GALILEE BAPTIST CHURCH

6300 WOODYARD ROAD, UPPER MARLBORO, MD 20772

ALTERNATES

PLEASE INCLUDE PRICE FOR ALL ALTERNATES SEPERATELY FROM BASE BIDS

ALTERNATE #1 - CANOPY EXTENSION

ALTERNATE #2 - INSTALL ALL UTILITIES AND WALLS AS INDICATED ON DRAWINGS BUT OTHERWISE SHELL KITCHEN SPACE. NO MILLWORK, SINKS, EQUIPMENT, HOOD, FINISHES ETC.

STATEMENT AND APPLICABLE BUILDING CODES

"THESE DRAWINGS AND SPECIFICATIONS ARE IN FULL COMPLIANCE WITH THE FIRE SAFETY PROVISIONS OF ALL ADOPTED STATE AND LOCAL BUILDING CODE, FIRE CODES, MECHANICAL CODES, LOCAL AMENDMENTS AND REFERENCED CODES AND STANDARDS TO THE BEST OF THEIR KNOWLEDGE AND BELIEF."

ALL WORK SHALL BE IN ACCORDANCE WITH ALL CURRENT CODES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

THE INTERNATIONAL BUILDING CODE, 2018 EDITION
THE INTERNATIONAL MECHANICAL CODE, 2018 EDITION
THE INTERNATIONAL ENERGY CONSERVATION CODE, 2018 EDITION
THE NATIONAL ELECTRICAL CODE, 2018 EDITION
2018 NATIONAL FIRE PROTECTION ASSOCIATION
MARYLAND ACCESSIBILITY CODE

TYPE OF WORK

NEW INDEPENDANT STRUCTURE:	YES
ALTERATION:	NO
ADDITION:	NO

CLIMATE ZONE
CLIMATE ZONE: 4A

NEW CHURCH BUILDING - SPRINKLERED
USE GROUP AND CONSTRUCTION TYPE

USE GROUP A-3, UNLIMITED AREA
CONSTRUCTION TYPE II-B

AREA TABULATION

ALLOWABLE AREA - UNLIMITED (PER 507.6 IBC)
1. BUILDING SHALL NOT HAVE A STAGE OTHER THAN A PLATFORM
2. BUILDING SHALL BE EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM
3. BUILDING SHALL BE SURROUNDED BY MIN 60' PUBLIC WAYS OR YARDS.

ACTUAL BUILDING	37,953 SQ. FT.
ACTUAL CANOPY-BASE BID	200 SQ. FT.
ACTUAL CANOPY-ALTERNATE	800 SQ. FT.
TOTAL ACTUAL	38,953 SQ. FT.

OCCUPANT LOAD VS EGRESS PROVIDED
TOTAL OCCUPANT LOAD: 1774
EGRESS PROVIDED: 3570

SPRINKLER REQUIREMENTS
A NEW FIRE SUPPRESSION SYSTEM WILL BE INSTALLED TO PROVIDE CODE COMPLIANT COVERAGE.

NOTE TO BUILDING PLANS EXAMINER

DESIGN AND INSTALLATION DOCUMENTS WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO INSTALLATION, AFTER A QUALIFIED FABRICATOR AND/OR CONTRACTOR HAS BEEN SELECTED FOR EACH OF THE FOLLOWING AREAS OF WORK.

1. FIRE PROTECTIVE SIGNALING SYSTEM AND AUTOMATED FIRE DETECTION SYSTEM.
2. PRE-ENGINEERED METAL BUILDING.
3. AUTOMATIC FIRE SUPPRESSION SYSTEM

SITE LOCATION MAP

The McKnight Group

GENERAL NOTES

GENERAL:

1. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE COMPLETE WORKING SYSTEMS FOR NEW ELEMENTS.
2. ALL CONTRACTORS SHALL PROVIDE NEW, UNDAMAGED MATERIALS UNLESS OTHERWISE SPECIFIED.
3. STORE MATERIALS IN SUCH A MANNER AS NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN UNSAFE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.
4. INSTALL ALL WORK IN ACCORDANCE WITH CURRENT APPLICABLE LOCAL, STATE AND NATIONAL CODES; PUBLISHED STANDARDS AND ACCEPTABLE CONSTRUCTION STANDARDS. ALL NEW WORK SHALL BE PLUMB AND LEVEL UNLESS NOTED OTHERWISE.
5. ALL FIRE RATED PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING FIRE-RATED PARTITIONS AROUND EQUIPMENT CABINETS AND OTHER ITEMS WHICH PENETRATE THESE PARTITIONS, AND SHALL BE RESPONSIBLE FOR FILLING ALL VOIDS IN FIRE-RATED PARTITIONS ABOVE CEILINGS TO MAINTAIN DESIGNATED FIRE-RATINGS.
6. ITEMS INDICATED N.I.C. ARE "NOT IN CONTRACT".
7. ALL DIMENSIONS ARE TO FACE OF STRUCTURE UNLESS NOTED OTHERWISE. I.E. FACE OF STUD, FACE OF CONCRETE BLOCK.
8. DISSIMILAR FINISH FLOOR MATERIALS SHALL MEET UNDER CENTER OF DOOR LEAF, UNLESS NOTED OTHERWISE.
9. TOP OF FLOOR DRAINS TO BE 1/2" BELOW FINISHED FLOOR ELEVATION UNLESS NOTED OTHERWISE. SLOPE FLOOR TO 3 FEET RADIUS IF NOT SPECIFIED OTHERWISE.
10. ALL BASES, INCLUDING CONCRETE PADS FOR MECHANICAL, PLUMBING, AND ELECTRICAL EQUIP. ARE THE RESPONSIBILITY OF THE TRADES INVOLVED UNLESS NOTED OTHERWISE.
11. SUB-CONTRACTOR SHALL DETERMINE ERECTION PROCEDURE AND SEQUENCE AND PROVIDE WHATEVER TEMPORARY BRACING, ETC. THAT MAY BE REQUIRED TO COMPLETE THE WORK.
12. VERIFY ALL ROUGH OPENINGS WITH MANUFACTURERS PRIOR TO FRAMING.
13. FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
14. FIELD VERIFY ALL EXISTING SITE DIMENSIONS PRIOR TO START OF CONSTRUCTION.
15. FIREBLOCKING SHALL BE INSTALLED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED OR STUDDED OFF SPACES OF MASONRY OR CONCRETE WALLS, AND AT THE CEILING AND FLOOR OR ROOF LEVELS. FIRESTOPPING SHALL BE INSTALLED AT ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS OVER CABINETS, DROP CEILINGS, COVE CEILINGS, ETC.
16. HANDRAILS, GUARDRAILS BALUSTERS AND NEWEL POSTS SHALL COMPLY WITH CURRENT LOCAL CODE.
17. SCHEDULE ALL SHUT DOWNS OF UTILITIES WITH THE OWNER IN ADVANCE AS SPECIFIED. PREPARE SITE BEFOREHAND TO MINIMIZE THE DURATION OF SHUT DOWN. COMBINE SHUT DOWNS WHERE POSSIBLE.
18. **DEFINITIONS:**
FURNISH - TO SUPPLY, PURCHASE, PROCURE, ACQUIRE, DELIVER TO SITE COMPLETE W/ RELATED ACCESSORIES AND TRANSFER TO OTHERS FOR INSTALLATION.
INSTALL - TO RECEIVE, UNLOAD, DISTRIBUTE, CONSTRUCT, ERECT, MOUNT, AND CONNECT COMPLETE W/ RELATED ACCESSORIES AND READY FOR SAFE AND REGULAR OPERATION AS APPLICABLE.
PROVIDE - TO FURNISH, INSTALL, AND PAY ALL COSTS IN CONNECTION THEREWITH.

DISCREPANCIES/ CLARIFICATIONS:

1. CONTRACTORS SHALL VERIFY ALL ELEVATIONS, DIMENSIONS AND EXISTING CONDITIONS PRIOR TO INITIATING CONSTRUCTION.
2. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. IF A REQUIRED DIMENSION IS NOT INDICATED, CONTACT THE ARCHITECT FOR DETERMINATION.
3. DETAILS ARE GENERALLY TYPICAL AND ARE NOT TO BE CONSTRUED AS LIMITED TO THOSE AREAS SPECIFICALLY INDICATED. REVIEW ANY QUESTIONS OR CONFLICTING INFORMATION WITH THE ARCHITECT PRIOR TO INSTALLATION.
4. WHERE A DISCREPANCY IS FOUND BETWEEN EXISTING FIELD CONDITIONS AND/OR BETWEEN ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, HVAC, OR ELECTRICAL CONTRACT DOCUMENTS, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING, FABRICATION OR INSTALLATION.

PREPARATION FOR NEW FINISHES:

1. BRING FLOOR SURFACES TO A SMOOTH, LEVEL SURFACE PRIOR TO INSTALLATION OF NEW FLOOR FINISHES. FILL ALL DEPRESSED AREAS WITH LIGHTWEIGHT CONCRETE FILL. USE UNDERLAYMENT TO FILL ALL CRACKS, JOINTS AND UNEVEN AREAS IN THE FLOOR. PRIOR TO INSTALLATION OF NEW FLOOR FINISH THE FLOOR SURFACE SHALL BE MADE FREE OF ALL BLEMISHES, UNEVENNESS THAT COULD TELEGRAPH THROUGH THE NEW FLOOR FINISH.
2. FILL ALL NEW VOIDS IN RATED PARTITIONS AND SMOKE PARTITIONS ABOVE CEILING AS REQUIRED TO MAINTAIN DESIGNATED FIRE RATING.

WOOD BLOCKING:

1. PROVIDE BLOCKING, AS REQUIRED, IN WALLS AND CEILINGS TO ANCHOR ALL WALL AND CEILING-MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO, MILLWORK/CASEWORK, WALL CABINETS, HANDRAILS, COAT RACKS, DOOR STOPS, OWNER EQUIPMENT, SHELVING, CUBICLE TRACK, FURNITURE, WINDOW COVERING TRACK, SCREENS, AND OTHER SIMILAR ITEMS INCLUDING ITEMS SPECIFIED N.I.C. OR BY OWNER.
2. ALL WOOD BLOCKING TO BE 2x4 (OR 1x6) MINIMUM FIRE RETARDANT TREATED LUMBER.

CEILING INSTALLATION:

1. ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.

COORDINATION OF TRADES:

1. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
2. FRAMING CONTRACTOR SHALL THICKEN WALLS AS REQUIRED TO ACCOMMODATE PLUMBING PIPES, ELECTRICAL PANEL BOXES, AND SIMILAR ITEMS. COORDINATE WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
3. EACH SUB-CONTRACTOR SHALL OBTAIN AND PAY FOR REQUIRED PERMITS, SCHEDULE REQUIRED INSPECTIONS, AND COORDINATE WITH ALL OTHER TRADES.

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TREE CONSERVATION PLAN TUPE 2
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FINAL GRADING, EROSION, AND SEDIMENT CONTROL PLAN FOR FINE GRADING
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AV-0.3 ELECTRICAL & GROUNDING COORDINATION
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COVER

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COMM. NO. 216118

OCCUPANT LOAD PER TABLE 1004.1.1 IBC

ROOM NUMBER	ROOM NAME	AREA	ROOM TYPE	OCCUPANT LOAD (PSF)	OCCUPANCY
100	VESTIBULE	601 SF	UNOCC.	0	0
101	FOYER	3321 SF	UNOCC.	0	0
102	SEATING	442 SF	A-3 (T&C)	15	30
103	SEATING	620 SF	A-3 (T&C)	15	41
104	BOOKSTORE	300 SF	B	100	3
105	SEC.	96 SF	B	100	1
106	JAN.	73 SF	UNOCC.	0	0
107	MED.	59 SF	B	100	1
108	T.	55 SF	UNOCC.	0	0
109	ST.	18 SF	107	300	0
110	CLASS	661 SF	E	20	(33)
111	CLASS	645 SF	E	20	(32)
112	ST.	16 SF	UNOCC.	300	0
113	VESTIBULE	81 SF	UNOCC.	0	0
114	CORRIDOR	666 SF	UNOCC.	0	0
115	RECEPTION	365 SF	B	100	4
116	OFFICE	151 SF	B	100	2
117	F.L. OFFICE	151 SF	B	100	2
118	R.	32 SF	UNOCC.	0	0
119	WK.	142 SF	B	100	1
120	CORRIDOR	292 SF	UNOCC.	0	0
121	T.	55 SF	UNOCC.	0	0
122	ST.	25 SF	UNOCC.	300	0
123	CORRIDOR	749 SF	UNOCC.	0	0
125	LOUNGE	134 SF	B	100	1
126	FIN. OFFICE	284 SF	B	100	3
127	PASTORS OFFICE	252 SF	B	100	3
128	T.	95 SF	UNOCC.	0	0
129	ST.	32 SF	UNOCC.	300	0
130	OFFICE	152 SF	B	100	2
131	CLASS / CONFERENCE	463 SF	E	20	23
132	GREEN ROOM	188 SF	B	100	2
133	ST.	40 SF	UNOCC.	300	0
134	T.	63 SF	UNOCC.	0	0
135	SIDE	330 SF	UNOCC.	300	1
136	PLATFORM	1800 SF	PLATFORM	15	120
137	SIDE	392 SF	UNOCC.	300	1
138	STORAGE	248 SF	UNOCC.	300	1
140	AUDITORIUM	8374 SF	A-3 (C)	7	1195
141	OPEN OFFICE	297 SF	E	20	(15)
142	TEMP. CLASS	249 SF	E	20	(12)
144	MEN	486 SF	UNOCC.	0	0
145	VESTIBULE	295 SF	UNOCC.	0	0
146	A.V.L.	367 SF	B	100	4
147	USHER	206 SF	B	100	2
148	SEC.	206 SF	B	100	2
149	A.V.L.	206 SF	B	100	2
150	VESTIBULE	295 SF	UNOCC.	0	0
151	TEMP. CLASS	271 SF	E	20	(14)
152	TEMP. CLASS	266 SF	E	20	(13)
153	WOMEN	493 SF	UNOCC.	0	0
154	JAN.	40 SF	UNOCC.	0	0
155	FAMILY RESTROOM	66 SF	UNOCC.	0	0
156	ELEM. CLASS	559 SF	E	20	(28)
157	ST.	162 SF	UNOCC.	300	1
158	YOUTH LOUNGE	729 SF	E	20	(36)
159	MEN	186 SF	UNOCC.	0	0
160	WOMEN	185 SF	UNOCC.	0	0
161	CRIBS	195 SF	UNOCC.	300	1
162	CORRIDOR	863 SF	UNOCC.	0	0
163	CRY / NRS.	153 SF	E	20	8
164	INFANTS	469 SF	E	20	(23)
165	T.	63 SF	UNOCC.	0	0
166	ST.	18 SF	UNOCC.	300	0
167	ST.	10 SF	UNOCC.	300	0
168	TODDLERS	474 SF	E	20	(24)
169	INFO AREA	470 SF	UNOCC.	0	0
170	CHECK-IN AREA	1174 SF	UNOCC.	0	0
171	PRESCHOOL THEATER	655 SF	E	15	44
171A	PLAT.	155 SF	PLATFORM	15	10
172	ST.	72 SF	UNOCC.	300	0
173	ST.	50 SF	UNOCC.	300	0
174	ELE.	121 SF	MECH	0	0
175	SPR.	72 SF	MECH	0	0
176	ST.	215 SF	UNOCC.	300	1
177	T.	46 SF	UNOCC.	0	0
178	ST.	14 SF	UNOCC.	300	0
179	PRESCHOOL	555 SF	E	20	(28)
180	COMMERCIAL KITCHEN	643 SF	KITCHEN	200	3
181	CAFE	171 SF	B	100	2
182	STORAGE	127 SF	UNOCC.	0	0
183	PANTRY	110 SF	UNOCC.	0	0
184	ROOF ACCESS	21 SF	UNOCC.	0	0

TOTAL OCCUPANCY 1774

PLUMBING FIXTURE COUNT: PER TABLE 2902.1 2018 IBC

TOTAL OCC LOAD FOR **A-3**:	1405	*# MEN = 703*	*# WOMEN = 703*
A-3 WATER CLOSETS REQUIRED		1 PER 150 703/150 = 4.68	1 PER 75 703/75 = 9.37
A-3 LAVATORIES REQUIRED		1 PER 200 703/200 = 3.52	1 PER 200 703/200 = 3.52
A-3 DRINKING FOUNTAINS REQUIRED		1 PER 1000 1405/1000 = 1.41	
TOTAL OCC LOAD FOR **B**:	37	*# MEN = 19*	*# WOMEN = 19*
B WATER CLOSETS REQUIRED		1 PER 25 FOR FIRST 50, THEN 1 PER 50 19/25 = 0.76	19/25 = 0.76
B LAVATORIES REQUIRED		1 PER 40 FOR FIRST 80, THEN 1 PER 80 19/40 = 0.48	19/40 = 0.48
B DRINKING FOUNTAINS REQUIRED		1 PER 100 37/100 = 0.37	
TOTAL OCC LOAD FOR **E**:	335	*# MEN = 168*	*# WOMEN = 168*
E WATER CLOSETS REQUIRED		1 PER 50 168/50 = 3.36	1 PER 50 168/50 = 3.36
E LAVATORIES REQUIRED		1 PER 50 168/50 = 3.36	1 PER 50 168/50 = 3.36
E DRINKING FOUNTAINS REQUIRED		1 PER 100 335/100 = 3.35	
TOTAL WATER CLOSETS REQD		4.68+.76+3.36=8.8=9	9.37+.76+3.36=13.49=14
WATER CLOSETS PROVIDED		9 WC + 8 UR = 17	16 WC
TOTAL LAVATORIES REQUIRED		3.52+0.48+3.36 =7.36 =8	3.52+0.48+3.36 = 7.36 =8
LAVATORIES PROVIDED		11	11
TOTAL DRINKING FOUNTAINS REQUIRED		1.41+0.37+3.35 = 5.13 = 6	
DRINKING FOUNTAINS PROVIDED		6 (3 HI-LOW DF)	
SERVICE SINK		1 REQUIRED, 2 PROVIDED	

REQUIREMENTS FOR INTERIOR FINISHES PER TABLE 803.11 & SECTION 803-804, 2018 IBC

A-3 OCCUPANCY, SPRINKLERED

CLASS B: = FLAME SPREAD INDEX 26-75; SMOKEDEVELOPED INDEX 0-450.
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKEDEVELOPED INDEX 0-450.

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS - B (C)

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS - B

ROOMS AND ENCLOSED SPACES - C

INTERIOR FLOOR FINISH REQUIREMENTS
INTERIOR FLOOR COVERING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE DOC FF-1 "PILL TEST" (CPSC 16 CFR PART 1630) OR WITH ASTM D2859.

IN ALL OCCUPANCIES, INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS IN ENCLOSURES FOR STAIRWAYS AND RAMPS, EXIT PASSAGEWAYS, CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM CORRIDORS BY PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX FOR CLASS II IN "A" USE GROUP

MATERIAL, OTHER THAN FOAM PLASTIC USED AS INTERIOR TRIM, SHALL HAVE A MINIMUM CLASS C FLAME SPREAD AND SMOKE-DEVELOPED INDEX WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723, AS DESCRIBED IN SECTION 803.1.1. COMBUSTIBLE TRIM. NOT TO EXCEED 10 PERCENT OF THE SPECIFIC WALL OR CEILING AREA TO WHICH IT IS ATTACHED.

CODE ANALYSIS SUMMARY - 2018 IBC

TYPE OF WORK
NEW INDEPENDANT STRUCTURE: YES
ALTERATION: NO
ADDITION: NO

NEW CHURCH BUILDING - SPRINKLERED
USE GROUP AND CONSTRUCTION TYPE

USE GROUP A-3, UNLIMITED AREA
CONSTRUCTION TYPE II-B

AREA TABULATION

ALLOWABLE AREA - UNLIMITED (PER 507.6 IBC)
1. BUILDING SHALL NOT HAVE A STAGE OTHER THAN A PLATFORM
2. BUILDING SHALL BE EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM
3. BUILDING SHALL BE SURROUNDED BY MIN 60' PUBLIC WAYS OR YARDS.

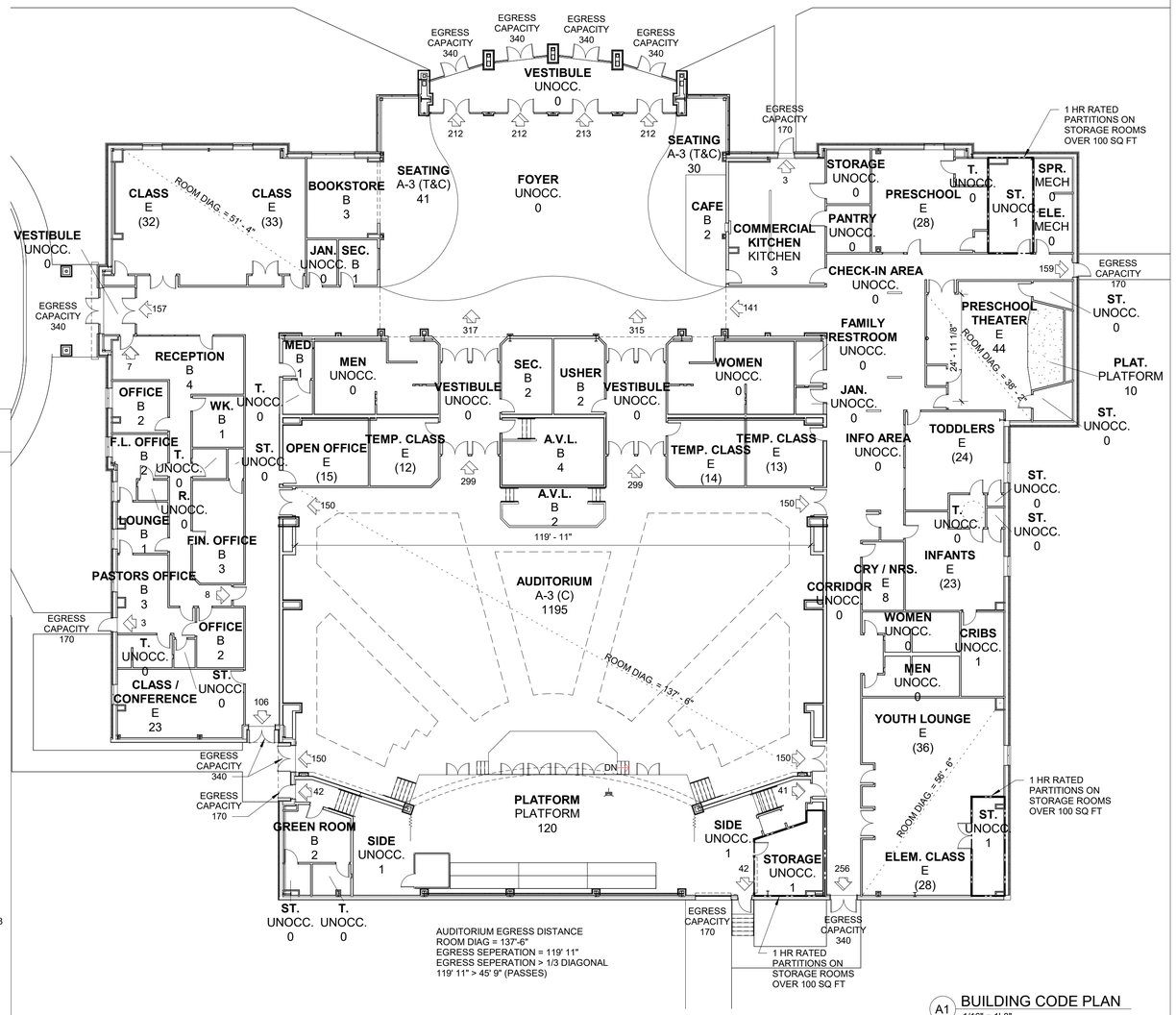
ACTUAL BUILDING	37,953 SQ. FT.
ACTUAL CANOPY-BASE BID	200 SQ. FT.
ACTUAL CANOPY-ALTERNATE	800 SQ. FT.
TOTAL ACTUAL	38,953 SQ. FT.

ALLOWABLE HEIGHT = 75'-0" ; 3 STORIES
ACTUAL HEIGHT = 42'-8" ; 1 STORY

OCCUPANT LOAD VS EGRESS PROVIDED
TOTAL OCCUPANT LOAD: 1774
EGRESS PROVIDED: 3570

SPRINKLER REQUIREMENTS
A NEW FIRE SUPPRESSION SYSTEM COMPLIANT WITH NFPA 13 WILL BE INSTALLED SEE "FP" SHEETS FOR MORE INFORMATION ON THE PROPOSED SYSTEM.

A VOICE ANNUNCIATED FIRE ALARM SYSTEM WILL BE INSTALLED.



A1 BUILDING CODE PLAN
1/16" = 1'-0"

The McKnight Group
Leaders in Innovative Church Design and Building

McKnight & Hosterman Architects, Inc.
3351 McDowell Road
P.O. Box 370
Grove City, Ohio 43123
Phone: (614) 875-1655
Fax: (614) 875-7006
www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
DD MEETING #2	09/10/2019
DD MEETING #3	10/06/2023
BID SET	11/15/2023
[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

REVISIONS/ADDENDUMS

BUILDING CODE

BC-1
OF SHEETS

216118

5 4 3 2 1
D C B A

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS
- PMA — PRIMARY MANAGEMENT AREA (PMA)
- FP — 100-YEAR FLOODPLAIN
- WL — WETLAND
- WB — WETLAND BUFFER
- REGULATED STREAM
- SB — STREAM BUFFER
- EPHEMERAL STREAM
- EXISTING TREELINE
- FOREST STAND BOUNDARY
- SOIL — SOILS BOUNDARY
- STEEP SLOPES
- P1 — FSD DATA SAMPLE POINT
- WETLAND DATA SAMPLE POINT
- ST- 1 — SPECIMEN TREE WITH ROOTZONE

Specimen Trees

Tree #	Common Name	Latin Name	Diameter at Breast Height (DBH)	Condition Rating	Condition	Comments
1	Yellow Poplar	*Liriodendron tulipifera*	34	72	Fair	Root, trunk & top damage; poor branching; dieback, decay
2	Red Maple	*Acer rubrum*	33	84	Good	Trunk & top damage, poor branching, needs pruning
3	Sycamore	*Platanus occidentalis*	33	72	Fair	Root, trunk & top damage; poor branching; dieback, decay, cavities
4	Sycamore	*Platanus occidentalis*	32	78	Fair	Root, trunk & top damage; poor branching; dieback, decay, cavities
5	Sycamore	*Platanus occidentalis*	31	72	Fair	Trunk & top damage, poor branching, needs pruning; likely cavities upper trunk
6	Yellow Poplar	*Liriodendron tulipifera*	31	84	Good	Trunk & top damage, dieback
7	Red Maple	*Acer rubrum*	37	56	Poor	Root, trunk & top damage, decay, dieback, poor branching
8	Yellow Poplar	*Liriodendron tulipifera*	31	78	Fair	Trunk & top damage, needs pruning, decay, dieback
9	Yellow Poplar	*Liriodendron tulipifera*	37	78	Fair	Trunk & top damage, needs pruning, decay, dieback
10	Yellow Poplar	*Liriodendron tulipifera*	33	91	Excellent	Top damage, dieback, needs pruning
11	Yellow Poplar	*Liriodendron tulipifera*	36	84	Good	Top damage, dieback, needs pruning, poor branching
12	Yellow Poplar	*Liriodendron tulipifera*	62	53	Poor	Root, trunk & top damage, decay, cavities, poor branching, dieback
13	Yellow Poplar	*Liriodendron tulipifera*	39	69	Poor	Trunk & top damage, cavities, decay, dieback, poor branching, vines in top
14	Southern Red Oak	*Quercus falcata*	35	72	Fair	Trunk & top damage, decay, poor branching, dieback, need pruning
15	Yellow Poplar	*Liriodendron tulipifera*	35	84	Good	Trunk & top damage, decay, dieback
16	Yellow Poplar	*Liriodendron tulipifera*	33	84	Good	Trunk & top damage, decay, dieback
17	Sycamore	*Platanus occidentalis*	35	84	Good	Trunk & top damage, decay, dieback
18	Sycamore	*Platanus occidentalis*	34	78	Fair	Roots exposed, trunk & top damage, decay, needs pruning, dieback
19	Sycamore	*Platanus occidentalis*	33	84	Good	Roots exposed & damaged, top damage, decay, needs pruning, dieback

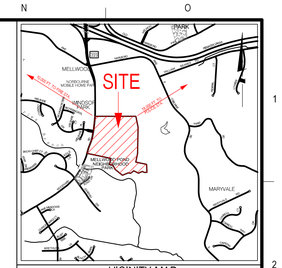
*Trees denoted with an asterisk were found off-site within 100-foot of the property boundary.

Web Soils Survey Soils Table

Map Unit	Map Unit Name	K-Factor	Hydrologic Group	Hydric Rating	Drainage Class
DfB	Dodon fine sandy loam, 2-5% slopes	0.24	C	No (0)	Moderately well drained
HgB*	Hoghole-Grosstown complex, 0-5% slopes	0.02	A	No (0)	Well drained
MnB	Marr-Dodon complex, 2-5% slopes	0.20	B	No (0)	Well drained
MnC	Marr-Dodon complex, 5-10% slopes	0.20	C	No (0)	Well drained
MnD	Marr-Dodon complex, 10-15% slopes	0.20	C	No (0)	Well drained
MnE	Marr-Dodon complex, 15-25% slopes	0.20	B	No (0)	Well drained
MoB	Marr-Dodon-Urban land complex, 0-5% slopes	0.20	B	No (0)	Well drained
WDF	Westphalia and Dodon soils, 25-40% slopes	0.17	C	No (0)	Well drained
WE	Widewater and Issue soils, frequently flooded	0.37	C/D	Hydric (60)	Poorly drained

Taken from: USDA, NRCS, Web Soil Survey (WSS) available online at http://websoilsurvey.nrcs.usda.gov

*Soils designated with an asterisk are found off-site but within the 100-foot buffer of the property boundary.



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

1. THIS SITE IS ZONED R-A AND IS LOCATED IN THE ENVIRONMENTAL STRATEGY AREA (ESA) 2 OF PLAN PRINCE GEORGE'S 2035 (FORMERLY DEVELOPING TIER).
2. THE SOURCE OF THE PROPERTY BOUNDARIES ON THIS PLAN IS FROM FIELD RUN BOUNDARY IN FEBRUARY 2016.
3. THE TOPOGRAPHY SHOWN ON THIS PLAN IS FROM AERIAL FLOWN TOPO IN JANUARY 2016.
4. THE SOURCE OF THE SOILS INFORMATION ON THIS PLAN IS FROM THE USDA NRCS WEB SOIL SURVEY (WSS) IN A CUSTOM SOIL RESOURCE REPORT FOR AN AREA OF INTEREST (AOI) ESTABLISHED FOR THE SUBJECT SITE ONLY AND GENERATED ON JANUARY 23, 2016.
5. THE COUNTY REGULATED 100-YEAR FLOODPLAIN INFORMATION ON THIS PLAN IS FROM COUNTY WATERSHED STUDY "CHARLES BRANCH" PLATE B/2.
6. THE WETLAND AND STREAM INFORMATION ON THIS PLAN IS FROM A STUDY PREPARED BY HENRY LESKINEN IN A STUDY DATED FEBRUARY 22, 2016.
7. THIS SITE DOES NOT CONTAIN WETLANDS OF SPECIAL STATE CONCERN AS DEFINED IN COMAR 26.23.06.01.
8. THIS SITE DOES NOT CONTAIN A TIER II WATERBODY AS DEFINED IN COMAR 26.08.02.04.
9. THIS SITE IS LOCATED WITHIN A STRONGHOLD WATERSHED AS ESTABLISHED BY THE MD DNR.
10. THIS SITE IS NOT WITHIN A SENSITIVE SPECIES PROTECTION REVIEW AREA BASED ON A REVIEW OF THE SSPRA GIS LAYER PREPARED BY THE HERITAGE AND WILDLIFE SERVICE, MARYLAND DEPARTMENT OF NATURAL RESOURCES. IN A LETTER DATED JANUARY 23, 2016 THE MARYLAND DEPARTMENT OF NATURAL RESOURCES NATURAL HERITAGE AND WILDLIFE SERVICE ADDITIONAL INFORMATION WAS REQUESTED AND WILL BE PROVIDED TO MNCPPC UPON RECEIPT.
11. THE SITE DOES INCLUDE FOREST INTERIOR DWELLING SPECIES HABITAT.
12. THE SITE IS NOT SUBJECT TO A PREVIOUSLY APPROVED TCP. A PREVIOUS DEVELOPMENT CASE, SE-4553 IS CLASSIFIED AS BEING DORMANT AND TCP1-059-06 WAS APPARENTLY SUBMITTED WITH THAT APPLICATION.
13. THERE ARE NINETEEN (19) SPECIMEN, CHAMPION AND/OR HISTORIC TREES LOCATED ON THE PROPERTY. THESE TREES WERE LOCATED USING GPS AND HIGH RESOLUTION AERIAL PHOTOS.
14. THE SITE ABUTS WOODYARD ROAD (MD-223), A DESIGNATED HISTORIC ROAD LOCATED ALONG THE WESTERN BOUNDARY OF THE PROPERTY.
15. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A REGISTERED HISTORIC DISTRICT.
16. THERE ARE NO KNOWN ARCHEOLOGICAL SITES LOCATED ON THE SUBJECT PROPERTY; HOWEVER, THE SUBJECT PROPERTY HAS NOT BEEN SURVEYED FOR ARCHEOLOGICAL RESOURCES AND A PHASE I ARCHEOLOGY REPORT MAY BE REQUIRED DURING SUBSEQUENT DEVELOPMENT REVIEW PROCESSES.
17. MARLBORO CLAY AND CHRISTIANA COMPLEX ARE NOT FOUND TO OCCUR ON OR WITHIN THE VICINITY OF THIS PROPERTY.
18. THE SITE ABUTS WOODYARD ROAD (MD-223), A MASTER PLANNED ARTERIAL ROADWAY THAT IS REGULATED FOR NOISE. A NOISE STUDY MAY BE REQUIRED DURING SUBSEQUENT DEVELOPMENT REVIEW PROCESSES.
19. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN THE 2008 AIR INSTALLATION COMPATIBLE USE ZONE (AICUZ) STUDY FOR ANDREWS AIR FORCE BASE.
20. THE SITE IS NOT LOCATED WITHIN AN AVIATION POLICY AREA (APA).
21. THE SITE IS NOT LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA (CBCA).
22. THE PROPERTY IS NOT LOCATED WITHIN THE MOUNT VERNON VIEWSHED AREA OF PRIMARY CONCERN.
23. AN APPROVED NRI IS VALID FOR FIVE YEARS FROM THE DATE OF SIGNATURE BY STAFF, OR UNTIL INFORMATION USED TO PREPARE THE NRI CHANGES. NRIS WILL BE REQUIRED TO BE REVISED AND RE-APPROVED IF THE BASE INFORMATION CHANGES SIGNIFICANTLY. APPROVAL OF THIS NRI IN NO WAY IMPARTS ANY OTHER DEVELOPMENT APPLICATION APPROVALS.

SITE STATISTICS TABLE		WOODLAND STAND ACREAGES	
GROSS TRACT AREA	49.97 AC	STAND A	0.89 AC
EXISTING 100-YEAR FLOODPLAIN	4.42 AC	STAND B	16.12 AC
NET TRACT AREA	45.55 AC	STAND C	10.27 AC
EXISTING WOODLAND IN THE FLOODPLAIN	3.38 AC	STAND D	2.76 AC
EXISTING WOODLAND NET TRACT	31.11 AC	STAND E	1.22 AC
EXISTING WOODLAND TOTAL	34.49 AC	STAND F	3.23 AC
EXISTING PMA	12.55 AC	TOTAL WOODLAND	34.49 AC
REGULATED STREAMS	5459 LF	OPEN LAND	15.48 AC
(LINEAR FEET OF CENTERLINE)		TOTAL AREA	49.97 AC

	STAND A	STAND B	STAND C	STAND D	STAND E	STAND F
1	Dominant species	Sweetgum, Bradford Pear	Yellow Poplar, Sweetgum, Red Maple	Yellow Poplar, Sweetgum, Sycamore	River Birch	Loblolly Pine, Virginia Pine, Sweetgum	Yellow Poplar, Sweetgum, Red Maple
1	Codominant species	Ash	Black Locust; Black Cherry; Virginia Pine, Beech	Red Maple, Black Walnut	Loblolly Pine	Red Cedar	Black Cherry, Sassafras
2	Forest Association	87 -Sweetgum - Yellow Poplar	87 -Sweetgum - Yellow Poplar	57 - Yellow Poplar	61 - River Birch - Sycamore	81 - Loblolly Pine	87 -Sweetgum - Yellow Poplar
3	Successional Stage	Early Succession Hardwood	Immature Mixed Hardwood	Immature Mixed Hardwood	Early Succession Hardwood	Immature Hardwood	Immature Hardwood
4	Basal area in s.f. per acre	45	168	115	45	50	70
5	Size class of dominant species	2-6 Inches	12-20 Inches	20-30 Inches	2-6 Inches	2-6 Inches	12-20 Inches
6	Percent canopy coverage	65%	73%	84%	100%	45%	50%
7	Number of Tree Species	3	7	5	2	4	5
8	Common understory species	Sweetgum, Red Maple, Red Cedar, Ash	Sweetgum, Red Maple, Beech, Black Locust, Dogwood, Boxelder; Spicebush	Spicebush, Boxelder, Beech, Holly	River Birch, Sweetgum	Yellow Poplar, Sweetgum, Red Maple, Red Cedar	Boxelder
9	Percent of understory cover - 3' to 20' tall	20%	27%	40%	30%	55%	15%
10	Number of woody plant species - 3' to 20' tall	2	2	2	2	3	1
11	Common herbaceous species	Blackberry, Greenbrier, Wild strawberry, Wild Onion, Grape	Spicebush, Beech, Sweetgum, Holly, Dogwood, Boxelder, Blackberry, Greenbrier, Wild Onion, Chickweed, assorted grasses	Spicebush, Holly, Greenbrier, Wild Onion, Beech, assorted ferns	Sweetgum, River Birch, Holly, Greenbrier, Wild Onion	Yellow Poplar, Sweetgum, Red Maple, Sycamore, Blackberry, Greenbrier, assorted grasses	Boxelder, Wild Onion, Chickweed, Greenbrier, Grape
12	Percent herbaceous plant coverage - 0' to 3' tall	25%	68%	80%	15%	90%	85%
13	List of major invasive plant species and percent of coverage	Overstory: 65% Bradford Pear	0% None	0% None	0% None	0% None 13% Bradford Pear	0% None
		Understory: 33% Bradford Pear	0% None	0% None	0% None	5% Bradford Pear	Japanese Honeysuckle, 40% Multiflora Rose
		Herbaceous: 5% Japanese Honeysuckle	Japanese Honeysuckle, Japanese 40% Barberry	Japanese Honeysuckle, Japanese 18% Barberry, Japanese Stilt Grass	5% Japanese Honeysuckle	0	0
14	Number of standing dead trees 6" dbh or greater	0	0	2	0	Natural Regeneration - just meets definition of woodland some scattered invasive species	Disturbed area, many trees down or tops broken by grape vines
15	Comments	Old field natural regeneration - mostly invasive species	Some scattered areas with heavy Grape vine	0	Some Beaver damage to scattered trees	350	240
	Number of trees per acre	570	265	205	550	3.0 "	11.1 "
	Average Diameter at Breast Height (DBH)	2.7 "	12.0 "	16.5 "	2.0 "		

QUALIFIED PROFESSIONAL CERTIFICATION

THIS NRI COMPLIES WITH THE CURRENT REQUIREMENTS OF THE PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL NAMUAL

SIGNED: DATE: 2/2/2024

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
NATURAL RESOURCES INVENTORY PLAN APPROVAL
NRI-

	APPROVED BY	DATE	REASON FOR REVISION
00			N/A
01			
02			
03			
04			
05			
06			

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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: BCG | TECHNICIAN: BCG | CHECKED: DJB

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767 GRID J2
TAX MAP 100-B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 208SE09 | XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88 | XXXX:

STATE OF MARYLAND — DONALD JOHN WORTH — No. 21760 — LANDSCAPE ARCHITECT
2/2/2024

NATURAL RESOURCE INVENTORY

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 100'
SHEET 1 OF 3
C-1
PROJECT NO. 1404-06-00

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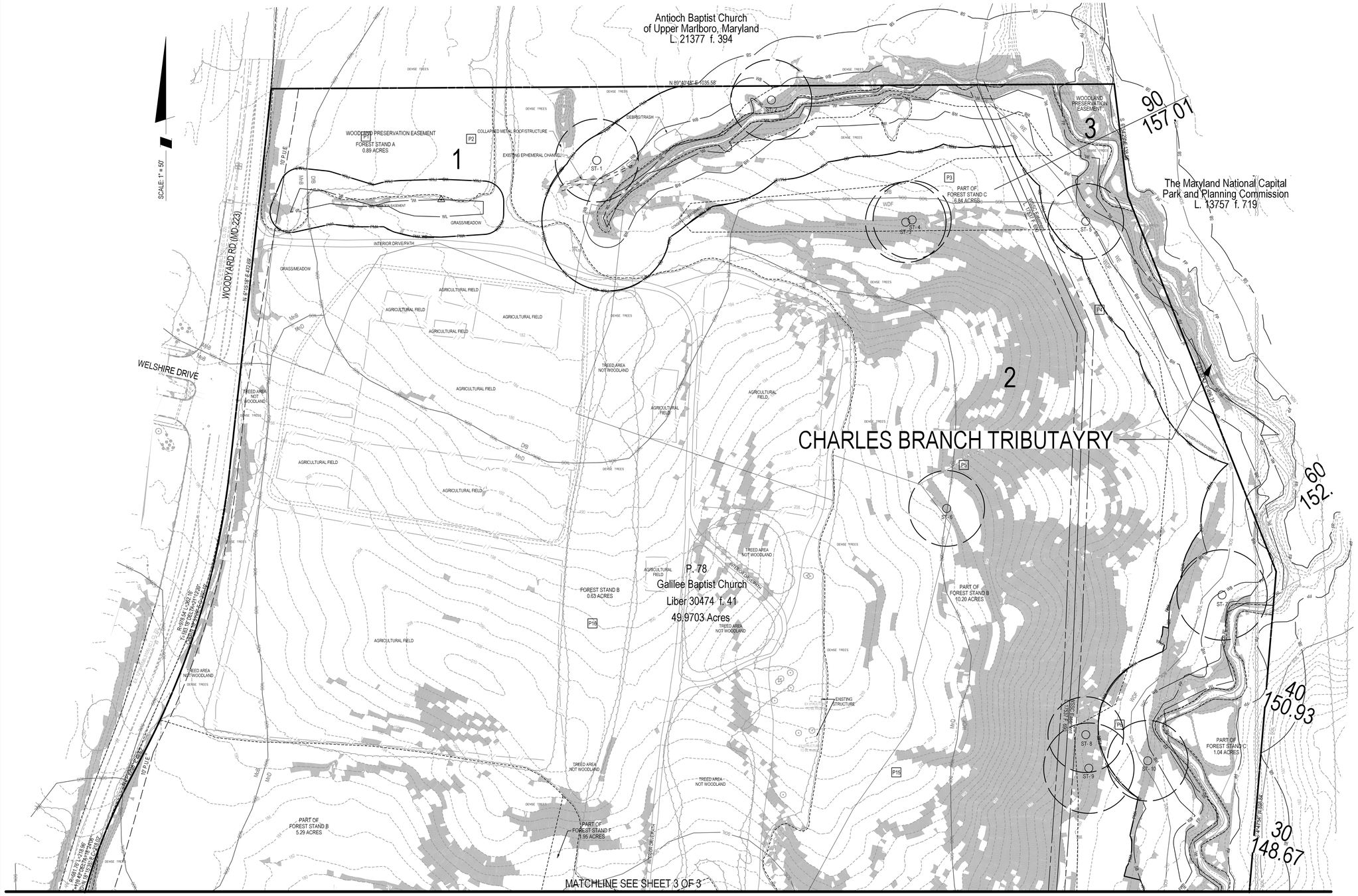

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS
- PMA — PMA — PRIMARY MANAGEMENT AREA (PMA)
- FP — 100-YEAR FLOODPLAIN
- WL — WETLAND
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STATE OF MARYLAND · JOHN JOHNSTON · NO. 3210 · LANDSCAPE ARCHITECT

NATURAL RESOURCE INVENTORY

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

C-2

SHEET 2 OF 3

PROJECT NO. 1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O

MATCHLINE SEE SHEET 2 OF 3

WOODYARD RD (MD 223)

PART OF FOREST STAND B 5.29 ACRES

PART OF FOREST STAND B 10.20 ACRES

WOODLAND PRESERVATION EASEMENT

FOREST STAND F 1.26 ACRES

PART OF FOREST STAND F 1.95 ACRES

PART OF FOREST STAND C 6.64 ACRES

PART OF FOREST STAND C 1.04 ACRES

FOREST STAND C 7.84 ACRES

FOREST STAND E 6 ACRES

FOREST STAND D 2.76 ACRES

EXISTING STRUCTURE

GRASS/MEADOW

AGRICULTURAL FIELD

FLOOD PLAIN EASEMENT

10' P.U.E

N 89°22'47" W 736.18'

Thomas H. Wilson, Jr. and Shirley V. Wilson L. 10045 f. 710

The Maryland National Capital Park and Planning Commission L. 13757 f. 719

P. 76
Galilee Baptist Church
Liber 30474 f. 41

S 89°30'02" E 636.49'

S 42°42'43" E 222.33'

SCALE: 1" = 50'

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DESIGNED: BCG | TECHNICIAN: BCG | CHECKED: DJB

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767 GRID J2
TAX MAP 100.B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 208SE09 | XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88 | XXXX:

STATE OF MARYLAND · DONALD JOHN GRIMM · No. 2016 · LANDSCAPE ARCHITECT

NATURAL RESOURCE INVENTORY

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

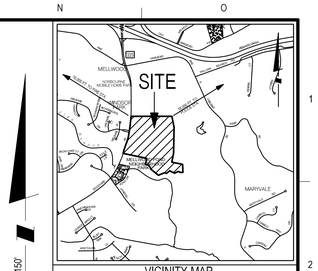
1" = 50'
C-3
SHEET 3 OF 3
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\ENV\NRI_FSD_03.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:50:44 PM

GALILEE BAPTIST CHURCH

PRELIMINARY PLAN OF SUBDIVISION PPS-4-23023

MELWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

SCALE: 1" = 150'

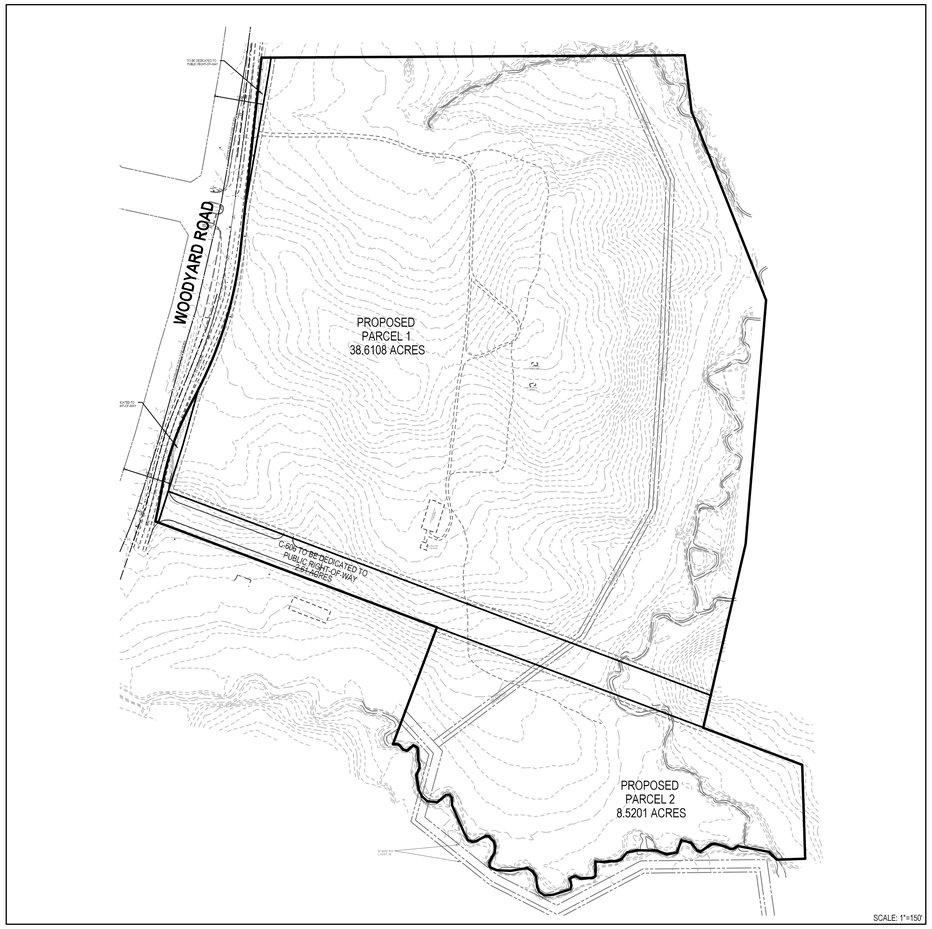
LEGEND

- BOUNDARY LINE
- EXISTING CONTOURS
- EXISTING SEWER
- EASEMENT
- PROPOSED LOT LINE
- PROPOSED CONTOURS
- PROPOSED STORM DRAIN
- PROPOSED WATER LINE
- PROPOSED SEWER LINE

GENERAL NOTES:

1. EXISTING: 2 PARCELS, P. 76 (L.30474/F.41) & P.78 (L.30474/F.41)
2. TAX MAP: 100, GRIDS A-4, B-3, AND B-4,
   GRID: B4
3. WSSC 200 FT REF: 208SE09 & 209SE09, AND 209SE10
4. PURPOSE OF SUBDIVISON: TWO PARCELS FOR INSTITUTIONAL USE, PLACE OF WORSHIP
   GFA EXISTING: 2,750 SF
   GFA TO BE RAZED: 2,750 SF
   GFA PROPOSED: 38,988 SF
5. PRIOR APPROVALS: NONE
6. GROSS ACREAGE: 49.97 AC.+/- R-A
   NET ACREAGE: 45.57 AC. R-A
7. NET DEVELOPABLE OUTSIDE OF PMA: 49.97 AC.+/-
8. ENVIRONMENTAL REGULATED FEATURES: AC.+/-
9. 100 YEAR FLOODPLAIN: 4.42AC.+/-
10. ROAD DEDICATION: 0.9876 ACRES DEDICATED
11. EXISTING ZONING: PRIOR: RESIDENTIAL- AGRICULTURAL (R-A)
    CURRENT: AGRICULTURAL- RESIDENTIAL (AR)
    PPS IS TO BE REVIEWED UNDER THE PRIOR ZONING ORDINANCE AND SUBDIVISION REGULATIONS
    SECTOR PLAN: NONE
12. EXISTING USE: AGRICULTURAL
    PROPOSED USE: PLACE OF WORSHIP
    PROPOSED NUMBER OF LOTS: 0 LOTS
    PROPOSED NUMBER OF PARCELS: 2 PARCELs
    PROPOSED PARCEL 1: 38.4283 AC
    PROPOSED PARCEL 2: 8.5156 AC
    PROPOSED NUMBER OF OUTLOTS: 0 OUTLOT
13. PROPOSED DWELLING UNIT BY TYPE: N/A
14. DENSITY CALCULATION: N/A
15. MINIMUM LOT SIZE REQUIRED: 87,120 SQ.FT.
16. MINIMUM LOT WIDTH AT:
    FRONT BLDG LINE: 150 FT.
    FRONT STREET LINE: 25 FT.
17. SUSTAINABLE GROWTH TIER: YES, TIER 1
18. MILITARY INSTALLATION OVERLAY ZONE: IMAGINARY RUNWAY SURFACE HEIGHT ZONES E, RIGHT RUNWAY
19. CENTER OR CORRIDOR LOCATION: NO
20. EXISTING GROSS FLOOR AREA TO REMAIN: 0 SF
    PROPOSED GROSS FLOOR AREA: 38,988 SF
21. STORMWATER MANAGEMENT CONCEPT #29538-2016-00 AND APPROVAL DATE: AUGUST 6, 2021
22. EXISTING WATER/SEWER DESIGNATION: WATER AND SEWER CATEGORY 4
    PROPOSED WATER/SEWER DESIGNATION: W-3 & S-3
23. AVIATION POLICY AREA: N/A
24. THIS APPLICATION IS EXEMPT FROM MANDATORY PARK DEDICATION BECAUSE NON-RESIDENTIAL DEVELOPMENT IS PROPOSED.
25. NO CEMETERIES EXIST ON OR CONTIGUOUS TO PROPERTY.
26. NO HISTORIC SITES ON OR IN THE VICINITY OF THE PROPERTY.
27. TYPE ONE CONSERVATION PLAN: YES, TCPI-
28. SITE IS NOT WITHIN CHESAPEAKE BAY CRITICAL AREA
29. THERE ARE WETLANDS PRESENT ON SITE.
30. APPROXIMATELY 5459 LF OF STREAM IS PRESENT ON SITE.
31. NOT ADJACENT TO AN EASEMENT HELD BY THE MARYLAND ENVIRONMENTAL TRUST, THE MARYLAND AGRICULTURAL LAND PRESERVATION FOUNDATION, OR ANY TRUST ORGANIZATION.

F.A.R. CALCULATIONS	
SITE AREA: 49.97 AC. x 43,560 SF=2,176,963 S.F.	
F.A.R. PROPOSED	
PROPOSED	38,988 S.F. (0.02 F.A.R.)
TOTAL	38,988 S.F. (0.02 F.A.R.)



SCALE: 1"=150'

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SOLTESZ, LLC

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Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656

www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: DJB | TECHNICIAN: DJB | CHECKED: DJB

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

COVER SHEET

PRELIMINARY PLAN OF SUBDIVISION
4-23023

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 150'

SHEET 1 OF 3

C-4

PROJECT NO.
1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O

SCALE: 1" = 50'

PARCEL 6
ANTIOCH BAPT. CHURCH
5800 WOODYARD ROAD
20271994
ZONED: R-C-TRMF-48
USE: AGRICULTURAL

)E TO BE DEDICATED TO
'UBLIC RIGHT-OF-WAY
0.1036 ACRES

120'

CENTERLINE OF THE FUTURE 120' ROW

WOODYARD ROAD (MD 223)
(VARIABLE WIDTH R/W)

N 89°40'48" E 1035.58'

EXISTING FARM ROAD

EXISTING EPHEMERAL CHANNEL

ST-1 ST-2 ST-3 ST-4 ST-5 ST-6 ST-7 ST-8 ST-9 ST-10

WELSHIRE DRIVE
(VARIABLE WIDTH R/W)

PROP. WSSC ESMT

PROP. R/W

EXISTING FARM ROAD

PROPOSED
PARCEL 1
38.6108 AC.

EX. PARCEL 78
GALILEE BAPTIST CHURCH
41.4539 ACRES
L.30474 F.41
ZONE: R-A/AR
USE: AGRICULTURAL

MBR-1 MBR-2 MBR-3 MBR-4 MBR-5 MBR-6 MBR-7 MBR-8 MBR-9 MBR-10 MBR-11 MBR-12 MBR-13

WSSC EASEMENT
L.7257 F.181

S 47°54' E 585.81'

PARCEL 75
DAVIDH
MARLBORO PIKE
12577115
ZONED: R-A/AR
USE: PARKS AND OPEN SPACE

S 47°54' W 588.64'

EX. STRUCTURE TO REMAIN

EX. STRUCTURE TO REMOVE

EX. WSSC EASEMENT

)E DEDICATED TO
.IC RIGHT-OF-WAY
0.1252 ACRES

R=978.64' L=238.95'
T=120.00' Δ=14°00'00"
CH=N 83°08'15" E 238.40'

R=978.64' L=238.95'
T=120.00' Δ=14°00'00"
CH=N 83°08'15" E 238.40'

MATCHLINE SEE SHEET 3 OF 3
MATCHLINE SEE SHEET 2 OF 3

50 25 0 50 100

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SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

PRELIMINARY PLAN OF SUBDIVISION
4-23023

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50

C-5

SHEET 2 OF 3

PROJECT NO. 1404-06-00

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MATCHLINE SEE SHEET 3 OF 3

MATCHLINE SEE SHEET 2 OF 3

120'

R=981.70'
L=46.58'
CH=N 77°22'40" E
CH=46.58'

C-606 MASTER PLANNED RIGHT-OF-WAY
TO BE DEDICATED TO
PUBLIC RIGHT-OF-WAY (80' R/W)
2.6105 ACRES

10' P.U.E.

416.24'
S89°22'40.1"E

411.21'
S89°22'40.1"E

733.42'
S89°22'40.1"E

N 89°22'40" W 730.18'

726.22'
N89°22'40.1"W

LOT 1
WILSON, GLORIA
F.6896/309
ZONED R-A/AR
USE: RESIDENTIAL

EX. SEWER TO REMAIN

686.77'
S89°22'13.76"E

686.49'
S89°22'13.76"E

10' P.U.E.

N 89°22'13" E 686.49'

PROPOSED
PARCEL 2
8.5201 AC.

EX. PARCEL 76
GALILEE BAPTIST CHURCH
8.5157 ACRES
L.30474 F.41
ZONE: R-A/AR
USE: AGRICULTURAL

PARCEL 59
KLEINER DARDO
F.29041/19
ZONED R-A/AR
USE: AGRICULTURAL

PARCEL 75
MNCPPC
MARLBORO PIKE
13975/7/19
ZONED R-A/AR
USE: PARKS AND OPEN SPACE

CHARLES BRANCH

S 2°46'06" W 497.45'

S 86°30'02" E 258.49'

S 84°56'36" W 8.64'
N 79°20'48" W 4.43'
N 38°04'26" W 18.29'
N 79°12'00" W 6.77'
N 54°40'27" W 7.61'
S 52°03'00" W 20.61'

S 5°29'37" W 27.62'
N 17°29'24" W 12.32'
N 0°00'00" E 8.89'

N 24°52'47" W 18.55'
N 47°40'57" W 18.20'
S 85°43'53" W 5.04'
N 84°39'39" W 24.86'
S 48°57'27" W 27.48'

N 27°49'11" W 19.03'
S 81°06'43" W 9.94'
N 87°51'55" W 26.47'
N 61°40'02" W 11.37'
S 61°20'13" W 26.47'

N 7°46'49" W 11.88'
N 66°49'49" W 18.62'
S 50°19'22" W 41.58'
N 87°31'36" W 33.99'

N 32°50'13" W 16.03'
N 85°13'13" W 16.39'
S 85°04'26" W 20.61'

S 69°43'47" W 12.21'
S 88°14'54" W 57.62'
S 83°51'34" W 14.39'
N 85°56'39" W 19.58'
S 0°01'50" W 35.38'
N 65°03'05" W 43.32'
S 78°41'15" W 8.72'
S 53°09'56" W 7.31'
S 87°43'43" W 30.09'
S 56°24'09" W 6.52'

N 89°04'33" W 47.08'
N 76°30'45" W 25.57'
N 76°25'31" W 24.19'
N 38°11'02" W 23.88'
S 55°43'14" W 31.83'
N 65°08'00" W 13.82'
S 88°27'53" W 5.82'
S 82°34'53" W 11.32'
S 56°47'51" W 12.79'
N 74°07'21" W 23.81'
N 79°11'32" W 72.14'
N 76°25'25" W 27.81'
N 85°49'06" W 30.02'
S 87°58'51" W 70.00'
S 76°49'05" W 24.36'
S 85°49'06" E 23.02'
N 4°30'00" W 29.31'
S 18°22'23" W 23.81'

ST- 11
ST- 12
ST- 13
ST- 14
ST- 15
ST- 16
ST- 17
ST- 18
ST- 19

30' WSSC R/W
L. 4376 F. 69

POTOMA
USE: TRA

SCALE: 1" =50'

50 25 0 50 100

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SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

PRELIMINARY PLAN OF SUBDIVISION
4-23023

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

SHEET 3 OF 3

C-6

PROJECT NO.
14040600

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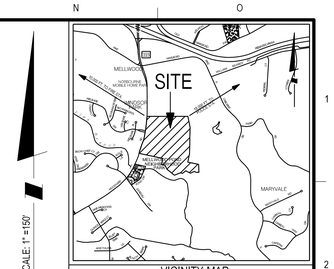
GALILEE BAPTIST CHURCH

TREE CONSERVATION PLAN -TYPE I

MELWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- STREAM
- STREAM BUFFER (SB)
- EXISTING FLOODPLAIN (FP)
- WETLAND (WL)
- WETLAND BUFFER (WB)
- PRIMARY MANAGEMENT AREA (PMA)
- LIMIT OF DISTURBANCE (LOD)
- EXISTING TREELINE
- EXISTING WATER LINE (EX W)
- PROPOSED WATER LINE (PR W)
- EXISTING SEWER LINE (EX S)
- PROPOSED SEWER LINE (PR S)
- EXISTING/PROPOSED WATER/SEWER EASEMENT (EASEMENT LABEL)
- SPECIMEN TREE WITH CRITICAL ROOT ZONE (ST 8)
- STEEP SLOPES 15-25% & GREATER
- STEEP SLOPES 25% & GREATER
- WOODLAND PRESERVATION AREA
- REFORESTATION AREA

GENERAL NOTES:

1. THIS PLAN IS CONCEPTUAL IN NATURE AND IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR PPS-4-23023. IF PPS-4-23023 EXPIRES, THEN THIS TCP1 ALSO EXPIRES AND IS NO LONGER VALID.
2. THE TCP1 WILL BE MODIFIED BY A TYPE 2 TREE CONSERVATION PLAN IN CONJUNCTION WITH THE APPROVAL OF A DETAILED SITE PLAN, A SPECIFIC DESIGN PLAN, AND/OR A GRADING PERMIT APPLICATION, WHICHEVER COMES FIRST.
3. THE TYPE 2 TREE CONSERVATION PLAN WILL PROVIDE SPECIFIC DETAILS ON THE TYPE AND LOCATION OF PROTECTION DEVICES, SIGNS, REFORESTATION, AFFORESTATION, AND OTHER DETAILS NECESSARY FOR THE IMPLEMENTATION OF THE REQUIREMENTS ON THIS SITE. THE DETAILS AND LIMITS OF DISTURBANCE SHOWN ON THE TCP2 SHALL BE CONSISTENT WITH ALL OTHER PLANS FOR THE SITE, INCLUDING THE STORMWATER MANAGEMENT PLAN AND THE EROSION AND SEDIMENT CONTROL PLAN.
4. CHANGES TO THE TYPE, LOCATION, OR EXTENT OF THE WOODLAND CONSERVATION REFLECTED ON THIS PLAN ARE SUBJECT TO THE CONFORMANCE PROVISIONS OF SECTION 25-119(C) OF THE WOODLAND CONSERVATION ORDINANCE.
5. CUTTING, CLEARING, OR DAMAGING WOODLANDS CONTRARY TO THIS PLAN, AS MODIFIED BY A TYPE 2 TREE CONSERVATION PLAN, OR IN THE ABSENCE OF AN APPROVED TYPE 2 TREE CONSERVATION PLAN, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE PRINCE GEORGE'S COUNTY PLANNING BOARD OR DESIGNEE SHALL BE SUBJECT TO APPROPRIATE MITIGATION WHICH MAY INCLUDE RESTORATION OF THE DISTURBED AREA AND A FINE NOT TO EXCEED $9.00 PER SQUARE FOOT OF WOODLAND DISTURBED.
6. THE DEVELOPER OR BUILDER OF THE LOTS OR PARCELS SHOWN ON THIS PLAN SHALL NOTIFY FUTURE BUYERS OF ANY WOODLAND CONSERVATION AREAS THROUGH THE PROVISION OF A COPY OF THE APPROVED TCP2 AT TIME OF CONTRACT SIGNING. FUTURE OWNERS OF THE PROPERTY ARE ALSO SUBJECT TO THIS REQUIREMENT.
7. THE PROPERTY IS WITHIN THE ENVIRONMENTAL STRATEGY AREA (ESA 2) OF PLAN PRINCE GEORGE'S 2035 (FORMERLY THE DEVELOPING TIER) AND IS ZONED R-A.
8. THE SITE IS NOT ADJACENT TO A ROADWAY DESIGNATED AS SCENIC, A PARKWAY OR A SCENIC BYWAY, HOWEVER WOODYARD ROAD IS CONSIDERED HISTORIC FROM ROSARYVILLE ROAD TO MARLBORO PIKE.
9. THE PROPERTY IS LOCATED ADJACENT TO WOODYARD ROAD (MD 223), A MASTER PLANNED ARTERIAL ROADWAY.
10. THIS PLAN IS NOT GRANDFATHERED BY CB-27-2010.
11. PLANS FOR STORMWATER MANAGEMENT ARE CONTAINED IN CONCEPTUAL STORMWATER MANAGEMENT #29538-2016-00 APPROVED AUGUST 6, 2018. THE PROPOSED STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS TCP1 ARE IN CONFORMANCE WITH THE CONCEPT PLAN APPROVAL. THE TCP2 SHALL SHOW THE FINAL DESIGN FOR STORM WATER.
12. LANDS TO BE DEDICATED TO A PUBLIC AGENCY WILL ONLY BE USED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS IF THE AGENCY PROVIDES WRITTEN AUTHORIZATION FOR THE USE OF THOSE LANDS PRIOR TO SIGNATURE APPROVAL OF THIS PLAN. THERE IS NO LAND BEING DEDICATED.

SCALE: 1"=150'

Specimen Trees

Tree #	Common Name	Latin Name	Diameter at Breast Height (DBH)	Condition Rating	Condition	Comments	ROOT ZONE IMPACT
1	Yellow Poplar	*Liriodendron tulipifera*	34	72	Fair	Root, trunk & top damage; poor branching; dieback, decay	100%
2	Red Maple	*Acer rubrum*	33	84	Good	Trunk & top damage, poor branching, needs pruning	100%
3	Sycamore	*Platanus occidentalis*	33	72	Fair	Root, trunk & top damage; poor branching; dieback, decay, cavities	100%
4	Sycamore	*Platanus occidentalis*	32	78	Fair	Root, trunk & top damage; poor branching; dieback, decay, cavities	100%
5	Sycamore	*Platanus occidentalis*	31	72	Fair	Trunk & top damage, poor branching, needs pruning; likely cavities upper trunk	100%
6	Yellow Poplar	*Liriodendron tulipifera*	31	84	Good	Trunk & top damage, dieback	100%
7	Red Maple	*Acer rubrum*	37	56	Poor	Root, trunk & top damage, decay, dieback, poor branching	100%
8	Yellow Poplar	*Liriodendron tulipifera*	31	78	Fair	Trunk & top damage, needs pruning, decay, dieback	40%
9	Yellow Poplar	*Liriodendron tulipifera*	37	78	Fair	Trunk & top damage, needs pruning, decay, dieback	35%
10	Yellow Poplar	*Liriodendron tulipifera*	33	91	Excellent	Top damage, dieback, needs pruning	100%
11	Yellow Poplar	*Liriodendron tulipifera*	36	84	Good	Top damage, dieback, needs pruning, poor branching	100%
12	Yellow Poplar	*Liriodendron tulipifera*	62	53	Poor	Root, trunk & top damage, decay, cavities, poor branching, dieback	100%
13	Yellow Poplar	*Liriodendron tulipifera*	39	69	Poor	Trunk & top damage, cavities, decay, dieback, poor branching, vines in top	100%
14	Southern Red Oak	*Quercus falcata*	35	72	Fair	Trunk & top damage, decay, poor branching, dieback, need pruning	100%
15	Yellow Poplar	*Liriodendron tulipifera*	35	84	Good	Trunk & top damage, decay, dieback	100%
16	Yellow Poplar	*Liriodendron tulipifera*	33	84	Good	Trunk & top damage, decay, dieback	100%
17	Sycamore	*Platanus occidentalis*	35	84	Good	Trunk & top damage, decay, dieback	100%
18	Sycamore	*Platanus occidentalis*	34	78	Fair	Roots exposed, trunk & top damage, decay, needs pruning, dieback	100%
19	Sycamore	*Platanus occidentalis*	33	84	Good	Roots exposed & damaged, top damage, decay, needs pruning, dieback	100%

*Trees denoted with an asterisk were found off-site within 100-foot of the property boundary.

SPECIMEN TREES WERE LOCATED USING GPS AND HIGH RESOLUTION AERIAL PHOTOS

WPA	ACRES
A	11.26
B	4.85
C	1.02
D	0.61
E	1.15
F	2.35
G	0.79
TOTAL	**22.03**

WRA	ACRES
A	3.60
TOTAL	**3.60**

C-FP	ACRES
A	0.02
TOTAL	**0.02**

Property Owners Awareness Certificate

I/ We Galilee Baptist Church hereby acknowledge that we are aware of this Type 1 Tree Conservation Plan (TCP1) and that we understand the requirements as set forth in this TCP1.

Owner or Owners Representative — Date 10/23/2018

I/ We _____ hereby acknowledge that we are aware of this Type 1 Tree Conservation Plan (TCP1) and that we understand the requirements as set forth in this TCP1.

Contract Purchaser — Date

Standard Woodland Conservation Worksheet for Prince George's County

SECTION I-Establishing Site Information- (Enter acres for each zone)			
Zone:	R-A		
Gross Tract:	49.97	0.00	0.00
Floodplain:	4.42	0.00	0.00
Previously Dedicated Land:	0.00	0.00	0.00
Net Tract (NTA):	45.55	0.00	0.00

TCP Number	TCPX-XXX-XXXX	Revision #	0
Property Description or Subdivision Name:	GALILEE BAPTIST CHURCH		
Is this site subject to the 1989 or 1991 Ordinance	N		
Is this site subject to the 1991 Ordinance	N		
Subject to 2010 Ordinance and in PFA (Priority Funding Area)	Y		
Is this one (1) single family lot? (Y or N)	N		
Are there prior TCP approvals which include a combination of this lot/s? (Y or N)	N		
Is any portion of the property in a W/C Bank? (Y or N)	N		
Break-even Point (preservation) =	24.44	acres	
Clearing permitted w/o reforestn=	6.67	acres	

SECTION II-Determining Requirements (Enter acres for each corresponding column)	Column A WCT/AFT %	Column B Net Tract	Column C Floodplain (1:1)	Column D Off-Site Impacts (1:1)
Existing Woodland		31.11	3.38	
Woodland Conservation Threshold (WCT) =	50.00%	22.78		
Smaller of 17 or 18		22.78		
Woodland above WCT		8.34		
Woodland cleared		9.08	0.02	0.00
Woodland cleared above WCT (smaller of 16 or 17)		8.34		
Clearing above WCT (0.25 : 1) replacement requirement		2.08		
Woodland cleared below WCT		0.74		
Clearing below WCT (2:1 replacement requirement)		1.49		
Afforestation Required Threshold (AFT) =	20.00%	0.00		
Off-site WCA being provided on this property		0.00		
Woodland Conservation Required		**25.63**	acres	

SECTION III-Meeting the Requirements (Enter acres for each corresponding column)				
Woodland Preservation		22.03		
Afforestation / Reforestation		3.60	Bond amount:	$ 47,044.80
Natural Regeneration		0.00		
Landscape Credits		0.00		
Specimen/Historic Tree Credit (CRZ area * 2.0)	0.00	0.00		
Forest Enhancement Credit (Area * .25)	0.00	0.00		
Street Tree Credit (Existing or 10-year canopy coverage)		0.00		
Area approved for fee-in-lieu		0.00	Fee amount:	$0.00
Off-site Woodland Conservation Credits Required		0.00		
Off-site WCA (preservation) being provided on this property		0.00		
Off-site WCA (afforestation) being provided on this property		0.00		
Woodland Conservation Provided		**25.63**	acres	

Area of woodland not cleared	22.03	acres
Net tract woodland retained not part of requirements:	0.00	acres
100-floodplain woodland retained	3.36	acres
On-site woodland conservation provided	25.63	acres
On-site woodland conservation alternatives provided	0.00	
On-site woodland retained not credited	3.36	acres

Prepared by: Signed — Date

NRI STATISTICS TABLE

SITE STATISTICS	TOTAL
GROSS TRACT AREA	49.97 AC.+/-
EXISTING 100-YEAR FLOODPLAIN	4.42 AC.+/-
NET TRACT AREA	45.55 AC. +/-
EXISTING WOODLAND IN THE FLOODPLAIN	3.38 AC. +/-
EXISTING WOODLAND NET TRACT	31.11 AC.+/-
EXISTING WOODLAND TOTAL	34.49 AC.+/-
EXISTING PMA	12.55 AC.+/-
REGULATED STREAMS (LF OF CENTERLINE)	5459 L.F.+/-
RIPARIAN (WOODED) BUFFER UP TO 300 FET WIDE	0.0 L.F.+/-

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
GENERAL INFORMATION TABLE

LAYER CATEGORY	LAYER NAME	VALUE
Zone	Zoning (Zone)	R-A
Zone	Aviation Policy Area (APA)[1]	N/A
Administrative	Tax Grid (TMG)	100, B-4
Administrative	WSSC Grid (Sheet 200)	208 SE 09
Administrative	Planning Area (Plan Area)	6
Administrative	Election District (ED)	15
Administrative	Councilmanic District (CD)	9
Administrative	General Plan 2002 Tier (Tier)	DevelopING
Administrative	General Plan Growth Policy (2035)	Established Communit
Administrative	Police District	V

[1] If site is within an APA, enter the name of the airport, if not enter "N/A"

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN TYPE 1 APPROVAL
TCP1-

	APPROVED BY	DATE	REASON FOR REVISION
00			N/A
01			
02			
03			
04			
05			
06			

SOLTESZ, LLC

Engineering
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Planning
Environmental Sciences

4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 — CAD STANDARDS VERSION: V8 - 2000
DESIGNED: DJB — TECHNICIAN: BCG — CHECKED: DJB

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83	XXXX:
VERTICAL: NAVD 88	

COVER SHEET

TREE CONSERVATION PLAN-TYPE 1
FOR PPS 4-23023

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 150'

SHEET 1 OF 3

C-7

PROJECT NO. 1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O; 1 2 3 4 5 6 7 8 9 10

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN TYPE 1 APPROVAL
TCP1-

	APPROVED BY	DATE	REASON FOR REVISION
00			N/A
01			
02			
03			
04			
05			
06			

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767 GRID J2	
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

TREE CONSERVATION PLAN-TYPE 1
FOR PPS 4-23023

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

SHEET 2 OF 3 — C-8

PROJECT NO. 1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O

MATCHLINE SEE SHEET 2 OF 3

WOODLAND PRESERVATION AREA C: 1.02 ACRES

WOODLAND PRESERVATION AREA D: 0.61 ACRES

WOODLAND PRESERVATION AREA E: 1.15 ACRES

WOODLAND PRESERVATION AREA G: 0.79 ACRES

WOODLAND PRESERVATION AREA F: 2.35 ACRES

PROPOSED PARCEL 2 8.5201 AC.

EX. PARCEL 76
GALILEE BAPTIST CHURCH
8.5157 ACRES
L.30474 F.41
ZONE: R-A/AR
USE: AGRICULTURAL

C-606 MASTER PLANNED RIGHT-OF-WAY TO BE DEDICATED TO PUBLIC RIGHT-OF-WAY (80' R/W)
2.6105 ACRES

LOT 1
WILSON, GLORIA
F.6956/309
ZONED R-A/AR
USE: RESIDENTIAL

PARCEL 59
KLEINER DARDO
427/0419
ZONED R-A/AR
USE: AGRICULTURAL

PARCEL 75
MNCPPC
MARLBORO PIKE
1707/7/19
ZONED R-A/AR
USE: PARKS AND OPEN SPACE

CHARLES BRANCH

PARCEL 6
POTOMAC ELECTRIC POWER C
L.5104 F.291
ZONED R-A/AR
USE: TRANSPORTATION/UTILITI

EX. SEWER TO REMAIN

EX. SEWER TO BE REMOVED

10' P.U.E

SCALE: 1" =50'

50 25 0 50 100

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN TYPE 1 APPROVAL
TCP1-

	APPROVED BY	DATE	REASON FOR REVISION
00			N/A
01			
02			
03			
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05			
06			

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OWNER/DEVELOPER/APPLICANT

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2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

TREE CONSERVATION PLAN-TYPE 1
FOR PPS 4-23023
GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

SHEET 3 OF 3

C-9

PROJECT NO. 1404-06-00

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GALILEE BAPTIST CHURCH

TREE CONSERVATION PLAN -TYPE 2

MELWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

GENERAL NOTES

1. THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR A GRADING PERMIT, IF THIS GRADING PERMIT EXPIRES, THEN THIS TCP2 ALSO EXPIRES AND IS NO LONGER VALID.

2. CUTTING OR CLEARING OF WOODLAND NOT IN CONFORMANCE WITH THIS PLAN OR WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE PLANNING DIRECTOR OR DESIGNEE SHALL BE SUBJECT TO A $9.00 PER SQUARE FOOT MITIGATION FEE.

3. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE ISSUANCE OF GRADING PERMITS. THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION OR THE DEPARTMENT OF ENVIRONMENTAL RESOURCES, AS APPROPRIATE, SHALL BE CONTACTED PRIOR TO THE START OF ANY WORK ON THE SITE TO CONDUCT A PRE-CONSTRUCTION MEETING WHERE IMPLEMENTATION OF WOODLAND CONSERVATION MEASURES SHOWN ON THIS PLAN WILL BE DISCUSSED IN DETAIL.

4. THE DEVELOPER OR BUILDER OF THE LOTS OR PARCELS SHOWN ON THIS PLAN SHALL NOTIFY FUTURE BUYERS OF ANY WOODLAND CONSERVATION AREAS THROUGH THE PROVISION OF A COPY OF THIS PLAN AT TIME OF CONTRACT SIGNING. FUTURE PROPERTY OWNERS ARE ALSO SUBJECT TO THIS REQUIREMENT.

5. THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION PLAN ARE SOLELY RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN.

6. THE PROPERTY IS WITHIN THE ENVIRONMENTAL STRATEGY AREA (ESA 2) OF PLAN PRINCE GEORGE'S 2035 (FORMERLY THE DEVELOPING TIER) AND IS ZONED R-A.

7. THE SITE IS NOT ADJACENT TO A ROADWAY DESIGNATED AS SCENIC, A PARKWAY OR A SCENIC BYWAY. HOWEVER WOODYARD ROAD IS CONSIDERED HISTORIC FROM ROSARYVILLE ROAD TO MARLBORO PIKE.

8. THE PROPERTY IS LOCATED ADJACENT TO WOODYARD ROAD (MD 223), A MASTER PLANNED ARTERIAL, ROADWAY.

9. ALL WOODLANDS DESIGNATED ON THIS PLAN FOR PRESERVATION ARE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE WOODLAND AREAS SHALL REMAIN IN A NATURAL STATE. THIS INCLUDES THE CANOPY TREES AND UNDERSTORY VEGETATION. A REVISED TREE CONSERVATION PLAN IS REQUIRED PRIOR TO CLEARING WOODLAND AREAS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE CLEARED ON THE APPROVED TCP2.

10. TREE AND WOODLAND CONSERVATION METHODS SUCH AS ROOT PRUNING SHALL BE CONDUCTED AS NOTED ON THIS PLAN.

11. THE LOCATION OF ALL TEMPORARY TREE PROTECTION FENCING (TPFs) SHOWN ON THIS PLAN SHALL BE FLAGGED OR STAKED IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING UPON APPROVAL OF THE LOCATIONS BY THE COUNTY INSPECTOR. INSTALLATION OF THE TPFS MAY BEGIN.

12. ALL TEMPORARY TREE PROTECTION FENCING REQUIRED BY THIS PLAN SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE BOND IS RELEASED FOR THE PROJECT. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE DEVICES IS A VIOLATION OF THIS TCP2.

13. WOODLAND PRESERVATION AREAS SHALL BE POSTED WITH SIGNAGE AS SHOWN ON THE PLANS AT THE SAME TIME AS THE TEMPORARY TPF INSTALLATION. THESE SIGNS MUST REMAIN IN PERPETUITY. REMOVAL OF HAZARDOUS TREES OR LIMBS BY DEVELOPERS OR BUILDERS

14. THE DEVELOPER AND/OR BUILDER IS RESPONSIBLE FOR THE COMPLETE PRESERVATION OF ALL FORESTED AREAS SHOWN ON THE APPROVED PLAN TO REMAIN UNDISTURBED, ONLY TREES OR PARTS THEREOF DESIGNATED BY THE COUNTY AS DEAD, DYING, OR HAZARDOUS MAY BE REMOVED.

15. A TREE IS CONSIDERED HAZARDOUS IF A CONDITION IS PRESENT WHICH LEADS A CERTIFIED ARBORIST OR LICENSED TREE EXPERT TO BELIEVE THAT THE TREE OR A PORTION OF THE TREE HAS A POTENTIAL TO FALL AND STRIKE A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

16. DURING THE INITIAL STAGES OF CLEARING AND GRADING, IF HAZARDOUS TREES ARE PRESENT, OR TREES ARE PRESENT THAT ARE NOT HAZARDOUS BUT ARE LEANING INTO THE DISTURBED AREA, THE PERMITEE SHALL REMOVE SAID TREES USING A CHAIN SAW. CORRECTIVE MEASURES REQUIRING THE REMOVAL OF THE HAZARDOUS TREE OR PORTIONS THEREOF SHALL REQUIRE AUTHORIZATION BY THE COUNTY INSPECTOR, ONLY AFTER APPROVAL BY THE INSPECTOR MAY THE TREE BE CUT BY CHAINSAW TO NEAR THE EXISTING GROUND LEVEL. THE STUMP SHALL NOT BE REMOVED OR COVERED WITH SOIL, MULCH OR OTHER MATERIALS THAT WOULD INHIBIT SPROUTING.

17. IF A TREE OR TREES BECOME HAZARDOUS PRIOR TO BOND RELEASE FOR THE PROJECT, DUE TO STORM EVENTS OR OTHER SITUATIONS NOT RESULTING FROM AN ACTION BY THE PERMITEE, PRIOR TO REMOVAL A CERTIFIED ARBORIST OR A LICENSED TREE EXPERT MUST CERTIFY THAT THE TREE OR THE PORTION OF THE TREE IN QUESTION HAS A POTENTIAL TO FALL AND STRIKE A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. IF A TREE OR PORTIONS THEREOF ARE IN IMMINENT DANGER OF STRIKING A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.
IF CORRECTIVE PRUNING MAY ALLEVIATE A HAZARDOUS CONDITION, THE CERTIFIED ARBORIST OR A LICENSED TREE EXPERT MAY PROCEED WITHOUT FURTHER AUTHORIZATION. THE PRUNING MUST BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPROPRIATE ANSI A-300 PRUNING STANDARDS. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE. DEBRIS FROM THE TREE REMOVAL OR PRUNING THAT OCCURS WITHIN 35 FEET OF THE WOODLAND EDGE MAY BE REMOVED AND PROPERLY DISPOSED OF BY RECYCLING, CHIPPING OR OTHER ACCEPTABLE METHODS. ALL DEBRIS THAT IS MORE THAN 35 FEET FROM THE WOODLAND EDGE SHALL BE CUT UP TO ALLOW CONTACT WITH THE GROUND. THUS ENCOURAGING DECOMPOSITION. THE SMALLER MATERIALS SHALL BE PLACED INTO BRUSH PILES THAT WILL SERVE AS WILDLIFE HABITAT.
TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS SHOWN WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT.
NATURAL REGENERATION NOTES

SOME DESIGNATED AREASSHALL BE REFORESTED BY NATURAL REGENERATION.
THE FOLLOWING REQUIREMENTS AND CONDITIONS APPLY:

1. ALL EXISTING TURF, GROUND COVERS, AND INVASIVE SPECIES SHALL BE EXTERMINATED USING A GENERAL BROADCAST HERBICIDE SUCH AS "ROUND-UP" OR EQUIVALENT. SECONDARY APPLICATIONS SHALL BE APPLIED AS NECESSARY.

2. CARE SHALL BE TAKEN TO AVOID SPRAYING ANY HARDWOOD SEEDLINGS OR SAPLINGS.

3. ROTO-TILLING OF TURF AREAS AND MANUAL REMOVAL OF INVASIVE VINES SHALL BE COMPLETED TWO WEEKS AFTER CHEMICAL TREATMENTS ARE COMPLETED.

4. REFORESTATION SIGNS SHALL BE INSTALLED EVERY FIFTY FEET AND TWO STRAND WIRE FENCING SHALL BE INSTALLED ALONG ROAD FRONTAGES ADJACENT TO ANY REFORESTATION AREAS.

5. REFORESTATION INTERNAL TO THE SITE SHALL BE POSTED AS REQUIRED IN THE DIRECTION OF ANY TRAILS USED TO REACH THOSE AREAS.

6. NATURAL REGENERATION SHALL BE ENCOURAGED BY SEMI-ANNUAL MAINTENANCE OF THE DESIGNATED AREAS. THE MAINTENANCE SHALL AT A MINIMUM, REQUIRE REMOVAL OF COMPETITIVE AND INVASIVE SPECIES FROM THE DESIRED INDIGENOUS HARDWOODS. THIS MAINTENANCE SHALL OCCUR FOR A PERIOD OF TWO YEARS.

7. AFTER ONE AND TWO YEARS ALL DESIRABLE SEEDLINGS AND SAPLINGS SHALL BE COUNTED AND FLAGGED WITH SURVEYORS TAPE IN THE LATE FALL.

8. IF AFTER TWO YEARS THERE IS LESS THAN ONE SEEDLING PER 60 SQUARE FEET AND THERE ARE INDICATIONS THAT NATURAL REGENERATION IS NOT OCCURRING ADEQUATELY THEN THE OWNERS SHALL PLANT THOSE AREAS WITH CONTAINER GROWN SEEDLINGS AT A RATE OF ONE PER 60 SQUARE FEET, ONLY NATURALLY OCCURRING SPECIES ALREADY PRESENT WITHIN THE SITE SHALL BE USED.
A FOUR-YEAR MANAGEMENT PLAN FOR REAFFORESTATION SHALL BE ADDED TO THE PLAN AS FOLLOWS:
FOUR-YEAR MANAGEMENT PLAN FOR REAFFORESTATION AREAS
FIELD CHECK: THE RE-AFFORESTATION AREA ACCORDING TO THE FOLLOWING SCHEDULE:
YEAR 1: SITE PREPARATION AND TREE PLANTING
SURVIVAL CHECK: ONCE ANNUALLY (SEPTEMBER-NOVEMBER) SEE NOTE 1)
WATERING IS NEEDED (2 X MONTH)
CONTROL OF UNDESIRABLE VEGETATION AS NEEDED (1 X IN JUNE AND 1 X IN SEPTEMBER MIN.)
YEAR 2-3: REINFORCEMENT PLANTING IS NEEDED (SEE NOTE 2)
SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER)
CONTROL OF UNDESIRABLE VEGETATION (IF NEEDED (1 X IN MAY AND 1 X IN AUGUST MIN.)
YEAR 4: REINFORCEMENT PLANTING IF NEEDED. (SEE NOTE 2)

SURVIVAL CHECK (SEPTEMBER -NOVEMBER)

1. SURVIVAL CHECK: CHECK PLANTED STOCK AGAINST PLANT LIST (OR AS- BUILT) BY WALKING THE SITE AND TAKING INVENTORY. PLANTS MUST SHOW VITALITY. SUBMIT FIELD DATA FORMS (CONDITION CHECK SHEETS) TO OWNER AFTER EACH INSPECTION. REMOVE ALL DEAD PLANTS.

2. REINFORCEMENT PLANTING: REPLACE DEAD OR MISSING PLANTS IN SUFFICIENT QUANTITY TO BRING THE TOTAL NUMBER OF LIVE PLANTS TO AT LEAST 75% OF THE NUMBER ORIGINALLY PLANTED. IF A PARTICULAR SPECIES SUFFERS UNUSUALLY HIGH MORTALITY, REPLACE WITH AN ALTERNATIVE PLANT TYPE.

3. MISCELLANEOUS: FERTILIZATION OR WATERING DURING YEARS 1 THROUGH 3 WILL BE DONE ON AN AS NEEDED BASIS. SPECIAL RETURN OPERATIONS OR RECOMMENDATIONS WILL BE CONDUCTED ON AN AS NEEDED BASIS.
WHEN OFF-SITE WOODLAND CONSERVATION IS PROPOSED:
PRIOR TO THE ISSUANCE OF THE FIRST PERMIT FOR THE DEVELOPMENT SHOWN ON THIS TCP2, ALL OFF SITE WOODLAND CONSERVATION REQUIRED BY THIS PLAN SHALL BE IDENTIFIED ON AN APPROVED TCP2 PLAN AND RECORDED AS AN OFF-SITE EASEMENT IN THE LAND RECORDS OF PRINCE GEORGE'S COUNTY. PROOF OF RECORDATION OF THE OFF-SITE CONSERVATION SHALL BE PROVIDED TO THE MNCPPC, PLANNING DEPARTMENT PRIOR TO ISSUANCE OF ANY PERMIT FOR THE ASSOCIATED PLAN.
ADD THE APPLICABLE INVASIVE PLAN REMOVAL NOTES IF AFFORESTATION IS USED ON AN OFF-SITE WOODLAND CONSERVATION BANK.

AFFORESTATION AND REFORESTATION NOTES

A. ALL AFFORESTATION AND REFORESTATION BONDS, BASED ON SQUARE FOOTAGE, SHALL BE POSTED WITH THE COUNTY PRIOR TO THE ISSUANCE OF ANY PERMITS. THESE BONDS WILL BE RETAINED AS SURETY UNTIL ALL REQUIRED ACTIVITIES HAVE BEEN SATISFIED OR THE REQUIRED TIMEFRAME FOR MAINTENANCE HAS PASSED, WHICHEVER IS LONGER.

B. THE PLANTING OF AFFORESTATION OR REFORESTATION AREAS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT. (THIS STANDARD NOTE MAY BE MODIFIED AS NECESSARY TO ADDRESS WHICH BUILDING PERMITS ARE ADJACENT TO THE PROPOSED PLANTING AREA.) SEEDLING PLANTING IS TO OCCUR FROM MARCH THROUGH NOVEMBER ONLY. NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING WITH LARGER CALIPER STOCK OR CONTAINERIZED STOCK MAY BE DONE AT ANY TIME PROVIDED A DETAILED MAINTENANCE SCHEDULE IS PROVIDED.

C. IF PLANTING CANNOT OCCUR DUE TO PLANTING CONDITIONS, THE DEVELOPER OR PROPERTY OWNER SHALL INSTALL THE FENCING AND SIGNAGE IN ACCORDANCE WITH THE APPROVED TYPE 2 TREE CONSERVATION PLAN. PLANTING SHALL THEN BE ACCOMPLISHED DURING THE NEXT PLANTING SEASON. IF PLANTING IS DELAYED BEYOND THE TRANSFER OF THE PROPERTY TITLE TO THE HOMEOWNER, THE DEVELOPER OR BUILDER SHALL OBTAIN A SIGNED STATEMENT FROM THE PURCHASER INDICATING THAT THEY UNDERSTAND THAT THE REFORESTATION AREA IS LOCATED ON THEIR PROPERTY AND THAT REFORESTATION WILL OCCUR DURING THE NEXT PLANTING SEASON. A COPY OF THAT DOCUMENT SHALL BE PRESENTED TO THE GRADING INSPECTOR AND THE COUNTY.

D. REFORESTATION AREAS SHALL NOT BE MOWED; HOWEVER, THE MANAGEMENT OF COMPETING VEGETATION AROUND INDIVIDUAL TREES AND REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION WITHIN THE REFORESTATION AREAS IS ACCEPTABLE.

E. ALL REQUIRED TEMPORARY TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE PERMANENT TREE PROTECTION FENCING IS INSTALLED WITH THE REQUIRED PLANTING. THE TEMPORARY FENCING IS NOT REQUIRED TO BE INSTALLED IF THE PERMANENT FENCING IS INSTALLED PRIOR TO CLEARING AND GRADING OF THE SITE. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE FENCING IS A VIOLATION OF THIS TCP2.

F. AFFORESTATION/REFORESTATION AREAS SHALL BE POSTED WITH NOTIFICATION SIGNAGE, AS SHOWN ON THE PLANS, AT THE SAME TIME AS THE PERMANENT PROTECTION FENCING INSTALLATION. THESE SIGNS SHALL REMAIN IN PERPETUITY.

G. THE COUNTY INSPECTOR SHALL BE NOTIFIED PRIOR TO SOIL PREPARATION OR INITIATION OF ANY TREE PLANTING ON THIS SITE.

H. AT TIME OF ISSUANCE OF THE FIRST PERMIT, THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE M-NCPPC PLANNING DEPARTMENT REGARDING THE CONTRACTOR RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN: CONTRACTOR NAME; BUSINESS NAME (IF DIFFERENT); ADDRESS; AND PHONE NUMBER.
RESULTS OF ANNUAL SURVIVAL CHECKS FOR EACH OF THE REQUIRED FOUR YEARS AFTER TREE PLANTING SHALL BE REPORTED TO THE M-NCPPC, PLANNING DEPARTMENT.

I. FAILURE TO ESTABLISH THE AFFORESTATION OR REFORESTATION WITHIN THE PRESCRIBED TIME FRAME WILL RESULT IN THE FORFEITURE OF THE REFORESTATION BOND AND/OR A VIOLATION OF THIS PLAN INCLUDING THE ASSOCIATED $9.00 PER SQUARE FOOT PENALTY UNLESS THE COUNTY INSPECTOR APPROVES A WRITTEN EXTENSION.

PLANTING SPECIFICATION NOTES

1. QUANTITY: (SEE PLANT SCHEDULE)

2. TYPE: (SEE PLANT SCHEDULE)

3. PLANT QUALITY STANDARDS: THE PLANTS SELECTED SHALL BE HEALTHY AND STURDY REPRESENTATIVES OF THEIR SPECIES. SEEDLINGS SHALL HAVE A MINIMUM TOP GROWTH OF 18". THE DIAMETER OF THE ROOT COLLAR (THE PART OF THE ROOT JUST BELOW GROUND LEVEL) SHALL BE AT LEAST 3/8". THE ROOTS SHALL BE WELL DEVELOPED AND AT LEAST 8" LONG. NO MORE THAN TWENTY -FIVE PERCENT (25%) OF THE ROOT SYSTEM (BOTH PRIMARY AND AUXILIARY)FIBROUS ROOTS SHALL BE PRESENT.
PLANTS THAT DO NOT HAVE AN ABUNDANCE OF WELL DEVELOPED TERMINAL BUDS ON THE LEADERS AND BRANCHES SHALL BE REJECTED.
PLANTS SHALL BE SHIPPED BY THE NURSERY IMMEDIATELY AFTER LIFTING FROM THE FIELD OR REMOVAL FROM THE GREEN HOUSE, AND PLANTED IMMEDIATELY UPON RECEIPT BY THE LANDSCAPE CONTRACTOR. IF THE PLANTS CANNOT BE PLANTED IMMEDIATELY AFTER DELIVERY TO THE REFORESTATION SITE, THEY SHALL BE STORED IN THE SHADE WITH THEIR ROOT MASSES PROTECTED FROM DIRECT EXPOSURE TO SUN AND WIND BY THE USE OF STRAW, PEAT MOSS, COMPOST, OR OTHER SUITABLE MATERIAL AND SHALL BE MAINTAINED THROUGH PERIODIC WATERING, UNTIL THE TIME OF PLANTING.

4. PLANT HANDLING: THE QUANTITY OF SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY OR TEMPORARY STORAGE AREA SHALL BE PLANTED IMMEDIATELY.

5. TIMING OF PLANTING: THE BEST TIME TO PLANT SEEDLINGS IS WHILE THEY ARE DORMANT, PRIOR TO SPRING BUDDING. THE MOST SUITABLE MONTHS FOR PLANTING ARE MARCH AND APRIL. WHEN THE SOIL IS MOIST, BUT MAY BE PLANTED FROM MARCH THROUGH NOVEMBER. NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING SHALL OCCUR WITHIN ONE GROWING SEASON OF THE ISSUANCE OF GRADING /BUILDING PERMITS AND/OR REACHING THE FINAL GRADES AND STABILIZATION OF PLANTING AREAS.

6. SEEDLING PLANTING: TREE SEEDLINGS SHALL BE HAND PLANTED USING A DIBBLE BAR OR SHARP-SHOOTER SHOVEL. IT IS IMPORTANT THAT THE SEEDLING BE PLACED IN THE HOLE SO THAT THE ROOTS CAN SPREAD OUT NATURALLY. THEY SHOULD NOT BE TWISTED, BALLED UP OR BENT. MOIST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHOULD BE PLANTED AT A DEPTH WHERE THEIR ROOTS LIE JUST BELOW THE GROUND SURFACE. AIR POCKETS SHOULD NOT BE LEFT AFTER CLOSING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. SEE PLANTING DETAILS FOR FURTHER EXPLANATION. IF THE CONTRACTOR WISHES TO PLANT BY ANOTHER METHOD, THE PREPARER OF THIS TREE CONSERVATION PLAN MUST BE CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.

7. SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING THEORY.

8. SOIL: UPON THE COMPLETION OF ALL GRADING OPERATIONS, A SOIL TEST SHALL BE CONDUCTED TO DETERMINE WHAT SOIL PREPARATION AND SOIL AMENDMENTS, IF ANY, ARE NECESSARY TO CREATE GOOD TREE GROWING CONDITIONS. SOIL SAMPLES SHALL BE TAKEN AT A RATE THAT PROVIDES ONE SOIL SAMPLE FOR EACH AREA THAT APPEARS TO HAVE A DIFFERENT SOIL TYPE (IF THE ENTIRE AREA APPEARS UNIFORM, THEN ONLY ONE SAMPLE IS NECESSARY), AND SUBMITTED FOR TESTING TO A PRIVATE COMPANY. THE COMPANY OF CHOICE SHALL MAKE RECOMMENDATIONS FOR IMPROVING THE EXISTING SOIL. THE SOIL WILL BE TESTED AND RECOMMENDATIONS FOR CORRECTIONS OF SOIL TEXTURE, PH, MAGNESIUM, PHOSPHORUS, POTASSIUM, CALCIUM AND ORGANIC MATTER.

9. SOIL IMPROVEMENT MEASURES: THE SOIL SHALL THEN BE IMPROVED ACCORDING TO THE RECOMMENDATIONS MADE BY THE TESTING COMPANY.

10. FENCING AND SIGNAGE: FINAL PROTECTIVE FENCING SHALL BE PLACED ON THE VISIBLE AND/OR DEVELOPMENT SIDE OF PLANTING AREAS. THE FINAL PROTECTIVE FENCE SHALL BE INSTALLED UPON COMPLETION OF PLANTING OPERATIONS UNLESS IT WAS INSTALLED DURING THE INITIAL STAGES OF DEVELOPMENT. SIGNS SHALL BE POSTED PER THE SIGNAGE DETAIL ON THIS SHEET.

11. PLANTING METHOD: CONSULT THE PLANTING DETAIL(S) SHOWN ON THIS PLAN.

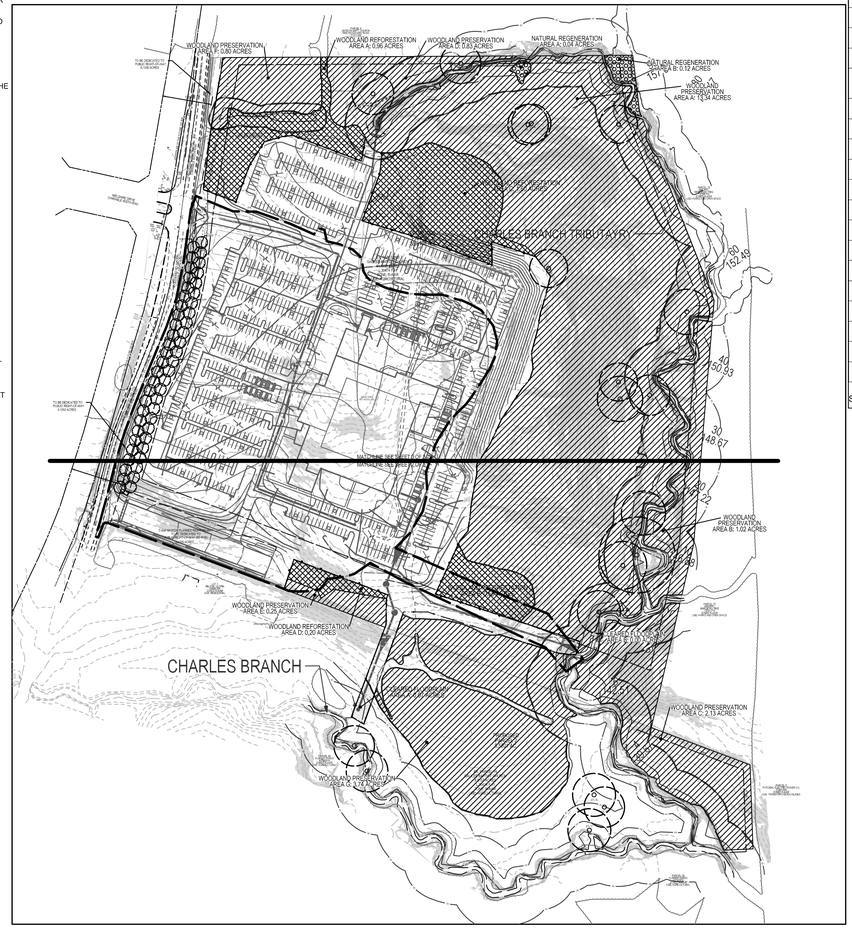
12. MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHREDDED HARDWOOD MULCH (AS NOTED) TO EACH PLATING SITE (SEE DETAIL SHOWN ON THIS PLAN).

13. GROUNDCOVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.

14. MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.

15. SURVIVAL CHECK FOR BOND RELEASE. THE SEEDLING PLANTING IS TO BE CHECKED AT THE END OF EACH YEAR FOR FOUR YEARS TO ASSURE THAT NO LESS THAN 75% OF THE ORIGINAL PLANTED QUANTITY SURVIVES. IF THE MINIMUM NUMBER HAS NOT BEEN PROVIDED THE AREA MUST BE SUPPLEMENTED WITH ADDITIONAL SEEDLINGS TO REACH THE REQUIRED NUMBER AT TIME OF PLANTING.

16. SOURCE OF SEEDLINGS: STATE NAME, ADDRESS, AND PHONE NUMBER OF NURSERY OR SUPPLIER WHEN AREAS DESIGNATED FOR REFORESTATION WILL BE REFORESTED BY NATURAL REGENERATION THE FOLLOWING NOTES SHALL BE ADDED TO THE PLAN:


WOODLAND PRESERVATION AREA F: 0.99 ACRES
WOODLAND REFORESTATION AREA A: 0.06 ACRES
WOODLAND PRESERVATION AREA B: 0.63 ACRES
NATURAL REGENERATION AREA A: 0.07 ACRES
NATURAL REGENERATION AREA B: 0.12 ACRES
WOODLAND PRESERVATION AREA C: 1.34 ACRES
CHARLES BRANCH TRIBUTARY
WOODLAND PRESERVATION AREA B: 1.02 ACRES
WOODLAND PRESERVATION AREA D: 0.00 ACRES
WOODLAND REFORESTATION AREA D: 0.00 ACRES
CHARLES BRANCH
WOODLAND PRESERVATION AREA C: 2.13 ACRES
WOODLAND PRESERVATION AREA G: 1.77 ACRES
MACHINE REFORESTATION AREA E: 0.25 ACRES
WOODLAND PRESERVATION AREA E: 0.25 ACRES
WOODLAND PRESERVATION AREA A: 13.34 ACRES
WOODLAND PRESERVATION AREA H: 0.83 ACRES
WOODLAND PRESERVATION AREA G: 3.74 ACRES
WOODLAND PRESERVATION AREA C: 2.13 ACRES
WOODLAND PRESERVATION AREA D: 0.83 ACRES
WOODLAND PRESERVATION AREA H: 0.83 ACRES
WOODLAND PRESERVATION AREA I: 0.96 ACRES
WOODLAND PRESERVATION AREA J: 0.55 ACRES
WOODLAND PRESERVATION AREA K: 1.61 ACRES
WOODLAND PRESERVATION AREA L: 0.20 ACRES
WOODLAND PRESERVATION AREA M: 0.07 ACRES
WOODLAND PRESERVATION AREA N: 0.04 ACRES
WOODLAND PRESERVATION AREA O: 0.12 ACRES
WOODLAND PRESERVATION AREA P: 0.16 ACRES
WOODLAND PRESERVATION AREA I: 0.96 ACRES
WOODLAND PRESERVATION AREA J: 0.55 ACRES
WOODLAND PRESERVATION AREA K: 1.61 ACRES
WOODLAND PRESERVATION AREA L: 0.20 ACRES
WOODLAND PRESERVATION AREA M: 0.07 ACRES
WOODLAND PRESERVATION AREA N: 0.04 ACRES
WOODLAND PRESERVATION AREA O: 0.12 ACRES
WOODLAND PRESERVATION AREA P: 0.16 ACRES
50
152.49
50
70.33
30
48.67
30
22
30
22
50
50
50

LANDSCAPE SPECIFICATIONS

A. MATERIALS

1. Plants shall be nursery grown in accordance with good horticultural practice, and grown under climatic conditions similar to those in the locality of the project. They shall have been root pruned, preferably within the last year.

   They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, pest, eggs or larvae, and shall have a healthy developed root system.

   Plants shall not be pruned before delivery. Trees with a damaged or crooked leader or multiple leaders, abrasions on the bark, sunscaled, disfiguring knots or fresh cuts over 1?? will be rejected.½" will be rejected.

   No change in quantity, size, kind or quality of plant specified will be permitted without approval of the landscape architect.

2. Topsoil shall be fertile, friable and typical of the locality; it shall be free of stones, lumps, plants, roots, sticks and shall not be delivered in a frozen or muddy condition.

3. Planting soil (backfill mix) shall be five-parts topsoil and one-part wet loose peat moss.

4. Staking materials: Guys wire shall be pliable #12 gauge galvanized twisted two-strand wire. Hose shall be a suitable length of two-ply rubber hose ? inch diameter, stakes shall conform to the detail 3/4 inch diameter, stakes shall conform to the detail on this sheet.

5. Wrapping material shall be a standard manufactured tree wrapping paper with crinkled surface and fastened by an approved method.

B. APPLICABLE SPECIFICATIONS AND STANDARDS

1. "Standard Plant Names," latest edition American Joint Committee on Horticulture Nomindature.

2. "American Standard of Nursery Stock," latest edition, American Association of Nurserymen.

C. DIGGING AND HANDLING OF PLANT MATERIALS

1. Immediately before digging, spray all evergreen or deciduous plant material in full leaf with anti-dessicant, applying an adequate film over trunks, branches, twigs and/or foliage.

2. Dig balled and burlapped (B&B) plants with firm natural balls of earth, of a diameter not less than that recommended by American Standard for Nursery Stock, and of sufficient depth to include the fibrous and feeding roots. Plants moved with a ball will not be excepted if the ball is cracked or broken before or during planting operations.

D. EXCAVATING OF PLANTING AREA

1. Stake out on the ground locations for plants and outlines of area to be planted, and obtain approval of the landscape architect before excavation is begun. Landscaped areas to be thoroughly weeded prior to planting operations.

E. PLANTING OPERATIONS

1. Set plants at same relationship to finished grade as they bore to the ground from which they were dug. Use planting soil to backfill approximately 2/3 full. water thoroughly before installing remainder of the planting soil to top of pits, eliminating all air pockets.

2. Set planting plumb and brace rigidly in position until the planting soil has been stamped solidly around the ball and roots. Cut ropes or strings from the top of ball after plant has been set. Leave burlap or cloth wrapping intact around balls. Turn under and bury portions of burlap at top of ball.

3. Protect plants at all times from sun or drying winds. Plants that can not be planted immediately on delivery shall be kept in the shade, well protected with soil, peat moss or other exceptable material and shall be kept well watered. Plants shall not remain unplanted for longer than three days after delivery.

4. Plants shall not be bound with wire or rope at any time so as to damage the bark or break branches. Plants shall be lifted and handled from the bottom of the ball only.

5. Mulch all pits and beds with a two inch layer of bark, mulch immediately after planting and work into the top three inches of the planting soil. Form a 3" earth saucer around each plant. Water all plants immediately after planting. Add additional mulch.

F. STAKING, WRAPPING AND PRUNING

1. Staking shall be completed immediately after planting. Plants shall stand plumb after staking. Stakes and guy wire shall be removed at the end of the guarantee peroid and disposed of off-site by the contractor.

2. Wrap deciduous tree trunks starting at the base of the tree up to the second branch. Remove wrapping at the end of the guarantee period.

3. Prune plants at the time of planting as directed by the landscape architect to remove 1/5 or 1/3 of the foliage. Remove all dead wood, suckers or broken branches and preserve the natural charactor of the plant.

G. GUARANTEE

1. All plant material shall be guaranteed by the contractor to be in a healthy and vigorous condition at the beginning of the second growing season following acceptance by the landscape architect.

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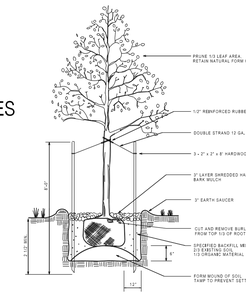
SCHEDULE FOR SECTION 4.6
BUFFERING RESIDENTIAL DEVELOPMENT FROM SPECIAL ROADWAYS

1. NAME AND TYPE OF SPECIAL ROADWAY:	WOODYARD ROAD - SCENIC & HISTORIC ROADWAY	
2. GENERAL PLAN DESIGNATION:	___	DEVELOPED TIER
	X	DEVELOPING TIER
	___	RURAL TIER
3. LINEAR FEET OF STREET FRONTAGE TOWARD WHICH REAR YARDS ARE ORIENTED (NOT INCLUDING DRIVEWAY OPENINGS):	982	FEET
4. MINIMUM REQUIRED BUFFER:	20	FEET
5. MINIMUM WIDTH OF PROVIDED BUFFER:	20	FEET
6. PERCENTAGE OF REQUIRED BUFFER STRIP OCCUPIED BY EXISTING TREES:	34	%
7. NUMBER OF PLANTS REQUIRED:	52	SHADE TREES
	0	EVERGREEN TREES
	0	SHRUBS
8. NUMBER OF PLANTS PROVIDED:	52	SHADE TREES
	0	EVERGREEN TREES
	0	SHRUBS



TREE PLANTING DETAIL
NOT TO SCALE

Property Owners Awareness Certificate

I/ We Galilee Baptist Church hereby acknowledge that we are aware of this Type 1 Tree Conservation Plan (TCP1) and that we understand the requirements as set forth in this TCP1.

Owner or Owners Representative — Date 10/23/2018

I/ We hereby acknowledge that we are aware of this Type 1 Tree Conservation Plan (TCP1) and that we understand the requirements as set forth in this TCP1.

Contract Purchaser — Date

Galilee Baptist Church
Special Roadways Buffer Plant List

Key	Quantity	Botanical Name	Common Name	Height/Spread	Caliper	Root	Spacing	Remarks
Major Shade Trees								
NYSY	12	Nyssa sylvatica	Black Gum	12'-14'	2"-2.5"	B&B	as shown	
QUPH	14	Quercus phellos	Willow Oak	12'-14'	2"-2.5"	B&B	as shown	
QURU	26	Quercus rubra	Red Oak	12'-14'	2"-2.5"	B&B	as shown	

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN APPROVAL
TCP2-001-2019

#	APPROVED BY	DATE	DRD CASE
00			
01			
02			
03			
04			
05			

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MAY 2017 — CAD STANDARDS VERSION: V8 - 2000
DESIGNED: DJB — TECHNICIAN: BCG — CHECKED: DJB

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND. WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 5767 GRID J2	
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

TREE CONSERVATION PLAN-TYPE 2

GALILEE BAPTIST CHURCH

WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'
SHEET 2 OF 3
C-11
PROJECT NO. 1404-06-00

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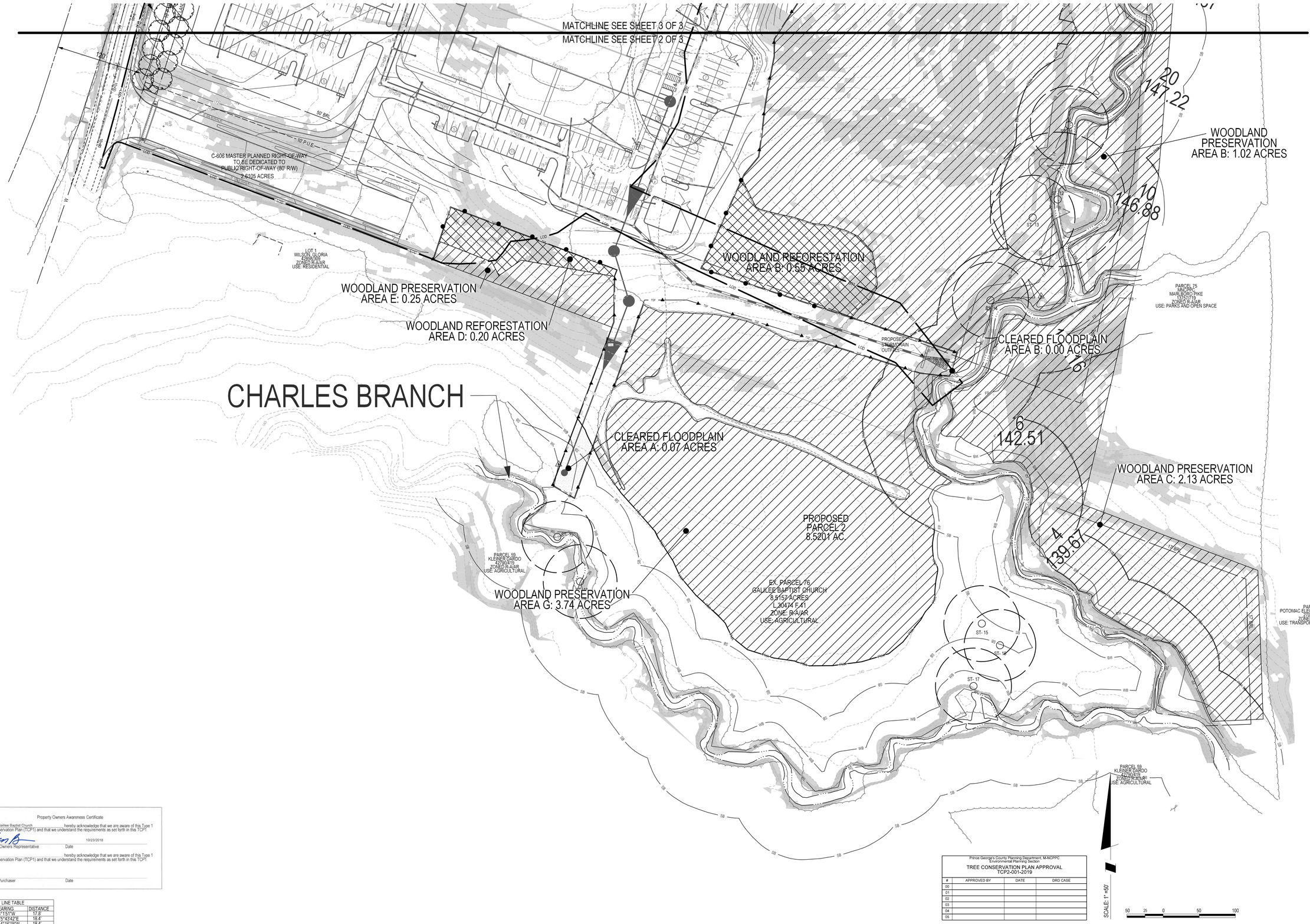

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Contract Purchaser — Date

LINE TABLE		
NUMBER	BEARING	DISTANCE
L1	S3°15'1"W	17.8'
L2	N75°43'42"E	18.4'
L3	S14°16'19"W	18.4'
L4	N84°31'32"W	18.4'

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section

TREE CONSERVATION PLAN APPROVAL
TCP2-001-2019

#	APPROVED BY	DATE	DRD CASE
00			
01			
02			
03			
04			
05			

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4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MAY 2017 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: DJB | TECHNICIAN: BCG | CHECKED: DJB

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SUITLAND, MD 20746

MAP 5767	GRID J2
TAX MAP 100,B4	ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

TREE CONSERVATION PLAN-TYPE 2

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

SHEET 3 OF 3

C-12

PROJECT NO. 1404-06-00

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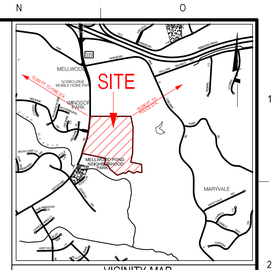

GENERAL NOTES:

1. NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON THE PROPERTY.
2. SURROUNDING LAND USES CONSISTS OF HIGH AND MEDIUM DENSITY RESIDENTIAL DEVELOPMENT AND PARK LAND.
3. WETLAND DELINEATION WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. ON FEBRUARY 19, 2016.
4. THE SITE IS LOCATED IN THE CHARLES BRANCH WATERSHED. CHARLES BRANCH AND ITS TRIBUTARIES ARE CLASSIFIED AS USE I - WATER CONTACT RECREATION - BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE).
5. NO WETLANDS OF SPECIAL STATE CONCERN ARE PRESENT ON OR PROXIMAL TO THE PROJECT SITE.

WETLAND DESCRIPTIONS

WETLAND SYSTEM	COWARDIN SYMBOL	DOMINANT VEGETATION
A/B	R3UB1/2	NOT APPLICABLE
83A-86A	PSS1C	LINDERA BENZOIN
152A-157A	PFO6/EM1C	ACER NEGUNDO, MICROSTEGIUM VIMINEA, CINNA ARUNDINACEA, BOEHMERIA CYLINDRICA
1C-8C, 1CC-7CC	PEM1C	JUNCUS TENUIS, PANICUM SP., SCHEDONORUS ARUNDINACEUS

SEE REPORT FOR COMPLETE WETLAND DESCRIPTION

SOIL NOTES:

1. SOILS ONSITE INCLUDE:

DODON FINE SANDY LOAM, 2-5% SLOPES (DfB), MODERATELY WELL DRAINED

MARR-DODON COMPLEX, 2-5% SLOPES (MnB), WELL DRAINED-MODERATELY WELL DRAINED

MARR-DODON COMPLEX, 5-10%SLOPES (MnC), WELL DRAINED-MODERATELY WELL DRAINED

MARR-DODON COMPLEX, 10-15% SLOPES (MnD), WELL DRAINED-MODERATELY WELL DRAINED

MARR-DODON COMPLEX, 15-25% SLOPES (MnE), WELL DRAINED-MODERATELY WELL DRAINED

MARR-DODON-URBAN LAND COMPLEX, 0-5% SLOPES (MoB), WELL DRAINED-MODERATELY WELL DRAINED

WESTPHALIA AND DODON SOILS, 25-40% SLOPES (WdF), WELL DRAINED-MODERATELY WELL DRAINED

WIDEWATER AND ISSUE SOILS, FREQUENTLY FLOODED (WE), POORLY DRAINED-SOMEWHAT POORLY DRAINED

2. WIDEWATER SOILS ARE IDENTIFIED AS HYDRIC SOILS BY THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS).
3. DODON FINE SANDY LOAM, 2-5% SLOPES, MARR-DODON COMPLEX, 2-5% SLOPES, AND MARR-DODON-URBAN LAND COMPLEX, 0-5% SLOPES ARE IDENTIFIED AS PRIME FARMLAND BY THE NRCS. MARR-DODON COMPLEX, 5-10% SLOPES, IS IDENTIFIED AS FARMLAND OF STATEWIDE IMPORTANCE BY THE NRCS.
4. SOIL TYPES ARE FROM WEB SOIL SURVEY FOR PRINCE GEORGE'S COUNTY, MARYLAND

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS
- PMA — PMA — PRIMARY MANAGEMENT AREA (PMA)
- FP — 100-YEAR FLOODPLAIN
- WL — WETLAND
- WB — WETLAND BUFFER
- REGULATED STREAM
- SB — STREAM BUFFER
- EPHEMERAL STREAM
- EXISTING TREELINE

NOTE: ALL FLAGGED POINTS ARE BASED ON FIELD FLAGGED POINTS THAT HAVE BEEN SURVEY LOCATED.

Eco-Science Professionals, Inc.
Consulting Ecologists
P.O. Box 5006 Glen Arm, Maryland 21057 Telephone (410) 832-2480 Fax (410) 832-2488

MD DNR Qualified Professional
USACOE Wetland Delineator
Certification # WDCP93MD0310006A
Henry A. Leskinen
Henry A. Leskinen

100 50 0 100 200

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: BCG TECHNICIAN: BCG CHECKED: DJB

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVENUE
SUITLAND, MD 20746

MAP 57G7 GRID J2
TAX MAP 100.B4
ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 205SE09
XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88
XXXX:

WETLAND DELINEATION

GALILEE BAPTIST CHURCH

WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'
C-13
SHEET 1 OF 3
PROJECT NO. 1404-06-00

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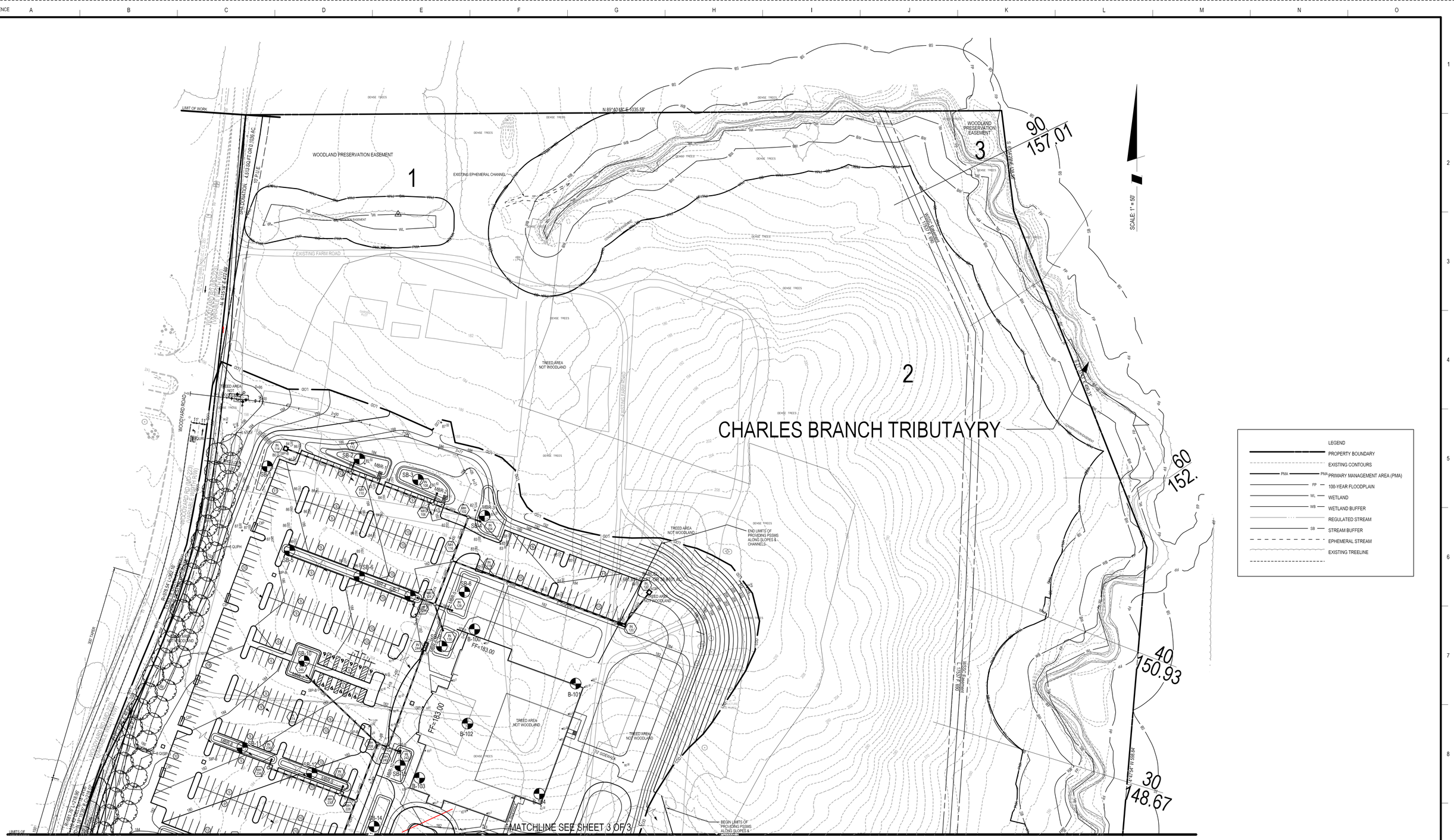

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SUITLAND, MD 20746

MAP 5767 GRID J2
TAX MAP 100,B4
ZONING CATEGORY: R-A
WSSC 200' SHEET 208SE09 209SE09
XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88
XXXX:

WETLAND DELINEATION

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'
SHEET 2 OF 3
C-14
PROJECT NO. 1404-06-00

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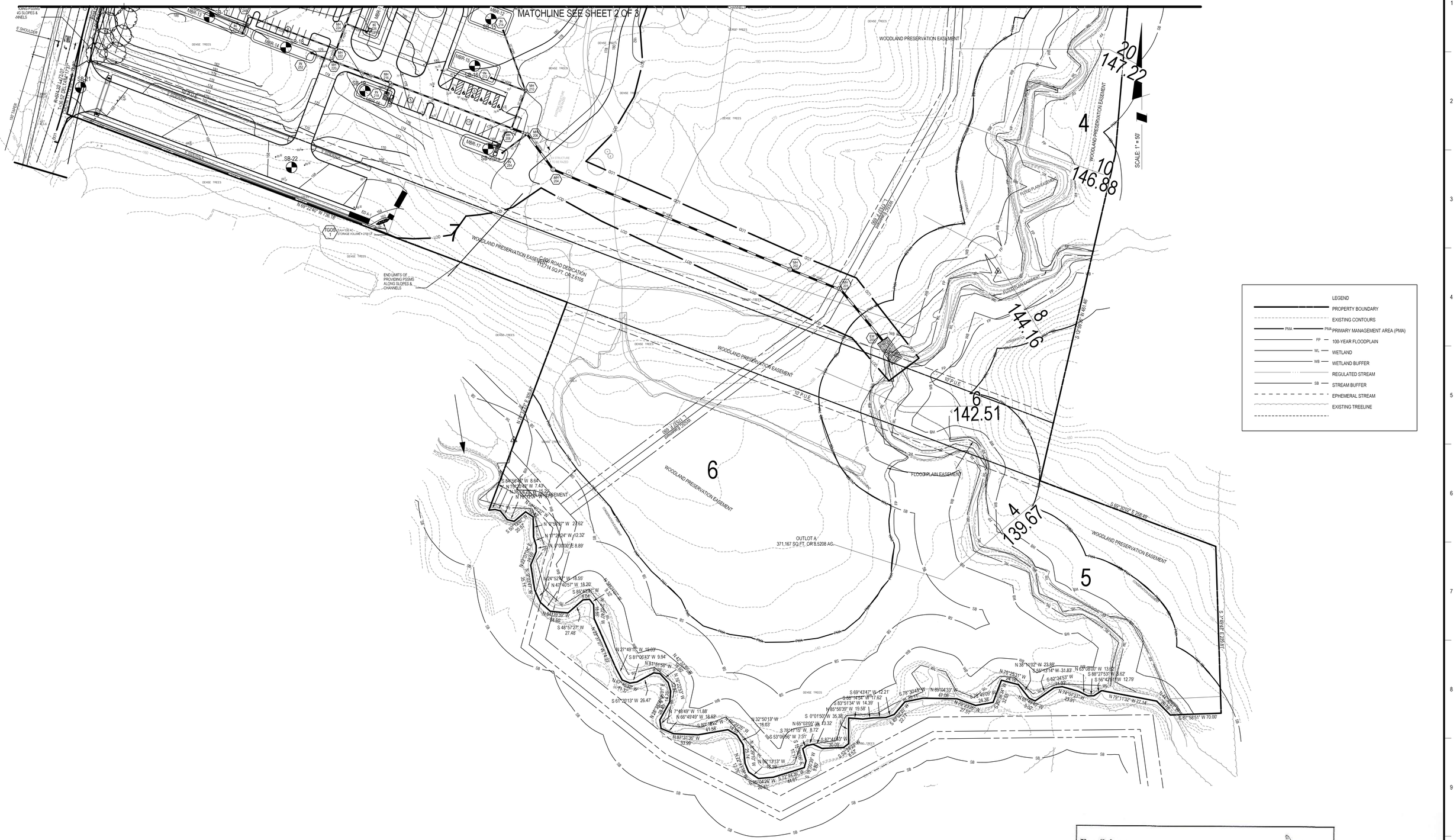
REFERENCE GRID: A B C D E F G H I J K L M N O



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SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88 | XXXX:

WETLAND DELINEATION

GALILEE BAPTIST CHURCH
WOODYARD ROAD

MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'
SHEET 3 OF 3
C-15
PROJECT NO. 1404-06-00

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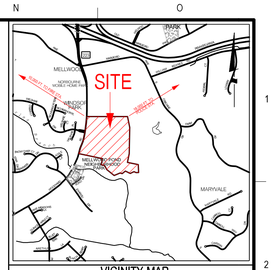
FINAL
GRADING, EROSION, AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH



VICINITY MAP
SCALE: 1"=2000'

SEQUENCE OF CONSTRUCTION

#	ITEM	STATUS	DURATION	SCHEDULED INTERVAL
1	OBTAIN GRADING, BUILDING AND ALL APPLICABLE PERMITS AND ARRANGE FOR PRE-CONSTRUCTION MEETING WITH PRINCE GEORGE'S COUNTY DPIE SEDIMENT CONTROL INSPECTOR (301) 883-3834.		(1 DAY)	WEEK 1
2	HOLD PRE-CONSTRUCTION MEETING WITH DPIE INSPECTION DIVISION AND OWNER/DEVELOPER OR REPRESENTATIVE ON-SITE.		(1/2 DAY)	WEEK 1
3	NOTIFY SEDIMENT CONTROL INSPECTOR 24 HOURS PRIOR TO START OF CONSTRUCTION.		(1 DAY)	WEEK 1
	NOTE: PRIOR TO ANY CLEARING AND GRUBBING THE LIMITS OF CLEARING MUST BE CLEARLY MARKED IN THE FIELD.		(1 DAY)	WEEK 1
4	WITH PERMISSION FROM INSPECTOR, CLEAR AND GRUB AS NEEDED TO INSTALL SCE AND PERIMETER CONTROLS (SUPER SILT FENCE), AS SHOWN. STOCKPILE DIRT IN DESIGNATED LOCATIONS OR EXCAVATED MATERIAL WHICH CANNOT BE STORED ONSITE SHALL BE HAULED TO A SITE WITH ACTIVE AND APPROVED SEDIMENT CONTROL PLAN.		(2 WEEKS)	WEEK 1 THRU 2
	NOTE: THREE DAY STABILIZATION AND STABILIZATION MATTING IS REQUIRED FOR ALL HIGHLY ERODIBLE AREAS AS DELINEATED ON PLAN.			
	NOTE: STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.			
	ROUGH GRADING			
5	CLEAR AND GRUB SITE ONLY AS NEEDED TO INSTALL TRAPS 1 & 2 PER PLAN AND TEMPORARY STORM DRAIN PIPE. INSTALL TRAPS 1 & 2, ASSOCIATED EARTH DIKES AND CONTROLS AS SPECIFIED FOR EACH TRAP ON PLAN. INSTALL STORM DRAIN ENDWALL, MANHOLE, AND PIPES FOR THE OUTFALL FOR TRAP #2. RAISE EARTH DIKES AS NEEDED TO MAINTAIN POSITIVE DRAINAGE TO THE TRAPS. STOCKPILE DIRT IN DESIGNATED LOCATIONS.		(6 WEEKS)	WEEK 3 THRU 8
6	AS CLEARING, GRADING AND TRAP INSTALLATION ACTIVITIES ARE COMPLETED, IMMEDIATELY STABILIZE WITH SEED AND/OR MULCH AS REQUIRED.		(2 WEEKS)	WEEK 9 THRU 10
7	INSTALL ANY REMAINING SEDIMENT CONTROL DEVICES (SILT & SUPER SILT FENCES) AS REQUIRED. WITH PERMISSION FROM INSPECTOR, BEGIN ROUGH GRADING ACTIVITIES & STABILIZE PER TEMPORARY SEEDING SPECIFICATIONS.		(3 WEEKS)	WEEK 11 THRU 13
8	COMPLETE ROUGH GRADING OPERATIONS & STABILIZE PER TEMPORARY SEEDING SPECIFICATIONS.		(6 WEEKS)	WEEK 14 THRU 19
	FINE GRADING			
9	BEGIN FINE GRADING OPERATIONS STABILIZE PER SEEDING SPECIFICATIONS.		(2 WEEKS)	WEEK 20 THRU 21
10	BEGIN INSTALLATION OF STORM DRAIN AND ASSOCIATED INLET PROTECTION DEVICES. **DO NOT INSTALL ESD DEVICES AT THIS TIME.** AS THE SITE IS BROUGHT TO PROPOSED GRADE ELEVATIONS, THE ESD DEVICES' LOCATIONS ARE TO IMMEDIATELY BE PROTECTED WITH SILT FENCE PER PLAN.		(3 WEEKS)	WEEK 22 THRU 24
11	BEGIN WATER, SEWER AND UNDERGROUND UTILITY INSTALLATIONS.		(3 WEEKS)	WEEK 25 THRU 27
12	BEGIN BUILDING CONSTRUCTION, BASE PAVING AND CURB & GUTTER OPERATIONS.		(3 WEEKS)	WEEK 28 THRU 30
13	COMPLETE STORM DRAIN, WATER, SEWER AND UTILITY INSTALLATION		(24 WEEKS)	WEEK 31 THRU 54
14	BEGIN BASE PAVING OPERATIONS.		(3 WEEKS)	WEEK 52 THRU 54
15	ONCE ALL STORM DRAIN TO NORTHERN OUTFALL IS INSTALLED WITH THE ASSOCIATED INLET PROTECTION DEVICES THEN AS THE CONTRIBUTING AREAS TO TRAP 1 IS STABILIZED AND WITH THE APPROVAL OF THE INSPECTOR, BEGIN REMOVAL OF TRAP 1. **NOTE: AS INDIVIDUAL SEDIMENT TRAPS ARE FILLED AND STABILIZED, COMPLETE ANY REMAINING STABILIZATION AND REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES. STABILIZE THE DISTURBED AREA WITH SEED AND MULCH. ALL ACCUMULATED SEDIMENT FROM THE TRAPS IS TO BE REMOVED AND DISPOSED OF BY SPREADING ON-SITE. REMOVE ANY AND ALL SILT FENCE, STONE, DEBRIS, ETC. FROM WITHIN THE TRAP AREA. FILL IN WITH SUITABLE MATERIAL AND GRADE PER CONVERSION PLAN.**		(3 WEEKS)	WEEK 52 THRU 55
16	ONCE ALL STORM DRAIN TO SOUTHERN OUTFALL IS INSTALLED WITH THE ASSOCIATED INLET PROTECTION DEVICES THEN AS THE CONTRIBUTING AREAS TO TRAP 2 IS STABILIZED AND WITH THE APPROVAL OF THE INSPECTOR, BEGIN REMOVAL OF TRAP 2. REMOVE TEMPORARY STORM DRAIN PIPE FROM TRAP #2 OUTFALL TO PROPOSED MANHOLE STRUCTURE.		(3 WEEKS)	WEEK 56 THRU 58
17	COMPLETE BUILDING CONSTRUCTION AND FINAL PAVING OPERATIONS.		(32 WEEKS)	WEEK 59 THRU 90
18	STABILIZE ANY REMAINING AREAS PER THE PERMANENT SEEDING SPECIFICATIONS. ONCE THE CONTRIBUTING AREA TO EACH ESD DEVICE (MICROBIORETENTIONS & PERMEABLE PAVEMENT) HAS BEEN STABILIZED AND ALL UTILITIES CROSSING THE DEVICES CONSTRUCTED, THE ESD DEVICES MAY BE INSTALLED PER STORM DRAIN PLAN. MARK AND PROTECT ALL ESD AREAS BY WRAPPING SILT FENCE AROUND THE AREA. ESD DEVICES MUST BE PROTECTED WITH SILT FENCE AS SHOWN AT ALL TIMES. ONCE ESD DEVICES HAVE BEEN INSTALLED, NO CONSTRUCTION THROUGH OR ON THEM MAY TAKE PLACE. MARK AND PROTECT ALL ESD AREAS BY WRAPPING SILT FENCE AROUND THE AREA. **ESD DEVICES MUST BE PROTECTED WITH SILT FENCE AS SHOWN AT ALL TIMES.**		(8 WEEKS)	WEEK 90 THRU 97
19	AS ALL DISTURBED AREAS ARE STABILIZED AND WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, BEGIN REMOVAL OF REMAINING SEDIMENT CONTROLS. STABILIZE EACH DEVICE'S AREA UPON REMOVAL		(4 WEEKS)	WEEK 98 THRU 101
20	CONTACT THE INSPECTOR FOR APPROVAL AND END OF CONSTRUCTION.		(1 DAY)	WEEK 102

LOCATION MAP
SCALE: 1" = 200'

NOTE TO CONTRACTOR:
THREE DAY STABILIZATION AND STABLIZATION MATTING IS REQUIRED IN ALL HIGHLY ERODIBLE SLOPE AREAS DELINEATED ON DRAINAGE AREA MAPS

INDEX OF SHEETS

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COMPOSITE, OVERLAY PLAN, GENERAL NOTES & LEGEND	2
DRAINAGE AREA & SOILS MAP - ROUGH GRADING	3
PLAN VIEW / ROUGH GRADING	4-8
DRAINAGE AREA & SOILS MAP - FINE GRADING	9
PLAN VIEW / FINE GRADING	10-14
TRAP REMOVAL	15
DETAILS, STANDARDS & SPECIFICATIONS	16
DETAILS	17-18

NARRATIVE

. THIS PROJECT WILL DEVELOP APPROXIMATELY 21.63 ACRES OF THE EXISTING SITE WHICH CURRENTLY CONSISTS OF WOODS IN GOOD CONDITION AND LAND DEVELOPED AND USED AS GARDEN PLOTS WITH AN OLD BARN.

ONSITE DRAINAGE FLOWS TO THE EXISTING STREAM AND WETLANDS ON SITE WHICH FLOW TO THE CHARLES BRANCH AND EVENTUALLY OUTFALL TO THE PATUXENT RIVER. A COUNTY FLOODPLAIN HAS BEEN DEFINED IN THE SE CORNER OF THE SITE. THE SITE IS NOT WITHIN TIER II WATERS, NOR IS IT WITHIN A TMDL FOR NUTRIENTS OR SEDIMENTS. THE SITE TOPOGRAPHY HAS STEEP SLOPES AS WELL AS HIGHLY ERODIBLE SLOPES WITHIN MOST OF THE SITE TO BE DEVELOPED. AS A RESULT OF THESE ENVIRONMENTAL CONDITIONS, ENHANCED CONTROLS ARE REQUIRED. SUPER SILT FENCE WILL BE USED ALONG THE PERIMETER TO PROTECT THE SITE FROM THE DISTURBANCE AND THREE DAY STABILIZATION WITH STABILIZATION MATTING WILL BE USED AROUND THE HIGHLY ERODIBLE SLOPES AREAS.

CONTROL OF CONSTRUCTION EQUIPMENT AND VEHICLES SO THAT THEY DO NOT ENTER AREAS RESERVED FOR FUTURE STORMWATER INFILTRATION OR RECHARGE IS NECESSARY. THIS IS PROVIDED BY RESTRICTING INSTALLATION OF ALL ESD DEVICES UNTIL THE END OF CONSTRUCTION AND PROTECTING THE AREAS WITH SILT FENCES.

DEED REFERENCE NO.: L:30474 F:00041

MDE NOI PERMIT #: REFERENCE #XXXXXXXXX
ISSUE DATE: XX/XX/2015
EXPIRATION DATE: XX/XX/2020

NOTE: ALL PROTECTED AREAS SHALL BE MARKED (FLAGGING OR PAINTING) IN THE FIELD PRIOR TO ANY LAND DISTURBING ACTIVITY.

DRAINAGE CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE GRADING ORDINANCE OF PRINCE GEORGE'S COUNTY, MARYLAND; AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

UTILITY CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM.

TIMOTHY H. DAVIS — DATE:
MD. RLA 2002

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I/WE HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ANY CLEARING, GRADING, DRAINAGE, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND THE ENFORCEMENT AUTHORITY SHALL HAVE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATIONS."

SIGNATURE _____ DATE 01/10/2024
NAME (PRINTED) Ken Bone TITLE Deacon/Project Manager
PH# (202) 438-4227 FIRM Galilee Baptist Church
COMPLETE ADDRESS 2101 ShadySide Avenue, Suitland, MD 20746

CONSULTANT'S CERTIFICATION

"I CERTIFY THAT THIS ENVIRONMENTAL SITE DEVELOPMENT GRADING, EROSION AND SEDIMENT CONTROL PLAN REPRESENTS ALL SIGNIFICANT NATURAL RESOURCES AND IS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS ENVIRONMENTAL SITE DEVELOPMENT GRADING, EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER".

SIGNATURE _____ MD. LICENSE# _____
NAME (PRINTED) _____ DATE _____

PRINCE GEORGE'S SOIL CONSERVATION DISTRICT
FINAL APPROVAL
GRADING, EROSION AND SEDIMENT CONTROL
FSC# 54-18 EXPIRATION DATE
POND (PP#)
DISTRICT SIGNATURE APPROVAL DATE

DPIE "G" PERMIT NO.:

WETLAND NOTE

IT IS THE APPLICANT'S RESPONSABILITY TO OBTAIN ANY STATE PERMITS, IF REQUIRED, FOR ANY CONSTRUCTION ACTIVITY COVERED BY THIS PLAN WHICH IMPACTS A STATE REGULATED WETLAND. ANY CHANGES TO PLANS FOR THIS DEVELOPMENT, WHETHER REQUIRED BY THE STATE OR INITIATED BY THE APPLICANT TO MEET STATE REQUIRMENTS, MUST BE APPROVED BY POSCD.

THIS PLAN IS FOR MAINTENANCE AND CONSTRUCTION OF SEDIMENT AND EROSION CONTROL MEASURES ONLY

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. _____ EXPIRATION DATE:

BID SET 01-05-2024

COVER SHEET

SOLTESZ, LLC
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NO.	REVISIONS	BY	DATE

DATE: DECEMBER 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CJV | TECHNICIAN: CJV | CHECKED: THD

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CONTACT NAME: PAT RICKER

MAP _____ GRID _____
TAX MAP 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET 208 SE 09 209 SE 09
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD29

1" = 200'
SHEET 1 OF 18
C-16
PROJECT NO. 1404-06-00

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

P:\14040600\ENGINEER\SEDCON\Final\FG\Scp_FinFG_01.sht Scale= 200.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg PenTbl= TEXT_SUB.tbl 2/2/2024 4:51:43 PM

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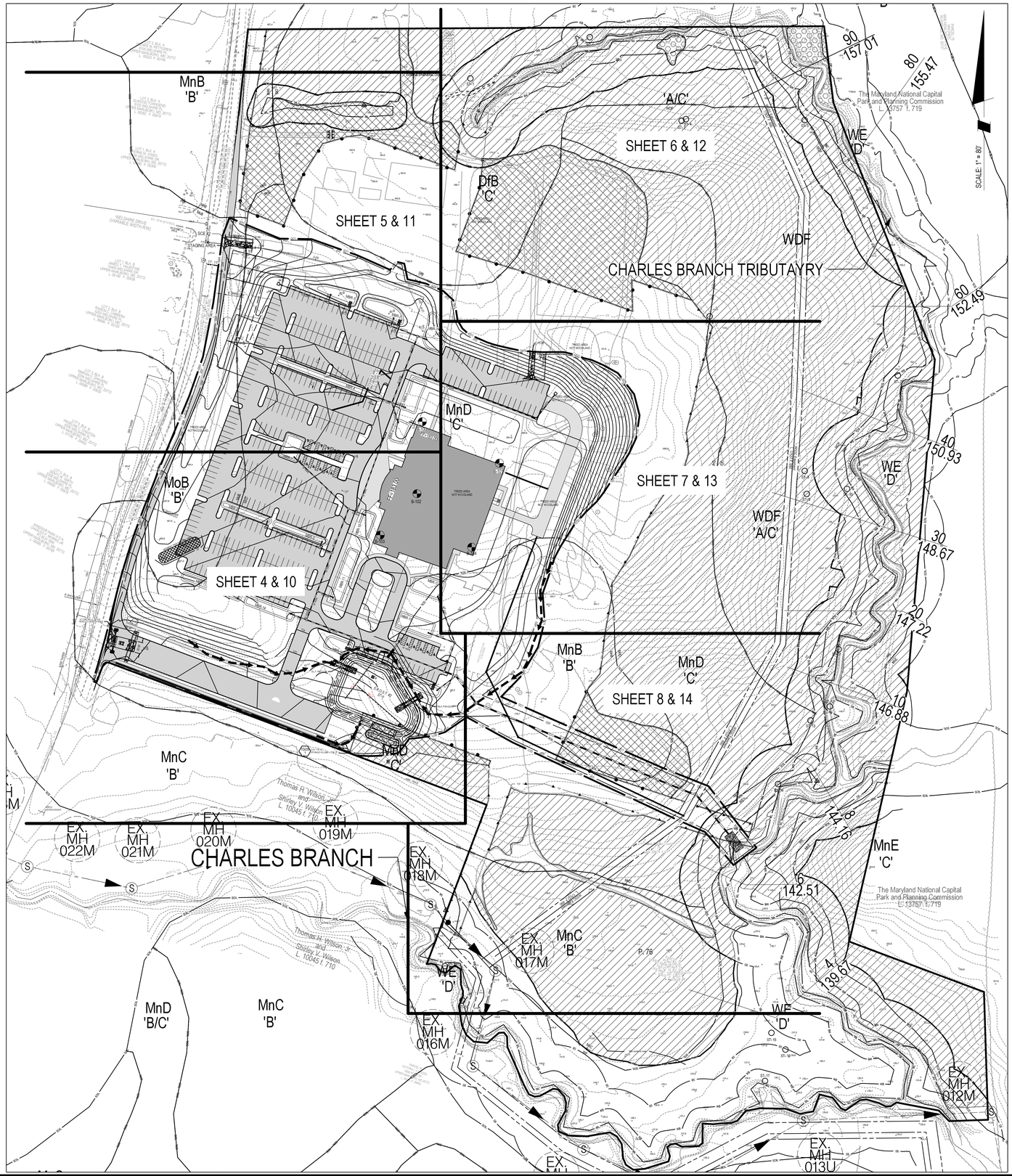

GENERAL NOTES

1. FOR ADDITIONAL REFERENCE, THE PERMITEE/CONTRACTOR SHOULD CONSULT THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL "(HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS") FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) AND THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT "SOIL EROSION AND SEDIMENT CONTROL POND SAFETY MANUAL PRINCE GEORGE'S COUNTY, MARYLAND".
2. ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED (AS APPLICABLE) PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE COUNTY INSPECTOR.
3. ALL SEDIMENT CONTROL DEVICES SHALL BE FUNCTIONAL AT THE END OF EACH DAY.
4. EROSION AND SEDIMENT PRACTICES, AND THE SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT, BY THE CONTRACTOR OR OTHER RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY. THE PERMITEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITEE OR ANY OTHER PERSON.
5. ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.
6. IF THE CONSTRUCTION SCHEDULE PER THE APPROVED DOCUMENTS CANNOT BE MET, A REVISED SCHEDULE MUST BE PROVIDED TO AND APPROVED BY THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT (PGSCD).
7. PROTECT ALL TREES TO BE PRESERVED IN ACCORDANCE WITH THE LATEST APPROVED TREE CONSERVATION PLAN, DURING CONSTRUCTION OPERATIONS.
8. ALL ADJUSTMENTS (FIELD OR OTHERWISE) TO EROSION AND SEDIMENT CONTROL PRACTICES PER AN APPROVED PLAN SHALL BE COORDINATED WITH THE COUNTY INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION. A FORMAL REVISION OF THE APPROVED DOCUMENTS MAY BE NECESSARY DEPENDING ON PROPOSED ADJUSTMENTS OR MODIFICATION TO BE COORDINATED WITH THE COUNTY INSPECTOR.
9. THE PERMITEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL LOCAL, STATE (MOSH), AND FEDERAL (OSHA) CONSTRUCTION SAFETY REGULATIONS ARE FOLLOWED DURING THE IMPLEMENTATION OF THIS PLAN.
11. PROVIDE ADEQUATE CONTROL OF DUST BY WATERING, OR OTHER CONTROL METHODS ACCEPTABLE TO THE COUNTY INSPECTOR IN CONFORMANCE WITH APPLICABLE AIR POLLUTION ORDINANCE.
12. DEWATERING AND REMOVAL OF ACCUMULATED SEDIMENT IN A TRAP OR BASIN SHALL BE PLACED AND STABILIZED ONSITE, REMOVED OFFSITE TO A LOCATION WITH AN APPROVED AND ACTIVE SEDIMENT AND EROSION CONTROL PLAN, BUT NEVER DEPOSITED WITHIN A FLOODPLAIN. NOTIFY INSPECTOR OF INTENDED ACTIONS.
13. FENCE ALL SEDIMENT TRAPS AND BASINS WITH SEMI-PERMANENT FENCE NOT LESS THAN 42" IN HEIGHT WITH OPENINGS NOT TO EXCEED 3" IN WIDTH. ANCHOR FENCE AT SPACING NOT TO EXCEED 8'.
14. THE THROATS OF ALL STORM DRAINAGE INLETS SHALL BE PROTECTED AND KEPT FREE OF ANY DEPOSITS OF SEDIMENT UNLESS UTILIZED AS A CONVEYANCE SYSTEM FOR GRADING, EROSION AND SEDIMENT CONTROL, I.E. THROUGH USE OF INLET PROTECTION PRACTICES OR DEVICES UNTIL THE UPHILL AREAS HAVE BEEN STABILIZED AND THE COUNTY INSPECTOR HAS APPROVED SUCH REMOVAL.
15. TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS".
16. THE TERM "VEGETATIVE STABILIZATION"ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF LIME AND FERTILIZER IN ACCORDANCE WITH SECTION B-4 "STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION".
17. SEDIMENT CONTROL DEVICES SHALL BE REMOVED. WITH PERMISSION OF THE COUNTY INSPECTOR, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.

SEDIMENT CONTROL PLAN LEGEND

10/08

	EXISTING	PROPOSED
DRAINAGE DIVIDE		
EARTH DIKE	EX ED A-2	ED A-2
INLET BLOCKING	IB	IB
INLET PROTECTION	IP	IP
LIMITS OF DISTURBANCE	LOD	LOD
MOUNTABLE BERM		
PIPE SLOPE DRAIN	PSD - 15	PSD - 15
SAFETY FENCE	X X	X X
SILT FENCE	SF	SF
STABILIZED CONSTRUCTION ENTRANCE	SCE	SCE
SUMP PIT	SP	SP
SUPER SILT FENCE	SSF	SSF
STEEP SLOPES (15-25%)		
STEEP SLOPES (>25%)		
HIGHLY ERODIBLE SOILS (W/ SLOPES >15%		
MICRO BIORETENTION		
WOODLAND CONSERVATION		

GENERAL NOTES FOR SEDIMENT CONTROL

1. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED EASEMENTS, RIGHT AND/OR RIGHTS-OF-WAY PURSUANT TO THE DISCHARGE FROM THE EROSION AND SEDIMENT CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS AND GRADING OR OTHER WORK TO BE PERFORMED ON ADJACENT OR DOWNSTREAM PROPERTIES AFFECTED BY THIS PLAN.
2. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) AND B) SEVEN (7) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THE IN-PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.
3. THE OWNER/DEVELOPER OR REPRESENTATIVE SHALL REQUEST THAT THE INSPECTION AUTHORITY APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT AND SHALL OBTAIN WRITTEN INSPECTION APPROVALS BY THE INSPECTOR AT THE FOLLOWING STAGES IN THE DEVELOPMENT OF THE SITE
   A) PRIOR TO THE START OF EARTH DISTURBANCE;
   B) UPON COMPLETION OF INSTALLATION OF TREE PROTECTION DEVICES, FOLLOWED BY THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS. PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTOR IS MADE;
   C) UPON COMPLETION OF STRIPPING, THE STOCKPILING OF TOPSOIL, THE CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES, DISPOSAL OF ALL WASTE MATERIAL AND PREPARATION OF THE GROUND;
   D) UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS;
   E) PRIOR TO THE START OR ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT
   F) UPON COMPLETION OF SEDIMENT CONTROL PRACTICES; AND
   G) UPON COMPLETION OF FINAL GRADING, REFORESTING, PERMANENT DRAINAGE AND EROSION CONTROL FACILITIES INCLUDING ESTABLISHED GROUND COVERS AND PLANTING, AND ALL OTHER WORK OF THE BUILDING PERMITS.
4. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES BEFORE REMOVAL OF CONTROLS.
5. ALL PERMITS UNDER AN EROSION AND SEDIMENT CONTROL PLAN MUST AND CAN ONLY BE ISSUED TO THE OWNER/DEVELOPER THAT SIGNS THE CERTIFICATION ON THE PLAN. THE OWNER/DEVELOPER THAT SIGNS THE CERTIFICATION ON AN EROSION AND SEDIMENT CONTROL PLAN IS THE RESPONSIBLE PARTY REGARDLESS OF ANY SALE OF THE PROPERTY OR WORK OF SUBCONTRACTORS. EROSION AND SEDIMENT CONTROL PLANS ARE APPROVED FOR ONE OWNER/DEVELOPER ONLY.
6. PGSCD APPROVAL OF A EROSION AND SEDIMENT CONTROL PLAN, PURSUANT TO MEETING LOCAL PERMIT REQUIREMENT FOR GRADING, BUILDING OR STREET PERMITS, ETC., IS VALID ONLY WHEN THE WORK TO BE PERFORMED UNDER THE PERMIT IS THE SAME AS (NO MORE/NO LESS THAN) THAT CONTAINED IN THE PLAN AS APPROVED BY THE PGSCD.
7. ANY CHANGES OR MODIFICATIONS TO AN APPROVED EROSION AND SEDIMENT CONTROL PLAN, NOT APPROVED BY THE PGSCD, SHALL INVALIDATE THE PLAN APPROVAL.
8. OFFSITE BORROW OR SPOIL AREAS MUST HAVE AN APPROVED AND ACTIVE EROSION AND SEDIMENT CONTROL PLAN.
9. TEMPORARY DESIGNED SEDIMENT BASINS SHALL BE REMOVED WITHIN 36 MONTHS AFTER THE BEGINNING OF CONSTRUCTION OF THE BASIN.
10. ON SMALL POND APPROVALS:
   (A) THE OWNER OR ENGINEER WILL NOTIFY PGSCD PROMPTLY IN WRITING WHEN CONSTRUCTION IS BEGUN AND WHEN CONSTRUCTION IS COMPLETED.
   (B) THE PROJECT SHALL BE CONSTRUCTED UNDER THE SUPERVISION OF THE ENGINEER-IN-CHARGE. WITHIN 30 DAYS OF THE COMPLETION OF CONSTRUCTION, THE ENGINEER-IN-CHARGE THAT DESIGNED THE STRUCTURE SHALL PROVIDE PGSCD WITH AN AS-BUILT PLAN AND SHALL CERTIFY, WITH THE ENGINEER'S SEAL, THAT THE MD378 POND WAS CONSTRUCTED AS SHOWN ON THE AS-BUILT PLANS.
   (C) THE APPROVAL IS VALID ONLY FOR USE BY THE APPLICANT AND MAY NOT BE TRANSFERRED TO ANOTHER UNLESS WRITTEN APPROVAL FOR SUCH TRANSFER IS OBTAINED FROM PGSCD.
11. DISTURBED SURFACE AREA 21.63 AC
    VEGETATIVELY STABILIZED AREA 8 AC
    VOLUME OF SPOIL MATERIAL 0 CU YD
    VOLUME OF CUT 650286 CU YD
    VOLUME OF BORROW MATERIAL 0 CU YD
    VOLUME OF FILL 12402 CU YD
12. LIST PREDOMINANT SOIL TYPES AND GENERAL DESCRIPTION PER PGSCD SOIL SURVEY:
    DfB - DODON FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES
    MnD - MARR-DODON COMPLEX, 10 TO 15 PERCENT SLOPES - (HIGHLY ERODIBLE)
    MnB - MARR-DODON COMPLEX, 2 TO 5 PERCENT SLOPES
    MoB - MARR-DODON-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES
    WDF - WESTPHALIA AND DODON SOILS, 25 TO 40 PERCENT SLOPES - (HIGHLY ERODIBLE)
    WE - WIDEWATER AND ISSUE SOILS, FREQUENTLY FLOODED

NOTE TO CONTRACTOR:

THREE DAY STABILIZATION AND STABLIZATION MATTING IS REQUIRED IN ALL HIGHLY ERODIBLE SLOPE AREAS DELINEATED ON DRAINAGE AREA MAPS. SOILS MnD, AND WDF ARE HIGHLY ERODIBLE AT SLOPES GREATER THAN 5% AND ARE MARKED ON SHEET 3.

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Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: DECEMBER 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CJV | TECHNICIAN: CJV | CHECKED: THD

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND. WELL IN ADVANCE OF THE START OF EXCAVATION, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

COMPOSITE, OVERLAY PLAN, GENERAL NOTES AND LEGEND

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 80'
SHEET C-17
2 OF 18
PROJECT NO. 1404-06-00

REFERENCE GRID

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

PROP. POI A
D.A. = A31,810 S.F. / 9.91 Ac.
(20,208 S.F. FROM EX. POI B/
18,810 S.F. FROM EX. POI C/
60,581 FROM EX. POI D)

PROP. POI C
D.A. = 26,731 S.F. / 0.61 Ac.

PROP. POI B
D.A. = 635,105 S.F. / 14.58 Ac.
(31,540 S.F. FROM EX. POI C/
323,807 S.F. FROM EX POI D)

PROP. POI D
D.A. = 44,615 S.F. / 1.02 Ac.

SCALE: 1" = 60'

MnB 'B'
DfB 'C'
'A/C'
WE 'D'
WDF
MnB 'C'
WDF 'A/C'
MnB 'B'
MnD 'C'
MnC 'B'
MnD "C"
MnE 'C'

WELSHIRE DRIVE (VARIABLE WIDTH R/W)

LOT 3, BLK. A
DENISE M. SETTGREN
8100 WELSHIRE PL
UPPER MARLBORO, MD. 20772
L. 05225 F. 00145

LOT 2, BLK. A
ELWOOD TOWNSEND
8102 WELSHIRE PL
UPPER MARLBORO, MD. 20772
L. 06082 F. 00819

LOT 1, BLK. A
VERNIE LA' JONES
8108 WELSHIRE DR
UPPER MARLBORO, MD. 20772
L. 06234 F. 00356

LOT 1, BLK. B
JAMES T. VALENTINE
8101 WELSHIRE DR
UPPER MARLBORO, MD. 20772
L. 06146 F. 00556

LOT 2, BLK. B
RAMON A. CABRERA
8103 WELSHIRE PL
UPPER MARLBORO, MD. 20772
L. 39680 F. 00105

LOT 3, BLK. B
MARLON D. BRIGGS
8104 WELSHIRE DR
UPPER MARLBORO, MD. 20772
L. 06082 F. 00629

LOT 4, BLK. B
ANDREW E. CHERRY
8106 WELSHIRE DR
UPPER MARLBORO, MD. 20772
L. 07152 F. 00620

LOT 5, BLK. B
DAVID N. OAKES
8108 WELSHIRE DR
UPPER MARLBORO, MD. 20772
L. 06082 F. 00878

WINDSOR PARK H.O.A.
C/O MR. ARNOLD A. ALLEN, PRESIDENT
UPPER MARLBORO, MD. 20772
L. 04656 F. 00459

EXISTING FARM ROAD

EXISTING EPHEMERAL CHANNEL

SCE #2
STAGING AREA

BEGIN LIMIT OF PROVIDING SLOPES ALONG SLOPES & CHANNELS

END LIMITS OF PROVIDING SLOPES ALONG SLOPES & CHANNELS

USDS USER-DEFINED SWALE (SEE SWALE DETAIL SHEET)

USDS USER-DEFINED SWALE (SEE SWALE DETAIL SHEET) TEMP OUTFALL E MD 210 SLOPES

Galilee Baptist Church
2101 Shadyside Ave
Liber 30474 f. 641

DRAINAGE AREA MAP LEGEND

PG 10/08

	EXISTING	PROPOSED
DRAINAGE DIVIDE		
PROPERTY LINE (SITE, ADJOINERS)		
SOILS BOUNDARY/SOILS LABEL (SOURCE: USDA SOIL SURVEY OF PRINCE GEORGE'S COUNTY VERSION 13: SEPTEMBER 30, 2015)	AdB2	CI
STORMDRAIN (LINE, INLETS, MANHOLE)	EX 15" RCP, SD, EX	15" RCP, MH 123, I 456
STRUCTURE NUMBERS	EX 111, EX 222	

60 30 0 60 120

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DRAINAGE AREA & SOILS MAP

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GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

C-18
SHEET 3 OF 18
PROJECT NO. 1404-06-00

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NO.	REVISIONS	BY	DATE

DATE: DECEMBER 2016 | CAD STANDARDS VERSION: V8 - 2000
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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP	GRID
TAX MAP: 100, B4	ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 09	
SITE DATUM: HORIZONTAL: NAD83, VERTICAL: NGVD29	

1" = 60'

P:\14040600\ENGINEER\SEDCON\Final\FG\Scp_FinFG_03.sht Scale= 60.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg PenIbl= TEXT_SUB.tbl 2/2/2024 4:51:52 PM

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MATCHLINE SHEET 5

MATCHLINE SHEET 7

MATCHLINE SHEET 8

SCALE: 1" = 30'

LOT 5, BLK. B
DENTS W. SMITH
6208 WELSHIRE PL.
UPPER MARLBORO, MD. 20772
L. 06069 F. 00878

WINDSOR PARK H.O.A.
CHARLES P. MORRIS JR.
PO BOX 1956
UPPER MARLBORO, MD. 20773
L. 06085 F. 00799

WOODYARD RD (MD 223)
(VARIABLE WIDTH R/W)

10' P.U.E.

N 27°27'36" E 49.98'

R=681.76' L=219.96'
T=110.43' DELTA=18°24'06"
CHD=N 18°15'35" E C=219.02'

SSF

SEDIMENT TRAP DISPOSAL AREA

DENSE TREES

12" CMP, 40 L.F. W/ 5X5
ROPI CLI 0 ON BOTH ENDS

50.00'

20.00'

SCE

R=971.33' L=73.01'
T=36.52' DELTA=4°17'37"
CHD=S 11°29'15" E C=73.00'

15'0" TAPER

LOD

SSS

DENSE TREES

N 69°22'40" W 736.18'

EX. 12"WW (DBB 3105) (CT. CL 22)

ONCE TRAP OUTFALL IS IN PLACE
TIE SSF TO EDGES OF RIP RAP SO
TRAP OUTFALL IS NOT BLOCKED.

WIRE FENCE

Thomas H. Wilson, Jr.
and
Shirley V. Wilson
L. 10045 f. 710

EX. MH

EX.

45LF 12" CL III RCP

D.A.=5.52 Ac.
INVERT=167.50

MAX. D.A.=3.50 Ac.

ED A-3

22LF. PSD-(2)(24)

MAX. D.A.=1.26 Ac.

ED A-2

MAX. D.A.=1.07 Ac.

19'X10' CLI
ROP II

70 L.F.

100 L.F.

S.R.O.S.T. #2
ST-II

130'

D.A.=3.80 Ac.
INVERT=172.20

30LF. PSD-(2)(24)

MAX. D.A.=3.33 Ac.

INV. IN=161.75

7-18

7-09

8-50

8-49

SCALE: 1" = 30'

SEDIMENT TRAP No.: 2	TYPE: ST II	
DRAINAGE AREA - INITIAL:		7.97 AC.
DRAINAGE AREA - INTERIM:		--
DRAINAGE AREA - FINAL:		9.53 AC.
STORAGE VOLUME REQUIRED: CLEANOUT=	8,577 Cu. Ft.	
WET =	17,154 Cu. Ft.	
DRY =	17,154 Cu. Ft.	
TOTAL =	34,308 Cu. Ft.	
STORAGE VOLUME PROVIDED: CLEANOUT=	18,435 Cu. Ft.	@ ELEV. 164.0 FT
WET =	23,529 Cu. Ft.	@ ELEV. 164.5 FT
DRY =	22,425 Cu. Ft.	@ ELEV. 166.5 FT
TOTAL =	45,954 Cu. Ft.	
SIDE SLOPES: @ STORAGE	2:1	H:V RATIO
@ EMBANKMENT	2:1	H:V RATIO
BOTTOM DIMENSIONS:	130' x 80'	
BOTTOM ELEVATION:	162.0 FT	
CLEANOUT ELEVATION:	164.0 FT	
EXISTING GROUND AT OUTLET (WET STORAGE) ELEVATION	164.5 FT	
WEIR CREST (DRY STORAGE) ELEVATION	166.5 FT	
WEIR LENGTH	30.0 FT	
TOP OF EMBANKMENT ELEVATION	167.5 FT	
EMBANKMENT TOP WIDTH	4.0 FT	
OUTLET PROTECTION - LENGTH	10.0 FT	
OUTLET PROTECTION - WIDTH	30.0 FT	
OUTLET PROTECTION - DEPTH	12.0 IN	

30 15 0 30 60

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LICENSE NO. EXPIRATION DATE:

PLAN VIEW / FINE GRADING

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'
SHEET 4 OF 18
C-19
PROJECT NO. 1404-06-00

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: DECEMBER 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CJV TECHNICIAN: CJV CHECKED: THD

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP GRID
TAX MAP 100, B4
ZONING CATEGORY: R-A
WSSC 200' SHEET 208 SE 09, 209 SE 09
SITE DATUM
HORIZONTAL: NAD83
VERTICAL: NGVD29

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CONTACT NAME: PAT RICKER

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TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

PROFESSIONAL CERTIFICATION

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LICENSE NO. _____ EXPIRATION DATE: _____

PLAN VIEW / FINE GRADING

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (19th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

C-20

SHEET 5 OF 18

PROJECT NO. 1404-06-00

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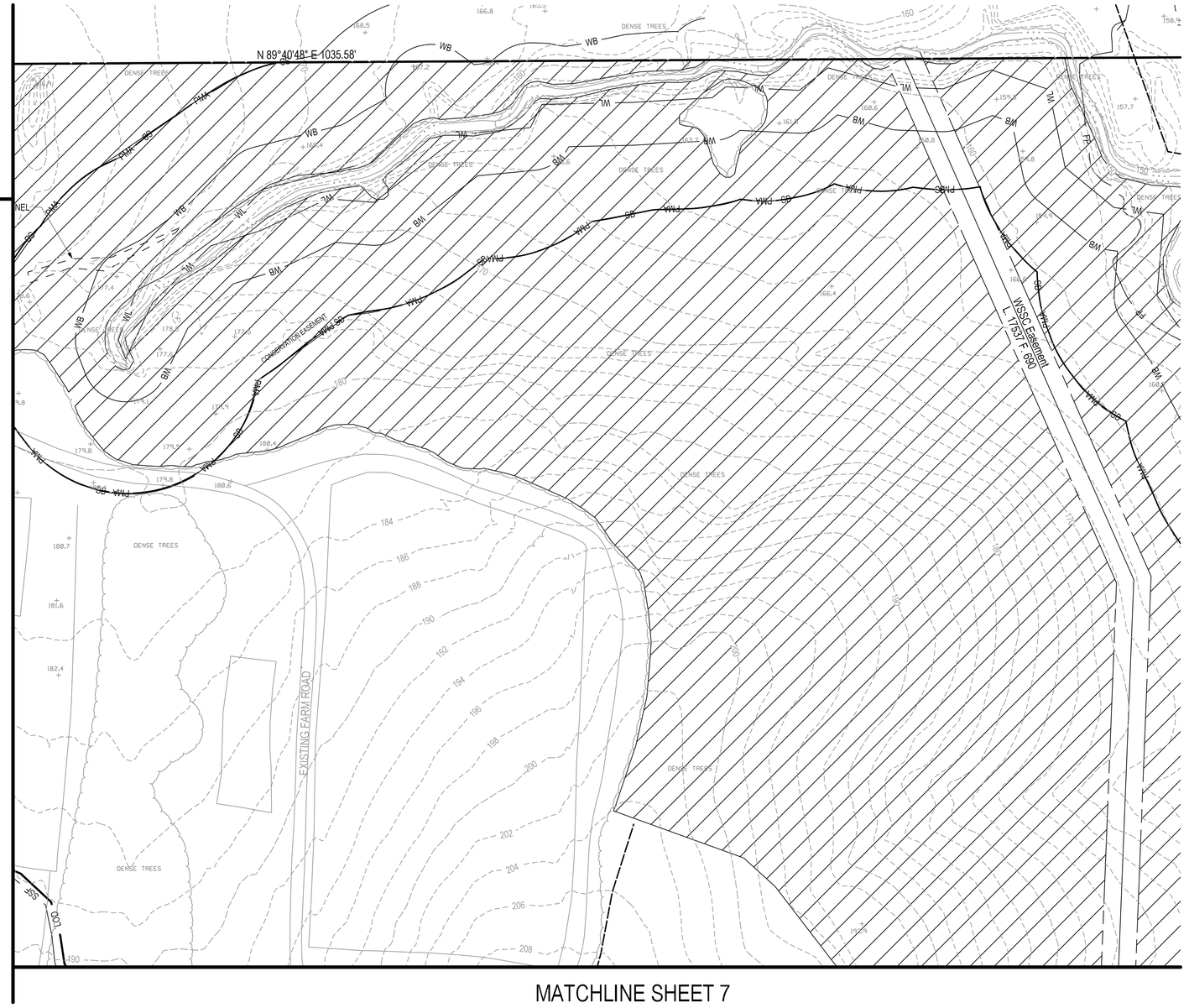

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2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

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FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

SHEET 6 OF 18

C-21

PROJECT NO. 1404-06-00

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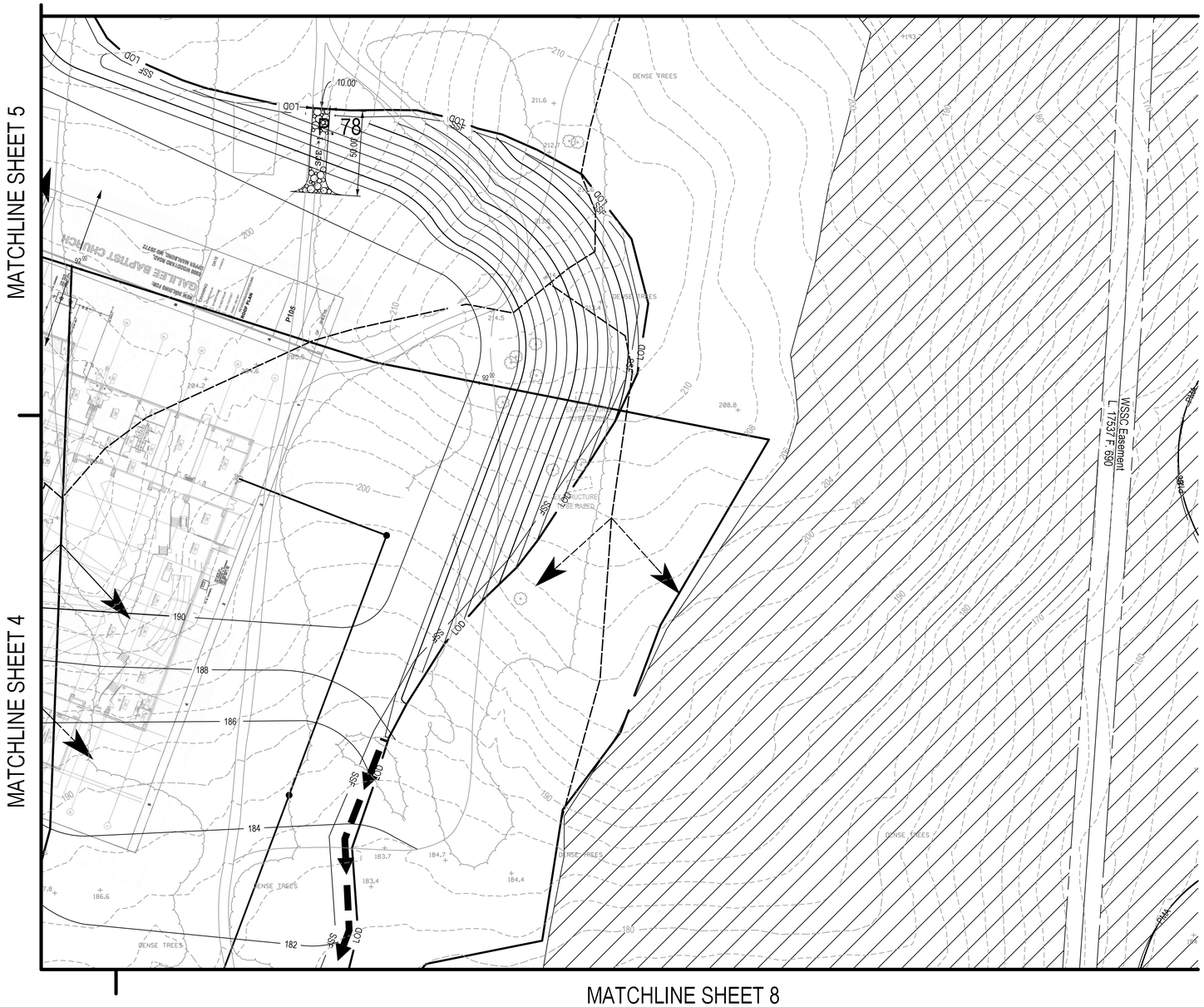
MATCHLINE SHEET 6

MATCHLINE SHEET 5

MATCHLINE SHEET 4

MATCHLINE SHEET 8



SCALE: 1" = 30'

30 15 0 30 60

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100, B4		R-A
WSSC 200' SHEET		
208 SE 09 209 SE 09		
SITE DATUM		
HORIZONTAL: NAD83		
VERTICAL: NGVD29		

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

SHEET 7 OF 18

C-22

PROJECT NO. 1404-06-00

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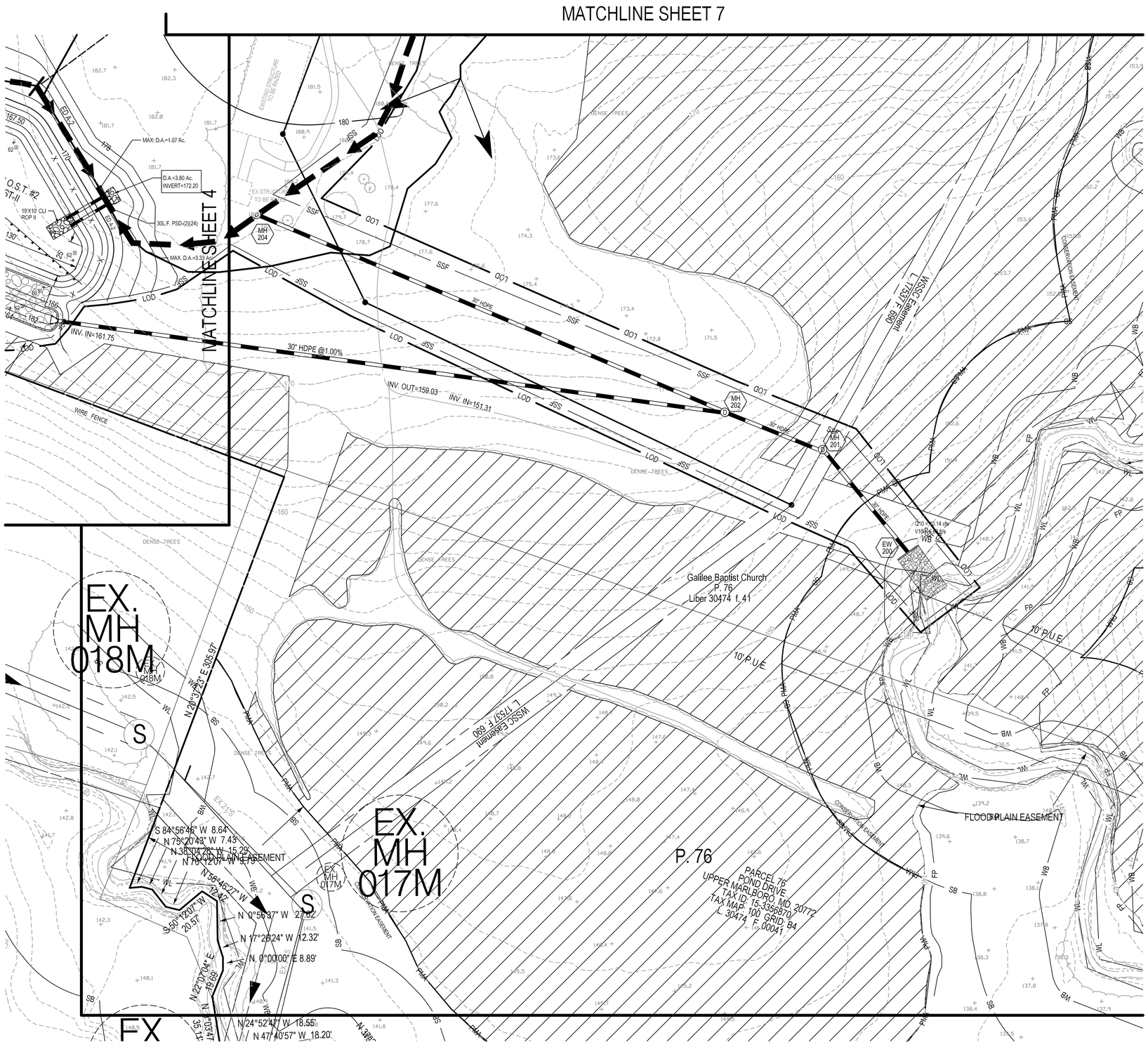

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PLAN VIEW / FINE GRADING

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

C-23

SHEET 8 OF 18

PROJECT NO. 1404-06-00

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GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP	GRID
TAX MAP: 100, B4	ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 09	
SITE DATUM: HORIZONTAL: NAD83, VERTICAL: NGVD29	

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DRAINAGE AREA & SOILS MAP - FINE GRADING

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 60'

C-24

SHEET 9 OF 18

PROJECT NO. 1404-06-00

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100, B4	R-A

WSSC 200' SHEET
208 SE 09
209 SE 09

SITE DATUM
HORIZONTAL: NAD83
VERTICAL: NGVD29

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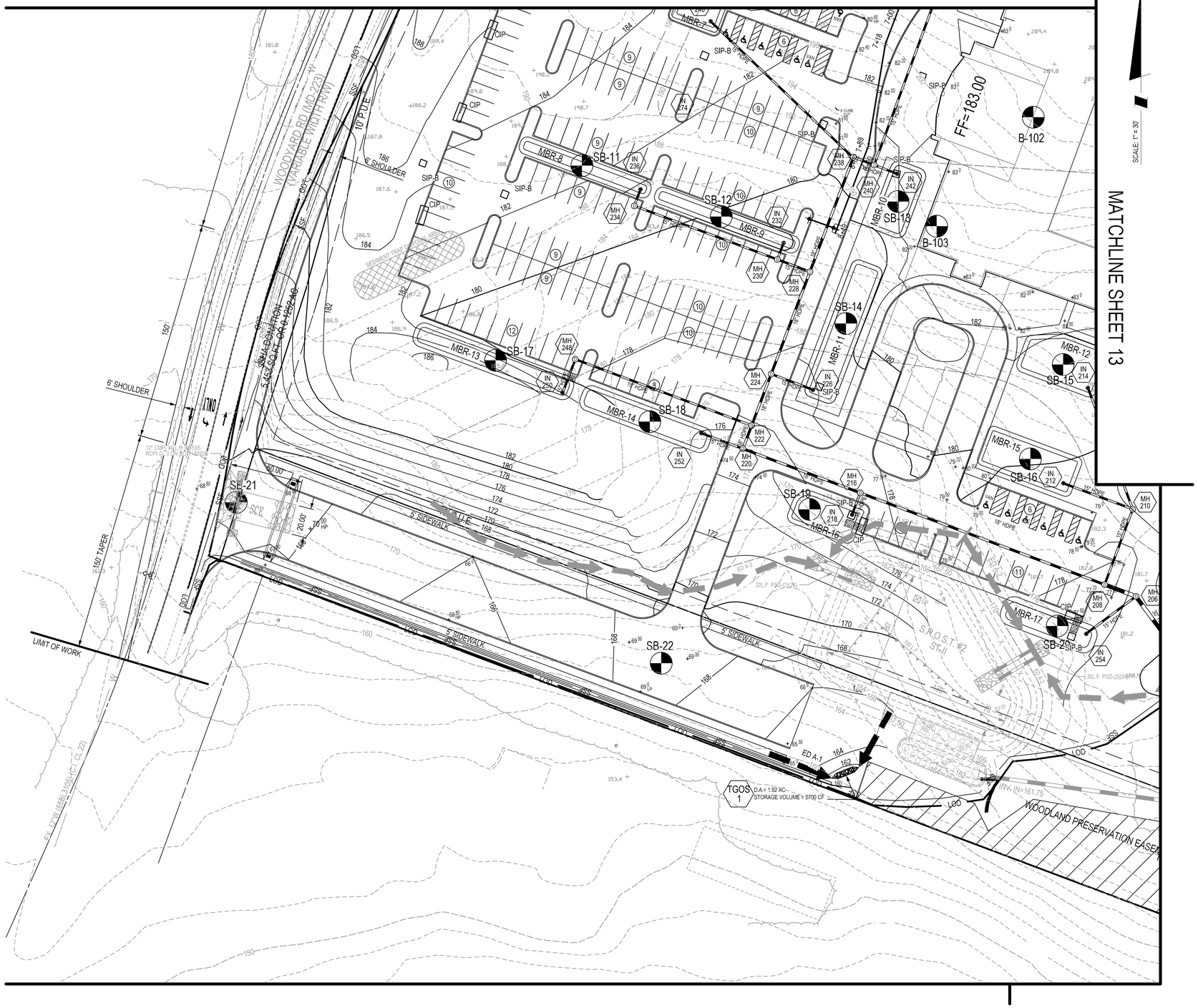
MATCHLINE SHEET 11

MATCHLINE SHEET 13



30 15 0 30 60

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SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD83	
VERTICAL: NGVD29	

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

SHEET 10 OF 18

C-25

PROJECT NO. 1404-06-00

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LICENSE NO. _____ EXPIRATION DATE:

PLAN VIEW / FINE GRADING

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FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

SHEET 11 OF 18

C-26

PROJECT NO. 1404-06-00

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TAX MAP 100, B4		R-A
WSSC 200' SHEET 209 SE 09 209 SE 09		
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD29		

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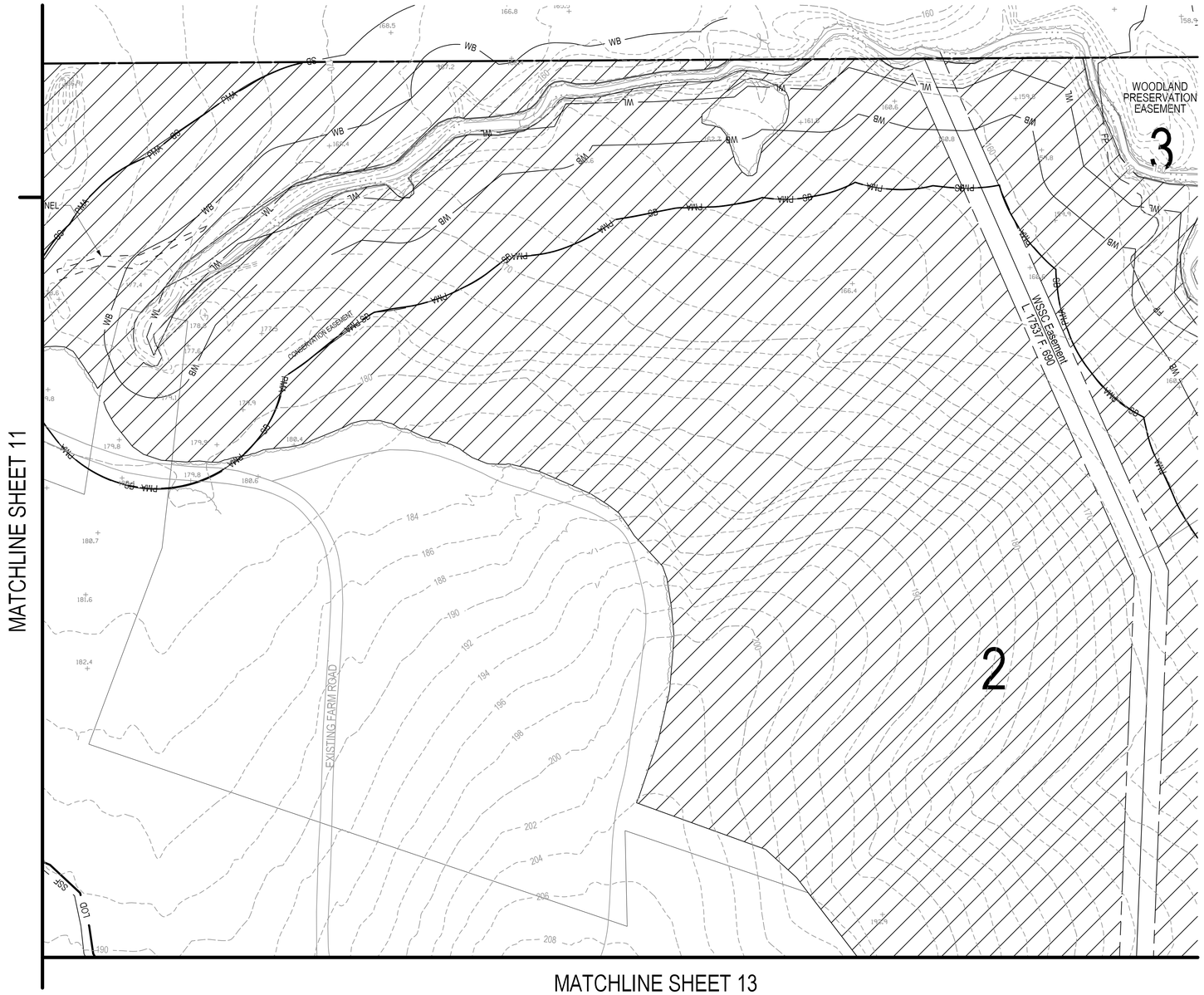

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GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (19th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 30'

SHEET 12 OF 18

C-27

PROJECT NO. 1404-06-00

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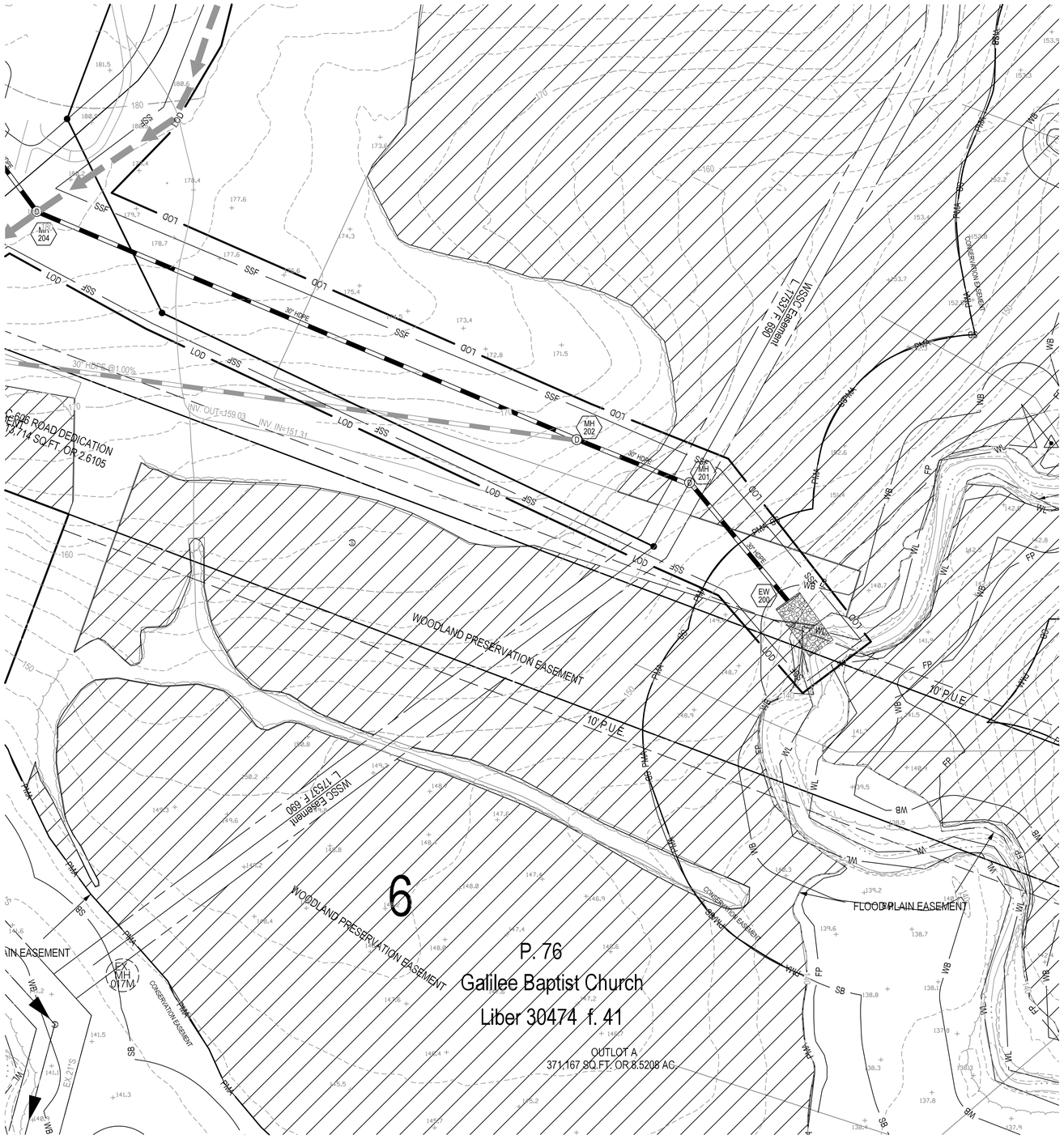

SCALE: 1" = 30'

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PLAN VIEW / FINE GRADING

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = 30'

SHEET 14 OF 18

C-28

PROJECT NO. 1404-06-00

SOLTESZ, LLC

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DATE: DECEMBER 2016 | CAD STANDARDS VERSION: V8 - 2000
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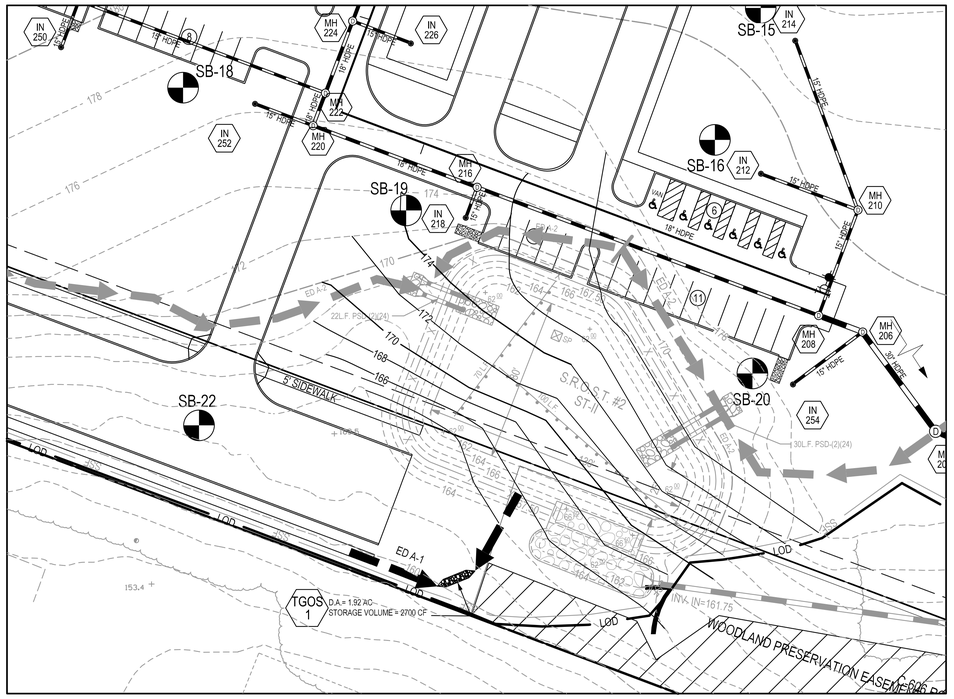
OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	



TRAP #2 REMOVAL

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FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

30 15 0 30 60

1" = 30'

C-29
SHEET 15
OF 18

PROJECT NO.
1404-06-00

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B-3 STANDARDS AND SPECIFICATIONS FOR LAND GRADING

1. PROVISIONS TO SAFELY CONVEY SURFACE RUNOFF TO STORMDRAINS, PROTECTED OUTLETS OR STABLE WATER COURSES TO ENSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.

2. CUT AND FILL SLOPES, STABILIZED WITH GRASSES, NO STEEPER THAN 2:1. (WHERE THE SLOPE IS TO BE MOWED, THE SLOPE SHOULD BE NO STEEPER THAN 3:1, BUT 4:1 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES.) SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATION TO BE SHOWN ON THE PLANS.

3. BENCHING PER DETAIL B-3-1 WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 2:1 SLOPE EXCEEDS 20FEET: FOR 3:1 SLOPES, WHEN IT EXCEEDS 30FEET; AND 4:1 SLOPES, WHEN IT EXCEEDS 40 FEET. LOCATE BENCHES TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSIBLE AND TO CONVEY THE WATER TO A STABLE OUTLET. SOILS, SEEPS, ROCK OUTCROPS, ETC. ARE TO BE TAKEN INTO CONSIDERATION WHEN DESIGNING BENCHES.

   A. PROVIDE BENCHES WITH A MINIMUM WIDTH OF SIX FEET FOR EASE OF MAINTENANCE.

   B. DESIGN BENCHES WITH A REVERSE SLOPE OF 6:1 OR FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF ONE FOOT IN DEPTH. GRADE THE LONGITUDINAL SLOPE OF THE BENCH BETWEEN 2 PERCENT AND 3 PERCENT, UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS.

   C. THE MAXIMUM ALLOWABLE FLOW LENGTH WITHIN A BENCH IS 800 FEET UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS.

4. DIVERSION OF SURFACE WATER FROM THE FACE OF ALL CUT AND FILL SLOPES USING EARTH DIKES OR SWALES. CONVEY SURFACE WATER DOWN SLOPES USING DESIGNED STRUCTURE. AND

   A. PROTECT THE FACE OF ALL GRADED SLOPES FROM SURFACE RUNOFF UNTIL THEY ARE STABILIZED.

   B. DO NOT SUBJECT THE SLOPES FACE TO ANY CONCENTRATED FLOW OF SURFACE-WATER SUCH AS FROM NATURAL DRAINAGE WAYS, GRADED SWALES, DOWNSPOUTS, ETC.

   C. PROTECT THE FACE OF THE SLOPE BY SPECIAL EROSION CONTROL MATERIALS TO INCLUDE, BUT NOT LIMITED TO APPROVE VEGETATIVE STABILIZATION PRACTICES, RIPRAP OR OTHER APPROVED STABILIZATION METHODS.

5. SERRATED SLOPE AS SHOWN IN DETAIL B-3-2. THE STEEPEST ALLOWABLE SLOPE FOR RIPRAP ROCK IS 1.5:1. FOR NON ROCK SURFACES, THE SLOPES ARE TO BE 2:1 OR FLATTER . THESE STEPS WILL WEATHER AND ACT TO HOLD MOISTURE, LIME, AND FERTILIZER AND SEED THUS PRODUCING A MUCH QUICKER AND LONGER LIVED VEGETATIVE COVER AND BETTER SLOPE STABILIZATION.

6. SUBSURFACE DRAINAGE PROVISIONS. PROVIDE SUBSURFACE DRAINAGE WHERE NECESSARY TO INTERCEPT SEEPAGE THAT WOULD OTHERWISE ADVERSELY AFFECT SLOPE STABILITY OR CREATE EXCESSIVELY WET SITE CONDITIONS.

7. PROXIMITY TO ADJACENT PROPERTY. SLOPES MUST NOT BE CREATED CLOSE TO PROPERTY LINES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED DAMAGES.

8. QUALITY OF FILL MATERIAL. FILL MATERIAL MUST BE FREE OF BRUSH, RUBBISH, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIAL. DO NOT PLACE FROZEN MATERIALS IN THE FILL NOR PLACE THE FILL MATERIAL ON A FROZEN FOUNDATION. AS POSSIBLE AND TO CONVEY THE WATER TO A STABLE OUTLET. SOILS, SEEPS, ROCK

9. STABILIZATION. STABILIZE ALL DISTURBED AREAS STRUCTURALLY OR VEGETATIVELY IN COMPLIANCE WITH SECTION B-4 STANDARDS AND SPECIFICATIONS FOR STABILIZATION PRACTICES.

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

1. SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

2. INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

   a. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUNDCOVER.

   b. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.

   c. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUNDCOVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.

   d. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

TABLE B.6: MAINTENANCE FERTILIZATION FOR PERMANENT SEEDING

SEEDING MIXTURE	TYPE	LBS/AC	LB/100	TIME	MOWING
TALL FESCUE MIXES UP TO PERCENT OR MORE OF COVER	10-10-10 OR 10-20-20	500 400	11.5 9.2	YEARLY AS NEEDED FALL	NO CLOSER THAN 3 INCHES. IF OCCASIONAL MOWING IS DESIRED
RED & CHEWING FESCUE, KENTUCKY BLUEGRASS, HARD FESCUE MIXTURES	10-10-10 10-10-20	250 100	5.8 2.3	SEPTEMBER. 30 DAYS LATER DECEMBER, MAY 20, JUNE 30, IF NEEDED	NOW NO CLOSER THAN 2 INCHES FOR RED FESCUE AND KENTUCKY BLUEGRASS. 3 INCHES FOR FESCUE

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

A. INCREMENTAL STABILIZATION CUT SLOPES

1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.

2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1):

   A. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.

   B. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.

   C. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.

   D. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

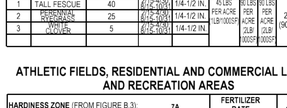


FIGURE B.1: INCREMENTAL STABILIZATION CUT

B. INCREMENTAL STABLIZATION FILL SLOPES

1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.

2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.

3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.

4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B-2):

   A. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON PLANS ADDRESS THIS AREA.

   B. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.

   C. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.

   D. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.

   E. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

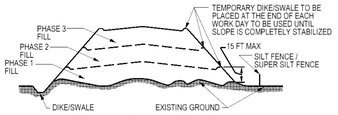


FIGURE B.2: INCREMENTAL STABILIZATION FILL

PERMANENT SEEDING SUMMARY

STEEP SLOPES, ROADSIDES, DIKES, DAMS, POND AND CHANNEL BANKS, AND STREAMBANKS

HARDINESS ZONE (FROM FIGURE B.3): 7A SEED MIXTURE (FROM TABLE B.3): WARM/COOL SEASON GRASSES					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATE	SEEDING DEPTHS	N	P2O5	K2O	
1	SHEEP FESCUE	20	4/1-5/31 9/1-10/31	1/4-1/2 IN	45 LBS PER ACRE *1,0*1000SF	90 LBS PER ACRE *2,0*1000SF	90 LBS PER ACRE *2,0*1000SF	2 TONS/AC (90LB/1000SF)
2	REDTOP	1	4/1-5/31 9/1-10/31	1/4-1/2 IN				
3	COMMON LESPEDEZA	10	4/1-5/31 9/1-10/31	1/4-1/2 IN				
4	DEERTONGUE	20	4/1-5/31 9/1-10/31	1/4-1/2 IN				

GRASSED WATERWAYS, DIVERSIONS, TERRACES, SPILLWAYS, BOTTOM OF DRAINAGE CHANNELS, SWALES, AND DETENTION BASINS

HARDINESS ZONE (FROM FIGURE B.3): 7A SEED MIXTURE (FROM TABLE B.3): COOL SEASON GRASSES					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATE	SEEDING DEPTHS	N	P2O5	K2O	
1	TALL FESCUE	40	4/1-5/31 9/1-10/31	1/4-1/2 IN	45 LBS PER ACRE *1,0*1000SF	90 LBS PER ACRE *2,0*1000SF	90 LBS PER ACRE *2,0*1000SF	2 TONS/AC (90LB/1000SF)
2	KENTUCKY BLUEGRASS	25	4/1-5/31 9/1-10/31	1/4-1/2 IN				
3	CREEPING RED FESCUE	5	4/1-5/31 9/1-10/31	1/4-1/2 IN				

ATHLETIC FIELDS, RESIDENTIAL AND COMMERCIAL LAWNS, AND RECREATION AREAS

HARDINESS ZONE (FROM FIGURE B.3): 7A SEED MIXTURE (FROM TABLE B.3): COOL SEASON GRASSES					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATE	SEEDING DEPTHS	N	P2O5	K2O	
1	TALL FESCUE	100	4/1-5/31 9/1-10/31	1/4-1/2 IN	45 LBS PER ACRE *1,0*1000SF	90 LBS PER ACRE *2,0*1000SF	90 LBS PER ACRE *2,0*1000SF	2 TONS/AC (90LB/1000SF)
				1/4-1/2 IN				
				1/4-1/2 IN				

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

A. SOIL PREPARATION

TEMPORARY STABILIZATION

A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIMES AS PRESCRIBED ON THE PLANS.

C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:

   I. SOIL PH BETWEEN 6.0 AND 7.0.

   II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).

   III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.

   IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.

   V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.

C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN. THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.

D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.

E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE NECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.

3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

   A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

   B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

   C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

   D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

5. TOPSOIL SPECIFICATIONS. SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

   A. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 ½INCHES IN DIAMETER.

   B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

   C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

C. TOPSOIL APPLICATION

A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.

B. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

D. SOIL ATTACHMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATIONS RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 90 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

A. SEEDING

1. SPECIFICATIONS

   A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.

   B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.

   C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATES ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIME THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURE ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.

   D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

2. APPLICATION

   A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

      I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1. PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.

      II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.

   B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

      I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 7/INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.

      II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

   C. HYDROSEEDING: APLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

      I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; PHOSPHATE (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.

      II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRES MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.

      III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.

      IV. WHEN HYFROSEEDING DO NOT INCORPORATE SEED INTO SOIL.

B. MULCHING

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)

   A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. **NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED**

   B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

      I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

      II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

      III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOODCELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

      IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.

      V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER. PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

2. APPLICATION

   A. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.

   B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.

   C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

3. ANCHORING

   A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:

      I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.

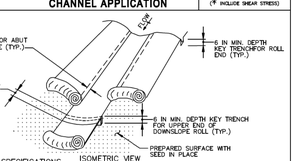
      II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

      III. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETRO-SET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. **USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED**

      IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY A

DETAIL B-4-6-A TEMPORARY SOIL STABILIZATION MATTING CHANNEL APPLICATION

STANDARD SYMBOL: TSSMC – * lb/ft² (* INCLUDE SHEAR STRESS)



ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

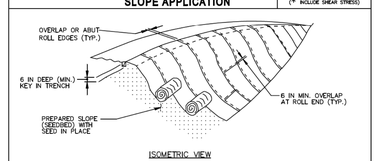
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING. PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.
7. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL: TSSMS – * lb/ft² (* INCLUDE SHEAR STRESS)



ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
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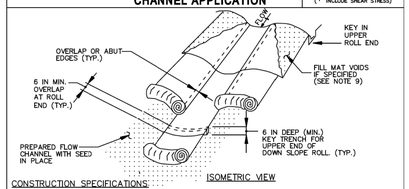
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWNSLOPE, LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-C PERMANENT SOIL STABILIZATION MATTING CHANNEL APPLICATION

STANDARD SYMBOL: PSSMC – * lb/ft² (* INCLUDE SHEAR STRESS)



ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

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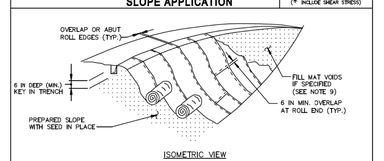
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
7. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-D PERMANENT SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL: PSSMS – * lb/ft² (* INCLUDE SHEAR STRESS)



ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

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3. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWN SLOPE, LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
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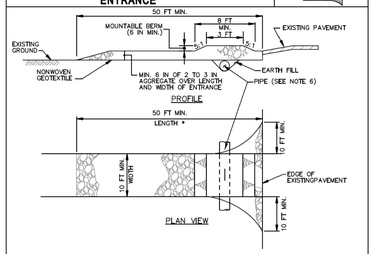
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

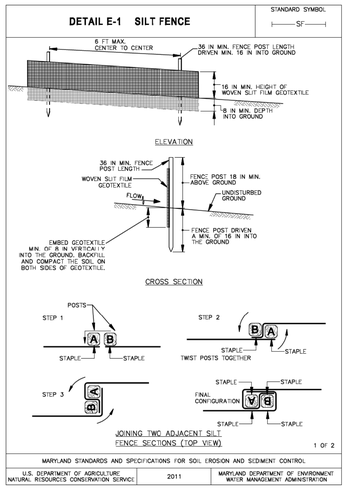
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF



1 OF 2

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± ¾ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

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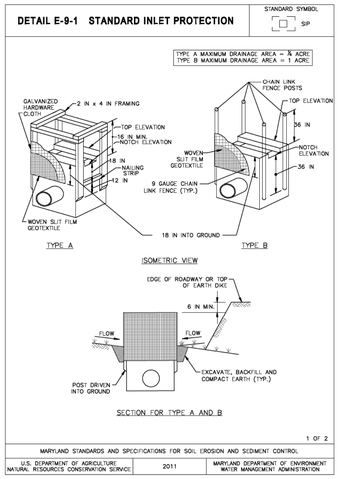
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP



1 OF 2

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ¾ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

   FOR TYPE B, USE 2½ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

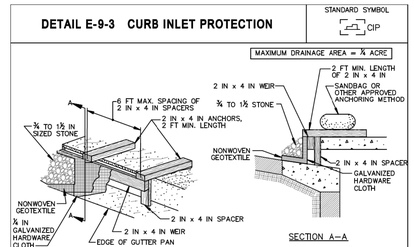
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP



CONSTRUCTION SPECIFICATIONS

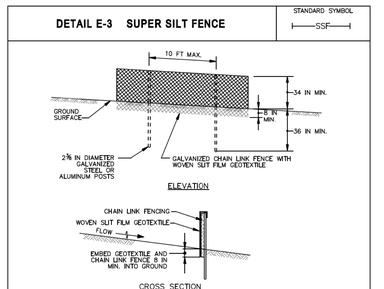
1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¾ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL: SSF

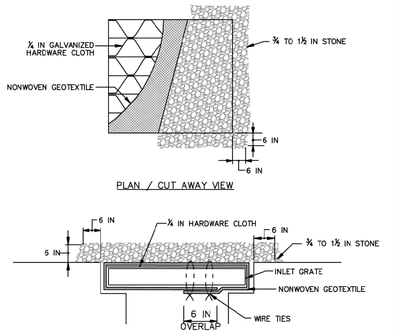


CONSTRUCTION SPECIFICATIONS

1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INC

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGIP



CONSTRUCTION SPECIFICATIONS

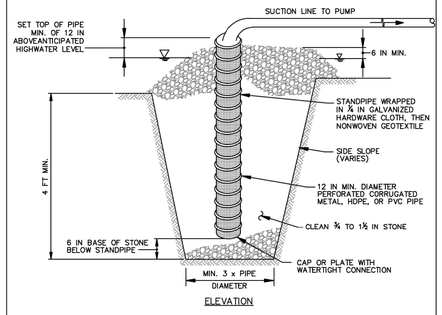
1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL F-2 SUMP PIT

STANDARD SYMBOL: ⊠SP



CONSTRUCTION SPECIFICATIONS

1. USE 12 INCH OR LARGER DIAMETER CORRUGATED METAL, HDPE, OR PVC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER. BOTTOM OF PIPE MUST BE CAPPED WITH WATERTIGHT SEAL.
2. WRAP PIPE WITH ¾ INCH GALVANIZED HARDWARE CLOTH AND WRAP NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE HARDWARE CLOTH.
3. EXCAVATE PIT TO THREE TIMES THE PIPE DIAMETER AND FOUR FEET IN DEPTH. PLACE ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
4. SET TOP OF PIPE MINIMUM 12 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
5. BACKFILL PIT AROUND THE PIPE WITH ¾ TO 1½ INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
6. DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE.
7. A SUMP PIT REQUIRES FREQUENT MAINTENANCE. IF SYSTEM CLOGS, REMOVE PERFORATED PIPE AND REPLACE GEOTEXTILE AND STONE. KEEP POINT OF DISCHARGE FREE OF EROSION.

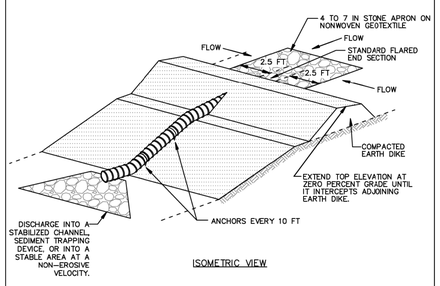
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

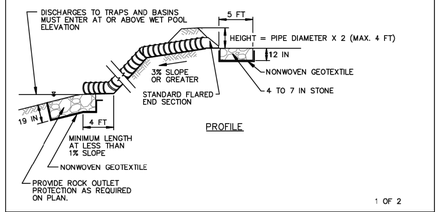
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL D-1 PIPE SLOPE DRAIN

STANDARD SYMBOL: PSD – 12

DESIGNATION PSD-12 REFERS TO 12 IN PIPE SLOPE DRAIN.





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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL D-1 PIPE SLOPE DRAIN

STANDARD SYMBOL: PSD – 12

DESIGNATION PSD-12 REFERS TO 12 IN PIPE SLOPE DRAIN.

CONSTRUCTION SPECIFICATIONS

1. THE HEIGHT OF THE EARTH DIKE MUST BE AT LEAST 2 TIMES THE PIPE DIAMETER MEASURED FROM THE INVERT OF THE PIPE. EXTEND THE TOP ELEVATION OF DIKE AT ZERO PERCENT GRADE UNTIL IT INTERCEPTS THE TOP OF THE ADJOINING EARTH DIKE.
2. FLEXIBLE PIPE IS PREFERRED. HOWEVER, CORRUGATED METAL PIPE OR EQUIVALENT PVC PIPE CAN BE USED. ALL CONNECTIONS MUST BE WATERTIGHT.
3. ATTACH A FLARED END SECTION TO THE INLET END OF PIPE WITH A WATERTIGHT CONNECTION. AT THE INLET OF THE PIPE SLOPE DRAIN, INSTALL 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PLACED 12 INCHES IN DEPTH ON NONWOVEN GEOTEXTILE AND EXTEND OUT 5 FEET FROM THE INLET IN ALL DIRECTIONS.
4. PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL RIPRAP.
5. SECURELY ANCHOR THE PIPE SLOPE DRAIN (PSD) TO THE SLOPE. SPACE THE ANCHORS EVERY 10 FEET.
6. HAND TAMP THE SOIL AROUND AND UNDER THE PIPE AND END SECTION IN 4 INCH LIFTS TO THE TOP OF THE EARTH DIKE.
7. UPON COMPLETING INSTALLATION OF THE PSD, STABILIZE ASSOCIATED DISTURBANCES WITH SEED, MULCH, AND TACK.
8. INSTALL OUTLET PROTECTION AS SPECIFIED ON APPROVED PLAN.
9. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF EROSION. MAINTAIN WATER TIGHT CONNECTIONS AND POSITIVE DRAINAGE. REMOVE ACCUMULATED SEDIMENT AND DEBRIS.

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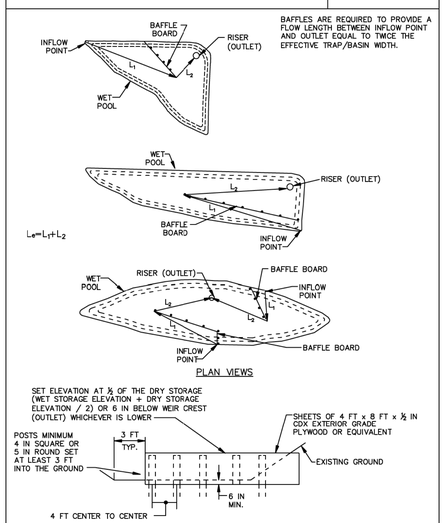
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL G-2-4 BAFFLE BOARDS

STANDARD SYMBOL: BB

BAFFLES ARE REQUIRED TO PROVIDE A FLOW LENGTH BETWEEN INFLOW POINT AND OUTLET EQUAL TO TWICE THE EFFECTIVE TRAP/BASIN WIDTH.



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

B-4-8 STANDARDS AND SPECIFICATIONS

FOR

STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

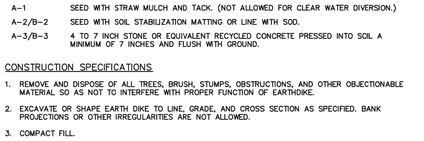
Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

B.43

DETAIL C-1 EARTH DIKE

STANDARD SYMBOL: A–1 (PLACE DESIGNATION SUCH AS A-1 ON FLOW CHANNEL SIDE OF DIKE.)



DIKE TYPE	A	B
a – DIKE HEIGHT	18 IN MIN.	30 IN MIN.
b – DIKE WIDTH	24 IN MIN.	36 IN MIN.
c – FLOW WIDTH	4 FT MIN.	6 FT MIN.
d – FLOW DEPTH	12 IN MIN.	24 IN MIN.

FLOW CHANNEL STABILIZATION

A–1	SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.)
A–2/B–2	SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.
A–3/B–3	4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

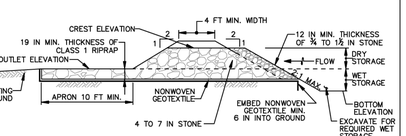
1. REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.
2. EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
3. COMPACT FILL.
4. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
5. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
6. STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.
7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
8. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

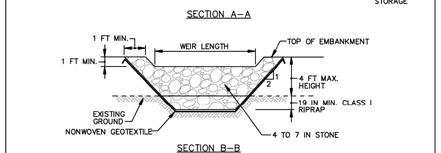
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

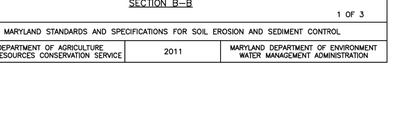
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

STANDARD SYMBOL: ST–II







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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

STANDARD SYMBOL: ST–II

CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT TRAP IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE AVOIDED.
2. CLEAR, GRUB, AND STRIP ANY VEGETATION AND ROOT MAT FROM THE AREA UNDER THE EMBANKMENT AND TRAP BOTTOM.
3. USE FILL MATERIAL FREE OF ROOTS, WOODY VEGETATION, OVERSIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL FOR THE EMBANKMENT.
4. CONSTRUCT TOP OF EMBANKMENT 1 FOOT MINIMUM ABOVE WEIR CREST. COMPACT THE EMBANKMENT BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. MAKE ALL CUT AND FILL SLOPES 2:1 OR FLATTER.
6. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE BOTTOM AND SIDES OF OUTLET AND APRON PRIOR TO PLACEMENT OF RIPRAP. OVERLAP SECTIONS OF GEOTEXTILE AT LEAST 1 FOOT WITH THE SECTION NEARER TO THE TRAP PLACED ON TOP. EMBED GEOTEXTILE AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. USE CLEAN 4 TO 7 INCH RIPRAP TO CONSTRUCT THE WEIR. USE CLASS I RIPRAP FOR THE APRON. USE OF RECYCLED CONCRETE EQUIVALENT IS ACCEPTABLE.
8. PLACE 1 FOOT OF CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE ON THE UPSTREAM FACE OF THE WEIR.
9. CONSTRUCT AND MAINTAIN THE OUTLET ACCORDING TO APPROVED PLAN, AND IN SUCH A MANNER THAT EROSION AT OR BELOW THE OUTLET DOES NOT OCCUR.
10. STABILIZE THE EMBANKMENT AND INTERIOR SLOPES WITH SEED AND MULCH. STABILIZE POINTS OF CONCENTRATED INFLOW AS SHOWN ON APPROVED PLAN.
11. REMOVE SEDIMENT AND RESTORE TRAP TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO CLEANOUT ELEVATION (50% OF WET STORAGE DEPTH). DEPOSIT REMOVED SEDIMENT IN AN APPROVED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. KEEP POINTS OF INFLOW AND OUTFLOW AS WELL AS INTERIOR OF THE TRAP FREE FROM EROSION, AND REMOVE ACCUMULATED DEBRIS. MAINTAIN EMBANKMENTS TO CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. REMOVE ANY TREES, BRUSH, OR OTHER WOODY VEGETATION GROWING ON EMBANKMENT OR NEAR PRINCIPAL SPILLWAY. MAINTAIN LINE, GRADE, AND CROSS SECTION.
12. WHEN DEWATERING TRAP, PASS REMOVED WATER THROUGH AN APPROVED SEDIMENT CONTROL PRACTICE.
13. UPON REMOVAL, GRADE AND STABILIZE THE AREA OCCUPIED BY TRAP.

2 OF 3

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

STANDARD SYMBOL: ST–II

STONE/RIPRAP OUTLET SEDIMENT TRAP ST–II, TRAP NO. _____		
DRAINAGE AREA – INITIAL		ACRES
DRAINAGE AREA – INTERIM		ACRES
DRAINAGE AREA – FINAL		ACRES
TOTAL STORAGE REQUIRED		CF
TOTAL STORAGE PROVIDED		CF
WET STORAGE REQUIRED		CF
WET STORAGE PROVIDED		CF
DRY STORAGE REQUIRED		CF
DRY STORAGE PROVIDED		CF
EXISTING GROUND ELEVATION AT OUTLET (WET STORAGE ELEVATION)		FT
TRAP BOTTOM ELEVATION		FT
TRAP BOTTOM DIMENSIONS		FT x FT
WEIR LENGTH		FT
WEIR CREST (DRY STORAGE) ELEVATION		FT
CLEANOUT ELEVATION		FT
TOP OF EMBANKMENT ELEVATION		FT
SIDE SLOPE		H:V RATIO
EMBANKMENT TOP WIDTH		FT
OUTLET PROTECTION – LENGTH		FT
OUTLET PROTECTION – DEPTH		IN

3 OF 3

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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NO.	REVISIONS	BY	DATE
	DATE: DECEMBER 2016 CAD STANDARDS VERSION: V8 - 2000		
	DESIGNED: CJV TECHNICIAN: CJV CHECKED: THD		

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

CONTACT NAME: PAT RICKER

MAP ____ GRID ____
TAX MAP: 100, B4 ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 09
SITE DATUM: HORIZONTAL: NAD83 VERTICAL: NGVD29

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____, EXPIRATION DATE: _____

DETAILS

FINAL
GRADING, EROSION AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = NTS
SHEET 18 OF 18
C-32
PROJECT NO. 1404-05-00

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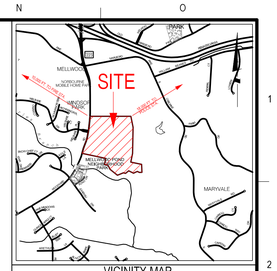
GALILEE BAPTIST CHURCH

SITE PLAN



SHEET INDEX

COVER SHEET	1
PLAN VIEW	2-14
DETAILS	15

GENERAL NOTES

1. PROJECT NAME: GALILEE BAPTIST CHURCH
2. GROSS ACREAGE: 49.97 AC.
   FLOODPLAIN ACREAGE: 4.42 AC.
   NET ACREAGE: 45.55 AC.
3. EXISTING ZONE: R-A
4. PROPOSED USE: CHURCH
5. NUMBER OF LOTS: 0
   PARCELS: 2
   OUTLOT:
   OUTPARCEL:
6. GFA EXISTING: 2,750 SF
   GFA PROPOSED: 50,000 SF
7. WSSC GRID: 208SE09, 209SE00
8. COUNTY TAX MAP 100, GRID B-4
9. AVIATION POLICY AREA: N/A
10. EXISTING
    a. WATER DESIGNATION: W-3
    b. SEWER DESIGNATION: S-3
11. PROPOSED
    a. WATER DESIGNATION: W-3
    b. SEWER DESIGNATION: S-3
12. STORMWATER CONCEPT APPROVAL # 39538-2016
13. 10-FOOT PUBLIC UTILITY EASEMENT ALONG ALL RIGHTS-OF-WAY
14. MANDATORY PARK DEDICATION NOT APPLICABLE
15. NO CEMETERIES EXIST ON OR CONTIGUOUS TO PROPERTY.
16. NO HISTORIC SITES ON OR IN THE VICINITY OF THE PROPERTY.
17. WETLANDS IS ON SITE, STREAM IS ON SITE
18. 100-YEAR FLOODPLAN IS ON SITE.
19. SITE IS NOT WITHIN CHESAPEAKE BAY CRITICAL AREA
20. SOURCE OF TOPOGRAPHY: SOLTESZ, LLC. DATED JANUARY, 2016
21. APPLICANT: PAT RICKER
    RICKER BROTHERS REALTY CO.
    117 RIVERVIEW ROAD
    STEVENSVILLE, MD 21666
    (240)-375-4462

2.2 SITE DATA

MINIMUM LOT SETBACKS:
FRONT: 25'
SIDE: 17/8'
REAR: 20'

2.3 PARKING & LOADING

	SUBTYPE	PARKING PROPOSED
STANDARD (9.5'X19')		387
COMPACT		0
HANDICAP		18
	REGULAR	13
	VAN	5
LOADING		1

LOCATION MAP

SCALE: 1" = 150'

SCALE: 1" = 150'

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO SUBTITLE 32, DIVISION 2 OF THE PRINCE GEORGE'S COUNTY BUILDING CODE.

