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

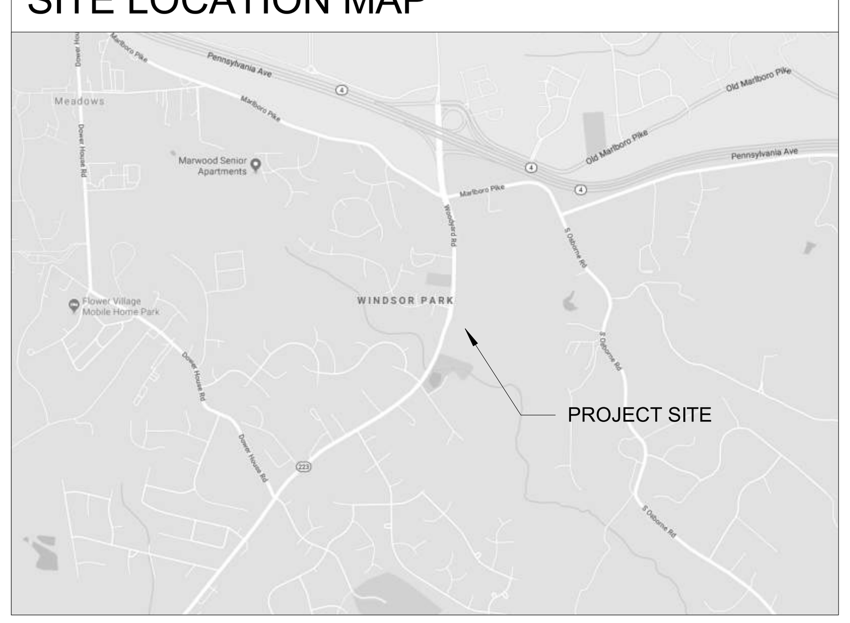
SPRINKLER REQUIREMENTS
A NEW FIRE SUPPRESSION SYSTEM WILL BE INSTALLED TO PROVIDE CODE COMPLIANT COVERAGE.

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



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.

SITE IMPROVEMENT DRAWINGS

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C-1 COVER SHEET
C-2 PLAN VIEW
C-3 PLAN VIEW

PRELIMINARY PLAN OF SUBDIVISION
C-4 COVER SHEET
C-5 PLAN VIEW
C-6 PLAN VIEW

TREE CONSERVATION PLAN TYPE 1
C-7 COVER SHEET
C-8 PLAN VIEW
C-9 PLAN VIEW

TREE CONSERVATION PLAN TUPE 2
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C-11 PLAN VIEW
C-12 PLAN VIEW

WETLAND DELINEATION
C-13 COVER SHEET
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C-15 PLAN VIEW

FINAL GRADING, EROSION, AND SEDIMENT CONTROL PLAN FOR FINE GRADING
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C-17 COMPOSITE, OVERLAY PLAN, GENERAL NOTES AND LEGEND
C-18 DRAINAGE AREA & SOILS MAP – ROUGH GRADING
C-19 PLAN VIEW/ROUGH GRADING
C-20 PLAN VIEW/ROUGH GRADING
C-21 PLAN VIEW/ROUGH GRADING
C-22 PLAN VIEW/ROUGH GRADING
C-23 PLAN VIEW/ROUGH GRADING
C-24 DRAINAGE AREA & SOILS MAP – FINE GRADING
C-25 PLAN VIEW/FINE GRADING
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C-31 DETAILS
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SITE PLAN
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C-60 STORM DRAIN STRUCTURE AND PIPE SCHEDULES
C-61 ESD DETAILS
C-62 ESD DETAILS
C-63 ESD DETAILS
C-64 ESD NOTES AND SPECIFICATIONS
C-65 SITE DETAILS
C-66 ESD LANDSCAPE DETAILS

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C-68 PLAN VIEW
C-69 PLAN VIEW
C-70 SEWER PROFILES
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AV-0.0 PROJECT TITLE AND SHEET INDEX
AV-0.1 DIVISION OF LABOR
AV-0.2 ELECTRICAL COODINATION & SYMBOLS
AV-0.3 ELECTRICAL & GROUNDING COORDINATION
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AV-1.2 CEILING PLAN
AV-1.3 AUDITORIUM RCP (WEIGHTS & DIMENSIONS)
AV-1.4 AUDITORIIUM CEILING PLAN UNISTRUT LOCATIONS
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)
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AV-5.4 THEATRICAL LIGHTING SUSPENSION & FLOOR BOX DETAILS
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TO BE RELEASED AT A LATER DATE
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COVER

BC-1 BUILDING CODE PLAN

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S102A ROOF FRAMING PLAN - A
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S102 FOYER FRAMING PLAN
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S402 FRAMING DETAILS
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A310 WALL SECTIONS
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PEMB2 PEMB PLAN
PEMB3 PEMB ELEVATIONS
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P101 AREA B FLOOR PLAN
P102 AREA C FLOOR PLAN
P103 AREA D FLOOR PLAN
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M002 MECHANICAL SPECIFICATIONS
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M102 FIRST FLOOR PLAN SECTION 'B' MECHANICAL
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M105 ROOF MECHANICAL PLAN
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The McKnight Group

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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.

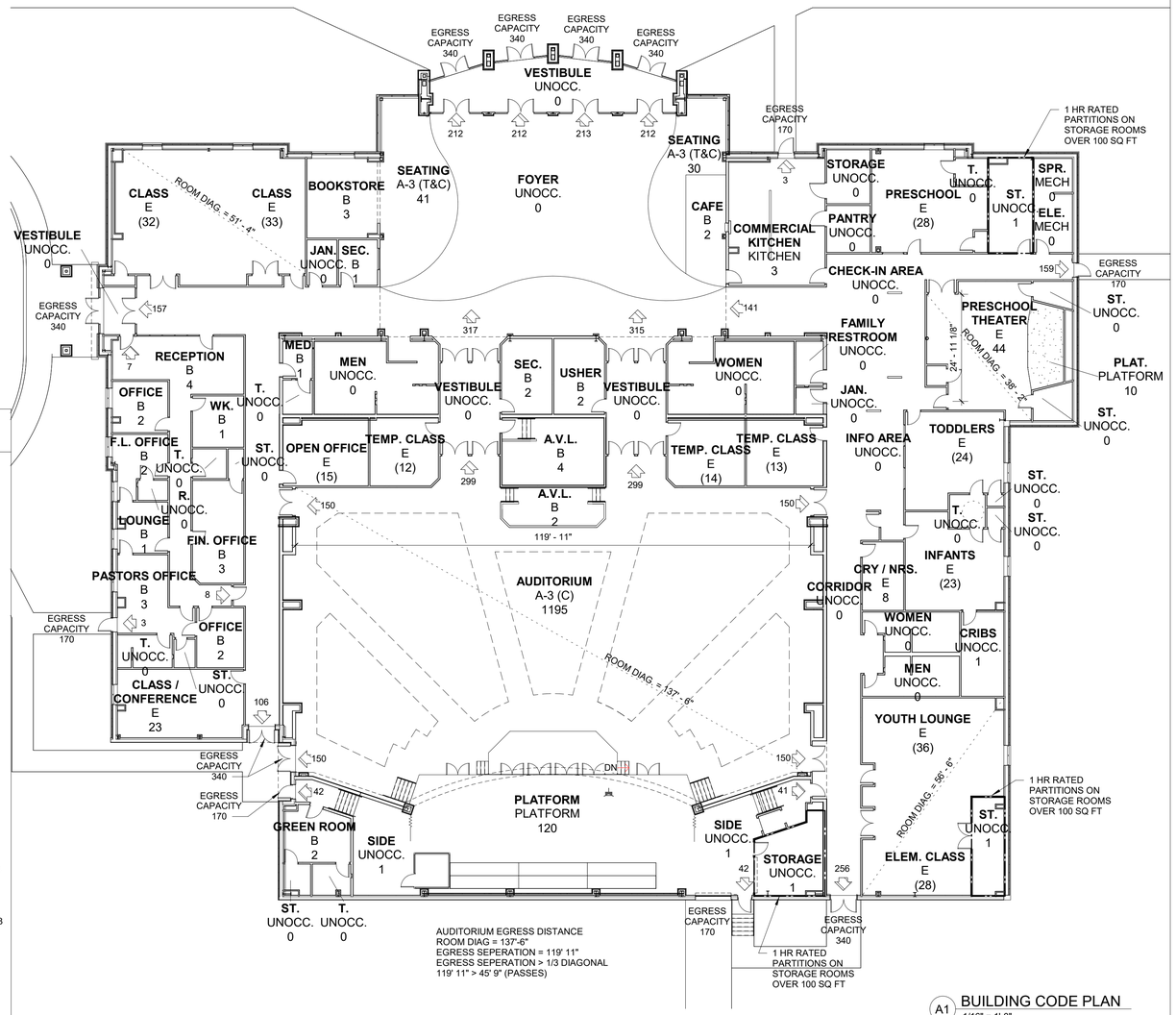
ACTUAL BUILDING	37,953 SQ. FT.
ACTUAL CANOPY-BASE BID	200 SQ. FT.
ACTUAL CANOPY-ALTERNATE	800 SQ. FT.
TOTAL ACTUAL	38,953 SQ. FT.

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

REFERENCE GRID

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

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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.

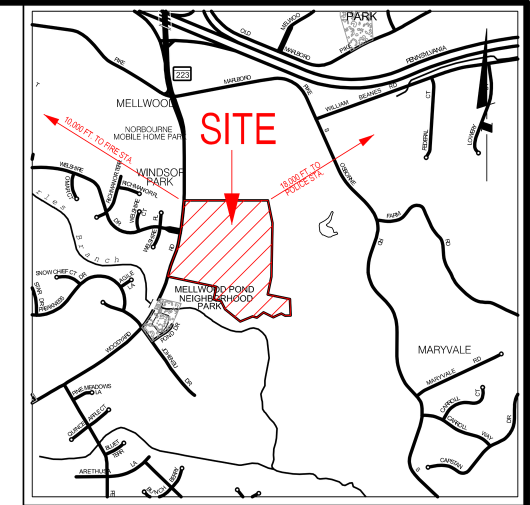
Web Soils Survey Soils Table

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.

			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	108	115	45	20	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%	35%	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%	40%	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	0% None
		Understory	23% Bradford Pear	0% None	0% None	0% None	13% Bradford Pear	0% None
		Herbaceous	5% Japanese Honeysuckle	40% Japanese Honeysuckle, Japanese Barberry	18% Japanese Honeysuckle, Japanese Barberry, Japanese Stilt Grass	5% Japanese Honeysuckle	5% Bradford Pear	40% Japanese Honeysuckle, Multiflora Rose
14	Number of standing dead trees 6" dbh or greater		0	0	2	0	0	0
15	Comments		Old field natural regeneration - mostly invasive species	Some scattered areas with heavy Grape vine	0	Some Beaver damage to scattered trees	Natural Regeneration - just meets definition of woodland some scattered invasive species	Disturbed area, many trees down or tops broken by grape vines
	Number of trees per acre		570	263	205	550	350	240
	Average Diameter at Breast Height (DBH)		2.7 "	12.0 "	16.5 "	2.0 "	3.0 "	11.1 "



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

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			

QUALIFIED PROFESSIONAL CERTIFICATION

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

SIGNED: [signature] DATE: 2/2/2024

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 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:

STATE OF MARYLAND — DAVID JOHN BICKEL — NO. 3210 — LANDSCAPE ARCHITECT
2/2/2024

NATURAL RESOURCE INVENTORY

GALILEE BAPTIST CHURCH
WOODYARD ROAD

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

ONE INCH — 1" = 100'
C-1
SHEET 1 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

SCALE: 1" = 50'

Antioch Baptist Church
of Upper Marlboro, Maryland
L. 21377 f. 394

N 89°40'48" E 1035.58'

WOODYARD RD (MD 223)

N 6°15'58" E 472.89'

WELSHIRE DRIVE

WOODLAND PRESERVATION EASEMENT

FOREST STAND A
0.89 ACRES

COLLAPSED METAL ROOF STRUCTURE

EXISTING EPHEMERAL CHANNEL

DEBRIS/TRASH

ST-1

ST-2

WOODLAND PRESERVATION EASEMENT

INTERIOR DRIVE/PATH

GRASS/MEADOW

AGRICULTURAL FIELD

TREED AREA NOT WOODLAND

DENSE TREES

1

2

3

CHARLES BRANCH TRIBUTAYRY

P. 78
Galilee Baptist Church
Liber 30474 f. 41
49.9703 Acres

FOREST STAND B
0.63 ACRES

PART OF
FOREST STAND B
10.20 ACRES

PART OF
FOREST STAND B
5.29 ACRES

PART OF
FOREST STAND F
8.95 ACRES

PART OF
FOREST STAND C
0.64 ACRES

PART OF
FOREST STAND C
1.04 ACRES

EXISTING STRUCTURE

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

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

S 44°22'22" E 1152.60'

S 44°22'22" E 1150.93'

S 44°22'22" E 1148.67'

90
157.01

60
152.

40
150.93

30
148.67

10" P.U.E.

10' P.U.E.

ROYAL LOAD OF
1.63 AC. (±) PART OF
"THE PARCEL"
LIBER 13757 FOLIO 719

PART OF
"THE PARCEL"
LIBER 13757 FOLIO 719
0.18 AC. (±)

MATCHLINE SEE SHEET 3 OF 3

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
- FOREST STAND BOUNDARY
- SOIL — SOILS BOUNDARY
- STEEP SLOPES
- P1 — FSD DATA SAMPLE POINT
- WETLAND DATA SAMPLE POINT
- ST-1 — SPECIMEN TREE WITH ROOTZONE

50 25 0 50 100

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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NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 | CAD STANDARDS VERSION: V8 - 2000
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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:

STATE OF MARYLAND · JOHN JOSEPH · MD. 3510 · LANDSCAPE ARCHITECT

NATURAL RESOURCE INVENTORY

GALILEE BAPTIST CHURCH
WOODYARD ROAD

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

1" = 50'

SHEET 2 OF 3

C-2

PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\ENV\NRI_FSD_02.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg PenTbl= TEXT_SUB.tbl 2/2/2024 4:50:40 PM

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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)
Radius = 1,473.00'
Length = 58.92' (Rel. to Arc)
Delta = 2°17'26" (Rel. to Arc)
Tangent = 29.46'
Chord = N 88°27'41" W 58.91'

N 89°27'41" W 58.18'

10' P.U.E.

WOODLAND PRESERVATION EASEMENT

PART OF FOREST STAND B 5.29 ACRES

PART OF FOREST STAND B 10.20 ACRES

WOODLAND PRESERVATION EASEMENT

PART OF FOREST STAND B 1.04 ACRES

WOODLAND PRESERVATION EASEMENT

EXISTING STRUCTURE

GRASS/MEADOW

FOREST STAND F 1.26 ACRES

EXISTING STRUCTURE

AGRICULTURAL FIELD

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

PART OF FOREST STAND C 6.64 ACRES

PART OF FOREST STAND F 1.95 ACRES

WOODLAND PRESERVATION EASEMENT

10' P.U.E.

FOREST STAND C 7.84 ACRES

FOREST STAND E 2 ACRES

WOODLAND PRESERVATION EASEMENT

FLOOD PLAIN EASEMENT

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

P. 76
Galilee Baptist Church
Liber 30474 f. 41

FOREST STAND D 2.76 ACRES

WOODLAND PRESERVATION EASEMENT

FLOOD PLAIN EASEMENT

WOODLAND PRESERVATION EASEMENT

ST-13 ST-14 ST-15 ST-16 ST-17

P1 P2 P3 P4 P5 P6 P7 P10 P11 P12 P13 P14 P17 P18

SCALE: 1" = 50'

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

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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NO.	REVISIONS	BY	DATE

DATE: MARCH 2016 | CAD STANDARDS VERSION: V8 - 2000
DESIGNED: BCG | TECHNICIAN: BCG | 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 208SE09	XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88	XXXX:

STATE OF MARYLAND · DONALD JOHN GRIMM · No. 21210 · 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

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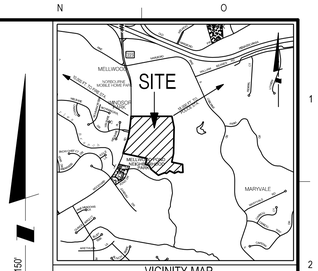
GALILEE BAPTIST CHURCH

PRELIMINARY PLAN OF SUBDIVISION PPS-4-23023

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



VICINITY MAP
SCALE: 1"=2000'

SCALE: 1" = 150'

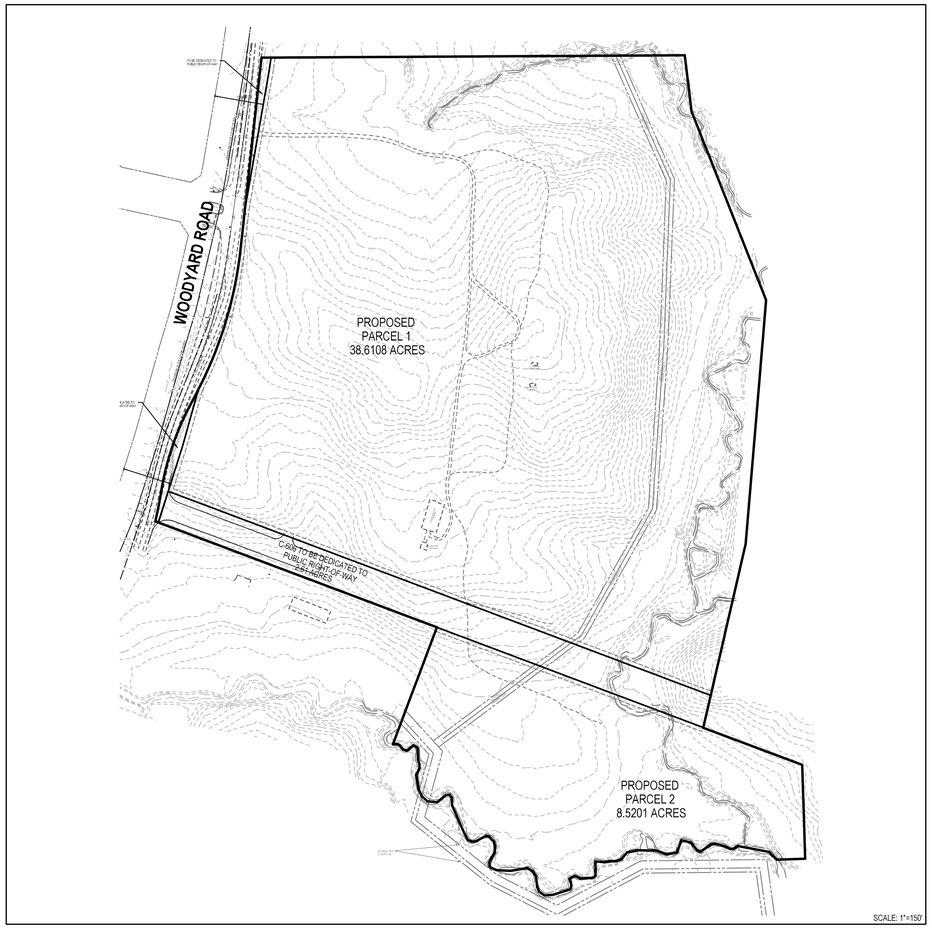
LEGEND

- 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.)



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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: O-S-C-TRIME-4S
USE: AGRICULTURAL

D 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'

N 6°45'48" E 470.86'

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. 2577 F. 157

S 47°54' W 583.58'

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

S 47°54' W 588.64'

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

CENTERLINE OF THE FUTURE 120' ROW

R=978.64' L=238.16'
T=119.65' D=13°56'39"
CHORD BEARING S 2°43'00" E
CHORD DISTANCE 237.57'

EX. CENTERLINE

R=1,078.64' L=261.16'
T=131.25' D=13°51'54"
CHORD BEARING S 2°45'12" E
CHORD DISTANCE 260.52'

O.P.I.E.

D BE DEDICATED TO
UBLIC RIGHT-OF-WAY
0.1252 ACRES

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 81°53'57" 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.6956/309
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°22'13.76" 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

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

CHARLES BRANCH

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

S 2°46'06" W 497.45'

S 86°30'02" E 258.49'

S 87°58'51" W 70.00'

POTOMA
USE: TRA

S 1°46'22" E 2,578.81'

EX. SEWER TO REMAIN

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

SCALE: 1" =50'

50 25 0 50 100

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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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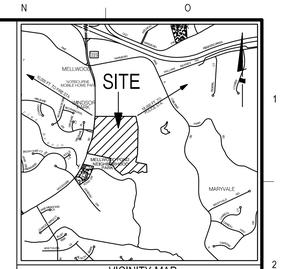
GALILEE BAPTIST CHURCH

TREE CONSERVATION PLAN -TYPE I

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

SCALE: 1"=150'



VICINITY MAP
SCALE: 1"=2000'

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR (146)
- PROPOSED CONTOUR (146)
- 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.

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.

10/23/2018

Owner or Owners Representative Date

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 WC 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 corresponging 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			

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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 VERTICAL: NAVD 88 XXXX:

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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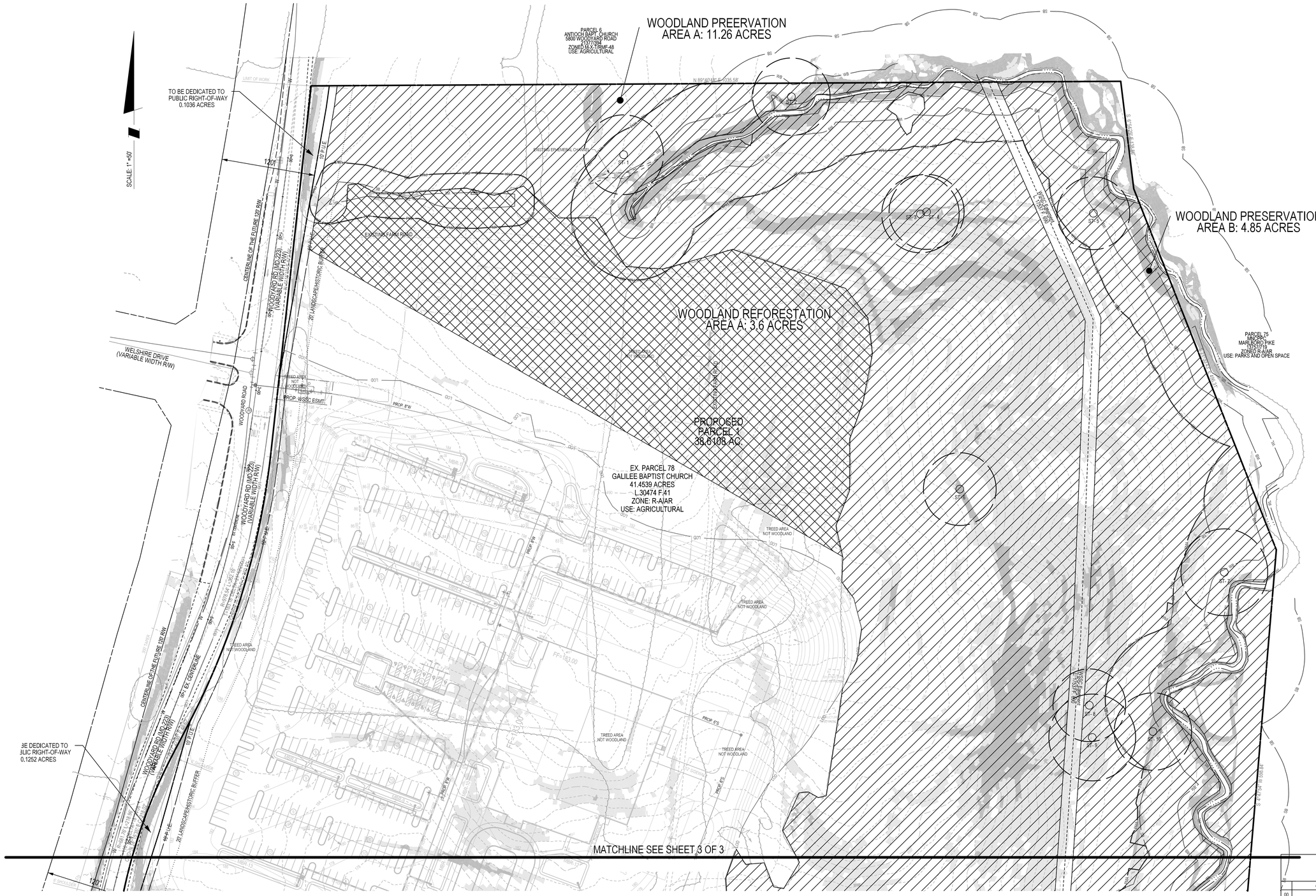

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN TYPE 1 APPROVAL
TCP1-

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WSSC 200' SHEET 208SE09 209SE09 | XXXX:
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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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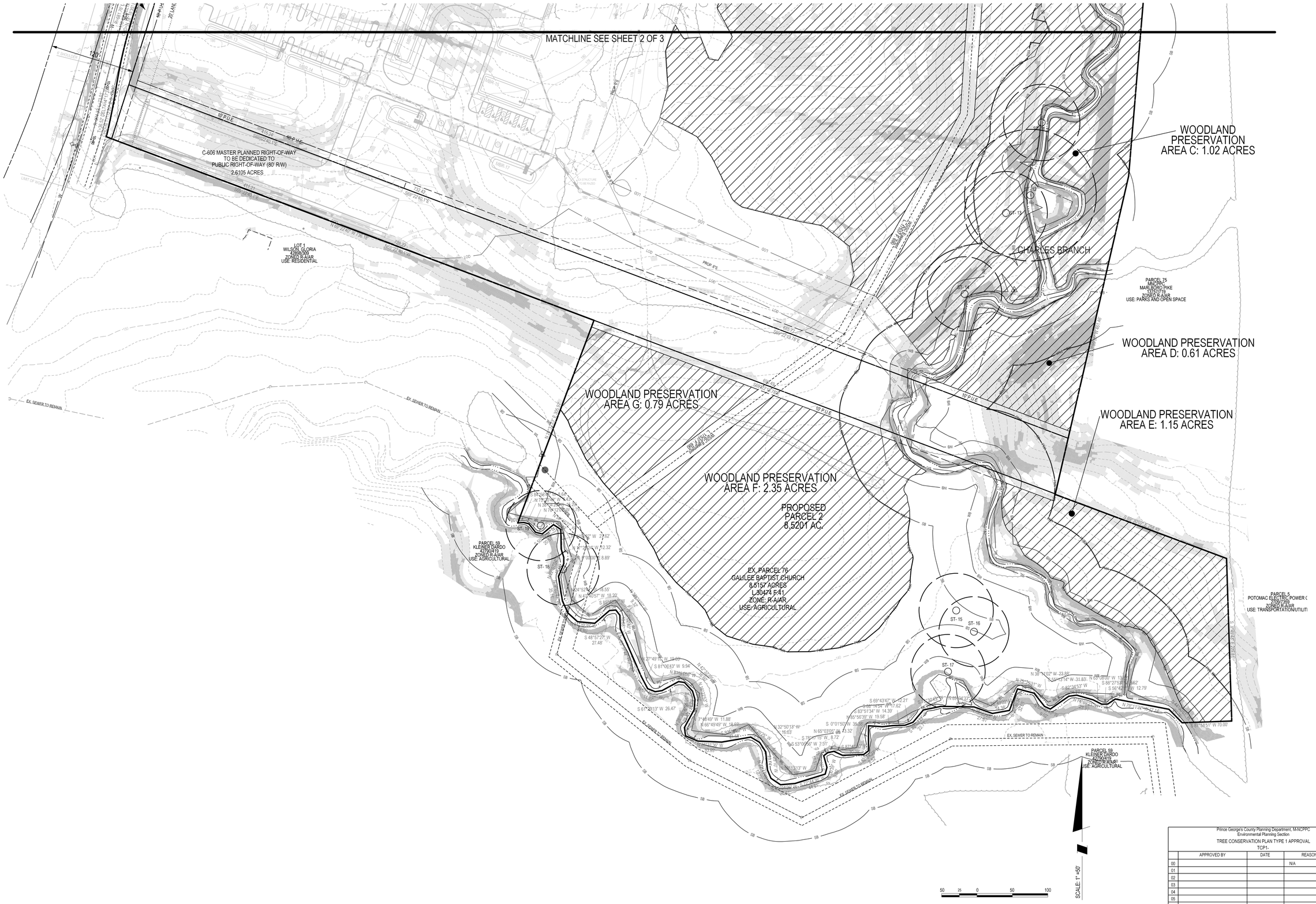

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN TYPE 1 APPROVAL
TCP1-

	APPROVED BY	DATE	REASON FOR REVISION
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03			
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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

ONE INCH
1" = 50'

C-9
SHEET 3 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

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 RE/AFFORESTATION SHALL BE ADDED TO THE PLAN AS FOLLOWS:
FOUR-YEAR MANAGEMENT PLAN FOR RE/AFFORESTION 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 M-NCPPC, 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 RECOMMENDED 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).

