CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
DESIGN AND CONSTRUCTION DIVISION

CONTRACT NO. PRJ001888

FOREST PARK LIBRARY ADDITION AND RENOVATION

3023 GARRISON BLVD.
BALTIMORE, MD 21216

FOR
THE MAYOR AND CITY COUNCIL
BRANDON M. SCOTT, MAYOR

FOREST PARK LIBRARY
ADDITION AND RENOVATION
CONTRACT NO. PRJ001888

REVISIONS		
NO.	DATE	DESCRIPTION
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PROFESSIONAL CERTIFICATION

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ENOCH PRATT FREE LIBRARY

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08/29/2025

TITLE SHEET

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ENOCH PRATT FREE LIBRARY - FOREST PARK BRANCH LIBARY

3023 Garrison Blvd, Baltimore, MD 21216

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Grand total: 179

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AUGUST 29, 2025

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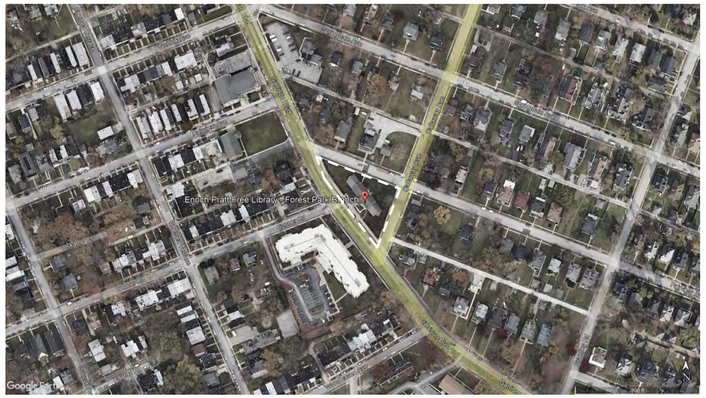
LOCATION MAP



SYMBOL LEGEND - CODE DATA

- ONE (1) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **U419**
- TWO (2) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **###**
- PATH OF EGRESS
- COMMON PATH OF TRAVEL
- EGRESS EXIT
- MARKS BEGINNING & END OF A PATH OF TRAVEL SEGMENT

SYMBOL LEGEND - SHEET

NORTH ARROW

TRUE NORTH — PROJECT NORTH

ROOM INDICATION

Room name
101
ROOM NAME
ROOM NUMBER

DOOR SYMBOL

101A

WINDOW OR BORROWED LIGHT SYMBOL

1

SECTION INDICATION

1 A101 — A101
SECTION NUMBER
SHEET WHERE SHOWN

WALL — BUILDING

ELEVATION INDICATION

N — A200 — EXTERIOR

N — W A200 E — S — MULTIPLE EXTERIOR

F2 — A201 — INTERIOR

A1 — A4 A201 A2 — A3 — MULTIPLE INTERIOR

DETAIL INDICATION

AREA DETAILED
1 A101
DETAIL NUMBER
SHEET WHERE SHOWN

REVISION INDICATION

1
REVISION NUMBER

1A
PARTITION TYPE SYMBOL

A
LINETYPE SYMBOLS

1
NEW COLUMN GRID

CENTER LINE/ ELEVATION LINE

WORK ABOVE, BEYOND OR TO BE REMOVED

DOOR DESIGNATION

NEW DOOR

EXISTING DOOR

STARTING POINT

STARTING POINT

GENERAL DIMENSIONING

O'-O" — FACE OF SURFACE INDICATOR

NOTE: DIMENSIONS ARE TAKEN FROM/TO FINISH SURFACE, UNLESS OTHERWISE NOTES.

O'-O" ±

NOTE: THE ± INDICATES A DIMENSION THAT CAN VARY. (NOTIFY THE ARCHITECT OF ANY CHANGE IN THAT DIMENSION IF IT IS GREATER THAN 1")

O'-O" VIF

NOTE: VERIFY IN FIELD (VIF) ARE SUPPLIED TO THE ARCHITECT BY OTHERS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. (SEE "GENERAL CONTRACTOR RESPONSIBILITIES WITH RESPECT TO EXISTING CONDITION NOTES")

GENERAL NOTES

1 DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION WITH THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2 PROVIDE BLOCKING FOR SUPPORT OF WALL ATTACHMENTS INCLUDING, BUT NOT LIMITED, TO WALL ACCESSORIES (HANDRAILS, BUMPERS, GUARDS, ETC), TOILET ACCESSORIES (GRAB BARS, DIAPER CHANGING STATIONS, ETC), BASE AND WALL CABINETS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL REQUIREMENTS FOR ATTACHMENTS.

3 DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CABINETRY. REFER TO GENERAL WOODWORK NOTES FOR ADDITIONAL INFORMATION.

4 ALL WORK CONSIDERED NEW, UNLESS OTHERWISE NOTED.

5 SEE DETAILS 1, 2 &3 /A8.15 FOR METAL TILE TRIM TYPICAL FOR ALL RESTROOMS.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATE
B.O.	BOTTOM OF
BD	BOARD
BLK'G	BLOCKING
BM	BEAM
CFMF	COLD FORMED METAL FRAMING
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR DIMENSION
CMU	CONCRETE MASONRY UNIT
COL(S)	COLUMN(S)
CONC	CONCRETE
CONTR	CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
DBL	DOUBLE
DET	DETAIL
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
EA	EACH
ELEC	ELECTRICAL
ELEV/ EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
EXP	EXPOSED
EXP JT	EXPANSION JOINT
FE	FIRE EXTINGUISHER (WALL MOUNTED)
FEC	FIRE EXTINGUISHER CABINET (RECESSED)
FIN	FINISH(ED)
FL	FLOOR
FOB	FACE OF BLOCK
FOG	FACE OF GLASS
FOM	FACE OF MULLION
FOS	FACE OF STUD
FT	FEET
FV	FIELD VERIFY
GB	GLASS BLOCK
GL	GLASS
GYP BD/ GWB	GYPSUM BOARD
HGT/ HT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HR	HOUR
ID	INSIDE DIMENSION
INSUL	INSULATION
JST BRG	JOIST BEARING
LP	LOW POINT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MLD'G	MOULDING
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIMENSION
OPN'G	OPENING
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PT	PAINTED
R	RISER
RD	ROOF DRAIN
REF	REFER TO
REFL CLG	REFLECTED CEILING
REINF	REINFORCED
RES	RESILIENT FLOORING
RFG	ROOFING
RG	RETURN GRILLE
RO	ROUGH OPENING
SC	SEALED CONCRETE
SCHED	SCHEDULE
SECT	SECTION
SG	SUPPLY GRILLE
SHT NO	SHEET NUMBER
SIM	SIMILAR
STL FR	STEEL FRAME
STRUCT	STRUCTURAL
SUSP CLG	SUSPENDED CEILING
T	TREAD
T.O./ T	TOP OF
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VIN	VINYL
VNR	VENEER
W/	WITH
WD	WOOD
WGT/ WT	WEIGHT
WIN	WINDOW
WP	WORK POINT
WWF	WELDED WIRE FABRIC

CODE INFORMATION

PROJECT DESCRIPTION

The Enoch Pratt Free Library's Forest Park Branch, opened in 1910 with additions and renovations in 1954 and 1987, is an approximately 8,221 GSF building with a 909 GSF addition as part of this project. The existing building and the addition is a mixed use of A-3 (Assembly), B (Business), S-1 (Moderate-hazard Storage) and S-2 (Low-Hazard Storage) occupancies with the A-3 being the controlling use. The new construction is construction classification type IIB Unprotected. The City of Baltimore has designatd the Library as a "Cooling Station" for the community.

The project's scope includes:

a. Demolition of interior fixtures and finishes.
b. Hazardous material abatement.
c. New addition including restrooms and vertical transportation.
d. Reconfiguration of the Library's, new mechanical, plumbing and electrical systems.
e. Replacement of existing exterior wall fenestrations.
f. Repair and restoration of portions of the exterior façade and roof.
g. New and/or revised utilities.
h. New exterior landscaping and hardscape.

1

BUILDING, FIRE, AND RELATED CODES OF BALTIMORE CITY 2024 EDITION

Maryland Building Performance Standards / May 2023
International Building Code / 2021
National Electrical Code / 2020
International Fuel Gas Code / 2021
International Mechanical Code / 2021
International Plumbing Code / 2021
International Property Maintenance Code / 2021
International Fire Code / 2021
International Energy Conservation Code / 2021
International Residential Code, 1- and 2- Family Dwellings / 2021
International Green Construction Code / 2021
International Swimming Pool and Spa Code / 2021

BUILDING CODE 2018 OF MARYLAND (IBC 2018)

302 CLASSIFICATION
* INDICATES MOST RESTRICTIVE
NON-SEPARATED MIXED-USE: A-3; ASSEMBLY- LIBRARY*
B; BUSINESS
S-1; MODERATE-HAZARD STORAGE
S-2; LOW-HAZARD STORAGE

504 & 506 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
(SPRINKLERED, TYPE VB CONSTRUCTION)

	STORIES	SQFT	HEIGHT	# STORIES
*A-3:	3	24,000	60'	2
B:	4	36,000	60'	3
S-1:	3	36,000	60'	2
S-2:	4	64,000	60'	3

*A-3 CONTROLS HEIGHT, AREA AND FIRE PROTECTION REQUIREMENTS FOR ENTIRE BUILDING

PROVIDED

STORIES	SQFT	HEIGHT
2	8,221 SF EXISTING 909 SF NEW	32'-8"

506 BUILDING AREA MODIFICATIONS
NON APPLICABLE. PROJECT IS WITHIN HEIGHT AND AREA REQUIREMENTS WITHOUT MODIFICATION.

601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
EXISTING BUILDING:
CONSTRUCTION CLASSIFICATION: VB, UNPROTECTED 1

		REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME		0 hr.	0 hr.
BEARING WALLS-	EXTERIOR	0 hr.	0 hr.
	INTERIOR	0 hr.	0 hr.
NONBEARING-	EXTERIOR	TABLE 602	0 hr.
	INTERIOR	0 hr.	0 hr.
FLOOR CONSTRUCTION		0 hr.	0 hr.
ROOF CONSTRUCTION		0 hr.	0 hr.

ADDITION:
CONSTRUCTION CLASSIFICATION: VB, UNPROTECTED

		REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME		0 hr.	0 hr.
BEARING WALLS-	EXTERIOR	0 hr.	0 hr.
	INTERIOR	0 hr.	0 hr.
NONBEARING-	EXTERIOR	TABLE 602	0 hr.
	INTERIOR	0 hr.	0 hr.
FLOOR CONSTRUCTION		0 hr.	0 hr.
ROOF CONSTRUCTION		0 hr.	0 hr.

602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

REQUIRED	PROVIDED
X <5 1 hr.	
5≤ X <10 1 hr.	
10≤ X 0 hr.	0 hr.

705.8 MAXIMUM AREA OF EXTERIOR WALL OPENING BASED ON FIRE SEPERATION DISTANCE

30 OR GREATER	NO LIMIT

707 FIRE BARRIERS
707.3.1 SHAFT ENCLOSURES: 1 HR. (708.4: LESS THAN FOUR STORIES)
707.3.2 INTERIOR EXIT STAIRWAY AND RAMP CONSTRUCTION: 1 HR. (1022.1: LESS THAN FOUR STORIES)
707.3.3 ENCLOSURES FOR EXIT ACCESS STAIRWAY: 1 HR. (1022.1: LESS THAN FOUR STORIES)
707.3.4 EXIT PASSAGEWAY: 1 HR. (1023.3)
707.3.7 INCIDENTAL USES: TBL 508.2.5

803 WALL AND CEILING FINISHES
803.13 INTERIOR WALL AND CEILING FINISH MATERIALS:
A-3: A; EXITS
A[a]; CORRIDORS
C; ROOMS AND ENCLOSED SPACES
B: A; EXITS
B; CORRIDORS
C; ROOMS AND ENCLOSED SPACES
S: B; EXITS
B; CORRIDORS
C; ROOMS AND ENCLOSED SPACES
d. LOBBY AREAS IN GROUP A-3 OCCUPANCIES SHALL BE NOT LESS THAN CLASS B

903 AUTOMATIC SPRINKLER SYSTEMS
903.2.1.3 GROUP A-3
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13

907 FIRE ALARM AND DETECTION SYSTEMS
BUILDING WILL BE EQUIPPED THROUGHOUT WITH AN APPROVED FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 907.2 AND NFPA 72.

CODE INFORMATION

1004 OCCUPANT LOADS

ASSEMBLY (CONCENTRATED, CHAIRS ONLY):	7 NSF
ASSEMBLY (UNCONCENTRATED, TABLES/CHAIRS):	15 NSF
BUSINESS:	150 GSF
LIBRARY/READING:	50 NSF
LIBRARY/STACKS:	100 GSF
MECHANICAL:	300 GSF
STORAGE:	300 GSF

TOTAL OCCUPANCY : 222

1005 EGRESS WIDTH
STAIRWAYS: 0.3 INCH PER OCCUPANT
OTHER: 0.2 INCHES PER OCCUPANT

1006 NUMBER OF EXITS AND CONTINUITY
1006.2.1 Common Path of Travel:
A-3= MAX OCCUPANTS=49 75' max.
B= MAX OCCUPANTS=49 OL≤30=100' OL>30=75'
S= MAX OCCUPANTS=29 OL≤30=100' OL>30=75'
1006.3.1 Occupant Load:

1-500	2 exits per story
501-1,000	3
1,000+	4

1009 ACCESSIBLE MEANS OF EGRESS
1009.1 ACCESSIBLE MEANS OF EGRESS

REQUIRED	PROVIDED
2	2

NOTES: -2 WAY COMMUNICATION PROVIDED AT ELEVATOR LANDINGS
-STAIR WIDTH >48"

1017 EXIT ACCESS TRAVEL DISTANCE
A, B, S-1: 250' (SPRINKLERS)

1020 CORRIDORS
A, B, S-1: 0 hr. (with sprinklers)

2902 PLUMBING FIXTURE REQUIREMENTS (OBC, TABLE 2902.1) (403 MINIMUN PLUMBING FACILITIES IPC2018M, TABLE 403.1)

	REQUIRED		PROVIDED	
WATER CLOSETS	MALE	FEMALE		
A-3 LIBRARIES	1 PER 125	1 PER 65	.82 M + 1.57 F	
B BUSINESS	1 PER 25<50		.44	
S STORAGE	1 PER 100		.07	
			TOTAL 2.9	4
LAVATORIES				
A-3 LIBRARIES	1 PER 200		1.02	
B BUSINESS	1 PER 40<50		.28	
S STORAGE	1 PER 100		.07	
			1.37	3
DRINKING FOUNTAINS				
A-3 LIBRARIES	1 PER 500		.41	
B BUSINESS	1 PER 100		.11	
S STORAGE	1 PER 1,000		.01	
			.53	2*

*DUAL HEIGHT ADA COMPLIANT DRINKING FOUNTAIN

OTHER			
SERVICE SINK	1	1	1

PLUMBING FIXTURE NOTES:

SINGLE-USER TOILET FACILITY AND BATHING ROOM FIXTURE:
THE PLUMBING FIXTURES LOCATED IN SINGLE-USER TOILET FACILITIES AND BATHING ROOMS, INCLUDING FAMILY OR ASSISTED USE TOILET AND BATHING ROOMS THAT ARE REQUIRED BY SECTION SECTION 1109.2.1 OF THE INTERNATIONAL BUILDING CODE, SHALL CONTRIBUTE TOWARD THE TOTAL NUMBER OF REQUIRED PLUMBING FIXTURES FOR A BUILDING OR TENANT SPACE. SINGLE-USER TOILET FACILITIES AND BATHING ROOMS, AND FAMILY OR ASSISTED TOILET ROOMS AND BATHING ROOMS SHALL BE IDENTIFIED FOR USE BY EACH SEX (PC2018M 403.1.2).

PER BALTIMORE CITY BILL 19-0385 ALL SINGLE-USE RESTROOM SIGNAGE TO BE GENDER NEUTRAL SUPERCEDING THE IBC AND IPC REQUIREMENTS.

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ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

3023 Garrison Blvd., Baltimore, MD 21216

AUGUST 29, 2025

BID SET

Revisions:

No.	Date	Description
1	2/7/2025	PERMIT REVISIONS

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PROJECT INFORMATION

G0.03

SHEET 4 OF 179

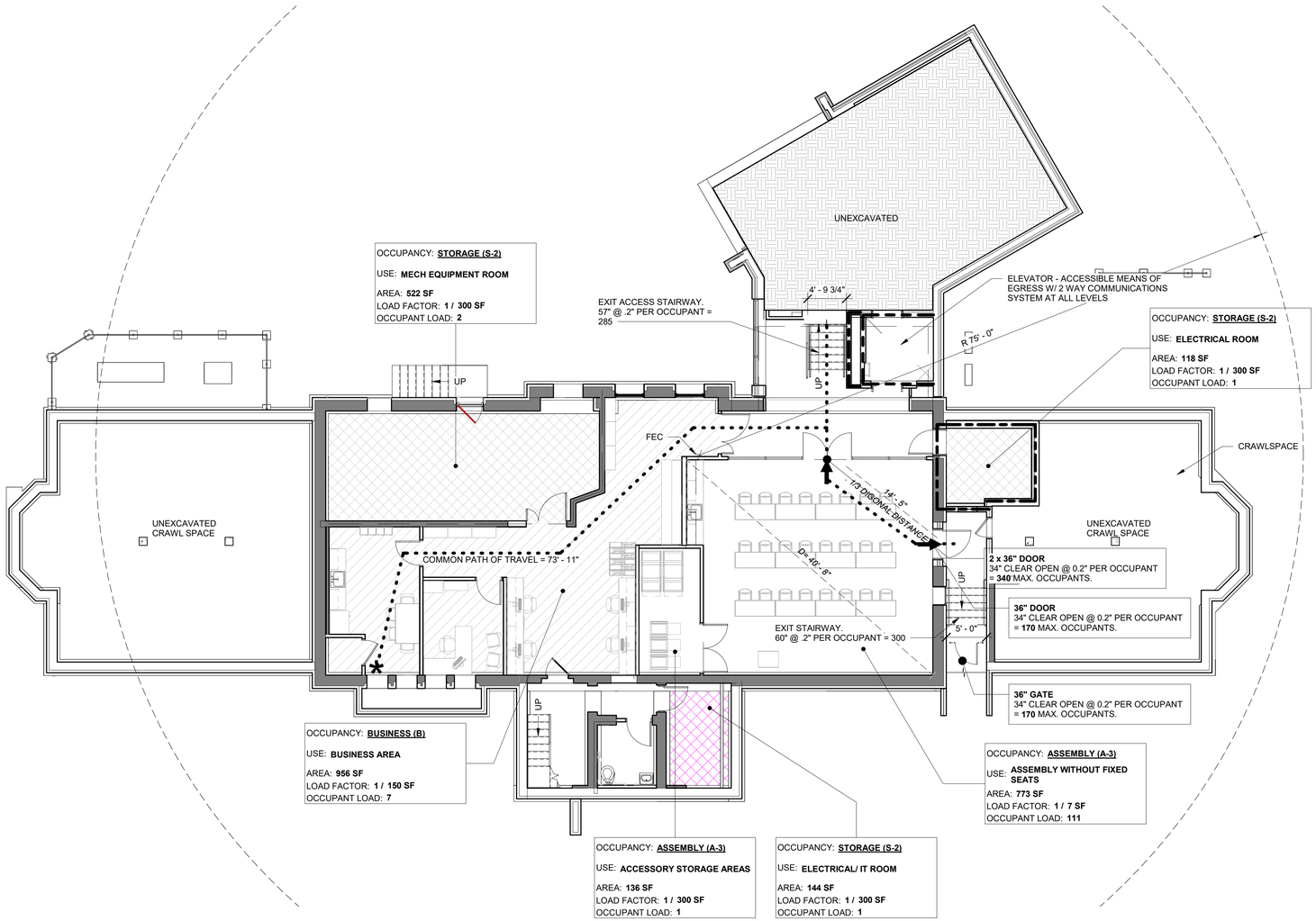
22057

2/6/2025 4:41:49 PM

SYMBOL LEGEND - CODE DATA

- ONE (1) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **U419**
- TWO (2) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **###**
- PATH OF EGRESS
- COMMON PATH OF TRAVEL
- EGRESS EXIT
- * MARKS BEGINNING & END OF A PATH OF TRAVEL SEGMENT

LEVEL	USE	TOTAL AREA	FACTOR	OCCUPANTS
LEVEL 0				
ASSEMBLY (A-3)				
LEVEL 0	ACCESSORY STORAGE AREAS	136 SF	300 SF	1
LEVEL 0	ASSEMBLY WITHOUT FIXED SEATS	773 SF	7 SF	111
BUSINESS (B)				
LEVEL 0	BUSINESS AREA	956 SF	150 SF	7
STORAGE (S-2)				
LEVEL 0	MECH EQUIPMENT ROOM	522 SF	300 SF	2
LEVEL 0	ELECTRICAL ROOM	118 SF	300 SF	1
LEVEL 0	ELECTRICAL/ IT ROOM	144 SF	300 SF	1
				123
GRADE LEVEL				
ASSEMBLY (A-3)				
GRADE LEVEL	LOBBY/RESTROOMS	Not Enclosed	50 SF	
STORAGE (S-1)				
GRADE LEVEL	STORAGE AREAS	79 SF	300 SF	1
				1
LEVEL 1				
ASSEMBLY (A-3)				
LEVEL 1	LIBRARY, READING ROOM	1176 SF	50 SF	24
LEVEL 1	LIBRARY, STACKS AREA	261 SF	100 SF	3
LEVEL 1	LIBRARY, STACKS AREA	151 SF	100 SF	2
LEVEL 1	LIBRARY, STACKS AREA	1069 SF	100 SF	11
LEVEL 1	LIBRARY, STACKS AREA	355 SF	100 SF	4
LEVEL 1	ASSEMBLY W/O FIXED SEATS, UNCONCENTRATED	91 SF	15 SF	7
LEVEL 1	ASSEMBLY W/O FIXED SEATS, UNCONCENTRATED	78 SF	15 SF	6
LEVEL 1	ASSEMBLY W/O FIXED SEATS, UNCONCENTRATED	103 SF	15 SF	7
LEVEL 1	LIBRARY, READING ROOM	260 SF	50 SF	6
LEVEL 1	LIBRARY, READING ROOM	775 SF	50 SF	16
BUSINESS (B)				
LEVEL 1	BUSINESS AREA	239 SF	150 SF	2
STORAGE (S-1)				
LEVEL 1	ACCESSORY STORAGE AREAS	37 SF	300 SF	1
LEVEL 1	ACCESSORY STORAGE AREAS	54 SF	300 SF	1
				90
				214



1 G0.10 LEVEL 0
1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

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AUGUST 29, 2025

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CODE PLAN - LOWER LEVEL

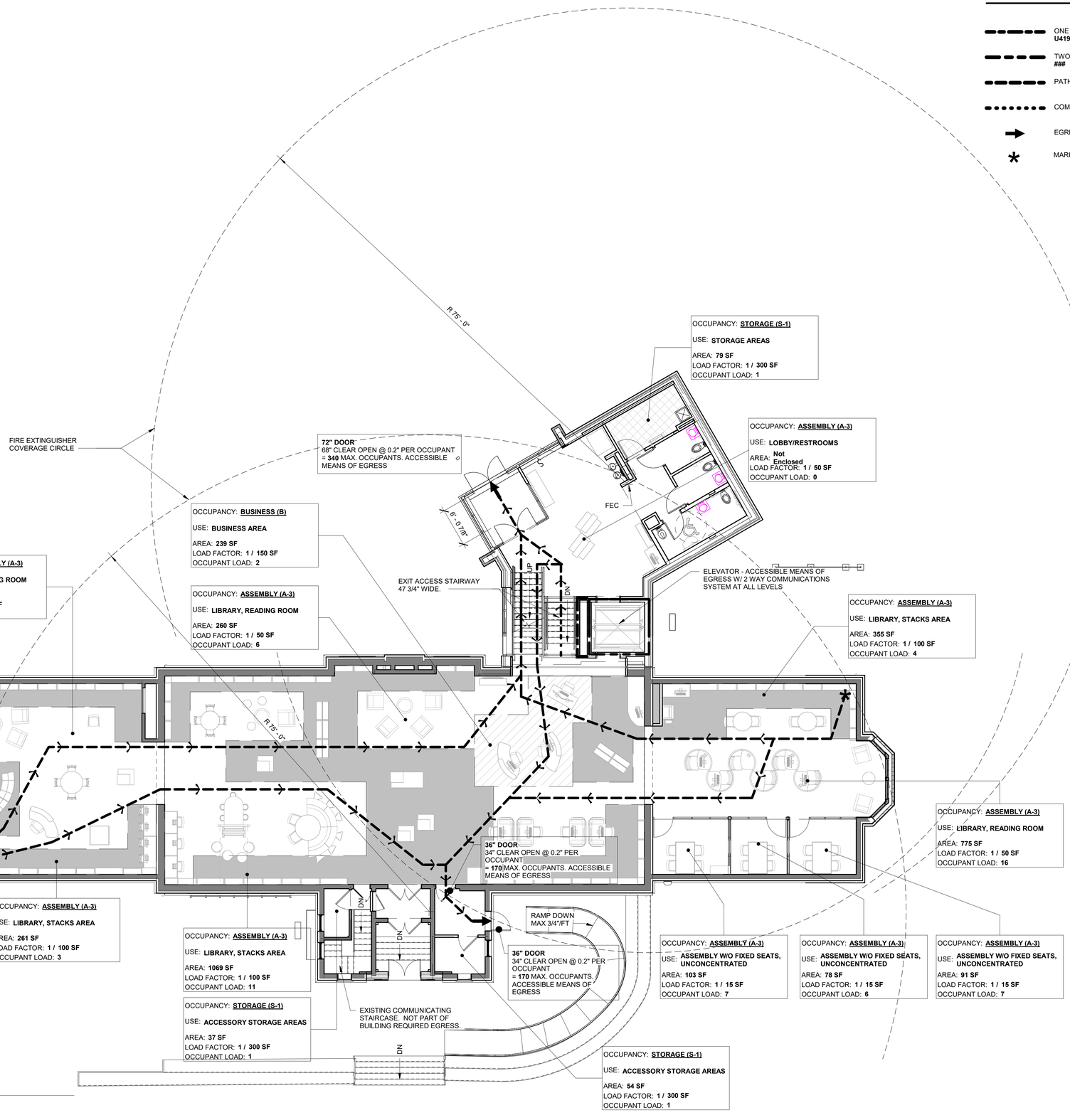
G0.10

SHEET 5 OF 179

22057

SYMBOL LEGEND - CODE DATA

- ONE (1) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **U419**
- TWO (2) HOUR FIRE BARRIER; COMPLY WITH UL: DESIGN NO. **###**
- PATH OF EGRESS
- COMMON PATH OF TRAVEL
- EGRESS EXIT
- * MARKS BEGINNING & END OF A PATH OF TRAVEL SEGMENT



1 G0.11 LEVEL 1
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PROJECT NORTH TRUE NORTH

2/6/2025 4:42:00 PM

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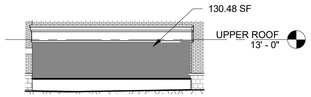
CODE PLAN - GROUND AND FIRST FLOOR

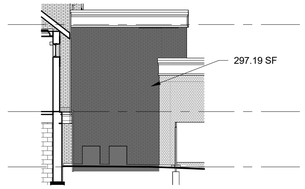
G0.11

22057

AREA	OPENINGS	SOLID	TOTAL
CODE ELEVATION - EAST	253.26	1541.51	1794.77
CODE ELEVATION - NORTH	187.64	870.02	1057.66
CODE ELEVATION - SOUTH	198.15	1044.35	1242.5
CODE ELEVATION - WEST	382.62	1807.97	2190.59
NORTHWEST ELEVATION	164.83	139.91	304.74
WEST ELEVATION	98.12	109.22	208.34
NORTH ELEVATION	180.49	384.8	565.29
EAST ELEVATION	0	369	369
SOUTH ELEVATION	0	273.33	273.33
SOUTHEAST ELEVATION	0	297.19	297.19
NORTHEAST ELEVATION	0	130.48	130.48
TOTAL	1466.11	6967.78	8433.89
THE PROJECT HAVE 17.3% OPENINGS			



11 G0.12 NORTHEAST ELEVATION
3/32" = 1'-0"



10 G0.12 SOUTHEAST ELEVATION
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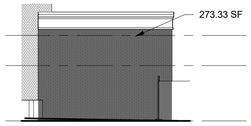

9 G0.12 SOUTH ELEVATION
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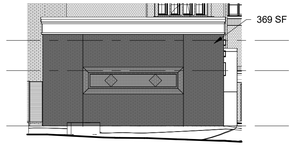

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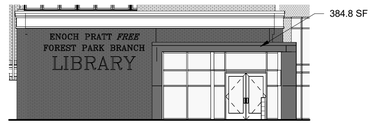

7 G0.12 NORTH ELEVATION
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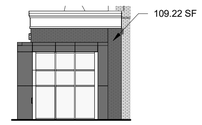

6 G0.12 WEST ELEVATION
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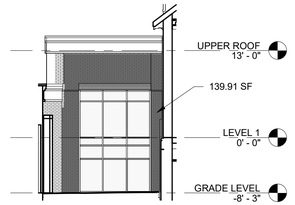

5 G0.12 NORTHWEST ELEVATION
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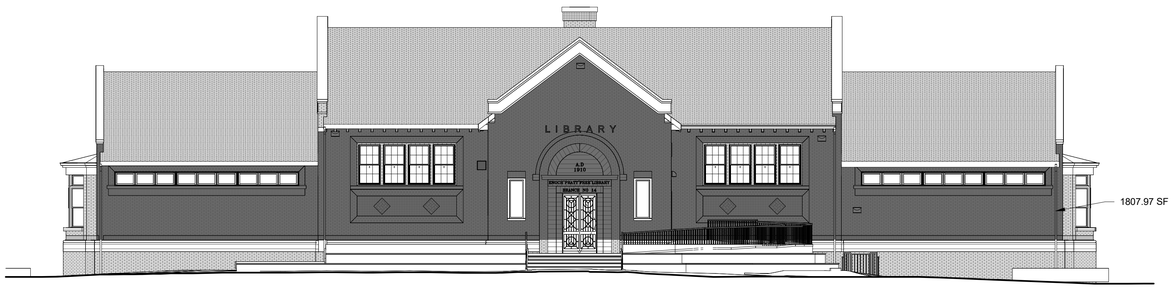

4 G0.12 CODE ELEVATION - WEST
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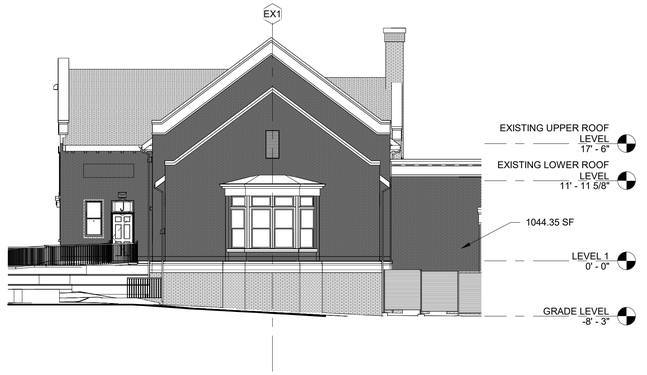

3 G0.12 CODE ELEVATION - SOUTH
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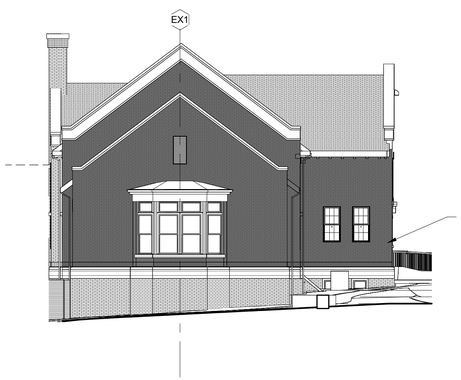

2 G0.12 CODE ELEVATION - NORTH
3/32" = 1'-0"

1 G0.12 CODE ELEVATION - EAST
3/32" = 1'-0"

PROJECT NORTH TRUE NORTH

2/6/2025 4:42:09 PM

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AUGUST 29, 2025

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Revisions:

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CODE ELEVATION - WINDOW AREA CALCULATIONS

G0.12

SHEET 7 OF 179

22057

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK.
2. CONTRACTOR SHALL PROVIDE PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
3. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AVAILABLE AS-BUILT PLANS PROVIDED BY BALTIMORE CITY DPW, AND A SUPPLEMENTAL SURVEY CONDUCTED BY PRECISION SURVEY & MAPPING LLC, DURING JULY, 2022.
4. EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION, WHICH INCLUDES A FIELD SURVEY CONDUCTED BY PRECISION SURVEY & MAPPING LLC, DURING JULY, 2022, AS-BUILT WATER, WASTEWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS.
5. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OUTLINED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE ENGINEER PRIOR TO STARTING ANY WORK.
6. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN HEREON BEFORE STARTING ANY WORK ON THESE PLANS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES INDICATED TO REMAIN.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL ADJUST ALL FRAMES, GRATES AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT TO THE PROPOSED GRADES AS REQUIRED.
9. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AT ALL TIMES.
10. CONTRACTOR SHALL COORDINATE ALL DISCONNECTIONS AND REMOVAL OF EXISTING GAS, ELECTRIC AND TELEPHONE SERVICES AND EQUIPMENT WITH BALTIMORE GAS & ELECTRIC AND VERIZON.
11. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT AND ACCESSORIES NOT REMOVED BY LOCAL UTILITY COMPANIES, OR SPECIFIED TO BE REMOVED BY OWNER.
12. CONTRACTOR SHALL INSTALL SEDIMENT CONTROLS PRIOR TO BEGINNING ANY WORK AND MAINTAIN SEDIMENT CONTROLS THROUGHOUT THE ENTIRE DURATION OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
13. ALL EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A PORTION OF A UTILITY IS TO BE REMOVED THE CONTRACTOR SHALL TERMINATE AND CAP TO THE LIMITS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
14. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
17. CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA AT THE END OF EACH WORKING DAY AND WILL INSPECT THE SECURITY FENCING TO INSURE ITS INTEGRITY.
18. ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE AND TAKEN TO AN APPROVED, PERMITTED DISPOSAL FACILITY. NO RUBBLE IS TO BE LEFT ON SITE.
19. CONTRACTOR SHALL PROVIDE THE NECESSARY MEANS TO CONTROL DUST AND MAINTAIN BALTIMORE CITY AIR QUALITY STANDARDS DURING THE DEMOLITION AND REMOVAL OF SITE DEBRIS AND THE NEW CONSTRUCTION.
20. CONTRACTOR SHALL SAWCUT EXISTING PAVING TO MINIMIZE DAMAGE TO EXISTING PAVING REMAINING.
21. CONTRACTOR SHALL REMOVE EXISTING CURBS & CONCRETE WALKS TO THE NEAREST JOINT. NO PATCHING WILL BE PERMITTED.
22. EXISTING UTILITIES TO BE ABANDONED IN PLACE UNLESS ENCOUNTERED DURING CONSTRUCTION, AT WHICH TIME THEY SHALL BE REMOVED IN THEIR ENTIRETY. IF ABANDONED IN PLACE, UTILITIES SHALL BE BACKFILLED WITH FLOWABLE FILL.
23. THE DEMOLITION INFORMATION SHOWN ON THESE DRAWINGS IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LIMITS OF DEMOLITION AND REMOVAL OF AFFECTED SITE ITEMS.
24. CONTRACTOR SHALL PROVIDE 8' HIGH TEMPORARY CONSTRUCTION FENCE AROUND THE LIMITS OF DISTURBANCE.
25. FOR BORING LOGS SEE SHEETS XXXX.
26. THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A CONSTRUCTION MATERIAL AND WASTE MANAGEMENT PLAN IN ACCORDANCE WITH "SECTION 1006 DEMOLITION" OF THE "INTERNATIONAL GREEN CONSTRUCTION CODE".
27. REFER TO ARCHITECTURAL PLANS FOR CONCRETE PAD LOCATIONS AT EXTERIOR DOORS AND ADDITIONAL CONTROL JOINT LOCATIONS.
28. ALL WORK SHOWN HEREON TO BE CONSTRUCTED PER BALTIMORE CITY STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.

UTILITY NOTES

1. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OUTLINED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE ENGINEER PRIOR TO STARTING ANY WORK.
2. CONTRACTOR SHALL CALL "MISS UTILITY" (800-257-7777) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
3. THE CONTRACTOR SHALL PROVIDE A PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
4. ALL WORK SHALL BE CONSTRUCTED PER BALITMORE CITY STANDARD DETAILS & SPECIFICATIONS UNLESS OTHERWISE NOTED.
5. CONSTRUCTION OF THE PROPOSED UTILITIES WILL BE IN ACCORDANCE WITH THE BALTIMORE CITY PLUMBING CODE AND BY A QUALIFIED CONTRACTOR.
6. NO WORK IS TO COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED.
7. CONTRACTOR SHALL TEST PIT FOR LOCATION OF EXISTING UTILITIES TO VERIFY TIE-INS PRIOR TO STARTING CONSTRUCTION.
8. EXISTING CURB AND GUTTER & CONCRETE SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
9. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION.
10. ALL CLEANOUTS LOCATED IN PAVED AREAS SHALL HAVE COUNTERSUNK LIDS.
11. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE UNDERGROUND ELECTRIC SERVICE AND THE UNDERGROUND GAS SERVICE WITH THE BALTIMORE GAS, ELECTRIC COMPANY. SEE ELECTRICAL PLANS FOR DETAILS.
12. CONTRACTOR SHALL ADJUST TOP OF EXISTING UTILITIES, I.E. MANHOLE FRAME AND COVER, INLET GRATES, ETC. TO FINISHED GRADE.
13. SANITARY SEWER LINES OUTSIDE OF THE BUILDING WILL BE PVC CLASS SDR 35.
14. TRENCH REPAIR IN FAIRVIEW AVENUE SHALL BE PER BALTIMORE CITY STD. DETAIL BC 576.19-1 & BC 576.19-2.
15. ALL WATER PIPING, TUBING, FITTINGS AND JOINING METHODS SHALL BE ACCORDING TO THE FOLLOWING APPLICATIONS:

    4 INCHES (DN 100) TO 8 INCHES (DN 200). CLASS 'D' OR CLASS 250, DUCTILE IRON PIPE, DUCTILE IRON COMPACT FITTINGS, AND MECHANICAL JOINTS WITH RETAINER GLANDS
16. SEE PLUMBING PLANS FOR CONTINUATION OF UTILITY CONNECTIONS TO THE BUILDING.
17. SEE ELECTRICAL PLANS FOR SITE LIGHTING AND CONDUIT LOCATIONS.
18. STORM DRAIN PIPE AND FITTINGS SHALL BE BLUE SEAL WATER-TIGHT CORRUGATED POLYETHYLENE PIPE (HDPE) OR APPROVED EQUAL (UNLESS NOTED OTHERWISE), AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC.
19. ON SITE FIRE HYDRANTS ARE TO BE PAINTED RED AND FIRE HYDRANTS STREAMER NOZZLE TO FACE DRIVE AISLES.
20. ALL EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A PORTION OF A UTILITY IS TO BE REMOVED, THE CONTRACTOR SHALL TERMINATE AND CAP TO THE LIMITS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
21. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THESE DRAWINGS UNLESS OTHERWISE NOTED.
22. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
23. PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING UTILITIES WILL TIE IN WITH PROPOSED UTILITIES AS SHOWN.
24. SEE MECHANICAL / ELECTRICAL / PLUMBING PLANS FOR SITE ELECTRICAL AND BUILDING PLUMBING INFORMATION.
25. ALL VALVES SHALL BE IN STANDARD CONCRETE VAULTS IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAILS.
26. ALL CHANNELS IN MANHOLES SHALL BE CONSTRUCTED TO CONFORM AS CLOSE AS POSSIBLE TO THE STANDARD CHANNELS CALLED FOR IN THE UTILITY PROFILES.
27. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR WORKING WITHIN THE LIMITS OF EXISTING BALTIMORE CITY RIGHT-OF-WAYS.
28. GRAVEL CRADLE IS REQUIRED UNDER ALL PIPE. SEE BALTIMORE CITY STANDARD DETAILS BC. 302.02 THRU 302.04.
29. ALL BACKFILL SHALL BE MECHANICALLY TAMPED.

SHEET INDEX

DWG#	SHEET#	SHEET NAME
1	C1.00	GENERAL NOTES
2	C2.00	EXISTING CONDITIONS PLAN
3	C2.01	DEMOLITION PLAN
4	C3.00	SITE & GRADING PLAN
5	C3.01	SITE DETAILS
6	C4.00	UTILITY PLAN
7	C4.01	STORM DRAIN DRAINAGE AREA MAP
8	C4.02	UTILITY PROFILES
9	C4.03	UTILITY PROFILES
10	C5.00	EXISTING IMPERVIOUS AREA MAP
11	C5.01	PROPOSED IMPERVIOUS AREA MAP
12	C5.02	ENVIRONMENTAL SITE DESIGN PLAN
13	C5.03	EXISTING QUANTITY MANAGEMENT DA MAP
14	C5.04	PROPOSED QUANTITY MANAGEMENT DA MAP
15	C5.05	STORMWATER MANAGEMENT FACILITY PLAN
16	C5.06	STORMWATER MANAGEMENT QUANTITY FACILITY PLAN
17	C5.07	STORMWATER MANAGEMENT DETAILS
18	C5.08	STORMWATER MANAGEMENT DETAILS
19	C5.09	STORMWATER MANAGEMENT NOTES
20	C6.00	EROSION & SEDIMENT CONTROL PLAN
21	C6.01	EROSION & SEDIMENT CONTROL EX. DA MAP
22	C6.02	EROSION & SEDIMENT CONTROL PROP. DA MAP
23	C6.03	EROSION & SEDIMENT CONTROL DETAILS
24	C6.04	EROSION & SEDIMENT CONTROL NOTES
25	C6.05	EROSION & SEDIMENT CONTROL STABILIZATION NOTES
26	C6.06	EROSION & SEDIMENT CONTROL STABILIZATION NOTES
27	C7.00	PUBLIC WATER PLAN

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STATE OF MARYLAND
RYAN J. PRICE
21066
PROFESSIONAL ENGINEER
2/7/25

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 51066, EXPIRATION DATE 06-07-2025

ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET
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GENERAL NOTES

C1.00
SHEET 8 OF 179

19060

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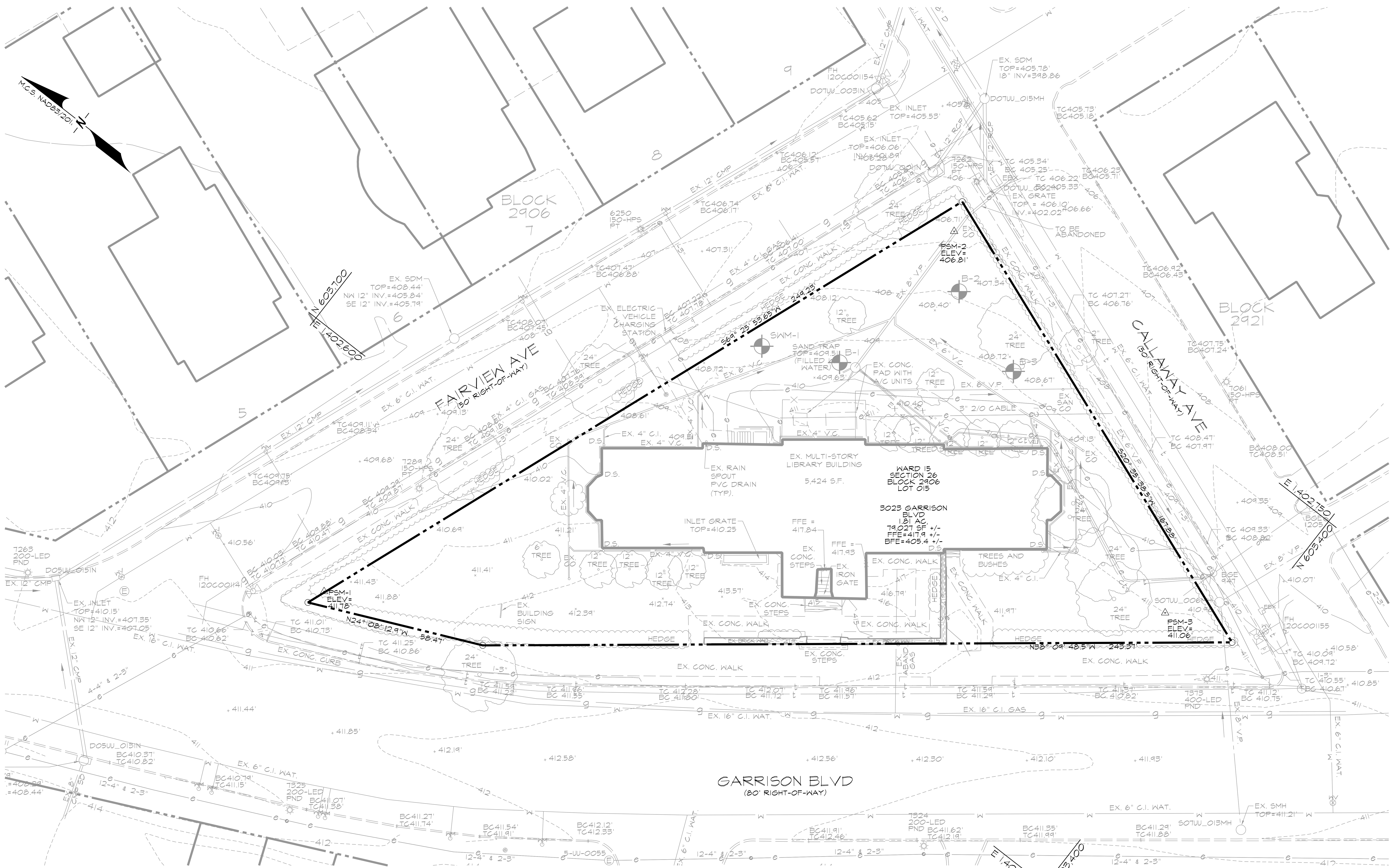


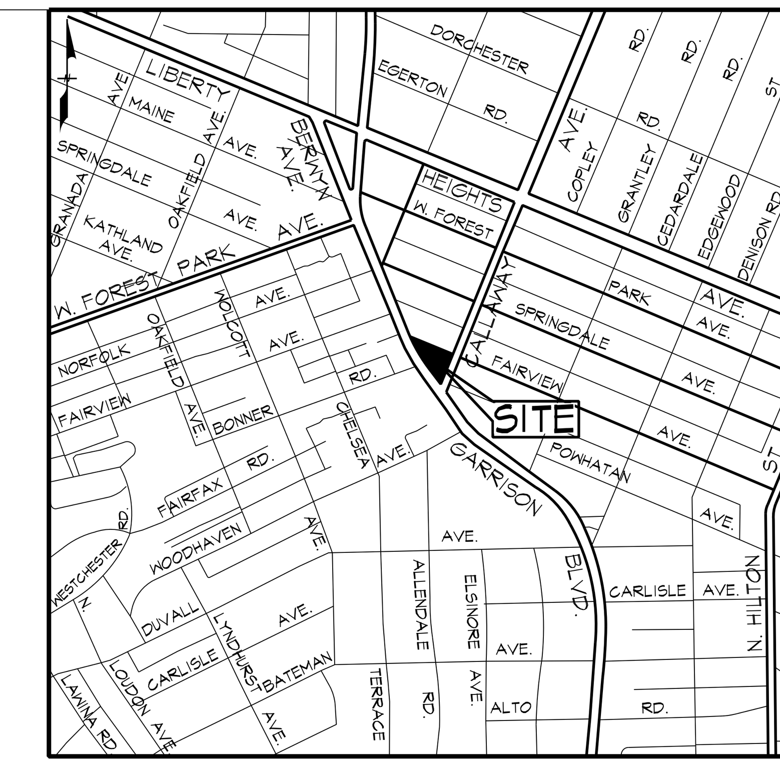
EXISTING CONDITIONS PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAV83/NA2011 EPOCH 2010) & NAV88 FOR VERTICAL:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,531.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,553.83047	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,693.97987	411.06'	IRON REBAR AND CAP

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS MAIN
- EX. COMMUNICATION
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND ELECTRIC
- EX. SANITARY SEWER
- EX. STORM DRAIN
- EX. WATER
- EX. FENCE
- EX. WOODS LINE
- EX. WATER METER
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH

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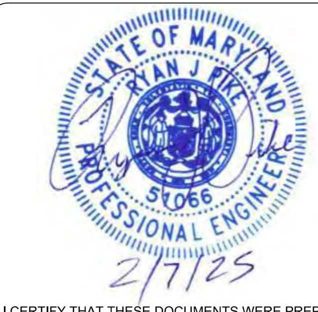

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EXISTING CONDITIONS PLAN

C2.00
SHEET 9 OF 179
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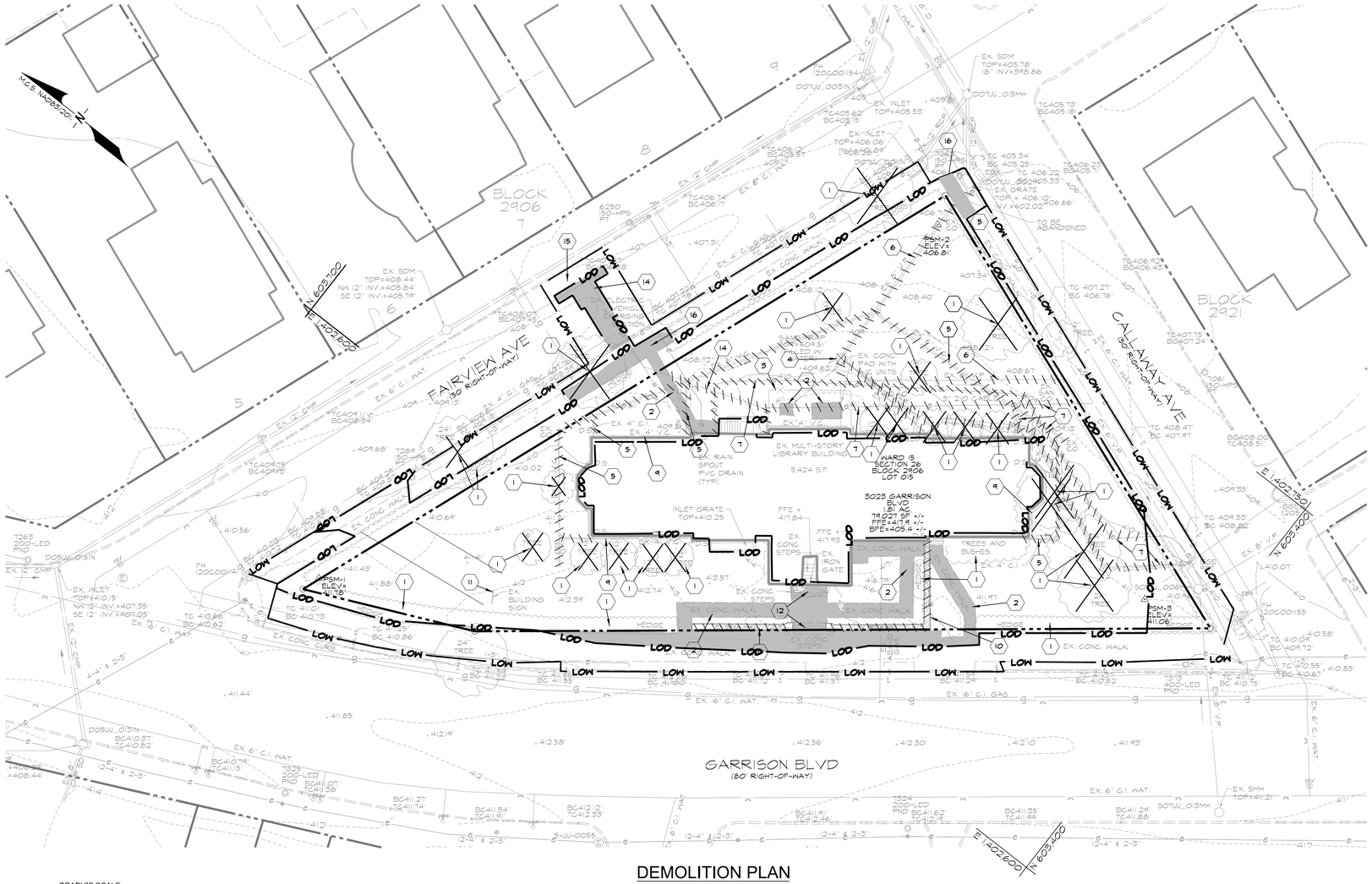

DEMOLITION PLAN
SCALE: 1" = 20'

VICINITY MAP
SCALE: 1" = 1000'

BENCHMARK DATA
THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010) & NAVB8 FOR VERTICAL.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,551.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,555.83041	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,683.97987	411.06'	IRON REBAR AND CAP

LEGEND
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- LOW — LIMITS OF WORK
- 185 — EX. INDEX CONTOUR
- 186 — EX. INTERMEDIATE CONTOUR
- EX. CONC. CURB
- g — EX. GAS MAIN
- t — EX. COMMUNICATION
- OHE — EX. OVERHEAD ELECTRIC
- e — EX. ELECTRIC
- 6" SAN — EX. SANITARY SEWER
- 15" RCP — EX. STORM DRAIN
- 8" WATER — EX. WATER
- X — X — X — EX. FENCE
- EX. HEDGE LINE
- WM — EX. WATER METER
- EX. WATER VALVE
- FH — EX. FIRE HYDRANT
- SMH — EX. SANITARY MANHOLE
- MH — EX. STORM DRAIN MANHOLE
- CO — EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- EX. TREE / BUSH TO BE REMOVED
- APPROXIMATE LIMITS OF EX. UTILITIES TO BE REMOVED
- APPROXIMATE LIMITS OF EXISTING PAVING/CONCRETE TO BE REMOVED

DEMOLITION KEY
1. EX. TREE/BUSH/HEDGE TO BE REMOVED
2. EX. CONCRETE TO BE REMOVED
3. EX. FENCE TO BE REMOVED
4. EX. SAND TRAP TO BE REMOVED
5. EX. STORM DRAIN TO BE REMOVED/ABANDONED
6. EX. SANITARY PIPE TO BE REMOVED/ABANDONED
7. EX. UNDERGROUND ELECTRIC TO BE REMOVED
8. EX. CONCRETE TO BE REPLACED
9. EX. FOUNDATION DRAIN TO REMAIN
10. EX. WALL TO BE REMOVED, TWO WALL TOPPERS (BEST CONDITION) TO BE SALVAGED FOR REUSE
11. EX. SIGN TO BE REMOVED
12. EX. STEPS TO BE REMOVED
13. EX. CURB & GUTTER TO BE REMOVED FOR STABILIZED CONSTRUCTION ENTRANCE
14. EX. WATER LINE AND METER VAULT TO BE REMOVED
15. PAVEMENT TO BE MILLED AND OVERLAYED
16. EX. CONCRETE TO BE REMOVED AND REPLACED IN-KIND
17. EX. GAS LINE AND APPURTANCES TO BE REMOVED/ABANDONDED

NOTE
1. FOR GENERAL NOTES SEE DRAWING C1.00
2. FOR WORK WITHIN THE RIGHT-OF-WAY, SEE DEVELOPER'S AGREEMENT PLANS

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STATE OF MARYLAND
RYAN T. PIPPY
51066
PROFESSIONAL ENGINEER
2/7/25

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DEMOLITION PLAN

C2.01
SHEET 10 OF 179

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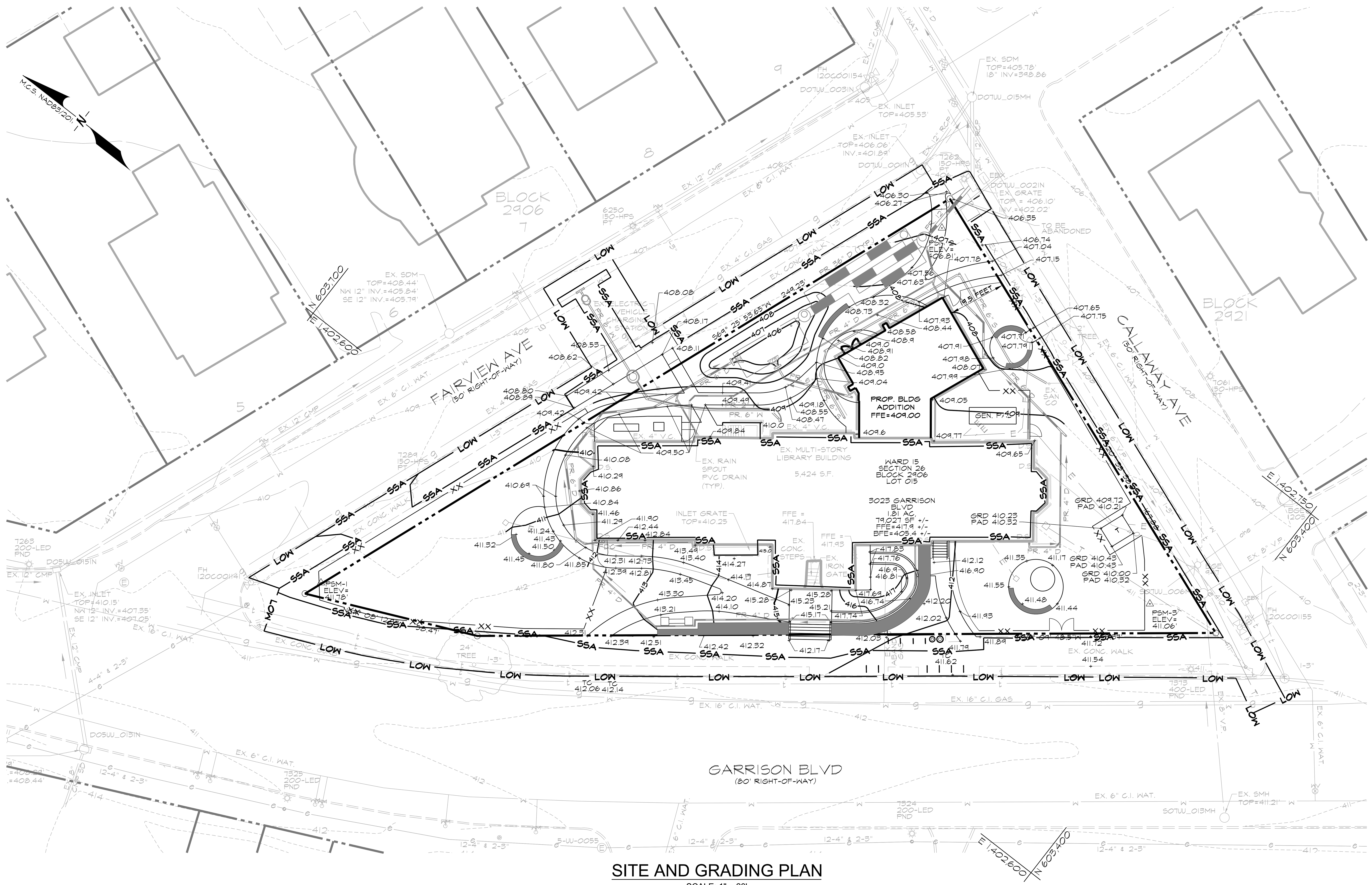


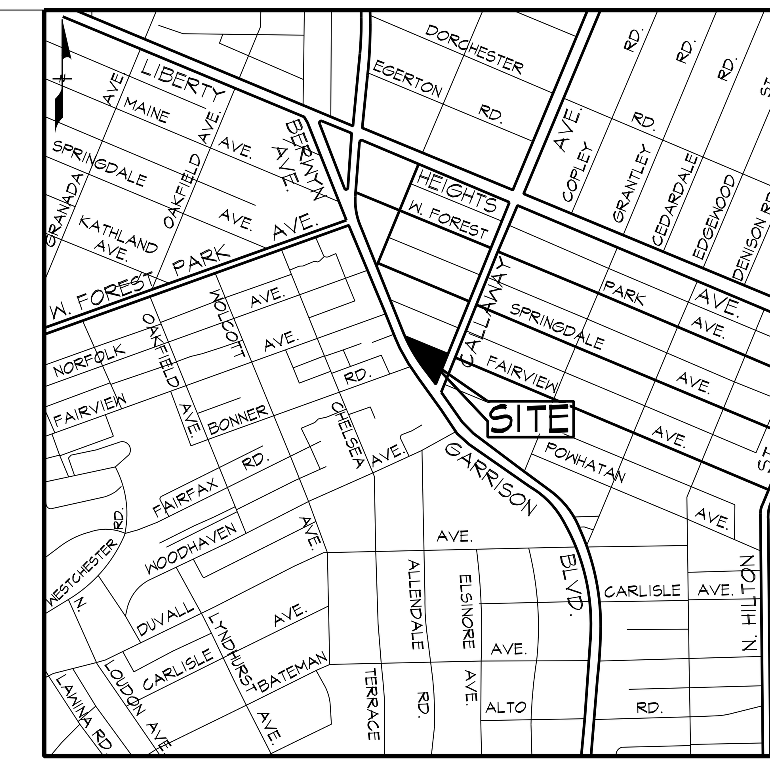
SITE AND GRADING PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

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PSM-3	603,423.59427	1,402,693.97987	411.06'	IRON REBAR AND CAP

SITE DATA

SITE ADDRESS:	3023 GARRISON BLVD BALTIMORE, MD 21216
OWNER:	MAYOR & CITY COUNCIL 3023 GARRISON BLVD BALTIMORE, MD 21216
PROPERTY REFERENCE:	WARD 15 SECTION 260 BLOCK 2906 LOT 15
TOTAL LOT/SITE AREA:	1.81 AC.
TOTAL LIMIT OF DISTURBANCE:	21,732 S.F. OR 0.50 AC.
COUNCILMANIC DISTRICT:	6TH DISTRICT
EXISTING / PROPOSED USE:	PUBLIC LIBRARY
ZONING:	R-1
SETBACKS:	FRONT 30 FEET; SIDE 10 FEET; REAR 30 FEET; CORNER 20 FEET
FLOODPLAIN INFORMATION:	THE SITE IS NOT LOCATED WITHIN THE 100 YEAR FLOODPLAIN AND DELINEATED ON FEMA FLOOD INSURANCE RATE MAP 2400871119. THE SITE IS LOCATED IN ZONE X WHICH MEANS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. A REVIEW OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES (DNR) MAPPING INDICATED THAT NO ONSITE WETLANDS OR STREAMS EXIST ON THE SITE.

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SET BACK LINE
- EX. INDEX CONTOUR (400)
- EX. INTERMEDIATE CONTOUR (401)
- EX. CURB AND GUTTER
- EX. GAS MAIN (g)
- EX. COMMUNICATION (t)
- EX. OVERHEAD ELECTRIC (ohe)
- EX. ELECTRIC (e)
- EX. SANITARY SEWER (3" SAN.)
- EX. STORM DRAIN (15" RCP.)
- EX. WATER (8" WATER)
- EX. FENCE
- EX. WOODS LINE
- EX. WATER METER (WM)
- EX. WATER VALVE (WV)
- EX. FIRE HYDRANT (FH)
- EX. SANITARY MANHOLE (SMH)
- EX. STORM DRAIN MANHOLE (MH)
- EX. CLEANOUT (CO)
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- LIMIT OF DISTURBANCE (LOD)
- PROP. INDEX CONTOUR (400)
- PROP. INTERMEDIATE CONTOUR (401)
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. SANITARY SEWER (PROP. 4" SAN.)
- PROP. WATER LINE (PROP. 6" W)
- PROP. STORM DRAIN (PROP. 15" D)
- PROP. MANHOLE
- PROP. FENCE (XX)

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STATE OF MARYLAND RYAN J PIKE 51066 PROFESSIONAL ENGINEER
2/7/25

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ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH

WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15

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SITE & GRADING PLAN

C3.00

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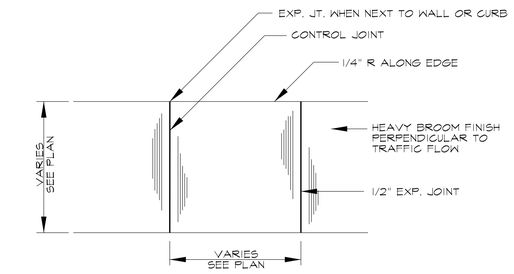
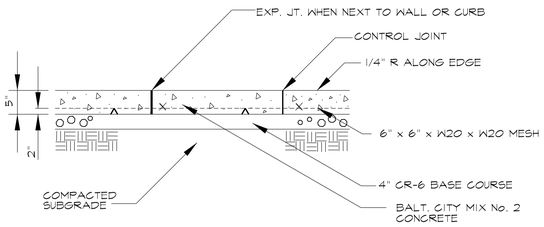


PROFILE

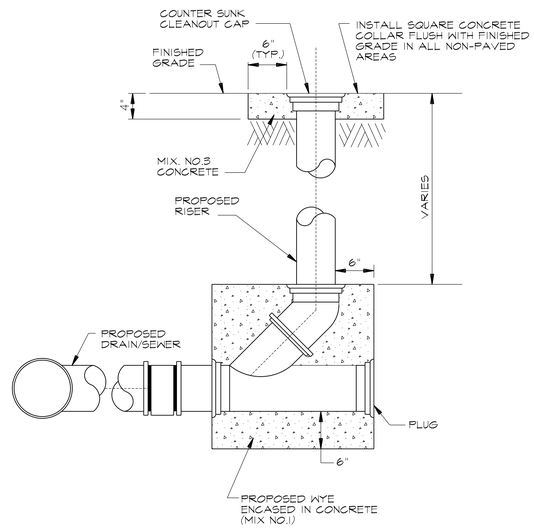


NOTE: PROVIDE 2% CROSS-SLOPE FOR POSITIVE DRAINAGE AS REQUIRED

SECTION

1. PROVIDE EXPANSION JOINTS 40' C.C. MAX. AND SCORE JOINTS 5' C.C. (UNLESS OTHERWISE NOTED). EXPANSION JOINTS SHALL BE 1/2" PREMOLDED BITUMINOUS JOINT MATERIAL IN ACCORDANCE WITH BALTIMORE CITY SPECIFICATION.
2. WHEN SIDEWALK ABUTS CURB, SIDEWALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREMOLDED BITUMINOUS JOINT MATERIAL.
3. SEE BALTIMORE CITY STANDARD DETAIL BC 655.05 FOR ADDITIONAL INFORMATION.
4. EXPANSION JOINTS SHALL BE SEALED PER THE PROJECT SPECIFICATIONS.

1 C3.01 CONCRETE SIDEWALK
NOT TO SCALE



2 C3.01 STANDARD CLEANOUT DETAIL
NOT TO SCALE

10/13/2022 9:13:19 AM

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STATE OF MARYLAND
RYAN T. PITTS
51066
PROFESSIONAL ENGINEER
2/7/25

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SITE DETAILS

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SHEET 12 OF 179

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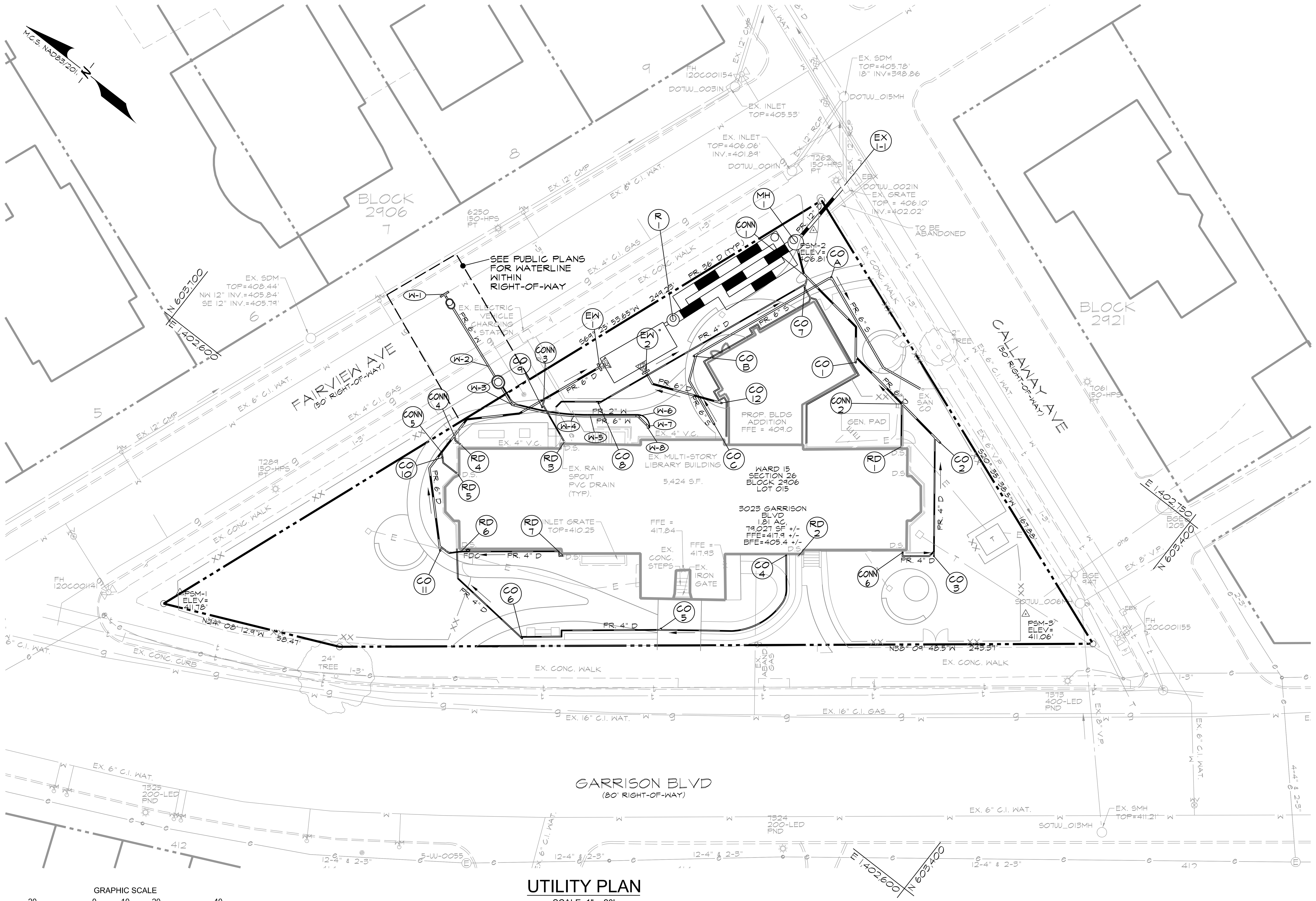


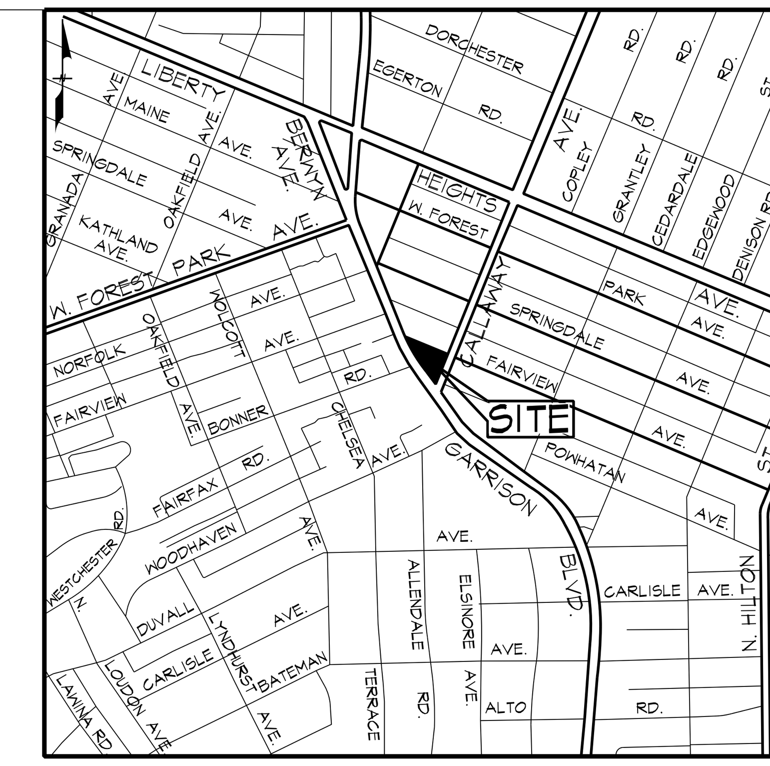
UTILITY PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAV83/NA2011 EPOCH 2010) & NAV88 FOR VERTICAL:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,531.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,553.83047	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,693.97987	411.06'	IRON REBAR AND CAP

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. CURB AND GUTTER
- EX. GAS MAIN
- EX. COMMUNICATION
- EX. OVERHEAD ELECTRIC
- EX. ELECTRIC
- EX. SANITARY SEWER (8" SAN.)
- EX. STORM DRAIN (15" RCP.)
- EX. WATER (8" WATER)
- EX. FENCE
- EX. HEDGE LINE
- EX. WATER METER
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. SANITARY SEWER (PROP. 4" SAN.)
- PROP. WATER LINE (PROP. 6" W)
- PROP. STORM DRAIN (PROP. 15" D)
- PROP. MANHOLE
- PROP. WATER METER SEE PUBLIC PLAN C7.00
- PROP. ELECTRIC

STORM DRAIN STRUCTURE SCHEDULE

NO.	DESCRIPTION	REMARKS	NORTHING	EASTING
R-1	48" MANHOLE W/ DOMED GRATE	SEE DETAIL SHEET C5.06	603,571.80	1,402,698.89
MH-1	60" MANHOLE W/ DOMED GRATE	SEE DETAIL SHEET C5.06	603,556.00	1,402,743.04
CO-1	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,516.85	1,402,724.33
CO-2	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,479.45	1,402,720.65
CO-3	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,458.46	1,402,690.50
CO-4	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,496.28	1,402,661.42
CO-5	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,513.61	1,402,617.92
CO-6	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,547.04	1,402,587.80
CO-7	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,544.72	1,402,733.20
CO-8	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,574.28	1,402,662.82
CO-9	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,587.82	1,402,650.61
CO-10	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,603.26	1,402,618.08
CO-11	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,585.32	1,402,593.90
CO-12	STANDARD CLEANOUT DETAIL	SEE DETAIL SHEET C3.01	603,542.95	1,402,687.36

WATER STRUCTURE SCHEDULE

WATER LINE	NO.	STA.	DESCRIPTION	REMARKS	COORDINATES NORTHING	COORDINATES EASTING
A	W-1	0+00	6" SLEEVE & SPACER, VALVE & VAULT	BC 834.01	603,634.84	1,402,663.10
	W-2	0+35.33	6" DC W/ 2" DOM. SERV. & 2" METER	BC 851.02	603,601.78	1,402,650.63
	W-3	0+45.53	6" 1/8 (45°) HORIZ. BEND		603,592.23	1,402,647.04
	W-4	0+61.68	6" 1/16 (22.5°) VERT. BEND		603,578.08	1,402,654.76
	W-5	0+66.98	6" 1/16 (22.5°) VERT. BEND		603,573.80	1,402,657.95
	W-6	0+82.41	6" 1/8 (45°) HORIZ. BEND		603,561.66	1,402,667.42
	W-7	0+86.97	6" 1/8 (45°) HORIZ. BEND		603,557.13	1,402,666.86
	W-8	0+88.04	TEMP. 6" & 2" CAPS		603,556.72	1,402,666.34

SANITARY STRUCTURE SCHEDULE

NO.	DESCRIPTION	REMARKS	COORDINATES NORTHING	COORDINATES EASTING
CO-A	STANDARD CLEANOUT	SEE DETAIL SHEET C3.01	603,540.02	1,402,741.20
CO-B	STANDARD CLEANOUT	SEE DETAIL SHEET C3.01	603,561.33	1,402,688.93
CO-C	STANDARD CLEANOUT	SEE DETAIL SHEET C3.01	603,540.64	1,402,680.50

NOTES:

1. SEE WATER METER PLAN SHEET C7.00 FOR THE PROPOSED WATER SERVICE / METER CONNECTION IN FAIRVIEW AVENUE.
2. SEE SHEET C1.00 FOR UTILITY NOTES

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STATE OF MARYLAND RYAN J. PIKE 51066 PROFESSIONAL ENGINEER 2/7/25

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 51066, EXPIRATION DATE 06-07-2025

ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET
PSC #

Sheet Issue Date: 02/07/2025

Revisions:
No. Date Description

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UTILITY PLAN

C4.00
SHEET 13 OF 179
19060

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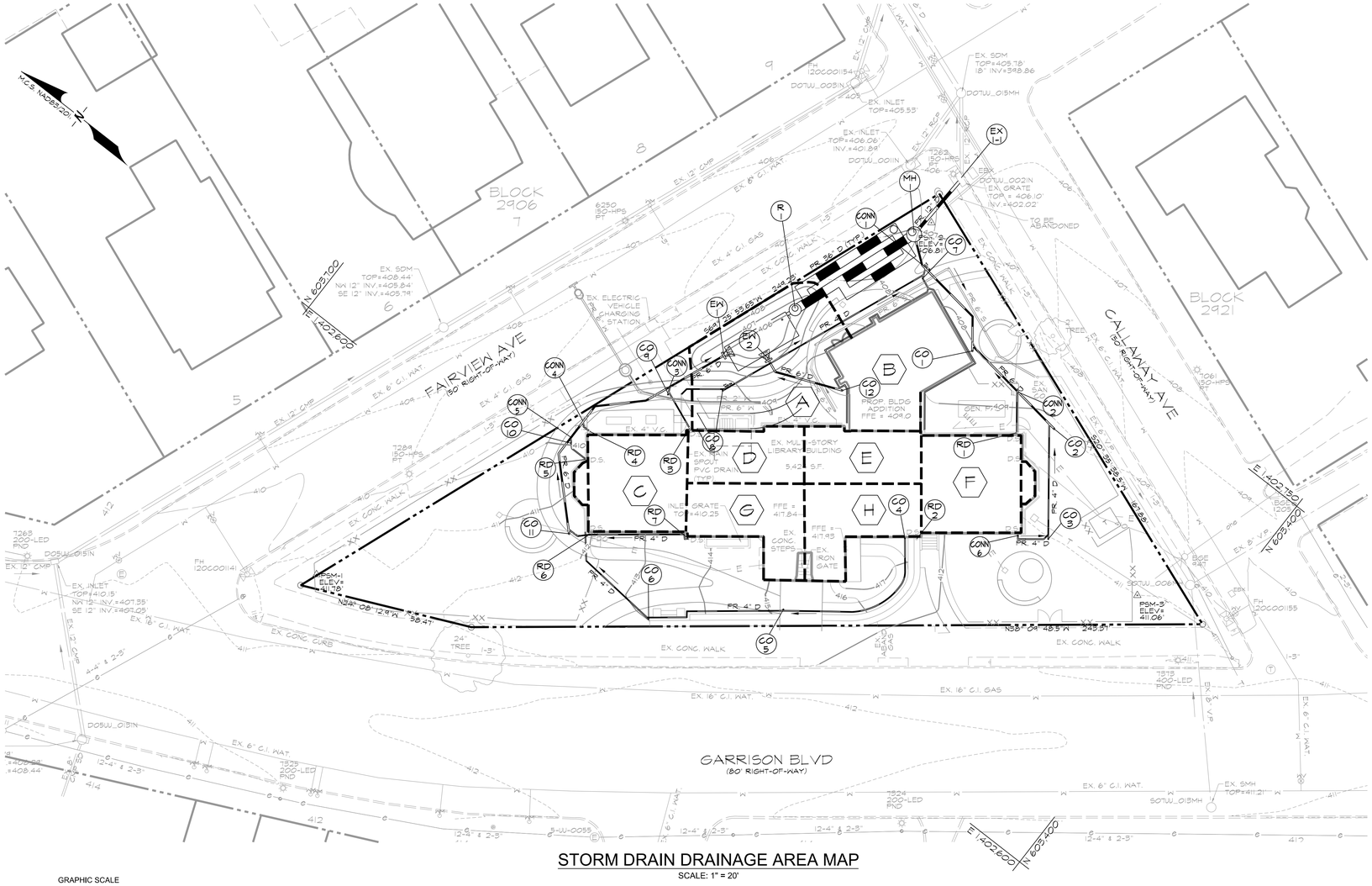

STORM DRAIN DRAINAGE AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010) & NAVB8 FOR VERTICAL.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,551.52030	411.78'	IRON REBAR AND CAP
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PSM-3	603,423.59427	1,402,643.97987	411.06'	IRON REBAR AND CAP

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- 185 EX. INDEX CONTOUR
- 186 EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- G EX. GAS MAIN
- T EX. COMMUNICATION
- OHE EX. OVERHEAD ELECTRIC
- E EX. ELECTRIC
- 8" SAN EX. SANITARY SEWER
- 15" RCP EX. STORM DRAIN
- 8" WATER W EX. WATER
- X EX. FENCE
- EX. WOODS LINE
- WM EX. WATER METER
- WV EX. WATER VALVE
- FH EX. FIRE HYDRANT
- SMH EX. SANITARY MANHOLE
- MH EX. STORM DRAIN MANHOLE
- CO EX. CLEANOUT
- GV EX. GAS VALVE
- S EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- 185 PROP. INDEX CONTOUR
- 184 PROP. INTERMEDIATE CONTOUR
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. 4" SAN. PROP. SANITARY SEWER
- PROP. 6" W PROP. WATER LINE
- PROP. 15" D PROP. STORM DRAIN
- PROP. MANHOLE
- DRAINAGE AREA BOUNDARY
- A DRAINAGE AREA LABEL

DRAINAGE AREAS

NO.	AREA		RUNOFF COEFFICIENT, "C"	DISCHARGE, "Q"
	SQUARE FEET	ACRES		
A	2069.84	0.048	0.48	0.15
B	1217.92	0.028	0.9	0.18
C	1062.29	0.024	0.9	0.15
D	694.51	0.016	0.9	0.10
E	701.93	0.016	0.9	0.10
F	1074.60	0.025	0.9	0.16
G	889.72	0.020	0.9	0.13
H	878.98	0.020	0.9	0.13

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STATE OF MARYLAND
RYAN T. FITZ
51066
PROFESSIONAL ENGINEER
2/7/25

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ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
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3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

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STORM DRAIN DRAINAGE AREA MAP

C4.01
SHEET 14 OF 179

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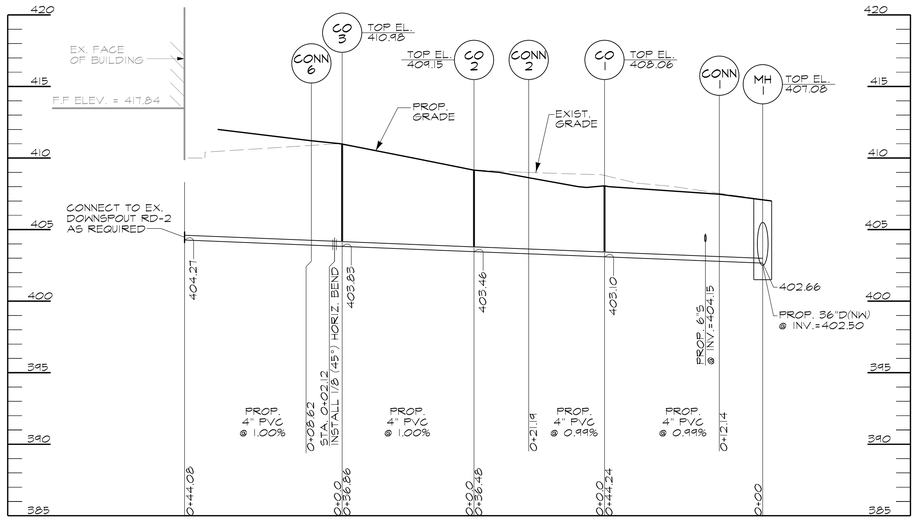
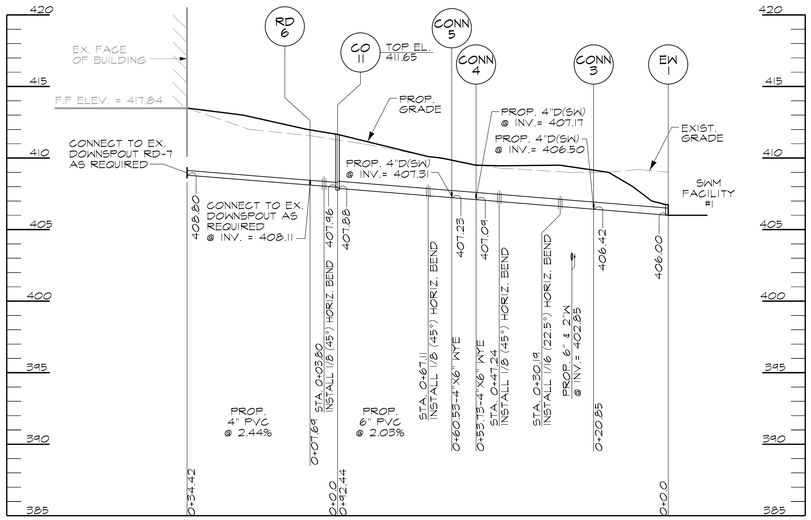


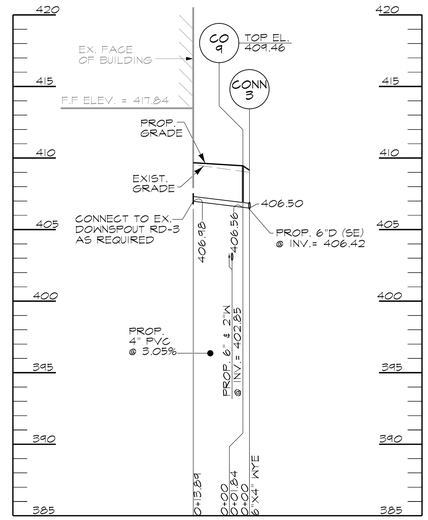
STORM DRAIN PROFILE (RD-2 TO MH-1)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



STORM DRAIN PROFILE (RD-7 TO EW-1)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



STORM DRAIN PROFILE (RD-3 TO CONN-3)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

STORM DRAIN PROFILE (RD-5 TO CONN-5)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

STORM DRAIN PROFILE (RD-4 TO CONN-4)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

STORM DRAIN PROFILE (RD-1 TO CONN-2)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

STORM DRAIN PROFILE (CO-8 DRAIN TO CONN-1)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

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STATE OF MARYLAND
RYAN T. FIFE
21066
PROFESSIONAL ENGINEER
2/7/25

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ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

May 29, 2024
100% CD
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UTILITY PROFILES

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SHEET 15 OF 179
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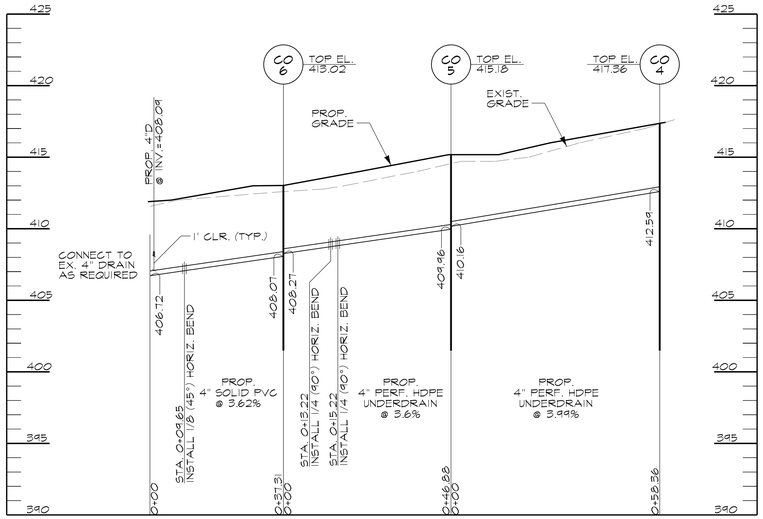
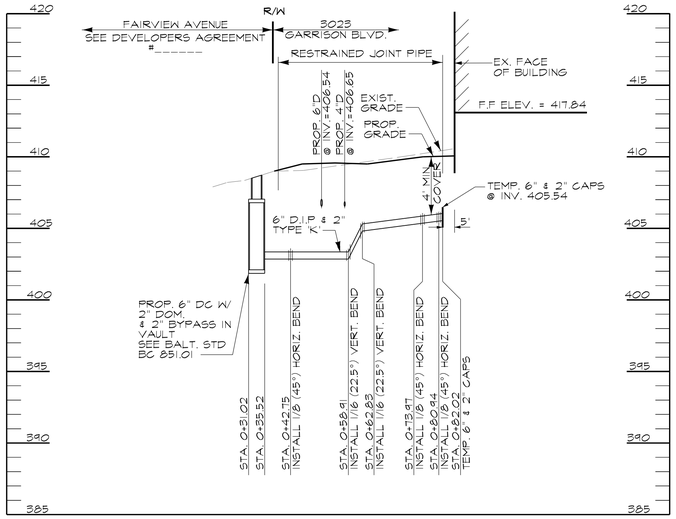


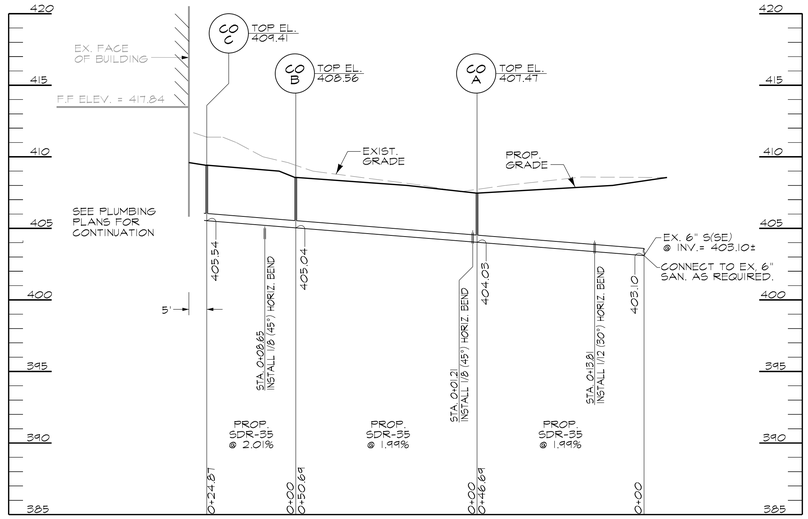
STORM DRAIN PROFILE (CO-4 DRAIN TO EX. FOUNDATION DRAIN)

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



WATERLINE 'A' PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



SANITARY SEWER PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

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STATE OF MARYLAND
RYAN T. PRATT
PROFESSIONAL ENGINEER
21066
2/7/25

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WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
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Baltimore, MD 21216

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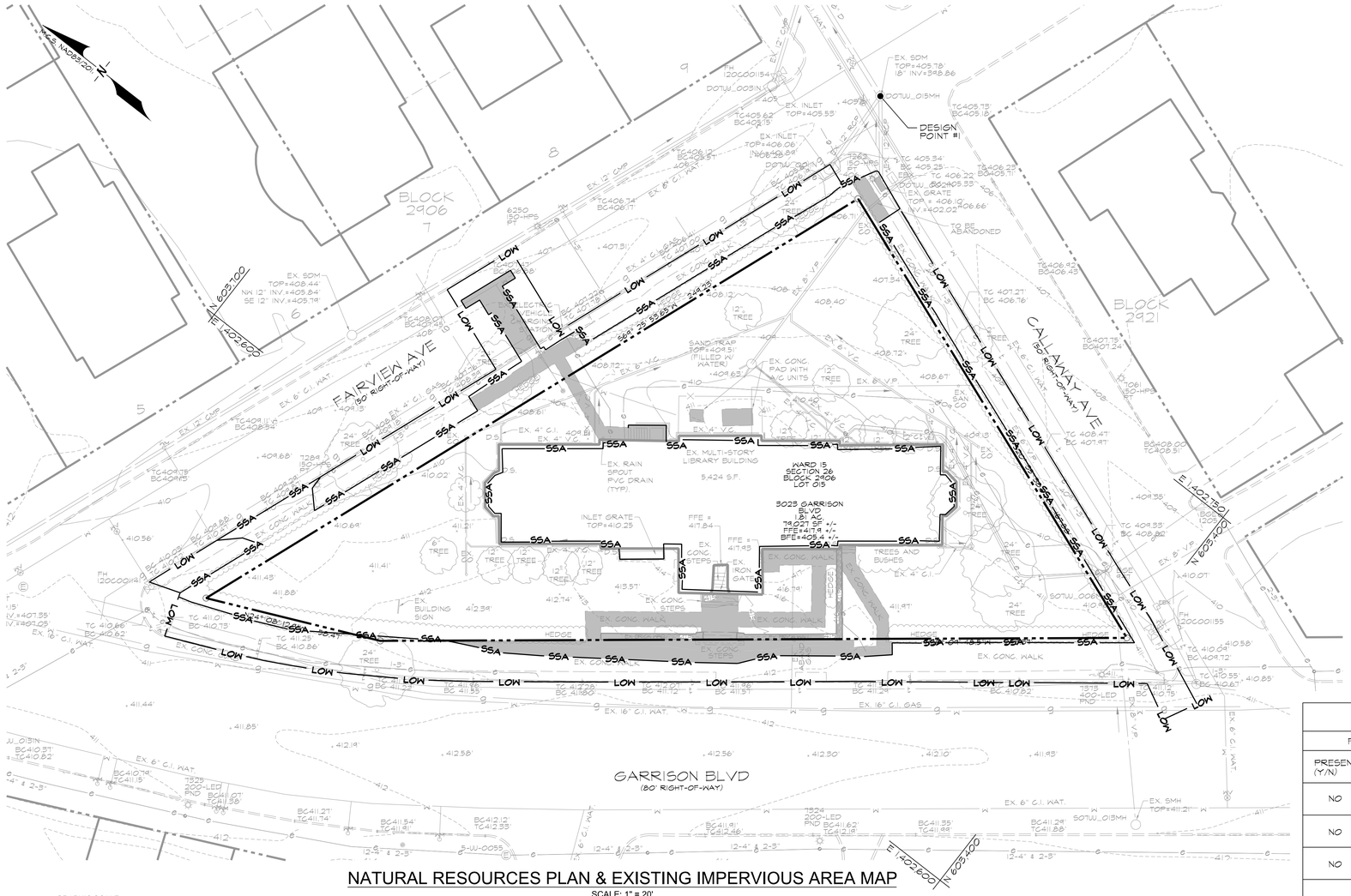

NATURAL RESOURCES PLAN & EXISTING IMPERVIOUS AREA MAP

SCALE: 1" = 20'

VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010) & NAVB8 FOR VERTICAL.

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- g EX. GAS MAIN
- t EX. COMMUNICATION
- ohe EX. OVERHEAD ELECTRIC
- e EX. ELECTRIC
- 8" SAN EX. SANITARY SEWER
- 15" RCP EX. STORM DRAIN
- 8" WATER EX. WATER
- EX. FENCE
- EX. WOODS LINE
- EX. WATER METER
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- SSA STORMWATER STUDY AREA
- LOW LIMIT OF WORK
- EX. IMPERVIOUS AREA

NATURAL RESOURCES INVENTORY

FEDERAL REGULATED			STATE REGULATED			LOCAL REGULATED		
PRESENT? (Y/N)	FEATURE	LEGEND SYMBOLOGY	PRESENT? (Y/N)	FEATURE	LEGEND SYMBOLOGY	PRESENT? (Y/N)	FEATURE	LEGEND SYMBOLOGY
NO	WETLANDS		NO	TIDAL & NON-TIDAL WETLANDS		NO	STEEP SLOPES	
NO	MAJOR WATERWAYS		NO	WETLANDS OF SPECIAL STATE		NO	HIGHLY ERODIBLE SOILS	SEE SOILS TABLE
NO	FLOODPLAINS		NO	WETLAND BUFFERS		NO	ENHANCED STREAM BUFFERS	
			NO	STREAM BUFFERS		YES	TOPOGRAPHIC SLOPES	150
			NO	PERENNIAL STREAMS		NO	SPRINGS	
			NO	FLOODPLAINS		NO	SEEPS	
			NO	FORESTS		NO	INTERMITTENT STREAMS	
			NO	FOREST BUFFERS		NO	VEGETATIVE COVER	
			NO	CRITICAL AREAS		YES	SOILS	SEE SOILS TABLE
						NO	BEDROCK/ GEOLOGY	
						YES	EXISTING DRAINAGE AREA	SEE SHEET C5.03
						NO	EXISTING SWM FACILITIES	

SOILS DATA

SYMBOL	SOIL SERIES	SLOPE	HYDRIC	K-FACTOR WHOLE SOIL	HYDROLOGIC CLASSIFICATION
26UB	MONTALTO-URBAN LAND COMPLEX	0-8%	NO	N/A	C

EXISTING CONDITION IMPERVIOUS AREA ANALYSIS

EXISTING IMPERVIOUS AREA: 2,092.5 SF. OR 0.048 AC.

SHEET INDEX

RNG#	SHEET#	SHEET NAME
1 OF 5	C5.00	NATURAL RESOURCES PLAN & EXISTING IMPERVIOUS AREA MAP
2 OF 5	C5.01	PROPOSED IMPERVIOUS AREA MAP
3 OF 5	C5.02	ENVIRONMENTAL SITE DESIGN PLAN
4 OF 5	C5.03	EXISTING QUANTITY MANAGEMENT DA MAP
5 OF 5	C5.04	PROPOSED QUANTITY MANAGEMENT DA MAP

OWNER:
MAYOR & CITY COUNCIL
100 N. HOLIDAY STREET
BALTIMORE, MD 21202
MAYOR@BALTIMORECITY.GOV
(410) 396-3100

APPLICANT:
DEPT. OF GENERAL SERVICES (DGS)
C/O JACKSON GILMAN-FORLINI
200 N. HOLLIDAY STREET
BALTIMORE, MD 21202
JACKSON.GILMAN-FORLINI@BALTIMORECITY.GOV
(410) 396-4565

DESIGNER:
MK CONSULTING ENGINEERS, LLC
1801 PORTER STREET, SUITE 401
BALTIMORE, MD 21230
RPIKE@MKCENG.COM
(667) 309-6193

10/1/2022 9:13:19 AM

BCNR# 11597

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STATE OF MARYLAND
RYAN T. PIKE
51066
PROFESSIONAL ENGINEER
2/7/25

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NATURAL RESOURCES PLAN & EXISTING IMPERVIOUS AREA MAP

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SHEET 17 OF 179

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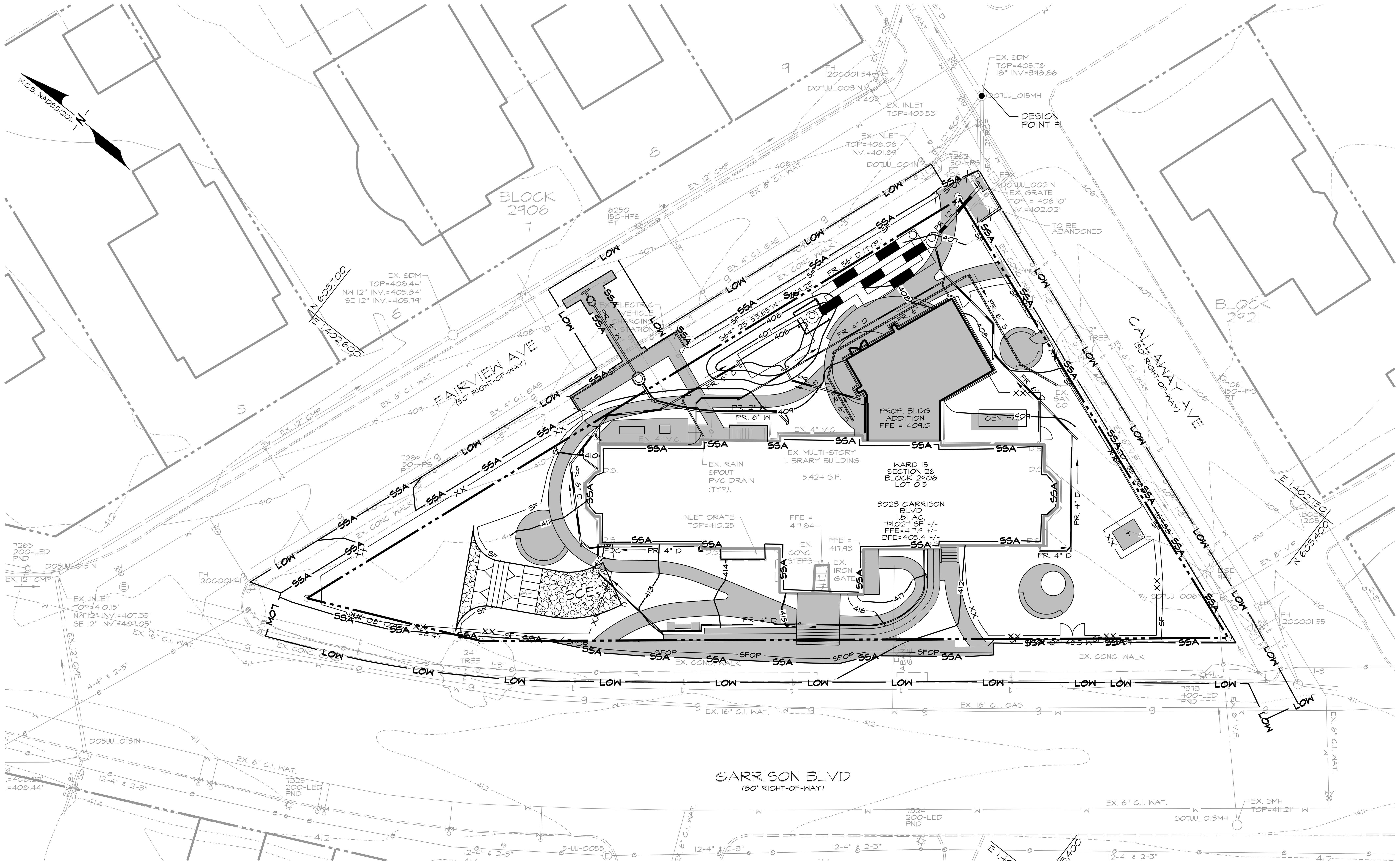


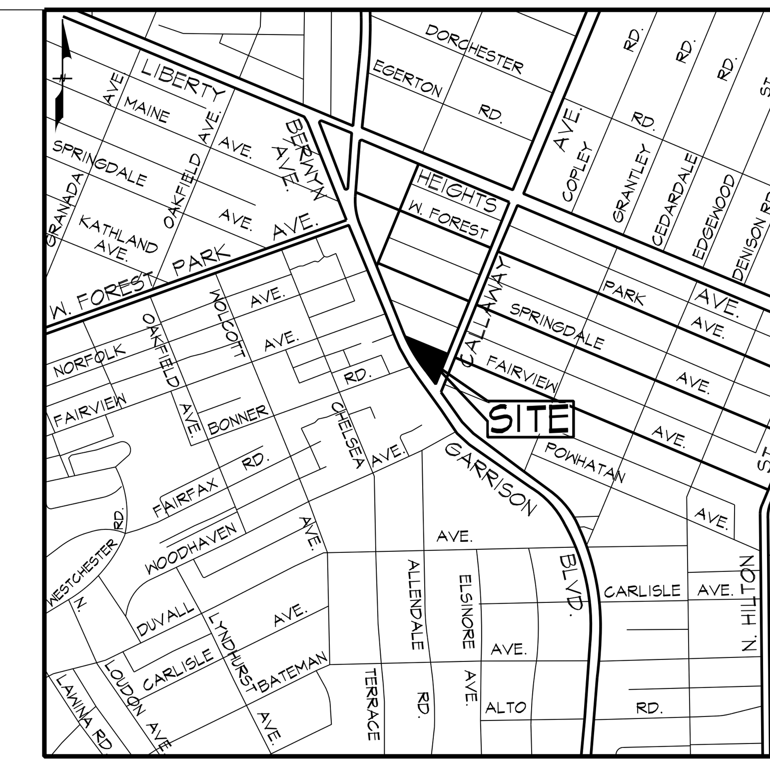
PROPOSED IMPERVIOUS AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK DATA

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LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- ADJACENT PROPERTY LINE
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- 186 — EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- g — EX. GAS MAIN
- t — EX. COMMUNICATION
- ohe — EX. OVERHEAD ELECTRIC
- e — EX. ELECTRIC
- 8" SAN. — EX. SANITARY SEWER
- 15" RCP. — EX. STORM DRAIN
- 8" WATER W — EX. WATER
- X X X — EX. FENCE
- EX. WOODS LINE
- WM — EX. WATER METER
- WV — EX. WATER VALVE
- FH — EX. FIRE HYDRANT
- SMH — EX. SANITARY MANHOLE
- MH — EX. STORM DRAIN MANHOLE
- CO — EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- 185 — PROP. INDEX CONTOUR
- 184 — PROP. INTERMEDIATE CONTOUR
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. 4" SAN. — PROP. SANITARY SEWER
- PROP. 6" W — PROP. WATER LINE
- PROP. 15" D — PROP. STORM DRAIN
- PROP. MANHOLE
- SSA — STORMWATER STUDY AREA/ LIMIT OF DISTURBANCE
- LOW — LIMIT OF WORK
- SF — SILT FENCE
- SFOP — SILT FENCE ON PAVEMENT
- PROP. IMPERVIOUS AREA

SITE DATA

SITE AREA = 0.52 +/- AC. OR 22,644 +/- S.F.
TOTAL DISTURBED AREA = 0.39 AC. OR 16,859 S.F.
TOTAL LIMIT OF WORK = 0.25 AC. OR 10,784 S.F.
TOTAL CUT = 1,284 CY
TOTAL FILL = 90 CY
CUT / FILL RATIO = 14:1

NOTE: ALL CUT/FILL QUANTITIES AS SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY AS REQUIRED BY THE MUNICIPAL SEDIMENT CONTROL AUTHORITIES INVOLVED. THE CONTRACTOR SHALLVERIFY ALL SUCH CALCULATIONS TO THEIR OWN SATISFACTION FOR BID CONTRACT PURPOSES.

PROPOSED CONDITION IMPERVIOUS AREA ANALYSIS

PROPOSED IMPERVIOUS AREA: 6,936.2 SF. OR 0.159 AC.

OWNER:
MAYOR & CITY COUNCIL
100 N. HOLIDAY STREET
BALTIMORE, MD 21202
MAYOR@BALTIMORECITY.GOV
(410) 396-3100

APPLICANT:
DEPT. OF GENERAL SERVICES (DGS)
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(667) 309-6193

10/10/2022 9:13:19 AM

BCNR# 11597

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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 51066, EXPIRATION DATE 06-07-2025

ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH

WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET
PSC #
Sheet Issue Date: 02/07/2025

Revisions:
No. Date Description

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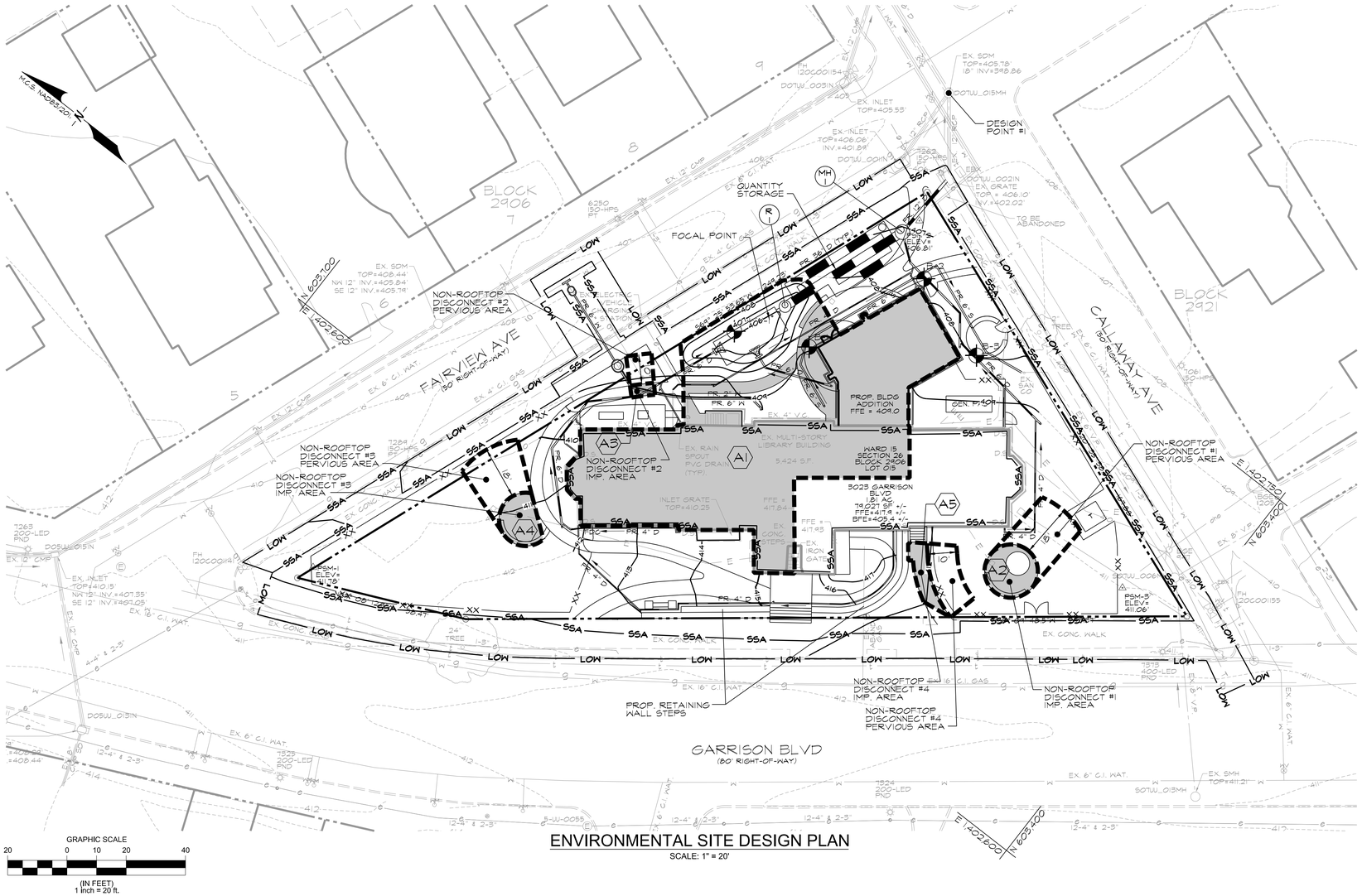
PROPOSED IMPERVIOUS AREA MAP

C5.01

19060



ENVIRONMENTAL SITE DESIGN PLAN
SCALE: 1" = 20'

VICINITY MAP
SCALE: 1" = 1000'

BENCHMARK DATA
THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010) & NAVB8 FOR VERTICAL.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,551.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,555.83047	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,693.91987	411.06'	IRON REBAR AND CAP

LEGEND
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- 185 — EX. INDEX CONTOUR
- 186 — EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- g — EX. GAS MAIN
- t — EX. COMMUNICATION
- ohe — EX. OVERHEAD ELECTRIC
- e — EX. ELECTRIC
- 8" SAN — EX. SANITARY SEWER
- 15" RCP — EX. STORM DRAIN
- 8" WATER — EX. WATER
- X X X — EX. FENCE
- EX. WOODS LINE
- AM — EX. WATER METER
- EX. WATER VALVE
- FH — EX. FIRE HYDRANT
- SMH — EX. SANITARY MANHOLE
- MH — EX. STORM DRAIN MANHOLE
- CO — EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- 185 — PROP. INDEX CONTOUR
- 184 — PROP. INTERMEDIATE CONTOUR
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. 4" SAN. — PROP. SANITARY SEWER
- PROP. 6" W — PROP. WATER LINE
- PROP. 15" D — PROP. STORM DRAIN
- PROP. MANHOLE
- SSA — STORMWATER STUDY AREA
- LOW — LIMIT OF WORK
- DRAINAGE AREA BOUNDARY
- PROP. IMPERVIOUS AREA TREATED

SITE IMPERVIOUS AREA REQUIRING TREATMENT (I_{ART})		SF	AC
A	EX. IMP. AREA TREATED BY EXISTING WATER QUALITY FACILITY IMPACTED BY WORK	0	0
B	EXISTING IMPERVIOUS AREA WITHIN SSA	1,930.2	0.044
C	PROPOSED IMPERVIOUS AREA WITHIN SSA	6,959.2	0.159
D	NEW IMPERVIOUS AREA = (C - B) IF REDEVELOPMENT, ELSE = C	6,959.2	0.159
E	REDEVELOPMENT IMPERVIOUS AREA = (0.5 x (B-A)) IF REDEVELOPMENT, ELSE = 0	0	0
F	TOTAL IMPERVIOUS AREA TO TREAT (A + D + E)	6,959.2	0.159
G	TOTAL IMPERVIOUS AREA TREATED BY SWM	5,913.7	0.136
H	FEE PAID IN LIEU OR VARIANCE TREATMENT IMPERVIOUS AREA	1,022.5	0.023
I	TOTAL IMPERVIOUS AREA ACCOUNTED (G + H)	6,959.2	0.159

STORMWATER MANAGEMENT STORAGE REQUIREMENTS

REQUIREMENT	VOLUME REQUIRED	VOLUME PROVIDED	NOTES
ESD$_v$	1,060 C.F. 589 C.F. (@ Pe = 1.0")	1,090.2 C.F.	MET USING FOCAL POINT AND FOUR (4) NON-ROOFTOP DISCONNECTS
Re$_v$	77 C.F.	0 C.F.	POOR SOILS AND VARIABLE GROUNDWATER DO NOT ALLOW FOR INFILTRATION
Cp$_v$	----	----	MET BY PROVIDING ESD$_v$ AT TARGET Pe

FACILITY DESIGN SUMMARY TABLE

PRACTICE	DIMENSIONS	DRAINAGE AREA	PROVIDED I_{wq}	ESD$_v$ TARGET/ MIN. REQUIRED (C.F.)	STORAGE VOLUME PROVIDED ESD$_v$ (C.F.)	TREATMENT VOLUME CREDITED, ESD$_v$	Re$_v$ PROVIDED	TARGET 'Pe'/ MIN. REQ'D 'Pe'	'Pe' PROVIDED	USED FOR QUANTITY?
FOCAL POINT (DA 'A1')	22' x 8.6' (18" MEDIA)	0.155 AC.	0.123 AC.	859 C.F. (MIN. VOL. @ Pe=1.0" =430 C.F.)	261.4 C.F.	1,046 C.F.	———	2.00"/1.00"	2.43"	NO
NON-ROOFTOP DISCONNECT #1 (DA 'A2')	18' IMP PATH 18' DISCONN.	0.005 AC.	0.005 AC.	———	———	16 C.F.	———	———	1.00"	NO
NON-ROOFTOP DISCONNECT #2 (DA 'A3')	4' IMP PATH 10' DISCONN.	0.001 AC.	0.001 AC.	———	———	2.6 C.F.	———	———	1.00"	NO
NON-ROOFTOP DISCONNECT #3 (DA 'A4')	18' IMP PATH 18' DISCONN.	0.004 AC.	0.004 AC.	———	———	15.7 C.F.	———	———	1.00"	NO
NON-ROOFTOP DISCONNECT #4 (DA 'A5')	7' IMP PATH 10' DISCONN.	0.003 AC.	0.003 AC.	———	———	9.9 C.F.	———	———	1.00"	NO
UNDERGROUND PIPE STORAGE (QUANTITY)	34'x12'x3.68' (1,225 C.F.)	0.155 AC.	0.123 AC.	———	———	———	———	———	———	YES
TOTAL PROVIDED	———	———	0.136 AC.	———	261.4 C.F.	1,090.2 C.F.	———	———	1.87"	———
TOTAL REQUIRED	———	———	0.13 AC.	1,060 C.F.	———	———	77 C.F.	1.80"/1.00"	———	———

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STATE OF MARYLAND
RYAN T. PIKE
21066
PROFESSIONAL ENGINEER
2/7/25

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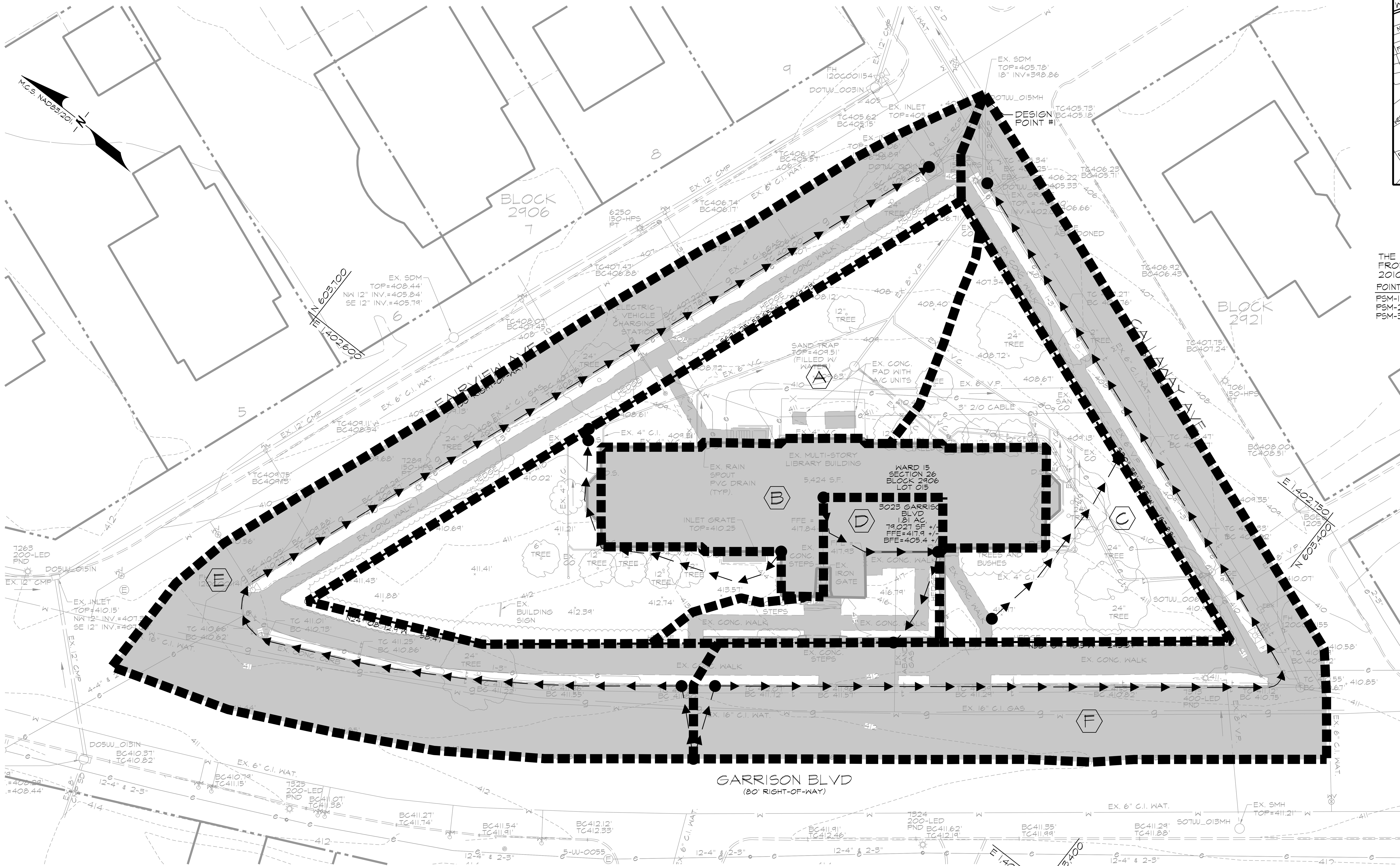
ENVIRONMENTAL SITE DESIGN PLAN

C5.02
SHEET 19 OF 179

19060



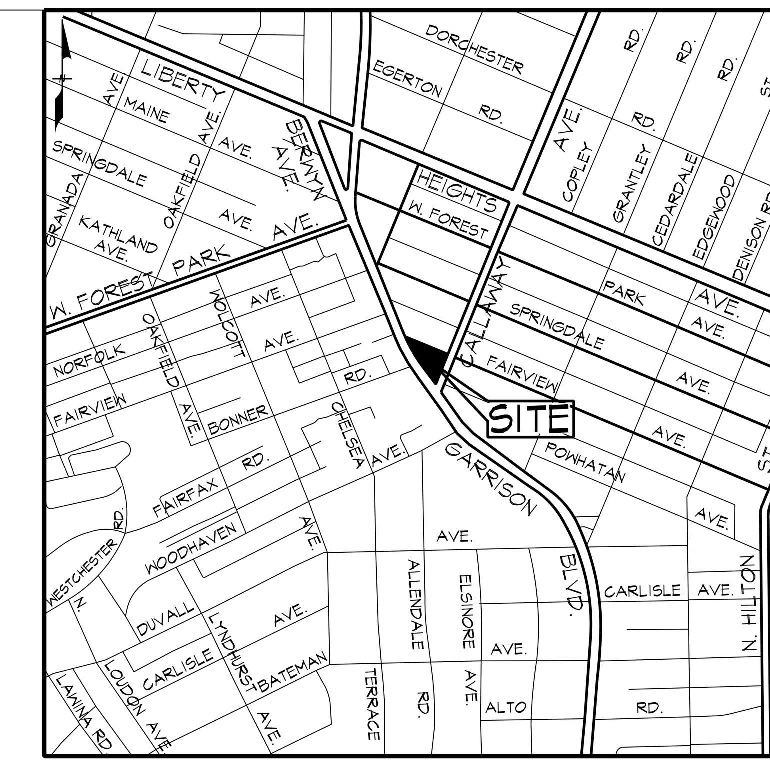
EXISTING QUANTITY MANAGEMENT DRAINAGE AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

SCALE: 1" = 1000'

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PSM-3	603,423.59427	1,402,693.97987	411.06'	IRON REBAR AND CAP

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SET BACK LINE
- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS MAIN
- EX. COMMUNICATION
- EX. OVERHEAD ELECTRIC
- EX. ELECTRIC
- EX. SANITARY SEWER
- EX. STORM DRAIN
- EX. WATER
- EX. FENCE
- EX. WOODS LINE
- EX. WATER METER
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- EXISTING DRAINAGE AREA BOUNDARY
- TC PATH — TIME OF CONCENTRATION
- DRAINAGE AREA LABEL
- EX. IMPERVIOUS AREA

DRAINAGE AREA SUMMARY

	DA	Tc (HRS)	DA (ACRES)	CURVE NUMBER	Q_1 (CFS)	Q_{10} (CFS)	Q_{100} (CFS)
DESIGN POINT 1	A	0.179	0.22	75	0.2	0.8	1.3
	B	0.10	0.10	98	0.4	0.7	0.9
	C	0.13	0.14	75	0.1	0.5	0.8
	D	0.10	0.06	92	0.3	0.6	0.8
	E	0.10	0.34	93	1.0	2.1	3.0
	F	0.10	0.28	95	0.9	1.8	2.5
	TOTAL	———	1.14	88	2.8	6.2	9.2

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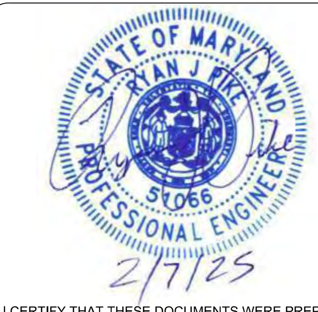

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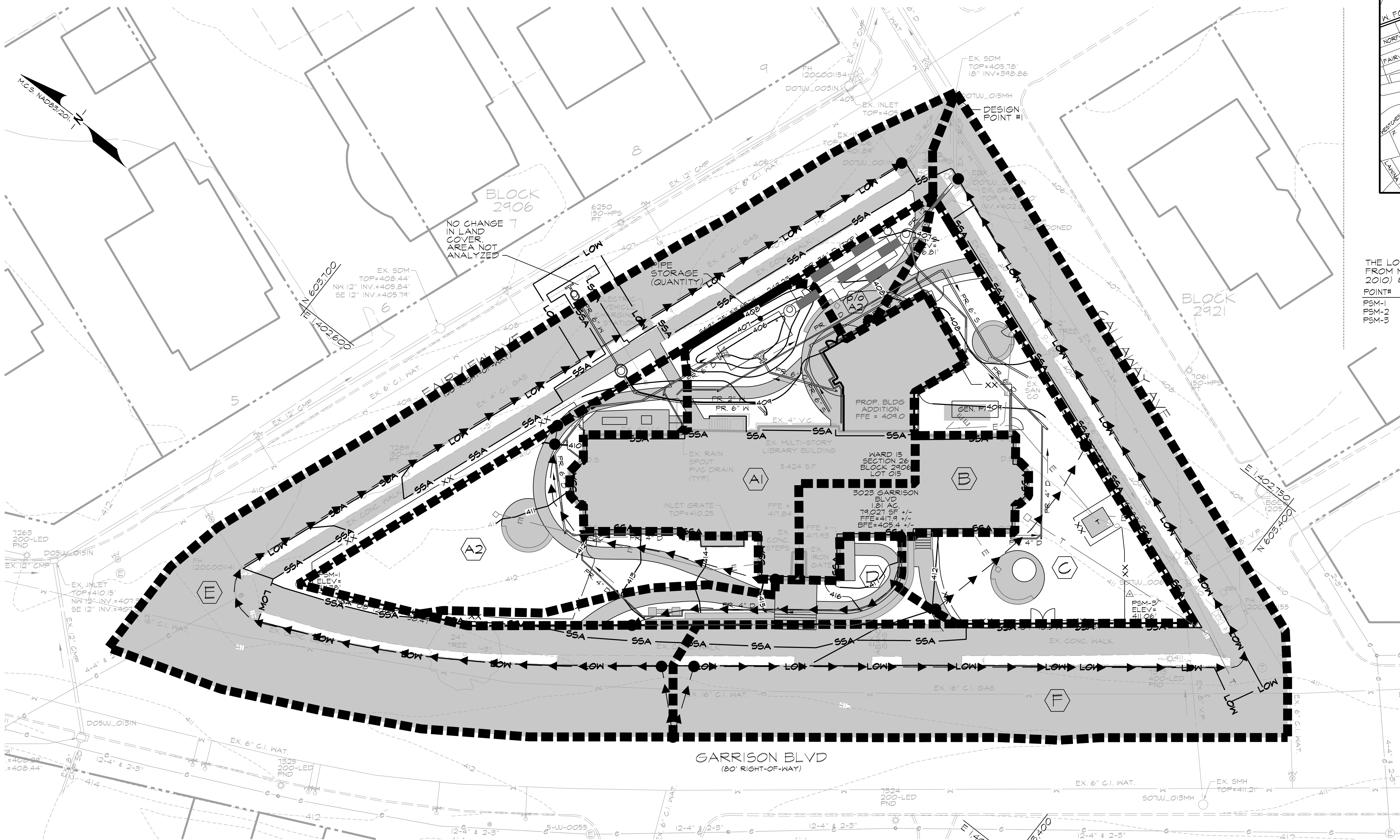
EXISTING QUANTITY DRAINAGE AREA MAP

C5.03
SHEET 20 OF 179
19060



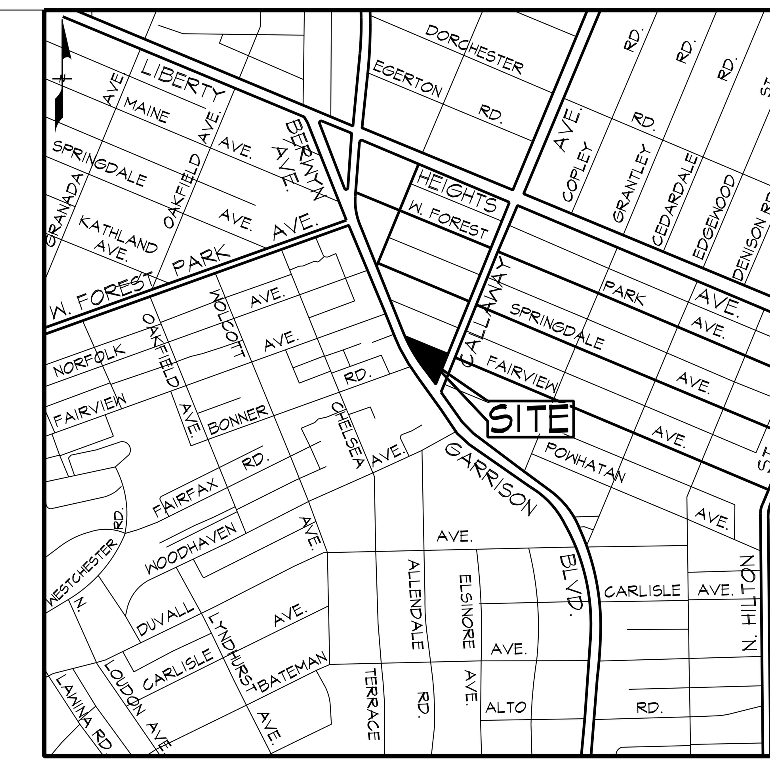
PROPOSED QUANTITY MANAGEMENT DRAINAGE AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



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LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. INDEX CONTOUR (185)
- EX. INTERMEDIATE CONTOUR (186)
- EX. CURB AND GUTTER
- EX. GAS MAIN (g)
- EX. COMMUNICATION (t)
- EX. OVERHEAD ELECTRIC (ohe)
- EX. ELECTRIC (e)
- EX. SANITARY SEWER (3" SAN.)
- EX. STORM DRAIN (15" RCP.)
- EX. WATER (8" WATER)
- EX. FENCE
- EX. WOODS LINE
- EX. WATER METER (WM)
- EX. WATER VALVE (WV)
- EX. FIRE HYDRANT (FH)
- EX. SANITARY MANHOLE (SMH)
- EX. STORM DRAIN MANHOLE (MH)
- EX. CLEANOUT (CO)
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- PROP. INDEX CONTOUR (185)
- PROP. INTERMEDIATE CONTOUR (184)
- PROP. RETAINING WALL
- PROP. CONCRETE WALK
- PROP. SANITARY SEWER (PROP. 4" SAN.)
- PROP. WATER LINE (PROP. 6" W)
- PROP. STORM DRAIN (PROP. 15" D)
- PROP. MANHOLE
- PROPOSED DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION (TC PATH)
- DRAINAGE AREA LABEL (A)
- STORMWATER STUDY AREA (SSA)
- LIMIT OF WORK (LOW)
- PROPOSED IMPERVIOUS AREA

DRAINAGE AREA SUMMARY (PROPOSED CONDITIONS)

	DA	Tc (HRS)	DA (ACRES)	CURVE NUMBER	Q_1 (CFS)	Q_{10} (CFS)	Q_{100} (CFS)
DESIGN POINT 1	A1	0.10	0.15	93	0.1	0.3	0.9
	A2	0.162	0.14	79	0.2	0.6	0.9
	B	0.10	0.05	98	0.3	0.6	0.9
	C	0.151	0.13	78	0.2	0.5	0.8
	D	0.10	0.05	89	0.2	0.6	0.8
	E	0.10	0.34	94	1.0	2.1	3.0
	F	0.10	0.28	95	0.9	1.8	2.5
	TOTAL	——	1.14	90	2.8	6.2	9.1

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PROPOSED QUANTITY DRAINAGE AREA MAP

C5.04

19060

FOCAL POINT FACILITY #1						
ITEM	DESIGN	AS-BUILT	COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
OUTFALL PIPE SIZE	12" HDPE		N/A	N/A	N/A	N/A
BASIN DIMENSIONS (L x W x D)	21' X 8' X 3.29'		N/A	N/A	N/A	N/A
BOTTOM OF BASIN	EL. = 406.00		N/A	N/A	N/A	N/A
MULCH LAYER	3" DEPTH, EL. = 405.75		N/A	N/A	N/A	N/A
PLANTING MEDIA	18" DEPTH, EL. = 404.25		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	PEA GRAVEL, 6" DEPTH EL.= 403.75		N/A	N/A	N/A	N/A
R-TANK DEPTH, INV.	0.79', INV.= 402.96		N/A	N/A	N/A	N/A
BOTTOM OF STONE RESERVOIR	EL. = 402.71		N/A	N/A	N/A	N/A
STRUCTURE R-1	RIM EL. = 407.00		603,571.80	1,402,698.89		
STABILIZATION & LANDSCAPING	SEE LANDSCAPE PLANS		N/A	N/A	N/A	N/A
TOTAL SURFACE AREA OF PLANTING SOIL	139.8 SF.		N/A	N/A	N/A	N/A
TOTAL TREATMENT VOLUME PROVIDED	1,046 CF.		N/A	N/A	N/A	N/A

AS-BUILT CERTIFICATION STORMWATER MANAGEMENT

I HEREBY CERTIFY THAT FOCAL POINT FACILITY #1 SHOWN ON THIS SHEET WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATION.

PRINT NAME	ADDRESS	PHONE NUMBER
SIGNATURE	DATE	LICENSE NO.

FOCAL POINT SEQUENCE OF CONSTRUCTION

1. NOTIFY BALTIMORE COUNTY DEPARTMENT OF EPS (SWM SECTION) AT (410) 877-3768 AND ENGINEER PREPARING AS-BUILT DRAWINGS, AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. INSTALLATION OF FOCAL POINT SHALL NOT TAKE PLACE UNTIL ALL CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
3. FLUSH ALL STORM DRAINS LEADING TO THE FACILITY PRIOR TO BEGINNING CONSTRUCTION.
4. EXCAVATE BOTTOM OF FOCAL POINT TO PROPOSED GRADE SHOWN ON SWM PLANS.
   A. AS-BUILTING ENGINEER TO VERIFY DEPTH OF FOCAL POINT
5. INSTALL IMPERVIOUS LINER (IF APPLICABLE).
6. INSTALL NO. 57 STONE, R-TANK AND OBSERVATION/MAINTENANCE PORT(S).
7. INSTALL 6" PEA GRAVEL BRIDGING LAYER BETWEEN STONE LAYER AND FILTER MEDIA LAYER AS SHOWN ON SWM PLANS. INSTALL FILTER MEDIA LAYER AS SHOWN ON THE SWM PLANS.
8. PROVIDE PERMANENT STABILIZATION AND PLANTING AS SHOWN ON THE SWM PLANS.

FOCAL POINT INSPECTION SCHEDULE

REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION

- DURING EXCAVATION STAGE
- DURING PLACEMENT OF R-TANK
- DURING PLACEMENT OF OBSERVATION/MAINTENANCE PORTS.
- DURING PLACEMENT OF GEOTEXTILES AND ALL FILTER MEDIA/STONE.
- DURING CONSTRUCTION OF ANY APPURTENANT CONVEYANCE SYSTEMS SUCH AS DIVERSION STRUCTURES, INLETS, OUTLETS, AND FLOW DISTRIBUTION STRUCTURES.
- UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION, AND BEFORE ALLOWING RUNOFF TO ENTER THE FOCAL POINT.

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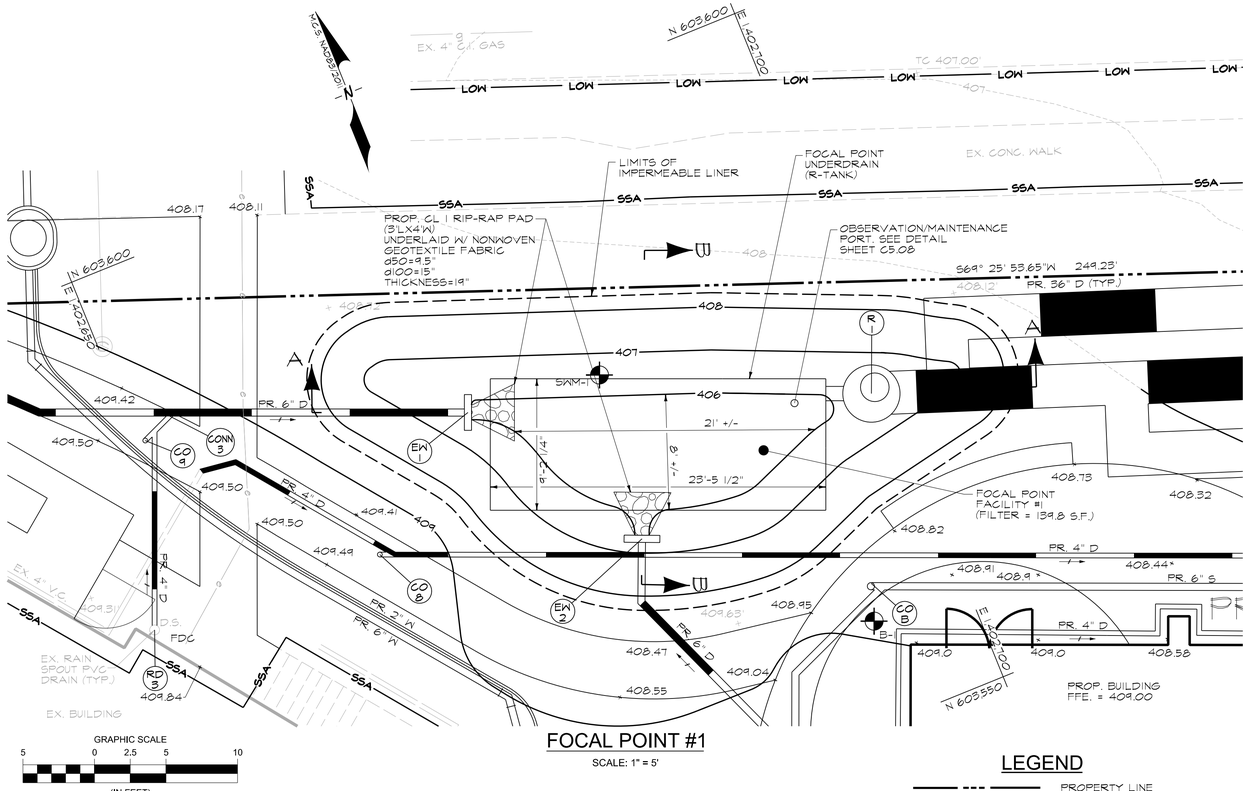
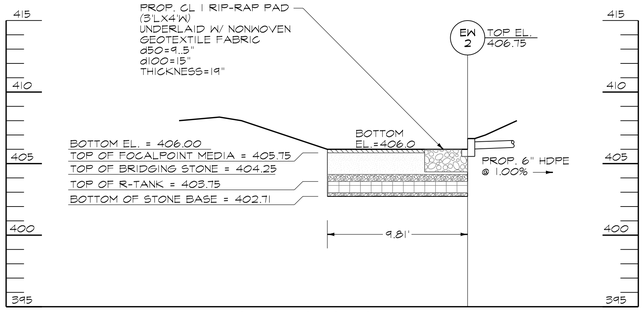
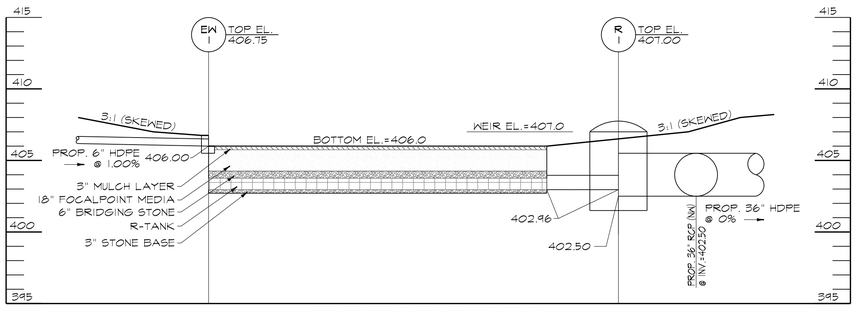


GRAPHIC SCALE
5 0 2.5 5 10
(IN FEET)
1 inch = 5 ft.

FOCAL POINT #1
SCALE: 1" = 5'



FACILITY SECTION 'B-B'
SCALE: HORIZ. 1" =5'
VERT. 1" = 5'



FACILITY SECTION 'A-A'
SCALE: HORIZ. 1" =5'
VERT. 1" = 5'

LEGEND

- PROPERTY LINE
- EX. CURB AND GUTTER
- EX. HEDGE LINE
- 185 EX. INDEX CONTOUR
- 184 EX. INTERMEDIATE CONTOUR
- E EX. ELECTRIC
- G EX. GAS MAIN
- EX. 4" V.C. EX. STORM DRAIN
- 185 PROP. INDEX CONTOUR
- 184 PROP. INTERMEDIATE CONTOUR
- PR. 6" D PROP. STORM DRAIN
- PR. 6" W PROP. WATER
- PROP. WATER METER
- PR. 6" S PROP. SANITARY
- PROP. SIDEWALK
- PROP. MANHOLE
- PROP. CLEANOUT
- 409.37 PROP. SPOT ELEVATION
- SSA STORMWATER STUDY AREA
- LOW LIMIT OF WORK
- SAM-1 SOIL BORING

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STATE OF MARYLAND
RYAN T. PIKE
21066
PROFESSIONAL ENGINEER
2/7/25

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 21066, EXPIRATION DATE 06-07-2025

ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET
PSC #

Sheet Issue Date: 02/07/2025

Revisions:

No.	Date	Description

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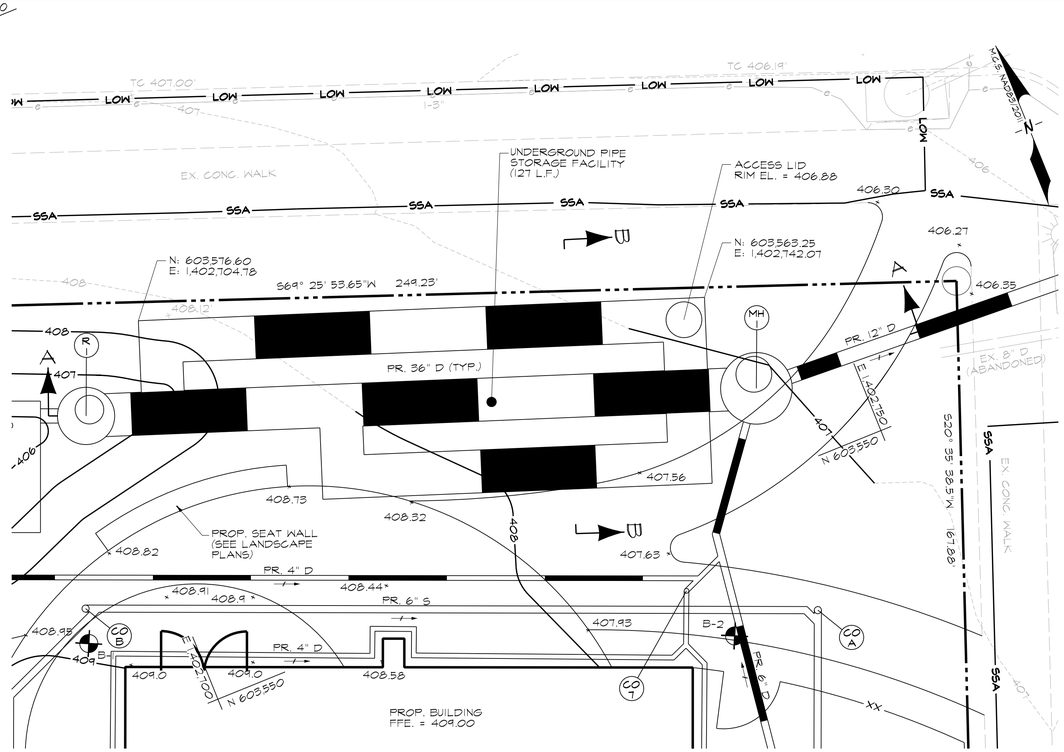
STORMWATER MANAGEMENT FACILITY PLAN

C5.05
SHEET 22 OF 179

19060

LEGEND

- PROPERTY LINE
- EX. CURB AND GUTTER
- EX. HEDGE LINE
- 185 — EX. INDEX CONTOUR
- 184 — EX. INTERMEDIATE CONTOUR
- e — EX. ELECTRIC
- g — EX. GAS MAIN
- EX. 4" VC — EX. STORM DRAIN
- 185 — PROP. INDEX CONTOUR
- 184 — PROP. INTERMEDIATE CONTOUR
- PR. 6" D — PROP. STORM DRAIN
- PR. 6" S — PROP. SANITARY
- PROP. SIDEWALK
- PROP. MANHOLE
- PROP. CLEANOUT
- 409.37 — PROP. SPOT ELEVATION
- SSA — STORMWATER STUDY AREA
- LOW — LIMIT OF WORK
- B-2 — SOIL BORING



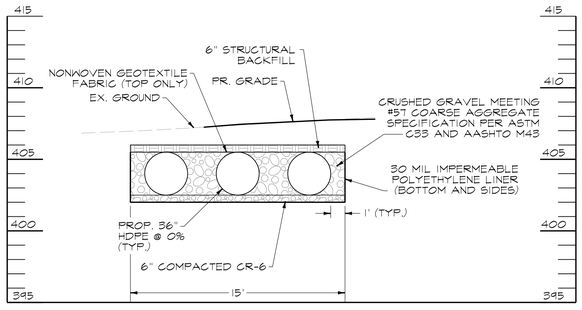
FOCAL POINT #1

SCALE: 1" = 5'

AS-BUILT CERTIFICATION STORMWATER MANAGEMENT

I HEREBY CERTIFY THAT THE UNDERGROUND PIPE STORAGE FACILITY SHOWN ON THIS SHEET WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.

PRINT NAME	ADDRESS	PHONE NUMBER
SIGNATURE	DATE	LICENSE NO.

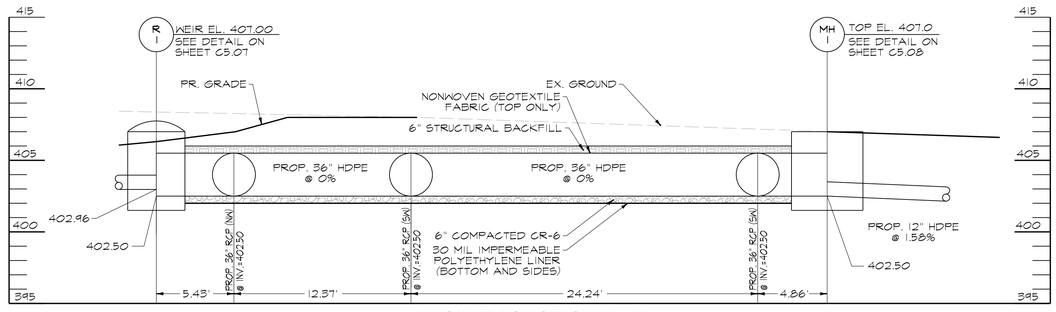


FACILITY SECTION 'B-B'

SCALE: HORIZ. 1" =5'
VERT. 1" = 5'

UNDERGROUND QUANTITY PIPE FACILITY

ITEM	DESIGN	AS-BUILT	COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
OUTFALL PIPE SIZE	12" HDPE		N/A	N/A	N/A	N/A
STORAGE PIPE SIZE (DIAMETER)	36"		N/A	N/A	N/A	N/A
INVERT OF PIPES	402.50		N/A	N/A	N/A	N/A
CONTROL STRUCTURE MH-1	5' DIAM.		603,571.80	1,402,698.89		



FACILITY SECTION 'A-A'

SCALE: HORIZ. 1" =5'
VERT. 1" = 5'

OWNER:
MAYOR & CITY COUNCIL
100 N. HOLIDAY STREET
BALTIMORE, MD 21202
MAYOR@BALTIMORECITY.GOV
(410) 396-3100

APPLICANT:
DEPT. OF GENERAL SERVICES (DGS)
C/O JACKSON GILMAN-FORLINI
200 N. HOLLIDAY STREET
BALTIMORE, MD 21202
JACKSON.GILMAN-FORLINI@BALTIMORECITY.GOV
(410) 396-4565

DESIGNER:
MK CONSULTING ENGINEERS, LLC
1801 PORTER STREET, SUITE 401
BALTIMORE, MD 21230
RPIKE@MKCENG.COM
(667) 309-6193

GRAPHIC SCALE
5 0 2.5 5 10
(IN FEET)
1 Inch = 5 ft.

10/1/2022 3:13:19 AM

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STATE OF MARYLAND
RYAN T. PIKE
51066
PROFESSIONAL ENGINEER
2/7/25

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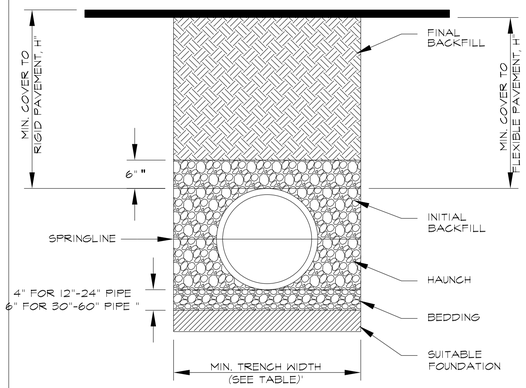
STORMWATER MANAGEMENT QUANTITY FACILITY PLAN

C5.06
SHEET 23 OF 179

19060



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	38"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
60"	96"

MINIMUM RECOMMENDED COVER ("H") BASED ON VEHICLE LOADING CONDITIONS**		
	SURFACE LIVE LOADING CONDITION	
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LAOD) *
12" - 48"	12"	48"
60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

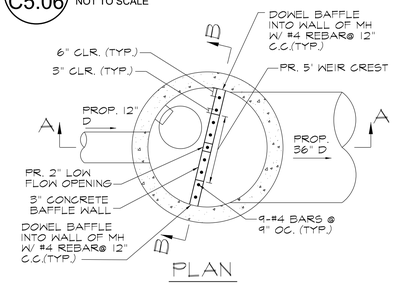
MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS					
PIPE DIA.	CLASS I		CLASS II		CLASS III
	COMPACTED	DUMPED	95%	90%	95%
4"	37	18	25	18	18
6"	44	20	29	20	21
8"	32	15	22	15	16
10"	38	18	26	18	18
12"	35	17	24	17	17
15"	38	17	25	17	18
18"	36	17	24	17	17
24"	28	13	20	13	14
30"	28	13	20	13	14
36"	26	12	18	13	13
42"	23	11	16	11	11
48"	25	11	17	11	12
60"	25	11	17	11	12

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

DESCRIPTION	SOIL CLASSIFICATION		MIN. COMPACTION REQUIRED (STD. PROCTOR DENSITY (%)
	ASTM D2321	ASTM D2321	
GRADED OR CRUSHED STONE CRUSHED GRAVEL	CLASS I	———	DUMPED
WELL-GRADED SAND, GRAVELS, AND GRAVEL/SAND MIXTURES; POORLY GREADED SAND, GRAVELS AND GRAVEL/SAND MIXTURES; LITTLE OR NO FINES	CLASS II	GW GP SW SP	85%
SILTY OR CLAYEY GRAVELS, GRAVELS/SAND/SILT OR GRAVELS AND CLAY MIXTURES, SILTY OR CLAYEY SANDS, SAND/CLAY OR SAND/SILT MIXTURES	CLASS III	GM GC SM SC	90%
INORGANIC SILTS AND LOW TO MEDIUM PLASTICITY CLAYS; GRAVELY, SANDY, OR SILTY CLAYS; SOME FINE SANDS	CLASS IVA	ML CL	MATERIAL NOT RECOMMENDED

BACKFILL NOTES:
1. ONLY NATIVE SOILS MEETING CLASS I, II, OR III AS DESCRIBED IN THE TABLE, ARE ACCEPTABLE BACKFILL MATERIALS.
2. CLASS I MATERIALS CAN BE DUMPED AROUND PIPE. LIGHTLY TAMP OR KNIFE TO ENSURE VOIDS ARE ELIMINATED.
3. NON-COHESIVE SAND, SAND/GRAVEL MIXES AND OTHER CLASS II OR III MATERIALS MUST BE COMPACTED TO REMOVE VOIDS.
4. LAYER HEIGHTS SHOULD NOT EXCEED ON-HALF THE PIPE DIAMETER. LAYER HEIGHTS MAY ALSO NEED TO BE REDUCED TO ACCOMMODATE COMPACTION METHOD.

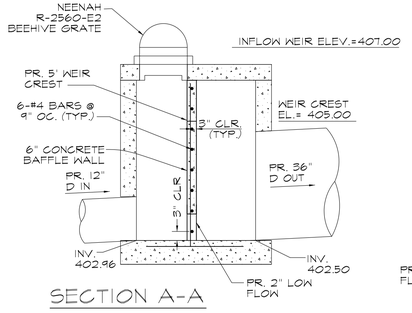
1 C5.06 HDPE PIPE TRENCH INSTALLATION DETAIL
NOT TO SCALE



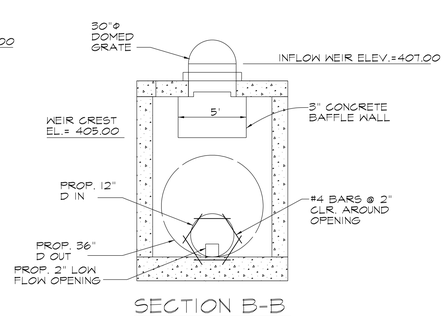
PLAN

AS-BUILT TABLE		
ITEM	DESIGN	AS-BUILT
12" D INV. IN	402.96	
36" D INV. OUT	402.50	
WEIR CREST EL.	405.00	
WEIR CREST LENGTH	3"	
BAFFLE WALL LENGTH	5'-0"	
BAFFLE WALL HEIGHT	4'-9"	

NOTE:
SEE BALT. STD BC 383.07 FOR ADDITIONAL INFORMATION

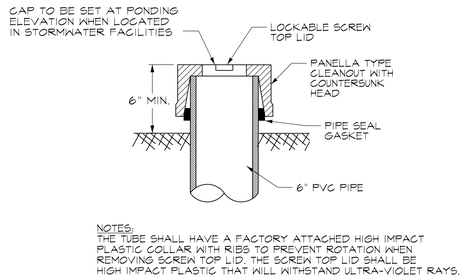


SECTION A-A



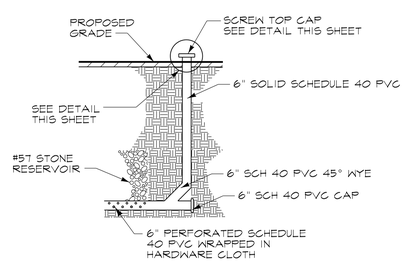
SECTION B-B

6 C5.06 BAFFLE DETAIL FOR MH-1
NOT TO SCALE

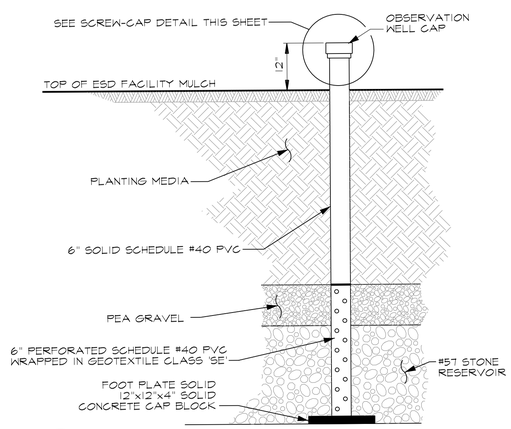


NOTES:
THE TUBE SHALL HAVE A FACTORY ATTACHED HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRA-VIOLET RAYS.