DATE:

TIMOTHY H. DAVIS
MD.RLA.NO. 2002

DRAINAGE CERTIFICATION

I CERTIFY THAT I HAVE INSPECTED THIS SITE AND THAT DRAINAGE ONTO THIS SITE FROM UPGRADE PROPERTIES AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES HAS BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

DATE:

TIMOTHY H. DAIVS
MD.RLA.NO. 2002

150 75 0 150 300
GRAPHIC SCALE
1" = 150'

SOLTESZ, LLC

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P. 301.794.7555 F. 301.794.7656

www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MAY, 2019 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CV | TECHNICIAN: ZAH | CHECKED: THD

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OWNER/DEVELOPER/APPLICANT

RICKER BROTHERS REALTY CO.
117 RIVERVIEW RD.
STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP	GRID
TAX MAP: 100, B4	ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 00	
SITE DATUM HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

COVER SHEET

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 150'
SHEET 1 OF 15
C-33
PROJECT NO. 1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O

The Maryland National Capital Park and Planning Commission
L. 13757 f. 719

SCALE: 1" = 50'

50 25 0 50 100

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PHONE # (240)-375-4462

PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'

SHEET 2 OF 15

C-34

PROJECT NO. 1404-06-00

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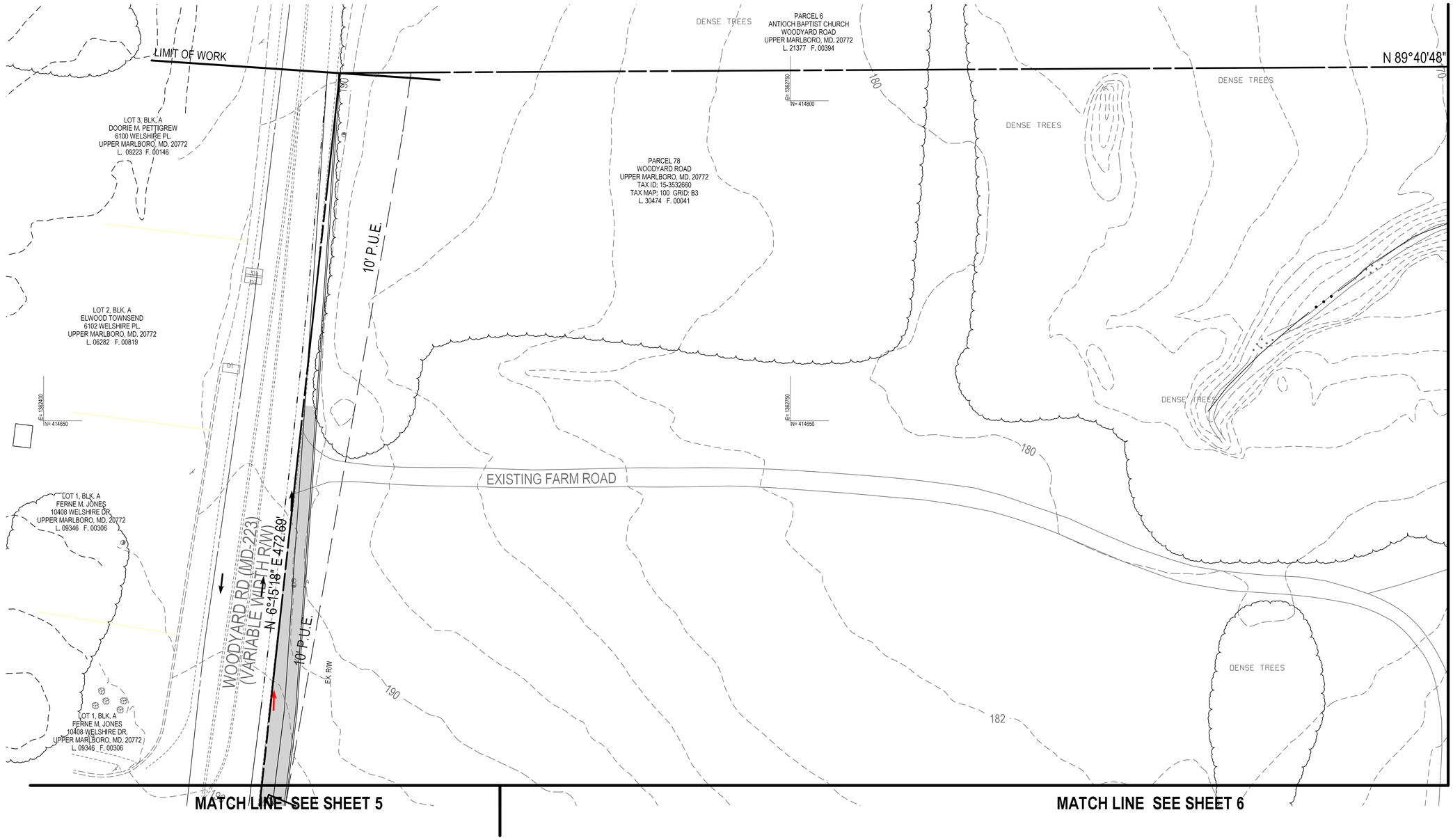

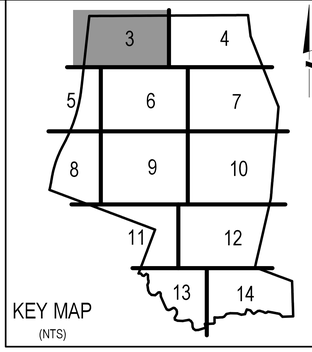

SCALE: 1" = 20'

GRAPHIC SCALE
1" = 20'

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 5

MATCH LINE SEE SHEET 6

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PHONE # (240)-375-4462

PAT RICKER

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TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	

SITE DATUM
HORIZONTAL: NAD 83
VERTICAL: NGVD 29

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

C-35
SHEET 3
OF 15

PROJECT NO.
1404-06-00

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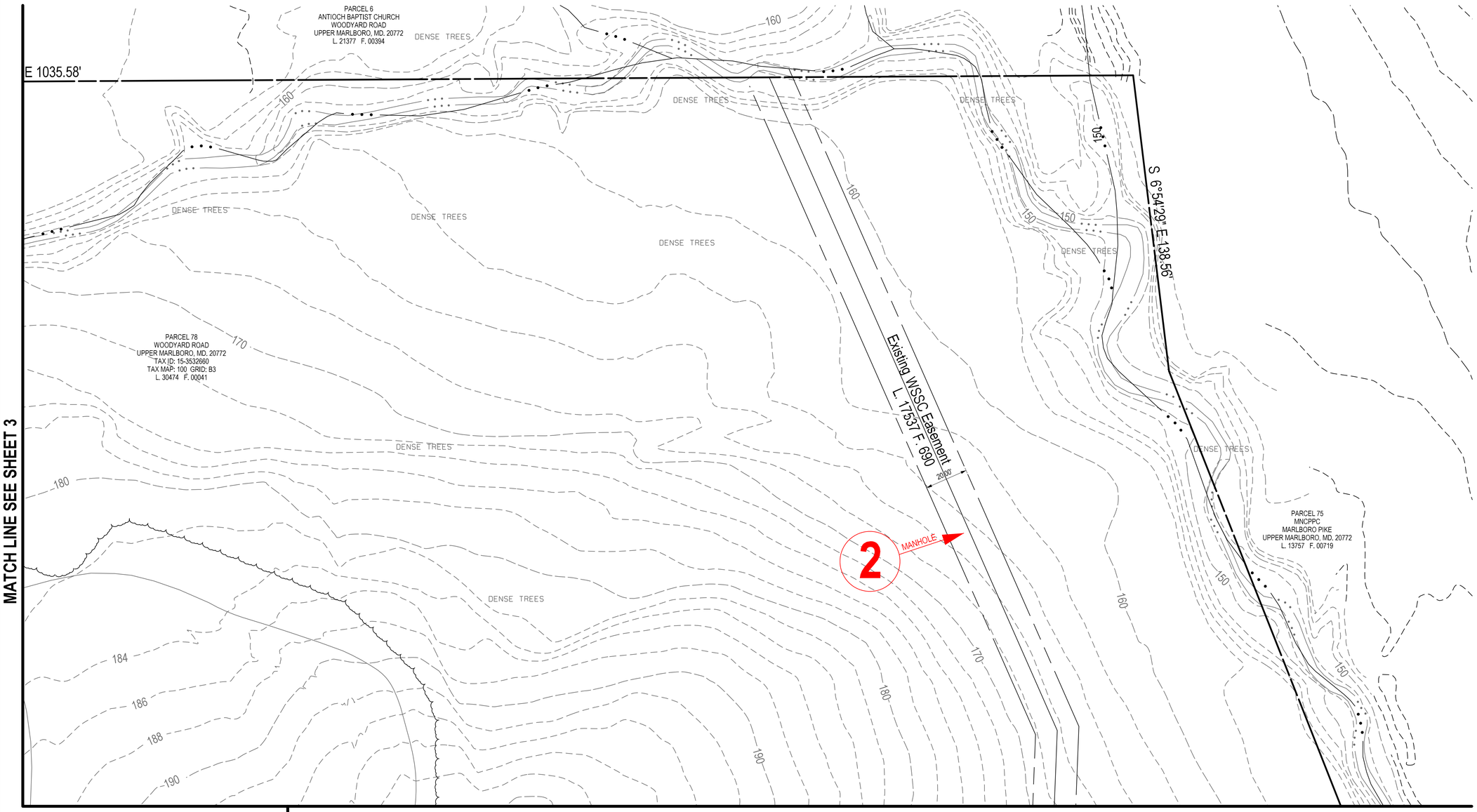

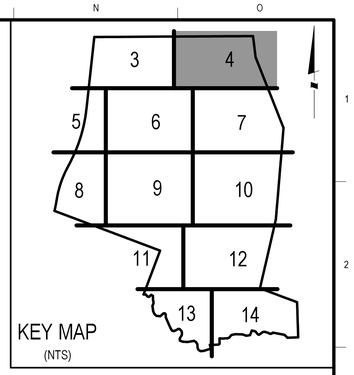

SCALE: 1" = 20'

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 7

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP ____ GRID ____

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100, B4	R-A
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MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

SHEET 4 OF 15

C-36

PROJECT NO. 1404-06-00

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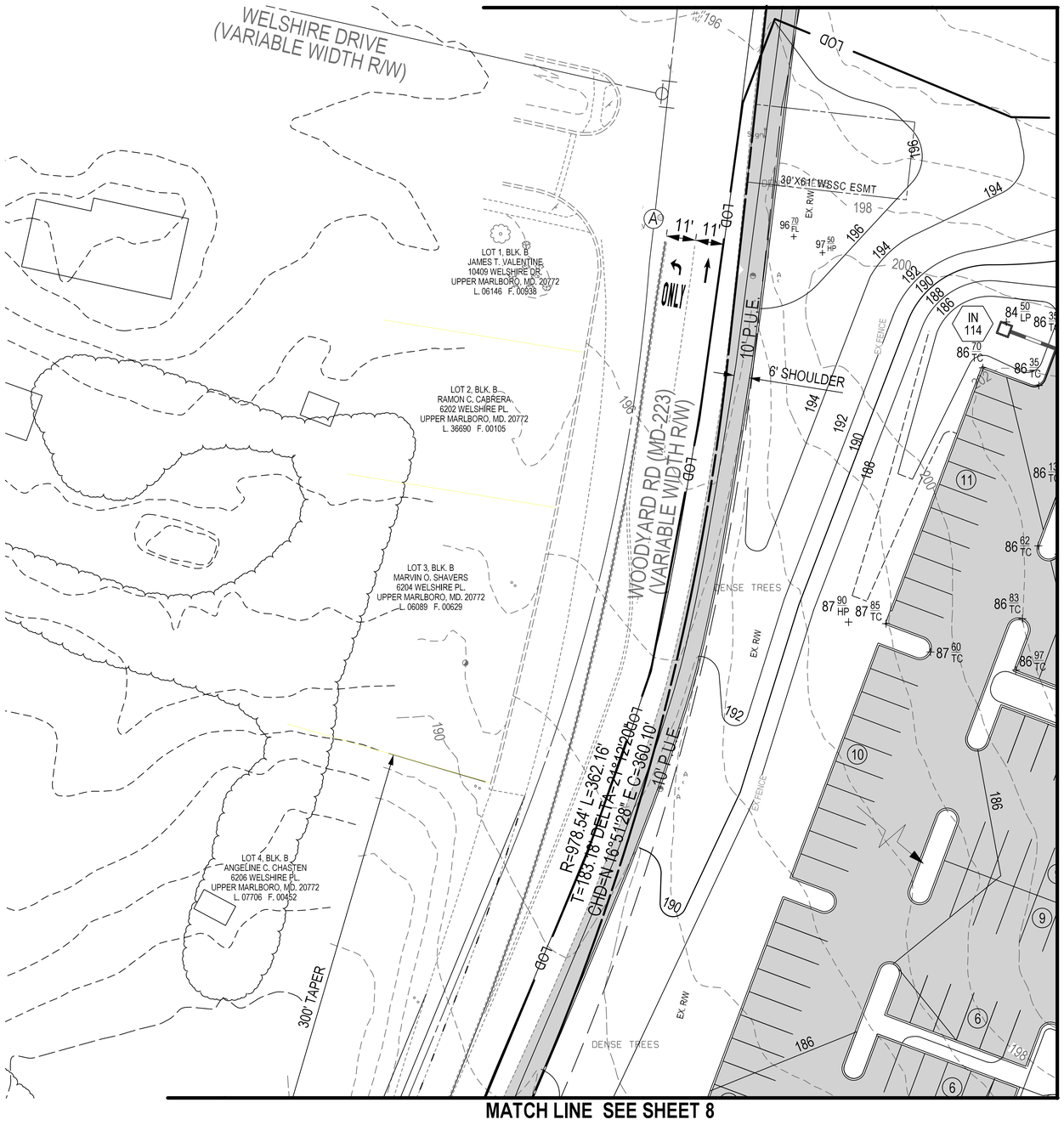

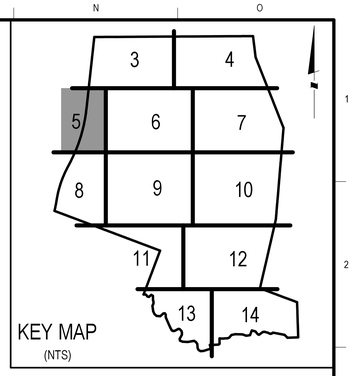

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GRAPHIC SCALE
20 10 0 20 40
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STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

SHEET C-37 5
OF 15

PROJECT NO. 1404-06-00

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REFERENCE GRID A B C D E F G H I J K L M N O

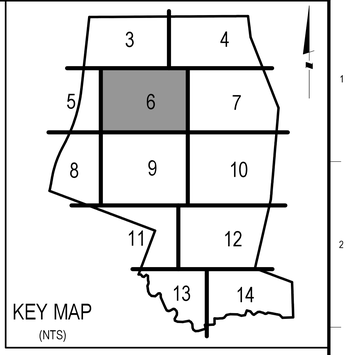
MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 5

MATCH LINE SEE SHEET 7

MATCH LINE SEE SHEET 9



SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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P. 301.794.7555 F. 301.794.7656

www.solteszco.com

NO.	REVISIONS	BY	DATE
DATE: MAY, 2019	CAD STANDARDS VERSION: V8 - 2000		
DESIGNED: CV	TECHNICIAN: ZAH	CHECKED: THD	

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

RICKER BROTHERS REALTY CO.
117 RIVERVIEW RD.
STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP	GRID
TAX MAP: 100, B4	ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 09	
SITE DATUM: HORIZONTAL: NAD 83; VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH

6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

C-38

SHEET 6 OF 15

PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\SITE\SIT_06.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:30 PM

REFERENCE GRID

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

MATCH LINE SEE SHEET 4

PARCEL 78
WOODYARD ROAD
UPPER MARLBORO, MD. 20772
TAX ID: 15-3532660
TAX MAP: 100 GRID: B3
L. 30474 F. 00041

DENSE TREES

S 21°33'43" E 496.31'

3 MANHOLE

2 MANHOLE

PARCEL 75
MNCPPC
MARLBORO PIKE
UPPER MARLBORO, MD. 20772
L. 13757 F. 00719

PARCEL 78
WOODYARD ROAD
UPPER MARLBORO, MD. 20772
TAX ID: 15-3532660
TAX MAP: 100 GRID: B3
L. 30474 F. 00041

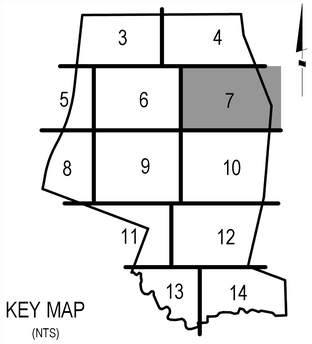
14 50 HP

LOD

MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 10

KEY MAP (NTS)



SCALE: 1" = 20'

GRAPHIC SCALE
1" = 20'

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PAT RICKER

MAP ____ GRID ____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

C-39
SHEET 7
OF 15

PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\SITE\SIT_07.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg PenTbl= TEXT_SUB.tbl 2/2/2024 4:52:30 PM

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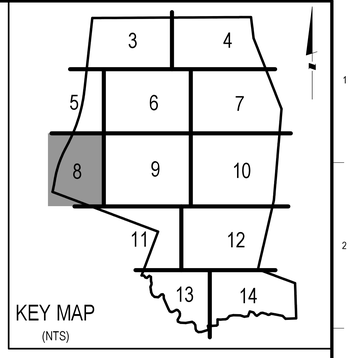

SCALE: 1" = 20'

GRAPHIC SCALE
1" = 20'

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PAT RICKER

MAP ____ GRID ____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 09
SITE DATUM: HORIZONTAL: NAD 83 | VERTICAL: NGVD 29

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'
SHEET 8 OF 15
C-40
PROJECT NO. 1404-06-00

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REFERENCE GRID A B C D E F G H I J K L M N O

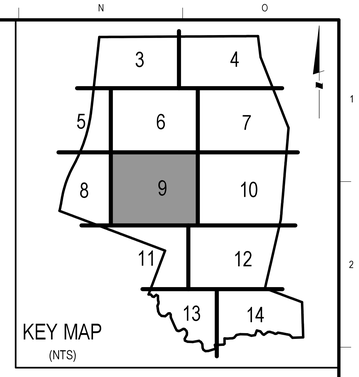
MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 8

MATCH LINE SEE SHEET 10

MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 11



SCALE: 1" =20'

GRAPHIC SCALE 1" = 20'

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STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 00	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

C-41

SHEET 9 OF 15

PROJECT NO. 1404-06-00

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REFERENCE GRID: A B C D E F G H I J K L M N O

MATCH LINE SEE SHEET 7

MATCH LINE SEE SHEET 9

MATCH LINE SEE SHEET 12

EX STRUCTURE TO BE RAZED

EX STRUCTURE TO BE RAZED

WSSC Easement 17537 F. 690

S 47°54'54" W 598.84

FLOOD PLAIN EASEMENT

FLOOD PLAIN EASEMENT

DENSE TREES

DENSE TREES

DENSE TREES

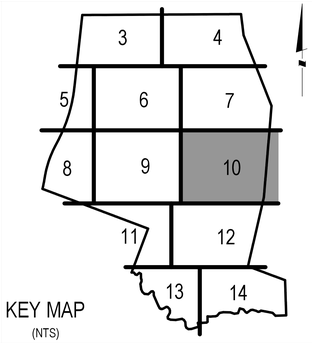
PARCEL 78
WOODYARD ROAD
UPPER MARLBORO, MD. 20772
TAX ID: 15-3532660
TAX MAP: 100 GRID: B3
L. 30474 F. 00041

3 MANHOLE

2 MANHOLE

208 206 204 202 200 190 180 170 160 150 162

KEY MAP (NTS)



SCALE: 1" = 20'

GRAPHIC SCALE 1" = 20'

20 10 0 20 40

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TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

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6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

SHEET 10 OF 15

C-42

PROJECT NO. 1404-06-00

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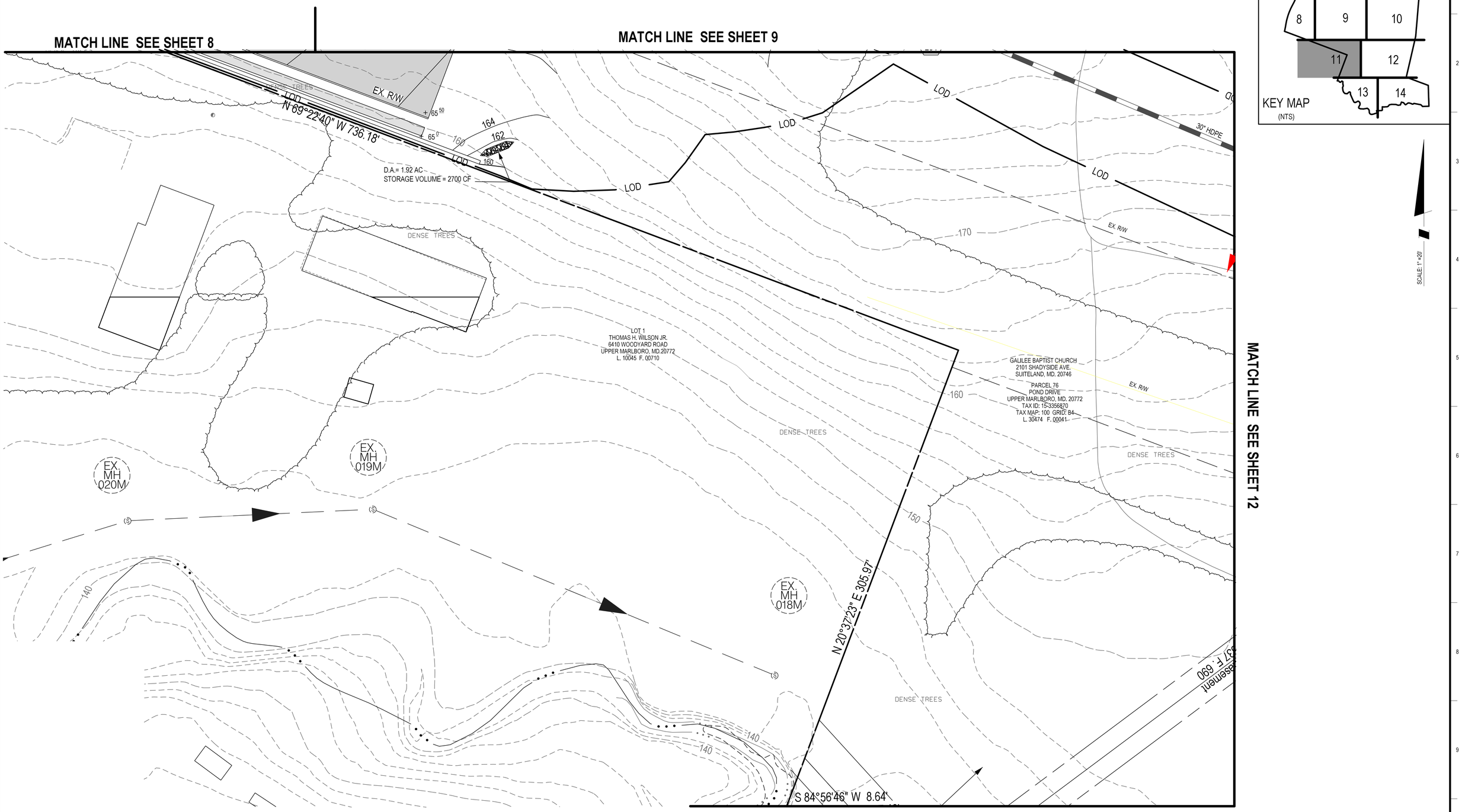
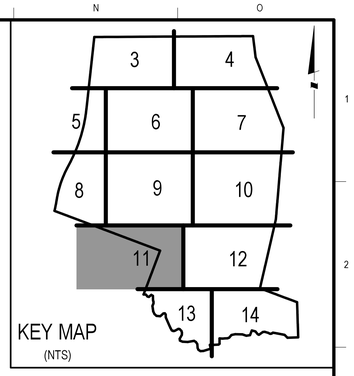
REFERENCE GRID: A B C D E F G H I J K L M N O





SCALE: 1" =20'

GRAPHIC SCALE
20 10 0 20 40
1" = 20'

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PAT RICKER

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 09	
SITE DATUM	
HORIZONTAL: NAD 83 VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH

6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'

SHEET 11 OF 15

C-43

PROJECT NO.
1404-06-00

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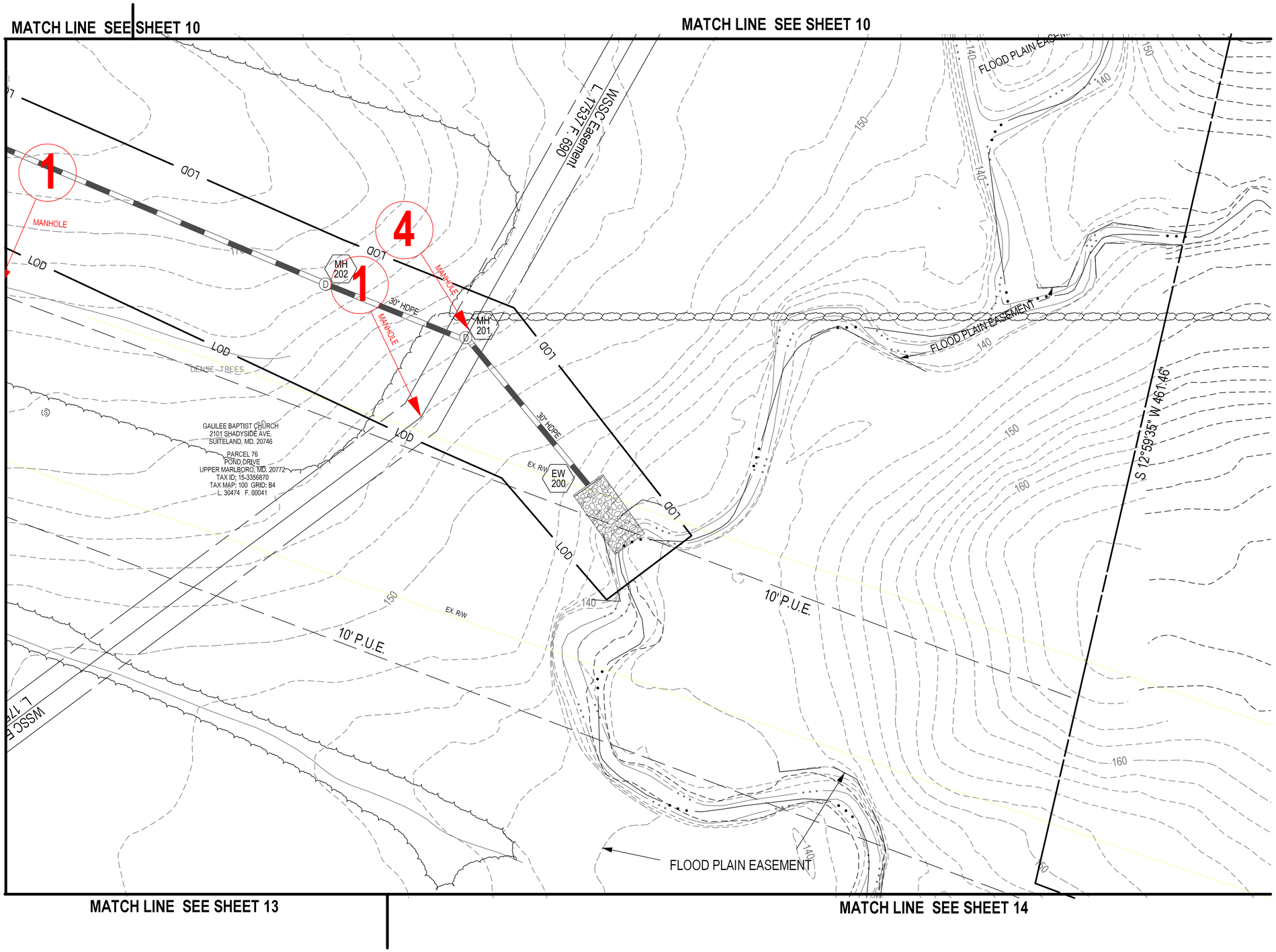

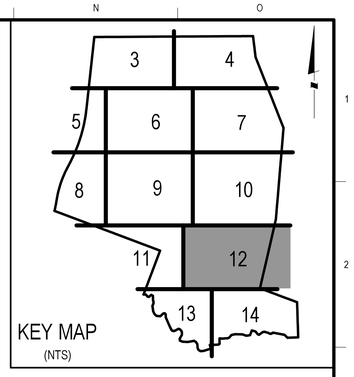

SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09 209 SE 00	
SITE DATUM	
HORIZONTAL: NAD 83	
VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

DIE INCH
1" = 20'

C-44
SHEET 12
OF 15

PROJECT NO.
1404-06-00

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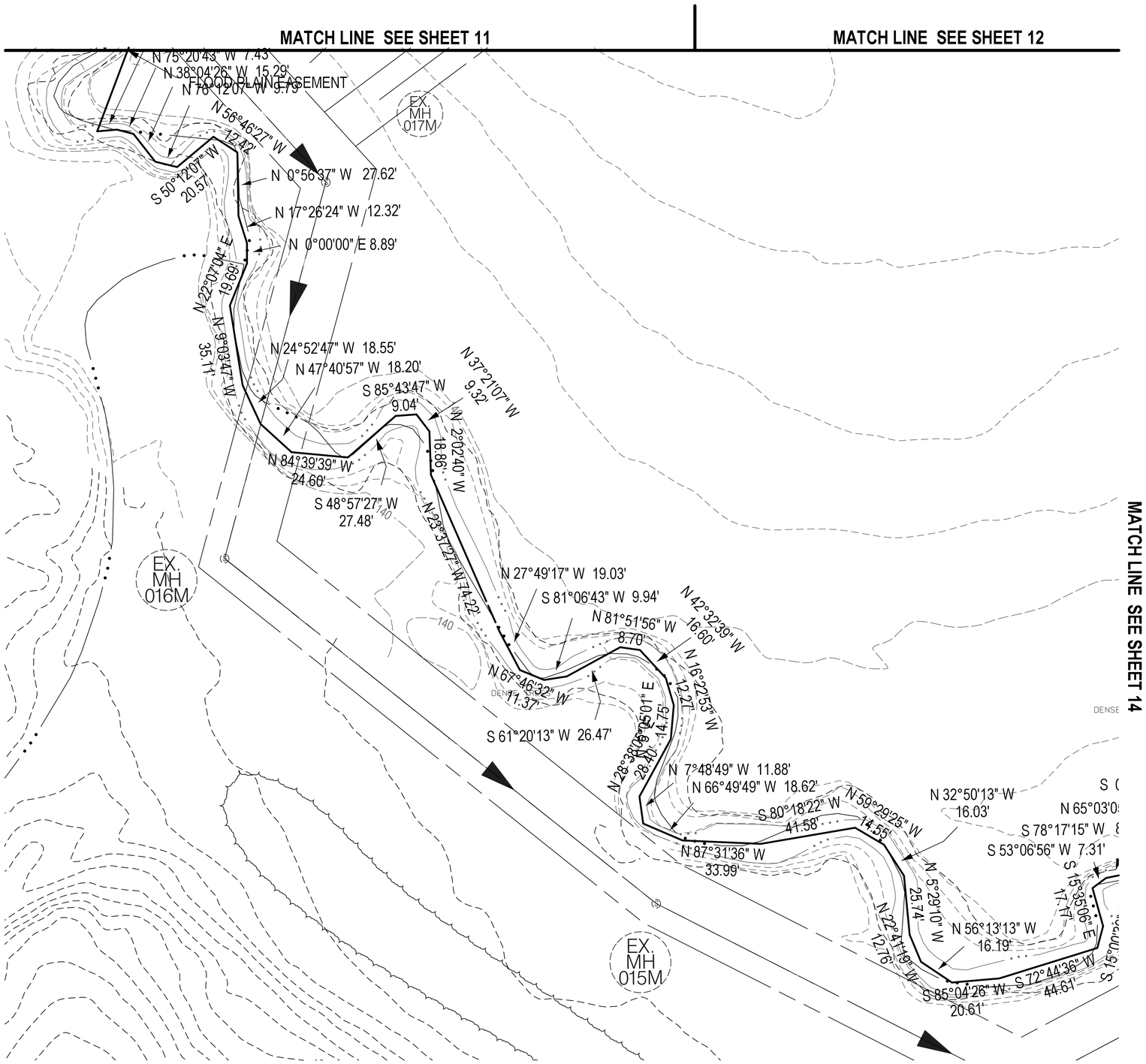

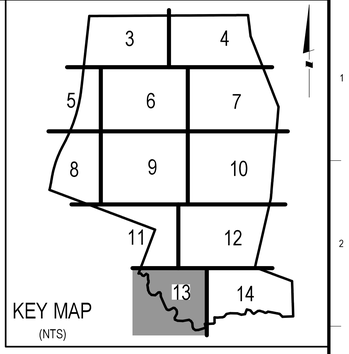

SCALE: 1" = 20'

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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PAT RICKER

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100, B4	R-A
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208 SE 09 209 SE 00	
SITE DATUM	
HORIZONTAL: NAD 83	
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GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = 20'

C-45
SHEET 13 OF 15

PROJECT NO.
1404-06-00

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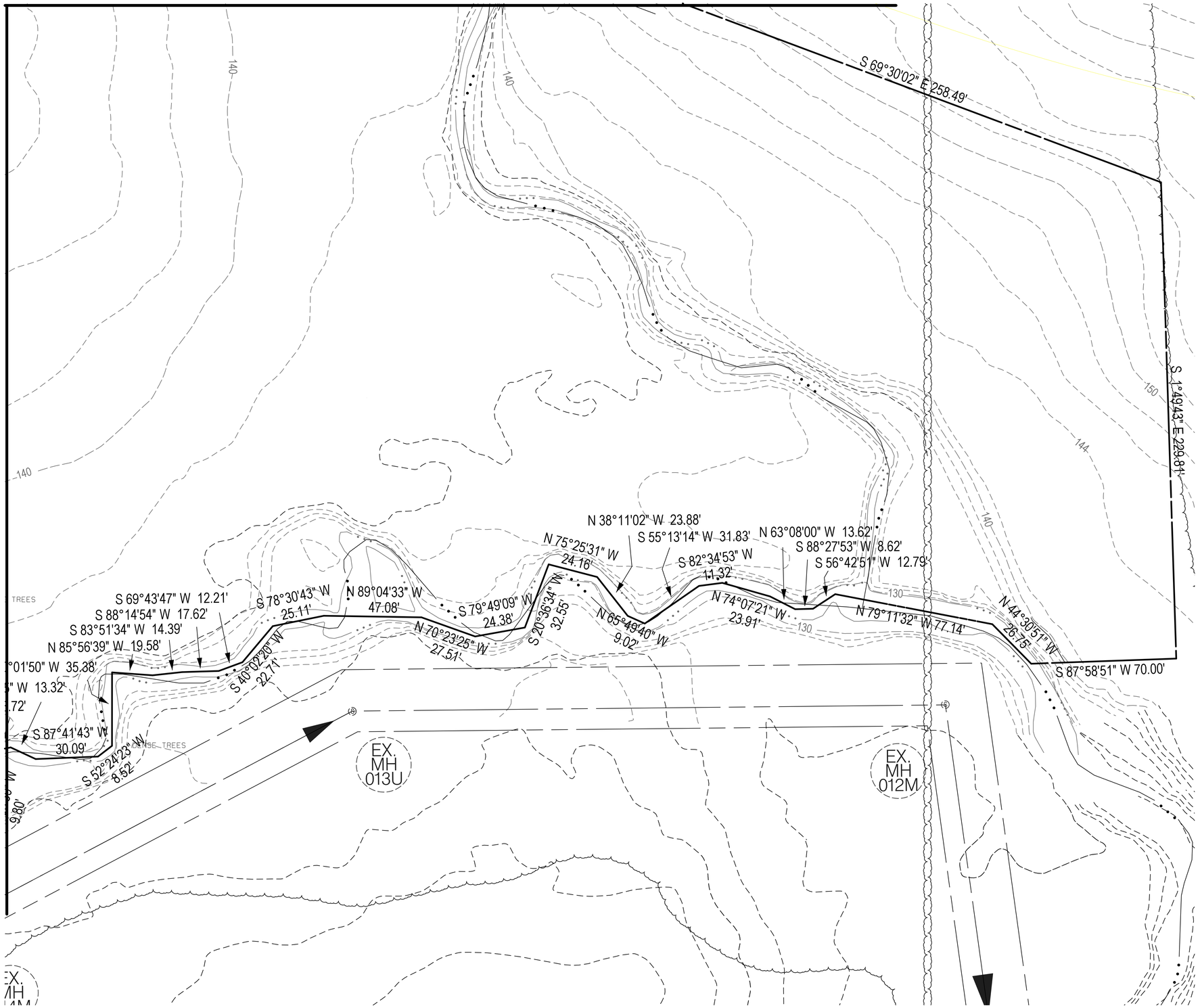
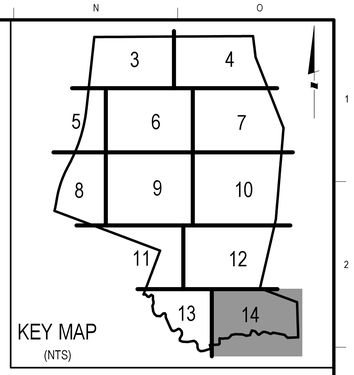
MATCH LINE SEE SHEET 12

MATCH LINE SEE SHEET 13





SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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Environmental Sciences

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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MAY, 2019 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CV | TECHNICIAN: ZAH | CHECKED: THD

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

RICKER BROTHERS REALTY CO.
117 RIVERVIEW RD.
STEVENSVILLE, MD 21666

PHONE # (240)-375-4462

PAT RICKER

MAP _____ GRID _____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09, 209 SE 00
SITE DATUM — HORIZONTAL: NAD 83 — VERTICAL: NGVD 29

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

MELLWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

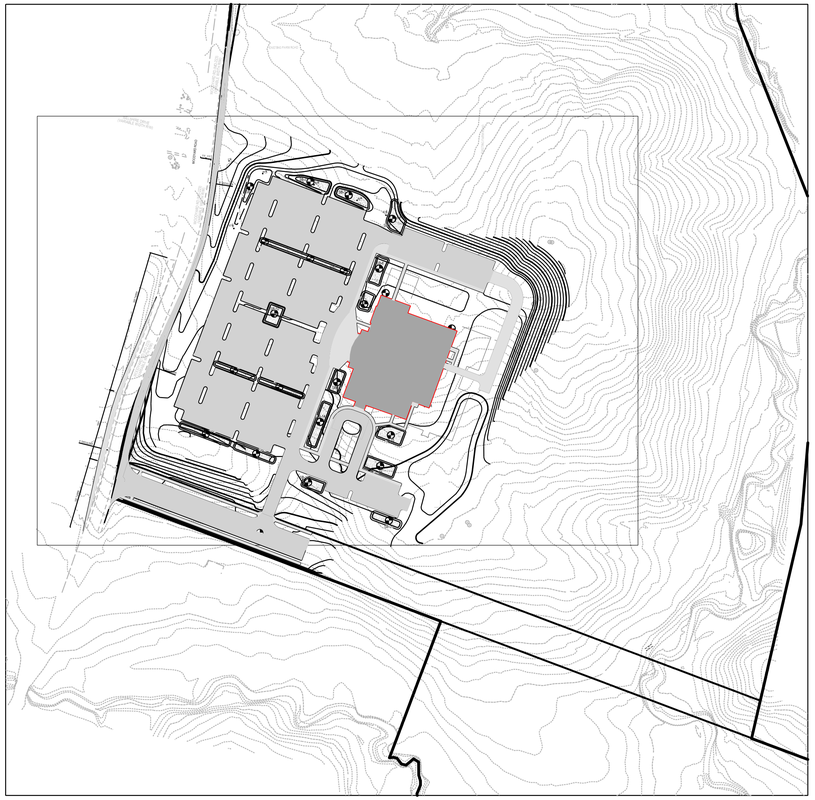
1" = 20'
SHEET 14 OF 15
C-46
PROJECT NO. 1404-06-00

P:\11404600\ENGINEER\SITE\SIT_14.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:34 PM

REFERENCE GRID A B C D E F G H I J K L M N O

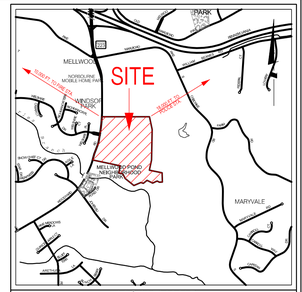
STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND



SCALE: 1" = 150'
NAD83/NGVD29

150 75 0 150 300



VICINITY MAP
SCALE: 1"=2000'

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DEPARTMENT PERMIT NUMBER	PARCEL AND/OR LOT AND BLOCK INDENTIFIERS

GRADING CERTIFICATION

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

KYLE J. WALKER DATE:
MD. REG. NO. 33901

BMP & ESD AS-BUILT CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE STORMWATER MANAGEMENT FACILITIES (BOTH BMP AND ESD) SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTION AND ENFORCEMENT.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 33901 , EXPIRATION DATE: 06/06/2020 .

DRAINAGE CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE CODE OF PRINCE GEORGE'S COUNTY WATER RESOURCES PROTECTION AND GRADING CODE; AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO DOWNHILL PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

UTILITY CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

DPIE # XXXXX-2018-00

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NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS TECHNICIAN: CHECKED:

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP GRID

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

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LICENSE NO. 33901 , **EXPIRATION DATE:** 06/06/2020

COVER SHEET

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = 150'
C-47
SHEET 1
OF 21
PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav01.sht Scale= 150.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:34 PM

Prince George's County Government
Department of Permitting, Inspections and Enforcement
Site/Road Plan Review Division
9400 Peppercorn Place, Suite 420
Largo, Maryland 20774

Final Plan BMP SUMMARY TABLE

Jul-18

Project Name: GALILEE BAPTIST CHURCH | **Concept No.: 29538-2016-00** | **Permit No.:** | **Total Site Acreage: 20.31 Acres**

	SUB AREA	LABEL	NAME	MD NORTH	MD EAST	LAND USE	CONSTRUCTION PURPOSE	DRAINAGE AREA (AC)	TOTAL IMPERVIOUS AREA (AC)	NEW IMPERVIOUS AREA (AC)	EXISTING IMPERVIOUS AREA (AC)	PERCENT IMPERVIOUS	Rv	TARGET P_E (IN)	TARGET VOL (FT^3)	DESIGN VOL (FT^3) USING ESD PRACTICES	MAX ESD VOL (ESD max) (CF)	RCN	ON_OFF_SITE
POI A	DA1	MBR 01	Micro-Bioretention			Commercial	NEWD	0.209	0.115	0.115	0.000	55.1%	0.55	1.80	744	1116	1116	70	On Site
	DA2	MBR 02	Micro-Bioretention			Commercial	NEWD	0.164	0.128	0.128	0.000	77.8%	0.75	2.00	893	1206	1206	70	On Site
	DA3	MBR 03	Micro-Bioretention			Commercial	NEWD	0.459	0.299	0.299	0.000	65.2%	0.64	2.00	2121	2863	2863	70	On Site
	DA4	MBR 04	Micro-Bioretention			Commercial	NEWD	0.340	0.115	0.115	0.000	33.9%	0.36	1.60	702	1184	1184	70	On Site
	DA5	MBR 05	Micro-Bioretention			Commercial	NEWD	0.242	0.108	0.108	0.000	44.5%	0.45	1.80	713	1070	1070	65	On Site
	DA10	MBR10	Micro-Bioretention			Commercial	NEWD	0.423	0.361	0.361	0.000	85.4%	0.82	2.00	2515	3395	3395	70	On Site
	DA11	MBR11	Micro-Bioretention			Commercial	NEWD	0.351	0.291	0.291	0.000	83.0%	0.80	2.00	2031	2695	2742	70	On Site
	DA12	MBR 12	Micro-Bioretention			Commercial	NEWD	0.414	0.353	0.353	0.000	85.2%	0.82	2.00	2455	2788	3314	70	On Site
	DA17	MBR 17	Micro-Bioretention			Commercial	NEWD	0.464	0.365	0.365	0.000	78.6%	0.76	2.00	2555	3449	3449	70	On Site
	DA18	MBR 18	Micro-Bioretention			Commercial	NEWD	0.108	0.077	0.077	0.000	71.6%	0.69	2.00	544	734	734	70	On Site
	DA19	MBR 19	Micro-Bioretention			Commercial	NEWD	0.127	0.096	0.096	0.000	75.8%	0.73	2.00	673	888	908	70	On Site
	DA20	MBR 20	Micro-Bioretention			Commercial	NEWD	0.275	0.214	0.214	0.000	77.9%	0.75	2.00	1501	1593	2027	70	On Site
	DA21	MBR 21	Micro-Bioretention			Commercial	NEWD	0.451	0.277	0.277	0.000	61.3%	0.60	2.00	1970	2660	2660	70	On Site
	DA22	MBR 22	Micro-Bioretention			Commercial	NEWD	0.235	0.154	0.154	0.000	65.4%	0.64	2.00	1089	1240	1470	70	On Site
	DA31	MBR 31	Micro-Bioretention			Commercial	NEWD	0.370	0.287	0.287	0.000	77.6%	0.75	2.00	2007	2710	2710	70	On Site
	DA37	PP1	Permeable Pavements			Commercial	NEWD	0.168	0.049	0.049	0.000	29.3%	0.31	1.60	-	344	-	70	On Site
	DA38	PP2	Permeable Pavements			Commercial	NEWD	0.180	0.083	0.083	0.000	46.3%	0.47	1.80	-	552	-	70	On Site
	DA39	PP3	Permeable Pavements			Commercial	NEWD	0.165	0.069	0.069	0.000	41.6%	0.42	1.80	-	457	-	71	On Site
	DA42	PP6	Permeable Pavements			Commercial	NEWD	0.090	0.090	0.090	0.000	100.0%	0.95	2.20	-	317	-	89	On Site
	DA43	PP7	Permeable Pavements			Commercial	NEWD	0.186	0.186	0.186	0.000	100.0%	0.95	2.20	-	640	-	91	On Site
	DA44	PP8	Permeable Pavements			Commercial	NEWD	0.212	0.212	0.212	0.000	100.0%	0.95	2.20	-	728	-	91	On Site
	DA45	PP9	Permeable Pavements			Commercial	NEWD	0.094	0.094	0.094	0.000	100.0%	0.95	2.20	-	492	-	83	On Site
	DA46	PP10	Permeable Pavements			Commercial	NEWD	0.127	0.116	0.116	0.000	91.0%	0.87	2.20	-	402	-	86	On Site
	DA47	PP11	Permeable Pavements			Commercial	NEWD	0.169	0.162	0.162	0.000	95.8%	0.91	2.20	-	486	-	88	On Site
	DA50	PP14	Permeable Pavements			Commercial	NEWD	0.230	0.230	0.230	0.000	100.0%	0.95	2.20	-	1224	-	83	On Site
	DA51	PP15	Permeable Pavements			Commercial	NEWD	0.181	0.178	0.178	0.000	98.4%	0.94	2.20	-	608	-	88	On Site
	DA52	PP16	Permeable Pavements			Commercial	NEWD	0.195	0.192	0.192	0.000	98.5%	0.94	2.20	-	624	-	90	On Site
	DA53	PP17	Permeable Pavements			Commercial	NEWD	0.157	0.157	0.157	0.000	100.0%	0.95	2.20	-	447	-	89	On Site
	DA54	PP18	Permeable Pavements			Commercial	NEWD	0.123	0.123	0.123	0.000	100.0%	0.95	2.20	-	181	-	86	On Site
		EXISTING UNTREATED AREA						1.65	-	-	-	-	-	-	-	-	-	-	Off Site
	TOTAL							**8.56 ac**	**5.18 ac**	**5.18 ac**	**-**	**60.5%**	**0.70**	**1.95**	**-**	**37,094 cu-ft**	**-**	**72**	
POI B	DA6	MBR 06	Micro-Bioretention			Commercial	NEWD	0.351	0.242	0.242	0.000	69.1%	0.67	2.19	1871	2310	2310	56	On Site
	DA7	MBR 07	Micro-Bioretention			Commercial	NEWD	0.299	0.220	0.220	0.000	73.7%	0.71	2.10	1620	2087	2087	63	On Site
	DA8	MBR 08	Micro-Bioretention			Commercial	NEWD	0.306	0.306	0.306	0.000	100.0%	0.95	2.22	2347	2850	2850	69	On Site
	DA13	MBR 13	Micro-Bioretention			Commercial	NEWD	0.318	0.261	0.261	0.000	82.2%	0.79	2.00	1821	2323	2459	70	On Site
	DA14	MBR 14	Micro-Bioretention			Commercial	NEWD	0.196	0.166	0.166	0.000	84.4%	0.81	2.00	1155	1216	1559	70	On Site
	DA15	MBR 15	Micro-Bioretention			Commercial	NEWD	0.409	0.338	0.338	0.000	82.6%	0.79	2.04	2402	2406	3182	68	On Site
	DA16	MBR 16	Micro-Bioretention			Commercial	NEWD	0.393	0.256	0.256	0.000	65.2%	0.64	2.00	1817	2453	2453	70	On Site
	DA23	MBR 23	Micro-Bioretention			Commercial	NEWD	0.165	0.129	0.129	0.000	78.3%	0.75	2.00	904	676	1220	79	On Site
	DA24	MBR 24	Micro-Bioretention			Commercial	NEWD	0.190	0.152	0.152	0.000	79.8%	0.77	2.00	1061	769	1432	79	On Site
	DA25	MBR 25	Micro-Bioretention			Commercial	NEWD	0.418	0.311	0.311	0.000	74.4%	0.72	2.11	2302	2945	2945	62	On Site
	DA26	MBR 26	Micro-Bioretention			Commercial	NEWD	0.409	0.286	0.286	0.000	70.0%	0.68	2.20	2221	2726	2726	55	On Site
	DA27	MBR 27	Micro-Bioretention			Commercial	NEWD	0.229	0.129	0.129	0.000	56.3%	0.56	1.80	831	1247	1247	55	On Site
	DA28	MBR 28	Micro-Bioretention			Commercial	NEWD	0.172	0.105	0.105	0.000	61.3%	0.60	2.00	751	1013	1013	55	On Site
	DA29	MBR 29	Micro-Bioretention			Commercial	NEWD	0.354	0.315	0.315	0.000	89.1%	0.85	2.40	2625	2597	2953	55	On Site
	DA30	MBR 30	Micro-Bioretention			Commercial	NEWD	0.205	0.126	0.126	0.000	61.4%	0.60	2.00	896	1209	1209	60	On Site
	DA32	MBR 32	Micro-Bioretention			Commercial	NEWD	0.467	0.389	0.389	0.000	83.4%	0.80	2.02	2746	3663	3664	68	On Site
	DA33	MBR 33	Micro-Bioretention			Commercial	NEWD	0.233	0.189	0.189	0.000	80.9%	0.78	2.00	1319	1781	1781	70	On Site
	DA34	MBR 34	Micro-Bioretention			Commercial	NEWD	0.155	0.118	0.118	0.000	75.9%	0.73	2.00	826	1115	1115	70	On Site
	DA35	MBR 35	Micro-Bioretention			Commercial	NEWD	0.225	0.177	0.177	0.000	78.8%	0.76	2.00	1237	1670	1670	70	On Site
	DA36	MBR 36	Micro-Bioretention			Commercial	NEWD	0.432	0.336	0.336	0.000	77.9%	0.75	2.00	2354	3178	3178	70	On Site
	DA48	MBR 09	Micro-Bioretention			Commercial	NEWD	0.415	0.353	0.353	0.000	85.0%	0.81	2.00	2456	3316	3316	70	On Site
		EXISTING UNTREATED AREA						4.520	-	-	-	-	-	-	-	-	-	-	Off Site
	TOTAL							**10.86 ac**	**4.90 ac**	**4.90 ac**	**-**	**45.2%**	**0.65**	**1.79**	**-**	**43,551 cu-ft**	**46,371 cu-ft**	**58**	
POI C	**TOTAL**	EXISTING UNTREATED AREA						**11.77 ac**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	OFF SITE

Area LOD	Drainage Area sq. ft.	Limits of Facility sq. ft.	Imp. D.A. sq. ft.	% of Imp. Cover	A Soil	B Soil	C Soil	D Soil	Target PE (in.) Table 5.3	Provided P_E (in.)	Rv	Target ESDv cu. ft.	Min. ESDv Req. cu. ft.	Provided ESDv cu. ft.	Reduced RCN	Type of Facility
POI A	373,745	N/A	231,304	62%	0%	5%	95%	0%	2.00	2.02	0.607	**37,810**	**18,915**	**37,094**	72	VARIES
POI B	473,249	N/A	258,746	55%	0%	28%	72%	0%	2.00	2.10	0.542	**42,756**	**20,895**	**43,551**	58	VARIES
LOD	884,704	N/A	490,050	55%	0%	18%	82%	0%	2.00	2.06	0.540	**80,566**	**39,810**	**80,645**	72	VARIES

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

FINAL BMP SUMMARY

SOLTESZ, LLC
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Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

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STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = N.T.S.
C-48
SHEET 2 OF 21
PROJECT NO. 1404-06-00

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GENERAL STORM DRAIN AND PAVING NOTES (DPIE)

1) INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND OR VACUUM, AT UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN, OR LESS THAN TWELVE (12) INCHES, CONTACT THE DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT (DPIE) INSPECTOR BEFORE PROCEEDING WITH CONSTRUCTION.

2) ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT.

3) FOR TYPES OF STORM DRAIN STRUCTURES, REFER TO THE LATEST STANDARD DETAILS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT, UNLESS OTHERWISE NOTED.

4) ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: THE DPIE SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES; THE PRINCE GEORGE'S COUNTY CODE, SUBTITLE 23, ROAD ORDINANCE; AND THE PRINCE GEORGE'S COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE.

5) PRIOR TO DIGGING WITHIN THE PUBLIC RIGHT-OF-WAY, CALL "MISS UTILITY" TOLL FREE AT (800) 257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

6) PRIOR TO PERMIT ISSUANCE AND STARTING ANY WORK SHOWN ON THIS PLAN, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE DPIE INSPECTOR BY CALLING (301) 883-5730. AN INITIAL INSPECTION IS REQUIRED PRIOR TO FULL MASS GRADING OF THE SITE.

7) IN ACCORDANCE WITH SECTION 23-128, THE COUNTY'S ROAD ORDINANCE, A PROJECT SIGN SHALL BE POSTED PROMINENTLY DESCRIBING THE FOLLOWING:
   - SUBDIVISION NAME (AS SHOWN ON PERMIT APPLICATION)
   - OWNER/PERMITTEE NAME
   - OWNER/PERMITTEE ADDRESS AND PHONE
   - DPIE PERMIT NUMBER

8) ALL ELEVATIONS SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH THE FOLLOWING: HORIZONTAL MARYLAND COORDINATE SYSTEM (STATE PLANE GRID) BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83); VERTICAL NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NAVD29).

9) TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

10) IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE ADJUSTMENT OR RELOCATION OF ALL UTILITIES.

11) ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER, THE DPIE INSPECTOR, AND/OR THE DEPARTMENT'S ENGINEER.

12) EXCAVATION AND PLACEMENT OF FILL MATERIAL SHALL BE PERFORMED UNDER THE SUPERVISION OF A MARYLAND-LICENSED ENGINEER.

13) THE PERMITTEE WILL BE REQUIRED TO FURNISH COMPACTION REPORTS CERTIFIED BY A MARYLAND-LICENSED ENGINEER ON EACH LAYER OF FILL MATERIAL PRIOR TO PLACING SUBSEQUENT LAYERS.

14) DURING THE PLACEMENT OF A STANDARD PAVEMENT SECTION, NO PAVEMENT COURSE OR STONE LIFT SHALL BE PLACED UNTIL THE UNDERLYING COURSE OR SUBGRADE IS APPROVED BY THE DPIE INSPECTOR. THE APPROVAL SHALL EXPIRE IF TRAFFIC OR INCLEMENT WEATHER AFFECTS THE SITE PRIOR TO PAVING.

15) AS SOON AS THE ASPHALT BASE COURSE IS APPROVED, THE INTERMEDIATE ASPHALT COURSE SHALL BE PLACED IMMEDIATELY OVER IT TO FORM A PROTECTIVE SEAL.

16) TEMPORARY STREET NAME SIGN INSTALLATION AND MAINTENANCE IS THE OBLIGATION OF THE PERMITTEE ONCE BASE PAVING IS COMPLETED.

17) WHERE ROADWAY CONSTRUCTION IS ON OR IN THE VICINITY OF AN EXISTING ROAD, IN-KIND PAVEMENT MARKING AND STRIPING REPLACEMENT (E.G., THERMOPLASTIC, PAINTED, ETC.) ARE REQUIRED. ALSO, APPROPRIATE PAVEMENT MARKING AND STRIPING SHALL BE PROVIDED IN THE AREA OF PAVEMENT WIDENING AND/OR RECONSTRUCTION AND/OR OVERLAY OF AN EXISTING ROAD.

18) SAW CUT AND MILL A 2-INCH DEEP, 10-FOOT-WIDE NOTCH AT EXISTING EDGE OF PAVEMENT WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD. OVERLAY AT POINT OF TIE-IN TO ENSURE A SMOOTH TRANSITION AND POSITIVE DRAINAGE.

19) WHERE IT IS NECESSARY TO WIDEN AN EXISTING ROAD, AND MILLING AND OVERLAY REQUIREMENTS HAVE BEEN WAIVED OR REDUCED, THE WIDENING AND THE EDGE TREATMENT OF EXISTING ROAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPIE STANDARD NO. 300.20 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

20) ALL RESIDENTIAL ROADWAY FILLET RADII SHALL BE AT LEAST 37 FEET, UNLESS OTHERWISE NOTED. ROADWAYS WITH HIGHER CLASSIFICATION REQUIRE 45 FEET AND/OR 50 FEET RADII.

21) AN UNDERDRAIN SYSTEM IS REQUIRED FOR THE FULL LENGTH OF ALL PROPOSED AND MODIFIED ROADWAYS, ON BOTH SIDES, AND TO THE LIMITS OF THE PERMIT SHOWN ON THIS PLAN.

22) ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPIE STANDARDS NO. 300.01 THROUGH 300.04 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

23) BRICK CHANNELIZATION IS REQUIRED IN ALL PUBLIC DPIE STORM DRAIN STRUCTURES. CONCRETE CHANNELIZATION IS NOT ALLOWED.

24) POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE AREA COVERED BY THIS PERMIT AND THROUGH ADJACENT PROPERTY FRONTAGES.

25) ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SODDED.

26) ALL SIDEWALK RAMPS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPIE STANDARDS 300.05 THROUGH 300.10 AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF THE AMERICANS WITH DISABILITIES ACT.

27) ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DPIE STANDARDS AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF AMERICANS WITH DISABILITIES ACT.

28) ALL SIDEWALKS (EXCEPT AS NOTED HEREIN) ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.

29) SIDEWALKS ALONG FRONTAGES OF OPEN-SPACE PARCELS AND THOSE NOT COVERED BY A SINGLE-FAMILY BUILDING PERMIT SHALL BE CONSTRUCTED UNDER THIS STREET CONSTRUCTION PERMIT.

30) THE WIDTH OF A RESIDENTIAL DRIVEWAY APRON AT THE PROPERTY LINE SHALL NOT BE LESS THAN THE WIDTH OF THE ON-SITE PARKING PAD AT ITS WIDEST POINT, A MAXIMUM WIDTH OF 20 FEET, AND A MINIMUM WIDTH OF 10 FEET. A RESIDENTIAL DRIVEWAY APRON FLARE SHALL NOT BE CONSTRUCTED CLOSER THAN 3.5 FEET TO THE NEAREST ABUTTING PROPERTY LINE.

31) ALL DRIVEWAY APRONS ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.

32) ENSURE THAT STREET TREES ARE NO CLOSER THAN 1 FOOT TO THE RIGHT-OF-WAY LINE, IN AN OPEN SPACE SECTION CONFIGURATION, AND NO CLOSER THAN 15 FEET FROM STREET LIGHT OR POLE, AND OF APPROPRIATE HEIGHT SO AS NOT TO INTERFERE WITH EXISTING OR PROPOSED OVERHEAD UTILITY LINES. ALL STREETSCAPE PLANTING SHALL BE IN ACCORDANCE WITH DPIE STANDARDS 600.01 THROUGH 600.20 UNLESS DIRECTED OTHERWISE BY THE DEPARTMENT.

33) PAVEMENT QUALITY CONTROL AND CORING WILL BE REQUIRED OF THE PERMITTEE FOR ALL PAVEMENT COURSES USING THE FOLLOWING PROCESS:
   a. PRIOR TO PAVING, PERMITEE/PAVING CONTRACTOR SHALL ELECTRONICALLY NOTIFY INSPECTOR OF PAVING DATES (FAX CAN OCCASIONALLY BE ACCEPTED), AND PROVIDE INFORMATION NEEDED FOR CORE TESTING REQUEST (CTR FORM #1). DPIE INSPECTOR FILLS OUT THE CTR FORM THEN SENDS IT TO THE MATERIALS LAB.
   b. CONTRACTORS, WHO ARE NEW TO THE MATERIALS LAB, SHALL ELECTRONICALLY SUBMIT QC PLANS TO IT, AND ARRANGE TO BE INITIATED BY IT PRIOR TO PAVING.
   c. THE PERMITEE/PAVING CONTRACTOR MUST PROVIDE A MD-CERTIFIED FIELD TECHNICIAN FOR DAILY QUALITY CONTROL (QC) TESTING DURING THE ENTIRE PAVING OPERATION (NOT JUST IT'S END). FIELD TECHNICIAN SHALL BE ADEQUATELY EQUIPPED WITH A PHONE, CALIBRATED THERMOMETER, AND A CALIBRATED THIN-LIFT DENSITY GAUGE FOR QC AND INSPECTOR-REQUESTED TESTING.
   d. HMA DENSITY GAUGES SHALL BE VALIDATED AND CALIBRATED DAILY (SHA 504.03.10. A.2), SO THEIR READINGS CAN BE ACCEPTED FOR COURSE PLACED WITH A TOTAL TONNAGE UNDER 200 TONS OR ACCEPTABLE THICKNESS UNDER 1.2" DUE TO PATCHING, WEDGE & LEVELING, BRIDGE DECKS, ...ETC.
   e. FIELD TECH. SHALL CALL THE MATERIALS LAB WITH DATE & TIME OF CORE CUTTING SO IT CAN BE WITNESSED, AND CORES & HMA SAMPLES CAN BE RECEIVED ON SITE BY A LAB INSPECTOR.
   f. INSPECTOR RANDOMLY SELECTS & MARKS CORE LOCATIONS IN THE FIELD; NOTES THEM DOWN ON THE CTR STATING STREET'S NAME AND ADDRESS, LOT #, STA #, OR DISTANCE FROM NEAREST INTERSECTION; THEN FAXES THE CTR AGAIN TO THE LAB, AND GIVES TO FIELD TECH BOXES FOR ONLY PR. GEORGE'S COUNTY HMA SAMPLES.
   g. FIELD TECH. SHALL CHECK DELIVERY TICKETS FOR COUNTY-REQUIRED INFO, COLLECT AT LEAST ONE BEHIND-THE-PAVER HMA SAMPLE/MIX/DAY, AND CUT AT LEAST 5 CORES/MIX/DAY BUT NO LESS THAN 2 CORES FROM EACH STREET, UNLESS OTHERWISE INSTRUCTED BY AN INSPECTOR; THEN HAND OVER THE SAMPLES TO DPIE INSPECTOR NO LATER THAN ONE (1) BUSINESS DAY FROM THE PAVING.
   h. IF, AT THE LAB'S DISCRETION, THE CORES' CUTTING IS NOT WITNESSED, CORES SHALL BE RECEIVED IN THE LAB, IN ONE BUSINESS DAY FROM PAVING, AS LONG AS THEY ARE NUMBERED AND WELL IDENTIFIED ON FORM #2 BY: PROJECT NAME, STREET NAME, CORE LOCATION, PAVING DATE, CORING DATE, MIX CODE, ...ETC. IF NOT PROPERLY IDENTIFIED, CORES WILL NOT BE ACCEPTED.
   i. IF, AT THE LAB'S DISCRETION, A BEHIND-THE-PAVER HMA SAMPLE IS NOT RECEIVED ON SITE, IT SHALL BE RECEIVED IN THE LAB ALONG WITH CERTIFIED DELIVERY TICKETS, IN ONE (1) BUSINESS DAY, AND BE IDENTIFIED BY: PROJECT NAME, SAMPLING LOCATION, PAVING DATE, & STATE MIX DESIGNATION. IF NOT PROPERLY LABELED, HMA SAMPLES WILL NOT BE ACCEPTED.
   j. IF CORES ARE TESTED AT AN INDEPENDENT THIRD PARTY'S TESTING LAB, THAT LAB MUST BE AASHTO ACCREDITED FOR SPECIFIC TESTS, AND BE INITIATED BY THE MATERIALS LAB, WHICH SHALL BE NOTIFIED (FAX CAN OCCASIONALLY BE ACCEPTED), OF THE TESTING DATE & TIME SO IT MAY WITNESS THE 3RD PARTY TESTING.
   k. CORE RESULTS SHALL BE REPORTED ON CORE ANALYSIS (FORM #2), E-MAILED TO MATERIALS LAB & INSPECTOR NO LATER THAN ONE BUSINESS DAY FROM TESTING (ONE DAY FROM CUTTING FOR COMPANION CORES), AND MAILED OUT TO PERMITEE.
   l. FIELD TECHNICIANS AND THIRD PARTY TESTING LABS SHALL MAINTAIN A LOG OF THEIR TEST RESULTS; RECOMMENDATIONS, AND ACTIONS TAKEN TO CORRECT THE PROBLEMS, IF ANY. THE LOG SHALL BE AVAILABLE TO DPIE FOR REVIEW UPON ANY DPIE INSPECTOR'S REQUEST.

34) PERMITTEE SHALL SUBMIT PROPERTY CORNER CERTIFICATIONS AND UTILIZE METAL PROPERTY MARKERS PER PRINCE GEORGE'S COUNTY CODE, SECTION 24120, PRIOR TO ACCEPTANCE OF STREETS.

35) WASHINGTON SUBURBAN SANITARY COMMISSION 200 FOOT SHEET NO.: 208 SE 09/10

36) DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT SITE CONCEPT APPROVAL NUMBER: xxxxx-2018-xx

37) SEDIMENT CONTROL APPROVAL NUMBER: SC# XXX-XX

38) PRELIMINARY PLAN APPROVAL NUMBER: X-XXXXX

39) RECORD PLAT RECORDING NUMBER:

40) APPROVED STREET GRADE ESTABLISHMENT INFORMATION:

ORIGINAL STREET NAME	APPROVAL NUMBER

41) AT THE TIME OF PERMIT RELEASE, THE FOLLOWING MINIMUM SUBMITTAL REQUIREMENTS WHERE APPLICABLE SHALL APPLY:
   - WASHINGTON SUBURBAN SANITARY COMMISSION PAVING CLEARANCE CERTIFICATION;
   - BITUMINOUS CONCRETE CORE CERTIFICATIONS, ALL PAVEMENT COURSES;
   - PROPERTY MARKER CERTIFICATION;
   - DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT LETTER APPROVING STORM DRAIN AS-BUILT;
   - TREE APPROVAL AND TREE BOND POSTED, IF NECESSARY;
   - STREET LIGHT PROOF OF PAYMENT (MUST BE ACCOMPANIED BY A MEMORANDUM FROM DPIE'S TRAFFIC SAFETY DIVISION ACCEPTING THE PROOF OF PAYMENT); AND
   - PROOF/STATEMENT THAT ALL FINANCIAL MATTERS HAVE BEEN SETTLED.

42) THE PERMITTEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC SIGNS, TRAFFIC SIGNALS, AND ROADWAY MARKINGS FOR ROADWAY IMPROVEMENTS ON SUBDIVISION ACCESS ROADS WHICH INCLUDE ARTERIAL, COLLECTOR, INDUSTRIAL, AND ANY NECESSARY OFFSITE CONDITIONS WHICH REQUIRE ROADWAY IMPROVEMENTS. THE DESIGN AND/OR CONSTRUCTION DRAWINGS SHALL BE INCLUDED ALONG WITH THE PERMIT PLANS, AND SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT'S TRAFFIC SAFETY DIVISION PRIOR TO PERMIT ISSUANCE.

43) THE PERMITTEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC MARKINGS, TRAFFIC SIGNALS, IF REQUIRED, AND PAYMENT OF FEE FOR STREET NAME SIGNS ON INTERNAL SUBDIVISION STREETS. TRAFFIC SIGNS WILL BE FURNISHED AND INSTALLED BY THE COUNTY.

44) ALL CONCRETE PIPE SYSTEMS 48 INCHES OR LESS SHALL BE INSPECTED WITH A VIDEO CAMERA AS PART OF THE FINAL "AS BUILT" CONSTRUCTION REQUIREMENTS.

GENERAL STORM DRAIN NOTES (OTHER)

1) ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES, UNLESS OTHERWISE NOTED.

2) FOR TYPES OF STRUCTURES REFER TO THE LATEST STORMWATER MANAGEMENT STANDARD DETAILS, DER (SWMSD), UNLESS OTHERWISE NOTED.

3) INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED, CONTACT THE ENGINEER, AND THE OWNER OF OTHER INVOLVED UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.

4) ALL STORM DRAIN PIPES MUST HAVE A MINIMUM OF 1 FOOT COVER.

5) ALL INLET TOP SLAB FRONT FACES SHALL BE PAINTED WITH THE FOLLOWING CHESAPEAKE BAY DRAINAGE, "DON'T DUMP" (STANDARD 82.0).

6) CONTRACTORS SHALL ADJUST ALL EXISTING UTILITIES AS NEEDED TO ONSTRUCT PROPOSED ROAD IMPROVEMENTS. ADJUSTMENTS MAY INCLUDE BUT NOT LIMITED TO MANHOLE COVERS, VALVES, FIRE HYDRANTS, STORM DRAIN INLETS, STREET LIGHTS, TRAFFIC SIGNALS STRUCTURES, UTILITY POLES, SIDEWALKS, BURIED UTILITY CONDUIT AND PIPES.

STORM DRAIN PLAN LEGEND

PG 10/08

	EXISTING	PROPOSED
BORING LOCATIONS		
BUILDING	FF=123.45	FF=123.45
CONTOUR (INDEX, INTERMEDIATE)	102 / 100	202 / 200
CURB & GUTTER	EX CONC C&G	CONC C&G
EASEMENTS (LABEL, LINE)	EX SD EASEMENT	SD EASEMENT
EDGE OF PAVEMENT	EX EOP	EOP
ENVIRONMENTAL BUFFER	EB	EB
FENCE — CHAIN LINK	X X X	X X X
FENCE — WOOD	/ / / /	/ / / /
FENCE — WROUGHT IRON	o o o	o o o
FLOODPLAIN DELINEATION (100YR)	FP	FP
FLOODPLAIN BUFFER	FPB	FPB
MILL & OVERLAY AREA		
PAVING- ASPHALT		
PRIMARY MANAGEMENT AREA (PMA)	PMA	PMA
PROPERTY LINE (SITE, ADJOINERS)		
PUBLIC UTILITY EASEMENT	10' PUE	10' PUE
SIDEWALK	EX SIDEWALK	6' SIDEWALK
SPOT SHOTS	x123.4	+23.4
TREE CONSERVATION (TREE SAVE AREA)		
TREE CONS. (NATURAL REGENERATION AREA)		
TREE CONS. (REFORESTATION AREA)		
TREE LINE		
WALLS (CONCRETE, WOOD)	EX RET WALL	RET WALL
WATER LINE TRENCH (24")		
WETLAND (BUFFER, DELINEATION)	WB / WL	WB / WL

UTILITIES

	EXISTING	PROPOSED
CABLE (LINE, MANHOLE, VAULT)	C COMCAST CTV	C COMCAST CTV
ELECTRIC (LINE, MANHOLE, POLE, VAULT/BOX)	E E OH - E	E UG - E OH - E
NATURAL GAS (LINE, MANHOLE, MARKER)	G EX 6" NG	G 6" PNG
SEWER (LINE, MANHOLE)	S EX 8" SAN	8"S
STORMDRAIN (LINE, INLETS, MANHOLE)	D EX 15" RCP SD	D 15" RCP
TELEPHONE (LINE, MANHOLE, VAULT/BOX)	T T OH -T	T UG - T OH -T
WATER (LINE, HYDRANT, MANHOLE, METER, VALVE, WELL)	W EX 8" W	8"W
WATER LINE GREATER THAN 15"	EX 24"	24" W

STORMWATER DEVICE LEGEND

10-YEAR WSEL	
MICRO-BIO RETENTION DEVICE	
CLEANOUT/OBSERVATION WELL	CLEANOUT/OBSERVATION WELLS
LOD (LIMIT OF DISTURBANCE)	LOD
LOW (LIMIT OF WORK)	LOW

DPIE # XXXXX-2018-00

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO.: 33901, EXPIRATION DATE: 06/06/2020

GENERAL NOTES & LEGEND

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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS | TECHNICIAN: | CHECKED:

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION, IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83	
VERTICAL: NGVD29	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = N.T.S.
C-49
SHEET 3
OF 21
PROJECT NO. 1404-06-00

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MATCHLINE - MATCH SHEET 5

SWM DRAINAGE AREA MAP LEGEND

PG 109B

EXISTING / PROPOSED

- DRAINAGE DIVIDE
- PROPERTY LINE (SITE, ADJOINERS)
- SOILS BOUNDARY/SOILS LABEL (SOURCE: USDA SOIL SURVEY OF PRINCE GEORGE'S COUNTY, VERSION 13, SEPTEMBER 30, 2015) — AdB2, CI
- STORMDRAIN (LINE, INLETS, MANHOLE) — EX 15" RCP; 15" RCP; EX 111; EX 225; 15" 105; 30" 100
- STRUCTURE NUMBERS
- TIME OF CONCENTRATION PATH
- IMPERVIOUS SURFACES
- CONTOUR (INDEX, INTERMEDIATE) — 102 / 202; 100 / 200

DRAINAGE AREA	INLET/MBR	AREA (AC.)	IMPERVIOUS AREA (AC.)	RUNOFF COEFFICIENT, Cw
104	IN104/MBR3	0.46	0.35	0.77
108	IN108/MBR2	0.47	0.36	0.77
112	IN112/MBR1	0.34	0.20	0.67
114	IN114	0.12	0	0.35

40 20 0 40 80

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 EXPIRATION DATE: 06/06/2020

DRAINAGE AREA MAP

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
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MAP ____ GRID ____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

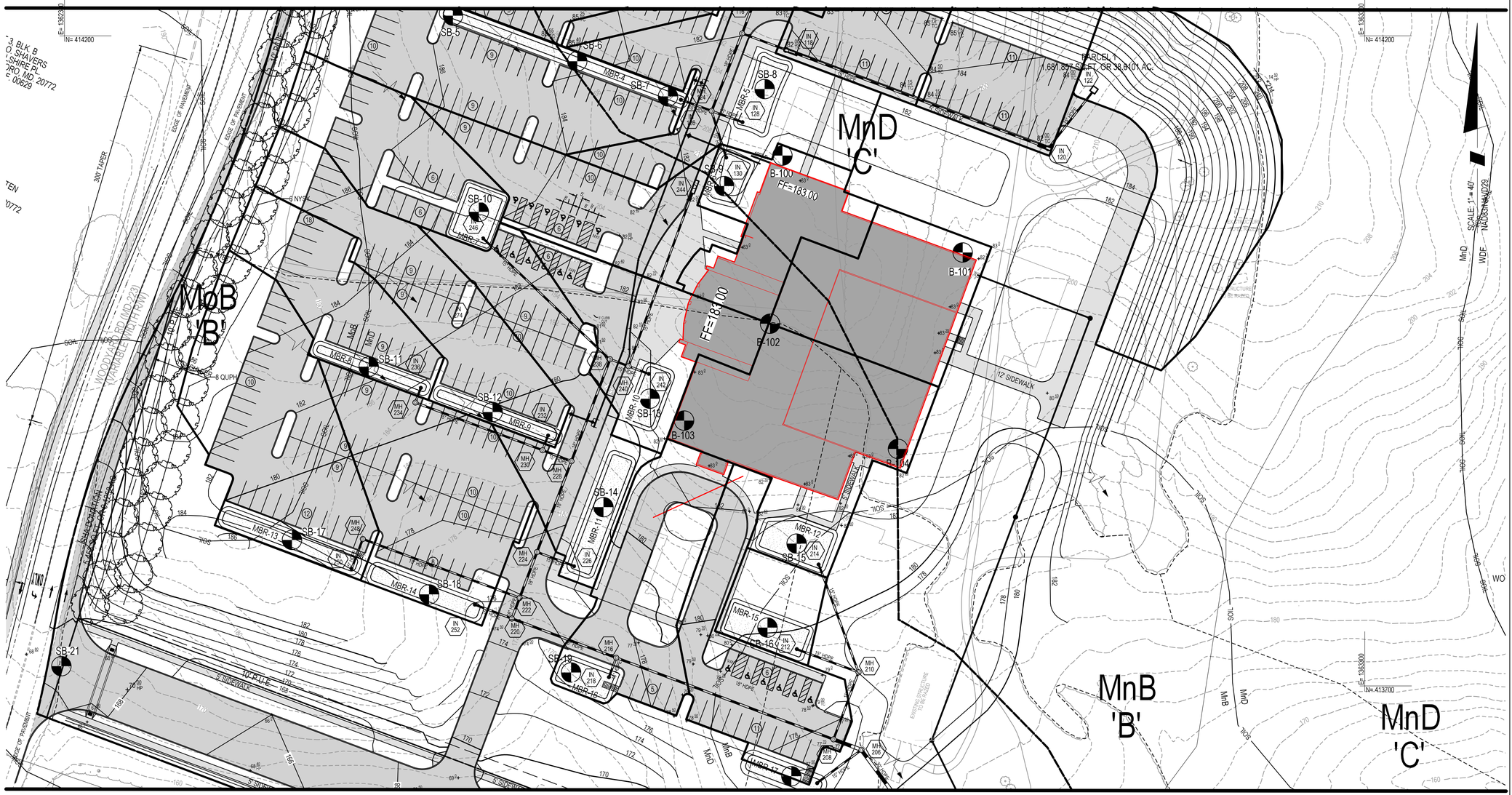
STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH = 40'
1" = 40'
C-50
SHEET 4 OF 21
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav04.sht Scale= 40.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:40 PM

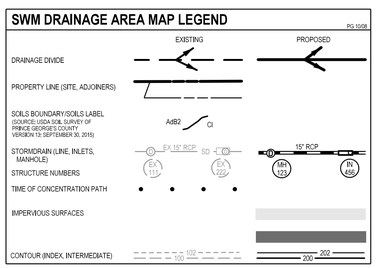
MATCHLINE - MATCH SHEET 4



MATCHLINE - MATCH SHEET 6

DRAINAGE AREA	INLET/MBR	AREA (AC.)	IMPERVIOUS AREA (AC.)	RUNOFF COEFFICIENT, Cw
118	IN118	0.22	0.17	0.75
120	IN120	0.28	0.18	0.67
122	IN122	0.60	0	0.35
126	IN126/MBR4	0.47	0.29	0.65
128	IN128/MBR5	0.41	0.31	0.74
130	IN130/MBR6	0.26	0.22	0.79
212	IN212/MBR15	0.43	0.32	0.73
214	IN214/MBR13	0.48	0.40	0.79
218	IN218/MBR16	0.35	0.21	0.63
226	IN226/MBR11	0.36	0.29	0.77
232	IN232/MBR10	0.37	0.26	0.72
236	IN236/MBR8	0.26	0.18	0.71
242	IN242/MBR9	0.29	0.22	0.74
244	IN244	0.31	0.26	0.80
246	IN246/MBR7	0.29	0.20	0.70
250	IN250/MBR12	0.50	0.32	0.70
252	IN252/MBR14	0.43	0.37	0.83
254	IN254/MBR17	0.46	0.26	0.62

SWM DRAINAGE AREA MAP LEGEND



40 20 0 40 80

DPIE # XXXXX-2018-00

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, **LICENSE NO.:** 33901 , **EXPIRATION DATE:** 06/06/2020

DRAINAGE AREA MAP

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

SOLTESZ, LLC

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Environmental Sciences

4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656

www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS | TECHNICIAN: | CHECKED:

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

ONE INCH = 1" = 40'

SHEET 5 OF 21

C-51

PROJECT NO. 1404-06-00

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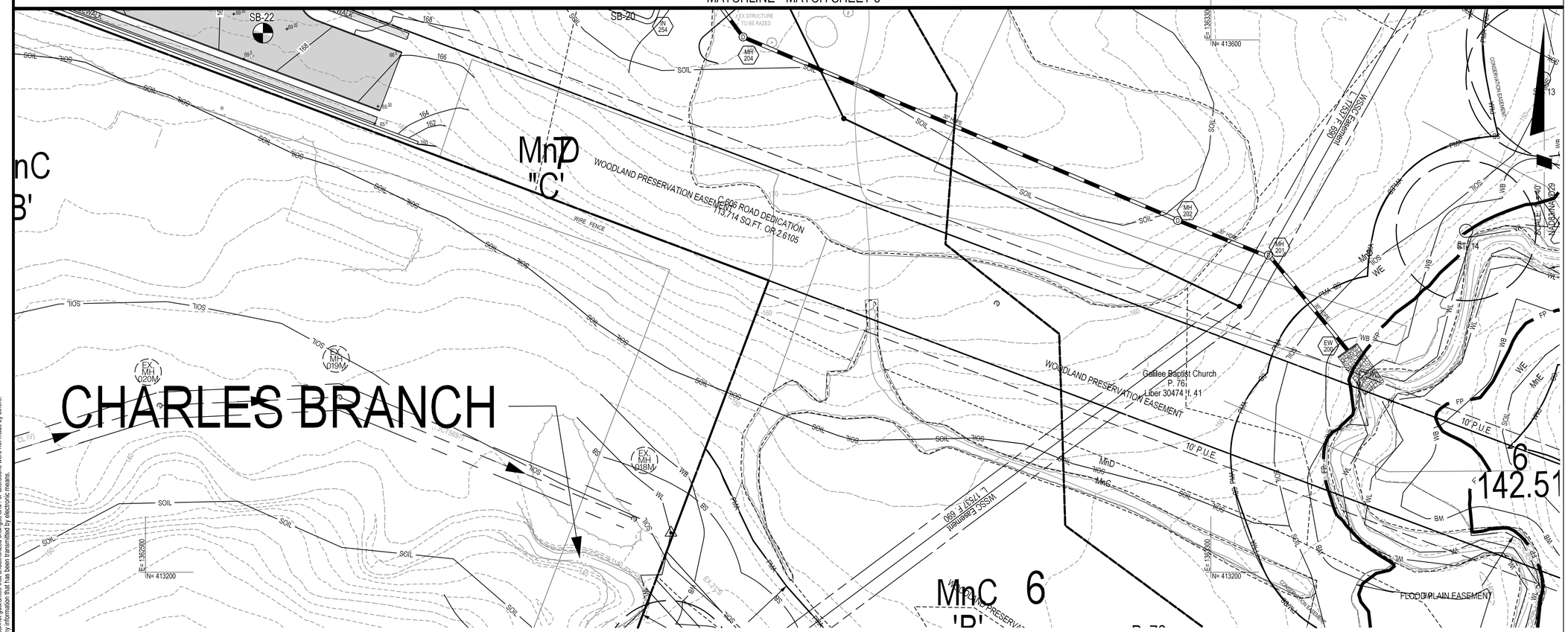
REFERENCE GRID A B C D E F G H I J K L M N O

MATCHLINE - MATCH SHEET 5



SWM DRAINAGE AREA MAP LEGEND PG 1008

	EXISTING	PROPOSED
DRAINAGE DIVIDE		
PROPERTY LINE (SITE, ADJOINERS)		
SOILS BOUNDARY/SOILS LABEL (SOURCE: USDA SOIL SURVEY OF PRINCE GEORGE'S COUNTY VERSION 13; SEPTEMBER 30, 2015)	AdB2 CI	
STORMDRAIN (LINE, INLETS, MANHOLE)	EX 18" RCP SD	18" RCP
STRUCTURE NUMBERS	EX 111 EX 122	MH 123 IN 255
TIME OF CONCENTRATION PATH		
IMPERVIOUS SURFACES		
CONTOUR (INDEX, INTERMEDIATE)	102 100	202 200

40 20 0 40 80

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

DRAINAGE AREA MAP

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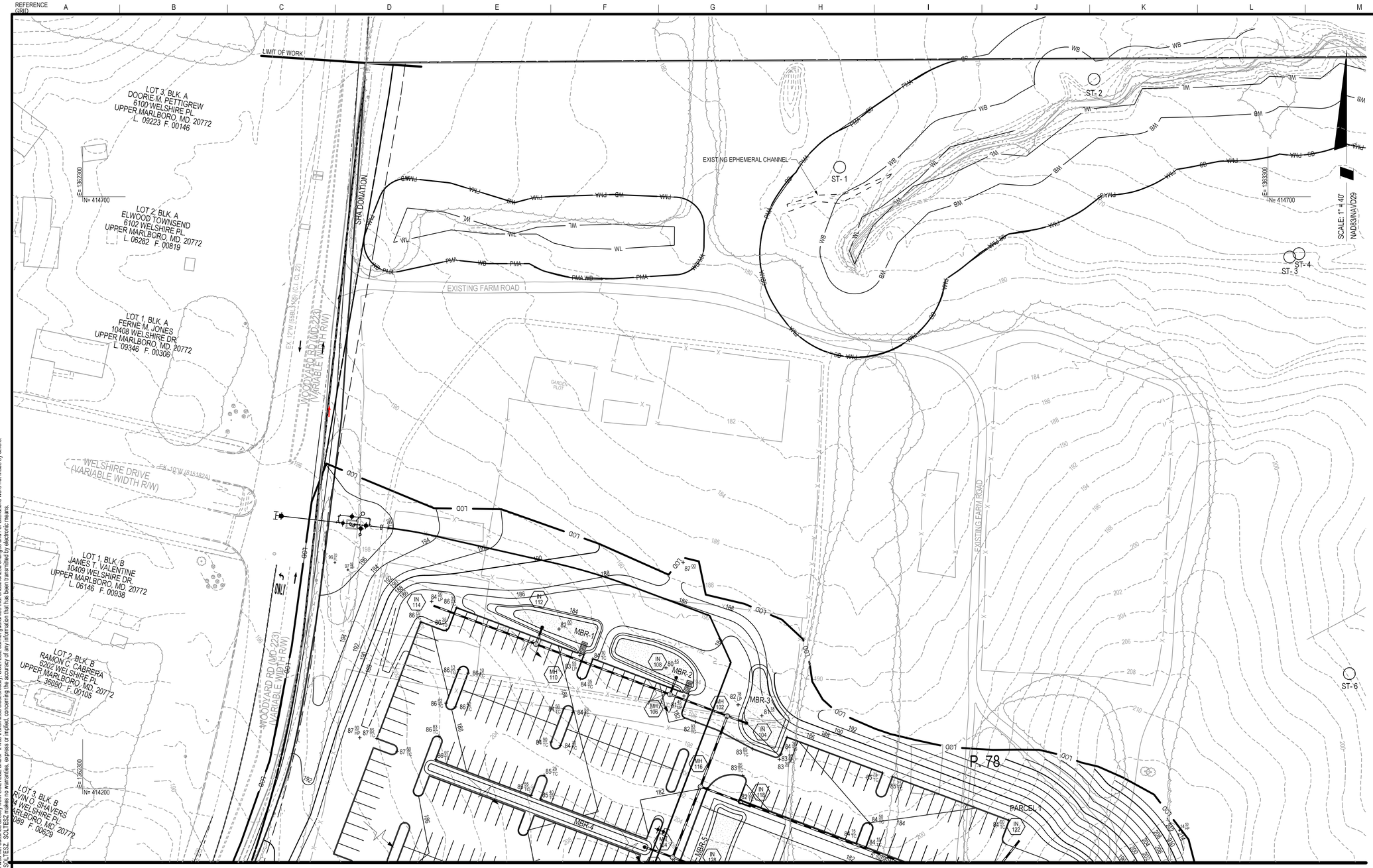
GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP ____ GRID ____
TAX MAP: 100, B4 ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = 40'
SHEET 6 OF 21
C-52
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav06.sht Scale= 40.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:42 PM



MATCHLINE- MATCH SHEET 9

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 EXPIRATION DATE: 06/06/2020

PLAN VIEW

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH

1" = 40'

C-53

SHEET 7 OF 21

PROJECT NO. 1404-06-00

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NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS | TECHNICIAN: | CHECKED:

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MAP ____ GRID ____

TAX MAP	ZONING CATEGORY:
100, B4	R-A

WSSC 200' SHEET
208 SE 09/10
209 SE 09/10

SITE DATUM
HORIZONTAL: NAD83
VERTICAL: NGVD29

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REFERENCE GRID: A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

SCALE: 1" = 40'
NAD83/NAVD29

MATCHLINE- MATCH SHEET 8

MATCHLINE- MATCH SHEET 10

40 20 0 40 80

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

PLAN VIEW

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH = 1" = 40'

C-54
SHEET 8 OF 21

PROJECT NO. 1404-06-00

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NO.	REVISIONS	BY	DATE

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DESIGNED: NDS
TECHNICIAN:
CHECKED:

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2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP GRID

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83	
VERTICAL: NGVD29	

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REFERENCE GRID: A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

SCALE: 1" = 40'
NAD83/NAVD29

MATCHLINE- MATCH SHEET 09

40 20 0 40 80

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

PLAN VIEW

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SUITLAND, MD 20746

MAP _____ GRID _____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM — HORIZONTAL: NAD83 — VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 40'
C-55
SHEET 9
OF 21
PROJECT NO. 1404-06-00

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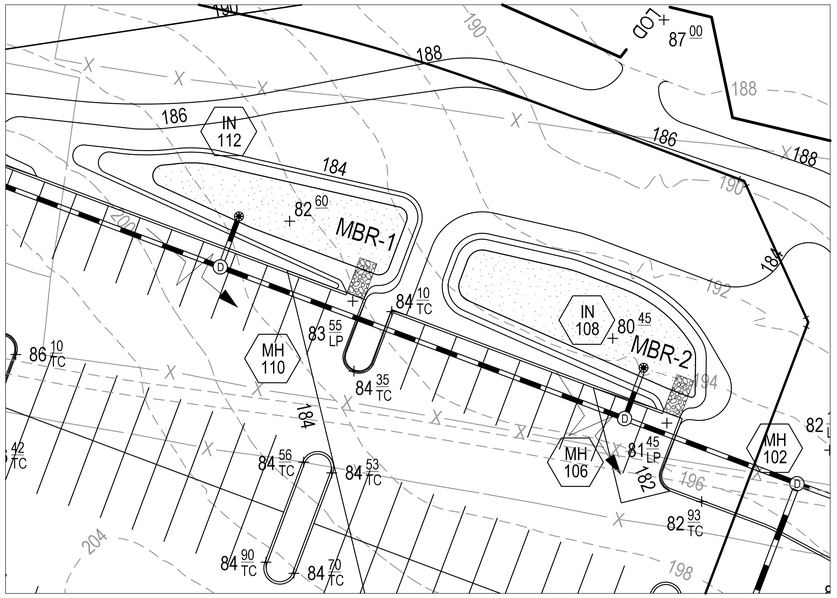
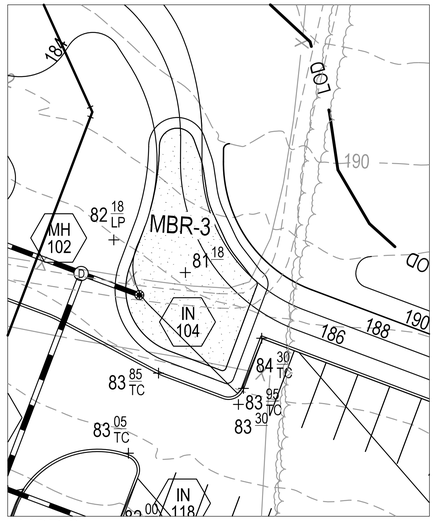


MBR-1, MBR-2



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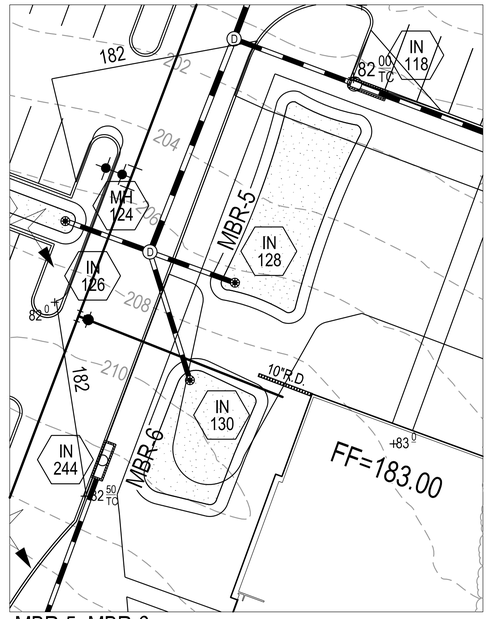
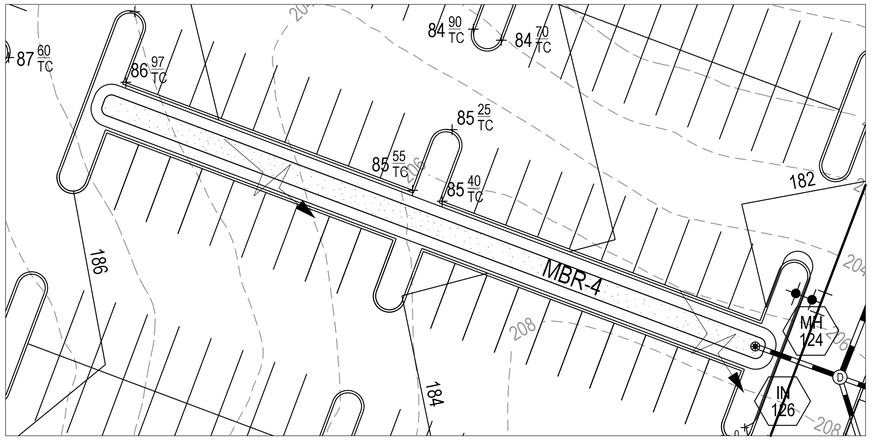


MBR-5, MBR-6



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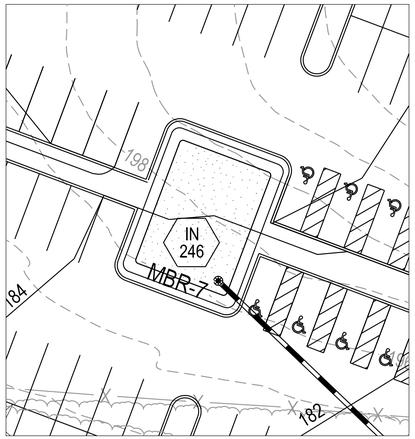

MBR-7

SCALE: 1" = 20'
NAD27/NAVD29

20 10 0 20 40

"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, THAT THIS "AS-BUILT" TRULY REPRESENTS EXISTING FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, DIAMETERS, LINE AND GRADE, AND ELEVATIONS.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ , EXPIRATION DATE: _____ .

SWM AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY WAS CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND MEETS OR EXCEEDS THE REQUIREMENTS OF THE NATURAL RESOURCES CONSERVATION SERVICE - MARYLAND CONSERVATION PRACTICE STANDARD FOR PONDS (MD-378) AND THE APPROVED POND PLANS AND SPECIFICATIONS AND THE VEGETATIVE COVER IS AT LEAST 95%.

KYLE J. WALKER DATE:
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DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 05/06/2020

ESD PLAN VIEW

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NO.	REVISIONS	BY	DATE

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DESIGNED: NDS | TECHNICIAN: | CHECKED:

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT
GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM
HORIZONTAL: NAD83
VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'
SHEET 10 OF 21
C-56
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav10.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:46 PM

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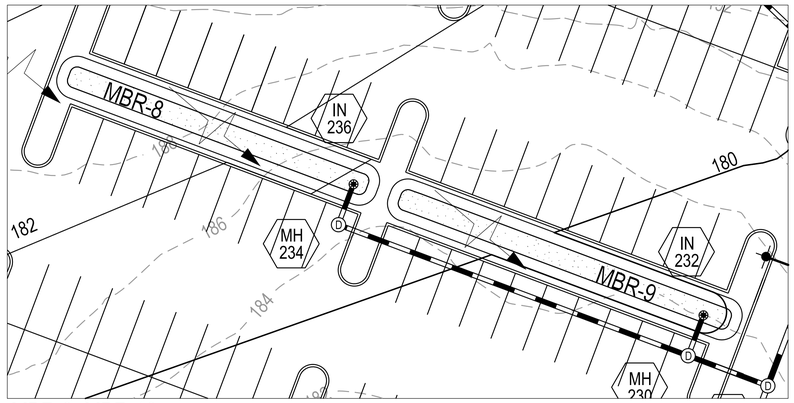
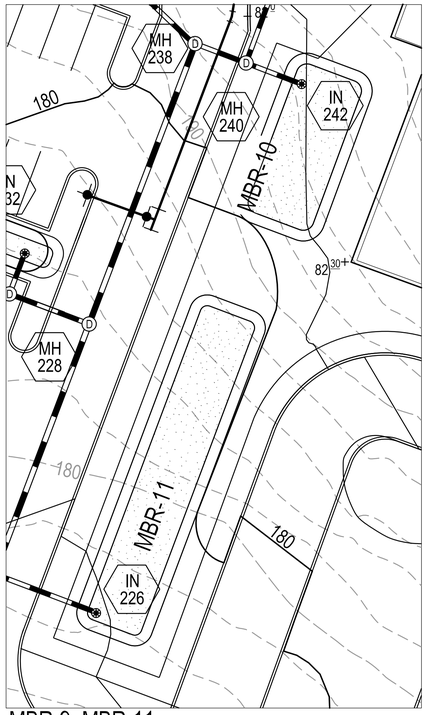
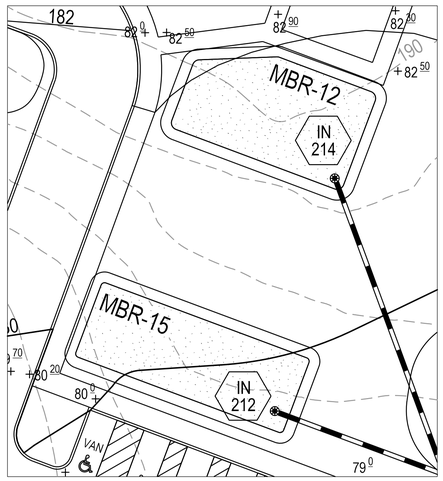


MBR-8, MBR-10

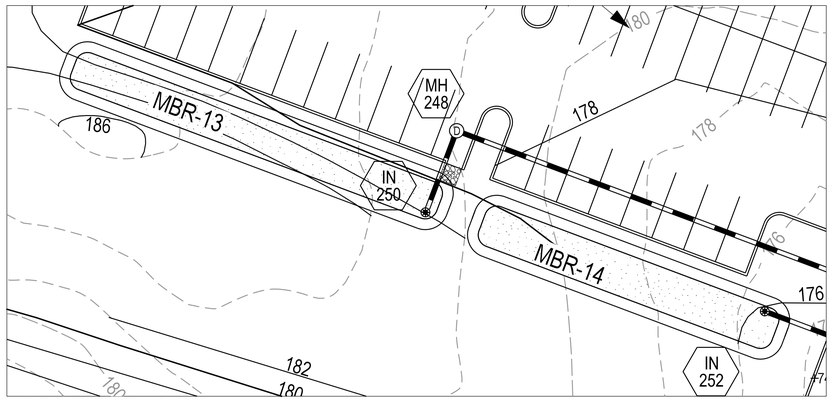


MBR-9, MBR-11

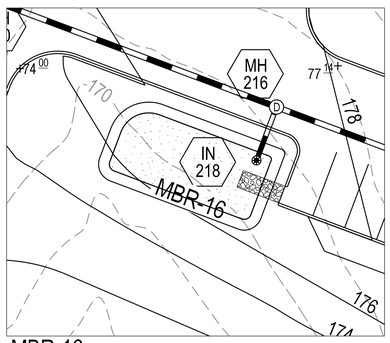


MBR-13, MBR-15

SCALE: 1" = 20'



MBR-12, MBR-14



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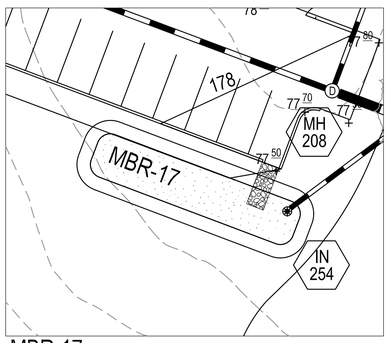

MBR-17

20 10 0 20 40

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SWM AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY WAS CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND MEETS OR EXCEEDS THE REQUIREMENTS OF THE NATURAL RESOURCES CONSERVATION SERVICE - MARYLAND CONSERVATION PRACTICE STANDARD FOR PONDS (MD-378) AND THE APPROVED POND PLANS AND SPECIFICATIONS AND THE VEGETATIVE COVER IS AT LEAST 95%.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

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DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

ESD PLAN VIEW

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS TECHNICIAN: CHECKED:

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83	
VERTICAL: NGVD29	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 20'
C-57
SHEET 11 OF 21
PROJECT NO. 1404-06-00

REFERENCE GRID

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

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50 25 0 50 100

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STORM DRAIN PROFILES

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SITE DATUM	
HORIZONTAL: NAD83	
VERTICAL: NGVD29	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH

1" = 50'

C-58

SHEET 12 OF 21

PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav12.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:47 PM

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STORM DRAIN PROFILES

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

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ONE INCH

1" = 50'

SHEET 15 OF 21

PROJECT NO. 1404-06-00

C-59

P:\14040600\ENGINEER\PAVSTORM\Pav13.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:48 PM

REFERENCE GRID: A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

STRUCTURE SCHEDULE

STRUCTURE NUMBER	TYPE	STD. DETAIL	WIDTH OR DIA.	INV. (OUT)	AS-BUILT INV.	STATION TOP ELEVATION	AS-BUILT TOP ELEVATION	COMMENTS
EW100	END-WALL	DER SD30.0		54.84				
MH102	TYPE A MANHOLE	DER SD21.1	30"	53.48				
IN104	NYLOPLAST	-	48"	52.89				
MH106	TYPE A MANHOLE	DER SD21.1	30"	51.62				
IN108	NYLOPLAST	-	48"	51.37				
MH110	TYPE A MANHOLE	DER SD21.1	30"	51.48				
IN112	NYLOPLAST	-	48"	50.50				
IN114	E-INLET	DER SD16.0	48"	49.84				
MH116	TYPE A MANHOLE	DER SD21.1						
IN118	B-INLET	DER SD12.1						
IN120	B-INLET	DER SD12.1						
IN122	E-INLET	SD16.0						
MH124	TYPE A MANHOLE	DER SD21.1						
IN126	NYLOPLAST	-						
IN128	NYLOPLAST	-						
IN130	NYLOPLAST	-						
EW200	END-WALL	DER SD30.0						
MH202	TYPE A MANHOLE	DER SD21.1						
MH204	TYPE A MANHOLE	DER SD21.1						
MH206	TYPE A MANHOLE	DER SD21.1						
MH208	TYPE A MANHOLE	DER SD21.1						
MH210	TYPE A MANHOLE	DER SD21.1						
IN212	NYLOPLAST	-						
IN214	NYLOPLAST	-						
MH216	TYPE A MANHOLE	DER SD21.1						
IN218	NYLOPLAST	-						
MH220	TYPE A MANHOLE	DER SD21.1						
MH222	TYPE A MANHOLE	DER SD21.1						
IN224	NYLOPLAST	-						
MH226	TYPE A MANHOLE	DER SD21.1						
IN228	NYLOPLAST	-						
MH230	TYPE A MANHOLE	DER SD21.1						
IN232	NYLOPLAST	-						
MH234	TYPE A MANHOLE	DER SD21.1						
MH236	TYPE A MANHOLE	DER SD21.1						
IN238	NYLOPLAST	-						
MH240	TYPE A MANHOLE	DER SD21.1						
IN242	NYLOPLAST	-						
MH244	TYPE A MANHOLE	DER SD21.1						
MH246	TYPE A MANHOLE	DER SD21.1						
IN248	NYLOPLAST	-						
IN250	B-INLET	DER SD12.1						
IN252	NYLOPLAST	-						
IN254	NYLOPLAST	-						

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STORM DRAIN STRUCTURE AND PIPE SCHEDULES

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2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM
HORIZONTAL: NAD83
VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

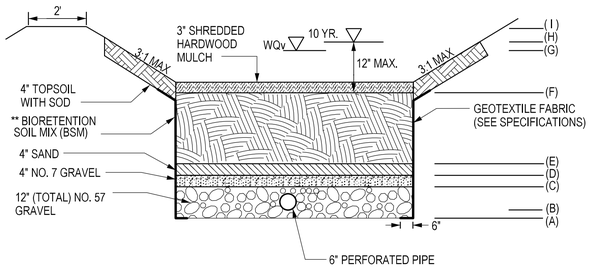
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = N.T.S

C-60
SHEET 14
OF 21

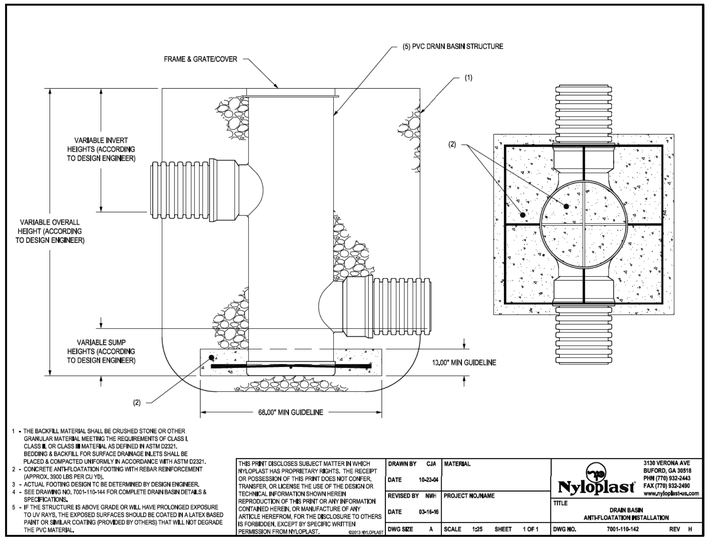
PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav14.sht Scale= 1.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:48 PM

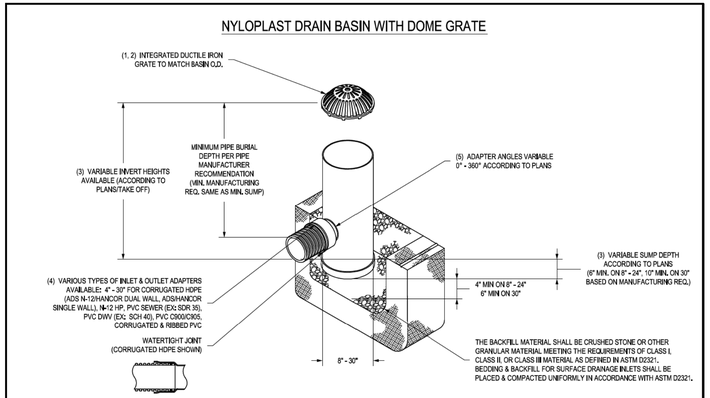


MICROBIORETENTION CROSS SECTION
NTS

MICRO/BIORETENTION SECTION									
DEVICE NUMBER	BOTTOM OF ESD FACILITY	UNDERDRAIN INVERT	BOTTOM OF PEA GRAVEL	BOTTOM OF SAND	BOTTOM OF BSM	TOP OF BSM	WQV/WEIR ELEV.	10-YR WSEL	TOP OF EMBANKMENT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)
1	79.53	79.78	80.03	80.37	80.70	82.70	57.50	57.71	58.00
As-Built									
2	77.53	77.78	78.03	78.37	78.70	81.00	57.50	57.68	58.00
As-Built									
3	-5.17	-4.92	-4.17	-3.83	-3.50				
As-Built									
4	-4.17	-3.92	-3.17	-2.83	-2.50				
As-Built									
5	-4.17	-3.92	-3.17	-2.83	-2.50				
As-Built									
6	-5.17	-4.92	-4.17	-3.83	-3.50				
As-Built									
7	-3.42	-3.17	-2.67	-2.33	-2.00				
As-Built									
8	-5.42	-5.17	-4.67	-4.33	-4.00				
As-Built									
9	-4.42	-4.17	-3.67	-3.33	-3.00				
As-Built									
10	-5.67	-5.42	-4.67	-4.33	-4.00				
As-Built									
11	-3.17	-2.92	-2.67	-2.33	-2.00				
As-Built									
12	-4.92	-4.67	-4.17	-3.83	-3.50				
As-Built									
13	-5.17	-4.92	-4.67	-4.33	-4.00				
As-Built									
14	-5.67	-5.42	-4.67	-4.33	-4.00				
As-Built									
15	-4.17	-3.92	-3.67	-3.33	-3.00				
As-Built									
16	-4.67	-4.42	-4.17	-3.83	-3.50				
As-Built									
17	-5.17	-4.92	-4.67	-4.33	-4.00				
As-Built									



NYLOPLAST DRAIN BASIN WITH DOME GRATE



"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, THAT THIS "AS-BUILT" TRULY REPRESENTS EXISTING FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, DIAMETERS, LINE AND GRADE, AND ELEVATIONS.

KYLE J. WALKER DATE:
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ESD DETAILS

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = NTS
SHEET C-61 15
OF 21
PROJECT NO. 1404-06-00

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REFERENCE GRID A B C D E F G H I J K L M N O

PRINCE GEORGE'S COUNTY GOVERNMENT
Department of Permitting, Inspections and Enforcement
(301) 883-5710

MICRO BIORETENTION/BIORETENTION CONSTRUCTION INSPECTION CHECKLIST

This checklist serves as a guide for permitee and DPIE Site/Road Inspector to review construction progress verify acceptance before acceptance of device.

Site/Project Name: _____ Date: _____

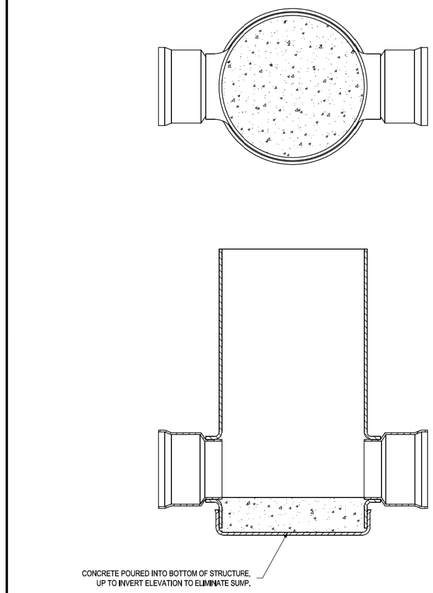
Field Engineer: _____ Permittee: _____

Permit No:_____ Structure Number: _____

DESCRIPTION OF STAGE	DPIE	PERMITTEE
Preconstruction Meeting: Inspection and approval of each practice is required at these points prior to proceeding with the next step of construction. The permitee is required to give DPIE Site/Road Inspector twenty-four (24) hours notice (DPIE telephone: 301-883-XXXX). The DPIE Site/Road Inspector may waive an inspection and allow the permitee per a prior written scheduled arrangement. Work completed without DPIE approval may result in the permitee having to remove and reconstruct the unapproved work. **Upon completion of the project, an As-Built must be submitted to DPIE.** Each of the steps listed below must be verified by either the DPE Site/Road Inspector and/or the Permitee on their assigns and their assign.		
1. Excavation for micro bioretention facility conforms to approved plans.		
2. Placement of stone backfill and underdrain distribution system, observation well and cleanout conforms to approved plans.		
3. Placement of sand, gravel, and soil filter media and installation of filter fabric conforms to approved plans.		
4. Connecting pipes, and/or grading conveyance to the facility constructed per the approved plans.		
5. Final inspection of grading mulch and permanent stabilization and landscape installation conforms to approved plans.		

Total area of Micro Bioretention facilities installed for this inspection:_____sf

- Required inspection by DPIE Site/Road Inspector.
- Permittee to supply Design Engineer with delivery tickets for all materials used in bioretention facility construction.
- A copy of this completed checklist must be submitted as part of the stormwater management as-built package.



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DRAWN BY	EBC	MATERIAL	
DATE	3-14-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-8-10		
DWG SIZE	A	SCALE 1:12	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN - 30 IN STRUCTURE WITH CONCRETE IN SUMP

DWG NO. 7001-110-152 REV D

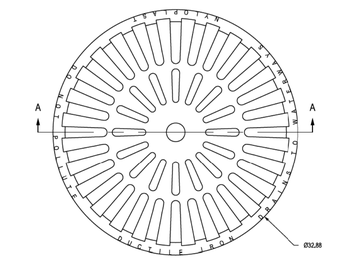
NOTE: PERFORATIONS MUST BE 3/8" IN DIAMETER AND MUST BE 4" ON CENTER, EVERY 90° AROUND THE PIPE.

PERFORATED 6" PVC (SCH 40) UNDERDRAIN PIPE (TYPICAL) DETAILS

NOT TO SCALE

3099CGD

APPROX. DRAIN AREA = 409.94 SQ IN
APPROX. WEIGHT WITH FRAME = 83.00 LBS



SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

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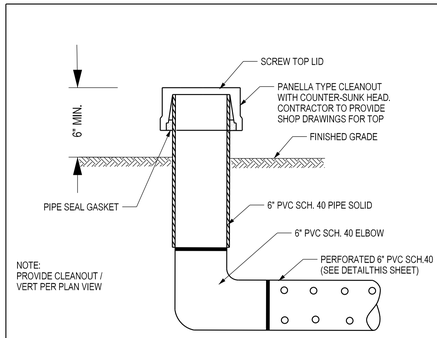
DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-8-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-10-11		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 30 IN DOME GRATE

DWG NO. 7001-110-223 REV D



CLEANOUT / VENT DETAIL
TYPICAL MICRO-BIORETENTION SECTION

NOT TO SCALE

DPIE # XXXXX-2018-00

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PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

ESD DETAILS

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4300 Forbes Boulevard, Suite 230
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P. 301.794.7555 F. 301.794.6556
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS TECHNICIAN: CHECKED:

MISS UTILITY NOTE
INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT
GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = N.T.S.
C-62
SHEET 16
OF 21
PROJECT NO.
1404-06-00

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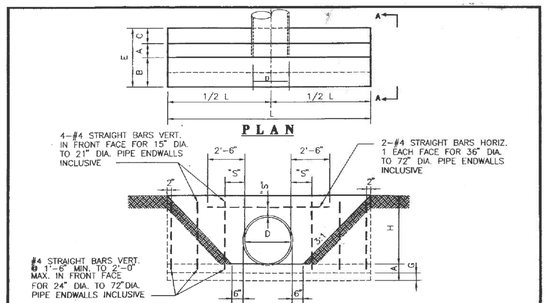


OPENING D INCHES	OPENING AREA SQ. FT.	DIMENSIONS A	B	C	E	F	G	H	FLAT SLOPE L	FLAT SLOPE S
15	1.23	8"	10"	6"	2'-1"	12"	2'-0"	2'-3"	15'-9"	11'-3"	4"
18	1.77	8"	10"	6"	2'-1"	12"	2'-0"	2'-6"	17'-6"	12'-6"	4"
21	2.40	9"	10"	6"	2'-1"	12"	2'-0"	2'-9"	19'-3"	13'-9"	4"
24	3.14	9"	14"	6"	2'-5"	12"	2'-0"	3'-0"	21'-0"	15'-0"	6"
27	3.98	9"	14"	6"	2'-5"	12"	2'-0"	3'-3"	22'-9"	16'-3"	6"
30	4.91	9"	14"	6"	2'-5"	12"	2'-0"	3'-6"	24'-6"	17'-6"	6"
33	5.94	9"	14"	6"	2'-5"	12"	3'-0"	3'-9"	26'-3"	18'-9"	6"
36	7.07	12"	16"	10"	3'-2"	12"	3'-0"	4'-0"	28'-0"	20'-0"	8"
42	9.62	12"	16"	10"	3'-2"	12"	3'-0"	4'-6"	31'-6"	22'-6"	8"
48	12.57	12"	16"	10"	3'-2"	12"	3'-0"	5'-0"	35'-0"	25'-0"	8"
54	15.90	12"	20"	12"	3'-8"	12"	3'-0"	5'-6"	38'-6"	27'-6"	8"
60	19.64	12"	20"	12"	3'-8"	12"	3'-0"	6'-0"	42'-0"	30'-0"	8"
72	28.27	12"	20"	12"	3'-8"	12"	3'-0"	7'-0"	49'-0"	35'-0"	8"

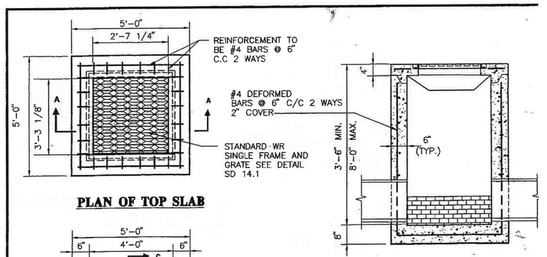
QUANTITIES IN THIS TABLE TO BE USED FOR ESTIMATING ONLY

NOTES:
1. UNLESS OTHERWISE SPECIFIED, THE SIDE SLOPE 2:1 MAXIMUM TO BOTTOM OF THE OUTFALL CHANNEL. KEEP 6' AWAY FROM STORM DRAIN PIPE.
2. fc' = 5,000 psi @ 28 DAYS WITH AIR ENTRAINED FOR PRECAST CONCRETE. fc' = 4,000 psi WITH AIR ENTRAINED FOR CAST IN PLACE.
3. PROVIDE 6" THICK OF NO. 57 AGGREGATE BEDDING ON FIRM SUBGRADE.
4. 2" MINIMUM CONCRETE CLEARANCE.

DEPARTMENT OF ENVIRONMENTAL RESOURCES
APPROVED BY: Stan E. Wideman, P.E. Assoc. Director DATE: 3/16/01

REVISION
JAN. 2001

STORM DRAIN ENDWALL — SD 30.0

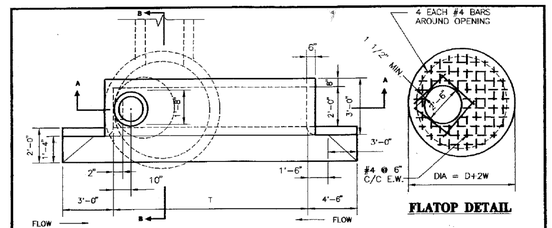


NOTES:
1. THE CONSTRUCTION OF THE STRUCTURE MUST BE IN ACCORDANCE WITH PRINCE GEORGE'S COUNTY, DEPARTMENT OF ENVIRONMENTAL RESOURCES, STORMWATER STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60.
3. PROVIDE 8 ADDITIONAL #4 BARS REINFORCEMENT FOR PIPE OPENINGS AND SLOTS.
4. fc' = 5,000 psi FOR PRECAST @ 28 DAYS WITH AIR ENTRAINED.
5. FOR TRAFFIC AREA, TOP SLAB AND FRAME AND COVER MUST BEAR HS20 LOADING.

DEPARTMENT OF ENVIRONMENTAL RESOURCES
APPROVED BY: Stan E. Wideman, P.E. Assoc. Director DATE: 3/16/01

REVISION
JAN. 2001

STORM DRAIN TYPE "E" INLET — SD 16.0



NOTES:
1. CONCRETE STRENGTH SHALL BE fc'= 5,000 psi @ 28 DAYS WITH AIR ENTRAINED.
2. ALL REINFORCEMENT STEEL TO BE ASTM A615, GRADE 60.
3. ACCESS OPENING TO BE OVER STEP.
4. FOR H1, H2, B, G, W RELATED TO BASE HEIGHT, RISER UNIT HEIGHT, BASE SLAB THICKNESS, WALL THICKNESS, REFER TO A TABLE ON SD 12.2.
5. PROVIDE BENCH UP TO CROWN OF PIPE.
6. PROVIDE "CHESAPEAKE BAY DRAINAGE, DON'T DUMP" ON FRONT OF TOP SLAB.
7. FOR REINFORCEMENT OF TROUGH AND WALLS, REFER TO A TABLE ON SD 12.2.

DEPARTMENT OF ENVIRONMENTAL RESOURCES
APPROVED BY: Stan E. Wideman, P.E. Assoc. Director DATE: 3/16/01

REVISION
JAN. 2001

STORM DRAIN TYPE "B" PRECAST INLET — SD 12.1

"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, THAT THIS "AS-BUILT" TRULY REPRESENTS EXISTING FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, DIAMETERS, LINE AND GRADE, AND ELEVATIONS.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ , EXPIRATION DATE: _____ .

SWM AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY WAS CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND MEETS OR EXCEEDS THE REQUIREMENTS OF THE NATURAL RESOURCES CONSERVATION SERVICE - MARYLAND CONSERVATION PRACTICE STANDARD FOR PONDS (MD-378) AND THE APPROVED POND PLANS AND SPECIFICATIONS AND THE VEGETATIVE COVER IS AT LEAST 95%.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ , EXPIRATION DATE: _____ .

DPIE # XXXXX-2018-00

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

ESD DETAILS

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Environmental Sciences

4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS | TECHNICIAN: | CHECKED:

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = N.T.S.

C-63
SHEET 17 OF 21

PROJECT NO.
1404-06-00

ESD FACILITIES SPECIFICATIONS

THE SPECIFICATIONS FOR THIS PROJECT ARE BASED ON PRINCE GEORGE'S COUNTY, DEPARTMENT OF PUBLIC WORKS "SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES, SECTION II, TECHNICAL SPECIFICATIONS": NOT ALL OF THE ITEMS BELOW ARE APPLICABLE TO A SPECIFIC DEVICE, BUT WILL BE USED FOR AS NEEDED AS REQUIRED FOR THE DEVICE TO BE INSTALLED.

THE PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANS -PORTATION (THE DEPARTMENT) HAS ADOPTED PART III, TECHNICAL REQUIRE -MENTS OF THE MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT) STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JANUARY 2001, AS THE DEPARTMENT'S SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES (SPECIFICATIONS AND STANDARDS).

THE DEPARTMENT ALSO INCORPORATES BY REFERENCE ANY FUTURE SUPPLE -MENTS, REVISIONS, OR OTHER AMENDMENTS TO PART III OF THE MSHA STANDARD SPECIFICATIONS ISSUED AFTER JANUARY 2001. SECTION II OF THE DEPARTMENT'S SPECIFICATIONS AND STANDARDS INCLUDES MINOR MODIFICA -TIONS TO THE MSHA STANDARD SPECIFICATIONS BY DELETING, ADDING, OR REVISING CERTAIN PROVISIONS TO MAKE THEM APPLICABLE FOR USE WITHIN PRINCE GEORGE'S COUNTY.

THE ITEMS BELOW REFER TO THE MARYLAND DEPARTMENT OF TRANSPORT -ATION STATE HIGHWAY ADMINISTRATION STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 (MDOT) FOR ALL SPECIFICATIONS FOR THE WORK. THE MDOT SPECIFICATIONS REFERENCED BELOW ARE OFFERED FOR THE CONVENIENCE OF THE CONTRACTOR AND THE ENTIRE MDOT SPECIFICATION SHALL APPLY TO THE WORK. REFER TO THE DESIGN PLANS FOR ALL GRAPHIC DETAIL AND NOTATIONS RELATED TO THE BELOW ITEMS.

PRE-CONSTRUCTION MEETING:

CONTACT COUNTY INSPECTOR AT 301- AND SET UP PRECONSTRUCTION MEETING AT LEAST 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION.

MOBILIZATION:

CONSTRUCTION PREPARATORY OPERATIONS THAT INCLUDE THE MOVE -MENT OF PERSONNEL AND EQUIPMENT TO THE PROJECT SITE IN ACCORDANCE WITH MDOT SECTION 108.

TIMING:

AN ESD FACILITY SHALL NOT BE PLACED IN SERVICE UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND THE INSTALL -ATION APPROVED BY THE COUNTY INSPECTOR. PROVISIONS FOR SEDIMENT CONTROL SHALL BE IN PLACE AS SPECIFIED WITHIN THE SEDIMENT CONTROL PLAN. DELIVERY OF MATERIALS SUCH AS SOIL MEDIA, PLANTS, GRAVEL, GEOTEXTILE FABRIC, AND UNDERDRAINS MUST BE COORDINATED TO AVOID STOCKPILING AND CONTAMINATION PROBLEMS. SOIL MEDIA SHOULD NOT BE DELIVERED UNTIL THE ESD FACILITY LOCATION HAS BEEN EXCAVATED OR GRADED TO THE DESIGN ELEVATIONS WITH THE GEOTEXTILE FABRIC AND UNDERDRAIN SYSTEM IN PLACE. PLANT MATERIALS SHOULD NOT BE DELIVERED UNTIL AFTER THE SOIL MEDIA HAS SETTLED AND BEEN TRIMMED TO THE PROPER GRADE ELEVATION. PRIOR TO THE INSTALLATION OF BIORETENTION SOIL MIX, UNDERDRAIN SYSTEM, SAND, GRAVEL, GEOTEXTILE FABRIC AND PLANTING MATERIAL, THE COUNTY INSPECTOR MUST APPROVE THAT THE EXCAVATION HAS BEEN PREPARED PROPERLY.

MAINTENANCE OF TRAFFIC:

MDOT SECTION 104.00: MAINTAIN TRAFFIC PATTERNS IN THE PARKING LOT WITH TRAFFIC CONES AS NECESSARY, IN ACCORDANCE WITH THIS SECTION, AND AS DIRECTED BY THE COUNTY INSPECTOR.

SALVAGED TOPSOIL AND SUBSOIL:

SALVAGE, STORE, OR FURNISH, AND PLACE TOPSOIL AND SUBSOIL AS NEEDED TO COMPLETE THE WORK IN ACCORDANCE WITH MDOT SECTION 701.

SAFETY FENCE:

AS NECESSARY FURNISH, INSTALL, AND MAINTAIN NEW OR LIKE NEW TEMPORARY ORANGE MESH CONSTRUCTION FENCE ALONG THE OUTER LIMITS OF THE ESD DEVICE. THIS FENCE IS NOT TO BE USED AS A SAFETY BARRIER AND SHALL BE MAINTAINED AT THE END OF EACH WORK DAY TO ENSURE ALL ACTIVE CONSTRUCTION AREAS ARE COMPLETELY SURROUNDED BY THE FENCE. ALL WORK SHALL BE IN ACCORDANCE WITH MDOT SECTION 104.20.

GEOTECHNICAL COMPACTION & MATERIALS TESTING:

PROVIDE GEOTECHNICAL ENGINEERING SUPPORT AS RELATED TO THE EXCAVATION AND INSTALLATION OF THE ESD.

CLEARING AND GRUBBING:

REMOVAL AND DISPOSAL OF TREES, FALLEN TIMBER AND ROTTEN WOOD, BRUSH, SHRUBS, VEGETATION RUBBISH, FENCES, AND STRUCTURES WITHIN THE ESD DEVICE FOOTPRINT FOR REMOVAL AND DISPOSAL. UNLESS OTHERWISE SPECIFIED, CLEARING OUTSIDE THE LOD INCLUDES THE REMOVAL OF RUBBISH ONLY.ALL WORK SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND MDOT SECTION 101.

SALVAGED PLANTS:

SALVAGE ANY PLANT MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE IMPACTED BY THE CONSTRUCTION. LANDSCAPE MATERIAL SHALL BE APPROPRIATELY CARED FOR DURING CONSTRUCTION. DISTRESSED OR DAMAGED PLANTS WITHIN THE 1-YEAR WARRANTY PERIOD SHALL BE RE -PLACED WITH SIMILAR SIZE AND TYPE AT THE SUBCONTRACTOR'S EXPENSE. ALL WORK SHALL BE IN ACCORDANCE WITH MDOT SECTION 710.

DEMOLITION:

SAW CUT AND REMOVE PAVEMENT AND BASE MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND MDOT SECTION 206.

HAULING:

REMOVAL AND DISPOSAL OF ANY EXCESS MATERIAL RESULTING FROM DEMOLITION. ALL MATERIAL SHALL BE DISPOSED OF ONSITE OR AT A PROPERLY PERMITTED SITE.

SEDIMENT CONTROL:

INSTALL AS NECESSARY, MAINTAIN FOR THE DURATION OF CONSTRUC- TION, REMOVE AND REPLACE IF NEEDED, AND FINAL REMOVAL UPON APPROVAL OF COUNTY INSPECTOR OF SILT FENCE IN ACCORDANCE WITH MDOT SECTION 308 AND APPROVED ESC PLAN.

TREE FELLING:

REMOVAL OF TREES (SHRUBS AND LANDCAPING REMAIN) IF REQUIRED AND AT THE DIRECTION OF A LANDSCAPE ARCHITECT. ALL WORK SHALL BE IN ACCORDANCE WITH MDOT SECTION 714. STUMPS SHALL BE REMOVED OR GROUND. ALL MATERIAL SHALL BE DISPOSED OF APPROPRIATELY OFFSITE.

BRANCH PRUNING OF EXISTING TREES:

PRUNE EXISTING TREE BRANCHES WITHIN OR ADJACENT TO THE WORK AREA THAT THE CONTRACTOR BELIEVES MAY BE IMPACTED BY THE CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL APPROVE ANY PRUNING PRIOR TO WORK OCCURRING. ALL WORK SHALL BE IN ACCOR -DANCE WITH MDOT SECTION 712.

ROOT PRUNING OF EXISTING TREES:

PRUNE EXISTING TREE ROOTS WITHIN OR ADJACENT TO THE WORK AREA THAT THE SUBCONTRACTOR EXPOSES OR BELIEVES MAY BE IMPACTED BY THE CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL APPROVE ANY PRUNING PRIOR TO WORK OCCURRING. ALL WORK SHALL BE IN ACCORDANCE WITH MDOT SECTION 712.

EXCAVATION:

EXCAVATE AND GRADE TO THE LINES AND GRADES SHOWN ON THE PLAN AND IN ACCORDANCE WITH MDOT SECTIONS 201,203, 204, 301, 302, 303, AS APPLICABLE. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE FACILITY SIDES TO AVOID CONTAMINATION AND POSSIBLE SIDEWALL INSTABILITY.

LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE SIDEWALLS OF THE TRENCH USING ROOT PRUNING TECHNIQUES AND THE SIDE -WALLS AND BOTTOM ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.

HAULING:

REMOVAL AND DISPOSAL OF ANY EXCESS MATERIAL RESULTING FROM EXCAVATION OPERATIONS. ALL MATERIAL SHALL BE DISPOSED OF AT A PROPERLY PERMITTED SITE. IF OFFSITE SUBMITTAL OF THE LOCATION AND A COPY OF THE PERMIT SHALL BE PROVIDED TO COUNTY INSPECTOR PRIOR TO ANY REMOVAL OF MATERIALS.

FILTER CLOTH:

FURNISH AND INSTALL FILTER CLOTH IN ACCORDANCE WITH THE DRAW -INGS AND MDOT SECTION 921.09.

NO 2 OR 3 STONE:

FURNISH AND INSTALL NUMBER 2 OR 3 AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 901, TABLE 901A.

NO 57 STONE:

FURNISH AND INSTALL NUMBER 57 AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 901, TABLE 901A.

SAND:

FURNISH AND INSTALL SAND (FINE AGGREGATE ⌖ PORTLAND CEMENT CONCRETE) AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 901, TABLE 901A.

UNDERDRAIN:

FURNISH AND INSTALL 4" OR 6" STORM DRAIN SYSTEM WITH CLEANOUTS AND CONNECTIONS IN ACCORDANCE WITH THE DRAWINGS AND MDOT SECTIONS 302, 303, 305, 306.

PEA GRAVEL NO. 7:

FURNISH AND INSTALL PEA GRAVEL AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 901, TABLE 901A.

BIORETENTION SOIL MIX:

FURNISH AND INSTALL BIORETENTION SOIL MIX (BSM) AS SPECIFIED ON THE DRAWINGS. LIMITS OF BSM IS SHOWN AS PATTERNED AREA ON DRAW -INGS. BSM SHALL BE IN ACCORDANCE WITH MDOT SECTION 920.01.05.

1. AFTER SCARIFYING THE BOTTOM AREA OF THE PROPOSED FACILITY, PLACE SOIL AT 8"-12" LIFTS. LIFTS ARE NOT TO BE COMPACTED.
2. AVOID OVER-COMPACTION BY ALLOWING TIME FOR NATURAL COMPACTION AND SETTLEMENT. ADDITIONAL MANUAL SOIL COMPACTION MUST NOT BE PERFORMED. RAKE SOIL MATERIAL AS NEEDED TO LEVEL OUT. OVERFILL ABOVE THE PROPOSED SURFACE INVERT TO ACCOMMODATE UP TO 20% NATURAL SETTLEMENT TO PROPER GRADE.
3. PRESOAKING MAY BE PERFORMED TO HASTEN NATURAL COMPACTION, PREFERABLY BY RAIN EVENTS.
4. CONSTRUCTION ACTIVITIES MUST BE PLANNED SUCH THAT EQUIPMENT DOES NOT CROSS THE ESD DEVICE AREA FOLLOWING SOIL INSTALLATION.
5. CONTRACTOR SHALL ARRANGE FOR AS-BUILT SURVEY PRIOR TO LANDSCAPE INSTALLATION AND FINAL MULCHING OF AREA.

SHREDDED HARDWOOD MULCH:

FURNISH AND INSTALL SHREDDED HARDWOOD MULCH AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 920.04.

OUTLET PROTECTION:

CONSTRUCT OUTLET PROTECTION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 312.

OBSERVATION WELL:

FURNISH AND INSTALL OBSERVATION WELL IN ACCORDANCE WITH THE DRAWINGS AND APPLICABLE PORTIONS OF MDOT SECTION 905.

SOIL STABILIZATION MATTING:

FURNISH AND INSTALL SOIL STABILIZATION MATTING AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MDOT SECTION 709.

TEMPORARY SEED AND MULCH:

APPLY TEMPORARY SEED AND TEMPORARY MUCH AS NEEDED IN ACCORDANCE WITH THE DRAWINGS PER MDOT SECTION 704.

PERMANENT STABILIZATION:

STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE DRAWINGS AND MDOT SECTION 705.

LANDSCAPING:

FURNISH AND INSTALL LANDSCAPE MATERIAL AS SHOWN ON THE LANDSCAPE PLAN AND PLANT LIST AND IN ACCORDANCE WITH MDOT SECTION 710.

MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING PLANTS DURING THE PLANT ESTABLISHMENT PHASE. THE PERIOD OF MAINTENANCE SHALL BE ONE YEAR.

Table B.4.1 Materials Specifications for Micro-Bioretention, Rain Gardens & Landscape Infiltration.

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 – 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with ¼-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; f'_c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required. 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) *not using previously approved State or local standards* requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89, vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (**AASHTO**) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

STORMWATER MAINTENANCE SCHEDULE
ENVIRONMENTAL SENSITIVE DESIGN

Dry Wells	Annually		Clean associated drainage pipes, gutters, downspouts, screens, and other components draining to practice.
			If water ponds for more than 48 hours or more than 6 inches of sediment has accumulated, excavate and replace the gravel media.
Micro-Bioretention	Seasonally (and after a major storm)		Irrigate during prolonged dry periods.
		If specific plants are not surviving, replace with more appropriate species.	Remove any dead or dying vegetation and revegetate.
			Prune vegetation occasionally.
			Remove accumulated sediment from surface of filter bed when accumulation exceeds one inch.
			If water ponds for more than 48 hours, remove and replace the top few inches of filter media.
			Replace mulch annually where practice treats areas with high concentrations of heavy metals. Otherwise, replace top 2-3 inches as necessary.
Rain Gardens	Seasonally (and after a major storm)		Irrigate during prolonged dry periods.
		If specific plants are not surviving, replace with more appropriate species.	Remove any dead or dying vegetation and revegetate.
			Prune vegetation occasionally.
			Remove accumulated sediment from surface of bed as needed.
			If water ponds for more than 48 hours, remove and replace the top few inches of planting soil.

"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, THAT THIS "AS-BUILT" TRULY REPRESENTS EXISTING FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, DIAMETERS, LINE AND GRADE, AND ELEVATIONS.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____, EXPIRATION DATE: _____ .

SWM AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY WAS CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND MEETS OR EXCEEDS THE REQUIREMENTS OF THE NATURAL RESOURCES CONSERVATION SERVICE - MARYLAND CONSERVATION PRACTICE STANDARD FOR PONDS (MD-378) AND THE APPROVED POND PLANS AND SPECIFICATIONS AND THE VEGETATIVE COVER IS AT LEAST 95%.

KYLE J. WALKER DATE:
MD. REG. P.E. NO. 33901

PROFESSIONAL CERTIFICATION

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DPIE # XXXXX-2018-00

PROFESSIONAL CERTIFICATION
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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

ESD NOTES AND SPECIFICATIONS

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Lanham, MD 20706
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www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS TECHNICIAN: CHECKED:

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____
TAX MAP: 100, B4 ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = N.T.S.
C-64
SHEET 19
OF 21
PROJECT NO. 1404-06-00

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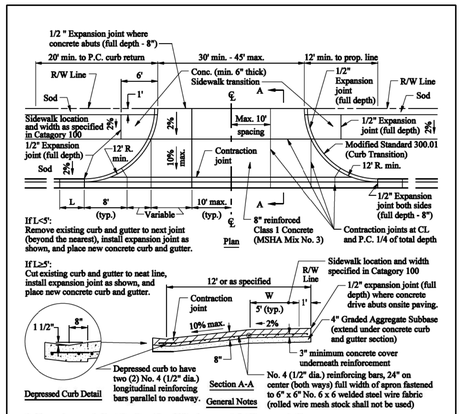


General Notes

1. New entrances shall not be closer than 12' to the nearest abutting property line.
2. All bikeway/sidewalk ramps shall be constructed in compliance with the Federal accessibility guidelines of the Americans with Disabilities Act.
3. Entrance may be constructed perpendicular to, or at an angle (60° min.), measured from the centerline of roadway paving to property line.
4. If commercial driveway depth exceeds 14', contraction joints are not to extend beyond 20'.
5. No commercial driveway apron may be constructed within, or partially within any intersection curb fillet.
6. Expansion joints will be required where driveway abuts the curb and gutter. All contraction joints are to be constructed to a depth equal to 1/4 of the total depth of concrete entrance.
7. Driveway paving and curb poured monolithically.

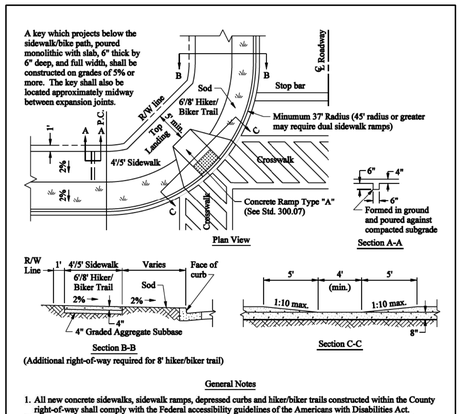
APPROVED:

DIRECTOR — DATE

REVISION DATE:	APPROVED BY:

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
Prince George's County, MD

Commercial Driveway Entrance (Ramped to Sidewalk Elevations) — STD. 200.03



(Additional right-of-way required for 8' hiker/biker trail)

General Notes

1. All new concrete sidewalks, sidewalk ramps, depressed curbs and hiker/biker trails constructed within the County right-of-way shall comply with the Federal accessibility guidelines of the Americans with Disabilities Act.
2. All new sidewalks and hiker/biker trails abutting sidewalk ramps within fillet areas, having a fixed obstruction not to include utility poles, shall be adjusted to provide a minimum clearance of 36".
3. All contraction joints in concrete sidewalks shall be constructed at 4' intervals and 6' or 8' intervals for hiker/biker trails unless otherwise approved by the Department. The contraction joints are to be constructed to a depth equal to 1/4 of the total depth of the sidewalk/hiker/biker trail. Premolded 1/2" thick expansion joints shall also be constructed at 100' intervals, between the curb and sidewalk/hiker/biker trail, at sidewalk ramps, driveways, leadwalks, poles, or other permanent structures.
4. Provide 4" thick graded aggregate base material under all concrete sidewalk and hiker/biker trails.
5. All concrete shall be Class I (MSHA Mix No. 3), air entrained, unless otherwise approved by the Department. The surface shall be broom finished.

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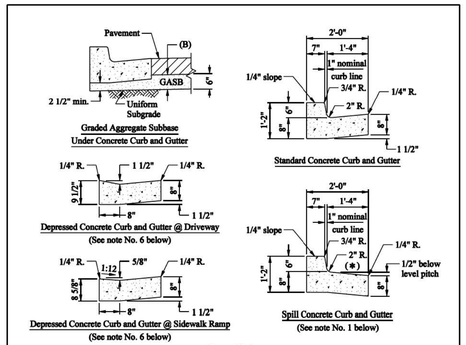
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
Prince George's County, MD

Concrete Sidewalk and Ramp Location — STD. 300.05



General Notes

1. Use of spill concrete curb and gutter requires special Departmental approval, except for "Urban Major Collector Road" design.
2. The slope (*) of a spill concrete curb and gutter pan shall be equal to the cross slope of roadway paving.
3. Install expansion joints using 1/2" preformed non-extruding joint filler, at 100' intervals, at the beginning and end of curves with less than 100' radii, at structures, and at midpoints of curb returns.
4. All construction joints shall be located at 10' intervals. The contraction joints shall be constructed to a depth equal to 1/4 of the depth of the thickness of the concrete.
5. All concrete shall be Class I (MSHA Mix No. 3) air-entrained, unless otherwise approved by the Department. The surface shall be brush finished.
6. The depressed concrete curb and gutter sections shall be used at all driveway aprons and sidewalk ramps.
7. Preformed joint fillers shall conform to M 153. The bituminous fiber type joint shall conform to M 213, with the bitumen content determined using T 164.
8. Granite curb and gutter may be required under certain conditions.
9. Provide uniform subgrade under entire roadway section.
10. All new construction within the County right-of-way shall comply with Federal accessibility guidelines of the Americans with Disabilities Act and Fair Housing regulations.

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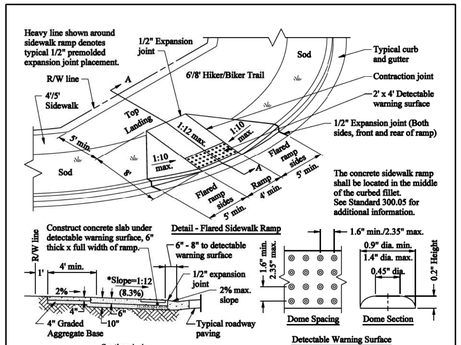
Prince George's County, MD

Concrete Curb and Gutter — STD. 300.01



1. All new concrete sidewalk ramps and depressed curbs constructed within the County right-of-way shall comply with the Federal accessibility guidelines of the Americans with Disabilities Act. See Standard 300.01 for depressed curb requirements.
2. All sidewalk ramps and their approaches shall be designed and constructed so that water will not accumulate on walking surfaces.
3. The sidewalk ramp shall be constructed with the least possible running slope, not to exceed 1:12.
4. All concrete shall be Class I (MSHA Mix No. 3) air-entrained unless otherwise approved by the Department. The surface shall be broom finished.
5. Provide 4" thick graded aggregate base material under all concrete sidewalk and sidewalk ramps.
6. Detectable warning surface shall be 1" thick (hollow tile) diamond-hard vitrified polymer material, embedded into concrete with truncated dome pattern as specified above, and shall contrast visually with the adjacent surface (either dark-on-light or light-on-dark.) Color requirements: Use brick red panel with brick crosswalk and dark gray panel at all other locations.
7. Detectable warning surface shall be installed 6 to 8 inches behind the curb line, extend two feet in the direction of travel over the full width of the ramp, and shall be embedded so as to be flush with the surrounding surface.

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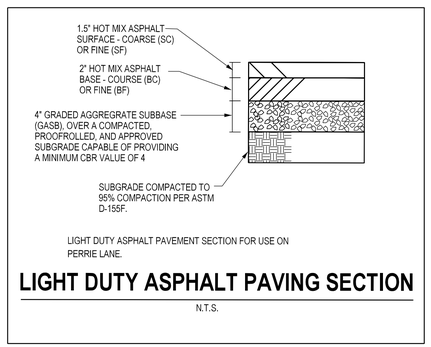
Prince George's County, MD

Concrete Sidewalk Ramp Type "A" — STD. 300.07

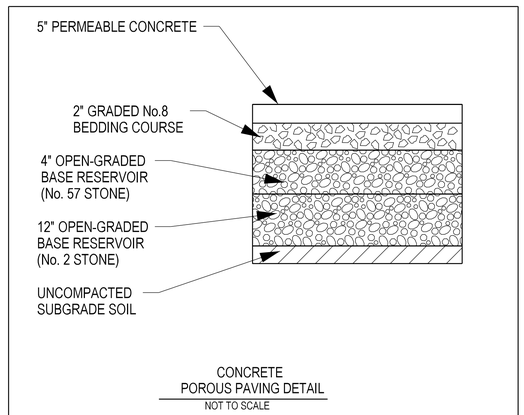


LIGHT DUTY ASPHALT PAVEMENT SECTION FOR USE ON PERRIE LANE.

LIGHT DUTY ASPHALT PAVING SECTION

N.T.S.

PERRIE LANE
PAVEMENT SECTION



CONCRETE
POROUS PAVING DETAIL

NOT TO SCALE

NOTE: POROUS PAVEMENT INSTALLATION SHALL BE CONDUCTED IN IN A MANNER WHICH MINIMIZES SUBGRADE COMPACTION. SUBGRADE SOIL SHALL NOT BE COMPACTED.

DPIE # XXXXX-2018-00

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MAP ____ GRID ____

TAX MAP	ZONING CATEGORY:
100, B4	R-A
WSSC 200' SHEET	
208 SE 09/10 209 SE 09/10	
SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

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LICENSE NO. 33901 **EXPIRATION DATE:** 06/06/2020

SITE DETAILS

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

ONE INCH
1" = N.T.S.
C-65
SHEET 20
OF 21
PROJECT NO. 1404-06-00

LANDSCAPE SPECIFICATIONS

A. MATERIALS

1. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE, AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. THEY SHALL HAVE BEEN ROOT PRUNED, PREFERABLY WITHIN THE LAST YEAR.

   THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, PEST, EGGS OR LARVAE, AND SHALL HAVE A HEALTHY DEVELOPED ROOT SYSTEM.

   PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH A DAMAGED OR CROOKED LEADER OR MULTIPLE LEADERS, ABRASIONS ON THE BARK, SUNSCALED, DISFIGURING KNOTS OR FRESH CUTS OVER 1 1/2 " WILL BE REJECTED.

   NO CHANGE IN QUANTITY, SIZE, KIND OR QUALITY OF PLANT SPECIFIED WILL BE PERMITTED WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.

2. TOPSOIL SHALL BE FERTILE, FRIABLE AND TYPICAL OF THE LOCALITY; IT SHALL BE FREE OF STONES, LUMPS, PLANTS, ROOTS, STICKS AND SHALL NOT BE DELIVERED IN A FROZEN OR MUDDY CONDITION.

3. PLANTING SOIL (BACKFILL MIX) SHALL BE FIVE-PARTS TOPSOIL AND ONE-PART WET LOOSE PEAT MOSS.

4. STAKING MATERIALS: GUYS WIRE SHALL BE PLIABLE #12 GAUGE GALVANIZED TWISTED TWO-STRAND WIRE. HOSE SHALL BE A SUITABLE LENGTH OF TWO-PLY RUBBER HOSE 3/4 INCH DIAMETER, STAKES SHALL CONFORM TO THE DETAIL ON THIS SHEET.

5. WRAPPING MATERIAL SHALL BE A STANDARD MANUFACTURED TREE WRAPPING PAPER WITH CRINKLED SURFACE AND FASTENED BY AN APPROVED METHOD.

B. APPLICABLE SPECIFICATIONS AND STANDARDS

1. "STANDARD PLANT NAMES," LATEST EDITION AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.

2. "AMERICAN STANDARD OF NURSERY STOCK," LATEST EDITION, AMERICAN ASSOCIATION OF NURSERYMAN.

C. DIGGING AND HANDLING OF PLANT MATERIALS

1. IMMEDIATELY BEFORE DIGGING, SPRAY ALL EVERGREEN OR DECIDUOUS PLANT MATERIAL IN FULL LEAF WITH ANTI-DESICCANT, APPLYING AN ADEQUATE FILM OVER TRUNKS, BRANCHES, TWIGS AND/OR FOLIAGE.

2. DIG BALLED AND BURLAPPED (B&B) PLANTS WITH FIRM NATURAL BALLS OF EARTH, OF A DIAMETER NOT LESS THAN THAT RECOMMENDED BY AMERICAN STANDARD FOR NURSERY STOCK, AND OF SUFFICIENT DEPTH TO INCLUDE THE FIBROUS AND FEEDING ROOTS. PLANTS MOVED WITH A BALL WILL NOT BE EXCEPTED IF THE BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATIONS.

D. EXCAVATING OF PLANTING AREA

1. STAKE OUT ON THE GROUND LOCATIONS FOR PLANTS AND OUTLINES OF AREA TO BE PLANTED, AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATION IS BEGUN. LANDSCAPED AREAS TO BE THOROUGHLY WEEDED PRIOR TO PLANTING OPERATIONS.

E. PLANTING OPERATIONS

1. SET PLANTS AT SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. USE PLANTING SOIL TO BACKFILL APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE INSTALLING REMAINDER OF THE PLANTING SOIL TO TOP OF PITS, ELIMINATING ALL AIR POCKETS.

2. SET PLANTING PLUMB AND BRACE RIGIDLY IN POSITION UNTIL THE PLANTING SOIL HAS BEEN STAMPED SOLIDLY AROUND THE BALL AND ROOTS. CUT ROPES OR STRINGS FROM THE TOP OF BALL AFTER PLANT HAS BEEN SET. LEAVE BURLAP OR CLOTH WRAPPING INTACT AROUND BALLS. TURN UNDER AND BURY PORTIONS OF BURLAP AT TOP OF BALL.

3. PROTECT PLANTS AT ALL TIMES FROM SUN OR DRYING WINDS. PLANTS THAT CAN NOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE KEPT IN THE SHADE, WELL PROTECTED WITH SOIL, PEAT MOSS OR OTHER ACCEPTABLE MATERIAL AND SHALL BE KEPT WELL WATERED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN THREE DAYS AFTER DELIVERY.

4. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL ONLY.

5. MULCH ALL PITS AND BEDS WITH A TWO INCH LAYER OF BARK, MULCH IMMEDIATELY AFTER PLANTING AND WORK INTO THE TOP THREE INCHES OF THE PLANTING SOIL. FORM A 3" EARTH SAUCER AROUND EACH PLANT. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. ADD ADDITIONAL MULCH.

F. STAKING, WRAPPING AND PRUNING

1. STAKING SHALL BE COMPLETED IMMEDIATELY AFTER PLANTING. PLANTS SHALL STAND PLUMB AFTER STAKING. STAKES AND GUY WIRE SHALL BE REMOVED AT THE END OF THE GUARANTEE PERIOD AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

2. WRAP DECIDUOUS TREE TRUNKS STARTING AT THE BASE OF THE TREE UP TO THE SECOND BRANCH. REMOVE WRAPPING AT THE END OF THE GUARANTEE PERIOD.

3. PRUNE PLANTS AT THE TIME OF PLANTING AS DIRECTED BY THE LANDSCAPE ARCHITECT TO REMOVE 1/5 OR 1/3 OF THE FOLIAGE. REMOVE ALL DEAD WOOD, SUCKERS OR BROKEN BRANCHES AND PRESERVE THE NATURAL CHARACTER OF THE PLANT.

G. GUARANTEE

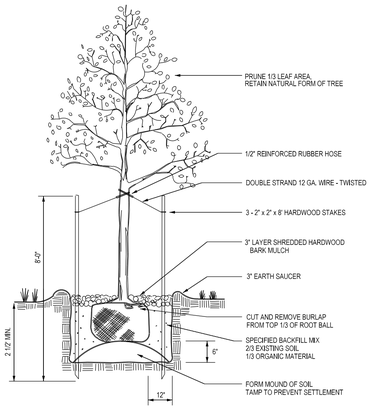
1. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A HEALTHY AND VIGOROUS CONDITION AT THE BEGINNING OF THE SECOND GROWING SEASON FOLLOWING ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

H. TREE PRESERVATION

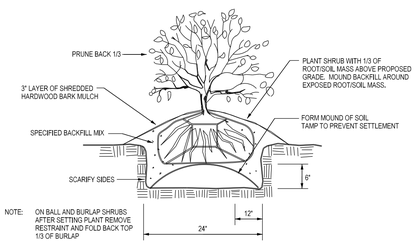
1. SNOW FENCING SHALL BE ERECTED AROUND ALL AREAS WHERE EXISTING VEGETATION IS TO BE PRESERVED.

2. INDIVIDUAL TREES AND GROUPS OF TREES SHALL BE PROTECTED BY FENCING AROUND A PERIMETER OF THEIR BRANCHES USING STANDARD, 48" HIGH SNOW FENCE SECURELY MOUNTED TO STANDARD STEEL POSTS SET NOT MORE THAN 6' APART.

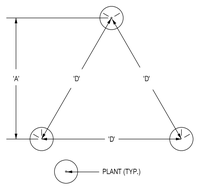
3. FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.



1 **TREE PLANTING DETAIL**
NOT TO SCALE

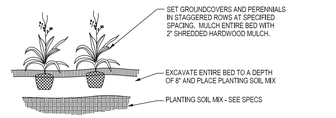


2 **BALL AND BURLAP SHRUB PLANTING DETAIL**
NOT TO SCALE



NOTE:
GROUNDCOVERS AND PERENNIALS TO BE INSTALLED WITH TRIANGULAR SPACING

PLANT SPACING 'D'	ROW 'A'
8" O.C.	6.93" O.C.
10" O.C.	8.66" O.C.
12" O.C.	10.4" O.C.
18" O.C.	15.6" O.C.
24" O.C.	20.8" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.



3 **HERBACEOUS, PERENNIAL & ORNAMENTAL GRASS PLANTING DETAIL**
NOT TO SCALE

DPIE # XXXXX-2018-00

PROFESSIONAL CERTIFICATION
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LICENSE NO. _____ EXPIRATION DATE: _____

ESD LANDSCAPE DETAILS

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: MONTH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: NDS | TECHNICIAN: | CHECKED:

MISS UTILITY NOTE
INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT
GALILEE BAPTIST CHURCH
2101 SHADYSIDE AVE
SUITLAND, MD 20746

MAP _____ GRID _____
TAX MAP: 100, B4 | ZONING CATEGORY: R-A
WSSC 200' SHEET: 208 SE 09/10, 209 SE 09/10
SITE DATUM: HORIZONTAL: NAD83 | VERTICAL: NGVD29

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = N.T.S.
SHEET 21 OF 21
C-66
PROJECT NO. 1404-06-00

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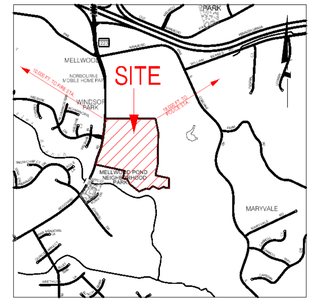
(M) SU-2200-2020
SITE UTILITY
WATER AND SEWER PLAN
GALILEE BAPTIST CHURCH
6100 WOODYARD ROAD
UPPER MARLBORO, MD 20772

WESTERN BRANCH DRAINAGE BASIN / MINI BASIN 14-035
PRINCE GEORGE'S COUNTY, MARYLAND

NAD 83/91
NGVD 1929
SCALE 1" = SCALE



VICINITY MAP
SCALE 1" = 2000' PAGE: 5767 GRID: J02
Prince George's County

FOR LOCATION OF UTILITIES CALL 8-1-1 OR 1-800-257-7777
OR LOG ON TO www.call811.com or www.missutility.net
48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY

AS BUILT DATA

CONTRACT MANAGER
CONTRACTOR
INSPECTOR
LINE & GRADE
DATE STARTED
DATE COMPLETED
TYPE PIPE W TYPE OF PIPE S TYPE OF PIPE
TYPE MANHOLES
DATE FINALED
FINALED BY

ENGINEER'S/SURVEYOR'S AS-BUILT CERTIFICATION

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EMAIL ADDRESS: _____

LICENSE NO.:_____ EXPIRATION DATE:_____

GENERAL NOTES

1. The applicant shall obtain a Site Utility Permit (SU projects) or Plumbing Permit (MSU projects) prior to construction.
2. All construction shall be in coformance with provisions of hte Washington Suburban Sanitary Commission General Conditions and Standard Specifications, Standard Details for Construction, Development Services Code, Plumbing and Fuel Gas Code and these approved plans.
3. Water pipe ductile iron class 54 minimum with zinc coating and V-Bio polyethylene encasement.
4. Sewer pipe PVC ASTM D3034.
5. Notify the WSSC Contract Manager 48 hours prior to retrieving water maters. Contract Manager will schedule final meter reading.
6. Prior to beginning work on service connection obtain a Service Connection Permit (SCP). To schedule inspection of service connection call (301) 206-8385.
8. Coordinate with Maryland Transit Administration for work in vicinity of the Purple Line.
9. The pressure in the water may be lower than 40 psi at invert elevations greater than _____ feet. The pressure in the water main may be lower than 25 psi at invert elevations greater than _____ feet.
10. All metalic water main to be Ductile Iron Pipe with Zinc coating Class 54 min.
11. All Ductile Iron Pipe to be V-BioEnhanced Polyenthylene Encasement in accordance with AWWA C105 Method A.
12. All Ductile Iron Fittings to be Fusion Bonded Epoxy Coated.
13. Water mains shall be hydrostatically tested per specification section 02510. The test pressure shall be XXX psi for the duration of 2 hours and shall show no sign of leakage. 200 psi is the minimum pressure. As noted on the checklist, pressures up to 210 psi can be rounded down to 200 psi.

EROSION AND SEDIMENT CONTROL NOTES

1. All utility installation must be in conformance with the conditions of the Soil Conservation District/County/MDE sediment control approved plan number _____ issued mm/dd/yyyy.
2. WSSC Erosion & Sediment Control Permit is to be issued at the Pre-Construction meeting.
3. Contact WSSC Environmental Programs Unit 48 hours prior to utility installation at (301) 206-8075.

DEPENDENCY NOTE:

This (Minor) Site Utility project cannot be Released for Service until Contract/s #_____ is/are Released for Service.

BLOCKING NOTES

1. Restrain 8" W from TS&V at sta. 0+00 to cap at sta. 8+49.
2. Restrain 6" W from Tee at sta. 0+00 to cap at sta. 0+61.
3. Restrain fire hydrants to main per Std. Det. B/2.1.

SEWAGE FLOW TABULATION			
Units	Type	Flow Factor	Flow
5,300 Seats	Proposed	5.76 gpd/Seat	30,528 gpd
	Total Average Wastewater Flow =		30,528 gpd

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2 - 3	PLAN SHEETS
4 -5	PROFILES
6	SC-1

GRAPHIC SCALE

200' 100' 0' 200'
1" =200'

SU-2200-2020
SITE UTILITY
WATER AND SEWER PLAN

GALILEE BAPTIST CHURCH
6100 WOODYARD ROAD
UPPER MARLBORO, MD 20772
WESTERN BRANCH DRAINAGE BASIN / MINI BASIN 14-035
PRINCE GEORGE'S COUNTY, MARYLAND

SERVICE CATEGORIES	
W - 4	S - 4
HYDRAULIC GRADES	
HIGH	400'
LOW	351'

WSSC Erosion and Sediment Control Approval Note
This plan has been approved per requirements in the:
Standard Procedures of the WSSC Regulations for Utility Erosion and Sediment Control, Section V, Paragraph A.
Reviewed by:_____
Date:_____ Plan No._____

PIPE SCHEDULE		
TYPE	LENGTH	
	Private	House Connection
Water		
Sewer		

APPROVAL	DATE	REVISIONS

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NAME: BENJAMIN T. MOSIER, P.E.

EMAIL ADDRESS: BMOSIER@SOLTESZCO.COM

LICENSE NO.: 40806 EXPIRATION DATE: 06-20-2025

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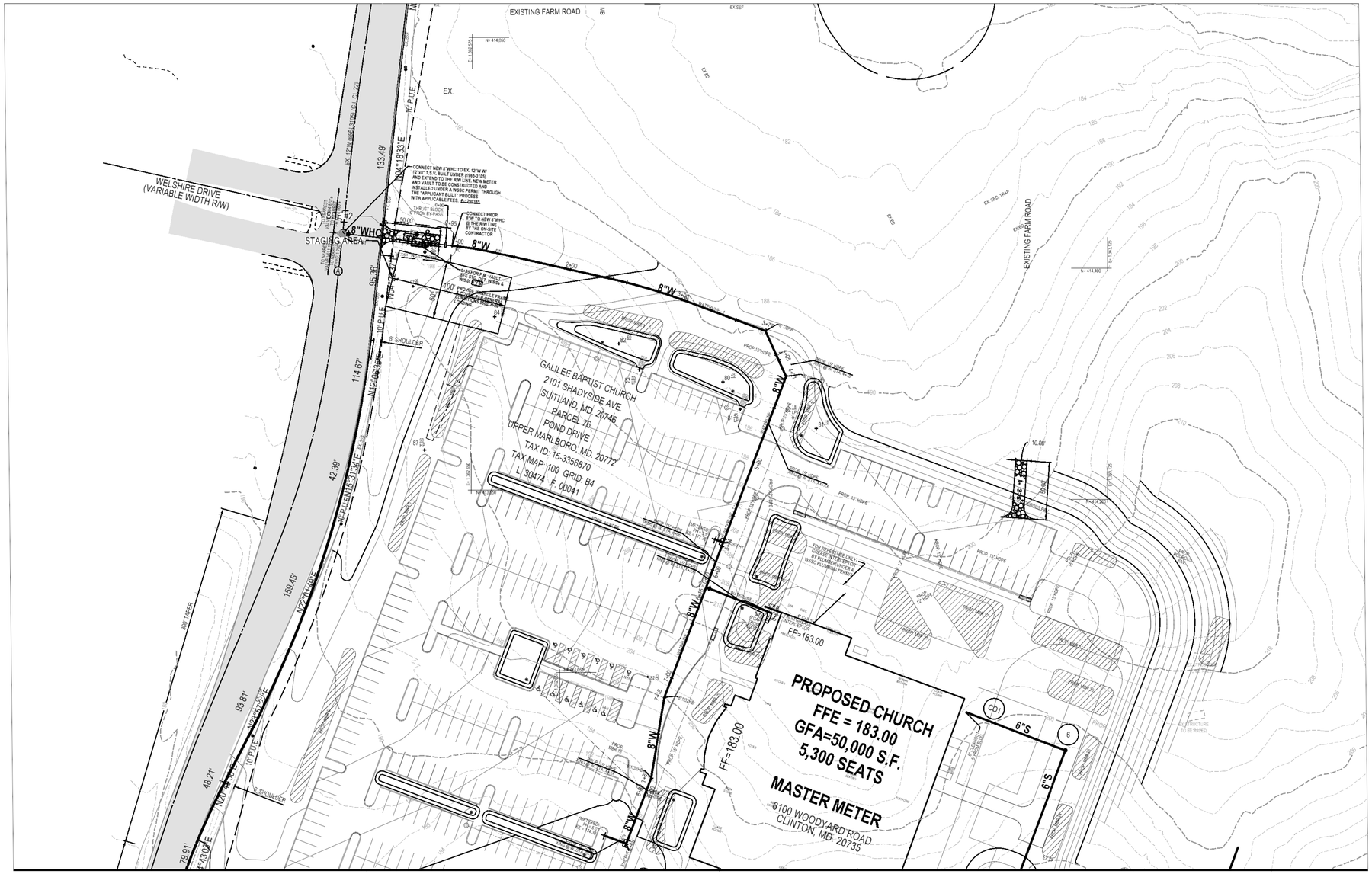
SUITLAND, MD 20746

CONTACT: REV. DR. LLOYD T. MCGRIFF
PHONE: 301 420 5013
EMAIL: LLOYDT123@AOL.COM

C-67

200' SHEET NO.	208SE09	No. 1
	209SE09	of 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021



SCALE 1" = 50'
NAD 83/91
NGVD 1929

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SU-2200-2020

SITE UTILITY
WATER AND SEWER PLAN

GALILEE BAPTIST CHURCH

WESTERN BRANCH DRAINAGE BASIN / MINI BASIN 14-035

PRINCE GEORGE'S COUNTY, MARYLAND

GRAPHIC SCALE
50' 25' 0' 50'
1"=50"

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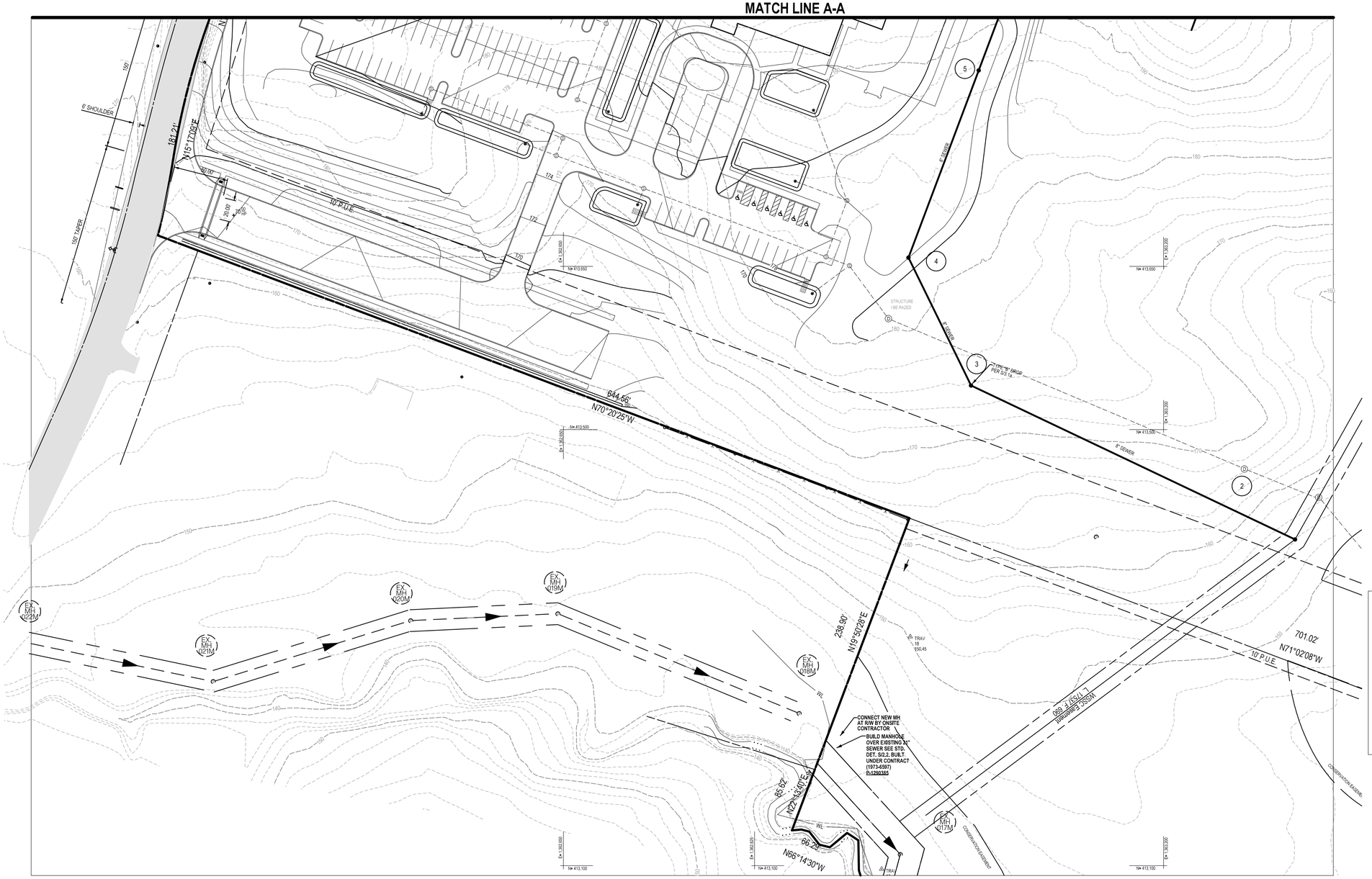
C-68

200'S 208SE09 NO 2 OF 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021

P:\14040600\ENGINEER\WATSEW\WAS_OWS_SHT_02.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 5:06:38 PM

MATCH LINE A-A



SCALE 1": SCALE
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WATER AND SEWER PLAN

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WESTERN BRANCH DRAINAGE BASIN / MINI BASIN 14-035

PRINCE GEORGE'S COUNTY, MARYLAND

GRAPHIC SCALE
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C-69

200'S 208SE09 NO 3 OF 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021

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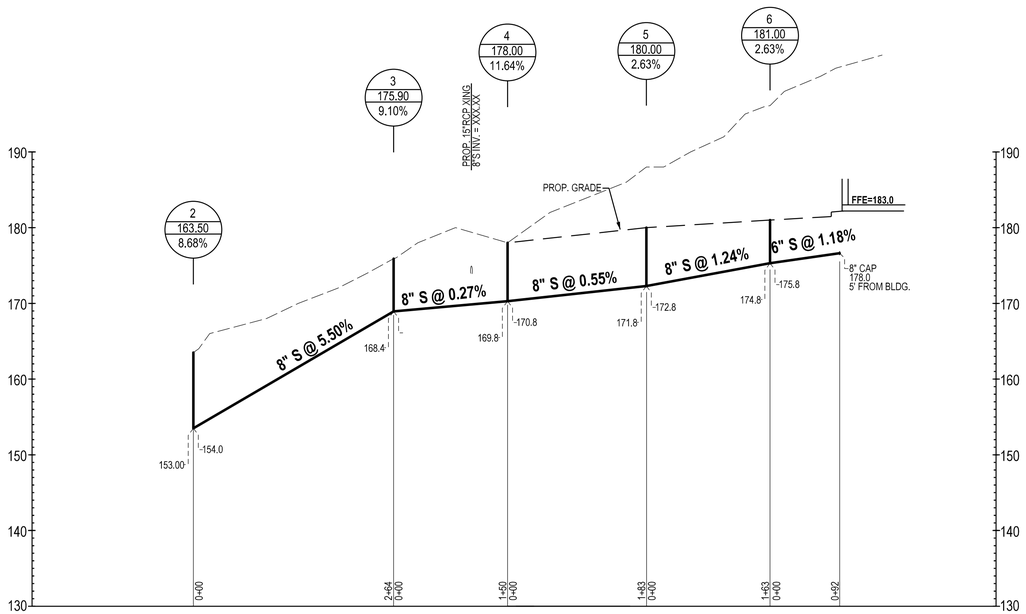
8" SEWER



SCALE 1": SCALE
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SITE UTILITY
WATER AND SEWER PLAN

GALILEE BAPTIST CHURCH

WESTERN BRANCH DRAINAGE BASIN / MINI BASIN 14-035

PRINCE GEORGE'S COUNTY, MARYLAND

GRAPHIC SCALE

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C-70

200'S 208SE09 | NO 4 | OF 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021

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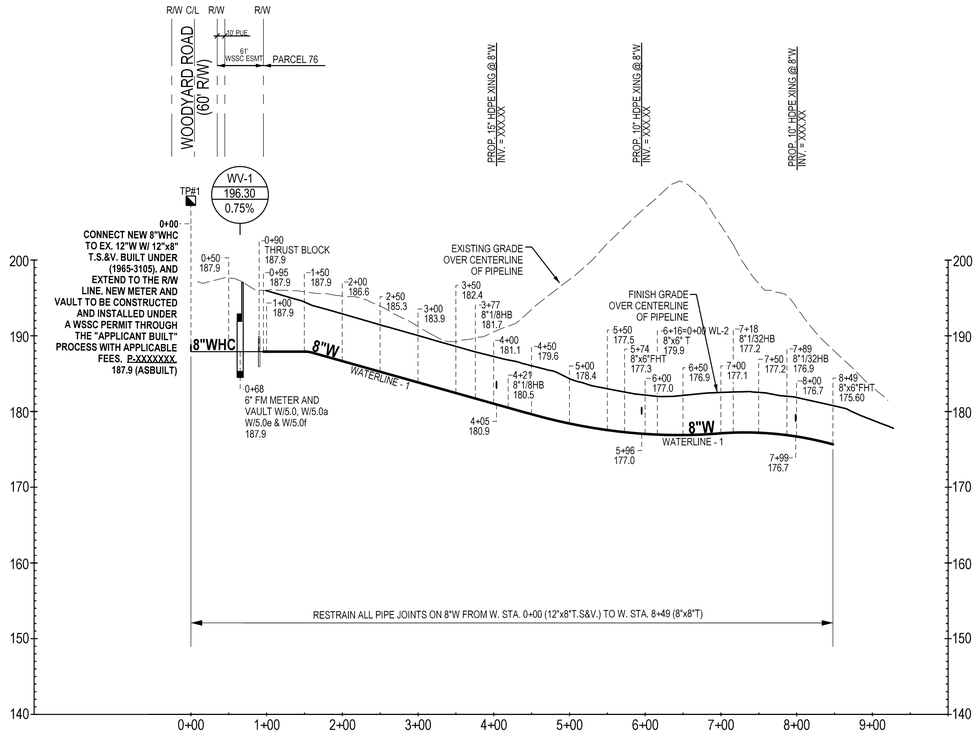
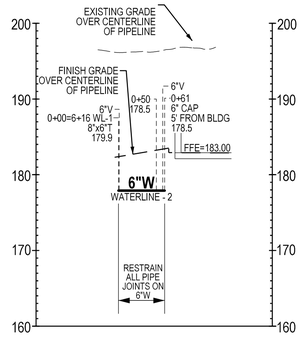
WATERLINE - 1



6" WATER SERVICE TO BUILDING WATERLINE - 2



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C-71

200'S	208SE09	NO	5
		OF	5

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P:\140406001\ENGINEER\WATSEW\WAS_OWS_SHT_05.sht Scale= 100.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 5:08:46 PM

STRUCTURAL GENERAL NOTES

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIE DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.

2. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE, CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. ANCHOR BOLTS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED, OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

6. EXISTING BUILDING: PROVIDE TEMPORARY SUPPORTS AND OTHER MEASURES AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING BUILDING DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT THE NEW CONSTRUCTION.

B. BUILDING CODE AND DESIGN LOAD INFORMATION

1. GOVERNING CODE: 2018 MARYLAND BUILDING CODE/2018 INTERNATIONAL BUILDING CODE
2. CONTACT FOR PRINCE GEORGES COUNTY: PIAK WANATH, (301) 636-2000
3. AN ASTERISK (*) SIGNIFIES LOAD APPLICABLE TO THE CONVENTIONAL STEEL FRAMED STRUCTURE WHICH EXCLUDES THE PRE-ENGINEERED METAL BUILDING ROOF AND FRAMING.

4. DESIGN ROOF DEAD LOAD* = 25 PSF

5. ROOF LIVE LOADS
   a. MINIMUM ROOF LIVE LOAD = 20 PSF
   b. DESIGN ROOF LIVE LOAD = 30 PSF

6. FLOOR LIVE LOADS
   a. OFFICES = 50 PSF
   b. ASSEMBLY AREAS = 100 PSF
   c. PLATFORM STAGE = 100 PSF
   d. LIGHT STORAGE = 125 PSF

7. ROOF SNOW DESIGN PARAMETERS
   a. GROUND SNOW LOAD Pg = 35 PSF
   b. FLAT-ROOF SNOW LOAD Pf = 27 PSF
   c. LOW SLOPE ROOF LOAD Pm = 22 PSF
   d. SNOW LOAD IMPORTANCE FACTOR Is = 1.1
   e. SNOW EXPOSURE FACTOR, Ce = 1.0
   f. THERMAL FACTOR, Ct (FOR MAIN ROOF) = 1.0
   g. THERMAL FACTOR, Ct (FOR CANOPIES) = 1.2
   h. ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING

8. WIND LOAD PARAMETER (ASCE 7-16)
   a. RISK CATEGORY III
   b. BASIC WIND SPEED (V) = 120 MPH
   c. BASIC WIND SPEED ASD (V-ASD) = 93 MPH
   d. WIND EXPOSURE CATEGORY = C
   e. INTERNAL PRESSURE COEFFICIENT, GCpi = + or -0.18

9. SEISMIC DESIGN PARAMETERS (ASCE 7-16)
   a. RISK CATEGORY III
   b. R = 3 (NO SPECIAL SEISMIC DETAILING REQUIRED)
   c. SITE CLASS = D
   d. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, Ss = 0.140
   e. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, S1 = 0.052
   f. SEISMIC LOAD IMPORTANCE FACTOR, Ie = 1.25
   g. SEISMIC DESIGN CATEGORY = B
   h. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
   i. DESIGN BASE SHEAR = 25 KIPS

10. INTERIOR PARTITIONS
    a. UNIFORM LATERAL LOAD = 5 PSF

11. HANDRAILS AND GUARDS
    a. 50 PLF IN ANY DIRECTION OR 200 LB CONCENTRATED LOAD

12. GRAB BARS, AND BENCH SEAT SYSTEMS
    a. 250 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT

C. REINFORCED CAST-IN-PLACE CONCRETE

1. MATERIALS
   a. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   b. STRUCTURAL CONCRETE

CLASS	LOCATION	F'c (PSI) @ 28 DAYS, U.N.O.
I	FOOTINGS, INTERIOR PIERS, BAPTISTERY FOUNDATION WALLS	3,000
II	INTERIOR SLABS ON GRADE, FILL OVER COMPOSITE STEEL/FORM DECK AND ALL INTERIOR CONCRETE NOT OTHERWISE SPECIFIED. WATER REDUCER REQUIRED. MINIMUM CEMENT CONTENT 520 LBS PER CUBIC YARD. POLYPROPYLENE FIBER REINFORCING AT 1.5 LBS PER CUBIC YARD PER MANUFACTURER'S DIRECTION.	3,500 @ 28 DAYS 1,800 @ 3 DAYS
III	EXTERIOR SLABS ON GRADE, PIERS CAST INTEGRAL WITH FOUNDATION WALLS, EXTERIOR PIERS, AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. WATER REDUCER AND AIR-ENTRAINING ADMIXTURE REQUIRED. MINIMUM CEMENT CONTENT 564 LBS PER CUBIC YARD. MINIMUM WATER-CEMENTITIOUS MATERIAL RATIO 0.45.	4,500 (WITH 6% AIR)
IV	BACKFILL BELOW FOOTINGS (READY OR SITE MIXED)	500

   c. ALL DEFORMED REINFORCING BARS: FY = 60,000; ASTM A615 OR A706
   d. EPOXY COATED REBAR: ASTM A775 OR ASTM A934, GREEN COLORED, COLD-BENDING PERMITTED.
   e. WELDED WIRE REINFORCEMENT: ASTM A1064, FLAT SHEETS NOT ROLLS
   f. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH/TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25%.
   g. WATER REDUCING ADMIXTURE: ASTM C494
   h. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED.

2. FIELD MANUAL:
   a. PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

3. CONTINGENCIES:
   a. INCLUDE AN ALLOWANCE IN THE BID TO PROVIDE AND INSTALL 1,000 ADDITIONAL POUNDS OF REINFORCING BARS. MATERIAL TO BE USED AND ITS APPLICATION SHALL BE DETERMINED BY THE ARCHITECT OR ENGINEER. BENT BARS, IF REQUIRED, SHALL BE BENT IN THE SHOP, UNLESS OTHERWISE APPROVED.
   b. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID, AND ARE NOT PART OF THE CONTINGENCY LISTED ABOVE.

4. OPENINGS:
   a. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. COORDINATE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
   b. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
   c. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVERY DIRECTION, U.N.O.. OPENINGS NOT EXCEEDING 16 INCHES x 16 INCHES MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.

5. FOOTINGS, PIERS, AND FOUNDATION STEM WALLS:
   a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING AS APPLICABLE.
   b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LAP LENGTH WITH HORIZONTAL REINFORCEMENT IS 45 TIMES THE BAR DIAMETER.
   c. BACKFILL AGAINST BOTH SIDES OF FOUNDATION OR RETAINING WALLS EQUALLY UNTIL THE LOWER ELEVATION IS ATTAINED.
   d. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS AND TRENCHES.
   g. CAST IN CONTINOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES O.C. FOR PARALLEL SURFACES, AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.

6. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:
   a. VERTICAL BARS IN WALLS & PIERS 30 DIAMETERS
   b. HORIZONTAL BARS IN SLABS & FOOTINGS 35 DIAMETERS
   c. HORIZONTAL BARS IN WALLS 45 DIAMETERS
   d. VERTICAL BARS IN PIERS THAT SUPPORT COLUMNS OF MOMENT RESISTING FRAMES OR BRACED FRAMES 48 DIAMETERS

7. CONSTRUCTION JOINTS:
   a. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. KEYWAYS SHALL BE 1-1/2 NCHES DEEP x 1/3 MEMBER THICKNESS.

8. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
   a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
   b. CONCRETE EXPOSED TO EARTH OR WEATHER (FORMED SURFACES):
      #5 BARS AND SMALLER 1-1/2 INCHES
      OTHERS 2 INCHES
   c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1-1/2 INCHES

9. TESTING, INSPECTIONS, AND SUBMITTALS
   a. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 UNLESS MODIFIED BY THE STRUCTURAL GENERAL NOTES OR SPECIFICATIONS. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, AND CONCRETE SUPPLIER.
   b. CONCRETEWORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1, "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING AND AC1 306R, "GUIDE TO COLD WEATHER CONCRETING".
   c. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1, "SPECIFICATION FOR HOT WEATHER CONCRETING", AND ACI 305R "GUIDE TO HOT WEATHER CONCRETING".
   d. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL.
   e. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301, SECTION 4.2.3.4, FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.
   f. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT.
   g. DETERMINE SLUMP, AIR-CONTENT, AND TEMPERATURE FOR EACH STRENGTH TEST.
   h. DO NOT PLACE CONCRETE IF SLUMP, AIR-CONTENT, OR TEMPERATURE VARY FROM ALLOWABLE. SUPERPLASTICIZER MAY BE ADDED AT THE SITE TO IMPROVE CONCRETE WITH INADEQUATE SLUMP.

10. MISCELLANEOUS:
    a. GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.
    b. REINFORCING BARS SHALL BE FREE FROM ALL DIRT AND RELEASE AGENTS.
    c. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS.
    d. THE ELEVATED CONCRETE SLAB ON COMPOSITE STEEL DECK SHALL BE PLACED IN SUCH A MANNER TO ACHIEVE A UNIFORM SLAB THICKNESS. THE STEEL FLOOR FRAMING HAS NOT BEEN DESIGNED TO SUPPORT THE WEIGHT OF ANY ADDITIONAL CONCRETE DUE TO BEAM, JOIST, AND GIRDER DEFLECTION.
    e. FOOTINGS MAY BE CAST AGAINST EARTH CUTS WHEN SOIL CONDITIONS PERMIT.
    f. DO NOT EMBED OR CAST-IN ALUMINUM CONDUITS OF SLEEVES WITHOUT PRIOR APPROVAL OF COATING MATERIAL.
    g. LOCATE CONTROL AND CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION ON DRAWINGS, LOCATE AT OPENINGS, WALLS, COLUMNS, GRID LINES, INSIDE CORNERS AND AT 15 FEET ON CENTER GENERALLY. SCHEDULE SLAB PLACEMENTS AND SAW-CUTTING OPERATIONS SUCH THAT SAWING IS COMPLETED PRIOR TO ONSET OF SHRINKAGE CRACKING. COMPLETE SAW CUTTING WITHIN 12 HOURS AFTER PLACEMENT.

D. MASONRY

1. SPECIFICATIONS: MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (TMS602-2016)," PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.

2. MATERIALS:
   a. NET AREA COMPRESSIVE STRENGTH OF MASONRY (f'm) = 2,500 PSI
   b. CONCRETE BLOCK: ASTM C90. MINIMUM NET AREA COMPRESSIVE STRENGTH OF C.M.U. = 3,250 PSI.
   c. MORTAR: ASTM C270 (USING THE UNIT STRENGTH METHOD), TYPE S.
   d. BOND BEAM AND CORE FILL: ASTM C476, COARSE OR FINE TYPE, PLACED PER TMS-602 TABLE. MINIMUM 28 DAY COMPRESSIVE STRENGTH = 2,500 PSI. SLUMP 8" TO 11".
   e. JOINT REINFORCING: HOT-DIPPED GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES, EXCEPT USE 3/16 INCH DIAMETER SIDE WIRES WHERE "HEAVY-WEIGHT" IS REQUIRED.
   f. BAR REINFORCING: ASTM A615 OR A706, GRADE 60, UNLESS NOTED OTHERWISE.
   g. WIRE TIES AND ANCHORS: RECTANGULAR TYPE, 3/16" DIAMETER WIRE TIES (HOT DIPPED GALVANIZED).

3. REINFORCED MASONRY: WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
   a. PROVIDE DOWELS FROM FOOTINGS, SAME SIZE AND SPACING AS WALL BARS. LAP 12 INCHES MINIMUM WITH WALL BARS. EMBED INTO FOOTING 9 INCHES, MINIMUM.
   b. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 3" X 4" IN SIZE, FREE OF MORTAR DROPPINGS.
   c. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
   d. AT SPLICES IN VERTICAL BARS, PROVIDE 48 BAR DIAMETER LAP.
   e. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
   f. MAXIMUM HEIGHT OF GROUT LIFT = 5'-0".
   g. ALL C.M.U.'S USED IN REINFORCED MASONRY SHALL BE TWO CELL UNITS.

4. MISCELLANEOUS:
   a. MEET CONSTRUCTION TOLERANCE REQUIREMENTS PER TMS 602.
   b. RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK, U.N.O.
   c. ALL MORTAR JOINTS SHALL BE TOOLED. CRACKED OR UNBONDED JOINTS SHALL BE REMOVED AND REPLACED PRIOR TO GROUT PLACEMENT.
   d. EXCEPT FOR INSULATED CAVITY WALLS, VERTICAL COLLAR JOINTS SHALL BE FILLED SOLID WITH MORTAR OR GROUT.
   e. PROVIDE 100% SOLID BEARING, MINIMUM THREE COURSES UNDER BEAMS, TWO COURSES UNDER LINTELS, AND ONE COURSE UNDER JOISTS, UNLESS DETAILED OTHERWISE.
   f. FILL CORE SOLID AROUND ANCHOR BOLTS.
   g. PROVIDE 100% SOLID BLOCKS OR SOLIDLY-FILLED HOLLOW BLOCKS FOR AT LEAST 4" ALL AROUND ALL POST INSTALLED ANCHORS SUCH AS SCREW ANCHORS, EXPANSION BOLTS, AND ADHESIVE ANCHORS.
   h. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
   i. PROVIDE HORIZONTAL JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
   j. LAP JOINT REINFORCING 6 INCHES FOR STANDARD.
   k. WHERE MASONRY UNITS ARE USED ABOVE HOLLOW UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF 100% SOLID MASONRY AT LEAST 8 INCHES HIGH BELOW TRANSITION.
   l. WHERE MASONRY ABUTS CAST-IN-PLACE CONCRETE, PROVIDE CAST-IN DOVE-TAIL ANCHOR SLOTS AT 24 INCHES ON CENTER.
   m. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.

E. STRUCTURAL STEEL

1. THE STEEL FRAME IS NOT DESIGNED FOR SELF-SUPPORT DURING ERECTION. PER SECTION 7.10.3 AND 7.10.4 OF THE AISC CODE OF STANDARD PRACTICE, ERECTION EFFORTS REQUIRING TEMPORARY BRACING, TIE-DOWNS, SHORING, SHEETING, ETC., SHALL BE COORDINATED WITH OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. SUCH BUILDING ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE PRE-ENGINEERED STEEL BUILDING BY OTHERS, ROOF TRUSSES, BRACED FRAMES, MOMENT FRAMES, STRUCTURAL DIAPHRAGMS OF SHEATHING OR COLD-FORMED STEEL DECKING, ETC.

2. MATERIALS:
   a. STRUCTURAL STEEL: ANGLES, PLATES, AND CHANNELS: ASTM A36; Fy = 36 KSI MIN.; WIDE FLANGE BEAMS: ASTM A992, Fy = 50 KSI MIN.; HIGH STRENGTH BOLTS: ASTM A325 OR A490; ANCHOR BOLTS: ASTM 1554, Fy = 36 KSI MIN. (SEE STRUCTURAL DRAWINGS FOR LOCATION OF BOLTS WITH Fy = 55 KSI); ELECTRODES: SERIES E70; STRUCTURAL PIPES: ASTM A53 OR A501, Fy = 35 KSI MIN.; SQUARE AND RECTANGULAR TUBING: ASTM A500 GRADE B, Fy = 46 KSI: MECHANICAL ANCHORS: SIMPSON TITEN HD THREADED BOLTS (DO NOT SUBSTITUTE EXPANSION ANCHORS FOR THREADED ANCHORS)

3. SUBMITTALS – INCLUDING DELEGATED DESIGN RESPONSIBILITIES OF THE FABRICATOR:
   a. CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD. FABRICATION SHALL NOT BEGIN PRIOR TO SHOP DRAWING APPROVAL BY ENGINEER OF RECORD.
   b. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS FOR ITEMS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE STEEL FABRICATOR. SUCH ITEMS ARE AS FOLLOWS: STRUCTURAL STEEL CONNECTIONS AS DEFINED IN SECTION 5 BELOW.
   c. FABRICATORS QUALIFICATIONS: THE OWNER OR GENERAL CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES ACCORDING TO SECTION 8.5 OF AISC 303-16, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. ALTERNATIVELY, SPECIAL INSPECTION IF THE FABRICATOR'S FACILITY IS NOT REQUIRED IF THE FABRICATOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY (BU); OR, IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCEPTANCE CRITERIA 172).

4. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:
   a. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 15TH EDITION (AISC 360-16).
   b. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303-16).
   c. STRUCTURAL WELDING CODE, AWS D1.1-15 OF THE AMERICAN WELDING SOCIETY (2015).
   d. SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS (RCSC) (2014).

5. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): SEE THE SPECIFICATIONS SHEETS IN THE ARCHITECTURAL DRAWING SERIES, SECTION 05 1200, SECTION IV FOR REQUIREMENTS REGARDING AESS. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF AESS.

6. CONNECTIONS:
   a. FIELD CONNECTIONS TO BE BOLTED, UNLESS FIELD WELDS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. CONNECTIONS SHALL CONFORM TO THE INSTRUCTIONS AND DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS. SIMPLE SHEAR CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND, RETAINED BY THE FABRICATOR, TO DEVELOP THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER OR FORCES SHOWN ON PLANS, WHICHEVER IS GREATER. SIMPLE SHEAR CONNECTIONS SHALL BE CONFIGURED ACCORDING TO THE SELECTION TABLES PROVIDED IN PART 10 OF THE AISC MANUAL USING EITHER 1) DOUBLE ANGLES, 2) SINGLE SHEAR PLATES, OR 3) SEATED CONNECTIONS (DESIGNED FOR A FLEXIBLE SUPPORT CONDITION). SIMPLE SHEAR CONNECTIONS TO HSS TUBE COLUMNS SHALL BE FABRICATED WITH WT SECTIONS, OR BUILT-UP TEE SECTIONS, WELDED TO OR NEAR THE CORNERS OF THE TUBE; BUT ONLY WHEN A SINGLE SHEAR PLATE RESULTS IN OVERSTRESS IN THE TUBE WALLS. CONNECTIONS OF BEAMS FRAMING INTO A GIRDER FROM ONE SIDE ONLY, SUCH AS AT SPANDREL GIRDERS, SHALL BE MADE WITH DOUBLE ANGLE CONNECTIONS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR MINIMUM REQUIREMENTS FOR CONNECTION DEPTH AND NUMBER OF BOLTS.
   b. IN THE EVENT CONNECTION INFORMATION IS MISSING OR VAGUE FOR A SPECIFIC CONDITION, THE FABRICATOR MAY EITHER SUGGEST A CONFIGURATION OR REQUEST ADDITIONAL INFORMATION IN WRITING IN ORDER TO COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS PRIOR TO SUBMITTING SHOP DRAWINGS.
   c. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16 INCH THICK AND WELDED FIELD SPLICE OF MAIN MEMBERS SHALL BE SUBJECTED TO NON-DESTRUCTIVE TESTING (OTHER THAN VISUAL INSPECTION) BY AN INDEPENDENT LABORATORY.
   d. ALL BOLTS IN BRACED FRAMES AND BOLTS IN SHEAR CONNECTIONS USED IN CONJUNCTION WITH FULL OR PARTIAL PENETRATION FLANGE WELDS SHALL BE SLIP CRITICAL (FRICTION) TYPE.

7. GALVANIZING:
   a. ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS, AND ALL ITEMS INDICATED ON THE DRAWINGS AS "GALVANIZED" SHALL BE GALVANIZED.

8. PAINT:
   a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE GALVANIZED, ENCASED IN CONCRETE, STEEL THAT WILL RECEIVE SPRAYED-ON FIREPROOFING OR ANY STEEL NOT EXPOSED TO VIEW IN THE FINISHED STRUCTURE, EXCEPT COLUMNS AND PORTIONS OF BEAMS EMBEDDED IN OR BUILT WITHIN EXTERIOR WALLS, WHICH SHALL BE PAINTED WITH TWO COATS OF PRIMER.
   b. ALL STEEL THAT IS IN DIRECT CONTACT WITH FIRE RETARDANT TREATED LUMBER SHALL BE PAINTED WITH TWO COATS OF RUST-INHIBITIVE PRIMER SUCH AS TNEMEC SERIES 10. MINIMUM DRY-FILM THICKNESS = 0.2 MILS PER COAT. ALSO STEEL SHALL BE PAINTED WITH TWO COATS OF TNEMEC UNIBOND DF SERIES 115 WITH MINIMUM DRY-FILM THICKNESS OF 0.2 MILS PER COAT.
   c. PREPARE STEEL SURFACES PER SSPC-SP6 "POWER TOOL CLEANING" AND PAINT WITH FABRICATORS STANDARD PRIME COAT, SUCH AS TNEMEC 10-99 (RED), OR 10-1009 (GRAY), TOUCH UP AFTER ERECTION.
   d. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR GALVANIZED STEEL SHAPES TO BE PAINTED, SUCH AS THE DECORATIVE CROSS AT THE MAIN ENTRANCE. PREPARATION OF GALVANIZED SURFACES, PRIMER, AND PAINT SHALL BE COMPATIBLE.

9. MISCELLANEOUS
   a. ANCHOR BOLTS AT STEEL COLUMN BASES ARE NOT DESIGNED TO PROVIDE, AND WILL NOT PROVIDE, STABILITY FOR THE STEEL FRAME DURING ERECTION. FOR SAFETY CONSIDERATIONS DURING ERECTION, SEE STRUCTURAL NOTE A.1.
   b. PROVIDE HOLES FOR OTHERS. SMALL PENETRATIONS IN ROOF DECK SHALL BE SUPPORTED BY A FRAME CONSISTING OF L3x3x¼ STEEL ANGLES SPANNING BETWEEN ROOF FRAMING MEMBERS. IF AN OPENING LARGER THAN 16" SQUARE IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
   c. STEEL SUPPORTING OR CONNECTING TO HVAC OR OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON DRAWINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
   d. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. SEE THE REINFORCED CONCRETE NOTES ABOVE FOR GROUT AND GROUTING REQUIREMENTS.
   e. STEEL BELOW GRADE IS TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF CONCRETE.
   f. PROVIDE 1/4 INCH THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE.
   g. PROVIDE HEAVY HEX NUTS AT EMBEDDED ENDS OF ALL ANCHOR BOLTS. HOOKS ARE NOT PERMITTED.
   j. PROVIDE BOLT HOLES FOR JOISTS BOLTED TO BEAMS AND ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
   k. FINISH ENDS OF ALL COLUMNS, STIFFENERS, AND ALL OTHER MEMBERS IN DIRECT BEARING.
   l. A VERTICAL STABILIZER PLATE SHALL BE PROVIDED ON EACH COLUMN FOR STEEL JOISTS AND JOIST GIRDERS. THE STABILIZER PLATE SHALL BE A MINIMUM OF 6" x 6", SHALL EXTEND A MINIMUM OF 3" BELOW THE BOTTOM OF THE JOIST BOTTOM CHORD, AND SHALL EXTEND A MINIMUM OF 1" ABOVE THE TOP OF THE JOIST BOTTOM CHORD. THE PLATE IS REQUIRED TO HAVE A 1⅜" DIAMETER HOLE FOR GUYING CABLE ATTACHMENT.
   m. EMBEDMENT LENGTH OF POST INSTALLED ANCHORS SUCH AS: SIMPSON TITEN HD, EXPANSION BOLTS, AND ADHESIVE ANCHORS INTO SOLIDLY GROUTED MASONRY OR CONCRETE SHALL BE AS FOLLOWS, U.N.O.:

1/2 INCH DIAMETER BOLTS	3 1/2 INCHES EMBEDMENT
3/4 INCH DIAMETER BOLTS	5 1/2 INCHES EMBEDMENT

10. CONTINGENCY:
    a. INCLUDE AN ALLOWANCE IN THE BID TO PROVIDE AND ERECT 2000 ADDITIONAL POUNDS OF STRUCTURAL AND / OR MISCELLANEOUS STEEL (SHAPES, ANGLES, PLATES, ETC.). MATERIAL TO BE USED AND ITS APPLICATION SHALL BE DETERMINED BY THE ARCHITECT. CONNECTIONS, IF REQUIRED, SHALL BE FIELD-WELDED WITH APPROVAL BY THE ENGINEER OF RECORD.

F. STEEL JOISTS

1. SPECIFICATION AND DESIGN:
   a. DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS ADOPTED BY THE STEEL JOISTS INSTITUTE (SJI).
   b. THE MANUFACTURER SHALL BE A MEMBER OF SJI.
   c. WIND UPLIFT: DESIGN STEEL JOISTS FOR A NET UPLIFT OF 20 PSF (ULTIMATE LOAD LEVEL PER ASCE7-16). PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO BRACE BOTTOM CHORDS OR WEBS SUBJECT TO COMPRESSION.

2. SUBMITTALS:
   a. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD. FABRICATION SHALL NOT BEGIN PRI

4. PROPERTIES:
   a. LIGHT GAGE FRAMING MEMBER SIZES INDICATED ON DRAWINGS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

DEPTH	WIDTH	GAGE	Ix(1N4)	Mr(IN-LB.)
3 5/8"	1 5/8"	18	0.710	7,340
3 5/8"	1 5/8"	16	0.873	13,300
6"	1 5/8"	18	2.320	14,500
6"	1 5/8"	16	2.860	25,900
6"	1 5/8"	14	3.524	35,700
6"	2"	14	4.100	39,700
HDS-6"	3"	16	4.856	41,604
HDS-3.63"	3"	16	1.483	21,290
8"	1 5/8"	18	4.630	32,800
8"	1 5/8"	16	5.740	45,100
8"	1 5/8"	12	11.200	89,800
8"	2"	16	6.570	37,400
8"	2"	14	8.140	54,700
10"	2"	16	11.300	46,600
10"	2 1/2"	14	15.700	82,900
12"	2"	14	22.000	76,600
12"	2"	12	30.400	127,000

5. MISCELLANEOUS:
   a. PROVIDE CONTINUOUS 16 GAGE HORIZONTAL COLD-ROLLED CHANNEL BRIDGING AT MID-HEIGHT OF INTERIOR NON-LOAD-BEARING PARTITION WALLS AND AT 4'-0" O.C. FOR ALL EXTERIOR AND INTERIOR LOAD-BEARING WALLS OR WALLS THAT RESIST OUT-OF-PLANE WIND OR SEISMIC LOADING.
   b. EXTERIOR WALLS SHALL HAVE A LAYER OF GYPSUM SHEATHING APPLIED TO BOTH FACES. ATTACHMENT OF SHEATHING TO WALL STUDS SHALL NOT BE LESS THAN #6 BUGLE HEAD SCREWS SPACED AT 12 INCHES ON CENTER.
   c. BALLOON FRAMED EXTERIOR WALLS SHALL BE LATERALLY BRACED AT THE TOP WITH MIN. 12 GAGE VERTICAL DEFLECTION CLIPS CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF PRIMARY STRUCTURE.
   d. INTERIOR NON-LOAD BEARING STUD WALLS SHALL HAVE DEFLECTION TRACK AT THE TOP OF THE WALL ATTACHED TO THE STRUCTURE CAPABLE OF PREVENTING CRACKING OF FINISHES APPLIED TO INTERIOR PARTITION FRAMING RESULTING FROM DEFLECTION OF STRUCTURE ABOVE.
   e. LOCATE JOISTS OR TRUSSES DIRECTLY OVER BEARING STUDS OR PROVIDE A LOAD DISTRIBUTION MEMBER AT THE TOP TRACK.
   f. PROVIDE WEB STIFFENERS AT REACTION POINTS WHERE SHOWN ON THE DRAWINGS.
   g. SIMPSON STRONG-TIE TB CROSS-BRIDGING OR FULL DEPTH JOIST BLOCKING SHALL BE INSTALLED AT THE MID-SPAN OF ALL CEILING OR FLOOR JOIST FRAMING BUT CONTINUOUS ROWS SHALL NOT BE SPACED APART GREATER THAN 5'-0" O.C. FOR 1⅝" FLANGE WIDTHS OR 7'-0" O.C. FOR 2" FLANGE WIDTHS. PROVIDE CONTINUOUS ROW AT JOIST BEARING ENDS NOT OTHERWISE RESTRAINED AGAINST ROTATION.
   h. PROVIDE BLOCKING IN FRAMING FOR ALL WALL-MOUNTED ITEMS, INCLUDING DOOR STOPS, EQUIPMENT OR CASEWORK.
   i. CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT.
   j. INSTALL FRAMING MEMBERS AND STRAPS IN ONE-PIECE LENGTHS UNLESS SPLICE CONNECTIONS ARE SPECIFICALLY INDICATED FOR TENSION MEMBERS.

J. STATEMENT OF SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED BELOW. ITEMS LISTED BELOW ARE RELATED TO THE STRUCTURAL ENGINEERING DRAWINGS ONLY. ADDITIONAL INSPECTIONS MAY BE REQUIRED UNDER THE DRAWING SECTIONS OF OTHER DISCIPLINES SUCH AS ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OR CIVIL.

2. THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELATED EXPERIENCE OR TRAINING TO PERFORM THE INSPECTION TASKS LISTED BELOW.

3. REPORT REQUIREMENTS OF THE APPROVED AGENCY AND THE SPECIAL INSPECTOR: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND SHALL MAINTAIN PHOTOGRAPHS OF STRUCTURAL ELEMENTS AND SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION PHASE. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS INCLUDING WRITTEN DESCRIPTION AND PHOTOGRAPHS OF CONFORMING CRITERIA AND CIRCUMSTANCES TO DEMONSTRATE AND JUSTIFY WHEN AN ITEM PASSES OR FAILS. FOR EXAMPLE, INCLUDE PHOTOGRAPHS OF INSTALLED REINFORCING STEEL FOR CONCRETE ITEMS OR STEEL CONNECTIONS, ETC.

4. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT AND THE BUILDING OFFICIAL.

5. SCHEDULE OF SPECIAL INSPECTIONS: SPECIAL INSPECTOR SHALL PERFORM INSPECTIONS OF THE FOLLOWING TASKS.

SOILS	
INSPECTION TASKS	EXTENT OF SERVICE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

CONCRETE	
INSPECTION TASKS	EXTENT OF SERVICE
1. INSPECTION OF REINFORCING STEEL, AND PLACEMENT.	PERIODIC
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH AWS D1.4 AND ACI 318.	PERIODIC
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS IN ACCORDANCE WITH ACI 355.2	PERIODIC
5. VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
8. INSPECT FORM WORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC

MASONRY LEVEL B (PER ACI 530.1)	
MINIMUM TESTS PRIOR TO CONSTRUCTION	
1. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDES (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ACI 530.1 FOR SELF-CONSOLIDATING GROUT.	
2. VERIFICATION OF f'm IN ACCORDANCE WITH ACI 530.1 PRIOR TO CONSTRUCTION.	
INSPECTION TASKS	EXTENT OF SERVICE
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	PERIODIC
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE. a. PROPORTIONS OF SITE PREPARED MORTAR. b. CONSTRUCTION OF MORTAR JOINTS. c. LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.	PERIODIC
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE. b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. c. PLACEMENT OF REINFORCEMENT AND CONNECTORS. d. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC
4. VERIFY DURING CONSTRUCTION a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGES OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. c. WELDING OF REINFORCEMENT. d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (BELOW 40 DEGREES F) OR HOT WEATHER (ABOVE 90 DEGREES F)	PERIODIC
5. OBSERVE PREPARATIONS OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	PERIODIC

STRUCTURAL STEEL (PER AISC 360-16, CHAPTER N)	
FABRICATOR AND ERECTOR QUALIFICATIONS	
1. THE FABRICATOR AND ERECTOR SHALL COMPLY WITH ALL PROVISIONS OF AISC 360-16, CHAPTER N. ITEMS SPECIFICALLY LISTED BELOW ARE INTENDED TO HIGHLIGHT THE MOST IMPORTANT APPLICABLE PROVISIONS. THIS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH OTHER APPLICABLE PROVISIONS.	
2. THE FABRICATOR SHALL PROVIDE DOCUMENTATION THAT SHOP FABRICATION PROCEDURES COMPLY WITH CHAPTER N, SECTION N2.	
3. THE ERECTOR SHALL DEMONSTRATE THE COMPETENCE TO COMPLY WITH THE PROVISIONS OF CHAPTER N, SECTION N2 BY SUBMITTING ACTUAL QUALITY CONTROL INSPECTION RECORDS OF PAST PROJECTS PERFORMED BY THE SAME ERECTOR AS PREPARED BY A QUALIFIED QUALITY CONTROL INSPECTOR WHICH SUPPORTS COMPLIANCE	
4. FABRICATOR SHALL PREPARE AND ISSUE SHOP DRAWINGS ACCORDING TO CHAPTER N, SECTION N3.	
INSPECTION TASKS	EXTENT OF SERVICE
1. PRIOR TO WELDING a. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS. b. WELDING PROCEDURE SPECIFICATIONS AVAILABLE. c. MANUFACTURERR CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE. d. MATERIAL IDENTIFICATION (TYPE/GRADE) e. WELDER IDENTIFICATION SYSTEM - THE FABRICATOR OR ERECTOR SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. f. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, BACKING TYPE AND FIT. g. CONFIGURATION AND FINISH OF ACCESS HOLES h. FIT-UP OF FILLET WELDS: DIMENSIONS, CLEANLINESS, TACKING. i. CHECK WELDING EQUIPMENT	CONTINUOUS CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC
2. DURING WELDING a. USE OF QUALIFIED WELDERS b. CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL. c. NO WELDING OVER CRACKED TACK WELDS. d. ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE. e. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, PROPER POSITION. f. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS.	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC
3. AFTER WELDING a. ULTRASONIC TESTING ON CJP GROOVE WELDS IN BUTT, T-, AND CORNER JOINTS SUBJECE TO TRANSVERSELY APPLIED TENSION LOADING IN MATERIALS 5/16 INCH THICK OR GREATER. b. SIZE, LENGTH, AND LOCATION OF WELDS c. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY. d. ARC STRIKES e. K-AREA f. BACKING REMOVED AND WELD TABS REMOVED g. REPAIR ACTIVITIES h. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OF MEMBER.	PERIODIC - MIN. 10% OF QUALIFYING JOINTS PER N5b THRU NFq CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS
4. PRIOR TO BOLTING a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) d. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC
f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHOD USED. g. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	CONTINUOUS PERIODIC
5. DURING BOLTING a. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED. b. JOINT BROUGHT TO A SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION. c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. d. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	PERIODIC PERIODIC PERIODIC PERIODIC
6. AFTER BOLTING a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	CONTINUOUS

STRUCTURAL STEEL CONSTRUCTION OTHER THAN STEEL	
INSPECTION TASKS	EXTENT OF SERVICE
1. INSTALLATION OF OPEN WEB STEEL JOISTS AND GIRDERS ACCORDING TO SJI SPECIFICATIONS a. VERIFY BEARING END (SEATS) CONNECTIONS WELDED OR BOLTED b. VERIFY IF HORIZONTAL AND/OR DIAGONAL BRIDGING IS STANDARD OR DIFFERS FROM SJI SPECIFICATIONS. c. VERIFY ANCHORAGE OF HORIZONTAL BRIDGING RUNS TO STRUCTURAL STEEL, MASONRY WALLS, OR DIAGONAL BRIDGED BAYS.	PERIODIC PERIODIC PERIODIC
2. INSTALLATION OF COLD-FORMED STEEL DECK SHALL BE IN CONFORMANCE WITH THE QA/QC STANDARD - "QUALITY CONTROL AND QUALITY INSURANCE FOR INSTALLATION OF STEEL DECK".	PERIODIC
3. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENT. b. MANUFACTURER'S CERTIFIED TEST REPORTS.	PERIODIC PERIODIC
4. INSPECTION OF WELDING: a. FLOOR AND ROOF DECK WELDS FOR COLD-FORMED STEEL DECK FROM TOP AND BOTTOM SIDES OF DECK. THIS INCLUDES SIZE, SPACING, AND QUALITY OF WELDS. b. REINFORCING STEEL - VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706. c. REINFORCING STEEL - SHEAR REINFORCEMENT	PERIODIC PERIODIC PERIODIC

COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION (PER AISI S240-15, CHAPTER D)	
COMPONENT MANUFACTURER QUALIFICATIONS AND RESPONSIBILITIES	
1. ESTABLISH AND MAINTAIN A QUALITY CONTROL PROGRAM ACCORDING TO D2.1. 2. PREPARE AND SUBMIT SHOP DRAWINGS ACCORDING TO SECTION D3.1. 3. PERFORM ALL QUALITY CONTROL INSPECTION TASKS AS REQUIRED PER SECTIONS D6.1 AND D6.2.	
INSPECTION TASKS FOR QUALITY ASSURANCE	EXTENT OF SERVICE
1. MATERIAL VERIFICATION DURING INSTALLATION a. VERIFY COMPLIANCE OF COLD-FORMED STEEL STRUCTURAL MEMBERS INCLUDING PRODUCT IDENTIFICATION ACCORDING TO SECTION A5.5. b. VERIFY COMPLIANCE OF CONNECTORS (AS DEFINED BY AISI S240). c. DOCUMENT ACCEPTANCE OR REJECTION CRITERIA OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS.	PERIODIC FOR ALL ITEMS
2. WELDING INSPECTIONS AND EXECUTION a. WELDING PROCEDURE SPECIFICATIONS ARE AVAILABLE. b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE. c. MATERIAL IDENTIFICATION (TYPE/GRADE). d. CHECK WELDING EQUIPMENT. e. USE OF QUALIFIED WELDERS. f. CONTROL AND HANDLING OF WELDING CONSUMABLES. g. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE). h. WELDING PROCEDURE SPECIFICATIONS FOLLOWED. j. VERIFY COMPLIANCE OF WELDS. k. WELDS MEET VISUAL ACCEPTANCE CRITERIA. m. VERIFY REPAIR ACTIVITIES. n. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED CONNECTIONS.	PERIODIC FOR ALL ITEMS
3. MECHANICAL FASTENING INSPECTIONS AND EXECUTION a. MECHANICAL FASTENER MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS. b. PROPER TOOLS AVAILABLE FOR MECHANICAL FASTENER INSTALLATION. c. PROPER STORAGE FOR MECHANICAL FASTENERS. d. MECHANICAL FASTENERS ARE POSITIONED AS REQUIRED. e. MECHANICAL FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. f. VERIFY COMPLIANCE OF MECHANICAL FASTENERS. g. REPAIR ACTIVITIES. h. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICALLY FASTENED CONNECTIONS.	PERIODIC FOR ALL ITEMS
4. AFTER INSTALLATION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION. a. VERIFY COMPLIANCE OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION. b. DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION.	PERIODIC FOR ALL ITEMS
5. COLD-FORMED STEEL LATERAL FORCE-RESISTING SYSTEMS a. VERIFY COMPLIANCE OF SHEAR WALL AND DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS. b. SPECIFICALLY VERIFY DIAGONAL STRAP BRACING IS INSTALLED TAUGHT AND STRAPS ARE CONTINUOUS BETWEEN GUSSET PLATES WITHOUT SPLICES. c. VERIFY WELDER IDENTIFICATION SYSTEM IS BEING USED AND PROPERLY IMPLEMENTED. d. CHECK FIT-UP OF WELDS AND CONNECTED PARTS (ALIGNMENT, GAPS, CONDITION OF STEEL SURFACES). e. PROPER FASTENERS SELECTED f. PROPER INSTALLATION PROCEDURE SELECTED. g. CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS. h. MATERIAL IDENTIFICATION (TYPE/GRADE). j. FOR JOINT CONNECTIONS, JOINT CLAMPED AND BROUGHT TIGHT TO AVOID GAPS BETWEEN PLIES. FOR SCREW CONNECTIONS, TOOL ADJUSTED TO AVOID STRIPPED AND OVERDRIVEN FASTENERS. k. FOR SCREW CONNECTIONS, TOOL ADJUSTED TO AVOID STRIPPED AND OVERDRIVEN FASTENERS. m. FOR POST-INTALLED CONNECTIONS TO CONCRETE, INSTALLATION PER MANUFACTURER'S INSTRUCTIONS. n. VERIFY COMPLIANCE OF COLD-FORMED STEEL LATERAL FORCE-RESISTING SYSTEM INSTALLATION o. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE-RESISTING SYSTEM.	PERIODIC FOR ALL ITEMS

K. ABBREVIATIONS: B. = BOTTOM; C.I.P. = CAST IN PLACE; CFS = COLD-FORMED STEEL; C.M.U. = CONCRETE MASONRY UNIT; (E) = EXISTING; E.E. = EACH END; E.F. = EACH FACE; E.W. = EACH WAY; GALV. = GALVANIZED; LLH = LONG LEG HORIZONTAL; LLV = LONG LEG VERTICAL; N.T.S. = NOT TO SCALE; O.C. = ON CENTER; S.O.G. = SLAB ON GRADE; T. = TOP; T.O.G.B. = TOP OF GRADE BEAM ELEVATION; T.O.P. = TOP OF PIER ELEVATION; T.O.S. = TOP OF SLAB ELEVATION; T.O.STL. = TOP OF STEEL ELEVATION; T.O.W. = TOP OF WALL ELEVATION; TYP. = TYPICAL; U.N.O. = UNLESS NOTED OTHERWISE; V.I.F. = VERIFY IN FIELD; P.E.M.B.M. = PRE-ENGINEERED METAL BUILDING MANUFACTURER.

L. LEGEND

- CAST-IN-PLACE CONCRETE
- REINFORCED CMU
- 100% SOLIDLY GROUTED CMU
- EXISTING WALL CONSTRUCTION
- FOOTING STEP
- SLAB DROP

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LICENSE EXPIRES: 06-21-2025
DRAWING ISSUED: 11-17-2023

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD
UPPER MARLBORO, MD 20772

DRAWING	DATE
[X] Bid Set	17 NOV 2023

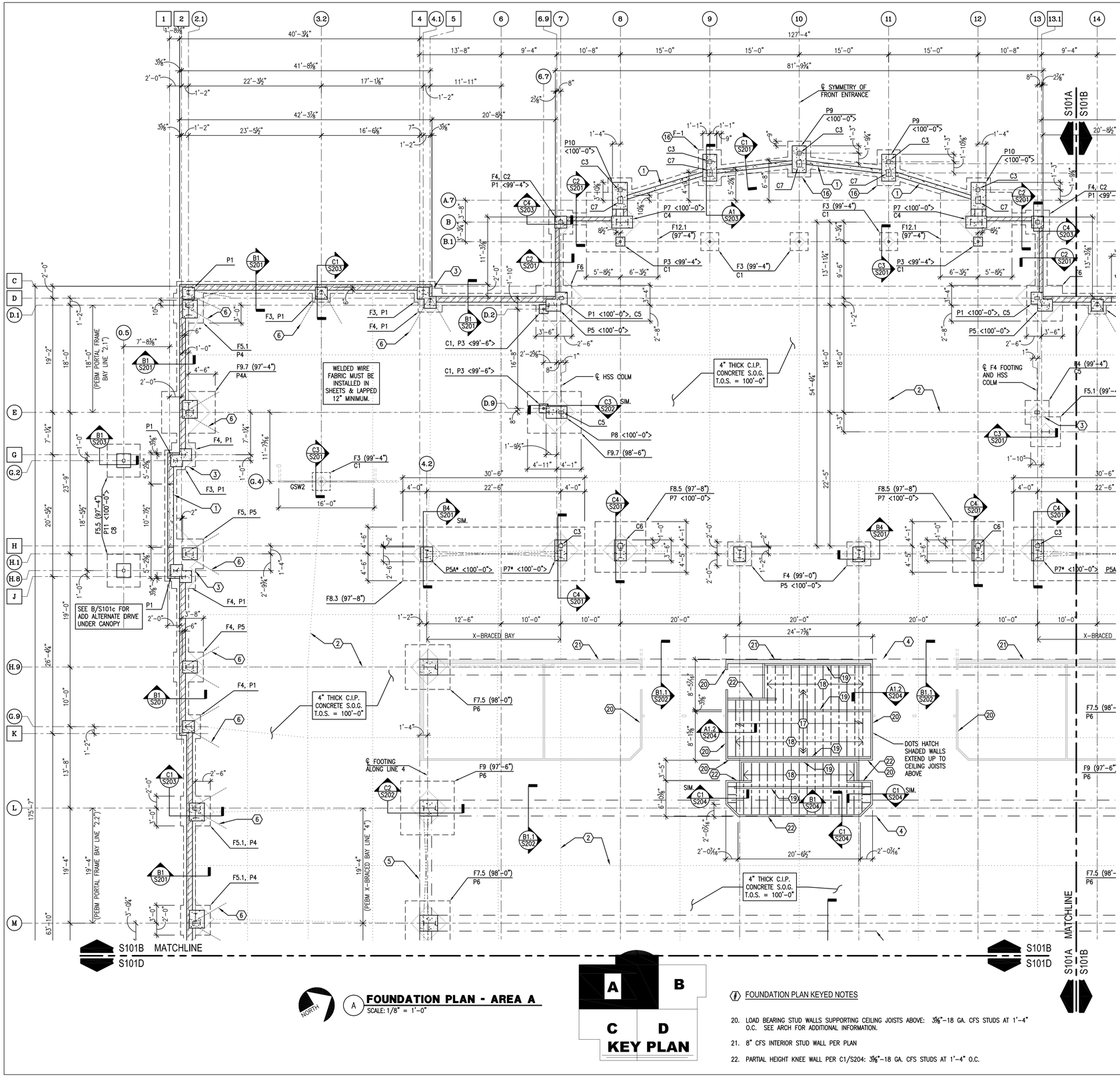
REVISIONS

STRUCTURAL GENERAL NOTES

S002
OF 18 SHEETS

216118

Plot Date: 11/9/2023 1:44:00 AM s001-galilee baptist str gen notes.dwg Chris Sekol



FOUNDATION PLAN NOTES:

A. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES AND LEGEND. SEE SHEET S101A FOR FOUNDATION PLAN KEYED NOTES, AND FOOTING, PIER, AND COLUMNS SCHEDULES.

B. REFERENCE ELEVATION 100'-0" = TOP OF SLAB ON GRADE. SEE CIVIL SITE PLAN FOR U.S.G.S ELEVATION.

C. FOOTINGS SHALL BE FOUNDED ON STABLE NATURAL SOILS OR NEW CONTROLLED FILLS PLACED DIRECTLY OVER STABLE NATURAL SOILS, AT THE ELEVATIONS SHOWN, WITH A PRESUMED BEARING CAPACITY OF 1.5 KSF. A FINAL GEOTECHNICAL INVESTIGATION WHICH VERIFIES THE ABOVE ASSUMPTIONS MUST BE PROVIDED PRIOR TO CONSTRUCTION. THE REPORT MUST PROVIDE SITE PREPARATION REQUIREMENTS AND RECOMMENDATIONS INCLUDING THE BASE PREPARATION FOR THE SLAB ON GRADE.

D. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED & APPROVED BY A QUALIFIED SOILS ENGINEER FOR THE BEARING CAPACITY INDICATED ABOVE PRIOR TO PLACING CONCRETE.

E. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH CLASS IV CONCRETE.

F. ALL EXTERIOR FOOTINGS SHALL BEAR MIN. 3'-0" BELOW ADJACENT GRADE. ADJUST BOTTOM OF FOOTING AS REQUIRED TO MAINTAIN FROST DEPTH.

G. ELEVATIONS SHOWN AT FOOTINGS ARE TOP OF FOOTING ELEVATION (T.O.F.).

J. ALL EXTERIOR TOP OF FOOTING (T.O.F.) = 97'-4", U.N.O.

K. TOP OF PIER ELEVATION <T.O.P.> FOR CONVENTIONAL STEEL COLUMNS = 99'-4", U.N.O. TOP OF PIER <T.O.P.> FOR P.E.M.B. COLUMNS = 100'-0", U.N.O.

L. FLOOR CONSTRUCTION = 4" THICK CONCRETE SLAB ON GRADE REINFORCED WITH WWF 6x6–W2.1xW2.1 AT MID–DEPTH, U.N.O., OVER 4 INCHES OF WELL GRADED CRUSHED STONE OR GRAVEL SUCH AS AASHTO #57. WELDED WIRE FABRIC IS PART OF THE STRUCTURAL LATERAL RESTRAINT SYSTEM AND MUST BE PROPERLY INSTALLED WITH 12" MINIMUM LAP SPLICES. SEE DETAIL A1/S201 FOR TYPICAL CONCRETE SLAB–ON–GRADE CONSTRUCTION.

M. TOP OF SLAB ELEVATION {T.O.S.} = 100'-0", U.N.O. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MINOR DEPRESSIONS AND SLOPES TO DRAIN NOT SHOWN ON FOUNDATION PLAN.

N. FOUNDATION WALL CONSTRUCTION: REINFORCED CMU WALLS WITH #5 VERTICAL BARS AT 48 INCHES O.C., U.N.O. SEE DETAIL A3/S201 FOR TYPICAL REINFORCED CMU WALL CONSTRUCTION.

P. ALL EXPANSION BOLTS, ADHESIVE ANCHORS, SIMPSON TITEN HD ANCHORS, ETC., MUST BE INSTALLED INTO 100% SOLID GROUTED CMU OR CAST–IN–PLACE CONCRETE WITH A MINIMUM OF 4" EDGE DISTANCE ALL AROUND.

Q. ANCHOR BOLTS FOR P.E.M.B.M. COLUMNS SHALL HAVE A MINIMUM OF 2½" BOLT PROJECTION ABOVE PIER. BOLT DIAMETER DESIGN FOR UPLIFT AND SHEAR SHALL BE PROVIDED BY THE P.E.M.B. MANUFACTURER. REQUIRED BOLT "EMBEDMENT" LENGTHS ARE LISTED BELOW (GRADE 36). TOTAL LENGTH OF BOLT = EMBEDMENT + PROJECTION:

1. RIGID FRAME COLUMN BASE PLATES BEARING ON CONCRETE PIERS OR ENDWALL COLUMNS THAT ACCEPT STEEL ROD X–BRACING OR BASE PLATES OF PORTAL FRAMES. STOP ANCHOR BOLTS 1" ABOVE FOOTING SURFACE. SEE PLAN FOR RESPECTIVE PIER AND FOOTING ELEVATIONS. MINIMUM ANCHOR BOLT EMBEDMENT IS PROVIDED BELOW.

   -3/4" DIA. x 1'-11"
   -1" DIA. x 1'-11"
   -1-1/4" DIA. x 1'-11"

2. ENDWALL COLUMN BASE PLATES BEARING ON CONCRETE PIERS THAT DO NOT ACCEPT STEEL ROD X–BRACING OR INTERIOR COLUMNS BEARING ON ISOLATED SPREAD FOOTINGS.

   -3/4" OR 5/8" DIA. x 1'-0"

R. FOR CONVENTIONALLY FRAMED STEEL COLUMNS, PROVIDE MIN. OF 4" OF ANCHOR BOLT PROJECTION ABOVE PIER OR FOOTING.

S. ▼ TRIANGULAR SYMBOL INDICATES FOOTING STEP PER A2/S201 AS NEEDED TO MAINTAIN LOCAL FROST DEPTH AS PROVIDED IN FOUNDATION PLAN GENERAL NOTE "G" ABOVE. FOOTING STEPS MAY OR MAY NOT BE REQUIRED, AND SHOULD BE COORDINATED WITH THE FINAL CIVIL/SITE GRADING PLANS.

T. ALL ANCHOR BOLTS SHALL TERMINATE WITH A HEAVY HEX NUT AT THE EMBEDDED END PER A4/S201. HOOKED ANCHOR BOLTS ARE NOT PERMITTED.

U. GRAY SHADED HATCHED WALLS WITH THE FOLLOWING NOTATION, "GSW1" OR "GSW2", IDENTIFIES LOAD–BEARING OR LATERAL RESISTING CFS STUD WALLS. REFER TO ROOF FRAMING PLAN AND DETAIL A4/S203 FOR MORE INFORMATION.

FOUNDATION PLAN KEYED NOTES

1. OMIT TOP COURSE OF MASONRY AND POUR SLAB THRU AT DOOR OPENINGS, PER C1/S201 UNLESS ANOTHER DETAIL IS SPECIFIED.
2. SAW–CUT CONTROL JOINTS PER A1.1 OR A1.2/S201. LOCATE GENERALLY AT CENTERLINES OF COLUMNS, AND RE–ENTRANT CORNERS, AT A MAXIMUM SPACING OF 15'–0".
3. CAST BOTH SPREAD FOOTINGS TOGETHER AND OVERLAP REINFORCING.
4. 2'–8" WIDE x 12" THICK CONCRETE TIE–ROD ENCASEMENT CAST INTEGRAL WITH SLAB ON GRADE WITH (3) #8 BARS AND (2) #7 BARS CONTINUOUS. REBAR COUPLERS ARE REQUIRED AT ALL SPLICES; DO NOT LAP SPLICE BARS. SEE B1/S202 FOR RELATED DETAILS.
5. 7" THICKENED SLAB x 2'–0" WIDE W/ (2) #6 TIE–RODS CONT. (LOCATED 4" BELOW TOP OF SLAB), SPANNING BETWEEN PIERS AT X–BRACED FRAMES ALONG LINES 4 & 16 ONLY. SEE B1/S202 FOR PLAN DETAIL.
6. #5 HAIR–PIN REBAR CAST INTO SLAB ON GRADE PER DETAIL C1/S202.
7. PLATFORM FLOOR CONSTRUCTION (LIMITS ARE DEFINED BY DOTS HATCH PATTERN): 3" CONCRETE OVER 2"–20 GA. COMPOSITE DECK W/ 6x6–W2.9xW2.9 WWF 2" BELOW TOP OF SLAB. OVERALL THICKNESS = 5". TOP OF SLAB = 102'–9½". THE COMPOSITE FLOOR DECK HAS BEEN DESIGNED TO SUPPORT THE WEIGHT OF A 4,000# (TOTAL) SCISSORS LIFT WITH A WHEEL BASE AS FOLLOWS: 2'–6" x 6'–0". NOTIFY THE ENGINEER OF RECORD FOR SCISSORS LIFTS THAT VARY FROM THESE SPECIFICATIONS.
8. 8" CMU SUPPORT WALL WITH HORIZONTAL REINFORCING, NOT VERTICAL REINFORCING, BEARING ON TOP OF 6" THICK CONCRETE FLOOR SLAB PER NOTE 14 BELOW.
9. 8x16 CMU PIER EA. SIDE OF P.E.M.B. COLUMN TO SUPPORT ENDS OF DECK SUPPORT ANGLE PER KEYED NOTE 10 BELOW.
10. CONT. L5x 3½x 5⁄16 DECK SUPPORT ANGLE AT EDGE OF PLATFORM.
11. (2) L3½ x 4 x 5⁄16 STEEL LINTELS (LLV – LLBB). PROVIDE 6" BEARING LENGTH, E.E. AND MAINTAIN 2'–0" CLEAR VERTICAL OPENING HEIGHT BENEATH BOTTOM SIDE OF LINTELS.
12. TURN–DOWN SLAB AT EDGE OF BAPTISTERY PIT. VERTICAL FACE TERMINATES INTO MAT FOOTING BELOW.
13. 8" THICK MAT FOOTING W/ #5 BARS AT 12" O.C., E.W. AT MID–DEPTH (T.O.F. = 97'–10")
14. EDGE OF 6" THICK CONCRETE SLAB ON GRADE W/ W6x6–W2.9xW2.9 W.W.F AT MID–DEPTH. SUPPORT ON CHAIRS DURING CONCRETE POUR. W.W.F. SHEETS MUST BE LAPPED A MINIMUM OF 12".
15. TOP OF PIER ELEVATION AT P.3 IS AT A LOWER ELEVATION AS COMPARED TO THE OTHER PIERS WHICH ARE ALL CAST INTEGRALLY TOGETHER. ADJUST VERTICAL REINFORCING AND TIES AS REQ'D TO FIT ALL PIER REINFORCING TOGETHER. SEE C3/S202 FOR DETAILS.
16. FOOTING TYPE F–1, SEE FOOTING SCHEDULE FOR REINFORCING. SIZE OF FOOTING IS 9" BEYOND THE LIMITS OF THE CONCRETE PIER ON EACH SIDE.
17. PLATFORM FLOOR CONSTRUCTION: ½" PLYWOOD, OVER ½" SOUNDBOARD, OVER ¾" FRT PLYWOOD FLOOR DECKING, OVER COLD–FORMED STEEL JOISTS. TOP OF PLATFORM = 101'–9".
18. 6"–16 GA. COLD–FORMED STEEL (CFS) JOISTS AT 1'–4" O.C.
19. LOAD BEARING STUD WALLS PER A1 & B1/S204: 3⅝"–20 GA. CFS STUDS AT 1'–4" O.C.
20. LOAD BEARING STUD WALLS SUPPORTING CEILING JOISTS ABOVE: 3⅝"–18 GA. CFS STUDS AT 1'–4" O.C. SEE ARCH FOR ADDITIONAL INFORMATION.
21. 8" CFS INTERIOR STUD WALL PER PLAN
22. PARTIAL HEIGHT KNEE WALL PER C1/S204: 3⅝"–18 GA. CFS STUDS AT 1'–4" O.C.

FOUNDATION PLAN KEYED NOTES

(1) (2) (3) (4) (5) (6) (16) (20) (21) (22)

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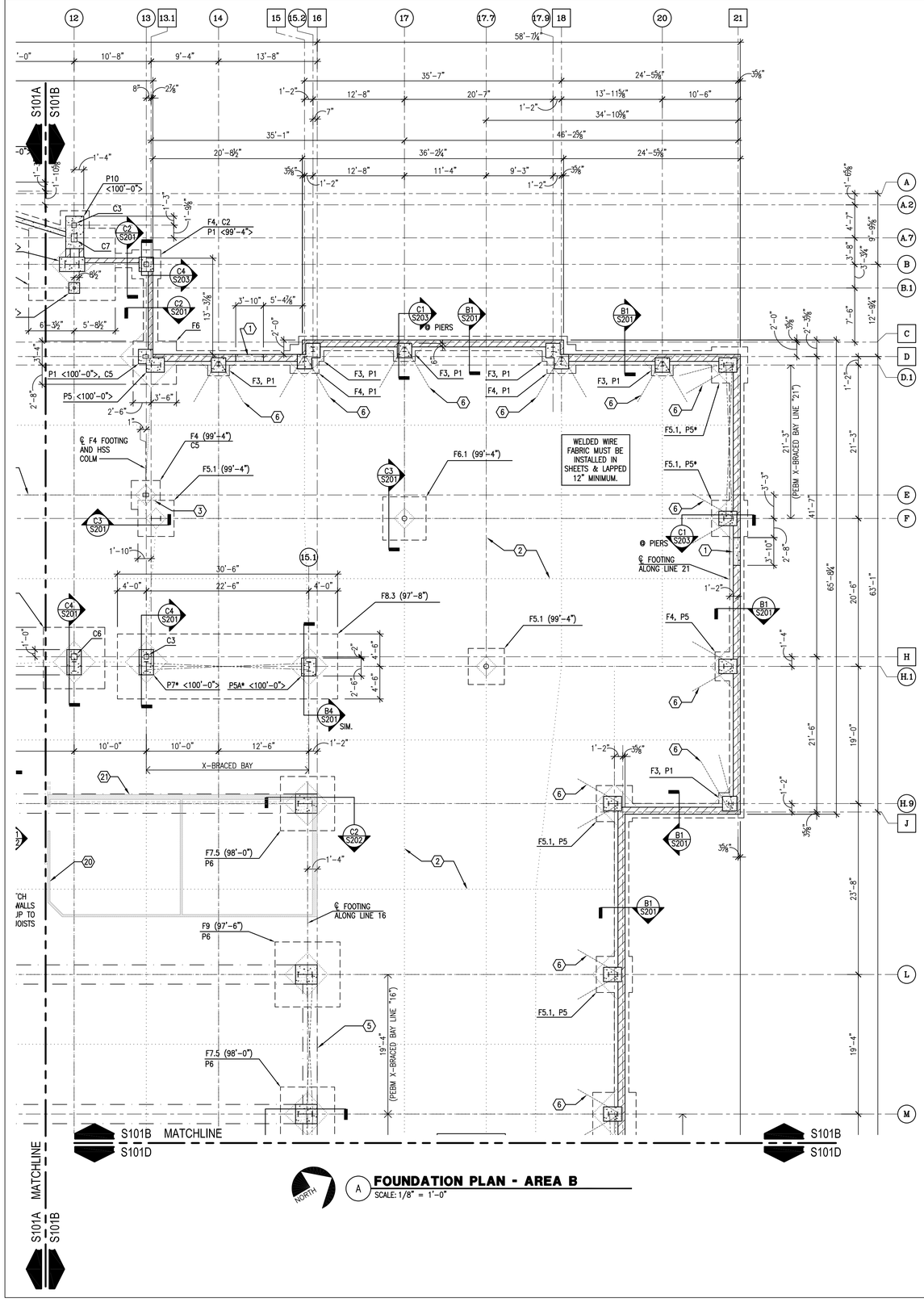
REVISIONS

FOUNDATION PLAN

S101A
OF 18 SHEETS

216118

Plot Date: 11/9/2023 1:56:35 AM s101-galilee baptist plans.dwg Chris Sekol



A **FOUNDATION PLAN - AREA B**
SCALE: 1/8" = 1'-0"

SPREAD FOOTING SCHEDULE

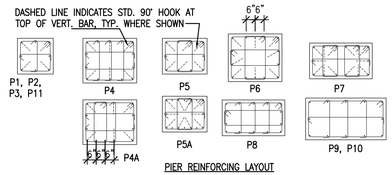
MARK	SIZE	BOTTOM REINF.	TOP REINF.
F-1	SEE PLAN	#5 @ 12" O.C., E.W.	
F3	3'-0" x 3'-0" x 12" THICK	(3) #5 E.W.	
F4	4'-0" x 4'-0" x 12" THICK	(4) #5 E.W.	
F5.1	5'-0" x 5'-0" x 14" THICK	(6) #5 E.W.	(6) #5 E.W.
F5.5	5'-6" x 5'-6" x 14" THICK	(6) #5 E.W.	(6) #5 E.W.
F6	6'-0" x 6'-0" x 14" THICK	(6) #5 E.W.	
F6.1	6'-0" x 6'-0" x 16" THICK	(8) #6 E.W.	(8) #5 E.W.
F7.5	7'-6" x 7'-6" x 18" THICK	(8) #6 E.W.	(8) #5 E.W.
F8.5	8'-6" x 8'-6" x 18" THICK	(9) #6 E.W.	(9) #6 E.W.
F8.30	8'-0" x 30'-6" x 20" THICK	#6 @ 10" O.C., E.W.	#6 @ 10" O.C., E.W.
F9.7	9'-0" x 7'-0" x 18" THICK	#6 @ 10" O.C., E.W.	#6 @ 10" O.C., E.W.
F9	9'-0" x 9'-0" x 20" THICK	(12) #6 E.W.	(12) #6 E.W.
F12.1	12'-0" x 10'-0" x 24" THICK	#6 @ 10" O.C., E.W.	#6 @ 10" O.C., E.W.

PIER SCHEDULE

MARK	SIZE	VERT. REINF.	TIES	REMARKS
P1	2'-0" x 2'-0"	(4) #7	#4 @ 10" O.C.	NOTES 1, 2, 3
P2	2'-0" x 2'-0"	(8) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4
P3	1'-6" x 1'-6"	(4) #7	#4 @ 10" O.C.	NOTES 1, 2, 3
P4	2'-6" x 3'-0"	(14) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5
P4A	2'-6" x 3'-0"	(14) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5, 6
P5	2'-0" x 2'-6"	(10) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4
P5A	2'-0" x 2'-6"	(16) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5, 6
P6	2'-8" x 3'-0"	(14) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5, 6
P7	2'-0" x 3'-6"	(14) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5
P8	2'-0" x 3'-6"	(14) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 5, 6
P9	2'-2" x 4'-6"	(12) #7	#4 @ 10" O.C.	NOTES 1, 2, 3
P10	2'-6" x 4'-6"	(12) #7	#4 @ 10" O.C.	NOTES 1, 2, 3
P11	2'-4" x 2'-4"	(8) #7	#4 @ 10" O.C.	NOTES 1, 2, 3, 4, 5

PIER SCHEDULE NOTES:
1. SEE A4/S201 FOR TYPICAL ANCHOR BOLT DETAIL.
2. SEE DETAIL A1/S202 FOR TYPICAL PIER CONSTRUCTION.
3. SEE "PIER REINFORCING LAYOUT" BELOW FOR CONFIGURATION OF PIER REINFORCING.
4. WHERE PIERS ARE LABELED ON THE PLANS WITH AN ASTERISK THUS (P2*), THE PIER VERTICAL CORNER BARS (AND SELECT MIDDLE BARS ON CERTAIN PIERS) SHALL TERMINATE W/ 90° HOOK AT TOP OF PIER, SHOWN AS A DASHED LINE ON "PIER REINFORCING LAYOUT" BELOW.
5. PROVIDE DOUBLE TIES AT TOP OF PIER.
6. PROVIDE TIES AT 4" O.C. IN THE TOP 1'-6" OF THE PIER HEIGHT.
7. ALL PIER VERTICAL BARS SHALL TERMINATE IN FOOTING WITH A STANDARD 90° HOOK WITH 3" CLEAR CONCRETE COVER BELOW THE HOOK TO THE BOTTOM OF FOOTING.