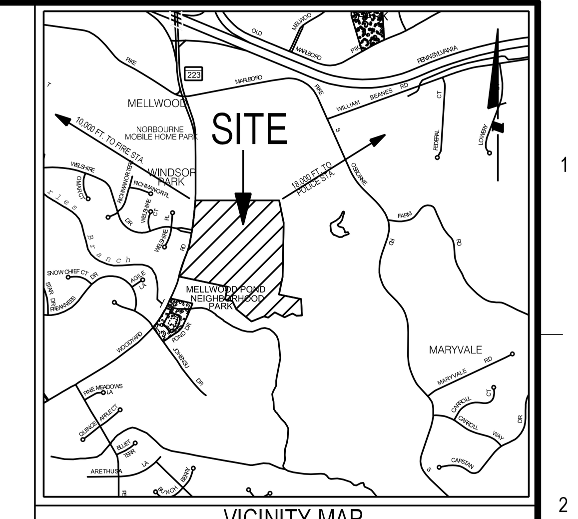
13. GROUNDCOVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.

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:

SCALE: 1" =150'



VICINITY MAP
SCALE: 1"=2000'

PROPERTY BOUNDARY
EXISTING CONTOUR (146)
PROPOSED CONTOUR (146)
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)
SPECIMEN TREE TO BE REMOVED
STEEP SLOPES 15% & GREATER
WOODLAND PRESERVATION AREA
REFORESTATION AREA
NATURAL REGENERATION
REFORESTATION SIGN
WOODLAND PRESERVATION SIGN
TREE PORECTION FENCE (TEMPORARY)
SPLIT RAIL FENCE

Specimen Trees

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

*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

MARYLAND DEPARTMENT OF NATURAL RESOURCES

Larry Hogan, Governor
Boyd Rutherford, Lt. Governor
Mark Belton, Secretary
Joanne Throwe, Deputy Secretary

February 3, 2016

Mr. John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, Maryland 20601

RE: Environmental Review for Galilee Baptist Church, East side of Woodyard Road, and South of Pennsylvania Avenue, Tax Map 100, Parcels 76 & 78, Prince George's County, Maryland.

Dear Mr. Markovich:

The Wildlife and Heritage Service has determined that there are no official State or Federal records for listed plant or animal species within the delineated area shown on the map provided. As a result, we have no specific concerns regarding potential impacts or recommendations for protection measures at this time. Please let us know however if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2016.0096.pg

Tawes State Office Building – 580 Taylor Avenue – Annapolis, Maryland 21401
410-260-8DNR or toll free in Maryland 877-620-8DNR – dnr.maryland.gov – TTY Users Call via the Maryland Relay
13

Standard Woodland Conservation Worksheet for Prince George's County

#	Item	Column A	Column B	Column C	Column D
	SECTION I-Establishing Site Information- (Enter acres for each zone)				
1	Zone:	R-A			
2	Gross Tract:	49.97			
3	Floodplain:	4.42			
4	Previously Dedicated Land:	0.00			
5	Net Tract (NTA):	45.55	0.00	0.00	
6	TCP Number		Revision #	0	
7	Property Description or Subdivision Name:	Galilee Baptist Church			
8	Is this site subject to the 1989 Ordinance?(Y/N)	N			
9	Is this one (1) single family lot? (Y,N)	N			
10	Are there prior TCP approvals which include a	N			
11	combination of this lot/s? (Y,N)				
12	Is any portion of the property in a WC Bank?	N			
13	Break-even Point (preservation) =	24.44	acres		
14	Clearing permitted w/o reforestion=	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)
15	Existing Woodland		31.11	3.38	
16	Woodland Conservation Threshold (WCT) =	50.00%	22.78		
17	Smaller of 13 or 14		22.78		
18	Woodland above WCT		8.34		
19	Woodland cleared		9.00	0.07	0.00
20	Woodland cleared above WCT (smaller of 16 or 17)		8.34		
21	Clearing above WCT (0.25 : 1) replacement requirement		2.08		
22	Woodland cleared below WCT		0.66		
23	Clearing below WCT (2:1 replacement requirement)		1.33		
24	Afforestation Required Threshold (AFT) =	20.00%	0.00		
25	Off-site WCA being provided on this property		0.00		
26	Woodland Conservation Required		**25.59**	acres	
	SECTION III-Meeting the Requirements (Enter acres for each corresponging column)				
27	Woodland Preservation		22.11		
28	Afforestation / Reforestation		3.32	Bond amount:	$ 45,476.64
29	Natural Regeneration		0.16		
30	Landscape Credits		0.00		
30	Specimen/Historic Tree Credit (CRZ area * 2.0)	0.00	0.00		
31	Forest Enhancement Credit (Area * .25)	0.00	0.00		
32	Street Tree Credit (Existing or 10-year canopy coverage)		0.00		
33	Area approved for fee-in-lieu/PFA		0.00	Fee amount:	$0.00
34	Area approved for fee-in-lieu/non-PFA		0.00	Fee amount:	$0.00
35	Off-site Woodland Conservation Credits Required		0.00		
36	Off-site WCA (preservation) being provided on this property		0.00		
37	Off-site WCA (afforestation) being provided on this property		0.00		
38	Woodland Conservation Provided		**25.59**	acres	
39	Area of woodland not cleared	22.11	acres		
40	Net tract woodland retained not part of requirements:	0.00	acres		
41	100-floodplain woodland retained	3.31	acres		
42	On-site woodland conservation provided	25.59	acres		
43	On-site woodland retained not credited	3.31	acres		
44	Prepared by:	Signed		Date	

Gross Tract Area	100-year Floodplain (FP)	Net Tract Area (NTA)	Existing Woodland (NTA)	Existing Woodland (FP)	Woodland Cleared (C-NTA)	Woodland Cleared (C-FP)	Woodland Preserved (WPA)	Woodland Reforestation (WRA)	Woodland Retained/Not Credited (WR-NC)	Woodland Retained/Assumed Cleared (WR-AC)	Natural Regeneration Area (NRA)
49.97	4.42	45.55	31.11	3.38	8.98	0.04	22.13	3.48	0.00	0.00	0.16

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-B4
Administrative	WSSC Grid (Sheet 200)	208SE09
Administrative	Planning Area (Plan Area)	6
Administrative	Election District (ED)	15
Administrative	Councilmanic District (CD)	9
Administrative	General Plan 2002 Tier (Tier)	DEVELOPING
Administrative	Traffic Analysis Zone (COG)	1265
Administrative	PG Traffic Analysis Zone (PG)	2662

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

WPA	ACRES
A	13.34
B	1.02
C	2.13
D	0.83
E	0.25
F	0.80
G	3.74
TOTAL	22.11
WRA	**ACRES**
A	0.96
B	0.55
C	1.61
D	0.20
TOTAL	3.32
C-FP	**ACRES**
A	0.07
TOTAL	0.07
NRA	**ACRES**
A	0.04
B	0.12
TOTAL	0.16

Property Owners Awareness Certificate

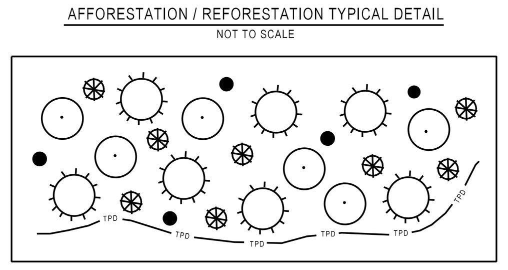
I/ We Galilee Baptist Church hereby acknowledge that we are aware of this Type 1 Tree Conservation Plan (TCP1) and that we understand the requirements as set forth in this TCP1.

Owner or Owners Representative 10/23/2018 Date

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

AFFORESTATION / REFORESTATION TYPICAL DETAIL
NOT TO SCALE



TYPICAL PLANTING LEGEND

RED MAPLE
SWEET GUM
DOGWOOD
TULIP POPLAR
TPD — TREE PROTECTIVE DEVICE (TYPE TO BE SPECIFIED ON TCP PLAN IF REQUIRED)

PLANT LIST/RATIO FOR SEEDLINGS

	TOTAL PER MANUAL	TOTAL THIS PLAN
REFORESTATION AREA PROVIDED	1.0 ACRE	3.32 ACRES
SPECIES	NUMBER/ACRE	NUMBER/ACRE
RED MAPLE	330 SEEDLINGS	996 SEEDLINGS
TULIP POPULAR	330 SEEDLINGS	996 SEEDLINGS
SWEET GUM	230 SEEDLINGS	763 SEEDLINGS
DOGWOOD	110 SEEDLINGS	365 SEEDLINGS
TOTAL PROVIDED	1000 SEEDLINGS	3320 SEEDLINGS

NOTES:
1000 SEEDLINGS REQUIRED PER ACRE OF REFORESTATION/AFFORESTATION
USE BARE ROOT WHIPS TO FULFILL PLANTING REQUIREMENTS

"WOODLANDS PRESERVED, PLANTED OR REGENERATED IN FULFILLMENT OF WOODLAND CONSERVATION REQUIREMENTS ON-SITE HAVE BEEN PLACED IN A WOODLAND AND WILDLIFE HABITAT CONSERVATION EASEMENT RECORDED IN THE PRINCE GEORGE'S COUNTY LAND RECORDS AT LIBER FOLIO . REVISIONS TO THIS TCP2 MAY REQUIRE A REVISION TO THE RECORDED EASEMENT."

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:

COVER SHEET

TREE CONSERVATION PLAN-TYPE 2

GALILEE BAPTIST CHURCH
WOODYARD ROAD

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

ONE INCH 1" = 150'
C-10
SHEET 1 OF 3
PROJECT NO. 1404-06-00

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

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 ediition American Joint Commitee on Horticulture Nominclature.

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-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.

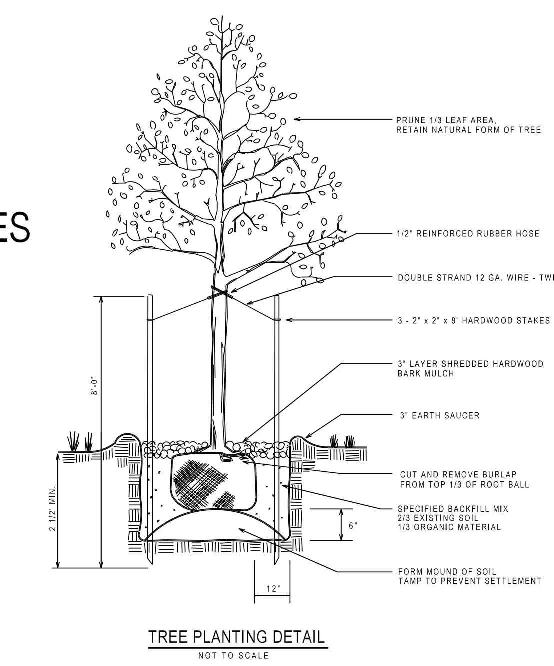
3. Prune plants at the time of planting as directed by the landscape architect to remove 1/5 or 1/3 of the foliage. Remove all dead wood, suckers or broken branches and preserve the natural charactor of the plant.

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.

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

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			

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	

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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

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:

TREE CONSERVATION PLAN-TYPE 2
GALILEE BAPTIST CHURCH
WOODYARD ROAD
MELWOOD (15TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 50'
C-11
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

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

50' BRL

10' P.U.E.

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

WOODLAND PRESERVATION AREA E: 0.25 ACRES

WOODLAND REFORESTATION AREA D: 0.20 ACRES

WOODLAND REFORESTATION AREA B: 0.55 ACRES

WOODLAND PRESERVATION AREA B: 1.02 ACRES

PARCEL 75
MNCPPC
MARLBORO PIKE
L.7975/P.78
ZONED R-A/AR
USE: PARKS AND OPEN SPACE

CLEARED FLOODPLAIN AREA B: 0.00 ACRES

PROPOSED STORMDRAIN OUTFALL

CHARLES BRANCH

CLEARED FLOODPLAIN AREA A: 0.07 ACRES

PROPOSED PARCEL 2 8.5201 AC.

WOODLAND PRESERVATION AREA C: 2.13 ACRES

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

WOODLAND PRESERVATION AREA G: 3.74 ACRES

EX. PARCEL 76
GALILEE BAPTIST CHURCH
8,5157 ACRES
L.30474 F.41
ZONE R-A/AR
USE: AGRICULTURAL

PARCEL 6
POTOMAC ELECTRIC POWER C
L.5030 F.261
ZONED R-A/AR
USE: TRANSPORTATION/UTILITI

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

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

20 147.22
10 146.88
16
6 142.51
4 139.67

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10/23/2018
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Contract Purchaser — Date

LINE TABLE		
NUMBER	BEARING	DISTANCE
L1	S3°15'1"W	17.8'
L2	N75°43'42"E	16.4'
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
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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:

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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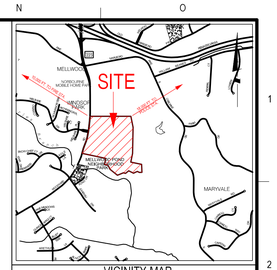

VICINITY MAP
SCALE: 1"=2000'

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.

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

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

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

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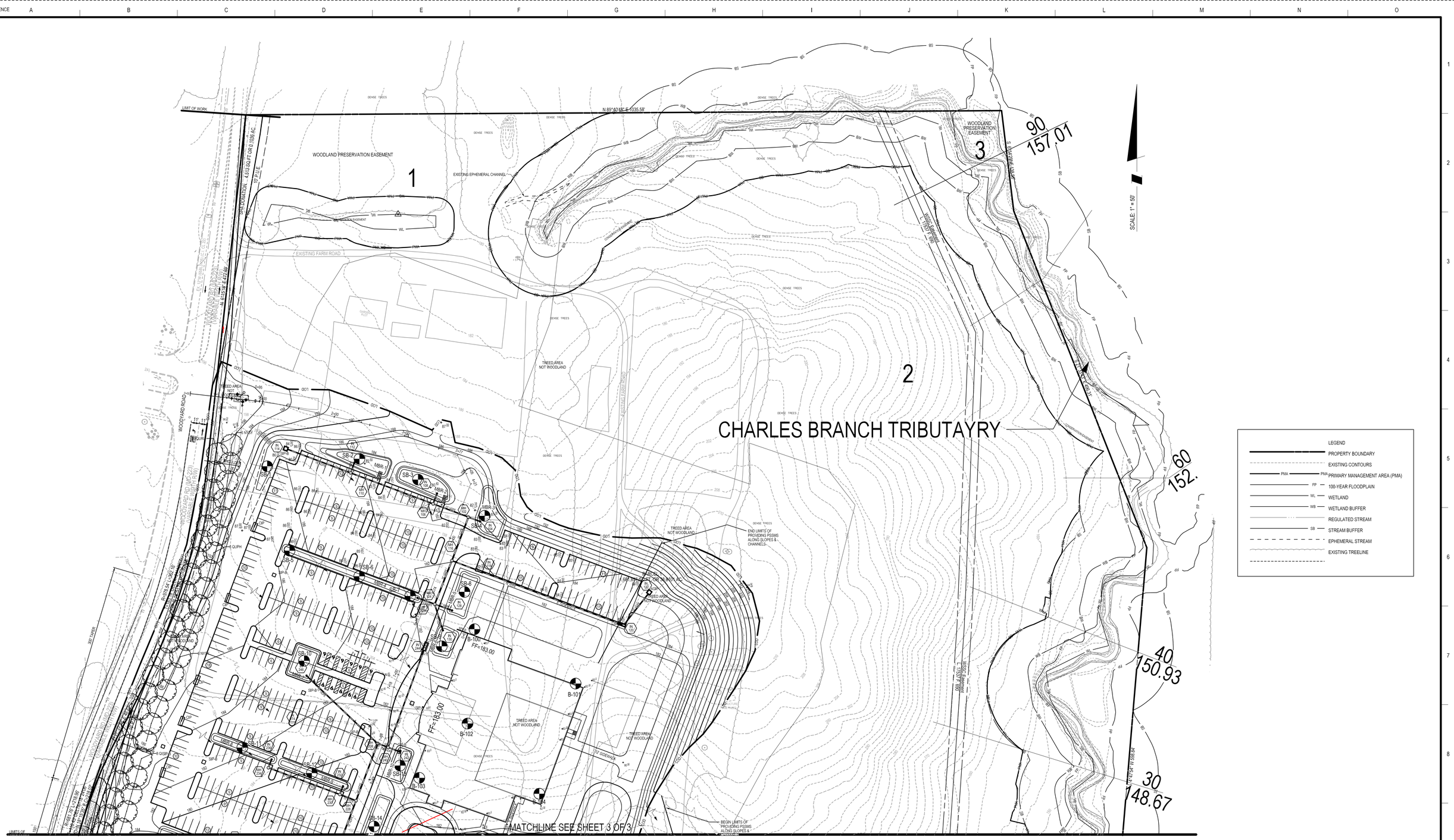

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MAP 5767 GRID J2
TAX MAP 100,B4
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WSSC 200' SHEET 208SE09 209SE09
XXXX:
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NAVD 88
XXXX:

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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WOODYARD ROAD

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

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C-15
PROJECT NO. 1404-06-00

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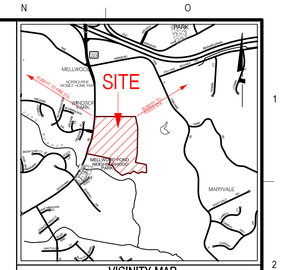
FINAL
GRADING, EROSION, AND SEDIMENT CONTROL PLAN
FOR FINE GRADING
GALILEE BAPTIST CHURCH



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

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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 01/18/2024
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 PGSCD.

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
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
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

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

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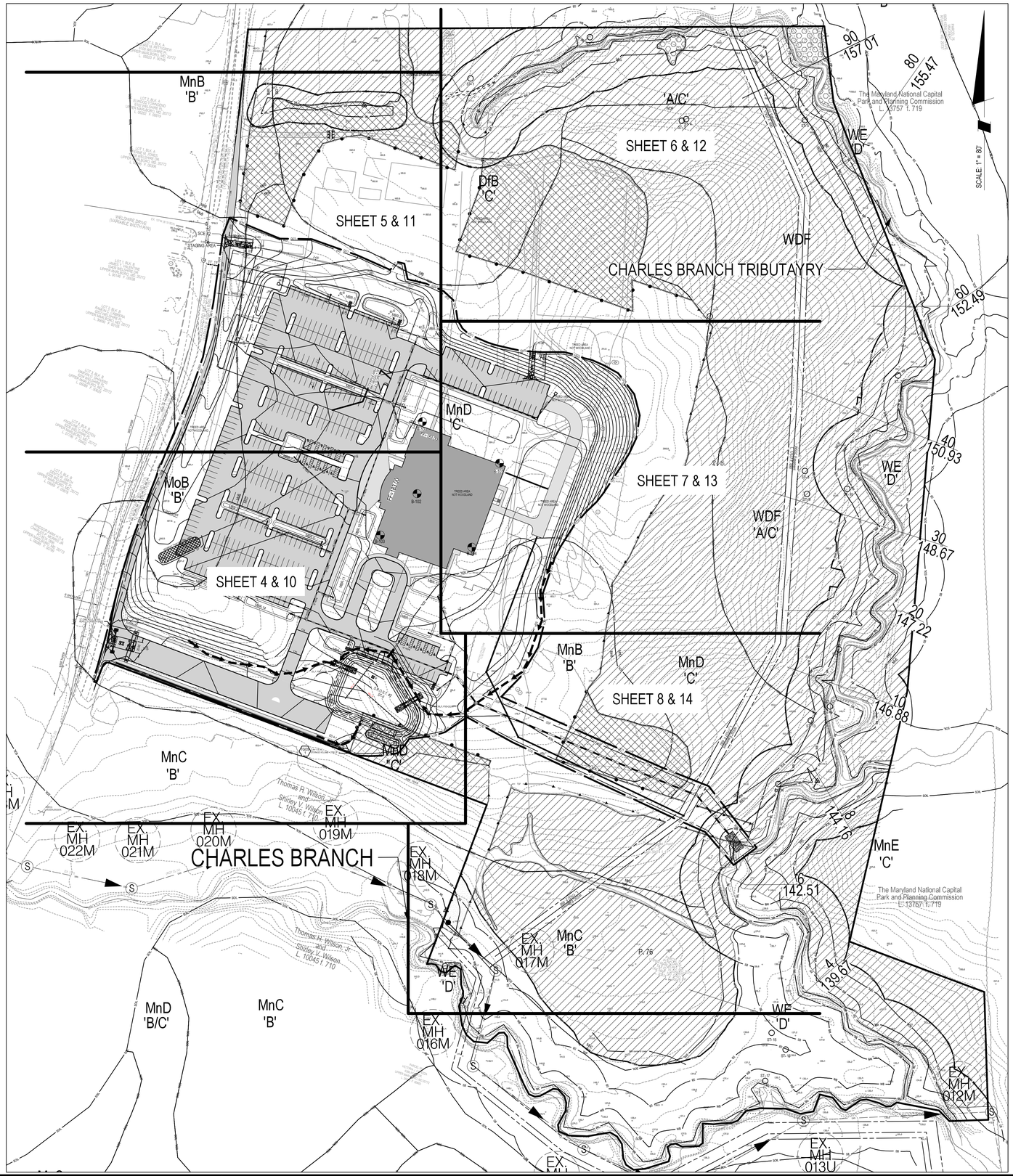

GENERAL NOTES

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.

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: 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	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

P:\14040600\ENGINEER\SEDCON\Final\FG\Scp_FinFG_02.sht Scale= 80.0000 ft / in. User= OMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:51:48 PM

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LICENSE NO. _____, EXPIRATION DATE: _____

DRAINAGE AREA & SOILS MAP

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

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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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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=218.96'
T=110.43' DELTA=18°24'06"
CHD=N 18°15'35" E C=218.02'

SSF

SEDIMENT TRAP DISPOSAL AREA

DENSE TREES

12" CMP, 40 L.F. W/ 5X5 RCP CL I 0 ON BOTH ENDS

R=971.33' L=73.01'
T=36.52' DELTA=4°18'37"
CHD=S 11°20'56" E C=73.00'

50.00'

SCE

20.00'

159' TAPER

LOD

SSS

N 69°22'40" W 736.18'

EX. 12"W (08B3105)(CT CL 22)

EX. 8"W (08B3105)(CT CL 22)

EX. 8"S (08B3105)(CT CL 22)

EX. MH

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

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

WIRE FENCE

ED A-3

D.A.=5.52 Ac.
INVERT=167.50

MAX. D.A.=3.50 Ac.

22L.F. PSD-(2)(24)

ED A-2

MAX. D.A.=1.26 Ac.

MAX. D.A.=1.07 Ac.

D.A.=3.80 Ac.
INVERT=172.20

30L.F. PSD-(2)(24)

MAX. D.A.=3.33 Ac.