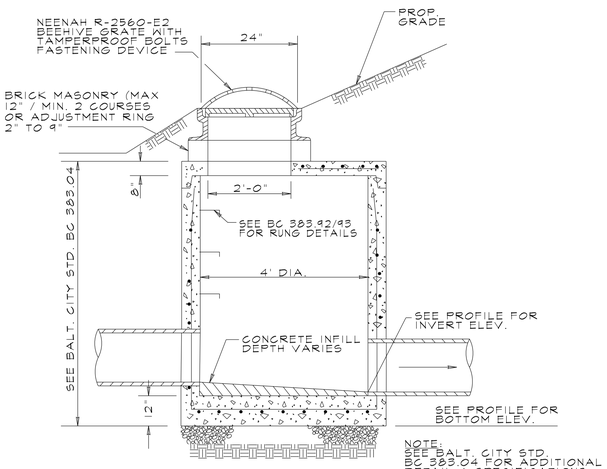
2 C5.06 SCREW TOP CAP DETAIL
NOT TO SCALE



3 C5.06 SWM FACILITY CLEANOUT DETAIL
NOT TO SCALE



4 C5.06 SWM OBERSERVATION WELL DETAIL
NOT TO SCALE



NOTE:
SEE BALT. CITY STD. BC 383.04 FOR ADDITIONAL DETAIL & SPECIFICATIONS.

5 C5.06 48" MANHOLE W/ DOMED GRATE (R-1)
NOT TO SCALE

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STATE OF MARYLAND — RYAN T. FIFE — 51066 — PROFESSIONAL ENGINEER
2/7/25

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STORMWATER MANAGEMENT DETAILS

C5.07
SHEET 24 OF 179
19060

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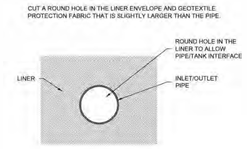
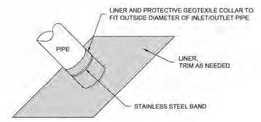
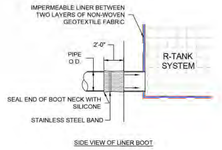


END VIEW OF PIPE/LINER CONNECTION

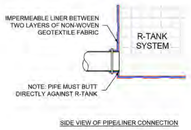


LINER BOOT W/ PROTECTIVE GEOTEXTILE FABRIC LAYER



SIDE VIEW OF LINER BOOT

AFTER LINER IS CUT AND PIPE INSTALLED, SLIDE BOOT AGAINST LINER AND SECURE WITH STAINLESS STEEL BAND, THEN BOND BOOT TO LINER AND SEAL END OF BOOT WITH SILICONE. REPLACE ANY GEOTEXTILE PROTECTION FABRIC REMOVED DURING BOOT INSTALLATION PROCESS.



SIDE VIEW OF PIPE/LINER CONNECTION

FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE VISIT: www.fergusongss.com

R-TANK IMPERMEABLE LINER (TANK) PIPE BOOT DETAIL

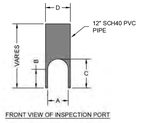
DRAWN BY	JKB
DATE	8/31/2024
SHEET NO.	1 of 1

R-TANK INSPECTION PORT DIMENSIONS

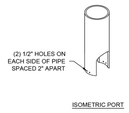
UNIT TYPE	DOGHOUSE BOTTOM WIDTH ("A")	DOGHOUSE VERTICAL LENGTH ("B")*	DOGHOUSE OPENING HEIGHT ("C")	PORT DIAMETER ("D")
HD	10"	9"	14"	12"
SD	10"	3"	8"	12"
UD	8"	7"	12"	10"
XD	10"	VARIES**	VARIES**	12"

* PORTS ARE SUPPLIED WITH A STANDARD DOGHOUSE LENGTH OF 9". THE OPENING LENGTH SHALL BE REDUCED IN THE FIELD TO CORRESPOND WITH THE SPECIFIED PRODUCT TYPE.
** VERTICAL HEIGHTS VARY BASED ON THE STACKING HEIGHT OF THE XD SYSTEM. THE TOP OF ANY OPENING SHOULD NOT EXCEED THE TOP OF THE STACK HEIGHT.

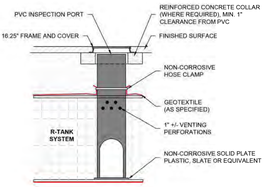
NOTES
1. THE INSPECTION PORT IS USED IN THE ACCESS MODULE TO INSPECT THE LEVEL OF SEDIMENT ACCUMULATION AND PERFORM ROUTINE MAINTENANCE.
2. MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.
3. R-TANK[HC], R-TANK[SD], R-TANK[HD] AND R-TANK[XD] MAY BE USED IN TRAFFIC APPLICATIONS. SEE TRAFFIC LOADING DETAIL FOR MINIMUM & MAXIMUM COVER REQUIREMENTS.
4. IF INSPECTION PORT IS LOCATED IN A NON-TRAFFIC AREA, A PLASTIC CAP CAN BE USED IN LIEU OF A FRAME AND COVER WITH CONCRETE COLLAR.



FRONT VIEW OF INSPECTION PORT



ISOMETRIC PORT



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R-TANK INSPECTION AND MAINTENANCE PORT DETAIL

DRAWN BY	JKB
DATE	8/13/2024
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STATE OF MARYLAND
RYAN PHILLIPS
51066
PROFESSIONAL ENGINEER
8/29/25

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STORMWATER MANAGEMENT DETAILS

C5.08
SHEET 25 OF 179

19060

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FOCAL POINT STORM WATER FACILITY SPECIFICATIONS

A. PLANTS

1. PLANTS MUST BE COMPATIBLE WITH THE HPMBS MEDIA AND THE ASSOCIATED HIGHLY VARIABLE HYDROLOGIC REGIME. PLANTS ARE TYPICALLY FACULTATIVE WITH FIBROUS ROOTS SYSTEMS SUCH A NATIVE GRASSES AND SHRUBS.

2. SUPPLIER SHALL PROVIDE A REGIONALIZED LIST OF ACCEPTABLE PLANTS.

3. ALL PLANT MATERIAL SHALL COMPLY WITH THE TYPE AND SIZE REQUIRED BY THE APPROVED DRAWINGS AND SHALL BE ALIVE AND FREE OF OBVIOUS SIGNS OF DISEASE.

B. MULCH

1. MULCH, TYPICALLY DOUBLE SHREDDED HARDWOOD (NON-FLOATABLE), SHALL COMPLY WITH THE TYPE AND SIZE REQUIRED BY THE APPROVED DRAWINGS, AND SHALL BE SCREENED TO MINIMIZE FINES.

C. BIOFILTRATION MEDIA

1. BIOLOGICALLY ACTIVE BIOFILTRATION MEDIA SHALL BE VISUALLY INSPECTED TO ENSURE APPROPRIATE VOLUME, TEXTURE AND CONSISTENCY WITH THE APPROVED DRAWINGS, AND MUST BEAR A BATCH NUMBER MARKING FROM THE SUPPLIER, WHICH CERTIFIES PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE (100 IN/HR). A THIRD PARTY LABORATORY TEST MUST BE PROVIDED TO CERTIFY THE 100 IN/HR RATE.

2. WITHIN 90 DAYS AFTER PROJECT COMPLETION, THE INFILTRATION RATE SHALL BE CONFIRMED AT THE SUPPLIER?S EXPENSE, BY A WETTED CONDITION HYDRAULIC CONDUCTIVITY TEST.

A. FAILURE TO PASS THIS TEST WILL RESULT IN REMOVAL AND REPLACEMENT OF ALL MEDIA IN THE SYSTEM AT NO COST TO THE PROJECT OWNER/OPERATOR.

B. TEST MUST UTILIZE THE EQUIPMENT AND FOLLOW THE STANDARD OPERATING PROCEDURES FOUND IN THE HARRIS COUNTY TEXAS MANUAL ENTITLED, LOW IMPACT DEVELOPMENT & GREEN INFRASTRUCTURE DESIGN CRITERIA FOR STORM WATER MANAGEMENT (2011).

C. REPLACEMENT MEDIA, IF REQUIRED, MUST BE TAKEN FROM A DIFFERENT BATCH THAN THE ORIGINAL.

3. SUPPLIER SHALL PROVIDE, AT NO ADDITIONAL COST TO THE PROJECT OWNER/OPERATOR, MAINTENANCE OF THE BIOFILTRATION SYSTEM FOR A PERIOD OF ONE YEAR.

4. POLLUTANT REMOVAL PERFORMANCE, COMPOSITION AND CHARACTERISTICS OF THE BIOFILTRATION MEDIA MUST MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS AS DEMONSTRATED BY TESTING ACCEPTABLE TO THE PROJECT ENGINEER:

POLLUTANT	REMOVAL EFFICIENCY
TSS	>80%
PHOSPHORUS	>-60%
NITROGEN	>-48%
SAND - FINE	<5%
SAND - MEDIUM	10%-15%
SAND - COARSE	15%-25%
SAND - VERY COARSE	40%-45%
GRAVEL	10%-20%
INFILTRATION RATE	>100 INCHES PER HOUR
PEAT MOSS*	5%-15%

LISTED BY ORGANIC MATERIALS REVIEW INSTITUTE
100% NATURAL PEAT (NO COMPOSTED, SLUDGE, YARD OR LEAF WASTE) TOTAL CARBON >85%
CARBON TO NITROGEN RATIO 15:1 TO 23:1 LIGNIN CONTENT 49% TO 52%
HUMIC ACID >18%
PH 6.0 TO 7.0
MOISTURE CONTENT 30% TO 50%
95% TO 100% PASSING 2.0MM SIEVE
> 80% PASSING 1.0MM SIEVE

D. SEPARATION MESH

1. SEPARATION MESH SHALL BE COMPOSED OF HIGH-TENACITY MONOFILAMENT POLYPROPYLENE YARNS THAT ARE WOVEN TOGETHER TO PRODUCE AN OPEN MESH GEOTEXTILE WHICH SHALL BE INERT TO BIOLOGICAL DEGRADATION AND RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS AND ACIDS. THE MESH SHALL MEET OR EXCEED THE FOLLOWING CHARACTERISTICS:

PROPERTIES	TEST METHOD	UNIT	MIN AVE ROLL VALUE	
			MD	CD
TENSILE STRENGTH	ASTM D4595	KN/M (LBS/FT)	21 (1440)	25.3 (1733)
CREEP REDUCED STRENGTH	ASTM D5262	KN/M (LBS/FT)	6.9 (471)	8.3 (566)
LONG TERM ALLOWABLE DESIGN LOAD	GRI GG-4	KN/M (LBS/FT)	5.9 (407)	7.2 (490)
UV RESISTANCE (AT 500 HOURS)	-	% STRENGTH RETAINED	90	
APERTURE SIZE (MACHINE DIRECTION)	-	MM (IN)	2 (0.08)	
APERTURE SIZE (CROSS MACHINE DIRECTION)	-	MM (IN)	2 (0.08)	
MASS/UNIT AREA	ASTM D5261	G/M² (OZ/YD²)	197 (5.8)	

E. BRIDGING STONE

1. BRIDGING STONE SHALL BE 3/8A PEA GRAVEL, OR OTHER DIAMETER SIZED TO PREVENT MIGRATION OF FILTER MEDIA, AS SPECIFIED BY SUPPLIER.

2. STONE MUST BE WASHED AND FREE FROM SEDIMENT, SOIL AND CONTAMINANTS.

III. DELIVERY, STORAGE AND HANDLING

A. PROTECT ALL MATERIALS FROM DAMAGE DURING DELIVERY AND STORE UV SENSITIVE MATERIALS UNDER TARP TO PROTECT FROM SUNLIGHT INCLUDING ALL PLASTICS, WHEN TIME FROM DELIVERY TO INSTALLATION EXCEEDS ONE WEEK. STORAGE SHOULD OCCUR ON SMOOTH SURFACES, FREE FROM DIRT, MUD AND DEBRIS.

B. BIOFILTRATION MEDIA SHALL BE SEGREGATED FROM ANY OTHER AGGREGATE MATERIALS AND SHALL BE PROTECTED AGAINST CONTAMINATION, INCLUDING CONTAMINATION FROM ANY STORMWATER RUNOFF FROM AREAS OF THE SITE WHICH ARE NOT STABILIZED.

IV. SUBMITTALS

A. PRODUCT DATA

1. SUBMIT SUPPLIER?S PRODUCT DATA AND APPROVED INSTALLATION MANUAL AS WELL AS SUPPLIER?S OPERATIONS AND MAINTENANCE MANUAL FOR THE SYSTEM. IT WILL BE THE RESPONSIBILITY OF THE SYSTEM OWNER/OPERATOR OR THEIR CONTRACTOR TO ENSURE THE SYSTEM IS OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL.

B. CERTIFICATION

1. SUPPLIER SHALL SUBMIT A LETTER OF CERTIFICATION THAT THE COMPLETE SYSTEM MEETS OR EXCEEDS ALL TECHNICAL AND PACKAGING REQUIREMENTS. BIOFILTRATION MEDIA PACKAGING MUST BEAR A BATCH NUMBER MARKING FROM THE SUPPLIER WHICH MATCHES A LETTER FROM THE SUPPLIER CERTIFYING PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE.

C. DRAWINGS

1. SUPPLIER SHALL PROVIDE DIMENSIONAL DRAWINGS INCLUDING DETAILS FOR CONSTRUCTION, MATERIALS, SPECIFICATIONS AND PIPE CONNECTIONS.

D. WARRANTY

1. SUPPLIER SHALL PROVIDE A WARRANTY FOR ALL COMPONENTS OF THE HPMBS FOR A PERIOD OF ONE YEAR PROVIDED THE UNIT IS INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL. IMPROPER OPERATION, MAINTENANCE OR ACCIDENTAL OR ILLEGAL ACTIVITIES (I.E. DUMPING OF POLLUTANTS, VANDALISM, ETC.) WILL VOID THE WARRANTY. BIOFILTRATION MEDIA SHALL BE WARRANTED TO PASS THE POST-INSTALLATION INFILTRATION TEST DESCRIBED IN THIS DOCUMENT.

E. DESIGN COMPUTATIONS

1. THE HPMBS MUST BE SIZED USING A VOLUME BASED SIZING CRITERIA AND DEMONSTRATE, USING A SCS STORMWATER MODELING SOFTWARE/SPREADSHEET CALCULATOR THAT THE REQUIRED WATER QUALITY VOLUME (DEFINED BY THE ENGINEER OF RECORD) PASSES THROUGH THE HPMBS PRIOR TO ACTIVATION OF THE OVERFLOW DEVICE (SET NO LOWER HIGHER THAN SIX (6) INCHES ABOVE THE TOP ELEVATION OF THE HPMBS (TYPICALLY DEFINED AS TOP OF MULCH)). DESIGN COMPUTATIONS MUST BE PROVIDED AS PART OF THE SUBMITTAL PROCESS. SIZING BASED SOLELY ON A FILTER SURFACE AREA TO DRAINAGE AREA RATIO METHOD WILL NOT BE ACCEPTED.

F. SUBSTITUTIONS

1. ANY PROPOSED EQUAL ALTERNATIVE PRODUCT SUBSTITUTION TO THIS SPECIFICATION MUST BE SUBMITTED FOR REVIEW AND APPROVED PRIOR TO BID OPENING. REVIEW PACKAGE SHOULD INCLUDE THIRD PARTY REVIEWED PERFORMANCE DATA OF THE BIOFILTRATION MEDIA THAT INCLUDES SATURATED CONDUCTIVITY MEASUREMENTS AND POLLUTANT REMOVAL EFFICIENCY. POLLUTANT REMOVAL DATA MUST FOLLOW SPECIFIED PROTOCOLS. ALL COMPONENTS MUST MEET OR EXCEED QUALITY ASSURANCE AND PERFORMANCE CRITERIA INDICATED HEREIN.

V. PROJECT CONDITIONS

A. REVIEW SUPPLIER?S RECOMMENDED INSTALLATION PROCEDURES AND COORDINATE INSTALLATION WITH OTHER WORK AFFECTED, SUCH AS GRADING, EXCAVATION, UTILITIES, CONSTRUCTION ACCESS AND EROSION CONTROL TO PREVENT ALL NON- INSTALLATION RELATED CONSTRUCTION TRAFFIC OVER THE COMPLETED HPMBS.

B. COLD WEATHER

1. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST.

2. DO NOT BUILD ON FROZEN GROUND OR WET, SATURATED OR MUDDY SUBGRADE.

3. CARE MUST BE TAKEN WHEN HANDLING PLASTICS WHEN AIR TEMPERATURE IS AT 40 DEGREES OR BELOW AS PLASTIC BECOMES BRITTLE.

C. PROTECT PARTIALLY COMPLETED INSTALLATION AGAINST DAMAGE FROM OTHER CONSTRUCTION TRAFFIC WHEN WORK IS IN PROGRESS AND FOLLOWING COMPLETION OF BACKFILL BY ESTABLISHING A PERIMETER WITH HIGHLY VISIBLE CONSTRUCTION TAPE, FENCING, OR OTHER MEANS UNTIL CONSTRUCTION IS COMPLETE.

D. SOIL STABILIZATION OF THE SURROUNDING SITE MUST BE COMPLETE BEFORE THE BIOFILTRATION SYSTEM CAN BE BROUGHT ONLINE. SOIL STABILIZATION OCCURS WHEN 90% OF THE SITE HAS BEEN PAVED OR VEGETATED. TEMPORARY EROSION CONTROL AND/OR SEDIMENTATION PREVENTION MEASURES SHALL BE IMPLEMENTED TO REDUCE THE POSSIBILITY OF SEDIMENTS BEING TRANSPORTED INTO THE BIOFILTRATION SYSTEM PRIOR TO FULL STABILIZATION OF THE SITE. SIGNIFICANT SEDIMENT LOADS CAN DAMAGE THE HPBMS AND LEAD TO FAILURE IF NOT PREVENTED OR REMEDIATED PROMPTLY.

VI. PRODUCTS

A. ACCEPTABLE HPBMS

FOCALPOINT HIGH PERFORMANCE BIOFILTRATION SYSTEM

B. ACCEPTABLE SYSTEM SUPPLIER

CONVERGENT WATER TECHNOLOGIES, INC.
(800) 711-5428
WWW.CONVERGENTWATER.COM

C. AUTHORIZED VALUE ADDED RESELLER

ACF ENVIRONMENTAL 2831 CARDWELL ROAD
RICHMOND, VA 23234
(800 448-3636
WWW.ACFENVIRONMENTAL.COM

VII. EXECUTION

A. EXCAVATION AND BACKFILL

1. BASE OF EXCAVATION SHALL BE SMOOTH, LEVEL AND FREE OF LUMPS OR DEBRIS, AND COMPACTED UNLESS INFILTRATION OF STORM WATER INTO SUBGRADE IS DESIRED. A THIN LAYER (3") OF COMPACTED BASE MATERIAL IS RECOMMENDED TO ESTABLISH A LEVEL WORKING PLATFORM (MAY NOT BE NEEDED IN SANDY SOILS). IF THE BASE OF THE EXCAVATION IS PUMPING OR APPEARS EXCESSIVELY SOFT, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED FOR ADVICE. IN MANY CASES, A STABILIZATION GEOTEXTILE AND 6A OF COMPACTABLE MATERIAL THAT DRAINS WELL WILL BE SUFFICIENT TO AMEND THE BEARING CAPACITY OF THE SOIL.

2. MOST APPLICATIONS REQUIRE 8 OZ NON-WOVEN GEOTEXTILE OR EQUIVALENT NONWOVEN GEOTEXTILE WITH A NOMINAL WEIGHT OF 8 OZ PER SQUARE YARD TO LINE THE EXCAVATION TO SEPARATE IN SITU SOILS AND THE HPMBS.

3. SPECIFIED BACKFILL MATERIAL MUST BE FREE FROM LUMPS, DEBRIS AND ANY SHARP OBJECTS THAT COULD PENETRATE THE GEOTEXTILE. MATERIAL IS USED FOR BACKFILL ALONG THE SIDES OF THE SYSTEM AS INDICATED IN ENGINEERING DETAIL DRAWINGS.

B. INSPECTION

1. EXAMINE PREPARED EXCAVATION FOR SMOOTHNESS, COMPACTION AND LEVEL. CHECK FOR PRESENCE OF HIGH WATER TABLE, WHICH MUST BE KEPT AT LEVELS BELOW THE BOTTOM OF THE UNDER DRAIN STRUCTURE AT ALL TIMES. IF THE BASE IS PUMPING OR APPEARS EXCESSIVELY SOFT, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED FOR ADVICE.

2. INSTALLATION COMMENCEMENT CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE. IF EXISTING CONDITIONS ARE FOUND TO BE UNSATISFACTORY, CONTACT PROJECT MANAGER OR ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.

VIII. CLEANUP AND PROTECTION DURING ONGOING CONSTRUCTION ACTIVITY

A. PERFORM CLEANING DURING THE INSTALLATION AND UPON COMPLETION OF THE WORK.

B. REMOVE FROM SITE ALL EXCESS MATERIALS, DEBRIS, AND EQUIPMENT. REPAIR ANY DAMAGE TO ADJACENT MATERIALS AND SURFACES RESULTING FROM INSTALLATION.

C. IF SURROUNDING DRAINAGE AREA IS NOT FULLY STABILIZED, A PROTECTIVE COVERING OF GEOTEXTILE FABRIC SHOULD BE SECURELY PLACED TO PROTECT THE BIOFILTRATION MEDIA.

D. CONSTRUCTION PHASE EROSION AND SEDIMENTATION CONTROLS SHALL BE PLACED TO PROTECT THE INLET(S) TO THE BIOFILTRATION SYSTEM. EXCESSIVE SEDIMENTATION, PARTICULARLY PRIOR TO ESTABLISHMENT OF PLANTS MAY DAMAGE THE HPMBS.

E. STRICTLY FOLLOW SUPPLIER?S GUIDELINES WITH RESPECT TO PROTECTION OF THE HPMBS BETWEEN INSTALLATION AND COMMISSIONING PHASES.

IX. COMMISSIONING

A. COMMISSIONING SHOULD ONLY BE CARRIED OUT ONCE THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED. IF COMMISSIONING MUST BE CARRIED OUT SOONER, IT IS IMPERATIVE THAT APPROPRIATE EROSION AND SEDIMENT CONTROLS BE PLACED TO PREVENT THE ENTRY OF EXCESSIVE SEDIMENT/POLLUTANT LOADS INTO THE SYSTEM.

B. COMMISSIONING ENTAILS REMOVING THE PROTECTIVE COVERING FROM THE BIOFILTRATION MEDIA, PLANTING THE PLANT MATERIAL IN ACCORDANCE WITH THE APPROVED DRAWINGS, AND PLACING MULCH IF SPECIFIED.

1. DIG PLANTING HOLES THE DEPTH OF THE ROOT BALL AND TWO TO THREE TIMES AS WIDE AS THE ROOT BALL. WIDE HOLES ENCOURAGE HORIZONTAL ROOT GROWTH THAT PLANTS NATURALLY PRODUCE.

2. WITH TREES, YOU MUST ENSURE YOU ARE NOT PLANTING TOO DEEP. DON?T DIG HOLES DEEPER THAN ROOT BALLS. THE MEDIA SHOULD BE PLACED AT THE ROOT COLLAR, NOT ABOVE THE ROOT COLLAR, OTHERWISE THE STEM WILL BE VULNERABLE TO DISEASE.

3. STRICTLY FOLLOW SUPPLIER?S PLANTING GUIDANCE.

C. COVER THE EXPOSED ROOT BALL TOP WITH MULCH. MULCH SHOULD NOT TOUCH THE PLANT BASE BECAUSE IT CAN HOLD TOO MUCH MOISTURE AND INVITE DISEASE AND INSECTS. EVENLY PLACE 3 INCHES OF DOUBLE-SHREDDED HARDWOOD MULCH (IF SPECIFIED) ON THE SURFACE OF THE MEDIA.

D. PLANTINGS SHALL BE WATERED-IN AT INSTALLATION AND TEMPORARY IRRIGATIONS SHALL BE PROVIDED, IF SPECIFIED.

X. USING THE HPMBS

A. MAINTENANCE REQUIREMENTS

1. EACH CORRECTLY INSTALLED HPMBS IS TO BE MAINTAINED BY THE SUPPLIER FOR A MINIMUM PERIOD OF ONE YEAR. THE COST OF THIS SERVICE IS TO BE INCLUDED IN THE SUPPLIER?S PRICE OF THE SYSTEM.

2. ANNUAL MAINTENANCE CONSISTS OF TWO (2) SCHEDULED VISITS UNLESS OTHERWISE SPECIFIED.

3. EACH MAINTENANCE VISIT CONSISTS OF THE FOLLOWING:

1. COMPLETE SYSTEM INSPECTION
2. REMOVAL OF FOREIGN DEBRIS, SILT, PLANT MATERIAL, TRASH AND MULCH (IF NEEDED)
3. EVALUATION OF BIOFILTRATION MEDIA
4. EVALUATION OF PLANT HEALTH
5. INSPECTION OF UNDERDRAIN/STORAGE SYSTEM VIA OBSERVATION/MAINTENANCE PORT
6. PROPERLY DISPOSE OF ALL MAINTENANCE REFUSE ITEMS (TRASH, MULCH, ETC.)
7. TAKE PHOTOGRAPHS DOCUMENTING PLANT GROWTH AND GENERAL SYSTEM HEALTH
8. UPDATE AND STORE MAINTENANCE RECORDS
9. TO ENSURE LONG TERM PERFORMANCE OF THE HPMBS, CONTINUING ANNUAL MAINTENANCE SHOULD BE PERFORMED PER THE SUPPLIER?S OPERATIONS AND MAINTENANCE MANUAL.

4. IF SEDIMENT ACCUMULATES BEYOND AN ACCEPTABLE LEVEL IN THE UNDERDRAIN/STORAGE SYSTEM, IT WILL BE NECESSARY TO FLUSH THE UNDERDRAIN. THIS CAN BE DONE BY PUMPING WATER INTO THE OBSERVATION/MAINTENANCE PORT OR ADJACENT OVERFLOW STRUCTURE, ALLOWING THE TURBULENT FLOWS THROUGH THE UNDERDRAIN TO RE- SUSPEND THE FINE SEDIMENTS. IF MULTIPLE OBSERVATION/MAINTENANCE PORTS HAVE BEEN INSTALLED, WATER SHOULD BE PUMPED INTO EACH PORT TO MAXIMIZE FLUSHING EFFICIENCY.

SEDIMENT-LADEN WATER CAN BE PUMPED OUT AND EITHER CAPTURED FOR DISPOSAL OR FILTERED THROUGH A DIRTBAG FILTER BAG, IF PERMITTED BY THE LOCALITY.

ENGINEER'S CERTIFICATION STORMWATER MANAGEMENT

I HEREBY CERTIFY THAT THE PLAN HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE MINIMUM STANDARDS OF THE BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS REQUIREMENTS AND SPECIFICATIONS.

MARIANNE K. CRAMPTON — 3300 CLIPPER MILL RD., STE. 201 — 667-309-6193
PRINT NAME — ADDRESS — PHONE NUMBER

SIGNATURE — DATE — 25058 LICENSE No.

AS-BUILT CERTIFICATION STORMWATER MANAGEMENT

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THESE PLANS WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.

PRINT NAME — ADDRESS — PHONE NUMBER

SIGNATURE — DATE — LICENSE No.

DEVELOPER'S / LANDOWNERS CERTIFICATION STORMWATER MANAGEMENT

I/WE CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) AND ON THE APPROVED SEDIMENT CONTROL DRAWING(S) WILL BE ACCOMPLISHED PURSUANT TO THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS WITHIN THIRTY (30) DAYS OF COMPLETION, BY A REGISTERED PROFESSIONAL ENGINEER.

OWNER/DEVELOPER — ADDRESS — PHONE NUMBER

SIGNATURE — DATE

MAINTENANCE & LIABILITY STORMWATER MANAGEMENT

MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITY AND APPRUTANT DRAINAGE STRUCTURES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER SHALL ALSO BE FULLY LIABLE FOR ALL DAMAGES OR INJURIES THAT MAY BE SUSTAINED BY ANY PERSON OR PROPERTY AS A RESULT OF FAILURE OR MALFUNCTION OF THE STORMWATER MANAGEMENT FACILITY AND APPURTENANCES.

OWNER/DEVELOPER — ADDRESS — PHONE NUMBER

SIGNATURE — DATE

CONTRACTOR'S 'AS-BUILT' NOTE

AS-BUILT PLANS AND CERTIFICATION ARE REQUIRED FOR THIS STORMWATER MANAGEMENT FACILITY. THESE MUST BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. BALTIMORE CITY DPW WILL NOT PERFORM THE INSPECTION OR PREPARE THE AS-BUILT PLANS OR CERTIFICATION. THE STORMWATER MANAGEMENT PERMIT SECURITY WILL NOT BE RELEASED UNTIL THE AS-BUILT PLANS AND CERTIFICATION ARE APPROVED BY BALTIMORE CITY DPW.

IN ORDER TO PREPARE THE REQUIRED AS-BUILT PLANS AND CERTIFICATION, THIS STORMWATER MANAGEMENT FACILITY MUST BE INSPECTED BY THE ENGINEER AT SPECIFIC STAGES DURING CONSTRUCTION AS REQUIRED BY THE CURRENT BALTIMORE CITY DPW STORMWATER MANAGEMENT POLICY AND DESIGN MANUAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK SHOWN ON THESE PLANS.

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5521 Research Park Drive, Suite 300, Baltimore, MD 21228 | 410-654-3790

STATE OF MARYLAND — RYAN PHILLIPS — 51066 — PROFESSIONAL ENGINEER
8/27/25

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AUGUST 29, 2025

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STORMWATER MANAGEMENT NOTES

C5.09
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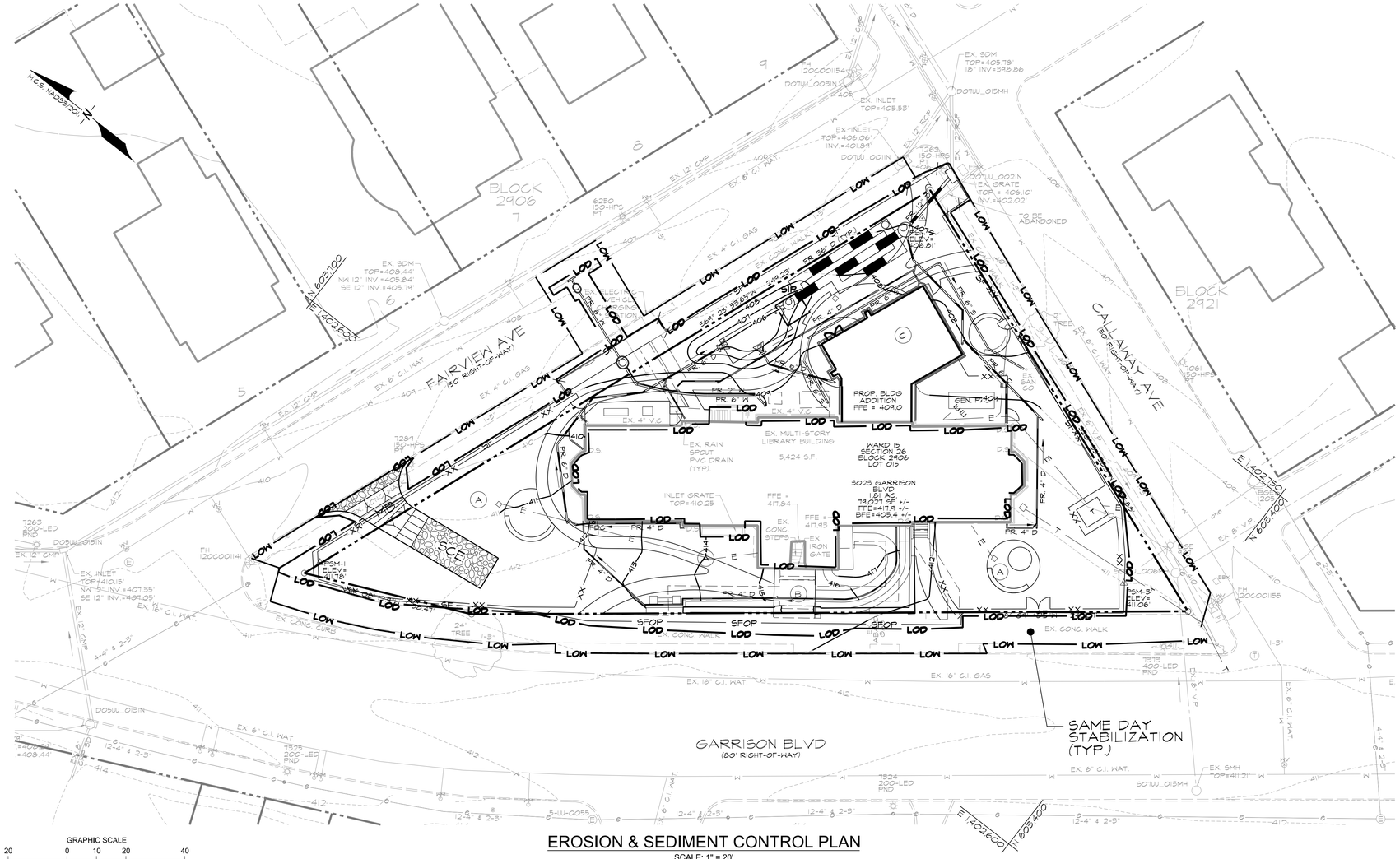

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
185	EX. INDEX CONTOUR
186	EX. INTERMEDIATE CONTOUR
	EX. CURB AND GUTTER
g	EX. GAS MAIN
t	EX. COMMUNICATION
ohc	EX. OVERHEAD ELECTRIC
e	EX. ELECTRIC
6" SAN	EX. SANITARY SEWER
15" RCP	EX. STORM DRAIN
8" WATER	EX. WATER
X X	EX. FENCE
	EX. WOODS LINE
WM	EX. WATER METER
WV	EX. WATER VALVE
FH	EX. FIRE HYDRANT
SMH	EX. SANITARY MANHOLE
STMH	EX. STORM DRAIN MANHOLE
CO	EX. CLEANOUT
GV	EX. GAS VALVE
	EX. SIGN
	EX. LIGHT POLE
	EX. TREE / BUSH
185	PROP. INDEX CONTOUR
184	PROP. INTERMEDIATE CONTOUR
	PROP. RETAINING WALL
	PROP. CONCRETE WALK
PROP. 4" SAN.	PROP. SANITARY SEWER
PROP. 6" W	PROP. WATER LINE
PROP. 15" D	PROP. STORM DRAIN
	PROP. MANHOLE
LOD	LIMIT OF DISTURBANCE
LOW	LIMIT OF WORK
SF	SILT FENCE
SFOP	SILT FENCE ON PAVEMENT
SCE	STABILIZED CONSTRUCTION ENTRANCE
SIP	STANDARD INLET PROTECTION

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE UNDER ACTIVE GRADING. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED.

NOTE TO CONTRACTOR:
EROSION AND SEDIMENT CONTROLS SHALL BE STRICTLY ENFORCED.

STABILIZATION SCHEDULE

AREA	SQ. FT.	STABILIZATION TYPE	SEQUENCE #
(A) PERVIOUS AREAS	15,522.43	SEEDING (TEMPORARY)	
	11,367.74	SEEDING (PERMANENT)	
(B) IMPERVIOUS AREAS	2,747.49	SEEDING/STONE BASE (TEMPORARY)	
	6,902.18	CONCRETE/PAVEMENT (PERMANENT)	
(C) BUILDING	1,272.48	PROPOSED BUILDING	

* AREAS TO BE VEGETATIVELY STABILIZED TO SATISFY THE 3 / 7 DAY REQUIREMENTS AS PER THE BALTIMORE CITY STANDARD EROSION AND SEDIMENT CONTROL NOTES.

EARTHWORK ANALYSIS

TOTAL LOT/SITE AREA:	0.52 AC. / 22644 +/- S.F.
TOTAL LIMIT OF DISTURBANCE:	16,858 S.F. OR 0.39 AC.
TOTAL LIMIT OF WORK:	10,784 S.F. OR 0.25 AC.
EARTHWORK:	CUT = 1,284 CY FILL = 90 CY CUT / FILL RATIO = 14:1 FILL MATERIAL SHALL BE FROM AN OFFSITE LOCATION WITH AN APPROVED SEDIMENT CONTROL PLAN & ACTIVE GRADING PERMIT. FILL MATERIAL MAY NOT BE STORED ON-SITE.

NOTE:
ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF DETERMINING PERMITTING REQUIREMENTS. SINCE FINAL EARTHWORK QUANTITIES ARE BASED ON MANY VARIABLE CONDITIONS, OVER WHICH MK CONSULTING ENGINEERS, LLC. HAS NO CONTROL, INCLUDING VARIABILITY OF SOILS, ALLOWABLE SURVEY AND CONSTRUCTION TOLERANCES AND COMPACTION RATIOS, MK CONSULTING ENGINEERS, LLC. DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF THE ESTIMATES FOR FINAL CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THEIR OWN ESTIMATES OF THE EARTHWORK QUANTITIES.

GENERAL NOTES

1. CONTRACTOR SHALL PLACE 4" MINIMUM TOPSOIL (AFTER COMPACTION), SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS ON SHEETS C6.05 & 6.06
2. THE CONTRACTOR SHALL SUBMIT SEED MIXTURE CERTIFICATION TO THE OWNER PRIOR APPLICATION.
3. FOR EROSION AND SEDIMENT CONTROL DETAILS SEE SHEET C6.03.
4. FOR EROSION AND SEDIMENT CONTROL STAB. NOTES SEE SHTS. C6.05 & C6.06.
5. FOR SEQUENCE OF CONSTRUCTION SEE SHEET ___.
6. FOR EROSION AND SEDIMENT CONTROL SECTIONS SEE SHEET C6.07

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STATE OF MARYLAND · RYAN T. FIFE · 37066 · PROFESSIONAL ENGINEER
2/7/25

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EROSION & SEDIMENT CONTROL PLAN

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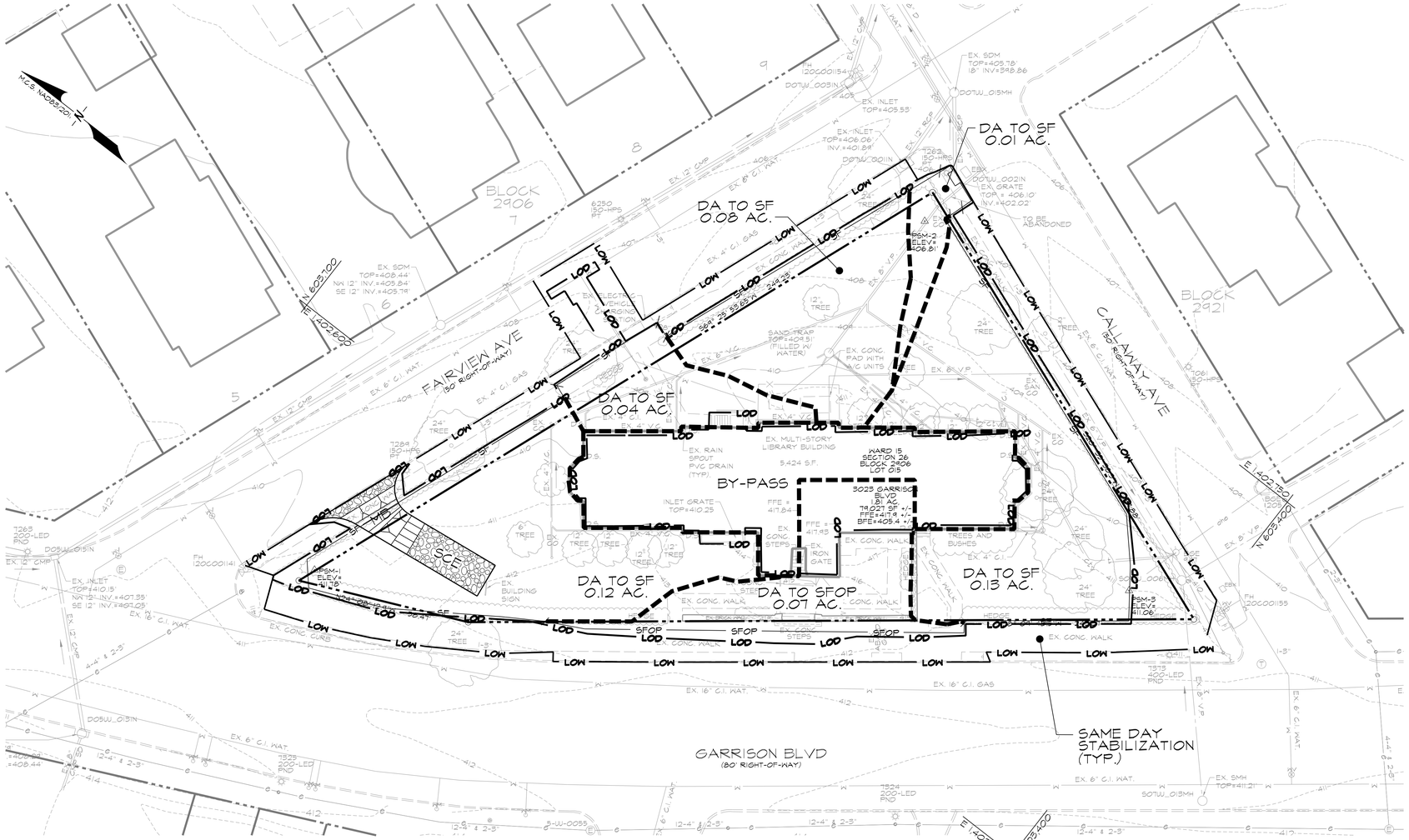

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS MAIN
- EX. COMMUNICATION
- EX. OVERHEAD ELECTRIC
- EX. ELECTRIC
- EX. SANITARY SEWER
- EX. STORM DRAIN
- EX. WATER
- EX. FENCE
- EX. HEDGE LINE
- EX. WATER METER
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. CLEANOUT
- EX. GAS VALVE
- EX. SIGN
- EX. LIGHT POLE
- EX. TREE / BUSH
- LIMIT OF DISTURBANCE
- LIMIT OF WORK
- SILT FENCE
- SILT FENCE ON PAVEMENT
- STABILIZED CONSTRUCTION ENTRANCE
- DRAINAGE AREA BOUNDARY

EROSION & SEDIMENT CONTROL EXISTING DRAINAGE AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

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RYAN T. FITZ
51066
PROFESSIONAL ENGINEER
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EROSION & SEDIMENT CONTROL EXISTING DA MAP

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SHEET 28 OF 179

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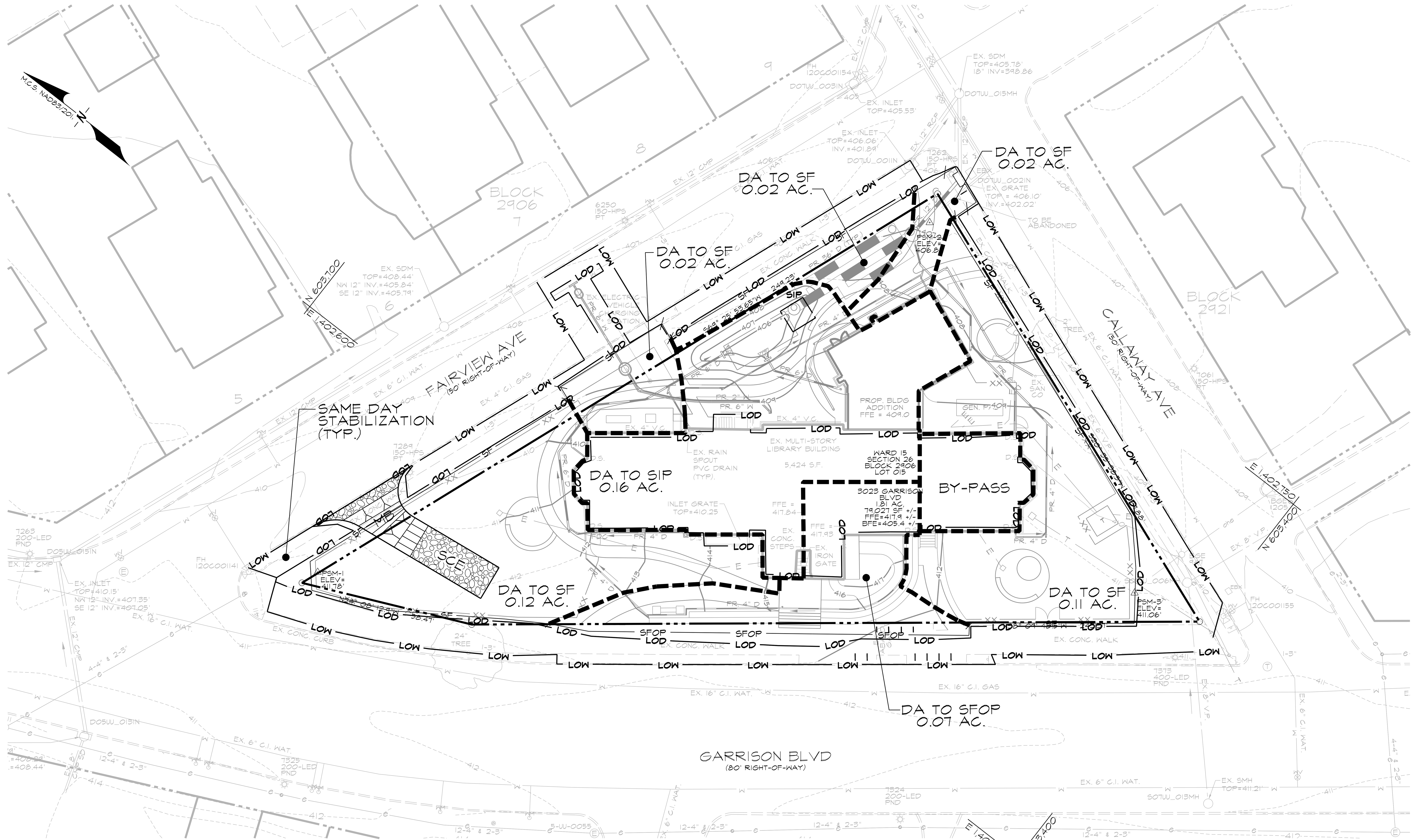

EROSION & SEDIMENT CONTROL PROPOSED DRAINAGE AREA MAP

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- 185 — EX. INDEX CONTOUR
- 186 — EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- g — EX. GAS MAIN
- t — EX. COMMUNICATION
- ohe — EX. OVERHEAD ELECTRIC
- e — EX. ELECTRIC
- 8" SAN. — EX. SANITARY SEWER
- 15" RCP. — EX. STORM DRAIN
- 8" WATER W — EX. WATER
- x — EX. FENCE
- EX. WOODS LINE
- WM — EX. WATER METER
- WV — EX. WATER VALVE
- FH — EX. FIRE HYDRANT
- SMH — EX. SANITARY MANHOLE
- MH — EX. STORM DRAIN MANHOLE
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- PROP. 6" W — PROP. WATER LINE
- PROP. 15" D — PROP. STORM DRAIN
- PROP. MANHOLE
- LOD — LIMIT OF DISTURBANCE
- LOW — LIMIT OF DISTURBANCE
- SF — SILT FENCE
- SFOP — SILT FENCE ON PAVEMENT
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- SIP — STANDARD INLET PROTECTION
- DRAINAGE AREA BOUNDARY

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STATE OF MARYLAND RYAN J PIKE 51066 PROFESSIONAL ENGINEER
2/7/25

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ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
WARD: 15 SECTION: 26 BLOCK: 2906 LOT: 15
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET
PSC #

Sheet Issue Date: 02/07/2025

Revisions:
No. Date Description

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EROSION & SEDIMENT CONTROL PROPOSED DA MAP

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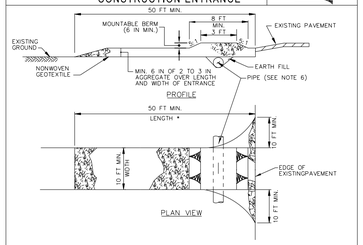
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

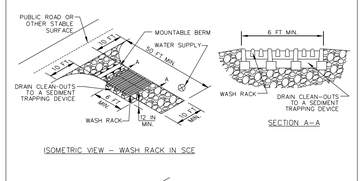
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING 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 B-2 WASH RACK OPTION

STANDARD SYMBOL: WR



CONSTRUCTION SPECIFICATIONS

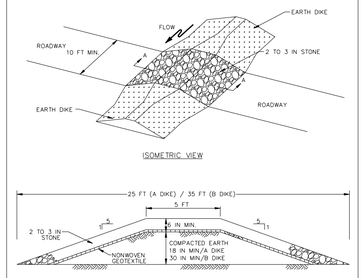
1. USE A WASH RACK DESIGNED AND CONSTRUCTED/MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CATTLE GUARDS ARE ACCEPTABLE. USE MINIMUM DIMENSION OF 6 FEET x 10 FEET. ORIENT DIRECTION OF RIBS AS SHOWN ON THE DETAIL.
2. INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE.
3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

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 C-8 MOUNTABLE BERM

STANDARD SYMBOL: MBP



CONSTRUCTION SPECIFICATIONS

1. USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.
2. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.
3. PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.
4. MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

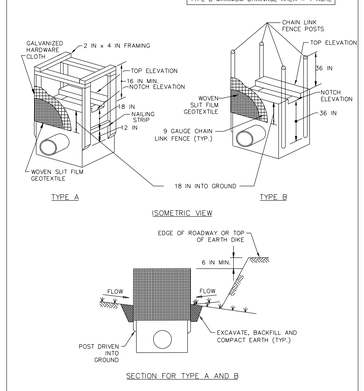
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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



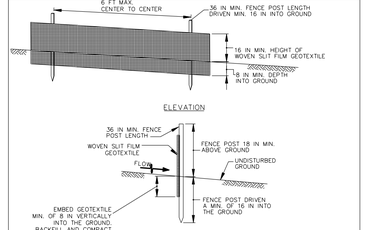
1 OF 2

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

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

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

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 2" 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.

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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

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

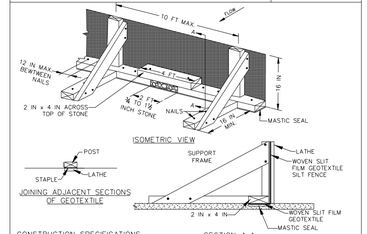
2 OF 2

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-2 SILT FENCE ON PAVEMENT

STANDARD SYMBOL: SFOP



CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
3. 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.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

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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STATE OF MARYLAND — RYAN PATRICK FLYNN — 31066 — PROFESSIONAL ENGINEER

2/7/25

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ADDITION & RENOVATION FOR
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AUGUST 29, 2025

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Sheet Issue Date: 02/07/2025

Revisions:

No.	Date	Description

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EROSION & SEDIMENT CONTROL DETAILS

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EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE MARYLAND SEDIMENT AND EROSION MANUAL AND BALTIMORE CITY CODE ARTICLE 7.

2. SUBMIT A WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, OFFICE OF COMPLIANCE AND RESEARCH; 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215 PHONE NUMBER, 410-396-0752, FAX 410-523-9047, DPW.ESCINSPECTIONS@BALTIMORECITY.GOV AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION STATING:

   A. A REQUEST FOR A PRECONSTRUCTION MEETING
   B. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
   C. WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES,
   D. SOURCE OF BORROW MATERIAL,
   E. LOCATION OF DISPOSAL AREA OF SITE MATERIAL,
   F. CONTRACTOR'S TENTATIVE CLOSING DATE.

3. INITIAL DISTURBANCE WILL BE LIMITED TO THAT NECESSARY TO GAIN ENTRANCE TO THE SITE AND INSTALL NECESSARY SEDIMENT CONTROLS AS PER THE APPROVED PLANS.

4. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN THREE (3) CALENDAR DAYS. ALL OTHER INACTIVE DISTURBED AREAS ON HE PROJECT SITE MUST BE STABILIZED WITHIN SEVEN (7) CALENDAR DAYS.

5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT BE OBSTRUCT THE NORMAL COURSE OF DRAINAGE.

6. PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.

7. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES IS MANDATORY.

8. ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ON TO PUBLIC RIGHT-OF-WAYS.

10. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED OR WASHED ON TO ADJACENT ROADS MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. NO FLUSHING WILL BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEPING.

11. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 5,000 SQ. FT, THE CONTRACTOR SHALL HAVE A BALTIMORE CITY EROSION AND SEDIMENT CONTROL INSPECTOR INSPECT AND APPROVE THE WORK COMPLETED AT THE STAGES OF CONSTRUCTIONS SPECIFIED BELOW:

   A. UPON COMPLETION OF THE INSTALLATION OF THE PERIMETER SEDIMENT CONTROLS;
   B. DURING ALL GRADING AND BUILDING OPERATIONS);
   C. UPON FIRST STABILIZATION OF THE ENTIRE SITE PRIOR TO REMOVAL OF THE SEDIMENT CONTROLS.

12. THE CONTRACTOR SHALL NOT DEVIATE FROM THE APPROVED SEDIMENT AND EROSION CONTROL PLAN WITHOUT FIRST RECEIVED APPROVAL FROM THE OFFICE OF COMPLIANCE AND LABORATORIES. VARIATIONS TO THE ORIGINAL PLAN MUST BE SUBMITTED IN WRITING WITH ALL PROPOSED MODIFICATIONS STILL BEING HIGHLIGHTED. SUBSTANTIAL CHANGES WILL NECESSITATE AMENDMENT OF THE GRADING/BUILDING PERMIT.

SUPPLEMENTAL EROSION AND SEDIMENT CONTROL NOTES

1. FOR UTILITY TRENCHES OUTSIDE THE DRAINAGE AREA LIMITS OF EROSION & SEDIMENT CONTROL (ESC) CONTROLS, THE CONGRACTOR SHAL OPEN ONLY A SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZAED AT THE END OF EACH WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZAED OVERNIGHT. ANY EXCESS STOCKPILE MATERIAL SHALL BE REMOVED FROM THE SITE AT THE END OF EACH WORKDAY. FOR PERVIOUS SURFACES, THE USE OF ANY VEHICLE TRAFFIC IS PROHIBITED FOR THE FIRST 24 HOURS AFTER A RAIN EVENT.

2. ALL DISTURBED AREAS SHALL BE STABILIZED PER THE STABILIZATION SCHEDULE.

3. THE ESC INSPECTOR HAS AUTHORITY TO REQUIRE ADDITIONAL ESC CONTROLS BEYOND THOSE SHOWN ON THE APPROVED ESC PLAN. ANY ADDITIONAL CONTROLS REQUIRED BY THE INSPECTOR SHALL BE PROVIDED BY THE CONTRACTOR AT THE DIRECTION OF THE INSPECTOR WITH 24 HOURS OF VERBAL NOTIFICATIONS BY THE ESC INSPECTOR.

4. WHERE SAMEDAY STABILIZATION IS SPECIFIED ON THE ESC PLAN, IT SHALL BE CONSIDERED THE PRIMARY ESC CONTROL. ANY CONTROLS PROVIDED DOWNSTREAM OF AREAS SPECIFIED FOR SAME DAY STABILIZATION SHALL BE CONSIDERED SECONDARY CONTROLS UNLESS SPECIFIED OTHERWISE. (SECONDARY CONTROLS ARE DEFINED AS CONTROLS PROVIDED AS BACKUP MEASURES TO A PRIMARY CONTROL).

5. SAME DAY STABILIZATION IS DEFINED AS THE COMPLETION OF PROPOSED WORK WITHIN A DEFINED AREA WITH THE STIPULATION OF A NON-ERODIBLE SURFACE AT THE END OF EACH WORK DAY. EXAMPLES OF ACCEPTABLE NON- ERODIBLE SURFACES INCLUDE PAVEMENT, STEEL PLATES, A 2" MINIMUM STONE LAYER, OR STABILIZATION MATTING OVER PERMANENT SEEDING. THIRTY (30) MIL PLASTIC SHEETING WITH ANCHORING MAY BE TEMPORARY SEEDING AND MULCH IS NOT CONSIDERED AN ACCEPTABLE SAME DAY STABILIZATION PRACTICE, CONSIDERED ACCEPTABLE IF EITHER SPECIFIED ON AN APPROVED PLAN, OR APPROVED BY THE ESC INSPECTOR.

H-5 STANDARDS & SPECIFICATIONS FOR DUST CONTROL

DEFINITION
CONTROLLING THE SUSPENSION OF DUST PARTICLES FROM CONSTRUCTION ACTIVITIES.

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE.

CONDITIONS WHERE PRACTICE APPLIED
AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

1. MULCHES; SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION B-4-3 SEEDING AND MULCHING, AND SECTION B-4-4 TEMPORARY STABILIZATION. MULCH MUST BE ANCHORED TO PREVENT BLOWING.
2. VEGETATIVE COVER; SEE SECTION B-4-4 TEMPORARY STABILIZATION.
3. TILLAGE; TILL TO ROUGHEN SURFACE AND BRING CLODS TO SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.
4. IRRIGATION; SPRINKLE SITE WITH WATER UNTIL SURFACE IS MOIST. REPEAT AS NEEDED. THE SITE MUST NOT BE IRRIGATED TO THE POINT THAT RUNOFF OCCURS.
5. BARRIERS; SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
6. CHEMICAL TREATMENT; USE OF CHEMICAL TREATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW AUTHORITY.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

UTILITY NOTES

1. CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF THE TRENCH.
3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.
4. CONTRACTOR TO ENSURE PROPER SAFETY PRECAUTIONS FOR TRAFFIC ARE TAKEN WHEN IN AREAS OF AUTOMOBILE TRAVEL AREAS.
5. ANY EXCESS STOCKPILE MATERIAL MAY BE PLACED ON-SITE IN THE TEMOPARY STOCKPILE AREA.

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 DISCHARGES.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WIH 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 WIH THE SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

B-4-7 STANDARDS AND SPECIFICATIONS FOR HEAVY USE AREA PROTECTION

DEFINITION
THE STABILIZATION OF AREAS REQUENTLY AND INTESIVELY USED BY SRUFACING WITH SUITABLE MATRERIALS (E.G., MULCH AND AGGREGATE).

PURPOSE:
TO PROVIDE A STABLE, NON-ERODING SURFACE FOR AREAS FREQUENLTY USED AND TO IMPROVE WATER QUALITY FROM THE RUNOFF OF THESE AREAS.

CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE APPLIES TO INTESIVELY USED AREAS (E.G., EQUIPMENT AND MATERIAL STORAGE, STAGING AREAS, HEAVILY USED TRAVEL LANES).

CRITERIA

1. A MINIMUM 4-INCH BASE COURSE OF CRUSHED STONE OR OTHER SUITABLE MATERIALS INCLUDING WOOD CHIPS OVER NONWOVEN GEOTEXTILE SHOULD BE PROVIDED AS SPECIFIED IN SECTION H-1 MATERIALS.
2. SELECT THE STABILIZING MATERIAL BASED ON THE INTENDED USE, DESIRED MAINTENANCE FREQUENCY AND RUNOFF CONTROL.
3. THE TRANSPORT OF SEDIMENTS, NUTRIENTS, OILS, CHEMICALS, PARTICULATE MATTER ASSOCIATED WITH VEHICULAR TRAFFIC AND EQUIPMENT AND MATERIAL STORAGE NEEDS TO BE CONSIDERED IN THE SELECTION OF MATERIAL. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY TO CONTROL SOME OF THESE POTENTIAL POLLUTANTS.
4. SURFACE EROSION CAN BE A PROBLEM ON LARGE HEAVY USE AREAS. IN THESE SITUATIONS, MEASURES TO REDUCE THE FLOW LENGTH OF RUNOFF OR EROSIVE VELOCITIES NEED TO BE CONSIDERED.

MAINTENANCE

THE HEAVY USE AREAS MUST BE MAINTAINED IN A CONDITION THAT MINIMIZES EROSION. THIS MAY REQUIRE ADDING SUITABLE MATERIAL, AS SPECIFIED ON THE APPROVED PLANS, TO MAINTAIN A CLEAN SURFACE.

OWNER'S/ DEVELOPER'S CERTIFICATION

I/WE DO HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED PLAN AND ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATION OF ATTENDANCE AT AN APPROVED MARYLAND DEPARTMENT OF THE ENVIRONMENTAL SEDIMENT AND EROSION CONTROL TRAINING PROGRAM PRIOR TO THE BEGINNING OF WORK. THE CITY'S DPW AND DHCD AND MDE WILL BE ALLOWED RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION.

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ENGINEER'S CERTIFICATION

I DO HEREBY CERTIFY THAT THIS PLAN FOR EROSION SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED UPON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE CITY OFFICE OF COMPLIANCE AND LABORATORIES.

MARIANNE CRAMPTON (PRINT NAME) 25058 (LIC. NO.) _____ (SIGNATURE) _____ (DATE)

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PROFESSIONAL ENGINEER
21705
2/7/25

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 51066, EXPIRATION DATE 06-07-2025

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EROSION & SEDIMENT CONTROL NOTES

C6.04
SHEET 31 OF 179
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B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

PURPOSE
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES
ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS, THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY
STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS. PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH. VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE. SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING,AND VEGETATIVE ESTABLISHMENT.

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

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUNDCOVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUNDCOVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION
ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

PURPOSE
TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.

CONDITIONS WHERE PRACTICE APPLIES
ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

CRITERIA
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 THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

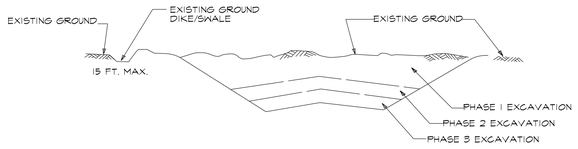

Figure B.1: Incremental Stabilization - Cut

B. INCREMENTAL STABILIZATION - FILL SLOPES
   1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
   2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REAGHES 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 THE 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.

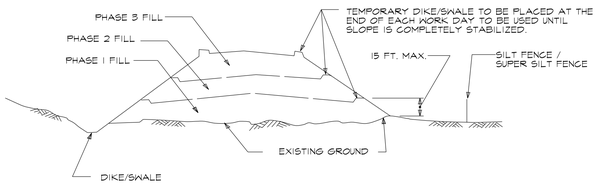

FIGURE B.2: INCREMENTAL STABILIZATION - FILL

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

DEFINITION
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

CRITERIA
A. SOIL PREPARATION
   1. 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 LIME 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) NOULD 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 UNNECESSARY 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 GINDERS, STONES, SLAGCOARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1. INCHES 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.
   6. 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 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.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
   1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION 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, TRADE 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

DEFINITION
THE APPLICATION OF SEED AND MUCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES
TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

CRITERIA
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 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 THE 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 INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP THE INOCULANT COOL AS POSSIBLE UNTIL USED. TEMPERATURES 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 FROP 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 THE 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. CULTIPACKER SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 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: APPLY 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; P_2O_5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K_2O (POTASSIUM), 200 POUNDS PER ACRE.
         ii. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE 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 HYDROSEEDING DO NOT INCORPORATE SEED INTO THE 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, DEGAYED, 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 PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
         ii. WCFM, INCLUDING DYE, MSUT CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
         iii. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE 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 BY 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 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.

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STATE OF MARYLAND — RYAN PHILLIPS — 37066 — PROFESSIONAL ENGINEER
8/29/25

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 37066, EXPIRATION DATE 06-07-2025

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EROSION & SEDIMENT CONTROL STABILIZATION NOTES

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B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

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.

CRITERIA

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):					FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS		
	ANNUAL RYEGRASS	40	FEB. 15-APR. 30 AUG. 15-NOV. 30	1/2 "	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
	FOXTAIL MILLET	30	MAY 1-AUG. 14	1/2 "		
	ANNUAL RYEGRASS	40	DEC. 1-FEB. 14	1/2 "		

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

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

CRITERIA

A. 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 . 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 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. 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 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 GENETRIC 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 1. INCHES 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 (1/2 TO 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.

PERMANENT SEEDING SUMMARY

HARDINESS ZONE (from figure B.3): 7A SEED MIXTURE (from table B.1):					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	N	P_2O	K_2O	
11	CREEPING RED FESCUE KENTUCKY BLUEGRASS CHEWING FESCUE	30 20 30	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.	45 POUNDS PER ACRE (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	2 tons/ac (90 lb/1000 sf)
8	TALL FESCUE	100	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.				
9	TALL FESCUE KENTUCKY BLUEGRASS PERRENIAL RYEGRASS	60 40 20	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.				
3	DEERTONGUE CANADA WILD RYE COMMON LESPEDEZA	20 3 10	FEB. 15-APR. 30 MAY 1 - MAY 31	1/4 - 1/2 in.				

B. 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 . INCH, PLUS OR MINUS . 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.

d. 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 . 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.

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STATE OF MARYLAND · RYAN T. PRICE · 37066 · PROFESSIONAL ENGINEER · 2/7/25

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EROSION & SEDIMENT CONTROL STABILIZATION NOTES

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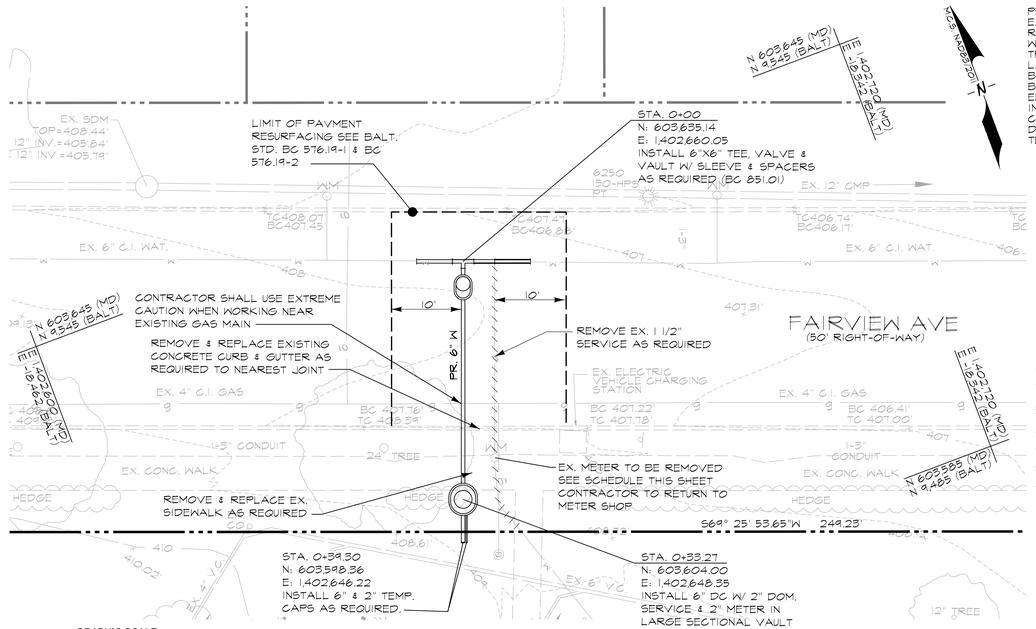


GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

WATER METER PLAN
SCALE: 1" = 10'

WATER SHUT-OFF DIAGRAM
SCALE: 1" = 60'

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

ABBREVIATIONS

PROP.	PROPOSED
EX.	EXISTING
R/W	RIGHT OF WAY
W.	WATER
TRAV.	TRAVERSE
L.F.	LINEAR FEET
BC.	BALTIMORE CITY
BALT.	BALTIMORE
ELEV.	ELEVATION
INV.	INVERT
CONC.	CONCRETE
DC.	DETECTOR CHECK
TEMP.	TEMPORARY.

PROPOSED LEGEND

	RIGHT-OF-WAY
PROP. 6" W.	PROP. WATER LINE
	PROP. WATER METER
	PROP. WATER VALVE

EXISTING LEGEND

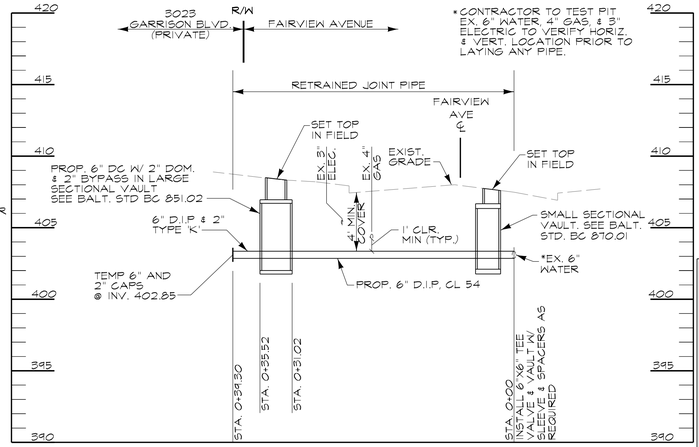
150	EX. INDEX CONTOUR
152	EX. INTERMEDIATE CONTOUR
	EX. CURB AND GUTTER
g	EX. GAS
e	EX. ELECTRIC
EX. 18"D	EX. STORM DRAIN
2"W	EX. WATER
WV	EX. WATER VALVE
WM	EX. WATER METER
	EX. FIRE HYDRANT
	EX. MANHOLE
CO.	EX. CLEANOUT
	EX. SIGN
	EX. UTILITY POLE
	EX. LIGHT POLE

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010.) & NAVD88 FOR VERTICAL:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,551.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,553.83047	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,693.97981	411.06'	IRON REBAR AND CAP

GRAPHIC SCALE
5 0 2.5 5 10
(IN FEET)
1 inch = 5 ft.



WATER SERVICE PROFILE
SCALE: HORIZ. 1"=10'
VERT. 1"=5'

VICINITY MAP
SCALE: 1" = 1000'

BILL OF MATERIALS

QUANTITY	DESCRIPTION	SIZE
40 L.F.	DIP (CL 54) W/ RESTRAINED JOINTS	6"
4 L.F.	COPPER PIPE, TYPE 'K'	2"
1 EA.	TEE	6" X 6"
2 EA.	SLEEVE & SPACER	6"
1 EA.	VALVE	6"
1 EA.	CONCRETE SECTION VAULT	SMALL
1 EA.	DETECTOR CHECK METER	6"
1 EA.	DOMESTIC METER	2"
1 EA.	CONCRETE SECTIONAL VAULT	LARGE
1 EA.	TEMPORARY CAP	6"
1 EA.	TEMPORARY CAP	2"
39 LF	EXISTING WATER SERVICE TO BE REMOVED	1 1/2"

WATER NOTES

1. THE CONTRACTOR MUST NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING WORK. CONTRACTOR MUST NOTIFY BGE (410-281-5507) AT LEAST TWO (2) DAYS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR REQUEST MUST SUBMIT A WRITTEN NOTIFICATION PLANS REVIEW AND INSPECTION SECTION AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION/LAND DISTURBANCE ACTIVITIES TO THE DPW OFFICE OF RESEARCH AND ENVIRONMENTAL PROTECTION. 3001 DRUID PARK DRIVE, ROOM 228 BALTIMORE, MD 21215; FAX 410-523-9047; DPWESCINSPECTIONS@BALTIMORECITY.GOV.
3. FOR SMALL METER INSTALLATION (2 INCHES AND LESS), DPW WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION OF SCHEDULE AND LOCATION AT LEAST 5 WORKING DAYS BEFORE STARTING WORK TO THE BALTIMORE CITY DPW METER SHOP AT, METERINSTALL.APPOINT@BALTIMORECITY.GOV. UPON RECEIPT OF NOTIFICATION, DPW WILL RESPOND TO THE CONTRACTOR WITH AN APPROXIMATE INSTALLATION SCHEDULE.
4. FOR LARGE METER INSTALLATION (3 INCHES OR GREATER), THE CONTRACTOR WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR SHALL SCHEDULE TO PICK UP THE METER(S) AT THE DPW METER SHOP STORE ROOM THROUGH WRITTEN NOTIFICATION TO DPW METER SHOP STORE ROOM AT KAREN.ARMSTEAD@BALTIMORECITY.GOV. NOTIFICATION IS REQUIRED AT LEAST 2 WORKING DAYS PRIOR TO PICK UP AND SHOULD INCLUDE THE METER INSTALLATION SCHEDULE, LOCATION(S), THE NAME OF THE CONTRACTOR OR COMPANY AND PHONE NUMBER. DPW WILL BE RESPONSIBLE FOR METER INSPECTION AND ERT INSTALLATION, FOLLOWING THE METER INSTALLATION.
5. ALL EXISTING WATER VALVES SHALL BE OPERATED BY WATER AND WASTEWATER MAINTENANCE DIVISION FORCES ONLY. THE CONTRACTOR SHALL NOTIFY MR. ANTHONY STEVENSON (410-978-5481) OR ANTHONY.STEVENSON@BALTIMORECITY.GOV) AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY NECESSARY VALVE OPERATIONS.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PUBLIC WORKS DEVELOPER'S AGREEMENT AND THE CITY OF BALTIMORE BOOK OF STANDARDS, CITY OF BALTIMORE MANUAL OF DESIGN PROCEDURE AND CRITERIA.
7. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER FACILITIES.
8. ALL SERVICES MUST BE FLUSHED PRIOR TO SETTING METERS.
9. SERVICES MUST BE CAPPED AND THE COMPLETED SERVICE WILL BE VISUALLY INSPECTED FOR LEAKS.
10. UNLESS OTHERWISE NOTED IN THE APPROVED PLANS, ALL SERVICES TO BE ABANDONED MUST BE ABANDONED AT THE MAINS AND ALL METERS MUST BE RETURNED TO BALTIMORE CITY DPW METER SHOP.
11. METERS ARE NOT PERMITTED TO BE INSTALLED IN THE ROADWAY OR DRIVEWAYS.
12. METERS DESIGNATED FOR A SPECIFIC LOCATION OR ADDRESS SHALL NOT BE RELOCATED WITHOUT THE WRITTEN PERMISSION FROM THE DPW CUSTOMER SERVICE AND SUPPORT DIVISION.
13. THE PROPOSED WATER SERVICE CONNECTION MUST BE INSTALLED A MINIMUM OF FIVE (5) FEET FROM SANITARY SEWER HOUSE CONNECTION.
14. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF EXISTING WATER MAINS AND ALL UTILITY CROSSINGS PRIOR TO ANY NEW CONSTRUCTION. ANY DEVIATION NOTED FROM TEST PIT INFORMATION WILL REQUIRE RED LINE REVISED PLANS APPROVED BY THE DPW OFFICE OF RESEARCH AND ENVIRONMENTAL PROTECTION, PLANS REVIEW AND INSPECTION SECTION PRIOR TO ANY NEW CONSTRUCTION.

TRAFFIC ENGINEERING NOTES

1. THE CONTRACTOR SHALL CONTACT "THE TRAFFIC SECTION", AT (443) 984-2150 TWO (2) WEEKS BEFORE CONSTRUCTION BEGINS AND ONE (1) WEEK PRIOR TO ANY CHANGES TO THE MAINTENANCE OF TRAFFIC.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT FOR THE DURATION OF THE CONTRACT.
3. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION AND REVISIONS OF THE MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD), THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) WORK ZONE TRAFFIC CONTROL STANDARDS, AND THE CITY OF BALTIMORE BOOK OF STANDARDS.
4. IN ORDER TO WORK IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE DEPARTMENT OF TRANSPORTATION (DOT) PERMITS DIVISION. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THE DOT RIGHT OF WAY PERMITS DIVISION IN THE HARRY S. CUMMINGS BUILDING LOBBY, 401 E. FAYETTE STREET, TELEPHONE (410) 396-6865, OR (410) 396-4508; EMAIL ROWPERMITDOCUMENTS@BALTIMORECITY.GOV. DURING THE PERMIT REVIEW PROCESS, THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO ANY PREVIOUS COSTS. EMAIL A COPY OF THE PERMIT, NOTIFICATION FORM AND DRAWING TO STREET CUT INSPECTIONS, 48 HRS. PRIOR TO WORKING AT STREETCUTS@BALTIMORECITY.GOV. IF YOU HAVE ANY QUESTIONS CALL (410) 396-2888.
5. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR (4) FOOT WIDE PEDESTRIAN FOOTWAY OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR, APPROVED BY DOT-TRAFFIC, WHILE ACTIVELY WORKING IN THE SIDEWALK IN ACCORDANCE WITH ADA GUIDELINES AND APPROPRIATE SHA AND CITY STANDARDS.
6. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING SIGNALS, ALL LIGHTING AND CONDUIT FACILITIES DURING CONSTRUCTION.
7. ALL EXCAVATIONS AND TRENCHES SHALL BE STEEL PLATED AT THE END OF EACH WORK DAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. STEEL PLATES SHALL BE INSTALLED PER STANDARD (STD. DETAIL BC-76.17) AND SHALL BE CLEARLY MARKED SO THAT OWNERSHIP IS EASILY DISCERNABLE.
8. THE CONTRACTOR SHALL MAINTAIN ONE (1) ELEVEN-FOOT (11') LANE OF TRAFFIC IN EACH DIRECTION OF TRAVEL OR PROVIDE A TWO-MAN FLAGGING OPERATION EQUIPPED WITH "SLOW/STOP" PADDLES.
9. NO LANE CLOSURES OR DISRUPTION OF TRAFFIC BETWEEN THE HOURS OF 7AM-9AM AND 3PM-6PM WEEKDAYS.
10. THE CONTRACTOR SHALL MAINTAIN AN INGRESS AND EGRESS TO ALL LOCAL BUSINESSES.
11. CONTRACTOR TO USE EXTREME CAUTION DUE TO BURIED CABLE IN THIS AREA. THE CITY, AT THE CONTRACTOR'S EXPENSE WILL REPAIR ANY DAMAGE.
12. NO STREET CLOSURES WILL BE ALLOWED.
13. THE CONTRACTOR IS REPONSIBLE FOR ANY SIGNING AND PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION, INCLUDING THOSE OUTSIDE THE PROJECT LIMITS.
14. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY TEMPORARY "NO STOPPING" PROHIBITION SIGNING THAT WILL BE NECESSARY TO COMPLETE THIS PROJECT A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE IS REQUIRED FOR ANY TEMPORARY PARKING RESTRICTIONS.
15. THE CONTRACTOR SHALL NOTIFY THE BALTIMORE TRANSPORTATION MANAGEMENT CENTER AT (443) 984-2184 AND TMC.DOT@BALTIMORECITY.GOV WHEN IMPLEMENTING ANY LANE CLOSURES, ROADWAY CLOSURES, OR DETOURS AS INDICATED IN AN APPROVED TRAFFIC CONTROL PLAN THEY SHALL ALSO NOTIFY THE TMC WHEN THEY ARE OFF THE ROADWAY.

STANDARD HIGHWAY NOTES

1. FAIRVIEW AVENUE IS CLASSIFIED "LOCAL" WITH FLEXIBLE PAVEMENT. THE STREET REPAIRS SHALL BE DONE IN ACCORDANCE WITH STD. DETAILS B.C. 576.19-1 AND B.C. 576.19-2.
2. DISTURBED CURBS SHALL BE REPLACED IN-KIND TO THE NEAREST JOINT.
3. SIDEWALKS SHALL BE REPLACED JOINT-TO-JOINT WITH 5 INCHES OF MIX NO. 2 CONCRETE ON 3 INCHES OF GR-6.
4. ALL EXCAVATIONS AND TRENCHES SHALL BE STEEL PLATED AT THE END OF EACH WORKDAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. STEEL PLATES SHALL BE INSTALLED PER STANDARD BC-576.17 AND SHALL BE CLEARLY MARKED SO THAT OWNERSHIP IS EASILY DISCERNABLE.
5. AFTER COMPLETING CONSTRUCTION, RESTORE GRASS AREAS WITH 4" TOPSOIL, SEED AND MULCH.

NOTES

1. ALL WORK TO BE PERFORMED UNDER SAME DAY STABILIZATION.
2. CONTRACTOR TO NOTIFY STANLEY JACOBS AT (410) 396-2888 PRIOR TO ALL EXISTING STREET AND PAVEMENT DISTURBANCES.
3. CONTRACTOR TO NOTIFY ENGINEER AND CITY OF BALTIMORE IF THE CLEARANCES WITH THE UTILITIES SHOWN CANNOT BE ACHIEVED.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE WORK SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.

SIGNED P.E.

NAME DATE

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: DEPARTMENT OF GENERAL SERVICES
ABEL WOLMAN MUNICIPAL BUILDING
200 NORTH HOLLIDAY STREET
BALTIMORE, MD 21202

DEPARTMENT OF GENERAL SERVICES PROJECT #____ C7.00

SITE ANALYSIS

LIMIT OF WORK:	892 S.F. OR 0.02 AC	
IMPERVIOUS STABILIZATION AREA:	781 S.F. OR 0.018 AC	
TOTAL EARTHWORK:	CUT = 71.4 C.Y. FILL = 71.4 C.Y. CUT / FILL RATIO = 1 : 1	

EXCESS CUT MATERIAL SHALL BE DISPOSED OF OFFSITE AT A LOCATION WITH AN APPROVED SEDIMENT CONTROL PLAN AND OPEN GRADING PERMIT.

EXISTING WATER SERVICE / METER REMOVAL SCHEDULE

NO.	OWNER	SERVICE ADDRESS	ACCOUNT NO.	METER NO.	SERVICE SIZE	METER SIZE
1	MAYOR & CITY COUNCIL	3023 GARRISON BLVD.			1-1/2"	

CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

MK CONSULTING ENGINEERS

ENGINEER: RYAN J. PIKE

DATE: _____ LIC. NO. 51066

DESIGNED: RP
DRAWN BY: SG
CHECKED BY: PC

WATER PLAT Z-17 & Z-18
SERVICE ZONE (3 W)
WORKING PRESSURE XX PSI
TEST PRESSURE 150 PSI

WARD:15
SECTION: 26 SEC. APP.
BLOCK:2986
LOT:15

	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY														
DATE														

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. 51066 EXPIRATION DATE: 06-07-25

STATE OF MARYLAND RYAN J. PIKE 51066 PROFESSIONAL ENGINEER 2/7/25

mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: (667) 309-6193

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ___

FOREST PARK BRANCH LIBRARY ADDITION
AT
3023 GARRISON BLVD.
PROPOSED 2" DOM. SERVICE W/ 6" DC
&
ABANDONMENT OF 1-1/2" DOM. SERVICE

SCALE:AS SHOWN DATE: AUGUST 2025

WATER & WASTEWATER ENGINEERING DIVISION SHEET 1 OF 1

PLOTTED: 2/7/2025
BY:
E:\MKA Projects\2018\18049-500 - PRIME AE - Forest Park Branch Library CD and CA Services\Drawings\C7.00-Public Water Plan.dgn

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF BALTIMORE
DEVELOPERS AGREEMENT No. XXXX

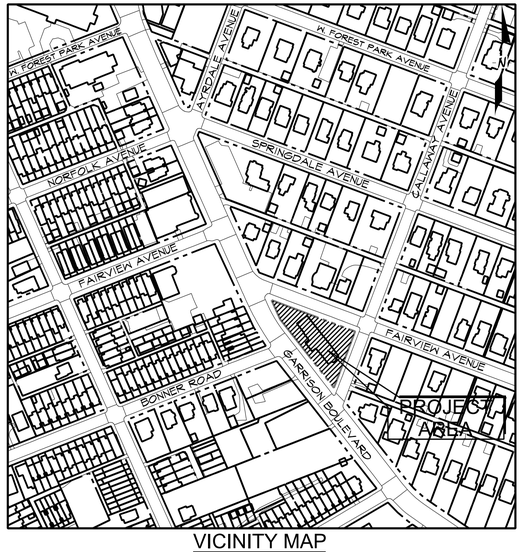
NEW WATER & CONDUIT IMPROVEMENTS

VICINITY MAP
SCALE: 1" = 1000'

ENOCH PRATT LIBRARY - FOREST PARK BRANCH RENOVATIONS
3023 GARRISON BOULEVARD
BALTIMORE, MD 21216

INDEX OF DRAWINGS

1. COVER SHEET
2. GENERAL NOTES
3. WATER METER PLAN & PROFILE
4. SPRINGDALE & CALLAWAY AVENUE CONDUIT PLAN
5. SPRINGDALE & CALLAWAY AVENUE CONDUIT PROFILE



VICINITY MAP
SCALE: 1" = 200'

SITE ANALYSIS

TOTAL LOT/SITE AREA: 0.52 AC.

TOTAL LIMIT OF DISTURBANCE: 19,973 SF. OR 0.46 AC.

EARTHWORK: CUT = 6,252 CY
FILL = 247 CY
CUT / FILL RATIO = 24.31:1

FILL MATERIAL SHALL BE FROM AN OFFSITE LOCATION WITH AN APPROVED SEDIMENT CONTROL PLAN & ACTIVE GRADING PERMIT. FILL MATERIAL MAY NOT BE STORED ON-SITE.

STORMWATER MANAGEMENT & EROSION & SEDIMENT CONTROL FOR THIS PROJECT IS PROVIDED UNDER BGNR #11322

_____ CHIEF, TRANSPORTATION, ENGINEERING & CONSTRUCTION DIVISION — DATE

_____ DIRECTOR, DEPARTMENT OF TRANSPORTATION — DATE

_____ CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION — DATE

_____ DIRECTOR, DEPARTMENT OF PUBLIC WORKS — DATE

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ____

FOREST PARK BRANCH LIBRARY ADDITION
AT
3023 GARRISON BLVD.

COVER SHEET

SCALE: AS SHOWN — AUGUST 29, 2025

TRANSPORTATION ENGINEERING AND CONSTRUCTION DEVISION — SHEET 1 OF 5

MK CONSULTING ENGINEERS

ENGINEER: RYAN J. PIKE
DATE: _____ LIC. NO. 51066

DESIGNED: RJP
DRAWN BY: RJP
CHECKED BY: MKC

WARD: 15
SECTION: 26 — SEC. — APP.
BLOCK: 2906
LOT: 15

GRAPHIC SCALE
200 0 100 200 400
(IN FEET)
1 inch = 200 ft.

BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY													
DATE													

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. 51066
EXPIRATION DATE: 06-07-27

mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: 667-309-6193

PLOTTED: 8/29/2025
BY: rpike
I:\MK\Projects\2018\18049-500 - PRME AE - Forest Park Branch Library CD and CA Services\Drawings\Developers Agreement\C-1 Cover Sheet.dgn

REVISIONS			
NO.	DESCRIPTION	DATE	BY

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-257-7777) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK. CONTRACTOR MUST NOTIFY BGE (410-281-3507) AT LEAST TWO DAYS PRIOR TO CONSTRUCTION
2. THE CONTRACTOR MUST SUBMIT A WRITTEN NOTIFICATION PLANS REVIEW AND INSPECTION SECTION AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION / LAND DISTURBANCE ACTIVITIES TO THE DPW, OFFICE OF COMPLIANCE AND RESEARCH: 3001 DRUID PARK DRIVE, ROOM 228 BALTIMORE, MD 21215; FAX 410-523-9047; DPW.ESCINSPECTIONS@BALTIMORECITY.GOV.
3. FOR SMALL METER INSTALLATION (2 INCHES AND LESS), DPW WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION OF SCHEDULE AND LOCATION AT LEAST 5 WORKING DAYS BEFORE STARTING WORK TO THE BALTIMORE CITY DPW METER SHOP AT METERINSTALL.APPOINT@BALTIMORECITY.GOV. UPON RECEIPT OF NOTIFICATION, DPW WILL RESPOND TO THE CONTRACTOR WITH AN APPROXIMATE INSTALLATION SCHEDULE.
4. FOR LARGE METER INSTALLATION (3 INCHES OR GREATER), THE CONTRACTOR WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR SHALL SCHEDULE TO PICK UP THE METER(S) AT THE DPW METER SHOP STORE ROOM THROUGH WRITTEN NOTIFICATION TO DPW METER SHOP STORE ROOM AT KAREN.ARMSTEAD@BALTIMORECITY.GOV. NOTIFICATION IS REQUIRED AT LEAST 2 WORKING DAYS PRIOR TO PICK UP AND SHOULD INCLUDE THE METER INSTALLATION SCHEDULE, LOCATION(S), THE NAME OF THE CONTRACTOR OR COMPANY AND PHONE NUMBER. DPW WILL BE RESPONSIBLE FOR METER INSPECTION AND ERT INSTALLATION, FOLLOWING THE METER INSTALLATION.
5. ALL EXISTING WATER VALVES SHALL BE OPERATED BY WATER AND WASTEWATER MAINTENANCE DIVISION FORCES ONLY. THE CONTRACTOR SHALL NOTIFY MR. ANTHONY STEVENSON (410-978-5981 OR ANTHONY.STEVENSON@BALTIMORECITY.GOV) AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY NECESSARY VALVE OPERATIONS.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PUBLIC WORKS DEVELOPER?S AGREEMENT AND THE CITY OF BALTIMORE BOOK OF STANDARDS, CITY OF BALTIMORE MANUAL OF DESIGN PROCEDURE AND CRITERIA.
7. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER FACILITIES.
8. ALL SERVICES MUST BE FLUSHED PRIOR TO SETTING METERS.
9. SERVICES MUST BE CAPPED AND THE COMPLETED SERVICE WILL BE VISUALLY INSPECTED FOR LEAKS.
10. UNLESS OTHERWISE NOTED IN THE APPROVED PLANS, ALL SERVICES TO BE ABANDONED MUST BE ABANDONED AT THE MAINS AND ALL METERS MUST BE RETURNED TO BALTIMORE CITY DPW METER SHOP.
11. METERS ARE NOT PERMITTED TO BE INSTALLED IN THE ROADWAY OR DRIVEWAYS.
12. METERS DESIGNATED FOR A SPECIFIC LOCATION OR ADDRESS SHALL NOT BE RELOCATED WITHOUT THE WRITTEN PERMISSION FROM THE DPW CUSTOMER SERVICE AND SUPPORT DIVISION.
13. THE PROPOSED WATER SERVICE CONNECTION MUST BE INSTALLED A MINIMUM OF FIVE (5) FEET FROM SANITARY SEWER HOUSE CONNECTION.
14. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF EXISTING WATER MAINS AND ALL UTILITY CROSSINGS PRIOR TO ANY NEW CONSTRUCTION. ANY DEVIATION NOTED FROM TEST PIT INFORMATION WILL REQUIRE RED LINE REVISED PLANS APPROVED BY THE DPW OFFICE OF COMPLIANCE AND RESEARCH, PLANS REVIEW AND INSPECTION SECTION PRIOR TO ANY NEW CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE A PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
16. EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION, WHICH INCLUDES A FIELD SURVEY CONDUCTED BY PRECISION SURVEY AND MAPPING LLC, FEBRUARY 2021, AS-BUILT WATER, WASTEWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS.
17. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OUTLINED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO STARTING ANY WORK.
18. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AVAILABLE AS-BUILT PLANS PROVIDED BY BALTIMORE CITY DPW, AND A SUPPLEMENTAL SURVEY CONDUCTED BY PRECISION SURVEY AND MAPPING, LLC, FEBRUARY 2021.
19. REMOVAL OF ANY SIDEWALK AND/OR CURB AND GUTTER SHALL BE TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
20. SAWCUT EXISTING PAVING AS NEEDED TO INSTALL NEW CONSTRUCTION.
21. STRIP AND RESURFACE EXISTING PAVING AS NEEDED TO PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE.
22. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
23. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
24. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
25. THE CONTRACTOR SHALL NOTE THAT IN CASE OF ANY DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
26. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL TIE-IN ELEVATIONS.
27. CONTRACTOR SHALL ADJUST ALL FRAMES, GRATES AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT TO THE PROPOSED GRADES, AS REQUIRED.
28. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO SWALES AND/ OR STORM DRAIN SYSTEMS AT ALL TIMES.
29. PAVING REPAIR SHALL BE IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAIL BC 576.19.
30. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SITE ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN OR MOST CURRENT.
31. PLACE 4" TOPSOIL, SEED & MULCH OR SOLID SODDING TO RESTORE ALL GRASS AREAS AS REQUIRED.
32. FOR TRENCH REPAIR ON SPRINGDALE & CALLAWAY AVENUE REFER TO B.C. 576.19.
33. CONTRACTOR TO NOTIFY STANLEY JACOBS AT 410-396-2889 PRIOR TO ALL EXISTING STREET AND PAVEMENT DISTURBANCES.
34. CONTRACTOR SHALL CONTACT BGE FOR DETAILS OF EXISTING STREET LIGHTING CIRCUIT AND REQUIRED CONDUIT AND CABLE ADJUSTMENTS TO MAINTAIN EXISTING STREET LIGHTING DURING CONSTRUCTION AND REQUIRED ADJUSTMENTS OF STREET LIGHTING CONDUITS.

STREET LIGHT NOTES

1. UNLESS OTHERWISE NOTED, ALL STREET LIGHTING RELATED WORK SHALL BE IN ACCORDANCE WITH THE CITY OF BALTIMORE'S DEPARTMENT OF PUBLIC WORKS, "CONSTRUCTION SPECIFICATIONS","BOOK OF STANDARDS", THE BUILDING CODE OF BALTIMORE CITY AND THE UTILITY DEVELOPERS AGREEMENT.
2. IN ORDER TO WORK IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE DEPARTMENT OF TRANSPORTATION (DOT) PERMITS DIVISION. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THE DOT RIGHT OF WAY PERMITS DIVISION IN THE HARRY S. CUMMINGS BUILDING LOBBY, 401 E. FAYETTE STREET, TELEPHONE (410) 396-6865, OR (410) 396-4508; EMAIL ROW.PERMIT.DOCUMENTS@BALTIMORECITY.GOV. DURING THE PERMIT REVIEW PROCESS, THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO ANY PREVIOUS COSTS. EMAIL A COPY OF THE PERMIT, NOTIFICATION FORM AND DRAWING TO STREET CUT INSPECTIONS, 48 HRS. PRIOR TO WORKING AT STREETCUTS@BALTIMORECITY.GOV. IF YOU HAVE ANY QUESTIONS, CALL 410-396-2889.
3. BALTIMORE CITY'S DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION MAINTAINS STREET LIGHTING POLES AND THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) MAINTAINS STREET LIGHT CABLES IN THE AREA. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN ALL EXISTING LIGHTING INFRASTRUCTURE, CIRCUIT CONTINUITY AND CONDUIT FACILITIES DURING CONSTRUCTION.
4. THE CONTRACTOR IS REQUIRED TO NOTIFY BGE AND BALTIMORE CITY STREET LIGHTING MAINTENANCE ENGINEERING SECTION AT (410) 396-4446, FOUR (4) WEEKS PRIOR TO STARTING ANY WORK.
5. THE CONTRACTOR MUST PROTECT AND MAINTAIN EXISTING STREET LIGHTING AND CONDUIT/CABLE SYSTEM IN SERVICE. ANY INTERRUPTION OR DAMAGE TO STREET LIGHTING SERVICE, STREET LIGHT POLE OR CONDUIT. CABLE SHALL BE REPAIRED AS DIRECTED BY DOT STREET LIGHT MAINTENANCE AND BGE AT CONTRACTOR'S OWN EXPENSE.
6. IF THE CONTRACTOR UNCOVERS OR DAMAGES A STREET LIGHT, CONDUIT OR CABLE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO NOTIFY STREET LIGHTING MAINTENANCE INSPECTIONS AT (410) 396-4446 AND BGE IMMEDIATELY. STREET LIGHTING MAINTENANCE WOULD AFFECT REPAIRS OR DIRECT BGE TO MAKE SAFE CONDITIONS AND / OR REPLACE CABLES PRIOR TO RESUMING CONSTRUCTION. ALL SUCH REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR WOULD BE RESPONSIBLE TO PROVIDE TEMPORARY LIGHTING AS PER BALTIMORE CITY STANDARDS IF THE EXISTING LIGHTS CANNOT BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNTIL PERMANENT LIGHTING ARE OPERATIONAL.
8. IN AREAS WHERE THE CONTRACTOR IS TO REMOVE THE FOOTWAY WHERE BURIED CABLE IS PRESET, THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH BGE AT (4100 470-6744. BGE MAY ELECT TO INSTALL NEW CABLE PRIOR TO THE INSTALLATION OF THE NEW FOOTWAY.
9. COORDINATION FOR BGE STREET LIGHTING CONSTRUCTION SERVICES REQUIRED THAT THE LATEST RED-LINED OR UPGRADED DRAWINGS (AS IT PERTAINS TO STREET LIGHTING INFRASTRUCTURE) ARE PROVIDED ELECTRONICALLY TO BALTIMORE CITY'S TRANSPORTATION MAINTENANCE DIVISION. IF APPLICABLE, THE MARKED UP DRAWINGS SUBMITTED WILL SERVE AS THE BASIS FOR DETERMINING THE PROBABLE COST ESTIMATE FOR BGE SERVICES. CONTRACTOR SHALL CONTACT STREET LIGHTING MAINTENANCE (410) 396-4446, AT LEAST 10 WORK DAYS PRIOR TO STARTING ANY WORK.
10. CONTRACTOR SHALL CONTACT CONDUIT MAINTENANCE INSPECTIONS AT 410-396-1515 TWO (2) WEEKS BEFORE START OF CONSTRUCTION. CABLE INSTALLATIONS BY BGE WILL NOT BE CARRIED OUT WITHOUT COMPLETION OF AN INSPECTION BY CONDUIT MAINTENANCE.
11. THE DEVELOPERS AND CONTRACTOR WILL BE RESPONSIBLE FOR THE TOTAL COST OF STREET LIGHTING WORK INCLUDING REMOVAL, INSTALLATION, REQUIRED CONDUIT CONSTRUCTION AND SERVICES TO DE-ENGERIZE AND ENERGIZE LIGHT POLES.
12. BEFORE CONTRACTOR CAN REMOVE EXISTING POLES, THE CONTRACTOR IS REQUIRED TO CONTACT STREET LIGHTING MAINTENANCE TO AUTHORIZE STREET LIGHTING WORK WITH BGE AND OBTAIN COST ESTIMATE FOR BGE TO DE-ENGERIZE STREET LIGHT POLES AND LIGHT FIXTURES TO BE REMOVED AND SALVAGED. THE CONTRACTOR WILL RECEIVE SECOND ESTIMATE FOR BGE TO ENERGIZE THE STREET LIGHT POLES AFTER INSTALLATION.
13. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING STREET LIGHTING FACILITIES INCLUDING CABLE / CONDUIT SYSTEMS.
14. THE CONTRACTOR IS REQUIRED TO CONTACT BGE AND DOT CONDUIT DIVISION 410-396-1515 FOR CONDUIT INSPECTION PRIOR TO FINAL PAVEMENT AND SIDE WALK WORK AND BGE CAN ENERGIZE THE LIGHT POLES.
15. THE CONTRACTOR IS REQUIRED TO CONTACT STREET LIGHTING MAINTENANCE FOR THE POLES AND LIGHT FIXTURES TO BE REMOVED AND SALVAGED AND TO COORDINATE DE-ENERGIZING AND REENERGIZING THE THE LIGHT POLES BY BGE.
16. CONTRACTOR TO NOTIFY STANLEY JACOBS AT 410-396-2889 PRIOR TO ALL EXISTING STREET AND PAVEMENT DISTURBANCES.
17. THE CONTRACTOR IS REQUIRED TO CONTACT MR. DAN HENNESSY (410-470-8310) EMAIL- DAN.HENNESSY@BGE.COM AT BGE OUTDOOR LIGHTING FOR DETAILS OF EXISTING LIGHTING CIRCUIT AND INSTRUCTIONS FOR REQUIRED ADJUSTMENTS TO MAINTAIN EXISTING STREET LIGHTING DURING CONSTRUCTION AND REQUIRED NEW CONDUITS TO CONNECT EXISTING AND PROPOSED NEW CIRCUIT FROM POWER SOURCE TO LIGHT POLES.

WATER METER ABANDONMENT NOTES

1. WATER SERVICE ABANDONMENT WITHOUT ABANDONING THE WATER MAIN.
   - A. AT WATER MAIN:
     a) SMALLER THAN OR EQUAL TO 2", REMOVE CORPORATION, INSTALL CORPORATION PLUG.
     b) LARGER THAN 2", REMOVE TEE AND VALVE, INSTALL SLEEVE AND SPACER.
   - B. AT WATER METER VAULT/PIT:
     REMOVE FRAME, COVER, AND WATER METER FROM VAULT/PIT, RETURN METER TO METER SHOP AND FRAME AND COVER TO WASHINGTON BOULEVARD YARD, AND REMOVE AND DISPOSE OF THE REMAINING INSIDE THE VAULT/PIT.
     a) IF THE METER VAULT/PIT IS A SECTIONAL VAULT, REMOVE TOP SECTION, BACKFILL, AND THEN COMPACT BACKFILL.
     b) IF THE METER VAULT/PIT IS PRECAST OR CAST-IN-PLACE VAULT/PIT, DRILL DRAINAGE HOLES AT BOTTOM SLAB, REMOVE TOP SLAB, BACKFILL, THEN COMPACT BACKFILL. RESTORE SURFACE PER APPLICABLE D.O.T. STANDARD DETAILS, AND ANY OTHER SURFACE FEATURES TO RESTORE THE SITE AS NECESSARY.
   - C. BETWEEN WATER MAIN AND WATER METER VAULT/PIT:
     a) FOR WATER SERVICE SMALLER THAN OR EQUAL TO 2", LEAVE EXISTING LINE IN PLACE.
     b) FOR WATER SERVICE LARGER THAN 2", PLUG BOTH ENDS OF THE EXISTING SERVICE LINE. BACFILL, COMPACT BACKFILL, INSTALL PAVING PER APPLICABLE D.O.T. STANDARD DETAILS.
2. ALL ABANDONED METER PITS SHALL BE BACKFILLED AND COVERED DURING ABANDONMENT; METER COVERS SHOULD BE RETURNED TO THE METER SHOP.

PARKING METER NOTE

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CONTACT THE PARKING AUTHORITY OF BALTIMORE CITY (PABC) AT 443-573-2800 TO VERIFY THE LOCATIONS OF EXISTING PARKING METERS (SINGLE/OR MULTI SPACE). PLEASE CONTACT THE PARKING METER SHOP 72 HOURS IN ADVANCE FOR MULTI-SPACE / SINGLE SPACE METER BAGGING / SINGLE SPACE HEAD REMOVAL (THE PARKING METER SHOP SHALL REMOVAL ALL METER HEADS AND/OR MULTI-SPACE METERS). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING POSTS WHEN METER HEADS ARE REMOVED AND ALL MULTI-SPACE METER BASES (IF APPLICABLE). THE CONTRACTOR SHALL CONTACT PABC 72 HOURS IN ADVANCE WHEN READY TO RE-INSTALL PARKING METERS (SINGLE AND MULTI-SPACE). THE METER SHOP WILL HAVE NEW POSTS DELIVERED TO THE CONTRACTOR IF APPLICABLE.

PEDESTRIAN DETOUR NOTES

1. PEDESTRIAN DETOUR PLAN IS SET FORTH PER THE 2011 MARYLAND MANUAL OF UNIFORM CONTROL DEVICE (MDMUTCD) USING TYPICAL APPLICATION 29 TITLED "CROSSWALK CLOSURES AND PEDESTRIAN DETOURS".
2. ALL PEDESTRIAN FOOTWAYS SHALL BE COMPLAINT WITH ADA STANDARDS AND CITY OF BALTIMORE STANDARDS AND SPECIFICATIONS
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR FEET (4') WIDE PEDESTRIAN FOOTWAY OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR WHILE ACTIVELY WORKING ON THE SIDEWALK IN ACCORDANCE WITH ADA GUIDELINES AND BALTIMORE CITY STANDARDS AND SPECIFICATIONS
4. ALL PEDESTRIAN DETOURS SHALL BE APPROVED BY THE DOT - TRAFFIC SECTION.

TRAFFIC ENGINEERING NOTES

1. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF TRANSPORTATION AT (443) 984-2150 TWO (2) WEEKS BEFORE CONSTRUCTION BEGINS AND ONE (1) WEEK PRIOR TO ANY CHANGES TO THE MAINTENANCE OF TRAFFIC (M.O.T.).
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT FOR THE DURATION OF THE CONTRACT.
3. ALL TRAFFIC CONTROL MUST ADHERE TO THE CURRENT EDITIONS OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE MARYLAND SHA WORK ZONE TRAFFIC CONTROL STANDARDS AND THE CITY OF BALTIMORE BOOK OF STANDARDS.
4. IN ORDER TO WORK IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE DEPARTMENT OF TRANSPORTATION (DOT) PERMITS DIVISION. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THE DOT RIGHT OF WAY PERMITS DIVISION IN THE HARRY S. CUMMINGS BUILDING LOBBY, 401 E. FAYETTE STREET, TELEPHONE (410) 396-6865, OR (410) 396-4508; EMAIL ROW.PERMIT.DOCUMENTS@BALTIMORECITY.GOV. DURING THE PERMIT REVIEW PROCESS, THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO ANY PREVIOUS COSTS. EMAIL A COPY OF THE PERMIT, NOTIFICATION FORM AND DRAWING TO STREET CUT INSPECTIONS, 48 HRS. PRIOR TO WORKING AT STREETCUTS@BALTIMORECITY.GOV. IF YOU HAVE ANY QUESTIONS, CALL 410-396-2889.
5. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR FEET (4') WIDE PEDESTRIAN FOOTPATH OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR, APPROVED BY DOT TRAFFIC, WHILE ACTIVELY WORKING IN THE SIDEWALK IN ACCORDANCE WITH ADA GUIDELINES AND APPROPRIATE SHA AND CITY STANDARDS.
6. ALL STREET LIGHTS, CABLES, CONDUITS AND HAND BOXES MUST BE PROTECTED THROUGHOUT ALL PHASES OF CONSTRUCTION. ANY DAMAGES TO STREET LIGHTS, HAND BOXES, CABLES AND CONDUITS RESULTING FROM CONSTRUCTION WILL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO CONTACT MR. KENITH CHING OF STREET LIGHTING MAINTENANCE AT 410-396-1331 FOUR (4) WEEKS PRIOR TO CONSTRUCTION.
7. ALL EXCAVATION SHALL BE PLATED AT THE END OF EACH WORKING DAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. STEEL PLATES SHALL BE INSTALLED PER STANDARD BC-576.17 AND SHALL BE CLEARLY MARKED SO THAT OWNERSHIP IS EASILY DISCERNABLE.
8. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE (1) ELEVEN (11') FOOT LANE OF TRAFFIC IN EACH DIRECTION ON RUTLAND AVE, & ASHLAND AVE AT ALL TIMES. ANY PROPOSED ROADWAY/ALLEY CLOSURES AND/OR DETOURS SHALL BE COORDINATED WITH ADJACENT PROPERTY OWNERS AND APPROVED IN ADVANCE BY THE TRAFFIC DIVISION OF THE DEPARTMENT OF TRANSPORTATION.
9. NO LANE CLOSURES OR DISRUPTIONS OF TRAFFIC BETWEEN THE HOURS OF 6AM-9AM AND 3PM-6PM WEEKDAYS. THE FULL WIDTH OF ROADWAY SHALL BE OPEN TO TRAFFIC AT THE END OF EACH WORKDAY.
10. THE CONTRACTOR SHALL MAINTAIN AN INGRESS TO ALL LOCAL RESIDENCE AND BUSINESSES.
11. THE CONTRACTOR IS TO USE EXTREME CAUTION DUE TO BURIED CABLE AND PRESSURE GAS LINES IN THIS AREA. THE CONTRACTOR, AT THE CONTRACTORS EXPENSE, WILL REPAIR ANY DAMAGE.
12. THE CONTRACTOR IS RESPONSIBLE FOR ANY PAVEMENT MARKINGS AND SIGNS DAMAGES OR DESTROYED DURING CONSTRUCTION INCLUDING THOSE OUTSIDE PROJECT LIMITS.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY TEMPORARY "NO STOPPING" PROHIBITION SIGNING THAT WILL BE NECESSARY TO COMPLETE THIS PROJECT. A MINIMUM OF SEVENTY-TWO (72) HOURS' NOTICE IS REQUIRED FOR ANY TEMPORARY PARKING RESTRICTIONS.
14. THE CONTRACTOR SHALL NOTIFY THE BALTIMORE TRANSPORTATION MANAGEMENT CENTER AT (443) 984-2189 AND TMC.DOT@BALTIMORECITY.GOV WHEN IMPLEMENTING ANY LANE CLOSURES, ROADWAY CLOSURES, OR DETOURS AS INDICATED IN AN APPROVED TRAFFIC CONTROL PLAN
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL, AND MAINTAIN ALL TRAFFIC CONTROL EQUIPMENT FOR THE DURATION OF THIS CONTRACT
16. THE MOT PLANS SUBMITTED SHOULD BE SITE-SPECIFIC AND HAVE DETAILS THAT CORRESPOND WITH THE ROAD AND THE PROPOSED WORK BEING CARRIED OUT, IF THERE ARE CHANGES AFTER THE APPROVAL THERE WILL NEED TO BE REVISIONS DONE IF REQUESTED AT THE PERMIT STAGE.

UTILITY NOTES

1. ALL CHANNELS IN MANHOLES MUST BE CONSTRUCTED TO CONFORM AS CLOSE AS POSSIBLE TO THE STANDARD CHANNEL CALLED FOR IN PROFILES. SEE BALTIMORE CITY STD. DETAILS BC 831.35-40.
2. GRAVEL CRADLE IS REQUIRED UNDER ALL PIPES. SEE GRAVEL CRADLE AND BACKFILL DETAIL FOR P.V.C PIPE SEE BC 830.1-03.
3. JOINTS FOR P.V.C- SRD-26 & 35 SHALL BE PUSHED ON IN ACCORDANCE WITH A.S.T.M. D-3212.
4. ALL P.V.C. PIPE SHALL CONFORM TO A.S.T.M. SDR 26 & 36 FOR P.V.C. COMPOUND.
5. EXISTING SANITARY SEWER FLOWS AND ALL OTHER UTILITY SERVICES MUST BE MAINTAINED AT ALL TIMES.
6. SANITARY SEWER CONNECTIONS TO BE LAID ON A MINIMUM OF 2% GRADE.
7. CONTRACTOR TO MAINTAIN UNOBSTRUCTED ACCESS TO EXISTING WATER METERS DURING CONSTRUCTION.
8. CONTRACTOR SHALL ENSURE THAT EVERY MANHOLE FRAME, COVER, AND CLEANOUT WHICH IS EXISTING AND TO REMAIN SHALL HAVE TOPS RESET TO NEW SIDEWALK OR STREET GRADES.
9. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR ALL EXISTING UTILITIES
10. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE AND IN SERVICE THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE NOTED. OWNER AUTHORIZATION IS REQUIRED PRIOR TO INTERRUPTING UTILITY SERVICES.
11. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL UTILITIES INCLUDING INLETS AND FIRE HYDRANTS WITHIN AND ADJACENT TO THE AREA OF WORK. ANY DAMAGES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
12. MAINTAIN UNOBSTRUCTED ACCESS TO EXISTING WATER METERS DURING CONSTRUCTION.
13. CONTRACTOR SHALL ENSURE THAT EVERY MANHOLE FRAMES AND COVER AND CLEANOUT WHICH IS EXISTING AND TO REMAIN SHALL HAVE TOPS RESET TO NEW SIDEWALK OR STREET GRADES.
14. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE AND IN SERVICE THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE NOTED. OWNER AUTHORIZATION IS REQUIRED PRIOR TO INTERRUPTING UTILITY SERVICES.
15. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL UTILITIES INCLUDING INLETS AND FIRE HYDRANTS WITHIN AND ADJACENT TO THE AREA OF WORK. ANY DAMAGES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

CONDUIT NOTES

1. EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. MK CONSULTING ENGINEERS, LLC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATIONS TO HIS OWN SATISFACTION, PRIOR TO COMMENCING WORK.
2. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ANY DEVIATIONS FROM THE PLANS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 14 DAYS PRIOR TO STARTING ANY WORK:

   MR. DAMONNEN TAYLOR (STREET LIGHT MAINTENANCE) 410-396-1311
   MR. JEROME WRIGHT (CONDUIT MAINTENANCE) 410-396-1515
4. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING UTILITIES.
5. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST BALTIMORE CITY STANDARDS, SPECIFICATIONS, AND DETAILS AS SUPPLEMENTED BY THE PROJECT SPECIAL PROVISIONS.
6. PROPOSED MANHOLES ARE REQUIRED TO HAVE A MINIMUM OF TWO(2) FEET OF COVER FROM THE PROPOSED GROUND LINE TO THE TOP OF THE MANHOLE ROOF SLAB STD. DETAIL BC 825.11.
7. FURNISH AND MAINTAIN ALL NECESSARY PUMPS, FLUMES, GUTTERS, ETC., TO KEEP THE EXCAVATION FREE FROM WATER AT ALL TIMES DURING THE PROGRESS OF WORK. WATER SHALL BE DIRECTED TO A POINT APPROVED BY THE CITY.
8. TRENCHES FOR UNDERGROUND DUCTBANK SHALL BE EXCAVATED TO A UNIFORM GRADE AND BRACED AND SHEATHED. WATER SHALL BE REMOVED AS NECESSARY. NO CONDUIT SHALL BE LAID UNDER WATER.
9. HORIZONTAL BENDS AND SWEEPS IN THE PRIMARY MULTI-DUCT CONDUIT SYSTEM SHALL HAVE A MINIMUM RADIUS OF 35' OR AS NOTED ON THE PLANS. IF DUCT SECTIONS ARE TO BE INSTALLED WITH A RADIUS LESS THAN 35', THE DUCT SHALL BE COMPOSED OF PREFORMED FACTORY-FABRICATED SEGMENTAL SECTIONS. ALL VERTICAL BENDS SHALL HAVE A MINIMUM RADIUS OF 20'.
10. HORIZONTAL BENDS AND SWEEPS IN THE SECONDARY OR UNIFORM SIZE DUCT SYSTEM SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

    ALL SWEEPS SHALL HAVE A MINIMUM 35' RADIUS
    FOR 5" ID PVC CONDUIT: ALL BENDS SHALL HAVE A MINIMUM 5' RADIUS

    ALL SWEEPS SHALL HAVE A MINIMUM 18' RADIUS
    FOR 4" ID PVC CONDUIT:ALL BENDS SHALL HAVE A MINIMUM 3.5' RADIUS

    ALL SWEEPS SHALL HAVE A MINIMUM 15' RADIUS
    FOR 3" ID PVC CONDUIT: ALL BENDS SHALL HAVE A MINIMUM 1.5' RADIUS
11. THE CONTRACTOR SHALL USE ONLY FACTORY PRE-FORMED BENDS
12. ALL DUCTS SHALL LEAVE AT 90 DEGREES TO THE MANHOLE WALL AND PROCEED AT THAT ANGLE FOR A MINIMUM OF FIVE (5 FEET UNLESS OTHERWISE SHOWN).
13. ALL CONCRETE DUCT ENCASEMENT SHALL BE MIX NO. 1.
14. ALL CONCRETE ENCASED PVC DUCT SHALL BE A MINIMUM CLASS OF DB-120 WITH A WIRE TEMPERATURE RATING OF NINETY (90) DEGREES (C) PER BALTIMORE CITY SPECIFICATION, SECTION 26 07 01.1.
15. ALL UNDERGROUND DUCTBANKS SHALL HAVE MAGNETICALLY DETECTABLE PLASTIC WARNING TAPE INSTALLED 12" ABOVE THE DUCT FOR THE ENTIRE LENGTH OF THE DUCT.
16. CONTRACTOR MAY BE REQUIRED TO ADJUST THE HORIZONTAL AND/OR VERTICAL CONDUIT ALIGNMENT AS SHOWN ON THE PLANS TO AVOID CONFLICTS WITH EXISTING UTILITIES. ALL ALIGNMENTS ARE TO BE APPROVED BY THE ENGINEER.
17. AT ALL ENTRANCES INTO MANHOLES, THE CONTRACTOR SHALL FURNISH AND INSTALL DUCT TERMINATORS IN ACCORDANCE WITH BALTIMORE CITY STD. DETAIL BC 802.03-3.
18. UPON COMPLETION OF THE CONDUIT INSTALLATION, THE CONTRACTOR SHALL CLEAR ALL CONDUITS OF ANY DIRT AND DEBRIS AND TEST THE ADEQUACY OF THE CONDUIT WITH AN APPROVED MANDREL DEVICE. UPON CORRECTION OF DEFICIENCY, IF ANY, THE CONTRACTOR SHALL INSTALL IN EACH DUCT, A BRAIDED NYLON LINE HAVING A MINIMUM TENSILE STRENGTH OF FOUR HUNDRED (400) POUNDS. THESE COSTS SHALL BE INCIDENTAL TO CONDUIT INSTALLATION.
19. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT PRINTS ON WHICH THEY SHALL NOTE, IN RED, THE HORIZONTAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND APPURTENANCES INSTALLED. THIS "AS-BUILT" SET OF PRINTS SHALL BECOME PROPERTY OF THE CITY OF BALTIMORE AT THE TERMINATION OF THE PROJECT.
20. CONTRACTOR TO REMOVE EXISTING CONDUIT TO BE ABANDONED AS NECESSARY TO PERFORM NEW CONSTRUCTION AND PLUG EXISTING CONDUIT WITH MIX NO. 2 CONCRETE. PRICE AND PAYMENT SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW CONDUIT AND MANHOLES.
21. THE CONDUIT DUCT SECTION SHALL HAVE A MINIMUM COVER OF THREE FEET SIX INCHES (3'-6") UNDER ROADWAYS AND FOUR FEET (4') UNDER SIDEWALKS. THE CONTRACTOR MAY BE REQUIRED TO ADJUST THE DEPTH OF THE CONDUIT TO AVOID CONFLICTS WITH EXISTING OR PROPOSED UTILITIES. WHERE IT IS NOT POSSIBLE TO ADHERE TO THE MINIMUM COVER SPECIFIED BECAUSE OF THE UNDERGROUND OBSTRUCTIONS, THE ENGINEER SHALL GIVE APPROVAL BEFORE THE CONFIGURATION OF THE DUCT SECTION OR DEPTH OF COVER IS REVISED.
22. ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO INLETS, MANHOLES, HAND HOLES, MECHANICAL LIDS, FIRE HYDRANTS, VALVE BOXES, ETC. WITHIN THE LIMITS OF DISTURBANCE TO BE ADJUSTED TO FINISHED GRADE UNLESS OTHERWISE NOTED.

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

MK CONSULTING ENGINEERS
ENGINEER: RYAN J. PIKE
DATE: ____ LIC. NO. 51066
DESIGNED: RJP
DRAWN BY: RJP
CHECKED BY: MKC

WARD: 15
SECTION: 26 SEC. APP.
BLOCK: 2906
LOT: 15

	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY														
DATE														

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. 51066 EXPIRATION DATE: 06-07-27

mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: 667-309-6193

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ____

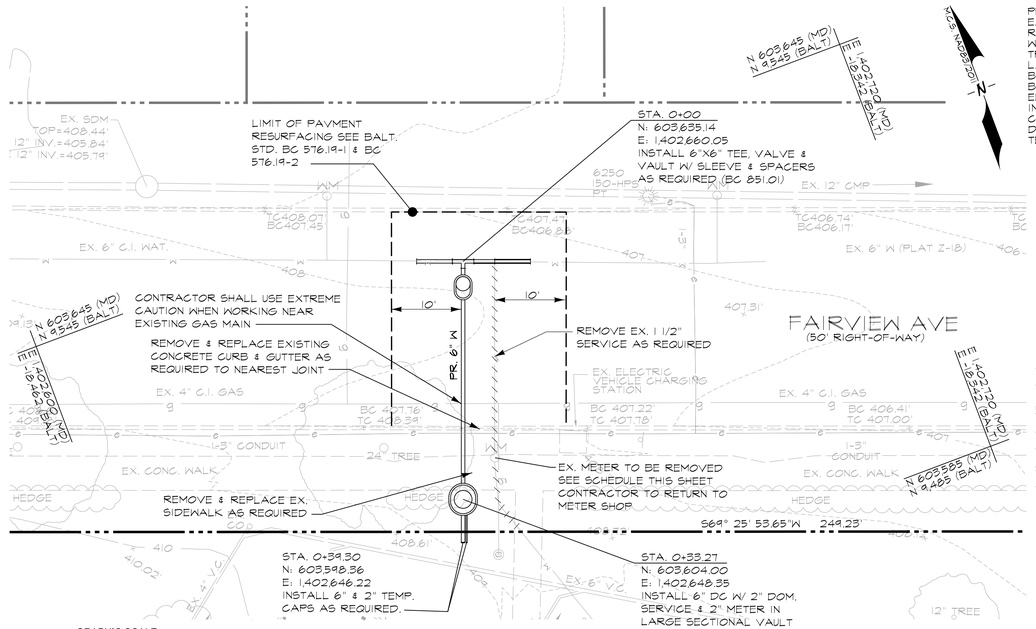
FOREST PARK BRANCH LIBRARY ADDITION AT 3023 GARRISON BLVD.

GENERAL NOTES

SCALE: NOT TO SCALE AUGUST 29, 2025

TRANSPORTATION ENGINEERING AND CONSTRUCTION DEVISION SHEET 2 OF 5

PLOTTED: 8/29/2025
BY:
FILE:G:\2018\18049-500 - PRIME AE - Forest Park Branch Library CD and CA Services\Drawings\Developers Agreement\C-2_GeneralNotes.dgn



WATER METER PLAN
SCALE: 1" = 10'

ABBREVIATIONS

PROP.	PROPOSED
EX.	EXISTING
R/W	RIGHT OF WAY
W	WATER
TRAV.	TRAVERSE
L.F.	LINEAR FEET
BC.	BALTIMORE CITY
BALT.	BALTIMORE
ELEV.	ELEVATION
INV.	INVERT
CONC.	CONCRETE
DC.	DETECTOR CHECK
TEMP.	TEMPORARY.

PROPOSED LEGEND

- RIGHT-OF-WAY
- PROP. 6" W. — PROP. WATER LINE
- PROP. WATER METER
- PROP. WATER VALVE

EXISTING LEGEND

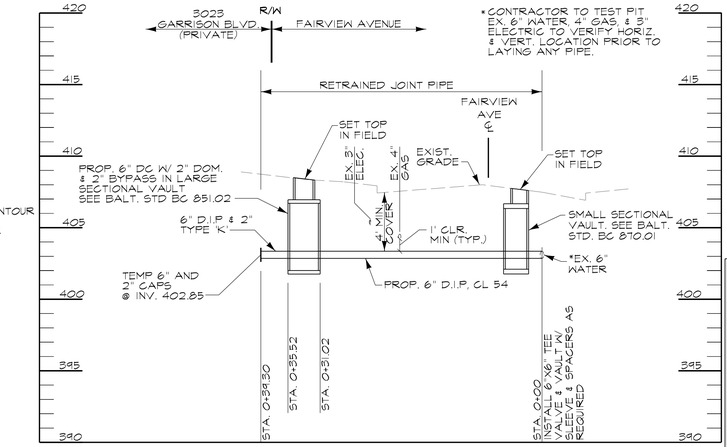
- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS
- EX. ELECTRIC
- EX. STORM DRAIN
- EX. WATER
- EX. WATER VALVE
- EX. WATER METER
- EX. FIRE HYDRANT
- EX. MANHOLE
- EX. CLEANOUT
- EX. SIGN
- EX. UTILITY POLE
- EX. LIGHT POLE

BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAV83/NA2011 EPOCH 2010.) & NAVD88 FOR VERTICAL:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603,643.30828	1,402,551.52030	411.78'	IRON REBAR AND CAP
PSM-2	603,553.83047	1,402,749.59608	406.81'	IRON REBAR AND CAP
PSM-3	603,423.59427	1,402,693.97981	411.06'	IRON REBAR AND CAP

GRAPHIC SCALE
5 0 2.5 5 10
(IN FEET)
1 inch = 5 ft.



WATER SERVICE PROFILE
SCALE: HORIZ. 1"=10'
VERT. 1"=5'

VICINITY MAP
SCALE: 1" = 1000'

BILL OF MATERIALS

QUANTITY	DESCRIPTION	SIZE
40 L.F.	DIP (CL 54) W/ RESTRAINED JOINTS	6"
4 L.F.	COPPER PIPE, TYPE 'K'	2"
1 EA.	TEE	6" X 6"
2 EA.	SLEEVE & SPACER	6"
1 EA.	VALVE	6"
1 EA.	CONCRETE SECTION VAULT	SMALL
1 EA.	DETECTOR CHECK METER	6"
1 EA.	DOMESTIC METER	2"
1 EA.	CONCRETE SECTIONAL VAULT	LARGE
1 EA.	TEMPORARY CAP	6"
1 EA.	TEMPORARY CAP	2"
39 LF	EXISTING WATER SERVICE TO BE REMOVED	1 1/2"

WATER NOTES

1. THE CONTRACTOR MUST NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING WORK. CONTRACTOR MUST NOTIFY BGE (410-281-5507) AT LEAST TWO (2) DAYS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR REQUEST MUST SUBMIT A WRITTEN NOTIFICATION PLANS REVIEW AND INSPECTION SECTION AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION/LAND DISTURBANCE ACTIVITIES TO THE DPW OFFICE OF RESEARCH AND ENVIRONMENTAL PROTECTION. 3001 DRUID PARK DRIVE, ROOM 228 BALTIMORE, MD 21215; FAX 410-523-9047; DPWESCINSPECTIONS@BALTIMORECITY.GOV.
3. FOR SMALL METER INSTALLATION (2 INCHES AND LESS), DPW WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION OF SCHEDULE AND LOCATION AT LEAST 5 WORKING DAYS BEFORE STARTING WORK TO THE BALTIMORE CITY DPW METER SHOP AT, METERINSTALL.APPOINT@BALTIMORECITY.GOV. UPON RECEIPT OF NOTIFICATION, DPW WILL RESPOND TO THE CONTRACTOR WITH AN APPROXIMATE INSTALLATION SCHEDULE.
4. FOR LARGE METER INSTALLATION (3 INCHES OR GREATER), THE CONTRACTOR WILL BE RESPONSIBLE FOR METER INSTALLATION. THE CONTRACTOR SHALL SCHEDULE TO PICK UP THE METER(S) AT THE DPW METER SHOP STORE ROOM THROUGH WRITTEN NOTIFICATION TO DPW METER SHOP STORE ROOM AT KAREN.ARMSTEAD@BALTIMORECITY.GOV. NOTIFICATION IS REQUIRED AT LEAST 2 WORKING DAYS PRIOR TO PICK UP AND SHOULD INCLUDE THE METER INSTALLATION SCHEDULE, LOCATION(S), THE NAME OF THE CONTRACTOR OR COMPANY AND PHONE NUMBER. DPW WILL BE RESPONSIBLE FOR METER INSPECTION AND ERT INSTALLATION, FOLLOWING THE METER INSTALLATION.
5. ALL EXISTING WATER VALVES SHALL BE OPERATED BY WATER AND WASTEWATER MAINTENANCE DIVISION FORCES ONLY. THE CONTRACTOR SHALL NOTIFY MR. ANTHONY STEVENSON (410-978-3481) OR ANTHONY.STEVENSON@BALTIMORECITY.GOV) AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY NECESSARY VALVE OPERATIONS.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PUBLIC WORKS DEVELOPER'S AGREEMENT AND THE CITY OF BALTIMORE BOOK OF STANDARDS, CITY OF BALTIMORE MANUAL OF DESIGN PROCEDURE AND CRITERIA.
7. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER FACILITIES.
8. ALL SERVICES MUST BE FLUSHED PRIOR TO SETTING METERS.
9. SERVICES MUST BE CAPPED AND THE COMPLETED SERVICE WILL BE VISUALLY INSPECTED FOR LEAKS.
10. UNLESS OTHERWISE NOTED IN THE APPROVED PLANS, ALL SERVICES TO BE ABANDONED MUST BE ABANDONED AT THE MAINS AND ALL METERS MUST BE RETURNED TO BALTIMORE CITY DPW METER SHOP.
11. METERS ARE NOT PERMITTED TO BE INSTALLED IN THE ROADWAY OR DRIVEWAYS.
12. METERS DESIGNATED FOR A SPECIFIC LOCATION OR ADDRESS SHALL NOT BE RELOCATED WITHOUT THE WRITTEN PERMISSION FROM THE DPW CUSTOMER SERVICE AND SUPPORT DIVISION.
13. THE PROPOSED WATER SERVICE CONNECTION MUST BE INSTALLED A MINIMUM OF FIVE (5) FEET FROM SANITARY SEWER HOUSE CONNECTION.
14. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF EXISTING WATER MAINS AND ALL UTILITY CROSSINGS PRIOR TO ANY NEW CONSTRUCTION. ANY DEVIATION NOTED FROM TEST PIT INFORMATION WILL REQUIRE RED LINE REVISED PLANS APPROVED BY THE DPW OFFICE OF RESEARCH AND ENVIRONMENTAL PROTECTION. PLANS REVIEW AND INSPECTION SECTION PRIOR TO ANY NEW CONSTRUCTION.

TRAFFIC ENGINEERING NOTES

1. THE CONTRACTOR SHALL CONTACT "THE TRAFFIC SECTION", AT (443) 984-2150 TWO (2) WEEKS BEFORE CONSTRUCTION BEGINS AND ONE (1) WEEK PRIOR TO ANY CHANGES TO THE MAINTENANCE OF TRAFFIC.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT FOR THE DURATION OF THE CONTRACT.
3. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION AND REVISIONS OF THE MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD), THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) WORK ZONE TRAFFIC CONTROL STANDARDS, AND THE CITY OF BALTIMORE BOOK OF STANDARDS.
4. IN ORDER TO WORK IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE DEPARTMENT OF TRANSPORTATION (DOT) PERMITS DIVISION. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THE DOT RIGHT OF WAY PERMITS DIVISION IN THE HARRY S. CUMMINGS BUILDING LOBBY, 401 E. FAYETTE STREET, TELEPHONE (410) 396-6865, OR (410) 396-4508; EMAIL ROW.PERMITDOCUMENTS@BALTIMORECITY.GOV. DURING THE PERMIT REVIEW PROCESS, THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO ANY PREVIOUS COSTS. EMAIL A COPY OF THE PERMIT, NOTIFICATION FORM AND DRAWING TO STREET CUT INSPECTIONS, 48 HRS. PRIOR TO WORKING AT STREETCUTS@BALTIMORECITY.GOV. IF YOU HAVE ANY QUESTIONS CALL (410) 396-2888.
5. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR (4) FOOT WIDE PEDESTRIAN FOOTWAY OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR, APPROVED BY DOT-TRAFFIC, WHILE ACTIVELY WORKING IN THE SIDEWALK IN ACCORDANCE WITH ADA GUIDELINES AND APPROPRIATE SHA AND CITY STANDARDS.
6. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING SIGNALS, ALL LIGHTING AND CONDUIT FACILITIES DURING CONSTRUCTION.
7. ALL EXCAVATIONS AND TRENCHES SHALL BE STEEL PLATED AT THE END OF EACH WORK DAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. STEEL PLATES SHALL BE INSTALLED PER STANDARD (STD. DETAIL BC-76.17) AND SHALL BE CLEARLY MARKED SO THAT OWNERSHIP IS EASILY DISCERNABLE.
8. THE CONTRACTOR SHALL MAINTAIN ONE (1) ELEVEN-FOOT (11') LANE OF TRAFFIC IN EACH DIRECTION OF TRAVEL OR PROVIDE A TWO-MAN FLAGGING OPERATION EQUIPPED WITH "SLOW/STOP" PADDLES.
9. NO LANE CLOSURES OR DISRUPTION OF TRAFFIC BETWEEN THE HOURS OF 7AM-9AM AND 3PM-6PM WEEKDAYS.
10. THE CONTRACTOR SHALL MAINTAIN AN INGRESS AND EGRESS TO ALL LOCAL BUSINESSES.
11. CONTRACTOR TO USE EXTREME CAUTION DUE TO BURIED CABLE IN THIS AREA. THE CITY, AT THE CONTRACTOR'S EXPENSE WILL REPAIR ANY DAMAGE.
12. NO STREET CLOSURES WILL BE ALLOWED.
13. THE CONTRACTOR IS REPONSIBLE FOR ANY SIGNING AND PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION, INCLUDING THOSE OUTSIDE THE PROJECT LIMITS.
14. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY TEMPORARY "NO STOPPING" PROHIBITION SIGNING THAT WILL BE NECESSARY TO COMPLETE THIS PROJECT A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE IS REQUIRED FOR ANY TEMPORARY PARKING RESTRICTIONS.
15. THE CONTRACTOR SHALL NOTIFY THE BALTIMORE TRANSPORTATION MANAGEMENT CENTER AT (443) 984-2184 AND TMC.DOT@BALTIMORECITY.GOV WHEN IMPLEMENTING ANY LANE CLOSURES, ROADWAY CLOSURES, OR DETOURS AS INDICATED IN AN APPROVED TRAFFIC CONTROL PLAN THEY SHALL ALSO NOTIFY THE TMC WHEN THEY ARE OFF THE ROADWAY.

STANDARD HIGHWAY NOTES

1. FAIRVIEW AVENUE IS CLASSIFIED "LOCAL" WITH FLEXIBLE PAVEMENT. THE STREET REPAIRS SHALL BE DONE IN ACCORDANCE WITH STD. DETAILS B.C. 576.19-1 AND B.C. 576.19-2.
2. DISTURBED CURBS SHALL BE REPLACED IN-KIND TO THE NEAREST JOINT.
3. SIDEWALKS SHALL BE REPLACED JOINT-TO-JOINT WITH 5 INCHES OF MIX NO. 2 CONCRETE ON 3 INCHES OF GR-6.
4. ALL EXCAVATIONS AND TRENCHES SHALL BE STEEL PLATED AT THE END OF EACH WORKDAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. STEEL PLATES SHALL BE INSTALLED PER STANDARD BC-576.17 AND SHALL BE CLEARLY MARKED SO THAT OWNERSHIP IS EASILY DISCERNABLE.
5. AFTER COMPLETING CONSTRUCTION, RESTORE GRASS AREAS WITH 4" TOPSOIL, SEED AND MULCH.

NOTES

1. ALL WORK TO BE PERFORMED UNDER SAME DAY STABILIZATION.
2. CONTRACTOR TO NOTIFY STANLEY JACOBS AT (410) 396-2888 PRIOR TO ALL EXISTING STREET AND PAVEMENT DISTURBANCES.
3. CONTRACTOR TO NOTIFY ENGINEER AND CITY OF BALTIMORE IF THE CLEARANCES WITH THE UTILITIES SHOWN CANNOT BE ACHIEVED.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE WORK SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.

SIGNED P.E.

NAME DATE

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: DEPARTMENT OF GENERAL SERVICES
ABEL WOLMAN MUNICIPAL BUILDING
200 NORTH HOLLIDAY STREET
BALTIMORE, MD 21202

DEPARTMENT OF GENERAL SERVICES PROJECT #____

WATER SHUT-OFF DIAGRAM
SCALE: 1" = 60'

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

SITE ANALYSIS

LIMIT OF WORK:	892 S.F. OR 0.02 AC
IMPERVIOUS STABILIZATION AREA:	781 S.F. OR 0.018 AC
TOTAL EARTHWORK:	CUT = 71.4 C.Y. FILL = 71.4 C.Y. CUT / FILL RATIO = 1 : 1

EXCESS CUT MATERIAL SHALL BE DISPOSED OF OFFSITE AT A LOCATION WITH AN APPROVED SEDIMENT CONTROL PLAN AND OPEN GRADING PERMIT.

EXISTING WATER SERVICE / METER REMOVAL SCHEDULE

NO.	OWNER	SERVICE ADDRESS	ACCOUNT NO.	METER NO.	SERVICE SIZE	METER SIZE
1	MAYOR & CITY COUNCIL	3023 GARRISON BLVD.			1-1/2"	

CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

MK CONSULTING ENGINEERS

ENGINEER: RYAN J. PIKE

DATE: _____ LIC. NO. 51066

DESIGNED: RP
DRAWN BY: SG
CHECKED BY: PC

WATER PLAT Z-17 & Z-18
SERVICE ZONE (3 W)
WORKING PRESSURE XX PSI
TEST PRESSURE 150 PSI

WARD:15
SECTION: 26 | SEC. | APP.
BLOCK:2986
LOT:15

	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY														
DATE														

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. 51066 EXPIRATION DATE: 06-07-25

mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: (667) 309-6193

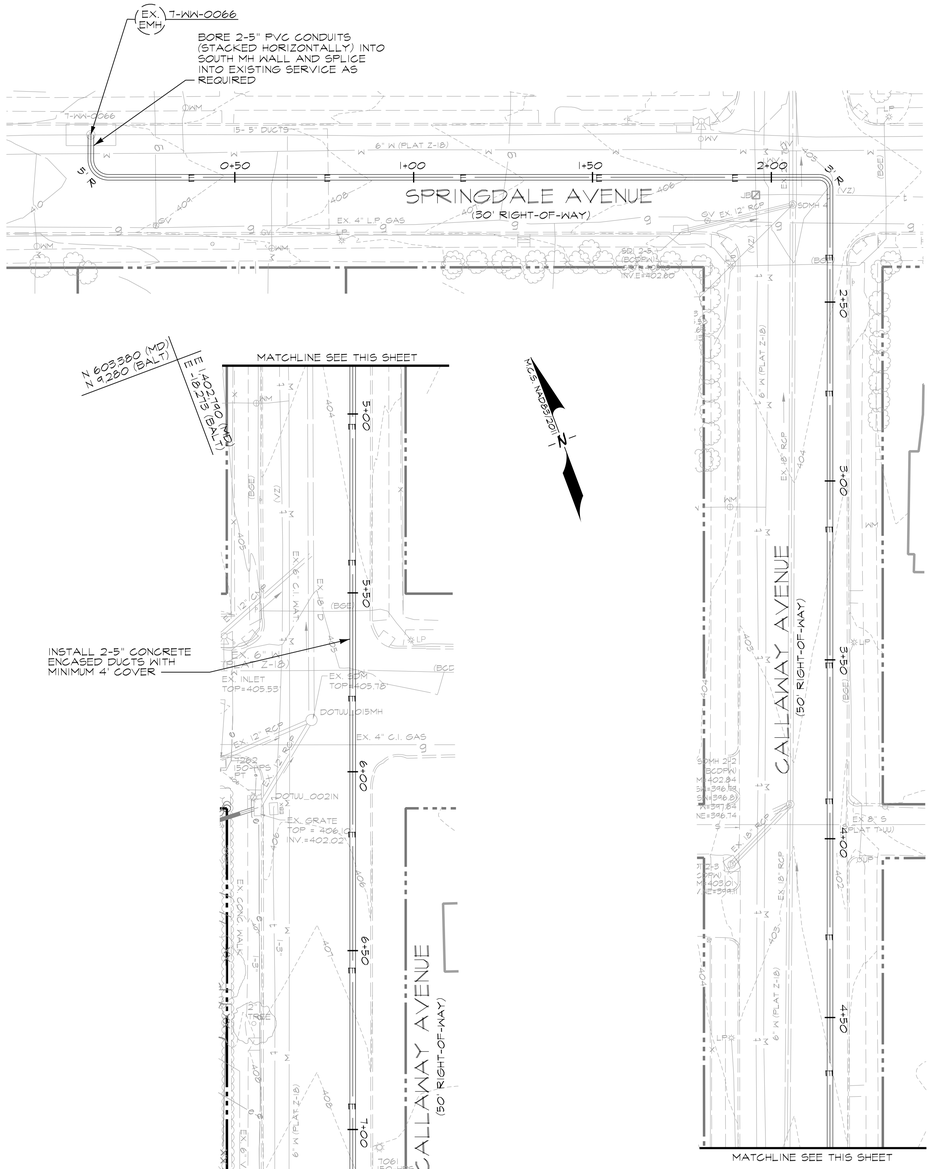
CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ___

FOREST PARK BRANCH LIBRARY ADDITION
AT
3023 GARRISON BLVD.
PROPOSED 2" DOM. SERVICE W/ 6" DC
&
ABANDONMENT OF 1-1/2" DOM. SERVICE

SCALE:AS SHOWN DATE: AUGUST 29, 2025

WATER & WASTEWATER ENGINEERING DIVISION | SHEET 3 OF 5

PLOTTED: 8/29/2025
BY: EMA
E:\EMA Projects\2018\18049-500 - PRIME AE - Forest Park Branch Library, CD, and CA Services\Drawings\Developers Agreement\C-3_Water Meter Plan.dgn



CONDUIT PLAN
SCALE: 1" = 20'

NOTES

1. FOR CONDUIT NOTES, SEE SHEET 2, "GENERAL NOTES".
2. ALL PAVEMENT & TRENCH REPAIR IN CALLAWAY & SPRINGDALE AVENUES SHALL BE PER BALTIMORE CITY STD. DETAIL BC 576.19.
3. SEE CONDUIT PROFILE SHEET 5.

ABBREVIATIONS

PROP.	PROPOSED
EX.	EXISTING
R/W	RIGHT OF WAY
W.	WATER
TRAV.	TRAVERSE
L.F.	LINEAR FEET
BC.	BALTIMORE CITY
BALT.	BALTIMORE
ELEV.	ELEVATION
INV.	INVERT
CONC.	CONCRETE
DC.	DETECTOR CHECK
TEMP.	TEMPORARY.

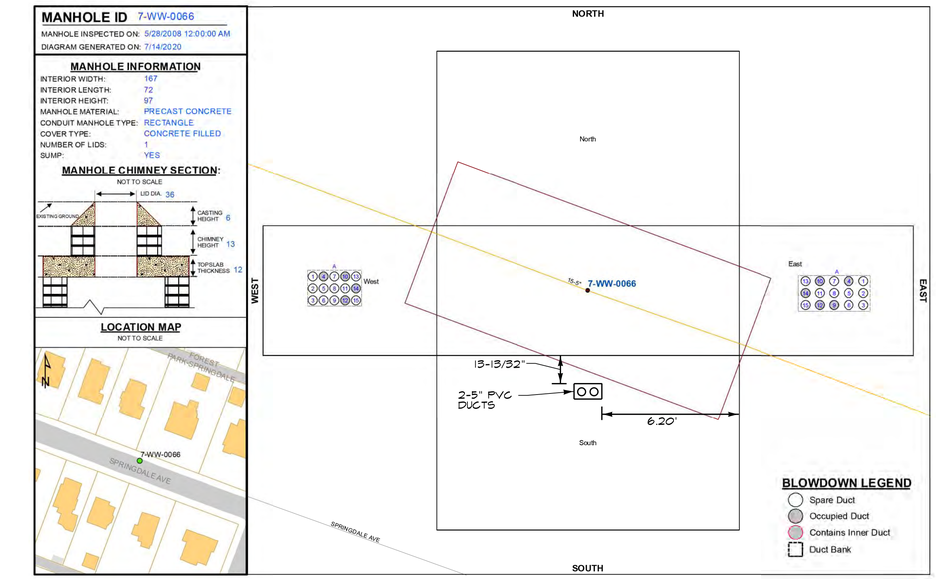
BENCHMARK DATA

THE LOCATION OF IMPROVEMENTS SHOWN HEREON ARE DERIVED FROM MARYLAND COORDINATE SYSTEM (NAVB3/NA2011 EPOCH 2010) & NAVB8 FOR VERTICAL:

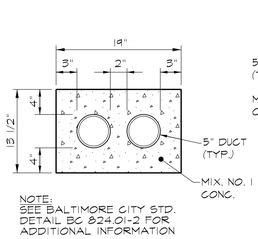
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
PSM-1	603643.30828	1402531.52030	411.78'	IRON REBAR AND CAP
PSM-2	603553.83041	1402744.58608	408.81'	IRON REBAR AND CAP
PSM-3	603423.59427	1402683.91985	411.06'	IRON REBAR AND CAP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

VICINITY MAP
SCALE: 1" = 1000'

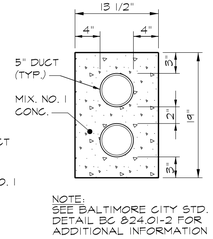


MANHOLE BLOWDOWN DETAIL
SCALE: NOT TO SCALE



NOTE:
SEE BALTIMORE CITY STD. DETAIL BC 824.01-2 FOR ADDITIONAL INFORMATION

SECTION A-A
2-5" PVC (2W X 1H) CONCRETE ENCASED
SCALE: NOT TO SCALE



NOTE:
SEE BALTIMORE CITY STD. DETAIL BC 824.01-2 FOR ADDITIONAL INFORMATION

SECTION B-B
2-5" PVC (1W X 2H) CONCRETE ENCASED
SCALE: NOT TO SCALE

PROPOSED LEGEND

- RIGHT-OF-WAY
- 70 — PROP. INDEX CONTOUR
- 69 — PROP. INTERMEDIATE CONTOUR
- PROP. CONCRETE WALK
- PROP. CONCRETE CURB & GUTTER
- PROP. 15" RCP — PROP. STORM DRAIN
- E — PROP. ELECTRICAL DUCTBANK
- APPROX. LIMIT OF FULL DEPTH PAVING REPAIR. SEE BALT. CITY STD BC 576.19-1 & 579.19-2.

EXISTING LEGEND

- -150- EX. INDEX CONTOUR
- 152 EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- g EX. GAS
- e EX. ELECTRIC
- EX. 18"D EX. STORM DRAIN
- EX. 8" SAN. EX. SANITARY SEWER
- EX. 10" WATER EX. WATER
- WV EX. WATER VALVE
- WM EX. WATER METER
- EX. FIRE HYDRANT
- EX. SANITARY MANHOLE
- EX. MANHOLE
- CO. EX. CLEANOUT
- EX. SIGN
- EX. UTILITY POLE
- EX. LIGHT POLE

AS-BUILT CERTIFICATION

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SIGNED P.E.

NAME DATE

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

BILL OF MATERIALS

QUANTITY	DESCRIPTION	SIZE
772 L.F.	2-5" PVC CONCRETE ENCASED DUCTBANK	5"
1	CORE DRILL 2-5"	5"
2	TEMPORARY 5" PVC CAPS	5"

CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

MK CONSULTING ENGINEERS														
ENGINEER: RYAN J. PIKE	WARD: 15													
DATE: ____ LIC. NO. 51066	SECTION: 26	SEC.	APP.											
DESIGNED: RJP	BLOCK: 2906													
DRAWN BY: RJP	LOT: 15													
CHECKED BY: MKC	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
	BY													
	DATE													

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mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: 667-309-6193

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ____

FOREST PARK BRANCH LIBRARY ADDITION
AT
3023 GARRISON BLVD.

CONDUIT PLAN
SPRINGDALE & CALLAWAY AVENUE

SCALE: AS SHOWN AUGUST 29, 2025

TRANSPORTATION ENGINEERING AND CONSTRUCTION DEVISION SHEET 4 OF 5

PLOTTED: 8/29/2025
BY:
I:\EMD\Projects\2018\18049-500 - PRIME AE - Forest Park Branch Library CD and CA Services\Drawings\Developers Agreement\C-4 Conduit Plan.dgn

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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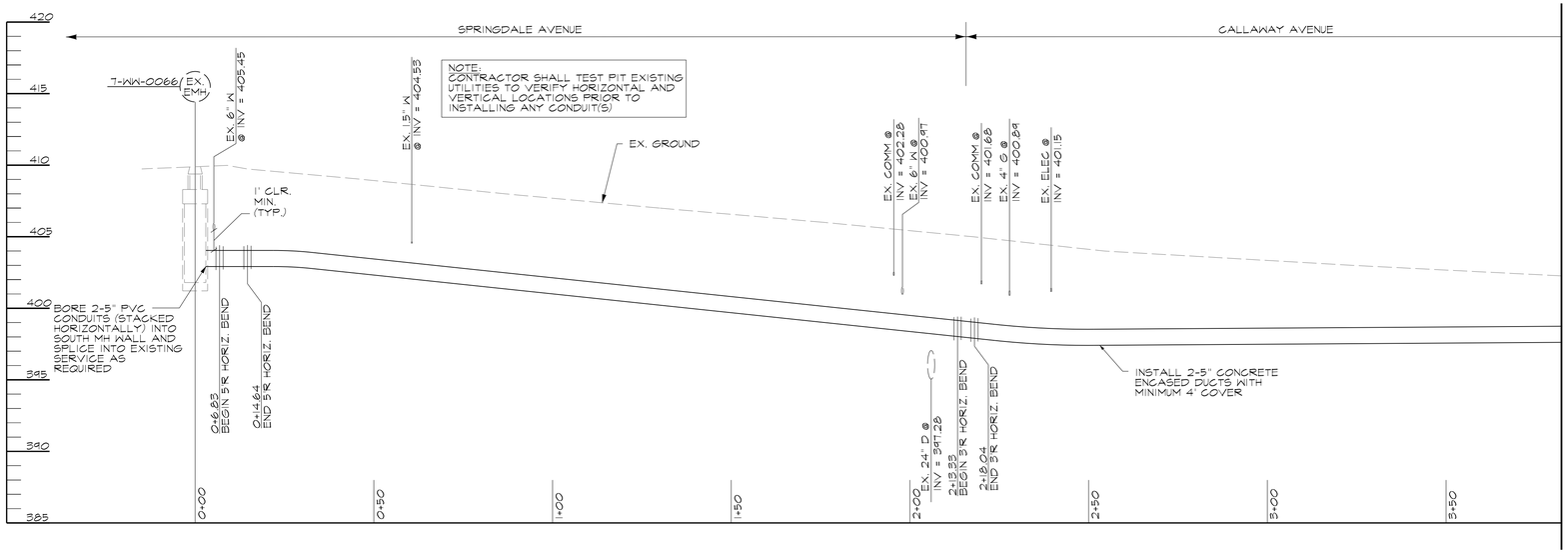
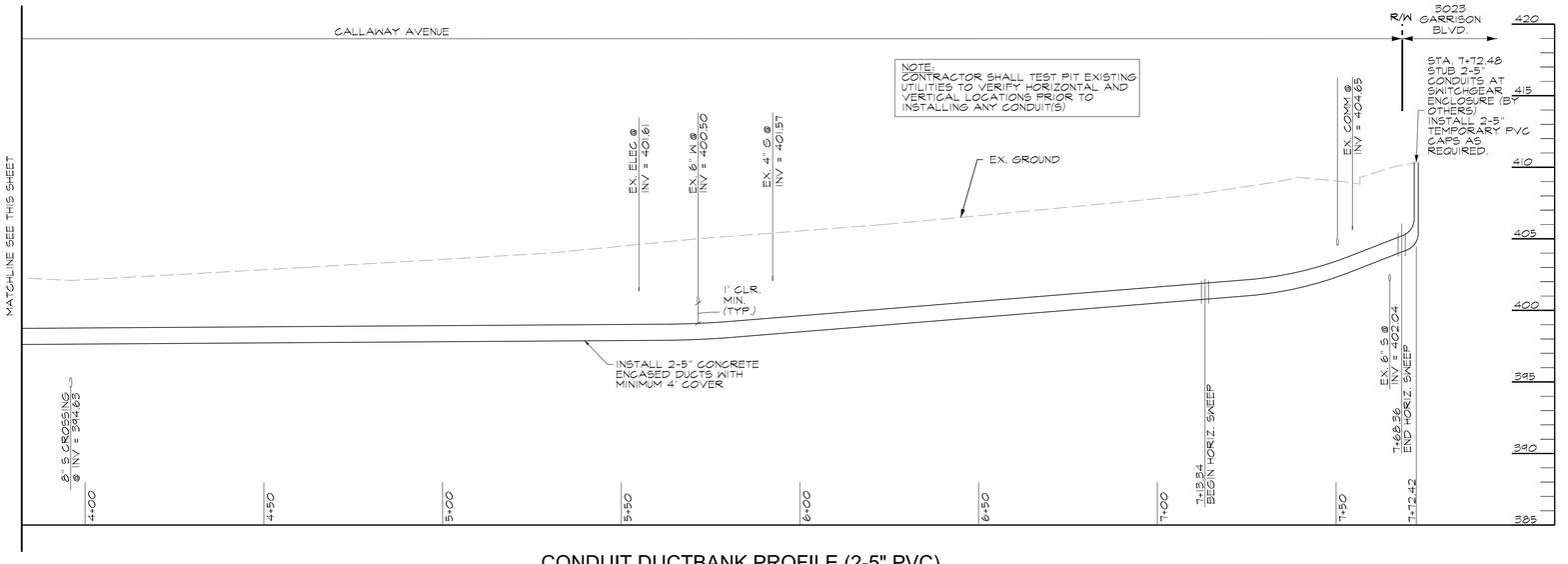
VICINITY MAP

SCALE: 1" = 1000'





CONDUIT DUCTBANK PROFILE (2-5" PVC)

SCALE: HORZ.: 1" = 20'
VERT.: 1" = 5'

PROPOSED LEGEND

- RIGHT-OF-WAY
- 70 — PROP. INDEX CONTOUR
- 69 — PROP. INTERMEDIATE CONTOUR
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SIGNED P.E.

NAME DATE

OWNER: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

DEVELOPER/APPLICANT: MAYOR & CITY COUNCIL
3023 GARRISON BLVD.
BALTIMORE, MD 21215

GRAPHIC SCALES

20 0 10 20 40
HORZ. 1 inch = 20 ft.

5 0 5 10
VERT. 1 inch = 5 ft.

CHIEF, OFFICE OF ENGINEERING, AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. ___

FOREST PARK BRANCH LIBRARY ADDITION
AT
3023 GARRISON BLVD.