DASHED LINE INDICATES STD. 90° HOOK AT TOP OF VERT. BAR, TYP. WHERE SHOWN

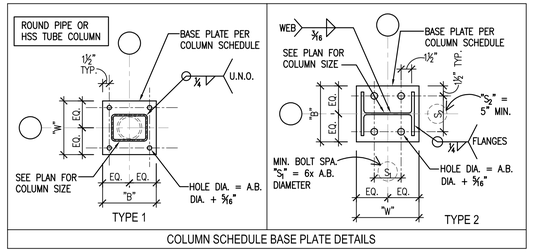


PIER REINFORCING LAYOUT

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE SIZE (T x B x W)	BASE PLATE TYPE	ANCHOR BOLTS
C1	HSS 4x4x¼	PL ¾ x 10" x 0'-10"	TYPE 1	(4) ¾" ø + 8" EMBED
C2	HSS 8x8x¼	PL ¾ x 1'-2" x 1'-2"	TYPE 1	(4) ¾" ø + 8" EMBED
C3	HSS 8x8x⅜	PL ¾ x 1'-2" x 1'-0"	TYPE 1	(4) ¾" ø + 12" EMBED
C4	W24x104	PL 1¼ x 1'-4" x 2'-8½"	C4/S202	(4) 1" ø + 31" EMBED
C5	HSS 10x6x5/16	PL 1 x 1'-0" x 1'-0"	TYPE 1	(4) ¾" ø + 12" EMBED
C6	HSS 10x10x⅜	PL 1 x 1'-4" x 1'-0"	TYPE 1	(4) ¾" ø + 12" EMBED
C7	HSS 10x14x⅜	PL 1 x 1'-4" x 1'-4"	TYPE 1	(4) ¾" ø + 12" EMBED
C8	HSS 6x6x⅜	PL 1 x 1'-0" x 1'-0"	A3/S204	(8) ¾" ø + 18" EMBED

COLUMN SCHEDULE NOTES
1. SEE A4/S201 FOR TYPICAL ANCHOR BOLT DETAIL.
2. UNLESS NOTE OTHERWISE, ANCHOR BOLTS SHALL BE ASTM F1554, GR 36 (Fy=36 KSI)
3. ANCHOR BOLTS MARKED WITH AN ASTERISK SHALL BE ASTM F1554, GR 50 (Fy=55 KSI)



COLUMN SCHEDULE BASE PLATE DETAILS

FOUNDATION PLAN KEYED NOTES

1. OMIT TOP COURSE OF MASONRY AND POUR SLAB THRU AT DOOR OPENINGS, PER C1/S201 UNLESS ANOTHER DETAIL IS SPECIFIED.
2. SAW-CUT CONTROL JOINTS PER A1.1 OR A1.2/S201. LOCATE GENERALLY AT CENTERLINES OF COLUMNS, AND RE-ENTRANT CORNERS, AT A MAXIMUM SPACING OF 15'-0".
3. CAST BOTH SPREAD FOOTINGS TOGETHER AND OVERLAP REINFORCING.
4. 2'-8" WIDE x 12" THICK CONCRETE TIE-ROD ENCASEMENT CAST INTEGRAL WITH SLAB ON GRADE WITH (3) #8 BARS AND (2) #7 BARS CONTINUOUS. REBAR COUPLERS ARE REQUIRED AT ALL SPLICES; DO NOT LAP SPLICE BARS. SEE B1/S202 FOR RELATED DETAILS.
5. 7" THICKENED SLAB x 2'-0" WIDE W/ (2) #6 TIE-RODS CONT. (LOCATED 4" BELOW TOP OF SLAB), SPANNING BETWEEN PIERS AT X-BRACED FRAMES ALONG LINES 4 & 16 ONLY. SEE B1/S202 FOR PLAN DETAIL.
6. #5 HAIR-PIN REBAR CAST INTO SLAB ON GRADE PER DETAIL C1/S202.
7. PLATFORM FLOOR CONSTRUCTION (LIMITS ARE DEFINED BY DOTS HATCH PATTERN): 3" CONCRETE OVER 2"-20 GA. COMPOSITE DECK W/ 6x6-W2.9xW2.9 WWF 2" BELOW TOP OF SLAB. OVERALL THICKNESS = 5". TOP OF SLAB = 102'-8½". THE COMPOSITE FLOOR DECK HAS BEEN DESIGNED TO SUPPORT THE WEIGHT OF A 4,000# (TOTAL) SCISSORS LIFT WITH A WHEEL BASE AS FOLLOWS: 2'-6" x 6'-0". NOTIFY THE ENGINEER OF RECORD FOR SCISSORS LIFTS THAT VARY FROM THESE SPECIFICATIONS.
8. 8" CMU SUPPORT WALL WITH HORIZONTAL REINFORCING, NOT VERTICAL REINFORCING, BEARING ON TOP OF 6" THICK CONCRETE FLOOR SLAB PER NOTE 14 BELOW.
9. 8x16 CMU PIER EA. SIDE OF P.E.M.B. COLUMN TO SUPPORT ENDS OF DECK SUPPORT ANGLE PER KEYED NOTE 10 BELOW.
10. CONT. L5x 3½x 5/16 DECK SUPPORT ANGLE AT EDGE OF PLATFORM.
11. (2) L3½ x 4 x 5/16 STEEL LINTELS (LLV – LLBB). PROVIDE 6" BEARING LENGTH, E.E. AND MAINTAIN 2'-0" CLEAR VERTICAL OPENING HEIGHT BENEATH BOTTOM SIDE OF LINTELS.
12. TURN-DOWN SLAB AT EDGE OF BAPTISTERY PIT. VERTICAL FACE TERMINATES INTO MAT FOOTING BELOW.
13. 8" THICK MAT FOOTING W/ #5 BARS AT 12" O.C., E.W. AT MID-DEPTH (T.O.F. = 97'-10")
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15. TOP OF PIER ELEVATION AT P3 IS AT A LOWER ELEVATION AS COMPARED TO THE OTHER PIERS WHICH ARE ALL CAST INTEGRALLY TOGETHER. ADJUST VERTICAL REINFORCING AND TIES AS REQ'D TO FIT ALL PIER REINFORCING TOGETHER. SEE C3/S202 FOR DETAILS.
16. FOOTING TYPE F-1, SEE FOOTING SCHEDULE FOR REINFORCING. SIZE OF FOOTING IS 9" BEYOND THE LIMITS OF THE CONCRETE PIER ON EACH SIDE.
17. PLATFORM FLOOR CONSTRUCTION: ½" PLYWOOD, OVER ½" SOUNDBOARD, OVER ¾" FRT PLYWOOD FLOOR DECKING, OVER COLD-FORMED STEEL JOISTS. TOP OF PLATFORM = 101'-9".
18. 6"-16 GA. COLD-FORMED STEEL (CFS) JOISTS AT 1'-4" O.C.
19. LOAD BEARING STUD WALLS PER A1 & B1/S204: 3⅝"-20 GA. CFS STUDS AT 1'-4" O.C.
20. LOAD BEARING STUD WALLS SUPPORTING CEILING JOISTS ABOVE: 3⅝"-18 GA. CFS STUDS AT 1'-4" O.C. SEE ARCH FOR ADDITIONAL INFORMATION.
21. 8" CFS INTERIOR STUD WALL PER PLAN
22. PARTIAL HEIGHT KNEE WALL PER C1/S204: 3⅝"-18 GA. CFS STUDS AT 1'-4" O.C.

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STATE OF MARYLAND
CHRISTOPHER P. SEKOL
No. 26210
PROFESSIONAL ENGINEER

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6300 WOODYARD ROAD
UPPER MARLBORO, MD 20772

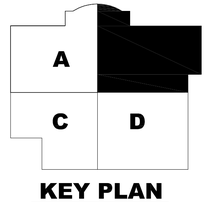
DRAWING	DATE
[X] Bid Set	17 NOV 2023

REVISIONS

FOUNDATION PLAN

S101B
OF 18 SHEETS

216118



KEY PLAN

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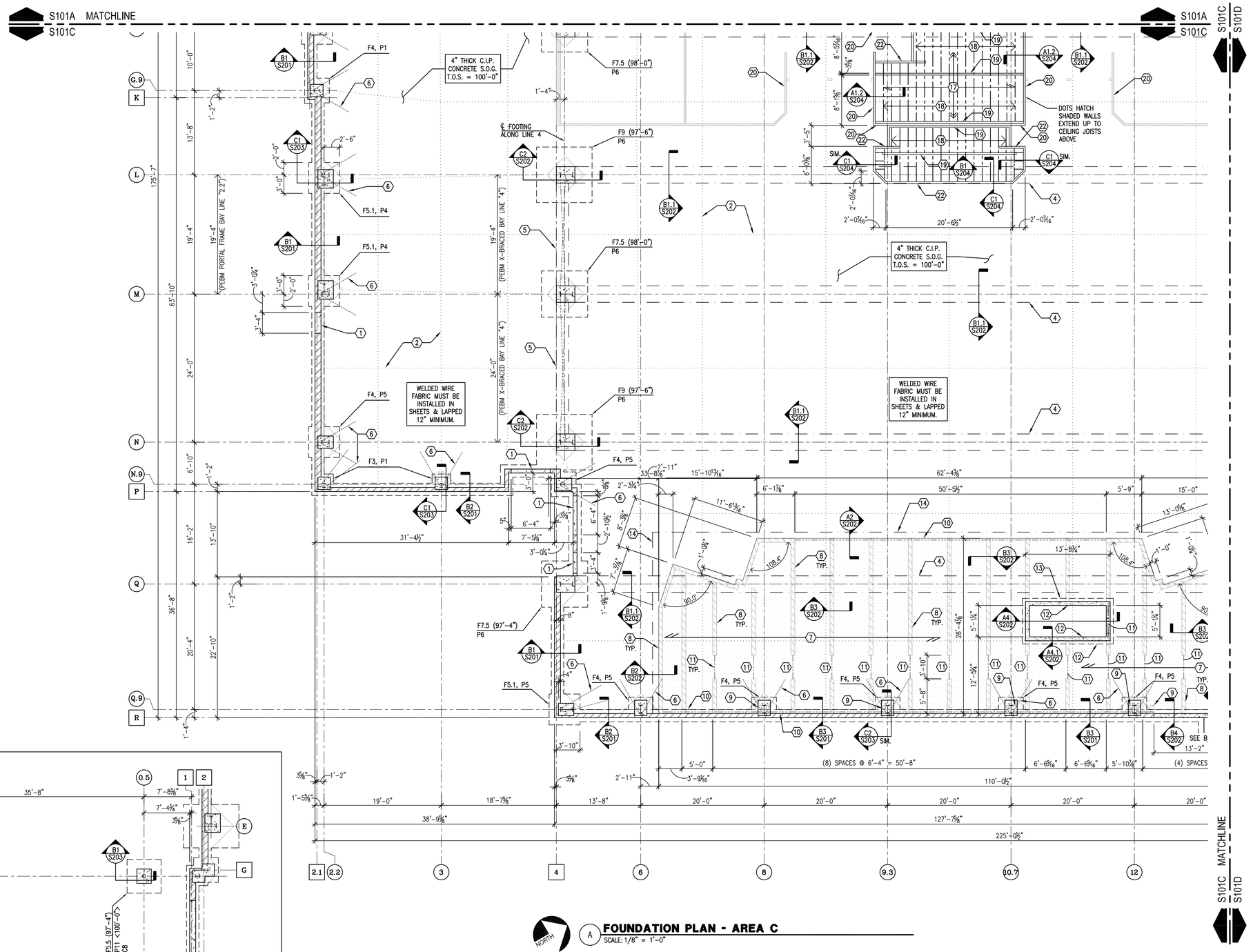
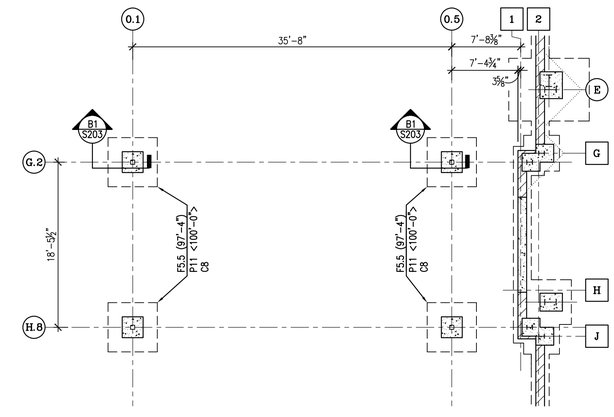


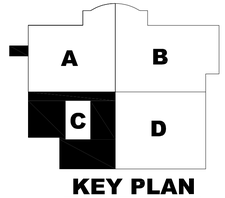
A **FOUNDATION PLAN - AREA C**
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

A. SEE SHEET S101A FOR FOUNDATION PLAN NOTES AND FOUNDATION KEYED NOTES.



B **ADD ALTERNATE ENTRANCE CANOPY FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"



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FOUNDATION PLAN

S101C
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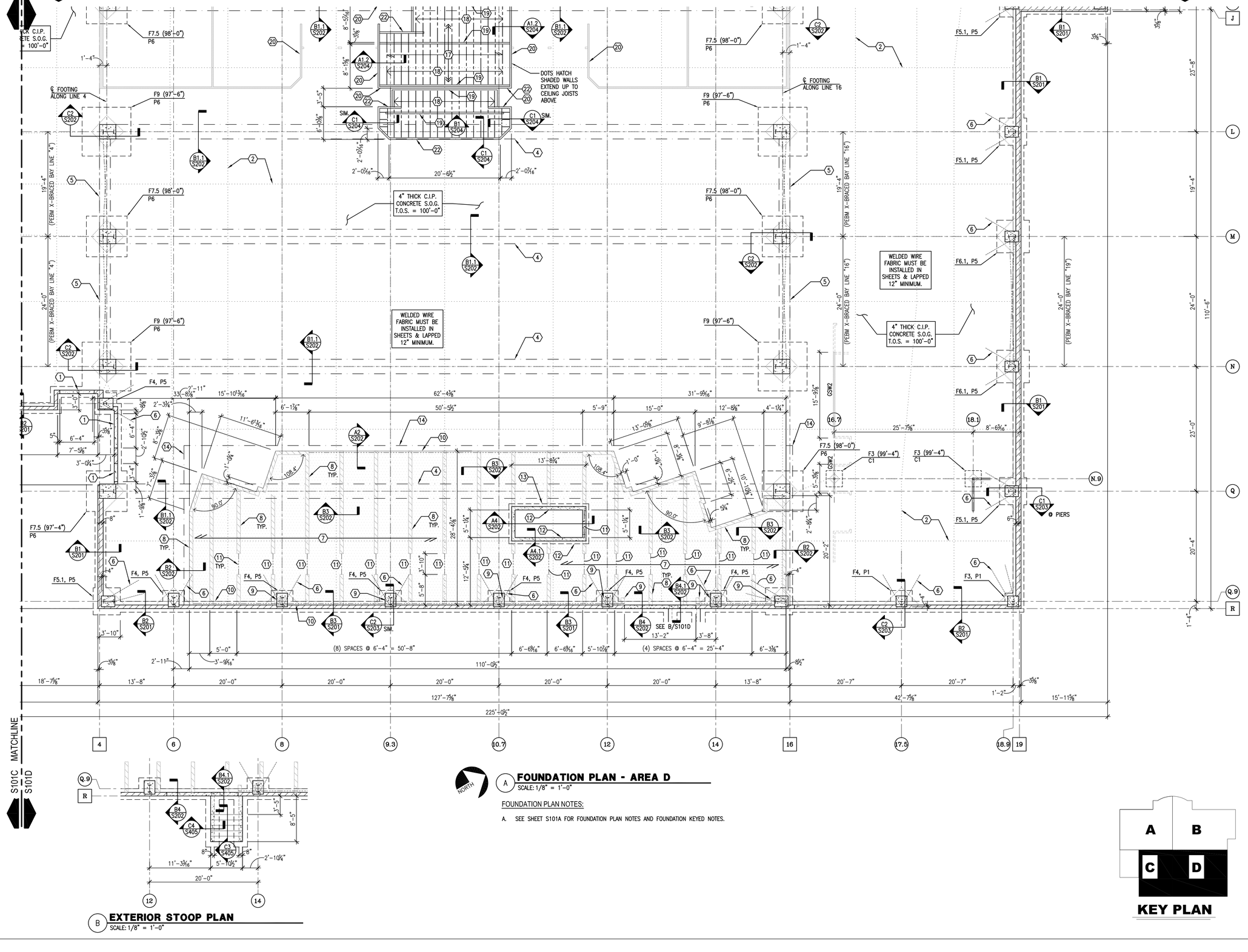

A FOUNDATION PLAN - AREA D

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

A. SEE SHEET S101A FOR FOUNDATION PLAN NOTES AND FOUNDATION KEYED NOTES.

B EXTERIOR STOOP PLAN

SCALE: 1/8" = 1'-0"

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A | B
C | D

KEY PLAN

FOUNDATION PLAN

S101D
OF 18 SHEETS

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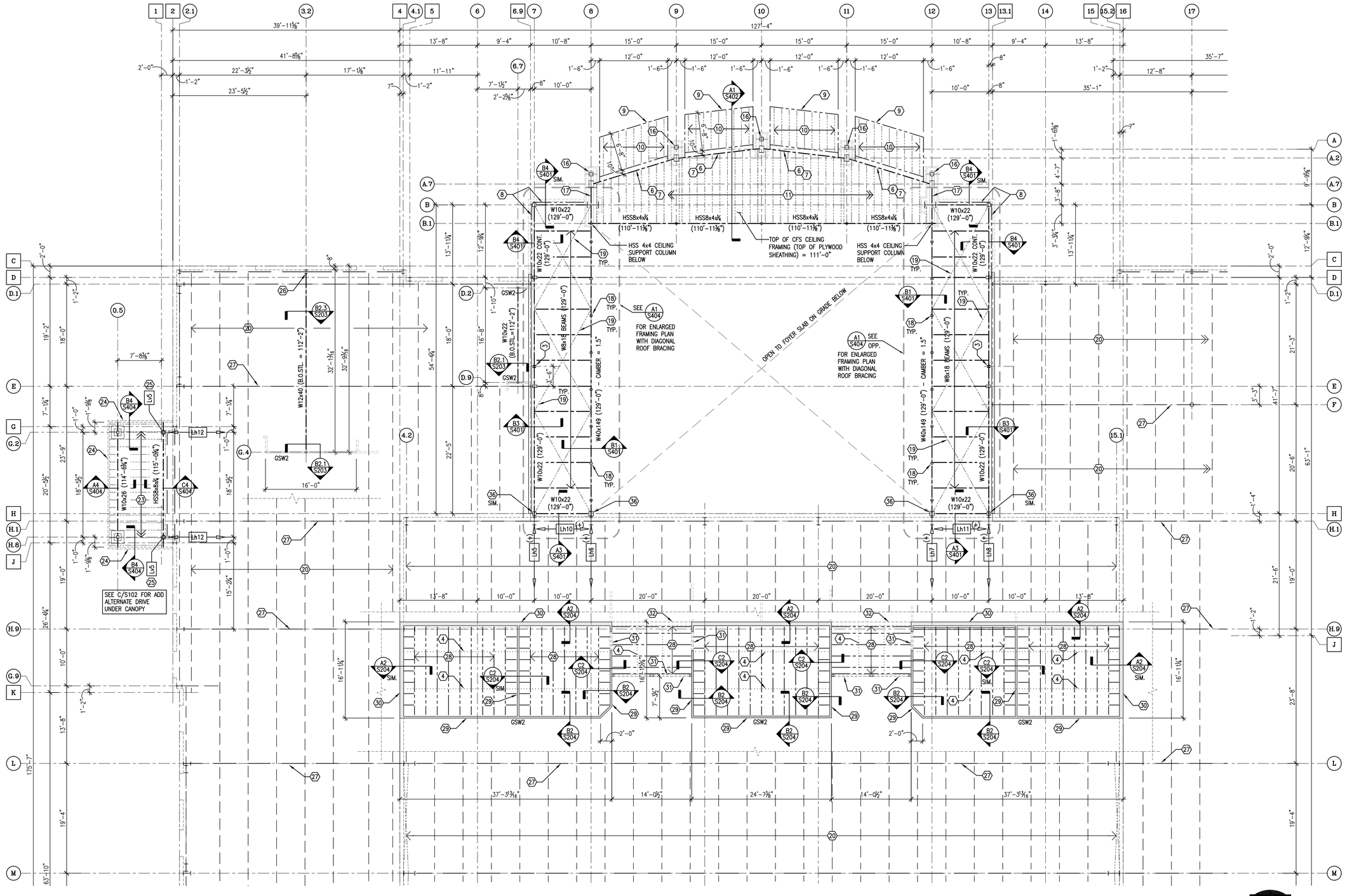
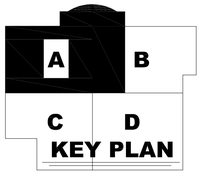


A **MID-HEIGHT ROOFS OVER FOYER AND AREA A + B**
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN GENERAL NOTES

A. SEE SHEET S102 FOR ROOF FRAMING PLAN GENERALS NOTES AND ROOF FRAMING PLAN KEYED NOTES.



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ROOF FRAMING PLAN - A

S102A
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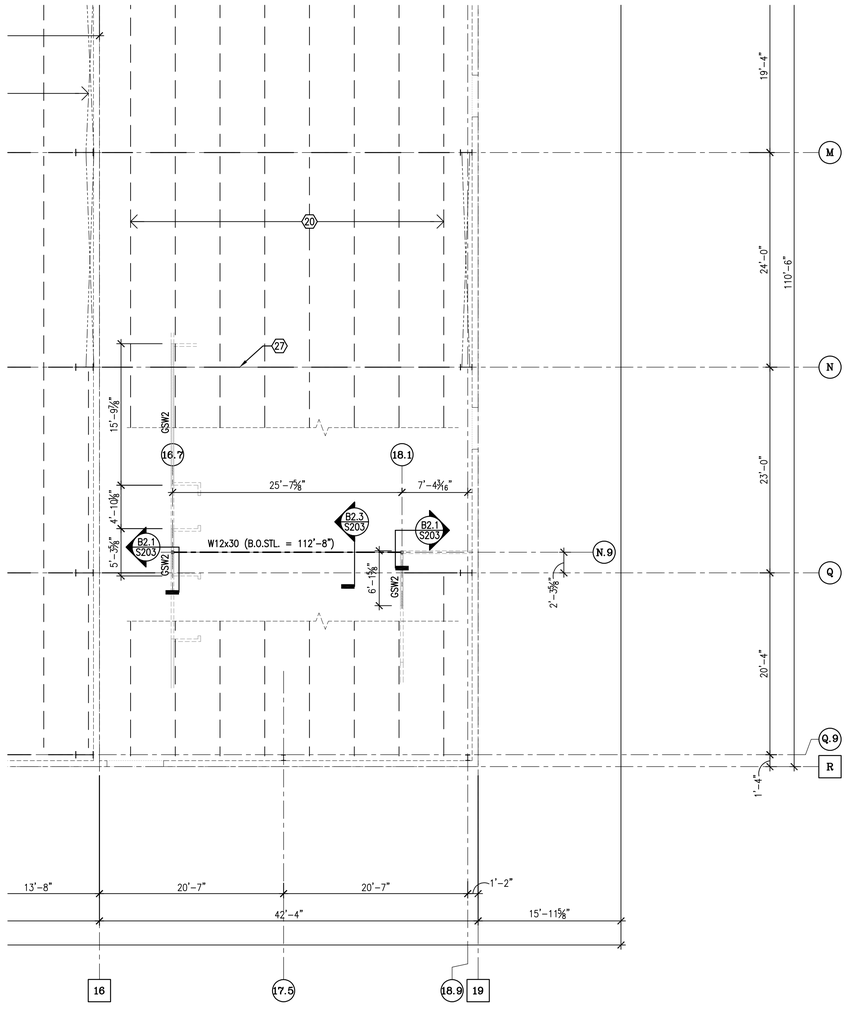


NORTH

A PEMB ROOF - OPERABLE PARTITION FRAMING
SCALE: 1/8" = 1'-0"

Lv# P.E.M.B. COLUMN GRAVITY LOAD SCHEDULE

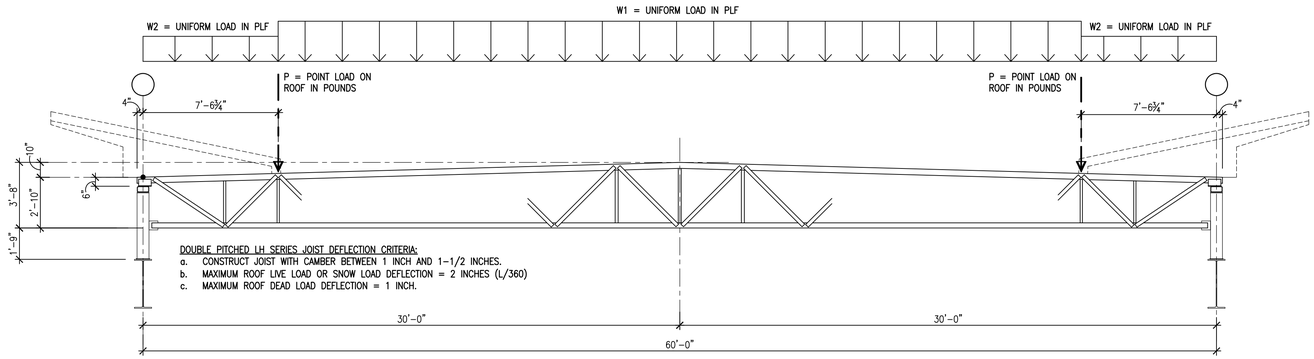
MARK	DEAD	ROOF LIVE	SNOW	WIND	ELEVATION APPLIED TO PEMB COLUMN	NOTES/COMMENTS
Lv1	+9.0 K	+5.0 K	+9.5 K	−7.0 K	133'−8" A.F.F.	
Lv2	+9.0 K	+7.1 K	+14.0 K	−9.0 K	134'−2" A.F.F.	
Lv3	+9.0 K	+7.1 K	+14.0 K	−9.0 K	134'−2" A.F.F.	
Lv4	+9.0 K	+5.0 K	+9.5 K	−7.0 K	133'−8" A.F.F.	
Lv5	+2.0 K	+2.5 K	+5.0 K	−4.5 K	115'−2" A.F.F.	

Lh# P.E.M.B. COLUMN LATERAL LOAD SCHEDULE

LOAD CASE	MARK	WIND	EARTH QUAKE	COLUMN LINE	ELEVATION APPLIED TO PEMB COLUMN	NOTES/COMMENTS
LOAD CASE 1	Lh1	+/− 2.5K	+/− 1.4K	8	133'−8" A.F.F.	
	Lh2	+/− 3.8K	+/− 2.4K	9.3	134'−2" A.F.F.	
	Lh3	+/− 3.8K	+/− 2.4K	10.7	134'−2" A.F.F.	
	Lh4	+/− 2.5K	+/− 1.4K	12	133'−8" A.F.F.	
	Lh5	+/− 3.3K	+/− 1.0K	7	129'−0" A.F.F.	
	Lh6	+/− 3.0K	+/− 1.0K	8	129'−0" A.F.F.	
	Lh7	+/− 3.0K	+/− 1.0K	12	129'−0" A.F.F.	
	Lh8	+/− 3.3K	+/− 1.0K	13	129'−0" A.F.F.	
	Lh9	NA	NA	H	134'−2" A.F.F.	
	Lh10	− 7.5K	NA	H	129'−0" A.F.F.	
	Lh11	+ 7.5K	NA	H	129'−0" A.F.F.	
LOAD CASE 2	Lh1	+ 8.0K	NA	8	133'−8" A.F.F.	
	Lh2	+ 3.3K	NA	9.3	134'−2" A.F.F.	
	Lh3	+ 3.3K	NA	10.7	134'−2" A.F.F.	
	Lh4	+ 1.9K	NA	12	133'−8" A.F.F.	
	Lh5	+ 1.5K	NA	7	129'−0" A.F.F.	
	Lh6	− 1.8K	NA	8	129'−0" A.F.F.	
	Lh7	+ 0.9K	NA	12	129'−0" A.F.F.	
	Lh8	− 2.1K	NA	13	129'−0" A.F.F.	
	Lh9	+ 10.0K	+ 3.6K	H	134'−2" A.F.F.	
	Lh10	+ 5.9K	+ 2.0K	H	129'−0" A.F.F.	
	Lh11	+ 2.6K	+ 2.0K	H	129'−0" A.F.F.	
LOAD CASE 3	Lh1	+ 1.9K	NA	8	133'−8" A.F.F.	
	Lh2	+ 3.3K	NA	9.3	134'−2" A.F.F.	
	Lh3	+ 3.3K	NA	10.7	134'−2" A.F.F.	
	Lh4	+ 8.0K	NA	12	133'−8" A.F.F.	
	Lh5	− 2.1K	NA	7	129'−0" A.F.F.	
	Lh6	+ 0.9K	NA	8	129'−0" A.F.F.	
	Lh7	− 1.8K	NA	12	129'−0" A.F.F.	
	Lh8	+ 1.5K	NA	13	129'−0" A.F.F.	
	Lh9	− 10.0K	− 3.6K	H	134'−2" A.F.F.	
	Lh10	− 5.9K	− 2.0K	H	129'−0" A.F.F.	
	Lh11	− 2.6K	− 2.0K	H	129'−0" A.F.F.	
	Lh12	− 1.0K	− 0.5K	2	115'−0" A.F.F.	

P.E.M.B. COLUMN LOAD SCHEDULE NOTES:

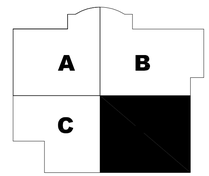
1. WIND AND EARTHQUAKE LATERAL LOADS PROVIDED IN THIS TABLE REPRESENT ULTIMATE LEVEL LOADS PER ASCE 7−16. MULTIPLY THESE LOADS BY THE APPROPRIATE FACTORS FOR LOAD COMBINATIONS: 0.6 FOR WIND OR 0.7 FOR EARTHQUAKE PER ASCE 7−16.
2. DIRECTION OF LATERAL LOADS ARE INDICATED BY ARROWS ATTACHED TO THE PLAN MARK/NOTE. FORCES NOTED AS (+/−) ACT IN BOTH DIRECTIONS OR ARE REVERSIBLE. THE POSITIVE DIRECTION, IF INDICATED ON THE PLAN, IS INDICATED THUS: (+).
3. "BUILDING" NOTATION WHEN PROVIDED AS A WIND LOAD INDICATES THAT THE P.E.M.B. FRAME SHOULD BE DESIGNED FOR THE FULL LEEWARD OR WINDWARD PRESSURE. THUS, THE CONVENTIONAL STEEL BUILDING DOES NOT SHED OR REDUCE THE WIND LOAD TO THE P.E.M.B. STRUCTURAL FRAME.
4. GRAVITY LOADS SHOWN WITH A NEGATIVE SIGN (−) INDICATE UPWARD ACTING LOADS (WIND UPLIFT, ETC).



B LH JOIST PROFILE AND LOADING DIAGRAM
SCALE: 1/4" = 1'-0"

LH-SJ JOIST LOADING SCHEDULE

MARK	DEAD			ROOF LIVE			SNOW			WIND UPLIFT		
	W1	W2	P(lb)	W1	W2	P(lb)	W1	W2	P(lb)	W1	W2	P(lb)
LH−SJ1	163 plf	163 plf	320	195 plf	65 plf	780	176 plf	0 plf	710	−40 plf	0 plf	−160
LH−SJ2	163 plf	163 plf	320	195 plf	65 plf	780	240 plf	0 plf	960	−40 plf	0 plf	−160
LH−SJ3	163 plf	163 plf	320	195 plf	65 plf	780	440 plf	0 plf	1640	−40 plf	0 plf	−160



KEY PLAN

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PROFESSIONAL ENGINEER

LICENSE EXPIRES: 06-21-2025
DRAWING ISSUED: 11-17-2023

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD
UPPER MARLBORO, MD 20772

DRAWING | DATE
[X] Bid Set | 17 NOV 2023

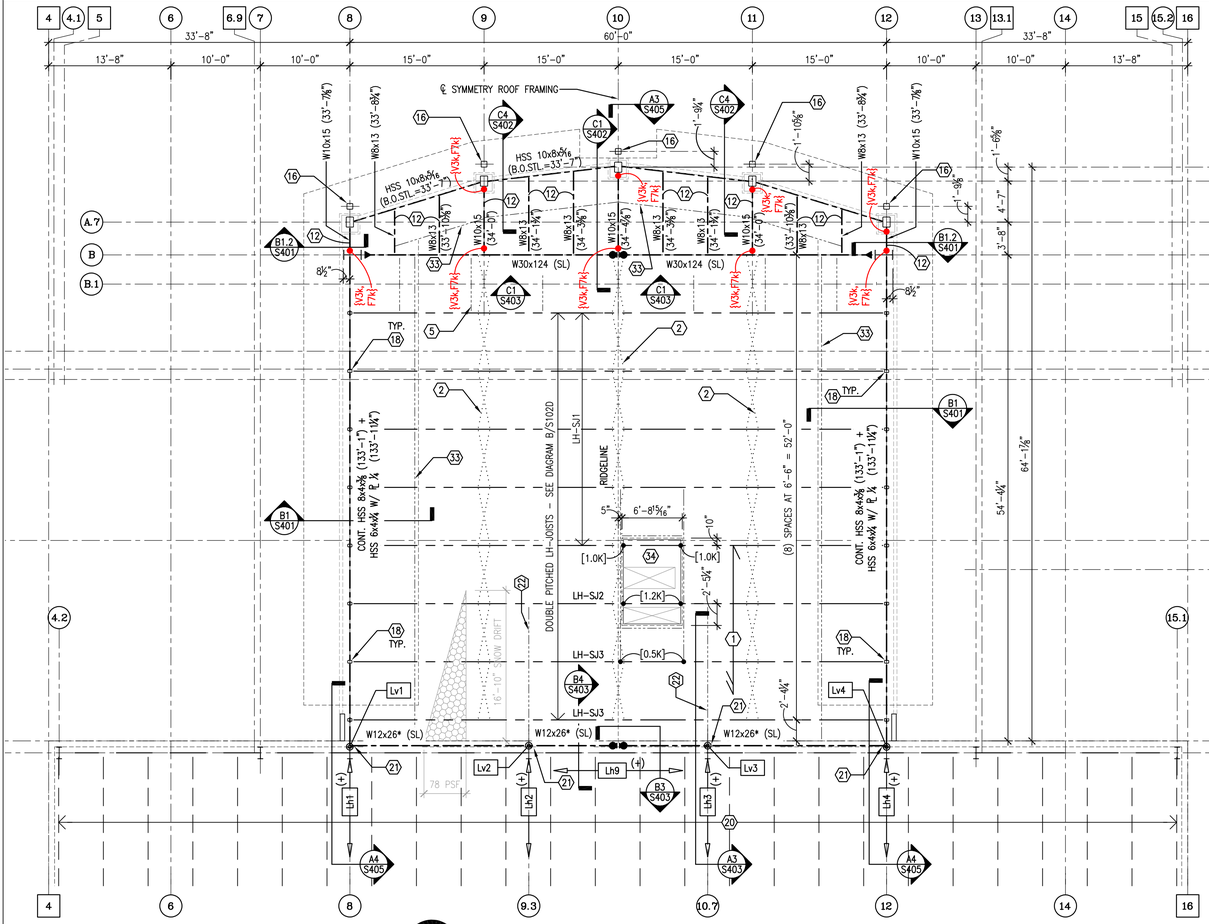
REVISIONS

FOUNDATION PLAN

S102D
OF 18 SHEETS

216118

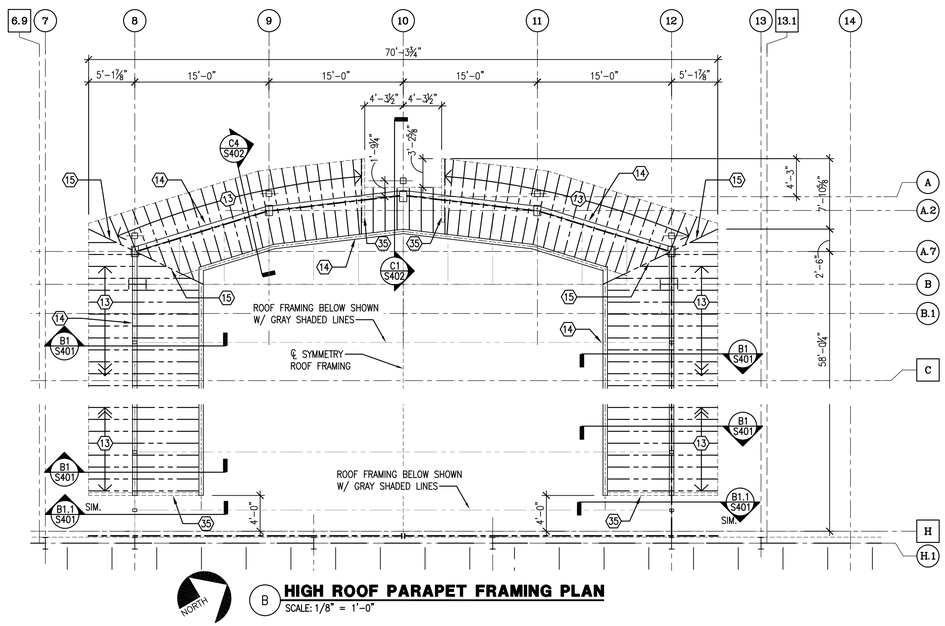
Plot Date: 11/9/2023 2:01:25 AM s101-galilee baptist plans.dwg Chris Sekol



NORTH

A HIGH ROOF FRAMING OVER FOYER

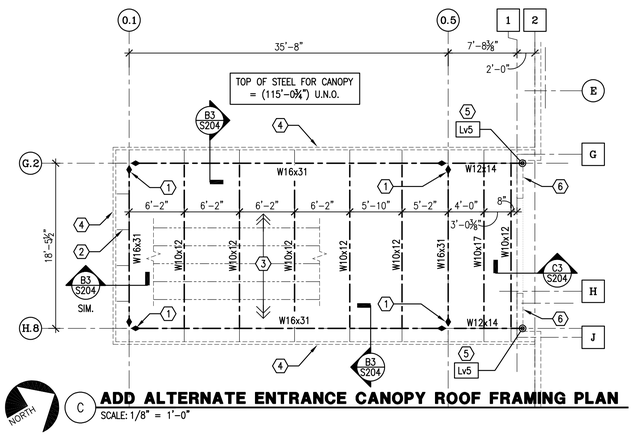
SCALE: 1/8" = 1'-0"



NORTH

B HIGH ROOF PARAPET FRAMING PLAN

SCALE: 1/8" = 1'-0"



NORTH

C ADD ALTERNATE ENTRANCE CANOPY ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN GENERAL NOTES

A. SEE SHEET S001, "STRUCTURAL GENERAL NOTES" FOR DESIGN ROOF LIVE LOADS, SNOW LOADS, AND LEGEND. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF "ARCHITECTURALLY EXPOSES STRUCTURAL STEEL" OR AESS. SEE SECTION 051200 FOR SPECIFICATIONS ON AESS.

B. SEE SHEET S101B FOR COLUMN SCHEDULE. COLUMNS ARE NOTED ON THE FOLLOWING FOUNDATION PLANS, S101A, S101B, S101C, AND S101D. ALL COLUMNS ARE TO BE SHIPPED AS ONE SINGLE PIECE WITHOUT SPLICES.

C. ROOF CONSTRUCTION: 1½" – 20 GAGE, ACOUSTICAL (NON-CELLULAR), WIDE RIB, GALVANIZED STEEL ROOF DECK OVER STEEL BAR JOISTS AND BEAMS, U.N.O. EXAMPLE PRODUCT INCLUDES VULCRAFT 1.5-BIA OR EQUAL. USE STANDARD 1.5B DECK OVER ENTRANCE CANOPY AREAS. SEE PLAN FOR LOCATIONS OF HEAVIER GAGE DECK UNDER SNOW DRIFT LOADS.

D. TOP OF STEEL ELEVATION (T.O.STL.) = 129'-0", U.N.O. ELEVATIONS PROVIDED IN PARENTHESIS ADJACENT TO BEAM SIZES, THUS (XXX'-XX") INDICATE RELATIVE HEIGHT ABOVE THE SLAB ON GRADE REFERENCE ELEVATION OF 100'-0". DUE TO LIMITED SPACE FOR TEXT ON THE PLANS, SOME ELEVATIONS ARE EXPRESSED WITHOUT THE LEADING 100'S PLACE; THUS (125'-0") WOULD BE EXPRESSED AS (25'-0").

E. ELEVATIONS SHOWN INDICATE THE FOLLOWING:

AT STEEL JOISTS: JOIST BEARING EL.
AT STEEL BEAMS: TOP OF BEAM EL.

F. SLOPING BEAMS ARE INDICATED THUS: (SL). TOP OF STEEL ELEVATIONS ARE PROVIDED IN PARENTHESES AT EACH END OF SLOPING BEAMS. TOP OF STEEL OF BEAMS LABELED WITH AN ASTERISK "*" SHALL MATCH SLOPING TOP PLANE OF ADJACENT STEEL JOISTS.

G. WORK-POINTS AT SLOPING MEMBERS ARE AT CENTERLINES OF COLUMNS, OR SUPPORTING BEAMS AND AT INSIDE FACE OF WALLS, U.N.O.

H. SIMPLE SHEAR CONNECTIONS AT THE ENDS OF BEAMS SHALL BE DESIGNED FOR HALF OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER AS PUBLISHED BY AISC, EXCEPT WHERE END REACTIONS ARE PROVIDED (IN KIPS) AT THE END OF A BEAM AS RED COLORED TEXT CONTAINED IN CURLY BRACKETS, THUS: {V10k, F10K}. LOADS SHOWN NEXT TO THE BEAM SIZE SHALL BE APPLIED TO EACH END. THE NOTATION "V" INDICATES A VERTICAL SHEAR FORCE AND "F" INDICATES A HORIZONTAL REVERSIBLE AXIAL FORCE ALONG THE AXIS OF THE MEMBER (AXIAL LOADS ARE APPLICABLE ONLY IF LISTED). FORCES ARE EXPRESSED AT SERVICE (ASD) LEVEL AND ALL LOAD COMBINATION FACTORS HAVE BEEN APPLIED.

I. —◄H SYMBOL SHOWN ON PLAN INDICATES BEAM TO COLUMN MOMENT RESISTING CONNECTION PER DETAIL B2/S403.

J. —◄►— SYMBOL SHOWN ON PLAN INDICATES A BEAM TO BEAM, MOMENT RESISTING, SPLICE CONNECTION PER DETAIL A1/S403 (LINE B) OR B3/S403 (LINE H).

K. —◄□►— SYMBOL SHOWN ON PLAN INDICATES A BEAM TO BEAM, MOMENT RESISTING, SPLICE CONNECTION PER DETAIL B4/S204.

L. LH-SERIES JOISTS SHALL HAVE 6 INCH DEEP BEARING SEATS, U.N.O.

M. JOISTS MARKED AS "SJ" SHALL BE DESIGNED FOR SNOW DRIFTING OR OTHER "NON-UNIFORM" LOADING CONDITIONS AS LISTED IN THE "SJ – JOIST LOADING SCHEDULE" ON SHEET S101D.

N. JOISTS SHALL BE DESIGNED FOR THE ADDITIONAL WEIGHT OF ROOF TOP HVAC UNITS AS PROVIDED ON THE PLANS. SEE DETAILS A1/S405 AND B1/S405 FOR TYPICAL JOIST REINFORCING REQUIRED.

O. {XX.X} NUMBERS IN CURVED BRACKETS REPRESENT DESIGN REACTIONS AS ENDS OF BEAMS THAT ARE LESS THAN HALF THE PUBLISHED UNIFORM LOAD CAPACITY OF THE BEAM.

R. PROVIDE L 5 x 3½ x 5/16 GALVANIZED BRICK LINTELS WHERE REQUIRED OVER EXTERIOR DOORS AND WINDOWS, U.N.O. PROVIDE A MIN. OF 6" BEARING LENGTH, E.E.

S. EXTERIOR COLD-FORMED STEEL (CFS) STUD WALL CONSTRUCTION: 6"-16 GA. CFS STUDS (1⅝" FLANGE) AT 16" O.C., U.N.O.

T. ALL COLD-FORMED STEEL STUD WALLS SHALL HAVE CONT. HORIZONTAL ROWS OF 1½"-16 GA. CFS U-CHANNEL BRIDGING AT 4'-0" O.C. AND ⅝" SHEATHING SHALL BE APPLIED TO BOTH SIDES OF THE WALL WHERE POSSIBLE. FASTENER SPACING ALONG EACH STUD AND AT BOUNDARY EDGES SHALL NOT EXCEED 12" O.C.

V. GRAY SHADED HATCHED WALLS WITH THE FOLLOWING NOTATION, "GSW1" OR "GSW2", IDENTIFIES LOAD-BEARING OR LATERAL RESISTING CFS STUD WALLS. REFER TO ROOF FRAMING PLAN AND DETAIL A4/S203 FOR MORE INFORMATION.

W. Lv# SQUARE BOX KEYED NOTES INDICATE LOADS TRANSFERRED TO THE P.E.M.B. COLUMN BY CONVENTIONAL STEEL BEAMS (FRAMING NOT SUPPLIED BY THE P.E.M.B.M.). SEE P.E.M.B. COLUMN LOAD SCHEDULE ON SHEET S102D.

(#) ROOF FRAMING PLAN KEYED NOTES:

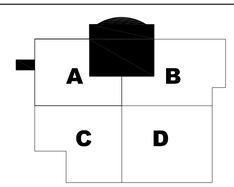
1. 1½"-18 GA. CFS ROOF DECK IN THESE JOIST BAYS.
2. ROWS OF BOLTED DIAGONAL CROSS BRIDGING PER SJI REQUIREMENTS.
3. EXTEND BEAM OVER TOP OF COLUMN TO FORM A CANTILEVER AND, WHERE SHOWN ON THE PLANS, PROVIDE A BEAM TO BEAM SPLICE PER DETAIL A1/S402.

(#) ROOF FRAMING PLAN KEYED NOTES:

4. CONT. ROWS OF X-BRIDGING BETWEEN CFS JOISTS PER B3/S203.
5. L3x3x¼ DIAGONAL BRACING ANGLES EXTENDING FROM BOTTOM FLANGE OF MOMENT FRAME GIRDER UPWARD TO TOP CHORD PANEL POINT OF LH-SERIES JOIST. EA. END OF BRACE ATTACHED BY FIELD WELDING. MAINTAIN SLOPE OF BRACE AT 45° (OR GREATER) W/ THE VERTICAL PLANE.
6. HSS 8x8x5/16 HEADER BEAM AT NEW ENTRANCE CANOPY ELEVATION (T.O.STL. = 110'-10").
7. HSS 8x6x¼ HORIZONTAL GIRT SUPPORTING WINDOWS (T.O.STL. = 124'-4½"), 6" TALL.
8. HSS 6x6x¼ HORIZONTAL GIRT SUPPORTING WINDOWS AT THE FOLLOWING ELEVATIONS, (T.O.STL. = 110'-10" AND 124'-4½").
9. C8x11.5 FRAME AROUND NEW CANOPY (T.O.STL. = 110'-10"). FULLY WELD AND MITER OUTER CORNERS OF FRAME. ALL FRAME MEMBERS TO BE GALVANIZED.
10. CANOPY INFILL JOISTS: 6"-16 GA. CFS JOISTS AT 1'-4" O.C. (T.O.JOIST = 110'-8")
11. INTERIOR ENTRY VESTIBULE CEILING JOISTS: 8"-18 GA. CFS JOISTS AT 1'-4" O.C. (T.O.JOIST = 110'-10"). PROVIDE ROWS OF X-BRIDGING AT 6'-0" O.C. PER DETAIL B3/S203.
12. ROTATE VERTICAL AXIS OF BEAM SO THAT TOP FLANGE IS ALIGNED WITH BOTTOM SURFACE OF ROOF DECK.
13. OVERHANG FRAMING, CFS JOISTS AT 1'-4" O.C. (1.625" FLANGES): TOP SURFACE, 6"-16 GA.; BOTTOM SURFACE, 3⅝"-16 GA.
14. OVERHANG FRAMING SUPPORT WALLS: 6"-16 GA. CFS STUDS AT 1'-4" O.C.
15. (2) 8"-16 GA. STUD/JOISTS BACK TO BACK (1.625" FLANGES). FASTEN WEBS BACK TO BACK W/ #10 TEK SCREWS AT 12" O.C., STAGGERED T. & B.. INTERSECTING AND SUPPORTED CFS JOIST FRAMING SHALL BE ATTACHED W/ CLARK-DIETRICH S545 CLIPS.
16. SEE C4/S403 FOR DIMENSIONS TO HSS 8x8 COLUMNS FROM HSS 10x14 COLUMNS. SEE ARCH DRAWINGS FOR DIMENSIONS OF COLUMN ENCLOSURES.
17. W8x18 AT (E) ELEVATIONS: 1 = (129'-0"), 2 = (110'-10"). DESIGN END OF BEAM CONNECTIONS FOR 4 KIPS OF REVERSIBLE AXIAL LOAD DUE TO WIND.
18. HSS 8x4x5/16 STUB COLUMN SUPPORTING LH JOIST ABOVE, CENTERED ON JOIST SEAT.
19. (2) L3 x3½ x¼ DIAGONAL BRACE (LLV) W/ ⅜" GAP. PROVIDE ½" DIA. STITCH FASTENERS AND 3x3x⅜ PLATE WASHERS AT MID-LENGTH BUT NOT GREATER THAN 4'-0" O.C.
20. CFS "Z" PURLINS AT 5'-0" O.C. +/- OR PER PEMBM DESIGN.
21. WELD W12x26 BEAM DIRECTLY TO FACE OF P.E.M.B. COLUMN FLANGE PER DETAIL A4/S403.
22. (2) L3x3x5/16 COLLECTOR BRACED WELDED TO P.E.M.B. COLUMN PER DETAIL A3/S403.
23. SIDE ENTRANCE CANOPY ROOF: 1½" – 20 GA. CFS ROOF DECK OVER 6"-16 GA. CFS JOISTS AT 1'-4" O.C. (1.625" FLANGES) + 3⅝"-18 GA. CEILING JOISTS BELOW AT 1'-4" O.C.
24. 3⅝"-16 GA. CFS STUD PARAPET AROUND LOWER CANOPY ROOF.
25. PROVIDE CONNECTION OF TUBE BEAM TO P.E.M.B. COLUMN PER DETAIL A4/S401.
26. CONNECT CONVENTIONAL STEEL BEAM TO P.E.M.B. COLUMN PER DETAIL C3/S203.
27. P.E.M.B. MAIN FRAME GIRDER BEAM.
28. CEILING SUPPORT FRAMING: 6"-16 GA. CFS STUDS AT 2'-0" O.C. W/ ⅝" GYPSUM SHEATHING CAP. FASTEN SHEATHING W/ #6 BUGLE HEAD TEK SCREWS AT 8" O.C, ALONG ALL SUPPORTS.
29. CFS STUD WALL: 3⅝" CFS STUDS (1.625" FLANGES) AT 1'-4" O.C.
30. CFS STUD WALL: SEE ARCH FOR STUD SIZE, SPACING, AND GAGE. NOTE: GAGE SHALL NOT BE LESS THAN 18 GAGE.
31. (2) 6"-18 GA. CFS STUD HEADER (1.625" FLANGES) PER DETAIL B4/S203.
32. (2) 8"-14 GA. CFS STUDS HEADER (2" FLANGES) SIMILAR TO DETAIL B4/S203. PROVIDE AT LEAST (1) JACK STUD.
33. CONT. C6x10.5, LEGS POINTING DOWN.
34. ROOF TOP MECHANICAL UNIT SUPPORT PER DETAILS A1/S405 & B1/S405. POINT LOAD LOCATIONS FOR DESIGN OF JOISTS ARE SHOWN W/ A SOLID DOT AND THE ASSOCIATED LOAD IN POUNDS IS PROVIDED ADJACENT TO EACH DOT.
35. CFS STUD WALL AT SIDE OF FRAMING: 3⅝"-16 GA. CFS STUDS AT 16" O.C. FASTEN TO SIDE OF ROOF JOISTS PER DETAIL C1/S402.
36. SEE A4/S405 FOR GIRDER BEAM SUPPORT DETAIL. SIM CONDITION NOTED.

(#) ADD ALTERNATE ENTRANCE CANOPY KEYED NOTES

1. MOMENT RESISTING (♦) CONNECTION IN TWO DIRECTIONS PER DETAIL B4/S204.
2. L3x2x¼ OUTRIGGERS AT 4'-0" O.C.
3. 6"-18 GA. CFS CEILING JOISTS AT 2'-0" O.C.
4. CFS STUD PARAPET: 3⅝" – 18 GA. STUDS AT 1'-4" O.C.
5. CONNECT CONVENTIONAL STEEL BEAM TO FLANGE OF P.E.M.B. COLUMN W/ FIELD WELDED SINGLE SHEAR PLATE PER DETAIL C3/S203.
6. GIRT WALL BY P.E.M.B.M.



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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD
UPPER MARLBORO, MD 20772

DRAWING	DATE
[X] Bid Set	17 NOV 2023

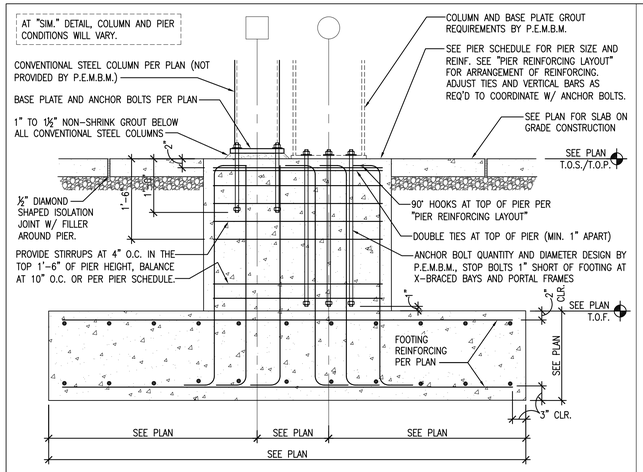
REVISIONS

FOYER ROOF FRAMING PLAN

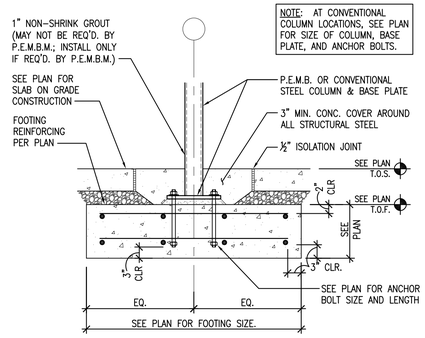
S102
OF 18 SHEETS

216118

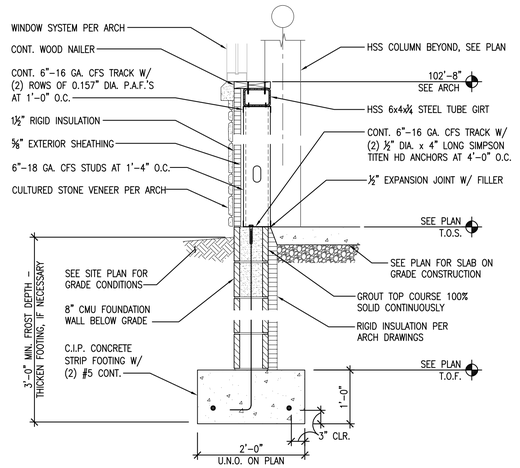
Plot Date: 11/24/2023 1:09:08 AM s101-galilee baptist plans.dwg Chris Sekol



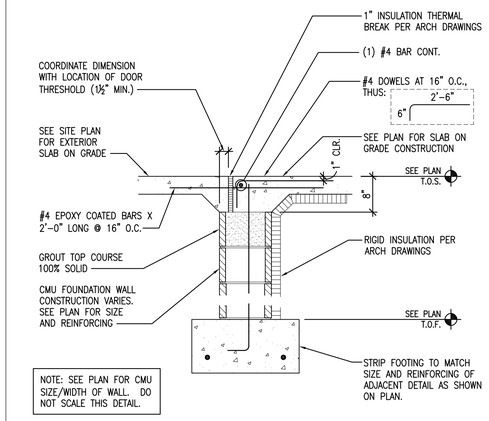
C4 **DOUBLE COLUMN ON SHARED PIER/FOOTING (X-BRACE BAY)**
SCALE: 3/4"=1'-0"



C3 **TYPICAL SPREAD FOOTING DETAIL**
SCALE: 3/4"=1'-0"



C2 **FOUNDATION - 6" CFS KNEE WALL AT STOREFRONT**
SCALE: 3/4" = 1'-0"



C1 **FOUNDATION DETAIL AT ENTRANCE**
SCALE: 3/4" = 1'-0"

C

B4 **PIER/FOOTING DETAIL TIE ROD LOCATIONS**
SCALE: 3/4"=1'-0"

B3 **CMU FOUNDATION AT PLATFORM**
SCALE: 3/4" = 1'-0"

B2 **CMU FOUNDATION (WALL PANEL)**
SCALE: 3/4"=1'-0"

B1 **CMU FOUNDATION (METAL PANEL OVER STUDS)**
SCALE: 3/4" = 1'-0"

B

ANCHOR BOLT SCHEDULE		
BOLT ø	HOLE ø	PLATE WASHER (MIN. SIZE)
¾"	1 1/16"	¼" THICK x 2"ø OR SQ.
⅞"	1 3/16"	5/16" THICK x 2½"ø OR SQ.
1"	1 5/16"	⅜" THICK x 3"ø OR SQ.

A4 **TYPICAL ANCHOR ROD DETAIL**
SCALE: NOT DRAWN TO SCALE

A3 **TYPICAL REINFORCED CMU WALL CONSTRUCTION**
SCALE: 3/4" = 1'-0"

A2 **TYPICAL FOOTING STEP DETAIL**
SCALE: N.T.S.

A1 **TYPICAL SLAB ON GRADE DETAILS**
SCALE: N.T.S.

4 3 2 1

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STATE OF MARYLAND
CHRISTOPHER P. SEKOL
No. 26210
PROFESSIONAL ENGINEER

LICENSE EXPIRES: 06-21-2025
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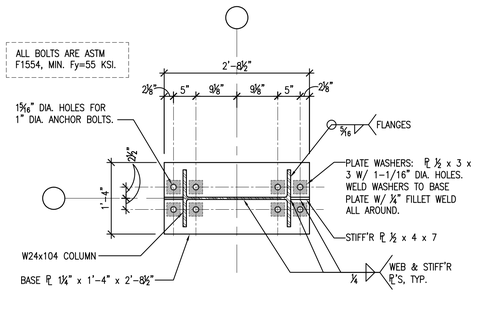
REVISIONS

FOUNDATION DETAILS

S201
OF 18 SHEETS

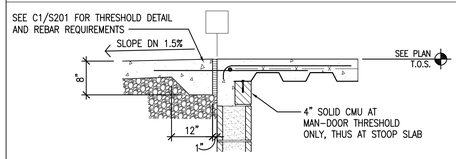
216118

Plot Date: 11/9/2023 2:03:17 AM s401-galilee baptist roof details.dwg Chris Sekol

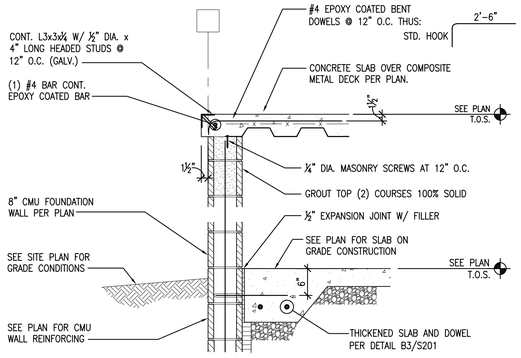


PLAN VIEW: W24 MOMENT BASE PLATE DETAIL

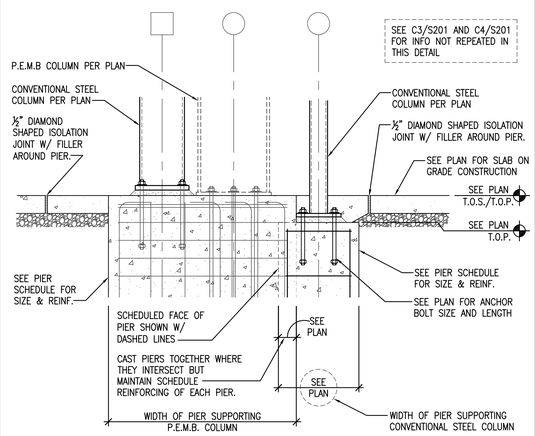
C4 FOUNDATION DETAIL AT W24 MOMENT BASE
SCALE: 3/4"=1'-0"



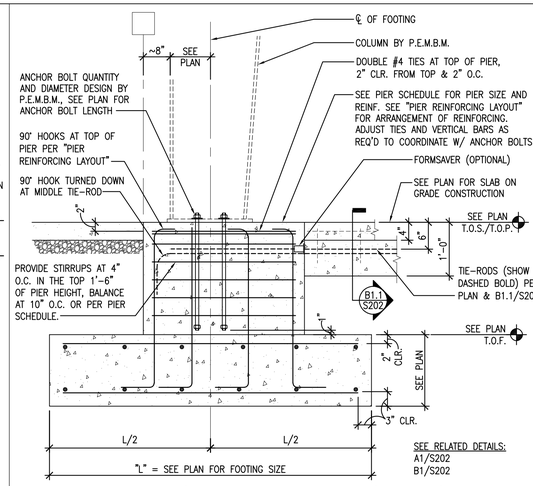
B4.1 - DETAIL AT EXTERIOR STOOP SLAB



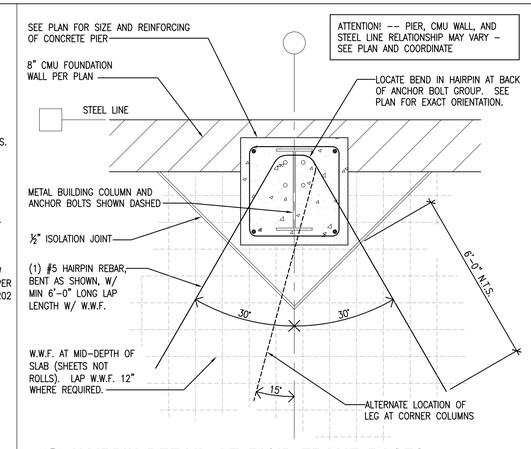
B4 PLATFORM CONSTRUCTION - EXT. THRESHOLD
SCALE: 3/4" = 1'-0"



C3 DOUBLE PIER AT VARYING HEIGHTS CAST TOGETHER
SCALE: 3/4"=1'-0"

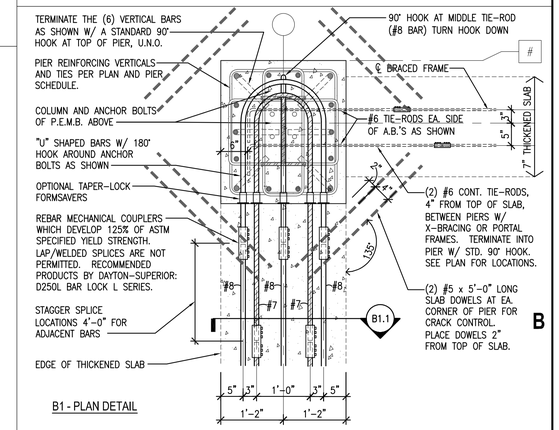


C2 PIER/FOOTING DETAIL TIE ROD LOCATIONS
SCALE: 3/4"=1'-0"



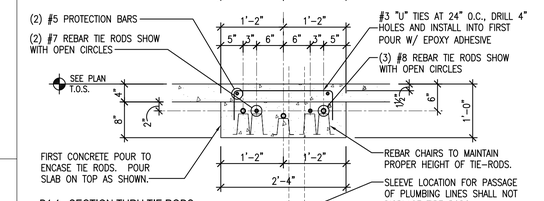
C1 HAIRPIN DETAIL AT RIGID FRAME BASES
SCALE: 3/4" = 1'-0"

C



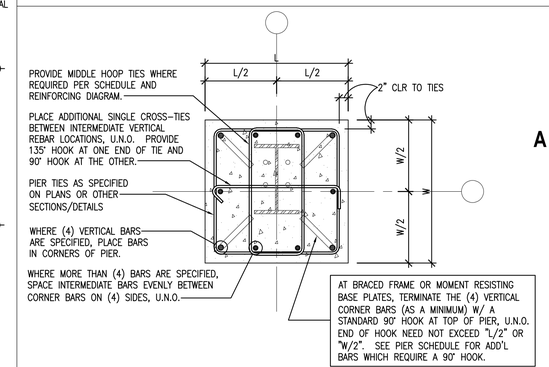
B1 - PLAN DETAIL

B



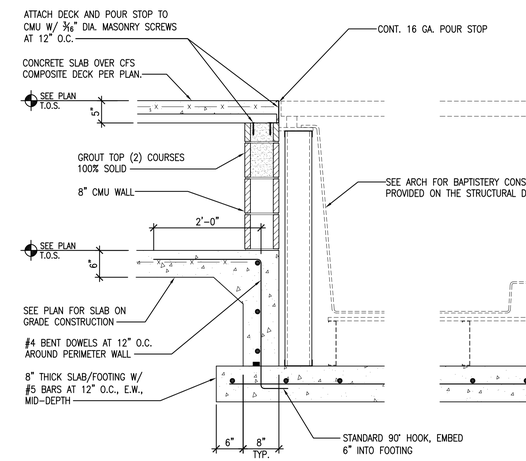
B1.1 - SECTION THRU TIE RODS

B1 PEMB BASE RESTRAINT W/ TIE-RODS
SCALE: 3/4" = 1'-0"

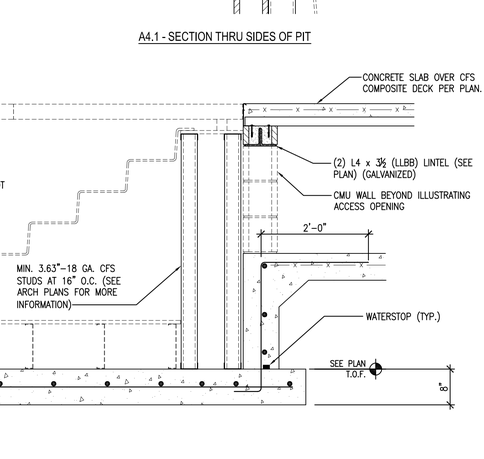


A1 TYPICAL CONCRETE PIER CONSTRUCTION
SCALE: 3/4"=1'-0"

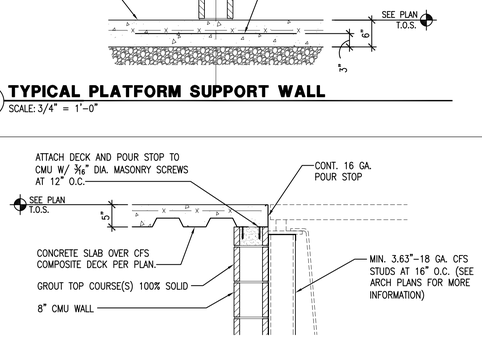
A



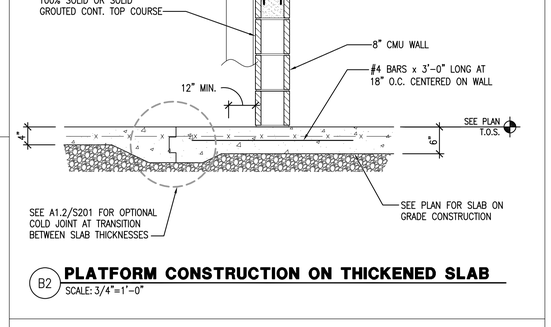
A4 SECTION THRU BAPTISTERY
SCALE: 3/4" = 1'-0"



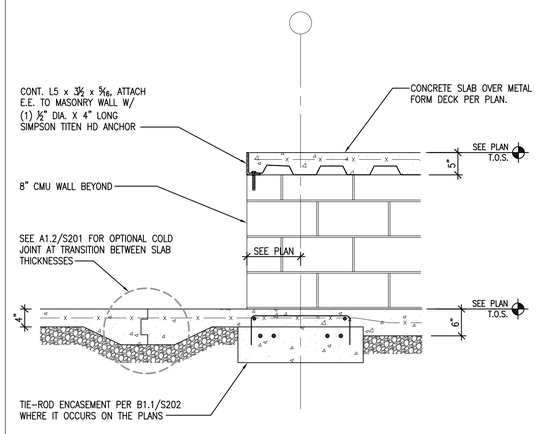
A4.1 - SECTION THRU SIDES OF PIT



B3 TYPICAL PLATFORM SUPPORT WALL
SCALE: 3/4" = 1'-0"



B2 PLATFORM CONSTRUCTION ON THICKENED SLAB
SCALE: 3/4"=1'-0"



A2 TYPICAL FRONT OF PLATFORM CONSTRUCTION
SCALE: 3/4" = 1'-0"

A3 SECTION THRU BAPTISTERY
SCALE: 3/4" = 1'-0"

1 2 3 4

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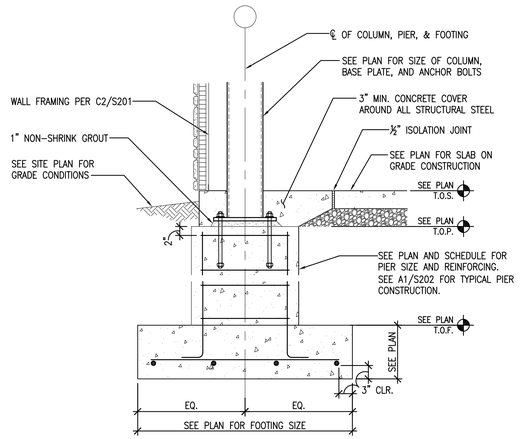
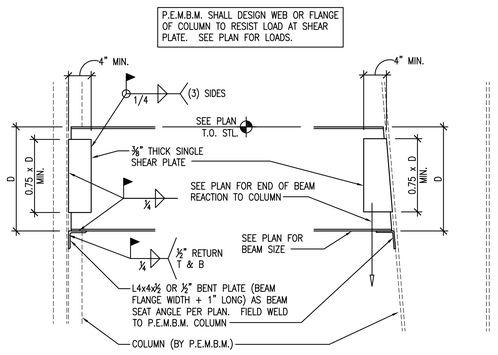
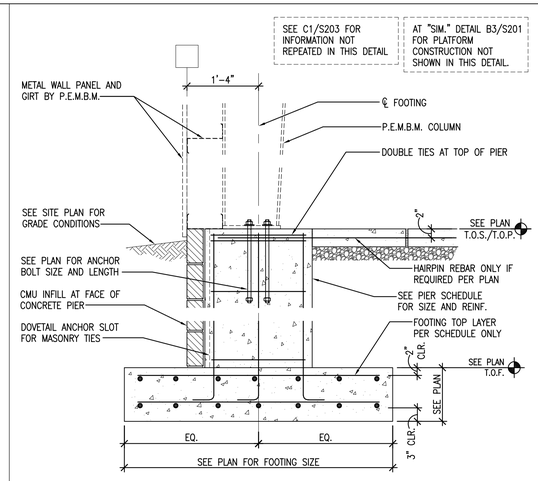


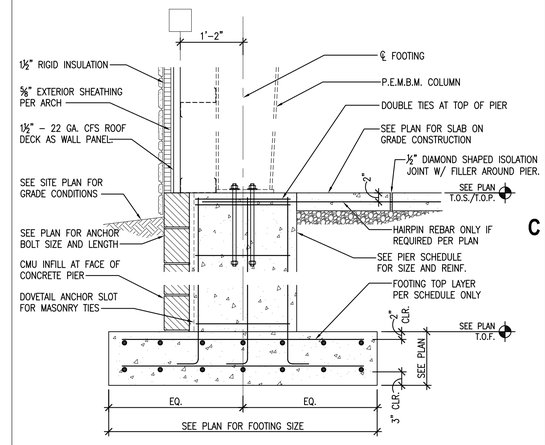
C4 **PIER/FOOTING DETAIL**
SCALE: 3/4" = 1'-0"



C3 **STEEL BEAM CONX. TO P.E.M.B. COLUMN**
SCALE: 3/4"=1'-0"

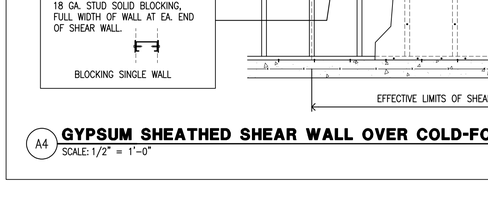


C2 **PEMB COLUMN FOUNDATION - HAIRPINS**
SCALE: 3/4"=1'-0"



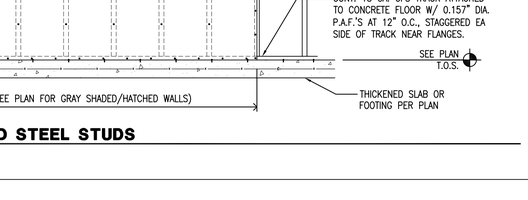
C1 **PEMB COLUMN FOUNDATION - HAIRPINS**
SCALE: 3/4"=1'-0"

C

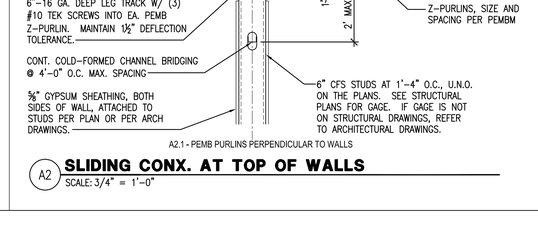


DET 01: PLAN SECTION-JAMB CONX. TO HEADER

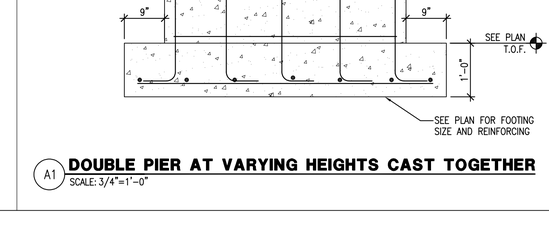
B4 **TYPICAL CFS STUD WALL HEADER/JAMB DETAIL**
SCALE: 1-1/2" = 1'-0"



B3 **COLD-FORMED STEEL JOIST X-BRIDGING**
SCALE: 3/4"=1'-0"



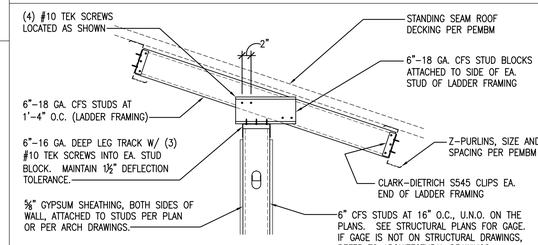
B2 **TOP OF STEEL COLUMN BRACING DETAILS**
SCALE: 3/4"=1'-0"



B1 **EXTERIOR CANOPY PIER**
SCALE: 3/4"=1'-0"

B

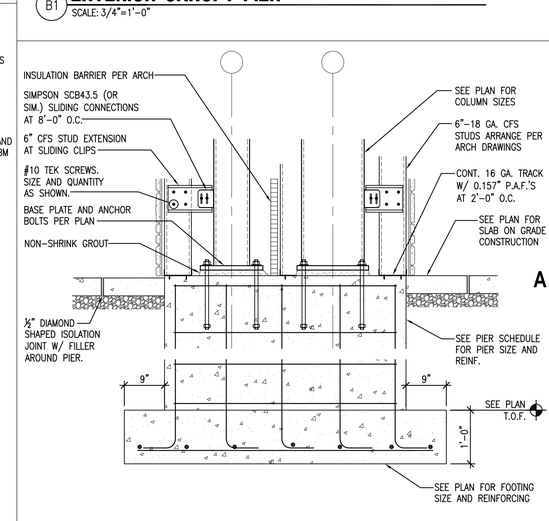
A4 **GYPSUM SHEATHED SHEAR WALL OVER COLD-FORMED STEEL STUDS**
SCALE: 1/2" = 1'-0"



A2.2 - PEMB PURLINS PARALLEL TO WALLS

A2.1 - PEMB PURLINS PERPENDICULAR TO WALLS

A2 **SLIDING CONX. AT TOP OF WALLS**
SCALE: 3/4" = 1'-0"



A1 **DOUBLE PIER AT VARYING HEIGHTS CAST TOGETHER**
SCALE: 3/4"=1'-0"

A

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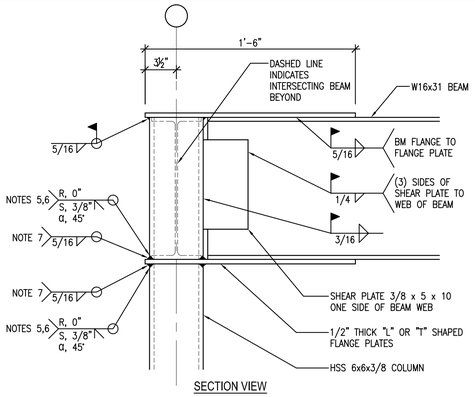
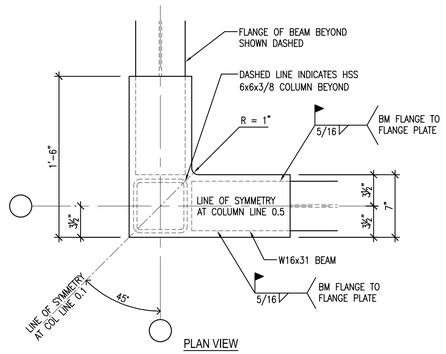


SECTION VIEW

NOTES ON WELDING REQUIREMENTS

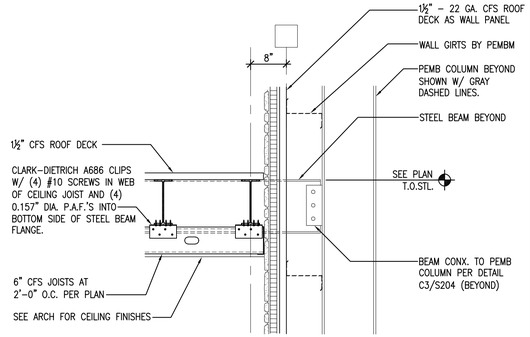
1. PREPARE THE TUBE WALLS WITH A 45° BEVEL WITH GROOVE RADIUS TO MAXIMIZE EFFECTIVE THROAT THICKNESS.
2. FIT-UP THE FLANGE-PLATE AND TUBE WITH A MINIMUM ROOT OPENING.
3. PRE-HEAT THE SPECIMENS AS REQUIRED BY AWS SPECIFICATIONS.
4. PEPARE SURFACES FOR WELDING AS REQUIRED BY AWS SPECIFICATIONS.
5. PLACE TEMPORARY TACK WELDS TO MAINTAIN ALIGNMENT OF SPECIMENS DURING PENETRATION WELDING. GRIND AWAY ALL TACK WELDS DURING THE PENETRATION WELDING PROCESS. DO NOT FILL OVER TACK WELDS.
6. PLACE PARTIAL PENETRATION WELDS ON TUBE WALLS (DEMAND CRITICAL)
7. GRIND SMOOTH PARTIAL PENETRATION WELD BEFORE PLACING THE 5/16" REINFORCING FILLET WELDS.



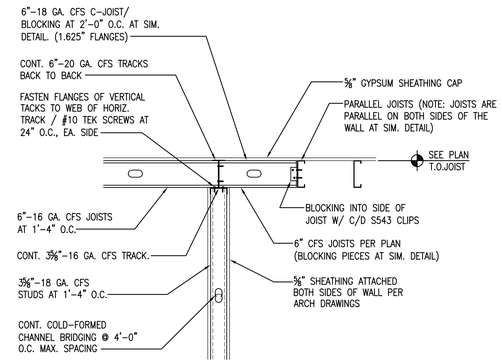
PLAN VIEW

B4 **BEAM/COLUMN MOMENT CONNECTION**
SCALE: 1 1/2" = 1'-0"

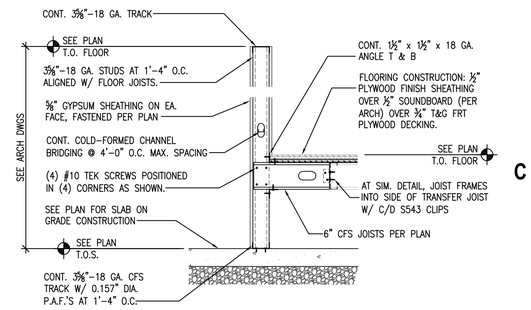
SEE ARCHITECTURAL BUILDING SECTIONS AND DETAILS FOR METAL BUILDING CONDITIONS ABOVE.



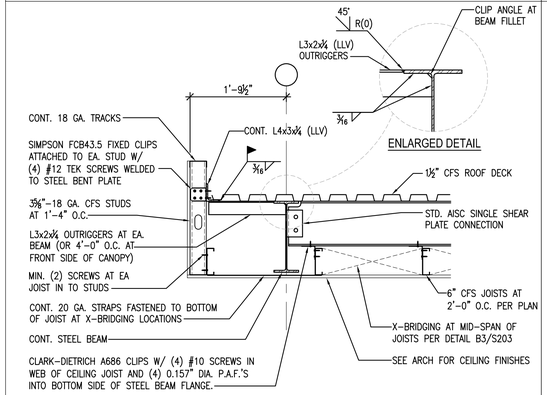
C3 **ALT ADD: SIDE ENTRANCE CANOPY SECTION**
SCALE: 3/4" = 1'-0"



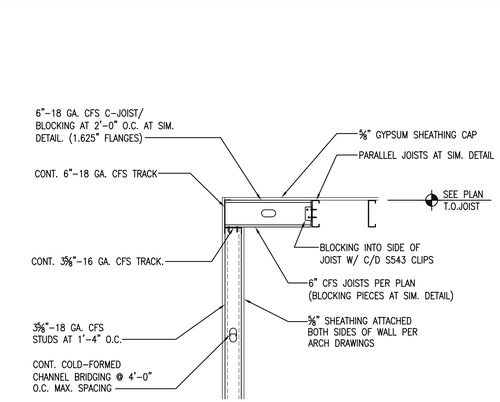
C2 **CFS JOIST CEILING FRAMING**
SCALE: 3/4"=1'-0"



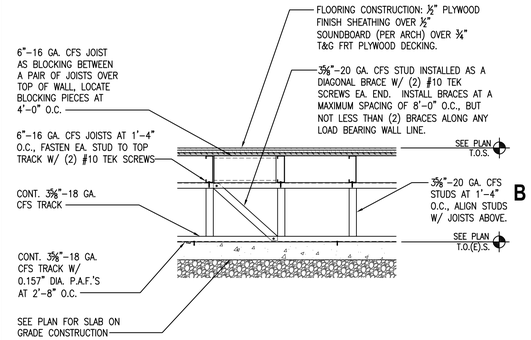
C1 **PLATFORM FLOOR FRAMING**
SCALE: 3/4"=1'-0"



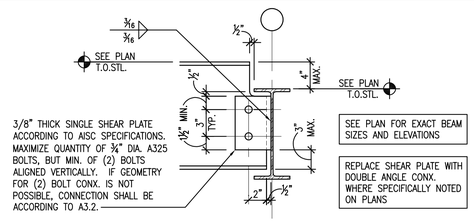
B3 **ALT ADD: SIDE ENTRANCE CANOPY SECTION**
SCALE: 3/4" = 1'-0"



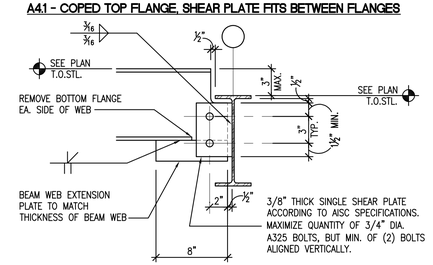
B2 **CFS JOIST CEILING FRAMING**
SCALE: 3/4"=1'-0"



B1 **TYPICAL PLATFORM SUPPORT WALL**
SCALE: 3/4" = 1'-0"



A4.1 - COPED TOP FLANGE, SHEAR PLATE FITS BETWEEN FLANGES



A4.2 - COPED TOP FLANGE, EXTENDED BEAM WEB

NOTE: GIRDER BEAMS WHICH CARRY LOAD OF OTHER TRIBUTARY BEAMS SHALL HAVE DOUBLE ANGLE CONNECTIONS AND NOT SHEAR PLATES.

A4 **TYPICAL COPED BEAM TO BEAM CONX'S**
SCALE: 1-1/2"=1'-0"

NOTES ON WELDING REQUIREMENTS

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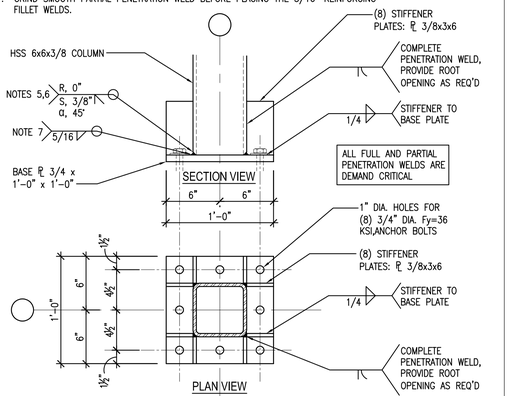
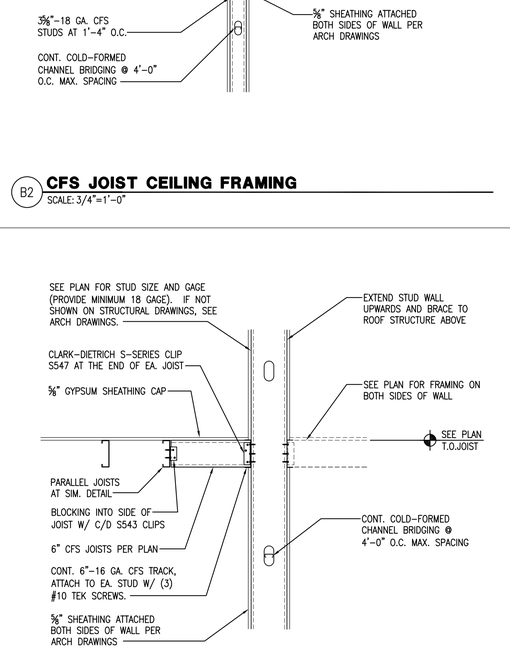
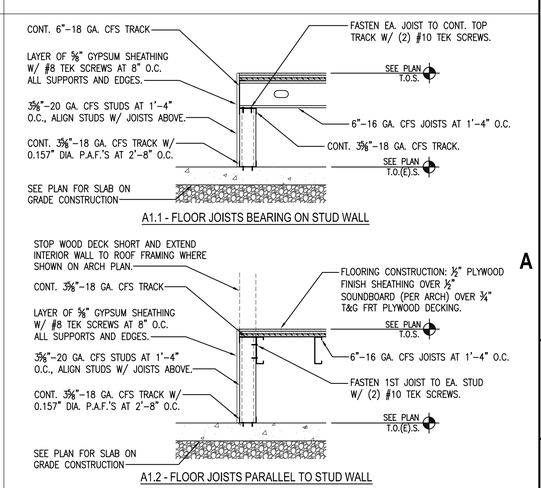


PLAN VIEW

A3 **MOMENT BASE PLATE**
SCALE: 1 1/2" = 1'-0"



A2 **CFS JOIST CEILING FRAMING**
SCALE: 3/4"=1'-0"



A1 **TYPICAL EDGE PLATFORM CONSTRUCTION**
SCALE: 3/4" = 1'-0"

2 1 A B C

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UPPER MARLBORO, MD 20772

DRAWING	DATE
[X] Bid Set	17 NOV 2023

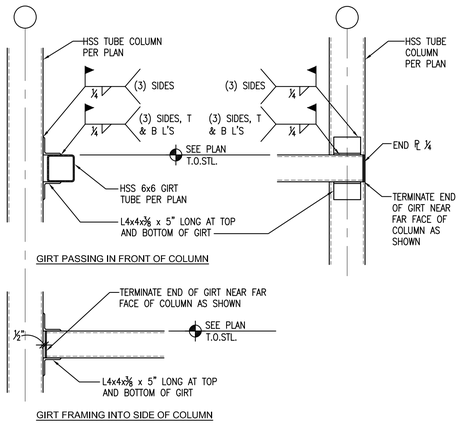
REVISIONS

FOUNDATION DETAILS

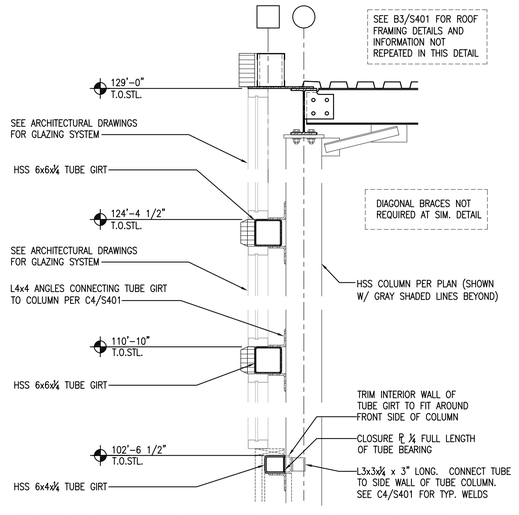
S204
OF 18 SHEETS

216118

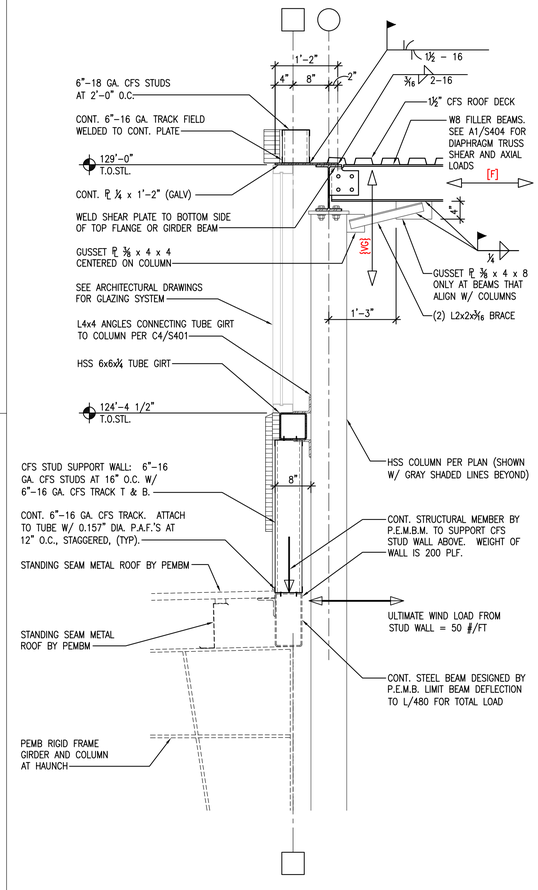
Plot Date: 11/9/2023 2:06:05 AM s401-galilee baptist roof details.dwg Chris Sekol



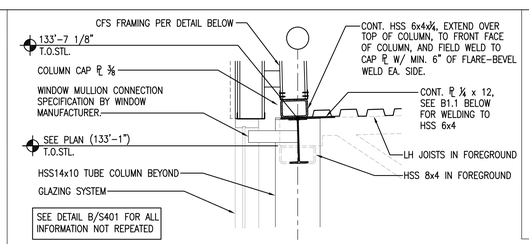
C4 **HSS TUBE GIRT FRAMING INTO COLUMNS**
SCALE: 3/4"=1'-0"



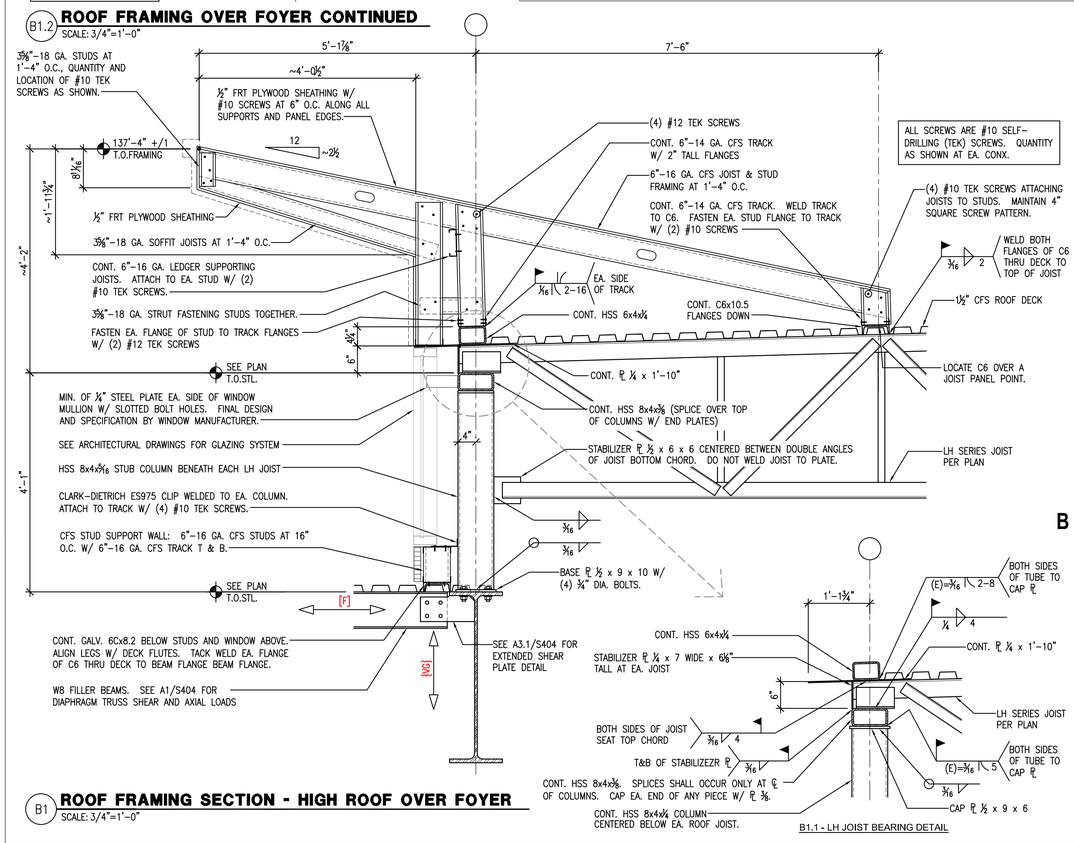
B4 **ROOF FRAMING SECTION: STORE FRONT WALL**
SCALE: 3/4"=1'-0"



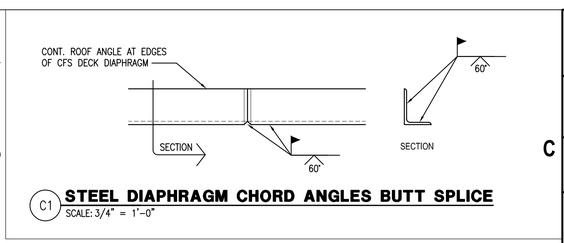
B3 **ROOF FRAMING SECTION - MID-LEVEL ROOF**
SCALE: 3/4"=1'-0"



B1.2 **ROOF FRAMING OVER FOYER CONTINUED**
SCALE: 3/4"=1'-0"



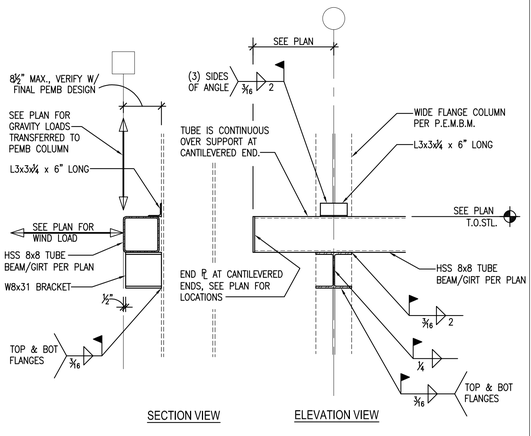
B1 **ROOF FRAMING SECTION - HIGH ROOF OVER FOYER**
SCALE: 3/4"=1'-0"



C1 **STEEL DIAPHRAGM CHORD ANGLES BUTT SPLICE**
SCALE: 3/4" = 1'-0"

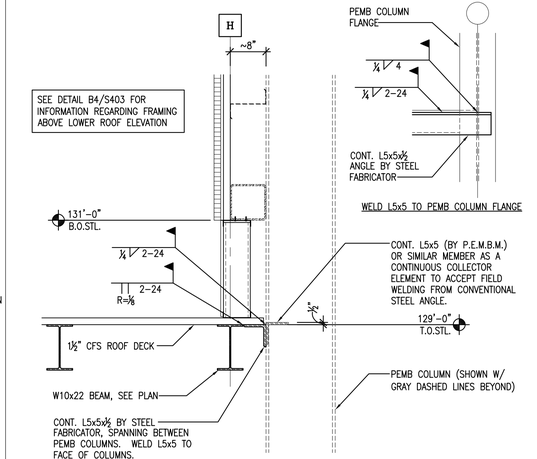
C

B



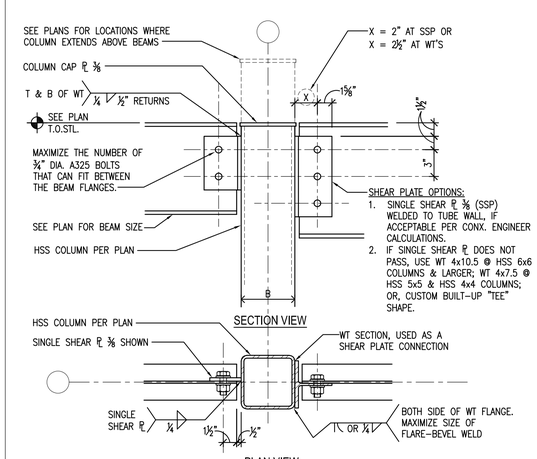
A4 **TUBE BEAM/GIRT CONX. TO PEMB COLUMN**
SCALE: 3/4" = 1'-0"

4



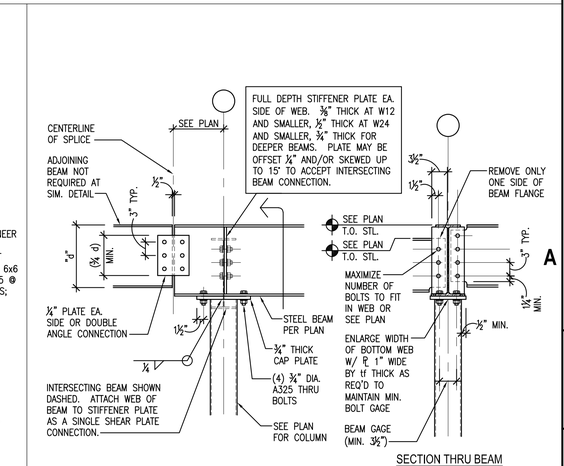
A3 **JOISTS BEARING ON ROOF GIRDER BEAM**
SCALE: 3/4" = 1'-0"

3



A2 **BEAM TO COLM CONX. USING WT SHEAR PLATE**
SCALE: 1-1/2" = 1'-0"

2



A1 **CANTILEVERED BEAM CONSTRUCTION**
SCALE: 3/4" = 1'-0"

A

1

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FRAMING DETAILS

S401
OF 18 SHEETS

216118

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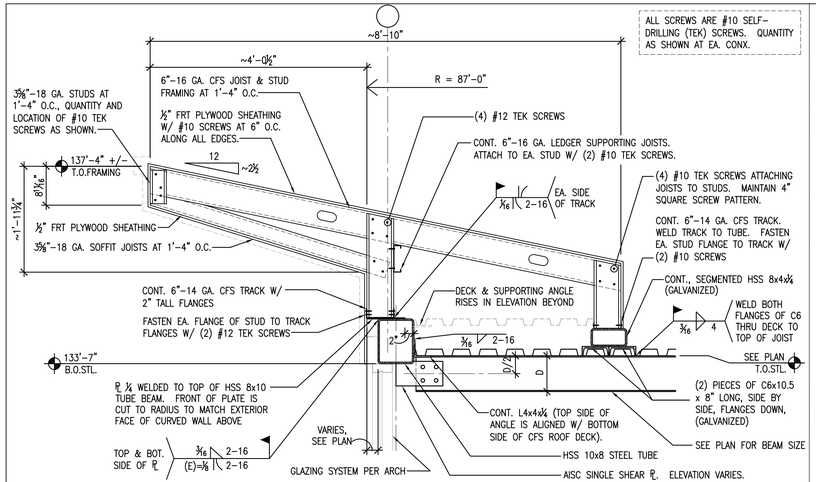
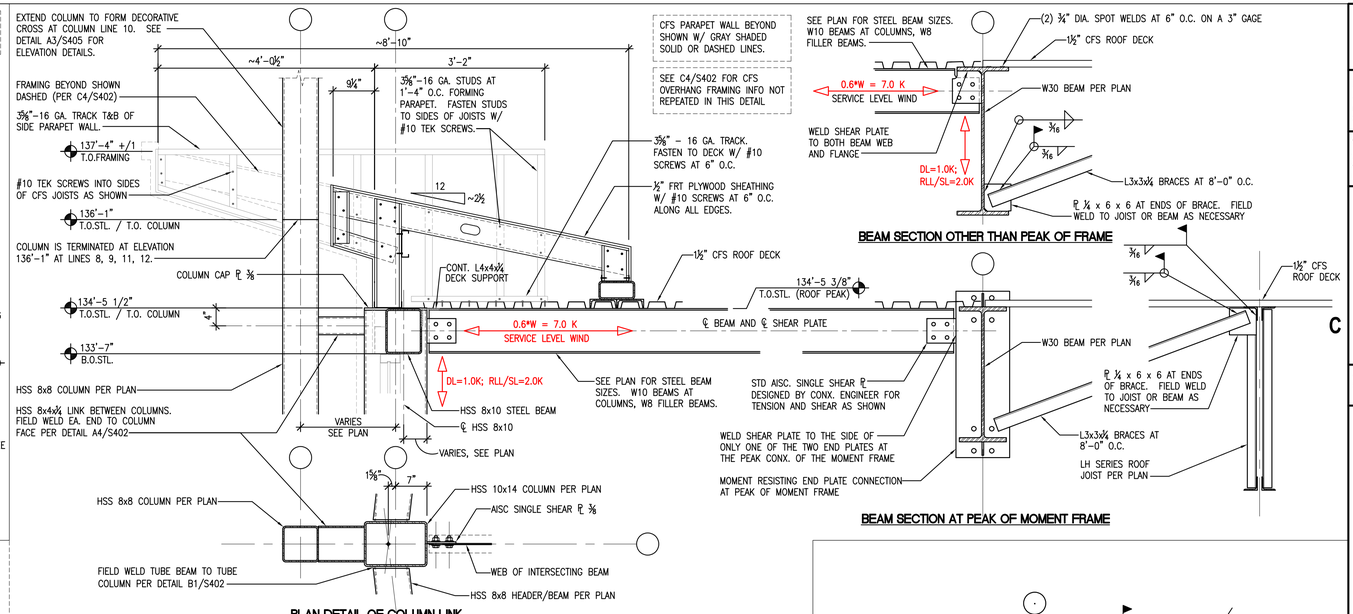


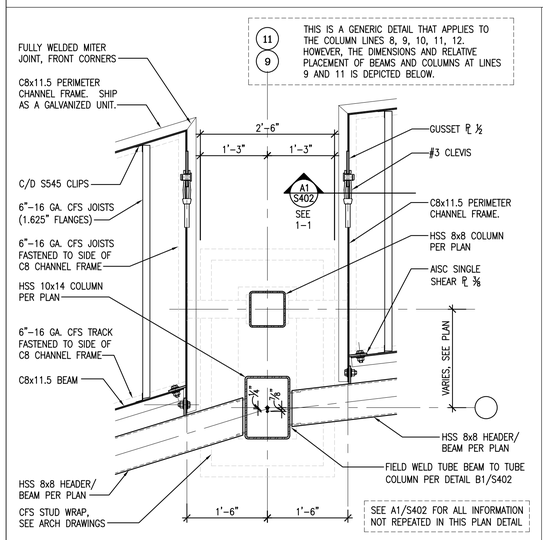
ALL SCREWS ARE #10 SELF–DRILLING (TEK) SCREWS. QUANTITY AS SHOWN AT EA. CONX.

C4 ROOF FRAMING SECTION - HIGH ROOF OVER FOYER
SCALE: 3/4"=1'–0"

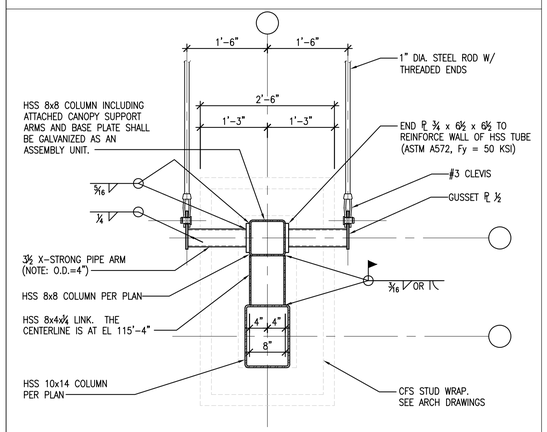


PLAN DETAIL OF COLUMN LINK

C1 ROOF FRAMING AT FRONT WALL AT CROSS STRUCTURE, COL LINE 10
SCALE: 3/4"=1'–0"

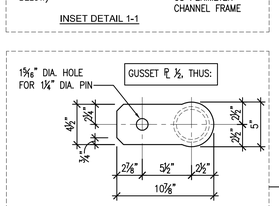


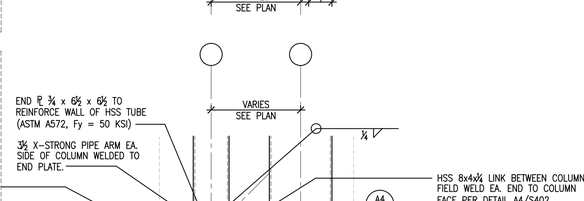
B4 PLAN VIEW OF CANOPY FRAMING AROUND COLUMNS
SCALE: 3/4"=1'–0"

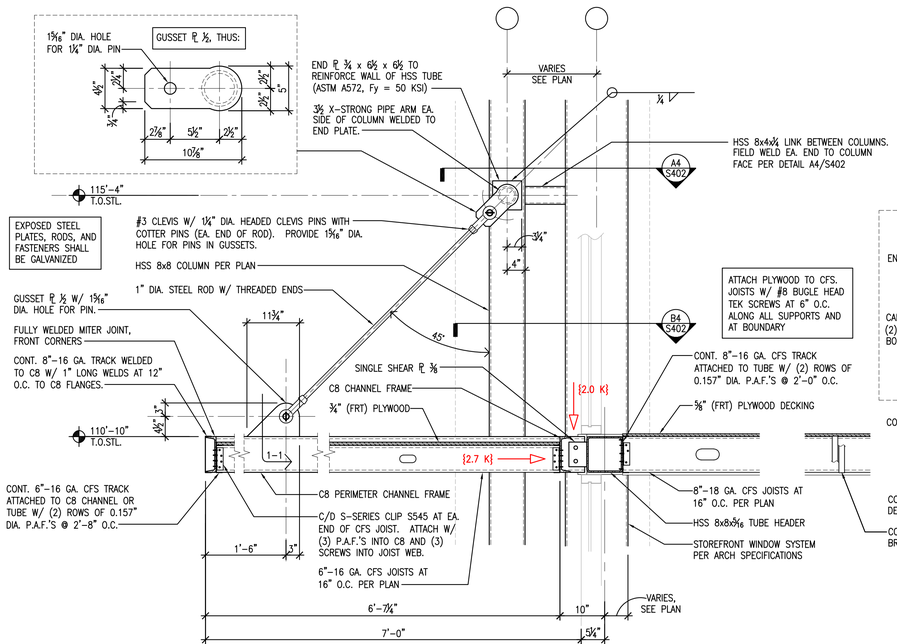


A4 PLAN VIEW OF CANOPY SUPPORT ARMS
SCALE: 3/4"=1'–0"

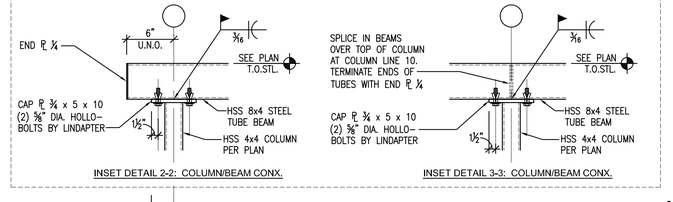
NOTES, ABBREVIATIONS:
1. C/D = CLARK/DIETRICH OR SIMILAR LIGHT GAGE CLIP.
2. ALL SELF–TAPPING SCREWS ARE #10, U.N.O.
3. ALL POWDER ACTUATED FASTENERS (P.A.F.'S), 0.157" DIA.

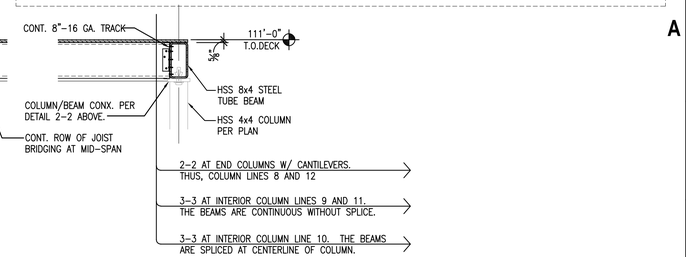






A1 FRONT CANOPY SECTION
SCALE: 3/4"=1'–0"





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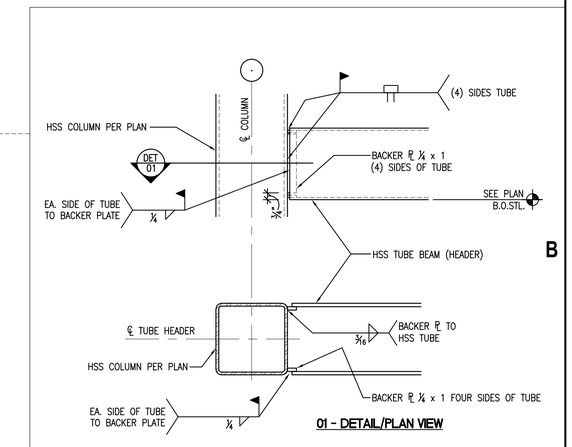

B1 HSS TUBE HEADER CONX. TO STEEL COLUMN
SCALE: 1–1/2"=1'–0"

B

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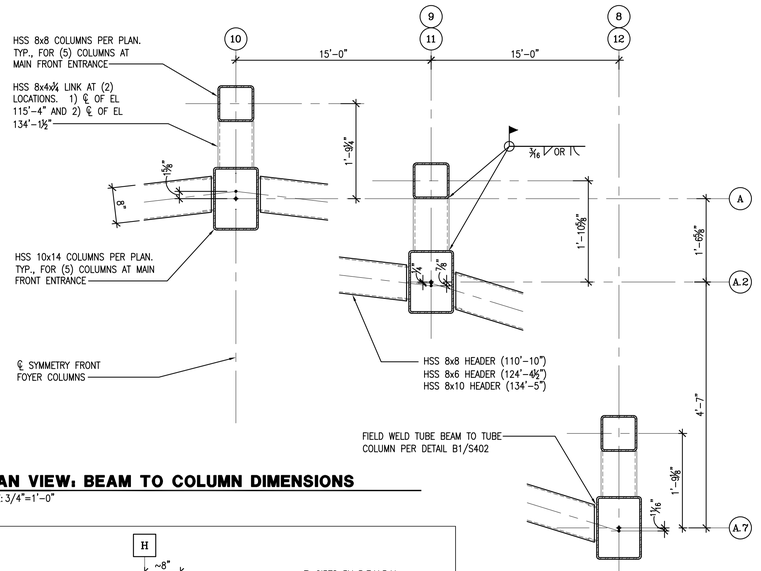
S402
OF 18 SHEETS

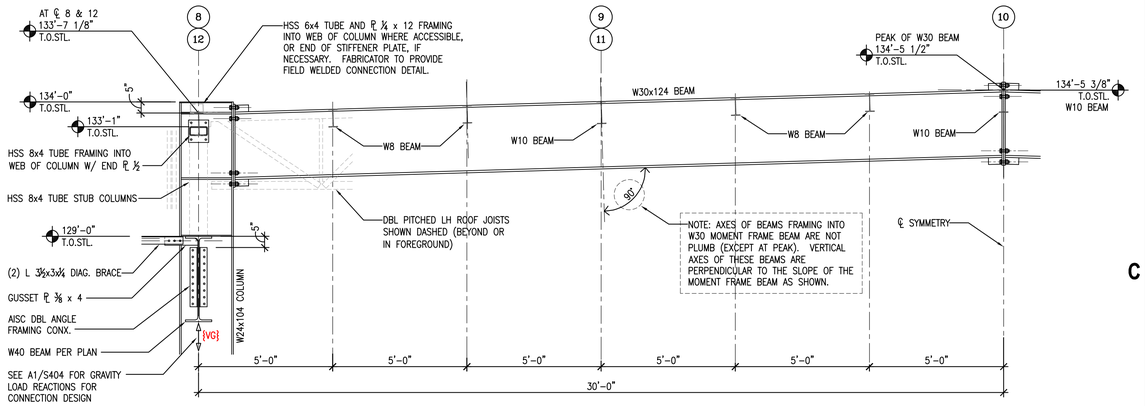
216118

Plot Date: 11/9/2023 2:08:18 AM s401-galilee baptist roof details.dwg Chris Sekol

4 3 2 1



C4 **PLAN VIEW: BEAM TO COLUMN DIMENSIONS**
SCALE: 3/4"=1'-0"



C1 **ELEVATION VIEW OF MOMENT FRAME, COLUMN LINE B**
SCALE: 3/4"=1'-0"

C

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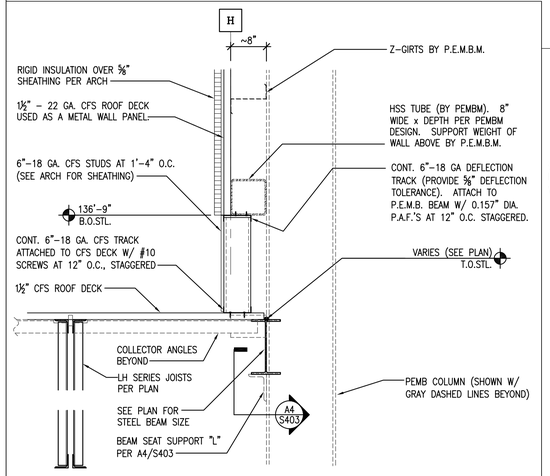
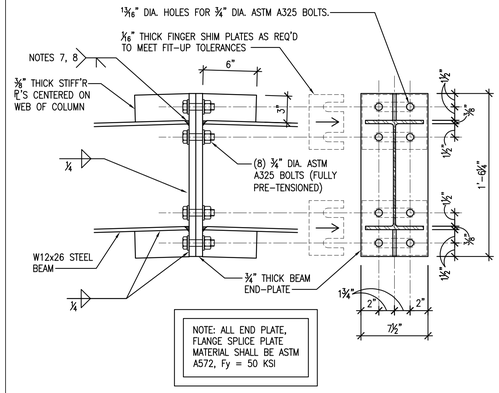
S403
OF 18 SHEETS

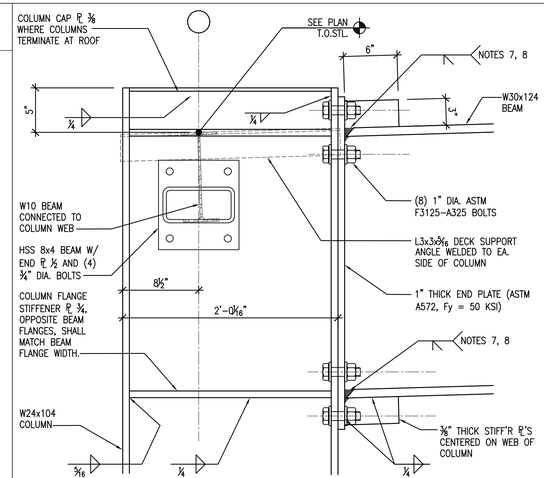
216118



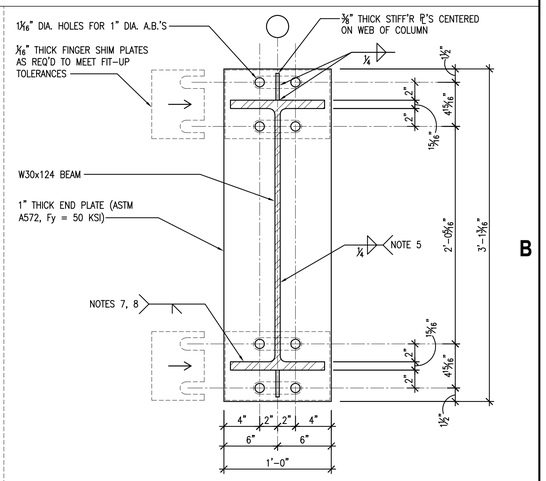
B4 **JOISTS BEARING ON ROOF GIRDER BEAM**
SCALE: 3/4" = 1'-0"



B3 **BEAM TO BEAM MOMENT SPLICE**
SCALE: 1-1/2" = 1'-0"

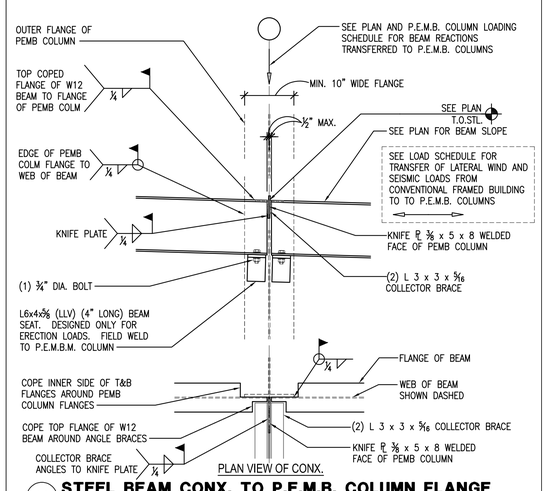


B2 **BEAM TO COLUMN MOMENT FRAME CONX.**
SCALE: 1-1/2" = 1'-0"

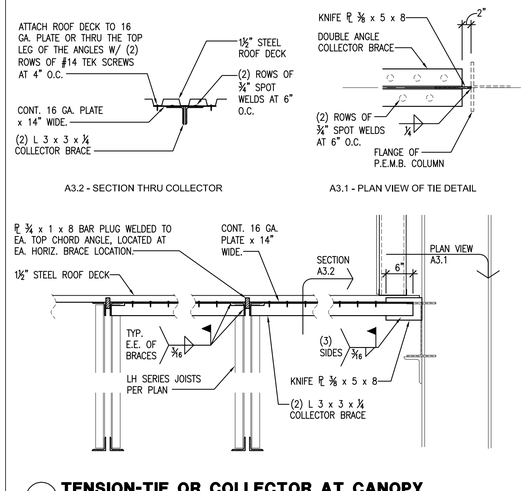


B1 **MOMENT FRAME BEAM END PLATE DETAIL**
SCALE: 1-1/2" = 1'-0"

B



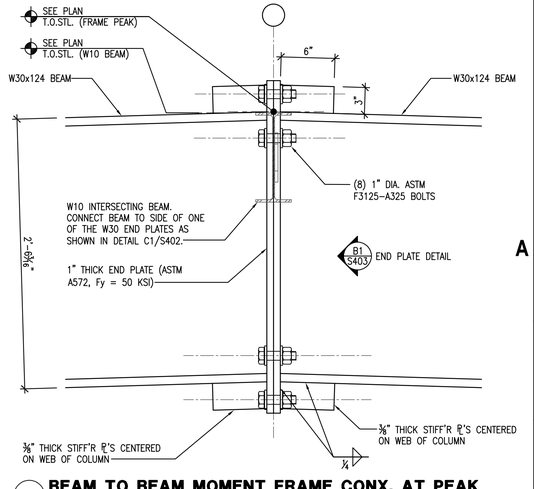
A4 **STEEL BEAM CONX. TO P.E.M.B. COLUMN FLANGE**
SCALE: 3/4" = 1'-0"



A3 **TENSION-TIE OR COLLECTOR AT CANOPY**
SCALE: 3/4" = 1'-0"

NOTES ON WELDING REQUIREMENTS

1. PREPARE THE BEAM FLANGES WITH A 45° FULL-DEPTH BEVEL
2. FIT-UP THE END-PLATE AND BEAM WITH A MINIMUM ROOT OPENING.
3. PRE-HEAT THE SPECIMENS AS REQUIRED BY AWS SPECIFICATIONS.
4. PEPARE SURFACES FOR WELDING AS REQUIRED BY AWS SPECIFICATIONS.
5. PLACE THE WEB FILLET WELDS FIRST.
6. PLACE THE 5/16" BACKING FILLET WELDS (BACKING IS FOR THE FULL PENETRATION FLANGE WELDS TO THE END-PLATE) ON THE WEB SIDE OF THE BEAM FLANGES. PLACE THESE WELDS AFTER THE WEB HAS BEEN WELDED.
7. BEFORE PLACING THE FULL PENETRATION FLANGE WELDS, BACKGOUGE THE ROOT OF THE BEVEL TO REMOVE ANY CONTAMINANTS FROM THE 5/16" BACKER FILLET WELDS.
8. PLACE THE FULL PENETRATION FLANGE WELDS LAST

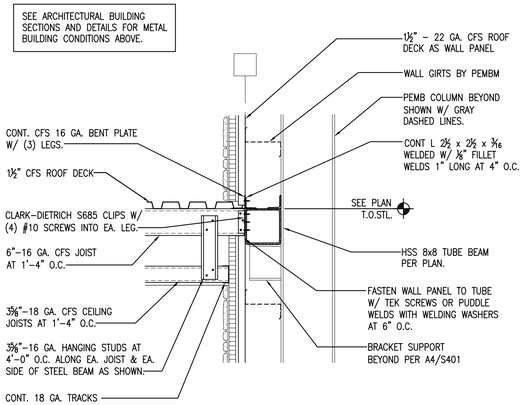


A1 **BEAM TO BEAM MOMENT FRAME CONX. AT PEAK**
SCALE: 1-1/2" = 1'-0"

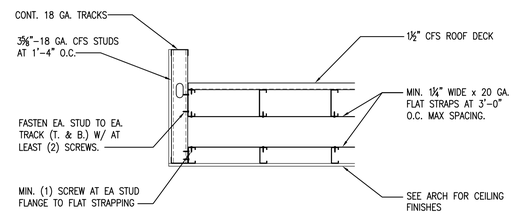
A

4 3 2 1

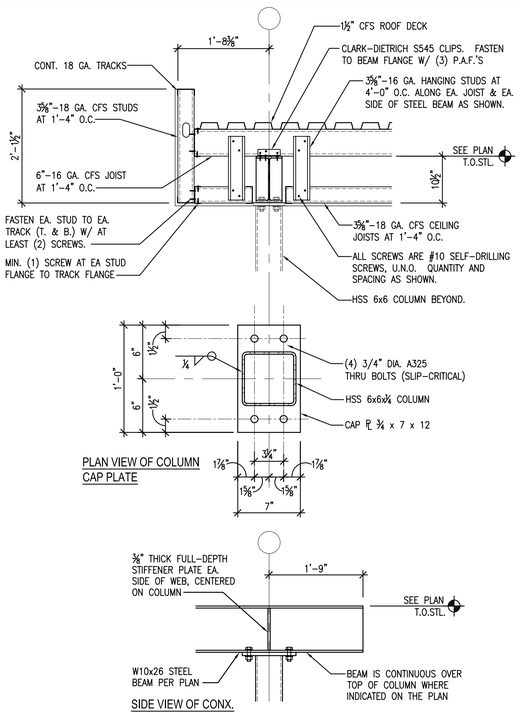
Plot Date: 11/9/2023 2:09:07 AM s401-galilee baptist roof details.dwg Chris Sekol



C4 **SIDE ENTRANCE CANOPY SECTION**
SCALE: 3/4" = 1'–0"



B4 **SIDE ENTRANCE CANOPY SECTION**
SCALE: 3/4" = 1'–0"

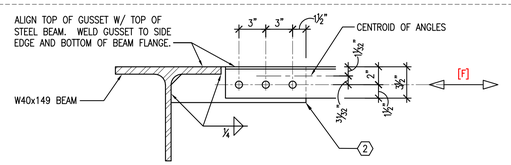


A4 **SIDE ENTRANCE CANOPY SECTION**
SCALE: 3/4" = 1'–0"

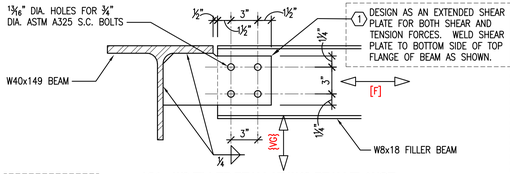
4

KEYED NOTES FOR: A1/S404 PLAN & CONNECTION DETAILS (BELOW):

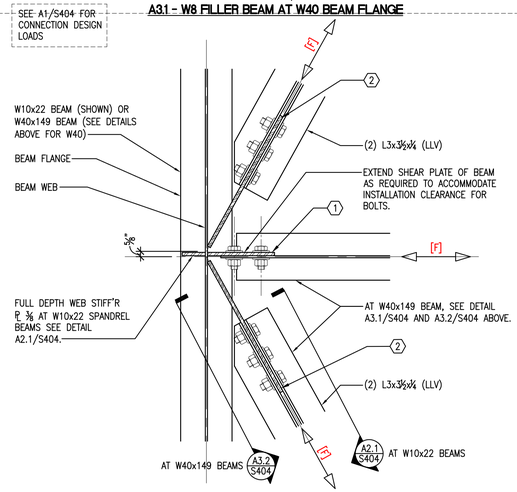
1. SINGLE SHEAR PL ⅜ (MIN. PLATE THICKNESS) DESIGN FOR BOTH AXIAL TENSION AND SHEAR IN ONE OR BOTH DIRECTIONS (SEE LOADS ON A1/S404).
2. GUSSET PL ⅜ x 4 SANDWICHED BETWEEN DOUBLE ANGLE BRACES.
3. STANDARD AISC DOUBLE ANGLE CONNECTION USING ⅞" THICK ANGLES. ADJUST ANGLE LOCATIONS TO ACCOMMODATE ROOM FOR ANGLE BRACE GUSSETS.
4. ½" DIAMETER THRU BOLT WITH PLATE WASHER PL ⅜ x 3 x 3 TO CONNECT THE PAIR OF BRACE ANGLES TOGETHER AT MID LENGTH.



A3.2 – ANGLE BRACE AT W40 BEAM FLANGE

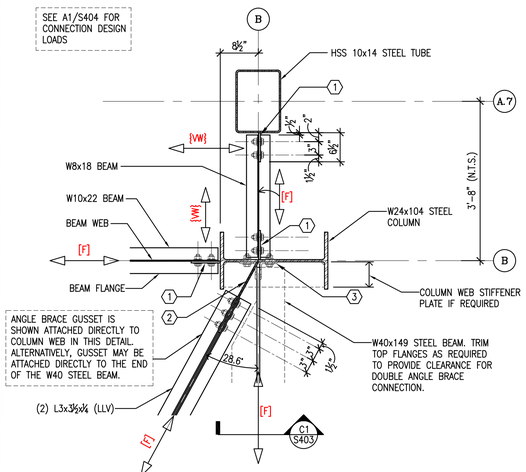


A3.1 – W8 FILLER BEAM AT W40 BEAM FLANGE

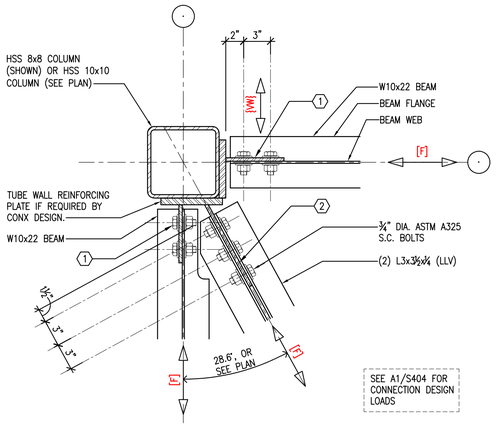


A3 **DIAPHRAGM TRUSS CONX. CROSS BRACES**
SCALE: 1–1/2"=1'–0"

3

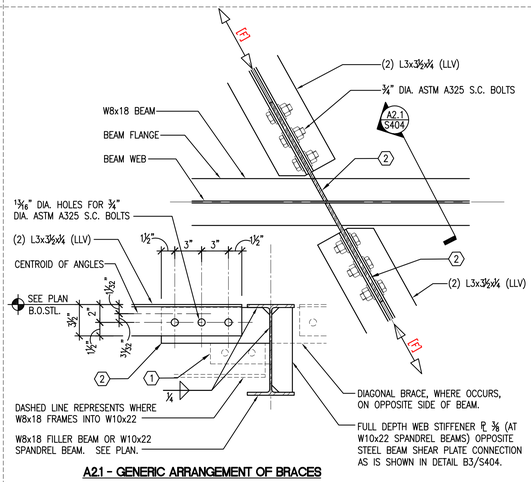


C2 **DIAPHRAGM TRUSS CONX. AT COLUMN**
SCALE: 3/4"=1'–0"



B2 **DIAPHRAGM TRUSS CONX. AT COLUMN**
SCALE: 1–1/2"=1'–0"

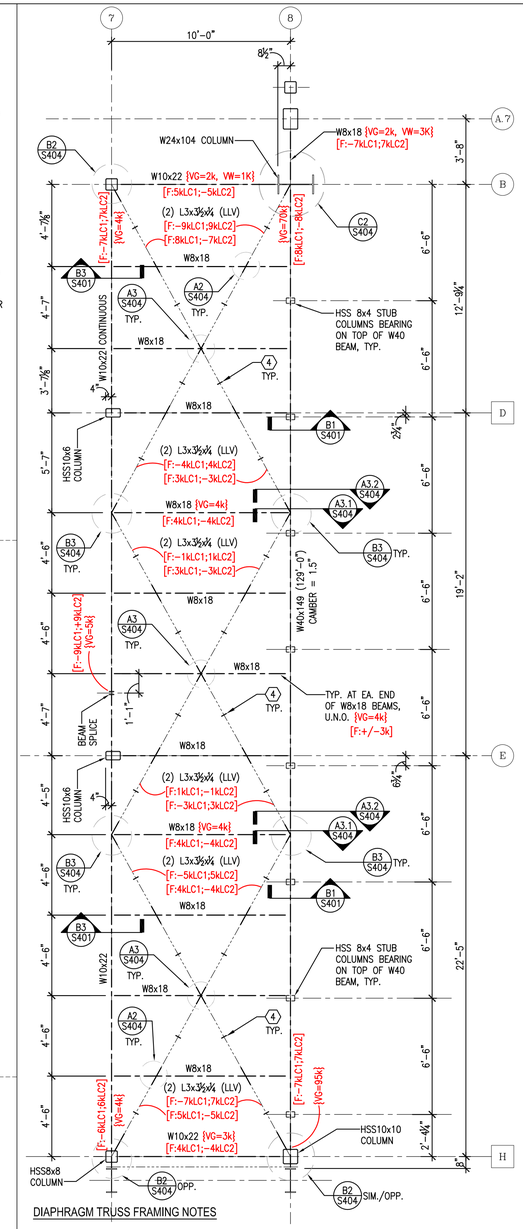
2



A2.1 – GENERIC ARRANGEMENT OF BRACES

A2 **DIAPHRAGM TRUSS CONX. DIAGONAL BRACE**
SCALE: 1–1/2"=1'–0"

1



DIAPHRAGM TRUSS FRAMING NOTES

A. SEE SHEET S102 FOR ROOF FRAMING NOTES WHICH MAY APPLY.
B. TOP OF STEEL ELEVATION (T.O.STL.) = 129'–0", U.N.O.
C. RED COLORED TEXT INDICATES CONNECTION LOADS AT MEMBER ENDS. THE FABRICATOR'S PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN SHALL DESIGN ALL BRACED FRAME CONNECTIONS, ANGLES, GUSSETS, AND BOLTS ACCORDING TO THE CONFIGURATIONS AND GEOMETRIES SHOWN FOR THE DESIGN LOADS AS PROVIDED.
D. ALL BOLTS SHALL BE ASTM F3125 (GRADE A325) SLIP CRITICAL.
E. ALL DIAGONAL BRACES: (2) L3 x3½ x¼ (LLV) W/ ⅜" GAP. PROVIDE ½" DIA. STITCH FASTENERS AND 3x3x⅜ PLATE WASHERS AT MID–LENGTH BUT STITCH FASTENERS SPACING SHALL NOT GREATER THAN 4'–0" O.C.
F. STRUCTURAL CONNECTION DESIGN LOADS SHALL BE INTERPRETED ACCORDING TO THE FOLLOWING INSTRUCTIONS:
   1. THE NOTATION "VG" INDICATES A VERTICAL SHEAR FORCE DUE TO GRAVITY FORCES, "VW" INDICATES A HORIZONTAL (OUT–OF–PLANE) SHEAR FORCE DUE TO WIND/SEISMIC, AND "F" INDICATES AN AXIAL FORCE ALONG THE AXIS OF THE MEMBER DUE TO WIND/SEISMIC.
   2. FORCES DUE TO WIND OR SEISMIC ARE EXPRESSED AT STRENGTH LEVEL. CONNECTION ENGINEER SHALL APPLY THE APPLICABLE LOAD COMBINATION FACTORS. LATERAL FORCES MAY BE ASSUMED TO BE CONTROLLED BY WIND UNLESS NOTED OTHERWISE.
   3. SIGN CONVENTION FOR AXIAL FORCES: A NEGATIVE SIGN (–) INDICATES TENSION, AND A PLUS SIGN (+) INDICATES COMPRESSION.
   4. DIAGONAL BRACE REACTIONS ARE PROVIDED (IN KIPS) IN SQUARE BRACKETS THUS: [–2.5K, LC1]. LC1 INDICATES LOAD CASE #1 AND LC2 INDICATES LOAD CASE #2.
   5. BEAM END REACTIONS ARE PROVIDED (IN KIPS) AT THE ENDS OF A BEAM IN CURLY BRACKETS, THUS: {V10k, F10K}. LOADS SHOWN NEXT TO THE BEAM SIZE SHALL BE APPLIED TO EACH END.
   6. IN ORDER TO SIMPLIFY THE LOAD DATA, MAXIMUM LOADS ARE SHOWN AT EACH MEMBER OR CONNECTION FACE AND THEREFORE LOADS MAY NOT BALANCE AT THE JOINT. TO COMPENSATE, AXIAL LOADS IN THE BEAMS OR BRACES MAY BE INCREASED TO BALANCE THE JOINT. ADDITIONAL OR MORE PRECISE LOAD DATA CAN BE PROVIDED UPON REQUEST.

A1 **ENLARGED FRAMING PLAN: ROOF DIAPHRAGM TRUSS**
SCALE: 3/4"=1'–0"

1

C
B
A

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Columbus, OH 43228
Phone: (614) 732-8088

STATE OF MARYLAND CHRISTOPHER P. SEKOL No. 26210 PROFESSIONAL ENGINEER

LICENSE EXPIRES: 06-21-2025
DRAWING ISSUED: 11-17-2023

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD
UPPER MARLBORO, MD 20772

DRAWING	DATE
[X] Bid Set	17 NOV 2023

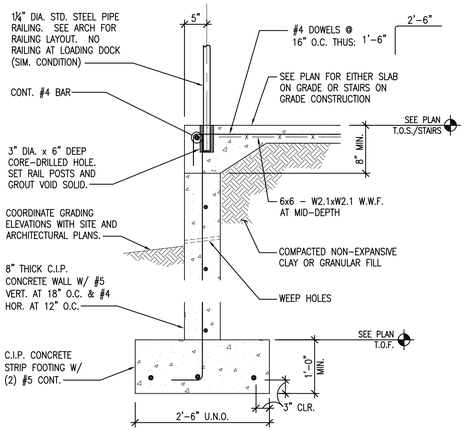
REVISIONS

FRAMING DETAILS

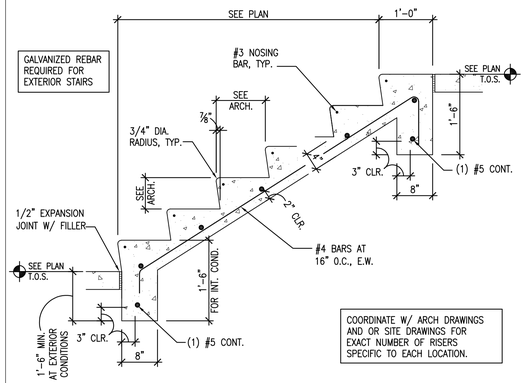
S404
OF 18 SHEETS

216118

Plot Date: 11/9/2023 2:10:01 AM s401-galilee baptist roof details.dwg Chris Sekol

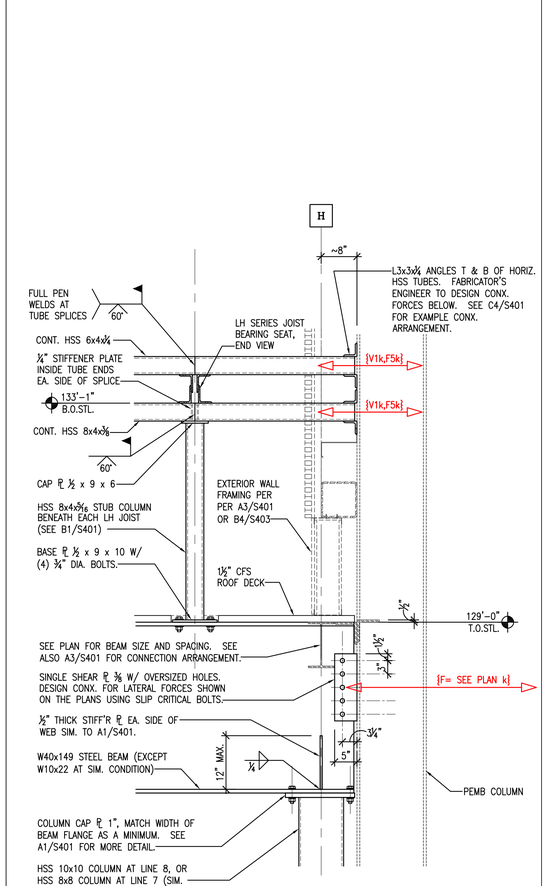


C4 **RETAINING WALL AT EXTERIOR WALK**
SCALE: 3/4" = 1'-0"



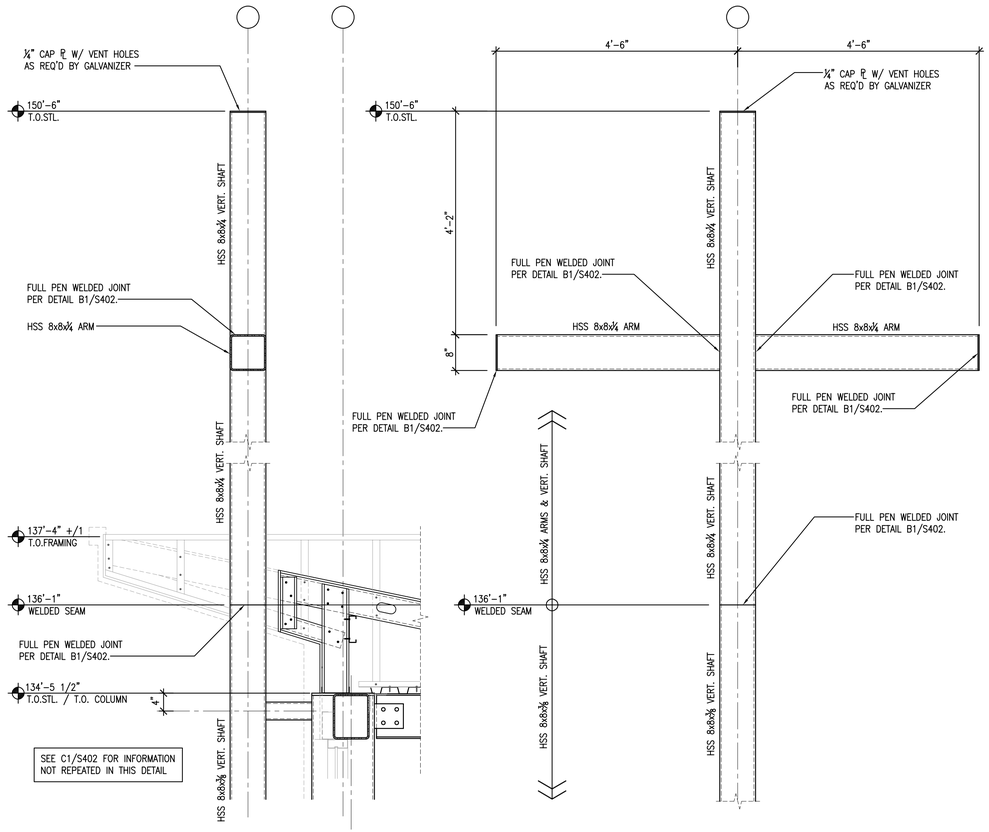
C3 **TYPICAL CONCRETE STAIRS ON GRADE DETAIL**
SCALE: 3/4" = 1'-0"

C

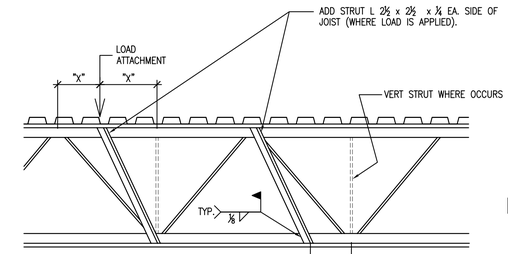


A4 **ROOF GIRDER BEAM SUPPORT DETAIL**
SCALE: 3/4" = 1'-0"

THE FINISH SYSTEM FOR THE DECORATIVE CROSS AND ALL EXPOSED COLUMNS IN GENERAL IS THE FOLLOWING: PAINT SYSTEM OVER GALVANIZED STEEL. SEE ARCHITECTURAL PAINT SPECIFICATION OF PRIMER AND TOP COAT.



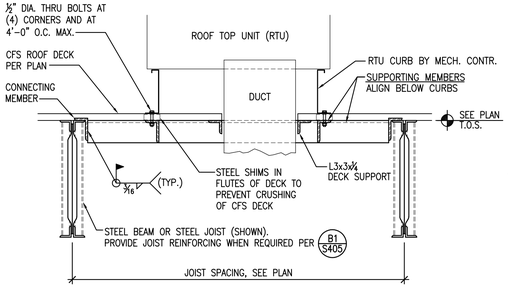
A3 **ELEVATION VIEW OF FRONT ENTRANCE ORNAMENTAL CROSS**
SCALE: 3/4"=1'-0"



NOTES:
1. ADDITIONAL STRUT SHALL BE REQUIRED AT ALL HVAC UNIT SUPPORTS UNLESS SUPPORT IS AT PANEL POINT OF JOIST OR JOIST GIRDER.
2. ADDITIONAL STRUT IS NOT REQUIRED IF "X" OR "Y" IS LESS THAN OR EQUAL TO 4".
3. ADDITIONAL STRUT IS NOT REQUIRED FOR CONCENTRATED LOADS LESS THAN 100 LBS.

B1 **JOIST REINFORCING DETAIL**
SCALE: N.T.S.

B



MAX. EQUIPMENT WT.	SUPPORTING MEMBER	CONNECTING MEMEBER
900 LBS.	L 3 x3 x1/4	L 3 x3 x1/4 x6" LONG
2400 LBS.	L 5 x3 x1/4 LLV	L 5 x3 x1/4 x6" LONG
3500 LBS.	C 6x8.2	BENT P 8 x3 x1/4 x8" LONG

A1 **MECHANICAL RTU FRAME DETAIL**
SCALE: N.T.S.

A

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6300 WOODYARD ROAD
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DRAWING	DATE
[X] Bid Set	17 NOV 2023

REVISIONS

FRAMING DETAILS

S405
OF 18 SHEETS

216118

Plot Date: 11/9/2023 2:10:45 AM s401-galilee baptist roof details.dwg Chris Sekol

4 3 2 1

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10. SEE A800 SERIES DRAWINGS FOR CEILING FINISHES, CEILING HEIGHTS, AND OTHER CEILING INFORMATION.
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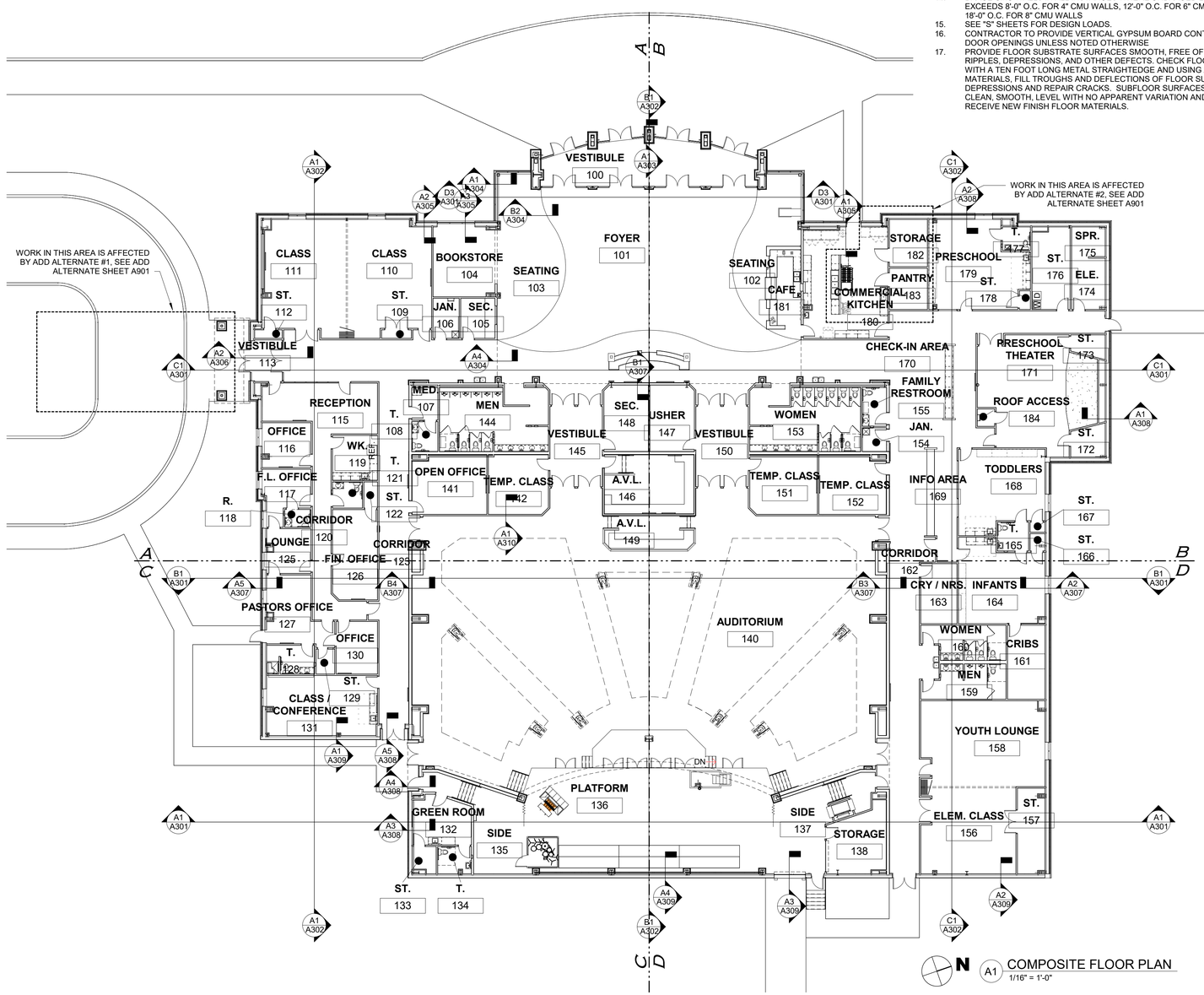

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☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

COMPOSITE FLOOR PLAN

A100
OF SHEETS

216118

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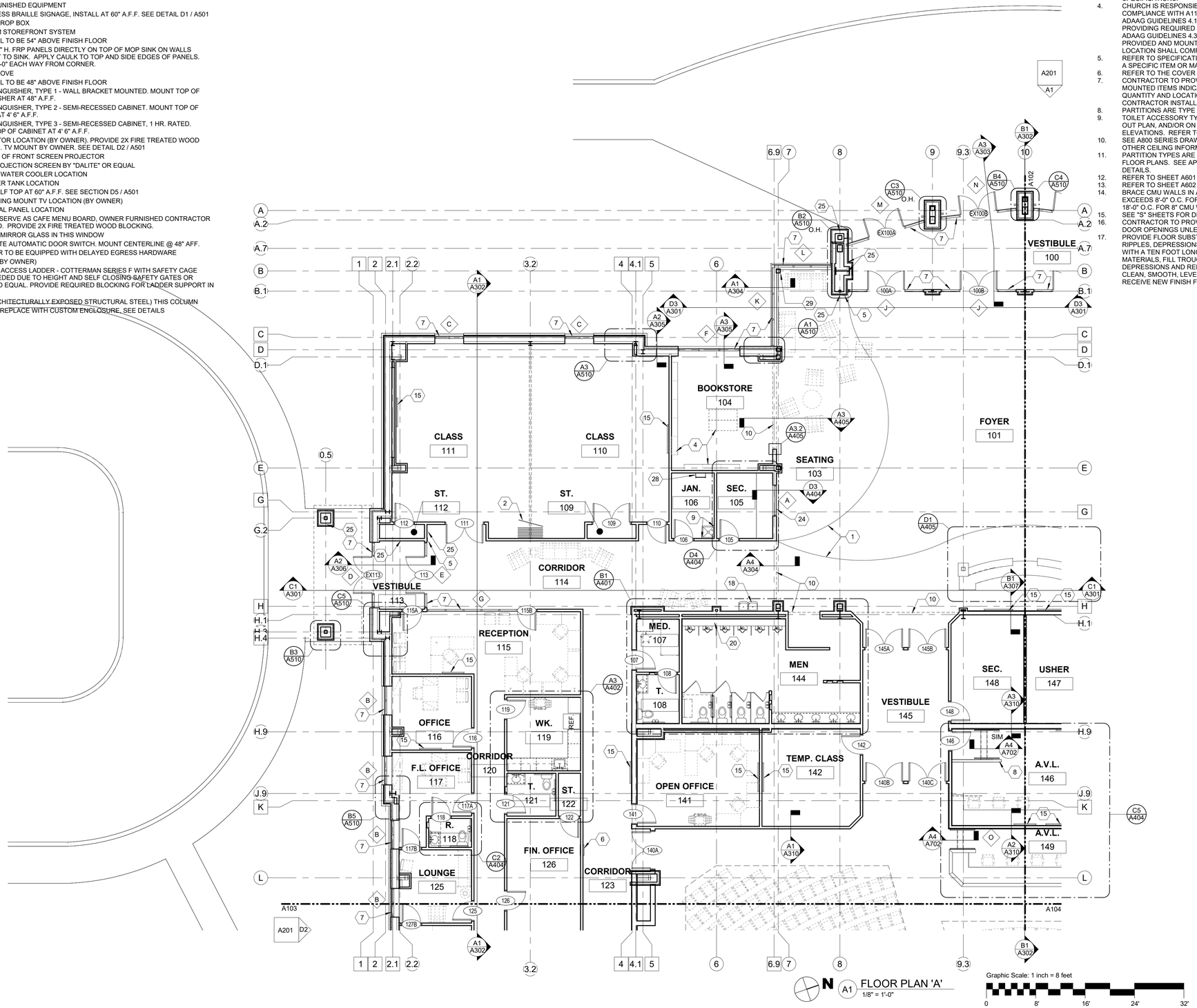

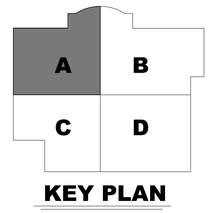

KEY PLAN

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REVISIONS/ADDENDUMS

FLOOR PLAN 'A'

A101
OF SHEETS

216118

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8. PARTITIONS ARE TYPE 708A UNLESS NOTED OTHERWISE.
9. TOILET ACCESSORY TYPES ARE INDICATED BY T (#) AS SHOWN ON THE CALL OUT PLAN, AND/OR ON ENLARGED PLANS, AND/OR ON THE INTERIOR ELEVATIONS. REFER TO SPECIFICATION SECTION 10 26 13 FOR SCHEDULE.
10. SEE A600 SERIES DRAWINGS FOR CEILING FINISHES, CEILING HEIGHTS, AND OTHER CEILING INFORMATION.
11. PARTITION TYPES ARE INDICATED BY 621A, 710C, ETC. AS SHOWN ON THE FLOOR PLANS. SEE AP105 & AP106 DRAWINGS FOR PARTITION TYPES AND DETAILS.
12. REFER TO SHEET A601 FOR DOOR & FRAME ELEVATIONS.
13. REFER TO SHEET A602 FOR DOOR AND FRAME DETAILS.
14. BRACE CMU WALLS IN ALL INSTANCES WHERE UNBRACED LENGTH OF WALL EXCEEDS 8'-0" O.C. FOR 4" CMU WALLS, 12'-0" O.C. FOR 6" CMU WALLS, OR 18'-0" O.C. FOR 8" CMU WALLS
15. SEE "S" SHEETS FOR DESIGN LOADS.
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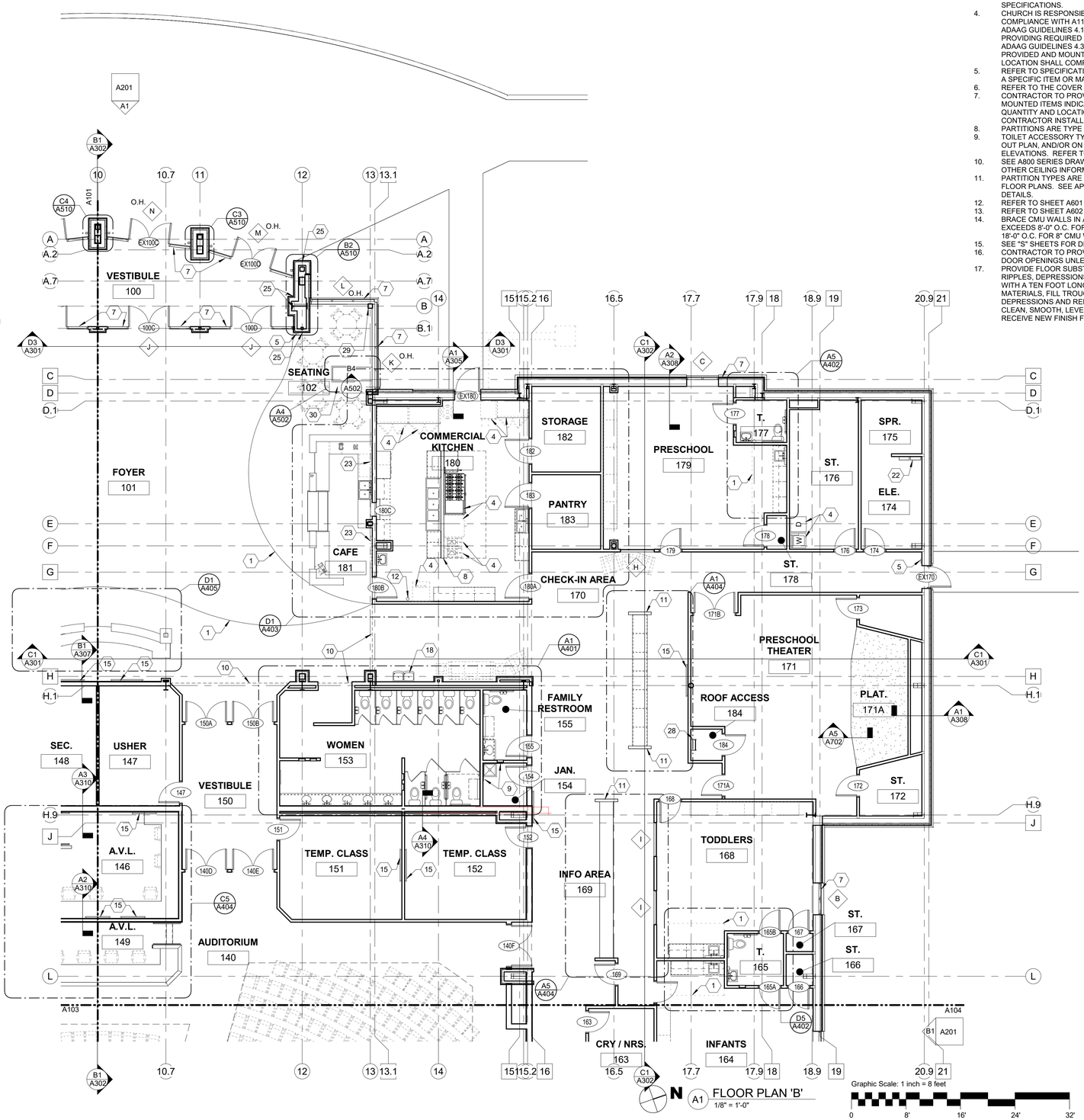
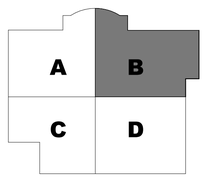
17. PROVIDE FLOOR SUBSTRATE SURFACES SMOOTH, FREE OF RIDGES, RIPPLES, DEPRESSIONS, AND OTHER DEFECTS. CHECK FLOOR SURFACES WITH A TEN FOOT LONG METAL STRAIGHTEDGE AND USING APPROPRIATE MATERIALS, FILL TROUGHS AND DEFLECTIONS OF FLOOR SURFACES. FILL DEPRESSIONS AND REPAIR CRACKS. SUBFLOOR SURFACES SHALL BE CLEAN, SMOOTH, LEVEL WITH NO APPARENT VARIATION AND SUITABLE TO RECEIVE NEW FINISH FLOOR MATERIALS.





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GALILEE BAPTIST CHURCH
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☐ PERMIT SET	

REVISIONS/ADDENDUMS

FLOOR PLAN 'B'

A102
OF SHEETS

216118

5 4 3 2 1

CODED NOTES - FLOOR PLANS

1 TRANSITION BETWEEN FLOOR FINISHES
2 OPERABLE PARTITION, SEE SPECIFICATIONS
3 WHEELCHAIR SPACE
4 OWNER FUNISHED EQUIPMENT
5 EXIT EGRESS BRAILLE SIGNAGE, INSTALL AT 60" A.F.F. SEE DETAIL D1 / A501
6 SECURE DROP BOX
7 ALUMINUM STOREFRONT SYSTEM
8 KNEE WALL TO BE 54" ABOVE FINISH FLOOR
9 APPLY 4'-0" H. FRP PANELS DIRECTLY ON TOP OF MOP SINK ON WALLS ADJACENT TO SINK. APPLY CAULK TO TOP AND SIDE EDGES OF PANELS. EXTEND 3'-0" EACH WAY FROM CORNER.
10 SOFFIT ABOVE
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15 T.V. MONITOR LOCATION (BY OWNER). PROVIDE 2X FIRE TREATED WOOD BLOCKING. TV MOUNT BY OWNER. SEE DETAIL D2 / A501
16 LOCATION OF FRONT SCREEN PROJECTOR
17 FRONT PROJECTION SCREEN BY "DALITE" OR EQUAL
18 ELECTRIC WATER COOLER LOCATION
19 HOT WATER TANK LOCATION
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21 DUAL CEILING MOUNT TV LOCATION (BY OWNER)
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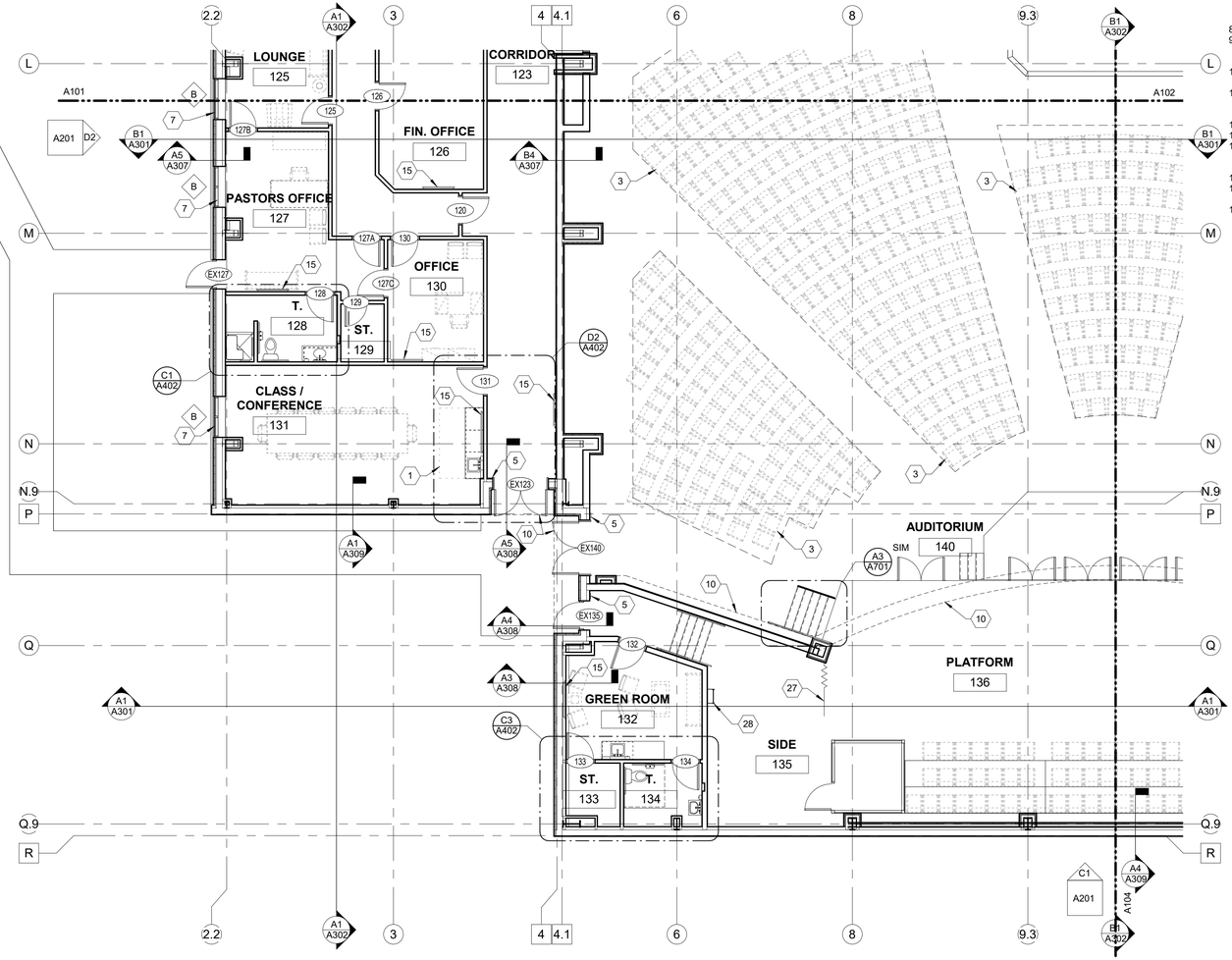
30 3-SIDED FIREPLACE WITH CUSTOM ENCLOSURE, SEE DETAILS



GENERAL NOTES - FLOOR PLANS

1. FIRST FLOOR FINISH FLOOR ELEVATION 100'-0" = USGS 1056.00. REFER TO CIVIL PLANS.
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N A1 FLOOR PLAN 'C'
1/8" = 1'-0"

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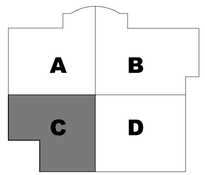

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REVISIONS/ADDENDUMS

FLOOR PLAN 'C'

A103
OF SHEETS

216118

CODED NOTES - FLOOR PLANS

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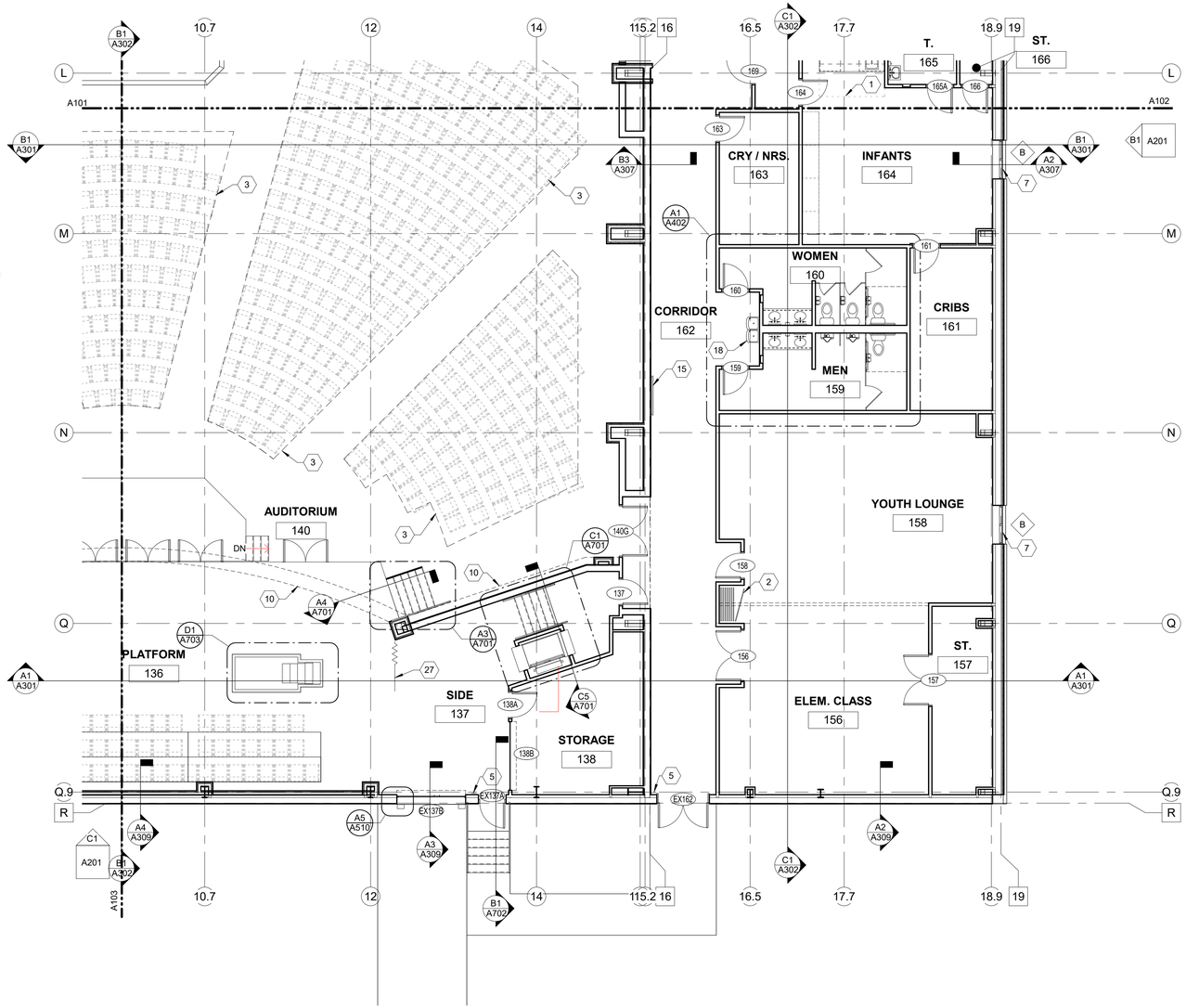

N A1 FLOOR PLAN 'D'
1/8" = 1'-0"

Graphic Scale: 1 inch = 8 feet
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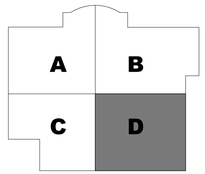

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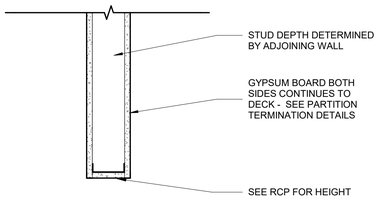
REVISIONS/ADDENDUMS

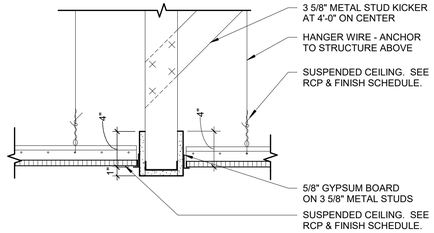
FLOOR PLAN 'D'

A104
OF SHEETS

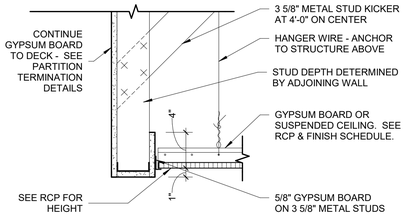
216118



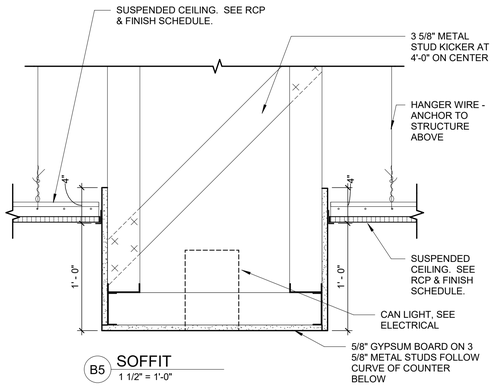
D5 SOFFIT TYPE C
1 1/2" = 1'-0"



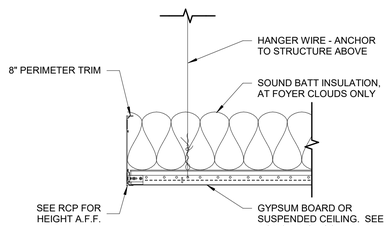
D4 CEILING TRANSITION
1 1/2" = 1'-0"



C5 SOFFIT TYPE A
1 1/2" = 1'-0"



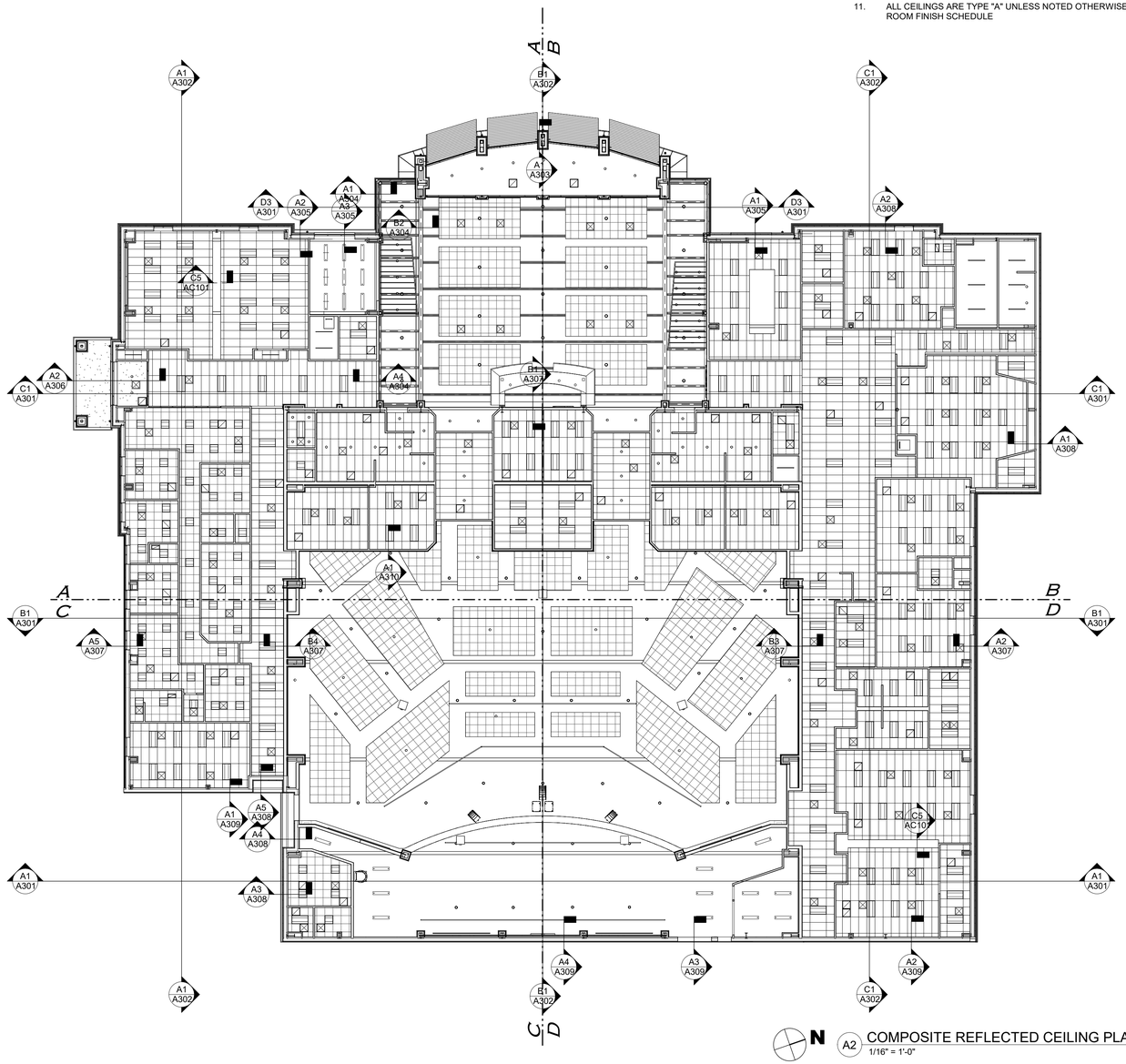
B5 SOFFIT
1 1/2" = 1'-0"



A5 CEILING CLOUD EDGE (TYP AT ALL CLOUDS)
1 1/2" = 1'-0"

GENERAL RCP NOTES

1. ALL CEILING HEIGHTS TO BE AT 10'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE, REFER TO PLANS.
2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS AND ADDITIONAL CEILING MOUNTED DEVICES. **NOTE:** NOT ALL CEILING MOUNTED DEVICES ARE SHOWN ON THIS PLAN.
3. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEVICE & FIXTURE SIZES AND SPECIFIC TYPES.
4. THESE DRAWINGS SHALL BE USED FOR LAYOUT OF ALL CEILING DEVICES. CONSULT WITH ARCHITECT IF A CONFLICT ARISES WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FIXTURES ARE DIMENSIONED TO CENTERLINE OF FIXTURE.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS WHERE NECESSARY FOR ACCESS TO EQUIPMENT AND CONTROLS. REVIEW LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.
7. REFER TO ROOM FINISH SCHEDULE FOR ACOUSTICAL CEILING PANEL TYPE AND SOFFIT PAINT COLORS.
8. COORDINATE WITH LIGHTING, DIFFUSERS, EXHAUST VENTS, PROJECTORS, AND ALL OTHER CEILING MOUNTED ITEMS. SEE MEP DRAWINGS.
9. WHERE SPECIFIC ACCENT PAINT FINISHES ARE NOTED, THE VERTICAL AND HORIZONTAL SURFACES OF THE SOFFIT ARE TO BE PAINTED THE SPECIFIED COLOR. REFER TO THE ROOM FINISH SCHEDULE AND THE SPECIFICATIONS
10. IN ALL ROOMS WITH EXPOSED CEILINGS (EXCEPT MECHANICAL ROOMS AND JANITOR CLOSETS), PAINT ALL EXPOSED PIPES, DUCTS, VALVES, FITTINGS, CONDUITS, INSULATION, AND PIPING TO MATCH ADJACENT SURFACES.
11. ALL CEILINGS ARE TYPE "A" UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE



A2 COMPOSITE REFLECTED CEILING PLAN
1/16" = 1'-0"

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

COMPOSITE REFLECTED CEILING PLAN

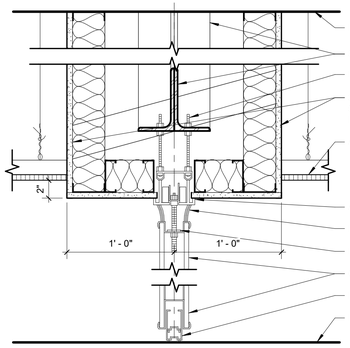
AC100
OF SHEETS

216118

5 4 3 2 1
D C B A

CODED NOTES - RCP

1 G.W.B. CEILING ON METAL STUD
2 EXPOSED STRUCTURE, ROOF DECK, DUCTWORK, AND PIPES TO BE PAINTED WITH DRY-FALL BLACK PAINT IN THIS AREA. CENTER LIGHT FIXTURE MODULES IN AVAILABLE SPACE.
3 SLOPING LAY-IN TILE "CLOUD", WITH 8" HIGH PRIMETER EDGE TRIM AND 6" BATT INSULATION
4 TRAVELLER THEATRICAL CURTAIN AND ASSOCIATED SUPPORT, XX# PLF (XX# FOR CURTAIN AND XX# FOR TRACK) LENGTH AND LOCATION AS SHOWN ON PLAN.
6 SOFFIT TYPE A - SEE DETAIL C5/AC100.
7 SOFFIT TYPE C - SEE DETAIL D5/AC100.
8 OPERABLE PARTITION. SEE SPECIFICATIONS.
9 CUSTOM FABRICATED TRELLIS
10 CEILING HIDDEN IN THIS ROOM TO SEE CLOUD SYSTEM ABOVE.
11 ROOFTOP ACCESS LADDER - COTTERMAN SERIES F OR APPROVED EQUAL.
12 CEILING COUD EDGE TRIM, SEE DETAIL A5/AC100.



C5 OPERABLE PARTITION
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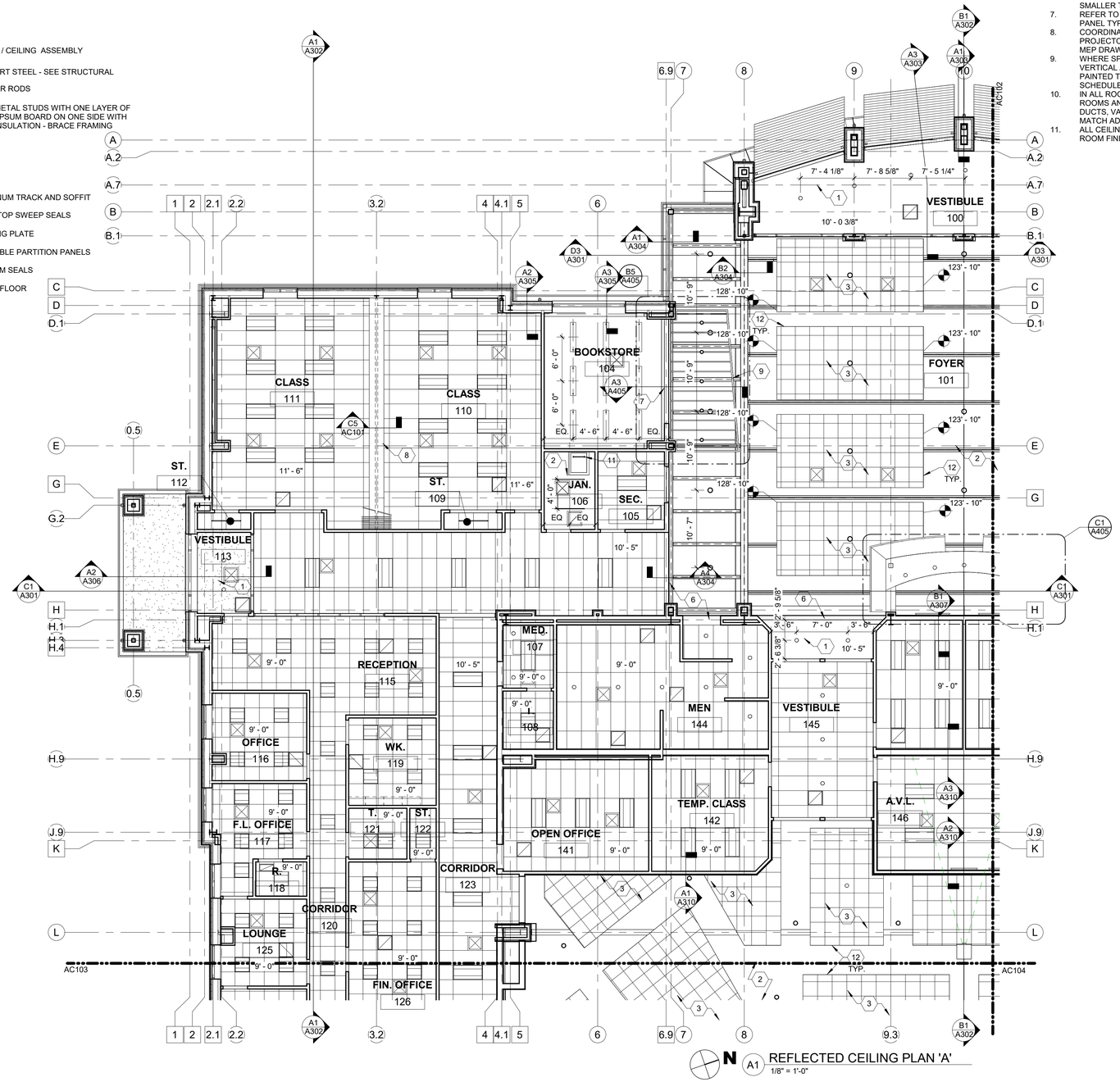
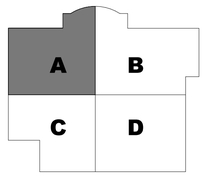


N A1 REFLECTED CEILING PLAN 'A'
1/8" = 1'-0"

GENERAL RCP NOTES

1. ALL CEILING HEIGHTS TO BE AT 10'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE, REFER TO PLANS.
2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS AND ADDITIONAL CEILING MOUNTED DEVICES. **NOTE:** NOT ALL CEILING MOUNTED DEVICES ARE SHOWN ON THIS PLAN.
3. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEVICE & FIXTURE SIZES AND SPECIFIC TYPES.
4. THESE DRAWINGS SHALL BE USED FOR LAYOUT OF ALL CEILING DEVICES. CONSULT WITH ARCHITECT IF A CONFLICT ARISES WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FIXTURES ARE DIMENSIONED TO CENTERLINE OF FIXTURE.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS WHERE NECESSARY FOR ACCESS TO EQUIPMENT AND CONTROLS. REVIEW LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.
7. REFER TO ROOM FINISH SCHEDULE FOR ACOUSTICAL CEILING PANEL TYPE AND SOFFIT PAINT COLORS.
8. COORDINATE WITH LIGHTING, DIFFUSERS, EXHAUST VENTS, PROJECTORS, AND ALL OTHER CEILING MOUNTED ITEMS. SEE MEP DRAWINGS.
9. WHERE SPECIFIC ACCENT PAINT FINISHES ARE NOTED, THE VERTICAL AND HORIZONTAL SURFACES OF THE SOFFIT ARE TO BE PAINTED THE SPECIFIED COLOR. REFER TO THE ROOM FINISH SCHEDULE AND THE SPECIFICATIONS
10. IN ALL ROOMS WITH EXPOSED CEILINGS (EXCEPT MECHANICAL ROOMS AND JANITOR CLOSETS), PAINT ALL EXPOSED PIPES, DUCTS, VALVES, FITTINGS, CONDUITS, INSULATION, AND PIPING TO MATCH ADJACENT SURFACES.
11. ALL CEILINGS ARE TYPE "A" UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE



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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
DD MEETING #2	09/10/2019
DD MEETING #3	10/06/2023
BID SET	11/15/2023
[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

REVISIONS/ADDENDUMS

REFLECTED CEILING PLAN 'A'

AC101
OF SHEETS

216118

CODED NOTES - RCP

1 G.W.B. CEILING ON METAL STUD
2 EXPOSED STRUCTURE, ROOF DECK, DUCTWORK, AND PIPES TO BE PAINTED WITH DRY-FALL BLACK PAINT IN THIS AREA. CENTER LIGHT FIXTURE MODULES IN AVAILABLE SPACE.
3 SLOPING LAY-IN TILE "CLOUD", WITH 8" HIGH PRIMETER EDGE TRIM AND 6" BATT INSULATION
4 TRAVELLER THEATRICAL CURTAIN AND ASSOCIATED SUPPORT, XX# PLF (XX# FOR CURTAIN AND XX# FOR TRACK) LENGTH AND LOCATION AS SHOWN ON PLAN.
6 SOFFIT TYPE A - SEE DETAIL C5/AC100.
7 SOFFIT TYPE C - SEE DETAIL D5/AC100.
8 OPERABLE PARTITION. SEE SPECIFICATIONS.
9 CUSTOM FABRICATED TRELLIS
10 CEILING HIDDEN IN THIS ROOM TO SEE CLOUD SYSTEM ABOVE.
11 ROOFTOP ACCESS LADDER - COTTERMAN SERIES F OR APPROVED EQUAL.
12 CEILING COUD EDGE TRIM, SEE DETAIL A5/AC100.

GENERAL RCP NOTES

1. ALL CEILING HEIGHTS TO BE AT 10'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE, REFER TO PLANS.
2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS AND ADDITIONAL CEILING MOUNTED DEVICES. **NOTE:** NOT ALL CEILING MOUNTED DEVICES ARE SHOWN ON THIS PLAN.
3. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEVICE & FIXTURE SIZES AND SPECIFIC TYPES.
4. THESE DRAWINGS SHALL BE USED FOR LAYOUT OF ALL CEILING DEVICES. CONSULT WITH ARCHITECT IF A CONFLICT ARISES WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FIXTURES ARE DIMENSIONED TO CENTERLINE OF FIXTURE.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS WHERE NECESSARY FOR ACCESS TO EQUIPMENT AND CONTROLS. REVIEW LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.
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8. COORDINATE WITH LIGHTING, DIFFUSERS, EXHAUST VENTS, PROJECTORS, AND ALL OTHER CEILING MOUNTED ITEMS. SEE MEP DRAWINGS.
9. WHERE SPECIFIC ACCENT PAINT FINISHES ARE NOTED, THE VERTICAL AND HORIZONTAL SURFACES OF THE SOFFIT ARE TO BE PAINTED THE SPECIFIED COLOR. REFER TO THE ROOM FINISH SCHEDULE AND THE SPECIFICATIONS
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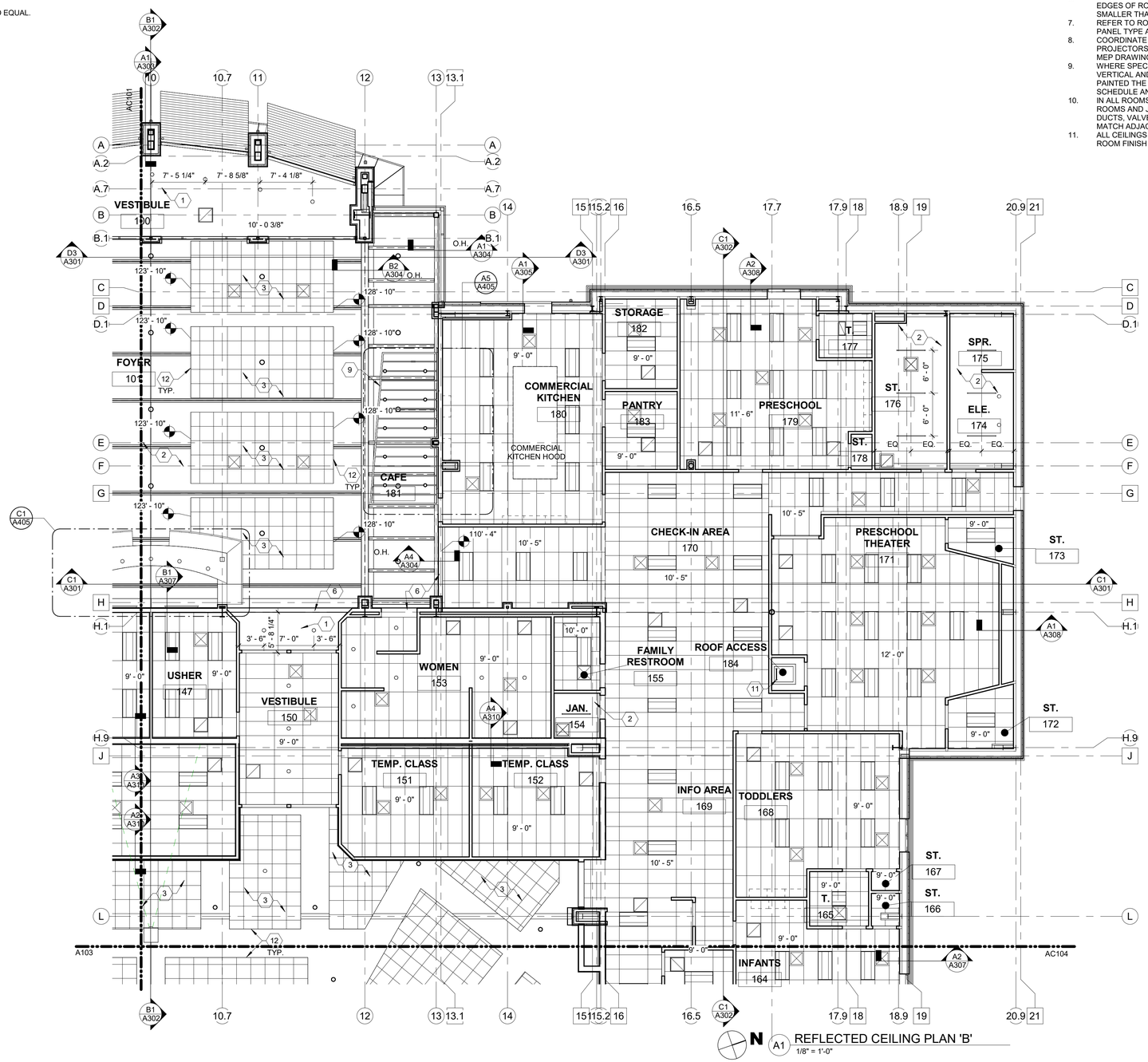
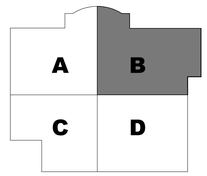
11. ALL CEILINGS ARE TYPE "A" UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE





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[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

REVISIONS/ADDENDUMS

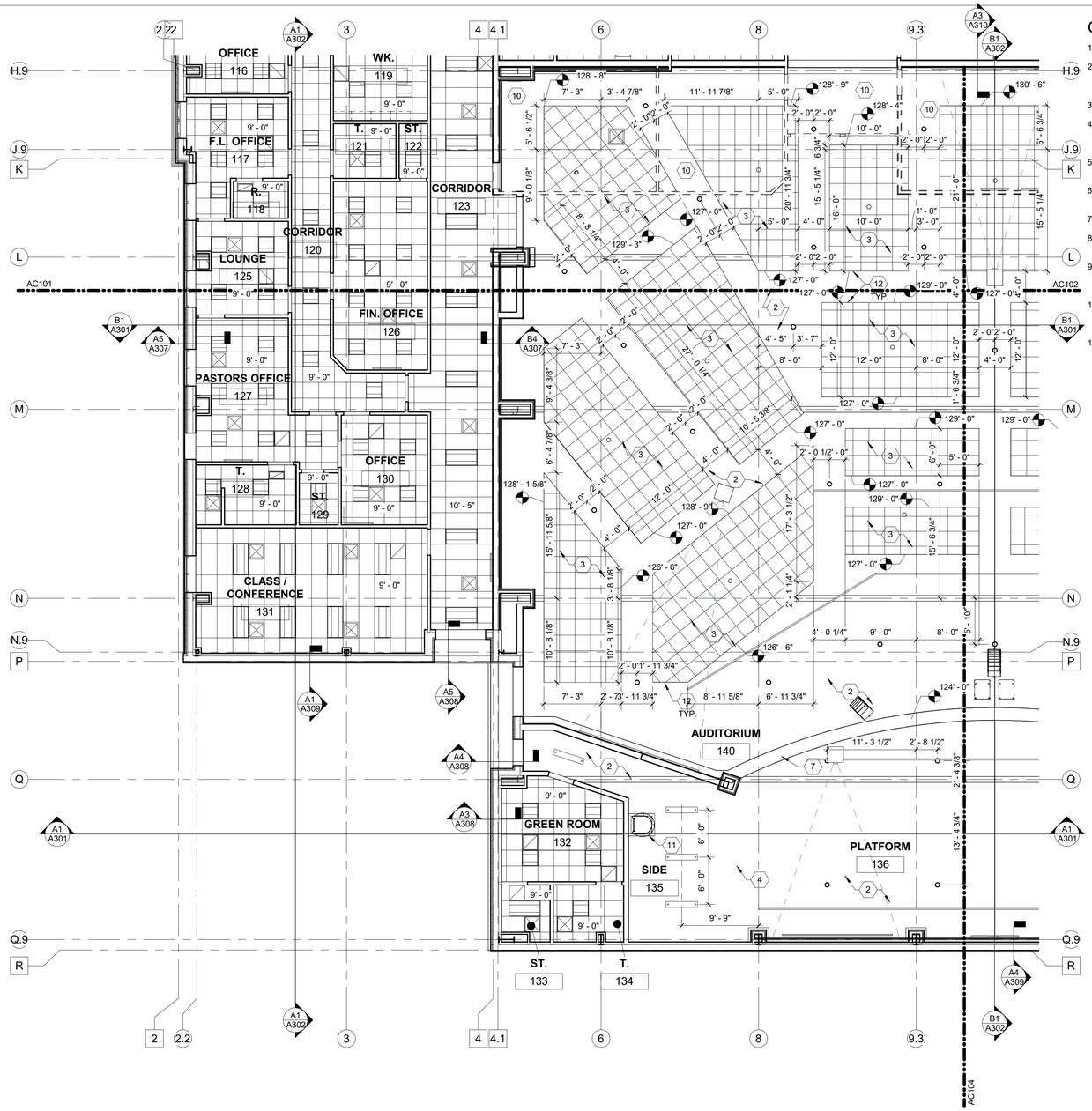
REFLECTED CEILING PLAN 'B'

AC102
OF SHEETS

216118

CODED NOTES - RCP

1. G.W.B. CEILING ON METAL STUD
2. EXPOSED STRUCTURE, ROOF DECK, DUCTWORK, AND PIPES TO BE PAINTED WITH DRY-FALL BLACK PAINT IN THIS AREA. CENTER LIGHT FIXTURE MODULES IN AVAILABLE SPACE.
3. SLOPING LAY-IN TILE "CLOUD", WITH 8" HIGH PRIMETER EDGE TRIM AND 6" BATT INSULATION
4. TRAVELLER THEATRICAL CURTAIN AND ASSOCIATED SUPPORT, XX# PLF (XX# FOR CURTAIN AND XX# FOR TRACK) LENGTH AND LOCATION AS SHOWN ON PLAN.
6. SOFFIT TYPE A - SEE DETAIL C5/AC100.
7. SOFFIT TYPE C - SEE DETAIL D5/AC100.
8. OPERABLE PARTITION. SEE SPECIFICATIONS.
9. CUSTOM FABRICATED TRELLIS
10. CEILING HIDDEN IN THIS ROOM TO SEE CLOUD SYSTEM ABOVE.
11. ROOFTOP ACCESS LADDER - COTTERMAN SERIES F OR APPROVED EQUAL.
12. CEILING COUD EDGE TRIM, SEE DETAIL A5/AC100.



GENERAL RCP NOTES

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2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS AND ADDITIONAL CEILING MOUNTED DEVICES. **NOTE:** NOT ALL CEILING MOUNTED DEVICES ARE SHOWN ON THIS PLAN.
3. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEVICE & FIXTURE SIZES AND SPECIFIC TYPES.
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6. ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.
7. REFER TO ROOM FINISH SCHEDULE FOR ACOUSTICAL CEILING PANEL TYPE AND SOFFIT PAINT COLORS.
8. COORDINATE WITH LIGHTING, DIFFUSERS, EXHAUST VENTS, PROJECTORS, AND ALL OTHER CEILING MOUNTED ITEMS. SEE MEP DRAWINGS.
9. WHERE SPECIFIC ACCENT PAINT FINISHES ARE NOTED, THE VERTICAL AND HORIZONTAL SURFACES OF THE SOFFIT ARE TO BE PAINTED THE SPECIFIED COLOR. REFER TO THE ROOM FINISH SCHEDULE AND THE SPECIFICATIONS
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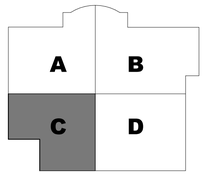
11. ALL CEILINGS ARE TYPE "A" UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE

N A1 REFLECTED CEILING PLAN 'C'
1/8" = 1'-0"



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☐ PERMIT SET	

REVISIONS/ADDENDUMS

REFLECTED CEILING PLAN 'C'

AC103
OF SHEETS

216118

CODED NOTES - RCP

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7. SOFFIT TYPE C - SEE DETAIL D5/AC100.
8. OPERABLE PARTITION. SEE SPECIFICATIONS.
9. CUSTOM FABRICATED TRELLIS
10. CEILING HIDDEN IN THIS ROOM TO SEE CLOUD SYSTEM ABOVE.
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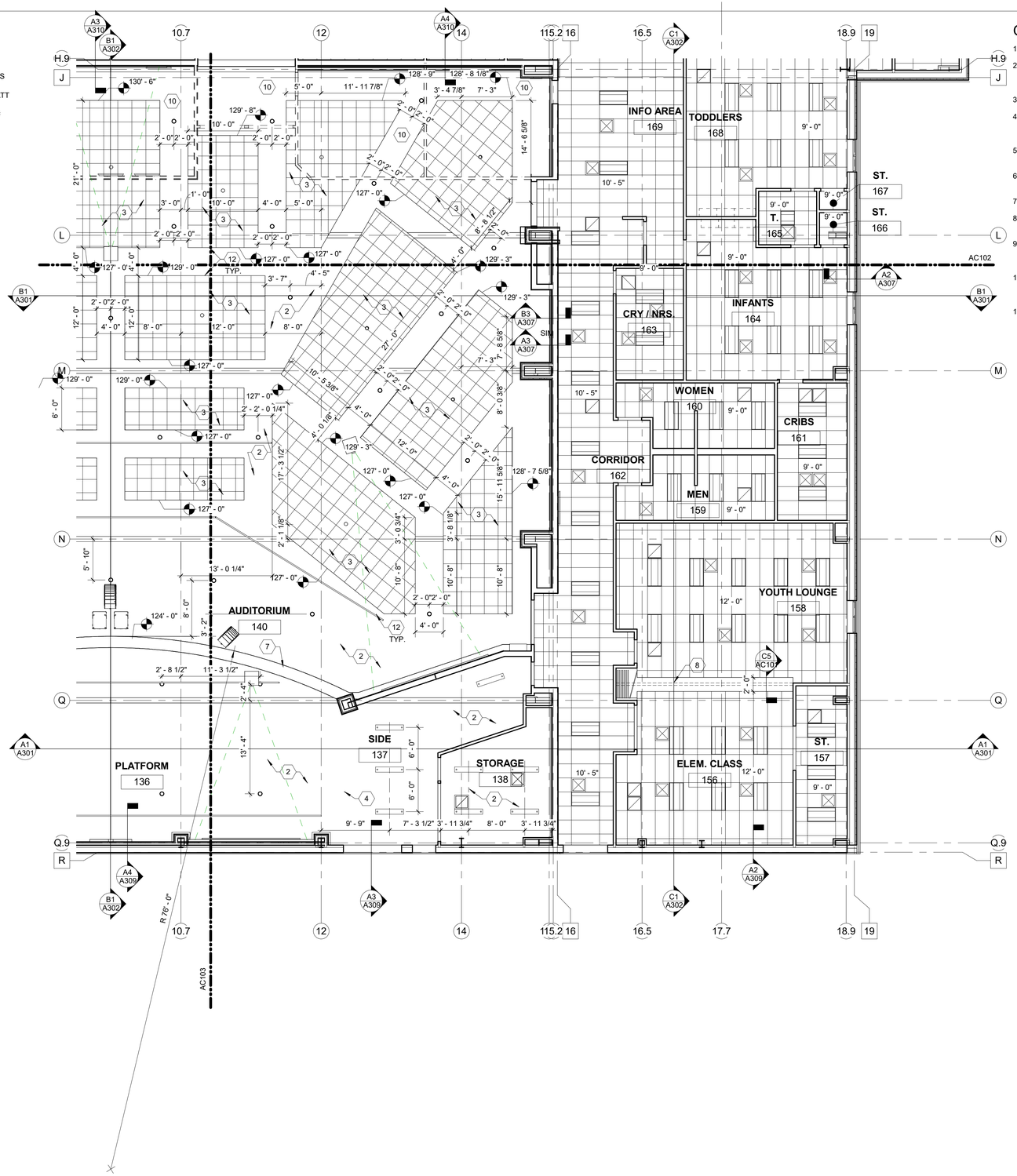
12. CEILING COUD EDGE TRIM, SEE DETAIL A5/AC100.



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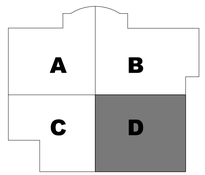
N A1 REFLECTED CEILING PLAN 'D'
1/8" = 1'-0"



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☐ PERMIT SET	

REVISIONS/ADDENDUMS

REFLECTED CEILING PLAN 'D'

AC104
OF SHEETS

216118

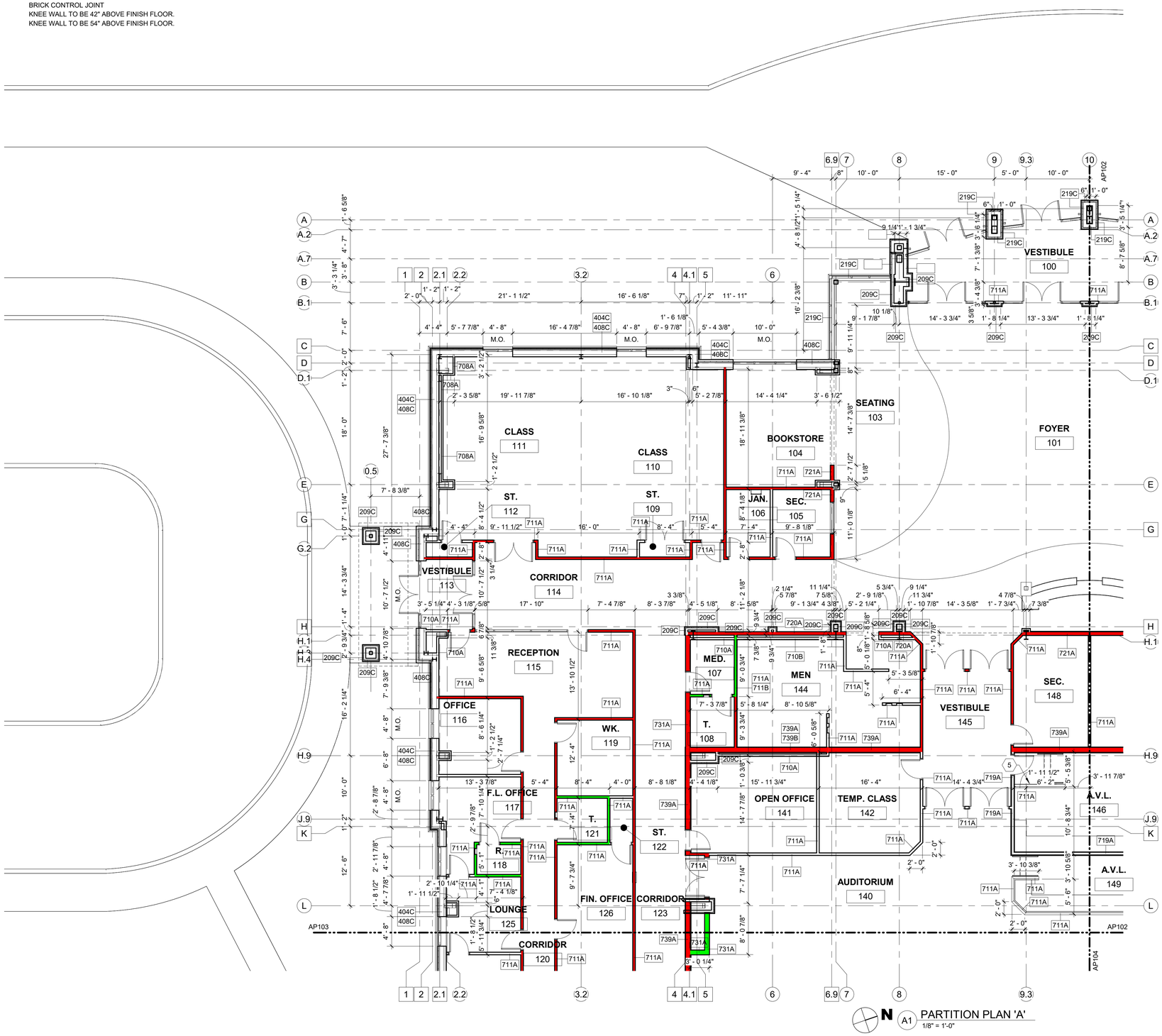
CODED NOTES - PARTITION PLANS

1 ALIGN
2 MASONRY CONTROL JOINT SEE STRUCTURAL DRAWINGS
3 BRICK CONTROL JOINT
4 KNEE WALL TO BE 42" ABOVE FINISH FLOOR.
5 KNEE WALL TO BE 54" ABOVE FINISH FLOOR.

GENERAL NOTES - PARTITION PLAN

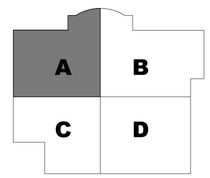
REFER TO INDEX SHEET FOR ADDITIONAL NOTES.

1. ALL WALLS TO BE TYPE 708A UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS ARE FACE OF STUD, MASONRY, GIRT, SHEATHING, INSIDE FACE OF FINISH MATERIAL, AND/OR STEEL LINES (CENTERS AND/OR FACE OF COLUMNS).
3. ALL DOORS TO HAVE AS STANDARD A NET 4" OFFSET FROM EDGE OF DOOR TO ADJACENT/PERPENDICULAR WALL. SEE SCHEDULES FOR DOOR AND WINDOW SPECIFICATIONS, UNLESS NOTED OTHERWISE.
4. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS SHEETS FOR INTERIOR FINISH SPECIFICATIONS.
5. RATED WALLS TO BE RUN CONTINUOUS PRIOR TO ADJACENT WALLS BEING CONSTRUCTED.
6. METAL PIPE PENETRATIONS THOUGH RATED WALL PER UL SYSTEM # W-L-1290
7. ALL GYPSUM WALL BOARD (GWB) IN PROJECT TO BE TYPE "X".
8. SOUND BATT INSULATION TO BE INSTALLED IN ALL STUD WALLS EXCEPT KNEE WALLS.
9. ALL CORRIDOR STUD WALLS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON CORRIDOR SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
10. UNLESS NOTED OTHERWISE,2 STUD WALLS SURROUNDING CLASSROOMS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON ONE SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
11. STUD WALLS SURROUNDING ASSEMBLY SPACES (AUDITORIUM, PRESCHOOL THEATER) TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON BOTH SIDES TO BE TAKEN TO UNDERSIDE OF ROOF DECK.
12. UNLESS NOTED OTHERWISE, STUD WALLS SURROUNDING RESTROOMS/TOILETS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON RESTROOM/TOILET SIDE TO BE TAKEN TO UNDERSIDE TO ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0"



N A1 PARTITION PLAN 'A'
1/8" = 1'-0"

G.W.B. TIGHT TO DECK ONE SIDE (W/ SOUND BATT)
G.W.B. TIGHT TO DECK BOTH (W/ SOUND BATT)



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REVISIONS/ADDENDUMS

PARTITION PLAN 'A'

AP101
OF SHEETS

216118

CODED NOTES - PARTITION PLANS

1 ALIGN
2 MASONRY CONTROL JOINT SEE STRUCTURAL DRAWINGS
3 BRICK CONTROL JOINT
4 KNEE WALL TO BE 42" ABOVE FINISH FLOOR.
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GENERAL NOTES - PARTITION PLAN

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3. ALL DOORS TO HAVE AS STANDARD A NET 4" OFFSET FROM EDGE OF DOOR TO ADJACENT/PERPENDICULAR WALL. SEE SCHEDULES FOR DOOR AND WINDOW SPECIFICATIONS, UNLESS NOTED OTHERWISE.
4. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS SHEETS FOR INTERIOR FINISH SPECIFICATIONS.
5. RATED WALLS TO BE RUN CONTINUOUS PRIOR TO ADJACENT WALLS BEING CONSTRUCTED.
6. METAL PIPE PENETRATIONS THOUGH RATED WALL PER UL SYSTEM # W-L-1290.
7. ALL GYPSUM WALL BOARD (GWB) IN PROJECT TO BE TYPE "X".
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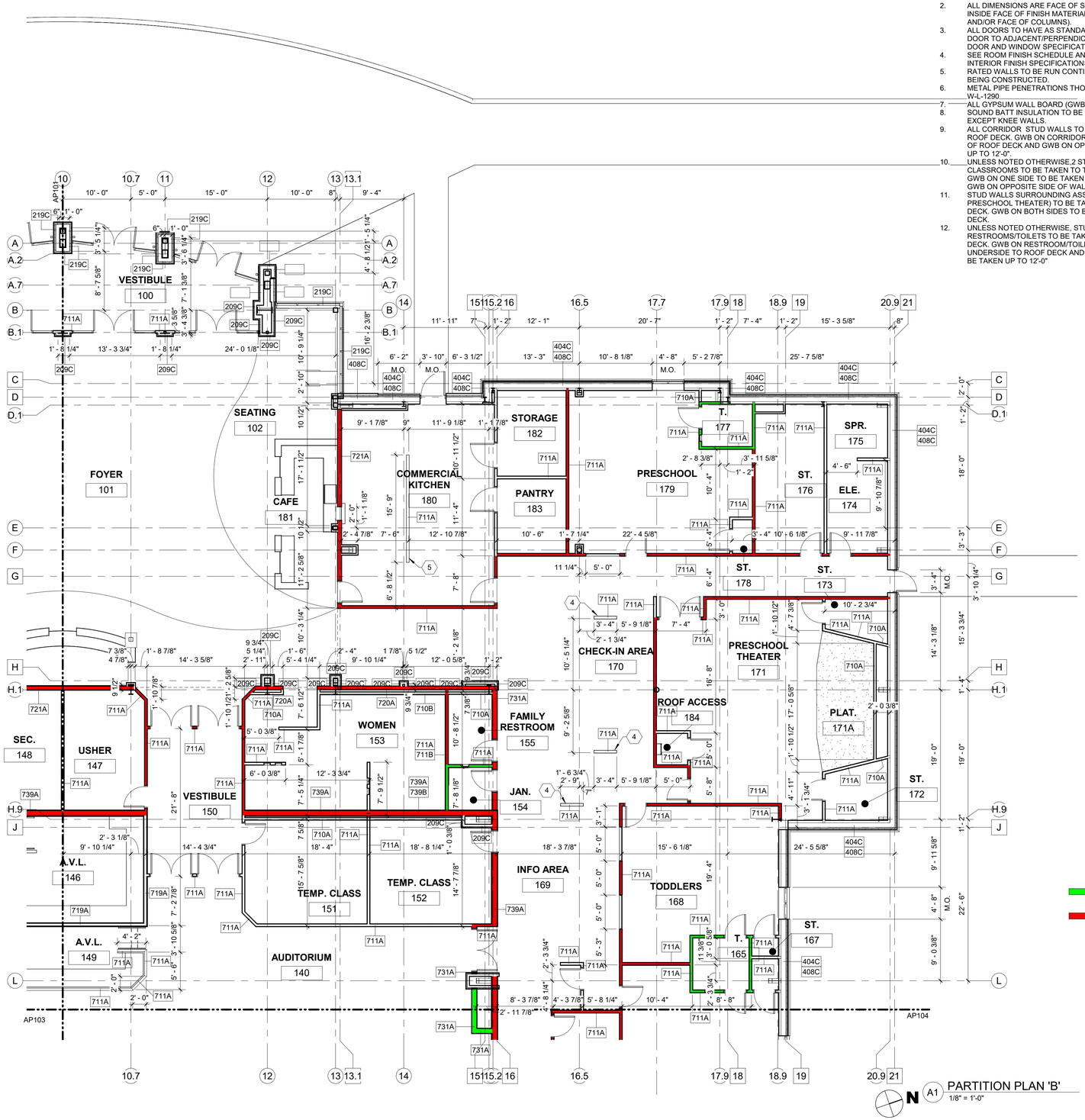

N A1 PARTITION PLAN 'B'
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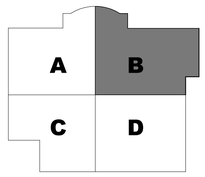
G.W.B. TIGHT TO DECK ONE SIDE (W/ SOUND BATT)
G.W.B. TIGHT TO DECK BOTH (W/ SOUND BATT)



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☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

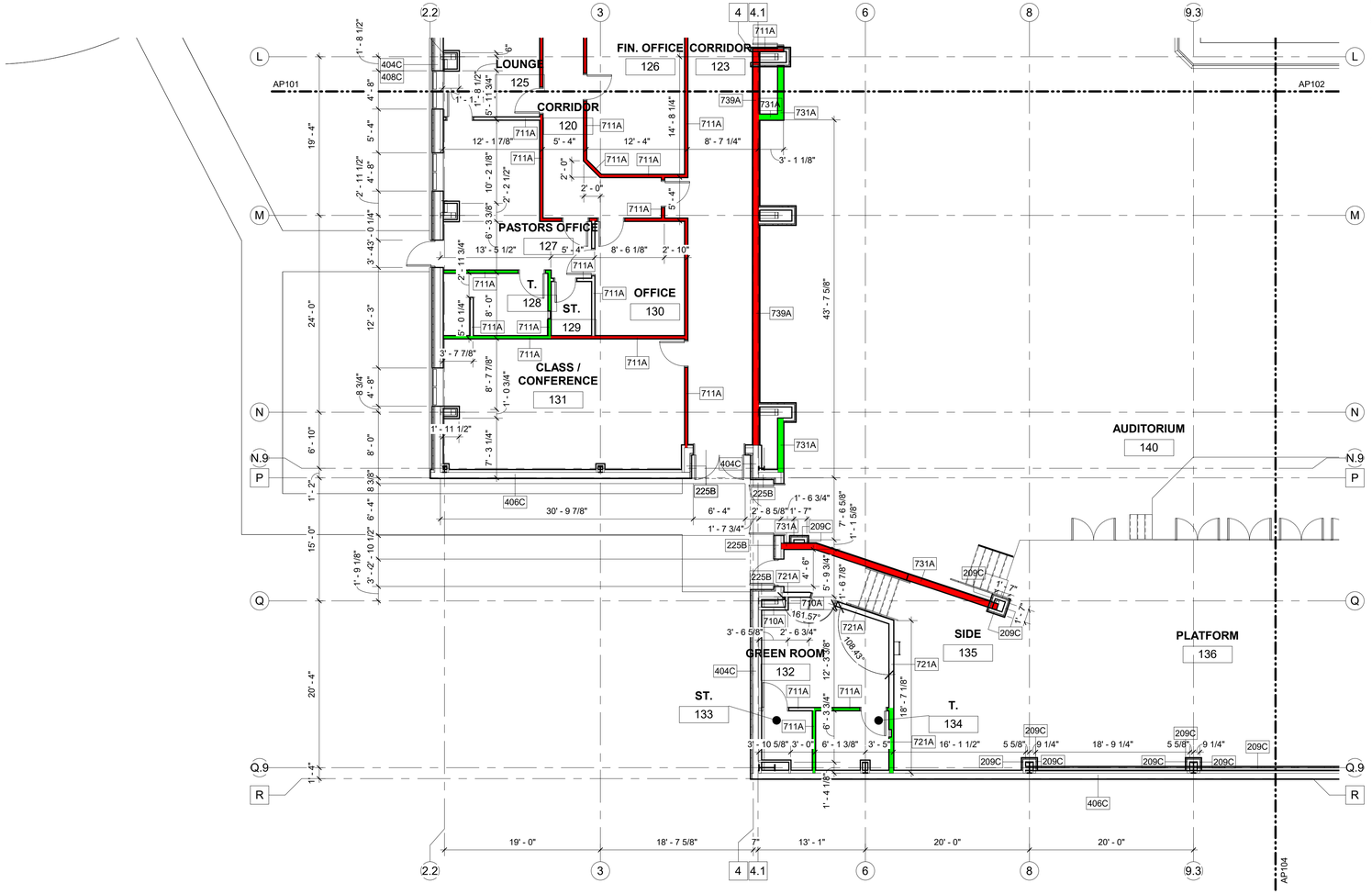
PARTITION PLAN 'B'

AP102
OF SHEETS

216118

CODED NOTES - PARTITION PLANS

1 ALIGN
2 MASONRY CONTROL JOINT SEE STRUCTURAL DRAWINGS
3 BRICK CONTROL JOINT
4 KNEE WALL TO BE 42" ABOVE FINISH FLOOR.
5 KNEE WALL TO BE 54" ABOVE FINISH FLOOR.



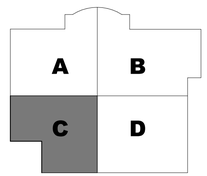
GENERAL NOTES - PARTITION PLAN

REFER TO INDEX SHEET FOR ADDITIONAL NOTES.

1. ALL WALLS TO BE TYPE 708A UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS ARE FACE OF STUD, MASONRY, GIRT, SHEATHING, INSIDE FACE OF FINISH MATERIAL, AND/OR STEEL LINES (CENTERS AND/OR FACE OF COLUMNS).
3. ALL DOORS TO HAVE AS STANDARD A NET 4" OFFSET FROM EDGE OF DOOR TO ADJACENT/PERPENDICULAR WALL. SEE SCHEDULES FOR DOOR AND WINDOW SPECIFICATIONS, UNLESS NOTED OTHERWISE.
4. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS SHEETS FOR INTERIOR FINISH SPECIFICATIONS.
5. RATED WALLS TO BE RUN CONTINUOUS PRIOR TO ADJACENT WALLS BEING CONSTRUCTED.
6. METAL PIPE PENETRATIONS THOUGH RATED WALL PER UL SYSTEM # W-L-1290
7. ALL GYPSUM WALL BOARD (GWB) IN PROJECT TO BE TYPE "X".
8. SOUND BATT INSULATION TO BE INSTALLED IN ALL STUD WALLS EXCEPT KNEE WALLS.
9. ALL CORRIDOR STUD WALLS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON CORRIDOR SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
10. UNLESS NOTED OTHERWISE,2 STUD WALLS SURROUNDING CLASSROOMS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON ONE SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
11. STUD WALLS SURROUNDING ASSEMBLY SPACES (AUDITORIUM, PRESCHOOL THEATER) TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON BOTH SIDES TO BE TAKEN TO UNDERSIDE OF ROOF DECK.
12. UNLESS NOTED OTHERWISE, STUD WALLS SURROUNDING RESTROOMS/TOILETS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON RESTROOM/TOILET SIDE TO BE TAKEN TO UNDERSIDE TO ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0"

G.W.B. TIGHT TO DECK ONE SIDE (W/ SOUND BATT)
G.W.B. TIGHT TO DECK BOTH (W/ SOUND BATT)

N
A1 PARTITION PLAN 'C'
1/8" = 1'-0"



KEY PLAN

The McKnight Group
Leaders in Innovative Church Design and Building
McKnight & Hosterman Architects, Inc.
3351 McDowell Road
P.O. Box 370
Grove City, Ohio 43123
Phone: (614) 875-1655
Fax: (614) 875-7006
www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
DD MEETING #2	09/10/2019
DD MEETING #3	10/06/2023
BID SET	11/15/2023
[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

REVISIONS/ADDENDUMS

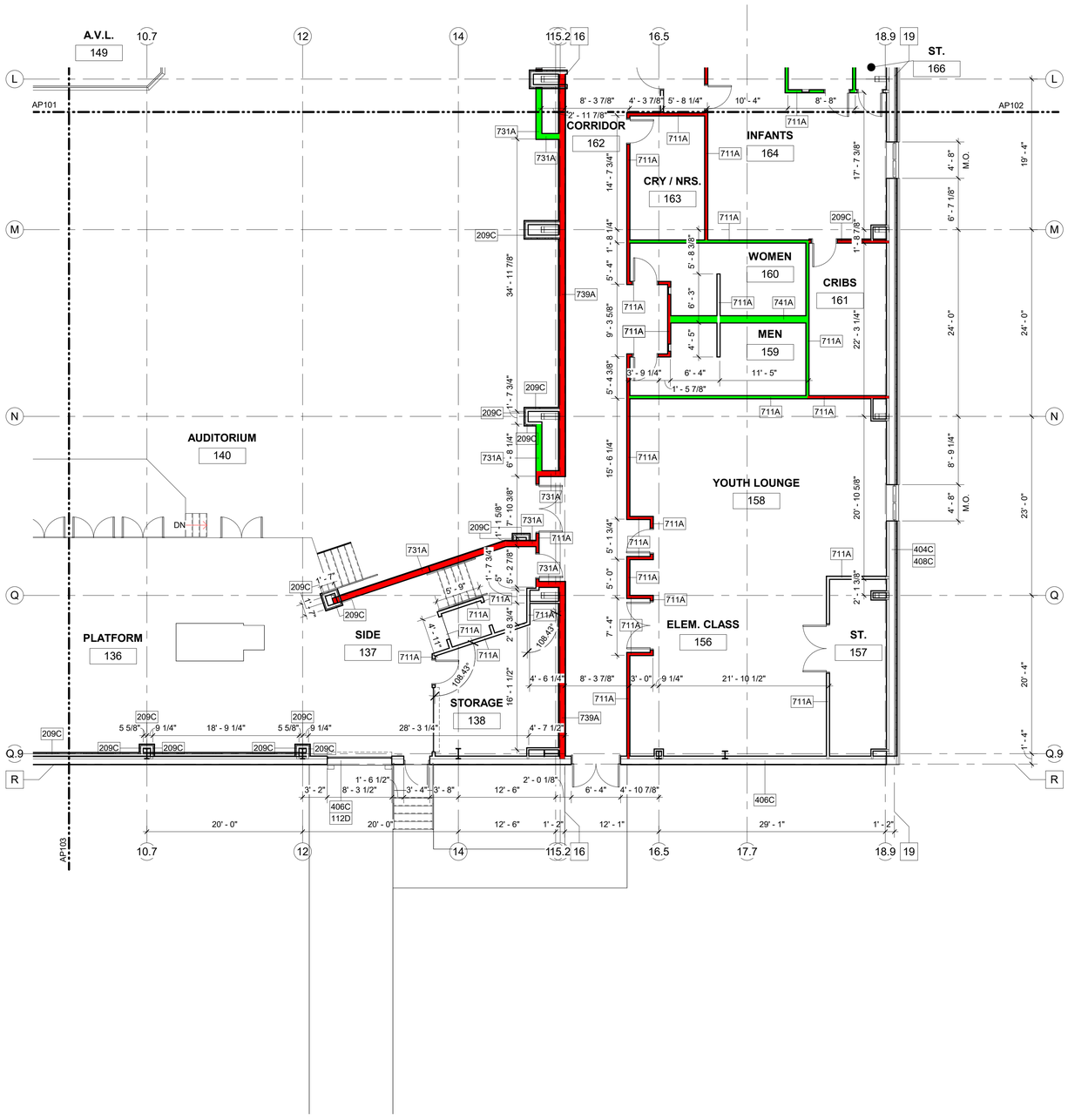
PARTITION PLAN 'C'

AP103
OF SHEETS

216118

CODED NOTES - PARTITION PLANS

1 ALIGN
2 MASONRY CONTROL JOINT SEE STRUCTURAL DRAWINGS
3 BRICK CONTROL JOINT
4 KNEE WALL TO BE 42" ABOVE FINISH FLOOR.
5 KNEE WALL TO BE 54" ABOVE FINISH FLOOR.



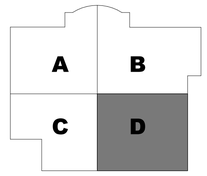
GENERAL NOTES - PARTITION PLAN

REFER TO INDEX SHEET FOR ADDITIONAL NOTES.

1. ALL WALLS TO BE TYPE 708A UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS ARE FACE OF STUD, MASONRY, GIRT, SHEATHING, INSIDE FACE OF FINISH MATERIAL, AND/OR STEEL LINES (CENTERS AND/OR FACE OF COLUMNS).
3. ALL DOORS TO HAVE AS STANDARD A NET 4" OFFSET FROM EDGE OF DOOR TO ADJACENT/PERPENDICULAR WALL. SEE SCHEDULES FOR DOOR AND WINDOW SPECIFICATIONS, UNLESS NOTED OTHERWISE.
4. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS SHEETS FOR INTERIOR FINISH SPECIFICATIONS.
5. RATED WALLS TO BE RUN CONTINUOUS PRIOR TO ADJACENT WALLS BEING CONSTRUCTED.
6. METAL PIPE PENETRATIONS THOUGH RATED WALL PER UL SYSTEM # W-L-1290
7. ALL GYPSUM WALL BOARD (GWB) IN PROJECT TO BE TYPE "X".
8. SOUND BATT INSULATION TO BE INSTALLED IN ALL STUD WALLS EXCEPT KNEE WALLS.
9. ALL CORRIDOR STUD WALLS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON CORRIDOR SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
10. UNLESS NOTED OTHERWISE,2 STUD WALLS SURROUNDING CLASSROOMS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON ONE SIDE TO BE TAKEN TO UNDERSIDE OF ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0".
11. STUD WALLS SURROUNDING ASSEMBLY SPACES (AUDITORIUM, PRESCHOOL THEATER) TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON BOTH SIDES TO BE TAKEN TO UNDERSIDE OF ROOF DECK.
12. UNLESS NOTED OTHERWISE, STUD WALLS SURROUNDING RESTROOMS/TOILETS TO BE TAKEN TO THE UNDERSIDE OF ROOF DECK. GWB ON RESTROOM/TOILET SIDE TO BE TAKEN TO UNDERSIDE TO ROOF DECK AND GWB ON OPPOSITE SIDE OF WALL TO BE TAKEN UP TO 12'-0"

G.W.B. TIGHT TO DECK ONE SIDE (W/ SOUND BATT)
G.W.B. TIGHT TO DECK BOTH (W/ SOUND BATT)

N
A1 PARTITION PLAN 'D'
1/8" = 1'-0"



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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

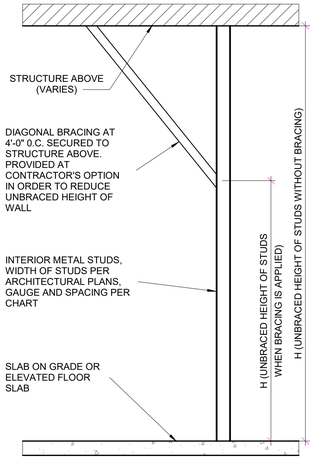
DRAWING	DATE
DD MEETING #2	09/10/2019
DD MEETING #3	10/06/2023
BID SET	11/15/2023
[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

REVISIONS/ADDENDUMS

PARTITION PLAN 'D'

AP104
OF SHEETS

216118



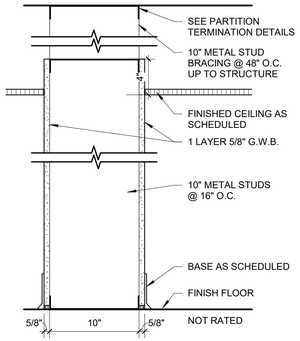
C4 METAL STUD SIZES
3/8" = 1'-0"

INTERIOR NON-LOAD-BEARING STUD WALL SCHEDULE

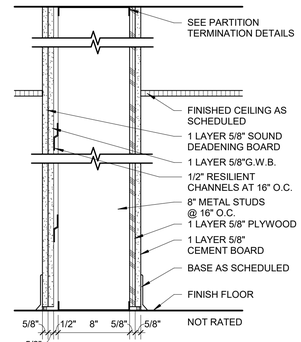
STUD SIZE		3 5/8"				6"						8"			
STUD GAUGE		20 GA.		18 GA.		20 GA.		18 GA.		16 GA.		18 GA.		16 GA.	
STUD SPACING		24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"
H = UNBRACED HEIGHT OF STUD WALL	10'-0"	■													
	12'-0"	■													
	14'-0"	■													
	16'-0"			■											
	18'-0"					■									
	20'-0"					■									
	22'-0"					■									
	24'-0"							■							
	26'-0"									■					
	28'-0"														
	30'-0"														
	32'-0"														
	34'-0"														
	36'-0"														
	38'-0"														

■ SHADED BLOCKS INDICATE ACCEPTABLE SIZE AND SPACING OF STUDS

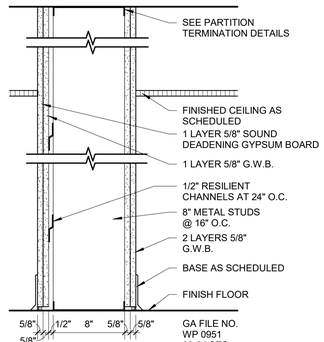
■ SOLID BLOCKS INDICATE MOST ECONOMICAL SELECTION FOR GIVEN HEIGHT



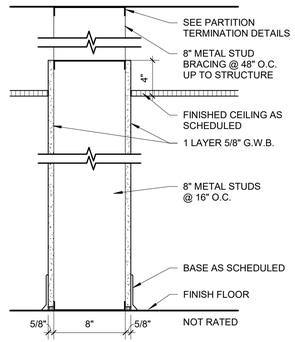
D3 741A
1 1/2" = 1'-0"



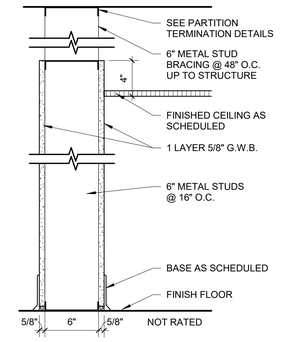
C3 739B
1 1/2" = 1'-0"



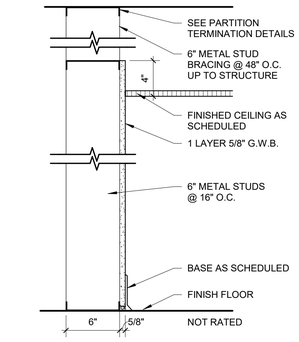
C2 739A
1 1/2" = 1'-0"



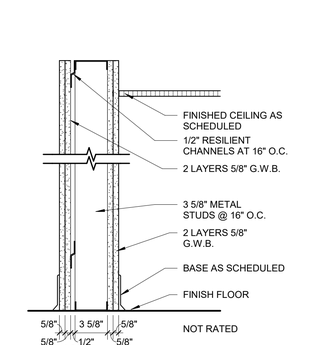
C1 731A
1 1/2" = 1'-0"



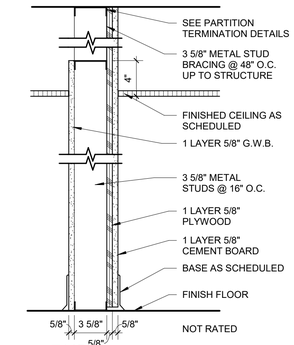
B4 721A
1 1/2" = 1'-0"



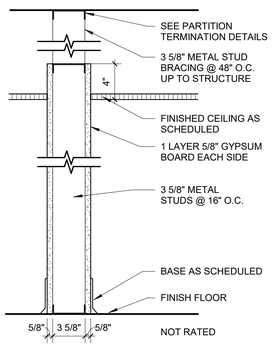
B3 720A
1 1/2" = 1'-0"



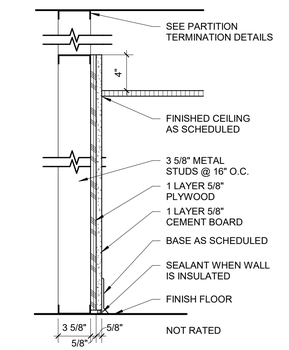
B2 719A
1 1/2" = 1'-0"



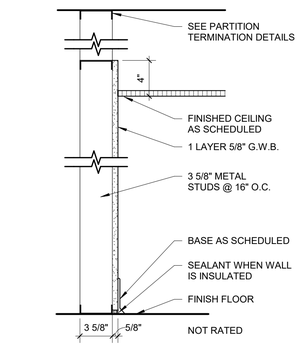
B1 711B
1 1/2" = 1'-0"



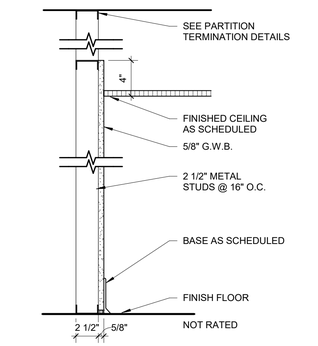
A5 711A
1 1/2" = 1'-0"



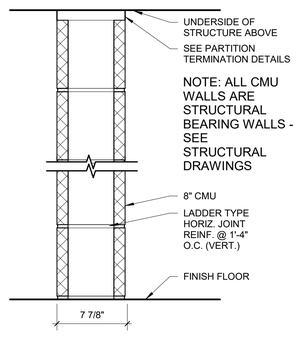
A4 710B
1 1/2" = 1'-0"



A3 710A
1 1/2" = 1'-0"



A2 708A
1 1/2" = 1'-0"



A1 620A
1 1/2" = 1'-0"

PARTITION TYPE GENERAL NOTES

1. STUDS TO BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE.
2. OPENINGS THROUGH THE PARTITION ASSEMBLY AND ITS ENTIRE PERIMETER MUST BE SEALED AIRTIGHT TO OBTAIN THE SOUND TRANSMISSION CLASS (STC) INDICATED. PROVIDE SEALANT AT BOTH FLOOR AND AT CEILING ON BOTH SIDES OF THE PARTITION.
3. PROVIDE CROSS BRACING OR BLOCKING IN PARTITIONS AS REQUIRED TO SECURE WALL MOUNTED ACCESSORIES. PARTITION CONTRACTOR TO COORDINATE LOCATION OF BLOCKING WITH RESPECTIVE ITEM SUPPLIER.
4. GYPSUM BOARD CEILINGS TO BE DIRECTLY ATTACHED TO METAL STUD CEILING FRAMING OR APPROVED SUSPENDED FRAMING SYSTEM.
5. PROVIDE FULL HEIGHT DOUBLE STUDS AT EACH SIDE OF ALL OPENINGS.
6. NEW PARTITIONS TO BE CONSTRUCTED USING 5/8" GYPSUM BOARD AS NOTED ON PARTITION TYPES.
7. PROVIDE DOUBLE STUDS AND CROSS BRACING AS REQUIRED FOR SUPPORT OF WALL SINKS AND TELEVISION BRACKETS UNLESS NOTED OTHERWISE.
8. EXTEND WALL FINISH (THIRD) COAT OF GYPSUM WALL BOARD TOPPING COMPOUND TO 6" ABOVE CEILING. PAINTER SHALL APPLY PRIMER COAT PRIOR TO INSTALLATION OF CEILING TRACK.
9. CHASE WALLS SHALL BE INSULATED ON THE NON-PLUMBING FACE OF WALL.
10. PROVIDE ACOUSTIC SEALANT AT BASE OF PARTITIONS UNLESS NOTED OTHERWISE.
11. REFER TO DRAWINGS FOR WALL HEIRARCHY DIAGRAM. DIAGRAM IDENTIFIES CONTINUITY OF SMOKE BARRIERS AND FIRE PARTITIONS AT WALL INTERSECTIONS.
12. PROVIDE DOUBLE STUDS AND CROSS BRACING AS REQUIRED AT EACH SIDE OF DOORS / DOOR FRAMES WHERE PARTITION LENGTH IS LESS THAN 1'-4". BRACE AND/OR OFFSET PARTITIONS WHERE PARTITIONS ARE PARALLEL WITH MECHANICAL DUCTWORK AND PARTITION CAN NOT EXTEND VERTICALLY TO STRUCTURE ABOVE.