19'X10' CLI
ROP II

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

INV. IN=161.75

DENSE TREES

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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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 4 OF 18

C-19

PROJECT NO. 1404-06-00

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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

P:\14040600\ENGINEER\SEDCON\Final\FG\Scp_FinFG_04.sht Scale= 30.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:51:57 PM

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WSSC 200' SHEET	
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PLAN VIEW / FINE GRADING

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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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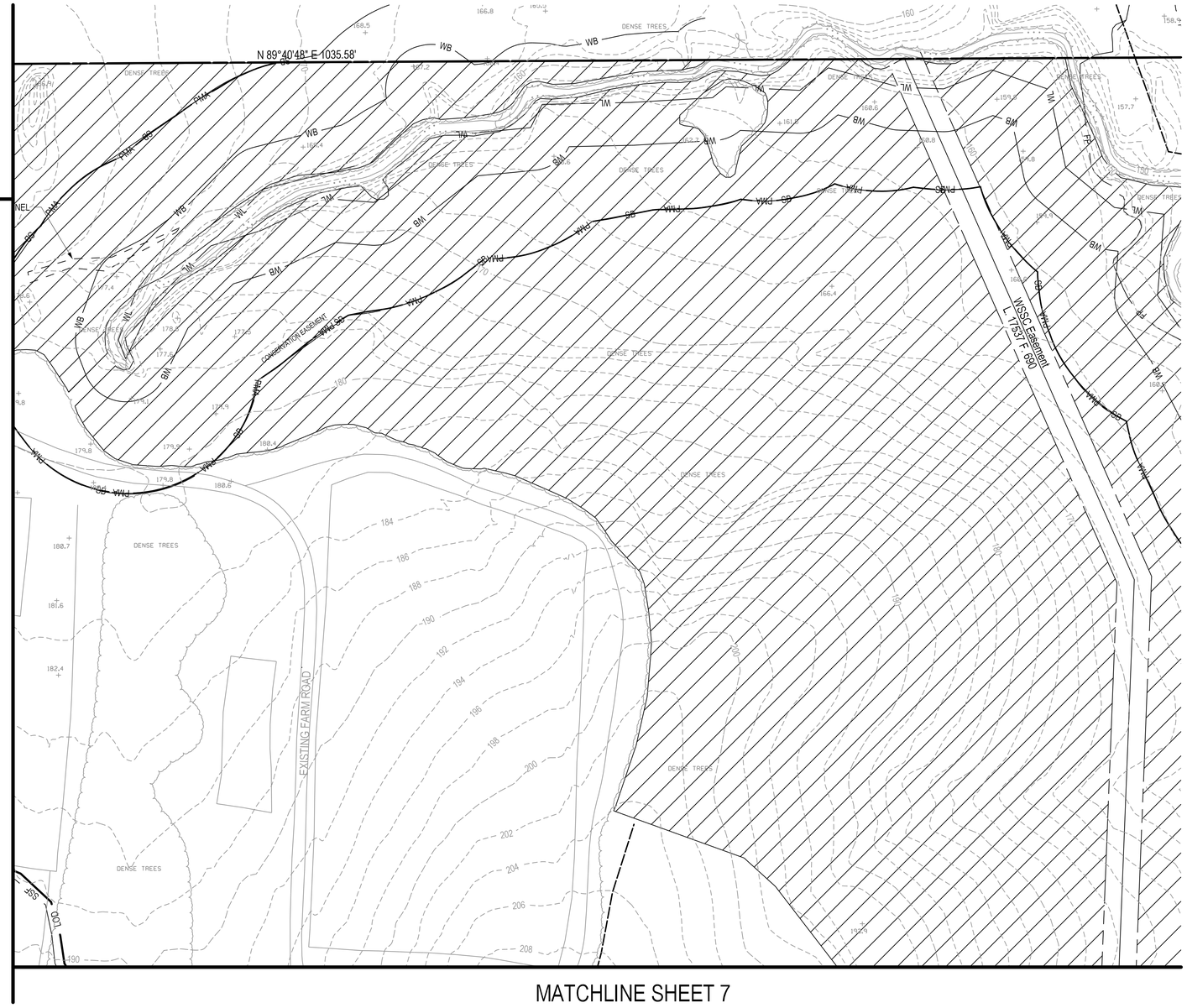

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OWNER/DEVELOPER/APPLICANT

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	

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PLAN VIEW / FINE GRADING

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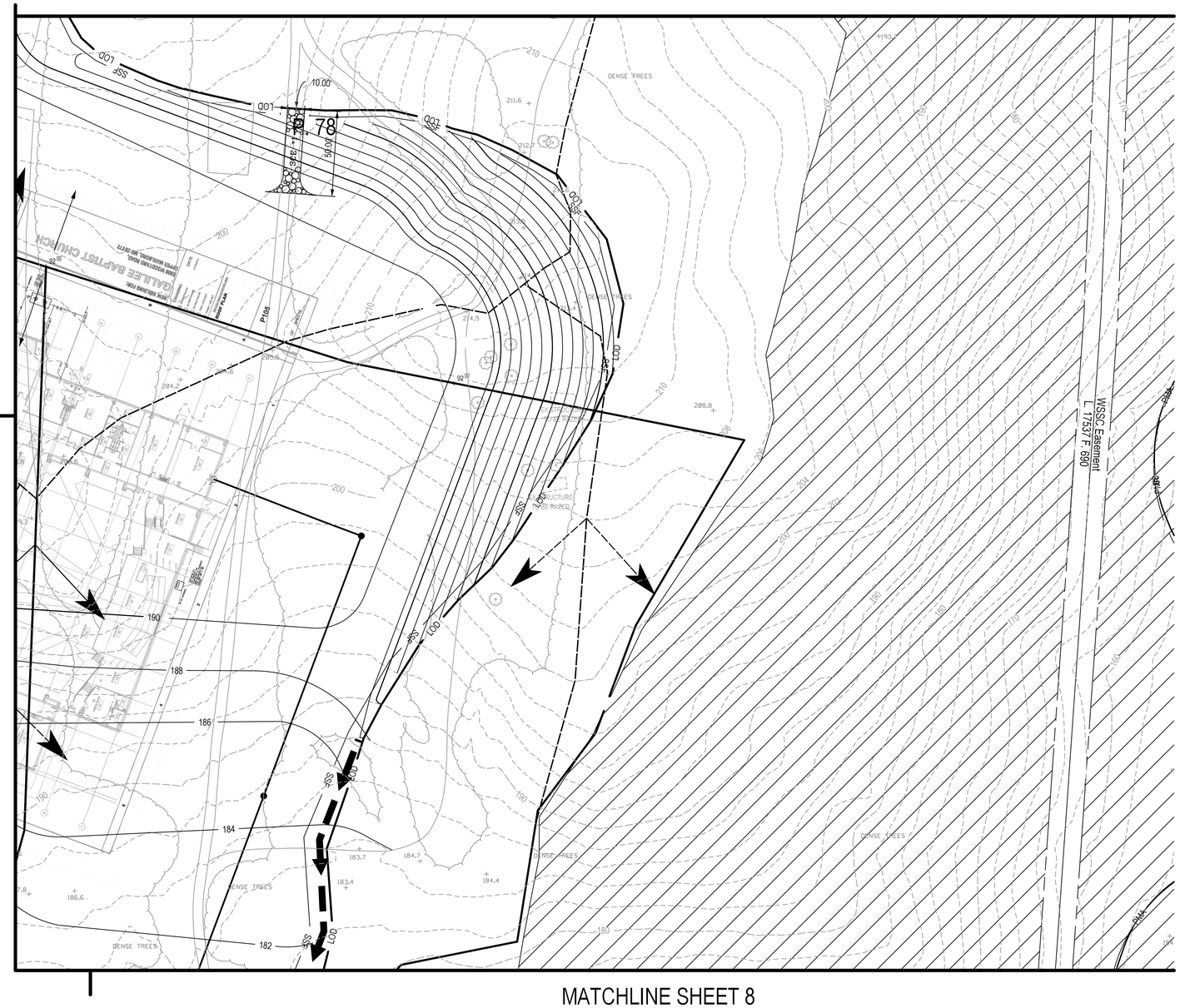
REFERENCE GRID: A B C D E F G H I J K L M N O

MATCHLINE SHEET 6

MATCHLINE SHEET 5

MATCHLINE SHEET 4

MATCHLINE SHEET 8



SCALE: 1" = 30'

30 15 0 30 60

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PLAN VIEW / FINE GRADING

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

MATCHLINE SHEET 7

MATCHLINE SHEET 4

SCALE: 1" = 30'

EX. MH 018M

EX. MH 017M

FX

Galilee Baptist Church
P. 76
Liber 30474 f. 41

P. 76
PARCEL 76
POND DRIVE
UPPER MARLBORO, MD 20772
TAX ID: 15-3356870
TAX MAP: 100 GRID: B4
L. 30474 F. 00041

MH 204
MH 202
MH 201
EW 200

MAX. D.A.=1.07 Ac.
D.A.=3.80 Ac.
INVERT=172.20
30LF, PSD-(2)(24)
MAX. D.A.=3.93 Ac.
19'X10' CLI
ROP II
INV. IN=161.75
30" HDPE @1.00%
INV. OUT=159.03
INV. IN=151.31
30" HDPE
O.S.T. #2
ST-II
WIRE FENCE
DENSE TREES
EXISTING STRUCTURE TO BE RAZED
EX.STRUCTURE TO BE RAZED
WSSC EASEMENT L.7357 F.690
CONSERVATION EASEMENT
FLOOD PLAIN EASEMENT
10' P.U.E.
Q10 = 20.14 cfs
V10=4.10 fps
S 84°56'46" W 8.64'
N 78°20'43" W 7.43'
N 38°04'28" W 15.29'
N 78°20'43" W 5.73'
N 56°46'27" W 12.42'
N 9°55'37" W 27.62'
N 17°26'24" W 12.32'
N 0°00'00" E 8.89'
N 22°07'04" E 19.68'
N 24°52'47" W 18.55'
N 47°40'57" W 18.20'
N 20°37'23" E 305.97'
S 60°35'11" E 103.47'
EX21YS
EX21YS

30 15 0 30 60

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

1" = 30'
SHEET 8 OF 18
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PROJECT NO. 14040-06-00

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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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REFERENCE GRID

PROP. POI A
D.A. = 431,810 S.F. / 9.91 Ac.
(20,206 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.

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

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

SCALE: 1" = 60'

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 111 EX 222	15" RCP MH 123 I 456
STRUCTURE NUMBERS		

60 30 0 60 120

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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'
SHEET 9 OF 18
C-24
PROJECT NO. 1404-06-00

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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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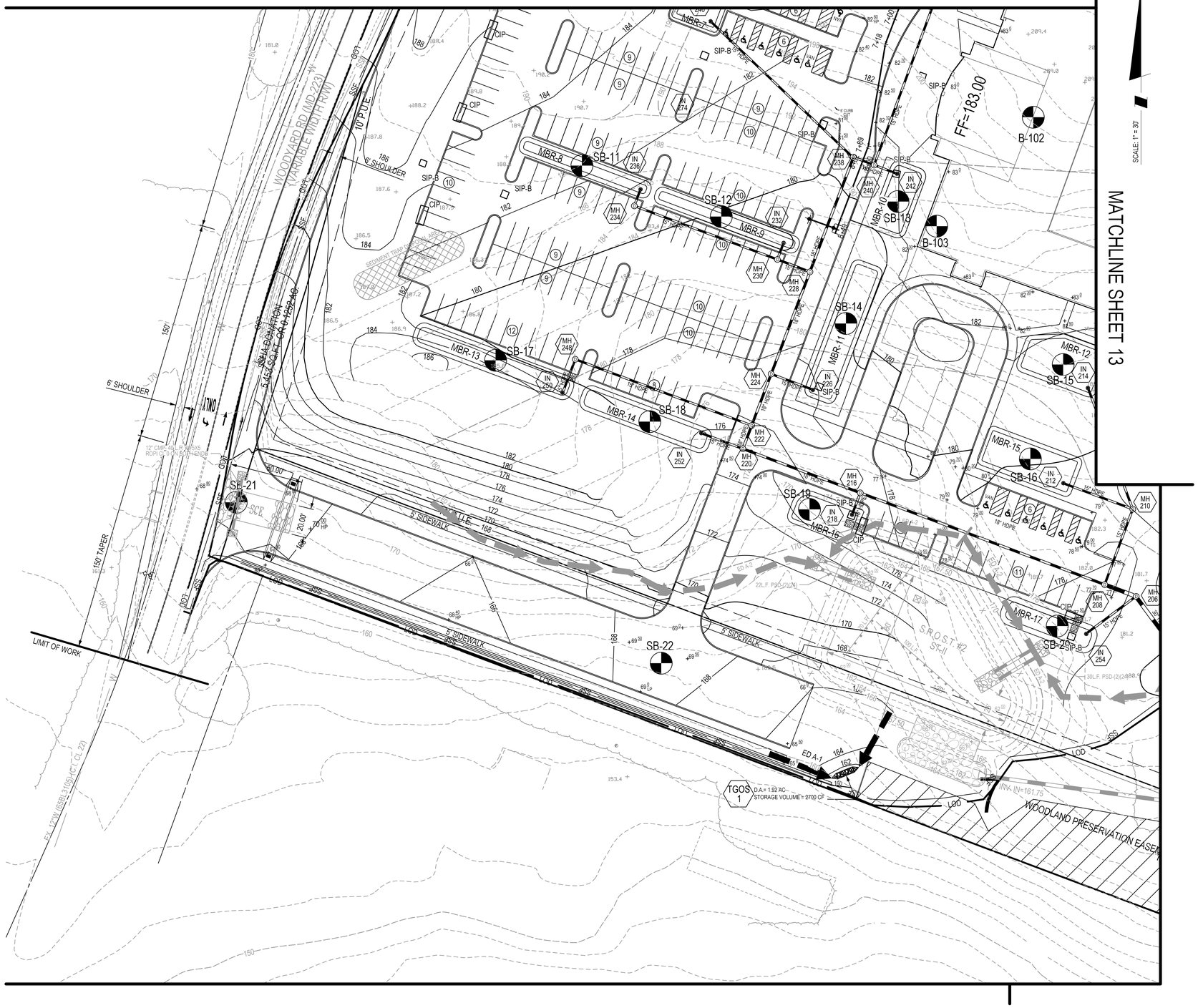
MATCHLINE SHEET 13

SCALE: 1" = 30'



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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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MATCHLINE SHEET 13

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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

1" = 30'

SHEET 11 OF 18

C-26

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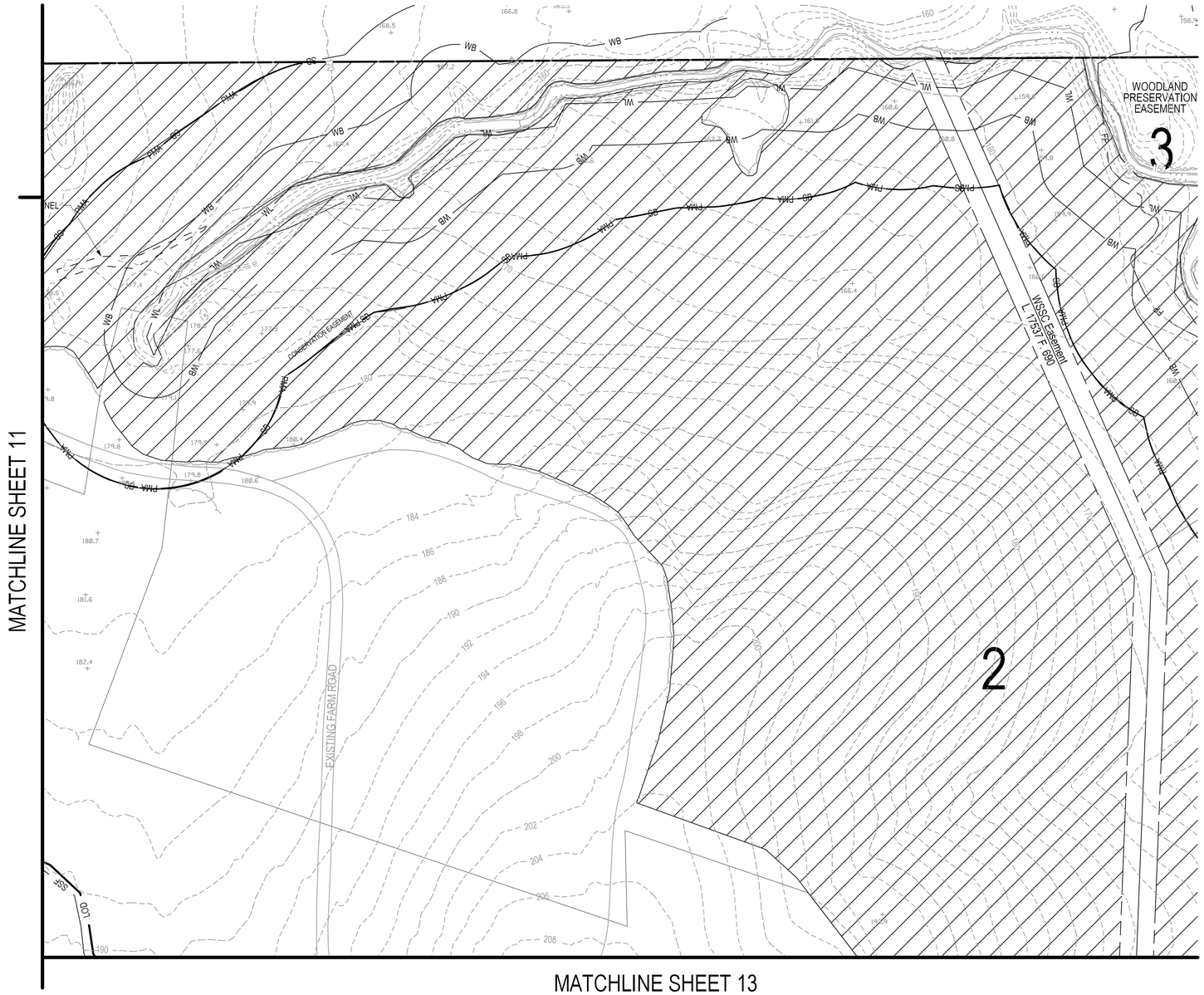

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PARCEL 78

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

1" = 30'

C-27
SHEET 12
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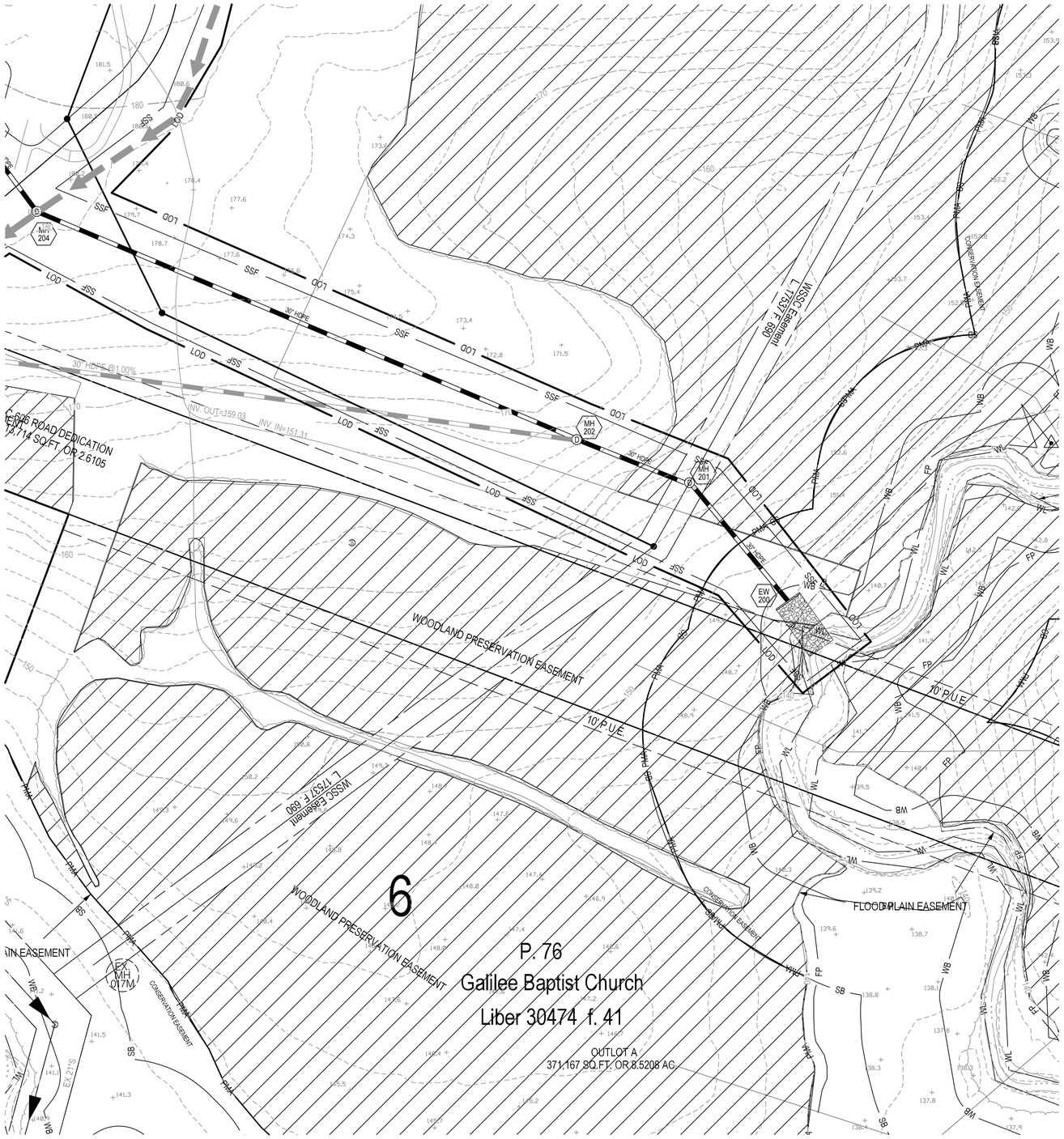

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FOR FINE GRADING
GALILEE BAPTIST CHURCH
PARCEL 78

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

ONE INCH
1" = 30'

C-28
SHEET 14
OF 18

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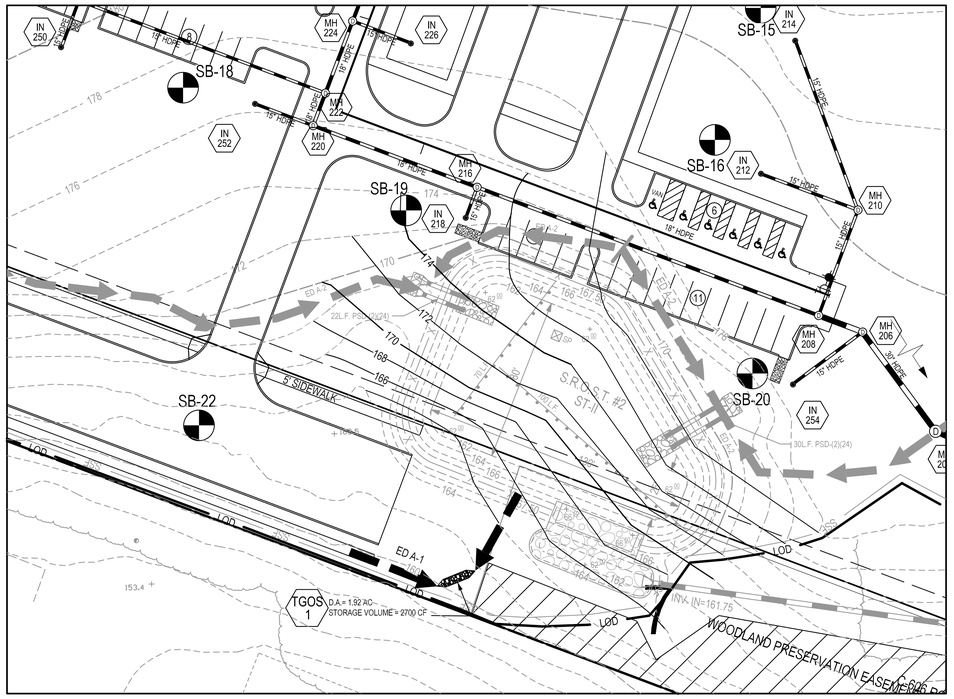

TRAP #2 REMOVAL

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FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

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

1" = 30'
C-29
SHEET 15
OF 18
PROJECT NO.
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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 SLOPE'S 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 STABLIZATION 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	LB/AC	LB/100	TIME	MOWING
TALL FESCUE MAKES UP 70 PERCENT OR MORE OF COVER	10-10-10 OR 30-10-20	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 30-10-20	250 100	5.8 2.3	SEPTEMBER, 30 DAYS LATER, DECEMBER, MAY 20, JUNE 30, IF NEEDED.	MOW 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.

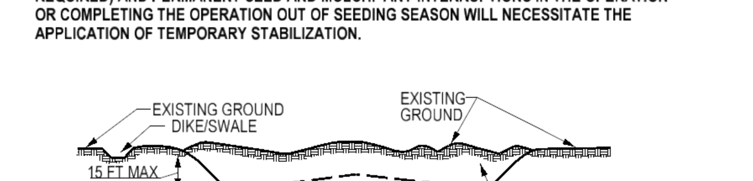

FIGURE B.1: INCREMENTAL STABILIZATION CUT

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.