CONDUIT PROFILE
SPRINGDALE & CALLAWAY AVENUE

MK CONSULTING ENGINEERS

ENGINEER: RYAN J. PIKE
DATE: _____ LIC. NO. 51066
DESIGNED: RJP
DRAWN BY: RJP
CHECKED BY: MKC

WARD: 15
SECTION: 26 SEC. APP.
BLOCK: 2906
LOT: 15

	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY														
DATE														

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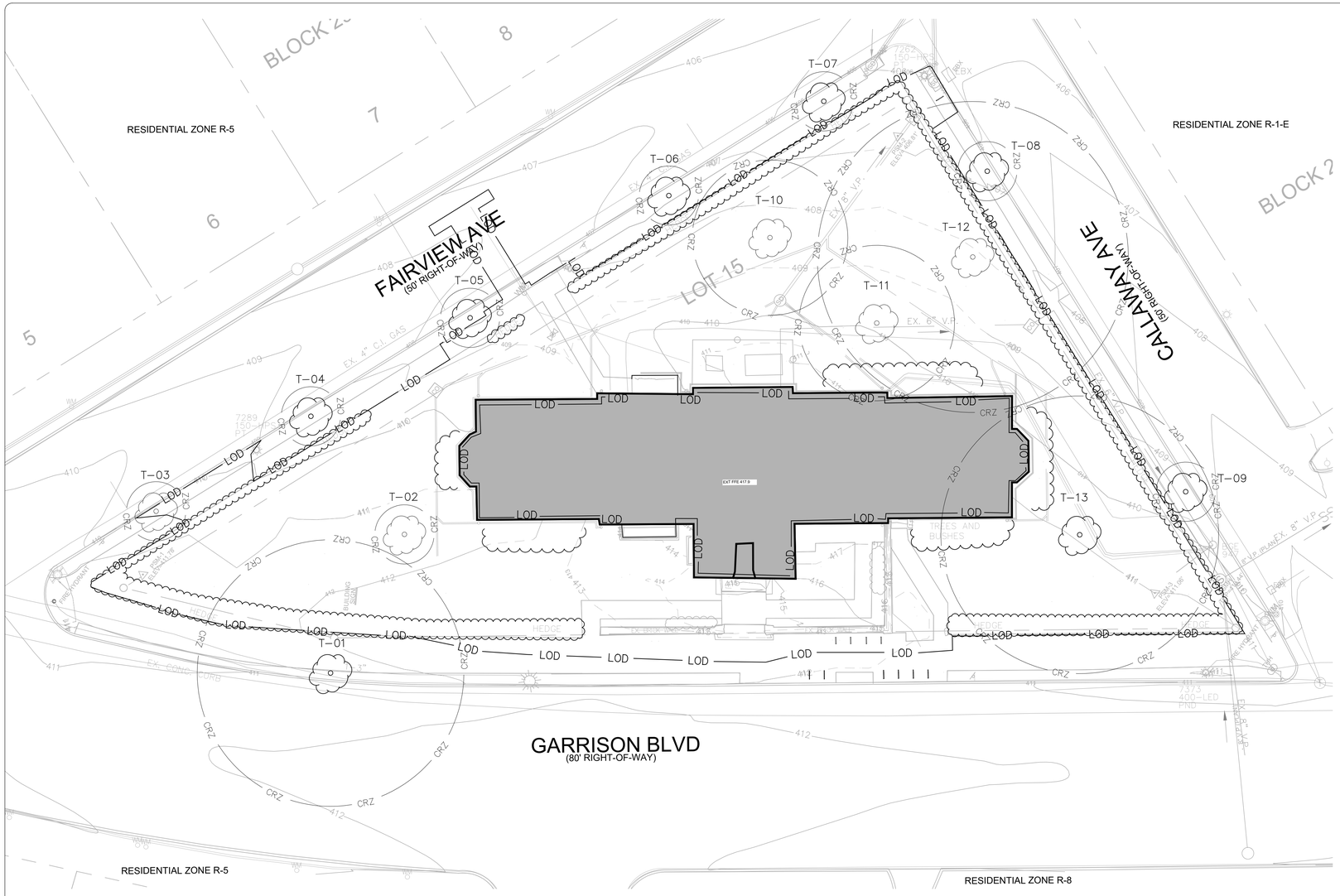
mk Consulting Engineers, LLC
The Star Building
1801 Porter Street, Suite 401
Baltimore, MD 21230
Phone: 667-309-8193

SCALE: AS SHOWN AUGUST 29, 2025

TRANSPORTATION ENGINEERING AND CONSTRUCTION DEVISION SHEET 4 OF 5

PLOTTED: 8/29/2025
BY: EMA
E:\MK Projects\2018\18049-500 - PRIME AE - Forest Park Branch Library CD and CA Services\Drawings\Developers Agreement\C-5_Conduit Profile.dgn

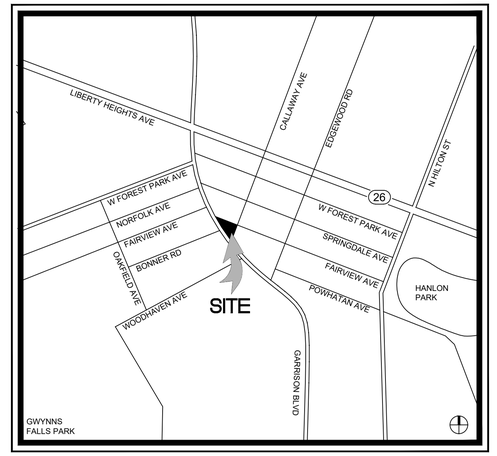


1 SIMPLIFIED FOREST STAND DELINEATION
PLAN

SCALE: 1" = 16'-0"

0' 4' 8' 16' 32'

VICINITY MAP:



SCALE: 1"=1,000'

LEGEND:

T-1 — EXISTING TREE WITH CRITICAL ROOT ZONE

LOD — LIMIT OF DISTURBANCE

SHRUB OR OTHER VEGETATION BOUNDARY

NOTES:

NO SOILS LINES SHOWN, THE ENTIRE SITE AND SURROUNDING AREA CONTAINS SOIL TYPE: 26UB - MONTALTO-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES, NOT HYDRIC, DRAINAGE CLASS: C

NO STEEP SLOPES OF 25% OR GREATER ARE PRESENT ON SITE.

SITE ZONING: R-1: RESIDENTIAL

ADJACENT ZONING: R-1, R-5, and R-8 - VARIOUS RESIDENTIAL

GROSS SITE AREA - 0.75 ACRES

WATERSHED: 02130905 - GWYNNS FALLS

NO SIGNIFICANT HISTORIC STRUCTURES OR RESOURCES ARE PRESENT ON SITE.

NO CRITICAL HABITATS OF RARE, THREATENED, OR ENDANGERED SPECIES ARE PRESENT ON SITE.

NO SIGNIFICANT ROCK OUTCROPPINGS ARE PRESENT ON SITE.

NO FORESTS ARE PRESENT ON SITE. TREES WERE SURVEYED NOVEMBER 2022.

TREE IDENTIFICATION AND ASSESSMENT CHART

SYMBOL/ NO.	*BOTANICAL NAME*	COMMON NAME	SIZE (DBH) (INCHES)	CRZ (FT. RADIUS)	CONDITION	COMMENTS
1	*Platanus occidentalis*	Sycamore	20	30	Fair	Struggling Roots, streetside damage, cankers
2	*Syringa vulgaris*	White Lilac	5	8	Good	Twin Trunk, some minor healed mower damage, uneven growth pattern
3	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
4	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
5	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
6	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
7	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
8	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
9	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.
10	*Crataegus marshallii*	Hawthorn	14	21	Fair	Multi-stem, ivy coverage, cicada damage
11	*Crataegus marshallii*	Hawthorn	15	22.5	Good	Minor healed damage
12	*Tsuga canadensis*	Eastern Hemlock	28	42	Fair - Poor	Broken branches, significant ivy coverage, poor quality
13	*Tilia americana*	American Basswood	25	37.5	Fair	Ivy coverage, trimmed, minor lawn mower damage

Notes:

1. Tree inventory and survey originally compiled from site observations at project kickoff November 2022 and original project draft forestry by MK Engineering provided to FTLA May of 2024, and field verified and updated by FTLA August 2025.

2. Trees are shown with a minimum CRZ of 8' if their DBH is below applicable levels.

SUMMARY TABLE (FOR PROJECT LIMITS)	
EXISTING FOREST	0 ACRES
WETLANDS	0 ACRES
FORESTED WETLAND	0 ACRES
STREAM BUFFER	0 ACRES
FORESTED STREAM BUFFER	0 ACRES
100 YEAR FLOODPLAIN	0 ACRES
FORESTED 100 YEAR FLOODPLAIN	0 ACRES
LINEAR EXTENTS OF STREAMS	0 L.F.
AVERAGE WIDTH OF STREAM BUFFER	0 FEET

PRIME AE
5521 Research Park Drive, Suite 300, Baltimore, MD 21228 | 410-654-3790

LANDSCAPE ARCHITECT
ANN ANDREA A. QUIST
1093
STATE OF MARYLAND

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 1093, EXPIRATION DATE: JULY 26, 2026.

ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
3023 Garrison Blvd.
Baltimore, MD 21216

AUGUST 29, 2025

BID SET

PSC #

Sheet Issue Date: 8/12/2025

Revisions:

No.	Date	Description

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SIMPLIFIED FOREST STAND DELINEATION PLAN

L0.01

SHEET 40 OF 179

19060

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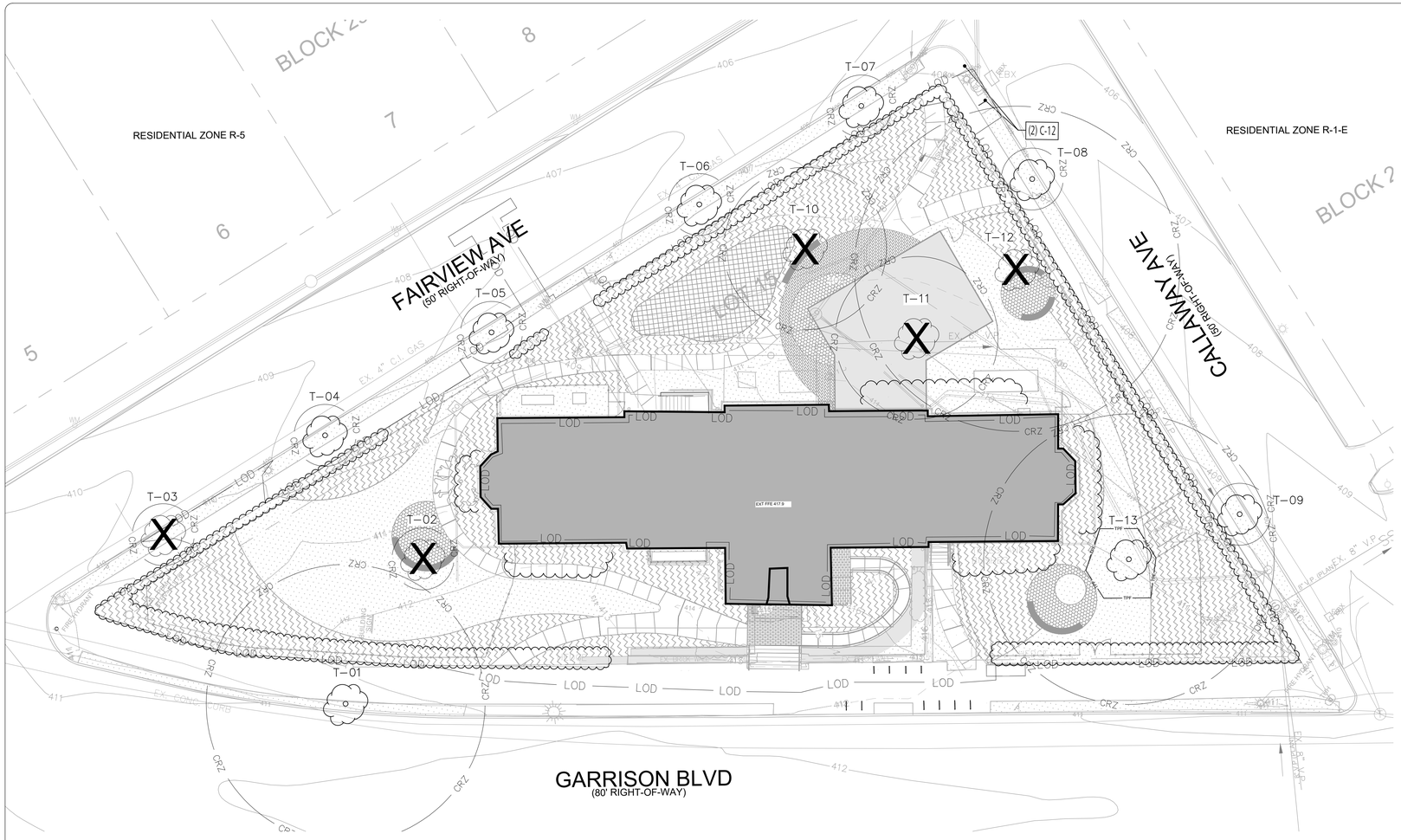

1 FOREST CONSERVATION PLAN

PLAN

SCALE: 1" = 16'-0"

0' 4' 8' 16' 32'

TREE IDENTIFICATION AND ASSESSMENT CHART

SYMBOL/ NO.	*BOTANICAL NAME*	COMMON NAME	SIZE (DBH) (INCHES)	CRZ (FT. RADIUS)	CONDITION	COMMENTS	PROPOSED ACTION
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2	*Syringa vulgaris*	White Lilac	5	8	Good	Twin Trunk, some minor healed mower damage, uneven growth pattern	Remove - Construction Impacts
3	*Quercus bicolor*	Swamp White Oak	1	8	Good	Newly planted sapling, stakes still installed.	Remove - Construction Impacts
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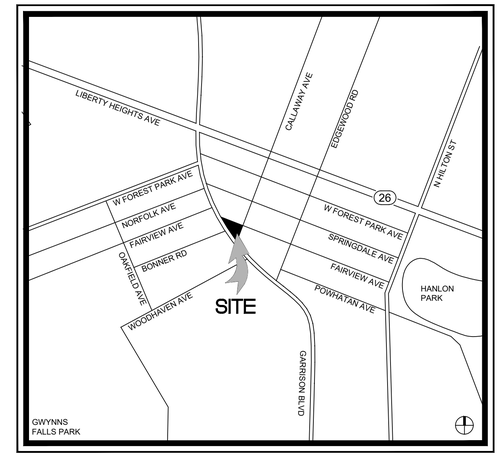
FOREST CONSERVATION WORKSHEET

Net Tract Area			**Acres**
	A. Total Tract Area		0.75
	B. Deductions		0.00
	C. Net Tract Area		0.75
Land Use Category			
	D. Afforestation Threshold	15%	0.11
	E. Conservation Threshold	20%	0.15
Existing Forest Cover			
	F. Existing Forest Cover w/in Net Tract Area		0.00
	G. Area of Forest Above Conservation Threshold		0.00
Breakeven Point			
	H. Breakeven Point		0.00
	I. Forest Clearing Permitted Without Mitigation		0.00
Proposed Forest Clearing			
	J. Total Area of Forest to be Cleared		0.00
	K. Total Area of Forest to be Retained		0.00
Planting Requirements			
	L. Reforestation for Clearing Above the Conservation Threshold		0.00
	M. Reforestation for Clearing Below the Conservation Threshold		0.00
	N. Credit for Retention Above the Conservation Threshold		0.00
	P. Total Reforestation Required		0.00
	Q. Total Afforestation Required		0.11
	Ignor, formulas--for M 0 --for P 0.00		
R. Total Planting Required			**0.11**

Baltimore City Tree Mitigation	
ROW Tree Caliper Inch Mitigation Required	**1**
Specimen Tree Caliper Inch Mitigation Required	**28**
Total Caliper Inch Mitigation Needed	**29 Inches**

Afforestation Requirement	
Afforestation Required	**0.11 Acres or 11 PU**

VICINITY MAP:



SCALE: 1"=1,000'

LEGEND:

T-1 — EXISTING TREE WITH CRITICAL ROOT ZONE

LOD — LIMIT OF DISTURBANCE

TPF — LIMIT OF WORK

TREE ROW BOUNDARY

NOTES:

NO SOILS LINES SHOWN, THE ENTIRE SITE AND SURROUNDING AREA CONTAINS SOIL TYPE: 26UB - MONTALTO-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES, NOT HYDRIC, DRAINAGE CLASS: C

NO STEEP SLOPES OF 25% OR GREATER ARE PRESENT ON SITE.

SITE ZONING: R-1: RESIDENTIAL

ADJACENT ZONING: R-1, R-5, and R-8 - VARIOUS RESIDENTIAL

GROSS SITE AREA - 0.75 ACRES

WATERSHED: 02130905 - GWYNNS FALLS

NO SIGNIFICANT HISTORIC STRUCTURES OR RESOURCES ARE PRESENT ON SITE.

NO CRITICAL HABITATS OF RARE, THREATENED, OR ENDANGERED SPECIES ARE PRESENT ON SITE.

NO SIGNIFICANT ROCK OUTCROPPINGS ARE PRESENT ON SITE.

NO FORESTS ARE PRESENT ON SITE. TREES WERE SURVEYED NOVEMBER 2022.

SUMMARY TABLE (FOR PROJECT LIMITS)	
EXISTING FOREST	0 ACRES
WETLANDS	0 ACRES
FORESTED WETLAND	0 ACRES
STREAM BUFFER	0 ACRES
FORESTED STREAM BUFFER	0 ACRES
100 YEAR FLOODPLAIN	0 ACRES
FORESTED 100 YEAR FLOODPLAIN	0 ACRES
LINEAR EXTENTS OF STREAMS	0 L.F.
AVERAGE WIDTH OF STREAM BUFFER	0 FEET

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LANDSCAPE ARCHITECT ANN ANDREA A. QUIST 1093 STATE OF MARYLAND

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FOREST CONSERVATION PLAN

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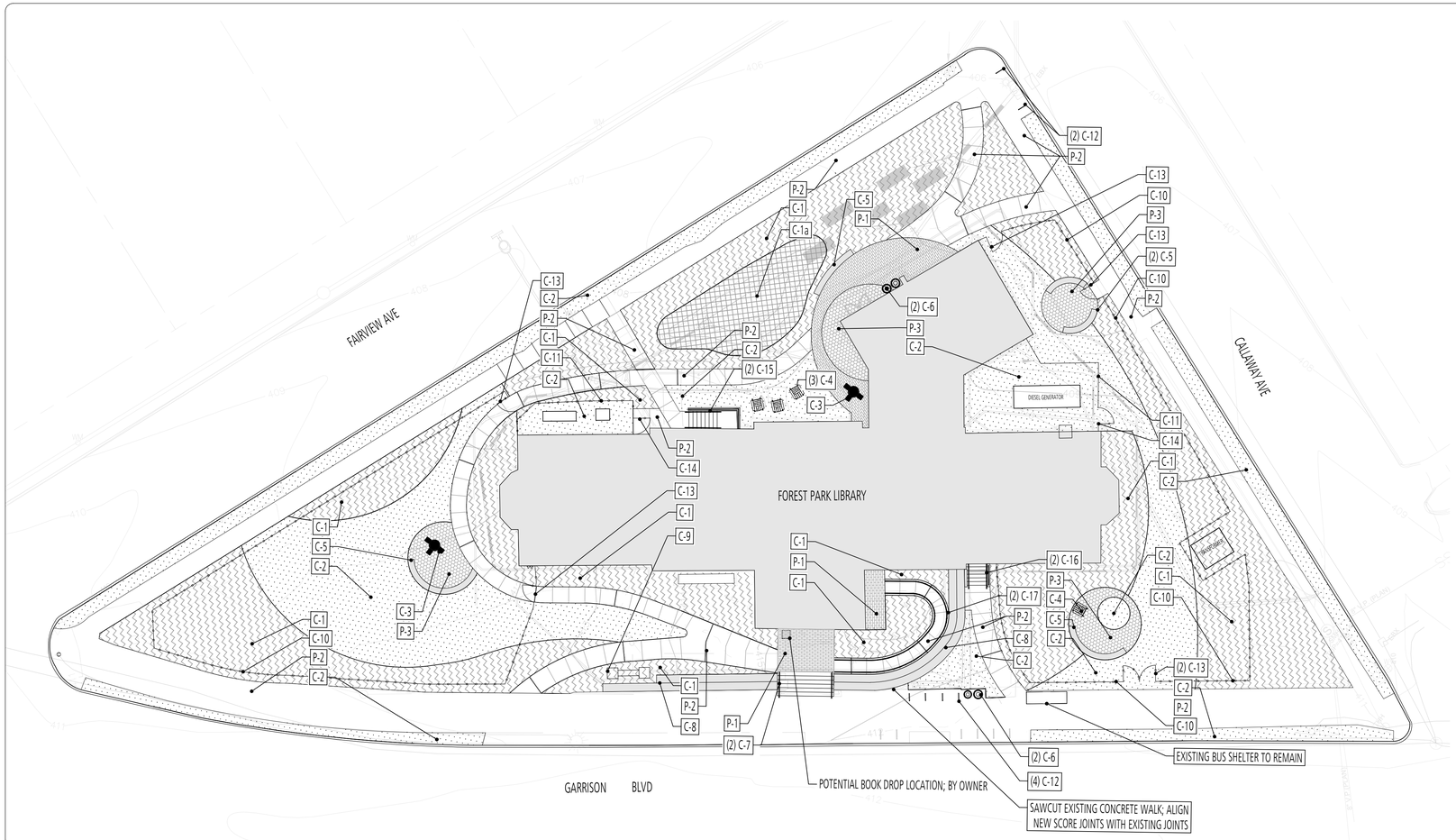

1 HARDSCAPE PLAN

PLAN

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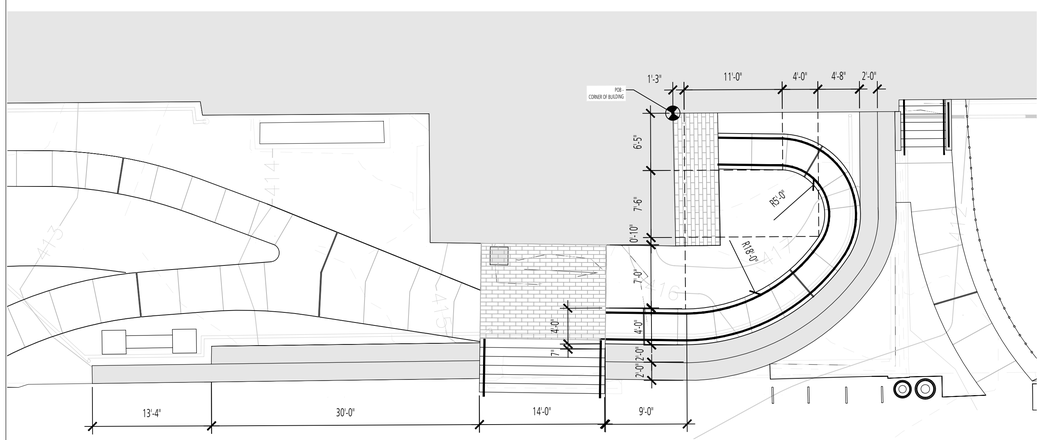
SCALE: 1" = 16'-0"

0' 4' 8' 16' 32'



2 ENTRY STAIR AND RAMP ENLARGEMENT

PLAN, SECTION, ELEVATION

SCALE: 1" = 8'-0"

0' 2' 4' 8' 16'

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KEYNOTES:

CONSTRUCTION NOTES			
SYMBOL	**ITEM TYPE**	**NOTES**	**REFERENCE**
C-1	PLANTING BED		2/L4.00
C-1a	STORMWATER PLANTING BED	SEE CIVIL DRAWINGS FOR PROFILE	
C-2	SODDED LAWN		1/L4.00
C-3	UMBRELLA TABLE	SEE SPECIFICATION	
C-4	CHAIR	SEE SPECIFICATION	
C-5	CONCRETE SEATWALL		3/L3.01
C-6	LITTER/RECYCLING RECEPTACLE	SEE SPECIFICATION	
C-7	HANDRAIL AND STAIR - MAIN ENTRANCE		7/L3.00
C-8	PRECAST CONCRETE SEAT STEP		6/L3.00
C-9	MONUMENT SIGN		4+5+6/L3.01
C-10	PERIMETER FENCE		1/L3.01
C-11	METAL SCREEN	SEE SPECIFICATION	
C-12	BIKE RACK	SEE SPECIFICATION	
C-13	PERIMETER FENCE GATE		2/L3.01
C-14	METAL SCREEN GATE	SEE SPECIFICATION	
C-15	HANDRAIL & GUARDRAIL - REAR ENTRANCE		1/L3.02
C-16	HANDRAIL & GUARDRAIL - EAST ENTRANCE		2/L3.02
C-17	RAMP HANDRAIL		3/L3.02
PAVEMENT NOTES			
SYMBOL	**PAVER TYPE**	**NOTES**	**REFERENCE**
P-1	CONCRETE PAVER		2+3+5/L3.00
P-2	SAWCUT CONCRETE WALK	REFER TO CIVIL	1+4/L3.00
P-3	HEXAGONAL CONCRETE PAVER		2+3+5/L3.00

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY SITE CONDITIONS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCY FOUND SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.

2. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY UPON FINDING ANY UNFORESEEN CONDITIONS.

3. MAINTAIN POSITIVE DRAINAGE FROM BUILDINGS THROUGHOUT CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR PROPOSED GRADING AND SPOT ELEVATIONS.

4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ANY WASTE FROM THE SITE.

5. PROVIDE MOCK UPS OF CONCRETE FINISHES AND PAVING ASSEMBLIES PRIOR TO COMPLETE INSTALLATION. APPROVED MOCK UPS MAY BE USED IN COMPLETED PROJECT IF UNDAMAGED THROUGHOUT CONSTRUCTION.

PAVER LAYOUT AND INSTALLATION:

1. JOINT LINES SHALL NOT DEVIATE MORE THAN ±1/2 IN. OVER 50 FT. FROM STRING LINES.

2. FILL GAPS AT THE EDGES OF THE PAVED AREA WITH CUT PAVERS OR EDGE UNITS. NO UNIT SHALL BE SMALLER THAN ONE-THIRD OF A WHOLE PAVER.

3. ADJUST BOND PATTERN AT PAVEMENT EDGES SUCH THAT CUTTING OF EDGE PAVERS IS MINIMIZED. ALL CUT PAVERS SHALL BE NO SMALLER THAN ONE-THIRD OF A WHOLE PAVER. CUT PAVERS AT EDGES AS INDICATED ON THE DRAWINGS. WHEN POSSIBLE LOCATE FULL PAVERS AT ALL EDGES AND FIELD TRANSITION POINTS; LOCATE CUT PAVERS STRATEGICALLY WITHIN PAVER FIELD. DO NOT PLACE MORE THAN 2 CUT PAVERS ADJACENT.

4. KEEP SKID STEER AND FORKLIFT EQUIPMENT OFF NEWLY LAID PAVERS THAT HAVE NOT RECEIVED JOINT SAND.

5. SURFACE SHALL BE BROOM CLEAN AFTER REMOVAL OF EXCESS JOINT SAND.

6. THE FINAL SURFACE TOLERANCE FROM GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN ± 3/8 IN. UNDER A 10 FT STRAIGHTEDGE. ALL WALKING SURFACES TO COMPLY WITH ADA REQUIREMENTS.

7. CHECK FINAL SURFACE ELEVATIONS FOR CONFORMANCE TO DRAWINGS.

8. MOCK-UPS FOR EACH PAVER TYPE AND FIELD ARE REQUIRED; SEE SPECIFICATIONS.

9. SELECT PAVERS FROM MULTIPLE PALLETS TO PREVENT COLOR DIFFERENTIATION BETWEEN PAVER BATCHES.

LAYOUT NOTES

1. LAYOUT AND DIMENSIONS SHOWN ON THIS DRAWING ARE FOR THE PURPOSE OF ILLUSTRATING DESIGN INTENT. WRITTEN DIMENSIONS WILL PREVAIL ON THESE LAYOUT PLANS. DO NOT SCALE FROM THE DRAWINGS. REFER TO CIVIL DRAWINGS TO COORDINATE LAYOUT.

2. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. IMMEDIATELY REPORT DISCREPANCIES FOUND BETWEEN PLAN DIMENSIONS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT.

3. PLANTING BEDS ARE DIMENSIONED TO THE OUTSIDE OF WALLS OR CURBS.

4. CONCRETE AND PAVER FIELDS ARE DIMENSIONED FROM THE CENTERLINE OF JOINTS.

5. ANGLES ARE 90 OR 45 DEGREES UNLESS OTHERWISE NOTED.

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LANDSCAPE ARCHITECT ANN ANDREA PROJECT 1093 STATE OF MARYLAND

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OVERALL HARDSCAPE PLAN

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LEGEND:

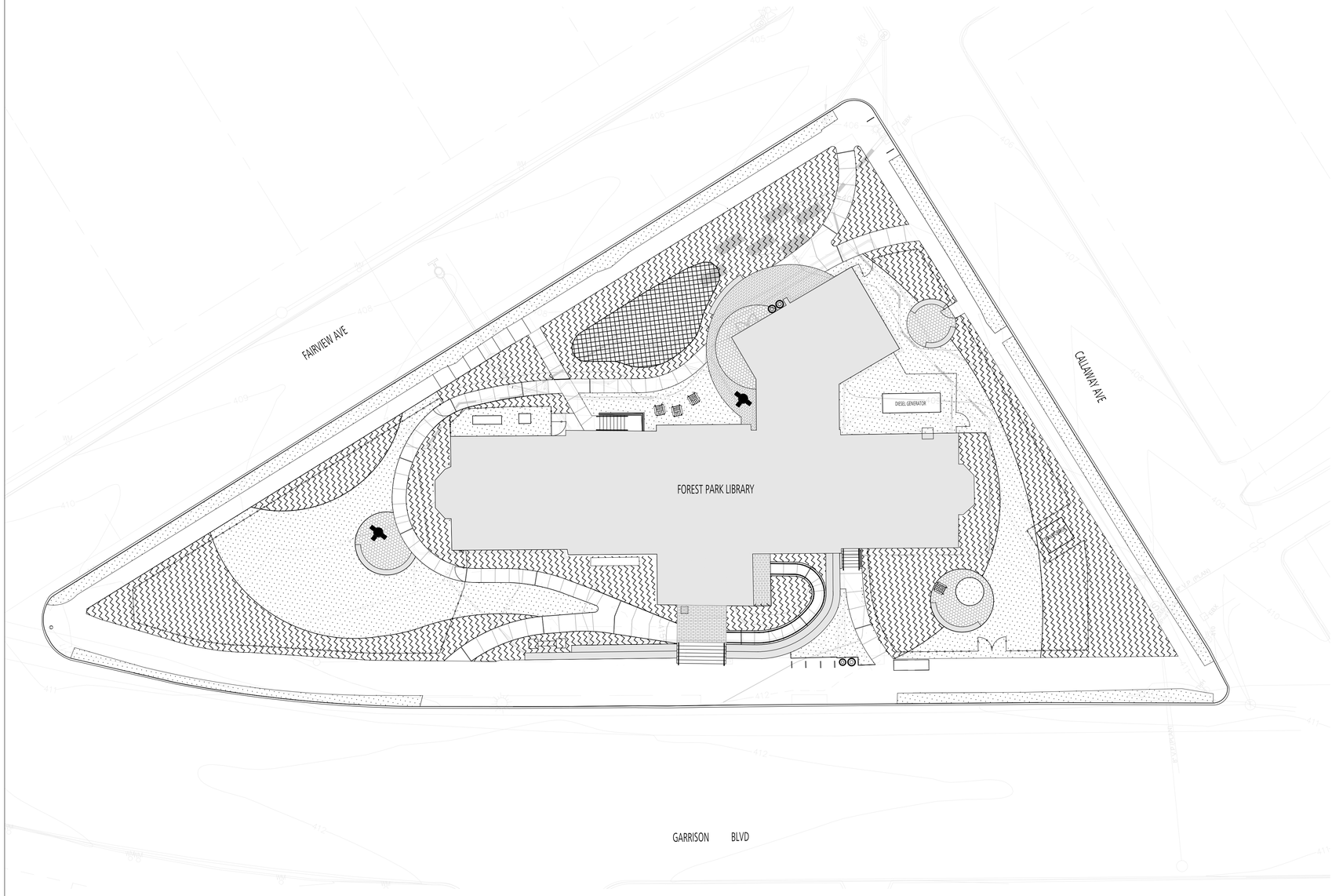
PLANTING BED - 18" DEPTH

TURF AND SOD - 6" DEPTH

SWM FACILITY - REFER TO CIVIL FOR PROFILE

NOTES:

1. HAND DIG AROUND EXISTING TREES TO REMAIN. DO NOT DISTURB CRITICAL ROOT ZONES.



1 SOIL PLACEMENT PLAN
PLAN

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SCALE: 1" = 16'-0"

0' 4' 8' 16' 32'

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LANDSCAPE ARCHITECT
ANN ANDREA ADLER
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SOIL PLACEMENT PLAN

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MASTER PLANT SCHEDULE:

MAJOR TREES						
Symbol	Quantity	Botanical Name	Common Name	Size	Notes	Mitigation Provided
GB	2	*Ginkgo biloba*	Ginkgo	3" Cal.	B&B	2 PU Afforestation
NS	2	*Nyssa sylvatica*	Black Gum	3" Cal.	B&B	2 PU Afforestation
QB	3	*Quercus bicolor*	Swamp White Oak	3" Cal.	B&B	3 PU Afforestation
TD	2	*Taxodium distichum*	Bald Cypress	6' Ht.	B&B	2 PU Afforestation
MINOR TREES						
Symbol	Quantity	Botanical Name	Common Name	Size	Notes	Mitigation Provided
AC	4	*Amelanchier candensis*	Serviceberry	6-7' Ht. Multistem	B&B	6" Specimen Tree
CE	3	*Cercis canadensis*	Eastern Redbud	2" Cal.	B&B/ #15 CG	6" Specimen Tree
CF	2	*Cornus florida*	Flowering Dogwood	2.5" Cal.	B&B	5" Specimen Tree
HV	2	*Hamamelis virginiana*	Common Witchhazel	6' Ht.	B&B/CG Multi- Stem: Min. 3	3" Specimen Tree
PS	3	*Prunus subhirtella* 'Autumnalis'	Autumnalis Higan Cherry	2" Cal.	B&B	6" Specimen Tree
SHRUBS						
Symbol	Quantity	Botanical Name	Common Name	Size	Notes/Spacing	Mitigation Provided
Ca	10	*Callicarpa americana*	American Beautyberry	36" Ht.	#5 CG; 5' O.C.	1 PU Afforestation
Cl	9	*Clethra alnifolia* 'Ruby Spice'	Summersweet Clethra	30" Ht.	#3 CG; 5' O.C.	0.9 PU Afforestation
Cs	5	*Cornus sericea*	Red Osier Dogwood	36" Ht.	#5 CG; 5' O.C.	
Hq	14	*Hydrangea quercifolia*	Oak-leaf Hydrangea	36" Ht.	#5 CG; 5' O.C.	
Ig	16	*Ilex glabra* 'Shamrock'	Inkberry	36" Ht.	#5 CG; 3' O.C.	
Ivsg	1	*Ilex verticillata* 'Southern Gentleman'	Winterberry	24" Ht.	#3 CG; 5' O.C.	0.1 PU Afforestation
Iv	2	*Ilex verticillata*	Winterberry	24" Ht.	#3 CG; 5' O.C.	0.2 PU Afforestation
Ra	27	*Rhus aromatica* 'Gro-Low'	Fragrant Sumac	24" Sp.	#2 CG; 5' O.C.	
Rt	2	*Rhus typhina* 'Dissecta'	Staghorn Sumac	36" Ht.	#5 CG; AS SHOWN	
Vd	3	*Viburnum dentatum*	Arrowwood Viburnum	36" Ht.	#5 CG; 10' O.C.	
PERENNIALS, GRASSES & GROUNDCOVERS						
Symbol	Quantity	Botanical Name	Common Name	Size	Notes	Mitigation Provided
at	226	*Asclepias tuberosa*	Butterfly Weed	1 Qt.	18" OC	
an	76	*Aster novae-angliae* 'Purple Dome'	New England Aster	1 Gal.	24" OC	
bg	135	*Bouteloua gracilis* 'Blonde Ambition'	Blue Grama Grass	1 Gal.	24" OC	
cp	1008	*Carex pennsylvanica*	Pennsylvania Sedge	1 Gal.	18" OC	
co	164	*Coreopsis verticillata* 'Sienna Sunset'	Tickseed	1 Gal.	12" OC	
ep	133	*Echinacea purpurea*	Purple Coneflower	1 Gal.	18" OC	
ed	51	*Eupatorium dubium*	Joe-Pye Weed	1 Gal.	24" OC	
gs	303	*Geranium sanguineum* 'Max Frei'	Geranium	1 Gal.	18" OC	
he	857	*Heuchera villosa* 'Autumn Bride'	Coral Bells (Bluemount)	1 Gal.	15" OC	
mc	447	*Muhlenbergia capillaris*	Mulhy Grass	1 Gal.	18" OC	
ni	994	*Narcissus* 'Ice Follies'	Ice Follies Daffodil	Top Size	Bulb	
nm	194	*Narcissus* 'Mercato'	Mercato Daffodil	Top Size	Bulb	
nf	71	*Nepeta* 'Walker's Low'	Catmint	1 Gal.	15" OC	
pm	159	*Pycnanthemum muticum*	White Mountain Mint	1 Qt.	15" OC	
ss	368	*Schizachyrium scoparium* 'Standing Ovation'	Little Bluestem	1 Gal.	18" OC	
sr	226	*Solidago rugosa* 'Fireworks'	Goldenrod	1 Gal.	18" OC.	

PLANTING NOTES:

1. ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT SCHEDULE AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK, ANSI260.1-2004" LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 230 SOUTHERN BUILDING, WASHINGTON, D.C. 20005.

2. CONTRACTOR MUST VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION. THE CONTRACTOR SHALL CALL MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND REQUIREMENTS FOR CONSTRUCTION.

3. ALL PLANT BEDS SHALL BE MULCHED WITH 2" OF MULCH WITHIN TWO DAYS AFTER PLANTING. THIS SHALL BE SHREDDED HARDWOOD BARK, AND SHALL COVER ENTIRELY THE PLANTING BED. REFER TO SPECIFICATIONS.

4. ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWO FULL YEARS AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN, WITHIN THE SPECIFICATIONS, AND ON THE DRAWINGS.

5. PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.

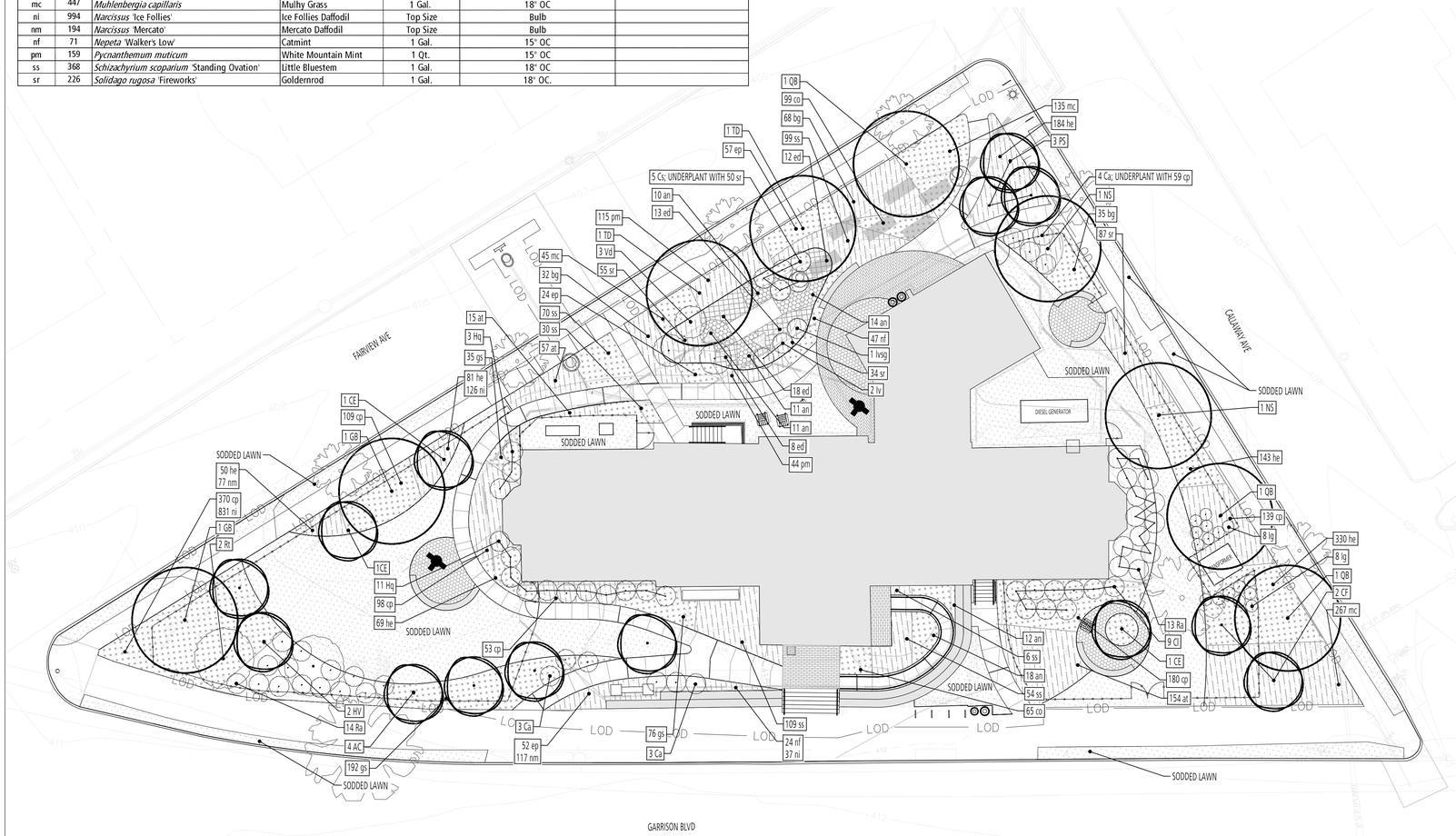
6. WHERE THE CONDITION EXISTS THAT THE BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, THE WIRE BASKETS SHALL BE REMOVED ENTIRELY. NO PORTION OF THE WIRE BASKET SHALL REMAIN.

7. ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURBS, WALLS, VEGETATION AND ANY OTHER EXISTING FEATURES NOT DESIGNATED FOR REMOVAL ON THESE PLANS, SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT THE HIS OR HER EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SEEDED PER THE PLANS AND SPECIFICATION UNLESS OTHERWISE NOTED.

8. FOR PLANTS DENOTED TO "NATURALIZE", PLANT IN CLUSTERS OF 2-3 PLANTS, RANDOMLY SPACED THROUGHOUT AREA SHOWN ON PLAN.

9. DO NOT PRUNE PLANT MATERIAL TO CONFORM TO SPECIFIED SIZES. HEIGHT AND/OR SPREAD INDICATED IN THE PLANT SCHEDULE SHALL BE THE MINIMUM ACCEPTABLE SIZE.

10. HAND DIG AROUND EXISTING TREES TO REMAIN. DO NOT DISTURB CRITICAL ROOT ZONES.



CITY FOREST CONSERVATION MAINTENANCE NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND TREE CARE FOR A PERIOD OF TWO (2) YEARS. SERVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: WEEDING, MULCHING, MOWING, TRIMMING, PRUNING, EDGING, CULTIVATION, SEEDING, FERTILIZATION, WATERING, PEST CONTROL, AND ANY OTHER MAINTENANCE NECESSARY TO ENSURE HEALTHY, VIGOROUS PLANT GROWTH AND WELL-KEPT PROPERTY CONDITION.

2. WATERING SHALL BE PROVIDED DURING THE GROWING SEASON AS REQUIRED A. FIRST GROWING SEASON: ONCE PER WEEK. B. SECOND GROWING SEASON: AS NEEDED, BUT NOT LESS THAN ONCE PER MONTH DURING JULY AND AUGUST.

3. REINFORCEMENT PLANTING PROVISIONS A. 100% OF THE TOTAL NUMBER OF TREES PLANTED PER ACRE ARE REQUIRED TO SURVIVE AT THE END OF THE TWO-YEAR MAINTENANCE PERIOD.

4. THERE SHALL BE AN INITIAL PLANTING APPROVAL INSPECTION AND AN INSPECTION AT THE END OF THE TWO-YEAR WARRANTY PERIOD FOR CONFIRMATION OF PLANT SURVIVAL.

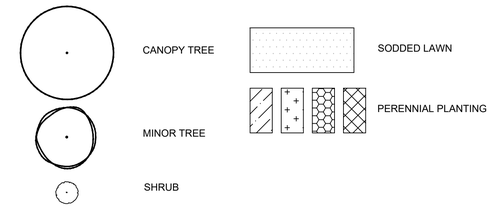
5. SEASONAL INSPECTIONS SHALL BE MADE FOR ANY EVIDENCE OF DISEASE OR DAMAGE. ANY DEAD PLANTS OR PLANTS WHICH FAIL TO SHOW HEALTHY GROWTH MUST BE REMOVED AND REPLACED WITHIN 60 DAYS OF IDENTIFICATION OF DETERIORATED HEALTH OR NOTIFICATION BY THE CITY. REPLACEMENT MAY BE DELAYED UNTIL THE NEXT GROWING SEASON ONLY IF THE 60 DAY PERIOD OCCURS DURING A TIME OF YEAR NOT SUITABLE FOR PLANTING.

6. ALL REPLACEMENT PLANTS MUST MEET THE SIZE CRITERIA AND OTHER CHARACTERISTICS OF NEWLY PLANTED MATERIAL AS REQUIRED IN THE FOREST CONSERVATION MANUAL.

7. TREES AND LARGE SHRUBS MUST BE ADEQUATELY SUPPORTED, WHEN NECESSARY TO INSURE PROPER GROWTH. TREE STAKING MUST BE REMOVED PRIOR TO FINAL INSPECTION, WITH THE EXCEPTION OF PLANTS REPLACED DURING THE WARRANTY PERIOD AND NOT YET ESTABLISHED.

8. INVASIVE MANAGEMENT AND GENERAL MAINTENANCE OF THE PERIMETER VEGETATION IS REQUIRED AS PART OF THE PLANTING ESTABLISHMENT PERIOD.

LEGEND:



Baltimore Landscape Manual Planting Units Requirement			
Condition	**Areas on site**	**PU REQ**	**Rate**
F (Street Frontage)	770 L.F.	26	1 PU per 30 LF
Overall Total PU requirements		**26 PU**	
Total PU Major Trees Provided		**9**	**1 PU per 1 Plant**
Total PU Minor Trees Provided		**7**	**1 PU per 2 Plants**
Total PU Shrubs Provided		**14**	**1 PU per 6 Plants**
Total PU Perennials Provided		**211**	**1 PU per 20 Plants**
Total PU Provided		**241 (30 PU Trees and Shrubs Only)**	

*Exluding Driveway

Afforestation Requirement	
Afforestation Required	**0.11 Acres or 11 PU**

Total PU Major Trees Provided at 2.5" Cal.	**9**
Total PU Shrubs Provided	**2.2**
Total PU Provided	**11.2**

Baltimore City Tree Mitigation		
ROW Tree Caliper Inch Mitigation Required	**1**	
Specimen Tree Caliper Inch Mitigation Required	**28**	
Total Caliper Inch Mitigation Needed	**29 Inches**	
Mitigation Provided		
Total Caliper Inches Removed From Site (Trees Over 20 Inches)	**29**	
1:1 Mitigation for first 60"	**29**	
1:2 Mitigation for next 40"	**0**	
1:4 Mitigation for remaining 2"	**0**	
Total Caliper Inches to be Mitigated	**29"**	
Minor Tree 1.5"	**6**	**9"**
Minor Tree 2"	**6**	**12"**
Minor Tree 2.5"	**2**	**5"**
Total Onsite Trees Inches Mitigation Provided	**26"**	

Fee In Leiu	# of Inches / Trees Required	Rate	**Total Fee**
Afforestation	0 Trees	$600 / Tree	**$0**
Specimen Tree Mitigation	3 Inches	$300 / Inch	**$900**
		TOTAL FEE IN LEIU	**$900**

1 PLANTING PLAN
PLAN

X-FTLA-landscape.dwg
SCALE: 1" = 16'-0"

0' 4' 8' 16' 32'

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OVERALL PLANTING PLAN

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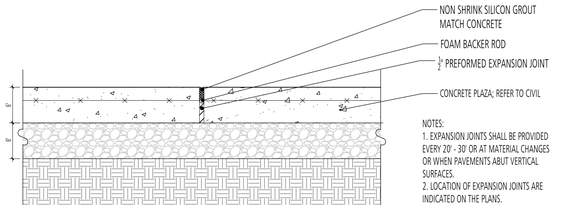
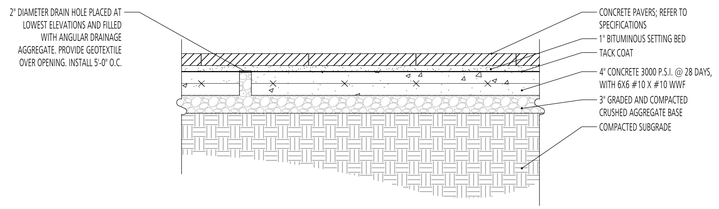
SHEET 44 OF 179

19060

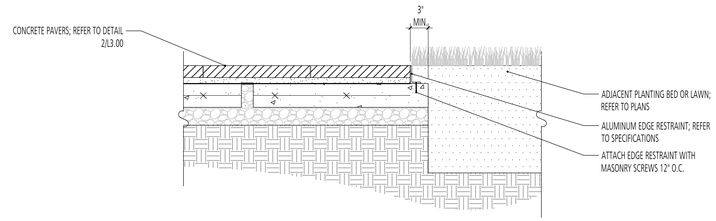


NOTES:
1. EXPANSION JOINTS SHALL BE PROVIDED EVERY 20' - 30' OR AT MATERIAL CHANGES OR WHEN PAVEMENTS ABUT VERTICAL SURFACES.
2. LOCATION OF EXPANSION JOINTS ARE INDICATED ON THE PLANS.

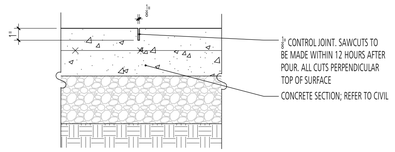
1 EXPANSION JOINT
SECTION — d-concrete expansion joint and control joint.dwg
SCALE: 1 1/2"=1'-0"



2 CONCRETE PAVERS
SECTION — d-concrete pavers.dwg
SCALE: 1"=1'-0"

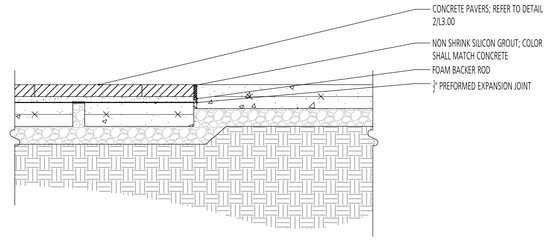


3 CONCRETE PAVERS EDGE RESTRAINT
SECTION — d-concrete pavers at concrete walk.dwg
SCALE: 1"=1'-0"

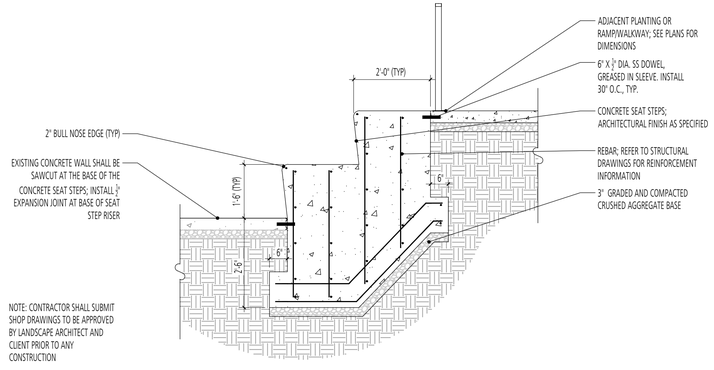


NOTES:
1. CONTROL JOINTS SHALL BE PLACED AS INDICATED ON THE PLANS. MINIMUM 6' APART.

4 CONCRETE AND CONTROL JOINT DETAIL
SECTION — d-concrete expansion joint and control joint.dwg
SCALE: 1"=1'-0"

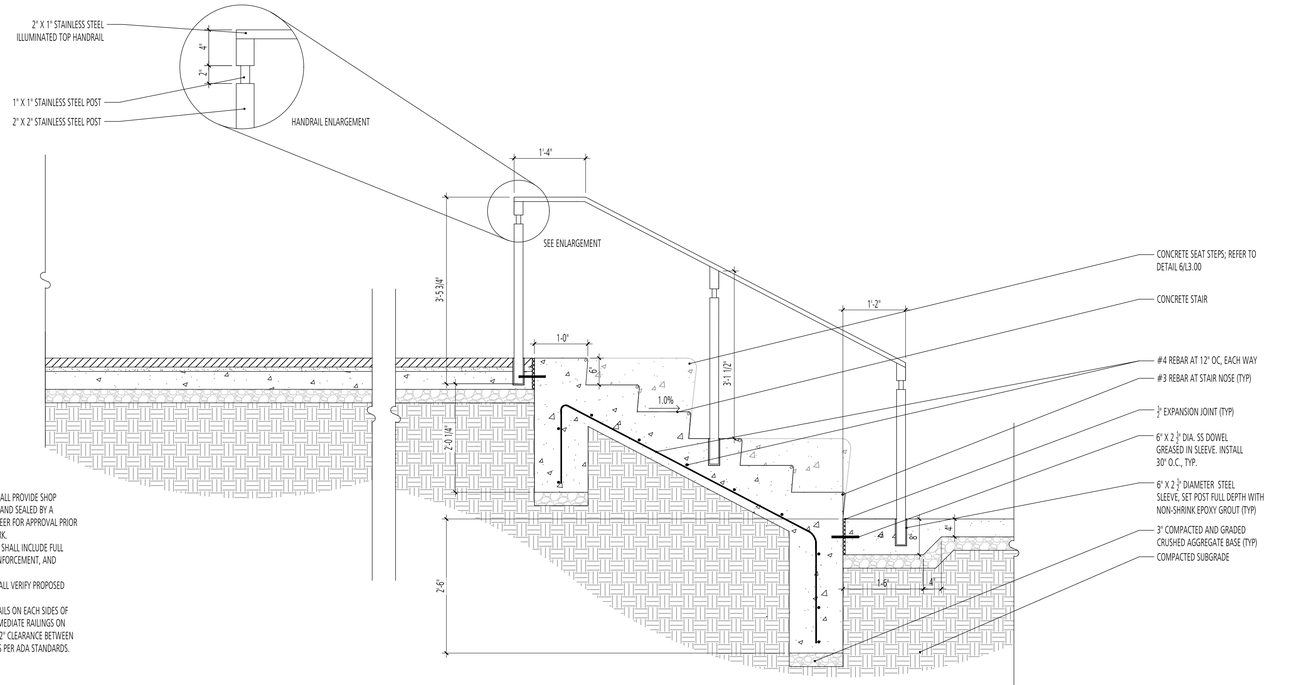


5 CONCRETE PAVERS AT CONCRETE WALK
SECTION — d-concrete pavers at concrete walk.dwg
SCALE: 1"=1'-0"



NOTE: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED BY LANDSCAPE ARCHITECT AND CLIENT PRIOR TO ANY CONSTRUCTION

6 CAST IN PLACE CONRETE SEAT STEPS
SECTION — d-seat step section.dwg
SCALE: 1/2" = 1'-0"



NOTES:
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
2. SHOP DRAWINGS SHALL INCLUDE FULL STAIR SECTION, REINFORCEMENT, AND HANDRAILS.
3. CONTRACTOR SHALL VERIFY PROPOSED GRADES.
4. PROVIDE HANDRAILS ON EACH SIDES OF STAIRS WITH INTERMEDIATE RAILINGS ON INTERIOR. PROVIDE 2" CLEARANCE BETWEEN RAILING AND WALLS PER ADA STANDARDS.

7 STAIR AND HANDRAIL - MAIN ENTRANCE
SECTION — d-stairs.dwg
SCALE: 3/4" = 1'-0"

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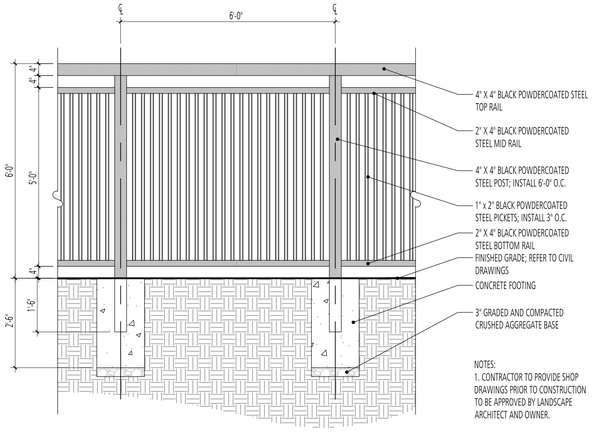
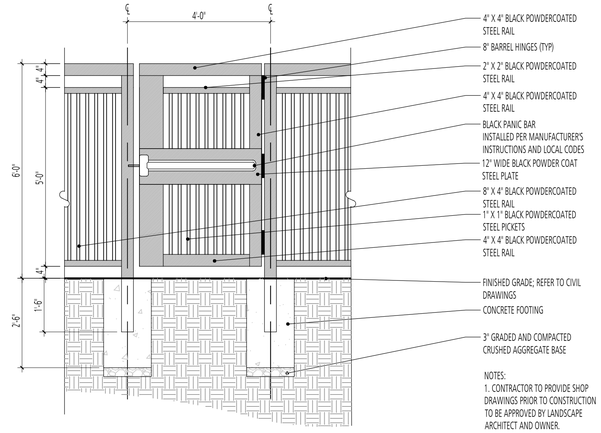
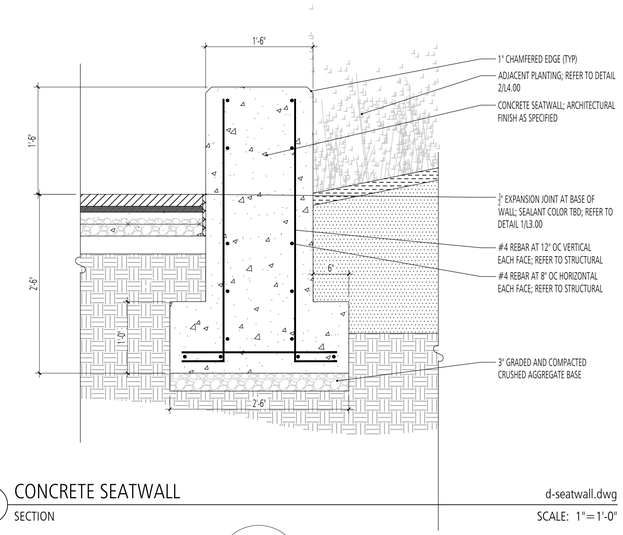


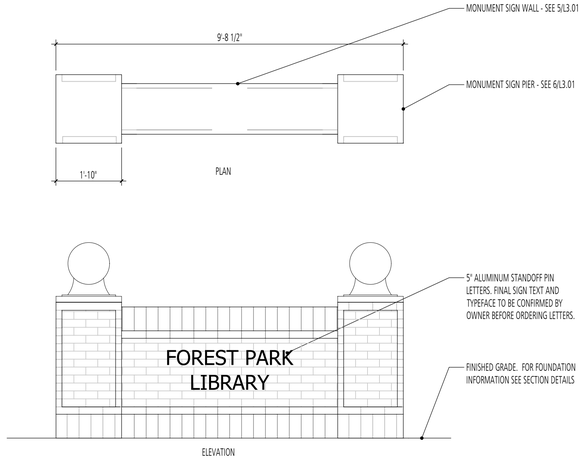
1 PERIMETER FENCE
SECTION
d-perimeter fence.dwg
SCALE: 1/2" = 1'-0"



2 GATE IN PERIMETER FENCE
SECTION
d-gate.dwg
SCALE: 1/2" = 1'-0"

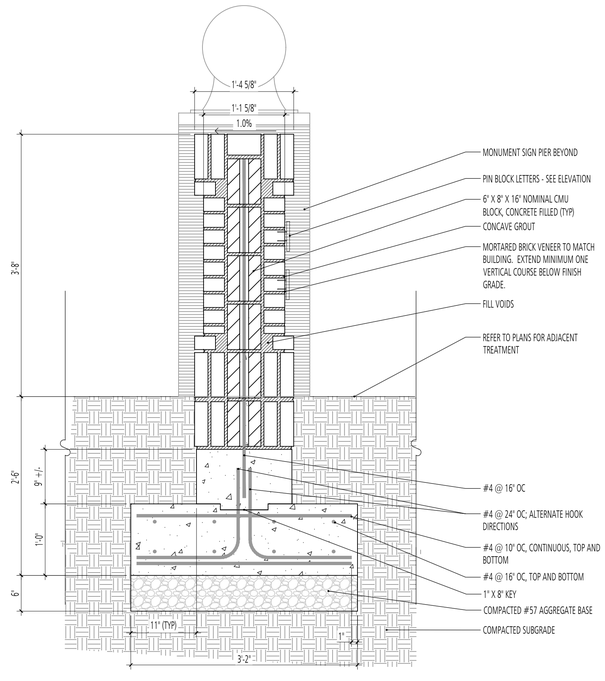


3 CONCRETE SEATWALL
SECTION
d-seatwall.dwg
SCALE: 1"=1'-0"

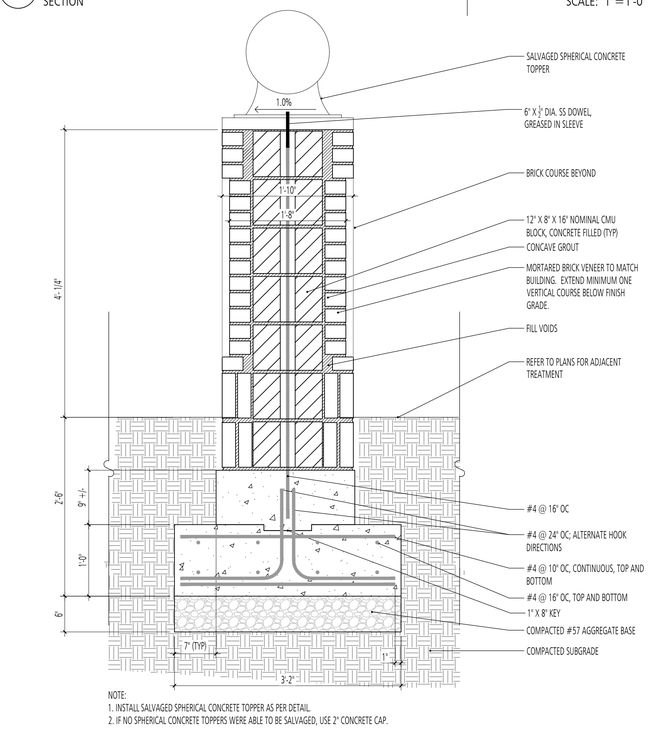


NOTE:
INFORMATION SHOWN AS MINIMUM FOR BASIC COORDINATION PURPOSES ONLY.
PRIOR TO BEGINNING WORK OR ORDERING SUPPLIES, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN MARYLAND FOR APPROVAL BY ARCHITECT. SHOP DRAWINGS SHALL INCLUDE DETAILED INFORMATION FOR ALL COMPONENTS, INCLUDING BUT NOT LIMITED TO, FOUNDATIONS, REINFORCING, FASTENERS, AND SEALANTS.

4 ENTRANCE SIGN
PLAN, AND ELEVATION
SCALE: 1/2" = 1'-0"



5 MONUMENT SIGN - WALL
SECTION
SCALE: 1"=1'-0"



NOTE:
1. INSTALL SALVAGED SPHERICAL CONCRETE TOPPER AS PER DETAIL.
2. IF NO SPHERICAL CONCRETE TOPPERS WERE ABLE TO BE SALVAGED, USE 2" CONCRETE CAP.

6 MONUMENT SIGN - PIER
SECTION
SCALE: 1"=1'-0"

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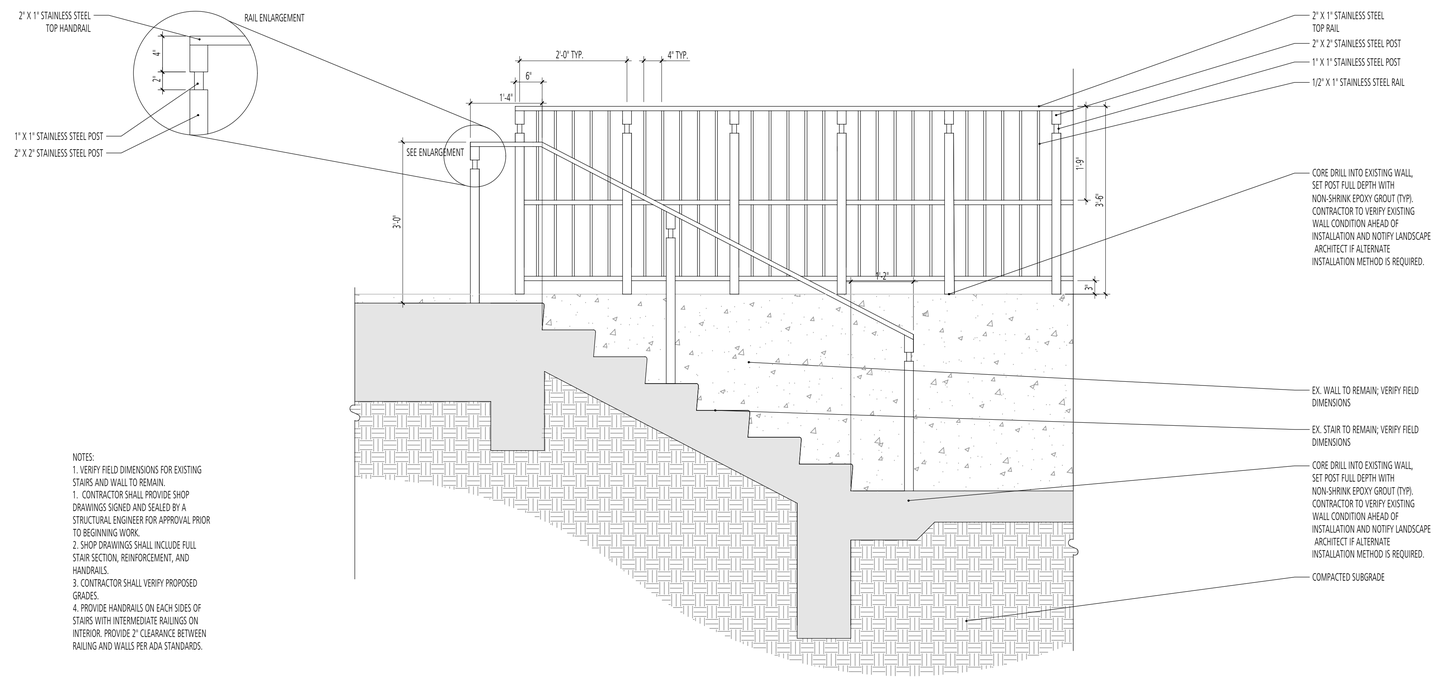
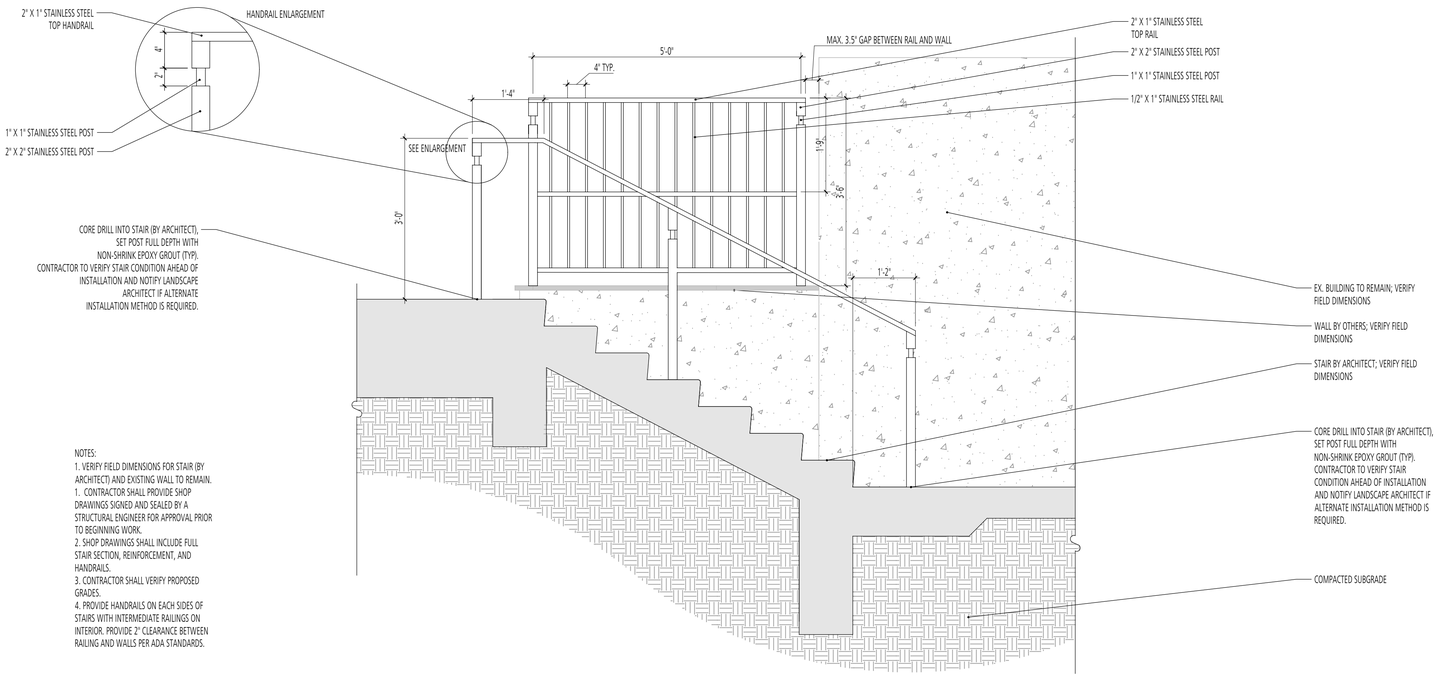


NOTES:
1. VERIFY FIELD DIMENSIONS FOR EXISTING STAIRS AND WALL TO REMAIN.
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
2. SHOP DRAWINGS SHALL INCLUDE FULL STAIR SECTION, REINFORCEMENT, AND HANDRAILS.
3. CONTRACTOR SHALL VERIFY PROPOSED GRADES.
4. PROVIDE HANDRAILS ON EACH SIDES OF STAIRS WITH INTERMEDIATE RAILINGS ON INTERIOR. PROVIDE 2" CLEARANCE BETWEEN RAILING AND WALLS PER ADA STANDARDS.

1 HANDRAIL & GUARDRAIL - REAR ENTRANCE
SECTION

d-rear steps handrail.dwg
SCALE: 3/4" = 1'-0"

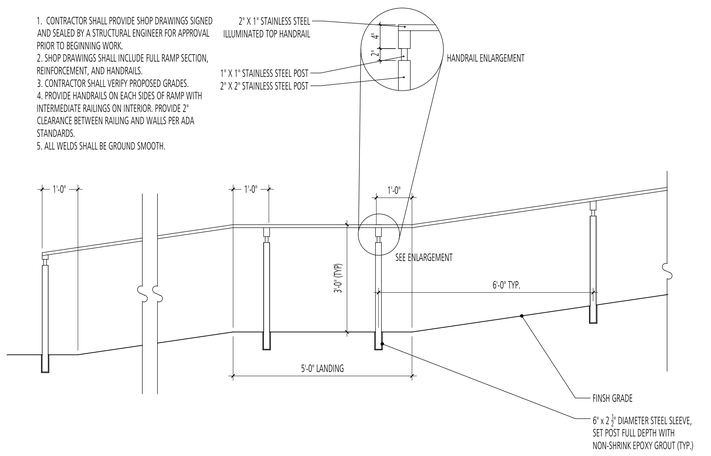


NOTES:
1. VERIFY FIELD DIMENSIONS FOR STAIR (BY ARCHITECT) AND EXISTING WALL TO REMAIN.
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
2. SHOP DRAWINGS SHALL INCLUDE FULL STAIR SECTION, REINFORCEMENT, AND HANDRAILS.
3. CONTRACTOR SHALL VERIFY PROPOSED GRADES.
4. PROVIDE HANDRAILS ON EACH SIDES OF STAIRS WITH INTERMEDIATE RAILINGS ON INTERIOR. PROVIDE 2" CLEARANCE BETWEEN RAILING AND WALLS PER ADA STANDARDS.

2 HANDRAIL & GUARDRAIL - EAST ENTRANCE
SECTION

d-rear steps handrail.dwg
SCALE: 3/4" = 1'-0"

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
2. SHOP DRAWINGS SHALL INCLUDE FULL RAMP SECTION, REINFORCEMENT, AND HANDRAILS.
3. CONTRACTOR SHALL VERIFY PROPOSED GRADES.
4. PROVIDE HANDRAILS ON EACH SIDES OF RAMP WITH INTERMEDIATE RAILINGS ON INTERIOR. PROVIDE 2" CLEARANCE BETWEEN RAILING AND WALLS PER ADA STANDARDS.
5. ALL WELDS SHALL BE GROUND SMOOTH.



3 TYPICAL HANDRAIL AT RAMP
SECTION

d-railing-ramp.dwg
SCALE: 1/2" = 1'-0"

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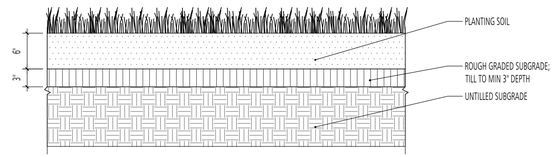


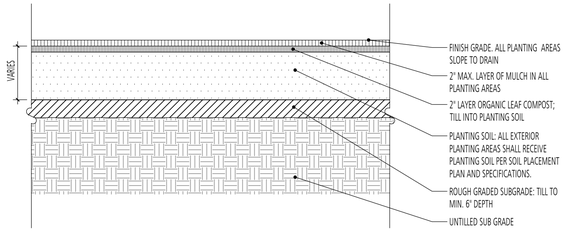
LAWN SEEDING PREPARATION NOTES:
1. ROTOTILL SUBGRADE TO A DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
2. FINE GRADE PRIOR TO PLACING SOD.
3. FERTILIZE AS REQUIRED BY SOIL TESTING.
4. PROTECT SODDED AREAS FROM SUBSEQUENT CONSTRUCTION ACTIVITY.
5. ALL DISTURBED AREAS THAT ARE NOT PLANT BEDS SHALL BE SODDED UNLESS OTHERWISE NOTED.

1 LAWN DETAIL - SOD (TYP.)

d-lawn detail sod.dwg

SECTION — SCALE: 1"=1'-0"

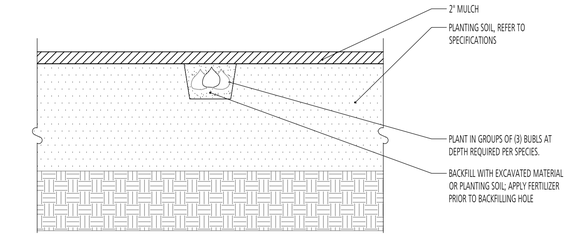
NOTES:
1. PROVIDE A DEPTH OF PLANTING SOIL AS INDICATED ON THE SOIL PLACEMENT PLAN.
2. TILL SUBGRADE TO A DEPTH OF 6" PRIOR TO PLACEMENT OF TOPSOIL AND ORGANIC MATERIALS.
3. PLACE PLANTING SOIL ON TOP OF TILLED SUBGRADE IN 4" LIFTS TO DEPTH REQUIRED.
4. COMPACT EACH LIFT.
5. FINE GRADE FINISHED PLANTING BED AREA PRIOR TO PLANTING OR MULCHING.
6. PLANT AS PER DETAILS AND SPECIFICATIONS.
7. PROTECT PREPARED PLANTING BEDS FROM SUBSEQUENT CONSTRUCTION ACTIVITY.



2 SOIL PLACEMENT - NEW PLANTING BEDS

d-bedprep.dwg

SECTION — SCALE: 1/2" = 1'-0"

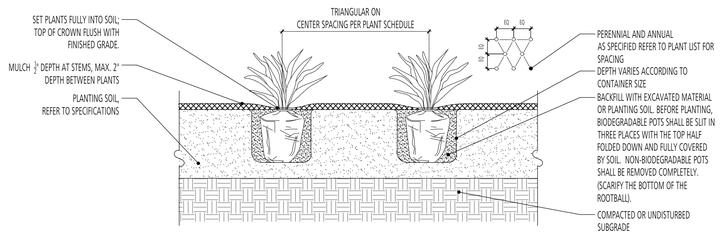


NOTES:
1. IF BED IS MULCHED PRIOR TO BULB PLANTING PULL BACK MULCH PRIOR TO DIGGING HOLE.
2. ACCOUNT FOR DEPTH OF MULCH WHEN PLANTING BULBS.
3. INCORPORATE BULB PLANTING WITHIN PERENNIAL PLANTING.

3 BULB PLANTING DETAIL (TYP.)

d-bulb planting detail.dwg

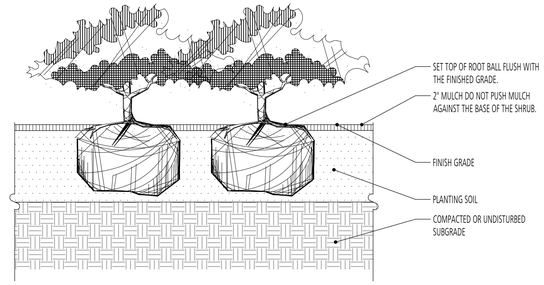
SECTION — SCALE: 1"=1'-0"



4 PERENNIAL PLANTING DETAIL

d-grndcover_planting.dwg

SECTION — SCALE: 1/2" = 1'-0"

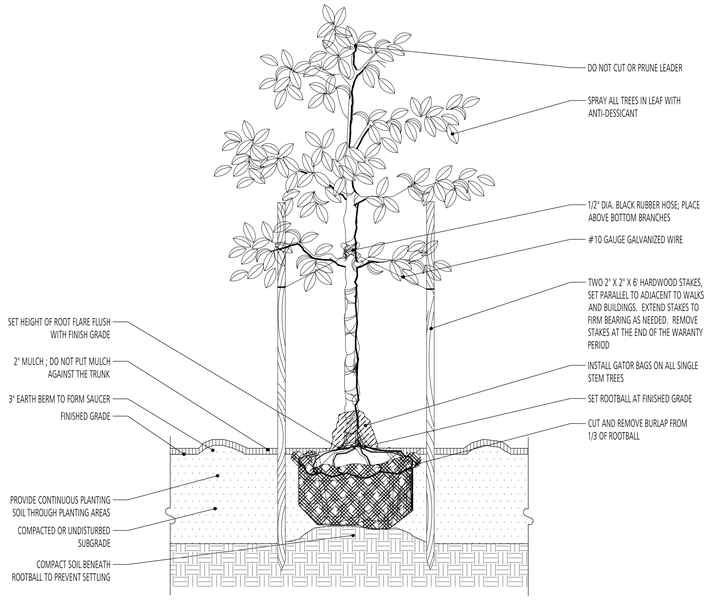


NOTES:
1. COMPLETELY REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL.
2. FOR B&B, CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.
3. PROVIDE 12" MIN. DEPTH OF CONTINUOUS PLANTING SOIL FOR SHRUB BEDS.
4. SHRUBS IN PLANTING BEDS SHALL BE CONTINUALLY MULCHED WITHIN A BED WITH CLEAN SPADED EDGE.

5 SHRUB PLANTING

d-shrub_planting.dwg

SECTION — SCALE: 1/2" = 1'-0"

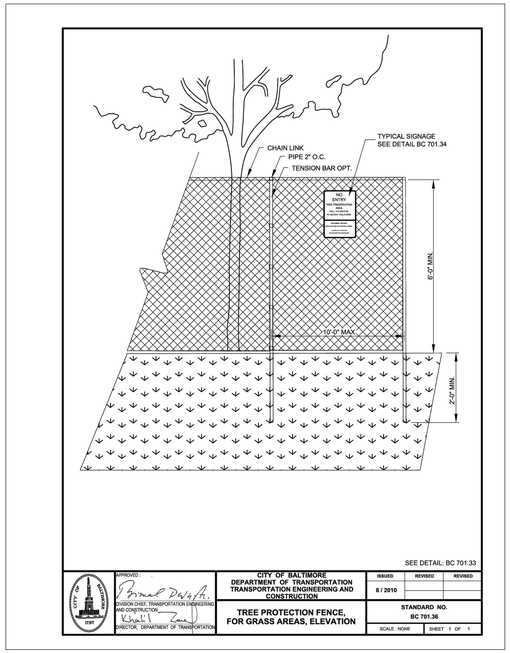


NOTE:
1. REMOVE ANY BROKEN OR DAMAGED BRANCHES WITH CLEAN CUTS.
2. ALL TREES GREATER THAN 3" CALIPER SHOULD BE GUYED, RATHER THAN STAKED.
3. IF TREE COMES IN A BASKET, CUT TOP TWO ROWS OF WIRE IN FOUR PLACES AND FOLD DOWN INTO HOLE. CUT BURLAP AWAY FROM THE TRUNK AND FOLD DOWN INTO HOLE AFTER LOCATION AND DEPTH HAVE BEEN APPROVED BY THE OWNER.

6 TREE PLANTING

d-tree_planting.dwg

SECTION — SCALE: 1/2" = 1'-0"



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DIRECTOR, DEPARTMENT OF TRANSPORTATION

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING AND CONSTRUCTION

TREE PROTECTION FENCE, FOR GRASS AREAS, ELEVATION

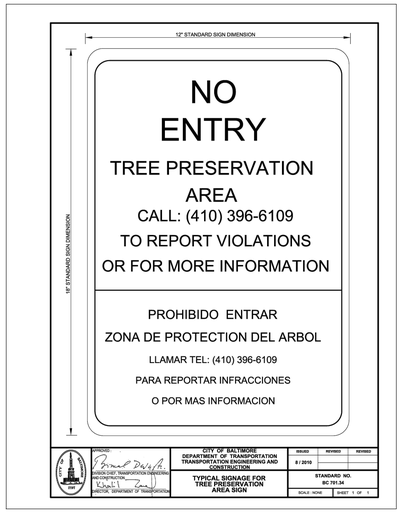
ISSUED	REVISED	REVISED
8 / 2010		

STANDARD NO. BC 701.36
SCALE : NONE — SHEET 1 OF 1

7 TREE PROTECTION FENCING

BALTIMORE CITY STANDARD

SECTION — NOT TO SCALE



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DIRECTOR, DEPARTMENT OF TRANSPORTATION

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING AND CONSTRUCTION

TYPICAL SIGNAGE FOR TREE PRESERVATION AREA SIGN

ISSUED	REVISED	REVISED
8 / 2010		

STANDARD NO. BC 701.34
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8 TREE PROTECTION FENCING SIGNAGE

BALTIMORE CITY STANDARD

ELEVATION — NOT TO SCALE

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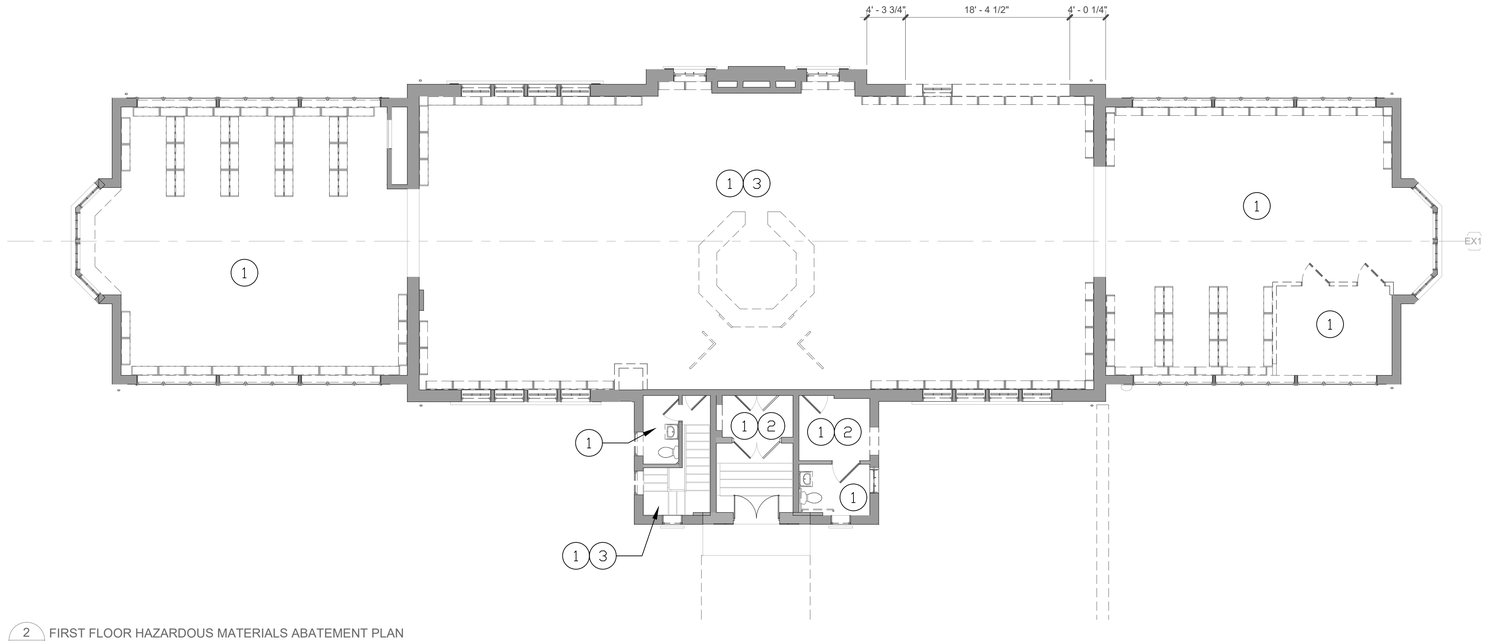
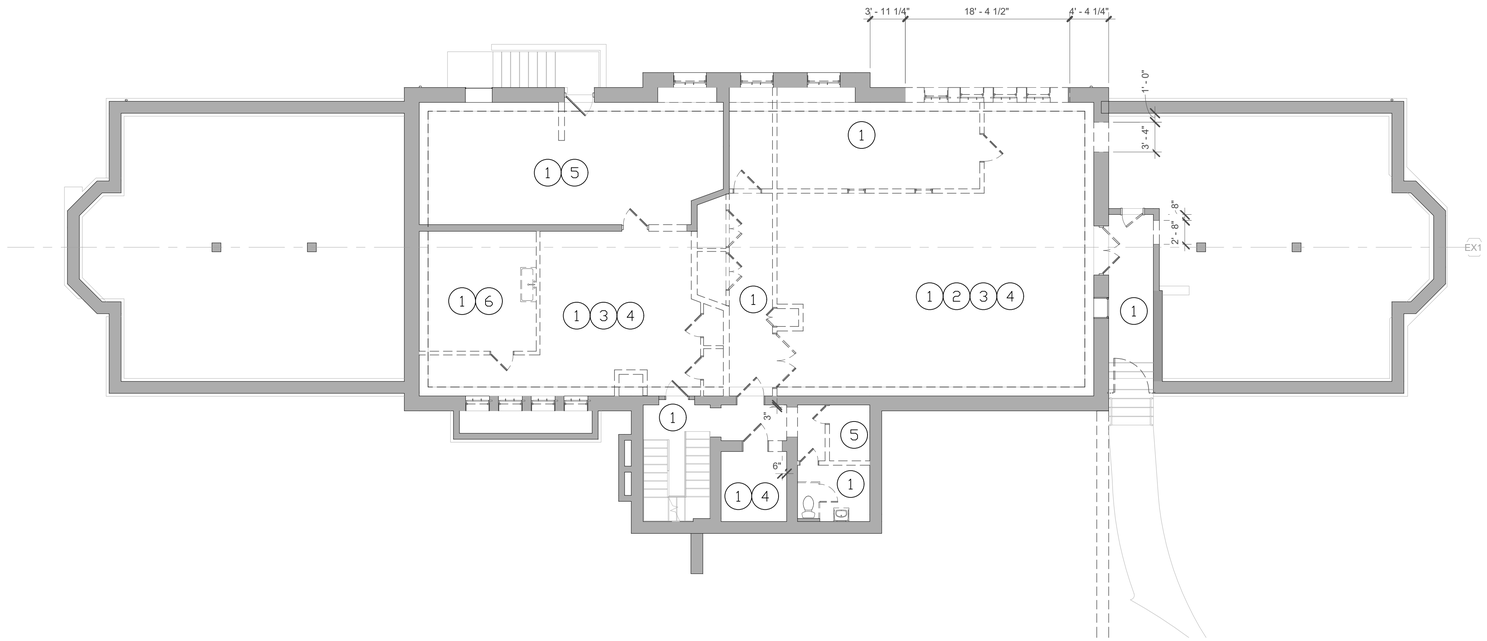


2 HM1.00 FIRST FLOOR HAZARDOUS MATERIALS ABATEMENT PLAN
1/8" = 1'-0"



1 HM1.00 LOWER LEVEL HAZARDOUS MATERIALS ABATEMENT PLAN
1/8" = 1'-0"

GENERAL HAZARDOUS MATERIALS ABATEMENT NOTES:

A. FULL EXTENT OF HAZARDOUS MATERIALS IS DESCRIBED IN THE "HAZARDOUS MATERIALS SURVEY REPORT FOR FOREST PARK LIBRARY" INCLUDED WITH THE PROJECT MANUAL.
B. CONTRACTOR SHALL PERFORM ALL HAZARDOUS AND REGULATED MATERIALS ABATEMENT IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
C. SEE SPECIFICATIONS 02 81 00, 02 82.16, 02 83 13, and 02 84 16, FOR EXISTING HAZARDOUS MATERIALS INVENTORIES, HAZARD COMMUNICATION REQUIREMENTS AND HAZARDOUS MATERIALS ABATEMENT REQUIREMENTS.
D. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF ABATEMENT.
E. ASBESTOS-CONTAINING THERMAL SYSTEM INSULATION AND MISCELLANEOUS MATERIALS MAY EXIST BEHIND SOLID WALLS OR CEILINGS. EXERCISE CARE WHEN DEMOLISHING SOLID WALLS NEAR PIPE CHASES. REPORT THE DISCOVERY OF SUSPECT ACM IMMEDIATELY.
F. DO NOT USE ASBESTOS-CONTAINING, LEAD-CONTAINING OR OTHER HAZARDOUS MATERIALS IN NEW CONSTRUCTION.
G. WELDING, BURNING AND TORCH CUTTING OF SURFACES COATED WITH LEAD-CONTAINING PAINT IS PROHIBITED. PERFORM LEAD-CONTAINING PAINT REMOVAL WHERE WELDED ATTACHMENTS TO STRUCTURAL STEEL WILL OCCUR OR WHERE STRUCTURAL STEEL WILL BE CUT.
H. COLLECT REPRESENTATIVE SAMPLES OF DEMOLITION WASTE FOR TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TESTING FOR LEAD TO DETERMINE WHETHER THE SOLID WASTE IS A CHARACTERISTIC HAZARDOUS WASTE.
I. THE CONTRACTOR SHALL PROVIDE INDUSTRIAL HYGIENE SERVICES INCLUDING CONTRACTOR REQUIRED MONITORING, AREA MONITORING, AND FINAL CLEARANCE INSPECTIONS AND AIR MONITORING SERVICES IN ACCORDANCE WITH 29 CFR 1910.1101, 40 CFR 763 SUBPART M, COMAR 26.11.21, AND SPECIFICATION SECTION 02 08 20.
J. REMOVE AND DISPOSE OF ALL REGULATED WASTE AS INDICATED ON HAZARDOUS MATERIALS ABATEMENT DRAWINGS.
K. CUTTING OR SAWING CONCRETE FLOORS, ROOF DECK AND CONCRETE MASONRY UNIT WALLS WILL CREATE DUST AND MAY RELEASE SILICA AT CONCENTRATIONS EXCEEDING THE OSHA PERMISSIBLE EXPOSURE LIMIT. WORKER PROTECTION, ENGINEERING CONTROLS AND CLEANING PROCEDURES ARE REQUIRED IN ACCORDANCE WITH THE OSHA SILICA STANDARD (29 CFR 1926.1153) TO REDUCE THE RISK OF EXPOSURE TO SILICA DUST.

(#) DRAWING NOTES:

1. REMOVE AND DISPOSE OF ALL LAMPS AS UNIVERSAL WASTE. REMOVE AND INSPECT BALLASTS FOR THE "NO PCB" LABEL. IF PRESENT DISPOSE OF BALLASTS AS SOLID WASTE. IF THE LABEL IS ABSENT DISPOSE OF AS PCB WASTE.
2. REMOVE AND DISPOSE OF AUTOMATIC DOOR CLOSER AND OIL-FILLED DEVICES.
3. REMOVE AND DISPOSE OF BATTERIES AS UNIVERSAL WASTE.
4. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FIRE DOORS.
5. REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING FLOOR TILE AND MASTIC.
6. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK SINK MASTIC.
7. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WINDOW CAULK.
8. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING VENT CAULK.
9. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING TAN EXPANSION JOINT MASTIC.
10. REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FACADE MASTIC.

NOT SHOWN ON DRAWING:

EXTERIOR: (7) (8) (9) (10)

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DEMOLITION PLANS

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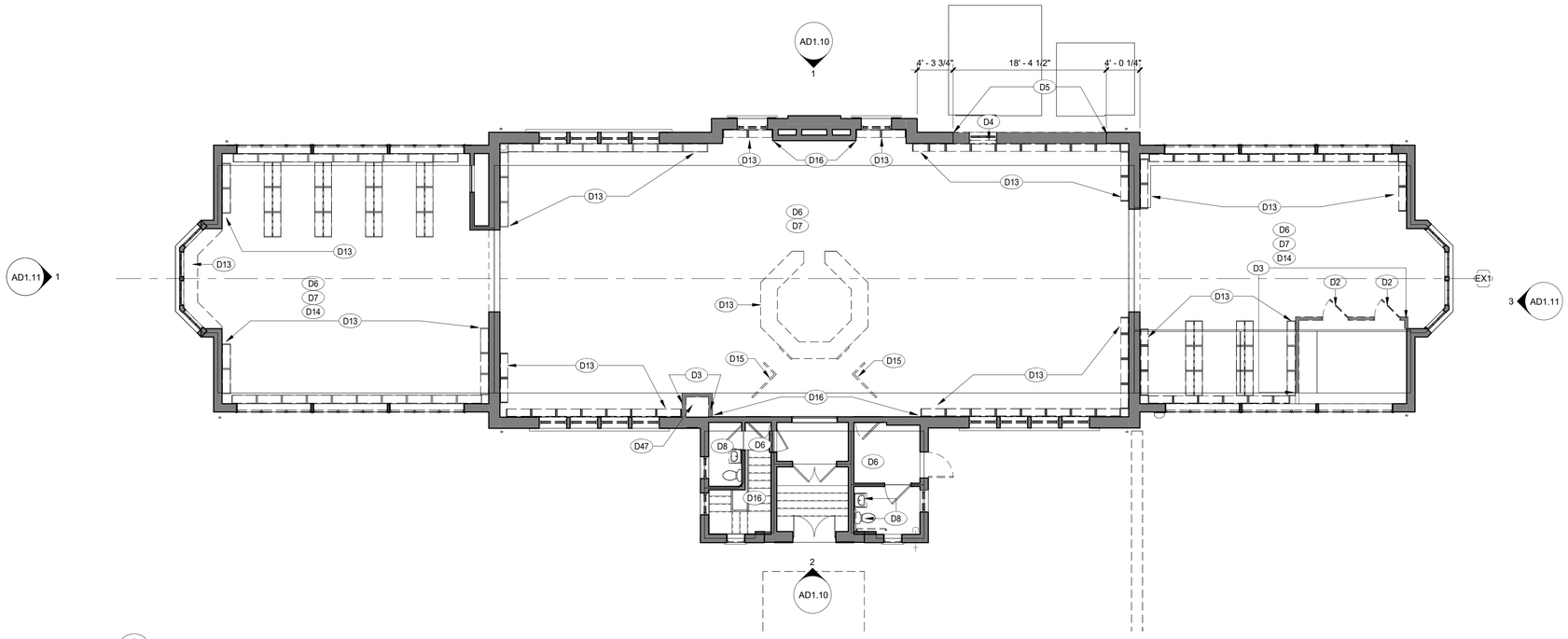
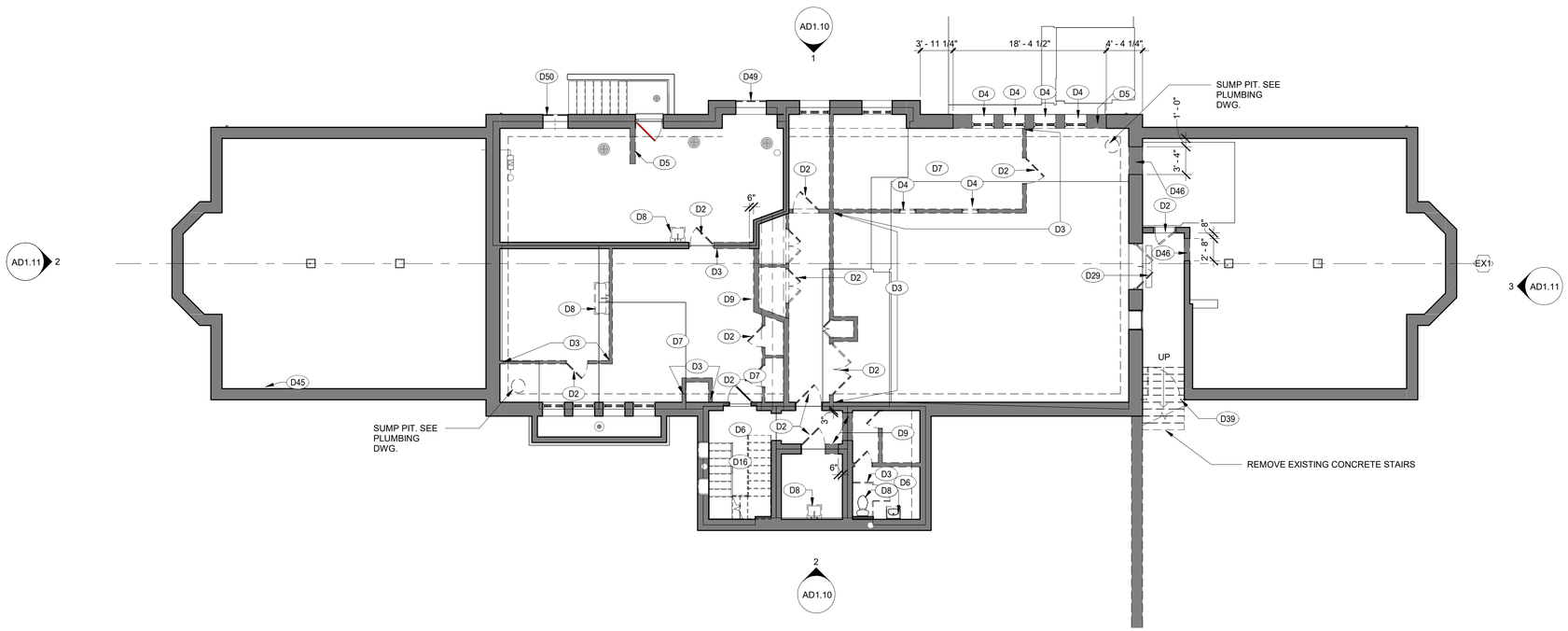


2 AD1.00 FIRST FLOOR DEMO PLAN
1/8" = 1'-0"



1 AD1.00 LOWER LEVEL DEMO PLAN
1/8" = 1'-0"

SYMBOL LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- (#) INDICATES KEY NOTE FOR THIS DRAWING ONLY. SEE KEY NOTES LIST.
- WALLS, FIXTURES ETC. TO BE REMOVED.
- CEILING TO BE REMOVED.

DEMOLITION NOTES

D2 REMOVE EXISTING DOOR, FRAME AND HARDWARE.

D3 REMOVE EXISTING PARTITION WALLS. SALVAGE WOOD BASE WHERE POSSIBLE FOR POTENTIAL REUSE. PATCH AND REPAIR WALLS TO MATCH EXISTING CONSTRUCTION.

D4 REMOVE EXISTING WINDOW, SILL AND TRIM IN ITS ENTIRETY.

D5 SAWCUT AND REMOVE EXISTING MASONRY WALL. PATCH AND REPAIR FLOOR TO MATCH EXISTING UNLESS INDICATED OTHERWISE.

D6 REMOVE EXISTING FLOOR COVERING. PATCH AND REPAIR FLOOR AS REQUIRED FOR AREAS SCHEDULED TO BE EXPOSED CONCRETE AND AREAS SCHEDULED FOR NEW FLOOR COVERING.

D7 REMOVE MULTIPLE LAYERS OF EXISTING LAY-IN TILE CEILING AND GRID OR PLASTER CEILING IN THEIR ENTIRETY INCLUDING MECHANICAL AND ELECTRICAL ITEMS IN CEILING. PLASTER CEILING AND ASSOCIATED CONSTRUCTION TO BE REMOVED UP TO WOOD JOISTS AND/OR RAFTERS.

D8 REMOVE EXISTING PLUMBING FIXTURES PATCH WALL AND FLOOR PREPARE FOR NEW FINISHES AS REQUIRED.

D9 SAWCUT AND REMOVE EXISTING MASONRY BEARING WALL, SUPPORT AS REQUIRED.

D13 REMOVE EXISTING CASEWORK. PATCH AND REPAIR FLOORS AND WALLS TO AS NEW CONDITION TO RECEIVE NEW FINISHES.

D14 REMOVE EXISTING APPLIED ACOUSTIC WALL PANELS AND SUBSTRATE TO MASONRY WALL. PREPARE TO RECEIVE NEW GYPSUM BOARD.

D15 REMOVE EXISTING TURNSTYLE SECURITY GATES. PATCH AND REPAIR FLOOR, PREPARE TO RECEIVE NEW FLOOR COVERINGS.

D16 PROTECT TRIMWORK, WALL BASE, MOULDING, WALL PANELING, STAIR RAILING, HANDRAIL, AND STAIR STRINGER DURING CONSTRUCTION. SALVAGE WOOD BASE WHERE POSSIBLE FOR POTENTIAL REUSE. SAND AND PREPARE FOR PAINT.

D29 REMOVE EXISTING DOOR, HARDWARE, EXIT SIGN AND AUTOMATIC CLOSER. PATCH STOREFRONT OPENING.STOREFRONT GLASS AND FRAME TO REMAIN.

D39 REMOVE EXISTING METAL GATE, FRAME AND HARDWARE. REPAIR EXISTING MASONRY WALLS AS REQUIRED.

D45 REMOVE EXISTING TRENCH COVER AND ASSOCIATED ITEMS IN PREPERATION FOR SLAB INFILL.

D46 CUT AND REMOVE MASONRY WALL FOR NEW DOOR OPENING. SEE STRUCTURAL DWGS FOR DETAILS.

D47 REMOVE EXISTING DUMB WAITER AND IT'S ASSOCIATED EQUIPMENT. INFILL OPENING IN FIRST FLOOR.

D49 REMOVE EXISTING PANEL AND MECHANICAL EQUIPMENT.

D50 REMOVE EXISTING LOUVER.

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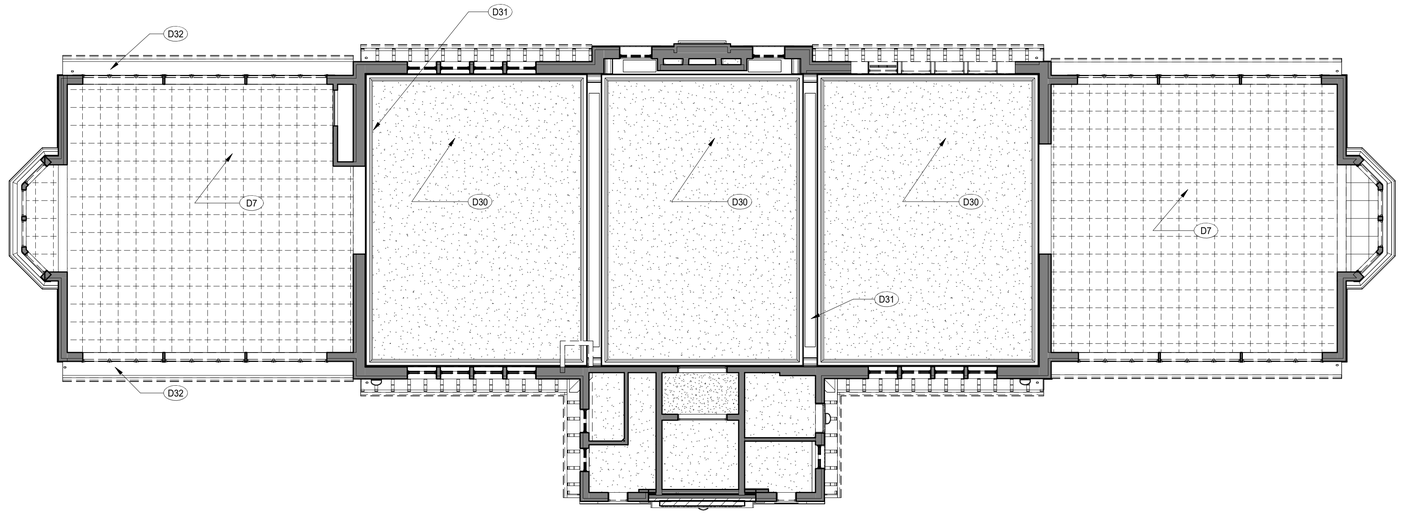
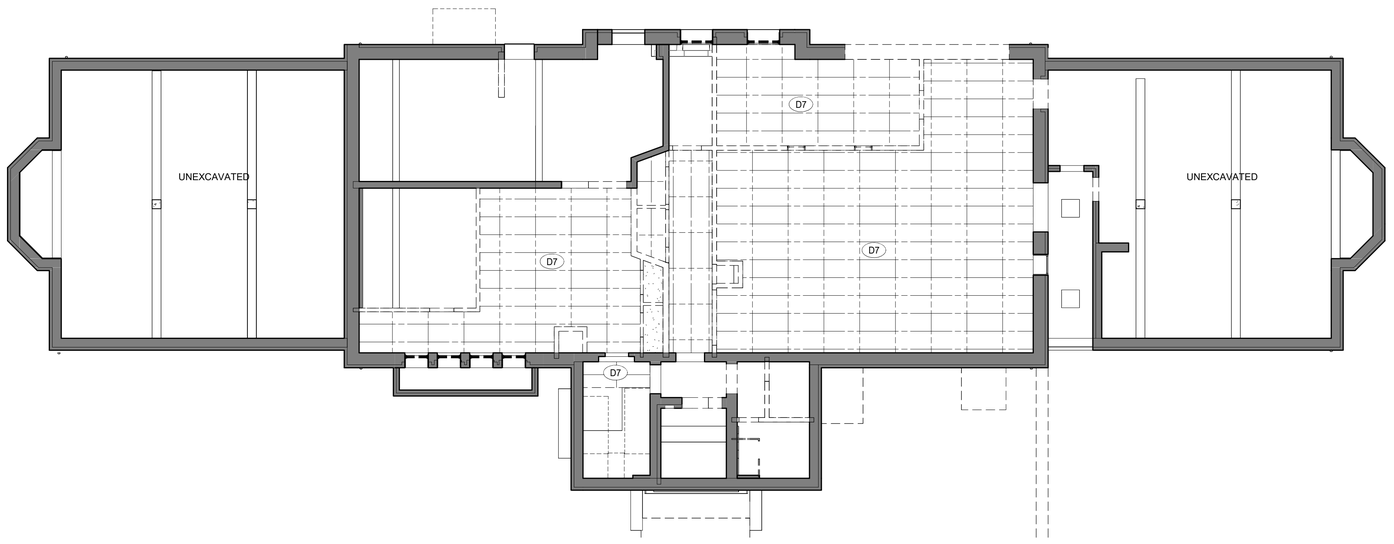
- CEILING TO BE REMOVED.



2 AD1.01 FIRST FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"



1 AD1.01 LOWER LEVEL - REFLECTED CEILING PLAN DEMO
1/8" = 1'-0"

DEMOLITION NOTES

D7 REMOVE MULTIPLE LAYERS OF EXISTING LAY-IN TILE CEILING AND GRID OR PLASTER CEILING IN THEIR ENTIRETY INCLUDING MECHANICAL AND ELECTRICAL ITEMS IN CEILING. PLASTER CEILING AND ASSOCIATED CONSTRUCTION TO BE REMOVED UP TO WOOD JOISTS AND/OR RAFTERS.

D30 REMOVE EXISTING PLASTER CEILINGS INCLUDING MECHANICAL AND ELECTRICAL ITEMS IN CEILING. PROTECT PLASTER AND WOOD BRACKETS AND BEAMS TO REMAIN.

D31 EXISTING PLASTER AND WOOD BRACKETS AND BEAMS TO BE PROTECTED DURING CEILING DEMOLITION.

D32 CLEAN AND PREPARE EXISTING WOOD SOFFIT AND DENTILS ETC. FOR NEW PAINT. ALL LOOSE PAINT TO BE REMOVED. COORDINATE WITH HAZARDOUS MATERIAL REMEDIATION.

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DEMOLITION REFLECTED CEILING PLANS

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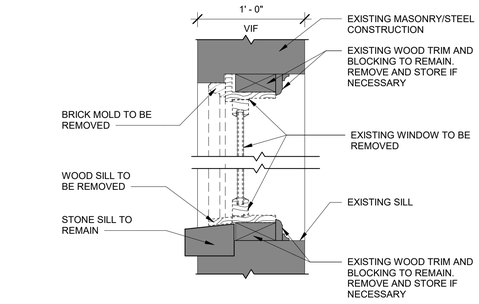
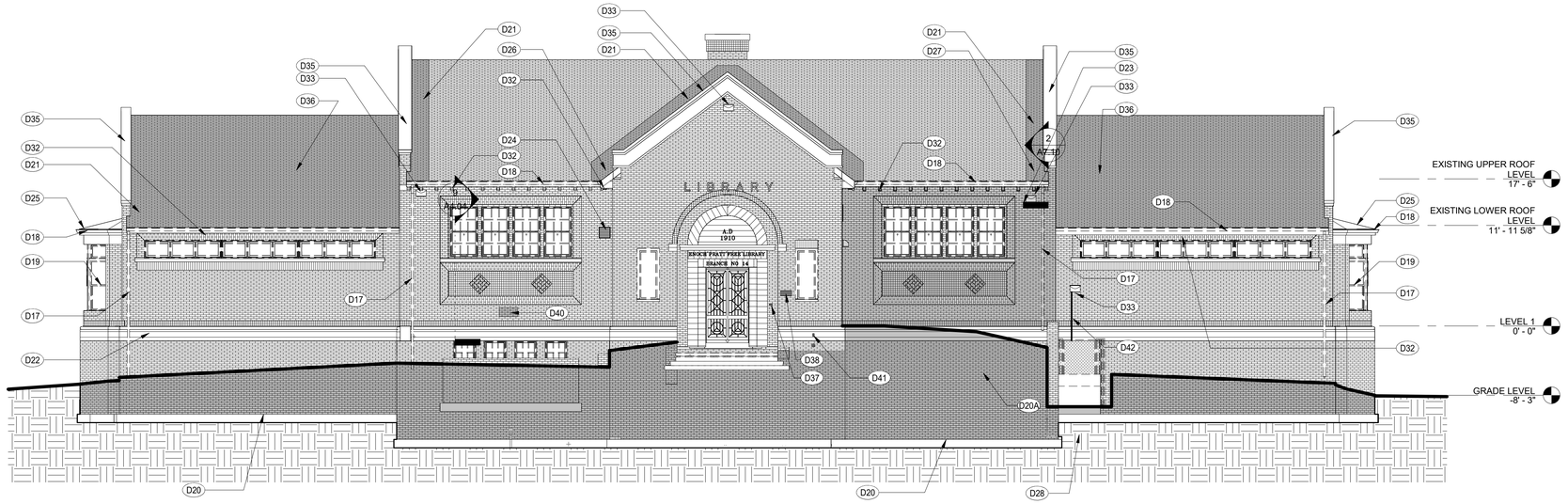


3 AD1.10 TYPICAL WINDOW DEMOLITION DETAIL
1 1/2" = 1'-0"



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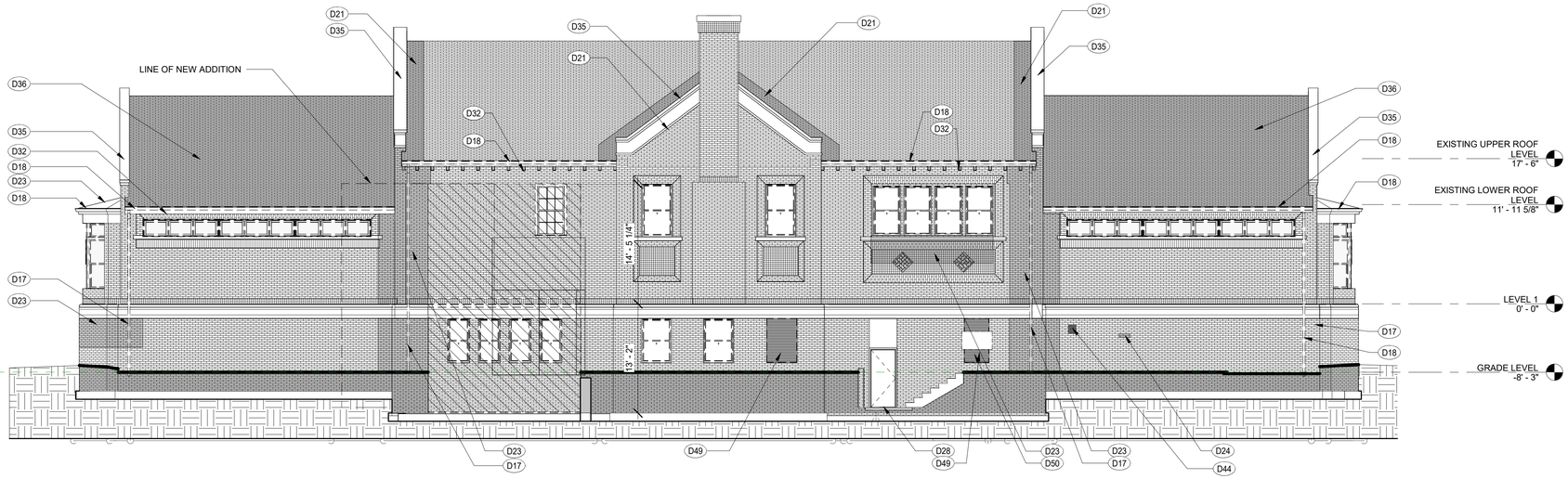

1 AD1.10 EAST DEMOLITION ELEVATION
1/8" = 1'-0"

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- CEILING TO BE REMOVED.

DEMOLITION GENERAL NEW WORK

1 ALL SIGNAGE, CAMERAS, BRACKETS LIGHTS, ETC TO BE REMOVED INCLUDING ALL BLOCKING. CLEAN ALL PAINT, SEALANT STAINING ON EXISTING MASONRY

2 ALL MORTAR JOINTS AND SEALANTS AT CAST STONE WATER TABLE, LINTELS AND WINDOW SILLS AND BETWEEN CAST STONE AND BRICK TO BE REPOINTED WITH HAND TOOLS, TYPICAL.

3 REPOINT BRICK MASONRY AT WINDOWS AND DOOR JAMBS. EXTEND FOR 12 INCHES +/-.

4 CLEAN ALL VINES AND VEGETATION OUTGROWN ON EXTERIOR WALLS.

5 EXCAVATE AROUND BASEMENT WALLS DOWN TO TOP OF FOOTINGS. INSTALL WATERPROOFING MEMBRANE AND DRAINAGE PROTECTION BOARD.

6 ANY SLATE SHINGLES DAMAGED DURING REMOVAL TO BE REPLACED TO MATCH EXISTING.

DEMOLITION NOTES

D17 REMOVE DOWNSPOUT, BRACKETS, PIPE CONNECTIONS ETC. REPAIR MASONRY AS NECESSARY FOR NEW DOWNSPOUT INSTALLATION.

D18 REMOVE GUTTERS, BRACKETS ETC. REPAIR GUTTERBOARD AS NECESSARY FOR NEW GUTTER INSTALLATION.

D19 REMOVE EXISTING WOOD WINDOWS, STORM WINDOWS, AND TRIM BACK TO STRUCTURAL OPENING. REMOVE AND RETAIN INTERIOR WOOD TRIM FOR REINSTALLATION WITH NEW WINDOWS. REPAIR EXISTING STRUCTURAL OPENING AS REQUIRED FOR NEW WINDOW INSTALLATION.

D20 REMOVE SOIL DOWN TO TOP OF FOOTING. REMOVE FOUNDATION WATERPROOFING AND PREPARE WALL FOR NEW FOUNDATION WATERPROOFING INSTALLATION. SEE PLUMBING DRAWINGS FOR FOUNDATION DRAIN REQUIREMENTS.

D20A AREAS OF WALL EXPOSED TO DAYLIGHT AFTER NEW GRADING TO BE CLEANED AND RESTORED TO FINISH APPEARANCE TO MATCH EXISTING MASONRY.

D21 REMOVE SLATE SHINGLES AS REQUIRED FOR INSTALLATION OF NEW FLASHINGS. SAVE SHINGLES FOR REINSTALLATION WITH NEW COPPER FLASHING.

D22 REPOINT WATER TABLE CAST STONE MORTAR JOINTS. ONLY USE HAND TOOLS.

D23 CLEAN DIRT AND ORGANIC GROWTH ON MASONRY. REPOINT MASONRY THIS AREA. ONLY USE HAND TOOLS ONLY.

D24 REMOVE EXISTING LOUVER. CUT NEW OPENING IN WALL WHEN OPENING IS BLOCKED. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL HEADER REQUIREMENTS IF NEEDED.

D25 REMOVE ENTIRE BAY METAL ROOFING, FLASHING, UNDERLAYMENT, GUTTER ETC. INSPECT EXISTING SHEATHING AND REPLACE ANY DAMAGED WOOD.

D26 REPLACE DAMAGED AND MISSING SHINGLES NEAR ROOF VALLEY.

D27 REPLACE MISSING SLATE SHINGLES TO MATCH EXISTING.

D28 CLEAN OUT EXISTING STORM DRAIN AND PIPING.

D32 CLEAN AND PREPARE EXISTING WOOD SOFFIT AND DENTILS ETC. FOR NEW PAINT. ALL LOOSE PAINT TO BE REMOVED. COORDINATE WITH HAZARDOUS MATERIAL REMEDIATION.

D33 EXISTING WALL MOUNTED LIGHTS TO BE REMOVED.

D35 REMOVE ALL LOOSE COPING STONES, CLEAN MORTAR, SEALANT, ETC. IN PREPERATION FOR REINSTALLATION.

D36 REMOVE SLATE SHINGLES, UNDERLAYMENT, AND FLASHINGS ON ENTIRE WING.

D37 REMOVE EXISTING KNOX BOX AND DELIVER TO OWNER.

D38 EXISTING BUILDING ADDRESS SIGN TO REMAIN.

D40 REMOVE EXISTING SIGNAGE. TYPICAL ALL OLD METAL SIGNAGE PANELS

D41 EXISTING HOSE BIB. CLEAN AND REPAIR LIMESTONE AND BRICK AROUND HOSE BIB AND PIPE PENITRATION.

D42 REMOVE EXISTING ELECTRICAL CONDUIT AND WIRING.

D44 REMOVE EXISTING MISMATCHED BRICK AND INFILL OPENING WITH SLAVAGED BRICK TO MATCH EXISTING.

D49 REMOVE EXISTING PANEL AND MECHANICAL EQUIPMENT.

D50 REMOVE EXISTING LOUVER.

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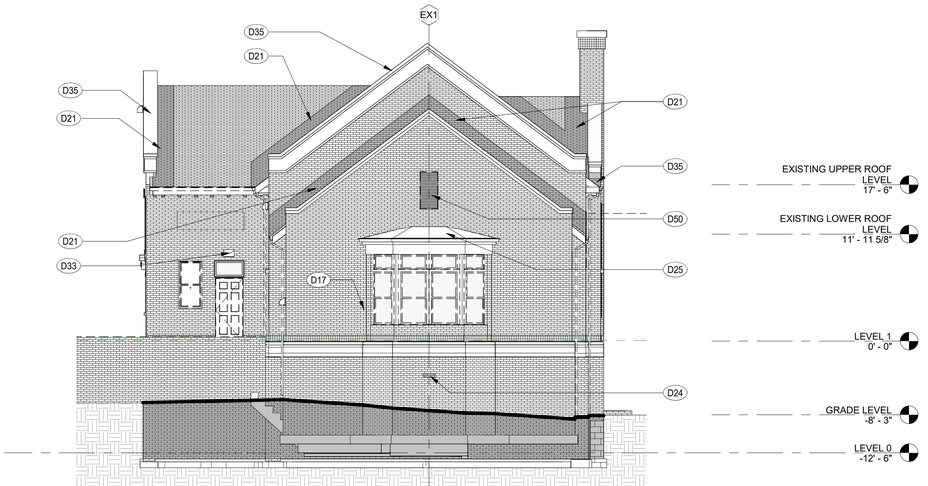
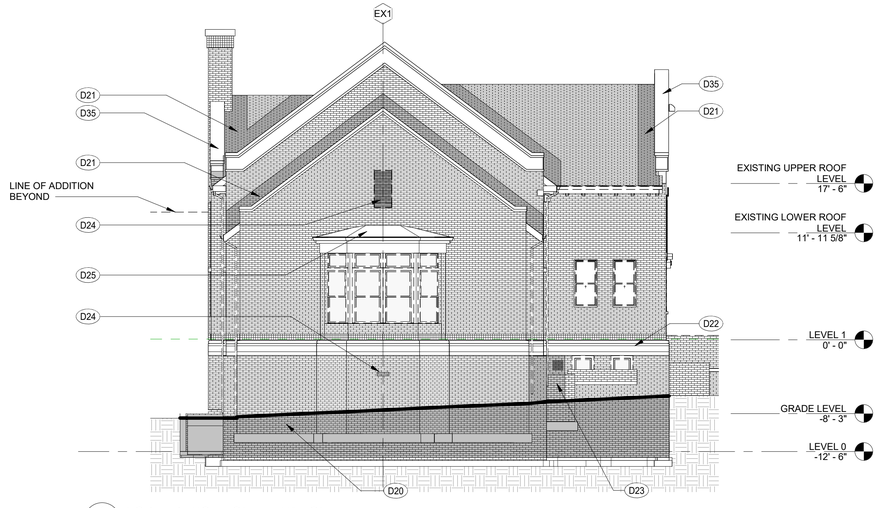
- WALLS, FIXTURES ETC. TO BE REMOVED.
- CEILING TO BE REMOVED.



2 AD1.11 SOUTH DEMOLITION ELEVATION
1/8" = 1'-0"



1 AD1.11 NORTH DEMOLITION ELEVATION
1/8" = 1'-0"

DEMOLITION GENERAL NEW WORK

1 ALL SIGNAGE, CAMERAS, BRACKETS LIGHTS, ETC TO BE REMOVED INCLUDING ALL BLOCKING. CLEAN ALL PAINT, SEALANT STAINING ON EXISTING MASONRY
2 ALL MORTAR JOINTS AND SEALANTS AT CAST STONE WATER TABLE, LINTELS AND WINDOW SILLS AND BETWEEN CAST STONE AND BRICK TO BE REPOINTED WITH HAND TOOLS, TYPICAL.
3 REPOINT BRICK MASONRY AT WINDOWS AND DOOR JAMBS. EXTEND FOR 12 INCHES +/-.
4 CLEAN ALL VINES AND VEGETATION OUTGROWN ON EXTERIOR WALLS.
5 EXCAVATE AROUND BASEMENT WALLS DOWN TO TOP OF FOOTINGS. INSTALL WATERPROOFING MEMBRANE AND DRAINAGE PROTECTION BOARD.
6 ANY SLATE SHINGLES DAMAGED DURING REMOVAL TO BE REPLACED TO MATCH EXISTING.

DEMOLITION NOTES

D17 REMOVE DOWNSPOUT, BRACKETS, PIPE CONNECTIONS ETC. REPAIR MASONRY AS NECESSARY FOR NEW DOWNSPOUT INSTALLATION.
D20 REMOVE SOIL DOWN TO TOP OF FOOTING. REMOVE FOUNDATION WATERPROOFING AND PREPARE WALL FOR NEW FOUNDATION WATERPROOFING INSTALLATION. SEE PLUMBING DRAWINGS FOR FOUNDATION DRAIN REQUIREMENTS.
D21 REMOVE SLATE SHINGLES AS REQUIRED FOR INSTALLATION OF NEW FLASHINGS. SAVE SHINGLES FOR REINSTALLATION WITH NEW COPPER FLASHING.
D22 REPOINT WATER TABLE CAST STONE MORTAR JOINTS. ONLY USE HAND TOOLS.
D23 CLEAN DIRT AND ORGANIC GROWTH ON MASONRY. REPOINT MASONRY THIS AREA. ONLY USE HAND TOOLS ONLY.
D24 REMOVE EXISTING LOUVER. CUT NEW OPENING IN WALL WHEN OPENING IS BLOCKED. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL HEADER REQUIREMENTS IF NEEDED.
D25 REMOVE ENTIRE BAY METAL ROOFING, FLASHING, UNDERLAYMENT, GUTTER ETC. INSPECT EXISTING SHEATHING AND REPLACE ANY DAMAGED WOOD.
D33 EXISTING WALL MOUNTED LIGHTS TO BE REMOVED.
D35 REMOVE ALL LOOSE COPING STONES, CLEAN MORTAR, SEALANT, ETC. IN PREPERATION FOR REINSTALLATION.
D50 REMOVE EXISTING LOUVER.

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SYMBOL LEGEND - PHOTOS

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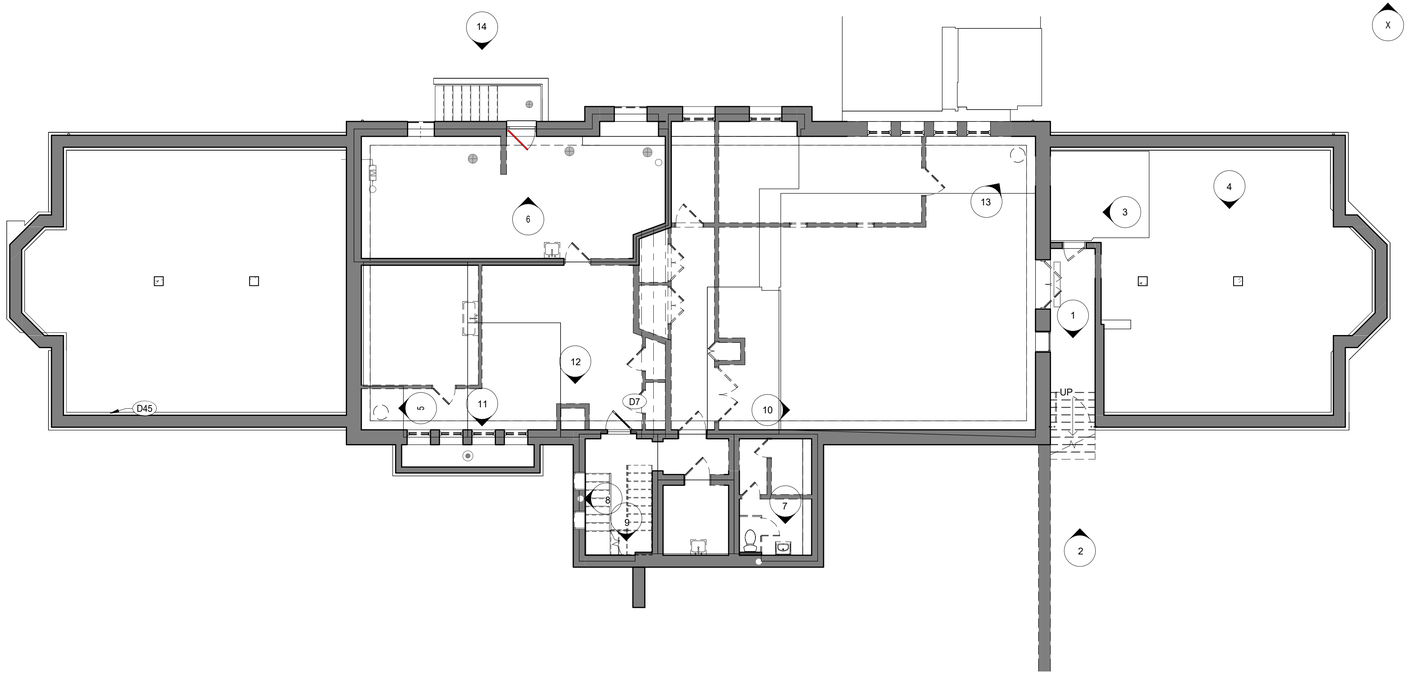
SEE SHEETS AD2.01 AND AD2.02 FOR REFERANCED PHOTOS



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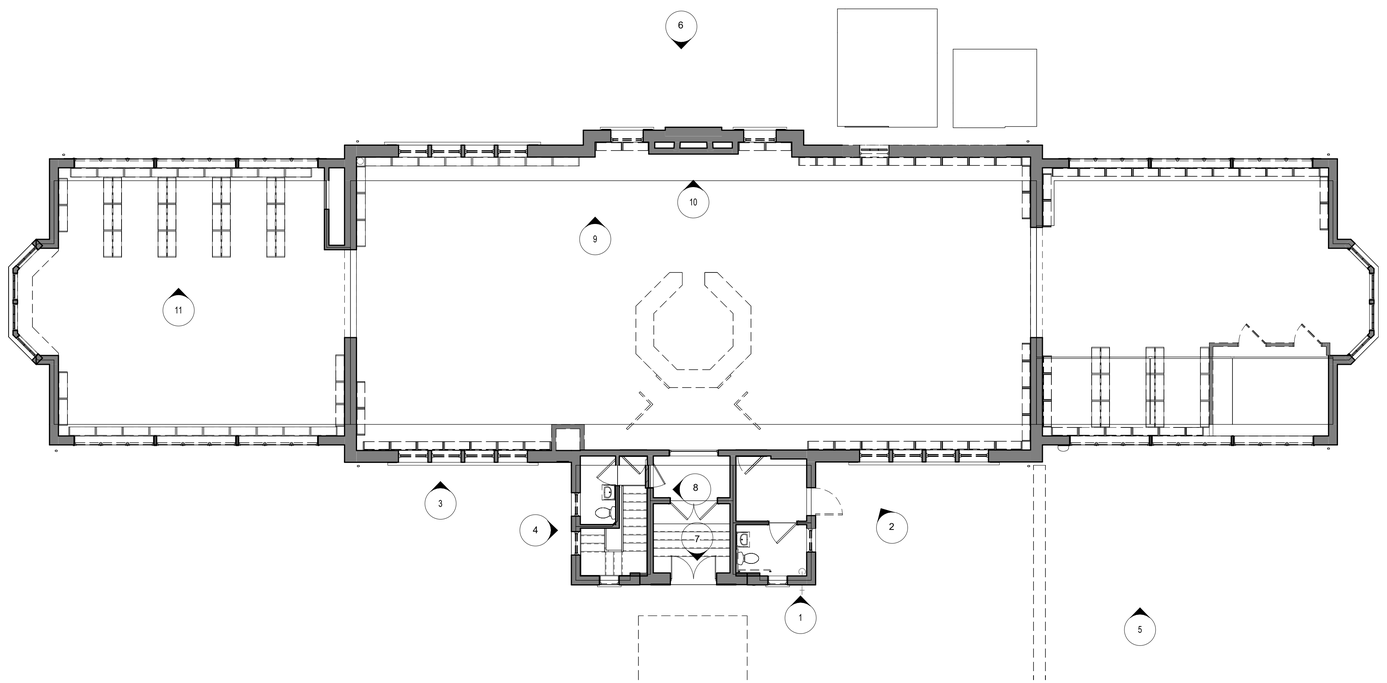
1/8" = 1'-0"



2 AD2.00 FIRST FLOOR DEMO PLAN
1/8" = 1'-0"

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DEMOLITION PLAN AND PHOTOS

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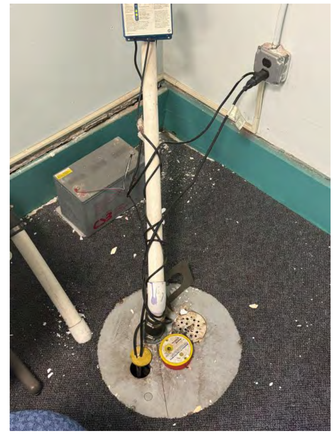

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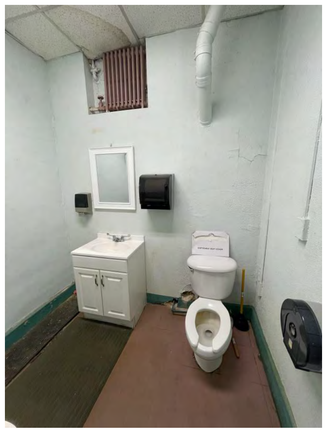

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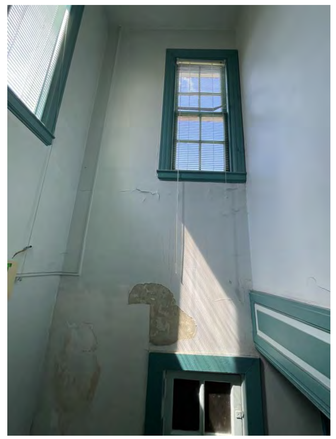

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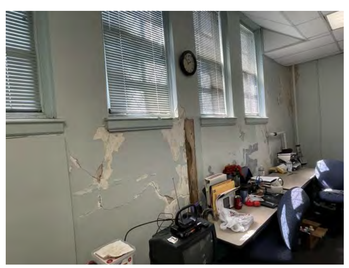

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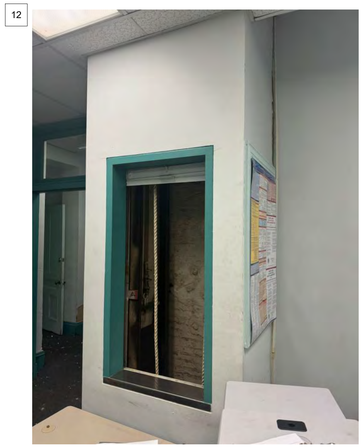

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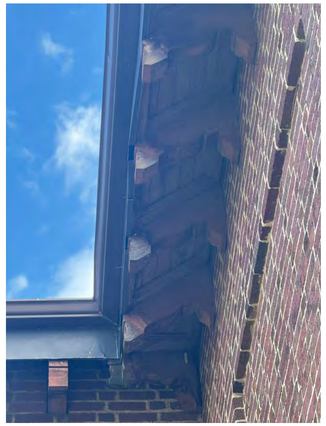

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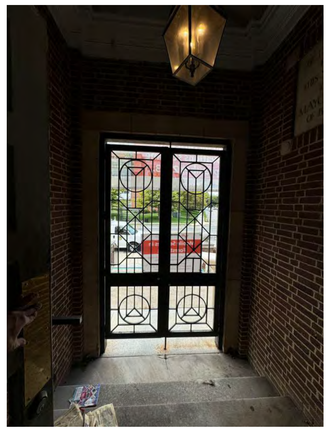

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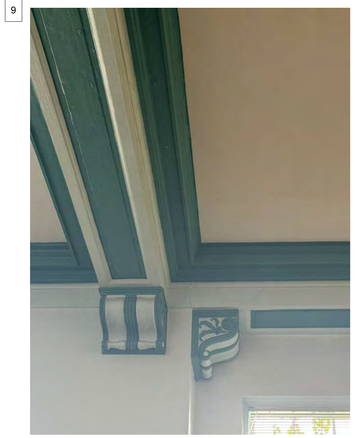

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DEMOLITION PLANS - PHOTOS LOCATIONS

AD2.02

SHEET 56 OF 179

22057

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PLAN GENERAL NOTES

1 DIMENSIONS SHOWN ON THE FLOOR PLAN FOR CONSTRUCTION ARE TO THE CENTERLINE OF COLUMNS TO THE FINISH FACE OF INTERIOR PARTITION OR TO THE EXTERIOR FACE OF THE STUD AT THE EXTERIOR WALLS.

2 ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL, UNLESS NOTED OTHERWISE. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL, FIXED EQUIPMENT, CASEWORK.

3 ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSET, ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.

4 CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH DRAWINGS FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY THE ARCHITECT.

5 ALL WORK CONSIDERED NEW, UNLESS OTHERWISE NOTED.

6 UNLESS NOTED OTHERWISE, THE DISTANCE FROM THE ADJACENT WALL TO THE SCHEDULED DOOR OPENING IS 4".

7 CONTRACTOR OPTION, EITHER REINSTALL SALVAGED WOOD BASE OR INSTALL NEW WOOD BASE TO MATCH EXISTING. IF NEW WOOD BASE IS INSTALLED THEN FINISH TO MATCH ORGINAL INSTALLATION. IF REUSING WOOD BASE PATCH AND REPAIR AS NEEDED TO MATCH ORIGINAL INSTALLATION. ALL WOOD BASE, TRIMWORK, PANELING, EXISTING DOORS, ETC. TO BE PREPARED FOR PAINTING.

8 EXISTING TO REMAIN WALLS TO BE PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. VERIFY EXTENT OF NECESSARY REPAIRS IN FIELD.

9 ALL ELECTRICAL/DATA BOXES AND CONDUIT MUST BE RECESSED INTO WALLS. AND PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. SEE 11/A8.15 FOR TYP DETAIL AT MASONRY WALL LOCATIONS.

10 ALL NEW POWER, TELECOM, LOW VOLTAGE WIRING TO BE RECESSED INTO EXISTING WALLS PER DETAIL 11/A8.15 TYP.

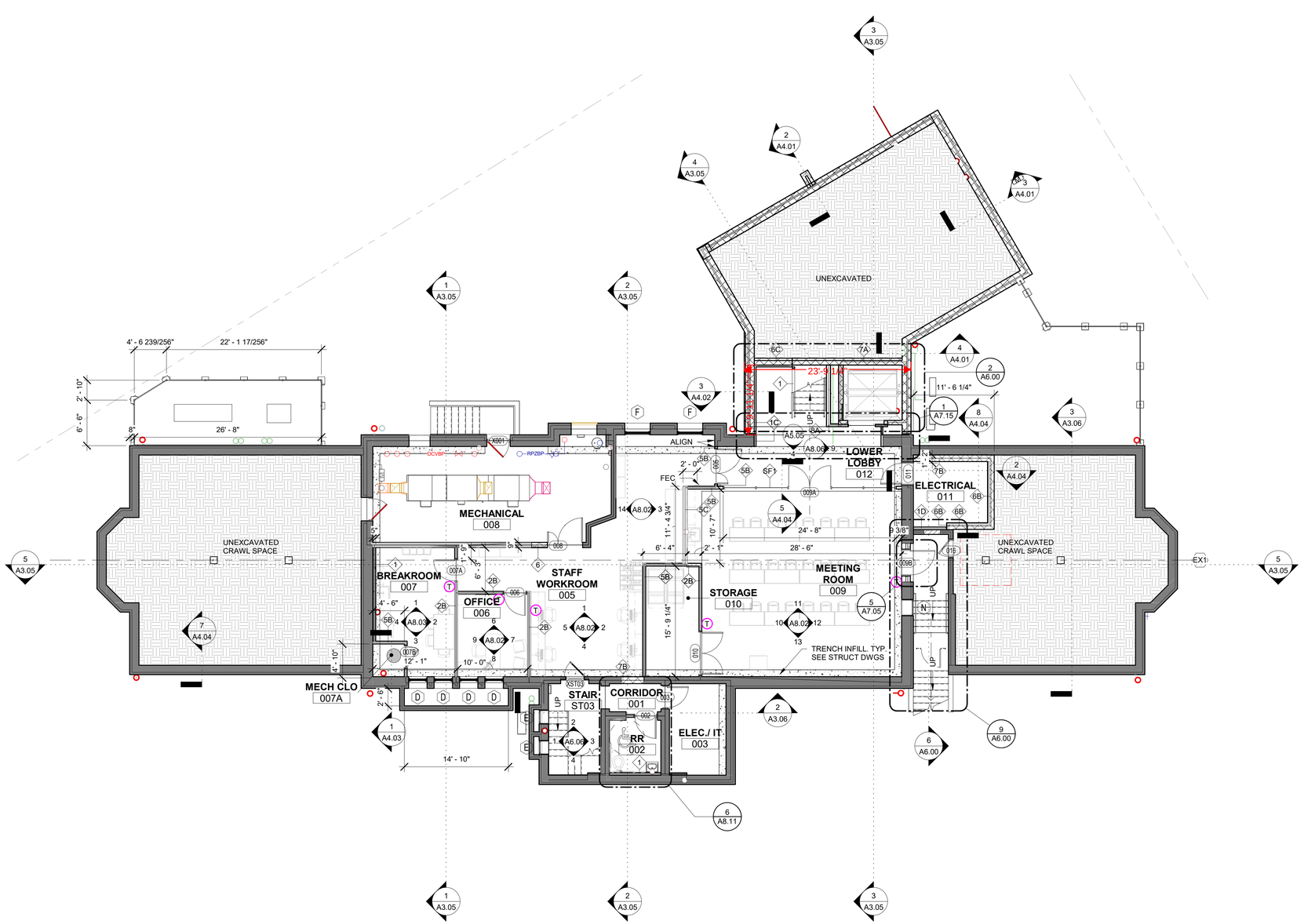
SYMBOL LEGEND

EXISTING CONSTRUCTION

NEW CONSTRUCTION

WALL PARTITION TYPE. REFER TO SHEET A4.10 FOR ADDITIONAL INFORMATION.

XX## EXTERIOR STOREFRONT. REFER TO SHEET A5 SERIES FOR ADDITIONAL INFORMATION.



1 A1.00 LOWER LEVEL
1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN

A1.00

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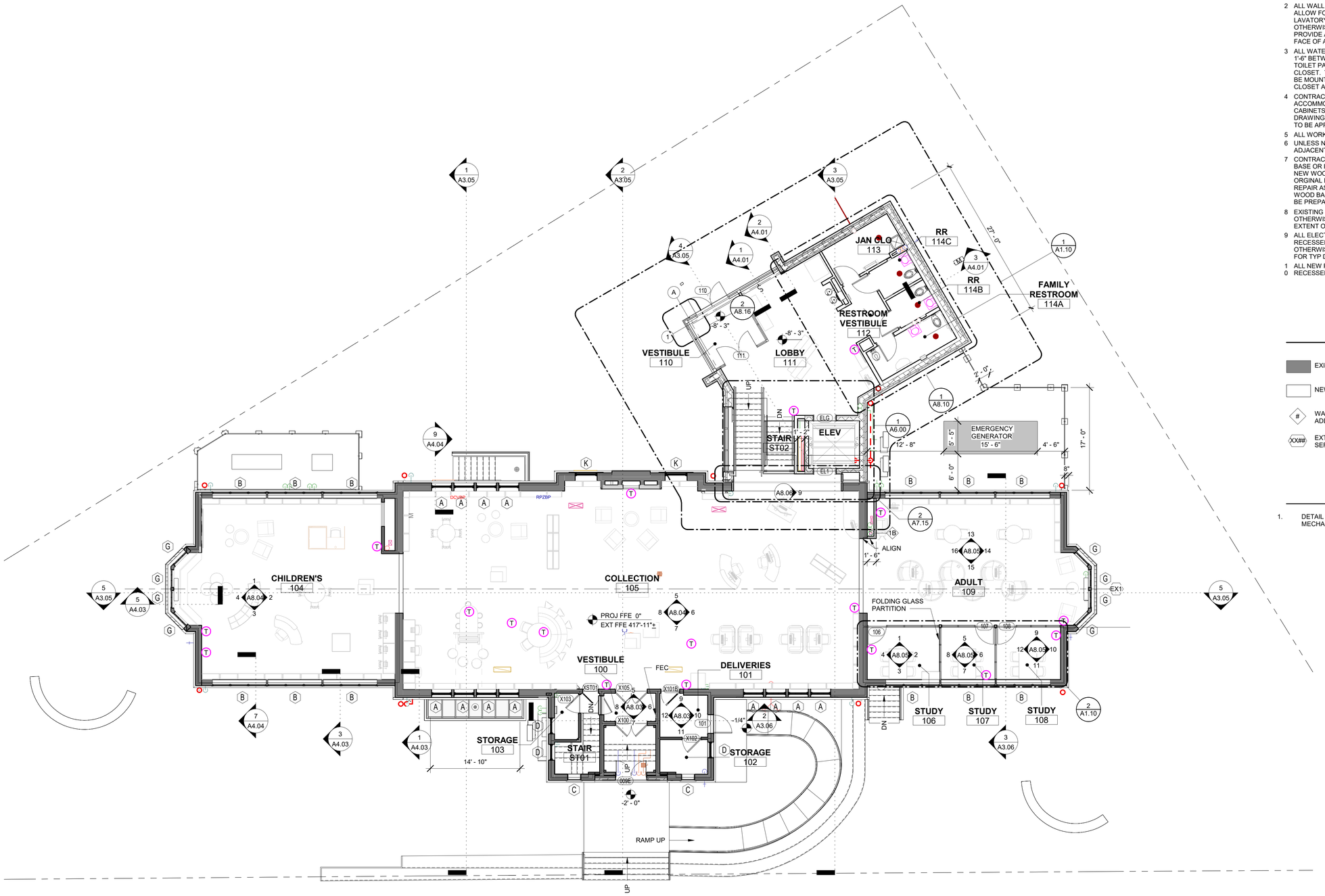

1 A1.01 FIRST FLOOR PLAN
1/8" = 1'-0"

PLAN GENERAL NOTES

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8. EXISTING TO REMAIN WALLS TO BE PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. VERIFY EXTENT OF NECESSARY REPAIRS IN FIELD.
9. ALL ELECTRICAL/DATA BOXES AND CONDUIT MUST BE RECESSED INTO WALLS. AND PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. SEE 11/A8.15 FOR TYP DETAIL AT MASONRY WALL LOCATIONS.
10. ALL NEW POWER, TELECOM, LOW VOLTAGE WIRING TO BE RECESSED INTO EXISTING WALLS PER DETAIL 11/A8.15 TYP.

SYMBOL LEGEND

- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- # WALL PARTITION TYPE. REFER TO SHEET A4.10 FOR ADDITIONAL INFORMATION.
- XX## EXTERIOR STOREFRONT. REFER TO SHEET A5 SERIES FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. DETAIL 9/A4.04 TYPICAL AT ALL EXISTING ABANDONED MECHANICAL OPENINGS IN EXISTING EXTERIOR WALLS.

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FIRST FLOOR PLAN

A1.01

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ROOF PLAN GENERAL NOTES

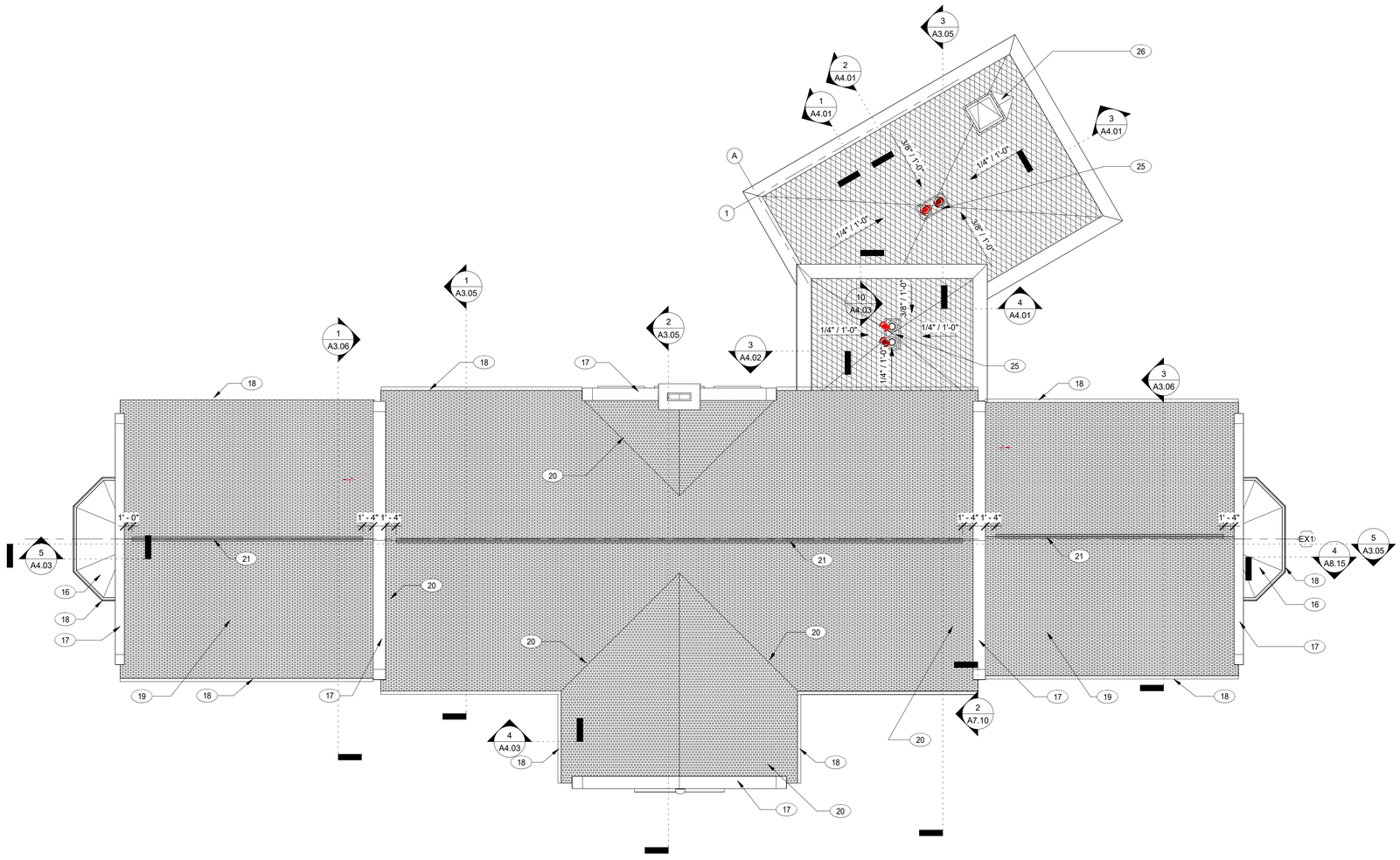
1. LOW POINT AT ROOF DRAIN IS REFERENCE AS (+0"); HIGH POINT OF INSULATION IS REFERENCED FROM ROOF DRAIN.
2. TAPERED INSULATION SLOPES AT 1/4" PER FOOT MINIMUM.
3. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.
4. SEE DEMOLITION DRAWINGS FOR SCOPE OF WORK ON SLATE ROOF.
5. FIRE CLASSIFICATION REQUIREMENT OF THE NEW AND EXISTING ROOF IS CLASSIFICATION C. SLATE ROOFING SYSTEM IS CLASS A.

SYMBOL LEGEND

- FULLY ADHERED THERMOPLASTIC MEMBRANE ROOF
- EXISTING ROOF
- REPRESENTS ROOF SYSTEM WALK PADS
- ROOF HATCH

ROOF PLAN NOTES

16. NEW COPPER ROOFING, FLASHING, UNDERLAYMENT, GUTTER ETC.
17. REINSTALL ALL LOOSE COPING STONES.
18. INSTALL NEW GUTTERS, DOWNSPOUTS AND BRACKETS. PAINT GUTTERBOARD AFTER NECESSARY REPAIRS.
19. INSTALL NEW SLATE ROOFING, UNDERLAYMENT AND COPPER FLASHING THIS WING.
20. SEE DEMOLITION DRAWINGS FOR AREAS OF NEW AND REINSTALLED SLATE, UNDERLAYMENT AND COPPER FLASHING.
21. NEW RIDGE VENT. SEE DETAIL 5/A7.15.
25. COMBINATION ROOF/OVERFLOW DRAIN
26. ROOF CRICKET AS REQUIRED



1 A1.02 ROOF PLAN
1/8" = 1'-0"

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ROOF PLAN

A1.02

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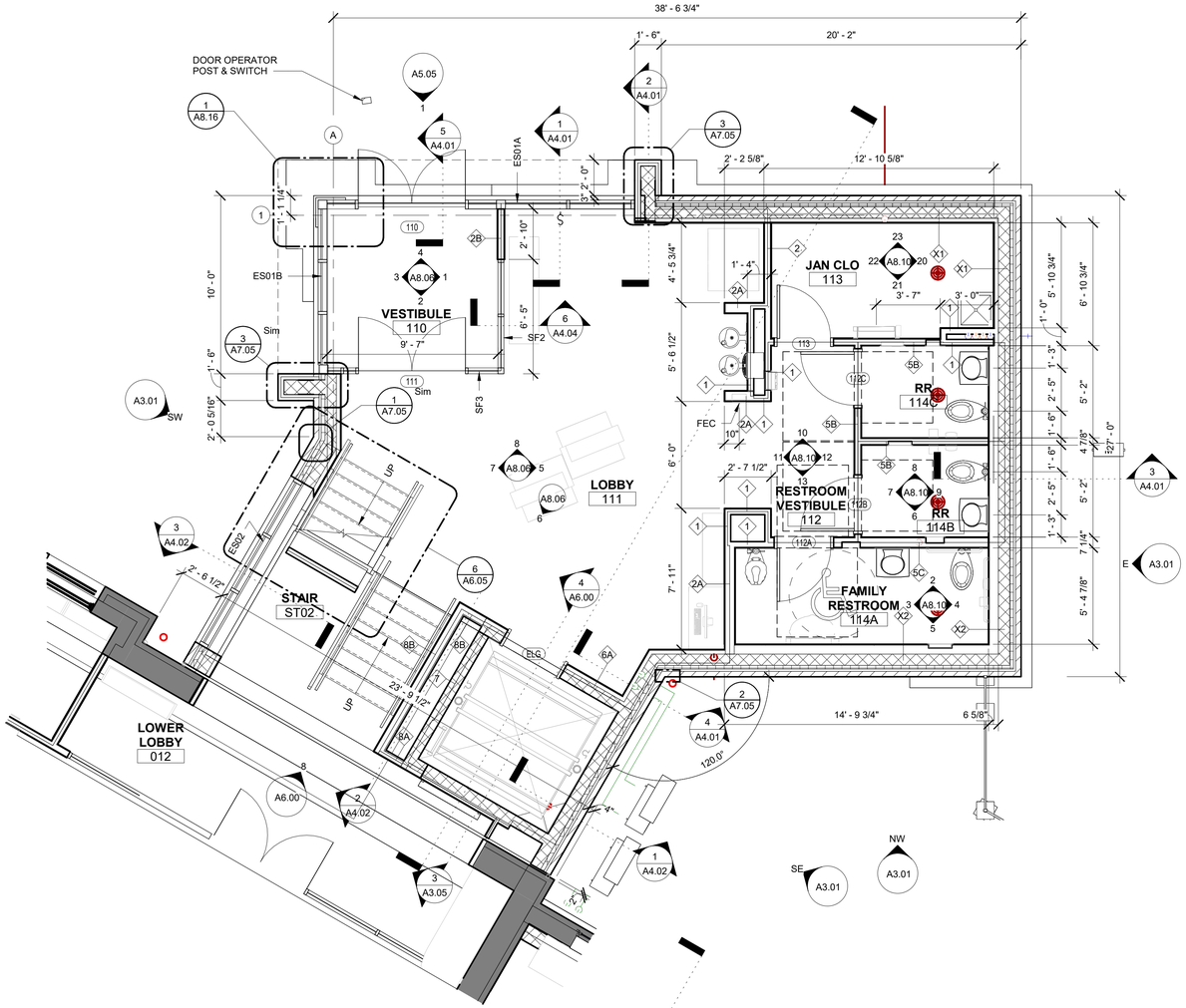
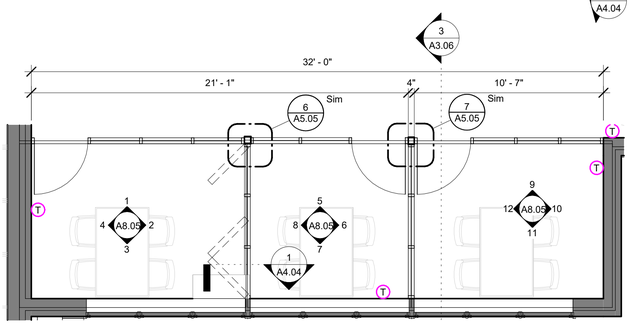
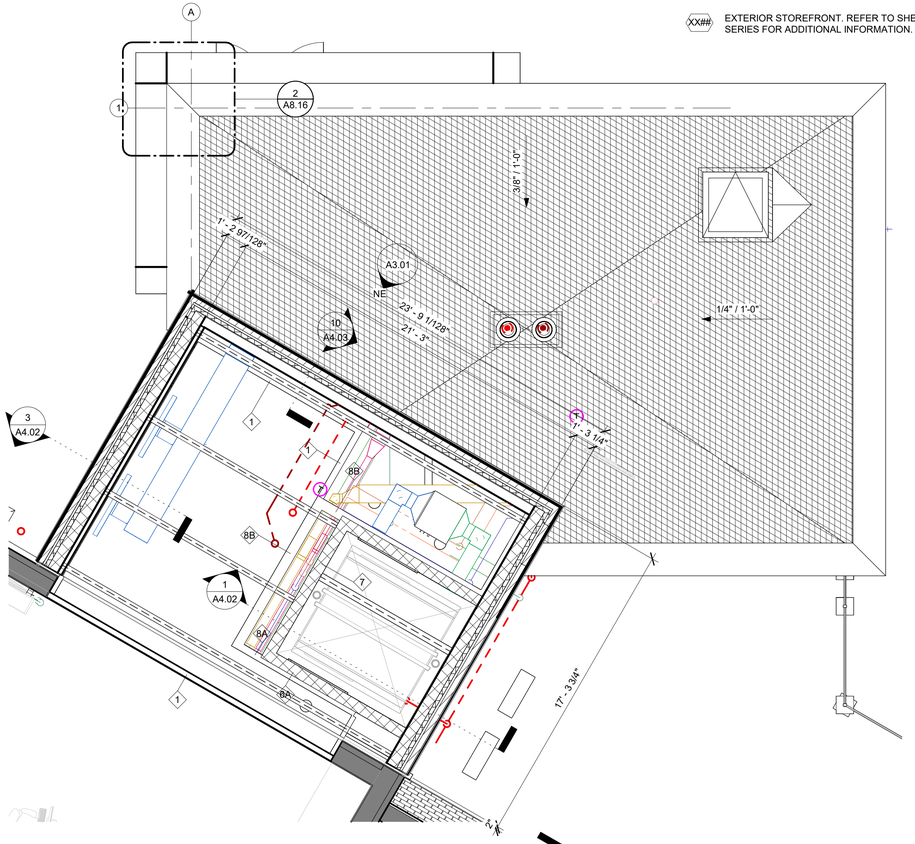


1 A1.10 GRADE LEVEL - ENLARGED FLOOR PLAN
1/4" = 1'-0"



2 A1.10 STUDY ROOM PLAN
1/4" = 1'-0"



3 A1.10 UPPER FIRST FLOOR PLAN
1/4" = 1'-0"

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PLAN GENERAL NOTES

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SYMBOL LEGEND

EXISTING CONSTRUCTION

NEW CONSTRUCTION

WALL PARTITION TYPE. REFER TO SHEET A4.10 FOR ADDITIONAL INFORMATION.