5 4 3 2 1

D C B A

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NEW BUILDING FOR:
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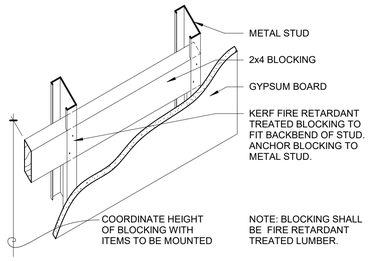
REVISIONS/ADDENDUMS

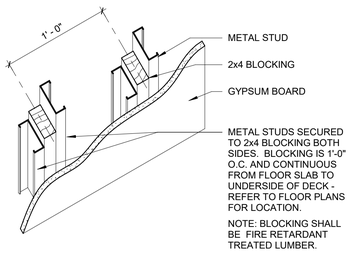
INTERIOR WALL TYPES

AP105
OF SHEETS

216118



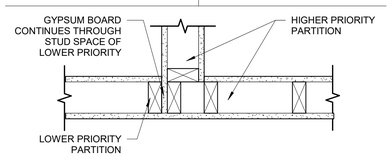
D5 WOOD BLOCKING
1 1/2" = 1'-0"



D4 WOOD BLOCKING
1 1/2" = 1'-0"

PARTITION PRIORITY LEGEND

PARTITION FIRE RATING	PRIORITY
3 HOUR FIRE WALL	1
2 HOUR FIRE WALL	2
2 HOUR FIRE BARRIER	3
2 HOUR SMOKE BARRIER	4
1 HOUR FIRE BARRIER	5
1 HOUR SMOKE BARRIER	6
1 HOUR FIRE PARTITION	7
SMOKE PARTITION	8
ACOUSTICAL PARTITION	9
NON RATED PARTITION	10
EXTERIOR WALL	11

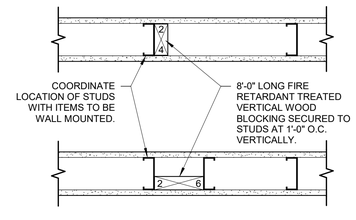


D3 PARTITION PRIORITY DIAGRAM
1 1/2" = 1'-0"

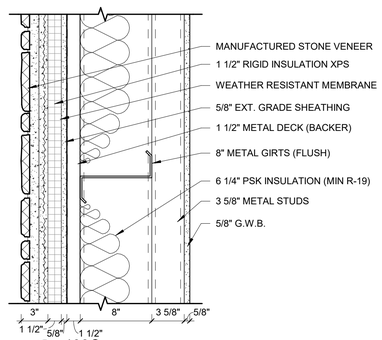
PARTITION TYPE GENERAL NOTES

1. STUDS TO BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE.
2. OPENINGS THROUGH THE PARTITION ASSEMBLY AND ITS ENTIRE PERIMETER MUST BE SEALED AIRTIGHT TO OBTAIN THE SOUND TRANSMISSION CLASS (STC) INDICATED. PROVIDE SEALANT AT BOTH FLOOR AND AT CEILING ON BOTH SIDES OF THE PARTITION.
3. PROVIDE CROSS BRACING OR BLOCKING IN PARTITIONS AS REQUIRED TO SECURE WALL MOUNTED ACCESSORIES. PARTITION CONTRACTOR TO COORDINATE LOCATION OF BLOCKING WITH RESPECTIVE ITEM SUPPLIER.
4. GYPSUM BOARD CEILINGS TO BE DIRECTLY ATTACHED TO METAL STUD CEILING FRAMING OR APPROVED SUSPENDED FRAMING SYSTEM.
5. PROVIDE FULL HEIGHT DOUBLE STUDS AT EACH SIDE OF ALL OPENINGS.
6. NEW PARTITIONS TO BE CONSTRUCTED USING 5/8" GYPSUM BOARD AS NOTED ON PARTITION TYPES.
7. PROVIDE DOUBLE STUDS AND CROSS BRACING AS REQUIRED FOR SUPPORT OF WALL SINKS AND TELEVISION BRACKETS UNLESS NOTED OTHERWISE.
8. EXTEND WALL FINISH (THIRD) COAT OF GYPSUM WALL BOARD TOPPING COMPOUND TO 6" ABOVE CEILING. PAINTER SHALL APPLY PRIMER COAT PRIOR TO INSTALLATION OF CEILING TRACK.
9. CHASE WALLS SHALL BE INSULATED ON THE NON-PLUMBING FACE OF WALL.
10. PROVIDE ACOUSTIC SEALANT AT BASE OF PARTITIONS UNLESS NOTED OTHERWISE.
11. REFER TO DRAWINGS FOR WALL HEIRARCHY DIAGRAM. DIAGRAM IDENTIFIES CONTINUITY OF SMOKE BARRIERS AND FIRE PARTITIONS AT WALL INTERSECTIONS.
12. PROVIDE DOUBLE STUDS AND CROSS BRACING AS REQUIRED AT EACH SIDE OF DOORS / DOOR FRAMES WHERE PARTITION LENGTH IS LESS THAN 1'-4". BRACE AND/OR OFFSET PARTITIONS WHERE PARTITIONS ARE PARALLEL WITH MECHANICAL DUCTWORK AND PARTITION CAN NOT EXTEND VERTICALLY TO STRUCTURE ABOVE.

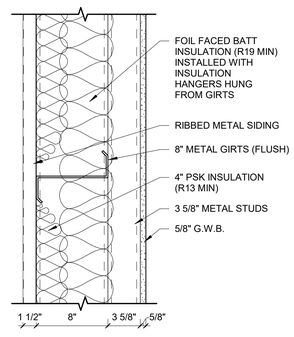
NOTE: BLOCKING SHALL BE FIRE RETARDANT TREATED LUMBER.



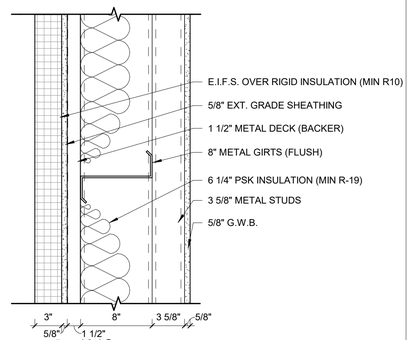
C5 WOOD BLOCKING
1 1/2" = 1'-0"



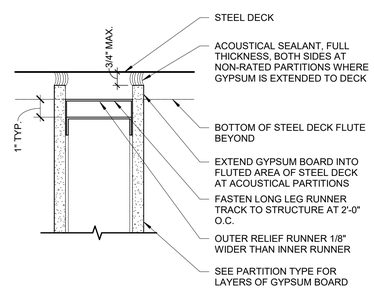
C3 408C
1 1/2" = 1'-0"



C2 406C
1 1/2" = 1'-0"

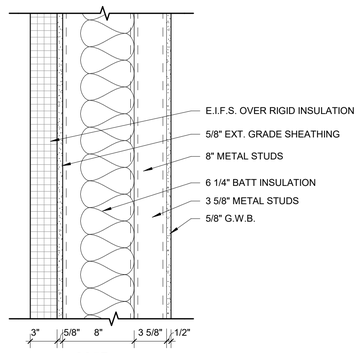


C1 404C
1 1/2" = 1'-0"

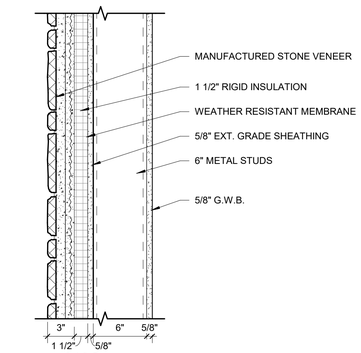


DETAIL 5B: STEEL DECK

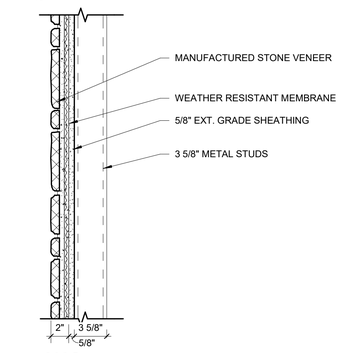
B5 PARTITION TERMINATION - GYP TO MTL DECK
3" = 1'-0"



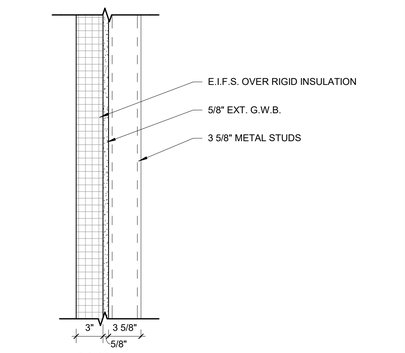
B4 225B
1 1/2" = 1'-0"



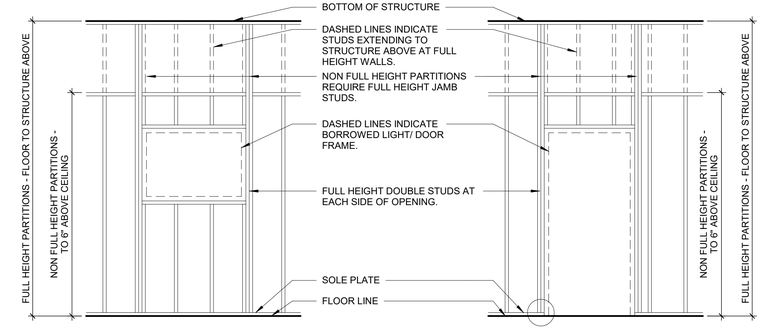
B3 219C
1 1/2" = 1'-0"



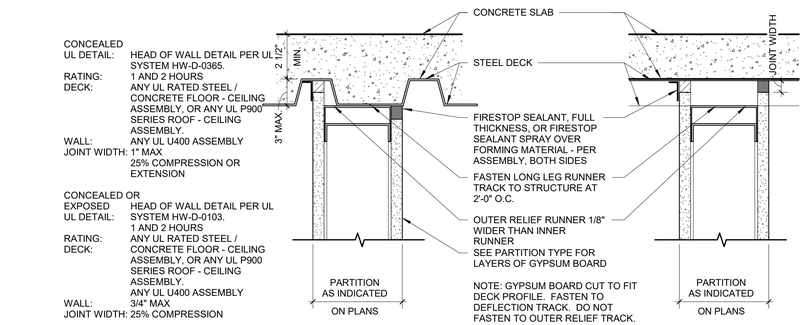
B2 209C
1 1/2" = 1'-0"



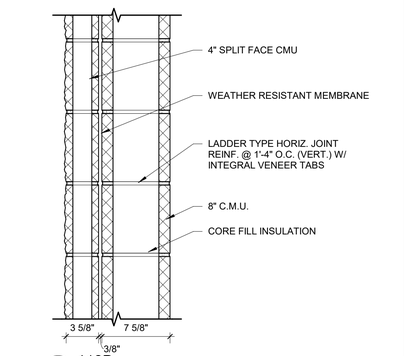
B1 204A
1 1/2" = 1'-0"



A4 BORROWED LITE AND DOOR OPENING FRAMING ELEVATION
3/8" = 1'-0"



A2 PARTITION TERMINATION - MTL STUD DECK FIRE
3" = 1'-0"



A1 112D
1 1/2" = 1'-0"

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GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
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☐ PERMIT SET	

REVISIONS/ADDENDUMS

EXTERIOR WALL TYPES

AP106
OF SHEETS

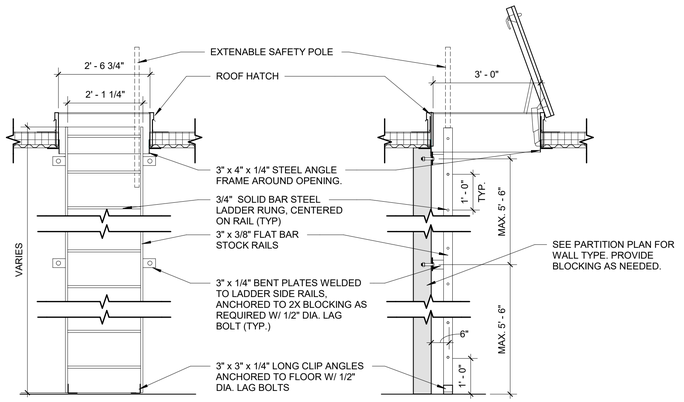
216118

5 4 3 2 1

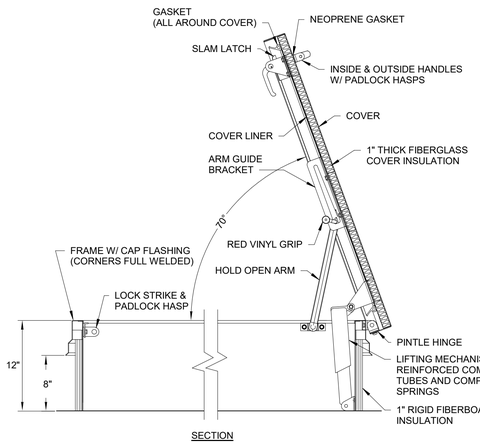
D C B A

CODED NOTES - ROOF PLAN

1 NEW ROOF TOP EQUIPMENT, SEE HVAC DRAWINGS
2 5" W x 4" H GUTTER AND DOWNSPOUTS, SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS
3 INSTALL NEW MODIFIED BITUMEN ROOFING SYSTEM IN THIS AREA OVER MIN R20 INSULATION, PROVIDE TAPERED INSULATION
4 TAPERED INSULATION SADDLE - SLOPE TO BE 1/2" / 12"
5 NOT USED.
6 PROVIDE NEW BALLUSTRADE, SEE DETAILS AND SPECIFICATIONS
7 NEW TAPERED INSULATION CRICKET
8 PROVIDE NEW MODIFIED BITUMEN ROOF SYSTEM OVER 4" CONTINUOUS R20 INSULATION.
9 WRAP DUCTWORK IN WHITE EPDM MEMBRANCE AND PROTECT FROM EXTERIOR ELEMENTS
10 PROVIDE NEW ROOF VENTING PER CODE
11 NEW ROOF DRAIN, SEE PLUMBING FOR CONTINUATION
12 ROOF ACCESS HATCH. SEE DETAIL B4 / AR101
13 OVER PARAPET ROOF LADDER. SEE DETAIL A4 / AR101

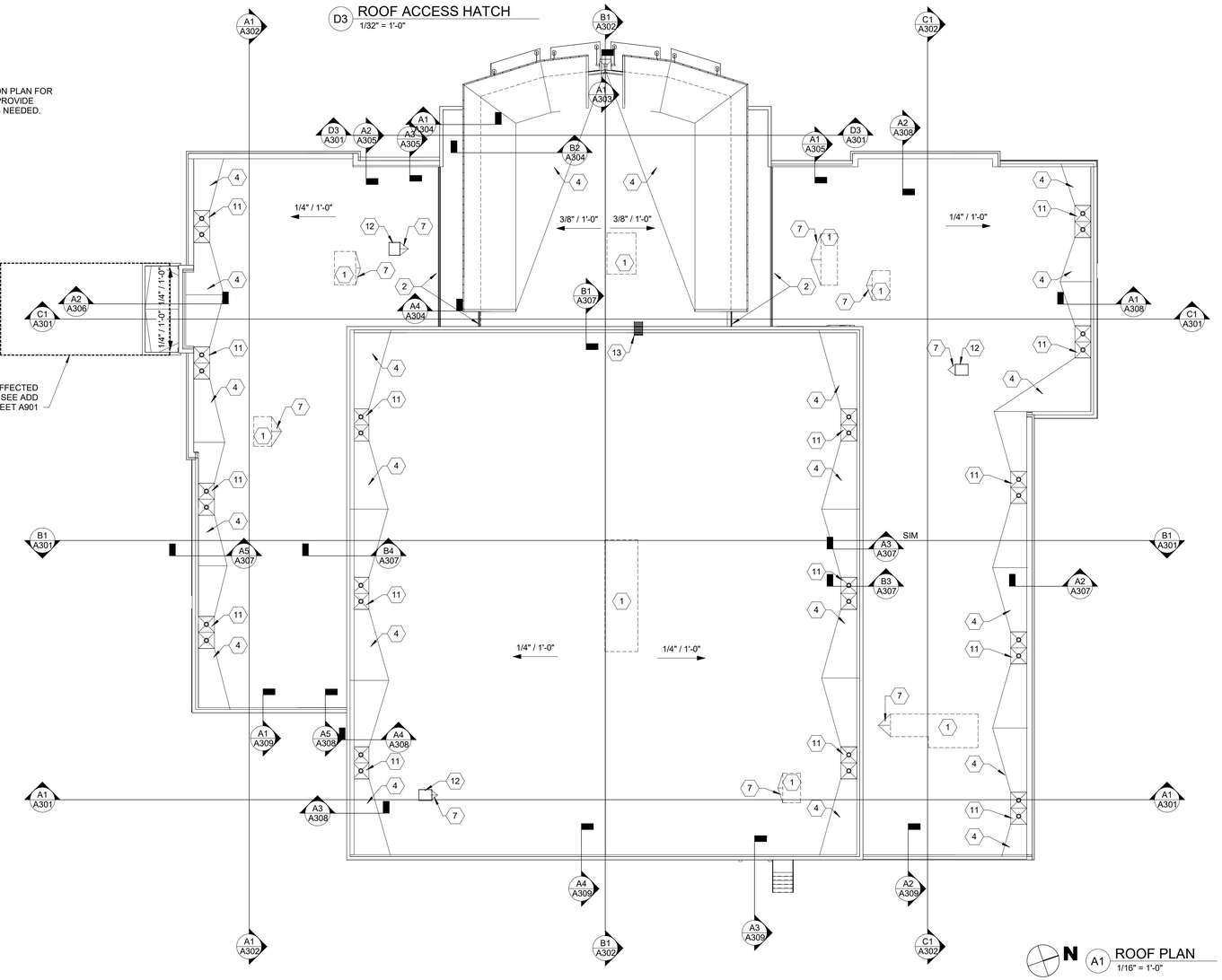


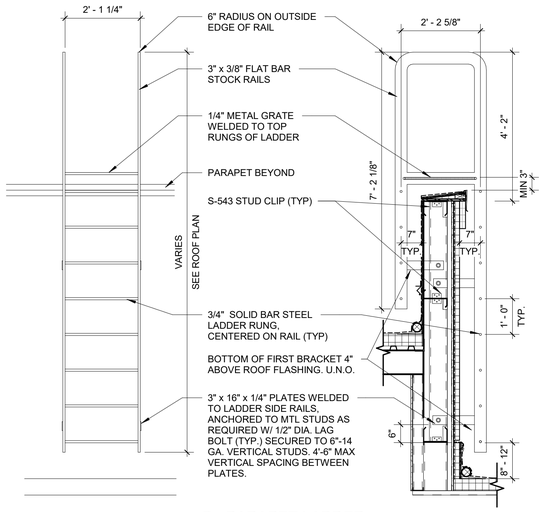
C4 ROOF ACCESS HATCH
1/2" = 1'-0"



SECTION

D3 ROOF ACCESS HATCH
1/32" = 1'-0"





A4 PARAPET LADDER
1/2" = 1'-0"

GENERAL NOTES - ROOF PLAN

REFER TO INDEX SHEET FOR ADDITIONAL NOTES.

1. CONTRACTOR IS RESPONSIBLE TO VISIT SITE AND DETERMINE EXTENT AND ACTUAL NATURE OF WORK.
2. ACCESS FOR HVAC, PLUMBING AND ELECTRICAL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE IN ADVANCE OF PLANNING WORK AT AREAS ABOVE AND BELOW PLANNED WORK.
3. CHECK THE UNDERSIDE OF THE DECKING TO MAKE SURE THAT THE CONDUIT DOES NOT RUN DIRECTLY UNDER THE DECKING, WHERE THE SCREWS COULD POSSIBLY PENETRATE THE CONDUIT.
4. ALL WOOD NAILER AND WOOD FASCIA SHOULD BE COVERED BY THE MODIFIED MEMBRANE AND THE SPECIFIED METAL DETAIL. USE SCREWS AND/OR RING SHANK NAILS WHEN INSTALLING THE WOOD.
5. INSTALL SADDLES IN BETWEEN ALL ROOF DRAINS.
6. INSTALL CRICKETS ON HIGH SIDE OF ALL ROOF OBSTRUCTIONS.
7. INSTALL PITCH POCKETS AT ALL CIRCULAR ROOF PENETRATIONS
8. RAISE ALL ROOF PENETRATIONS TO A MINIMUM OF 8" ABOVE TOP OF INSULATION.
9. INSTALL NEW 24 GAUGE, KYNAR FINISH, PERIMETER FASCIA AND PROJECTION SHEET METAL DETAILS PER SMACNA AND WARRANTING ROOF SYSTEM MANUFACTURER'S REQUIREMENTS. ANY EXISTING FASCIA THAT IS EXPOSED BY THE NEW ROOFING SYSTEM MUST BE COVERED WITH AN ADDITIONAL PIECE OF METAL FASCIA.
10. INSTALL CANTS AT THE BASE OF ALL WALL AND PENETRATION FLASHINGS.
11. INSTALL NEW SURFACE MOUNTED COUNTERFLASHINGS ABOVE ALL WALL FLASHINGS. ALL FLASHINGS SHOULD RECEIVE A TERMINATION BAR AND A THREE COURSING OF ROOF CEMENT AND MESH THAT COVERS THE TOP OF THE MEMBRANE AND THE TERMINATION BAR. ALL VERTICAL TERMINATION BARS WILL ALSO RECEIVE METAL COUNTERFLASHINGS.

N A1 ROOF PLAN
1/16" = 1'-0"

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GALILEE BAPTIST CHURCH
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UPPER MARLBORO, MD 20772

DRAWING	DATE
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☐ PERMIT SET	

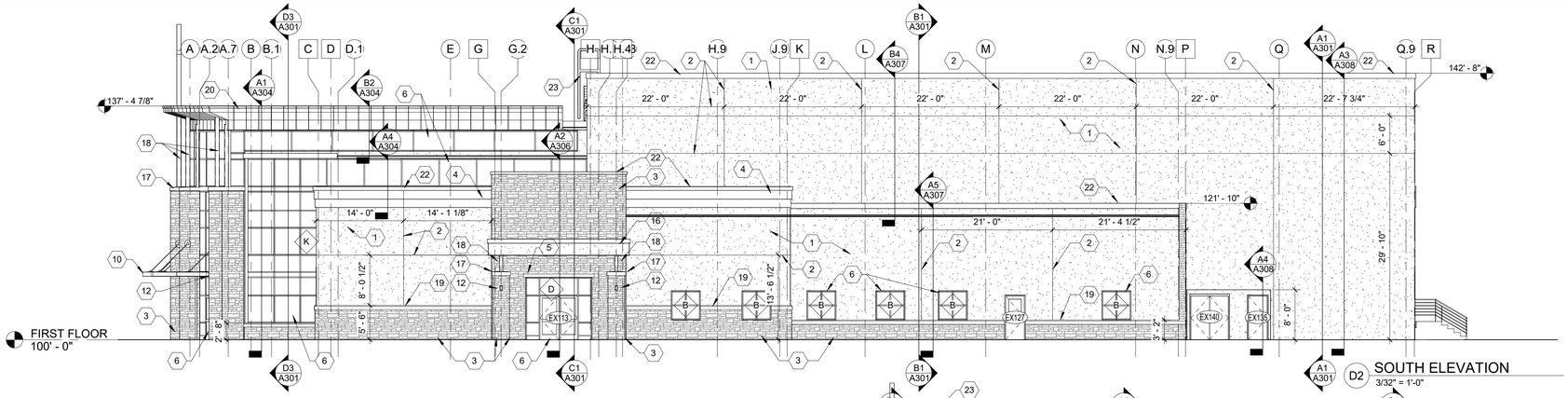
REVISIONS/ADDENDUMS

ROOF PLAN

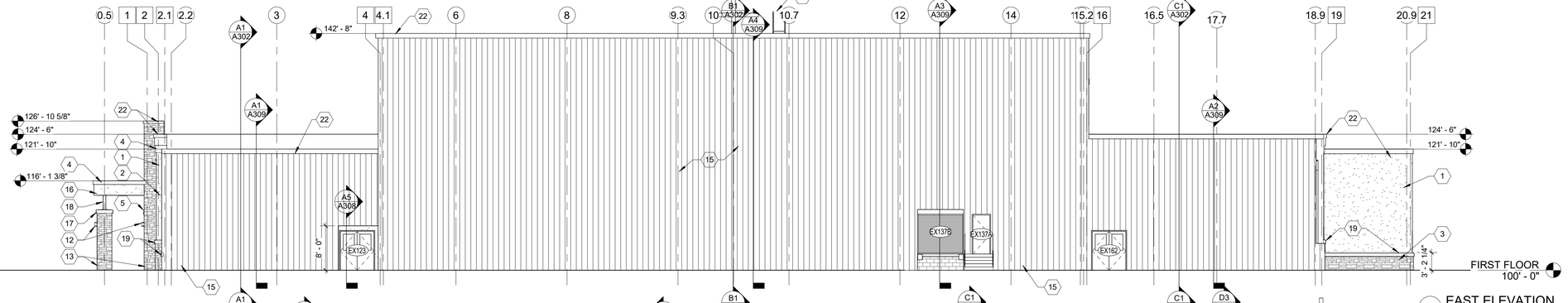
AR101
OF SHEETS

216118

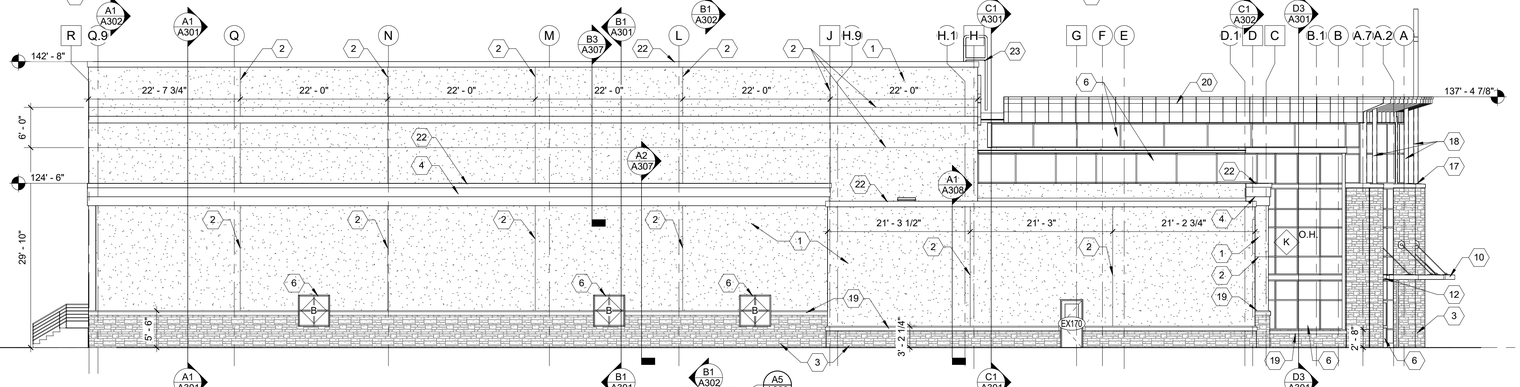
5 4 3 2 1



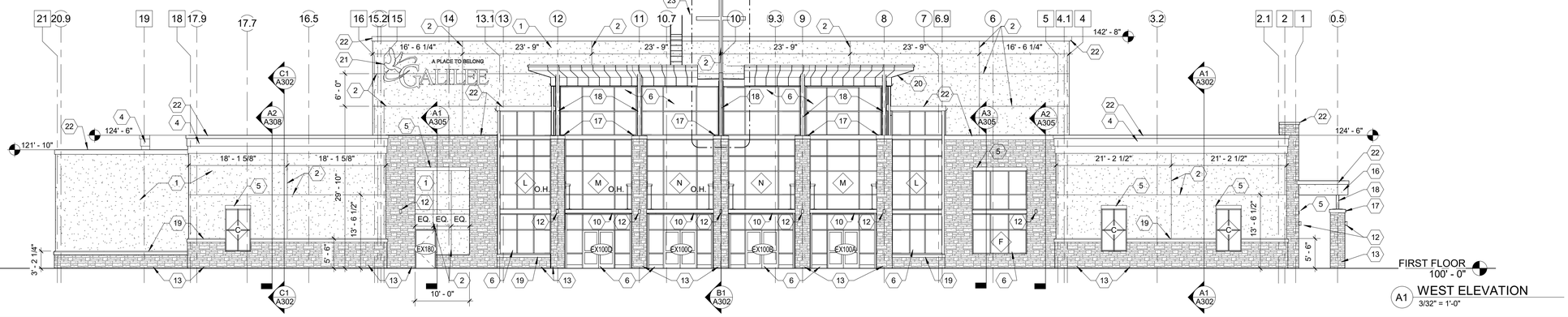
D2 SOUTH ELEVATION
3/32" = 1'-0"



C1 EAST ELEVATION
3/32" = 1'-0"



B1 NORTH ELEVATION
3/32" = 1'-0"



A1 WEST ELEVATION
3/32" = 1'-0"

CODED NOTES - EXTERIOR ELEVATION

1. E.I.F.S. 3" THICK U.N.O.
2. E.I.F.S. "V" JOINT LINE, ALIGN WITH ADJACENT WINDOW MULLIONS
3. CULTURED STONE VENEER
4. E.I.F.S. CORNICE, SEE DETAIL
5. E.I.F.S. LINTEL
6. ALUMINUM STOREFRONT SYSTEM
7. STANDARD BOX GUTTER - SEE SPECS MIN. 5"
8. SECONDARY ROOF DRAIN DOWNSPOUT, COORDINATE WITH SITE CONTRACTOR
9. PRECAST COPING
10. PRE FABRICATED CANOPY SYSTEM. SEE SPECIFICATIONS FOR MORE INFO.
11. MASONRY CONTROL JOINT
12. EXTERIOR BUILDING LIGHTING - SEE ELECTRICAL DRAWINGS
13. STEP IN FOUNDATION BRICK LEDGE - SEE STRUCTURAL
14. FOOTING AS SCHEDULED - SEE FOUNDATION PLANS
15. RIBBED METAL SIDING
16. CANTILEVERED CANOPY, SEE DETAILS
17. CONCRETE COLUMN CAP
18. BREAK METAL WRAPPED TUBE STEEL. FINISH TO MATCH STOREFRONT SYSTEM. SEE STRUCTURAL FOR DETAILS
19. PRECAST CONCRETE SILL
20. METAL COMPOSITE PANEL SYSTEM, SEE SPECS.
21. SIGNAGE BY SEPARATE CONTRACT. COORDINATE WITH OWNER. PROVIDE POWER AND NECESSARY BLOCKING IN THIS AREA.
22. PRE-FINISHED COPING METAL
23. OVER PARAPET LADDER. SEE DETAIL A4 / AR101

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GALILEE BAPTIST CHURCH
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UPPER MARLBORO, MD 20772

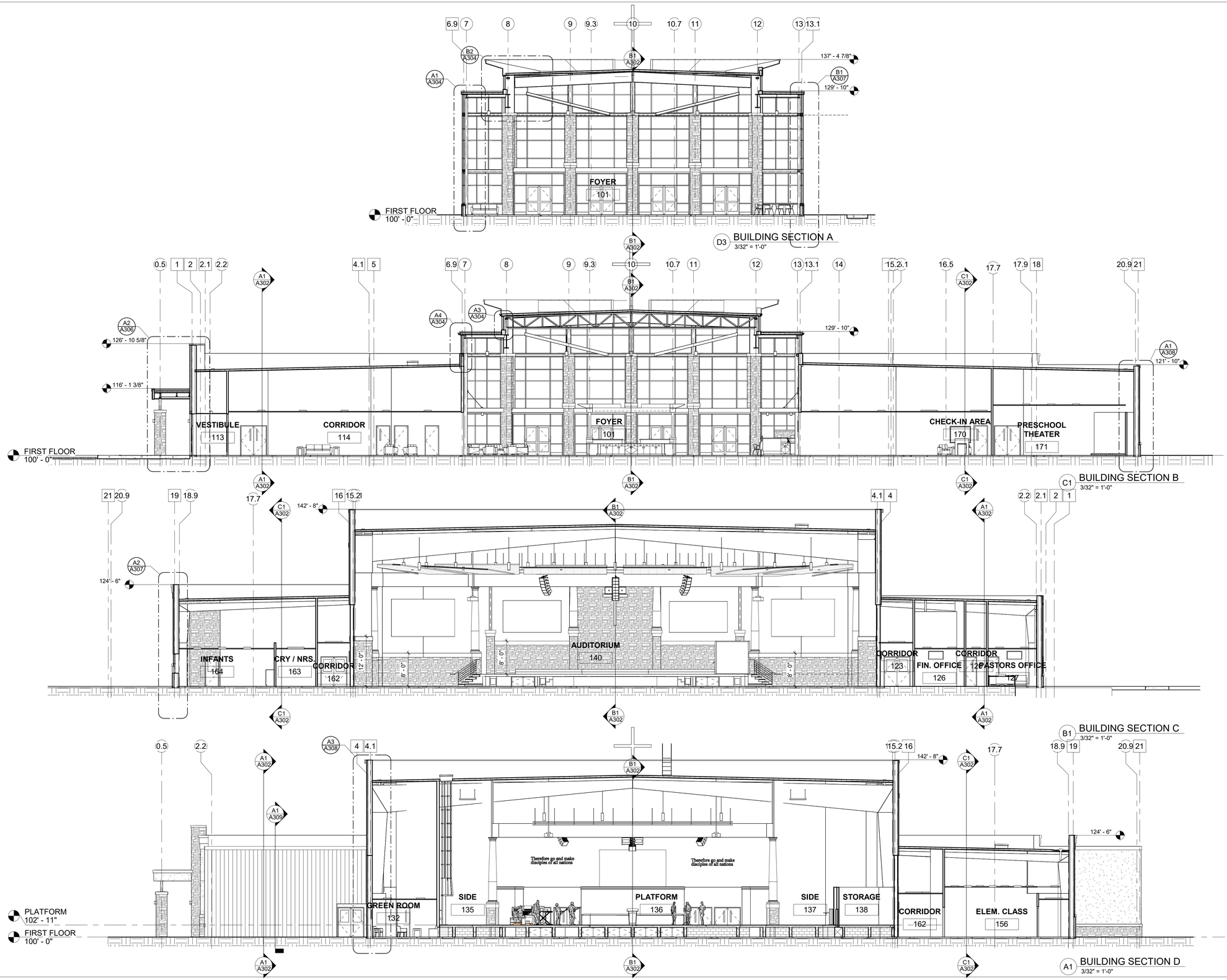
DRAWING	DATE
☐ DD MEETING #2	29 OCT 2012 19
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

EXTERIOR ELEVATIONS

A201
OF SHEETS

216118



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☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

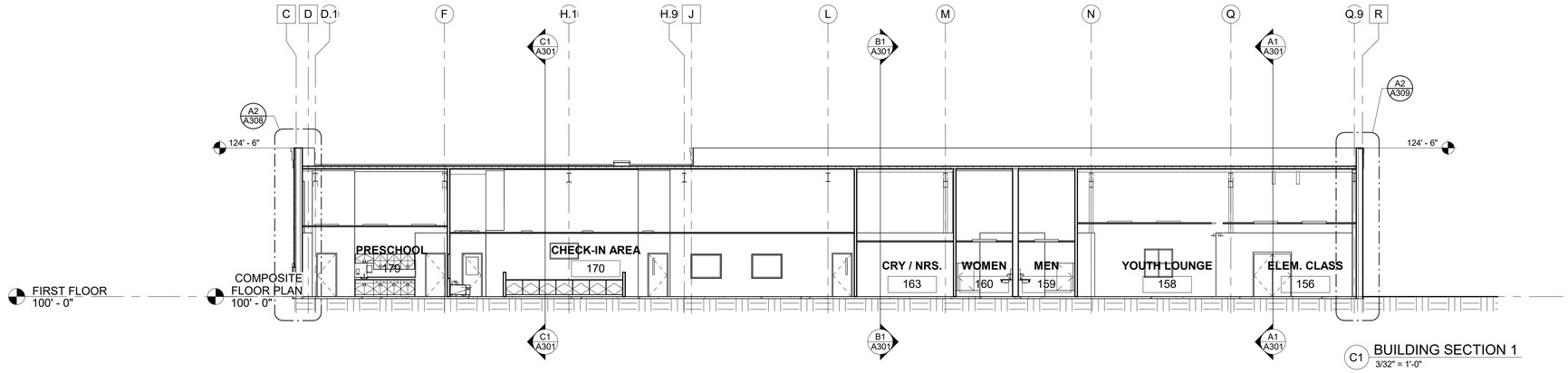
REVISIONS/ADDENDUMS

BUILDING SECTIONS

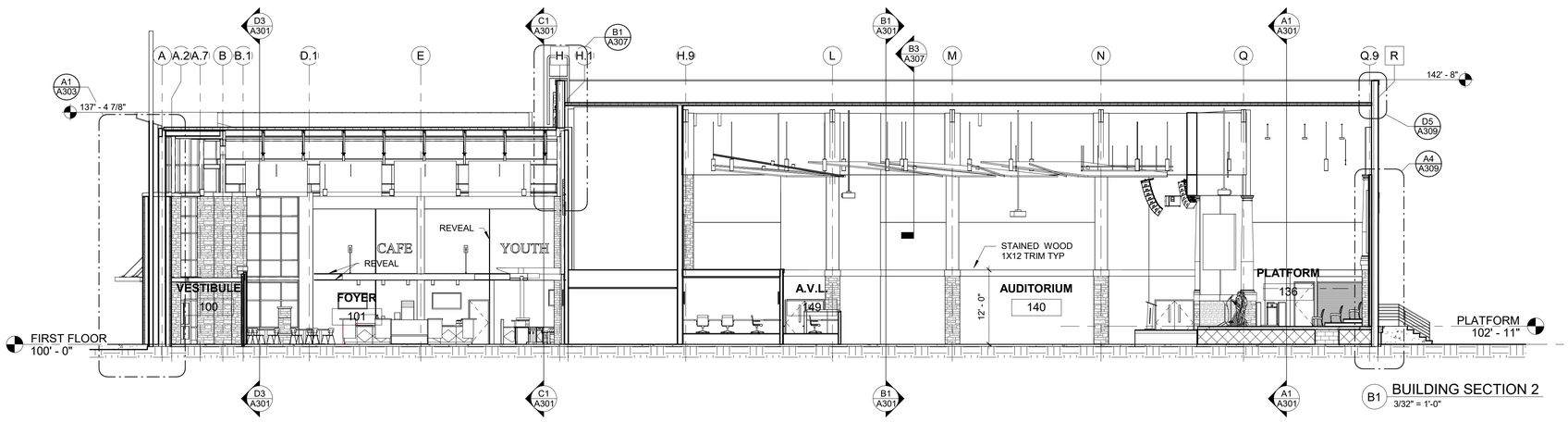
A301

OF SHEETS

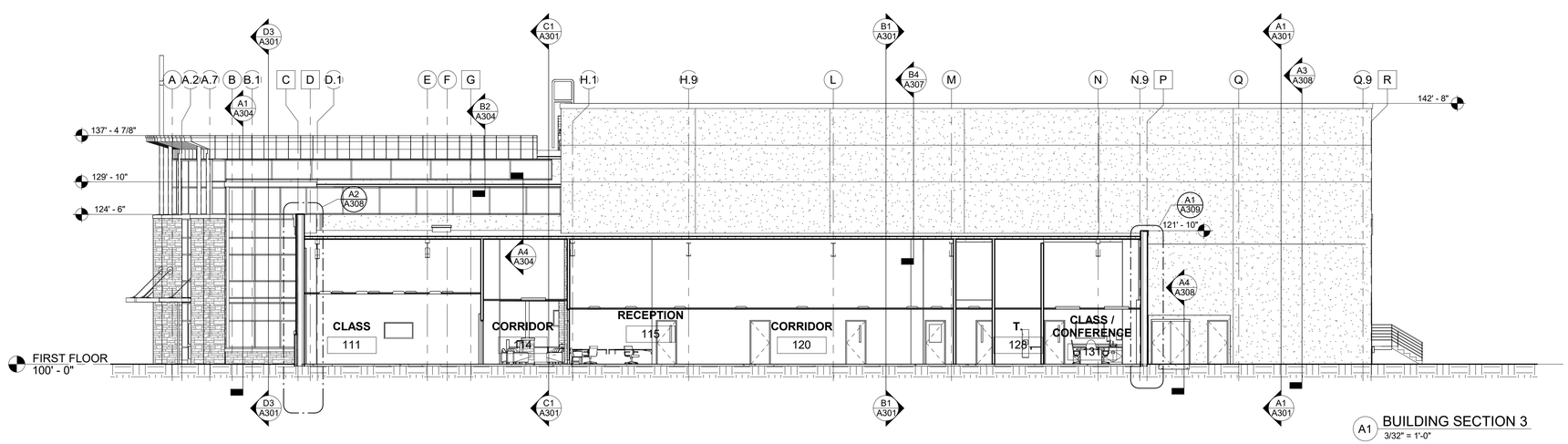
216118



C1 BUILDING SECTION 1
3/32" = 1'-0"



B1 BUILDING SECTION 2
3/32" = 1'-0"



A1 BUILDING SECTION 3
3/32" = 1'-0"

5 4 3 2 1

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GALILEE BAPTIST CHURCH

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PERMIT SET	

REVISIONS/ADDENDUMS

BUILDING SECTIONS

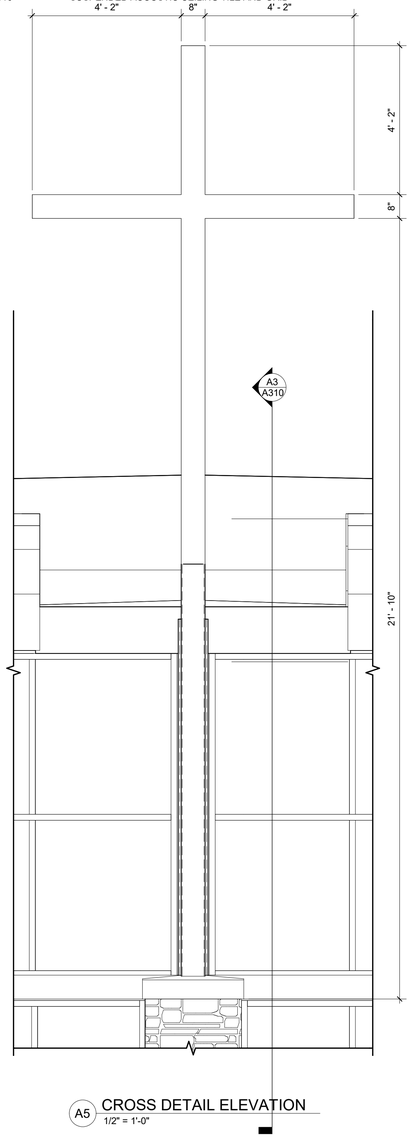
A302

OF SHEETS

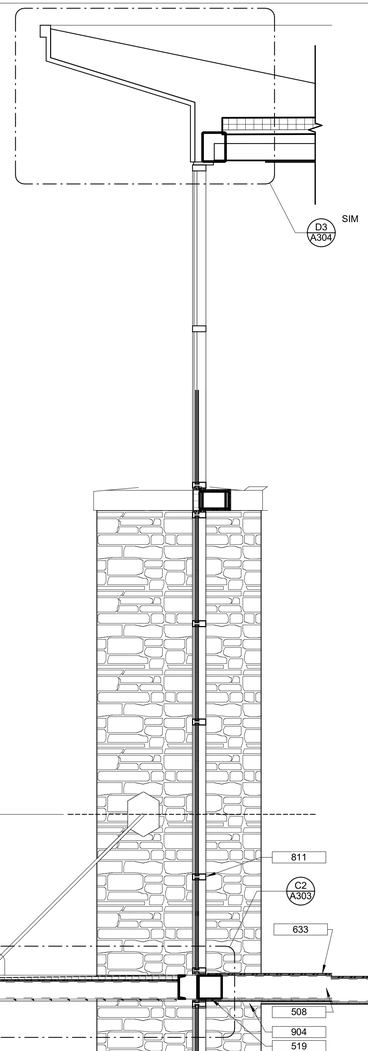
216118

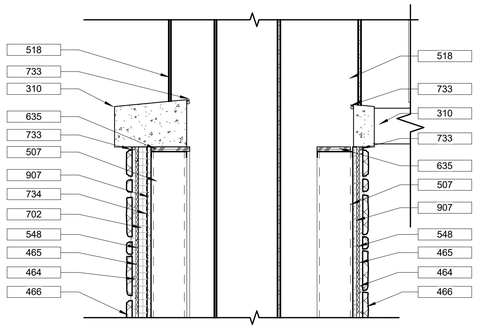
SECTION KEYED NOTES

303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
310	CAST STONE CAP
428	CONTINUOUS THRU-WALL FLASHING
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
508	8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
518	STEEL COLUMN (SEE "S" SHEETS)
519	STEEL TUBE (SEE "S" SHEETS)
520	STEEL CHANNEL (SEE "S" SHEETS)
548	METAL LATH
633	5/8" PLYWOOD
635	3/4" PLYWOOD
636	3/4" PLYWOOD (NON-COM)
702	EXTERIOR RIGID INSULATION
707	EXPANSION JOINT
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
801	DOOR AND FRAME ASSEMBLY
811	ALUMINUM STOREFRONT SYSTEM
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID

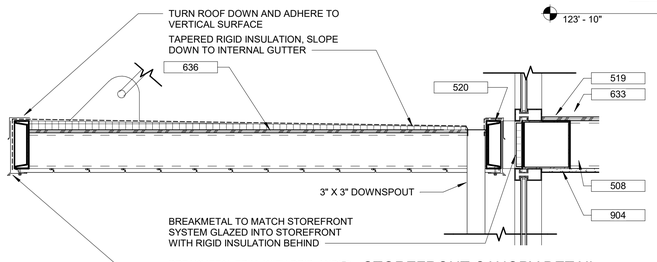


A5 CROSS DETAIL ELEVATION
1/2" = 1'-0"

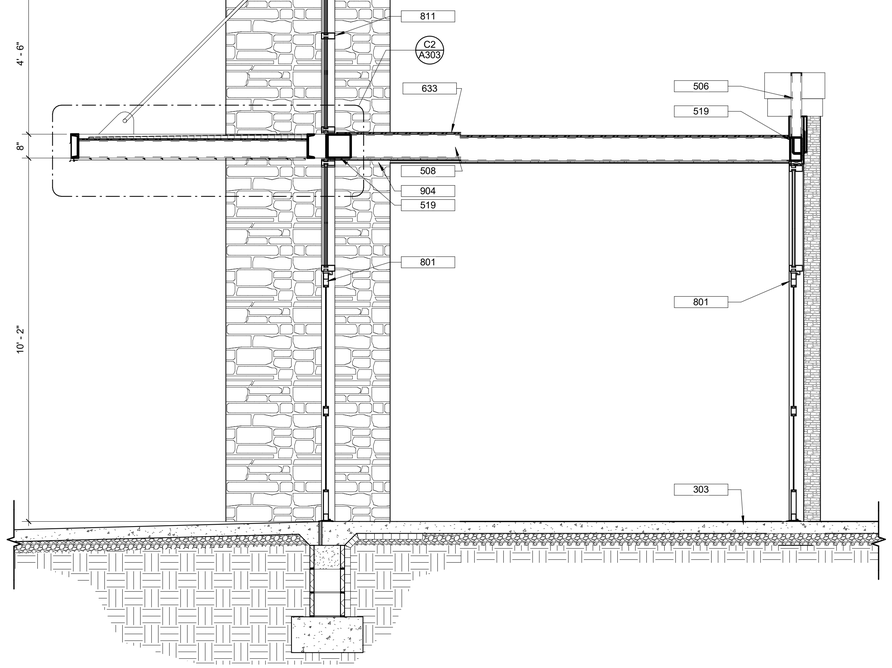




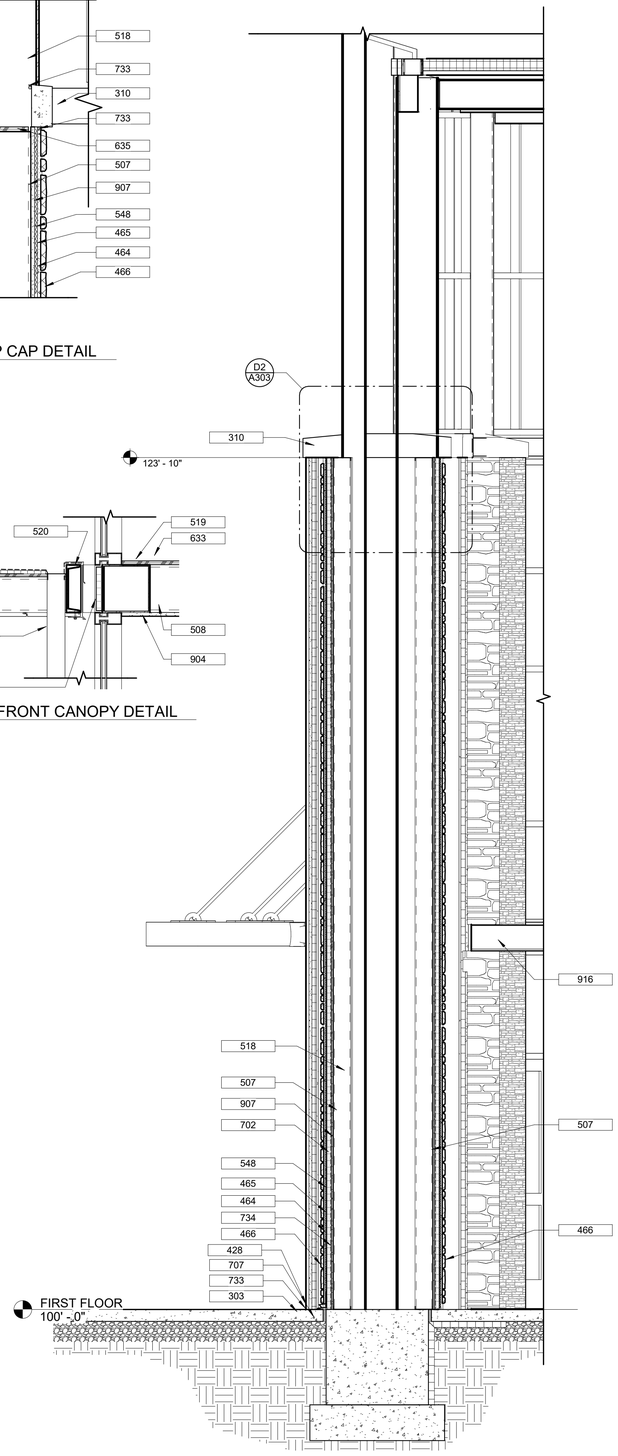
D2 STONE COLUMN WRAP CAP DETAIL
1" = 1'-0"



C2 STOREFRONT CANOPY DETAIL
1" = 1'-0"



A3 SECTION AT ENTRANCE AWNING
1/2" = 1'-0"



A1 SECTION AT ENTRANCE COLUMN
1/2" = 1'-0"

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

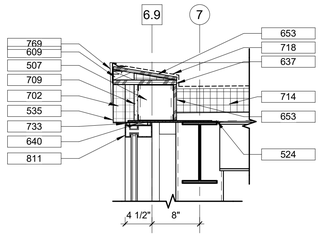
WALL SECTIONS

A303
OF SHEETS

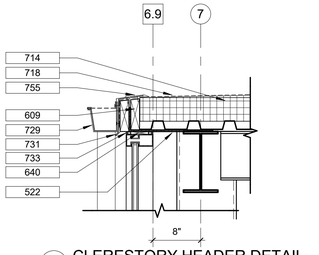
216118

5 4 3 2 1

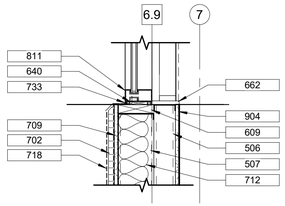
D C B A



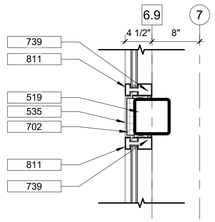
E5 CLERESTORY HEADER NO GUTTER
1" = 1'-0"



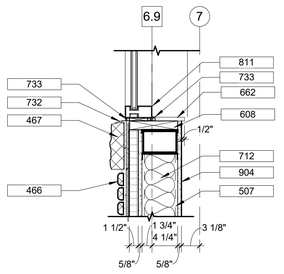
D5 CLERESTORY HEADER DETAIL
1" = 1'-0"



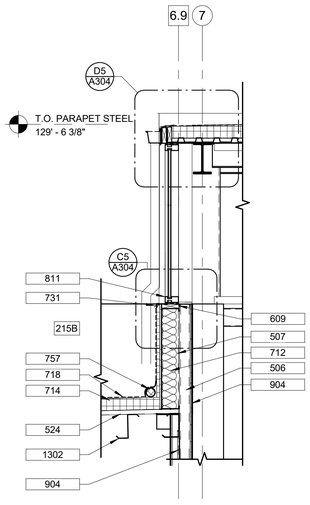
C5 CLERESTORY SILL DETAIL
1" = 1'-0"



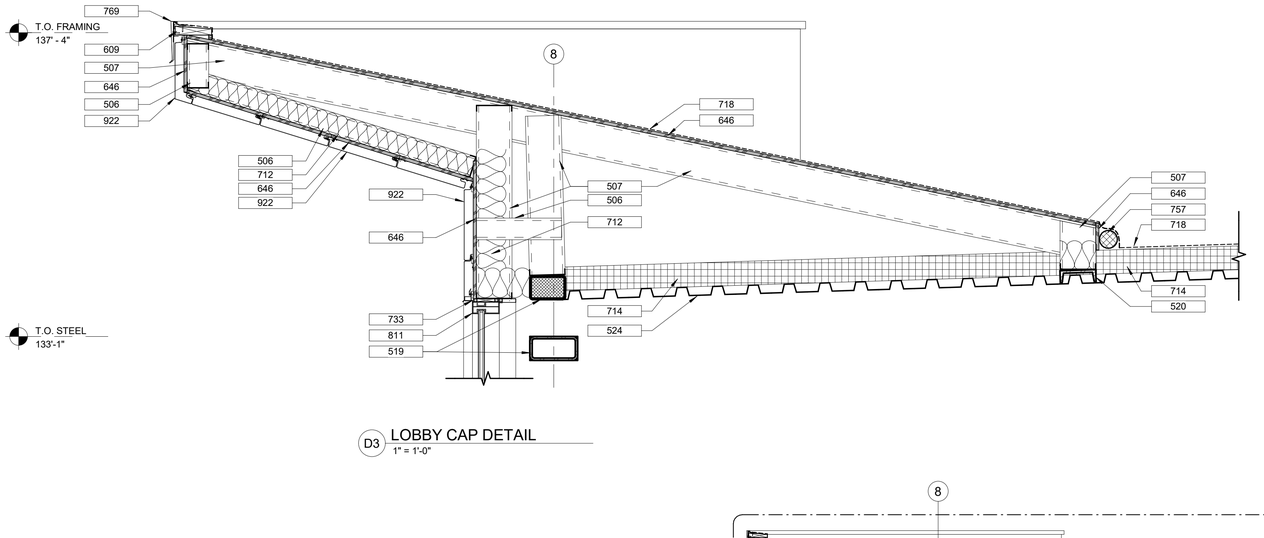
B5 STOREFRONT BREAK MULLION
1" = 1'-0"



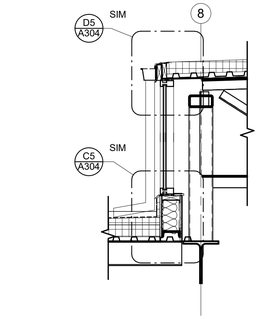
A5 STOREFRONT SILL DETAIL
1" = 1'-0"



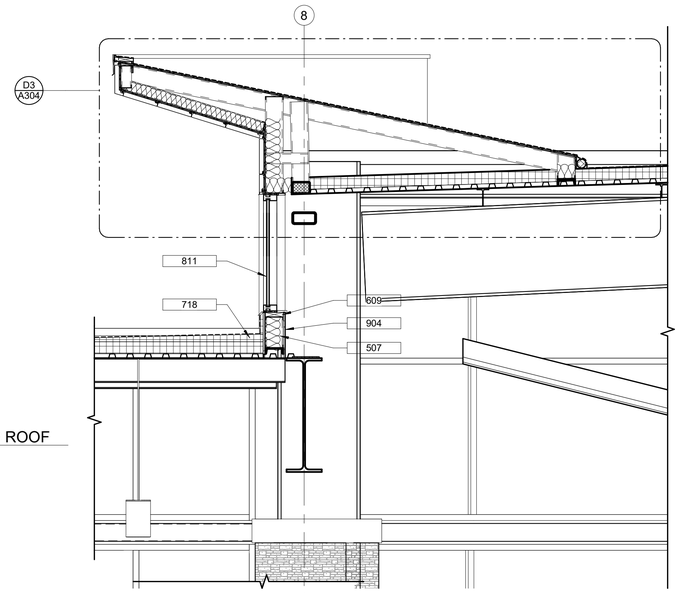
A4 CLERESTORY AT LOBBY
1/2" = 1'-0"



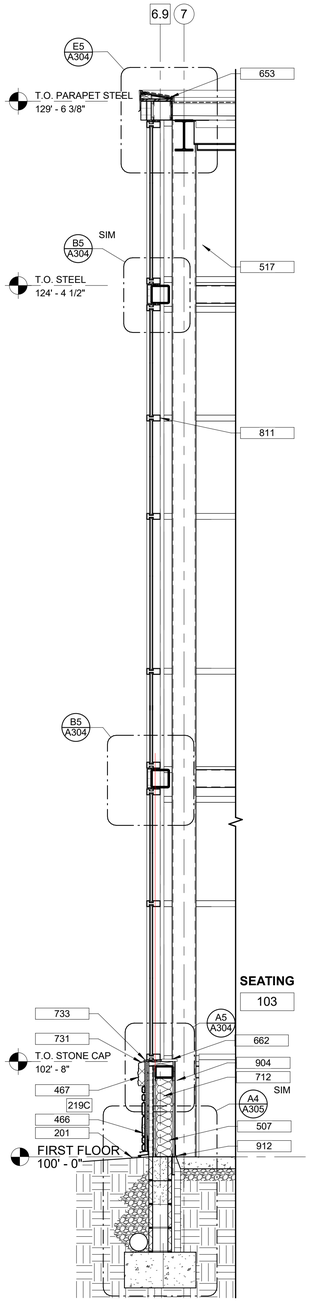
D3 LOBBY CAP DETAIL
1" = 1'-0"



A3 SECTION AT HIGH ROOF TO MID ROOF
1/2" = 1'-0"



B2 CLERESTORY AT CAP
1/2" = 1'-0"



A1 SECTION AT LOBBY FRONT
1/2" = 1'-0"

SECTION KEYED NOTES

201	FINISH GRADE
466	CULTURED STONE VENEER
467	CULTURED STONE WATER TABLE
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
517	STEEL BEAM (SEE "S" SHEETS)
519	STEEL TUBE (SEE "S" SHEETS)
520	STEEL CHANNEL (SEE "S" SHEETS)
522	STEEL PLATE (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)

SECTION KEYED NOTES

535	BREAK MTL. FINISH TO MATCH ALUM. FRAME
608	2X WOOD BLOCKING
609	2X WOOD BLOCKING (PRESSURE TREATED)
637	3/4" PLYWOOD - PRESSURE TREATED
640	SHIM
646	1/2" PLYWOOD
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
662	SOLID SURFACE SILL
702	EXTERIOR RIGID INSULATION
709	5/8" EXTERIOR GLASS-MAT GYPSUM SHEATHING
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED
714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS

SECTION KEYED NOTES

718	SINGLE PLY ROOFING MEMBRANE
729	GUTTER AND DOWNSPOUT (SEE ROOF PLAN)
731	CONTINUOUS BREAK METAL FLASHING
732	SILL PAN FLASHING WITH END DAMS
733	BACKER ROD AND SEALANT
739	SEALANT
755	SINGLE PLY ROOFING FLASHING
757	CANT STRIP
769	PREFINISHED COMPRESSION ROOF EDGE
811	ALUMINUM STOREFRONT SYSTEM
904	5/8" TYPE "X" G.W.B.
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
922	HORIZONTAL METAL CLADDING WITH CONCEALED FASTENERS
1302	METAL ROOF PURLINS

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

WALL SECTIONS

A304
OF SHEETS

216118

5 4 3 2 1

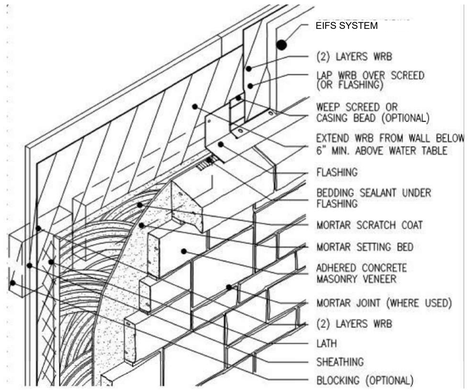
D C B A

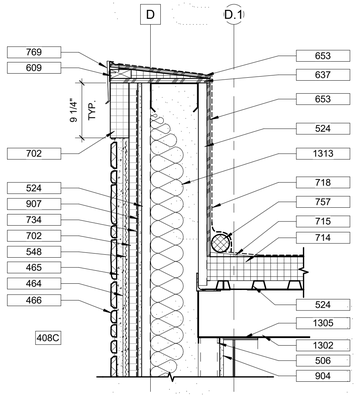
SECTION KEYED NOTES

201	FINISH GRADE
301	POURED CONCRETE FOOTING (SEE "S" SHEETS)
303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
314	1/2" EXPANSION JOINT W/NEOPRENE FILLER
417	12" CMU
428	CONTINUOUS THRU-WALL FLASHING
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
467	CULTURED STONE WATER TABLE
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
519	STEEL TUBE (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)
548	METAL LATH
609	2X WOOD BLOCKING (PRESSURE TREATED)
637	3/4" PLYWOOD - PRESSURE TREATED
640	SHIM
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
701	2" RIGID PERIMETER INSULATION
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
704	E.I.F.S. V-GROOVE (SEE ELEVATIONS)
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED

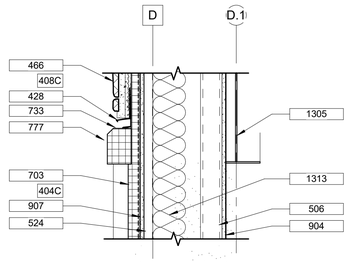
SECTION KEYED NOTES

714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS
715	TAPERED RIGID INSULATION. STAGGER SEAMS BETWEEN LAYERS
718	SINGLE PLY ROOFING MEMBRANE
731	CONTINUOUS BREAK METAL FLASHING
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
757	CANT STRIP
769	PREFINISHED COMPRESSION ROOF EDGE
777	SHOP FABRICATED EIFS TRIM
782	CULTURED STONE FOUNDATION WEEP SCREED
811	ALUMINUM STOREFRONT SYSTEM
813	LIGHTING FIXTURE (SEE ELECTRICAL)
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1301	METAL WALL GIRTS
1302	METAL ROOF PURLINS
1305	METAL BUILDING MAINFRAME/COLUMN
1307	METAL BUILDING CHANNEL
1313	6" PSK INSULATION

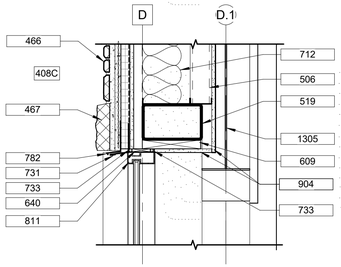




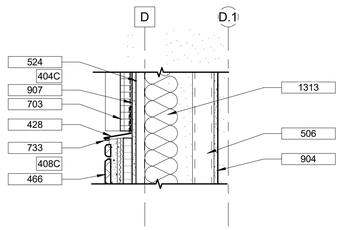
C5 PARAPET STONE VENEER
1" = 1'-0"



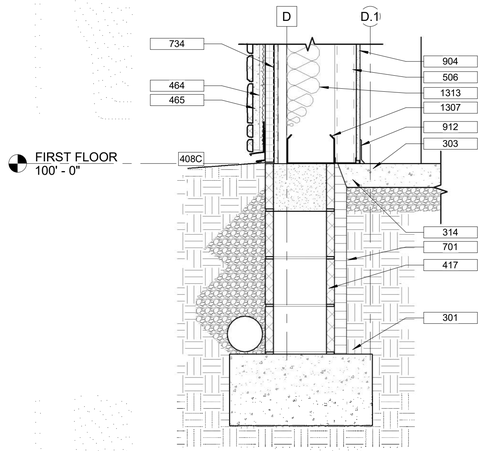
C4 EIFS HEADER
1" = 1'-0"



B5 STOREFRONT HEADER
1" = 1'-0"

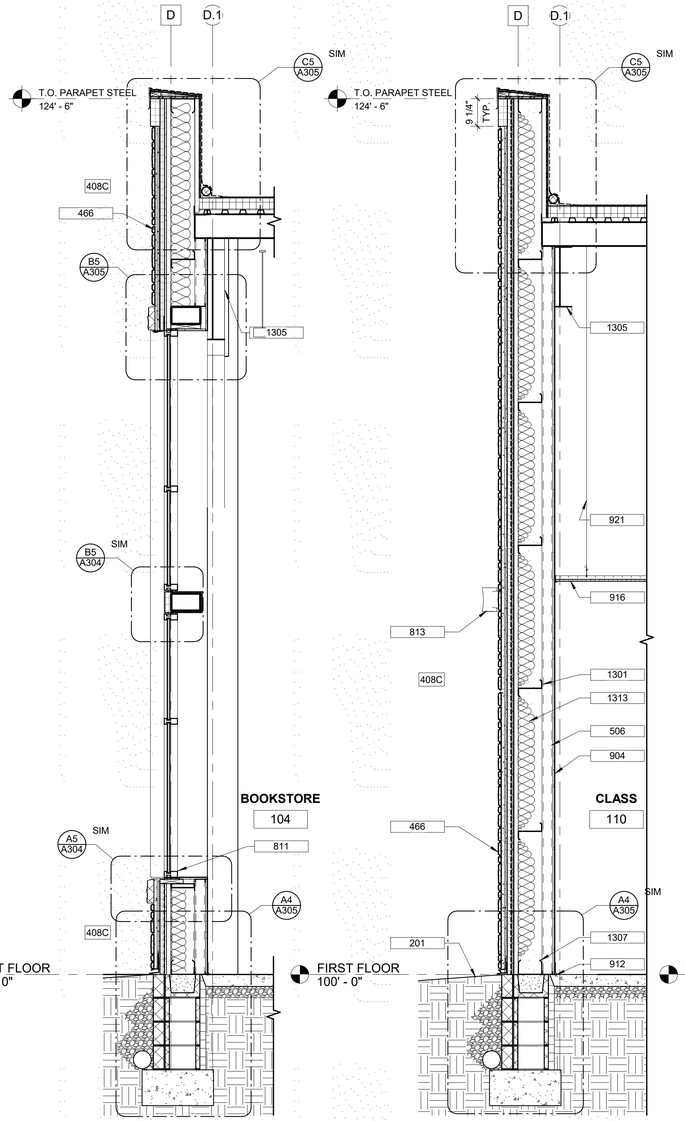


B4 STONE TO EIFS TRANSITION DETAIL
1" = 1'-0"



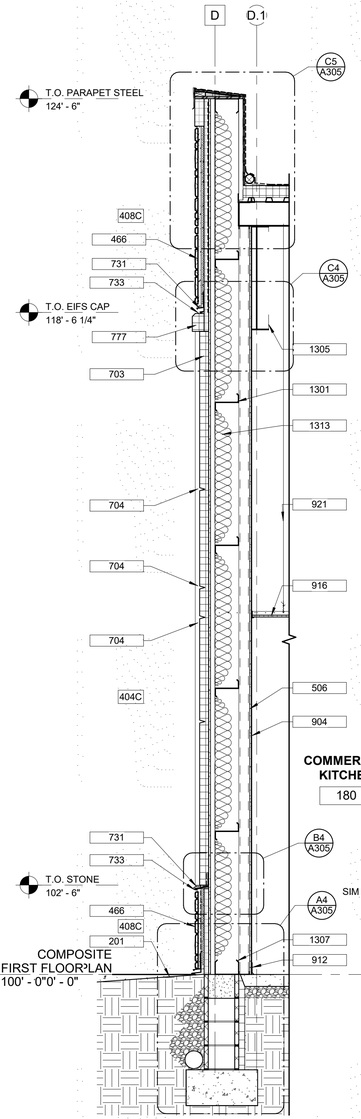
FIRST FLOOR
100' - 0"

A4 FOUNDATION AT STONE VENEER
1" = 1'-0"



A3 BOOKSTORE SECTION THROUGH WINDOW
1/2" = 1'-0"

A2 CLASS SECTION
1/2" = 1'-0"



A1 KITCHEN SECTION
1/2" = 1'-0"

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REVISIONS/ADDENDUMS

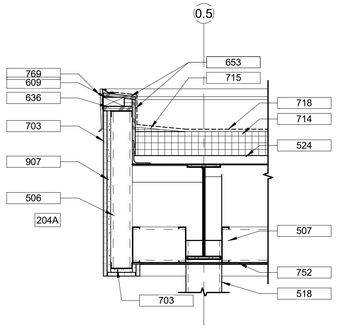
WALL SECTIONS

A305
OF SHEETS

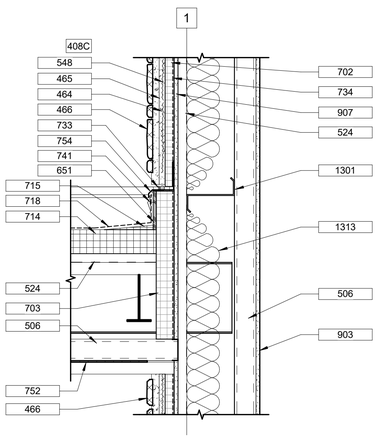
216118

5 4 3 2 1

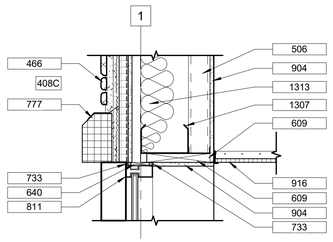
D C B A



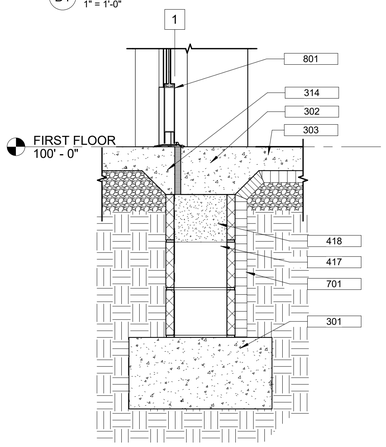
C5 CANOPY STRUCTURE DETAIL
1" = 1'-0"



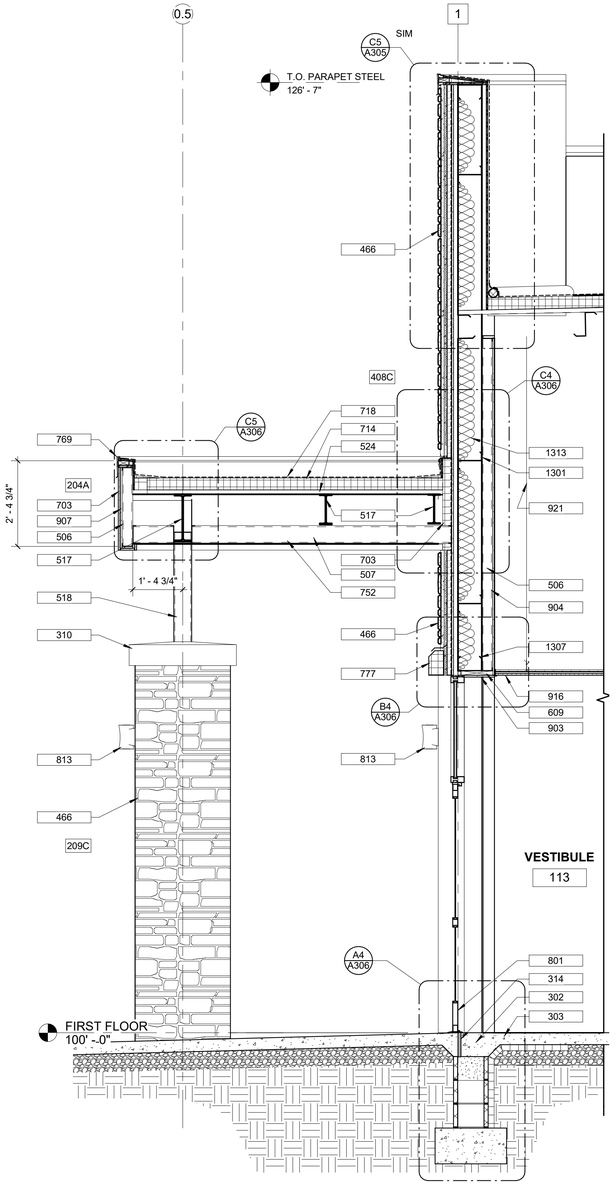
C4 CANOPY ATTACHMENT DETAIL
1" = 1'-0"



B4 EXTERIOR DOOR HEADER AT STONE VENEER
1" = 1'-0"



A4 FOUNDATION AT ENTRY
1" = 1'-0"



A2 SECTION AT SIDE ENTRANCE
1/2" = 1'-0"

SECTION KEYED NOTES

301	POURED CONCRETE FOOTING (SEE "S" SHEETS)
302	THICKENED SLAB (SEE "S" SHEETS)
303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
310	CAST STONE CAP
314	1/2" EXPANSION JOINT W/NEOPRENE FILLER
417	12" CMU
418	12" CMU GROUTED SOLID
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
517	STEEL BEAM (SEE "S" SHEETS)
518	STEEL COLUMN (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)
548	METAL LATH
609	2X WOOD BLOCKING (PRESSURE TREATED)
636	3/4" PLYWOOD (NON-COM)
640	SHIM
651	M.R. PLYWOOD
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
701	2" RIGID PERIMETER INSULATION
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS
715	TAPERED RIGID INSULATION. STAGGER SEAMS BETWEEN LAYERS
718	SINGLE PLY ROOFING MEMBRANE
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
741	TERMINATION BAR
752	FIBER CEMENT SOFFIT PANEL
754	REGLET AND COUNTERFLASHING
769	PREFINISHED COMPRESSION ROOF EDGE
777	SHOP FABRICATED EIFS TRIM
801	DOOR AND FRAME ASSEMBLY
811	ALUMINUM STOREFRONT SYSTEM
813	LIGHTING FIXTURE (SEE ELECTRICAL)
903	5/8" G.W.B.
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1301	METAL WALL GIRTS
1307	METAL BUILDING CHANNEL
1313	6" PSK INSULATION

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REVISIONS/ADDENDUMS

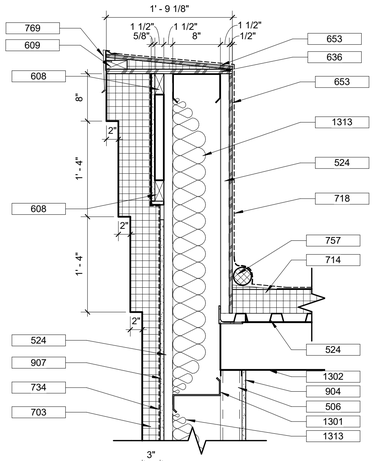
WALL SECTIONS

A306
OF SHEETS

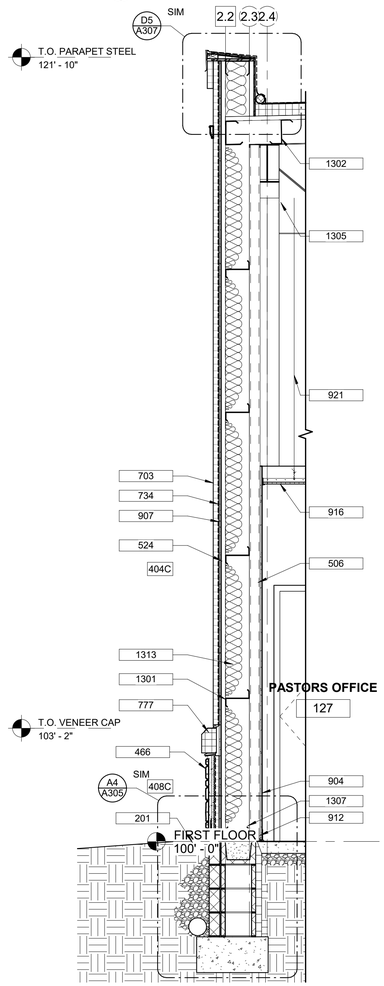
216118

5 4 3 2 1

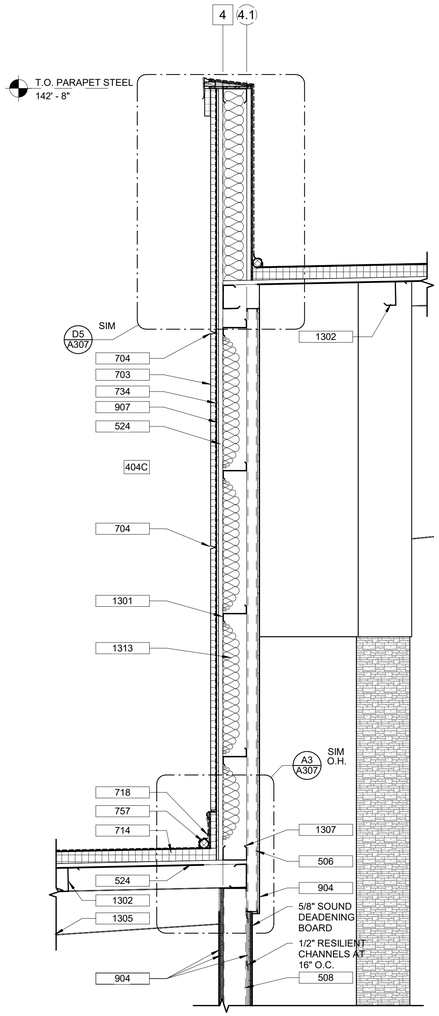
D C B A



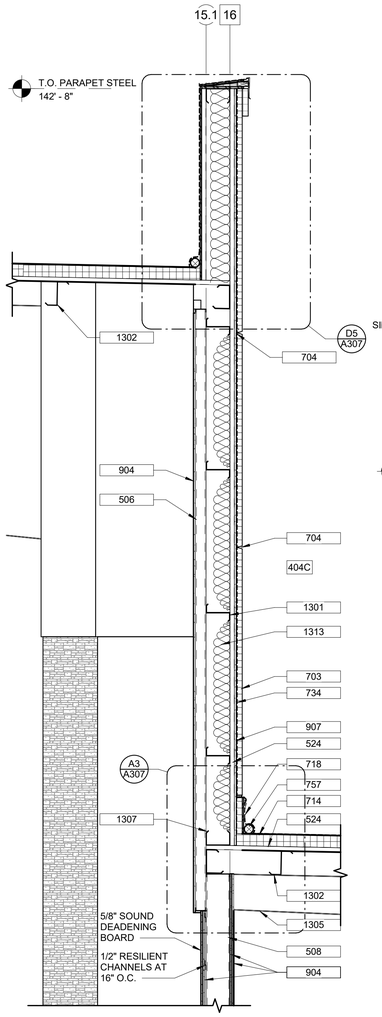
D5 SECTION AT PARAPET TYP.
1" = 1'-0"



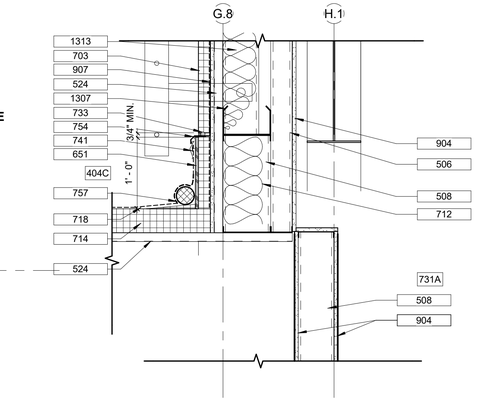
A5 SECTION AT OFFICES
1/2" = 1'-0"



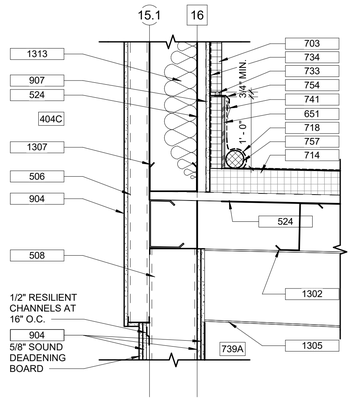
B4 SECTION AT AUDITORIUM PARAPET 1
1/2" = 1'-0"



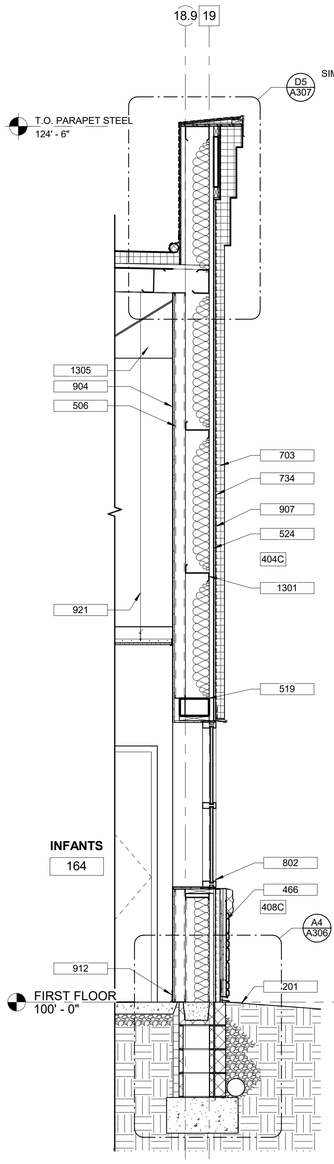
B3 SECTION AT AUDITORIUM PARAPET 2
1/2" = 1'-0"



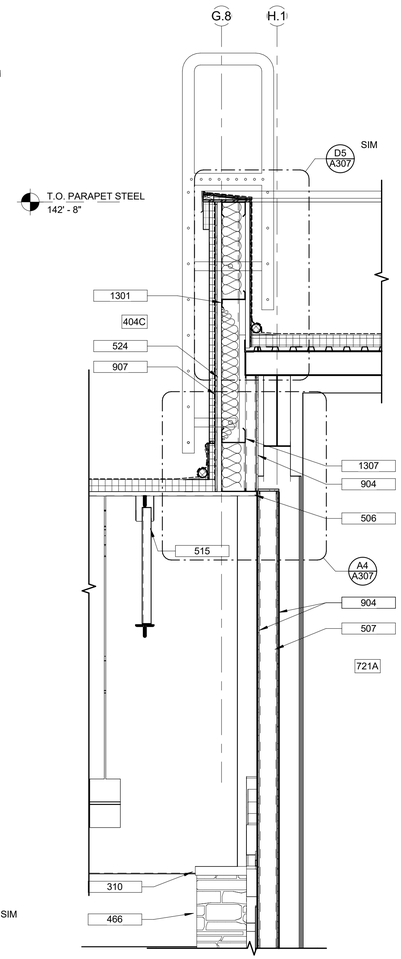
A4 LOW TO HIGH ROOF TRANSITION AT LOBBY
1" = 1'-0"



A3 LOW TO HIGH ROOF TRANSITION
1" = 1'-0"



A2 SECTION AT INFANTS
1/2" = 1'-0"



B1 SECTION AT LOBBY INTERIOR
1/2" = 1'-0"

SECTION KEYED NOTES

201	FINISH GRADE
310	CAST STONE CAP
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
508	8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
515	STEEL BAR JOISTS (SEE "S" SHEETS)
519	STEEL TUBE (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)
608	2X WOOD BLOCKING
609	2X WOOD BLOCKING (PRESSURE TREATED)
636	3/4" PLYWOOD (NON-COM)
651	M.R. PLYWOOD
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
704	E.I.F.S. V-GROOVE (SEE ELEVATIONS)
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED

SECTION KEYED NOTES

714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS
718	SINGLE PLY ROOFING MEMBRANE
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
741	TERMINATION BAR
754	REGLET AND COUNTERFLASHING
757	CANT STRIP
769	PREFINISHED COMPRESSION ROOF EDGE
777	SHOP FABRICATED EIFS TRIM
802	WINDOW ASSEMBLY
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1301	METAL WALL GIRTS
1302	METAL ROOF PURLINS
1305	METAL BUILDING MAINFRAME/COLUMN
1307	METAL BUILDING CHANNEL
1313	6" PSK INSULATION

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
DD MEETING #2	09/10/2019
DD MEETING #3	10/06/2023
BID SET	11/15/2023
[X] AVL COORD / BID SET	01/31/2024
PERMIT SET	

WALL SECTIONS

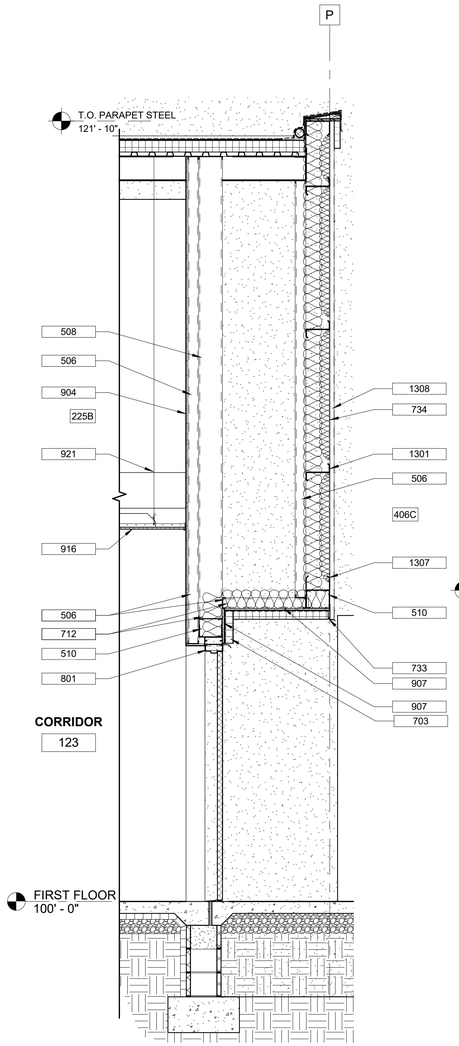
A307
OF SHEETS

216118

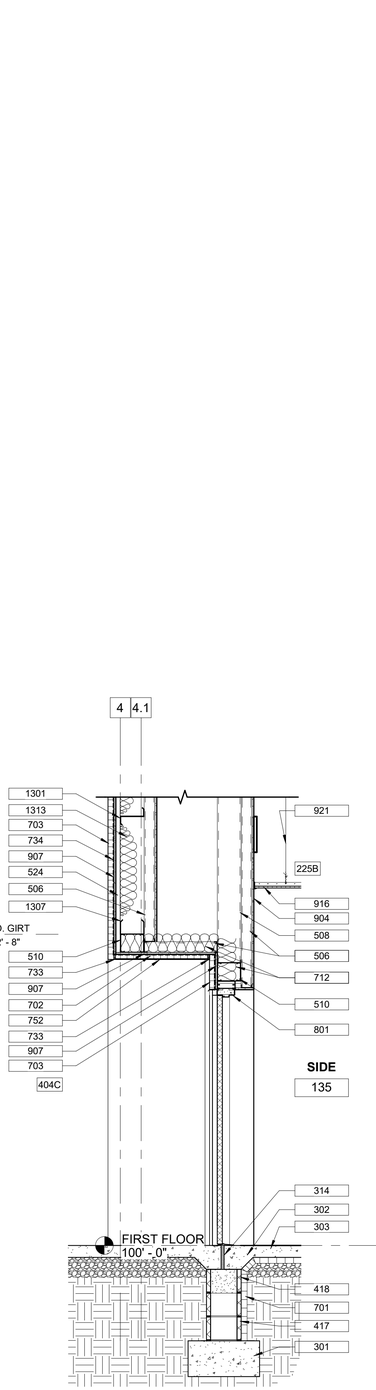
5 4 3 2 1
D C B A

SECTION KEYED NOTES

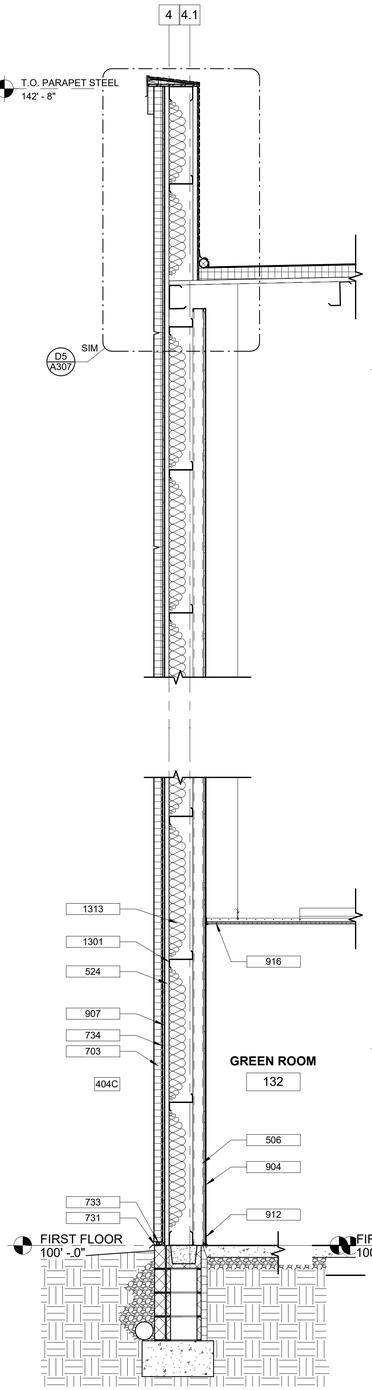
201	FINISH GRADE
301	POURED CONCRETE FOOTING (SEE "S" SHEETS)
302	THICKENED SLAB (SEE "S" SHEETS)
303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
314	1/2" EXPANSION JOINT W/NEOPRENE FILLER
417	12" CMU
418	12" CMU GROUTED SOLID
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
508	8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
510	METAL STUD BOXED LINTEL (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)
613	2X6 WOOD STUDS @ 16" O.C., U.N.O.
636	3/4" PLYWOOD (NON-COM)
701	2" RIGID PERIMETER INSULATION
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
704	E.I.F.S. V-GROOVE (SEE ELEVATIONS)
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED
731	CONTINUOUS BREAK METAL FLASHING
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
752	FIBER CEMENT SOFFIT PANEL
777	SHOP FABRICATED EIFS TRIM
801	DOOR AND FRAME ASSEMBLY
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1301	METAL WALL GIRTS
1302	METAL ROOF PURLINS
1305	METAL BUILDING MAINFRAME/COLUMN
1307	METAL BUILDING CHANNEL
1308	RIBBED METAL SIDING
1313	6" PSK INSULATION



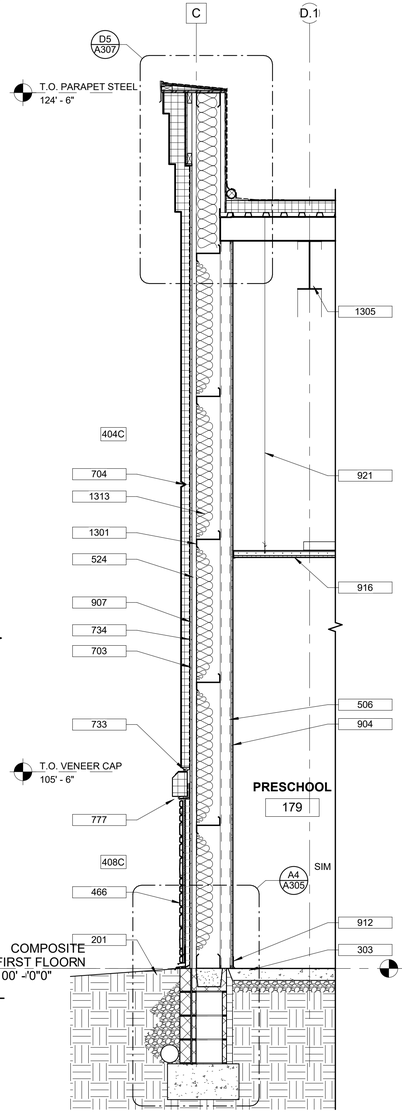
A5 WALL SECTION AT EXTERIOR DOOR
1/2" = 1'-0"



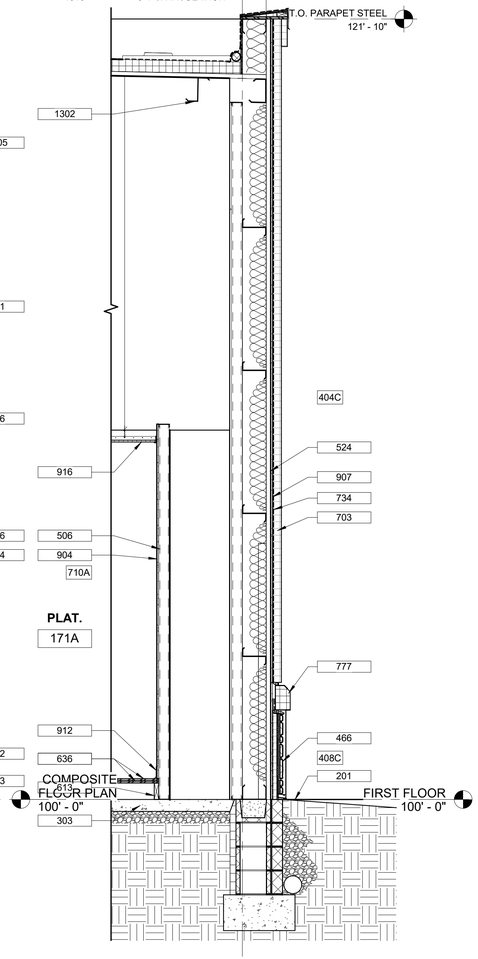
A4 WALL SECTION AT WORSHIP EGRESS
1/2" = 1'-0"



A3 SECTION AT GREEN ROOM
1/2" = 1'-0"



A2 SECTION AT PRESCHOOL
1/2" = 1'-0"



A1 WALL SECTION AT PRESCHOOL THEATER
1/2" = 1'-0"

5 4 3 2 1

D C B A

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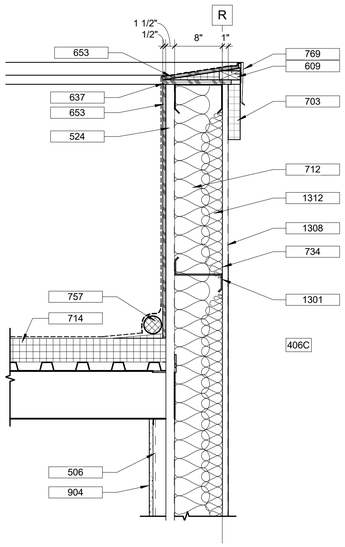
REVISIONS/ADDENDUMS

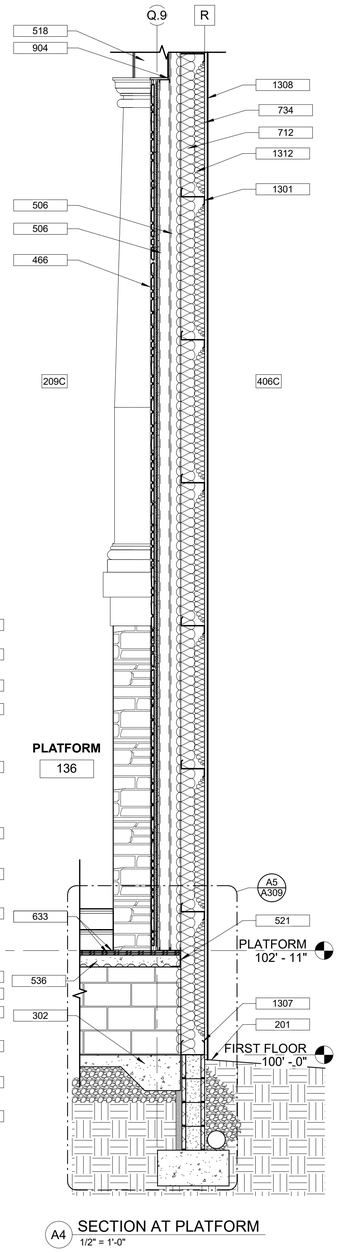
WALL SECTIONS

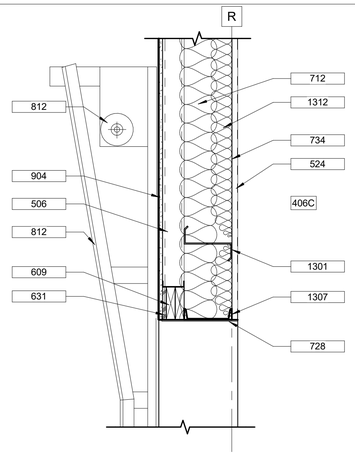
A308
OF SHEETS

216118

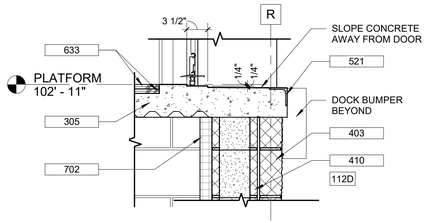


D5 PARAPET AT METAL PANEL
1" = 1'-0"

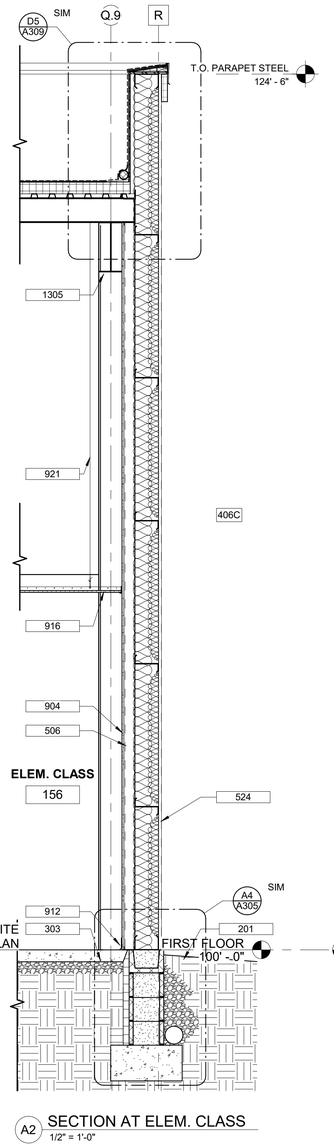


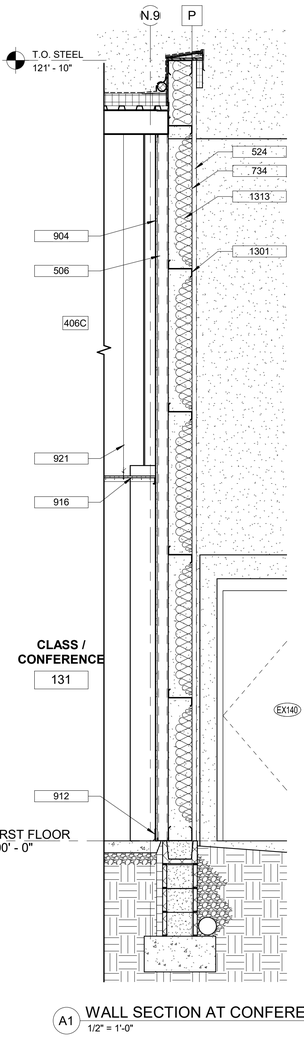


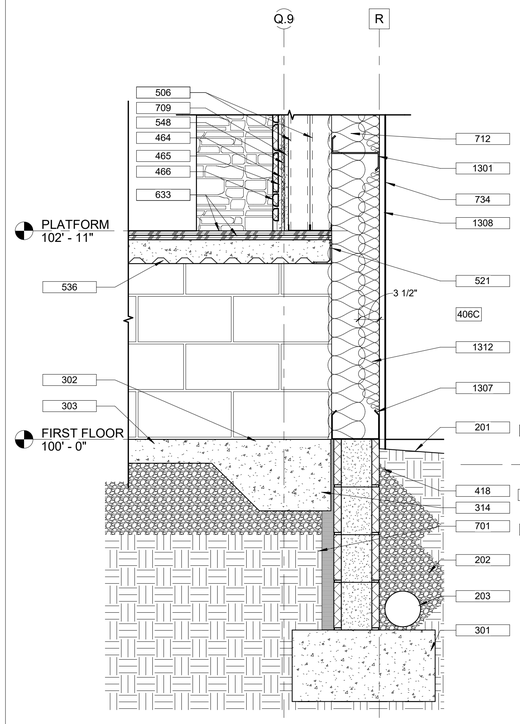
D3 DOCK DOOR HEADER
1" = 1'-0"



C3 DOCK DOOR THRESHOLD DETAIL
1" = 1'-0"

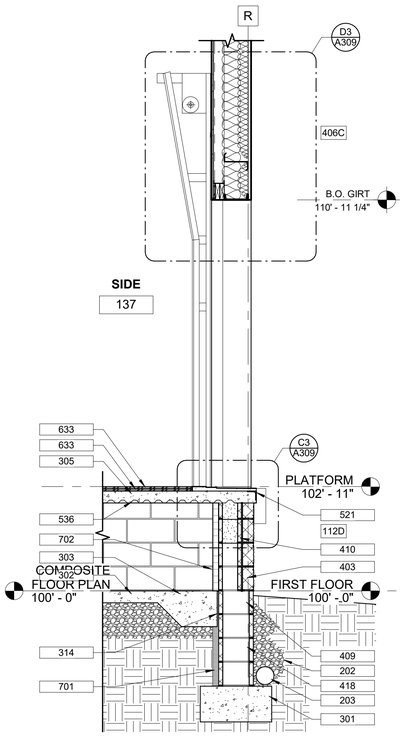






A5 FOUNDATION AT PLATFORM
1" = 1'-0"

A4 SECTION AT PLATFORM
1/2" = 1'-0"



A3 DOCK DOOR SECTION
1/2" = 1'-0"

A2 SECTION AT ELEM. CLASS
1/2" = 1'-0"

A1 WALL SECTION AT CONFERENCE
1/2" = 1'-0"

SECTION KEYED NOTES

201	FINISH GRADE
202	CLEAN GRANULAR BACKFILL
203	PERIMETER DRAIN
301	POURED CONCRETE FOOTING (SEE "S" SHEETS)
302	THICKENED SLAB (SEE "S" SHEETS)
303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
305	CONCRETE FLOOR OVER METAL DECK (SEE "S" SHEETS)
314	1/2" EXPANSION JOINT W/NEOPRENE FILLER
403	4" SPLIT FACE CMU
409	8" CMU
410	8" CMU GROUTED SOLID
418	12" CMU GROUTED SOLID
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
518	STEEL COLUMN (SEE "S" SHEETS)
521	STEEL ANGLE (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)
536	METAL DECK (SEE "S" SHEETS)
548	METAL LATH
609	2X WOOD BLOCKING (PRESSURE TREATED)
631	5/8" PRESSURE TREATED PLYWOOD SHEATHING, SQ. EDGE W/ CLIPS

SECTION KEYED NOTES

633	5/8" PLYWOOD
637	3/4" PLYWOOD - PRESSURE TREATED
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
701	2" RIGID PERIMETER INSULATION
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
709	5/8" EXTERIOR GLASS-MAT GYPSUM SHEATHING
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED
714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS
728	METAL TRIM
734	WEATHER BARRIER
757	CANT STRIP
769	PREFINISHED COMPRESSION ROOF EDGE
812	OVERHEAD DOOR
904	5/8" TYPE "X" G.W.B.
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1301	METAL WALL GIRTS
1305	METAL BUILDING MAINFRAME/COLUMN
1307	METAL BUILDING CHANNEL
1308	RIBBED METAL SIDING
1312	4" PSK INSULATION
1313	6" PSK INSULATION

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REVISIONS/ADDENDUMS

WALL SECTIONS

A309

OF SHEETS

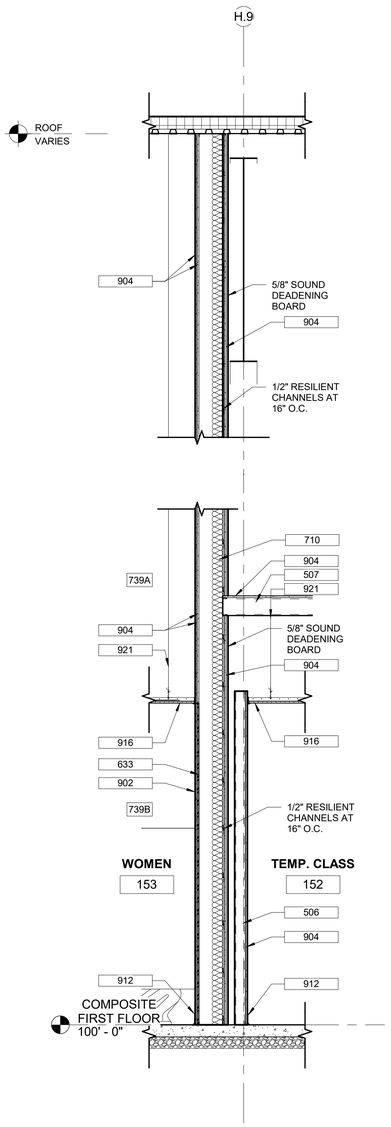
216118

5 4 3 2 1

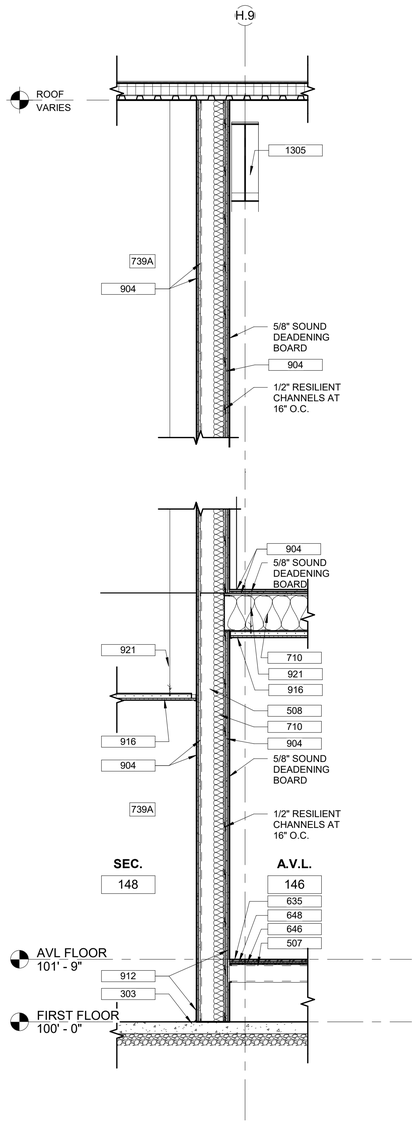
D C B A

SECTION KEYED NOTES

303	4" CONCRETE SLAB OVER 10 MIL POLY V.B. OVER 4" GRAVEL
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
508	8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
633	5/8" PLYWOOD
635	3/4" PLYWOOD
646	1/2" PLYWOOD
648	1/2" SOUNDSTOP BOARD
710	SOUND BATT INSULATION
902	FIBERGLASS REINFORCED CEMENT BOARD
904	5/8" TYPE "X" G.W.B.
912	BASE AND FLOOR FINISH (SEE FINISH SCHEDULE)
916	SUSPENDED ACOUSTIC CEILING TILE AND GRID
921	HANGER WIRE - ANCHOR TO STRUCTURE ABOVE
1305	METAL BUILDING MAINFRAME/COLUMN

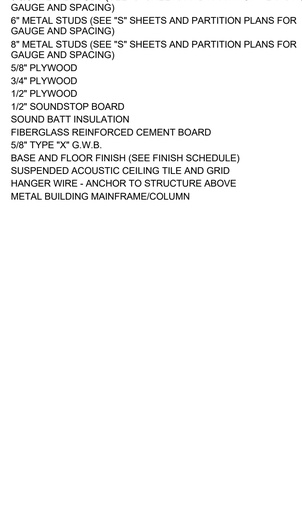


A4 SECTION AT RESTROOM / AUDITORIUM
1/2" = 1'-0"



A3 SECTION AT SECURITY / AVL
1/2" = 1'-0"

A2 SECTION AT AVL
1/2" = 1'-0"



A1 SECTION AT TEMP CLASSROOM
1/2" = 1'-0"

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WALL SECTIONS

A310
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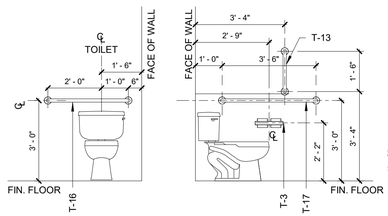
216118

5 4 3 2 1

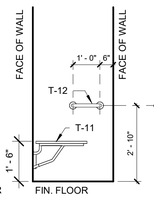
D C B A

MOUNTING HEIGHT LEGEND

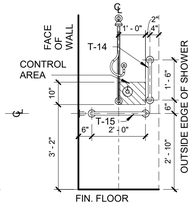
NOTE: TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE
NOTE: PROVIDE SOLID WOOD BLOCKING IN PARTITION FOR ANCHORAGE OF ACCESSORIES & EQUIPMENT.



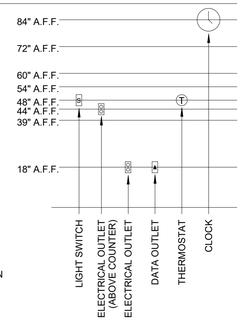
TYPICAL ACCESSIBLE TOILET STALL / WATER CLOSET

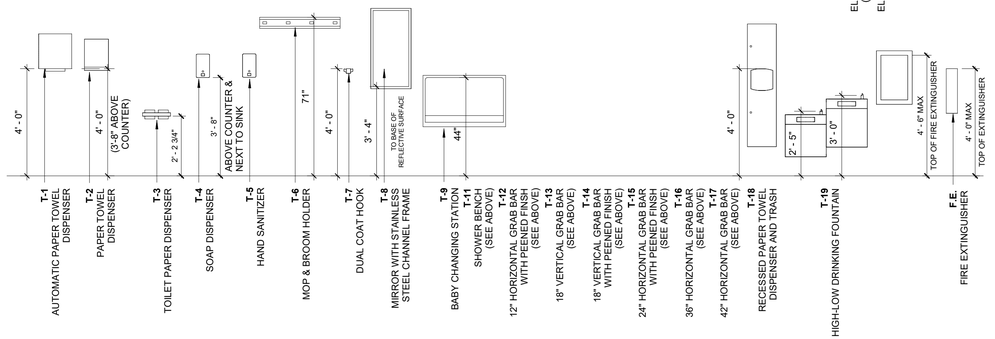


TYPICAL SHOWER
REAR ELEVATION



TYPICAL SHOWER
CONTROL WALL ELEVATION





OWNER PROVIDED EQUIPMENT

A - UNDER COUNTER ICE MACHINE

B - BLENDER

C - COFFEE MAKER

D - COFFEE GRINDER

E - EXPRESSO MACHINE

F - UNDERCOUNTER REFRIGERATOR

G - POINT OF SALE REGISTER

H - DUAL TEMPERATURE DISPLAY CASE

CONTRACTOR PROVIDED EQUIPMENT

J - BLENDER STATION / SINK

CODED NOTES - INTERIOR ELEVATIONS

1 BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH PLASTIC LAMINATE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501

2 PLASTIC LAMINATE VANITY COUNTERTOP WITH 4" BACKSPLASH, MTD. @ 2'-10" A.F.F. SEE DETAIL A3 / A502

3 EXPOSED METAL COUNTERTOP SUPPORT SEE DETAIL XX / AXXX

4 BASE AS SCHEDULED

5 FILLER OR FACE PANEL

6 SOLID SURFACE COUNTERTOP, PROVIDE WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST A WALL SEE DETAIL A3 & A5 / A501. IF EXPOSED ON ONE SIDE, RETURN SINK APRON TO WALL.

7 BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH SOLID SURFACE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST WALL. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501

8 PLAM MILLWORK WALL AND BASE CABINETS

9 BAKED ENAMEL TOILET PARTITION SEE SPECIFICATION

10 42"H X 18"W METAL URINAL SCREEN; TOP MOUNTED @ 5'-0"

11 PLAM BRACE, SEE DETAIL

12 WALL MOUNTED POT FILLER

13 BIBLE SHELF, SEE DETAIL C1 / A501

14 WALL MOUNT TV LOCATION, PROVIDE BLOCKING

15 UNDER COUNTER REFRIGERATOR

16 WALL MOUNTED SINK. PROVIDE 2X BLOCKING IN WALL FOR MOUNTING.

17 FINISH EXPOSED FACE OF MILLWORK

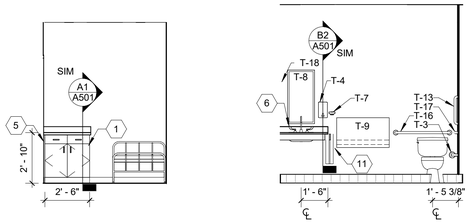
18 BASE CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH STAINLESS STEEL SQUARED EDGE COUNTERTOP

19 APPLY 4'-0" FRP PANELS DIRECTLY ON TOP OF MOP SINK. APPLY SEALANT TO TOP AND SIDE EDGES OF FRP PANELS. EXTEND 3'-0" FROM CORNER.

20 STAINLESS STEEL WALL PANEL AS REQUIRED TO MEET CODE, SEE SPECIFICATIONS

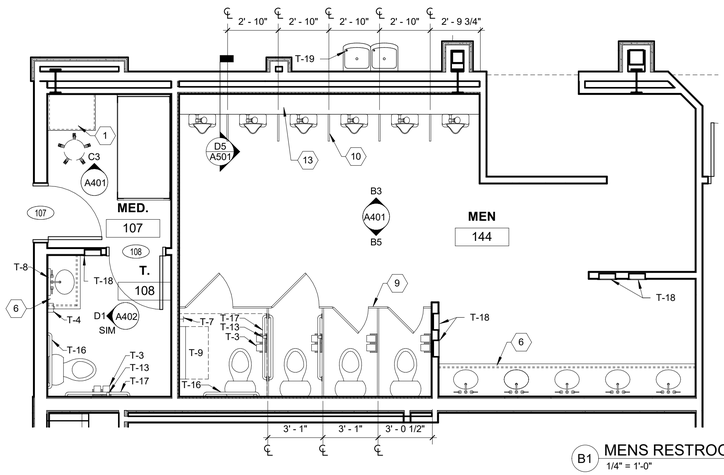
GENERAL NOTES

1. BASE CABINET DEPTH - 24" U.N.O. WALL CABINET DEPTH - 13" U.N.O.
2. ALL CASEWORK TO INCLUDE A PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH UNLESS NOTED OTHERWISE.
3. WALL CABINET ADJUSTABLE SHELVING:
   12"-17" HIGH - 0 SHELVES
   18"-29" HIGH - 1 SHELF
4. 30"-41" HIGH - 2 SHELVES
5. 42"-53" HIGH - 3 SHELVES
6. BASE CABINET ADJUSTABLE SHELVING:
   SINK BASE - 0 SHELVES
   FULL BASE - 1 SHELF
   UTILITY BASE - 1 SHELF
7. ADJUSTABLE WALL MOUNTED SHELVING
   24",36",48" WIDE - 2 STANDARDS
   60",72",84" WIDE - 3 STANDARD
   96" WIDE - 4 STANDARDS
8. PROVIDE WIRE ACCESS GROMMETS AT LOCATIONS SHOWN ON ELEV. 3" CLEAR FROM BACK WALL. VERIFY LOCATION IN FIELD WITH OWNER.
9. PROVIDE WOOD BLOCKING AT TOP AND BOTTOM OF ALL WALL CABINETS, AT TOP AND CENTER OF ALL BASE CABINETS, AND AT TOP, BOTTOM AND CENTER OF TALL CABINETS.
10. APPLY SEALANT AT JUNCTION OF CASEWORK AND WALL SURFACES.
11. COORDINATE WITH ELECTRICAL AND PLUMBING CONTRACTORS TO LOCATE THEIR WORK AS ILLUSTRATED IN THESE ELEVATIONS.
12. EXPOSED-TO-VIEW CABINET SURFACES SHALL RECEIVE SAME FINISH AS FACE OF CABINET.
13. COMPUTERS AND TELEPHONES BY OWNER.
14. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES. (IN PROJECT MANUAL)
15. INTERIOR GLASS TO BE 1/4" TEMPERED UNLESS NOTED OTHERWISE.
16. COORDINATE ALL GROMMET HOLES IN COUNTERTOPS WITH ELECTRICAL OUTLETS WHERE APPLICABLE.
17. REFER TO AP SHEETS FOR WALL TYPES

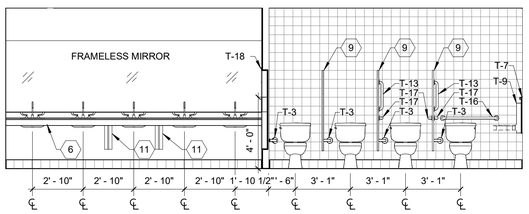


C3 MED. CASEWORK
1/4" = 1'-0"

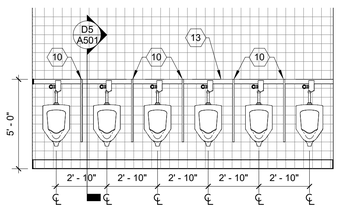
C2 FAMILY RESTROOM ELEVATION
1/4" = 1'-0"



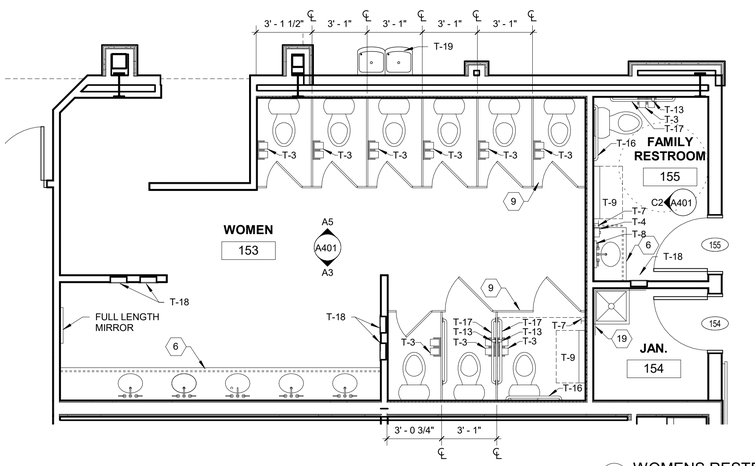
B1 MENS RESTROOM PLAN
1/4" = 1'-0"



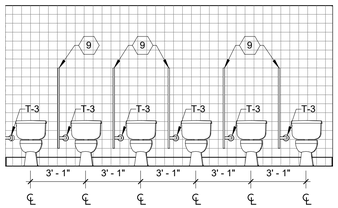
B5 MENS SINK AND TOILET ELEVATION
1/4" = 1'-0"



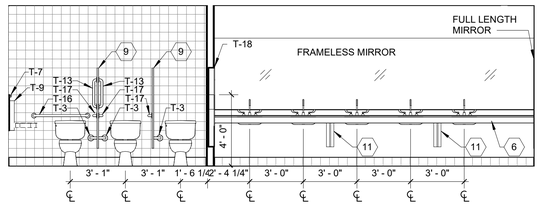
B3 MENS URINAL ELEVATION
1/4" = 1'-0"



A1 WOMENS RESTROOM PLAN
1/4" = 1'-0"



A5 WOMENS TOILET ELEVATION
1/4" = 1'-0"



A3 WOMENS SINK AND TOILET ELEVATION
1/4" = 1'-0"

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REVISIONS/ADDENDUMS

ENLARGED PLANS AND ELEVATIONS

A401

OF SHEETS

216118

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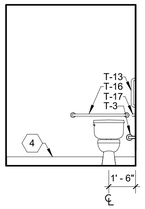
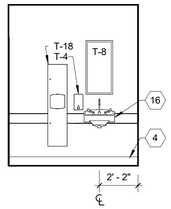
D C B A

CODED NOTES - INTERIOR ELEVATIONS

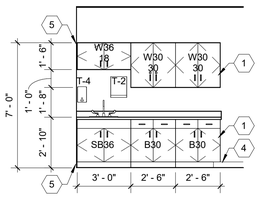
1. BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH PLASTIC LAMINATE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501
2. PLASTIC LAMINATE VANITY COUNTERTOP WITH 4" BACKSPLASH, MTD. @ 2'-10" A.F.F. SEE DETAIL A3 / A502
3. EXPOSED METAL COUNTERTOP SUPPORT SEE DETAIL XX / AXXX
4. BASE AS SCHEDULED
5. FILLER OR FACE PANEL
6. SOLID SURFACE COUNTERTOP, PROVIDE WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST A WALL SEE DETAIL A3 & A5 / A501. IF EXPOSED ON ONE SIDE, RETURN SINK APRON TO WALL.
7. BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH SOLID SURFACE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST WALL. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501
8. PLAM MILLWORK WALL AND BASE CABINETS
9. BAKED ENAMEL TOILET PARTITION SEE SPECIFICATION
10. 42"H X 18"W METAL URINAL SCREEN; TOP MOUNTED @ 5'-0"
11. PLAM BRACE, SEE DETAIL
12. WALL MOUNTED POT FILLER
13. BIBLE SHELF, SEE DETAIL C1 / A501
14. WALL MOUNT TV LOCATION, PROVIDE BLOCKING
15. UNDER COUNTER REFRIGERATOR
16. WALL MOUNTED SINK. PROVIDE 2X BLOCKING IN WALL FOR MOUNTING.
17. FINISH EXPOSED FACE OF MILLWORK
18. BASE CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH STAINLESS STEEL SQUARED EDGE COUNTERTOP
19. APPLY 4'-0" FRP PANELS DIRECTLY ON TOP OF MOP SINK. APPLY SEALANT TO TOP AND SIDE EDGES OF FRP PANELS. EXTEND 3'-0" FROM CORNER.
20. STAINLESS STEEL WALL PANEL AS REQUIRED TO MEET CODE, SEE SPECIFICATIONS



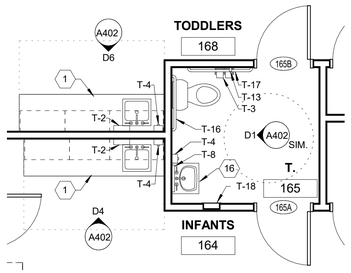
E3 GREEN ROOM TOILET ELEVATION
1/4" = 1'-0"



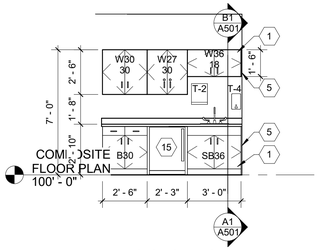
E2 GREEN ROOM SINK ELEVATION
1/4" = 1'-0"



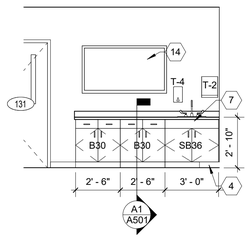
D6 TODDLER CASEWORK
1/4" = 1'-0"



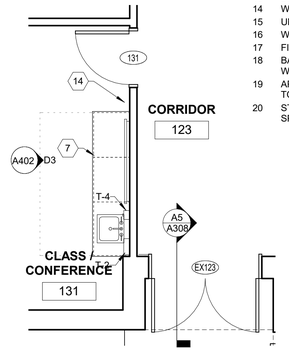
D5 INFANT AND TODDLER RESTROOM PLAN
1/4" = 1'-0"



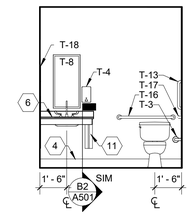
D4 INFANTS CASEWORK
1/4" = 1'-0"



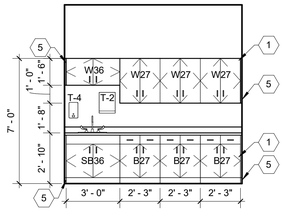
D3 CLASS / CONFERENCE CASEWORK
1/4" = 1'-0"



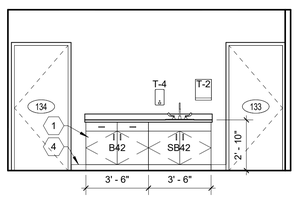
D2 CLASS / CONFERENCE PLAN
1/4" = 1'-0"



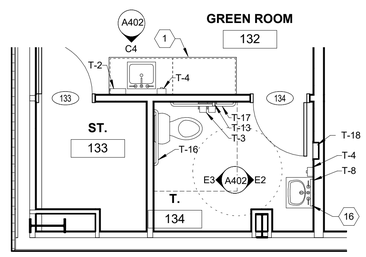
D1 RESTROOM ELEVATION
1/4" = 1'-0"



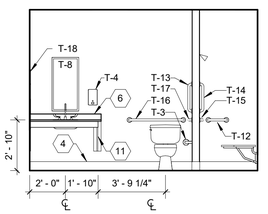
C5 PRESCHOOL CASEWORK
1/4" = 1'-0"



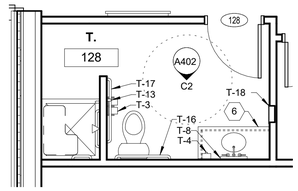
C4 GREENROOM CASEWORK
1/4" = 1'-0"



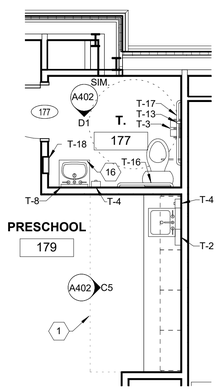
C3 GREEN ROOM RESTROOM PLAN
1/4" = 1'-0"



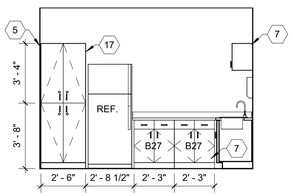
C2 PASTORS RESTROOM ELEVATION
1/4" = 1'-0"



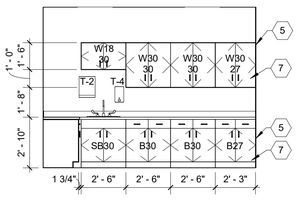
C1 PASTORS RESTROOM PLAN
1/4" = 1'-0"



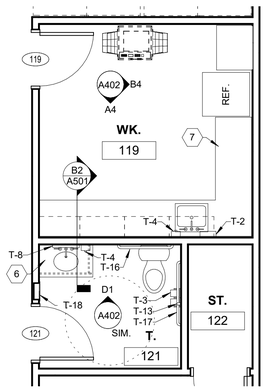
A5 PRESCHOOL RESTROOM PLAN
1/4" = 1'-0"



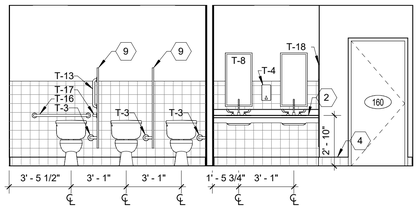
B4 WKRM CASEWORK
1/4" = 1'-0"



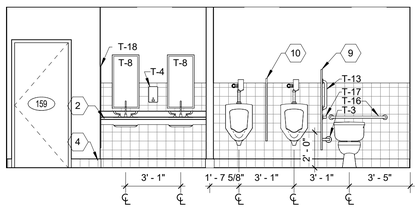
A4 WK. CASEWORK
1/4" = 1'-0"



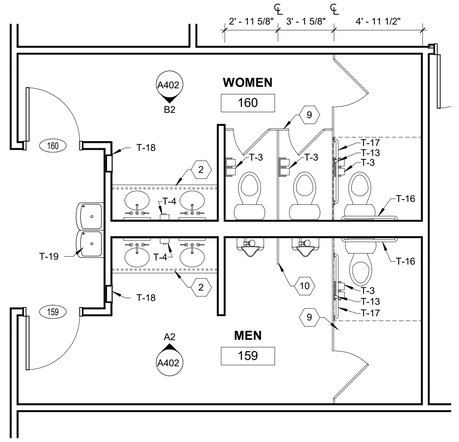
A3 OFFICES RESTROOM PLAN
1/4" = 1'-0"



B2 WOMENS ELEVATION
1/4" = 1'-0"



A2 MENS ELEVATION
1/4" = 1'-0"



A1 RESTROOMS PLAN
1/4" = 1'-0"

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REVISIONS/ADDENDUMS

ENLARGED PLANS AND ELEVATIONS

A402
OF SHEETS

216118

5 4 3 2 1

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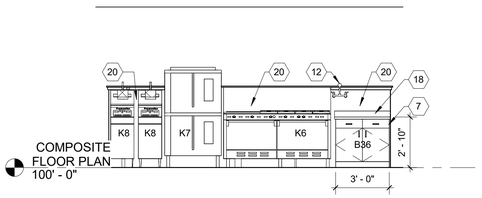
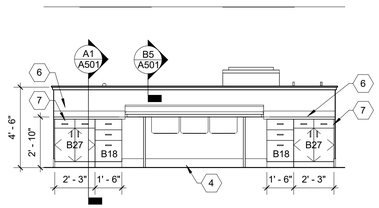
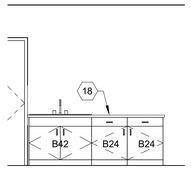


COMPOSITE FLOOR PLAN
100' - 0"

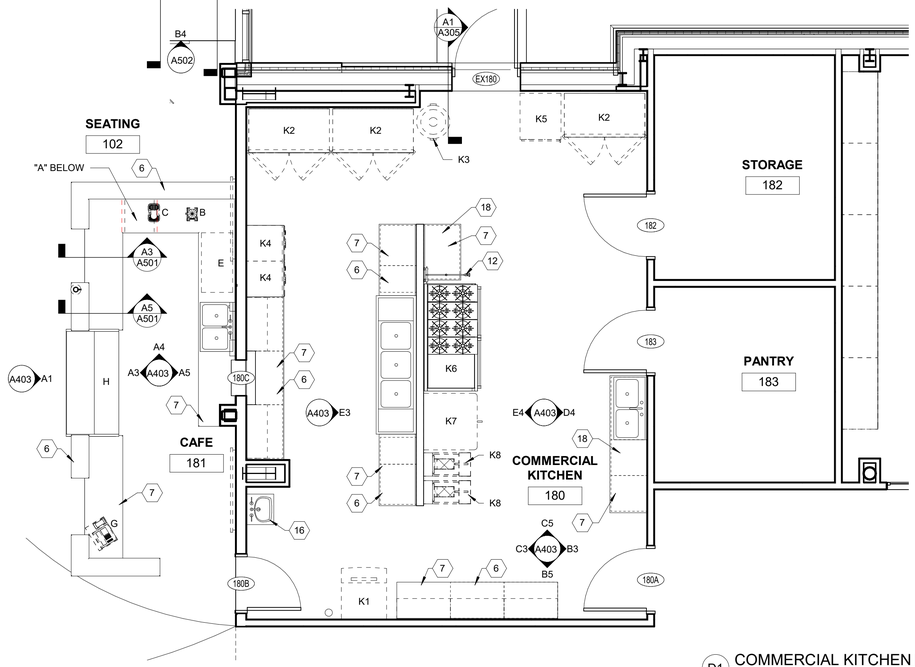
E4 KITCHEN ISLAND 1 NORTH ELEVATION
1/4" = 1'-0"



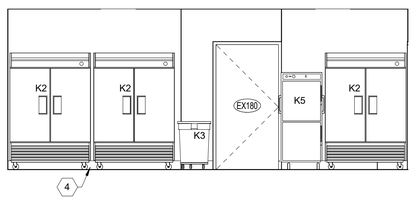
E3 KITCHEN ISLAND 1 SOUTH ELEVATION
1/4" = 1'-0"



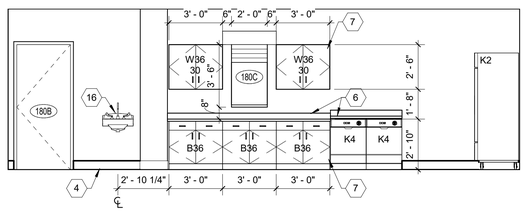
D4 KITCHEN ISLAND 2 SOUTH ELEVATION
1/4" = 1'-0"



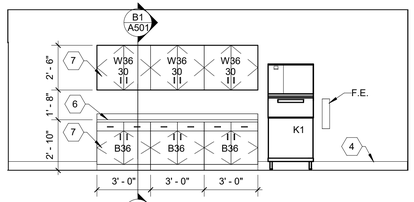
D1 COMMERCIAL KITCHEN PLAN
1/4" = 1'-0"



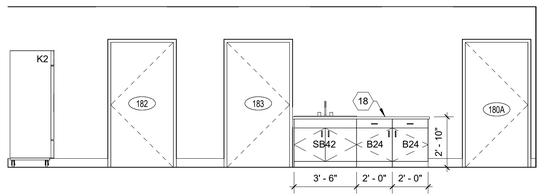
C5 KITCHEN - WEST WALL
1/4" = 1'-0"



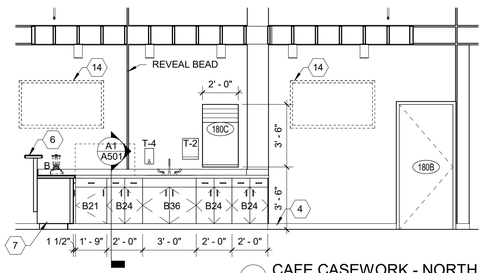
C3 KITCHEN - SOUTH WALL
1/4" = 1'-0"



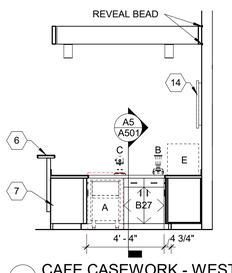
B5 KITCHEN - EAST WALL
1/4" = 1'-0"



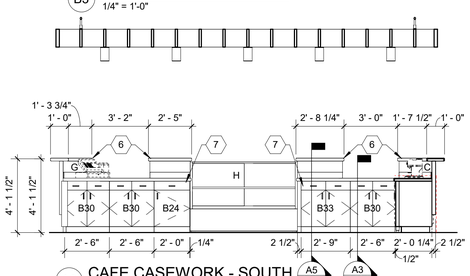
B3 KITCHEN - NORTH WALL
1/4" = 1'-0"



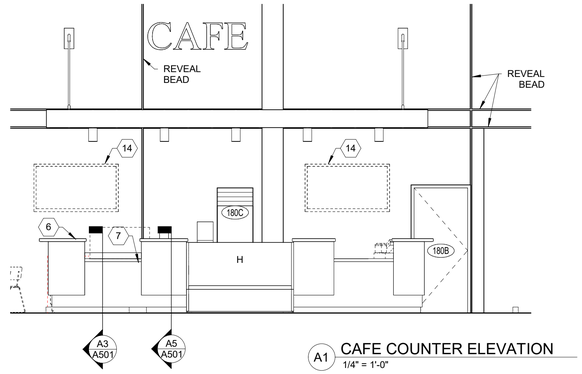
A5 CAFE CASEWORK - NORTH
1/4" = 1'-0"



A4 CAFE CASEWORK - WEST
1/4" = 1'-0"



A3 CAFE CASEWORK - SOUTH
1/4" = 1'-0"



A1 CAFE COUNTER ELEVATION
1/4" = 1'-0"

OWNER PROVIDED EQUIPMENT

A - UNDER COUNTER ICE MACHINE

B - BLENDER

C - COFFEE MAKER

D - COFFEE GRINDER

E - EXPRESSO MACHINE

F - UNDERCOUNTER REFRIGERATOR

G - POINT OF SALE REGISTER

H - DUAL TEMPERATURE DISPLAY CASE

KITCHEN EQUIPMENT BY OWNER

K1 ICE MACHINE FLOOR MODEL
K2 COMMERCIAL REFRIGERATOR/FREEZER SIDE BY SIDE
K3 TRASH CAN ON WHEELS
K4 DISHWASHER, UNDERCOUNTER
K5 MOBILE WARMING CABINET
K6 COMMERCIAL RANGE WITH GRIDDLE AND 2 OVENS
K7 COMMERCIAL DUAL CONVECTION OVEN
K8 DEEP FRYER

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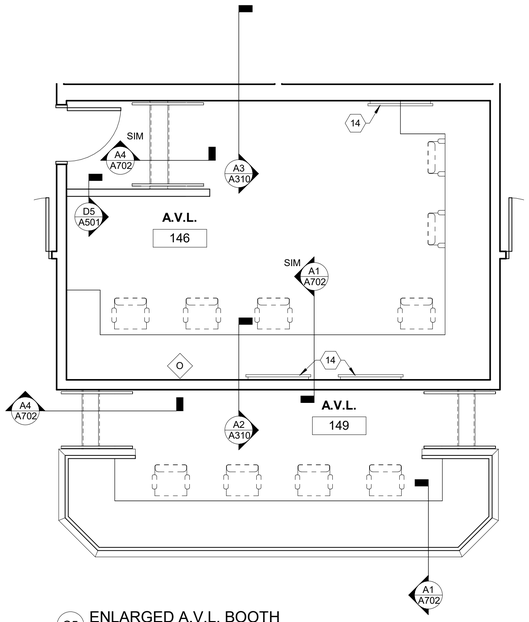
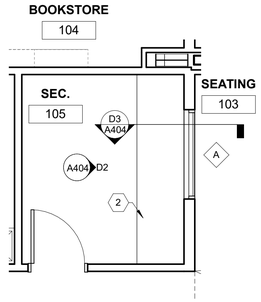
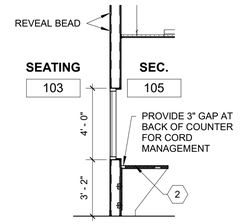
D C B A



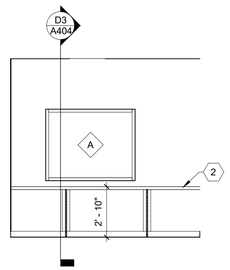
C5 ENLARGED A.V.L. BOOTH
1/4" = 1'-0"



D4 ENLARGED SECURITY PLAN
1/4" = 1'-0"



D3 SECTION AT SECURITY DESK
1/4" = 1'-0"



D2 SECURITY DESK
1/4" = 1'-0"

CODED NOTES - INTERIOR ELEVATIONS

1 BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH PLASTIC LAMINATE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501

2 PLASTIC LAMINATE VANITY COUNTERTOP WITH 4" BACKSPLASH, MTD. @ 2'-10" A.F.F. SEE DETAIL A3 / A502

3 EXPOSED METAL COUNTERTOP SUPPORT SEE DETAIL XX / AXXX

4 BASE AS SCHEDULED

5 FILLER OR FACE PANEL

6 SOLID SURFACE COUNTERTOP, PROVIDE WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST A WALL SEE DETAIL A3 & A5 / A501. IF EXPOSED ON ONE SIDE, RETURN SINK APRON TO WALL.

7 BASE AND/OR WALL CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH SOLID SURFACE SQUARED EDGE COUNTERTOP WITH 4" BACKSPLASH WHERE COUNTER IS AGAINST WALL. PROVIDE 2X WOOD BLOCKING AS REQUIRED SEE DETAIL A5 & B5 / A501

8 PLAM MILLWORK WALL AND BASE CABINETS

9 BAKED ENAMEL TOILET PARTITION SEE SPECIFICATION

10 42"H X 18"W METAL URINAL SCREEN; TOP MOUNTED @ 5'-0"

11 PLAM BRACE, SEE DETAIL

12 WALL MOUNTED POT FILLER

13 BIBLE SHELF, SEE DETAIL C1 / A501

14 WALL MOUNT TV LOCATION, PROVIDE BLOCKING

15 UNDER COUNTER REFRIGERATOR

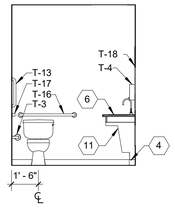
16 WALL MOUNTED SINK. PROVIDE 2X BLOCKING IN WALL FOR MOUNTING.

17 FINISH EXPOSED FACE OF MILLWORK

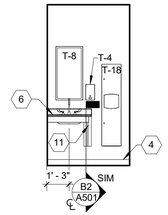
18 BASE CABINETS (SEE SPECIFICATIONS, DIV. 12 FOR MODEL) COVERED WITH STAINLESS STEEL SQUARED EDGE COUNTERTOP

19 APPLY 4'-0" FRP PANELS DIRECTLY ON TOP OF MOP SINK. APPLY SEALANT TO TOP AND SIDE EDGES OF FRP PANELS. EXTEND 3'-0" FROM CORNER.

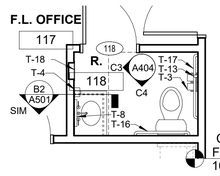
20 STAINLESS STEEL WALL PANEL AS REQUIRED TO MEET CODE, SEE SPECIFICATIONS



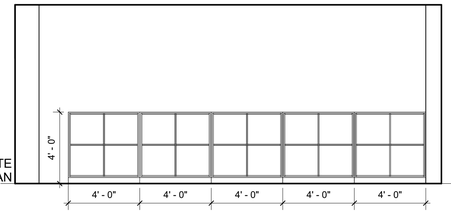
C4 FL TOILET ELEVATION
1/4" = 1'-0"



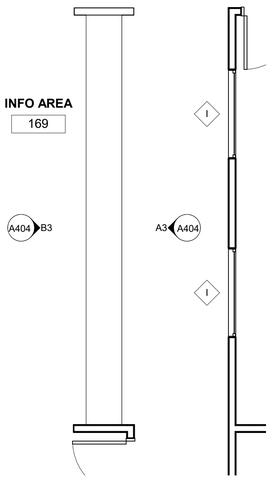
C3 FL SINK ELEVATION
1/4" = 1'-0"



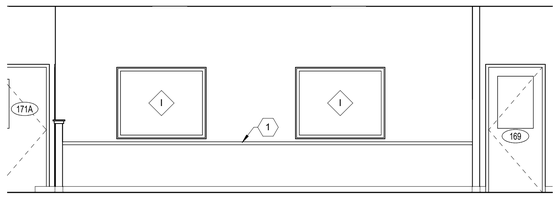
C2 FL RESTROOM PLAN
1/4" = 1'-0"



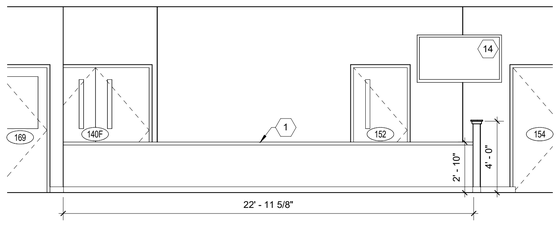
C1 PRESCHOOL CUBBIES
1/4" = 1'-0"



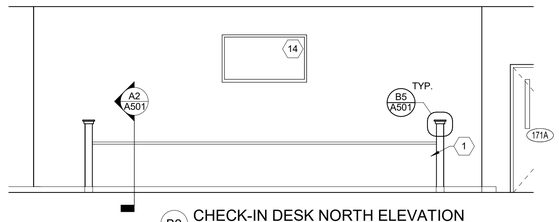
A5 INFO AREA PLAN
1/4" = 1'-0"



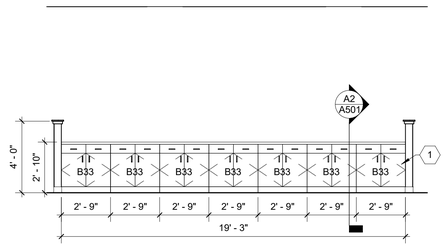
B3 INFO AREA NORTH ELEVATION
1/4" = 1'-0"



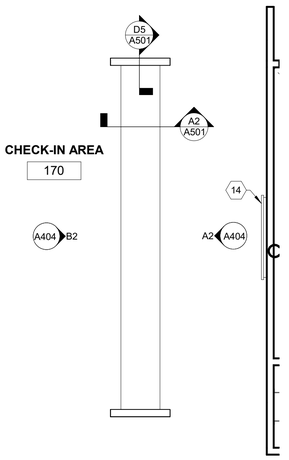
A3 INFO AREA SOUTH ELEVATION
1/4" = 1'-0"



B2 CHECK-IN DESK NORTH ELEVATION
1/4" = 1'-0"



A2 CHECK-IN DESK SOUTH ELEVATION
1/4" = 1'-0"



A1 CHECK-IN DESK PLAN
1/4" = 1'-0"

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

ENLARGED PLANS AND ELEVATIONS

A404

OF SHEETS

216118

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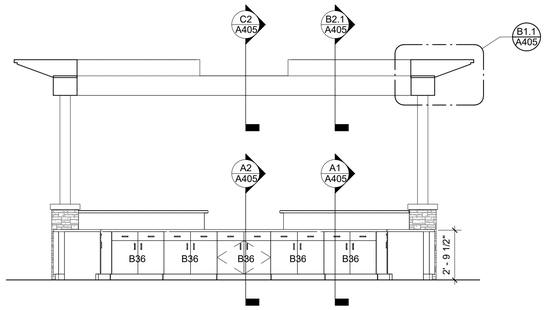
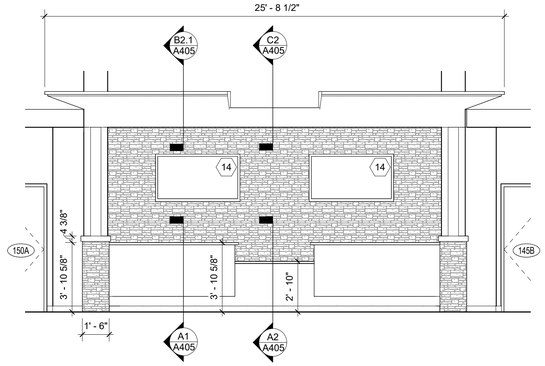
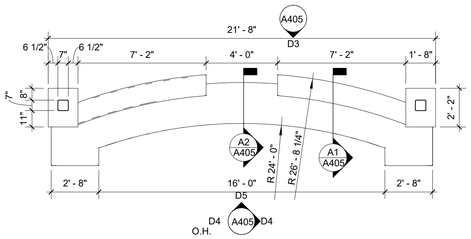
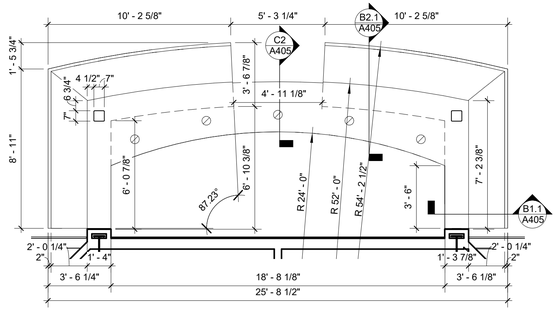
D C B A





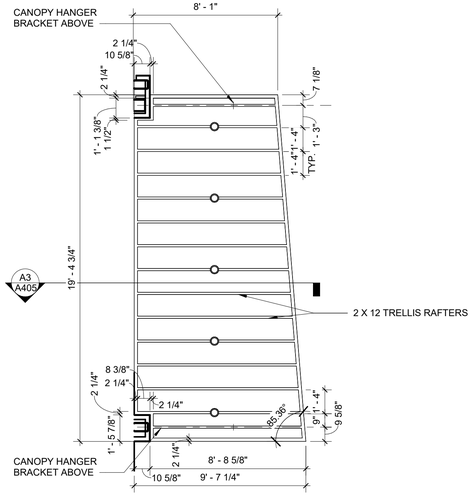


D1 INFO / WELCOME CENTER PLAN
1/4" = 1'-0"

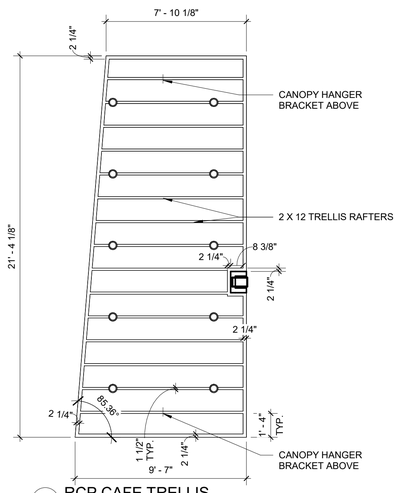


C1 REFLECTED CEILING PLAN INFO / WELCOME CENTER
1/4" = 1'-0"

D5 INFO / WELCOME CENTER BACK
1/4" = 1'-0"



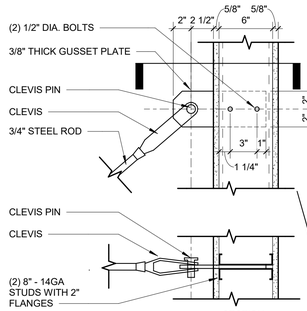
B5 RCP BOOKSTORE TRELLIS
1/4" = 1'-0"



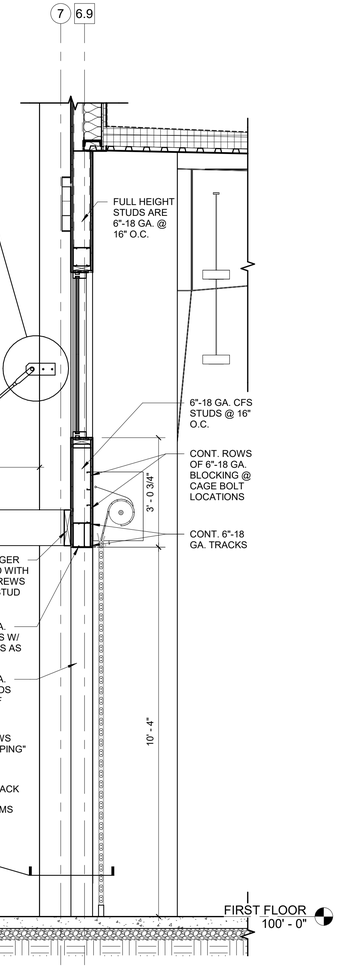
A5 RCP CAFE TRELLIS
1/4" = 1'-0"

DETAILS SIMILAR TO BOOKSTORE TRELLIS

D4 INFO CENTER SIDE
1/4" = 1'-0"

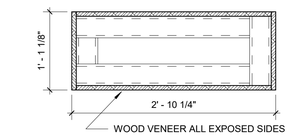


D3 INFO / WELCOME CENTER FRONT
1/4" = 1'-0"



A3.2 SECTION
1 1/2" = 1'-0"

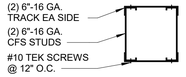
A3 BOOKSTORE TRELLIS AND SECURITY GRILL
1/2" = 1'-0"



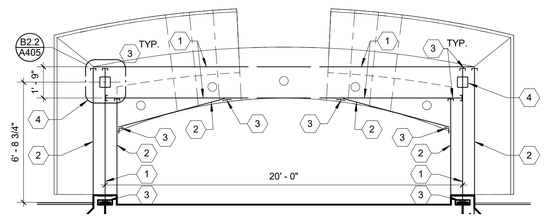
C2 CANOPY FRONT CENTER
1" = 1'-0"

CODED NOTES - STRUCTURAL NOTES

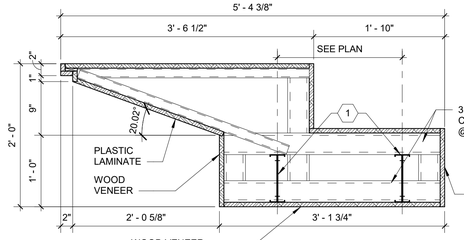
1 (2) 8"-16 GA. CFS STUDS, FASTEN WEB BACK TO BACK W/ #10 SCREWS @ 12" O.C. STAGGERED T&B
2 (1) 8"-16 GA. CFS STUDS AS HEADER
3 CONX: (2) CLARK-DIETRICH S545 CLIPS WEB TO WEB
4 BUILT-UP CFS COLUMN. SEE DETAIL B2.1



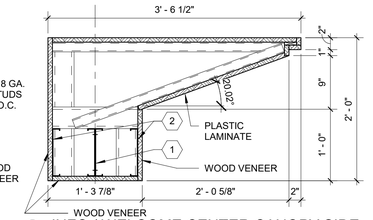
B2.2 DETAIL
1 1/2" = 1'-0"



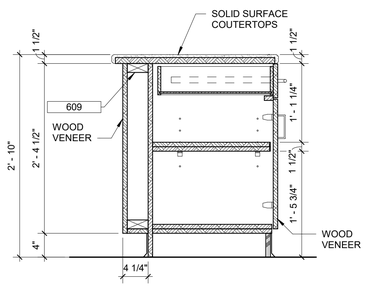
B1.2 RCP INFO / WELCOME CENTER STRUCTURE
1/4" = 1'-0"



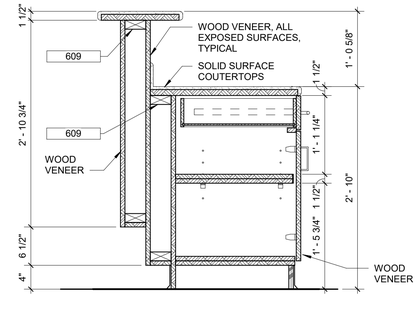
B2.1 INFO / WELCOME CENTER CANOPY FRONT
1" = 1'-0"



B1.1 INFO / WELCOME CENTER CANOPY SIDE
1" = 1'-0"



A2 SECTION - INFO / WELCOME CENTER COUNTER
1" = 1'-0"



A1 SECTION - INFO / WELCOME CENTER TRANSACTION
1" = 1'-0"

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REVISIONS/ADDENDUMS

ENLARGED PLANS AND ELEVATIONS

A405
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216118

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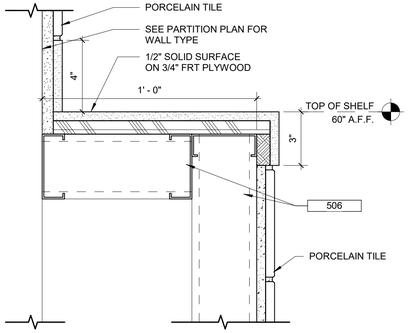
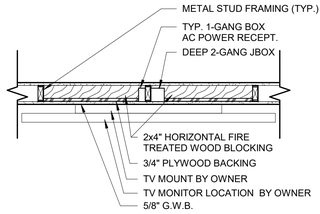
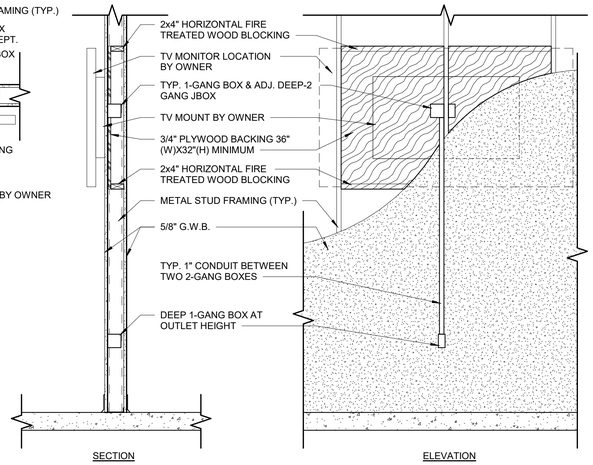


D5 SHELF ABOVE URINALS
3" = 1'-0"

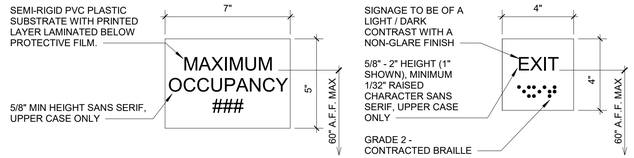


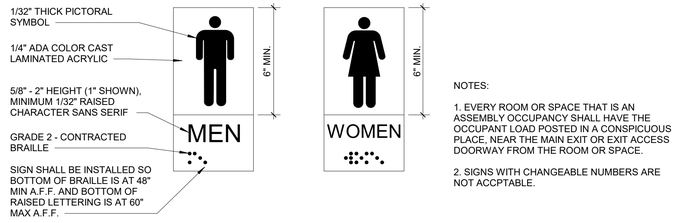
PLAN



SECTION ELEVATION

D2 TV MOUNT FRAMING
3/4" = 1'-0"





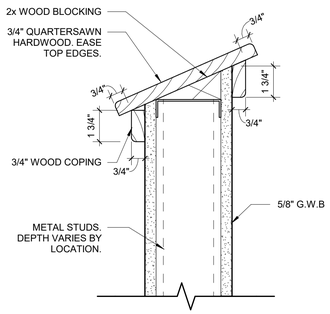
NOTES:

1. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE.

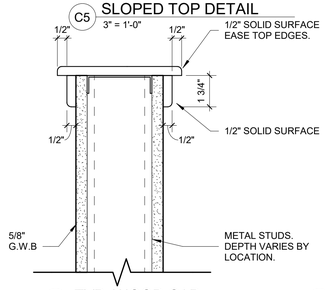
2. SIGNS WITH CHANGEABLE NUMBERS ARE NOT ACCPTABLE.

ALL REQUIRED SIGNAGE WILL COMPLY WITH A117.1 SECTION 703

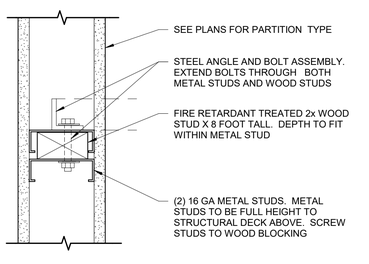
D1 CODE REQUIRED SIGNAGE
3" = 1'-0"



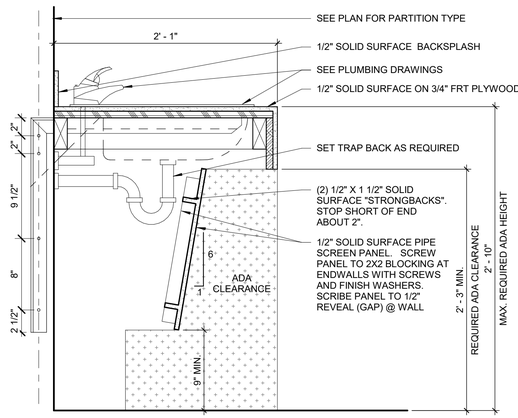
C5 SLOPED TOP DETAIL
3" = 1'-0"



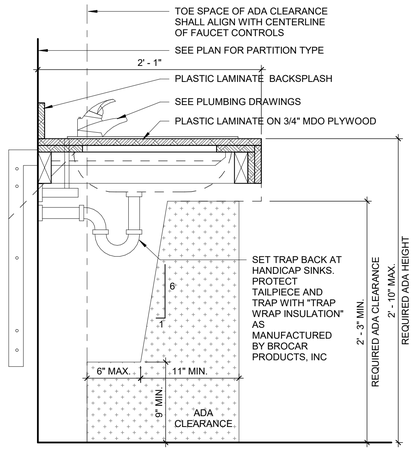
B5 TYP. WOOD CAP
3" = 1'-0"



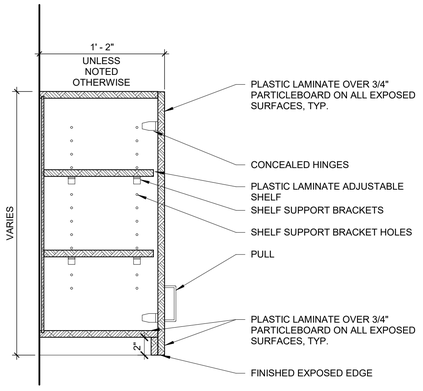
B4 CONCEALED COUNTER SUPPORT DETAIL
3" = 1'-0"



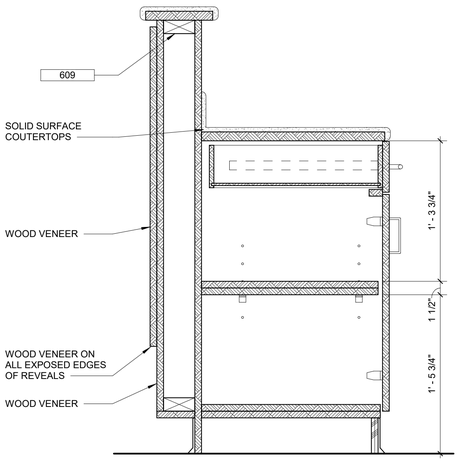
B3 LAV COUNTER - SS
1 1/2" = 1'-0"



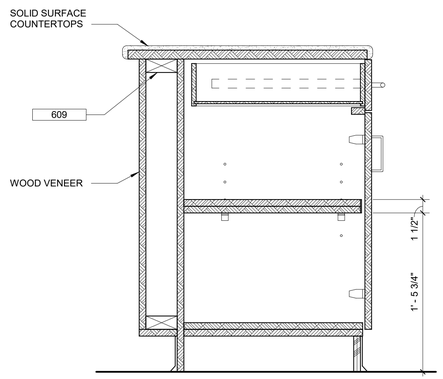
B2 PLASTIC LAMINATE VANITY
1 1/2" = 1'-0"



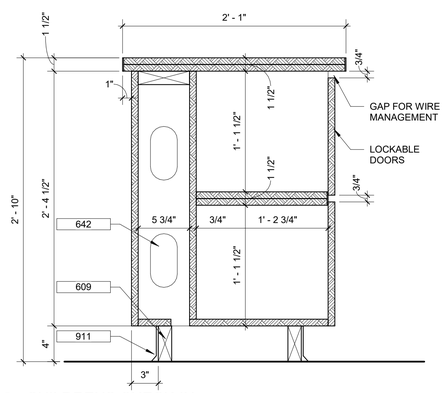
B1 TYP. WALL CABINET
1 1/2" = 1'-0"



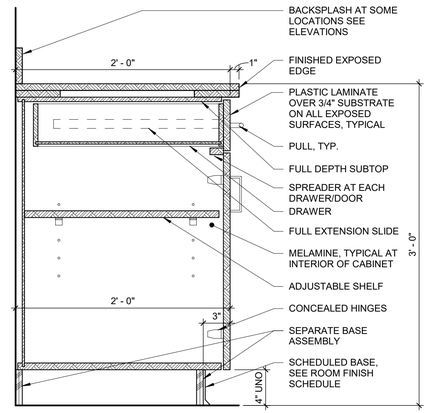
A5 SECTION - CAFE COUNTER TRANSACTION
1 1/2" = 1'-0"



A3 SECTION - CAFE COUNTER
1 1/2" = 1'-0"



A2 CHILDRENS CHECK-IN
1 1/2" = 1'-0"



A1 BASE CABINET TYPICAL
1 1/2" = 1'-0"

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Fax: (614) 875-7006
www.mcknightgroup.com

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

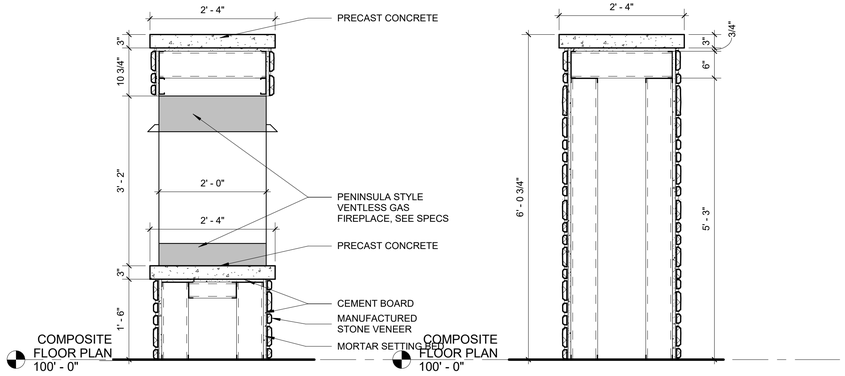
DETAILS

A501
OF SHEETS

216118

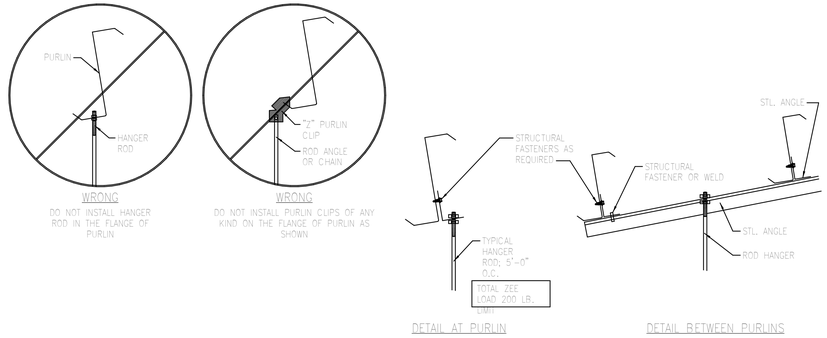
5 4 3 2 1

D C B A

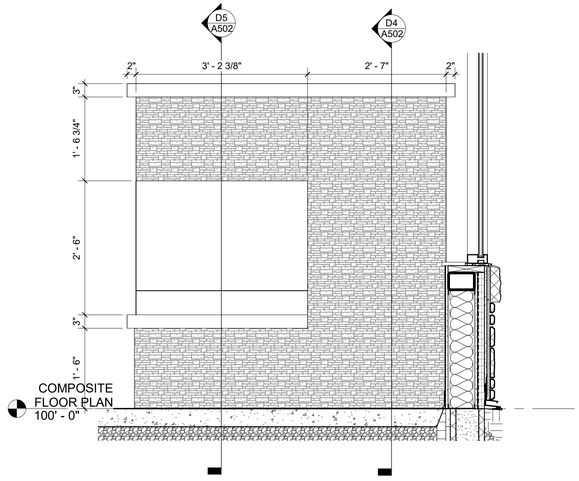


D5 FIREPLACE ENCLOSURE AT FIREBOX
3/4" = 1'-0"

D4 FIREPLACE ENCLOSURE
3/4" = 1'-0"

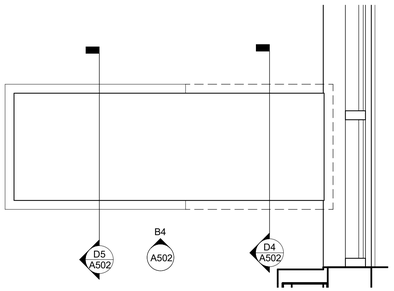


D1 PURLIN SUPPORT
3/4" = 1'-0"

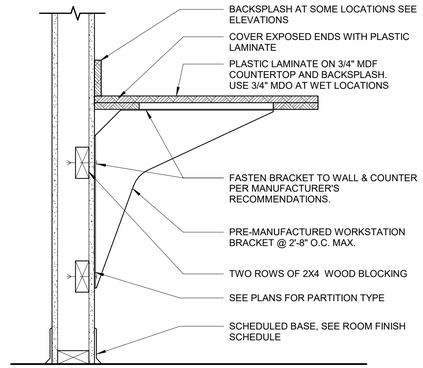


B4 FIREPLACE ENCLOSURE
3/4" = 1'-0"

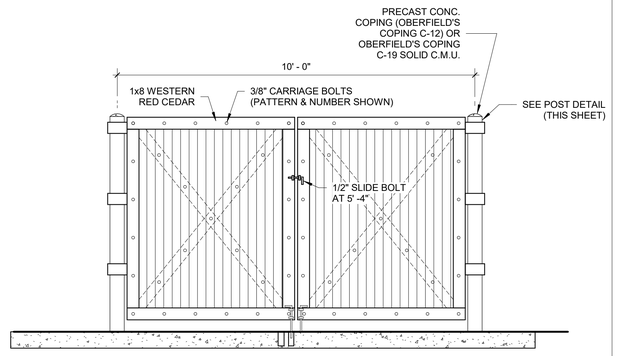
B1 DUMPSTER DOOR DETAIL
1 1/2" = 1'-0"



A4 ENLARGED PLAN - FIREPLACE ENCLOSURE
3/4" = 1'-0"



A3 COUNTERTOP EXPOSED SUPPORT
1 1/2" = 1'-0"



A1 DUMPSTER ENCLOSURE
1/2" = 1'-0"

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

DETAILS

A502
OF SHEETS

216118

5 4 3 2 1

D C B A

SECTION KEYED NOTES

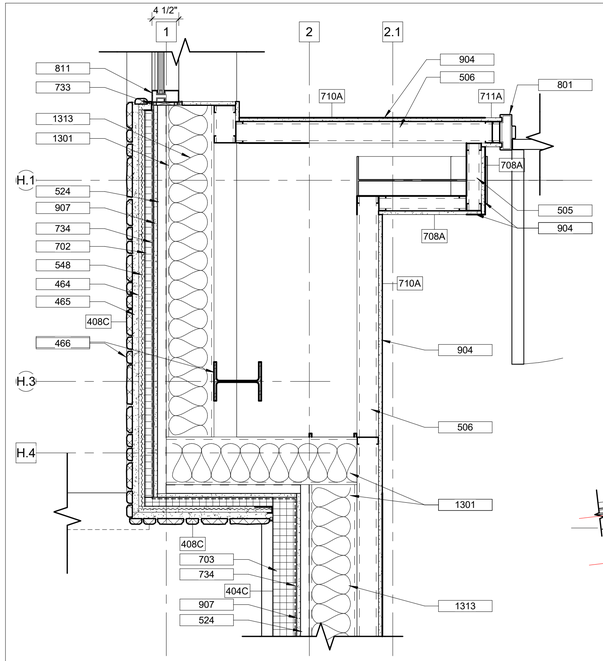
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
505	2 1/2" METAL STUDS @ 24" O.C., U.N.O.
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
518	STEEL COLUMN (SEE "S" SHEETS)
519	STEEL TUBE (SEE "S" SHEETS)
520	STEEL CHANNEL (SEE "S" SHEETS)
524	METAL DECK (22 GA, U.N.O.)

SECTION KEYED NOTES

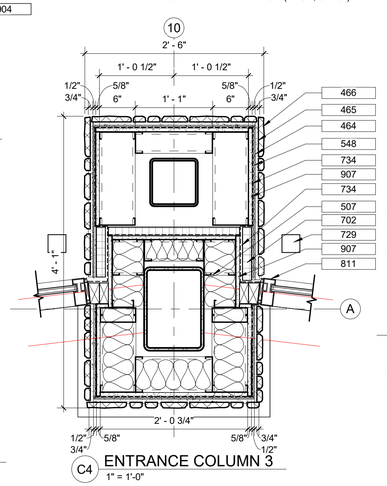
535	BREAK MTL. FINISH TO MATCH ALUM. FRAME
548	METAL LATH
549	CASING BEAD
608	2X WOOD BLOCKING
609	2X WOOD BLOCKING (PRESSURE TREATED)
701	2" RIGID PERIMETER INSULATION
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
711	FIBERGLASS BATTS (MIN. R-13); IF EXPOSED, TO BE FOIL FACED
712	6 1/4" FIBERGLASS BATTS (R-19); IF EXPOSED, TO BE FOIL FACED
729	GUTTER AND DOWNSPOUT (SEE ROOF PLAN)

SECTION KEYED NOTES

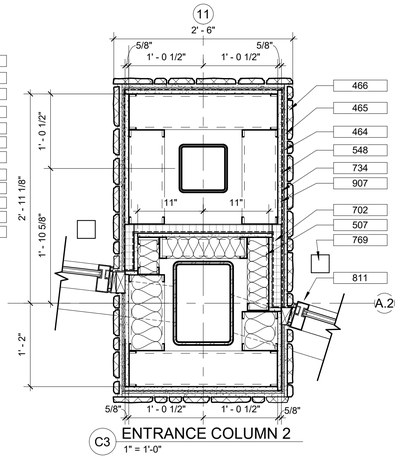
733	BACKER ROD AND SEALANT
734	WEATHER BARRIER
763	CONTINUOUS BREAK-METAL TRIM FINISH TO MATCH GLAZING SYSTEM
769	PREFINISHED COMPRESSION ROOF EDGE
777	SHOP FABRICATED EIFS TRIM
801	DOOR AND FRAME ASSEMBLY
811	ALUMINUM STOREFRONT SYSTEM
812	OVERHEAD DOOR
904	5/8" TYPE "X" G.W.B.
907	5/8" GLASS MAT GYPSUM SHEATHING
1301	METAL WALL GIRTS
1305	METAL BUILDING MAINFRAME/COLUMN
1313	6" PSK INSULATION



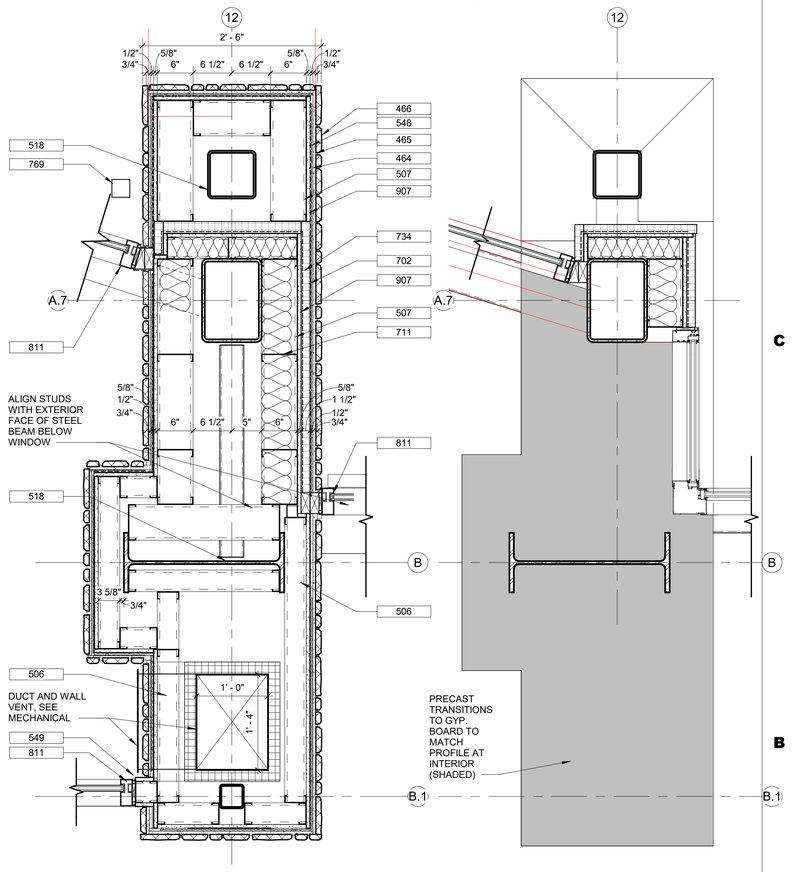
C5 PLAN DETAIL AT VESTIBULE / RECEPTION
1" = 1'-0"



C4 ENTRANCE COLUMN 3
1" = 1'-0"



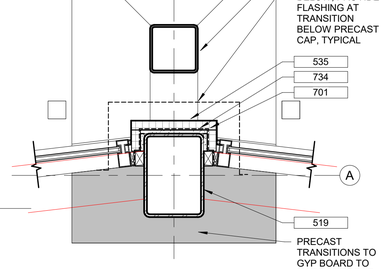
C3 ENTRANCE COLUMN 2
1" = 1'-0"



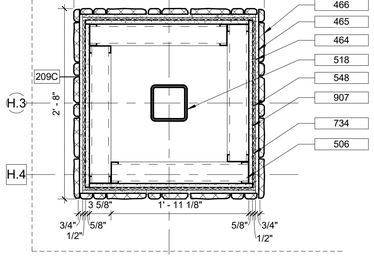
B2 ENTRANCE COLUMN 1
1" = 1'-0"

B1 ENTRANCE COLUMN 1 CAP
1" = 1'-0"

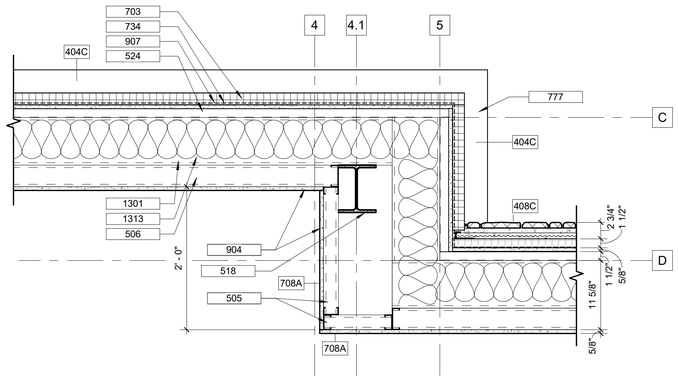
B5 PLAN DETAIL AT OFFICE / F.L. OFFICE
1" = 1'-0"



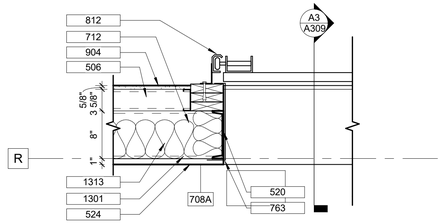
B4 METAL COLUMN WRAP
1" = 1'-0"



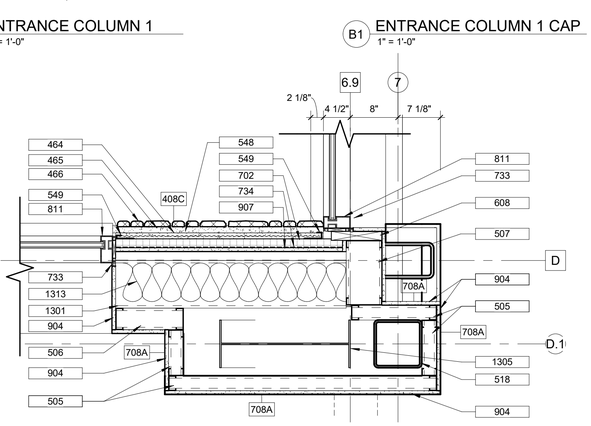
B3 SIDE ENTRANCE COLUMN
1" = 1'-0"



A3 PLAN DETAIL AT CLASSROOM
1" = 1'-0"



A5 PLAN DETAIL AT DOOR EX137B
1" = 1'-0"



A1 PLAN DETAIL AT BOOKSTORE / FOYER
1" = 1'-0"

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

PLAN DETAILS

A510
OF SHEETS

216118

5 4 3 2 1

D C B A

HARDWARE SET #1
Door: EX127

3 – Hinges T4A3386 4 ½" x 4 ½" NRP	32D	McKinney
1 – Cylindrical Lock AL80JD x SATURN	626	Schlage
1 – Cylinder 20-030	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Threshold 425E		National Guard
1 – Gasketing 160VA		National Guard
1 – Drip Strip 16A		National Guard
1 – Sweep 102VA		National Guard
1 – Electric Strike 4500C		HES
1 – Power Supply BPS-24-1		Securitron
1 – Door Contact		
1 – Card Reader by Others		

HARDWARE SET #2
Doors: 111, 140A, 140B, 140C, 140D, 140E, 140F, 140G, 145A, 145B, 150A, 150B, 156, 171B

6 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Surface Vertical Rod Exit Device 9927L 996L(STD)-LRB	26D	Von Duprin
1 – Surface Vertical Rod Exit Device 9927EO-LBR	26D	Von Duprin
1 – Cylinder 20-070	626	Schlage
1 – Cylinder 23-030	626	Schlage
2 – Door Closers 1461 CUSH x TBSRT	AL	LCN
2 – Kick Plates K1050		Rockwood
1 – Gasketing 5050B		National Guard
1 – Set of Meeting Astragal 115NA	AL	National Guard
2 – Auto Door Bottoms 420N	AL	National Guard
*Omit Door Seals at #111, 156 & 171B		

HARDWARE SET #3
Doors: 110, 137, 158, 171A

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Rim Exit Device 99L 996L(STD)	26D	Von Duprin
1 – Cylinder 20-079	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate 8" x 2" LDW	32D	Rockwood

HARDWARE SET #4
Doors: EX135, EX137A, EX170, EX180

3 – Hinges TA2314 4 ½" x 4 ½" NRP	32D	McKinney
1 – Rim Exit Device 99L 996L(STD)	26D	Von Duprin
1 – Cylinder 20-079	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Electric Strike 9600	630	HES
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate K1050	32D	Rockwood
1 – Power Supply BPS-24-1		Securitron
1 – Threshold 425E		National Guard
1 – Gasketing 160VA		National Guard
1 – Drip Strip 16A		National Guard
1 – Sweep 102VA		National Guard
1 – Door Contact		
1 – Card Reader by Others		

HARDWARE SET #5
Doors: 125, 131, 161

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL10S x SATURN	626	Schlage
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #6
Doors: 121, 128, 155, 163

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL40S x SATURN	626	Schlage
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Kick Plate 8" x 2" LDW	32D	Rockwood
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #7
Doors: 108, 134

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL40S x SATURN	626	Schlage
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #8
Doors: 159, 160

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Push Plate #70C – RWK	32D	Rockwood
1 – Pull Plate #110 x #70C	32D	Rockwood
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #9
Doors: 120, 126, 127A, 141, 142, 147, 148, 151, 152, 168, 169, 176, 179

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL70JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #10
Doors: 127B, 132, 138A

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL70JD x SATURN	626	Schlage
1 – Cylinder 20-030	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Seal 5050B @ 138A		National Guard

HARDWARE SET #11
Doors: 105, 116, 117A, 117B, 119

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL53JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #12
Doors: 106, 122, 129, 133, 154, 178, 184

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL80JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #13
Door: 174

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL80JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #14
Door: 164

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL70JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood

HARDWARE SET #15
Door: 180A,180B

3 – Hinges T4A3786 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL70JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Wall Stop #409	32D	Rockwood
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood

HARDWARE SET #16
Door: 127C

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Cylindrical Lock AL53JD x SATURN	626	Schlage
1 – Cylinder 23-030	626	Schlage
1 – Door Closer 1461 CUSH X TBSRT	AL	LCN
1 – Wall Stop	32D	Rockwood

HARDWARE SET #17
Door: 157

6 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Lockset AL80JD x SATURN	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
2 – Flush Bolts #555-12"	26D	Rockwood
1 – Dust Proof Strike #570	26D	Rockwood1

HARDWARE SET #18
Doors: 107, 130

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Entrance Lockset AL53JD x SATURN	626	Schlage
1 – Core Only 23-030 "C" Keyway	626	Schlage
1 – Door Closer 1461 RW/PA x TBSRT	AL	LCN
1 – Wall Stop #409	32D	Rockwood

HARDWARE SET #19
Doors: EX123, EX140, EX162

6 – Hinges TA2314 4 ½" x 4 ½" NRP	32D	McKinney
2 – Panic Devices 9927EO LBR	26D	Von Duprin
2 – Door Closers 1461 CUSH x TBSRT	AL	LCN
2 – Sweeps 200NA	AL	National Guard
1 – Drip Cap 16A	AL	National Guard
1 – Set of Weatherstrip 160VA	AL	National Guard
1 – Threshold 425E	AL	National Guard
1 – Meeting Astragal 5070B	AL	National Guard
2 – Door Contacts		

HARDWARE SET #20
Doors: 182, 183

3 – Hinges T4A3786 4 ½" x 4 ½"	26D	McKinney
1 – Classroom Lockset AL70JD x SATURN	626	Schlage
1 – Core 23-030 "C" Keyway	626	Schlage
1 – Door Closer/Stop 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood

HARDWARE SET #21
Doors: 112, 166, 167, 172, 173

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Storeroom Lockset AL80JD x SATURN	626	Schlage
1 – Core Only 23-030 "C" Keyway	626	Schlage
1 – Overhead Stop 10-XXX	652	Rixson

HARDWARE SET #22
Doors: 118, 165A, 165B, 177

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Privacy Set AL40S x SATURN	626	Schlage
1 – Overhead Stop 10-XXX	652	Rixson

HARDWARE SET #23
Door: 115A

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Storeroom Lockset AL80JD x SATURN	626	Schlage
1 – Core 23-030 "C" Keyway	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood

HARDWARE SET #24
Door: 109

6 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Storeroom Lockset AL80JD x SATURN	626	Schlage
1 – Core Only 23-030 "C" Keyway	626	Schlage
2 – Flush Bolts #555-12"	26D	Rockwood
2 – Overhead Stops 10-XXX	652	Rixson

HARDWARE SET #25
Door: NOT USED

HARDWARE SET #26
Doors: 100A, 100C, 100D

***Hardware for Storefront Doors to Consist of Manufacturers Standard Products for the Following Functions**

6 – Hinges T4A3786 4 ½" x 4 ½"	26D	McKinney
2 – Push Pull Bars BF15747	32D	Rockwood
2 – Door Closers 1461 CUSH x TBSRT	AL	LCN
2 – Kick Plates K1050 8" x 2" LDW	32D	Rockwood
*Seals by Door Supplier		

HARDWARE SET #27
Doors: 100B, 113

***Hardware for Storefront Doors to Consist of Manufacturers Standard Products for the Following Functions**

6 – Hinges T4A3786 4 ½"x 4 ½"	26D	McKinney
2 – Push Pull Bars BF15747	32D	Rockwood
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Auto Door Operator 4600	AL	LCN
*Actuators as Required		
2 – Kick Plates K1050 8" x 2" LDW	32D	Rockwood
*Seals by Door Supplier		

HARDWARE SET #28
Doors: 115B, 171

***Hardware for Storefront Doors to Consist of Manufacturers Standard Products for the Following Functions**

3 – Hinges TA2714 4 ½" x 4 ½"	26D	McKinney
1 – Lockset AL53RD x SATURN	626	Schlage
1 – Door Closer 1461 CUSH x TBSRT	AL	LCN
1 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood
*Seals by Door Supplier		

HARDWARE SET #29
Doors: EX100A, EX100C, EX100D

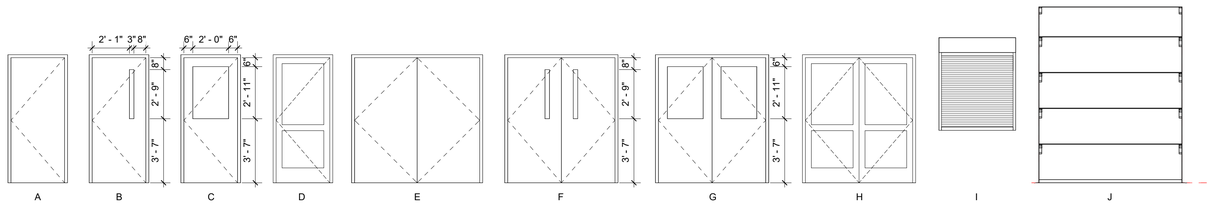
***Hardware for Storefront Doors to Consist of Manufacturers Standard Products for the Following Functions**

6 – Hinges T4A3386 4 ½" x 4 ½" NRP	32D	McKinney
2 – Exit Devices 9927-L-LBR	26D	Von Duprin
2 – Door Closers 1461 S-CUSH x TBSRT	AL	LCN
2 – Kick Plate K1050 8" x 2" LDW	32D	Rockwood
2 – Door Contacts		
1 – Meeting Astragal by Door Supplier		
1 – Set of Weatherstrip by Door Supplier		
1 – Threshold by Door Supplier		

HARDWARE SET #30
Doors: EX100B, EX113

***Hardware for Storefront Doors to Consist of Manufacturers Standard Products for the Following Functions**

6 – Hinges T4A3386 4 ½" x 4 ½" NRP	32D	McKinney
1 – Exit Device 9927-L-LBR	26D	Von Duprin
1 – Exit Device ELR-9927-L-LBR	26D	Von Duprin
1 – Door Closer 1461 S-CUSH x TBSRT	AL	LCN
1 – Auto Door Operator 4600	AL	LCN
*Actuators as Required		
1 – Power Transfer EPT-10	26D	Von Duprin
1 – Power Supply 900 Series	26D	Von Duprin
2 – Door Contacts		
1 – Meeting Astragal by Door Supplier		
1 – Set of Weatherstrip by Door Supplier		
1 – Threshold by Door Supplier		



DOOR TYPES
1/4" = 1'-0"

TYPE	SPECIFIED	EQUALS
HINGES	HAGER	IVES, STANLEY
CYLINDERS	SCHLAGE	NONE
LOCKSETS	SCHLAGE	NONE
CLOSERS	LCN	NONE
EXIT DEVICES	VON DUPRIN	NONE
STOPS, TRIM, BOLTS	HAGER	IVES, ROCKWOOD
THRESHOLDS & SEALS	NGP	HAGER, PEMCO

GENERAL HARDWARE NOTES

1. ALL FINISHES TO MATCH EXISTING. VERIFY ALL FINISHES WITH ARCHITECT BEFORE INSTALLATION.
2. ALL LOCKSETS USED IN THE PROJECT TO BE EQUIPPED WITH LEVER HANDLES, PER ADAAG.
3. ALL EGRESS DOORS WITH AN OCCUPANT LOAD GREATER THAN 50 TO HAVE PANIC HARDWARE.
4. ALL ALUMINUM STOREFRONT DOORS USED AS MEANS OF EGRESS TO HAVE PANIC HARDWARE.

FRAME TYPES
A = 2" HOLLOW METAL GYPSUM BOARD FRAME
B = 2" HOLLOW METAL FLUSH FRAME, 4" HEAD
C = 2" HOLLOW METAL GYP BOARD FRAME FOR DOUBLE DOOR
D = 2" HOLLOW METAL FLUSH FRAME, 4" HEAD FOR DOUBLE DOOR
E = ALUMINUM STOREFRONT FRAME FOR SINGLE DOOR
F = ALUMINUM STOREFRONT FRAME FOR DOUBLE DOOR

AL = ALUMINUM
WD = WOOD

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UPPER MARLBORO, MD 20772

DRAWING	DATE
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☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

DOOR HARDWARE SETS

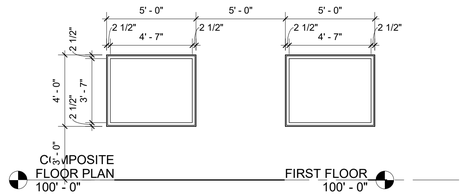
A601
OF SHEETS

216118

5 4 3 2 1
D C B A

= SPANDREL GLASS (TYPE G3)

T = TEMPERED GLASS (TYPE G2)



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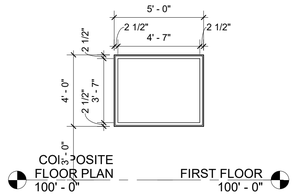

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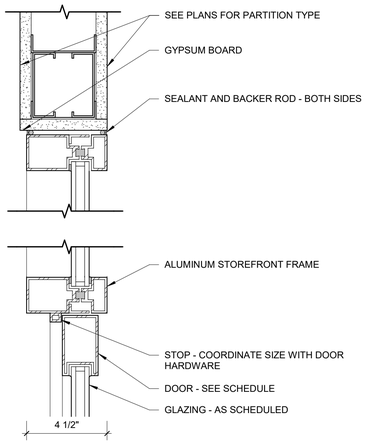
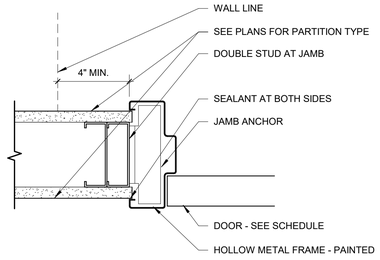
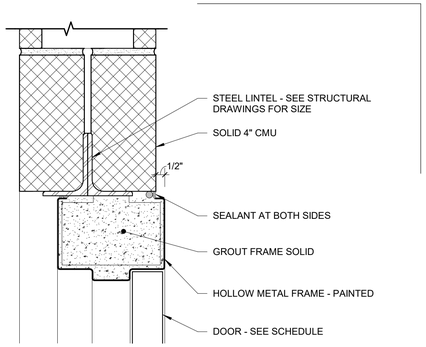


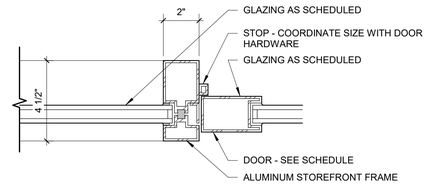
D2 HEAD / TRANSOM DETAIL
3" = 1'-0"



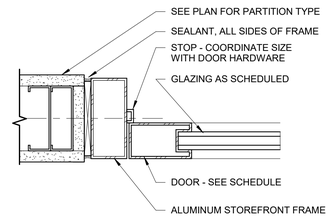
D1 TYP. DOOR JAMB & HEAD
3" = 1'-0"



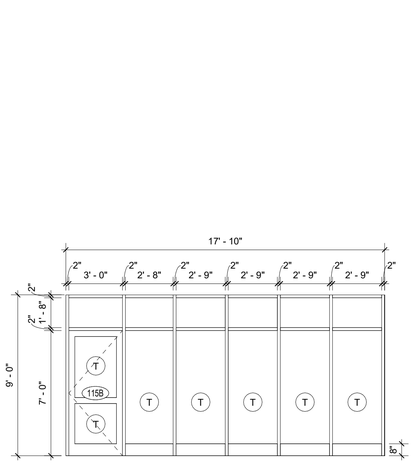
C1 HEAD DETAIL
3" = 1'-0"



B1 JAMB DETAIL
3" = 1'-0"



A1 JAMB DETAIL (HEAD SIM.)
3" = 1'-0"



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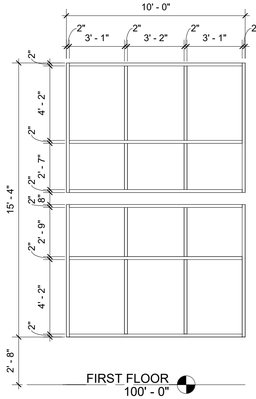

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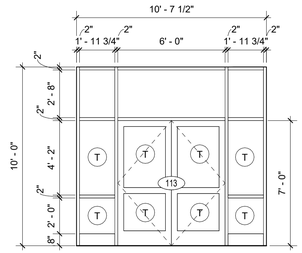

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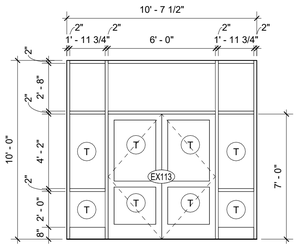

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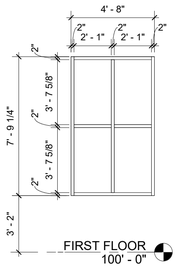

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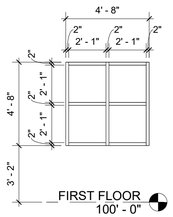

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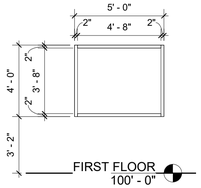

A

5 4 3 2 1

B

A

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☐ PERMIT SET	

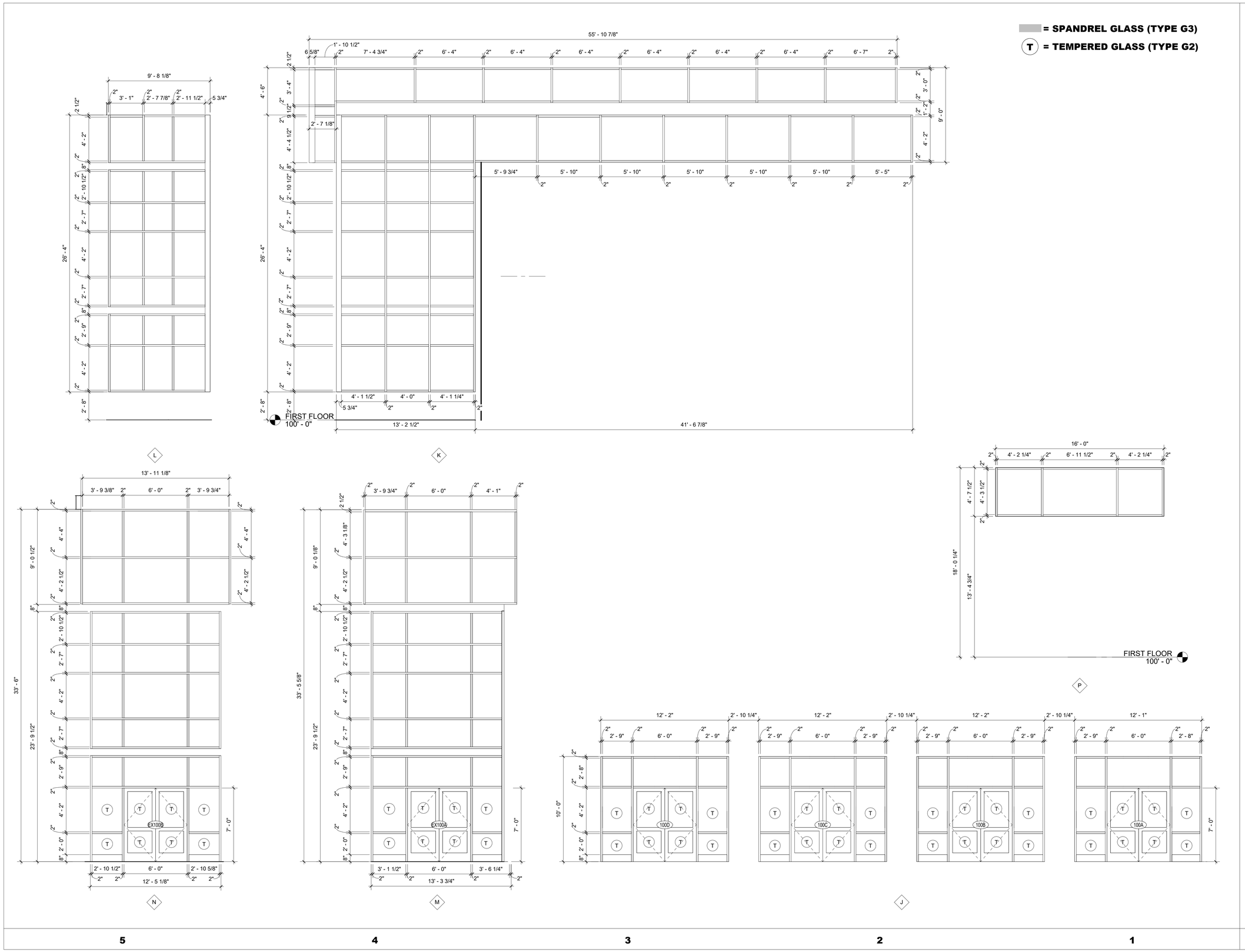
REVISIONS/ADDENDUMS

WINDOW ELEVATIONS

A602

OF SHEETS

216118



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PERMIT SET	

REVISIONS/ADDENDUMS

WINDOW ELEVATIONS

A603

OF SHEETS

216118

DOOR SCHEDULE

DOOR NO.	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR FINISH	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	FIRE RATING	HARDWARE SET NO.	REMARKS
COMPOSITE FLOOR PLAN											
100A	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		26	
100B	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		27	AUTO DOOR OPERATOR ON ONE LEAF WITH PUSH-PLATES BOTH SIDE S OF DOOR
100C	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		26	
100D	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		26	
105	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		11	
106	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
107	3' - 0"	7' - 0"	MTL	C	PAINT	MTL-K	A	PAINT		18	
108	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		7	
109	6' - 0"	7' - 0"	WD	E	PRE-FIN	MTL-K	C	PAINT		24	
110	3' - 0"	7' - 0"	WD	E	PRE-FIN	MTL-K	A	PAINT		3	
111	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	
112	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		21	
113	6' - 0"	7' - 0"	AL	H	PRE-FIN	MTL-K	C	PRE-FIN		27	AUTO DOOR OPERATOR ON ONE LEAF WITH PUSH-PLATES BOTH SIDE S OF DOOR
115A	3' - 0"	7' - 0"	WD	C	PRE-FIN	MTL-K	A	PAINT		23	
115B	3' - 0"	7' - 0"	AL	D	PRE-FIN	MTL-K	E	PRE-FIN		28	
116	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		11	
117A	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		11	
117B	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		11	
118	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		22	
119	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		11	
120	3' - 0"	7' - 0"	MTL	C	PAINT	MTL-K	A	PAINT		9	
121	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		6	
122	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
125	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		5	
126	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
127A	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
127B	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		10	
127C	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		16	
128	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		6	
129	2' - 6"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
130	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		18	
131	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		5	
132	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		10	
133	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
134	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		7	
137	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		3	
138A	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT	60	10	
138B	8' - 0"	7' - 0"	SPECIAL	J	PRE-FIN	SPECIAL	SPECIAL	PAINT	60		RATED OVERHEAD COILING DOOR
140A	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140B	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140C	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140D	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140E	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140F	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
140G	6' - 0"	7' - 0"	WD	E	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
141	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
142	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
145A	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
145B	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
146	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT			
147	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
148	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
150A	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
150B	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	AUTO DOOR BOTTOM AND SOUND SEALS
151	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
152	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
154	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
155	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		6	
156	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	
157	6' - 0"	7' - 0"	WD	E	PRE-FIN	MTL-K	C	PAINT	60	17	
158	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		3	
159	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		8	
160	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		8	
161	3' - 0"	7' - 0"	MTL	C	PAINT	MTL-K	A	PAINT		5	
163	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		6	
164	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		14	
165A	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		22	
165B	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		22	
166	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		21	
167	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		21	
168	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
169	3' - 0"	7' - 0"	MTL	C	PAINT	MTL-K	A	PAINT		9	
171	3' - 0"	7' - 0"	AL	D	PRE-FIN	MTL-K	E	PRE-FIN		28	
171A	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		3	
171B	6' - 0"	7' - 0"	WD	F	PRE-FIN	MTL-K	C	PAINT		2	
172	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		21	
173	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		21	
174	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		13	
176	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT	60	9	
177	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		22	
178	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
179	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		9	
180A	3' - 6"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		15	
180B	3' - 0"	7' - 0"	WD	B	PRE-FIN	MTL-K	A	PAINT		15	
180C	2' - 0"	3' - 6"	M+L	I	PRE-FIN	MTL-K	B	PAINT			ROLLING SHUTTER
182	3' - 6"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		20	
183	3' - 6"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		20	
184	3' - 0"	7' - 0"	WD	A	PRE-FIN	MTL-K	A	PAINT		12	
EX100A	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		29	
EX100B	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		30	CARD READER AND AUTO DOOR OPERATOR ON ONE LEAF WITH PUSH-PLATES BOTH SIDE S OF DOOR
EX100C	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		29	
EX100D	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		29	
EX113	6' - 0"	7' - 0"	AL	H	PRE-FIN	AL	F	PRE-FIN		30	CARD READER AND AUTO DOOR OPERATOR ON ONE LEAF WITH PUSH-PLATES BOTH SIDE S OF DOOR
EX123	6' - 0"	7' - 0"	MTL	G	PAINT	MTL-W	D	PAINT		19	NO EXTERIOR HARDWARE, EGRESS ONLY, INSULATED DOOR
EX127	3' - 0"	7' - 0"	MTL	B	PAINT	MTL-W	B	PAINT		1	CARD READER AND ELECTRIC STRIKE, INSULATED DOOR
EX135	3' - 0"	7' - 0"	MTL	A	PAINT	MTL-W	B	PAINT		4	CARD READER AND ELECTRIC STRIKE, INSULATED DOOR
EX137A	3' - 0"	7' - 0"	MTL	A	PAINT	MTL-W	B	PAINT		4	CARD READER AND ELECTRIC STRIKE, INSULATED DOOR
EX137B	8' - 0"	7' - 0"	SPECIAL	J	PRE-FIN	SPECIAL	SPECIAL	PAINT			INSULATED OVERHEAD DOOR
EX140	6' - 0"	7' - 0"	MTL	E	PAINT	MTL-W	D	PAINT		19	NO EXTERIOR HARDWARE, EGRESS ONLY, INSULATED DOOR
EX162	6' - 0"	7' - 0"	MTL	G	PAINT	MTL-W	D	PAINT		19	NO EXTERIOR HARDWARE, EGRESS ONLY, INSULATED DOOR
EX170	3' - 0"	7' - 0"	MTL	C	PAINT	MTL-W	B	PAINT		4	CARD READER AND ELECTRIC STRIKE, INSULATED DOOR
EX180	3' - 6"	7' - 0"	MTL	B	PAINT	MTL-W	B	PAINT		4	CARD READER AND ELECTRIC STRIKE, INSULATED DOOR

ROOM FINISH SCHEDULE

Number	Name	Wall Finish	Floor Finish	Base Finish	Ceiling	Comments
100	VESTIBULE	PAINT	CPT-1	4" VINYL COVE	DRYWALL PAINTED	
101	FOYER	PAINT- 2 ACCENT COLORS / STONE	LVT-1, LVT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED/ CEILING CLOUDS	RECOMMEND 2 COATS OF SPRAY PLAST, TRANSITION FOR PAINT FINISH FROM EG-SHELL TO FLAT
102	SEATING	PAINT- 2 ACCENT COLORS / STONE	LVT-1, LVT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED/ CEILING CLOUDS	RECOMMEND 2 COATS OF SPRAY PLAST, TRANSITION FOR PAINT FINISH FROM EG-SHELL TO FLAT
103	SEATING	PAINT- 2 ACCENT COLORS / STONE	LVT-1, LVT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED/ CEILING CLOUDS	RECOMMEND 2 COATS OF SPRAY PLAST, TRANSITION FOR PAINT FINISH FROM EG-SHELL TO FLAT
104	BOOKSTORE	PAINT- 2 ACCENT COLORS	LVT-1, LVT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED	
105	SEC.	PAINT	CPT-2	4" VINYL COVE	TYPE A	LAMINATE COUNTER
106	JAN.	PAINT	SEALED CONCRETE	6" VINYL COVE	NONE	
107	MED.	EPOXY PAINT	LVT-1	4" VINYL COVE	TYPE B	LAMINATE COUNTER AND CABINETS
108	T.	EPOXY PAINT	LVT-1	6" VINYL COVE	TYPE B	SOLID SURFACE COUNTER
109	ST.	PAINT	CPT-2	4" VINYL COVE	TYPE A	
110	CLASS	PAINT - 1 ACCENT	CPT-2	4" VINYL COVE	TYPE A	
111	CLASS	PAINT - 1 ACCENT	CPT-2	4" VINYL COVE	TYPE A	
112	ST.	PAINT	CPT-2	4" VINYL COVE	TYPE A	
113	VESTIBULE	PAINT	CPT-1	4" VINYL COVE	DRYWALL PAINTED	
114	CORRIDOR	PAINT	LVT-1	4" VINYL COVE	TYPE A	
115	RECEPTION	PAINT	CPT-2	4" VINYL COVE	TYPE B	
116	OFFICE	PAINT	CPT-2	4" VINYL COVE	TYPE B	
117	F.L. OFFICE	PAINT - 1 ACCENT	CPT-2	4" VINYL COVE	TYPE B	
118	R.	EPOXY PAINT	LVT-1	6" VINYL COVE	TYPE B	LAMINATE COUNTER
119	WK.	PAINT	CPT-2	4" VINYL COVE	TYPE B	SOLID SURFACE COUNTER, LAMINATE CABINETS
120	CORRIDOR	PAINT	LVT-1	4" VINYL COVE	TYPE B	
121	T.	EPOXY PAINT	LVT-1	6" VINYL COVE	TYPE B	LAMINATE COUNTER
122	ST.	PAINT	CPT-2	4" VINYL COVE	TYPE B	
123	CORRIDOR	PAINT	LVT-1	4" VINYL COVE	TYPE A	
125	LOUNGE	PAINT - 1 ACCENT	CPT-2	4" VINYL COVE	TYPE B	
126	FIN. OFFICE	PAINT	CPT-2	4" VINYL COVE	TYPE B	
127	PASTORS OFFICE	PAINT - 1 ACCENT	CPT-2	4" VINYL COVE	TYPE B	
128	T.	EPOXY PAINT	LVT-1	6" VINYL COVE	TYPE B	SOLID SURFACE COUNTER
129	ST.	PAINT	CPT-2	4" VINYL COVE	TYPE B	
130	OFFICE	PAINT	CPT-2	4" VINYL COVE	TYPE B	
131	CLASS / CONFERENCE	PAINT - 1 ACCENT	CPT-2, LVT-2	4" VINYL COVE	TYPE A	SOLID SURFACE COUNTER, LAMINATE CABINETS: LVT 36" IN FRONT OF CABINETS
132	GREEN ROOM	PAINT	CPT-2	4" VINYL COVE	TYPE B	LAMINATE COUNTER AND CABINETS
133	ST.	PAINT	CPT-2	4" VINYL COVE	TYPE B	
134	T.	PAINT / PT	PT	PT	TYPE B	WET WALL: PORCELAIN TILE TO 4'-9" AFF.
135	SIDE	PAINT	CPT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED	
136	PLATFORM	PAINT / STONE	CPT-4 ON STAGE	WOOD BASE, STAINED	EXPOSED STRUCTURE PAINTED	
137	SIDE	PAINT	CPT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED	
138	STORAGE	PAINT	SEALED CONCRETE	4" VINYL COVE	EXPOSED STRUCTURE PAINTED	
140	AUDITORIUM	PAINT / STONE	CPT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED / TYPE C CEILING CLOUDS	
141	OPEN OFFICE	PAINT	CPT-2	4" VINYL COVE	TYPE A	
142	TEMP. CLASS	PAINT	CPT-2	4" VINYL COVE	TYPE A	
144	MEN	PAINT / PT, SEE NOTES	PT	PT	TYPE A	SOLID SURFACE COUNTER, PT FLOOR TO CEILING ON TOILET, URINAL, AND PLAN WEST WALLS
145	VESTIBULE	PAINT	CPT-2	4" VINYL COVE	TYPE A	
146	A.V.L.	PAINT	CPT-2 WITH STAIR NOSING	4" VINYL COVE	TYPE C	LAMINATE COUNTER
147	USHER	PAINT	CPT-2	4" VINYL COVE	TYPE A	
148	SEC.	PAINT	CPT-2	4" VINYL COVE	TYPE A	LAMINATE COUNTER
149	A.V.L.	PAINT	CPT-2 WITH STAIR NOSING	4" VINYL COVE	NONE	LAMINATE COUNTER
150	VESTIBULE	PAINT	CPT-2	4" VINYL COVE	TYPE A	
151	TEMP. CLASS	PAINT	CPT-2	4" VINYL COVE	TYPE A	
152	TEMP. CLASS	PAINT	CPT-2	4" VINYL COVE	TYPE A	
153	WOMEN	PAINT / PT, SEE NOTES	PT	PT	TYPE A	SOLID SURFACE COUNTER, PT FLOOR TO CEILING ON TOILET AND PLAN EAST WALLS. FULL LENGTH MIRROR ON PLAN WEST WALL NEXT TO COUNTER AND SHORT PLAN NORTH WALL
154	JAN.	PAINT	SEALED CONCRETE	6" VINYL COVE	NONE	
155	FAMILY RESTROOM	PAINT / PT, SEE NOTES	PT	PT	TYPE B	SOLID SURFACE COUNTER, PT FLOOR TO CEILING ON WET WALL
156	ELEM. CLASS	PAINT - 1 ACCENT	CPT-3	4" VINYL COVE	TYPE A	
157	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
158	YOUTH LOUNGE	PAINT - 1 ACCENT	CPT-3	4" VINYL COVE	TYPE A	
159	MEN	PAINT / PT, SEE NOTES	PT	PT	TYPE A	WET WALLS: PORCELAIN TILE 4'-9" AFF. ONLY; LAMINATE COUNTER
160	WOMEN	PAINT / PT, SEE NOTES	PT	PT	TYPE A	WET WALLS: PORCELAIN TILE 4'-9" AFF. ONLY; LAMINATE COUNTER
161	CRIBS	PAINT	CPT-3	4" VINYL COVE	TYPE A	
162	CORRIDOR	PAINT	LVT-1	4" VINYL COVE	TYPE A	
163	CRY / NRS.	PAINT - 1 ACCENT	CPT-3	4" VINYL COVE	TYPE A	
164	INFANTS	PAINT - 1 ACCENT	CPT-3; LVT-1	4" VINYL COVE	TYPE A	LAMINATE COUNTER AND CABINETS: LVT 36" IN FRONT OF CABINETS
165	T.	EPOXY PAINT	LVT-1	4" VINYL COVE	TYPE A	
166	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
167	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
168	TODDLERS	PAINT - 1 ACCENT	CPT-3; LVT-1	4" VINYL COVE	TYPE A	LAMINATE COUNTER AND CABINETS: LVT 36" IN FRONT OF CABINETS
169	INFO AREA	PAINT - 1 ACCENT	LVT-1	4" VINYL COVE	TYPE A	LAMINATE COUNTER, LAMINATE WALL FRONT
170	CHECK-IN AREA	PAINT - 1 ACCENT	LVT-1	4" VINYL COVE	TYPE A	LAMINATE COUNTER AND CABINETS
171	PRESCHOOL THEATER	PAINT- 2 ACCENT COLORS	CPT-3	4" VINYL COVE	TYPE A	
171A	PLAT.	PAINT	CPT-4	4" VINYL COVE	TYPE A	
172	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
173	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
174	ELE.	TAPE AND PRIME	SEALED CONCRETE	4" VINYL COVE	NONE	
175	SPR.	TAPE AND PRIME	SEALED CONCRETE	4" VINYL COVE	NONE	
176	ST.	PAINT	SEALED CONCRETE	4" VINYL COVE	NONE	
177	T.	EPOXY PAINT	LVT-1	6" VINYL COVE	TYPE A	
178	ST.	PAINT	CPT-3	4" VINYL COVE	TYPE A	
179	PRESCHOOL	PAINT - 1 ACCENT	CPT-3; LVT-1	4" VINYL COVE	TYPE A	LAMINATE COUNTER AND CABINETS: LVT 36" IN FRONT OF CABINETS
180	COMMERCIAL KITCHEN	PAINT, FRP WHERE REQUIRED	PU	PU 6" BASE	TYPE D	SOLID SURFACE COUNTER, STAINLESS STEEL ON ISLAND WITH SINK
181	CAFE	PAINT- 2 ACCENT COLORS	LVT-1, LVT-2	4" VINYL COVE	EXPOSED STRUCTURE PAINTED / TYPE C CEILING CLOUDS	SOLID SURFACE COUNTER / WOOD LOOK VENEER FRONT, 2 COLORS
182	STORAGE	PAINT	PU	PU 6" BASE	TYPE D	
183	PANTRY	PAINT	PU	PU 6" BASE	TYPE D	
184	ROOF ACCESS				NONE	

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

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☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

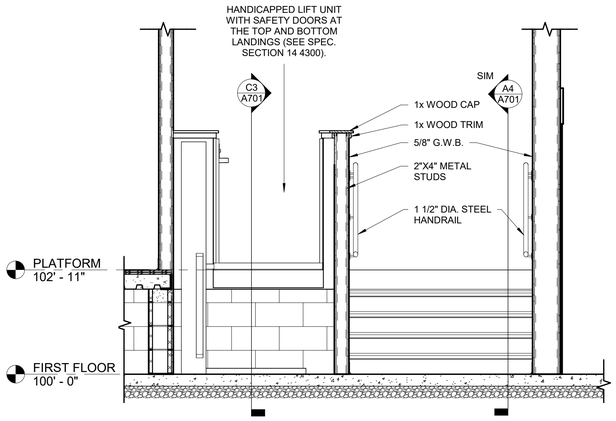
REVISIONS/ADDENDUMS

FINISH AND DOOR SCHEDULE

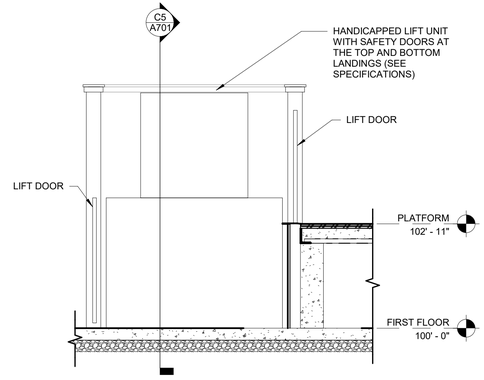
A604

OF SHEETS

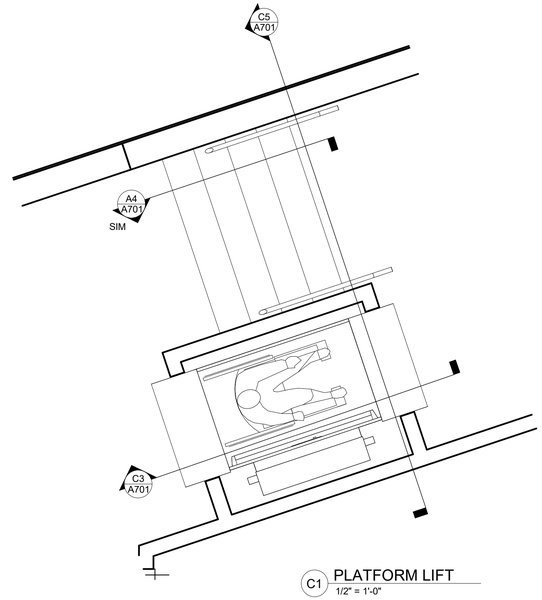
216118



C5 PLATFORM LIFT AND STAIRS
1/2" = 1'-0"



C3 PLATFORM LIFT SIDE
1/2" = 1'-0"



C1 PLATFORM LIFT
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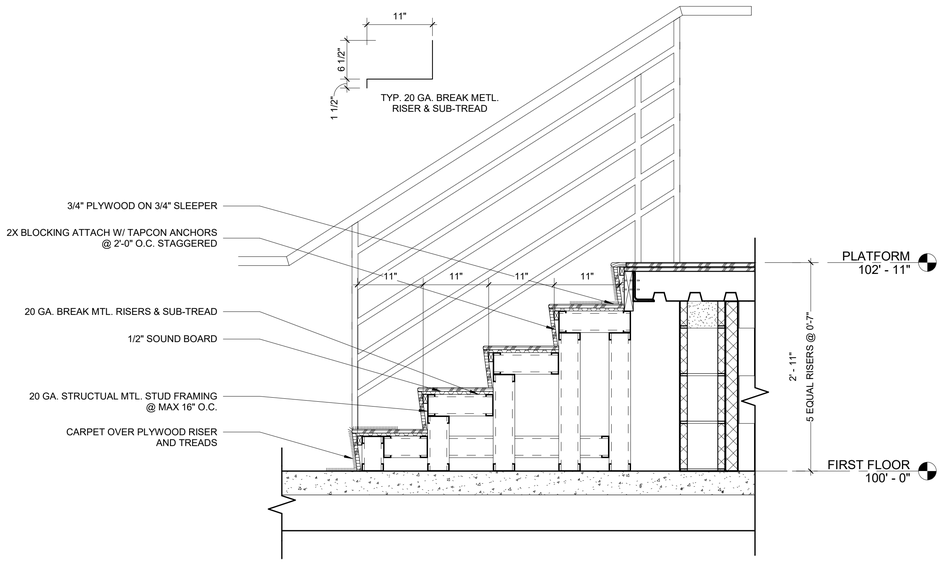
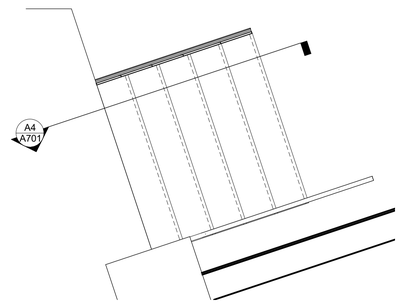


A4 PLATFORM SIDE STAIR
1" = 1'-0"



A3 PLATFORM SIDE STAIR
1/2" = 1'-0"

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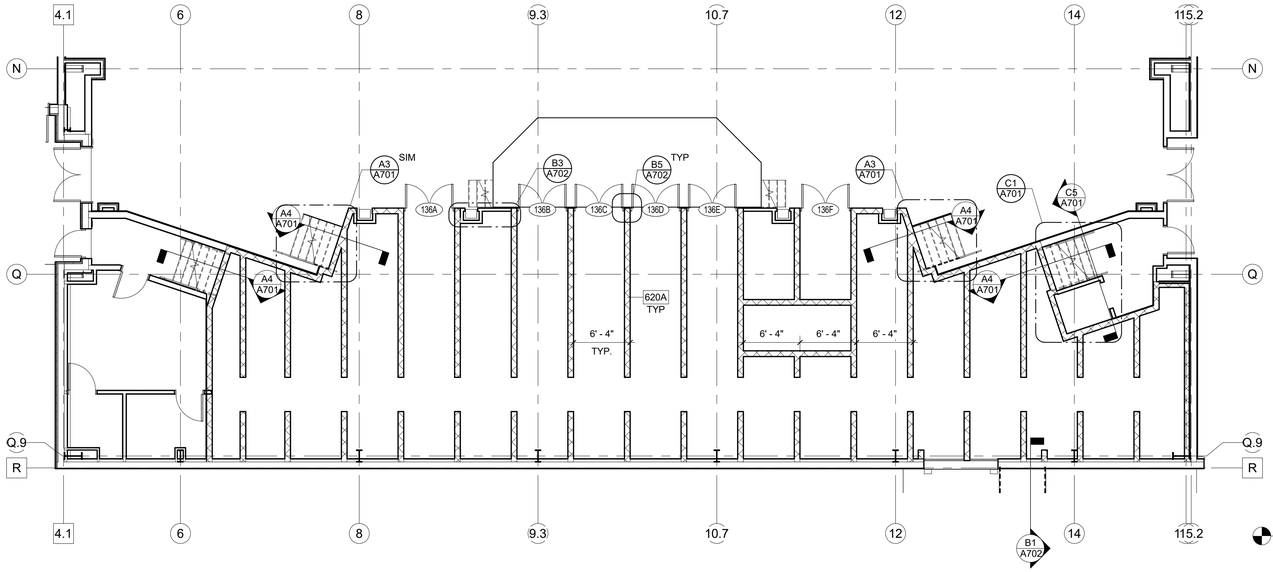
REVISIONS/ADDENDUMS

STAIR AND PLATFORM DETAILS

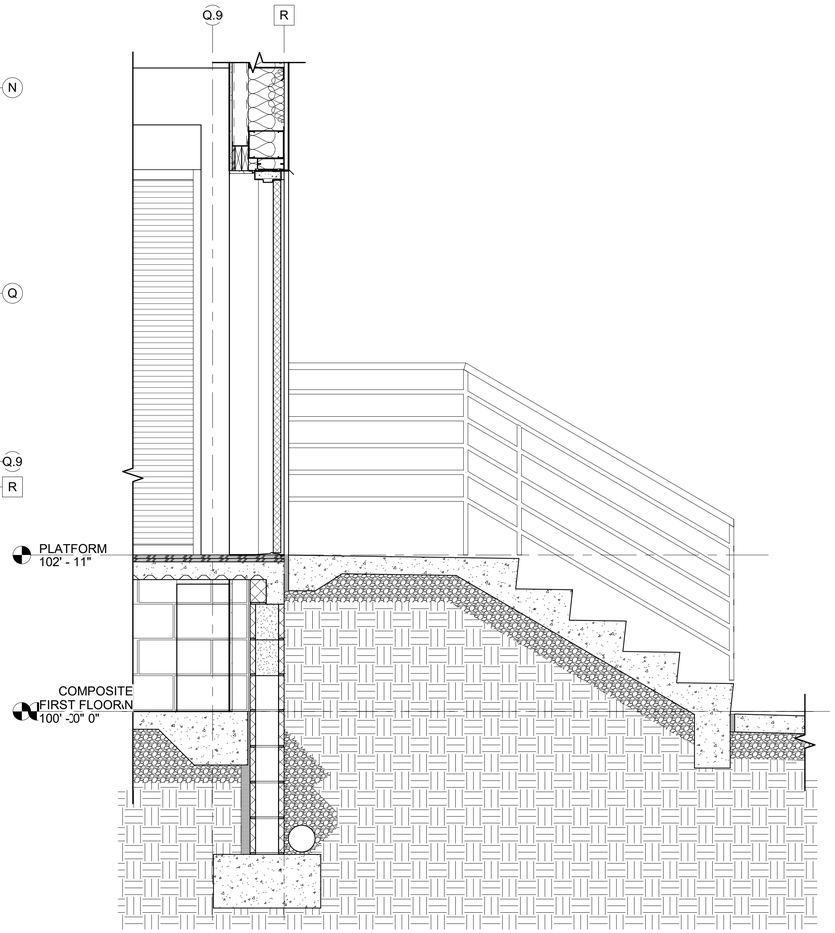
A701

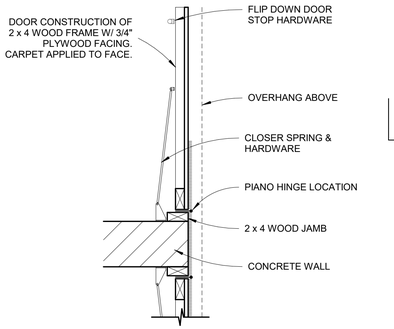
OF SHEETS

216118

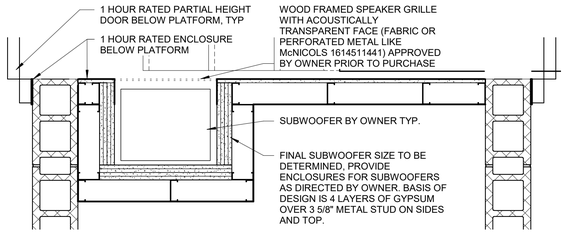


C3 UNDER PLATFORM PLAN
1/8" = 1'-0"

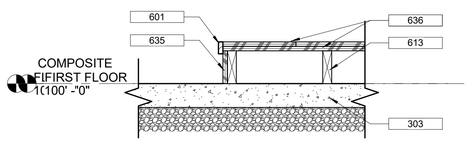




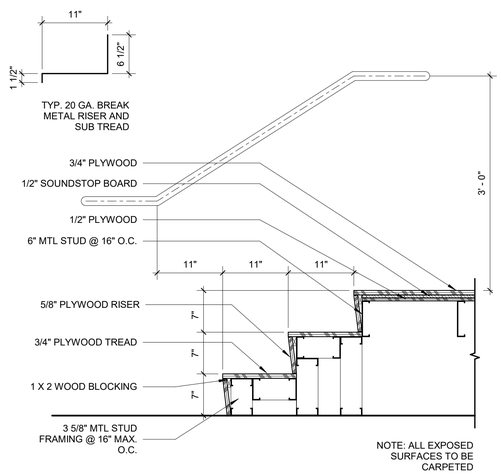
B5 PLATFORM DOORS
1" = 1'-0"



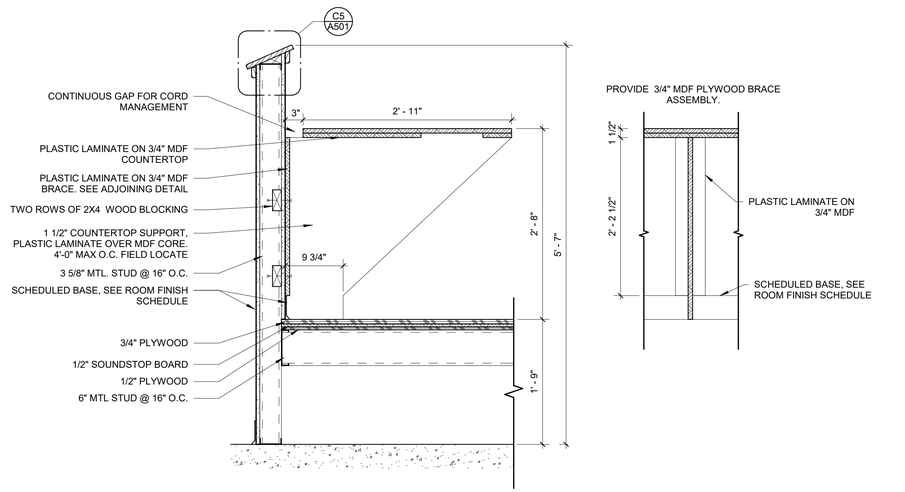
B3 SUBWOOFER ENCLOSURE
1" = 1'-0"



A5 PRESCHOOL PLATFORM SECTION
1" = 1'-0"



A4 AVL BOOTH STAIR
1" = 1'-0"



A1 AVL BOOTH
1" = 1'-0"

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☐ PERMIT SET	

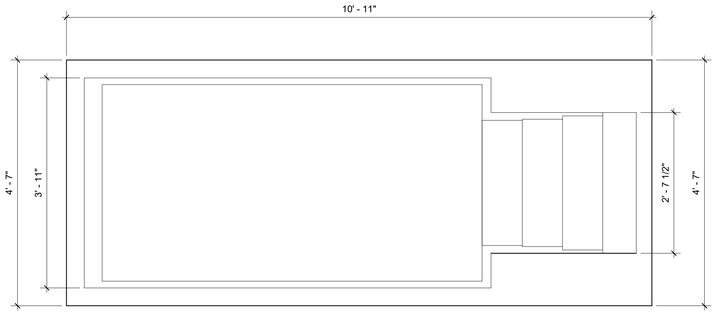
REVISIONS/ADDENDUMS

STAIR AND PLATFORM DETAILS

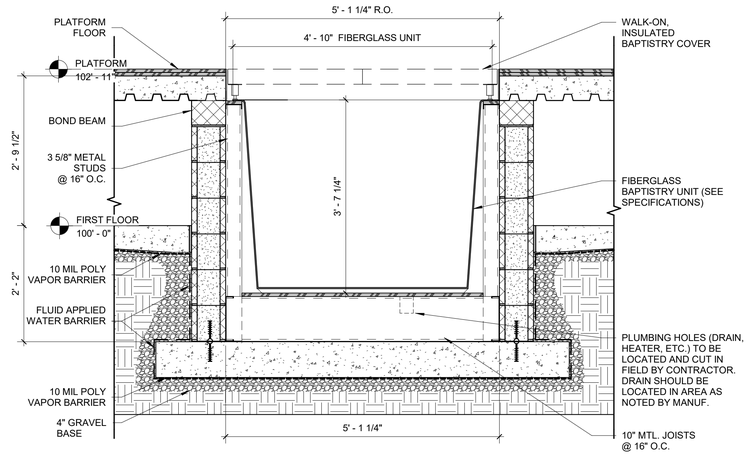
A702

OF SHEETS

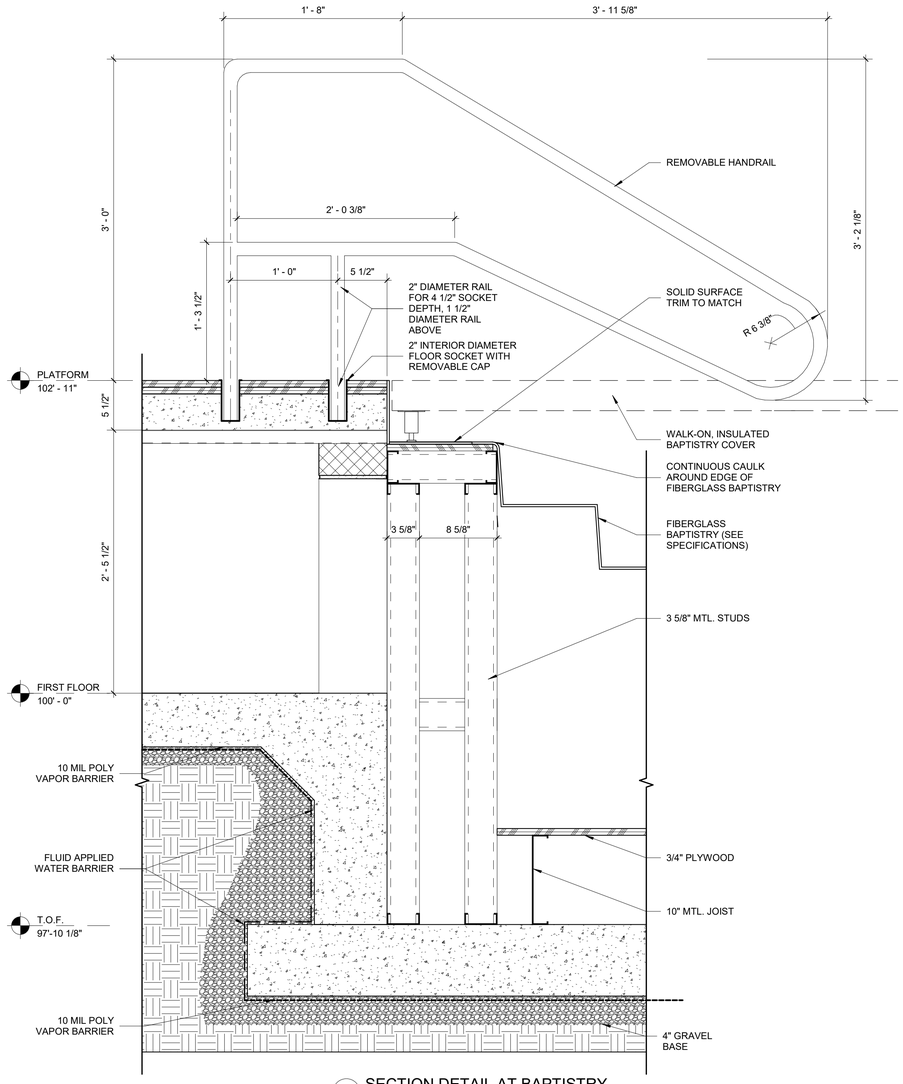
216118



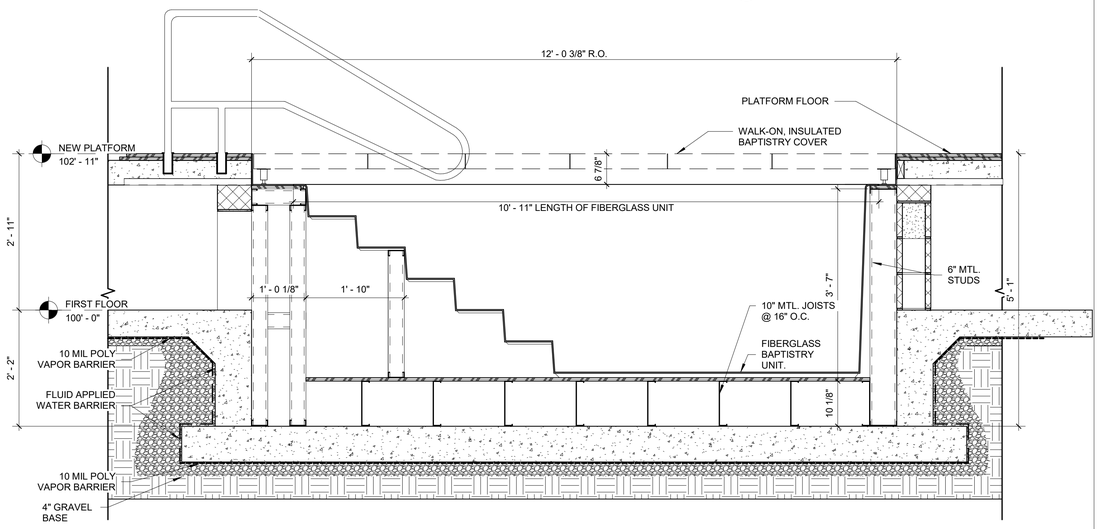
D1 BAPTISTRY PLAN
3/4" = 1'-0"



B1 SECTION BAPTISTRY
3/4" = 1'-0"



A4 SECTION DETAIL AT BAPTISTRY
1 1/2" = 1'-0"



A1 SECTION AT BAPTISTRY
3/4" = 1'-0"

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REVISIONS/ADDENDUMS

BAPTISTRY DETAILS

A703
OF SHEETS

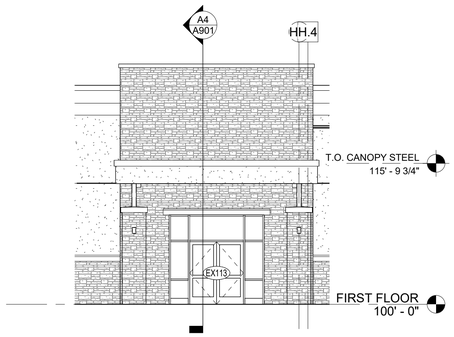
216118

5 4 3 2 1

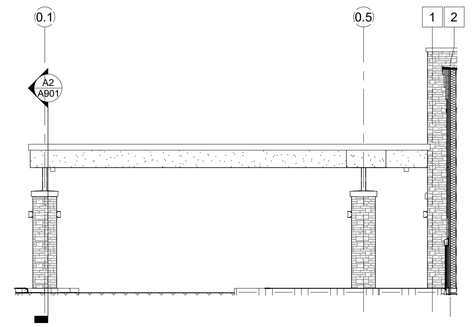
D C B A

SECTION KEYED NOTES

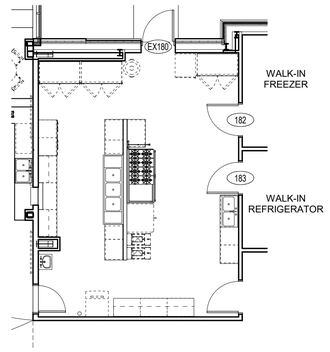
201	FINISH GRADE
204	4" CONCRETE OVER 4" GRAVEL
205	CONCRETE CURB (SEE "C" SHEETS)
206	ASPHALT (SEE "C" SHEETS)
310	CAST STONE CAP
464	MORTAR SCRATCH COAT
465	MORTAR SETTING BED
466	CULTURED STONE VENEER
506	3 5/8" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
507	6" METAL STUDS (SEE "S" SHEETS AND PARTITION PLANS FOR GAUGE AND SPACING)
517	STEEL BEAM (SEE "S" SHEETS)
518	STEEL COLUMN (SEE "S" SHEETS)
521	STEEL ANGLE (SEE "S" SHEETS)
548	METAL LATH
653	1/2" PLYWOOD SHEATHING - PRESSURE TREATED
702	EXTERIOR RIGID INSULATION
703	MOISTURE DRAINABLE E.I.F.S. SYSTEM WITH TROWELL APPLIED WEATHER BARRIER
714	RIGID ROOF INSULATION R33 MIN. STAGGER SEAMS BETWEEN LAYERS
718	SINGLE PLY ROOFING MEMBRANE
733	BACKER ROD AND SEALANT
752	FIBER CEMENT SOFFIT PANEL
769	PREFINISHED COMPRESSION ROOF EDGE
813	LIGHTING FIXTURE (SEE ELECTRICAL)
907	5/8" GLASS MAT GYPSUM SHEATHING



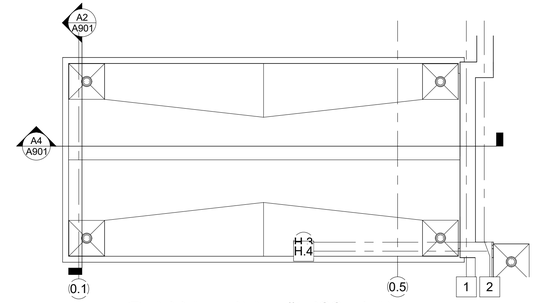
D2 ADD ALTERNATE #1 SOUTH ELEVATION
1/8" = 1'-0"



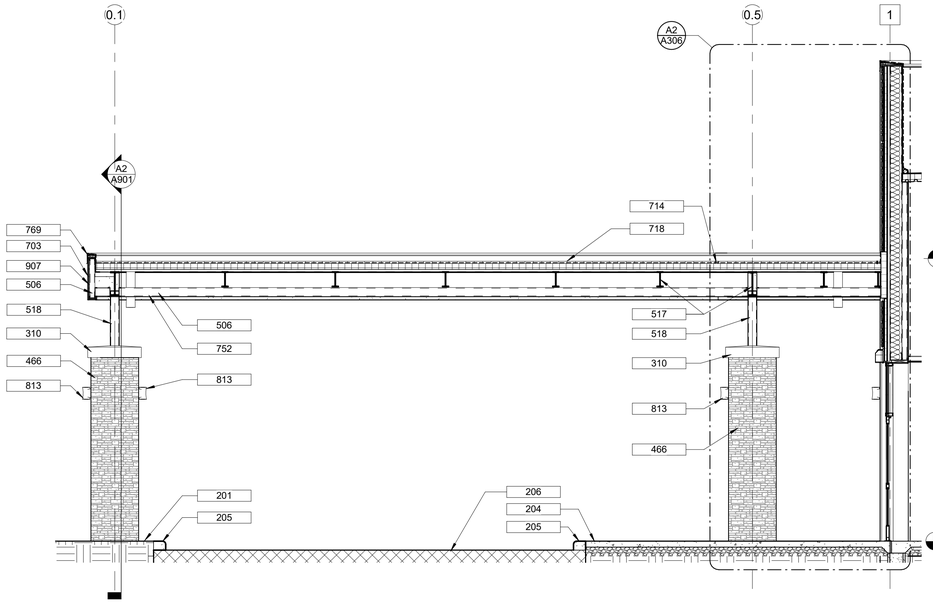
D1 ADD ALTERNATE #1 EAST ELEVATION
1/8" = 1'-0"



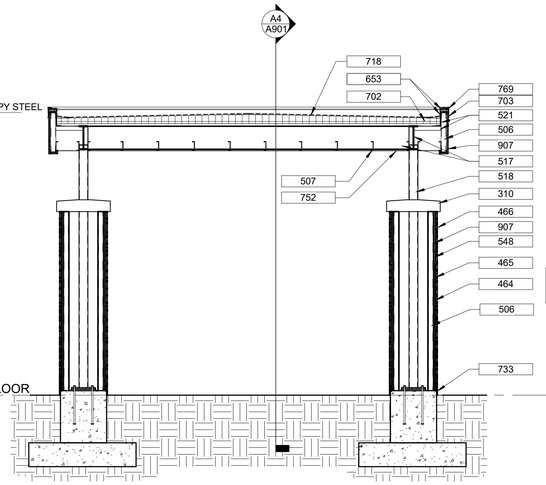
B3 ADD ALTERNATE #2 PLAN KITCHEN
1/8" = 1'-0"



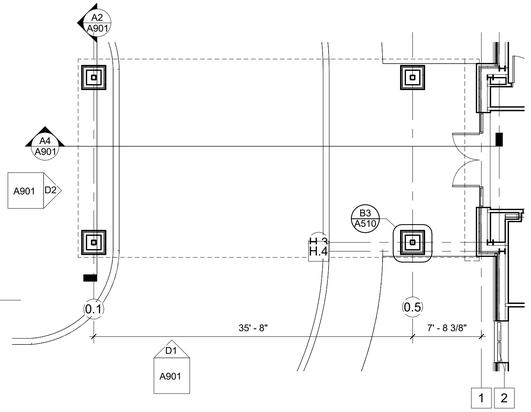
B1 ADD ALTERNATE #1 ROOF PLAN
1/8" = 1'-0"



A4 ADD ALTERNATE #1 CANOPY SECTION
1/4" = 1'-0"



A2 ADD ALTERNATE #1 CANOPY CROSS SECTION
1/4" = 1'-0"



A1 ADD ALTERNATE #1 PLAN
1/8" = 1'-0"

The McKnight Group
Leaders in Innovative Church Design and Building

McKnight & Hosterman Architects, Inc.
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Phone: (614) 875-1655
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www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

ADD ALTERNATES

A901
OF SHEETS

216118

5 4 3 2 1

D C B A

DIVISION 01 - GENERAL REQUIREMENTS

1. PROJECT SPECIFICATIONS HAVE BEEN INCORPORATED INTO THE DRAWINGS.

2. THE DRAWINGS HAVE BEEN ARRANGED TO SHOW THE EXTENT OF WORK INVOLVED AND ARE NOT INTENDED TO DEFINE ANY COMPLETE SUB-CONTRACT. EACH CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, SUPERVISION, MATERIALS, APPLIANCE, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE ANY WORK REQUIRED TO COMPLETE THE PORTION OF SAID SCOPE IN A WORKMANLIKE MANNER.