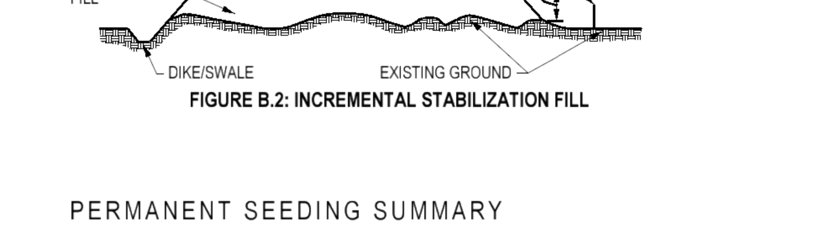

FIGURE B.2: INCREMENTAL STABILIZATION FILL

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	P_2O_5	K_2O	
1	SHEEP FESCUE	20	2/15-4/30; 5/1-5/31	1/4-1/2 IN.	45 LBS PER ACRE (1LB/1000SF)	90 LBS PER ACRE (2LB/1000SF)	90 LBS PER ACRE (2LB/1000SF)	2 TONS/AC (90LB/1000SF)
2	REDTOP	1	2/15-4/30; 5/1-5/31	1/4-1/2 IN.				
3	COMMON LESPEDEZA	10	2/15-4/30; 5/1-5/31	1/4-1/2 IN.				
4	DEERTONGUE	20	2/15-4/30; 5/1-5/31	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	P_2O_5	K_2O	
1	TALL FESCUE	40	2/15-4/30; 8/15-10/31	1/4-1/2 IN.	45 LBS PER ACRE (1LB/1000SF)	90 LBS PER ACRE (2LB/1000SF)	90 LBS PER ACRE (2LB/1000SF)	2 TONS/AC (90LB/1000SF)
2	PERENNIAL RYEGRASS	25	2/15-4/30; 8/15-10/31	1/4-1/2 IN.				
3	WHITE CLOVER	5	2/15-4/30; 8/15-10/31	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	P_2O_5	K_2O	
1	TALL FESCUE	100	2/15-4/30; 8/15-10/31	1/4-1/2 IN.	45 LBS PER ACRE (1LB/1000SF)	90 LBS PER ACRE (2LB/1000SF)	90 LBS PER ACRE (2LB/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 50 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 ½ 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; P2O5 (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, PETROSET, 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 AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

TABLE H.3: COMPOST

PARAMETERS[1]	ACCEPTABLE RANGE
pH	5.0 – 8.5
MOISTURE CONTENT	30% - 60%, WET WEIGHT BASIS
ORGANIC MATTER CONTENT	25% - 65%, DRY WEIGHT BASIS
PARTICLE SIZE	% PASSING A SELECTED MESH SIZE, DRY WEIGHT BASIS 3 IN (75 MM), 100% PASSING 1 IN (25 MM), 90 – 100% PASSING 0.75 IN (19 MM), 70 – 100% PASSING 0.25 IN (6.4 MM), 30 – 60% PASSING 0.04 IN (1 MM), 30% MIN PASSING
PHYSICAL CONTAMINANTS (MANMADE INERTS)	<1% DRY WEIGHT BASIS

ADAPTED FROM AASHTO STANDARDS SPECS FOR COMPOST FILTER SOCKS AND EPA EXAMPLE COMPOST FILTER PARAMETERS.

[1] RECOMMENDED TEST METHODOLOGIES ARE PROVIDED IN TEST METHODS FOR THE EXAMINATION OF COMPOSTING AND COMPOST (TMEC, THE U.S. COMPOSTING COUNCIL)

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

TEMPORARY STABILIZATION MAY BE USED FOR EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

Temporary Seeding Summary

HARDINESS ZONE (FROM FIGURE B.3): 7A SEED MIXTURE (FROM TABLE B.1): COOL-SEASON GRASSES					FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATE	SEEDING DEPTHS		
1	ANNUAL RYEGRASS	40	2/15-4/30; 8/15-11/30	0.5	436 LBS/AC (10LB/1000SF)	2 TONS/AC (90LB/1000SF)

HARDINESS ZONE (FROM FIGURE B.3): 7A SEED MIXTURE (FROM TABLE B.1): WARM-SEASON GRASSES					FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATE	SEEDING DEPTHS		
1	FOXTAIL MILLET	30	5/1-8/14	0.5	436 LBS/AC (10LB/1000SF)	2 TONS/AC (90LB/1000SF)

STONE FOR GABION BASKETS

BASKET THICKNESS		SIZE OF INDIVIDUAL STONES	
INCHES	MM	INCHES	MM
6	150	3-5	75-125
9	225	4-7	100-175
12	300	4-7	100-175
18	460	4-7	100-175
36	910	4-12	100-300

NOTE: RECYCLED CONCRETE EQUIVALENT MAY BE SUBSTITUTED FOR ALL STONE CLASSIFICATIONS. RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE SIZES MEETING THE APPROPRIATE CLASSIFICATION, SHALL CONTAIN NO STEEL REINFORCEMENT, AND SHALL HAVE A DENSITY OF 150 POUNDS PER CUBIC FOOT.

H-1 STANDARDS AND SPECIFICATIONS FOR MATERIALS

TABLE H.1: GEOTEXTILE FABRICS

		WOVEN SLIT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MINIMUM AVERAGE ROLL VALUE[1]					
PROPERTY	TEST METHOD	MD	CD	MD	CD	MD	CD
GRAB TENSILE STRENGTH	ASTM D-4632	200 LB	200 LB	370 LB	250 LB	200 LB	200 LB
GRAB TENSILE ELONGATION	ASTM D-4632	15%	10%	15%	15%	50%	50%
TRAPEZOIDAL TEAR STRENGTH	ASTM D-4533	75 LB	75 LB	100 LB	60 LB	80 LB	80 LB
PUNCTURE STRENGTH	ASTM D-6241	450 LB		900 LB		450 LB	
APPARENT OPENING SIZE[2]	ASTM D-4751	U.S. SIEVE 30 (0.59 MM)		U.S. SIEVE 70 (0.21 MM)		U.S. SIEVE 70 (0.21 MM)	
PERMITTIVITY	ASTM D-4491	$0.05\ SEC^{-1}$		$0.28\ SEC^{-1}$		$1.1\ SEC^{-1}$	
ULTRAVIOLET RESISTANCE RETAINED AT 500 HOURS	ASTM D-4355	70% STRENGTH		70% STRENGTH		70% STRENGTH	

[1] ALL NUMERIC VALUES EXCEPT APPARENT OPENING SIZE (AOS) REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV). MARV IS CALCULATED AS THE TYPICAL MINUS TWO STANDARD DEVIATIONS. MD IS MACHINE DIRECTION: CD IS CROSS DIRECTION.

[2] VALUES FOR AOS REPRESENT THE AVERAGE MAXIMUM OPENING.

GEOTEXTILES MUST BE EVALUATED BY THE NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP) AND CONFORM TO THE VALUES IN TABLE H.1.

THE GEOTEXTILE MUST BE NEXT TO COMMONLY ENCOUNTERD CHEMICALS AND HYDROCARBONS AND MUST BE ROT AND MILDEW RESISTANT. THE GEOTEXTILE MUST BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS AND COMPOSED OF A MINIMUM OF 95 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS, AND FORMED INTO A STABLE NETWORK SO THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES.

WHEN MORE THAN ONE SECTION OF GEOTEXTILE IS NECESSARY, OVERLAP THE SECTIONS BY AT LEAST ONE FOOT. THE GEOTEXTILE MUST BE PULLED OVER THE APPLIED SURFACE. EQUIPMENT MUST NOT RUN OVER EXPOSED FABRIC. WHEN PLACING RIP RAP ON GEOTEXTILE, DO NOT EXCEED A ONE (1) FOOT DROP HEIGHT.

TABLE H.2: STONE SIZE

TYPE	SIZE RANGE	D_{50}	D_{100}	AASHTO	MIDSIZE WEIGHT[3]
NUMBER 57[1]	3/8 TO 1 ½ INCH	½ INCH	1 ½ INCH	M-43	N/A
NUMBER 1	2 TO 3 INCH	2 ½ INCH	3 INCH	M-43	N/A
RIPRAP CLASS 0[2]	4 TO 7 INCH	5 ½ INCH	7 INCH	N/A	N/A
RIPRAP CLASS I	N/A	9 ½ INCH	15 INCH	N/A	40 LB.
RIPRAP CLASS II	N/A	16 INCH	24 INCH	N/A	200 LB.
RIPRAP CLASS III	N/A	23 INCH	34 INCH	N/A	600 LB.

[1] THIS CLASSIFICATION IS TO BE USED ON THE UPSTREAM FACE OF STONE OUTLETS AND CHECK DAMS.
[2] THE CLASSIFICATION IS TO BE USED FOR GABIONS.

[3] OPTIMUM GRADATION IS 50 PERCENT OF THE STONE BEING ABOVE AND 50 PERCENT BELOW THE MIDSIZE.

STONE MUST BE COMPOSED OF A WELL GRADED MIXTURE OF STONE SIZED SO THAT FIFTY (50) PERCENT OF THE PLACE BY WEIGHT ARE LARGER THAN THE SIZE DETERMINED BY USING THE CHARTS. A WELL GRADED MIXTURE, AS USED HEREIN, IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE SIZE BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE IN SUCH A MIXTURE MUST NOT EXCEED THE REPRESENTATIVE D_{100} SELECTED FROM TABLE H.2. THE D_{50} REFERS TO THE MEDIAN DIAMETER OF THE STONE. THIS IS THE SIZE FOR WHICH 50 PERCENT, BY WEIGHT, WILL BE SMALLER AND 50 PERCENT WILL BE LARGER.

NOTE: RECYCLED CONCRETE EQUIVALENT MAY BE SUBSTITUTED FOR ALL STONE CLASSIFICATIONS FOR TEMPORARY CONTROL MEASURES ONLY. CONCRETE BROKEN INTO THE SIZES MEETING THE APPROPRIATE CLASSIFICATION, CONTAINING NO STEEL REINFORCEMENT, AND HAVING A MINIMUM DENSITY OF 150 POUNDS PER CUBIC FOOT MAY BE USED AS AN EQUIVALENT.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

A. EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

B. SEED MIXTURES

1. GENERAL USE
   - A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
   - B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.
   - C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
   - D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY .
2. TURFGRASS MIXTURES
   - A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
   - B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
     - I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
     - II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE B.22 RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
     - III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
     - IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET. **NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.**
   - C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B).
   - D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1½INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
   - E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (½TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

C. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. GENERAL SPECIFICATIONS
   - A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
   - B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
   - C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
   - D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
   - E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
2. SOD INSTALLATION
   - A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
   - B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
   - C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
   - E. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
3. SOD MAINTENANCE
   - A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
   - B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
   - C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

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:______

SOLTESZ, LLC
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Environmental Sciences
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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

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

DETAILS, STANDARDS AND SPECIFICATIONS

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN FOR FINE GRADING

GALILEE BAPTIST CHURCH

PARCEL 78

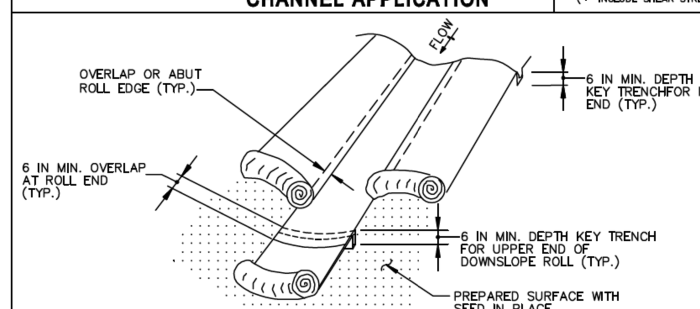
MELLWOOD (15th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = NTS
C-30
SHEET 16 OF 18
PROJECT NO. 1404-06-00

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

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

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



CONSTRUCTION SPECIFICATIONS

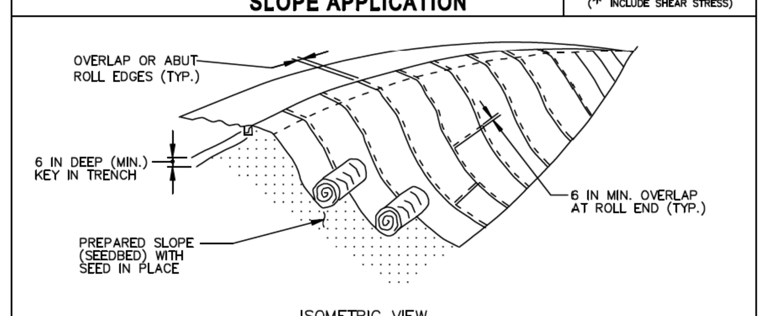
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN–MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION 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)



CONSTRUCTION SPECIFICATIONS

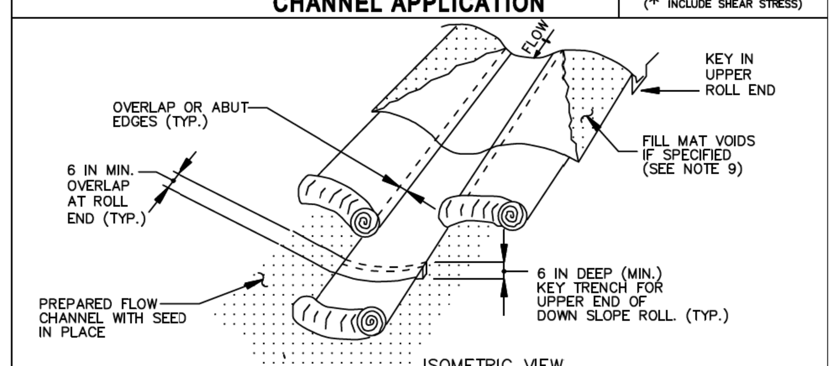
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN–MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION 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 & 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)



CONSTRUCTION SPECIFICATIONS

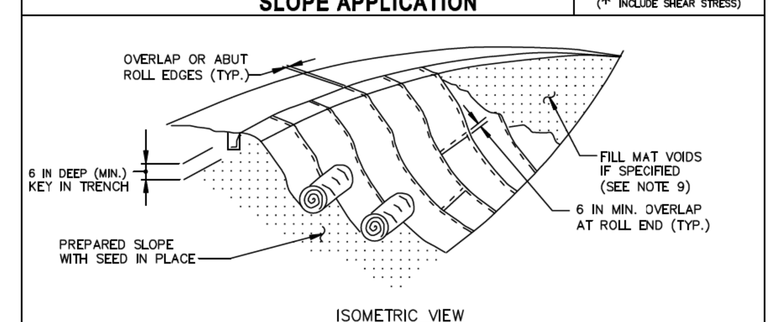
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON–DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN 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 1 ½ 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)



CONSTRUCTION SPECIFICATIONS

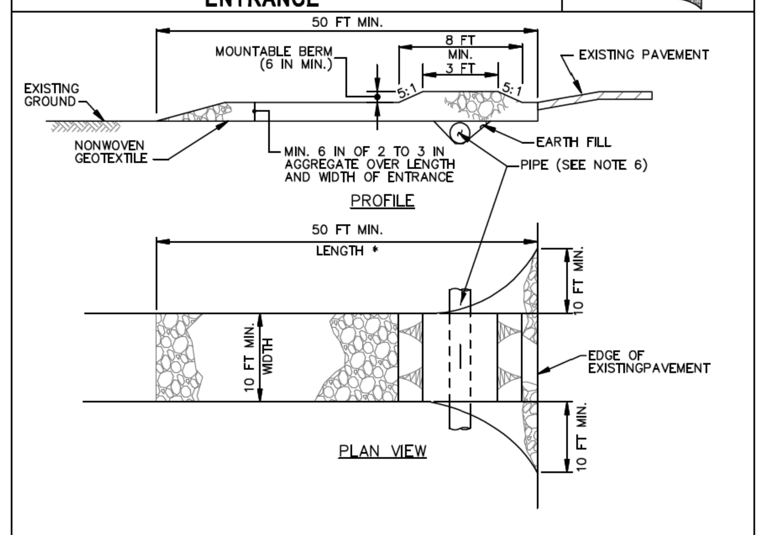
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON–DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN 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 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.
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-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL
SCE



CONSTRUCTION SPECIFICATIONS

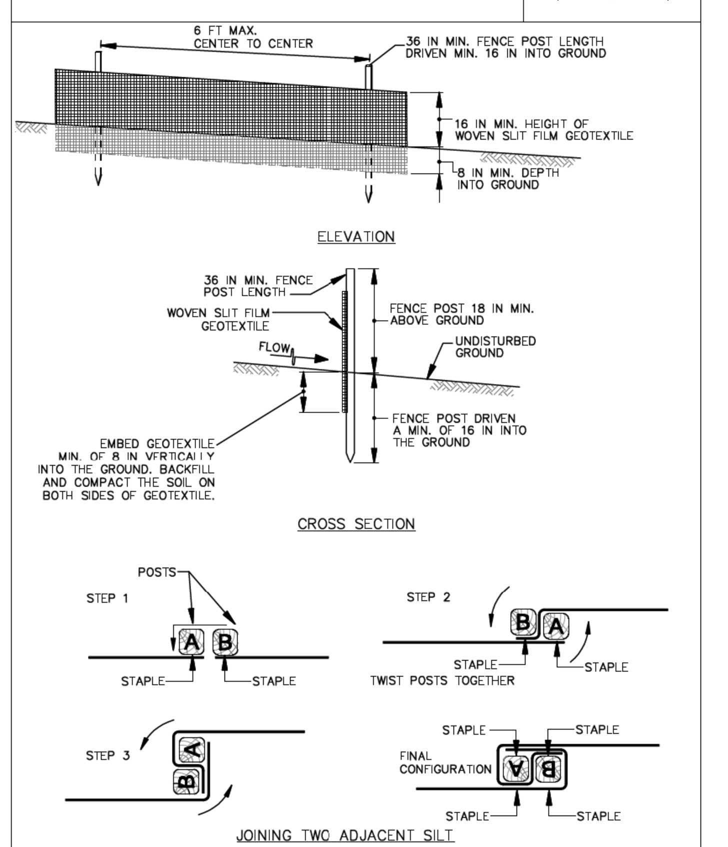
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING 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

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

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 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.

2 OF 2

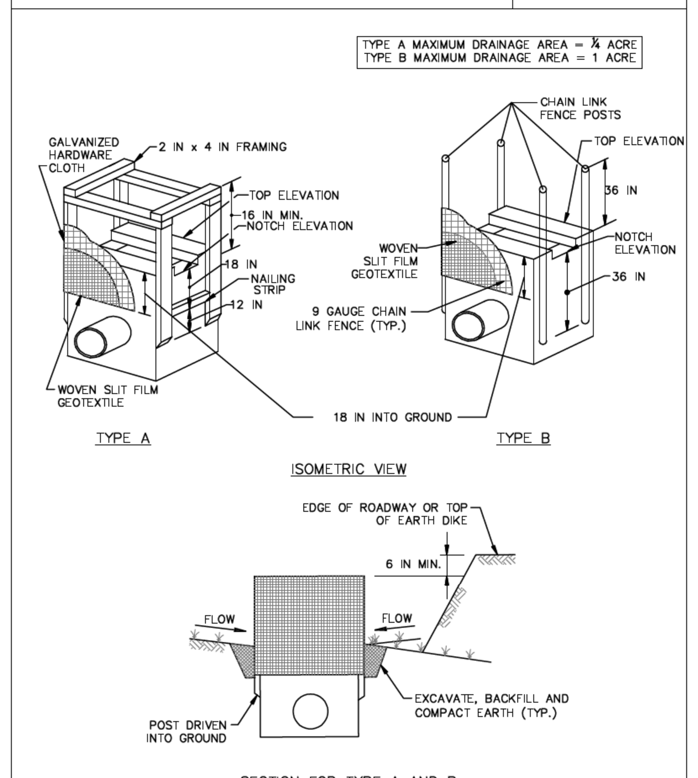
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL
SIP

TYPE A MAXIMUM DRAINAGE AREA = ¼ ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE



1 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

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 ½ 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 2⅜ 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

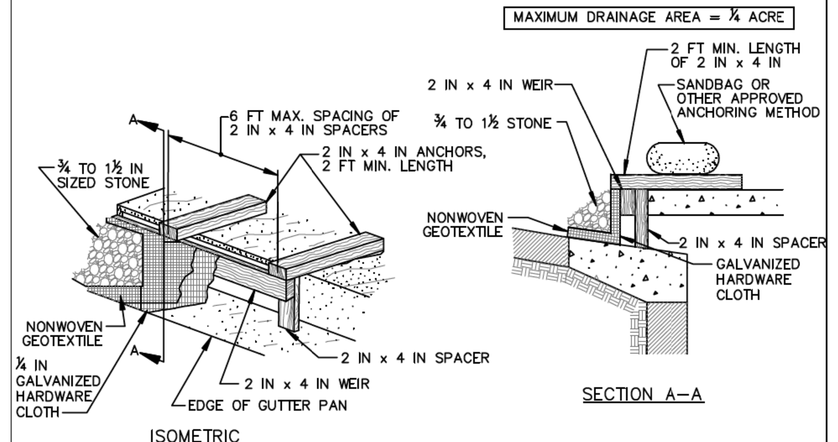
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

MAXIMUM DRAINAGE AREA = ¼ ACRE



CONSTRUCTION SPECIFICATIONS

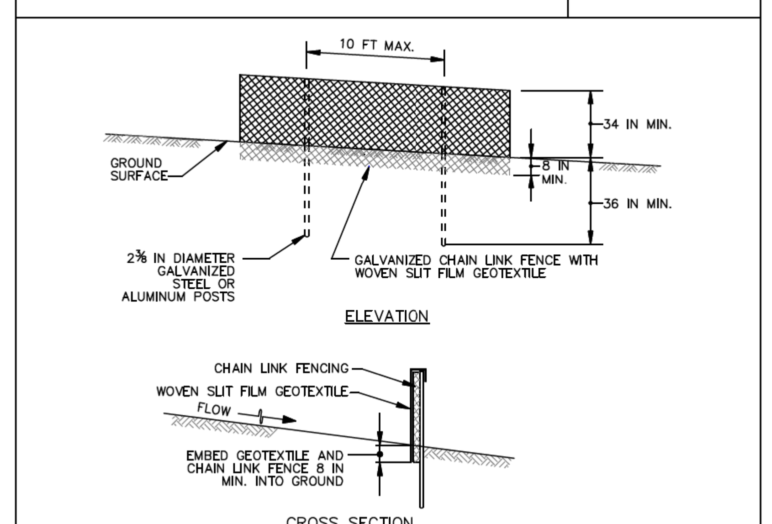
1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¼ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH 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

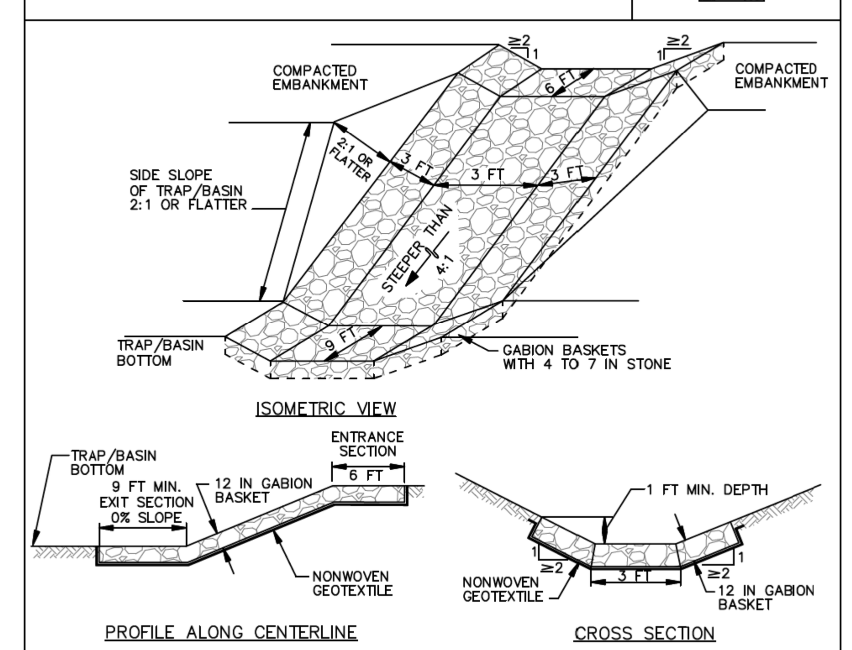
1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER 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 SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

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-3-2 GABION INFLOW PROTECTION

STANDARD SYMBOL
GP



CONSTRUCTION SPECIFICATIONS

1. PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL GABION BASKETS.
2. USE BASKETS MADE OF MINIMUM 11 GAUGE WIRE.
3. CONSTRUCT GABION INFLOW PROTECTION BY ARRANGING 9 X 3 X 1 FOOT GABION BASKETS TO FORM A TRAPEZOIDAL SECTION WITH A 3 FOOT BOTTOM WIDTH, 1 FOOT MINIMUM DEPTH, 3 FOOT SIDE WALLS, AND 2:1 OR FLATTER SIDE SLOPES. FILL GABION BASKETS WITH 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR WEIR MESH.
4. INSTALL ENTRANCE AND EXIT SECTIONS AS SHOWN ON THE PROFILE.
5. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
6. BLEND GABIONS INTO EXISTING GROUND.
7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW 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

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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.________, EXPIRATION DATE:______

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Surveying
Planning
Environmental Sciences

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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

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	

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

ONE INCH
1" = NTS

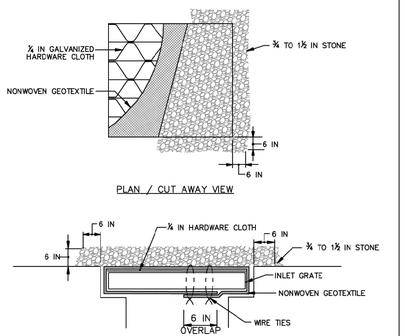
C-31
SHEET 17 OF 18

PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\SEDCON\Final\FG\Scp_FinFG_17.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 5:00:11 PM

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGIP



CONSTRUCTION SPECIFICATIONS

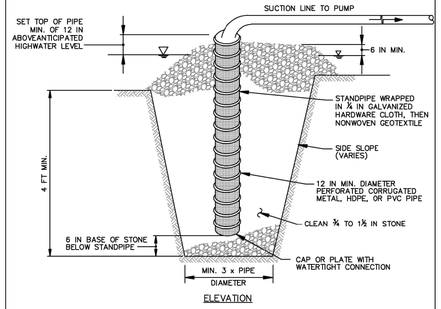
1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM 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.

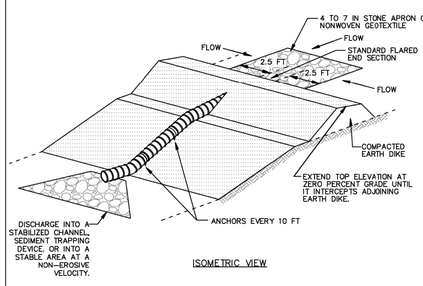
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

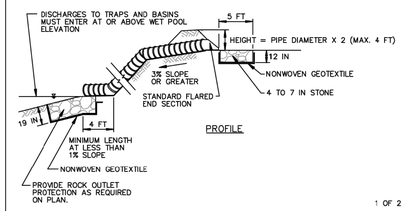
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL D-1 PIPE SLOPE DRAIN

STANDARD SYMBOL: PSD – 12

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





1 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 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.