XX## EXTERIOR STOREFRONT. REFER TO SHEET A5 SERIES FOR ADDITIONAL INFORMATION.

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ENLARGED PLANS

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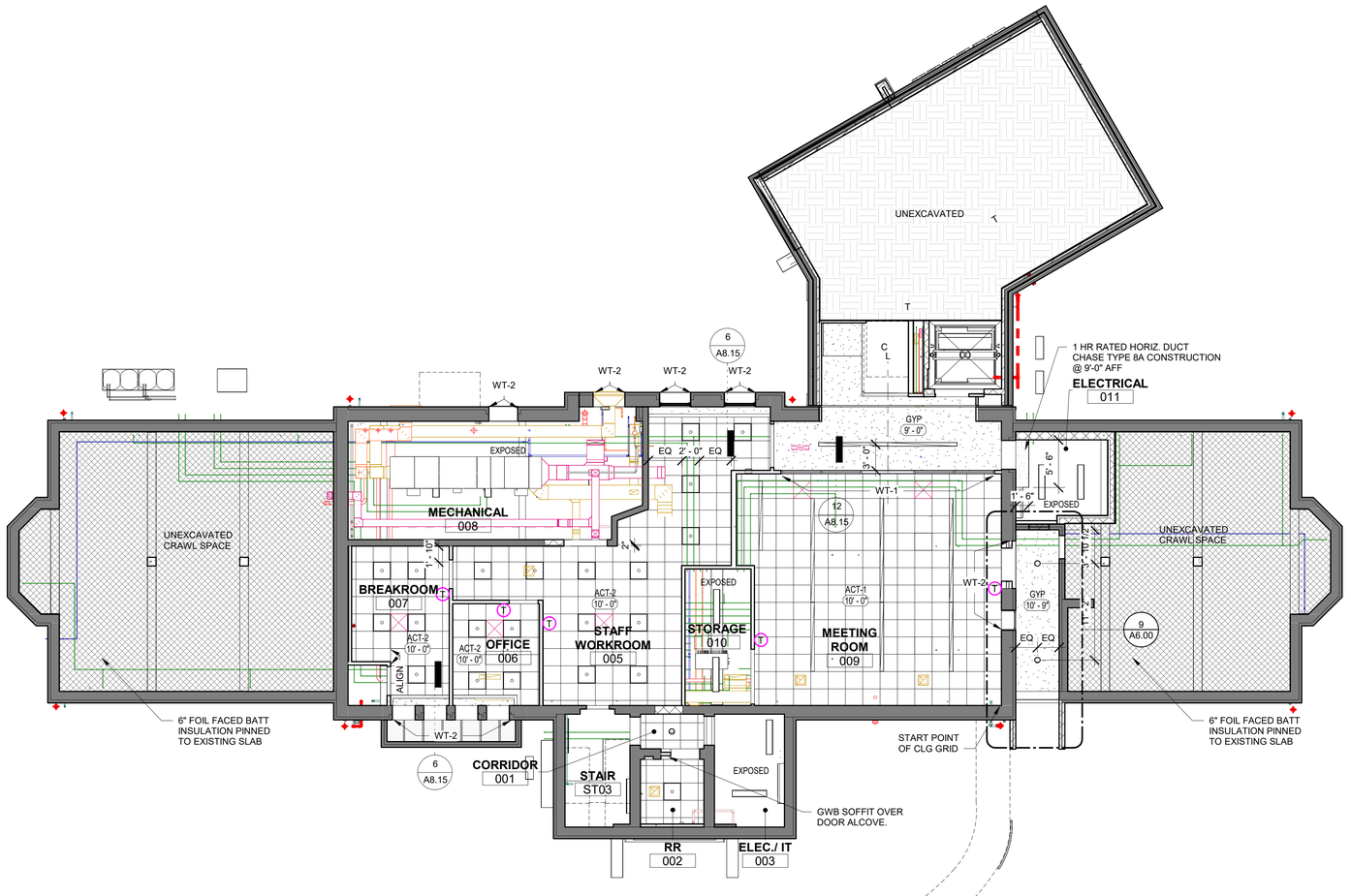

1 A2.00 LOWER LEVEL - REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. THE CONTRACTOR MUST SUBMIT TO ARCHITECT A COORDINATED REFLECTED CEILING PLAN FOR REVIEW AND APPROVAL INCORPORATING LIGHT FIXTURES, SPRINKLER HEADS AND MECHANICAL LAYOUTS.
2. REFER TO HVAC DRAWINGS FOR LOCATION OF SUPPLY DIFFUSERS AND RETURN GRILLS.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, ETC.
4. SPRINKLER HEADS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS. SPRINKLER HEADS TO ALIGN WITH EACH OTHER IN BOTH NORTH/ SOUTH AND EAST/ WEST DIRECTIONS WHERE THEY OCCUR IN A SINGLE SPACE. SIMILARLY FOR OTHER CEILING DEVICES. REFER TO FIRE PROTECTION DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF APPROPRIATE SIZE AND TYPE TO ACCESS AND SERVICE EQUPMENT SHOULD BE INSTALLED IN GYPSUM BOARD CEILINGS OR SOFFITS AND OTHER NON ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICES OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE NEEDED. ACCESS PANELS SHALL BE OF FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR.
6. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS AND IN HARD SURFACE SOFFITS SO THAT THE ARCHITECT, THE STATE AND LOCAL OFFICIALS CAN INSPECT RATED WALLS. THESE ACCESS PANELS SHALL BE LOCATED AS NECESSARY TO VIEW ALL SURFACES OF THE RATED WALL(S).
7. NO EXPOSED FASTENERS.
8. SEE DETAIL A5/A8.15 FOR WINDOW SHADE DETAILS
9. CEILING GRID TO BE CENTERED IN ROOM UNO
10. SPRINKLER HEADS, SPEAKERS, STROBES ETC. TO BE CENTERED IN CEILING TILE UNO
11. FOR LIGHT FIXTURE SCHEDULE SEE DWG E6.01

SYMBOL LEGEND

CEILING TYPES:
SEE FINISH LEGEND FOR FURTHER INFORMATION.

- ACT: ACOUSTICAL CEILING TILE
- GYP: GYPSUM BOARD
- NO CEILING - EXPOSED

FIXTURES:
SEE ELECTRICAL DWGS FOR FURTHER INFORMATION.

- DECORATIVE PENDENT
- 2 x 2 RECESSED FIXTURE
- RECESSED LINEAR
- INDIRECT/DIRECT PENDENT
- RECESSED CAN LIGHT
- UTILITY LIGHT

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LOWER LEVEL REFLECTED CEILING PLAN

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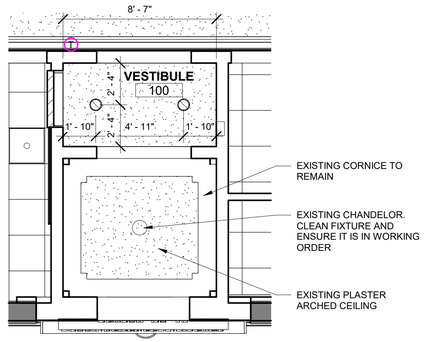
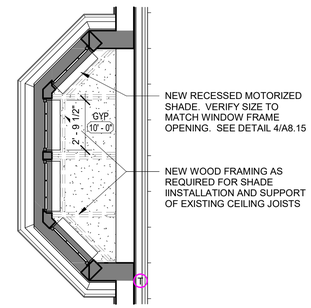
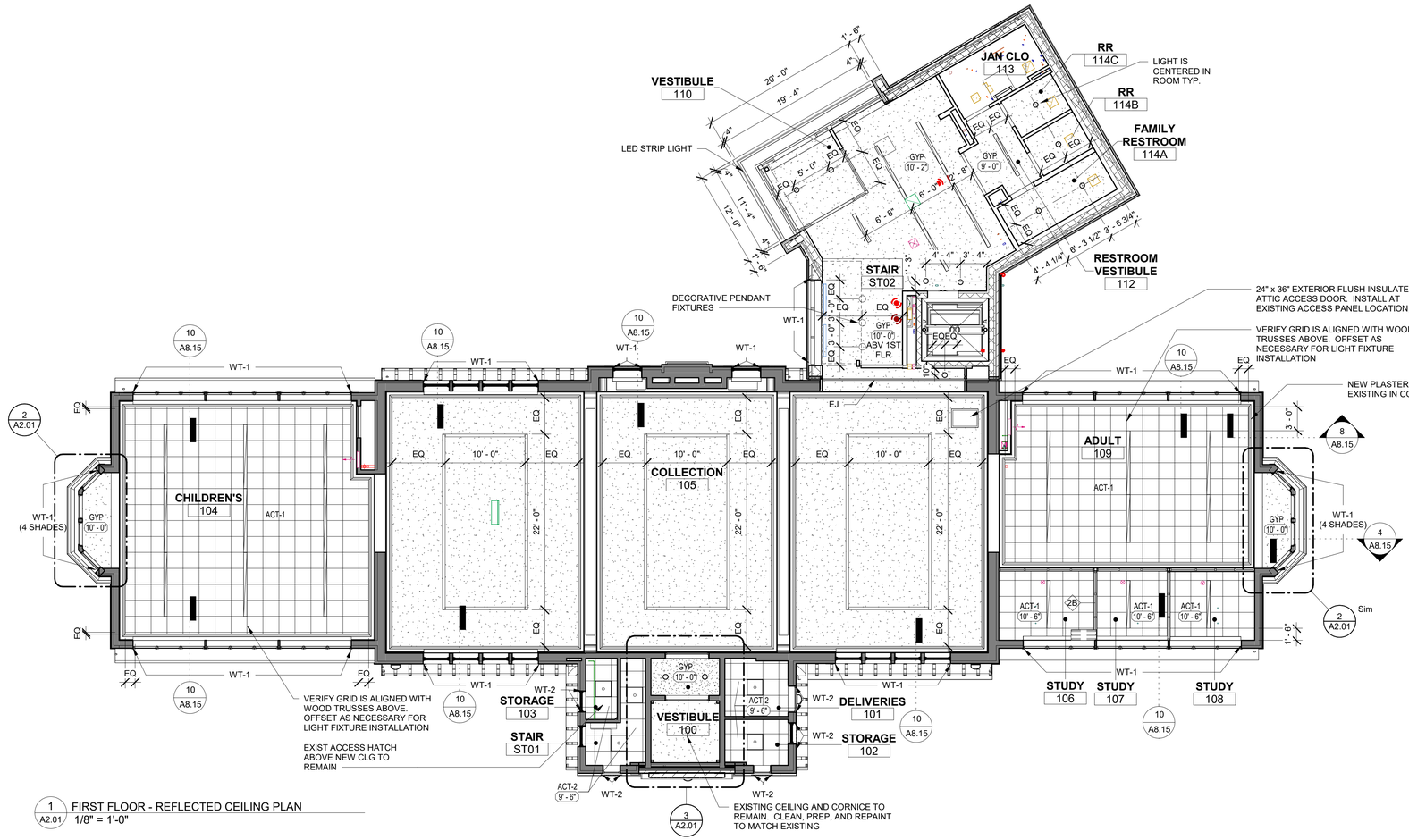


3 A2.01 FOYER RCP
1/4" = 1'-0"



2 A2.01 BAY WINDOW CEILING
1/4" = 1'-0"



1 A2.01 FIRST FLOOR - REFLECTED CEILING PLAN
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SYMBOL LEGEND

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SEE FINISH LEGEND FOR FURTHER INFORMATION.

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FIRST FLOOR REFLECTED CEILING PLAN

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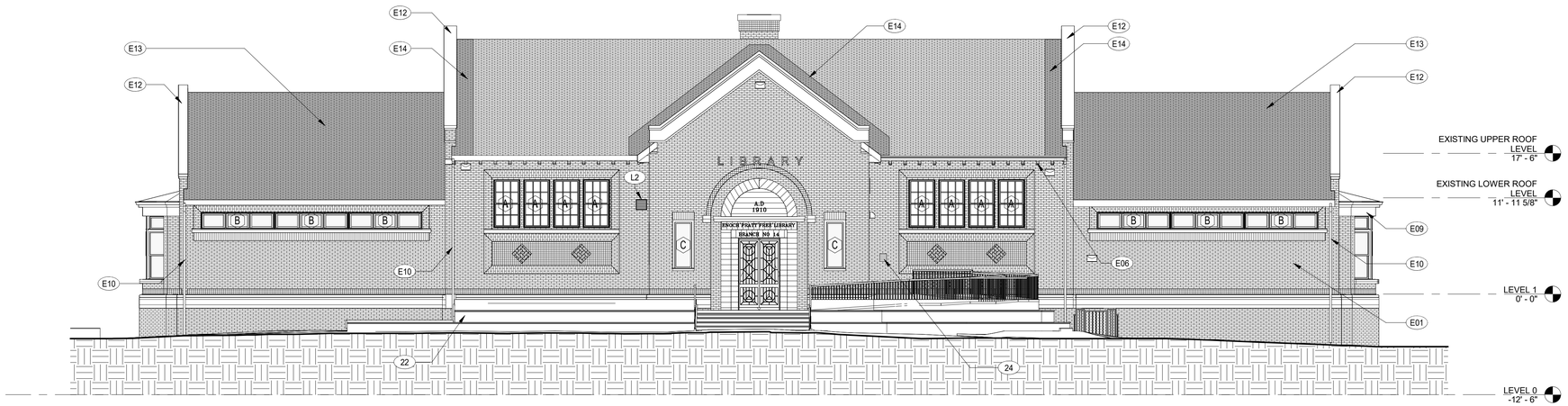
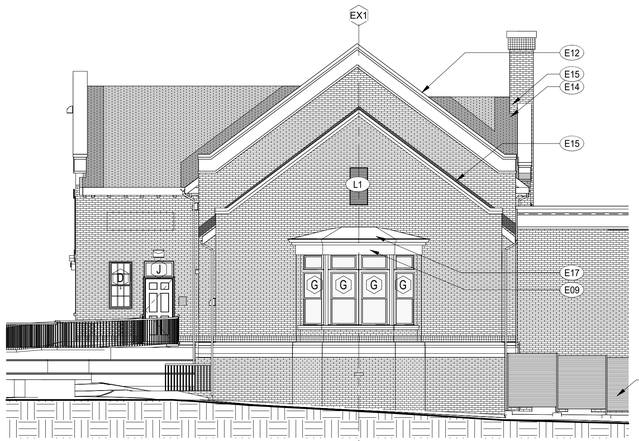
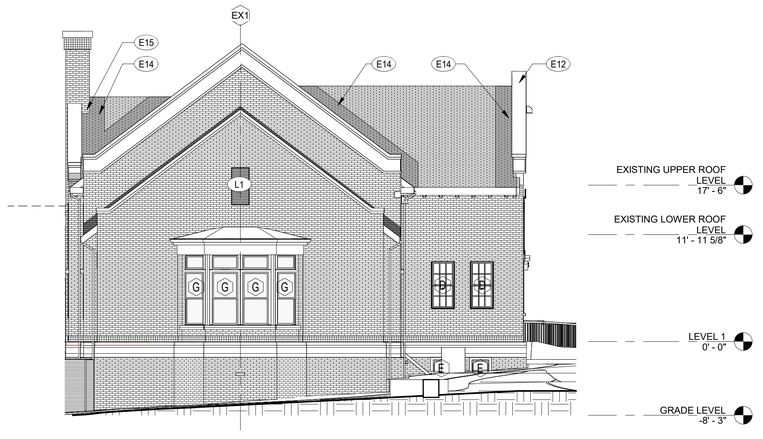


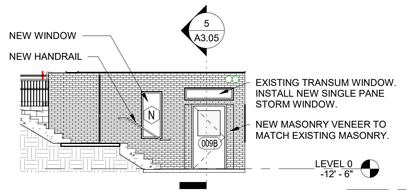
4 A3.00 ELEVATION - WEST
1/8" = 1'-0"



3 A3.00 ELEVATION - SOUTH
1/8" = 1'-0"



2 A3.00 ELEVATION - NORTH
1/8" = 1'-0"



5 A3.00 EXTERIOR EXIT CORRIDOR ELEVATION
1/8" = 1'-0"

1 A3.00 ELEVATION - EAST
1/8" = 1'-0"

SYMBOL LEGEND

EXISTING CONSTRUCTION

NEW CONSTRUCTION

ELEVATION NOTES

22	NEW FIRE DEPARTMENT CONNECTION.
24	SIGNAGE "NO SMOKING PERMITTED WITHIN 25' OF ENTRANCE" SIGN @ 48" AFF. SIGN PROVIDED BY OWNER.
E01	BRICK VENEER; MATCH EXISTING, MORTAR; MATCH EXISTING.
E06	WOOD TRIM; BROWN, TO MATCH EXISTING TRIM.
E09	BAY WINDOW TRIM AND GUTTER BOARD; WHITE, TO MATCH NEW WINDOWS.
E10	NEW DOWNSPOUT, BRACKETS, PIPE CONNECTIONS ETC.
E12	REINSTALL ALL LOOSE COPING STONES, MORTOR, SEALANT, ETC.
E13	NEW SLATE SHINGLES, UNDERLAYMENT, AND FLASHINGS ON ENTIRE WING.
E14	REINSTALL EXISTING SLATE SHINGLES AND AUGMENT WITH NEW SLATE SHINGLES AS REQUIRED FOR INSTALLATION OF NEW FLASHINGS.
E15	NEW COPPER FLASHING.
E17	NEW BAY COPPER ROOFING, FLASHING, UNDERLAYMENT, GUTTER AND DOWNSPOUT.
L1	L1 LOUVER
L2	L2 LOUVER
L3	L3 LOUVER

ADD ALTERNATE #1
REPOINT ALL EXISTING BRICK NOT SHOWN TO BE REPOINTED ON SHEETS AD1.10 AND AD1.11.

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EXTERIOR ELEVATION - EXISTING BUILDING

A3.00

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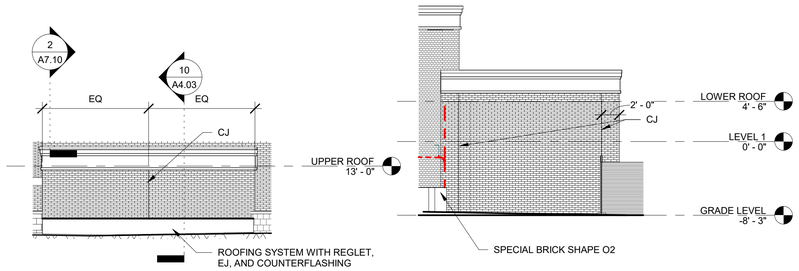
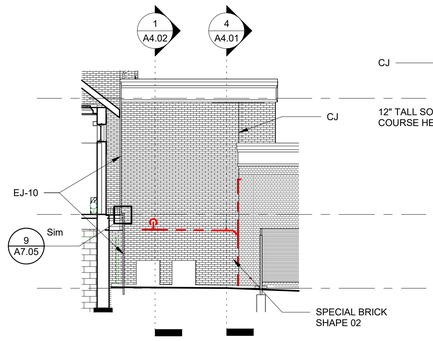


NE A3.01 NEW ADDITION - NORTHEAST
1/8" = 1'-0"

NW A3.01 NEW ADDITION - SOUTH
1/8" = 1'-0"



SE A3.01 NEW ADDITION - SOUTHEAST
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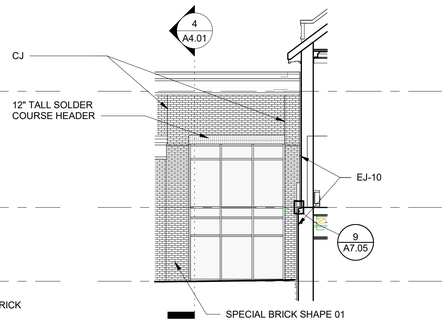

SW A3.01 NEW ADDITION - NORTHWEST ELEVATION
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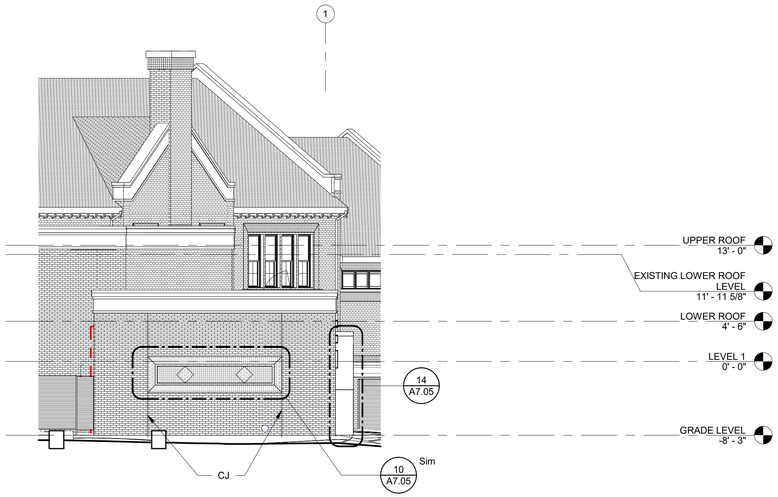

E A3.01 NEW ADDITION - EAST
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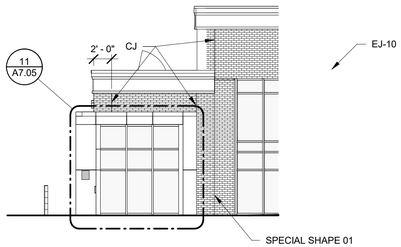

W A3.01 NEW ADDITION - WEST
1/8" = 1'-0"

N A3.01 NEW ADDITION - NORTH
1/8" = 1'-0"

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EXTERIOR ELEVATION - ADDITION

A3.01

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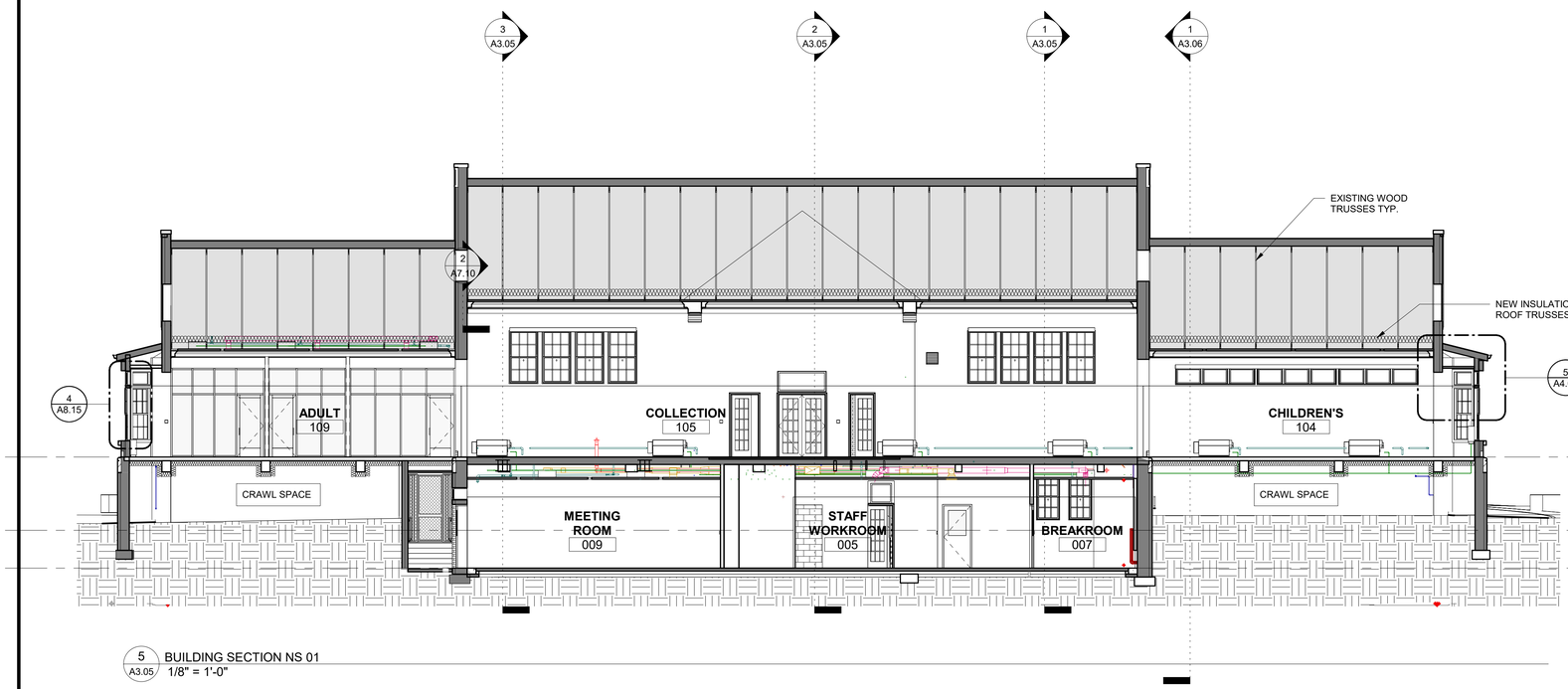
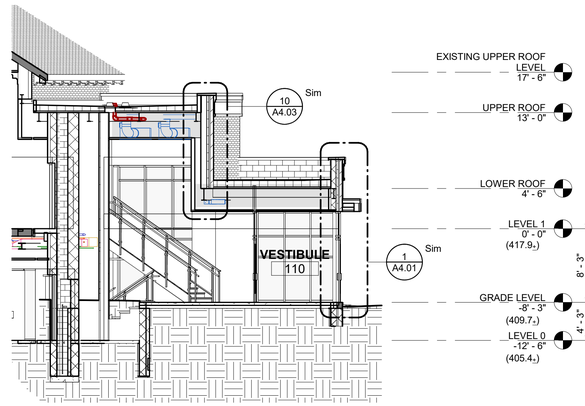
SYMBOL LEGEND

NEW CONSTRUCTION

EXISTING CONSTRUCTION



5 A3.05 BUILDING SECTION NS 01
1/8" = 1'-0"



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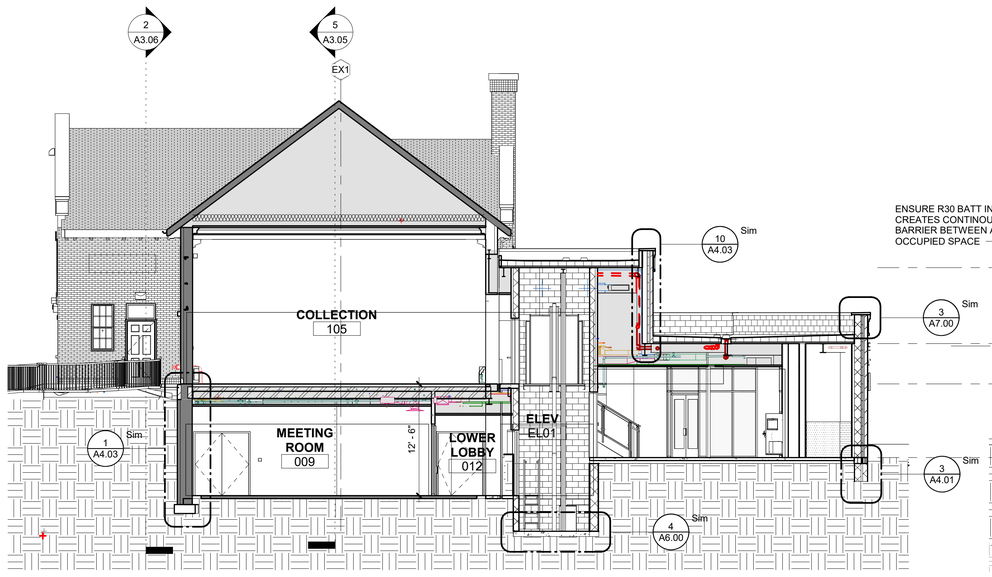

3 A3.05 BUILDING SECTION EW 02
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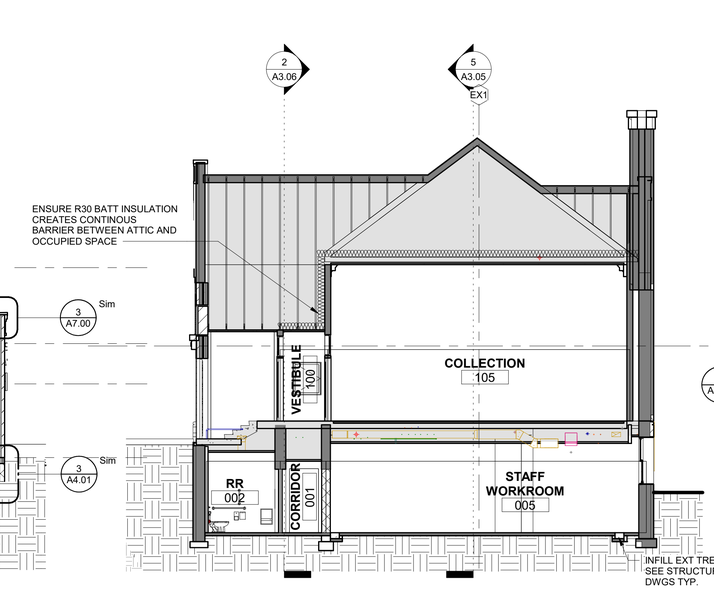

2 A3.05 BUILDING SECTION EW 03
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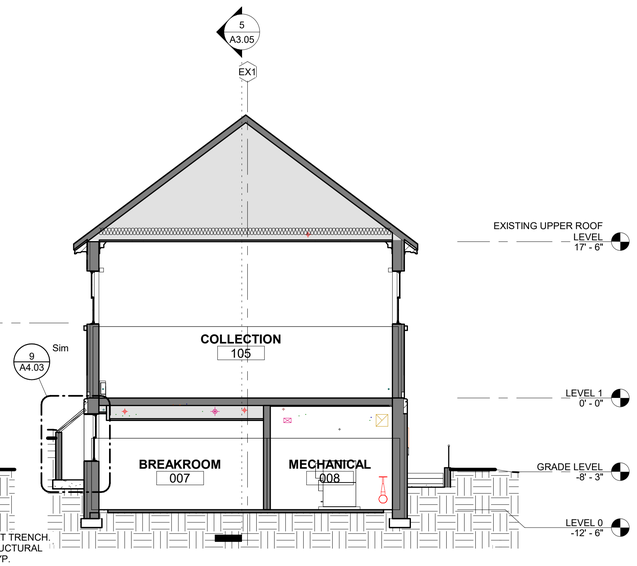

1 A3.05 BUILDING SECTION EW 01
1/8" = 1'-0"

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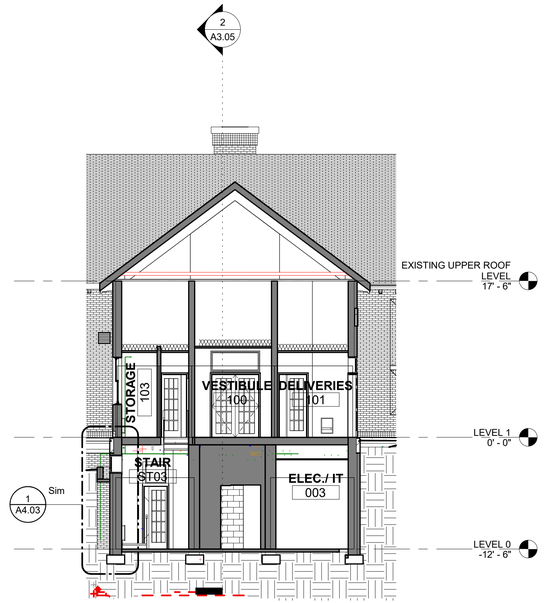
SYMBOL LEGEND

NEW CONSTRUCTION

EXISTING CONSTRUCTION



2 A3.06 BUILDING SECTION NS 02
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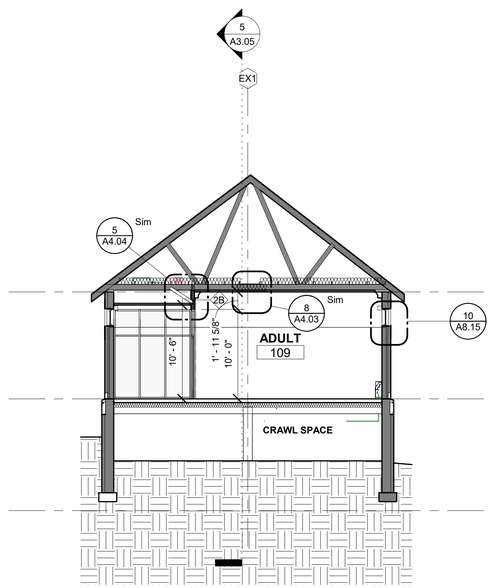

3 A3.06 BUILDING SECTION EW 05
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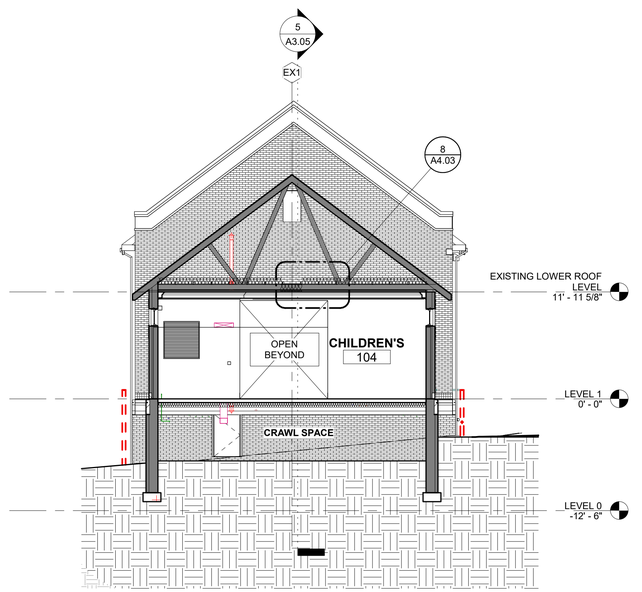

1 A3.06 BUILDING SECTION EW 04
1/8" = 1'-0"

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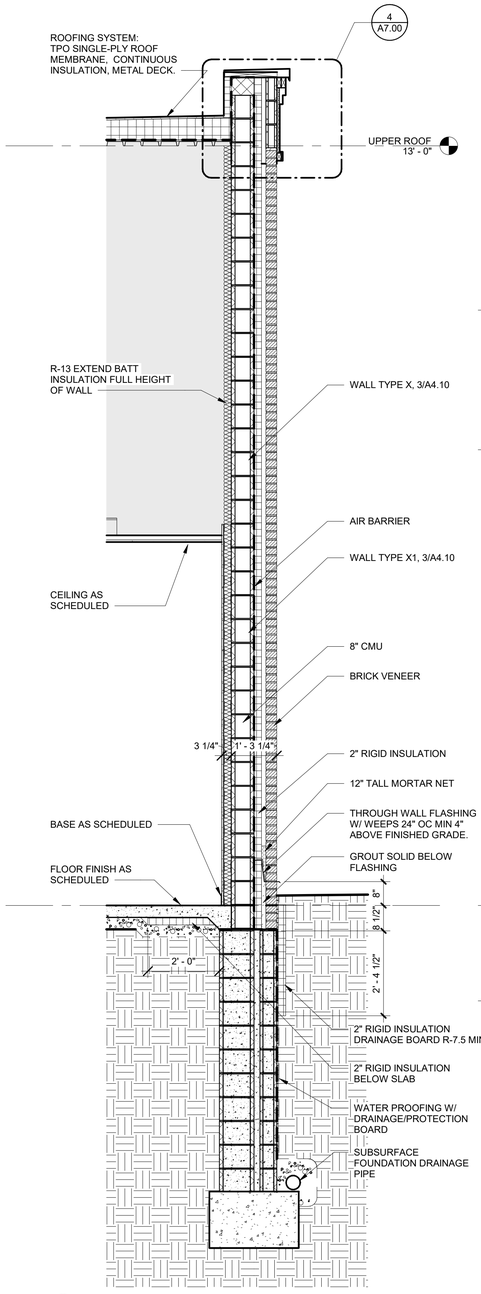
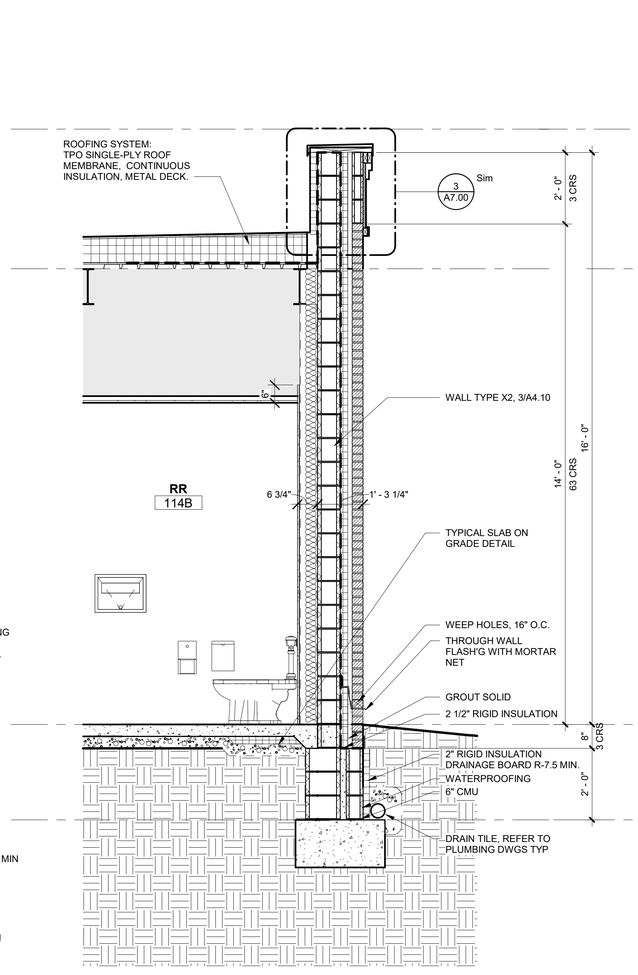


4 A4.01 SECTION - TYPICAL ADDITION EXTERIOR WALL
1/2" = 1'-0"



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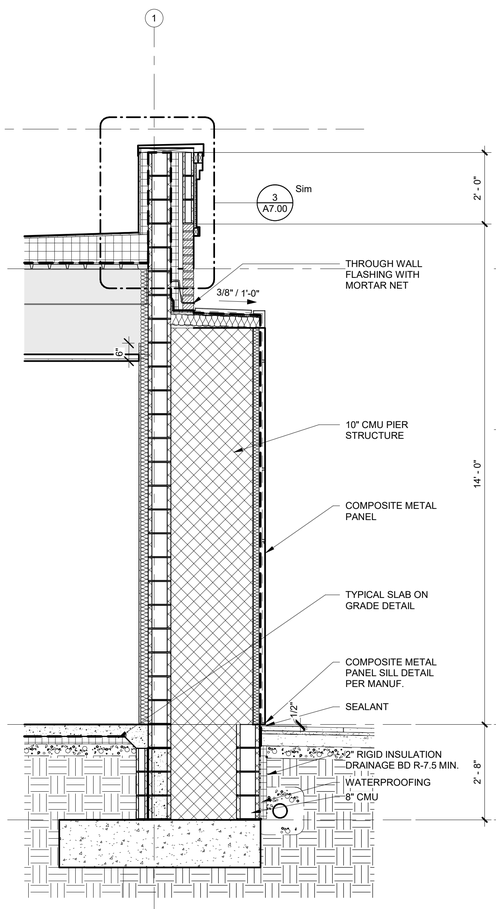
1/2" = 1'-0"



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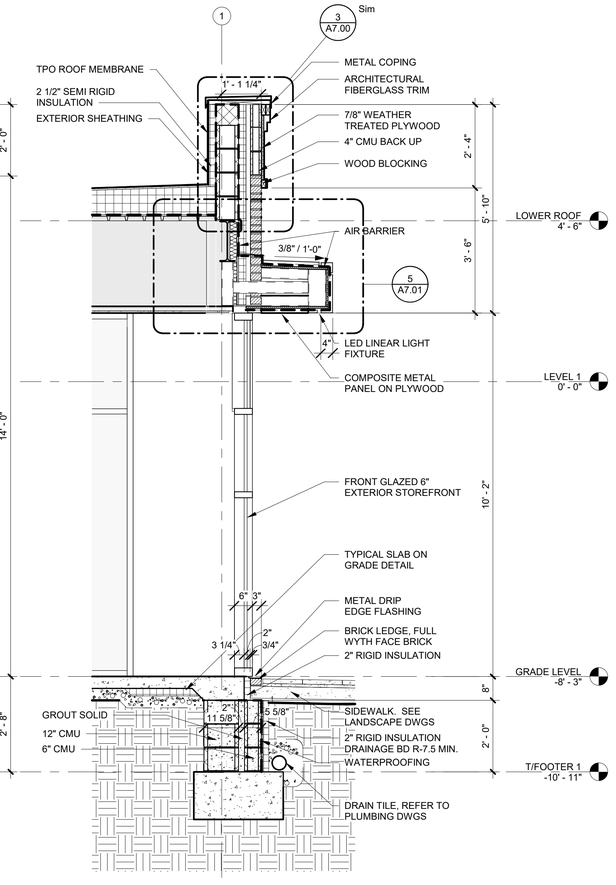
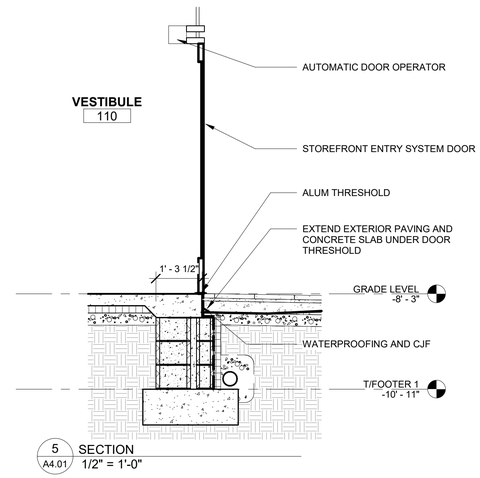


1 A4.01 SECTION
1/2" = 1'-0"



5 A4.01 SECTION
1/2" = 1'-0"

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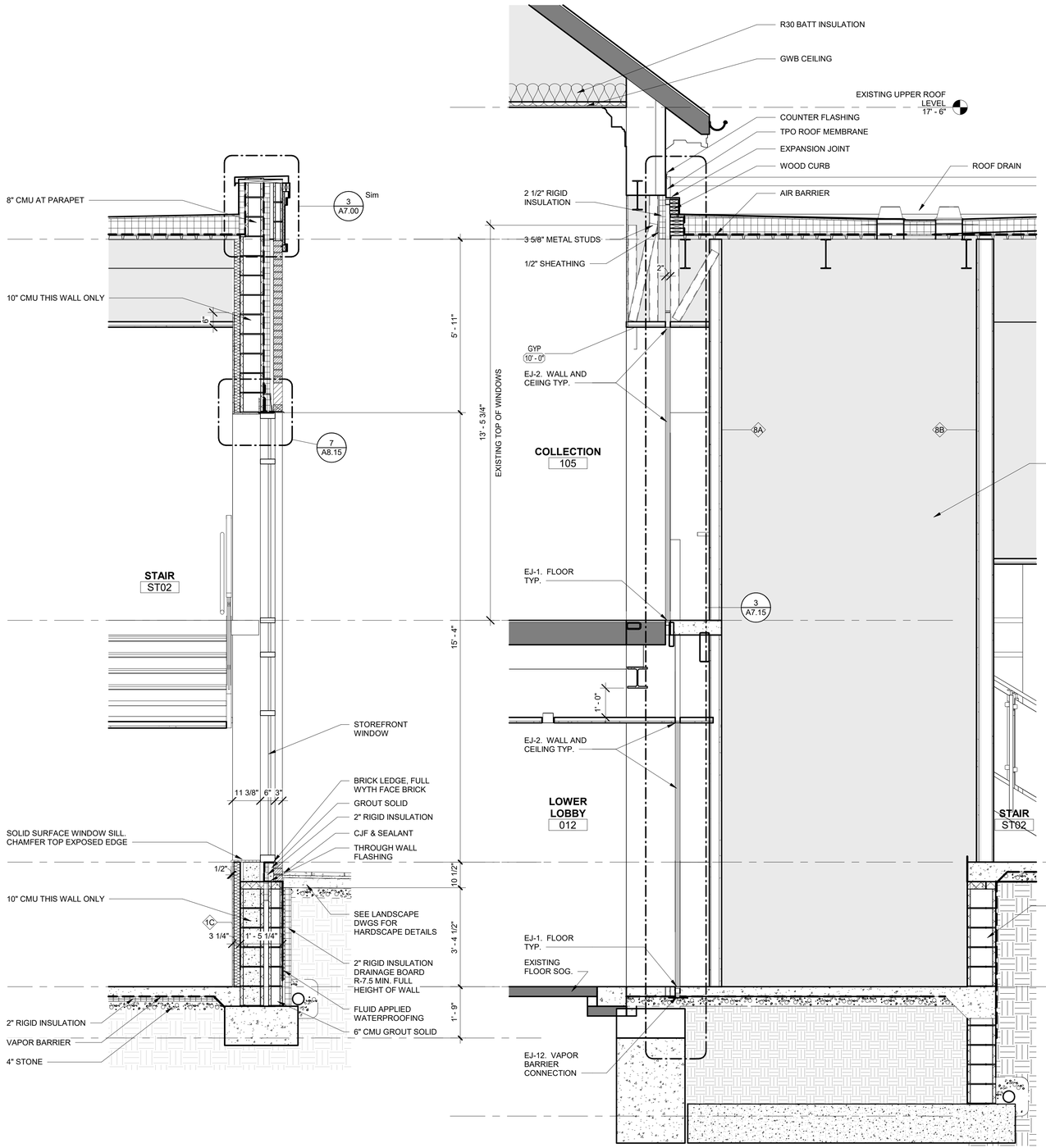

3 A4.02 SECTION 1/2" = 1'-0"

2 A4.02 SECTION 1/2" = 1'-0"

1 A4.02 SECTION 1/2" = 1'-0"

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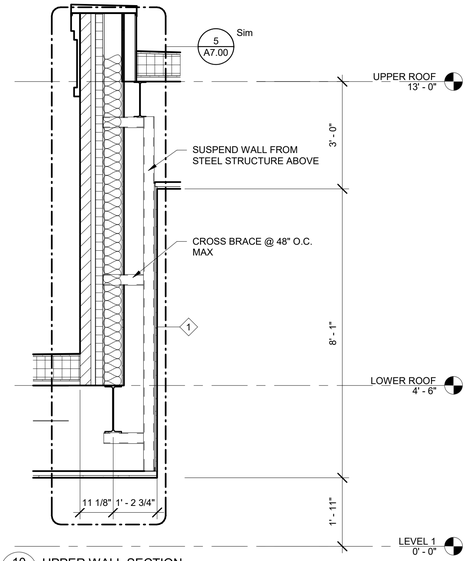
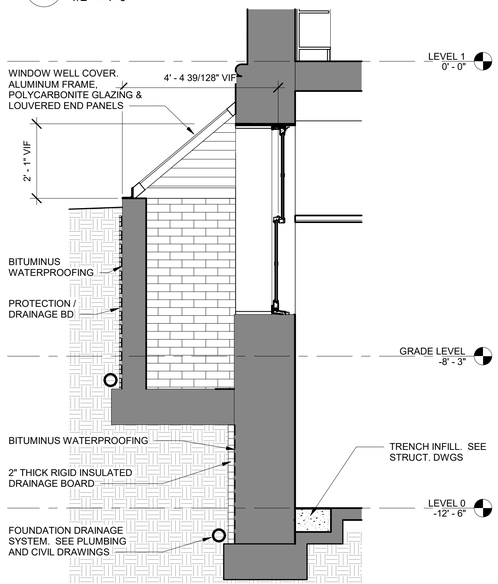
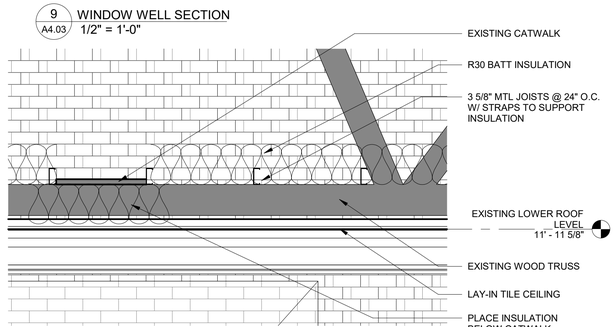


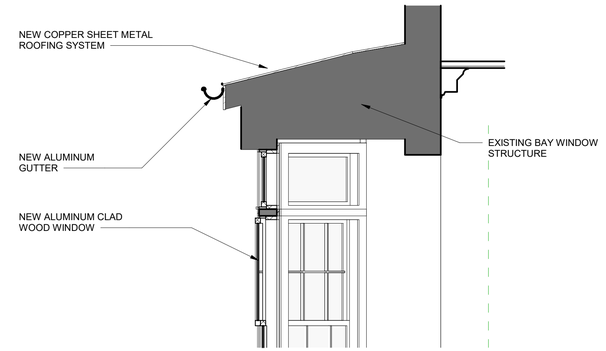
10 A4.03 UPPER WALL SECTION
1/2" = 1'-0"



9 A4.03 WINDOW WELL SECTION
1/2" = 1'-0"



8 A4.03 DETAIL - CEILING SECTION
3/4" = 1'-0"



5 A4.03 EXISTING BUILDING BAY WINDOW SECTION
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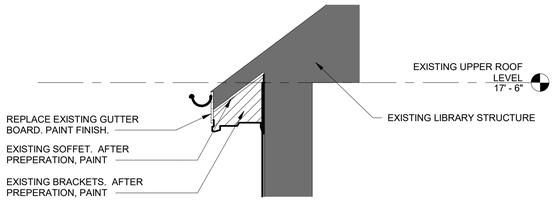

4 A4.03 EXISTING BUILDING EVE SECTION
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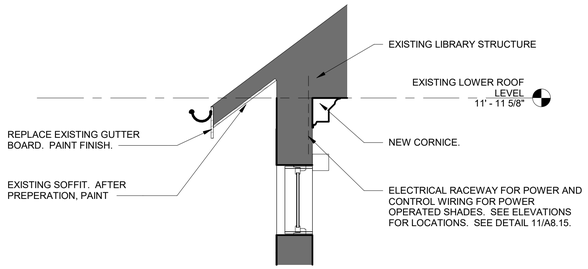

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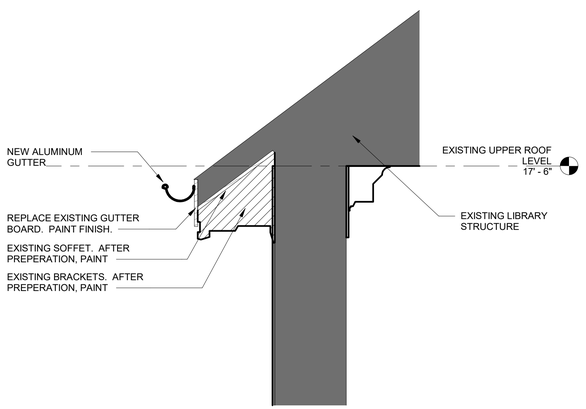

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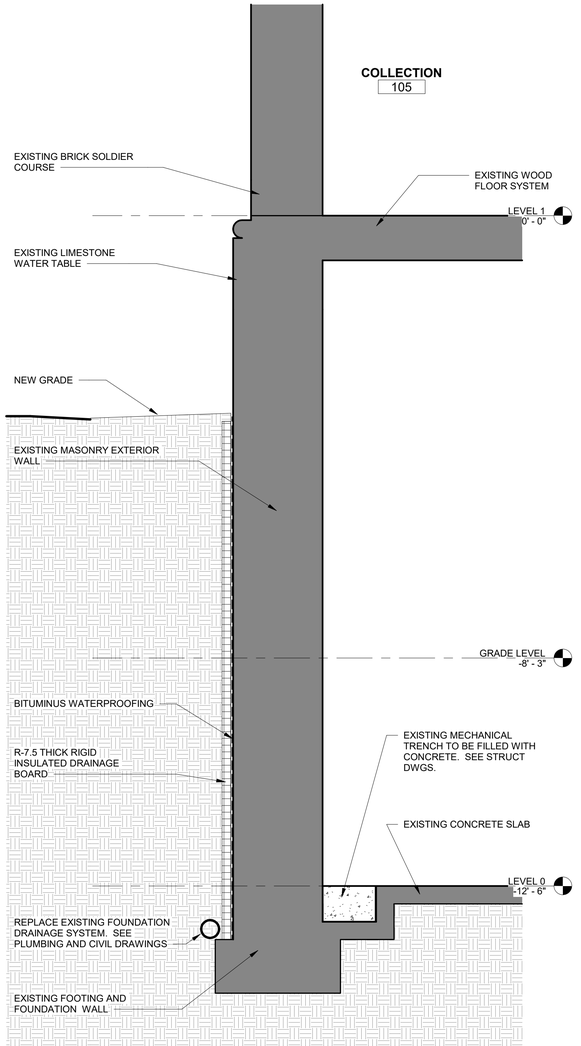

1 A4.03 TYPICAL EXISTING BUILDING WALL SECTION
3/4" = 1'-0"

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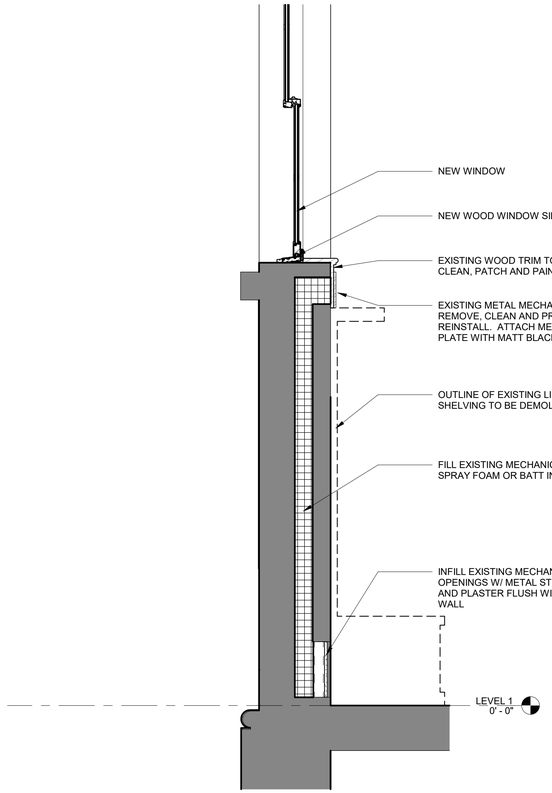

9 A4.04 TYPICAL MECHANICAL INFILL DETAIL
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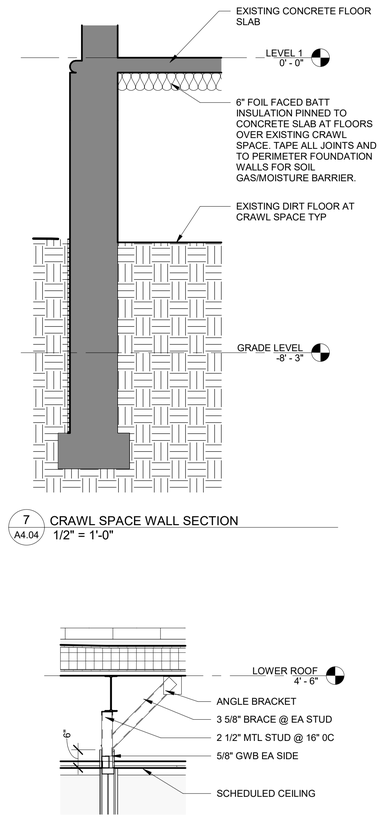
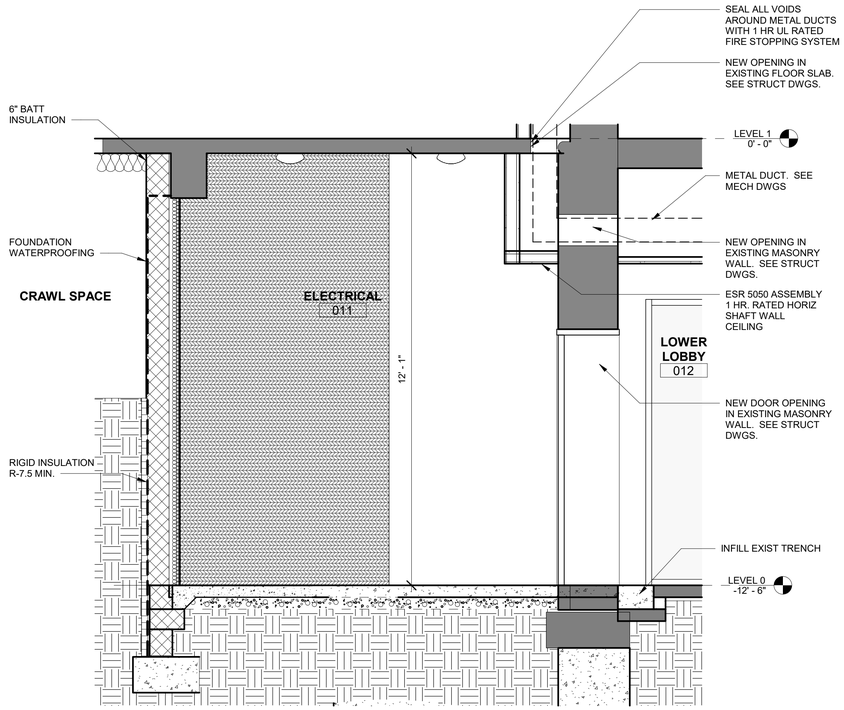


7 A4.04 CRAWL SPACE WALL SECTION
1/2" = 1'-0"

6 A4.04 INTERIOR WALL SECTION
1/2" = 1'-0"



2 A4.04 INTERIOR WALL SECTION
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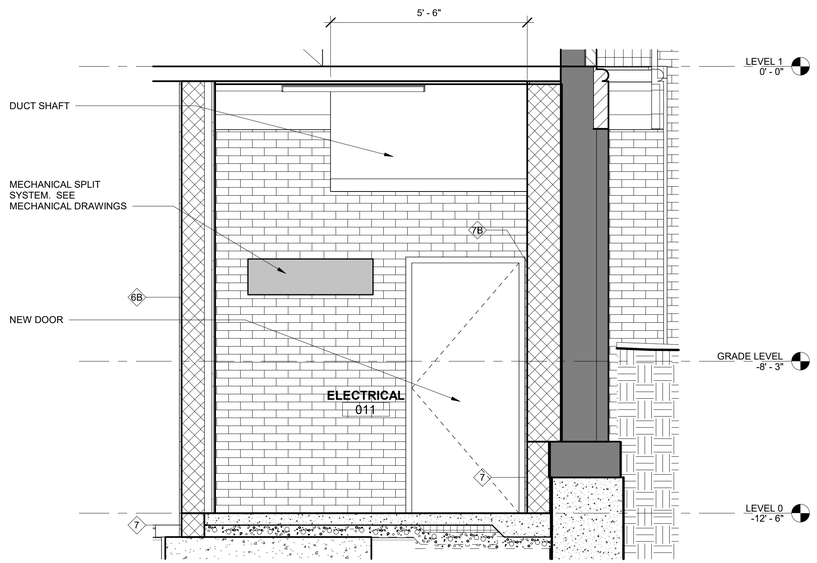

8 A4.04 ELECTRICAL ROOM SECTION
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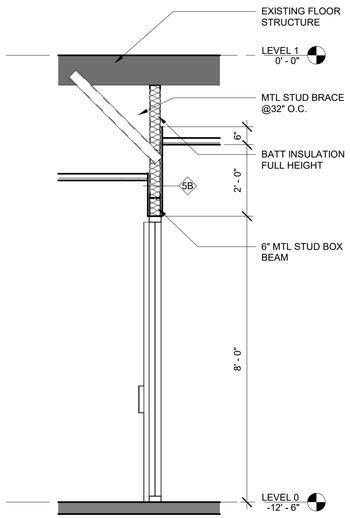

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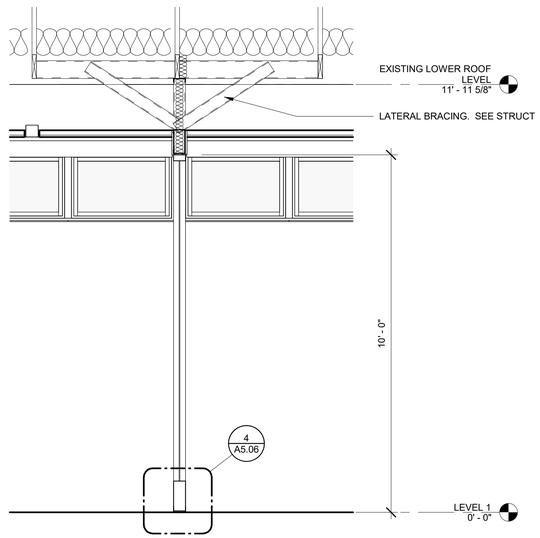

1 A4.04 INTERIOR WALL SECTION
1/2" = 1'-0"

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WALL SECTIONS

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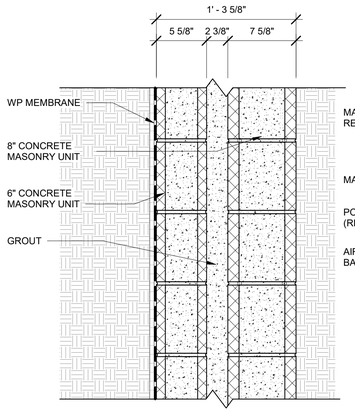
PARTITION TYPE GENERAL NOTES

1. ALL FIRE RATED AND SMOKE BARRIER PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.
2. INSTALL FIRE SEALANT AROUND THE ENTIRE PERIMETER TO PREVENT THE PASSAGE OF SMOKE IN ALL RATED AND SMOKE PARTITIONS.
3. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" TILE BACKER BOARD AT ALL WALL TILE LOCATIONS. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.
4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD ON ALL PLUMBING WALLS.
5. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".
6. INSTALL ALL GYPSUM BOARD ASSEMBLIES PER THE LATEST EDITION OF THE U.S. GYPSUM MANUAL.
7. INSTALL IMPACT RESISTANT GYPSUM WALLBOARD AT ALL LOCATIONS WITHIN 4'-0" OF WALKING SURFACES UNLESS FINISHED WITH CERMIC TILE.



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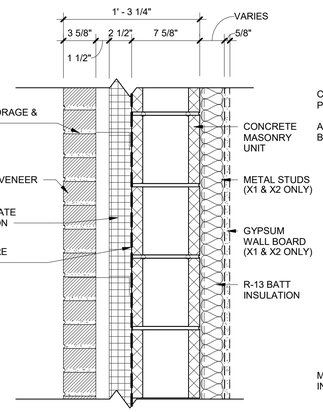
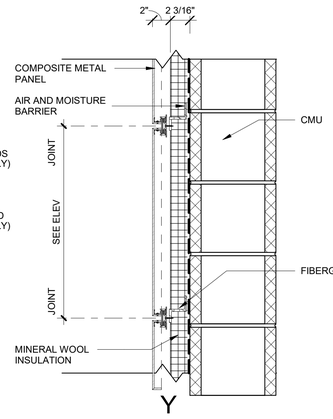


X

X1 SAME AS "X" W/ 2 1/2" METAL STUDS & 5/8" GWB

X2 SAME AS "X" W/ 6" METAL STUDS & 5/8" GWB @ PLUMBING WALLS



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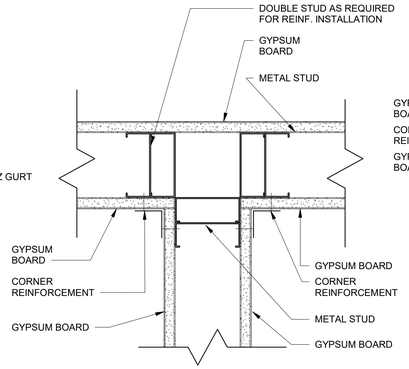
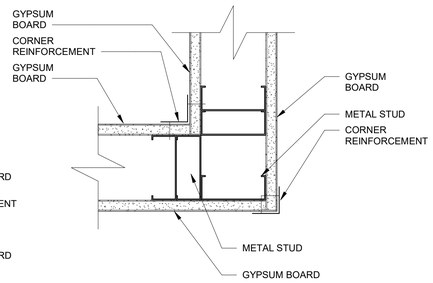


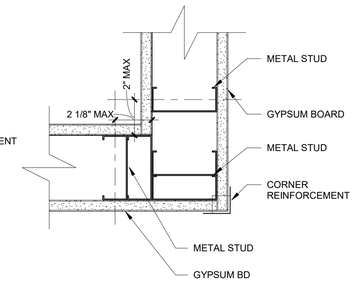
ABUTTING DETAIL

FIRE RATED PARTITION TO NON-RATED PARTITION



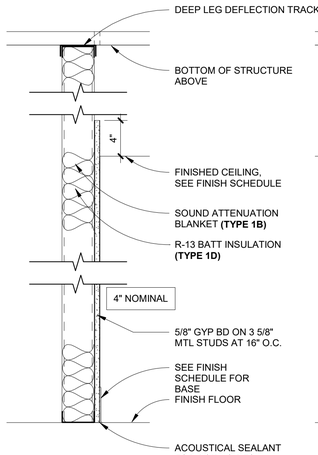
CORNER DETAIL

FIRE RATED PARTITION TO NON-RATED PARTITION



CORNER DETAIL

3 A4.10 SECTION DETAIL - TYP EXTERIOR WALL ASSEMBLIES
1 1/2" = 1'-0"



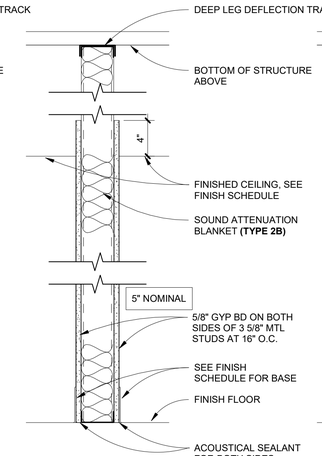
1

1A SAME AS TYPE 1, EXCEPT 6" METAL STUDS FOR A 6 5/8" TOTAL THICKNESS

1B SAME AS TYPE 1, EXCEPT 3 1/2" SOUND ATTENUATION BLANKET TO 4" ABOVE CEILING

1C SAME AS TYPE 1, EXCEPT 2 1/2" METAL STUDS FOR A 3 1/8" TOTAL THICKNESS

1D SAME AS TYPE 1, EXCEPT 2 1/2" METAL STUDS FOR A 3 1/8" TOTAL THICKNESS AND THERMAL BATT INSULATION

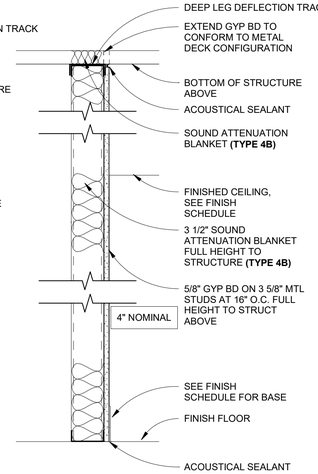


2

2A SAME AS TYPE 2, EXCEPT 6" METAL STUDS FOR A 7 1/4" TOTAL THICKNESS

2B SAME AS TYPE 2, EXCEPT 3 1/2" SOUND ATTENTUATION TO 4" ABOVE CEILING. STC 49 (UL U419) TEST NO J2247-11-303-11-R0

2C SAME AS TYPE 2, EXCEPT 2 1/2" METAL STUDS FOR A 3 3/4" TOTAL THICKNESS



4

4A SAME AS TYPE 4, EXCEPT 6" METAL STUDS FOR A 6 5/8" TOTAL THICKNESS

4B SAME AS TYPE 4, EXCEPT 3 1/2" SOUND ATTENUATION BLANKET FULL HEIGHT TO STRUCTURE

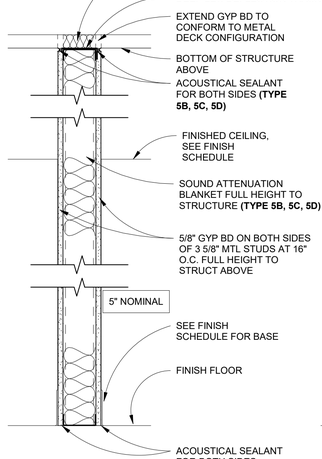
NOTE:

METAL STUD SIZE AND SPACING INDICATED ARE MINIMUM REQUIREMENTS. PROVIDE GAUGE, STUD SPACING, AND BRACING REQUIRED TO COMPLY WITH MANUFACTURER LIMITING HEIGHT TABLES.

MOISTURE RESISTANT GYPSUM BOARD TO BE USED IN ALL RESTROOMS AND JANITOR CLOSETS.

1 A4.10 PARTITION TYPES
1 1/2" = 1'-0"

2 A4.10 INTERIOR PARTITION DETAILS, TYPICAL
3" = 1'-0"



5

5A SAME AS TYPE 5, EXCEPT 6" METAL STUDS FOR A 7 1/4" TOTAL THICKNESS

5B SAME AS TYPE 5, EXCEPT 3" SOUND ATTENUATION BLANKET FULL HEIGHT TO STRUCTURE. STC 49 (UL U419) TEST NO J2247-11-303-11-R0

5C SAME AS TYPE 5, EXCEPT 6" METAL STUDS FOR A 7 1/4" TOTAL THICKNESS AND 3" SOUND ATTENUATION BLANKET FULL HEIGHT TO STRUCTURE. STC.54 (UL U419) TEST NO J2247.02-303-11-R0

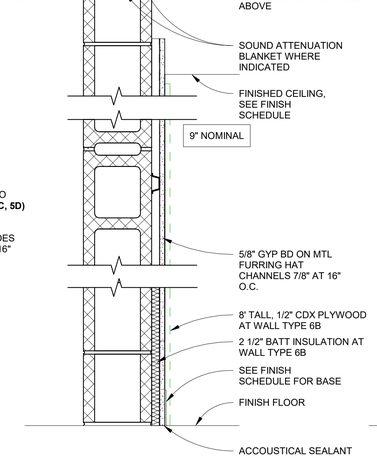
5D SAME AS TYPE 5, EXCEPT 8" METAL STUDS FOR A 9 1/4" TOTAL THICKNESS AND 3" SOUND ATTENUATION BLANKET FULL HEIGHT TO STRUCTURE. STC 54 (UL U419) TEST NO J2247.02-303-11-R0

5E **ALL 1HR FIRE BARRIERS**

SAME AS TYPE 5
COMPLY WTH UL: DESIGN NO. **U419**

ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO BE FIRESTOPPED IN ACCORDANCE SECTION 078446

AND 3" SOUND ATTENUATION BLANKET FULL HEIGHT TO STRUCTURE

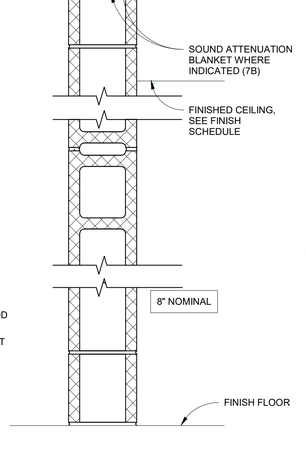


6

6A SAME AS TYPE 6, EXCEPT 2 1/2" METAL FURRING STUDS FOR AN 10 3/4" TOTAL THICKNESS

6B SAME AS TYPE 6, EXCEPT 2 1/2" METAL FURRING, 2 1/2" BATT INSULATION, STUDS FOR AN 11 1/2" TOTAL THICKNESS AND PLYWOOD EQUIPMENT MOUNTING SHEET

6C SAME AS TYPE 6, EXCEPT 12" CMU AND 2 1/2" METAL FURRING STUDS FOR AN 15 1/2" TOTAL THICKNESS



7 8" CMU, 1 HR FIRE RATED AT ELEVATOR SHAFT

UL - U 905

ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO BE FIRESTOPPED IN ACCORDANCE SECTION 078446, UL THROUGH-WALL PENETRATION FIRESTOP SYSTEM W-L-1001

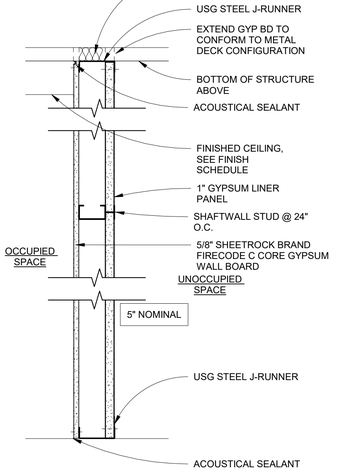
7A 12" CMU

7B 12" WITH SOUND BLANKET

7C 6" CMU, 1 HR FIRE RATED AT ELEVATOR SHAFT

UL - U 906

ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO BE FIRESTOPPED IN ACCORDANCE SECTION 078446, UL THROUGH-WALL PENETRATION FIRESTOP SYSTEM W-L-1001



8 1 HOUR ASSEMBLY

SHAFT WALL SYSTEM
NER-258 SYSTEM G

ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO BE FIRESTOPPED IN ACCORDANCE SECTION 078446, UL THROUGH-WALL PENETRATION FIRESTOP SYSTEM W-L-1001

8A SAME AS TYPE 8, EXCEPT 3 1/2" SOUND ATTENUATION BLANKET TO 4" ABOVE CEILING.

8B SAME AS TYPE 8, EXCEPT 6" STUD AND 4 1/2" SOUND ATTENUATION BLANKET TO 4" ABOVE CEILING.

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ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

3023 Garrison Blvd., Baltimore, MD 21216

AUGUST 29, 2025

BID SET

Revisions:

No.	Date	Description

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PARTITION TYPES & DETAILS

A4.10

SHEET 71 OF 179

22057

WINDOW SCHEDULE

Type Mark	Height	Width	Type Comments	Comments
A	5' - 11 1/2"	3' - 3 1/2"	default	<varies>
B	1' - 11 1/2"	8' - 11 1/2"	ALUM CLAD WOOD AWNING	<varies>
C	5' - 10"	2' - 2 1/2"	ALUM CLAD WOOD FIXED	
D	5' - 3 1/2"	2' - 7 1/2"	default	
E	2' - 0"	2' - 0"		
F	5' - 3 1/2"	3' - 7 1/2"	default	
G	6' - 0"	3' - 0"	ALUM CLAD WOOD DH	<varies>
H	1' - 8"	3' - 0"	ALUM CLAD FIXED	<varies>
J	1' - 10"	3' - 4"	ALUM CLAD WOOD FIXED TRANSUM	
K	6' - 3 1/2"	3' - 7 1/2"	default	<varies>
Z	2' - 4"	2' - 6"		

ALUMINUM CLAD WOOD WINDOW GENERAL NOTES:

REFER TO THE PROJECT MANUAL FOR COMPLETE SPECIFICATIONS.

A. WINDOW SIZES INDICATED ARE APPROXIMATIONS. ALL MASONRY OPENINGS AND ROUGH OPENINGS ARE TO BE FIELD VERIFIED.
B. DESIGN INTENT IS TO MATCH EXISTING WINDOW CONFIGURATION. EXTERIOR TRIM, INTERIOR TRIM, BRICK MOLD, ETC. TO MATCH EXISTING UNLESS NOTED OTHERWISE.
C. INSTALL WOOD BLOCKING AS REQUIRED TO REPLACE EXISTING UNSUTABLE MATERIALS WITH FRT/MOISTURE TREATED WOOD BLOCKING.

GLAZING SCHEDULE

TYPE	DESCRIPTION
GL-1	3/8" LAMNATED GLAZING
GL-2	1" IG 1/4"-1/2"-1/4" GLAZING, HEAT STRENGTHENED, LOW E
GL-3	3/8" LAMNATED GLAZING W/ CERAMIC FRIT

LOUVER SCHEDULE

Type Mark	Width	Height	Comments
	<varies>	<varies>	
L1	2' - 0"	4' - 2"	2" BLADE SPACING
L2	1' - 4"	1' - 4"	2" BLADE SPACING
L3	3' - 0"	5' - 4"	2" BLADE SPACING

LOUVER GENERAL NOTES:

REFER TO THE PROJECT MANUAL FOR COMPLETE SPECIFICATIONS.

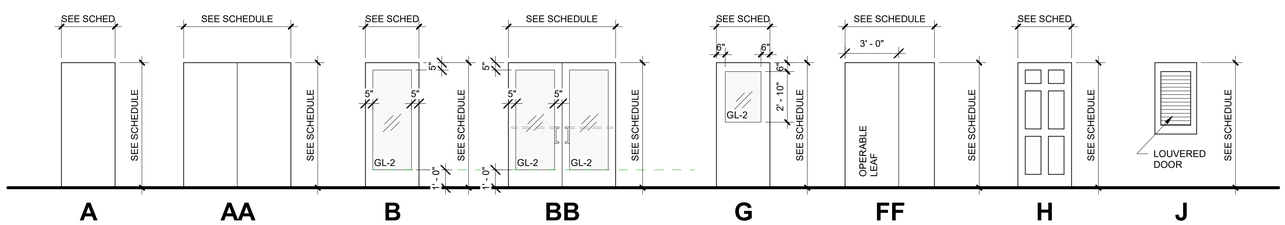
A. LOUVER SIZES INDICATED ARE APPROXIMATIONS. ALL MASONRY OPENINGS AND ROUGH OPENINGS ARE TO BE FIELD VERIFIED.
B. DESIGN INTENT IS TO MATCH EXISTING LOUVER CONFIGURATIONS. EXTERIOR TRIM, BRICK MOLD, ETC. TO MATCH EXISTING UNLESS NOTED OTHERWISE.
C. INSTALL WOOD BLOCKING AS REQUIRED TO REPLACE EXISTING UNSUTABLE MATERIALS WITH FRT/MOISTURE TREATED WOOD BLOCKING.

DOOR AND FRAME SCHEDULE

DOOR #	DOOR TYPE	DOOR FIRE RATING	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	DOOR PANEL MATERIAL	FRAME MATERIAL	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE SET	REMARKS
002	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	5/A5.06	11.0	
003	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	9/A5.06	9.0	J
005	FF		5' - 0"	7' - 0"	0' - 1 3/4"	WOOD	HM	3/A5.06	2/A5.06	1/A5.06	7.0	B, K
006	G		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/SG	HM	3/A5.06	2/A5.06	1/A5.06	10.0	
007A	G		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/SG	HM	3/A5.06	2/A5.06	13/A5.06	12.0	
007B	A		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	HM	3/A5.06	2/A5.06	9/A5.06	17.0	P
008	FF		5' - 0"	7' - 0"	0' - 1 3/4"	WOOD	HM	19/A5.06	18/A5.06	9/A5.06	8.0	K
009A	AA		6' - 0"	7' - 10"	0' - 1 3/4"	WOOD	AL	11/A5.06	14/A5.06	9/A5.06	3.0	C
009B	G		3' - 6"	7' - 0"	0' - 1 3/4"	HM/SG	HM	19/A5.06	18/A5.06	17	2.0	D, E, F, H
010	AA		6' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	1/A5.06	8.0	
011	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	19/A5.06	18/A5.06	9/A5.06	6.0	
016	J		2' - 4"	4' - 0"	0' - 1 3/4"	HM/SG	HM	19/A5.06*	18/A5.06*	18/A5.06*	011	M
101			3' - 0"	7' - 0"	0' - 1 3/4"			MATCH EXT	MATCH EXT	MATCH EXT	16.0	H
106	B		3' - 0"	7' - 0"	0' - 1 3/4"	AL/SG	AL				4.0	
107	B		3' - 0"	7' - 0"	0' - 1 3/4"	AL/SG	AL				4.0	
108	B		3' - 0"	7' - 0"	0' - 1 3/4"	AL/SG	HM.				4.0	
110	BB		6' - 0"	7' - 0"	0' - 1 3/4"	AL/SG	AL	16/A5.06	12/A5.06	17/A5.06	1.0	A,E
111	BB		6' - 0"	7' - 0 1/8"	0' - 1 3/4"	AL/SG	AL				5.0	A,E
112A	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	1/A5.06	11.0	N
112B	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	1/A5.06	11.0	N
112C	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06	1/A5.06	11.0	N
113	A		3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	HM	3/A5.06	2/A5.06		17.0	N

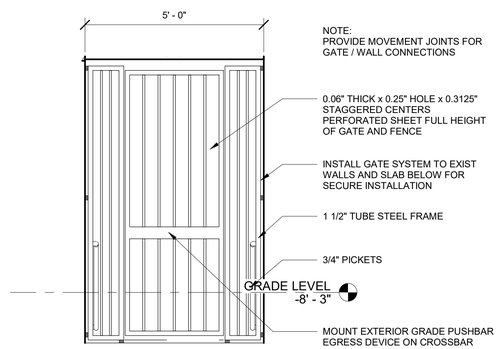
DOOR AND FRAME SCHEDULE - EXISTING DOORS

DOOR #	DOOR TYPE	DOOR FIRE RATING	DOOR PANEL MATERIAL	FRAME MATERIAL	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE SET	REMARKS
X001	ETR		ETR	ETR	ETR	ETR	ETR	14.0	J, L
X100					ETR	ETR	ETR	15.0	J, L
X101B					ETR	ETR	ETR	15.0	J L
X102					ETR	ETR	ETR	15.0	J, L
X103					ETR	ETR	ETR	15.0	J, L
X105					ETR	ETR	ETR	15.0	J, L
XST01					ETR	ETR	ETR	15.0	J, L
XST03					ETR	ETR	ETR	15.0	ALL EXTERIOR DOORS SHALL HAVE LOW PROFILE ALUMINUM THRESHOLDS MEETING THE REQUIREMENTS OF ADA.



NOTE: ALL GLAZING TO BE SAFETY GLASS UNLESS OTHERWISE NOTED OR SCHEDULED

2 / A5.00 DOOR TYPES
1/4" = 1'-0"



1 / A5.00 METAL EGRESS GATE
1/2" = 1'-0"

DOOR AND DOOR FRAME GENERAL NOTES

1 ALL EXTERIOR DOORS SHALL HAVE LOW PROFILE ALUMINUM THRESHOLDS MEETING THE REQUIREMENTS OF ADA.
2 ALL EXTERIOR STEEL DOORS SHALL BE GALVANIZED.
3 ALL EXTERIOR STEEL DOOR FRAMES SHALL BE GALVANIZED.
4 ALL EXTERIOR DOORS SHALL HAVE A DRIP CAP AND TOP CAP AT HEAD OF DOOR.
5 ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPED WITH BOTTOM SWEEPS.
6 ALL EXTERIOR STEEL DOORS SHALL BE INSULATED GLASS.
7 VERIFY ACTUAL THROAT DEPTH OF ALL DOOR FRAMES WITH WALL/PARTITION.
8 ALL GLASS IN DOORS AND SIDE LITES SHALL BE SAFETY GLASS. PROVIDE FIRE RATED GLASS WHERE INDICATED ON DOOR AND FRAME SCHEDULE OR AS NOTED ON DRAWINGS.
9 ALL EXTERIOR DOOR FRAMES SHALL BE SEALED & CAULKED AROUND PERIMETER, HEAD, SILL AND JAMBS.
10 PROVIDE PAD LOCKS KEYED INTO MASTER KEY SYSTEM AT ROOF HATCHES.

DOOR HARDWARE GENERAL NOTES

1 CONTRACTOR SHALL REVIEW KEYING OF ALL DOORS WITH OWNER PRIOR TO FABRICATION OF CORES. KEY INTO OWNERS EXISTING MASTER KEY SYSTEM.
2 ALL DOOR SHALL MEET ALL ADA GUIDELINES
3 ALL DOORS EQUIPPED WITH LOCKS SHALL ALLOW EGRESS FROM WITHIN THE ROOM WITHOUT THE USE OF KEYS, SPECIAL TOOLS OR KNOWLEDGE.

DOOR FRAME AND HARDWARE ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
INSUL	INSULATED
LAM	LAMINATED
MIN	MINUTE
MTL	METAL
SG	SAFETY GLASS
WD	WOOD
ETR	EXISTING TO REMAIN

REMARKS

A. AUTOMATIC DOOR OPENER
B. ACCESS CONTROL
C. NOT USED
D. ALARMED EXIT DEVICE
E. INSULATED GLASS
F. SURFACE MOUNTED WINDOW SHADE IN DOOR LITE
G. SEE MANUFACTURER SPECS AND SIZES
H. EXTERIOR INSULATED DOOR
J. REFINISH EXISTING DOOR, FRAME, TRANSOM PANEL, ETC. TO MATCH EXISTING. REPLACE WEATHER SEALS ON EXTERIOR DOORS.
K. SEE DETAIL 1/A5.00 FOR EGRESS GATE INFORMATION.
L. REMOVE, CLEAN, AND REINSTALL EXISTING HARDWARE. REPLACE ANY NON-OPERATIONAL, NON MATCHING HARDWARE, OR AS SPECIFIED TO BE NEW.
M. MASONRY WALL. NO INTERIOR FRAMING AND GWB
N. UNDERCUT DOOR 1"
P. DOOR TO HAVE ACOUSTIC DOOR SEAL AND AUTOMATIC DOOR BOTTOM.

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Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Architect under the laws of the State of Maryland. License number 15225, Expiration Date: 11/30/2025

ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

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AUGUST 29, 2025

BID SET

Revisions:

No.	Date	Description
1	2/7/2025	PERMIT REVISIONS

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DOOR & WINDOW SCHEDULE

A5.00

SHEET 72 OF 179

22057

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PARTIAL DOOR HARDWARE SPECIFICATION

1.2 PERFORMANCE REQUIREMENTS
- A. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- C. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design and ICC A117.1.

1.3 BUTT HINGES
- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
  1. Quantity: Provide the following hinge quantity:
     a. Two Hinges: For doors with heights up to 60 inches.
     b. Three Hinges: For doors with heights 61 to 90 inches.
     c. Four Hinges: For doors with heights 91 to 120 inches.
  2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
     a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
     b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
     a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
     b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
  4. Hinge Options: Comply with the following:
     a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

1.4 CONTINUOUS HINGES
- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge, with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1.5 POWER TRANSFER DEVICES
- A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets with a 1-year warranty. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1.6 DOOR OPERATING TRIM
- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
  1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
  2. Furnish dust proof strikes for bottom bolts.
  3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
  4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
- B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
  1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
  2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
  3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
  4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
  5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

1.8 MORTISE LOCKS AND LATCHING DEVICES
- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
  1. Electromechanical locksets shall have the following functions and features:
     a. Universal Molex plug-in connectors that have standardized color-coded wiring and are available in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
     b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
     c. Motorized electric latch retraction where the latchbolt retracts in 0.5 seconds of power being applied; removing power allows the latch to project back to the extended position.
     d. Options to be available for request-to-exit or enter signaling, latchbolt

1.9 DEADLOCKS AND LATCHES
- A. Narrow Case Deadlocks and Deadlatches: ANSI/BHMA 156.13 Series 1000 Grade 1 narrow case deadlocks and deadlatches for swinging or sliding door applications. All functions shall be manufactured in a single sized case formed from 12 gauge minimum, corrosion resistant steel (option for fully stainless steel case and components). Provide minimum 2 7/8" throw laminated stainless steel bolt. Bottom rail deadlocks to have 3/8" diameter bolts.

1.11 CONVENTIONAL EXIT DEVICES
- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
  1. Exit devices shall have a five-year warranty.
  2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
  3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
  4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
  5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
  6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
     a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
     b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
  7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
  8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
  9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
  10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
  11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1.12 DOOR CLOSERS
- A. All door closers specified herein shall meet or exceed the following criteria:
  1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
  2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
  3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
  4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
  5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
  6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
  1. Heavy duty surface mounted door closers shall have a 30-year warranty.

1.13 ELECTROHYDRAULIC DOOR OPERATORS
- A. Electrohydraulic Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that meet ANSI/BHMA A156.4 requirements and are UL listed for use on fire rated doors and UL10C certified that comply with requirements for the Americans with Disabilities Act (ADA). Operators shall be verified by GreenCircle to offer energy savings of 19% when compared to similar products to accommodate openings up 250 pounds and 48" wide.
  1. Provide operators with features as follows:
     a. Non-handed with push and pull side mounting.
     b. Operates as mechanical surface closer during close cycles, when door is opened manually or if power is off.
     c. Activation by push button, hands-free or radio frequency devices.
     d. On board electronics to collect usage and cycle count data to facilitate preventative maintenance/diagnostics.
     e. Two-year limited warranty.
     f. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
        1) Simple setup with no app required.
        2) View status and make adjustments without removing the cover.
        3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
     g. Mounting backplate to simplify and speed up installation.
  2. Operators shall have the following functionality:
     a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
     b. Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.
     c. Infinite Hold Open: Door will hold open at set position until power is turned off.
     d. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.
     e. Open Delay: Delays operator opening for locking hardware.
     f. Overload Safety Shut-Off: After two minutes of receiving a door activation signal, inverter times out and door closes to prevent motor/inverter damage.
     g. Presence Detector Input: Input for external sensor to detect presence at door open or close position only.
     h. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
     i. Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.
     j. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.

1.16 ARCHITECTURAL SEALS
- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
  1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
  1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

1.17 ELECTRONIC ACCESSORIES
- A. Touchless Switches: FCC certified microwave sensing switch used for REX or activation of various access control devices in place of a traditional wired switch. Unit to have an adjustable sensing zone from 4" to 24". At exterior locations furnish foam gaskets and weather covers. Provide single gang or double gang unit as specified in the hardware sets.
- B. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnet housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
- C. Intelligent Switching Power Supplies: Provide power supplies with single, dual or multi-voltage configurations at 12 and/or 24VDC. Power Supply shall have battery backup function with an integrated battery charging circuit. The power supply shall have a standard, integrated Fire Alarm Interface (FAI). The power supply shall provide capability for secondary voltage, power distribution, direct lock control and network monitoring through add on modules. The power supply shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs. Network modules shall provide remote monitoring functions such as status reporting, fault reporting and information logging.

2.7 DOOR HARDWARE SETS
- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
  1. Quantities listed are for each pair of doors, or for each single door.
  2. The supplier is responsible for handing and sizing all products.
  3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
  4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
  1. MK - McKinney
  2. PE - Pemko
  3. RO - Rockwood
  4. SA - SARGENT
  5. AD - Adams Rite
  6. OT - Other
  7. NO - Norton
  8. SU - Securitron

Hardware Sets

Set: 1.0

Doors: 110

2 Continuous Hinge	DFM__SLF-HD1 - DOOR HEIGHT		PE
1 Flush Bolt (Manual)	555/557 (TO SUIT)	US32B	RO
1 Mortise Deadlock	MS1850S	628	AD
1 Thumbturn	4066	130	AD
1 Cylinder	Match/Expand Facility Existing		OT
2 Push Pull	RM251 Mfg-Type 1XHD	US32B	RO
1 Surface Closer	351 CPS	626	SA
1 Automatic Opener	6011/6021 (TO SUIT)	689	NO
1 Door Stop	403/441CU (TO SUIT)	US32B	RO
1 Rain Guard	346D		PE
2 Sweep (w/ drip edge)	345ZDNB		PE
1 Threshold	252x3DFG MSES25SS		PE
2 Wave Wall Switch	700		NO

Notes:
• Perimeter/meeting stile seals by frame/door supplier.
• Door to remain unlocked during occupancy.
• Electronic operation: Outside, automatic operator by wave to open switch. Inside, Free egress at all times by push plate/door pull or automatic operator by wave to open switch.

Set: 2.0

Doors: 009B

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Rim Exit Device, Storeroom	LC 16 8804 S62	US10BE	SA
2 Cylinder	Match/Expand Facility Existing		OT
1 Pull	RM201 Mfg-Type 1XHD	10BE	RO
1 Surface Closer	351 CPS	EB	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Rain Guard	346D		PE
1 Gasketing (Head/Jambs)	S773D		PE
1 Sweep (w/ drip edge)	345ZDNB		PE
1 Threshold	252x3DFG MSES25SS		PE
1 Position Switch	DPS-M/W-BK (TO SUIT)		SU

Set: 3.0

Doors: 009A

2 Continuous Hinge	DFM__SLF-HD1 - DOOR HEIGHT		PE
1 Removable Mullion	L980A - DOOR HEIGHT	US28	SA
2 Rim Exit Device, Classroom	LC AD8513 ETH016	US10BE	SA
3 Cylinder	Match/Expand Facility Existing		OT
2 Surface Closer	351 CPS	EB	SA

Notes:
• Perimeter/meeting stile seals by frame/door supplier.

Set: 4.0

Doors: 106, 107, 108

1 Continuous Hinge	DFM__SLF-HD1 - DOOR HEIGHT		PE
1 Passage Latch	8215 TRH016	US10BE	SA
1 Door Stop	403/441CU (TO SUIT)	10BE	RO

Notes:
• Perimeter/meeting stile seals by frame/door supplier.

Set: 5.0

Doors: 111

2 Continuous Hinge	DFM__SLF-HD1 - DOOR HEIGHT		PE
2 Push Pull	RM251 Mfg-Type 1XHD	US32B	RO
2 Automatic Opener	6011/6021 (TO SUIT)	689	NO
2 Wave Wall Switch	700		NO
1 Wiring Diagram	Elevation and Point to Point as Specified		OT

Notes:
• Perimeter/meeting stile seals by frame/door supplier.
• Electronic operation: Outside, automatic operator by wall switch. Inside, Free egress at all times by push bar or automatic operator by wall switch.

Set: 6.0

Doors: 011

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Rim Exit Device, Storeroom	LC 8804 ETH016	US10BE	SA
1 Cylinder	Match/Expand Facility Existing		OT
1 Surface Closer	351 O/P9 (TO SUIT)	EB	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Door Stop	403/441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO

Set: 7.0

Doors: 005

5 Hinge, Full Mortise, Hvy Wt	T4A3786	US10BE	MK
1 Hinge, Full Mortise, Hvy Wt	T4A3786.QC12	US10BE	MK
1 Dust Proof Strike	570	10BE	RO
1 Flush Bolt (Automatic, set)	2842/2962 (TO SUIT)	10BE	RO
1 Fail Secure Lock	LC RX 8271-24V TRH016	US10BE	SA
1 Cylinder	Match/Expand Facility Existing		OT
1 Coordinator	2600 Series x Wear Plates	Black	RO
2 Surface Closer	351 CPS	EB	SA
2 Kick Plate	K1050 10" CSK	10BE	RO
2 Silencer	608/609 (TO SUIT)		RO
1 Frame Harness	QC-C1500P		MK
1 Door Harness	QC-CXXX- LENGTH TO SUIT		MK
1 Card Reader	Provided By Security Supplier		OT
1 Position Switch	DPS-M/W-BK (TO SUIT)		SU
1 Power Supply	AQLxx-RSE1 (TO SUIT)		SU
1 Wiring Diagram	Elevation and Point to Point as Specified		OT

Notes:
•Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Request to exit shows authorized egress. Free egress at all times. In case of power loss, door remains locked and latched.

Set: 8.0

Doors: 008, 010

2 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Dust Proof Strike	570	10BE	RO
2 Flush Bolt (Manual)	555/557 (TO SUIT)	10BE	RO
1 Storeroom Lock	LC 8204 TRH016	US10BE	SA
2 Cylinder	Match/Expand Facility Existing		OT
2 Surface Closer	351 O/P9 (TO SUIT)	EB	SA
2 Kick Plate	K1050 10" CSK	10BE	RO
2 Door Stop	403/441CU (TO SUIT)	10BE	RO
2 Silencer	608/609 (TO SUIT)		RO

Set: 9.0

Doors: 003

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Storeroom Lock	LC 8204 TRH016	US10BE	SA
1 Cylinder	Match/Expand Facility Existing		OT
1 Surface Closer	351 H	EB	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Door Stop	403/441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO

Set: 10.0

Doors: 006

1 Cylinder	Match/Expand Facility Existing		OT
1 Door Stop	403/441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO

Set: 11.0

Doors: 002, 112A, 112B, 112C

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Privacy Lock	V21 8265-VNI H016	US10BE	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Mop Plate	K1050 4" CSK	10BE	RO
1 Door Stop	403/441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO
1 Coat Hook	RM802	10BE	RO

Set: 12.0

Doors: 007

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Passage Latch	8215 TRH016	US10BE	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Mop Plate	K1050 4" CSK	10BE	RO
1 Door Stop	403/441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO

Set: 14.0

Doors: X001

1 Gasketing (Head/Jambs)	S773D		PE

Set: 15.0

Doors: X004B, X100, X101B, X102, X103, X105, XST01, XST03

1 Surface Closer	351 O/P9 (TO SUIT)	EB	SA

Set: 16.0

Doors: 101

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Storeroom Lock	LC 8204 TRH016	US10BE	SA
1 Cylinder	Match/Expand Facility Existing		OT
1 Surface Closer	351 CPS	EB	SA
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Rain Guard	346D		PE
1 Gasketing (Head/Jambs)	S773D		PE
1 Sweep (w/ drip edge)	345ZDNB		PE
1 Threshold	252x3DFG MSES25SS		PE
1 Position Switch	DPS-M/W-BK (TO SUIT)		SU

Set: 17.0

Doors: 007B, 113

1 Continuous Hinge	DFM__HD1 - DOOR HEIGHT		PE
1 Storeroom Lock	LC 8204 TRH016	US10BE	SA
1 Cylinder	Match/Expand Facility Existing		OT
1 Kick Plate	K1050 10" CSK	10BE	RO
1 Door Stop	403-441CU (TO SUIT)	10BE	RO
3 Silencer	608/609 (TO SUIT)		RO

END OF SECTION 087100

SHEET ADDED
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AUGUST 29, 2025

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Revisions:

No.	Date	Description
1	2/7/2025	PERMIT REVISIONS

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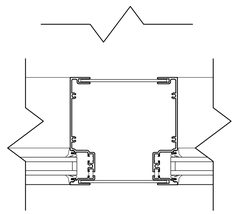
DOOR HARDWARE

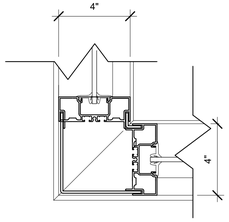
A5.01

SHEET 73 OF 179

22057



22 A5.05 SF JAMB DETAIL
3" = 1'-0"



17 A5.05 INTERIOR SF CORNER DETAIL
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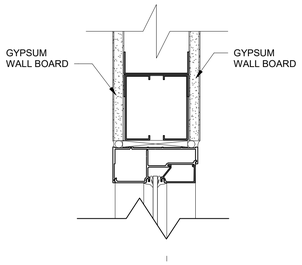

12 A5.05 INTERIOR SF HEAD & JAMB DETAIL
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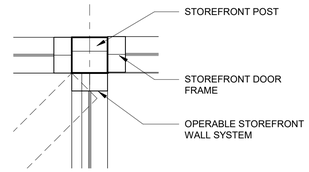
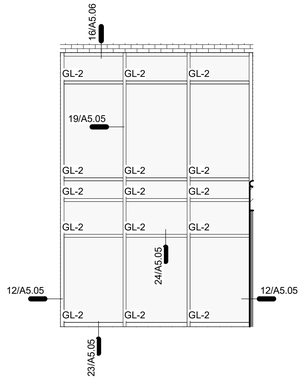
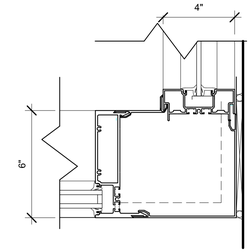


7 A5.05 POST DETAIL
1 1/2" = 1'-0"



ALUMINUM FRAMED STOREFRONT : ES-1B

3 A5.05 ES02 ELEVATION
1/4" = 1'-0"



21 A5.05 SF CORNER DETAIL
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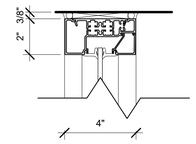

16 A5.05 INTERIOR SF HEAD DETAIL
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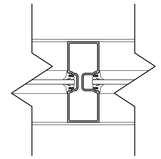

11 A5.05 INTERIOR SF VERT MULLION DETAIL
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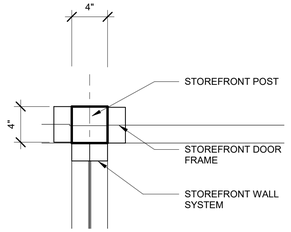
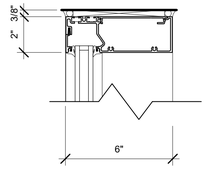
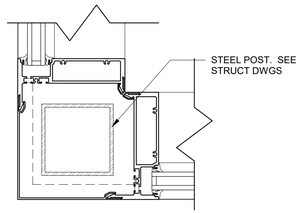


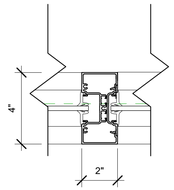
6 A5.05 POST DETAIL
1 1/2" = 1'-0"



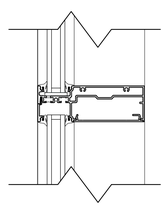
25 A5.05 HEAD / jamb DETAIL
3" = 1'-0"



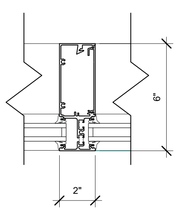
20 A5.05 SF OUTSIDE CORNER DETAIL
3" = 1'-0"



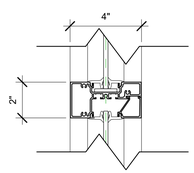
15 A5.05 INTERIOR SF VERT MULLION
3" = 1'-0"



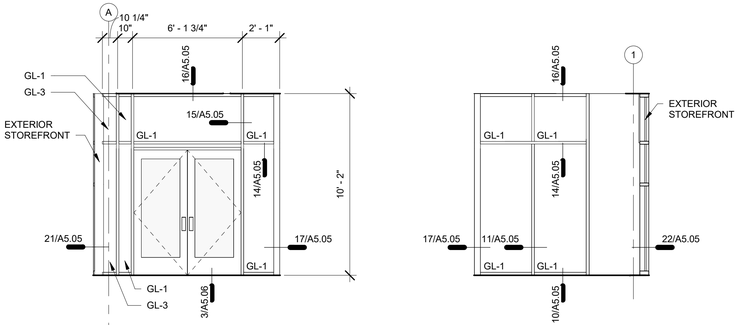
24 A5.05 MULLION DETAIL - HORIZONTAL
3" = 1'-0"



19 A5.05 SF MULLION DETAIL - VERTICAL
3" = 1'-0"

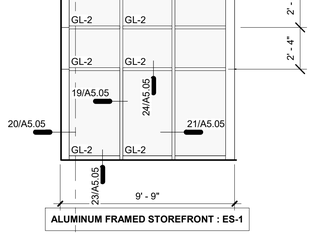


14 A5.05 INTERIOR SF HORIZ MULLION
3" = 1'-0"



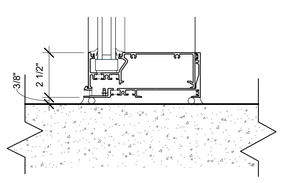
9 A5.05 SF3 ELEVATION
1/4" = 1'-0"

5 A5.05 SF2 ELEVATION
1/4" = 1'-0"

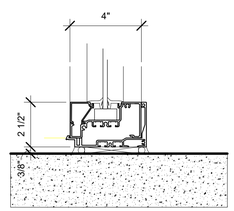


ALUMINUM FRAMED STOREFRONT : ES-1

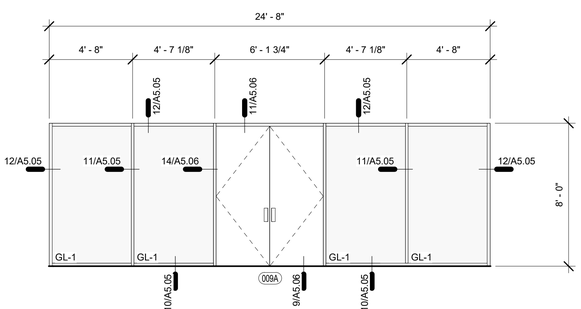
2 A5.05 ES01B ELEVATION
1/4" = 1'-0"



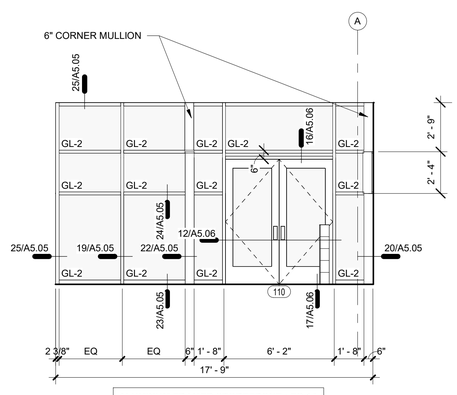
23 A5.05 SF SILL DETAIL
3" = 1'-0"



13 A5.05 INTERIOR SF SILL DETAIL
3" = 1'-0"



4 A5.05 SF1 ELEVATION
1/4" = 1'-0"



ALUMINUM FRAMED STOREFRONT : ES-1A

1 A5.05 ES01A ELEVATION
1/4" = 1'-0"

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GLAZING ELEVATIONS / DETAILS

A5.05

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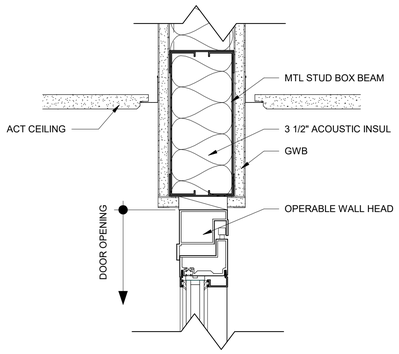
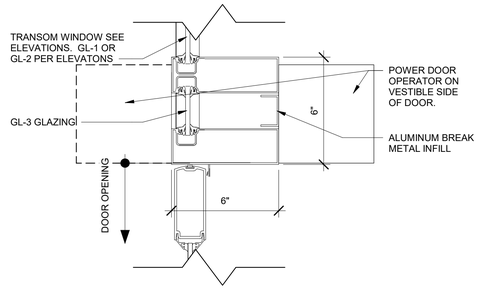
22057

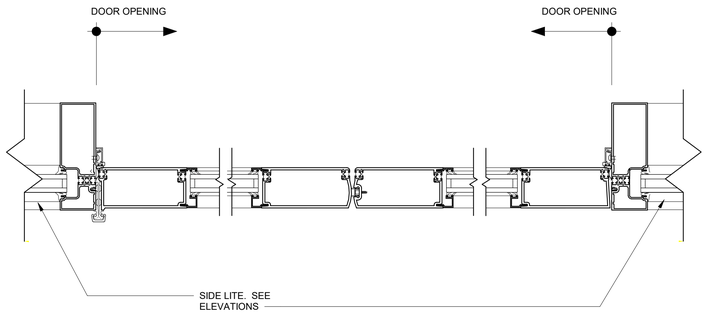
2/6/2026 4:43:48 PM



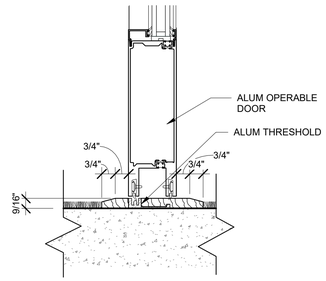
20 A5.06 HEAD DETAIL - OPERABLE WALL
3" = 1'-0"



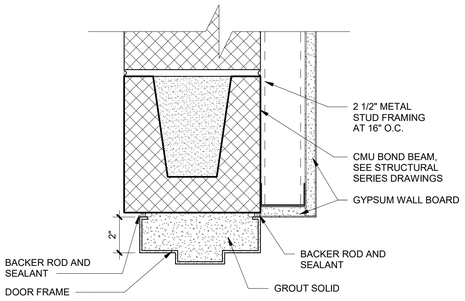
16 A5.06 HEAD DETAIL - SF AT TRANSOM (FP)
3" = 1'-0"



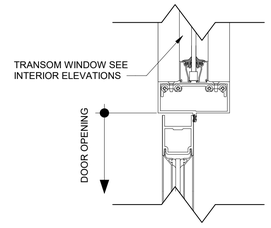
12 A5.06 JAMB DETAIL - SF AT ENTRANCE DOOR
3" = 1'-0"



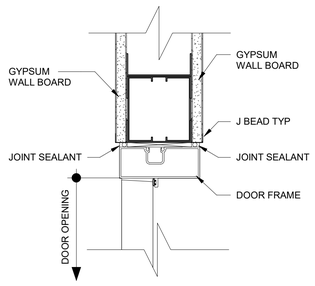
4 A5.06 DOOR SILL DETAIL
3" = 1'-0"



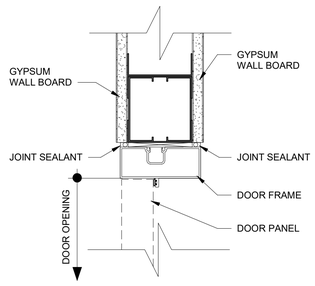
19 A5.06 MASONRY DOOR HEAD
3" = 1'-0"



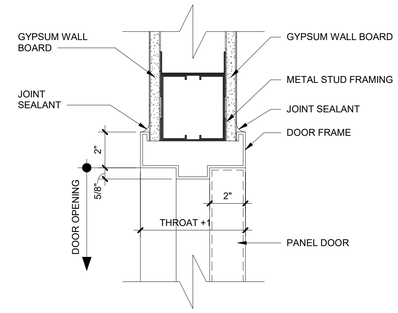
15 A5.06 HEAD DETAIL - SF WITH TRANSOM (CP)
3" = 1'-0"



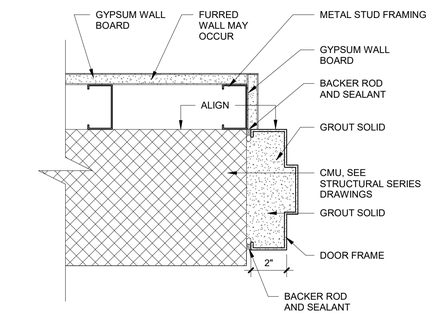
11 A5.06 HEAD DETAIL - INTERIOR SF
3" = 1'-0"



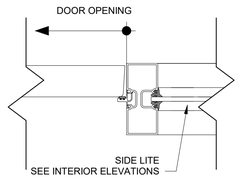
7 A5.06 HEAD DETAIL - INTERIOR ALUM
3" = 1'-0"



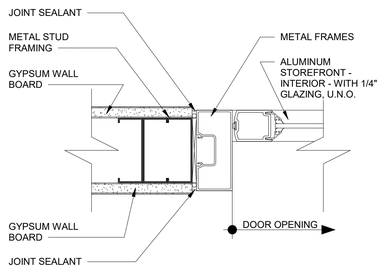
3 A5.06 HEAD DETAIL - INTERIOR HM
3" = 1'-0"



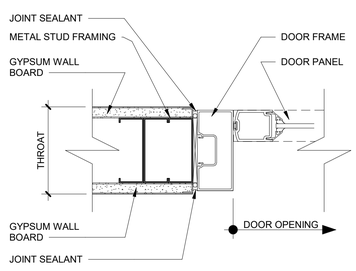
18 A5.06 MASONRY DOOR JAMB
3" = 1'-0"



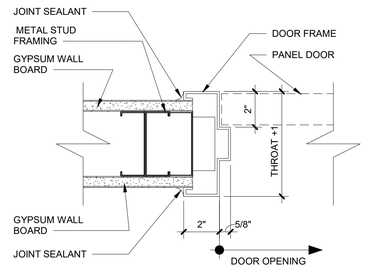
14 A5.06 JAMB DETAIL - SF WITH SIDELITE (CP)
3" = 1'-0"



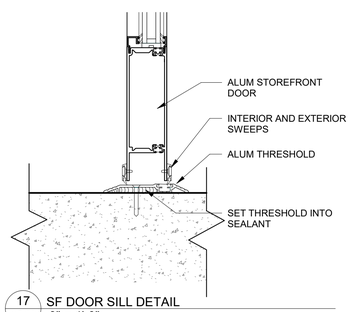
10 A5.06 JAMB DETAIL - INTERIOR SF
3" = 1'-0"



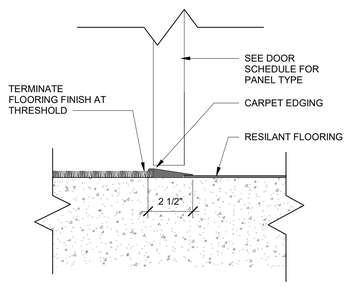
6 A5.06 JAMB DETAIL - INTERIOR ALUM
3" = 1'-0"



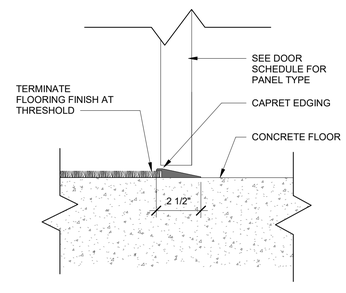
2 A5.06 JAMB DETAIL - INTERIOR HM
3" = 1'-0"



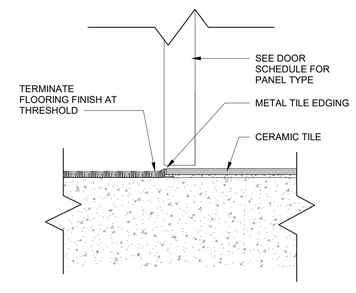
17 A5.06 SF DOOR SILL DETAIL
3" = 1'-0"



13 A5.06 SILL DETAIL - INTERIOR THRESHOLD TRANSITION
3" = 1'-0"



9 A5.06 SILL DETAIL - INTERIOR THRESHOLD CPT/CONC
3" = 1'-0"



5 A5.06 SILL DETAIL - INTERIOR THRESHOLD CT
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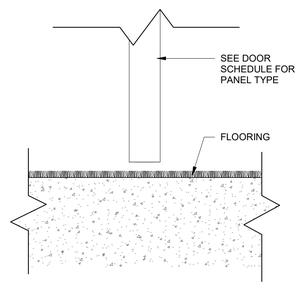

1 A5.06 SILL DETAIL - INTERIOR THRESHOLD NONE
3" = 1'-0"

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WINDOW-DOOR /OPENING DETAILS

A5.06

SHEET 75 OF 179

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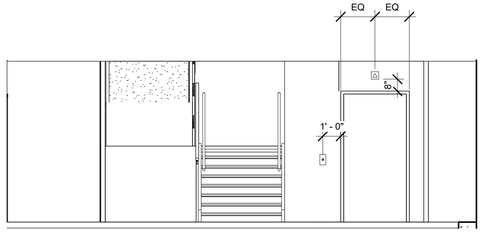
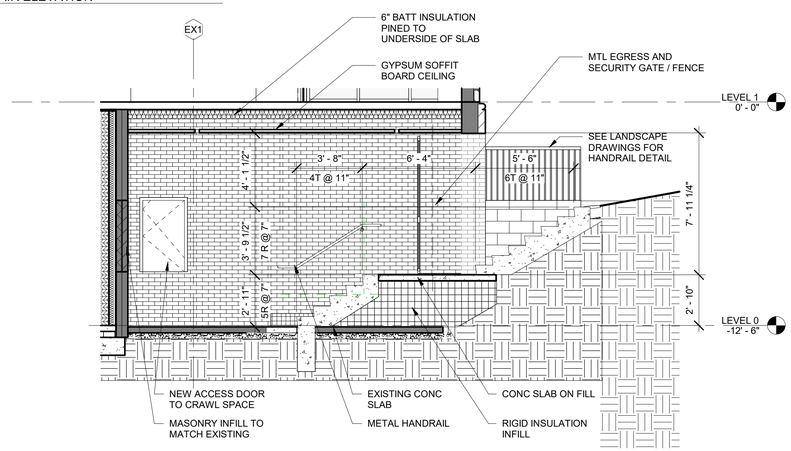
SYMBOL LEGEND

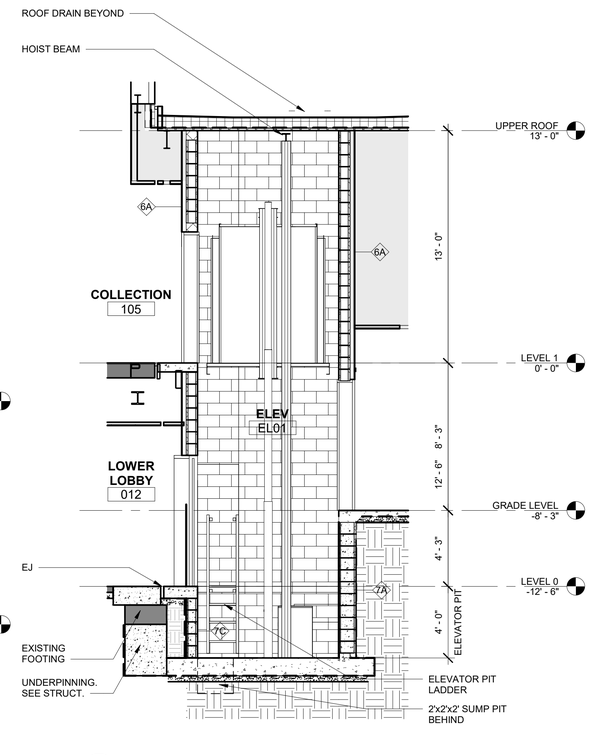
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- (#) WALL PARTITION TYPE. REFER TO SHEET A4.10 FOR ADDITIONAL INFORMATION.
- (XX##) EXTERIOR STOREFRONT. REFER TO SHEET A5 SERIES FOR ADDITIONAL INFORMATION.



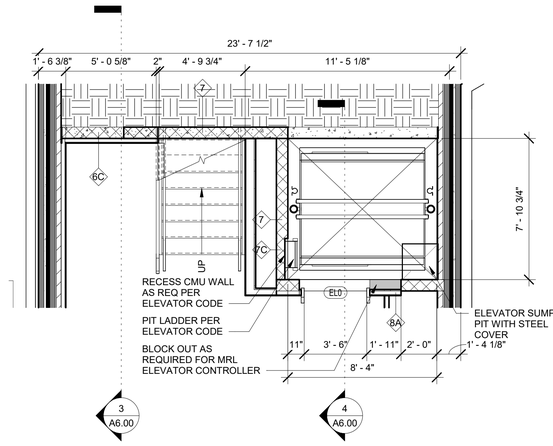
8 A6.00 ELEVATOR / STAIR ELEVATION
1/4" = 1'-0"



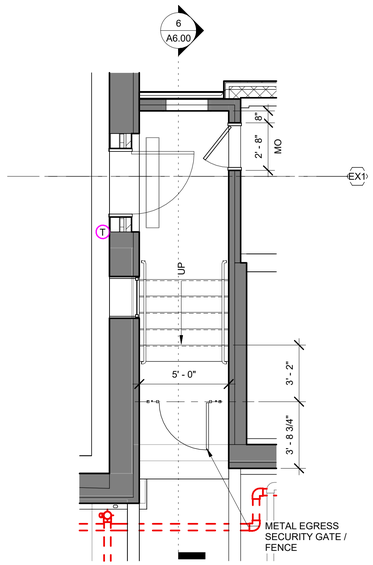
6 A6.00 EGRESS STAIR SECTION
1/4" = 1'-0"



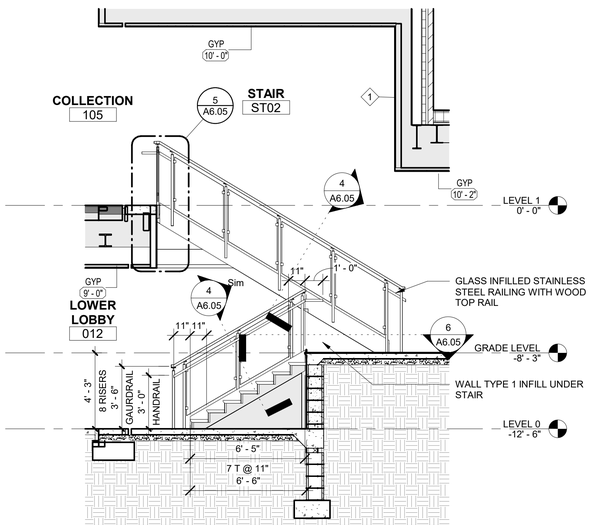
4 A6.00 ELEVATOR SECTION
1/4" = 1'-0"



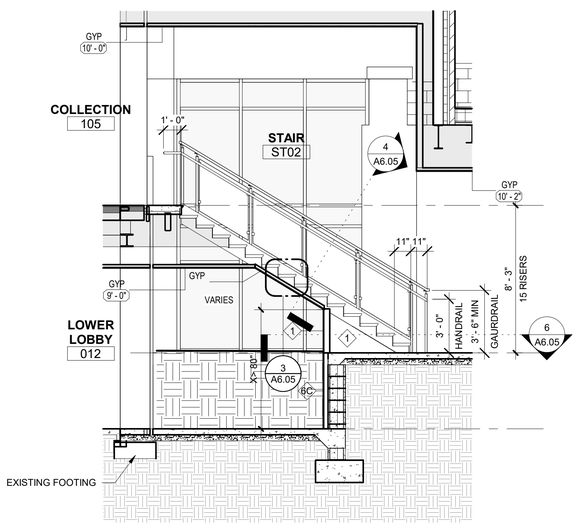
2 A6.00 LEVEL 0 ELEVATOR FLOOR PLAN
1/4" = 1'-0"



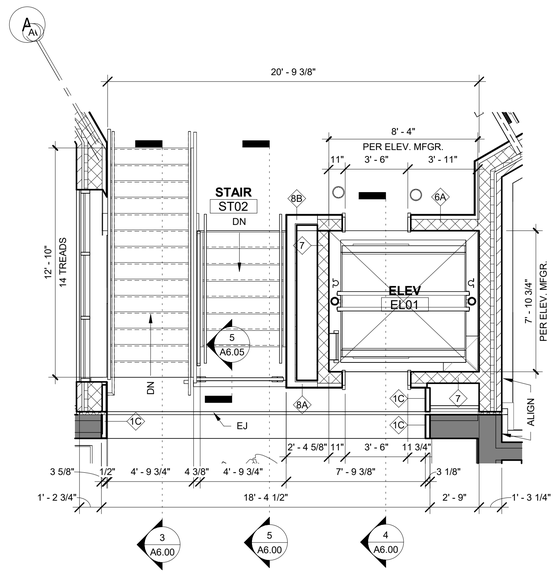
9 A6.00 EGRESS STAIR PLAN
1/4" = 1'-0"



5 A6.00 LOWER STAIR SECTION
1/4" = 1'-0"



3 A6.00 UPPER STAIR SECTION
1/4" = 1'-0"



1 A6.00 STAIR AND LEVEL 1 ELEVATOR PLAN
1/4" = 1'-0"

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ENLARGED STAIR & ELEVATOR PLANS & SECTIONS

A6.00

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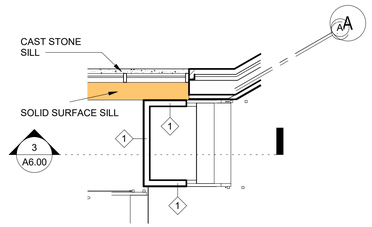
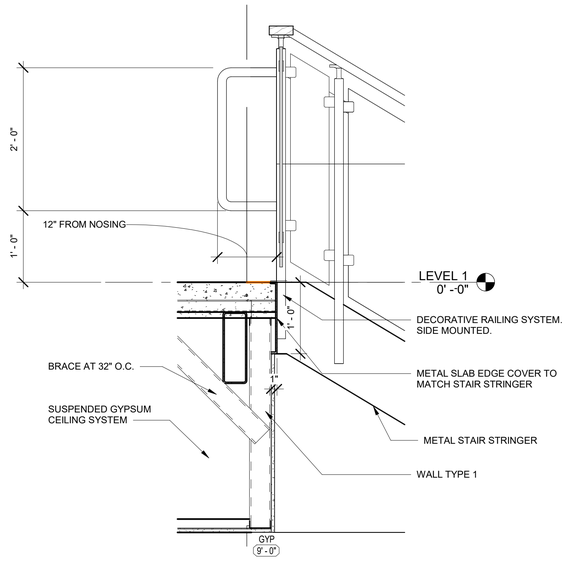
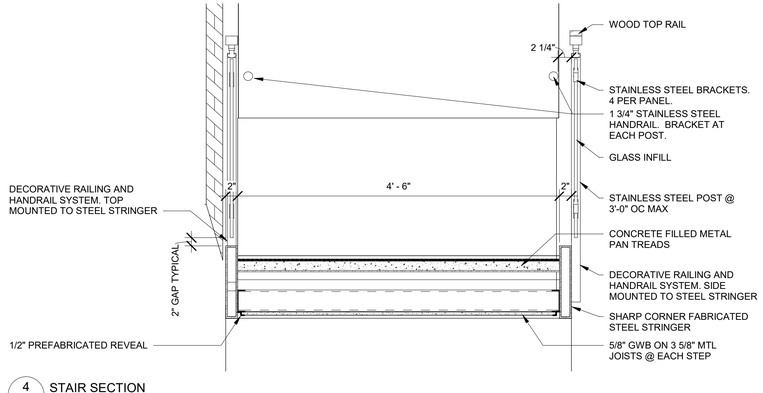


6 A6.05 STAIRWELL SKIRT WALLS
1/4" = 1'-0"



5 A6.05 LANDING RAILING SECTION
1" = 1'-0"



4 A6.05 STAIR SECTION
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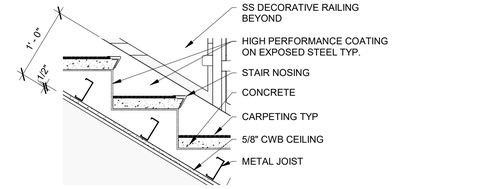
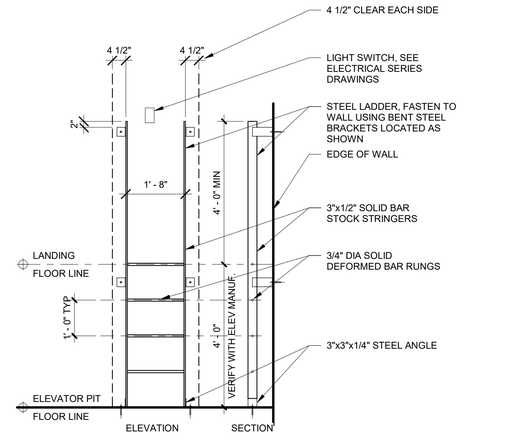
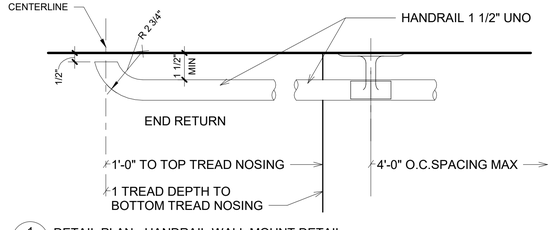


3 A6.05 DETAIL - STAIR SECTION
1" = 1'-0"



2 A6.05 DETAIL - PIT LADDER
1/2" = 1'-0"



1 A6.05 DETAIL PLAN - HANDRAIL-WALL MOUNT DETAIL
3" = 1'-0"

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STAIR AND ELEVATOR DETAILS

A6.05

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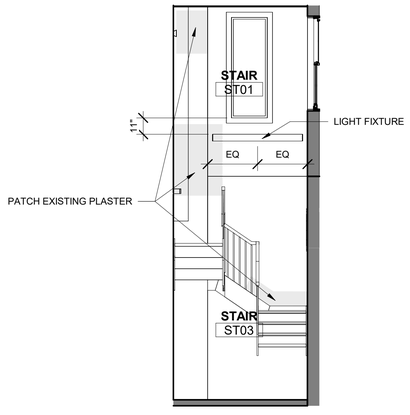
INTERIOR ELEVATIONS GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4. ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

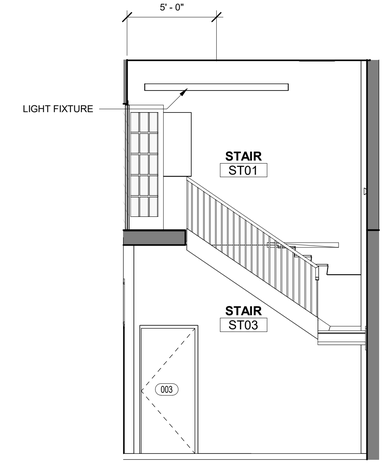
INTERIOR ELEVATIONS LEGEND

(T)	INDICATES LOCATION OF TEMPERED GLAZING
◇T◇	INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION
MB-XX	INDICATES LOCATION OF MARKER BOARD. SEE A8.00 FOR FURTHER INFORMATION
TB-XX	INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION

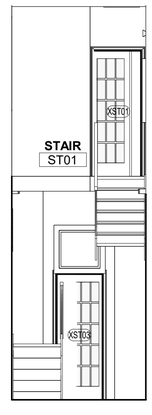
NOTES:
-PATCH ALL CRACKS, PEELING PAINT, MISSING PLASTER, WATER DAMAGED PLASTER AND PREP FOR PAINTING.
-REPLACE MISSING WOOD TRIM ON EXISTING STAIRCASE.



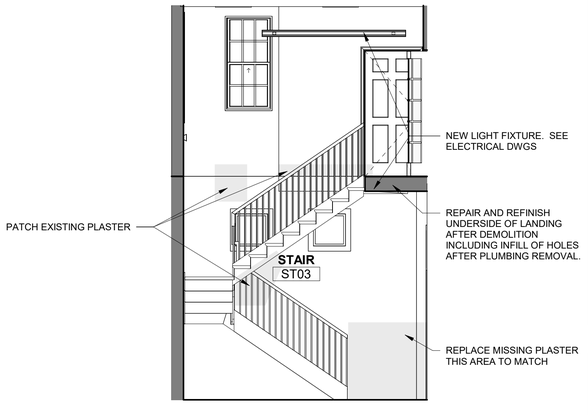
4 A6.06 STAIRWELL ELEVATION - EAST
1/4" = 1'-0"



3 A6.06 STAIRWELL ELEVATION - SOUTH
1/4" = 1'-0"



2 A6.06 STAIRWELL ELEVATION - WEST
1/4" = 1'-0"



1 A6.06 STAIRWELL ELEVATION - NORTH
1/4" = 1'-0"

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INTERIOR ELEVATIONS STAIRWELL

A6.06

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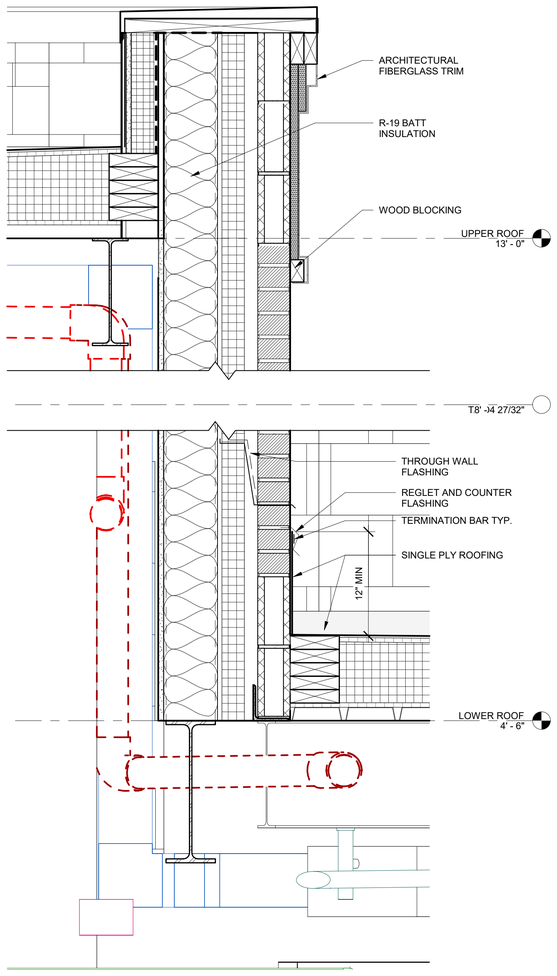
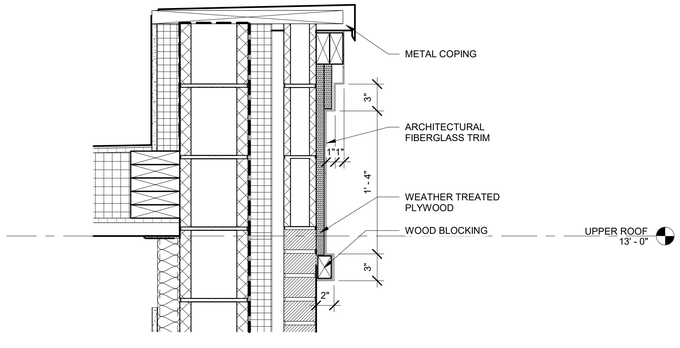
NOTE:
SEE DETAIL 3/A7.00 FOR TYP NOTES
AND DETAILS



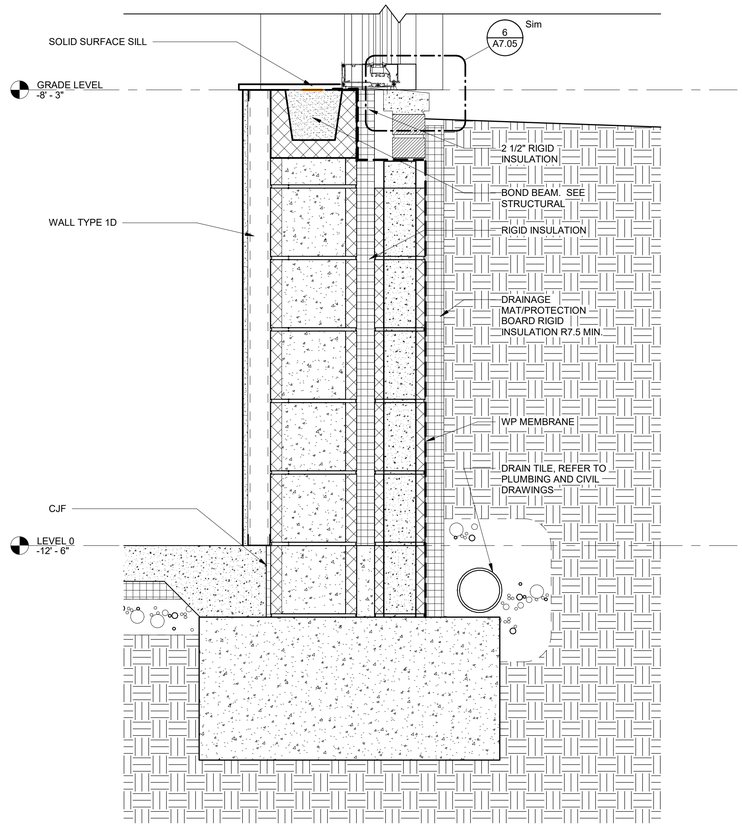
5 A7.00 DETAIL - UPPER ROOF AND WALL
1 1/2" = 1'-0"

NOTE:
SEE 3/A7.00 FOR TYP
NOTES AND DIMENSIONS

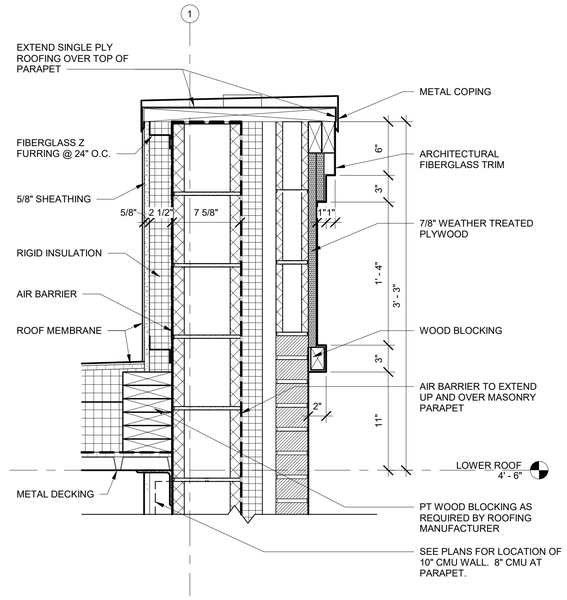


4 A7.00 DETAIL - TYPICAL UPPER ROOF COPING
1 1/2" = 1'-0"

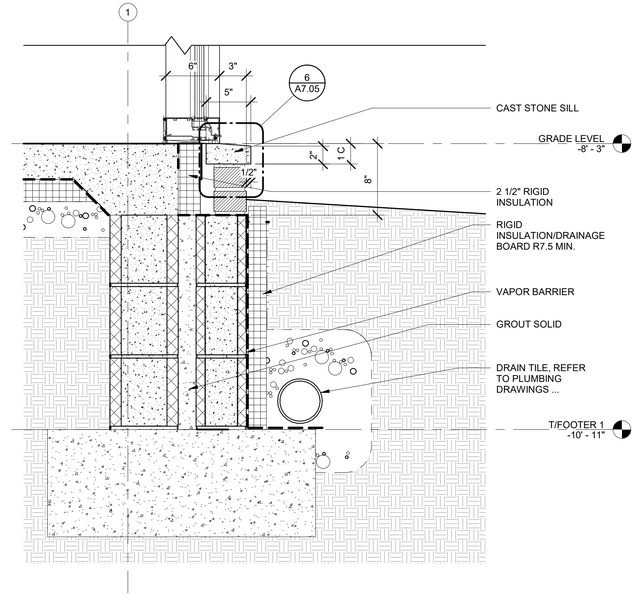
NOTE:
SEE DETAIL 1/A7.00 FOR TYP NOTES
AND DIMENSIONS



2 A7.00 DETAIL - TYPICAL BELOW GRADE FOUNDATION
1 1/2" = 1'-0"



3 A7.00 DETAIL - TYPICAL COPING DETAIL
1 1/2" = 1'-0"



1 A7.00 DETAIL - TYPICAL SLAB ON GRADE FOUNDATION
1 1/2" = 1'-0"

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EXTERIOR WALL SECTION DETAILS

A7.00

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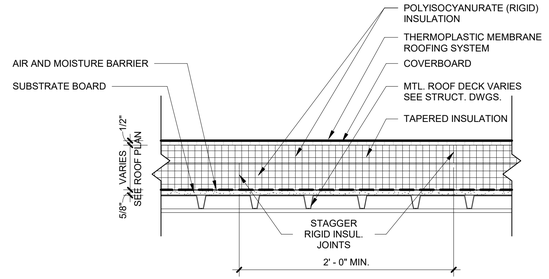
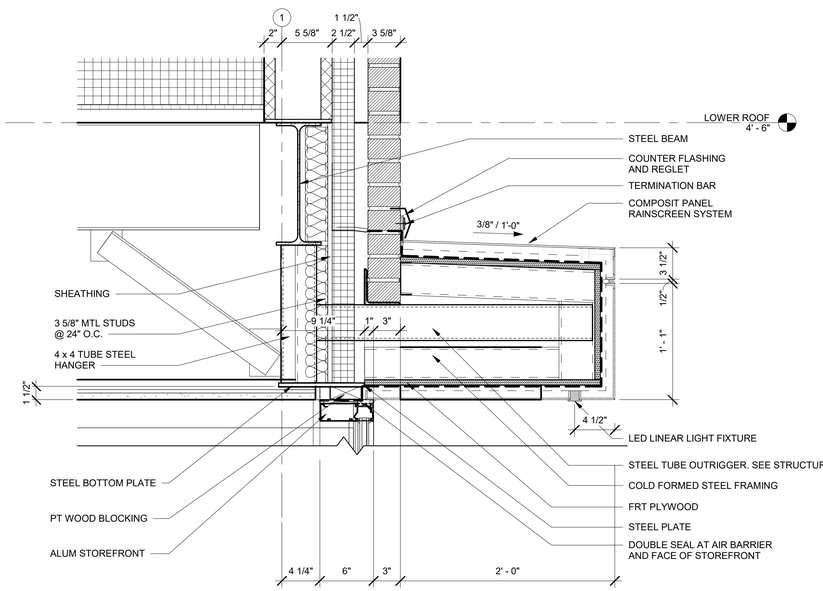
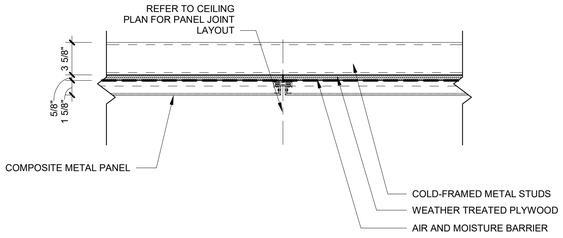


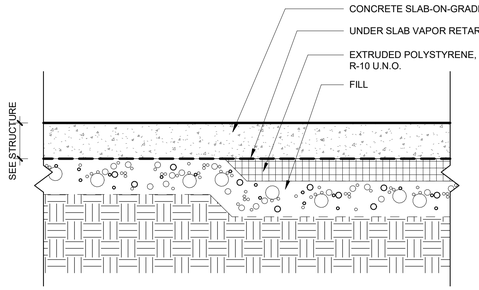
6 A7.01 SECTION DETAIL - LOW-SLOPE ROOF ASSEMBLY
1 1/2" = 1'-0"



5 A7.01 SECTION DETAIL - CANOPY
1 1/2" = 1'-0"



3 A7.01 SECTION DETAIL - TYP ROOF SOFFIT
1 1/2" = 1'-0"



2 A7.01 SECTION DETAIL - TYP SLAB ON GRADE ASSEMBLY
1 1/2" = 1'-0"

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EXTERIOR WALL SECTION DETAILS

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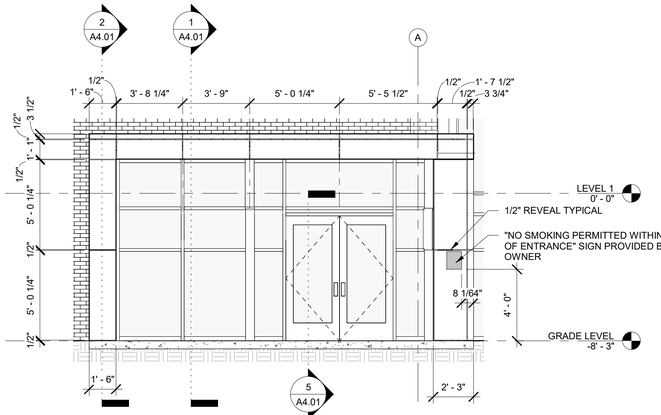
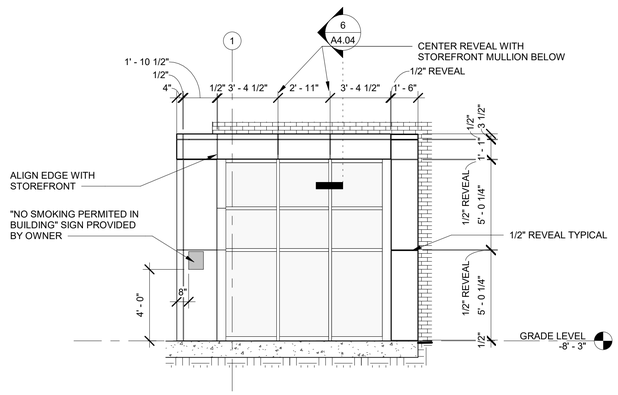
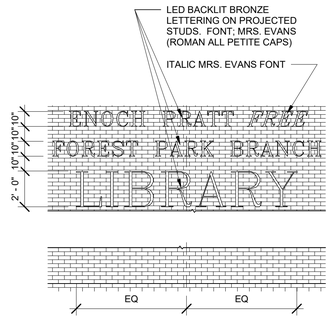


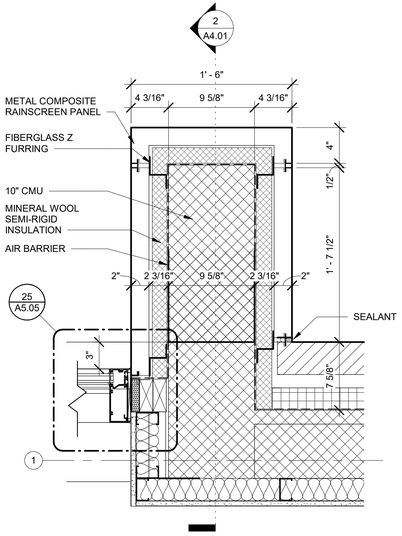
19 A7.05 NEW ADDITION - CANOPY ELEVATION
1/4" = 1'-0"



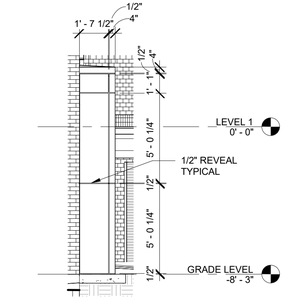
11 A7.05 NEW ADDITION - CANOPY ELEVATION
1/4" = 1'-0"



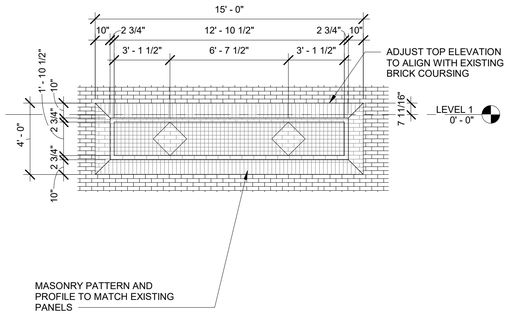
7 A7.05 NEW ADDITION - NORTH -SIGNAGE
1/4" = 1'-0"



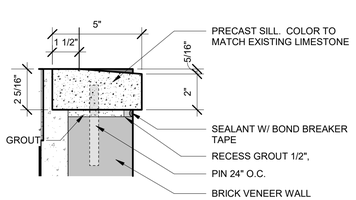
3 A7.05 DETAIL - PIER PLAN
1 1/2" = 1'-0"



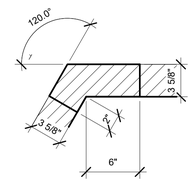
14 A7.05 NEW ADDITION - CANOPY END ELEVATION
1/4" = 1'-0"



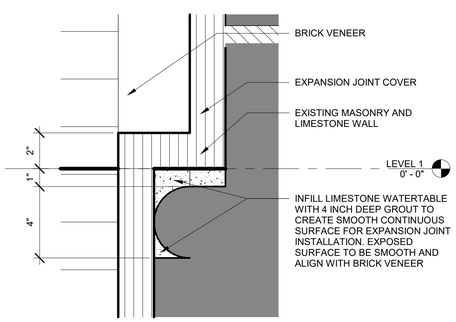
10 A7.05 MASONRY PANEL DETAIL
1/4" = 1'-0"



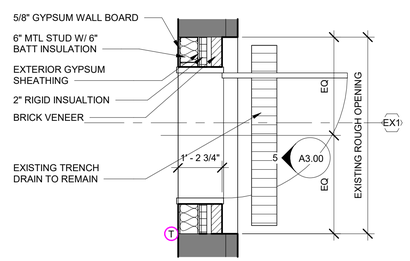
6 A7.05 PRECAST SILL
3" = 1'-0"



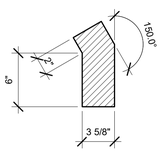
2 A7.05 SPECIAL BRICK SHAPE 02
1 1/2" = 1'-0"



9 A7.05 DETAIL - EXP JOINT AT LIMESTONE WATERTABLE
3" = 1'-0"



5 A7.05 DETAIL - FLOOR PLAN
1/2" = 1'-0"



1 A7.05 SPECIAL BRICK SHAPE 01
1 1/2" = 1'-0"

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EXTERIOR DETAILS

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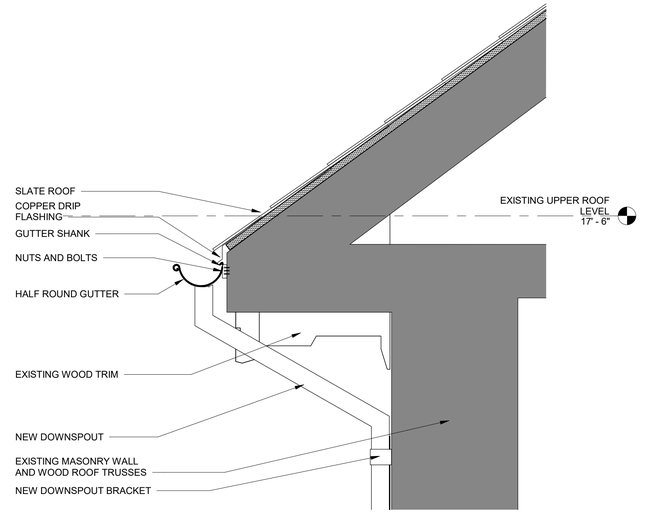
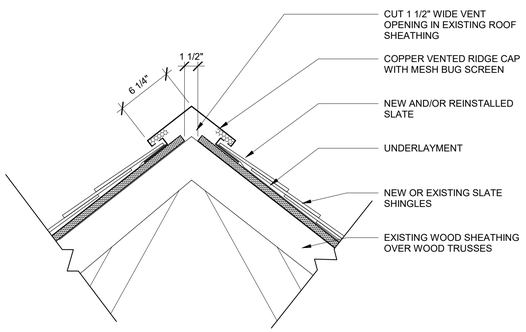
ROOF PLAN GENERAL NOTES

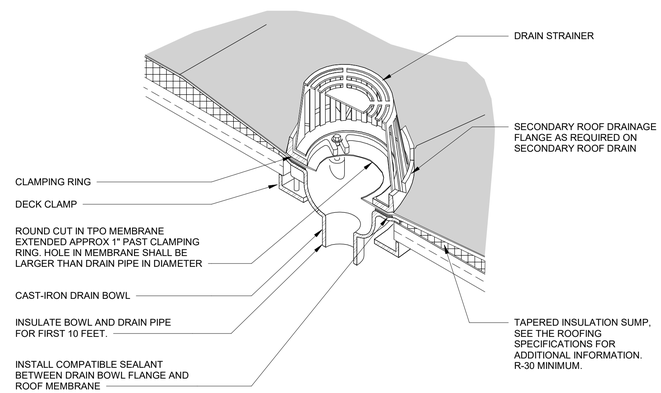
1. LOW POINT AT ROOF DRAIN IS REFERENCE AS (+0"); HIGH POINT OF INSULATION IS REFERENCED FROM ROOF DRAIN.
2. TAPERED INSULATION SLOPES AT 1/4" PER FOOT MINIMUM.
3. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.
4. SEE DEMOLITION DRAWINGS FOR SCOPE OF WORK ON SLATE ROOF.
5. FIRE CLASSIFICATION REQUIREMENT OF THE NEW AND EXISTING ROOF IS CLASSIFICATION C. SLATE ROOFING SYSTEM IS CLASS A.