3. BEFORE SUBMITTING A PROPOSAL, EACH CONTRACTOR/SUPPLIER SHALL CAREFULLY EXAMINE THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS, VISIT THE SITE, FULLY INFORM HIMSELF PRIOR TO BIDDING AS TO EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND SHALL INCLUDE IN HIS PROPOSAL A SUM TO COVER THE COST OF ITEMS AND EQUIPMENT NECESSARY TO PERFORM THE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS. NO ALLOWANCE WILL BE MADE TO A CONTRACTOR/SUPPLIER DUE TO A LACK OF SUCH EXAMINATION OR KNOWLEDGE. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE BIDDER HAS MADE SUCH EXAMINATION.

4. CONTRACTORS/SUPPLIERS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR, WHICH THEY MAY DISCOVER UPON EXAMINATION OF THE BIDDING DOCUMENTS OR OF SITE AND LOCAL CONDITIONS.

5. THE GENERAL CONTRACTOR SHALL PROVIDE OVERALL SUPERVISION AND COORDINATION AMONG CONTRACTORS AND PROVIDE GENERAL CONDITIONS AS REQUIRED.

6. THE GENERAL CONTRACTOR SHALL OBTAIN AND INITIALLY PAY FOR ALL REQUIRED "BUILDING AND MAINLINE UTILITY SERVICE FEES, PERMITS AND ASSESSMENTS." AFTER ALL FEES, PERMITS AND ASSESSMENTS ARE PAID, THE CONTRACTOR WILL PRESENT THE PAID RECEIPTS TO THE OWNER FOR FULL REIMBURSEMENT. WHEN FEES EXCEED $5,000.00 THE OWNER IS REQUIRED TO ADVANCE THE FEE AMOUNT TO THE CONTRACTOR BEFORE PAYMENT IS MADE TO THE RESPECTIVE BUILDING AUTHORITIES. EXAMPLES OF VARIOUS FEES AND ASSESSMENTS ARE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

A. SIDEWALK PERMIT
B. CURB CUT PERMIT
C. WATER TAP
D. WATER FRONT FOOTAGE CHARGE
E. WATER SYSTEM CAPACITY CHARGE
F. WATER METER
G. STORM SEWER
H. STORM SEWER INSPECTION (STANDBY)
I. SANITARY SEWER TAP
J. SANITARY SEWER SYSTEM CAPACITY CHARGE
K. SANITARY SEWER INSPECTION (STANDBY)
L. EXCESS FACILITIES COSTS FOR GAS, ELECTRIC AND TELEPHONE
M. AID TO CONSTRUCTION (ELECTRICAL)

7. PERMITS AND INSPECTIONS FEES FOR PLUMBING, HEATING, VENTILATING, AIR CONDITIONING, ELECTRICAL, FIRE ALARM SYSTEMS, FIRE SUPPRESSION SYSTEMS, STEAM AND RANGE HOOD, ETC. TO BE APPLIED AND PAID FOR BY THEIR RESPECTIVE SUB-CONTRACTORS.

8. ALL WORK PROPOSALS SHALL INCLUDE INSTALLATION ACCORDING TO GOVERNING CODES AND TRADE STANDARDS.

9. COPIES OF PERMITS, APPROVED SHOP DRAWINGS, AND A COMPLETE SET OF CONTRACT DRAWINGS MARKED UP TO DATE WITH ALL REVISIONS SHALL BE KEPT ON SITE.

10. EACH CONTRACTOR IS RESPONSIBLE FOR KEEPING A SET OF RECORD DRAWINGS COVERING THE SCOPE OF HIS WORK. THESE RECORD DRAWINGS ARE TO BE KEPT CURRENT AS JOB PROGRESSES AND MUST BE TURNED OVER TO THE GENERAL CONTRACTOR AT THE COMPLETION OF THE PROJECT BEFORE FINAL RETAINAGE WILL BE PAID.

11. EACH CONTRACTOR SHALL BE FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT AND SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THAT OF OTHER CONTRACTORS

12. EACH CONTRACTOR REQUIRING INSPECTIONS SHALL ARRANGE AND SECURE ALL NECESSARY INSPECTIONS.

13. ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE 2018 INTERNATIONAL BUILDING CODE, THE NFPA CODE, THE NATIONAL BUILDING AND ELECTRICAL CODE, O.S.H.A., AND ALL OTHER NATIONAL, STATE AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION OVER THIS PROJECT.

14. FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE APPROVAL FOR SUBSTITUTION HAS BEEN GRANTED BY THE ARCHITECT AND/OR OWNER.

15. ALL CONTRACTORS SHALL PROVIDE ANY TEMPORARY SIGNAGE AND BARRICADES AS NECESSARY TO PROTECT THE BUILDING INHABITANTS AND PUBLIC FROM THE WORK AND STAGING AREAS.

16. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS THAT MAY BE AFFECTED BY THE WORK. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO DIMENSIONS AS REQUIRED TO PERFORM THE WORK.

17. EACH CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN ALL TEMPORARY BRACING REQUIRED FOR AVOIDING COLLAPSE DURING CONSTRUCTION FOR THEIR PARTICULAR PHASE OF WORK.

18. ALL WORK SHALL BE DONE BY SKILLED CRAFTSMEN AND SHALL BE OF HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF EACH RESPECTIVE TRADE.

19. CONTRACTORS SHALL FOLLOW MATERIAL MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND INSTALLATION OF THEIR PRODUCTS. ANY DEVIATION FROM MANUFACTURER'S DIRECTIONS SHALL BE MADE AT THE CONTRACTOR'S RISK.

20. ALL PATCH WORK SHALL BE CONSISTENT WITH ADJOINING SURFACES.

21. ALL ROUGH OPENINGS AND EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO CONSTRUCTION OR INSTALLATION AND COORDINATED WITH APPROPRIATE TRADES AND CONTRACTORS.

22. THE CARPENTRY CONTRACTOR SHALL FURNISH AND INSTALL ALL MISCELLANEOUS SUPPORT FORMS, BLOCKING, HANGERS, FITTINGS, ETC., NOT NECESSARILY SHOWN BUT REQUIRED TO FULLY COMPLETE THE WORK.

23. OWNER REQUIRES ANY CONTRACTOR OR SUPPLIER PERFORMING ANY WORK OR SUPPLYING ANY MATERIALS TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF PROJECT COMPLETION THEREOF AND REQUIRES SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE TO THE OWNER.

24. ALL CONTRACTORS WORKING ON THIS PROJECT MUST MEET OR EXCEED ALL OSHA STANDARDS AND REQUIREMENTS. EACH CONTRACTOR MUST MEET THESE MINIMUM REQUIREMENTS THROUGHOUT THE DURATION OF THE PROJECT, BUT IS NOT LIMITED TO, A COMPLETE, ACTIVE, ONGOING SAFETY PROGRAM, HAZARDOUS COMMUNICATIONS PROGRAM AND EVIDENCE OF REQUIRED EMPLOYEE TASK TRAINING.

25. IF ANY CONTRACTOR ENCOUNTERS HAZARDOUS MATERIALS OR CONDITIONS WHICH MAY BE DANGEROUS, HE IS TO IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY THE GENERAL CONTRACTOR WHO WILL, IN TURN, NOTIFY THE OWNER OF THE FINDING. THE OWNER IS RESPONSIBLE FOR REMOVAL OR NEUTRALIZATION OF ANY EXISTING HAZARDOUS MATERIALS OR CONDITIONS.

26. PAYMENTS TO CONTRACTOR, GUARANTEE OF WORK, DATE OF COMPLETION AND ALL OTHER CONTRACTUAL MATTERS SHALL BE AS AGREED TO BETWEEN OWNER AND CONTRACTOR.

27. ALL RISK INSURANCE SHALL BE PROVIDED BY OWNER WITH A COPY TO THE GENERAL CONTRACTOR FOR POSTING AT THE JOB SITE.

28. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN, DURING THE TERM OF THE CONTRACT, INSURANCE FOR NOT LESS THAN THE LIMITS OF LIABILITY AGREED TO BY THE OWNER OR REQUIRED BY LAW FOR:

A. WORKMAN'S COMPENSATION
B. COMPREHENSIVE LIABILITY
C. CONTRACTUAL LIABILITY
D. COMPREHENSIVE AUTOMOTIVE LIABILITY
E. EXCESS LIABILITY UMBRELLA

CERTIFICATES OF INSURANCE LISTED ABOVE SHALL BE FILED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.

29. APPROVED SUBSTITUTIONS REQUIRE SUBMITTALS OF PRODUCT LITERATURE FOR FORMAL APPROVAL OF THE ARCHITECT AND/OR ENGINEER. WHEN SUBSTITUTIONS FOR FINISH MATERIALS ARE REQUESTED THE SUPPLIER MUST SUPPLY A MINIMUM OF THREE SAMPLES OF EACH MATERIAL IF THE ARCHITECT / ENGINEER APPROVES THE SUBSTITUTION A LETTER OF ACCCPTANCE WILL BE ISSUED BY THE ARCHITECT. NO SUBSTITUTION OF MATERIALS IS PERMITTED UNLESS THE ARCHITECT ISSUES A LETTER OF ACCEPTANCE.

DIVISION 03 - CONCRETE

03 3000 - CAST-IN-PLACE CONCRETE

PART 1 GENERAL

I. SUMMARY

1. BASIC SPECIFICATION: PERFORM WORK OF THIS SECTION ACCORDING TO ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," EXCEPT AS SPECIFICALLY MODIFIED HEREIN.

2. SECTION INCLUDES: ALL CAST-IN-PLACE CONCRETE SHOWN ON THE DRAWINGS AND REQUIRED BY THESE SPECIFICATIONS. ALLOW FOR THE INSTALLATION OF CAST-IN-PLACE ITEMS FURNISHED UNDER OTHER SECTIONS. INSTALL ANCHOR BOLTS FOR STRUCTURAL STEEL. PROVIDE AND INSTALL GROUT UNDER STEEL COLUMN BASE PLATES.

3. PROVIDE CONCRETE PADS, PIERS, CURBS, AND BASES REQUIRED FOR EQUIPMENT OF ALL TRADES. COORDINATE DIMENSIONS AND DETAILS WITH REQUIREMENTS OF EQUIPMENT BEING SUPPLIED, PRIOR TO PLACING CONCRETE.

4. COORDINATE THE WORK OF OTHER TRADES WHO WILL PROVIDE AND INSTALL ITEMS (SLEEVES, PIPING, CONDUIT, INSERTS, ETC.) TO BE CAST IN THE CONCRETE. PLACE NO CONCRETE UNTIL ALL SUCH ITEMS ARE IN PLACE.

5. SPECIAL INSPECTION AND TESTING SERVICES REQUIRED BY THIS SECTION ARE TO BE PERFORMED BY AN AGENCY RETAINED BY THE OWNER. THIS INCLUDES NOT ONLY THE SERVICES REQUIRED TO ESTABLISH MIX DESIGNS, BUT ALSO INCLUDES ALL FIELD SAMPLING AND TESTING REQUIRED BY THE FIELD QUALITY CONTROL ARTICLE OF THIS SECTION.

6. RELATED SECTIONS: CAREFULLY EXAMINE ALL OTHER SECTIONS AND ALL DRAWINGS FOR RELATED WORK, WHICH INCLUDES BUT IS NOT LIMITED TO:

A. UNIT MASONRY	SECTION 04 2000
B. STRUCTURAL STEEL:	SECTION 05 1200
C. STEEL JOISTS:	SECTION 05 2000

II. QUALITY ASSURANCE

1. REFERENCE STANDARDS:
A. ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
B. ACI 347R-14, GUIDE TO FORMWORK FOR CONCRETE.
C. ACI 302.1R-15, GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION.
D. ACI 305R-20 – GUIDE TO HOT WEATHER CONCRETING
E. ACI 306R-16 – GUIDE TO COLD WEATHER CONCRETING
F. CRSI "PLACING REINFORCING BARS," 10TH EDITION, 2019.
G. WWR-500 "MANUAL OF STANDARD PRACTICE" DEC 2016, 9TH EDITION.

III. SUBMITTALS

A. ALL REQUIRED FIELD TESTING AND SAMPLING IS TO BE PERFORMED BY PERSONNEL EMPLOYED BY THE PROPOSED SPECIAL INSPECTION AGENCY.

B. SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCRETE REQUIRED. SUBMITTALS TO COMPLY WITH APPROPRIATE METHODS LISTED IN ACI 301. INDICATE WHETHER MIXES HAVE BEEN DESIGNED FOR PUMPING.

C. SUBMIT SHOP DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING, AND STYLE AND SPECIFICATION OF ALL WELDED WIRE FABRIC. ONLY PRINTS WITH THE APPROVAL STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.

D. SUBMIT, ON REQUEST ONLY, PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.

E. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTION.

F. SUBMIT FOR APPROVAL PROPOSED SPACING AND LOCATION OF CONSTRUCTION AND/OR CONTROL JOINTS IN CONCRETE SLABS ON GRADE.

IV. FIELD REFERENCE MANUALS

A. PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15, AND ONE COPY OF CRSI'S "PLACING REINFORCING BARS," IN THE FIELD OFFICE AT ALL TIMES.

PART 2 PRODUCTS

I. MATERIALS

A. CEMENTITIOUS MATERIALS:
1. PORTLAND CEMENT: ASTM C150, TYPE I, II, OR III.
2. FLY ASH: ASTM C618, CLASS C OR F.
3. SLAG CEMENT: ASTM C989, GRADE 100 OR 120.
4. BLENDED HYDRAULIC CEMENT: ASTM C595

B. WATER: POTABLE, CONFORMING TO C94.

C. AGGREGATES: ASTM C33. USE SIZE NO. 57 COARSE AGGREGATE, UNLESS OTHERWISE INDICATED. PROVIDE AGGREGATES FROM A SINGLE SOURCE.

D. CHEMICAL OR OTHER ADMIXTURES (WHERE REQUIRED OR PERMITTED): CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES THAT DO NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.

1. WATER-REDUCING ADMIXTURE: ASTM C494, TYPE A.
2. RETARDING ADMIXTURE: ASTM C494, TYPE B.
3. WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C494, TYPE D.
4. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C494, TYPE F.
5. HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C494, TYPE G.
6. PLASTICIZING AND RETARDING ADMIXTURE: ASTM C1017, TYPE II.
7. AIR-ENTRAINING ADMIXTURE: ASTM C260.
8. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116 AND ASTM C1018

E. REINFORCING STEEL:
1. DEFORMED BARS: ASTM A615 OR A706. MINIMUM YIELD STRENGTH TO BE 60 KSI. BARS TO BE WELDED ARE TO BE ASTM A706.
2. EPOXY COATING: ASTM A775 OR ASTM A934
3. WELDED WIRE FABRIC: ASTM A185. PROVIDE IN SHEET FORM (NOT ROLLS).

F. PREFORMED EXPANSION JOINT OR ISOLATION JOINT FILLER: ASTM D1751 OR ASTM D1752.

G. PENETRATING LIQUID FLOOR TREATMENT: CLEAR, CHEMICALLY REACTIVE, WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONATE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS; THAT PENETRATES, HARDENS, AND DENSIFIES CONCRETE SURFACES.

H. CURING COMPOUND: FOLLOW REQUIREMENTS OF ACI 308R AND COMPLY WITH ASTM C309, TYPE 1, CLASS B (CLEAR). APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. MUST BE COMPATIBLE WITH ADHESIVE SPECIFIED FOR FLOOR FINISHES OR BE REMOVED BY THE CONTRACTOR PRIOR TO APPLYING FLOOR FINISH.

I. GROUT FOR MASONRY CORE FILL: ASTM C476, COARSE TYPE OR FINE TYPE, PLACED ACI 530.1 (TMS 402/602).

J. NON-SHRINK GROUT UNDER BEARING ELEMENTS: ASTM C1107, GRADE A, B, OR C. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 7,000 PSI; MINIMUM COMPRESSIVE STRENGTH AT 48 HOURS = 2,000 PSI. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
1. SIKAGROUT 212 BY SIKA.

K. EPOXY BONDING AGENT: ASTM C881, NO THINNER THAN 75 SQUARE FEET PER GALLON. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
1. SIKADUR 32 HI-MOD BY SIKA.

L. CURING AND SEALING COMPOUND: ASTM C1315, TYPE 1, CLASS A, A CLEAR MEMBRANE-FORMING COMPOUND WHICH WILL NOT YELLOW. MUST BE FORMULATED FOR THE INTENDED APPLICATION, EITHER INTERIOR OR EXTERIOR AND APPLIED PER THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

M. KEYED FLOOR SLAB JOINTS: MILL GALVANIZED STEEL, 20 GAGE MIMIMUM, WITH MINIMUM KEY DIMENSIONS OF 3/4 INCH DEEP BY 1-1/2 INCHES AT ITS WIDEST POINT.
CTS, INC.

N. JOINT SEALANT: USE 1-COMPONENT POLYURETHANE, CONFORMING TO ASTM C920, TYPE S, GRADE NS, CLASS 25. USE WITH BACKER ROD AS REQUIRED.

P. UNDERSLAB VAPOR BARRIER:
1. 10 MIL POLYETHYLENE SHEETS. OVERLAP AND TAPE JOINTS. INSTALL PER MANUFACTURERS RECOMMENDATION
2. RETARDING SHEET VAPOR RETARDER: ASTM E1745, CLASS A; NOT LESS THAN 10 MILS (0.25 MM) THICK. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE.

Q. DOVETAIL SLOTS: GALVANIZED STEEL, 24 GAGE MINIMUM.

II. MIXES

A. THE FOLLOWING CLASSES OF CONCRETE ARE REQUIRED (F'c AT 28 DAYS):

1. CLASS I – FOOTINGS, INTERIOR PIERS, BAPTISTRY FOUNDATION WALLS. MINIMUM F'c = 3000 PSI.

2. CLASS II - INTERIOR SLABS ON GRADE, CONCRETE FILL OVER STEEL FORM-DECK, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'c=3500 PSI; WATER-REDUCER REQUIRED. MINIMUM CEMENTITIOUS CONTENT 520 LBS. PER CUBIC YARD. FOR SLABS ON GRADE, PROVIDE POLYPROPYLENE FIBER REINFORCING AT A MINIMUM DOSAGE RATE OF 3.0 LBS PER CUBIC YARD OR AS DIRECTED BY THE MANUFACTURER.

3. CLASS III - EXTERIOR SLABS ON GRADE, EXTERIOR PIERS, PIERS CAST INTEGRAL WITH EXTERIOR FOUNDATION WALLS, EXTERIOR WALLS, AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'c= 4500 PSI; AIR-ENTRAINING ADMIXTURE AND WATER-REDUCER REQUIRED. MINIMUM CEMENT CONTENT 564 LBS. PER CUBIC YARD. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO 0.45, AIR CONTENT 6 + 1, -1.5%.

4. CLASS IV – LOW DENSITY, LEAN CONCRETE FILL AS REQUIRED UNDER FOOTINGS. MINIMUM F'c = 500 PSI

B. PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF THE LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, IN ACCORDANCE WITH ACI 301. USE A QUALIFIED TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIXTURE DESIGNS, BASED ON LABORATORY TRIAL MIXTURES.

C. CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE AS FOLLOWS:
1. PERCENTAGES IN FIVE SUBPARAGRAPHS BELOW REPEAT ACI 301 (ACI 301M), TABLE 4.2.1.1(B) LIMITS FOR CONCRETE EXPOSURE CLASS F3. REVISE TO SUIT PROJECT.
1. FLY ASH OR OTHER POZZOLANS: 25 PERCENT BY MASS.
2. SLAG CEMENT: 50 PERCENT BY MASS
3. TOTAL OF FLY ASH OR OTHER POZZOLANS, SLAG CEMENT: 50 PERCENT BY MASS, WITH FLY ASH OR POZZOLANS NOT EXCEEDING 25 PERCENT BY MASS.
4. TOTAL OF FLY ASH OR OTHER POZZOLANS: 35 PERCENT BY MASS WITH FLY ASH OR POZZOLANS NOT EXCEEDING 25 PERCENT BY MASS.

D. CONCRETE USED FOR FLOORS (CLASS II) SHALL HAVE A MINIMUM THREE-DAY COMPRESSIVE STRENGTH OF 1,800 PSI.

E. ALL CONCRETE IS TO BE READY-MIXED PER ASTM C94. ALL ADMIXTURES ARE TO BE ADDED AT THE BATCH PLANT, EXCEPT THAT SUPERPLASTICIZER, WHERE USED, IS TO BE ADDED AT THE SITE. SUPERPLASTICIZER RETARDER CAN BE ADDED AT THE BATCH PLANT.

F. SLUMP:
1. DESIGN CONCRETE MIXES FOR A MAXIMUM SLUMP OF 4 INCHES, UNLESS A SUPERPLASTICIZER IS TO BE USED.
2. IF A SUPERPLASTICIZER IS TO BE USED, DESIGN MIXES FOR A SLUMP OF 2 INCHES - 3 INCHES BEFORE ITS ADDITION; MAXIMUM SLUMP PERMITTED AFTER ITS ADDITION IS 8 INCHES.

G. SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.

PART 3 EXECUTION

I. ERECTION

A. THIS STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY.

II. SURFACE CONDITIONS

A. VERIFY THAT EXCAVATIONS ARE FREE OF WATER AND ICE, ARE OF THE REQUIRED DIMENSIONS, AND HAVE BEEN APPROVED BY THE TESTING AGENCY RESPONSIBLE FOR SOILS INSPECTION, PRIOR TO PLACING CONCRETE.

B. DETERMINE FIELD CONDITIONS BY ACTUAL MEASUREMENT.

C. PRIOR TO APPLICATION OR SEALER OR SURFACE TREATMENT, REMOVE ANY SYNTHETIC FIBER REINFORCEMENT PROJECTING ABOVE THE TOP SURFACE OF SLABS WHICH REMAIN EXPOSED.

III. FORMWORK AND REINFORCING

A. FOOTINGS MAY BE CAST AGAINST EARTH CUTS WHEN SOIL CONDITIONS PERMIT.

B. REMOVAL OF FORMS AND SHORING:
1. REMOVE NO FORMS WITHIN THE FIRST 24 HOURS AFTER PLACEMENT.
2. WHEN STRUCTURE IS TO BE RESHORED, FORMS MAY BE REMOVED WHEN THE CONCRETE ATTAINS 75% OF ITS DESIGN STRENGTH.
3. SHORING IS TO REMAIN IN PLACE UNTIL CONCRETE REACHES ITS DESIGN STRENGTH.
4. REMOVE ALL SHORING PRIOR TO CONSTRUCTING MASONRY WALLS SUPPORTED BY THE STRUCTURE.

IV. EMBEDDED ITEMS

A. PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE:
1. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
2. INSTALL ANCHOR RODS, ACCURATELY LOCATED, TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN SECTION 7.5 OF ANSI/AISC 303.

B. INSTALL EMBEDDED CONDUIT, PIPES AND SLEEVES SUBJECT TO THE FOLLOWING LIMITATIONS:
1. DO NOT EMBED ALUMINUM WITHOUT PRIOR APPROVAL OF COATING MATERIAL.
2. DO NOT DISPLACE REINFORCING STEEL.
3. IN SLABS AND WALLS, LIMIT OUTSIDE DIMENSION OF CONDUITS AND PIPES TO 1/3 MEMBER THICKNESS.
4. MAINTAIN A CENTER-TO-CENTER SPACING OF AT LEAST THREE DIAMETERS OF CONDUIT OR PIPE.

V. DELIVERY AND PLACEMENT

A. PREPARATION BEFORE PLACEMENT:
1. VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, EMBEDDED ITEMS, AND VAPOR RETARDER IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED.
2. IMMEDIATELY PRIOR TO CONCRETE PLACEMENT, INSPECT VAPOR RETARDER FOR DAMAGE AND DEFICIENT INSTALLATION, AND REPAIR DEFECTIVE AREAS.
3. REMOVE ALL DEBRIS FROM FORMS AND DECK. CLEAN STEEL DECK OF GREASE, OIL, AND OTHER SUBSTANCES WHICH WOULD REDUCE BOND TO CONCRETE.
4. DO NOT USE ADDITIVES OR SALTS TO REMOVE ICE.
5. IN COLD WEATHER, MAINTAIN TEMPERATURE OF FORMS AND REINFORCING SUCH THAT CONCRETE TEMPERATURE CAN BE KEPT WITHIN THE SPECIFIED RANGE.

B. NOTIFY THE ARCHITECT AND SPECIAL INSPECTION AND TESTING AGENCY 24 HOURS PRIOR TO PLACING CONCRETE.

C. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED BY ARCHITECT IN WRITING, BUT NOT TO EXCEED THE AMOUNT INDICATED ON THE CONCRETE DELIVERY TICKET. DO NOT ADD WATER TO CONCRETE AFTER ADDING HIGH-RANGE WATER-REDUCING ADMIXTURES TO MIXTURE.

D. DELIVERY:
1. CONFORM TO ASTM C94.
2. ASTM C94 REQUIRES DISCHARGE WITHIN 1-1/2 HOURS OR 300 REVOLUTIONS, WHICHEVER OCCURS FIRST, AFTER THE INTRODUCTION OF WATER TO CEMENT AND AGGREGATES, OR THE INTRODUCTION OF CEMENT TO THE AGGREGATES. THE ARCHITECT MAY REQUIRE AN EARLIER DISCHARGE DURING HOT WEATHER.
3. PLACE CONCRETE AT THE MAXIMUM SLUMP FOR WHICH THE MIX WAS DESIGNED WITH A TOLERANCE OF UP TO 1 INCH ABOVE THE MAXIMUM FOR ONE BATCH IN ANY FIVE CONSECUTIVE BATCHES TESTED.

E. PLACEMENT:
1. PLACE CONCRETE IN ACCORDANCE WITH ACI 304R
2. PLACE CONCRETE FOR FLOOR SLABS IN ACCORDANCE WITH ACI 302.1R.
3. IN HOT OR COLD WEATHER, PLACE CONCRETE IN ACCORDANCE WITH ACI 305R OR ACI 306R RESPECTIVELY.
4. UNLESS REQUIRED OTHERWISE PER ACI GUIDELINES, PLACE WITHIN 6 FEET OF FINAL POSITION. SPREADING WITH VIBRATORS WITHIN FORMS IS PROHIBITED.
5. IN WALLS AND PIERS, DEPOSIT CONCRETE IN UNIFORM HORIZONTAL LAYERS WITH A MAXIMUM DEPTH OF 5 FEET PER HOUR.
6. MAXIMUM FREE FALL WITHOUT CHUTES OR ELEPHANT TRUNKS TO BE 5 FEET.
7. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE FOR CONSTRUCTION JOINTS AS PROVIDED WITHIN THIS SPECIFCATION.
8. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.
9. MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.

VI. JOINTING

A. INTERIOR SLABS ON GRADE:
1. LOCATE CONTROL AND CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION ON DRAWINGS, LOCATE AT OPENINGS, WALLS, COLUMNS, GRID LINES, INSIDE CORNERS AND AT 15 FEET ON CENTER GENERALLY. SCHEDULE SLAB PLACEMENTS AND SAW-CUTTING OPERATIONS SUCH THAT SAWING IS COMPLETED PRIOR TO ONSET OF SHRINKAGE CRACKING. COMPLETE SAW CUTTING WITHIN 12 HOURS AFTER PLACEMENT.
2. SAW-CUT JOINTS SHALL BE AT LEAST 1/8 INCH WIDE AND 1/4 DEPTH OF SLAB THICKNESS.
3. PROVIDE ISOLATION JOINTS AT COLUMNS AND PIERS (1/2 INCH THICK) AND AT WALLS (1/4 INCH THICK). WHERE ISOLATION JOINT WILL BE EXPOSED TO VIEW, SET TOP OF JOINT FILLER BELOW TOP OF SLAB A DISTANCE EQUAL TO THE FILLER THICKNESS, TO RECEIVE SEALANT. WHERE NOT EXPOSED TO VIEW, SET TOP OF FILLER FLUSH WITH TOP OF SLAB.
4. WHERE JOINTS ARE EXPOSED TO VIEW IN THE FINISHED BUILDING, PROVIDE JOINT SEALANT.
5. EPOXY COATED REBAR DOWELS: PROVIDE DOWELS AT EXTERIOR DOOR THRESHOLDS WHERE INDICATED ON THE DRAWINGS.

B. EXTERIOR SLABS ON GRADE: LOCATE JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION ON THE DRAWINGS, PROVIDE THE FOLLOWING:
1. EXPANSION JOINTS: FULL DEPTH, WITH 1/2 INCH JOINT FILLER, WHERE SLABS ABUT VERTICAL SURFACES, AT INTERSECTIONS OF SIDEWALKS, AT ABRUPT CHANGES IN WIDTH, AND AT A SPACING NOT EXCEEDING 30 FEET.
2. CONTROL JOINTS: TOOLED, 7/8 INCH DEEP, 4'-0" TO 6'-0" ON CENTER BETWEEN EXPANSION JOINTS.

VII. FINISHES

A. COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.
B. REPAIR SURFACE DEFLECTS, INLDUDING TIE HOLES, IMMEDIATELY AFTER REMOVING FORMWORK.
C. SCHEDULE OF FINISHES ON FLATWORK IS AS FOLLOWS:
1. TROWELED FINISH: TYPICAL INTERIOR FLOOR AREAS TO RECEIVE ADHESIVE-APPLIED FINISH, OR CARPET, OR TO REMAIN EXPOSED.
2. FLOATED FINISH: INTERIOR FLOOR AREAS TO RECEIVE FINISH IN CEMENTITIOUS SETTING BED.
3. OTHER SURFACES TO BE LEFT EXPOSED: TROWELED FINISH, MINIMIZING BURNISH MARKS AND OTHER APPEARANCE DEFECTS.
4. BROOM FINISH: EXTERIOR SLABS, STEPS, RAMPS, ETC.
5. AS PER INDICATED ON THE DRAWINGS (IF REQUIRED): NON-SLIP OR APPLICATION OF HARDENER PER THE MANUFACTURER'S INSTRUCTIONS.
C. IN AREAS WITH FLOOR DRAINS, MAINTAIN FLOOR ELEVATION

03 3000 - CAST-IN-PLACE CONCRETE (CONTINUED)

XI. FIELD QUALITY CONTROL

A. TEST REPORTS SHALL INCLUDE REPORTING REQUIREMENTS OF ASTM C31, ASTM C39, AND ACI 301. MAINTAIN RECORDS OF ALL TESTS, INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

B. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT.

C. FOR EACH CONCRETE CLASS, PREPARE A COMPOSITE SAMPLE AND CURED TEST CYLINDERS AND PERFORM A STRENGTH TEST FOR EACH 100 YARDS, OR FRACTION THEREOF, PLACED IN ANY ONE DAY. COMPOSITE SAMPLES OF FRESH CONCRETE SHALL BE OBTAINED IN ACCORDANCE WITH ASTM C172.

D. FOR EACH REQUIRED CONCRETE SAMPLE, THE FOLLOWING PROPERTIES SHALL BE DETERMINED:
1. SLUMP: ASTM C143
2. SLUMP FLOW: ASTM C1611
3. AIR CONTENT: ASTM C231
4. TEMPERATURE: ASTM C1064. DETERMINE CONCRETE TEMPERATURE FOR EACH STRENGTH TEST WHEN AIR TEMPERATURE IS LESS THAN 40 DEGREES F OR WILL BE WITHIN 24 HOURS.
5. UNIT WEIGHT: ASTM C567
6. COMPRESION TEST SPECIMEN: ASTM C31. CAST AND FIELD CURE AT LEAST TWO SETS OF THREE CYLINDER SPECIMENS FOR EACH REQUIRED SAMPLE AND STRENGTH TEST. ALSO CAST AND LABORATORY CURE THE SAME.
7. COMPRESSIVE STRENGTH TEST: ASTM C39. TEST ONE SET OF TWO SPECIMENS AT SEVEN DAYS AND ONE SET OF TWO SPECIMENTS AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM THE SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.

E. DO NOT PLACE CONCRETE WHEN SLUMP, AIR CONTENT OR TEMPERATURE VARY FROM ALLOWABLE.

F. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE.

G. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH, AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI WHEN THE SPECIFIED COMPRESSIVE STRENGTH IS 5,000 PSI OR LESS.

H. ADDITIONAL TESTS:
1. TESTING AND INSPECTION AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ARCHITECT OR ENGINEER
2. TESTING AND INSPECTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C42/C42M OR BY OTHER METHODS AS DIRECTED BY ARCHITECT OR ENGINEER.
3. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BY ARCHITECT OR ENGINEER BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF CONCRETE.
4. ACCEPTANCE CRITERIA FOR CONCRETE STRENGTH SHALL BE IN ACCORDANCE WITH ACI 301 SECTION 1.6.6.

I. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.

J. CORRECT DEFICIENCIES IN THE WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

K. TEST INTERIOR FLOOR SLAB FINISHED SURFACES FOR FLATNESS AND LEVELNESS IN ACCORDANCE WITH ASTM E1155.
1. INDIVIDUAL FLOOR SECTIONS FOR FLOOR TOLERANCE TESTING PURPOSES SHALL BE BOUND BY THE FOLLOWING THAT PROVIDE THE SMALLEST SECTIONS: CONSTRUCTION JOINTS, CONTROL JOINTS, COLUMN LINES AND HALF-COLUMN LINES.
2. FLOOR TOLERANCE TESTS SHALL BE PERFORMED (AND ALL DEFECTIVE AREAS IDENTIFIED) WITHIN 24 HOURS AFTER SLAB PLACEMENT AND REPORTED TO ALL PARTIES AS SOON AS POSSIBLE, BUT NOT LATER THAN 72 HOURS AFTER INSTALLATION. SHORED ELEVATED SLABS SHALL BE TESTED PRIOR TO REMOVAL OF SHORING.

DIVISION 04 - MASONRY

04 20 00 - UNIT MASONRY

1. REFER TO THE STRUCURAL GENERAL NOTES ON SHEET S001 OF THE STRUCTURAL DRAWINGS FOR SPECIFICATIONS RELATED TO STRUCTURAL LOAD BEARING CONCRETE MASONRY.

2. PLAIN CONCRETE BLOCK UNITS SHALL COMPLY WITH ASTM C-90 FOR HOLLOW LOAD BEARING UNITS, ASTM C-145 FOR SOLID LOAD BEARING UNITS AND ASTM C-55 FOR CONCRETE BRICK. ALL UNITS SHALL BE GRADE N-1.

3. SPLIT FACE CONCRETE BLOCK AND STANDARD CONCRETE BLOCK UNITS EXPOSED TO THE ELEMENTS IN EXTERIOR WALLS SHALL BE MANUFACTURED WITH "DRY BLOCK II" INTEGRAL WATER REPELLANT ADMIXTURE FURNISHED BY FORRER INDUSTRIES / DIVISION OF W.R.GRACE & COMPANY (OR APPROVED SUBSTITUTION) TO ACHIEVE CLASS E WATER PERMEANCE RATING AND AS TESTED IN ACCORDANCE WITH ASTM E-514-74. SPLIT FACE CONCRETE BLOCK UNITS ARE ALSO TO BE MANUFACTURED WITH INTEGRAL PIGMENTED COLOR. COLOR(S) TO BE AS NOTED ON ELEVATIONS BY COLOR RANGE, IE., "A", "B" OR "C" – COLOR RANGE "A" BEING HIGHEST COST AND COLOR RANGE "C" BEING LOWEST COST. SEE SCOPE OF WORK SHEETS FOR COST ALLOWANCES PER COLOR.

4. STANDARD SIZE FACE BRICK SHALL COMPLY WITH ASTM C-216, GRADE SW, TYPE FBS.

5. MORTAR FOR STANDARD CONCRETE BLOCKS AND BRICKS SHALL COMPLY WITH ASTM C-270. MORTAR STRENGTH IS TO BE EQUAL TO OR GREATER THAN THE CONCRETE BLOCK STRENGTH. MORTAR FOR SPLIT FACE CONCRETE BLOCK SHALL HAVE "DRY-BLOCK II" (OR APPROVED SUBSTITUTION) INTEGRAL WATER REPELLENT ADMIXTURE FIELD ADDED TO THE MORTAR MIX.

6. GROUT SHALL COMPLY WITH ASTM C-476.

A. MINIMUM STRENGTH OF GROUT SHALL BE 2,500 PSI.

7. REINFORCEMENT AND ACCESSORIES:

A. BARS SHALL COMPLY WITH ASTM A615, GRADE 60, DEFORMED #3 AND LARGER.

B. ANCHORS, WIRE TIES AND MESH SHALL COMPLY WITH ASTM A82 & ASTM A153-B.

C. HORIZONTAL JOINT REINFORCING: LADDER TYPE, SHALL COMPLY WITH ASTM A82 AND ASTM A153-B.

D. CONTROL JOINTS STRIPS: PRE-MOLDED, COMPRESSIBLE, ELASTIC FILLERS OF FOAM RUBBER, NEOPRENE OR EXTRUDED PLASTIC.

E. PLASTIC WEEP/VENTING: HONEYCOMB DESIGN POLYETHYLENE, 3/8-INCH x 2 ½" x 3 3/8" FOR HEAD JOINTS AT MAX. 24" ON CENTER, BY HOHMANN & BARNARD, INC. MODEL QUADRO-VENT.

F. CAVITY DRAINAGE MATERIAL: PROVIDE FREE-DRAINING MESH BY MORTAR NET OR EQUAL.

G. SLEEVES: GALVANIZED PIPE OR COPPER PIPE AS REQUIRED.

8. WALL FLASHING: "PERM-A-BARRIER" AS MANUFACTURED BY GRACE CONSTRUCTION PRODUCTS OR APPROVED EQUAL.

9. MINIMUM BEARING OF MASONRY ON MASONRY SHALL BE 7 1/2".

10. ISOLATE STEEL COLUMNS FROM CONTACT WITH MASONRY WITH 15# FELT PAPER OR CONTROL JOINT FILLER STRIPS.

11. BRICK CLEANING COMPOUND, SURE KLEAN, NO. 600, BY PROSOCO OR APPROVED EQUAL.

12. CONCRETE BLOCK CLEANED PER NCMA TEK BULLETIN NO. 2-2.

13. MASONRY WALLS SHALL HAVE CONTROL JOINTS AT 25' O.C. MAXIMUM, U.N.O. IN THE DRAWINGS. REFER TO THE STRUCTURAL DRAWINGS FOR CONTROL JOINTS IN CONCRETE MASONRY WALLS. FOR BRICK VENEER: IN GENERAL, INSTALL CONTROL JOINTS IN THE FOLLOWING AREAS:

A. AT CHANGES IN WALL HEIGHT OR THICKNESS

B. AT CONSTRUCTION JOINTS OF FOUNDATIONS, ROOFS AND/OR FLOORS

C. MASONRY OPENINGS

D. COLUMNS OR PILASTERS

14. MASONRY CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF SLEEVES THROUGH FOUNDATION WALLS. SLEEVES AND THEIR LOCATIONS ARE TO BE PROVIDED BY THE VARIOUS CONTRACTORS' NEED FOR SLEEVES.

15. ROUGH OPENINGS OF ALL DOORS, WINDOWS, STOREFRONTS, ETC. SHALL BE VERIFIED PRIOR TO START OF MASONRY WORK.

16. SUBMIT PDF'S OF SHOP DRAWINGS OF REINFORCING MATERIALS, FOR APPROVAL, PRIOR TO FABRICATION.

04 73 00 - MANUFACTURED STONE VENEER

PART 1 GENERAL

I. SECTION INCLUDES:

1. CULTURED STONE VENEER.

2. ARCHITECTURAL TRIM STONE.

II. RELATED SECTIONS
A. SECTION 04 20 00 - UNIT MASONRY.
B. SECTION 05 40 00 - COLD-FORMED METAL FRAMING.
C. SECTION 06 10 00 - ROUGH CARPENTRY.
D. SECTION 07 27 00 - AIR BARRIERS.
E. SECTION 07 28 00 - UNDERLAYMENTS
F. SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM.
G. SECTION 07 90 00 - JOINT PROTECTION.

III. REFERENCES

1. ASTM C 39 - STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS
2. ASTM C 67 - STANDARD TEST METHODS FOR SAMPLING AND TESTING BRICK AND STRUCTURAL CLAY TILE.
3. ASTM C 177 - STANDARD TEST METHOD FOR STEADY-STATE HEAT FLUX MEASUREMENTS AND THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE GUARDED-HOT-PLATE APPARATUS.
4. ASTM C 192 - STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE LABORATORY.
5. ASTM C 482 - STANDARD TEST METHOD FOR BOND STRENGTH OF CERAMIC TILE TO PORTLAND CEMENT.
6. ASTM C 1670 - STANDARD SPECIFICATION FOR ADHERED MANUFACTURED STONE MASONRY VENEER UNITS.
7. ASTM C 1780 - STANDARD PRACTICE FOR INSTALLATION METHODS FOR ADHERED MANUFACTURED STONE MASONRY VENEER
8. UL 723 - STANDARD FOR SAFETY FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
9. ICC ES AC 51 ACCEPTANCE CRITERIA FOR MANUFACTURED STONE VENEER
10. MASONRY VENEER MANUFACTURES ASSOCIATION (MVMA): INSTALLATION GUIDE FOR ADHERED MANUFACTURED STONE VENEER

IV. PART 2 DESIGN / PERFORMANCE REQUIREMENTS

1. BUILDING CODE COMPLIANCE:
A. INTERNATIONAL CODE COUNCIL (ICC):
1. ES REPORT: ICC ESR 1364

2. UBC STANDARD NO. 14-1, KRAFT WATERPROOF BUILDING PAPER.

B. TESTED BY UNDERWRITERS LABORATORIES, INC.

C. BACKUP WALL SYSTEM AND INSTALLATION METHOD FOR MANUFACTURED STONE VENEER SHALL MEET THE REQUIREMENTS OF ASTM C 1780 - STANDARD PRACTICE FOR INSTALLATION METHODS FOR ADHERED MANUFACTURED STONE MASONRY VENEER.

V. SUBMITTALS:

1. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
A. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.

B. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.

C. INSTALLATION STANDARDS AND METHODS.

2. SHOP DRAWINGS: SUBMIT DRAWINGS DEPICTING PROPER INSTALLATION AND FLASHING TECHNIQUES. COORDINATE LOCATIONS WITH THOSE FOUND ON THE DRAWINGS.

3. SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS OF COLOR SAMPLE REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND TEXTURES.

4. VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 8 INCHES (203 MM) SQUARE, REPRESENTING ACTUAL PRODUCT, COLOR, AND TEXTURE.

5. MANUFACTURER'S CERTIFICATES: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

6. CLOSEOUT SUBMITTALS: PROVIDE MANUFACTURER'S MAINTENANCE INSTRUCTIONS THAT INCLUDE RECOMMENDATIONS FOR CLEANING AND REPAIR OF COMPONENTS.

VI. QUALITY ASSURANCE:

1. MANUFACTURER QUALIFICATIONS: MANUFACTURER WHO IS A CURRENT MEMBER OF MASONRY VENEER MANUFACTURES ASSOCIATION (MVMA) WITH A MINIMUM OF 5 YEARS DOCUMENTED EXPERIENCE MANUFACTURING AND MARKETING ALL MANUFACTURED STONE PRODUCTS OF THE TYPE SPECIFIED IN THIS SECTION.

2. INSTALLER QUALIFICATIONS: COMPANY WITH DOCUMENTED EXPERIENCE IN INSTALLATION OF MANUFACTURED MASONRY OF THE TYPE SPECIFIED INCLUDING AT LEAST FIVE PROJECTS WITHIN A 400 MILE RADIUS OF THE PROJECT.

3. PRE-INSTALLATION CONFERENCE:
A. CONTRACTOR SHALL ARRANGE A MEETING NOT LESS THAN THIRTY DAYS PRIOR TO STARTING STONE VENEER WORK.

B. ATTENDANCE: CONTRACTOR, ARCHITECT/OWNER REPRESENTATIVE, VENEER STONE INSTALLER AND MANUFACTURER'S REPRESENTATIVE.

VII. DELIVERY, STORAGE, AND HANDLING:

1. STORE AND HANDLE PRODUCTS IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

2. STORE PRODUCTS OFF THE GROUND ON PALLETS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.

3. PROTECT MATERIALS FROM PRECIPITATION AND FREEZING TEMPERATURES. PRODUCT WITH VISIBLE FROZEN MOISTURE SHOULD NOT BE INSTALLED.

VIII. PROJECT CONDITIONS:

1. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

2. COLD WEATHER INSTALLATIONS: MAINTAIN MATERIALS AND AMBIENT TEMPERATURE AT MINIMUM 40 DEGREES F (4 DEGREES C) PRIOR TO, DURING, AND 48 HOURS AFTER INSTALLATION.

3. HOT WEATHER INSTALLATIONS: MIST WATER ON THE SCRATCH COATED SURFACE AND THE BACKS OF THE MASONRY VENEER FOR INSTALLATIONS THAT EXCEED 90 DEGREES (32 DEGREES C).

IX. WARRANTY:

1. PROVIDE MANUFACTURERS 50 YEAR LIMITED WARRANTY.

PART 2 PRODUCTS

I. MANUFACTURERS:

1. BASIS OF DESIGN: CULTURED STONE® BY BORAL®, WHICH IS LOCATED AT: 200 MANSELL COURT E. SUITE 305; ROSWELL, GA 30076; TOLL FREE TEL: 800-255-1727: WWW.CULTUREDSTONE.COM.

2. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SECTION 01 60 00 - PRODUCT REQUIREMENTS.

II. MANUFACTURED STONE VENEER – GENERAL:

1. MANUFACTURED STONE VENEER PERFORMANCE REQUIREMENTS: CONFORMING TO ASTM C 1670 AND AS FOLLOWS:

A. COMPRESSIVE STRENGTH: NOT LESS THAN 1800 PSI (12.4 MPA) AVERAGE FOR 5 SPECIMENS AND NOT LESS THAN 2100 PSI (14.4 MPA) FOR INDIVIDUAL SPECIMEN WHEN TESTED IN ACCORDANCE WITH ASTM C 39 AND ASTM C 192.

B. BOND BETWEEN MANUFACTURED MASONRY UNIT, MORTAR AND BACKING: NOT LESS THAN 50 PSI (345 KPA) WHEN TESTED IN ACCORDANCE WITH ASTM C 482 USING TYPE S MORTAR.

C. THERMAL RESISTANCE: R-VALUE OF NOT LESS THAN 0.355 PER INCH (25.4 MM) OF THICKNESS WHEN TESTED IN ACCORDANCE WITH ASTM C 177.

D. FREEZE/THAW: NO DISINTEGRATION AND LESS THAN 3 PERCENT WEIGHT LOSS WHEN TESTED IN ACCORDANCE WITH ASTM C 67.

E. WATER ABSORPTION: TESTED IN ACCORDANCE WITH UBC 15-5 9-22% DEPENDING ON DENSITY VALUE.

F. UNIT WEIGHT: NOT MORE THAN 15 PSF (73 KG/M2) SATURATED.

G. SURFACE BURNING CHARACTERISTICS: NOT MORE THAN THE FOLLOWING WHEN TESTED IN ACCORDANCE WITH UL 723:
1. FLAMESPREAD: 25.

2. SMOKE DEVELOPMENT: 450.

H. UV STABLE- MINERAL OXIDE PIGMENTS.

III. CERTIFICATIONS:

1. ICC ES AC 51 ACCEPTANCE CRITERIA FOR MANUFACTURED STONE VENEER

2. ICC EVALUATION SERVICE - EVALUATION REPORT ESR 1364 AND ASTM C 1670.

3. UL TESTED FOR SURFACE BURNING CHARACTERISTICS

IV. CULTURED STONE VENEER:

1. CULTURED STONE ANCIENT VILLA LEDGESTONE: INCLUDES MATCHING CORNER PIECES.
A. HEIGHT: VARIABLE FROM 2 INCHES TO 12 INCHES.

B. LENGTHS: VARIABLE FROM 5 INCHES TO 16 INCHES.

C. COLOR: SUBMIT SAMPLES FOR FINAL COLOR APPROVAL PRIOR TO ORDERING

D. WALLS: PROVIDE WITH SINGLE COLOR AND TEXTURE THROUGHOUT.

V. ARCHITECTURAL TRIM STONES:

1. TUSCAN LINTELS:
A. NOMINAL SIZE: 22 INCHES BY 6 INCHES BY 2-5/8 INCHES

B. COLOR: FINAL SELECTION TBD. SUBMIT SAMPLES OF REQUESTED COLORS FOR FINAL SELECATION

PART 3 EXECUTION

I. EXAMINATION:

1. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED IN CONFORMANCE WITH ASTM C 1780 FOR THE BACKUP WALL SYSTEM INDICATED ON THE DRAWINGS.

2. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

II. PREPARATION:

1. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

2. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

III. INSTALLATION:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2. INSTALL MANUFACTURED STONE MASONRY VENEER IN ACCORDANCE WITH MVMA INSTALLATION GUIDE FOR ADHERED MANUFACTURED STONE VENEER, ASTM C 1780 AND APPLICABLE CODES.

3. INSTALL/APPLY RELATED MATERIALS IN ACCORDANCE WITH TYPE OF SUBSTRATE AND MANUFACTURED STONE VENEER MANUFACTURE'S INSTALLATION INSTRUCTIONS.

4. GENERAL:
A. WALLS: PROVIDE WITH SINGLE COLOR AND TEXTURE THROUGHOUT.
B. PROVIDE STONES MANUFACTURED SPECIFICALLY FOR INSTALLATION AT OUTSIDE CORNERS.
C. MORTAR JOINTS
1. STYLE: STANDARD 1/2 INCH TOOLED, TOOL ALL GROUT JOINTS.

D. STONE DIRECTION: HORIZONTAL PLACEMENT

E. WINDOWS, DOORS AND WALL OPENINGS:
1. BUTT FIELD STONES TO WALL OPENING.

2. INSTALL SPECIFIED TRIM STONES

F. SILLS: INSTALL SILLS WHERE LOCATED ON THE DRAWINGS.

5. SEAL ALL JOINTS AT WALL OPENINGS AND PENETRATIONS WITH A SEALANT APPROVED FOR USE WITH MASONRY PRODUCTS.

6. FLASHING: COORDINATE WITH FLASHINGS SPECIFIED IN SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM.

IV. FIELD QUALITY CONTROL

1. MANUFACTURER'S FIELD SERVICES: PROVIDE PERIODIC SITE VISITS AS NECESSARY. REPORT ANY DISCREPANCIES TO THE CONTRACTOR WITH COPIES TO THE ARCHITECT WITHIN 24 HOURS OF EACH VISIT.

2. CLEAN MANUFACTURED MASONRY IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS

3. PROTECT FINISHED WORK FROM RAIN AND WORK ON EITHER SIDE OF THE WALL DURING AND FOR 48 HOURS FOLLOWING INSTALLATION.

4. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.

5. CLEAN PRIOR TO PROJECT CLOSEOUT.

6. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

DIVISION 5 – MISCELLANEOUS STEEL

05 12 00 - STRUCTURAL STEEL FRAMING

PART 1 GENERAL

I. SUMMARY

A. SECTION INCLUDES: ALL LABOR AND MATERIALS REQUIRED TO FURNISH AND INSTALL THE STRUCTURAL STEEL SHOWN ON THE DRAWINGS AND REQUIRED BY THESE SPECIFICATIONS, INCLUDING THAT SHOWN ON MECHANICAL OR ELECTRICAL DRAWINGS, OR REQUIRED IN THEIR SPECIFICATION SECTIONS.

B. RELATED SECTIONS: CAREFULLY EXAMINE ALL OTHER SECTIONS AND ALL DRAWINGS FOR RELATED WORK, WHICH INCLUDES BUT IS NOT LIMITED TO:
1. CAST-IN-PLACE CONCRETE SECTION 03 3000
2. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SECTION 05 1213
3. STEEL JOISTS SECTION 05 2000
4. COLD-FORMED STEEL DECK SECTION 05 3000
5. PRE-ENGINEERED METAL BUILDING SECTION 13 3419

C. SPECIFICATIONS RELATED TO SECTION 05 1213 HAVE BEEN INCLUDED IN THIS SECTION 05 1200 IN SECTION IV BELOW.

D. WORK FURNISHED BUT INSTALLED UNDER OTHER SECTIONS: ANCHOR BOLTS, LOOSE BEARING AND BASE PLATES, AND LOOSE LINTELS.

E. WORK AFFECTED BY OTHERS: FRAMING, LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO PLUMBING, HVAC, OR ELECTRICAL REQUIREMENTS IS SHOWN FOR BIDDING PURPOSES ONLY. RESPONSIBILITY FOR COORDINATING THE WORK OF THIS SECTION WITH THESE REQUIREMENTS IS SOLELY THAT OF THE CONTRACTOR. CONTRACTOR'S REVIEW OF SHOP DRAWINGS WILL BE TAKEN TO INDICATE THAT THIS COORDINATION HAS BEEN ACCOMPLISHED.

F. SPECIAL INSPECTION AND TESTING SERVICES REQUIRED BY THIS SECTION ARE TO BE PERFORMED BY AN AGENCY RETAINED BY THE OWNER.

II. QUALITY ASSURANCE

A. REFERENCE STANDARDS:
1. BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC):
A. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 15TH EDITION, (AISC 360-16)
B. SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, RCSC (2014).
C. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, (AISC 303-16).
2. BY THE AMERICAN WELDING SOCIETY (AWS):
A. STRUCTURAL WELDING CODE – STEEL AWS D1.1 (2015)
B. SYMBOLS FOR WELDING AND NON-DESTRUCTIVE TESTING AWS A2.4-12.

B. FABRICATOR'S QUALIFICATIONS:
1. MINIMUM FIVE YEARS' CONTINUOUS EXPERIENCE IN THE FABRICATION OF STEEL FOR PROJECTS OF SIMILAR QUALITY AND SCOPE.
2. THE CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES ACCORDING TO SECTION 8.5 OF AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. ALTERNATIVELY, SPECIAL INSECTION OF THE FABRICATOR'S FACILITY IS NOT REQUIRED IF THE FABRICATOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY (BU); OR, IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCEPTANCE CRITERIA 172).

C. ERECTOR'S QUALIFICATIONS: MINIMUM FIVE YEARS' CONTINUOUS EXPERIENCE IN SIMILAR STEEL ERECTION.

D. WELDERS' QUALIFICATIONS: PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED IN ACCORDANCE WITH AWS D1.1.

E. SPECIAL INSPECTION AGENCY'S QUALIFICATIONS: MINIMUM THREE YEARS' EXPERIENCE IN SIMILAR STEEL INSPECTION, AND APPROVAL OF THE ARCHITECT OR ENGINEER.

05 12 00 - STRUCTURAL STEEL FRAMING (CONT)

III. SUBMITTALS

A. CERTIFICATION OF EXPERIENCE: SUBMIT, ON REQUEST ONLY, WRITTEN SUMMARY OF PERSONNEL, PROJECTS, AND EQUIPMENT WHICH DOCUMENT THE EXPERIENCE AND QUALIFICATIONS REQUIRED OF THE FABRICATOR, INSPECTION AGENCY, ERECTOR, AND WELDERS.

B. SHOP DRAWINGS
1. INDICATE ALL SHOP AND ERECTION DETAILS, INCLUDING CUTS, COPES, CONNECTIONS, HOLES, THREADED FASTENERS, AND WELDS.
2. INDICATE MATERIAL SPECIFICATIONS AND FINISHES.
3. INDICATE SHOP AND FIELD WELDS WITH SYMBOLS PER AWS D2.4.
4. INDICATE NEW WELD LENGTHS.
5. NOTWITHSTANDING ANY OTHER REQUIREMENTS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS, SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. ONLY PRINTS WITH THE APPROVAL STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.

C. DELEGATED DESIGN SUBMITTALS: FOR STRUCTURAL STEEL CONNECTIONS INDICATED ON THE STRUCTRUAL DRAWINGS TO COMPLY WITH DESIGN LOADS. SHOP DRAWINGS RELATED TO CONNECTION DESIGN AND ALSO THE SET OF CONNECTION CALCULATIONS INCLUDING ANALYSIS DATA SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN.

D. PROOF OF COMPLIANCE FOR MATERIALS: SUBMIT THE FOLLOWING UPON REQUEST ONLY:
1. MILL REPORTS FOR PROPERLY IDENTIFIED MATERIAL FOR:
A. STRUCTURAL STEEL SHAPES.
B. HIGH STRENGTH THREADED FASTENERS.

E. INSPECTION REPORTS: SUBMIT REPORTS FOR THE INSPECTION SPECIFIED.

F. SUBMIT ERECTOR'S AFFIDAVIT THAT FRAME HAS BEEN ERECTED PLUMB AND LEVEL WITHIN THE TOLERANCES OF THE CODE OF STANDARD PRACTICE.

IV. PRODUCT DELIVERY AND STORAGE

A. DELIVERY:
1. COMPLY WITH ASTM A6/A6M. NON-COMPLIANCE WILL BE CAUSE FOR REJECTION.
2. DELIVER ANCHOR BOLTS AND OTHER ITEMS TO BE EMBEDDED IN CAST-IN-PLACE CONCRETE OR MASONRY PRIOR TO THE START OF THAT WORK. PROVIDE SETTING DRAWINGS, TEMPLATES, OR INSTRUCTIONS REQUIRED FOR THE INSTALLATION OF SUCH ITEMS.

B. STORAGE:
1. STORE STEEL AT SITE ABOVE GROUND ON PLATFORMS, SKIDS OR OTHER SUPPORTS.
2. PROTECT STEEL FROM DAMAGE.

PART 2 PRODUCTS

I. MATERIALS

A. STRUCTURAL STEEL SHAPES:
1. FY=36 KSI STEEL: ASTM A36 (ANGLES, CHANNELS, PLATES, BARS, ROUNDS).
2. FY=50 KSI STEEL: ASTM A572 (PLATES AND BARS AS SPECIFIED ON THE DRAWINGS)
3. FY=50 KSI STEEL: ASTM A992 (ALL WIDE FLANGE BEAMS)
4. ALL MATERIAL SHALL BE PRODUCED DOMESTICALLY.

B. STRUCTURAL STEEL TUBING:
1. FY=35 KSI ROUND TUBING: ASTM A53, TYPE E OR TYPE S, GRADE B.
2. FY=46 KSI MINIMUM - COLD FORMED HOLLOW STRUCTURAL SECTIONS, ROUNDS, SQUARES, AND RECTANGLES: ASTM A500, GRADE C.

C. ANCHOR BOLTS, STANDARD BOLTS AND NUTS: ASTM F1554, FY = 36 KSI MINIMUM, OR 55 KSI AS SPECIFIED ON THE DRAWINGS. PROVIDE WASHERS AND HEAVY NUTS FOR ANCHOR BOLTS (BOTH ENDS), ASTM A563 NUTS AND ASTM F436 WASHERS.

D. HIGH STRENGTH THREADED FASTENERS:
1. BOLTS AND FASTENER ASSEMBLIES PER ASTM F3125
2. BOLT GRADES: A325 OR A490, TYPE 1.
2. NUTS: ASTM A563, GRADE DH
3. WASHERS: ASTM F436, TYPE 1, HARDENED, PLAIN FINISH.
4. DIRECT-TENSION INDICATORS: ASTM F959, TYPE 325-1, COMPRESSIBLE-WASHER TYPE WITH PLAIN FINISH.

E. WELDING ELECTRODES: CONFORM TO REQUIREMENTS OF AWS D1.1, USING SERIES E70 ELECTRODES, APPROPRIATE FOR THE MATERIALS BEING WELDED.

F. SHOP PAINT PRIMER:
1. FOR BARE STEEL, FOLLOW SSPC-PAINT 23, LATEX PRIMER; OR, USE MODIFIED ALKYD OR ALKYD-OIL PRIMERS, EQUAL IN QUALITY 10-99W TNEMEC PRIMER.
2. FOR GALVANIZED STEEL TO BE PAINTED, USE EPOXY PRIMER, EQUAL IN QUALITY TO SERIES 27 F.C. TYPOXY BY TNEMEC COMPANY, INC.
3. TOUCH-UP PRIMER FOR GALVANIZED SURFACES: SSPC-PAINT 20, TYPE 1 – INORGANIC.
4. PRIMER TO BE COMPATIBLE WITH FINISH PAINT.

G. MASONRY ANCHORS: 11 GAGE CHANNEL SLOTS OR 3/16-INCH DIAMETER WIRES, SHOP WELDED TO STRUCTURAL STEEL.

H. TURNBUCKLES: ASTM F1145 CAPACITIES TO MATCH THOSE LISTED IN THE AISC STEEL CONSTRUCTION MANUAL, PART 15.

J. CLEVISES AND SLEEVENUTS: ASTM A668; CLASS A WITH FU = 58 KSI MINIMUM AND FY = 30 KSI MINIMUM. CAPACITIES TO MATCH THOSE LISTED IN THE AISC STEEL CONSTRUCTION MANUAL, PART 15.

K. SHRINK-RESISTANT GROUT: ASTM C1107; MIN. F'c = 7,000 PSI AT 3 DAYS; METALLIC OR NON-METAILLIC.

II. FABRICATION

A. CONFORM TO APPLICABLE PROVISIONS OF THE REFERENCE STANDARDS LISTED IN PART 1 OF THIS SECTION, AS MODIFIED HEREIN.

B. CONNECTION DESIGN:
1. CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF MARYLAND, FOR THE FORCES AND MOMENTS PROVIDED IN THE STRUCTURAL DRAWINGS. FINAL SUBMIT

6. IN THE EVENT CONNECTION INFORMATION IS MISSING OR VAGUE FOR A SPECIFIC CONDITION, THE FABRICATOR MAY EITHER SUGGEST A CONFIGURATION OR REQUEST ADDITIONAL INFORMATION IN WRITING IN ORDER TO COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS PRIOR TO SUBMITTING SHOP DRAWINGS.
7. SHOP CONNECTIONS MAY BE WELDED OR BOLTED, UNLESS SHOWN OTHERWISE.
8. FIELD CONNECTIONS SHALL BE BOLTED, UNLESS SHOWN OTHERWISE.
9. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16 INCH THICK AND WELDED FIELD SPLICE OF MAIN MEMBERS SHALL BE SUBJECTED TO NON-DESTRUCTIVE TESTING (OTHER THAN VISUAL INSPECTION) BY THE INDEPENDENT SPECIAL INSPECTION AND TESTING AGENCY.
10. ALL BOLTS IN BRACED FRAMES AND BOLTS IN SHEAR CONNECTIONS USED IN CONJUNCTION WITH FULL OR PARTIAL PENETRATION FLANGE WELDS SHALL BE SLIP CRITICAL (FRICTION) TYPE.

C. CAMBER: SPANS LONGER THAN 42 FEET ARE TO HAVE MINIMUM CAMBER AS FOLLOWS: 42 - 52 FEET, 1 INCH; 52 - 65 FEET, 2 INCHES; 65 - 85 FEET, 3 INCHES; UNLESS NOTED OTHERWISE.

D. SWEEP: FABRICATE EXTERIOR SPANDREL BEAMS WITH NATURAL SWEEP TOWARD THE INTERIOR OF THE BUILDING.

E. FINISHING: ENDS OF MEMBERS IN DIRECT CONTACT BEARING, SUCH AS COLUMNS AT THEIR BASES AND SPLICES, ARE TO BE "FINISHED," AS DEFINED IN THE CODE OF STANDARD PRACTICE.

F. BEARING AND BASE PLATES: COLUMN BASE PLATES ARE TO BE SHOP ATTACHED. BEAM BEARING PLATES MAY BE ATTACHED OR LOOSE.

G. HOLES: DRILL OR PUNCH HOLES IN MEMBERS AS REQUIRED FOR PASSAGE OF CONDUIT AND PIPING, AND ATTACHMENT OF JOISTS, NAILERS, ETC. BURNING SUCH HOLES IS NOT PERMITTED. IF OPENING IS NOT SHOWN ON STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

H. CLEANING:
1. REMOVE OIL, DIRT, LOOSE MILL SCALE, OR OTHER MATERIAL WHICH WOULD IMPAIR WELDING, PERFORMANCE OF SLIP CRITICAL CONNECTIONS, OR ADHERENCE OF CONCRETE OR SPRAYED FIREPROOFING.
2. FOR STEEL THAT IS TO BE PAINTED, CLEANING TECHNIQUES ARE TO BE AS REQUIRED BY THE APPROPRIATE SSPC PAINT SPECIFICATION LISTED BELOW.

K. SHOP PAINTING:
1. SHOP-PAINT STEEL EXPOSED TO VIEW IN THE FINISHED STRUCTURE, EXCEPT THAT TO BE GALVANIZED, WITH PRIMER AS FOLLOWS:
   A. PREPARE SURFACE BY COMMERCIAL BLAST CLEANING PER "SSPC-SP 6 (WAB)/NACE WAB-3" AND APPLY ONE COAT OF PRIMER.
   B. MINIMUM DRY FILM THICKNESS SHALL BE 2.0 MILS.
   C. DO NOT PAINT SURFACES TO BE ENCASED IN CONCRETE OR TO RECEIVE SPRAYED FIREPROOFING, OR CONTACT SURFACES IN SLIP-CRITICAL CONNECTIONS, OR SURFACES TO BE FIELD-WELDED, OR TOP SURFACES OF CRANE RAILS.
2. STEEL NOT EXPOSED TO VIEW IN THE FINISHED STRUCTURE NEED NOT BE PAINTED, EXCEPT COLUMNS AND PORTIONS OF BEAMS OTHER THAN LINTELS EMBEDDED IN OR BUILT WITHIN EXTERIOR WALLS, WHICH SHALL BE PAINTED WITH TWO COATS OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE, FOR A TOTAL DRY FILM THICKNESS OF 4.0 MILS.
3. PAINT ALL LINTELS IN INTERIOR WALLS WITH ONE COAT OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE.
4. SEE THE ARCHITECTURAL DRAWINGS AND SECTION 09900 FOR GALVANIZED STEEL ITEMS TO BE PAINTED. PREPARE THE GALVANIZED SURFACE OF GALVANIZED STEEL THAT IS TO BE PAINTED BY SOLVENT CLEANING (SSPC-SP1) OR BY HIGH-PRESSURE DETERGENT CLEANING TO REMOVE SOLUBLE CONTAMINANTS. USE SSPC-SP2 HAND TOOL CLEANING OR SSPC-SP3 POWER TOOL CLEANING TO REMOVE INSOLUBLE CONTAMINANTS SUCH AS WHITE RUST, IF PRESENT. COMPLETE THE CLEANING PROCESS WITH SSPC-SP7 BRUSH OFF BLAST CLEANING, USING THE PROPER ABRASIVE AND CARE TO PREVENT REMOVAL OF THE GALVANIZING. PRIME PAINT WITH PRIMER TO BE USED FOR GALVANIZED STEEL.

L. GALVANIZING:
1. PREPARE SURFACES ACCORDING TO SSPC-SP 16.
2. GALVANIZING IS TO CONFORM TO ASTM A123, GRADE 100, OR ASTM A153, CLASS C. FOLLOW ALL RECOMMENDATIONS OF THE AMERICAN HOT DIP GALVANIZERS ASSOCIATION.
3. EXCEPT FOR BOLTS, NUTS, WASHERS, AND ANCHORS, PERFORM ALL GALVANIZING AFTER FABRICATION.
4. PRIOR TO GALVANIZING, CLEAN STEEL OF FOREIGN SUBSTANCES PER ASTM A385.
5. DO NOT TREAT GALVANIZED FINISH WITH A STAIN-INHIBITING CHROMATE TREATMENT.
6. AFTER FINAL ERECTION, TOUCH-UP ALL ABRASIONS WITH A COLD GALVANIZING COMPOUND, Z.R.C. COLD GALVANIZING COMPOUND BY ZRC PRODUCTS COMPANY, OR EQUAL.
7. GALVANIZE ALL SHELF ANGLES, LINTELS IN EXTERIOR WALL, AND ALL STEEL EXPOSED TO THE ELEMENTS AND ALL ITEMS INDICATED ON THE DRAWINGS AS GALVANIZED.

PART 3 EXECUTION

I. SURFACE CONDITIONS

A. PRIOR TO BEGINNING WORK OF THIS SECTION, VERIFY THAT THE INSTALLED WORK OF OTHER TRADES IS COMPLETE AND CORRECT TO THE EXTENT NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THIS SECTION. THIS INCLUDES LOCATIONS OF ANCHOR BOLTS, AND LINES AND GRADES OF BEARING AREAS.

B. IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER. DO NOT PROCEED WITH WORK AFFECTED BY THE DISCREPANCIES UNTIL THEY HAVE BEEN RESOLVED.

II. ERECTION

A. CONFORM TO THE APPLICABLE PROVISIONS OF THE REFERENCE STANDARDS LISTED IN PART 1 OF THIS SECTION, AS MODIFIED HEREIN.

B. THIS STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. ANCHOR BOLTS AT STEEL COLUMN BASES ARE NOT DESIGNED TO PROVIDE, AND WILL NOT PROVIDE, STABILITY FOR THE STEEL FRAME DURING ERECTION. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY.

C. SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.

D. CLEAN BEARING SURFACES AND OTHER SURFACES IN PERMANENT CONTACT, PRIOR TO ASSEMBLY.

E. SPLICES ARE PERMITTED ONLY WHERE INDICATED.

F. TOLERANCES: PER AISC CODE OF STANDARD PRACTICE.

G. FIELD CORRECTIONS OF FABRICATION ERRORS BY GAS CUTTING IS NOT PERMITTED IN STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

H. THE USE OF LEVELING PLATES AT COLUMN BASES AND THE USE OF LEVELING NUTS IS PROHIBITED. THE USE OF STEEL SHIM PACKS IS ACCEPTABLE. GROUT BELOW COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.

I. WELDS WHICH ARE SUBJECT TO FOOT TRAFFIC OR ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE ARE TO BE GROUND SMOOTH AND FLUSH WITH ADJACENT SURFACES.

J. TOUCH-UP PAINTING: AFTER ERECTION, TOUCH-UP FIELD CONNECTIONS AND ABRASIONS IN THE SHOP COAT WITH SAME PAINT USED FOR SHOP COAT. DO NOT PAINT WELDS UNTIL THEY HAVE BEEN CLEANED IN ACCORDANCE WITH AWS D1.1.

K. PERFORM ALL SPECIAL INSPECTION ITEMS LISTED ON THE STRUCTURAL DRAWINGS IN THE STRUCTURAL GENERAL NOTES.

III. FIELD QUALITY CONTROL

A. SPECIAL INSPECTION AGENCY SHALL PERFORM THE FOLLOWING:
1. REVIEW QUALIFICATIONS OF WELDERS, OPERATORS, AND WELDING PROCEDURES SUBMITTED BY THE CONTRACTOR.
2. REVIEW MATERIALS' PROOFS OF COMPLIANCE, IF SUCH ARE REQUIRED.
3. INSPECT BOLTED CONNECTIONS, PER THE REQUIREMENTS OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS.
4. INSPECT WELDED CONNECTIONS PER THE REQUIREMENTS OF AWS D1.1, CHAPTER 6. WELDS REQUIRING NON-DESTRUCTIVE TESTS ARE INDICATED ON THE DRAWINGS. (OTHER THAN VISUAL INSPECTION.).
5. PERFORM ALL SPECIAL INSPECTION ITEMS LISTED ON THE STRUCTURAL DRAWINGS IN THE STRUCTURAL GENERAL NOTES.

IV. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

A. PERFORMANCE REQUIREMENTS:
1. COMPLY WITH REQUIREMENTS OF ANSI/AISC 303, SECTIONS 1 THROUGH 9 AND AS MODIFIED IN SECTION 10, "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL." (AESS)

B. FABRICATION: SHOP FABRICATE AND ASSEMBLE AESS TO THE MAXIMUM EXTENT POSSIBLE. LOCATE FIELD JOINTS AT CONCEALED LOCATIONS IF POSSIBLE. DETAIL ASSEMBLIES TO MINIMIZE HANDLING AND TO EXPEDITE ERECTION.

1. CATEGORY AESS 1:
   AESS category paragraphs below are based on ANSI/AISC 303, Section 10 requirements and generally follow the sequence outlined in Table 10.1, "AESS Category Matrix." Applicable Section 10 provisions have been added when not outlined in Table 10.1.
   COMPLY WITH OVERALL PROFILE DIMENSIONS OF AWS D1.1 FOR WELDED BUILT-UP MEMBERS. KEEP APPEARANCE AND QUALITY OF WELDS CONSISTENT. MAINTAIN TRUE ALIGNMENT OF MEMBERS WITHOUT WARP EXCEEDING SPECIFIED TOLERANCES.
   b. PREPARE SURFACES ACCORDING TO PART 2 "SHOP PRIMING" ARTICLE AND SSPC-SP 6 (WAB)/NACE WAB-3.
   c. GRIND SHEARED, PUNCHED, AND FLAME-CUT EDGES TO REMOVE BURRS AND PROVIDE SMOOTH SURFACES AND EASED EDGES.
   d. MAKE INTERMITTENT WELDS APPEAR CONTINUOUS, USING FILLER OR ADDITIONAL WELDING.
   e. SEAL WELD OPEN ENDS OF HOLLOW STRUCTURAL SECTIONS WITH 3/8-INCH THICK CLOSURE PLATES, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   f. LIMIT BUTT AND PLUG WELD PROJECTIONS TO 1/16 INCH.
   g. INSTALL BOLT HEADS ON THE SAME SIDE OF EACH CONNECTION AND MAINTAIN ORIENTATION CONSISTENTLY FROM ONE CONNECTION TO ANOTHER.
   h. REMOVE WELD SPATTER, SLIVERS, AND SIMILAR SURFACE DISCONTINUITIES.
   j. REMOVE BLEMISHES AND SURFACE IRREGULARITIES RESULTING FROM TEMPORARY BRACES OR FIXTURES BY FILLING OR GRINDING. BEFORE CLEANING, TREATING, AND SHOP PRIMING.
   k. GRIND TACK WELDS SMOOTH UNLESS INCORPORATED INTO FINAL WELDS.
   l. REMOVE BACKING AND RUNOFF TABS, AND GRIND WELDS SMOOTH.
2. CATEGORY AESS 2: IN ADDITION TO REQUIREMENTS FOR CATEGORY AESS 1, COMPLY WITH THE FOLLOWING:
   AESS category paragraphs below are based on ANSI/AISC 303, Section 10 requirements and generally follow the sequence outlined in Table 10.1, "AESS Category Matrix." Applicable Section 10 provisions have been added when not outlined in Table 10.1.
   a. LIMIT AS-FABRICATED STRAIGHTNESS TOLERANCE TO ONE-HALF THAT PERMITTED FOR STRUCTURAL-STEEL MATERIALS IN ANSI/AISC 303.
   b. LIMIT AS-FABRICATED STRAIGHTNESS TOLERANCE TO ONE-HALF THAT PERMITTED FOR STRUCTURAL-STEEL MATERIALS IN ANSI/AISC 303.
   c. LIMIT AS-FABRICATED CURVED STRUCTURAL STEEL TOLERANCE TO THAT PERMITTED FOR STRUCTURAL-STEEL MATERIALS IN ANSI/AISC 303.
   d. LIMIT AS-FABRICATED STRAIGHTNESS TOLERANCE OF WELDED BUILT-UP MEMBERS TO ONE-HALF THAT PERMITTED BY AWS D1.1/D1.1M.
   e. CONCEAL FABRICATION AND ERECTION MARKINGS FROM VIEW IN THE COMPLETED STRUCTURE.
   f. MAKE WELDS UNIFORM AND SMOOTH.

05 2000 – STEEL JOISTS

PART 1 GENERAL

I. SUMMARY

A. SECTION INCLUDES: ALL LABOR AND MATERIALS REQUIRED TO FURNISH AND INSTALL THE STEEL JOISTS SHOWN ON THE DRAWINGS AND REQUIRED BY THESE SPECIFICATIONS. INCLUDE ALL BRIDGING, ANCHORS, EXTENDED ENDS, BEARING PLATES AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. RELATED SECTIONS: CAREFULLY EXAMINE ALL OTHER SECTIONS AND ALL DRAWINGS FOR RELATED WORK, WHICH INCLUDES BUT IS NOT LIMITED TO:
1. STRUCTURAL STEEL: SECTION 05120
2. STEEL DECK: SECTION 05300

C. SPECIAL INSPECTION AGENCY SHALL BE THE SAME AGENCY RETAINED UNDER SECTION 05120, "STRUCTURAL STEEL."

II. QUALITY ASSURANCE

A. REFERENCE STANDARDS, BY THE STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS:

1. K-SERIES STEEL JOISTS: MANUFACTURED STEEL JOISTS OF TYPE INDICATED ACCORDING TO "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES" IN SJI'S "SPECIFICATIONS," WITH STEEL-ANGLE TOP AND BOTTOM CHORD MEMBERS, UNDERSLUNG ENDS, AND PARALLEL TOP CHORD.

2. K-SERIES STEEL JOIST SUBSTITUTES: MANUFACTURE ACCORDING TO "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES" IN SJI'S "SPECIFICATIONS," WITH STEEL-ANGLE OR -CHANNEL MEMBERS.

3. LONG-SPAN STEEL JOISTS: MANUFACTURED STEEL JOISTS ACCORDING TO "STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS, LH-SERIES AND DEEP LONGSPAN STEEL JOISTS, DLH-SERIES" IN SJI'S "SPECIFICATIONS," WITH STEEL-ANGLE TOP- AND BOTTOM-CHORD MEMBERS; OF JOIST TYPE AND END AND TOP-CHORD ARRANGEMENTS AS INDICATED ON DRAWINGS.

B. MANUFACTURER'S QUALIFICATIONS: MEMBERSHIP IN THE STEEL JOIST INSTITUTE; THUS, A MANUFACTURER CERTIFIED BY SJI TO MANUFACTURE JOISTS COMPLYING WITH APPLICABLE STANDARD SPECIFICATIONS AND LOAD TABLES IN SJI'S "SPECIFICATIONS".

1. MANUFACTURER SHALL PROVIDE PROFESSIONAL ENGINEERING SERVICES TO DESIGN SPECIAL JOISTS TO MEET UNIQUE PROJECT SPECIFIC LOADING REQUIREMENTS WHICH DO NOT CONFORM TO STANDARD SJI LOAD TABLES.

C. WELDERS' QUALIFICATIONS: PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY, AS GIVEN IN AWS D1.1, "STRUCTURAL WELDING CODE – STEEL".

D. TOLERANCES:
1. SWEEP: MAXIMUM 1/480 OF JOIST LENGTH.
2. SPACING: MAXIMUM 1 INCH VARIATION, THROUGHOUT FULL JOIST LENGTH.
3. PLUMBNESS: 1/4 INCH PER FOOT OF JOIST DEPTH.

III. SUBMITTALS

A. SHOP DRAWINGS:
1. INDICATE MARK, NUMBER, TYPE AND LOCATION OF ALL JOISTS.
2. INDICATE ALL BRIDGING, INCLUDING SIZE, ATTACHMENT TO THE JOISTS, AND ANCHORAGE OF THE ENDS OF EACH LINE.
3. INDICATE CONNECTION DETAILS AND HANDLING INSTRUCTIONS.
4. INDICATE PAINT TYPE, AND ALL ACCESSORIES REQUIRED FOR PROPER INSTALLATION OF JOISTS.
5. INDICATE CAPACITY FOR NON-UNIFORM LOADS, IF APPLICABLE.
6. INDICATE COMPLETE DETAILS OF FIELD SPLICES.
7. NOTWITHSTANDING ANY OTHER REQUIREMENTS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS, SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. ONLY PRINTS WITH THE APPROVAL STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.

B. STRUCTURAL JOIST AND JOIST GIRDER CALCULATIONS: MANUFACTURER SHALL PROVIDE A SET OF JOIST CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT (MARYLAND) FOR ALL JOISTS WITH NON-UNIFORM LOADING WHICH DO NOT CONFORM TO STANDARD SJI LOAD TABLES.

C. CERTIFICATION: SUBMIT, ON REQUEST ONLY, THE FOLLOWING:
1. CERTIFIED COPIES OF MILL TEST REPORTS.
2. INSPECTION REPORTS FOR FIELD CONNECTIONS, INCLUDING SPLICES.
3. MANUFACTURER'S CERTIFICATE OF COMPLIANCE WITH SJI SPECIFICATIONS.
4. MANUFACTURER'S WELDING CERTIFICATES OF COMPLIANCE WITH AWSD1.1 SPECIFICATIONS.

IV. PRODUCT DELIVERY, STORAGE, AND HANDLING

A. DELIVER ANCHOR BOLTS, BEARING PLATES AND OTHER ITEMS TO BE EMBEDDED IN CAST-IN-PLACE CONCRETE OR MASONRY PRIOR TO THE START OF THAT WORK. PROVIDE SETTING DRAWINGS, TEMPLATES OR INSTRUCTIONS FOR THE INSTALLATION OF SUCH ITEMS.

B. PROVIDE TAGS ON JOISTS FOR READY IDENTIFICATION.

C. STORE JOISTS OFF GROUND, IN UPRIGHT POSITION. KEEP FREE OF DIRT AND OTHER DETRIMENTAL SUBSTANCES.

D. STORE AND HANDLE SO AS TO AVOID DAMAGE TO THE JOISTS. REPAIR OR REPLACE DAMAGED JOISTS.

PART 2 PRODUCTS

I. MATERIALS

A. JOISTS: PER SJI REQUIREMENTS.

B. BEARING PLATES, BRIDGING, ACCESSORIES: ASTM A36, FY=36 KSI.

C. ANCHOR BOLTS: ASTM F1554, FY = 36 KSI.

D. HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: ASTM F3125/F3125M, GRADE A325, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.

II. JOIST ACCESSORIES

A. BRIDGING:
1. PROVIDE BRIDGING ANCHORS AND NUMBER OF ROWS OF HORIZONTAL AND/OR DIAGONAL BRIDGING OF MATERIAL, SIZE, AND TYPE REQUIRED BY SJI'S "SPECIFICATIONS" FOR TYPE OF JOIST, CHORD SIZE, SPACING, AND SPAN. FURNISH ADDITIONAL ERECTION BRIDGING IF REQUIRED FOR STABILITY.

2. SCHEMATICALLY INDICATE DETAILS AND FABRICATE ACCORDING TO SJI'S "SPECIFICATIONS." FURNISH ADDITIONAL ERECTION BRIDGING IF REQUIRED FOR STABILITY.

B. CEILING EXTENSIONS:

1. FURNISH CEILING EXTENSIONS, EITHER EXTENDED BOTTOM-CHORD ELEMENTS OR A SEPARATE EXTENSION UNIT OF ENOUGH STRENGTH TO SUPPORT CEILING CONSTRUCTION.

2. EXTEND ENDS TO WITHIN 1/2 INCH OF FINISHED WALL SURFACE UNLESS OTHERWISE INDICATED ON DRAWINGS.

C. FURNISH MISCELLANEOUS ACCESSORIES INCLUDING SPLICE PLATES AND BOLTS REQUIRED BY JOIST MANUFACTURER TO COMPLETE JOIST ASSEMBLY.

II. DESIGN CRITERIA

A. ROUND BAR CHORDS ARE NOT PERMITTED.

B. EXTENDED ENDS ARE TO BE DESIGNED FOR LOADS INDICATED ON THE DRAWINGS. IF NONE ARE GIVEN, DESIGN FOR THE SAME LOAD (LBS/FT) AS THE JOIST.

C. PROVIDE CEILING EXTENSIONS IN AREAS SCHEDULED TO RECEIVE CONTACT OR SUSPENDED CEILINGS.

D. BRIDGING:
1. PROVIDE BRIDGING ANCHORS AND NUMBER OF ROWS OF HORIZONTAL OR DIAGONAL BRIDGING OF MATERIAL, SIZE, AND TYPE REQUIRED BY SJI'S "SPECIFICATIONS" FOR TYPE OF JOIST, CHORD SIZE, SPACING, AND SPAN. FURNISH ADDITIONAL ERECTION BRIDGING IF REQUIRED FOR STABILITY.
2. FOR K-SERIES JOISTS, USE HORIZONTAL BRIDGING, EXCEPT WHERE DIAGONAL BRIDGING IS SPECIFICALLY SHOWN ON THE DRAWINGS. CONNECTIONS TO JOISTS AND TO EACH OTHER AT POINTS OF INTERSECTION SHALL BE WELDED.
3. FOR LH-SERIES AND DLH-SERIES JOISTS, USE DIAGONAL BRIDGING. CONNECTIONS TO JOISTS AND EACH OTHER SHALL BE BOLTED.

E. NON-UNIFORM LOADS: NOTE SPECIAL LOADING CASES IDENTIFIED ON THE DRAWINGS.

III. FABRICATION

A. JOISTS TO BE FIELD SPLICED ARE TO BE FABRICATED IN MATCHED PAIRS, AND SO MARKED IN THE SHOP.

B. NOTE THAT PITCHED TOP CHORDS OR SLOPING JOISTS MAY REQUIRE A PITCH OR SLOPE EXCEEDING THAT LISTED AS "STANDARD" BY SJI. THE MANUFACTURER IS TO DESIGN FOR THE SAME CAPACITY (LBS./FOOT) AS THE "STANDARD" JOIST.

C. FOR BOTTOM BEARING JOISTS, PROVIDE ADDITIONAL BRIDGING AND/OR BRACING REQUIRED FOR STABILITY DURING ERECTION. NOTE THAT THIS MATERIAL IS NOT SHOWN ON THE DRAWINGS.

IV. CLEANING AND PAINTING

A. CLEAN AND REMOVE LOOSE SCALE, HEAVY RUST, AND OTHER FOREIGN MATERIALS FROM FABRICATED JOISTS AND ACCESSORIES
B. APPLY ONE COAT OF SHOP PRIMER TO JOISTS AND JOIST ACCESSORIES.
C. RETAIN FIRST PARAGRAPH BELOW IF SHOP PRIMING IS SPECIFIED IN THIS SECTION.
PAINT: MANUFACTURER'S STANDARD SHOP PRIMER COMPLYING WITH PERFORMANCE REQUIREMENTS IN SSPC-PAINT 15.

PART 3 EXECUTION

I. SURFACE CONDITIONS

A. PRIOR TO BEGINNING WORK OF THIS SECTION, VERIFY THAT THE INSTALLED WORK OF OTHER TRADES IS COMPLETE AND CORRECT TO THE EXTENT NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THIS SECTION.

B. IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT PROCEED WITH WORK AFFECTED BY THE DISCREPANCIES UNTIL THEY HAVE BEEN RESOLVED.

II. ERECTION

A. GENERAL: INSTALL JOISTS AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE; SECURELY FASTEN TO SUPPORTING CONSTRUCTION ACCORDING TO SJI'S "SPECIFICATIONS," JOIST MANUFACTURER'S WRITTEN INSTRUCTIONS, AND REQUIREMENTS IN THIS SECTION.

1. PROVIDE BEFORE INSTALLATION, SPLICE JOISTS DELIVERED TO PROJECT SITE IN MORE THAN ONE PIECE.
2. SPACE, ADJUST, AND ALIGN JOISTS ACCURATELY IN LOCATION BEFORE PERMANENTLY FASTENING.
3. INSTALL TEMPORARY BRACING AND ERECTION BRIDGING, CONNECTIONS, AND ANCHORS TO ENSURE THAT JOISTS ARE STABILIZED DURING CONSTRUCTION.

B. FIELD WELD JOISTS TO SUPPORTING STEEL FRAMEWORK OR EMBEDDED BEARING PLATES. COORDINATE WELDING SEQUENCE AND PROCEDURE WITH PLACEMENT OF JOISTS. COMPLY WITH AWS REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.

C. RETAIN ONE OF FIRST TWO PARAGRAPHS BELOW FOR BOLTING JOISTS TO STEEL FRAMEWORK. RETAIN FIRST PARAGRAPH IF MILD-STRENGTH CARBON-STEEL BOLTS ARE REQUIRED; RETAIN SECOND IF HIGH-STRENGTH STRUCTURAL BOLTS ARE REQUIRED. MILD-STRENGTH BOLTS ARE STANDARD WITH SJI.BOLT JOISTS TO SUPPORTING STEEL FRAMEWORK USING HIGH-STRENGTH STRUCTURAL BOLTS. COMPLY WITH RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR HIGH-STRENGTH STRUCTURAL BOLT INSTALLATION AND TIGHTENING REQUIREMENTS.

D. INSTALL AND CONNECT BRIDGING CONCURRENTLY WITH JOIST ERECTION, BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF BRIDGING LINES AT TOP AND BOTTOM CHORDS IF TERMINATING AT WALLS OR BEAMS.

E. CONCENTRATED LOADS: PROVIDE REINFORCING FOR CHORDS OR WEBS AS REQUIRED AT POINTS OF CONCENTRATED LOAD.

F. TOUCH-UP PAINTING: AFTER INSTALLATION, TOUCH UP UNPAINTED AREAS, CONNECTIONS, AND ABRASIONS IN THE SHOP COAT, WITH THE SAME PAINT USED FOR THE SHOP COAT.

G. HUNG LOADS: DO NOT HANG ANY LOADS FROM BRIDGING, UNDER ANY CIRCUMSTANCES.

III. FIELD QUALITY CONTROL

A. INSPECTION TO INCLUDE VISUAL EXAMINATION OF JOISTS AND THEIR CONNECTIONS, INCLUDING SPLICES, IF ANY.

05 3000 – STEEL DECK

PART 1 GENERAL

I. SUMMARY

A. SECTION INCLUDES: ALL LABOR AND MATERIALS REQUIRED TO FURNISH AND INSTALL METAL DECKING AND ACCESSORIES INCLUDING, CLOSURES, HANGER DEVICES, EDGE FILLER PLATES, POUR STOPS, RIDGE AND VALLEY PLATES, END CLOSURE ANGLES, AND ROOF SUMP PANS, WHERE SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR A COMPLETE INSTALLATION.

B. RELATED SECTIONS: CAREFULLY EXAMINE ALL OTHER SECTIONS AND ALL DRAWINGS FOR RELATED WORK, WHICH INCLUDES BUT IS NOT LIMITED TO:
1. CAST-IN-PLACE CONCRETE: SECTION 03300
2. STRUCTURAL STEEL: SECTION 05120
3. STEEL JOISTS: SECTION 05200

C. SPECIAL INSPECTION AGENCY SHALL BE THE SAME AGENCY RETAINED UNDER SECTION 05120, "STRUCTURAL STEEL."

II. QUALITY ASSURANCE

A. REFERENCE STANDARDS:
1. AISI S100-16: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016 EDITION, BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI).
2. DIAPHRAGM DESIGN MANUAL, FOURTH EDITION (DDM04-2015), BY THE STEEL DECK INSTITUTE.
3. FLOOR DECK DESIGN MANUAL, SECOND EDITION (FDDM2-2020), BY THE STEEL DECK INSTITUTE.
4. ROOF DECK DESIGN MANUAL (RDDMZ-2020), BY THE STEEL DECK INSTITUTE.
5. ACCEPTANCE CRITERIA FOR STEEL DECK ROOF AND FLOOR SYSTEMS, ICC EVALUATION SERVICE, INC., ICC-ES AC43 2-2020
6. STRUCTURAL WELDING CODE – SHEET STEEL, AWS D1.3 BY THE AMERICAN WELDING SOCIETY, 2018.

B. MANUFACTURER'S QUALIFICATIONS: REGULARLY ENGAGED IN THE MANUFACTURE OF SIMILAR DECKING.

C. ERECTOR'S QUALIFICATIONS: MINIMUM FIVE YEARS' EXPERIENCE IN INSTALLATION OF SIMILAR DECKING.

D. WELDER'S QUALIFICATIONS: PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY, AS GIVEN IN AWS D1.3.

III. SUBMITTALS

A. CERTIFICATION OF EXPERIENCE: SUBMIT, ON REQUEST ONLY, WRITTEN SUMMARY OF PERSONNEL, PROJECTS, AND EQUIPMENT WHICH DOCUMENT THE EXPERIENCE AND QUALIFICATIONS REQUIRED OF THE MANUFACTURER, ERECTOR, AND WELDERS.

B. SHOP DRAWINGS:
1. INDICATE MARK, NUMBER, TYPE, FINISH, AND LOCATION OF ALL DECK UNITS.
2. INDICATE METHOD OF CONNECTION TO SUPPORTING MEMBERS. IF THE FASTENING SYSTEM VARIES FROM THE STRUCTURAL DRAWINGS, PROVIDE LITERATURE FROM THE FASTENER AND/OR DECK MANUFACTURERS VERIFYING COMPLIANCE WITH THE MINIMUM REQUIRED DIAPHRAGM SHEAR STRENGTHS AND STIFFNESSES.
3. INDICATE DETAILS AND INSTALLATION INSTRUCTIONS FOR ALL ACCESSORIES.
4. INDICATE SEQUENCE OF INSTALLATION, WHERE CRITICAL.
5. NOTWITHSTANDING ANY OTHER REQUIREMENTS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS, SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. ONLY PRINTS WITH THE APPROVAL STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.

C. MANUFACTURER'S CERTIFICATION:
1. CERTIFY COMPLIANCE WITH STRUCTURAL CRITERIA. PUBLISHED LOAD TABLES AND LITERATURE ARE USUALLY ACCEPTABLE. PROVIDE DESIGN CALCULATIONS ON REQUEST ONLY.
2. CERTIFY COMPLIANCE WITH FINISH CRITERIA, WITH TEST REPORTS AS REQUIRED.
3. FURNISH EVIDENCE OF LISTING BY UNDERWRITERS' LABORATORY FOR THE SPECIFIED FIRE RESISTANCE RATING
4. SUBMIT, ON REQUEST ONLY, MILL TEST REPORTS AND CERTIFICATES OF COMPLIANCE FOR SHEAR CONNECTORS.
5. SUBMIT THE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH SDI DESIGN MANUAL AND AISI SPECIFICATION.

IV. PRODUCT DELIVERY, STORAGE, AND HANDLING

A. PREVENT DAMAGE TO DECK OR FINISH DURING HANDLING AND STORAGE.

B. STORE ON BLOCKING OR PLATFORMS, OFF THE GROUND, WITH ONE END ELEVATED FOR DRAINAGE.

C. PROTECT FROM RUSTING WITH WATERPROOF COVERING, OR STORAGE UNDER ROOF.

D. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR STORAGE AND PROTECTION OF DECK SURFACES.

PART 2 PRODUCTS

I. DECK DESCRIPTION AND DESIGN CRITERIA

A. TYPICAL ROOF DECK:
1. SEE PRE-ENGINEERED METAL BUILDING DRAWINGS FOR FINAL LOCATIONS AND GAGE
2. TYPE: 1-1/2 INCHES DEEP, 22 GAGE MINIMUM, WIDE RIB.
3. FINISH: GALVANIZED.
4. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
   A. 1.5B BY VULCRAFT DIVISION OF NUCOR CORP.

B. ACOUSTICAL ROOF DECK (NON-CELLULAR):
1. INSTALL ABOVE CON

II. MATERIALS AND FINISHES

A. MATERIALS: STEEL SHEET CONFORMING TO ASTM A653, GALVANIZED G60.

B. BEARING PLATES AND ANGLES: ASTM A36, FY = 36 KSI.

C. SELF-DRILLING FASTENERS: STEEL, HEX WASHER HEAD, SELF-DRILLING OR SELF-TAPPING, ZINC-COATED, CONFORMING TO ASTM C1513. PROVIDE ITW BUILDEX TEKS OR SIMILAR.

D. WELDING WASHERS: MILD STEEL, UNCOATED, 3/4 INCH OUTSIDE DIAMETER, 1/8 INCH THICK

E. ACCESSORIES: SAME MATERIAL AND FINISH AS DECK UNITS, EXCEPT THAT INTERIOR CLOSURES MAY BE OF COMPRESSIBLE MATERIAL.

F. SOUND INSULATION: GLASS FIBER TYPE. REQUIRED IN AREAS WITH ACOUSTICAL ROOF DECK.

G. FIELD TOUCH-UP PAINT:
1. FOR GALVANIZED DECK, USE ZINC CHROMATE PAINT.

H. WELDING ELECTRODES: CONFORM TO REQUIREMENTS OF AWS D1.3 USING SERIES E60 ELECTRODES, APPROPRIATE FOR THE MATERIALS BEING WELDED, WITH WELDING WASHERS AS REQUIRED.

III. FABRICATION

A. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS, WHERE POSSIBLE. WHERE UNITS ARE SINGLE OR DOUBLE SPAN, USE HEAVIER GAGE IF REQUIRED FOR STRESS OR DEFLECTION CONTROL. END LAPS (2 INCHES MINIMUM) ARE TO OCCUR OVER SUPPORTS. (END LAPS NOT REQUIRED FOR COMPOSITE FLOOR DECK.)

B. UNITS ARE TO HAVE NESTED SIDE LAPS, EXCEPT ACOUSTICAL ROOF DECK AND LONGSPAN ACOUSTICAL ROOF DECK ARE TO HAVE INTERLOCKING SIDE LAPS.

PART 3 EXECUTION

I. SURFACE CONDITIONS

A. PRIOR TO BEGINNING WORK OF THIS SECTION, VERIFY THAT THE INSTALLED WORK OF OTHER TRADES IS COMPLETE AND CORRECT TO THE EXTENT NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THIS SECTION.

B. IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT PROCEED WITH WORK AFFECTED BY THE DISCREPANCIES UNTIL THEY HAVE BEEN RESOLVED.

II. ERECTION

A. INSTALL DECKING IN ACCORDANCE WITH APPROVED PLACING DRAWINGS.

B. TOLERANCE: ALIGN ADJACENT UNITS WITHIN 1/4 INCH IN 40 FEET.

C. CONNECTION TO SUPPORTING MEMBERS: CONNECT TO SUPPORTS FROM TOP SIDE ONLY. POWDER- AND PNEUMATICALLY-DRIVEN FASTENERS ARE NOT PERMITTED WITHOUT PRIOR APPROVAL BY ENGINEER OF RECORD. WELDS WHICH BURN HOLES IN DECKING OR SUPPORTING MEMBERS WILL BE REJECTED. ERECTOR SHALL ATTACH THE DECK TO SUPPORTING STEEL AS SHOWN ON THE DRAWINGS.

ADDITIONAL MINIMUM REQUIREMENTS ARE AS FOLLOWS:

1. ROOF DECK: ATTACH ROOF DECK AT EAVE, OVERHANGS, AND PERIMETER OF ROOF BOUNDARIES & LINES OF DISCONTINUITY TO RESIST A GROSS UPLIFT OF 75 PSF ULTIMATE WIND LEVEL. WIDTH OF BOUNDARY CONNECTION STRIP SHALL BE AT LEAST 5 FEET. CONNECTIONS SHALL OCCUR AT EVERY FLUTE FOR 1-1/2 INCH ROOF DECK (THUS, 6 INCHES ON CENTER)

D. SIDELAP FASTENING: SPACING SHALL NOT EXCEED 3 FEET. BUTTON PUNCHING IS NOT PERMITTED.

E. CLOSURES: INSTALL IN DECK FLUTES OVER SUPPORTS OR OTHER CONSTRUCTION AT BUILDING PERIMETER AND AT PERIMETERS OF INTERIOR ROOMS. SET IN A TRUE EVEN LINE, FLUSH WITH CONSTRUCTION BELOW, ELIMINATING ANY SHELF OR POCKET. CLOSURES ARE TO BE ACCURATELY SHAPED AND INSTALLED, TO PROVIDE A TIGHT FIT.

F. OPENINGS: FIELD CUT SMALL OPENINGS, BEVELS, MITERS, ETC., AS REQUIRED. PROVIDE REINFORCING FOR OPENINGS WHICH INTERRUPT RIBS.

G. HANGING LOADS: DO NOT HANG ITEMS FROM THE UNDERSIDE OF METAL ROOF DECKS OR METAL CENTERING, UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. HANG ITEMS FROM CONCRETE FLOORS FORMED WITH COMPOSITE FLOOR DECK NO SOONER THAN SEVEN DAYS AFTER CONCRETE IS PLACED.

H. CONSTRUCTION LOADS: DO NOT USE DECK AS STORAGE OR WORKING PLATFORM UNTIL IT HAS BEEN PERMANENTLY ATTACHED TO SUPPORTS. ASSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE CARRYING CAPACITY OF THE DECK.

J. REPAIR AND TOUCH-UP:
1. WHERE DECK WILL BE EXPOSED TO VIEW, REMOVE AND REPLACE ANY UNITS WITH DAMAGE OR DEFECTS WHICH CANNOT BE CONCEALED BY PAINTING.
2. WHERE DECK WILL NOT BE EXPOSED TO VIEW, REPAIR ANY CUTS AND HOLES WITH PLATE OF SAME GAGE AS DECK.
3. TOUCH UP ALL DAMAGED AREAS OF FINISH, ON BOTH TOP AND BOTTOM SIDES OF DECK.

III. FIELD QUALITY CONTROL

A. SPECIAL INSPECTION SHALL INCLUDE VISUAL EXAMINATION OF DECK AND ITS ATTACHMENT TO THE SUPPORTING STRUCTURE, INCLUDING QUANTITY OF CONNECTORS AND/OR FUSION WELDS AND THE QUALITY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURE.

05 5000 - METAL FABRICATIONS

PART 1 GENERAL

1. INCLUDES SHOP FABRICATED STEEL ITEMS.

2. SUBMIT SHOP DRAWINGS THAT INDICATE PROFILES, SIZES, CONNECTION ATTCHMENTS, REINFORCING, ANCHORAGE, SIZE AND TYPE OF FASTENERS. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.

PART 2 PRODUCTS

1. MATERIALS - STEEL
   A. STEEL SECTIONS: ASTM A 36/A 36M.
   B. STEEL TUBING: ASTM A501/A501M HOT-FORMED STRUCTURAL TUBING.
   C. PLATES: ASTM A 283.
   D. PIPE: ASTM A 53/A 53M, GRADE B SCHEDULE 40, BLACK FINISH.
   E. BOLTS, NUTS, AND WASHERS: ASTM A 325 (ASTM A 325M), TYPE 1, GALVANIZED TO ASTM A 153/A (153M WHERE CONNECTING GALVANIZED COMPONENTS).
   F. WELDING MATERIALS: AWS D1.1/D1.1M; TYPE REQUIRED FOR MATERIALS BEING WELDED.
   G. SHOP AND TOUCH-UP PRIMER: SSPC-PAINT 15, COMPLYING WITH VOC LIMITATIONS OF AUTHORITIES HAVING JURISDICTION.
2. FABRICATION
   A. FIT AND SHOP ASSEMBLE ITEMS IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
   B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
   C. GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT FINISH SURFACE. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH, AND HAIRLINE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
   D. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF FABRICATIONS. FABRICATE ANCHORS AND RELATEDCOMPONENTS OF SAME MATERIAL AND FINISH AS FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
3. FABRICATED ITEMS
   A. LADDERS: STEEL; IN COMPLIANCE WITH ANSI A14.3; WITH MOUNTING BRACKETS AND ATTACHMENTS; PRIME PAINT FINISH. SEE DRAWINGS FOR DETAILS.
   B. BOLLARDS: STEEL PIPE, CONCRETE FILLED, CROWNED CAP, AS DETAILED; PRIME PAINT FINISH.
   C. LEDGE ANGLES, SHELF ANGLES, CHANNELS, AND PLATES NOT ATTACHED TO STRUCTURAL FRAMING: FOR SUPPORT OF METAL DECKING; PRIME PAINT FINISH.
   D. LINTELS: AS DETAILED; PRIME PAINT FINISH.
   E. RAILING ASSEMBLY: WALL RAILS, AND ATTACHMENTS TO RESIST LATERAL FORCE OF 75 LBS AT ANY POINTWITHOUT DAMAGE OR PERMANENT SET. TEST IN ACCORDANCE WITH ASTM E 935. PROVIDE WELDING FITTINGS TO JOIN LENGTHS, SEAL OPEN ENDS, AND CONCEAL EXPOSED MOUNTING BOLTS AND NUTS, INCLUDING BUT NOT LIMITED TO ELBOWS, T-SHAPES, SPLICE CONNECTORS, FLANGES, ESCUTCHEONS, AND WALL BRACKETS.
   F. METAL STAIRS: PROVIDE STAIRS OF THE DESIGN SPECIFIED, COMPLETE WITH LANDING PLATFORMS, VERTICAL AND HORIZONTAL SUPPORTS, RAILINGS, AND GUARDS, FABRICATED ACCURATELY FOR ANCHORAGE TO EACH OTHER AND TO BUILDING STRUCTURE.
4. FINISHES - STEEL
   A. PRIME PAINT STEEL ITEMS.
   B. PREPARE SURFACES TO BE PRIMED IN ACCORDANCE WITH SSPC-SP2.
   C. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO FINISHING.
   D. PRIME PAINTING: ONE COAT.

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

06 1100 - STRUCTURAL LUMBER, SHEATHING, AND ROUGH CARPENTRY

1. ROUGH OPENINGS OF ALL DOORS, WINDOWS, ETC. SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION.

2. CARPENTRY CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR REGARDING LOCATION AND EXTENT OF ALL WOOD BLOCKING PRIOR TO GYPSUM WALLBOARD INSTALLATION.

3. SOUND BOARD: 1/2" SOUNDSTOP BOARD AS MANUFACTURED BY CELOTEX (OR EQUAL) APPLIED ON ONE SIDE OF STUD FOR AN STC 44 RATING.

4. ALL MISCELLANEOUS WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED PER GOVERNMENTAL CODES AND REGULATIONS HAVING JURISDICTION OVER PROJECT. PROVIDE WRITTEN CERTIFICATION FOR FIRE HAZARD CLASSIFICATION FROM AN ACCREDITED INDEPENDENT LABORATORY.

5. FIRE RETARDANT TREATMENT: APPLIES TO ALL WOOD MEMBERS INCLUDING PRE-FABRICATED WOOD TRUSSES, RAFTERS, PLYWOOD SHEATHING, PLYWOOD DECKING, BLOCKING, BEARING PLATES, AND ALL OTHER WOOD CONSTRUCTION NOT EXPOSED TO WEATHER.

   A. PRODUCT TREATEMENT: DRICON OR APPROVED EQUAL. FIRE RETARDANT CHEMICAL SHALL PROVIDE PROTECTION AGAINST TERMITES AND FUNGAL DECAY, SHALL COMPLY WITH FORMULATION FR-1 OF THE CURRENT EDITION OF AWPA STANDARD P17, AND SHALL BE FREE OF HALOGENS, SULFATES, AND AMMONIUM PHOSPHATE. TREATED WOOD SHALL HAVE A FLAMESPREAD INDEX OF LESS THAN 25 WHEN TESTED IN AN EXTENDED 20 MINUTE TUNNEL TEST IN ACCORDANCE WITH ASTM E 84, NFPA 255, OR UL 723.

   B. CORROSION PROPERTIES: FIRE RETARDANT TREATED WOOD IN CONTACT WITH CARBON STEEL OR GALVANIZED STEEL SHALL EXHIBIT CORROSION RATES LESS THAN 1 MIL PER YEAR WHEN TESTED IN ACCORDANCE WITH FED. SPEC. MIL-L-19140, PARAGRAPH 4.6.5.2.

   C. ALL FASTENERS USED SHALL BE GALVANIZED AND SHALL BE COMPATIBLE FOR USE WITH FIRE TREATMENT.

   D. TESTING ON FIRE PERFORMANCE, STRENGTH, AND CORROSION PROPERTIES OF FIRE RETARDANT TREATED WOOD SHALL BE RECOGNIZED BY ISSUANCE OF A NATIONAL EVALUATION SERVICE REPORT.

   E. LUMBER TREATMENT STANDARD: COMPLY WITH AWPA STANDARD C20, CURRENT EDITION, AND APPENDIX H OF AWPA USE CATEGORY SYSTEM.

06 41 00 – CUSTOM MILLWORK

1. GENERAL PURPOSE GRADE, HIGH PRESSURE LAMINATED PLASTIC BY WILSONART, FORMICA, NEVAMAR, PIONITE OR APPROVED EQUAL ON MINIMUM 3/4" UNDERLAYMENT UNLESS OTHERWISE NOTED.

2. CABINETS: STYLE FLUSH OVERLAY.

3. QUALITY GRADE: UNLESS OTHERWISE INDICATED PROVIDE PRODUCTS OF QUALITY SPECIFIED BY AWI/AWMAC/WI (AWS) FOR CUSTOM GRADE.
   A. CABINET LOCKS: WHEN CALLED OUT USE: KEYED CYLINDER, TWO KEYS PER LOCK, MASTER KEYED, STEEL WITH CHROME FINISH.
   B. CATCHES: MAGNETIC.
   C. DRAWER SLIDES: STANDARD EXTENSION, COMMERCIAL GRADE, SIDE MOUNTED, INTEGRAL STOPS.
   D. HINGES: EUROPEAN STYLE CONCEALED SELF-CLOSING TYPE, STEEL WITH POLISHED FINISH.
4. SOLID SURFACE WHERE INDICATED FOR COUNTERTOPS AND WINDOW SILLS
   A. SS-1 MANUFACTURER: CORIAN, WILSONART, FORMICA, STYLE: STANDARD SOLID SURFACE, COLOR: TBD
   B. SS-2 MANUFACTURER: WILSONART, STYLE: QUARTZ, COLOR: TBD

06 41 16 - LAMINATED PLASTIC

1. GENERAL PURPOSE GRADE, HIGH PRESSURE LAMINATED PLASTIC BY WILSONART, FORMICA, NEVAMAR, PIONITE OR APPROVED EQUAL ON MINIMUM 3/4" UNDERLAYMENT UNLESS OTHERWISE NOTED.

06 50 00 - COLUMN COVERS

1. COLUMN COVERS SHALL BE GRG (GLASS REINFORCED GYPSUM) AS MANUFACTURED BY DECOFORM, (416) 745-4970 OR APPROVED EQUAL.

2. SUBMIT PDF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

06 62 00 - FINISH CARPENTRY

1. COMPLY WITH THE APPLICABLE PROVISIONS FOR GRADING AND WORKMANSHIP PER AWI "ARCHITECTURAL WOODWORK QUALITY STANDARDS AND GUIDE SPECIFICATIONS".

2. WINDOW STOOLS TO BE SOLID SURFACE

3. ALL MISCELLANEOUS FINISHED WOOD TRIM TO BE SOLID OAK UNLESS NOTED OTHERWISE.

4. NO FINISHED WOODWORK OR FINISHED FLOORING SHALL BE PUT IN PLACE OR STORED UNTIL GYPSUM WALLBOARD INTERIOR SURFACES ARE FINISHED AND THOROUGHLY DRY.

5. INSTALL WOOD DOORS AND FINISH HARDWARE PER MANUFACTURER'S INSTRUCTIONS.

6. INSTALL PRE-FINISHED BASE AND WALL CABINETS.

06 82 05 - FIBERGLASS REINFORCED PLASTIC (FRP)

1. FIBERGLASS REINFORCED PANELS
   A. PROVIDE FIBERGLASS REINFORCED PLASTIC (FRP) PANELS WHICH HAVE BEEN MANUFACTURED AND INSTALLED TO MAINTAIN PERFORMANCE CRITERIA STATED BY MANUFACTURER WITHOUT DEFECTS, DAMAGE AND FAILURE.
   B. SUBMIT PRODUCT DATA THAT MATERIALS MEET THE FOLLOWING STANDARDS.
      1. ASTM D 2583, ASTM D 5319, AND ASTM E 84 FOR CLASS A WALL PANELS FLAME SPREAD OF 25 OR LESS, SMOKE DEVELOPED: 450 OR LESS.
   C. ALL MATERIAL SHALL BE CLASS 1 FIRE-RATED WITH CLASS A FLAME SPREAD OF 25 OR LESS.
   D. SUBMIT FOR OWNERS ACCEPTANCE MANUFACTURER'S STANDARD WARRANTY DOCUMENT AND YEARS TERM.
   E. MANUFACTURER = KEMLITE CO., INC. PROPRIETARY PRODUCT: LASCOBOARD FLAT FRP PANELS OR APPROVED SUBSITUTE.
      1. PRODUCT CODE LBA
      2. THICKNESS 0.12 INCHES
      3. EXPOSED SURFACE: PEBBLE LIKE. BACK SURFACE: SMOOTH
      4. UNIFORM COLOR THROUGHOUT.
      5. BARCOL HARDNESS (ASTMD2583) 25 – 35. MEET USDA REQUIREMENTS.
      6. PROVIDE MANUFACTURER'S STANDARD MOLDINGS TO MATCH PANEL COLOR. OBTAIN PANELS FROM A SINGLE MANUFACTURER.
   F. INSTALL PER MANUFACTURER'S RECOMMENDED DETAILS AND REQUIREMENTS.
      1. CUT AND DRILL PANELS WITH CARBIDE TIPPED SAW BLADES WITH RECOMMENDED GAP FOR FILED AND CORNER JOINTS.
      2. SEALANT: CLEAR SILICON AS RECOMMENDED BY SEALANT MANUFACTURER.
      3. FOLLOW ADHESIVE MANUFACTURER'S RECOMMENDATIONS.
      4. CLEAN PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO OWNER'S ACCEPTANCE.

07 1113 - BITUMINOUS DAMPPROOFING

PART 1 GENERAL
1. SUMMARY
1. BITUMINOUS DAMPPROOFING AT ELEVATOR PIT WALLS, PROTECTION BOARDS, DRAINAGE PANELS.
II. RELATED DOCUMENTS
1. REFERENCE STANDARDS ASTM D41/D41M - STANDARD SPECIFICATION FOR ASPHALT PRIMER USED IN ROOFING, DAMPPROOFING, AND WATERPROOFING; CURRENT VERSION.
2. ASTM D449/D449M - STANDARD SPECIFICATION FOR ASPHALT USED IN DAMPPROOFING AND WATERPROOFING; 2003 (REAPPROVED 2014).
III. FIELD CONDITIONS
1. A. MAINTAIN AMBIENT TEMPERATURES ABOVE 40 DEGREES F FOR 24 HOURS BEFORE AND DURING APPLICATION UNTIL DAMPPROOFING HAS CURED.

PART 2 PRODUCTS
1. MANUFACTURERS:
1. KARNAK CORPORATION, MAR-FLEX SYSTEMS, INC, W.R. MEADOWS, INC:
II. COLD ASPHALTIC MATERIALS
1. BITUMEN: ASPHALT EMULSION, ASTM D3747.

2. ASPHALT PRIMER: ASTM D41/D41M, COMPATIBLE WITH SUBSTRATE.

3. SEALING MASTIC: ASPHALT ROOF CEMENT, ASTM D2822, TYPE I.
III. ACCESSORIES
1. DRAINAGE PANEL: 1/4 INCH THICK FORMED PLASTIC, HOLLOWED SANDWICH.

2. PROTECTION BOARD: 1/8 INCH THICK BIODEGRADABLE HARDBOARD.

PART 3 EXECUTION
1. EXAMINATION
1. A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.
2. B. VERIFY SUBSTRATE SURFACES ARE DURABLE, FREE OF MATTER DETRIMENTAL TO ADHESION OR APPLICATION OF DAMPPROOFING SYSTEM.
3. C. VERIFY THAT ITEMS THAT PENETRATE SURFACES TO RECEIVE DAMPPROOFING ARE SECURELY INSTALLED.
II. PREPARATION
1. A. PROTECT ADJACENT SURFACES NOT DESIGNATED TO RECEIVE DAMPPROOFING.
2. B. CLEAN AND PREPARE SURFACES TO RECEIVE DAMPPROOFING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. C. DO NOT APPLY DAMPPROOFING TO SURFACES UNACCEPTABLE TO MANUFACTURER.

07 2100 - INSULATION

1. ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2. ANY SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION. REQUEST FOR SUBSTITUTIONS MUST BE IN WRITING AND ACCOMPANIED WITH MANUFACTURER'S LITERATURE AND TESTING INFORMATION.

3. SEE WALL TYPES SCHEDULE AND WALL SECTIONS ON DRAWINGS FOR INSULATION TYPES, THICKNESS AND LOCATIONS. ALSO, SEE PARTITION PLAN FOR ADDITIONAL INSULATION REQUIREMENTS.

4. PERIMETER FOUNDATION INSULATION:
   A. RIGID, EXTRUDED, POLYSTYRENE FOAM PLASTIC, "STYROFOAM SM", INSULATION, COMPLYING WITH ASTM C272, C1518, D1621, E84 AND E96, MANUFACTURED BY DOW CHEMICAL OR AN APPROVED EQUAL IN THE FOLLOWING THICKNESS:
      1. 2" WITH AN AGED R-VALUE OF 10.0 AT 75°F MEAN TEMPERATURE.
   B. ALL PERIMETER FOUNDATION INSULATION SHALL EXTEND FROM FINISHED FLOOR DOWN A MINIMUM OF 24" BELOW FINISHED GRADE. SEE SECTIONS FOR OFFSETS IN PLANS, IF ANY.
   C. APPLY ADHESIVE TO THE BACK OF BOARDS. INSTALL IN RUNNING BOND PATTERN, BUTTING EDGES AND ENDS TIGHTLY TO ADJACENT BOARDS
   D. CUT AND FIT INSULATION TIGHTLY TO PROTRUSIONS OR INTERRUPTIONS TO THE INSULATION PLANE.
   E. IMMEDIATELY FOLLOWING APPLICATION OF BOARD INSULATION, PLACE PROTECTIVE BOARDS OVER EXPOSED INSULATION SURFACES.

5. BATT INSULATION

A. KRAFT FACED, GLASS FIBER, THERMAL BATT INSULATION, COMPLYING WITH ASTM C665, TYPE II, CLASS C, C518, E96, E136, MANUFACTURED BY OWENS CORNING OR AN APPROVED EQUAL IN THE FOLLOWING THICKNESSES:
   1. 3 1/2" WITH AN R-VALUE OF 13.0.
   2. 6 1/4" WITH AN R-VALUE OF 19.0.

B. FLAME SPREAD 25, FRK FACED GLASS FIBER, THERMAL BATT INSULATION, COMPLYING WITH ASTM C665, TYPE III, CLASS A, C518, E84 (MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT), E96, MANUFACTURED BY OWENS CORNING OR AN APPROVED EQUAL IN THE FOLLOWING THICKNESSES:
   1. 3 1/2" WITH AN R-VALUE OF 13.0.
   2. 6 1/4" WITH AN R-VALUE OF 19.0.

C. PSK – "VR" NON-METALIZED FACES, GLASS FIBER, THERMAL BATT INSULATION. FIBERGLASS BATTS SHALL COMPLY WITH ASTM C665 TYPE I, C518, E119 AND E136, (NON-COMBUSTIBLE) MANUFACTURED BY OWENS CORNING OR APPROVED EQUAL; FACED WITH A FIBERGLASS SCRIM REINFORCED WHITE POLYPROPYLENE FILM ON KRAFT USING FLAME RESISTANT ADHESIVES, COMPLYING WITH UL TEST STANDARD 723, ASTM E84 (MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT) AND E96, MANUFACTURED BY THERM-ALL INCORPORATED OR AN APPROVED EQUAL. INSTALLER TO FURNISH AND INSTALL 6" TUCK UNDER TAB. SPECIAL NOTE: 3.5" STAPLE TABS ARE NOT ACCEPTABLE. BATT THICKNESSES AS FOLLOWS:
   1. 4" WITH AN R-VALUE OF 13.0.
   2. 6" WITH AN R-VALUE OF 19.0.

6. FOAM BOARD INSULATION MATERIALS:

A. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: ASTM C578, TYPE XI; WITH THE FOLLOWING CHARACTERISTICS:
   a. COMPLIES WITH FIRE-RESISTANCE REQUIREMENTS SHOWN ON THE DRAWINGS AS PART OF AN EXTERIOR NON-LOAD-BEARING EXTERIOR WALL ASSEMBLY WHEN TESTED IN ACCORDANCE WITH NFPA 285
   b. BOARD SIZE: 48 X 96 INCH, BOARD THICKNESS: 2 INCHES. BOARD EDGES: SQUARE.
   c. WATER ABSORPTION: 4 PERCENT BY VOLUME, MAXIMUM.
   d. COMPRESSIVE RESISTANCE: 5 PSI.
   e. THERMAL RESISTANCE: R-VALUE OF 3.8 PER 1 INCH AT 75 DEGREES F MEAN TEMPERATURE

B. EXTRUDED POLYSTYRENE BOARD INSULATION: EXTRUDED POLYSTYRENE BOARD; ASTM C578; WITH EITHER NATURAL SKIN OR CUT CELL SURFACES, AND THE FOLLOWING CHARACTERISTICS:
   1. COMPLY WITH UL SYSTEMS AS NOTED ON DRAWINGS.
   2. FLAME SPREAD INDEX: 75 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
   3. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
   4. R-VALUE; 1 INCH OF MATERIAL AT 72 DEGREES F: 5, MINIMUM.
   5. COMPLIES WITH FIRE-RESISTANCE REQUIREMENTS SHOWN ON THE DRAWINGS AS PART OF AN EXTERIOR NON-LOAD-BEARING EXTERIOR WALL ASSEMBLY WHEN TESTED IN ACCORDANCE WITH NFPA 285.
   6. BOARD SIZE: 48 X 96 INCH.
   7. BOARD THICKNESS: 2 INCHES.
   8. BOARD EDGES: SQUARE.
   9. THERMAL CONDUCTIVITY (K FACTOR) AT 25 DEGREES F: 0.18.
   10. MANUFACTURERS:
      A. DOW CHEMICAL CO: "STYROFOAM SM", **WWW.DOW.COM**.
      B. OWENS CORNING CORP: WWW.OWENSCORNING.COM.
   11. SUBSTITUTIONS: SEE SECTION 01 6000 - PRODUCT REQUIREMENTS.

7. SOUND ATTENUATION BATTS:

A. UNFACED, GLASS FIBER, ACOUSTICAL, BATT INSULATION, COMPLYING WITH ASTM C665, TYPE 1, E84, E119 AND E136, MANUFACTURED BY OWENS CORNING, OR AN APPROVED EQUAL, IN THE FOLLOWING THICKNESSES:
   1. 3 1/2" IN WALL APPLICATIONS (ASSEMBLY RATING OF STC50).
   2. 6 1/4" IN WALL AND CEILING APPLICATIONS.

07 2400 - EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)

1. E.I.F.S. SHALL BE "OUTSULATION PLUS MD" BY DRYVIT SYSTEMS INC., OR APPROVED SUBSTITUTION FROM STO, PAREX, OR DEGUSSA.

2. BASE COAT SHALL BE AS RECOMMENDED BY MANUFACTURER FOR APPLICATION OVER EXTERIOR GRADE G.W.B.

3. PROVIDE TROWEL APPLIED VAPOR BARRIER, APPROVED BY EIFS MANUFACTURER BELOW EIFS.

4. RIGID INSULATION BOARD SHALL BE EXPANDED POLYSTYRENE FOAM, WHICH MEETS ASTM C-578-87a, TYPE I WITH MOISTURE PERMEABILITY RANGE OF 1.2-2.0.

5. AT RIGID INSULATION HORIZONTAL TRANSITIONS WHERE BOTTOM BOARD IS THICKER THAN THE TOP BOARD, THE EXPOSED TOP SURFACE SHALL BE TAPERED AT A RATIO OF 1:2, I.E., FOR A HORIZONTAL TRANSITION OF 1 1/2" THE VERTICAL RISE MUST BE AT LEAST 3/4".

6. STANDARD MESH SHALL BE USED FOR ALL APPLICATIONS EXCEPT AT ENTRANCES TO BUILDING TO A HEIGHT OF 8'-0" A.F.F.

7. HEAVY DUTY MESH SHALL BE USED AT ALL ENTRANCES TO A HEIGHT OF 8'-0" A.F.F.

8. CORNER MESH SHALL BE USED ON EXTERIOR COLUMNS AT ENTRANCES TO INCREASE IMPACT RESISTANCE.

9. DETAIL MESH SHALL BE USED AT ALL INSULATION THICKNESS TRANSITIONS AND AT ALL SPECIAL SHAPES INCLUDING "V" GROOVE DETAILS.

10. FINISH COAT SHALL BE 100% ACRYLIC-BASED COATING, INTEGRALLY COLORED AND TEXTURED. COLOR AS SELECTED BY ARCHITECT.

11. FINISH COAT SHALL HAVE SERIES 2000 "SAND TEXTURE".

07 25 00 - WEATHER BARRIER

1. AIR INFILTRATION/WEATHER BARRIER TO BE TYVEK FLUID APPLIED WEATHER BARRIER SYSTEM BY DUPONT, SPRAY WRAP MVP BY PROSOCO OR APPROVED SUBSTITUTION. SYSTEM TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:
   A. ELASTOMERIC SEALANT
   B. FLUID APPLIED FLASHING AND JOINT COMPOUND
   C. 6" FLEXIWRAP INSIDE/OUTSIDE CORNERS, WINDOW, AND PENETRATION FLASHINGS
   D. SURE SPAN EX FOR EXPANSION JOINT AND LARGE REPAIRS
   E. ALL JOINTS IN SHEATHING TO BE INFILLED WITH JOINT AND SEAM FILLER

2. MINIMUM 10 YEAR LIMITED WARRANTY FOR LABOR AND MATERIALS.

3. INSTALLATION TO BE PER MANUFACTURER'S SPECIFICATION.

4. TRANSITIONS AND FLASHINGS TO BE COORDINATED WITH OTHER EXTERIOR MATERIALS/SYSTEMS TO PROVIDE COMPLETE BARRIER PROTECTION.

5. ONCE WEATHER BARRIER SYSTEM HAS BEEN INSTALLED, IT MUST BE INSPECTED BY THE MANUFACTURER PRIOR TO COVERING UP WITH VENEER.

07 40 00 - ROOFING

1. ALL ROOFING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALL STATE AND LOCAL CODES.

2. ANY SUBSITITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION. REQUEST FOR SUBSTITUTIONS MUST BE IN WRITING AND ACCOMPANIED WITH MANUFACTURER'S LITERATURE AND TESTING INFORMATION.

3. MEMBRANE ROOFING
   A. OBTAIN ALL SINGLE-PLY MEMBRANE ROOFING MATERIALS AND FLASHING SYSTEMS FROM A SINGLE MANUFACTURER.
   B. ROOFING CONTRACTOR FOR THE SINGLE-PLY MEMBRANE ROOF MUST BE ON MANUFACTURER'S APPROVED INSTALLER LIST.
   C. SHOP DRAWINGS ARE REQUIRED SHOWING THE LAYOUT OF THE PREFABRICATED ROOFING PANELS, INSULATION DETAILS, FLASHING DETAILS, AND ALL MECHANICAL FASTENING SYSTEMS.
   D. MATERIALS:
      1. CONTRACTOR SHALL FURNISH AND INSTALL A 60 MIL, SINGLE–PLY MEMBRANE ROOFING SYSTEM THAT IS A POLYVINYLCHLORIDE POLYMER BLEND, WHICH IS REINFORCED WITH A HIGH-STRENGTH WEFT-INSERTED ANTI-WICKING POLYESTER SCRIM, AS MANUFACTURED BY DURO-LAST ROOFING, INC.
      2. THE MEMBRANE SHALL BE FACTORY DIELECTRICALLY WELDED INTO PRE-FABRICATED SHEETS UP TO 2,500 SQUARE FEET OR AS DETERMINED BY JOB CONDITION. THESE SHEETS SHALL BE MECHANICALLY FASTENED USING FASTENER SIZES AND PATTERNS AS DIRECTED BY THE MANUFACTURER FOR THE SPECIFIC ROOFING INSTALLATION.
      3. FIRE RESISTANCE OF THE A POLYVINYLCHLORIDE POLYMER ROOFING SYSTEM SHALL MEET UL CLASS A. ALL PACKAGING OF MEMBRANE AND INSULATION SHALL BEAR UL CLASS A LABEL.
      4. MEMBRANE COLOR SHALL BE AS SELECTED FROM MANUFACTURER'S SAMPLES.
      5. ROOF INSULATION SHALL BE POLYISOCYANURATE IN THICKNESS TO ACHIEVE MINIMUM R-33 WITH 20 PSI COMPRESSION PER ASTM D-1621, TAPERED WHERE REQUIRED, SELECTED FROM MEMBRANE ROOFING MANUFACTURER'S LIST OF APPROVED INSULATION MANUFACTURERS.
   E. THE OWNER REQUIRES THAT THE ROOF HAVE THE MANUFACTURER'S STANDARD WRITTEN 15-YEAR LIMITED WARRANTY AT NO ADDITIONAL CHARGE.

07 42 13 - METAL WALL PANEL

1. METAL WALL PANELS (EXPOSED)
   A. PRE-FORMED, 26 GAUGE STEEL VISTA SHADOW WALL PANELS AS MANUFACTURED BY A&S BUILDING SYSTEMS, CARYVILLE, TENNESSEE, OR STAR BUILDING SYSTEMS. MANUFACTURER TO INCREASE TO 24 GAUGE AS REQUIRED WHERE DICTATED BY GIRT SPACING, WIND LOADING, EAVE HEIGHTS, ETC.

2. METAL WALL PANELS (COVERED WITH E.I.F.S.)
   A. PRE-FORMED, 24 GAUGE – 1 1/2" METAL DECK (TURNED VERTICAL) WITH RUST INHIBITIVE PAINT FINISH BY VULCRAFT OR APPROVED EQUAL.

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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

SPECIFICATIONS

SP104
OF SHEETS

216118

5 4 3 2 1

D C B A

07 7123 MANUFACTURED GUTTERS AND DOWNSPOUTS

1. CONFORM TO SMACNA (ASMM) FOR SIZING COMPONENTS FOR RAINFALL INTENSITY DETERMINED BY A STORM OCCURRENCE OF 1 IN 5 YEARS.

2. MATERIALS:
   A. PRE-FINISHED GALVANIZED STEEL SHEET: ASTM A653/A653M, WITH G90/Z275 ZINC COATING; MINIMUM 0.02 INCH THICK BASE METAL.
      1. FINISH: SHOP PRE-COATED WITH MODIFIED SILICONE COATING.
      2. COLOR: AS SELECTED FROM MANUFACTURER'S STANDARD COLORS.

   B. PRE-FINISHED ALUMINUM SHEET: ASTM B209 (ASTM B209M); 0.032 INCH THICK.
      1. FINISH: PLAIN, SHOP PRE-COATED WITH MODIFIED SILICONE COATING.
      2. COLOR: AS SELECTED FROM MANUFACTURER'S STANDARD COLORS.

3. COMPONENTS
   A. GUTTERS: PROFILE AS INDICATED.
   B. DOWNSPOUTS: CDA RECTANGULAR PROFILE.
   C. ANCHORS AND SUPPORTS: PROFILED TO SUIT GUTTERS AND DOWNSPOUTS.
      1. ANCHORING DEVICES: IN ACCORDANCE WITH CDA REQUIREMENTS.
      2. GUTTER SUPPORTS: BRACKETS.
      3. DOWNSPOUT SUPPORTS: BRACKETS.

   D. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS.

07 72 00 - ROOF ACCESSORIES

1. ROOF SCUTTLES

   A. ROOF SCUTTLES (FOR SINGLE MEMBRANE ROOFS) SHALL BE STYLE "S-20" FOR LADDER ACCESS AS MANUFACTURED BY BILCO. MATERIAL SHALL BE GALVANIZED METAL WITH RED OXIDE PRIMER. METAL SHALL BE 14 GAUGE CURB AND COVER AND 22 GAUGE COVER LINER. SIZE SHALL BE 3'-0" X 2'-6". FURNISH COMPLETE WITH SAFETY POST AND PADLOCK HASP.

07 90 05 - SEALANTS

1. STANDARD SEALANTS: ACCEPTABLE MANUFACTURERS: TREMCO, SONNEBORN OR APPROVED EQUAL.

   A. EXTERIOR MASONRY, EXPANSION JOINTS, WINDOW & DOOR SEALANTS – POLYURETHANE

      1. TREMCO "DYMERIC 240"

      2. SONNEBORN "SP-2"

   B. CONCRETE SLAB JOINTS – POLYURETHANE

      1. TREMCO "THC-901"

      2. SONNEBORN "SL-2"

   C. INTERIOR PAINTING – ACRYLIC LATEX

      1. TREMCO "TREMFLEX 834"

      2. SONNEBORN "SONOLAC"

2. FIRESTOP SEALANTS: ACCEPTABLE MANUFACTURERS: TREMCO, NATIONAL GYPSUM OR APPROVED SUBSTITUTION

   A. DUCT/FIRE DAMPERS EMT PENETRATIONS, MCCABLE, AT SLEEVE PENETRATIONS, AND OTHER PENETRATIONS THROUGH GYPSUM FIRE RATED PARTITIONS AND OTHER FIRE RATED PARTITIONS OR ASSEMBLIES.

      1. (OPTION #1): TREMCO "TREMSTOP 1A" HIGH PERFORMANCE INTUMESCENT ACRYLIC FIRESTOP SEALANT.
      2. (OPTION #2): NATIONAL GYPSUM "STA-SMOOTH FS 90" JOINT COMPOUND.

   B. ALL MATERIALS SHALL HAVE INTEGRAL REDDISH/PINK COLOR TO DISTINGUISH FIRESTOP SEALANT FROM OTHER JOINT TREATMENT PRODUCTS FOR EASY JOBSITE IDENTIFICATION.

DIVISION 08 - OPENINGS

08 00 00 DOORS, WINDOWS AND GLASS

1. WOOD DOORS:

   A. INTERIOR DOORS PREMIUM HARDWOOD VENEER (FIRE RATED WHERE REQUIRED) BY MOHAWK OR APPROVED EQUAL. PROVIDE ASTRAGAL WHERE REQUIRED ON FIRE RATED DOORS.

2. HOLLOW METAL DOORS:

   A. EXTERIOR: HOLLOW METAL INSULATED DOORS SHALL BE 18 GAUGE, "IMPERIAL" SERIES BY CECO OR APPROVED EQUAL. MINIMUM U VALUE = 0.4

   B. INTERIOR: HOLLOW METAL DOORS (FIRE RATED WHERE REQUIRED) SHALL BE 18 GAUGE, "REGENT" SERIES BY CECO OR APPROVED EQUAL.

3. HOLLOW METAL FRAMES:

   A. DOOR FRAMES: 16 GAUGE HOLLOW METAL (FIRE RATED WHERE REQUIRED) SHALL BE BY CECO OR APPROVED EQUAL.

   B. WINDOW FRAMES: 16 GAUGE HOLLOW METAL (FIRE RATED WHERE REQUIRED) SHALL BE BY CECO OR APPROVED EQUAL.

   C. ALL EXTERIOR HOLLOW METAL FRAMES TO BE WELDED AT THE CORNERS, AND VOID ON THE BACKSIDE OF THE FRAME TO BE FILLED WITH EXPANDING FOAM INSULATION.

4. ALUMINUM DOORS AND STOREFRONT:

   A. BASIS OF DESIGN FOR ALUMINUM DOORS AND FRAMING TO BE KAWNEER, SERIES 451T THERMAL MULTIPLANE STOREFRONT SYSTEM, OR COMPERABLE SERIES BY YKK OR OLDCASTLE BUILDING ENVELOPE. OTHER PRODUCTS MUST BE APPROVED BY ARCHITECT BEFORE BIDDING. REINFORCE STOREFRONT SYSTEM AS REQUIRED TO COMPLY WITH STRUCTRUAL LOADS AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE.

      1. DOOR SERIES 375 MEDIUM STILE. BOTTOM STYLE OF DOOR TO BE 10" HIGH.

      2. FRAME SERIES MS-375TC MEDIUM STILE FOR EXTERIOR, NS-212 NARROW STILE FOR INTERIOR DOORS.

      3. DOOR MANUFACTURER TO PROVIDE ALL HARDWARE EXCEPT FOR CYLINDER LOCKING DEVICES (SPECIFIED UNDER DOOR HARDWARE SCHEDULE). FINISH TO MATCH FINISH ON DOORS AND FRAMES.

      4. IN VESTIBULE LOCATIONS, PROVIDE PANIC HARDWARE, WEATHERSTRIPPING AND INSULATED GLAZING AT ALL EXTERIOR DOORS. AT INTERIOR DOORS, PROVIDE STANDARD PUSH BAR/PULL HANDLE, NO LOCKSET, AND SINGLE PANE GLAZING. ALL DOORS SHALL HAVE CLOSERS AND THRESHOLDS, UNLESS NOTED OTHERWISE.

      5. ALUMINUM ENTRANCE DOORS TO OBTAIN MINIMUM U VALUE = 0.652 AND MINIMUM SHGC (SOLAR HEAT GAIN COEFFICIENT) OF 0.28. BASIS OF DESIGN IS NFRC: P-KAW-51195

      6. THE STOREFRONT ASSEMBLY MINIMUM U VALUE = 0.351 AND MINIMUM SHGC (SOLAR HEAT GAIN COEFFICIENT) OF 0.34. THE ASSEMBLY VALUES MUST BE NFRC CERTIFIED TO COMPLY WITH APPLICABLE BUILDING CODES. BASIS OF DESIGN IS NFRC: P-KAW-43055

      7. WHERE INDICATED ON THE DRAWINGS, PROVIDE KEY CARD OR NUMBER PAD DOOR ACCESS CONTROL

      8. WHERE INDICATED ON DRAWINGS, POWER ASSIST DOOR OPERATOR AND ACTIVATION BUTTONS TO BE SUPPLIED BY DOOR HARDWARE SUPPLIER.

      9. SUBMIT PDF COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS ARE TO INCLUDE THE NFRC RATING OF THE ASSEMBLIES PROVIDED FOR THE PROJECT.

5. OPERABLE WALL PARTITIONS – MANUALLY OPERATED

   A. ACCEPTABLE MANUFACTURERS: MODERNFOLD SERIES 932 OR APPROVED EQUAL

   B. PERFORMANCE SPECIFICATION

      1. PAIRED PANELS ARE BASE DESIGN.

      2. STC RATING: 47 MINIMUM PER ASTM E-90 TEST PROCEDURE.

      3. NOM. 3" THICK, IN MFG. STANDARD WIDTH, NOT TO EXCEED 8 LBS./S.F. WEIGHT.

      4. STEEL FRAME: STEEL FACE SHEETS FORMING RIGID UNITIZED PANEL.

      5. HORIZONTAL, CONTINUOUS MULTI-PLY VINYL TOP SEALS.

      6. HORIZONTAL, NOM. 2" RETRACTABLE, MECHANICALLY ACTUATED BOTTOM SEALS EXERTING DOWNWARD PRESSURE, ACTIVATED AT PANEL EDGE BY REMOVABLE HANDLE.

      7. WALL CLOSURE BY MECHANICAL EXPANDING JAMB EXTENDING FROM PANEL EDGE EXERTING PRESSURE SEAL, ACTIVATED BY REMOVABLE HANDLE.

         a. OPPOSITE-END CLOSURE TO BE BULB SEAL COMPRESSION WITHOUT THE REQUIREMENT OF A WALL JAMB.

      8. SUSPENSION SYSTEM CONSISTING OF HEAVY-DUTY ANODIZED ALUMINUM OR STEEL WITH OVERHEAD SUPPORTS OF ADJUSTABLE STEEL HANGER RODS DESIGNED FOR SIZE AND TYPE PARTITION ASSEMBLY.

         a. SUSPENSION SYSTEM SHALL FACILITATE 90-DEGREE PANEL MOVEMENT.

         b. CARRIER ASSEMBLIES OF DUAL STEEL BALL-BEARING WHEELS CONSISTING OF 2 TROLLEY ASSEMBLIES (4 WHEELS) PER PANEL.

      9. FINISH MATERIALS: FULL RANGE OF VINYL FINISHES AVAILABLE FROM MFG. STANDARD.

6. COUNTER SHUTTER:

   A. ROLLING COUNTER SHUTTER WITH CONCEALED SLIDE BOLTS EACH SIDE BY OVERHEAD DOOR OR APPROVED EQUAL. CURTAIN, HOOD, BOTTOM BAR AND GUIDES TO BE GALVANIZED STEEL, PHOSPHATE TREATED, TO RECEIVE PAINT. SHUTTER TO BE MANUALLY OPERATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

7. ROLLING SERVICE DOOR:

   A. DOORS SHALL BE G90 GALVANIZED STEEL, INTERLOCKING SECTIONS, MIN. #22 GAUGE AS MANUFACTURED BY CORNELL IRON WORKS, INC. OR APPROVED EQUAL.

   B. HOODS SHALL BE #24 GAUGE GALVANIZED STEEL WITH INTERMEDIATE 1/4" THICK SUPPORTS.

   C. DOOR AND HOOD TO BE PHOSPHATE TREATED FOR PAINT ADHESION AND PRE-FINISHED WITH A BAKED-ON LIGHT GRAY POLYESTER ENAMEL.

   D. OPERATION TO BE MANUAL WITH HAND CHAIN. PROVIDE COUNTER BALANCE ASSEMBLY TO SUPPORT CURTAIN LOAD RESULTING IN A MAXIMUM 35# MANUAL OPERATION LOAD.

   E. PROVIDE PERIMETER WEATHERSTRIPPING SEAL COMPLETE WITH VINYL STRIPS ON GUIDES. EQUIP BOTTOM BAR WITH VINYL WEATERSTRIPPING, WHICH EXTENDS INTO GUIDES.

8. OVERHEAD DOORS:

   A. EXTERIOR: INSULATED STEEL OVERHEAD DOOR, 422 SERIES WITH ISOCYANURATE INSULATION BY OVERHEAD DOOR CORPORATION OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

   B. INTERIOR: STEEL OVERHEAD DOOR, 420 SERIES BY OVERHEAD DOOR CORPORATION OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

9. GLASS:

   A. ALL EXTERIOR GLASS FOR DOORS AND WINDOWS TO BE DOUBLE PANE, ¼" SOLARBAN 60, LOW "E", INSULATING GLASS, PURGE INTERPANE SPACE WITH ARGON, ¼" CLEAR INTERIOR LITE. 1" UNIT DEPTH.
   B. ALL INSULATED AND SINGLE PANE GLASS IN DOORS AND SIDELIGHTS TO BE TEMPERED GLASS. SEE DOOR SCHEDULE.

   C. ALL NON-RATED INTERIOR GLASS TO BE 1/4" CLEAR GLASS; DOOR AND SIDELIGHT GLASS ARE TO BE TEMPERED.

   D. GLASS IN FIRE RATED DOORS, WINDOWS, AND SIDELIGHTS TO BE 1/4" FIRELITE CERAMIC FIRE GLASS BY HORDIS BROTHERS, INC. OR APPROVED EQUAL.

   E. ALL GLASS IN DOORS AND WINDOWS WHERE BOTTOM EDGE IS LESS THAN 18" ABOVE FINISH FLOOR TO BE TEMPERED GLASS.ALL GLASS IN FIXED OR OPERABLE WINDOWS OR LITES TO BE TEMPERED IF EXPOSED AREA IS WITHIN 24" OF THE VERTICAL EDGES OF A DOOR IN THE CLOSED POSITION. SUBMIT PDF COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

   F. ALL GLASS IN FIXED OR OPERABLE WINDOWS OR LITES TO BE TEMPERED IF EXPOSED AREA IS WITHIN 24" OF THE VERTICAL EDGES OF A DOOR IN THE CLOSED POSITION.

   G. SHOP DRAWINGS ARE TO INCLUDE THE NFRC RATING OF THE GLAZING AS WELL AS THE TOTAL FRAME ASSEMBLIES PROVIDED FOR THE PROJECT.

10. FINISH HARDWARE:

   A. SEE COMPLETE FINISH HARDWARE SCHEDULE ON "DOOR AND WINDOW SCHEDULE" DRAWINGS.

   B. COORDINATE KEYING OF DOORS WITH OWNER.

11. DOOR ACCESS CONTROLS:
   A. DOOR HARDWARE PROVIDER TO SUPPLY FOR HOLLOW METAL FRAMED OPENINGS :
   1. ELECTRIC STRIKE AND POWER SUPPLY FOR ALL SINGLE PANEL CARD READER ACCESS DOORS.
   2. ELECTRIFIED HINGE OR PANIC BARS AND POWER SUPPLY AT ALL DOUBLE PANEL CARD READER ACCESS DOORS.

   B. ALUMINUM STOREFRONT PROVIDER TO SUPPLY FOR ALUMINUM FRAMED OPENINGS :
   1. ELECTRIC STRIKE AND POWER SUPPLY FOR ALL SINGLE PANEL CARD READER ACCESS DOORS.
   2. ELECTRIFIED HINGE OR PANIC BARS AND POWER SUPPLY AT ALL DOUBLE PANEL CARD READER ACCESS DOORS.

   C. ACCESS CONTROL CONTRACTOR TO SUPPLY:
   1. LOW VOLTAGE WIRING FROM POWER SUPPLY TO CARD READER ACCESS DOORS.
   2. ACCESS CONTROL SPECIFIC EQUIPMENT AS NOTED IN BOXED SCHEDULE ABOVE.

12. DOOR FRAME INSTALLATION:

   A. ALL KNOCK-DOWN (HMK) FRAMES ARE TO BE SCREW ANCHORED TO THE DOOR OPENING FRAMING NEAR THE FLOOR ON BOTH SIDES OF THE DOOR FRAME AND ON BOTH JAMBS.

13. DOOR ACCESSORIES:

   A. DORMA EM SERIES ELECTROMAGNETIC DOOR HOLDER OR EQUAL. ELECTROMAGNETIC DOOR HOLDERS SHALL MEET ANSI A156.15 GRADE 1 REQUIREMENTS. WALL AND SURFACE MOUNTED UNITS. DOOR HOLDERS SHALL HAVE 24V AC OR DC AND 120V AC VOLTAGE CAPABILITY.

DIVISION 09 - FINISHES

09 21 16 - GYPSUM DRYWALL SYSTEMS

1. LOAD-BEARING METAL STUDS (SEE DIVISION 5, STRUCTURAL METAL).

2. NON-LOAD BEARING METAL STUDS:

   A. INTERIOR NON-LOAD BEARING METAL STUDS AND RUNNERS TO BE 20 GAUGE, UNLESS NOTED OTHERWISE ON DRAWINGS.

   B. INSTALL 16 GAUGE STRUCTURAL METAL STUDS ON BOTH SIDES OF ALL DOOR OPENINGS.

   C. NON-BEARING METAL PARTITIONS THAT DO NOT GO TO STRUCTURE ABOVE SHALL BE DIAGONALLY BRACED FROM TOP RUNNER TO STRUCTURE ABOVE AT A MAXIMUM 4'-0" O.C. WHEN DISTANCE IS GREATER THAN 12'-0" BETWEEN PARTITION INTERSECTIONS.

3. FURRING CHANNELS USED ON EXTERIOR WALLS FOR MOUNTING OF METAL RIBBED SIDING SHALL BE STANDARD 7/8" DWC X 18 GA GALVANIZED COLD ROLLED STEEL.

4. GYPSUM WALLBOARD FACE PANELS TAPERED WITH EASED EDGE, IN TYPES AND THICKNESSES AS FOLLOWS:

   A. STANDARD PANELS PER ASTM C 1396/C 1396M, 5/8" THICK.

   B. FIRE-RATED PANELS (TYPE "X") PER UL OR WH LISTING, 5/8" AND 3/4" THICK.

   C. MOISTURE RESISTANT PANELS PER ASTM C 1396/C 1396M, 5/8" THICK. (TYPE "X" WHERE NOTED ON DRAWINGS.)

   D. EXTERIOR GLASS-MAT PANELS PER ASTM C 1177/C 1177M, 5/8" THICK. (TYPE "X" WHERE NOTED ON DRAWINGS.)
      1. EXTERIOR PANELS TO HAVE ALL EDGES TAPED.

5. PROVIDE SUSPENDED CEILING GRILLAGE SYSTEM WHERE NOTED ON DRAWINGS.

6. PROVIDE PAPER FACED METAL CORNER BEADS, NO. 200 TRIM, CONTROL JOINTS AND MISCELLANEOUS ACCESSORIES AS REQUIRED.

7. BUGLE HEAD SCREWS, ADHESIVES AND JOINT TREATMENT PER MANUFACTURER'S RECOMMENDATIONS.

8. CONTROL JOINTS SHALL BE CONSTRUCTED A MAXIMUM OF 30'-0" O.C. IN GENERAL. CONTROL JOINTS SHALL BE LOCATED:

   A. WHERE A WALL ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL OR CEILING.

   B. WHERE CONSTRUCTION SUPPORT SYSTEMS CHANGE WITHIN THE PLANE OF THE WALL.

   C. WHERE AN EXPOSED EDGE OF GYPSUM WALLBOARD ABUTS DISSIMILAR MATERIALS, USE GOLD BOND #250 CASING BEAD OR EQUAL. CASING BEADS TO BE FINISHED WITH JOINT COMPOUND. SAME CASING BEAD AND JOINT TREATMENT IS TO BE USED ON EXPOSED WALLBOARD EDGES. "J" BEAD IS NOT ACCEPTABLE.

   D. UNLESS DETAILED OTHERWISE ON PLANS, ALL WINDOW JAMBS AND HEADS ARE TO BE WRAPPED WITH GYPSUM WALLBOARD OF THE SAME THICKNESS AND TYPE AS THE ADJACENT WALL.

09 30 00 - TILE

1. CERAMIC TILE:

   A. FLOOR: "UNGLAZED PORCELAIN CERAMICS", 8" x 8" X 5/16" or 12" x 24" X 5/16", SELECTED FROM GROUP A, PRICE GROUP (1) BY CROSSVILLE OR DAL-TILE WITH .08 DIRECT WATER SLIP RESISTANCE AND .06 SLIP RESISTANCE IN ALL OTHER AREAS. USE STANDARD SERIES HYDROMENT GROUT. TILE AND GROUT COLORS AS SELECTED BY THE ARCHITECT. USE TILE WITH ABRASIVE CONTENT FOR SHOWER RECEPTORS.

   B. WALLS: "BRIGHT AND MATTE GLAZED CERAMICS", 4 1/4" X 4 1/4" X 5/16", CUSHION EDGE COVE BASE AND THIN-SET BULLNOSE TOP, SELECTED FROM PRICE GROUP (1) BY CROSSVILLE OR DAL-TILE WITH STANDARD SERIES HYDROMENT GROUT. TILE AND GROUT COLORS AS SELECTED BY ARCHITECT.

09 51 00 - CEILING SYSTEM

1. CEILING BOARDS (NOTE: NOT ALL TYPES MAY APPLY TO THIS PROJECT. SEE "A600" SHEETS):

   A. TYPE "A": IN CLASSROOMS AND CORRIDORS, 24" X 48" X 5/8", OR 24" X 23" X 5/8" AS INDICATED ON REFLECTED CEILING PLAN, WET-FORMED MINERAL FIBER #1729, "FINE-FISSURED", WHITE, LAY-IN PANELS, CLASS "A" FIRE RATING: BY ARMSTRONG OR APPROVED EQUAL

   B. TYPE "B": IN OFFICE SUITE 24" X 24" X 3/4", #808, "SANDRIFT", WHITE, LAY-IN PANELS, CLASS "A" FIRE RATING: BY USG INTERIOR INC.

   C. TYPE "C": USED IN AUDITORIUM 24" X 24" X 7/8", "ULTIMA HIGH NRC" #1940 WHITE, LAY-IN PANELS, 0.80 NRC, 0.35 CAC, CLASS "A" FIRE RATING: BY ARMSTRONG OR APPROVED EQUAL.

   D. TYPE "D": IN KITCHEN 24" X 48" X 1/2", "GRIDSTONE" WHITE, VINYL FACE PANELS, CLASS "A" FIRE RATING: BY NATIONAL GYPSUM OR APPROVED EQUAL.

2. PROVIDE TWO (2) HOLD DOWN CLIPS PER PANEL IN ALL VESTIBULE AREAS.

3. SUSPENDED CEILING GRID SYSTEM TO BE "SNAP GRID 500" BY CHICAGO METALLIC CORPORATION, ARMSTRONG, PRELUDE 15/16, OR APPROVED EQUAL, IN ALL AREAS EXCEPT KITCHENS AND SHOWERS.

4. WALL MOLDING TO BE NO. 1435-01 BY CHICAGO METALLIC CORPORATION, ARMSTRONG NO. 7800 OR APPROVED EQUAL.

5. SUSPENDED CEILING SYSTEM IN KITCHEN AND SHOWER AREAS (WHEN APPLICABLE) TO BE ALUMINUM WITH BAKED ENAMEL PAINT FINISH.

6. CEILING CLOUD PERIMETER TRIM TO BE ARMSTRONG AXIOM CLASSIC MODEL AX8STR, WITH NECESSARY OUTSIDE AND/ OR INSIDE POSTS, SPLICES, CLIPS AND OTHER SYSTEM ACCESSORIES TO PROVIDE A COMPLETE INSTALLATION.

8",

09 65 00 - RESILIENT FLOORING – VINYL BASE

1. BASE, VINYL, TOP SET:

   A. 4" HIGH, 1/8" THICK BY JOHNSONITE OR APPROVED EQUAL.

   B. 6" HIGH, 1/8" THICK BY JOHNSONITE OR APPROVED EQUAL IN ALL TOILET ROOMS.

   C. ADHESIVE AND ACCESSORIES FOR INSTALLATION SHALL BE AS RECOMMENDED BY TOP SET BASE MANUFACTURER.

   D. COLOR AS SELECTED BY ARCHITECT.

096519 – RESILIENT TILE FLOORING – LUXURY VINYL TILE

*MANUFACTURERS AND PATTERNS ARE SUBJECT TO CHANGE. INFORMATION PROVIDED IS TO BE USED AS A BASIS OF DESIGN FOR COST PURPOSES. FINAL PATTERNS AND COLORS TO BE SELECTED BY ARCHITECT AND APPROVED BY THE OWNER. SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE SUPPLIER TO PROVE EQUAL TO SPECIFIED ITEMS.

1. LVT-1;MANUFACTURER: ARMSTRONG, STYLE: NATURAL CREATIONS, ARBORART WITH DIAMOND 10 TECHNOLOGY, SIZE: PLANK, TBD, COLOR: TBD, INSTALLATION METHOD: TBD, INSTALLATION DIRECTION: TBD

2. LVT-2: MANUFACTURER: ARMSTRONG, STYLE: NATURAL CREATIONS, ARBORART WITH DIAMOND 10 TECHNOLOGY, SIZE: PLANK, TBD, COLOR: TBD, INSTALLATION METHOD: TBD, INSTALLATION DIRECTION: TBD

3. INSTALL FLOORING AND ACCESSORIES AFTER OTHER OPERATIONS (INCLUDING PAINTING) HAVE BEEN COMPLETED.

4. ACCEPTANCE OF CONDITIONS: CAREFULLY EXAMINE ALL INSTALLATION AREAS WITH INSTALLER/APPLICATOR PRESENT, FOR COMPLIANCE WITH REQUIREMENTS AFFECTING WORK PERFORMANCE.
   A. VERIFY THAT FIELD MEASUREMENTS, PRODUCT, ADHESIVES, SUBSTRATES, SURFACES, STRUCTURAL SUPPORT, TOLERANCES, LEVELNESS, TEMPERATURE, HUMIDITY, MOISTURE CONTENT LEVEL, PH, CLEANLINESS AND OTHER CONDITIONS ARE AS REQUIRED BY THE MANUFACTURER, AND READY TO RECEIVE WORK.

5. VERIFY THAT SUBSTRATE IS CONTAMINANT-FREE, INCLUDING OLD ADHESIVES AND ABATEMENT CHEMICALS.

6. TEST SUBSTRATES AS REQUIRED BY MANUFACTURER TO VERIFY PROPER CONDITIONS EXIST.
   A. CONCRETE: CHECK FOR CONCRETE ADDITIVES SUCH AS FLY ASH, CURING COMPOUNDS, HARDENERS, OR OTHERSURFACE TREATMENTS THAT MAY PREVENT PROPER BONDING OF FLOOR COVERINGS.

   B. MOISTURE TESTING: PERFORM EITHER THE IN-SITU RELATIVE HUMIDITY (RH) TEST (ASTMF2170) OR MOISTURE VAPOR EMISSION RATE (MVER) TEST (ASTM F1869). REFER TO THEMANUFACTURER'S INSTALLATION GUIDE/MANUAL FOR THE MAXIMUM ALLOWABLE SUBSTRATE MOISTURE CONTENT. SUBSTRATES ABOVE THE MAXIMUM ALLOWABLE MOISTURE CONTENT WILLREQUIRE A MOISTURE MITIGATION SYSTEM.

   C. PERFORM ALKALINITY TESTING TO VERIFY PH LEVEL IS BETWEEN 7 TO 10 PER ASTM F710.

7. PROTECTION
   A. PROTECT MATERIALS FROM CONSTRUCTION OPERATIONS UNTIL DATE OF SUBSTANTIAL COMPLETION OR OWNER OCCUPANCY, WHICHEVER OCCURS FIRST.
   B. PROTECT FINISHED FLOOR FROM ABUSE AND DAMAGE BY USING HEAVY NON-STAINING KRAFT PAPER, DROP CLOTHS OR EQUIVALENT. USE ADDITIONAL, NON-DAMAGING PROTECTIVE MATERIALS AS NEEDED.

   2. LIGHT FOOT TRAFFIC ON A NEWLY INSTALLED FLOOR CAN BE PERMITTED AFTER 24 HOURS.

   3. KEEP HEAVY TRAFFIC AND ROLLING LOADS OFF THE NEWLY INSTALLED LVT FLOORING FOR 48 HOURS.

   4. PROTECT THE FLOOR FROM ROLLING TRAFFIC BY COVERING WITH PROTECTIVE BOARDS.

09 6723 – RESINOUS FLOORING (PU)

1. SYSTEM DESCRIPTION
   A. THE WORK SHALL CONSIST OF PREPARATION OF THE SUBSTRATE, THE FURNISHING AND APPLICATION OF A CEMENTITIOUS URETHANE BASED SELF-LEVELING SEAMLESS FLOORING SYSTEM WITH FLINTSHOT QUARTZ AGGREGATE BROADCAST AND URETHANE TOPCOAT.

   B. THE SYSTEM SHALL HAVE THE COLOR AND TEXTURE AS SPECIFIED BY THE OWNER WITH A NOMINAL THICKNESS OF 1/4 INCH. IT SHALL BE APPLIED TO THE PREPARED AREA(S) AS DEFINED IN THE PLANS STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

   C. COVE BASE TO BE APPLIED WHERE NOTED ON PLANS AND PER MANUFACTURERS STANDARD DETAILS UNLESS OTHERWISE NOTED

2. SUBMITTALS
   A. PRODUCT DATA: LATEST EDITION OF MANUFACTURER'S LITERATURE INCLUDING PERFORMANCE DATA AND INSTALLATION PROCEDURES.

   B. SAMPLES: A 3 X 3 INCH SQUARE SAMPLE OF THE PROPOSED SYSTEM. COLOR, TEXTURE, AND THICKNESS SHALL BE REPRESENTATIVE OF OVERALL APPEARANCE OF FINISHED SYSTEM SUBJECT TO NORMAL TOLERANCES.

3. PROJECT CONDITIONS:
   A. SITE REQUIREMENTS
      1. APPLICATION MAY PROCEED WHILE AIR, MATERIAL AND SUBSTRATE TEMPERATURES ARE BETWEEN 60 F AND 85 F PROVIDING THE SUBSTRATE TEMPERATURE IS ABOVE THE DEW POINT. OUTSIDE OF THIS RANGE, THE MANUFACTURER SHALL BE CONSULTED.

      2. THE RELATIVE HUMIDITY IN THE SPECIFIC LOCATION OF THE APPLICATION SHALL BE LESS THAN 85 % AND THE SURFACE TEMPERATURE SHALL BE AT LEAST 5 F ABOVE THE DEW POINT.

      3. THE APPLICATOR SHALL BE SUPPLIED WITH ADEQUATE LIGHTING EQUAL TO THE FINAL LIGHTING LEVEL DURING THE PREPARATION AND INSTALLATION OF THE SYSTEM.

   B. CONDITIONS OF NEW CONCRETE TO BE COATED WITH CEMENTITIOUS URETHANE MATERIAL.
      1. CONCRETE SHALL BE MOISTURE CURED FOR A MINIMUM OF 7 DAYS AND HAVE FULLY CURED FOR 14 DAYS IN ACCORDANCE WITH ACI-308 PRIOR TO THE APPLICATION OF THE COATING SYSTEM PENDING MOISTURE TESTS. OUTSIDE OF THESE PARAMETERS MANUFACTURER SHALL BE CONSULTED.

   C. CONCRETE SHALL HAVE A FLAT RUBBED FINISH, FLOAT OR LIGHT STEEL TROWEL FINISH (A HARD STEEL TROWEL FINISH IS NEITHER NECESSARY OR DESIRABLE).

   D. SEALERS AND CURING AGENTS SHOULD NOT TO BE USED.

   E. CONCRETE SURFACES ON GRADE SHALL HAVE BEEN CONSTRUCTED WITH A VAPOR BARRIER TO PROTECT AGAINST THE EFFECTS OF VAPOR TRANSMISSION AND POSSIBLE DELAMINATION OF THE SYSTEM.

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #2	09/10/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

SPECIFICATIONS

SP105
OF SHEETS

216118

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4. FLOORING: DUR-A-FLEX, INC, POLY-CRETE MDB (SELF LEVELING BROADCAST QUARTZ), URETHANE TOPCOAT SEAMLESS FLOORING SYSTEM, OR APPROVED EQUAL.
   A. SYSTEM MATERIALS:
      1. TOPPING: DUR-A-FLEX, INC, POLY-CRETE MD RESIN, HARDENER AND AGGREGATE.
      2. THE AGGREGATE SHALL BE DUR-A-FLEX, INC. FLINTSHOT QUARTZ AGGREGATE.
      3. TOPCOAT: DUR-A-FLEX, INC. POLY-CRETE COLOR-FAST RESIN, HARDENER AND POWDER AGGREGATE.
   B. PATCH MATERIALS
      1. SHALLOW FILL AND PATCHING: USE DUR-A-FLEX, INC. POLY-CRETE MD (UP TO ¼ INCH).
      2. DEEP FILL AND SLOPING MATERIAL (OVER ¼ INCH): USE DUR-A-FLEX, INC. POLY-CRETE WR.

5. BASIS OF DESIGN: DUR-A-FLEX, INC., 95 GOODWIN STREET, EAST HARTFORD, CT 06108. PHONE: (860) 528-9838, FAX: (860) 528-2802
   A. MANUFACTURER OF APPROVED SYSTEM SHALL BE SINGLE SOURCE AND MADE IN THE USA.

6. PREPARATION
   A. NEW AND EXISTING CONCRETE SURFACES SHALL BE FREE OF OIL, GREASE, CURING COMPOUNDS, LOOSE PARTICLES, MOSS,ALGAE GROWTH, LAITANCE, FRIABLE MATTER, DIRT, AND BITUMINOUS PRODUCTS.
   B. MOISTURE TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER AND AS FOLLOWS.
      1. PERFORM RELATIVE HUMIDITY TEST USING IN SITU PROBES, ASTM F 2170. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE A MAXIMUM 99% RELATIVE HUMIDITY LEVEL MEASUREMENT.
      2. IF THE RELATIVE HUMIDITY EXCEEDS 99% THEN THE OWNER AND/OR ENGINEER SHALL BE NOTIFIED AND ADVISED OF ADDITIONAL COST FOR THE POSSIBLE INSTALLATION OF A VAPOR MITIGATION SYSTEM THAT HAS BEEN APPROVED BY THE MANUFACTURER OR OTHER MEANS TO LOWER THE VALUE TO THE ACCEPTABLE LIMIT.
      3. IF THE VAPOR DRIVE EXCEEDS 99% RELATIVE HUMIDITY OR 20 LBS/1,000 SF/24 HRS THEN THE OWNER AND/OR ENGINEER SHALL BE NOTIFIED AND ADVISED OF ADDITIONAL COST FOR THE POSSIBLE INSTALLATION OF A VAPOR MITIGATION SYSTEM THAT HAS BEEN APPROVED BY THE MANUFACTURER OR OTHER MEANS TO LOWER THE VALUE TO THE ACCEPTABLE LIMIT.

7. MECHANICAL SURFACE PREPARATION
   A. SHOT BLAST ALL SURFACES TO RECEIVE FLOORING SYSTEM WITH A MOBILE STEEL SHOT, DUST RECYCLING MACHINE (BLASTRAC OR EQUAL). ALL SURFACE AND EMBEDDED ACCUMULATIONS OF PAINT, TOPPINGS HARDENED CONCRETE LAYERS, LAITANCE, POWER TROWEL FINISHES AND OTHER SIMILAR SURFACE CHARACTERISTICS SHALL BE COMPLETELY REMOVED LEAVING A BARE CONCRETE SURFACE HAVING A MINIMUM PROFILE OF CSP 4-5 AS DESCRIBED BY THE INTERNATIONAL CONCRETE REPAIR INSTITUTE.
   B. FLOOR AREAS INACCESSIBLE TO THE MOBILE BLAST MACHINES SHALL BE MECHANICALLY ABRADED TO THE SAME DEGREE OF CLEANLINESS, SOUNDNESS AND PROFILE USING DIAMOND GRINDERS, NEEDLE GUNS, BUSH HAMMERS, OR OTHER SUITABLE EQUIPMENT.
   C. WHEREVER A FREE EDGE WILL OCCUR, INCLUDING DOORWAYS, WALL PERIMETERS, EXPANSION JOINTS, COLUMNS, DOORWAYS, DRAINS AND EQUIPMENT PADS, A ¼ INCH DEEP BY 3/16 INCH WIDE KEYWAYS SHALL BE CUT IN.
   D. CRACKS AND JOINTS (NON-MOVING) GREATER THAN 1/4 INCH WIDE ARE TO BE CHISELED OR CHIPPED-OUT AND REPAIRED PER MANUFACTURER'S RECOMMENDATIONS.
   E. AT SPALLED OR WORN AREAS, MECHANICALLY REMOVE LOOSE OR DELAMINATED CONCRETE TO A SOUND CONCRETE AND PATCH PER MANUFACTURES RECOMMENDATIONS.

8. APPLICATION
   A. THE SYSTEM SHALL BE APPLIED IN THREE DISTINCT STEPS AS LISTED BELOW:
      1. SUBSTRATE PREPARATION
      2. TOPPING/OVERLAY APPLICATION WITH QUARTZ AGGREGATE BROADCAST.
      3. TOPCOAT APPLICATION, WITH A ANTI-SLIP AGGREGATE BROADCAST IF REQUIRED
   B. IMMEDIATELY PRIOR TO THE APPLICATION OF ANY COMPONENT OF THE SYSTEM. THE SURFACE SHALL BE DRY AND ANY REMAINING DUST OR LOOSE PARTICLES SHALL BE REMOVED USING A VACUUM OR CLEAN, DRY, OIL-FREE COMPRESSED AIR.
   C. THE HANDLING, MIXING AND ADDITION OF COMPONENTS SHALL BE PERFORMED IN A SAFE MANNER TO ACHIEVE THE DESIRED RESULTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
   D. THE SYSTEM SHALL FOLLOW THE CONTOUR OF THE SUBSTRATE UNLESS PITCHING OR OTHER LEVELING WORK HAS BEEN SPECIFIED BY THE ARCHITECT.
   E. A NEAT FINISH WITH WELL-DEFINED BOUNDARIES AND STRAIGHT EDGES SHALL BE PROVIDED BY THE APPLICATOR.

09 68 00 - CARPET

*MANUFACTURERS AND PATTERNS ARE SUBJECT TO CHANGE. INFORMATION PROVIDED IS TO BE USED AS A BASIS OF DESIGN FOR COST PURPOSES. FINAL PATTERNS AND COLORS TO BE SELECTED BY ARCHITECT AND APPROVED BY THE OWNER. SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE SUPPLIER TO PROVE EQUAL TO SPECIFIED ITEMS. ALL CARPET TO COME WITH A MINIMUM 10 YEAR WRITTEN WARRANTY.

1. CPT-1 (VESTIBULE): LEES "STEPUP MODULAR", TUFTED WITH TIP SHEARED TEXTURED LOOP, DUPONT NYLON 6,6 WITH NYLON 6,6 SCAPER YARN AND BURIGUARD SOIL RELEASE. FACE MATERIAL TO BE YARN DYED WITH DURACOLOR BY LEES STAIN RESISTANT SYSTEM. BACKING MATERIAL TO BE INTEGRATED CUSHION THERMOBOND (ICT) TILE. TOTAL WEIGHT TO BE 215.45 OZ/SQ YD. SIZE: 18"X18" MODULAR.

2. CPT-2 (STANDARD): GRAPHIC LOOP PILE, SOLUTION DYED, TYPE 6,6 NYLON, 1/10 GAUGE, .096" PILE THICKNESS, PRIMARY BACKING: SYNTHETIC, SECONDARY BACKING: ULTRABAC RE, 20 OZ. YARN WEIGHT, MINIMUM 10 YEAR WRITTEN WARRANTY, AS MANUFACTURED BY MANNINGTON (CARTHAGE 4-ULTRABAC RE) OR APPROVED SUBSTITUTION.

3. CPT-3 (STANDARD): GRAPHIC LOOP PILE, SOLUTION DYED, TYPE 6,6 NYLON, 1/10 GAUGE, .096" PILE THICKNESS, PRIMARY BACKING: SYNTHETIC, SECONDARY BACKING: ULTRABAC RE, 20 OZ. YARN WEIGHT, MINIMUM 10 YEAR WRITTEN WARRANTY, AS MANUFACTURED BY MANNINGTON (CARTHAGE 4-ULTRABAC RE) OR APPROVED SUBSTITUTION.

4. CPT-4 (PLATFORM): SOLID COLOR CUT PILE, PIECE DYED, TYPE 6,6 NYLON, 1/10 GAUGE, .203" PILE THICKNESS, WOVEN SYNTHETIC BACKING, 32 OZ. YARN WEIGHT, MINIMUM 10 YEAR WRITTEN WARRANTY, AS MANUFACTURED BY MANNINGTON (BELVEDERE v 32) OR APPROVED SUBSTITUTION. USE ON PLATFORMS ONLY UNLESS NOTED OTHERWISE.

   A. INSTALLATION: BY TRAINED AND CERTIFIED INSTALLERS PER MANUFACTURER'S RECOMMENDED ADHESIVE AND INSTALLATION SPECIFICATIONS. SEAMS TO BE PROPERLY SEALED.
   B. WARRANTY: FIFTEEN YEAR, NON-PRORATED, COMMERCIAL PROTECTION WARRANTY AGAINST WEAR, EDGE RAVEL, DELAMINATION AND PERMANENT STAIN RESISTANCE.
      1. FLAME SPREAD AND SMOKE CONTRIBUTION REQUIREMENTS SHALL MEET ALL BUILDING CODES AND LOCAL ORDINANCES HAVING JURISDICTION OVER THIS PROJECT.
      2. ALL ADHESIVES, CHEMICAL SEAM SEALERS AND ACCESSORIES FOR INSTALLATION SHALL BE AS RECOMMENDED BY THE CARPET MANUFACTURER.
      3. ALL CARPET TO BE DIRECT GLUED TO PREPARED CONCRETE OR WOOD SURFACES.

09 78 13 – STAINLESS STEEL WALL PANELS

1. BASIS OF DESIGN: IPC DOOR AND WALL PROTECTION SYSTEMS, INPRO CORPORATION, INTERNET ADDRESS: HTTP://WWW.INPROCORP.COM
   A. PROVIDE ALL STAINLESS STEEL WALL PANELS AND WALL PROTECTION FROM A SINGLE SOURCE.
2. STAINLESS STEEL WALL PANELS
   A. PROVIDE STAINLESS STEEL WALL PANEL SYSTEMS THAT INCLUDE PANELS, OUTSIDE CORNERS AND INSIDE CORNERS. PANEL SYSTEM SHALL INCLUDE STAINLESS STEEL PANELS THAT HAVE RECESSED OVERLAP JOINTS THAT MAINTAIN PANEL FLATNESS AND MINIMIZES PANEL PROTRUSION.
   B. PANEL SIZE – CUSTOM, MAXIMUM 4' X 10'
   C. PANEL THICKNESS - 18 GAUGE
   D. STAINLESS STEEL - TYPE 304
   E. STAINLESS STEEL OUTSIDE CORNERS, 2", 16 GAUGE. MAXIMUM HEIGHT 96", EDGES SHALL HAVE AN 11° TAPER, ATTACHMENT: ADHESIVE MOUNT OR SCREW MOUNT
   F. STAINLESS STEEL INSIDE CORNERS, 2" (50.8MM) X 2" (50.8MM) 16 GAUGE. MAXIMUM HEIGHT 96", EDGES SHALL HAVE AN 11° TAPER ATTACHMENT: ADHESIVE MOUNT OR SCREW MOUNT.
   G. COMPONENTS ATTACHMENT
      1. PANELS
      2. PANELS SHALL BE ADHERED WITH FIELD APPLIED HEAVY DUTY ADHESIVE.
      b. CORNER GUARDS SHALL BE ADHERED WITH FIELD APPLIED HEAVY DUTY ADHESIVE AND FOAM TAPE OR CORNER GUARDS SHALL BE ATTACHED WITH STAINLESS STEEL PHILLIPS HEAD SCREWS INTO COUNTER SUNK BEVELED MOUNTING HOLES.
      c. EDGE FINISH – EDGES SHALL BE FINISHED WITH COLOR-MATCHED CAULK.
      d. STAINLESS STEEL: PANELS AND CORNER GUARDS SHALL HAVE A NO. 4 SATIN FINISH.
      e. WALL SHALL BE COVERED FULL HEIGHT AND EXTEND PAST HOOD AS CODE REQUIRES TO ACHIEVE A COMPLIANT INSTALLATION

09 90 00 - PAINTING

1. PAINT PRIMERS:
   A. CONCRETE BLOCK FILLER: SHERWIN WILLIAMS "PREP RITE" B25W25 SERIES OR APPROVED EQUAL. TINT TO MATCH FINAL COLOR.
   B. GYPSUM WALLBOARD:
      1. ALL FOYER/NARTHEX WALLS; CORRIDORS; LARGE ASSEMBLY ROOMS; SANCTUARIES AND MULTI-MINISTRY ROOMS WILL HAVE ONE COAT OF SPRAY-PLAST WALL SURFACER [TOOL WORLD INC. (800) 331-8273] OR APPROVED SUBSTITUTION APPLIED AS A PRIMER.
      2. ALL OTHER DRYWALL SURFACE SHALL HAVE ONE COAT SHERWIN WILLIAMS "PREP RITE" B28W601 HIGHBUILD INTERIOR LATEX PRIMER/SURFACER. TINT TO MATCH FINAL COLOR.
2. PAINT FINISHES:
   A. ALL AREAS: TWO (2) COATS OF SHERWIN WILLIAMS "PROMAR 200", B20W200 SERIES, INTERIOR LATEX EG-SHEL ENAMEL OR APPROVED EQUAL.
   B. PROVIDE TWO FINISH COATS ON CONCRETE BLOCK WALLS.
3. STAIN WORK:
   A. STAIN: ONE (1) COAT OF SHERWIN WILLIAMS "WIPING STAIN", A48 SERIES OR APPROVED EQUAL.
   B. FINISH: THREE (3) COATS OF SHERWIN WILLIAMS PROMAR "E-Z" SAND SEALER/FINISH: B26VD1003 OR APPROVED EQUAL.

4. WINDOW & DOOR FRAMES: PAINTING CONTRACTOR IS RESPONSIBLE FOR CAULKING AROUND INTERIOR OF ALL WINDOW FRAMES AND DOOR FRAMES.
5. FIELD QUALITY CONTROL:
   A. ALL SURFACES TO BE INSPECTED, DEFECTS REPAIRED AND CLEANED PRIOR TO APPLICATION OF PAINT AND STAIN MATERIALS.
   B. ALL MATERIALS TO BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
   C. BEFORE STARTING PAINT OR STAIN WORK, FINISH A SMALL AREA IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS FOR EACH APPLICABLE MATERIAL, FINISH, COLOR AND WORKMANSHIP FOR ARCHITECT'S APPROVAL.
      1. MINIMUM SAMPLE AREA FOR PAINT IS 80 SQUARE FEET.
      2. STAIN SAMPLES TO BE ON NOMINAL 4" X 6" PIECES OF ACTUAL SPECIES TO RECEIVE STAIN.
   D. THE SPRAY-PLAST PRIMER MATERIALS ARE NOT TO BE WATERED DOWN IN FIELD. THE PAINTER MUST USE EQUIPMENT NECESSARY TO ACCOMMODATE CONSISTENCY OF PRIMER MATERIAL AS SHIPPED BY MANUFACTURER.
6. PAINTED WALL GRAPHICS:
   A. SEE SCOPE OF WORK SHEETS SUBMITTED WITH DRAWING BID SETS FOR PAINTED GRAPHICS ALLOWANCE TO BE INCLUDED IN PAINTING BID.

DIVISION 10 - SPECIALTIES

10 21 13 - TOILET COMPARTMENTS

1. STANDARD PARTITIONS SCOPE
1. PARTITIONS TO BE FLOOR MOUNTED AND WALL BRACED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. DOORS TO RECEIVE FULL HINGE.
3. PARTITION BETWEEN STALLS TO BE ANCHORED TO WALL WITH FULL HEIGHT BRACKET FOR PRIVACY AND STABILITY.
4. SIZES AS SHOWN ON DRAWINGS, AS MANUFACTURED BY GENERAL PARTITIONS OR APPROVED EQUAL.
5. EXISTING SPACE TO BE FIELD VERIFIED PRIOR TO THE PRODUCTION OF SHOP DRAWINGS.
6. SUBMIT PDF COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
7. STANDARD FINISH TO BE BAKED ENAMEL ON STEEL. COLOR TO BE DETERMINED BY ARCHITECT OR INTERIOR DESIGNER.

II. POWDER COATED STEEL SCOPE
1. ALL POWDER COATED TOILET PARTITIONS SHALL BE (INDICATE ONE OR MORE STYLE NUMBERS AS REQUIRED)
   A. 40, FLOOR SUPPORTED WITH HEADRAIL; AS MANUFACTURED BY GENERAL PARTITIONS MFG. CORP., ERIE, PENNSYLVANIA.
2. PANEL — DOUBLE-WALL CONSTRUCTION—SHALL BE 1IN. THICK WITH TWO SHEETS OF GALVANIZED AND BONDERIZED STEEL BONDED TOGETHER BEFORE ATTACHING DIE DRAWN MOLDING ON ALL FOUR SIDES OF PANELS. MITERED REINFORCEMENTS FUSED TO CORNERS FOR ADDED STRUCTURAL STRENGTH.
3. FILLER SHALL BE GENERAL'S RIBCORE SOUND-DEADENING INSULATION. DOORS — TO BE SAME CONSTRUCTION AS PANELS WITH GALVANIZED AND BONDERIZED STEEL.
4. HEADRAIL — TO BE 1 7/8IN. X 1 5/32IN. X 1/16IN. WITH INTEGRAL CROWN LOAFER RAIL, EXTRUDED ALUMINUM HEAT-TREATED AND ANODIZED WITH NECESSARY FITTINGS.
5. PILASTERS ARE TO BE ANCHORED TO FLOOR WITH STANDARD 3/8IN. THREADED ROD, HEX NUTS AND WASHER TO PROVIDE VERTICAL ADJUSTMENT AND NECESSARY STRENGTH.
   A. 40 SERIES - PILASTERS — SHALL BE 1 1/4IN. THICK WITH TWO SHEETS OF GALVANIZED AND BONDERIZED STEEL, BONDED BEFORE ATTACHING DIE DRAWN MOLDING TO SIDES. SAME CONSTRUCTION AS PANEL. PILASTERS ARE TO BE ANCHORED TO FLOOR WITH HEAVY GAUGE ANGLE. TOP OF PILASTERS TO BE SECURELY BRACED WITH EXTRUDED ALUMINUM HEADRAIL WITH INTEGRAL CROWN LOAFER RAIL.
6. HARDWARE — CONCEALED LATCH (NO. 2000D), COAT HOOK (NO. 6200D), CONTINUOUS HINGE, AND DOOR STOP AND KEEPER (NO. 2060D) HEAVY CAST NONFERROUS ALLOY, CHROME-PLATED.
7. FITTINGS — WALL CONNECTION BRACKETS FOR PANELS AND PILASTERS TO BE HIGH STRENGTH HEAVY CHROME PLATED. PILASTER TRIM TO BE 3IN. HIGH, .031 STAINLESS STEEL. ALL HARDWARE AND FITTINGS TO BE SECURED WITH VANDAL-PROOF SEX BOLTS OR NO. 14 SCREWS OF PROPER LENGTHS.

10 28 00 - TOILET ROOM ACCESSORIES

1. ACCEPTABLE MANUFACTURERS:
   A. BOBRICK OR APPROVED EQUAL
2. SCHEDULE (OFCI = OWNER FURNISHED CONTRACTOR INSTALLED) SEE MOUNTING HEIGHT LEGEND FOR MORE INFORMATION
   A. SEE KEYED NOTES ON PLANS FOR ADDITIONAL TOILET ACCESSORY GENERIC SPECIFICATIONS.

   T-1 AUTOMATIC PAPER TOWEL DISPENSER, OFCI (NOT USED)
   T-2 PAPER TOWEL DISPENSER, OWNER FURNISHED AND INSTALLED
   T-3 TOILET PAPER DISPENSER, OWNER FURNISHED AND INSTALLED
   T-4 SOAP DISPENSER, OWNER FURNISHED AND INSTALLED
   T-5 HAND SANITIZER DISPENSER, OWNER FURNISHED AND INSTALLED
   T-6 MOP AND BROOM HOLDER, BOBRICK B-223 LOCATE ABOVE ALL MOP SINKS
   T-7 DUAL COAT HOOK, BOBRICK B-672
   T-8 MIRROR WITH STAINLESS STEEL CHANNEL FRAME, BOBRICK B-165
   T-9 BABY CHANGING STATION, SEE BELOW
   T-10 SHOWER ROD, BOBRICK B-6107, WITH 204-1 HOOKS
   T-11 FOLDING SHOWER SEAT, BOBRICK B-5181
   T-12 GRAB BAR, BOBRICK B-6806.99 X 12, 12" HORIZONTAL PEENED FINISH
   T-13 GRAB BAR, BOBRICK B-6806 X 18, 18" VERTICAL SATIN FINISH
   T-14 GRAB BAR, BOBRICK B-6806.99 X 18, 18" VERTICAL PEENED FINISH
   T-15 GRAB BAR, BOBRICK B-6806.99 X 24, 24" HORIZONTAL PEENED FINISH
   T-16 GRAB BAR, BOBRICK B-6806 X 36, 36" HORIZONTAL SATIN FINISH
   T-17 GRAB BAR, BOBRICK B-6806 X 42, 42" HORIZONTAL SATIN FINISH
   T-18 RECESSED PAPER TOWEL DISPENSER AND TRASH COMBINATION UNIT BOBRICK B-3940
   T-20 SHOWER ROD, BOBRICK B-6107, WITH 204-1 HOOKS, SHOWER CURTAIN, BOBRICK 204-2

   SEE KEYED NOTES ON PLANS FOR ADDITIONAL TOILET ACCESSORY GENERIC SPECIFICATIONS.
   B. KOALA HORIZONTAL BABY CHANGING TABLE BY KOALA BEAR KARE, KOALA CORP., SURFACE MOUNTED, COMPLIES WITH ADA REGULATIONS, CHILD PROTECTION STRAP, 22" HIGH X 36" WIDE X 4" DEEP (CLOSED) OR 20" (OPENED).
   C. COUNTERTOP WASTE RING: 6" WASTE HOLE WITH OPENING CAPPED WITH MOCKETT POLISHED STAINLESS-STEEL RING - CAT. NO. MQ-TMIPSS

10 30 00 - VENTLESS FIREPLACE AND SURROUND

1. FIREPLACE:
   A. THREE SIDED, VENT-FREE ROOM HEATER, MODEL: EMPIRE BRECKENRIDGE VENTLESS PENINSULA FIREBOX WITH VENTLESS GAS LOG SET.

10 44 00 - FIRE PROTECTION SPECIALTIES

1. TYPE 1: PROVIDE AND INSTALL STANDARD WALL BRACKET MOUNTED 2A-10BC-ABC DRY CHEMICAL FIRE EXTINGUISHER. VERIFY SIZE AND TYPE OF FIRE EXTINGUISHER PRIOR TO ORDERING.
2. TYPE 2: PROVIDE AND INSTALL FIRE EXTINGUISHER CABINET, "ARCHITECTURAL SERIES" MODEL 2409-5R, SEMI-RECESSED, BY LARSEN'S MANUFACTURING COMPANY OR APPROVED EQUAL WITH A 2A-10BC-ABC DRY CHEMICAL FIRE EXTINGUISHER (VERIFY SIZE AND TYPE OF FIRE EXTINGUISHER WITH OWNER PRIOR TO ORDERING CABINET.) MOUNT FLOOR OF CABINET AT 3'-0" A.F.F TO BOTTOM.
3. TYPE 3: PROVIDE AND INSTALL FIRE EXTINGUISHER CABINET, ARCHITECTURAL SERIES MODEL FS-2409-R3, ONE HOUR FIRE RATED, SEMI-RECESSED WITH BREAK GLASS AND LOCK BY LARSEN'S MFG. CO. OR EQUAL BY U.L. INDUSTRIES FOR 2A-10BC, ABC DRY CHEMICAL FIRE EXTINGUISHER (VERIFY SIZE AND TYPE OF FIRE EXTINGUISHER WITH OWNER PRIOR TO ORDERING CABINET.) MOUNT FLOOR OF CABINET AT 3'-0" A.F.F. TO BOTTOM.
4. TYPE 4: PROVIDE AND INSTALL STANDARD MODEL NO. 1007 WALL BRACKET MOUNTED 2A:1B:C:K WET CHEMICAL FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY OR APPROVED EQUAL.
5. SOLID DOOR TO BE USED IN MULTI-PURPOSE ACTIVITY ROOMS AND FULL ACRYLIC PANEL IN OTHER LOCATIONS.

10 55 00 - SINGLE ENTRY FIBERGLASS BAPTISTRY

1. BASIS OF DESIGN IS AMERICAN STEEPLES INC, SINGLE ENTRY BAPTISTRY, MODEL #421 OR APPROVED EQUAL.
2. PROVIDE BAPTISTRY HEATER AND CONTROL SYSTEM. PROVIDE ONE TOUCH AUTOMATIC DRAIN, FILL AND WATER LEVEL SYSTEM.
3. BASIS OF DESIGN IS HYDROQUIP (OR APPROVED EQUAL):
   A. 48-0140P-K WATER FILL/LEVEL KIT
   B. 48-0141-K DRAIN CONTROL KIT
   C. 34-0038D25-D REMOTE CONTROL KIT
4. PROVIDE CUSTOM WALK ON INSULATED BAPTISTRY COVER
   A. MANUFACTURER BASIS OF DESIGN IS BY STAGERIGHT OR BY CHURCHPRODUCTS (OR APPROVED EQUAL)
   B. CLOSE ATTENTION SHOULD BE PAID TO WEIGHT LIMITATIONS FOR THE COVERS AS LISTED BY THE MANUFACTURER, AND COVER AND FINISH SELECTED SHOULD MATCH OWNER REQUIREMENTS
5. PROVIDE REMOVEABLE STAINLESS STEEL BAPTISTY RAILING

DIVISION 13 - SPECIAL CONSTRUCTION

13 34 19 - PRE-ENGINEERED METAL BUILDINGS

1. PRE-ENGINEERED STEEL BUILDING MANUFACTURER SHALL SUBMIT STRUCTURE AND ERECTION DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND. DOCUMENTS SUBMITTED SHALL CONTAIN THE FOLLOWING:
   A. DESIGN LOADS AND APPLICABLE LOAD COMBINATIONS SHALL BE BASED UPON THE 2018 INTERNATIONAL BUILDING CODE OR APPLICABLE REFERENCED STANDARDS SUCH AS ASCE7-16.
   B. DESIGN OF STRUCTURAL MEMBERS AND BOLTED OR WELDED CONNECTIONS SHALL COMPLY WITH THE AISC STANDARDS REFERENCED IN SECTION 051200-STRUCTURAL STEEL. DESIGN OF COLD-FORMED STEEL MEMBERS SUCH AS ZEE OR CEE SHAPES SHALL COMPLY WITH APPLICABLE AISI STANDARDS.
   C. DESIGN CALCULATIONS INCLUDING MEMBER SIZES, CONNECTIONS, AND ANCHOR BOLTS, BEARING THE SEAL OF THE PROFESSIONAL ENGINEER.
   D. FRAME DRIFT LIMITS NOT LESS THAN H/400 FOR WIND LOADS BASED ON A 10 YEAR LOW MEAN RECURRENCE INTERVAL (MRI). OR, FOR SEISMIC, H/50.
   E. DEFLECTION LIMITS FOR GRAVITY MEMBERS AND HORIZONTAL WALL GIRTS. REFER TO THE PEMB SERIES DRAWINGS FOR PROJECT SPECIFIC DEFLECTION LIMITS.
   F. SIZE AND STRESS GRADE OF STEEL USED.
   G. RATED LOAD CAPACITY OF CONNECTIONS.
   H. FABRICATION DETAILS INDICATING LOCATION OF CONNECTION.
   I. SIZES AND LOCATIONS OF BEAMS, GIRDER, COLUMNS, BASE PLATES, PURLINS, GIRTS, PORTAL FRAMES, AND WIND BRACING.
   J. PITCH, SPAN AND SPACING OF ALL FRAMING.
   K. DIMENSIONS.
   L. CAMBER, IF PROVIDED.
   M. ALL SHOP AND ERECTION DRAWINGS TO BE REFERENCED TO STRUCTURAL GRID SHOWN ON THE DRAWINGS.
   N. HANDLING AND ERECTION INSTRUCTIONS.
2. FAILURE TO SUBMIT THE REQUIRED DATA CONSTITUTES AMPLE REASON FOR REJECTION OF SHOP DRAWINGS.
3. PRE-ENGINEERED METAL BUILDING DRAWINGS AND DESIGN DATA TO BE SUBMITTED TO GOVERNING AUTHORITIES WHEN RECEIVED FROM MANUFACTURER.
4. METAL BUILDING SUPPLIER SHALL DESIGN, DETAIL, AND PROVIDE FRAMING SUPPORT FOR ROOF TOP MECHANICAL UNITS AND ALL RELATED OPENINGS IN THE ROOF, LIGHT BARS, AUDIO-VISUAL SPEAKER CLUSTERS, STAGE CURTAIN, LARGE HEAVY DUCTS OR SPRINKLER LINES, ETC., COORDINATE OPENING SIZES, LOCATION AND EQUIPMENT WEIGHTS WITH APPROPRIATE CONTRACTORS.
5. SEE DIVISION 7 FOR METAL WALL PANELS.

DIVISION 14 - CONVEYING EQUIPMENT

14 40 00 - HANDICAPPED LIFT

1. WHEELCHAIR LIFT, MINIMUM 750 POUND CAPACITY, MODEL MULTILIFT BY SAVARIA. PROVIDE LIFT WITH TOP AND BOTTOM LANDING GATES AND ALL OTHER CODE COMPLIANT REQUIRED ACCESSORIES INCLUDING INTERLOCK DEVICES.

SECTION 13 48 13
MANUFACTURED SOUND AND VIBRATION CONTROL COMPONENTS

PART 1 - GENERAL
1.1 - SUMMARY
   A. SECTION INCLUDES: VIBRATION ABSORPTION MATERIAL. INSTALLED IN AREAS DETERMINED TO NEED IT BY ACOUSTICIAN.
1.2 - REFERENCES
   A. GENERAL: STANDARDS LISTED BY REFERENCE, AND ARE IDENTIFIED BY ISSUING AUTHORITY, AUTHORITY ABBREVIATION, DESIGNATION NUMBER OR TITLE BY ISSUING AUTHORITY.
   B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
      1. ASTM E84 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
      2. ASTM E90-02 STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS.
1.3 - SYSTEM DESCRIPTION
   A. DESIGN REQUIREMENTS: PROVIDE PRODUCTS AND SYSTEMS THAT HAVE BEEN MANUFACTURED, FABRICATED AND INSTALLED TO MEET THE FOLLOWING CRITERIA:
      1. INSTALL GREEN GLUE AT RATE OF ***2 TUBES/32SF***
1.4 - SUBMITTALS
   A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.
1.5 - QUALITY ASSURANCE
   A. INSTALLER QUALIFICATIONS: UTILIZE AN INSTALLER WITH EXPERIENCE WITH SIMILAR PROJECTS.
   B. MATERIALS QUALIFICATIONS: PROVIDE ASTM TEST REPORTS FROM INDEPENDENT LABORATORIES WITH NVLAP CERTIFICATION OF STANDARDS COMPLIANCE, DOCUMENTING PRODUCT PERFORMANCE SPECIFIED FOR:
      1. ACOUSTICAL PROPERTIES
      2. PHYSICAL PROPERTIES
      3. FIRE-RELATED PROPERTIES
   C. RECEIVING, STORAGE AND HANDLING
      1. VERIFY THE QUANTITY AND CONDITION OF MATERIALS RECEIVED.
      2. PROVIDE SECURE AREA FOR STORAGE.
      3. KEEP MATERIAL FROM FREEZING, KEEP ABOVE 40 DEGREES F.
   D. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

PART 2 - PRODUCTS
2.1 - MANUFACTURERS
   A. MANUFACTURER: THE GREEN GLUE COMPANY (OR APPROVED EQUAL)
2.2 - MATERIALS
   A. PROVIDE GREEN GLUE VISCOELASTIC DAMPING COMPOUND
   B. PHYSICAL PROPERTIES:
      1. ACTIVE CONTENT: 68% +/-5%
      2. WORKING TIME: 30 MINUTES AT ROOM TEMPERATURE
      3. VISCOSITY: LIGHT PASTE 65,000 CPD
      4. COLOR: GREEN
      5. VOC: >2 G/L
      6. FLASH POINT: >200 DEGREES F
      7. APPLICATION TEMPERATURE: 40 TO 90 DEGREES F
   C. FIRE-RELATED PROPERTIES:
      1. PRODUCT IS ABLE TO BE INSERTED INTO FIRE-RATED ASSEMBLY PER THEINTERNATIONAL BUILDING CODE.

PART 3 - EXECUTION
3.1 - EXAMINATION
   A. VERIFICATION OF SITE CONDITIONS
      1. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
   2. DO NOT BEGIN IF ROOM TEMPERATURE IS BELOW FREEZING.
3.2 - PREPARATION
   A. CLEAN SURFACES THOROUGHLY BEFORE INSTALLATION.
   B. FOLLOW THE MANUFACTURER'S GUIDELINES FOR PREPARATION AND INSTALLATION.
3.3 - GENERAL MANUFACTURER'S INSTRUCTIONS
   A. REFER TO AND COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   B. GREEN GLUE ALLOWS FOR 30 MINUTES OF WORK TIME, HOWEVER, ASSEMBLE THE PANELS AS SOON AS POSSIBLE.
   C. GREEN GLUE WILL REACH OPTIMAL PERFORMANCE IN 30 DAYS AFTER ASSEMBLY.
   D. CLEANUP WITH SOAP AND WATER WHILE GLUE IS WET.
   E. GREEN GLUE CONTAINS NO HAZARDOUS MATERIALS. DISPOSE OF EMPTY CONTAINERS AS YOU WOULD ANY BUILDING MATERIAL.
3.4 - INSTRUCTIONS FOR USING GREEN GLUE WITH DRYWALL
   A. CONSTRUCT STANDARD WALL FRAMING.
   B. INSTALL THE FIRST STANDARD LAYER OF DRYWALL AS NORMAL.
   C. REMOVE ANY DUST OR DEBRIS FROM DRYWALL SURFACES TO BE GLUED.
   D. APPLY PRESCRIBED QUANTITY OF GREEN GLUE IN A RANDOM PATTERN TO THE BACK OF THESECOND LAYER OF DRYWALL.
   E. ASSEMBLE THE COATED DRYWALL LAYER TO THE FIRST LAYER AND SCREW INTO PLACE AS NORMAL.
      1. USE STANDARD DRYWALL SCREWS.
      2. SCREW THE SECOND LAYER INTO THE WALL STUDS.
      3. SCREW SPACING ACCORDING TO LOCAL BUILDING CODE.
   F. SEAL THE ASSEMBLY WITH CAULK OR SEALANT.
      1. SEAL THE INTERSECTION OF THE WALL AND FLOOR.
      2. SEAL ANY GAPS BETWEEN WALLS AND CEILING.
      3. SEAL THE ELECTRICAL BOXES.
   G. DRYWALL CAN BE FINISHED IMMEDIATELY AFTER WALL ASSEMBLY
3.5 - PROTECTION
   A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.
   B. REPAIR OR REPLACE ANY MECHANICAL DAMAGE OR DEFICIENCIES BEFORE SUBSTANTIAL COMPLETION.

DIVISION 14 - CONVEYING EQUIPMENT

14 40 00 - HANDICAPPED LIFT

1. WHEELCHAIR LIFT, MINIMUM 750 POUND CAPACITY, MODEL MULTILIFT BY SAVARIA. PROVIDE LIFT WITH TOP AND BOTTOM LANDING GATES AND ALL OTHER CODE COMPLIANT REQUIRED ACCESSORIES INCLUDING INTERLOCK DEVICES.

The McKnight Group
Leaders in Innovative Church Design and Building
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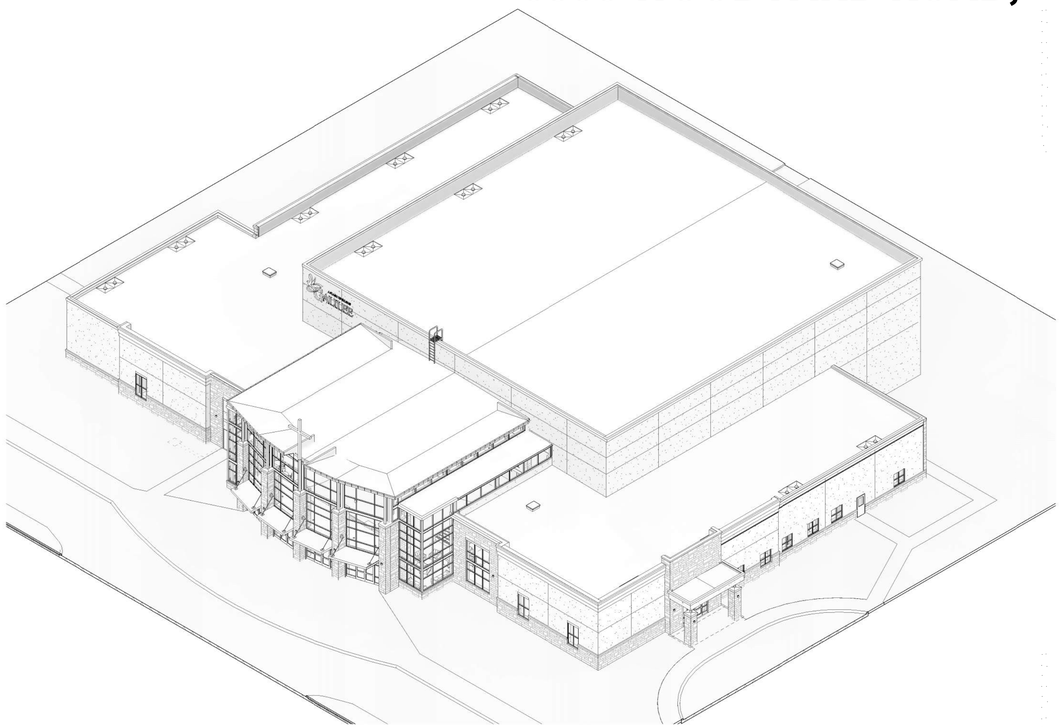
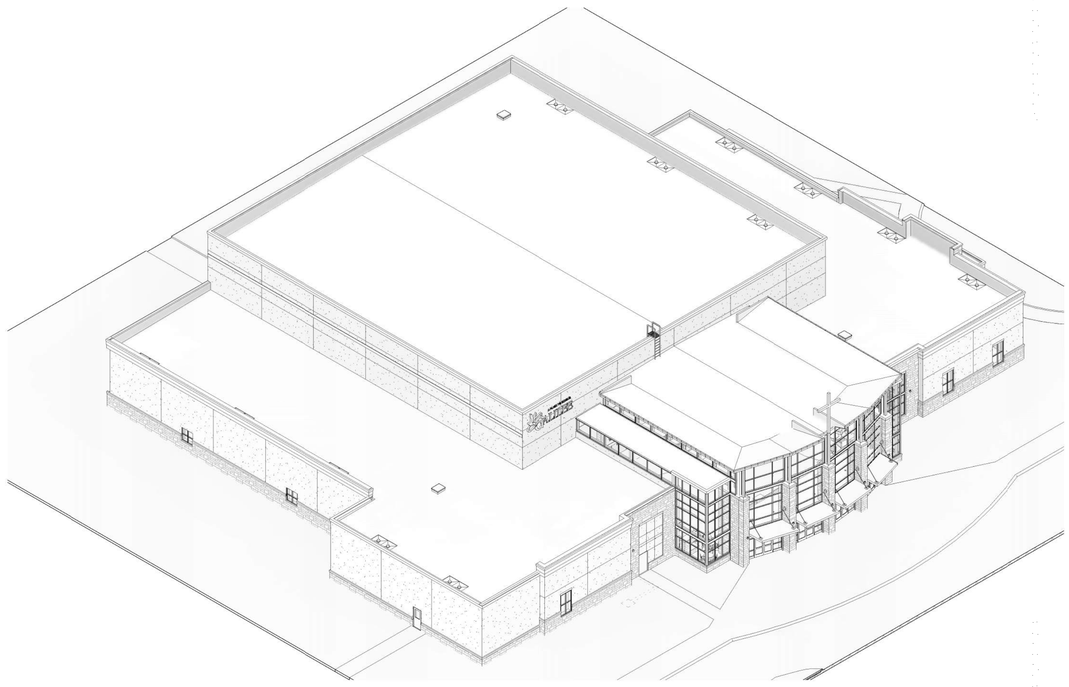
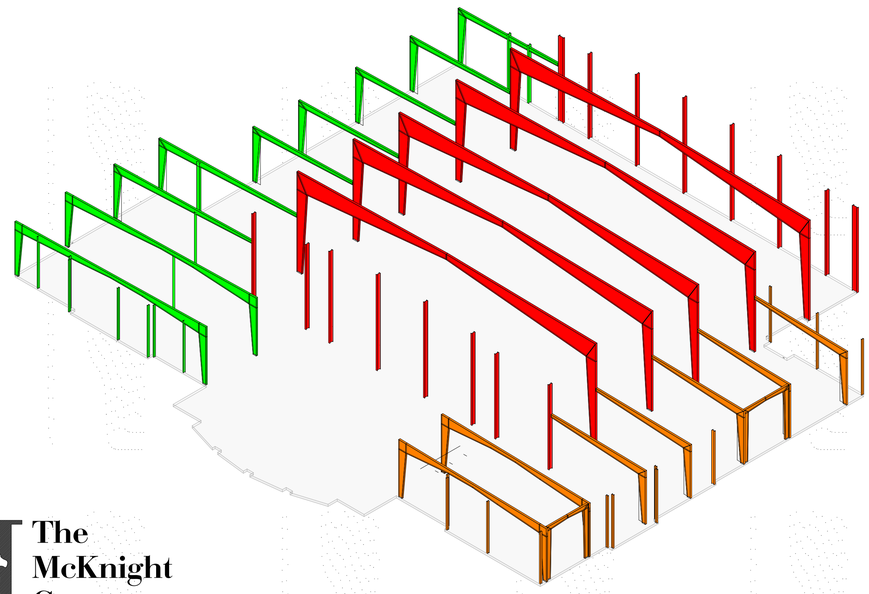
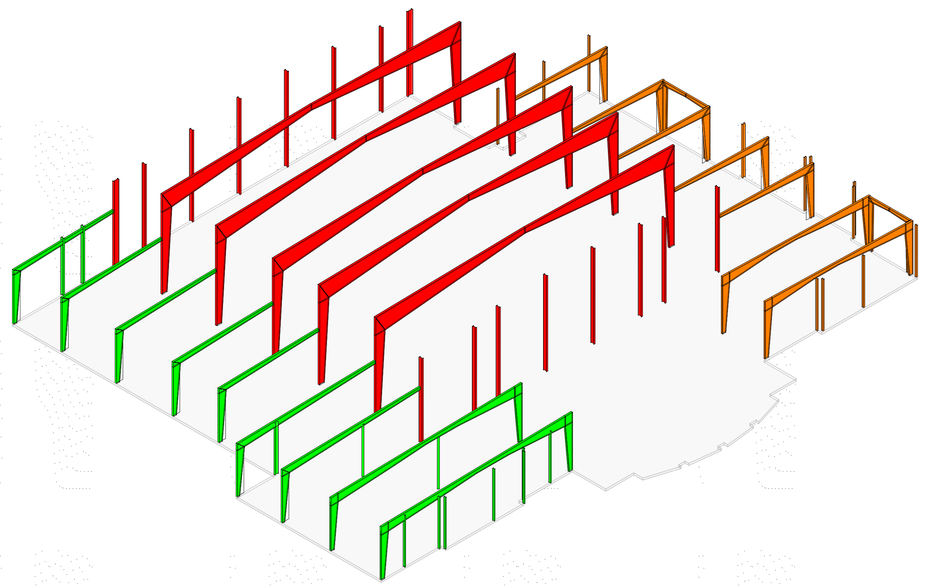
GALILEE BAPTIST CHURCH

6300 WOODYARD ROAD, UPPER MARLBORO, MD 20772









The McKnight Group

McKnight & Hosterman Architects,

3351 McDowell Road P.O. Box 370 Grove City, Ohio 43123 Phone (614) 875-1655

COMM. NO. 216118

CODED NOTES - PEMB

1 CURTAIN LEG - 6' @ 17 plf = 100LB TOTAL
2 LIGHT BAR; APPROX WEIGHT 30 PLF (DESIGN ONLY) 46' LONG = 1,380LB TOTAL
3 X-BRACING PROPOSED FOR THIS FRAME
4 PORTAL FRAME PROPOSED FOR THIS BAY
5 CHOIR MONITOR SPEAKER -50LB (2 POINT LOADS)
6 SPEAKER ARRAY - 250LB (2 POINT LOADS)
7 SUBWOOFER ARRAY - 300LB (2 POINT LOADS)
8 PROJECTOR - 100LB POINT LOAD
9 OPERABLE PARTITION 9'-0" HIGH (8LB/SF = 72LBS/ LF)
10 PIPE BATTON - 35' @ 25 plf = 750LB TOTAL
11 PROVIDE NON-TAPERED "SUPERMARKET" COLUMNS FOR THIS MAINFRAME
12 WALLS IN THIS AREA WITH LOADS THAT ARE DIRECTED INTO THE PEMB FRAME. SEE STRUCTURAL DRAWINGS FOR LOADS BEING TRANSFERRED TO THE PEMB FRAME
13 MEMBRANE ROOF OVER RIGID INSULATION OVER METAL DECK 3/8"/1'-0" SLOPE
14 ROOF IN THIS AREA WITH LOADS THAT ARE DIRECTED INTO THE PEMB FRAME. SEE STRUCTURAL DRAWINGS FOR LOADS BEING TRANSFERRED TO THE PEMB STRUCTURE
15 ROOF TOP UNIT ABOVE, LOADS AS INDICATED
16 ROOF ACCESS HATCH - 36" X 30"
17 SIGNAGE BY OTHERS
18 TRADITIONALLY FRAMED PORTION OF BUILDING IN THIS AREA, SEE STRUCTURAL DRAWINGS FOR LOADS BEING TRANSFERRED TO THE PEMB STRUCTURE
19 OVERHEAD SECTIONAL DOOR BY OTHERS, SIZED AS INDICATED
20 MAN DOOR BY OTHERS, SIZED AS INDICATED
21 8" OUTSET WALL GIRTS. PEMB FINISH IS EIFS OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), WEIGHT 15 PSF, MAX DEFLECT L/240
22 8" OUTSET WALL GIRTS, STARTING AT 21'-1". PEMB FINISH IS EIFS OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), WEIGHT 15 PSF, MAX DEFLECT L/240
23 8" OUTSET WALL GIRTS, STARTING AT 21-6". PEMB FINISH IS EIFS OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), WEIGHT 15 PSF, MAX DEFLECT L/240
24 8" OUTSET WALL GIRTS, STARTING AT 100"-0". PEMB FINISH IS CULTURED STONE VENEER OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), MAX DEFLECT L/360
25 8" OUTSET WALL GIRTS, STARTING AT 100-0". PEMB FINISH IS 1 1/2" METAL WALL PANELS, MAX DEFLECT L/240
26 SPEAKER ARRAY - 350LB (2 POINT LOADS)
27 LIGHT BAR; APPROX WEIGHT 30 PLF (DESIGN ONLY) 86' LONG = 2,580LB TOTAL
28 LIGHT BAR; APPROX WEIGHT 30 PLF (DESIGN ONLY) 48' LONG = 1,440LB TOTAL
29 LIGHT BAR; APPROX WEIGHT 30 PLF (DESIGN ONLY) 60' LONG = 1,800LB TOTAL

GENERAL NOTES

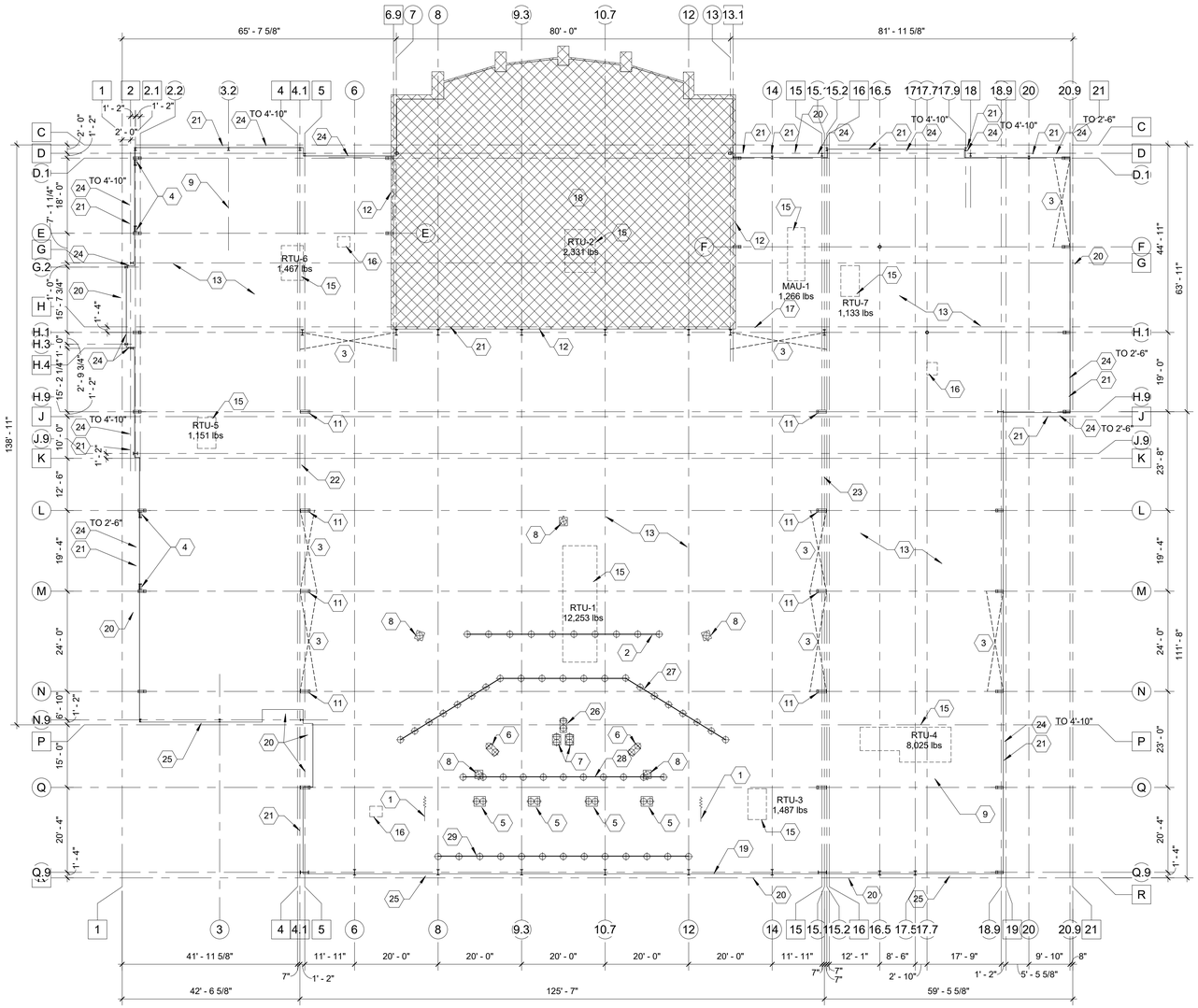
A. ALL WALL CONSTRUCTION TO BE GIRTS, U.N.O.
B. ALL END WALL COLUMNS TO BE STRAIGHT, U.N.O.
C. ALL MAINFRAMES TO BE TAPERED COLUMNS, U.N.O.
D. ALL PURLINS ASSUMED TO BE MAX. 10".
E. FIRST GIRT TO BE "C" GIRT, TOES UP, U.N.O.
F. AT FRAMED WINDOW OPENINGS, BOTTOM GIRT TO BE TOES DOWN.
G. ALL CHANNELS AT TOP OF PARAPET WALLS TO BE TOES DOWN, U.N.O.
H. X-BRACING AND PORTAL FRAME LOCATIONS SHALL BE AS SHOWN ON PLANS. IF ADDITIONAL FRAMES OR BRACING ARE REQUIRED OR THEIR LOCATIONS CHANGED, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND CONFLICT RESOLVED BEFORE FINALIZING DESIGN.
I. PORTAL FRAMES SHALL BE ATTACHED DIRECTLY TO THE MAINFRAME AND HELD 6" A.F.F.
J. NO FLANGE BRACING BELOW 15'-0".

THE LOCATION AND ORIENTATION OF THE METAL BUILDING COLUMNS AS SHOWN ON THIS PLAN HAVE BEEN CAREFULLY CONSIDERED AND CURRENTLY WORK WITH THE ARCHITECTURAL AND STRUCTURAL DESIGN. ANY CHANGES MAY RESULT IN A REDESIGN OF THE STRUCTURE AND A CHANGE IN LAYOUT OF THE ARCHITECTURE. THEREFORE, IF THE METAL BUILDING DESIGNER REQUIRES A CHANGE FROM THIS SET OF DRAWINGS, PLEASE CALL THE MCKNIGHT GROUP AT (614) 875-1689. FAILURE TO ADDRESS CHANGES EARLY IN THE PROCESS MAY RESULT IN REJECTION OF THE METAL BUILDING DESIGN.

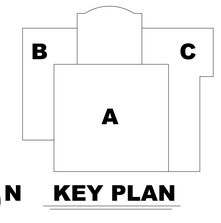
NOTE: PRE-ENGINEERED METAL BUILDING WAS DESIGNED PER CECO METAL BUILDING MANUFACTURER'S SPECIFICATIONS. SHOULD ANOTHER MANUFACTURER BE SELECTED FOR THIS PROJECT, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (GC) TO MAKE ALL NECESSARY ADJUSTMENTS IN THE FIELD TO ACCOMODATE ANY/ALL DIFFERENCES. ANY ADDITIONAL DRAWINGS THAT ARE REQUESTED BY THE GC TO AID IN THIS PROCESS SHALL COME AT THE EXPENSE OF THE GC, PAID TO THE ARCHITECT.