2 OF 2

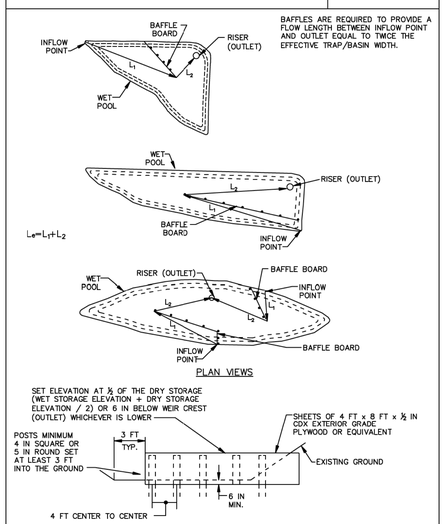
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL 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

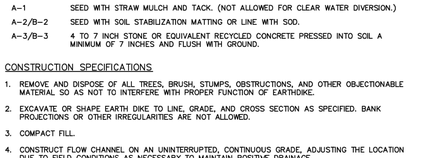
1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must 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.

DETAIL C-1 EARTH DIKE

STANDARD SYMBOL: A–1 (PLACE DESIGNATION (A-1, A-2, A-3) 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

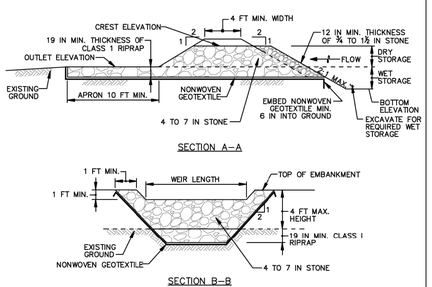
1. REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.
2. EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
3. COMPACT 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



1 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

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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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

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: _____

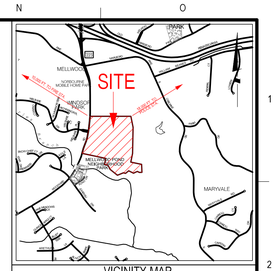
DETAILS

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

GALILEE BAPTIST CHURCH

SITE PLAN



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

COVER SHEET	1
PLAN VIEW	2-14
DETAILS	15

SCALE: 1" = 150'

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'

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'

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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, 2019	CAD STANDARDS VERSION: V8 - 2000		
DESIGNED: CV	TECHNICIAN: ZAH	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

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

P:\14040600\ENGINEER\SITE\SIT_01.sht Scale= 150.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:26 PM

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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

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

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117 RIVERVIEW RD.
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" = 50'

SHEET 2 OF 15

C-34

PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\SITE\SIT_02.sht Scale= 50.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:27 PM

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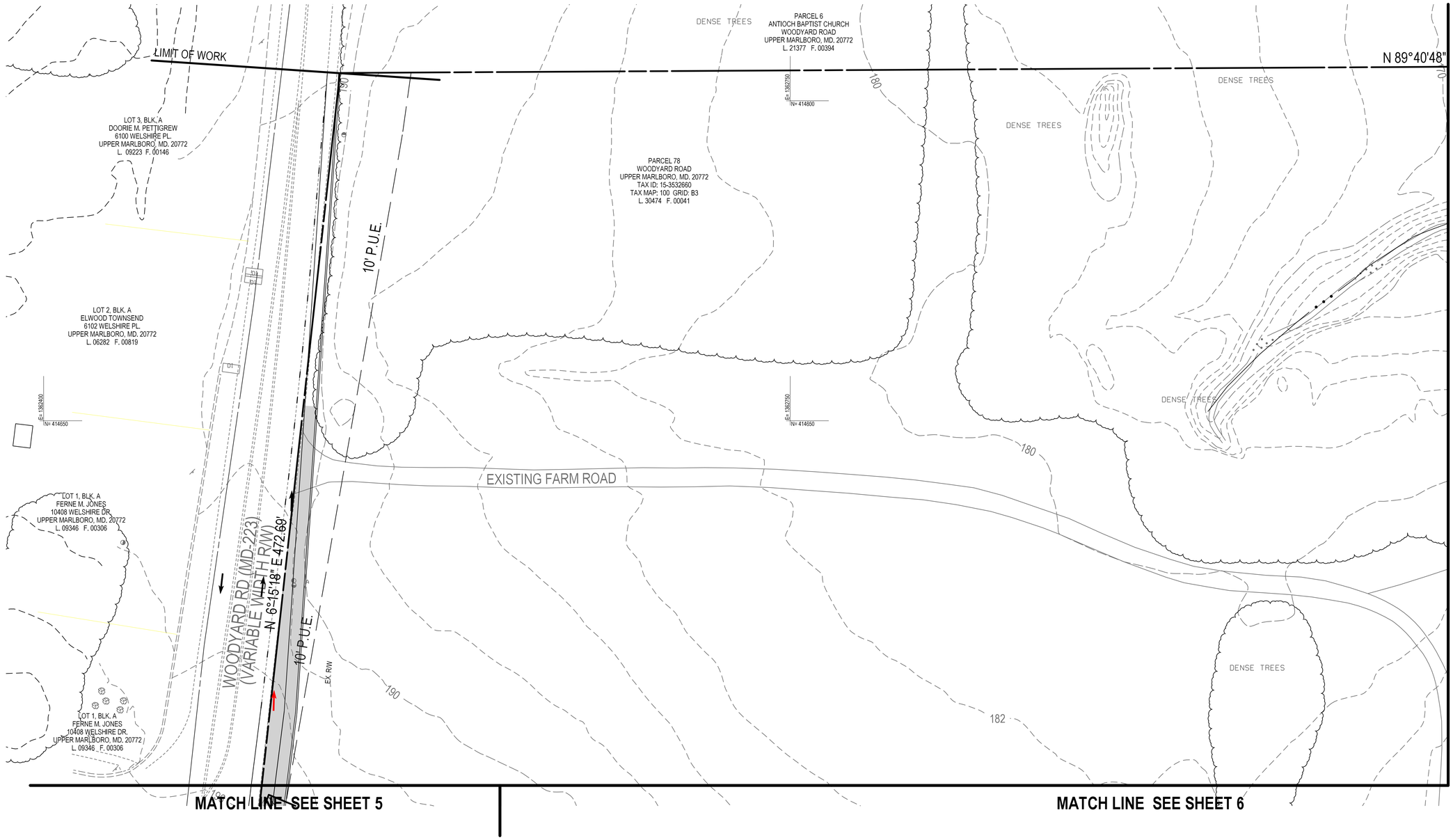
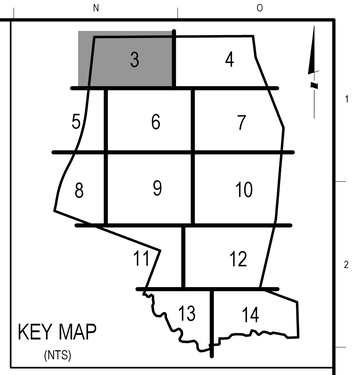
REFERENCE GRID: A B C D E F G H I J K L M N O





SCALE: 1" = 20'

GRAPHIC SCALE
1" = 20'

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NO.	REVISIONS	BY	DATE

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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	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

P:\14040600\ENGINEER\SITE\SIT_03.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:28 PM

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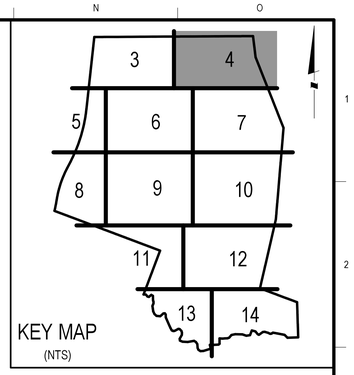

SCALE: 1" =20'

PARCEL 6
ANTIOCH BAPTIST CHURCH
WOODYARD ROAD
UPPER MARLBORO, MD. 20772
L. 21377 F. 00394

E 1035.58'

S 6°54'29" E 138.56'

Existing WSSC Easement
L. 17537 F. 690
20.00

MANHOLE 2

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

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

DENSE TREES

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 7

GRAPHIC SCALE
1" = 20'

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

1" = 20'

C-36

SHEET 4 OF 15

PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\SITE\SIT_04.sht Scale= 20.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:29 PM

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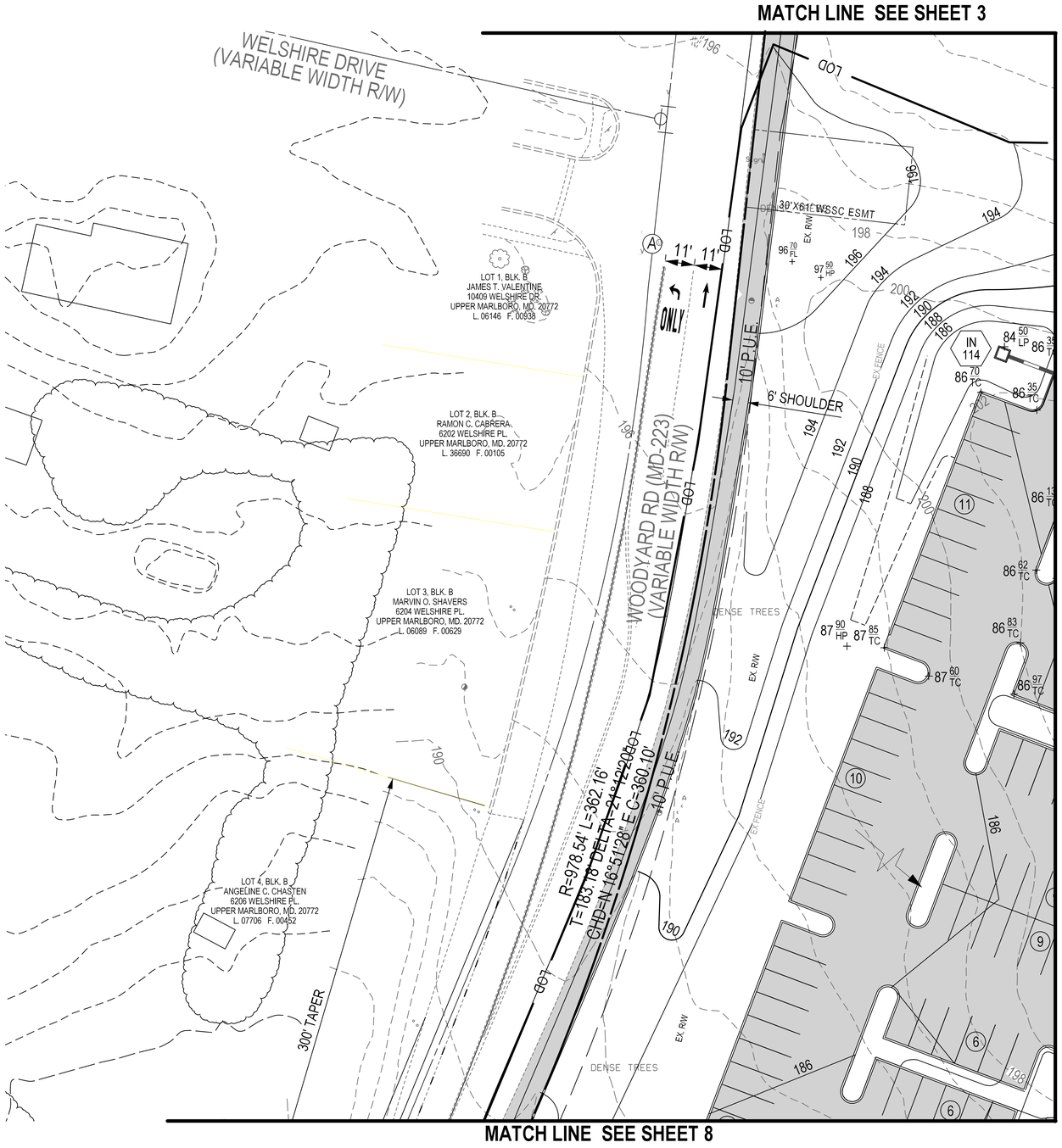

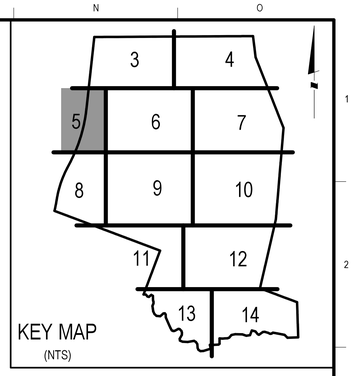

SCALE: 1" = 20'

GRAPHIC SCALE
1" = 20'

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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
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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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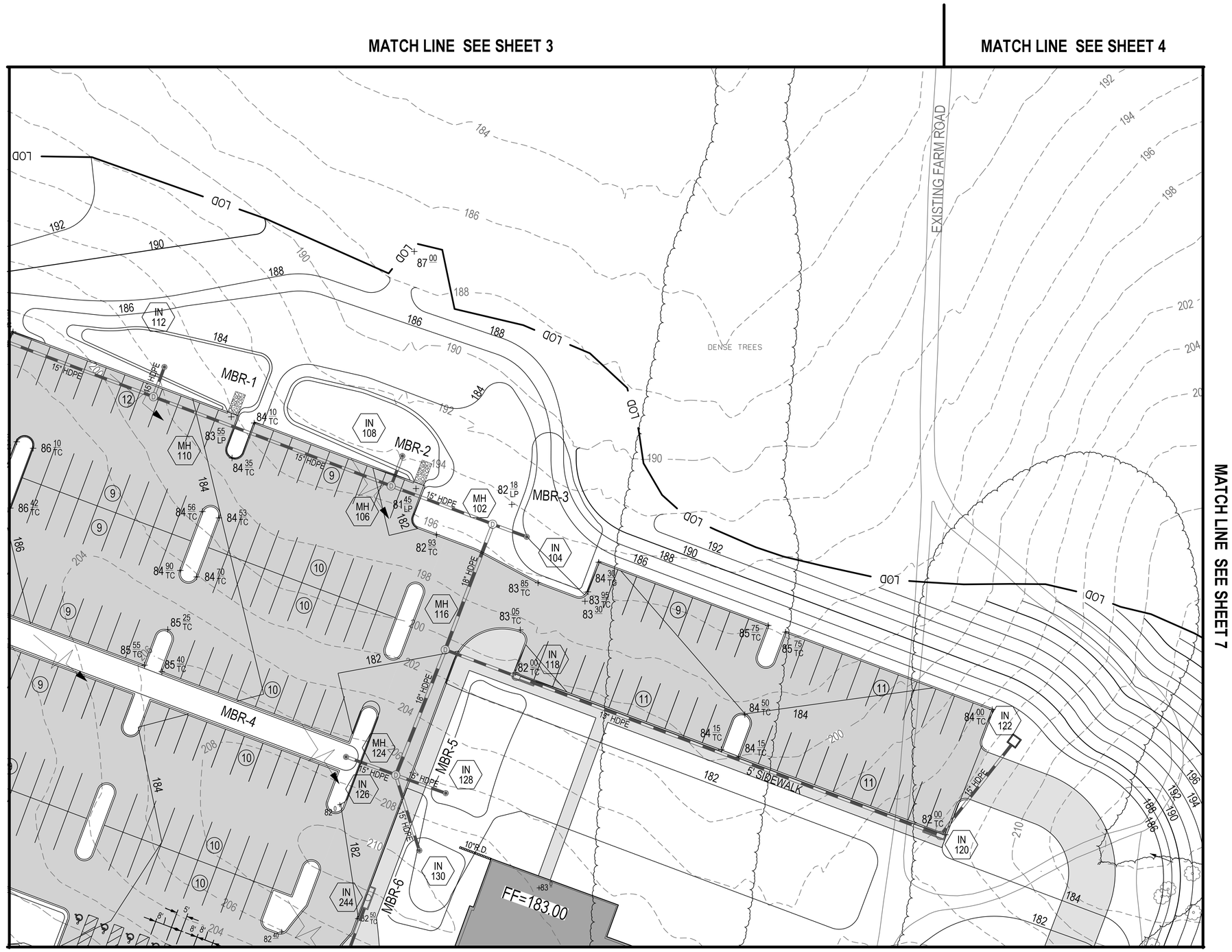

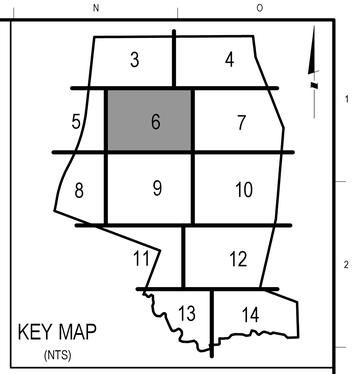

SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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DESIGNED: CV	TECHNICIAN: ZAH	CHECKED: THD	

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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

ONE INCH = 1" = 20'

C-38
SHEET 6 OF 15

PROJECT NO. 1404-06-00

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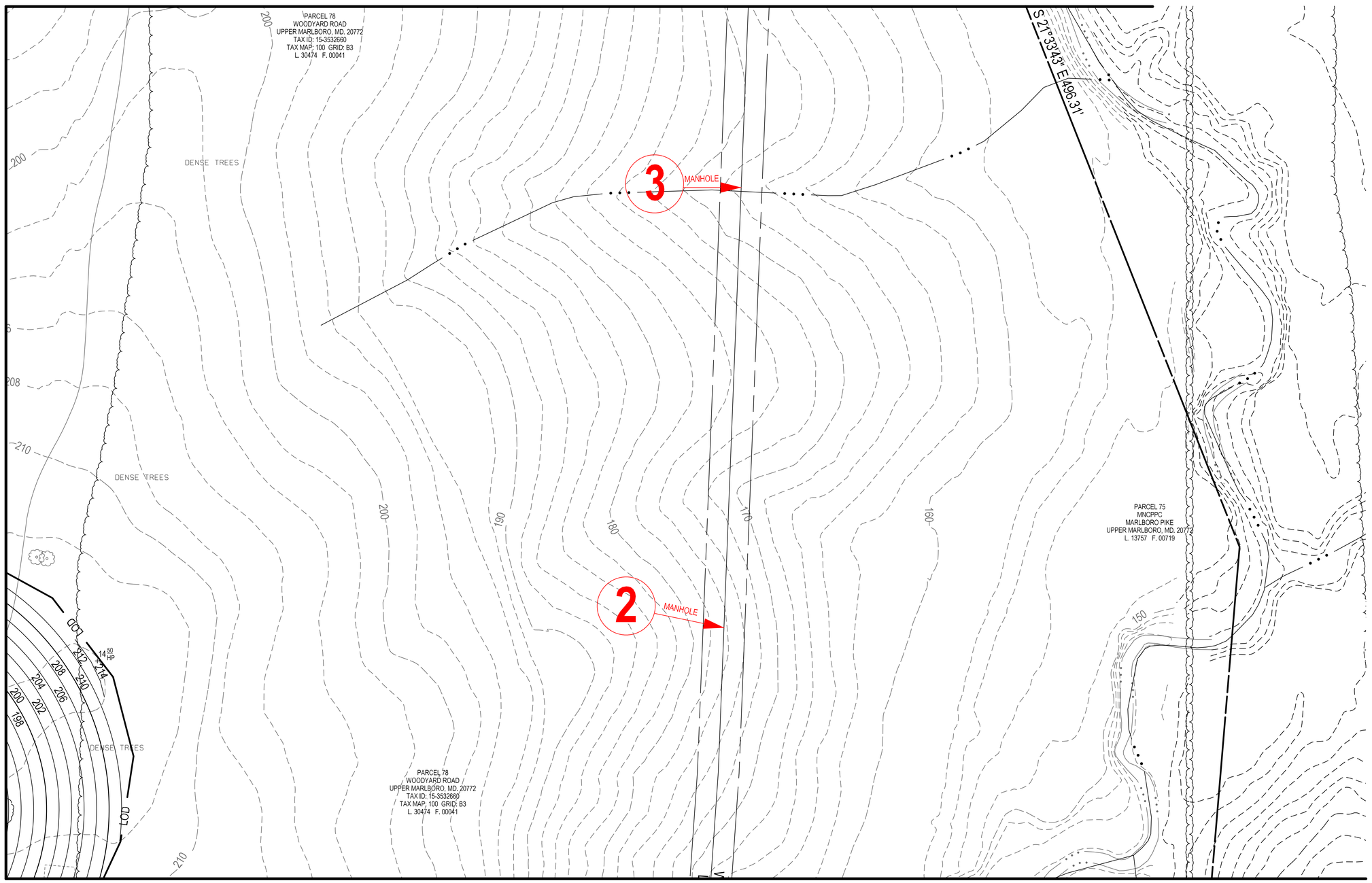
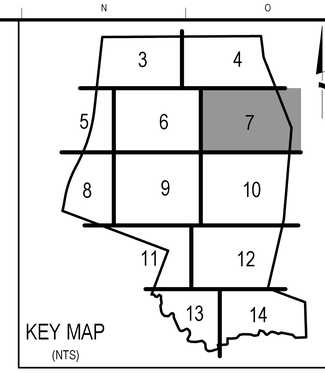
REFERENCE GRID A B C D E F G H I J K L M N O

MATCH LINE SEE SHEET 4



MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 10



SCALE: 1" = 20'

GRAPHIC SCALE
20 10 0 20 40
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 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

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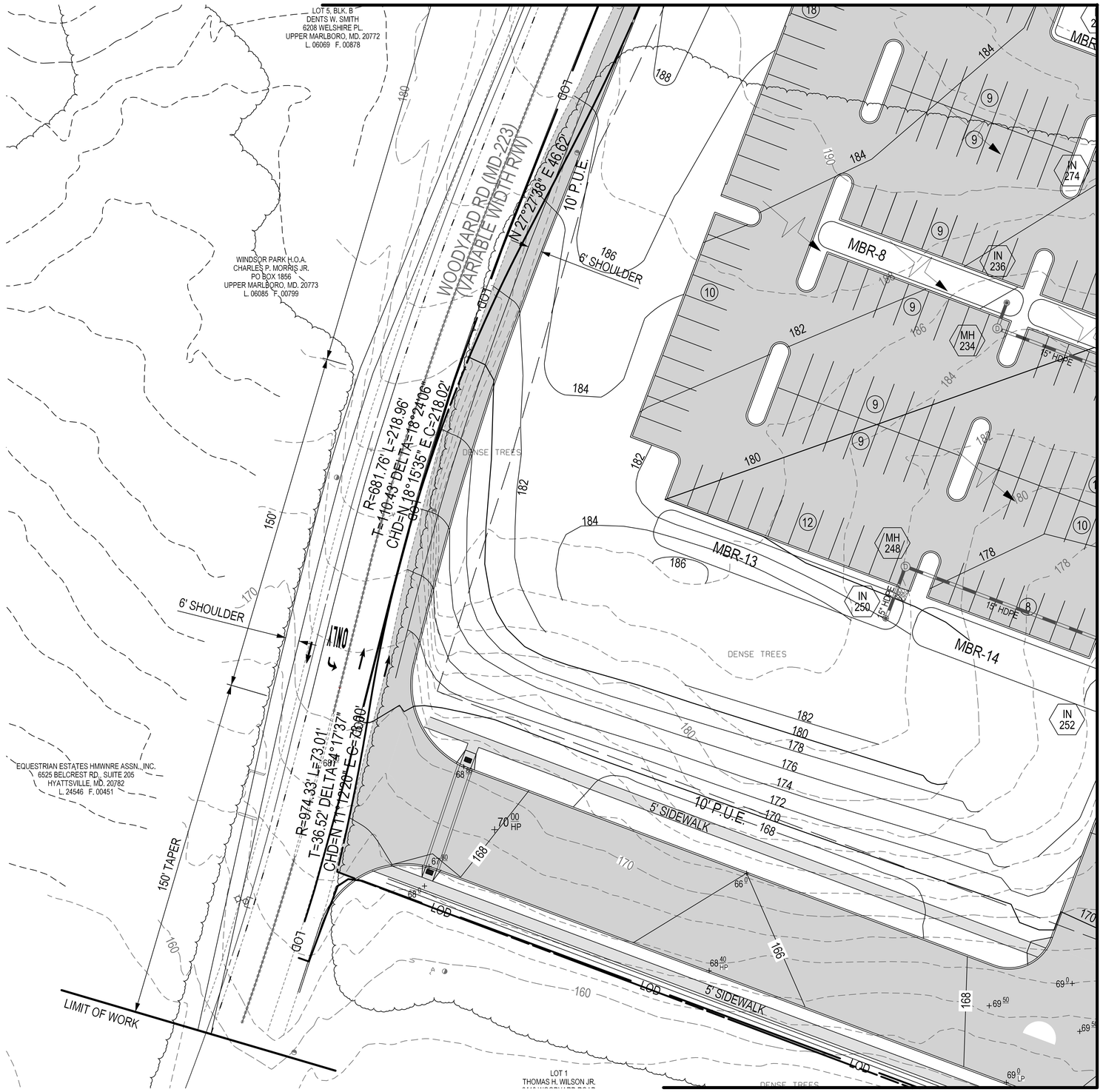
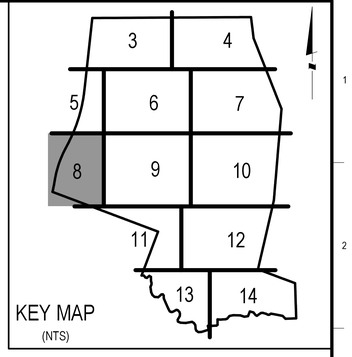


MATCH LINE SEE SHEET 9



SCALE: 1" = 20'

MATCH LINE SEE SHEET 11

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 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

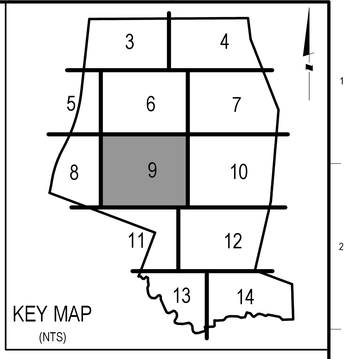
MATCH LINE SEE SHEET 6

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

ONE INCH
1" = 20'