2 A7.10 ROOF/GUTTER TYPICAL DETAIL
1 1/2" = 1'-0"



5 A7.10 DETAIL - RIDGE VENT
1 1/2" = 1'-0"



1 A7.10 DETAIL - ROOF DRAIN
1 1/2" = 1'-0"

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ROOF DETAILS

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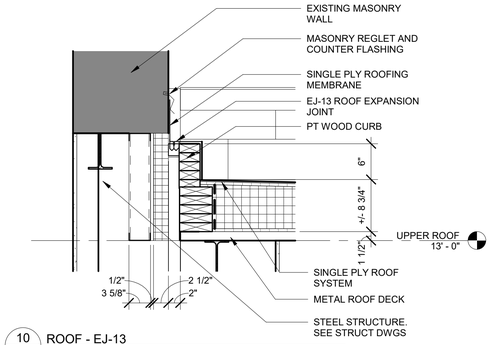
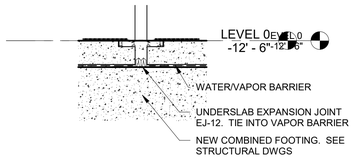
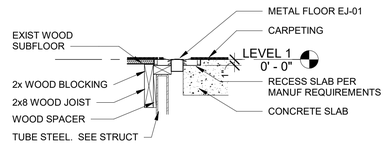


10 A7.15 ROOF - EJ-13
1" = 1'-0"

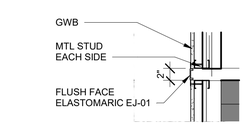


9 A7.15 FLOOR - EJ-12
1" = 1'-0"

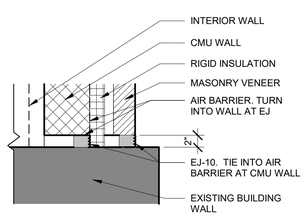


8 A7.15 FLOOR - EJ-01
1" = 1'-0"

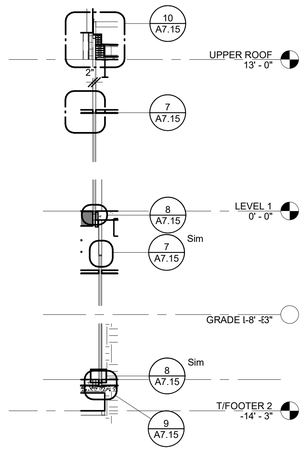
7 A7.15 CEILING - EJ-02
1" = 1'-0"



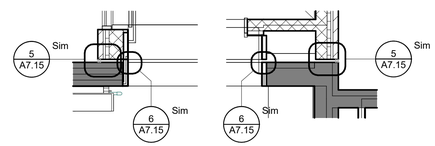
6 A7.15 WALL - EJ-02
1" = 1'-0"



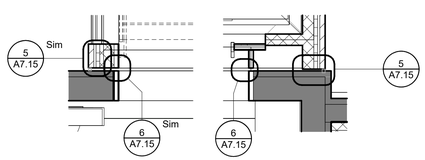
5 A7.15 LEVEL 0 - FLOOR PLAN -EJ-10
1" = 1'-0"



3 A7.15 SECTION
1/4" = 1'-0"

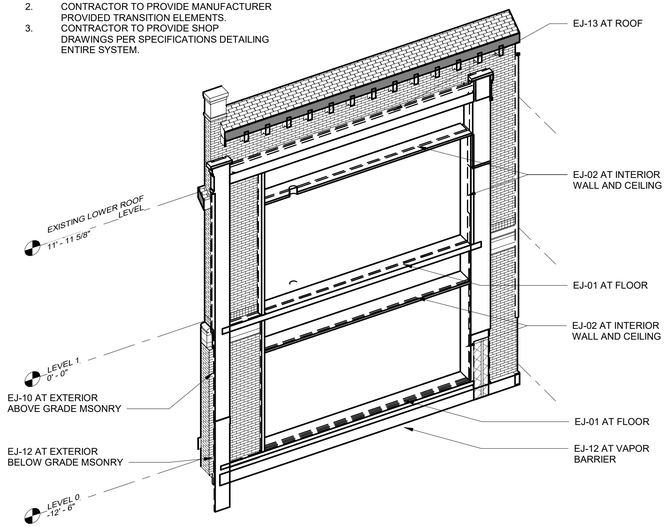


2 A7.15 LEVEL 1 EXPANSION JOINT ENLARGED PLAN
1/4" = 1'-0"



1 A7.15 LEVEL 0 EXPANSION JOINT ENLARGED PLAN
1/4" = 1'-0"

NOTES:
1. ALL EXPANSION JOINTS TO BE CONTINUOUS AND TIE INTO OTHER EXPANSION JOINTS TO CREATE A CONTINUOUS WEATHERTIGHT SYSTEM.
2. CONTRACTOR TO PROVIDE MANUFACTURER PROVIDED TRANSITION ELEMENTS.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS PER SPECIFICATIONS DETAILING ENTIRE SYSTEM.



4 A7.15 EXPANSION JOINT ISOMETRIC

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DETAILS - EXPANSION JOINTS

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FINISH SCHEDULE

LEVEL	ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
LEVEL 0	001	CORRIDOR	CPT-3	RB-2	PT-1	ACT-2	
LEVEL 0	002	RR	CT-1	CT-1	CT-2, CT-3	ACT-2	REFER TO ELEVATIONS FOR TILE PATTERN
LEVEL 0	003	ELEC./ IT	SC-1	RB-1	PT-1	EXP. PT-8	
LEVEL 0	005	STAFF WORKROOM	CPT-3	RB-2	PT-1	ACT-2	
LEVEL 0	006	OFFICE	CPT-3	RB-2	PT-1	ACT-2	
LEVEL 0	007	BREAKROOM	RES-1	RB-1	PT-1	ACT-2	
LEVEL 0	008	MECHANICAL	SC-1	-	PT-1	EXP. PT-8	
LEVEL 0	009	MEETING ROOM	RES-1	RB-1	PT-1, PT-3	ACT-1	
LEVEL 0	010	STORAGE	RES-1	RB-1	PT-1	EXP. PT-8	
LEVEL 0	011	ELECTRICAL	SC-1	RB-1	PT-1	EXP. PT-8	
LEVEL 0	012	LOWER LOBBY	RES-1	RB-1	PT-1	PT-8	
LEVEL 1	100	VESTIBULE	WOM-1	WDB-1	PT-1, PT-2	PT-8	
LEVEL 1	101	DELIVERIES	WOM-1	WDB-1	PT-1, PT-2	ACT-1	
LEVEL 1	102	STORAGE	CPT-3	WDB-1	PT-1, PT-2	ACT-2	
LEVEL 1	103	STORAGE	CPT-3	WDB-1	PT-1, PT-2	ACT-2	
LEVEL 1	104	CHILDREN'S	CPT-2	WDB-1	PT-1, PT-2, PT-5	ACT-1, PT-8	
LEVEL 1	105	COLLECTION	CPT-1, CPT-2	WDB-1	PT-1, PT-2	PT-8	
LEVEL 1	106	STUDY	CPT-2	WDB-1	PT-1, PT-7	ACT-1	
LEVEL 1	107	STUDY	CPT-2	WDB-1	PT-1, PT-7	ACT-1	
LEVEL 1	108	STUDY	CPT-2	WDB-1	PT-1, PT-7	ACT-1	
LEVEL 1	109	ADULT	CPT-2	WDB-1	PT-1, PT-2	ACT-1, PT-8	
GRADE LEVEL	110	VESTIBULE	WOM-1	RB-2	PT-1	PT-8	
GRADE LEVEL	111	LOBBY	WOM-1	RB-2	PT-1, PT-4	PT-8	
GRADE LEVEL	112	RESTROOM VESTIBULE	CT-1	CT-1	PT-1	PT-8	
GRADE LEVEL	113	JAN CLO	SC-1	RB-1	PT-1	EXP. PT-8	HIW-1
GRADE LEVEL	114A	FAMILY RR	CT-1	CT-1	CT-2, CT-3	PT-8	REFER TO ELEVATIONS FOR TILE PATTERN
GRADE LEVEL	114B	RR	CT-1	CT-1	CT-2, CT-3	PT-8	REFER TO ELEVATIONS FOR TILE PATTERN
GRADE LEVEL	114C	RR	CT-1	CT-1	CT-2, CT-3	PT-8	REFER TO ELEVATIONS FOR TILE PATTERN
GRADE LEVEL	EL01	ELEV	WOM-1	-	-	-	MFG STANDARD OFFERING
LEVEL 1	ST01	STAIR	CPT-3, TR-5	WDB-1	PT-1	ACT-2	
GRADE LEVEL	ST02	STAIR	WOM-1, TR-5	-	PT-1	PT-8	
LEVEL 0	ST03	STAIR	CPT-3, TR-5	WDB-1	PT-1	PT-8	

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FINISH FLOOR GENERAL NOTES

1 CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS, FINISH PLANS AND FINISH SCHEDULE AND SHALL AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR OMISSION THAT HE MAY DISCOVER.

2 ITEMS REQUIRING FINISH SELECTION THAT DO NOT APPEAR ON THE FINISH PLANS SHALL BE SELECTED FROM SHOP DRAWING SUBMITTALS AND/OR SAMPLES AS REQUIRED BY THE PROJECT MANUAL (SPECIFICATIONS).

3 UNLESS NOTED OTHERWISE, ALL FLOOR MATERIAL TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF A DOOR OR CASED OPENING.

4 WALL BASE SHALL NOT BE INSTALLED ON EXPOSED STEEL COLUMNS.

5 UNLESS NOTED OTHERWISE, ALL FINISH FLOOR MATERIAL TO BE INSTALLED PRIOR TO, AND EXTEND UNDER, SHELVING AND ARCHITECTURAL WOODWORK.

6 ALL METAL ACCESS DOORS, ELECTRICAL PANELS, AND DIFFUSERS, VENTS, ETC. SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH UNLESS NOTED OTHERWISE. THIS NOTE APPLIES TO OCCUPIED AREAS ONLY.

7 CONTRACTOR SHALL MATCH INTERIOR DESIGNER'S SAMPLE FOR ALL STAINED WOODS. CONTRACTOR SHALL PROVIDE TWO (2) STAIN SAMPLES ON ACTUAL WOOD TYPES TO BE USED.

8 CONTRACTOR SHALL PAINT ALL EXPOSED CEILING TILE EDGES THAT ARE CUT TO MATCH SAID TILES.

9 UNLESS OTHERWISE NOTED, CEILING ACCESS PANELS, HVAC REGISTERS, HVAC CONTROLS, ELECTRICAL OUTLETS/DEVICES, SWITCHES AND GRILLS TO BE WHITE. CONFIRM WITH ARCHITECT IN SHOP DRAWINGS PRIOR TO ORDERING.

10 WALL BASE SHALL NOT BE INSTALLED ON CABINET TOE KICK UNLESS SPECIFICALLY AUTHORIZED OR DIRECTED BY ARCHITECT TO DO SO.

11 UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILING TO BE PAINTED, PT-8

12 ALL EXPOSED STEEL TO BE PAINTED.

13 ALL ETR TRIMWORK, WALL BASE, MOULDING, WALL PANELING, DOORS, STAIR RAILING, HANDRAIL, AND STAIR STRINGER TO BE PAINTED PT-2.

14 ALL NEW TO MATCH EXISTING WALL BASE AND TRIM TO BE PAINTED PT-2, U.N.O.

15 EXISTING TO REMAIN WALLS TO BE PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. VERIFY EXTENT OF NECESSARY REPAIRS IN FIELD.

FINISH LEGEND

CARPET (CPT)

NOTE: ALL INTERIOR CARPET FLOOR FINISHES COMPLY WITH ASTM D 2859, OR THE DOC FF-1 PILL TEST (IBC: 804.2).

CPT-1
MFG: INTERFACE
STYLE: WW890 - 128240AK00
COLOR: 105388 NATURAL DOBBY
SIZE: 25cm X 1m
INSTALLATION: ASHLAR
LOCATION: GENERAL

CPT-2
MFG: INTERFACE
STYLE: WW870 - 138930AK00
COLOR: 105348 NATURAL WEFT
SIZE: 25cm X 1m
INSTALLATION: ASHLAR
LOCATION: GENERAL

CPT-3
MFG: INTERFACE
STYLE: OPEN AIR 410 - 163400AK0G
COLOR: 106970 NATURAL
SIZE: 25cm X 1m
INSTALLATION: ASHLAR
LOCATION: STAFF AREAS

WALK OFF MAT (WOM)

NOTE: ALL INTERIOR CARPET FLOOR FINISHES COMPLY WITH ASTM D 2859, OR THE DOC FF-1 PILL TEST (IBC: 804.2).

WOM-1
MFG: SHAW CONTRACT
STYLE: PORTAL 5T035
COLOR: 34557 STERLING
SIZE: 24in X 24in
INSTALLATION: MONOLITHIC
LOCATION: VESTIBULE, LOBBY

RESILIENT (RES)

RES-1
MFG: INTERFACE
STYLE: NATURAL WOODGRAINS
COLOR: A00202 MADAGASCAR
SIZE: 25cm X 1m
INSTALLATION: ASHLAR

SEALED CONCRETE (SC)

SC-1
REFER TO PROJECT MANUAL

RESILIENT BASE (RB)

NOTE: RESILIENT BASE NOT TO BE INSTALLED ON CABINETRY UNLESS NOTED OTHERWISE

RB-1
MFG: JOHNSONITE BY TARKETT
STYLE: COVE BASE (TOE)
COLOR: GANACHE 284
SIZE: 4"H ROLL
LOCATION: AREAS OF RESILIENT FLOORING

RB-2
MFG: JOHNSONITE BY TARKETT
STYLE: STRAIGHT BASE (TOELESS)
COLOR: GATEWAY TA4 WG
SIZE: 4"H ROLL
LOCATION: AREAS OF CARPET FLOORING

WOOD BASE (WDB)

WDB-1
REUSED SALVAGED WOOD BASE OR NEW PROFILE TO MATCH EXISTING, PAINTED FINISH

FLOORING TRANSITION (TR)

TR-1
MFG: JOHNSONITE BY TARKETT
PROFILE: SLIM LINE TRANSITION CD-XX
COLOR: TA4 GATEWAY WG
LOCATION: CPT/RES

TR-2
MFG: JOHNSONITE BY TARKETT
PROFILE: REDUCER EG-XX-H
COLOR: TA4 GATEWAY WG
LOCATION: CPT/SC

TR-3
MFG: JOHNSONITE BY TARKETT
PROFILE: REDUCER EG-XX-H
COLOR: TA4 GATEWAY WG
LOCATION: RES/SC

TR-4
MFG: SCHLUTER
PROFILE: RENO-TK
COLOR: STAINLESS STEEL
LOCATION: CT/CPT

TR-5
MFG: FUTURA TRANSITIONS BY BONNELL ALUMINUM
PROFILE: 2-9/16" SAFETY STAIR NOSING FOR CARPET
COLOR: TBD
INSERT: TREDSAFE ANTI-SLIP INSERT
LOCATION: STAIR NOSING

TR-6
MFG: SCHLUTER
PROFILE: RENO-U
COLOR: STAINLESS STEEL
LOCATION: CT/SC

TILE (CT)

CT-1
MFG.: TILEBAR
STYLE: RIZO 2.0
COLOR: TAUPE
FINISH: MATTE
SIZE: 24in X 24in
PATTERN: REFER TO FLOOR PATTERN PLAN
LOCATION: RESTROOM FLOORS

CT-2
MFG.: ANATOLIA TILE
STYLE: PRIMA
COLOR: WARM WHITE
FINISH: MATTE
SIZE: 12in X 24in
PATTERN: REFER TO RESTROOM ELEVATIONS
LOCATION: RESTROOM WALLS

CT-3
MFG.: VIRGINIA TILE
STYLE: GALLERY
COLOR: LIGHT GREY CHEVRON
FINISH: MIXED
SIZE: 12in X 13in
PATTERN: REFER TO RESTROOM ELEVATIONS
LOCATION: RESTROOM WALLS

CERAMIC TILE ACCESSORIES

TOP TRIM & OUTSIDE CORNERS ACCESSORY
MFG: SCHLUTER SYSTEMS
STYLE: QUADEC
FINISH: STAINLESS STEEL
LOCATION: RESTROOMS
NOTE: VERIFY TILE THICKNESS, ALSO PROVIDE AT LOCATIONS WHERE WALL TILE INSTALLATION IS EXTENDS BEYOND FACE OF DOOR FRAME

COVE BASE ACCESSORY
MFG: SCHLUTER SYSTEMS
STYLE: DILEX-EHK COVE
FINISH: STAINLESS STEEL
NOTE: VERIFY TILE THICKNESS
LOCATION: RESTROOMS

PAINT (PT)

PT-1
MFG: SHERWIN WILLIAMS
COLOR: SW7008 ALABASTER
LOCATION: GENERAL

PT-2
MFG: SHERWIN WILLIAMS
COLOR: SW7043 WORLDLY GRAY
LOCATION: PAINTED WOOD TRIMWORK

PT-3
MFG: SHERWIN WILLIAMS
COLOR: SW6808 CELESTIAL
LOCATION: MEETING ROOM ACCENT

PT-4
MFG: SHERWIN WILLIAMS
COLOR: SW6244 NAVAL
LOCATION: ELEVATOR ACCENT

PT-5
MFG: SHERWIN WILLIAMS
COLOR: SW6709 GLEEFUL
LOCATION: CHILDREN'S NORTH WALL ACCENT

PT-6
MFG: PPG
COLOR: PPG1193-5 CORAL SERENADE
LOCATION: TBD - ACCENT - CHILDREN'S

PT-7
MFG: PPG
COLOR: PPG1166-7 DARING INDIGO
LOCATION: STUDY ROOM ACCENT

PT-8
MFG: SHERWIN WILLIAMS
COLOR: SW7757 HIGH REFLECTIVE WHITE
LOCATION: GYP CEILINGS

ACOUSTIC CEILING TILE (ACT)

ACT-1:
MFG: ARMSTRONG
PRODUCT: ULTIMA HIGH-NRC 9/16" BEVELED TEGULAR #1942
COLOR: WHITE
SIZE: 24" X 24" X 7/8"
GRID: 9/16" SUPRAFINE, WHITE
LOCATION: PUBLIC COLLECTION AREAS, MEETING

ACT-2:
MFG: ARMSTRONG
PRODUCT: MESA 9/16" BEVELED TEGULAR #687
COLOR: WHITE
SIZE: 24" X 24" X 3/4"
GRID: 9/16" SUPRAFINE, WHITE
LOCATION: STAFF AREAS

GROUT (GT)

GT-1
MFG.: MAPEI
COLOR: GRAY 09
LOCATION: USE W/ CT-1
NOTE: COLOR MATCH CAULK AT INSIDE CORNERS

GT-2
MFG.: MAPEI
COLOR: ALABASTER 01
LOCATION: USE W/ CT-2, CT-3
NOTE: COLOR MATCH CAULK AT INSIDE CORNERS

HIGH IMPACT WALLCOVERING (HIW)

HIW-1
MFG: C/S ACROVYN
STYLE: .040" 4000 WALLCOVERING
COLOR: PEARL #934
TEXTURE: SUEDE
HEIGHT: AS INDICATED ON ELEVATIONS
LOCATION: JANITOR

CORNER GUARD (CG)

CG-1
MFG: C/S ACROVYN
STYLE: 2" LEG STAINLESS STEEL, CO-8
COLOR: 304 STAINLESS STEEL ALLOY
TEXTURE: #4 SATIN
HEIGHT: 48"H
LOCATION: REFER TO FINISH PLAN

WINDOW TREATMENT (WT)

WT-1:
TYPE: SINGLE ROLLER SHADE - REVERSE ROLL (MOTORIZED)
MFG: MECHOSHADE
STYLE: ELECTRO 2 & WHISPERSHADE IQ MOTOR
INSTALL: SURFACE WALL MOUNT W/ SNAPLOCK FASCIA
ACCESSORIES: 1Q 5 BUTTON SWITCH
CLOTH SERIES: THERMOVEIL 1500 SERIES 3% OPEN
CLOTH COLOR: 1513 GREY
FASCIA COLOR: TBD
LOCATION: REFER TO REFLECTED CEILING PLAN

WT-2:
TYPE: SINGLE ROLLER SHADE (MANUAL)
MFG: MECHOSHADE
STYLE: MECHO 5
INSTALL: INSIDE MOUNT W/ SNAPLOCK FASCIA
CLOTH SERIES: THERMOVEIL 1500 SERIES 3% OPEN
CLOTH COLOR: 1513 GREY
FASCIA COLOR: TBD
LOCATION: REFER TO REFLECTED CEILING PLAN

WT-3:
TYPE: SINGLE ROLLER SHADE (MANUAL)
MFG: MECHOSHADE
STYLE: MECHO 5
INSTALL: SURFACE MOUNT W/ SNAPLOCK FASCIA
CLOTH SERIES: THERMOVEIL 1500 SERIES 3% OPEN
CLOTH COLOR: 1513 GREY
FASCIA COLOR: TBD
LOCATION: REFER TO REFLECTED CEILING PLAN

WOODWORK FINISH LEGEND

WOOD STAIN TYPE - COLORS (WD)

ALL STAIN COLOR(S) TO MATCH ARCHITECT'S CONTROL SAMPLE

WD-1
SPECIES: SELECT WHITE MAPLE
CUT: PLAIN SLICED
STAIN COLOR: CUSTOM, MATCH PL-1

SOLID SURFACE (SSM)

SSM-1
MFG: LG HI-MACS
COLOR: G554 URBAN CONCRETE
LOCATION: RESTROOMS, BREAKROOM

PLASTIC LAMINATE (PLAM)

PL-1
MFG: FORMICA
COLOR: 6402-43 THERMO WALNUT
FINISH: ARTISAN
LOCATION: GENERAL MILLWORK

PL-2
MFG: WILSONART
COLOR: D25-60 ATLANTIS
FINISH: MATTE
LOCATION: DISPLAY MILLWORK

PL-3
MFG: WILSONART
COLOR: Y0676-60 SNOW GEO
FINISH: MATTE
LOCATION: DISPLAY MILLWORK

PL-4
MFG: DECOTONE SURFACES
COLOR: MET-MT518 COPPER MATTE
FINISH: MATTE
LOCATION: DISPLAY MILLWORK

PL-5
MFG: WILSONART
COLOR: 13099-60 ASTER
FINISH: MATTE
LOCATION: CHILDREN'S MILLWORK

PL-6
MFG: FORMICA
COLOR: 8235-PX SOLAR ORANGE
FINISH: PLEX
LOCATION: CHILDREN'S MILLWORK

PL-7
MFG: ABET LAMINATI
COLOR: 1860 SAMOA
FINISH: SEI
LOCATION: CHILDREN'S MILLWORK

PL-8
MFG: ABET LAMINATI
COLOR: 441 VERDE CEDRO
FINISH: SEI
LOCATION: CHILDREN'S MILLWORK

RESIN PANEL (RP)

RP-1
MFG: 3FORM
MATERIAL: VARIA ECORESIN
PATTERN: ENSIGN
FRONT FINISH: SANDSTONE
BACK FINISH: SANDSTONE
GAUGE: 3/8"
NOTE: POLISH AND EASE ALL EXPOSED EDGES AND CORNERS
LOCATION: CHILDREN'S MILLWORK

TACK BOARD FABRIC (TBF)

TBF-1
MFG: MAHARAM
PATTERN: MESSENGER
COLOR: 063 SQUALL
LOCATION: STAFF

METAL MESH (MSH)

MSH-1
REFER TO PROJECT MANUAL

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Revisions:

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1	02/07/2025	Permit Comment

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FINISH SCHEDULE

A8.00

SHEET 84 OF 179

22057

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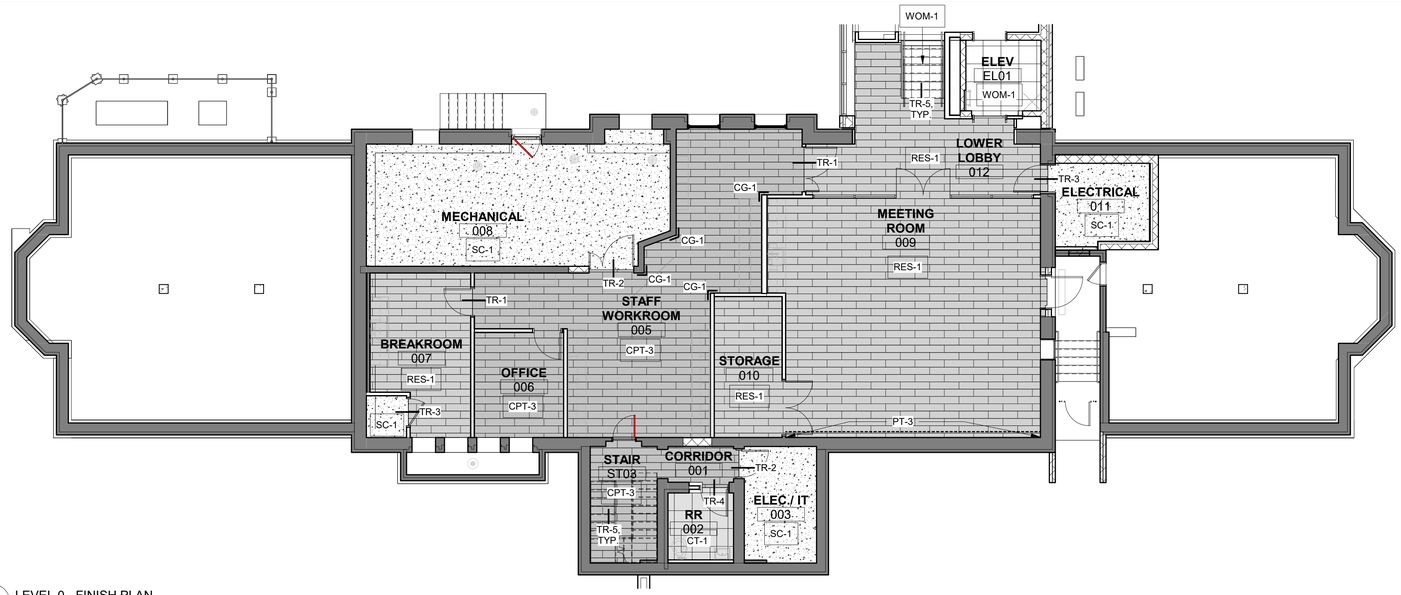
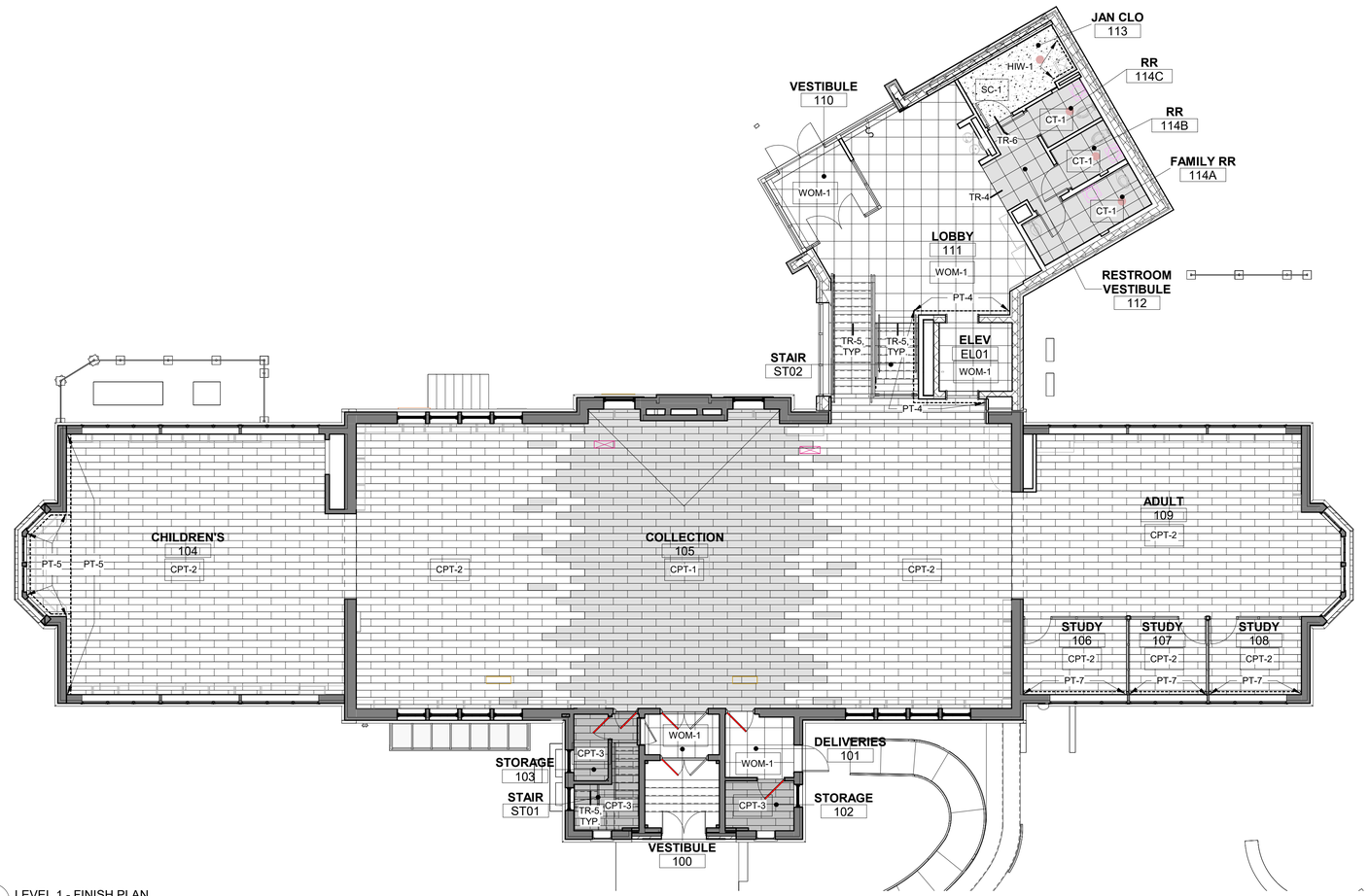


2 A8.01 LEVEL 0 - FINISH PLAN
1/8" = 1'-0"



1 A8.01 LEVEL 1 - FINISH PLAN
1/8" = 1'-0"

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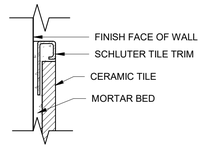
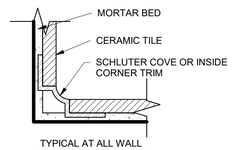
11. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILING TO BE PAINTED, PT-8
12. ALL EXPOSED STEEL TO BE PAINTED.
13. ALL ETR TRIMWORK, WALL BASE, MOULDING, WALL PANELING, DOORS, STAIR RAILING, HANDRAIL, AND STAIR STRINGER TO BE PAINTED PT-2.
14. ALL NEW TO MATCH EXISTING WALL BASE AND TRIM TO BE PAINTED PT-2, U.N.O.
15. EXISTING TO REMAIN WALLS TO BE PATCHED, SKIMCOATED, OR OTHERWISE REPAIRED TO AS NEW CONDITION. VERIFY EXTENT OF NECESSARY REPAIRS IN FIELD.

SYMBOL LEGEND

- CARPET: CPT-1
- CARPET: CPT-2
- CARPET: CPT-3
- WALK OFF MAT: WOM-1
- RESILIENT: RES-1
- CERAMIC TILE: CT-1
- SEALED CONCRETE: SC-1

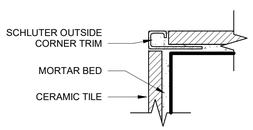


5 A8.01 DETAIL - TYPICAL WALL TILE EDGE
6" = 1'-0"



TYPICAL AT ALL WALL BASE & INSIDE CORNERS

4 A8.01 DETAIL - TYPICAL TILE COVE
6" = 1'-0"



TYPICAL AT ALL WALL OUTSIDE CORNERS

3 A8.01 DETAIL - TYPICAL TILE CORNER
6" = 1'-0"

PROJECT NORTH TRUE NORTH

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FINISH PLANS

A8.01
SHEET 85 OF 179
22057

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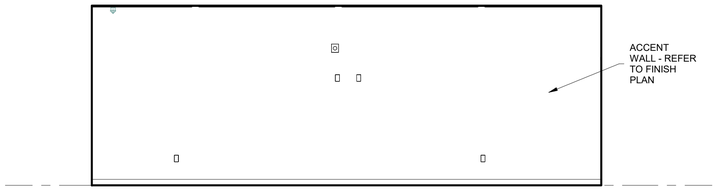
INTERIOR ELEVATIONS GENERAL NOTES

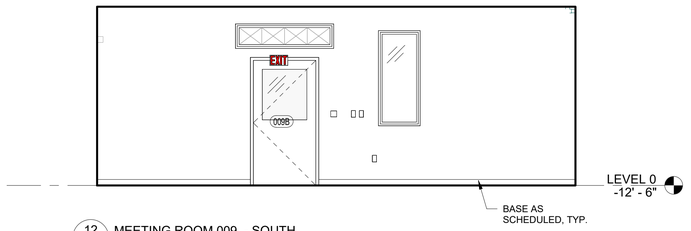
1 SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2 ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3 PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4 ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

INTERIOR ELEVATIONS LEGEND

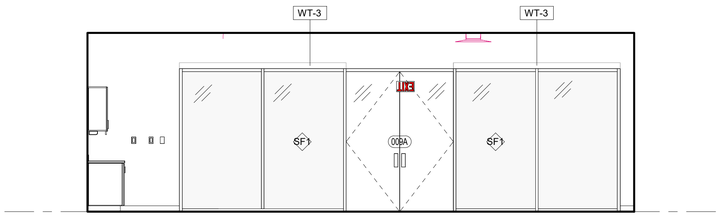
(T) INDICATES LOCATION OF TEMPERED GLAZING
◇T INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION
MB-XX INDICATES LOCATION OF MARKER BOARD. SEE A8.00 FOR FURTHER INFORMATION
TB-XX INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION



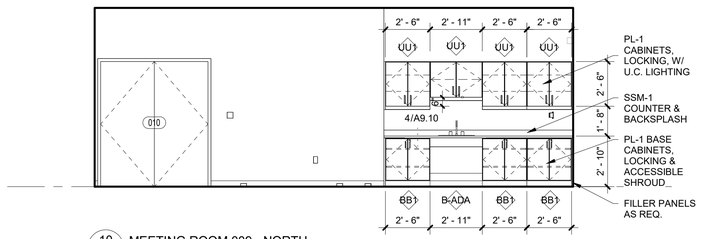
13 A8.02 MEETING ROOM 009 - WEST
1/4" = 1'-0"



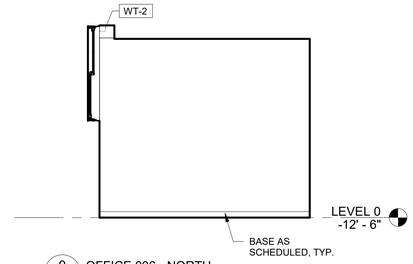
12 A8.02 MEETING ROOM 009 - SOUTH
1/4" = 1'-0"



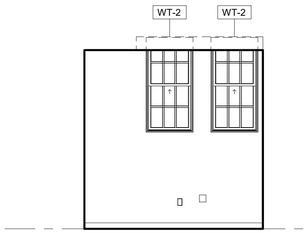
11 A8.02 MEETING ROOM 009 - EAST
1/4" = 1'-0"



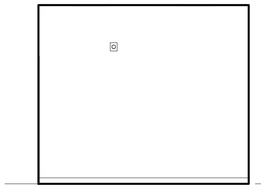
10 A8.02 MEETING ROOM 009 - NORTH
1/4" = 1'-0"



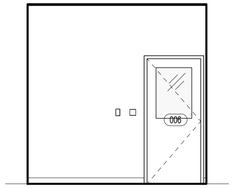
9 A8.02 OFFICE 006 - NORTH
1/4" = 1'-0"



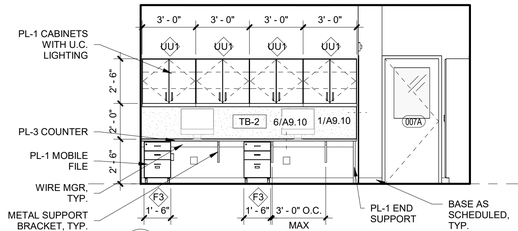
8 A8.02 OFFICE 006 - WEST
1/4" = 1'-0"



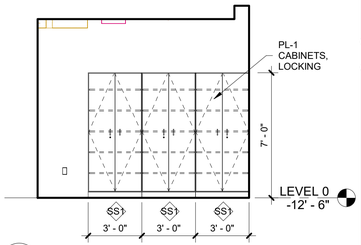
7 A8.02 OFFICE 006 - SOUTH
1/4" = 1'-0"



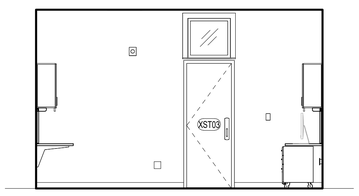
6 A8.02 OFFICE 006 - EAST
1/4" = 1'-0"



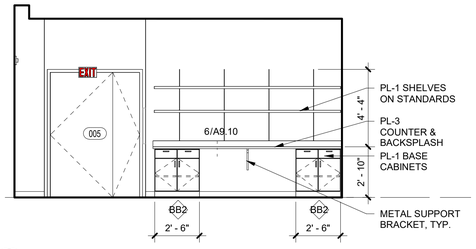
5 A8.02 STAFF WORKROOM 005 - NORTH
1/4" = 1'-0"



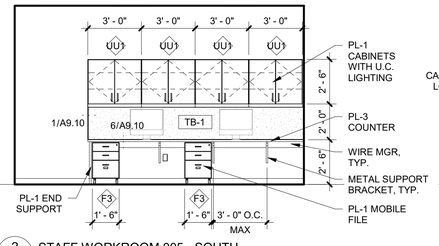
14 A8.02 STAFF WORKROOM 005 - NORTH 2
1/4" = 1'-0"



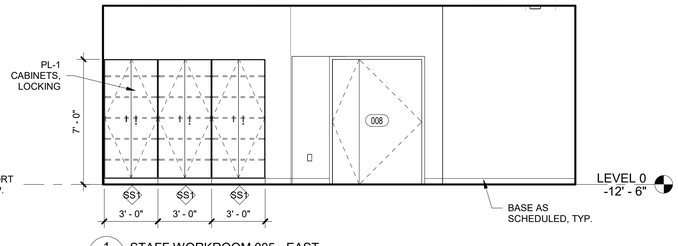
4 A8.02 STAFF WORKROOM 005 - WEST
1/4" = 1'-0"



3 A8.02 STAFF WORKROOM 005 - SOUTH
1/4" = 1'-0"



2 A8.02 STAFF WORKROOM 005 - SOUTH
1/4" = 1'-0"



1 A8.02 STAFF WORKROOM 005 - EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

A8.02
SHEET 86 OF 179
22057

INTERIOR ELEVATIONS GENERAL NOTES

1 SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2 ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3 PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4 ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

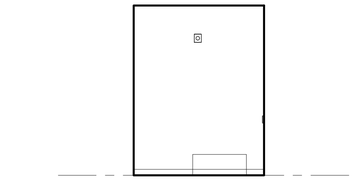
INTERIOR ELEVATIONS LEGEND

(T) INDICATES LOCATION OF TEMPERED GLAZING

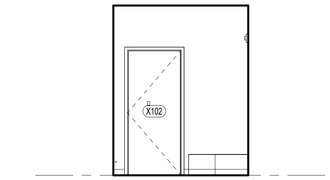
◇T INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION

MB-XX INDICATES LOCATION OF MARKER BOARD. SEE A8.00 FOR FURTHER INFORMATION

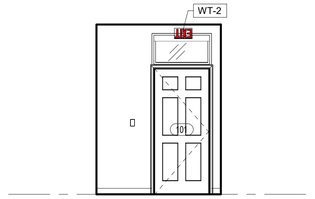
TB-XX INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION



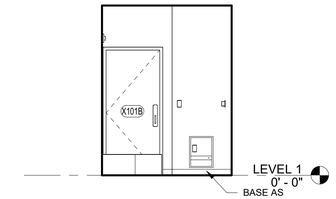
12 A8.03 DELIVERIES 101 - NORTH
1/4" = 1'-0"



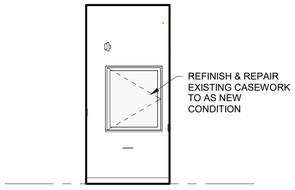
11 A8.03 DELIVERIES 101 - WEST
1/4" = 1'-0"



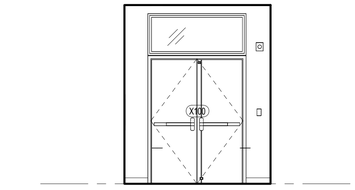
10 A8.03 DELIVERIES 101 - SOUTH
1/4" = 1'-0"



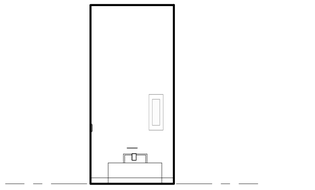
9 A8.03 DELIVERIES 101 - EAST
1/4" = 1'-0"



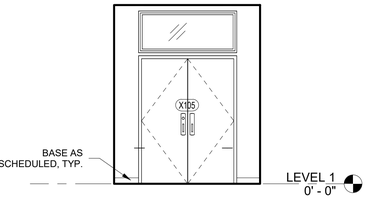
8 A8.03 VESTIBULE 100 - NORTH
1/4" = 1'-0"



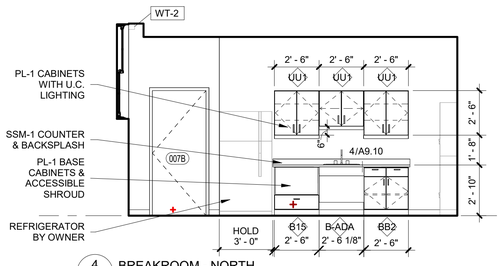
7 A8.03 VESTIBULE 100 - WEST
1/4" = 1'-0"



6 A8.03 VESTIBULE 100 - SOUTH
1/4" = 1'-0"

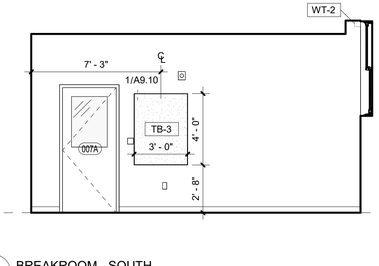


5 A8.03 VESTIBULE 100 - EAST
1/4" = 1'-0"

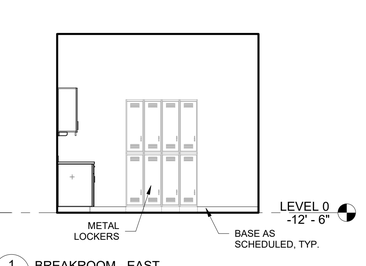


4 A8.03 BREAKROOM - NORTH
1/4" = 1'-0"

3 A8.03 BREAKROOM - WEST
1/4" = 1'-0"



2 A8.03 BREAKROOM - SOUTH
1/4" = 1'-0"



1 A8.03 BREAKROOM - EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

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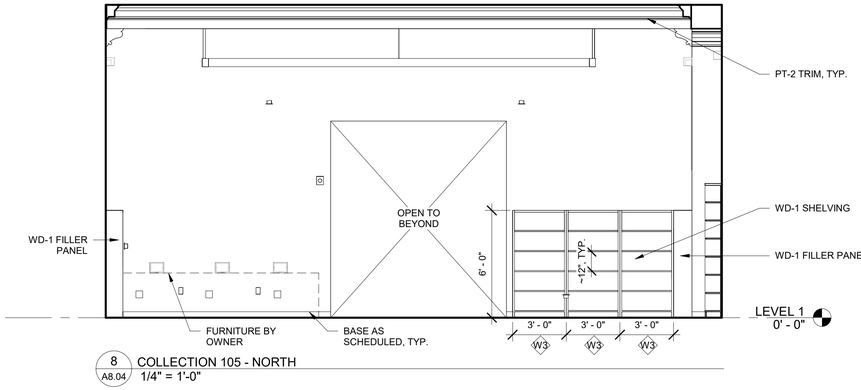

8 A8.04 COLLECTION 105 - NORTH
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

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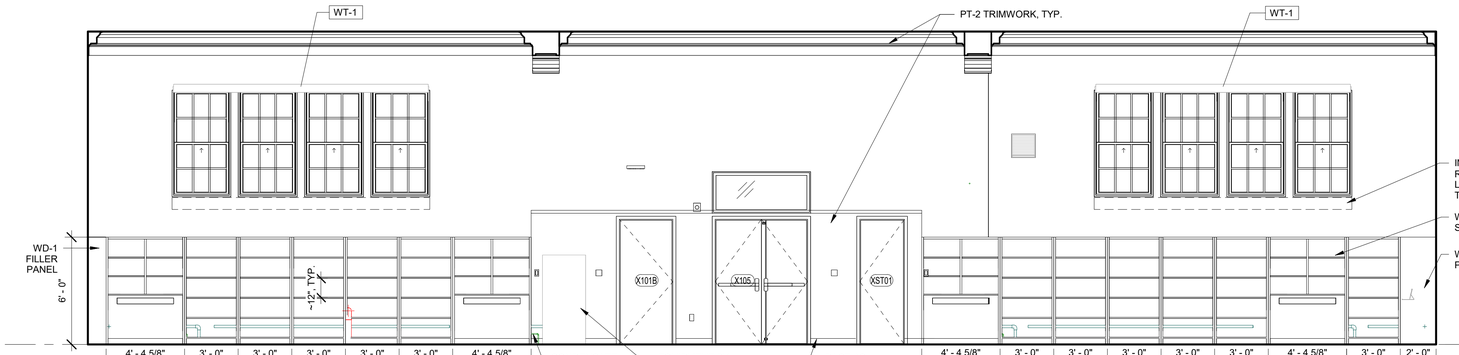
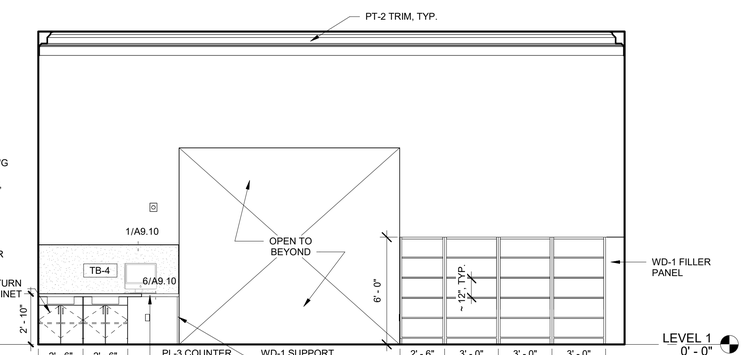
INTERIOR ELEVATIONS LEGEND

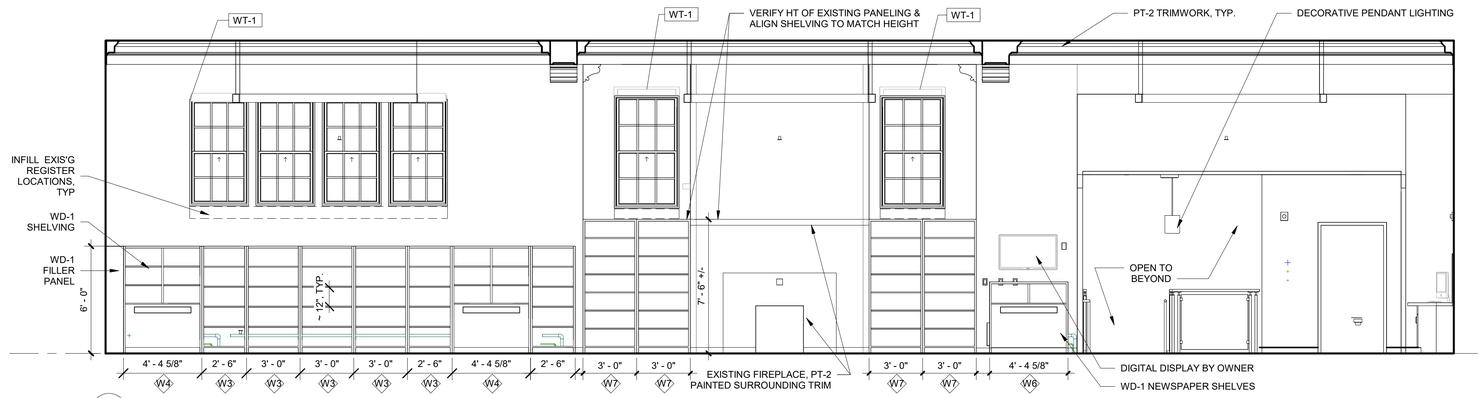
T — INDICATES LOCATION OF TEMPERED GLAZING
T — INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION
MB-XX — INDICATES LOCATION OF MARKER BOARD. SEE A8.00 FOR FURTHER INFORMATION
TB-XX — INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION



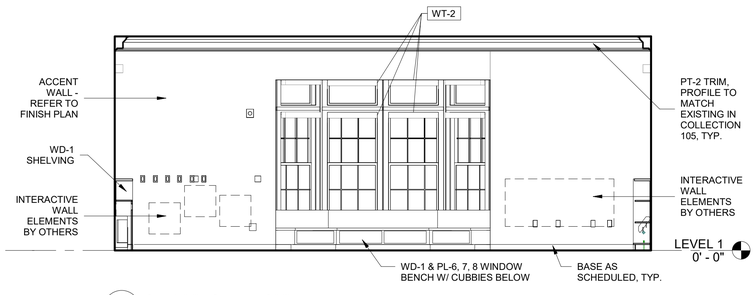
7 A8.04 COLLECTION 105 - WEST
1/4" = 1'-0"



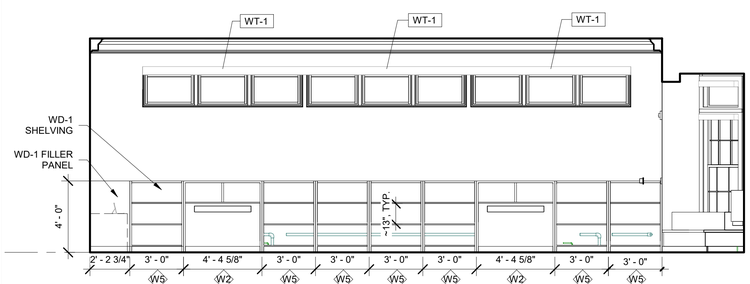
6 A8.04 COLLECTION 105 - SOUTH
1/4" = 1'-0"



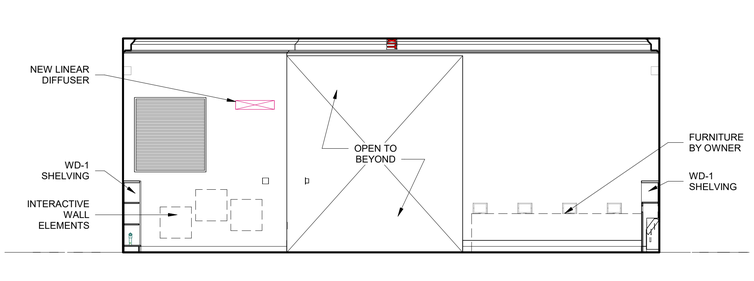
5 A8.04 COLLECTION 105 - EAST
1/4" = 1'-0"



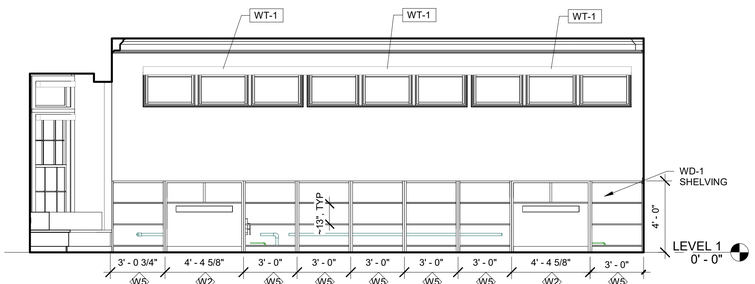
4 A8.04 CHILDREN'S 104 - NORTH
1/4" = 1'-0"



3 A8.04 CHILDREN'S 104 - WEST
1/4" = 1'-0"



2 A8.04 CHILDREN'S 104 - SOUTH
1/4" = 1'-0"



1 A8.04 CHILDREN'S 104 - EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

A8.04
SHEET 88 OF 179
22057

INTERIOR ELEVATIONS GENERAL NOTES

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INTERIOR ELEVATIONS LEGEND

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(T)	INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION
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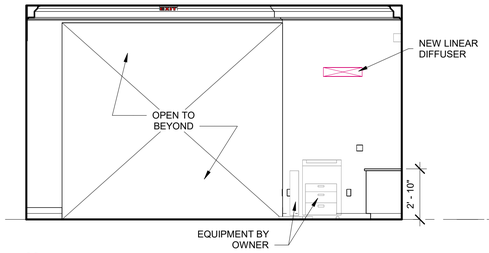
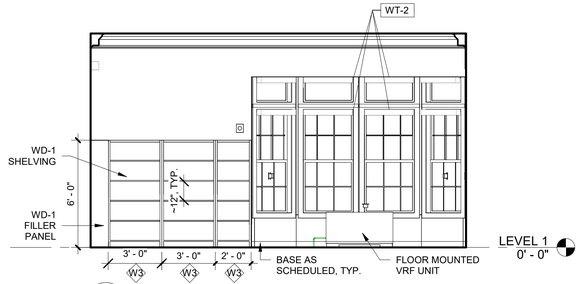
TB-XX	INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION



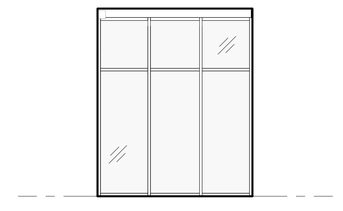
16 A8.05 ADULT 109 - NORTH
1/4" = 1'-0"

15 A8.05 ADULT 109 - WEST
1/4" = 1'-0"

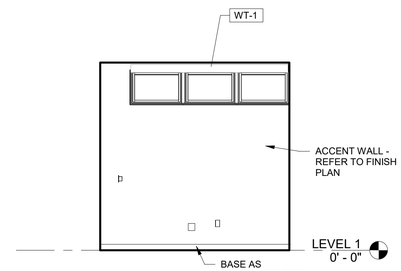


14 A8.05 ADULT 109 - SOUTH
1/4" = 1'-0"

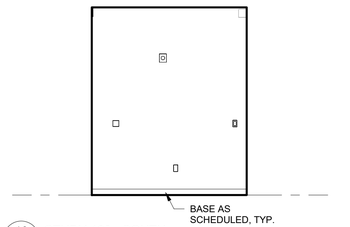
13 A8.05 ADULT 109 - EAST
1/4" = 1'-0"



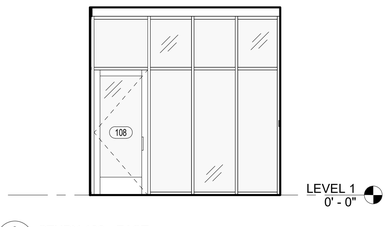
12 A8.05 STUDY 108 - NORTH
1/4" = 1'-0"



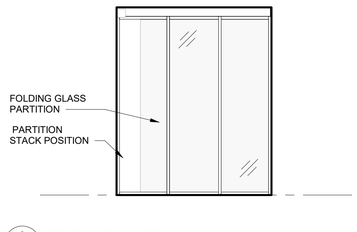
11 A8.05 STUDY 108 - WEST
1/4" = 1'-0"



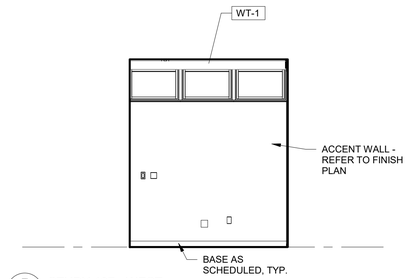
10 A8.05 STUDY 108 - SOUTH
1/4" = 1'-0"



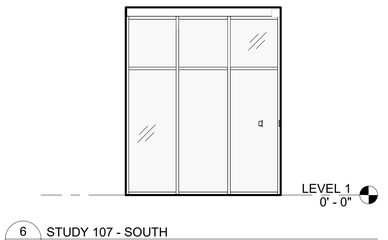
9 A8.05 STUDY 108 - EAST
1/4" = 1'-0"



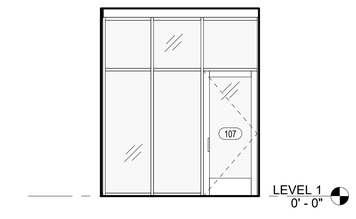
8 A8.05 STUDY 107 - NORTH
1/4" = 1'-0"



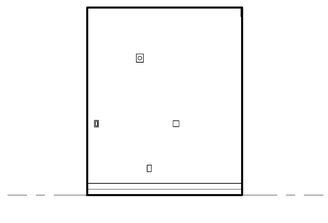
7 A8.05 STUDY 107 - WEST
1/4" = 1'-0"



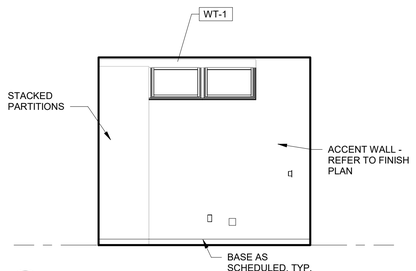
6 A8.05 STUDY 107 - SOUTH
1/4" = 1'-0"



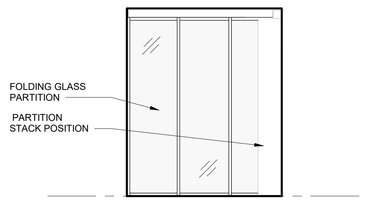
5 A8.05 STUDY 107 - EAST
1/4" = 1'-0"



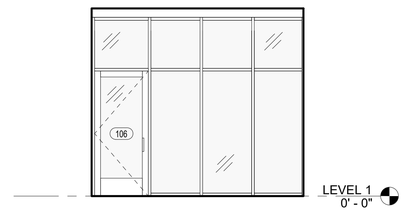
4 A8.05 STUDY 106 - NORTH
1/4" = 1'-0"



3 A8.05 STUDY 106 - WEST
1/4" = 1'-0"



2 A8.05 STUDY 106 - SOUTH
1/4" = 1'-0"



1 A8.05 STUDY 106 - EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

A8.05
SHEET 89 OF 179
22057

2/7/2025 10:03:40 AM

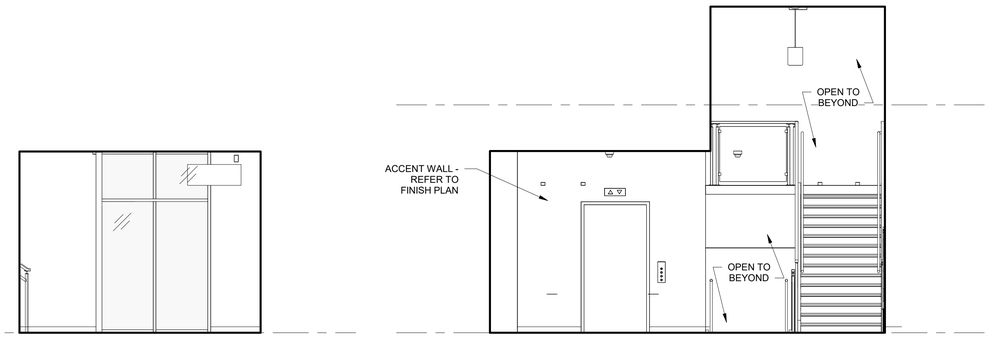
INTERIOR ELEVATIONS GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4. ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

INTERIOR ELEVATIONS LEGEND

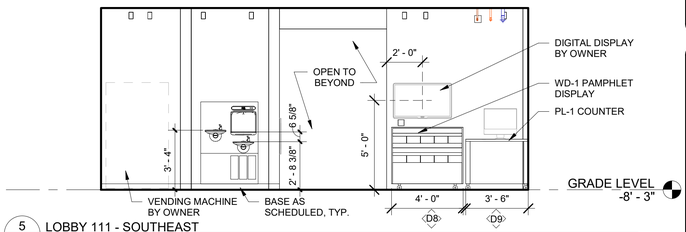
- (T) INDICATES LOCATION OF TEMPERED GLAZING
- ◇T◇ INDICATES LOCATION OF CASEWORK. SEE A9 SERIES FOR FURTHER INFORMATION
- MB-XX INDICATES LOCATION OF MARKER BOARD. SEE A8.00 FOR FURTHER INFORMATION
- TB-XX INDICATES LOCATION OF TACK BOARD. SEE A8.00 FOR FURTHER INFORMATION

8 A8.06 LOBBY 111 - NORTHEAST
1/4" = 1'-0"

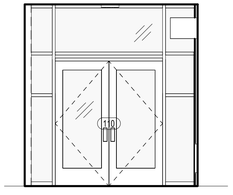


6 A8.06 LOBBY 111 - WEST
1/4" = 1'-0"

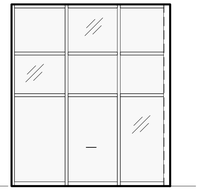
7 A8.06 LOBBY 111 - NORTHWEST
1/4" = 1'-0"



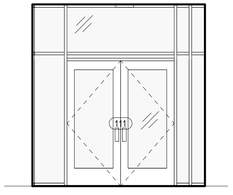
5 A8.06 LOBBY 111 - SOUTHEAST
1/4" = 1'-0"



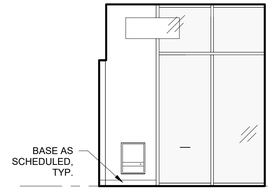
4 A8.06 VESTIBULE 110 - NORTHEAST
1/4" = 1'-0"



3 A8.06 VESTIBULE 110 - NORTHWEST
1/4" = 1'-0"



2 A8.06 VESTIBULE 110 - SOUTHWEST
1/4" = 1'-0"



1 A8.06 VESTIBULE 110 - SOUTHEAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

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SHEET 90 OF 179
22057

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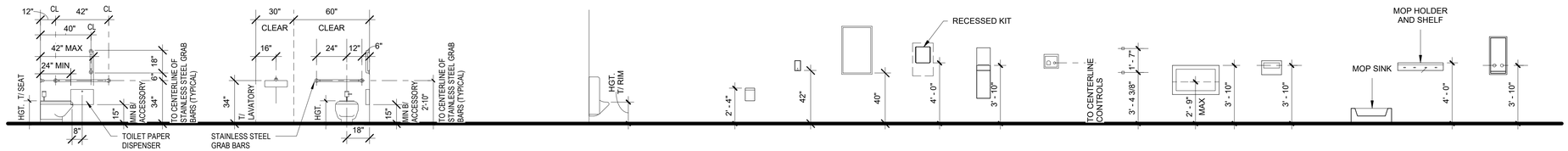
ACCESSORY ELEVATION LEGEND

NOTES:
PROVIDE SOLID BLOCKING FOR ALL ACCESSORY INSTALLATIONS.



WATER CLOSET WALL MOUNTED - ADULT
SIDE ELEVATION

WATER CLOSET WALL MOUNTED - ADULT
FRONT ELEVATION

NO.	DESCRIPTION	MTG. HEIGHT
WC-1	ACCESSIBLE	18"
WC-2	STANDARD	17"
WC-3	CHILDREN	14"

REFER TO PLUMBING DWGS

URINAL - WALL MOUNTED
SIDE ELEVATION

NO.	DESCRIPTION	MTG. HEIGHT
UR-1	ACCESSIBLE	17"
UR-2	STANDARD	24"

REFER TO PLUMBING DWGS

SANITARY NAPKIN DISPOSAL

SOAP DISPENSER

MIRROR

AUTOMATIC HAND DRYER

PAPER TOWEL DISPENSER/ TRASH BIN

HAND DRYER FRONT ELEVATION

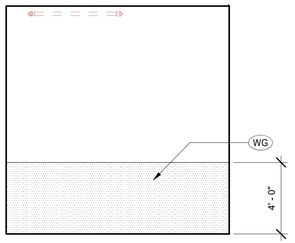
HOOKS

DIAPER CHANGING STATION

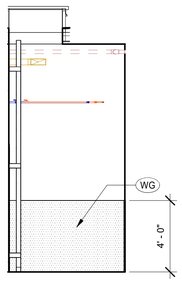
SEAT COVER DISPENSER

JANITOR, TYPICAL

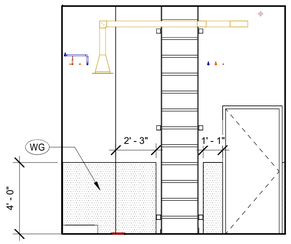
SANITARY NAPKIN/TAMPON VENDOR



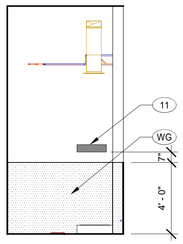
23 A8.10 JANITOR'S CLOSET ELEVATION N
1/4" = 1'-0"



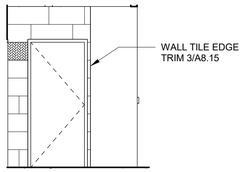
22 A8.10 JANITOR'S CLOSET ELEVATION W
1/4" = 1'-0"



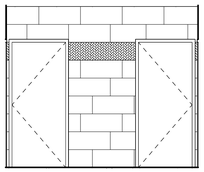
21 A8.10 JANITOR'S CLOSET ELEVATION S
1/4" = 1'-0"



20 A8.10 JANITOR'S CLOSET ELEVATION E
1/4" = 1'-0"

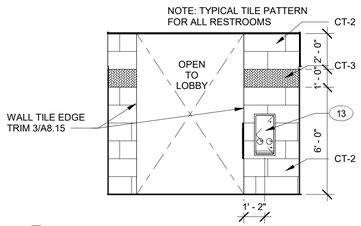


13 A8.10 TOILET VESTIBULE ELEVATION
1/4" = 1'-0"

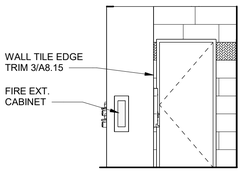


12 A8.10 TOILET VESTIBULE ELEVATION
1/4" = 1'-0"

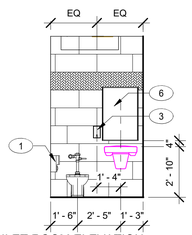
NOTE: TYPICAL TILE PATTERN FOR ALL RESTROOMS



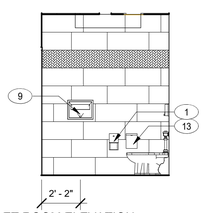
11 A8.10 TOILET VESTIBULE ELEVATION
1/4" = 1'-0"



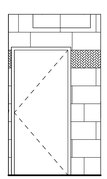
10 A8.10 TOILET VESTIBULE ELEVATION
1/4" = 1'-0"



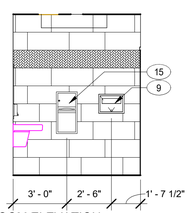
9 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"



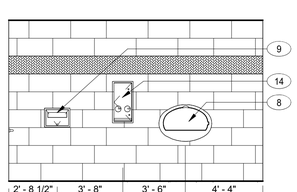
8 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"



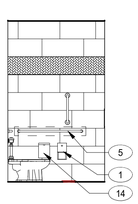
7 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"



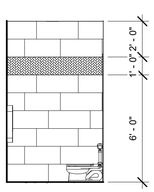
6 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"



5 A8.10 TOILET STALL ELEVATION
1/4" = 1'-0"

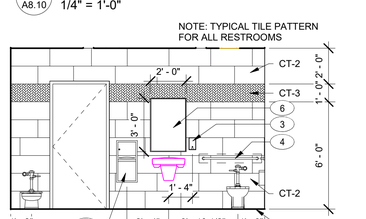


4 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"

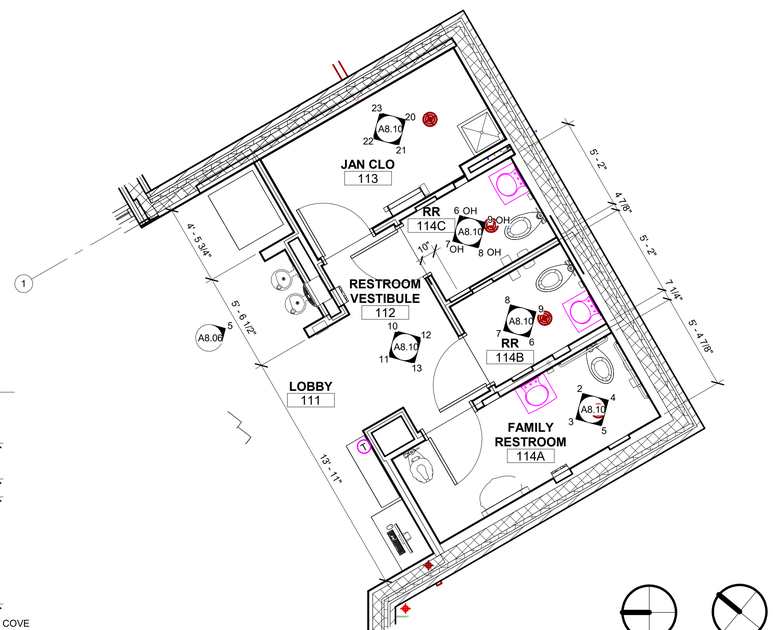


3 A8.10 TOILET ROOM ELEVATION
1/4" = 1'-0"

NOTE: TYPICAL TILE PATTERN FOR ALL RESTROOMS



2 A8.10 TOILET STALL ELEVATION
1/4" = 1'-0"



1 A8.10 RESTROOM PLAN
1/4" = 1'-0"

PROJECT NORTH

TRUE NORTH

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION WITH THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. PROVIDE BLOCKING FOR SUPPORT OF WALL ATTACHMENTS INCLUDING, BUT NOT LIMITED, TO WALL ACCESSORIES (HANDRAILS, BUMPERS, GUARDS, ETC), TOILET ACCESSORIES (GRAB BARS, DIAPER CHANGING STATIONS, ETC), BASE AND WALL CABINETS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL REQUIREMENTS FOR ATTACHMENTS.
3. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CABINETRY. REFER TO GENERAL WOODWORK NOTES FOR ADDITIONAL INFORMATION.
4. ALL WORK CONSIDERED NEW, UNLESS OTHERWISE NOTED.
5. SEE DETAILS 1, 2 &3 /A8.15 FOR METAL TILE TRIM TYPICAL FOR ALL RESTROOMS.

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4. ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

SYMBOL LEGEND

EXISTING CONSTRUCTION

NEW CONSTRUCTION

WALL PARTITION TYPE. REFER TO SHEET AX.X FOR ADDITIONAL INFORMATION.

# INDICATES TOILET ACCESSORIES FOR THIS DRAWING ONLY. SEE KEY NOTES LIST.

TOILET ROOM ACCESSORIES

1 TOILET TISSUE DISPENSER - SURFACE MOUNTED
3 WALL MOUNTED SOAP DISPENSER
4 36" GRAB BAR
5 42" GRAB BAR W/ 18" VERTICAL
6 MIRROR - SIZE AS INDICATED ON DRAWINGS
8 INFANT CHANGING TABLE - RECESS MOUNTED
9 TOILET SEAT COVER DISPENSER
11 UTILITY SHELF W/ MOP & BROOM HOLDERS & RAG HOOKS
13 SANITARY NAPKIN VENDER
14 SANITARY NAPKIN DISPOSAL - RECESSED
15 C-FOLD PAPER TOWEL HOLDER W/ TRASH BIN - RECESSED
WG WALL GUARD RIGID SHEET

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ARCHITECT License #15225
Steven S. Schwartzman
STATE OF MARYLAND

Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Architect under the laws of the State of Maryland. License number 15225, Expiration Date: 11/30/2025

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TOILET ROOMS - ENLARGED PLANS & ELEVATIONS

A8.10

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22057

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GENERAL NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION WITH THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. PROVIDE BLOCKING FOR SUPPORT OF WALL ATTACHMENTS INCLUDING, BUT NOT LIMITED, TO WALL ACCESSORIES (HANDRAILS, BUMPERS, GUARDS, ETC), TOILET ACCESSORIES (GRAB BARS, DIAPER CHANGING STATIONS, ETC), BASE AND WALL CABINETS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL REQUIREMENTS FOR ATTACHMENTS.
3. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CABINETRY. REFER TO GENERAL WOODWORK NOTES FOR ADDITIONAL INFORMATION.
4. ALL WORK CONSIDERED NEW, UNLESS OTHERWISE NOTED.
5. SEE DETAILS 1, 2 &3 /A8.15 FOR METAL TILE TRIM TYPICAL FOR ALL RESTROOMS.

INTERIOR ELEVATIONS GENERAL NOTES

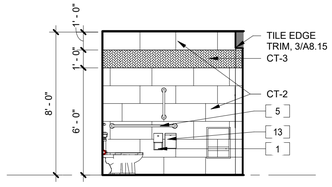
1. SEE ROOM FINISH SCHEDULE AND LEGEND FOR MATERIAL AND FINISH INFORMATION.
2. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPING, AND EXPOSED STEEL.
4. ALL TILED FLOORS AND WALLS IN RESTROOMS TO HAVE EPOXY GROUT.

SYMBOL LEGEND

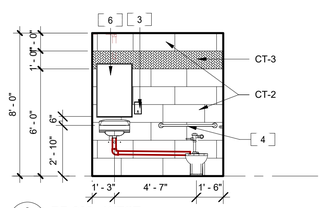
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- # — WALL PARTITION TYPE. REFER TO SHEET AX.X FOR ADDITIONAL INFORMATION.
- # — INDICATES TOILET ACCESSORIES FOR THIS DRAWING ONLY. SEE KEY NOTES LIST.

TOILET ROOM ACCESSORIES

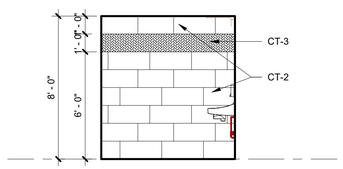
1	TOILET TISSUE DISPENSER - SURFACE MOUNTED
3	WALL MOUNTED SOAP DISPENSER
4	36" GRAB BAR
5	42" GRAB BAR W/ 18" VERTICAL
6	MIRROR - SIZE AS INDICATED ON DRAWINGS
13	SANITARY NAPKIN VENDER
15	C-FOLD PAPER TOWEL HOLDER W/ TRASH BIN - RECESSED



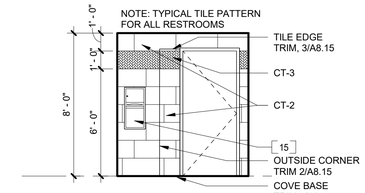
10 A8.11 RR 002 - NORTH
1/4" = 1'-0"



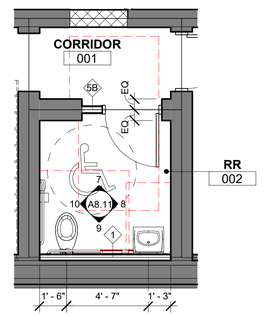
9 A8.11 RR 002 - WEST
1/4" = 1'-0"



8 A8.11 RR 002 - SOUTH
1/4" = 1'-0"



7 A8.11 RR 002 - EAST
1/4" = 1'-0"



6 A8.11 RESTROOM 002 PLAN
1/4" = 1'-0"

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STATE OF MARYLAND

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TOILET ROOMS - ENLARGED PLANS & ELEVATIONS

A8.11

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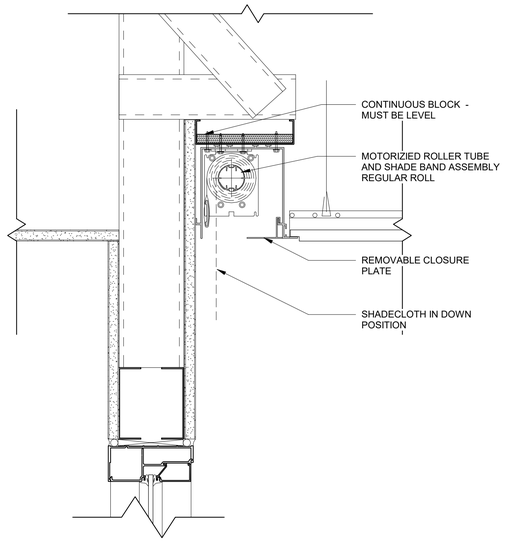
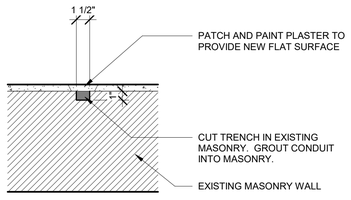
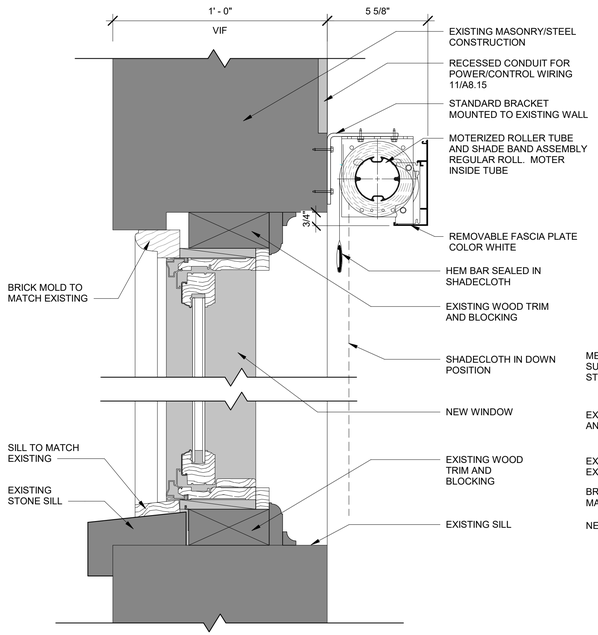


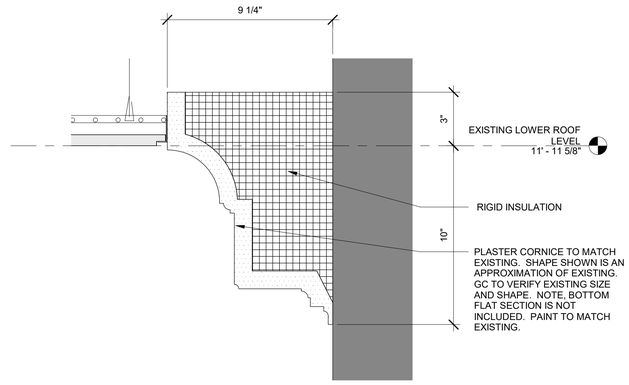
12 A8.15 WT-AUTO-SINGLE ROLL RECESSED
3" = 1'-0"



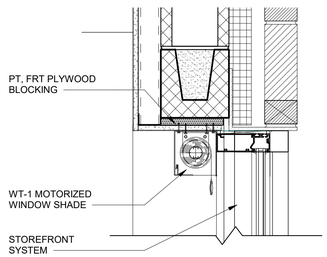
11 A8.15 CONCEALED CONDUIT DETAIL
1 1/2" = 1'-0"



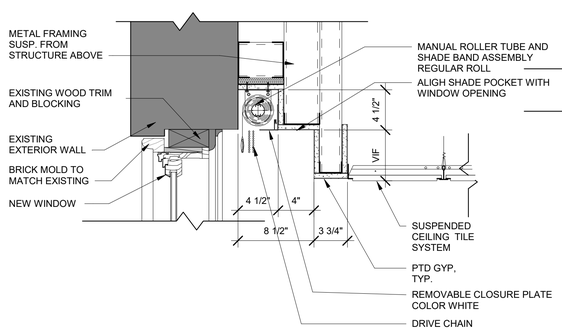
10 A8.15 DETAIL - TYPICAL WINDOW
3" = 1'-0"



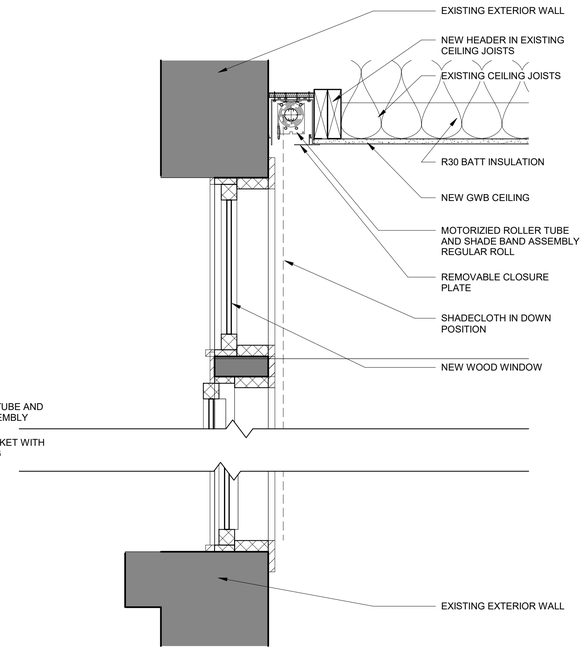
8 A8.15 NEW CORNICE DETAIL
3" = 1'-0"



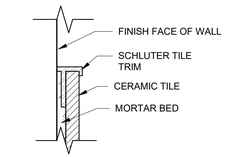
7 A8.15 DETAIL - STOREFRONT HEAD AT MOTORIZED SHADE
1 1/2" = 1'-0"



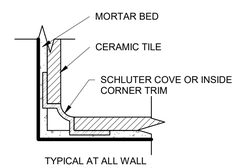
6 A8.15 DETAIL - STEPPED TRANSITION AT WINDOW
1 1/2" = 1'-0"



4 A8.15 DETAIL - BAY WINDOW
1 1/2" = 1'-0"

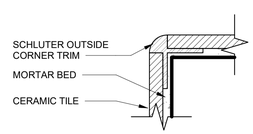


3 A8.15 DETAIL - TYPICAL WALL TILE EDGE
6" = 1'-0"



TYPICAL AT ALL WALL BASE & INSIDE CORNERS

2 A8.15 DETAIL - TYPICAL TILE COVE
6" = 1'-0"



TYPICAL AT ALL WALL OUTSIDE CORNERS

1 A8.15 DETAIL - TYPICAL TILE CORNER
6" = 1'-0"

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INTERIOR DETAILS

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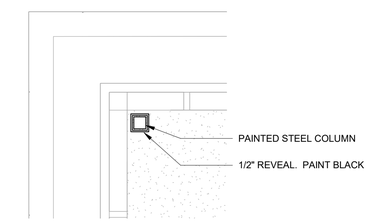
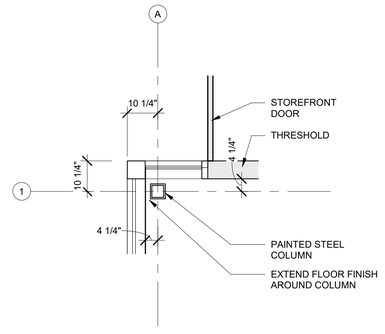


2 A8.16 COLUMN REFLECTED CEILING PLAN DETAIL
1/2" = 1'-0"



1 A8.16 COLUMN BASE DETAIL
1/2" = 1'-0"

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SHEET 94 OF 179

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MARKERBOARD/TACKBOARD SCHEDULE

TAG	LEVEL	TYPE	ROOM NAME	ROOM NUMBER	HEIGHT	WIDTH	PLACEMENT HEIGHT	Comments
TB-1	LEVEL 0	TACKBOARD	STAFF WORKROOM	005	1' - 11 1/2"	12' - 1"	2' - 8"	TBF-1
TB-2	LEVEL 0	TACKBOARD	STAFF WORKROOM	005	1' - 11 1/2"	12' - 1"	2' - 8"	TBF-1
TB-3	LEVEL 0	TACKBOARD	BREAKROOM	007	4' - 0"	3' - 0"	2' - 8"	TBF-1
TB-4	LEVEL 1	TACKBOARD	COLLECTION	105	2' - 11"	7' - 10 1/2"	2' - 8"	TBF-1

CABINETRY PLAN LEGEND

CASEWORK

ALL ITEMS WITHOUT SHADING ARE PART OF A SEPARATE FURNITURE PACKAGE AND ARE SHOWN FOR REFERENCE ONLY.

CABINETRY ABBREVIATIONS

MB	MARKER BOARD
PL	PLASTIC LAMINATE
SSM	SOLID SURFACE MATERIAL
TB	TACK BOARD
WD	WOOD

1 A9.00 LOWER LEVEL -CABINETRY, FURNITURE, & SHELVING PLAN
1/8" = 1'-0"

GENERAL WOODWORK NOTES:

REFER TO THE PROJECT MANUAL FOR COMPLETE SPECIFICATIONS.

A. GENERAL:
- ALL PLASTIC LAMINATE PRODUCTS SHALL MEET OR EXCEED THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS FOR CUSTOM GRADE, FLUSH OVERLAY CONSTRUCTION UNLESS NOTED OTHERWISE. REFER TO DRAWINGS AND PROJECT MANUAL FOR PRODUCT FINISHES.
- ALL FINISHED WOOD PRODUCTS SHALL MEET OR EXCEED THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS FOR PREMIUM GRADE, FLUSH OVERLAY CONSTRUCTION UNLESS NOTED OTHERWISE. REFER TO THE PROJECT MANUAL FOR WOOD SPECIES.
- ALL ARCHITECTURAL WOODWORK PRODUCTS SHALL USE THE 5mm HOLES @32mm o/c FRAMELESS CABINET SYSTEM UNLESS OTHERWISE NOTED.
- ALL COUNTER TOP SURFACES SHALL BE 1-1/4" MEDIUM DENSITY FIBERBOARD SUBSTRATE UNLESS NOTED OTHERWISE.
- ALL OUTSIDE COUNTERTOP CORNERS SHALL BE 1/4" RADIUSED UNLESS NOTED OTHERWISE.
- ALL WORK SURFACE SUPPORTS SHALL BE 1-1/4" THK. WOOD VENEER OR PLASTIC LAMINATE AS INDICATED IN ELEVATIONS.
- ALL CABINETS AND COUNTER TOPS ARE FINISHED AS INDICATED IN ELEVATIONS. FINISH ALL SURFACES TO BE EXPOSED TO VIEW, INTERIOR & EXTERIOR OF CABINETS.
- ALL SHELVES SHALL BE ADJUSTABLE, UNLESS OTHERWISE NOTED.
- CABINETRY TO BE FABRICATED TO FIT 'WALL-TO-WALL' WITH MINIMAL USE OF FILLERS. FILLERS ARE TO MATCH CABINETRY IN FINISH AND SPECIES.
- COORDINATE CABINETRY INSTALLATION WITH OTHER TRADES, I.E., ELECTRICAL, PLUMBING, AND MECHANICAL. CUT CABINETS, TOPS ETC.. AS REQUIRED FOR INSTALLATION OF ITEMS FURNISHED AND INSTALLED BY OTHER TRADES, I.E., SINKS, ELECTRIC OUTLETS, ETC.
- ALL HORIZONTAL WORK SURFACE JOINTS AT WALL WHERE NOT COVERED BY VERTICAL TACKBOARD OR BACKSPLASH, CLEAR CAULK AT INTERSECTION, UNLESS OTHERWISE NOTED. REFER TO DRAWINGS FOR DETAIL.
- PROVIDE WALL MOUNTED COUNTERTOP SUPPORTS AS REQUIRED WHERE COUNTER TOPS ARE SECURED TO WALLS. WHERE EXPOSED TO VIEW, FACTORY PRIMED STEEL COUNTERTOP SUPPORTS SHALL BE FIELD PAINTED TO MATCH ADJACENT WALL COLOR. (U.N.O.)
- ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO MANUFACTURING.

B. SURFACES/FINISHES:
- WOOD, WOOD VENEER, PLASTIC LAMINATE AND RESIN PANELS:
- COMPOSITE WOOD OR AGRIFIBER PRODUCTS MUST CONTAIN NO ADDED UREA-FORMALDEHYDE RESINS.
- ALL CABINETRY THIS PROJECT SHALL BE WOOD, WOOD VENEER, OR PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.
- ALL WOOD VENEER DOORS, SHELVING AND DRAWER EDGES SHALL HAVE MATCHING WOOD VENEER.
- ANY PLASTIC LAMINATE DOORS, SHELVING AND DRAWER EDGES SHALL HAVE MATCHING PVC (IF AVAILABLE) OR PLASTIC LAMINATE.
- BOTH SIDES OF WOOD VENEER DOORS AND SHELVES SHALL HAVE WOOD VENEER.
- BOTH SIDES OF PLASTIC LAMINATE DOORS AND SHELVES SHALL HAVE PLASTIC LAMINATE.
- ALL CABINET BOXES SHALL BE CONSTRUCTED OF 3/4" MELAMINE CLAD MEDIUM DENSITY PARTICLE BOARD UNLESS OTHERWISE NOTED.
- ALL EXPOSED SURFACES SHALL BE FINISHED TO MATCH BALANCE OF CABINET, UNLESS OTHERWISE NOTED.
- ALL CABINETRY INTERIOR SURFACES SHALL BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
- ALL TOE KICKS SHALL MATCH VERTICAL SURFACE FINISH UNLESS NOTED OTHERWISE.
- ALL WOOD EDGES SHALL BE SOLID HARDWOOD - NO EXCEPTIONS.
- SHELVING SHALL BE SOLID CORE LUMBER TO MATCH REMAINDER OF CASEWORK.

C. CONSTRUCTION:
- DRAWER BOTTOMS SHALL BE 1/4" PLYWOOD WITH WHITE VINYL/FOIL FINISH TO MATCH MELAMINE, OR 1/2" MELAMINE CLAD MEDIUM DENSITY PARTICLE BOARD. 1/2" BOTTOM MUST BE USED ON ALL DRAWERS OVER 24" WIDE. BOTTOM SHALL BE CAPTURED ON ALL SIDES.
- CLOSED CABINET BACKS SHALL BE 1/2" PLYWOOD WITH WHITE VINYL/FOIL FINISH TO MATCH MELAMINE AND 1 x 4 NAILERS OR 1/2" MELAMINE CLAD MEDIUM DENSITY PARTICLE BOARD WITH 1/2" BEVELED CLEATS.
- ADJUSTABLE SHELVES SHALL USE SOLID LUMBER CORE AND FINISHED TO MATCH INTERIOR UNLESS NOTED OTHERWISE. USE 5mm SHELF CLIPS FOR SHELF SUPPORT, UNLESS NOTED OTHERWISE.

D. HARDWARE:
- HARDWARE SHALL MEET OR EXCEED AMERICAN NATIONAL STANDARD FOR CABINET HARDWARE QUALITY LEVEL 2.
- REFER TO PROJECT MANUAL FOR ALL CABINETRY PULLS AND HARDWARE.
- CABINET DOOR HINGES SHALL BE CONCEALED "EUROPEAN" AND OPEN 120 DEGREES MINIMUM. HINGES SHALL HAVE CAM ADJUSTMENT, CLIP TOP.
- PROVIDE HANDLES ON ALL CABINET DOORS, DRAWERS, ETC., WHETHER INDICATED OR NOT.
- FILE DRAWERS, BOX DRAWERS AND PENCIL DRAWERS SHALL HAVE FULL EXTENSION SLIDES.
- LOAD BEARING CAPACITIES: REFER TO SPECS
- PROVIDE FITTED BARS FOR HANGING FILES FOR ALL FILE DRAWERS. VERIFY THAT FILES AND BARS FIT.
- KITCHEN CABINET DRAWERS SHALL HAVE WHITE EPOXY COATED SLIDES BY BLUM, GRASS OR MEPLA.
- INSTALL LABEL HOLDER ON ALL FILE DRAWERS AND ALL FLAT FILE DRAWERS.
- ALL DESK AND COMPUTER WORKSTATION ACCESS PANELS TO HAVE THUMB SCREWS.
- PROVIDE ALL CABINET DRAWERS AND DOORS WITH LOCKS, KEYED ALIKE, UNLESS OTHERWISE NOTED.

E. CLEARANCES/COORDINATION:
- VERIFY THAT BOTTOM OF WALL CABINETS CLEAR COMPUTER EQUIPMENT ON WORK SURFACE BELOW. COORDINATE WITH OWNER PRIOR TO FABRICATION OF ARCHITECTURAL WOODWORK.
- CONTRACTOR SHALL VERIFY SINK BASE CABINET SIZE WITH SINK. COORDINATE WITH PLUMBING CONTRACTOR.

F. ANCHORS:
- INSTALL BLOCKING FOR ALL THE CABINETRY, REFER TO ROUGH CARPENTRY SECTION 061000. COORDINATE WITH GENERAL CONTRACTOR.

G. GROMMETS:
- CONTRACTOR SHALL PROVIDE GROMMETS AT ALL COMPUTER AND PRINTER LOCATIONS AND WHERE INDICATED IN DRAWINGS. GROMMETS SHALL BE LOCATED IN FIELD WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

H. COORDINATION WITH OTHER TRADES:
- CABINETRY CONTRACTOR SHALL VERIFY AND COORDINATE ALL ASSOCIATED WORK. SHOP DRAWINGS SHALL ACKNOWLEDE AND INDICATE COORDINATED WORK FOR REVIEW BY ARCHITECT. THIS INCLUDES, BUT IS NOT LIMITED TO PIPING, PLUMBING FIXTURES, SWITCHES, ELECTRICAL AND TELE/DATA RECEPTACLES, UNDER CABINET LIGHTING, FIRE ALARM DEVICES.

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LOWER LEVEL - CABINETRY PLAN

A9.00
SHEET 95 OF 179

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MARKERBOARD/TACKBOARD SCHEDULE

TAG	LEVEL	TYPE	ROOM NAME	ROOM NUMBER	HEIGHT	WIDTH	PLACEMENT HEIGHT	Comments
TB-1	LEVEL 0	TACKBOARD	STAFF WORKROOM	005	1' - 11 1/2"	12' - 1"	2' - 8"	TBF-1
TB-2	LEVEL 0	TACKBOARD	STAFF WORKROOM	005	1' - 11 1/2"	12' - 1"	2' - 8"	TBF-1
TB-3	LEVEL 0	TACKBOARD	BREAKROOM	007	4' - 0"	3' - 0"	2' - 8"	TBF-1
TB-4	LEVEL 1	TACKBOARD	COLLECTION	105	2' - 11"	7' - 10 1/2"	2' - 8"	TBF-1

CABINETRY PLAN LEGEND

CASEWORK

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1 / A9.01 FIRST FLOOR -CABINETRY, FURNITURE, & SHELVING PLAN
1/8" = 1'-0"

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FIRST FLOOR - CABINETRY PLAN

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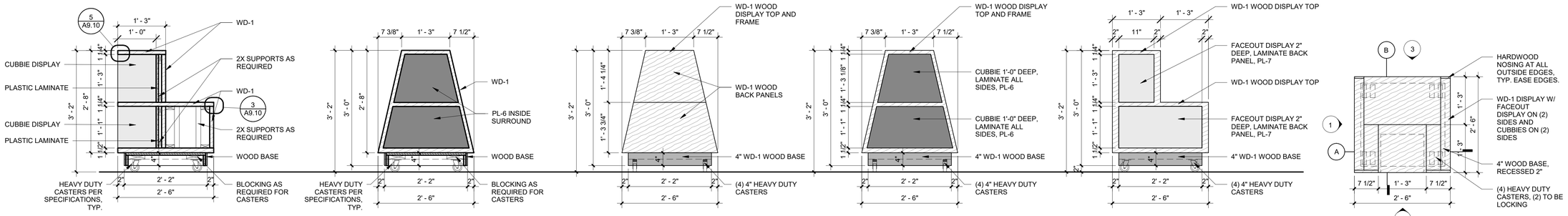
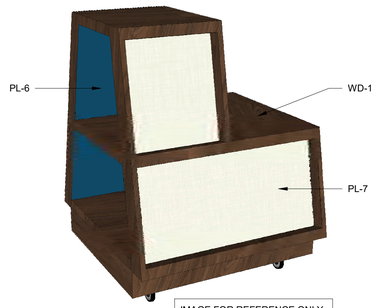
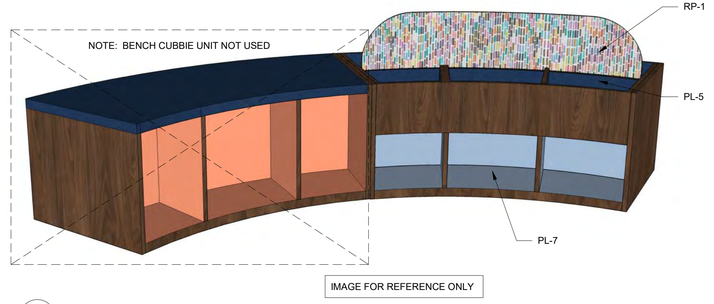


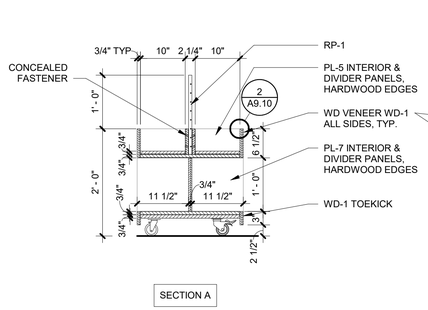
4 A9.02 DISPLAY D5 - MOBILE ANGLED DISPLAY
3/4" = 1'-0"

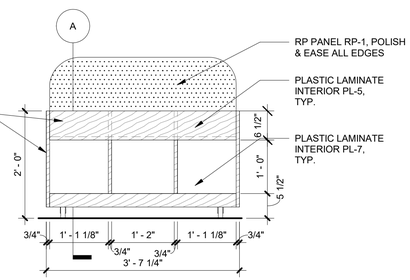


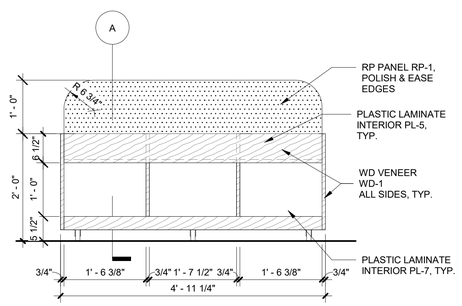
3 A9.02 IMAGE - D5 MOBILE DISPLAY
NTS

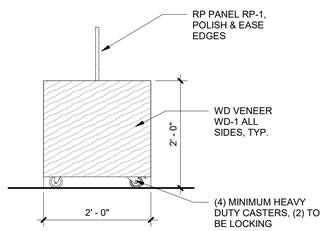


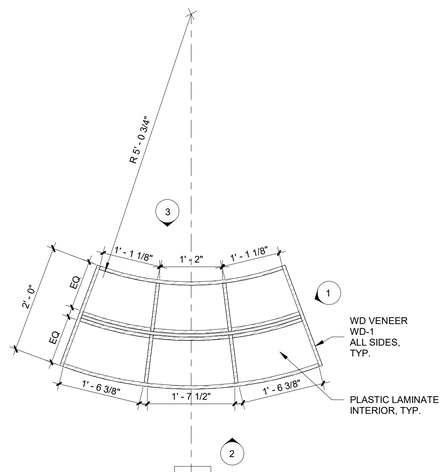
2 A9.02 IMAGE - BOOK BINS
NTS











1 A9.02 BOOK CUBBY & BIN 3
3/4" = 1'-0"

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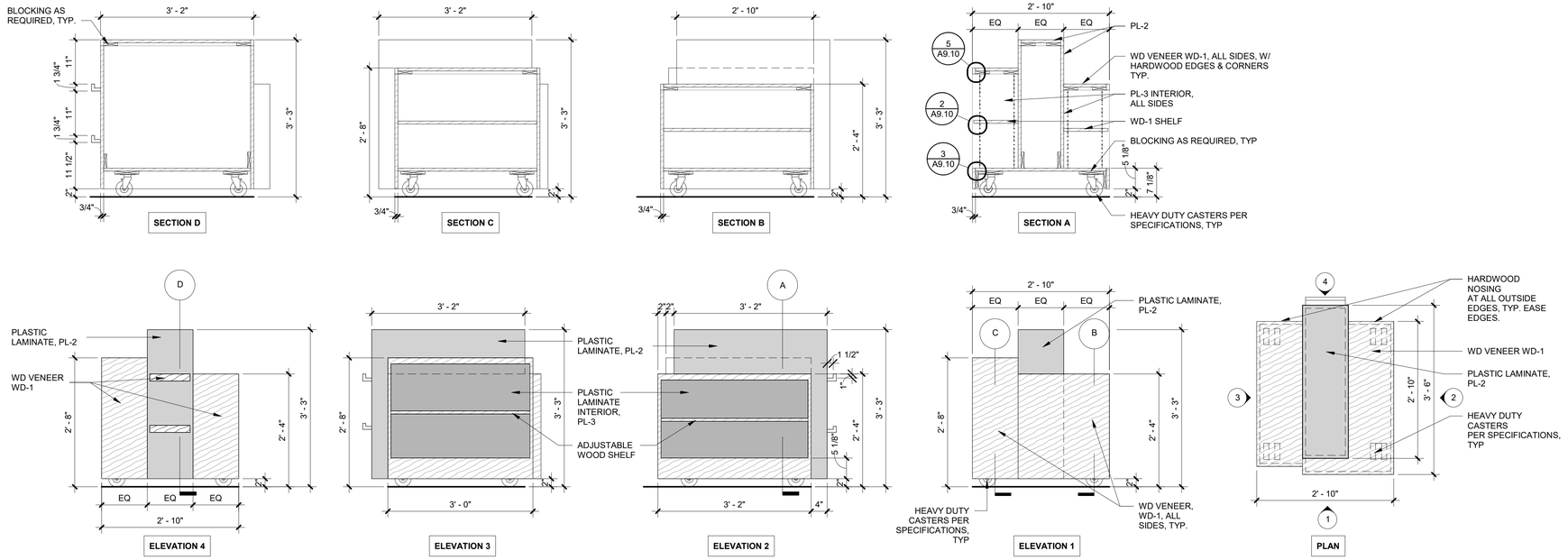
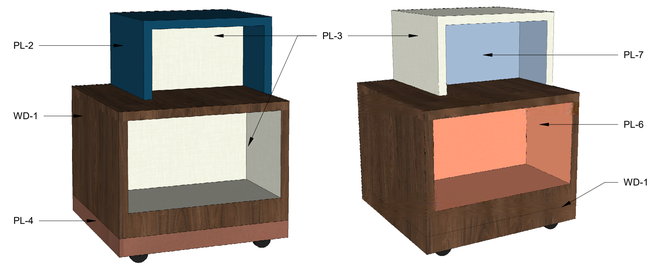
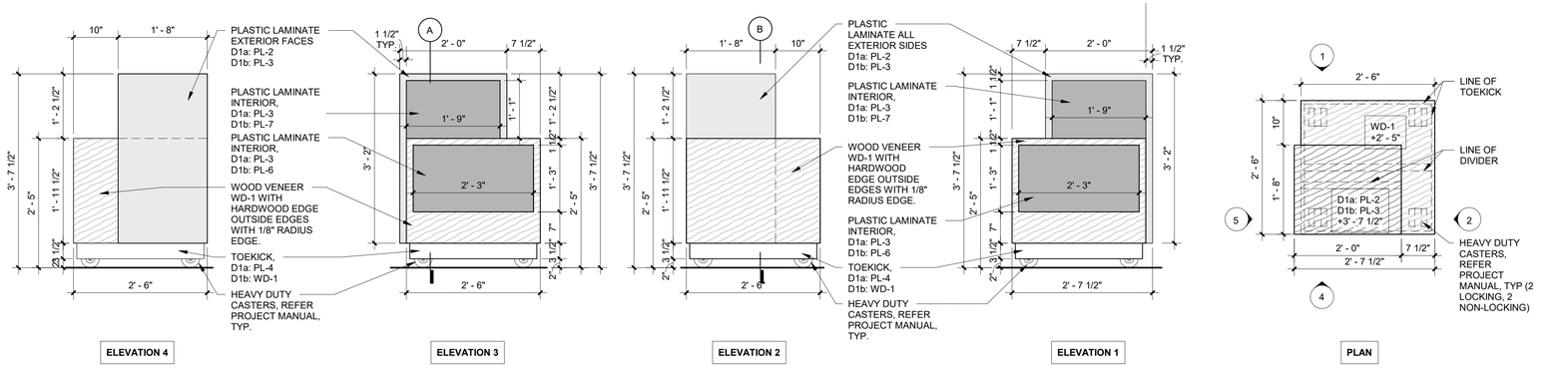
4 A9.03 IMAGE - D2 MOBILE DISPLAY
NTS



2 A9.03 DISPLAY D2 - MOBILE BOOK DISPLAY
3/4" = 1'-0"



3 A9.03 IMAGE - D1 MOBILE DISPLAY
NTS



1 A9.03 DISPLAY D1a & D1b - MOBILE BOOK DISPLAY
3/4" = 1'-0"

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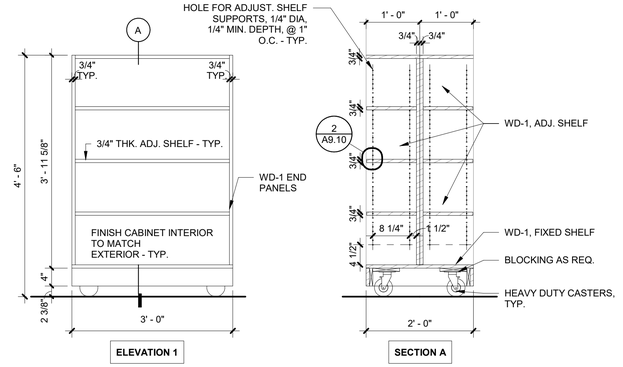
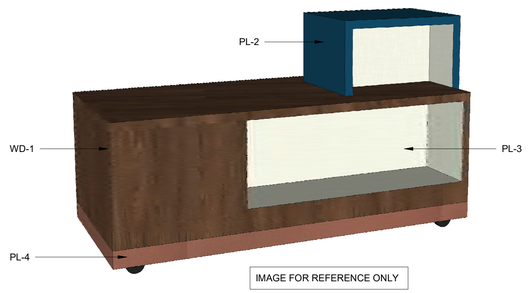
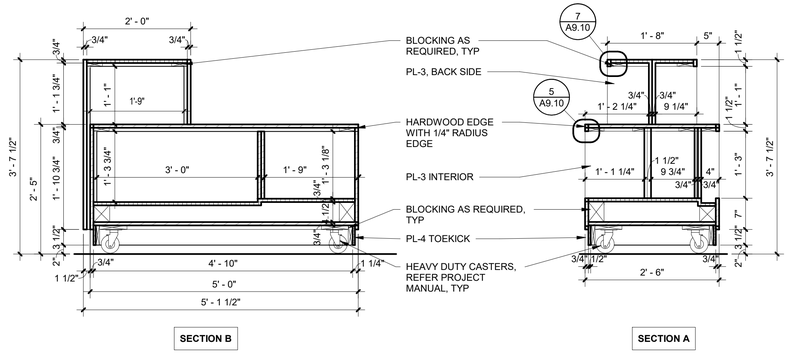
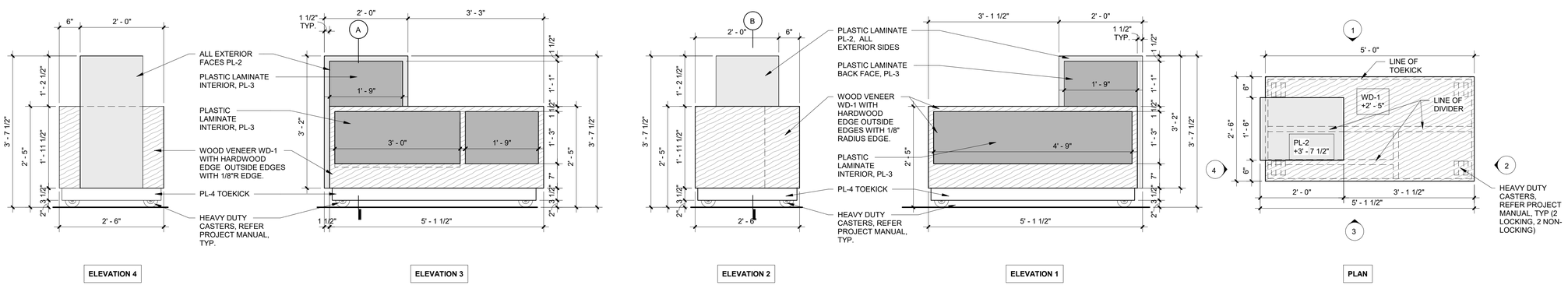


3 A9.04 DISPLAY D4 - MOBILE DF BOOKSHELF - 4 HIGH
3/4" = 1'-0"



2 A9.04 IMAGE - D3 MOBILE DISPLAY
NTS





1 A9.04 DISPLAY D3 - MOBILE CUBE TABLE DISPLAY
3/4" = 1'-0"

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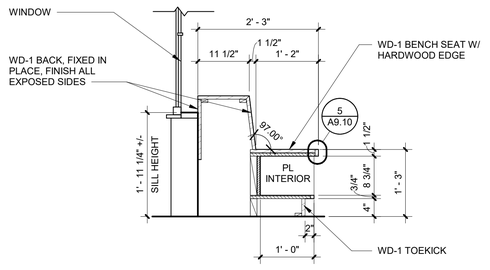
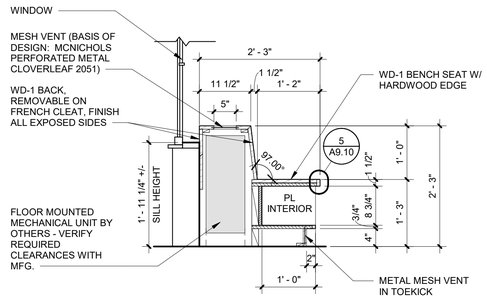
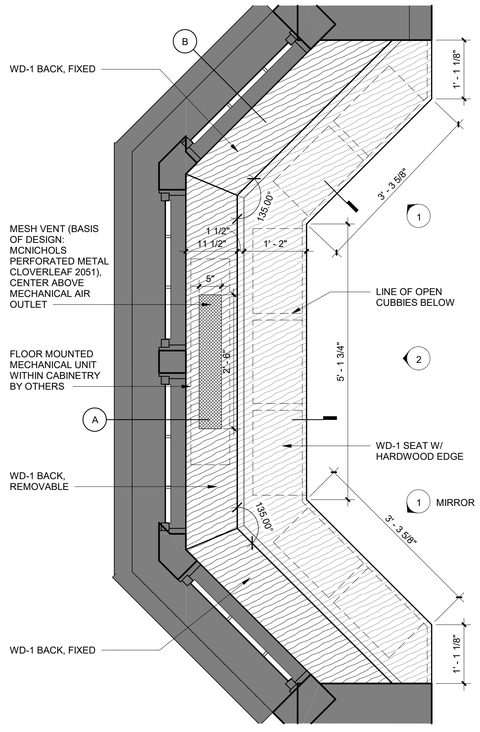


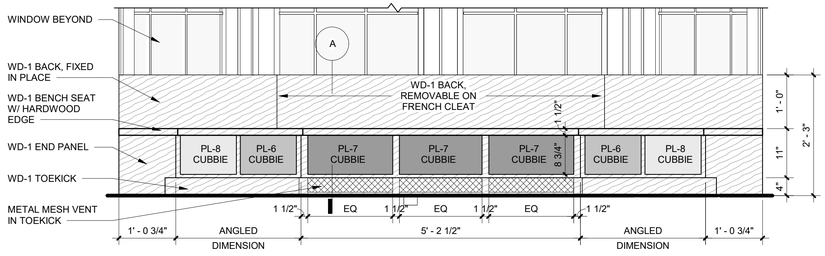
SECTION B



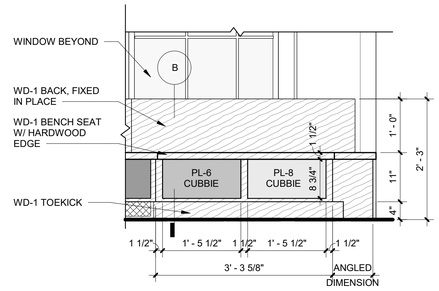
SECTION A



PLAN



ELEVATION 2



ELEVATION 1

1 A9.05 CHILDREN'S WINDOW BENCH
3/4" = 1'-0"

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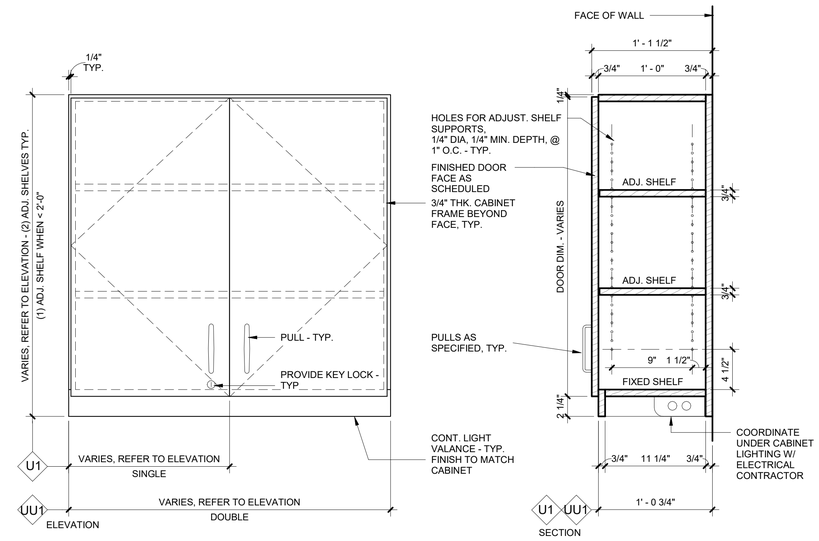
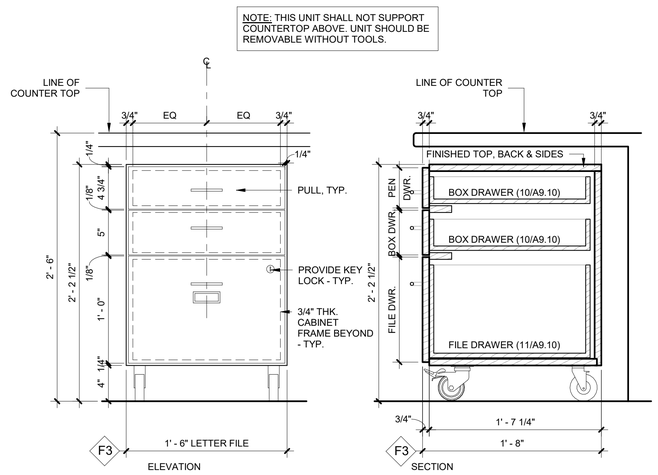
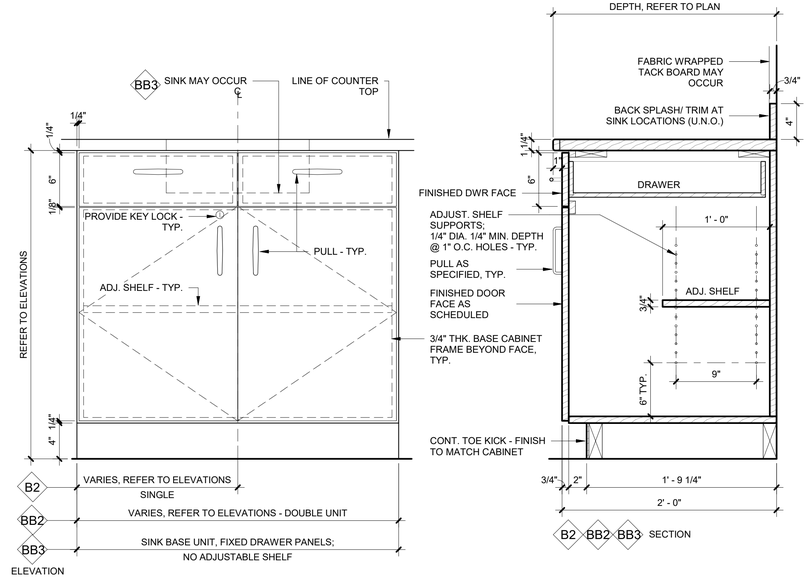


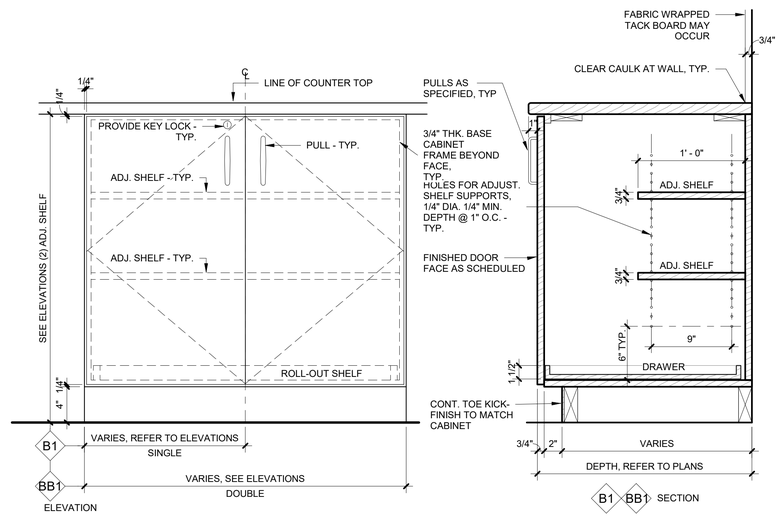
4 A9.06 UPPER - U1/UU1
1 1/2" = 1'-0"



3 A9.06 FILE - F3
1 1/2" = 1'-0"



2 A9.06 BASE - B2/BB2 & BB3
1 1/2" = 1'-0"



NOTE: ROLL OUT SHELF
ONLY AT LOCATIONS AS INDICATED ON ELEVATIONS

1 A9.06 BASE - B1/BB1
1 1/2" = 1'-0"

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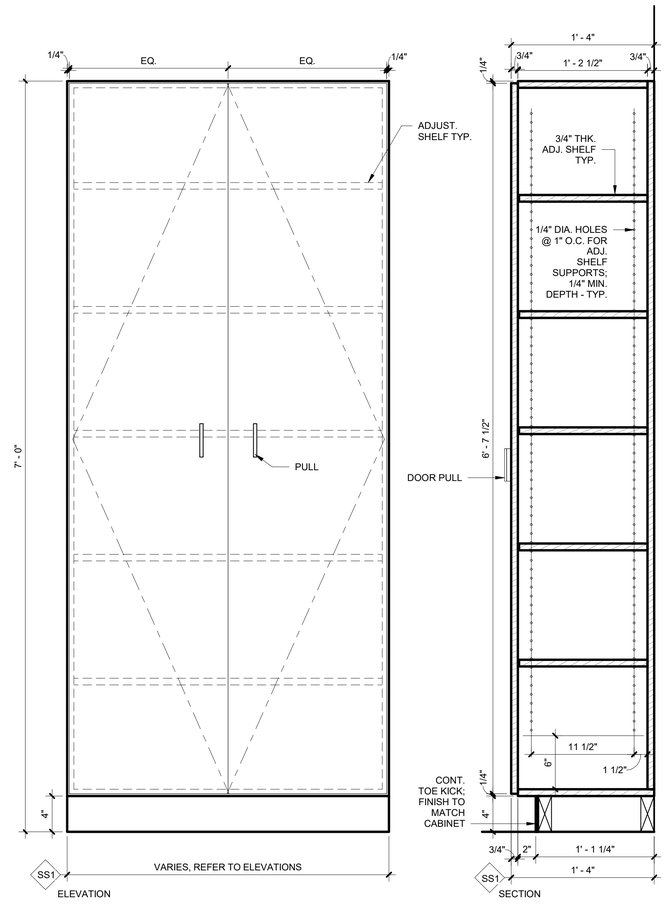
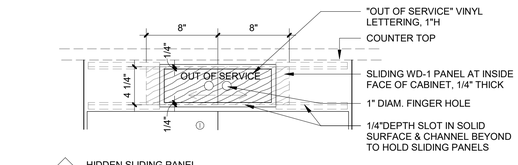
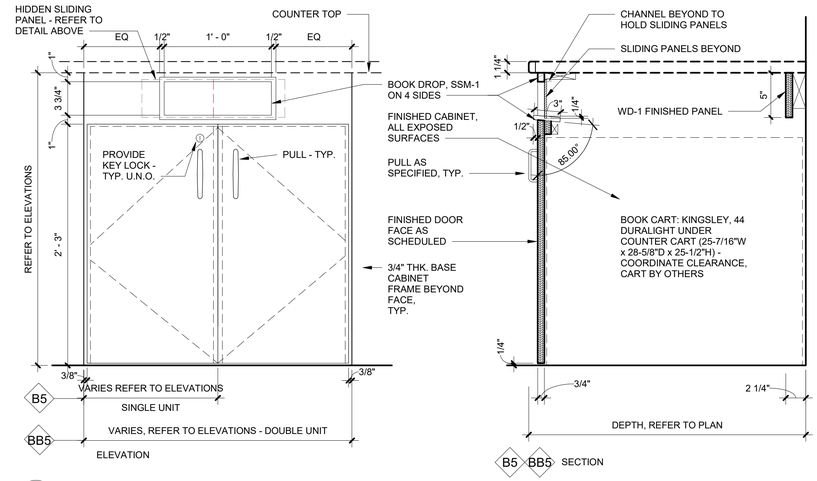
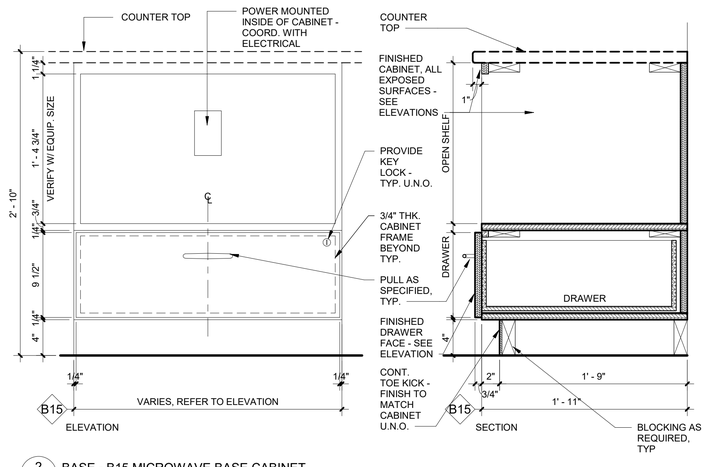


4 A9.07 CABINET - SS1
1 1/2" = 1'-0"

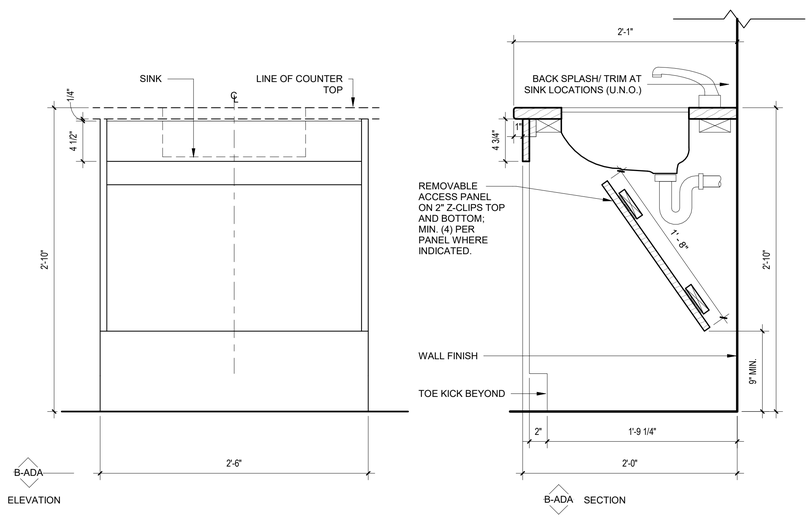




3 A9.07 BASE - B5/BB5 - RETURN BIN CABINET
1 1/2" = 1'-0"



2 A9.07 BASE - B15 MICROWAVE BASE CABINET
1 1/2" = 1'-0"



1 A9.07 BASE - B-ADA - ADA SINK SHROUD
1 1/2" = 1'-0"

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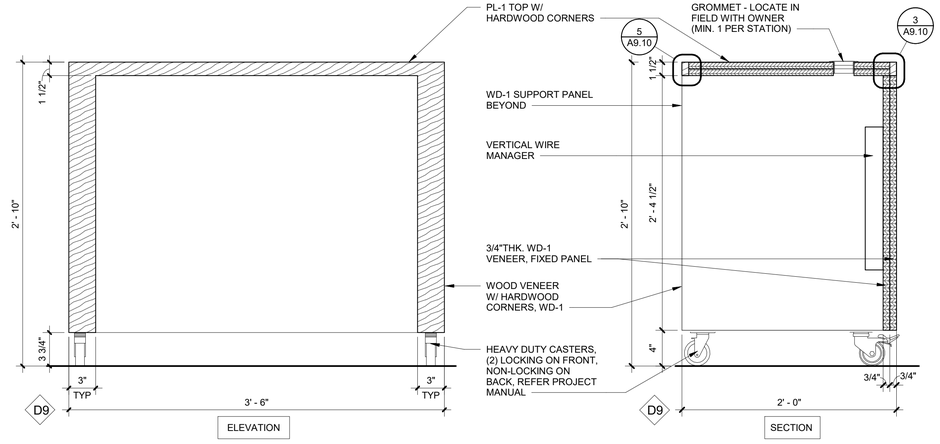
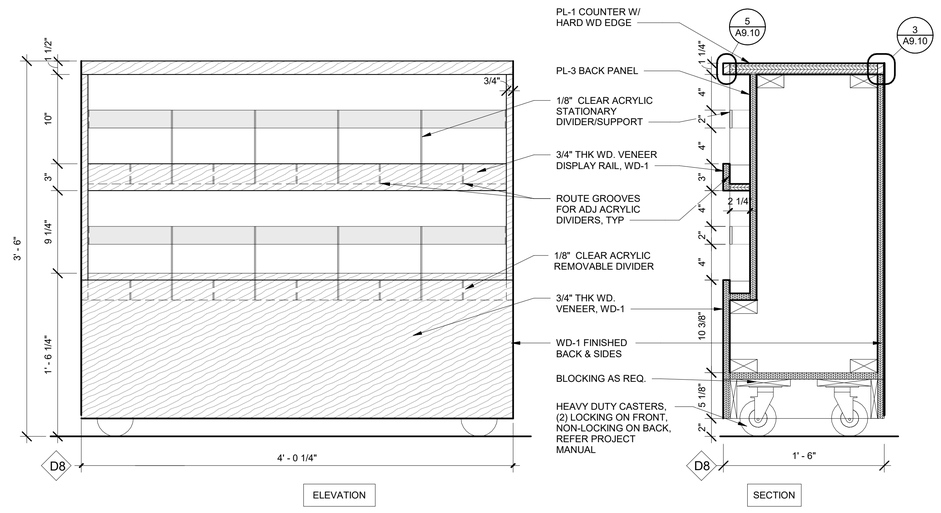
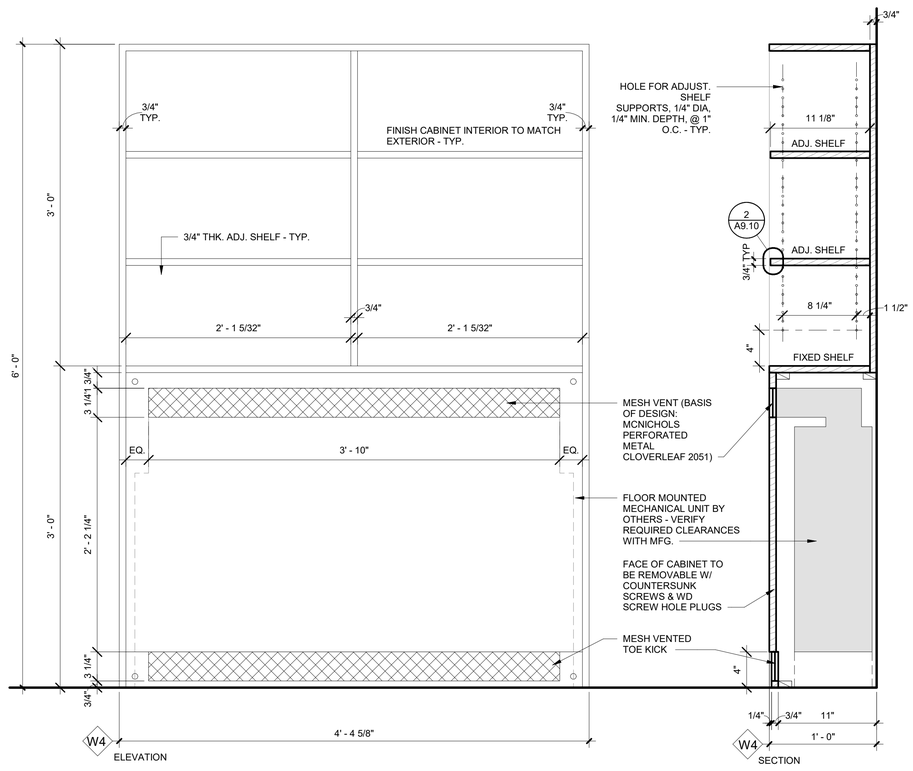


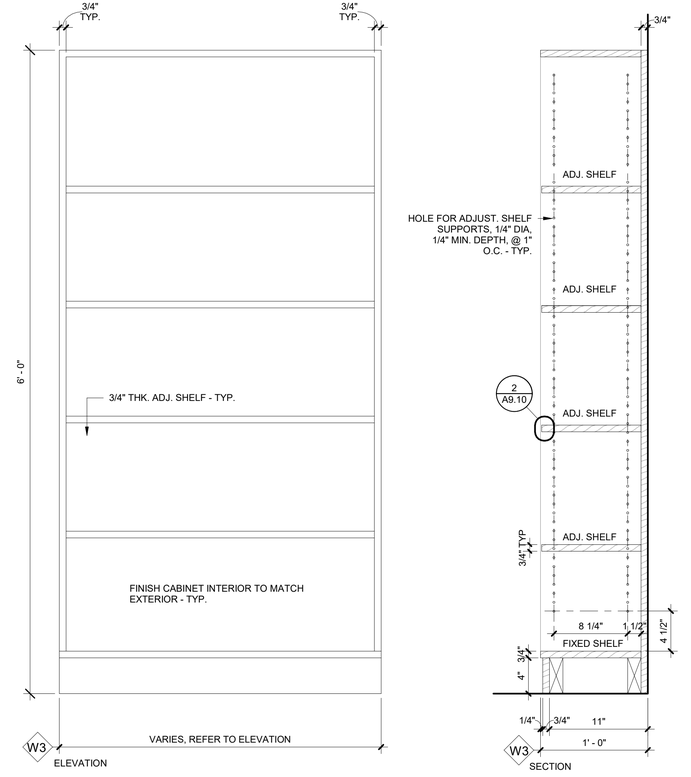
4 A9.08 DISPLAY D9 - MOBILE SELF-CHECK
1 1/2" = 1'-0"



3 A9.08 DISPLAY D8 - MOBILE PAMPHLET DISPLAY
1 1/2" = 1'-0"



2 A9.08 W4 BOOKSHELF - 5 HIGH W/ VENT
1 1/2" = 1'-0"



1 A9.08 W3 BOOKSHELF - 5 HIGH
1 1/2" = 1'-0"

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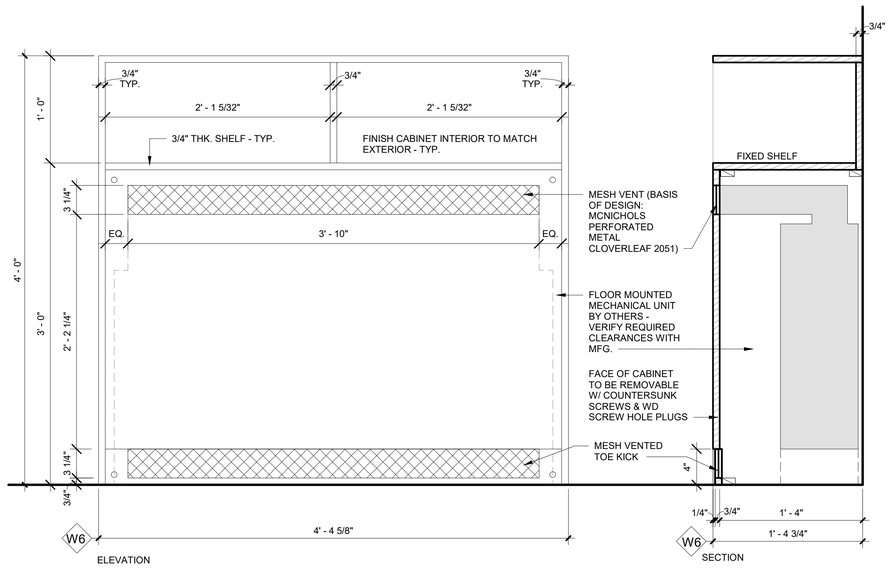
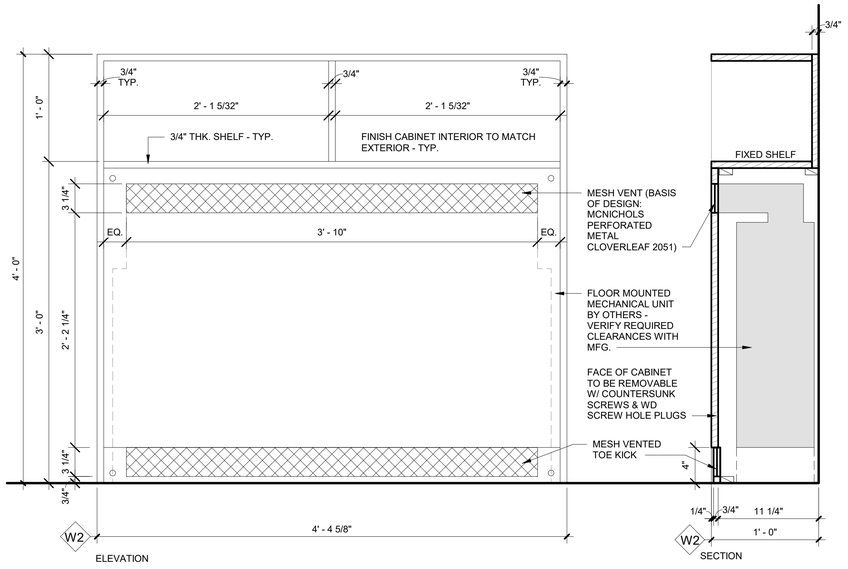
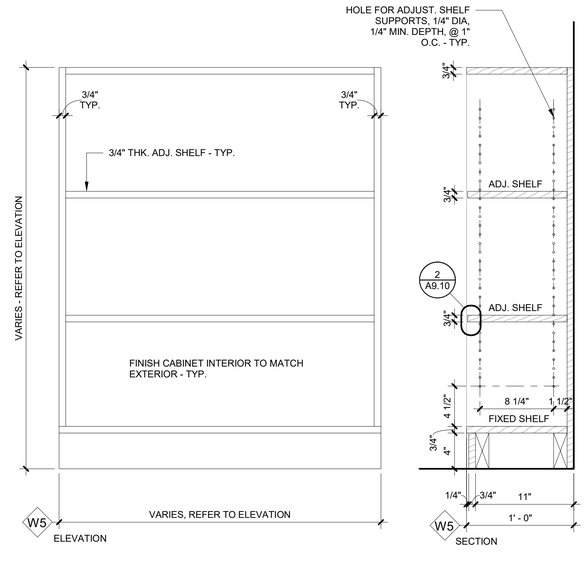


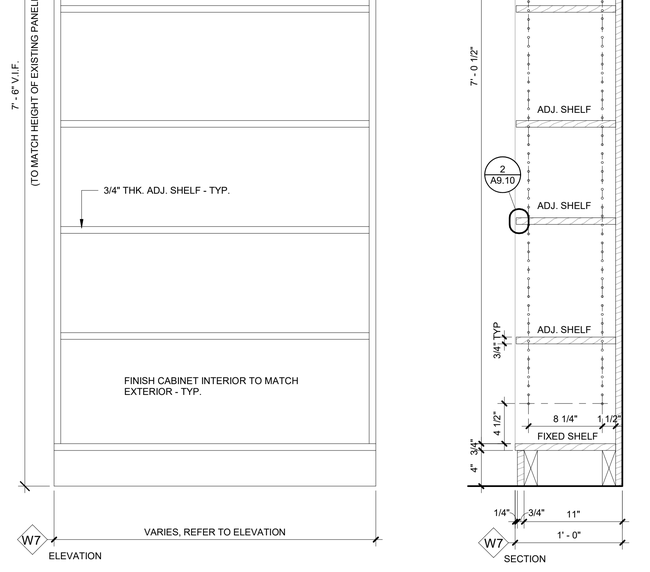
4 A9.09 W6 BOOKSHELF - 3 HIGH DEEP
1 1/2" = 1'-0"



3 A9.09 W2 BOOKSHELF - 2 HIGH W/ VENT
1 1/2" = 1'-0"



2 A9.09 W5 BOOKSHELF - 3 HIGH
1 1/2" = 1'-0"



1 A9.09 W7 BOOKSHELF - 7 HIGH
1 1/2" = 1'-0"

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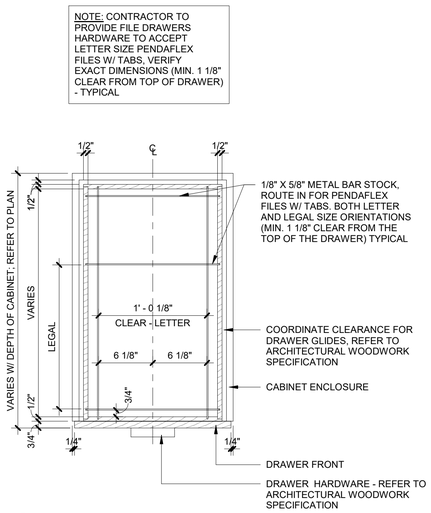
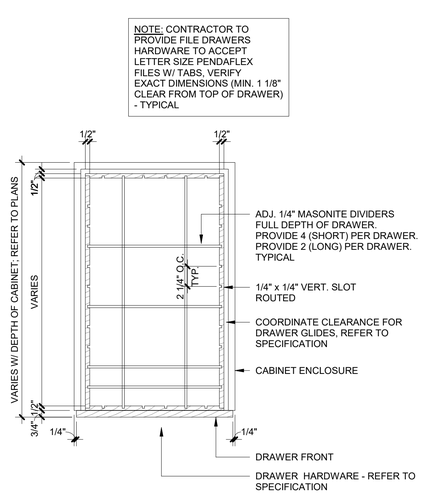
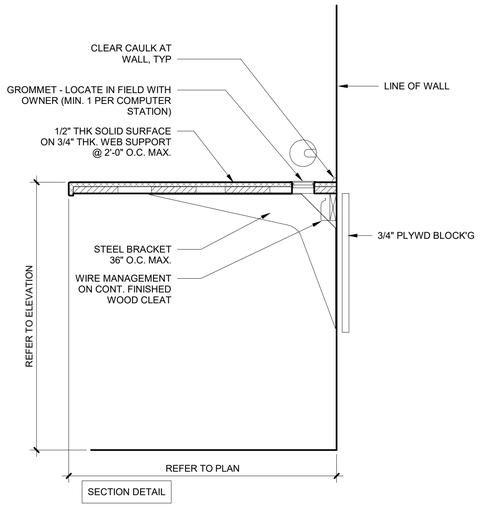


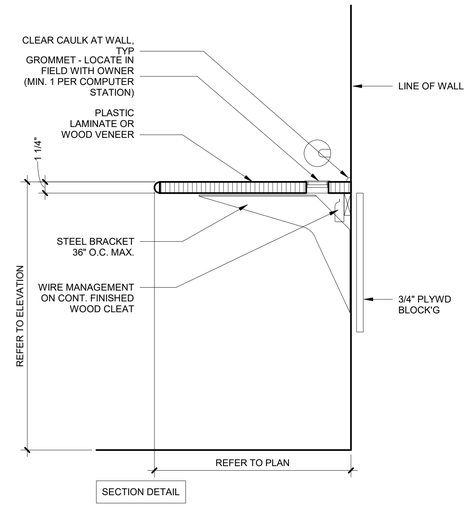
11 A9.10 FILE DRAWER PLAN
1 1/2" = 1'-0"



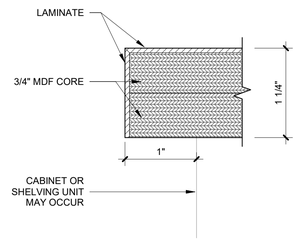
10 A9.10 BOX DRAWER PLAN
1 1/2" = 1'-0"



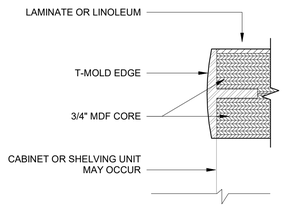
9 A9.10 TYPICAL COUNTER - SOLID SURFACE
1 1/2" = 1'-0"



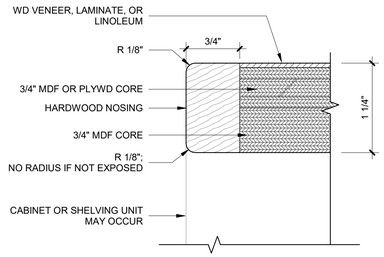
8 A9.10 TYPICAL COUNTER - PLASTIC LAMINATE
1 1/2" = 1'-0"



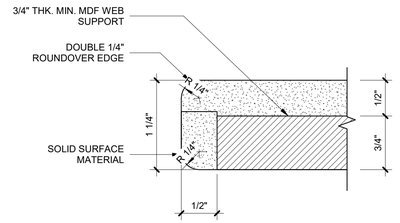
7 A9.10 EDGE DETAIL - SQUARE
12" = 1'-0"



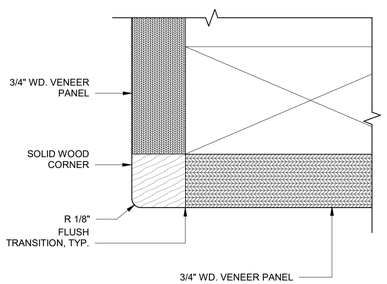
6 A9.10 EDGE DETAIL - T-MOLD NOSING
12" = 1'-0"



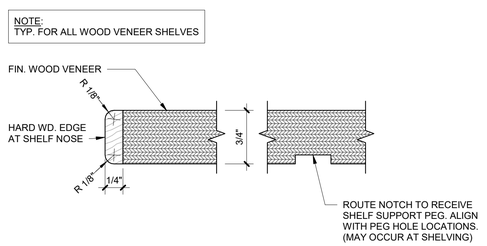
5 A9.10 EDGE DETAIL - HARDWOOD FOR LAMINATE/VENEER
12" = 1'-0"



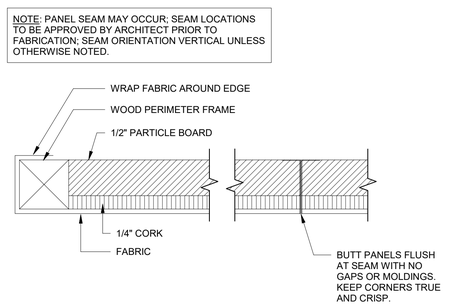
4 A9.10 EDGE DETAIL - DOUBLE ROUNDOVER
12" = 1'-0"



3 A9.10 DETAIL - WOOD CORNER
12" = 1'-0"



2 A9.10 DETAIL - WD. SHELF EDGE, TYPICAL
12" = 1'-0"



1 A9.10 DETAIL - FABRIC WRAPPED TACK BOARD
12" = 1'-0"

2/7/2025 10:03:44 AM

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CABINETRY DETAILS

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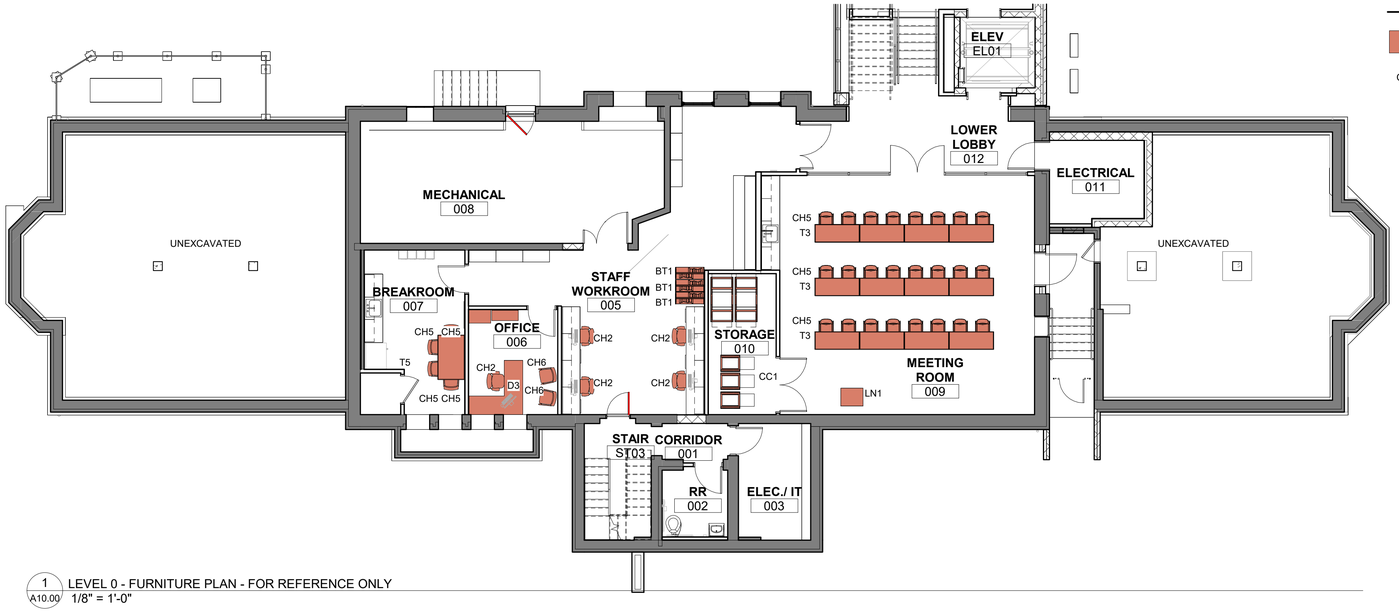
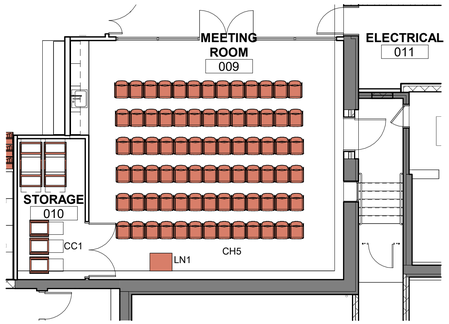


1 A10.00 LEVEL 0 - FURNITURE PLAN - FOR REFERENCE ONLY
1/8" = 1'-0"



3 A10.00 LEVEL 0 - FURNITURE PLAN - MEETING ROOM CHAIR LAYOUT - FOR REFERENCE ONLY
1/8" = 1'-0"

2 A10.00 LEVEL 1 - FURNITURE PLAN - FOR REFERENCE ONLY
1/8" = 1'-0"

FURNITURE PLAN LEGEND

FURNITURE

CH1 INDICATES FURNITURE LIST ITEM FOR THIS DRAWING ONLY. FURNITURE FOR REFERENCE ONLY AND NOT IN CONTRACT.

FURNITURE GENERAL NOTES

1 FURNITURE IS SHOWN FOR REFERENCCE ONLY. FURNITURE IS NOT IN CONTRACT AND IS TO BE PROVIDED AND INSTALLED BY SEPARATE CONTRACTOR.

FURNITURE LIST

NO.	DESCRIPTION	NO.	DESCRIPTION
CH1	STUDY CHAIR	T1	OCCASIONAL TABLE
CH2	TASK CHAIR	T2	STUDY TABLE
CH3	STUDY CHAIR	T3	FLIP/NEST TABLE
CH4	COMPUTER CHAIR	T4	STUDY ROOM TABLE
CH5	STACK CHAIR	T5	BREAK ROOM TABLE
CH6	GUEST CHAIR	T6	TEEN MAKER TABLE
CH7	TEEN COMPUTER CHAIR	T7	TWEEN STUDY TABLE
CH8	TEEN STOOL	T8	CHILDREN'S COMPUTER TABLE
CH9	CHILDREN'S CHAIR - MEDIUM	T8A	TEEN COMPUTER TABLE
CH10	CHILDREN'S CHAIR - SMALL	T9	CHILDREN'S STUDY TABLE
CH11	CHILDREN'S COMPUTER CHAIR	T10	LEGO TABLE
CC1	CHAIR CART	ST1	STUDY POD
B1	WOOD BENCH	ST2	COMPUTER STUDY POD
B2	LOW BACK OTTOMAN	ST3	STUDY WALL ARCH
B3	SMALL OTTOMAN	ST4	PARENT/CHILD STUDY POD
B4	CURVED BENCH	LN1	MOBILE LECTERN
B5	CHILDREN'S OTTOMAN	BT1	BOOK TRUCK
B6	CHILDREN'S OTTOMAN - LARGE		
B7	CHILDREN'S TABLE OTTOMAN		
B8	CHILDREN'S PETAL OTTOMAN		
L1	ADULT LOUNGE CHAIR		
L2	TWEEN AREA LOUNGE CHAIR		
L3	CHILDREN'S AREA LOUNGE CHAIR		
L4	ADULT LOUNGE CHAIR		
L5	ADULT LOUNGE CHAIR		
D1	STAFF DESK		
D2	SECURITY DESK		
D3	OFFICE DESK		
D4	CHILDREN'S STAFF DESK		

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FURNITURE PLAN - REFERENCE ONLY

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GENERAL NOTES

FOUNDATION AND SLAB ON GRADE:

NOTE: 1
FOOTINGS AT THE ADDITION ARE DESIGNED TO BE SUPPORTED ON HELICAL PILES WITH AN ALLOWABLE COMPRESSIVE LOAD OF 20K AND AN ALLOWABLE TENSILE LOAD OF 10K, AND FOOTINGS AT THE EXISTING STRUCTURE ARE DESIGNED USING AN ALLOWABLE BEARING PRESSURE OF 2000 PSF. THESE VALUES ARE BASED ON THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT PREPARED BY D.W. KOZERA, INC. DATED MAY 10, 2024. A GEOTECHNICAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHALL OVERSEE AND QUALIFY THE INSTALLATION OF THE HELICAL PILES AND VERIFY THE SOIL BEARING CAPACITY IN THE FIELD FOR THE VALUES REFERENCED IN THE REPORT. IF FIELD CONDITIONS DO NOT MEET THE VALUES REFERENCED IN THE REPORT, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

NOTE: 2
ALL FILL UNDER SLABS-ON-GRADE SHALL BE COARSE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. SLABS-ON-GRADE SHALL BE POURED IN ACCORDANCE WITH ACI 302.1R, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (LATEST LOCAL APPROVED EDITION). SAW CUT CONTROL JOINTS SUCH THAT TOTAL AREA BOUNDED BY SAW CUTS AND FORMED EDGES DOES NOT EXCEED 300 FT^2 AND LONG SIDE TO SHORT SIDE DOES NOT EXCEED A 1.5:1 RATIO. PROVIDE #4 x3'-0" LONG BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINT CORNERS THAT DO NOT HAVE A CONTROL/CONSTRUCTION JOINT TERMINATING.

NOTE: 3
DO NOT BACKFILL AGAINST WALLS UNTIL SUPPORTING SLABS ARE IN PLACE AND HAVE ATTAINED DESIGN STRENGTH.

NOTE: 4
WALLS SUPPORTED AT THE TOP BY A SLAB-ON-GRADE SHALL BE BRACED UNTIL THE SLAB HAS ATTAINED DESIGN STRENGTH. BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE: 5
BASEMENT AND CANTILEVER RETAINING WALLS HAVE NOT BEEN DESIGNED FOR SURCHARGE LOADINGS ASSOCIATED WITH CONSTRUCTION TRAFFIC, TEMPORARY STORAGE, ETC. THE CONTRACTOR SHALL KEEP CONSTRUCTION SURCHARGES AWAY FROM THE INFLUENCE LINE OF THESE WALLS OR THE CONTRACTOR SHALL INSTALL TEMPORARY BRACING FOR THESE WALLS. DESIGN OF THE TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONCRETE:

NOTE: 1
ALL CONCRETE, EXCEPT AS NOTED, SHALL BE f'_c=3000 PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL FOUNDATION ELEMENTS SHALL BE f'_c=5000 PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE f'_c=5000 PSI NORMAL WEIGHT CONCRETE AND SHALL BE AIR ENTRAINED FOR EXPOSURE CLASS F3 PER ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI SP-66, "ACI DETAILING MANUAL" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) EXCEPT AS OTHERWISE NOTED.

NOTE: 4
WELDED WIRE FABRIC (W.W.F.) SHALL HAVE ENDS LAPPED ONE FULL MESH AND SHALL BE ADEQUATELY SUPPORTED BY CHAIRS OR BOLSTERS. WELDED WIRE FABRIC SHALL BE PLACED WITHIN THE UPPER THIRD OF THE SLAB ON GRADE.

NOTE: 5
WALL FOOTING REINFORCING SHALL EXTEND 2'-0" INTO ADJACENT COLUMN FOOTING, UNLESS OTHERWISE NOTED.

NOTE: 6
UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH = 3"
EXPOSED TO EARTH OR WEATHER:
- NO. 6 AND LARGER BARS = 2"
- NO. 5 AND SMALLER BARS = 1 1/2"

NOT EXPOSED TO EARTH OR WEATHER:
- SLABS = 3/4"
- PIERS = 1 1/2" TO TIES, STIRRUPS OR SPIRALS

NOTE: 7
OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. SEE MEP AND ARCHITECTURAL DRAWINGS FOR HOLES IN SLABS NOT SHOWN.

NOTE: 8
CONDUITS IN STRUCTURAL MEMBERS:
a. CONDUITS SHALL ONLY BE PLACED IN THE MIDDLE THIRD OF THE DEPTH OF THE SLAB.
b. NO CONDUIT WITH AN OUTSIDE DIAMETER GREATER THAN ONE THIRD OF THE SLAB THICKNESS SHALL BE PLACED IN THE SLAB.
c. NO CONDUITS SHALL BE PLACED IN THE SLAB UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS.
d. CONDUITS WHICH CROSS OVER ONE ANOTHER IN A CONCRETE SLAB SHALL NOT OCCUPY A TOTAL SPACE AT THE POINT OF CROSSOVER GREATER THAN ONE THIRD THE DEPTH OF THE SLAB.
e. NO CONDUITS SHALL BE PLACED IN A PIER.

NOTE: 9
CONSTRUCTION JOINTS SHALL HAVE THE SURFACE OF THE FIRST POUR ROUGHENED TO 1/4" AMPLITUDE, UNLESS OTHERWISE NOTED.

NOTE: 10
THE CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI 318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT, WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

CONCRETE CONTINUED:

NOTE: 11
ALL CONCRETE WORK SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF THE FOLLOWING ACI AND ASTM DOCUMENTS:
- ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE
- ACI-318 CODE
- ACI-214 COMPRESSIVE TEST
- ACI-306 COLD WEATHER
- ACI SP-66 DETAILING
- ACI-347 FORMWORK
- ACI-305 HOT WEATHER
- ACI-211 PROPORTIONS OF CONCRETE
- ACI-304 PLACING CONCRETE
- ASTM C-94 READY-MIX CONCRETE

NOTE: 12
ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF ASTM:
- ASTM C-31 FIELD CYLINDER SPECIMENS
- ASTM C-143 SLUMP TEST
- ASTM C-231 AIR CONTENT (WHEN REQUIRED)
- ASTM C-39 LAB TESTING CYLINDERS
- ASTM C-172 SAMPLING FRESH CONCRETE
- ASTM C-42 HARDENED CORES (WHEN REQUIRED)

TEST RESULTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

MASONRY:

NOTE: 1
CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION C90. CONCRETE MASONRY SHALL BE SAMPLED AND TESTED BY THE MASONRY SUPPLIER ACCORDING TO ASTM C140. ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) AND TMS 602, "SPECIFICATION FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
UNLESS OTHERWISE NOTED, CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA. ALL BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3350 PSI ON THE NET AREA.