PEMB DESIGN LOADS -

1. ROOF LIVE LOADS
   a. MINIMUM ROOF LIVE LOAD (W/ REDUCTIONS) = 20PSF (reducible)
   b. DESIGN ROOF LIVE LOAD = 30 PSF
2. ROOF SNOW DESIGN PARAMETERS
   a. GROUND SNOW LOAD Pg = 35 PSF
   b. FLAT-ROOF SNOW LOAD Pf = 27 PSF
   c. LOW SLOPE ROOF LOAD Pm = 22 PSF
   d. SNOW LOAD IMPORTANCE FACTOR Is = 1.1
   e. SNOW EXPOSURE FACTOR, Ce = 1.0
   f. THERMAL FACTOR, Ct (FOR MAIN ROOF) = 1.0
   g. THERMAL FACTOR, Ct (FOR CANOPIES) = 1.2
   h. ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING
3. WIND LOAD PARAMETER (ASCE 7-16)
   a. RISK CATEGORY III
   b. BASIC WIND SPEED (V) = 120 MPH
   c. BASIC WIND SPEED ASD (V-ASD) = 93 MPH
   d. WIND EXPOSURE CATEGORY = C
   e. INTERNAL PRESSURE COEFFICIENT, (GCpi) = + / - 0.18
4. SEISMIC DESIGN PARAMETERS
   a. SEISMIC RISK CATEGORY = III
   b. SITE CLASS = D
   c. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, Ss = 0.140
   d. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, S1 = 0.052
   e. SEISMIC LOAD IMPORTANCE FACTOR, Ie = 1.25
   f. SEISMIC DESIGN CATEGORY = B
   g. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
   h. SEISMIC-FORCE-RESISTING SYSTEM R = 3 (NO SPECIAL SEISMIC DETAILING REQUIRED)
   i. DESIGN BASE SHEAR = 25 KIPS
5. COLLATERAL DEAD LOAD
   (SPRINKLERS, DUCTS, LIGHTS, CEILINGS) 8 PSF
6. DEFLECTION LIMITATIONS:
   a. FRAME DEFLECTION H/300
   b. GIRT DEFLECTION (WIND)
      EIFS AND STONE = L/360
   c. ROOF DEFLECTION
      i. DL = L/180
      ii. DL + LL = L/240



1 PEMB PLAN
1/16" = 1'-0"



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☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
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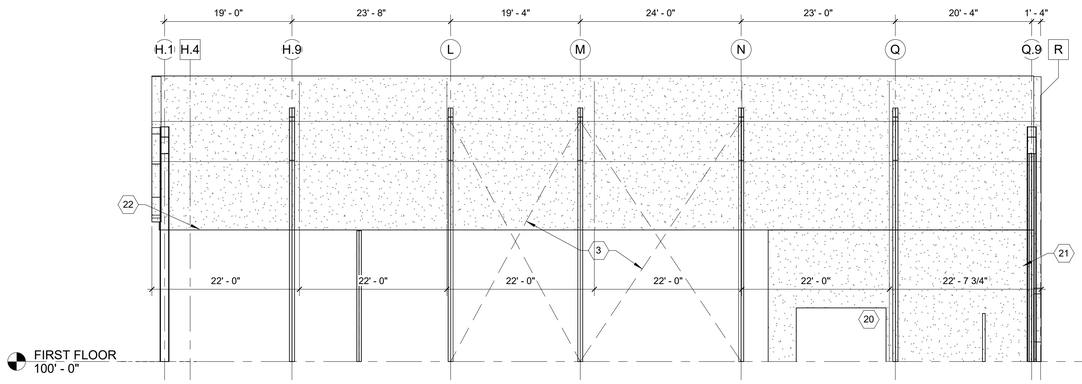
REVISIONS/ADDENDUMS

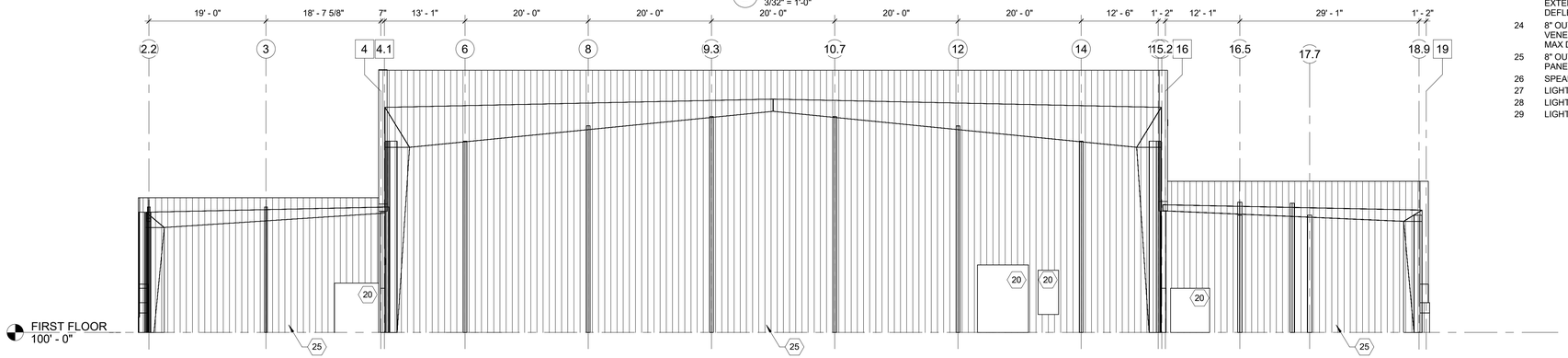
PEMB PLAN

PEMB 2
OF SHEETS

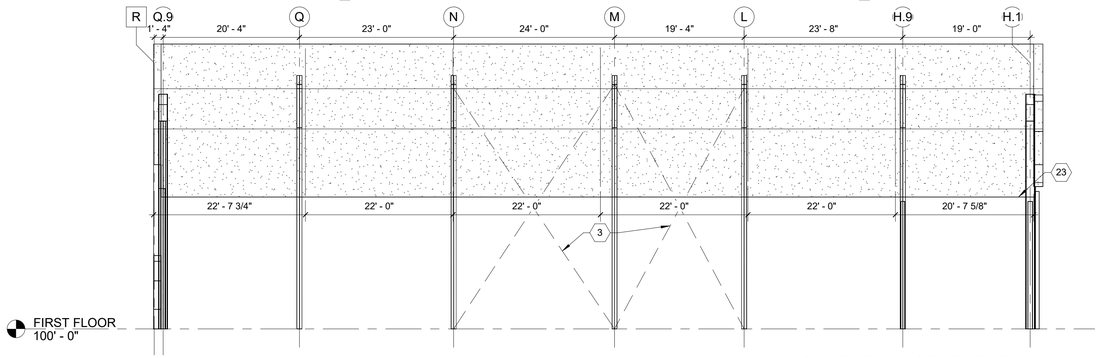
216118



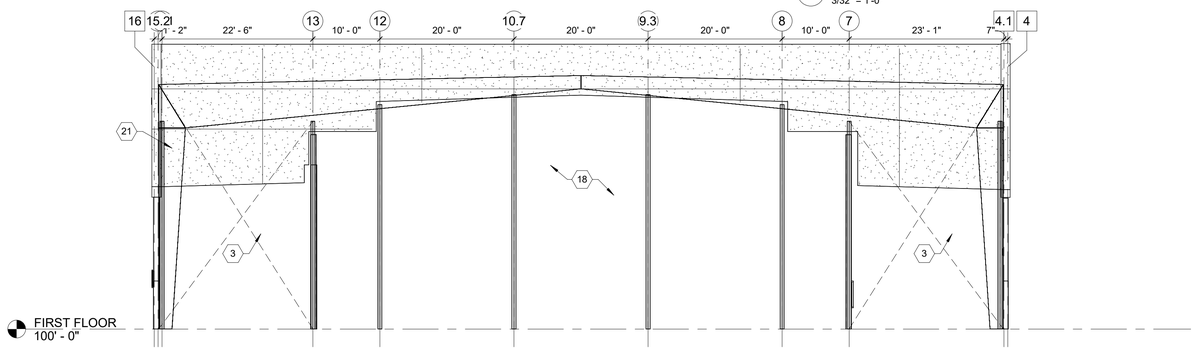
2 PEMB A SOUTH ELEVATION
3/32" = 1'-0"



3 PEMB EAST ELEVATION
3/32" = 1'-0"



1 PEMB A NORTH ELEVATION
3/32" = 1'-0"



4 PEMB A WEST ELEVATION
3/32" = 1'-0"

CODED NOTES - PEMB

1 CURTAIN LEG - 6' @ 17 plf = 100LB TOTAL
2 LIGHT BAR; APPROX WEIGHT 30 PLF (DESIGN ONLY) 46' LONG = 1,380LB TOTAL
3 X-BRACING PROPOSED FOR THIS FRAME
4 PORTAL FRAME PROPOSED FOR THIS BAY
5 CHOIR MONITOR SPEAKER -50LB (2 POINT LOADS)
6 SPEAKER ARRAY - 250LB (2 POINT LOADS)
7 SUBWOOFER ARRAY - 300LB (2 POINT LOADS)
8 PROJECTOR - 100LB POINT LOAD
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10 PIPE BATTON - 35' @ 25 plf = 750LB TOTAL
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12 WALLS IN THIS AREA WITH LOADS THAT ARE DIRECTED INTO THE PEMB FRAME. SEE STRUCTURAL DRAWINGS FOR LOADS BEING TRANSFERRED TO THE PEMB FRAME
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15 ROOF TOP UNIT ABOVE, LOADS AS INDICATED
16 ROOF ACCESS HATCH - 36" X 30"
17 SIGNAGE BY OTHERS
18 TRADITIONALLY FRAMED PORTION OF BUILDING IN THIS AREA, SEE STRUCTURAL DRAWINGS FOR LOADS BEING TRANSFERRED TO THE PEMB STRUCTURE
19 OVERHEAD SECTIONAL DOOR BY OTHERS, SIZED AS INDICATED
20 MAN DOOR BY OTHERS, SIZED AS INDICATED
21 8" OUTSET WALL GIRTS. PEMB FINISH IS EIFS OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), WEIGHT 15 PSF, MAX DEFLECT L/240
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23 8" OUTSET WALL GIRTS, STARTING AT 21'-6". PEMB FINISH IS EIFS OVER 5/8" EXTERIOR SHEATHING, OVER 1 1/2" METAL DECK (BY OTHERS), WEIGHT 15 PSF, MAX DEFLECT L/240
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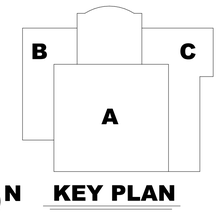

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PEMB ELEVATIONS

PEMB 3

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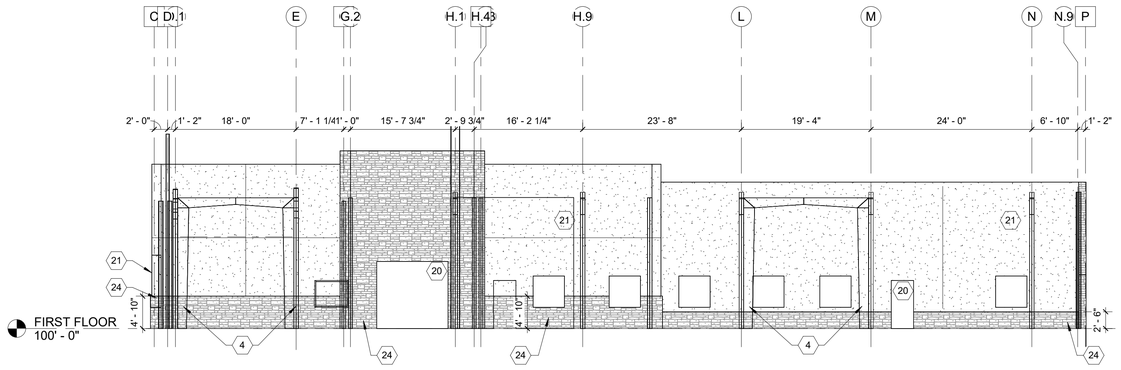

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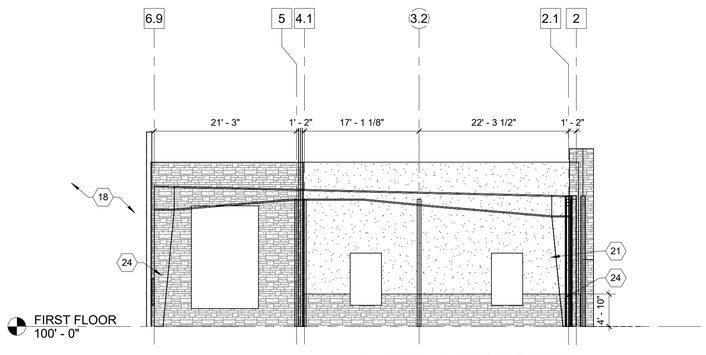

3 PEMB B WEST ELEVATION
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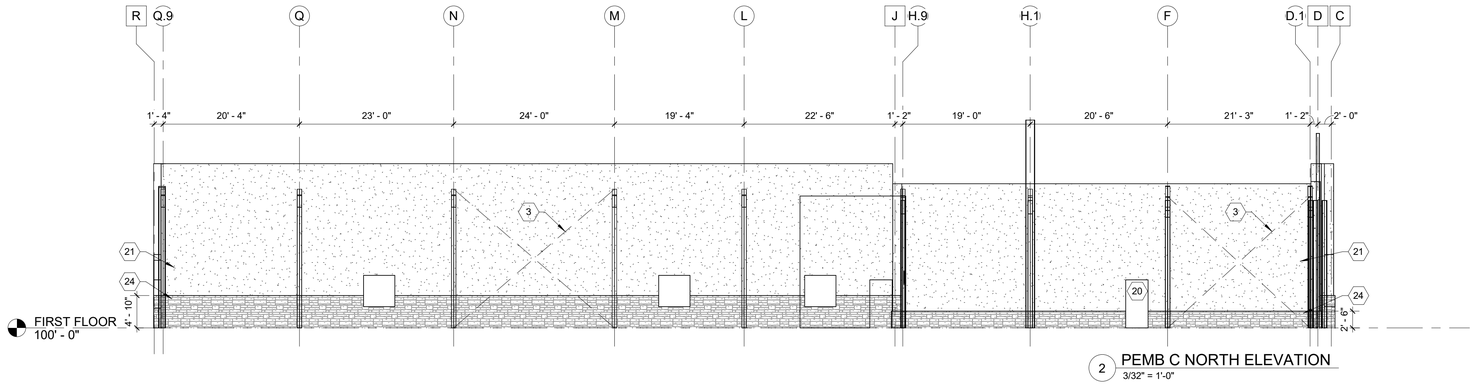

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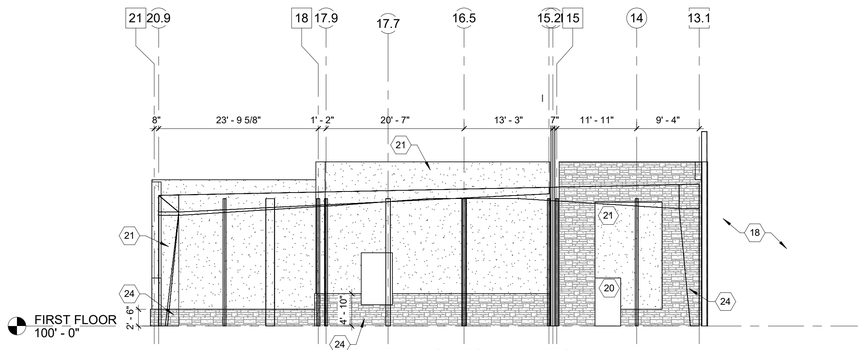

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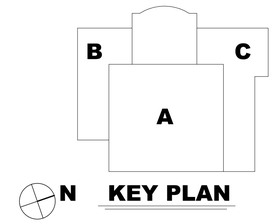

N KEY PLAN

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PEMB ELEVATIONS

PEMB 4

OF SHEETS

216118

5 4 3 2 1

D C B A

PLUMBING FIXTURE SCHEDULE

NO.	TYPE OF FIXTURE	W	V	CW	HW	MANUFACTURER/MODEL NO.	FAUCET / FLUSH VALVE	ACCESSORIES
L	LAVATORY (ADA COMPLIANT)	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER MODEL NO. K-2210-G, "CAXTON OVAL", UNDER-MOUNT, VITREOUS CHINA, (WHITE).	KOHLER MODEL NO. K-13463, SINGLE HOLE, SENSOR OPERATED, 0.5 GPM, CHROME FINISH. PROVIDE KOHLER NO. K-13480-A (SINGLE FAUCET) OR 13481-A (MULTIPLE FAUCETS) AC POWER SUPPLY.	1-1/4" GRID DRAIN (POLISHED NICKEL) 1-1/4" X 1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS. TRAP AND SUPPLY SCALD GUARD BY TRU-BRO.
L1	LAVATORY (ADA COMPLIANT)	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER MODEL NO. K-2031, "GREENWICH", WALL MOUNTED, SINGLE HOLE, VITREOUS CHINA, (WHITE).	KOHLER MODEL NO. K-13463, SINGLE HOLE, SENSOR OPERATED, 0.5 GPM, CHROME FINISH. PROVIDE KOHLER NO. K-13480-A (SINGLE FAUCET) AC POWER SUPPLY.	1-1/4" GRID DRAIN (POLISHED NICKEL) 1-1/4" X 1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS. TRAP AND SUPPLY SCALD GUARD BY TRU-BRO.
WC1	WATER CLOSET	4"	2"	1/2"	–	KOHLER MODEL NO. K-3505, "WELLWORTH", TANK TYPE, PRESSURE ASSISTED, ELONGATED BOWL, VITREOUS CHINA (WHITE), 1.6 GPF.		SEAT: KOHLER MODEL NO. K-4679-CA ELONGATED, OPEN FRONT (WHITE). CHROME PLATED SUPPLY AND LOOSE KEY STOP.
WC11	WATER CLOSET (ADA COMPLIANT)	4"	2"	1"	–	KOHLER MODEL NO. K-3493-SS, "HIGHLINE COMFORT HEIGHT", TANK TYPE, PRESSURE ASSISTED ELONGATED BOWL, VITREOUS CHINA (WHITE), 1.6 GPF.		SEAT: KOHLER MODEL NO. K-4679-CA ELONGATED, OPEN FRONT (WHITE). CHROME PLATED SUPPLY AND LOOSE KEY STOP.
UR	URINAL	2"	1-1/2"	3/4"	–	KOHLER MODEL NO. K-4991-ET (BARDON), WHITE, VITREOUS CHINA, WALL MOUNTED, TOP SPUD, 0.125 GPF. FURNISHED WITH WALL HANGERS.	SLOAN MODEL NO. 8186-0.125, FLUSH VALVE, 0.125 GPF, BATTERY, SENSOR OPERATED, CHROME FINISH.	
UR1	URINAL (ADA COMPLIANT)							UR1 SHALL BE MOUNTED 17" A.F.F. TO LIP.
SH	SHOWER (ADA COMPLIANT)	2"	1-1/2"	1/2"	1/2"	FREEDOM SHOWERS MODEL NO. APF3838BF4P.5, TRANSFER SHOWER WITH 0.5" THRESHOLD, SLIP RESISTANT FLOOR, FOLDING SHOWER SEAT, CAULKLESS DRAIN AND GRAB BARS.	FREEDOM SHOWERS MODEL NO. APFMVLS PRESSURE BALANCED MIXING VALVE, CHROME FINISH. FREEDOM SHOWERS MODEL NO. APFHGHSKIT, 2.5 GPM HANDSHOWER, 6" SHOWER ARM, HANDSHOWER MOUNT, 63" METAL HOSE, CHROME FINISH.	
MB	MOP BASIN	3"	1-1/2"	1/2"	1/2"	FIAT MODEL NO. MSB2424, "MOLDED-STONE", 24"x 24"x 10", WITH STAINLESS STEEL DRAIN BODY.	FIAT MODEL NO. 830-AA, WALL MOUNTED, WITH VACUUM BREAKER, PAIL HOOK, 3/4" HOSE THREAD SPOUT, CHROME FINISH.	ELKAY MODEL NO. LK-99 STRAINER AND TAILPIECE. 1-1/2"x1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.
SK	SINK (ADA COMPLIANT)	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY MODEL NO. LRAD191955, "LUSTERTONE", RECTANGULAR, COUNTER MOUNT, SINGLE HOLE, STAINLESS STEEL FINISH.	ELKAY MODEL NO. LK1500CR, "EVERYDAY", SINGLE LEVER, SWING SPOUT, DECK MOUNTED, SINGLE HOLE, 1.5 GPM, CHROME FINISH.	KOHLER K-8801 STRAINER AND TAILPIECE. 1-1/2"x1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.
EWC1	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	–	HALSEY TALOR MODEL NO. HTHB-HAC8BL, BI-LEVEL, BARRIER FREE, WITH BOTTLE FILLER, 1.1-1.5 GPM. STAINLESS STEEL TOP, PLATINUM VINYL FINISH.		1-1/4"x1-1/2" CAST BRASS "P" TRAP. BRASS SUPPLY AND LOOSE KEY STOP.

NOTES:

MISCELLANEOUS FIXTURE SCHEDULE

MARK	ITEM	MANUFACTURER / MODEL NO.	NOTES
FD	FLOOR DRAIN	ZURN MODEL NO. ZN415H-P-Y, CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, POLISHED NICKEL BRONZE TOP, 1/2" TRAP PRIMER CONNECTION, SEDIMANT BUCKET OR APPROVED EQUAL.	–
FS	FLOOR SINK	ZURN MODEL NO. Z1755-P-2, 12" x 12" x 6" DEEP, STAINLESS STEEL BODY, LIGHT-DUTY 1/2 GRATE, INTERIOR DOME STRAINER AND INTEGRAL FLOOR CLAMPING FRAME OR APPROVED EQUAL.	–
FCO/GCO	FLOOR/GRADE CLEANOUT	ZURN ZN1400-K-BP, CAST IRON BODY, ANCHOR FLANGE, ADJUSTABLE WITH POLISHED NICKEL BRONZE TOP AND BRONZE PLUG OR APPROVED EQUAL.	–
WC10	WALL CLEANOUT	ZURN Z1445, CAST IRON BODY WITH Z1468-ZS WITH BRONZE PLUG AND STAINLESS STEEL COVER OR APPROVED EQUAL.	–
WH	WALL HYDRANT	WOODFORD MODEL NO. 65, NON FREEZE, ANTI-SIPHON, WALL HYDRANT, WITH INTEGRAL VACUUM BREAKER, CHROME BOX WITH CHROME PLATE FACE OR APPROVED EQUAL.	–
RH	ROOF HYDRANT	WOODFORD MODEL NO. RHY2-1-MS NON FREEZE, ROOF HYDRANT, WITH DUAL CHECK BACKFLOW PREVENTER (ASSE 1052) OR APPROVED EQUAL.	–
RD & SRD	ROOF DRAIN & SECONDARY ROOF DRAIN	ZURN MODEL NO. Z164-Z-SC, CAST IRON BODY, WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DECK PLATE, LOW SILOUETTE CAST IRON DOME, UNDERDECK CLAMP. DRAIN RECEIVER OR APPROVED EQUAL.	–
DSN	DOWNSPOUT NOZZLE	ZURN ZF199-SGR, (SATIN GREY), ALUMINUM BODY, DOWNSPOUT GASKET, OUTLET NOZZLE AND PERFORATED HINGED FLAPPER OR APPROVED EQUAL.	–

NOTES:

GREASE INTERCEPTOR SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	GREASE CAPACITY (GALLONS)	FLOW RATE (GPM)
GI	GREASE INTERCEPTOR	MAYER BRO. INC.	1000 WSSC	1000	–

GREASE INTERCEPTOR SIZING CALCULATION

ITEM NO.	DISCRIPTION	QUANTITY	DFUS
1	3" FLOOR SINK (THREE COMPARTMENT SINK)	1	5
10	2 COMPARTMENT SINK	1	2
K4	3" FLOOR SINK (DISHWASHERS)	1	5
–	2" FLOOR DRAIN	2	6
TOTAL DFUS = 18			

NOTE:
SIZING BASED ON WSSC PLUMBING CODE.

GAS WATER HEATER SCHEDULE

MARK	MANUFACTURE & MODEL NO.	LOCATION	GALLONS STORAGE	G.P.H. RECOVERY @80°F RISE	G.P.H. RECOVERY @100°F RISE	ELECT.	B.T.U. PER HOUR	EXHAUST OUTLET	AIR INLET	NOTES
GWH	A. O. SMITH BTH-199 Mxi CYCLONE	JAN. CLOSET 154	100	294	235	115/1/60	199,000	3"	3"	1, 2, 3

NOTES:
1. ALL VENTING FOR GWH SHALL BE PROVIDED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE WITH SIDE WALL TERMINATION KITS
2. WATER HEATER SHALL BE SEALED COMBUSTION CHAMBER, 94% MINIMUM THERMAL EFFICIENCY, ASME CERTIFIED AND WATER SENSE CERTIFIED.
3. PROVIDE WITH CONDENSTATION NEUTRALIZATION SYSTEM.

PUMP SCHEDULE

MARK	MANUFACTURE & MODEL NO.	LOCATION	TYPE	MINIMUM CONNECTION SUCTION	MINIMUM CONNECTION DISCH	CAPACITY GPM	CAPACITY FT. H.D.	MOTOR H.P.	MOTOR R.P.M.	MOTOR ELECT.	NOTES
HWCP	BELL & GOSSETT LR-15BWR	JAN. CLOSET 154	IN-LINE	3/4"	3/4"	8	10	1/6	1726	115/1/60	1

NOTES:
1. PROVIDE RECIRCULATING PUMPS IN ALL BRONZE CONSTRUCTION. PROVIDE DEMAND CONTROLLER PER IECC 604.1.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURE & MODEL NO.	LOCATION	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	INITIAL CHARGE (PSI)	NOTES
ET	AMTROL MODEL NO. ST-12C	JAN. CLOSET 154	6.4	3.2	MATCH CW SUPPLY PRESSURE	1, 2

NOTES:
1. PROVIDE 3/4" DRAIN, VALVE HOSE CONNECTION AND CAP.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

BACKFLOW PREVENTER SCHEDULE

MARK	MANUFACTURE & MODEL NO.	LOCATION	GPM	HEAD (PSI)	SIZE	QUANTITY	NOTES
BFP	WATTS MODEL NO. SD3	KITCHEN/BAR	–	–	1/2"	SEE RISERS	1, 4
BFP1	WATTS MODEL NO. LF009QT	WATER RM.	100	10	3"	1	2, 4
DDCV	WATTS MODEL NO. LF757DCDA	WATER RM.	500	8	4"	1	3, 4

NOTES:
1. DUAL CHECK TYPE (ASSE 1022). LEAD FREE.
2. REDUCED PRESSURE ZONE TYPE (ASSE 1013).LEAD FREE.
3. DOUBLE DETECTOR CHECK VALVE TYPE (ASSE 1048). LEAD FREE.
4. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

TEMPERATURE MIXING VALVE SCHEDULE

MARK	MANUFACTURE & MODEL NO.	LOCATION	MINIMUM FLOW (GPM)	FLOW (AT 10 PSIG PRESSSUE DROP)	QUANTITY	NOTES
TMV1	LEONARD 270-LF	TOILET ROOMS	.25	5.5	SEE RISERS	1, 2
TMV2	LEONARD 170-LF	TOILET ROOMS	.25	2.3	SEE RISERS	1, 2

NOTES:
1. ASSE 1070. SET BETWEEN 105°F AND 110°F.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

GENERAL NOTES

1. ALL PLUMBING WORK SHALL CONFORM WITH ALL STATE AND LOCAL CODES, RULES AND REGULATIONS.
2. THESE DRAWINGS ARE DIAGRAMMATIC, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
3. ALL SLOPES AND INVERT ELEVATIONS SHALL BE CHECKED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WITH BE MAINTAINED.
4. MAKE PROPER WASTE, VENT, GAS, HOT AND COLD WATER CONNECTIONS TO ALL FIXTURES, AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
5. ALL PLUMBING WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE.
6. ALL HOSE BIBBS SHALL BE EQUIPPED WITH APPROVED TYPE BACK FLOW PREVENTERS.
7. CONTRACTOR SHALL INSTALL ALL FIXTURES AND EQUIPMENT PROVIDED BY OWNER, MAKE ALL FINAL CONNECTIONS PER PLUMBING FIXTURE CONNECTION SCHEDULE.
8. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR PLUMBING PERMITS, ALL OTHER FEES AND TAXES SHALL NOT BE INCLUDED IN PLUMBING CONTRACT.
9. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS. ACCESS PANELS SHALL BE INSTALLED BY THE APPROPRIATE SUBCONTRACTOR.
10. FOR ALL SIZES OF WASTE, VENT, HOT AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER RISER DIAGRAMS.
11. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED, AND ALL PIPING SHALL BE INSTALLED ON THE INSIDE OF THE BUILDING INSULATION ENVELOPE.
12. INSTALL WATER PIPING WITH A UNIFORM PITCH TO LOW POINT.
13. CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH VENT PIPE IN WALL.
14. PROVIDE BACK FLOW PREVENTION ON COLD WATER MAKE UP AND EQUIPMENT CONNECTIONS AS REQUIRED BY CODE.
15. ALL SANITARY PIPING SMALLER THAN 3" SHALL BE SLOPED AT 1/4" PER FOOT, UNLESS OTHERWISE NOTED.
16. ALL SANITARY WASTE PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT, UNLESS OTHERWISE NOTED.
17. THE AIR GAP BETWEEN INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE NOT LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
18. ALL VENT PIPES THROUGH ROOF MUST BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES AND MINIMUM OF 5'-0" FROM ANY EXHAUST FANS.
19. ALL PIPING, FIXTURES, EQUIPMENT, VALVES, ETC. SHOWN SHALL BE NEW, UNLESS NOTED OTHERWISE.
20. PROVIDE PERMANENT LABEL ON CEILING GRID BELOW ALL SERVICE VALVES, THERMOSTATIC MIXING VALVES PROVIDED UNDER THIS CONTRACT. LABEL TO BE ENGRAVED WHITE PLASTIC WITH BLACK LETTERS AND BE ATTACHED TO CEILING GRID AS DIRECTED BY THE OWNER.
21. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT OF ALL FIXTURES.
22. MAKE CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT.
23. PIPE PENETRATIONS BELOW SINKS MUST BE SEALED.
24. ALL HAND WASH FIXTURES TO BE PROVIDED WITH ASSE 1070 MIXING VALVE SET DISCHARGE TEMPERTURE BETWEEN 85°F AND 95°F.
25. ALL HANDICAPPED SINKS AND LAVATORIES SHALL BE PROVIDED WITH TRU-BRO INSULATION KIT FOR WASTE AND WATER PIPING.
26. MAINTAIN REQUIRED AIR GAP AT ALL OPEN SIGHT DRAINS AND FLOOR SINKS, AS REQUIRED BY CODE.

LEGEND

- S — SANITARY PIPE
- S — SANITARY PIPE BELOW SLAB
- V — VENT PIPE
- CW — COLD WATER PIPE
- 131°F HOT WATER PIPE
- 131°F HOT WATER RE-CIRCULATION PIPE
- G — 7"-11" WC1 GAS PIPE
- G(2) — 2 PSI GAS PIPE
- ST — STORM PIPE
- ST — STORM PIPE BELOW SLAB
- SST — SECONDARY STORM PIPE
- F — FIRE PROTECTION PIPE
- D — INDIRECT DRAIN PIPE
- TP — TRAP PRIMER PIPE
- PIPE UP
- PIPE DOWN
- FD — FLOOR DRAIN (FD)
- OSD — OPEN SITE DRAIN (OSD)
- FS — FLOOR SINK (FS)
- UNION
- WH — WALL HYDRANT (WH)
- HB — HOSE BIBB (HB)
- BALL VALVE 1/4" TURN
- GATE VALVE
- BV — BALANCING VALVE
- CV — CHECK VALVE
- PRV — PRESSURE REDUCING VALVE
- SOL — SOLENOID VALVE
- GV — GAS VALVE (AGA APPROVED)
- GR — GAS REGULATOR 2 PSI TO 7"-11" WC1
- BFP — BACKFLOW PREVENTER (BFP)
- RPZBFP — REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZBFP)
- PRESSURE GAUGE
- FLOOR/GRADE CLEANOUT
- CLEANOUT
- NEW TO EXISTING CONNECTION
- (W) — WATER RISER DESIGNATION
- (S) — SANITARY RISER DESIGNATION
- (PL) — STORM RISER DESIGNATION
- (SRL) — SECONDARY STORM RISER DESIGNATION
- (G) — GAS RISER DESIGNATION

ABV	ABOVE
BLW	BELOW
BFP	BACKFLOW PREVENTER
CLG	CEILING
CW	COLD WATER
CO	CLEANOUT
DN	DOWN
(E)	EXISTING
ELEV.	ELEVATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLR	FLOOR
FS	FLOOR SINK
GCO	GRADE CLEANOUT
HW	HOT WATER
HWR	HOT WATER RE-CIRCULATION
OSD	OPEN SITE DRAIN
RD	ROOF DRAIN
RL	RAIN LEADER
SRD	SECONDARY ROOF DRAIN
SRL	SECONDARY RAIN LEADER

- (X) — NEW WORK PLAN NOTE DESIGNATION
- (X) — EQUIPMENT DESIGNATION

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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
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☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

LEGEND, NOTES & SCHEDULES

P001
1 OF 13 SHEETS

5 4 3 2 1

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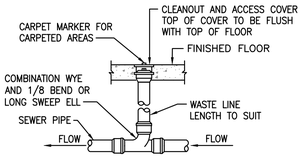
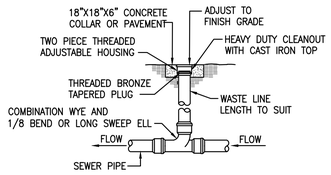


FLOOR CLEANOUT DETAIL
NO SCALE



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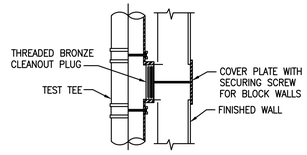

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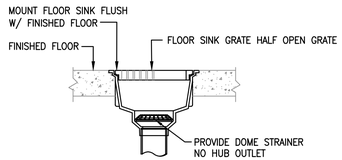

FLOOR SINK DETAIL
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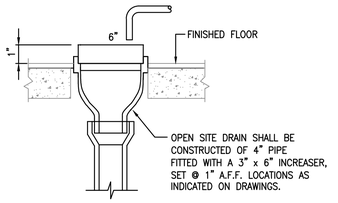

OPEN SITE DRAIN (OSD) DETAIL
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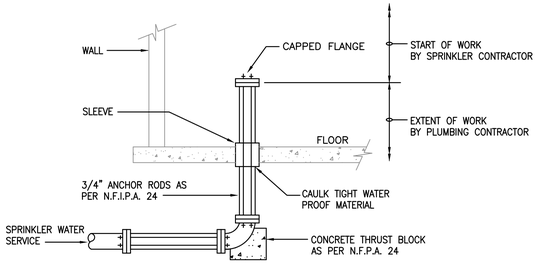

SPRINKLER SERVICE DETAIL
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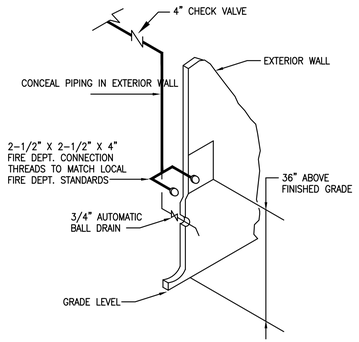

FIRE DEPARTMENT CONNECTION DETAIL
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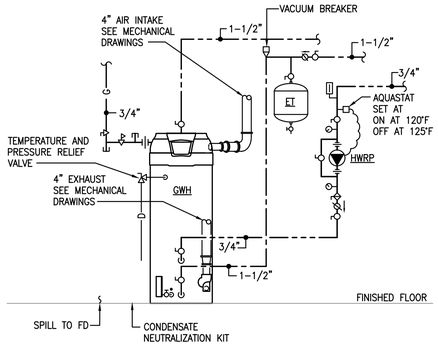
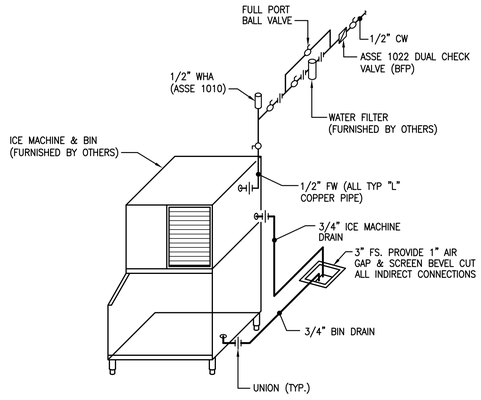
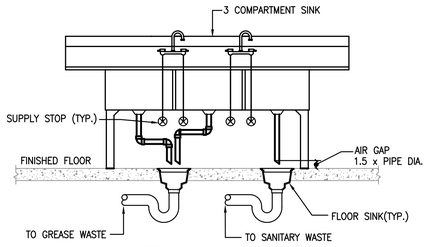


GAS WATER HEATER (GWH) PIPING DETAIL
NO SCALE



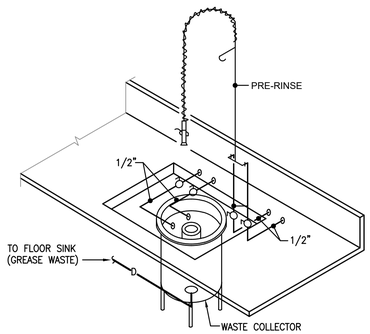
NOTES:
1. ALL EXPOSED PIPING AND FITTING SHALL BE CONCEALED OR RUN A MIN. OF 3/4" OFF THE SURFACE OF WALLS.
2. THE CONTRACTOR SHALL CONFIRM THE PIPING & COMPONENTS ARE TO CODE AND MEET HEALTH DEPT. REQUIREMENTS.
3. SEE FOOD SERVICE DRAWING FOR RECOMMENDED WATER FILTER INSTALLATION DIAGRAM.

ICE MACHINE PIPING DETAIL
NO SCALE



NOTE:
PROVIDE TRAPS ON INDIRECT WASTE DRAINS LONGER THAN 2'-0" HORIZONTALLY OR 4'-0" TOTAL.

3 COMPARTMENT SINK CONNECTION DETAIL
NO SCALE



PRE-RINSE PIPING DETAIL
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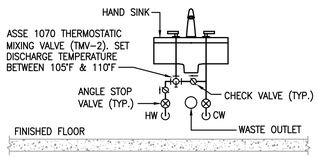
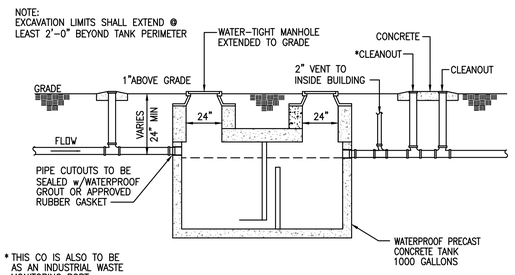


NOTE:
USED AT ALL KITCHEN & BAR HAND WASH FIXTURES

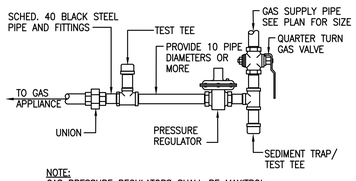
HAND WASH FIXTURE MIXING VALVE DETAIL
NO SCALE



* THIS CO IS ALSO TO BE AS AN INDUSTRIAL WASTE MONITORING PORT.

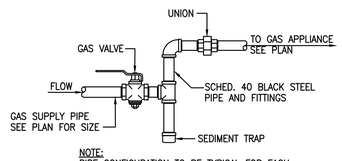
DESIGN DATA & GENERAL NOTES
1. CONCRETE STRENGTH F'c=6,000 P.S.I. @ 28 DAYS. DENSITY = 150 PCF.
2. CEMENT – PORTLAND TYPE I/II PER ASTM C 150–92
3. ADMIXTURES & PLASTICIZERS PER ASTM 260–86 & C 494–92.
4. REINFORCING PER ASTM A615, GRADE 60, DOMESTIC. MIN. 1–1/2" COVER. WALLS, BASE, & TOP SLAB DESIGNED FOR HS–20 LOADING.
5. TOP SLAB CAST ON TO BASE AND INTERNALLY SEALED WITH BUTYL ROPE MASTIC.
6. MAXIMUM 5' OF EARTH COVER TOP SLAB.
7. EXTERIOR DAMPROOF COATED.
8. APPROVED BY WSSC.

GREASE INTERCEPTOR DETAIL
NO SCALE



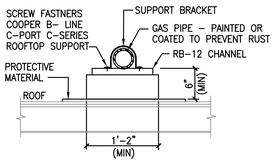
NOTE:
GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR APPROVED EQUAL AND SUITABLE FOR 2 PSI INLET PRESSURE WITH 7" TO 11" WC1 OUTLET PRESSURE. PROVIDE MANUFACTURER RECOMMENDED VENT LIMITING DEVICE WITH PROTECTOR WHERE REQUIRED.

GAS VALVE & PRESSURE REGULATOR DETAIL
NO SCALE



NOTE:
PIPE CONFIGURATION TO BE TYPICAL FOR EACH PIECE OF ROOF MOUNTED GAS FIRED EQUIPMENT

GAS VALVE DETAIL
NO SCALE



PIPE SUPPORT SPACING	
PIPE SIZE	GAS (STEEL)
3/4"	6'-0" O.C.
1-1/4"	7'-0" O.C.
1-1/2"	8'-0" O.C.
2"	10'-0" O.C.
3"	12'-0" O.C.

GAS PIPING ON ROOF SUPPORT DETAIL
NO SCALE

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Engineering Services
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Kensington, MD 20895
Phone: 301 949-2068 • Fax: 301 949-2069
Project #: 19161

NEW BUILDING FOR:
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6300 WOODYARD ROAD,
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DRAWING	DATE
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☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

DETAILS & SCHEDULES

P002
2 OF 13 SHEETS

D C B A

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PLUMBING SPECIFICATIONS

PIPE AND PIPE FITTINGS

SCOPE:

A. THE WORK COVERED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL INCLUDE THE FURNISHING OF THE PIPING SYSTEMS AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INSTALLATION.

QUALITY ASSURANCE:

A. CODES AND STANDARDS: PROVIDE AND INSTALL ALL PIPING AND ACCESSORIES IN ACCORDANCE WITH THE PROVISIONS OF THE FOLLOWING:
CISPI CAST IRON PIPE INSTITUTE
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
AWWA AMERICAN WATER WORKS ASSOCIATION

PRODUCTS:

PLUMBING PIPING:

A. SANITARY WASTE, VENT AND STORM PIPING:

1. ALL BELOW GRADE DRAINAGE PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, BELL AND SPIGOT WITH NEOPRENE GASKETS OR POURED LEAD JOINTS, OR SCHEDULE 40 SOLID CORE PVC AND FITTINGS (NO FOAM CORE PVC PIPING TO BE USED). EXTEND TO SANITARY SEWER AND CONNECT AS INDICATED ON THE PLANS.

2. ALL ABOVE GRADE DRAINAGE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, DWV COPPER TUBING AND FITTINGS, NO HUB CAST IRON PIPE AND FITTINGS WITH STAINLESS STEEL BANDS, OR SCHEDULE 40 SOLID CORE PVC AND FITTINGS (NO FOAM CORE PVC PIPING TO BE USED). NO PVC PIPING IN AIR PLENUMS.

B. DOMESTIC WATER PIPING:

1. ALL BELOW GRADE WATER PIPING WITHIN THE BUILDING SHALL BE TYPE "K" SOFT DRAWN COPPER TUBING WITH 125 PSI WROUGHT COPPER SILVER SOLDER SWEAT FITTINGS.

2. ALL ABOVE GRADE WATER PIPING WITHIN THE BUILDING SHALL BE TYPE "L" COPPER PIPE WITH 125 PSI WROUGHT COPPER 95/5 SOLDER SWEAT FITTINGS.

C. GAS PIPING:

1. ALL GAS AND GAS VENT PIPING ABOVE GRADE SHALL BE SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH 125 PSI BLACK MALLEABLE IRON FITTINGS.

2. ALL GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 FACTORY WRAPPED BLACK STEEL PIPE WITH WELDED FITTINGS.

3. GAS PIPING 2-1/2" AND LARGER SHALL BE WELDED AND 2" AND SMALLER SHALL BE SCREWED. INSTALLATION OF ALL MAINS SHALL BE CONSISTENT.

4. ALL EXPOSED EXTERIOR GAS PIPING SHALL BE COATED WITH TWO COATS OF EXTERIOR RUSTPROOF PAINT. COLOR TO BE DETERMINED BY ARCHITECT.

EXECUTION

INSTALLATION:

A. PIPE AND FITTINGS:

1. INSTALLATION: PIPING SHALL BE INSTALLED COMPLETE. ALL PIPING SHALL BE CUT ACCURATELY FROM DIMENSIONS ESTABLISHED AT THE PROJECT SITE AND ALLOWANCES SHALL BE MADE FOR THE CLEARANCE OF WINDOWS, DOORS, AND OTHER OPENINGS. NO PART OF THE BUILDING STRUCTURE MAY BE CUT TO ALLOW FOR THE INSTALLATION OF PIPING.

2. ALL PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING CONSTRUCTION AND SHALL BE INSTALLED SO AS TO ALLOW FOR EXPANSION AND DRAINAGE. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL ELBOWS AND SWING JOINTS REQUIRED TO ALLOW FOR EXPANSION, HOWEVER, THE CONTRACTOR SHALL INSTALL SWING JOINTS AT ALL RUNOUTS, AND OTHER CONNECTIONS TO MAINS.

3. ALL PIPING SHALL BE RUN INSIDE OF THE BUILDING INSULATION ENVELOPE. THAT IS, PIPING SHALL BE RUN WITHIN THE HEATED PORTION OF THE BUILDING AND SHALL NOT BE EXPOSED TO FREEZING TEMPERATURES. ANY WATER PIPING EXPOSED TO OUTSIDE AMBIENT SHALL HAVE ELECTRIC HEAT TAPE APPLIED BETWEEN INSULATION AND PIPING.

B. SCREWED JOINTS SHALL BE MADE WITH STANDARD PIPE THREAD WITH ENDS OF PIPE REAMED TO FULL DIAMETER, NO MORE THAN THREE THREADS SHALL BE LEFT EXPOSED AT EACH FITTING, AND AN APPROVED COMPOUND APPLIED TO THE MALE THREAD ONLY.

1. ALL SCREW JOINTS SHALL BE MADE WITH THE BEST QUALITY PIPE JOINT COMPOUND, CAREFULLY PLACED ON THE THREADS OF THE PIPE AND NOT ON THE FITTINGS.

2. ALL CUT THREAD PIPE SHALL HAVE CUTTING BURRS AND SHARP EDGES REAMED OUT.

3. ALL CONNECTIONS BETWEEN GALVANIZED STEEL AND C.I. PIPE SHALL BE CAULKED WITH OAKUM AND LEAD. THE END OF THE GALVANIZED STEEL PIPE SHALL BE FITTED WITH A RING OR PART OF A COUPLING SCREWED ON TO FORM A SPIGOT.

4. PROVIDE DIELECTRIC FITTINGS AT ANY CONNECTION OF DISSIMILAR METALS.

C. WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE A.S.A. PIPING CODE AND BEFORE ASSIGNING ANY WELDER TO WORK COVERED, THE CONTRACTOR SHALL PROVIDE FOR THE APPROVAL OF THE NAME OF THE PIPE WELDERS TO BE EMPLOYED IN THE WORK, TOGETHER WITH CERTIFICATION THAT EACH OF THESE WELDERS HAS PASSED QUALIFICATION TESTS AS PRESCRIBED BY THE NATIONAL CERTIFIED PIPE WELDING BUREAU, OR BY OTHER REPUTABLE TESTING LABORATORY OR AGENCY USING PROCEDURES APPROVED BY THE ASME OR THE AWS. THE CONTRACTOR SHALL USE ONLY APPROVED FACTORY MANUFACTURED WELDING TYPE FITTING, FOR THE INTERSECTION WELDING OR BRANCHING TO MAINS. VALVES AND SPECIALTIES SHALL HAVE SCREWED OR FLANGED JOINTS.

1. WELDING TEES, ELLS, REDUCERS AND CAPS SHALL BE OF WROUGHT OR FORGED CONSTRUCTION SIMILAR TO THOSE MANUFACTURED BY TUBE TURNS, INC. IN LIEU OF WROUGHT OR FORGED WELDING TEES FOR BRANCH OUTLETS, WELDOLETS OR WELDING NIPPLES THAT ARE ACCURATELY COPED IN THE SHOP TO FIT THE PIPES AND LEVELED FOR FIELD WELDING MAY BE USED, PROVIDED THAT OPENINGS IN THE WALLS OF PIPES ARE CUT TO FULL INSIDE DIAMETER OF THE NIPPLES, AND THAT THE OUTLET DIAMETER SHALL BE LESS THAN THREE-QUARTERS THE DIAMETER OF THE MAIN.

2. FOR CONNECTIONS ON WELDED PIPING TO VALVES 2-1/2" AND OVER AND OF OTHER ACCESSORIES REQUIRED TO BE FLANGED, STANDARD FORGED WELDING NECK FLANGES SHALL BE USED. THE FLANGE FACE SHALL BE IN EVERY CASE PERPENDICULAR TO THE AXIS OF THE PIPE OR VALVE.

3. NO DIRECT WELDED CONNECTIONS SHALL BE MADE TO VALVES, STRAINERS, APPARATUS AND ASSOCIATED EQUIPMENT.

D. ECCENTRIC REDUCING FITTINGS OR ECCENTRIC REDUCING COUPLINGS MUST BE INSTALLED TO BRING TOPS OF MAINS IN LINE AND PREVENT AIR POCKETS. ECCENTRIC FITTINGS WILL NOT BE REQUIRED ON WATER MAINS. ENDS OF PIPES SHALL BE REAMED OUT BEFORE BEING MADE UP. NECESSARY FITTINGS OR BANDS MUST BE USED AS SPRINGING OF PIPES WILL NOT BE PERMITTED. SCREWED PIPES AND FITTINGS ARE TO BE PUT TOGETHER WITH RED LEAD OR AN APPROVED COMPOUND APPLIED TO THE PIPES AND NOT TO FITTINGS.

E. ALL PIPES WHICH PASS THROUGH SLEEVES IN FIRE RATED ASSEMBLIES SHALL HAVE THE SPACE BETWEEN THE PIPES AND SLEEVES FIRESTOPPED AND SMOKESTOPPED WITH A FIREPROOF MATERIAL.

F. THE INSTALLATION OF ALL PIPES MUST BE SUCH AS TO ALLOW FOR EXPANSION USING OFFSETS, SWING JOINTS, EXPANSION JOINTS, ETC., AS MAY BE NECESSARY TO PREVENT UNDUE STRAIN ON PIPING. TAKE-OFF FROM MAINS SHALL HAVE NOT LESS THAN A THREE-ELBOW SWING.

G. PIPING FITTINGS AND APPURTENANCES IN GENERAL, SHALL CONFORM TO THE AMERICAN STANDARD CODE FOR PRESSURE PIPING 125 PSIG CLASS.

H. COPPER OR TUBING JOINTS SHALL BE MADE WITH 95/5 SOLDER AND APPROVED FLUX, EXCEPT REFRIGERANT AND BELOW GRADE PIPING WHICH SHALL BE MADE WITH SILVER SOLDER. CONDENSATE DRAIN PIPING JOINTS SHALL BE MADE WITH 95/5 SOLDER AND APPROVED FLUX IF COPPER PIPING IS USED.

I. C.I. CLEANOUT WITH STRAIGHT BODY FOR CAULKING INTO PIPE HUB AND FITTED WITH A BRASS COUNTER-SUNK PLUG SHALL BE PROVIDED AND INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.

PIPING TESTS AND FILLING:

A. THE FOLLOWING TESTS WILL BE CONDUCTED BY THE CONTRACTOR AND ALL PIPING SHALL BE PROVEN TIGHT IN THE PRESENCE OF THE OWNER. THESE TESTS SHALL BE CONDUCTED BEFORE ANY INSULATION IS INSTALLED AND ANY INSULATION INSTALLED PRIOR TO TESTS SHALL BE REMOVED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED AND TESTS SHALL BE FOR AT LEAST 24 HOURS IN DURATION AS FOLLOWS:

1. 1ALL WATER SYSTEMS SHALL BE HYDROSTATICALLY TESTED TO 100 PSI. ALL OPENINGS IN THE WATER PIPING SHALL BE PLUGGED; THE SYSTEM OR PORTION THEREOF SHALL BE FILLED WITH WATER AND TESTED.

2. THE ENTIRE WASTE AND VENT SYSTEM SHALL BE HYDROSTATICALLY TESTED. THE TEST SHALL COMPRISE THE PLUGGING OF ALL OPENINGS IN THE SOIL, WASTE AND VENT LINES, FILLING THE SYSTEM OR A PORTION THEREOF WITH WATER TO THE ROOF LEVEL UNTIL ALL JOINTS ARE PROVEN TIGHT.

PIPING SPECIALTIES

SCOPE:

A. THE WORK COVERED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE PIPING SPECIALTIES AND ASSOCIATED ITEMS SPECIFIED AND/OR INDICATED AND ALL NECESSARY PIPING CONNECTIONS REQUIRED FOR A COMPLETE SYSTEM.

QUALITY ASSURANCE:

A. EACH PIPING SPECIALTY ITEM SHALL BE DESIGNED, CONSTRUCTED AND TESTED IN ACCORDANCE WITH ALL RECOGNIZED CODES AND TESTING LABORATORIES.

B. EACH PIPING SPECIALTY ITEM SHALL BE FURNISHED AND INSTALLED IN QUANTITIES AS INDICATED ON THE DRAWINGS, OR AS REQUIRED FOR A COMPLETE SYSTEM.

PRODUCTS:

PIPING SPECIALTIES:

A. GASKETS: THE GASKETS USED IN PIPING SYSTEMS SHALL BE BEST GRADE FOR TYPE OF SERVICE REQUIRED. GASKETS SHALL BE COMPRESSED NON-ASBESTOS TYPE, JOHNS-MANVILLE, GARLOCK OR ANCHOR PACKING. FLANGED GASKETS SHALL BE ONE-PIECE 1/16" THICK OF THE RING TYPE FOR RAISED FACE FLANGES AND OF FULL-FACE TYPE FOR FLAT-FACED FLANGES. GASKETS SHALL BE SUITABLE FOR TEMPERATURE, PRESSURE AND SERVICE RATING OF THE RESPECTIVE SYSTEMS.

B. UNIONS: PROVIDE UNIONS WHERE REQUIRED FOR THE REMOVAL OF COILS, SHELL HEADS, GAS EQUIPMENT, ETC.

1. STEEL PIPE 2" AND SMALLER SHALL BE MALLEABLE IRON, WITH BRONZE IRON GROUND JOINT AND THREADED ENDS FOR SCREWED JOINTS.

2. STEEL PIPE 2-1/2" AND LARGER SHALL BE OF THE WELDING NECK FLANGED TYPE.

3. UNIONS FOR COPPER TUBING SHALL BE EIGHTY-FIVE (85) PERCENT COPPER CAST BRASS ALLOY WITH GROUND JOINTS AND THREADED NUT, AND RECESSED ENDS FOR SOLDERED JOINTS.

4. DIELECTRIC UNIONS SHALL BE PROVIDED AT ALL CONNECTIONS OF DISSIMILAR METALS.

C. ANCHORS: ALL PIPING SYSTEMS SHALL BE ANCHORED WHERE REQUIRED TO PREVENT UNCONTROLLED MOVEMENT BY REASON OF THERMAL EXPANSION OR CONTRACTION, WATER FLOW OR WATER HAMMER.

1. ANCHORS SHALL PREVENT BOTH AXIAL AND LATERAL MOVEMENT OF THE PIPE.

2. ANCHORS SHALL BE CONSTRUCTED OF STEEL SECTIONS AND PLATES, ASSEMBLED BY WELDING OR BOLTING AND SECURED TO THE BUILDING STRUCTURE BY WELDING, BOLTING OR OTHER APPROVED METHOD. ANCHORS SHALL BE WELDED TO STEEL PIPE AND IN NO CASE SHALL ANCHORS BE ATTACHED TO PIPES BY CLAMPS WHICH DEPEND UPON FRICTION TO SECURE PIPE.

3. AUXILIARY STEEL REQUIRED FOR THE PROPER INSTALLATION OF PIPE ANCHORS ATTACHED TO THE BUILDING STRUCTURAL MEMBERS SHALL BE PROVIDED UNDER THIS SECTION OF THE SPECIFICATIONS.

D. HANGERS AND SUPPORTS: PIPE HANGERS SHALL BE FEE & MASON, B-LINE OR GRINNELL STEEL OR COPPER CLAD CLEVIS HANGERS SUPPORTED FROM ROUND STEEL ROD AND SELECTED WITHIN MANUFACTURER'S PUBLISHED LOAD RATINGS, ACCURATELY ADJUSTED TO MAINTAIN SPECIFIED PIPE GRADES AND SECURELY ATTACHED TO THE BUILDING BY MEANS OF CONCRETE INSERTS, CLAMPS, BRACKETS, EXPANSION SHIELDS, ETC., AS APPLICABLE.

1. GROUP HANGERS OR BRACKETS CONSTRUCTED OF CHANNEL IRON OR PIPE MAY BE INSTALLED.

2. RODS FOR TRAPEZE HANGERS SUPPORTING SEVERAL PIPES SHALL BE SIZED FOR THE EQUIVALENT LOAD.

3. WHERE THE LINES ARE SUBJECT TO EXPANSION, THE SUPPORTS SHALL BE CAREFULLY WORKED OUT TO ALLOW THE PIPE TO EXPAND WITHOUT RESTRICTION. WHERE NECESSARY, ROLLER OF FLEXIBLE HANGERS OR BASE SUPPORTS SHALL BE INSTALLED.

4. HANGER RODS SHALL BE ATTACHED TO SUFFICIENTLY RIGID STRUCTURAL MEMBERS OF THE BUILDING. DO NOT ATTACH HANGERS TO BOTTOM CHORDS OF STRUCTURAL MEMBERS, UNLESS APPROVED BY ARCHITECT.

5. PROVIDE HANGERS WITHIN 2'-0" OF EACH VERTICAL AND HORIZONTAL CHANGE IN DIRECTION OF PIPING.

6. PROVIDE ADDITIONAL HANGERS OR ANCHORING DEVICES NECESSARY FOR PROPER SUPPORT OF PIPING AT CORNERS, TOP OF RISERS, ETC.

7. SUPPORT RISERS AT EACH FLOOR LEVEL BY MEANS OF APPROVED RISER CLAMPS.

8. WHERE PIPING PENETRATES WALLS THRU SLEEVES, THE PIPING SHALL BE SUPPORTED ON EACH SIDE OF SLEEVE NOT MORE THAN 18" FROM SLEEVE.

9. HANGERS FOR UNINSULATED COPPER PIPE SHALL BE EITHER COPPER PLATED TYPE OR A MANUFACTURED PRODUCT SPECIFICALLY DESIGNED TO PREVENT DIRECT CONTACT TO A STEEL HANGER OR SUPPORT.

10. SUPPORTS FOR PIPES WITH VAPOR BARRIER TYPE COVERING SHALL NOT CONTACT THE PIPE BUT SHALL SURROUND THE UNBROKEN COVERING. PROVIDE GALVANIZED STEEL SHIELDS PROPERLY FORMED TO THE JACKET O.D. BETWEEN HANGER CLEVISES AND THE LOWER 1/3 OF THE CIRCUMFERENCE. SIZE SHIELDS AS FOLLOWS:

PIPE TO 1": 26 GA. X 8" LONG
1-1/2" TO 2": 20 GA. X 12" LONG
2-1/2" TO 6": 20 GA. X 12" LONG.

11. HANGER SPACING FOR HORIZONTAL PIPE SHALL NOT EXCEED:

CAST IRON SOIL PIPE: 5'-0"
1/2" TO 1" PIPE: 6'-0"
1-1/4" TO 2" PIPE: 8'-0"
2-1/2" TO 4" PIPE: 10'-0"

12. HANGER SPACING FOR VERTICAL PIPE SHALL BE LOCATED:

CAST IRON SOIL PIPE AT THE BASE AND AT EACH STORY
THREADED PIPE AT EACH STORY
NO HUB SOIL PIPE AT EACH STORY AND AT MID-POINT BETWEEN FLOORS
COPPER TUBE AT EACH STORY.

13. HANGER RODS SHALL BE AT LEAST:

PIPE TO 2": 3/8" DIAMETER
2-1/2" TO 3": 1/2" DIAMETER
4" TO 5": 5/8" DIAMETER

14. ALL HORIZONTAL AND VERTICAL WATER PIPING IN PIPE CHASES BEHIND FIXTURE WALL SHALL BE SUPPORTED FROM THE WASTE AND VENT PIPES. SUPPORTS SHALL HAVE PRECISELY DIMENSIONED SLOTS AND GROOVES FOR EXACT CENTERING, PROVIDE STRENGTH AND RIGIDITY TO ASSURE OUTLETS ARE IN PROPER POSITION FOR FIXTURE SETTING, AND PROVIDE ELECTROLYTIC ISOLATION. THE SUPPORTS SHALL BE AS MANUFACTURED BY ADJUSTO-SYSTEM OR SUMNER SYSTEM.

E. THERMOMETERS AND GAUGES:

1. THERMOMETERS:

a. PIPING: THERMOMETERS SHALL BE THE SEPARABLE SOCKET, ADJUSTABLE ANGLE TYPE, NOT LESS THAN 9" SCALE V-SHAPED, MERCURY FILLED, RED READING COLUMN. RANGE SHALL BE APPLICABLE FOR THE SERVICE. THERMOMETERS SHALL BE APPLICABLE FOR SERVICE. THERMOMETERS SHALL BE ADJUSTABLE TYPE TO PERMIT EASY READING FROM FLOOR AND OUTSIDE OF INSULATION AS MANUFACTURED BY WEKSLER, TAYLOR, OR TRERICE.

2. PRESSURE GAUGES:

a. PRESSURE GAUGES SHALL BE OF THE BOURBON-TUBE TYPE WITH DIAL DIAMETER NOT LESS THAN 4-1/2" AND OPERATING RANGE 0-100 PSIG. A SHUT-OFF COCK IN LINE TO EACH GAUGE. GAUGES AS MANUFACTURED BY WEKSLER, TAYLOR OR TRERICE. GAUGES SHALL BE INSTALLED ON THE SUCTION AND DISCHARGE OF ALL PUMPS.

3. THERMOMETERS SHALL BE INSTALLED ON BOTH THE ENTERING AND LEAVING SIDE OF THE FOLLOWING EQUIPMENT:

a. DOMESTIC WATER HEATER: LEAVING SIDE ONLY DOMESTIC WATER TO SYSTEM.
b. DOMESTIC THERMOSTATIC MIXING VALVE (MIXTURE WATER ONLY).

F. DRAIN VALVES:

1. DRAIN VALVES SHALL BE PROVIDED AT ALL LOW POINTS IN PIPING SYSTEMS. VALVES SHALL BE BRONZE WITH THREADED HOSE CONNECTION. VALVES SHALL BE STOCKHAM, MILWAUKEE OR HAMMOND.

EXECUTION

A. INSTALLATION:

1. PROVIDE AND INSTALL EACH PIPING SPECIALTY ITEM AS REQUIRED FOR A COMPLETE SYSTEM.

2. COMPLY WITH THE MANUFACTURER'S PRINTED INSTRUCTION.

3. BEFORE INSTALLATION, ALL PIPING SPECIALTY ITEMS SHALL BE COORDINATED WITH ALL ASSOCIATED TRADES.

VALVES

SCOPE:

A. THE WORK COVERED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL VALVES SPECIFIED AND ALL NECESSARY PIPING CONNECTIONS REQUIRED FOR A COMPLETE SYSTEM.

QUALITY ASSURANCE:

A. EACH VALVE SHALL BE DESIGNED, CONSTRUCTED AND TESTED IN ACCORDANCE WITH ALL RECOGNIZED CODES AND TESTING LABORATORIES.

B. EACH VALVE SHALL BE FURNISHED AND INSTALLED IN QUANTITIES REQUIRED. ALL VALVES OF THE SAME TYPE AND SERVICE SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER.

C. VALVE ENDS SHALL BE AS FOLLOWS:

1. SCREWED JOINTS SHALL HAVE THREADED ENDS FOR SIZES 2" AND SMALLER IN STEEL PIPING, EXCEPT WHERE OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS.

2. WELDED JOINTS SHALL HAVE SOCKET ENDS FOR SIZES 2" AND LARGER IN STEEL PIPING.

3. SOLDERED JOINTS SHALL HAVE RECESSED ENDS, FOR SIZES 2" AND SMALLER IN COPPER TUBING.

ALL VALVES 2-1/2" AND LARGER SHALL HAVE FLANGED ENDS.PRODUCTS:

A. GATE, BUTTERFLY, BALL AND STOP VALVES:

GENERAL: VALVES SHALL BE STOCKHAM, NIBCO, MILWAUKEE, OR HAMMOND. THE NAMING OF A MODEL NUMBER OF ONE MANUFACTURER IS INTENDED TO IDENTIFY THE QUALITY AND STYLE REQUIRED.

1. GATE VALVES:

a. GATE VALVES 2" AND SMALLER IN COPPER PIPING SHALL BE CLASS 125 (200 LB. WOG), ALL BRONZE, SOLID WEDGE DISC, RISING STEM WITH SOLDERED STOCKHAM NO. B-109.

b. GATE VALVES 2" AND SMALLER IN STEEL PIPE SHALL BE CLASS 125 (200 LB. WOG), ALL BRONZE, SOLID WEDGE DISC, RISING STEM WITH THREADED ENDS.STOCKHAM NO. B107.

c. GATE VALVES 2-1/2" AND LARGER SHALL BE CLASS 125 (200 LB. WOG) IRON BODY, SOLID WEDGE DISC, BRONZE TRIM, NON-RISING STEM, WITH FLANGED ENDS. STOCKHAM NO. G-612.

2. BUTTERFLY VALVES 2-1/2" AND LARGER MAY BE USED IN LIEU OF GATE VALVES FOR WATER USE
SYSTEMS. THESE VALVES SHALL BE RATED AT NOT LESS THAN CLASS 150 AND SUITABLE FOR
WITH 180EF WATER. VALVES SHALL BE LUG TYPE FOR PIPE REMOVAL ON EITHER SIDE OF VALVE
AND SHALL HAVE STAINLESS STEEL SHAFTS, STOCKHAM NO. LD711DS3B.

3. BALL VALVES 2" AND SMALLER MAY BE USED IN LIEU OF GATE VALVES FOR WATER SYSTEMS. THESE VALVES SHALL BE RATED AT NOT LESS THAN CLASS 150 AND SUITABLE FOR USE WITH 180F WATER, STOCKHAM NO. S216BRR WITH EXTENDED HANDLES FOR INSULATED PIPING.

B. STOP VALVES:

1. STOP VALVES SHALL BE ALL BRONZE FOR USE WITH GAS, AND WATER. VALVES SHALL BE ROCKFORD ECLIPSE BRASS PRODUCTS, AMERICAN VALVE, MCDONALD OR EUGENE ERNST PRODUCTS. THE NAMING OF A MODEL NUMBER OF ONE MANUFACTURER IS INTENDED TO IDENTIFY THE QUALITY AND STYLE REQUIRED.

2. GAS STOP VALVES: MCDONALD, ALL BRONZE, MODEL NO. 10701 WITH LEVER HANDLES. GAS VALVE TO BE APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION AND THE VALVE TO BE A.G.A. APPROVED AND HAVE A.G.A. STAMP ON VALVE BODY.

C. CHECK VALVES:

1. VALVES SHALL BE ROCKFORD ECLIPSE BRASS PRODUCTS, NIBCO, MILWAUKEE OR HAMMOND. THE NAMING OF A MODEL NUMBER OF ONE MANUFACTURER IS INTENDED TO IDENTIFY THE QUALITY AND STYLE REQUIRED.

2. SWING CHECK VALVES 2" AND SMALLER: BRONZE BODY, SCREWED OR SWEAT END, BRONZE DISK, 200 PSI WOG, MILWAUKEE 509 OR 1509.

3. SWING CHECK VALVES 2-1/2" AND LARGER: IRON BODY, FLANGED ENDS, BRONZE MOUNTED, 200 PSI WOG, MILWAUKEE F-2974.

4. SILENT (VERTICAL) CHECK VALVES 2-1/2" AND LARGER: IRON BODY, WAFER STYLE, BRONZE TRIM, CLASS 125, MILWAUKEE.

5. HORIZONTAL LIFT CHECK VLAVE: ROCKFORD ECLIPSE BRASS PRODUCTS NO. 833.

6. BALL CHECK VALVE: SPRING LOADED, STAINLESS STEEL, BALL ROCKFORD ECLIPSE BRASS PRODUCTS 1352.

EXECUTION

INSTALLATION:

A. PROVIDE VALVES WHERE REQUIRED FOR ADEQUATE CONTROL OF THE SYSTEM. VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND ALLOW ISOLATION FOR INSPECTION, MAINTENANCE AND REPAIR OF EACH PIECE OF EQUIPMENT AND EACH MAIN SERVICE LOOP.

TAG AND VALVE CHART:

A. FURNISH AND INSTALL ON EACH VALVE A BRASS TAG WITH NUMBER EMBOSSED IN THE BRASS TAG FOR EACH VALVE AND SECURELY FASTENED TO EACH VALVE WHEEL WITH BEADED CHAIN OR BRASS WIRE.

B. PROVIDE A CHART ENCLOSED IN A GLASS COVERED FRAME IN MAIN MECHANICAL ROOM, SHOWING THE LOCATION AND USE OF EACH VALVE. TWO CHARTS SHALL BE PROVIDED, ONE FOR THE PLUMBING VALVES AND ONE FOR THE HEATING AND COOLING VALVES. THE PLUMBING VALVES SHALL START WITH THE NUMBER ONE AND CONTINUE CONSECUTIVELY UNTIL ALL HEATING AND COOLING VALVES ARE NUMBERED.

PIPE INSULATION:

A. THE FOLLOWING SHALL BE INSULATED:

4. ALL DOMESTIC COLD WATER PIPING ABOVE GRADE .
5. ALL HOT WATER AND HOT WATER RETURN PIPING .
6. ALL HORIZONTAL STORM DRAIN PIPING AND ROOF DRAIN BODIES.

B. DOMESTIC HOT, COLD, HOT WATER RECIRCULATION, PRIMARY STORM DRAINAGE, AND WASTE DRAINAGE PIPING SHALL BE INSULATED WITH 4 LB. DENSITY SECTIONAL FIBERGLASS INSULATION WITH A THERMAL CONDUCTIVITY NOT TO EXCEED 0.24 WITH WHITE ALL SERVICE JACKET AND VAPOR BARRIER. ALL JOINTS AND SEAMS SHALL BE SEALED VAPOR TIGHT. ALL SEAMS AND STAPLES SHALL THEN BE COVERED WITH "ALL SERVICE JACKET" THREE-INCH WIDE TAPE.

C. ALL INTERIOR HORIZONTAL STORM DRAINAGE PIPING SYSTEMS AND ROOF DRAIN BODIES ARE TO BE INSULATED WITH BLANKET TYPE GLASS FIBER BONDED WITH THERMOSETTING RESIN WITH WHITE VINYL VAPOR RETARDING FACING, 2" WIDE STAPLING/TAPING TAB.

D. MATERIALS AS SPECIFIED IN THIS SECTION SHALL BE MANUFACTURED BY CERTAINTEED, JOHNS MANVILLE, KNAUF, OWENS CORNING OR EQUAL. INSULATION THICKNESSES SHALL BE AS SHOWN IN THE FOLLOWING TABLE:

PIPING SYSTEM	FLUID TEMPERATURE RANGE (°F)	PIPE SIZE				
		1" AND LESS	1-1/4" TO 2"	2-1/2" TO 4"	5" & 6"	8" AND LARGER
		INSULATION THICKNESS				
DOMESTIC COLD WATER	AMBIENT	1/2"	1"	1"	1"	–
DOMESTIC HOT WATER AND HOT WATER RECIRCULATION	110° – 160°	1"	1"	1-1/2"	1-1/2"	–
ABOVE GRADE DRAINS AND PIPING RECEIVING CONDENSATE OR ICE MACHINE DISCHARGE	40° – 60°	1/2"	1"	1"	1-1/2"	–
HORIZONTAL STORM DRAINAGE	AMBIENT	–	–	1"	1"	1"

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DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

PLUMBING SPECIFICATIONS

P003
3 OF 13 SHEETS

5 4 3 2 1

D C B A

FIRE PROTECTION SPECIFICATIONS

GENERAL

RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

B. ALL WORK SHALL CONFORM WITH "NFPA 13 AND ALL STATE AND LOCAL CODES"

SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING FIRE-SUPPRESSION PIPING INSIDE THE BUILDING:

1. WET SPRINKLER SYSTEMS

PERFORMANCE REQUIREMENTS

A. STANDARD PIPING SYSTEM COMPONENT WORKING PRESSURE: LISTED FOR AT LEAST 175 PSIG.

B. FIRE-SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION AND FACTORY MUTUAL.

1. SYSTEMS SHALL BE DESIGNED TO PROVIDE A MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE OF 10 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.

2. SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:

a. ELECTRICAL EQUIPMENT ROOMS, : SPECIAL HAZARD 1.

3. MINIMUM DENSITY FOR AUTOMATIC-SPRINKLER PIPING DESIGN:
a. LIGHT HAZARD OCCUPANCY: 0.1 GPM OVER 1500-SQ. FT. AREA.

WHERE A SPACE IS NOT LARGE ENOUGH TO INCLUDE THE FULL PROTECTION AREA IN HYDRAULIC CALCULATIONS, ADJACENT AREAS SHALL BE INCLUDED AT APPROPRIATE DENSITY TO MAKE UP THE REQUIRED COVERAGE AREA.

4. MAXIMUM PROTECTION AREA PER SPRINKLER: PER UL LISTING .

5. MAXIMUM PROTECTION AREA PER SPRINKLER:
a. OFFICE SPACES: 225 SQ. FT.
b. STORAGE AREAS: 130 SQ. FT.
c. MECHANICAL EQUIPMENT ROOMS: 130 SQ. FT.
d. ELECTRICAL EQUIPMENT ROOMS: 130 SQ. FT.
e. CONCEALED COMBUSTIBLE CONSTRUCTION (I.E. BETWEEN SUSPENDED CEILINGS AND STRUCTURE ABOVE.
f. OTHER AREAS: ACCORDING TO NFPA 13 UNLESS OTHERWISE INDICATED.

6. TOTAL COMBINED HOSE-STREAM DEMAND REQUIREMENT: A MINIMUM OUTSIDE HOSE STREAM OF 100 GPM SHALL BE PROVIDED FOR ALL SYSTEMS.

C. SEISMIC PERFORMANCE: FIRE-SUPPRESSION PIPING SHALL BE CAPABLE OF WITHSTANDING THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO NFPA 13 AND FM DATA SHEET 2-8N.

SUBMITTALS

A. PRODUCT DATA: FOR THE FOLLOWING:

1. PIPING MATERIALS, INCLUDING SPRINKLER SPECIALTY FITTINGS.

2. PIPE HANGERS AND SUPPORTS, INCLUDING SEISMIC RESTRAINTS.

3. VALVES, INCLUDING LISTED FIRE-PROTECTION VALVES, UNLISTED GENERAL-DUTY VALVES, AND SPECIALTY VALVES AND TRIM.

4. SPRINKLERS, ESCUTCHEONS, AND GUARDS. INCLUDE SPRINKLER FLOW CHARACTERISTICS, MOUNTING, FINISH, AND OTHER PERTINENT DATA.

5. ALARM DEVICES, INCLUDING ELECTRICAL DATA.

B. SHOP DRAWINGS: DIAGRAM POWER, SIGNAL, AND CONTROL WIRING.

C. FIRE-HYDRANT FLOW TEST REPORT.

D. APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA 13, THAT HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS.

E. FIELD TEST REPORTS AND CERTIFICATES: INDICATE AND INTERPRET TEST RESULTS FOR COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND AS DESCRIBED IN NFPA 13. INCLUDE "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING."

F. FIELD QUALITY-CONTROL TEST REPORTS.

G. OPERATION AND MAINTENANCE DATA: FOR SPRINKLER SPECIALTIES TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.

1.5 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS:

1. INSTALLER'S RESPONSIBILITIES INCLUDE DESIGNING, FABRICATING, AND INSTALLING FIRE-SUPPRESSION SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. BASE CALCULATIONS ON RESULTS OF A CURRENT FIRE-HYDRANT FLOW TEST.

a. ENGINEERING RESPONSIBILITY: PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS BY A QUALIFIED PROFESSIONAL ENGINEER, OR, IF ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, A NICET LEVEL IV SPRINKLER DESIGNER.

B. WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

C. NFPA AND FACTORY MUTUAL GLOBAL (FMG) STANDARDS: FIRE-SUPPRESSION-SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION, AND TESTING SHALL COMPLY WITH THE FOLLOWING:

1. NFPA 13, "INSTALLATION OF SPRINKLER SYSTEMS."

2. FM DATA SHEET 2-8N, "INSTALLATION OF SPRINKLER SYSTEMS"

COORDINATION

A. COORDINATE LAYOUT AND INSTALLATION OF SPRINKLERS WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, AND PARTITION ASSEMBLIES.

EXTRA MATERIALS

A. FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.

1. SPRINKLER CABINETS: FINISHED, WALL-MOUNTING, STEEL CABINET WITH HINGED COVER, WITH SPACE FOR MINIMUM OF SIX SPARE SPRINKLERS PLUS SPRINKLER WRENCH. INCLUDE NUMBER OF SPRINKLERS REQUIRED BY NFPA 13 AND SPRINKLER WRENCH. INCLUDE SEPARATE CABINET WITH SPRINKLERS AND WRENCH FOR EACH TYPE OF SPRINKLER ON PROJECT.

PRODUCTS

MANUFACTURERS

A. PRODUCTS AND MANUFACTURERS SHALL BE UL LISTED AND FACTORY MUTUAL GLOBAL (FMG) APPROVED FOR USE ON FIRE PROTECTION SYSTEMS.

STEEL PIPE AND FITTINGS

A. THREADED-END, STANDARD-WEIGHT STEEL PIPE: ASTM A 53/A 53M, ASTM A 135, OR ASTM A 795, HOT-DIP GALVANIZED WITH FACTORY- OR FIELD-FORMED THREADED ENDS.

1. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3.

2. STEEL THREADED PIPE NIPPLES: ASTM A 733, MADE OF ASTM A 53/A 53M OR ASTM A 106, SCHEDULE 40, SEAMLESS STEEL PIPE HOT-DIP GALVANIZED. INCLUDE ENDS MATCHING JOINING METHOD.

3. STEEL THREADED COUPLINGS: ASTM A 865.

B. GROOVED-END, STANDARD-WEIGHT STEEL PIPE: ASTM A 53/A 53M, ASTM A 135, OR ASTM A 795, HOT-DIP GALVANIZED WITH FACTORY- OR FIELD-FORMED, SQUARE-CUT- OR ROLL-GROOVED ENDS.

1. GROOVED-JOINT PIPING SYSTEMS:

a. GROOVED-END FITTINGS: UL-LISTED AND FMG APPROVED, ASTM A 536, DUCTILE-IRON CASTING WITH OD MATCHING STEEL-PIPE OD.

b. GROOVED-END-PIPE COUPLINGS: UL 213 AND AWWA C606, RIGID PATTERN, UNLESS OTHERWISE INDICATED; GASKETED FITTING MATCHING STEEL-PIPE OD. INCLUDE DUCTILE-IRON HOUSING WITH KEYS MATCHING STEEL-PIPE AND FITTING GROOVES, PRELUBRICATED RUBBER GASKET LISTED FOR USE WITH HOUSING, AND STEEL BOLTS AND NUTS.

C. GROOVED-END, SCHEDULE 10 STEEL PIPE: ASTM A 135 OR ASTM A 795, SCHEDULE 10 IN NPS 5 AND SMALLER; AND NFPA 13-SPECIFIED WALL THICKNESS IN NPS 6 TO NPS 10; WITH FACTORY- OR FIELD-FORMED, ROLL-GROOVED ENDS.

1. GROOVED-JOINT PIPING SYSTEMS:

a. GROOVED-END FITTINGS: UL-LISTED, ASTM A 536, DUCTILE-IRON CASTING WITH OD MATCHING STEEL-PIPE OD.

b. GROOVED-END-PIPE COUPLINGS: UL 213 AND AWWA C606, RIGID PATTERN, UNLESS OTHERWISE INDICATED; GASKETED FITTING MATCHING STEEL-PIPE OD. INCLUDE DUCTILE-IRON HOUSING WITH KEYS MATCHING STEEL-PIPE AND FITTING GROOVES, PRELUBRICATED RUBBER GASKET LISTED FOR USE WITH HOUSING, AND STEEL BOLTS AND NUTS.

SPRINKLER SPECIALTY FITTINGS

A. SPRINKLER SPECIALTY FITTINGS SHALL BE UL LISTED WITH 175-PSIG MINIMUM WORKING-PRESSURE RATING, AND MADE OF MATERIALS COMPATIBLE WITH PIPING.

B. OUTLET SPECIALTY FITTINGS:

1. MECHANICAL-T AND -CROSS FITTINGS: UL 213, DUCTILE-IRON HOUSING WITH GASKETS, BOLTS AND NUTS, AND THREADED, LOCKING-LUG, OR GROOVED OUTLETS. FITTING SHALL PROVIDE STRAP THAT FULLY SURROUNDS THE PIPE BEING TAPPED. STRAPLESS FITTINGS SHALL NOT BE USED.

C. SPRINKLER DRAIN AND ALARM TEST FITTINGS: CAST- OR DUCTILE-IRON BODY; WITH THREADED OR LOCKING-LUG INLET AND OUTLET, TEST VALVE, AND ORIFICE AND SIGHT GLASS.

D. SPRINKLER BRANCH-LINE TEST FITTINGS: BRASS BODY WITH THREADED INLET, CAPPED DRAIN OUTLET, AND THREADED OUTLET FOR SPRINKLER.

E. SPRINKLER INSPECTOR'S TEST FITTING: CAST- OR DUCTILE-IRON HOUSING WITH THREADED INLET AND DRAIN OUTLET AND SIGHT GLASS.

LISTED FIRE-PROTECTION VALVES

A. VALVES SHALL BE UL LISTED WITH 175-PSIG MINIMUM PRESSURE RATING.

B. BALL VALVES: COMPLY WITH UL 1091, EXCEPT WITH BALL INSTEAD OF DISC.
1. NPS 1-1/2 AND SMALLER: BRONZE BODY WITH THREADED ENDS.

2. NPS 2 AND NPS 2-1/2: BRONZE BODY WITH THREADED ENDS OR DUCTILE-IRON BODY WITH GROOVED ENDS.

3. NPS 3: DUCTILE-IRON BODY WITH GROOVED ENDS.

C. BUTTERFLY VALVES: UL 1091.
1. NPS 2 AND SMALLER: BRONZE BODY WITH THREADED ENDS.

2. NPS 2-1/2 AND LARGER: BRONZE, CAST-IRON, OR DUCTILE-IRON BODY; WAFER TYPE OR WITH FLANGED OR GROOVED ENDS.

D. CHECK VALVES NPS 2 AND LARGER: UL 312, SWING TYPE, CAST-IRON BODY WITH FLANGED OR GROOVED ENDS.

E. GATE VALVES: UL 262, OS&Y TYPE.
1. NPS 2 AND SMALLER: BRONZE BODY WITH THREADED ENDS.

2. NPS 2-1/2 AND LARGER: CAST-IRON BODY WITH FLANGED ENDS.

F. INDICATING VALVES: UL 1091, WITH INTEGRAL INDICATING DEVICE AND ENDS MATCHING CONNECTING PIPING.

1. INDICATOR: ELECTRICAL, 115-V AC, PREWIRED, 2-CIRCUIT, SUPERVISORY SWITCH.

2. NPS 2 AND SMALLER: BALL OR BUTTERFLY VALVE WITH BRONZE BODY AND THREADED ENDS.

3. NPS 2-1/2 AND LARGER: BUTTERFLY VALVE WITH CAST- OR DUCTILE-IRON BODY; WAFER TYPE OR WITH FLANGED OR GROOVED ENDS.

UNLISTED GENERAL-DUTY VALVES

A. BALL VALVES NPS 2 AND SMALLER: MSS SP-110, 2-PIECE COPPER-ALLOY BODY WITH CHROME-PLATED BRASS BALL, 600-PSIG MINIMUM CWP RATING, BLOWOUT-PROOF STEM, AND THREADED ENDS.

B. CHECK VALVES NPS 2 AND SMALLER: MSS SP-80, TYPE 4, CLASS 125 MINIMUM, SWING TYPE WITH BRONZE BODY, NONMETALLIC DISC, AND THREADED ENDS.

C. GATE VALVES NPS 2 AND SMALLER: MSS SP-80, TYPE 2, CLASS 125 MINIMUM, WITH BRONZE BODY, SOLID WEDGE, AND THREADED ENDS.

D. GLOBE VALVES NPS 2 AND SMALLER: MSS SP-80, TYPE 2, CLASS 125 MINIMUM, WITH BRONZE BODY, NONMETALLIC DISC, AND THREADED ENDS.

SPECIALTY VALVES

A. SPRINKLER SYSTEM CONTROL VALVES: UL LISTED AMD FMG APPROVED, CAST- OR DUCTILE-IRON BODY WITH FLANGED OR GROOVED ENDS, AND 175-PSIG MINIMUM PRESSURE RATING.

MANUAL CONTROL STATIONS

A. MANUAL CONTROL STATIONS: UL LISTED HYDRAULIC OPERATION, WITH UNION, NPS 1/2 PIPE NIPPLE, AND BRONZE BALL VALVE. INCLUDE METAL ENCLOSURE LABELED "MANUAL CONTROL STATION" WITH OPERATING INSTRUCTIONS AND COVER HELD CLOSED BY BREAKABLE STRUT TO PREVENT ACCIDENTAL OPENING.

CONTROL PANELS

A. REFER TO ELECTRICAL DRAWINGS FOR AUTOMATIC FIRE DETECTION, ALARM, AND RELEASING PANELS.

SPRINKLERS

A. SPRINKLERS SHALL BE UL LISTED WITH 175-PSIG MINIMUM PRESSURE RATING.

B. AUTOMATIC SPRINKLERS: WITH HEAT-RESPONSIVE ELEMENT COMPLYING WITH THE FOLLOWING:

1. UL 199, FOR NONRESIDENTIAL APPLICATIONS.
2. SPRINKLER TYPES AND CATEGORIES: NOMINAL 1/2-INCH ORIFICE FOR "ORDINARY" TEMPERATURE CLASSIFICATION RATING, UNLESS OTHERWISE INDICATED OR REQUIRED BY APPLICATION.

C. SPRINKLER TYPES, FEATURES, AND OPTIONS AS FOLLOWS:

1. PENDENT SPRINKLERS.

2. QUICK-RESPONSE SPRINKLERS.

3. RECESSED SPRINKLERS, INCLUDING ESCUTCHEON.

4. SIDEWALL SPRINKLERS.

5. UPRIGHT SPRINKLERS.

D. SPRINKLER FINISHES: CHROME PLATED, BRONZE, AND PAINTED.

E. SPRINKLER ESCUTCHEONS: MATERIALS, TYPES, AND FINISHES FOR THE FOLLOWING SPRINKLER MOUNTING APPLICATIONS.

1. CEILING MOUNTING: CHROME-PLATED STEEL, ONE PIECE, FLAT.
2. SIDEWALL MOUNTING: CHROME-PLATED STEEL, ONE PIECE, FLAT.

F. SPRINKLER GUARDS: WIRE-CAGE TYPE, INCLUDING FASTENING DEVICE FOR ATTACHING TO SPRINKLER. (IN ALL MECHANICAL AND STORAGE AREAS).

PREPARATION

A. FIRE HYDRANT FLOW TEST DATA THAT IS PROVIDED ON THE CONTRACT DRAWINGS ARE FOR PRELIMINARY INFORMATION ONLY. PERFORM FIRE-HYDRANT FLOW TEST ACCORDING TO NFPA 13 AND NFPA 291. USE RESULTS FOR SYSTEM DESIGN CALCULATIONS REQUIRED IN PART 1 "QUALITY ASSURANCE" ARTICLE.

B. REPORT TEST RESULTS PROMPTLY AND IN WRITING.

PIPING APPLICATIONS, GENERAL

A. DO NOT USE WELDED JOINTS FOR GALVANIZED-STEEL PIPE.

B. FLANGES, FLANGED FITTINGS, UNIONS, NIPPLES, AND TRANSITION AND SPECIAL FITTINGS WITH FINISH AND PRESSURE RATINGS SAME AS OR HIGHER THAN SYSTEM'S PRESSURE RATING MAY BE USED IN ABOVEGROUND APPLICATIONS, UNLESS OTHERWISE INDICATED.

C. PIPING BETWEEN FIRE DEPARTMENT CONNECTIONS AND CHECK VALVES: GALVANIZED, STANDARD-WEIGHT STEEL PIPE WITH GROOVED ENDS; GROOVED-END FITTINGS; GROOVED-END-PIPE COUPLINGS; AND GROOVED JOINTS.

D. XL OR PLAIN END PIPING WILL NOT BE ACCEPTED.

SPRINKLER SYSTEM PIPING APPLICATIONS

A. STANDARD-PRESSURE, SPRINKLER SYSTEM, 175-PSIG MAXIMUM WORKING PRESSURE:

1. SPRINKLER-PIPING FITTING OPTION: SPECIALTY SPRINKLER FITTINGS, NPS 2" AND SMALLER, INCLUDING MECHANICAL-T AND -CROSS FITTINGS, MAY BE USED DOWNSTREAM FROM SPRINKLER ZONE VALVES.

2. NPS 2" AND SMALLER: THREADED-END, STANDARD-WEIGHT STEEL PIPE; MALLEABLE-IRON THREADED FITTINGS; AND THREADED JOINTS.

3. NPS 2-1/2" TO NPS 6": GROOVED-END, GALVANIZED, SCHEDULE 10 STEEL PIPE; GROOVED-END FITTINGS; GROOVED-END-PIPE COUPLINGS; AND GROOVED JOINTS.

VALVE APPLICATIONS

A. DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:

1. LISTED FIRE-PROTECTION VALVES: UL LISTED AND FMG APPROVED FOR APPLICATIONS WHERE REQUIRED BY NFPA 13.

a. SHUTOFF DUTY: USE BUTTERFLY OR GATE VALVES, OR OS&Y.

2. UNLISTED GENERAL-DUTY VALVES: FOR APPLICATIONS WHERE UL-LISTED ARE NOT REQUIRED BY NFPA 13.
a. SHUTOFF DUTY: USE BALL, BUTTERFLY, OR GATE VALVES.
b. THROTTLING DUTY: USE BALL OR GLOBE VALVES.

JOINT CONSTRUCTION

A. THREADED JOINTS: COMPLY WITH NFPA 13 FOR PIPE THICKNESS AND THREADS. DO NOT THREAD PIPE SMALLER THAN NPS 8" WITH WALL THICKNESS LESS THAN SCHEDULE 40 UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION AND THREADS ARE CHECKED BY A RING GAGE AND COMPLY WITH ASME B1.20.1.

B. GROOVED JOINTS: ASSEMBLE JOINTS WITH LISTED COUPLING AND GASKET, LUBRICANT, AND BOLTS.

1. STEEL PIPE: SQUARE-CUT OR ROLL-GROOVE PIPING AS INDICATED. USE GROOVED-END FITTINGS AND RIGID, GROOVED-END-PIPE COUPLINGS, UNLESS OTHERWISE INDICATED.

PIPING INSTALLATION

A. LOCATIONS AND ARRANGEMENTS: DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING. INSTALL PIPING AS INDICATED, AS FAR AS PRACTICAL.

1. DEVIATIONS FROM APPROVED WORKING PLANS FOR PIPING REQUIRE WRITTEN APPROVAL FROM AUTHORITIES HAVING JURISDICTION. FILE WRITTEN APPROVAL WITH ARCHITECT BEFORE DEVIATING FROM APPROVED WORKING PLANS.

B. USE APPROVED FITTINGS TO MAKE CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.

C. INSTALL UNIONS ADJACENT TO EACH VALVE IN PIPES NPS 2" AND SMALLER. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES OR IN PIPING INSTALLATIONS USING GROOVED JOINTS.

D. INSTALL FLANGES OR FLANGE ADAPTERS ON VALVES, APPARATUS, AND EQUIPMENT HAVING NPS 2-1/2" AND LARGER CONNECTIONS.

E. INSTALL "INSPECTOR'S TEST CONNECTIONS" IN SPRINKLER SYSTEM PIPING, COMPLETE WITH SHUTOFF VALVE, SIZED AND LOCATED ACCORDING TO NFPA 13 AND FM DATA SHEET 2-8N.

F. INSTALL SPRINKLER PIPING WITH DRAINS FOR COMPLETE SYSTEM DRAINAGE.

G. INSTALL BALL DRIP VALVES TO DRAIN PIPING BETWEEN FIRE DEPARTMENT CONNECTIONS AND CHECK VALVES. DRAIN TO FLOOR DRAIN OR OUTSIDE BUILDING.

H. INSTALL ALARM DEVICES IN PIPING SYSTEMS.

I. HANGERS AND SUPPORTS: COMPLY WITH NFPA 13 FOR HANGER MATERIALS.

1. INSTALL SPRINKLER SYSTEM PIPING ACCORDING TO NFPA 13 .

J. INSTALL PRESSURE GAGES ON BOTH SIDES OF ALL SYSTEM CHECK VALVES (EXCEPTION: FDC CHECK VALVE), AND AT EACH SPRINKLER TEST CONNECTION. INCLUDE PRESSURE GAGES WITH CONNECTION NOT LESS THAN NPS 1/4 AND WITH SOFT METAL SEATED GLOBE VALVE, ARRANGED FOR DRAINING PIPE BETWEEN GAGE AND VALVE. INSTALL GAGES TO PERMIT REMOVAL, AND INSTALL WHERE THEY WILL NOT BE SUBJECT TO FREEZING.

3.8 VALVE INSTALLATION

A. INSTALL LISTED FIRE-PROTECTION VALVES, UNLISTED GENERAL-DUTY VALVES, SPECIALTY VALVES AND TRIM, CONTROLS, AND SPECIALTIES ACCORDING TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION.

B. INSTALL LISTED FIRE-PROTECTION SHUTOFF VALVES SUPERVISED-OPEN, LOCATED TO CONTROL SOURCES OF WATER SUPPLY EXCEPT FROM FIRE DEPARTMENT CONNECTIONS. INSTALL PERMANENT IDENTIFICATION SIGNS INDICATING PORTION OF SYSTEM CONTROLLED BY EACH VALVE.

C. INSTALL CHECK VALVE IN EACH WATER-SUPPLY CONNECTION.

SPRINKLER APPLICATIONS

A. USE THE FOLLOWING SPRINKLER TYPES FOR NEW SYSTEMS:

1. ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS.

2. ROOMS WITH SUSPENDED CEILINGS: FLUSH CONCEALED SPRINKLERS WITH COVER PLATE.

3. WALL MOUNTING: SIDEWALL SPRINKLERS.

4. SPECIAL APPLICATIONS: QUICK RESPONSE SPRINKLERS SHALL BE INSTALLED IN ALL AREAS.

5. ORDINARY TEMPERATURE SPRINKLERS SHALL BE USED THROUGHOUT PROVIDE TEMPERATURE RATING AS REQUIRED BY NFPA 13 FOR SPRINKLERS ADJACENT TO HEAT SOURCES.

6. SPRINKLER FINISHES:

a. UPRIGHT, PENDENT, AND SIDEWALL SPRINKLERS: CHROME PLATED IN FINISHED SPACES EXPOSED TO VIEW; ROUGH BRONZE IN UNFINISHED SPACES.

SPRINKLER INSTALLATION

A. INSTALL SPRINKLERS IN SUSPENDED CEILINGS IN CENTER OF ACOUSTICAL CEILING PANELS AND TILES.

B. INSTALL PENDENT SPRINKLERS ON RETURN BENDS CONNECTED TO BRANCH LINES AT THE TOP OF THE BRANCH LINE.

CONNECTIONS

A. DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING.

B. INSTALL PIPING ADJACENT TO EQUIPMENT TO ALLOW SERVICE AND MAINTENANCE.

C. INSTALL BALL DRIP VALVES AT EACH CHECK VALVE FOR FIRE DEPARTMENT CONNECTION. DRAIN TO FLOOR DRAIN OR OUTSIDE BUILDING.

D. CONNECT PIPING TO SPECIALTY VALVES, HOSE VALVES, SPECIALTIES, FIRE DEPARTMENT CONNECTIONS, AND ACCESSORIES.

E. ELECTRICAL CONNECTIONS: POWER WIRING IS SPECIFIED IN DIVISION 16.

F. FIRE ALARM DEVICES MONITORING SPRINKLER SYSTEM SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR BUT WIRED BY THE FIRE ALARM CONTRACTOR.

LABELING AND IDENTIFICATION

A. INSTALL LABELING AND PIPE MARKERS ON EQUIPMENT AND PIPING ACCORDING TO REQUIREMENTS IN NFPA 13.

FIELD QUALITY CONTROL

A. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

1. LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.

2. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

3. FLUSH, TEST, AND INSPECT SPRINKLER SYSTEMS ACCORDING TO NFPA 13, "SYSTEMS ACCEPTANCE" CHAPTER.

4. COORDINATE WITH FIRE ALARM TESTS. OPERATE AS REQUIRED.

5. VERIFY THAT EQUIPMENT HOSE THREADS ARE SAME AS LOCAL FIRE DEPARTMENT EQUIPMENT.

B. REPORT TEST RESULTS PROMPTLY AND IN WRITING TO ARCHITECT AND AUTHORITIES HAVING JURISDICTION.

CLEANING AND PROTECTION

A. CLEAN DIRT AND DEBRIS FROM SPRINKLERS.

B. PROTECT SPRINKLERS FROM DAMAGE UNTIL SUBSTANTIAL COMPLETION.

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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
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☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
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REVISIONS/ADDENDUMS

FIRE PROTECTION SPECIFICATIONS

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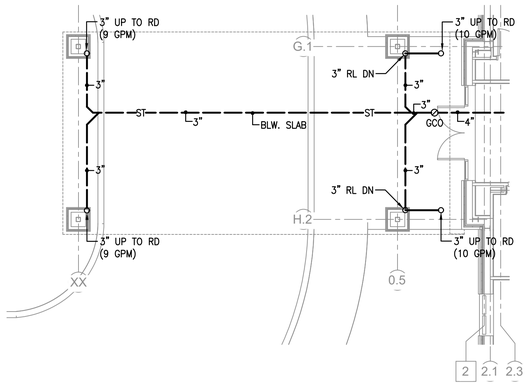

ADD ALTERNATE NO.1 – FLOOR PLAN

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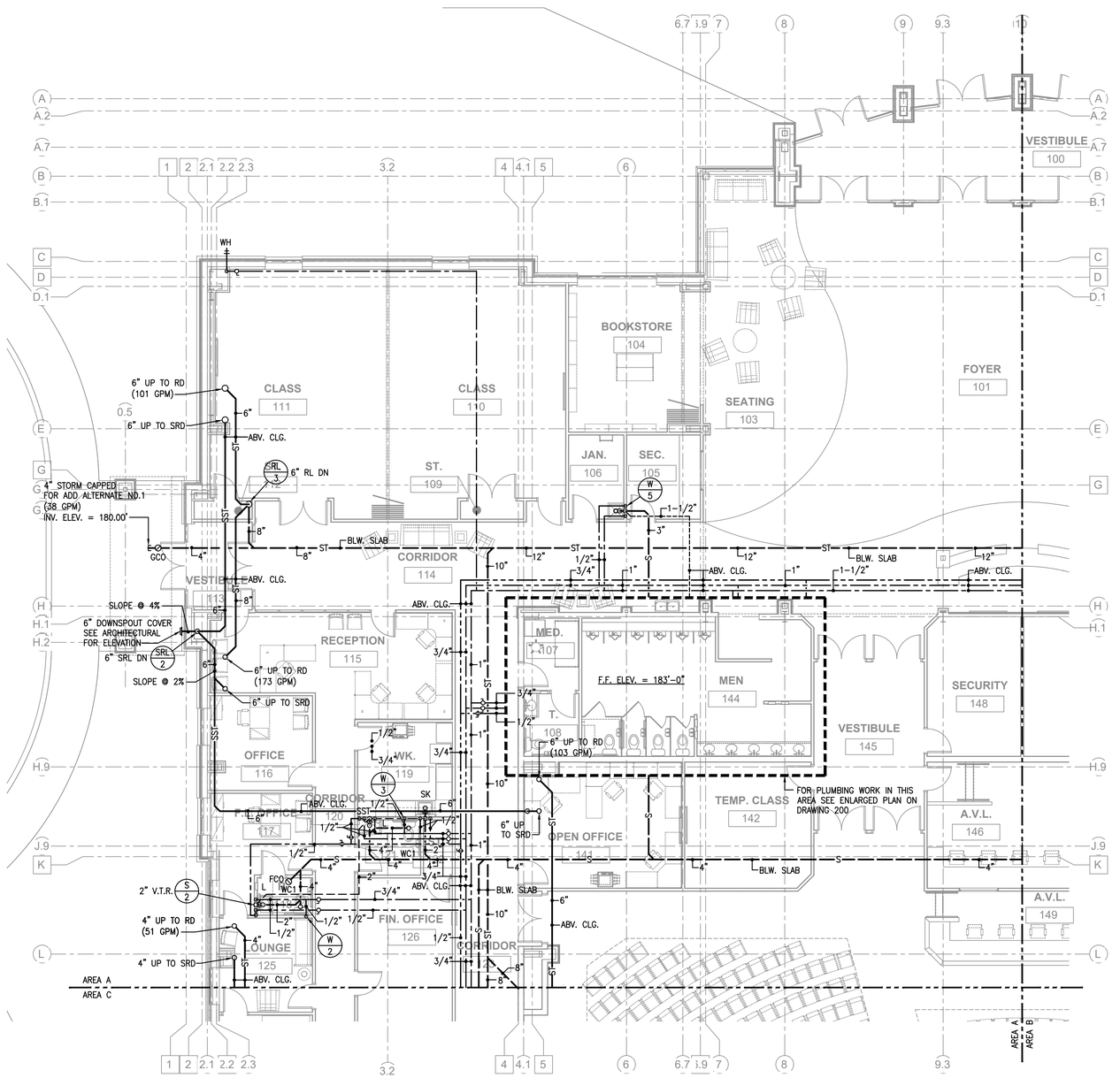

AREA A FLOOR PLAN

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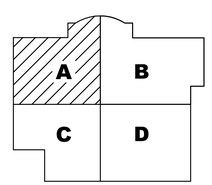

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AREA A FLOOR PLAN

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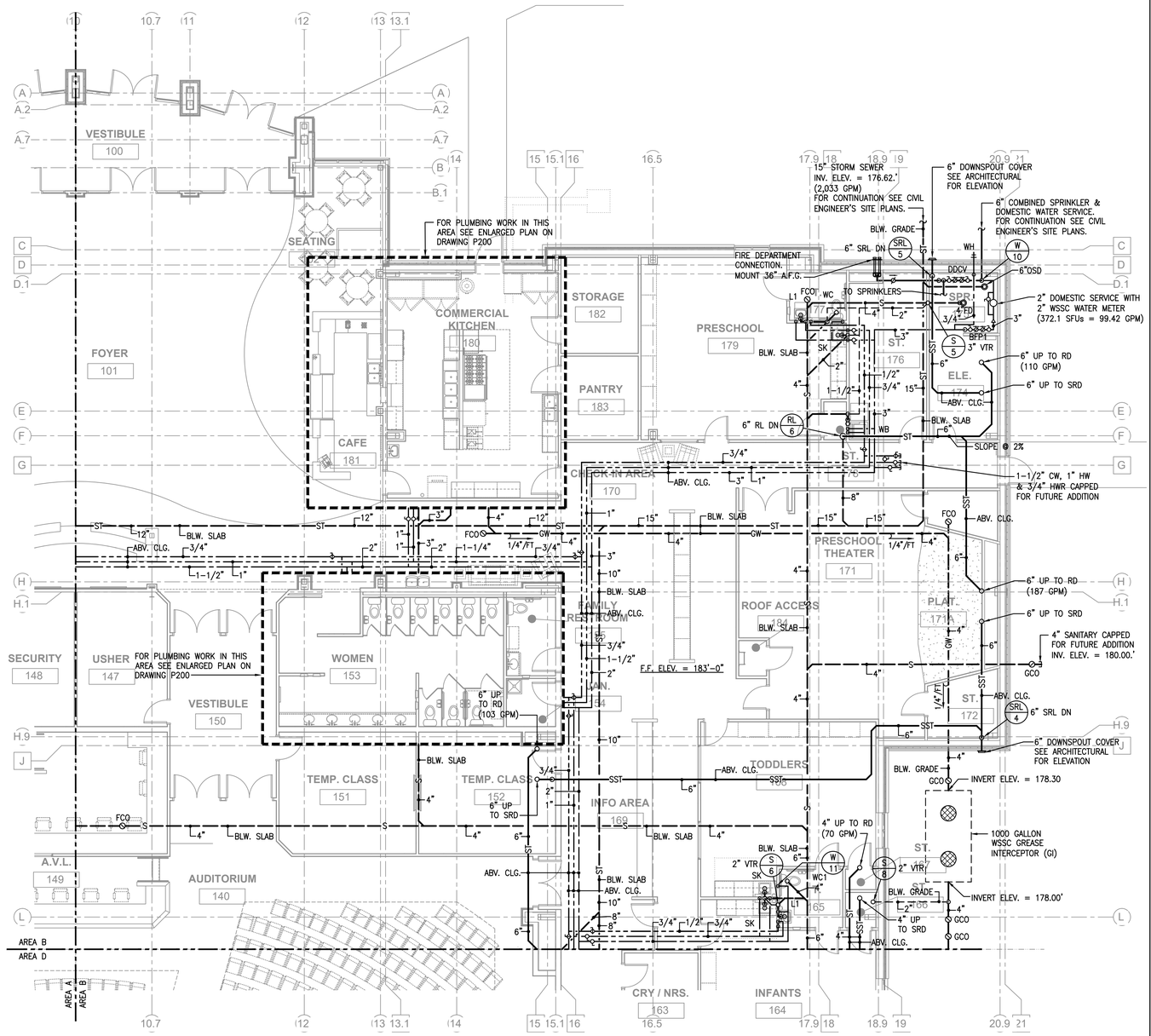
5 OF 13 SHEETS



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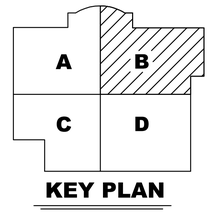

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REVISIONS/ADDENDUMS

AREA B FLOOR PLAN

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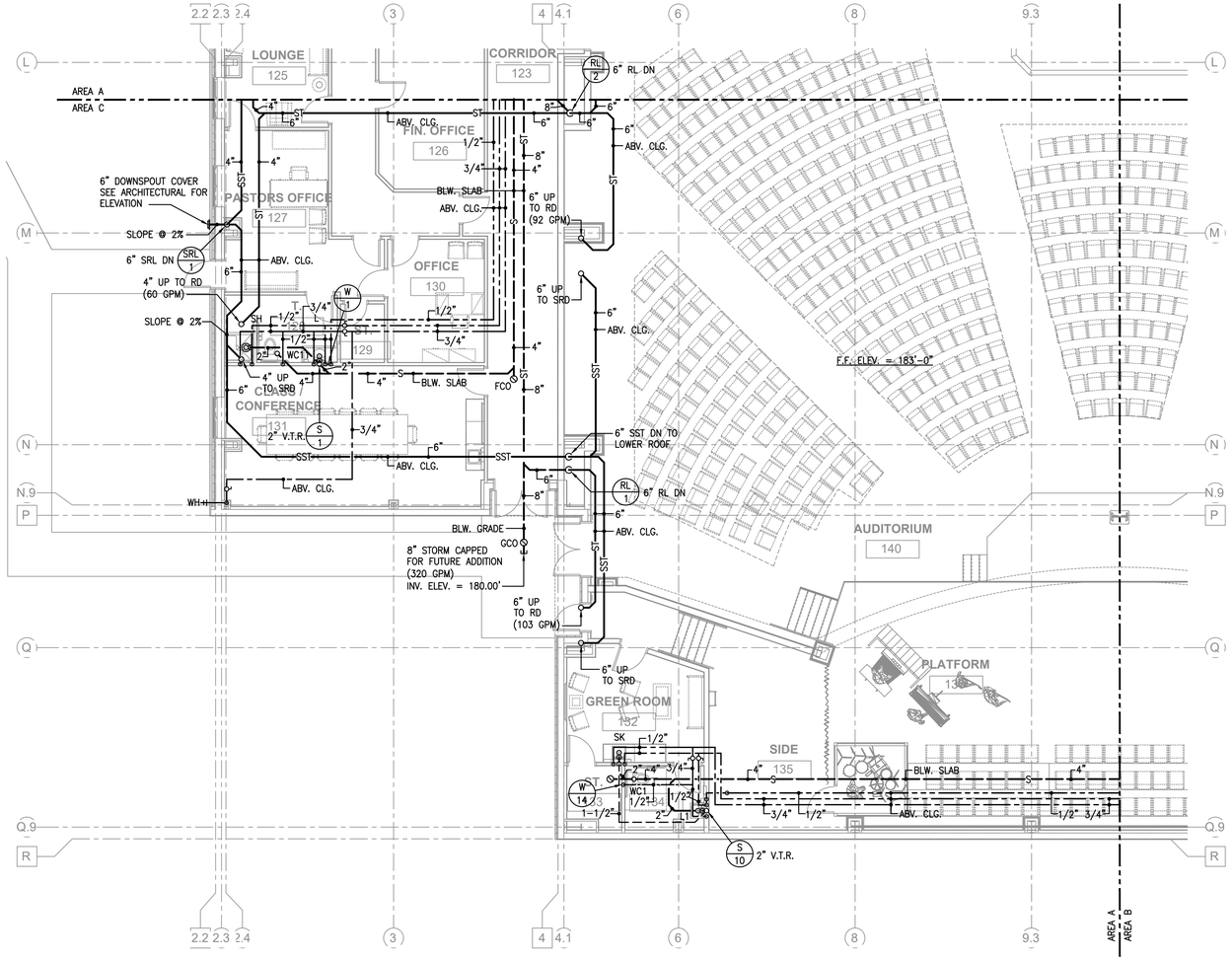

AREA C FLOOR PLAN

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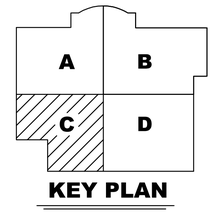

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AREA C FLOOR PLAN

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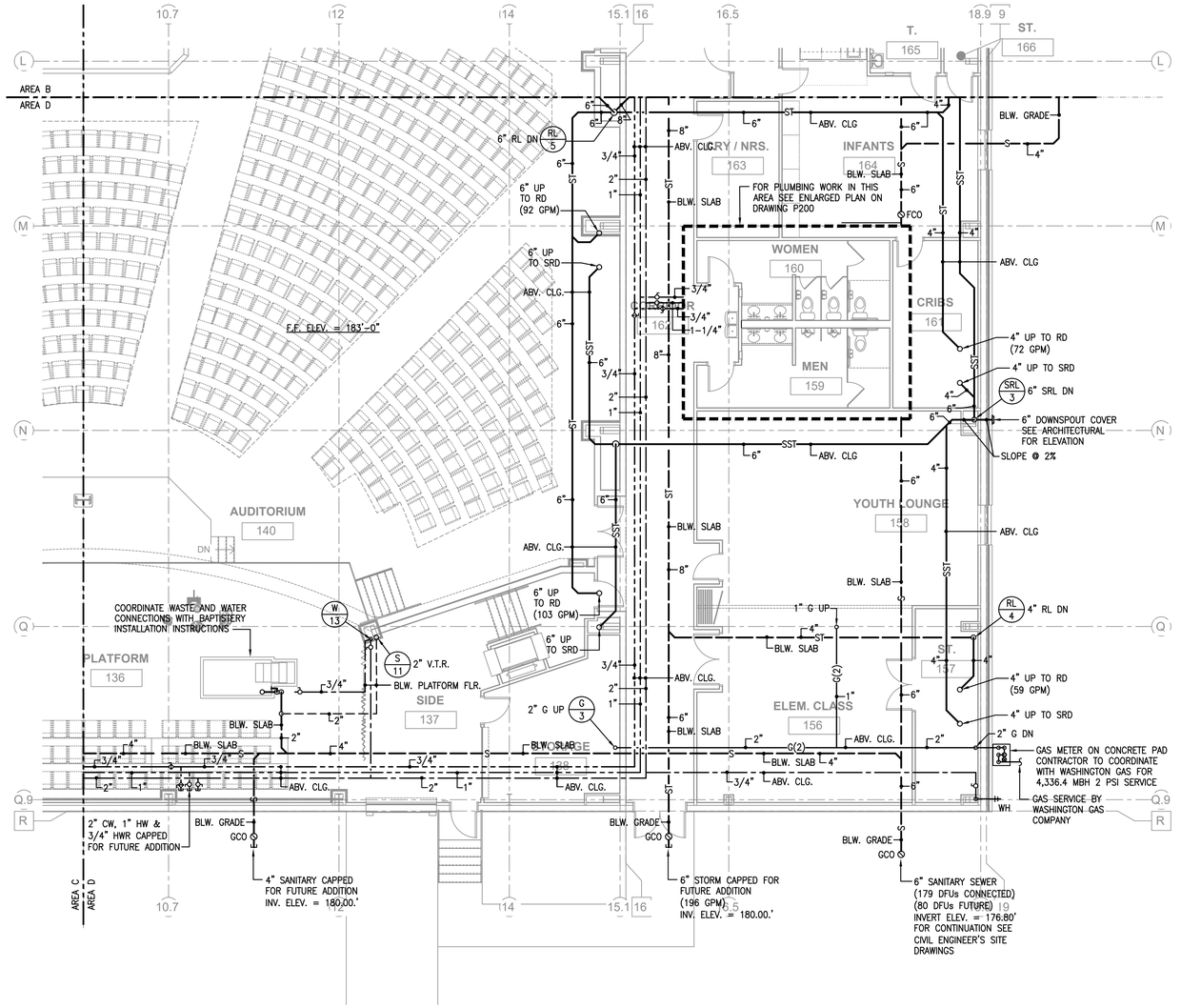

AREA D FLOOR PLAN

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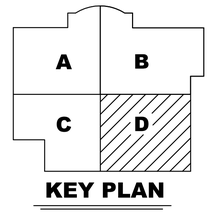

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REVISIONS/ADDENDUMS

AREA D FLOOR PLAN

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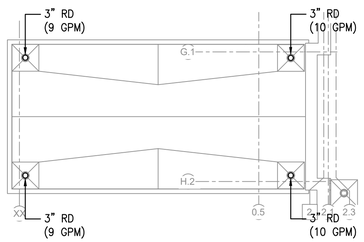
8 OF 13 SHEETS

WORK IN THIS AREA IS AFFECTED BY ADD ALTERNATE #1, SEE ADD ALTERNATE SHEET A901



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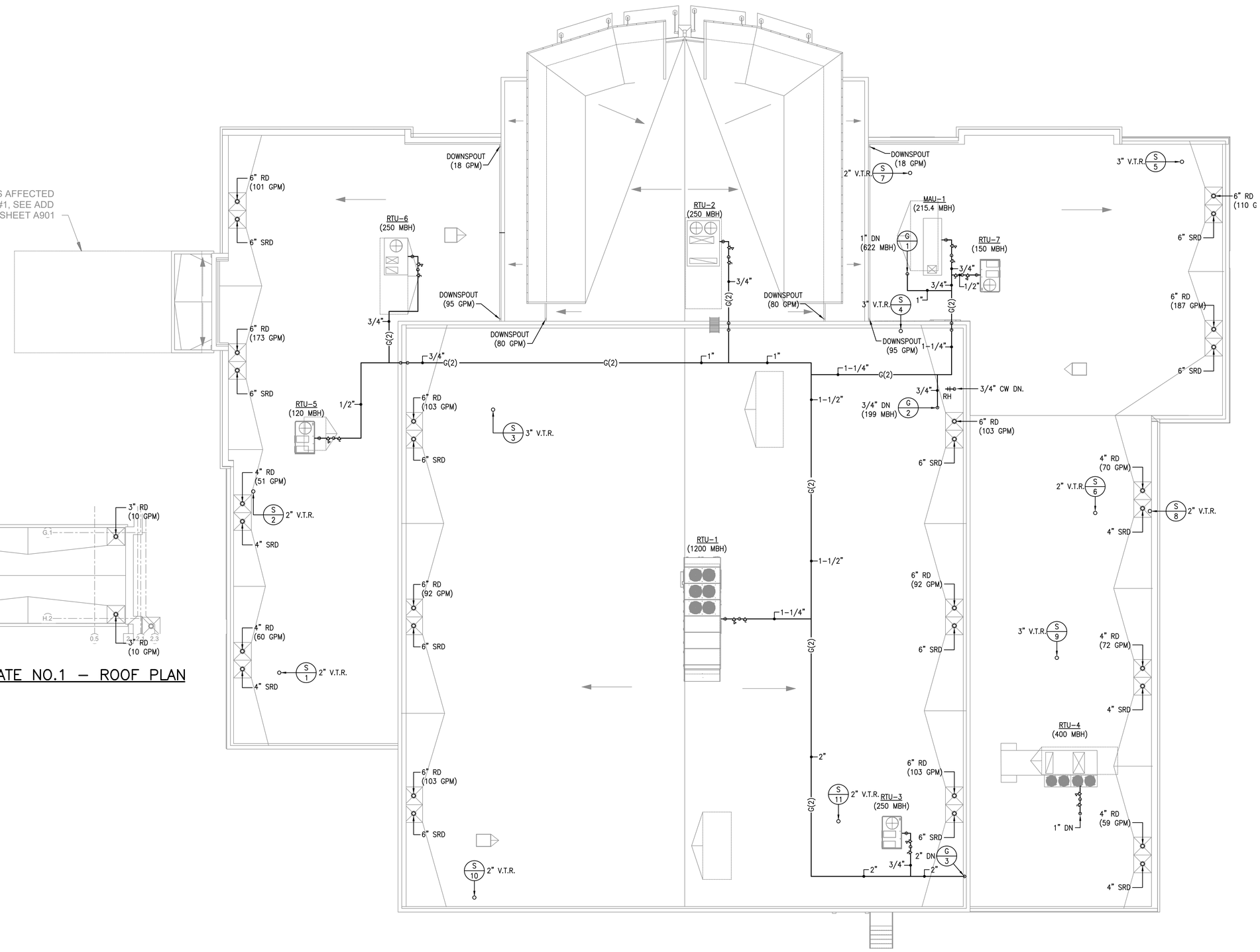

ROOF PLAN
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☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

ROOF PLAN

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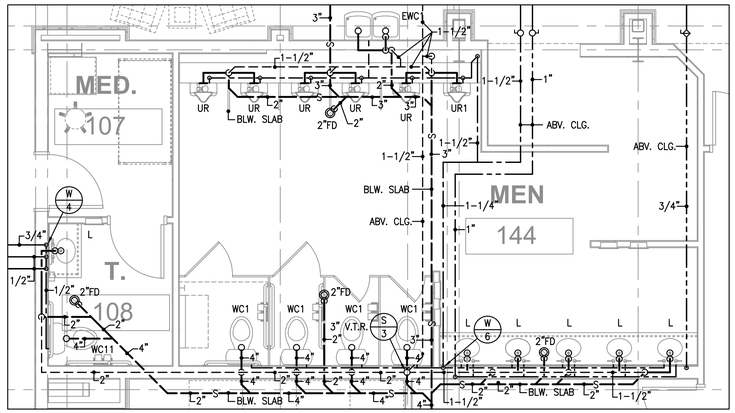
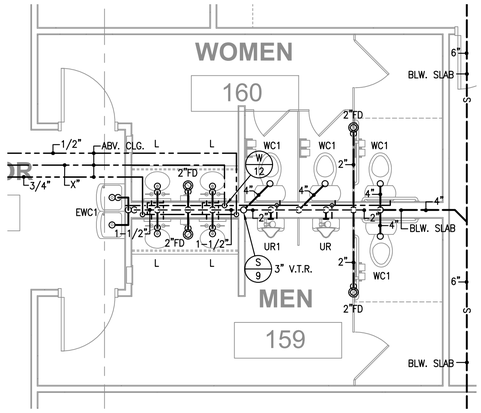
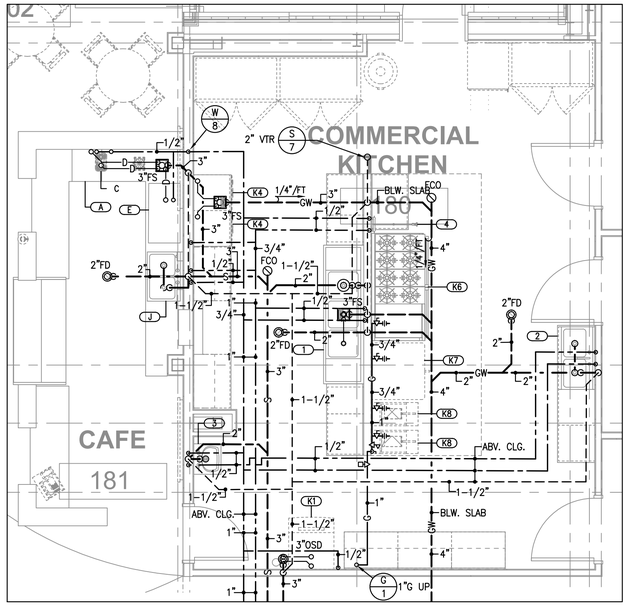


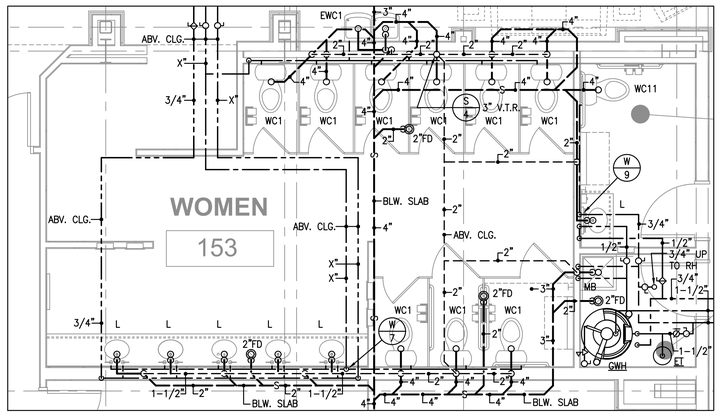
MEN 144 / TOILET 108 FLOOR PLAN
SCALE: 1/4" = 1'-0"



MEN 159 / WOMEN 160 FLOOR PLAN
SCALE: 1/4" = 1'-0"



KITCHEN / CAFE FLOOR PLAN
SCALE: 1/4" = 1'-0"



WOMEN 153 FLOOR PLAN
SCALE: 1/4" = 1'-0"

KITHCEN PLUMBING FIXTURE SCHEDULE

NO.	TYPE OF FIXTURE	MANUFACTURER/MODEL NO.	FAUCET / FLUSH VALVE	ACCESSORIES
1	THREE COMPARTMENT SINK	ADVANCE TABCO MODEL NO. 9-3-54-18RL, REGALINE SINK WITH 3-16"X20" BOWLS, 2-18" DRAINBOARDS, 18 GAUGE STAINLESS STEEL.	KROWNE MODEL NO. K-17-109WL, 8" CENTER, WALL MOUNTED, PRE-RINSE, STAINLESS STEEL HOSE, 36" HIGH, 15" OVERHANG WITH ADD ON FAUCET WITH 12" SPOUT. 1.2 GPM.	IN-SINK-ERATOR MODEL POWER SERIES NO. 80019-ISE, 3/4 HP, 120V POWER SERIES CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.
2	TWO COMPARTMENT SINK	ELKAY MODEL NO. LRAD291865, "LUSTERTONE", RECTANGULAR, COUNTER MOUNT, SINGLE HOLE, STAINLESS STEEL FINISH, FURNISH WITH DRAINS AND STRAINERS.	ELKAY MODEL NO. LK6000, "EVERYDAY", PULL DOWN SPRAY, SINGLE LEVER, SWING SPOUT, DECK MOUNTED, SINGLE HOLE, 1.5 GPM, CHROME	1-1/4" X 1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.
3	HAND SINK	ADVANCE TABCO MODEL NO. 7-PS-40, STAINLESS STEEL, WITH SIDE SPLASH, BASKET DRAIN, AND GOOSENECK FAUCET.	FURNISHED WITH SINK.	1-1/4" X 1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.
4	POT FILLER FAUCET	FISHER MODEL NO. 57614, ADJUSTABLE WALL FAUCET WITH 12" CONTROL SWING SPOUT, 7" DJ WITH WRIST HANDLES.		
J	TWO COMPARTMENT SINK	ELKAY MODEL NO. LRAD332255, "LUSTERTONE", RECTANGULAR, COUNTER MOUNT, SINGLE HOLE, STAINLESS STEEL FINISH. FURNISH WITH DRAINS AND STRAINERS.	ELKAY MODEL NO. LK6000, "EVERYDAY", PULL DOWN SPRAY, SINGLE LEVER, SWING SPOUT, DECK MOUNTED, SINGLE HOLE, 1.5 GPM, CHROME	1-1/4" X 1-1/2" CHROME PLATED "P" TRAP. CHROME PLATED SUPPLIES AND LOOSE KEY STOPS.

NOTES:

KITCHEN AND CAFE EQUIPMENT CONNECTION SCHEDULE

ITEM NO.	QTY.	EQUIPMENT CATEGORY	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN)	INDIRECT DRAIN SIZE (IN)	INDIRECT DRAIN AFF (IN)	GAS SIZE (IN)	MBH	GAS AFF (IN)	REMARKS
K1	1	ICE MACHINE W/ BIN	1/2"	80"					(2) 3/4"	TO FS				PROVIDED BY OWNER, CONTRACTOR INSTALLED
K4	2	DISHWASHER	1/2"	18"	1/2"	18"			2"	TO FS				PROVIDED BY OWNER, CONTRACTOR INSTALLED
K6	1	RANGE WITH GRIDDLE AND 2 OVENS									1"	278	18"	PROVIDED BY OWNER, CONTRACTOR INSTALLED
K7	1	DOUBLE DECK CONVECTION OVEN									3/4"	50	18"	PROVIDED BY OWNER, CONTRACTOR INSTALLED
											3/4"	50	18"	
K8	2	FRYER									3/4"	122	18"	PROVIDED BY OWNER, CONTRACTOR INSTALLED
1	1	THREE COMPARTMENT SINK	(2) 1/2"	18"	(2) 1/2"	18"			(3) 1-1/2"	TO (2) FS				CONTRACTOR FURNISHED & INSTALLED
2	1	TWO COMPARTMENT SINK	1/2"	18"	1/2"	18"	1-1/2"							CONTRACTOR FURNISHED & INSTALLED
3	1	HAND SINK	1/2"	18"	1/2"	18"	1-1/2"							CONTRACTOR FURNISHED & INSTALLED PROVIDE TEMPERING VALVE SET @ 95'F
4	1	POT FILLER FAUCET	1/2"	48"	1/2"	48"								CONTRACTOR FURNISHED & INSTALLED
A	1	UNDERCOUNTER ICE MACHINE	1/2"	80"					3/4"	TO FS				PROVIDED BY OWNER, CONTRACTOR INSTALLED
C	1	COFFEE MAKER	1/2"	48"										PROVIDED BY OWNER, CONTRACTOR INSTALLED
E	1	EXPRESSO MACHINE	1/2"	48"					3/4"	TO FS				PROVIDED BY OWNER, CONTRACTOR INSTALLED
J	1	TWO COMPARTMENT SINK	1/2"	18"	1/2"	18"	1-1/2"							CONTRACTOR FURNISHED & INSTALLED

NOTES:

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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

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Engineering Services
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Kensington, MD 20895
Phone: 301 949-2068 • Fax: 301 949-2069
Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

ENLARGED FLOOR PLANS

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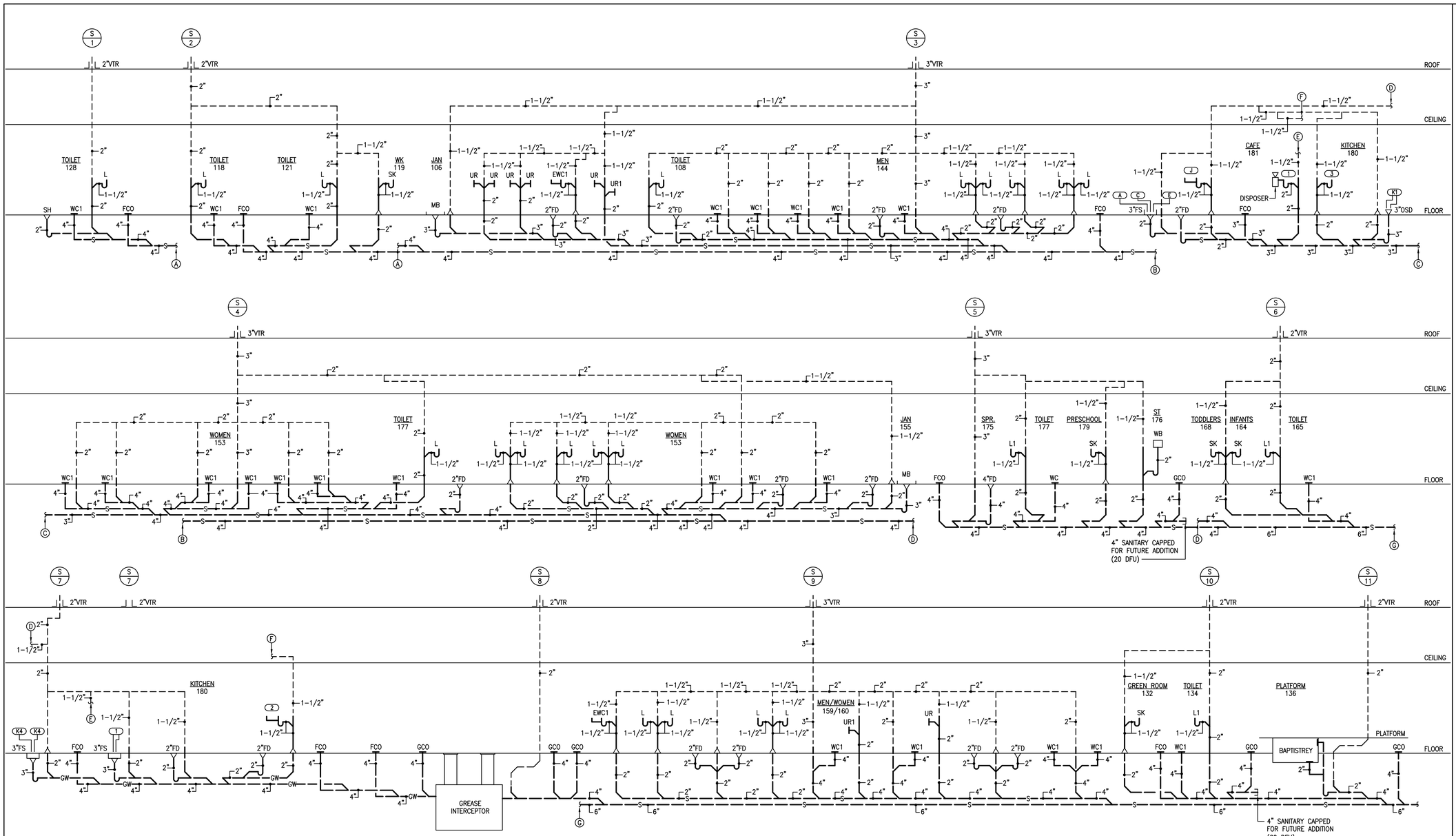

SANITARY WASTE & VENT RISER DIAGRAMS

NO SCALE

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REVISIONS/ADDENDUMS

SANITARY WASTE & VENT RISER DIAGRAMS

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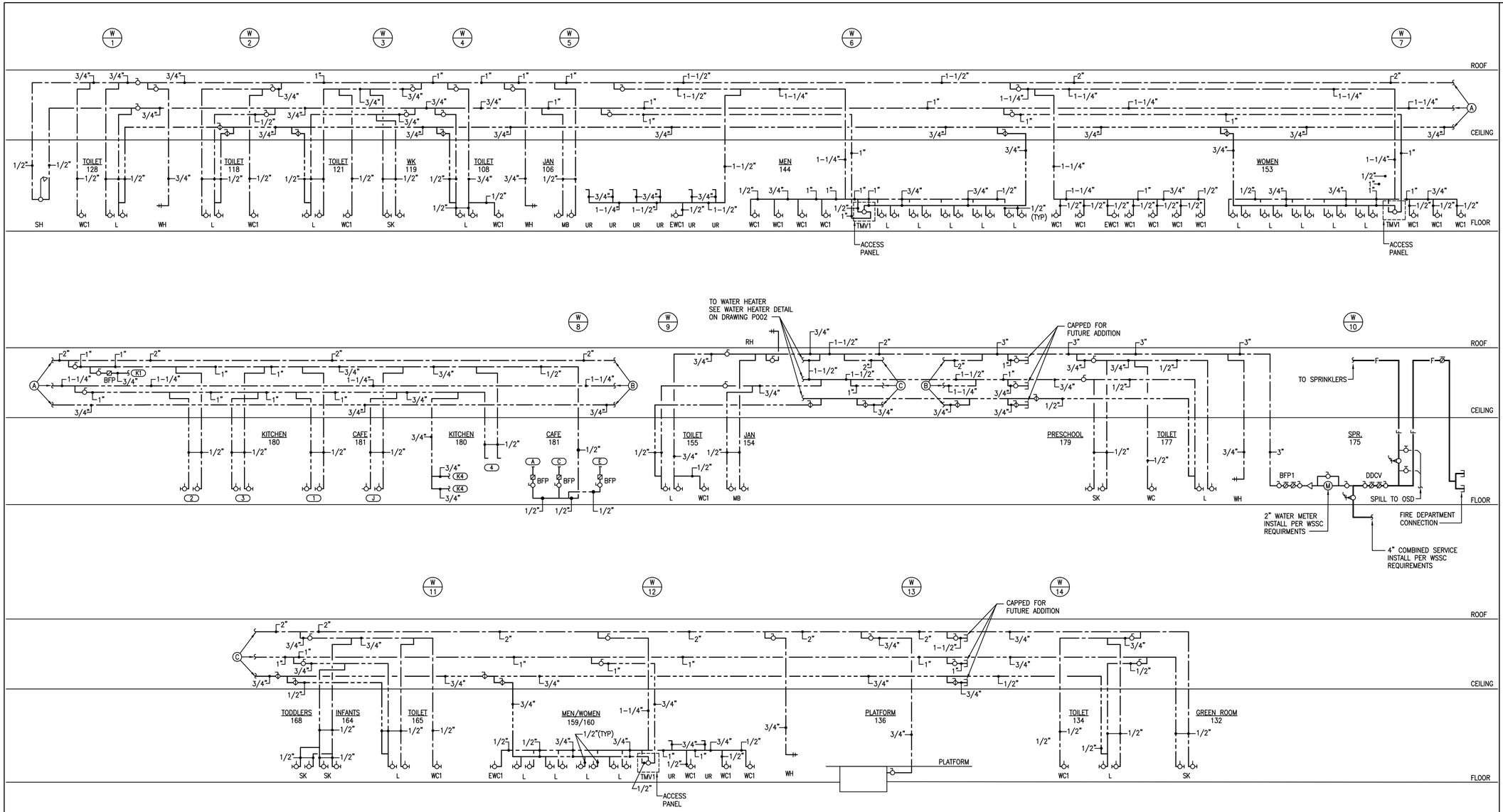

WATER RISER DIAGRAMS

NO SCALE

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REVISIONS/ADDENDUMS

WATER RISER DIAGRAMS

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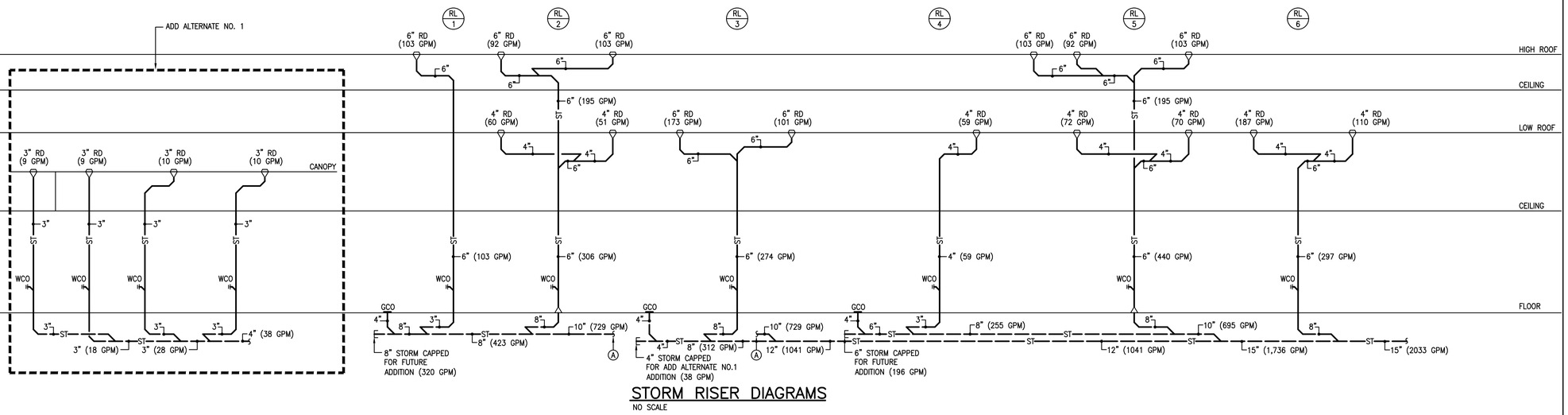
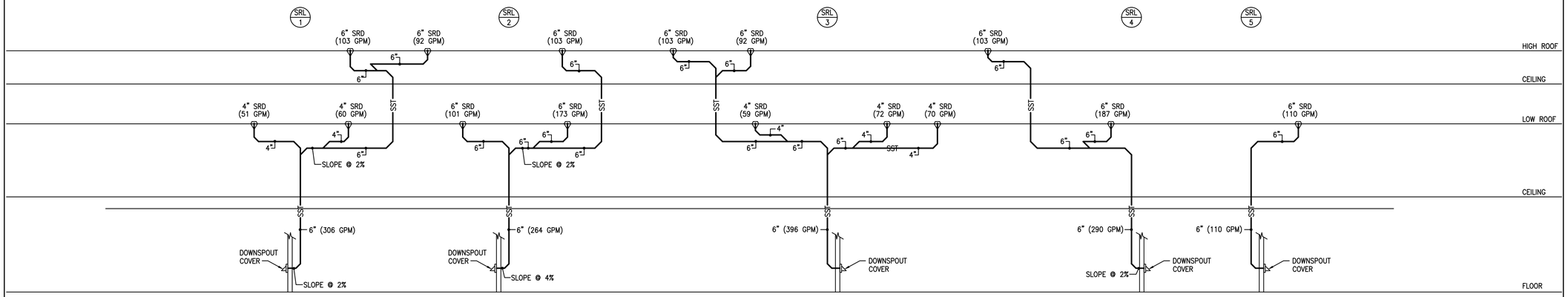


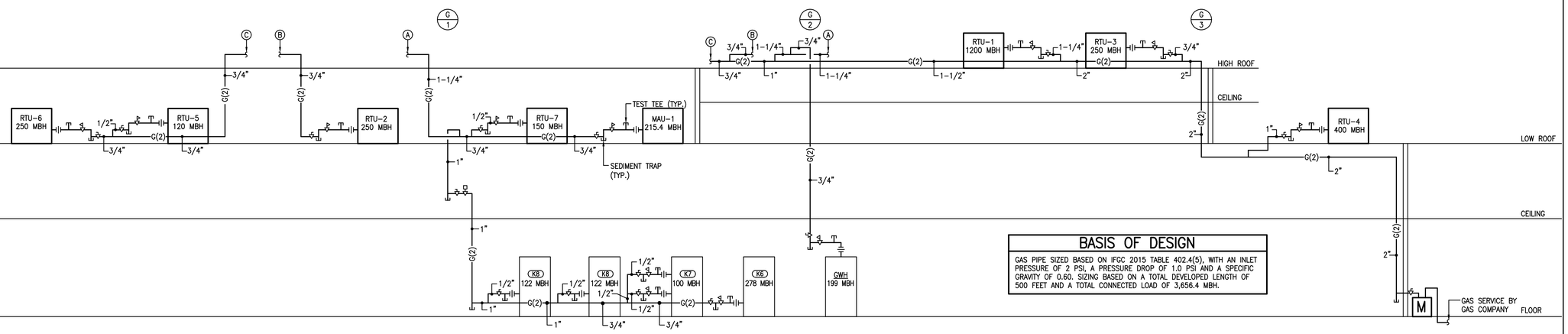
STORM RISER DIAGRAMS

NO SCALE



SECONDARY STORM RISER DIAGRAMS

NO SCALE



NATURAL GAS RISER DIAGRAMS

NO SCALE

BASIS OF DESIGN

GAS PIPE SIZED BASED ON IFGC 2015 TABLE 402.4(5), WITH AN INLET PRESSURE OF 2 PSI, A PRESSURE DROP OF 1.0 PSI AND A SPECIFIC GRAVITY OF 0.60. SIZING BASED ON A TOTAL DEVELOPED LENGTH OF 500 FEET AND A TOTAL CONNECTED LOAD OF 3,656.4 MBH.

5 4 3 2 1

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☐ PERMIT SET	

REVISIONS/ADDENDUMS

STORM AND NATURAL GAS RISER DIAGRAMS

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GENERAL SPECIFICATIONS

1. CODE COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH ALL THE LAWS, ORDINANCES, RULES, AND REGULATIONS OF THE LOCAL GOVERNMENT, OF THE NATIONAL FIRE PROTECTION ASSOCIATION, OF THE NATIONAL ELECTRIC CODE, AND OF THE PUBLIC UTILITIES HAVING JURISDICTION OVER ANY OF THE SYSTEMS HERE IN SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL NECESSARY PERMITS, APPROVALS, AND INSPECTIONS.

2. DEFINITIONS:
   A. "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
   B. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
   C. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
   D. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS.

3. SCOPE OF WORK: PROVIDE ALL WORK INDICATED IN THE CONTRACT DOCUMENTS.

4. CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. ATTENTION IS CALLED TO THE FACT THAT WHILE THE DOCUMENTS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD. IN ADDITION, THE CONTRACT DOCUMENTS ARE NOT TO BE CONSIDERED AS CONSTRUCTION DRAWINGS. THE DOCUMENTS DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, VALVE, PULL BOX OR SIMILAR COMPONENTS WHICH ARE REQUIRED TO COMPLETE THE PROJECT WORK. PREPARE FIELD CONSTRUCTION DRAWINGS AS REQUIRED TO INSURE PROPER INSTALLATION. ALL NECESSARY OFFSETS AND FITTINGS, TO INSTALL THE SYSTEMS AS DIAGRAMMED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

5. EQUIPMENT AND MATERIALS:
   A. ALL EQUIPMENT AND MATERIALS INSTALLED SHALL BE NEW, UNLESS INDICATED OTHERWISE, AND THE CURRENT MODEL FOR WHICH REPLACEMENT PARTS ARE AVAILABLE. SUBSTITUTIONS WILL ONLY BE ACCEPTED AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE OR THE ENGINEER.
   B. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, THE CONTRACTOR SHALL FOLLOW THE MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
   C. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS COMPLETE.
   D. ALL EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.

6. SHOP DRAWINGS: EQUIPMENT (AND MATERIALS) SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE EQUIPMENT OR MATERIALS PURCHASE AND INSTALLATION. IF ANY EQUIPMENT OR MATERIALS ARE INSTALLED BEFORE THEY ARE ACCEPTED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT, AT NO EXTRA CHARGE TO THE OWNER, IF IN THE OPINION OF THE ENGINEER THE EQUIPMENT OR MATERIAL DOES NOT COMPLY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

7. COORDINATION: THE CONTRACTOR SHALL INSTALL ALL DUCTWORK, PIPING, RACEWAYS, CIRCUITRY, CONDUIT, ETC., AS HIGH AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS IN A NEAT WORKMANLIKE MANNER. AVOID CONFLICT WITH THE EXISTING EQUIPMENT, LIGHTS, ETC. IF CONFLICT WITH THE EXISTING DOES OCCUR, THE CONTRACTOR SHALL RE-ROUTE CONFLICTING PROJECT WORK AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

8. PARTITIONS AND DUCTWORK: THE CONTRACTOR SHALL REPAIR ALL OPENINGS IN WALLS, CEILINGS, FLOORS, ROOF, ETC., WHICH ARE CREATED BY DEMOLITION AND/OR NEW PROJECT WORK. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH THE EXISTING. ANY OPENINGS AND/OR PENETRATIONS OF FIRE RATED PARTITIONS SHALL BE SEALED WITH U.L. APPROVED FIRE STOPPING MATERIALS TO MAINTAIN THE FIRE-RESISTANT INTEGRITY OF THE PARTITION. ALL OPENINGS IN DUCTWORK AND PIPING, AS A RESULT OF DEMOLITION WORK, SHALL BE CAPPED AND SEALED AIR/WATER-TIGHT AND INSULATED TO MATCH EXISTING.

9. SITE CLEAN-UP: UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO WASHING AND/OR REPAIRING GLASS, REMOVING SPOTS AND STAINS, CLEANING ALL FIXTURES AND WASHING ALL FLOORS, WALLS, AND CEILINGS (IF APPROPRIATE).

10. GUARANTEES: ALL NEW EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED IN FULL, FROM DEFECT, FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK BY THE OWNER'S REPRESENTATIVE UNLESS OTHERWISE NOTED. SUCH DEFECTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

11. TESTS AND DEMONSTRATIONS: THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATION(S).

12. EQUIPMENT SERVICE ACCESS: PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AND PARTITIONS TO SERVICE EQUIPMENT, BALANCE DIFFUSERS, AND EXPOSE JUNCTION BOXES. COORDINATE THE EXACT LOCATIONS AND STYLE OF FLANGELESS ACCESS DOORS WITH THE ARCHITECT.

13. EQUIPMENT IDENTIFICATION: ALL EQUIPMENT SHALL BE IDENTIFIED BY LABELING THE TITLE OF THE EQUIPMENT AS DETERMINED BY THE OWNER'S REPRESENTATIVE. IF THE OWNER'S REPRESENTATIVE DOES NOT EXPRESS A PREFERENCE, THEN THE IDENTIFICATION SHALL BE TAKEN FROM THE DRAWINGS AND LOCATED IN A POSITION THAT IS CLEARLY VISIBLE. THE LETTERS SHALL BE NO LESS THAN 2-INCHES HIGH.

14. THE CONTRACTOR SHALL AT ALL TIMES AND ON A CONTINUING BASIS, KEEP THE AREA OF WORK AND PREMISES FREE FROM ALL REFUSE AND WASTE MATERIALS CAUSED BY THE CONSTRUCTION WORK. ALL SUCH REFUSE SHALL BE REMOVED FROM THE PROPERTY, UNLESS OTHERWISE SPECIFIED OR DIRECTED, SO THAT THE AREA OF WORK AND PREMISES PRESENT A NEAT, ORDERLY, AND WORKMANLIKE APPEARANCE.

15. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE ENGINEER, FOR DELIVERY TO THE OWNER, FOUR, (4) BOUND AND INDEXED COPIES OF AN APPROVED OPERATIONS AND MAINTENANCE, (O&M) INSTRUCTION MANUAL. THE SUBMISSION OF A PARTS LIST OR EQUIPMENT TECHNICAL DATA ONLY WILL NOT BE CONSIDERED ACCEPTABLE AS OPERATIONS AND MAINTENANCE DATA. EACH O&M MANUAL COPY SHALL HAVE A LIST CONTAINING THE NAME AND TELEPHONE NUMBER OF THE LOCAL MANUFACTURERS REPRESENTATIVE OR SUPPLIER WITH AN ITEMIZED LIST OF THE PRODUCTS THEY SUPPLIED AND ARE CONTAINED IN THIS MANUAL. THE OPERATIONS AND MAINTENANCE MANUALS SHALL CONTAIN SHOP DRAWING SUBMITTALS, WITH REVIEW COMMENTS, BALANCING REPORTS, PARTS LISTS AND MANUFACTURERS PRINTED OPERATION AND MAINTENANCE DATA FOR EACH ITEM FOR WHICH SHOP DRAWINGS ARE SPECIFIED.

16. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE ENGINEER, AS PART OF THE OWNER'S OPERATIONS AND MAINTENANCE MANUALS, ONE, (1) SET OF REPRODUCIBLE DRAWINGS, MECHANICALLY DRAFTED, INDICATING ANY CONSTRUCTION CHANGES MADE TO THE ORIGINAL CONTRACT DRAWINGS. EACH DRAWING SET SUBMITTED SHALL BE CLEARLY LABELED 'RECORD DRAWINGS'.

17. ALL MATERIAL WITHIN RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TEST IN ACCORDANCE WITH ASTM E 84 OR UL 723 PER IMC 602.2.1. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT IF ANY EXISTING MATERIAL DOES NOT MEET THE REQUIREMENTS.

18. PROVIDE DIRECT POSITIVE VENTILATION FROM THE PROJECT WORK AREA TO OUTSIDE OF THE BUILDING FOR ALL WORK INVOLVING AN OPEN FLAME. SUBMIT A WRITTEN METHOD OF PROCEDURE, (MOP) FOR APPROVAL PRIOR TO BEGINNING THIS OPERATION. THE WORK MAY NOT PROCEED UNTIL THE MOP HAS BEEN APPROVED WITH THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE OWNER.

19. COORDINATE THE FINAL LOCATIONS OF ALL DUCTWORK AND SUPPLY AIR REGISTERS WITH THE LIGHTING, CABLE TRAYS, CONDUITS, STRUCTURAL COMPONENTS AND OWNERS EQUIPMENT PRIOR TO THE FABRICATION AND INSTALLATION.

MECHANICAL SPECIFICATIONS

GENERAL

1. MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.

2. ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR NEW AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.

3. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, LABOR AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. COMPRESSORS SHALL HAVE A FULL FIVE-YEAR WARRANTY. CONTRACTOR SHALL PAY FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS AS CONSTRUED HEREIN WITHIN THE PERIOD COVERED BY THE GUARANTEE.

4. SCAFFOLDING, RIGGING AND HOISTING: UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED, AND REMOVAL OF SAME FROM PREMISES WHEN NO LONGER REQUIRED.

5. CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION TO DETERMINE FULLY THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION.

6. LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.

7. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, DUCTS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT BEFORE PROCEEDING. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.

8. SEE ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL ROOF MOUNTED EQUIPMENT AND FOR THE LOCATION OF ROOF PENETRATIONS.

9. UNLESS OTHERWISE NOTED, ALL SPECIFIED EQUIPMENT IS LESS THAN 200 POUNDS. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL EQUIPMENT GREATER THAN 200 LBS.

10. INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

11. INSTALL ELECTRIC VAV BOX AND DUCT HEATERS, NEW PIPING AND DUCTWORK SO AS TO PROVIDE A MINIMUM OF 3'-6" CLEARANCE IN FRONT OF ALL ELECTRIC HEATER TERMINAL PANELS.

12. INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.

13. CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL FURNISH SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED. CONTRACTOR IS LIABLE FOR CUTTING OR PATCHING MADE NECESSARY BY HIS FAILURE TO MAKE PROPER ARRANGEMENTS IN THIS RESPECT.

14. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER AS DIRECTED BY THEM.

15. TEST ALL SYSTEMS. SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO ARCHITECT.

16. THE CONTRACTOR SHALL X-RAY SLAB/ROOF BEFORE CORE DRILLING. COORDINATE WITH BUILDING MANAGEMENT.

17. COORDINATE ALL DUCT SHAFT LOCATION AND SIZES WITH GENERAL CONTRACTOR PRIOR TO FABRICATION.

18. COORDINATE ALL ROOFTOP UNIT DUCT CONNECTION SIZE AND LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO FABRICATIONS.

19. THE INLET DUCTWORK, SERVING THE VAV TERMINAL UNITS, SHALL BE ROUND RIGID EQUAL IN SIZE TO THE UNIT'S INLET CONNECTION, UNLESS INDICATED OTHERWISE. REFER TO THE AIR TERMINAL SCHEDULE AND DETAILS FOR INLET SIZES.

20. ALL DUCT SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS AND SHALL BE INCREASED, WHERE SOUNDLINING IS INDICATED, TO COMPENSATE FOR THE LINING THICKNESS.

21. ALL RETURN AIR DUCT OPENINGS ABOVE CEILING SHALL BE COVERED WITH 1/2" MESH SCREEN.

22. ALL ROUND RUNOUTS AND FLEXIBLE DUCTWORK TO A SINGLE CEILING DIFFUSER SHALL BE SAME SIZE AS DIFFUSER NECK.

23. ALL DUCTWORK SHALL BE SOUND LINED 10' FROM THE INLET AND OUTLET OF FAN OR TERMINAL VAV BOX.

24. FLEXIBLE DUCTS SHALL NOT BE INSTALLED IN NO-CEILING SPACE, ABOVE DRY WALL CEILING OR OTHER INACCESSIBLE SPACES.

25. WHENEVER THE VOLUME DAMPER IS ABOVE DRY WALL CEILING OR INACCESSIBLE SPACE, PROVIDE REMOTE CABLE CONTROL DAMPER SYSTEM. INSTALL CONTROLLER AT AIR DEVICE FACE. THE REMOTE DAMPER SYSTEM SHALL BE BY YOUNG REGULATOR MODEL 270-275 SHALL BE THE TERMINATION DEVICE.

26. PROVIDE ACCESS PANELS FOR EACH TERMINAL BOX AND OTHER CEILING-HUNG EQUIPMENTABOVE DRY WALL CEILING OR INACCESSIBLE CEILING. CONSULT WITH EQUIPMENT MANUFACTURER FOR LOCATIONS OF ACCESS PANELS AND QUANTITY.

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MATERIALS AND EQUIPMENT:
   A. ALL HEATING AND COOLING EQUIPMENT
   B. ROOFTOP UNITS
   C. KITCHEN HOODS
   D. MAKEUP AIR UNIT
   E. VIBRATION ISOLATORS
   F. PIPE AND PIPE FITTINGS
   G. SHEET METAL DUCTWORK AND ACCESSORIES
   H. INSULATION
   I. FANS
   J. FLEXIBLE DUCT
   K. VAV TERMINAL BOXES
   L. AIR DEVICES
   M. TEMPERATURE CONTROLS
   N. TESTING AND BALANCING REPORTS
   O. OPERATION AND MAINTENANCE MANUALS

2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR ORIGINATED MODIFICATIONS TO THE MECHANICAL EQUIPMENT ELECTRICAL INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENT'S "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.

MECHANICAL SPECIFICATIONS

EQUIPMENT

1. GENERAL:
   A. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
   B. ALL EQUIPMENT SHALL BE IDENTIFIED BY STENCILING THE TITLE OF THE EQUIPMENT AS DETERMINED BY THE OWNER'S REPRESENTATIVE. IF THE OWNER'S REPRESENTATIVE DOES NOT EXPRESS A PREFERENCE THEN IDENTIFICATION SHALL BE TAKEN FROM THE PLANS AND SHALL BE LOCATED IN A POSITION THAT IS CLEARLY VISIBLE. THE LETTERS SHALL BE MADE WITH BLACK PAINT AND SHALL BE NOT LESS THAN 2" HIGH. THE TITLES SHALL BE SHORT AND CONCISE.

2. ROOFTOP UNITS AND DOAS SYSTEM: SEE SEPARATE SPECIFICATION SECTIONS.

3. AIR DEVICES:
   A. STEEL CONSTRUCTION WITH ENAMEL FINISH.
   B. ACCEPTABLE MANUFACTURERS: TITUS OR NAILOR.

4. VAV BOXES:
   A. VAV BOXES SHALL BE TRANE, TITUS, OR NAILOR TO MATCH EXISTING.
   B. BOXES SHALL BE ARI CERTIFIED AND LABELED. ELECTRIC HEATING COILS SHALL BE UL LABELED.
   C. PROVIDE WITH DDC CONTROLS.

5. FANS:
   A. EACH FAN SHALL BE AMCA CERTIFIED AND LABELED.
   B. EACH FAN SHALL BE UL LISTED AND LABELED.
   C. ALL WIRING AND CONDUIT PROVIDED AS PART OF THE UNIT SHALL BE IN ACCORDANCE WITH NEC.
   D. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK OR PENN.

6. FIRE DAMPERS:
   A. U.L. 555 LABELED, TYPE B FIRE DAMPERS. DAMPERS SHALL BE DYNAMIC TYPE WITH CONTINUOUS STAINLESS STEEL SPRING CURTAIN AND 165' LINKAGE. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL U.L. AND MANUFACTURER REQUIREMENTS.
   B. DAMPERS SHALL BE INSTALLED IN SLEEVES OR COLLARS WITHIN THE WALL, FLOOR OR CEILING CONSTRUCTION IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   C. THE DAMPER BLADES SHALL BE LOCATED OUT OF THE AIR STREAM (B-TYPE) AND CONSTRUCTED OF MINIMUM 24-GAUGE, GALVANIZED STEEL.
   D. ACCEPTABLE MANUFACTURERS: RUSKIN DIBD2.

7. ACCESS PANELS: PROVIDE ACCESS PANELS IN DUCTWORK IN A LOCATION TO SERVICE FIRE DAMPERS. ACCESS PANELS SHALL BE OF THE INSULATED DOOR TYPE ON ALL INSULATED DUCTS AND SHALL NOT BE COVERED BY DUCT INSULATION. ACCESS PANELS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. MINIMUM SIZE OF ACCESS PANELS SHALL BE 12" X 12" EXCEPT WHERE DUCT IS LESS THAN 14" WIDE IN WHICH CASE ONE DIMENSION SHALL BE 12" AND THE OTHER SHALL BE 2" LESS THAN THE DUCT WIDTH. ACCESS DOOR SHALL BE ACCESSIBLE.

DUCT SMOKE DETECTORS

1. DUCT SMOKE DETECTORS: PROVIDE WHERE SHOWN ON THE DRAWINGS, IONIZATION TYPE AIR DUCT SMOKE DETECTORS. DETECTION CHAMBER SHALL BE CAPABLE OF BEING REMOVED WITHOUT BREAKING CONDUIT CONNECTIONS, OR REQUIRING AN ACCESS PANEL IN THE DUCT. THE TEST AND ANNUNCIATING STATION SHALL BE CALIBRATED TO ACTUATE AT A NOMINAL 2% LIGHT OBSTRUCTION PER FOOT. DETECTOR SHALL BE OF SUCH DESIGN THAT PARTICLES OF DUST AND INSECTS LARGER IN SIZE THAN 200 MICRONS SHALL BE INCAPABLE OF FREE ENTRY INTO THE SMOKE CHAMBER AND ITS SENSITIVITY SHALL NOT BE AFFECTED BY CHANGES IN AIR VELOCITY ENCOUNTERED IN THE AIR DUCT OR BY RAPID CHANGES OF AIR PRESSURE, TEMPERATURE OR HUMIDITY. THE DETECTOR SHALL HAVE TWO SETS OF ALARM RELAY CONTACTS AND FRONT ACCESSIBILITY FOR ALL REQUIRED MAINTENANCE. DETECTOR SHALL BE EST DH 400 ACDCP OR APPROVED EQUAL

2. DUCT SMOKE DETECTORS: DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.

PIPE AND PIPE FITTINGS

1. GENERAL: ALL PIPING SHALL BE CUT ACCURATELY FROM DIMENSIONS ESTABLISHED AT THE PROJECT SITE WITH ALLOWANCES MADE FOR THE CLEARANCE OF WINDOWS, DOORS, AND OTHER OPENINGS. ALL PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING CONSTRUCTION AND SHALL BE INSTALLED SO AS TO ALLOW FOR EXPANSION AND DRAINAGE. ALL PIPING SYSTEMS SHALL BE INSTALLED COMPLETE.

2. CONDENSATE DRAIN PIPING OUTSIDE THE BUILDING: CPVC.

3. IDENTIFICATION: ALL PIPING SHALL BE IDENTIFIED BY NAME AND DIRECTIONAL FLOW ARROWS IN ACCORDANCE WITH ASME A13.1 STANDARDS.

4. SLOPE ALL CONDENSATE PIPING TOWARDS DRAIN AT 1/8" PER FOOT. INSTALL OTHER PIPING AT A UNIFORM GRADE OF 0.2 PERCENT UPWARD IN DIRECTION OF FLOW.

5. INSTALL DRAINS, CONSISTING OF A TEE FITTING, NPS 3/4 BALL VALVE, AND SHORT NPS 3/4 THREADED NIPPLE WITH CAP, AT LOW POINTS IN PIPING SYSTEM MAINS AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE.

VIBRATION ISOLATORS

1. PROVIDE COMBINATION SPRING AND DOUBLE DEFLECTION NEOPRENE ISOLATION HANGERS FOR ALL SUSPENDED FANS AND EQUIPMENT 100 LBS. OR GREATER.

2. PROVIDE DOUBLE DEFLECTION NEOPRENE ISOLATION HANGERS FOR SUSPENDED FANS AND EQUIPMENT LESS THAN 100 LBS.

3. QUANTITY AND LOCATION OF ISOLATORS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

4. AFTER INSTALLATION AND START-UP, CONTRACTOR SHALL THOROUGHLY CHECK EACH ITEM OF EQUIPMENT FOR VIBRATION TRANSMISSION TO THE STRUCTURE OR EXCESSIVE NOISE, AND IF EITHER OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE FAULTY SITUATION IMMEDIATELY.

DUCTWORK

1. GENERAL: CONSTRUCT ALL DUCTWORK AND ACCESSORIES UPSTREAM OF VAV BOXES IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR 4" PRESSURE CLASS AND SEAL CLASS A. CONSTRUCT ALL OTHER DUCTWORK FOR 2" PRESSURE CLASS AND SEAL CLASS A.

2. THE SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS AND OTHER IMPERFECTIONS.

3. METAL DUCTWORK: UNLESS OTHERWISE NOTED, FABRICATE ALL DUCTWORK, HOUSING, DAMPERS, AND ALL OTHER DUCT RELATED ACCESSORIES FROM GALVANIZED STEEL SHEETS.
   A. GALVANIZED STEEL SHEETS: LOCK-FORMING QUALITY; COMPLYING WITH ASTM A 653/A 653M; DUCTS SHALL HAVE MILL-PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.

4. KITCHEN HOOD EXHAUST AIR DUCTWORK (GREASE DUCT SERVING TYPE I HOODS): SHALL BE INSTALLED TO ALLOW FOR THERMAL EXPANSION AND WITHOUT DIPS OR TRAPS THAT MAY COLLECT RESIDUES. JOINTS, SEAMS, AND PENETRATIONS SHALL BE MADE WITH A CONTINUOUS, LIQUID-TIGHT WELD OR BRAZE ON THE EXTERNAL SURFACE OF THE DUCTWORK AS INDICATED IN THE CURRENT INTERNATIONAL MECHANICAL CODE SECTION 506.3.2. THE DUCTWORK SHALL BE CONSTRUCTED FROM ONE OF THE FOLLOWING:
   A. COMMERCIAL QUALITY, CARBON-STEEL SHEETS NOT LESS THAN 0.0575-INCHES (16 GAUGE) IN THICKNESS. THE SHEET METAL SHALL HAVE AN OILED, MATTE FINISH.
   B. STAINLESS STEEL SHEETS NOT LESS THAN 0.0450-INCHES (18 GAUGE) THICKNESS.
   C. FACTORY-BUILT COMMERCIAL KITCHEN GREASE DUCTS THAT ARE LISTED AND LABELED IN ACCORDANCE WITH UL 1978 AND INSTALLED IN ACCORDANCE WITH SECTION 304.1 OF THE CURRENT INTERNATIONAL MECHANICAL CODE.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	NEW DUCTWORK, PIPING OR EQUIPMENT
	SOUND LINED DUCTWORK
	ELBOW WITH TURNING VANES
	BRANCH WITH 45 DEGREE ENTRY
	SUPPLY AIR DUCT
	RETURN/EXHAUST AIR DUCT
	EXHAUST AIR DUCT
	SUPPLY DUCT TURNING UP
	RETURN/EXHAUST DUCT TURNING UP
	SUPPLY DUCT TURNING DOWN
	RETURN/EXHAUST DUCT TURNING DOWN
R	RISE IN DUCT (ARROW INDICATES AIRFLOW DIRECTION)
D	DROP IN DUCT (ARROW INDICATES AIRFLOW DIRECTION)
VD	VOLUME DAMPER
F	FIRE DAMPER
SFD	SMOKE/FIRE COMBINATION DAMPER
MD	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER
SD	SMOKE DETECTOR
T	ROOM/SPACE THERMOSTAT OR SENSOR
H	ROOM/SPACE THERMOSTAT OR SENSOR
1	NEW WORK KEYED NOTE
X	CFM DESIGNATION
X	AIR DEVICE DESIGNATION
D	CONDENSATE DRAIN
	VAV BOX
	VAV BOX WITH HEATING COIL
	FAN POWERED VAV BOX

ABBREVIATIONS

AC	AIR CONDITIONING
AHU	AIR HANDLING UNIT
ARI	AMERICAN REFRIGERATION INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS
ATC	AUTOMATIC TEMPERATURE CONTROLS
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
CV	CONSTANT VOLUME
DN	DOWN
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FT	FEET
H	HEIGHT
H2O	WATER
HP	HORSEPOWER
IN	INCHES
MAU	MAKE-UP AIR UNIT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MD	MOTORIZED DAMPER
MIN	MINIMUM
NC	NOISE CRITERIA; NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NUMBER; NORMALLY OPEN
OA	OUTSIDE AIR
PD	PRESSURE DROP
RA	RETURN AIR
RTU	ROOFTOP UNIT
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SQ	SQUARE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH

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DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

SPECIFICATIONS, SYMBOLS, AND ABBREVIATIONS

M001

1 OF 14 SHEETS

216118

GENERAL SPECIFICATIONS

5. KITCHEN HOOD EXHAUST GREASE DUCTWORK CLEANOUTS AND OPENINGS: SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT INTERNATIONAL MECHANICAL CODE. CLEANOUT OPENINGS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS, AND AT LEAST AS THICK AS, THE GREASE DUCT. HORIZONTAL CLEANOUT LOCATIONS AND DIMENSIONS SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL MECHANICAL CODE SECTION 506.3.9. WHERE CLEANOUT OPENINGS ARE LOCATED IN DUCTS WITHIN A FIRE RESISTANCE RATED ENCLOSURE, ACCESS OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT INTERNATIONAL MECHANICAL CODE SECTION 506.3.11.

6. KITCHEN HOOD EXHAUST GREASE DUCTWORK SHALL BE SUBJECTED TO A LEAKAGE AND LIGHT TEST PRIOR TO BEING USED OR CONCEALED, PER CURRENT INTERNATIONAL MECHANICAL CODE SECTION 506.3.2.5.

7. MANUAL VOLUME DAMPERS: SHALL BE AS INDICATED IN THE SMACNA DUCT STANDARDS FOR DUCTWORK LESS THAN 12–INCHES ON THE LONGEST SIDE. THE DAMPERS FOR DUCTWORK OVER 12–INCHES IN LENGTH SHALL BE OF AN OPPOSED, MULTI–BLADE CONFIGURATION. THE DAMPERS SHALL BE CONSTRUCTED FROM GALVANIZED STEEL AND REINFORCED TO PREVENT VIBRATION. THE DAMPERS SHALL HAVE SWIVEL END BEARINGS AT ONE END OF THE BLADE AND A LOCKING QUADRANT, OR REGULATOR, AT THE OPPOSITE END CLEARLY MARKED FOR POSITION. THE MULTI–BLADE DAMPERS SHALL HAVE STEEL WASHERS AT THE ENDS OF THE DAMPER RODS WITH SELF–ALIGNING BLADE INTERCONNECTING HARDWARE.

8. FLEXIBLE CONNECTORS: PROVIDE AT THE DISCHARGE AND INLET OPENINGS OF ALL AIR HANDLING UNITS, FAN COIL UNITS AND INLINE FANS WITH DUCTWORK CONNECTIONS. THE FLEXIBLE CONNECTORS SHALL BE CONSTRUCTED FROM A FLAME RETARDANT NEOPRENE COATED GLASS FABRIC, (30 OUNCES PER SQUARE YARD). THE DUCT CONNECTORS SHALL BE ASSEMBLED COMPLETELY AIRTIGHT WITH SEWED AND CEMENTED SEAMS AND INSTALLED TO ALLOW FOR 1–INCH OF FREE MOVEMENT. THE FLEXIBLE DUCT CONNECTORS SHALL BE AS MANUFACTURED BY DURODYNE OR GENERAL RUBBER CORPORATION. CONTRACTOR SHALL BRACE DUCTWORK (AS REQUIRED) AT ALL FLEXIBLE CONNECTORS TO ENSURE THAT DUCTWORK IS KEPT IN ALIGNMENT.

9. FLEXIBLE DUCT: PROVIDE INSULATED U.L. LISTED CLASS 1 DUCT COMPLYING WITH NFPA 90A. MAXIMUM LENGTH SHALL BE 6 FEET. FLEXIBLE AIR CONNECTORS SHALL NOT BE ACCEPTABLE. FLEXMASTER, THERMAFLEX, WIREMOLD, OR CLEVAFLEX.

10. TURNING VANES: PROVIDE TURNING VANES MANUFACTURED OF GALVANIZED STEEL PER SMACNA IN ALL MITERED ELBOWS 30 DEGREES OR MORE. PROVIDE SINGLE WALL FOR DUCTS UP TO 48" WIDE AND DOUBLE WALL FOR LARGER DIMENSIONS.

11. WHERE DUCTS PASS THROUGH NON–FIRE–RATED INTERIOR PARTITIONS AND EXTERIOR WALLS AND ARE EXPOSED TO VIEW, COVER THE OPENING BETWEEN THE PARTITION AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME METAL THICKNESS AS THE DUCT. OVERLAP OPENINGS ON FOUR SIDES BY AT LEAST 1–1/2 INCHES.

12. EXPOSED DUCTWORK: TRIM DUCT SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. DO NOT USE TWO–PART TAPE SEALING SYSTEM. GRIND WELDS TO PROVIDE SMOOTH SURFACE FREE OF BURRS, SHARP EDGES, AND WELD SPLATTER.

13. HANGER AND SUPPORT INSTALLATION:

    A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 5, "HANGERS AND SUPPORTS."

    B. BUILDING ATTACHMENTS: CONCRETE INSERTS, POWDER–ACTUATED FASTENERS, OR STRUCTURAL–STEEL FASTENERS APPROPRIATE FOR CONSTRUCTION MATERIALS TO WHICH HANGERS ARE BEING ATTACHED.
        1) WHERE PRACTICAL, INSTALL CONCRETE INSERTS BEFORE PLACING CONCRETE.
        2) INSTALL POWDER–ACTUATED CONCRETE FASTENERS AFTER CONCRETE IS PLACED AND COMPLETELY CURED.
        3) USE POWDER–ACTUATED CONCRETE FASTENERS FOR STANDARD–WEIGHT AGGREGATE CONCRETES OR FOR SLABS MORE THAN 4 INCHES THICK.
        4) DO NOT USE POWDER–ACTUATED CONCRETE FASTENERS FOR LIGHTWEIGHT–AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.
        5) DO NOT USE POWDER–ACTUATED CONCRETE FASTENERS FOR SEISMIC RESTRAINTS.

    C. HANGER SPACING: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," TABLE 5–1, "RECTANGULAR DUCT HANGERS MINIMUM SIZE," AND TABLE 5–2, "MINIMUM HANGER SIZES FOR ROUND DUCT," FOR MAXIMUM HANGER SPACING; INSTALL HANGERS AND SUPPORTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION.
    D. HANGERS EXPOSED TO VIEW: THREADED ROD AND ANGLE OR CHANNEL SUPPORTS.
    E. SUPPORT VERTICAL DUCTS WITH STEEL ANGLES OR CHANNEL SECURED TO THE SIDES OF THE DUCT WITH WELDS, BOLTS, SHEET METAL SCREWS, OR BLIND RIVETS; SUPPORT AT EACH FLOOR AND AT A MAXIMUM INTERVALS OF 16 FEET.
    F. INSTALL UPPER ATTACHMENTS TO STRUCTURES. SELECT AND SIZE UPPER ATTACHMENTS WITH PULL–OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.

14. DUCT CLEANING
    A. CLEAN NEW DUCT SYSTEM BEFORE TESTING, ADJUSTING, AND BALANCING.
    B. USE DUCT CLEANING METHODOLOGY AS INDICATED IN NADCA ACR, THE NADCA STANDARD FOR THE ASSESSMENT, CLEANING, AND RESTORATION OF HVAC SYSTEMS.

15. INSTALL ALL DUCTWORK ABOVE CEILING AND HOLD TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED.

16. INSTALL OUTSIDE AIR INTAKES A MINIMUM OF 10'–0" FROM ANY EXHAUST OR PLUMBING VENT.

17. INSTALL CEILING AIR DEVICES IN GRID AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON PLAN. COORDINATE LOCATION WITH LIGHT FIXTURES AND SPRINKLER HEADS.

18. HOLD ALL DUCTWORK RUNNING PARALLEL TO A RATED WALL A MINIMUM OF 6" AWAY FROM THE WALL.

19. CHANGES TO DUCT DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE FRICTION LOSS IS MAINTAINED AND SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

20. LEAKAGE

    A. ALL DUCTS SHALL BE SEALED. JOINT AND SEAMS SHALL COMPLY WITH SECTION 603.9 OF INTERNATIONAL MECHANICAL CODE.
    B. ALL NEW DUCTS AND PLENUMS SHALL BE LEAK–TESTED IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. FOR OPERATING PRESSURE GREATER THAN 3" WC, THE LEAKAGE RATE SHALL BE EQUAL TO OR LESS THAN 4.0 AS DETERMINED IN C403.2.9.1.3, INTERNATIONAL ENERGY CODE.
    C. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN CONSTRUCTIOND.
    D. LEAKAGE TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

MECHANICAL SPECIFICATIONS

INSULATION

1. ALL DUCT INSULATION AND COVERINGS SHALL HAVE A FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM–E–84, NFPA 255 AND UL 723 NOT EXCEEDING A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50. THE PRODUCTS SHALL BE BY JOHNS MANVILLE, KNAUF INSULATION, OWENS CORNING, CERTAINTEED, MANSON, OR ARMACELL BY ARMAFLEX.

2. AIR CONDITIONING DUCTS WITHIN THE BUILDING ENVELOPE: INSULATE ALL NEW SUPPLY AIR AND RETURN AIR DUCTS WITH A FORMALDEHYDE FREE FIBERGLASS, FLEXIBLE BLANKET INSULATION, FACED WITH AN FSK FIRE RESISTIVE VAPOR BARRIER JACKET WITH A 2" TAB ON ONE EDGE. INSULATION SHALL BE WRAPPED ON DUCTS WITH FACING OVERLAPPING ALL JOINTS AT LEAST 2" AND HELD IN PLACE WITH 1/2" OUTWARD CLINCHING STAPLES ON 4" CENTERS. STAPLES AND SEAMS ARE TO BE SEALED WITH A BRUSH COAT OF VAPOR BARRIER MASTIC.

    a. UNCONDITIONED SPACE DUCTS: INSULATION SHALL BE 1–1/2" THICK AND HAVE A MINIMUM R VALUE OF 6.
    b. CONDITIONED SPACE: INSULATION IS NOT REQUIRED UNLESS OTHERWISE INDICATED.

3. DUCT LINING: WHERE INDICATED, SOUND LINE DUCTWORK IN LIEU OF EXTERNAL INSULATION. LINING SHALL BE FIBER GLASS OR FLEXIBLE ELASTOMERIC DUCT LINER AND HAVE A MINIMUM R VALUE OF 6. LINER SHALL BE 1–1/2" THICK UNLESS OTHERWISE NOTED. THE SIZES OF SOUND LINED DUCTS SHOWN ON THE DRAWINGS SHALL BE DIMENSIONS INSIDE THE SOUND LINING. DUCT LINING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. STICK CLIPS WHERE USED SHALL NOT COMPRESS SOUND LINING MORE THAN 10% OF ITS NORMAL THICKNESS. LINER SHALL BE U.L. APPROVED FOR USE IN ACCORDANCE WITH NFPA PAMPHLET 90A.

4. PENETRATIONS

    a. INSULATION INSTALLATION AT ROOF PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH ROOF PENETRATIONS.
    b. INSULATION INSTALLATION AT INTERIOR WALL AND PARTITION PENETRATIONS (THAT ARE NOT FIRE RATED): INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
    c. INSULATION INSTALLATION AT FIRE–RATED WALL AND PARTITION PENETRATIONS:
        1) DUCTWORK: TERMINATE INSULATION AT FIRE DAMPER SLEEVES FOR FIRE–RATED WALL AND PARTITION PENETRATIONS. EXTERNALLY INSULATE DAMPER SLEEVES TO MATCH ADJACENT INSULATION AND OVERLAP DUCT INSULATION AT LEAST 2 INCHES.

5. WHEREVER DUCTWORK OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN THE ITEMS AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND SLEEVE. FIRE STOP SHALL BE A NON–COMBUSTIBLE, NON–MELTING, APPROVED MATERIAL.

TEST AND BALANCING

1. SCOPE:

    E. AN INDEPENDENT CONTRACTOR WITH NEBB OR AABC CERTIFICATION SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE BALANCING OF THE MECHANICAL SYSTEMS AND RELATED WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
    F. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE", NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS", SMACNA'S "HVAC SYSTEMS – TESTING, ADJUSTING, AND BALANCING", AND IN THIS SECTION.
    G. BALANCING SHALL NOT BE PERFORMED UNTIL ALL MECHANICAL EQUIPMENT IS PROPERLY INSTALLED AND IS 100% OPERATIONAL, ALL TEMPERATURE CONTROLS ARE INSTALLED AND CALIBRATED AND ALL SYSTEMS ARE CLEANED, PIPING AND STRAINERS FLUSHED, AND CLEAN FILTERS INSTALLED.
    H. IT IS THE INTENT OF THIS SPECIFICATION TO ENSURE THAT THE ENTIRE PROJECT IS SUBSTANTIALLY COMPLETE SO THAT ALL COMPONENTS OF ALL MECHANICAL SYSTEMS CAN BE PUT INTO NORMAL OPERATION WITH ALL WINDOWS AND DOORS CLOSED AND BALANCED IN THAT CONDITION, IN NO CASE IS THE CONTRACTOR TO PERFORM HIS WORK IN PIECEMEAL FASHION.

2. QUALITY ASSURANCE: SUBMIT TO OWNER THREE (3) COPIES OF BALANCING AND TESTING RECORDS SPECIFIED HEREIN SHOWING THE MECHANICAL SYSTEMS HAVE BEEN BALANCED AND ARE DELIVERING SPECIFIED QUANTITIES.

3. EACH PIECE OF EQUIPMENT SHALL BE IDENTIFIED AS TO LOCATION, SERVICE, MANUFACTURER AND MODEL NUMBER. THIS INFORMATION SHALL BE RECORDED AND INCLUDED IN THE FINAL BALANCE REPORT.

4. AFTER ADJUSTMENTS ARE COMPLETED, THE MECHANICAL SYSTEMS SHALL BE TESTED, AND THE FOLLOWING INFORMATION RECORDED AND INCLUDED IN THE FINAL BALANCE REPORT:

    A. ROOFTOP UNITS AND DOAS UNIT:
        1) BLOWER RPM
        2) MOTOR FULL LOAD AMPS
        3) VOLTAGE
        4) AIR FLOW – TOTAL
        5) AIR FLOW – OUTSIDE AIR
        6) AIR FLOW – RETURN AIR
        7) STATIC PRESSURE – SUCTION
        8) STATIC PRESSURE – DISCHARGE
        9) STATIC PRESSURE – TOTAL
        10) ENTERING AIR TEMPERATURE (DB) HEATING AND COOLING
        11) LEAVING AIR TEMPERATURE (DB) HEATING AND COOLING
        12) ENTERING AIR TEMPERATURE (WB) COOLING
        13) LEAVING AIR TEMPERATURE (WB) COOLING

    B. AIR DEVICES:
        1) EACH AIR DEVICE SHALL BE IDENTIFIED AS TO LOCATION AND SERVICE
        2) SIZE, TYPE AND MANUFACTURER OF AIR DEVICE LISTED
        3) REQUIRED CFM AND TEST RESULTANT CFM EACH DEVICE

    C. VAV BOXES:
        1) INLET STATIC PRESSURE
        2) MINIMUM AND MAXIMUM PRIMARY AIR CFM SETPOINTS
        3) HEATING COIL KW, VOLTAGE AND AMPS
        4) SUPPLY AIR TEMPERATURE (COOLING AND HEATING)

    D. FANS:
        1) TOTAL AIR FLOW
        2) EXTERNAL STATIC PRESSURE
        3) MOTOR FULL LOAD AMPS
        4) VOLTAGE

    E. DUCT SMOKE DETECTORS: PRESSURE DIFFERENTIAL ACROSS INLET AND OUTLET TAPS OF DETECTORS.

5. AFTER THE SYSTEMS HAVE BEEN BALANCED AND ALL ADJUSTMENTS COMPLETED, RUN A SIX HOUR TEST ON BOTH HEATING AND COOLING CYCLE TO DETERMINE IF SYSTEM IS RESPONDING TO TEMPERATURE CONTROLS. THERMOSTAT TEMPERATURE READING, AND AN INDEPENDENT TEMPERATURE MEASUREMENT AT THE THERMOSTAT SHALL BE RECORDED AT EACH THERMOSTAT.

MECHANICAL SPECIFICATIONS

TEMPERATURE CONTROL –
SEE BOOK SPECIFICATION "230923 DIRECT DIGITAL CONTROL (DDC) SYSTEM FOR HVAC"

MECHANICAL SPECIFICATIONS

D

C

B

A

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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
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☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

MECHANICAL SPECIFICATIONS

M002

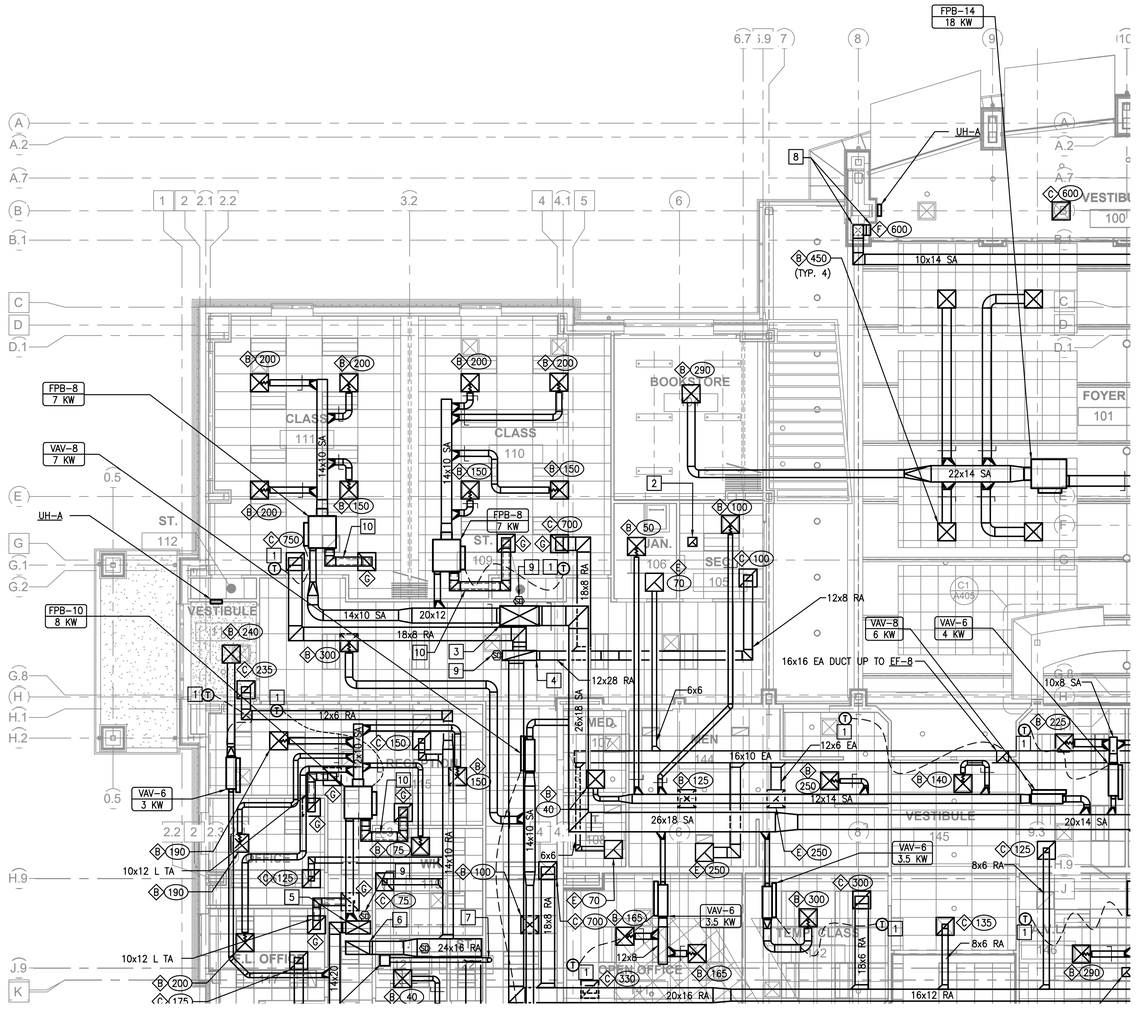
2 OF 14 SHEETS

216118

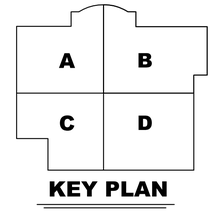
5 4 3 2 1

MECHANICAL PLAN NOTES

1. COORDINATE THERMOSTAT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER ADA STANDARDS.
2. 12x12 EA DUCT UP TO EF-11 DOWN TO 12' 6" AFF. COVER OPENING WITH WIRE MESH SCREEN
3. FULL SIZE SA DOWN FROM RTU-6, BRANCH DUCTWORK CONNECTS HORIZONTALLY TO FULL SIZE SA.
4. FULL SIZE RA DOWN FROM RTU-6, BRANCH DUCTWORK CONNECTS HORIZONTALLY TO FULL SIZE RA.
5. FULL SIZE SA DOWN FROM RTU-5, BRANCH DUCTWORK CONNECTS HORIZONTALLY TO FULL SIZE SA.
6. FULL SIZE RA DOWN FROM RTU-5, BRANCH DUCTWORK CONNECTS HORIZONTALLY TO FULL SIZE RA.
7. 6'ø EA DUCT UP TO ROOF.
8. 14"x14" SA DOWN TO 7'-0" AFF. INSTALL BOTTOM OF DIFFUSER AT 7'-0" AFF.
9. INSTALL SMOKE DETECTOR IN VERTICAL DUCT DROP.
10. SIZE DUCTWORK TO INDUCED AIR INLET SIZE OF FAN POWERED VAV UNIT. PROVIDE 1" INTERNAL SOUND LINING.



PARTIAL FLOOR PLAN – SECTION 'A' MECHANICAL
SCALE: 1/8" = 1'-0"



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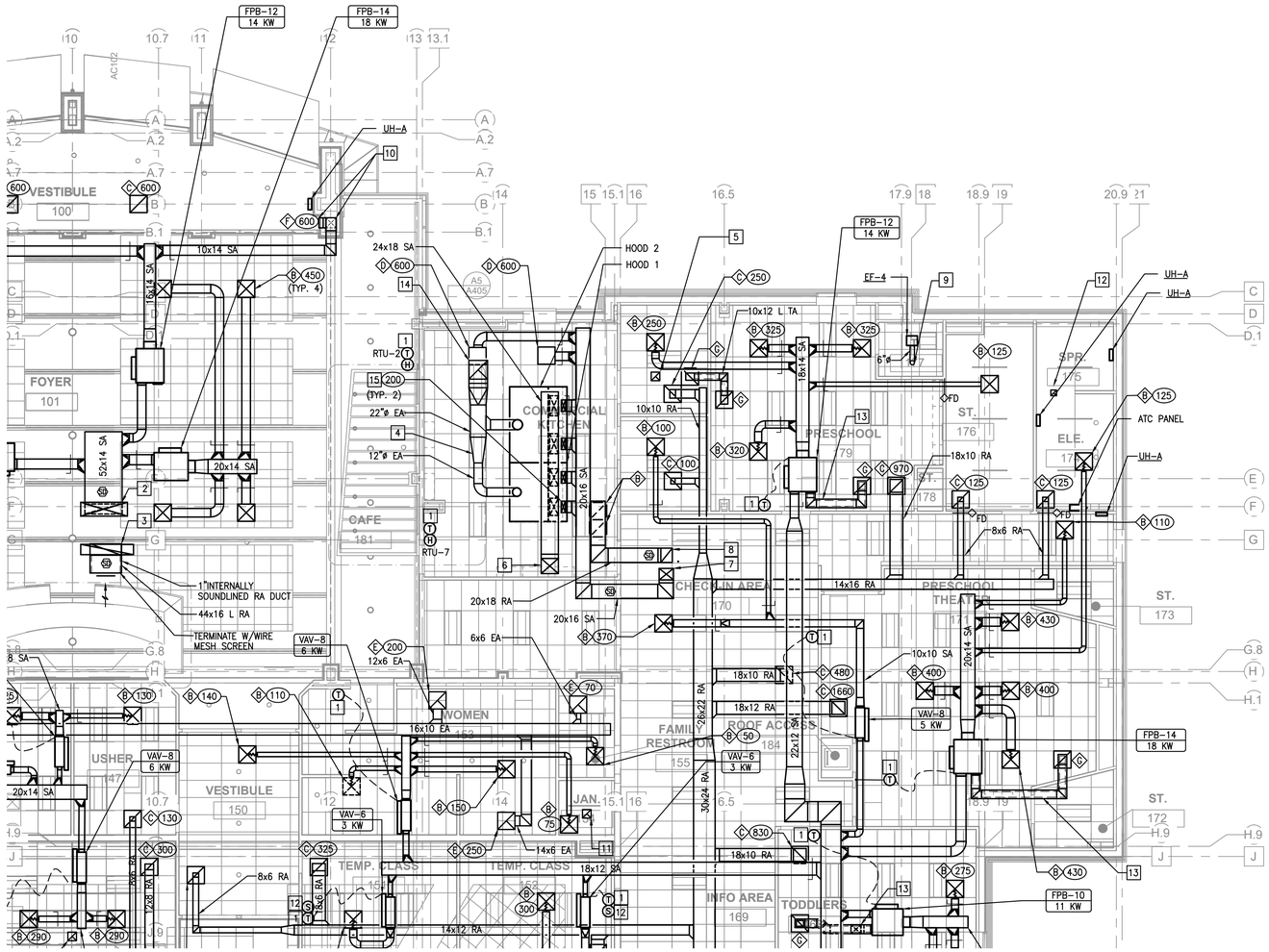
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN SECTION 'A' MECHANICAL

M101

3 OF 14 SHEETS

216118

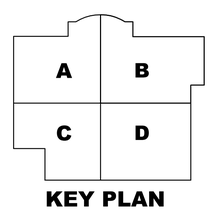


PARTIAL FLOOR PLAN – SECTION 'B' MECHANICAL

SCALE: 1/8" = 1'-0"

MECHANICAL PLAN NOTES

1. COORDINATE SENSOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER ADA STANDARDS.
2. 52x14 SA UP TO RTU-2. TRANSITION TO RTU-2 SA OPENING SIZE IN VERTICAL.
3. 44x16 RA UP TO RTU-2. TRANSITION TO RTU-2 RA OPENING SIZE IN VERTICAL.
4. PROVIDE FIRE WRAP AROUND GREASE DUCT COMPLETELY. 3M FIRE BARRIER DUCT WRAP 615+, 2 LAYER WRAP.
5. 12x12 EA DUCT UP TO EF-10 DOWN TO 11' AFF. COVER OPENING WITH WIRE MESH SCREEN
6. 24x18 OA UP TO MAU-1.
7. 20x16 SA UP TO RTU-7. TRANSITION TO RTU-7 SA OPENING SIZE IN VERTICAL.
8. 20x18 RA UP TO RTU-7. TRANSITION TO RTU-7 RA OPENING SIZE IN VERTICAL.
9. 6"ø EA DUCT UP TO ROOF.
10. 14"x14" SA DOWN TO 7'-0" AFF. INSTALL BOTTOM OF DIFFUSER AT 7'-0" AFF.
11. 12x12 EA DUCT UP TO EF-9 DOWN TO 9' AFF. COVER OPENING WITH WIRE MESH SCREEN.
12. 8x8 EA DUCT UP TO EF-13 DOWN TO 11' AFF. COVER OPENING WITH WIRE MESH SCREEN
13. SIZE DUCTWORK TO INDUCED AIR INLET SIZE OF FAN POWERED VAV UNIT. PROVIDE 1" INTERNAL SOUND LINING.
14. 26x26 EA RISE TO KEF-1.
15. CONNECT TO HOOD HVAC CONNECTION.



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN SECTION 'B' MECHANICAL

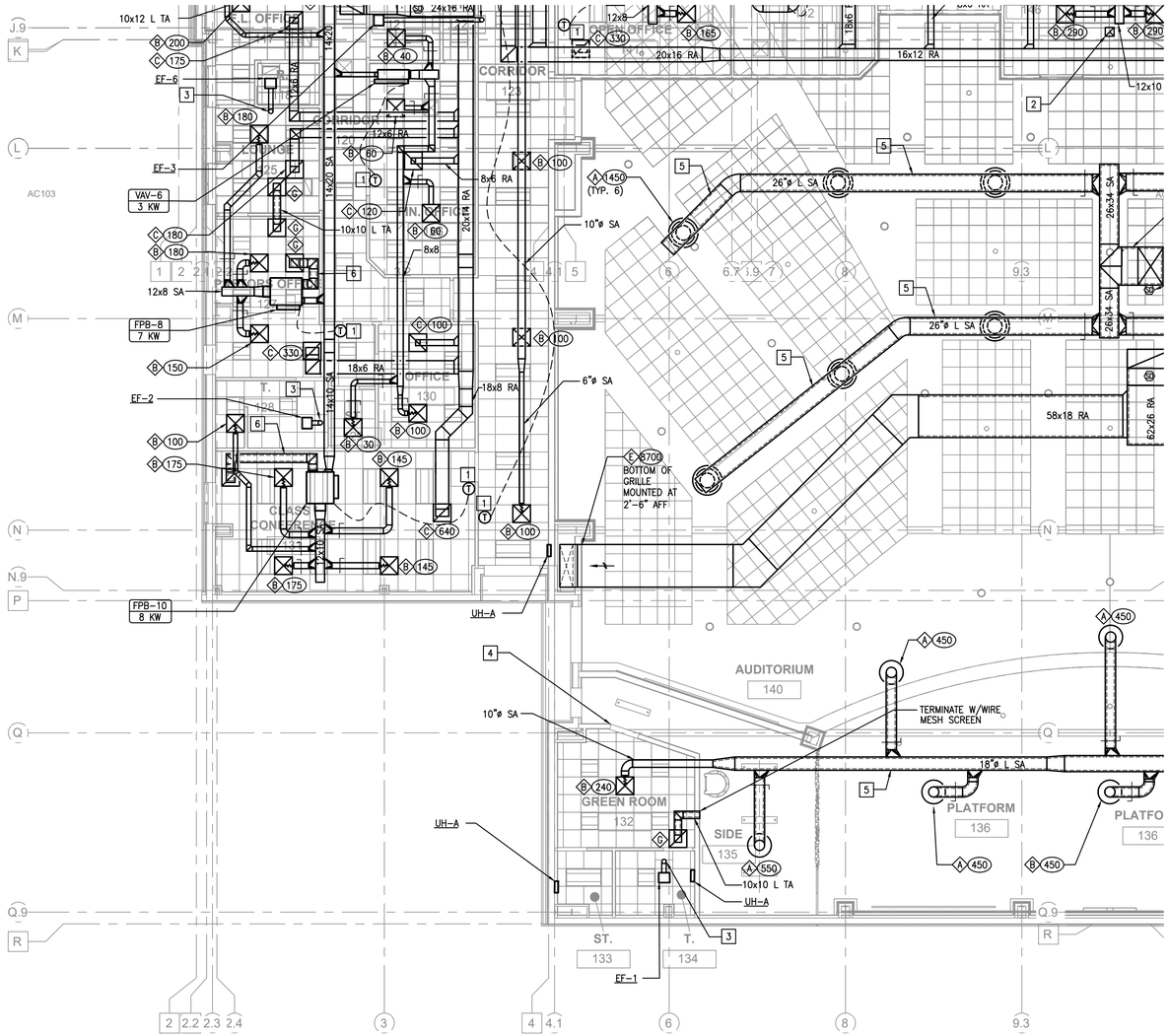
M102

4 OF 14 SHEETS

216118

5 4 3 2 1

D C B A

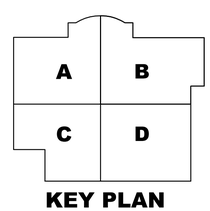


PARTIAL FLOOR PLAN – SECTION 'C' MECHANICAL
SCALE: 1/8" = 1'-0"

MECHANICAL PLAN NOTES

1. COORDINATE SENSOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER ADA STANDARDS.
2. 12x12 EA DUCT UP TO EF-12 DOWN TO 11' AFF. COVER OPENING WITH WIRE MESH SCREEN
3. 6'ø EA DUCT UP TO ROOF.
4. UNDERCUT DOOR 3/4".
5. PROVIDE 1" INTERNAL SOUND LINING.
6. SIZE DUCTWORK TO INDUCED AIR INLET SIZE OF FAN POWERED VAV UNIT. PROVIDE 1" INTERNAL SOUND LINING.

KEY PLAN



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN SECTION 'C' MECHANICAL

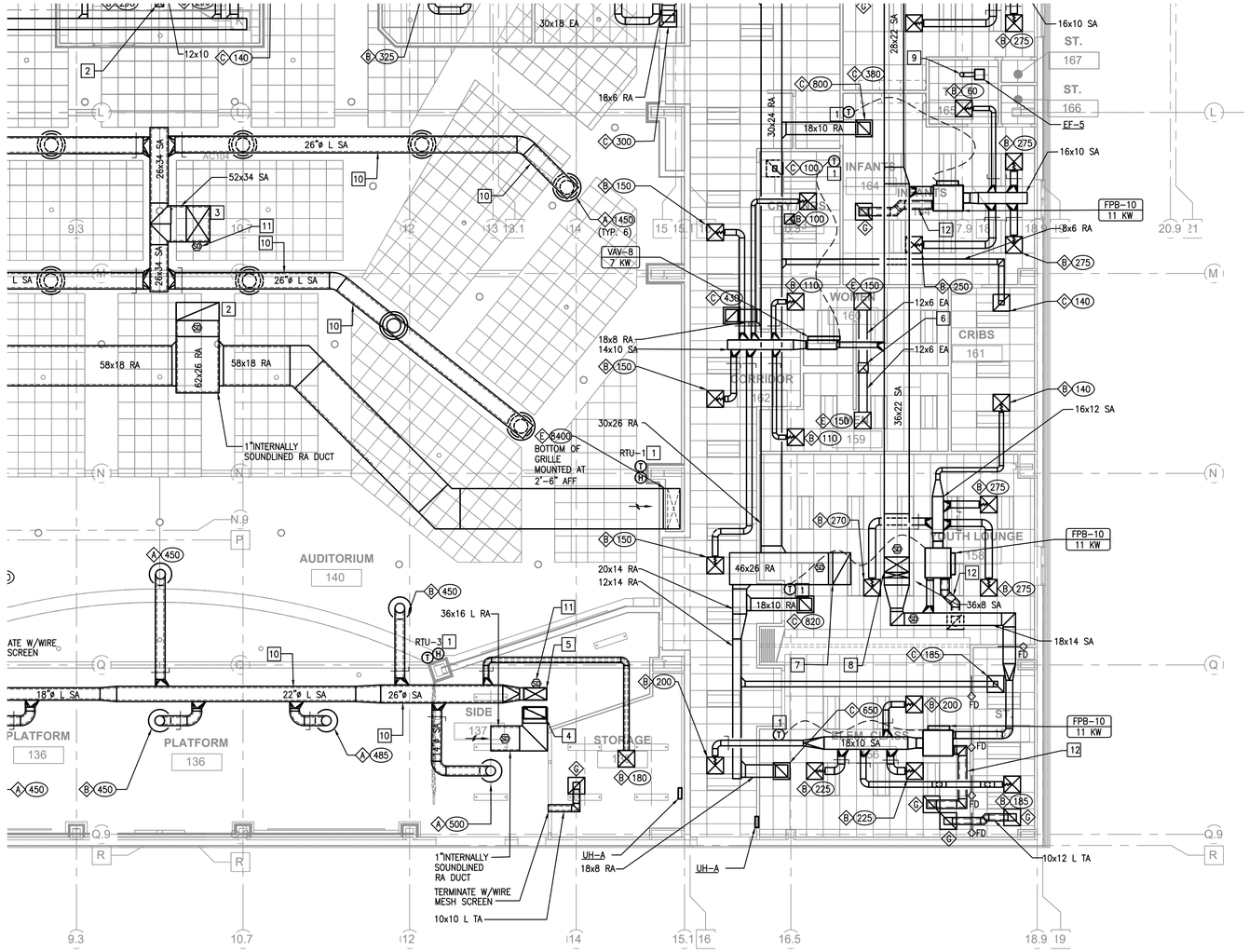
M103

5 OF 14 SHEETS

216118

5 4 3 2 1

D C B A

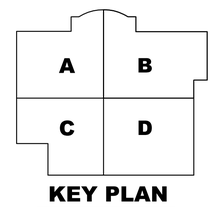


PARTIAL FLOOR PLAN – SECTION 'D' MECHANICAL

SCALE: 1/8" = 1'-0"

MECHANICAL PLAN NOTES

1. COORDINATE SENSOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER ADA STANDARDS.
2. 62x26 RA UP TO RTU-1. TRANSITION IN VERTICAL AND SEPARATE INTO TWO SEPARATE DUCTS, 76x20 RA AND 76x11 EA.
3. 52x32 SA UP TO RTU-1. TRANSITION TO RTU-1 SA OPENING SIZE IN VERTICAL.
4. 36x16 RA UP TO RTU-3. TRANSITION TO RTU-3 RA OPENING SIZE IN VERTICAL.
5. 32x18 SA UP TO RTU-3. TRANSITION TO RTU-3 SA OPENING SIZE IN VERTICAL.
6. 16x16 EA DUCT UP TO EF-7
7. 46x26 RA UP TO RTU-4. TRANSITION TO RTU-4 RA OPENING SIZE IN VERTICAL.
8. 36x22 SA AND 36x8 SA UP TO 36x30 SA UP TO RTU-4. TRANSITION WITH PAIR OF PANTS. TRANSITION 36x30 SA TO RTU-4 SA OPENING SIZE IN VERTICAL.
9. 6"ø EA DUCT UP TO ROOF.
10. 1"INTERNALLY SOUND LINED SA DUCT. NO EXTERNAL INSULATION WHERE DUCT IS SOUND LINED.
11. INSTALL SMOKE DETECTOR IN VERTICAL DUCT DROP.
12. SIZE DUCTWORK TO INDUCED AIR INLET SIZE OF FAN POWERED VAV UNIT. PROVIDE 1" INTERNAL SOUND LINING.



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN SECTION 'D' MECHANICAL

M104

6 OF 14 SHEETS

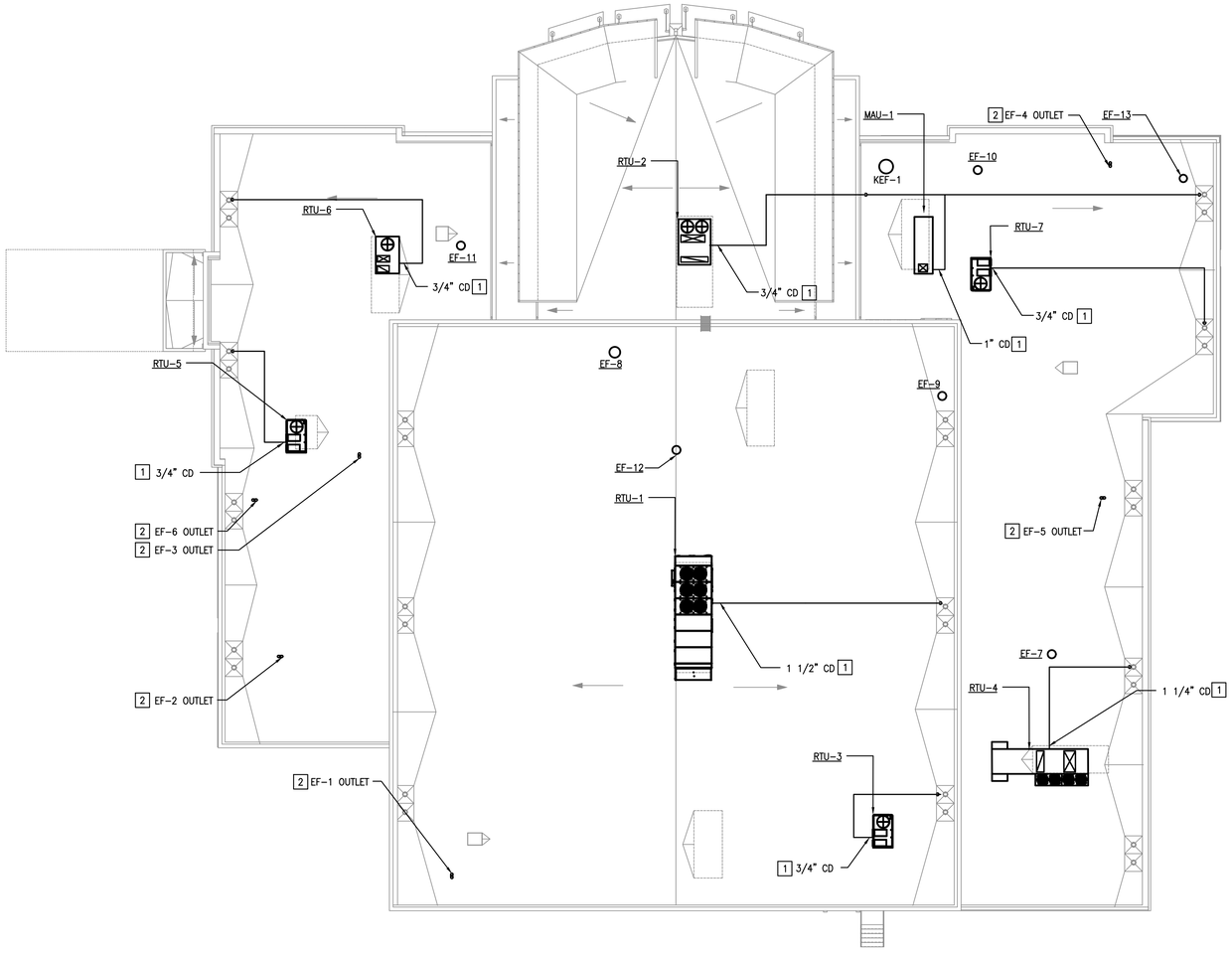
216118

5 4 3 2 1

D C B A

MECHANICAL PLAN NOTES

1. PROVIDE CONDENSATE DRAIN TRAP. SEE DETAIL ON SHEET M501. ROUTE TO NEAREST ROOF DRAIN.
2. 6"ø EXHAUST DUCT GOOSENECK DISCHARGE. SEE DETAIL ON SHEET M501.



ROOF PLAN
SCALE: 1/16" = 1'-0"

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REVISIONS/ADDENDUMS

ROOF PLAN MECHANICAL

M105

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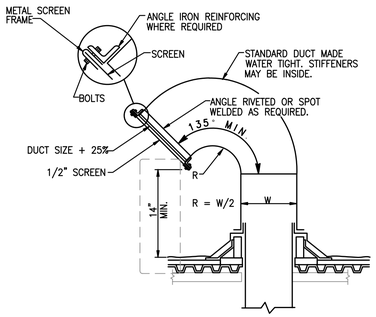
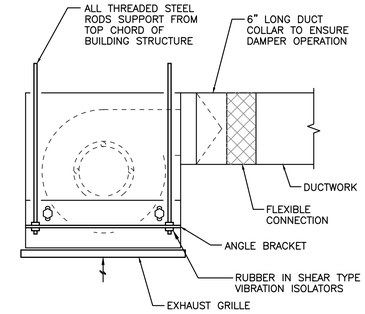
216118

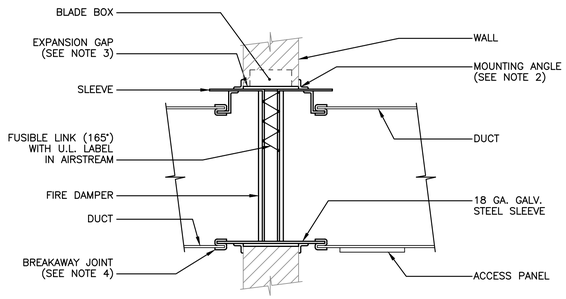


TYPICAL GOOSENECK DETAIL
NOT TO SCALE



NOTE:
CONTROL SHALL BE VIA THERMOSTAT

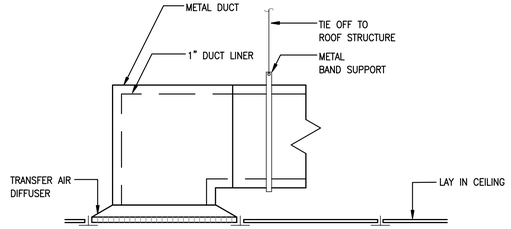
CABINET EXHAUST FAN DETAIL
NOT TO SCALE



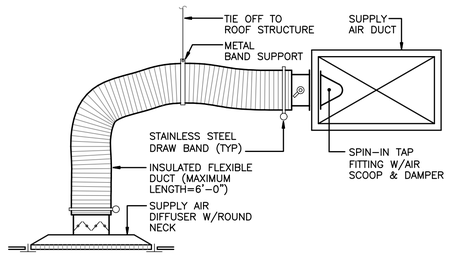
NOTES

1. FIRE DAMPER AND SLEEVE SHALL BE A FACTORY INSTALLED ASSEMBLY BY THE DAMPER MANUFACTURER.
2. MOUNTING ANGLES SHALL BE INSTALLED ON ALL SIDES OF DAMPER SLEEVE BOTH SIDES OF WALL. ANGLES SHALL NOT OVERLAP EACH OTHER AT CORNERS. ANGLE SHALL BE INSTALLED TIGHT TO WALL AND SECURED TO SLEEVE ONLY WITH 1/4" – 20 BOLTS MAX. 6" ON CENTERS. ANGLES SHALL BE MIN. 1–1/2" x 1–1/2" x 16 GAUGE STEEL.
3. PROVIDE EXPANSION GAP BETWEEN WALL AND SLEEVE. GAP SHALL BE A MINIMUM OF 1/8" FOR EVERY 12" OF SLEEVE WIDTH AND 1/8" FOR EVERY 12" OF SLEEVE DEPTH, OR PER DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. PROVIDE BREAKAWAY JOINT BETWEEN SLEEVE AND DUCT WITH STANDARD SLIP CONNECTOR (NO SCREWS ARE ALLOWED) ON BOTH SIDES OF WALL.
5. WHERE THIS DETAIL CONFLICTS WITH THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.
6. CONTRACTOR SHALL NOTE MANUFACTURER'S INSTALLATION STICKERS ON DAMPER. STICKERS SHALL NOT BE REMOVED OR TAMPERED WITH.

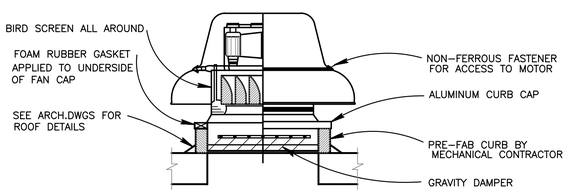
FIRE DAMPER DETAIL–WALL INSTALLATION
NOT TO SCALE



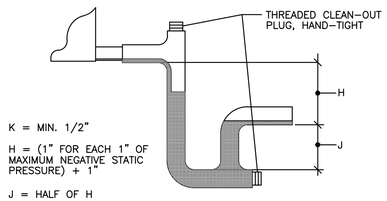
TRANSFER AIR DIFFUSER DETAIL
NOT TO SCALE



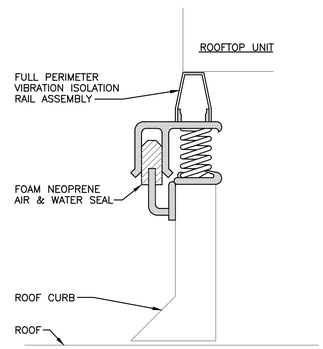
FLEXIBLE DUCT INSTALLATION DETAIL
NOT TO SCALE



ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



NEGATIVE PRESSURE TRAP
NO SCALE DET–159



ROOFTOP VIBRATION ISOLATION DETAIL
NOT TO SCALE D–119 SEC:15160

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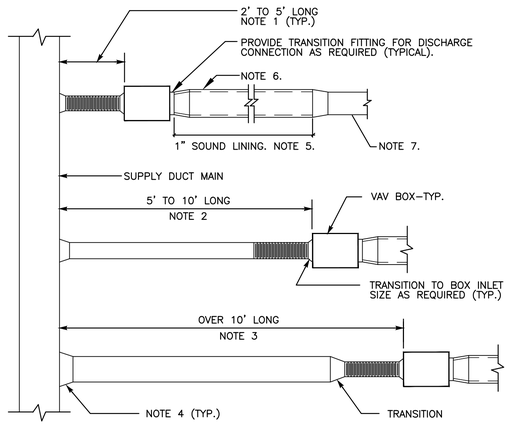
REVISIONS/ADDENDUMS

MECHANICAL DETAILS

M501
8 OF 14 SHEETS

216118



NOTES:

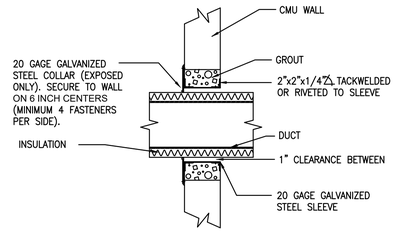
1. PROVIDE 2' MIN. STRAIGHT FLEXIBLE DUCT AT BOX INLET (TYPICAL).
2. PROVIDE 5' MAX. FLEXIBLE DUCT OF STANDARD INLET DUCT SIZE PLUS SHEET METAL DUCT OF STANDARD INLET DUCT SIZE FOR COMBINED LENGTH UP TO 10' MAX (SEE SCHEDULE FOR SIZES).
3. PROVIDE 5' MAX. FLEXIBLE DUCT OF STANDARD INLET DUCT SIZE PLUS SHEET METAL DUCT OF INCREASED INLET DUCT SIZE FOR COMBINED LENGTH OVER 10' LONG (SEE SCHEDULE FOR SIZES).

STANDARD INLET DUCT SIZE	5"ø	6"ø	8"ø	10"ø	12"ø	14"ø
INCREASED INLET DUCT SIZE	6"ø	8"ø	10"ø	12"ø	14x12	18x12

4. PROVIDE RECTANGULAR TO ROUND, CONICAL TAP, OR EQUIVALENT AT EACH CONNECTION TO SUPPLY DUCT MAIN.
5. RUN LINING FOR 10 FT. OR THRU FIRST ELBOW (TYPICAL).
6. PROVIDE DOWNSTREAM TRANSITION WHERE SHOWN ON PLANS (TYPICAL).

VAV BOX DETAIL

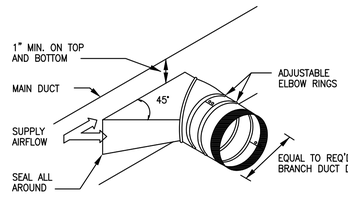
NOT TO SCALE

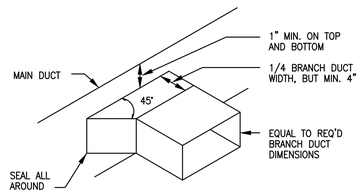


NOTES:
(NOT APPLICABLE TO FIRE-RATED WALLS)

DUCT PENETRATION THROUGH WALL

NOT TO SCALE

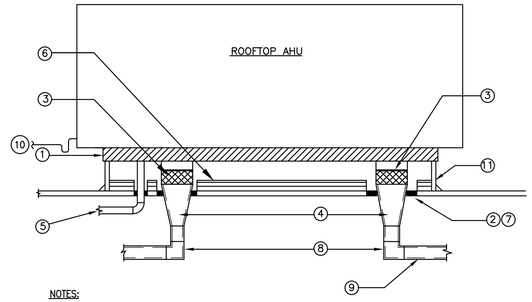




NOTES:
1. PROVIDE MANUAL BALANCING DAMPER AT ALL BRANCH TAKE-OFFS TO AIR DEVICES AND AS INDICATED ON PLANS FOR BRANCH DUCTS.

TYPICAL DUCT BRANCH TAKE-OFF FITTING

NOT TO SCALE

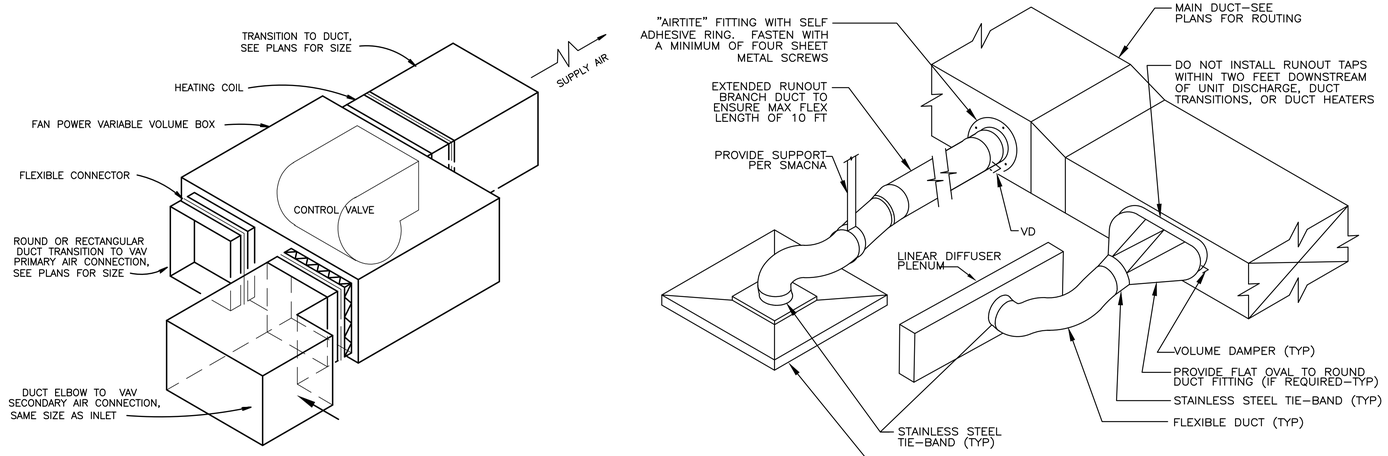


NOTES:

1. PROVIDE SPRING ISOLATION RAILS WITHIN CUSTOMIZED CURB. THE SPRING ISOLATION SHALL BE OF 2" DEFLECTION.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENINGS FOR ACTUAL EQUIPMENT PURCHASED AND FOR REQUIREMENTS OF INSTALLATION METHODS USED.
3. PROVIDE 6" MINIMUM FLEXIBLE DUCT CONNECTION AT SUPPLY AND RETURN DUCT.
4. TRANSITION IN VERTICAL.
5. POWER SUPPLY WITHIN CURB.
6. PROVIDE 3" MINIMUM SEMI-RIGID INSULATION OVER ROOF INSIDE CURB. COVER WITH 2 LAYERS OF 5/8" FRT PLYWOOD WITH STAGGERED JOINTS. SEAL JOINTS & EDGES WITH NON-HARDENING SEALER.
7. PACK ALL OPENINGS THRU ROOF WITH ACOUSTIC MATERIAL. PROVIDE NON-HARDENING SEALER ABOVE AND BELOW.
8. PROVIDE BOTH SUPPLY AND RETURN DUCTS WITH 2" SOUNDING LINING FOR 25 FEET FROM UNIT.
9. PROVIDE SUPPLY DUCT OF 16 GAUGE SHEET METAL FOR 25 FEET FROM UNIT.
10. CONDENSATE DRAIN WITH TRAP. TERMINATE AT NEAREST ROOF DRAIN.
11. ROOF CURB.

ROOFTOP AHU DETAIL

NOT TO SCALE



FAN POWERED VAV BOX DETAIL

NOT TO SCALE

CEILING DIFFUSER HOOK-UP DETAIL

NOT TO SCALE

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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

MECHANICAL DETAILS

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ROOF TOP A/C UNIT SCHEDULE

RTU NO	GENERAL DATA					SUPPLY AIR FAN DATA							DX COOLING COIL DATA							COMPRESSOR DATA		
	SERVICE	NET TOTAL CAP (MBH)	NET SENS CAP (MBH)	OA QTY (CFM)	UNIT TYPE	AIR QTY (CFM)	EXT SP (INS WG)	FAN TYPE	FAN RPM	DRIVE TYPE	MOTOR BHP	MOTOR HP	ROWS/ FPI	ENT AIR °F		COIL LVG AIR °F		UNIT LVG AIR °F		QTY	TYPE	REFRIGERANT TYPE
														DB	WB	DB	WB	DB	WB			
RTU-1	SANCTUARY	790.2	453.1	7970	SINGLE ZONE VAV	17,400	1.5	DIRECT DRIVE & VFD	1,626	DIRECT	20.2	(2) 15	3/14	74.6	65.1	47.9	47.9	66.2	55.8	6	DIGITAL SCROLL	R-410A
RTU-2	ENTRY CONCOURSE	180.9	121.43	1050	MULT-ZONE VAV	5090	1.73	BC PLENUM	1,363	DIRECT	–	3.0	–	78.2	66.5	54.8	54.3	56.9	55.1	2	SCROLL	R-410A
RTU-3	STAGE	143.1	103.6	1050	SINGLE ZONE VAV	4280	1.99	BC PLENUM	1618	DIRECT	–	4.6	–	73.0	64.0	52.8	52.3	–	–	1	SCROLL	R-410A
RTU-4	CLASSES	433.6	255.7	4290	MULT-ZONE VAV	10,900	2.0	DIRECT DRIVE & VFD	1325	DIRECT	10.02	(2) 7.5	3/12	74.1	64.7	50.3	49.9	88.0	64.5	2 2	DIGITAL SCROLL SCROLL	R-410A
RTU-5	OFFICES	89.7	61.3	580	MULT-ZONE VAV	2550	1.5	BC PLENUM	1341	DIRECT	–	3.0	–	78.2	66.4	54.6	54.2	56.7	55.0	1	SCROLL	R-410A
RTU-6	CLASSES	143.0	93.5	1130	MULT-ZONE VAV	4500	1.4	BC PLENUM	1658	DIRECT	–	4.6	–	77.3	66.6	56.2	55.6	58.8	56.6	2	SCROLL	R-410A
RTU-7	KITCHEN	66.8	46.1	250	SINGLE ZONE VAV	2065	1.8	BC PLENUM	1306	DIRECT	–	3.0	–	73.8	63.0	50.9	50.6	53.8	51.9	1	SCROLL	R-410A

RTU NO	HEATER DATA			CONDENSER FAN DATA	EXHAUST FAN DATA				ELECT DATA			APPROX OPERATING WEIGHT (LBS) (W/O CURB)	EER	IEER	ROOF TOP UNIT BASIS OF DESIGN	NOTES
	HEATER TYPE	INPUT CAP (MBH)	OUTPUT CAP (MBH)	FAN TYPE	DRIVE TYPE	ESP	FAN BHP	FAN RPM	VOLTS / PH	MCA	MOCP					
RTU-1	NATURAL GAS FIRED	1200.0	972.0	PROPELLER	DIRECT	1.0	5.1	1548	460 / 3	188.3	200	12,253	11.7	11.7	TRANE HORIZON MODEL 0ANG080C3	13–36
RTU-2	NATURAL GAS FIRED	250.0	202.5	PROPELLER	DIRECT	–	–	–	460 / 3	41.0	50	2331	11.9	18.0	TRANE PRECEDENT MODEL YHJ180	1, 2, 4–11, 13
RTU-3	NATURAL GAS FIRED	250.0	202.5	PROPELLER	DIRECT	–	–	–	460 / 3	33.0	45	1,487	10.8	15.8	TRANE PRECEDENT MODEL YHJ150	1, 3–11, 13
RTU-4	NATURAL GAS FIRED	400.0	324.0	PROPELLER	DIRECT	1.0	1.77	1333	460 / 3	109.6	125.0	8025	11.2	11.2	TRANE HORIZON MODEL 0AND540A4	13–24, 26–36, 39
RTU-5	NATURAL GAS FIRED	120.0	97.2	PROPELLER	DIRECT	–	–	–	460 / 3	21.0	25	1,151	12.1	17.1	TRANE PRECEDENT MODEL YHJ090	1, 2, 4–11, 13, 37, 38
RTU-6	NATURAL GAS FIRED	250.0	202.5	PROPELLER	DIRECT	–	–	–	460 / 3	33.0	45.0	1,467	12.1	15.8	TRANE PRECEDENT MODEL YHJ150	1, 2, 4–11, 13, 37, 38
RTU-7	NATURAL GAS FIRED	150.0	121.5	PROPELLER	DIRECT	–	–	–	460 / 3	18.0	20.0	1,133	12.1	12.1	TRANE PRECEDENT MODEL YHJ072	1, 3–11, 13

NOTES:
1. FACTORY MOUNTED BACNET DDC CONTROLLER
2. PROVIDE MULTIPLE ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND DUCT STATIC PRESSURE SENSOR WITH FAN PRESSURE OPTIMIZATION CONTROL SEQUENCE.
3. PROVIDE SINGLE ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND ZONE TEMPERATURE SENSOR
4. COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER
5. MERV 13 FILTERS
6. HOT GAS REHEAT
7. STAINLESS STEEL DRAIN PAN
8. CONDENSER HAIL GUARDS
9. FACTORY INSTALLED DISCONNECT SWITCH AND PHASE MONITOR
10. PROVIDE OUTDOOR AIRFLOW MEASURING SYSTEM
11. STAINLESS STEEL HEAT EXCHANGER
12. UNIT TO HAVE 3 COMPRESSORS WITH 5 CAPACITY STEPS
13. ROOF CURB
14. BACNET INTERFACE
15. DOUBLE WALL 2" R13 INSULATION ON ALL CABINET SIDES AND BOTTOM PANEL
16. ENTIRE CABINET EXTERIOR PREPRINTED
17. DIGITAL SCROLL COMPRESSORS
18. RUBBER SLEEVES ON CAPILLARIES OFF THE DISTRIBUTOR TUBES THAT PREVENTS TUBE RUBS AND LEAKS
19. CONDENSATE OVERFLOW SWITCH
20. ACTIVE (VFD) HEAD PRESSURE CONTROL LOW AMBIENT CONTROL
21. CONTROL DISPLAY TD7 – FACTORY MOUNTED
22. DAMPER LEAKAGE CLASS 1A
23. MODULATING OA & RA DAMPER W/ECONOMIZER
24. NON FUSED DISCONNECT "CIRCUIT BREAKER"
25. GAS INDIRECT HEAT 20:1 TURNDOWN MODULATING HEAT
26. ERV – COMPOSITE CONSTRUCTION WITH FROST CONTROL WITH VFD. SEE ENERGY RECOVERY SYSTEM SCHEDULE FOR ENERGY RECOVERY WHEEL INFORMATION.
    A. ERV ON METAL TRACK FOR EASE OF SERVICING
    B. ERV ROTATION SENSOR
27. EXHAUST DAMPERS – GRAVITY
28. EXHAUST FAN MOTOR TYPE – DDP W/ VFD (NO BELT DRIVES ALLOWED TO ENHANCE SERVICEABILITY)
29. AIRFLOW MONITORING: OUTSIDE AIRFLOW MONITORING; SUPPLY AND EXHAUST FAN WITH PIEZO RINGS/TAPS
30. MERV–13 FILTERS
31. CONDENSER HAILGUARDS
32. HOT GAS REHEAT – FIN AND TUBE MODULATING HGRH
    A. MODULATING HGRH WITH 6" GAP
33. SUPPLY FAN – DDP W/VFD (NO BELT DRIVES ALLOWED TO ENHANCE SERVICEABILITY
    A. SF ON METAL TRACK FOR EASE OF SERVICING
34. CONTROLS – SINGLE ZONE VAV WITH UC600 BACNET CONTROLLER
    A. FACTORY SEQUENCE PROVIDED; CUSTOM SEQUENCING AT ADDITIONAL COST
35. WARRANTY
    A. 12/18 PARTS WARRANTY
    B. 2ND THRU 5TH YEAR COMPRESSOR PARTS ONLY
    C. 25 YEAR STAINLESS STEEL HEAT EXCHANGER PARTS ONLY
36. FACTORY STARTUP
37. 2 STAGE HEATING
38. UNIT INSTALLED HUMIDISTAT.
39. GAS INDIRECT HEAT 10:1 TURNDOWN MODULATING HEAT

ENERGY RECOVERY SYSTEM SCHEDULE

GENERAL
RTU SERVICE: RTU–1
LOCATION: ROOF

PERFORMANCE DATA: COOLING SEASON

OUTDOOR AIRSTREAM		SUPPLY AIRSTREAM	
DRY BULB (°F):	90.2	DRY BULB (°F):	76.5
WET BULB (°F):	73.9	WET BULB (°F):	66.4
AIRFLOW (CFM)	8505	AIRFLOW (CFM)	7970
EXHAUST AIRSTREAM		RETURN AIRSTREAM	
DRY BULB (°F):	86.4	DRY BULB (°F):	73.0
WET BULB (°F):	71.7	WET BULB (°F):	63.9
AIRFLOW (CFM)	8505	AIRFLOW (CFM)	7970

SUPPLY SENSIBLE EFFICIENCY:	0.78
SUPPLY LATENT EFFICIENCY:	0.73
SUPPLY AIR PRESSURE LOSS:	0.43 IN WG
EXHAUST AIR PRESSURE LOSS:	0.43 IN WG
TOTAL CAPACITY:	219.00 MBH
SENSIBLE CAPACITY:	113.81 MBH
LATENT CAPACITY:	105.19 MBH

PERFORMANCE DATA: HEATING SEASON

OUTDOOR AIRSTREAM		SUPPLY AIRSTREAM	
DRY BULB (°F):	14.0	DRY BULB (°F):	59.7
WET BULB (°F):	10.0	WET BULB (°F):	54.4
AIRFLOW (CFM)	8505	AIRFLOW (CFM)	7970
EXHAUST AIRSTREAM		RETURN AIRSTREAM	
DRY BULB (°F):	27.3	DRY BULB (°F):	73.0
WET BULB (°F):	27.1	WET BULB (°F):	63.9
AIRFLOW (CFM)	8505	AIRFLOW (CFM)	7970

SUPPLY SENSIBLE EFFICIENCY:	0.78
SUPPLY LATENT EFFICIENCY:	0.73
SUPPLY AIR PRESSURE LOSS:	0.43 IN WG
EXHAUST AIR PRESSURE LOSS:	0.43 IN WG
TOTAL CAPACITY:	681.09 MBH
SENSIBLE CAPACITY:	394.74 MBH
LATENT CAPACITY:	287.35 MBH
BASIS OF DESIGN:	TRANE ERV–86170C

NOTE
PROVIDE THE UNIT WITH FILTERS AT THE RECOVERY WHEEL RETURN AND OUTDOOR AIRSTREAMS.