C-41
SHEET 9 OF 15

PROJECT NO.
1404-06-00

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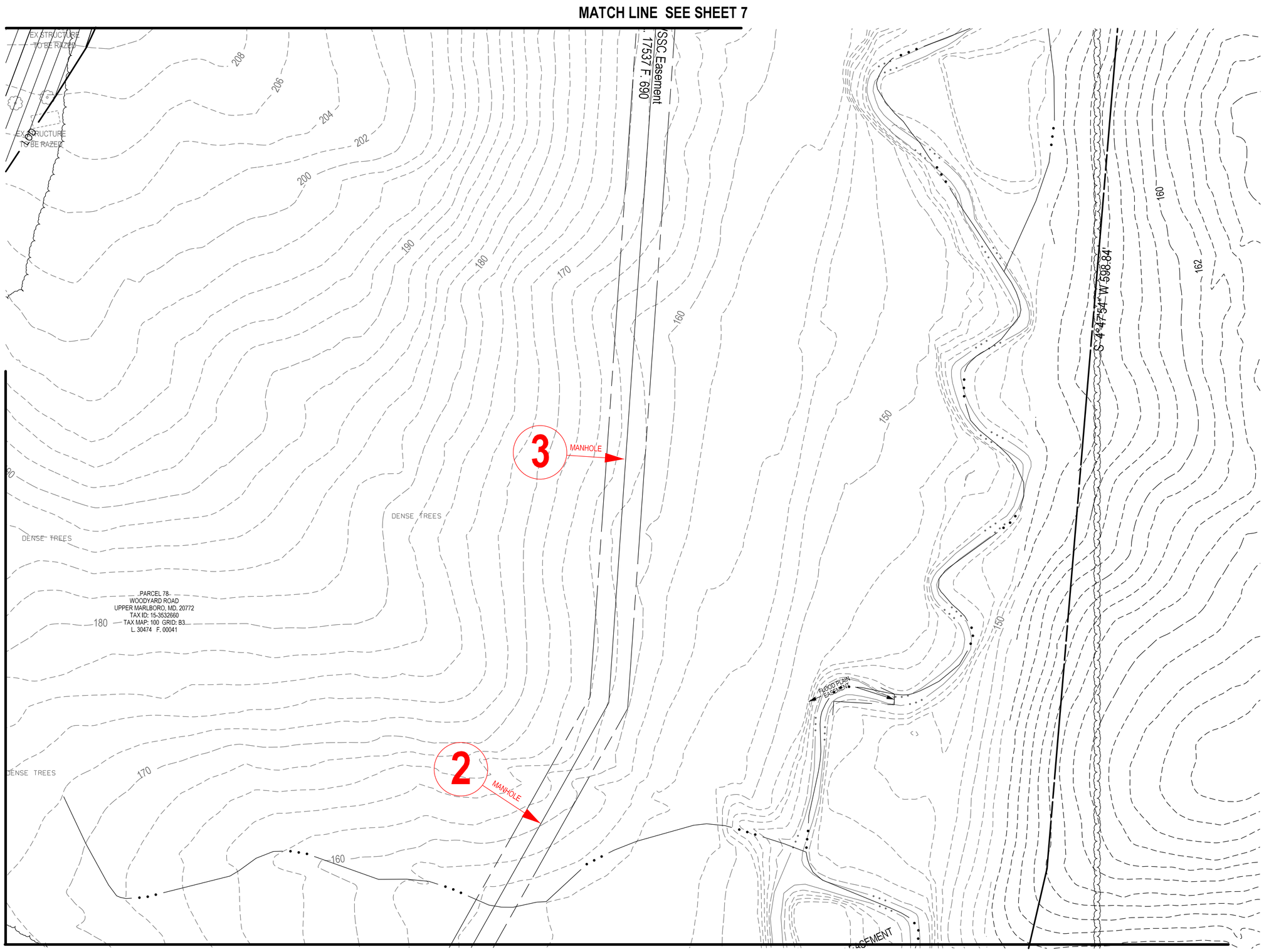

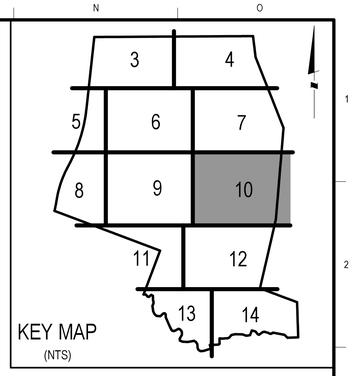

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GRAPHIC SCALE
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VERTICAL: NGVD 29	

GALILEE BAPTIST CHURCH
6100 WOODYARD AVE, UPPER MARLBORO

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

ONE INCH
1" = 20'

C-42
SHEET 10 OF 15

PROJECT NO.
1404-06-00

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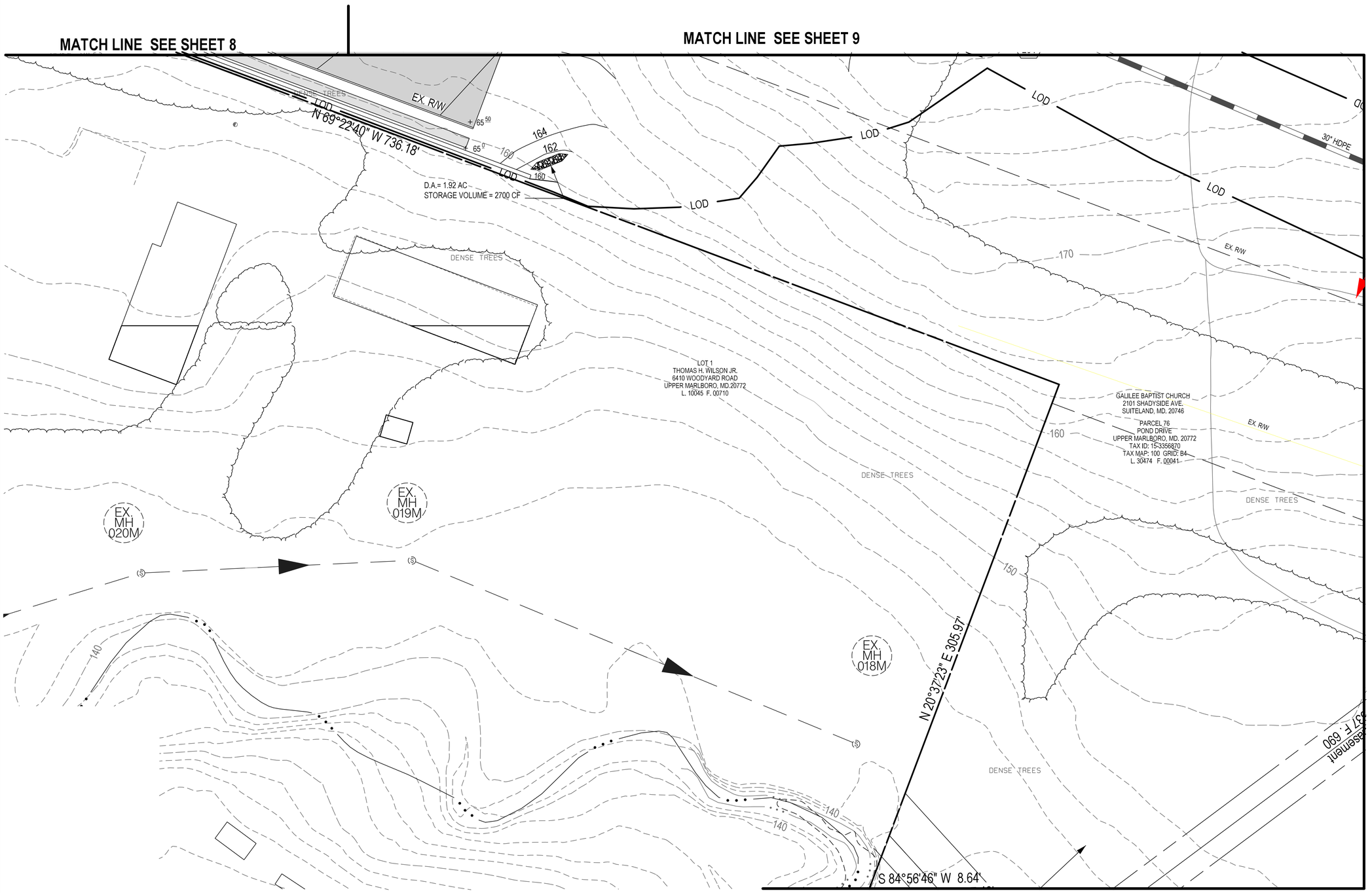
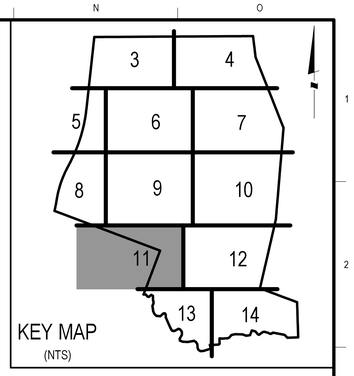
REFERENCE GRID A B C D E F G H I J K L M N O





SCALE: 1" =20'

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

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, 2019 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: CV TECHNICIAN: ZAH 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

RICKER BROTHERS REALTY CO.
117 RIVERVIEW RD.
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 11 OF 15

C-43

PROJECT NO.
1404-06-00

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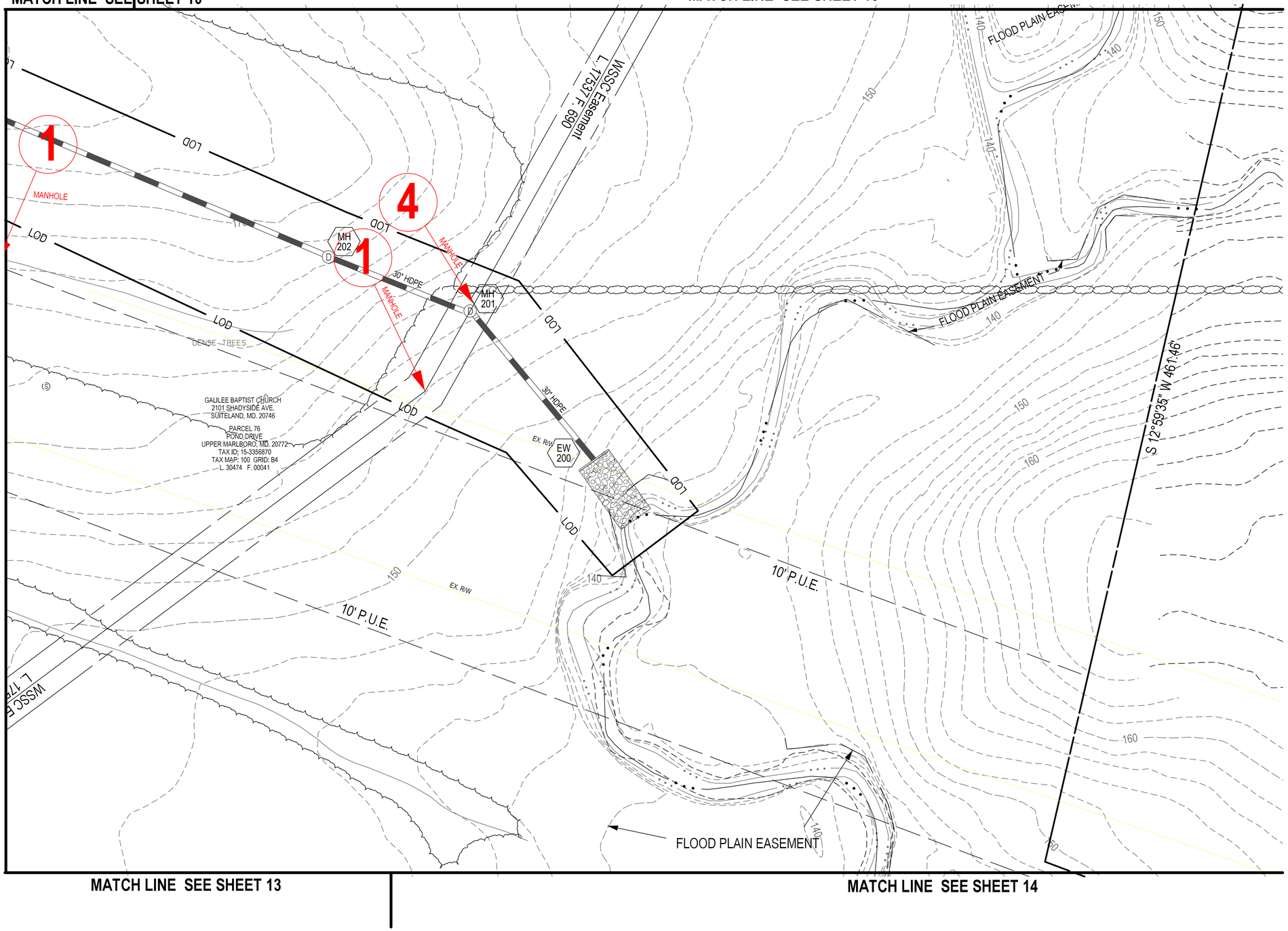

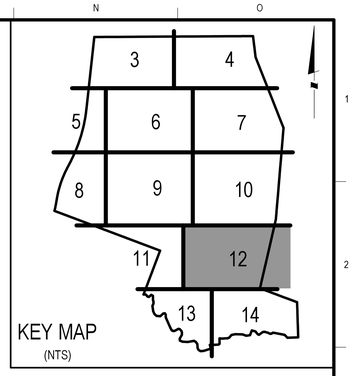

SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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NO.	REVISIONS	BY	DATE

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

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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

DSE PROJ.
1" = 20'

C-44
SHEET 12
OF 15

PROJECT NO.
1404-06-00

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REFERENCE GRID

MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 12

MATCH LINE SEE SHEET 14

FLOOD PLAIN EASEMENT

EX. MH 017M

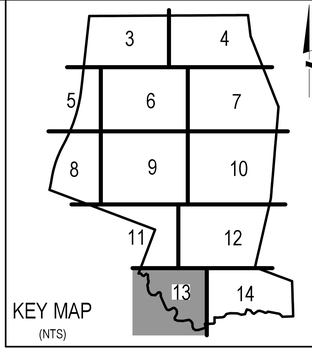
EX. MH 016M

EX. MH 015M

N 75°20'43" W 7.43'
N 38°04'26" W 15.29'
N 76°12'07" W 9.79'
N 56°46'27" W 12.42'
S 50°12'07" W 20.57'
N 0°56'37" W 27.62'
N 17°26'24" W 12.32'
N 0°00'00" E 8.89'
N 22°07'04" E 19.69'
N 9°03'47" W 35.11'
N 24°52'47" W 18.55'
N 47°40'57" W 18.20'
S 85°43'47" W 9.04'
N 37°21'07" W 9.32'
N 2°02'40" W 18.86'
N 84°39'39" W 24.60'
S 48°57'27" W 27.48'
N 23°37'27" W 14.22'
N 27°49'17" W 19.03'
S 81°06'43" W 9.94'
N 81°51'56" W 8.70'
N 42°32'39" W 16.60'
N 16°22'53" W 12.27'
N 67°46'32" W 11.37'
S 61°20'13" W 26.47'
N 28°38'05" E 14.75'
N 7°48'49" W 11.88'
N 66°49'49" W 18.62'
S 80°18'22" W 41.58'
N 59°29'25" W 14.55'
N 87°31'36" W 33.99'
N 32°50'13" W 16.03'
N 5°29'10" W 25.74'
N 22°41'19" W 12.76'
N 56°13'13" W 16.19'
S 15°35'06" E 17.17'
S 72°44'36" W 44.61'
S 85°04'26" W 20.61'
S 78°17'15" W
S 53°06'56" W 7.31'

DENSE

KEY MAP (NTS)



SCALE: 1" =20'

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

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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	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-45

SHEET 13
OF 15

PROJECT NO.
1404-06-00

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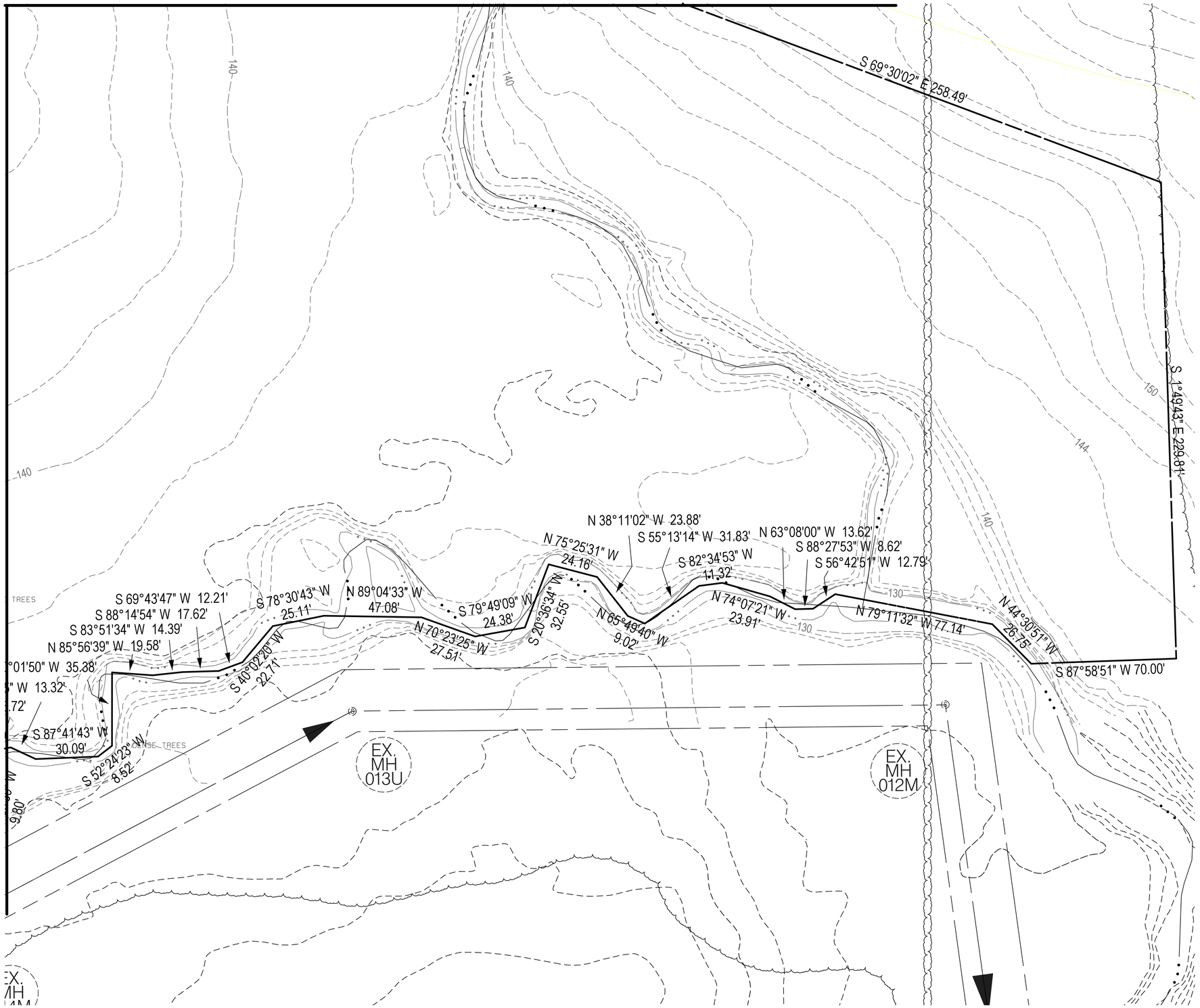
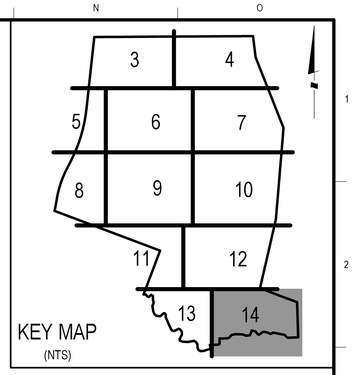
REFERENCE GRID: A B C D E F G H I J K L M N O

MATCH LINE SEE SHEET 12

MATCH LINE SEE SHEET 13





SCALE: 1" =20'

GRAPHIC SCALE
1" = 20'

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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'
C-46
SHEET 14 OF 15
PROJECT NO. 1404-06-00

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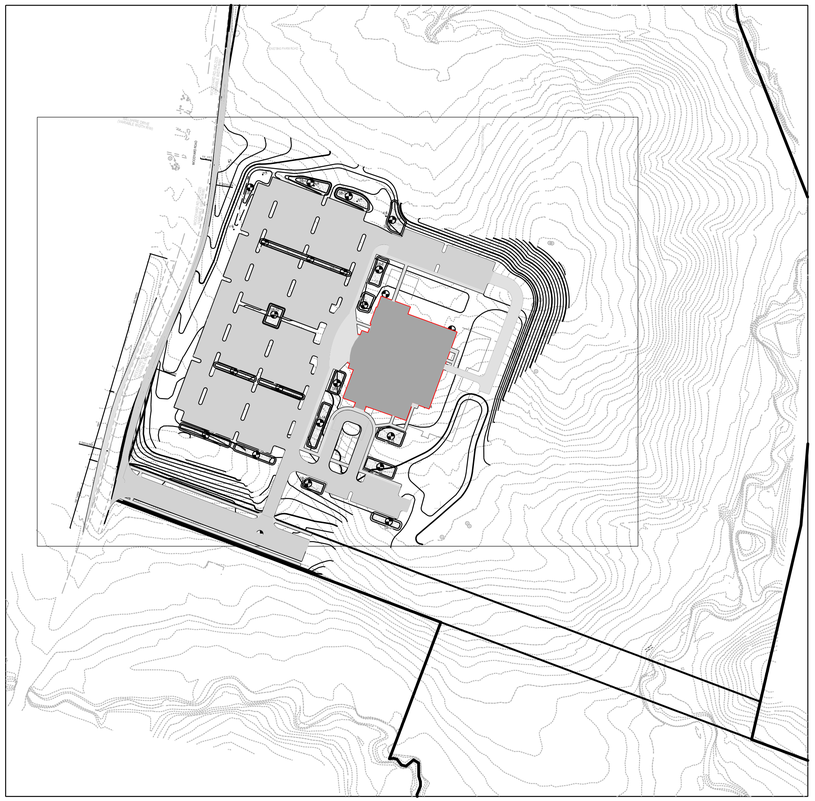
REFERENCE GRID: A B C D E F G H I J K L M N O

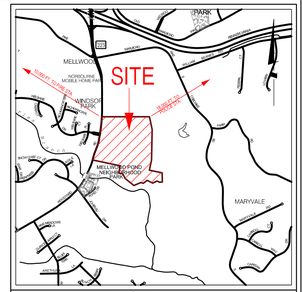
STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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



SCALE: 1" = 150'
NAD83/NGVD29

150 75 0 150 300



VICINITY MAP
SCALE: 1"=2000'

INDEX OF SHEETS

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GENERAL NOTES & LEGEND	3
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ESD PLAN VIEW	10-13
STORM DRAIN PROFILES	14-15
STORM DRAIN STRUCTURE & PIPE SCHEDULES	16
ESD DETAILS	17-18
ESD NOTES AND SPECIFICATIONS	19
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ESD LANDSCAPE PLAN VIEW	21-24
ESD LANDSCAPE DETAILS	25

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

ONE INCH
1" = 150'

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

C-47
SHEET 1 OF 21

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

PROJECT NO.
1404-06-00

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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
	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
POI A	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**	
	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
POI B	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

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

FINAL BMP SUMMARY

SOLTESZ, LLC
Engineering
Surveying
Planning
Environmental Sciences
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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.
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

	EXISTING	PROPOSED
BORING LOCATIONS		PG 10/08
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)	COMCAST CTV	COMCAST CTV
ELECTRIC (LINE, MANHOLE, POLE, VAULT/BOX)	E OH - E	UG - E OH - E
NATURAL GAS (LINE, MANHOLE, MARKER)	EX 6" NG	6" PNG
SEWER (LINE, MANHOLE)	EX 8" SAN	8"S
STORMDRAIN (LINE, INLETS, MANHOLE)	EX 15" RCP SD	15" RCP
TELEPHONE (LINE, MANHOLE, VAULT/BOX)	T OH -T	UG - T OH -T
WATER (LINE, HYDRANT, MANHOLE, METER, VALVE, WELL)	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

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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

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
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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-49
SHEET 3 OF 21
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav03.sht Scale= 1.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:38 PM

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. IN 111; EX. MH 225; IN 125; PD 150
- STRUCTURE NUMBERS
- TIME OF CONCENTRATION PATH
- IMPERVIOUS SURFACES
- CONTOUR (INDEX, INTERMEDIATE) — 100; 202; 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

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DRAINAGE AREA MAP

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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

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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	

1" = 40' (ONE INCH = 40')

C-50

SHEET 4 OF 21

PROJECT NO. 1404-06-00

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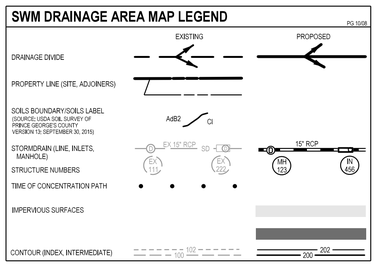
MATCHLINE - MATCH SHEET 4

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



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DRAINAGE AREA MAP

STORM DRAIN, PAVING, AND ESD PLAN

GALILEE BAPTIST CHURCH

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

ONE INCH = 1" = 40'