NOTE: 3
ALL MORTAR SHALL CONFORM TO ASTM C270. MORTAR TO BE USED SHALL BE SAMPLED AND TESTED BY THE BRICK AND MASONRY SUPPLIERS ACCORDING TO ASTM C780 AND RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. MORTAR SHALL BE PORTLAND CEMENT/LIME MORTAR TYPE "S" AS A MINIMUM.

NOTE: 4
UNLESS NOTED OTHERWISE, PROVIDE 8" MINIMUM OF BRICK OR 100% SOLID MASONRY CONTINUOUS BELOW ALL JOISTS OR SLAB BEARING LINES. PROVIDE 16" MINIMUM BRICK OR 100% SOLID MASONRY BELOW ALL LINTELS AND/OR MINOR WALL BEARING BEAMS.

NOTE: 5
LOOSE LINTELS FOR OPENINGS IN MASONRY BEARING WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:
- 0'-0" TO 3'-0"........................3 1/2 "x3 1/2"x5/16"ANGLE
- 3'-1" TO 5'-0"........................4"x3 1/2"x5/16" ANGLE
- 5'-1" TO 6'-0"........................5"x3 1/2"x3/8" ANGLE
- 6'-1" TO 8'-0"........................6"x3 1/2"x3/8" ANGLE

ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.

NOTE: 6
LINTELS OVER OPENINGS 10'-0" WIDE OR LESS IN INTERIOR NON-BEARING MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST LIGHTWEIGHT CONCRETE LINTELS REINFORCED WITH 1-#5 BAR TOP AND BOTTOM FOR EACH 4" WIDTH.

NOTE: 7
ALL SOLID CMU SHALL BE 100% SOLID BLOCK OR HOLLOW BLOCK WITH CELLS FILLED 100% SOLID WITH f 'c=3000 PSI COARSE AGGREGATE GROUT CONFORMING TO ASTM C476. GROUT SHALL BE PLACED IN POUR HEIGHTS NOT TO EXCEED 4'-0" AS CMU CONSTRUCTION PROGRESSES. THE WEBS OF THE MASONRY UNITS SHALL BE FULLY MORTARED AROUND ALL GROUTED CELLS.

NOTE: 8
ALL REINFORCED CELLS IN HOLLOW BLOCK SHALL BE GROUTED 100% SOLID PER NOTE ABOVE.

NOTE: 9
ALL SPLICES IN REINFORCING STEEL FOR MASONRY WALLS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- #4 BAR ----- 2'-8"
- #5 BAR ----- 3'-4"
- #6 BAR ----- 4'-0"

NOTE: 10
ALL CMU WALLS 8" OR WIDER SHALL HAVE THE FOLLOWING MINIMUM REINFORCING UNLESS NOTED OTHERWISE:
- INTERIOR WALLS ....#5 AT 72" o.c.
- EXTERIOR WALLS ....#5 AT 48" o.c.

NOTE: 11
IN ADDITION TO REINFORCING STEEL NOTED ON PLANS, SCHEDULES AND SECTIONS, PROVIDE VERTICAL BARS OF SAME SIZE WITHIN 8"OF EACH SIDE OF WALL CONTROL JOINTS, WITHIN 8" OF THE ENDS OF WALLS, WITHIN 16" OF EACH SIDE OF OPENINGS AND AT ALL CORNERS.

NOTE: 12
REINFORCING BAR POSITIONERS SHALL BE USED TO HOLD BARS IN PROPER LOCATION. POSITIONERS SHALL BE PLACED AT A MAXIMUM VERTICAL SPACING OF 48"o.c.

NOTE: 13
ALL 6" CMU NON-BEARING WALLS SHALL BE DOWELED TO THE SUPPORTING SLAB WITH #4 AT 48"o.c. UNLESS NOTED OTHERWISE.

NOTE: 14
ALL MASONRY ANCHORS SHALL BE INSTALLED IN MASONRY THAT HAS BEEN GROUTED SOLID A MINIMUM OF 8" ABOVE AND BELOW THE ANCHOR AND A MINIMUM OF 8" EACH SIDE OF THE ANCHOR.

MASONRY CONTINUED:

NOTE: 15
MASONRY CONSTRUCTION SHALL BE INSPECTED PER TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) REQUIRED QUALITY ASSURANCE LEVEL:
RISK CATEGORY 2 ----- LEVEL 2

NOTE: 16
CONDUIT PLACED IN MASONRY SHALL CONFORM TO TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION). A SINGLE VERTICAL CONDUIT WITH A MAXIMUM DIAMETER OF 1" IS PERMITTED IN MASONRY PIERS. CONDUIT SHALL BE PLACED A MINIMUM 1" CLEAR FROM ALL VERTICAL REINFORCEMENT. LARGER CONDUIT AND/OR GREATER QUANTITIES ARE NOT PERMITTED IN MASONRY PIERS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD. NO CONDUIT SHALL BE PLACED IN BOND BEAMS.

NOTE: 17
TYPICAL INFILLING, REMOVAL AND REPAIR OF EXISTING MASONRY

INFILLING:
WHERE NEW MASONRY IS TO BE ADDED, THE MASONRY SHALL BE TOOTHED AND MORTARED (SEE GUIDELINES FOR "REPAIR"). THE NEW MASONRY SHALL BEAR ON NEW CONCRETE FOUNDATIONS OR ON THE EXISTING MASONRY. IN THE LATTER CASE, THE EXISTING MASONRY SHALL BE REMOVED TO GOOD, SOLID MATERIAL. THE DRAWINGS INDICATE THE APPROXIMATE EXTENT OF THE REQUIRED MASONRY INFILL. THIS IS A GUIDE ONLY AND THE EXACT EXTENT SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. WHEN THE RESULTING MASONRY WOULD BE PART NEW AND PART EXISTING AND WOULD FORM A PIER OR OTHERWISE SMALL ELEMENT, REMOVE ALL THE EXISTING MASONRY AND MAKE A NEW PIER OR WALL.

REMOVING:
IN THOSE AREAS WHERE NEW OPENINGS MUST BE MADE THROUGH EXISTING MASONRY WALLS, THE EXISTING MASONRY SHALL BE CAREFULLY REMOVED AFTER THE WALL THAT REMAINS ABOVE THE PROPOSED OPENING HAS BEEN TEMPORARILY SUPPORTED OR AFTER THE LINTELS HAVE BEEN PUT IN PLACE. ANY REQUIRED CUTTING BEYOND THE MASONRY OPENING SHALL BE PATCHED WITH MASONRY AND MORTAR (SEE GUIDELINES FOR "REPAIR"). WHEN THE MASONRY THAT REMAINS AFTER REMOVAL WOULD RESULT IN A PIER OR OTHERWISE SMALL ELEMENT, THE EXISTING MASONRY SHALL BE REMOVED AND A NEW PIER OR WALL SHALL BE CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHOWING THE SUPPORT OF THE WALLS PRIOR TO AND DURING THE INSTALLATION OF LINTELS REQUIRED TO SUPPORT THE MASONRY ABOVE THE NEW OPENING.

REPAIR:
IN THOSE AREAS WHERE THE EXISTING MASONRY HAS DETERIORATED, SAGGED OR CRACKED, THE MASONRY SHALL BE REMOVED AND REPLACED. EXISTING BRICKS MAY BE RE-USED PROVIDED THAT THEY ARE IN GOOD CONDITION. THE NEW MORTAR USED TO REPLACE THE EXISTING MORTAR SHALL MATCH SOUND EXISTING MORTAR IN STIFFNESS AND CONSISTENCY. IF NEW BRICKS ARE REQUIRED, THEY ALSO SHALL MATCH EXISTING BRICKS IN GOOD CONDITION. THE NEW MASONRY SHALL BE TOOTHED INTO THE EXISTING WALL. THE ARCHITECT SHALL APPROVE ALL NEW MASONRY WORK.

MASONRY CONTROL JOINTS:

NOTE: 1
CONTROL JOINTS IN MASONRY WALLS SHALL CONFORM TO NCMA TEK 10-2C, "CONTROL JOINTS FOR CONCRETE MASONRY WALLS-EMPIRICAL METHOD".

NOTE: 2
SPACING OF CONTROL JOINTS SHALL NOT EXCEED 25 FEET OR 1.5 TIMES THE HEIGHT OF THE WALL, WHICHEVER IS SMALLER. IN ADDITION, CONTROL JOINTS SHALL BE PLACED ADJACENT TO CORNERS AND WALL INTERSECTIONS, CHANGES IN WALL HEIGHT, AND CHANGES IN WALL THICKNESS. CONTROL JOINTS AT CORNERS AND WALL INTERSECTIONS SHALL BE PLACED SUCH THAT THE DISTANCE TO THE CORNER OR WALL INTERSECTION DOES NOT EXCEED ONE HALF THE TYPICAL CONTROL JOINT SPACING.

NOTE: 3
CONTROL JOINTS SHALL BE PLACED MINIMUM 2'-0" CLEAR OF ALL WINDOW AND DOOR OPENINGS. WHEN MULTIPLE OPENINGS EXIST IN THE SAME WALL, CONTROL JOINTS SHALL BE PLACED NEAR THE MIDPOINT BETWEEN OPENINGS.

NOTE: 4
REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL JOINTS IN BRICK AND MASONRY VENEER. CONTROL JOINTS IN THE VENEER DO NOT NECESSARILY ALIGN WITH THE CONTROL JOINTS IN THE SUPPORTING BACKUP WALL.

NOTE: 5
UNLESS NOTED OTHERWISE, CONTROL JOINTS SHALL TERMINATE AT THE SLAB ON GRADE OR ON TOP OF FOUNDATION WALL. JOINTS SHALL NOT BE INSTALLED BELOW GRADE. CONTROL JOINTS IN THE MASONRY WALLS SHALL ALIGN WITH CONTROL JOINTS IN THE SLAB ON GRADE TO THE GREATEST EXTENT POSSIBLE.

NOTE: 6
CONTROL JOINTS ARE PROHIBITED IN SOLID MASONRY PIERS.

NOTE: 7
CONTROL JOINTS IN BEARING WALLS SHALL BE PLACED MINIMUM 1'-6" CLEAR OF BEARING LOCATIONS AS MEASURED FROM THE CENTERLINE OF THE SUPPORTED MEMBER.

NOTE: 8
INTERRUPT ALL JOINT REINFORCEMENT AT CONTROL JOINTS AND INSTALL PREFORMED GASKET OR KEYED PAPER JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT REQUIREMENT. BOND BEAM REINFORCEMENT SHALL BE INTERRUPTED AND SUPPLEMENTED WITH SMOOTH DOWELS. DE-BOND DOWEL ON ONE SIDE OF THE JOINT BY WRAPPING IN BUILDING PAPER OR PLASTIC SLEEVE.

NOTE: 9
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A MASONRY CONTROL JOINT LAYOUT AND SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW. THE SUBMITTAL SHALL INCLUDE A DIMENSIONED LAYOUT OF ALL VERTICAL CONTROL JOINTS IN MASONRY WALLS AND MASONRY OR BRICK VENEER.

STEEL:

NOTE: 1
STRUCTURAL STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992. STRUCTURAL STEEL FOR HSS MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C. STRUCTURAL STEEL FOR PIPES SHALL CONFORM TO ASTM SPECIFICATION A53 TYPE E, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM SPECIFICATION A36. MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE. ALL CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL DEVELOP THE ALLOWABLE UNIFORM LOAD OF THE BEAM. CONNECTIONS FOR COMPOSITE BEAMS SHALL DEVELOP THE REACTION NOTED ON THE PLANS. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS UNLESS OTHERWISE NOTED AND SHOP CONNECTIONS SHALL BE WELDED.

NOTE: 2
BOLTS, EXCEPT AS NOTED, NEED ONLY BE INSTALLED TO THE "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS." BOLTS IN BEAM TO COLUMN CONNECTIONS THAT HAVE SLOTTED HOLES, BOLTS NOTED AS SLIP CRITICAL, AND BOLTS SUBJECT TO DIRECT TENSION SHALL BE FULLY PRE-TENSIONED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.

NOTE: 4
ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE, SINGLE ANGLE, SINGLE PLATE, OR THRU PLATE CONNECTIONS PER THE TYPICAL DETAILS OF THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE SELECTED BY THE STEEL DETAILER BASED ON THE CONNECTION TABLES PROVIDED IN THE TYPICAL DETAILS. LOADS SHOWN IN THE DRAWINGS ARE ASD LOADS UNLESS OTHERWISE NOTED.

NOTE: 5
ALL GROOVE WELDS SHALL BE FULL PENETRATION GROOVE WELDS IN ACCORDANCE WITH ANSI/AWS D1.1, "STRUCTURAL WELDING CODE" (LATEST LOCAL APPROVED EDITION). THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE "STRUCTURAL WELDING CODE." ACCEPTANCE SHALL BE SUBJECT TO THE INSPECTION AND REVIEW OF AN INDEPENDENT INSPECTION AGENCY. ALL FULL PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED.

NOTE: 6
HOLES AND OPENINGS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

NOTE: 7
FIELD MODIFICATION OF THE STRUCTURAL STEEL IS NOT ALLOWED WITHOUT PRIOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

NOTE: 8
WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS MINIMIZED AND UNDUE DISTORTION IS AVOIDED.

NOTE: 9
ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. ALL EXPOSED STEEL AND LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED. REFER TO ARCHITECTURAL DRAWINGS FOR GALVANIZED STEEL THAT SHALL RECEIVE A PAINTED FINISH COAT.

NOTE: 10
TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE INSTALLATION OF THE FOLLOWING ITEMS HAS BEEN COMPLETED AND INSPECTED:
- METAL ROOF DECK
- LATERAL BRACING COMPONENTS INCLUDING ANCHOR BOLTS
- SHEAR WALLS
- MOMENT CONNECTIONS

METAL DECK:

NOTE: 1
FABRICATION AND ERECTION OF ALL METAL DECK SHALL CONFORM TO THE LATEST EDITION OF STEEL DECK INSTITUTE SPECIFICATIONS.

NOTE: 2
FLOOR DECK SHALL BE MADE OF STEEL CONFORMING TO ASTM A653 SS GRADE 50. ROOF DECK SHALL BE MADE OF STEEL CONFORMING TO ASTM A653 SS GRADE 50. GALVANIZED DECK SHALL HAVE COATING DESIGNATION G60.

NOTE: 3
ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2" ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING OR FURNISH HEAVIER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. THE CONTRACTOR SHALL SUBMIT THE ALTERNATE LAYOUT FOR APPROVAL.

NOTE: 4
DECK SHALL BE WELDED TO SUPPORTING STEEL AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS AT 12"o.c., AND AS NOTED ON PLANS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SIDE LAPS SHALL BE WELDED OR SCREWED AT MID SPAN AND AS NOTED ON PLANS.

NOTE: 5
PROVIDE RIDGE AND VALLEY PLATES, REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS SHOWN ON THE DRAWINGS OR AS REQUIRED.

NOTE: 6
DO NOT HANG ANY EQUIPMENT, LIGHTS, DUCTS, PIPES, ETC., FROM METAL ROOF DECK.

COLD-FORMED METAL FRAMING:

NOTE: 1
GALVANIZED STUDS, JOISTS, AND TRACKS, 12, 14, AND 16 GAGE SHALL BE FORMED FROM STEEL THAT CONFORMS TO ASTM A653, GRADE 50. GALVANIZED 18 AND 20 GAGE STUDS, JOISTS, TRACKS, AND ALL GALVANIZED BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653 GRADE 33.

NOTE: 2
ALL COLD-FORMED METAL FRAMING SHALL BE FORMED FROM STEEL HAVING A G-90 GALVANIZED COATING.

NOTE: 3
FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE WITH COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING. HANDLING AND LIFTING OF PREFABRICATED FRAME PANELS SHALL BE DONE IN A MANNER AS NOT TO CAUSE DISTORTION IN ANY MEMBER.

NOTE: 4
PROVIDE UNIFORM AND LEVEL BEARING SUPPORT FOR THE BOTTOM TRACK.

NOTE: 5
AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE BUTT WELDED OR SPLICED TOGETHER.

NOTE: 6
STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF THE TRACKS. THE ENDS OF THE STUDS MUST BEAR AGAINST THE WEB OF BOTH UPPER AND LOWER TRACKS, UNLESS OTHERWISE NOTED.

NOTE: 7
SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.

NOTE: 8
WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION. BRIDGING ROWS SHALL BE EQUALLY SPACED NOT TO EXCEED 4'-0"o.c.

NOTE: 9
TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION OF THE STRUCTURAL SYSTEM IS COMPLETE.

NOTE: 10
SIZES AND GAGES OF COLD-FORMED METAL FRAMING SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. FRAMING SHALL BE DESIGNED FOR THE WIND LOADS REQUIRED BY THE LOCAL BUILDING CODE AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. FOR BIDDING PURPOSES, PROVIDE MULTIPLE STUDS AT EACH SIDE OF OPENINGS EQUAL TO ONE-HALF OPENING WIDTH DIVIDED BY THE STUD SPACING.

SUPPORT FOR DUCTWORK, PIPING AND MECHANICAL UNITS:

NOTE: 1
NO MECHANICAL UNITS SHALL BE PLACED ON OR HUNG FROM JOISTS WITHOUT THE APPROVAL OF THE ENGINEER. NO UNITS SHALL BE SUPPORTED FROM THE BOTTOM CHORD OF THE JOIST.

NOTE: 2
DUCTWORK AND PIPING SHALL ONLY BE HUNG FROM THE STEEL FRAMING. AT JOISTS, HANGERS SHALL BE SUPPORTED FROM THE TOP CHORD PANEL POINT AND THE LOAD ON INDIVIDUAL HANGERS SHALL NOT EXCEED 300 POUNDS.

NOTE: 3
PIPE RISERS SHALL BE SUPPORTED FROM THE FLOOR SLAB BELOW WITH A CLAMP OR STANCHION.

NOTE: 4
JOISTS HAVE BEEN DESIGNED FOR A UNIFORM HANGING SPRINKLER LOAD OF 3 PSF. THE SPRINKLER CONTRACTOR SHALL SPACE THE SPRINKLERS SO THAT THE UNIFORM HANGING SPRINKLER LOAD IS NOT EXCEEDED. SPRINKLER LINES 4" AND LARGER THAT RUN PARALLEL WITH THE JOISTS SHALL BE PLACED EVENLY BETWEEN TWO JOISTS. SPRINKLER PIPES SHALL BE HUNG FROM THE TOP CHORD PANEL POINT OF THE JOISTS AND THE LOAD ON EACH INDIVIDUAL HANGER SHALL NOT EXCEED 300 POUNDS.

NOTE: 5
THE MAXIMUM TOTAL HUNG LOAD ON ANY SINGLE JOIST FROM MULTIPLE HANGERS SHALL NOT EXCEED 900 POUNDS.

RIGGING, HOISTING AND SCAFFOLDING REQUIREMENTS:

NOTE: 1
THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT FOR REVIEW A SITE SPECIFIC RIGGING AND HOISTING PLAN FOR ALL MAJOR EQUIPMENT THAT WILL BE TRANSPORTED THROUGH OR HOISTED FROM THE BUILDING. THE PLAN SHALL INCLUDE THE SEQUENCE OF ERECTION, THE DESCRIPTION OF THE RIGGING, HOISTING AND TRANSPORTATION EQUIPMENT AND THE SITE PREPARATIONS THAT WILL BE NEEDED TO COMPLETE THE INSTALLATION.

NOTE: 2
THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT FOR REVIEW A SITE SPECIFIC PLAN FOR ALL SCAFFOLDING THAT WILL BE INSTALLED ON FRAMED FLOORS AND ROOFS.

NOTE: 3
THE PROPOSED RIGGING, HOISTING OR SCAFFOLDING PLAN SHALL BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. THE PROFESSIONAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED CERTIFICATION STATING THAT THE PROPOSED PLAN WILL NOT DAMAGE OR OVERSTRESS THE STRUCTURE.

NOTE: 4
IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE LOADS SUPERIMPOSED BY THE RIGGING, HOISTING OR SCAFFOLDING SYSTEMS WILL NOT EXCEED THE FOLLOWING LOADS:
- FRAMED FLOORS = 100 PSF
- ROOFS = 30 PSF

NOTE: 5
THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL FINISHES.

POST-INSTALLED ANCHORS AND REINFORCING:

NOTE: 1
ANCHORS SHALL BE THE FOLLOWING TYPES MANUFACTURED BY HILTI, INC.:
a. ADHESIVE ANCHORS IN CONCRETE: HILTI HIT-HY200 ANCHORING SYSTEM PER ICC ESR-3187 WITH HILTI HIT-Z THREADED ROD.
b. ADHESIVE ANCHORS IN SOLID GROUTED MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-4143/ESR-4144 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD.
c. ADHESIVE ANCHORS IN HOLLOW AND MULTI-WYTHE MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-2682 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD AND APPROPRIATE SIZE SCREEN TUBE.
d. MECHANICAL ANCHORS IN CONCRETE: HILTI KWIK BOLT TZ2 EXPANSION ANCHOR PER ICC ESR-4266
e. MECHANICAL ANCHORS IN SOLID GROUTED MASONRY: HILTI KWIK BOLT TZ2 EXPANSION ANCHOR PER ICC ESR-4561

ALTERNATE MANUFACTURERS OR ANCHORS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO USE. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS DEMONSTRATING THAT THE PROPOSED SUBSTITUTIONS, BASED ON THEIR SPECIFIC ICC-ES EVALUATION REPORTS, ARE CAPABLE OF ACHIEVING THE PERFORMANCE VALUES EQUAL TO OR GREATER THAN THOSE OF THE ANCHORS SPECIFIED.

NOTE: 2
ADHESIVE ANCHORS AND REINFORCING SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS BEEN ALLOWED TO CURE FOR 21 DAYS AND HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 3
MECHANICAL ANCHORS SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 4
ALL POST INSTALLED ANCHORS AND REINFORCING SHALL BE INSTALLED IN DRY HOLES THAT HAVE BEEN DRILLED, CLEANED AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND THE RESPECTIVE ICC ES EVALUATION REPORTS.

NOTE: 5
THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE ANCHORING PRODUCTS SPECIFIED IN THE DRAWINGS. PRIOR TO INSTALLATION OF ANY ANCHORS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT DOCUMENTED CONFIRMATION FROM THE MANUFACTURER'S REPRESENTATIVE THAT THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL THE ANCHORS HAVE BEEN PROPERLY TRAINED FOR THE SPECIFIED ANCHORS.

NOTE: 6
IN ADDITION TO TRAINING BY THE MANUFACTURER'S REPRESENTATIVE, THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL ADHESIVE ANCHORS IN CONCRETE SHALL BE CERTIFIED BY AN ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

NOTE: 7
ALL ANCHORS AND REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE ARCHITECT PRIOR TO INSTALLING THE ANCHORS IF THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS CANNOT BE ACHIEVED. IF THIS IS THE CASE, RE-DESIGN MIGHT BE REQUIRED AND THE ANCHORS SHOULD NOT BE INSTALLED UNTIL APPROVAL HAS BEEN PROVIDED BY COLUMBIA ENGINEERING, INC.

NOTE: 8
MECHANICAL ANCHORS INSTALLED IN GROUTED MASONRY SHALL BE LOCATED A MINIMUM 1 1/2" FROM VERTICAL MORTAR JOINTS.

NOTE: 9
DO NOT CUT ANY REINFORCING UNLESS IT IS SPECIFICALLY INDICATED IN THE DRAWINGS OR IS APPROVED BY COLUMBIA ENGINEERING INC.

NOTE: 10
POST INSTALLED ANCHORS AND REINFORCING SHALL ONLY BE USED WHERE SPECIFIED IN THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM COLUMBIA ENGINEERING INC. PRIOR TO INSTALLING POST INSTALLED ANCHORS WHERE CAST IN PLACE ANCHORS ARE MISSING, MISPLACED OR DAMAGED.

NOTE: 11
POST INSTALLED ANCHORS AND REINFORCING SHALL BE PERIODICALLY INSPECTED PER IBC 2018 SECTION 1705 EXCEPT ADHESIVE ANCHORS AND REINFORCING INSTALLED IN A VERTICAL OR OVERHEAD SURFACE SHALL BE CONTINUOUSLY INSPECTED.

EXISTING CONSTRUCTION:

NOTE: 1
COLUMBIA ENGINEERING INC. PREPARED THESE PLANS BASED ON A LIMITED AMOUNT OF FIELD EXPLORATION AND ON THE STRUCTURAL INFORMATION SHOWN IN DRAWINGS "ENOCH PRATT FREE LIBRARY" PREPARED BY FREDERIC A. FLETCHER DATED JUNE 30, 1953. THE EXISTING MEMBER SIZES ARE NOTED (E) AND ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING MEMBERS SHOWN IN THE PLANS MATCH EXISTING AS BUILT CONDITIONS PRIOR TO PREPARING SHOP DRAWINGS. IF THE AS BUILT CONDITIONS DO NOT CONFORM TO THE INFORMATION SHOWN IN THE PLANS, OR IF ANY STRUCTURAL MEMBER IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR SHALL INFORM COLUMBIA ENGINEERING INC. OF THE ACTUAL SIZES AND/OR CONDITION. RE-DESIGN AND ADDITIONAL FRAMING MAY BE REQUIRED IN THAT CASE.

NOTE: 2
ALL NEW PENETRATIONS THROUGH THE EXISTING FRAMED FLOORS, ROOFS AND WALLS SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS SHOWING ALL PROPOSED OPENINGS AND SHALL SUBMIT THESE FOR REVIEW AND APPROVAL PRIOR TO CUTTING ANY OPENINGS.

NOTE: 3
NEW PENETRATIONS SHOWN IN THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, MEP AND TELECOMMUNICATION DRAWINGS FOR ALL PENETRATIONS.

NOTE: 4
ALL NEW PIPE AND DUCT PENETRATIONS SHALL BE LOCATED BY THE CONTRACTOR TO AVOID CONCRETE SLAB REINFORCEMENT AND SUPPORTING MEMBERS UNDER THE SLAB OR ROOF. IF CUTTING OF ANY REINFORCEMENT OR EXISTING SUPPORTING MEMBER CANNOT BE AVOIDED, THEN PRIOR TO CUTTING, THE CONTRACTOR SHALL PREPARE A DETAILED DRAWING SHOWING THE PROPOSED PENETRATION AND ALL THE AFFECTED REINFORCEMENT AND SUPPORTING MEMBERS AND SHALL SUBMIT THE DRAWING TO COLUMBIA ENGINEERING INC. FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT CUT ANY REINFORCEMENT OR MEMBER WITHOUT THE PRIOR APPROVAL OF COLUMBIA ENGINEERING, INC.

2/7/2025 7:58:03 AM

PRIME AE
5521 Research Park Drive, Suite 300, Baltimore, MD 21228 | 410-654-3790

STATE OF MARYLAND
RODRIGO H. CHACON
No. 14479
PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 14479, EXPIRATION DATE 6/22/25

ADDITION & RENOVATION FOR
ENOCH PRATT FREE LIBRARY
FOREST PARK BRANCH
3023 Garrison Blvd, Baltimore, MD 21216

AUGUST 29, 2025

BID SET

Revisions:

No.	Date	Description

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GENERAL NOTES

S0.1

22057

CEI #21-130

GENERAL NOTES (CONTINUED)

SELECTIVE DEMOLITION:

NOTE: 1
THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND MAINTAINING THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION UNTIL ALL WORK IS COMPLETED.

NOTE: 2
THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED WHERE EXISTING STRUCTURE TO REMAIN WILL BE AFFECTED BY DEMOLITION AND WHERE SHOWN ON PLANS.

NOTE: 3
THE EXACT EXTENT OF DEMOLITION SHALL BE FIELD VERIFIED AT THE SITE BY THE CONTRACTOR.

NOTE: 4
THE CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DEMOLITION DRAWINGS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER.

NOTE: 5
THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR DEMOLITION AND REMOVAL OPERATIONS. DEMOLITION AND REMOVAL SHALL BE PERFORMED IN A SAFE, CAREFUL, AND ORDERLY MANNER TO PREVENT HAZARDS TO PERSONS AND DAMAGE TO PROPERTY.

NOTE: 6
NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO FALL. NO DEBRIS SHALL BE ALLOWED TO BE DROPPED EXCEPT BY METHODS WHICH WILL NOT DAMAGE ANY PORTIONS OF THE STRUCTURE THAT REMAINS.

NOTE: 7
DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN INDICATED IN THE DRAWINGS. DO NOT DAMAGE OR CUT THE STRUCTURE THAT REMAINS OR MATERIAL TO BE RE-USED.

MISCELLANEOUS:

NOTE: 1
ITEMS AND CONDITIONS NOTED OR IDENTIFIED IN SECTIONS AND DETAILS APPLY TO AREAS SIMILAR IN CONDITION TO THOSE DENOTED BY THE SECTION CUT OR DETAIL MARK.

NOTE: 2
THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION.

NOTE: 3
SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS MUST BE SUBMITTED BY THE CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM COLUMBIA ENGINEERING, INC., WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND/OR THE DESIGN OF THE PROJECT.

NOTE: 4
REPRODUCTION OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

NOTE: 5
SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER REVIEW:
a. CONCRETE/GROUT MIX DESIGNS
b. CONCRETE/MASONRY REINFORCING STEEL
c. CONSTRUCTION/CONTROL JOINT LAYOUT FOR SLABS ON GRADE
d. STRUCTURAL STEEL
e. METAL DECK
f. MASONRY WALL CONTROL JOINT LAYOUT
SEE SPECIFICATIONS FOR ADDITIONAL REQUIRED SUBMITTALS.

NOTE: 6
THE FOLLOWING ITEMS SHALL BE DESIGNED FOR LOADS INDICATED IN THE DRAWINGS AND IN THE LOCAL BUILDING CODE:
a. CURTAINWALL SYSTEMS
b. COLD-FORMED FRAMING
c. METAL STAIRS
d. HANDRAILS AND GUARDRAILS
e. LADDERS
f. CANOPIES
g. TEMPORARY SHORING
h. HELICAL PILES
i. UNDERPINNING
SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND SUBMITTED FOR REVIEW.

NOTE: 7
ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER, AND SHALL BE MARKED "REVIEWED" OR "REVIEWED AS NOTED."

NOTE: 8
THE BUILDING FRAME IS NOT SELF-SUPPORTING UNTIL THE ENTIRE STRUCTURAL SYSTEM HAS BEEN INSTALLED. TEMPORARY BRACING MUST BE PROVIDED BY THE CONTRACTOR TO SUPPORT THE FRAME UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.

NOTE: 9
LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE. A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOADS FOR 28 DAYS, UNLESS THE DESIGN STRENGTH IS ACHIEVED EARLIER BASED ON FIELD CURED CYLINDERS.

NOTE: 10
THE CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS. CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., AS PART OF THE CONTRACTOR'S WORK, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 11
ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 (EXCEPTIONS NOTED SHALL NOT BE PERMITTED) AND ALL LOCAL ORDINANCES. INSPECTIONS REQUIRED SHALL BE PER THE STATEMENT OF SPECIAL INSPECTIONS NOTED ON THIS SHEET. THE OWNER SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF HIS DESIGN SERVICE. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS.

MISCELLANEOUS (CONTINUED):

NOTE: 12
THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE IN THE CONSTRUCTION OF WORK SIMILAR IN NATURE TO THIS PROJECT.

NOTE: 13
LEGAL USE OF DOCUMENTS
THE PLANS, SPECIFICATIONS AND OTHER INFORMATION CONTAINED IN THESE DRAWINGS (COLLECTIVELY THE "DRAWINGS") WERE PREPARED BY COLUMBIA ENGINEERING, INC. AND ARE INSTRUMENTS OF PROFESSIONAL SERVICES RENDERED AND DELIVERED PURSUANT TO THE TERMS AND CONDITIONS OF A WRITTEN AGREEMENT (THE "AGREEMENT") ONLY TO THE RECIPIENT NAMED THEREIN. ANY USE OF THE DRAWINGS BY ANY PARTY WHICH IS INCONSISTENT WITH THE TERMS AND CONDITIONS OF THE AGREEMENT IS EXPRESSLY PROHIBITED. COLUMBIA ENGINEERING, INC. EXPRESSLY RESERVES ITS COPYRIGHT AND ALL INTELLECTUAL PROPERTY AND OTHER RIGHTS IN THE DRAWINGS. NO PORTION OF THE DRAWINGS ARE TO BE REPRODUCED, CHANGED OR OTHERWISE USED IN ANY FORM OR MANNER WHATSOEVER WHICH IS INCONSISTENT WITH EITHER THE AGREEMENT OR THE PURPOSES FOR WHICH THEY WERE ORIGINALLY PREPARED, NOR ARE THEY TO BE DEEMED ASSIGNED TO ANY PERSON OR ENTITY WITHOUT OBTAINING THE EXPRESS PRIOR WRITTEN PERMISSION AND CONSENT OF COLUMBIA ENGINEERING, INC. THE RECIPIENT OF THE DRAWINGS AGREES TO INDEMNIFY AND HOLD HARMLESS COLUMBIA ENGINEERING, INC., ITS EMPLOYEES, OFFICERS, DIRECTORS AND AGENTS, FROM AND AGAINST ANY AND ALL DAMAGES WHICH ARISE OUT OF OR IN CONNECTION WITH ANY VIOLATION OF THE FOREGOING.

DESIGN CODES:

INTERNATIONAL BUILDING CODE:
IBC 2018

INTERNATIONAL EXISTING BUILDING CODE:
IEBC 2018

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:
ACI 318-14

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES:
TMS 402/602-16

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS:
AISC 15TH EDITION 360-16

SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS:
AISI S100-16/AISI S200-16

DESIGN LOADS:
IBC RISK CATEGORY II

FLOOR LIVE LOADS:
SLAB ON GRADE ----- 100 PSF

ROOF LOADS:
LIVE LOAD = 30 PSF
GROUND SNOW LOAD, p_g = 30 PSF
FLAT ROOF SNOW LOAD, p_f = 21 PSF
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
THERMAL FACTOR, C_t = 1.0

SEISMIC DESIGN DATA:
SOIL SITE CLASS D
SEISMIC DESIGN CATEGORY B
SEISMIC IMPORTANCE FACTOR, I_e = 1.0

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
S_S = 0.141
S_1 = 0.043

DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
S_{DS} = 0.151
S_{D1} = 0.069

BASIC SEISMIC FORCE RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT, R = 3.5

SEISMIC RESPONSE COEFFICIENT, C_s = 0.043
DESIGN BASE SHEAR = 9.5k

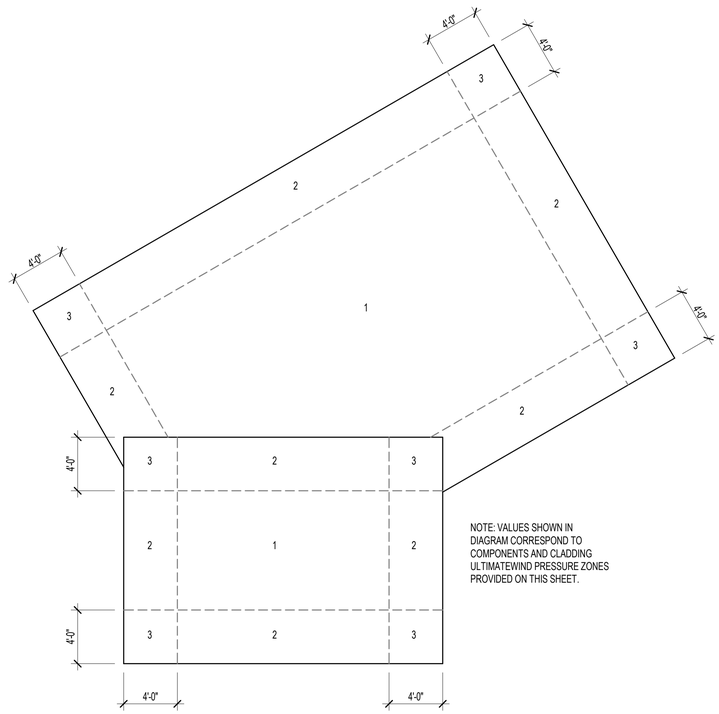
ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE

WIND LOADS:
DESIGN WIND SPEED:
V_{ult} = 120 MPH (3 SECOND GUST)

WIND EXPOSURE B
INTERNAL PRESSURE COEFFICIENT, GC_{pi} = +/-0.18

EFFECTIVE WIND AREA	COMPONENTS & CLADDING: ULTIMATE WIND PRESSURE				
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
10 FT²	-41.3 PSF 16.0 PSF	-54.4 PSF 16.0 PSF	-74.2 PSF 16.0 PSF	-25.7 PSF 23.7 PSF	-31.6 PSF 23.7 PSF
50 FT²	-34.9 PSF 16.0 PSF	-46.3 PSF 16.0 PSF	-57.9 PSF 16.0 PSF	-23.2 PSF 21.3 PSF	-26.7 PSF 21.3 PSF
100 FT²	-32.2 PSF 16.0 PSF	-42.8 PSF 16.0 PSF	-50.9 PSF 16.0 PSF	-22.2 PSF 20.2 PSF	-24.6 PSF 20.2 PSF
200 FT²	-29.5 PSF 16.0 PSF	-39.3 PSF 16.0 PSF	-43.9 PSF 16.0 PSF	-21.1 PSF 19.2 PSF	-22.5 PSF 19.2 PSF
500 FT²	-25.9 PSF 16.0 PSF	-34.7 PSF 16.0 PSF	-34.7 PSF 16.0 PSF	-19.8 PSF 17.8 PSF	-19.8 PSF 17.8 PSF

NOTE: REFER TO ROOF WIND PRESSURE DIAGRAM ON THIS SHEET FOR ZONE DEFINITIONS AT NEW ROOF AND ASCE 7-16, DIAGRAM 30.3-1 FOR WALLS.



NOTE: VALUES SHOWN IN DIAGRAM CORRESPOND TO COMPONENTS AND CLADDING ULTIMATEWIND PRESSURE ZONES PROVIDED ON THIS SHEET.

ROOF WIND PRESSURE DIAGRAM

NOT TO SCALE

LINTEL SCHEDULE

MARK	SIZE	BEARING PLATE	REMARKS
L1	W8x18 WITH BOTTOM PLATE	6"x6"x1/2"	SEE PLAN FOR ANCHORAGE AT BRICK MASONRY
L1A	W16x36 WITH HUNG PLATE	6"x8"x3/4"	

NOTES:
1. REFER TO MASONRY NOTES ON SHEET S0.1 FOR LINTELS NOT REFERENCED ON PLANS.
2. INSTALL LOOSE ANGLE LINTELS OVER ALL MECHANICAL DUCT OPENINGS THROUGH MASONRY WALLS. REFER TO MASONRY NOTE 5 ON SHEET S0.1 FOR SIZE.
3. BEARING PLATE SIZE APPLIES TO EACH END UNLESS NOTED OTHERWISE.
4. REFER TO SHEET S3.2 FOR LINTEL CONFIGURATIONS AND BEAM BEARING DETAILS.
5. FIRST COURSE OF CMU ABOVE STEEL BEAM SHALL BE GROUTED SOLID UNLESS NOTED OTHERWISE.
6. LINTELS WITH HUNG PLATE SHALL HAVE BOTTOM OF BEAM LOCATED 8" ABOVE OPENING UNLESS NOTED OTHERWISE.
7. LINTELS WITH CLEAR SPANS GREATER THAN 6'-4" SHALL HAVE 1/2" DIAMETER x 4" LONG HEADED STUDS WELDED TO THE TOP FLANGE AT 24"o.c.
8. LINTELS SHALL BE POSITIONED AT THE CENTERLINE OF THE CMU WALL UNLESS NOTED OTHERWISE.

BEARING PLATE SCHEDULE

MARK	SIZE	REMARKS
BP1	6"x6"x1/2"	
BP2	6"x8"x3/4"	
BP3	6"x10"x1"	SKEWED BEAM, SEE PLAN
BP4	6"x10"x7/8"	
BP5	8"x9"x1"	

NOTES:
1. REFER TO SHEET S3.2 OR SECTIONS FOR BEAM BEARING DETAILS.
2. FIRST DIMENSION SHALL BE ORIENTED PARALLEL TO BEAM OR JOIST SPAN UNLESS NOTED OTHERWISE.

COLUMN SCHEDULE

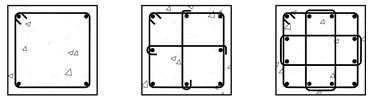
MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C1	HSS 5"x5"x5/16"	14"x14"x3/4"	(4) 3/4" DIAMETER ASTM F1554

NOTES:
1. ALL HSS COLUMNS SHALL RECEIVE A 5/8" THICK CAP PLATE UNLESS NOTED OTHERWISE.

CONCRETE PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	REMARKS
P20	20"x20"	8-#5	

TIE PATTERNS:



4 LONGITUDINAL BARS | 8 LONGITUDINAL BARS | 12 LONGITUDINAL BARS

NOTES:
1. ALTERNATE THE 180 DEGREE HOOKED END OF ALL SINGLE-LEG TIES.
2. ALL TIES SHALL BE PLACED WITH 1 1/2" CONCRETE COVER UNLESS NOTED OTHERWISE.

PILE CAP SCHEDULE

MARK	SIZE	THICKNESS	REINFORCEMENT
F50	5'-0"x5'-0"	1'-4"	6-#5 EACH WAY TOP AND BOTTOM WITH HOOKED ENDS

WALL FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCEMENT
WF26	2'-6" CONTINUOUS	1'-4"	3-#5 CONTINUOUS TOP AND BOTTOM
WF30	3'-0" CONTINUOUS	1'-0"	REFER TO S1.0
WF36	3'-6" CONTINUOUS	1'-0"	REFER TO S1.0
WF44	4'-4" CONTINUOUS	1'-0"	REFER TO S1.0

MASONRY PIER SCHEDULE

MARK	WIDTH	VERTICAL REINFORCEMENT	REMARKS
MP16	16"	1-#5 EACH FACE	10" CMU
MP16A	16"	1-#6 EACH FACE	8" CMU/12" CMU
MP24	24"	2-#5	8" CMU
MP24A	24"	2-#5 EACH FACE	10" CMU
MP24B	24"	2-#5 EACH FACE	REFER TO S1.0

NOTES:
1. MASONRY PIERS SHALL BE GROUTED SOLID.
2. REINFORCEMENT EXTENDS FULL HEIGHT OF THE PIER.
3. VERTICAL REINFORCEMENT SHALL BE PLACED TO AVOID LINTELS AND BEARING PLATES.
4. NO MASONRY CONTROL JOINTS ARE PERMITTED IN THE MASONRY PIERS.
5. PROVIDE DOWELS INTO FOOTINGS TO MATCH VERTICAL REINFORCING.

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STATE OF MARYLAND
LORENZO H. CROOM
No. 14479
PROFESSIONAL ENGINEER

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GENERAL NOTES AND SCHEDULES

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INSPECTION TABLES

STATEMENT OF SPECIAL INSPECTIONS:

NOTE 1:
INSPECTION OR TESTING SHALL BE PROVIDED FOR ALL MATERIAL, COMPONENTS AND WORK LISTED IN THE TABLES BELOW.

NOTE 2:
DEFINITIONS:
a. CONTINUOUS INSPECTION: INDICATES SPECIAL INSPECTOR SHALL BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK.
b. PERIODIC INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING OF ALL WORK INDICATED, BUT THAT SPECIAL INSPECTOR IS NOT REQUIRED TO BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK. PERIODIC INSPECTION DOES NOT MEAN RANDOM INSPECTION IS ALLOWED.
c. RANDOM INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING, AS NEEDED, TO INSURE PROPER PERFORMANCE OF THE TASK BY THE CONTRACTOR.

SOILS

INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS AND/OR CONCRETE UNDERPINS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

DEEP FOUNDATION ELEMENTS

INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	CONTINUOUS
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	CONTINUOUS
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	CONTINUOUS
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	CONTINUOUS

CONCRETE

INSPECTION TASK	TYPE OF INSPECTION
1. INSPECTION OF REINFORCING STEEL FOR SIZE, QUANTITY AND PLACEMENT.	PERIODIC
2. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC
3. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (FOLLOW MANUFACTURERS WRITTEN INSTALLATION REQUIREMENTS). a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS b. ALL OTHER CONDITIONS	 a. CONTINUOUS b. PERIODIC
4. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. FOR LIGHTWEIGHT CONCRETE, PERFORM UNIT WEIGHT TESTS.	CONTINUOUS
6. INSPECTION OF CONCRETE PLACEMENT.	CONTINUOUS
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
8. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED AND FOR CONFORMANCE WITH FORMWORK DESIGN.	PERIODIC
10. MEASURE F (F) AND F (L) TOLERANCE FOR FLOORS.	PERIODIC

MASONRY

INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC
2. VERIFICATION OF f'_m a. PRIOR TO CONSTRUCTION b. DURING CONSTRUCTION EVERY 5,000 SQUARE FEET	 a. PERIODIC b. N/A
3. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS c. SAMPLE PANEL CONSTRUCTION	 a. PERIODIC b. PERIODIC c. PERIODIC
4. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS c. PROPORTIONS OF SITE-PREPARED GROUT	 a. PERIODIC b. PERIODIC c. PERIODIC
5. VERIFY COMPLIANCE DURING CONSTRUCTION: a. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION b. SIZE AND LOCATION OF STRUCTURAL MEMBERS c. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F) e. PLACEMENT OF GROUT f. SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO PROJECT SITE g. PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	 a. PERIODIC b. PERIODIC c. PERIODIC d. PERIODIC e. CONTINUOUS f. PERIODIC g. N/A
6. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	PERIODIC
7. INSTALLATION OF POST INSTALLED ANCHORS.	CONTINUOUS

STEEL - PRIOR TO WELDING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	PERIODIC	PERIODIC
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PERIODIC	PERIODIC
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	RANDOM	RANDOM
4. WELDER IDENTIFICATION SYSTEM	RANDOM	RANDOM
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOF FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	RANDOM	PERIODIC
6. CONFIGURATION AND FINISH OF ACCESS HOLES	RANDOM	PERIODIC
7. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	RANDOM	RANDOM
8. CHECK WELDING EQUIPMENT	RANDOM	NONE

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - DURING WELDING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. USE OF QUALIFIED WELDERS	RANDOM	RANDOM
2. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	RANDOM	RANDOM
3. NO WELDING OVER CRACKED TACK WELDS	RANDOM	RANDOM
4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITH LIMITS • PRECIPITATION AND TEMPERATURE	RANDOM	RANDOM
5. WPS FOLLOWED FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYP/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM/MAXIMUM) • PROPER POSITION (F,V,H, OH)	RANDOM	CONTINUOUS
6. WPS FOLLOWED FOR SINGLE - PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYP/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM/MAXIMUM) • PROPER POSITION (F,V,H, OH)	RANDOM	RANDOM
7. WELDING TECHNIQUES FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	CONTINUOUS
8. WELDING TECHNIQUES FOR SINGLE-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - AFTER WELDING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. WELDS CLEANED	PERIODIC	PERIODIC
2. SIZE, LENGTH AND LOCATION OF WELDS	PERIODIC	PERIODIC
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD / BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	PERIODIC	PERIODIC
4. ULTRASONICALLY TEST FULL PENETRATION GROOVE WELDS	PERIODIC	PERIODIC
5. ARC STRIKES	PERIODIC	PERIODIC
6. K - AREA (1*)	PERIODIC	PERIODIC
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	PERIODIC	PERIODIC
8. REPAIR ACTIVITIES	PERIODIC	PERIODIC
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERIODIC	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR
(1*) - DENOTES WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN THREE INCHES OF THE WELD.

STEEL - PRIOR TO BOLTING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	RANDOM	PERIODIC
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	RANDOM	RANDOM
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	RANDOM	RANDOM
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	RANDOM	RANDOM
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	RANDOM	RANDOM
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	CONTINUOUS	RANDOM
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - DURING BOLTING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	PERIODIC	PERIODIC
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	RANDOM	RANDOM
3. PRETENSIONED AND SLIP-CRITICAL JOINTS INSTALLED USING ONE OF THE FOLLOWING METHODS: • DIRECT-TENSION-INDICATOR WASHER METHOD • TWIST-OFF TYPE TENSION CONTROL BOLT METHOD	PERIODIC	PERIODIC
4. FASTENERS COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	RANDOM	RANDOM
5. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - AFTER BOLTING

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERIODIC	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. PLACEMENT AND INSTALLATION OF STEEL DECK	PERIODIC	PERIODIC
2. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	PERIODIC	PERIODIC
3. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	PERIODIC	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - OTHER

INSPECTION TASK	TYPE OF INSPECTION QC	SI
1. COMPLIANCE OF THE FABRICATED STEEL WITH THE SHOP DRAWINGS	PERIODIC	NONE
2. SETTING OF ANCHOR BOLTS, BEARING PLATES AND EMBEDDED ITEMS PRIOR TO PLACEMENT OF CONCRETE	RANDOM	PERIODIC
3. STRUCTURAL MEMBERS FOR PLUMBNESS, ELEVATION AND ALIGNMENT	RANDOM	PERIODIC
4. COMPLIANCE OF THE ERECTED STEEL FRAME WITH ERECTION DRAWINGS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	PERIODIC	NONE
5. COMPLIANCE OF THE ERECTED STEEL FRAME WITH CONTRACT DOCUMENTS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	NONE	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL DECK

INSPECTION TASK	TYPE OF INSPECTION
1. MATERIAL VERIFICATION: a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. b. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC
2. VERIFY WELDING CONSUMABLES AND FASTENERS TO BE USED.	PERIODIC
3. VERIFY DECK ALIGNMENT AND SUPPORT	PERIODIC
4. VERIFY FLOOR AND ROOF DECK ATTACHMENT: a. WELDS TO SUPPORTING MEMBERS b. SIDE LAP SCREWS AND WELDS	PERIODIC
5. VERIFY TOUCH-UP GALVANIZATION APPLIED TO WELDS.	PERIODIC

COLD-FORMED STEEL

INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY SIZE AND GAGE OF FRAMING.	PERIODIC
2. VERIFY PLUMBNESS, ALIGNMENT AND PROPER BEARING OF ELEMENTS	PERIODIC
3. VERIFY COLD-FORMED FRAMING IS PROPERLY FASTENED TOGETHER	PERIODIC
4. VERIFY CONNECTIONS TO STRUCTURAL FRAME	PERIODIC
5. VERIFY TOUCH-UP GALVANIZATION IS APPLIED TO WELDS	PERIODIC

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LORENZO H. CROOM
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INSPECTION TABLES

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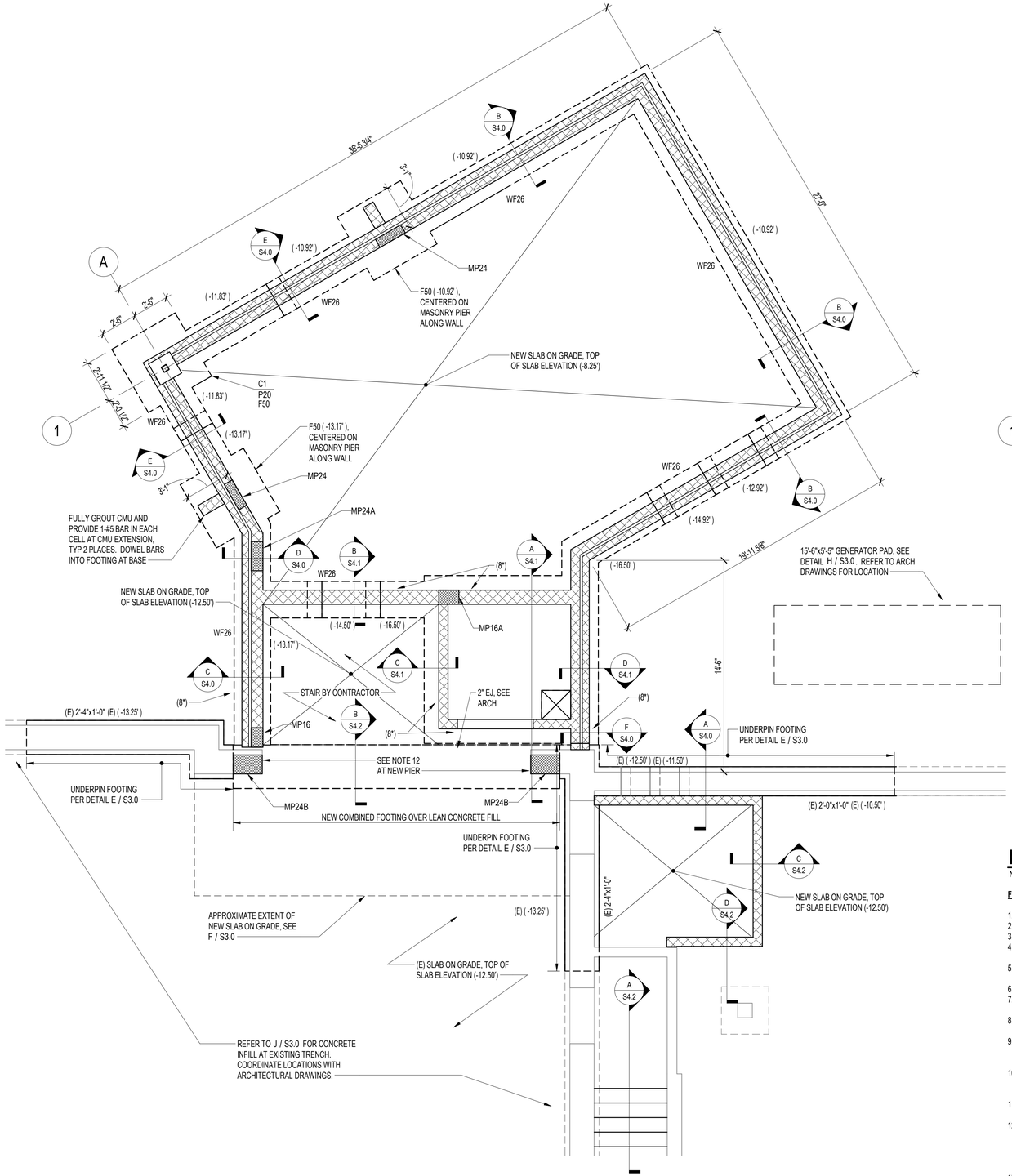
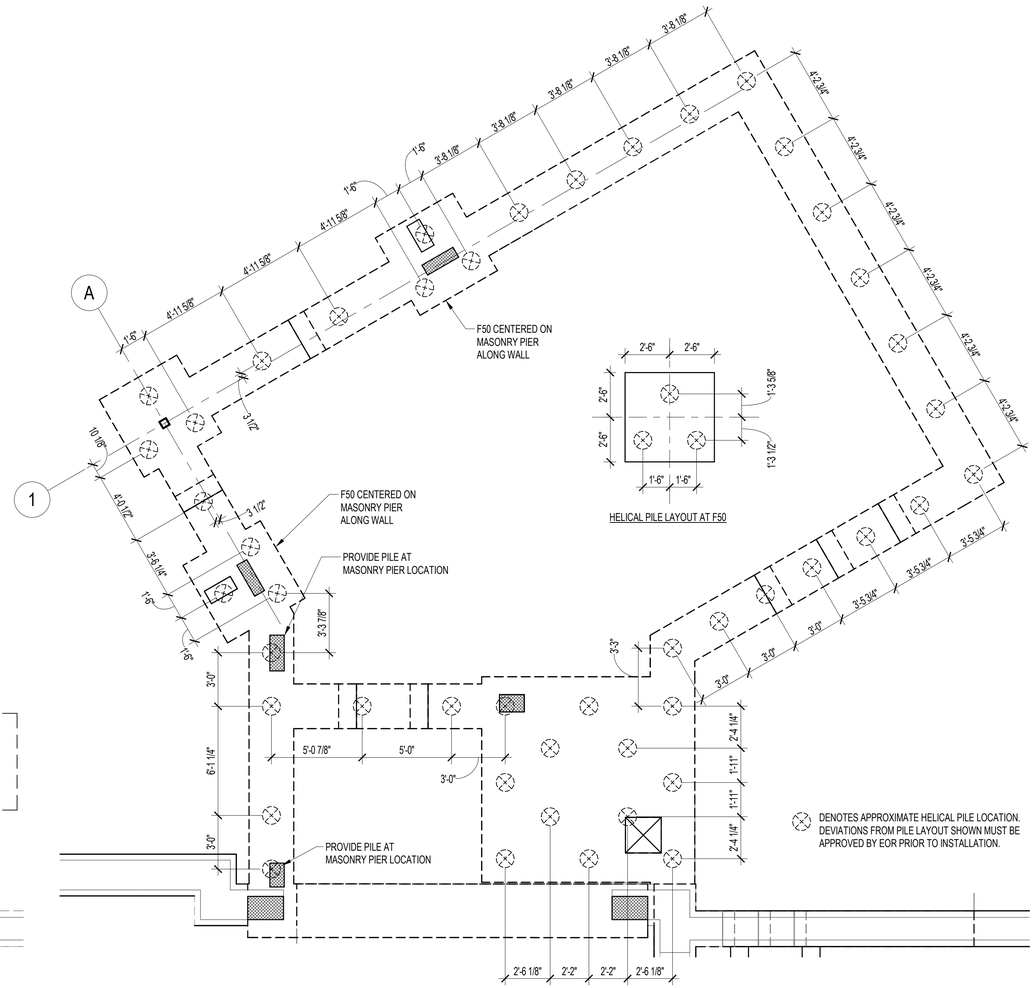


LOWER LEVEL FOUNDATION AND SLAB ON GRADE PLAN

SCALE: 1/4" = 1'-0"



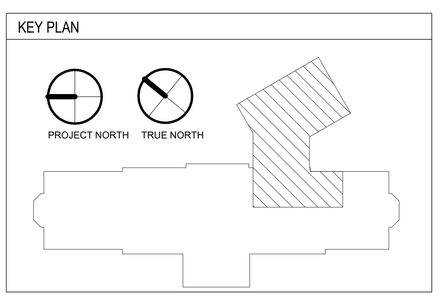
HELICAL PIER LAYOUT AT FOUNDATION

NOT TO SCALE

FOUNDATION, SLAB ON GRADE, AND HELICAL PIER NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. DATUM ELEVATION (0.00') CORRESPONDS TO EXISTING LEVEL 1 FLOOR ELEVATION/TOP OF SLAB (EL. 417.9') AS APPLICABLE.
4. TOP OF EXISTING FOOTING ELEVATION IS SHOWN THUS: (E) (....') ON PLAN AND MEASURED FROM DATUM ELEVATION (0.00'). DEPTH OF EXISTING FOOTINGS TO BE FIELD VERIFIED.
5. NEW SLAB ON GRADE SHALL BE 5" THICK NORMAL WEIGHT CONCRETE (f'c=4000 PSI) REINFORCED WITH 6"x6", W2.1xW2.1 W.W.F. ON 15 MIL POLYETHYLENE VAPOR BARRIER OVER A 4" THICK LAYER OF COARSE GRANULAR MATERIAL.
6. TOP OF CONCRETE PIER ELEVATION SHALL BE 8" BELOW TOP OF SLAB UNLESS NOTED OTHERWISE: (....) ON PLAN.
7. TOP OF NEW WALL FOOTINGS SHALL BE 2'-0" BELOW TOP OF SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE THUS: (....') ON PLAN AND MEASURED FROM DATUM ELEVATION (0.00').
8. (8") DENOTES AREA WHERE SOIL MAY NOT BE BACKFILLED AGAINST RETAINING WALL UNTIL SLAB BRACING WALL HAS BEEN INSTALLED AND HAS REACHED DESIGN STRENGTH. WALLS SHALL BE SHORED BY CONTRACTOR DURING CONSTRUCTION.
9. FOOTINGS AT THE ADDITION ARE DESIGNED TO BE SUPPORTED ON HELICAL PILES WITH AN ALLOWABLE COMPRESSIVE LOAD OF 20K AND AN ALLOWABLE TENSILE LOAD OF 10K. PILES SHALL ALSO HAVE LATERAL CAPACITY OF AT LEAST 1.25K. ALL PILES SHALL BE LATERALLY BRACED PER IBC REQUIREMENTS.
10. PILE LAYOUT SHOWN IS APPROXIMATE. CHANGES TO THE PILE LAYOUT MUST BE REVIEWED AND APPROVED BY CEI PRIOR TO INSTALLATION. MINIMUM SPACING OF HELICAL PILES IS TAKEN AS 3'-0" PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
11. PILE LOCATIONS SHOWN IN PLAN CORRESPOND TO CENTERLINES OF WALL FOOTINGS. CONTRACTOR MAY STAGGER PILES FOR STABILITY ALONG WALL FOOTINGS IF PREFERRED.
12. FIELD VERIFY WALL CONSTRUCTION AT NEW PIER. EXISTING CONSTRUCTION IS ASSUMED TO BE SOLID BRICK MASONRY WITH THICKNESS VARYING ALONG HEIGHT. PIER THICKNESS ALONG THE HEIGHT SHALL BE EQUAL TO THE EXISTING TOTAL WALL THICKNESS LESS THE THICKNESS OF FACE BRICK AT EACH LEVEL. MINIMUM PIER THICKNESS IS 12" CMU. PIER SHALL BE FULLY GROUTED AND REINFORCED AS INDICATED IN THE MASONRY PIER SCHEDULE ON S0.2. NEW PIER SHALL BE 2'-0" WIDE AND SHALL BE TOOTHED INTO EXISTING WALL CONSTRUCTION WHERE IT ABUTS THE EXISTING STRUCTURE.
13. ALL UNDERPINNING REQUIRES SHORING OF THE EXISTING STRUCTURE BY CONTRACTOR. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COMPUTATIONS AND DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW. APPROXIMATE EXTENTS OF UNDERPINNING ARE SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL EXTENTS OF UNDERPINNING MUST BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.
14. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A MASONRY CONTROL JOINT LAYOUT AND SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW. THE SUBMITTAL SHALL INCLUDE A DIMENSIONED LAYOUT OF ALL VERTICAL CONTROL JOINTS IN MASONRY WALLS AND MASONRY OR BRICK VENEER.

KEY PLAN



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FOUNDATION PLANS

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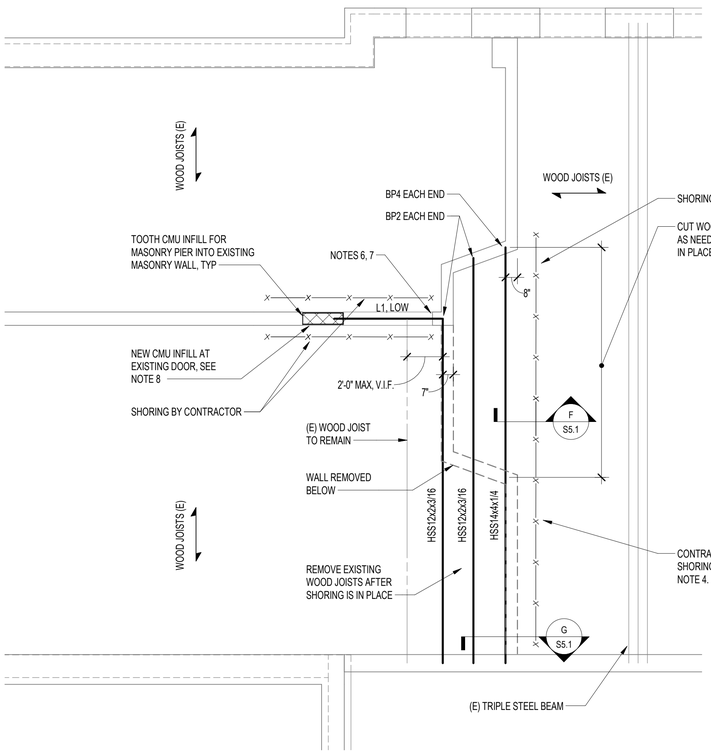
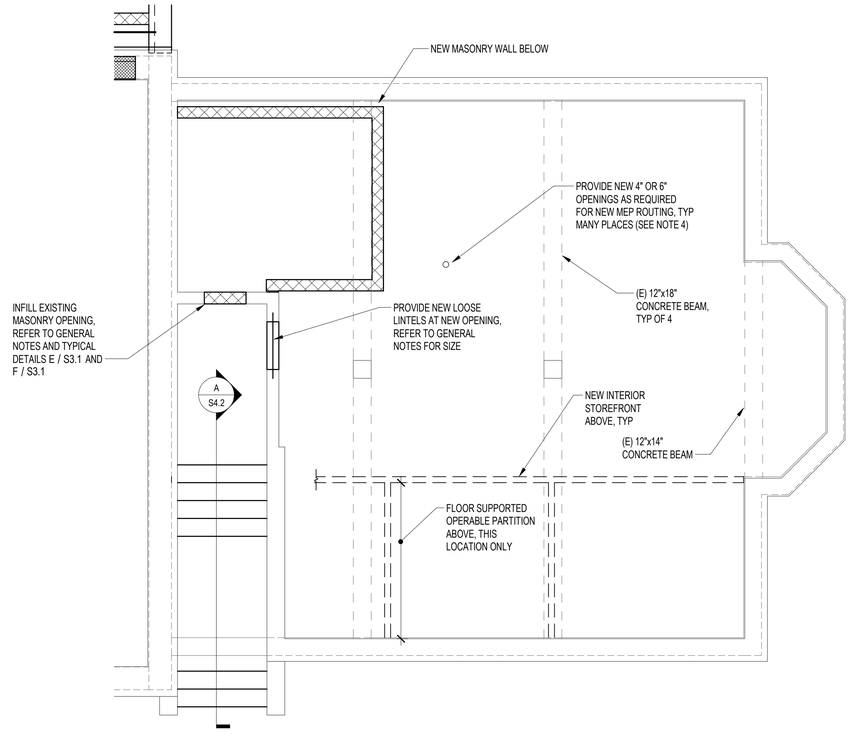


EXISTING FIRST FLOOR FRAMING PLAN - NORTH

SCALE: 1/4" = 1'-0"

FLOOR FRAMING NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. EXISTING FLOOR IS WOOD PLANKS SUPPORTED BY WOOD JOISTS AND STRUCTURAL STEEL BEAMS.
4. PROVIDE TEMPORARY SHORING OF EXISTING FLOOR FRAMING PRIOR TO PERFORMING WORK. SHORING TO BE DESIGNED BY AND ENGINEER REGISTERED IN THE STATE OF MARYLAND FOR LOADS LISTED BELOW AND SIGNED AND SEALED. SHORING TO REMAIN IN PLACE UNTIL NEW STEEL AND SUPPORTING ELEMENTS ARE FULLY INSTALLED. SHORING LOCATIONS ARE SHOWN FOR INFORMATION ONLY; IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL CONDITIONS THAT REQUIRE SHORING.
   DEAD LOAD: 20 PSF
   LIVE LOAD: 100 PSF
5. CONTRACTOR TO VERIFY DIMENSIONS IN FIELD PRIOR TO STEEL FABRICATION. MODIFICATIONS MAY BE REQUIRED TO STRUCTURAL STEEL TO ACCOMMODATE FIELD CONDITIONS.
6. DEMOLITION FOR NEW WALL OPENING MUST BE PERFORMED SUCH THAT THE BRICK MASONRY TO REMAIN FORMS A SOLID PIER AT THE WALL END. MASONRY AND MORTAR TO REMAIN MUST NOT BE LOOSE, DETERIORIATED, OR CRACKED. IF DEMOLITION RESULTS IN AN UNRELIABLE PIER CONDITION, EXISTING BRICK WILL NEED TO BE REMOVED AND A NEW PIER CONSTRUCTED IN ITS PLACE.
7. ANCHOR LINTEL/BEARING PLATE AT EXISTING MULTI-WYTHE BRICK MASONRY WALL WITH 1/2" DIAMETER HILTI HAS THREADED ROD GROUTED INTO WALL WITH HILTI HIT-HY 270 ADHESIVE. PROVIDE 6" EFFECTIVE EMBEDMENT INTO BRICK MASONRY.
8. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS OF CMU INFILL. FULLY GROUT FIRST TWO CELLS OF WALL INFILL AT LINTEL BEARING AND PROVIDE (1) #5 VERTICAL BAR ADJACENT TO LINTEL BEARING AS SHOWN IN TYPICAL DETAIL A / S3.1. GROUT VERTICAL BAR 4" INTO EXISTING SLAB WITH HILTI HIT-HY 200 ADHESIVE.

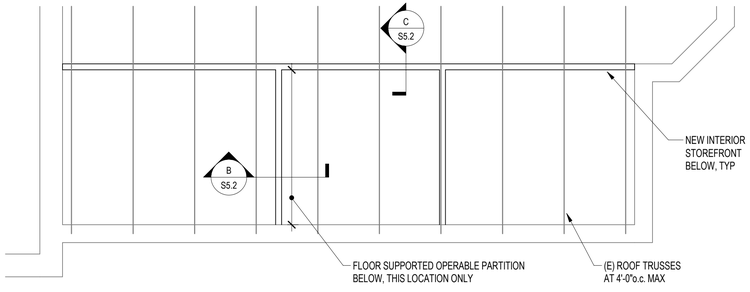


EXISTING FIRST FLOOR FRAMING PLAN - SOUTH

SCALE: 1/4" = 1'-0"

FLOOR FRAMING NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. EXISTING FLOOR CONSISTS OF 5" THICK REINFORCED CONCRETE SLAB SUPPORTED BY CONCRETE BEAMS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NEW 4" AND 6" DIAMETER OPENINGS IN EXISTING FLOORS. CLEAR DISTANCE BETWEEN OPENINGS MUST BE AT LEAST 3'-0". AT EXISTING CONCRETE FLOOR, CONTRACTOR TO SCAN FLOOR TO LOCATE EXISTING REINFORCING PRIOR TO CORE DRILLING. OPENINGS MAY NOT BE LOCATED AT OR WITHIN 6" OF EXISTING CONCRETE BEAMS, AND NO REINFORCING MAY BE CUT TO INSTALL OPENINGS. AT EXISTING WOOD FLOOR, CONTRACTOR TO LOCATE EXISTING WOOD AND STEEL FLOOR FRAMING BELOW PRIOR TO INSTALLING NEW OPENINGS. OPENINGS MUST BE LOCATED TO AVOID EXISTING FLOOR FRAMING. PROVIDE SUPPLEMENTAL BLOCKING AS NEEDED TO SUPPORT WOOD FLOOR ADJACENT TO OPENING.



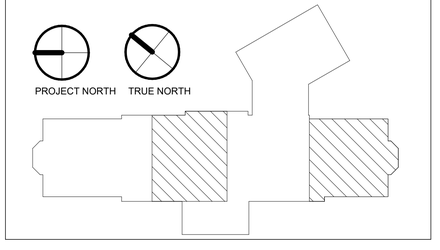
EXISTING ROOF FRAMING PLAN - SOUTH

SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. EXISTING ROOF STRUCTURE CONSISTS OF WOOD TRUSSES SPACED AT 4'-0" MAXIMUM. WOOD TRUSS CONSTRUCTION CONSISTS OF 2x8 TOP AND BOTTOM CHORDS WITH 2x6 TRUSS WEB MEMBERS.

KEY PLAN



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EXISTING BUILDING PARTIAL FRAMING PLANS

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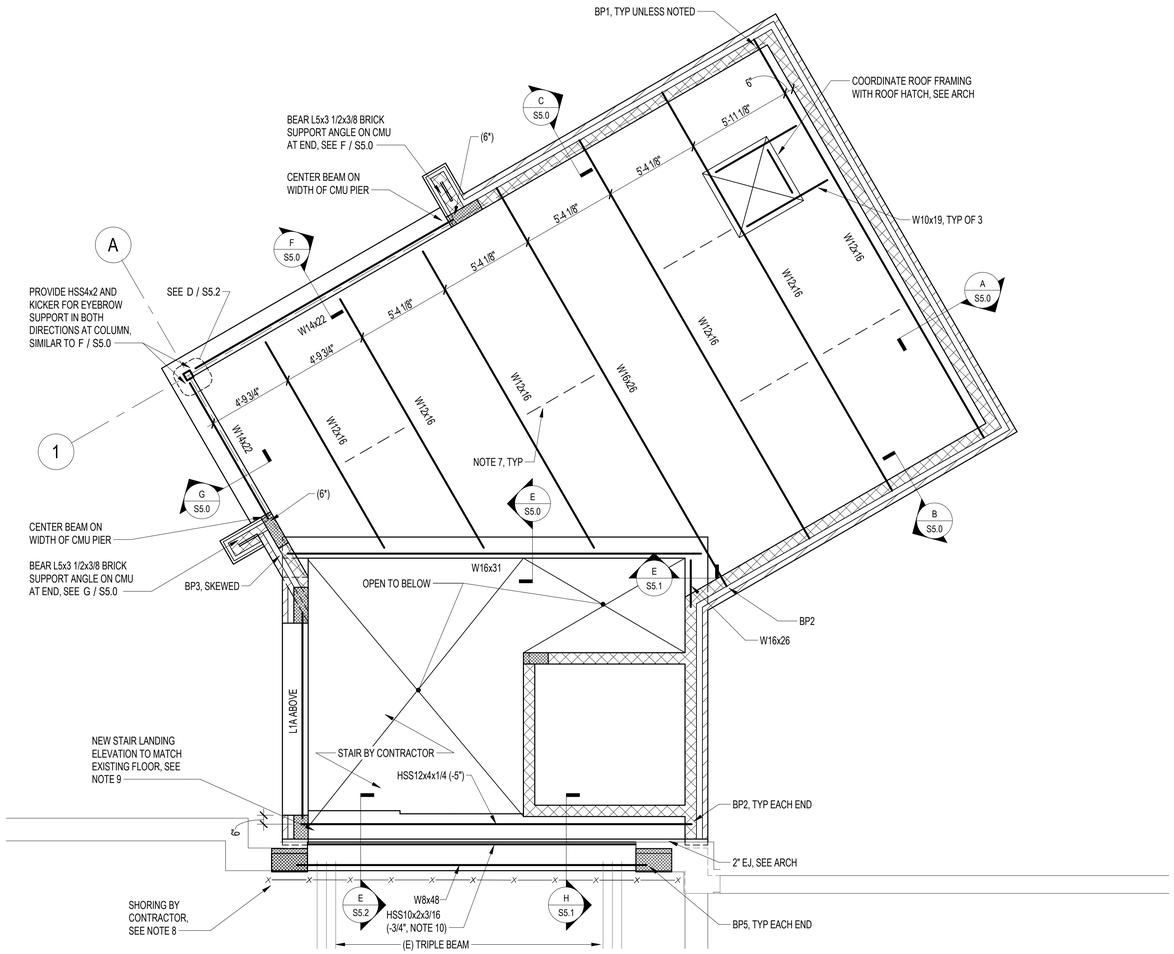
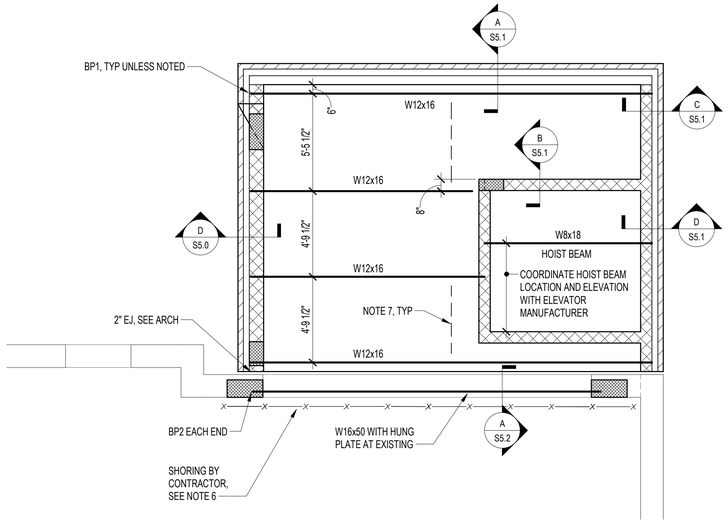


LOWER ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. NEW ROOF DECK SHALL BE 1 1/2", 20 GAGE, TYPE 'B' GALVANIZED METAL DECK (3 SPAN MINIMUM) UNLESS NOTED OTHERWISE. ATTACH DECK TO SUPPORTING ROOF MEMBERS WITH 3/4" PUDDLE WELDS, 36/4 CONNECTION PATTERN WITH #10 SIDELAP SCREWS AT 8" o.c.
4. UNLESS NOTED OTHERWISE, TOP OF STEEL (UNDERSIDE OF METAL DECK) SHALL BE (+4.50') MEASURED FROM DATUM ELEVATION (0.00').
5. PROVIDE 4"x3"x5/16" ANGLE (LLV) FRAME (4 SIDES) AROUND OPENINGS WITH ONE SIDE LARGER THAN 1'-0". SEE TYPICAL DETAIL B / S3.3 FOR CONNECTION DETAILS. SEE ARCHITECTUAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS.
6. AT (6"), DO NOT PROVIDE CONTROL JOINTS IN CMU AT EDGE OF OPENING. BOND BEAMS SHOWN IN F / S5.0 AND G / S5.0 MUST BE CONTINUOUS THROUGH PIER. CONTRACTOR TO SUBMIT CMU CONTROL JOINT PLAN TO CEI FOR REVIEW FOR CMU PRIOR TO CUTTING ANY JOINTS.
7. DASHED LINES ON PLAN INDICATE L2x2x1/4 CROSS BRACING. REFER TO TYPICAL DETAIL D / S3.3.
8. PROVIDE TEMPORARY SHORING OF EXISTING FLOOR FRAMING PRIOR TO PERFORMING WORK. SHORING TO BE DESIGNED BY AND ENGINEER REGISTERED IN THE STATE OF MARYLAND FOR LOADS LISTED BELOW AND SIGNED AND SEALED. SHORING TO REMAIN IN PLACE UNTIL NEW STEEL AND SUPPORTING ELEMENTS ARE FULLY INSTALLED. SHORING LOCATIONS ARE SHOWN FOR INFORMATION ONLY; IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL CONDITIONS THAT REQUIRE SHORING.
   DEAD LOAD: 20 PSF
   LIVE LOAD: 100 PSF
9. NEW FLOOR SLAB SHALL BE NORMAL WEIGHT CONCRETE OVER 1/4" STEEL BENT PLATES (5" TOTAL THICKNESS), SEE SECTION H / S5.1 TOP OF SLAB SHALL MATCH ADJACENT EXISTING FLOOR.
10. CONTRACTOR TO VERIFY ELEVATION IN FIELD. POSITION HSS SUCH THAT FLOORING ABOVE MATCHES EXISTING FLOOR LEVEL, SEE SECTION H / S5.1.



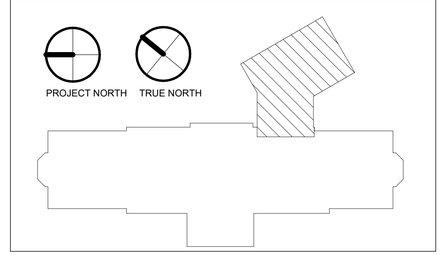
UPPER ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

UPPER ROOF FRAMING NOTES:

1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN IN BOLD.
3. NEW ROOF DECK SHALL BE 1 1/2", 20 GAGE, TYPE 'B' GALVANIZED METAL DECK (3 SPAN MINIMUM) UNLESS NOTED OTHERWISE. ATTACH DECK TO SUPPORTING ROOF MEMBERS WITH 3/4" PUDDLE WELDS, 36/4 CONNECTION PATTERN WITH #10 SIDELAP SCREWS AT 8" o.c.
4. UNLESS NOTED OTHERWISE, TOP OF STEEL (UNDERSIDE OF METAL DECK) SHALL BE (+13.00') MEASURED FROM DATUM ELEVATION (0.00').
5. PROVIDE 4"x3"x5/16" ANGLE (LLV) FRAME (4 SIDES) AROUND OPENINGS WITH ONE SIDE LARGER THAN 1'-0". SEE TYPICAL DETAIL B / S3.3 FOR CONNECTION DETAILS. SEE ARCHITECTUAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS.
6. PROVIDE TEMPORARY SHORING OF EXISTING ROOF TRUSS FRAMING PRIOR TO PERFORMING WORK. SHORING TO BE DESIGNED BY AND ENGINEER REGISTERED IN THE STATE OF MARYLAND FOR LOADS LISTED BELOW AND SIGNED AND SEALED. SHORING TO REMAIN IN PLACE UNTIL NEW STEEL AND SUPPORTING ELEMENTS ARE FULLY INSTALLED. SHORING LOCATIONS ARE SHOWN FOR INFORMATION ONLY; IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL CONDITIONS THAT REQUIRE SHORING.
   ROOF DEAD LOAD (INCLUDING TRUSSES): 20 PSF
   ROOF LIVE LOAD: 20 PSF

KEY PLAN



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ROOF FRAMING PLANS

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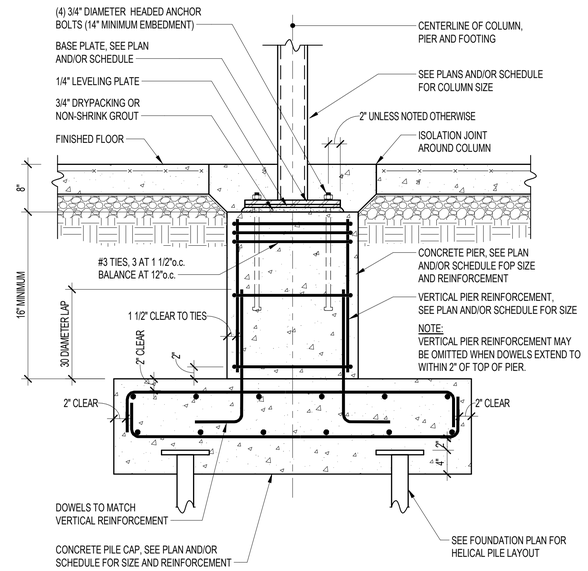
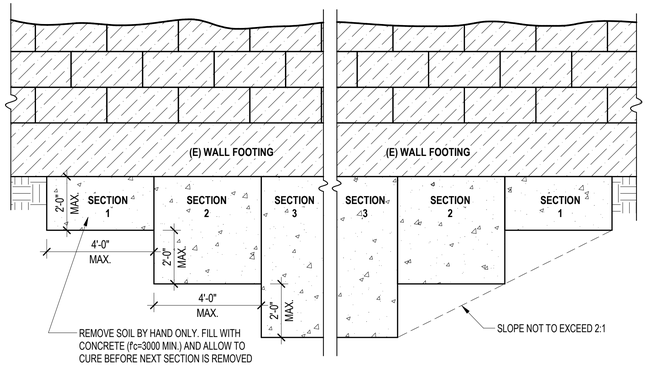


COLUMN, PILE CAP, AND PIER

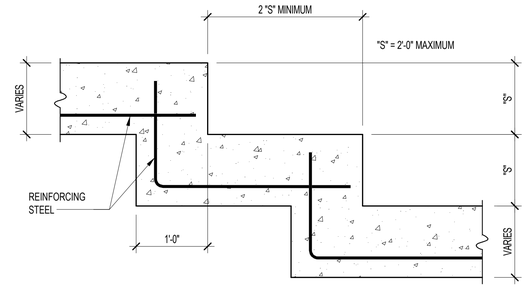
A S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



WALL FOOTING UNDERPINNING

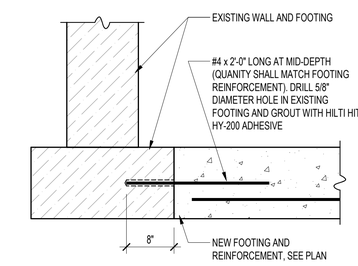
NOTES:
1. THIS DETAIL IS FOR WALL FOOTINGS ONLY. THIS DETAIL CAN NOT BE USED FOR COLUMN FOOTINGS.
2. SUCCESSIVE SECTIONS SHALL NOT BE EXCAVATED UNTIL CONCRETE IN PRIOR SECTION HAS FULLY SET AND HAS ACHIEVED MINIMUM 70% OF ITS FINAL STRENGTH.
3. THE EXISTING STRUCTURE MUST BE SHORED AS REQUIRED SUCH THAT THE EXISTING FOUNDATIONS CAN SPAN ACROSS EXCAVATED REGIONS DURING UNDERPINNING OPERATION. THIS MAY LIMIT THE PERMISSIBLE UNDERPINNING WIDTHS TO LESS THAN THE 4'-0" WIDTH SHOWN ABOVE. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. SHORING CALCULATIONS AND DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF MARYLAND AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO STARTING WORK.
4. CONTRACTOR SHALL HAVE ALL UNDERPINNING, AS PART OF THE CONTRACTOR'S WORK, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED TO EOR FOR REVIEW.

E S3.0 TYPICAL DETAIL
SCALE: 3/4" = 1'-0"



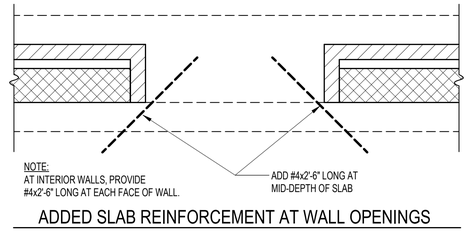
STEP FOOTING

B S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



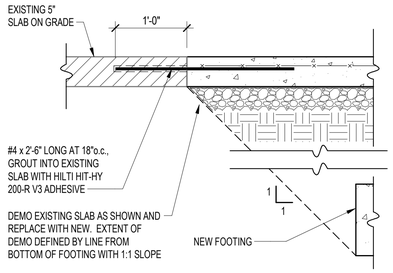
FOOTING AT EXISTING WALL

C S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



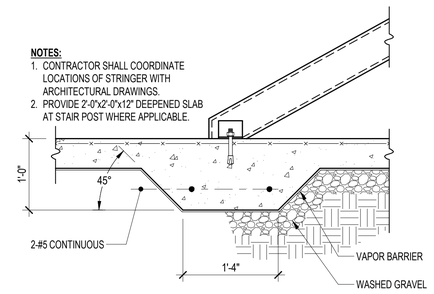
ADDED SLAB REINFORCEMENT AT WALL OPENINGS

D S3.0 TYPICAL DETAIL
SCALE: 3/4" = 1'-0"



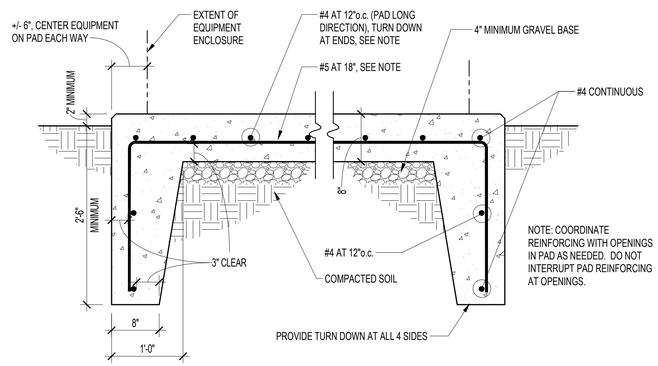
CONNECTION OF NEW SLAB TO EXISTING AT NEW FOOTING

F S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



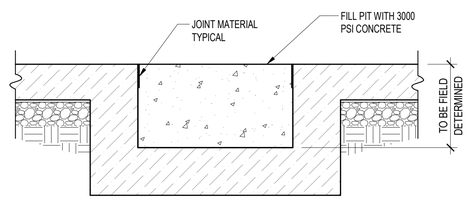
DEEPENED SLAB FOR STAIR STRINGER SUPPORT

G S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



GENERATOR PAD

H S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"



NOTE:
1. REMOVE ALL ITEMS FROM PIT AND THOROUGHLY CLEAN CONCRETE SURFACES AS REQUIRED PRIOR TO POURING CONCRETE.
2. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS.

EXISTING TRENCH INFILL

J S3.0 TYPICAL DETAIL
SCALE: 1" = 1'-0"

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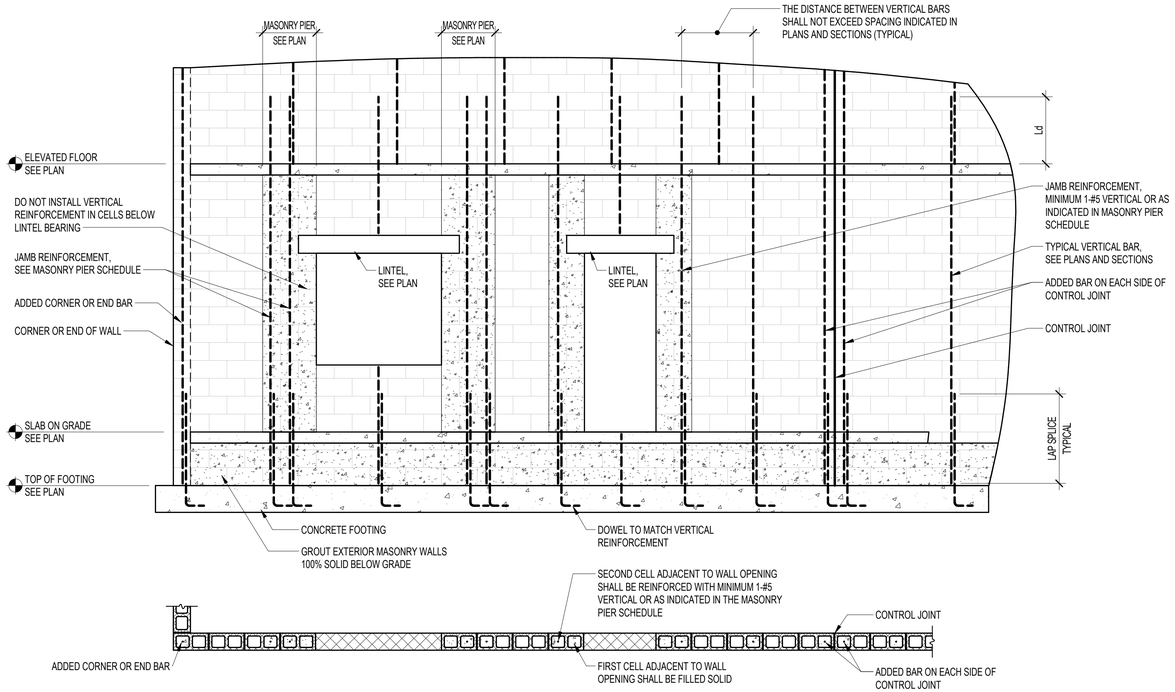
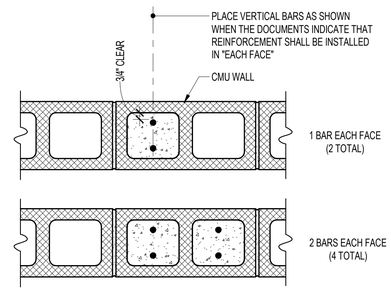


MASONRY WALL REINFORCEMENT

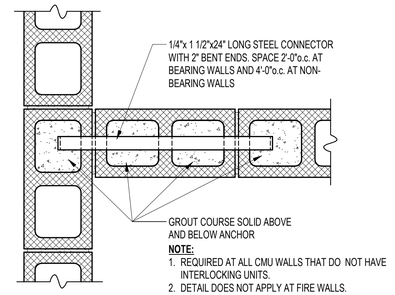
NOTES:
1. ALL REINFORCED CELLS SHALL BE GROUTED 100% SOLID.
2. REFER TO PLANS AND SECTIONS FOR SPACING OF TYPICAL VERTICAL REINFORCEMENT.
3. REFER TO GENERAL NOTES FOR PLACEMENT LIMITATIONS OF IN-WALL CONDUIT.

A TYPICAL DETAIL
A / S3.1
SCALE: 3/8" = 1'-0"



CMU REINFORCEMENT EACH FACE

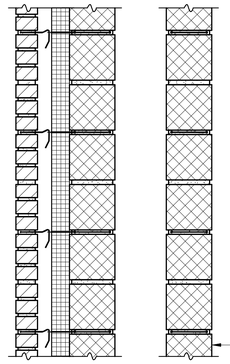
B TYPICAL DETAIL
B / S3.1
SCALE: 1 1/2" = 1'-0"



NOTE:
1. REQUIRED AT ALL CMU WALLS THAT DO NOT HAVE INTERLOCKING UNITS.
2. DETAIL DOES NOT APPLY AT FIRE WALLS.
3. HORIZONTAL JOINT REINFORCING AND VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY.

ABUTTING MASONRY WALL

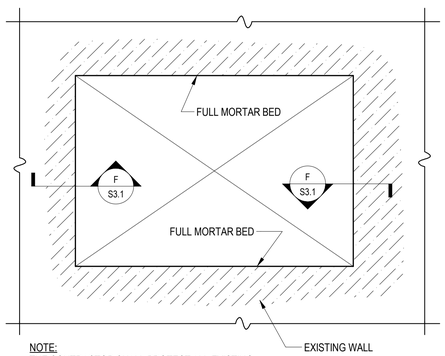
C TYPICAL DETAIL
C / S3.1
NOT TO SCALE



NOTES:
1. EXTERIOR WALLS:
   STANDARD LADDER-TYPE JOINT REINFORCEMENT (9 GAGE) SPACED VERTICALLY AT MAXIMUM 16"o.c.
2. DOUBLE WYTHE WALLS:
   STANARD LADDER-TYPE JOINT REINFORCEMENT (9 GAGE) SPACED VERTICALLY AT 16"o.c.
3. EXTERIOR WALLS:
   HEAVY LADDER-TYPE JOINT REINFORCEMENT (3/16" DIAMETER SIDE RODS AND 9 GAGE CROSS RODS) SPACED VERTICALLY AT MAXIMUM 16"o.c.
4. PARAPET WALLS:
   HEAVY LADDER-TYPE JOINT REINFORCEMENT (3/16" DIAMETER SIDE RODS AND 9 GAGE CROSS RODS) SPACED VERTICALLY AT MAXIMUM 8"o.c.
5. JOINT REINFORCEMENT FOR CAVITY WALLS SHALL INCLUDE 3/16" ADJUATABLE TIES OR TABS SPACED AT MAXIMUM 16"o.c.
6. USE PREFABRICATION CORNER AND TEE SECTIONS.
7. AN ADDITIONAL LAYER OF JOINT REINFORCEMENT SHALL BE INSTALLED AT THE TOP AND BOTTOM OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 2'-0" BEYOND THE OPENING.

WALL REINFORCING

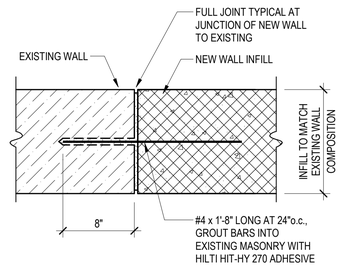
D TYPICAL DETAIL
D / S3.1
NOT TO SCALE



NOTE:
THE CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, PIPING, ETC. DURING MASONRY WORK.

MASONRY WALL INFILL

E TYPICAL DETAIL
E / S3.1
SCALE: 1" = 1'-0"



NOTES:
1. SECTION APPLIES AT SIDES OF OPENING TO BE INFILLED. ALTERNATIVELY, THE MASONRY MAY BE TOOTHED INTO THE EXISTING MASONRY PER THE MASONRY INFILL GENERAL NOTES ON S0.1.
2. PROVIDE FULL MORTAR JOINT BETWEEN EXISTING AND NEW WALL INFILL. TYPICAL AT SIDES, TOP AND BOTTOM.

F TYPICAL DETAIL
F / S3.1
SCALE: 1 1/2" = 1'-0"

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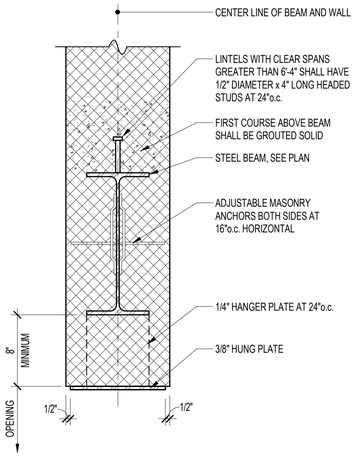
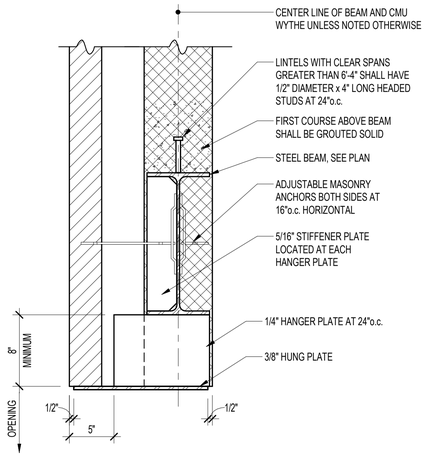
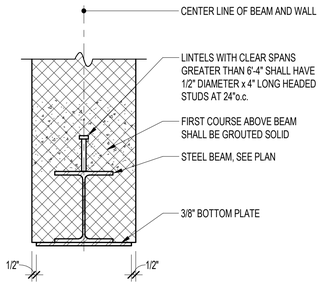


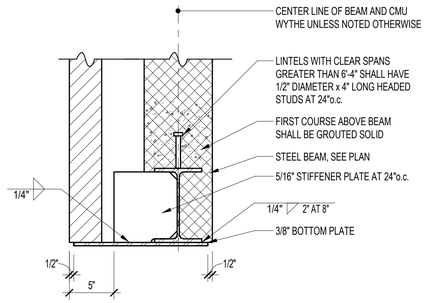
BEAM WITH HUNG PLATE



BEAM WITH HUNG PLATE IN EXTERIOR CAVITY WALL



BEAM WITH BOTTOM PLATE

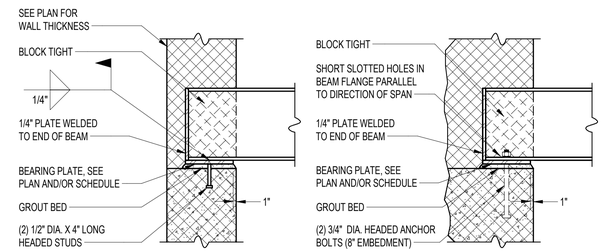


BEAM WITH BOTTOM PLATE IN EXTERIOR CAVITY WALL

NOTES:
1. BEAMS DEEPER THAN 8" SHALL HAVE ADJUSTABLE MASONRY ANCHORS BOTH SIDES AT 16"o.c. HORIZONTAL.
2. HUNG / BOTTOM PLATE SHALL STOP 1/2" SHORT OF OPENING AT EACH END.

STEEL BEAM LINTELS

A S3.2 TYPICAL DETAIL
SCALE: 1 1/2" = 1'-0"



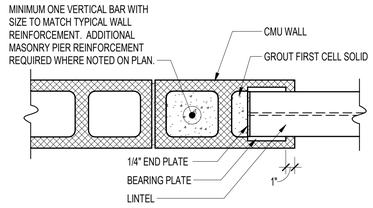
BEAM SPANNING PERPENDICULAR TO WALL

BEAM SPANNING PARALLEL TO WALL (LINTEL BEARING)

NOTES:
1.) BEAMS SHALL BEAR FULL LENGTH ON BEARING PLATE.
2.) DETAIL SIMILAR FOR CHANNELS AND TUBE SHAPES.

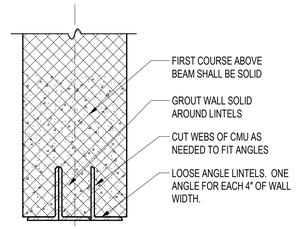
BEAM BEARING ON MASONRY WALL

B S3.2 TYPICAL DETAIL
SCALE: 1" = 1'-0"



CMU REINFORCEMENT ADJACENT TO WALL OPENING

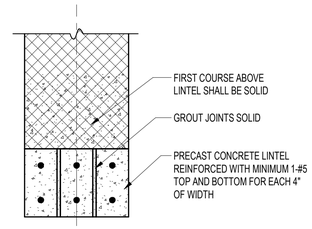
D S3.2 TYPICAL DETAIL
SCALE: 1 1/2" = 1'-0"



LOOSE ANGLE LINTELS

NOTES:
1. LOOSE ANGLES LINTELS SHALL BE INSTALLED OVER OPENINGS IIN THE FOLLOWING LOCATIONS UNLESS NOTED OTHERWISE:
   - EXTERIOR WALLS
   - INTERIOR BEARING WALLS
2. LOOSE LINTELS FOR OPENINGS IN MASONRY BEARING WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:
   0'-0" TO 3'-0".....3 1/2 "x3 1/2"x5/16" ANGLE
   3'-1" TO 5'-0".....4"x3 1/2"x5/16" ANGLE
   5'-1" TO 6'-0".....5"x3 1/2"x3/8" ANGLE
   6'-1" TO 8'-0".....6"x3 1/2"x3/8" ANGLE
3. ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.

C S3.2 TYPICAL DETAIL
SCALE: 1 1/2" = 1'-0"



PRECAST LINTELS

NOTES:
1. PRECAST LINTELS SHALL BE INSTALLED OVER OPENINGS IN ALL INTERIOR NON-BEARING PARTITIONS UNLESS NOTED OTHERWISE.
2. PRECAST LINTELS SHALL NOT BE INSTALLED ABOVE OPENINGS WIDER THAN 10'-0" WITHOUT THE CONSENT OF THE ENGINEER OF RECORD.

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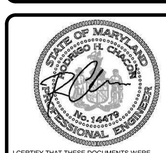

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TYPICAL DETAILS

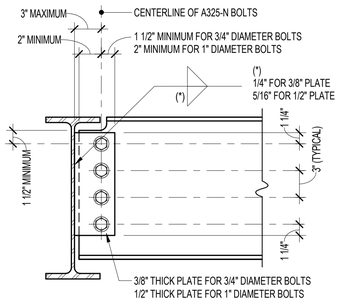
S3.2
SHEET 115 OF 179

22057

CEI #21-130

2/7/2025 7:58:06 AM

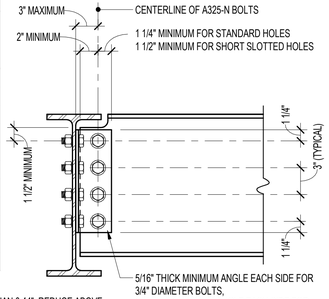
ALLOWABLE CONNECTION CAPACITY (KIPS)		
NUMBER OF BOLTS	3/4" DIAMETER A325-N	1" DIAMETER A325-N
2	9.7	11.0
3	19.3	21.9
4	30.9	35.1
5	42.9	48.8
6	54.8	62.3
7	66.7	75.8
8	78.4	89.0
9	90.0	102
10	101	115
11	112	128
12	124	141



NOTES:
1. FOR 3/4" DIAMETER A325-N BOLTS AND BEAM WEB LESS THAN 0.26", REDUCE ABOVE CAPACITY BY Tweb/0.26.
2. FOR 1" DIAMETER A325-N BOLTS AND BEAM WEB LESS THAN 0.34", REDUCE ABOVE CAPACITY BY Tweb/0.34.
3. SHORT SLOTTED HOLES SHALL BE USED.

SINGLE PLATE CONNECTION

ALLOWABLE CONNECTION CAPACITY (KIPS)				
NUMBER OF BOLTS	3/4" DIAMETER A325-N AT SUPPORTED MEMBER	3/4" DIAMETER A325-N AT SUPPORTING MEMBER	1" DIAMETER A325-N AT SUPPORTED MEMBER	1" DIAMETER A325-N AT SUPPORTING MEMBER
2	16.1	40.8	22.0	56.6
3	32.1	63.7	43.8	89.2
4	51.6	83.9	70.3	122
5	71.6	104	97.5	154
6	91.4	124	125	187
7	111	145	152	220
8	131	165	178	252
9	150	185	204	285
10	169	205	230	318
11	187	226	255	350
12	207	246	283	383



NOTES:
1. FOR 3/4" DIAMETER A325-N BOLTS AT SUPPORTED MEMBER WITH WEB LESS THAN 0.44", REDUCE ABOVE CAPACITY BY Tweb/0.44".
2. FOR 1" DIAMETER A325-N BOLTS AT SUPPORTED MEMBER WITH WEB LESS THAN 0.67", REDUCE ABOVE CAPACITY BY Tweb/0.67".
3. IF BEAMS FRAME TO SUPPORTING MEMBER FROM BOTH SIDES, REDUCE THE 3/4" DIAMETER SUPPORTING MEMBER BOLT CAPACITY BY Tweb/0.39 FOR SUPPORTING MEMBER WEBS LESS THAN 0.39" AND THE 1" DIAMETER SUPPORTING MEMBER BOLT CAPACITY BY Tweb/0.44" FOR SUPPORTING MEMBER WEBS LESS THAN 0.44".
4. STANDARD OR SHORT SLOTTED HOLES SHALL BE USED AT ANGLE LEG CONNECTED TO SUPPORTED MEMBER.
5. STANDARD HOLES SHALL BE USED AT ANGLE LEG CONNECTED TO SUPPORTING MEMBER. MAINTAIN 1 1/4" HORIZONTAL EDGE DISTANCE, Leh

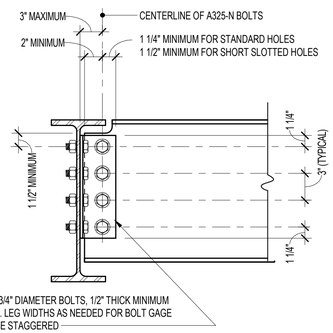
BOLTED / BOLTED DOUBLE ANGLE CONNECTION

ALLOWABLE CONNECTION CAPACITY (KIPS)						
NUMBER OF BOLTS	3/4" DIAMETER A325-N	1" DIAMETER A325-N	3/16" WELD	1/4" WELD	5/16" WELD
2	40.8	56.6	46.7	62.3	77.8
3	63.7	89.2	68.6	91.5	114
4	83.9	122	89.0	119	148
5	104	154	108	144	181
6	124	187	126	168	210
7	145	220	145	193	241
8	165	252	161	214	268
9	185	285	177	236	295
10	205	318	195	260	325
11	226	350	212	282	353
12	246	383	228	304	380

NOTES:
1. REDUCE 3/16" WELD CAPACITY BY Tweb/0.28 FOR BEAM WEB LESS THAN 0.28". REDUCE 1/4" WELD CAPACITY BY Tweb/0.37 FOR BEAM WEB LESS THAN 0.37". REDUCE 5/16" WELD CAPACITY BY Tweb/0.47 FOR BEAM WEB LESS THAN 0.47".
2. IF BEAMS FRAME TO SUPPORTING MEMBER FROM BOTH SIDES, REDUCE THE 3/4" DIAMETER BOLT CAPACITY BY Tweb/0.39 FOR SUPPORTING MEMBER WEB LESS THAN 0.39" AND THE 1" DIAMETER BOLT CAPACITY BY Tweb/0.44 FOR SUPPORTING MEMBER WEB LESS THAN 0.44".
3. STANDARD HOLES SHALL BE USED. MAINTAIN 1 1/4" MINIMUM HORIZONTAL EDGE DISTANCE, Leh.
4. IF LENGTH OF COPE EXTENDS BEYOND ANGLE LEG, BEAM SHEAR CAPACITY SHALL BE CHECKED.

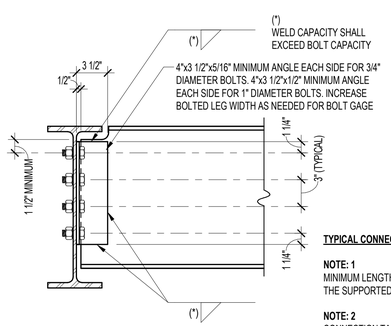
WELDED/BOLTED DOUBLE ANGLE CONNECTION

ALLOWABLE CONNECTION CAPACITY (KIPS)		
NUMBER OF BOLTS	3/4" DIAMETER A325-N	1" DIAMETER A325-N
2	9.7	11.0
3	19.3	21.9
4	30.9	35.1
5	42.9	48.8
6	54.8	62.3
7	66.7	75.8
8	78.4	89.0
9	90.0	102
10	101	115
11	112	128
12	124	141



NOTES:
1. FOR 3/4" DIAMETER A325-N BOLTS AND BEAM WEB LESS THAN 0.26", REDUCE ABOVE CAPACITY BY Tweb/0.26.
2. FOR 1" DIAMETER A325-N BOLTS AND BEAM WEB LESS THAN 0.34", REDUCE ABOVE CAPACITY BY Tweb/0.34.
3. IF BEAMS FRAME TO SUPPORTING MEMBER FROM BOTH SIDES AND THE CONNECTION ANGLES ARE LOCATED BACK TO BACK, REDUCE THE 3/4" DIAMETER BOLT CAPACITY BY Tweb/0.38 FOR SUPPORTING MEMBER WEBS LESS THAN 0.38" AND THE 1" DIAMETER BOLT CAPACITY BY Tweb/0.34 FOR SUPPORTING MEMBER WEBS LESS THAN 0.34".
4. STANDARD OR SHORT SLOTTED HOLES SHALL BE USED IN ANGLE LEG CONNECTED TO SUPPORTED MEMBER.
5. STANDARD HOLES SHALL BE USED IN ANGLE LEG CONNECTED TO SUPPORTING MEMBER. MAINTAIN 1 1/4" MINIMUM HORIZONTAL EDGE DISTANCE, Leh.
6. DISTANCE FROM HEEL OF ANGLE TO LINE OF BOLTS SHALL NOT EXCEED 3" FOR BOTH LEGS.

BOLTED / BOLTED SINGLE ANGLE CONNECTION



TYPICAL CONNECTION NOTES:

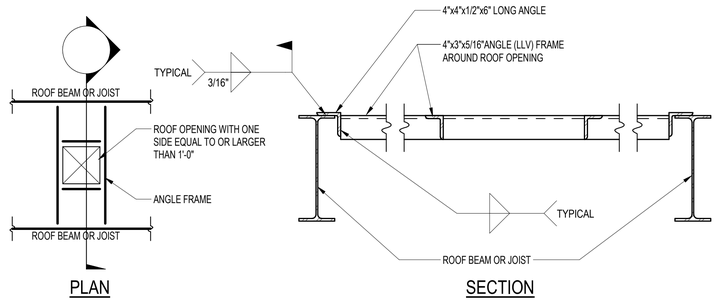
NOTE: 1
MINIMUM LENGTH OF CONNECTION SHALL BE ONE-HALF THE T-DIMENSION OF THE SUPPORTED MEMBER.

NOTE: 2
CONNECTION TABLES ALSO APPLY FOR BEAM TO COLUMN CONNECTIONS.

NOTE: 3
STEEL SHOP DRAWINGS THAT HAVE CONNECTIONS WHICH DO NOT CONFORM TO THE CONNECTIONS SHOWN IN THIS DETAIL WILL BE REJECTED.

CONNECTION DETAILS

A TYPICAL DETAIL
S3.3 — NOT TO SCALE

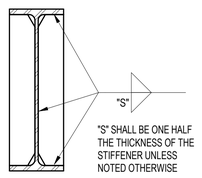


PLAN — SECTION

NOTES:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF OPENINGS.
2. PROVIDE ANGLE FRAME AT ALL ROOF DRAINS.

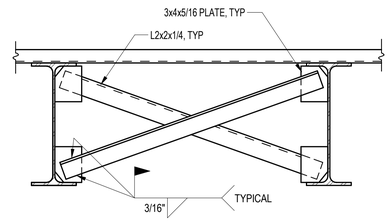
ROOF OPENING FRAME DETAIL

B TYPICAL DETAIL
S3.3 — NOT TO SCALE



BEAM STIFFENER

C TYPICAL DETAIL
S3.3 — NOT TO SCALE



D TYPICAL DETAIL
S3.3 — SCALE: 1 1/2" = 1'-0"

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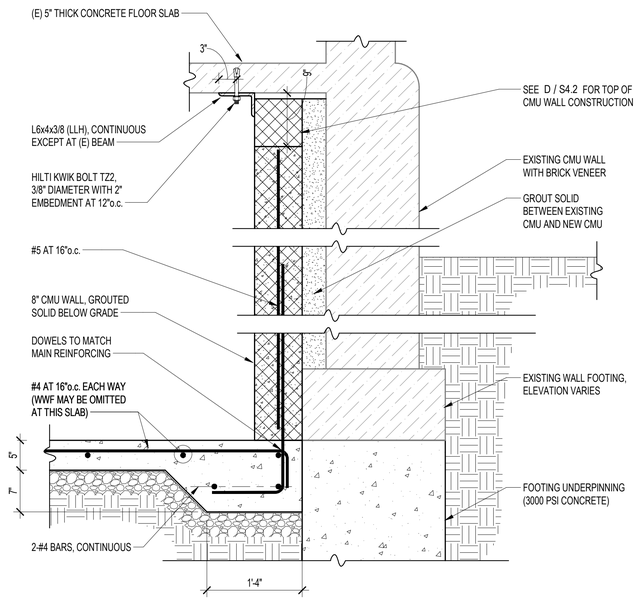

A S4.0 SECTION
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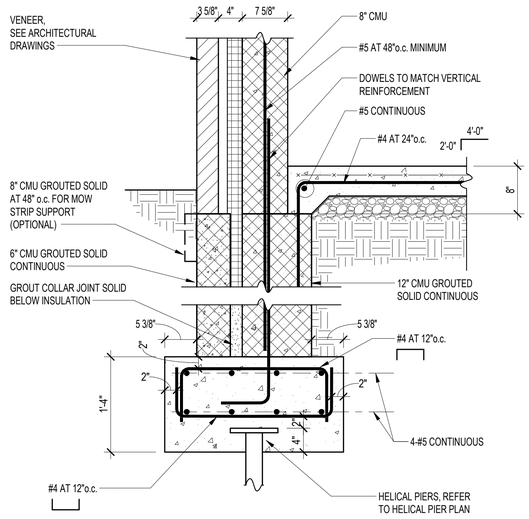

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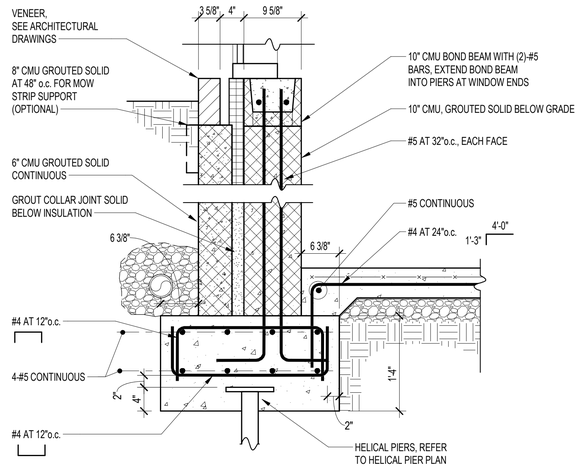
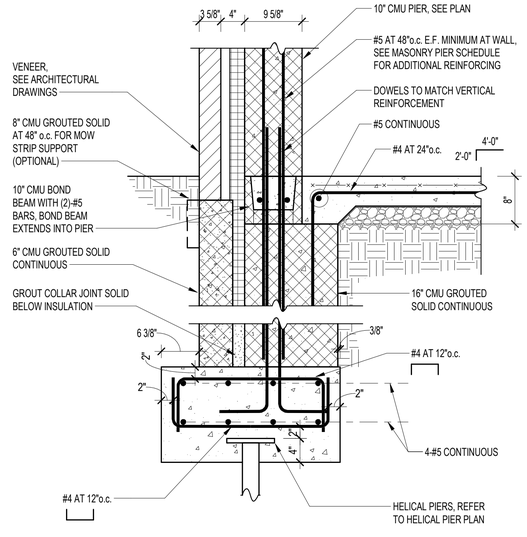


NOTE: DO NOT BACKFILL AGAINST WALL UNTIL SLABS AT (-12.5') AND (0.0') HAVE BEEN POURED AND HAVE REACHED DESIGN STRENGTH.

C S4.0 SECTION
SCALE: 1" = 1'-0"



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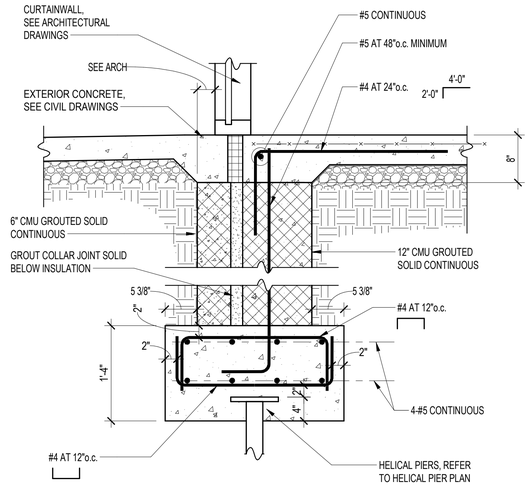

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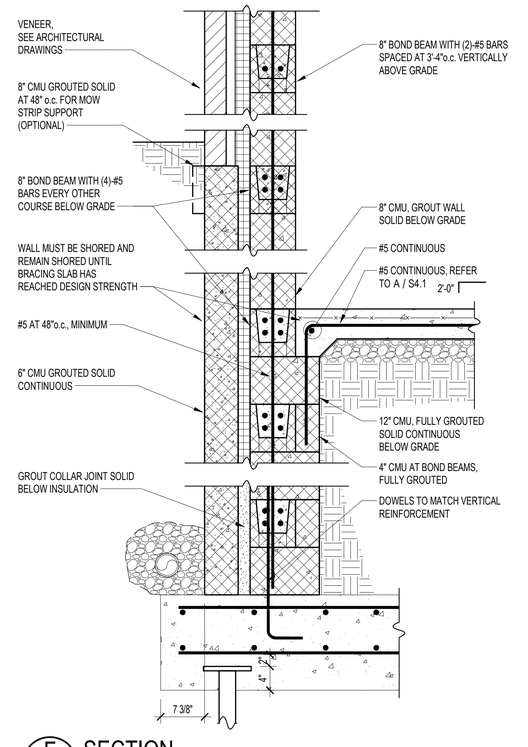

F S4.0 SECTION
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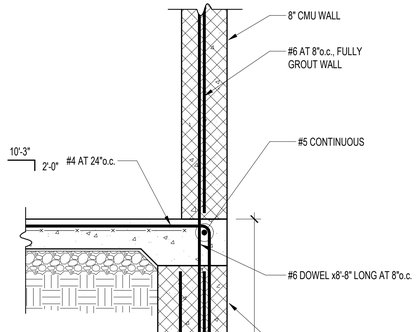

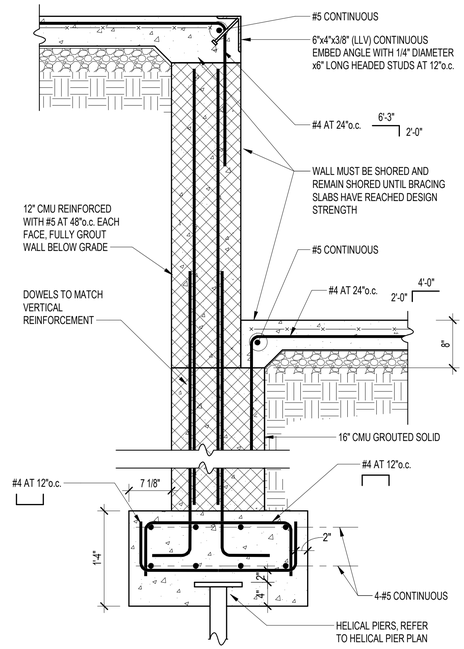

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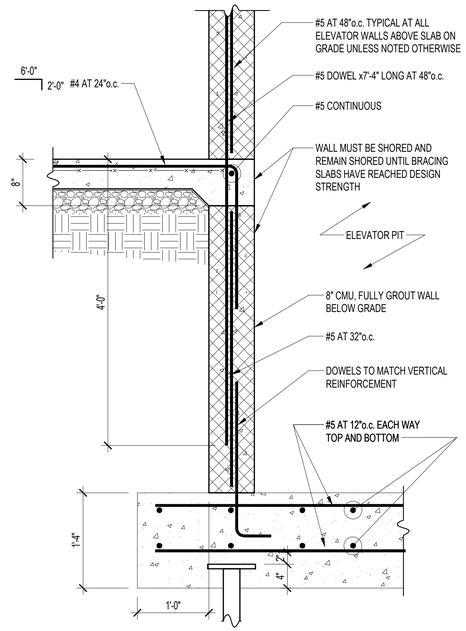

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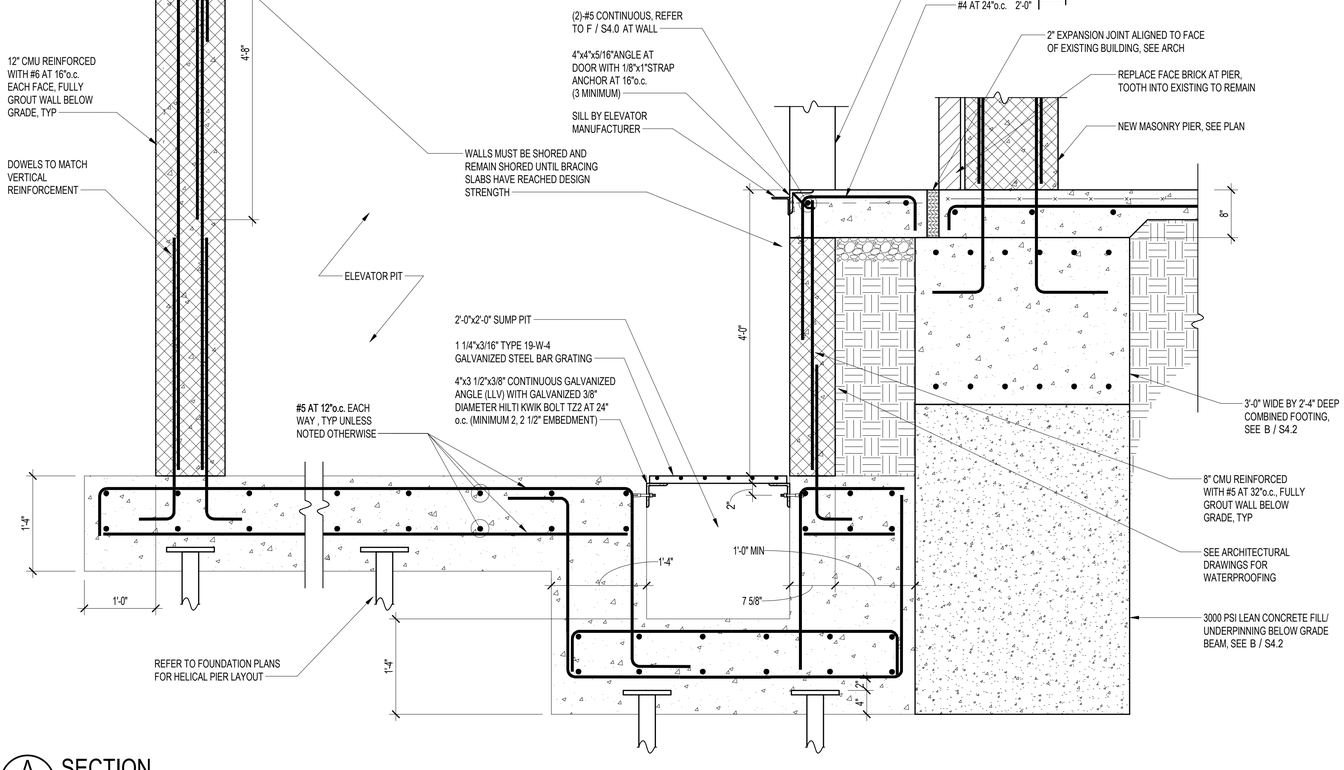

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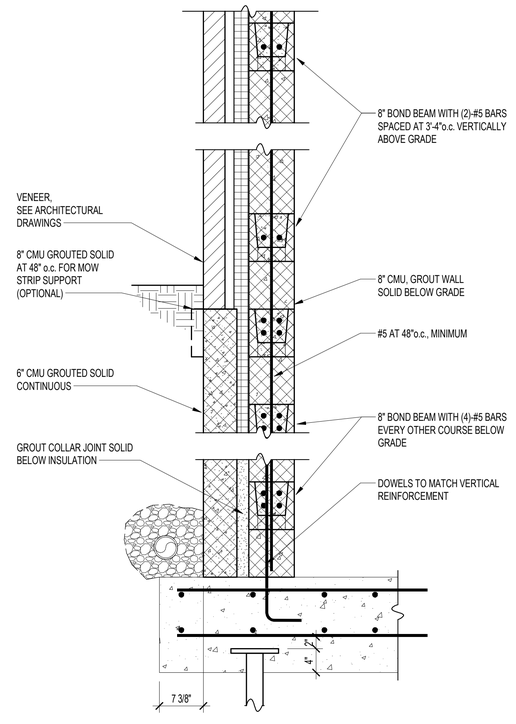

D S4.1 SECTION
SCALE: 1" = 1'-0"

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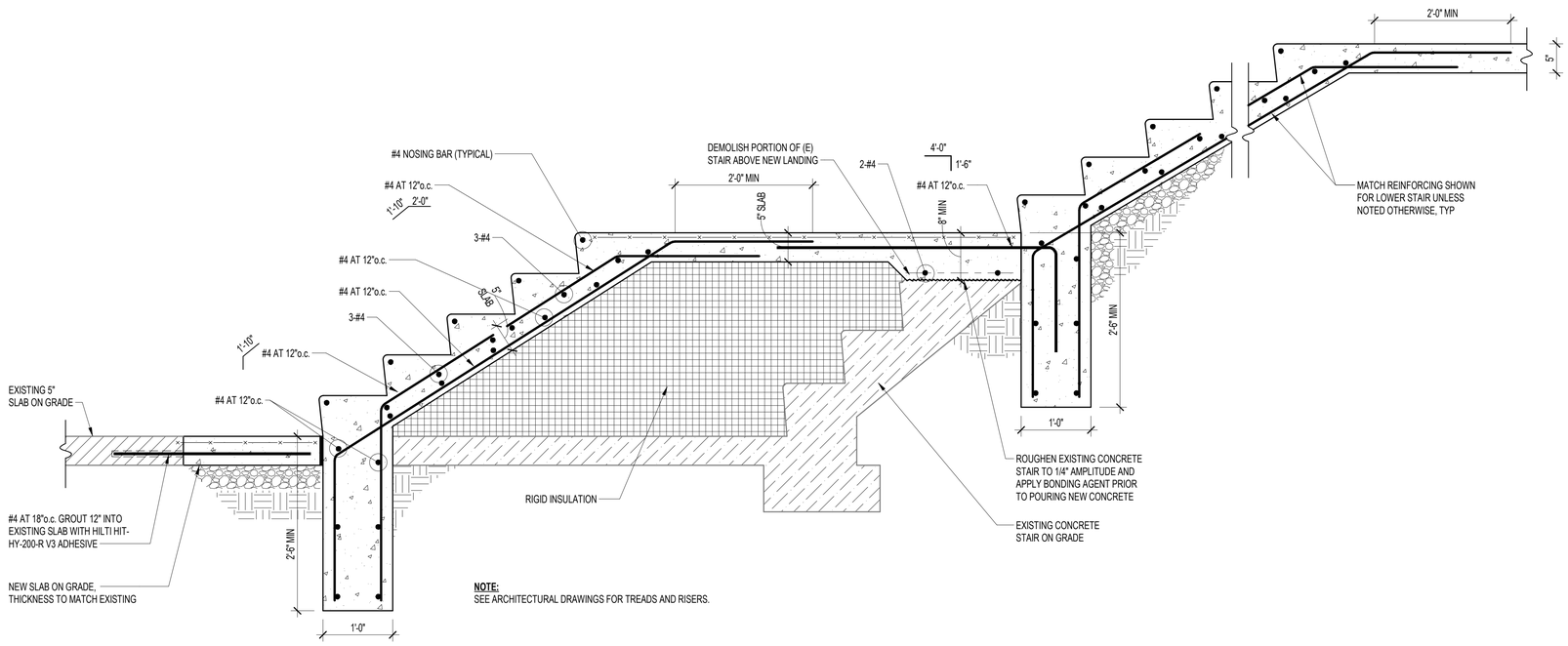
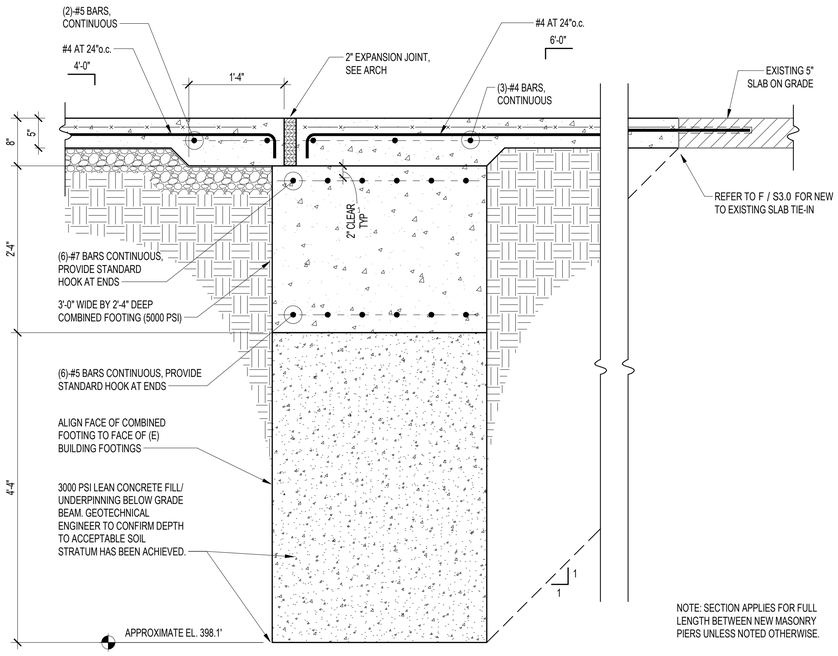


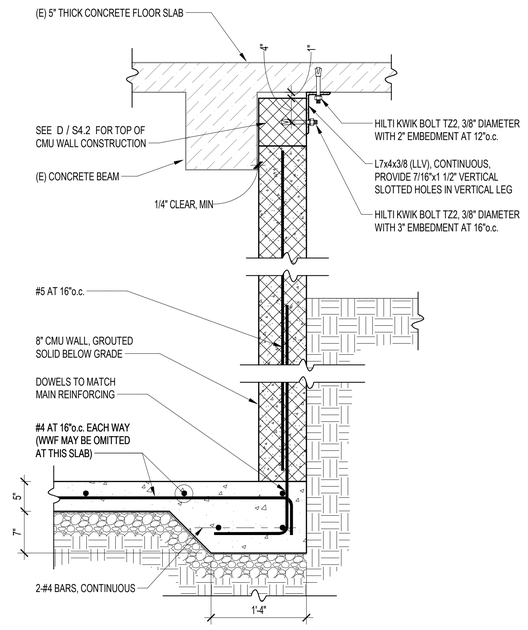
NOTE:
SEE ARCHITECTURAL DRAWINGS FOR TREADS AND RISERS.

A S4.2 SECTION
SCALE: 1" = 1'-0"



NOTE: SECTION APPLIES FOR FULL LENGTH BETWEEN NEW MASONRY PIERS UNLESS NOTED OTHERWISE.

B S4.2 SECTION
SCALE: 1" = 1'-0"



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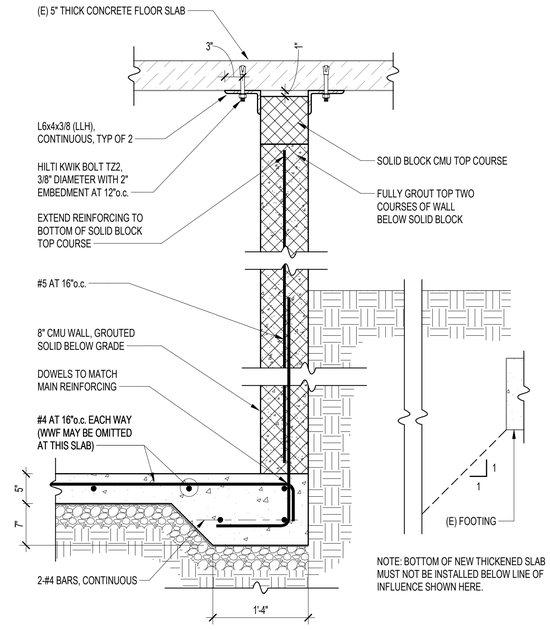

NOTE: BOTTOM OF NEW THICKENED SLAB MUST NOT BE INSTALLED BELOW LINE OF INFLUENCE SHOWN HERE.

D S4.2 SECTION
SCALE: 1" = 1'-0"

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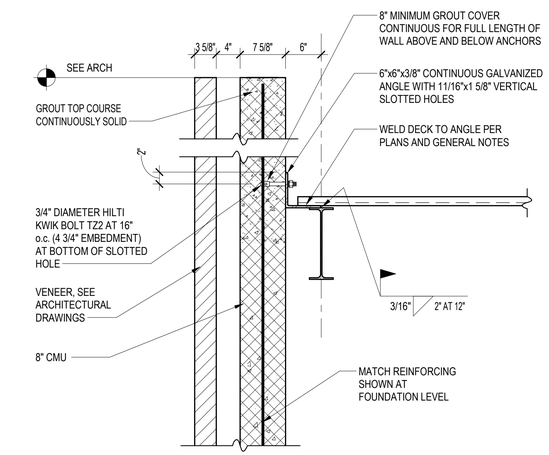

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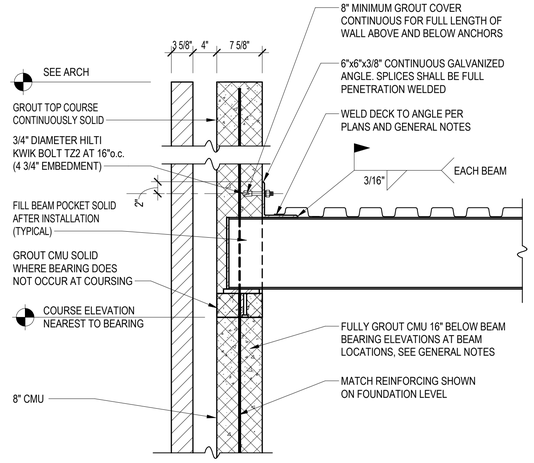

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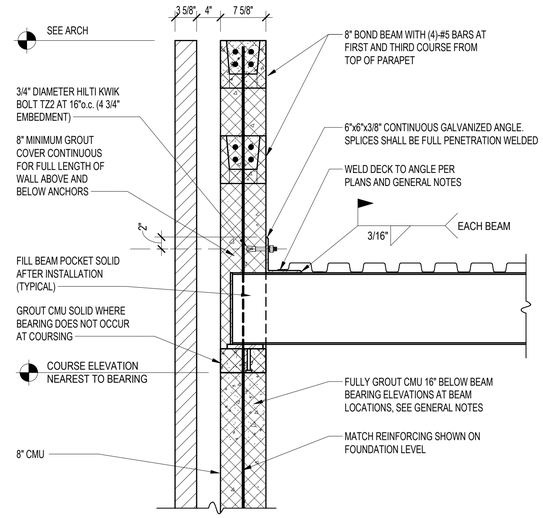

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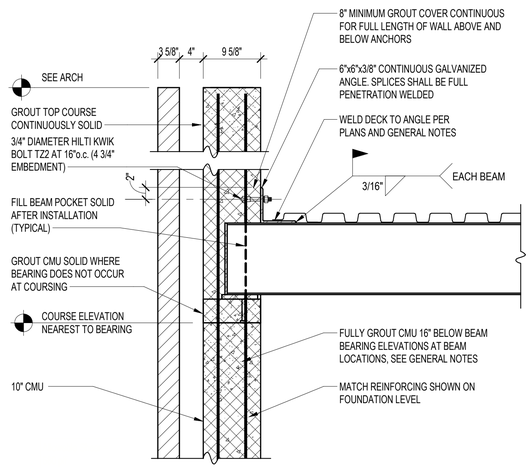

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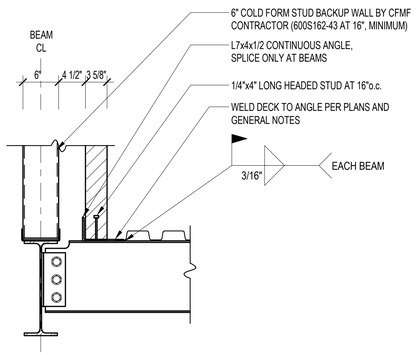

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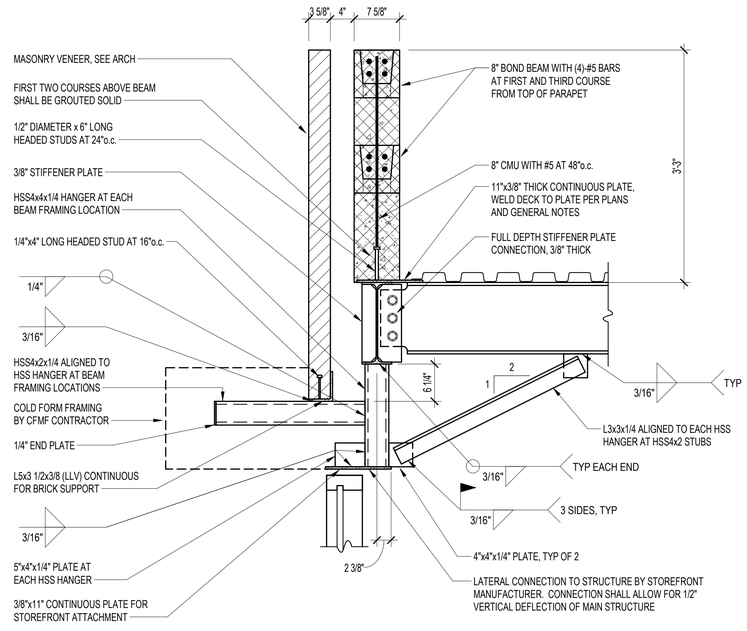

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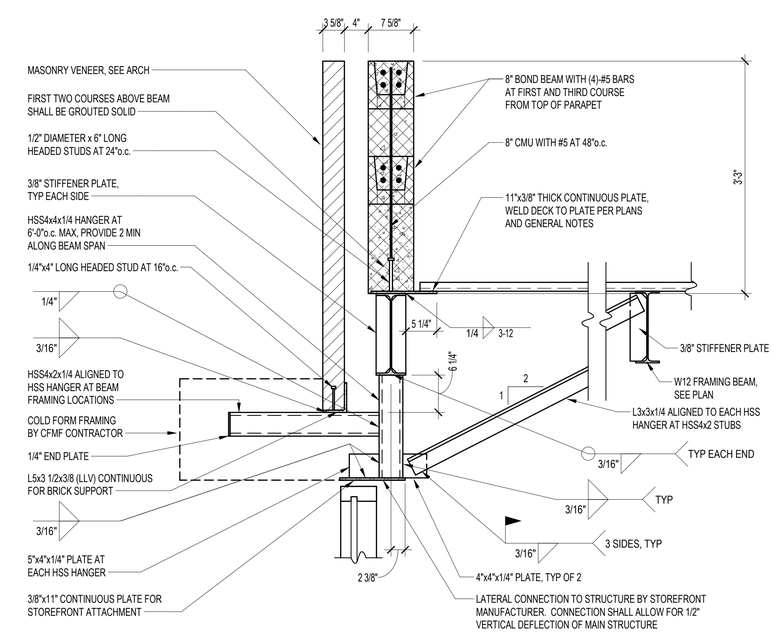

G S5.0 SECTION
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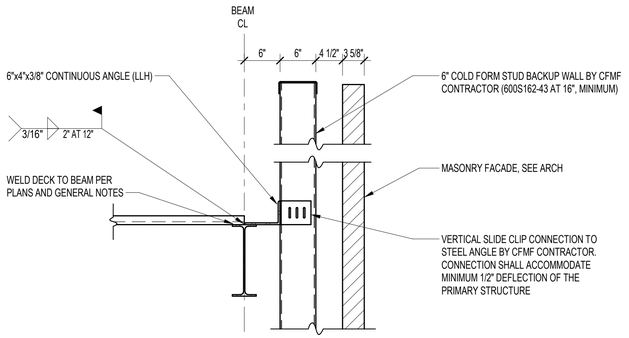

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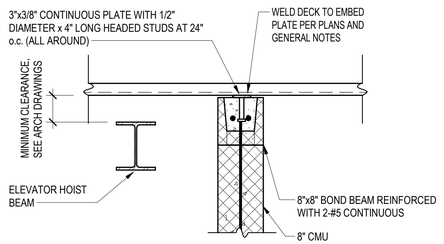

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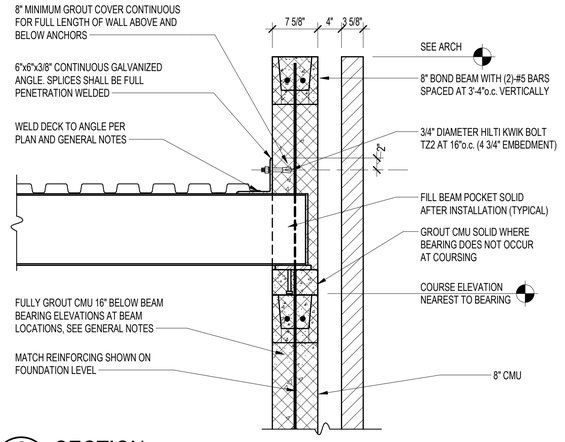

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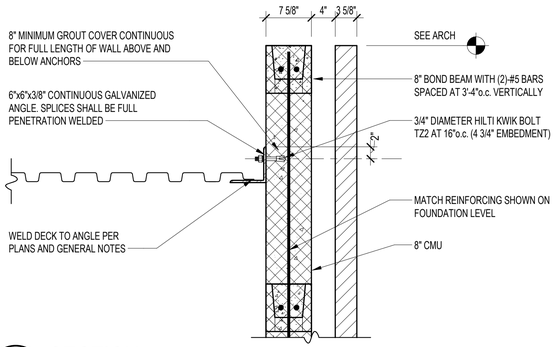

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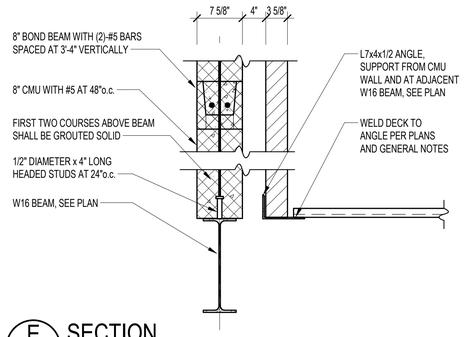

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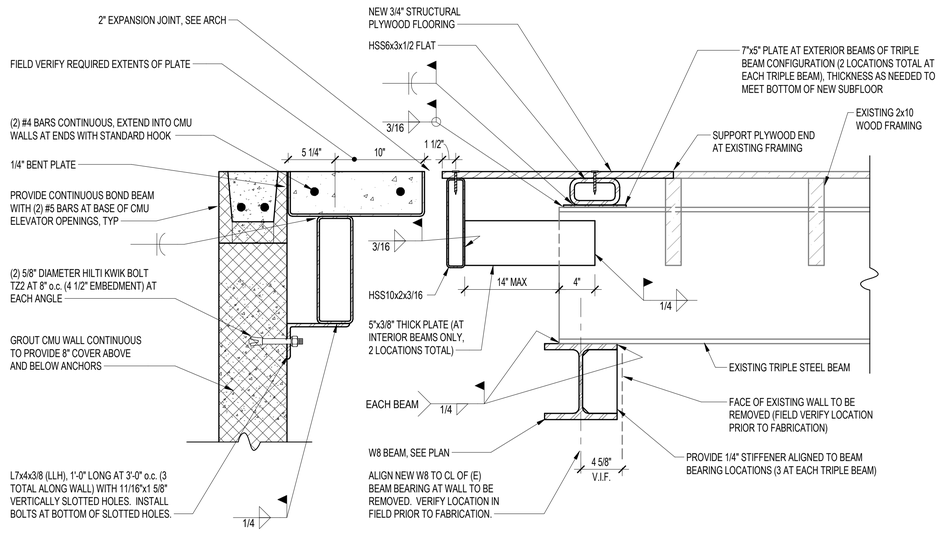

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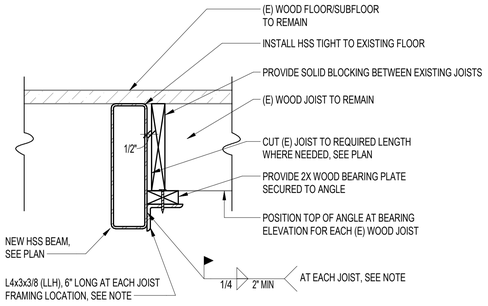
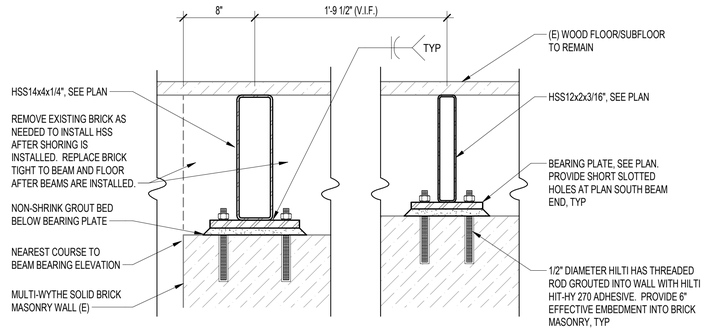


NOTE: AT CONTRACTOR'S OPTION, A CONTINUOUS ANGLE MAY BE PROVIDED FOR THE FULL LENGTH OF THE HSS IN LIEU OF DISCRETE ANGLES. FOR THIS OPTION, CONTRACTOR SHALL FIELD VERIFY BEARING ELEVATIONS FOR ALL JOISTS SUPPORTED BY THE HSS PRIOR TO FABRICATION. PROVIDE ANGLE AT ELEVATION REQUIRED FOR LOWEST JOIST SUPPORTED BY THE HSS BEAM. WELD CONTINUOUS ANGLE TO HSS WITH 3/16" FILLET WELDS, 3" LONG AT 12"o.c., TOP AND BOTTOM OF ANGLE. SUBSTITUTE FLARE BEVEL WELD AT BOTTOM OF HSS IF CONFIGURATION WARRANTS CHANGE IN WELD TYPE. MINIMUM VERTICAL WELD SPACING IS 2" FOR CONTINUOUS ANGLE OPTION.

F S5.1 SECTION
SCALE: 1 1/2" = 1'-0"



G S5.1 SECTION
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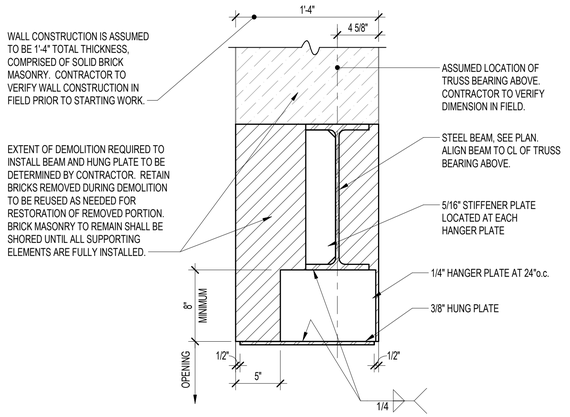

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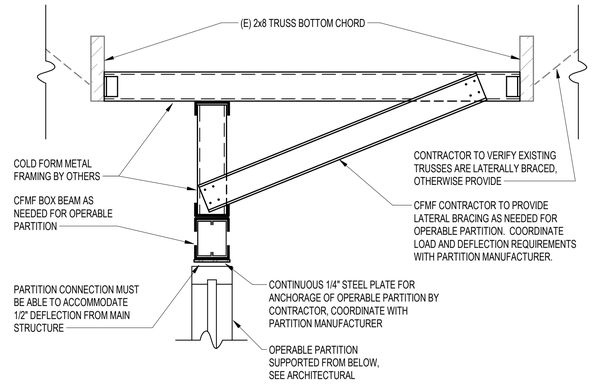

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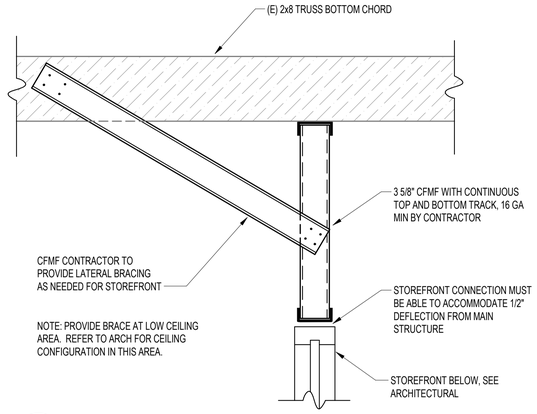

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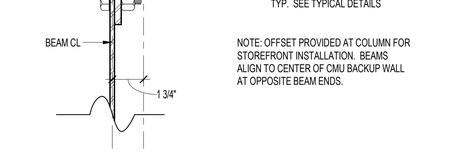

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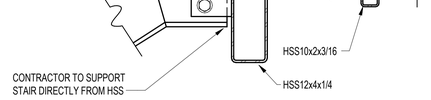

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PROFESSIONAL ENGINEER

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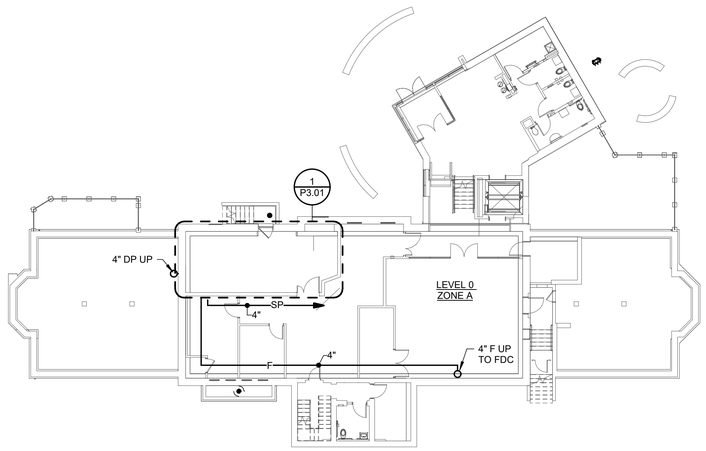
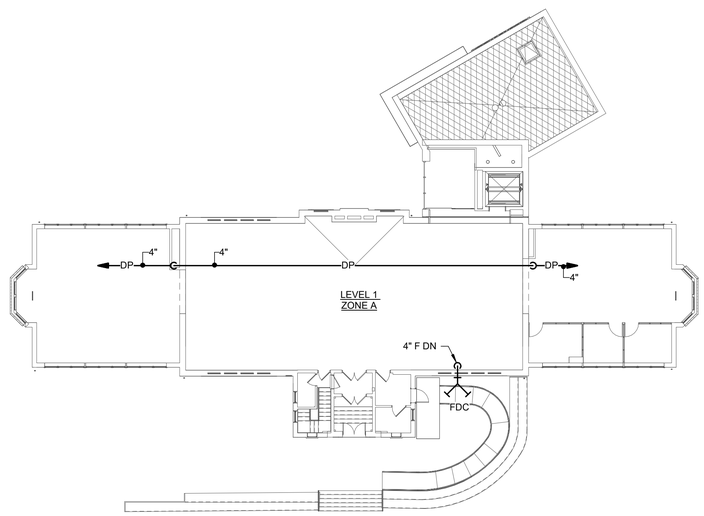
GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.
3. SPRINKLER PROTECTION SHALL BE PROVIDED IN THE COMBUSTIBLE CONCEALED ATTIC/ROOF SPACES (WOOD TRUSSES) AS SHOWN ON SHEET A3.05.



1 LOWER LEVEL PLAN - FIRE PROTECTION - NEW WORK

SCALE: 1/16" = 1'-0"



2 FIRST FLOOR PLAN - FIRE PROTECTION - NEW WORK

SCALE: 1/16" = 1'-0"

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STATE OF MARYLAND
MATTHEW CHARLES [illegible]
NO. 18528
PROFESSIONAL ENGINEER

Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Engineer under the laws of the State of Maryland. License number 18528 . Expiration Date: 7/27/2026.