ENERGY RECOVERY SYSTEM SCHEDULE

GENERAL
RTU SERVICE: RTU–4
LOCATION: ROOF

PERFORMANCE DATA: COOLING SEASON

OUTDOOR AIRSTREAM		SUPPLY AIRSTREAM	
DRY BULB (°F):	90.2	DRY BULB (°F):	79.4
WET BULB (°F):	73.9	WET BULB (°F):	68.1
AIRFLOW (CFM)	4054	AIRFLOW (CFM)	3850
EXHAUST AIRSTREAM		RETURN AIRSTREAM	
DRY BULB (°F):	83.6	DRY BULB (°F):	73.0
WET BULB (°F):	70.2	WET BULB (°F):	63.9
AIRFLOW (CFM)	4004	AIRFLOW (CFM)	3800

SUPPLY SENSIBLE EFFICIENCY:	0.62
SUPPLY LATENT EFFICIENCY:	0.58
SUPPLY AIR PRESSURE LOSS:	0.98 IN WG
EXHAUST AIR PRESSURE LOSS:	1.00 IN WG
TOTAL CAPACITY:	82.8 MBH
SENSIBLE CAPACITY:	42.9 MBH
LATENT CAPACITY:	39.9 MBH

PERFORMANCE DATA: HEATING SEASON

OUTDOOR AIRSTREAM		SUPPLY AIRSTREAM	
DRY BULB (°F):	10.0	DRY BULB (°F):	47.7
WET BULB (°F):	10.0	WET BULB (°F):	46.7
AIRFLOW (CFM)	4054	AIRFLOW (CFM)	3850
EXHAUST AIRSTREAM		RETURN AIRSTREAM	
DRY BULB (°F):	36.5	DRY BULB (°F):	73.0
WET BULB (°F):	36.3	WET BULB (°F):	63.9
AIRFLOW (CFM)	4004	AIRFLOW (CFM)	3800

SUPPLY SENSIBLE EFFICIENCY:	0.63
SUPPLY LATENT EFFICIENCY:	0.59
SUPPLY AIR PRESSURE LOSS:	0.98 IN WG
EXHAUST AIR PRESSURE LOSS:	1.00 IN WG
TOTAL CAPACITY:	260.03 MBH
SENSIBLE CAPACITY:	160.18 MBH
LATENT CAPACITY:	99.85 MBH
BASIS OF DESIGN:	TRANE ERV–4136C

NOTE
PROVIDE THE UNIT WITH FILTERS AT THE RECOVERY WHEEL RETURN AND OUTDOOR AIRSTREAMS.

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REVISIONS/ADDENDUMS

MECHANICAL SCHEDULES

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AIR DEVICE SCHEDULE

(A) ROUND DIFFUSER

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
400–650	14"ø	45.5"	5–18–15	0.022	<30	TITUS TMRA	1–4
1200–1400	20"ø	45.5"	8–12–21	0.031	<30	TITUS TMRA	1–4

(B) CEILING DIFFUSER

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
0–149	6"ø	24x24	2–4–7	0.063	<20	TITUS TMSA	1–4
150–200	8"ø	24x24	2–3–5	0.036	<20	TITUS TMSA	1–4
201–399	10"ø	24x24	4–6–12	0.044	<20	TITUS TMSA	1–4
400–600	12"ø	24x24	6–9–18	0.068	<25	TITUS TMSA	1–4

(C) CEILING GRILLE

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
50–174	8x6	24x24	–	–	< 20	TITUS 50F	1–3
175–320	12x8	24x24	–	–	< 20	TITUS 50F	1–3
321–750	18x10	24x24	–	–	< 20	TITUS 50F	1–3
751–1199	18x18	24x24	–	–	< 20	TITUS 50F	1–3
1200–1500	22x22	24x24	–	–	< 20	TITUS 50F	1–3

(D) LAMINAR FLOW SUPPLY DIFFUSER

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
0–600	12"ø	24x24	7.75	0.04	< 20	CAPTIVEAIRE DI–PSP	1–3

(E) ALUMINUM GRILLE

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
0–400	SIZE ON PLAN	24x24	–	–	< 20	TITUS 350FL	1–3
6000–9000	58"X18"	60"x20"	–	–	< 20	TITUS 350FL	1–3

(F) SIDEWALL DIFFUSER

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
550–650	10x14	12x16	16–24–35	0.016	< 20	TITUS 350FL	1–4

(G) TRANSFER GRILLE

CFM RANGE	NECK (IN)	FACE (IN)	THROW	MAX APD	MAX NC	BASIS OF DESIGN	NOTES
50–500	INLET SIZE ON PLAN +2"	24x24	–	–	< 20	TITUS 50F	1–3

NOTES:
1. ALL DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH A BORDER COMPATIBLE WITH THE INSTALLED CEILING SYSTEM. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.
2. ALL CEILING DIFFUSERS, (CD) SHALL HAVE A 4–WAY BLOW PATTERN UNLESS INDICATED OTHERWISE.
3. COORDINATE COLOR WITH ARCHITECT
4. OPPOSED BLADE VOLUME DAMPER

MAKE–UP AIR UNIT SCHEDULE

GENERAL	
DESIGNATION:	MAU–1
SERVICE:	HOSPITALITY KITCHEN
LOCATION:	ROOF
UNIT TYPE:	MAKE–UP AIR UNIT W/ EXHAUST FAN
SUPPLY AIR FAN DATA	
FAN TYPE:	FORWARD CURVED
DISCHARGE:	DOWNBLAST
O.A. INTAKE POSITION:	END
SUPPLY AIR QUANTITY:	2664 CFM
EXT / TOTAL STATIC PRESS:	0.5 IN WG
FAN SPEED:	1,333 RPM
FAN DRIVE DATA:	2 HP, 1.43 BHP
EXHAUST AIR FAN DATA	
FAN TYPE:	ANPA 22
SUPPLY AIR QUANTITY:	7900 CFM
EXT / TOTAL STATIC PRESS:	1.0 IN WG
FAN SPEED:	1,604 RPM
FAN DRIVE DATA:	7.5 HP, 5.85 BHP
HEATING SECTION DATA	
HEATER TYPE:	INDIRECT GAS–FIRED
INPUT / OUTPUT CAPACITY:	215.4 MBH / 174.5 MBH
FILTER DATA	
QUANTITY / SIZE:	(8) 12"x20"x2"
FILTER TYPE:	PLEATED MEDIA
EFFICIENCY:	MERV 10
ELECTRICAL DATA:	480V / 3 PH / 60 Hz
APPROX OPERATING WEIGHT:	1161 LBS, (Exc Curb Wt)
BASIS OF DESIGN:	CAPTIVEAIRE EA2–IBT–400

NOTES
1. THE MAKE–UP AIR UNIT, KEF–1 OPERATION SHALL AUTOMATICALLY ACTIVATE WHENEVER COOKING OPERATIONS OCCUR. THE ACTIVATION OF THE EXHAUST FAN SHALL OCCUR THROUGH AN INTERLOCK WITH THE HOODS.
2. PROVIDE MAKE–UP AIR UNIT WITH THE FOLLOWING ACCESSORIES:
   - DOUBLE WALL CONSTRUCTION
   - REMOVABLE ACCESS PANELS
   - ROOF CURB W/ 1–INCH INSULATION, METAL LINER
   - WEATHERHOOD W/ BIRDSCREEN
   - SMOKE DETECTOR
   - REMOTE KITCHEN PANEL
   - THRU THE CURB ELECTRICAL / GAS PROVISIONS
   - 115V FACTORY WIRED CONVENIENCE OUTLET
   - HINGED CURB CAP MOUNTED W/ CABLES
3. SEE CAPTIVE AIRE HOOD DETAILS FOR FURTHER INFORMATION.

FAN SCHEDULE

FAN NO.	LOCATION	SERVICE	PERFORMANCE DATA: AIR QTY (CFM)	PERFORMANCE DATA: ESP (IN WG)	PERFORMANCE DATA: FAN RPM	MOTOR DATA: POWER RATING (HP)	MOTOR DATA: VOLTS / PH	APPROX OPERATING WT (LBS) (Exc Curb)	BASIS OF DESIGN	NOTES
EF–1	ROOM 134	TOILET EXHAUST	70	0.25	900	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–2	ROOM 128	TOILET EXHAUST	70	0.25	900	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–3	ROOM 121	TOILET EXHAUST	70	0.25	900	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–4	ROOM 177	TOILET EXHAUST	70	0.25	900	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–5	ROOM 165	TOILET EXHAUST	70	0.25	900	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–6	ROOM 118A	TOILET EXHAUST	70	0.25	850	15 W	115 / 1	12	GREENHECK SP–A90	4
EF–7	ROOF	TOILET EXHAUST	300	0.5	1332	1/4	115 / 1	29	GREENHECK G–095–VG	1,2
EF–8	ROOF	TOILET EXHAUST	1180	0.5	974	1/2	115 / 1	54	GREENHECK G–140–VG	1,2
KEF–1	ROOF	KITCHEN	3134	1.5	1372	2	460 / 3	172	ECON–AIR EADU180H	1,3,5
EF–9	ROOF	JANITOR	175	0.5	1467	1/10	115 / 1	28	GREENHECK G–080–VG	1,6
EF–10	ROOF	SEC.	175	0.5	1467	1/10	115 / 1	28	GREENHECK G–080–VG	1,6
EF–11	ROOF	SEC.	175	0.5	1467	1/10	115 / 1	28	GREENHECK G–080–VG	1,6
EF–12	ROOF	AVL	175	0.5	1467	1/10	115 / 1	28	GREENHECK G–080–VG	1,6
EF–13	ROOF	ELECTRICAL	100	0.25	1474	1/15	115 / 1	19	GREENHECK G–060–VG	1,7

NOTES:
1. PROVIDE FANS WITH THE FOLLOWING ACCESSORIES AS INDICATED.
   A. PRE–FABRICATED, ALUMINUM ROOF CURB, (18–INCHES HIGH)
   B. NEMA–1 DISCONNECT SWITCH
   C. UNIT MOUNTED VARIABLE SPEED CONTROL
2. EXHAUST FAN SHALL OPERATE CONTINUOUSLY DURING THE OCCUPIED HOURS OF USAGE WITH SWITCH OVERRIDE DURING UNOCCUPIED HOURS.
3. FAN SHALL BE INTERLOCKED TO OPERATE WITH KITCHEN HOOD
4. PROVIDE FANS WITH THE FOLLOWING ACCESSORIES AS INDICATED.
   A. STANDARD DISCONNECT
   B. GRAVITY BACKDRAFT DAMPER
   C. PROVIDE WITH VFD FOR BALANCING AND SOFT START
   D. INTERLOCK WITH LIGHT SWITCH
5. SEE CAPTIVE AIRE HOOD DETAILS FOR FURTHER INFORMATION.
6. EXHAUST FAN SHALL OPERATE CONTINUOUSLY 24/7.
7. INTERLOCK WITH NEW WALL SWITCH, INSTALL NEXT TO DOOR

UNIT HEATER SCHEDULE

DESIGNATION:	UH–A
UNIT TYPE:	WALL MOUNTED, FAN FORCED
SERVICE:	ENTRY
OUTPUT CAPACITY:	2.0 KW, (6820 BTU/Hr.)
ELECTRICAL DATA:	208 V / 1 PH / 60HZ 8.3 AMPS
BASIS OF DESIGN:	QMARK MODEL CWH3404F

NOTE:
PROVIDE UNIT HEATER WITH THE FOLLOWING ACCESSORIES:
- •SLEEVE FOR RECESSED INSTALLATION (CWH3S2)
- •BUILT–IN DISCONNECT SWITCH
- •INTEGRAL THERMOSTAT
- •5–YEAR LIMITED WARRANTY

VAV TERMINAL UNIT SCHEDULE

(VAV–#) KW — SHUT–OFF VAV UNIT

PRIMARY AIR (#) INLET SIZE	PRIMARY AIR MAX (CFM)	LINER	BASIC UNIT SP (IN WG)	BASIS OF DESIGN
6	300	1" ECOSHIELD	0.1	TRANE MODEL VCEF
8	600	1" ECOSHIELD	0.12	TRANE MODEL VCEF
10	950	1" ECOSHIELD	0.12	TRANE MODEL VCEF
12	1500	1" ECOSHIELD	0.15	TRANE MODEL VCEF
14	2000	1" ECOSHIELD	0.15	TRANE MODEL VCEF

NOTES:
1. REFER TO FLOOR PLAN FOR INDIVIDUAL UNIT HEATER CAPACITY.
2. ALL VAV UNITS WITH AN ELECTRIC HEATER CAPACITY OF 1.5 KW OR LESS SHALL BE RATED AT 120V/1PH. ELECTRIC HEATER CAPACITIES GREATER THAN 1.5 KW SHALL BE RATED AT 480V/3PH.
3. CONTROLLERS SHALL BE PROVIDED BY THE ATCS CONTRACTOR.
4. NC SHALL BE UNDER <25
5. INTEGRAL DISCONNECT SWITCH
6. MAXIMUM PRESSURE DROP SHALL NOT EXCEED 0.3 IN. WG.
7. ADJUST MAXIMUM PRIMARY AIR TO TOTAL ADD–UP CFM.
8. ADJUST MINIMUM PRIMARY AIR TO 30% OF MAXIMUM OR 75 CFM PER KW, WHICHEVER IS GREATER UNLESS OTHERWISE INDICATED.

FAN POWERED VAV UNIT SCHEDULE

(FPB–#) KW — FAN POWERED UNIT

PRIMARY AIR (#) INLET SIZE	PRIMARY AIR MAX (CFM)	BASIC UNIT SP (IN WG)	MOTOR HP	MOTOR TYPE	LINER	VOLTAGE	PHASE	BASIS OF DESIGN
6	440	0.1	1/3	ECM	1" ECOSHIELD	208	1	TITUS MODEL DTFS–B
8	700	0.1	1/3	ECM	1" ECOSHIELD	208	1	TITUS MODEL DTFS–B
10	1000	0.1	1/3	ECM	1" ECOSHIELD	208	1	TITUS MODEL DTFS–C
12	1800	0.1	1/2	ECM	1" ECOSHIELD	208	1	TITUS MODEL DTFS–D
14	2100	0.1	3/4	ECM	1" ECOSHIELD	208	1	TITUS MODEL DTFS–E

NOTES:
1. ELECTRIC HEATERS SHALL BE 208V/1ø FOR UNITS 4KW AND BELOW & 480V/3ø FOR UNITS ABOVE 4KW. SEE PLANS FOR ELECTRIC CAPACITY IN KW.
2. MAXIMUM PRESSURE DROP SHALL NOT EXCEED 0.3 IN. WG.
3. ADJUST MAXIMUM PRIMARY AIR TO TOTAL ADD–UP CFM.
4. ADJUST MINIMUM PRIMARY AIR TO 30% OF MAXIMUM OR 75 CFM PER KW, WHICHEVER IS GREATER UNLESS OTHERWISE INDICATED.
5. ADJUST FAN TO TOTAL ADD–UP CFM.
6. FAN MOTORS SHALL BE 208V/1ø.
7. FAN EXTERNAL STATIC PRESSURE SHALL BE A MINIMUM 0.3 IN WG. (PRESSURE DROP DOES NOT INCLUDE FILTER, HEATING COIL OR BOX LOSSES.)
8. REPLACE INLET FILTER AT END OF CONSTRUCTION.
9. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH AHRI STANDARD 880–98.
10. PROVIDE DOUBLE CAMMED BOTTOM ACCESS.

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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

MECHANICAL SCHEDULES

M504

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RTU–1 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
136	Auditorium	8705	0.06	522	120	1170	5	5850	6372	0.8	7965	16400	0.49
		8705		522		1170		5850	6372		7965	16400	

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–2 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
100	Vestibule	624	0.06	37	0	0	5	0	37	0.8	46	1200	0.04
101	Foyer	4744	0.06	285	10	72	7.5	540	825	0.8	1031	3600	0.29
104	Books	306	0.06	18	10	3	7	21	39	0.8	49	290	0.17
		5674		340		75		561	901		1126	5090	

maximum Zp 0.2900
System Ventilation Efficiency (Ev) 0.8600 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 901 *from equation 4-7*
OA intake flow rate (Vot) **1047.674** *from equation 4-9*

req'd minimum OA percentage **20.58299**

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–3 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
132	Green Room	214	0.06	13	5	2	5	10	23	0.8	29	170	0.17
133	Storage	39	0.12	5	0	0	0	0	5	0.8	6	70	0.09
135	Side	367	0.12	44	0	0	0	0	44	1.8	24	550	0.04
136	Platform	1761	0.06	106	70	124	5	620	726	0.8	908	2735	0.33
137	Side	377.8	0.06	23	0	0	5	0	23	0.8	29	500	0.06
138	Storage	334	0.12	40	0	1	0	0	40	0.8	50	180	0.28
		3092.8		231		127		630	861		1046	4205	

maximum Zp 0.3300
System Ventilation Efficiency (Ev) 0.8200 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 861 *from equation 4-7*
OA intake flow rate (Vot) **1050** *from equation 4-9*

req'd minimum OA percentage **24.97027**

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–4 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
150	Vestibule	162	0.06	10	0	0	5	0	10	0.8	13	150	0.09
151	Temp Class	162	0.06	10	65	14	5	70	80	0.8	100	350	0.29
152	Temp Class	162	0.06	10	65	14	5	70	80	0.8	100	325	0.31
154	Janitor	40	0.12	5	5	0	5	0	5	0.8	6	290	0.02
156	Elem Storage	32	0.12	4	0	0	0	0	4	0.8	5	40	0.13
156	Elem Classroom	705	0.12	85	35	28	10	280	365	0.8	456	670	0.68
157	Storage	162	0.12	19	0	0	0	0	19	0.8	24	200	0.12
158	Youth Lounge	693	0.12	83	35	36	10	360	443	0.8	554	840	0.66
158	Youth Stor	26	0.12	3	0	0	0	0	3	0.8	4	30	0.13
161	Cribs	198	0.12	24	0	1	5	5	29	0.8	36	150	0.24
162	Corridor	1491	0.06	89	0	0	5	0	89	0.8	111	690	0.16
163	Cry/Nurse	149	0.06	9	5	8	5	40	49	0.8	61	110	0.55
164	Infants	471	0.18	85	25	23	10	230	315	0.8	394	850	0.46
166	Storage	14	0.12	2	0	0	0	0	2	0.8	3	25	0.12
167	Storage	15	0.12	2	0	0	0	0	2	0.8	3	25	0.12
168	Toddlers	477	0.12	57	25	24	10	240	297	0.8	371	875	0.42
170	Check In Area	692	0.06	42	0	0	5	0	42	0.8	53	400	0.13
171	Preschool Theatre	878	0.18	158	25	44	10	440	598	0.8	748	1550	0.48
172	Storage	44	0.12	5	0	0	0	0	5	0.8	6	150	0.04
173	Storage	42	0.12	5	0	0	0	0	5	0.8	6	600	0.01
176	Storage	171	0.12	21	0	0	5	0	21	0.8	26	135	0.19
179	Preschool	527	0.18	95	25	28	10	280	375	0.8	469	1035	0.45
182	Storage	148	0.12	18	0	14	0	0	18	0.8	23	390	0.06
183	Pantry	74	0.12	9	0	14	0	0	9	0.8	11	100	0.11
	Corridor Right	222	0.06	13	0	0	5	0	13	0.8	16	170	0.09
		7757				248		2015	2878		3599	10150	

maximum Zp 0.6800
System Ventilation Efficiency (Ev) 0.4700 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 2015 *from equation 4-7*
OA intake flow rate (Vot) **4287.234** *from equation 4-9*

req'd minimum OA percentage **42.23876**

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–5 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
113	Vestibule	94	0.06	6	0	0	5	0	6	0.8	8	240	0.03
115	Reception	507	0.06	30	10	5	7.5	37.5	67.5	0.8	84	340	0.25
116	Office	157	0.06	9	5	2	5	10	19	0.8	24	190	0.13
117	FL Office	168	0.06	10	5	2	5	10	20	0.8	25	200	0.13
119	WK	139	0.06	8	5	1	5	5	13	0.8	16	75	0.21
122	SVR	67	0.12	8	0	0	5	0	8	0.8	10	40	0.25
125	Lounge	155	0.06	9	5	1	5	5	14	0.8	18	180	0.1
126	Fin Office	207	0.06	12	5	3	5	15	27	0.8	34	120	0.28
127	Pastor Office	283	0.06	17	5	3	5	15	32	0.8	40	330	0.12
129	Storage	32	0.12	4	0	0	6	0	4	0.8	5	30	0.17
130	Office	152	0.06	9	5	2	5	10	19	0.8	24	100	0.24
131	Class/Conference	494	0.06	30	35	23	7.5	172.5	202.5	0.8	253	640	0.4
		2455		152		42		280	432		541	2485	

maximum Zp 0.4000
System Ventilation Efficiency (Ev) 0.7500 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 432 *from equation 4-7*
OA intake flow rate (Vot) **576** *from equation 4-9*

req'd minimum OA percentage **23.17907**

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–6 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
105	Sec	89	0.12	11	0	0	8	0	11	0.8	14	300	0.05
106	MED	65	0.12	8	0	0	5	0	8	0.8	10	40	0.25
109	Storage	18	0.12	2	0	0	5	0	2	0.8	3	25	0.12
110	Class	630	0.06	38	65	41	5	205	243	0.8	304	700	0.43
111	Class	631	0.06	38	65	41	5	205	243	0.8	304	750	0.41
112	Storage	19	0.12	2	0	0	5	0	2	0.8	3	40	0.08
123	Corridor	720	0.06	43	0	0	5	0	43	0.8	54	400	0.14
141	OPEN OFFICE	314	0.06	19	5	15	5	75	94	0.8	118	340	0.35
142	Temp Class	126	0.06	8	65	13	5	65	73	0.8	91	300	0.3
145	Vestibule	253	0.06	15	0	0	5	0	15	0.8	19	140	0.14
146	Security	162	0.06	10	5	0	5	0	10	0.8	13	225	0.06
147	Usher	162	0.06	10	5	2	5	10	20	0.8	25	130	0.19
148	A.V.L.	162	0.06	10	5	2	5	10	20	0.8	25	580	0.04
183	Janitor	72	0.12	9	0	0	5	0	9	0.8	11	50	0.22
	Corridor Left	609	0.06	37	0	0	5	0	37	0.8	46	300	0.15
		3878		241		114		570	811		1040	3980	

maximum Zp 0.4300
System Ventilation Efficiency (Ev) 0.7200 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 811 *from equation 4-7*
OA intake flow rate (Vot) **1126.389** *from equation 4-9*

req'd minimum OA percentage **28.30123**

NOTES:
VENTILATION BASED ON 2018 INTERNATIONAL MECHANICAL CODE

RTU–7 VENTILATION SCHEDULE

room #	room name	area (Az) sf	Area OA rate (Ra, table 403.3) cfm/sf	Area OA (= Ra*Az) cfm	Occupant Density (table 403.3) ppl/1000sf	Zone Population (Pz) ppl	Ppl OA rate (Rp, table 403.3) cfm/person	Occupant OA (=Rp*Pz) cfm	Breathing Zone OA (Vbz, eq 4-1) cfm	Zone Air Distribution Effectiveness (Ez)	Zone OA (Voz) cfm	Supply Air Design (Vps) cfm	OA Fraction (Zp, eq 4-5)
180	Commercial Kitchen	741	0.12	89	20	14	7.5	105	194	0.8	243	2060	0.12
		741				14		105	194		243	2060	

maximum Zp 0.1200
System Ventilation Efficiency (Ev) 1.0300 *from table 403.3.2.3.2*
Occupant Diversity (D) 1 *no diversity in occupancy*
Uncorrected OA (Vou) 105 *from equation 4-7*
OA intake flow rate (Vot) **101.9417** *from equation 4-9*

req'd minimum OA percentage **4.948629**

NOTES:
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REVISIONS/ADDENDUMS

VENTILATION SCHEDULES

M505

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D C B A

1/2" DIA. ALL THREAD ROD CONNECTED TO ROOF JOIST THROUGH ANCHORED HANGING ANGLE

1/2" dia. DRIVE SHAFT BOLT AND NUT WITH TWO WASHERS WELDED TO HANGING ANGLE

HOOD ARE SHIPS TO JOB SITE WITH HANGING ANGLES INSTALLED BY OTHERS

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	600 DEGREES	800 DEGREES	1000 DEGREES
	cfm/ft.	cfm/ft.	cfm/ft.
CANOPY 48D-0	150	200	250
ISLAND 48D-WALL & END PANELS	105	140	175
SLOPED 59D-0	228	294	"
ISLAND 66D-0W	268	300	350
ISLAND 66D-0	346	422	475

ETL HOOD LISTING DETAIL

EXHAUST FOR A CANOPY OF HOOD IS CALCULATED, SUPPLY FOR A CANOPY OR A PERIMETER REQUIRED

TOTAL EXHAUST CFM = TOTAL HOOD LENGTH (FT) × CFM/FT (FROM TABLE)

TOTAL SUPPLY CFM = TOTAL EXHAUST CFM − 300 CFM

EXIT LENGTH = TOTAL HOOD LENGTH − 2(EXIT WIDTH)

* EXTERIOR WALLS OR EXIT WIDTHS OR LENGTHS MAY BE REDUCED FROM THESE VALUES PROVIDED THAT THE TOTAL EXIT LENGTH AND EQUIVALENT LENGTH SET MANUAL FOR DETAILS

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS BUILT IN COMPLIANCE WITH:

- NFPA 96
- UL 710
- Intertek ETL File number 3004604-001/002

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

INSTALLATION

A. ALL ELECTRICAL "PLUG" CONNECTIONS ARE RELATED TO EQUIPMENT SUPPLIED BY CAPTIVE-AIRE.
B. ALL PLUMBING "PLUG" CONNECTIONS ARE RELATED TO EQUIPMENT SUPPLIED BY PLUMBING CONTRACTORS.
C. ALL ELECTRICAL WIRING TO BE INSTALLED BY OTHERS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
D. ALL CONNECTIONS FROM EQUIPMENT RIGID PIPE TO BUILDING SERVICES ARE TO BE MADE BY LOCAL LICENSED PLUMBERS OR ELECTRICIANS.
E. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
F. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL FUEL GAS CODE, NFPA 54/ANSI Z223.1, AND THE NATIONAL MECHANICAL CODE, NFPA 96.
G. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS, INSTALLED UNDER HOODS SHALL BE VAPORPROOF.
H. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. RESPONSIBILITY FOR SATISFACTORY OPERATION OF EQUIPMENT AND SYSTEMS RESTS WITH THE INSTALLING CONTRACTORS. CAPTIVE-AIRE DISCLAIMS ANY RESPONSIBILITY FOR IMPROPER INSTALLATION, MAINTENANCE OR SERVICING OF EQUIPMENT OR SYSTEMS. REFER TO INSTRUCTIONS SUPPLIED WITH EQUIPMENT FOR DETAILS.

DELETIONS

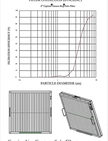
A1. GREASE HOODS MUST BE SEALED INTO CEILING.
A2. STEEL PANS ARE REQUIRED WITH INSERT FILTERS.
A3. REFRIGERANT SHALL BE PIPING BY OTHERS WITH CERTIFIED INSTALLER.

ADDITIONS

A4. WATER WASH ENCLOSURE AND PRESSURIZED MAKE UP/AIR.
A5. SHAFT AND EQUIPMENT SUPPLIED BY THE ENCLOSURE MANUFACTURER OR PLANT ENGINEER.

GENERAL NOTES

FILTER COLLECTION EFFICIENCY



CaptiveAire Capremi Solo Filter
ETL Listed Grease Extracting Filters
Made From 430 Stainless Steel

FILTER DETAIL

FOR QUESTIONS, CALL THE
Maryland Office
(800) 388-2248
PHONE: (800) 988 - 0888
EMAIL: mp2@econair.com

PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2500026.
AC-PSP ISLAND (CANADA) - CA PATENT 2500235.

HOOD INFORMATION — JOB#6246435

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	EXH. CFM	EXHAUST PLENUM							HOOD CONSTR.	HOOD ENDS	
										WIDTH	LENG	HEIGHT	SIDA	CFM	VEL	SP		END TO END	RCV
1	Hood#1 (LEFT)	5424 EX-2-ACPSP-F	CON-KOR	6' 10"	600 DEG	1	HEAVY	200	1367			4"	12"	1367	1741	-0.634"	1062	430 SS WHERE EXPOSED	LEFT	ALONE
2	Hood #2 (RIGHT)	5424 EX-2-ACPSP-F	CON-KOR	9' 10"	600 DEG	1	HEAVY	200	1767			4"	14"	1767	1653	-0.672"	1502	430 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTERS				LIGHTS				UTILITY CABINET(S)				FIRE SYSTEM PIPING	ADDED HANGING WEIGHT
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	ELECTRICAL	SWITCHES		
														MODEL #	QUANTITY		
1	Hood#1 (LEFT)	CAPTIVATE SOLO FILTER	5	20"	16"	BSS SEE FILTER SPEC	4	LSS SERIES E26	NO							YES	548 LBS
2	Hood #2 (RIGHT)	CAPTIVATE SOLO FILTER	6	20"	16"	BSS SEE FILTER SPEC	5	LSS SERIES E26	NO							YES	634 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Hood#1 (LEFT)	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 48.00" HIGH X 188.00" LONG 430 SS VERTICAL.
		BALANCE DAMPERS.
		SENSOR-CV.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	Hood #2 (RIGHT)	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		BALANCE DAMPERS.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISERS(S)		
							WIDTH	LONG	SIA	CFM	SP
1	Hood#1 (LEFT)	Front	82"	26"	6"	MUA	10"	29"		581	0.151"
						MUA	10"	29"		581	0.151"
						AC	6"	16"		256	0.073"
2	Hood #2 (RIGHT)	Front	106"	26"	6"	AC	6"	16"		256	0.073"
						MUA	10"	29"		731	0.251"
						AC	6"	16"		293	0.062"
						AC	6"	16"		293	0.062"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM		ELECTRICAL	SWITCHES	WEIGHT
			TYPE	SIZE	MODEL #	QUANTITY	
1	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0	SCV-1111	1 LIGHT 1 FAN	340.00 LBS

VERIFY CEILING HEIGHT

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE _____
Your Title _____ Date _____

PG COUNTY NOTES

KITCHEN EXHAUST HOOD DESIGN STANDARDS
AC SUBMITTAL REQUIREMENTS

1. CAPTIVE-AIRE HOODS ARE DESIGNED AND BUILT IN COMPLIANCE WITH:
   a. IMC 2018, CHAPTER 5.
   b. NFPA 96, 2017.
   c. FOOD AND DRUG ESTABLISHMENT VENTILATION CRITERIA, DEPARTMENT OF HEALTH & MENTAL HYGIENE.
   d. UL 710.
2. ALL WELDED SEAMS ON EXHAUST HOODS SHALL BE WELDED LIQUID-TIGHT.
3. EXHAUST FAN MOTOR SHALL BE LOCATED OUTSIDE OF THE EXHAUST DUCT. EXHAUST DISCHARGE MUST TERMINATE AT LEAST 40 INCHES ABOVE THE HIGHEST POINT THE SURFACE OF THE ROOF MEETS THE DUCT.
4. MAKE UP AIR FANS MUST BE ELECTRICALLY INTERLOCKED WITH THE HOOD EXHAUST FANS.
5. ALL OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM THE EXHAUST DUCT TERMINATION.
6. FOR LISTED HOODS, A 6" OVERHANG MINIMUM IS REQUIRED ON ALL SIDES OF COOKING SURFACE.
7. GREASE TROUGH SHALL BE SLOPED TO REMOVABLE GREASE CUP (1 GALLON MAX)
8. CLEARANCE TO COMBUSTIBLES SHALL BE OBSERVED FOR THE FOLLOWING:
   a. 18 INCHES, OR ETL CLEARANCE REDUCTION METHOD.
   b. 3 IN. OR 1 IN. WITH 3 IN. AIR GAP, AS APPLICABLE, OR
   c. 9 IN. OR 3 IN. ALL FOLLOWING NFPA 96 GUIDELINES (1-5.2.1)
9. EXHAUST HOOD METAL SHALL BE A MINIMUM OF 18 GA ALUMINIZED STEEL AND 16 GA STAINLESS STEEL.
10. EXHAUST COLLAR METAL SHALL BE A MINIMUM OF 16 GA ALUMINIZED STEEL AND 18 GA STAINLESS STEEL.
11. ALL GREASE FILTERS ARE INSTALLED AT 53 DEGREE ANGLE
12. DISTANCE FROM THE FLOOR TO THE BOTTOM OF THE HOOD ON A CANOPY EXHAUST HOOD SHALL BE NOT LESS THAN 6 FEET 6 INCHES (1981 MM) FOR COOKING APPLIANCES.
13. DISTANCE FROM THE COOKING SURFACE TO THE BOTTOM OF THE FILTER SHALL BE GREATER THAN 18" OR WITHIN THE HOOD'S ETL LISTING (SEE DRAWINGS).
14. CAPTIVE-AIRE HOODS ARE DESIGNED TO BE INSTALLED AT ALL CHANGES OF DIRECTION AND AT 12 FT INTERVALS ON ALL HORIZONTAL RUNS.
15. CLEANOUTS ON THE EXHAUST DUCT SHALL HAVE A MINIMUM DIMENSION OF 12".
16. AN AUTOMATIC SUPPRESSION SYSTEM COMPLYING WITH UL300 SHALL BE INSTALLED IN THE KITCHEN HOOD SYSTEM.
17. IF A GAS SHUT OFF IS REQUIRED, THE AUTOMATIC SUPPRESSION SYSTEM MUST BE CONNECTED TO THE FIRE ALARM SYSTEM.
18. ACTIVATION OF THE SYSTEM SHALL AUTOMATICALLY SHUT OFF ALL FUEL AND HEAT SOURCES BELOW THE COOKING APPLIANCES PROTECTED.
19. MANUAL ACTIVATION OF THE SUPPRESSION SYSTEM SHALL BE LOCATED AT LEAST 10' BUT NOT MORE THAN 20' AWAY FROM THE EXHAUST HOOD, IN THE PATH OF EGRESS.
20. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA10.
   FIRE EXTINGUISHERS ARE PROVIDED BY FIRE SYSTEM CONTRACTOR SEPARATE FROM KEC PACKAGE.

HVAC DISTRIBUTION NOTE

IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

EXHAUST HOOD DETAILS

HOOD #1
Size of Hood (LxW) in feet: 8.83 x 4.50
Exhaust Fan Capacity (UL listed hood): 1367CFM
Exhaust Duct Dimensions (LxW) in inches:
-> Exhaust Riser #1: 12" DIA

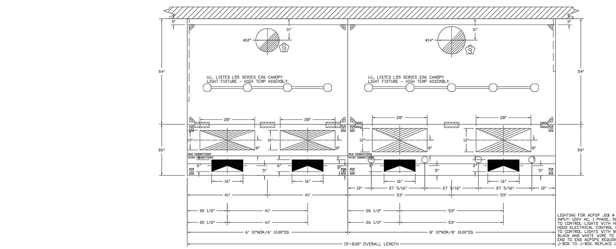
Exhaust Duct Velocity (1500-2200 FPM)
-> Exhaust Riser #1: 1741 FPM

Make-up Air: 85% of CFM exhaust provided at the hood, for additional MUA reference mechanical plans
Grease Filter information: see Hood Information table
Grease Filter total area: 2880 square inches

HOOD #2
Size of Hood (LxW) in feet: 8.83 x 4.50
Exhaust Fan Capacity (UL listed hood): 1767CFM
Exhaust Duct Dimensions (LxW) in inches:
-> Exhaust Riser #1: 14" DIA

Exhaust Duct Velocity (1500-2200 FPM)
-> Exhaust Riser #1: 1653 FPM

Make-up Air: 85% of CFM exhaust provided at the hood, for additional MUA reference mechanical plans
Grease Filter information: see Hood Information table
Grease Filter total area: 2880 square inches


UL LISTED LSS SERIES E26 CANOPY LIGHT FIXTURE — 250W TEMP ASSEMBLY
UL LISTED LSS SERIES E26 CANOPY LIGHT FIXTURE — 250W TEMP ASSEMBLY
54"
29"
17"
29"
17"
29"
17

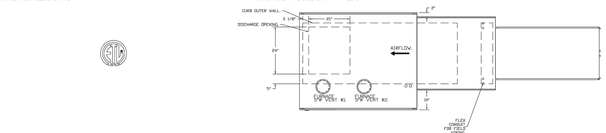
FAN AE EAP-287-400-200-050-050 = HEATER VM4x10

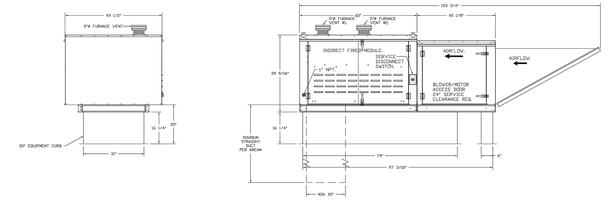
1. INDIRECT BOX TUBE GAS FIRED HEATER WITH 80" MIXED FLOW DIRECT DRIVE FAN, 2 FURNACES, ELECTRONIC FUEL IGNITION, 80% THERMAL EFFICIENCY, AND 150 MAX TEMPERATURE FOR MIL 050 MAX TEMPERATURE FOR UPS. STAINLESS STEEL BURNER AND HEAT EXCHANGER
2. INTAKE HOOD WITH 42 FILTERS
3. ELECTRICAL CONNECTIONS - RIGHT -> LEFT
4. 2 LOCKING ACCESS DOORS, ONE EACH SIDE, (8) HEATERS WITH 1 MODULE FOR STANDING POWER. 120V MUST BE RUN
5. 2 LOCKING ACCESS DOORS, ONE EACH SIDE, (8) HEATERS WITH 1 MODULE FOR STANDING POWER. 120V MUST BE RUN
6. MOTORIZED BACK DRAFT DAMPER 20/30" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/CONTINUOUS SHAFT, STANDARD DUTY, 16 GAUGE GALVANIZED STEEL FRAME AND BLADES. DAMPER TURNS ACTUATOR INCLUDES
7. GAS PRESSURE GAUGE, 0-30", 2.5" DIAMETER, 1/4" THREAD SIZE
8. GAS PRESSURE GAUGE, 0 TO 10 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE, REAR THREAD, FOR 2 FURNACES.
9. GAS PRESSURE REGULATOR, 1/2" NPT, 0.5 TO 2.0 PSIG
10. SEPARATE SERVICE WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN HEATING VFD IS PROVIDE ELECTRICIAN FROM DCV TO RUN SWITCH.
11. DUCT MOUNTED VFD FOR USE WITH ECP/MCS
12. DUCT MOUNTED VFD FOR USE WITH ECP/MCS
13. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (ALUMINUM/ALUMINUM SECTION)
14. 5 YEAR PARTS AND LABOR WARRANTY, 20 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY.
15" - 15 PATENT WITHIN BE

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED BETWEEN THE UNIT DISCHARGE AND ANY DUCT TRANSITIONS, TURNING VANES, FLEXIBLE DUCTWORK, OR DUCT TAKE-OFFS. THE UNIT MUST BE PROVIDED THROAT RADIUS BACK INTO TURNING VANES, FLEXIBLE DUCTWORK, AND SQUARE THROAT-SQUARE BOX ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL CAUSE A REDUCTION IN AIRFLOW AND INCREASE IN STATIC PRESSURE. THIS WILL RESULT IN A REDUCTION IN UNIT VOLT. FAILURE TO PROVIDE A SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 28" x 28".

SUPPLY SIZE HEATER INFORMATION

VENTED TEMPERATURE = 69°F, TEMP RISE = 59°F,
SUPPLY SIZE AT ALTITUDE OF 0 FT. = 2000CFM
SUPPLY SIZE AT ALTITUDE OF 500 FT. = 2000CFM





OPTIONS:
- FULL BOTTOM CORNERS.

econ·air
Maryland Office
8120 Woodmont Avenue, Suite 720, Bethesda, MD, 20814 PHONE: (800) 988 - 0881 FAX: 9782378941 EMAIL: mp2@econair.com

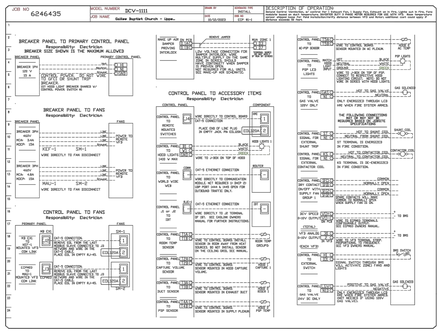
Galilee Baptist Church - Upper Marlboro, MD, RI

9/27/2023
6246435
BT-32
3/4" = 1'-0"
MASTER DRAWING
4

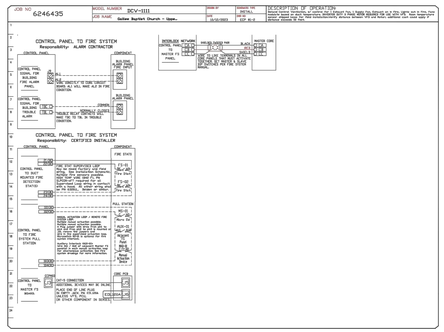
ELECTRICAL PACKAGE — JOB#6246435

NO	TAG	PHOENIX	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FANS CONTROLLED FAN TAG	TYPE	Z	HP	SUPLY,FLA
1		3CV-1111	WALL UTILITY CABINET LEFT	SHIP LOOSE 1/ PHOTO	1 LIGHT 1 FAN	SMART CONTROLS 3CV	KEF-1	3 PHASE	460	2.7
							PAU-1	3 PHASE	460	3.8

JOB NO 6246435 | MODEL NUMBER 3CV-1111 | JOB NAME Galilee Baptist Church - Upper... | DRAWN BY | CHANGED FOR INSTALL | DESCRIPTION OF OPERATION: See Sheet M-506 for + Info | DATE 03/22/2023 | SHT NO M-5



JOB NO 6246435 | MODEL NUMBER 3CV-1111 | JOB NAME Galilee Baptist Church - Upper... | DRAWN BY | CHANGED FOR INSTALL | DESCRIPTION OF OPERATION: See Sheet M-506 for + Info | DATE 03/22/2023 | SHT NO M-5



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Galilee Baptist Church - Upper Marlboro, MD, RI

9/27/2023
6246435
BT-32
3/4" = 1'-0"
MASTER DRAWING
6

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐

SIGNATURE _____
Your Title _____ Date _____

SEQUENCE OF OPERATION – HOOD CONTROLS

ELECTRICAL PACKAGE: FP SERIES

ALL POWER, LIGHTING, MICROSWITCH AND TEMPERATURE PROBE CONNECTIONS AND INTERLOCKS TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER SCHEMATICS PROVIDED WITH EQUIPMENT.

TWO METHODS TO ACTIVATE EXHAUST SYSTEM:

Manual activation:
Operator presses the fan button to energize contactor(s) and start the exhaust fan(s). Supply fan(s), if present, will be activated by factory pre-wired interlock.

Automatic activation:
Turn on cooking appliances. Exhaust fan(s) [and supply fan(s), if present] will automatically energize when duct temperature exceeds pre-set differential with respect to ambient room temperature (factory setpoint differential = 10 degrees F, adjustable). At the end of the day, after cooking operations have ceased, the fan(s) will shut off when the duct temperature falls below the setpoint differential.

FIRE CONDITION
IN THE EVENT OF A FIRE, A SIGNAL IS SENT ACROSS THE NORMALLY OPEN DRY CONTACT OF THE FIRE SUPPRESSION SYSTEM MICROSWITCH (INTERLOCKED WITH HOOD CONTROL PANEL BY ELECTRICIAN). EXHAUST FAN(S) TO REMAIN RUNNING, SUPPLY FAN(S) TO DE-ENERGIZE, LIGHTING CIRCUIT(S) TO DE-ENERGIZE. MICROSWITCH MUST BE RESET PRIOR TO RESUMPTION OF NORMAL OPERATION.

NOTE TO ELECTRICAL CONTRACTOR

CAPTIVEAIRE HOOD CONTROL PACKAGE IS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AND SHOWN ON ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES ONLY. ALL FIELD WIRING AND INTERLOCKS TO BE COMPLETED BY ELECTRICAL CONTRACTOR. CONTACT CAPTIVEAIRE WITH QUESTIONS REGARDING SCOPE OF WORK: (800) 988-0881

HOOD CONTROL DETAILS

JOB NO 6246435 | MODEL NUMBER 3CV-1111 | JOB NAME Galilee Baptist Church - Upper... | DRAWN BY | CHANGED FOR INSTALL | DESCRIPTION OF OPERATION: See Sheet M-506 for + Info | DATE 03/22/2023 | SHT NO M-5

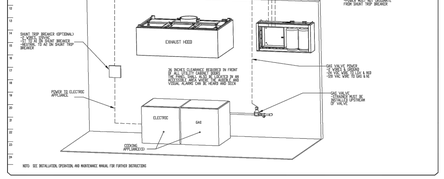
WALL MOUNT UTILITY CABINET CAS ELECTRIC WET CHEMICAL PROTECTION ELECTRICAL DETAIL

02/15/2023 Rev. 02

FS-1: MASTER

FUNCTIONS:
1. FAN CONTROL
2. FAN INTERLOCK
3. GAS VALVE INTERLOCK
4. REMOTE MANUAL GAS VALVE CONTROL

ELECTRICAL CONTRACTOR REQUIREMENT				
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE
SHUNT TRIP BREAKER (OPTIONAL)	(1) 5 A	BREAKER COIL	120 VAC	< 1 AMPS
CONTROL PANEL POWER	#6 5 A = 20SMS	CIRCUIT BREAKER	120 VAC	15 AMPS
LED APPLIANCE KILL SWITCH (OPTIONAL)	#25 5 A	#25 5 A	120 VAC	< 1 AMPS
REMOTE (DUCT MOUNTED) MANUAL ACTUATION (OPTIONAL)	#6, #27	CLOSED	120 VAC	< 1A AMPS
GAS VALVE	#29 5 A (#6 OF #29 TIED TOGETHER)	#29/#25/GREEN	24 VAC (FROM TRANSFORMER)	< 1A AMPS



JOB NO 6246435 | MODEL NUMBER 3CV-1111 | JOB NAME Galilee Baptist Church - Upper... | DRAWN BY | CHANGED FOR INSTALL | DESCRIPTION OF OPERATION: See Sheet M-506 for + Info | DATE 03/22/2023 | SHT NO M-5

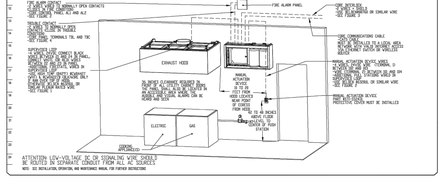
WALL MOUNT UTILITY CABINET CAS ELECTRIC WET CHEMICAL PROTECTION LOW-VOLTAGE DETAIL

02/15/2023 Rev. 1

FS-1: MASTER

FUNCTIONS:
1. FAN CONTROL
2. FAN INTERLOCK
3. GAS VALVE INTERLOCK
4. REMOTE MANUAL GAS VALVE CONTROL

ALARM CONTRACTOR REQUIREMENT				
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE
MANUAL ACTUATION DEVICE(S)	(2) #58, (2) #59	1 & 2	24 VDC	< 1.0 AMPS
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A
REMOTE (CIRCUIT SOUNDER)	(2) #58, (2) #59	BLACK AND WHITE	24 VDC	< 1.0 AMPS
FIRE ALARM CONTACT	ALC, ALZ	VARIES	30V MAX (UP TO 1 AMP)	UP TO 1 AMP
CORE INTERLOCK(S)	5 A, 5 B, 5 C	5 A, 5 B, 5 C	#3 AWG (FROM MOTOR)	CORE CONTACTS ARE TO BE RATED FOR 120 VAC AT 5.0 AMPS. THE CONTACTS ARE TO BE RATED FOR 24 VDC AT 5.0 AMPS.
TROUBLE CONTACT	TRC, TSL, TSR	VARIES	MAX 120 VAC	5.0 A WIRE TO TB, & THE NORMALLY OPEN CONTACT CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	CLE AMPS



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Galilee Baptist Church - Upper Marlboro, MD, RI

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Fax: (614) 875-7006
www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

DESIGN TECH
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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

HOOD DETAILS

M507

14 OF 14 SHEETS

216118

5 4 3 2 1

D C B A

SYMBOLS, SPECIFICATIONS, NOTES & ABBREVIATIONS

A. GENERAL

1. THE CONTRACTOR SHALL COMPLY WITH ALL THE LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENTAL AUTHORITIES, THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AS INTERPRETED BY THE ENFORCING AUTHORITY HAVING JURISDICTION AND OF THE PUBLIC UTILITIES HAVING CONNECTION WITH ANY OF THE SYSTEMS HEREIN SPECIFIED.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES, AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK. ALL CERTIFICATES SHALL BE IN DUPLICATE AND SHALL BE DELIVERED TO THE ARCHITECT.
3. THE SITE, LOCATION AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS WOULD PERMIT. BIDDERS SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT BEFORE SUBMITTING A BID, ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDING OF THE CONTRACTUAL REQUIREMENTS.
4. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS AND FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS COMPLETE.
5. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD.
6. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN CIRCUITRY AND OTHER ITEMS REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES.
7. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATIONS. ALL NEW EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.
8. ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FROM ALL DEFECTS FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK.
9. ALL EQUIPMENT INSTALLED SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND UNDERWRITERS LABORATORIES, INC., (UNLESS INDICATED OTHERWISE). SUBSTITUTIONS SHALL ONLY BE ACCOMPLISHED AT THE DISCRETION OF THE ARCHITECT. SHOP DRAWINGS ARE TO BE SUBMITTED AND APPROVED BEFORE THE EQUIPMENT IS ORDERED. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS TO THE ARCHITECT OF THE FOLLOWING : LIGHTING FIXTURES, DISCONNECT SWITCHES, PANELBOARDS, TRANSFORMERS, FIRE ALARM SYSTEM AND WIRING DEVICES.
10. DEFINITIONS
    a. "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
    b. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
    c. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
    d. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS.
11. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC.
12. PROVIDE TEMPORARY SERVICE FOR LIGHTING AND POWER EQUIPMENT (DRILLS, SAW, ETC.). VERIFY TEMPORARY REQUIREMENTS WITH GENERAL CONTRACTOR. TEMPORARY LIGHTING AND POWER SHALL MEET OSHA REQUIREMENTS AND LOCAL CODE. TEMPORARY POWER SHALL BE 120 VOLTS.
13. FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT AND ALL SPLICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. RACEWAYS, BOXES AND CONDUITS

1. OUTDOORS WIRING METHODS: USE THE FOLLOWING WIRING METHODS:
    a. EXPOSED: RIGID OR INTERMEDIATE METAL CONDUIT OR RIGID ALUMINUM CONDUIT.
    b. CONCEALED: RIGID OR INTERMEDIATE METAL CONDUIT.
    c. UNDERGROUND: RIGID NONMETALLIC CONDUIT, UNLESS OTHERWISE NOTED.
    d. CONNECTION TO VIBRATING EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
    e. BOXES AND ENCLOSURES: NEMA TYPE 3R.
2. INDOORS WIRING METHODS: USE THE FOLLOWING METHODS:
    a. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT, EXCEPT IN WET OR DAMP LOCATIONS USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
    b. DAMP OR WET LOCATIONS: RIGID STEEL CONDUITS.
    c. EXPOSED: ELECTRICAL METALLIC TUBING.
    d. CONCEALED: ELECTRICAL METALLIC TUBING OR, AS APPROVED, ARMOR-CLAD (MC) CABLE.
    e. BOXES AND ENCLOSURES: NEMA TYPE 1, EXCEPT IN DAMP OR WET LOCATIONS USE NEMA TYPE 3R.
3. ALL CIRCUITRY IN FINISHED AREAS SHALL BE RUN CONCEALED. MINIMUM SIZE CONDUIT SHALL BE 1/2".
4. EMT CONNECTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, COMPRESSION TYPE.
5. EXPOSED AND CONCEALED CIRCUITRY (WHETHER CONDUIT AND WIRE OR CABLE) SHALL BE RUN TIGHT TO CEILING SLAB (AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM) IN A NEAT, WORKMANLIKE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS.
6. ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTES.
7. ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A MAXIMUM OF 3-90 DEGREE BENDS. PROVIDE 1" EMT FROM EACH TELEPHONE OR COMMUNICATION OUTLET DEVICE TO CEILING SPACE FOR ALL INSULATED WALLS.
8. EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN A RACEWAY, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER.

C. WIRE AND CABLE

1. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 (EXCEPT CONTROL CONDUCTORS AND LIGHTING TAPS AS PERMITTED BY NEC. CONDUCTORS FOR SWITCHING LIGHTS SHALL NOT BE CONSIDERED CONTROL CONDUCTORS), WITH 600 VOLT TYPE "THHN-THWN" INSULATION. CONDUCTORS #8 AND LARGER SHALL BE STRANDED. CONDUCTOR SIZES ARE BASED ON 75°C RATING.
2. WHERE APPROVED BY THE AUTHORITIES HAVING JURISDICTION, "MC" CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS. ALL "MC" CABLE SHALL HAVE A GREEN INSULATED GROUND WIRE IN ADDITION TO THE BONDING WIRE.
3. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 100 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM.
4. RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (I.E., 1,3,5)
5. WHERE APPROVED BY THE AUTHORITIES HAVING JURISDICTION, "NMC" CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS IN THE RESIDENTIAL UNITS. ALL "NMC" CABLE SHALL HAVE A GREEN GROUND WIRE IN ADDITION.
6. PROVIDE UL LISTED FIRE RATED CONDUCTORS IN CONDUIT FOR CONTROL AND POWER WIRING SERVING EMERGENCY SYSTEMS THROUGHOUT THE BUILDING AS PER NEC ARTICLE 700.10(D)(1) AND IBC SECTION 909.20.6.1.3(EXCEPTION 3) & [F] IBC 909.12.2. THE CONDUCTORS SHALL BE UL LISTED MINIMUM 2-HOUR RATED WHEN INSTALLED IN CONDUIT. EMERGENCY SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO FEEDERS SERVING EGRESS LIGHTING, FIRE ALARM SYSTEM, AND VOICE EVACUATION SYSTEM.

D. SUPPORTING DEVICES

1. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC REQUIREMENTS AND ANY ADDITIONAL LOCAL CODES.
2. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.

E. EQUIPMENT CONNECTION

1. EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO ALL EQUIPMENT. BEFORE ROUGHING IN, THE LOCATION AND TYPE OF DEVICE SHALL HAVE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT. STARTERS AND DISCONNECTS AND OTHER ELECTRICAL CIRCUITRY AND DEVICES SHALL BE LOCATED TO ALLOW ACCESS TO DEVICES AND NOT INTERFERE WITH THE OPERATION OF THE MECHANICAL OR ARCHITECTURAL DEVICES OR THEIR POSSIBLE MAINTENANCE OR REMOVAL.
2. ALL EQUIPMENT PROVIDED ON THIS PROJECT SHALL HAVE MANUFACTURER TERMINATIONS RATED 75°C.

F. WIRING DEVICES AND TELPHONE/DATA OUTLETS

1. THE LOCATION OF ALL WIRING DEVICES AND TELEPHONE/DATA OUTLETS SHALL BE VERIFIED BEFORE INSTALLATION WITH THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE WITHIN 5 FEET AT NO CHARGE TO THE OWNER.
2. WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A MULTI-GANG BOX AND PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED BY PERMANENTLY INSTALLED BOX PARTITIONS.
3. ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
4. WALL MOUNTED WIRING DEVICES SHALL BE SELECTED BY THE ARCHITECT AND EQUAL TO THE FOLLOWING:

SINGLE POLE SWITCH	HUBBELL 1221
TWO-POLE SWITCH	HUBBELL 1222
THREE-WAY SWITCH	HUBBELL 1223
DIMMER SWITCH	LUTRON NOVA SERIES
WALL SENSOR	WATTSTOPPER DUAL TECH DW-100
CEILING SENSOR	WATTSTOPPER DUAL TECH DT-300 W/B2-150 POWER PACK
WALL VACANCY SENSOR SWITCH	WATTSTOPPER CS-50
DUPLEX RECEPTACLE	HUBBELL 5352
DUPLEX RECEPTACLE WITH GFCI*	HUBBELL GF 5352
DUPLEX RECEPTACLE WITH USB	LEVITON T-5832

*GFCI - GROUND FAULT CIRCUIT INTERRUPTER

5. DEVICE PLATES AND COVERS SHALL BE SELECTED BY THE ARCHITECT.
6. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR.
7. COORDINATE WALL MOUNTED TELEPHONE/DATA OUTLET LOCATIONS WITH THE ARCHITECT. TELEPHONE/DATA OUTLET CONDUCTORS WILL BE INSTALLED BY OTHERS.

G. ELECTRICAL IDENTIFICATION

1. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:

208/120 VOLTS	PHASE	480/277 VOLTS
BLACK	A	BROWN
RED	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY
GREEN	GROUND	GREEN

2. APPLY EQUIPMENT IDENTIFICATION LABELS (MINIMUM 1" HIGH LETTERS) OF ENGRAVED PLASTIC-LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT.
3. FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTION AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.

H. GROUNDING

1. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE THE NEC EXCEPT WHERE GROUNDING IN EXCESS OF NEC REQUIREMENTS IS INDICATED.
2. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTOR.

I. FUSES

1. INSTALL FUSES IN FUSIBLE DEVICES AS INDICATED.
2. INSTALL TYPEWRITTEN LABELS ON THE INSIDE DOOR OF EACH FUSED SWITCH TO INDICATE FUSE REPLACEMENT INFORMATION.
3. ALL FUSES SHALL BE CLASS RK-5 TIME DELAY TYPE, UNLESS OTHERWISE INDICATED.
4. SPARE FUSES: FURNISH 1 SET OF 3 OF EACH FUSE TYPE AND SIZE INSTALLED.

J. DISCONNECTS AND CIRCUIT BREAKERS

1. ENCLOSED FUSIBLE AND NON-FUSIBLE SWITCH SHALL BE NEMA HEAVY-DUTY TYPE WITH ENCLOSURE CONSISTENT WITH ENVIRONMENT WHERE LOCATED, HANDLE LOCKABLE WITH 2 PADLOCKS, AND INTERLOCKED WITH COVER IN "CLOSED" POSITION. ENCLOSED FUSIBLE SWITCHES SHALL BE NEMA HEAVY-DUTY TYPE WITH CLIPS TO ACCOMMODATE SPECIFIED FUSES. SWITCHES SHALL HAVE MINIMUM FAULT CURRENT RATING OF 200,000 SYMMETRICAL RMS AMPERES
2. LOCATE DISCONNECT SWITCH (AND MOTOR CONTROLLER) FOR MECHANICAL EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. CHECK MOTORS FOR PROPER ROTATION. CONNECT CONDUCTORS AS REQUIRED BY MANUFACTURER.
3. ENCLOSED MOLDED-CASE CIRCUIT BREAKER: FRAME SIZE, TRIP RATING, NUMBER OF POLES, AND AUXILIARY DEVICES AS INDICATED; INTERRUPTING CAPACITY RATING TO MEET AVAILABLE FAULT CURRENT, 10,000 SYMMETRICAL RMS AMPERES MINIMUM; WITH APPROPRIATE APPLICATION LISTING WHEN USED FOR SWITCHING FLUORESCENT LIGHTING LOADS OR HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT.
4. ENCLOSURE: NEMA TYPE 1, UNLESS SPECIFIED OR REQUIRE OTHERWISE TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION.
    a. OUTDOOR LOCATIONS AND OTHER WET OR DAMP INDOOR LOCATIONS: TYPE 3R
5. PROPERLY SUPPORT DISCONNECT OR ENCLOSED CIRCUIT BREAKER ON WALL WITH METAL FRAMING AS REQUIRED.
6. PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL OR HACR CIRCUIT BREAKERS.
7. PROVIDE DISCONNECTS BY THE SAME MANUFACTURER AS THE PANELBOARDS.

K. PANELBOARDS

1. IN PANELBOARDS, "EQUIPPED SPACE" OR "SPACE" IS DEFINED TO INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE.
2. ALL PANELBOARDS SHALL BE EQUIPPED WITH COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH COVERS AND TRIMS AND SHALL CONTAIN A GROUND BUS. PANELBOARD BUS SHALL BE COPPER. PANELBOARD CIRCUITING SHALL MATCH THE DRAWINGS. CIRCUITING CHANGES MUST BE APPROVED BY THE ARCHITECT.
3. BEFORE ORDERING PANELBOARDS, COORDINATE ALL MOTOR CIRCUIT BREAKER TRIPS WITH MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER MECHANICAL AND ARCHITECTURAL EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY.
4. SURFACE MOUNTED PANELBOARD CABINETS SHALL BE INSTALLED ON AN APPROVED STEEL FRAMEWORK TO DISTRIBUTE THE WEIGHT EVENLY TO THE WALL AND FLOOR AND TO PROVIDE A 1-INCH AIR SPACE BETWEEN WALL AND CABINET. PAINT FRAMEWORK WITH TWO COATS OF GRAY ENAMEL AFTER FABRICATION.
5. PANELBOARD SHALL BE EQUAL TO SQUARE D TYPE NEHB OR NQOD UNLESS OTHERWISE NOTED.

L. TRANSFORMERS

1. DRY-TYPE TRANSFORMERS SHALL COMPLY WITH NEMA STANDARD ST20 "DRY-TYPE TRANSFORMERS FOR GENERAL APPLICATIONS".
2. GENERAL-PURPOSE, DRY-TYPE TRANSFORMERS SHALL BE EQUAL TO SQUARE D CLASS 7411 GENERAL PURPOSE TRANSFORMERS.
3. NON-LINEAR LOAD SERVICE, DRY-TYPE TRANSFORMERS SHALL BE EQUAL TO SQUARE D "NLP SERIES" WITH UL K-13 RATING.
4. TRANSFORMER SHALL BE SAME MANUFACTURER AS PANELBOARDS.

M. MOTOR CONTROLLERS

1. MOTOR CONTROLLER FEATURES: PROVIDE CONTROLLERS CONSISTENT WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT, THE MOTOR, THE REQUIRED CONTROL SEQUENCE, THE DUTY CYCLE OF THE MOTOR, DRIVE AND LOAD AND THE PILOT DEVICE AND CONTROL CIRCUIT AFFECTING CONTROLLER FUNCTIONS. CONTROLLERS SHALL BE HORSEPOWER RATED TO SUIT THE MOTOR CONTROLLED.
    a. CONTACTS SHALL OPEN EACH UNGROUNDED CONNECTION TO THE MOTOR.
    b. OVERLOAD RELAYS: FOR MOTORS ½ HP OR LARGER, PROVIDE IN EACH PHASE AMBIENT COMPENSATED TYPE WITH INVERSE TIME-CURRENT CHARACTERISTIC, WITH HEATER OR SENSORS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF THE SPECIFIC MOTOR TO WHICH CONNECTED, WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.
    c. ENCLOSURES FOR INDIVIDUALLY MOUNTED MOTOR CONTROLLERS AND CONTROL DEVICES: SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE CONTROLLER LOCATION. PROVIDE NEMA TYPE 1 ENCLOSURE EXCEPT AS OTHERWISE INDICATED.
2. MANUAL MOTOR CONTROLLERS: QUICK-MATE, QUICK-BREAK TOGGLE ACTION WITH RED PILOT LIGHT AND HANDLE GUARD/LOCK OFF.
3. MAGNETIC MOTOR CONTROLLERS: PROVIDE FULL-VOLTAGE, NON-REVERSING, ACROSS-THE-LINE, MAGNETIC CONTROLLER, EXCEPT WHERE ANOTHER TYPE IS INDICATED. CONTROLLERS TO BE EQUIPPED WITH 2 N.O. AND 2 N.C. AUXILIARY CONTACTS, HAND-OFF-AUTO SELECTOR SWITCH, RED AND GREEN PILOT LIGHTS.
    a. CONTROL CIRCUIT: MAXIMUM 120V CONTROL POWER. PROVIDE TRANSFORMER CONSISTENT WITH CONTROL CONTACTOR VOLTAGE AND SIZE REQUIREMENTS. PROVIDE CONTROL POWER TRANSFORMER WITH ADEQUATE CAPACITY TO OPERATE CONNECTED PILOT, INDICATING AND CONTROL DEVICES, PLUS 100 PERCENT SPARE CAPACITY.
    b. COMBINATION CONTROLLER" SWITCH TYPE ; FUSED OR NON-FUSED AS INDICATED; QUICK-MAKE, QUICK-BREAK SWITCH FACTORY ASSEMBLED WITH CONTROLLER AND ARRANGED TO DISCONNECT IT. FOR FUSED SWITCHES, PROVIDE REJECTION-TYPE FUSE CLIPS AND FUSES RATED AS INDICTED. INTERLOCK SWITCH WITH UNIT COVER OR DOOR.

N. LIGHTING

1. COORDINATE RECESSED LIGHTING FIXTURES WITH MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN. LAYOUT ON PLANS IS APPROXIMATE. ADJUST LIGHTING FIXTURES IN FIELD PER ARCHITECT.
2. PROVIDE FINISHING FRAMES FOR ALL RECESSED LIGHTING FIXTURES, TYPE TO BE COMPATIBLE WITH CEILING. COORDINATE ALL FIXTURE TYPES WITH CEILING SYSTEM BEFORE ORDERING FIXTURES. PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION.
3. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH LAMPS. SEE PLANS FOR SPECIFIC REQUIREMENTS.
4. FIXTURES IN ANY ROOM OR COMMON AREA SHALL HAVE ALL LAMPS ORIENTED IN THE SAME DIRECTION.
5. COORDINATE DIMMER CONTROLS WITH ELECTRONIC OR MAGNETIC LOW VOLTAGE LIGHTING AND LED DRIVERS PER MANUFACTURER OF LIGHTING FIXTURES AND LAMPS.
7. LAMP COLOR SHALL BE 3500K OR AS SELECTED BY THE ARCHITECT.
8. SUPPORT LIGHT FIXTURES FROM STRUCTURE WITH MINIMUM #12 AWG.

O. FIRE ALARM SYSTEM

1. ALL FIRE ALARM SYSTEM FINAL CONNECTIONS MUST BE PERFORMED BY THE FIRE ALARM SYSTEM CONTRACTOR. PROVIDE A SET OF DRAWINGS TO THE CONTRACTOR, TO OBTAIN A PRICE FOR THE REQUIRED WORK.
2. SUBMIT BIDS THAT INCLUDE ALL FIRE ALARM WORK INCLUDING EXTENDER PANELS/POWER SUPPLIES, CIRCUITS AND FLASHING LIGHT SYNCHRONIZATION MODULES (WHERE SYNCHRONIZATION IS REQUIRED BY NFPA72 SECTION 4-4), AS REQUIRED TO ACCOMMODATE THE FIRE ALARM DEVICES BEING INSTALLED UNDER THIS PROJECT.
3. INCLUDE IN THE BID PRICE, THE COST TO PREPARE AND SUBMIT PLANS SEALED BY A REGISTERED PROFESSIONAL ENGINEER TO THE FIRE MARSHAL, SHOWING ALL FIRE ALARM DEVICES, CUT SHEETS, POWER SUPPLY AND BATTERY CALCULATIONS AND OTHER INFORMATION AS REQUIRED FOR FIRE MARSHALS REVIEW AND AS REQUIRED TO OBTAIN NECESSARY PERMITS AND INSPECTIONS. ARCHITECT WILL PROVIDE UP TO FOUR ADDITIONAL SETS OF THE CONTRACT DOCUMENTS ONLY. ALL OTHER INFORMATION REQUIRED BY THE LOCAL JURISDICTION IS THE CONTRACTOR'S RESPONSIBILITY.
4. SUBMIT FINAL, APPROVED FIRE ALARM SHOP DRAWINGS TO THE OWNER FOR RECORD PURPOSES ONLY INDICATING ALL WORK TO THE FIRE ALARM SYSTEM PERFORMED UNDER THIS CONTRACTOR. INCLUDE TABULATIONS OF FIRE ALARM DEVICE LOADS AND THE CAPACITY REMAINING IN THE CONTROL PANEL, ANNUNCIATOR PANEL AND BATTERIES FOLLOWING THE COMPLETION OF THIS CONTRACT.
5. INSTALL ALL FIRE ALARM CONDUCTORS IN RED ELECTRICAL METALLIC TUBING (OR RED TYPE MC FIRE ALARM CABLE IF ACCEPTABLE TO THE LOCAL JURISDICTION AND BUILDING ENGINEER).
6. PROVIDE ALL VISUAL ALARMS AND COMBINATION AUDIBLE/VISUAL ALARMS IN ACCORDANCE WITH NFPA 72 GUIDELINES.

P. RECORD DRAWINGS

1. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF WORK.

ABBREVIATIONS

A	AMPS	LTG	LIGHTING
AIC	AMPS INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAGE	(N)	NEW
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CB	CIRCUIT BREAKERS	NFSS	NON-FUSED SAFETY SWITCH
CLG	CEILING	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
(E)	EXISTING TO REMAIN	PB	PULL BOX
EC	EMPTY CONDUIT	(ER)	NEW LOCATION OF RELOCATED ITEM
FACP	FIRE ALARM CONTROL PANEL	(R)	REMOVE FOR RELOCATION
FLA	FULL LOAD AMPS	T	TRANSFORMER
FSS	FUSED SAFETY SWITCH	TYP	TYPICAL
G	GROUND	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
HOA	HAND OFF AUTOMATIC	W	WATTS
HP	HORSEPOWER	WP	WEATHERPROOF
KVA	KILOVOLT AMPERE	(X)	REMOVE EXISTING EQUIPMENT
KW	KILOWATTS		

PLAN SYMBOLS

- 1 — PLAN REFERENCE NOTE SYMBOL
- A — LIGHTING FIXTURE DESIGNATION
- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NEW WORK

LIGHTING

- 2'x2' LED FIXTURE
- 2'x4' LED FIXTURE
- 1'x4' LED FIXTURE
- WALL SCONCE
- DOWNLIGHT

EMERGENCY LIGHTING

- 2'x2' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
- 2'x4' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
- 1'x4' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
- DOWNLIGHT PROVIDED WITH EMERGENCY BATTERY BACK-UP
- EMERGENCY BATTERY WALL PACK
- EXIT LIGHT - SINGLE FACE WITH BATTERY PACK ARROWS INDICATED DIRECTION
- EXIT LIGHT - DOUBLE FACE WITH BATTERY PACK ARROWS INDICATED DIRECTION

SWITCHING

- S — SINGLE POLE SWITCH +48" A.F.F.
- S_3 — THREE-WAY SWITCH +48" A.F.F.
- S_M — MOTOR RATED TOGGLE SWITCH WITH THERMAL ELEMENT
- OS — WALL SWITCH TYPE OCCUPANCY SENSOR +48" A.F.F.
- OS_V — WALL SWITCH TYPE VACANCY SENSOR +48" A.F.F.
- OS — CEILING MOUNTED OCCUPANCY SENSOR WITH POWER/RELAY PACK.
- S_D — DIMMER SWITCH +48" A.F.F. (LOAD COMPATIBLE)

POWER

- IG — DUPLEX RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F. IG = ISOLATED GROUNDING CONFIGURATION
- DUPLEX RECEPTACLE WITH BUILT-IN GROUND FAULT PROTECTION 120V, 20A +42" A.F.F. (UON)
- WP — DUPLEX RECEPTACLE WEATHERPROOF WITH BUILT-IN GROUND FAULT PROTECTION 120V, 20A +42" A.F.F. (UON)
- U — DUPLEX RECEPTACLE WITH USB - WALL MOUNTED 120V, 20A +18" A.F.F.
- TR — TAMPER RESISTANT DUPLEX RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F.
- IG — QUAD RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F. IG = ISOLATED GROUNDING CONFIGURATION
- SPECIAL CONFIGURATION OR VOLTAGE RECEPTACLE
- DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED 120V, 20A.
- J — JUNCTION BOX - SIZE AS REQUIRED
- M — MOTOR
- DISCONNECT SWITCH, FUSED SIZE AS NOTED
- COMBINATION DISCONNECT SWITCH/MOTOR STARTER, NEMA SIZE 1, 3ø, (UON)
- PANELBOARD
- GROUND
- LP-10 — HOMERUN TO PANELBOARD. NUMERALS AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUITS. TICK MARKS IN HOMERUN OR BRANCH CIRCUITRY INDICATE THE QUANTITY (WHERE MORE THAN TWO) OF CURRENT CARRYING CONDUCTORS. SEE PANELBOARD SCHEDULE OR DRAWINGS FOR WIRE SIZES. ALL SIZED PER NEC.

COMMUNICATIONS

- TV IG — POWER, CATV & TELE/DATA OUTLET PROVIDE BACKBOX AND EC WITH PULL CORD TO ABOVE FINISHED CEILING. MOUNTING HEIGHT TO BE DETERMINED BY AVL ENGINEER. IG = ISOLATE GROUNDING CONFIGURATION FOR POWER RECEPTACLE
- TELEPHONE/DATA OUTLET, +18" A.F.F. PROVIDE BACKBOX AND 1"EC WITH PULL CORD TO ABOVE FINISHED CEILING.
- TELEPHONE/DATA OUTLET. FLUSH FLOOR MOUNTED. PROVIDE BACKBOX AND 1"EC WITH PULL CORD TO ABOVE FINISHED CEILING.

FIRE ALARM

- F — FIRE ALARM PULL STATION - +48" A.F.F. (UON)
- V 15CD — ADA VISUAL FIRE ALARM ANNUNCIATOR. VISUAL CANDELA RATING SHALL BE 15CD UNLESS OTHERWISE NOTED. CEILING MOUNTED
- AV 15CD — ADA AUDIO-VISUAL FIRE ALARM ANNUNCIATOR. VISUAL CANDELA RATING SHALL BE 15CD UNLESS OTHERWISE NOTED. CEILING MOUNTED
- S — SMOKE DETECTOR
- FS — SPRINKLER SYSTEM WATER FLOW SWITCH
- TS — SPRINKLER SYSTEM TAMPER SWITCH

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

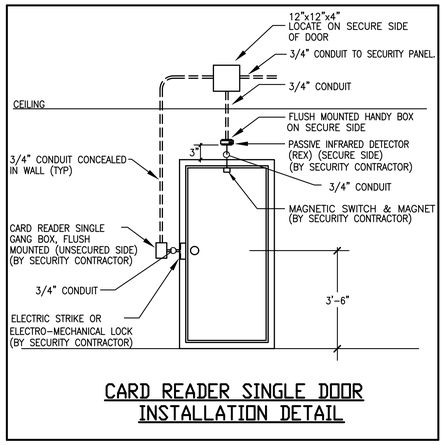
SPECIFICATIONS, SYMBOLS, AND ABBREVIATIONS

E001

OF SHEETS

216118

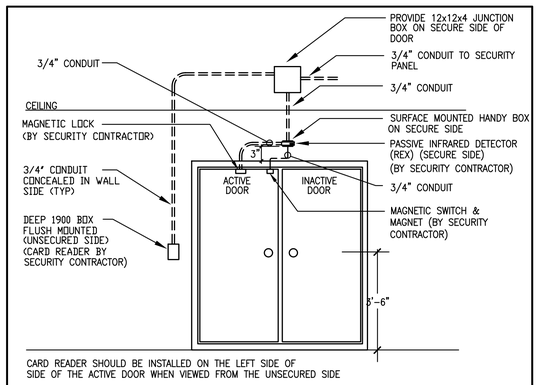
5 4 3



CARD READER SINGLE DOOR INSTALLATION DETAIL

CARD ACCESS SYSTEM NOTES:

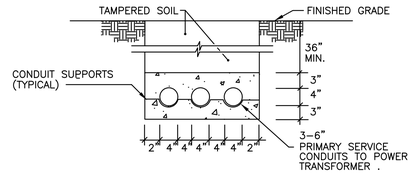
1. CONDUIT BOXES AND CABLE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DOOR STRIKES (OR ELECTRO-MECHANICAL LOCK) FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
2. ALL ACCESS CONTROL EQUIPMENT IS FURNISHED AND INSTALLED BY SECURITY CONTRACTOR.
3. PROVIDE ALL WORK INDICATED ON THIS DETAIL AT ALL SINGLE DOORS INDICATED ON PLANS WITH CARD READER SYMBOL. CR



CARD READER DOUBLE DOOR INSTALLATION DETAIL

CARD ACCESS SYSTEM NOTES:

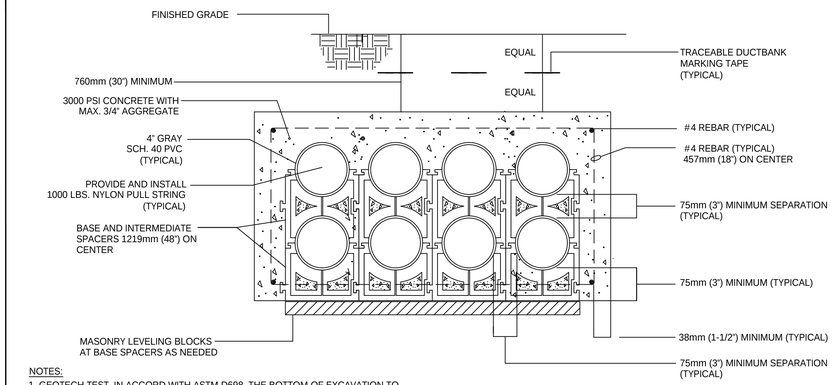
1. CONDUIT BOXES AND CABLE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DOOR STRIKES (OR ELECTRO-MECHANICAL LOCK) FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
2. ALL ACCESS CONTROL EQUIPMENT IS FURNISHED AND INSTALLED BY SECURITY CONTRACTOR.
3. PROVIDE ALL WORK INDICATED ON THIS DETAIL AT ALL DOUBLE DOORS INDICATED ON PLANS WITH CARD READER SYMBOL. CR



PRIMARY ELECTRICAL SERVICE DUCTBANK SECTION 'A-A'

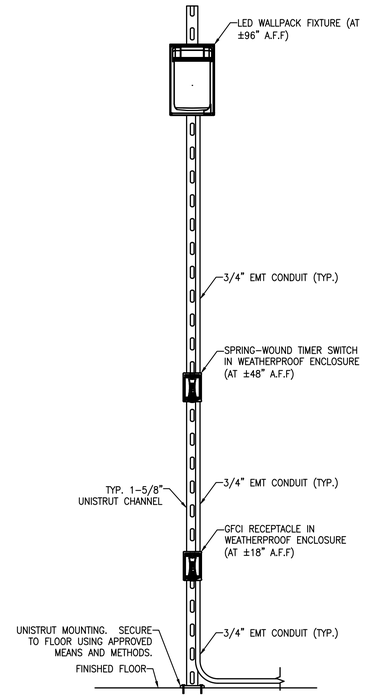
NO SCALE

NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



NOTES:

1. GEOTECH TEST, IN ACCORD WITH ASTM D698, THE BOTTOM OF EXCAVATION TO ACHIEVE 85% TO 95% OF MAXIMUM DRY DENSITY, PRIOR TO CONCRETE PLACEMENT.
2. CONCRETE SHALL BE MECHANICALLY VIBRATED TO ELIMINATE VOIDS.



DETAIL - STANDALONE FIXTURE MOUNTING

SCALE: N.T.S.

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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
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☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	01/31/2024
☐ PERMIT SET	

REVISIONS/ADDENDUMS

DETAILS

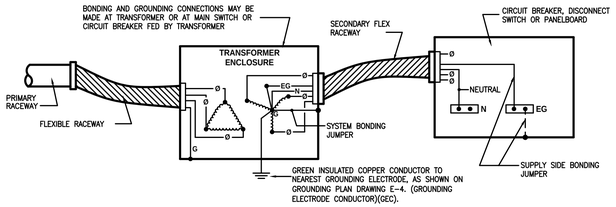
E002

OF SHEETS

216118

5 4 3 2 1

D C B A

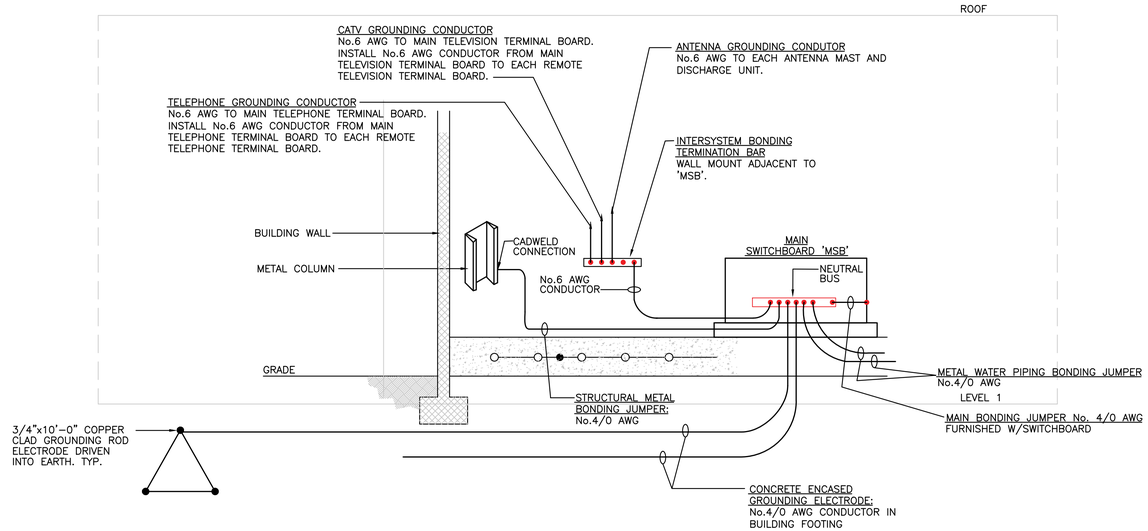


05 — TRANSFORMER GROUNDING DETAIL

Scale: Not To Scale

TRANSFORMER SCHEDULE

TRANSFORMER SIZE	PRIMARY						SECONDARY						
	PHASE	VOLTS	CIRCUIT BREAKER	FEEDER	GROUND	CONDUIT	VOLTS	CIRCUIT BREAKER	FEEDER	SYSTEM/ SUPPLY SIDE BNDG JUMPER	CONDUIT	GROUNDING ELECTRODE CONDUCTOR	MOUNTED
15 KVA DRY-TYPE	3	480	30A	3#10	#10	.75" FLEX C	120/208	50A	4#6	#8	1.25" FLEX C	#8 IN 0.75"	WALL
30 KVA DRY-TYPE	3	480	50A	3#8	#10	3/4" FLEX C	120/208	100A	4#2	#6	1.5" FLEX C	#6 IN 0.75"	FLOOR
45 KVA DRY-TYPE	3	480	70A	3#4	#8	1.25" FLEX C	120/208	125A	4#1/0	#6	2" FLEX C	#6 IN 0.75"	FLOOR
75 KVA DRY-TYPE	3	480	125A	3#1	#6	1.5" FLEX C	120/208	250A	250 kcmil	#2	3" FLEX C	#2 IN 0.75"	FLOOR
112.5 KVA DRY-TYPE	3	480	200A	3#3/0	#6	2.5" FLEX C	120/208	400A	4-500 kcmil	#1/0	4" FLEX C	#1/0 IN 0.75"	FLOOR
150 KVA DRY-TYPE	3	480	225A	3#4/0	#4	2.5" FLEX C	120/208	500A	2 SETS OF 250 kcmil	#3/0	(2)3" FLEX C	#3/0 IN 1"	FLOOR

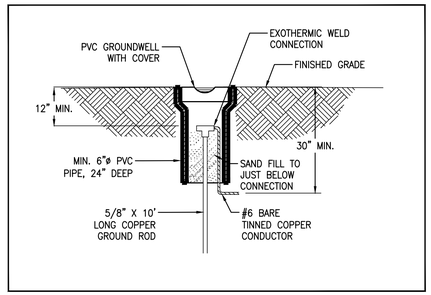


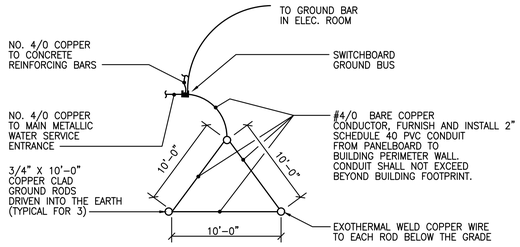
ELECTRICAL SERVICE GROUNDING SYSTEM DETAIL

SCALE: NONE

NOTES:

1. ALL CONDUCTORS AND JUMPERS SHALL BE COPPER.
2. CONDUCTORS AND JUMPERS ROUTED THROUGH FLOOR SLABS AND IN EARTH SHALL BE INSTALLED IN RIGID PVC CONDUIT.
3. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE ACCESSIBLE AND LOCATED ADJACENT TO VALVES, BACKFLOW PREVENTER AND GAS METER AS SHOWN.
4. CONDUCTOR OR JUMPER INSTALLED IN METALLIC RACEWAY SHALL BE BONDED TO RACEWAY AT EACH END IN ACCORDANCE WITH N.E.C

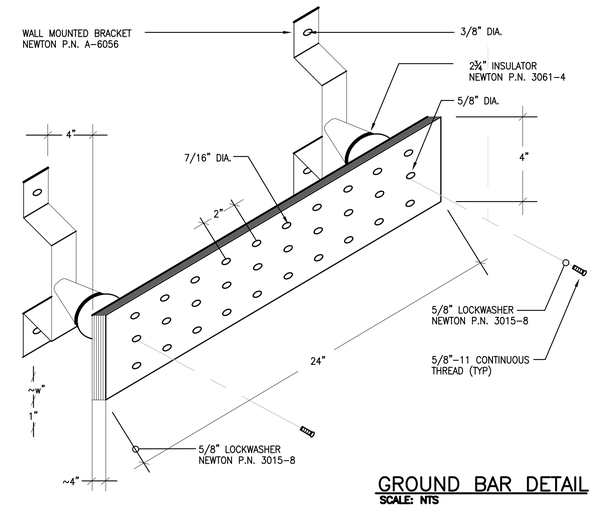




NOTE:
FURNISH AND INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE 25 OHMS OR LESS RESISTANCE. RODS SHALL BE LOCATED IN UNPAVED AREAS.

MAIN SERVICE GROUND DETAIL

NO SCALE



GROUND BAR DETAIL

SCALE: NTS

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REVISIONS/ADDENDUMS

GROUNDING DETAILS

E003

OF SHEETS

216118

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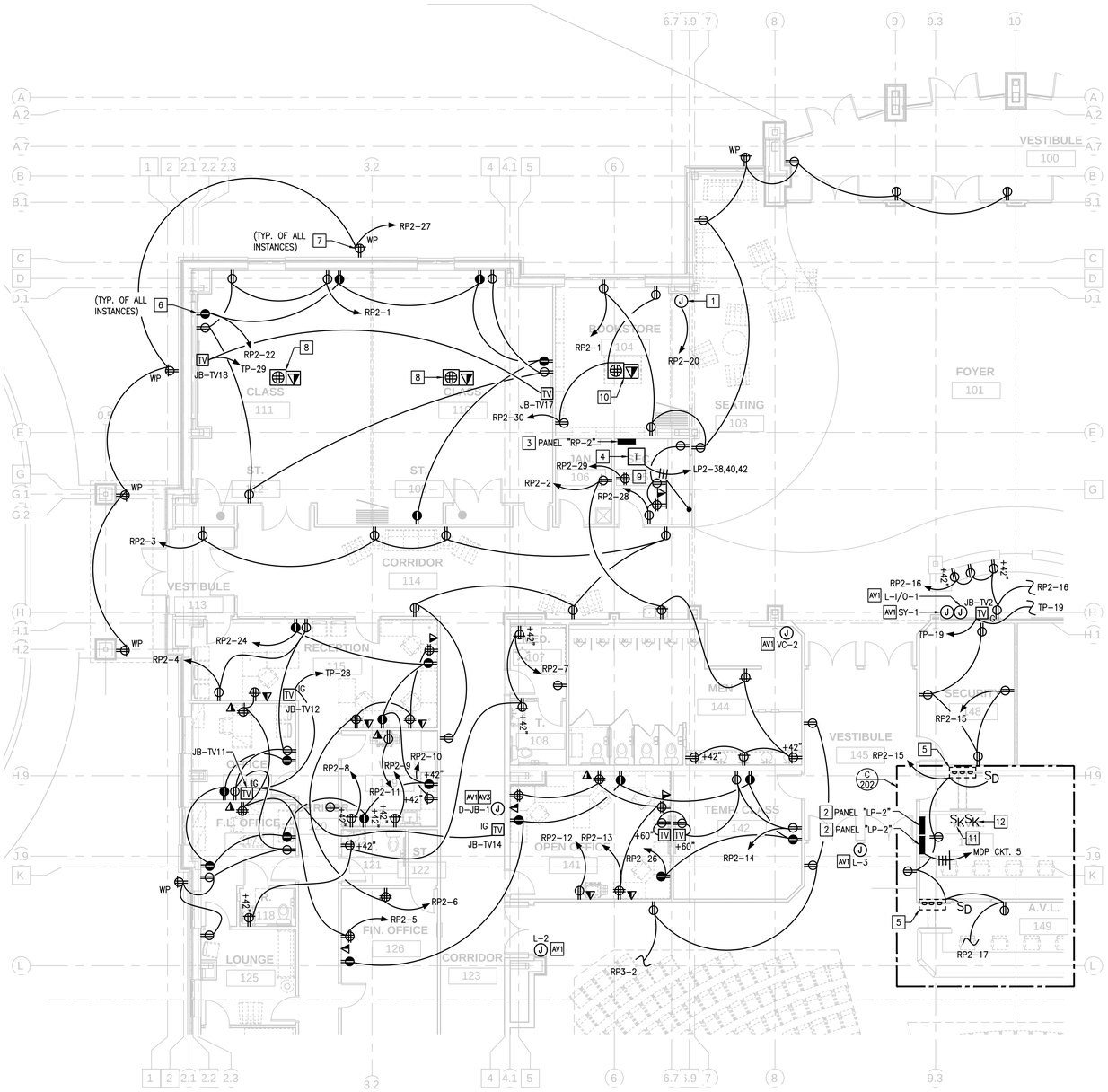
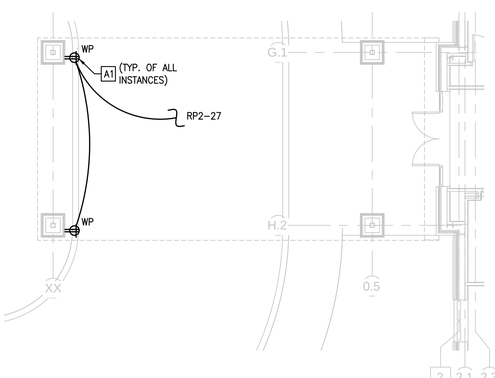


PARTIAL FLOOR PLAN – SECTION 'A' POWER
SCALE: 1/8" = 1'-0"

ADD ALTERNATE #1 NOTES

NOTE: ALL ADD ALTERNATE WORK SHALL BE PROVIDED AS A SEPARATE LINE ITEM FOR BIDDING PURPOSES.

A1 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS. EXTEND CIRCUITRY TO NEARBY OUTDOOR GFCI CIRCUIT, DESIGNATED AS SHOWN.



ADD ALTERNATE #1 – SECTION 'A' POWER
SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: REFER TO AVL DRAWING PACK SHEET AV-0.1 FOR A "DIVISION OF LABOR" MATRIX, DETAILING THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AV CONTRCTOR, AND OWNER AVL SCOPE OF WORK RESPONSIBILITIES. IT IS IMPERATIVE THAT THE ELECTRICAL CONTRACTOR REFER TO BOTH THE ELECTRICAL DRAWING SET AND THE AVL DRAWING SET TO ENSURE AN ACCURATE UNDERSTANDING OF THE ELECTRICAL CONTRACTOR SCOPE OF WORK.

POWER PLAN NOTES

1 PROVIDE JUNCTION BOX FOR OVERHEAD ROLLUP DOOR. COORDINATE FINAL INSTALLATION LOCATION WITH ROLLUP DOOR VENDOR AND ARCHITECT.

2 PANEL "LP-2". 277/480V, 250A MCB, 65KAIC, 84-CCT, TWO-SECTION PANEL, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.

3 PANEL "RP-2". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.

4 CEILING-SUSPENDED TRANSFORMER "T-RP2". 30KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.

5 PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.

6 AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.

7 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.

8 PROVIDE NEW 4-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEGRAND TYPE RFB4, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE TWO (2) DUPLEX RECEPTACLES, ONE (1) HDMI CONNECTOR, AND (1) RJ45 CONNECTOR. ALL EMBEDDED CONDUIT SHALL BE RNC. CONTRACTOR SHALL INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO TV BACKBOX IN ROOM. INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO STUB UP ABOVE NEAREST WALL FOR THE PURPOSE OF RUNNING DATA CABLING.

9 PROVIDE QUAD RECEPTACLE MOUNTED INSIDE SECURITY PANEL. SECURITY PANEL PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING LOCATION WITH SECURITY CONTRACTOR.

10 PROVIDE NEW 4-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEGRAND TYPE RFB4, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE TWO (2) DUPLEX RECEPTACLES, AND (2) RJ45 CONNECTORS. ALL EMBEDDED CONDUIT SHALL BE RNC. INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO STUB UP ABOVE NEAREST WALL FOR THE PURPOSE OF RUNNING DATA CABLING. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.

11 PROVIDE LYNTEC SS-2DPL FOR RELAY PANEL #1 KEYED POWER OVERRIDE SWITCH. PROVIDE CAT6 CABLE IN 1" C. FROM SWITCH TO RELAY PANEL #1. MOUNT INSIDE HINGED ENCLOSURE, LABELED LINE 1: "RELAY PANEL #1", LINE 2: "AUDITORIUM AUDIO".

12 PROVIDE LYNTEC SS-2DPL FOR RELAY PANEL #2 KEYED POWER OVERRIDE SWITCH. PROVIDE CAT6 CABLE IN 1" C. FROM SWITCH TO RELAY PANEL #2. MOUNT INSIDE HINGED ENCLOSURE, LABELED LINE 1: "RELAY PANEL #2", LINE 2: "AUDITORIUM LIGHTING".

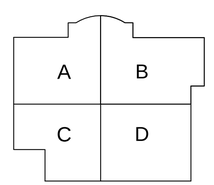
AVL PLAN NOTES

AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

AV3 PROVIDE (1) 2" CHASE NIPPLE IN BACK BOX.

AV4 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'A'
POWER

E101

OF SHEETS

216118

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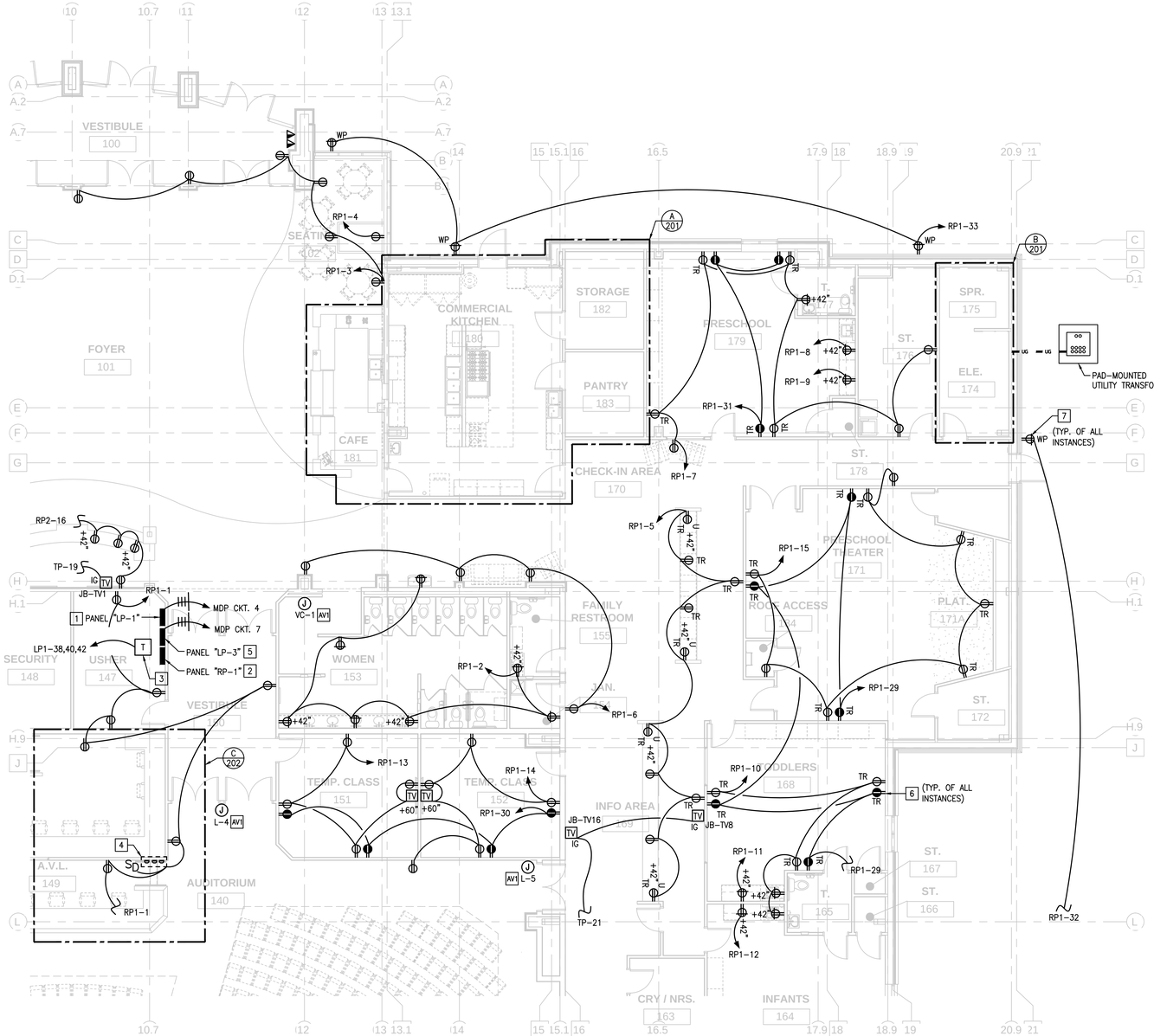

PARTIAL FLOOR PLAN – SECTION 'B' POWER

SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

POWER PLAN NOTES

1. PANEL "LP-1". 277/480V, 250A MLO, 65KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
2. PANEL "RP-1". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
3. CEILING-SUSPENDED TRANSFORMER "T-RP1". 30KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
5. PANEL "LP-3". 277/480V, 250A MLO, 65KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
6. AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
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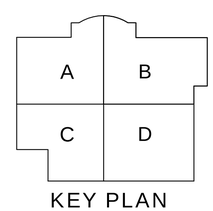
AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.



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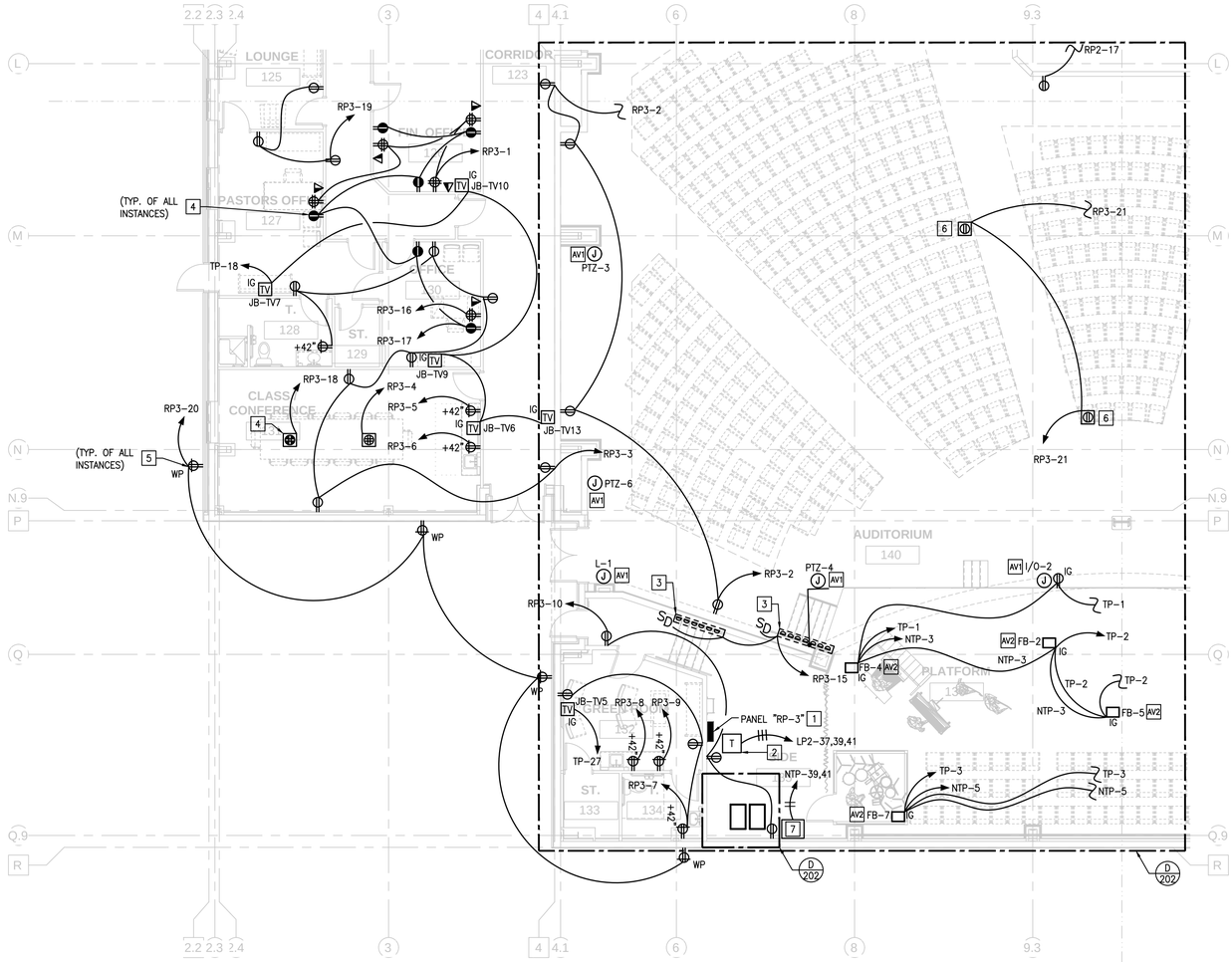
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'B'
POWER

E102

OF SHEETS

216118



PARTIAL FLOOR PLAN – SECTION 'C' POWER

SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

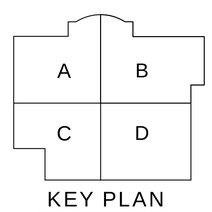
POWER PLAN NOTES

1. PANEL "RP-3". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
2. CEILING-SUSPENDED TRANSFORMER "T-RP3". 30KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
4. AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
5. PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.
6. PROVIDE NEW 1-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEVITON TYPE FBID1, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE ONE (1) DUPLEX RECEPTACLE. ALL EMBEDDED CONDUIT SHALL BE RNC.
7. PROVIDE EMERGENCY LIGHTING INVERTER "EM INV". IOTA TYPE IIS-3750-208IN-120OUT-ST WITH BREAKER PACKAGE 12-1P120-20AMP-ON, OR APPROVED EQUAL.

AVL PLAN NOTES

AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.



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DRAWING	DATE
☐ DD MEETING #1	07/16/2019
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☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

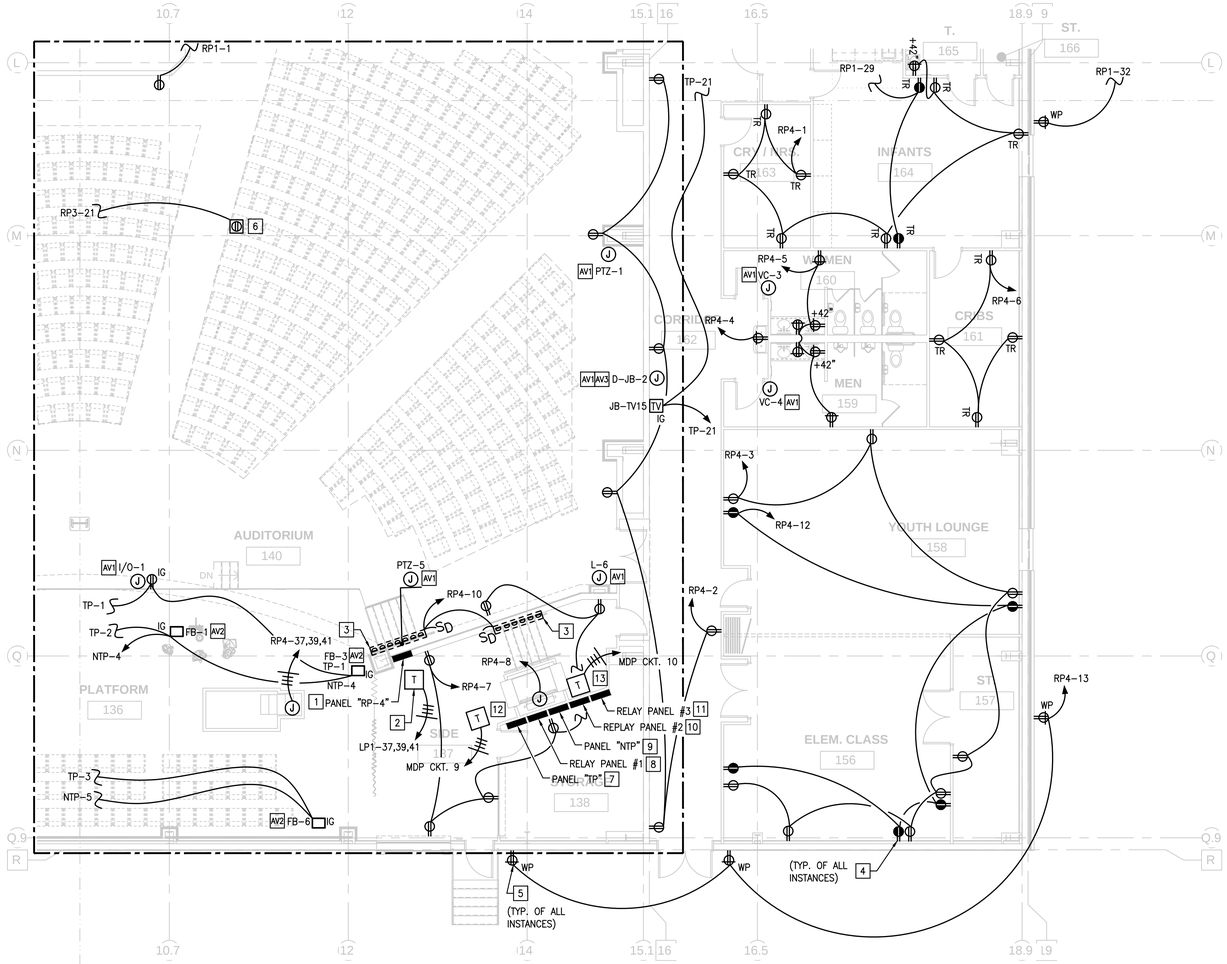
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'C'
POWER

E103

OF SHEETS

216118



PARTIAL FLOOR PLAN – SECTION 'D' POWER

SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

POWER PLAN NOTES

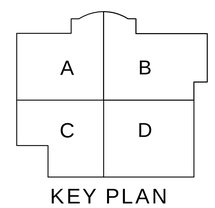
1. PANEL "RP-4". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
2. CEILING-SUSPENDED TRANSFORMER "T-RP4". 30KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
4. AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
5. PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.
6. PROVIDE NEW 1-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEVITON TYPE FBID1, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE ONE (1) DUPLEX RECEPTACLE. ALL EMBEDDED CONDUIT SHALL BE RNC.
7. PANEL "TP". 120/208V, 150A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PROVIDE PANEL WITH GROUND BAR AND ISOLATED GROUND BAR. ISOLATED GROUND SHALL BE CONNECTED PER SHEET AV-0.3 GROUNDING DETAIL. PROVIDE 1" CONDUIT BETWEEN PANEL AND RELAY PANEL #1.
8. PROVIDE RELAY PANEL #1 LYNTEC PDS12, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE CAT-6 CABLE TO LYNTEC OVERRIDE SWITCH IN AVL BOOTH.
9. PANEL "NTP". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PROVIDE 1" CONDUIT BETWEEN PANEL AND RELAY PANEL #2.
10. PROVIDE RELAY PANEL #2 LYNTEC PDS12, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE CAT-6 CABLE TO LYNTEC OVERRIDE SWITCH IN AVL BOOTH.
11. PROVIDE RELAY PANEL #3 LYNTEC PDS12-8, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE ADDITIONAL 1" CONDUIT BETWEEN RELAY #2 AND RELAY #3 FOR FURTHER POWER OVERRIDE COMMUNICATIONS CABLING.
12. CEILING-SUSPENDED TRANSFORMER "T-TP". 45KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN45T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
13. CEILING-SUSPENDED TRANSFORMER "T-NTP". 30KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.

AVL PLAN NOTES

AV1. JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

AV2. JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

AV3. PROVIDE 2" CHASE NIPPLE IN BACK BOX.



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REVISIONS/ADDENDUMS

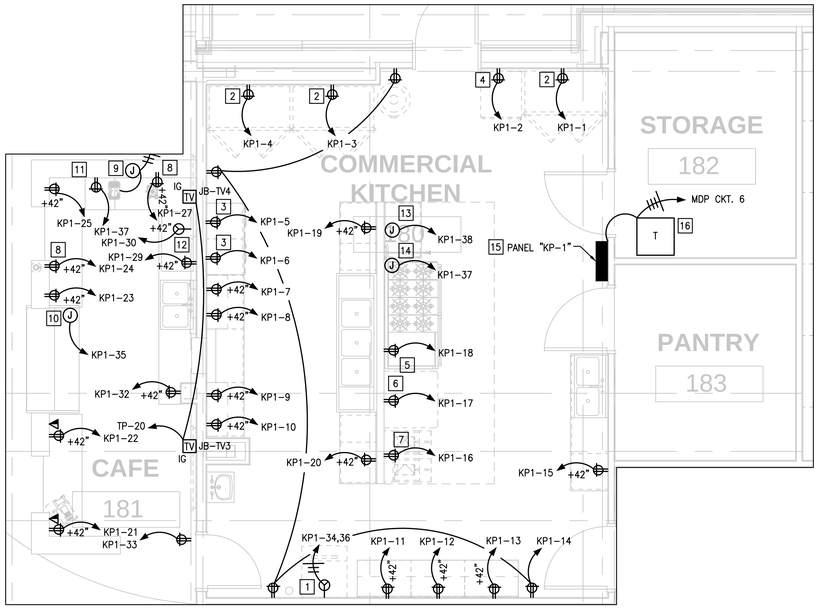
FIRST FLOOR PLAN
SECTION 'D'
POWER

E104

OF SHEETS

216118

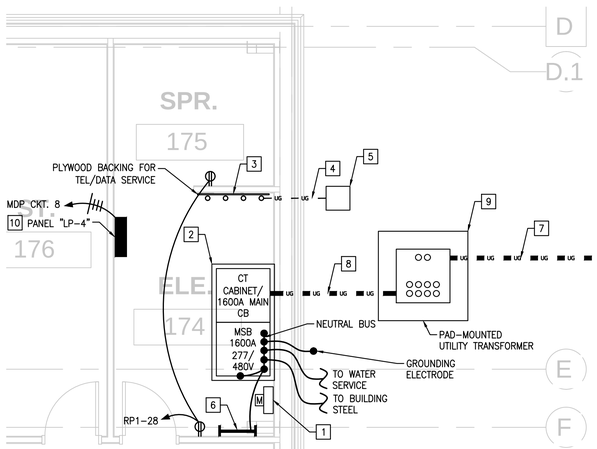
5 4 3 2 1



A PARTIAL FLOOR PLAN – KITCHEN/CAFE POWER
SCALE: 1/4" = 1'-0"

POWER PLAN NOTES

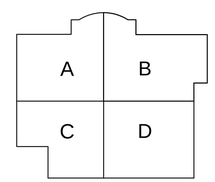
1. PROVIDE DEDICATED DUPLEX RECEPTACLES FOR ICE MACHINE. 208V, 1ϕ, 12.2A, 20A MOCP, WITH NEMA 6-20R RECEPTACLE.
2. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR REFRIGERATOR/FREEZER. 120V, 1ϕ, 5.4A.
3. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. 120V, 1ϕ, 15.4A.
4. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR MOBILE WARMING CABINET. 120V, 1ϕ, 12.5A.
5. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR RANGE AND OVEN. 120V, 1ϕ, 4A.
6. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR DOUBLE DECK CONVECTION OVEN. 120V, 1ϕ, 15.4A.
7. PROVIDE DUPLEX RECEPTACLE FOR FRYER. 120V, 1ϕ, 1.5A.
8. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR BLENDER. 120V, 1ϕ, 15A.
9. PROVIDE JUNCTION BOX FOR COFFEE MAKER. 208V, 1ϕ, 3W + G, 3.55KW, IN A HARDWIRED CONFIGURATION. CONTRACTOR SHALL PROVIDE NECESSARY JUNCTION BOX IN ORDER TO ROUTE CABLING TO FINAL LOCATION. CONTRACTOR SHALL PERMANENTLY LAND CABLES AT EQUIPMENT ONCE INSTALLED. PROVIDE PVC JACKETED MC STYLE CABLE, OR OTHER APPROVED FOR INSTALLATION BY AHJ.
10. PROVIDE JUNCTION BOX RECEPTACLE FOR REFRIGERATED DISPLAY CASE. 120V, 1ϕ, IN A HARDWIRES CONFIGURATION. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS WITH GC PRIOR TO PURCHASE OF EQUIPMENT.
11. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR UNDERCOUNTER ICE MACHINE. 120V, 1ϕ, 10A.
12. PROVIDE DEDICATED NEMA 6-20R RECEPTACLE FOR ESPRESSO MACHINE. 208V, 1ϕ, 3.4KW, 17A.
13. PROVIDE POWER TO EXHAUST HOOD CONTROL PANEL. COORDINATE EXACT EQUIPMENT LOCATION WITH HOOD INSTALLER. ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL CONDUIT AND CABLING TO EXTEND CIRCUIT FROM CONTROL PANEL TO GAS VALVE POWER CONTACTORS.
14. POWER TO INTEGRAL HOOD LIGHT FIXTURES. CONTRACTOR SHALL PROVIDE NECESSARY FIELD WIRING FROM HOOD LIGHT SWITCH (PROVIDED BY VENDOR) TO EACH FIXTURE JUNCTION BOX. WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC IN HOOD SUBMITTAL.
15. PANEL "KP-1". 120/208V, 150A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL.
16. CEILING-SUSPENDED TRANSFORMER "T-KP1". 45KVA, 480:120/208V, 3ϕ, 4W, COPPER CORE. SQUARE D TYPE EXN45T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.



B PARTIAL FLOOR PLAN – ELECTRICAL/SPRINKLER POWER
SCALE: 1/4" = 1'-0"

POWER PLAN NOTES

1. UTILITY METER. PROVIDE 1-1/2" EMT CONDUIT FROM METER CABINET TO SWITCHBOARD C/T CABINET.
2. C/T CABINET AND MAIN SWITCHBOARD "MSB". 1600A, 277/480V, 3ϕ, 4W, 65,000 AIC. SQUARE D TYPE QED-2 STYLE SWITCHBOARD. SEE SWITCHBOARD ELEVATION FOR FURTHER DETAILS. SWITCHBOARD SHALL BE MOUNTED ON A 4" CONCRETE HOUSEKEEPING PAD, EXTENDING 4" PAST EQUIPMENT WITH A 1/2" CHAMFERED EDGE.
3. PROVIDE (1) 4'X8' 1-HR FIRE RATED OSB COMMUNICATIONS BACKBOARD. COORDINATE EXACT LOCATION IN FIELD WITH LOW-VOLTAGE CONTRACTOR.
4. PROVIDE A COMMUNICATIONS DUCTBANK OF (4) 3" SCHEDULE 40 PVC CONDUIT FROM COMMUNICATIONS HANDHOLE, STUBBED UP INSIDE THE BUILDING AT THE LOCATION OF THE COMMUNICATIONS BACKBOARD. PROVIDE PULL STRINGS IN EACH CONDUIT.
5. PROVIDE A COMMUNICATIONS HANDHOLE FOR THE PURPOSE OF ROUTING TELE/DATA CABLING INTO BUILDING. HANDHOLE SHALL BE 18" X 18" X 12" MIN. CONCRETE HANDHOLE, VISIBLY MARKED AS TELE/DATA ON THE COVER.
6. PROVIDE MAIN GROUND BAR, SIZED AS SHOWN ON GROUND BAR DETAIL ON SHEET E003. SEE ELECTRICAL SERVICE GROUNDING SYSTEM DETAIL ON SHEET E003 FOR GROUND CONDUCTOR SIZING AND DETAILS.
7. UTILITY PRIMARY DUCTBANK. SEE PRIMARY DUCTBANK DETAIL ON SHEET E003..
8. UTILITY SECONDARY DUCTBANK. SEE SECONDARY DUCTBANK DETAIL ON SHEET E003.
9. UTILITY PAD-MOUNTED TRANSFORMER.
10. PANEL "LP-4". 277/480V, 250A MLO, 65KAIC, 18-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF418L1C, OR APPROVED EQUAL. FOR OUTDOOR LIGHTING PURPOSES.



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REVISIONS/ADDENDUMS

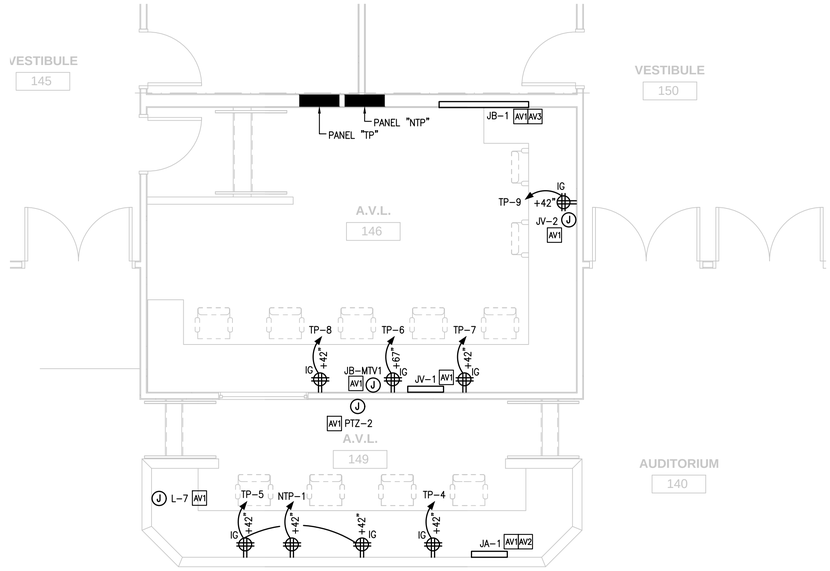
FIRST FLOOR PLAN
ENLARGED PLANS
POWER

E201

OF SHEETS

216118

5 4 3 2 1



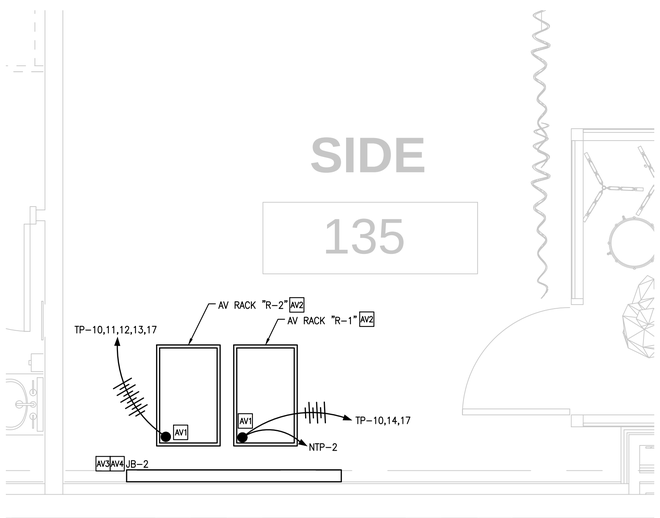
C PARTIAL FLOOR PLAN – AVL
SCALE: 1/4" = 1'-0"

AVL PLAN NOTES

AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD.

AV2 PROVIDE (1) 2" CHASE NIPPLE IN BACK BOX.

AV3 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.



D PARTIAL FLOOR PLAN – AV RACKS
SCALE: 1/2" = 1'-0"

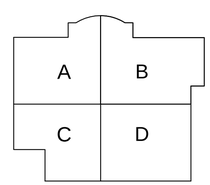
AVL PLAN NOTES

AV1 RACK POWER RECEPTACLES ARE INTERNAL TO THE RACK, AND PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL LAND CONDUCTORS AT PROPER TERMINATION POINT.

AV2 EQUIPMENT RACKS PROVIDED AND INSTALLED BY OTHERS.

AV3 WIRE TROUGH SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD.

AV4 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.



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FIRST FLOOR PLAN
ENLARGED PLANS
POWER

E202

OF SHEETS

216118

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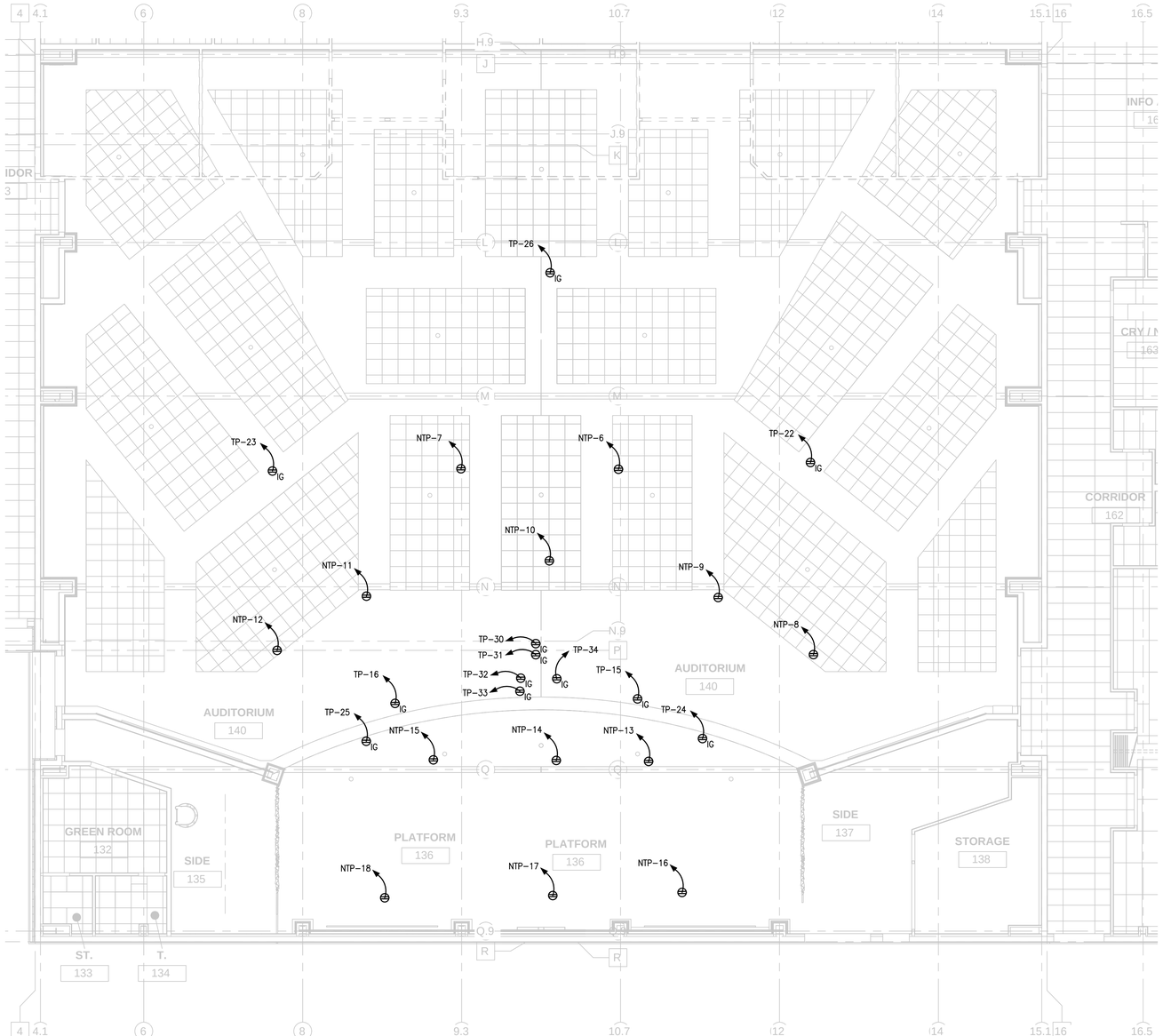
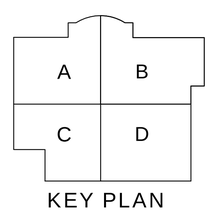


E PARTIAL FLOOR PLAN – AVL CEILING EQUIPMENT 1
SCALE: 1/8" = 1'-0"

POWER PLAN NOTES

1 EQUIPMENT SHOWN ON THIS PLAN ARE TO PROVIDE POWER TO CEILING-MOUNTED OR CEILING-SUSPENDED EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION LOCATION AND REQUIREMENTS WITH AVL CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO START OF INSTALLATION.



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
ENLARGED PLANS
POWER

E203

OF SHEETS

216118

5 4 3 2 1

D C B A

LIGHTING CONTROLS OPERATIONS

ROOM NUMBER	SPACE DESIGNATION	SPACE TYPE	LPD ALLOWANCE (WATTS/SQ. FT.)	SEQUENCE OF OPERATIONS	DESIGN ILLUMINANCE LEVEL (AVG. FC)	N1 - LINE-VOLTAGE SWITCH	N2 - ON/OFF/RAISE/ LOWER KEYPAD	N3 - SCENE SELECT KEYPAD	N4 - OCCUPANCY SENSOR (AUTO PART ON)	N5 - VACANCY SENSOR (AUTO OFF)	N6 - TIME CLOCK	N7 - DAYLIGHTING HARVESTING	NOTES
100	VESTIBULE	LOBBY	0.84					X	X	X	X	X	
101	FOYER	LOBBY	0.84					X	X	X	X	X	THESE AREAS SHALL BE CONTROLLED
102	SEATING	LOBBY	0.84					X	X	X	X	X	SIMULTANEOUSLY BY SAME DEVICES
103	SEATING	LOBBY	0.84					X	X	X	X	X	
104	BOOKSTORE	LIBRARY	0.96				X		X	X		X	
105	SECURITY	ENCLOSED OFFICE	0.74				X		X	X			
106	JANITOR	ELEC/MECH RM	0.43			X							
107	MEDICAL	EXAM/TREATMENT	1.4				X		X	X			EACH FIXTURE TYPE SHALL HAVE INDEPENDENT MANUAL CONTROLS, BUT SHARED OCCUPANCY VACANY CONTROLS
108	TOILET	RESTROOM	0.63				X		X	X			
109	STORAGE CLOSET	STORAGE ROOM	0.38			X							
110	CLASSROOM	CLASSROOM	0.71				X		X	X	X	X	
111	CLASSROOM	CLASSROOM	0.71				X		X	X	X	X	
112	STORAGE CLOSET	STORAGE ROOM	0.38			X							
113	VESTIBULE	LOBBY	0.84				X		X	X	X	X	
114	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
115	RECEPTION	ENCLOSED OFFICE	0.74				X		X	X	X		
116	OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
117	F.L. OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
118	RESTROOM	RESTROOM	0.63				X		X	X	X		
119	WORKROOM	COPY/PRINT	0.31				X		X	X	X		
120	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
121	TOILET	RESTROOM	0.63				X		X	X			
122	STORAGE CLOSET	STORAGE ROOM	0.38			X							
123	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
125	LOUNGE	LOUNGE	0.59				X		X	X	X	X	
126	FINANCIAL OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X		
127	PASTORS OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
128	TOILET	RESTROOM	0.63				X		X	X			
129	STORAGE CLOSET	STORAGE ROOM	0.38			X							
130	OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X		
131	CLASS/CONFERENCE	CLASSROOM	0.71					X	X	X	X	X	
132	GREEN ROOM	LOUNGE	0.59				X		X	X	X	X	
133	STORAGE CLOSET	STORAGE ROOM	0.38			X							
134	TOILET	RESTROOM	0.63				X		X	X			
135	SIDE	STORAGE ROOM	0.38				X		X	X			
136	PLATFORM												CONTROLS PART OF AV SCOPE OF WORK
137	SIDE	STORAGE ROOM	0.38				X		X	X			
138	STORAGE CLOSET	STORAGE ROOM	0.38			X							
140	AUDTORIUM												CONTROLS PART OF AV SCOPE OF WORK
141	OPEN OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X		
142	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
144	MEN'S TOILET	RESTROOM	0.63				X		X	X	X		
145	VESTIBULE	CORRIDOR	0.41				X		X	X	X		
146	A.V.L.	COMPUTER ROOM	0.94				X		X	X	X		
147	USHER	LOUNGE	0.59				X		X	X	X		
148	SECURITY	ENCLOSED OFFICE	0.74				X		X	X	X		
149	A.V.L.	COMPUTER ROOM	0.94				X		X	X	X		
150	VESTIBULE	CORRIDOR	0.41				X		X	X	X		
151	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
152	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
153	WOMEN'S TOILET	RESTROOM	0.63				X		X	X	X		
154	JANITOR	ELEC/MECH RM	0.43			X							
155	FAMILY RESTROOM	RESTROOM	0.63				X		X	X			
156	ELEM. CLASS	CLASSROOM	0.71										
157	STORAGE CLOSET	STORAGE ROOM	0.38			X							
158	YOUTH LOUNGE	CLASSROOM	0.71				X		X	X	X	X	
159	MEN'S TOILET	RESTROOM	0.63				X		X	X	X		
160	WOMEN'S TOILET	RESTROOM	0.63				X		X	X	X		
161	CRIBS	GUESTROOM	0.41				X		X	X			
162	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
163	CRY/NURSERY	GUESTROOM	0.41				X		X	X			
164	INFANTS	CLASSROOM	0.71				X		X	X	X		
165	TOILET	RESTROOM	0.63				X		X	X			
166	STORAGE CLOSET	STORAGE ROOM	0.38			X							
167	STORAGE CLOSET	STORAGE ROOM	0.38			X							
168	TODDLERS	CLASSROOM	0.71				X		X	X	X		
169	INFO AREA	CORRIDOR	0.41				X		X	X	X		
170	CHECK-IN AREA	CORRIDOR	0.41				X		X	X	X		
171	PRESCHOOL THEATER	CLASSROOM	0.71					X	X	X	X		
171A	PLATFORM	CLASSROOM	0.71										
172	STORAGE CLOSET	STORAGE ROOM	0.38			X							
173	STORAGE CLOSET	STORAGE ROOM	0.38			X							
174	ELECTRICAL ROOM	ELEC/MECH RM	0.43			X							
175	SPRINKLER ROOM	ELEC/MECH RM	0.43			X							
176	STORAGE CLOSET	STORAGE ROOM	0.38			X							
177	TOILET	RESTROOM	0.63				X		X	X			
178	STORAGE CLOSET	STORAGE ROOM	0.38			X							
179	PRESCHOOL	CLASSROOM	0.71				X		X	X	X	X	
180	COMMERCIAL KITCHEN	FOOD PREP	1.09			X							
181	CAFÉ	FOOD PREP	1.09				X						
182	STORAGE CLOSET	STORAGE ROOM	0.38			X							
183	PANTRY	STORAGE ROOM	0.38				X		X	X			
184	ROOF ACCESS	ELEC/MECH RM	0.43			X							

TABLE NOTES:

N1 MANUAL ON/OFF DEVICE LOCATED WITHIN THE AREA IT CONTROLS.

N2 CONTROLS THAT ALLOW THE LIGHTING LEVEL TO BE ADJUSTED UP AND DOWN.

N3 8-BUTTON CONTROLLER: ON, OFF, RAISE, LOWER, AND FOUR (4) ADDITIONAL SCENE BUTTONS.

N4 AUTO-ON TO 50% OF MAXIMUM LIGHT OUTPUT. MANUAL RAISE/LOWER. MANUAL-OFF AND AUTO-ON.
*Special Exception: Fixtures shall Auto-On to 100% of mximum light output in areas concerning personnel security, such as Entry Ways, Vestibules, Stairwells, and Corridors.

N5 AUTO-OFF AFTER FIFTEEN (15) MINUTES OF VACANCY WITH 5-SECOND FADE. DURING NON-NORMAL HOURS, AUTO-OFF AFTER FIVE (5) MINUTES OF VACANCY USING A 5-SECOND FADE.

N6 AUTO-ON DURING NORMAL HOURS OF OPERATION (7:00AM TO 5:00PM, WEEKDAYS). DURING NON-NORMAL HOURS, LIGHTING IS TURNED OFF AUTOMATICALLY. MAY BE MANUALLY OVERRIDDEN TO ON.

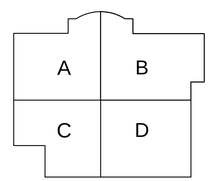
N7 AT THIRTY (30) MINUTES AFTER CIVIL DUSK, INTERIOR LIGHTING SHALL BE REDUCED BY 25% OVER TEN (10) MINUTES. AT THIRTY (30) MINUTES AFTER CIVIL DAWN, INTERIOR LIGHTING SHALL RETURN TO ITS NORMAL LEVELS OVER TEN (10) MINUTES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE #	LAMP	VOLT	INPUT WATTS	MOUNTING	REMARKS
A	RECESSED LED 2X4 VOLUMETRIC TROFFER	LITHONIA LIGHTING	2VTL4-60L-ADP-EZ1-LP835	6301 LUMENS LED 3500K	120/277	47.7	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
AE	RECESSED LED 2X4 VOLUMETRIC TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2VTL4-60L-ADP-EZ1-LP835-EL7L	6301 LUMENS LED 3500K	120/277	47.7	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
B	RECESSED LED 2X2 VOLUMETRIC TROFFER	LITHONIA LIGHTING	2VTL2-40L-ADP-EZ1-LP835	4000 LUMENS LED 3500K	120/277	33.1	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
BE	RECESSED LED 2X2 VOLUMETRIC TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2VTL2-40L-ADP-EZ1-LP835-EL7L	4000 LUMENS LED 3500K	120/277	33.1	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
C	RECESSED LED 2X4 INDIRECT TROFFER	LITHONIA LIGHTING	2BZL4-60L-EZ1-LP835	5904 LUMENS LED 3500K	120/277	58	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
CE	RECESSED LED 2X4 INDIRECT TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2BZL4-60L-EZ1-LP835-EL14L	5904 LUMENS LED 3500K	120/277	58	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
D	LED PENDANT STEM CYLINDER	GOTHAM EVO	EVO4PC-35/20-AR-LSS-MWD-MVOLT-GZ10-JBX-PCAN-S4	1,994 LUMENS LED 3500K	120/277	19.5	STEM	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
E	LED STRIP LIGHT	LITHONIA LIGHTING	CSS-L48-4000LM-MVOLT-35K-80CRI	4000 LUMENS LED 5000K	120/277	35.3	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
EE	LED STRIP LIGHT W/ BATTERY PACK	LITHONIA LIGHTING	CSS-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	4000 LUMENS LED 5000K	120/277	35.3	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
F	8" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN8CYL-35/100-L08-AR-LSS-MVOLT-GZ1-PM-DBL	10000 LUMENS LED 3500K	120/277	118.83	3/8" PENDANT	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
G	6" LED CYLINDER CAN LIGHT	LITHONIA LIGHTING	LDN6-35/50-L06-AR-LSS-TRW-MVOLT-GZ10	6000 LUMENS LED 3500K	120/277	73	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
GE	6" LED CYLINDER CAN LIGHT	LITHONIA LIGHTING	LDN6-35/50-L06-AR-LSS-TRW-MVOLT-GZ10-EL	6000 LUMENS LED 3500K	120/277	73	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
H	LED STEP LIGHT	WAC LIGHTING	WL-LED201-27-WT	LED 2700K	120	3.5	WALL	VERIFY ALL FINISHES WITH ARCHITECT
I	LED SURFACE VOLUMETRIC	LITHONIA LIGHTING	STL4-48L-EZ1-LP835	4850 LUMENS LED 3500K	120/277	45.2	SUSPENDED	VERIFY ALL FINISHES WITH ARCHITECT
IE	LED SURFACE VOLUMETRIC	LITHONIA LIGHTING	STL4-48L-EZ1-LP835-EL7L	4850 LUMENS LED 3500K	120/277	45.2	SUSPENDED	VERIFY ALL FINISHES WITH ARCHITECT
J	LED WALL CYLINDER LIGHT	LITHONIA LIGHTING	OLLWU LED-P1-30K-MVOLT-DDB	947 LUMENS LED 3000K	120/277	14	WALL	VERIFY ALL FINISHES WITH ARCHITECT
K	OUTDOOR LED AREA LUMINAIRE	LITHONIA LIGHTING	DSX1 LED-P1-30K-70CRI-T2M-MVOLT-SPA-PIR-DDBXD	7,203 LUMENS LED 3000K	277	50	POLE	VERIFY ALL FINISHES WITH ARCHITECT
L	OUTDOOR LED FLOOD LIGHT	LITHONIA LIGHTING	DSXF2 LED-P1-30K-70CRI-NSP-MVOLT-THK-PE-DDBXD	8,248 LUMENS LED 3000K	120/277	129	1/2" NPT THREAD	VERIFY ALL FINISHES WITH ARCHITECT
M	OUTDOOR LED FLOOD LIGHT	LITHONIA LIGHTING	DSXF2 LED-P2-30K-70CRI-HMF-MVOLT-THK-PE-DDBXD	8,963 LUMENS LED 3000K	120/277	113	1/2" NPT THREAD	VERIFY ALL FINISHES WITH ARCHITECT
N	4" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN4-35/07-L04-AR-LSS-TRW-MVOLT-GZ10	751 LUMENS LED 3500K	120/277	8.6	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
O	6" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN6-35/30-L06-AR-LSS-TRW-MVOLT-GZ10	3021 LUMENS LED 3500K	120/277	34.8	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
OE	6" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN6-35/30-L06-AR-LSS-TRW-MVOLT-GZ10-EL	3021 LUMENS LED 3500K	120/277	34.8	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
P	LED CANOPY FIXTURE	LITHONIA LIGHTING	VCPGX LED-V4-P2-30K-70CRI-T5M-MVOLT-SRM-UPL1-PIR-DDBXD	4567 LUMENS LED 3000K	120/277	40.5	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT
	ARCHITECTURAL EMERGENCY LIGHTING	LITHONIA LIGHTING	AFF-OEL-DBLBXD-UVOLT-LTP-SDRT-FCT	3021 LUMENS LED 3500K	120/277	34.8	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
	LED EMERGENCY LIGHT/ EXIT SIGN	DUAL-LITE	EVC-U-R-W	88 LUMENS/LED	120/277	1.65	EMERGENCY	VERIFY ALL FINISHES WITH ARCHITECT
	LED EMERGENCY EXIT SIGN	DUAL-LITE	EVE-U-R-W-E	-	120/277	1.94	EMERGENCY	VERIFY ALL FINISHES WITH ARCHITECT

GENERAL LIGHTING NOTES

1. FINAL SELECTION AND APPROVAL OF ALL NEW LIGHT FIXTURES AND ACCESSORIES IS SUBJECT TO THE ARCHITECT'S REVIEW.
2. COORDINATE WITH ARCHITECTURAL PLANS, CEILING TYPES AND WITH EXISTING CEILING MOUNTED EQUIPMENT FOR EXACT LIGHT FIXTURE LOCATIONS.
3. COORDINATE COMPATIBILITY OF ALL NEW LIGHT FIXTURES WITH SELECTED LIGHTING CONTROL DEVICE/SYSTEM.



KEY PLAN

The McKnight Group
Leaders in Innovative Church Design and Building

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Phone: (614) 875-1655
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www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

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DESIGNTECH INC.
Engineering Services
10410 Kensington Parkway, Suite 200
Kensington, MD 20895
Phone: 301 949-2068 • Fax: 301 949-2069
Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'A'
LIGHTING

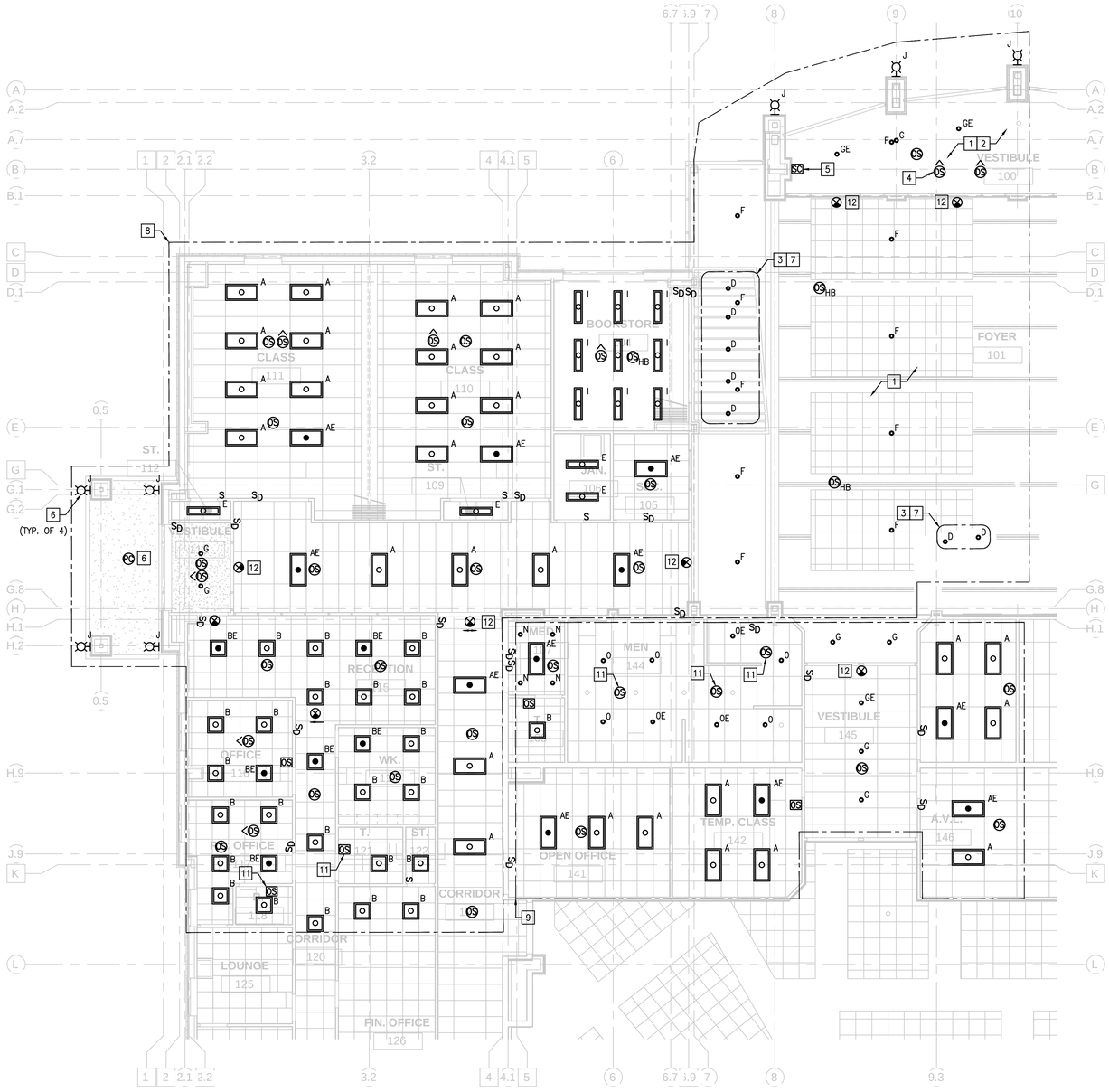
E301

OF SHEETS

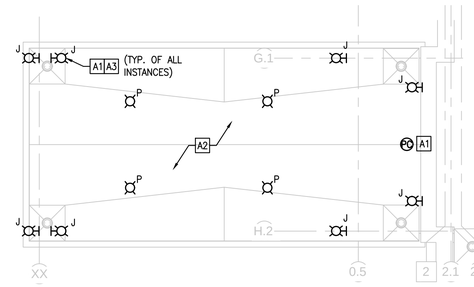
216118

5 4 3 2 1

D C B A



PARTIAL FLOOR PLAN – SECTION 'A' LIGHTING [10]
SCALE: 1/8" = 1'-0"



ADD ALTERNATE #1 – SECTION 'A' CANOPY LIGHTING
SCALE: 1/8" = 1'-0"

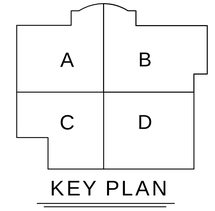
LIGHTING PLAN NOTES

1. 'F' TYPE FIXTURES IN THIS AREA SHALL BE SUSPENDED AT 24' A.F.F.
2. 'G' TYPE FIXTURES IN THIS AREA ARE MOUNTED IN CEILING, ROUGHLY 10' A.F.F
3. 'D' TYPE FIXTURES IN THIS AREA ARE SURFACE MOUNTED ON PORTICO AT ROUGHLY 10' A.F.F.
4. DAYLIGHTING SENSOR SHALL CONTROL 'F' TYPE FIXTURES ABOVE THE VESTIBULE AREA.
5. PROVIDE 8-BUTTON SCENE SELECTOR FOR MANUAL CONTROL OF VESTIBULE, FOYER, AND ADJACENT SEATING AREAS.
6. OUTDOOR SCONCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
7. 'D' TYPE PORTICO FIXTURES SHALL HAVE INDEPENDENT ON/OFF/DIMMABLE SWITCH, BUT SHALL SHARE OCCUPANCY/VACANCY SENSORS, AND TIME CONTROLS OF ADJACENT FOYER AREA.
8. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1-36.
9. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2-36.
10. LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
11. PROVIDE ADDITIONAL 20A MECHANICALLY RATED POWER PACK FOR THE PURPOSE OF OPERATING ASSOCIATED AREA EXHAUST FAN DURING OCCUPANCY (WHILE LIGHTING CONTROLS ARE "ON"). SEE SHEET E402 FOR EXHAUST FAN CIRCUIT DESIGNATIONS AND EQUIPMENT REQUIREMENTS.
12. EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.

ADD ALTERNATE #1 NOTES

NOTE: ALL ADD ALTERNATE WORK SHALL BE PROVIDED AS A SEPARATE LINE ITEM FOR BIDDING PURPOSES.

- A1 OUTDOOR SCONCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
- A2 LIGHTING SHALL BE CONNECTED TO ADJACENT INDOOR LIGHTING CIRCUIT LP1-36.
- A3 SCONCE LIGHTING SHALL BE INSTALLED ON CANOPY PILLARS (NOT SHOWN ON THE REFLECTED CEILING PLAN).



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'A'
LIGHTING

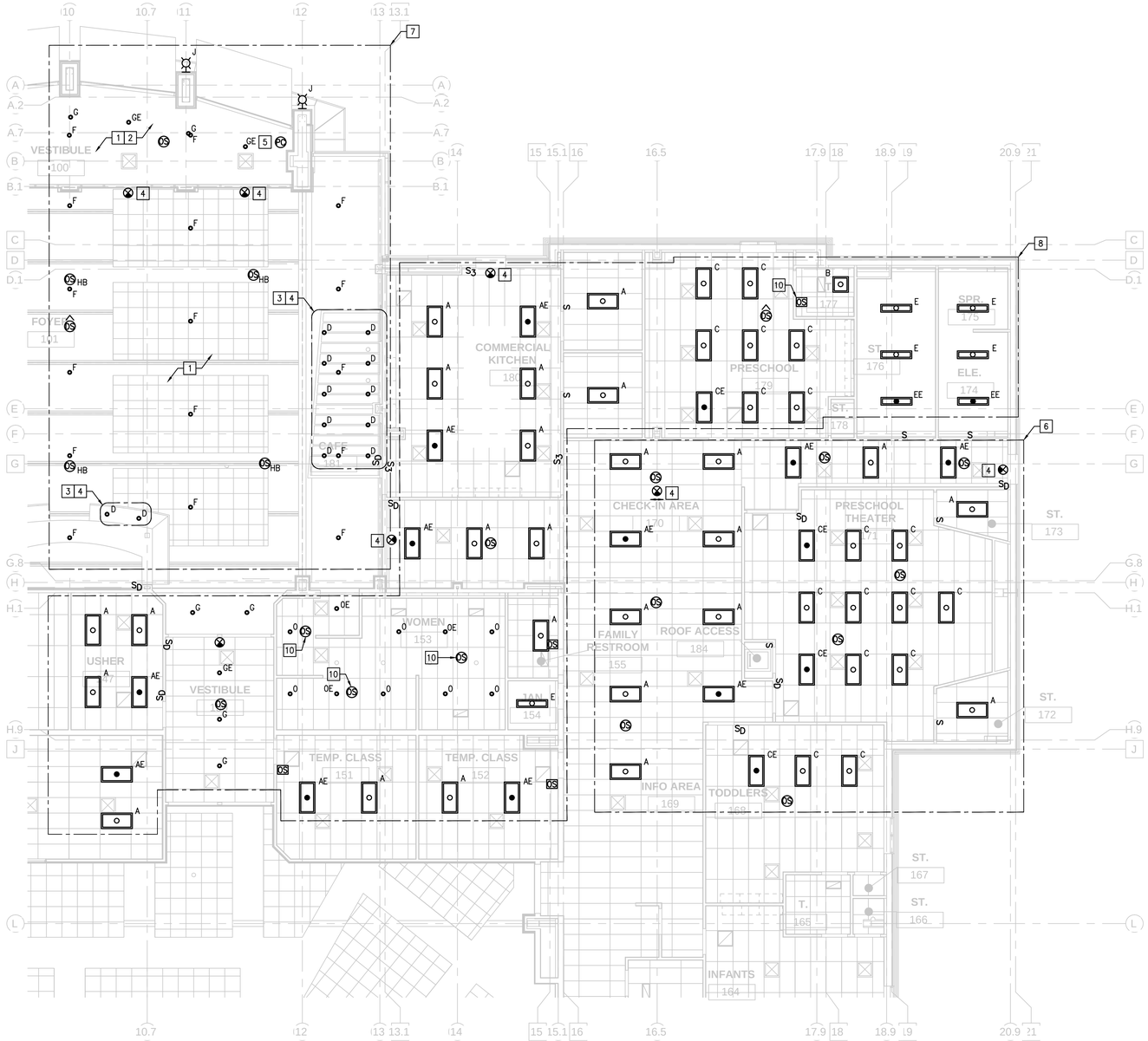
E302

OF SHEETS

216118

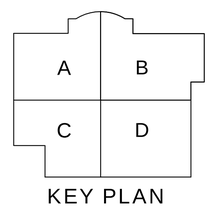
LIGHTING PLAN NOTES

1. 'F' TYPE FIXTURES IN THIS AREA SHALL BE SUSPENDED AT 24' A.F.F.
2. 'G' TYPE FIXTURES IN THIS AREA ARE MOUNTED IN CEILING, ROUGHLY 10' A.F.F
3. 'D' TYPE FIXTURES IN THIS AREA ARE SURFACE MOUNTED ON PORTICO AT ROUGHLY 10' A.F.F.
4. 'D' TYPE PORTICO FIXTURES SHALL HAVE INDEPENDENT ON/OFF/DIMMABLE SWITCH, BUT SHALL SHARE OCCUPANCY/VACANCY SENSORS, AND TIME CONTROLS OF ADJACENT FOYER AREA.
5. OUTDOOR SCONCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
6. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2–35.
7. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1–35.
8. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1–34.
9. LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
10. PROVIDE ADDITIONAL 20A MECHANICALLY RATED POWER PACK FOR THE PURPOSE OF OPERATING ASSOCIATED AREA EXHAUST FAN DURING OCCUPANCY (WHILE LIGHTING CONTROLS ARE "ON"). SEE SHEET E403 FOR EXHAUST FAN CIRCUIT DESIGNATIONS AND EQUIPMENT REQUIREMENTS.



PARTIAL FLOOR PLAN – SECTION 'B' LIGHTING 9

SCALE: 1/8" = 1'–0"



KEY PLAN

The McKnight Group
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DESIGN TECH
DESIGNTECH INC.
Engineering Services
10410 Kensington Parkway, Suite 200
Kensington, MD 20895
Phone: 301 949-2068 • Fax: 301 949-2069
Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'B'
LIGHTING

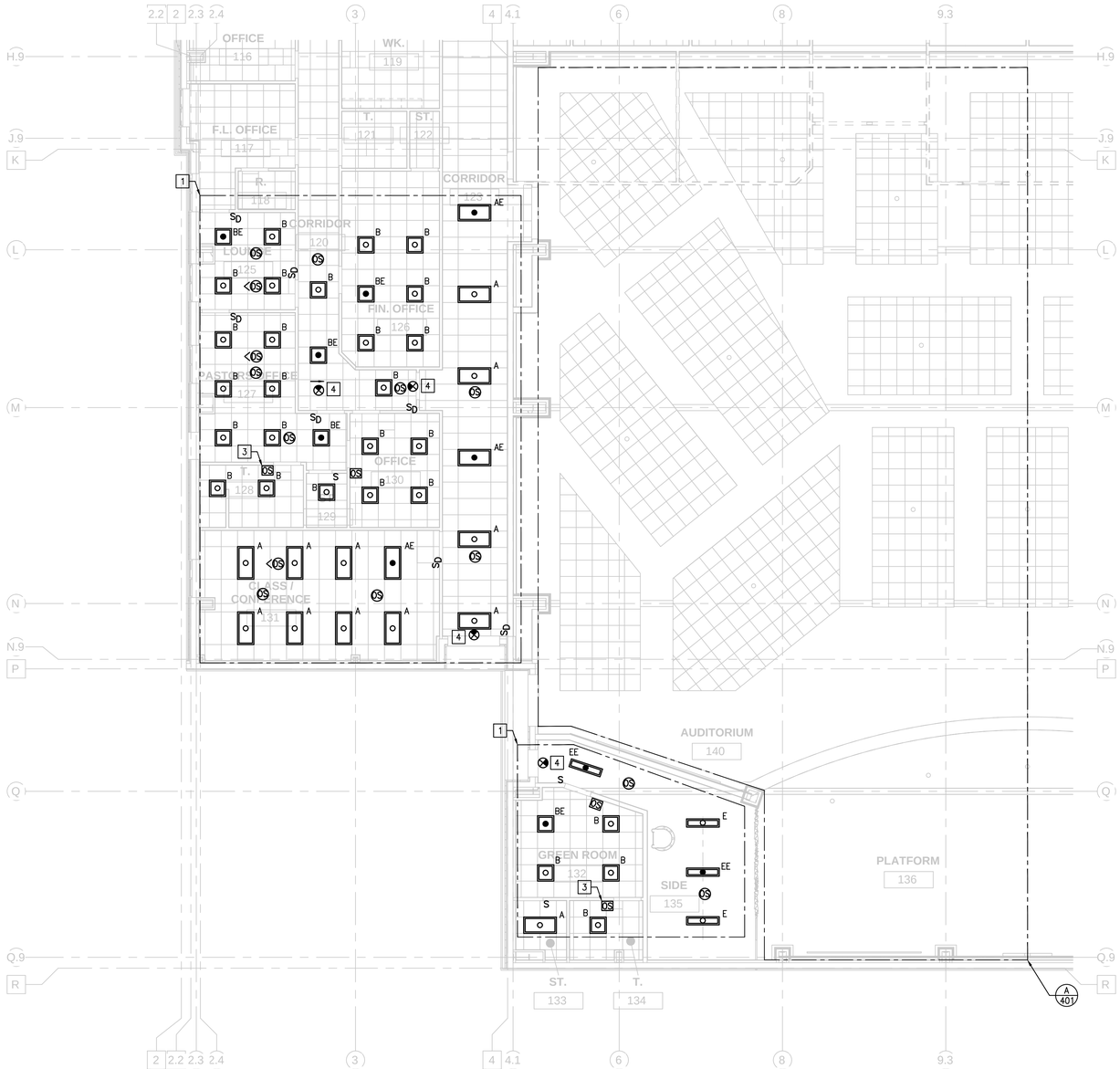
E303

OF SHEETS

216118

5 4 3 2 1

D C B A



PARTIAL FLOOR PLAN – SECTION 'C' LIGHTING [2]

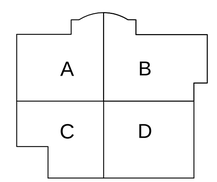
SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

LIGHTING PLAN NOTES

1. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2-36.
2. LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
3. PROVIDE ADDITIONAL 20A MECHANICALLY RATED POWER PACK FOR THE PURPOSE OF OPERATING ASSOCIATED AREA EXHAUST FAN DURING OCCUPANCY (WHILE LIGHTING CONTROLS ARE "ON"). SEE SHEET E404 FOR EXHAUST FAN CIRCUIT DESIGNATIONS AND EQUIPMENT REQUIREMENTS.
4. EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.



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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'C'
LIGHTING

E304

OF SHEETS

216118

5 4 3 2 1

D C B A

FLOOR PLAN – LIGHTING [2]
SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV–0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

LIGHTING PLAN NOTES

1. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2–35.
2. LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
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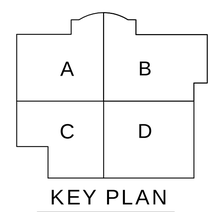
4. EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.



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☐ PERMIT SET	

REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'D'
LIGHTING

E305

OF SHEETS

216118

5 4 3 2 1
D C B A

LIGHTING PLAN NOTES

1. LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2–35.
2. LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
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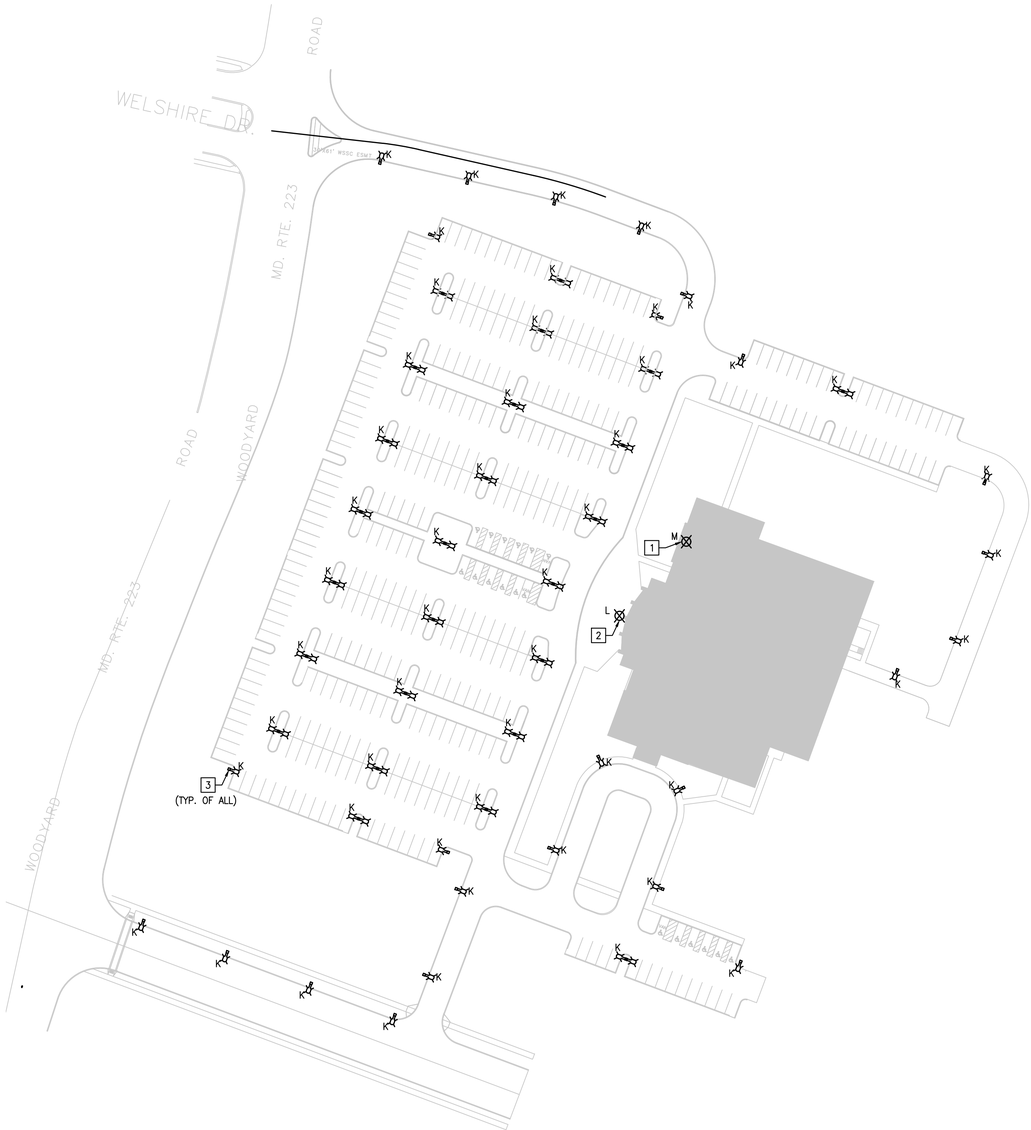
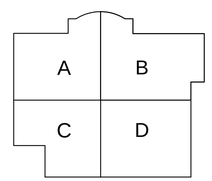


SITE PLAN – LIGHTING
SCALE: 1/64" = 1'–0"



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REVISIONS/ADDENDUMS

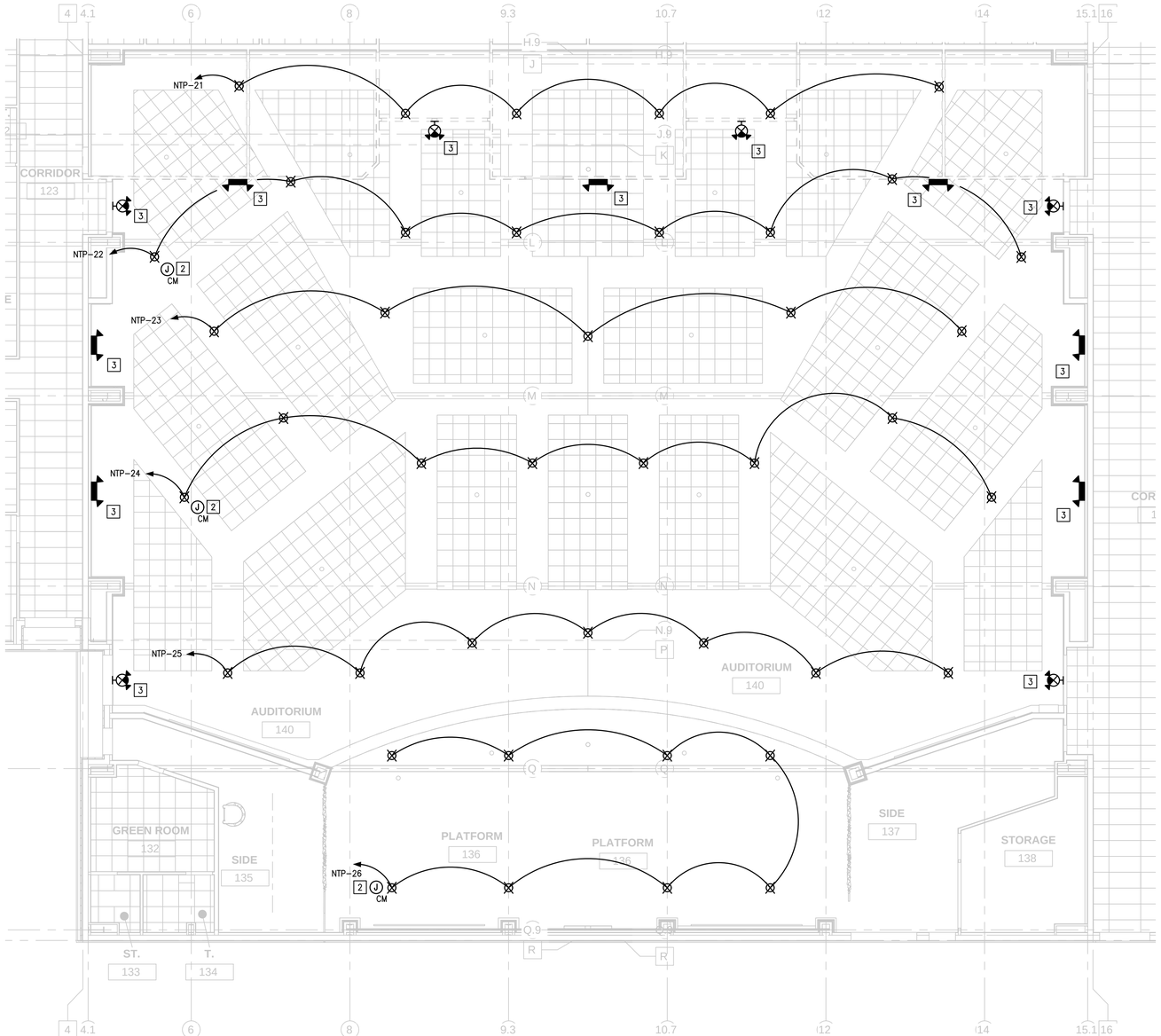
SITE PLAN
LIGHTING

E306

OF SHEETS

216118

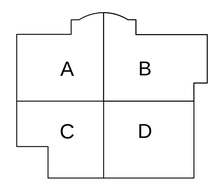
5 4 3 2 1



A PARTIAL FLOOR PLAN – AUDITORIUM LIGHTING 1
SCALE: 1/8" = 1'–0"

LIGHTING PLAN NOTES

1. SEE SHEET AV–1.5, AND AV–1.6 FOR POWER AND CONTROLS REQUIREMENTS FOR AUDITORIUM HOUSE LIGHTING.
2. PROVIDE JUNCTION BOX FOR ROUTING DMX CONTROLS CABLING FOR AUDITORIUM HOUSE LIGHTING ZONES.
3. EMERGENCY FIXTURES SHALL BE FED FROM PANEL NTP–42.



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REVISIONS/ADDENDUMS

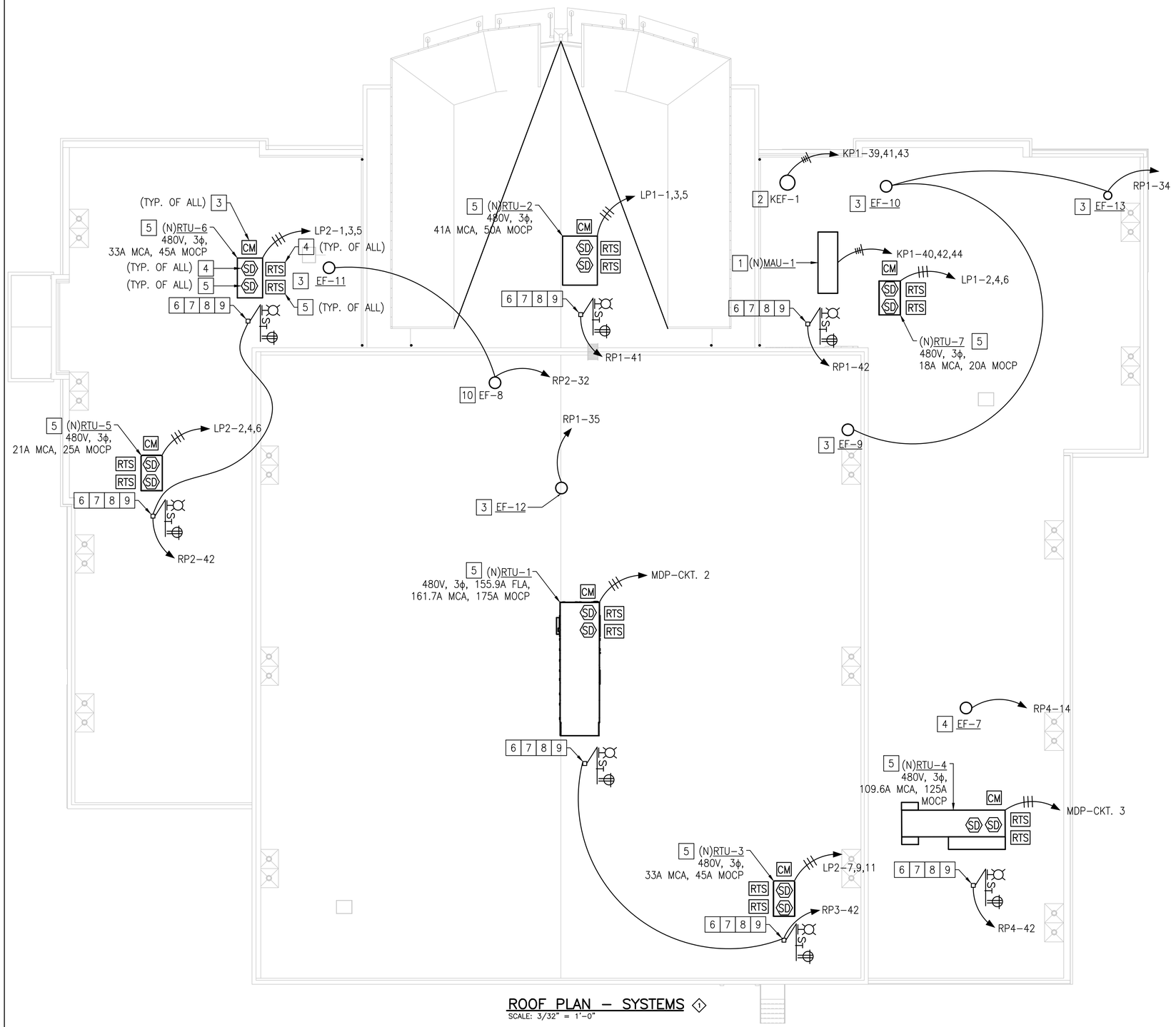
FIRST FLOOR PLAN
ENLARGED PLANS
LIGHTING

E401

OF SHEETS

216118

5 4 3 2 1
D C B A



ROOF PLAN – SYSTEMS ◇1
SCALE: 3/32" = 1'-0"

POWER PLAN NOTES

1. MAKE-UP AIR UNIT "MAU-1". 208V, 3ϕ, 8.3A FLA, 10.4A MCA, 20A MOCP. PROVIDED WITH PRE-WIRED VFD BY VENDOR. CONTRACTOR SHALL PROVIDE SEPARATE 120V, 1ϕ CIRCUIT, DESIGNATED AS SHOWN, TO MUA SWITCH. SEE EXHAUST HOOD SUBMITTAL FOR FURTHER DETAILS.
2. KITCHEN EXHAUST FAN "KEF-1". 208V, 3ϕ, 6.1A, 20A MOCP. INTEGRAL DISCONNECT SWITCH AND PRE-WIRED VFD BY VENDOR.
3. ROOF-TOP EXHAUST FAN. 120V, 1ϕ, 1.3A FLA, 1.6A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY.
4. ROOF-TOP EXHAUST FAN "EF-7". 120V, 1ϕ, 3.8A FLA, 4.8A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
5. NEW HVAC ROOF-TOP UNIT SUPPLIED WITH INTEGRAL DISCONNECT.
6. PROVIDE NEW OUTDOOR LED WALLPACK MOUNTED ON 4" WATERPROOF JUNCTION BOX ON UNISTRUT MOUNTING SYSTEM. LITHONIA LIGHTING TYPE TWPX1 LED-P2-50K-MVOLT-DBLXD, OR APPROVED EQUAL.
7. PROVIDE NEW 1-HOUR TIMER SWITCH IN WEATHERPROOF ENCLOSURE. PM CONTROLS TYPE PM-60M, OR APPROVED EQUAL. WIRE SO THAT TIMER SWITCH DOES NOT AFFECT ASSOCIATED GFCI RECEPTACLES ON SAME CIRCUIT.
8. PROVIDE STANDALONE UNISTRUT MOUNTING SYSTEM FOR FIXTURES AND SWITCHES IN THIS LOCATION. SEE TYPICAL DETAIL ON SHEET E002 FOR FURTHER INFORMATION.
9. PROVIDE CONVENIENCE GFCI RECEPTACLE IN WEATHERPROOF "WHILE-IN-USE" ENCLOSURE. MOUNT TO UNISTRUT MOUNTING SYSTEM.
10. ROOF-TOP EXHAUST FAN "EF-8". 120V, 1ϕ, 6.6A FLA, 8.2A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.

FIRE ALARM PLAN NOTES

◇1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO: ADDITION OF STROBES, AUDIBLE DEVICES, CIRCUITRY EXTENSION, AND SYSTEM PROGRAM MODIFICATIONS. FURNISH AND INSTALL ALL NECESSARY CONTROL EQUIPMENT INCLUDING BOOSTER PANEL, INITIATING DEVICES AND NOTIFICATION APPLIANCES REQUIRED FOR THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEMS DETAILED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN. THE EQUIPMENT FURNISHED SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT. THE CONTRACTOR SHALL SURVEY THE EXISTING CONTROL PANEL TO DETERMINE ANY NECESSARY MODIFICATIONS AND/OR ADDITIONS NECESSARY TO INCORPORATE THE DEVICES ADDED UNDER THIS CONTRACT. PROVIDE SYNCHRONIZING OF STROBES FOR ALL EXISTING, NEW & RELOCATED DEVICES WITHIN THE AREA OF WORK. SYNCHRONIZATION OF STROBES SHALL BE PER NFPA72 REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL AUTHORITY AND SHALL INCLUDE, BUT NOT LIMITED TO EQUIPMENT CUT SHEET, SEQUENCE OF OPERATION, BATTERY CALCULATIONS, CIRCUIT CAPACITY CALCULATIONS, WIRING DIAGRAMS, RISER DIAGRAMS AND FLOOR PLANS.

◇2 PROVIDE TWO CONTROL MODULES – ONE FOR SMOKE DETECTOR HVAC FAN SHUTDOWN AND ONE FOR OVERRIDE OF HVAC FAN SHUTDOWN. CONNECT TO FIRE ALARM SYSTEM AND PROGRAM SO THAT ANY AREA SMOKE OR RETURN AIR DUCT SMOKE DETECTOR CAUSES FAN SHUTDOWN. AHU START CIRCUIT WIRED VIA RELAY BY TEMP CONTROLS CONTRACTOR.

◇3 PROVIDE RETURN DUCT SMOKE DETECTOR, SAMPLE TUBE, AND REMOTE ALARM AND TEST SWITCH. PROGRAM DETECTORS FOR HVAC FAN SHUT DOWN. SEE MECHANICAL DRAWINGS FOR EXACT INSTALLATION LOCATION. REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN THE CEILING BELOW LOCATION SHOWN, ACCESSIBLE AND VISIBLE FROM THE INTERIOR OF THE BUILDING FOR EASE OF USE.

◇4 PROVIDE SUPPLY DUCT SMOKE DETECTOR, SAMPLE TUBE, AND REMOTE ALARM AND TEST SWITCH. PROGRAM DETECTORS FOR HVAC FAN SHUT DOWN. SEE MECHANICAL DRAWINGS FOR EXACT INSTALLATION LOCATION. REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN THE CEILING BELOW LOCATION SHOWN, ACCESSIBLE AND VISIBLE FROM THE INTERIOR OF THE BUILDING FOR EASE OF USE.

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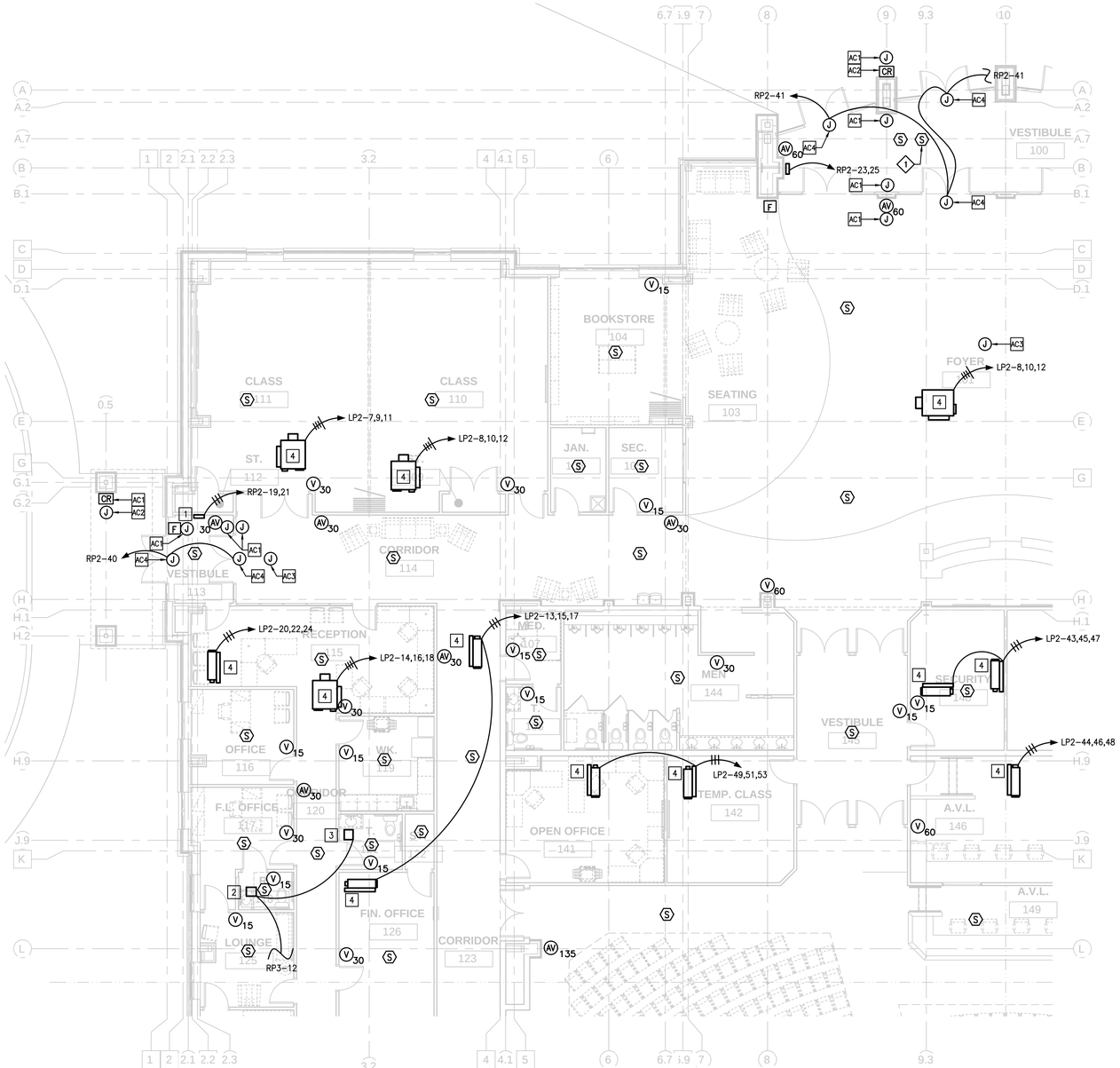
REVISIONS/ADDENDUMS

ROOFTOP PLAN SYSTEMS

E501

OF SHEETS

216118



PARTIAL FLOOR PLAN – SECTION 'A' SYSTEMS ◇2

SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

1. UNIT HEATER "UH-A". 208V, 1ϕ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
2. EXHAUST FAN "EF-6". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E302 FOR FURTHER DETAILS.
3. EXHAUST FAN "EF-3". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E302 FOR FURTHER DETAILS.
4. FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

FIRE ALARM PLAN NOTES

◇1 SMOKE DETECTOR MOUNTED ON CEILING AT ROUGHLY 32' A.F.F.

◇2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO: ADDITION OF STROBES, AUDIBLE DEVICES, CIRCUITRY EXTENSION, AND SYSTEM PROGRAM MODIFICATIONS. FURNISH AND INSTALL ALL NECESSARY CONTROL EQUIPMENT INCLUDING BOOSTER PANEL, INITIATING DEVICES AND NOTIFICATION APPLIANCES REQUIRED FOR THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEMS DETAILED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN. THE EQUIPMENT FURNISHED SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT. THE CONTRACTOR SHALL SURVEY THE EXISTING CONTROL PANEL TO DETERMINE ANY NECESSARY MODIFICATIONS AND/OR ADDITIONS NECESSARY TO INCORPORATE THE DEVICES ADDED UNDER THIS CONTRACT. PROVIDE SYNCHRONIZING OF STROBES FOR ALL EXISTING, NEW & RELOCATED DEVICES WITHIN THE AREA OF WORK. SYNCHRONIZATION OF STROBES SHALL BE PER NFPA72 REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL AUTHORITY AND SHALL INCLUDE, BUT NOT LIMITED TO EQUIPMENT CUT SHEET, SEQUENCE OF OPERATION, BATTERY CALCULATIONS, CIRCUIT CAPACITY CALCULATIONS, WIRING DIAGRAMS, RISER DIAGRAMS AND FLOOR PLANS.

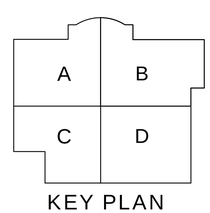
ACCESS CONTROL PLAN NOTES

AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING PUSH PLATE AUTO DOOR OPENER BUTTON. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.

AC2 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING CARD READER. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.

AC3 PROVIDE CEILING MOUNTED 4" JUNCTION BOX FOR THE PURPOSE OF HOUSING MOTION DETECTOR. RUN 1" CONDUIT BACK TO SECURITY PANEL IN SECURITY ROOM [105]. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.

AC4 PROVIDE 12"X12" BACKBOX IN ORDER TO HOUSE DEDICATED DOOR CONTROLLER (DDC). SEE TYPICAL DOOR CONTROLS INSTALLATION DETAILS ON SHEET E002.



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☐ PERMIT SET	

REVISIONS/ADDENDUMS

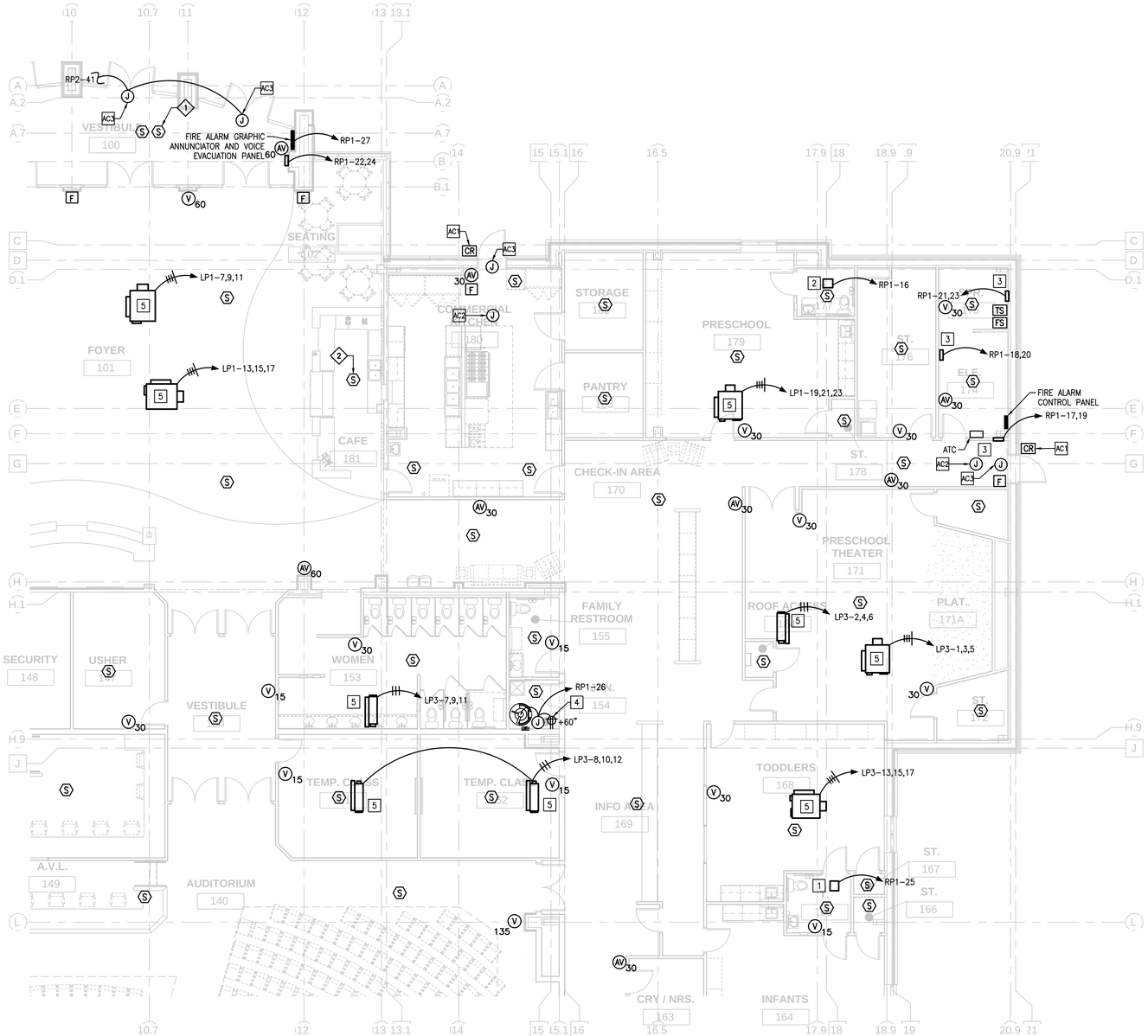
FIRST FLOOR PLAN
SECTION 'A'
SYSTEMS

E502

OF SHEETS

216118

5 4 3 2 1



PARTIAL FLOOR PLAN – SECTION 'B' SYSTEMS ②

SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

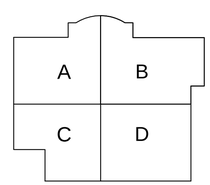
1. EXHAUST FAN "EF-5". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
2. EXHAUST FAN "EF-4". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
3. UNIT HEATER "UH-A". 208V, 1ϕ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
4. GFCI RECEPTACLE FOR PURPOSE OF FEEDING HOT WATER RECIRCULATION PUMP. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH MECHANICAL EQUIPMENT BEING SERVED.
5. FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

FIRE ALARM PLAN NOTES

1. SMOKE DETECTOR MOUNTED ON CEILING AT ROUGHLY 32' A.F.F.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO: ADDITION OF STROBES, AUDIBLE DEVICES, CIRCUITRY EXTENSION, AND SYSTEM PROGRAM MODIFICATIONS. FURNISH AND INSTALL ALL NECESSARY CONTROL EQUIPMENT INCLUDING BOOSTER PANEL, INITIATING DEVICES AND NOTIFICATION APPLIANCES REQUIRED FOR THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEMS DETAILED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN. THE EQUIPMENT FURNISHED SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT. THE CONTRACTOR SHALL SURVEY THE EXISTING CONTROL PANEL TO DETERMINE ANY NECESSARY MODIFICATIONS AND/OR ADDITIONS NECESSARY TO INCORPORATE THE DEVICES ADDED UNDER THIS CONTRACT. PROVIDE SYNCHRONIZING OF STROBES FOR ALL EXISTING, NEW & RELOCATED DEVICES WITHIN THE AREA OF WORK. SYNCHRONIZATION OF STROBES SHALL BE PER NFPA72 REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL AUTHORITY AND SHALL INCLUDE, BUT NOT LIMITED TO EQUIPMENT CUT SHEET, SEQUENCE OF OPERATION, BATTERY CALCULATIONS, CIRCUIT CAPACITY CALCULATIONS, WIRING DIAGRAMS, RISER DIAGRAMS AND FLOOR PLANS.

ACCESS CONTROL PLAN NOTES

- AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING CARD READER. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC2 PROVIDE CEILING MOUNTED 4" JUNCTION BOX FOR THE PURPOSE OF HOUSING MOTION DETECTOR. RUN 1" CONDUIT BACK TO SECURITY PANEL IN SECURITY ROOM [105]. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC3 PROVIDE 12"X12" BACKBOX IN ORDER TO HOUSE DEDICATED DOOR CONTROLLER (DDC). SEE TYPICAL DOOR CONTROLS INSTALLATION DETAILS ON SHEET E002.



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NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
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☐ PERMIT SET	

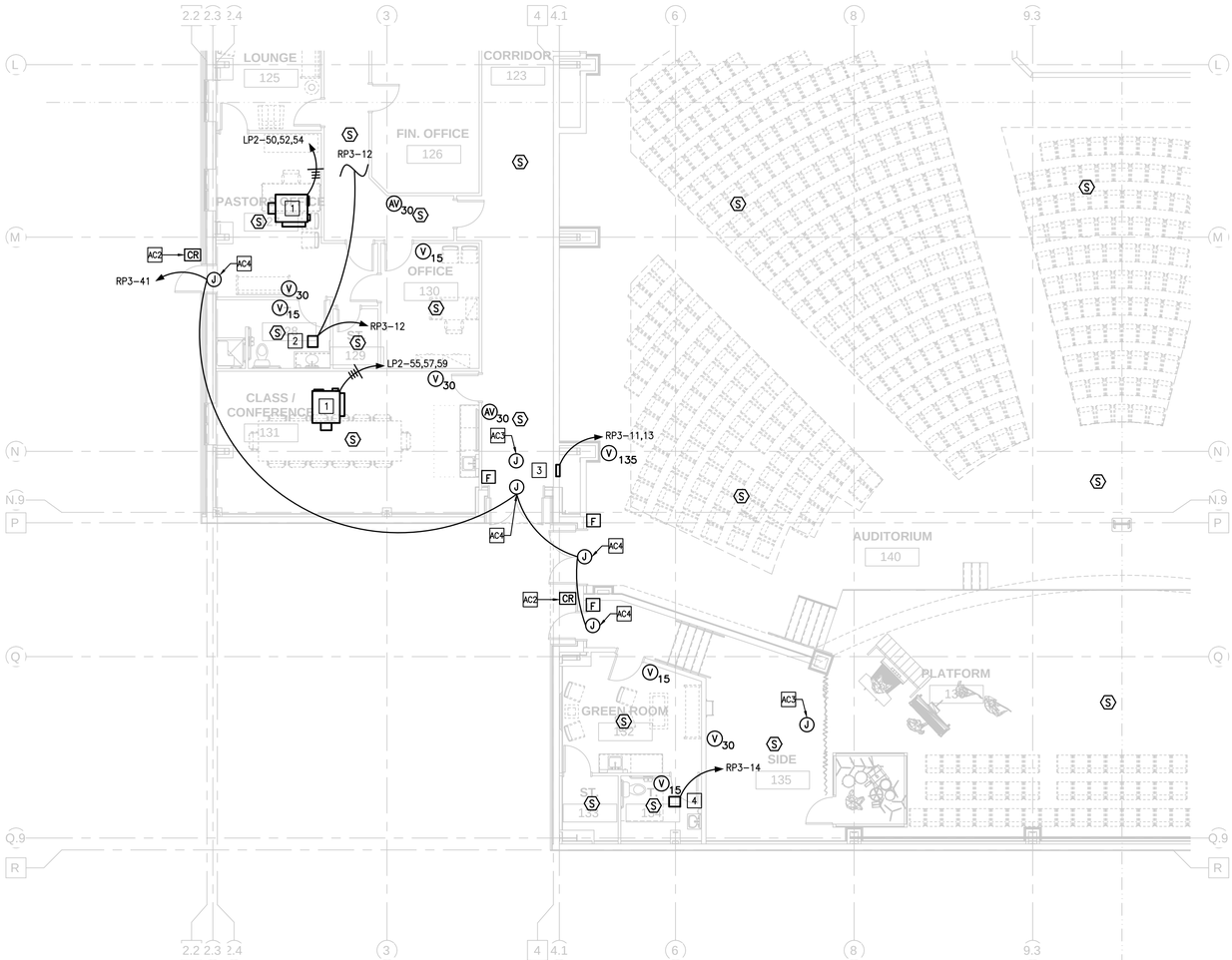
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'B'
SYSTEMS

E503

OF SHEETS

216118



PARTIAL FLOOR PLAN – SECTION 'C' SYSTEMS ◇1

SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

1. FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.
2. EXHAUST FAN "EF-2". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E304 FOR FURTHER DETAILS.
3. UNIT HEATER "UH-A". 208V, 1ϕ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
4. EXHAUST FAN "EF-1". 120V, 1ϕ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E304 FOR FURTHER DETAILS.

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ACCESS CONTROL PLAN NOTES

AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING PUSH PLATE AUTO DOOR OPENER BUTTON. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.

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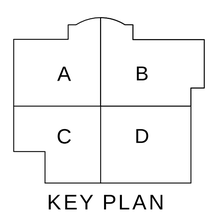

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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'C'
SYSTEMS

E504

OF SHEETS

216118

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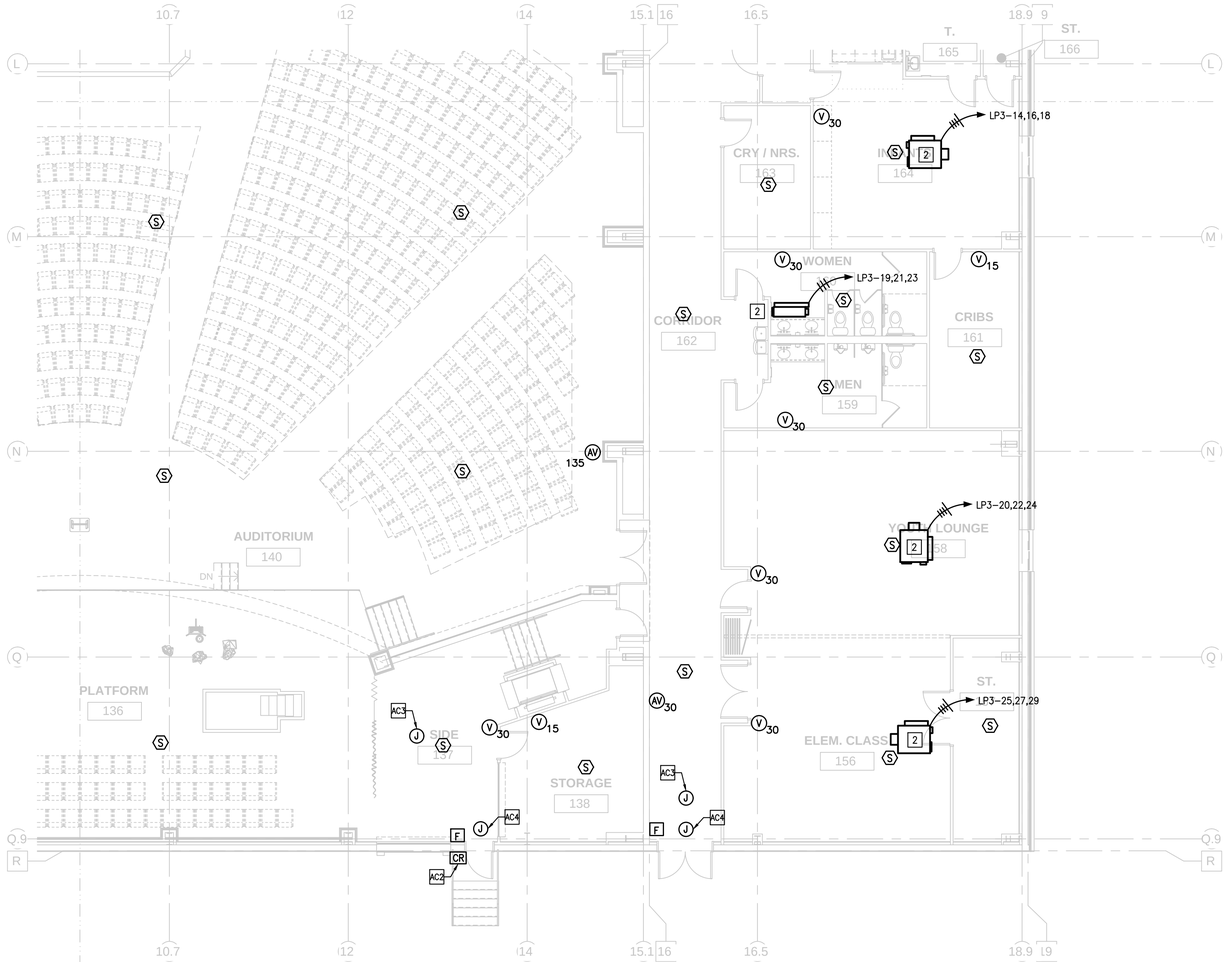

PARTIAL FLOOR PLAN – SECTION 'D' SYSTEMS ◇1

SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

1 UNIT HEATER "UH-A". 208V, 1ϕ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.

2 FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

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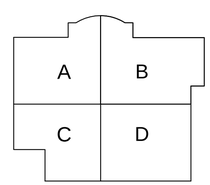

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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'D'
SYSTEMS

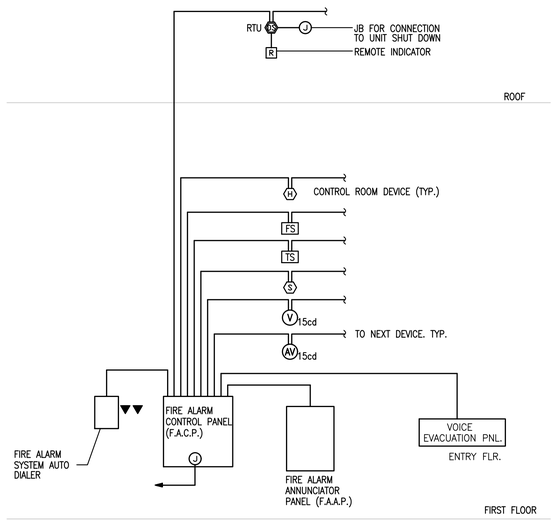
E505

OF SHEETS

216118

5 4 3 2 1

D C B A



FIRE ALARM SYSTEM RISER DIAGRAM

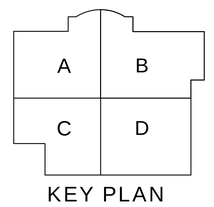
SCALE: NONE

FIRE ALARM RISER NOTES

1. ALL WIRE AND CONDUIT AND SHALL BE AS REQUIRED BY EQUIPMENT MANUFACTURER.
2. FIRE ALARM CONDUCTORS SHALL BE KEPT A MINIMUM DISTANCE OF 12" FROM ELECTRICAL WIRING.
3. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
4. PROVIDE AUTOMATIC DIALER FOR THE FIRE ALARM CONTROL PANEL.
5. PROVIDE BATTERY AND CHARGER SYSTEM AS INTEGRAL PART OF F.A.C.P.
6. THE VOICE EVACUATION PANEL SHALL BE SECURED FROM VANDALISM AND SHALL BE PROVIDED WITH BUILT-IN MICROPHONE AND ALL CALL CAPABILITY AS MINIMUM REQUIREMENTS, AND SHALL BE INSTALLED NEXT TO THE NEW FIRE ALARM ANNUNCIATOR PANEL. REFER TO VOICE EVACUATION SYSTEM GENERAL NOTES ON THIS SHEET.

VOICE EVACUATION SYSTEM GENERAL NOTES

1. THE VOICE EVACUATION PANEL DESIGN BASE IS EVAX 50 BY EVAX SYSTEMS SOUND SOLUTIONS, OR APPROVED EQUAL, AND OPERATES WITH ANY FIRE ALARM CONTROL PANEL (FACP).
2. THE VOICE EVACUATION PANEL SHALL BE INSTALLED IN A SEMI-FLUSH MOUNTED BACKBOX, WITH A HINGED AND KEY LOCKED DOOR. MOUNTING HEIGHT SHALL BE APPROXIMATELY FIFTY-TWO (52) INCHES ABOVE FINISHED FLOOR TO THE CENTER OF BACKBOX. THE BACKBOX DIMENSIONS ARE 14.5"W X 18"H X 4"D.
3. THE VOICE EVACUATION SYSTEM SHALL PROVIDE 50 WATTS SIGNAL POWER AND 50 WATTS VOICE POWER, AND SHALL BE UL LISTED.
4. THE VOICE EVACUATION SYSTEM SHALL BE MICROPROCESSOR BASED, AND SHALL CONTAIN AN INTEGRAL MICROPHONE, 50 WATT AUDIO AMPLIFIER, TONE GENERATOR, DIGITAL MESSAGE REPEATER, 120VAC POWER SUPPLY, BATTERIES AND BATTERY CHARGER.
5. THE VOICE EVACUATION MESSAGE/SIGNAL SHALL BE BROADCAST UNTIL THE FIRE ALARM CONTROL PANEL (FACP) IS RESET, OR UNTIL FIRE EMERGENCY PERSONNEL INTERRUPT THE BROADCAST WITH A MANUAL PAGE. OR RESET THE SYSTEM SHALL AUTOMATICALLY RETURN TO STANDBY (NORMAL OPERATING) CONDITION.
6. A SECONDARY MESSAGE SHALL BE PROVIDED WHICH CAN BE TRIGGERED BY THE CLOSURE OF A CONTACT FROM EITHER THE FACP OR FROM ANY NORMALLY OPEN CONTACT DEVICE.
7. REMOTE PAGING MICROPHONE(S) SHALL BE SUPPORTED BY THE SYSTEM THROUGH A SUPERVISED CIRCUIT. REMOTE MICROPHONE(S) MAY BE MOUNTED UP TO 5,000 FEET AWAY FROM THE VOICE EVACUATION PANEL.
8. THE ALARM COMMUNICATION SYSTEM SHALL BE DESIGNED AND INSTALLED SO DAMAGE TO ANY TERMINAL UNIT OR SPEAKER WILL NOT RENDER MORE THAN ONE ZONE OF THE SYSTEM INOPERATIVE.
9. THE SYSTEM SHALL BE CONTINUOUSLY ELECTRICALLY SUPERVISED AGAINST COMPONENT FAILURE OF THE AUDIOPATH INCLUDING AMPLIFIERS, SPEAKER WIRING, SWITCHES, AND ELECTRICAL CONTACTS AND SHALL DETECT OPENS, SHORTS AND GROUNDS WHICH MIGHT IMPAIR THE FUNCTION FO THE SYSTEM. BOTH A VISUAL AND AUDIBLE TROUBLE SIGNAL SHALL OPERATE AT AN APPROVED CENTRAL STATION.
10. ALL WIRING SHALL BE INSTALLED IN METALLIC TUBING OR APPROVED EQUIVALENT. THE INSTALLATION SHALL BE IN A MANNER WHICH WILL AFFORD THE MAXIMUM PROTECTION AGAINST THE EFFECTS OF FIRE AND WHICH WILL FACILITATE REPAIR OR REPLACEMENT.
11. THE SYSTEM SHALL BE INSTALLED SO TROUBLE CAN BE READILY DETECTED BY FLOOR AND DEVICE.
12. THERE SHALL BE A MAINTAINED CONTACT PUSH BUTTON AND VISUAL INDICATOR FOR EACH FLOOR LEVEL OR ZONE. AN "ALL CALL" POSITION IS ALSO REQUIRED. OPERATION SHALL BE BY SELECTIVE BASIS; I.E., ONE ZONE, ANY COMBINATION OF ZONES, OR BY ALL ZONES. ONE SET OF MAINTAINED PUSH BUTTONS FOR THE FIRE ALARM SYSTEM AND ONE SET FOR THE PUBLIC ADDRESS SYSTEM IS REQUIRED.
13. ZONES SHALL BE LIMITED TO A MAXIMUM OF 22,500 SQUARE FEET. IN NO INSTANCE SHALL A ZONE ENCOMPASS MORE THAN ONE FLOOR LEVEL. FLOORS SHALL ALARM ON A PER FLOOR BASIS AND ALARMS SHALL ANNUNCIATE BY FLOOR, ZONE AND DEVICE.
14. SPEAKERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ELEVATORS, ELEVATOR LOBBIES, CORRIDORS AND EXIT STAIRWELLS.
15. SPEAKERS SHALL BE LISTED BY A RECOGNIZED TESTING AUTHORITY FOR FIRE ALARM USE. SPEAKERS SHALL PROVIDE THE SOUND LEVELS SPECIFIED IN NFPA 72 AT ALL LOCATIONS IN THE STRUCTURE.
16. WALL MOUNTED SPEAKERS SHALL BE INSTALLED SO SOUND REPRODUCTION IS IN ONE DIRECTION ONLY. IN NO INSTANCE SHALL CORRIDOR SPEAKERS BE INSTALLED SO SOUND REPRODUCTION IS DIRECTED TOWARDS THE OPPOSITE WALL.
17. SPEAKER SPACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER, THE LISTING AUTHORITY, AND ABOVE ALL, TO PROVIDE THE REQUIRED SOUND REPRODUCTION LISTED UNDER ITEM "15".
18. THE PRE-TAPED MESSAGE SHALL BE: "THERE IS A FIRE EMERGENCY IN THE BUILDING. YOU ARE TO LEAVE THE BUILDING BY THE NEAREST EXIT OR EXIT STAIR. DO NOT USE THE ELEVATORS." VISUAL INDICATION THAT THE MESSAGE IS BEING DELIVERED TO THE REQUIRED ZONES SHALL BE INSTALLED AT THE CONTROL PANEL.
19. FAILURE OF THE PRE-TAPED MESSAGE FOR ANY REASON SHALL CAUSE THE FIRE ALARM SIGNAL TO SOUND CONTINUOUSLY IN THE REQUIRED ZONES UNTIL THE SYSTEM HAS BEEN RESTORED TO NORMAL OR IS SILENCED AT THE CONTROL PANEL.
20. THE ALARM SIGNAL SHALL BE THE SLOW WHOOP SIGNAL. THE ALARM SIGNAL SHALL SOUND FOR A MAXIMUM OF 15 SECONDS FOLLOWED BY THE PRE-TAPED MESSAGE. BOTH SHALL SOUND ALTERNATELY IN SEQUENCE UNTIL SILENCED AT THE CONTROL PANEL OR WHEN THE FIRE ALARM PANEL IS RESTORED TO NORMAL. THERE SHALL BE NO MORE THAN A 5 SECOND PAUSE BETWEEN THE ALARM SIGNAL AND THE PRE-TAPED MESSAGE FOR EACH REVOLUTION.
21. UPON ACTIVATION OF ANY MANUAL ALARM OR AUTOMATIC FIRE DETECTION OR SUPPRESSION DEVICE, THE FIRE ALARM SYSTEM SHALL OPERATE ON ALL FLOOR LEVELS.
22. THE SYSTEM SHALL BE DESIGNED SO THE FIRE ALARM SIGNAL AND PRE-TAPED MESSAGE MAY BE TRANSMITTED TO ANY FLOOR WHILE VOICE MESSAGES ARE BEING TRANSMITTED TO OTHER FLOORS. IF THE VOICE INSTRUCTIONS ARE REQUIRED TO BE TRANSMITTED TO ANY FLOOR, THE FIRE ALARM SIGNAL AND PRE-TAPED MESSAGE SHALL AUTOMATICALLY RESTART OR CONTINUE IN THE REQUIRED SEQUENCE AFTER THE VOICE TRANSMISSION IS COMPLETED.
23. THE MICROPHONE FOR THE TRANSMISSION OF VOICE MESSAGES SHALL BE HAND-HELD TYPE WITH A 5 FOOT CABLE. THE CABLE SHALL BE PERMANENTLY CONNECTED AT BOTH ENDS WITH THE MICROPHONE HANGER MOUNTED ON THE FRONT OF THE PANEL.
24. ALARM TONE GENERATORS, PREAMPLIFIERS, POWER AMPLIFIERS AND POWER SUPPLIES SHALL BE CONTINUOUSLY SUPERVISED. BACKUP UNITS SHALL AUTOMATICALLY PROVIDE THE REQUIRED SIGNALING IN THE EVENT OF COMPONENT FAILURE.



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FIRE ALARM
RISER DIAGRAM

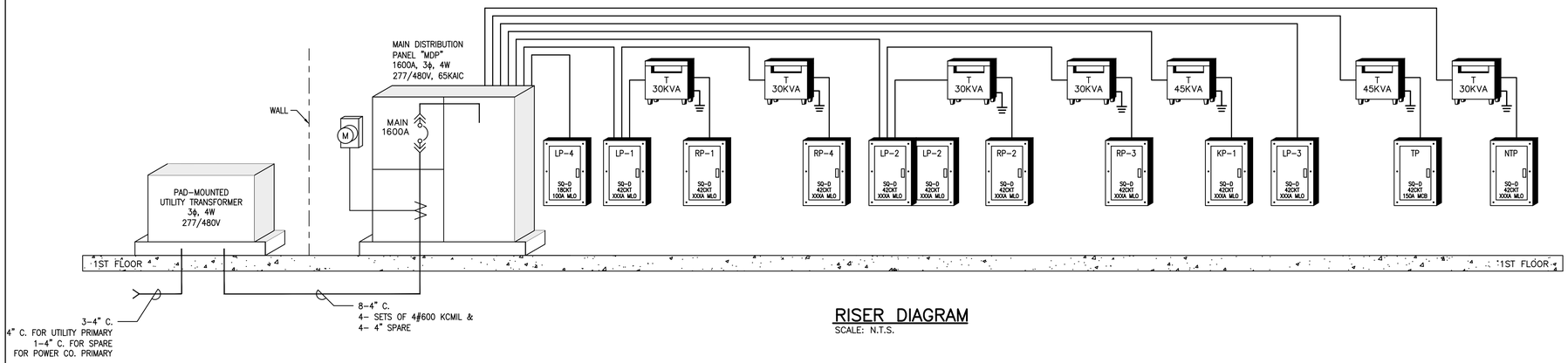
E601

OF SHEETS

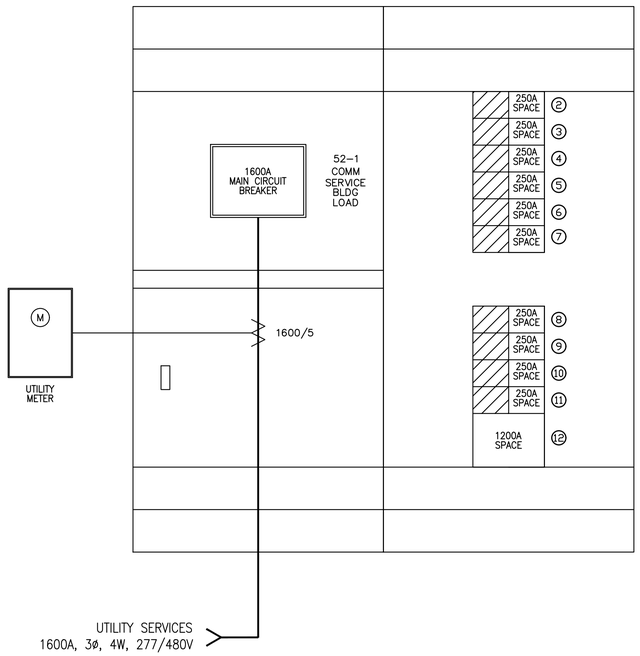
216118

5 4 3 2 1

D C B A

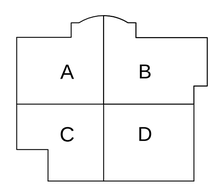


RISER DIAGRAM
SCALE: N.T.S.



SWITCHBOARD "MSB" SCHEDULE

NO.	LOAD	FRAME/TRIP AMPS	TYPE	FEEDER	GND	C"	REMARKS
52-1	COMMERCIAL SERVICE BUILDING LOAD	1600/1600	MASTERPACT NW	BUS	–	–	65KAIC, MICROLOGIC 6.0A
52-2	RTU-1	250/175	POWERPACT JJA	3#2/0	#6	2"	–
52-3	RTU-4	250/100	POWERPACT JJA	3#3	#8	1-1/4"	–
52-4	LP-1	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	–
52-5	LP-2	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	–
52-6	KP-1 (VIA 45KVA TRANSFORMER)	250/80	POWERPACT JJA	3#4	#8	1-1/4"	–
52-7	LP-3	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	–
52-8	LP-4 (OUTDOOR LIGHTING)	250/100	POWERPACT JJA	4#3	#8	1-1/4"	–
52-9	TP	250/–	POWERPACT JJA	–	–	–	–
52-10	NTP	250/–	POWERPACT JJA	–	–	–	–
52-11	PREPARED SPACE	250/–	POWERPACT JJA	–	–	–	–
52-12	PREPARED SPACE	1200/–	XXXXXX	–	–	–	–



KEY PLAN

The McKnight Group
Leaders in Innovative Church Design and Building

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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

DESIGN TECH
DESIGNTECH INC.
Engineering Services
10410 Kensington Parkway, Suite 200
Kensington, MD 20895
Phone: 301 949-2068 • Fax: 301 949-2069
Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
RISER DIAGRAM
POWER

E701

OF SHEETS

216118

5 4 3 2 1

VOLTS: 277/480 **MAIN BREAKER:** 1600A 3P
PHASE: 3 **MINIMUM AIC:** 65 kAIC
WIRE: 4 + G
BUSS: CU **FED FROM:** UTILITY

ITEM/ CIRCUIT	LOAD DESCRIPTION	HP	KW	CIRCUIT BREAKER FRAME	TRIP	POLE	NOTE	LOAD KVA	LOAD AMPS
1	RTU-1			250A	175A	3	3#2/0 + #6G IN 2" C.	134.4	161.7
2	RTU-4			250A	125A	3	3#1 + #6G IN 2" C.	87.7	105.5
3	PANEL LP-1			250A	250A	3	4#250KCMIL + #4G IN 3" C.	172.9	207.9
4	PANEL LP-2			250A	250A	3	4#250KCMIL + #4G IN 3" C.	190.5	229.1
5	PANEL KP-1 (VIA 45KVA XFMR)			250A	80A	3	3#4 + #8G IN 1-1/4" C.	27.2	32.7
6	PANEL LP-3			250A	250A	3	4#250KCMIL + #4G IN 3" C.	90.0	108.2
7	PANEL TP			250A	80A	3	3#4 + #8G IN 1-1/4" C.	36.0	43.3
8	PANEL NTP			250A	50A	3	3#8 + #10G IN 3/4" C.	23.7	28.5
9	PANEL LP-4			250A	100A	3	4#3 + #8G IN 1-1/4" C.	4.0	4.8
10				250A		3			0.0
11				1200A		3			0.0
							CONNECTED LOAD:	766.4	921.9

PANELBOARD SCHEDULE (NEW WORK) — LP-1(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
277/ 480	3	4	-	250A	250A	35,000	RECESSED	1 OF 1

REMARKS
PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	RTU-2	3#8	#10	1"	50A	3	11.06	A	4.99						RTU-7	2
3							11.06	B	4.99	3	20A	3/4"	#12	3#12		4
5							11.06	C	4.99							6
7	FOYER 101						5.00	A	0.50							8
9	FPB-12	4#10	#10	3/4"	25A	3	5.00	B	0.50	3	20A	3/4"	#12	3#12	EF-7	10
11	14KW HEATER						5.00	C	0.50							12
13	FOYER 101						6.33	A								14
15	FPB-14	4#10	#10	3/4"	30A	3	6.33	B		3	20A				SPARE	16
17	18KW HEATER						6.33	C								18
19	PRESCHOOL 179						5.00	A	9.14							20
21	FPB-12	4#10	#10	3/4"	25A	3	5.00	B	9.14	3	45A	1"	#10	3#8	RTU-3	22
23	14KW HEATER						5.00	C	9.14							24
25	SPARE				20A	1		A		1	20A				SPARE	26
27	SPARE				20A	1		B		1	20A				SPARE	28
29	SPARE				20A	1		C		1	20A				SPARE	30
31	SPARE				20A	1		A		1	20A				SPARE	32
33	SPARE				20A	1		B	2.67	1	20A				SECTION B LIGHTING	34
35	SECTION B LIGHTING				20A	1		C	4.08	1	20A				SECTION A LIGHTING	36
37							6.40	A	9.10							38
39	PANEL RP-4	3#8	#10	1"	50A	3	6.32	B	5.27	3	50A	1"	#10	3#8	PANEL RP-1	40
41	VIA 30KVA XFMR						7.21	C	5.76						VIA 30KVA XFMR	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	57.51	56.28	59.08

CONNECTED TOTAL (KVA): 172.87
CONNECTED AMPACITY (A): 207.94

PANELBOARD SCHEDULE (NEW WORK) — LP-2 SEC 1(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
277/ 480	3	4	-	250A	250A	35,000	RECESSED	1 OF 2

REMARKS
PROVIDE EQUIPMENT GROUND BUS
PROVIDE PANELBOARD WITH FEED-THRU LUGS TO SUPPLY 2ND SECTION OF BOARD.

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	RTU-6	3#8	#10	1"	45A	3	9.14	A	5.82						RTU-5	2
3							9.14	B	5.82	3	25A	3/4"	#10	3#10		4
5							9.14	C	5.82							6
7	CLASS 111						2.42	A	2.42						CLASS 110	8
9	FPB-8	4#12	#12	3/4"	20A	3	2.42	B	2.42	3	20A	3/4"	#12	4#12	FPB-8	10
11	7KW HEAT						2.42	C	2.42						7KW HEAT	12
13	CORR 123 / FIN 126						3.56	A	2.75						RECEPTION 115	14
15	VAV-8 / VAV-6	3#12	#12	3/4"	20A	3	3.56	B	2.72	3	20A	3/4"	#12	4#12	FPB-10	16
17	7KW / 3KW HEAT						3.56	C	2.75						8KW HEATER	18
19							0.30	A	1.08						VESTIBULE 113	20
21	EF-8	3#12	#12	3/4"	20A	3	0.30	B	1.08	3	20A	3/4"	#12	3#12	VAV-6	22
23							0.30	C	1.08						3KW HEATER	24
25							0.50	A		1	20A				SPARE	26
27	EF-12	3#12	#12	3/4"	20A	3	0.50	B		1	20A				SPARE	28
29							0.50	C		1	20A				SPARE	30
31	SPARE				20A	1		A		1	20A				SPARE	32
33	SPARE				20A	1		B		1	20A				SPARE	34
35	SECTION D LIGHTING				20A	1	4.13	C	3.39	1	20A				SECTION C LIGHTING	36
37							6.36	A	8.74							38
39	PANEL RP-3	3#8	#10	1"	50A	3	3.79	B	7.56	3	50A	1"	#10	3#8	PANEL RP-2	40
41	VIA 30KVA XFMR						4.04	C	8.54						VIA 30KVA XFMR	42

	A	B	C
TOTAL LOAD SECTION 1 (KVA)	43.09	39.31	48.08
TOTAL LOAD SECTION 2 (KVA)	20.00	20.00	20.00

CONNECTED TOTAL (KVA): 190.48
CONNECTED AMPACITY (A): 229.12

PANELBOARD SCHEDULE (NEW WORK) — LP-2 SEC 2(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
277/ 480	3	4	-	250A	250A	35,000	RECESSED	2 OF 2

REMARKS
PROVIDE EQUIPMENT GROUND BUS
PROVIDE PANELBOARD WITH FEED-THRU LUGS TO SUPPLY 2ND SECTION OF BOARD.

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
43	SEC 148						3.67	A	2.17						AVL 146	44
45	VA V-6 / VA V-8	3#12	#12	3/4"	20A	3	3.67	B	2.17	3	20A	3/4"	#12	3#12	VA V-8	46
47	4KW / 6KW HEATER						3.67	C	2.17						6KW HEATER	48
49	OFF. 141 / CLASS 142						2.67	A	2.42						OFF. 127	50
51	VA V-6 / VA V-6	3#12	#12	3/4"	20A	3	2.67	B	2.42	3	20A	3/4"	#12	4#12	FPB-8	52
53	3.5KW / 3.5KW HEATER						2.67	C	2.42						7KW HEATER	54
55	CONFERENCE 131						2.75	A	6.33						FOYER 101	56
57	FPB-10	4#12	#12	3/4"	20A	3	2.75	B	6.33	3	30A	3/4"	#10	4#10	FPB-14	58
59	8KEW HEATER						2.75	C	6.33						18KW HEATER	60
61	SPARE				20A	1		A		1	20A				SPARE	62
63	SPARE				20A	1		B		1	20A				SPARE	64
65	SPARE				20A	1		C		1	20A				SPARE	66
67	SPARE				20A	1		A		1	20A				SPARE	68
69	SPARE				20A	1		B		1	20A				SPARE	70
71	SPARE				20A	1		C		1	20A				SPARE	72
73	SPARE				20A	1		A		1	20A				SPARE	74
75	SPARE				20A	1		B		1	20A				SPARE	76
77	SPARE				20A	1		C		1	20A				SPARE	78
79	SPARE				20A	1		A		1	20A				SPARE	80
81	SPARE				20A	1		B		1	20A				SPARE	82
83	SPARE				20A	1		C		1	20A				SPARE	84

	A	B	C
TOTAL LOAD PER PHASE (KVA)	20.00	20.00	20.00

CONNECTED TOTAL (KVA): 60.00
CONNECTED AMPACITY (A): 72.17

PANELBOARD SCHEDULE (NEW WORK) — LP-3(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
277/ 480	3	4	-	250A	250A	35,000	RECESSED	1 OF 1

REMARKS
PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	THEATER 171	4#10	#10	3/4"	30A	3	6.33	A	1.83						THEATER 171	2
3	FPB-14						6.33	B	1.83	3	20A	3/4"	#12	3#12	VA V-8	4
5	18KW HEATER						6.33	C	1.83						5 KW HEATER	6
7	WOMEN'S 153						2.17	A	2.17						TEMP CLASS 151 / 152	8
9	VA V-8	3#12	#12	3/4"	20A	3	2.17	B	2.17	3	20A	3/4"	#12	3#12	VA V-6 / VA V-6	10
11	6KW HEATER						2.17	C	2.17						3KW / 3KW HEATER	12
13	TODDLERS 168						3.75	A	3.75						INFANTS 164	14
15	VA V-10	4#12	#12	3/4"	20A	3	3.75	B	3.75	3	20A	3/4"	#12	4#12	FPB-10	16
17	11KW HEATER						3.75	C	3.75						11KW HEATER	18
19	WOMEN'S 160						2.50	A	3.75						YOUTH LOUNGE 158	20
21	VA V-8	3#12	#12	3/4"	20A	3	2.50	B	3.75	3	20A	3/4"	#12	4#12	FPB-10	22
23	7KW HEATER						2.50	C	3.75						11KW HEATER	24
25	ELEM CLASS						3.75	A								26
27	FPB-10	3#12	#12	3/4"	20A	3	3.75	B		3					SPACE	28
29	11KW HEATER						3.75	C								30
31								A								32
33	SPACE					3		B		3					SPACE	34
35								C								36
37	PANEL TP							A								38
39	VIA 45KVA	3#8	#10	1"	50A	3		B		3	50A	1"	#10	3#8	PANEL NTP	40
41	K-13 XFMR							C							VIA 45KVA XFMR	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	30.00	30.00	30.00

CONNECTED TOTAL (KVA): 89.99
CONNECTED AMPACITY (A): 108.25

PANELBOARD SCHEDULE (NEW WORK) — RP-1(N)

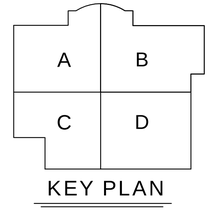
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	100A	-	225A	10,000	SURFACE	1 OF 1

REMARKS
PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	AUD 140/47/50 CONV REC	2#12	#12	3/4"	20A	1	1.44	A	1.58	1	20A	3/4"	#12	2#12	WF/RM 153/54/55 GFCI	2
3	FOYER 101 CONV REC	2#12	#12	3/4"	20A	1	1.08	B	0.25	1	20A	3/4"	#12	2#12	FOYER 101 FIREPLACE REC	4
5	RM 169/70 CONV REC	2#12	#12	3/4"	20A	1	1.80	C	0.36	1	20A	3/4"	#12	2#12	RM 169 CONV REC	6
7	RM 176/79 CONV REC	2#12	#12	3/4"	20A	1	1.44	A	0.50	1	20A	3/4"	#12	2#12	RM 179 DED GFCI	8
9	RM 179 DED GFCI	2#12	#12	3/4"	20A	1	0.50	B	0.90	1	20A	3/4"	#12	2#12	TODDLERS 168 CONV REC	10
11	TODDLERS 168 GFCI	2#12	#12	3/4"	20A	1	0.18	C	0.18	1	20A	3/4"	#12	2#12	INFANTS 164 GFCI	12
13	CLASS 151 CONV REC	2#12	#12	3/4"	20A	1	0.90	A	1.08	1	20A	3/4"	#12	2#12	CLASS 152 CONV REC	14
15	PRESCH 171 CONV REC	2#12	#12	3/4"	20A	1	1.62	B	0.02	1	20A	3/4"	#12	2#12	RR 177 EF-4	16
17	CORR 178	2#12	#12	3/4"	20A	2	1.00	C	1.00	2	20A	3/4"	#12	2#12	ELE 174	18
19	UNIT HEATER A						1.00	A	1.00						UNIT HEATER A	20
21	SPRINK 175	2#12	#12	3/4"	20A	2	1.00	B	1.00	2	20A	3/4"	#12	2#12	VESTIBULE 100	22
23	UNIT HEATER A						1.00	C	1.00						UNIT HEATER A	24
25	RR 165 EF-5	2#12	#12	3/4"	20A	1	0.02	A	0.50	1	20A	3/4"	#12	2#12	JAN 154 WH AND RECIRC	26
27	FAA VESTIBULE 100	2#12	#12	3/4"	20A	1	0.40	B	0.36	1	20A	3/4"	#12	2#12	ELEC 174 CONV REC	28
29	RM 164/68/71 AUTO REC	2#12	#12	3/4"	20A	1	1.44	C	0.72	1	20A	3/4"	#12	2#12	CLASS 151/52 AUTO REC	30
31	CLASS 179 AUTO REC	2#12	#12	3/4"	20A	1	0.54	B	0.36	1	20A	3/4"	#12	2#12	OUTDOOR GFCI DUP	32
33	OUTDOOR GFCI DUP	2#12	#12	3/4"	20A	1	0.36	C	0.52	1	20A	3/4"	#12	2#12	EX FAN EF-9/10/13	34
35	EX FAN EF-12	2#12	#12	3/4"	20A	1	0.16	A		1	20A				SPARE	36
37	SPARE				20A	1		B		1	20A				SPARE	38
39	SPARE				20A	1		C		1	20A				SPARE	40
41	ROOFTOP GFCI/LTS	2#12	#12	3/4"	20A	1	0.18	C	0.18	1	20A	3/4"	#12	2#12	ROOFTOP GFCI/LTS	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	9.10	5.27	5.76

CONNECTED TOTAL (KVA): 20.13
CONNECTED AMPACITY (A): 55.87



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Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

PANEL SCHEDULES

E801

OF SHEETS

216118

5 4 3 2 1
D C B A

PANELBOARD SCHEDULE (NEW WORK) — RP-4(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	100A	-	225A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	RMS 163/64 CONV REC	2#12	#12	3/4"	20A	1	1.44	A	1.08	1	20A	3/4"	#12	2#12	CORR 162 CONV REC	2
3	RMS 156/58 CONV REC	2#12	#12	3/4"	20A	1	1.44	B	0.50	1	20A	3/4"	#12	2#12	CORR 162 WTR FNT	4
5	RR 159/60 GFCI REC	2#12	#12	3/4"	20A	1	1.08	C	0.72	1	20A	3/4"	#12	2#12	CRIBS 161 CONV REC	6
7	SIDE 137/38 CONV REC	2#12	#12	3/4"	20A	1	1.08	A	1.80	1	20A	3/4"	#12	2#12	STAGE WHL CHAIR LIFT	8
9	CORRIDOR 162	2#12	#12	3/4"	20A	2	1.00	B	0.05	1	20A	3/4"	#12	2#12	STAGE STEP LIGHTS	10
11	UNIT HEATER A						1.00	C	0.90	1	20A	3/4"	#12	2#12	RM 156/58 AUTO REC	12
13	OUTDOOR GFCI DUP	2#12	#12	3/4"	20A	1	0.54	A	0.46	1	20A	3/4"	#12	2#12	EX FAN EF-7	14
15	SPARE				20A	1		B		1	20A				SPARE	16
17	SPARE				20A	1		C		1	20A				SPARE	18
19	SPARE				20A	1		A		1	20A				SPARE	20
21	SPARE				20A	1		B		1	20A				SPARE	22
23	SPARE				20A	1		C		1	20A				SPARE	24
25	SPARE				20A	1		A		1	20A				SPARE	26
27	SPARE				20A	1		B		1	20A				SPARE	28
29	SPARE				20A	1		C		1	20A				SPARE	30
31	SPARE				20A	1		A		1	20A				SPARE	32
33	SPARE				20A	1		C		1	20A				SPARE	34
35	SPARE				20A	1		A		1	20A				SPARE	36
37							3.33	B		1	20A				SPARE	38
39	BAPTISTRY	4#6	#10	1"	60A	3	3.33	C		1	20A				SPARE	40
41							3.33	C	0.18	1	20A	3/4"	#12	2#12	ROOFTOP GFCI/LTS	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	6.40	6.32	7.21

CONNECTED TOTAL (KVA)	19.93
CONNECTED AMPACITY (A)	55.33

PANELBOARD SCHEDULE (NEW WORK) — RP-2(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	100A	-	225A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	CLASS 110/111 REC	2#12	#12	3/4"	20A	1	1.44	A	1.40	1	20A	3/4"	#12	2#12	JAN 183/MEN 144 GFCI REC	2
3	CORR 123 REC	2#12	#12	3/4"	20A	1	1.26	B	1.80	1	20A	3/4"	#10	2#10	RM 115/17/18/25 CONV REC	4
5	OFC 115/17/18/26 WKST REC	2#12	#12	3/4"	20A	1	1.60	C	1.60	1	20A	3/4"	#12	2#12	RM 115/26 WKST REC	6
7	RM 118/21 GFCI REC	2#12	#12	3/4"	20A	1	0.72	A	0.50	1	20A	3/4"	#12	2#12	RM 119 DED REC	8
9	RM 119 DED REC	2#12	#12	3/4"	20A	1	0.50	B	0.50	1	20A	3/4"	#12	2#12	RM 119 DED REC	10
11	RM 119 COPIER	2#12	#12	3/4"	20A	1	1.00	C	1.00	1	20A	3/4"	#12	2#12	OFC 141 COPIER	12
13	OFC 141 WKST REC	2#12	#12	3/4"	20A	1	1.60	A	1.08	1	20A	3/4"	#12	2#12	CLASS 142 TV/REC	14
15	SEC 148 REC	2#12	#12	3/4"	20A	1	0.75	B	1.80	1	20A	3/4"	#12	2#12	RECEPTION 101 DESK REC	16
17	AUD 140/145 CONV REC	2#12	#12	3/4"	20A	1	0.72	C	1.26	1	20A	3/4"	#12	2#12	RM 100/04 CONV REC	18
19	VESTIBULE 113	2#12	#12	3/4"	20A	2	1.00	A	1.00	1	20A	3/4"	#12	2#12	BOOK 104 ROLLUP DOOR	20
21	UNIT HEATER A						1.00	B	0.72	1	20A	3/4"	#12	2#12	RMS 110/11 AUTO REC	22
23	VESTIBULE 100	2#12	#12	3/4"	20A	2	1.00	C	1.62	1	20A	3/4"	#12	2#12	RM 115/16/17/19 AUTO REC	24
25	UNIT HEATER A						1.00	A	1.08	1	20A	3/4"	#12	2#12	RM 126/41/42 AUTO REC	26
27	EXTERIOR DUP GFCI	2#12	#12	3/4"	20A	1	0.72	B	0.90	1	20A	3/4"	#12	2#12	SEC 105 REC	28
29	SEC 105 DED QUAD	2#12	#12	3/4"	20A	1	0.36	C	0.72	1	20A	3/4"	#12	2#12	BOOK 104 REC	30
31	SPARE				20A	1		B	0.95	1	20A	3/4"	#12	2#12	EX FAN EF-8 /EF-11	32
33	SPARE				20A	1		C		1	20A				SPARE	34
35	SPARE				20A	1		A		1	20A				SPARE	36
37	SPARE				20A	1		B		1	20A				SPARE	38
39	SPARE				20A	1		C	0.50	1	20A	3/4"	#12	2#12	VEST 113 ACCESS CNTRL	40
41	VEST 100 ACCESS CNTRL	2#12	#12	3/4"	20A	1	1.00	C	0.36	1	20A	3/4"	#12	2#12	ROOFTOP GFCI/LTS	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	8.74	7.56	8.54

CONNECTED TOTAL (KVA)	24.84
CONNECTED AMPACITY (A)	68.95

PANELBOARD SCHEDULE (NEW WORK) — RP-3(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	100A	-	225A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	OFC 126/27 WKST REC	2#12	#12	3/4"	20A	1	1.26	A	1.60	1	20A	3/4"	#10	2#10	AUD 140/145 CONV REC	2
3	RM 123/27/30/31 CONV REC	2#12	#12	3/4"	20A	1	1.44	B	0.90	1	20A	3/4"	#12	2#12	CONF 131 TBL/MON REC	4
5	CONF 131 DED GFCI	2#12	#12	3/4"	20A	1	0.50	C	0.50	1	20A	3/4"	#12	2#12	CONF 131 DED GFCI	6
7	GRN 132 CONV REC	2#12	#12	3/4"	20A	1	0.72	A	0.50	1	20A	3/4"	#12	2#12	GRN 132 DED GFCI	8
9	GRN 132 DED GFCI	2#12	#12	3/4"	20A	1	0.50	B	0.54	1	20A	3/4"	#12	2#12	SIDE 135 CONV REC	10
11	CORRIDOR 123	2#12	#12	3/4"	20A	2	1.00	C	0.06	1	20A	3/4"	#12	2#12	RR 118/19/28 EF-6/EF-3/EF-2	12
13	UNIT HEATER A						1.00	A	0.02	1	20A	3/4"	#12	2#12	RR 134 EF-1	14
15	STAGE STEP LIGHT	2#12	#12	3/4"	20A	1	0.05	B	0.36	1	20A	3/4"	#12	2#12	OFF 130 WKST REC	16
17	RM 126/27/30 AUTO REC	2#12	#12	3/4"	20A	1	1.08	C	0.36	1	20A	3/4"	#12	2#12	CONF 131 AUTO REC	18
19	RM 127 CONV REC	2#12	#12	3/4"	20A	1	0.54	A	0.72	1	20A	3/4"	#12	2#12	OUTDOOR GFCI DUP	20
21	AUD 140 FLR REC	2#12	#12	3/4"	20A	1	0.36	B		1	20A				SPARE	22
23	SPARE				20A	1		C		1	20A				SPARE	24
25	SPARE				20A	1		A		1	20A				SPARE	26
27	SPARE				20A	1		B		1	20A				SPARE	28
29	SPARE				20A	1		C		1	20A				SPARE	30
31	SPARE				20A	1		A		1	20A				SPARE	32
33	SPARE				20A	1		B		1	20A				SPARE	34
35	SPARE				20A	1		C		1	20A				SPARE	36
37	SPARE				20A	1		A		1	20A				SPARE	38
39	SPARE				20A	1		B		1	20A				SPARE	40
41	123/127/140 ACCESS CNTRL				20A	1		C	0.54	1	20A	3/4"	#12	2#12	ROOFTOP GFCI/LTS	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	6.36	3.79	4.04

CONNECTED TOTAL (KVA)	14.19
CONNECTED AMPACITY (A)	39.39

PANELBOARD SCHEDULE (NEW WORK) — KP-1(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	150A	-	225A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE EQUIPMENT GROUND BUS

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	KITCHEN REF/FREEZER	2#12	#12	3/4"	20A	1	0.65	A	1.50	1	20A	3/4"	#12	2#12	KITCHEN MBL WRM CART	2
3	KITCHEN REF/FREEZER	2#12	#12	3/4"	20A	1	0.65	B	0.65	1	20A	3/4"	#12	2#12	KITCHEN REF/FREEZER	4
5	KITCHEN DISHWASHER	2#12	#12	3/4"	20A	1	1.85	C	1.85	1	20A	3/4"	#12	2#12	KITCHEN DISHWASHER	6
7	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	A	1.00	1	20A	3/4"	#12	2#12	KITCHEN CNTR GFCI	8
9	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	B	1.00	1	20A	3/4"	#12	2#12	KITCHEN CNTR GFCI	10
11	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	C	1.00	1	20A	3/4"	#12	2#12	KITCHEN CNTR GFCI	12
13	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	A	0.72	1	20A	3/4"	#12	2#12	KITCHEN CONV REC	14
15	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	B	0.18	1	20A	3/4"	#12	2#12	KITCHEN FRYER	16
17	KITCHEN DBL OVEN	2#12	#12	3/4"	20A	1	1.85	C	0.48	1	20A	3/4"	#12	2#12	KITCHEN RANGE/OVEN	18
19	KITCHEN CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	A	1.00	1	20A	3/4"	#12	2#12	KITCHEN CNTR GFCI	20
21	CAFÉ REGISTER	2#12	#12	3/4"	20A	1	0.18	B	0.18	1	20A	3/4"	#12	2#12	CAFÉ REGISTER	22
23	CAFÉ CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	C	1.80	1	20A	3/4"	#12	2#12	CAFÉ BLENDER	24
25	CAFÉ CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	A	1.78	2	20A	3/4"	#12	2#12	CAFE COFFEE MAKER	26
27	CAFÉ BLENDER	2#12	#12	3/4"	20A	1	1.80	B	1.78							28
29	CAFÉ CNTR GFCI	2#12	#12	3/4"	20A	1	1.00	C	1.00	1	20A	3/4"	#12	2#12	CAFÉ CNTR GFCI	30
31	CAFÉ TV/MONITORS	2#12	#12	3/4"	20A	1	0.36	B	1.00	1	20A	3/4"	#12	2#12	CAFÉ CNTR GFCI	32
33	CAFÉ CONV REC	2#12	#12	3/4"	20A	1	0.18	C	1.27	2	20A	3/4"	#12	2#12	CAFE COFFEE MAKER	34
35	CAFE DISPLAY CASE	2#12	#12	3/4"	20A	1	0.65	A	1.27							36
37	EXH HOOD LTS	2#12	#12	3/4"	20A	1	0.30	B	1.80	1	20A	3/4"	#12	2#12	EXH HOOD CONTROL PNL	38
39	KITCHEN EXH HOOD						0.73	C	1.00						EXHAUST HOOD	40
41	EXHAUST FAN	3#12	#12	3/4"	20A	3	0.73	A	1.00	3	20A	3/4"	#12	3#12	MAKE UP AIR UNIT	42
43	KEF-1						0.73	B	1.00						MAU-1	44
45	SPARE				20A	1		C		1	20A				SPARE	46
47	SPARE				20A	1		A		1	20A				SPARE	48
49	SPARE				20A	1		B		1	20A				SPARE	50
51	SPARE				20A	1		C		1	20A				SPARE	52
53	SPARE				20A	1		A		1	20A				SPARE	54

	A	B	C
TOTAL LOAD PER PHASE (KVA)	9.79	7.94	9.48

CONNECTED TOTAL (KVA)	27.21
CONNECTED AMPACITY (A)	75.53

PANELBOARD SCHEDULE (NEW WORK) — TP(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	150A	-	225A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE GROUND BAR AND ISOLATED GROUND BAR.
ALL BRANCH CIRCUITS SHALL BE SUPPLIED WITH A GROUND (GREEN) AND AN ISOLATED GROUND CONDUCTOR (GREEN/YELLOW).