SHEET 5 OF 21

C-51

PROJECT NO. 1404-06-00

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NO.	REVISIONS	BY	DATE

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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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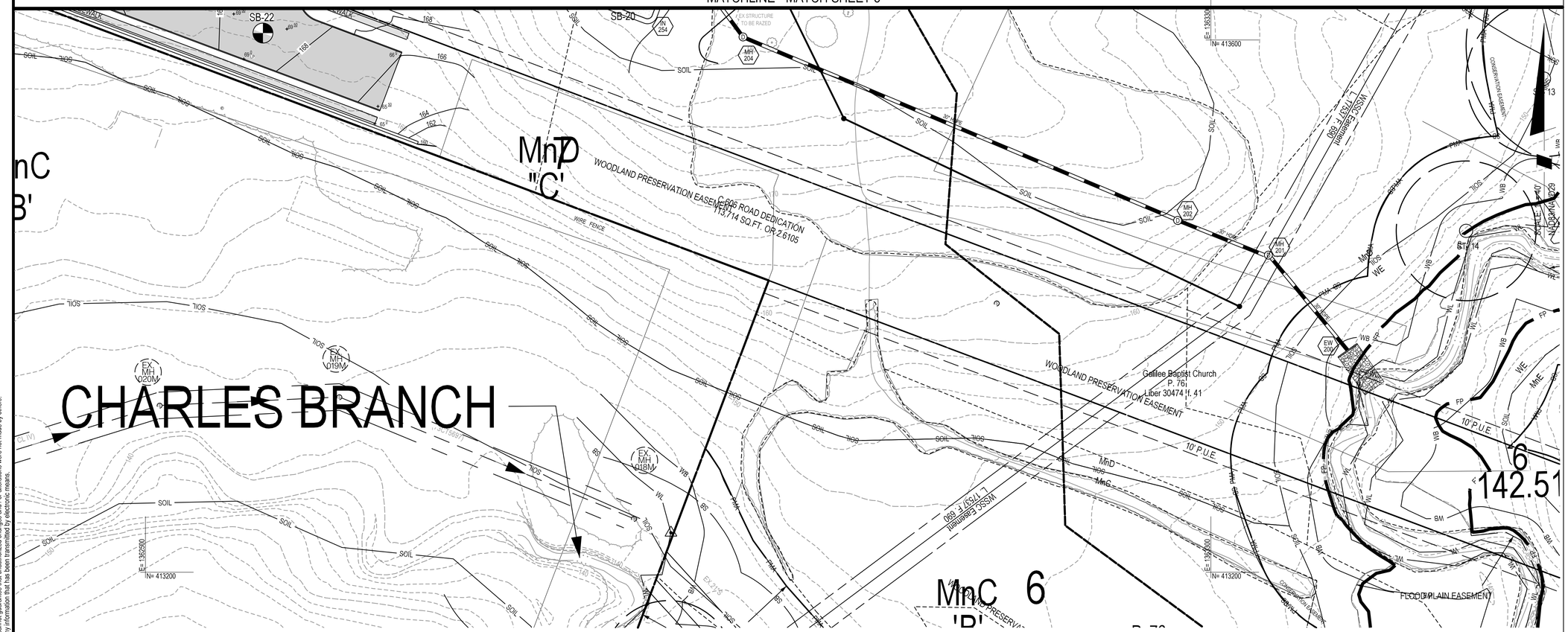
MATCHLINE - MATCH SHEET 5



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 15" RCP / SD	15" 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

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DRAINAGE AREA MAP

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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

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

ONE INCH

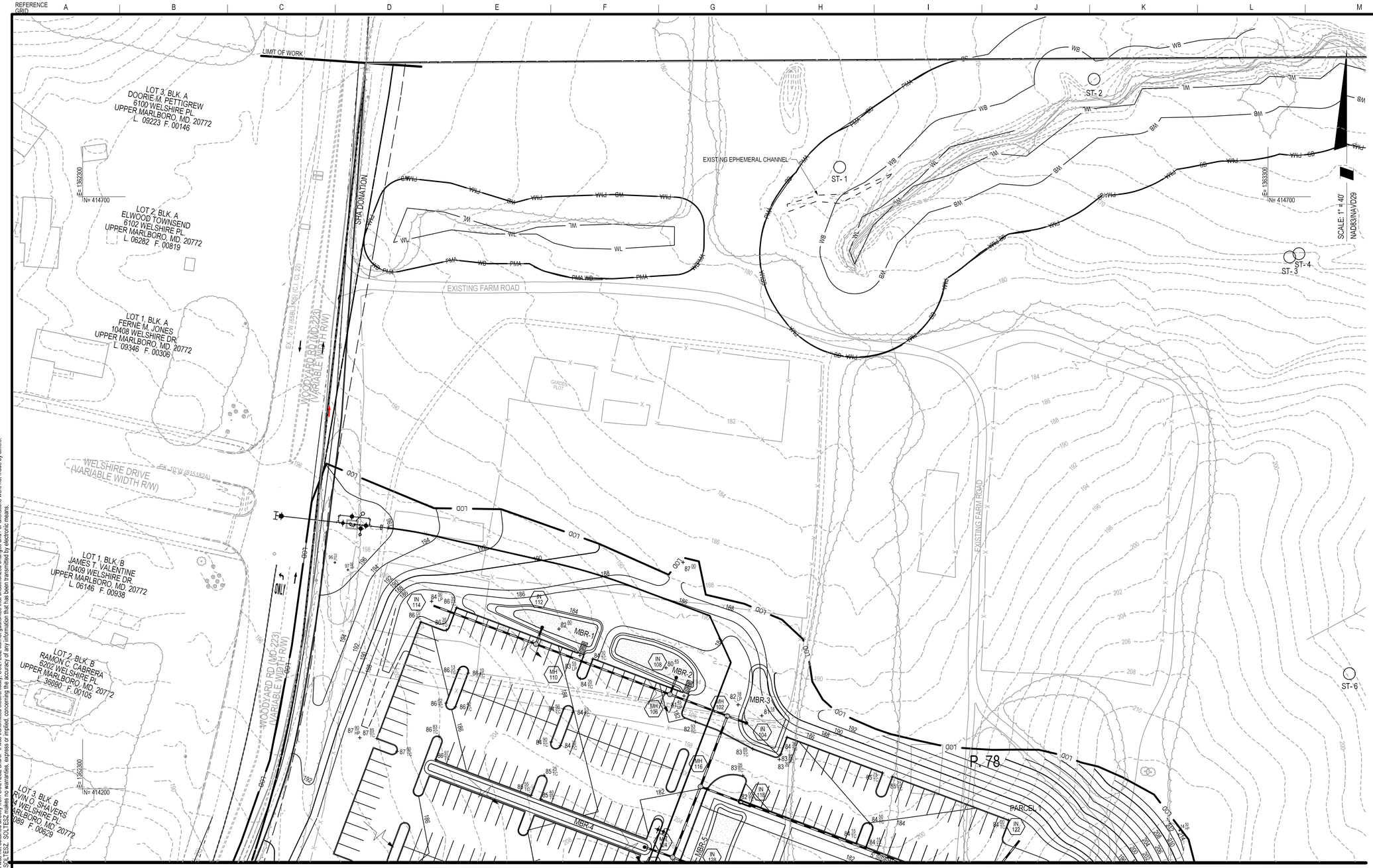
1" = 40'

SHEET 6 OF 21

PROJECT NO. 1404-06-00

C-52

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

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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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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

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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

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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

P:\14040600\ENGINEER\PAVSTORM\Pav08.sht Scale= 40.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:44 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

SCALE: 1" = 40'
NAD83/NAVD29

MATCHLINE- MATCH SHEET 09

40 20 0 40 80

DPIE # XXXXX-2018-00

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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	

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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

1" = 40'

SHEET 9 OF 21

C-55

PROJECT NO.
1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav09.sht Scale= 40.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:45 PM

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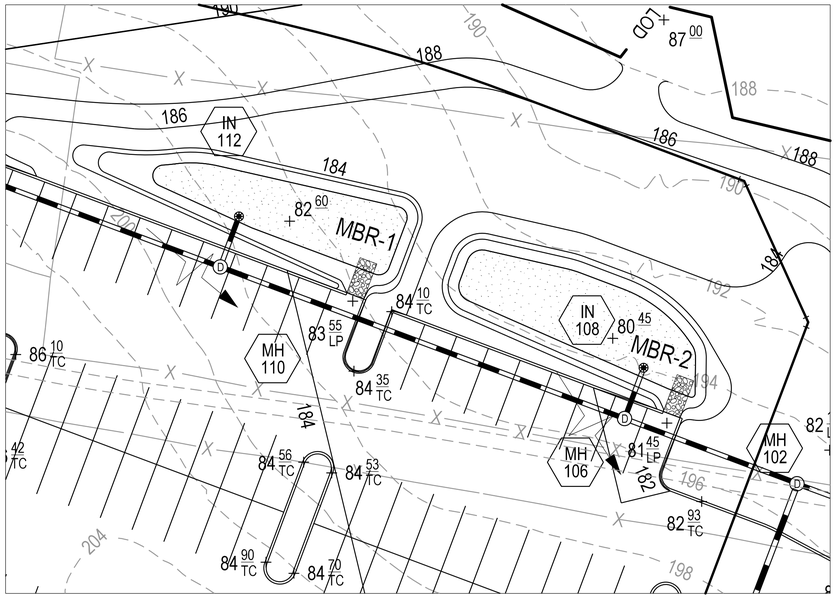

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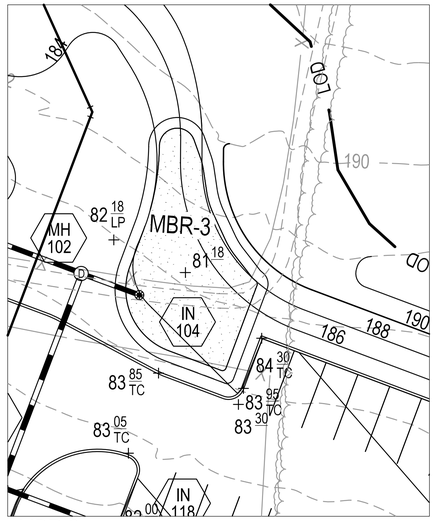
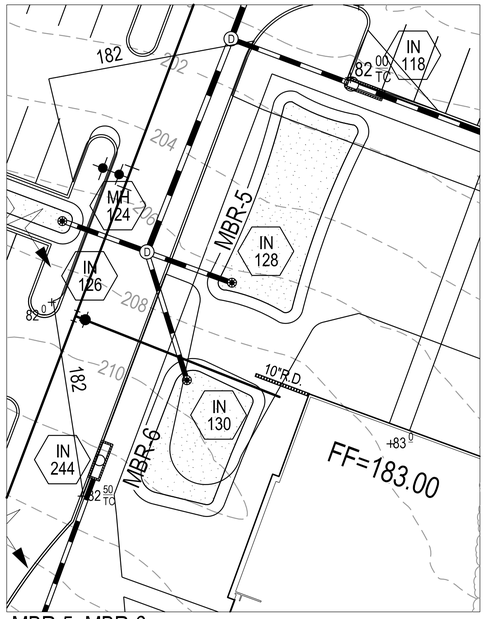
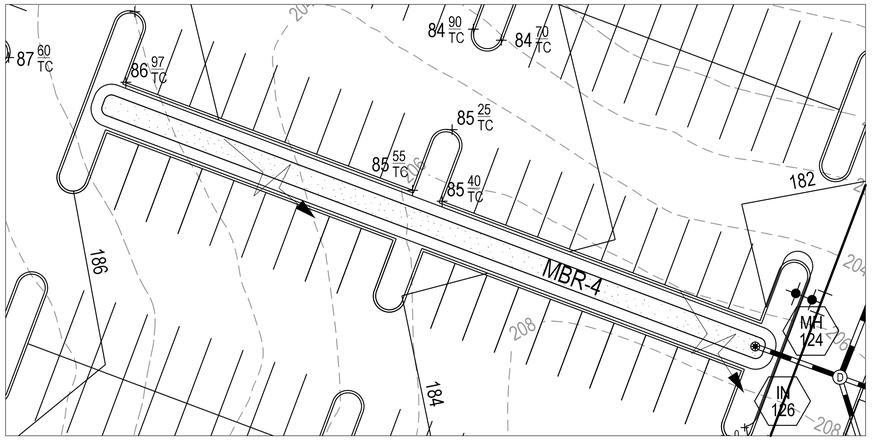


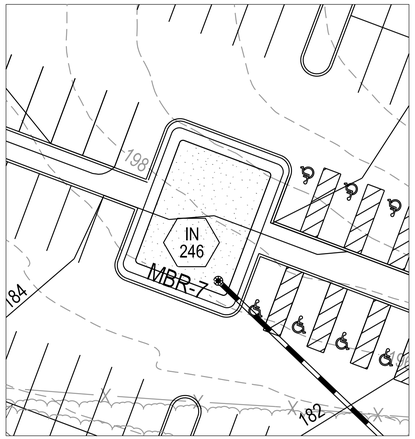
MBR-3



MBR-5, MBR-6



MBR-4



MBR-7

SCALE: 1" = 20'
NAD27/NAVD29

"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

20 10 0 20 40

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

ESD PLAN VIEW

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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: 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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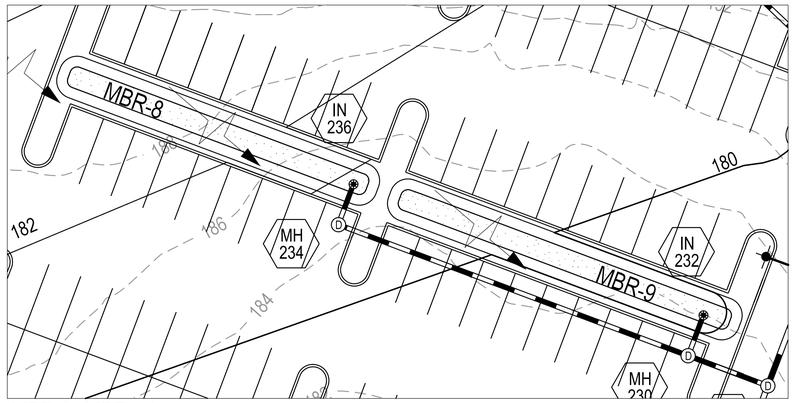
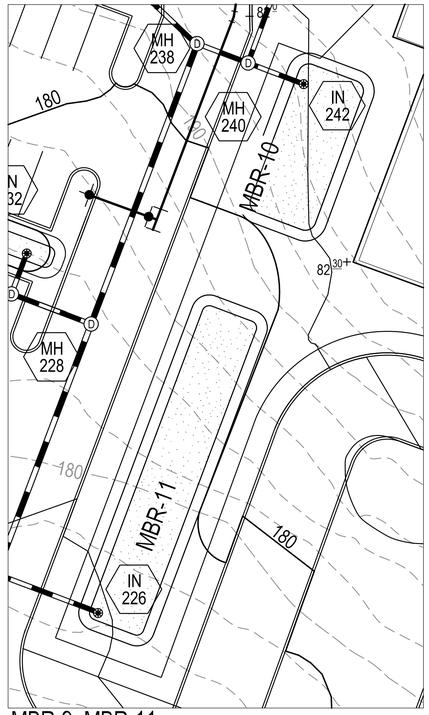


MBR-8, MBR-10



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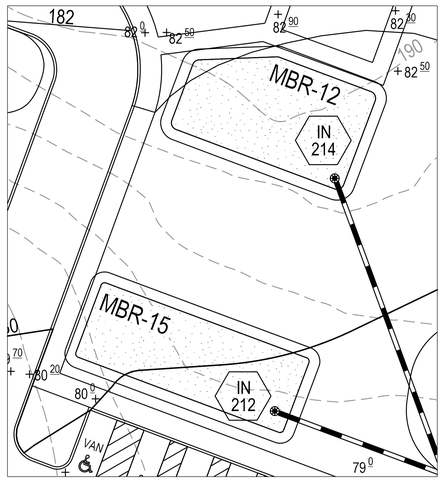
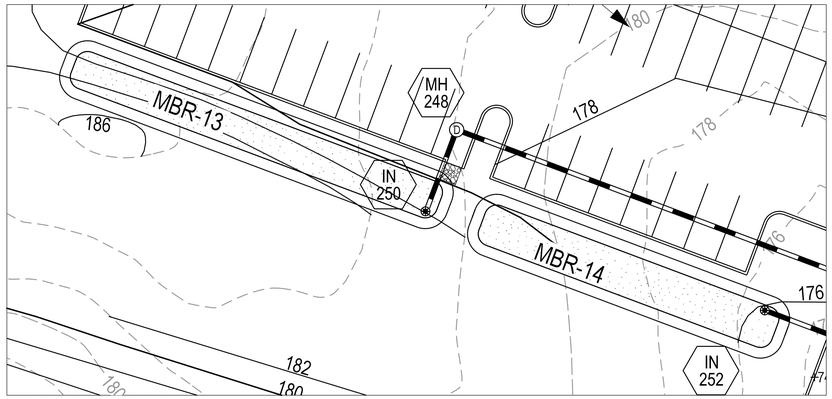
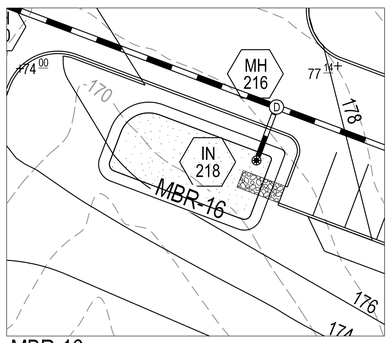


MBR-13, MBR-15

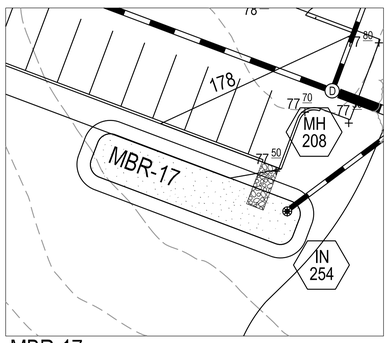
SCALE: 1" = 20'



MBR-12, MBR-14



MBR-16



MBR-17

20 10 0 20 40

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DPIE # XXXXX-2018-00

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ESD PLAN VIEW

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

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www.solteszco.com

NO.	REVISIONS	BY	DATE

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

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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

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50 25 0 50 100

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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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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" = 50'

SHEET 12 OF 21

PROJECT NO.
1404-06-00

C-58

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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1 2 3 4 5 6 7 8 9 10

BMP & ESD AS-BUILT CERTIFICATION

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50 25 0 50 100

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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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TAX MAP	ZONING CATEGORY:
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SITE DATUM	
HORIZONTAL: NAD83 VERTICAL: NGVD29	

ONE INCH
1" = 50'

SHEET 15 OF 21

C-59

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

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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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

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

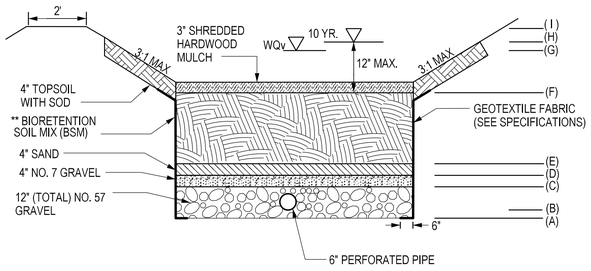
STORM DRAIN STRUCTURE AND PIPE SCHEDULES

STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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

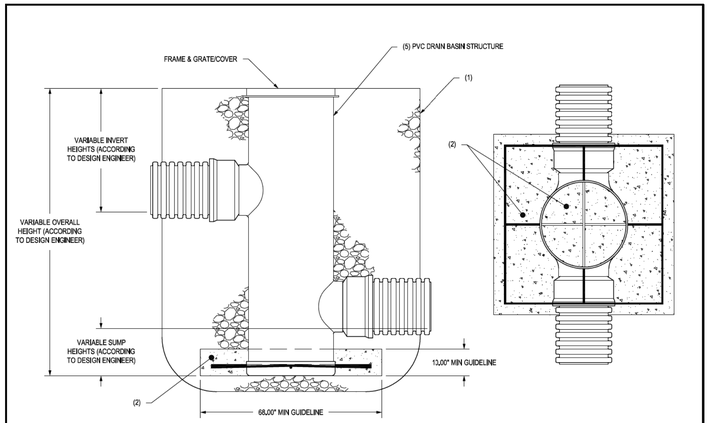
1" = N.T.S
C-60
SHEET 14
OF 21
PROJECT NO. 1404-06-00

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									



1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
2 - CONCRETE ANTI-FLOATATION FOOTING WITH REBAR REINFORCEMENT (APPROX. 3000 LBS PER CU YD).
3 - ACTUAL FOOTING DESIGN TO BE DETERMINED BY DESIGN ENGINEER.
4 - SEE DRAWING NO. 7001-110-144 FOR COMPLETE DRAIN BASIN DETAILS & SPECIFICATIONS.
5 - IF THE STRUCTURE IS ABOVE GRADE OR WILL HAVE PROLONGED EXPOSURE TO UV RAYS, THE EXPOSED SURFACES SHOULD BE COATED IN A LATEX BASED PAINT OR SIMILAR COATING (PROVIDED BY OTHERS) THAT WILL NOT DEGRADE THE PVC MATERIAL.

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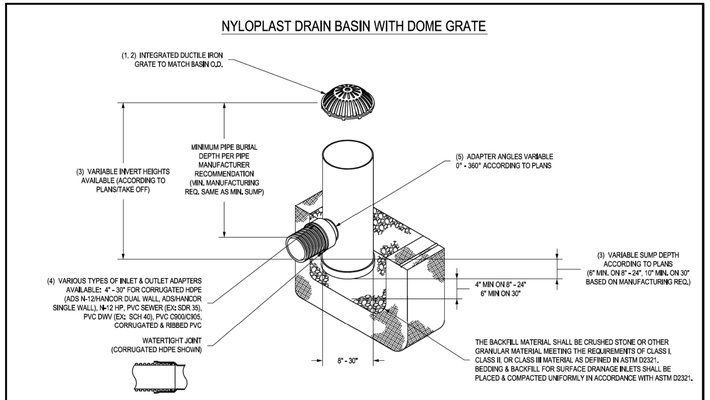
DRAWN BY	CJA	MATERIAL	
DATE	10-23-04		
REVISED BY	NWI	PROJECT NO./NAME	
DATE	03-16-16		
DWG SIZE	A	SCALE 1:25 SHEET 1 OF 1	

Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN ANTI-FLOATATION INSTALLATION
DWG NO. 7001-110-142 REV H

NYLOPLAST DRAIN BASIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP, SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-115-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (8"-24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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DRAWN BY	EBC	MATERIAL	
DATE	03-25-10		
REVISED BY	NWI	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	

Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-307 REV D

"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

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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	

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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

P:\14040600\ENGINEER\PAVSTORM\Pav15.sht Scale= 1.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:49 PM

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: _____

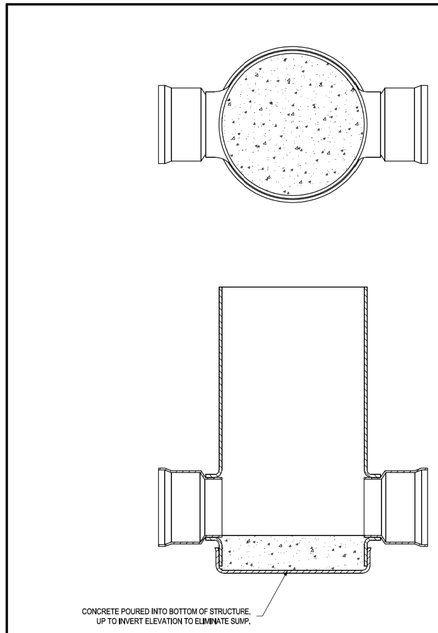
Field Engineer: _____ Permittee: _____

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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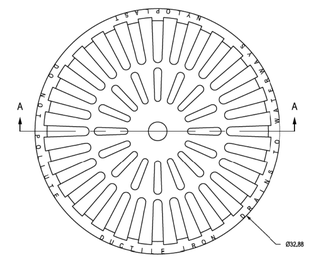

SECTION A-A

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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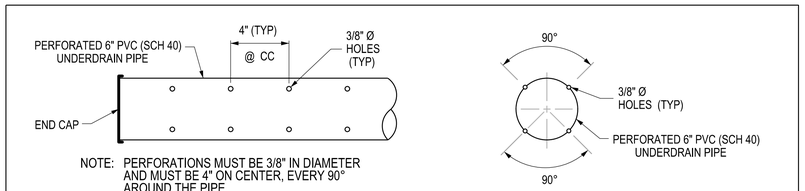
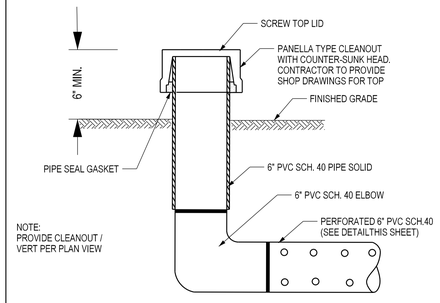


NOTE: PERFORATIONS MUST BE 3/8" IN DIAMETER AND MUST BE 4" ON CENTER, EVERY 90° AROUND THE PIPE.