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Mechanical / Electrical Engineers
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FLOOR PLANS FIRE PROTECTION

FP1.01

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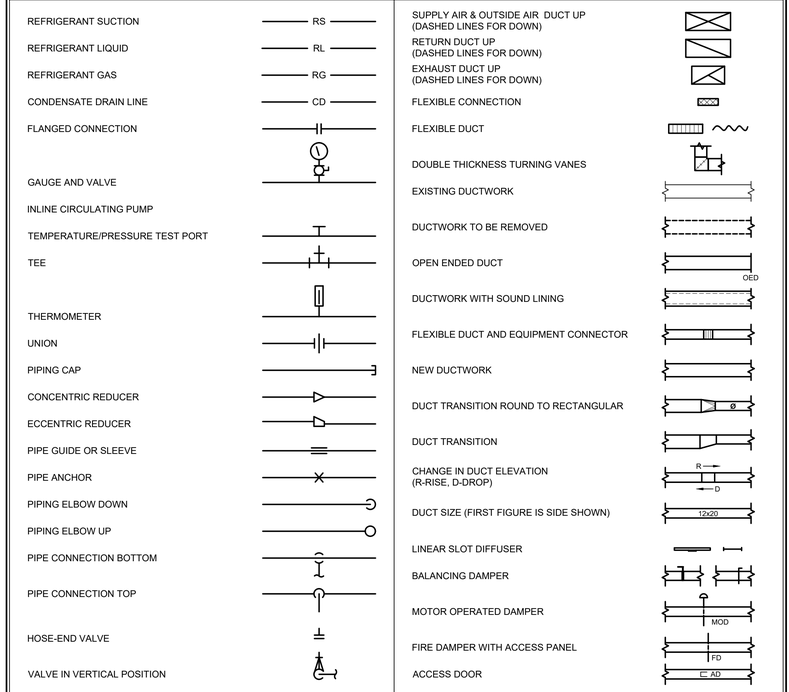
22057

BKM:22148.01

MECHANICAL ABBREVIATIONS

AIR CHANGES / HOUR	AC / HR	HORSEPOWER	HP
AIR COOLED CONDENSING UNIT	ACCU	HERTZ	HZ
AIR FOIL	AF	INCH(ES)	IN
ABOVE FINISHED FLOOR	AFF	KILOWATT	KW
AIR FLOW MONITOR	AFM	LENGTH	L
AIR HANDLING UNIT	AHU	LEAVING AIR TEMPERATURE	LAT
AIR PRESSURE DROP	APD	POUNDS	LBS
ARCHITECTURAL	ARCH	LOCKED ROTOR AMPS	LRA
AUTOMATIC TEMPERATURE CONTROLS	ATC	LOW PRESSURE STEAM	LPS
AIR TERMINAL UNIT	ATU	MAXIMUM	MAX
BUILDING AUTOMATION SYSTEM	BAS	THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH
BRAKE HORSEPOWER	BHP	MINIMUM CIRCUIT AMPACITY	MCA
BACKWARD INCLINED	BI	MECHANICAL EQUIPMENT ROOM	MER
BRITISH THERMAL UNIT	BTU	MAXIMUM FUSE SIZE	MFS
BRITISH THERMAL UNITS PER HOUR	BTUH	MINIMUM	MIN
CAPACITY	CAP	MAXIMUM OVERCURRENT PROTECTION	MOP
CUBIC FEET PER HOUR	CFH	NORMALLY CLOSED	NC
CUBIC FEET PER MINUTE	CFM	NOT IN CONTRACT	NIC
CONDITIONED OUTSIDE AIR	COA	NORMALLY OPEN / NUMBER	NO
CONNECT TO EXISTING	CX	OUTSIDE AIR	OA
DRY BULB	DB	POUNDS PER SQUARE INCH	PSI
DESIGNATION	DESIG	PRESSURE	PRESS
DIAMETER	DIA	QUANTITY	QTY
DOWN	DN	RETURN AIR	RA
DIFFERENTIAL PRESSURE SENSOR	DPS	RELATIVE HUMIDITY	RH
DRAWING(S)	DWG	REVOLUTIONS PER MINUTE	RPM
EXHAUST AIR	EA	REMOVE EXISTING	RX
ENTERING AIR TEMPERATURE	EAT	SUPPLY AIR	SA
ENERGY EFFICIENCY RATIO	EER	STATIC PRESSURE	SP
EXHAUST FAN	EF	TESTING AND BALANCING	TAB
ENERGY MANAGEMENT CONTROL SYSTEM	EMCS	TOTAL STATIC PRESSURE	TSP
EXTERNAL STATIC PRESSURE	ESP	TYPICAL	TYP
EXISTING TO REMAIN	ETR	UNLESS OTHERWISE NOTED	UON
FLEXIBLE CONNECTION / FORWARD CURVED	FC	VOLTS	V
FULL LOAD AMPS	FLA	VARIABLE AIR VOLUME	VAV
FINS PER INCH	FPI	VARIABLE FREQUENCY DRIVE	VFD
FEET PER MINUTE	FPM	WIDTH	W
FEET	FT	WET BULB	WB
FACE VELOCITY	FV	WATER COLUMN	WC
HEIGHT	H	WATER GAUGE	WG

MECHANICAL LEGEND



MECHANICAL GENERAL NOTES

1. THE MECHANICAL AND PLUMBING CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE SCOPE AND THE GENERAL ARRANGEMENT OF THE SYSTEMS. WHERE APPLICABLE THE FOLLOWING NOTES SHALL APPLY TO ALL MECHANICAL (HVAC, PLUMBING, PIPING AND FIRE PROTECTION) SYSTEMS.
2. THOUGH SOME DUCTWORK AND PIPING OFFSETS AND TRANSITIONS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS AND TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
3. DEMOLISH ALL SYSTEMS AND EQUIPMENT INDICATED TO BE REMOVED BY DRAWINGS OR NOTES. WHERE EXISTING SYSTEMS ARE TO REMAIN IN USE, REMOVE ALL UNUSED PORTIONS OF THE SYSTEMS TO A POINT AS CLOSE TO THE REMAINING SYSTEMS AS POSSIBLE AND CAP WITH MATERIALS AND CONSTRUCTION MATCHING THE REMAINING SYSTEMS' CUT END.
4. PROVIDE APPROVED FIRE STOPPING MATERIAL AROUND ALL DUCTWORK AND PIPING PENETRATIONS (NEW AND EXISTING) THROUGH FIRE RATED FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FLOORS AND FIRE RATED WALLS AND FIRE/SMOKE DAMPERS AT ALL PENETRATIONS THROUGH SHAFT ENCLOSURES.
5. SUPPORT ALL EQUIPMENT (I.E. AHU'S, VRF UNITS, ETC.) FROM STRUCTURE WITH SPECIFIED VIBRATION ISOLATION.
6. PROVIDE ACCESS PANELS WHERE REQUIRED FOR ADEQUATE ACCESS TO ALL CONCEALED EQUIPMENT, VALVES, DAMPERS AND CONTROLS.
7. ALL DUCT SIZES REFER TO INTERNAL FREE AREA. REFER TO DRAWINGS AND SPECIFICATIONS FOR INTERNAL INSULATION AND SOUND LINING PRIOR TO FABRICATION.
8. ALL DUCTWORK SHALL BE CONSTRUCTED OF RIGID SHEET METAL UNLESS OTHERWISE NOTED.
9. REFER TO DOOR SCHEDULE ON ARCHITECTURAL DRAWINGS FOR UNDER CUT DIMENSIONS AND DOOR LOUVER SIZES.
10. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS AND BORDER TYPES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
11. INSTALL DUCTWORK AND PIPING MAINS TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
12. REFER TO MECHANICAL DETAILS FOR TYPICAL EQUIPMENT CONNECTIONS.
13. PROVIDE CONDENSATE DRAIN PIPING FROM EACH AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE CLEAN OUT AT EACH ELBOW. SIZE PER MANUFACTURER.
14. AIR CONDITIONING (A/C) CONDENSATE PIPING SHALL BE EXTENDED FROM ALL A/C CONDENSATE SOURCE EQUIPMENT (DOAS UNITS, SPLIT SYSTEM A/C UNITS, ETC.) AND CONNECTED TO THE NEAREST STORM WATER PIPE/DRAIN LOCATION. SIZE PER MANUFACTURER.
15. PATCH AND SEAL ALL REMAINING OPENINGS (NEW AND EXISTING) THROUGH FLOORS, CEILINGS, WALLS, AND ROOF RESULTING FROM DEMOLITION OR NEW WORK WITH MATERIALS AND FINISHES TO MATCH EXISTING CONSTRUCTION AND FIRE RATING.
16. AS AN INTEGRAL PART OF THESE DOCUMENTS, THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. PRIOR TO THE BALANCING OF SYSTEMS BY THE AABC CERTIFIED BALANCING CONTRACTOR, ALL DUCTWORK SHALL BE TESTED BY THE MECHANICAL CONTRACTOR FOR DUCT LEAKAGE. DUCT LEAKAGE SHALL NOT EXCEED 1% FOR A DURATION OF TEN (10) MINUTES. SEE SPECIFICATIONS FOR ADDITIONAL TESTING CRITERIA. INSULATION MATERIALS SHALL NOT BE APPLIED UNTIL SYSTEMS HAVE BEEN WITNESSED, DOCUMENTED AND SUBMITTED TO MEET THE ABOVE TESTING REQUIREMENTS. THE BALANCE CONTRACTOR SHALL WITNESS AND CERTIFY ALL DUCT PRESSURE TESTS.
18. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING AGENCY TO PLAN AND IMPLEMENT AN INDOOR AIR QUALITY CONSTRUCTION MANAGEMENT PLAN PER THE REQUIREMENTS OF THE INTERNATIONAL GREEN CONSTRUCTION CODE.
19. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO THE BEGINNING OF ANY WORK. FAILURE TO VISIT THE SITE SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY.
20. CONTRACTOR SHALL USE CARE WHEN PERFORMING SELECTIVE DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO BUILDING FINISHES, EQUIPMENT, FURNITURE, STRUCTURE, AND MECHANICAL/ELECTRICAL SYSTEMS AND EQUIPMENT. SHOULD ANY DAMAGE OCCUR THE CONTRACTOR SHALL RESTORE DAMAGED AREA/ITEMS TO ORIGINAL CONDITION TO MEET THE OWNER'S SATISFACTION.
21. CONTRACTOR SHALL TEST/BALANCE ALL AIR EQUIPMENT AND DEVICES INDICATED ON THE DOCUMENTS. AIR SYSTEM EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: AIR HANDLING EQUIPMENT (DOAS UNITS, ETC.), FANS, AIR DEVICES, DUCT MOUNTED VOLUME DAMPERS, ETC. BALANCE ALL EQUIPMENT AND DEVICES TO THE AIR FLOWS (CFM) INDICATED ON THE DOCUMENTS (WHERE FLOWS ARE NOT CLEARLY INDICATED, CONTACT THE A/E FOR CLARIFICATION).
22. WHERE PIPING PENETRATES CONCRETE WALL AND SLABS, PROVIDE GROUND PENETRATING RADAR (GPR) SCAN TO IDENTIFY THE LOCATION OF REBAR. SUBMIT RESULTS TO OWNER AND ENGINEER FOR REVIEW.
23. SEE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL ROOFING REQUIREMENTS.
24. PROVIDE SURFACE PREPARATION, PRIMING AND PAINTING OF ALL MECHANICAL AND BOILER ROOM FLOORS TO PROVIDE A SMOOTH, CLEANABLE SURFACE. PRIMER AND PAINT SHALL BE APPROPRIATE FOR CONCRETE SLAB SURFACES. WHERE PAINTING OVER EXISTING SURFACES, COATINGS OR WHERE THE FLOOR IS SOILED, DEGREASE AND FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION, PRIMING AND PAINTING. SEE SPECIFICATION SECTIONS "PAINTING" AND "HVAC RELATED WORK", WHERE APPLICABLE, FOR ADDITIONAL PAINTING REQUIREMENTS. COLOR SHALL BE SELECTED BY THE A/E.
25. WHERE PENETRATIONS OF STRUCTURAL SLAB, WALLS, ETC. ARE ANTICIPATED, PROVIDE GROUND PENETRATING RADAR (GPR), OR OTHER APPROVED METHODS, TO DETERMINE THE LOCATION OF STRUCTURAL REINFORCEMENT. COORDINATE ALL PENETRATIONS WITH STRUCTURAL REINFORCEMENT AS REQUIRED TO AVOID DAMAGE TO THE REINFORCEMENT AS WELL AS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL SLABS, WALLS, ETC. SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW.
26. WHERE MOTOR STARTERS AND/OR VARIABLE FREQUENCY DRIVES (VFD'S) ARE INDICATED FOR MECHANICAL EQUIPMENT, THEY SHALL COMPLY WITH ALL REQUIREMENTS OUTLINED WITH THE ELECTRICAL SPECIFICATIONS FOR MOTOR STARTERS AND VFD'S. WHERE MOTOR STARTERS AND/OR VFD'S ARE PROVIDED BY THE MECHANICAL CONTRACTOR, OR AS A PORTION OF A PACKAGED MECHANICAL UNIT, THE ELECTRICAL SPECIFICATIONS SHALL ALSO APPLY. ALL VFD'S FOR THE PROJECT, WHETHER PROVIDED BY THE MECHANICAL OR ELECTRICAL CONTRACTOR, SHALL BE PROVIDED BY A SINGLE MANUFACTURER, AND SHALL INCLUDE THE SAME FEATURES AND OPTIONS.
27. UNLESS INDICATED OTHERWISE, ALL EXPOSED PIPING IN ALL FINISHED AREAS SHALL BE COVERED WITH A 16-GAUGE STEEL PRIMED AND PAINTED METAL COVER. THE COVER SHALL BE SECURED TO AN ADJACENT STRUCTURE AND PAINTED TO MATCH ADJACENT SURFACES.
28. EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED ON ALL PIPING SYSTEMS WHICH CROSS BUILDING EXPANSION JOINTS AND ALL HORIZONTAL AND VERTICAL PIPE LENGTHS EXCEEDING 100 FEET.
29. CONTRACTOR SHALL REMOVE, REINSTALL AND/OR RELOCATE ANY EXISTING CONDUIT, PIPING SYSTEMS, DUCTWORK, TELECOMMUNICATIONS WIRING, HANGERS/SUPPORTS, ETC. AS REQUIRED TO ACCOMPLISH THE MECHANICAL WORK INDICATED.
30. ALL ADHESIVES AND SEALANTS SHALL BE COMPLIANT WITH 2018 IGCC.

DUCT CONSTRUCTION SCHEDULE

SYSTEM	DUCT PRESSURE CLASS (IN WC)	DUCT SEAL CLASS	MIN TEST PRESSURE	MAX ALLOWABLE LEAKAGE	NOTES
LOW PRESSURE SUPPLY	2	A	2"	1%	1, 2 & 3
LOW PRESSURE RETURN	2	A	2"	1%	1, 2 & 3
LOW PRESSURE OUTSIDE AIR	2	A	2"	1%	1, 2 & 3
LOW PRESSURE EXHAUST	2	A	2"	1%	1, 2 & 3
AIR TRANSFER	2	A	N/A	N/A	1 & 2

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL DUCTWORK REQUIREMENTS AS WELL AS DETAILED PRODUCT AND INSTALLATION REQUIREMENTS. WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. SUCCESSFUL COMPLETION OF DUCT PRESSURE TESTING SHALL OCCUR PRIOR TO THE INSTALLATION OF INSULATION. VERIFICATION OF SUCCESSFUL PRESSURE TEST RESULTS SHALL BE SUBMITTED TO THE A/E AND INCLUDED IN THE PROJECT O & M MANUALS.
3. TEST PRESSURE SHALL BE 125% OF SYSTEM OPERATING PRESSURE, BUT NOT LESS THAN THE TEST PRESSURE INDICATED.

DUCT INSULATION SCHEDULE

SYSTEM	TYPE	MIN THICKNESS	MIN R-VALUE @ 75°F	JACKET	NOTES
SUPPLY AIR - CONCEALED (50°F - 60°F)	FIBERGLASS - DUCT WRAP	2"	6.7	REINFORCED ALUMINUM FACING WITH VAPOR RETARDED	1, 2, 3, 4 & 6
SUPPLY AIR - EXPOSED (50°F - 60°F)	FIBERGLASS - RIGID BOARD	2"	6.7	REINFORCED ALUMINUM FACING WITH VAPOR RETARDED	1, 2, 3, 4 & 6
SUPPLY AIR IN CEILING SPACE BELOW ROOF OR PENTHOUSE (50°F - 60°F)	FIBERGLASS - DUCT WRAP	2"	8.0	REINFORCED ALUMINUM FACING WITH VAPOR RETARDED	1, 2, 3, 4 & 6
RETURN AIR IN CEILING SPACE BELOW ROOF OR PENTHOUSE (ABOVE 70°F)	FIBERGLASS - DUCT WRAP	2"	6.7	REINFORCED ALUMINUM FACING WITH VAPOR RETARDED	1, 2, 3 & 4
OUTDOOR AIR - CONCEALED	FIBERGLASS - DUCT WRAP	2"	6.7	REINFORCED ALUMINUM FACING WITH VAPOR RETARDED	1, 2, 3 & 4

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS AS WELL AS DETAILED PRODUCT AND INSTALLATION REQUIREMENTS. WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. CONCEALED DUCTWORK SHALL BE CONSIDERED DUCTWORK ABOVE CEILINGS OR IN MECHANICAL SHAFTS.
3. WHERE DUCTWORK IS SPECIFIED TO BE LINED OR DOUBLE WALL, DO NOT PROVIDE EXTERNAL INSULATION. TYPICALLY, DOUBLE WALL OR LINED DUCTWORK SHALL BE PROVIDED FOR THE FOLLOWING APPLICATIONS, UNLESS OTHERWISE NOTED: DUCTWORK WITHIN MECHANICAL ROOMS, SUPPLY DUCTWORK DOWNSTREAM OF AIR TERMINALS (VAV'S, TRU'S), EXPOSED DUCTWORK IN OCCUPIED AREAS.
4. PROVIDE INSULATION THICKNESS AS REQUIRED TO ACHIEVE R-VALUE SPECIFIED IN SCHEDULE.
5. PROVIDE INSULATION THICKNESS AS REQUIRED TO ACHIEVE TWO HOUR RATING (CONFIRM RATING REQUIREMENTS).
6. FOR LOW TEMPERATURE APPLICATIONS, REVISE INSULATION REQUIREMENTS ABOVE TO MEET APPLICATION REQUIREMENTS.

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MECHANICAL LEGEND, SYMBOLS & NOTES

M0.01
SHEET 124 OF 179

22057

BKM:22148.01

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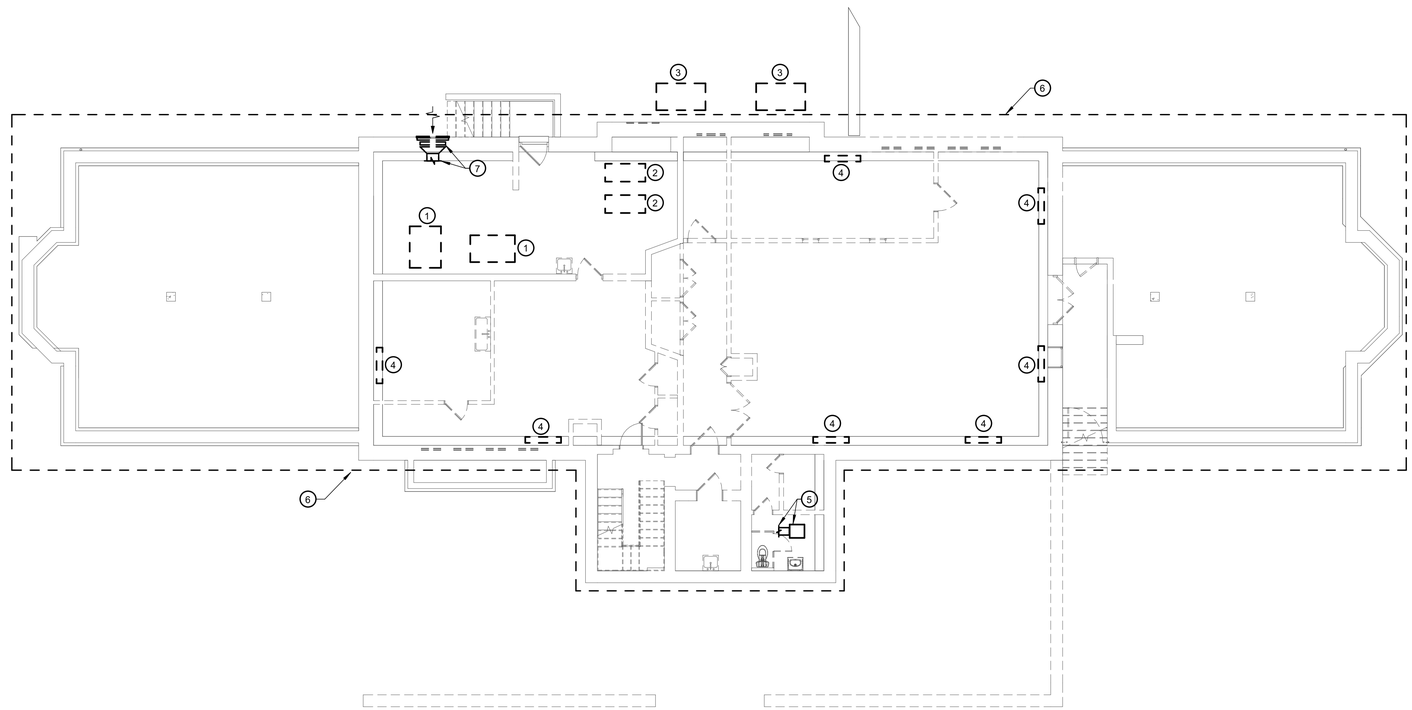

1 LOWER LEVEL PLAN - HVAC - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M001 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL MECHANICAL SYSTEMS AND DISTRIBUTION SERVING THE BUILDING SHALL BE REMOVED IN THEIR ENTIRETY.

○ DRAWING NOTES:

1. REMOVE FLOOR MOUNTED AIR HANDLING UNIT AND ASSOCIATED DUCTWORK AND ALL APPURTENANCES.
2. REMOVE EXISTING BOILER, PUMPS, AND ALL ASSOCIATED PIPING AND ALL APPURTENANCES.
3. REMOVE EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND ALL APPURTENANCES.
4. REMOVE EXISTING WALL MOUNTED RADIATOR AND ALL ASSOCIATED PIPING AND ALL APPURTENANCES.
5. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND ALL APPURTENANCES.
6. REMOVE ALL EXISTING AIR DEVICES AND DUCTWORK LOCATED IN CEILING BACK TO AIR HANDLING UNIT IN MECHANICAL ROOM.
7. REMOVE EXISTING OUTSIDE AIR DUCTWORK, DAMPER, AND LOUVER.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN DUCTWORK DEMOLITION

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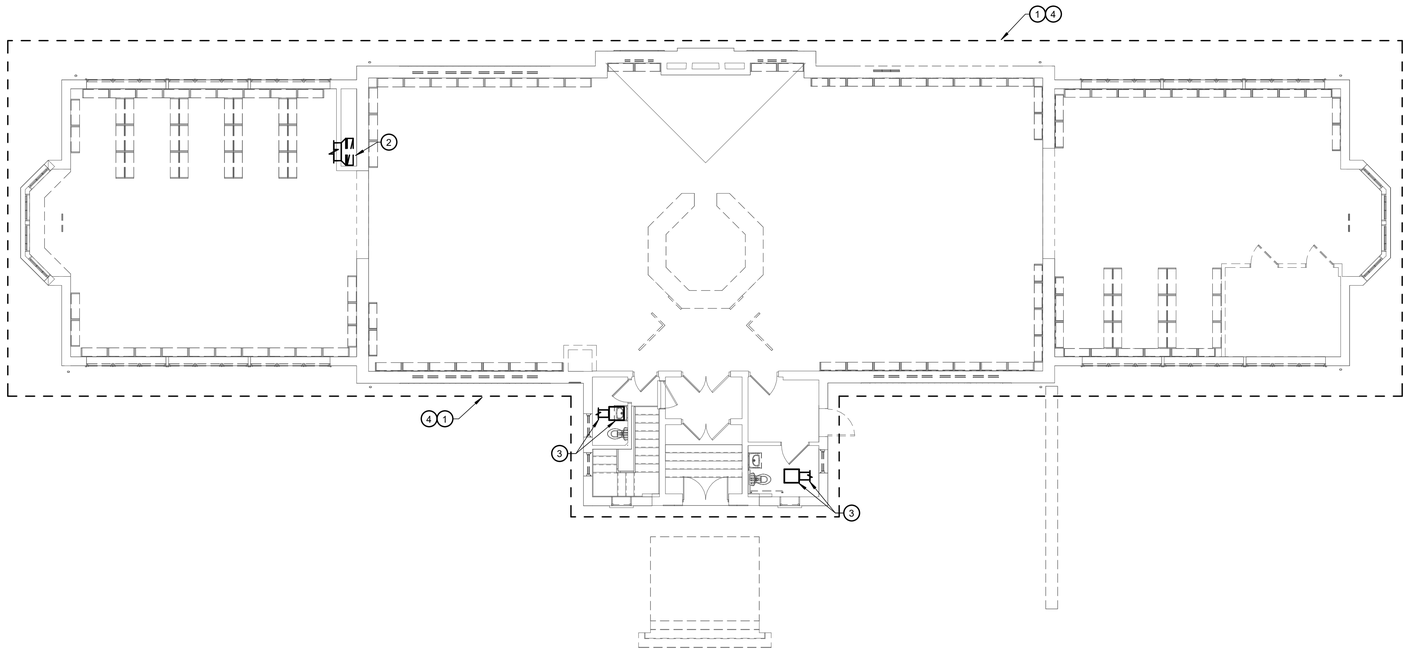

1 FIRST FLOOR PLAN - HVAC - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M001 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL MECHANICAL SYSTEMS AND DISTRIBUTION SERVING THE BUILDING SHALL BE REMOVED IN THEIR ENTIRETY.

○ DRAWING NOTES:

1. REMOVE ALL EXISTING RADIATORS AND CONVECTOR AND ASSOCIATED PIPING THROUGHOUT THIS LEVEL. REMOVE ALL PIPING BACK TO BOILER ROOM.
2. REMOVE RETURN AIR DUCTWORK DOWN TO AIR HANDLING UNIT LOCATED ON LEVEL BELOW.
3. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
4. REMOVE SUPPLY AIR DUCTWORK AND AIR DEVICES THROUGHOUT CEILING AND ATTIC SPACE. REMOVE ASSOCIATED DUCT RISERS.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN DUCTWORK DEMOLITION

M1.02

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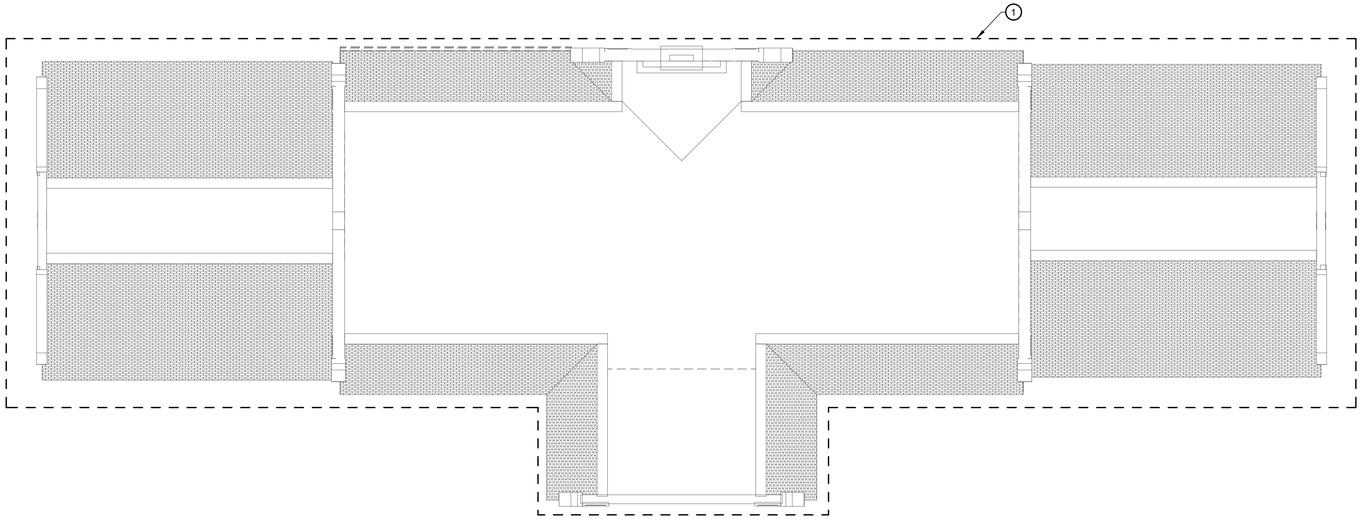

1 ROOF PLAN - HVAC - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M001 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL MECHANICAL SYSTEMS AND DISTRIBUTION SERVING THE BUILDING SHALL BE REMOVED IN THEIR ENTIRETY.

○ DRAWING NOTES:

1. REMOVE ALL HVAC EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING AT ROOF LEVEL.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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ROOF PLAN DUCTWORK DEMOLITION

M1.03

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22057

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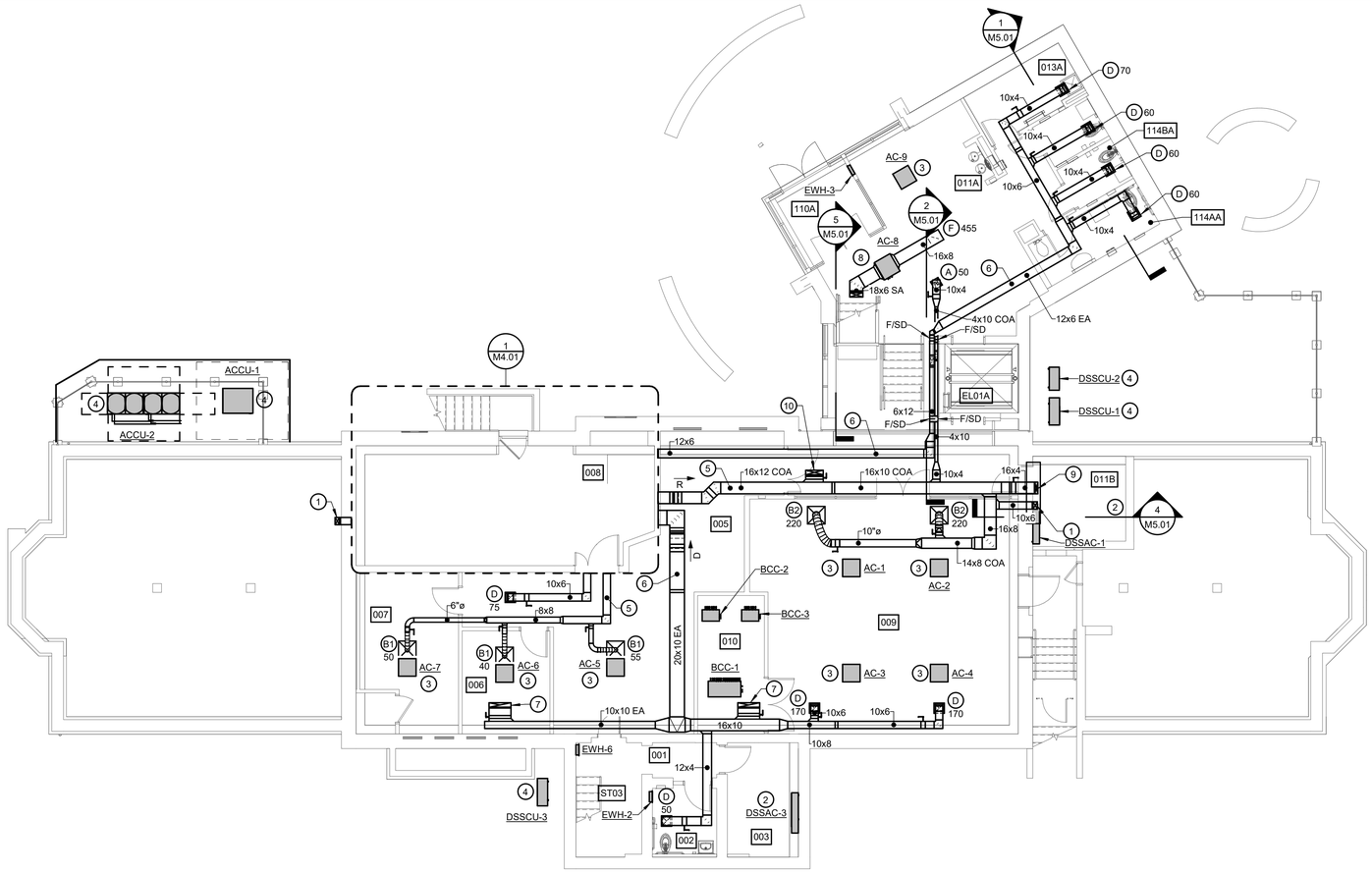

1 LOWER LEVEL PLAN - DUCTWORK - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M0.01 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DRAWING NOTES:

1. 10x6 COA UP. SEE SHEET M2.02 FOR CONTINUATION.
2. WALL MOUNTED AC-UNIT.
3. CEILING MOUNTED VRF UNIT WITH VIBRATION ISOLATION.
4. AIR COOLED CONDENSING UNIT MOUNTED AT GRADE.
5. CONDITIONED OUTSIDE AIR (COA) DUCT.
6. EXHAUST AIR DUCT.
7. 30x6 EXHAUST DUCT UP.
8. CEILING UNIT SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATION.
9. 16x4 COA UP. SEE SHEET M2.02 FOR CONTINUATION.
10. 24x6 COA UP.

LOWER LEVEL RM LIST	
001	CORRIDOR
002	RR
003	ELEC / IT
005	STAFF WORKROOM
006	OFFICE
007	BREAKROOM
008	MECHANICAL
009	MEETING ROOM
010	STORAGE
011A	LOBBY
011B	ELECTRICAL
012A	LOWER LOBBY
012D	RESTROOM
013A	JAN CLO
110A	VESTIBULE
114AA	FAMILY RESTROOM
114BA	RR
114CA	RR
115	EXTERIOR
EL01A	ELEV
ST02	STAIR
ST03	STAIR

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0 2 4 8 16 24
SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN DUCTWORK NEW WORK

M2.01

SHEET 128 OF 179

22057

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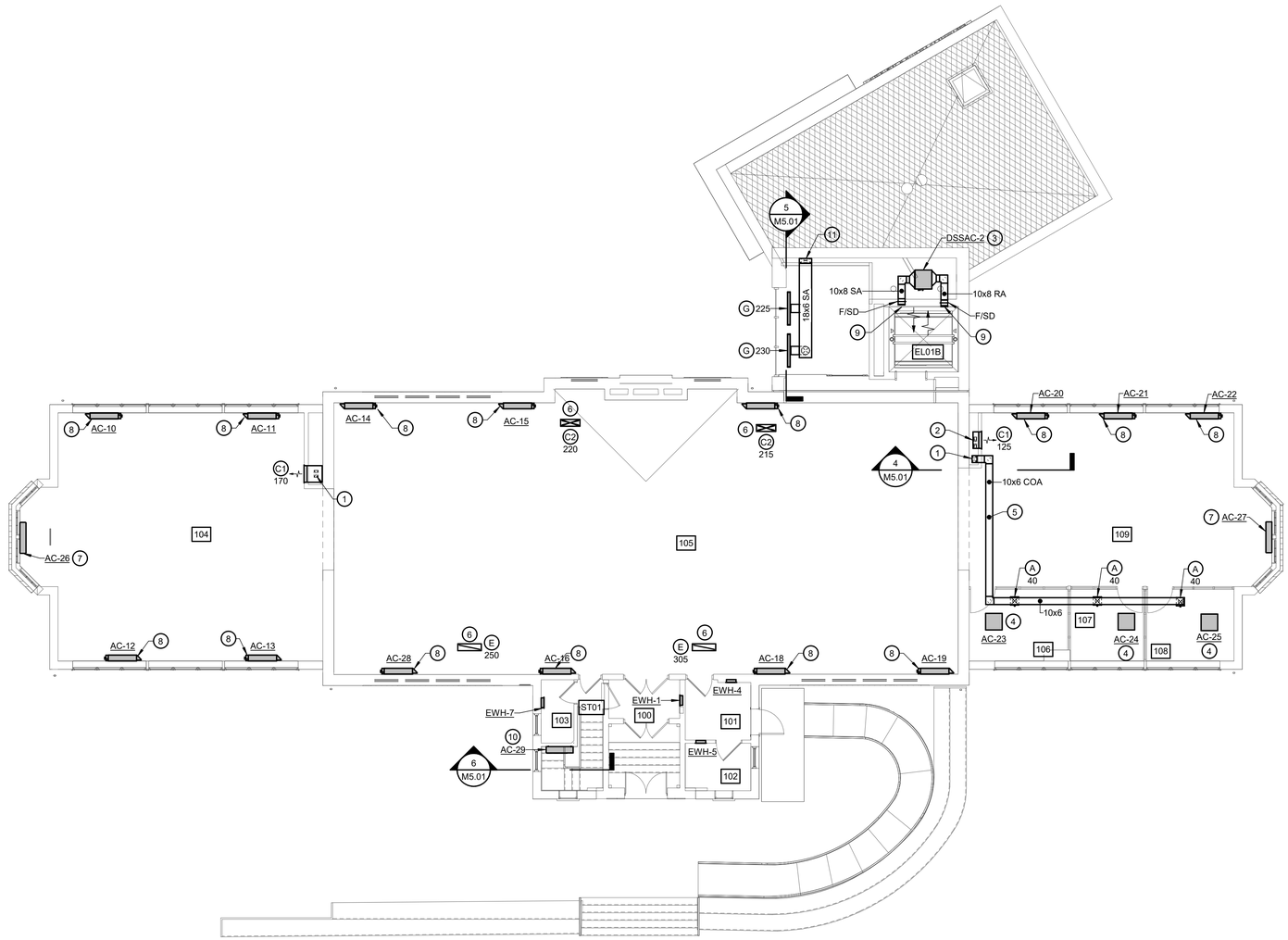
FIRST FLOOR RM LIST	
011C	LOBBY
012B	RESTROOM VESTIBULE
013C	JAN CLO
100	VESTIBULE
101	DELIVERIES
102	STORAGE
103	STORAGE
104	CHILDREN'S
105	COLLECTION
106	STUDY
107	STUDY
108	STUDY
109	ADULT
110B	VESTIBULE
114AC	FAMILY RESTROOM
114BB	RR
114CB	RR
115	EXTERIOR
EL01B	ELEV
ST01	STAIR



1 FIRST FLOOR PLAN - DUCTWORK - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M0.01 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DRAWING NOTES:

1. 10x6 COA DOWN. PROVIDE FIRE/SMOKE DAMPER AT FLOOR. SEE SHEET M2.01 FOR CONTINUATION.
2. 16x4 COA DOWN. PROVIDE FIRE/SMOKE DAMPER AT FLOOR. SEE SHEET M2.01 FOR CONTINUATION.
3. CEILING SUSPEND AC-UNIT WITH VIBRATION ISOLATION.
4. CEILING MOUNTED VRF UNIT WITH VIBRATION ISOLATION.
5. CONDITIONED OUTSIDE AIR (COA) DUCT.
6. FLOOR BAR GRILLE. PROVIDE FIRE DAMPER AT FLOOR.
7. FLOOR MOUNTED VRF UNIT.
8. CONCEALED FLOOR MOUNTED VRF UNIT INSIDE CASEWORK.
9. OPEN ENDED DUCT WITH WIRE MESH SCREEN.
10. WALL MOUNTED AC-UNIT.
11. 18x6 SUPPLY DOWN. SEE SHEET M2.01 FOR CONTINUATION.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN
DUCTWORK
NEW WORK

M2.02

SHEET 129 OF 179

22057

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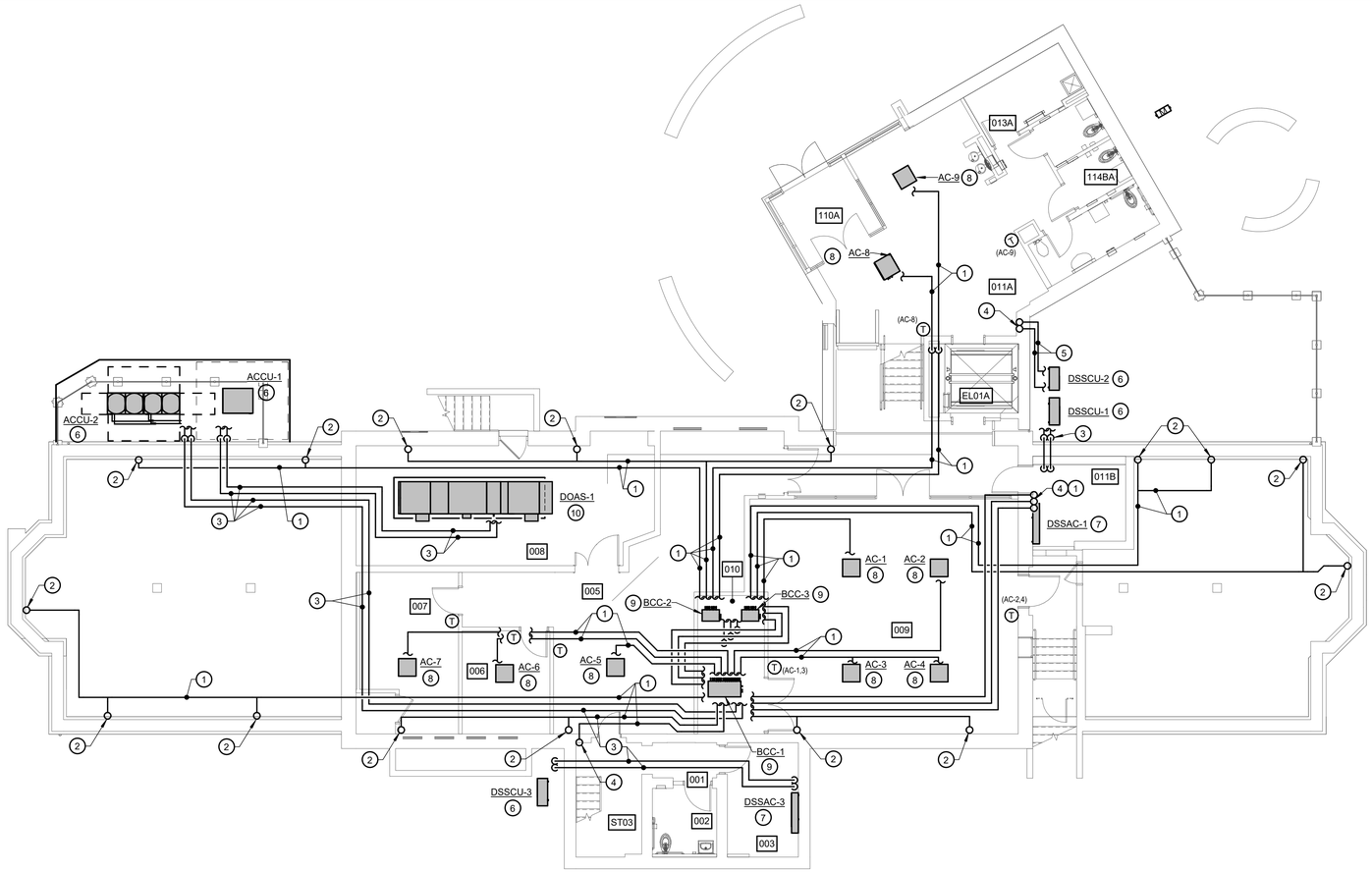
LOWER LEVEL RM LIST	
001	CORRIDOR
002	RR
003	ELEC / IT
005	STAFF WORKROOM
006	OFFICE
007	BREAKROOM
008	MECHANICAL
009	MEETING ROOM
010	STORAGE
011A	LOBBY
011B	ELECTRICAL
012A	LOWER LOBBY
012D	RESTROOM
013A	JAN CLO
110A	VESTIBULE
114AA	FAMILY RESTROOM
114BA	RR
114CA	RR
115	EXTERIOR
EL01A	ELEV
ST02	STAIR
ST03	STAIR



1 LOWER LEVEL PLAN - HVAC PIPING - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M0.01 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DRAWING NOTES:

1. REFRIGERANT PIPING STACKED. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT PIPING UP TO AC-UNIT. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
3. REFRIGERANT PIPING, SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
4. REFRIGERANT PIPING UP. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS. SEE SHEET M3.02 FOR CONTINUATION.
5. REFRIGERANT PIPING RACACKED ON WALL. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
6. AIR COOLED CONDENSING UNIT MOUNTED AT GRADE.
7. WALL MOUNTED AC-UNIT.
8. CEILING SUSPENDED AC-UNIT WITH VIBRATION ISOLATION.
9. BRANCH CONTROLLER SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATION.
10. DOAS UNIT MOUNTED ON MINIMUM 4" HOUSEKEEPING PAD.

0 2 4 8 16 24
SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN HVAC PIPING NEW WORK

M3.01

SHEET 130 OF 179

22057

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FIRST FLOOR RM LIST	
011C	LOBBY
012B	RESTROOM VESTIBULE
013C	JAN CLO
100	VESTIBULE
101	DELIVERIES
102	STORAGE
103	STORAGE
104	CHILDREN'S
105	COLLECTION
106	STUDY
107	STUDY
108	STUDY
109	ADULT
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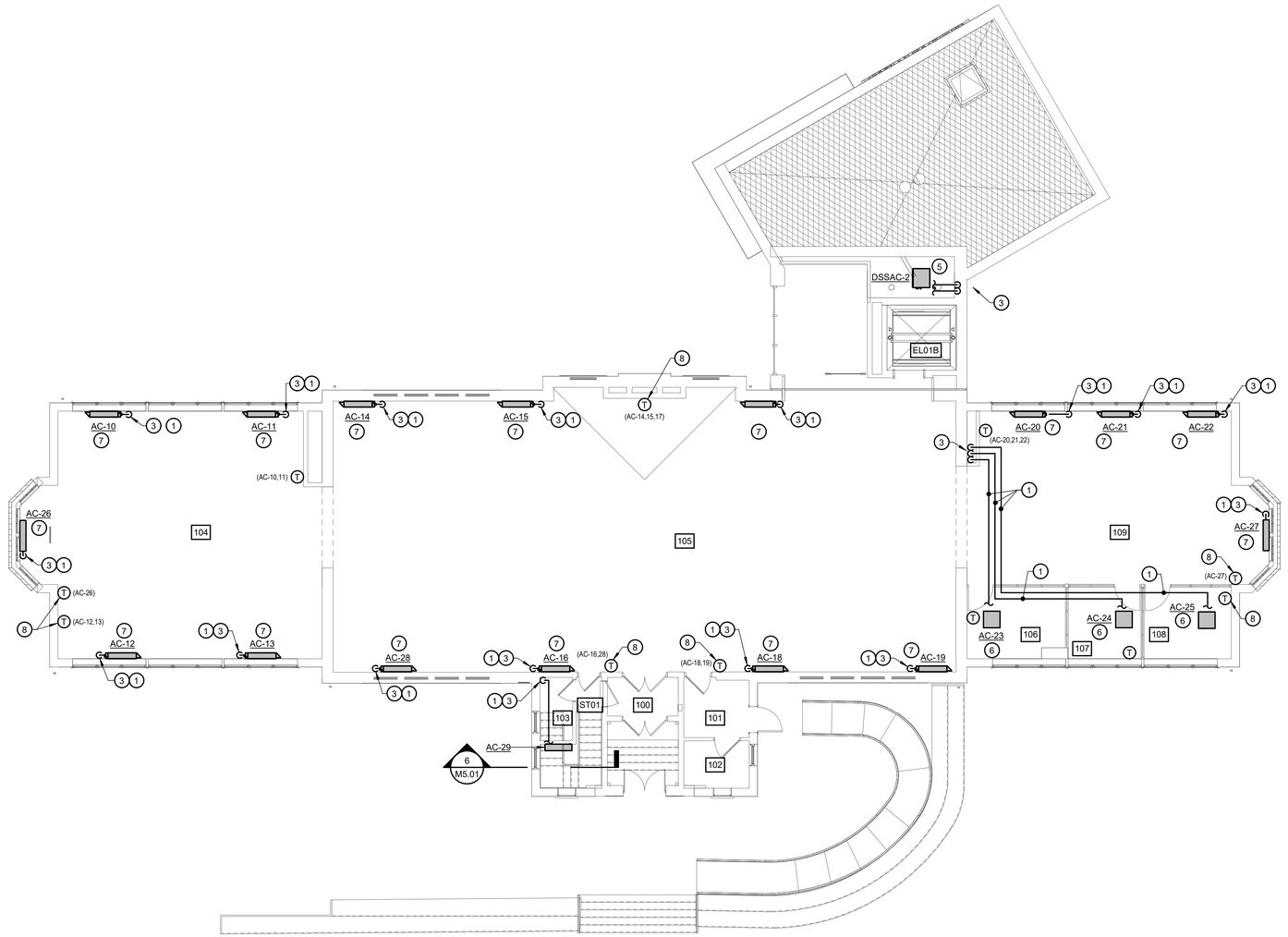
EL01B	ELEV
ST01	STAIR



1 FIRST FLOOR PLAN - HVAC PIPING - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M0.01 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

○ DRAWING NOTES:

1. REFRIGERANT PIPING STACKED. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT PIPING. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
3. REFRIGERANT PIPING DOWN. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS. SEE SHEET M3.01 FOR CONTINUATION.
4. REFRIGERANT PIPING RACACKED ON WALL. SIZE AND QUANTITY PER MANUFACTURERS RECOMMENDATIONS.
5. AC-UNIT SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATION.
6. CEILING SUSPENDED AC-UNIT WITH VIBRATION ISOLATION.
7. FLOOR MOUNTED AC-UNIT.
8. THERMOSTAT MOUNTED WITH INSULATED BACK BOX.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN HVAC PIPING NEW WORK

M3.02

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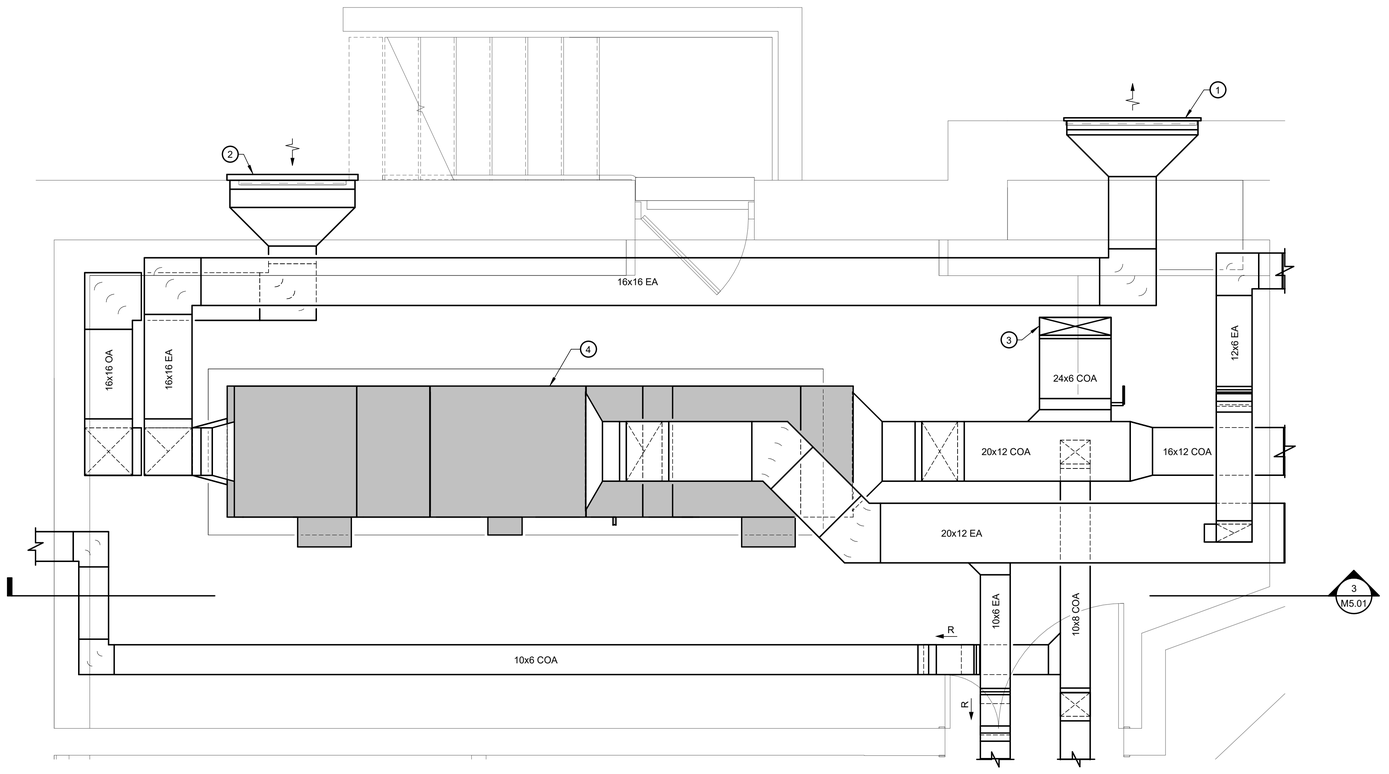

GENERAL NOTES:

1. REFER TO M0.01 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DRAWING NOTES:

1. MINIMUM EXHAUST LOUVER TO FIT MASONRY OPENING APPROXIMATELY 5'-4" x 3'-8", 50% MINIMUM FREE AREA. PROVIDE UNDER ANOTHER DIVISION.
2. 42x24 INTAKE LOUVER WITH A 50% MINIMUM FREE AREA. PROVIDE UNDER ANOTHER DIVISION.
3. 24x6 COA UP.
4. DOAS-1 MOUNTED ON 4" MINIMUM HOUSEKEEPING PAD.

1 M2.01 PART LOWER LEVEL PLAN - DUCTWORK - NEW WORK

SCALE: 1/2" = 1'-0"

0 1 2 4 6

SCALE: 1/2" = 1'-0"

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PART FLOOR PLANS HVAC NEW WORK

M4.01

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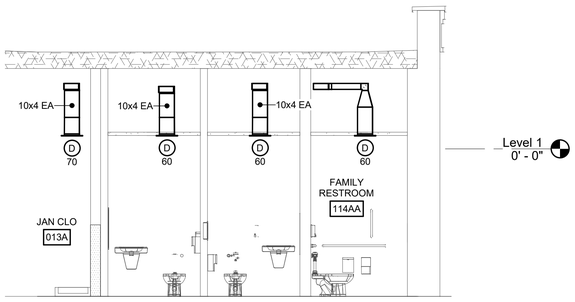
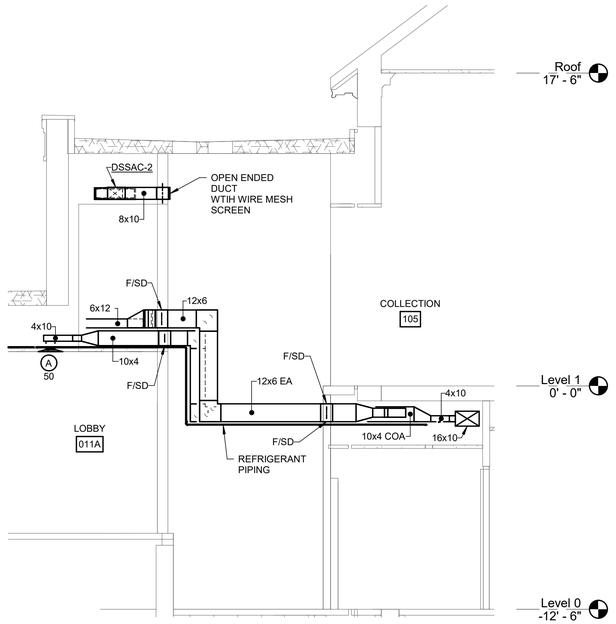


1 SECTION AT REST ROOMS

SCALE: 1/4" = 1'-0"



2 SECTION AT SHAFT

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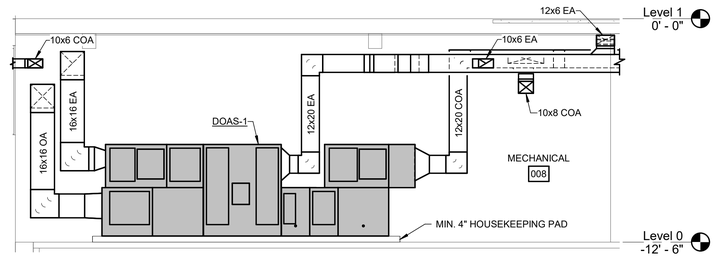

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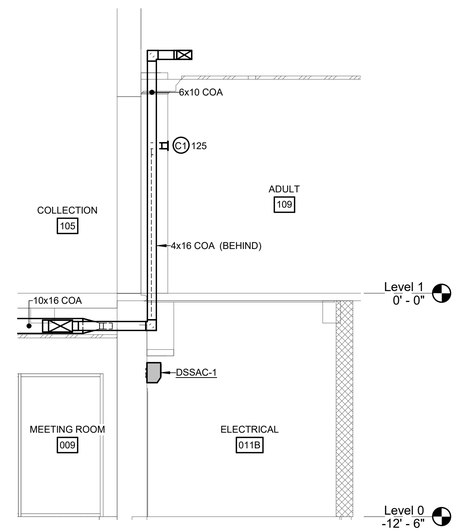

4 SECTION AT ROOM 011B

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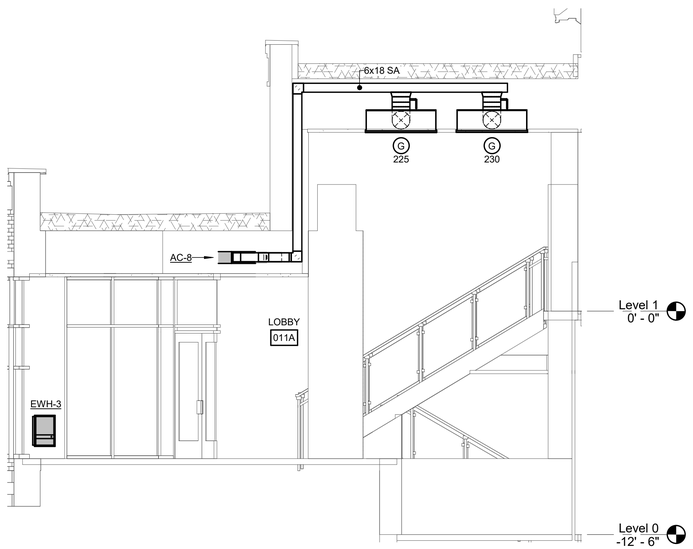

5 SECTION AT STAIRS1

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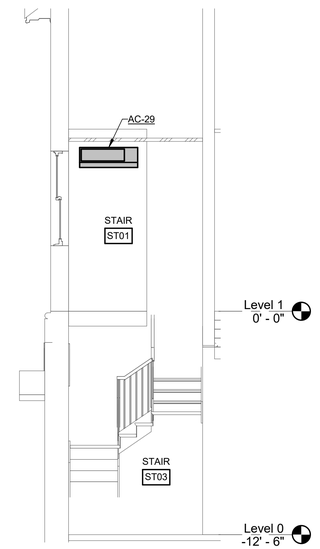

6 SECTION AT STAIRS ST01

SCALE: 1/4" = 1'-0"

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MECHANICAL SECTIONS

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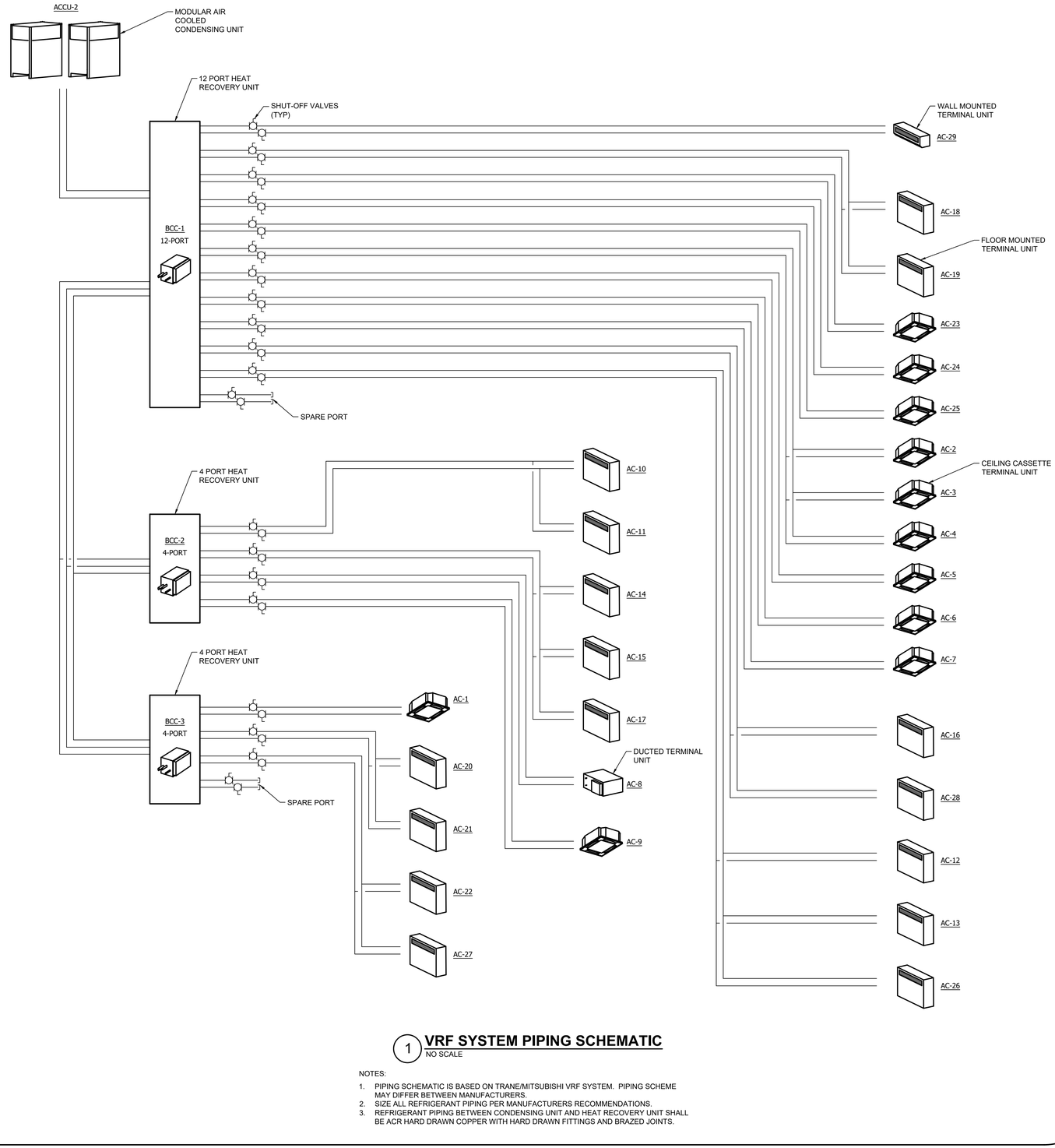

1 VRF SYSTEM PIPING SCHEMATIC

NO SCALE

NOTES:

1. PIPING SCHEMATIC IS BASED ON TRANE/MITSUBISHI VRF SYSTEM. PIPING SCHEME MAY DIFFER BETWEEN MANUFACTURERS.
2. SIZE ALL REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS.
3. REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND HEAT RECOVERY UNIT SHALL BE ACR HARD DRAWN COPPER WITH HARD DRAWN FITTINGS AND BRAZED JOINTS.

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VRF PIPING SCHEMATICS

M6.01
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22057

BKM:22148.01

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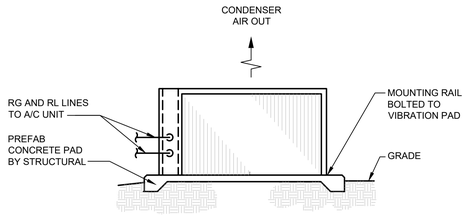
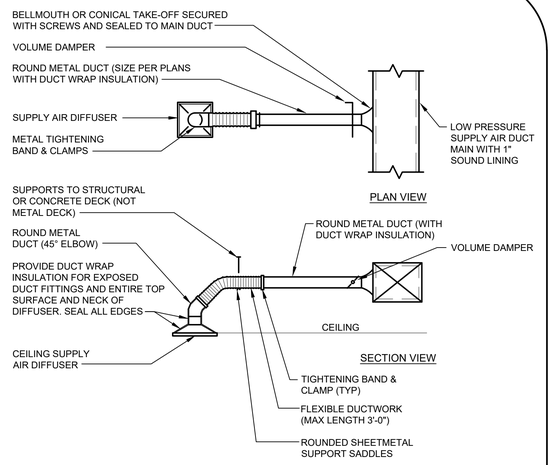
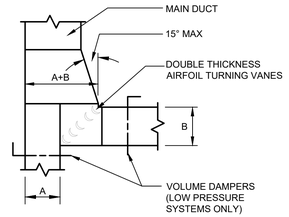


1 TYPICAL CONDENSING UNIT INSTALLATION DETAIL
NO SCALE

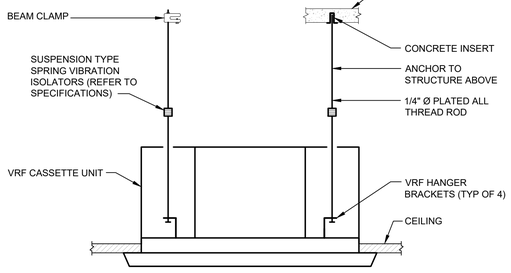


2 ROUND NECK DIFFUSER DETAIL
NO SCALE



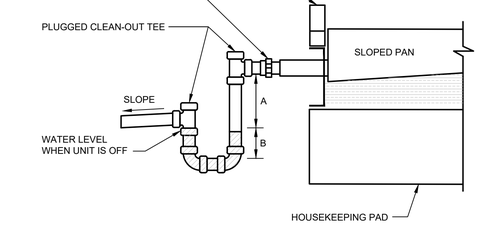
3 MAJOR DUCT BRANCH DETAIL
NO SCALE

NOTE: MAJOR DUCT IS ANY SIDE 25" OR GREATER RECTANGULAR ELBOWS ONLY WHERE SHOWN.



4 VRF CASSETTE MOUNTING DETAIL
NO SCALE

NOTE: REFER TO MANUFACTURERS RECOMMENDATIONS FOR FURTHER MOUNTING, REFRIGERANT PIPING AND CONDENSATE TRAP REQUIREMENTS.

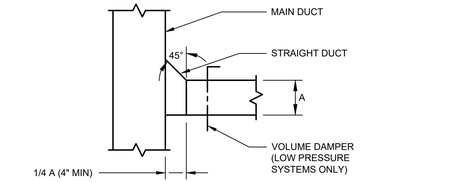


A = (TSP - ESP) x 1.0" + 1.0"

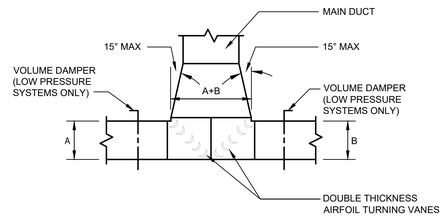
B = A x 0.5"

5 CONDENSATE DRAIN PIPING WITH DRAW THROUGH TRAP DETAIL
NO SCALE

NOTE: HOUSEKEEPING PAD SHALL BE A MINIMUM OF 4" IN HEIGHT AS REQUIRED TO ACCOMMODATE THE CONDENSATE TRAP INSTALLATION ABOVE THE FLOOR.



MINOR DUCT BRANCH DETAIL
NO SCALE



6 RECTANGULAR ELBOW DUCT TEE DETAIL
NO SCALE

NOTE: THIS DETAIL APPLIES TO BOTH ELBOWS & TEES IN VERTICAL AND HORIZONTAL APPLICATIONS.

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MICHAEL CHARLES BUBB
No. 18528
PROFESSIONAL ENGINEER

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MECHANICAL DETAILS

M7.01
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22057

BKM:22148.01

Plotted By: Sean MacCubbin | 9/9/2024 2:47 PM
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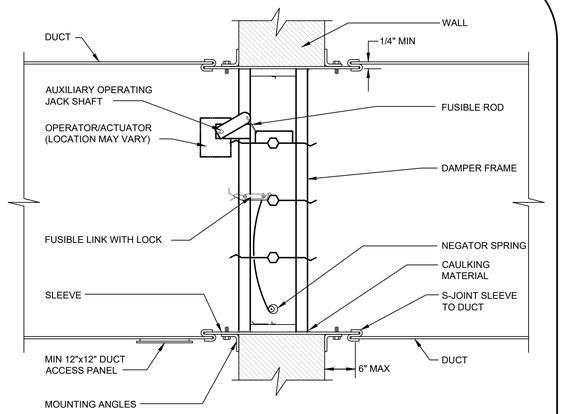
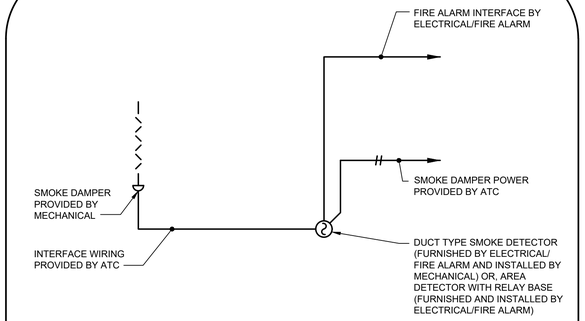


1 COMBINATION FIRE AND SMOKE DAMPER DETAIL

NO SCALE MDD074

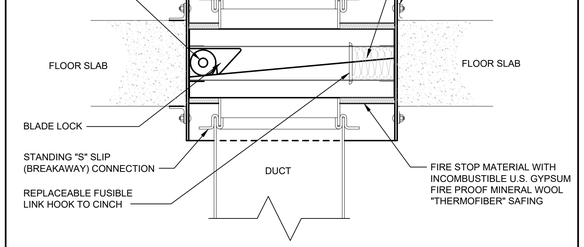
NOTE: DUCT ACCESS DOORS SHALL BE PROVIDED TO ACCESS FIRE/SMOKE DAMPER AS WELL AS ASSOCIATED SMOKE DETECTOR.



2 SMOKE DAMPER WIRING DETAIL

NO SCALE MDD123

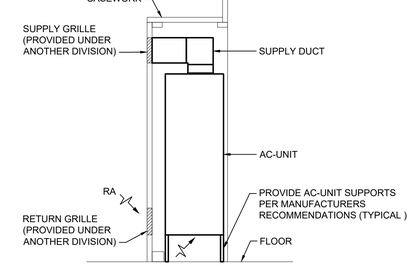
NOTES:
1. SMOKE DAMPER SHALL CLOSE WHEN PRODUCTS OF COMBUSTION ARE SENSED BY SMOKE DETECTOR.
2. SMOKE DETECTOR SHALL BE INSTALLED WITHIN FIVE (5) FEET OF THE SMOKE DAMPER.
3. CONNECTIONS SHALL BE SIMILAR FOR COMBINATION FIRE/ SMOKE DAMPERS.
4. COORDINATE DAMPER VOLTAGE WITH SMOKE DETECTOR RELAY VOLTAGE.



3 VERTICAL DUCT FIRE DAMPER DETAIL

NO SCALE MDD072

NOTES:
1. FIRE DAMPERS TO HAVE BREAKAWAY JOINT BETWEEN COLLARS AND DUCT. (COLLARS SHALL BE INTEGRAL WITH FIRE DAMPERS FRAME).
2. FIRE DAMPER SHALL BE U.L. LABELED.
3. GALVANIZED SLEEVE AND FRAME CONSTRUCTION SHALL BE MINIMUM 20 GA SHOULD DUCT BE HEAVIER THAN 20 GAUGE, PROVIDE SLEEVE AND FRAME TO MATCH DUCT CONSTRUCTION.



4 AC-UNIT AND BUILT-IN CASEWORK DETAIL

NO SCALE

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DOAS-1 & 2 REQUIRED DDC INTERFACE POINTS

POINT	TYPE	UNITS	ATC		
			TREND	ALARM	WRITABLE
SYSTEM COMMAND	BO	OFF/ON			X
SYSTEM STATUS	BI	OFF/ON	X		
ALARM STATUS	SW		X		
CONTROL STATUS	SW				
OUTDOOR AIR DEWPOINT	SW	DEG F			
OUTDOOR AIR HUMIDITY	SW	% RH			
OUTDOOR AIR TEMPARATURE	SW	% RH			
OUTDOOR AIR WETBULB	SW	DEG F			
OUTDOOR AIR CFM	SW AI	CFM	X	X	
ELECTRIC COIL	-	-			
OCCUPANCY OVERRIDE	BI	OCC./ UNOCC.			
RETURN AIR HUMIDITY, H2	AI	%RH	X		
SUPPLY AIR TEMPERATURE, TY	SW AI	DEG F	X		
SUPPLY FAN STATUS	BI			X	
EXHAUST FAN STATUS	BI				
MODULATING COOL POSITION	AI	%	X		
MODULATING HEAT POSITION	AI	%	X		
BYPASS DAMPER POSITION	SW	OPEN / CLOSED			
RETURN DAMPER POSITION	SW AI	%			
OUTSIDE AIR DAMPER POSITION	SW AI	%			
DX COIL FREEZE PROTECTION	SW AI	DEG F		X	
OCCUPANCY	SW AV				
SUPPLY AIR TEMPERATURE COOLING SETPOINT	SW AV	DEG F			X
SUPPLY AIR TEMPERATURE HEATING SETPOINT	SW AV	DEG F			X
SUPPLY AIR HUMIDITY, H4	SW	% RH			
COOLING ENABLED	SW BI				
HEATING ENABLED	SW BI				
DIRTY FILTER ALARM	SW BI	NORMAL / ALARM		X	
WHEEL ROTATION STATUS	SW BI	OFF/ ON			
OCCUPIED HUMIDITY SETPOINT	SW AV	% RH			X
UNOCCUPIED HUMIDITY SETPOINT	SW AV	% RH			X

NOTES:
1. THE ABOVE POINTS LIST IS NOT A COMPLETE POINTS LIST NEEDED TO ACHIEVE CONTROL SEQUENCES. THIS IS INTENDED AS AN INTERFACE POINTS LIST BETWEEN EMCS AND EQUIPMENT MANUFACTURER ONLY. CONTRACTOR SHALL PROVIDE ALL COMPONENTS NECESSARY TO ACHIEVE CONTROL SEQUENCES INDICATED AND INTERFACE POINTS LISTED ABOVE.
2. ALL SENSORS AND DEVICES SHIPPED LOOSE SHALL BE INSTALLED AND CONNECTED TO UNIT MANUFACTURER CONTROLLER BY ATC CONTRACTOR.
3. ALL POINTS LISTED ABOVE, AS WELL AS, ALL SENSORS AND DEVICES INDICATED ON ATC DRAWINGS, SHALL HAVE CAPABILITY TO BE VIEWED AT EMCS. FINAL LIST OF POINTS TO BE VIEWED SHALL BE COORDINATED WITH MCPS.
4. UNIT MANUFACTURER SHALL BE RESPONSIBLE FOR ALL UNIT OPERATION COMMISSIONING.

SPACE CONTROL

A. GENERAL:

1. OCCUPIED/UNOCCUPIED MODE SHALL BE DETERMINED BY THE EMCS.
2. EACH THERMOSTAT/SENSOR SHALL HAVE INDIVIDUAL OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINTS. EACH THERMOSTAT/SENSOR SHALL BE CAPABLE OF INDIVIDUAL TIME OF DAY SCHEDULING.

ROOM SETPOINT SCHEDULE		
	MODE	ROOM SETPOINT (°F)
OCCUPIED	COOLING	75
	HEATING	70
UNOCCUPIED	COOLING	80
	HEATING	60

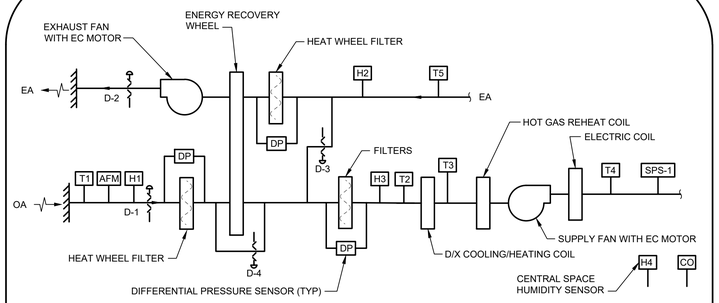
*ALL VALUES IN TABLE SHALL BE ADJUSTABLE THRU EMCS

B. SPLIT SYSTEM

1. SPACE THERMOSTAT SHALL ENERGIZE REFRIGERANT SYSTEM IN STAGES TO MAINTAIN TEMPERATURE SETPOINT.

C. VRF TERMINAL UNIT:

1. THE UNIT SHALL MODULATE THE ELECTRONIC EXPANSION VALVE TO MAINTAIN SPACE SETPOINT AS SCHEDULED ABOVE.



DOAS-1 CONTROL

1. GENERAL

1.1. ALL CONTROL DEVICES AND ACCESSORIES (EXCEPT FOR THE REFRIGERATION CIRCUIT, MOD'S AND AIRFLOW MONITORS) SHALL BE PROVIDED BY THE ATC MANUFACTURE UNLESS OTHERWISE NOTED. THE UNIT MANUFACTURER SHALL PROVIDE UNIT WITHOUT ANY OTHER MANUFACTURED PROVIDED CONTROLS REFER TO INTERFACE POINTS LIST FOR BAS INTEGRATION.

1.2. SUPPLY AND EXHAUST FANS SHALL OPERATE CONTINUOUSLY IN THE OCCUPIED MODE. THE ENERGY RECOVERY WHEEL SHALL BE ENERGIZED AND D-1 AND D-2 SHALL BE FULLY OPEN. D-3 SHALL BE CLOSED.

1.3. H-O-A SWITCH SHALL BE *KEPT* IN "AUTO" POSITION. IN "OFF" POSITION, D-1 AND D-2 SHALL BE FULLY CLOSED AND ENERGY RECOVERY WHEEL SHALL BE DE-ENERGIZED.

1.4. OCCUPIED-UNOCCUPIED MODE SHALL BE AS DETERMINED BY THE ENERGY MANAGEMENT CONTROL SYSTEM (EMCS).

1.5. PROVIDE SEPARATE, INDEPENDENT LINKAGE CONTROL FOR EACH M.O.D. (D-1, D-2 & D-3).

2. TEMPERATURE CONTROL

2.1. OCCUPIED:

2.1.1. THE SUPPLY AIR TEMPERATURE, AS SENSED BY T4, SHALL BE MAINTAINED AT SET POINT BY ENERGIZING ENERGIZING THE DX SYSTEM IN STAGES. THE SUPPLY AIR TEMPERATURE SHALL BE PER THE FOLLOWING SCHEDULE:

SUPPLY AIR RESET SCHEDULE	
OA TEMP (°F)	SUPPLY AIR TEMP (°F)
ABOVE 75°F	60
75°F OR LOWER	72

*ALL VALUES IN TABLE SHALL BE ADJUSTABLE

2.1.2. DEHUMIDIFICATION:

2.1.2.1. WHEN THE UNIT IS NOT IN COOLING MODE AND THE HUMIDITY, AS SENSED BY H2, RISES ABOVE 55% RH (ADJUSTABLE), THE DX SYSTEM SHALL ENERGIZE AND/OR MODULATE TO ACHIEVE 55°F (ADJUSTABLE) AS SENSED BY T3. THE HOT GAS REHEAT COIL SHALL BE ENERGIZED TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE.

2.1.2.2. WHEN THE HUMIDITY, AS SENSED BY H2, FALLS BELOW 45% (ADJUSTABLE), RETURN TO 2.1.1 CONTROL.

2.2. UNOCCUPIED:

2.2.1. THE SUPPLY FAN, EXHAUST FAN AND ENERGY RECOVERY WHEEL SHALL BE DE-ENERGIZED AND DAMPERS D-1, D-2 AND D-4 SHALL CLOSE.

2.2.2. ON A RISE IN HUMIDITY ABOVE 55° RH (ADJUSTABLE) AS SENSED BY H4, D-3 SHALL OPEN AND SUPPLY FAN SHALL ENERGIZE. THE DX SYSTEM SHALL ENERGIZE/ MODULATE TO ACHIEVE 55°F (ADJUSTABLE) AS SENSED BY T3 AND HOT GAS REHEAT COIL SHALL BE ENERGIZED TO MAINTAIN SUPPLY AIR SETPOINT. WHEN HUMIDITY FALLS BELOW 45° RH (ADJUSTABLE) RETURN TO 2.2.A ABOVE.

3. AIR FLOW CONTROL

3.1. OCCUPIED: AIR FLOW MONITOR, AFM-1, LOCATED IN OUTSIDE AIR PATH SHALL MODULATE SUPPLY FAN VFD TO MAINTAIN SCHEDULED OUTSIDE AIR FLOW RATE.

3.2. THE DEVICE SHALL EMPLOY METHODS DESCRIBED IN ANSI/ASHRAE STANDARD 111.

3.3. THE DEVICE SHALL HAVE AN ACCURACY OF ±10% OF THE OUTDOOR AIRFLOW.

3.4. THE DEVICE SHALL BE CAPABLE OF NOTIFYING THE BUILDING OPERATOR BY ACTIVATING A LOCAL INDICATOR OR SENDING A SIGNAL TO A BUILDING MONITORING SYSTEM, WHENEVER AN OUTDOOR AIR FAULT CONDITION EXISTS. THIS NOTIFICATION SHALL REQUIRE MANUAL RESET.

4. ENERGY RECOVERY OPERATION

4.1. WHEN THE OUTDOOR AIR ENTHALPY IS GREATER THAN THE RELIEF AIR ENTHALPY, THE TOTAL ENERGY WHEEL SHALL BE ENABLED AND OUTDOOR AIR BYPASS DAMPER (D-4) SHALL BE CLOSED. WHEN THE OUTDOOR AIR ENTHALPY IS LESS THAN THE RELIEF AIR ENTHALPY AND THE AHU IS COOLING, THE TOTAL ENERGY WHEEL SHALL BE DISABLED AND OUTDOOR AIR BYPASS DAMPER (D-4) SHALL BE OPEN. WHEN COMMANDED OFF, THE TOTAL ENERGY WHEEL SHALL OPERATE FOR 2 MINUTES EVERY 4 HOURS TO AVOID FOULING. WHEN THE AHU IS HEATING, THE TOTAL ENERGY WHEEL SHALL BE ENABLED AS THE FIRST STAGE OF HEAT, THE OUTDOOR AIR BYPASS DAMPER (D-4) SHALL MODULATE (AS NECESSARY) TO MAINTAIN DISCHARGE AIR TEMPERATURE HEATING SETPOINT OF 60.0 DEG. F (ADJ.). IF THE EXHAUST-SIDE LEAVING DRY-BULB TEMPERATURE DROPS BELOW THE FROST THRESHOLD SETPOINT 25 DEG. F (ADJ.), THE OUTDOOR AIR BYPASS DAMPER (D-4) SHALL MODULATE TO MAINTAIN THE RELIEF-SIDE LEAVING DRY-BULB TEMPERATURE AT SETPOINT. IF THE OUTDOOR AIR BYPASS DAMPER (D-4) REACHES 100% OPEN FOR 5 MINUTES (ADJ.), THE TOTAL ENERGY WHEEL SHALL BE DISABLED TO PREVENT FROSTING.

5. MISCELLANEOUS

5.1. THE EMCS SHALL MONITOR FILTER LOADING ACROSS EACH FILTER BANK. ALARM AT THE EMCS.

5.2. ON FAILURE OF SUPPLY FAN, EXHAUST FAN AND ENERGY RECOVERY WHEEL SHALL BE DE-ENERGIZED AND DAMPERS D-1 AND D-2 SHALL CLOSE. ALARM AT EMCS.

5.3. ON FAILURE OF EXHAUST FAN, D-2 SHALL CLOSE. ALARM AT EMCS.

5.4. ON FAILURE OF ENERGY RECOVERY WHEEL, ALARM AT EMCS.

5.5. HIGH LIMIT STATIC PRESSURE SENSOR, SPS-1. SHALL DE-ENERGIZE FANS WHEN STATIC PRESSURE REACHES 6.0" (ADJUSTABLE). ALARM AT THE EMCS.

5.6. WHEN THE AIR TEMPERATURE, AS SENSED BY T4, FALLS BELOW 40°F, THE SUPPLY FAN SHALL DE-ENERGIZE, DAMPER D-1 SHALL CLOSE AND AN ALARM SIGNAL SHALL BE INDICATED AT THE EMCS.

5.7. ON CONDENSATE PAN ALARM, UNIT SHALL BE DE-ENERGIZED. ALARM AT EMCS.

ATC GENERAL NOTES

1. THE ATC WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE AND OPERABLE CONTROL SYSTEM, INCLUDING ALL DEVICES REQUIRED TO ACHIEVE THE SEQUENCES AND FUNCTIONS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
2. THE ATC CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WIRING AND CONDUIT FROM POWER SOURCE, INCLUDING TERMINATION TO ALL REQUIRED ATC RELATED POWER CONNECTIONS INCLUDING, BUT NOT LIMITED TO, DDC CONTROLLERS, SENSORS, VALVE AND DAMPER ACTUATORS, AIR FLOW MONITORS, ATC PANELS, ETC. THE ATC CONTRACTOR SHALL OBTAIN A SEPARATE ELECTRICAL PERMIT AS REQUIRED BY THE LOCAL AUTHORITY. THE ATC CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL POWER REQUIREMENTS NECESSARY FOR A COMPLETE INSTALLATION FROM THE POWER SOURCE TO ALL ATC RELATED CONNECTIONS.
3. THE ATC CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL CONTROLLERS, DEVICES AND ACCESSORIES ARE PROVIDED AS REQUIRED TO ACCOMPLISH ALL CONTROL FUNCTIONS AND SEQUENCES INDICATED IN THE CONTRACT DOCUMENTS. WHERE CONTROL RELATED DEVICES ARE NOT PROVIDED BY AN EQUIPMENT MANUFACTURER, IT SHALL BE THE RESPONSIBILITY OF THE ATC CONTRACTOR TO PROVIDE THE CONTROL DEVICES REQUIRED TO ACCOMPLISH THE FUNCTIONS AND SEQUENCES INDICATED.
4. THE ATC CONTRACTOR SHALL PROVIDE ALL CONTROLLERS, ATC PANELS, DEVICES, POINTS, ETC REQUIRED TO ACCOMPLISH THE CONTROL SEQUENCES AND FUNCTIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL POINTS SHALL BE TIED INTO THE ENERGY MANAGEMENT CONTROL SYSTEM (EMCS). IN ADDITION, THE ATC CONTRACTOR SHALL PROVIDE ALL CONTROLLERS, DEVICES, POINTS, ETC REQUIRED TO CONTROL, OPERATE AND MONITOR ALL EQUIPMENT (IE. AIR HANDLING UNITS, TERMINAL UNITS, FANS, VALVES, DAMPERS, FLOW MEASURING DEVICES, SENSORS, ETC.) INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
5. EACH AIR DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH NOT LESS THAN ONE (1) MANUALLY OPERABLE MEANS TO STOP THE OPERATION OF THE SUPPLY, RETURN AND EXHAUST FAN(S) IN AN EMERGENCY. THE MEANS OF MANUAL OPERATION SHALL BE LOCATED AT A LOCATION APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ). TYPICALLY, PROVIDE A MANUAL FIRE DEPARTMENT HVAC SHUTDOWN VIA A KNOX KEY SWITCH FOR ALL SUPPLY, RETURN AND EXHAUST FAN(S) AS REQUIRED BY THE LOCAL AHJ. SWITCH SHALL BE LOCATED ADJACENT TO THE FIRE ALARM ANNUNCIATOR PANEL AND SHUTDOWN CONTROL SHALL BE HARD-WIRED IN CONDUIT THROUGH THE ATC SYSTEM. ALL WORK SHALL COMPLY WITH NFPA 90A AND THE NATIONAL ELECTRICAL CODE. COORDINATE EXACT REQUIREMENTS WITH AHJ.
6. PROVIDE EQUIPMENT STATUS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. EQUIPMENT FAILURES SHALL BE ALARMED AT THE EMCS. PROVIDE END SWITCHES FOR ALL MOTOR OPERATED DAMPERS. END SWITCHES SHALL BE INTERFACED WITH THE EMCS.
7. PROVIDE CURRENT SENSING RELAYS FOR ALL MECHANICAL EQUIPMENT AS REQUIRED TO PROVIDE EQUIPMENT STATUS. EQUIPMENT STATUS SHALL BE INDICATED AS THE EMCS.
8. PROVIDE TEMPERATURE SENSORS TIED INTO THE EMCS AT THE INLET AND OUTLET OF ALL HEAT EXCHANGE EQUIPMENT (AIR HANDLING UNITS, ETC.)
9. GENERAL EXHAUST FANS SHALL BE PROVIDED WITH MOTOR OPERATED DAMPERS. UNLESS OTHERWISE NOTED, DAMPERS SHALL OPEN WHEN FAN IS ENERGIZED AND CLOSED WHEN FAN IS DE-ENERGIZED.
10. ALL SAFETIES FOR AIR HANDLING EQUIPMENT (FREEZESTATS, PRESSURE SWITCHES, ETC.) SHALL BE HARDWIRED TO THE FAN STARTER.
11. ALL AIR FLOW MONITORS (AFM) AND CO2 SENSORS SHALL GENERATE AN ALARM CONDITION AT THE EMCS WHENEVER CONDITIONS EXCEED SETPOINT (ADJUSTABLE) BY 10% OR MORE.
12. PROVIDE ONE (1) CO2 SENSOR IN EACH CONFERENCE/MEETING ROOM, MOUNTED BETWEEN THREE AND SIX FEET ABOVE THE FLOOR. CO2 SENSORS SHALL BE MONITORED AT THE EMCS.
13. ALL AIR HANDLING EQUIPMENT (I.E. DOAS UNITS, VRF TERMINAL UNITS, SPLIT SYSTEM AC UNITS, ETC.) WITH A COOLING COIL AND ALL FUEL-FIRED APPLIANCES THAT PRODUCE CONDENSATE SHALL BE EQUIPPED WITH A CONDENSATE WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 WHICH SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE EQUIPMENT-SUPPLIED DRAIN PAN AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN. ALL CONDENSATE PUMP BASINS SHALL ALSO BE PROVIDED WITH A WATER-LEVEL DETECTION DEVICE THAT SHUTS OFF EQUIPMENT SERVED WHEN OVERFLOW IS SENSED. LEAK DETECTION FOR ALL UNITS SHALL ALSO ALARM AT THE BUILDING AUTOMATION SYSTEM (BAS).
14. PROVIDE A TEMPERATURE SENSOR FOR ALL IT ROOMS, ELEVATOR MACHINE ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, MONITOR TEMPERATURE AT THE BAS; SHOULD TEMPERATURE RISE ABOVE SETPOINT (ADJUSTABLE), ALARM AT THE BAS.
15. PROVIDE THERMOSTAT/SENSOR GUARDS IN ALL AREAS SUBJECT TO POTENTIAL DAMAGE. THERMOSTAT/SENSOR GUARDS SHALL BE CLEAR, IMPACT RESISTANT LOCKABLE PLASTIC OR APPROVED EQUIVALENT. THERMOSTAT/SENSOR GUARDS SHALL BE PROVIDED IN THE FOLLOWING AREAS AND OTHER SIMILAR TYPE SPACES SUBJECT TO POTENTIAL DAMAGE: MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC. IN ADDITION, UNLESS INDICATED OTHERWISE BY THE OWNER,
16. ALL SETPOINTS INDICATED ON THE SEQUENCES SHALL BE ADJUSTABLE.
17. ALL ATC WIRING SHALL BE INSTALLED IN CONDUIT.
18. REFER TO SPECIFICATIONS FOR FUNCTIONAL PERFORMANCE TEST VERIFICATION REQUIREMENTS.
19. PROVIDE A PC BASED OPERATOR'S WORKSTATION WITHIN THE BUILDING AT A LOCATION DETERMINED BY THE OWNER, INCLUDING A FLAT SCREEN MONITOR (MINIMUM 21") AND A COLOR LASER PRINTER. PROVIDE COLOR GRAPHICS OF ALL SYSTEMS TO BE CONTROLLED, MONITORED AND ALARMED BY THE EMCS. COMPUTER HARDWARE AND SOFTWARE SHALL BE COMPATIBLE WITH THE MOST CURRENT VERSION OF THE ATC VENDOR'S SOFTWARE AND GRAPHICS PACKAGES.

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MECHANICAL CONTROLS (ATC)

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DEDICATED OUTSIDE AIR UNIT SCHEDULE

DESIG	LOCATION	AIRFLOW CONDITIONS				SUPPLY FAN DATA					EXHAUST FAN DATA				ENERGY WHEEL DATA								COOLING COIL												HOT GAS REHEAT (MBH)	HEATING COIL						ELECTRICAL DATA			MIN EER	BASIS OF DESIGN	
															SUMMER			WINTER			RECOVERED CAPACITY (MBH)		HP																								
		SA CFM	SA ESP (IN)	EA CFM	EA ESP (IN)	TYPE	CFM	TSP (IN)	HP	MAX BHP	TYPE	CFM	HP	MAX BHP	OA EAT DB°F / WB°F	EA EAT DB°F / WB°F	LAT DB°F / WB°F	OA EAT DB°F / WB°F	EA EAT DB°F / WB°F	LAT DB°F / WB°F	COOLING	HEATING		TYPE	FLUID	TOTAL MBH	SENS MBH	EAT DB/WB	LAT DB/WB	MIN ROWS	MAX FPI	MAX APD	MAX FV						TYPE	KW	MBH	EAT (°F)	LAT (°F)	MAX APD (IN)	MAX FV (FPM)	VOLTS / PH	MCA	MOCP		MANUF.	MODEL
DOAS-1	008 MECHANICAL	1,525	1.00	1,485	0.90	FC	1,525	3.7	3.0	2.5	PL	1,485	1.5	1.1	100 / 78	75 / 63.54	81.6 / 68.1	0 / -2	70 / 53	49.1 / 40.2	58.7	80.9	0.25	DX	R-454B	80.8	49.4	81.6 / 68.1	52.0 / 50.5	6	14	0.40	500	18.00	ELECTRIC	16.0	54.6	60	90.2	0.12	500	208 / 3	(SEE NOTE #7)	(SEE NOTE #7)	0.0	TRANE	CSAA

NOTES:
1. AIR CAPACITIES BASED ON MAXIMUM DIRTY FILTER PRESSURE DROP OF 0.5" SP. PROVIDE MINIMUM MERV 8 FILTRATION AT INLET TO EACH ENERGY RECOVERYWHEEL AND MERV 13 FILTRATION SUPPLY AIR.
2. PROVIDE HOT-GAS PASS AND MULTIPLE COMPRESSORS FOR PART LOAD PERFORMANCE OR VARIABLE SPEED COMPRESSORS
3. PROVIDE UNIT WITH HOT-GAS REHEAT.
4. AMBIENT DESIGN TEMPERATURES SHALL BE 100°F DB / 78°F WB IN THE SUMMER AND 0F IN THE WINTER.
5. UNIT SHALL HAVE ALUMINUM HEAT RECOVERY WHEEL.
6. PROVIDE UNIT SUPPLY AND EXHAUST FAN WITH VARIABLE FREQUENCY DRIVE. REFER TO DIVISION 26 VARIABLE FREQUENCY DRIVE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
7. UNIT HAS TWO CONNECTIONS:
   A. CIRCUIT #1: 24.4 MCA, 35 MOCP
   B. CIRCUIT #2" 58.2 MCA, 60 MOCP
8. PROVIDE DISCONNECT FOR ENERGY WHEEL AND FAN.
9. THE ELECTRICAL COMPONENTS SHALL HAVE AN OVERALL SHORT CIRCUIT WITHSTAND RATING OF AT LEAST 65,000 AMPERE INTERRUPTING CAPACITY AND BE UL LISTED AS SUCH.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

DESIGNATION		AREA SERVED	CFM	UNIT TYPE	REFRIGERANT TYPE	COOLING		ELECTRICAL DATA								BASIS OF DESIGN		REMARKS
INDOOR UNIT	OUTDOOR UNIT					TOTAL MBH	SENSIBLE MBH	INDOOR UNIT				OUTDOOR UNIT				MANUFACTURER	MODEL	
								VOLTAGE	PHASE	MCA	MOCP	VOLTAGE	PHASE	MCA	MOCP			
DSSAC-1	DSSCU-1	ELEC. ROOM	705	WALL	R410A	24.0	24.0	208	1	1.0	15	208	1	19.0	26	MITSUBISHI	TRUY	
DSSAC-2	DSSCU-2	ELEVATOR	425	DUCTED	R410A	12.0	12.0	208	1	1.0	15	208	1	11.0	28	MITSUBISHI	TPEFY	
DSSAC-3	DSSCU-3	IT ROOM	705	WALL	R410A	24.0	24.0	208	1	1.0	15	208	1	19.0	26	MITSUBISHI	TRUY	

NOTES:
1. PROVIDE DOUBLE SUCTION REFRIGERANT PIPING RISERS AND TRAPS AS RECOMMENDED BY MANUFACTURER. QUANTITY AND SIZES OF REFRIGERANT PIPING SHALL BE AS RECOMMENDED BY MANUFACTURER.
2. COOLING CAPACITIES INDICATED SHALL BE AT 75°F / 50% RH RETURN AIR AND 100°F OUTSIDE AIR.

AIR DEVICE SCHEDULE

DESIG	DUTY	SIZE (IN)	CFM RANGE	INLET SIZE	MAX SP (IN)	MAX NC	DESCRIPTION	BASIS OF DESIGN	
								MANUFACTURER	MODEL
A	SUPPLY	12 x 12 MODULE	0 - 120	6"Ø	0.10	20	6 x 6 NECK W/ FACTORY MOUNTED SQUARE - ROUND TRANSITION	TITUS	TDC
B1	SUPPLY	24 x 24 MODULE	0 - 120	6"Ø	0.10	20	18 x 18 NECK W/ FACTORY MOUNTED SQUARE - ROUND TRANSITION	TITUS	TDC
B2	SUPPLY	24 x 24 MODULE	211 - 325	10"Ø	0.10	25	18 x 18 NECK W/ FACTORY MOUNTED SQUARE - ROUND TRANSITION	TITUS	TDC
C1	SUPPLY	2 FT LONG	100 CFM / LF	4" DUCT HEIGHT	0.10	30	LINEAR BAR DIFFUSER, 1/4" BARS, 1/2" SPACING, 15° DEFLECTION	TITUS	CT-541
C2	SUPPLY	2 FT LONG	190 CFM / LF	6" DUCT HEIGHT	0.10	25	LINEAR BAR DIFFUSER, 1/8" BARS, 1/4" SPACING, 15° DEFLECTION	TITUS	CT-481
D	EXHAUST	10 x 10	0 - 295	10 x 10	0.06	20	FIXED LOUVER. 35° DEFLECTION 3/4" SPACING - REGISTER	TITUS	350 FL
E	EXHAUST	4 FT LONG	190 CFM / LF	6" DUCT HEIGHT	0.06	30	LINEAR BAR DIFFUSER, 1/8" BARS, 1/4" SPACING, 15° DEFLECTION	TITUS	CT-481
F	RETURN	14 x 14	441 - 610	14 x 14	0.06	20	FIXED LOUVER. 35° DEFLECTION 3/4" SPACING - REGISTER	TITUS	350 FL
G	SUPPLY	4 FT LONG	191 - 230	12"Ø	0.10	30	LINEAR SLOT DIFFUSER, 3/4" SLOT (2 SLOTS)	TITUS	ML-38 W/ MPI-38 INSULATED PLENUM

MISCELLANEOUS ELECTRIC HEATING SCHEDULE

DESIG	DESCRIPTION	MOUNTING	CFM	EAT °F	KW	BTUH	ELECTRICAL DATA				BASIS OF DESIGN	
							MCA	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL
EWH-1	FAN FORCED WALL HEATER	WALL	175	60	4.8	16,378	23.0	208	1	60	MARKEL	3320
EWH-2	FAN FORCED WALL HEATER	WALL	175	60	1.1	3,839	5.4	208	1	60	MARKEL	3320
EWH-3	FAN FORCED WALL HEATER	WALL	175	60	4.8	16,378	23.0	208	1	60	MARKEL	3320
EWH-4	FAN FORCED WALL HEATER	WALL	175	60	1.1	3,839	5.4	208	1	60	MARKEL	3320
EWH-5	FAN FORCED WALL HEATER	WALL	175	60	1.1	3,839	5.4	208	1	60	MARKEL	3320
EWH-6	FAN FORCED WALL HEATER	WALL	175	60	1.1	3,839	5.4	208	1	60	MARKEL	3320
EWH-7	FAN FORCED WALL HEATER	WALL	175	60	1.1	3,839	5.4	208	1	60	MARKEL	3320

NOTES:
1. PROVIDE WALL HEATERS WITH INTEGRAL DISCONNECT, INTEGRAL THERMOSTAT, THERMAL CUTOUTS.

AIR COOLED CONDENSING UNIT SCHEDULE

DESIG	COOLING (MBH)	HEATING (MBH)	EER (RATING)	ELECTRICAL					WEIGHT (LBS)	BASIS OF DESIGN	
				VOLTS	PHASE	HZ	MCA	MOCP		MANUFACTURER	MODEL
ACCU-1	70.7	0	9.4	208	3	60	34.0	45	350	TRANE	TTA
ACCU-2	265.6	240.5	0	208	3	60	60 / 60	100 / 100	680 + 680	TRANE	TURYE

NOTES:
1. CAPACITIES INDICATED ARE NET CAPACITIES AFTER PIPE LENGTH DE-RATINGS.
2. SHOULD A VRF MANUFACTURER OTHER THAN BASIS OF DESIGN BE PROVIDED, CONTRACTOR SHALL COORDINATE ELECTRICAL REVISIONS AS REQUIRED.
3. CONTRACTOR SHALL INDICATE TOTAL REFRIGERANT CHARGE FOR EACH ASSOCIATED SYSTEM.
4. ACCU-2 HAS TWO POWER CONNECTIONS.
5. ACCU-1 IS COOLING ONLY.

BRANCH CONTROLLER UNIT SCHEDULE

DESIG	COOLING BTUH (MAX)	ELECTRICAL				BASIS OF DESIGN	
		VOLTS	PHASE	MCA	HZ	MANUFACTURER	MODEL
BCC-1	54,000	208	1	1.2	60 Hz	MITSUBISHI	TCMBM1012
BCC-2	54,000	208	1	0.7	60 Hz	MITSUBISHI	TCMBS0104
BCC-3	54,000	208	1	0.7	60 Hz	MITSUBISHI	TCMBS0104

NOTES:
1. EACH SYSTEM SHALL HAVE A MINIMUM OF ONE SPARE PORT ON ONE OF THE HEAT RECOVERY UNITS ASSOCIATED WITH THAT SYSTEM CAPABLE OF ADDING AN 18 MBH (COOLING CAPACITY) TERMINAL UNIT.
2. REFER TO VRF PIPING SCHEMATICS FOR FURTHER INFORMATION REGARDING PORTS ON HEAT RECOVERY UNITS.
3. PROVIDE CONDENSATE DRAINS FROM HEAT RECOVERY UNITS AS REQUIRED BY MANUFACTURER. EXTEND CONDENSATE PIPING AND CONNECT NEAREST STORM WATER PIPING.
4. EACH PORT SHALL BE LABELED WITH TERMINAL UNIT NUMBER AND ASSOCIATED ROOM NUMBER IT SERVES.

VRF AIR CONDITIONING UNIT SCHEDULE

DESIG	UNIT TYPE	REFRIG	CFM	COOLING (BTUH)		HEATING (BTUH)	INDOOR UNIT				BASIS OF DESIGN	
				SENS	TOTAL		VOLTS	PH	MCA	MOCP	MANUFACTURER	MODEL
AC-1	CEILING CASSETTE	R-410A	310	6,915	12,970	6335	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-2	CEILING CASSETTE	R-410A	310	6,915	12,970	6335	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-3	CEILING CASSETTE	R-410A	310	6,915	12,970	6335	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-4	CEILING CASSETTE	R-410A	310	6,915	12,970	6335	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-5	CEILING CASSETTE	R-410A	530	9,290	11,320	10900	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-6	CEILING CASSETTE	R-410A	415	6,400	7,315	8555	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-7	CEILING CASSETTE	R-410A	405	7,560	9,415	8265	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-8	CEILING DUCTED	R-410A	455	10,830	11,910	9300	208	1	0.6	15	MITSUBISHI	TPEFY
AC-9	CEILING CASSETTE	R-410A	455	10,830	11,910	9300	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-10	FLOOR CONCEALED	R-410A	330	6,420	7,605	7010	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-11	FLOOR CONCEALED	R-410A	330	6,420	76,705	7010	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-12	FLOOR CONCEALED	R-410A	330	6,420	7,605	7010	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-13	FLOOR CONCEALED	R-410A	330	6,420	7,605	7010	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-14	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-15	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-16	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-17	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-18	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-19	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-20	FLOOR CONCEALED	R-410A	280	5,300	6,325	5930	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-21	FLOOR CONCEALED	R-410A	280	5,300	6,325	5930	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-22	FLOOR CONCEALED	R-410A	280	5,300	6,325	5930	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-23	CEILING CASSETTE	R-410A	160	4,185	5,705	3230	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-24	CEILING CASSETTE	R-410A	155	4,060	5,565	3115	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-25	CEILING CASSETTE	R-410A	210	5,210	6,830	4330	208	1	0.6	15	MITSUBISHI	TPLFY-P
AC-26	FLOOR CABINET	R-410A	330	6,420	7,605	7010	208	1	0.5	15	MITSUBISHI	TPFFY-CS
AC-27	FLOOR CABINET	R-410A	280	5,300	6,325	5930	208	1	0.5	15	MITSUBISHI	TPFFY-CS
AC-28	FLOOR CONCEALED	R-410A	330	8,030	9,830	8000	208	1	0.6	15	MITSUBISHI	TPFFY-RE
AC-29	WALL	R410A	295	10,200	12,000	13500	208	1	0.4	15	MITSUBISHI	TPKFY-P

NOTES:
1. PROVIDE REFRIGERANT PIPING (INCLUDING DOUBLE SUCTION RISES WITH TRAPS IF REQUIRED) AS RECOMMENDED BY MANUFACTURER. QUANTITY AND SIZES OF REFRIGERANT PIPING SHALL BE AS RECOMMENDED BY MANUFACTURER.
2. PROVIDE INTEGRAL CONDENSATE PUMP FOR ALL WALL MOUNTED, CEILING SUSPENDED AND CEILING MOUNTED CASSETTE UNITS.
3. UNITS SHALL UTILIZE R-410A REFRIGERANT.
4. EACH SYSTEM SHALL HAVE A MINIMUM OF ONE SPARE PORT ON ONE OF THE HEAT RECOVERY UNITS ASSOCIATED WITH THAT SYSTEM CAPABLE OF ADDING AN 18 MBH (COOLING CAPACITY) TERMINAL UNIT.
5. FULLY COORDINATED REFRIGERANT PIPING DRAWINGS SHALL BE INCLUDED WITH THE EQUIPMENT SUBMITTAL.
6. SHOULD A MANUFACTURER OTHER THAN THE BASIS OF DESIGN BE PROVIDED, CONTRACTOR SHALL COORDINATE ELECTRICAL REVISIONS AS REQUIRED AT NO COST TO THE OWNER.
7. COOLING CAPACITIES INDICATED SHALL BE AT 75°F / 50% RH RETURN AIR.
8. REFER TO VRF PIPING SCHEMATICS FOR FURTHER INFORMATION REGARDING PORTS ON HEAT RECOVERY UNITS.
9. PROVIDE CONDENSATE LEAK DETECTION IN ACCORDANCE WITH UL 508 AND ALL APPLICABLE CODES FOR ALL VRF TERMINAL UNITS. LEAK DETECTION SHALL ALARM AT THE BUILDING AUTOMATION SYSTEM (BAS) AND SHALL DE-ENERGIZE THE FAN AND/OR SHUT OFF REFRIGERANT FLOW TO THE COIL.
10. PROVIDE REFRIGERANT LEAK DETECTION AND ALARM AT VRF CONTROL PANEL AND EMCS.
11. CAPACITIES INDICATED ARE NET CAPACITIES AFTER PIPE LENGTH DE-RATINGS HAVE BEEN ACCOUNTED FOR.
12. PROVIDE CONDENSATE DRAINS FROM HEAT RECOVERY UNITS AS REQUIRED BY MANUFACTURER. EXTEND CONDENSATE PIPING AND CONNECT NEAREST STORM WATER PIPING.
13. ALL DUCTED UNITS SHALL BE PROVIDED WITH FILTER RACK AT RETURN INLET.
14. VRF MANUFACTURER SHALL PROVIDE WALL MOUNTED THERMOSTATS CAPABLE OF LIMITING USER ADJUSTMENT TO 1 DEGREE IN EITHER DIRECTION. FULL THERMOSTAT CONTROL SHALL BE PROVIDED THRU EMCS.

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MECHANICAL SCHEDULES

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PLUMBING GENERAL NOTES

1. MAKE ALL WATER CONNECTIONS TO FIXTURES ABOVE FLOOR.
2. PROVIDE VACUUM BREAKERS ON ALL HOSE CONNECTION TYPE FITTING HOSE BIBBS, WALL HYDRANTS, ETC.
3. LIMIT SANITARY AND WASTE PIPING DEAD END TO 12 INCHES FROM MAIN OR MAIN BRANCH.
4. PROVIDE A MINIMUM OF 24 INCHES CLEARANCE FOR RODDING OF CLEANOUTS.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER DISCIPLINES PRIOR TO CONSTRUCTION.
6. ACCESS SHALL BE PROVIDED FOR ALL CONCEALED VALVES, CLEANOUTS ETC. LOCATED AT OR IN CEILINGS, WALLS OR FLOORS.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, AND OTHER EQUIPMENT.
8. ALL FLOOR DRAINS DRAINS CONNECTED TO THE SANITARY SHALL BE PROVIDED WITH A PRIMED TRAP UNLESS OTHERWISE NOTED.
9. ALL SPECIFICATIONS AND DRAWINGS (I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL) ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
10. COORDINATE ALL PIPING TO BE INSTALLED WITH OTHER TRADES (I.E., MECHANICAL, FIRE PROTECTION AND ELECTRICAL) TO ASSURE THAT ALL PIPING SYSTEMS ARE INSTALLED ABOVE FINISHED CEILING OR IN A CONCEALED SPACE. ALL CEILING HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS AND MINIMUM CLEARANCES REQUIRED BY LOCAL CODES SHALL BE MAINTAINED THROUGHOUT THE BUILDING.
11. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
12. PROVIDE ONE (1) TRAP PRIMER VALVE FOR EACH FLOOR DRAIN WITHOUT A CONSTANT SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. PRIMER VALVE SHALL BE LOCATED IN AN ACCESSIBLE AREA AND CONNECTED TO THE NEAREST 3/4" COLD WATER LINE SERVING A FIXTURE.
13. ALL PIPING, SYSTEMS, VALVES AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED.
14. COLD WATER SUPPLY MAINS AND BRANCHES SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS.
15. ALL PIPING VALVES, AND ACCESSORIES SERVING EQUIPMENT SHALL BE INSTALLED TO ALLOW SERVICING OR REMOVAL WITHOUT DISCONNECTING ALL PIPING ACCESSORIES.
16. ALL VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED".
17. EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED ON ALL PIPING SYSTEMS WHICH CROSS BUILDING EXPANSION JOINTS AND ALL HORIZONTAL AND VERTICAL PIPING LENGTHS EXCEEDING 100 FEET OR EACH PORTION THEREOF.
18. ALL ROUGH-IN AND FINAL CONNECTION FOR EQUIPMENT SPECIFIED BY OTHERS SHALL BE PROVIDED.
19. ALL EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED.
20. WATER SERVICES FOR MOVABLE APPLIANCES SHALL BE CONNECTED WITH FLEXIBLE TUBING AND QUICK DISCONNECT COUPLINGS PROVIDED BY EQUIPMENT SUPPLIER.
21. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE INSTALLED AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6" ABOVE FLOOR.
22. VERIFY EQUIPMENT LOCATIONS WITH OTHER CONSULTANTS OR SUPPLIERS BEFORE PROCEEDING WITH ANY ROUGH-IN.
23. ALL PIPING SHALL BE INSTALLED ABOVE CEILING OR IN A CONCEALED SPACE UNLESS NOTED OR INDICATED OTHERWISE.
24. THOUGH SOME PIPING OFFSETS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS THAT ARE REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE SYSTEM WITHOUT INTERFERENCES.
25. REMOVE ALL EXISTING PIPING ABOVE CEILINGS OR EXPOSED NOT TO REMAIN IN USE. DISCONNECT ABANDONED PIPING IN WALLS OR BELOW SLAB FROM DISTRIBUTION SYSTEM.
26. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING INVERTS, LOCATIONS AND SIZES OF PIPES, DUCTWORK, LIGHTING, AND STRUCTURAL MEMBERS PRIOR TO CONSTRUCTION.
27. ALL PLUMBING VENTS SHALL BE A MINIMUM OF TEN FEET (10') FROM OUTSIDE AIR INTAKES.
28. CONTRACTOR SHALL REMOVE, REINSTALL AND/OR RELOCATE ANY EXISTING CONDUIT, PIPING SYSTEMS, DUCTWORK, TELECOMMUNICATIONS WIRING, HANGERS/SUPPORTS, ETC. AS REQUIRED TO ACCOMPLISH THE PLUMBING WORK INDICATED.
29. WHERE PIPING IS EXPOSED BENEATH THE LAVATORY, THE CONTRACTOR SHALL PROVIDE MANUFACTURED PREMOLDED INSULATED PIPE FOR EXPOSED HOT WATER, COLD WATER AND SANITARY DRAIN PIPING; LAVGUARD OR EQUIVALENT.

SPRINKLER GENERAL NOTES

1. SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER COVERAGE AND DETERMINE THE HAZARD CLASSIFICATION IN ALL AREAS UNDER THIS CONTRACT. CONTRACTOR SHALL LOCATE SPRINKLER HEADS AND SIZE PIPING IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13, AND AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL HYDRAULICALLY DESIGN AND INSTALL THE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13. SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, AND THE AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR SHALL PROVIDE AN INDEPENDENT FLOW TEST AS REQUIRED TO CONFIRM FLOW AND PRESSURE AVAILABILITY.
4. CONTRACT DRAWINGS FOR SPRINKLER WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT. CONTRACTOR SHOULD VISIT SITE TO DETERMINE EXACT QUANTITIES AND SCOPE OF WORK.
5. PRIOR TO THE INSTALLATION OF THE SPRINKLER SYSTEM, THE SPRINKLER CONTRACTOR SHALL COORDINATE PIPING, VALVES, SPRINKLER HEADS, ETC. WITH ALL NEW AND EXISTING DUCTWORK, PIPING, CABLE TRAYS, STRUCTURAL MEMBERS AND OTHER DISCIPLINES.
6. ALL PENETRATIONS IN EXISTING OR NEW FIRE RATED WALLS SHALL BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH A MATERIAL OF EQUAL FIRE RESISTANCE.
7. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE SPRINKLER SYSTEMS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
8. ALL CEILINGS, WALLS, FLOORS AND FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND PAINTED TO MATCH EXISTING CONDITIONS AND FIRE RATING.
9. ACTUAL LOCATION OF EXISTING CEILING MOUNTED LIGHTS, RETURN AND SUPPLY DUCTS, AIR GRILLES AND DIFFUSERS, SPRINKLER HEADS, PIPING AND STRUCTURAL SUPPORTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
10. ALL SPRINKLER PIPING INSTALLED IN FINISHED AREAS SHALL BE CONCEALED.
11. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS, HE SHALL NOTIFY THE ENGINEER OF SUCH CONDITIONS PRIOR TO THE BID DATE OTHERWISE, IT WILL BE UNDERSTOOD THAT THE DRAWINGS AND SPECIFICATIONS ARE CLEAR AS TO WHAT IS INTENDED AND SHALL BE AS INTERPRETED BY THE ENGINEER.
12. ALL SPRINKLER HEADS INSTALLED BELOW 8'-0" ABOVE FINISHED FLOOR SHALL BE PROVIDED WITH A SPRINKLER HEAD GUARD.
13. THE OCCUPIED PORTION OF THE FLOOR SHALL REMAIN IN SERVICE UNTIL NEW WORK IS TESTED AND ACCEPTED. INTERRUPTION OF PROTECTION FOR THE PURPOSES OF MAKING TAPS OF EXISTING PIPING OR MAKING INTERCONNECTIONS BETWEEN NEW AND EXISTING WORK SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING WORK.
15. SPRINKLER CONTRACTOR SHALL CENTER SPRINKLER HEADS IN CEILING TILES.
16. THOUGH SOME PIPING OFFSETS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS THAT ARE REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE FIRE PROTECTION AND SPRINKLER WORK WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE SYSTEM WITHOUT INTERFERENCES.
17. PROVIDE NFPA APPROVED SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO POTENTIAL DAMAGE. SPRINKLER HEAD GUARDS SHALL BE PROVIDED IN THE FOLLOWING AREAS AND OTHER SIMILAR TYPE SPACES SUBJECT TO POTENTIAL DAMAGE: MULTI-PURPOSE ROOMS, FITNESS AREAS, ACTIVITY ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.
18. CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS TO DETERMINE FINAL SIZING OF SPRINKLER MAINS AND BRANCH LINES. OVERSIZED MAINS AND BRANCH LINES MAY BE NECESSARY TO OVERCOME FRICTION PRESSURE LOSSES.

PLUMBING LEGEND

COLD WATER		SOLENOID VALVE	
HOT WATER		Y-STRAINER W/HOSE-END VALVE	
HOT WATER RECIRCULATION			
CONDENSATE DRAIN LINE	CD	FLOW SWITCH	
SANITARY		FLOOR CLEANOUT	CO
STORM WATER	SW	WALL CLEANOUT	CO
STORM WATER OVERFLOW	SWOF	HOSE-END VALVE	
VENT			
SPRINKLER	SP	PRESSURE GAUGE	
NATURAL GAS	G	TEMPERATURE/PRESSURE TEST PORT	
BALL VALVE			
BALANCING VALVE W/ FLOW METER FITTING (VENTURI TYPE)		THERMOMETER	
BUTTERFLY VALVE		WALL HYDRANT	
CHECK VALVE		WATER HAMMER ARRESTOR	
GATE VALVE		FLANGED CONNECTION	
GAS COCK		PIPING CAP	
OS & Y VALVE		PIPE CONNECTION BOTTOM	
PRESSURE REGULATOR		PIPE CONNECTION TOP	
RELIEF VALVE		PIPING ELBOW DOWN	
FLOOR DRAIN	FD	PIPING ELBOW UP	
FLOOR SINK	FS	UNION	
OVERFLOW ROOF DRAIN	OFD	CONNECT TO EXISTING	
ROOF DRAIN	RD	LIMIT OF DEMOLITION	

PLUMBING ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
AIR HANDLING UNIT	AHU
CONDENSATE DRAIN LINE	CD
COLD WATER (DOMESTIC)	CW
DESIGNATION	DESIG
EXISTING TO REMAIN	ETR
FEET	FT
HORSEPOWER	HP
HOT WATER (DOMESTIC)	HW
HOT WATER RECIRCULATE	HWR
KILOWATT(S)	KW
POUNDS	LBS
MAXIMUM	MAX
THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH
NATURAL GAS	G
NORMALLY CLOSED	NC
NORMALLY OPEN	NO
REMOVE EXISTING	RX
REVOLUTIONS PER MINUTE	RPM
SANITARY	SAN
SPRINKLER	SP
STORM WATER	SW
VENT THRU ROOF	VTR

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PLUMBING LEGEND, SYMBOLS & ABBREVIATIONS

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ARL: G:\22148.01\Drawings\Acad\P\P0.01 - PLUMBING LEGEND, SYMBOLS AND ABBREVIATIONS

PLUMBING EQUIPMENT SCHEDULE

DESIG	SERVICE	DESCRIPTION	BASIS OF DESIGN
DHWH-1	DOMESTIC WATER HEATER	ELECTRIC WATER HEATER, RATED STORAGE VOLUME: 40 GALLONS; RECOVERY @ 100°F RISE: 18 GPH; 4.5 KW ELEMENTS (TOTAL 9 KW), SIMULTANEOUS 2-ELEMENT OPERATION; 208 V, 3 PH; ASME RATED	A. O. SMITH MODEL No. DEL-40
DHWR-1	DOMESTIC HOT WATER RECIRCULATING PUMP (110°F LOOP)	ELECTRONICALLY COMMUTATED PERMANENT MAGNET SPHERICAL MOTOR, NSF 61 STAINLESS STEEL BODY. 4-60 WATTS VARIABLE POWER CONSUMPTION, AUTOMATIC OVERLOAD PROTECTION, 1/12 HP, 115 V / 1 PH / 60 HZ.	BELL & GOSSETT MODEL No. A-431 ECOCIRC 19-16
ET-1	DOMESTIC HOT WATER EXPANSION TANK	BLADDER TYPE THERMAL EXPANSION TANK WITH FACTORY PAINTED STEEL SHELL AND BUTYL DIAPHRAGM. 4.8 GALLON, 2.9 GALLON ACCEPTANCE VOLUME.	WESSEL MODEL NO.T 12
DWMV-1	DOMESTIC WATER MASTER MIXING VALVE	MASTER DOMESTIC HOT WATER THERMOSTATIC MIXING VALVE, ASSE 1017 APPROVED WITH NICKEL PLATED ELEMENTS, RATED FOR 54 GPM MAXIMUM AND 1 GPM MINIMUM WITH A MAXIMUM PRESSURE LOSS OF 20 PSI.	LAWLER MODEL No. 802-GPM
BFP-1	BACKFLOW PREVENTER (DOMESTIC WATER)	ASSE 1013 REDUCED PRESSURE ZONE BACKFLOW PREVENTER NSF 61/372 APPROVED	AMES MODEL NO. 4000SS
BFP-2	BACKFLOW PREVENTER (FIRE PROTECTION)	ASSE 1048 DOUBLE CHECK DETECTOR VALVE ASSEMBLY	AMES MODEL NO. 3000SS
ATPS-1	AUTOMATIC TRAP PRIMING STATION	ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR ADJUSTABLE TIMER, MANUAL OVER RIDE SWITCH/TEST BUTTON, 120V OR 220 SOLENOID VALVE, 3/WIRE SINGLE POINT CONNECTION, 3/4" FNPT CONNECTION, CALIBRATED MANIFOLD FOR EQUAL DISTRIBUTION, 5/8" OR 1/2" OUTLET COMPRESSION PR 1/2" PEX AND PROPEX FITTINGS FOUR OPENING MANIFOLD TO THIRTY OPENING MANIFOLD.	PRECISION PLUMBING PRODUCTS PT SERIES
ESP-1	ELEVATOR PIT SUMP PUMP	ASME A17.1 RATED SUBMERSABLE ELEVATOR PIT SUMP PUMP WITH FLOAT SWITCH CONTROLS AND OIL-MINDER PROBE, WITH ALARM, LIGHT AND REMOTE MONITORING CIRCUIT. PUMP SHALL BE 1/2 HP, 3450 RPM AND RATED AT 50 GPM AND 33 FT. TDH, 208V/1PH/60 HZ, 4.4 AMPS	STANCOR OIL MINDER MODEL No. SE-50
SP-1	SUMP PUMP	SUMP PUMP, CAST IRON, CONTINUOUS DUTY, THERMALLY PROTECTED - SPLIT CAPACITOR MOTOR, 1-1/2" DISCHARGE, 3/8" SOLIDS HANDLING, THERMOPLASTIC IMPELLER, PUMP SHALL BE 1/4 HP, 25 GPM @ 15' FT HD, 120 V/ 1 PH/ 60 HZ, 3 YEAR WARRANTY.	SUPERIOR MODEL NO. 92337

PLUMBING DRAIN SCHEDULE

ABBR	FIXTURE	AREA	BASIS OF DESIGN		NOTES
			MANUFACTURER	MODEL	
FD	FLOOR DRAIN	TOILET ROOMS MECHANICAL ROOMS	WATTS WATTS	FD-100-A FD-340	1 & 2 1, 2 & 3

NOTE:
1. 1/2" TRAP PRIMING LINE
2. ADJUSTABLE NICKEL BRONZE STRAINER
3. SEDIMENT BUCKET

PLUMBING FIXTURE SCHEDULE

DESIG	DESCRIPTION	CW	HW	SAN	VENT	TRAP	FLOW	MOUNTING ARRANGEMENT	NOTES
WC-1	WATER CLOSET	1 1/4"	-	4"	-	'INT'	1.28 GPF	FLOOR	1, 3, 4 & 5
WC-2	WATER CLOSET	1 1/4"	-	4"	-	'INT'	1.28 GPF	FLOOR	1, 3, 4 & 5
L-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	'P'	0.35 GPM	UNDERMOUNT	1, 2 & 5
EWC-1	ELECTRIC WATER COOLER, DUAL LEVEL W/ BOTTLE FILLING STATION	1/2"	-	1 1/2"	1 1/2"	'P'	-	WALL	1 & 4
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"	-	5 GPM	FLOOR	4 & 5
WH	NON-FREEZE WALL HYDRANT	3/4"	-	-	-	-	5 GPM	WALL	4
S-1	PANTRY SINK	1/2"	1/2"	2"	1 1/2"	'P'	1.0 GPM	COUNTER TOP	1, 2, 4 & 5

NOTES:
1. ADA ACCESSIBLE.
2. PROVIDE ASSE 1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, LAWLER 570 OR EQUIVALENT.
3. PROVIDE INDIRECT WASTE PIPE FROM FIXTURE/EQUIPMENT TO FUNNEL FLOOR DRAIN/FLOOR SINK.
4. REFER TO SPEC 221116.
5. FIXTURE SHALL BE WATER SENSE LABELLED.

PLUMBING PIPE INSULATION SCHEDULE

SYSTEM	PIPE SIZE	TYPE	THICKNESS	MAX K-VALUE @ 75°F	JACKET	NOTES
DOMESTIC COLD WATER	ALL SIZES	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2 & 3
DOMESTIC HOT WATER AND RECIRCULATING	1" AND SMALLER	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2 & 3
	1 1/4" AND 1 1/2"		1 1/2"			
	2" AND LARGER		2"			
HORIZONTAL SANITARY AND VENTS WITHIN 6FT OF ROOF	ALL SIZES	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2 & 3
HORIZONTAL STORM WATER AND CONDENSATE	ALL SIZES	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2 & 3

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS AS WELL AS DETAILED PRODUCT AND INSTALLATION REQUIREMENTS. WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. ASJ (ALL SERVICE JACKET) SHALL INCLUDE VAPOR RETARDER.
3. FOR PIPING INSTALLED BELOW 8'-0" ABOVE FINISHED FLOOR, PROVIDE PVC JACKET.

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PLUMBING SCHEDULES

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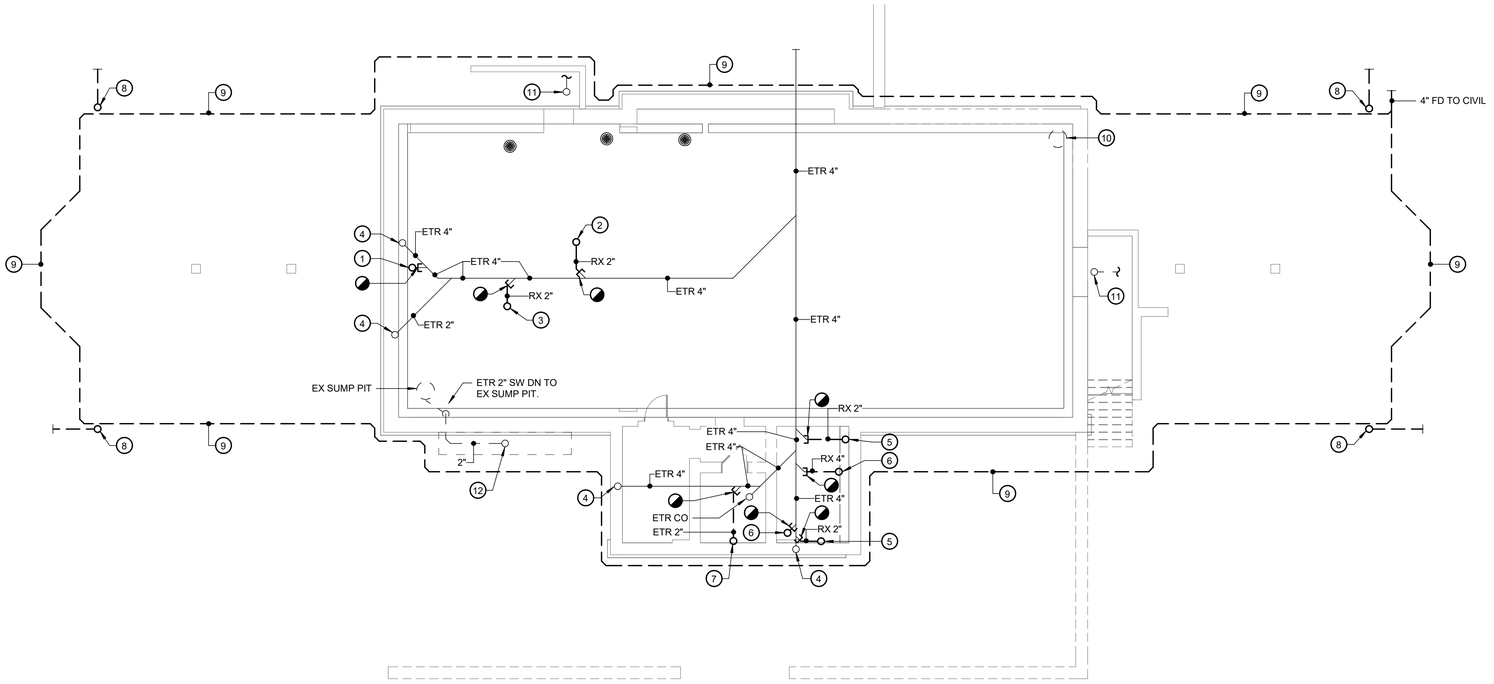

1 FOUNDATION PLAN - PLUMBING - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.
3. CONTRACTOR TO VERIFY CONDITIONS OF ALL EXISTING FLOOR DRAINS AND TRENCH DRAINS. CONTRACTOR SHALL SCOPE & SNAKE EXISTING PIPING TO INDICATE EXISTING CONDITIONS. REMOVE EXISTING GRATE/S AS REQUIRED.

DRAWING NOTES:

1. REMOVE EXISTING 4" SANITARY UP TO WATER CLOSET & CAP AT MAIN.
2. REMOVE EXISTING 2" SANITARY UP TO MOP SINK & CAP AT MAIN.
3. REMOVE EXISTING 2" SAINTARY UP TO SINK & CAP AT MAIN.
4. EXISTING 2" VENT UP TO REMAIN.
5. REMOVE EXISTING 2" SANITARY UP TO LAVATORY. REMOVE EXISTING 2" SANITARY BACK TO MAIN AND CAP.
6. REMOVE EXISTING 4" SANITARY UP TO WATER CLOSET. REMOVE EXISTING 4" SANITARY BACK TO MAIN AND CAP.
7. REMOVE EXISTING 2" SANITARY UP TO PANTRY SINK. REMOVE EXISTING 2" SANITARY BACK TO MAIN AND CAP.
8. REMOVE EXISTING 4" DOWNSPOUT.
9. REMOVE EXISTING 4" FOUNDATION DRAIN.
10. REMOVE EXISTING SUMP PIT AND ALL ASSOCIATED APPURTENANCES.
11. EXISTING 3" SW UP EXISTING AREA DRAIN TO REMAIN.
12. EXISTING 2" SW UP TO 2" AREA DRAIN IN WINDOW WELL.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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FOUNDATION PLAN PLUMBING DEMOLITION

P1.01

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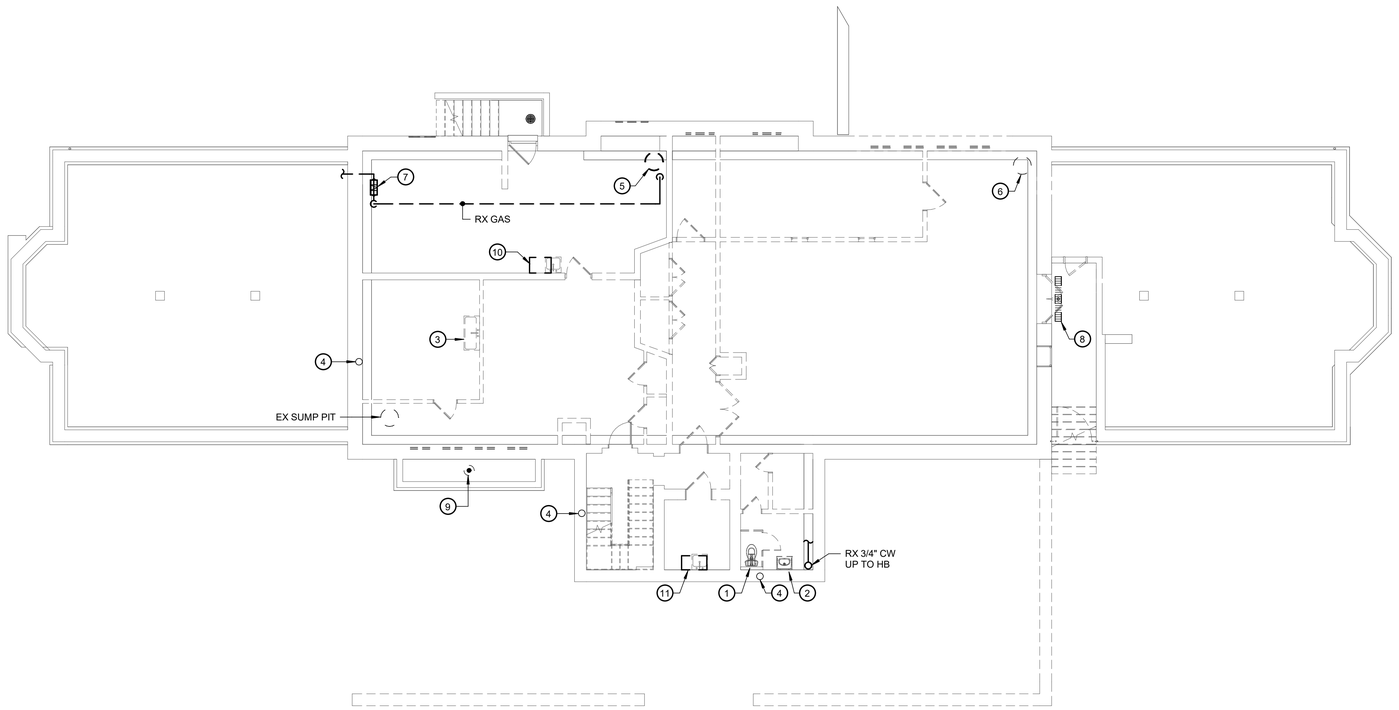

1 LOWER LEVEL PLAN - PLUMBING - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.
3. REMOVE EXISTING DOMESTIC COLD WATER, HOT WATER AND HOT WATER RECIRCULATING PIPES, SUPPORTS/HANGERS, VALVES AND ALL ASSOCIATED APPURTENANCES UNLESS NOTED OTHERWISE.

DRAWING NOTES:

1. REMOVE EXISTING WATER CLOSET, SUPPORTS/HANGERS, FLUSH VALVE AND ALL ASSOCIATED APPURTENANCES, REMOVE COLD WATER, SANITARY, VENT PIPING.
2. REMOVE EXISTING LAVATORY, SUPPORTS/HANGERS, FAUCET, SUPPLIES, STOPS, TAILPIECE, TRAP, TRAP ARM AND ALL ASSOCIATED APPURTENANCES, REMOVE HOT WATER, COLD WATER, SANITARY, VENT.
3. REMOVE EXISTING SINK, SUPPORTS/HANGERS, FAUCET, SUPPLIES, STOPS AND ALL ASSOCIATED APPURTENANCES, REMOVE HOT WATER, COLD WATER, SANITARY, VENT.
4. EXISTING 2" VENT DOWN AND EXISTING 2" VENT UP TO EXISTING 4" VTR TO REMAIN.
5. REMOVE EXISTING GAS WATER HEATER. REMOVE EXISTING FLUE AND ALL ASSOCIATED PIPING.
6. REMOVE EXISTING SUMP PIT AND ALL ASSOCIATED APPURTENANCES.
7. REMOVE EXISTING GAS METER, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. REMOVE EXISTING GAS PIPING AS REQUIRED FROM GAS METER AND CAP.
8. EXISTING 4" TRENCH DRAIN TO REMAIN.
9. EXISTING 2" AREA DRAIN TO REMAIN.
10. REMOVE EXISTING MOP SINK, SUPPORTS/HANGERS, FAUCET, SUPPLIES, STOPS, TAILPIECE, TRAP, TRAP ARM AND ALL ASSOCIATED APPURTENANCES, REMOVE HOT WATER, COLD WATER, SANITARY, VENT.
11. REMOVE EXISTING PANTRY SINK, SUPPORTS/HANGERS, FAUCET, SUPPLIES, STOPS AND ALL ASSOCIATED APPURTENANCES, REMOVE HOT WATER, COLD WATER, SANITARY, VENT.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN PLUMBING DEMOLITION

P1.02

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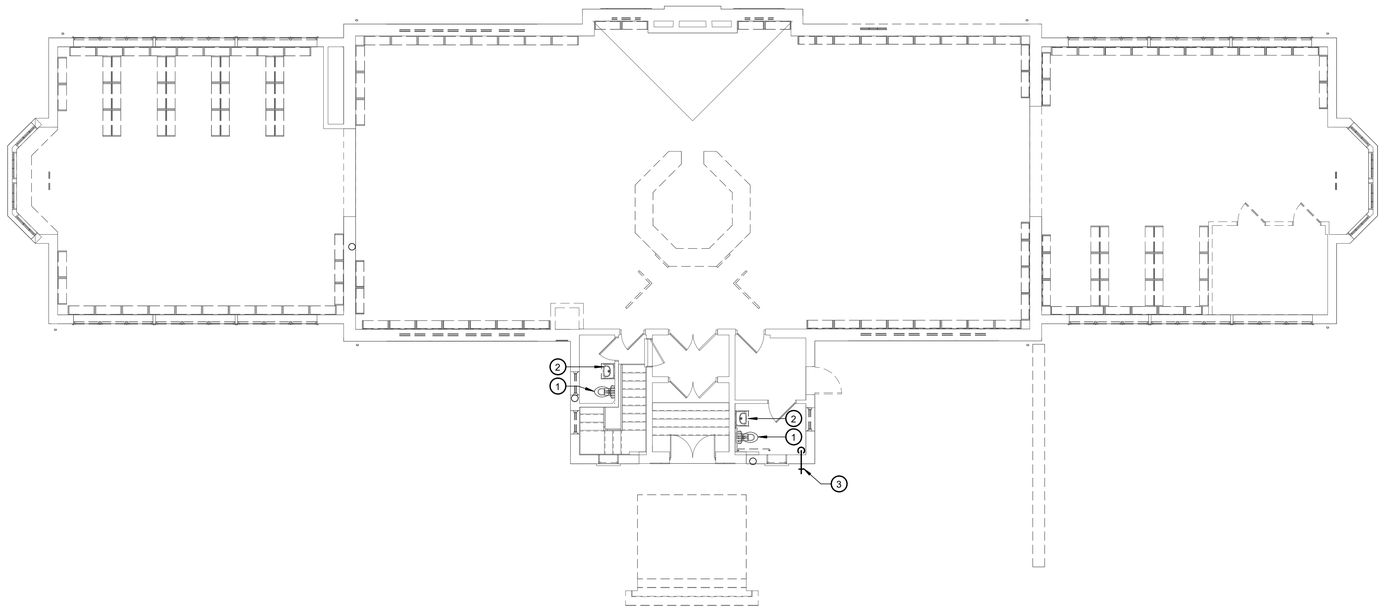

1 FIRST FLOOR PLAN - PLUMBING - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P001 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DRAWING NOTES:

1. REMOVE EXISTING WATER CLOSET, SUPPORTS/HANGERS, FLUSH VALVE AND ALL ASSOCIATED APPURTENANCES, REMOVE COLD WATER, SANITARY, VENT PIPING.
2. REMOVE EXISTING LAVATORY, SUPPORTS/HANGERS, FAUCET, SUPPLIES, STOPS, TAILPIECE, TRAP, TRAP ARM AND ALL ASSOCIATED APPURTENANCES, REMOVE HOT WATER, COLD WATER, SANITARY, VENT.
3. REMOVE EXISTING HOSE BIB AND ALL ASSOCIATED APPURTENANCES. REMOVE EXISTING COLD WATER BACK TO MAIN.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN PLUMBING DEMOLITION

P1.03

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22057

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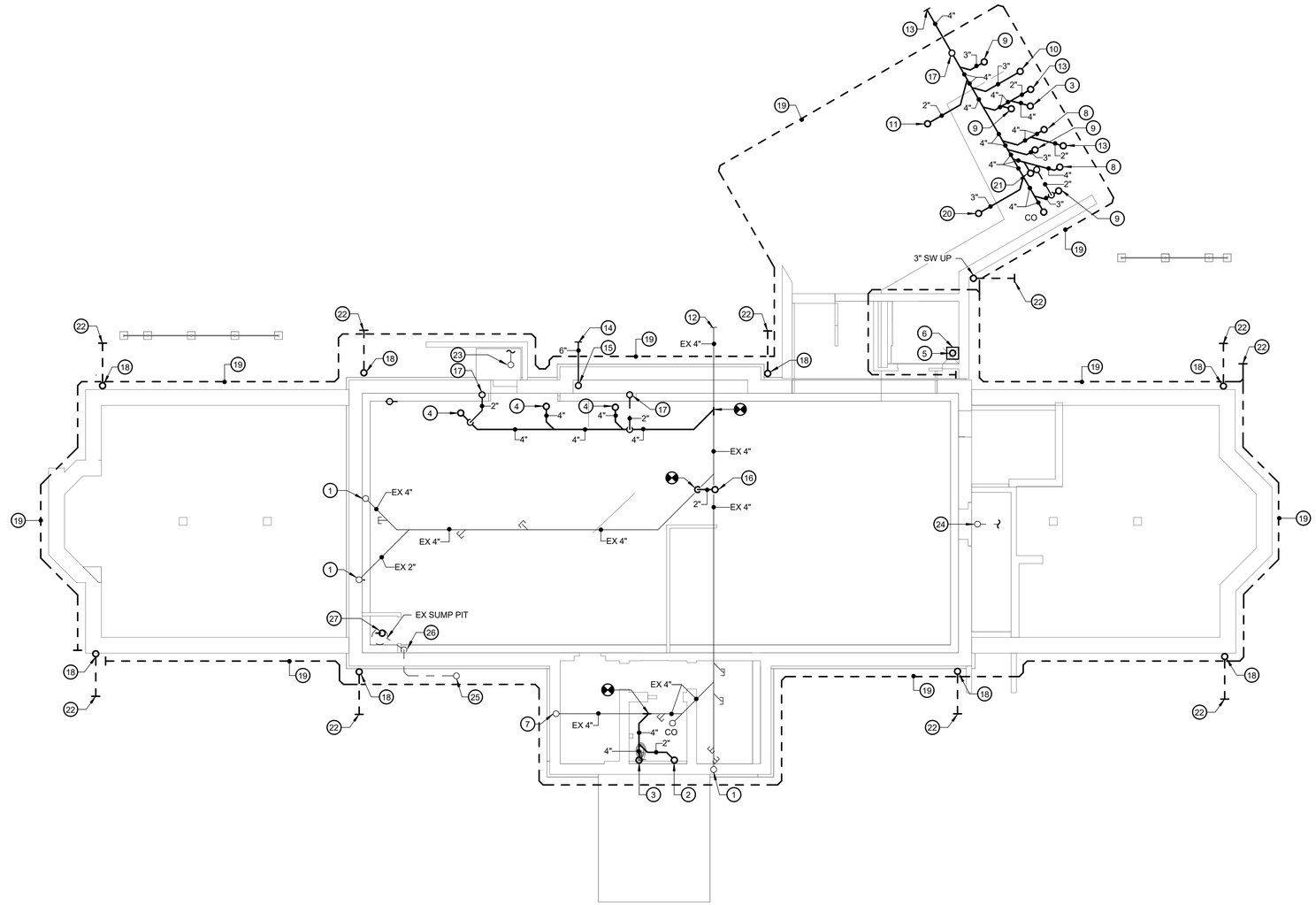

1 FOUNDATION PLAN - SANITARY - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.

DRAWING NOTES:

1. EXISTING 2" VENT UP TO REMAIN.
2. 2" SANITARY UP TO L-1.
3. 4" SANITARY UP TO WC-1.
4. 4" FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
5. 2" PUMP DISCHARGE UP AND 2" PUMP DISCHARGE DOWN TO ESP-1.
6. ELEVATOR SUMP PUMP ESP-1. REFER TO SCHEDULE.
7. EXISTING 4" SANITARY UP & DOWN.
8. 4" SANITARY UP TO WC-2.
9. 3" SANITARY UP TO FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
10. 3" SANITARY UP TO MB-1.
11. 2" SANITARY UP TO EWC-1.
12. EXISTING 4" SANITARY OUTFALL, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
13. 4" SANITARY OUTFALL #1; INVERT ELEVATION -2.31'±, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
14. 6" COMBINATION FIRE PROTECTION AND DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
15. 6" COMBINATION FIRE PROTECTION AND DOMESTIC WATER SERVICE UP.
16. 2" SANITARY UP TO S-1.
17. 2" VENT UP.
18. 4" UP TO DOWNSPOUT BOOT.
19. 4" FOUNDATION DRAIN. COORDINATE WITH CIVIL & STRUCTURAL DRAWINGS FOR FINAL LOCATION.
20. 3" SANITARY UP TO WC-3.
21. 2" VENT UP & 2" SANITARY UP TO L-1.
22. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
23. EXISTING 3" SW UP TO EXISTING 3" AREA DRAIN.
24. EXISTING 4" SW UP TO EXISTING TRENCH DRAIN.
25. EXISTING 2" SW UP TO EXISTING 2" AREA DRAIN IN WINDOW WELL.
26. EXISTING 2" SW DN TO EX SUMP PIT.
27. 2" PUMP DISCHARGE UP & 2" PUMP DISCHARGE DOWN TO EX SUMP PIT.

SCALE: 1/8" = 1'-0"

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FOUNDATION PLAN SANITARY NEW WORK

P2.01

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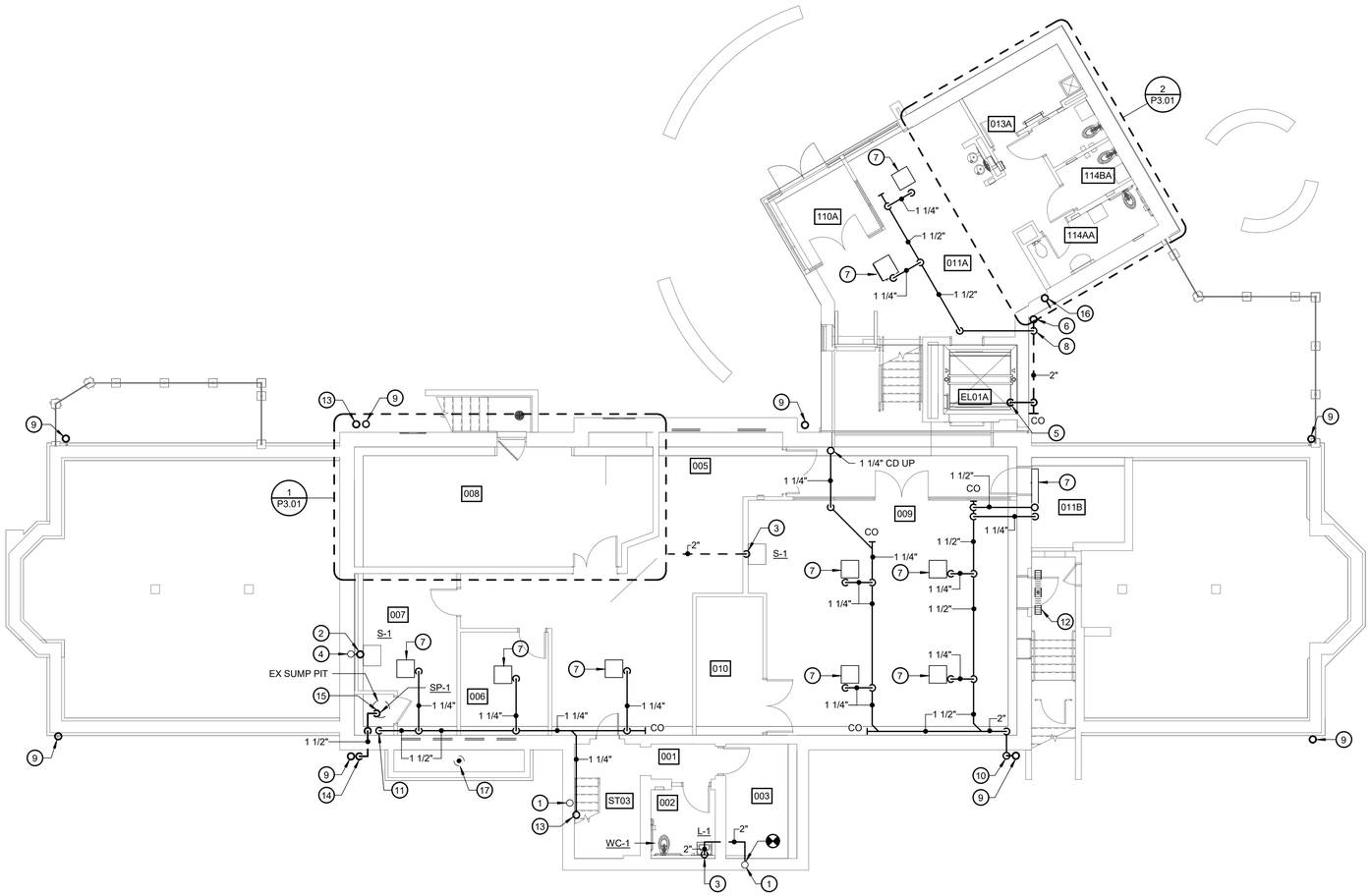

1 LOWER LEVEL PLAN - SANITARY - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.

DRAWING NOTES:

1. EXISTING 2" VENT UP & DOWN.
2. 2" SANITARY UP TO S-1.
3. 2" VENT DOWN TO L-1, 2" SANITARY.
4. EXISTING 2" VENT UP & DOWN.
5. 2" PD DOWN TO ESP-1.
6. 3" SW UP & DOWN.
7. MECHANICAL UNIT UNDER ANOTHER DIVISION, UNDER THIS DIVISION PROVIDE CONDENSATE PIPING AS REQUIRED FROM MECHANICAL UNIT.
8. 1 1/2" CD DOWN AND DISCHARGE OVER SPLASHBLOCK.
9. 4" SW BOOT. REFER TO DETAIL.
10. 2" CD DOWN. CONNECT 2" CD DOWN TO DOWNSPOUT WITH BACKWATER VALVE PRIOR TO GOING BELOW GRADE.
11. 2" CD DOWN AND DISCHARGE TO EXISTING SUMP PIT.
12. EXISTING 4" TRENCH DRAIN.
13. 1 1/4" CD UP TO MECHANICAL UNIT. MECHANICAL UNIT UNDER ANOTHER DIVISION.
14. 1 1/2" PD DOWN AND DISCHARGE INTO STORM WATER BOOT. PROVIDE BACKWATER VALVE.
15. 1 1/2" PD DOWN TO SP-1.
16. 3" OFSW UP & 3" OFSW DOWN TO DOWNSPOUT NOZZLE, ZURN Z-199 SS.
17. EXISTING 2" AREA DRAIN IN WINDOW WELL.

LOWER LEVEL RM LIST

001	CORRIDOR
002	RR
003	ELEC / IT
005	STAFF WORKROOM
006	OFFICE
007	BREAKROOM
008	MECHANICAL
009	MEETING ROOM
010	STORAGE
011A	LOBBY
011B	ELECTRICAL
012A	LOWER LOBBY
012D	RESTROOM
013A	JAN CLO
013B	JAN CLO
110A	VESTIBULE
114AA	FAMILY RESTROOM
114AB	FAMILY RESTROOM
114BA	RR
114CA	RR
115	EXTERIOR
EL01A	ELEV
ST02	STAIR
ST03	STAIR

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN SANITARY NEW WORK

P2.02

SHEET 145 OF 179

22057

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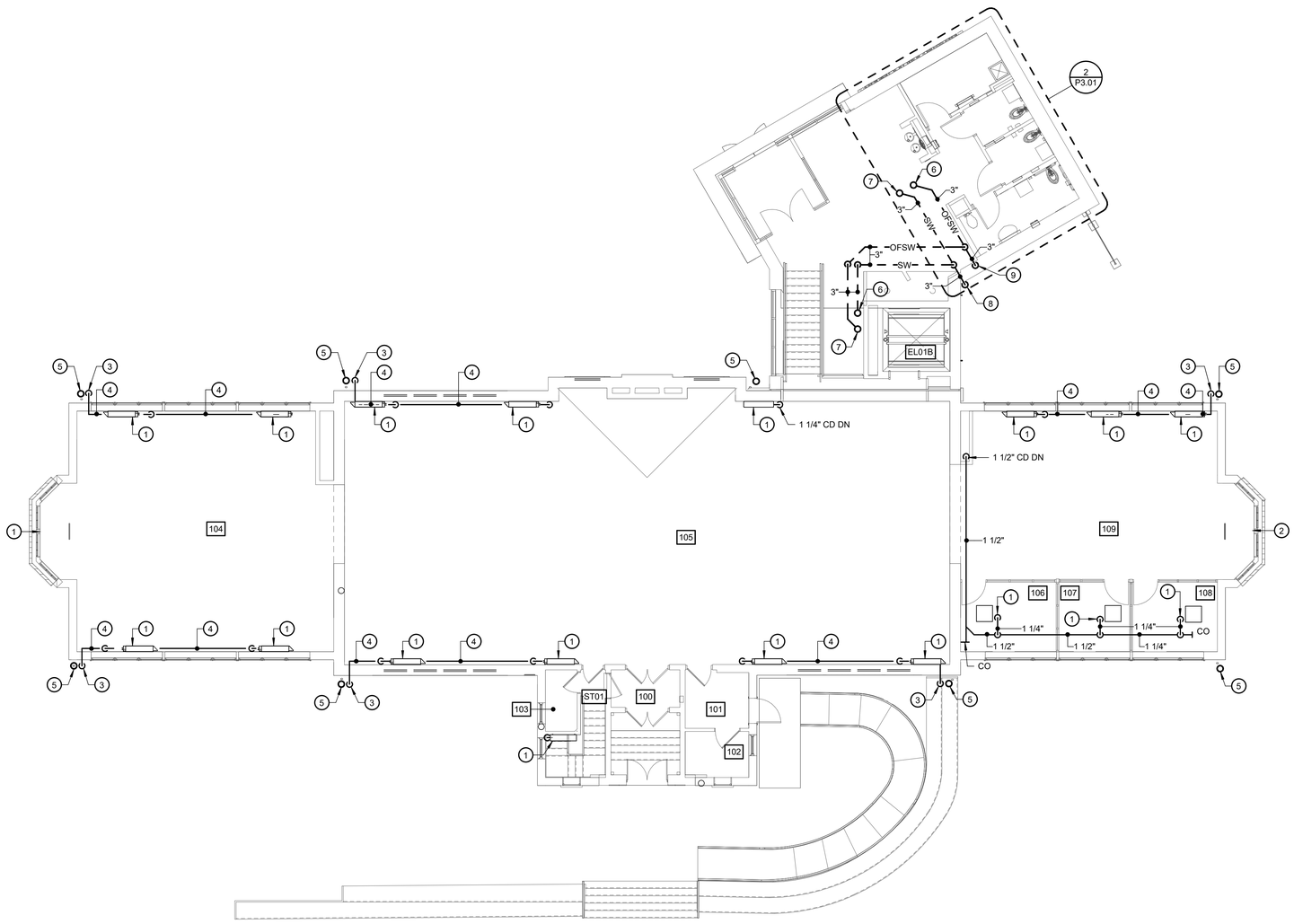
FIRST FLOOR RM LIST	
011C	LOBBY
012B	RESTROOM VESTIBULE
013C	JAN CLO
100	VESTIBULE
101	DELIVERIES
102	STORAGE
103	STORAGE
104	CHILDREN'S
105	COLLECTION
106	STUDY
107	STUDY
108	STUDY
109	ADULT
110B	VESTIBULE
114AC	FAMILY RESTROOM
114BB	RR
114CB	RR
115	EXTERIOR
EL01B	ELEV
ST01	STAIR



1 FIRST FLOOR PLAN - SANITARY - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P001 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P002 FOR PLUMBING SCHEDULES.