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	PLATFORM BAND REC	2#12	#12	3/4"	20A	1	1.60	A	1.20	1	20A	3/4"	#12	2#12	PLATFORM BAND REC	2
3	PLATFORM BAND REC	2#12	#12	3/4"	20A	1	0.80	B	0.20	1	20A	3/4"	#12	2#12	AVL SOUND BOARD	4
5	AVL CAMERA	2#12	#12	3/4"	20A	1	0.70	C	0.45	1	20A	3/4"	#12	2#12	AVL TVS	6
7	AVL VIDEO SWITCHER	2#12	#12	3/4"	20A	1	0.70	A	1.00	1	20A	3/4"	#12	2#12	AVL COMPUTER	8
9	AVL COMPUTER/BOARD	2#12	#12	3/4"	20A	1	0.50	B	1.00	1	20A	3/4"	#12	2#12	SIDE CONSTANT NETWK	10
11	SIDE WIRELESS MICS	2#12	#12	3/4"	20A	1	1.00	C	1.00	1	20A	3/4"	#12	2#12	AMP 1	12
13	SIDE 70 VOLT AMP	2#12	#12	3/4"	20A	1	1.00	A	1.92	1	20A	3/4"	#12	2#12	VIDEO SWITCHER	14
15	JBL ARRAY BOXES	2#12	#12	3/4"	20A	1	1.60	B	1.60	1	20A	3/4"	#12	2#12	JBL ARRAY BOXES	16
17	SIDE SPARE	2#12	#12	3/4"	20A	1	1.60	C	1.60	1	20A	3/4"	#12	2#12	OFFICE TVS	18
19	LOBBY TVS	2#12	#12	3/4"	20A	1	0.85	A	0.45	1	20A	3/4"	#12	2#12	CAFÉ TVS	20
21	CORRIDOR TVS	2#12	#12	3/4"	20A	1	0.68	B	0.90	1	20A	3/4"	#12	2#12	AUDITORIUM PROJECTOR	22
23	AUDITORIUM PROJECTOR	2#12	#12	3/4"	20A	1	0.90	C	0.90	1	20A	3/4"	#12	2#12	AUDITORIUM PROJECTOR	24
25	AUDITORIUM PROJECTOR	2#12	#12	3/4"	20A	1	0.90	A	0.90	1	20A	3/4"	#12	2#12	AUDITORIUM PROJECTOR	26
27	GREEN ROOM TV	2#12	#12	3/4"	20A	1	0.23	B	0.68	1	20A	3/4"	#12	2#12	RECEPTION TV	28
29	CLASSROOM TV	2#12	#12	3/4"	20A	1	0.23	C	1.60	1	20A	3/4"	#12	2#12	JBL ARRAY BOXES	30
31	JBL ARRAY BOXES	2#12	#12	3/4"	20A	1	1.60	A	1.92	1	20A	3/4"	#12	2#12	JBL SUBS	32
33	JBL SUBS	2#12	#12	3/4"	20A	1	1.92	B	1.92	1	20A	3/4"	#12	2#12	JBL SUBS	34
35	SPARE				20A	1		C		1	20A				SPARE	36
37	SPARE				20A	1		A		1	20A				SPARE	38
39	SPARE				20A	1		B		1	20A				SPARE	40
41	SPARE				20A	1		C		1	20A				SPARE	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	14.04	12.02	9.98

CONNECTED TOTAL (KVA)	36.03
CONNECTED AMPACITY (A)	100.01

PANELBOARD SCHEDULE (NEW WORK) — NTP(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 208	3	4	100A	-	100A	10,000	SURFACE	1 OF 1

REMARKS

PROVIDE EQUIPMENT GROUND BUS.

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	AVL LIGHTING BOARD	2#12	#12	3/4"	20A	1	0.35	A	1.60	1	20A	3/4"	#12	2#12	SIDE THEATER LTS	2
3	PLATFORM THEATER LTS	2#12	#12	3/4"	20A	1	0.90	B	0.60	1	20A	3/4"	#12	2#12	PLATFORM THEATER LTS	4
5	PLATFORM THEATER LTS	2#12	#12	3/4"	20A	1	0.60	C	1.10	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	6
7	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	1.10	A	1.10	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	8
9	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	1.10	B	1.10	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	10
11	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	1.10	C	1.10	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	12
13	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	0.90	A	0.90	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	14
15	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	0.90	B	1.20	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	16
17	AUDIT. THEATER LTS	2#12	#12	3/4"	20A	1	1.20	C	1.20	1	20A	3/4"	#12	2#12	AUDIT. THEATER LTS	18
19	SPARE				20A	1		A		1	20A				SPARE	20
21	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.81	B	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	22
23	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.68	C	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	24
25	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.95	A	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	26
27	SPARE				20A	1		B		1	20A				SPARE	28
29	SPARE				20A	1		C		1	20A				SPARE	30
31	SPARE				20A	1		A		1	20A				SPARE	32
33	SPARE				20A	1		B		1	20A				SPARE	34
35	SPARE				20A	1		C		1	20A				SPARE	36
37	SPARE				20A	1		A		1	20A				SPARE	38
39	SPARE				20A	1		B		1	20A				SPARE	40
41	SPARE				20A	1		C		1	20A				SPARE	42

	A	B	C
TOTAL LOAD PER PHASE (KVA)	7.98	7.69	8.06

CONNECTED TOTAL (KVA)	23.72
CONNECTED AMPACITY (A)	65.84

PANELBOARD SCHEDULE (NEW WORK) — INVERTER EMERGENCY LIGHTS(N)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	BUS AMPS	AIC	MOUNTING	SECTIONS
120/ 240	1	3	-	-	-	-	-	-

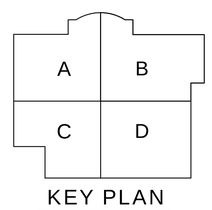
REMARKS

DISTRIBUTION PANEL IS PROVIDED INTEGRAL TO THE EMERGENCY LIGHTING INVERTER "EM INV".
SEE INVERTER INSTALLATION MANUAL FOR FURTHER CIRCUIT BREAKER CONNECTION INFORMATION.

CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK TRIP	CKT. BRK P	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK P	CKT. BRK TRIP	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #
1	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.81	A	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	2
3	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.68	B	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	4
5	AUDIT. HOUSE LTS	2#12	#12	3/4"	20A	1	0.95	A	1.08	1	20A	3/4"	#12	2#12	AUDIT. HOUSE LTS	6
7	SPARE				20A	1		B		1	20A				SPARE	8
9	SPARE				20A	1		A		1	20A				SPARE	10
11	SPARE				20A	1		B	0.40	1	20A	3/4"	#12	2#12	INSPIRE EXT. CONT. BOX	12

	A	B
TOTAL LOAD PER PHASE (KVA)	3.92	2.16

CONNECTED TOTAL (KVA)	6.07
CONNECTED AMPACITY (A)	25.29



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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

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NEW BUILDING FOR:
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DRAWING	DATE
☐ DD MEETING #1	07/16/2019
☐ DD MEETING #2	09/06/2019
☐ DD MEETING #3	10/06/2023
☐ BID SET	11/15/2023
☒ AVL COORD / BID SET	12/08/2023
☐ PERMIT SET	

REVISIONS/ADDENDUMS

PANEL SCHEDULES

E802

OF SHEETS

216118

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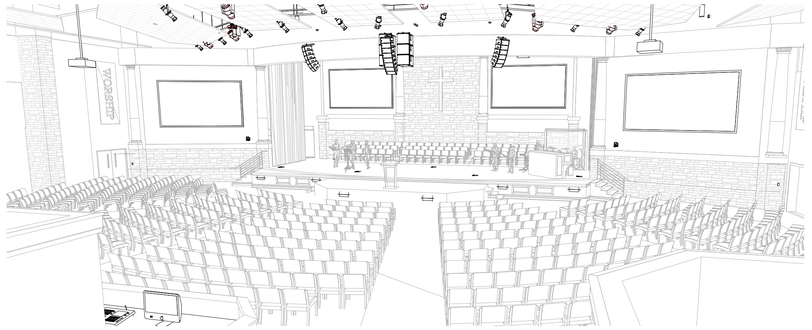
D C B A

GALILEE BAPTIST CHURCH

Audio, Video, and Theatrical Lighting Systems Integration



1 Cover

SHEET LIST		
SHEET NUMBER	SHEET NAME	CURRENT REVISION DATE
AV-0.0	PROJECT TITLE AND SHEET INDEX	
AV-0.1	DIVISION OF LABOR	01/23/24
AV-0.2	ELECTRICAL COODINATION & SYMBOLS	
AV-0.3	ELECTRICAL & GROUNDING COORDINATION	
AV-1.1	FLOOR PLAN	01/23/24
AV-1.2	CEILING PLAN	01/23/24
AV-1.3	AUDITORIUM RCP (Weights & Dimensions)	01/23/24
AV-1.4	AUDITORIIUM CEILING PLAN UNISTRUT LOCATIONS	01/23/24
AV-1.5	AUDITORIUM HOUSE LIGHTS	
AV-1.6	AUDITROIUM HOUSE LIGHTS DATA	
AV-2.1	TV ELEVATIONS (1)	
AV-2.2	TV ELEVATIONS (2)	
AV-2.3	TV ELEVATIONS (3)	
AV-2.4	TV ELEVATIONS (4)	01/23/24
AV-3.1	ELEVATIONS (1)	
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AV-4.1	ENLARGED VIEWS (1)	
AV-4.2	ENLARGED VIEWS (2)	01/23/24
AV-5.1	SPEAKER DETAILS	01/23/24
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AV-5.3	PROJECTION SCREEN DETAILS	
AV-5.4	THEATRICAL LIGHTING SUSPENSION & FLOOR BOX DETAILS	
AV-6.1	TP POWER SCHEDULE	01/23/24
AV-6.2	NTP POWER SCHEDULE	
AV-6.3	POWER RELAYS	01/23/24
AV-6.4	BACK BOX SCHEDULE	01/23/24
AV-6.5	WORSHIP CONDUIT FLOWCHART	01/23/24
AV-7.1	CUSTOM PLATES TO BE RELEASED AT LATER DATE	
AV-7.2	RACK ELEVATIONS	
AV-7.3	AUDIO SIGNAL FLOW (1 OF 4)	
AV-7.4	AUDIO SIGNAL FLOW (2 OF 4)	
AV-7.5	AUDIO SIGNAL FLOW (3 OF 4)	
AV-7.6	AUDIO SIGNAL FLOW (4 OF 4)	
AV-7.7	VIDEO SIGNAL FLOW	
AV-7.8	THEATRICAL LIGHTING SIGNAL FLOW	
AV-7.9	INTERCOM SIGNAL FLOW	
AV-7.10	ALL SIGNAL FLOW	
AV-7.11	THEATRICAL LIGHTING PLOT (1 OF 2)	
AV-7.12	THEATRICAL LIGHTING PLOT (2 OF 2)	
AV-8.1	WIRE PULL CHART	
AV-9.1	ACOUSTICS (1 OF x) TO BE RELEASED AT LATER DATE	

Changes are Clouded and marked Delta "A".

AV-0.0 - notice 3D view for site lines of new arrays and subs.
AV-1.0 - change scope from EC to GC - Unistrut
AV-1.1 - Added (2) TV locations the EE told me about before your church meeting on site.
AV-1.2 - Change speaker system - Added (5) circuits for new system and moved (2) circuits from side stage to ceiling. Adjust lighting bar angle/locations (LP-2)
AV-1.3 - Change speaker system loads and locations. Adjust lighting bar angle/locations (LP-2)
AV-1.4 - Change speaker system unistrut and locations. Adjust lighting bar angle/locations (LP-2)
AV-2.4 - add (2) TV elevations
AV-3.1 - no clouded - but elevations are up to date
AV-4.2 - update front fill details and cut sheet
AV-5.1 - Update all Speaker details
AV-6.1 - Added (6) total circuits
AV-6.3 - Re-allocate circuits on Lyntec based on speaker change
AV-6.4 - Add (2) TV junction boxes
AV-6.5 - Add (2) TV junction boxes

FYI - (6) JBL 906 per circuit, (2) 918 per circuit

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TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

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CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE

PROJECT TITLE AND SHEET INDEX

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/10/23

SHEET NUMBER

AV-0.0

DIVISION OF LABOR

		GC	EC	AVC	OWNER
1	Bring in AVL into overall design and construction schedule as early as possible.	X			
2	Give owner clear description of what is and is not included in AVL pre-con phase. Define where pre-con phase stops and integration phase begins.			X	
3	Stamp pre-con drawings "NOT FOR CONSTRUCTION". – Full AV Drawings pending contract approval			X	
4	Discuss with owner that AV 100% construction drawings should be done prior to slab pour.				
5	Create and submit Gannt chart with AVL install details.			X	
6	Create payment schedule showing materials draw, including long lead time items.			X	
7	Submit narrative project schedule with major milestones and owner responsibilities.			X	
8	Integrate AV Gannt chart into overall construction schedule and distribute to other trades.	X			
9	Provide all weight loads which will be placed onto roof structure. (This refers to support points, mainly for heavy items such as loudspeakers, theatrical light bars, and led walls.)			X	
10	Furnish and install approved structural steel support for AV weight loads. (In coordination with and approved by GC's structural engineer).	X			
11	Furnish and install rigging to structure to attach to structural steel components. This includes lighting truss/pipe, all thread, beam clamps, hangers etc. Unless otherwise noted in AV Drawings.			X	
12	Furnish and install unistrut as noted in AV Drawings	X			
13	Design, furnish, and install acoustic wall panels and ceiling treatments, if applicable.			X	
14	Furnish, install, and terminate all high voltage wiring for AVL system.		X		
15	Furnish and install all tech power(TP) and non tech power circuits(NTP) for AVL system.		X		
16	Furnish and install Lyntec relay panel(s) and key switch as specified on AV drawings.		X		
17	Furnish and install all low voltage wiring for AVL systems. Unless specifically noted per #33. (Coordinate with architect for all exposed wire colors.)			X	
18	Furnish and install conduit and/or raceway for all AVL low voltage wiring. In lieu of conduit, free wire cable using plenum wire where required. Coordinate with AV contractor and GC any changes to conduit required from this set.		X		
19	Furnish and install pull strings in all conduit.		X		
20	Label all low voltage wiring for AVL system according to AV drawings.			X	
21	Provide written test report that all low voltage wire is installed properly for continuity per design.			X	
22	Terminate all low voltage wiring for AVL system.			X	
23	Furnish rough-in backboxes for stage floor boxes.			X	
24	Install rough-in backboxes for stage floor boxes.		X		
25	Furnish and install junction boxes per AV drawings.		X		
26	Furnish, install, and terminate all AVL connection plates.			X	
27	Furnish and install all loudspeakers including suspended, flush mount and surface mount.			X	
28	Furnish and install light bars/lighitng grids.			X	
29	Furnish and install TVs for Lobby/Distributed locations.			X	
30	Provide training on all new AVL systems installed by AV contractor.			X	
31	Design, specify, and furnish fully dimmable DMX led house lighting fixtures and remote wall stations. Include photometrics report. Provide integrated systems which can fully communicate with stage lighting control system.			X	
32	Provide EC with placement details for each house lighting fixtures.			X	
33	Install house light fixtures. This includes all required mounting/rigging to ceiling. Bag fixtures during construction. Remove bags immediately prior to commissioning.		X		
34	Provide, install, and terminate low voltage control cable between house lighting fixtures.			X	
35	Provide temporary construction switching for house lights prior to final commissioning. (AV Contractor to assist EC)		X		
36	Commission and program house light system(s) provided by AV contractor.			X	
37	Provide convenience lighting over stage in sanctuary.			X	
38	Verify that emergency house lighting has been specified by architect.	X			
39	Furnish and install emergency egress lighting.		X		
40	Furnish and install shunt-trip breaker to fire alarm which disables audio system in the event of fire alarm activation. (EC shall furnish and install low voltage signal from the sound system to the fire alarm panel. The Lyntec panel has relay built in which controls and allows the fire alarm signal to deactivate the system.)		X		
41	Provide testing to demonstrate fire alarm/audio shut-off procedure for final inspection.		X	X	
42	Provide verification that site is ready for AVL installation. This includes written checklist and photos.	X			
43	Approve for order acoustic treatments colors 16 weeks before install, If applicable.				X
44	Approve for order all color/finish choices for speakers, lights, screen housings, projectors etc, 4 months before install.				X
45	Approve for order any remaining avl equipment 12 weeks before install.				X

A

Change from EC to GC

SYSTEM COMMISSIONING GUIDELINES

AVL System final installation, specifically the commissioning process, requires 2 weeks after other trades are complete and building is empty. Some aspects of the AVL installation can occur simultaneously, and be coordinated with other trades. However, the final installation has a very specific set of criteria as mentioned in these drawings, in the AVL contract, and in the AVL quotes. This final phase of the installation includes tuning, balancing, calibration, programming, and client training. These portions of the installation can only be done with the room unoccuupied - all other trades must be 100% complete and out of the facility. As such, any scheduling for the first use of the new AVL systems, must take this coordination into account.

GC CHECKLIST FOR CSD COMMISSIONING

	INITIAL
CSD Project manager must be notified 60 days prior to needing system commissioning.	
No part of this system shall be commissioned without the knowledge of CSD.	
Environment is dust-free.	
Other trades (with work related to audio/visual/lighting systems) are complete.	
All rooms pertaining to AVL equipment (sound booth, amp room, etc) are complete.	
Sound booth counter is installed, if gap is not provided, pass through grommets are in place.	
Seating within sanctuary/auditorium is installed.	
All branched circuits are installed in back boxes as specified in plans.	
All appropriate personnel are scheduled and available for training.	

GENERAL NOTES:

*The exact location of all audio/video/theatrical lighting devices shall be coordinated with the Owner, Architect and AVL system designer. The locations specified here are based on preliminary facility designs.

*The overall AVL system requires extensive conduit to be furnished and installed by the electrical contractor per the specifications contained within this drawing set. If site conditions prevent conduit to be installed for any particular system(s), or if any conduit is deleted by the electrical contract, the electrical contractor shall (at no additional cost) furnish and install all plenum wire that is to be contained within said conduit.

*Work by other trades is an additional cost to the client over and above the AV contractor's bid and scope. The cost of these provisions are not covered by the AV contractor.

*The "AV" Series drawings are an integral part of an overall facility design and are not to be considered as structural or mechancial engineering documents, but are intended to convey elements of the auditorium in potential design and consideration. For electrical construction issues, refer to the construction documents provided by the registered electrical engineer. For structural issues, refer to the structural construction documents provided by the registered structural engineer.

*This drawing set provides 1) scope of work guidelines for the other trades and subcontractors involved, 2) information and intent for other design professionals to use while developing their designs (low voltage conduit, structural weights, electrical intent, etc) and 3) low voltage wiring scheme. Since this drawing set provides intent and information only, a PE stamp is not provided. If the city, county, state or others require a PE stamp on any portion of these drawings, the owner is responsible for any additional fees.

Structural engineering review and/or stamping not included in CSD's scope of work. If it's required, owner is responsible for any additional fees/cost.

*Emergency lighting is by others, not in CSD's scope.

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A	01/23/24	Revision A

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GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

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AV-0.1

CONDUIT COORDINATION LEGEND

NOTE	CONDUIT SIZE
3/4"	3/4"
1"	1"
1-1/4"	1-1/4"
1-1/2"	1-1/2"
2"	2"
3"	3"
4"	4"
6"	6"
8"	8"
12"	12"
CT1	6" WIRE TROUGH IN STAGE
CT2	24" CABLE TRAY

STUB OUT/UP INTO ACCESSIBLE CEILING

90° CORNERS REQUIRE A BACK BOX FOR CONDUIT

ROUNDED CORNER DO NOT REQUIRE BACK BOX FOR CONDUIT

90° REPRESENTS ONE CONDUIT

ROUNDED CORNER REPRESENTS MULTIPLE CONDUITS [Example - (2) 1"]

OVERHEAD

UNDER PLATFORM

UNDER GROUND

FREE- WIRE

GENERAL NOTES:

-EC TO PROVIDE AND INSTALL ALL CONDUIT, BACK BOXES, GUTTER BOXES, TERMINAL CANS, RACEWAYS, CABLE TRAYS AND ACCESS PANELS UNLESS OTHERWISE NOTED.

-CONDUIT RUNS ARE DRAWN FOR ILLUSTRATION ONLY. ACTUAL CONDUIT PATHS & INTERIM BOXES TO BE DETERMINED BY THE EC.

-EC MAY INCREASE THE SIZE OF JUNCTION BOXES, GUTTERS & CONDUIT AS NEEDED IN THE EVENT THAT A CONFLICT EXISTS.

-EC TO PROVIDE AND INSTALL ALL HIGH VOLTAGE (120V-240V) CABLE AND FIXTURES UNLESS OTHERWISE NOTED.

-INSTALL APPLICABLE SIZE PULL BOXES AFTER 270º OF BEND OR IF CONDUIT RUN IS MORE THAN 100'.

-LABEL ALL CONDUIT FOR DESTINATIONS SUCH AS BOX NUMBERS AND/OR ROOM LOCATIONS.

-DE-BURR ALL ROUGH EDGES TO PREVENT CABLE ABRASION.

-INSTALL PULL LINES IN ALL CONDUITS.

-ENSURE ALL CONDUITS ARE FREE FROM DEBRIS & WATER.

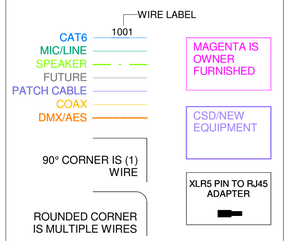
-ENSURE ALL IN GROUND PULL BOXES AND VAULTS ARE WEATHER PROOF & FREE OF DEBRIS & WATER.

-ENSURE CONDUIT IS ELECTRICALLY ISOLATED FROM ALL EQUIPMENT RACKS AND ENCLOSURES.

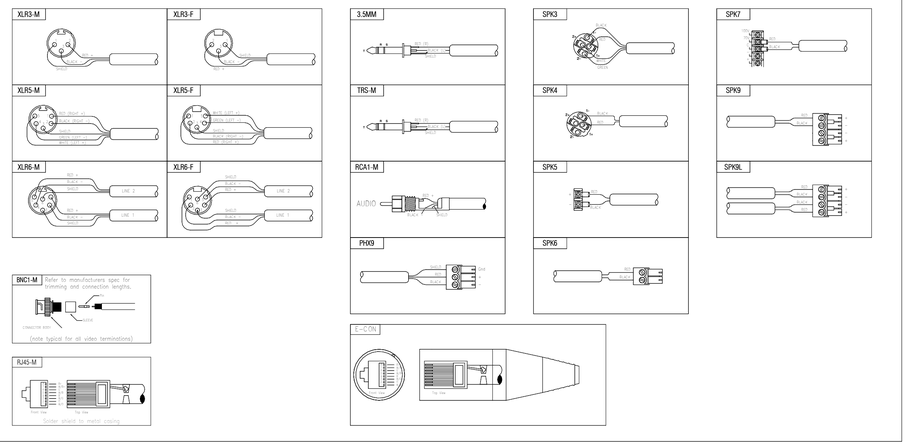
ABBREVIATIONS

SYMBOL	GENERAL ABBREVIATIONS	SYMBOL	GENERAL ABBREVIATIONS
AFF	ABOVE FINISHED FLOOR	SSH	STANDARD SWITCH HEIGHT
AVC	AUDIO VISUAL CONTRACTOR	SWL	SAFE WORKING LOAD
AVL	AUDIO/VISUAL/THEATRICAL LIGHTING	TBD	TO BE DETERMINED
EC	ELECTRICAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
EXS	EXISTING EQUIPMENT		
FBO	FURNISHED BY OTHERS		
FL	FLUSH MOUNT		
FOH	FRONT OF HOUSE		
GC	GENERAL CONTRACTOR		
LAN	LOCAL AREA NETWORK		
NTS	NOT TO SCALE		
OFE	OWNER FURNISHED EQUIPMENT		
RCP	REFLECTED CEILING PLAN		
RK	RACK MOUNT		
SR	SURFACE MOUNT		

KEY FOR ALL SIGNAL FLOW :



CONNECTOR TERMINATIONS (Always verify pin out with equipment in the field)

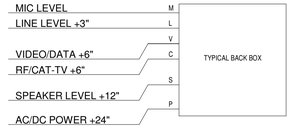


1 ELECTRICAL COORDINATION
-

CONDUIT SPACING GUIDELINES

NOTES:
- ALL CONDUIT SPACING REFERENCED FROM MIC LEVEL SIGNALS.

- ALL DISTANCES ARE MINIMUM REQUIRED SPACING. WHERE IT IS NOT POSSIBLE TO MAINTAIN ADEQUATE SEPARATION, KEEP PARALLEL GROUPINGS TO AN ABSOLUTE MINIMUM USING 90°CROSSINGS WHEREVER POSSIBLE OR NECESSARY.

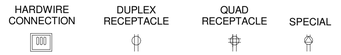


AVL BACK BOX (JUNCTION BOX) SYMBOLS

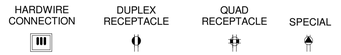
JUNCTION BOX

AVL Power Symbols

(NTPx) NON-TECHNICAL POWER

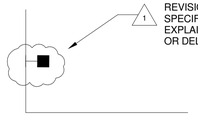


(TPx) TECHNICAL POWER



REVISION CLOUD

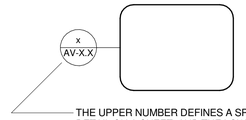
REVISION CLOUDS WILL BE SHOWN ON DRAWING SHEETS TO INDICATE CHANGES MADE TO ANY PREVIOUSLY ISSUED SHEET.



REVISION CLOUDS WILL BE KEYED TO SPECIFIC NOTES ON THE SHEET TO EXPLAIN WHAT WAS CHANGED, ADDED OR DELETED.

DETAIL BUBBLE

DETAIL BUBBLES ARE USED ON PLAN, OR RCP VIEW, SHEETS TO INDICATE THAT THERE IS FURTHER ANNOTATION/DRAWING REFERENCE TO A SPECIFIC AREA ON ANOTHER SHEET.



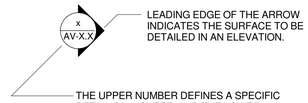
THE UPPER NUMBER DEFINES A SPECIFIC DETAIL ON A SHEET; AND THE LOWER NUMBER REFERS TO A SPECIFIC DRAWING SHEET.

DRAWING DETAIL FLAG

DETAIL DRAWING FLAGS ARE USED WHEN A SPECIFIC SHEET HAS MULTIPLE,SEPARATE, DRAWINGS ON IT. EACH DISCRETE DRAWING WITHIN THE SHEETS WILL HAVE A UNIQUE, IDENTIFYING NUMBER.

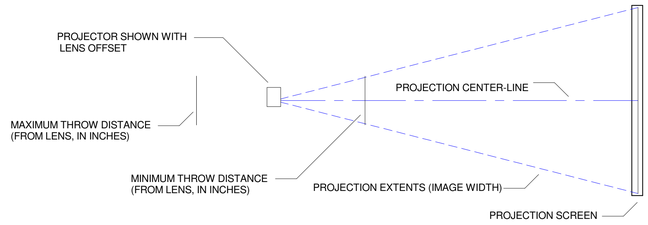
ELEVATION BUBBLE

ELEVATION FLAGS ARE USED TO INDICATE THAT A PARTICULAR WALL, OR SURFACE, IS DETAILED FURTHER; EITHER ON A SEPARATE SHEET, OR ELSEWHERE WITHIN THE SAME SHEET. REFER TO THE CALL-OUTS WITHIN THE ELEVATION BUBBLE TO FIND THE SPECIFIC DETAIL DRAWING.



PROJECTOR THROW RANGE DETAIL (ON RCP VIEWS)

NOTES:
THE DETAIL DRAWING BELOW SHOWS A REPRESENTATION OF THE CALCULATED THROW RANGE FOR THE SPECIFIED PROJECTOR IN EACH ROOM LAYOUT'S REFLECTED CEILING PLAN (RCP). **NOTE: THIS DETAIL IS PROVIDED AS A REFERENCE ONLY. ALL THROW DISTANCES ARE BASED OFF OF THE CENTER OF THE LENS TO THE CENTER OF THE PROJECTION SCREEN.DUE TO THE VARIANCE IN THE OUTER EDGES OF THE ACTUAL LENS PTUICS, IT IS ALWAYS A BEST PRACTICE TO PLACE THE PROJECTOR AS CLOSER TO THE CENTER OF THE THROW RANGE AS POSSIBLE (ALSO REFERRED TO AS THE "SWEET SPOT"). MINIMUM AND MAXIMUM EXTENTS ARE SHOWN TO DEFINE THE POSSIBLE LOCATIONS OF THE PROJECTOR SHOULD ANYMECHANICAL ISSUES IN THE FIELD MAKE IT NECESSARY TO MOVE THE PROJECTOR AS A LAST RESORT.



INSTALLATION TEAMS SHALL ALWAYS VERIFY THESE CALCULATIONS PRIOR TO ANY INSTALLATION ACTIVITIES AS A SECONDARY PROCESS CHECK.

PRIOR TO INSTALLATION, THESE ITEMS SHOULD BE REVIEWED AND CONFIRMED:
1. THE PROJECTED LIGHT PATH IS CLEAR FROM INTERFERENCE, AND/OR ANY OBSTRUCTIONS.
2. THE AREA FOR THE PROJECTOR TO BE INSTALLED, PHYSICALLY, IS CLEAR OF ANY MECHANICAL OBSTRUCTIONS, OR ITEMS THAT WILL HINDER THE PLACEMENT OF THE PROJECTOR.

NOT FOR CONSTRUCTION

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CLIENT SIGN-OFF APPROVAL

INITIALS:

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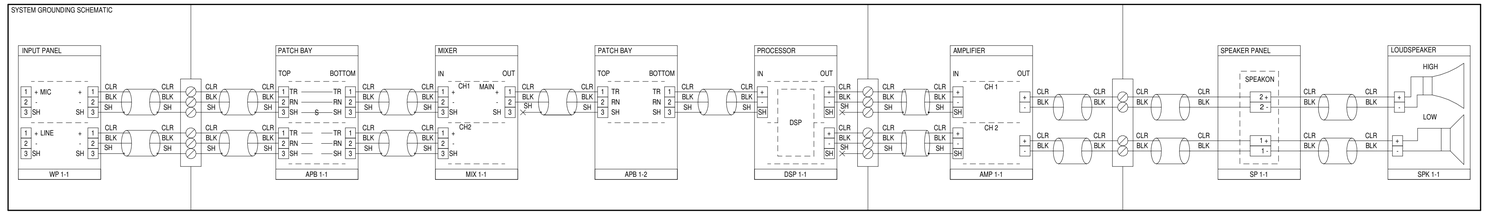
AV-0.2

Audio Signal Grounding Standards

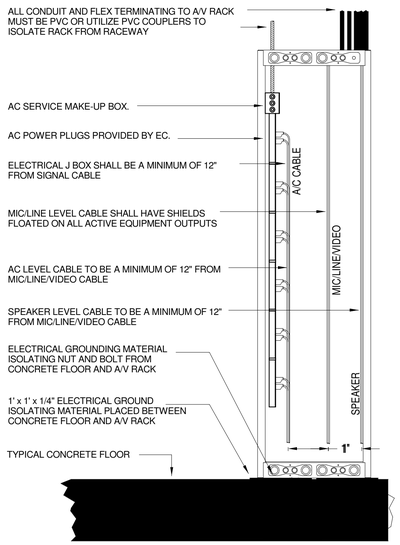


AVL Equipment Rack Coordination

RACK WIRING DETAIL

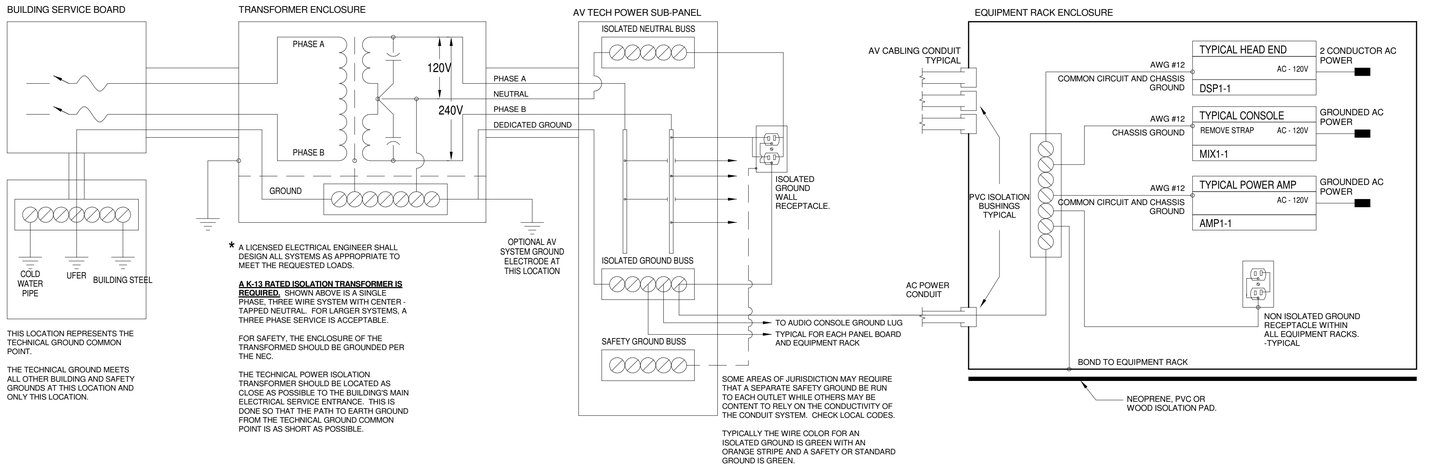
RACK WIRING NOTES:

1. ELECTRICAL SERVICE LEVELS SHALL NOT BE MIXED IN A INDIVIDUAL HARNESS. IT IS THE INTENT THAT THERE WILL BE A SEPARATE HARNESS FOR EACH ELECTRICAL SERVICE LEVEL.
2. GREAT CARE SHALL BE EXERCISED TO KEEP LOW LEVEL SIGNAL HARNESSES SEPARATED FROM THE AC POWER LINES AND HIGH-LEVEL SIGNAL HARNESSES.
3. LOCATE ALL INTERNAL AC RECEPTACLES IN SIDE BY SIDE RACKS TOWARDS THE MIDDLE OF THE TWO RACKS AND THE LOW VOLTAGE HARNESSES TO THE OUTER SIDES.
4. ALL AUDIO FIELD LINES ENTERING THE EQUIPMENT RACKS MUST BE CONNECTED WITH AN INTERMEDIATE TERMINAL BLOCK. VIDEO FIELD LINES MAY BE CONNECTED DIRECTLY TO THE SWITCHER OR PATCH BAYS. IN THE EVENT THAT A PATCH BAY WITH AN E3 OR E90 CONNECTORS IS USED, THE PATCH BAY MAY SERVE AS THE TERMINAL BLOCK. THIS WILL ALSO FACILITATE THE TESTING OF THE SYSTEMS IN HOUSE.
5. ALL CONNECTIONS OF LINES AT TERMINAL BLOCKS, AS WELL AS AT SIGNAL RECEPTACLES SHALL BE MECHANICALLY SECURED AND SOLDERED.
6. CABLES SHALL BE GROUPED AND BUNDLED BY TYPE AND ROUTED FROM SOURCE TO TERMINATION IN A UNIFORM MANNER THROUGHOUT ALL EQUIPMENT HOUSINGS. CARE SHALL BE TAKEN NOT TO BREAK THE INSULATION OR DEFORM THE CABLE BY HARNESS SUPPORTS. CABLES SHALL NOT CHANGE RELATIVE POSITION IN A CABLE GROUP THROUGHOUT A CABLE ROUTE.
7. CABLE SUPPORT BARS SHALL BE INSTALLED TO SUPPORT CABLES IN AREAS OF DENSE HARNESS BREAKOUTS SUCH A BEHIND PATCH PANELS, DISTRIBUTION AMPLIFIERS AND OTHER MULTIPLE INPUT/OUTPUT DEVICES.
8. EDGE PROTECTION MATERIAL OR GROMMETS SHALL BE INSTALLED ON THE EDGES OF HOLES, LIPS, DUCTS, OR ANY OTHER POINT WHERE CABLE OR HARNESSES CROSS METALLIC EDGES.
9. THE EQUIPMENT RACKS SHALL BE ELECTRICALLY ISOLATED FROM THE BUILDING CONDUIT SYSTEM AND MECHANICAL GROUNDS. THE RACKS SHALL BE AGGRESSIVELY BONDED AT ONLY ONE POINT TO THE ISOLATED GROUNDING SYSTEM.



Technical Power Standards - Isolated Ground Circuits

POWER GROUNDING DETAIL - *FOR ILLUSTRATION ONLY*
SPLIT SINGLE PHASE SYSTEM



NOTES:

1. ALL GROUND LINES MEET AT ONE POINT WITHIN EACH EQUIPMENT RACK.
2. DO NOT BUSS GROUND LINES EXCEPT AS SHOWN.
3. ISOLATE ALL CONDUIT FROM THE EQUIPMENT RACKS WITH PVC OR SIMILAR ISOLATION BUSHINGS.
4. PROPERLY BOND ALL ADJACENT AV RACKS TOGETHER.
5. ISOLATE ALL RACK ENCLOSURES FROM ALL CONDUCTING ELEMENTS WITH NEOPRENE OR OTHER RUBBERIZED ISOLATION TILES AT THE BOTTOM OF EACH RACK.
6. WHEN TEMPORARILY DISCONNECTING THE BOND BETWEEN THE IG BUSS AND THE POWER SYSTEM GROUND (LIFTED AT THE TECH POWER PANEL(S)) NO CONTINUITY SHOULD BE MEASURABLE BETWEEN THE ISOLATED AND STANDARD BUILDING GROUNDS.
7. COMPLY WITH NEC ARTICLE 250 FOR TYPES, SIZES AND QUANTITIES OF EQUIPMENT GROUND CONDUCTORS EXCEPT WHERE SPECIFIC TYPES, LARGER SIZES OR MORE CONDUCTORS THAN REQUIRED BY THE NEC ARE INDICATED.

1 ELECTRICAL GROUNDING
-

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
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No	DATE	DESCRIPTION

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CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
ELECTRICAL & GROUNDING COORDINATION

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PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
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CHECKED BY:	BWC
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DATE ISSUE:	10/19/23

SHEET NUMBER
AV-0.3

TP POWER SCHEDULE - AV-6.1

NTP POWER SCHEDULE - AV-6.2

BACK BOX SCHEDULE - AV-6.4
Reference back box schedule "notes" section for more information about back box intended purpose.

- All equipment suspended form ceiling/walls to be reviewed by project structural engineer.
- GC to provide appropriate structure at specified locations to support the weight of the Audio, Video, & Lighting Equipment (speakers, projectors, LED video walls, and lighing bars/pipes.

GENERAL NOTES

-

FB-x: (QTY 7) Floor Box i/O Location
EC to verify final Locations with owner

FF-x: (QTY 6) Front Fill Speaker Location
GC to provide cavity in face of platform for locations FF-1, FF-2, FF-5, & FF-6.
GC to provide and install acoustically tranparent grill over each location.
AVC to mount FF-3 & FF-4 to bottom of removable platform using a `U-Bracket.
Speaker signal to be feed from I/O-1 & I/O-2

R-x: (QTY 2) AV Equipment Rack Location

TV-x: (QTY 18) TV Location
Note: TV-13, TV-14,TV-15, TV-16, TV-17, TV-18 : TV and signal cables are future.

MTV-x: (QTY 2) Multiview TV Location

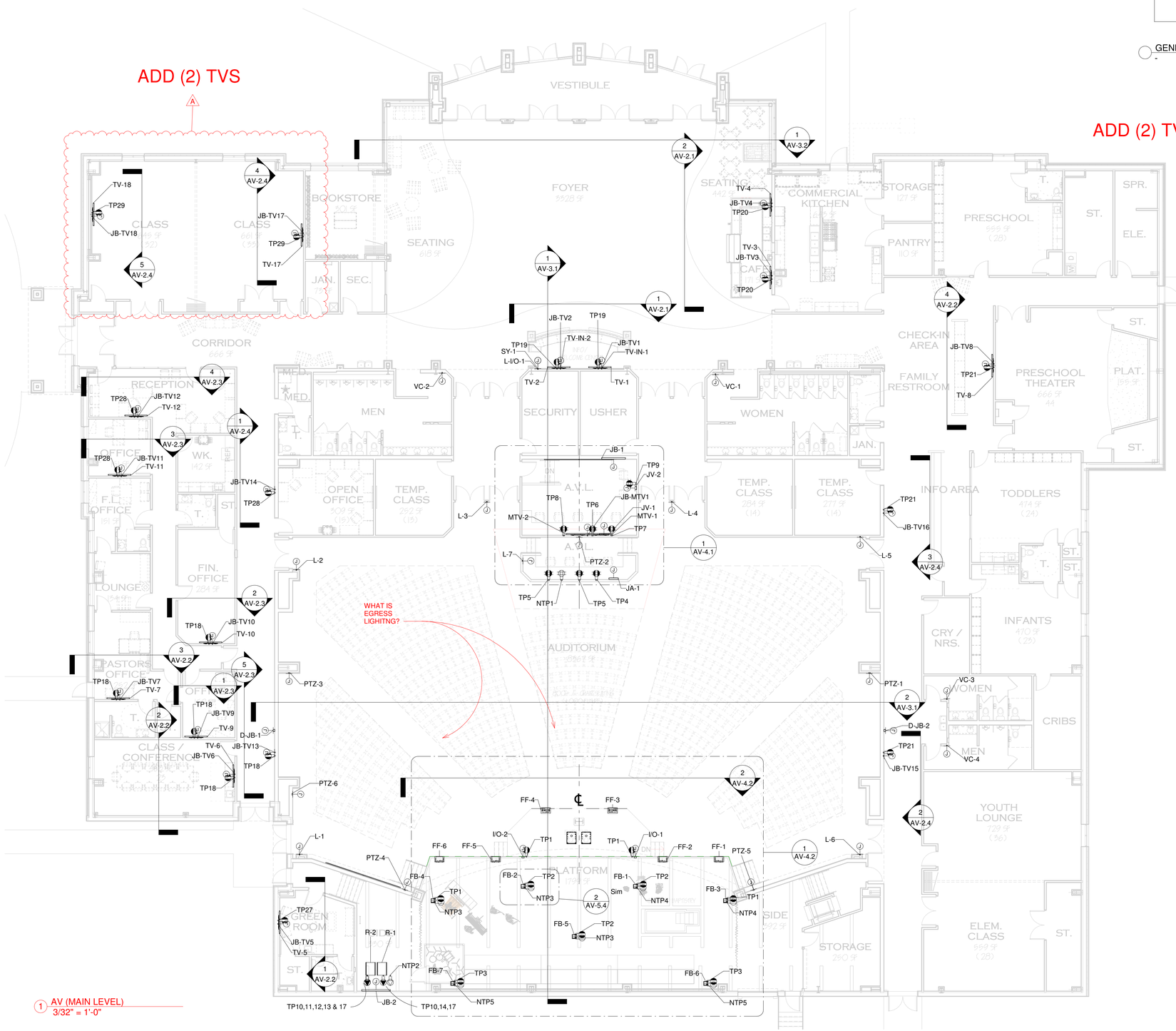
FLOOR PLAN KEYNOTES

2

-

ADD (2) TVS

ADD (2) TVS



1 AV (MAIN LEVEL)
3/32" = 1'-0"

LOW VOLTAGE BACK BOX PURPOSE

LABEL	NOTES
D-JB-1	CONDUIT TERMINATION POINT
D-JB-2	CONDUIT TERMINATION POINT
FB-1	FLOOR BOX AV i/O CONNECTIONS
FB-2	FLOOR BOX AV i/O CONNECTIONS
FB-3	FLOOR BOX AV i/O CONNECTIONS
FB-4	FLOOR BOX AV i/O CONNECTIONS
FB-5	FLOOR BOX AV i/O CONNECTIONS
FB-6	FLOOR BOX AV i/O CONNECTIONS
FB-7	FLOOR BOX AV i/O CONNECTIONS
I/O-1	WALL PLATE AV i/O CONNECTIONS
I/O-2	WALL PLATE AV i/O CONNECTIONS
JA-1	VIDEO AND LIGHTING JUNCTION BOX
JB-1	CONDUIT TERMINATION POINT
JB-2	CONDUIT TERMINATION POINT
JB-MTV1	MULTIVIEW TV SIGNAL
JB-TV1	TV SIGNAL
JB-TV2	TV SIGNAL
JB-TV3	TV SIGNAL
JB-TV4	TV SIGNAL
JB-TV5	TV SIGNAL
JB-TV6	TV SIGNAL
JB-TV7	TV SIGNAL
JB-TV8	TV SIGNAL
JB-TV9	TV SIGNAL
JB-TV10	TV SIGNAL
JB-TV11	TV SIGNAL
JB-TV12	TV SIGNAL
JB-TV13	TV SIGNAL
JB-TV14	TV SIGNAL
JB-TV15	TV SIGNAL
JB-TV16	TV SIGNAL
JB-TV17	TV SIGNAL
JB-TV18	TV SIGNAL
JV-1	VIDEO JUNCTION BOX
JV-2	VIDEO JUNCTION BOX
L-1	HOUSE LIGHTING PRESET PANEL
L-2	HOUSE LIGHTING PRESET PANEL
L-3	HOUSE LIGHTING PRESET PANEL
L-4	HOUSE LIGHTING PRESET PANEL
L-5	HOUSE LIGHTING PRESET PANEL
L-6	HOUSE LIGHTING PRESET PANEL
L-7	HOUSE LIGHTING PRESET PANEL
L-I/O-1	(2) MIC INPUTS
PTZ-1	PTZ CAMERA LOCATION
PTZ-2	PTZ CAMERA LOCATION
PTZ-3	PTZ CAMERA LOCATION
PTZ-4	PTZ CAMERA LOCATION
PTZ-5	PTZ CAMERA LOCATION
PTZ-6	PTZ CAMERA LOCATION
SY-1	AUDIO SELECTOR (SYMETRIX)
TV-IN-1	HDMI INPUT
TV-IN-2	HDMI INPUT
VC-1	VOLUME CONTROL
VC-2	VOLUME CONTROL
VC-3	VOLUME CONTROL
VC-4	VOLUME CONTROL

ADD (2) TVS

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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

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CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE
FLOOR PLAN

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PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

SHEET NUMBER
AV-1.1

TP POWER SCHEDULE - AV-6.1

NTP POWER SCHEDULE - AV-6.2

BACK BOX SCHEDULE - AV-6.4
Reference back box schedule "notes" section for more information about back box intended purpose.

- All equipment suspended form ceiling/walls to be reviewed by project structural engineer.
- GC to provide appropriate structure at specified locations to support the weight of the Audio, Video, & Lighting Equipment (speakers, projectors, LED video walls, and lighing bars/pipes.

GENERAL NOTES
-

AM-x: (QTY 2) Audience Microphone Location

ANT-x: (QTY 2) Wireless IEM & Microphone Antenna Location

CM-x: (QTY 1) Choir Microphone(s) Conduit Termination Location

C: (QTY 4) Choir Microphone Location

CS-x: (QTY 8) Ceiling Speaker Location

PS-x: (QTY 4) Pendant Speaker Location

LP-1: (QTY 1) Lighting pipe Location
1.5" x 46'-0" | Suspend from (10) points | Capable of supporting 1380 lbs | Actual Weight 400 lbs

LP-2: (QTY 1) Lighting pipe Location
1.5" x 86'-0" | Suspend from (21) points | Capable of supporting 2580 lbs | Actual Weight 900 lbs

LP-3: (QTY 1) Lighting pipe Location
1.5" x 48'-0" | Suspend from (11) points | Capable of supporting 1440 lbs | Actual Weight 450 lbs

LP-4: (QTY 1) Lighting pipe Location
1.5" x 60'-0" | Suspend from (13) points | Capable of supporting 1800 lbs | Actual Weight 500 lbs

S1-x: (QTY 3) Speaker Array location
S1-1 & S1-2 : JBL (1) AF + (6) SRX906LA boxes per location | Suspend from (2) points | 250 lbs
S1-3 : JBL (1) AF + (8) SRX906LA boxes per location | Suspend from (2) points | 350 lbs

S2-x: (QTY 4) Choir Monitor Speaker location
JBL AC18/95 | Suspend from (2) points | 50 lbs

SB-x: (QTY 2) Subwoofer Array location
JBL (1) AF + (3) boxes per location | Suspend from (2) points | 300 lbs

VP1-x: (QTY 2) Projector location
Epson 13k Laser | Stanard lens | Lens range: 25'-5" - 41'-0"
Suspend from (1) points | 100 lbs

VS1-x: (QTY 2) Projector Screen location
Da-Lite Cinema Contour 220" | Anchored to Wall | 90 lbs

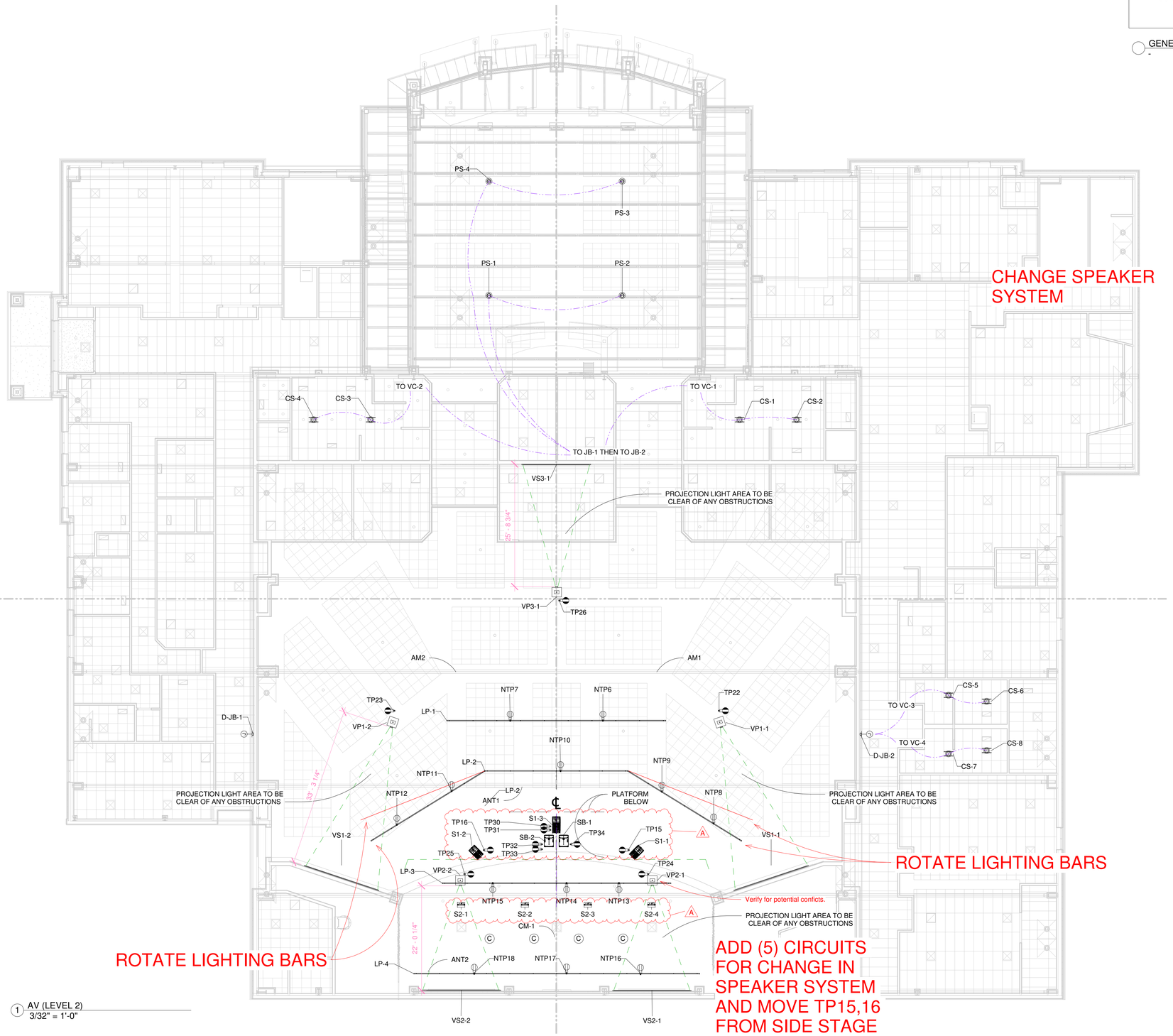
VP2-x: (QTY 2) Projector location
Epson 13k Laser | Custom Lens - ELPLW06(V12004W06) | Lens range: 19'-2" - 26'-1"
Suspend from (1) points | 100 lbs

VS2-x: (QTY 2) Projector Screen location
Da-Lite Cinema Contour 220" | Anchored to Wall | 90 lbs

VP3-x: (QTY 1) Projector location
Epson 7k Laser | Stanard lens | Lens range: 19'-1 - 30'-10"
Suspend from (1) points | 50 lbs

VS3-x: (QTY 1) Projector Screen location
Da-Lite Cinema Contour 193" | Anchored to Wall | 80 lbs

CEILING PLAN KEYNOTES
-



1 AV (LEVEL 2)
3/32" = 1'-0"

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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

PROJECT/CLIENT
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CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
CEILING PLAN

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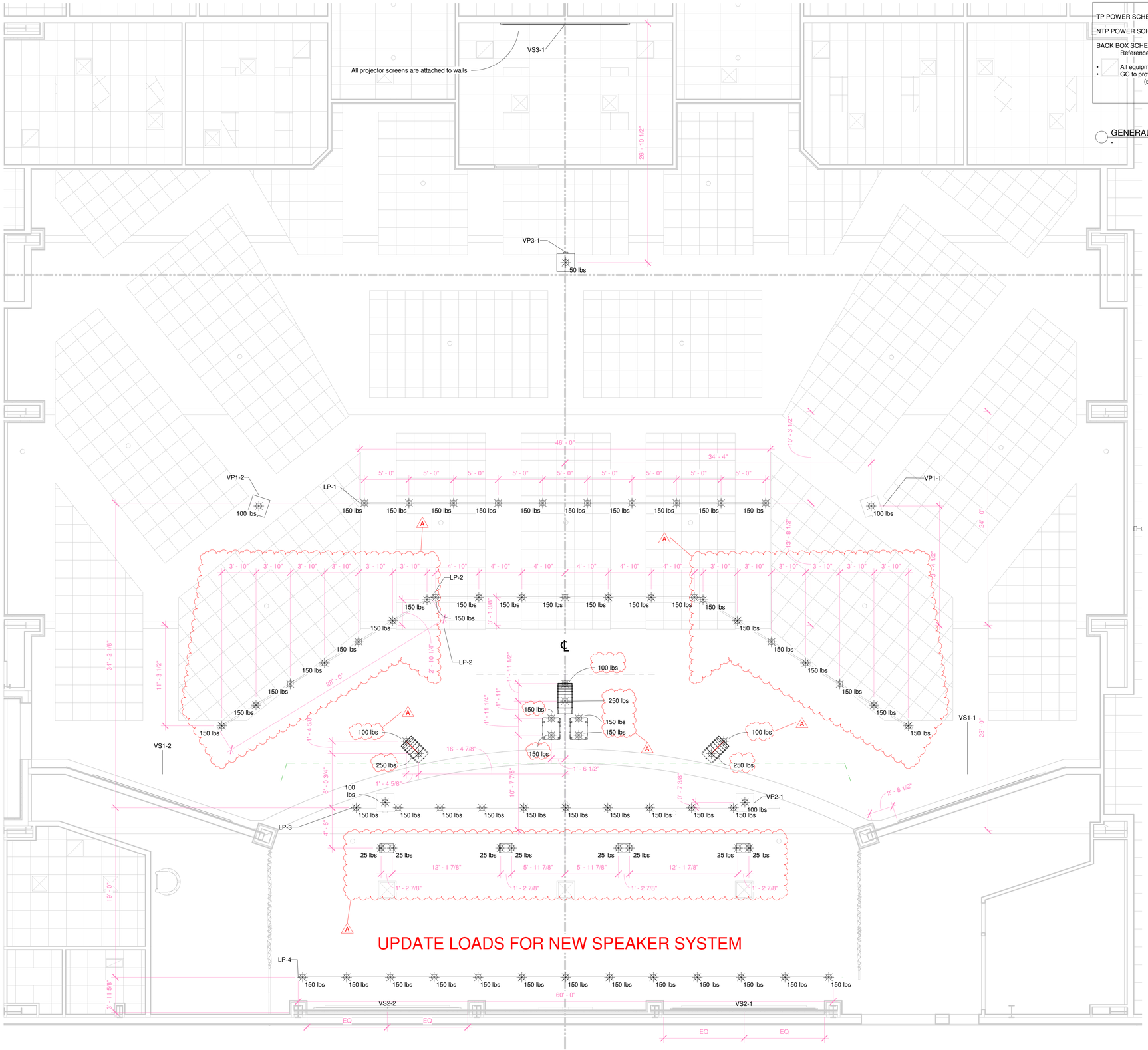

UPDATE LOADS FOR NEW SPEAKER SYSTEM

1 AV (LEVEL 2) Weights & Dimensions
3/16" = 1'-0"

TP POWER SCHEDULE - AV-6.1

NTP POWER SCHEDULE - AV-6.2

BACK BOX SCHEDULE - AV-6.4
Reference back box schedule "notes" section for more information about back box intended purpose.

- All equipment suspended form ceiling/walls to be reviewed by project structural engineer.
- GC to provide appropriate structure at specified locations to support the weight of the Audio, Video, & Lighting Equipment (speakers, projectors, LED video walls, and lighing bars/pipes.

GENERAL NOTES

-

1. 5:1 SAFETY FACTOR RATING SHALL BE USED ON ALL RIGGING COMPONENTS.
2. ALL SHACKLES, SHOULDER EYE-BOLTS, TURN BUCKLES, ETC. SHALL BE FORGED ALLOY-STEEL GRADE PRODUCTS.
3. ALL NUTS AND BOLTS USED SHALL BE SAE GRADE 8 RATED.
4. THREADED ROD USED SHALL BE HARDENED B7 RATED.
5. WIRE ROPE USED SHALL BE GALVANIZED IWRC 7 STRAND 19 WIRE (7x19) CLASS RATED.

RIGGING STANDARDS

-

Weight Location
xxx lbs
Amount of Weight

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

PROJECT/CLIENT
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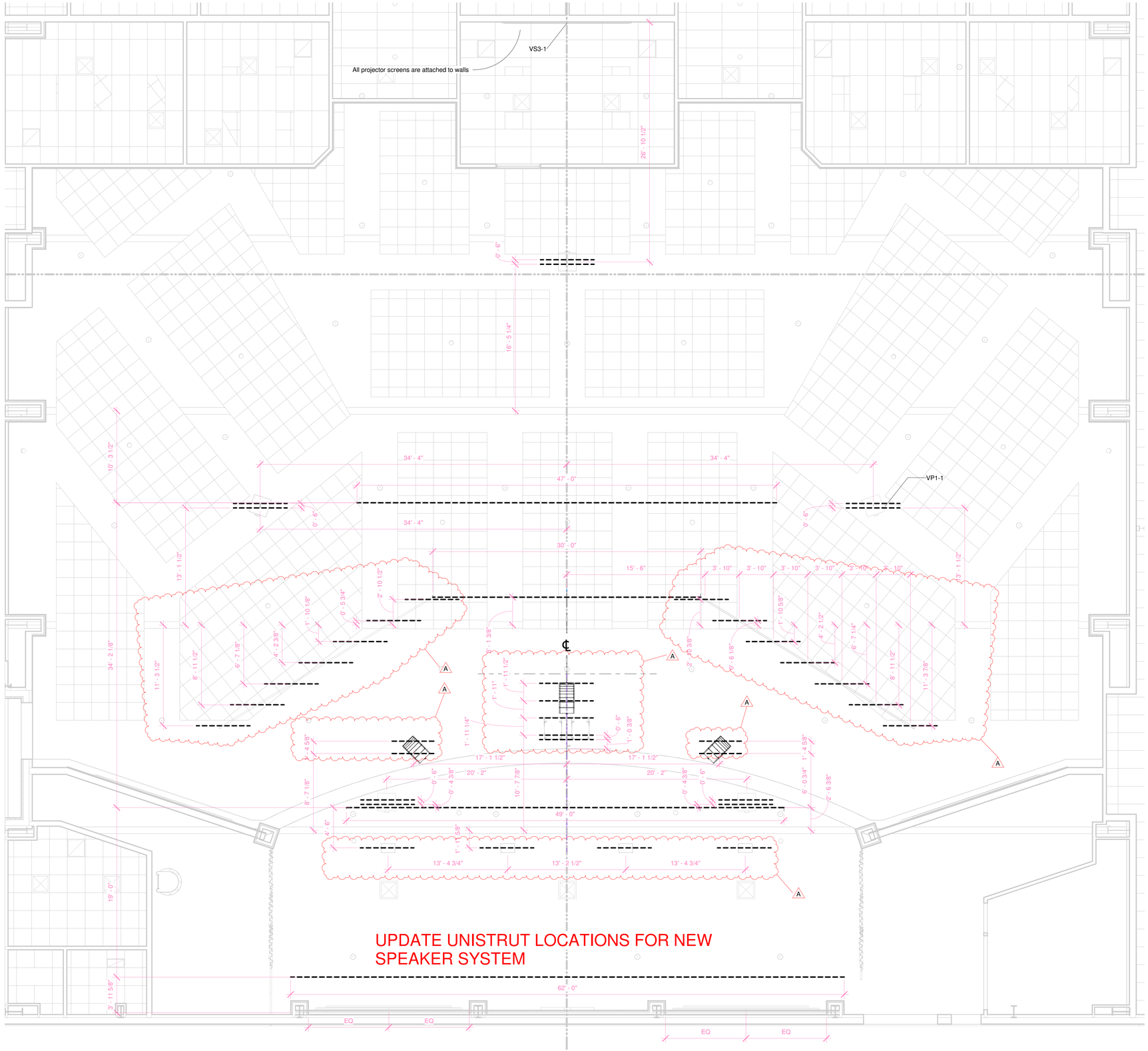
CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
AUDITORIUM RCP (Weights & Dimensions)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/13/23

SHEET NUMBER
AV-1.3



1 AV (LEVEL 2) Unistrut Locations
3/16" = 1'-0"

KEY NOTE:

P1001T UNISTRUT PROVIDED AND INSTALLED BY GC

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
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SUBMITTALS/REVISIONS

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A	01/23/24	Revision A

PROJECT/CLIENT
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CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
AUDITORIUM CEILING PLAN UNISTRUT LOCATIONS

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PROJECT NUMBER:	CSD-45841
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CHECKED BY:	BWC
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SHEET NUMBER
AV-1.4

WORSHIP

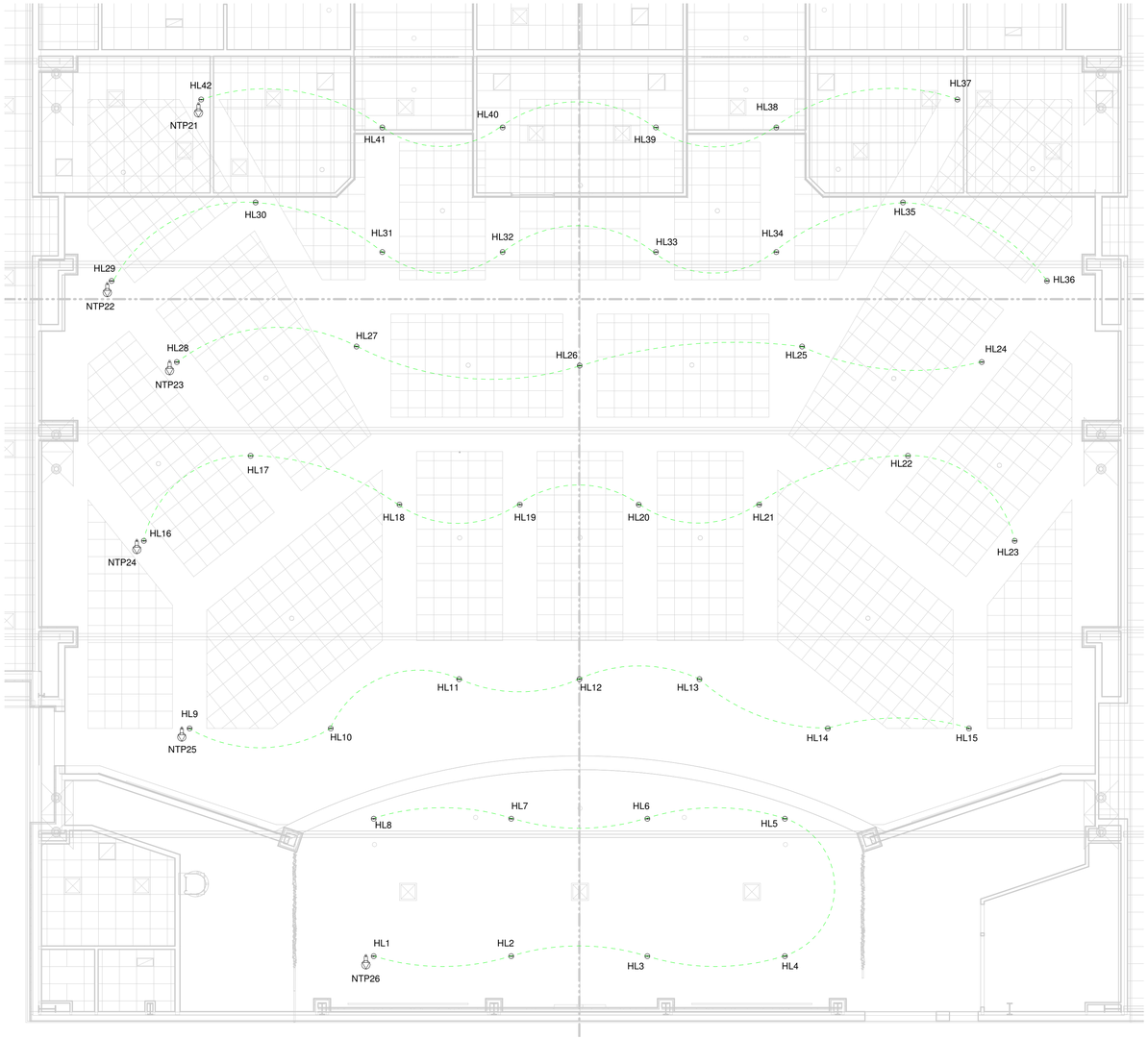
HLx: (QTY 42) House light location
Chroma Q Inspire XT WIDE Lens Pendant Mount
Fixtures Over Auditoriuim are 28'-0" to Lens
Fixtures Over Platform are 25'-1" to Lens

Fixtures provided by AV Contractor
Fixtures installed by Electrical Contractor

ELECTRICAL WIRE

2 HOUSE LIGHTING KEYNOTES

-



1 AV (LEVEL 2) Auditorium House Lights

1/8" = 1'-0"

TP POWER SCHEDULE - AV-6.1

NTP POWER SCHEDULE - AV-6.2

BACK BOX SCHEDULE - AV-6.4
Reference back box schedule "notes" section for more information about back box intended purpose.

- All equipment suspended form ceiling/walls to be reviewed by project structural engineer.
- GC to provide appropriate structure at specified locations to support the weight of the Audio, Video, & Lighting Equipment (speakers, projectors, LED video walls, and lighing bars/pipes.

GENERAL NOTES

-

Chroma-Q
BRILLIANT SOLUTIONS

Specification Sheet - Version: 1.4
Chroma-Q® Inspire XT
RGBW LED House Light
Part No: CHINHLRGBWXT

DESCRIPTION

The Chroma-Q® Inspire XT™ LED house light is the most powerful fixture in the range, delivering up to 9,500 lumens. Including all the features of the Inspire™ & Inspire Mini™ with twice the output, it is ideal for situations that require the same high quality white and coloured lighting with even more output.

In addition, it uses some of the innovative core technologies found in other award winning Chroma-Q® products. All Inspire models in the range provide a choice of beautiful whites, soft pastels and bold saturates - all from one fixture. By incorporating industry standard DMX-512 control, the Inspire is able to integrate seamlessly with an existing DMX infrastructure and can be controlled by any DMX supported lighting console.

With fully homogenised colour mixing and a choice of three different beam spreads, the Inspire XT provides an excellent selection of stunning mixed colours and 'true' whites, with no unsightly colour separation shadows. It also features an energy-efficient LED design providing reduced maintenance and running costs.

FEATURES

- Fully homogenised beam
- High quality white lighting and RGBW colour-mixing
- Beautiful whites, soft pastels and bold saturates - all from a single fixture
- Ideal for house light replacements
- Seamlessly integrate stage & house lighting
- Convection cooled for quiet operation
- Extremely smooth, uniform output
- Theatrical grade dimming
- Powerful – up to 9,500 lumens
- Holographic spread lenses included to allow for three beam spreads
- Adjustable 1,000K to 10,000K CCT
- High CRI of 90
- Exceptional failure to fixture consistency
- Made in North America
- Built in power supply
- Low energy consumption

ORDERING INFORMATION

CHINHLRGBWXT: Chroma-Q Inspire XT LED House Light Black Body
CHINHLRGBWXTW: Chroma-Q Inspire XT LED House Light White Body
CHINHLCTRLBOX6524: Chroma-Q Inspire Houselight External Control Box UL924

ACCESSORIES

CHINTHB: Top Hat/Snoot for Inspire (Black)
CHINTHW: Top Hat/Snoot for Inspire (White)
CHINYK: Yoke Mount Kit for Inspire (Black)
CHINYKW: Yoke Mount Kit for Inspire (White)
CHINBDB: Barndoor for Inspire (Black)
CHINBDW: Barndoor for Inspire (White)
CHINKBM: Blind Ceiling Installation Kit (Black)
CHINKBMW: Blind Ceiling Installation Kit (White)
CHINSK15B: Blind Sloped Ceiling Kit - 0 TO 15° Angle (Black Trim)
CHINSK15W: Blind Sloped Ceiling Kit - 0 TO 15° Angle (White Trim)
CHINSK30B: Blind Sloped Ceiling Kit - 20 TO 30° Angle (Black Trim)
CHINSK30W: Blind Sloped Ceiling Kit - 20 TO 30° Angle (White Trim)

OVERALL SPECIFICATIONS

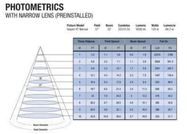
Net Dimensions Width:	181mm / 7"
(without fixings) Height:	557mm / 22"
Depth:	181mm / 7"
Net Weight:	7.5kg / 16.5lb
Shipping Dimensions (WxHxD):	355mm x 661mm x 305mm / 12" x 26" x 12"
Shipping Weight:	9.5 kg / 21 lbs
Power Supply:	Built in
Power Input Rating:	100-240V AC 50-60Hz 120VA
Power Factor:	0.9
Power Consumption:	135W @240V (Maximum Intensity); 7.5W @240V (Stand-by)
Inrush Current:	37A @120V and 75A@230V
Earth Leakage:	0.49mA
Typical Power & Current:	Measurements done with all LEDs at maximum intensity. Measurements made at nominal voltage. Allow for a deviation of +/- 10%
Power Connectors In/Out:	Terminal Block: plug-in screw connector (input only)
Data Connectors In/Out:	Terminal Block: plug-in screw connector
Control Protocol:	ANSI E1.11 USITT DMX-512-A
Cooling System:	Convection
Operating Temperature:	0°C to 40°C
Construction:	Anodised aluminium extrusion
Colour:	Black / White
Built-in Hardware:	Mounting bracket (12.7mm / 1/2" diameter hole)
IP Rating:	IP20
Approvals:	CISPR 22/EN55022 & CISPR 24/EN55024, ICES-003 Issue 4:2004 / FCC Part 15 Subpart B:2010, CSA C22.2 No. 166-M1983: R2008, UL 1573:2003 (R2010), IEC 60598-2-17
Control Modes:	RGBW Single (up to 4 ch x fixture count in system), RGBW Output (4 ch per output – 4.8 or 12 ch), Tungsten (1 ch per data output), 0-10V, Lock Recall, Alarm, Emergency
Dimming Curve:	Theatrical
Variable Effects Engine:	Yes
Effects Parameters:	Color speed, range, step, intensity effects
Hot Lumen Output (Combined):	Up to 9,500 lm
Optics:	Fully homogenised
Beam Angle:	32° (approx), 42° (approx), 65° (approx)
Beam Distribution:	Symmetrical direct illumination
CCT:	Adjustable 1,000 - 10,000K
Colour Gamut:	Performance enhanced
Lamp Life:	L70 at 50,000 hours
Approvals:	CISPR 22/EN55022 & CISPR 24/EN55024, ICES-003 Issue 4:2004 / FCC Part 15 Subpart B:2010, CSA C22.2 No. 166-M1983: R2008, UL 1573:2003 (R2010), IEC 60598-2-17
CRI:	90
Lamp life:	L70 at 50,000 hours

Chroma-Q
BRILLIANT SOLUTIONS

Specification Sheet - Version: 1.4
Chroma-Q® Inspire XT
RGBW LED House Light
Part No: CHINHLRGBWXT

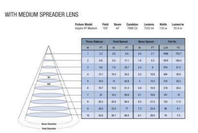
PHOTOMETRICS

WITH NARROW LENS (PRE/INSTALLED)



Fixture Model: Inspire XT Narrow	Height: 12"	Beam: 32°	Candelas: 1000 cd	Lumens: 1000 lm	Watts: 135 w	Lumens/w: 80.4 w
	Point Spread		Beam Spread		Field Spread	
A	0.0	0.0	0.0	0.0	0.0	0.0
B	0.5	2.5	0.5	1.6	0.8	3.9
C	1.0	5.0	1.0	3.2	1.6	7.8
D	1.5	7.5	1.5	4.8	2.4	11.7
E	2.0	10.0	2.0	6.4	3.2	15.6
F	2.5	12.5	2.5	8.0	4.0	19.5
G	3.0	15.0	3.0	9.6	4.8	23.4
H	3.5	17.5	3.5	11.2	5.6	27.3
I	4.0	20.0	4.0	12.8	6.4	31.2
J	4.5	22.5	4.5	14.4	7.2	35.1
K	5.0	25.0	5.0	16.0	8.0	39.0
L	5.5	27.5	5.5	17.6	8.8	42.9
M	6.0	30.0	6.0	19.2	9.6	46.8
N	6.5	32.5	6.5	20.8	10.4	50.7
O	7.0	35.0	7.0	22.4	11.2	54.6
P	7.5	37.5	7.5	24.0	12.0	58.5
Q	8.0	40.0	8.0	25.6	12.8	62.4
R	8.5	42.5	8.5	27.2	13.6	66.3
S	9.0	45.0	9.0	28.8	14.4	70.2
T	9.5	47.5	9.5	30.4	15.2	74.1
U	10.0	50.0	10.0	32.0	16.0	78.0
V	10.5	52.5	10.5	33.6	16.8	81.9
W	11.0	55.0	11.0	35.2	17.6	85.8
X	11.5	57.5	11.5	36.8	18.4	89.7
Y	12.0	60.0	12.0	38.4	19.2	93.6

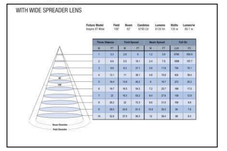
WITH MEDIUM SPREADER LENS



Fixture Model: Inspire XT Medium	Height: 12"	Beam: 42°	Candelas: 1000 cd	Lumens: 1000 lm	Watts: 135 w	Lumens/w: 80.4 w
	Point Spread		Beam Spread		Field Spread	
A	0.0	0.0	0.0	0.0	0.0	0.0
B	0.5	2.5	0.5	2.1	0.8	5.1
C	1.0	5.0	1.0	4.2	1.6	10.2
D	1.5	7.5	1.5	6.3	2.4	15.3
E	2.0	10.0	2.0	8.4	3.2	20.4
F	2.5	12.5	2.5	10.5	4.0	25.5
G	3.0	15.0	3.0	12.6	4.8	30.6
H	3.5	17.5	3.5	14.7	5.6	35.7
I	4.0	20.0	4.0	16.8	6.4	40.8
J	4.5	22.5	4.5	18.9	7.2	45.9
K	5.0	25.0	5.0	21.0	8.0	51.0
L	5.5	27.5	5.5	23.1	8.8	56.1
M	6.0	30.0	6.0	25.2	9.6	61.2
N	6.5	32.5	6.5	27.3	10.4	66.3
O	7.0	35.0	7.0	29.4	11.2	71.4
P	7.5	37.5	7.5	31.5	12.0	76.5
Q	8.0	40.0	8.0	33.6	12.8	81.6
R	8.5	42.5	8.5	35.7	13.6	86.7
S	9.0	45.0	9.0	37.8	14.4	91.8
T	9.5	47.5	9.5	39.9	15.2	96.9
U	10.0	50.0	10.0	42.0	16.0	102.0
V	10.5	52.5	10.5	44.1	16.8	107.1
W	11.0	55.0	11.0	46.2	17.6	112.2
X	11.5	57.5	11.5	48.3	18.4	117.3
Y	12.0	60.0	12.0	50.4	19.2	122.4

DIMENSIONS

WITH WIDE SPREADER LENS



Fixture Model: Inspire XT Wide	Height: 12"	Beam: 65°	Candelas: 1000 cd	Lumens: 1000 lm	Watts: 135 w	Lumens/w: 80.4 w
	Point Spread		Beam Spread		Field Spread	
A	0.0	0.0	0.0	0.0	0.0	0.0
B	0.5	2.5	0.5	3.7	0.8	8.9
C	1.0	5.0	1.0	7.5	1.6	17.8
D	1.5	7.5	1.5	11.2	2.4	26.7
E	2.0	10.0	2.0	14.9	3.2	35.6
F	2.5	12.5	2.5	18.6	4.0	44.5
G	3.0	15.0	3.0	22.3	4.8	53.4
H	3.5	17.5	3.5	26.1	5.6	62.3
I	4.0	20.0	4.0	29.8	6.4	71.2
J	4.5	22.5	4.5	33.5	7.2	80.1
K	5.0	25.0	5.0	37.2	8.0	89.0
L	5.5	27.5	5.5	40.9	8.8	97.9
M	6.0	30.0	6.0	44.6	9.6	106.8
N	6.5	32.5	6.5	48.3	10.4	115.7
O	7.0	35.0	7.0	52.0	11.2	124.6
P	7.5	37.5	7.5	55.7	12.0	133.5
Q	8.0	40.0	8.0	59.4	12.8	142.4
R	8.5	42.5	8.5	63.1	13.6	151.3
S	9.0	45.0	9.0	66.8	14.4	160.2
T	9.5	47.5	9.5	70.5	15.2	169.1
U	10.0	50.0	10.0	74.2	16.0	178.0
V	10.5	52.5	10.5	77.9	16.8	186.9
W	11.0	55.0	11.0	81.6	17.6	195.8
X	11.5	57.5	11.5	85.3	18.4	204.7
Y	12.0	60.0	12.0	89.0	19.2	213.6

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www.chroma-q.com

1. Overview

The Chroma-Q® Inspire™ Terminal Strip LED house light features a single light engine with high powered LEDs (RGBW), a fully homogenized optic and controlled via the Inspire™ External Control Box. Through the Inspire™ External Control Box, the fixture can be controlled remotely through the ANSI E1.11 USITT DMX 512-A protocol.

2. Safety

⚠ **Caution**

1. This product is for professional use only. It is NOT intended for domestic or outdoor use.
2. The bright flash of light during power-up and continuous strobe effect may cause epileptic seizure.
3. This product must be used with safety cable.

3. Cabling

Figure 1: Sample System Diagram

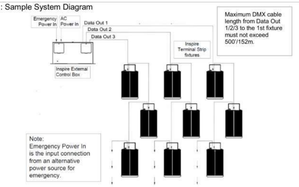
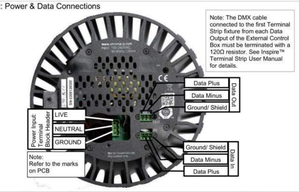


Figure 2: Power & Data Connections



To connect the wiring for power and control data:

- The power input connector box (figure 3) is supplied with the fixture and is not attached. It must be mounted as described in the following steps

Figure 3: Power Connection: Connector Box

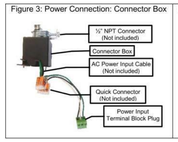
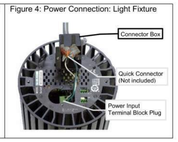


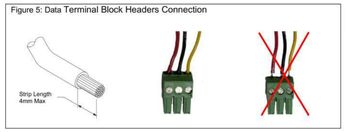
Figure 4: Power Connection: Light Fixture



- Insert the power cable with the appropriate ½" NPT connector or cable strain relief through the connector box (Figure 3). The hole on the connector box has a suitable dimension to attach a ½" NPT connector on it. The Power Input Terminal Block Plug has three soft wires attached to it. Attach the provided wires to the wiring for the AC power input with quick connectors or Marret connectors (Figure 3). ½" NPT connector, cable strain relief, quick connectors or Marret connectors are not included with the fixture.

- Put the quick / Marret connectors inside the connector box. Plug the wired terminal block plug into the power input terminal block header (Figure 4).

Figure 5: Data Terminal Block Headers Connection



- Connect the DMX control data cables from the Inspire™ External Control Box / another Inspire™ Light Fixture to the terminal block plug. Ensure that the bare wire is not visible. Some insulation of the wire must be inside the hole. The maximum strip length is 4 mm (Figure 5). Plug terminal block plug into the terminal block headers at the rear of the fixture (Figure 2 & 5).

Inspire XT™, Inspire™, Inspire Mini™ QSG V3.2 QSG P/N: 632-0707

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CUSTOM SOUND DESIGNS
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CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

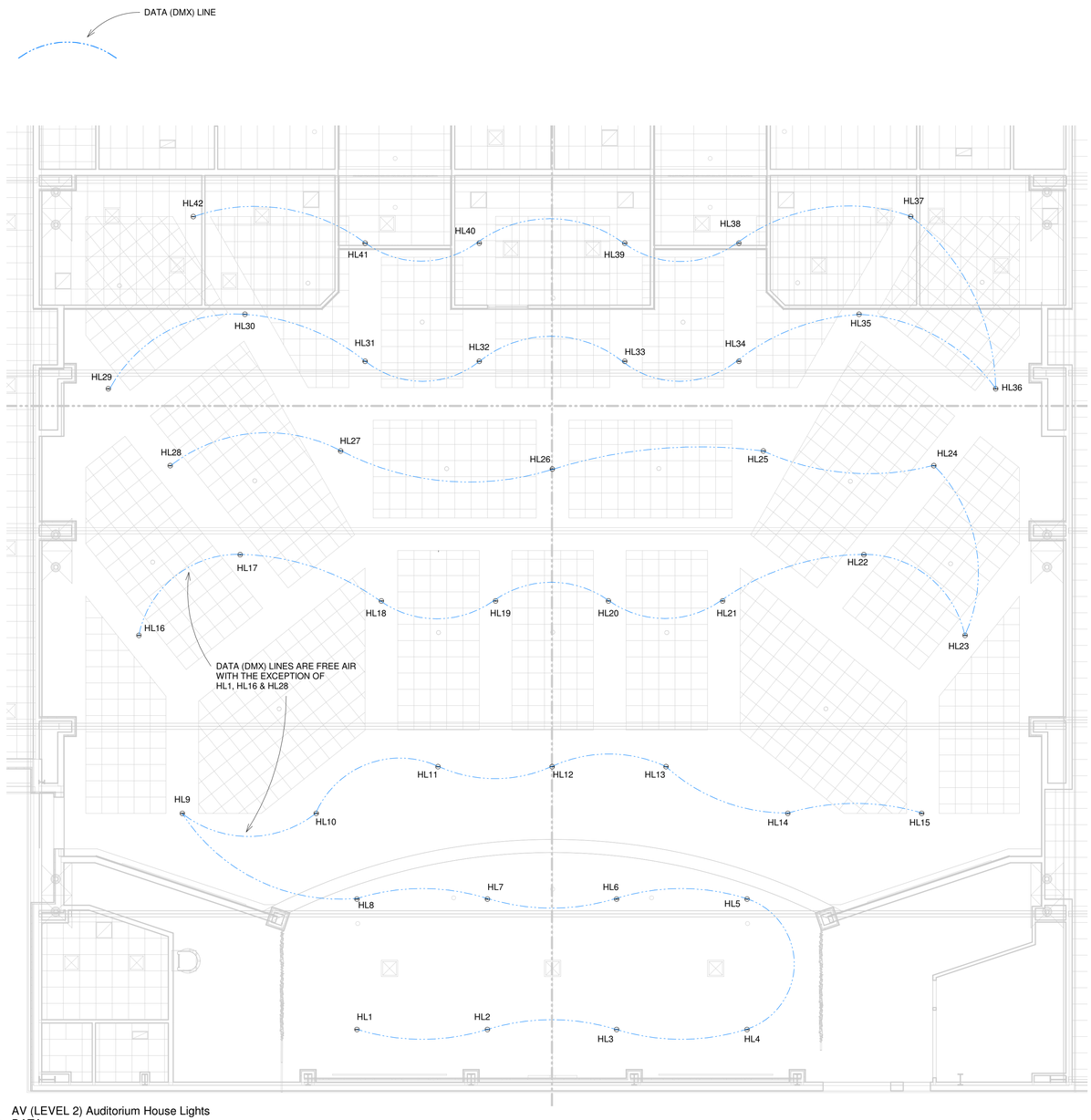
SHEET TITLE

AUDITORIUM HOUSE LIGHTS

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/13/23

SHEET NUMBER

AV-1.5



1 AV (LEVEL 2) Auditorium House Lights DATA
1/8" = 1'-0"

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Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

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ARCHITECT

SHEET TITLE

AUDITROIUM HOUSE LIGHTS DATA

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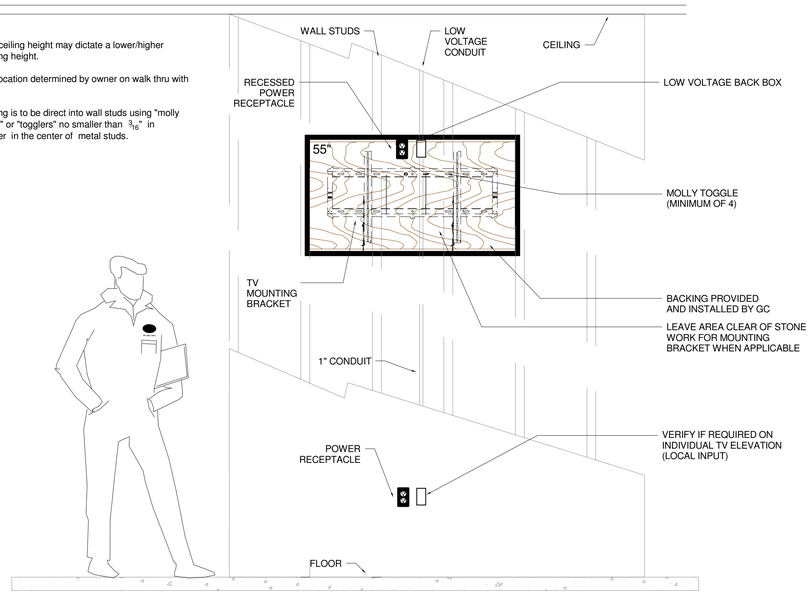
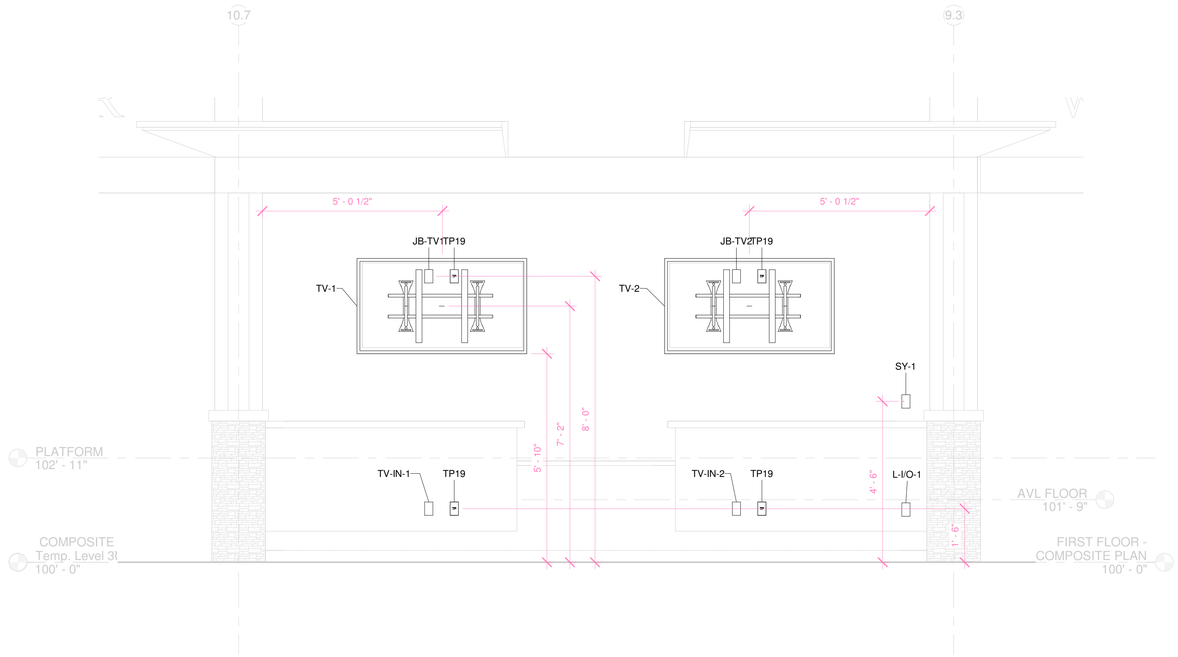
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/10/23

SHEET NUMBER

AV-1.6



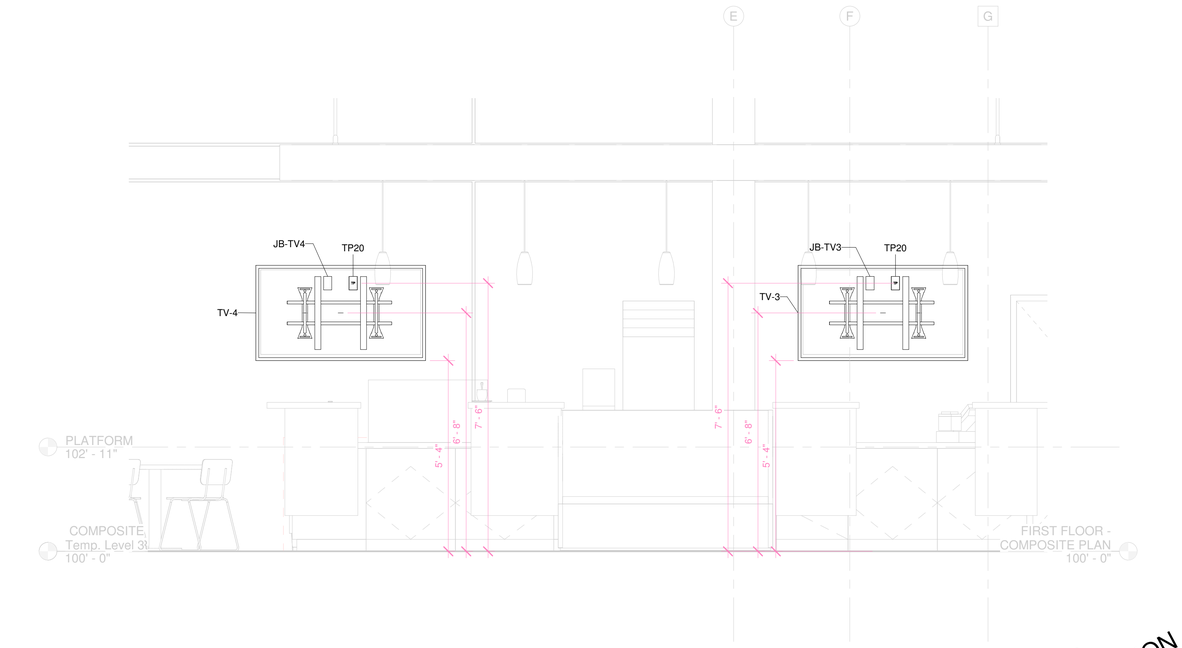
5 TYPICAL TV
3/4" = 1'-0"



1 TV-1 & TV-2
1/2" = 1'-0"

TV SCHEDULE			
LABEL	TV SIZE	LOCATION	ELEVATION
MTV-1	65" TV	AVL	4' - 10"
MTV-2	65" TV	AVL	4' - 10"
TV-1	65" TV	LOBBY	7' - 2"
TV-2	65" TV	LOBBY	7' - 2"
TV-3	65" TV	CAFE	6' - 8"
TV-4	65" TV	CAFE	6' - 8"
TV-5	65" TV	GREEN ROOM	7' - 2"
TV-6	65" TV	CLASS/CONFERENCE	5' - 6"
TV-7	65" TV	PASTORS OFFICE	7' - 2"
TV-8	65" TV	CHECK-IN AREA	7' - 2"
TV-9	65" TV	OFFICE	7' - 2"
TV-10	65" TV	FIN. OFFICE	7' - 2"
TV-11	65" TV	OFFICE	7' - 2"
TV-12	65" TV	RECEPTION	7' - 2"
TV-17	65" TV	CHECK-IN AREA	7' - 2"
TV-18	65" TV	CHECK-IN AREA	7' - 2"

Grand total: 16



2 TV-3 & TV-4
1/2" = 1'-0"

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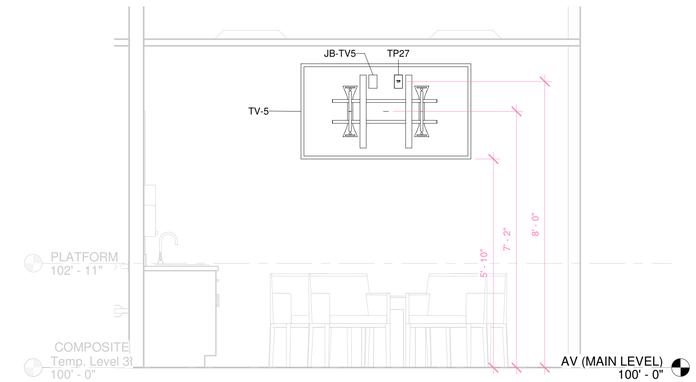
ARCHITECT

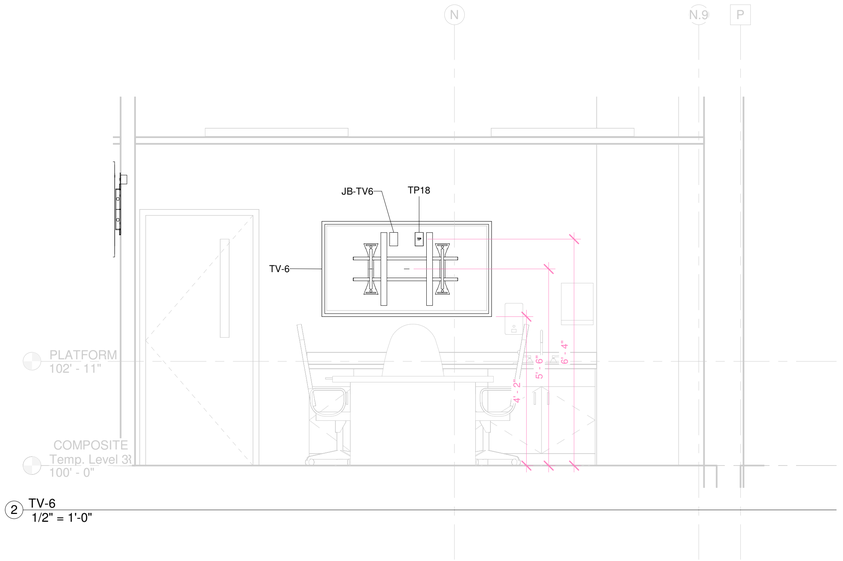
SHEET TITLE
TV ELEVATIONS (1)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/13/23

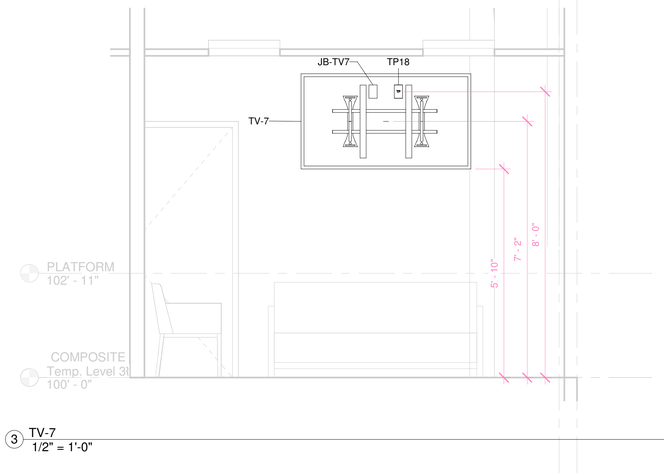
SHEET NUMBER
AV-2.1



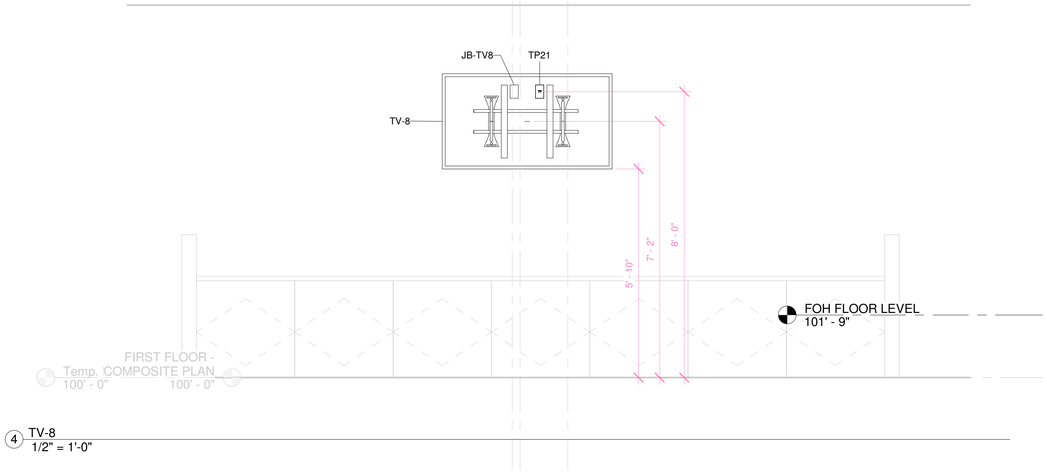
1 TV-5
1/2" = 1'-0"



2 TV-6
1/2" = 1'-0"



3 TV-7
1/2" = 1'-0"



4 TV-8
1/2" = 1'-0"

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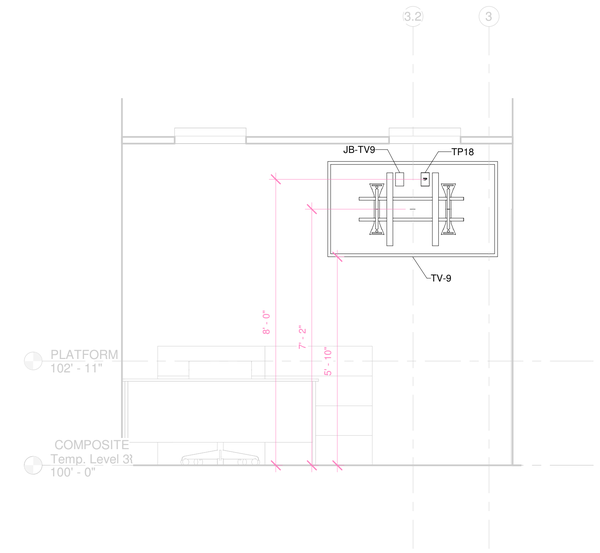
ARCHITECT

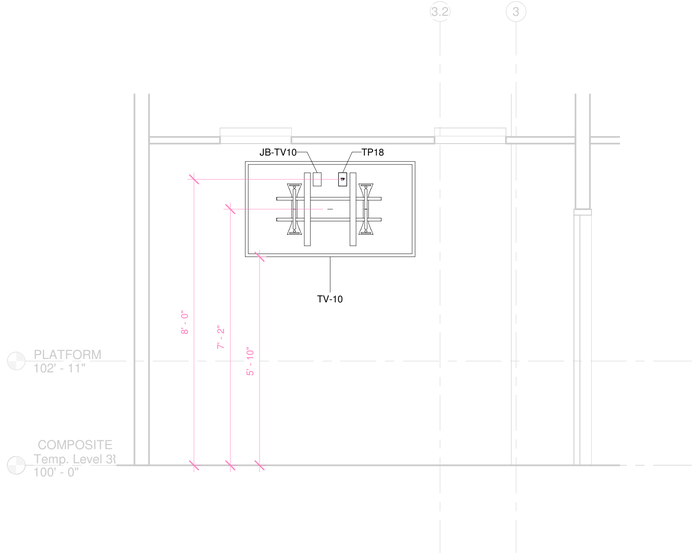
SHEET TITLE
TV ELEVATIONS (2)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/01/23

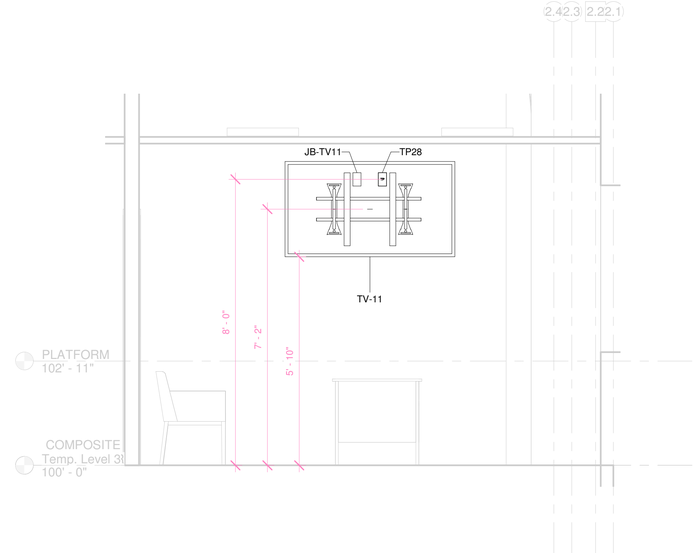
SHEET NUMBER
AV-2.2



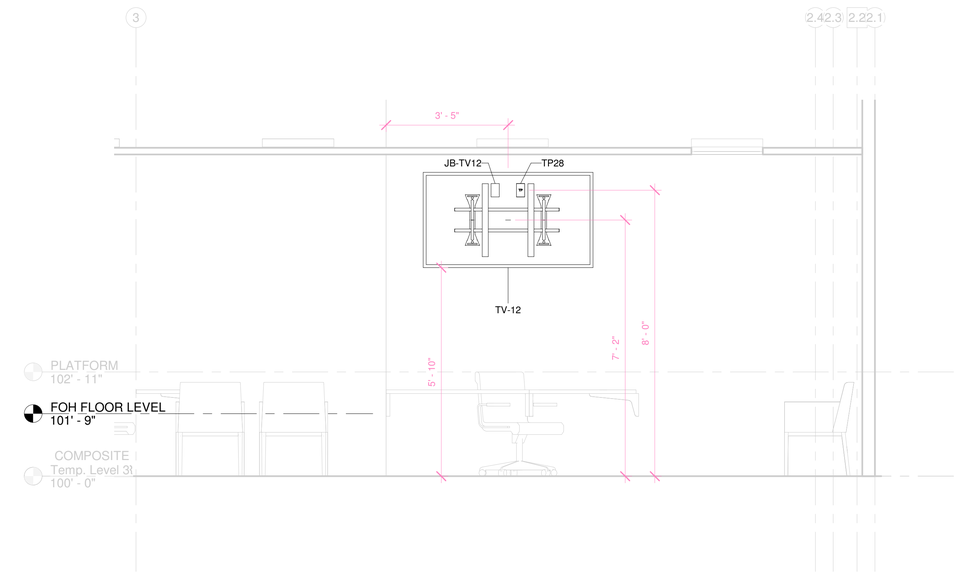
1 TV-9
1/2" = 1'-0"



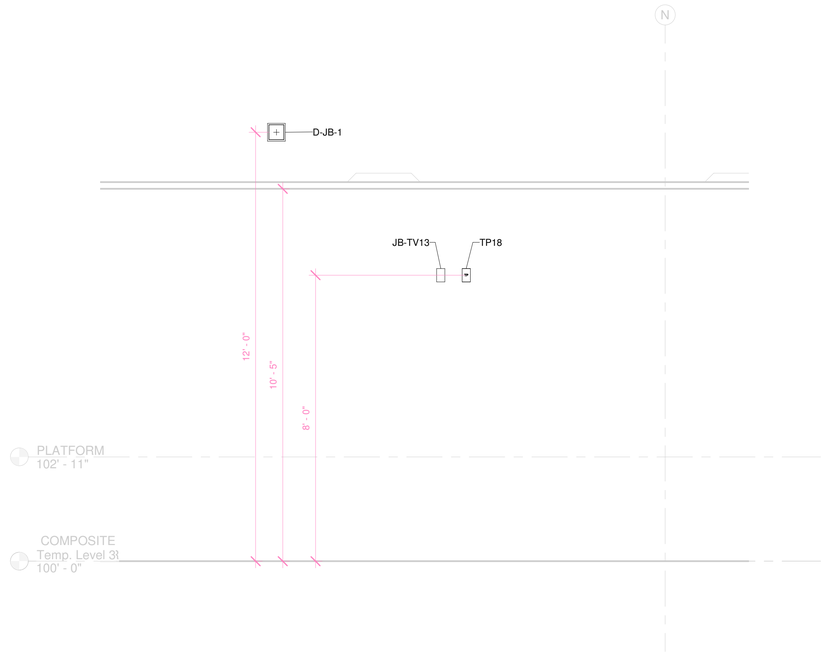
2 TV-10
1/2" = 1'-0"



3 TV-11
1/2" = 1'-0"



4 TV-12
1/2" = 1'-0"



5 TV-13
1/2" = 1'-0"

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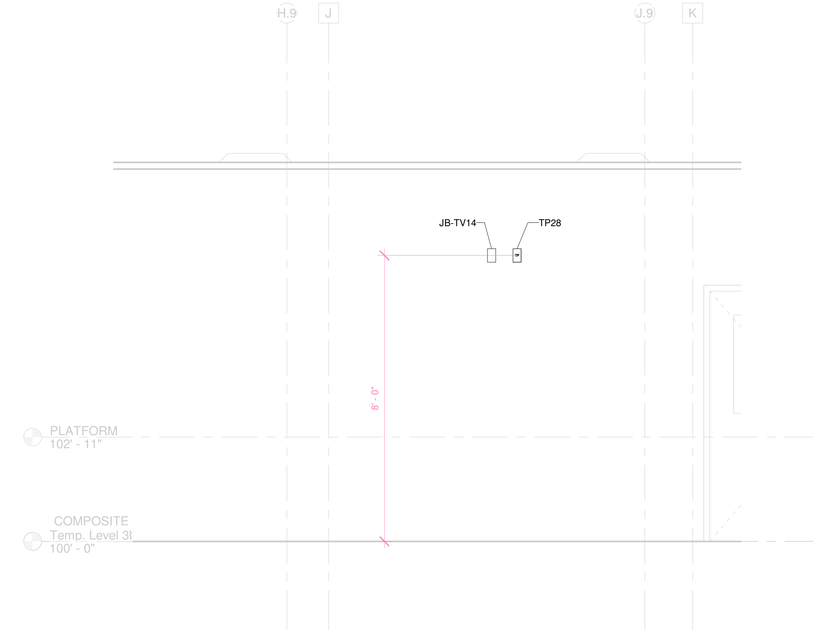
DATE

ARCHITECT

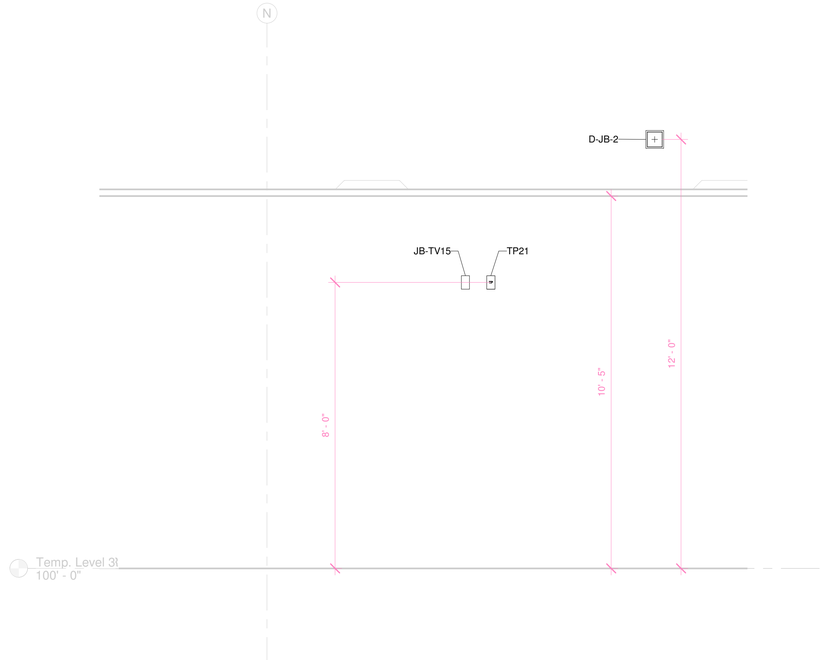
SHEET TITLE
TV ELEVATIONS (3)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/09/23

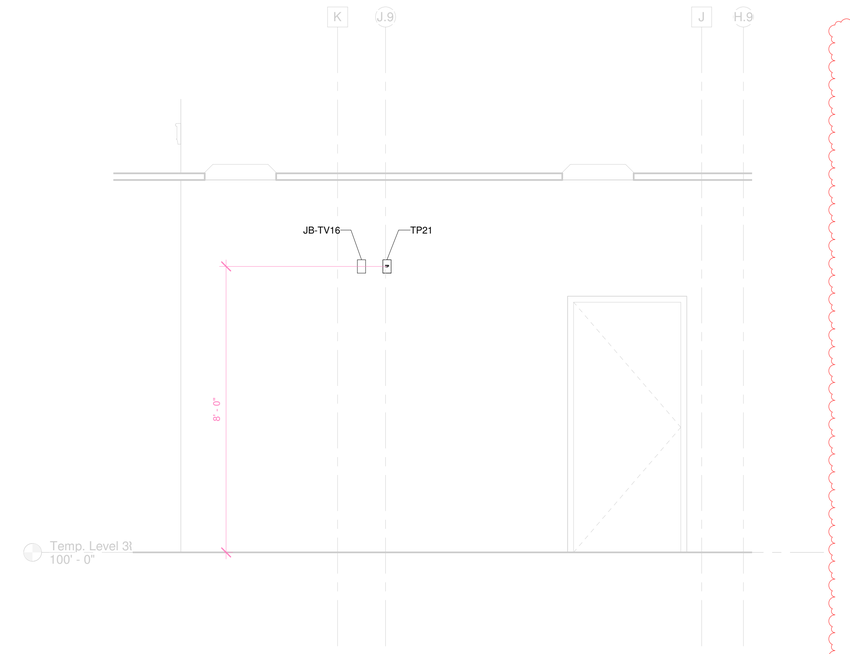
SHEET NUMBER
AV-2.3



1 TV-14
1/2" = 1'-0"



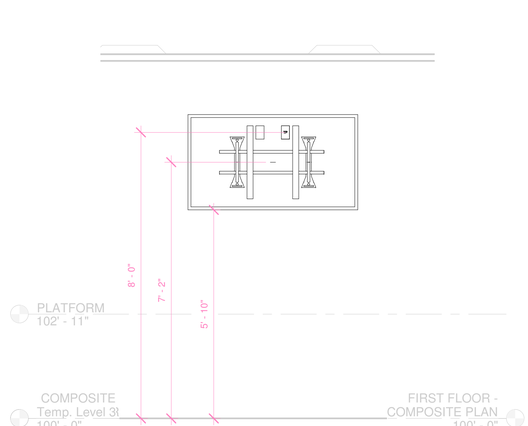
2 TV-15
1/2" = 1'-0"



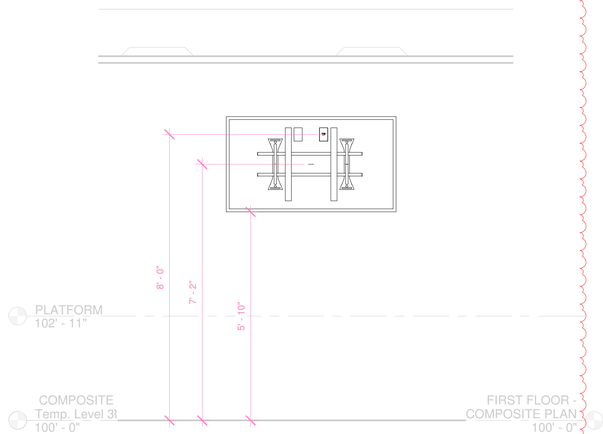
3 TV-16
1/2" = 1'-0"

A

ADD TV ELEVATIONS



4 TV-17
1/2" = 1'-0"



5 TV-18
1/2" = 1'-0"

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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

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CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

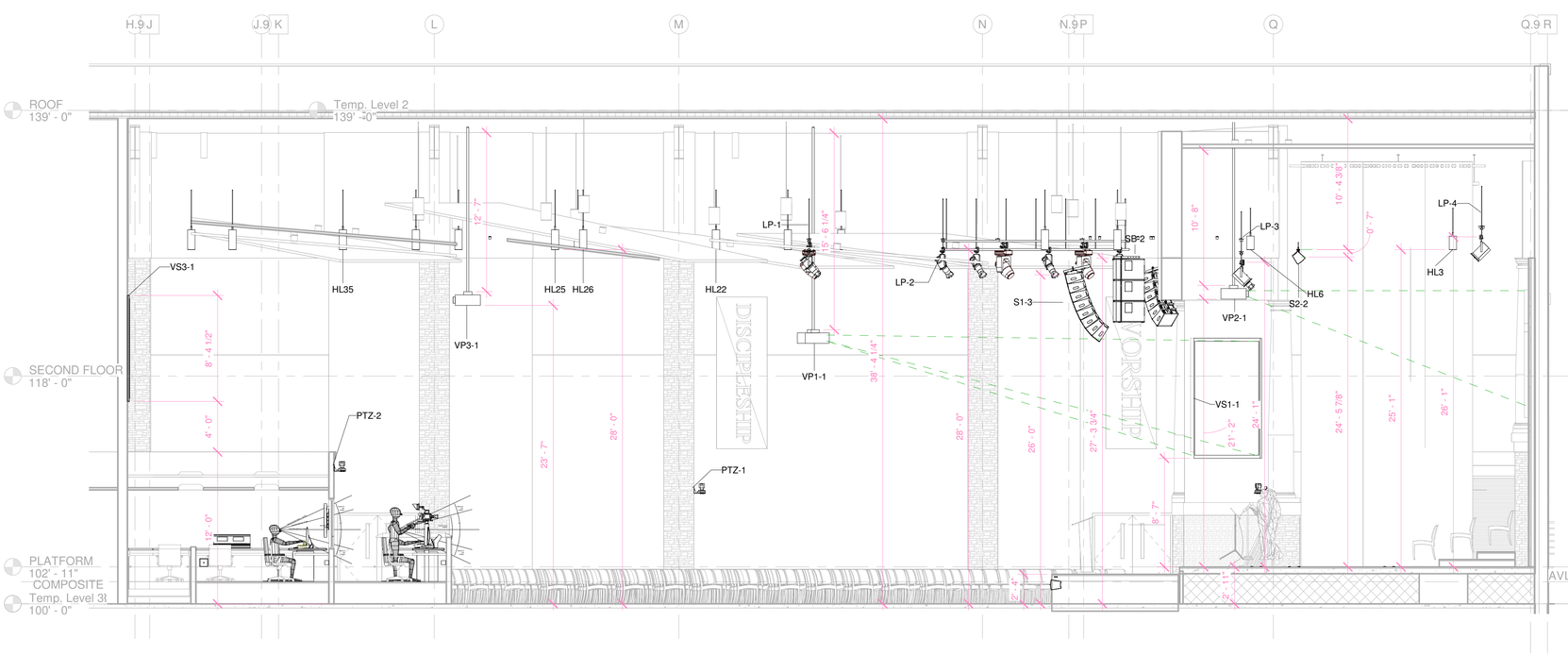
SHEET TITLE

TV ELEVATIONS (4)

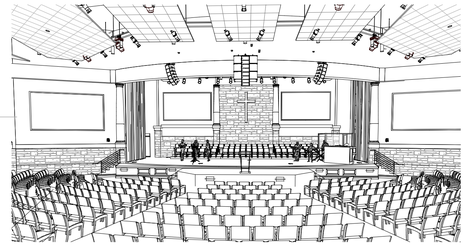
ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/09/23

SHEET NUMBER

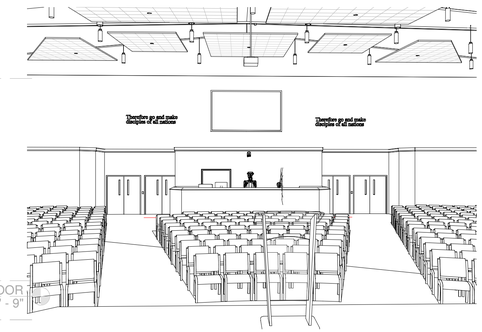
AV-2.4



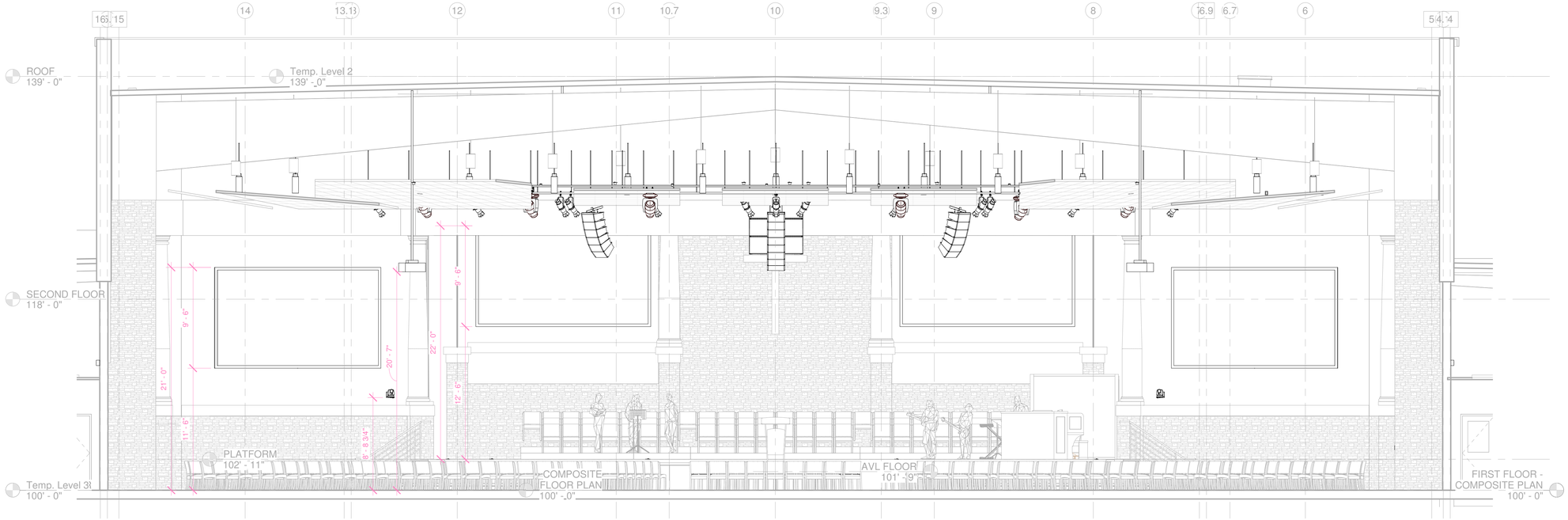
1 Auditorium Elevation 1
3/16" = 1'-0"



3 3D View 2



4 3D View 3



2 Auditorium Elevation 2
3/16" = 1'-0"

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
888-448-7890 ● WWW.CSDUS.COM

AVL Consultant:
BRENT MULLETT
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888-448-7890

SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

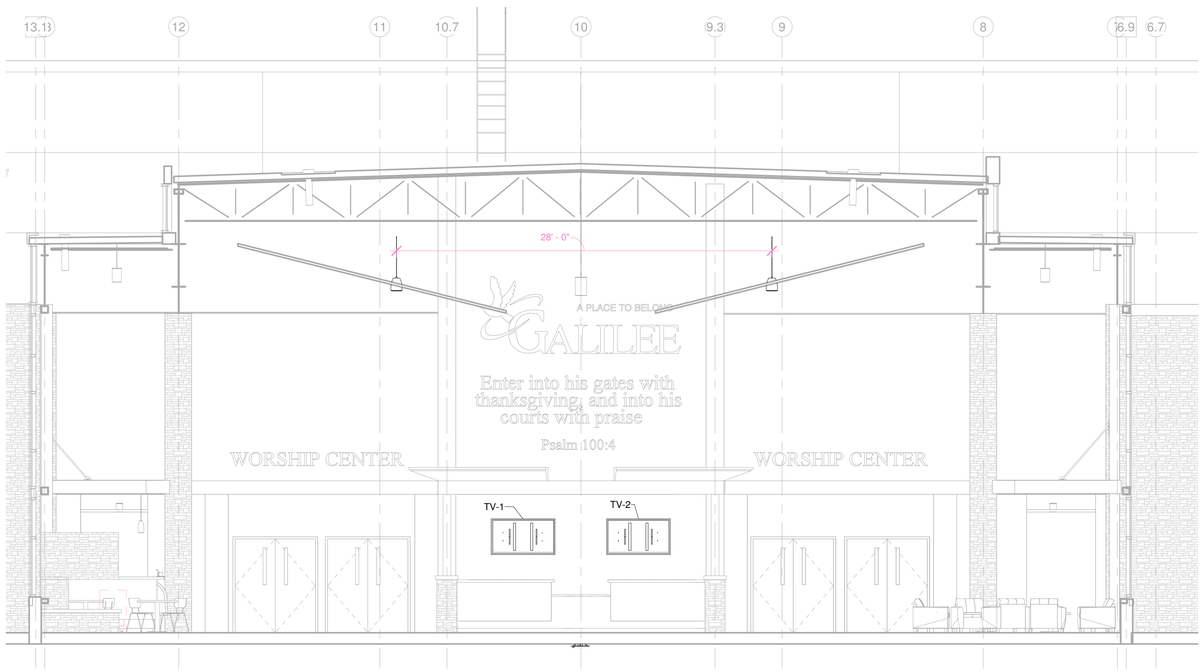
SHEET TITLE

ELEVATIONS (1)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/13/23

SHEET NUMBER

AV-3.1



1 Lobby ELevation
3/16" = 1'-0"

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No	DATE	DESCRIPTION

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE

ELEVATION (2)

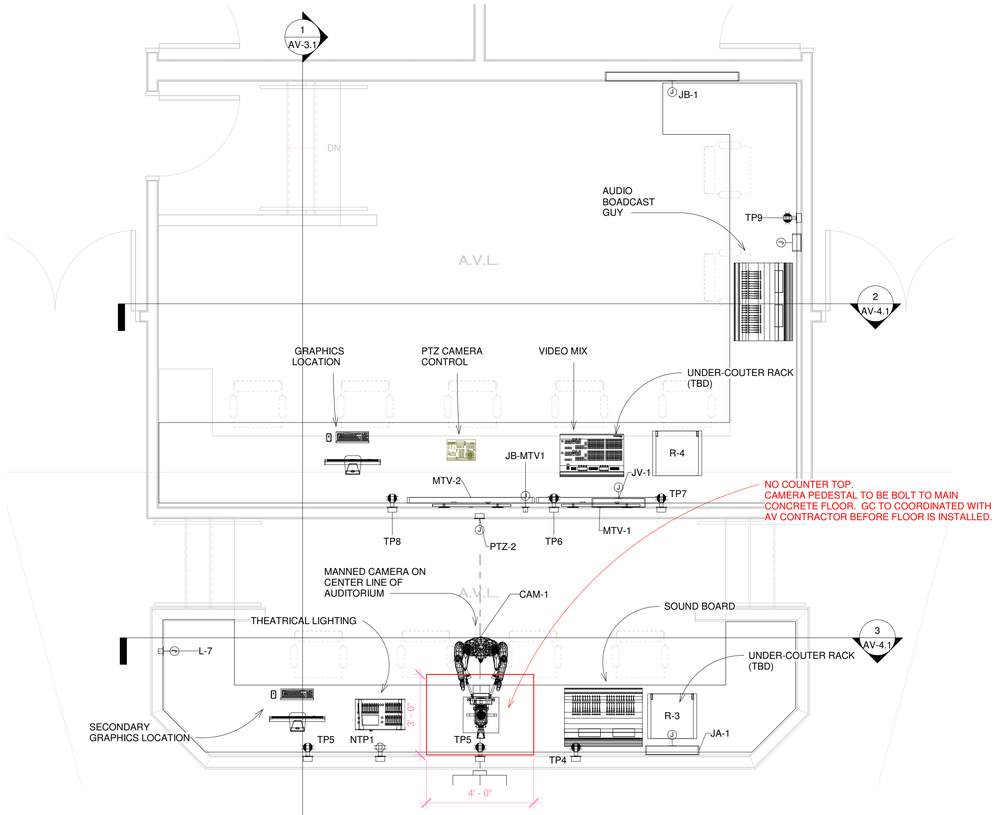
ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	11/01/23

SHEET NUMBER

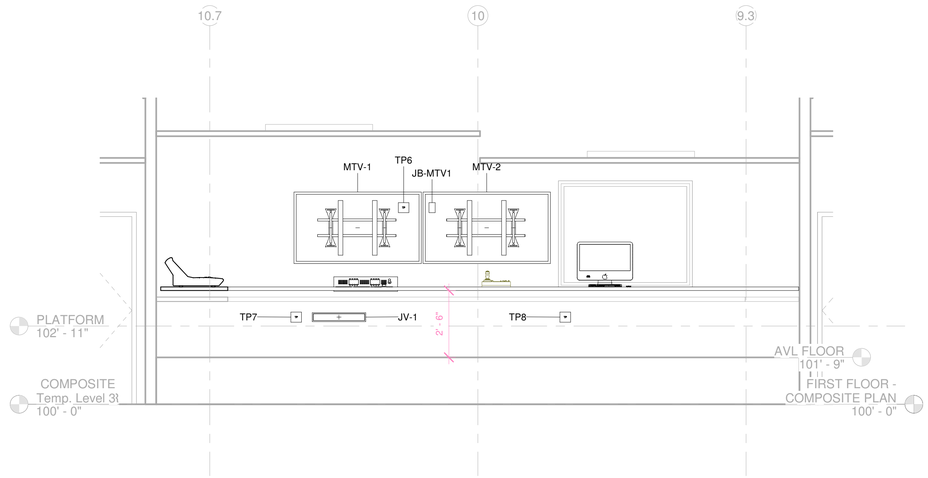
AV-3.2

1. 2" GAP BETWEEN COUNTER TOP AND WALL, BY OTHERS
2. 30" CLEARANCE BETWEEN BOTTOM OF COUNTER TOP AND FINISHED FLOOR, BY OTHERS
3. ANGLED TOP OF TECH BOOTH FRONT WALL TO DISSUDE DRINK ON LEDGE, BY OTHERS
4. ADD WIRE MANAGEMENT AS NEEDED FROM JUNCTION BOX TO AV EQUIPMENT, BY AVC

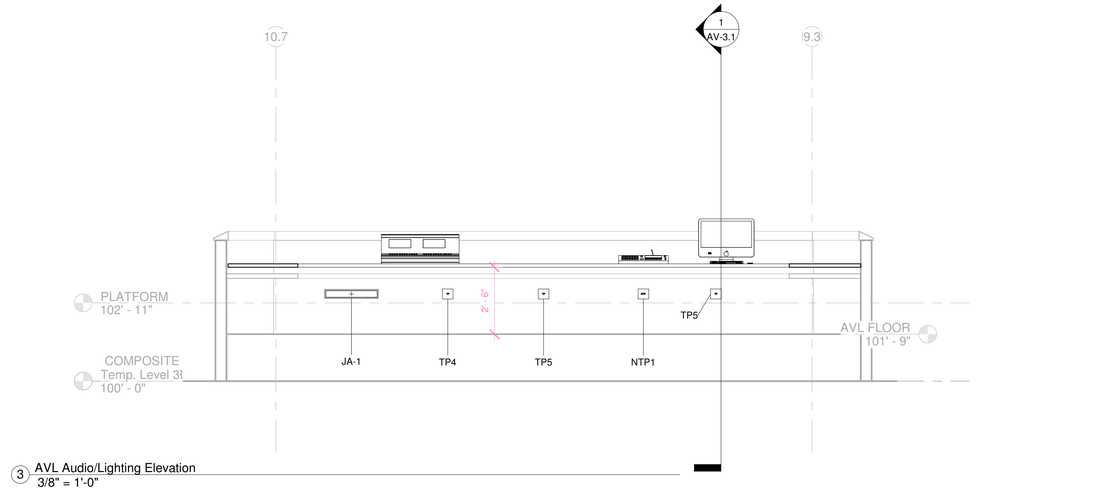
TECH BOOTH NOTES
-



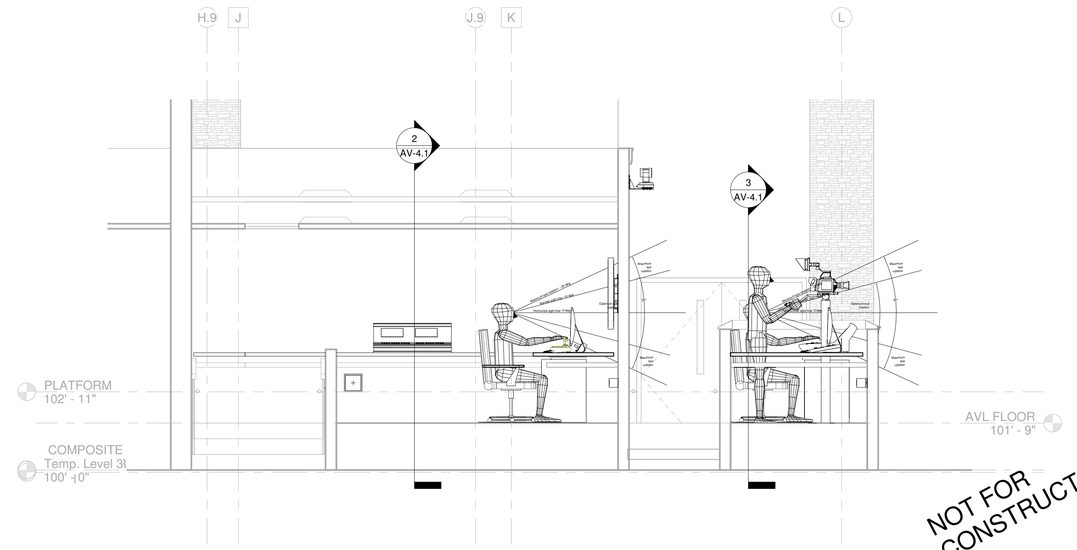
1 Enlarged AVL
3/8" = 1'-0"



2 AVL Video Elevation
3/8" = 1'-0"



3 AVL Audio/Lighting Elevation
3/8" = 1'-0"



4 AVL Elevation
3/8" = 1'-0"

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

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2101 Shadyside Ave
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CLIENT SIGN-OFF APPROVAL

INITIALS:

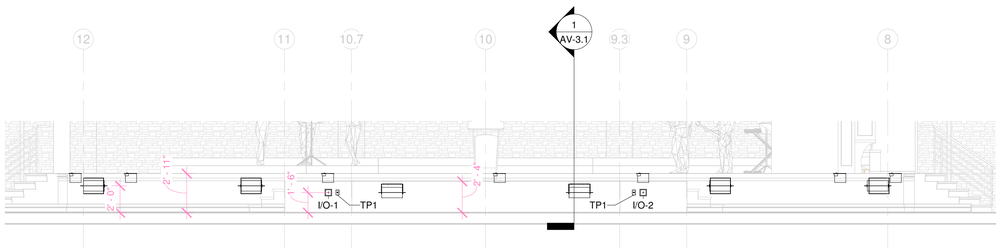
DATE

ARCHITECT

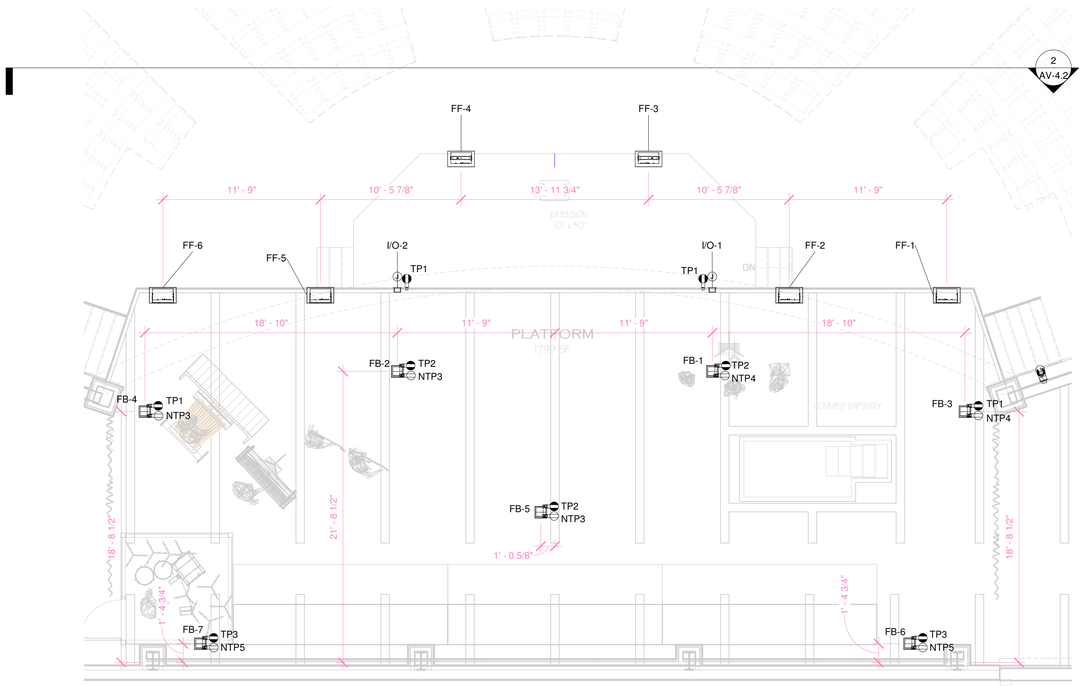
SHEET TITLE
ENLARGED VIEWS (1)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

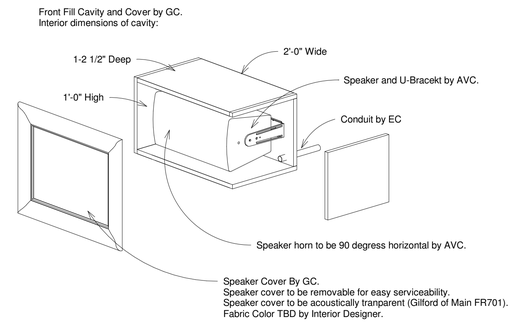
SHEET NUMBER
AV-4.1



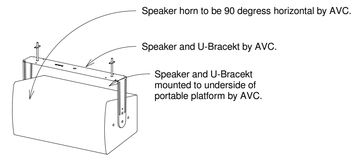
2 Platform Elevation
3/16" = 1'-0"



1 Enlarged Platform
3/16" = 1'-0"



3 FF-1, FF-2, FF-5 & FF-6
1" = 1'-0"



4 FF-3 & FF-4
1" = 1'-0"

A

Update speaker type and front fill cavity dimensions

JBL PROFESSIONAL

AC18/95 Compact 2-way Loudspeaker System with 1 - 8" LF

Key Features:

- Compact enclosure
- 205 mm (8 in) LF transducer
- 90° x 50° Progressive Transition™ Field Rotatable Waveguide with a 25 mm (1 in) exit compression driver
- Dual Neutrik NL4 connectors plus screw terminals
- Multiple Attachment Points for Ultimate Flexibility

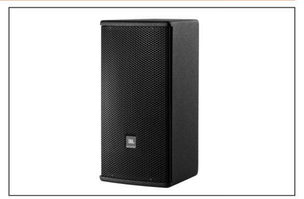
Applications:

- Performing Arts Facilities
- Houses of Worship
- Sports Facilities
- Multi Media Spaces
- Retail Spaces
- Presentation Suites
- Educational Facilities
- Portable Audio-Visual Systems

The AC18/95 is a compact full-range loudspeaker system designed to provide maximum bandwidth and SPL in a single system package and yet be visually unobtrusive. The enclosure design allows for installation very close to walls and ceilings making it an ideal choice for under balcony, column, or wall mounting. The high frequency device is a 1" exit compression driver integrated into a newly designed 90° x 50° rotatable PT™ (Progressive Transition) waveguide providing even coverage throughout the intended listening area. The combination exhibits smooth power response resulting in extremely natural voicing. The AC18/95 utilizes an 8" Symmetrical Field Geometry (SFG™) LF Transducer with a copper-clad aluminum edge wound 2.5" voice coil and a copper-clad pole piece that improves performance by reducing voice coil inductance and distortion.

The rugged multi-ply hardwood enclosure is designed to work in the vertical plane as well as in the horizontal plane. Mounting points are provided for an optional U-bracket and for an OmniMount® type bracket. The AC18/95 is also equipped with attachment points located on the bottom of the enclosure for a stand mount accessory.

The rugged plywood enclosure features JBL's textured DuraFlex™ finish and is equipped with a heavy duty powder coated steel, foam-backed grille.



Specifications:

System:	
Frequency Range (-10 dB):	52 Hz - 20 kHz
Frequency Response (+/-3 dB):	63 Hz - 19 kHz
Horizontal Coverage:	90°
Vertical Coverage:	50°
Directivity Factor (Q):	8 (avg. 500 Hz - 16 kHz)
Directivity Index (DI):	9 dB (avg. 500 Hz - 16 kHz)
System Sensitivity[1]:	93 SPL dB/1W/1m
Rated Maximum SPL (1m)[2]:	117 dB
System Nominal Impedance:	8 Ohms
Long Term System Power Rating[3] (Continuous/Program/Peak):	250 W / 500 W / 1000 W
AES Standard Power Rating[3]:	375 W
Crossover:	2.1 kHz
Transducers:	
Low Frequency Driver:	1 x JBL 2280, 205 mm (8 in) SFG™ driver with 64 mm (2.5 in) edge wound voice coil
High Frequency Driver:	1 x 2404H-1 25 mm (1 in) exit compression driver, 38 mm (1.5 in) voice coil
High Frequency Waveguide:	PT D93HF-1 (Field Rotatable)
Physical:	
Enclosure:	12 mm and 15 mm exterior grade multi-ply hardwood plywood
Suspension Attachment:	6 x M8 points; 3 top, 3 bottom, 2 rear. 4 x M6 rear for OmniMount® 30.0 and MultiMount® MM-022-BT, MM-026-BT, or MM-029-CM.
Finish:	Black DuraFlex™ finish. White (WH) available upon request.
Optional Weather Resistant Version:	WRC & WRX available upon request.
Grille:	Powder coated 16 gauge perforated steel, acoustically transparent foam backing (grille cloth backing on white units).
Input Connectors:	Neutrik Speakon® NL4 (2 wired in parallel), plus CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AGW) wire or max width 9 mm (.375 in) spade lugs. NL4's +1/-1 in parallel with barrier strip (+2/-2 loop through).
Environmental Specifications:	Mil-Std 810, IP43 per IEC529. For higher environmental ratings, use WRC or WRX.
Dimensions (H x W x D):	469.9 x 257.5 x 254.0 mm (18.5 x 9.4 x 10.0 in)
Weight:	12.8 kg (28.2 lb)
Optional Accessories:	MTG-AS U Bracket MTG-AS90 SLK x 38 mm Tee Knob Thumbscrew Kit for use with BMB-200L or AdAM 195/8 stand mount accessory.

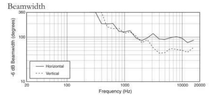
[1]At axis SPL measured in far field and referenced to 1 meter for inverse square law. Average from 300 Hz to 16 kHz.
[2]Calculated based on system sensitivity and continuous power handling.
[3]IEC shaped pink noise, 6 dB crest factor, 100 hour duration.
[4]AES standard 2 hour duration, with IEC system noise spectrum.

Specifications listed above are obtained in free field. Performance will be shortened from direct exposure to the elements. WRX for direct exposure to extreme environments, such as tropical or beach, or in areas with salt air, extreme high humidity or rapid changes in temperatures. See WRC/WRX configuration sheet for details.

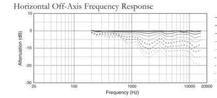
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are a routine expression of that philosophy.

AC18/95 Compact 2-way Loudspeaker System with 1 - 8" LF

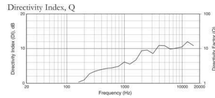
Beamwidth



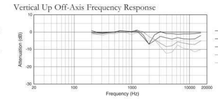
Horizontal Off-Axis Frequency Response



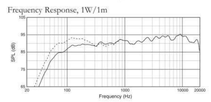
Directivity Index, Q



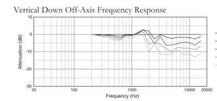
Vertical Up Off-Axis Frequency Response



Frequency Response, 1W/1m



Vertical Down Off-Axis Frequency Response

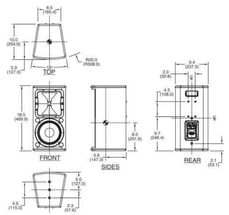


Dimensions

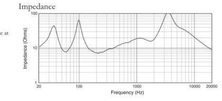
Dimensions in "in" (mm)

For more detailed dimensional information, refer to Application Data Sheet.

For AE & AE Compact Series WRC and WRX versions please visit the JBL Pro website at: http://www.jblpro.com/www/products/installed-sound/ae-series#VVkVVlvLlV to download Drawings.



Impedance



Measurement obtained in full passive crossover mode with no signal processing.

Nominal impedance is not measured data.

Attachment Points For Third Party Accessories:

Bottom: Ultimate Support™ BMB-200Kg, Konig & Meyer 195/8

Rear: OmniMount® 30.0, Konig & Meyer 24470 or 24480, MultiMount® MM-022-BT, MM-024-BT, MM-029-CM

JBL PROFESSIONAL

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Northridge, California 91329 U.S.A.

H A Harman International Company

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SSAC18/95-00
CSM 1AG
8/16

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5 Front Fill Speaker (JBL AC18/95)
12" = 1'-0"

CUSTOM SOUND DESIGNS
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AVL Consultant:
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

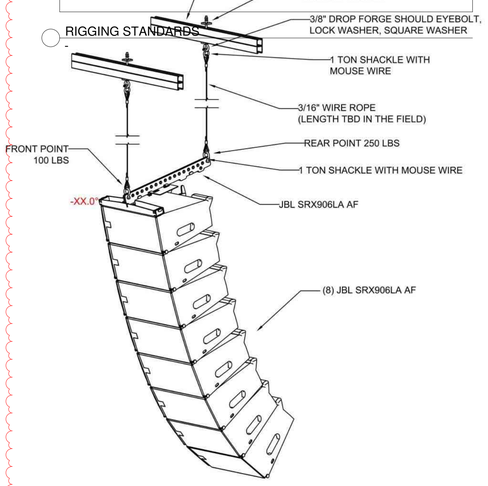
SHEET TITLE
ENLARGED VIEWS (2)

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/30/23

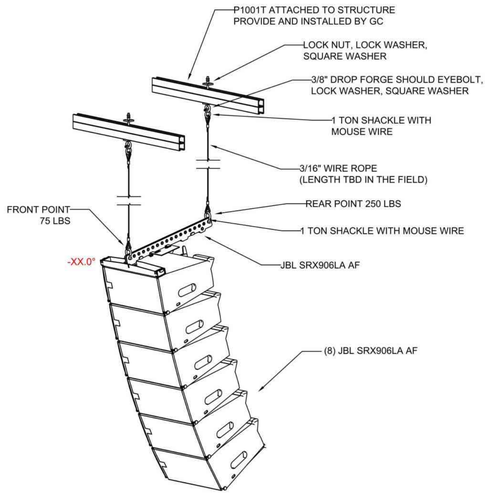
SHEET NUMBER
AV-4.2

NOTE: VERIFY FINAL SPEAKER POSITIONING IN JBL LAC3

1. 5:1 SAFETY FACTOR RATING SHALL BE USED ON ALL RIGGING COMPONENTS.
2. ALL SHACKLES, SHOULDER EYE-BOLTS, TURN BUCKLES, ETC. SHALL BE FORGED ALLOY-STEEL GRADE PRODUCTS AND TO STRUCTURE
3. ALL NUTS AND BOLTS USED SHALL BE SAE GRADE 8 RATED.
4. THREADED ROD USED SHALL BE HARDENED B7 RATED.
5. WIRE ROPE USED SHALL BE GALVANIZED IWRC 7 STRAND 19 WIRE (7x19) CLASS RATED.

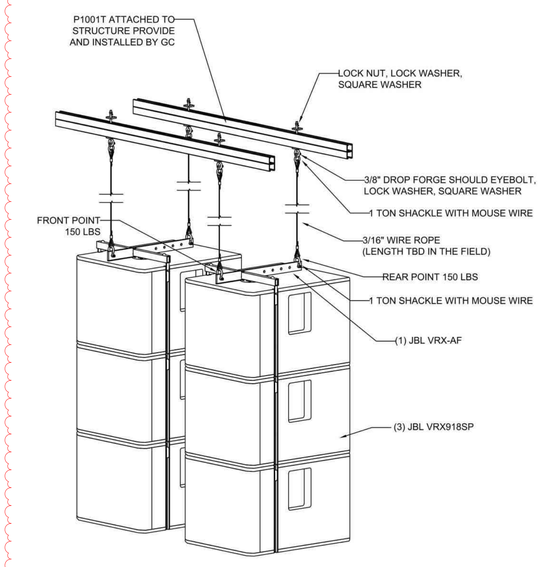


1 S1-3(JBL FLOWN ARRAY)
3/4" = 1'-0"



2 S1-1 & S1-2 (JBL FLOWN ARRAY)
3/4" = 1'-0"

A
A



4 SB-x (FLOWN SUBWOOFERS)
3/4" = 1'-0"

JBL PROFESSIONAL

VRX918SP 18" Bass Reflex Powered Subwoofer

Key Features:

- Built-in JBL DrivePack® DPC-2 amplifier module designed by Crown provides 1500 Watts of peak power. DSP based resident input module provides system optimization, EQ and crossover functionality.
- 18 inch, 2268F dual voice coil, neodymium magnet Differential Drive® woofer for high-power capacity and light-weight.
- Integral rigging hardware for simple connection of enclosures and optional array frame.
- 20 mm threaded pole socket for solid, secure satellite speaker mounting.
- Large port area for reduced distortion.

Applications:

- Music playback and sound reinforcement.
- Entertainers, corporate A/V professionals and sound system hire companies.
- Permanent Installation.

The VRX918SP is a powered, suspendable subwoofer system containing a 2268F neodymium magnet, patented Differential Drive®, 18" woofer in a front-loaded, vented enclosure. The VRX918SP was designed specifically for use in arrays with the VRX932LAP Line Array speaker and VRX-AF Array Frame. In addition it may also be used in arrays consisting entirely of VRX918SP subwoofers.

Equally at home in ground stacked applications, the VRX918SP is equipped with a top-mounted, threaded, 20 mm socket that can receive the optional SS4-BK pole. This adjustable height pole can be used to mount speakers equipped with standard 36 mm pole sockets and weighing up to 50 kg (100 lb). The threaded socket minimizes buzzing and rattling and assures that the pole will be secure and straight.

The enclosure is constructed of top quality birch plywood, coated in JBL's rugged DuraFlex™ finish and is heavily braced to maximize low-frequency performance. The attractive CNC-machined, 16-gauge steel grille is internally lined with acoustically transparent foam to provide additional driver protection and give a very professional appearance. The rear of the enclosure is fitted with T-nuts which may be used to attach the optional WK-4S caster kit.

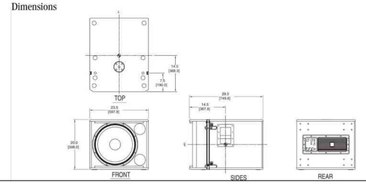
Specifications:

Frequency Range (-10 dB):	31 Hz - 220 Hz
Frequency Response (±3 dB):	34 Hz - 220 Hz
Maximum Peak Output:	126 dB SPL at 1m
LF Driver:	1 x JBL 2268FF 457 mm (18 in) dual voice coil Differential Drive® woofer with neodymium magnet
Bandpass Nominal Impedance:	LF: 2 x 2 ohms
DPC-2 Internal Amplification:	
Output (at nominal load):	1500 Watts Peak, 750 Watts Continuous
DPC-2 Output as (Continuous IEC shaped pink noise into rated load impedance):	LF: 750 Watts
DPC-2 Output Section:	LF: Dual-Bridged Technology™, Class D
Audio Input Connector:	XLR with loop through
User Controls:	Input Attenuator (0-10 dB); Selectable 80 Hz or 120 Hz Low Pass 80 Hz High-Pass enable/disable for XLR loop thru.
Signal Processing:	DSP based, resident in Input Module
System Management:	DSP based limiters for mechanical and thermal protection.
AC Power Operating Range:	90-132 VAC or 216-264 VAC, 50/60Hz
AC Line Voltage:	User selectable: 120V/240V (-15%, +10%)
AC Input Connector:	Neutrik PowerCon (NAC 3MPA)
AC Loop Through Connector:	Neutrik PowerCon (NAC 3MPB)
AC Current Requirements:	6A per system at 120V, 5A per system at 240V
Enclosure:	18 mm birch plywood.
Suspension / Mounting:	Optional VRX-AF line-array frame kit or 10 mm forged eyebolts
Finish:	Black DuraFlex™ finish
Grille:	Powder coated, black, 16-gauge perforated steel with acoustically transparent foam
Dimensions (H x W x D):	508 mm x 597 mm x 749 mm (20.0 in x 23.5 in x 29.5 in)
Net Weight:	38.5 kg (85 lb)
Optional Accessories:	VRX-AF array frame MKT18S-CVR: Pull-over padded cover (works with WK-4S) SS4-BK adjustable satellite speaker pole WK-4S Caster kit

*Measured with IEC-shaped noise in free field conditions.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

Dimensions



5 JBL VRX918SP

TECHNICAL SPECIFICATIONS

ACOUSTICAL

Frequency Range (-10 dB):	63 Hz-17 kHz (array preset)
(-3 dB):	70 Hz-15 kHz (array preset)
Coverage Pattern (-6 dB) Horizontal:	120 degrees nominal (500 Hz-16 kHz)
Vertical:	Varies with array size and configuration
Maximum Peak Output[1]:	134 dB
System Type:	Line Array, two-way active

TRANSDUCERS

Low Frequency:	(2) JBL 2186G, 6.5 in diameter, dual 2.0 in diameter voice coil, neodymium Differential Drive®
High Frequency:	(1) JBL 2432H-3, 1.5 in exit neodymium compression driver with 3 in voice coil

AUDIO INPUT

Input Type:	Balanced line level
Connectors:	(2) Neutrik XLR (IN/OUT)
Nominal Input Sensitivity:	+6 dBu (system starts limiting with broadband noise and music)
Maximum Input Level:	21 dBu
Input Impedance:	100 kΩ

AMPLIFIER

Type:	Class-D	
Number of Channels:	(2)	
Continuous Power[2]:	600 Watts	LF: 400 Watts | HF: 200 Watts
Peak Power[3]:	880 Watts	LF: 580 Watts | HF: 300 Watts
Cooling Type:	Convection, external aluminum heat sink, internal on-demand fan	

AC POWER

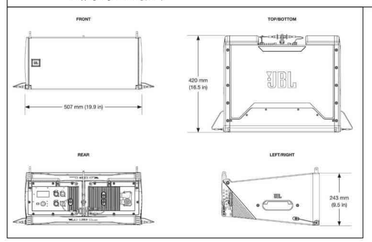
Voltage Range Nominal:	100-240 VAC, 50/60 Hz
Limits:	80-260 VAC, 50/60 Hz
Connectors:	Dual (IN/OUT) Neutrik powerCON TRUE1 TOP[4]

CURRENT DRAW

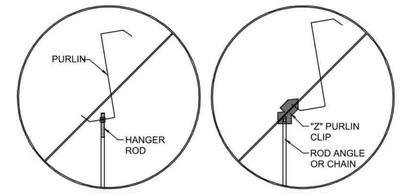
	120 V	208 V	240 V
Standby:	0.2 A	0.1 A	0.1 A
Idle:	0.3 A	0.2 A	0.2 A
Continuous[2]:	1.3 A	0.8 A	0.7 A
Maximum Instantaneous Peak[3]:	7.0 A	5.4 A	4.7 A
Peak Inrush[3]:	2.2 A	3.6 A	4.3 A

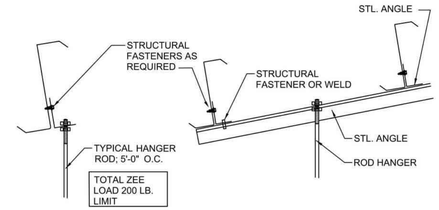
PHYSICAL

Enclosure:	Polypropylene, four integral recessed handholds
IP Rating[1]:	IP54
Suspension:	Three-point captive suspension plates, quick release pins, steel with anti-corrosion coating
Inter-enclosure Angle (deg):	0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Grille:	Powder coated 1.5 mm (16-gauge) hex perforated steel with acoustically transparent black cloth backing
Dimensions (H x W x D):	343 mm x 507 mm x 420 mm 13.5 in x 19.9 in x 16.5 in
Net Weight:	16.8 kg (37 lbs)
Shipping Weight:	19.4 kg (43 lbs)

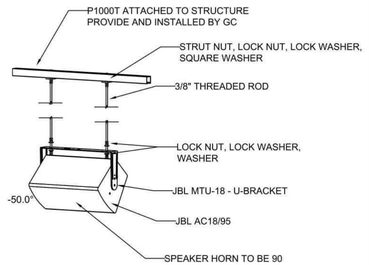


3 JBL SRX906LA SPEC SHEET





8 PURLIN SUPPORT
NOT TO SCALE



6 S3-x(FLOWN CHOIR MONITOR)
3/4" = 1'-0"

JBL PROFESSIONAL

AC18/95 Compact 2-way Loudspeaker System with 1 - 8" LF

Key Features:

- Compact enclosure
- 205 mm (8 in) LF transducer
- 90° x 50° Progressive Transition™ Field Rotatable Waveguide with a 25 mm (1 in) exit compression driver
- Dual Neutrik NL4 connectors plus screw terminals
- Multiple Attachment Points for Ultimate Flexibility

Applications:

- Performing Arts Facilities
- Houses of Worship
- Sports Facilities
- Multi Media Spaces
- Retail Spaces
- Presentation Suites
- Educational Facilities
- Portable Audio-Visual Systems

The AC18/95 is a compact full-range loudspeaker system designed to provide maximum bandwidth and SPL in a single system package and yet be visually unobtrusive. The enclosure design allows for installation very close to walls and ceilings making it an ideal choice for under balcony, column, or wall mounting. The high frequency device is a 1" exit compression driver integrated into a newly designed 90° x 50° rotatable PT™ (Progressive Transition) waveguide providing even coverage throughout the intended listening area. The combination exhibits smooth power response resulting in extremely natural voicing. The AC18/95 utilizes an 8" Symmetrical Field Geometry (SFG™) LF Transducer with a copper-clad aluminum edge wound 2.5" voice coil and a copper-clad pole piece that improves performance by reducing voice coil inductance and distortion.

The rugged multi-ply hardwood enclosure is designed to work in the vertical plane as well as in the horizontal plane. Mounting points are provided for an optional U-bracket and for an OmniMount® type bracket. The AC18/95 is also equipped with attachment points located on the bottom of the enclosure for a stand mount accessory.

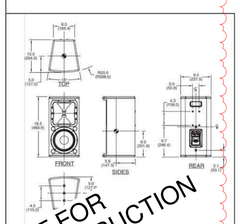
The rugged plywood enclosure features JBL's textured DuraFlex™ finish and is equipped with a heavy duty powder coated steel, foam-backed grille.

Specifications:

System:	
Frequency Range (-10 dB)[1]:	32 Hz - 20 kHz
Frequency Response (+/-3 dB)[1]:	43 Hz - 19 kHz
Horizontal Coverage:	90°
Vertical Coverage:	50°
Directivity Factor (Q):	8 (avg. 300 Hz - 16 kHz)
Directivity Index (DI):	9 dB (avg. 300 Hz - 16 kHz)
System Sensitivity[2]:	93 SPL dB/1W/1m
Rated Maximum SPL (1m)[3]:	117 dB
System Nominal Impedance:	8 Ohms
Long-Term System Power Rating[4]: (Continuous/Program/Peak):	250 W / 500 W / 1000 W
AES Standard Power Rating[5]:	375 W
Crossover:	2.3 kHz
Transducers:	
Low Frequency Driver:	1 x JBL 2268L 205 mm (8 in) SFG™ driver with 64 mm (2.5 in) edge wound voice coil
High Frequency Driver:	1 x 2408H-1 25 mm (1 in) exit compression driver, 38 mm (1.5 in) voice coil
High-Frequency Waveguide:	PT 1091SF-1 (Field Rotatable)
Physical:	
Enclosure:	12 mm and 15 mm exterior grade multi-ply hardwood plywood
Suspension Attachment:	6 x M8 points; 1 top, 3 bottom, 2 rear. 4 x M6 rear for OmniMount® 3610 and MultiMount® MM-022-BT, MM-024-BT, or MM-026-CM.
Finish:	Black DuraFlex™ finish, White (-WH) available upon request.
Optional Weather Resistant Versions:	WRC & WRX available upon request
Grille:	Powder coated 16 gauge perforated steel, acoustically transparent foam backing (grille cloth backing on white units)
Input Connectors:	Neutrik Speakon NL4 (2 wired in parallel), plus CE-compliant covered barrier strip terminals. Barrier terminals accept up to 3.2 sq mm (10 AWG) bare wire or spade lugs. Use 4 mm spade lugs. NL4's #1/-1 is paralled with barrier strip (1/2-) loop-through.
Environmental Specifications:	Mil-Std 810G IPX3 per IEC529. For higher environmental ratings, use WRC or WRX.
Dimensions (H x W x D):	465.9 x 257.3 x 254.0 mm (18.3 x 10.1 x 10.0 in)
Weight:	12.8 kg (28.2 lb)
Optional Accessories:	MTU-18 U-Bracket 3024AD-001, 300 x 38 mm Tilt Knob-Thumbscrew Kit for use with BMB-2036 or K&M 19178 stand mount accessory.

[1]At axis SPL measured in far field and referenced to 1 meter by inverse square law. Average from 300 Hz to 16 kHz.
[2]Calculated based on system sensitivity and continuous power handling.
[3]IEC shaped pink noise, 6 dB crest factor, 100 hour duration.
[4]AES standard 2 hour duration, with IEC system noise spectrum.
[5]WRC for outdoor placement where the loudspeaker will be sheltered from direct exposure to the elements. WRX for direct exposure to the elements including rain, snow, blowing dust, or in areas with salt air, extreme high humidity or rapid changes in temperatures. See WRC/WRX configuration sheet for details.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are a routine expression of that philosophy.



NOT FOR CONSTRUCTION

7 JBL AC18/95 SPEC SHEET

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
888-448-7890 ■ WWW.CSDUK.COM

AVL Consultant:
BRENT MULLETT
BRENT@CSDUS.COM
888-448-7890

SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

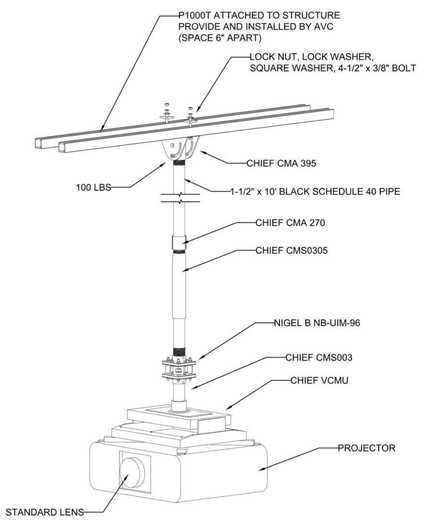
DATE

ARCHITECT

SHEET TITLE
SPEAKER DETAILS

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

SHEET NUMBER
AV-5.1



1 VP1-x(EPSON
1" = 1'-0"

EPSON
EXCEED YOUR VISION

EB-PU2213B 13,000-Lumen 3LCD
Laser Projector with 4K Enhancement

Projectors
Large Venue

Specifications

Projection System High-aperture Epson 3LCD, 3-chip technology
Projection Method Front/rear/ceiling mount
Driving Method Poly-silicon TFT Active Matrix
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Signal Input Maximum Display Resolution: 4096 x 2160 (resizing display); Display Resolution: 1920 x 1200 pixels
Resolution on Screen WUXGA with 4K Enhancement[1]
1920 x 1200 pixels
Resolution on Screen WUXGA with 4K Enhancement[1]
4.6 million pixels
Aspect Ratio Supports 4:3, 16:9, 16:10
Pixel Arrangement Cross stripe
Color Brightness[2] Color Light Output: 13,000 lumens
White Brightness[2] White Light Output: 13,000 lumens
Contrast Ratio 2,500,000:1 (Dynamic Contrast: On)
Brightness Uniformity (Typical) 95%
Color Reproduction Up to 1.07 billion colors
Keystone Correction Vertical: ±45 degrees; horizontal: ±30 degrees
Illumination Technology Laser Diode

Projection Lens (Standard)

See website for information on optional lenses.
Standard Lens ELPLM15 (sold separately)
Type Powered shift/focus/zoom
F-Number 2.0 – 2.1
Focal Length 14.8 mm – 17.7 mm
Zoom Ratio Optical zoom: 1.0 – 1.6
Throw Ratio Range 1.57 – 2.56
Lens Shift Vertical: ±60%; horizontal: ±18%

Other Features

Operating Temperature 32 ° to 122 °F (0 ° to 50 °C)
Power Supply Voltage 100 – 120 V ± 10%, 50/60 Hz AC
Power Consumption
335 W (Normal / Custom)
646 W (Quiet / Extended)
2.0 W (Standby (Network Standby)
0.4 W (Standby (Energy Saving)
Fan Noise 28 dB (Normal Mode); 29 dB (ECO)
IP Rating IP54
Security Security cable hole, lens lock, Kensington® lock provision, wireless LAN unit lock

Video I/O

Input Signal Input Video Signal (HDMI® 2ch-D and HDBaseT™ ports): 480i/480p/576i/576p/720p/1080i/1080p/3840 x 2160/4096 x 2160

Interfaces

3G-SDI in/out
HDMI x 1 (HDCP 2.3)
HDBaseT x 1
DVI-D x 1
VGA x 1
Variable audio out: Mini Stereo x 1
USB Type B x 1
USB Type-A x 2 (5 V, 2.0 A)
USB Type-A for Wireless LAN (optional)
Serial: RS-232C x 1 (9-pin)
Remote Mini Stereo
Network: RJ-45

Dimensions / Weight

Including Feet (W x D x H) 23.1" x 19.4" x 8.6"
Weight 52.2 lb (23.7 kg)

Remote Control

Features Power; Source Search/ Selection; Lens Shift/Zoom/ Focus; Test Pattern Selection; A/V Mute; Freeze; User ID; Auto Aspect; Color Mode; Number; Page Up and Down; E-Zoom, Volume, Help, Menu, Enter, ESC and Pointer Functions
Operating Angle
Rear: Right/Left: 60 to +60; Upper/Lower: +30 to 30 degrees
Rear: Right/Left: 30 to +30; Upper/Lower: +40 to +10 degrees
Operating Distance 98 ft

Eco Features

RoHS compliant
Recyclable product[4]
Epson America, Inc. is a SmartWay® Transport Partner[5]

Support

Epson Connection™
Pro-sales support: U.S. and Canada: 800-463-7766
Internet website: www.epson.com
Service Programs
The projector has a limited warranty of 3 years

What's in the Box

EB-PU2213B projector, power cable, remote control with two batteries, cable cover, user guide and warranty sheet

Ordering Information

Epson EB-PU2213B	V11HA69320
Ultra Short-Throw Lens (ELPLM23)	V12H004M0B
Ultra Short-Throw Lens - White (ELPLM23WH)	V12H004F0B
Short-Throw #1 Zoom Lens (ELPLU03)	V12H004U63
Short-Throw #2 Zoom Lens (ELPLU04)	V12H004U64
Wide-Throw #2 Zoom Lens (ELPLM09)	V12H004W0B
Wide-Throw #3 Zoom Lens (ELPLM10)	V12H004W0C
Middle-Throw #2 Zoom Lens (ELPLM12)	V12H004M0F
Middle-Throw #3 Zoom Lens (ELPLM13)	V12H004M0A
Middle-Throw #4 Zoom Lens (ELPLM11)	V12H004M0B
Long-Throw Zoom Lens (ELPLL08)	V12H004L0B
Rigging Frame (ELPMB59)	V12H006A01
Wireless LAN Module (ELPAP11)	V12H005A02
Projector Ceiling Mount (ELPMB67)	V12H004S10
Suspension Adapter (ELPFP15)	V12H003S10
Pa/Sign Camera (ELPDC21)	V12H640S10

1 4K Enhancement Technology shifts each pixel to surpass Full HD resolution on screen. | 2 Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with ICMS 15.4; white light output measured in accordance with ISO 21118. | 3 No required maintenance for the light source for up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 – 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environment. Replacement of parts other than the light source may be required in a shorter period. | 4 HDR10 compatible. Dolby Vision® compatible. Requires Epson external camera or built-in camera for each projector and the Epson Projector Professional Tool app. | 5 Internet connection required for download. Data usage fee may apply. | 6 Requires Epson external camera or built-in camera for each projector and the Epson Projector Professional Tool app. | 7 Using separate camera for each projector. | 8 IP54-certified optical engine and laser light source module in accordance with IEC standard 60529. | 9 For convenient and reasonable recycling options, visit www.epson.com/recycle | 10 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

See the latest innovations from Epson Business Solutions at **www.epson.com/forbusiness**

Better Products for a Better Future®
ecs.epson.com

SmartWay Transport Partner

Contact:

Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

www.epson.com
www.epson.ca

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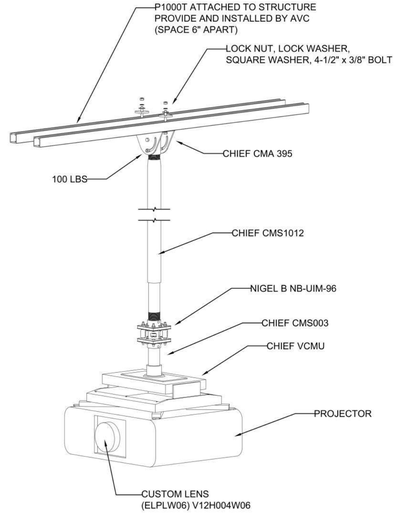
Specification Sheet | Page 2 of 2

www.epson.com/largevenue

2 VP1-x SPEC SHEET



3 VP2-x(EPSON)
1" = 1'-0"

EPSON
EXCEED YOUR VISION

EB-PU2213B 13,000-Lumen 3LCD
Laser Projector with 4K Enhancement

Projectors
Large Venue

Specifications

Projection System High-aperture Epson 3LCD, 3-chip technology
Projection Method Front/rear/ceiling mount
Driving Method Poly-silicon TFT Active Matrix
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Signal Input Maximum Display Resolution: 4096 x 2160 (resizing display); Display Resolution: 1920 x 1200 pixels
Resolution on Screen WUXGA with 4K Enhancement[1]
1920 x 1200 pixels
Resolution on Screen WUXGA with 4K Enhancement[1]
4.6 million pixels
Aspect Ratio Supports 4:3, 16:9, 16:10
Pixel Arrangement Cross stripe
Color Brightness[2] Color Light Output: 13,000 lumens
White Brightness[2] White Light Output: 13,000 lumens
Contrast Ratio 2,500,000:1 (Dynamic Contrast: On)
Brightness Uniformity (Typical) 95%
Color Reproduction Up to 1.07 billion colors
Keystone Correction Vertical: ±45 degrees; horizontal: ±30 degrees
Illumination Technology Laser Diode

Projection Lens (Standard)

See website for information on optional lenses.
Standard Lens ELPLM15 (sold separately)
Type Powered shift/focus/zoom
F-Number 2.0 – 2.1
Focal Length 14.8 mm – 17.7 mm
Zoom Ratio Optical zoom: 1.0 – 1.6
Throw Ratio Range 1.57 – 2.56
Lens Shift Vertical: ±60%; horizontal: ±18%

Other Features

Operating Temperature 32 ° to 122 °F (0 ° to 50 °C)
Power Supply Voltage 100 – 120 V ± 10%, 50/60 Hz AC
Power Consumption
335 W (Normal / Custom)
646 W (Quiet / Extended)
2.0 W (Standby (Network Standby)
0.4 W (Standby (Energy Saving)
Fan Noise 28 dB (Normal Mode); 29 dB (ECO)
IP Rating IP54
Security Security cable hole, lens lock, Kensington® lock provision, wireless LAN unit lock

Video I/O

Input Signal Input Video Signal (HDMI® 2ch-D and HDBaseT™ ports): 480i/480p/576i/576p/720p/1080i/1080p/3840 x 2160/4096 x 2160

Interfaces

3G-SDI in/out
HDMI x 1 (HDCP 2.3)
HDBaseT x 1
DVI-D x 1
VGA x 1
Variable audio out: Mini Stereo x 1
USB Type B x 1
USB Type-A x 2 (5 V, 2.0 A)
USB Type-A for Wireless LAN (optional)
Serial: RS-232C x 1 (9-pin)
Remote Mini Stereo
Network: RJ-45

Dimensions / Weight

Including Feet (W x D x H) 23.1" x 19.4" x 8.6"
Weight 52.2 lb (23.7 kg)

Remote Control

Features Power; Source Search/ Selection; Lens Shift/Zoom/ Focus; Test Pattern Selection; A/V Mute; Freeze; User ID; Auto Aspect; Color Mode; Number; Page Up and Down; E-Zoom, Volume, Help, Menu, Enter, ESC and Pointer Functions
Operating Angle
Rear: Right/Left: 60 to +60; Upper/Lower: +30 to 30 degrees
Rear: Right/Left: 30 to +30; Upper/Lower: +40 to +10 degrees
Operating Distance 98 ft

Eco Features

RoHS compliant
Recyclable product[4]
Epson America, Inc. is a SmartWay® Transport Partner[5]

Support

Epson Connection™
Pro-sales support: U.S. and Canada: 800-463-7766
Internet website: www.epson.com
Service Programs
The projector has a limited warranty of 3 years

What's in the Box

EB-PU2213B projector, power cable, remote control with two batteries, cable cover, user guide and warranty sheet

Ordering Information

Epson EB-PU2213B	V11HA69320
Ultra Short-Throw Lens (ELPLM23)	V12H004M0B
Ultra Short-Throw Lens - White (ELPLM23WH)	V12H004F0B
Short-Throw #1 Zoom Lens (ELPLU03)	V12H004U63
Short-Throw #2 Zoom Lens (ELPLU04)	V12H004U64
Wide-Throw #2 Zoom Lens (ELPLM09)	V12H004W0B
Wide-Throw #3 Zoom Lens (ELPLM10)	V12H004W0C
Middle-Throw #2 Zoom Lens (ELPLM12)	V12H004M0F
Middle-Throw #3 Zoom Lens (ELPLM13)	V12H004M0A
Middle-Throw #4 Zoom Lens (ELPLM11)	V12H004M0B
Long-Throw Zoom Lens (ELPLL08)	V12H004L0B
Rigging Frame (ELPMB59)	V12H006A01
Wireless LAN Module (ELPAP11)	V12H005A02
Projector Ceiling Mount (ELPMB67)	V12H004S10
Suspension Adapter (ELPFP15)	V12H003S10
Pa/Sign Camera (ELPDC21)	V12H640S10

1 4K Enhancement Technology shifts each pixel to surpass Full HD resolution on screen. | 2 Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with ICMS 15.4; white light output measured in accordance with ISO 21118. | 3 No required maintenance for the light source for up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 – 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environment. Replacement of parts other than the light source may be required in a shorter period. | 4 HDR10 compatible. Dolby Vision® compatible. Requires Epson external camera or built-in camera for each projector and the Epson Projector Professional Tool app. | 5 Internet connection required for download. Data usage fee may apply. | 6 Requires Epson external camera or built-in camera for each projector and the Epson Projector Professional Tool app. | 7 Using separate camera for each projector. | 8 IP54-certified optical engine and laser light source module in accordance with IEC standard 60529. | 9 For convenient and reasonable recycling options, visit www.epson.com/recycle | 10 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

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Better Products for a Better Future®
ecs.epson.com

SmartWay Transport Partner

Contact:

Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

www.epson.com
www.epson.ca

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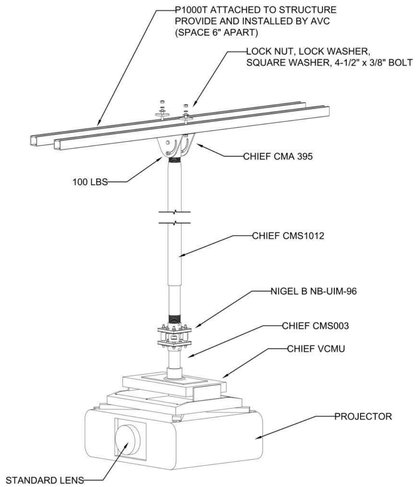
Specification Sheet | Page 2 of 2

www.epson.com/largevenue

4 VP2-x SPEC SHEET



5 VP3-1(EPSON)
1" = 1'-0"

EPSON
EXCEED YOUR VISION

PowerLite® L735U Full HD WUXGA Long Throw Laser Projector

Projectors
Business

Specifications

Projection System RGB liquid crystal shutter projection system
Projection Method Front/rear/ceiling mount
LCD Size 0.67" (22mm)
Driving Method Poly-Silicon TFT Active Matrix
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Native Resolution 1920 x 1200 (WUXGA)
Resize 640 x 480, 800 x 600, 1280 x 1024, 1400 x 1050
Aspect Ratio Supports 4:3, 16:10, 16:9*, 15:9*, 21:9*
* With vertical image shift control within letterbox area.
Pixel Arrangement Cross-stripe
Color Brightness[1] Color Light Output: 7,000 lumens
White Brightness[1] White Light Output: 7,000 lumens
Contrast Ratio Up to 2,500,000:1
Brightness Uniformity (Typical) 86%
Color Reproduction Up to 1.07 billion colors
Size (projected distance) 50" – 500"
Projected Distance 60" screen 2.33 – 3.78 m
Lens Shift Vertical: ±50%; horizontal: ±20%
Keystone Correction Vertical: ±30 degrees; horizontal: ±30 degrees
Illumination Technology Laser Diode
Laser Light Source Life[2] Normal: 20,000 hours; Quiet: 20,000 hours; Extended: 30,000 hours

Projection Lens

Type Optical Zoom (Manual)/Focus (Manual)
F-Number 1.49 – 2.39
Focal Length 29.0 mm – 51.6 mm
Zoom Ratio 1.00 – 1.6x (Optical)
Throw Ratio Range 1.35 – 2.20 (Optical)
Lens Cover Lens cap (without string)

Wireless Specifications

Frequency Type (model/area) 802.11b/g/n (2.4GHz)
Supported Modes WPA2-PSK Quick Mode (CBTS), WPA2-PSK; Supported Mode: WPA2-PSK, WPA2/WPA3-EAP

Other Features

Operating Temperature 32 ° to 113 °F (0 °C to 45 °C)
Power Supply Voltage 100V – 240 V ± 10%, 50/60 Hz AC
Auto Power On Signal Detection on HDMI®/Plug-in Detection
Auto Power Off 5 min (ECO)
Sleep Mode Yes (with timer)
HDMI CEC Control Yes
Power Consumption
358 W (Normal Mode)
307 W (Quiet and Extended)
2.0 W Standby (Communication on)
0.3 W Standby (Communication off)
Fan Noise 38 dB (Normal Mode); max. 27 dB (ECO Mode)
Security Security cable hole, lens lock, Kensington
lock provision
A/V Mute Yes
Speaker(s) 10 W (mono)
Screen Mirroring Yes
Split Screen[3] Yes

Interfaces

HDMI (HDCP 2.3) x 2
HDMI 3rd x 1
VGA x 2
Monitor Out: Mini D-Sub 15-pin x 1
HDBaseT™ x 1
Audio In: Mini Stereo x 2
Variable Audio Out: Mini Stereo x 1
USB Connector Type-A x 1
USB Connector Type-B x 1
Serial: RS-232C x 1
Wired LAN: RJ-45 x 1
Wireless LAN Built-in

Other Features (Continued)

Content Playback Yes
Quick Corner Yes
Arc Correction Yes
Edge Blending Yes
Screen Sharing Yes

Effective Scanning Frequency Range (Analog)

Pixel Clock 13.5 MHz – 192 MHz (up to UXGA 60 Hz)
Horizontal 15 kHz – 92 kHz
Vertical 50 Hz – 85 Hz

Effective Scanning Frequency Range (Digital)

Pixel Clock 13.5 MHz – 297 MHz
Horizontal 15 kHz – 133 kHz
Vertical 23.98/24/25/29.97/30/50/59.94/60 Hz

Dimensions (W x D x H)

Excluding Feet 17.32" x 11.97" x 4.85"
Including Feet 17.32" x 12.59" x 5.35"
Weight 15.5 lb

Remote Control

Features Power; source search selection, test pattern selection, A/V mute, freeze, user ID, auto, aspect, color mode, number, page up and down, E-Zoom, volume, help, menu, enter, esc and pointer functions
Operating Angle Rear Right/Left ±60 degrees; Upper/Lower: +30 to 30 degrees
Operating Angle Rear Right/Left ±30 degrees; Upper/Lower: +30 to +10 degrees
Operating Distance 26 ft

Eco Features

RoHS compliant
Recyclable product[4]
Epson America, Inc. is a SmartWay® Transport Partner[5]

Support

Epson Connection™
Pre-sales support: U.S. and Canada: 800-463-7766
Internet website: www.epson.com
Service Programs
The projector has a limited warranty of 3 years. Epson Road Service program with free Next-Business-Day replacement*, PrivateLine® dedicated toll-free support (U.S. and Canada only)

What's in the Box

PowerLite L735U projector, power cable, computer cable (HDMI), projector remote control with batteries, Quick Setup sheet, cable cover

Ordering Information

PowerLite L735U	V11HA25120
Replacement Air Filter (ELPAF56)	V13H134A56
Ceiling Mount (Universal) (ELPMBPJU)	V12H000001
Custom Micro-Adjustable Projector Mount (ELPMBPRH)	V12H000001
Wireless LAN Module (ELPAP11)	V12H005A02
External Speaker (ELPSP02)	V12H467020
Document Camera DC-11	V12H752020
Document Camera DC-13	V12H753020
Document Camera DC-21	V12H758020
1-Year Extended Service Plan	EPPEBPE1
2-Year Extended Service Plan	EPPEBPE2

1 Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with ICMS 15.4; white light output measured in accordance with ISO 21118. | 2 No required maintenance for the light source for up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 – 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environment. Replacement of parts other than the light source may be required in a shorter period. | 3 Split Screen feature requires remote control. Consult your user manual for input combinations. | 4 Internet connection required for download. Data usage fee may apply. | 5 For convenient and reasonable recycling options, visit www.epson.com/recycle | 6 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 7 Expedited shipping not available in all areas. Read Service orders must be placed and processed by 3 p.m. Eastern Time for Next-Business-Day delivery.

See the latest innovations from Epson Business Solutions at **www.epson.com/forbusiness**

Better Products for a Better Future®
ecs-epson.com

SmartWay Transport Partner

Contact:

Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

www.epson.com
www.epson.ca

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Specification Sheet | Page 2 of 2

www.epson.com/laserprojectors

6 VP3-1 SPEC SHEET

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
866.667.8066 | WWW.CSDSI.COM

AVL Consultant:
BRENT MULLETT
BRENT@CSDUS.COM
888-448-7890

SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE

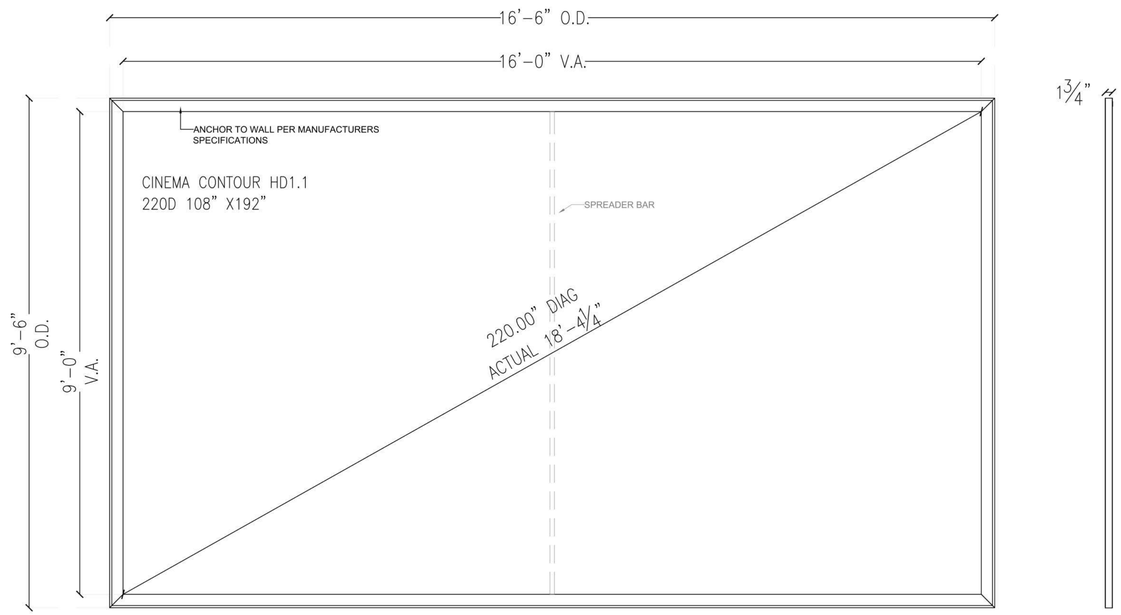
PROJECTOR DETAILS

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

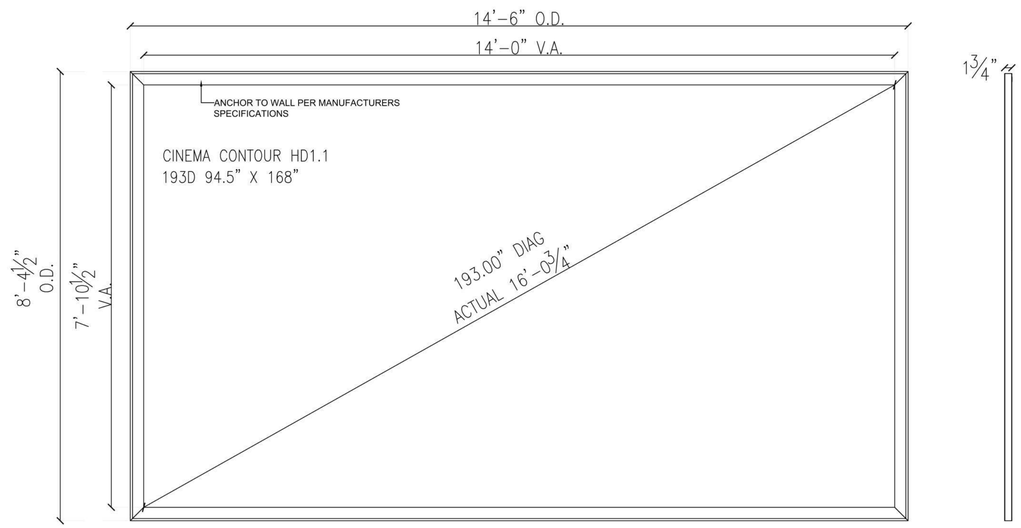
SHEET NUMBER

AV-5.2

NOT FOR CONSTRUCTION



1 VS1-x & VS2-x (DALITE CINEMA CONTOUR)
3/4" = 1'-0"



2 VS3-1 (DALITE CINEMA CONTOUR)
3/4" = 1'-0"

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
888-448-7890 • WWW.CSDUS.COM

AVL Consultant:
BRENT MULLETT
BRENT@CSDUS.COM
888-448-7890

SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE

PROJECTION SCREEN DETAILS

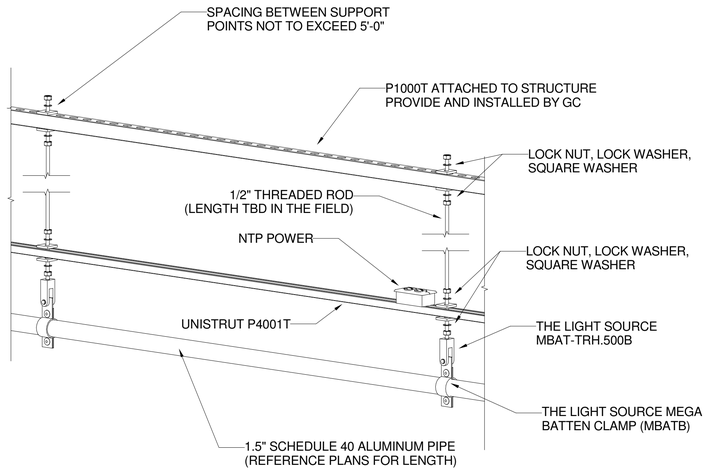
ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

SHEET NUMBER

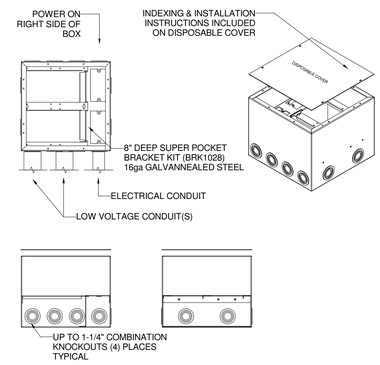
AV-5.3

1. 5:1 SAFETY FACTOR RATING SHALL BE USED ON ALL RIGGING COMPONENTS.
2. ALL SHACKLES, SHOULDER EYE-BOLTS, TURN BUCKLES, ETC. SHALL BE FORGED ALLOY-STEEL GRADE PRODUCTS.
3. ALL NUTS AND BOLTS USED SHALL BE SAE GRADE 8 RATED.
4. THREADED ROD USED SHALL BE HARDENED B7 RATED.
5. WIRE ROPE USED SHALL BE GALVANIZED IWRC 7 STRAND 19 WIRE (7x19) CLASS RATED.

RIGGING STANDARDS
-



1 LP-x (LIGHTING PIPE)
1 1/2" = 1'-0"



2 FB-x (ACE BACKSTAGE BRK1028BBXW)
1 1/2" = 1'-0"

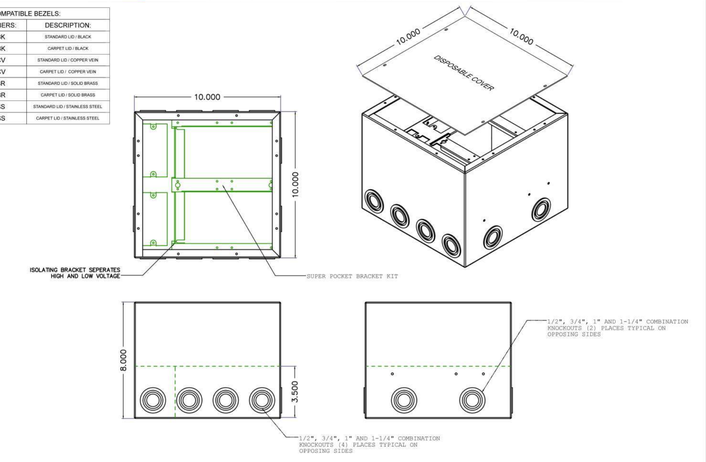
POLYURETHANE COATED
8" DEEP FULL BACK BOX

COMPATIBLE WITH HORIZONTAL POCKET
PROUDLY MADE IN THE U.S.A.

REVISIONS		
REV	DESCRIPTION	DATE

ACE BACKSTAGE CO., INC. - STAGE POCKET SYSTEMS
www.acebackstage.com

COMPATIBLE BEZELS:	
MODEL NUMBERS:	DESCRIPTION:
BZ132SLBK	STANDARD LID / BLACK
BZ132CLBK	CARPET LID / BLACK
BZ132SLCV	STANDARD LID / COPPER VEIN
BZ132CLCV	CARPET LID / COPPER VEIN
BZ232SLBR	STANDARD LID / SOLID BRASS
BZ232CLBR	CARPET LID / SOLID BRASS
BZ332SLSS	STANDARD LID / STAINLESS STEEL
BZ332CLSS	CARPET LID / STAINLESS STEEL



APPROVALS	DATE
DRAWN: JM	08/04/11
CUSTOMER APPROVAL	

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.

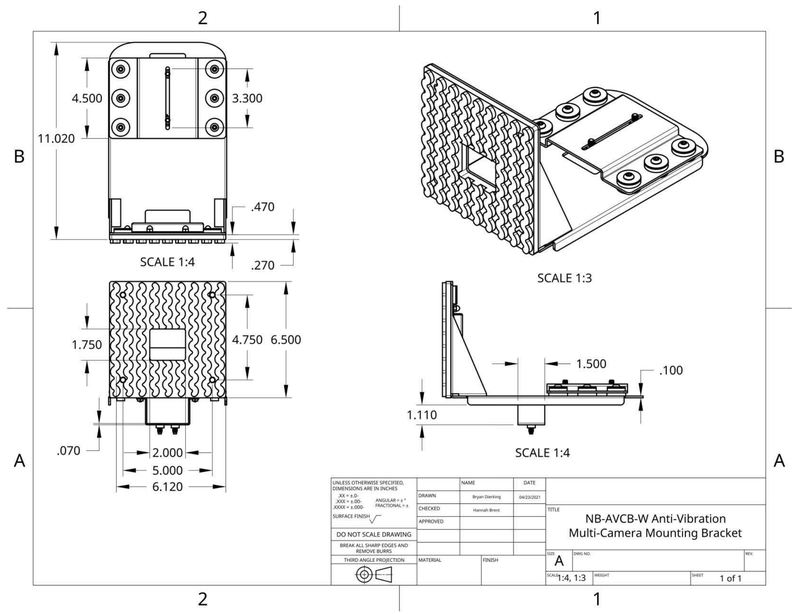
FINISH: BLACK POLYURETHANE OVER ELECTRO DEPOSITED CLEAR ZINC

MATERIAL: BACK BOX: 14 GAUGE CRS BRACKETS: 16 GAUGE GALVANEAL

ITEM: BRK1028BBXW

DESCRIPTION: 8" DEEP BACK BOX. INCLUDES SUPER POCKET PANEL BRACKETS. COMPATIBLE WITH FULL SIZE BEZEL. POLYURETHANE COATED FOR ADDED MOISTURE RESISTANCE.

REV 1
SHEET 1 OF 1

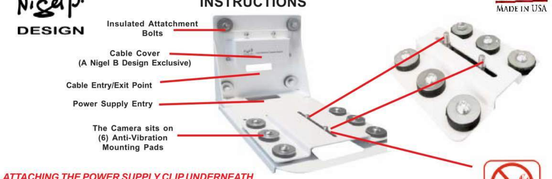


3 PTZ CAMERA MOUNT
1 1/2" = 1'-0"

Nigel B. DESIGN

ANTI-VIBRATION MULTI-CAMERA MOUNTING BRACKET
INSTRUCTIONS

MADE IN USA



ATTACHING THE POWER SUPPLY CLIP UNDERNEATH

The Power Supply Clip supplied is designed to hold most Power Supplies in position underneath the Mouting Bracket. Adjusting the "Gap Adjustment" Screws (supplied), allows the Power Supply to be held firmly in place.

The Anti-Vibration Gasket goes between the Mounting Bracket and Wall or when used with the Back Plate Option, the Gasket is sandwiched between the Camera Bracket and the Back Plate

The Power Supply when attached, forms an intregral part of the Mounting Bracket

NO TOOLS REQUIRED

(A Nigel B Design Exclusive)

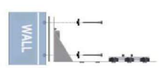
The user simply slides the Captive Tripod Screws along the 3" Slot, aligning them up with the Camera's Tripod Position(s)

ATTACHING THE MULTI-CAMERA MOUNTING BRACKET TO THE WALL

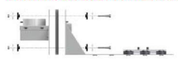
The preferred Method is to mount the Bracket as shown in the Diagrams to get the most benefit in eliminating any Vibration. If the User Inverts the Bracket the (6) Camera Plate Bolts should be cinched down to ensure the Anti-Vibration Pads are compesssed to ensure a tight fit when the weight of the Camera can often cause a slight gap between the Pads and the Camera Bracket

REVERSE MOUNTING THE BRACKET

The Screws holding the Camera Bracket are Factory set with the correct torque to obtain the maximum benefit of the Anti-Vibration Pads. It is recommended that they are tightened (usually no more than one full turn) when Inverting the Camera Bracket to ensure adequate contact is maintained when mounting the Bracket in the inverse position, as the weight of the camera may cause a slight reduction in the effectivenss of the Anti-Vibration properties of the Pads.



ATTACHING THE MULTI-CAMERA MOUNTING BRACKET TO THE BACK PLATE



Both can be reverse mounted allowing the entire Mounting Bracket and Camera to be inverted

PARTS LIST

(4) 2" Lag Bolts
(4) 1" dia Washers
(4) 1" dia. Isolation Pads
(1) 6.5"x 6.5" Isolation Gasket
(1) Camera Plate with fittings
(1) Power Supply Clip & Saddle Clamp
(2) 6.32 Nuts
(2) 1/4.20 x 1/2" Plastic Set Screws

ADDITIONAL PARTS REQUIRED WHEN USING THE BACK PLATE

(1) Back Plate Assembly
(4) 1/4.20 x 1 1/4 Hex Bolts
(4) 1" dia Washers
(4) 1" dia Isolation Pads
(1) Pole Mounting Adaptor (as ordered)
or
(1) Unistrut Monting Adaptor

Pole Mounting Adaptor attaches to the Back Plate

Adding the Back Plate Options allows the Camera to be placed anywhere in a room

Designed and Manufactured in the USA by

Nigel B Design, Inc. CA USA. Tel: (818) 487-9323 Fax: (818) 766-9805
Web Site: www.nigelbdesign.com E-Mail: sales@nigelbdesign.com

Using the Unistrut® Mounting Back Plate to attach the Camera Bracket to other Unistrut® fittings

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
888-448-7890 ● WWW.CSDUS.COM

AVL Consultant:
BRENT MULLETT
BRENT@CSDUS.COM
888-448-7890

SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL

INITIALS:

DATE

ARCHITECT

SHEET TITLE

THEATRICAL LIGHTING SUSPENSION & FLOOR BOX DETAILS

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

SHEET NUMBER
AV-5.4

- All receptacle and Switch heights to be confirmed by Electrical Engineer.
- Technical Power Panel to be served by a K13 Transformer. (Transformer to be sized by Electrical Engineer)
- Power Panel Brand and Model to be determined by Electrical Engineer.
- Electrical Contractor to Provide and Install Power Relay Panels. (Reference AV-6.3 for more information)
- BTU calculation taken from standard calcuation of 3.41/watt, and can normally be De-rated to 60% for typical use.

POWER NOTES
-

(TP) TECHNICAL POWER SCHEDULE

PANEL	CIRCUIT #	LOCATION	ELEVATION	MOUNTING	PROVIDED BY	INSTALLED BY	VOLTS	BREAKER	WATTS	RECPT TYPE	RELAY	PURPOSE (notes)	BTU CALC	BTU DERATED TO 60%
TP	TP1	PLATFORM	1' - 6"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP1	PLATFORM	1' - 6"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP1	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP1	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP2	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	YES	OFE BAND EQUIPMENT	1364	818
TP	TP2	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	YES	OFE BAND EQUIPMENT	1364	818
TP	TP2	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	YES	OFE BAND EQUIPMENT	1364	818
TP	TP3	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP3	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	400	NEMA 5-20R	NO	OFE BAND EQUIPMENT	1364	818
TP	TP4	AVL	1' - 6"	FLUSH	EC	EC	120	20A	200	NEMA 5-20R	YES	SOUND BOARD	682	409
TP	TP5	AVL	1' - 6"	FLUSH	EC	EC	120	20A	200	NEMA 5-20R	NO	CAMERA	682	409
TP	TP5	AVL	1' - 6"	FLUSH	EC	EC	120	20A	500	NEMA 5-20R	NO	COMPUTER	1705	1023
TP	TP6	AVL	5' - 7"	FLUSH	EC	EC	120	20A	450	NEMA 5-20R	NO	(2) 65" TVs	1535	921
TP	TP7	AVL	1' - 6"	FLUSH	EC	EC	120	20A	700	NEMA 5-20R	NO	VIDEO SWITCHER	2387	1432
TP	TP8	AVL	1' - 6"	FLUSH	EC	EC	120	20A	1000	NEMA 5-20R	NO	COMPUTER	3410	2046
TP	TP9	AVL	1' - 6"	FLUSH	EC	EC	120	20A	500	NEMA 5-20R	NO	COMPUTER/SOUND BOARD	1705	1023
TP	TP10	SIDE	6' - 0"	FLUSH	AVC	EC	120	20A	1000	NEMA 5-20R	NO	CONSTANT - NETWORK	3410	2046
TP	TP11	SIDE	5' - 0"	FLUSH	AVC	EC	120	20A	1000	NEMA 5-20R	YES	DIGITAL SNAKE/WIRELESS MICS	3410	2046
TP	TP12	SIDE	4' - 0"	FLUSH	AVC	EC	120	20A	1300	NEMA 5-20R	YES	AMP 1	4433	2660
TP	TP13	SIDE	3' - 0"	FLUSH	EC	EC	120	20A	500	NEMA 5-20R	NO	70v AMP	1705	1023
TP	TP14	SIDE	2' - 0"	FLUSH	EC	EC	120	20A	1000	NEMA 5-20R	NO	VIDEO SWITCHER	3410	2046
TP	TP15	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	YES	JBL ARRAY (6) BOXES	5456	3274
TP	TP16	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	YES	JBL ARRAY (6) BOXES	5456	3274
TP	TP17	SIDE	6' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	YES	SPARE	5456	3274
TP	TP18	PASTORS OFFICE	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP18	CLASS/CONFERENCE	6' - 4"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP18	OFFICE	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP18	PASTORS OFFICE	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP18	CORRIDOR	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP19	LOBBY	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP19	LOBBY	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP19	LOBBY	1' - 6"	FLUSH	EC	EC	120	20A	200	NEMA 5-20R	NO	LAPTOP COMPUTER	682	409
TP	TP19	LOBBY	1' - 6"	FLUSH	EC	EC	120	20A	200	NEMA 5-20R	NO	LAPTOP COMPUTER	682	409
TP	TP20	CAFE	7' - 6"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP20	CAFE	7' - 6"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP21	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP21	CORRIDOR	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP21	CORRIDOR	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP22	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	900	NEMA 5-20R	NO	PROJECTOR	3069	1841
TP	TP23	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	900	NEMA 5-20R	NO	PROJECTOR	3069	1841
TP	TP24	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	900	NEMA 5-20R	NO	PROJECTOR	3069	1841
TP	TP25	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	900	NEMA 5-20R	NO	PROJECTOR	3069	1841
TP	TP26	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	900	NEMA 5-20R	NO	PROJECTOR	3069	1841
TP	TP27	GREEN ROOM	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP28	RECEPTION	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP28	OFFICE	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP28	CORRIDOR	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP29	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP29	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	120	20A	225	NEMA 5-20R	NO	TV	767	460
TP	TP30	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	YES	JBL ARRAY (6) BOXES	5456	3274
TP	TP31	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	YES	JBL ARRAY (2) BOXES	5456	3274
TP	TP32	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1920	NEMA 5-20R	YES	JBL (2) SUBS	6547	3928
TP	TP33	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1920	NEMA 5-20R	YES	JBL (2) SUBS	6547	3928
TP	TP34	AUDITORIUM	29' - 0"	FLUSH	EC	EC	120	20A	1920	NEMA 5-20R	YES	JBL (2) SUBS	6547	3928

A

ADD CIRCUIT(S)
(1) FOR TVS
(5) FOR CHANGED AUDIO SYSTEM

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
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PROJECT/CLIENT
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Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
TP POWER SCHEDULE

ISSUE: 50% PROGRESS
PROJECT: AVL +A
PROJECT NUMBER: CSD-45841
DRAWING BY: JRB
CHECKED BY: BWC
PAPER SIZE: 36" X 24" : ARCH D
DATE ISSUE: 10/19/23

SHEET NUMBER
AV-6.1

- All receptacle and Switch heights to be confirmed by Electrical Engineer.
- Technical Power Panel to be served by a K13 Transformer. (Transformer to be sized by Electrical Engineer)
- Power Panel Brand and Model to be determined by Electrical Engineer.
- Electrical Contractor to Provide and Install Power Relay Panels. (Reference AV-6.3 for more information)
- BTU calculation taken from standard calcuation of 3.41/watt, and can normally be De-rated to 60% for typical use.

POWER NOTES

-

(NTP) NON-TECHNICAL POWER SCHEDULE														
PANEL	CIRCUIT #	LOCATION	ELEVATION	MOUNTING	PROVIDED BY	INSTALLED BY	VOLTS	BREAKER	WATTS	RECPT TYPE	RELAY	Notes	BTU CALC	BTU DERATED TO 60%
NTP	NTP1	AVL	1' - 6"	FLUSH	EC	EC	120	20A	350	NEMA 5-20R	NO	LIGHTING BOARD	1194	716
NTP	NTP2	SIDE	9' - 0"	FLUSH	EC	EC	120	20A	1600	NEMA 5-20R	NO	THEATRICAL LIGHTING	5456	3274
NTP	NTP3	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP3	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP3	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP4	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP4	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP5	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP5	PLATFORM	0' - 0"	FLUSH	EC	EC	120	20A	300	NEMA 5-20R	YES	THEATRICAL LIGHTING	1023	614
NTP	NTP6	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP7	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP8	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP9	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP10	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP11	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP12	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	1100	NEMA 5-20R	YES	THEATRICAL LIGHTING	3751	2251
NTP	NTP13	AUDITORIUM CEILING	28' - 10"	SURFACE	EC	EC	120	20A	900	NEMA 5-20R	YES	THEATRICAL LIGHTING	3069	1841
NTP	NTP14	AUDITORIUM CEILING	27' - 10"	SURFACE	EC	EC	120	20A	900	NEMA 5-20R	YES	THEATRICAL LIGHTING	3069	1841
NTP	NTP15	AUDITORIUM CEILING	27' - 10"	SURFACE	EC	EC	120	20A	900	NEMA 5-20R	YES	THEATRICAL LIGHTING	3069	1841
NTP	NTP16	AUDITORIUM CEILING	29' - 10"	SURFACE	EC	EC	120	20A	1200	NEMA 5-20R	YES	THEATRICAL LIGHTING	4092	2455
NTP	NTP17	AUDITORIUM CEILING	29' - 10"	SURFACE	EC	EC	120	20A	1200	NEMA 5-20R	YES	THEATRICAL LIGHTING	4092	2455
NTP	NTP18	AUDITORIUM CEILING	29' - 10"	FLUSH	EC	EC	120	20A	1200	NEMA 5-20R	YES	THEATRICAL LIGHTING	4092	2455
NTP	NTP21	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	810	NEMA 5-20R	NO	HOUSE LIGHT	2762	1657
NTP	NTP22	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	1080	NEMA 5-20R	NO	HOUSE LIGHT	3683	2210
NTP	NTP23	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	675	NEMA 5-20R	NO	HOUSE LIGHT	2302	1381
NTP	NTP24	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	1080	NEMA 5-20R	NO	HOUSE LIGHT	3683	2210
NTP	NTP25	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	945	NEMA 5-20R	NO	HOUSE LIGHT	3222	1933
NTP	NTP26	AUDITORIUM CEILING	28' - 0"	FLUSH	EC	EC	120	20A	1080	NEMA 5-20R	NO	HOUSE LIGHT	3683	2210

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SHEET TITLE

NTP POWER SCHEDULE

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PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
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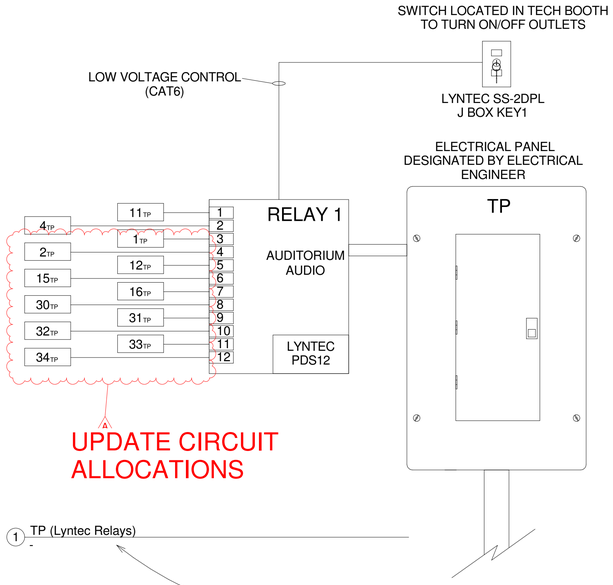
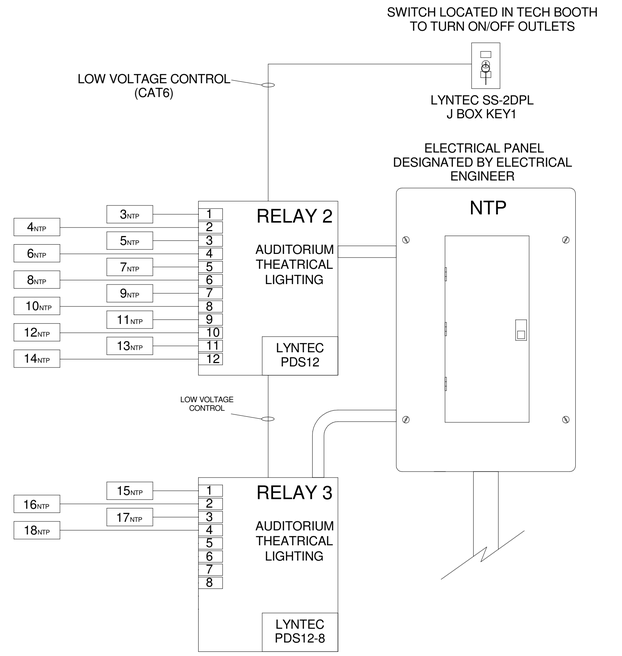
DATE ISSUE:	10/13/23

SHEET NUMBER

AV-6.2



ALL LYNTEC PANELS ARE PROVIDED AND INSTALLED BY EC, INCLUDING (2) KEY SWITCHES (LYNTEC SS-2DPL)
KEY SWITCHES AND LOW VOLTAGE CABLE INSTALLED BY AV CONTRACTOR

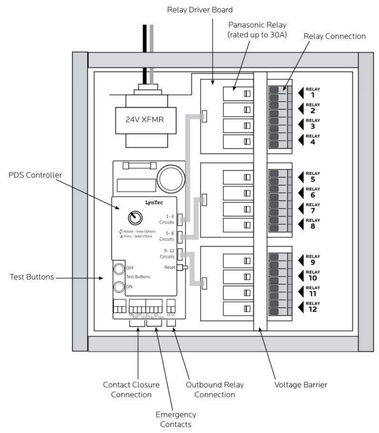


EMERGENCY SHUT DOWN
BY OTHERS (EC)

LYNTEC PD12

Chapter 4--Wiring

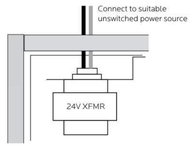
Figure 4-1: PDS-12



POWER WIRING

To initially wire the PDS connect the power breaker in your panel to the transformer in the PDS.

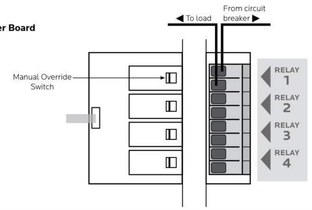
Figure 4-2: 24V Power Transformer



RELAY WIRING

To wire individual relays, bring the hot from the breaker to the first terminal for the desired relay. Then run another conductor from the second relay terminal to the load.

Figure 4-3: Relay Driver Board



LynTec SS-2 Switch Set

Using a standard LynTec SS-2 Switch Set with illuminated ON switch. See Figure 4-5

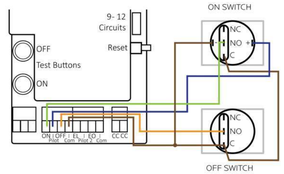
Wire the ON switch to PDS Controller board as follows:

1. Connect the "NO" pin on the ON switch to the "ON" terminal on the PDS Controller.
2. Connect the "+" pin on the ON switch to the "Pilot" terminal on the PDS Controller.
3. Connect the "-" pin on the ON switch to the "Com" terminal on the PDS Controller.

Wire the OFF switch to PDS Controller board as follows:

4. Connect the "NO" pin on the OFF switch to the "OFF" terminal on the PDS Controller.
5. Connect the "C" pin on the OFF switch to the "Com" terminal on the PDS Controller.
6. Jumper the "C" pin on the OFF switch to the "C" pin on the ON switch.

Figure 4-5: Switch Wiring for SS-2



Emergency Override Wiring

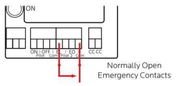
From the fire alarm unit or latching Emergency Shutoff switch, wire the Normally Open (NO) contacts to the "EO" and "Com" positions on the PDS Controller.

Figure 4-7: Wiring for Emergency Override

Emergency Lighting Wiring

From the fire alarm unit or latching Emergency Lighting switch, wire the Normally Open (NO) contacts to the "EL" and "Com" positions on the PDS Controller.

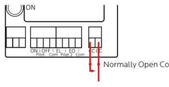
Figure 4-8: Wiring for Emergency Lighting



Completion Contact Wiring

From the desired unit, wire the Normally Open (NO) contacts to the "CC" and "CC" positions on the PDS Controller.

Figure 4-9: Wiring for Completion Contacts



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PROJECT/CLIENT
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Suitland, MD 20746

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SHEET TITLE
POWER RELAYS

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
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AV-6.3

EC to provide blank covers for each back box.
EC to provide (3) 2" chase nipples out of JB-1, JB-2 & JV-1
EC to provide (1) 2" chase nipples out of JA-1, JV-2, D-JB1 & D-JB-2

BACK BOX SCHEDULE NOTES
-

LOW VOLTAGE BACK BOX SCHEDULE (Elevation taken from center of box unless otherwise noted)

LABEL	SIZE: W" x H" x D"	LOCATION	ELEVATION	MOUNTING	PROVIDED BY	INSTALLED BY	SHEET REF.	NOTES
D-JB-1	6 X 6 X 4	CORRIDOR	12' - 0"	SURFACE	EC	EC	AV-1.1	CONDUIT TERMINATION POINT
D-JB-2	6 X 6 X 4	CORRIDOR	12' - 0"	SURFACE	EC	EC	AV-1.1	CONDUIT TERMINATION POINT
FB-1	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-x.x	FLOOR BOX AV i/O CONNECTIONS
FB-2	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-1.1	FLOOR BOX AV i/O CONNECTIONS
FB-3	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-1.1	FLOOR BOX AV i/O CONNECTIONS
FB-4	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-1.1	FLOOR BOX AV i/O CONNECTIONS
FB-5	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-x.x	FLOOR BOX AV i/O CONNECTIONS
FB-6	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-x.x	FLOOR BOX AV i/O CONNECTIONS
FB-7	10 X 10 X 8	PLATFORM	0' - 0"	FLUSH	AV	EC	AV-x.x	FLOOR BOX AV i/O CONNECTIONS
I/O-1	6 X 6 X 4	PLATFORM	1' - 6"	FLUSH	EC	EC	AV-1.1	WALL PLATE AV i/O CONNECTIONS
I/O-2	6 X 6 X 4	PLATFORM	1' - 6"	FLUSH	EC	EC	AV-1.1	WALL PLATE AV i/O CONNECTIONS
JA-1	24 X 4 X 4	AVL	1' - 6"	SURFACE	EC	EC	AV-1.1	VIDEO AND LIGHTING JUNCTION BOX
JB-1	60 X 4 X 4	AVL	1' - 6"	FLUSH	EC	EC	AV-1.1	CONDUIT TERMINATION POINT
JB-2	72 X 4 X 4	SIDE	9' - 0"	SURFACE	EC	EC	AV-1.1	CONDUIT TERMINATION POINT
JB-MTV1	1 GANG	AVL	5' - 7"	FLUSH	EC	EC	AV-1.1	MULTIVIEW TV SIGNAL
JB-TV1	1 GANG	WELCOME CENTER	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV2	1 GANG	WELCOME CENTER	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV3	1 GANG	CAFE	7' - 6"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV4	1 GANG	CAFE	7' - 6"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV5	1 GANG	GREEN ROOM	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV6	1 GANG	CLASS/CONFERENCE	6' - 4"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV7	1 GANG	PASTORS OFFICE	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV8	1 GANG	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV9	1 GANG	OFFICE	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV10	1 GANG	FIN. OFFICE	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV11	1 GANG	OFFICE	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV12	1 GANG	RECEPTION	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV13	1 GANG	CORRIDOR	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV14	1 GANG	CORRIDOR	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV15	1 GANG	CORRIDOR	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV16	1 GANG	CORRIDOR	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV17	1 GANG	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JB-TV18	1 GANG	CHECK-IN AREA	8' - 0"	FLUSH	EC	EC	AV-1.1	TV SIGNAL
JV-1	24 X 4 X 4	AVL	1' - 6"	SURFACE	EC	EC	AV-1.1	VIDEO JUNCTION BOX
JV-2	8 X 8 X 4	AVL	1' - 6"	SURFACE	EC	EC	AV-1.1	VIDEO JUNCTION BOX
L-1	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-2	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-3	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-4	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-5	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-6	1 GANG	AUDITORIUM	4' - 0"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-7	1 GANG	AVL	3' - 6"	FLUSH	EC	EC	AV-1.1	HOUSE LIGHTING PRESET PANEL
L-I/O-1	1 GANG	WELCOME CENTER	1' - 5 3/4"	FLUSH	EC	EC	AV-1.1	(2) MIC INPUTS
PTZ-1	2 GANG	AUDITORIUM	9' - 0"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
PTZ-2	2 GANG	AUDITORIUM	9' - 0"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
PTZ-3	2 GANG	AUDITORIUM	9' - 0"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
PTZ-4	2 GANG	AVL	9' - 0"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
PTZ-5	2 GANG	AVL	9' - 0"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
PTZ-6	2 GANG	AUDITORIUM	1' - 6"	FLUSH	EC	EC	AV-1.1	PTZ CAMERA LOCATION
SY-1	1 GANG	WELCOME CENTER	4' - 6"	FLUSH	EC	EC	AV-1.1	AUDIO SELECTOR (SYMETRIX)
TV-IN-1	1 GANG	WELCOME CENTER	1' - 6"	FLUSH	EC	EC	AV-1.1	HDMI INPUT
TV-IN-2	1 GANG	WELCOME CENTER	1' - 6"	FLUSH	EC	EC	AV-1.1	HDMI INPUT
VC-1	1 GANG	WOMEN	4' - 6"	FLUSH	EC	EC	AV-1.1	VOLUME CONTROL
VC-2	1 GANG	MEN	4' - 6"	FLUSH	EC	EC	AV-1.1	VOLUME CONTROL
VC-3	1 GANG	WOMEN	4' - 6"	FLUSH	EC	EC	AV-1.1	VOLUME CONTROL
VC-4	1 GANG	MEN	4' - 6"	FLUSH	EC	EC	AV-1.1	VOLUME CONTROL

A
ADD
(2) TVS

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BACK BOX SCHEDULE

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CHECKED BY: BWC
PAPER SIZE: 36" X 24" : ARCH D
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SHEET NUMBER
AV-6.4

CONDUIT COORDINATION LEGEND

NOTE	CONDUIT SIZE
3/4"	3/4"
1"	1"
1-1/4"	1-1/4"
1-1/2"	1-1/2"
2"	2"
3"	3"
4"	4"
6"	6"
8"	8"
12"	12"
CT1	6" WIRE TROUGH IN STAGE
CT2	24" CABLE TRAY

STUB OUT/UP INTO ACCESSIBLE CEILING

90° CORNERS REQUIRE A BACK BOX FOR CONDUIT

ROUNDED CORNER DO NOT REQUIRE BACK BOX FOR CONDUIT

90° REPRESENTS ONE CONDUIT

ROUNDED CORNER REPRESENTS MULTIPLE CONDUITS [Example - (2) 1"]

OVERHEAD

UNDER PLATFORM

UNDER GROUND

FREE- WIRE

GENERAL NOTES:

-EC TO PROVIDE AND INSTALL ALL CONDUIT, BACK BOXES, GUTTER BOXES, TERMINAL CANS, RACEWAYS, CABLE TRAYS AND ACCESS PANELS UNLESS OTHERWISE NOTED.

-CONDUIT RUNS ARE DRAWN FOR ILLUSTRATION ONLY. ACTUAL CONDUIT PATHS & INTERIM BOXES TO BE DETERMINED BY THE EC.

-EC MAY INCREASE THE SIZE OF JUNCTION BOXES, GUTTERS & CONDUIT AS NEEDED IN THE EVENT THAT A CONFLICT EXISTS.

-EC TO PROVIDE AND INSTALL ALL HIGH VOLTAGE (120V-240V) CABLE AND FIXTURES UNLESS OTHERWISE NOTED.

-INSTALL APPLICABLE SIZE PULL BOXES AFTER 270º OF BEND OR IF CONDUIT RUN IS MORE THAN 100'.

-LABEL ALL CONDUIT FOR DESTINATIONS SUCH AS BOX NUMBERS AND/OR ROOM LOCATIONS.

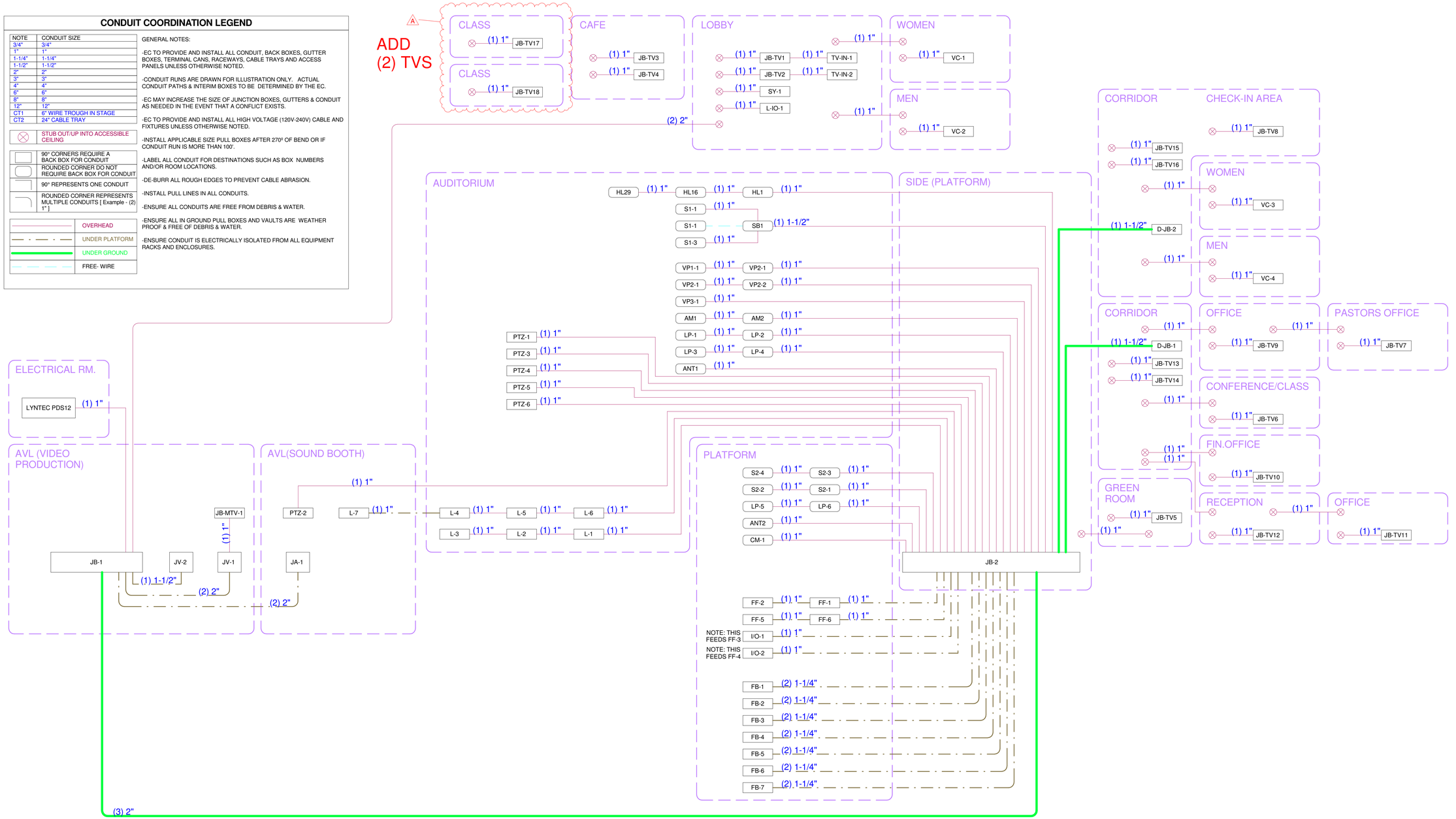
-DE-BURR ALL ROUGH EDGES TO PREVENT CABLE ABRASION.

-INSTALL PULL LINES IN ALL CONDUITS.

-ENSURE ALL CONDUITS ARE FREE FROM DEBRIS & WATER.

-ENSURE ALL IN GROUND PULL BOXES AND VAULTS ARE WEATHER PROOF & FREE OF DEBRIS & WATER.

-ENSURE CONDUIT IS ELECTRICALLY ISOLATED FROM ALL EQUIPMENT RACKS AND ENCLOSURES.



1 CONDUIT FLOWCHART

NOT FOR CONSTRUCTION

CUSTOM SOUND DESIGNS
TEAMWORK EXCELLENCE CREATIVITY HONOR
3003 RYAN ROAD NEW HAVEN IN 46774
888-448-7890 ● WWW.CSDUS.COM

AVL Consultant:
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BRENT@CSDUS.COM
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SUBMITTALS/REVISIONS

No	DATE	DESCRIPTION
A	01/23/24	Revision A

PROJECT/CLIENT
GALILEE BAPTIST CHURCH
2101 Shadyside Ave
Suitland, MD 20746

CLIENT SIGN-OFF APPROVAL
INITIALS:
DATE

ARCHITECT

SHEET TITLE
WORSHIP CONDUIT FLOWCHART

ISSUE:	50% PROGRESS
PROJECT:	AVL +A
PROJECT NUMBER:	CSD-45841
DRAWING BY:	JRB
CHECKED BY:	BWC
PAPER SIZE:	36" X 24" : ARCH D
DATE ISSUE:	10/19/23

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AV-6.5