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

NOT TO SCALE



CLEANOUT / VENT DETAIL
TYPICAL MICRO-BIORETENTION SECTION

NOT TO SCALE

DPIE # XXXXX-2018-00

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SOLTESZ, LLC

Engineering
Surveying
Planning
Environmental Sciences
4300 Forbes Boulevard, Suite 230
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P. 301.794.7555 F. 301.794.7656
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NO.	REVISIONS	BY	DATE

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

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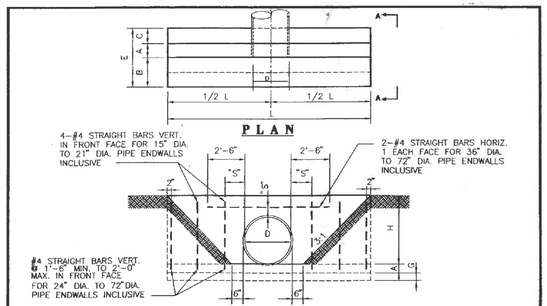
STORM DRAIN, PAVING, AND ESD PLAN
GALILEE BAPTIST CHURCH

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

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

P:\14040600\ENGINEER\PAVSTORM\Pav16.sht Scale= 1.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:52:55 PM



OPENING D INCHES	AREA SQ. FT.	DIMENSIONS A	B	C	E	F	G	H	SLOPE L	SLOPE L	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

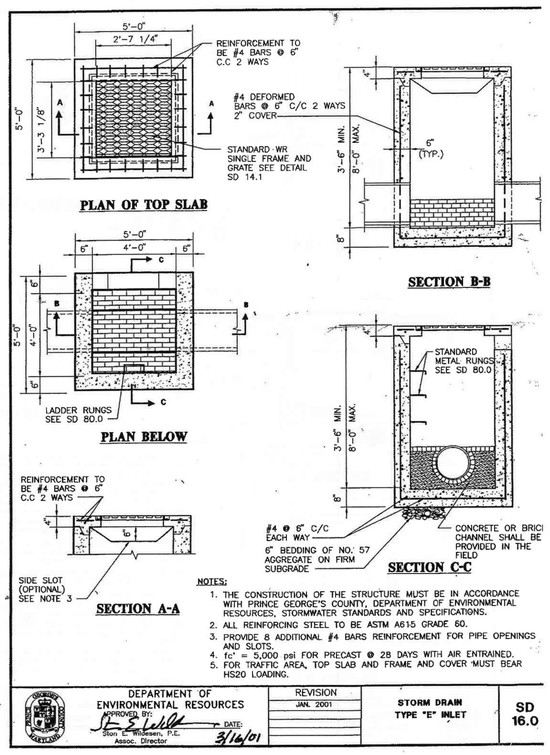
NOTES:
1. UNLESS OTHERWISE SPECIFIED, THE SIDE SLOPE 2:1 MAXIMUM TO BOTTOM OF THE OUTFALL CHANNEL. KEEP 6' AWAY FROM STORM DRAIN PIPE.
2. fc' = 5,000 psi @ 28 DAYS WITH AIR ENTRAINED FOR PRECAST CONCRETE. fc' = 4,000 psi WITH AIR ENTRAINED FOR CAST IN PLACE.
3. PROVIDE 6" THICK OF NO. 57 AGGREGATE BEDDING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



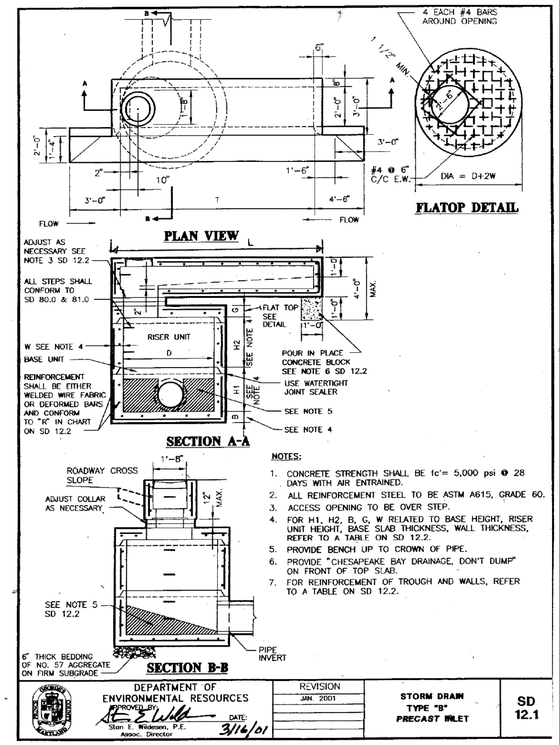
NOTES:
1. THE CONSTRUCTION OF THE STRUCTURE MUST BE IN ACCORDANCE WITH PRINCE GEORGE'S COUNTY, DEPARTMENT OF ENVIRONMENTAL RESOURCES, STORMWATER STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60.
3. PROVIDE 8 ADDITIONAL #4 BARS REINFORCEMENT FOR PIPE OPENINGS AND SLOTS.
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

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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:
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ESD DETAILS

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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.
C-63
SHEET 17 OF 21
PROJECT NO. 1404-06-00

P:\14040600\ENGINEER\PAVSTORM\Pav17.sht Scale= 1.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 4:53:00 PM

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.

Appendix B.4. Construction Specifications for Environmental Site Design Practices

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.

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ESD NOTES AND SPECIFICATIONS

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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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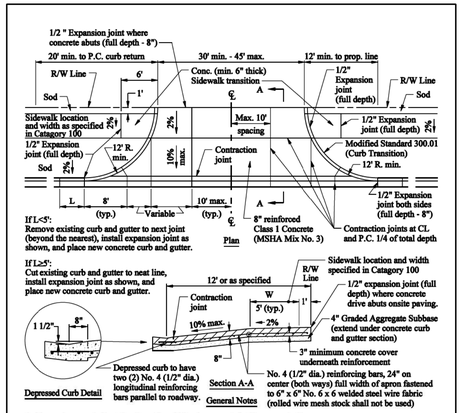


General Notes

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.

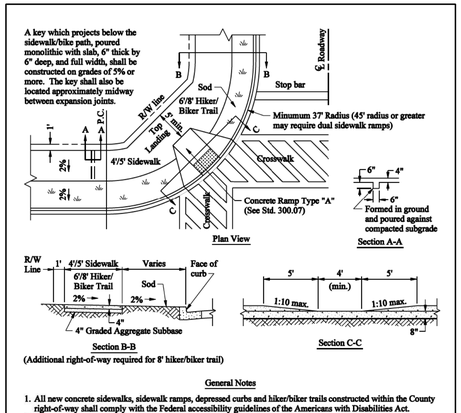
APPROVED:

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.

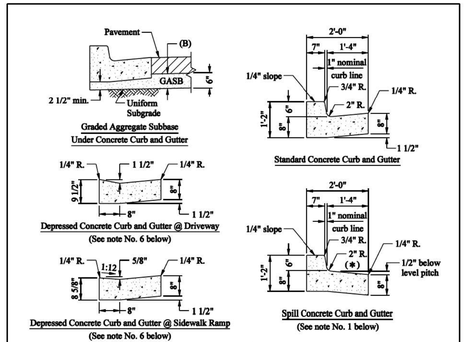
APPROVED:

DIRECTOR — DATE

REVISION DATE:	APPROVED BY:

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.

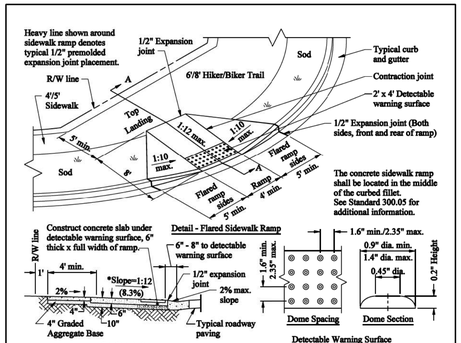
APPROVED:

DIRECTOR — DATE

REVISION DATE:	APPROVED BY:

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
Prince George's County, MD

Concrete Curb and Gutter — STD. 300.01



General Notes

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.

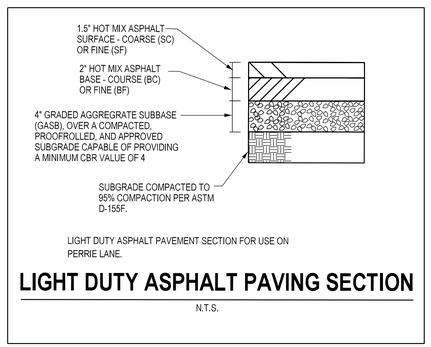
APPROVED:

DIRECTOR — DATE

REVISION DATE:	APPROVED BY:

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
Prince George's County, MD

Concrete Sidewalk Ramp Type "A" — STD. 300.07

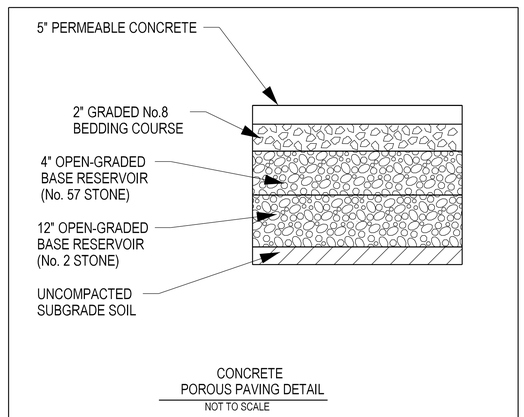


LIGHT DUTY ASPHALT PAVEMENT SECTION FOR USE ON PERRIE LANE.

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

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

SITE 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	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.
SHEET 20 OF 21
C-65
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

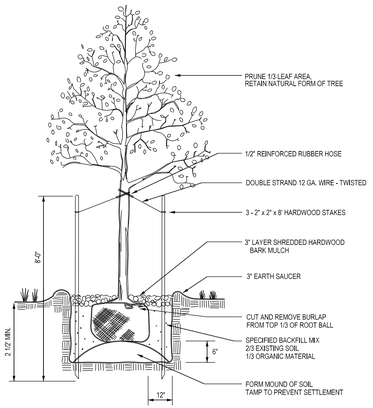
1. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A HEALTHY AND VIGOROUS CONDITION AT THE BEGINNING OF THE SECOND GROWING SEASON FOLLOWING ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

H. TREE PRESERVATION

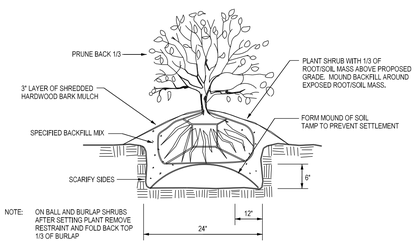
1. SNOW FENCING SHALL BE ERECTED AROUND ALL AREAS WHERE EXISTING VEGETATION IS TO BE PRESERVED.

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.

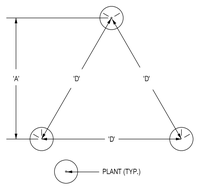
3. FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.



1 **TREE PLANTING DETAIL**
NOT TO SCALE

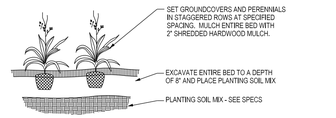


2 **BALL AND BURLAP SHRUB PLANTING DETAIL**
NOT TO SCALE



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
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: _____

ESD LANDSCAPE DETAILS

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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: 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

1" = N.T.S.
SHEET 21 OF 21
PROJECT NO. 1404-06-00
C-66

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.

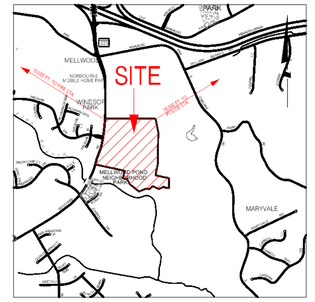
BLOCKING NOTES

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

(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

I HEREBY CERTIFY THAT THE AS-BUILT INFORMATION AS SHOWN IN RED OR GREEN HEREIN IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND HAS BEEN ESTABLISHED BY A FIELD RUN SURVEY USING ACCEPTABLE SURVEYING METHODS BY MYSELF AND/OR SOMEONE UNDER MY DIRECT SUPERVISION ON_____. ALL AS-BUILT DATA IS SHOWN IN BOXES.

EMAIL ADDRESS: _____

LICENSE NO.:_____ EXPIRATION DATE:_____

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

THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC APPROVAL

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.

NAME: BENJAMIN T. MOSIER, P.E.

EMAIL ADDRESS: BMOSIER@SOLTESZCO.COM

LICENSE NO.: 40806 EXPIRATION DATE: 06-20-2025

STATE OF MARYLAND · BENJAMIN T. MOSIER · NO. 40806 · PROFESSIONAL ENGINEER

SOLTESZ, LLC
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P.301.794.7555 F.301.794.7656
Engineering // Surveying // Planning // Environmental Sciences
www.solteszco.com Registration # 49452

CONTACT: BENJAMIN T. MOSIER
EMAIL: BMOSIER@SOLTESZCO.COM

APPLICANT
NAME: GALILEE BAPTIST CHURCH
ADDRESS: 2101 SHADYSIDE AVE.
SUITLAND, MD 20746

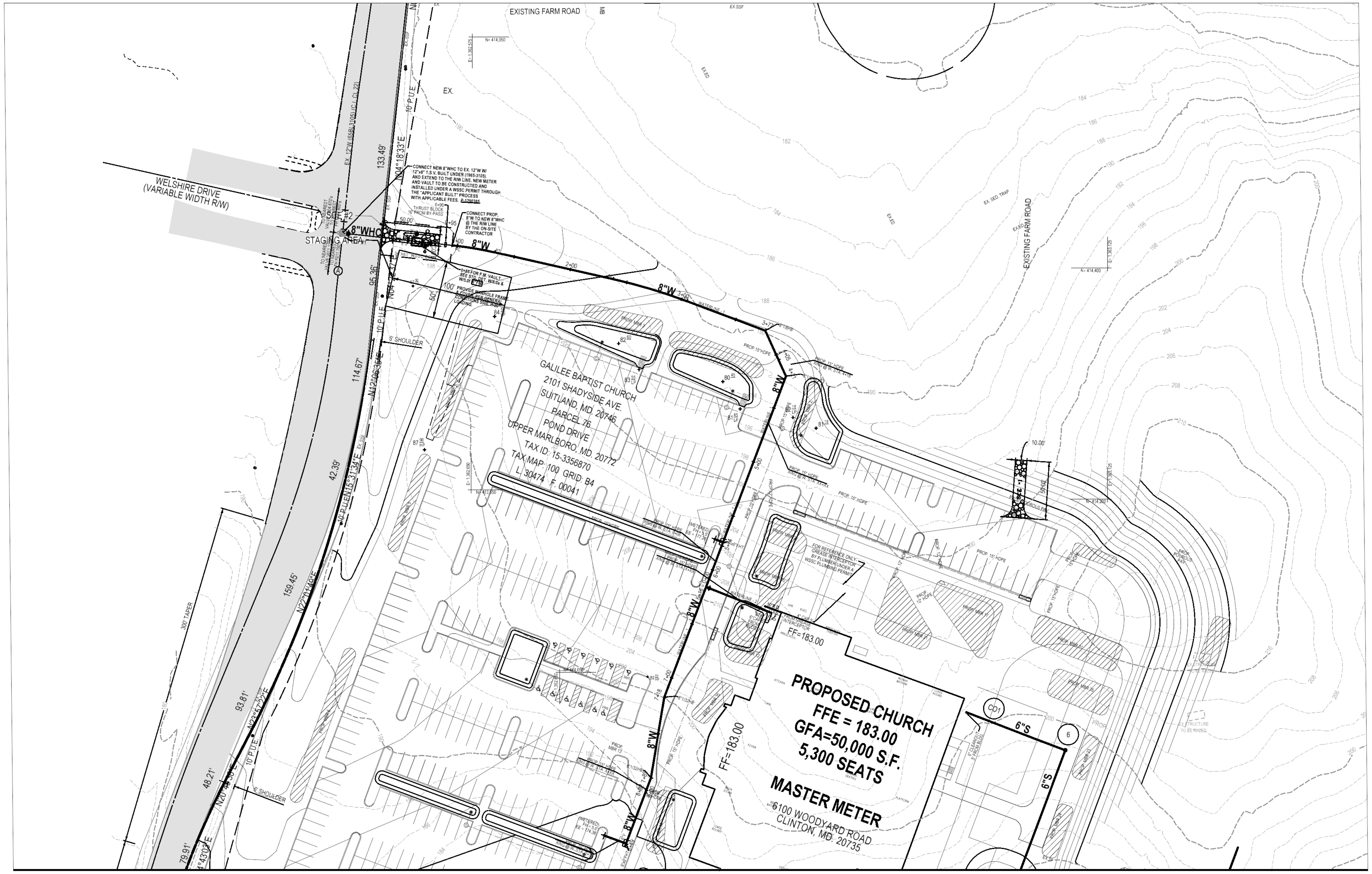
CONTACT: REV. DR. LLOYD T. MCGRIFF
PHONE: 301 420 5013
EMAIL: LLOYDT123@AOL.COM

C-67

200' SHEET NO.	208SE09	No. 1
	209SE09	of 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021

P:\14040600\ENGINEER\WATSEW\WAS_OWS_SHT_01.sht Scale= 200.0000 ft / in. User= CMcGee PLTdrv= PDF_Grey_150.pltcfg Pentbl= TEXT_SUB.tbl 2/2/2024 5:04:45 PM



MATCH LINE A-A

SCALE 1" : SCALE
NAD 83/91
NGVD 1929

ENGINEER'S/SURVEYOR'S AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT INFORMATION AS SHOWN IN RED OR GREEN HEREIN IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND HAS BEEN ESTABLISHED BY A FIELD RUN SURVEY USING ACCEPTABLE SURVEYING METHODS BY MYSELF AND/OR SOMEONE UNDER MY DIRECT SUPERVISION ON ______________. ALL AS-BUILT DATA IS SHOWN IN BOXES.

EMAIL ADDRESS: ________________________________

LICENSE NO.:___________EXPIRATION DATE:___________
Engineer's/Surveyor's As-Built Certification not required for Minor Site Utility plans (MSU).

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"

APPROVAL	DATE	REVISIONS

THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC APPROVAL

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BENJAMIN T. MOSIER, P.E.

EMAIL ADDRESS: BMOSIER@SOLTESZCO.COM

LICENSE NO.: 40806 EXPIRATION DATE: 06-20-2025

STATE OF MARYLAND
BENJAMIN T. MOSIER
NO. 40806
PROFESSIONAL ENGINEER

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www.solteszco.com Registration # 49452

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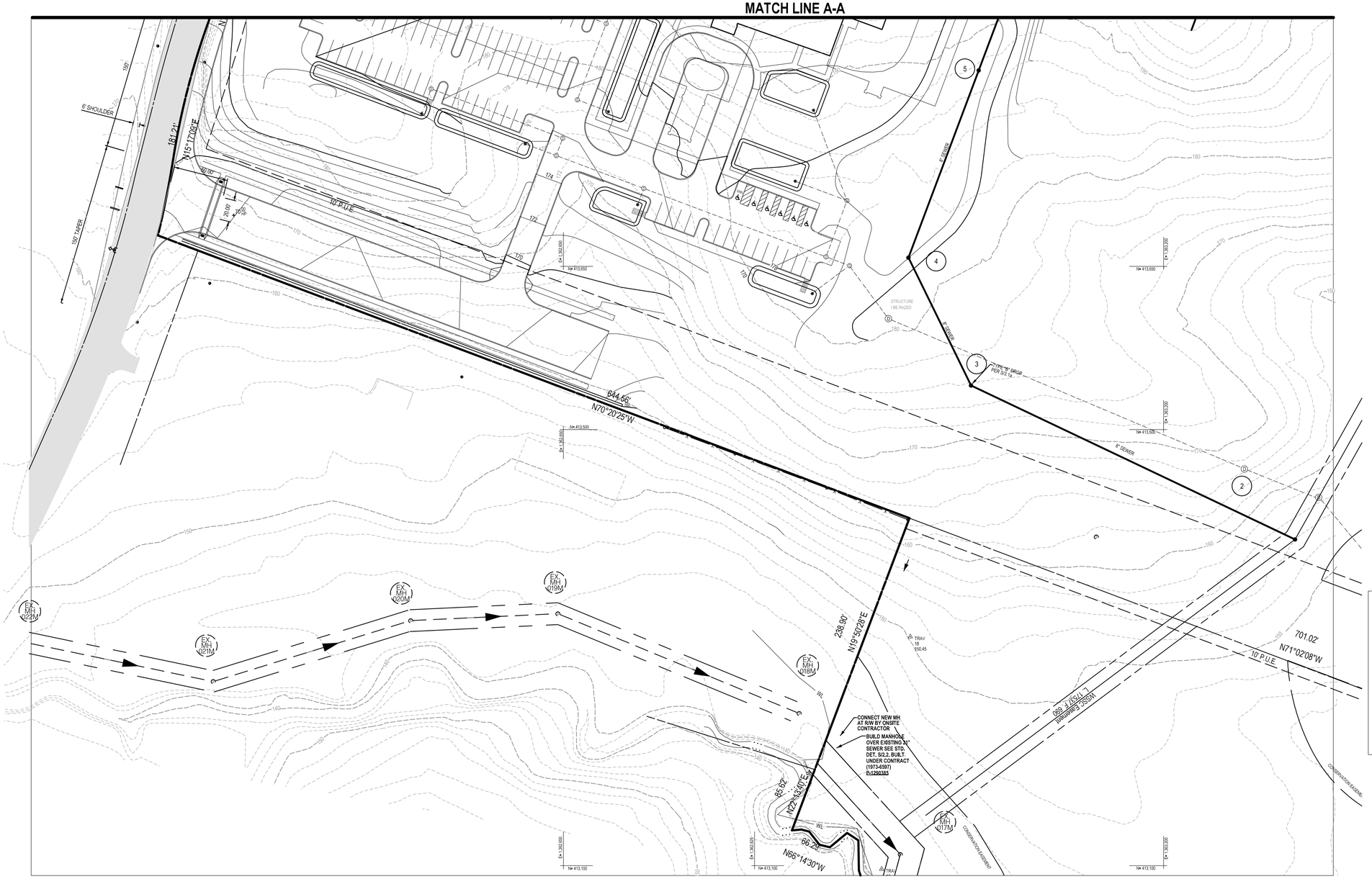
EMAIL: BMOSIER@SOLTESZ.COM

APPLICANT:
NAME: GALILEE BAPTIST CHURCH
ADDRESS: 2101 SHADYSIDE AVE.
SUITELAND, MD 20746

PHONE: 301 420 5013
CONTACT: REV. DR. LLOYD T. MCGRIFF
EMAIL: APPLICANT EMAIL ADDRESS

C-68
200'S 208SE09
NO 2
OF 5

TEMPLATE LAYOUT CURRENT as of: 03/15/2021



SCALE 1" : SCALE
NAD 83/91
NGVD 1929

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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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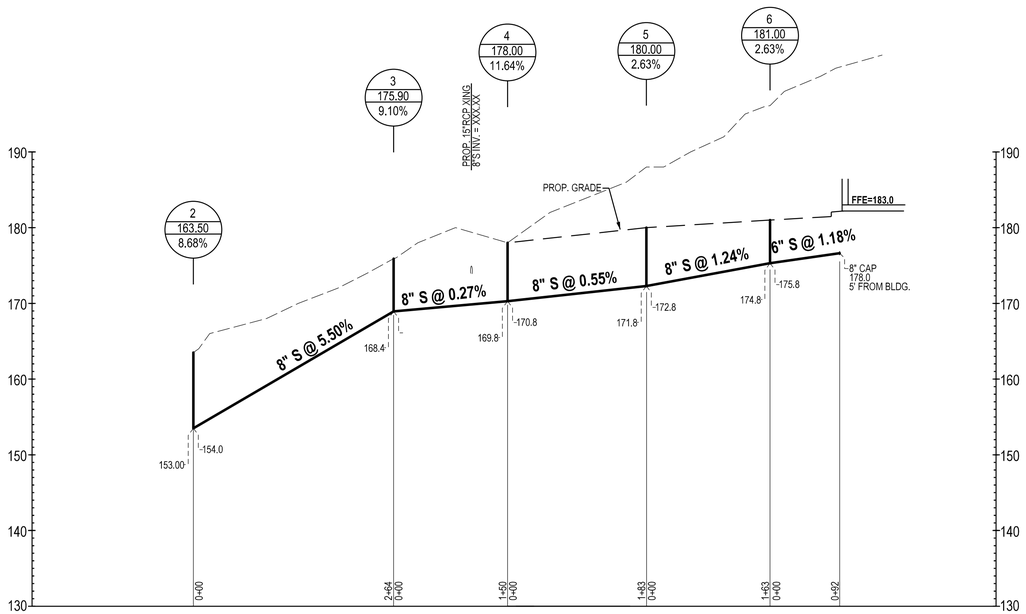
SCALE 1": SCALE
NAD 83/91
NGVD 1929

8" SEWER



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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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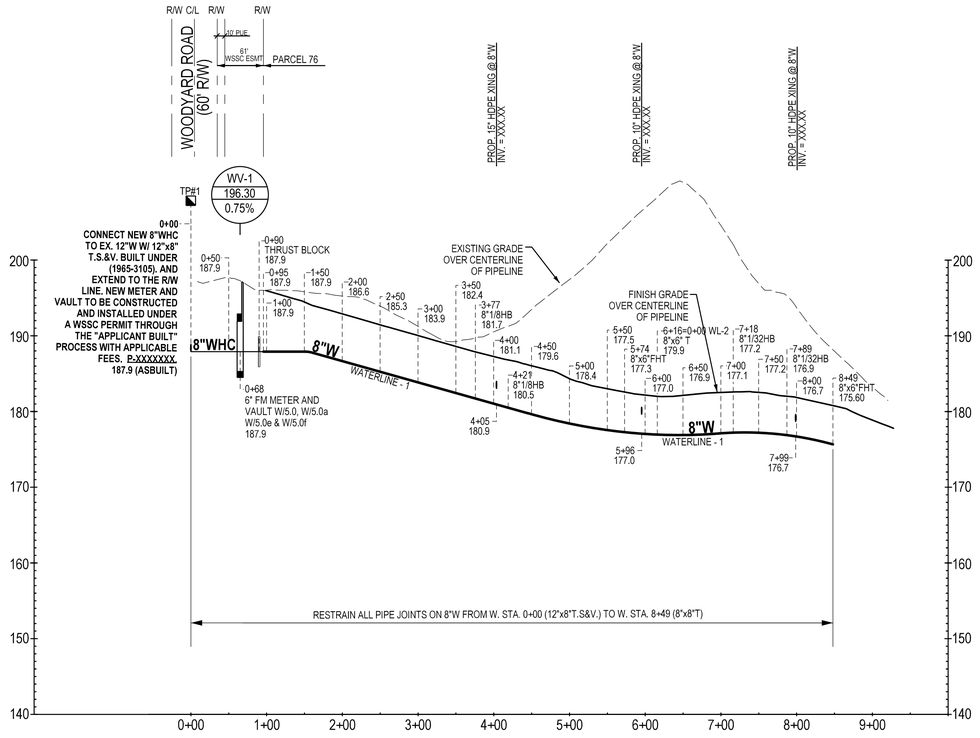
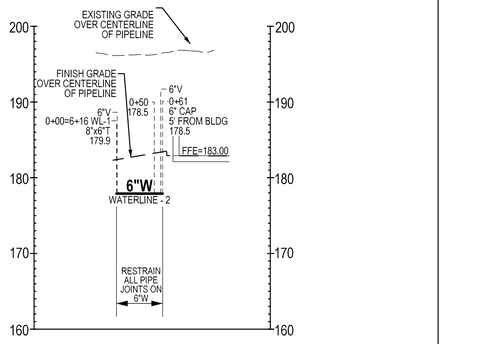
WATERLINE - 1



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:\14040600\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