○ DRAWING NOTES:

1. MECHANICAL UNIT UNDER ANOTHER DIVISION, UNDER THIS DIVISION PROVIDE CONDENSATE PIPING AS REQUIRED FROM MECHANICAL UNIT.
2. 2" CD DOWN TO NEAR FLOOR.
3. 2" CD DOWN. CONNECT 2" CD DOWN IN VERTICAL TO ARCHITECTURAL DOWNSPOUT. REFER TO ARCHITECTURAL DRAWINGS. PROVIDE BACKWATER VALVE.
4. CONDENSATE PIPING RACKED ON WALL NEAR FLOOR SLOPE AT 1% PER FOOT. COORDINATE PIPING WITH ARCHITECTURAL DRAWINGS.
5. DOWNSPOUT UP & DOWN SHOWN ON PLUMBING PLANS FOR COORDINATION. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION.
6. 3" SW UP TO 3" ROOF DRAIN.
7. 3" OFSW UP TO 3" OVERFLOW DRAIN.
8. 3" SW DOWN.
9. 3" OFSW DOWN.

0 2 4 8 16 24
SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN SANITARY NEW WORK

P2.03

SHEET 146 OF 179

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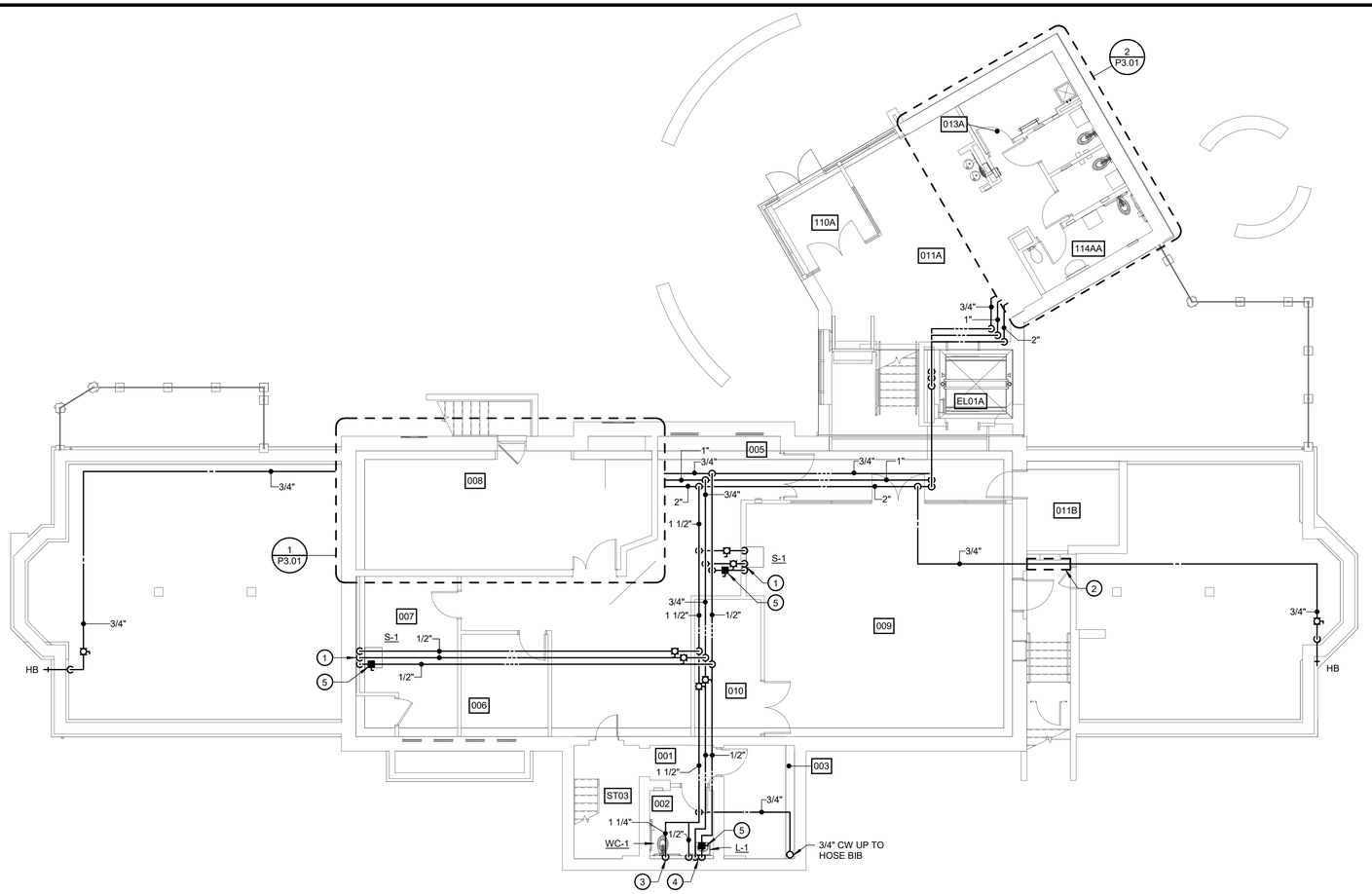
LOWER LEVEL RM LIST	
001	CORRIDOR
002	RR
003	ELEC / IT
005	STAFF WORKROOM
006	OFFICE
007	BREAKROOM
008	MECHANICAL
009	MEETING ROOM
010	STORAGE
011A	LOBBY
011B	ELECTRICAL
012A	LOWER LOBBY
012D	RESTROOM
013A	JAN CLO
013B	JAN CLO
110A	VESTIBULE
114AA	FAMILY RESTROOM
114AB	FAMILY RESTROOM
114BA	RR
114CA	RR
115	EXTERIOR
EL01A	ELEV
ST02	STAIR
ST03	STAIR



1 LOWER LEVEL PLAN - DOMESTIC WATER - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.

DRAWING NOTES:

1. 1/2" CW, 1/2" HW, 1/2" HWR DOWN TO S-1.
2. PROVIDE HEAT TAPE WERE DOMESTIC WATER PIPE IS EXPOSED TO EXTERIOR.
3. 1-1/4" COLD WATER DOWN TO WC-1.
4. 1/2" COLD WATER, 1/2" HOT WATER, 1/2" HOT WATER RETURN DOWN TO L-1.
5. COMBINATION SHUT-OFF AND BALANCE FITTING SET AT 0.5 GPM.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN DOMESTIC WATER NEW WORK

P2.04

SHEET 147 OF 179

22057

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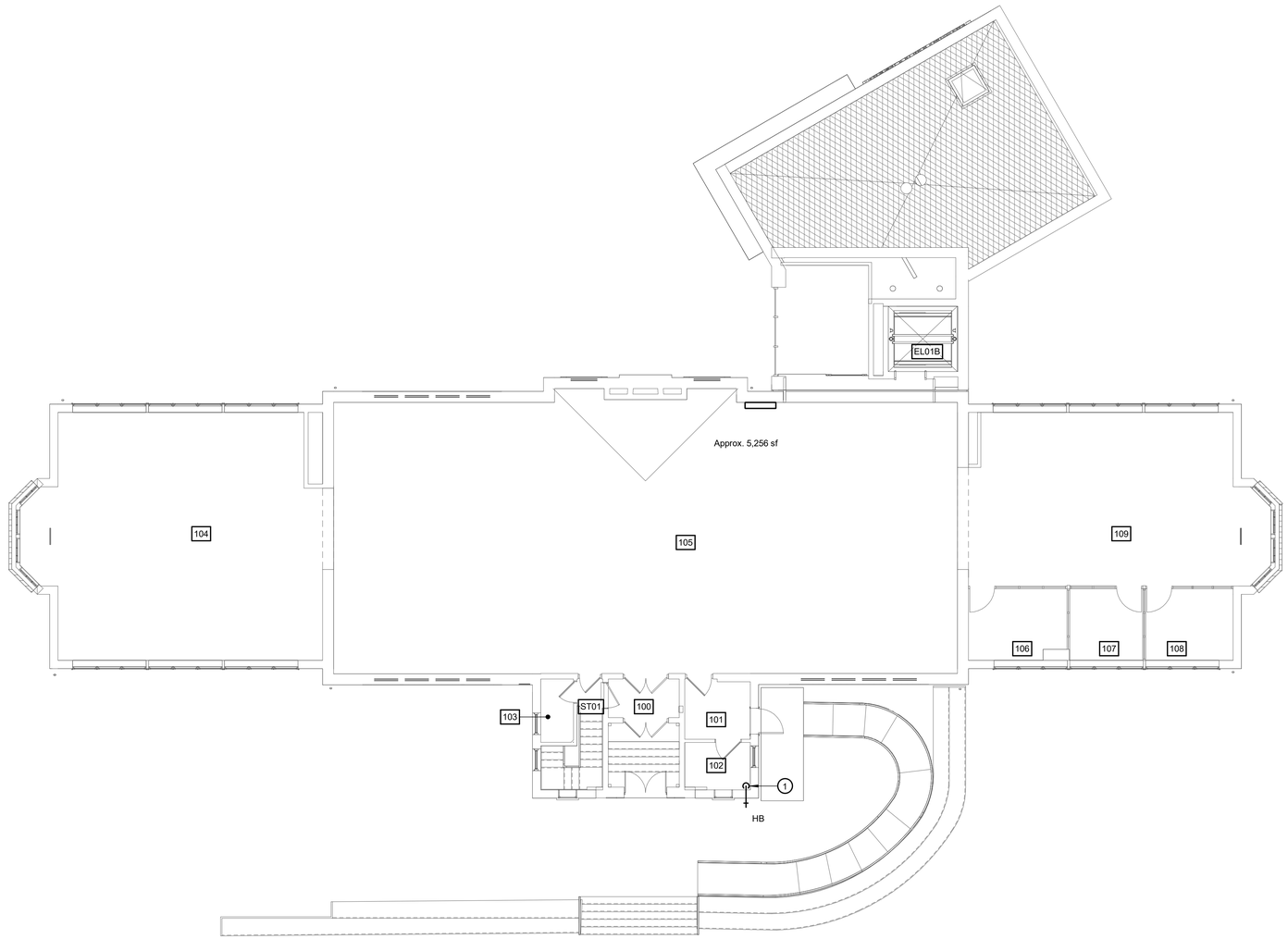
FIRST FLOOR RM LIST	
011C	LOBBY
012B	RESTROOM VESTIBULE
013C	JAN CLO
100	VESTIBULE
101	DELIVERIES
102	STORAGE
103	STORAGE
104	CHILDREN'S
105	COLLECTION
106	STUDY
107	STUDY
108	STUDY
109	ADULT
110B	VESTIBULE
114AC	FAMILY RESTROOM
114BB	RR
114CB	RR
115	EXTERIOR
EL01B	ELEV
ST01	STAIR



1 FIRST FLOOR PLAN - DOMESTIC WATER - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.
3. ALL PIPING SHOWN ON THIS DRAWING ARE LOCATED ABOVE CEILING SPACE.

ⓞ DRAWING NOTES:

1. 3/4" COLD WATER DOWN TO HOSE BIBB. LOCATE NEW HOSE BIBB AT EXISTING LOCATION PRIOR TO DEMOLITION.

SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN DOMESTIC WATER NEW WORK

P2.05

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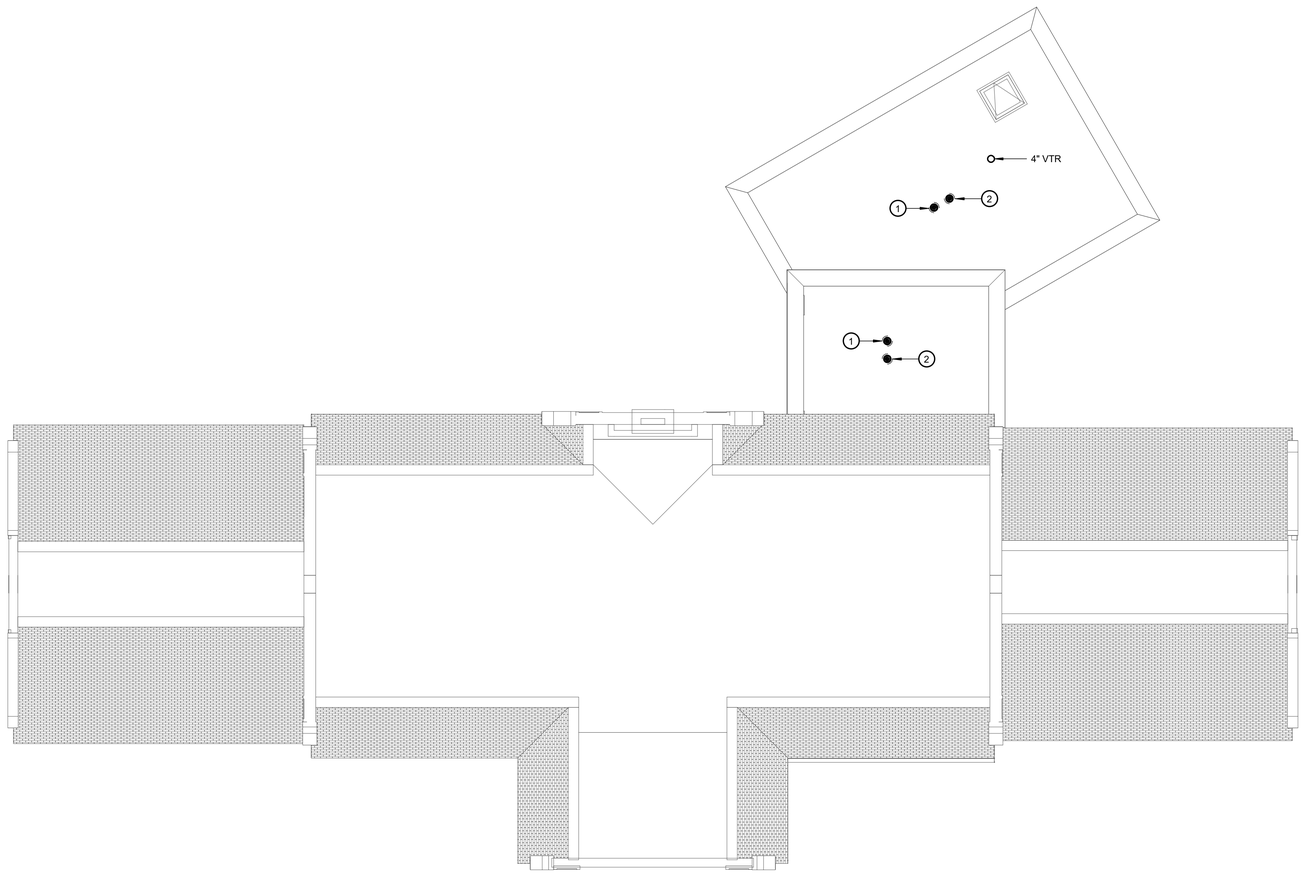

1 ROOF PLAN - PLUMBING - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.

○ DRAWING NOTES:

1. 3" ROOF DRAIN.
2. 3" OFSW DRAIN.

0 2 4 8 16 24

SCALE: 1/8" = 1'-0"

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ROOF PLAN PLUMBING NEW WORK

P2.06

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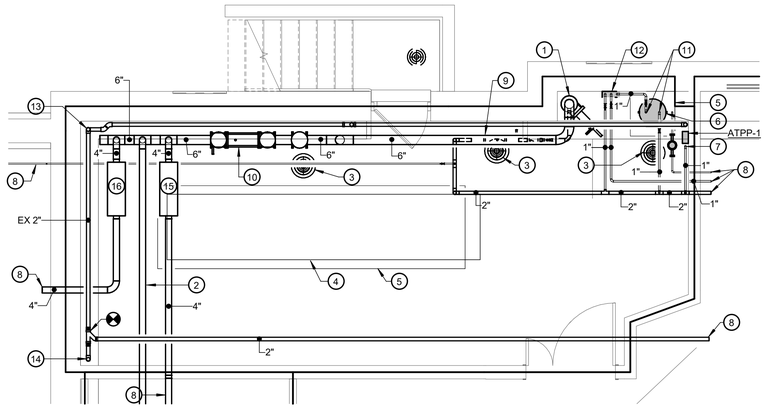
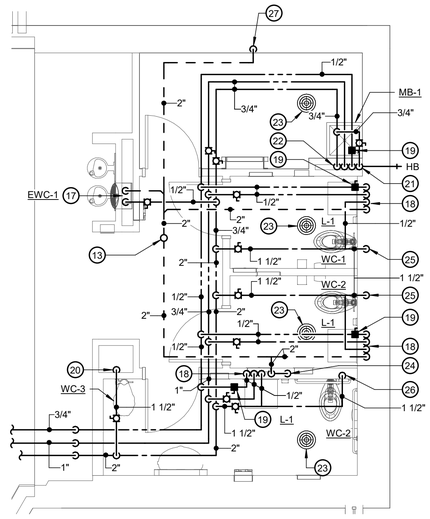


1 PART PLAN - MECHANICAL ROOM - PLUMBING - NEW WORK

SCALE: 1/4" = 1'-0"



2 PART PLAN - TOILET ROOM - PLUMBING - NEW WORK

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.002 FOR PLUMBING SCHEDULES.

DRAWING NOTES:

1. 6" COMBINATION DOMESTIC WATER & FIRE PROTECTION SERVICE DOWN. PROVIDE OS&Y WITH TAMPER SWITCH IN VERTICAL ABOVE FLOOR.
2. 4" FIRE TO 2 1/2" x 2 1/2" x 4" FIRE DEPARTMENT SIAMESE CONNECTION.
3. 4" FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
4. MECHANICAL UNIT UNDER ANOTHER DIVISION, UNDER THIS DIVISION PROVIDE CONDENSATE PIPING AS REQUIRED FOR MECHANICAL UNIT AND EXTEND TO NEAREST FLOOR DRAIN WITH AIR GAP. REFER TO DETAIL ON MECHANICAL DRAWINGS.
5. CONCRETE HOUSE KEEPING PAD.
6. DOMESTIC WATER HEATER DWH-1. REFER TO SCHEDULE AND DETAIL.
7. 1" CW DOWN TO ATPS-1. REFER TO DETAIL.
8. REFER TO FLOOR PLAN FOR CONTINUATION.
9. 2" DOMESTIC WATER REDUCED PRESSURE ZONE BACKFLOW PREVENTER, REFER TO SCHEDULE AND DETAIL.
10. 6" FIRE PROTECTION DOUBLE CHECK DETECTOR BACKFLOW PREVENTER, REFER TO SCHEDULE AND DETAIL.
11. 1" CW & 1" HW DOWN TO DWH-1.
12. 1" CW, 1" HW (130°F) & 1" HW (140°F) DOWN TO DWMV-1. REFER TO SCHEDULE & DETAIL.
13. 2" VENT UP TO 4" VTR.
14. 2" VENT DOWN.
15. SPRINKLER ZONE VALVE ASSEMBLY (LEVEL 0 SPRINKLER ZONE A ZONE), REFER TO DETAIL.
16. SPRINKLER ZONE VALVE ASSEMBLY (LEVEL 1 SPRINKLER ZONE A ZONE), REFER TO DETAIL.
17. 1/2" CW DOWN TO EWC-1.
18. 1/2" CW, 1/2" HW, 1/2" HWR & 2" VENT DOWN TO (2) L-1, 2" SANITARY.
19. COMBINATION SHUT-OFF & BALANCE FITTING SET AT 0.5 GPM.
20. 1 1/2" CW DOWN TO WC-3. PROVIDE WATER HAMMER ARRESTOR.
21. 3/4" COLD WATER DOWN TO NON-FREEZE HOSE BIB.
22. 3/4" COLD WATER, 3/4" HOT WATER & 1/2" HOT WATER RETURN DOWN TO MB-1.
23. 3" FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
24. 2" VENT DOWN TO 3" SANITARY.
25. 1 1/2" CW DOWN TO WC-1. PROVIDE WATER HAMMER ARRESTOR.
26. 1 1/2" CW DOWN TO WC-2. PROVIDE WATER HAMMER ARRESTOR.
27. 2" VENT DOWN TO 4" SANITARY. COORDINATE WITH STRUCTURAL.

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SCALE: 1/4" = 1'-0"

PART FLOOR PLANS PLUMBING NEW WORK

P3.01

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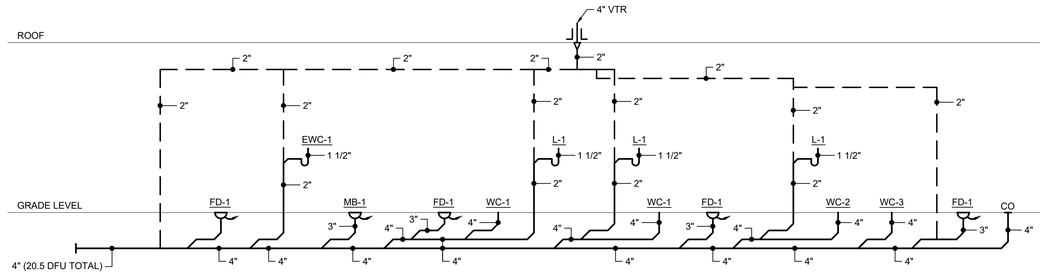

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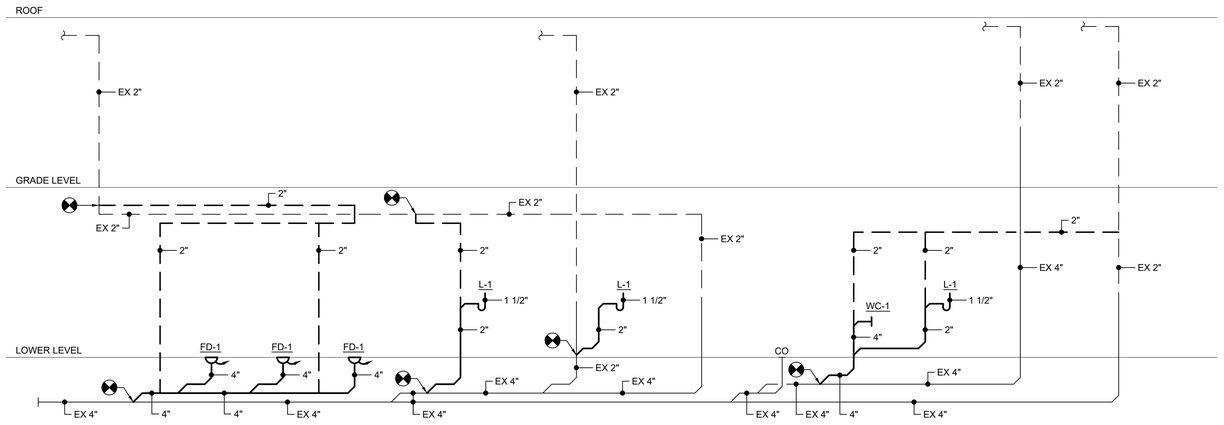
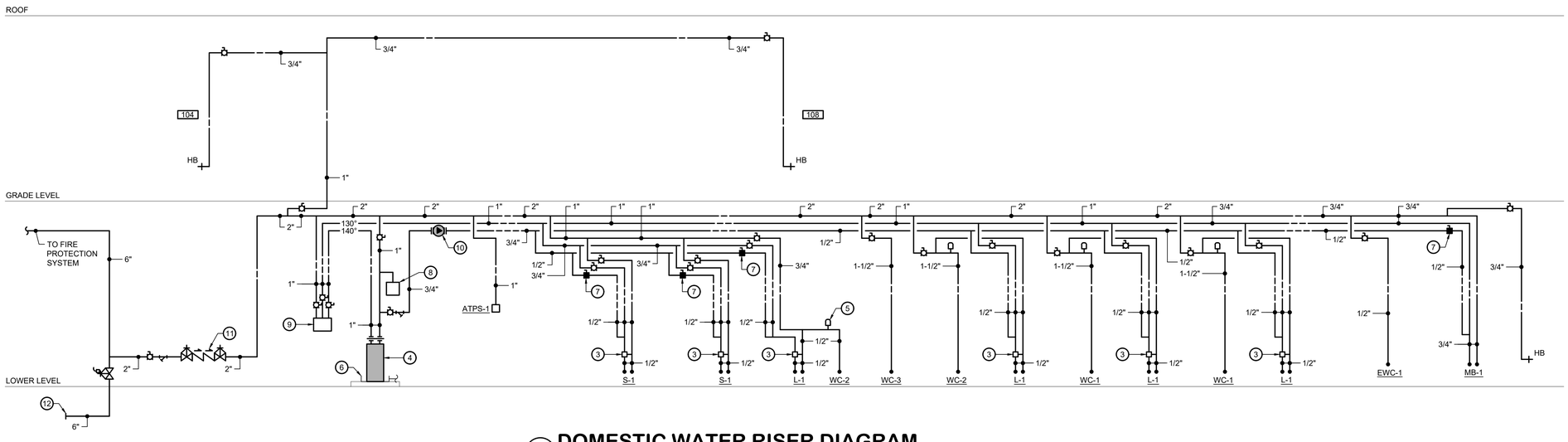
NO SCALE



2 SANITARY RISER DIAGRAM
NO SCALE



3 DOMESTIC WATER RISER DIAGRAM
NO SCALE

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING P0.02 FOR PLUMBING SCHEDULES.

DRAWING NOTES:

1. 3" FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
2. 4" VTR.
3. ASSE 1070 POINT-OF-USE THERMOSTATIC MIXING VALVE. LAWLER 570.
4. DOMESTIC WATER HEATER, REFER TO SCHEDULE AND DETAIL.
5. WATER HAMMER ARRESTER, SIZE PER PDI WH-201 STANDARDS.
6. DOMESTIC WATER HEATER SAFE PAN. DRAIN TO FLOOR DRAIN.
7. COMBINATION SHUT-OFF AND BALANCING FITTING SET AT 0.5 GPM.
8. EXPANSION TANK, REFER TO SCHEDULE AND DETAIL.
9. DOMESTIC WATER MIXING VALVE, REFER TO SCHEDULE AND DETAIL.
10. RECIRCULATING PUMP, REFER TO SCHEDULE AND DETAIL.
11. REDUCED PRESSURE ZONE BACKFLOW PREVENTER.
12. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

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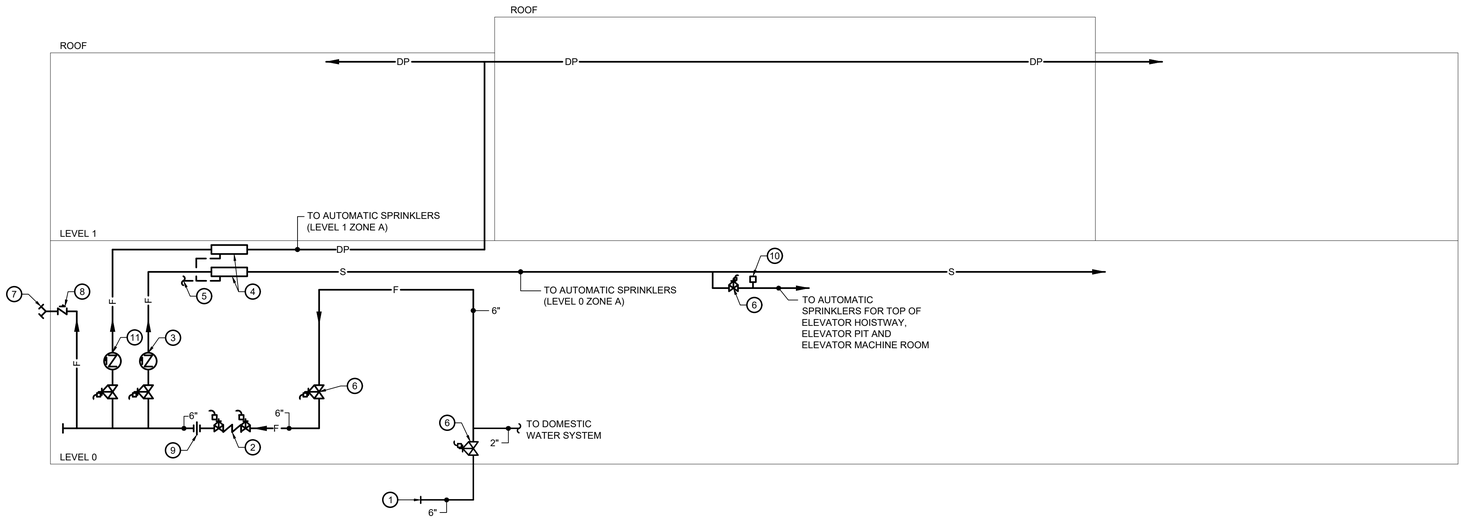
RISER DIAGRAMS

P4.01
SHEET 151 OF 179

22057

BKM:22148.01

Plotted By: Sean MacCubbin | 2/4/2025 12:52 PM
ARL: G:\22148.01\Drawings\Acad\P\P4.01 - RISER DIAGRAM



1 FIRE PROTECTION RISER DIAGRAM

NO SCALE

GENERAL NOTES:

1. REFER TO P0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO P0.02 FOR PLUMBING SCHEDULES.
3. ALL VALVES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. WHERE VALVES ARE LOCATED ABOVE FIRE-RATED CEILINGS, PROVIDE FIRE-RATED ACCESS PANELS.
4. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13, 14 AND 20.

DRAWING NOTES:

1. 6" INCOMING COMBINED DOMESTIC WATER/ FIRE PROTECTION SERVICE, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. 6" FIRE PROTECTION DOUBLE CHECK BACKFLOW PREVENTER WITH HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS OWNED AND SUPPLIED BYPASS METER, PROVIDE PIPE SUPPORTS, REFER TO DETAIL.
3. WET PIPE ALARM CHECK VALVE ASSEMBLY & TRIM, REFER TO DETAIL.
4. SPRINKLER ZONE VALVE ASSEMBLY, REFER TO DETAIL.
5. 2" INSPECTOR'S TEST AND DRAIN, FOR CONTINUATION REFER TO FLOOR PLANS.
6. OS&Y GATE VALVE WITH TAMPER SWITCH. (TYPICAL)
7. FLUSH MOUNTED 2 1/2" x 2 1/2" x 4" FIRE DEPARTMENT SIAMESE CONNECTION WITH BALL DRIP, REFER TO FLOOR PLANS FOR EXACT LOCATION.
8. CHECK VALVE.
9. DISMANTLING COUPLING.
10. FLOW SWITCH.
11. DRY PIPE ALARM CHECK VALVE ASSEMBLY & TRIM, REFER TO DETAIL.

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RISER DIAGRAMS

P4.02

SHEET 152 OF 179

22057

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ARL: G:\22148.01\Drawings\Acad\PP4.02 - FIRE PROTECTION RISER DIAGRAM
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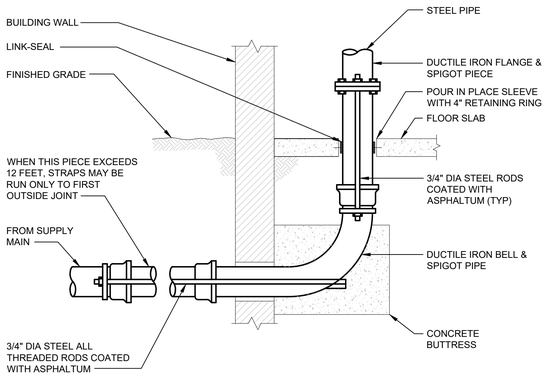
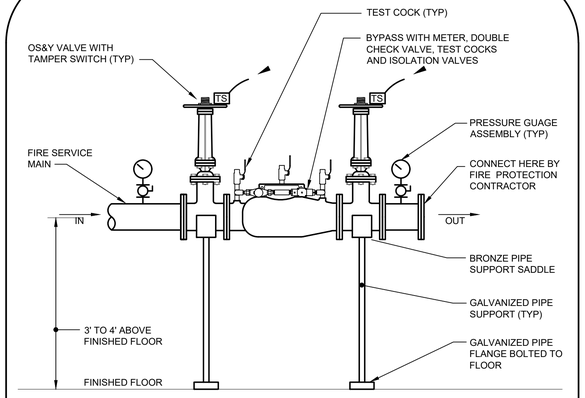


1 INCOMING WATER SERVICE DETAIL

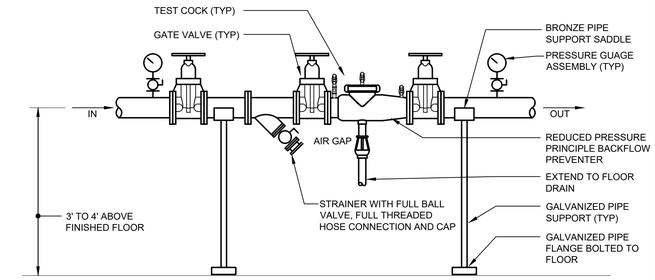
NO SCALE PDD053



2 DOUBLE CHECK DETECTOR VALVE ASSEMBLY

NO SCALE FPD007A

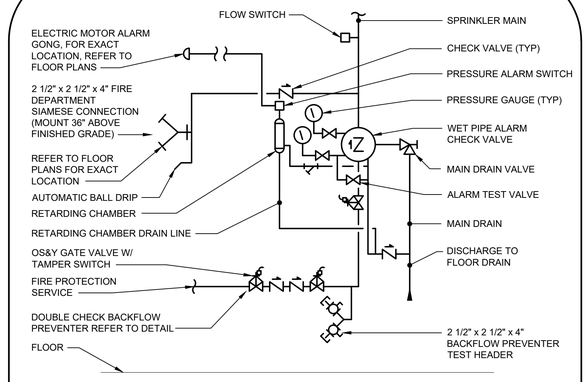
NOTE: 1. FIRE PROTECTION DOUBLE CHECK DETECTOR BACKFLOW PREVENTER WITH MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORK OWNED AND SUPPLIED BYPASS METER.



3 REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY DETAIL

NO SCALE PDD020B

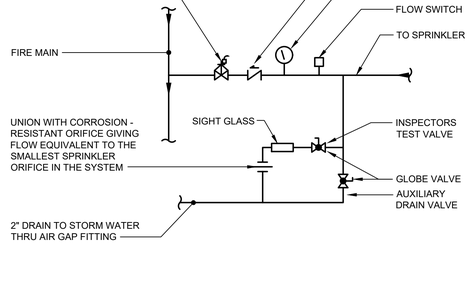
NOTE: 1. DOMESTIC WATER REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORK OWNED AND SUPPLIED BYPASS METER.



4 WET PIPE FIRE PROTECTION DETAIL

NO SCALE FPD010

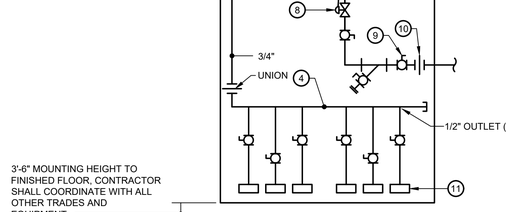
NOTES: 1. ALL PIPING AND APPURTENANCES SHALL CONFORM TO NFPA 13 & 14.
2. MULTIPLE ALARM CHECK VALVES AND ASSOCIATED TRIM MAYBE REQUIRED IF ANY FLOOR EXCEEDS THE MAXIMUM SQUARE FOOTAGE PER SPRINKLER ZONES ALLOWED BY NFPA.



5 SPRINKLER ZONE ASSEMBLY DETAIL

NO SCALE FPD001

NOTE: IN LIEU OF FABRICATING INSPECTOR'S TEST AND DRAIN ASSEMBLY, CONTRACTOR MAY USE MANUFACTURED SINGLE TEST AND DRAIN ASSEMBLY, VICTAULIC TEST MASTER ALARM TEST MODULE OR EQUIVALENT.



6 TRAP PRIMING STATION DETAIL

NO SCALE PDD009

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE PPP-PT SERIES OR EQUIVALENT. ENCLOSED ELECTRONIC TRAP SEAL SYSTEM WITH BRONZE BODY, 1/2" FEMALE NPT BALL VALVE, ELECTRICAL BRASS BODY 1/2" SOLENOID VALVE, 3/4" TYPE "L" COPPER MANIFOLD WITH DISTRIBUTION UNITS WITH COMPRESSION CONNECTIONS FOR WATER DISTRIBUTION. ELECTRICAL COMPONENTS TO INCLUDE SINGLE POINT POWER CONNECTION AT 120V, MANUAL OVERRIDE SWITCH, MINIMUM 5 AMP BREAKER, 24 HOUR TIMER WITH RELAY AND ADJUSTABLE DELAY. ALL COMPONENTS TO BE FACTORY ASSEMBLED AND INSTALLED INTO A 16 GUAGE SATIN COATED STEEL BOX FOR RECESSED OR SURFACE MOUNTED INSTALLATION. ELECTRONIC COMPONENTS ARE TESTED AND CERTIFIED TO U.L. STANDARD #73 AND THE ENTIRE ASSEMBLY IS TESTED AND CERTIFIED TO THE ASSE 1044 STANDARD.

DRAWING NOTES:

1. 24 HOUR TIMER WITH RELAY, TIMER SHALL OPERATE ONCE EVERY 24 HOURS FOR 15-20 SECONDS.
2. MANUAL OVERRIDE.
3. 5 AMP FUSE.
4. 3/4" TYPE L COPPER MANIFOLD. MANIFOLD SHALL BE DESIGNED FOR EQUAL WATER DISTRIBUTION TO ALL PORTS.
5. 120V CONNECTION.
6. ATMOSPHERIC VACUUM BREAKER.
7. 16 GAUGE SATIN COATED STEEL BOX 24x24x6, LOCKABLE HINGED, ACCESSIBLE PANEL TO ENCASE VALVE, MANIFOLD AND TUBING TO FLOOR DRAIN/SINK/ THROUGH TRAP. (RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS).
8. ELECTRICAL SOLENOID VALVE.
9. 1/2" BALL VALVE FOR WATER SUPPLY.
10. UNION WITH INTERNAL REPLACABLE FILTER .
11. DISTRIBUTION UNITS (TYP).

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22057

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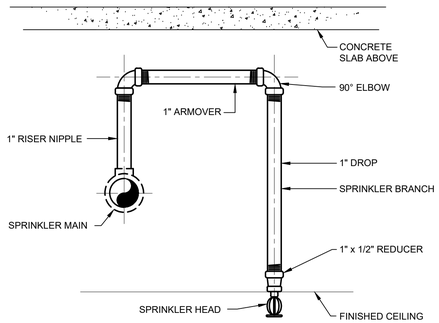
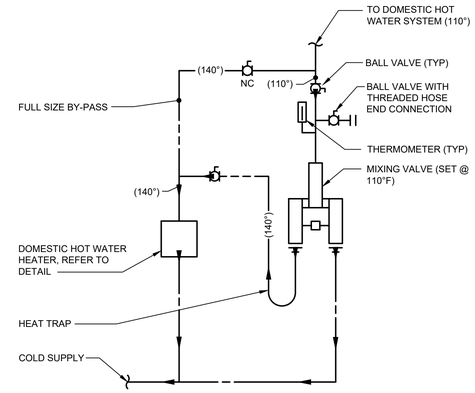


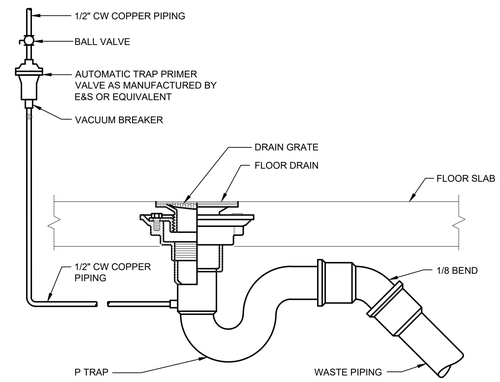
1 RETURN BEND DETAIL
NO SCALE

NOTES:
1. ALL PIPING AND APPURTENANCES SHALL CONFORM TO NFPA 13.
2. SPRINKLER CONTRACTOR SHALL LIMITED TO (2) TWO 90° ELBOWS IN THE RETURN BEND.
3. LOCATE SPRINKLER HEADS IN MIDDLE OF THE CEILING TILE.

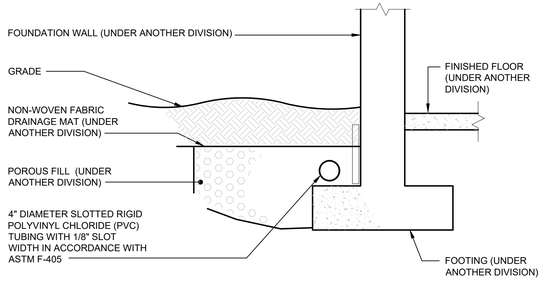


2 MIXING VALVE PIPING DETAIL
NO SCALE PDD066C

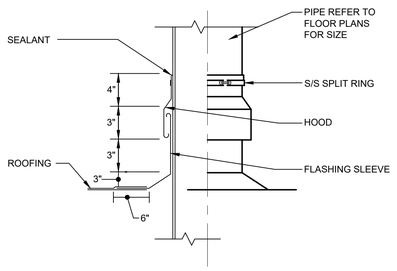
NOTE: CONTRACTOR SHALL REFER TO THE MIXING VALVE MANUFACTURER'S RECOMMENDATIONS FOR THE PIPING SIZING AND BALANCE VALVE SETTINGS.



3 FLOOR DRAIN DETAIL
NO SCALE PDD058

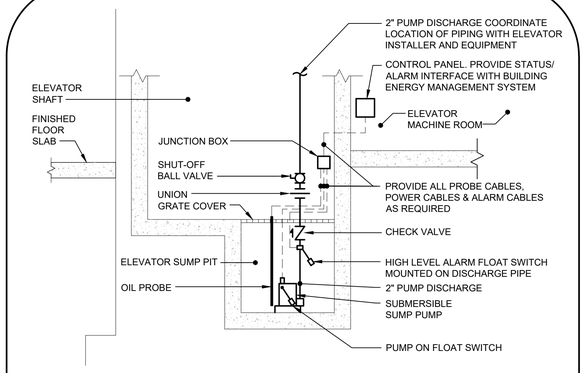


4 FOUNDATION DRAIN DETAIL
NO SCALE PDD010



5 PIPE THRU ROOF DETAIL
NO SCALE PDD006

NOTES:
1. FLASHING METAL SHALL BE STAINLESS STEEL OR LEAD COATED COPPER.
2. INSTALL MAKE UP WATER PIPE IN PITCH POCKET.
3. SLEEVE SHALL MATCH ROOF STRUCTURE, SEAL AND MAKE WATER TIGHT.
4. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR ROOF CONSTRUCTION AND DETAILS OF ALL REQUIRED ROOF WORK INCLUDING BUT NOT LIMITED TO FLASHING AND COUNTER FLASHING OF CURBS, PENETRATIONS, ETC.



6 ELEVATOR SUMP PUMP DETAIL
NO SCALE PDD002

NOTES:
1. REFER TO FLOOR PLANS FOR EXACT LOCATION.
2. REFER TO SCHEDULES FOR CAPACITIES.
3. COORDINATE ALL PIPING, VALVES, JUNCTION BOXES, AND ALL ASSOCIATED APPURTENANCES WITH A ELEVATOR INSTALLER AND EQUIPMENT.
4. PUMP, OIL PROBE AND ACCESSORIES SHALL BE "OIL MINDER CONTROL SYSTEM" AS MANUFACTURED BY STANCOR, OR EQUIVALENT AND SHALL COMPLY WITH 2000 ASME A-17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

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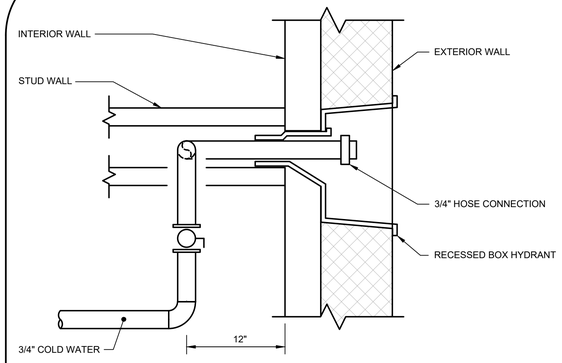
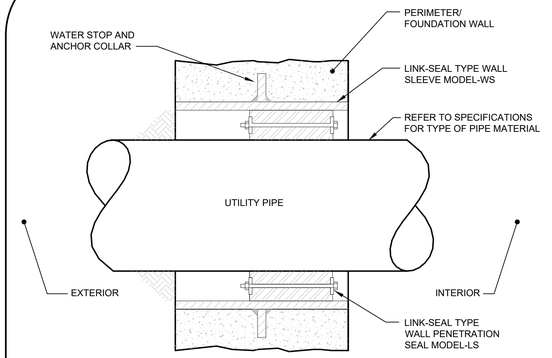


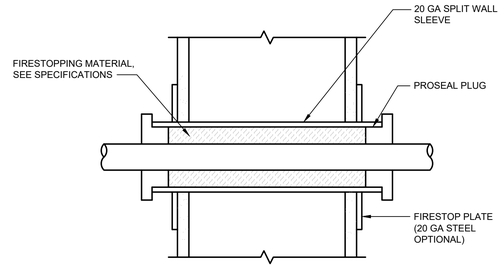
PLAN VIEW

1 WALL HYDRANT DETAIL
NO SCALE
PDD064

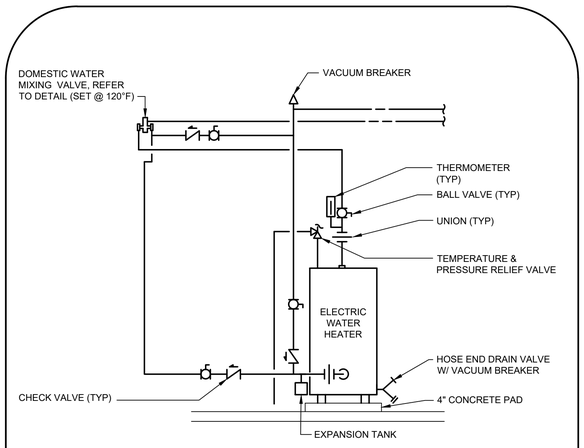


2 PIPE SLEEVE DETAIL (FOR PERIMETER WALLS ONLY)
NO SCALE
PDD031

DESIGNERS NOTE: USE FOR DOMESTIC WATER, SANITARY & STORM WATER.

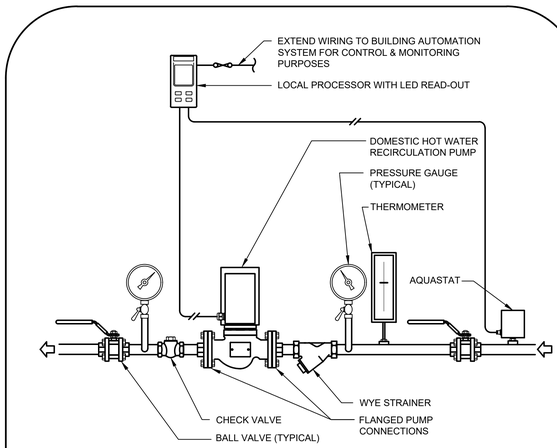


3 FIRE RATED SLEEVING SYSTEM DETAIL
NO SCALE
PDD024



4 ELECTRIC WATER HEATER SCHEMATIC DETAIL
NO SCALE

NOTES:
1. REFER TO FLOOR PLANS FOR EXACT LOCATIONS.
2. REFER TO SCHEDULES FOR SIZES AND CAPACITIES.



5 DOMESTIC HOT WATER RECIRCULATION PUMP STATION DETAIL
NO SCALE
PDD059

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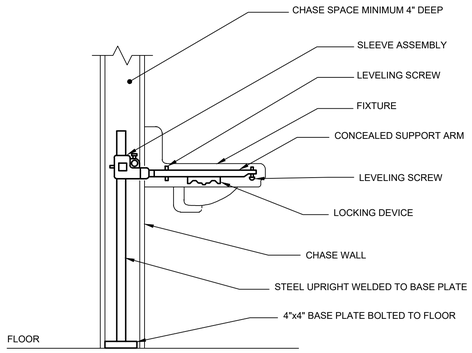
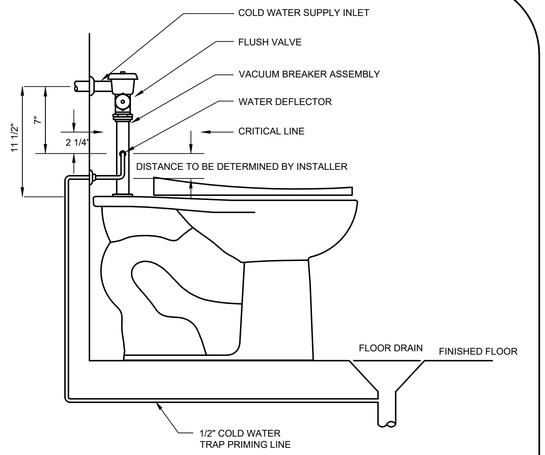
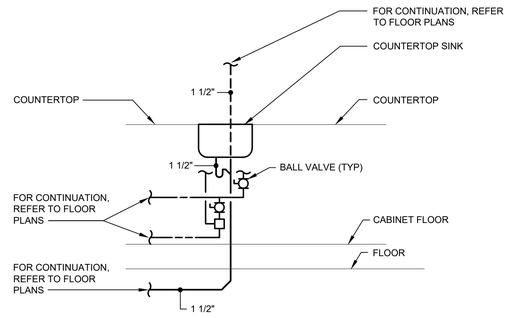


1 **WALL MOUNTED LAVATORY SUPPORT DETAIL**
NO SCALE PDD071



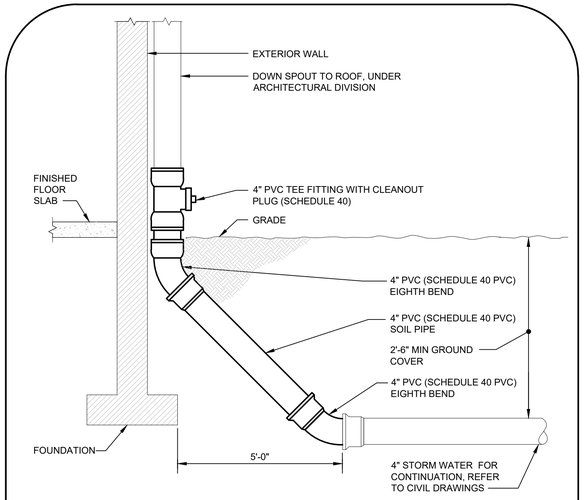
2 **FLUSH VALVE PRIMER DETAIL**
NO SCALE PDD067A

NOTE: 1. DIMENSIONS LISTED ARE FOR A SLOAN 110/111 VALVE. FOR TRAP PRIMER ASSEMBLIES BY OTHER MANUFACTURERS, REFER TO MAUNFACTURER'S INSTALLATION INSTRUCTIONS.



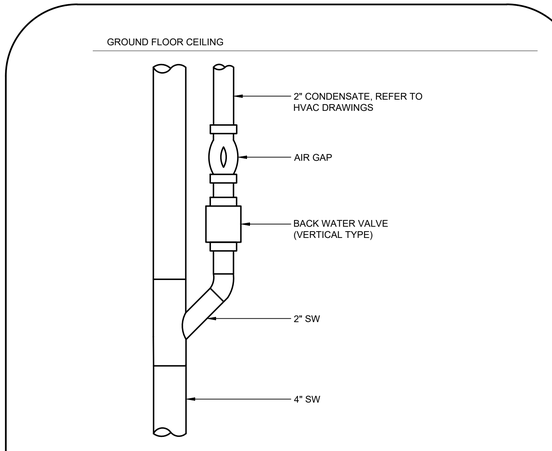
3 **COUNTER SINK PIPING DETAIL**
NO SCALE PDD035

NOTE: REFER TO PLUMBING EQUIPMENT SCHEDULE FOR CAPACITIES.



4 **DOWNSPOUT BOOT DETAIL**
NO SCALE PDD029B

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



5 **CONDENSATE STORM WATER CONNECTION DETAIL**
NO SCALE PD0042

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GENERAL ELECTRICAL NOTES FOR ALL WORKS:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FEDERAL/STATE/LOCAL CODES, INTERNATIONAL BUILDING CODE 2018, NFPA CODES, NEC 2017 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. FURNISH AND INSTALL ALL REQUIRED JUNCTION BOXES, PULL BOXES, SURFACE/RECESSED DEVICE BOXES, FITTINGS, CONDUIT BODIES, SUPPORTS, ACCESS DOORS, HARDWARE, ACCESSORIES, LIGHTING CONTROL DEVICES, INTERCOM DEVICES/EQUIPMENT, FIRE ALARM DEVICES, CABLES, WIRINGS, CONDUITS, CONTROL DEVICES/EQUIPMENT, ETC. REQUIRED FOR A COMPLETE AND WORKING ELECTRICAL SYSTEM, WHETHER OR NOT SUCH EQUIPMENT IS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

3. ELECTRICAL SUBCONTRACTOR SHALL PERFORM SITE VISITS AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS, SPECIFICATIONS AND FIELD CONDITIONS, BEFORE SUBMITTING A BID OR BEFORE SUBMITTING A PRICE PROPOSAL. FIELD VERIFY ALL IMPORTANT DIMENSIONS.

4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS AND ALL OTHER TRADES BEFORE INSTALLATION OF HIS WORK IN CHASES, CEILING SPACES AND OTHER AREAS WHERE CONFLICT MAY OCCUR.

5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL CONTRACT DOCUMENTS, SHOP DRAWINGS AND EQUIPMENT DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL CONTRACT DOCUMENTS, INCLUDING ALL DRAWINGS AND ALL SPECIFICATIONS.

6. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, AND SHALL PAY ALL FEES RELATIVE TO THE INSTALLATION OF HIS WORK.

7. PROVIDE ALL EQUIPMENT, COMPONENTS AND DEVICES SHOWN ON THE POWER RISER DIAGRAMS, POWER ONE-LINE DIAGRAMS, BLOCK DIAGRAMS, AND SPECIAL SYSTEMS RISER OR BLOCK DIAGRAMS, AND SPECIFICATIONS AND OTHER DISCIPLINES DRAWINGS (T SERIES DRAWINGS) WHETHER OR NOT SUCH EQUIPMENT, COMPONENTS AND DEVICES ARE INDICATED ON THE FLOOR PLANS FOR COMPLETE AND FULLY OPERATIONAL ALL SYSTEMS.

8. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL CORE-DRILLING, CUTTING, DIGGING OR TRENCHING REQUIRED FOR THE ELECTRICAL INSTALLATION UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR SUBJECT TO THE DIRECTION AND APPROVAL OF THE OWNER'S REPRESENTATIVE. DO NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF.

9. THE ELECTRICAL CONTRACTOR SHALL EXTEND WIRING AND CONDUIT TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. BEFORE "ROUGH-IN" OF OUTLETS, THE LOCATION AND TYPE OF CONNECTIONS/OUTLET SHALL BE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT.

10. WHERE JUNCTION BOXES OR ELECTRICAL EQUIPMENT ARE REQUIRED TO BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS OR CONCEALED INSIDE WALLS, THE ELECTRICAL SUBCONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS TO MAKE THE JUNCTION BOXES OR ELECTRICAL EQUIPMENT ACCESSIBLE.

11. ALL ELECTRICAL EQUIPMENT SHALL BE UNDERWRITER'S LABORATORY (U.L.) LISTED AND LABELED. ALL EQUIPMENT SHALL BE NEW U.O.N.

12. EXACT LOCATION OF ALL EQUIPMENT AND ACCESSORIES SHALL BE VERIFIED IN THE FIELD AND COORDINATED WITH OTHER TRADES. ADJUST LOCATIONS TO SUIT FIELD CONDITIONS. COMPLY WITH CLEARANCES AS REQUIRED BY THE NEC, THE MANUFACTURER, AND APPLICABLE CODES.

13. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.

14. ELECTRICAL WIRING, CONDUIT AND CIRCUIT BREAKERS FOR ELECTRICAL EQUIPMENT, MECHANICAL EQUIPMENT, ARCHITECTURAL EQUIPMENT, AND OTHER EQUIPMENT ARE BASED ON EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS. ANY CHANGES IN THE EQUIPMENT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR PROVIDES EQUIPMENT OTHER THAN WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS, AND CHANGES ARE REQUIRED IN THE WIRING, CONDUIT AND CIRCUIT BREAKERS, THEN HE SHALL PROVIDE THE REQUIRED WIRING, CONDUIT AND CIRCUIT BREAKERS AT NO ADDITIONAL COST.

15. COMPLY WITH ALL SAFETY REGULATIONS INCLUDING BUT NOT LIMITED TO OSHA, MOSHA AND ALL ELECTRICAL SAFETY REGULATIONS.

16. ELECTRICAL SUBCONTRACTOR SHALL FIELD VERIFY THE SWITCH AND/OR CIRCUIT BREAKER SOURCE OF EACH BRANCH OR FEEDER CIRCUIT BEFORE PERFORMING ANY WORK.

17. UNLESS OTHERWISE NOTED AS "EXISTING" OR "BY OTHERS" OR "NIC", ALL WORK, DEVICES AND EQUIPMENT ARE NEW AND SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.

18. WHERE THE WORD "PROVIDE" IS USED, THIS SHALL MEAN "FURNISH AND INSTALL".

19. PROVIDE DEDICATED NEUTRAL WIRES FOR ALL BRANCH CIRCUITS.

20. CABLES AND RACEWAY SHALL RUN PARALLEL OR PERPENDICULAR TO WALL AND CEILING STRUCTURES (COLUMNS, JOISTS, SUPPORT BEAMS, ETC.) FOR A NEAT APPEARANCE.

21. PROVIDE FIRESTOPPING AROUND PENETRATIONS OF FLOORS AND FIRE RATED WALLS. MAINTAIN THE FIRE RESISTANCE RATING OF THE FLOORS AND WALLS. INSTALL UL LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND UL's REQUIREMENTS.

22. DO NOT COMBINE MORE THAN THREE SEPARATE BRANCH CIRCUITS IN THE SAME CONDUIT UNLESS OTHERWISE NOTED.

23. DO NOT COMBINE SEPARATE FEEDER CIRCUITS IN THE SAME CONDUIT.

24. PROVIDE LABELS FOR ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELS, STARTERS, DISCONNECTS, BREAKERS, MCCs, SWITCHBOARDS, SWITCHGEAR, AND TRANSFORMERS.

25. JUNCTION BOXES AND CONDUIT BODIES SHOWN ON THE DRAWING ARE MINIMUM QUANTITY ONLY. PROVIDE ADDITIONAL JUNCTION BOXES AND CONDUIT BODIES AS REQUIRED BY THE NEC OR AS RECOMMENDED BY THE WIRE OR CABLE MANUFACTURER. DO NOT EXCEED THE MAXIMUM PULLING TENSIONS OF THE WIRE OR CABLE. DO NOT EXCEED THE MAXIMUM NUMBER OF CONDUIT BENDS INDICATED IN THE NEC.

26. PROVIDE GROUNDING AND BONDING OF ALL METALLIC RACEWAY, JUNCTION/PULL BOXES, ENCLOSURES, TROUGH, WIREWAY, DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE NEC.

27. INSTALL ALL DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, UL'S REQUIREMENTS AND APPLICABLE CODES.

28. ELECTRICAL ENCLOSURES, WIREWAYS, TROUGHS, OR AUXILIARY GUTTERS LOCATED ABOVE OR BELOW WALL MOUNTED ELECTRICAL EQUIPMENT SHALL EXTEND NOT MORE THAN 6 INCHES BEYOND THE FRONT OF THE ELECTRICAL EQUIPMENT. PROVIDE METAL CHANNELS AS REQUIRED TO OFFSET THE ELECTRICAL EQUIPMENT FROM THE WALL IN ORDER TO MEET THIS REQUIREMENT. COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL EQUIPMENT WORKING SPACE.

29. CONNECTORS AND TERMINATIONS FOR CONDUCTORS SHALL BE COMPATIBLE WITH THE CONDUCTOR SIZE AND MATERIAL, AND SHALL BE UL LISTED AND NEC COMPLIANT.

30. WHERE THE SIZE OF A JUNCTION BOX, PULL BOX OR WIREWAY IS NOT INDICATED ON THE DRAWINGS, THE SIZE SHALL BE SELECTED IN ACCORDANCE WITH THE NEC. WHERE THE ENCLOSURE TYPE OF THE JUNCTION BOX, PULL BOX OR WIREWAY IS NOT INDICATED ON THE DRAWINGS, THE ENCLOSURE TYPE SHALL COMPLY WITH THE NEC, THE SPECIFICATIONS, AND APPLICABLE CODES. THE ENCLOSURE TYPE SHALL BE SUITABLE FOR THE ENVIRONMENT WHERE IT IS BEING INSTALLED.

31. PROVIDE INDEPENDENT FREESTANDING SUPPORTS FOR DEVICES AND EQUIPMENT AS REQUIRED.

32. ALL DEVICES AND EQUIPMENT SHALL BE UL LISTED AND SHALL BE INSTALLED AND USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS. ALL EQUIPMENT SHALL BE SUITABLE FOR THE INTENDED USE AND LOCATION.

33. COORDINATE PUMP/MOTOR HORSEPOWER, NAMES AND LOCATIONS WITH THE MECHANICAL CONTRACTOR TO ENSURE THAT THE CORRECT VFDs ARE BEING PROVIDED TO THE PUMP MOTORS

34. NOT USED.

35. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE SITE, ADJOINING SITES AND STRUCTURES, ANY EXISTING STRUCTURES OR BUILDINGS AND SPACES RELEVANT TO THEIR WORK. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORT THAT DETAILS ANY CONDITIONS WHICH MIGHT PREVENT EQUIPMENT INSTALLATION IN THE MANNER SHOWN ON THE CONTRACT DOCUMENTS.

36. NO CONSIDERATION OR ALLOWANCE SHALL BE GIVEN FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED AND INSTALLED PROPERLY.

37. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER AND OWNER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING WORK IN THE AFFECTED AREA.

38. ALL SLAB PENETRATIONS MUST BE X-RAYED AND DOCUMENTED PRIOR TO BEGINNING WORK.

39. THE EXACT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL SYSTEMS. PROVIDE WIRES AND CABLES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON THE PLANS OR NOT.

40. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, WRITTEN SUBMITTALS, CUT SHEETS, CALCULATIONS AND EQUIPMENT LITERATURE FOR ALL EQUIPMENT BEING PROVIDED AS PART OF THIS SCOPE OF WORK. THE EXACT DEVICE OR PIECE OF EQUIPMENT MUST BE CLEARLY CALLED OUT FOR THE DESIGN TEAM TO REVIEW. SUBMITTALS WITHOUT THE PROPER INFORMATION HIGHLIGHTED SHALL BE REJECTED FOR RESUBMIT.

41. THE CONTRACTOR SHALL PROVIDE A COMPLETE PUNCHLIST OF ALL INSTALLED SYSTEMS TO THE CONSTRUCTION MANAGER WHEN THE INSTALLED WORK IS READY TO BE EXAMINED BY THE DESIGN INCOMPLETE SYSTEMS SHALL NOT BE REVIEWED UNTIL IT IS DETERMINED THAT THE SYSTEM ARE APPROXIMATELY AND APPROPRIATELY COMPLETE.

42. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE PATHWAYS INCLUDING, BUT NOT LIMITED TO, CONDUITS, BOXES, JUNCTION BOXES, SLEEVES, CHASES, RACEWAYS, CABLE TRAYS AND J-HOOKS TO PROPERLY SUPPORT THE LOW VOLTAGE INFRASTRUCTURE IN ACCORDANCE WITH TOWSON UNIVERSITY REQUIREMENTS. COORDINATE WITH TOWSON UNIVERSITY AND WITH TELECOMMUNICATIONS/SECURITY/ACCESS SYSTEMS CONTRACTORS AND OTHER DISCIPLINES AS REQUIRED.

43. PROVIDE A COMPLETE TELECOM GROUNDING AND BONDING SYSTEM INCLUDING ALL TGBS, TMGBS, BONDING CONDUCTORS, LUGS, NUTS, CABLES AND CONNECTORS. BOND TO THE MAIN GROUNDING SYSTEM IN THE BUILDING IN ACCORDANCE WITH TOWSON UNIVERSITY REQUIREMENT.

44. DISCONNECTS FOR HVAC UNITS TO BE LOCATED IN THE CEILING SPACES SHALL BE INSTALLED AT THE ACCESSIBLE LOCATIONS WITH LABELS.

GENERAL ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL ELECTRICAL DEVICES, DATA/TELEPHONE/VIDEO/AUDIO, LIGHTING AND CONTROL INSTALLED AT DEMOLISHED WALLS AND CEILING, AND ASSOCIATED WIRING/CABLES AND CONDUIT BACK TO SOURCE PANELS.

2. FOR EXISTING EQUIPMENT TO BE REMOVED, REMOVE DISCONNECTS, COMBINATION STARTERS, MANUAL STARTERS, AND WIRING/CONDUIT ASSOCIATED WITH THE EQUIPMENT ALL THE WAY UP TO THE SOURCE PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER, UNLESS OTHERWISE NOTED. WHERE THE WIRING/CONDUIT ASSOCIATED WITH THE EQUIPMENT ALSO FEEDS EXISTING EQUIPMENT TO REMAIN, ONLY THAT PORTION OF THE WIRING/CONDUIT THAT FEEDS THE EQUIPMENT TO REMAIN SHALL REMAIN. SEAL ALL OPENINGS IN THE CONDUIT, JUNCTION BOXES, AND ENCLOSURES.

3. SEAL ALL OPENINGS IN WALLS, ROOF AND FLOORS, WHERE SUCH OPENINGS WERE CAUSED BY REMOVAL OF EXISTING WIRING, CONDUIT AND OTHER EQUIPMENT. PROVIDE FIRESTOPPING TO MAINTAIN THE FIRE RESISTANCE RATING OF THE WALLS AND FLOORS. ROOF SHALL BE REPAIRED BY OWNER'S ROOF CONTRACTORS WHO HOLD ROOF WARRANTY. CONTRACTOR SHALL HIRE ROOF CONTRACTORS TO REPAIR/SEAL ANY DAMAGES/OPENINGS CAUSED BY ANY WORKS.

4. WHERE AN EXISTING DEVICE/EQUIPMENT IS BEING REMOVED, AND THE WIRING AND/OR CONDUIT ASSOCIATED WITH THE DEVICE/EQUIPMENT IS BEING DISCONNECTED AND MADE SAFE, THIS SHALL MEAN THAT THE EXISTING WIRING SHALL BE DISCONNECTED AT THE DEVICE/EQUIPMENT AND AT THE SOURCE (DISCONNECT SWITCH, TOGGLE SWITCH, FUSE OR BREAKER, WHICHEVER SOURCE IS CLOSEST TO THE LOAD). BOTH ENDS OF THE WIRING SHALL BE INSULATED WITH WIRE NUTS OR ELECTRICAL INSULATING TAPE.

5. EXISTING UNUSED WIRING SHALL BE COMPLETELY REMOVED UP TO THE SOURCE.

SYMBOL LIST

NORTH ARROW (ARROW POINTING NORTH)

A–1 — ELECTRICAL WIRING AND CONDUIT HOMERUN TO PANEL, SWITCHBOARD. LETTER DENOTES PANEL, SWITCHBOARD DESIGNATION, NUMBER DENOTES CIRCUIT NUMBER. FOR WIRING AND CONDUIT INFORMATION, REFER TO PANEL/SWITCHBOARD SCHEDULE, ONE-LINE DIAGRAM, OR DRAWING NOTES. WIRING AND CONDUIT INFORMATION SHALL APPLY TO THE ENTIRE LENGTH OF THE CIRCUIT, THROUGH SWITCHES, DISCONNECTS, CONTROLLERS, STARTERS, JUNCTION BOXES OR OTHER INTERMEDIATE POINTS, ALL THE WAY UP TO THE FINAL LOAD AT THE END OF THE CIRCUIT, U.O.N. IF MORE THAN ONE ARROW IS INDICATED, THE NUMBER OF ARROWS INDICATE THE NUMBER OF CIRCUITS IN THE SAME CONDUIT.

ELECTRICAL WIRING AND CONDUIT U.O.N. REFER TO PANEL, SWITCH BOARD, MCC SCHEDULE, ONE-LINE DIAGRAM, OR DRAWING NOTES FOR WIRING AND CONDUIT INFORMATION. WIRING AND CONDUIT INFORMATION SHALL APPLY TO THE ENTIRE LENGTH OF THE CIRCUIT, THROUGH SWITCHES, DISCONNECTS, CONTROLLERS, STARTERS, JUNCTION BOXES OR OTHER INTERMEDIATE POINTS, ALL THE WAY UP TO THE FINAL LOAD AT THE END OF THE CIRCUIT, U.O.N.

G — DUPLEX GFCI RECEPTACLE WALL MTD AT 18" AFF, U.O.N. DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

DUPLEX RECEPTACLE WALL MTD AT 18" AFF , U.O.N. DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

G — COUNTER TOP DUPLEX GFCI RECEPTACLE WALL MTD AT 46" AFF , U.O.N. DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

COUNTER TOP DUPLEX RECEPTACLE WALL MTD AT 46" AFF , U.O.N. DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

AV — DUPLEX RECEPTACLE FOR AV EQUIPMENT. SEE FLOOR PLANS FOR MOUNTING HEIGHT. DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

FLOOR MOUNTED DUPLEX RECEPTACLE FOR . DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R.

2 SETS OF DUPLEX RECEPTACLE WALL MTD AT 18" AFF , U.O.N. DUPLEX RECEPTACLES SHALL BE 20A, 120V, NEMA 5-20R.

SPLIT CIRCUIT DUPLEX RECEPTACLE. HALF OF THE RECEPTACLE IS CONTROLLED BY ROOM LIGHTING OCCUPANCY SENSOR, THE OTHER HALF IS ALWAYS "HOT". WALL MTD AT 18" AFF, U.O.N. WHERE FED FROM A 20A BREAKER, DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R. WHERE FED FROM A 15A BREAKER, DUPLEX RECEPTACLE SHALL BE 15A, 120V, NEMA 5-15R.

SPLIT CIRCUIT QUAD RECEPTACLE. HALF OF THE RECEPTACLE IS CONTROLLED BY ROOM LIGHTING OCCUPANCY SENSOR, THE OTHER HALF IS ALWAYS "HOT". WALL MTD AT 18" AFF, U.O.N. WHERE FED FROM A 20A BREAKER, DUPLEX RECEPTACLE SHALL BE 20A, 120V, NEMA 5-20R. WHERE FED FROM A 15A BREAKER, DUPLEX RECEPTACLE SHALL BE 15A, 120V, NEMA 5-15R.

J — ELECTRICAL JUNCTION BOX (SIZE PER NEC U.O.N.) AND/OR ELECTRICAL CONNECTION TO EQUIPMENT AND DEVICES

MOTOR OR MECHANICAL/PLUMBING EQUIPMENT

TRANSFORMER

FIXED CIRCUIT BREAKER

COMBINATION STARTER, SEE DRAWING NOTES FOR STARTER DETAILS. STARTER SHALL BE WALL MOUNTED AT 54" AFF TO TOP OF OPERATING HANDLE U.O.N.

DISCONNECT SWITCH, SEE DRAWING NOTES FOR SWITCH DETAILS. SWITCH SHALL BE WALL MOUNTED AT 54" AFF TO TOP OF OPERATING HANDLE U.O.N.

PANELBOARD. IF DASHED LINE IS INDICATED, IT REPRESENTS THE CLEARANCE IN FRONT OF PANELBOARD.

S — FIRE ALARM DEVICE, ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED.

P — FIRE ALARM DEVICE, ADDRESSABLE MANUAL PULL STATION WALL MTD AT 48" AFF.

FACP — FIRE ALARM CONTROL PANEL

FARAP — FIRE ALARM REMOTE ANNUNCIATOR PANEL

A / V / # — FIRE ALARM DEVICE, COMBINATION SPEAKER AND STROBE, WALL MTD AT 90" AFF. "#" INDICATES CANDELA RATING.

V / # — FIRE ALARM DEVICE, STROBE LIGHTS. WALL MTD AT 80" AFF. "#" INDICATES CANDELA RATING.

P — FIRE ALARM DEVICE, ADDRESSABLE MANUAL PULL STATION WALL MTD AT 48" AFF.

A — FIRE ALARM DEVICE, SPEAKER WALL MOUNTED AT 80" AFF.

XX — LIGHTING FIXTURE, "XX" IS THE LIGHTING FIXTURE TYPE. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL DETAILS, SYMBOLS AND FIXTURE TYPES.

XXE — LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT AND/OR ON GENERATOR CIRCUIT. "XXE" IS THE LIGHTING FIXTURE TYPE, SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL DETAILS, SYMBOLS AND FIXTURE TYPES.

XX — CEILING MOUNTED EXIT LIGHTING FIXTURE, "XX" IS THE LIGHTING FIXTURE TYPE. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL DETAILS, SYMBOLS AND FIXTURE TYPES.

XX W / XX D — EXIT LIGHTING FIXTURE, "XX" IS THE LIGHTING FIXTURE TYPE. WHERE FIXTURE HAS "D", FIXTURE SHALL BE DOOR FRAME MOUNTED AND WHERE FIXTURE HAS "W", FIXTURE SHALL BE WALL MOUNTED TYPE. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL DETAILS, SYMBOLS AND FIXTURE TYPES.

CS — CEILING MOUNTED OCCUPANCY SENSOR

DS — LOW VOLTAGE CEILING MOUNTED DAY LIGHT SENSOR

S — LOW VOLTAGE WALL OCCUPANCY SENSOR

OC — LOW VOLTAGE CEILING OCCUPANCY SENSOR

nP — RELAY POWER PACK

JUNCTION BOX FOR DATA OUTLET MOUNTED AT 18" AFF WHEN SHOWN ON THE WALL AND MOUNTED ON THE FLOOR WHEN SHOWN ON TEH FLOOR. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.

ABBREVIATIONS

A, AMP	AMPERE
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARBM	AS REQUIRED BY MANUFACTURER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AMPERE TRIP
BCPS	BALTIMORE CITY PUBLIC SCHOOL
CB, C.B.	CIRCUIT BREAKER
C, COND	CONDUIT
C/T, CT	CURRENT TRANSFORMER
CU	COPPER
DET	DETAIL
DETAIL X/Y	DETAIL "X" ON DRAWING "Y"
DIA, Ø	DIAMETER
DWG	DRAWING
DISC	DISCONNECT
ELEC	ELECTRIC
EMT	ELECTRICAL METALLIC TUBING
EX., EXIST	EXISTING
FLA	FULL LOAD AMPERES
FR	FRAME
FU	FUSE
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID STEEL
HACR	HEATING, AIR CONDITIONING & REFRIGERATION
HP	HORSEPOWER
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
I/G	INSULATED GROUND CONDUCTOR
IG	ISOLATED GROUND
JB	JUNCTION BOX
KA	THOUSAND AMPERES
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MIL
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LTG	LIGHTING
LTS	LIGHTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MEMA	MARYLAND EMERGENCY MANAGEMENT AGENCY
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOSHA	MARYLAND OCCUPATIONAL SAFETY AND HEALTH ACT
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTERERS ASSOCIATION
NETA	INTERNATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NICET	NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
NTS	NOT TO SCALE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE
Ø, PH	PHASE
PNL	PANEL
RECEP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SPD	SURGE PROTECTIVE DEVICE
THRU	THROUGH
TP	TRIP
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
W	WATTS

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Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Engineer under the laws of the State of Maryland. License number 38316, Expiration Date: 01/05/2026

ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

3023 Garrison Blvd., Baltimore, MD 21216

AUGUST 29, 2025

BID SET

Revisions:

No.	Date	Description

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GENERAL NOTES, SYMBOL LISTS AND ABBREVIATIONS

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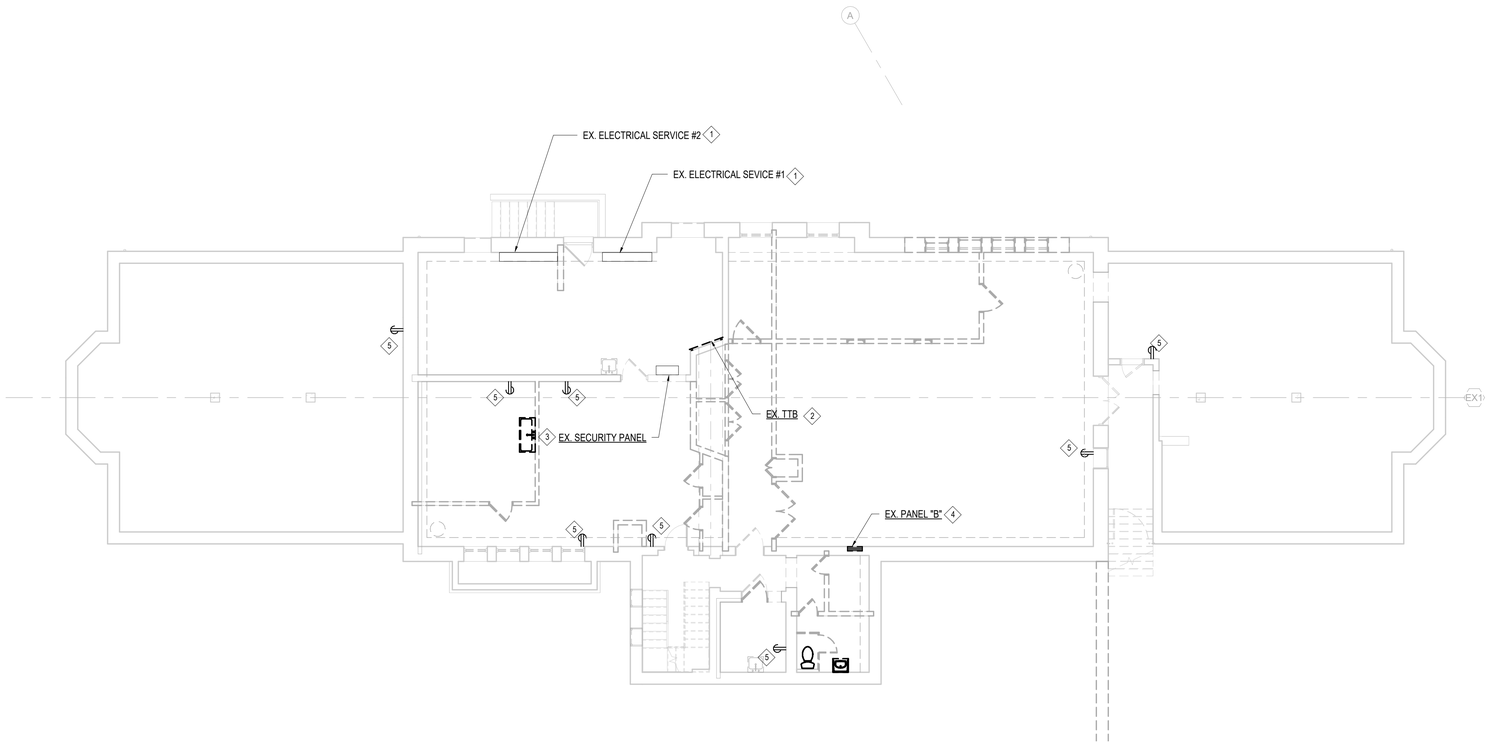

1 ED1.01 LOWER LEVEL FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

DRAWING NOTES: ◇

1. REMOVE EXISTING ELECTRICAL SERVICE AND ASSOCIATED WIRING ND CONDUIT BACK TO SOURCE. COORDINATE WITH BGE BEFORE REMOVING ELECTRICAL SERVICE.
2. REMOVE EXISITNG TELEPHONE TERMINAL BOARD, PATCH PANELS, WIRING, CABLE AND CONDUIT BACK TO SOURCE.
3. REMOVE EXISTING SECURITY SYSTEM PANEL AND ASSOCIATED WIRING, CABLE AND CONDUIT BACK TO SOURCE.
4. REMOVE EXISTING ELECTRICAL PANEL AND ASSOCIATED FEEDER, WIRING, AND CONDUIT BACK TO SOURCE.
5. REMOVE EXISTING RECEPTACLE AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.

GENERAL NOTES

1. NOT ALL ELECTRICAL DEVICES IN ARE SHOWN ON TE FLOOR PLAN. REMOVE ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTALCES, FIRE ALARM DEVICES, LIGHITNG, LIGHITNG CONTROL DEVICES, COMMUNICATION OUTLETS ETC. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
2. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN ON THE FLOOR PLAN. REMOVE ALL ELECTRICAL EQUIPMENT BUT NOT LIMITED TO PANELBOARDS, DISCONNECT SWITCHES ENCLOSED BREAKERS ETC. REMOVE ASSOCIATED FEEDERS AND CONDUIT BACK TO SOURCE.

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Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed Engineer under the laws of the State of Maryland. License number 38316, Expiration Date: 01/05/2026

ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

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LOWER LEVEL - ELECTRICAL DEMOLITION

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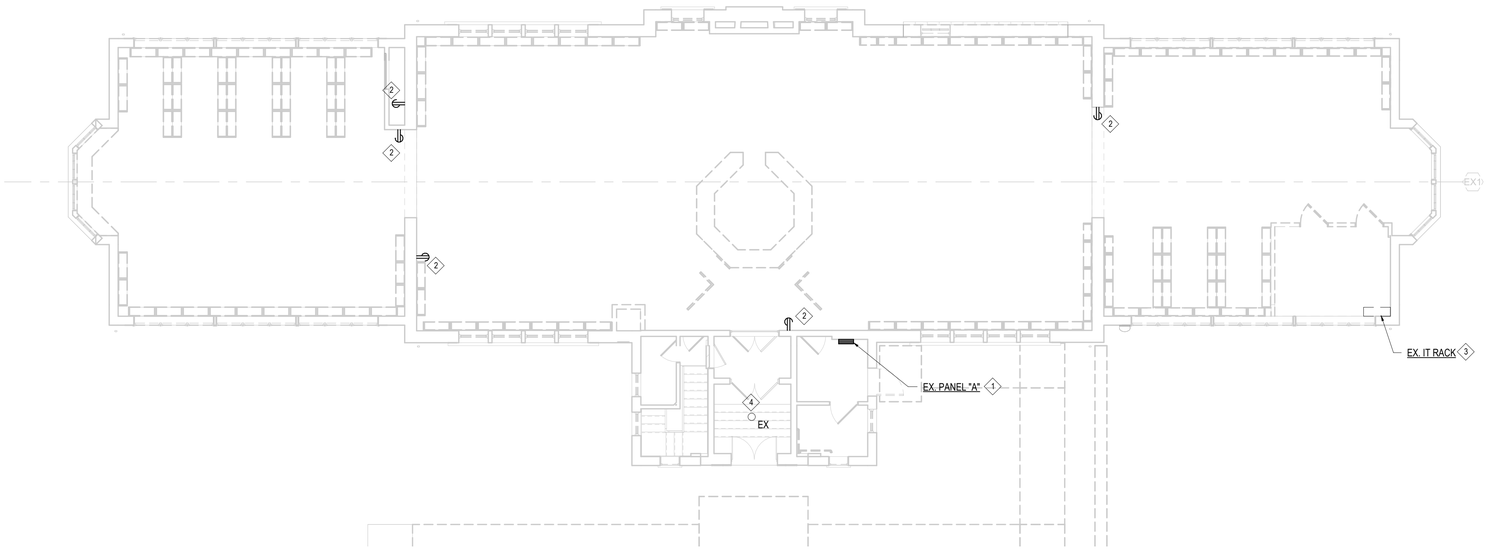

1 ED1.02 FIRST FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

DRAWING NOTES: ◇

1. REMOVE EXISTING ELECTRICAL PANEL AND ASSOCIATED FEEDER, WIRING, AND CONDUIT BACK TO SOURCE.
2. REMOVE EXISTING RECEPTACLE AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
3. REMOVE EXISTING IT RACK AND ASSOCIATE WIRING AND CONDUIT BACK TO SOURCE.
4. RXISTING LIGHTING TO REMAIN. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SURCE.

GENERAL NOTES

1. NOT ALL ELECTRICAL DEVICES IN ARE SHOWN ON TE FLOOR PLAN. REMOVE ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTALCES, FIRE ALARM DEVICES, LIGHTING, LIGHITNG CONTROL DEVICES, COMMUNICATION OUTLETS ETC. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
2. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN ON THE FLOOR PLAN. REMOVE ALL ELECTRICAL EQUIPMENT BUT NOT LIMITED TO PANELBOARDS, DISCONNECT SWITCHES ENCLOSED BREAKERS ETC. REMOVE ASSOCIATED FEEDERS AND CONDUIT BACK TO SOURCE.

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FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

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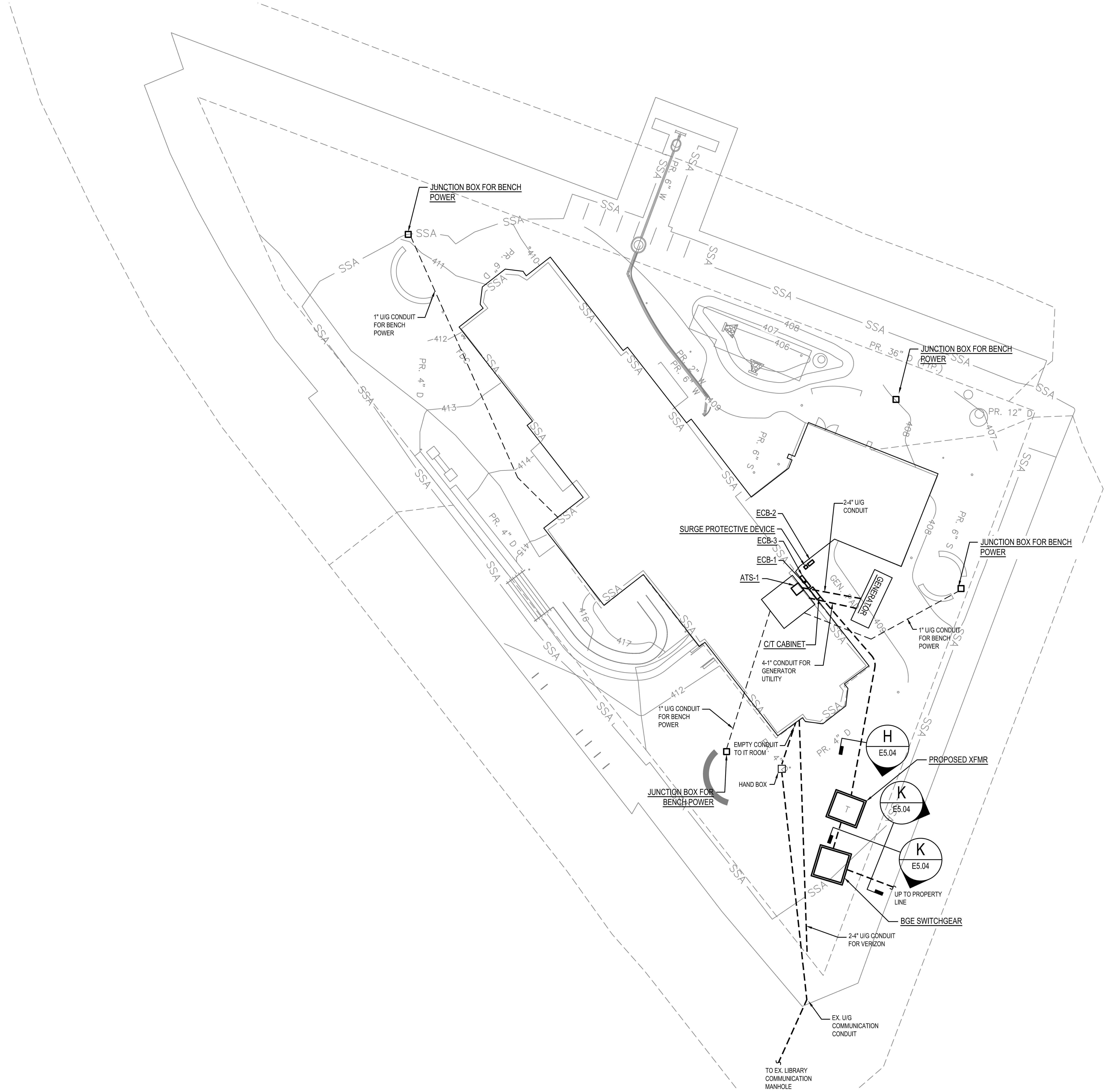

ELECTRICAL SITE PLAN

SCALE: 1/16" - 1'-0"

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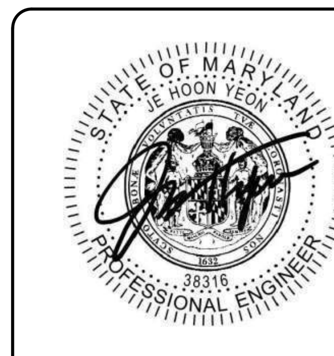

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ELECTRICAL SITE PLAN

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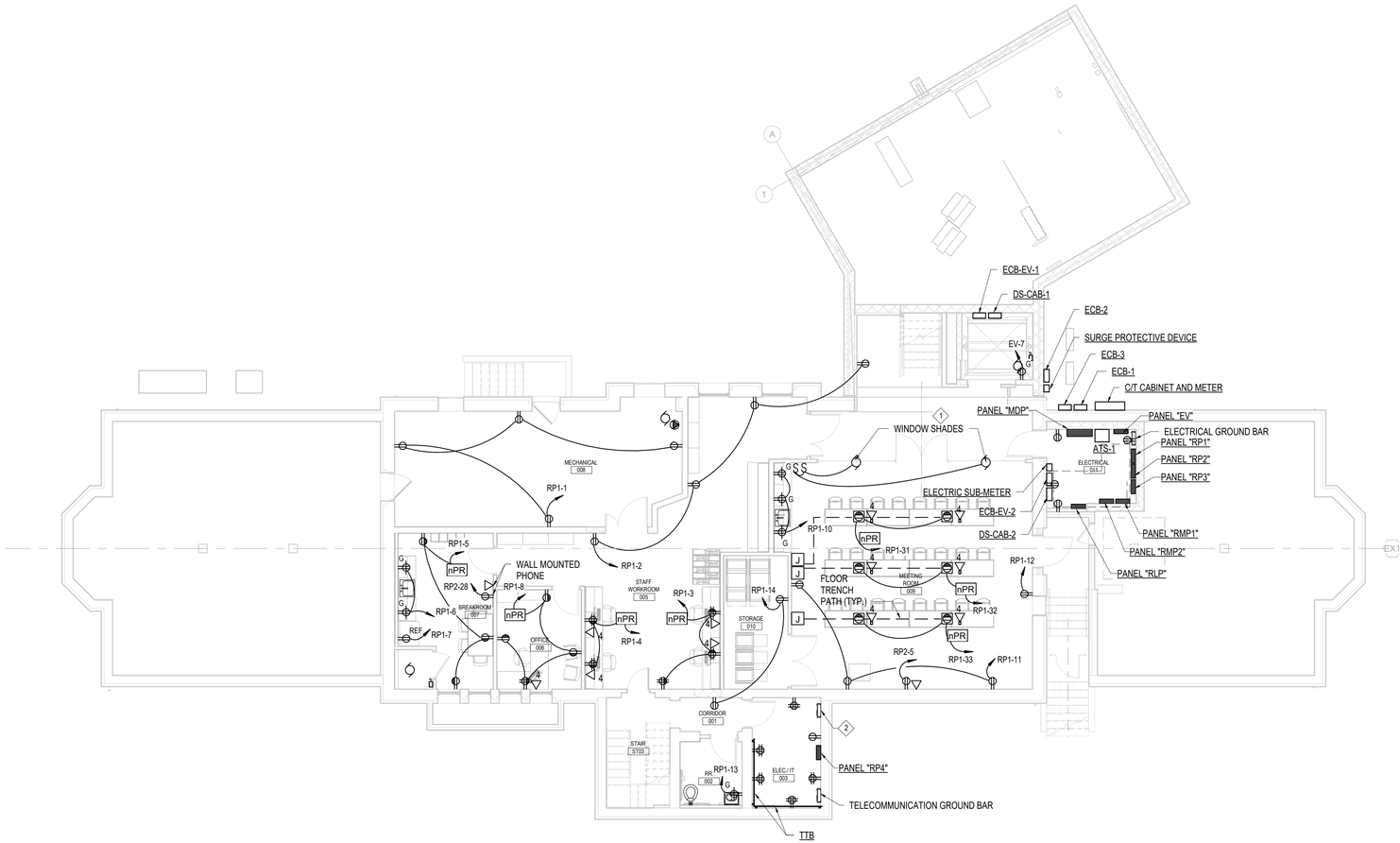
DRAWING NOTES: ◇

1. COORDINATE EXACT POWER CONNECTION LOCATION WITH MANUFACTURER. PROVIDE WIRING FROM CONTROL SWITCH TO POWER CONNECTION POINT IN ACCORDANCE WITH THE MANUFACTURER'S AND NEC'S REQUIREMENTS IN 3/4" CONDUIT. COORDINATE WITH MANUFACTURER AND PROVIDE RECEPTACLES PER MANUFACTURER'S REQUIREMENT. COORDINATE ALL WORK WITH MANUFACTURER'S INSTALLATION MANUAL.
2. LIGHTING RELAY PANEL, COMMUNICATION BRIDGES, AND SYSTEM CONTROLLER. COORDINATE WITH THE LIGHTING CONTROL SYSTEM DRAWINGS/SPECIFICATIONS AND THE MANUFACTURER FOR QUANTITY ND LOCATION OF EQUIPMENT.



1 / E1.01 LOWER LEVEL FLOOR PLAN - POWER
1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN - POWER

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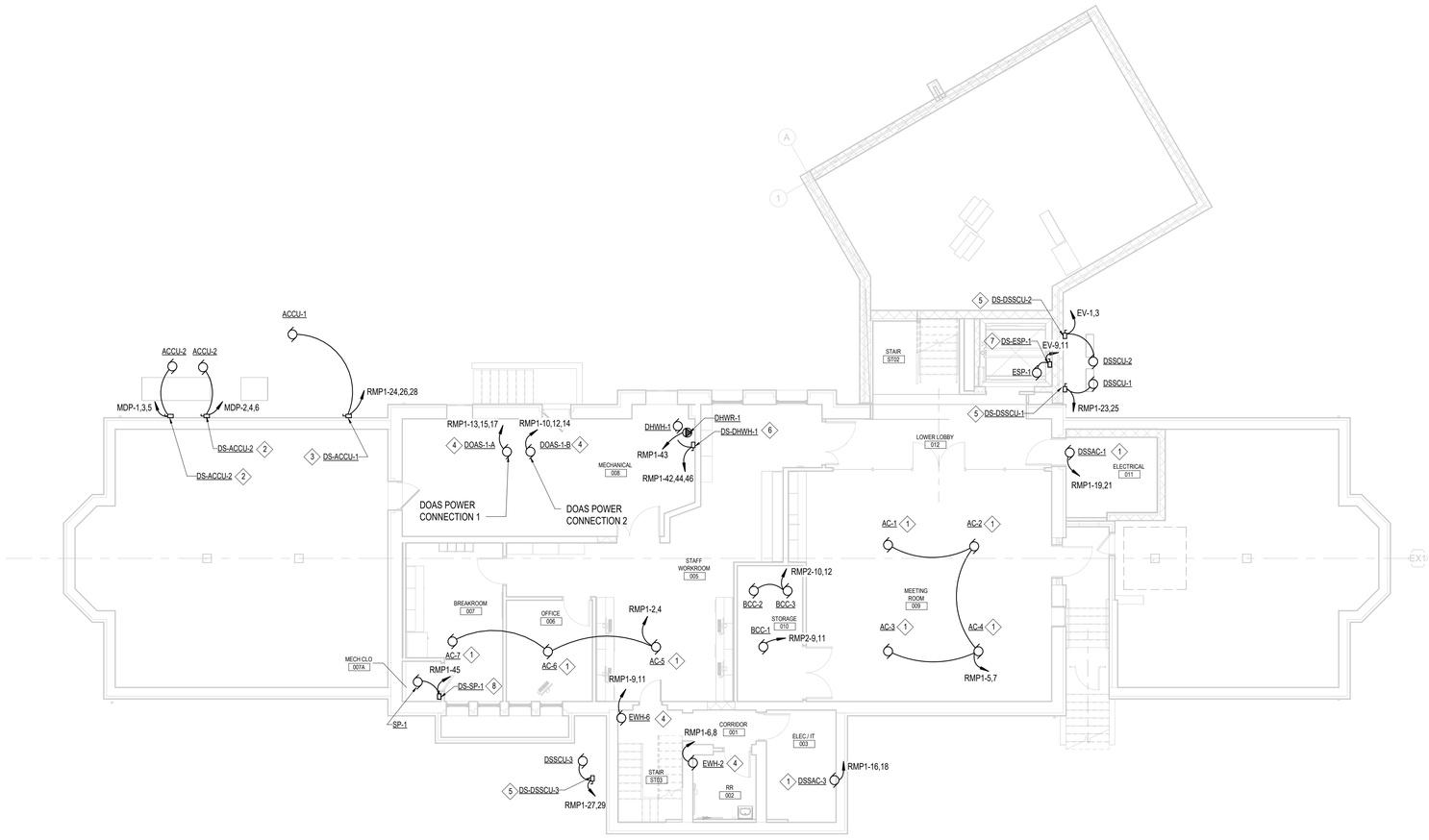

1 LOWER LEVEL FLOOR PLAN - HVAC POWER
E1.01A 1/8" = 1'-0"

DRAWING NOTES: ◇

1. PROVIDE 2 POLE TOGGLE SWITCH AT ACCESSIBLE CEILING SPACE.
2. 3 POLE, 240V, 100A, NON-FUSIBLE DISCONNECT WITH NEMA 3R ENCLOSURE.
3. 3 POLE, 240V, 60A, NON-FUSIBLE DISCONNECT WITH NEMA 3R ENCLOSURE.
4. UNIT HAS BUILT-IN DISCONNECT SWITCH.
5. 2 POLE, 240V, 30A, NON-FUSIBLE DISCONNECT WITH NEMA 3R ENCLOSURE.
6. 3 POLE, 240V, 60A, NON-FUSIBLE DISCONNECT WITH NEMA 1 ENCLOSURE.
7. 2 POLE, 240V, 30A, NON-FUSIBLE DISCONNECT WITH NEMA 1 ENCLOSURE.
8. PROVIDE SINGLE POLE TOGLE SWITCH FOR DISCONNECTING MEANS.

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LOWER LEVEL FLOOR PLAN - HVAC POWER

E1.01A

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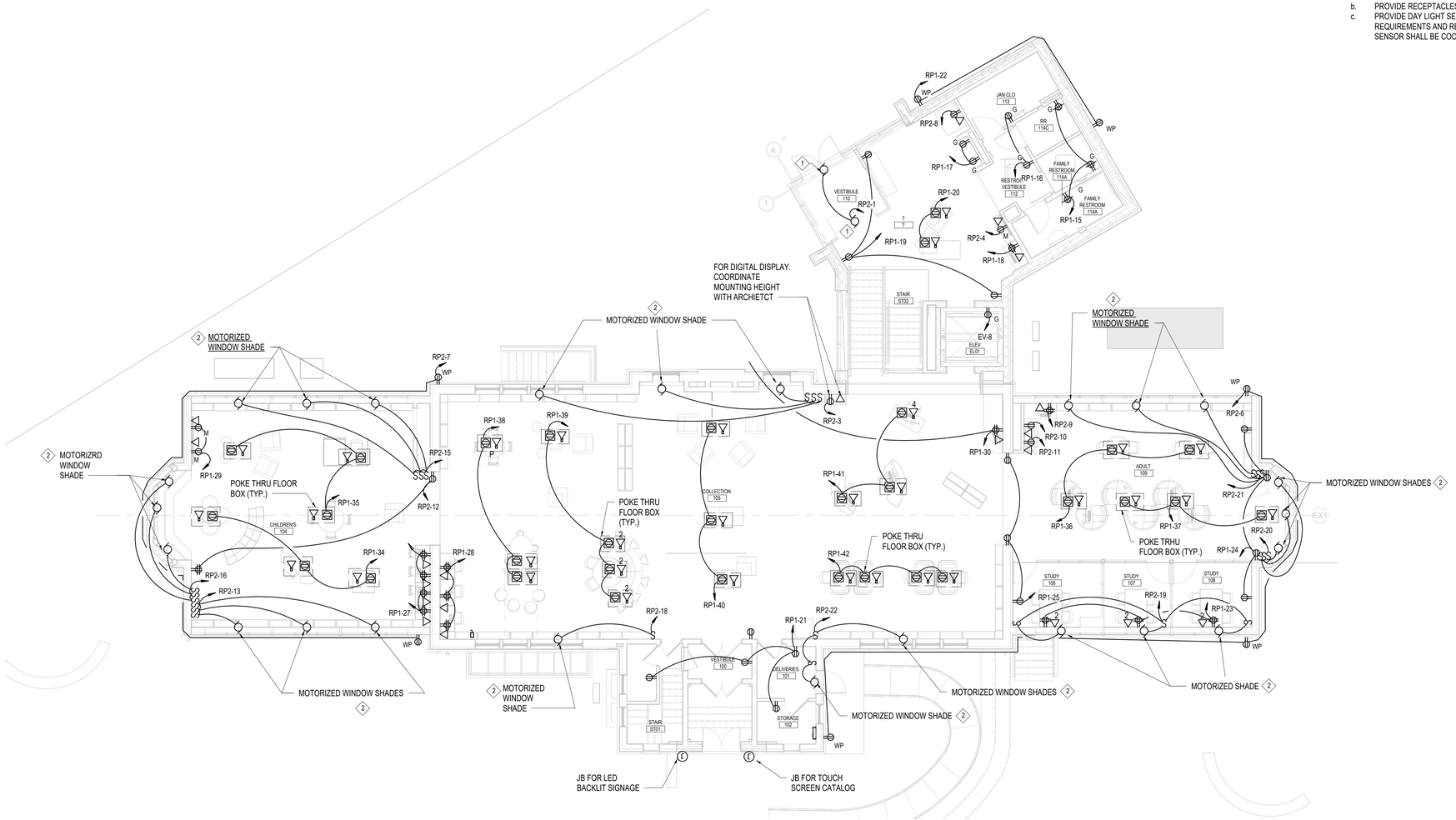
DRAWING NOTES: ◇

1. ADA ELECTRIC DOOR OPENER SYSTEM(COORDINATE EXACT LOCATION AT THE FIELD). PROVIDE POWER/CONTROL WIRING/CONDUIT TO INTERCONNECT SYSTEM COMPONENTS/ELEMENTSAND ASSOCIATED EQUIPMENT AS REQUIRED. FOR COMPLETE AND FULLY OPERATIONALSYSTEM. COORDINATE WITH THE SPECIFICATIONS ASSOCIATED WITH THE SYSTEM. PROVIDE POWER/CONTROL WIRING IN 3/4"C MINIMUM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, NEC REQUIREMENTS, AND THE CONTRACT DOCUMENTS. EXACT LOCATIOON OF ALL EQUIPMENT SHALL BE COORDINATED WITH THE MANUFACTURER.

2. MOTOTRIZED WINDOW SHADE. COORDINATE EXACT POWER CONNECTION LOCATION WITH MANUFACTURER. COORDINATE ALL WORK WITH MANUFACTURER. PROVIDE:

   a. WIRING FROM CONTROL SWITCH TO POWER CONNECTION POINT IN ACCORDANCE WITH THE MANUFACTURER'S AND NEC'S REQUIREMENTS IN 3/4" CONDUIT.
   b. PROVIDE RECEPTACLES PER MANUFACTURER'S REQUIREMENT.
   c. PROVIDE DAY LIGHT SENSORS, WIRINGS AND CONDUIT PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATION. EXACT LOCATION OF DAYLIGHT SENSOR SHALL BE COORDINATED WITH MANUFACTURER.



1 E1.02 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

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FIRST FLOOR PLAN - POWER

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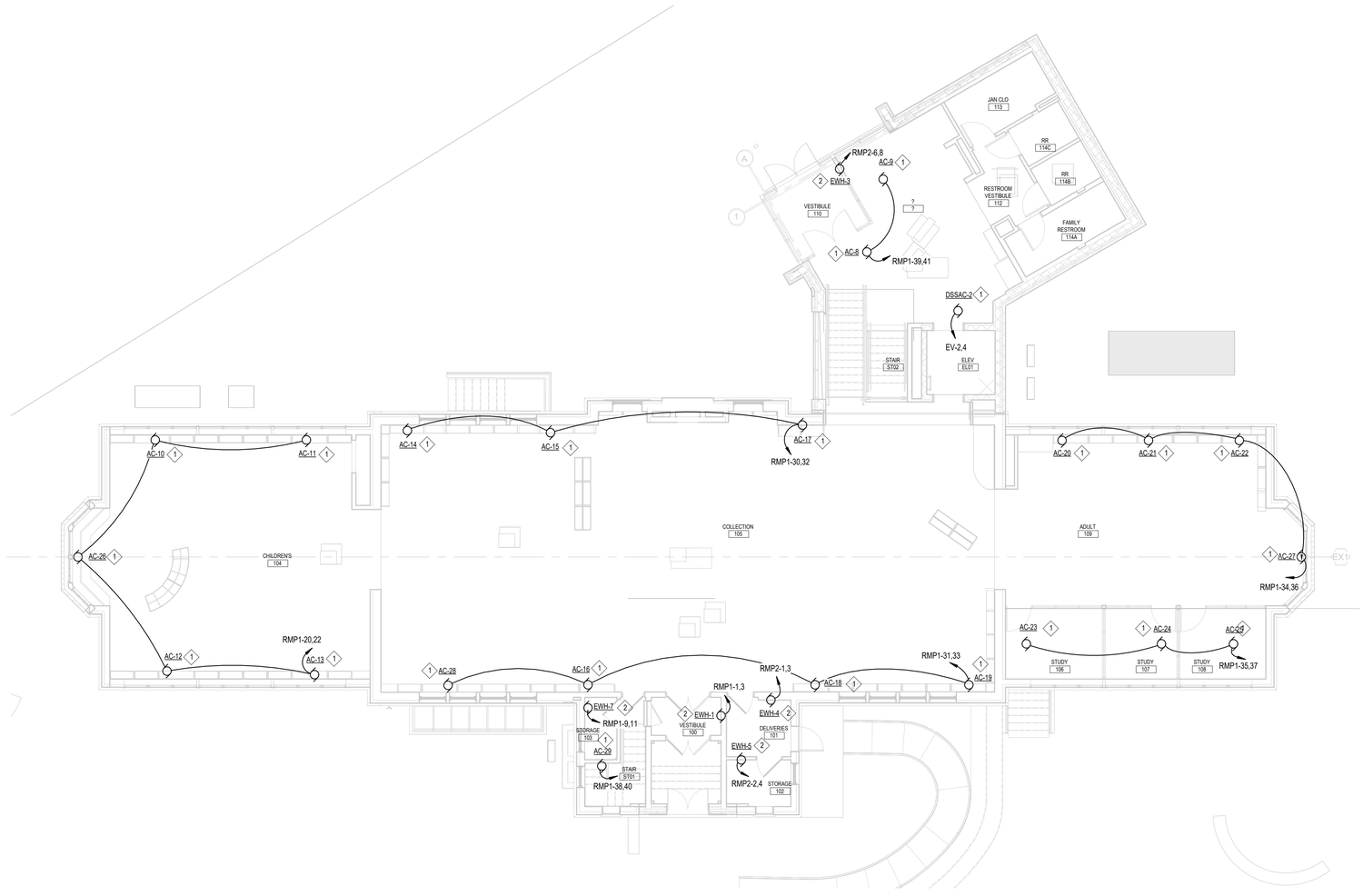

1 E1.02A FIRST FLOOR PLAN - HVAC POWER
1/8" = 1'-0"

DRAWING NOTES:

1. PROVIDE 2 POLE TOGGLE SWITCH AT ACCESSIBLE CEILING SPACE.
2. UNIT HAS BUILT-IN DISCONNECT SWITCH.
3. 2 POLE, 240V, 30A, NON-FUSIBLE DISCONNECT WITH NEMA 3R ENCLOSURE.

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FIRST FLOOR PLAN - HVAC POWER

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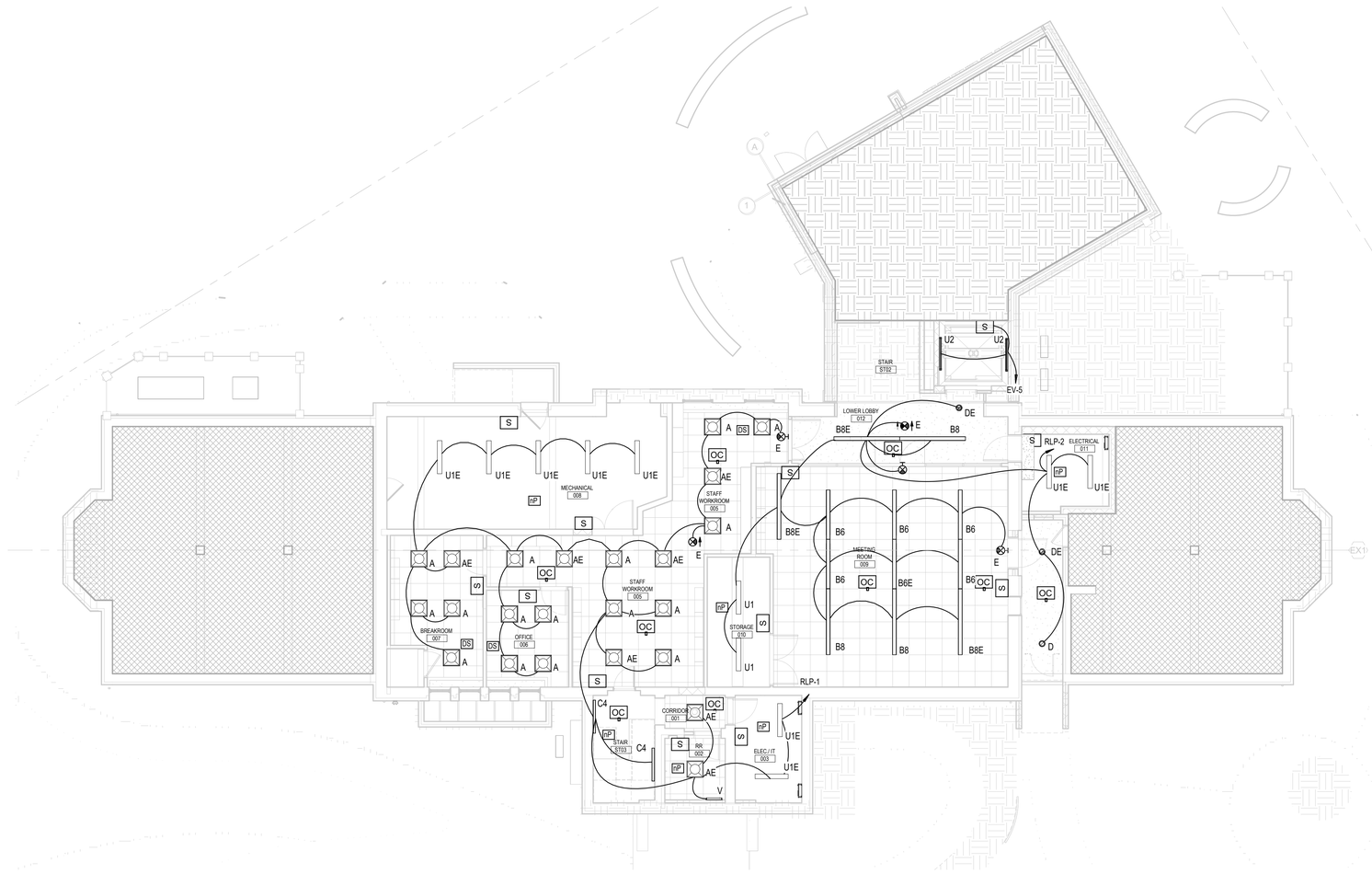
GENERAL NOTES:

1. PROVIDE UNSWITCHED "HOT" WIRES FOR BATTERY BACKUP TYPE EXIT SIGNS (SIGNS ARE CONTINUOUSLY ILLUMINATED WHETHER OR NOT THERE IS A POWER OUTAGE), IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

2. WHERE LIGHTING FIXTURES HAVE INTEGRAL BATTERY BACKUP, AND THE MANUFACTURER REQUIRES AN UNSWITCHED "HOT" WIRE IN ADDITION TO ANY OTHER WIRES, FOR PROPER OPERATIONOF THE LIGHTING FIXTURE (LIGHTING FIXTUREIS SWITCHED ON/OFF BY LIGHTING CONTROLS WHEN NORMAL POWER IS AVAILABLE, AND TURNS/REMAINS ON WHEN THERE IS A POWER OUTAGE), PROVIDE THE UNSWITCHED "HOT" WIRE (IN ADDITION TO ANY OTHER WIRES) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



1 / E2.01 LOWER LEVEL - LIGHTING
1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN - LIGHTING

E2.01

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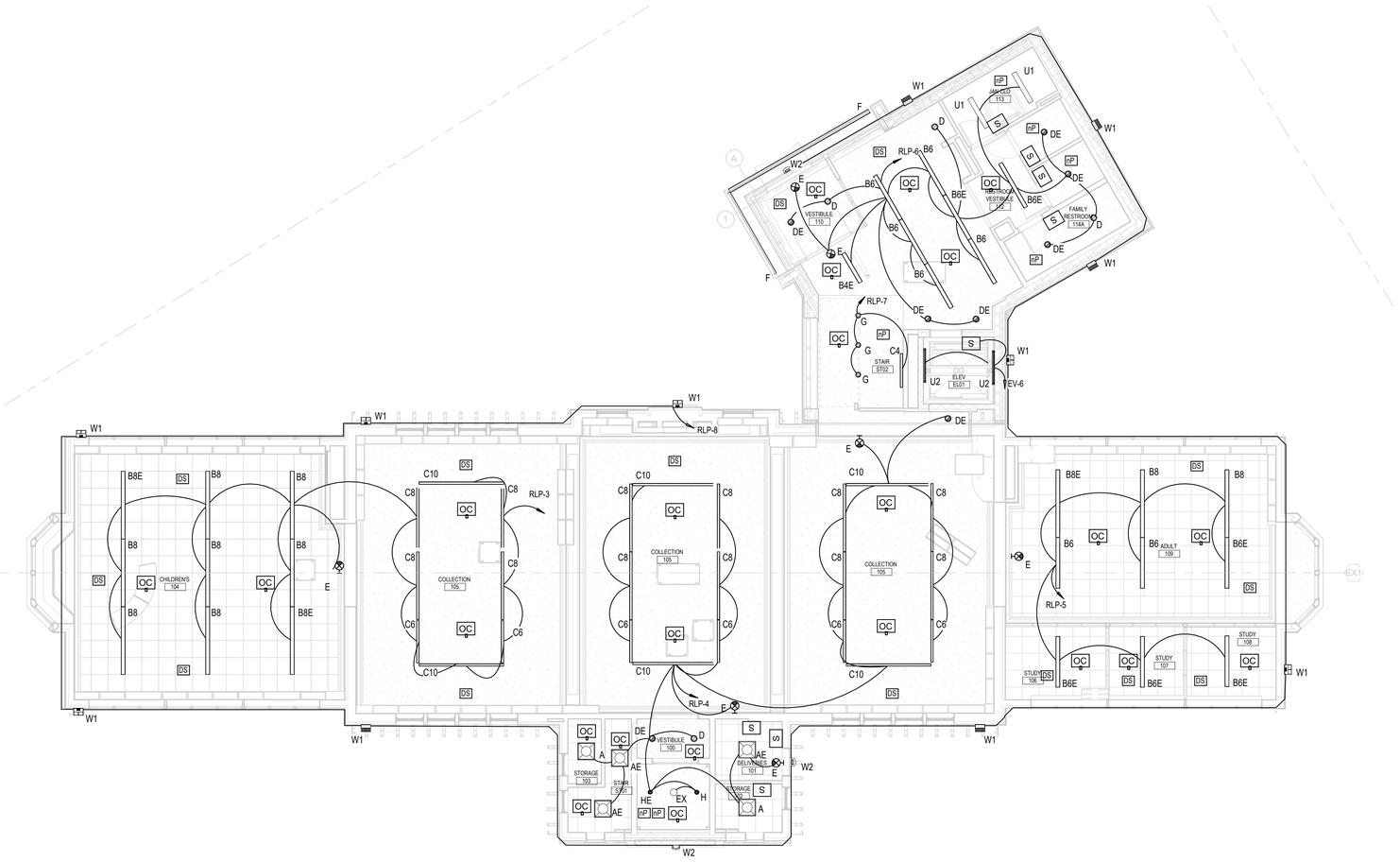
GENERAL NOTES:

1. PROVIDE UNSWITCHED "HOT" WIRES FOR BATTERY BACKUP TYPE EXIT SIGNS (SIGNS ARE CONTINUOUSLY ILLUMINATED WHETHER OR NOT THERE IS A POWER OUTAGE), IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
2. WHERE LIGHTING FIXTURES HAVE INTEGRAL BATTERY BACKUP, AND THE MANUFACTURER REQUIRES AN UNSWITCHED "HOT" WIRE IN ADDITION TO ANY OTHER WIRES, FOR PROPER OPERATIONOF THE LIGHTING FIXTURE (LIGHTING FIXTUREIS SWITCHED ON/OFF BY LIGHTING CONTROLS WHEN NORMAL POWER IS AVAILABLE, AND TURNS/REMAINS ON WHEN THERE IS A POWER OUTAGE), PROVIDE THE UNSWITCHED "HOT" WIRE (IN ADDITION TO ANY OTHER WIRES) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



1 E2.02 FIRST FLOOR - LIGHTING
1/8" = 1'-0"

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FIRST FLOOR PLAN - LIGHTING

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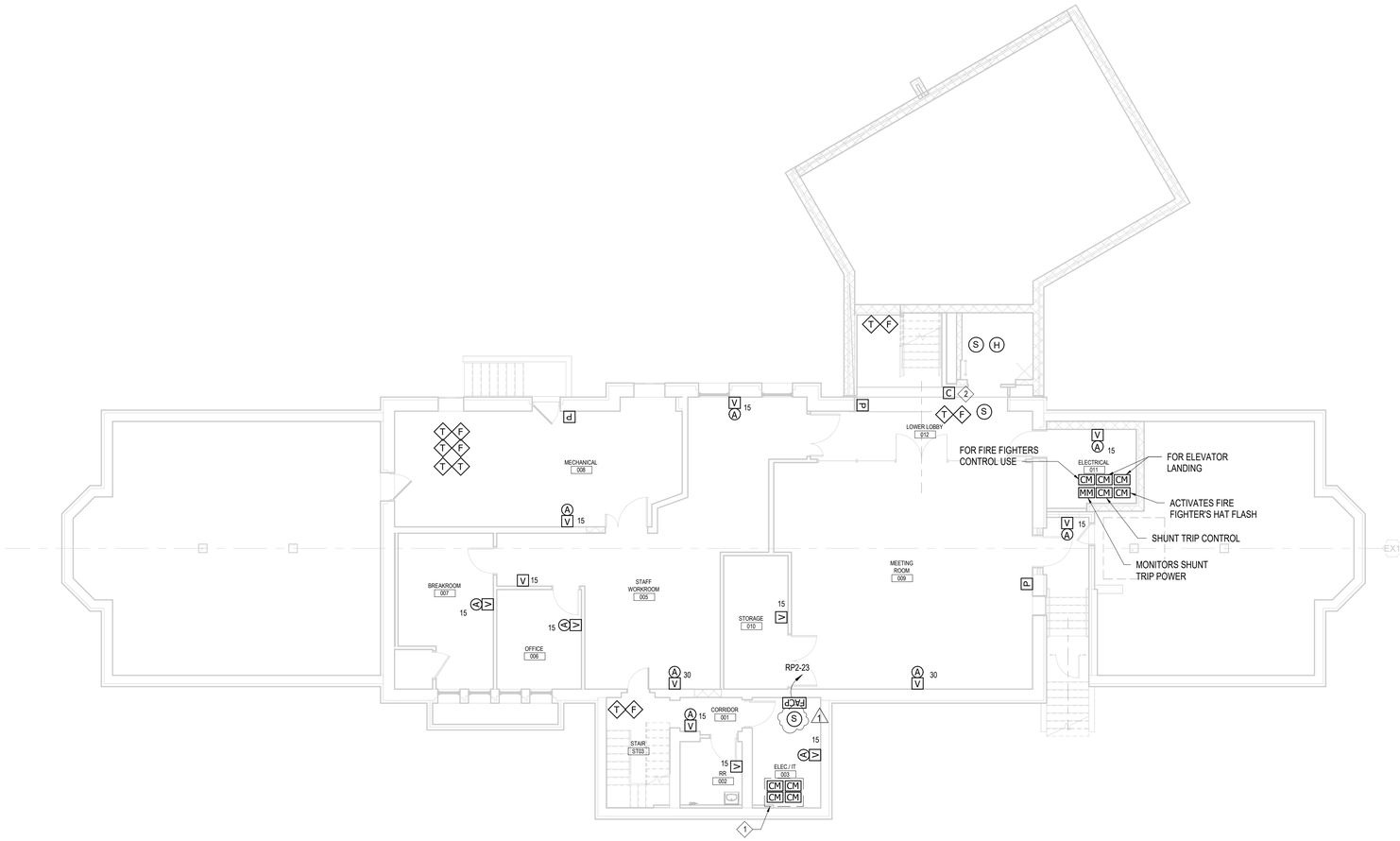
DRAWING NOTES: ◇

1. CONNECT CONTROL MODULE TO ACCESS CONTROL PANEL. CONTROL MODULE SHALL UNLOCK ALL ACCESS CONTROLLED DOORS WHEN THERE IS A FIRE ALARM.
2. TWO WAY COMMUNICATION RESCUE ASSISTANCE STATION WITH AUDIO VISUAL CAPABILITIES. CCORDINATE EXACT LOCATION WITH ARCHITECT AND LOCAL FIRE MARSHALL.



1 / E3.01 LOWER LEVEL FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

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LOWER LEVEL FLOOR PLAN - FIRE ALARM

E3.01

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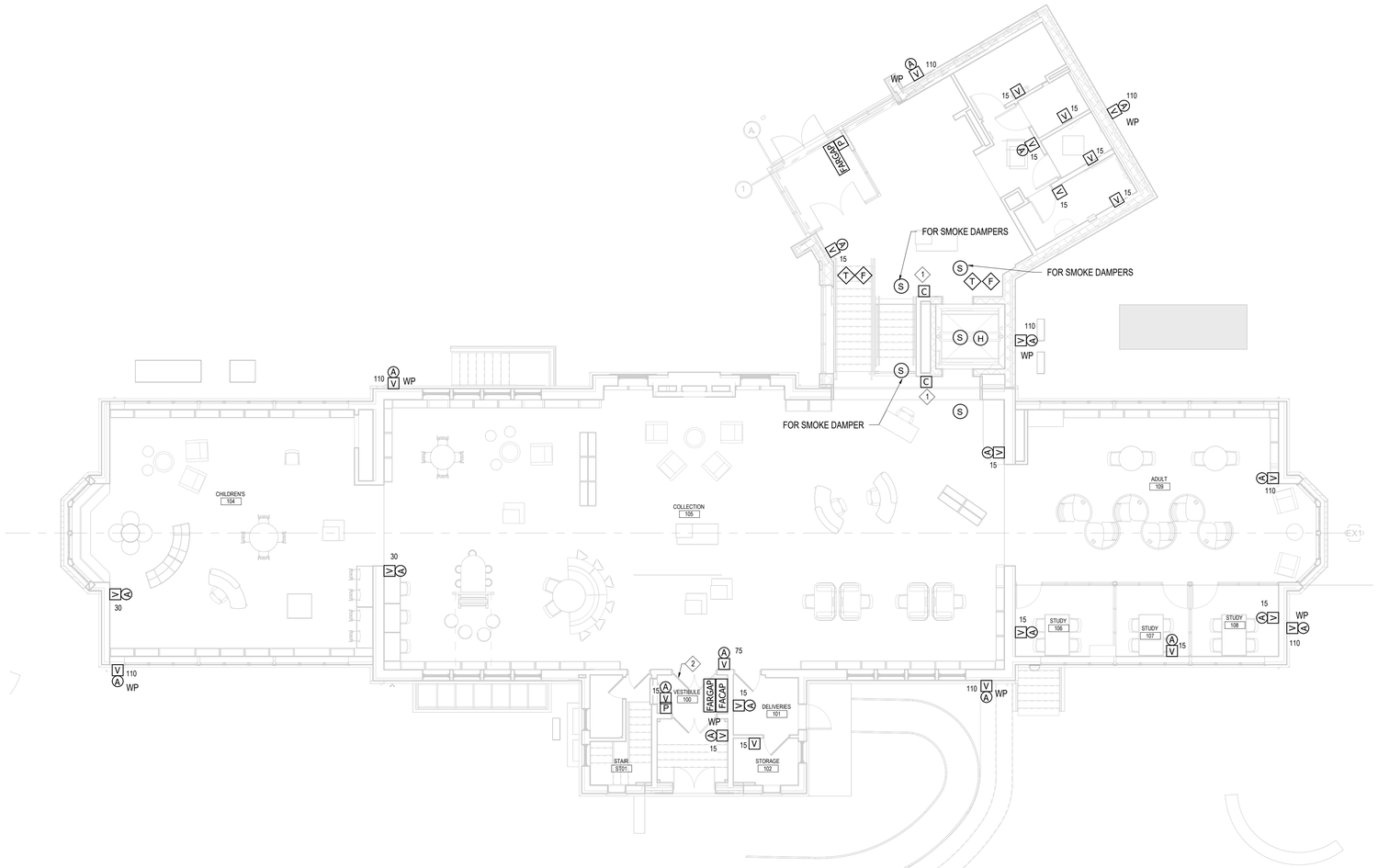
DRAWING NOTES: ◇

1. TWO WAY COMMUNICATION RESCUE ASSISTANCE STATION WITH AUDIO VISUAL CAPABILITIES. CCORDINATE EXACT LOCATION WITH ARCHITECT AND LOCAL FIRE MARSHALL.
2. FIRE ALARM TWO WAY COMMUNICATION ANNUNCIATOR. PROVIDE 1P, 120V, POWER THROUGH A BATTERY BACK-UP POWER SUPPLY. COORDINATE EXACT LOCATION WITH ARCHITECT AND LOCAL FIRE MARSHALL.



1 E3.02 FIRST FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

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FIRST FLOOR PLAN- FIRE ALARM

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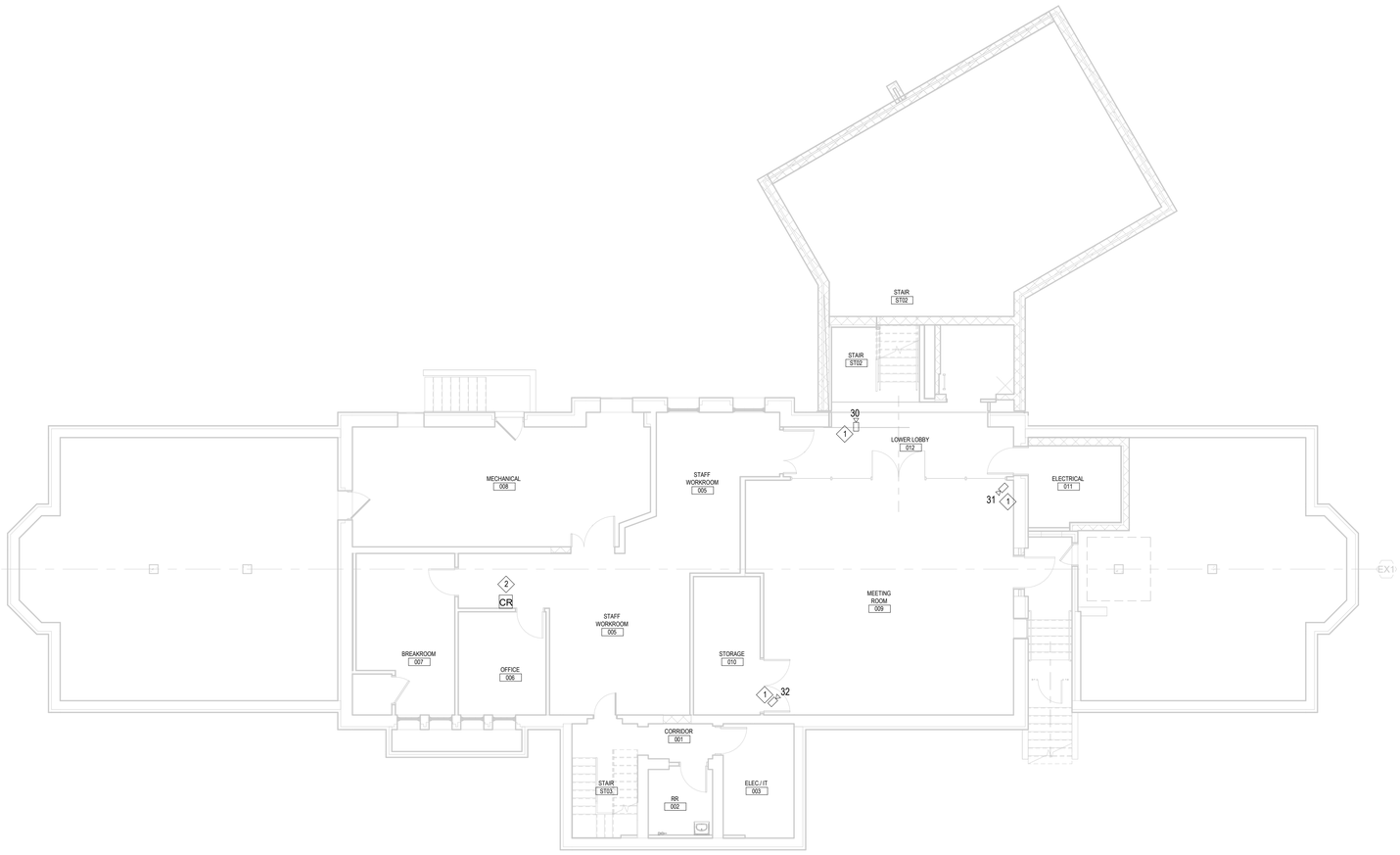

1 E3.03 LOWER LEVEL FLOOR PLAN - SPECIAL SYSTEMS
1/8" = 1'-0"

DRAWING NOTES

1. JUNCTION BOX FOR SECURITY CAMERA. PROVIDE 1" EMPTY CONDUIT WITH PULL WIRE FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.
2. JUNCTION BOX FOR CARD READER. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.

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LOWER LEVEL PLAN - SPECIAL SYSTEMS

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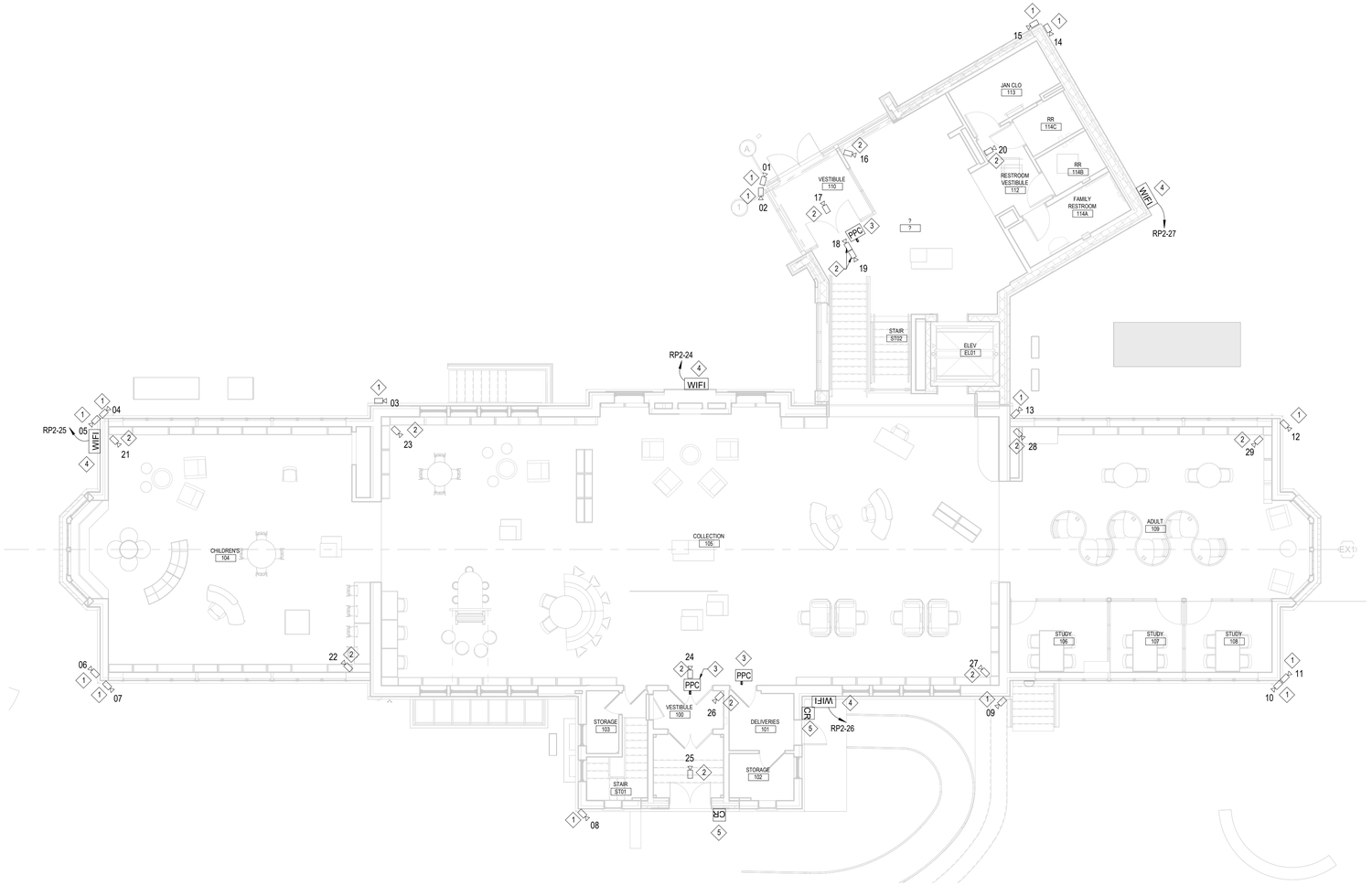

1 E3.04 FIRST FLOOR PLAN - SPECIAL SYSTEMS

1/8" = 1'-0"

DRAWING NOTES

1. WEATHER PROOF JUNCTION BOX FOR SECURITY CAMERA. PROVIDE 1" EMPTY CONDUIT WITH PULL WIRE FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.
2. JUNCTION BOX FOR SECURITY CAMERA. PROVIDE 1" EMPTY CONDUIT WITH PULL WIRE FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.
3. JUNCTION BOX FOR PEOPLE COUNTER. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.
4. WEATHER PROOF JUNCTION BOX FOR WIRELESS ACCESS POINT. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.
5. WEATHER PROOF JUNCTION BOX FOR CARD READER. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE.

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FIRST FLOOR PLAN - SPECIAL SYSTEMS

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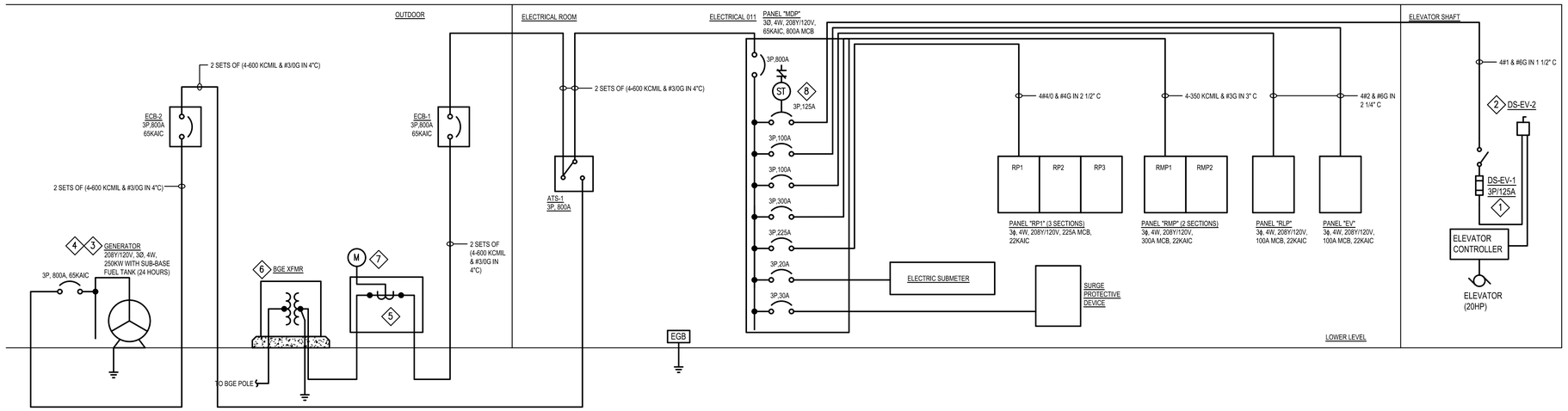

POWER ONE-LINE DIAGRAM

NOT TO SCALE

DRAWING NOTES

1. 3P, 240V, 200A, FUSIBLE DISCONNECT WITH NEMA 1 ENCLOSURE AND AUXILIARY CONTACT. COORDINATE FUSE SIZES WITH ELEVATOR MANUFACTURER. COORDINATE WITH FIRE ALARM CONTROL CONTRACTOR FOR FIRE ALARM CONNECTION.
2. 3 POLE, 240V, 200A, FUSIBLE DISCONNECT (LOCKABLE IN THE OPEN POSITION) WITH NEMA 3R ENCLOSURE AND AUXILIARY CONTACT. PROVIDE 3 FUSES. FUSE SIZE SHALL BE PER NEC AND ELEVATOR MANUFACTURER.
3. THE BASE-MOUNTED FUEL TANK OF THE DIESEL GENERATOR IS A UL 142 LISTED ABOVEGROUND STORAGE TANK (AST), THE ABOVEGROUND STORAGE TANK (AST)SHALL BE DESIGNED IN ACCORDANCE WITH UL 142
4. THE GENERATOR SHALL CONSUME NOT MORE THAN 30 GALLONS OF FUEL PER HOUR AT 100 PERCENT RATED POWER OUTPUT. THE MINIMUM AND MAXIMUM FUEL CAPACITY OF THE BASE-MOUNTED FUEL TANK SHALL BE AS FOLLOWS:
   - A. MINIMUM FUEL TANK CAPACITY: THE FUEL TANK SHALL HAVE A FUEL CAPACITY TO ALLOW THE GENERATOR TO RUN FOR NOT LESS THAN 24 HOURS OF CONTINUOUS OPERATION AT 100 PERCENT OF THE GENERATOR RATED POWER OUTPUT.
   - B. MAXIMUM FUEL TANK CAPACITY: THE FUEL TANK SHALL HAVE A FUEL CAPACITY OF NOT MORE THAN 900 GALLONS.
5. CT CABINET, 208V, 3Ø, 4W, 800A, 65KAIC, NEMA 3R ENCLOSURE PER BGE. SUBMIT C/T CABINET SUBMITTAL TO BGE FOR REVIEW AND APPROVAL.
6. COORDINATE THE LOCATION OF UTILITY TRANSFORMER, GROUNDING AND PAD REQUIREMENTS WITH LOCAL UTILITY. PROVIDE GROUNDING AND PAD.
7. UTILITY METER SOCKET, NEMA 3R. COORDINATE LOCATION OF METER WITH LOCAL UTILITY. PROVIDE 1 1/2" FROM CT TO METER SOCKET ENCLOSURE. SUBMIT METER SOCKET SHOP DRAWING TO BGE FOR REVIEW AND APPROVAL.
8. SHUNT TRIP BREAKER WITH AUXILIARY CONTACT FOR ELEVATOR. SEE "ELEVATOR SHUNT TRIP CONTROL DETAIL" FOR SHUNT TRIP WIRING DETAIL.

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POWER ONE-LINE DIAGRAM

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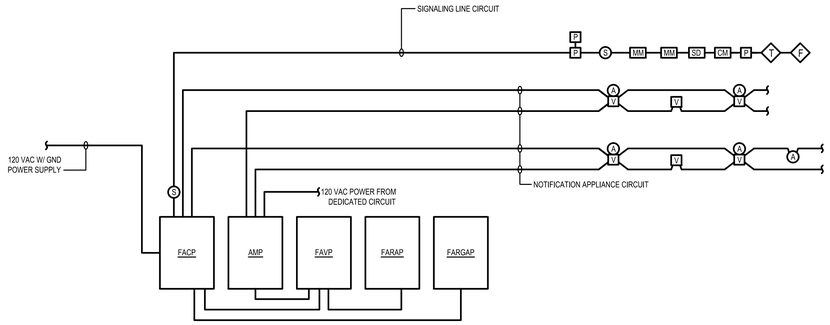
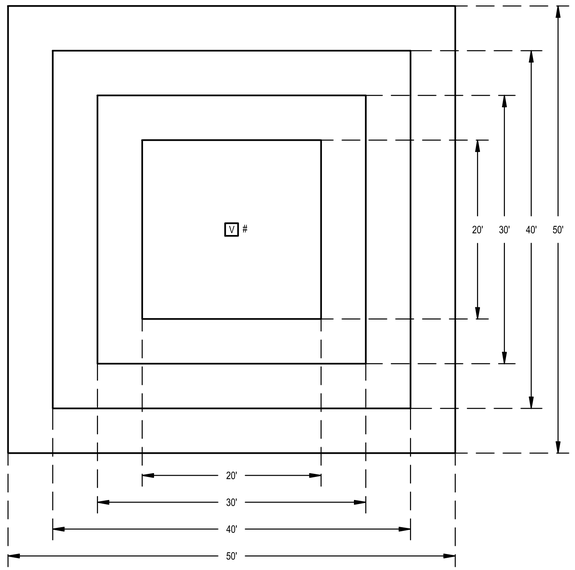


FIRE ALARM NOTES:

1. COMPLY WITH THE REQUIREMENTS OF NFPA 70 (NEC), NFPA 72 (NATIONAL FIRE ALARM CODE), INTERNATIONAL BUILDING CODE, FEDERAL/STATE/LOCAL CODES, THE FIRE MARSHALL, THE MANUFACTURER AND THE AUTHORITY HAVING JURISDICTION.
2. EQUIPMENT SHALL BE UL LISTED AND SHALL COMPLY WITH THE REQUIREMENTS OF NFPA.
3. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER, COMPLY WITH THE REQUIREMENTS OF THE MANUFACTURER AND THE FOLLOWING:
   3.1. ALL FIRE ALARM, COMMUNICATIONS, AND COAXIAL CABLES, AND ALL CLASS 2 POWER LIMITED CIRCUITS SHALL COMPLY WITH ARTICLE 725, ARTICLE 760, ARTICLE 800, ARTICLE 810, ARTICLE 820, ARTICLE 830, AND OTHER APPLICABLE ARTICLES OF THE NATIONAL ELECTRICAL CODE. PLENUM RATED, RISER RATED AND GENERAL-PURPOSE COMMUNICATIONS AND COAXIAL SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. CABLES SHALL BE SUITABLE FOR THEIR INTENDED USE. SECURE AND SUPPORT CABLE AT INTERVALS NOT EXCEEDING 3 FEET, OR BY THE MANUFACTURER'S REQUIREMENT, WHICHEVER IS LESS. CABLE SHALL RUN IN CONDUIT, 3/4" TRADE SIZE MINIMUM, UNDER THE FOLLOWING CONDITIONS: WHERE SUBJECT TO PHYSICAL DAMAGE; WHERE INSTALLED OUTDOORS OR WET LOCATIONS; WHERE EXPOSED; WHERE CONCEALED IN CONCRETE OR BLOCK WALLS; AND WHERE REQUIRED BY THE NEC.
   3.2. ALL OTHER CABLES AND CIRCUITS SHALL RUN IN CONDUIT, 3/4" TRADE SIZE MINIMUM.
4. DEVICES SHOWN ON TYPICAL FIRE ALARM RISER DIAGRAM ARE FOR INTENT ONLY AND DO NOT INDICATE THE EXACT NUMBER OF DEVICES ON EACH FLOOR. SEE FLOOR PLANS FOR NUMBERS OF DEVICES.
5. SEE FIRE ALARM SPECIFICATION FOR MORE INFORMATION FOR REQUIREMENTS.
6. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE WIRED TOGETHER FOR A COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM.
7. COORDINATE EXACT LOCATION OF FIRE ALARM CONTROL AND MONITORING DEVICES WITH EQUIPMENT INSTALLED IN THE FIELD.
8. SEE FIRE ALARM SPECIFICATIONS FOR REQUIREMENTS AND DETAILS FOR THE FIRE ALARM REMOTE ANNUNCIATOR PANEL (FARAP)
9. PROVIDE EQUIPMENT, PROGRAMMING, HARDWARE, AND ACCESSORIES TO IMPLEMENT THIS SCHEME, INCLUDING, BUT NOT LIMITED TO: FIRE ALARM CONTROL MODULES, FIRE ALARM RELAYS, WIRING, ETC. ALL ITEMS PROVIDED SHALL BE UL LISTED AND SUITABLE FOR THE INTENDED USE.
10. PROVIDE AN INSTRUCTION SIGN AT THE FIRE ALARM CONTROL PANEL THAT DESCRIBES HOW TO RESET THE FIRE ALARM CONTROL PANEL AFTER AN ALARM CONDITION HAS BEEN CLEARED. THIS INCLUDES ALARM CONDITIONS THAT WERE INITIATED BY THE OTHER FIRE ALARM CONTROL PANEL.
11. FIRE ALARM SYSTEM SHALL BE WIRED AS A TRUE CLASS "B" SYSTEM. OUTGOING AND RETURN CIRCUIT CABLES SHALL NOT BE RUN IN SAME CONDUIT. PROVIDE MINIMUM SEPARATION DISTANCE BETWEEN OUTGOING AND RETURN CONDUIT REQUIRED PER NFPA.
12. ALL CONDUITS AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC.
13. SUBMIT FIRE ALARM SYSTEM PLANS PREPARED BY FIRE ENGINEER AND CUT-SHEETS OF ALL FIRE ALARM DEVICES/EQUIPMENT TO BE USED TO LOCAL FIRE MARSHAL AND PERMIT DEPARTMENT FOR REVIEW AND APPROVAL. PROVIDE ALL HARDWARES/SOFTWARE AND ACCESSORIES PER FIRE MARSHAL'S REQUIREMENTS.
14. BATTERY BACKUP:
    14.1. THE ENTIRE FIRE ALARM SYSTEM SHALL HAVE A BATTERY BACKUP SYSTEM. BATTERIES SHALL BE SIZED FOR 24 HOURS OF STANDBY FOLLOWED BY 15 MINUTES OF ALARM. PROVIDE AN ADDITIONAL 20% SPARE BATTERY CAPACITY ON TOP OF THAT. WHERE LOCAL CODES, THE FIRE MARSHAL, OR THE AUTHORITY HAVING JURISDICTION HAVE A LONGER BATTERY BACKUP REQUIREMENT, THE LONGER BATTERY BACKUP REQUIREMENT SHALL APPLY.
15. DUCT SMOKE DETECTOR SHALL COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING TUBES SO THEY EXTEND THE FULL WIDTH OF DUCT.
16. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS SHALL BE GROUNDED PER IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNITS.
17. THE DEVICES SHOWN ON THE RISER DIAGRAM ARE REPRESENTATIVE OF THOSE TO BE PROVIDED THROUGHOUT THE BUILDING. THEY ARE NOT INTENDED TO SHOW TOTAL QUANTITIES OF DEVICES. THE CONTRACTOR SHALL REFER TO THE FLOOR PLANS FOR THIS INFORMATION.
18. THE TYPE OF DEVICES WILL DEPEND ON THE MANUFACTURER'S EQUIPMENT. NOTHING IN THE DESIGN DOCUMENTS IS INTENDED, NOR SHOULD IT BE CONSTRUED, TO LIMIT THE TYPES OF DEVICES THAT MAY BE USED, PROVIDED THE INTENDED SYSTEM PERFORMANCE IS ACHIEVED AND WITHIN THE UL LISTING.
19. ADDRESSABLE INTERFACE MODULES ARE REQUIRED FOR NON-ADDRESSABLE INITIATING AND INDICATING DEVICES FOR CONNECTION TO THE FIRE ALARM SYSTEM.
20. PAGING ZONES SHALL BE ELEVATOR GROUPS, EXIT STAIRWAYS, AND EACH FLOOR PER IBC 2012 SECTION 907-5.2.2.
21. THE SIGNALING LINE CIRCUIT MAY BE T-TAPPED, PROVIDED THE LOCATION OF THE T-TAP IS CLEARLY SHOWN ON THE SHOP DRAWINGS, IS PERFORMED IN A JUNCTION BOX, AND IS MADE WITH A TERMINAL STRIP. PIGTAILING IS NOT PERMITTED.
22. FACP SHALL HAVE A 150% SPARE AMPLIFIER CIRCUIT.
23. FIRE ALARM SYSTEM SHALL BE MADE COMPLETE AND FULLY OPERATIONAL, AND SHALL HAVE SPARE CAPACITY AND CIRCUITS FOR FUTURE FIRE ALARM DEVICES/EQUIPMENT.
24. PROVIDE CELLULAR DIALER. COORDINATE WITH OWNER FOR SELECTED CELLULAR PROVIDER.

A E5.2 FIRE ALARM SYSTEM RISER DIAGRAM - VOICE SYSTEM

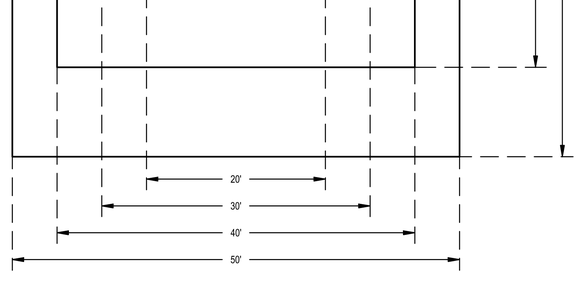
NOT TO SCALE



LENS MOUNTING HEIGHT (FT)	10'	20'	30'
MAXIMUM ROOM DIMENSIONS (FT X FT)	MINIMUM REQUIRED LIGHT OUTPUT (cd)		
20' X 20'	15	30	55
30' X 30'	30	45	75
40' X 40'	60	75	95
44' X 44'	75	75	95
46' X 46'	95	30	95
50' X 50'	95	95	95
53' X 53'	110	110	110
55' X 55'	115	115	115
59' X 59'	135	135	135
63' X 63'	150	150	150
68' X 68'	177	177	177
70' X 70'	185	185	185

B E5.2 CEILING MOUNTED VISIBLE APPLIANCE SPACING TEMPLATE

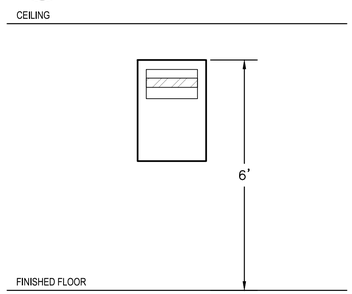
NOT TO SCALE



MAXIMUM ROOM DIMENSIONS (FT X FT)	MINIMUM REQUIRED LIGHT OUTPUT (cd)
20' X 20'	15
30' X 30'	30
40' X 40'	75
50' X 50'	110

C E5.2 WALL MOUNTED VISIBLE APPLIANCE SPACING TEMPLATE

NOT TO SCALE



1. FOR BLOCK WALLS - COORDINATE MOUNTING HEIGHT WITH TOP COURSE OF BLOCK NEAREST 6 FEET AFF.
2. REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR MOUNTING THE BOX BASED ON THE WALL TYPE.

D E5.2 FIRE ALARM ANNUNCIATOR, NAC, OR AMP PANEL MOUNTING DETAIL

NOT TO SCALE

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STATE OF MARYLAND
STEVEN HOON YEOH
38316
PROFESSIONAL ENGINEER

Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Engineer under the laws of the State of Maryland. License number 38316, Expiration Date: 01/05/2026

ADDITION & RENOVATION FOR ENOCH PRATT FREE LIBRARY FOREST PARK BRANCH

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AUGUST 29, 2025

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FIRE ALARM RISER AND DETAILS

E5.02

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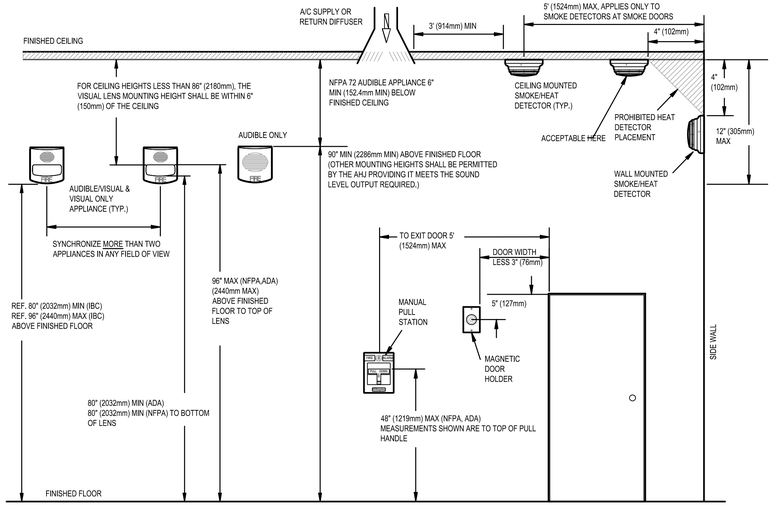


A E5.3 **FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHT DETAIL**

NOT TO SCALE

SYSTEM OUTPUTS

		A: ACTUATE FACP TROUBLE LAMP	B: ACTUATE FACP AUDIBLE TROUBLE SIGNAL	C: ACTUATE FACP SUPERVISORY LAMP	D: ACTUATE FACP AUDIBLE SUPERVISORY SIGNAL	E: ACTUATE FACP ALARM LAMP	F: ACTUATE FACP AUDIBLE ALARM SIGNAL	G: ACTUATE REMOTE ANNUNCIATOR PANEL	H: EVACUATION SIGNAL TO ALL BUILDING AREAS	I: DISPLAY CHANGE OF STATUS	J: TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATIONS	K: TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATIONS	L: TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATIONS	M: SHUT DOWN ASSOCIATED AIR HANDLER	N: DE-ENERGIZE DOOR HOLD-OPEN DEVICE	O: CLOSE ASSOCIATED SMOKE DAMPER	
1	ANY GENERAL BUILDING DETECTOR IN TROUBLE	X	X					X		X	X						1
2	ANY GENERAL BUILDING DETECTOR IN ALARM					X	X	X	X	X			X				2
3	ANY GENERAL BUILDING MANUAL PULL STATION IN ALARM					X	X	X	X	X			X				3
4	ANY DUCT DETECTOR IN ALARM			X	X			X		X		X		X		X	4
5	FIRE ALARM AC POWER FAILURE			X	X			X		X		X					5
6	FIRE ALARM SYSTEM LOW BATTERY	X	X					X		X	X						6
7	OPEN CIRCUIT	X	X					X		X	X						7
8	GROUND FAULT	X	X					X		X	X						8
9	NOTIFICATION APPLIANCE CIRCUIT SHORT	X	X					X		X	X						9
10	ANY TROUBLE ALARM	X	X					X		X	X						10
11	SMOKE DETECTOR ADJACENT TO DOOR HOLD-OPEN					X	X	X	X	X			X		X		11
12	KITCHEN HOOD EXTINGUISHING SYSTEM ACTIVATION					X	X	X	X	X			X				12
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	

B E5.3 **FIRE ALARM MATRIX OF OPERATION**

NOT TO SCALE

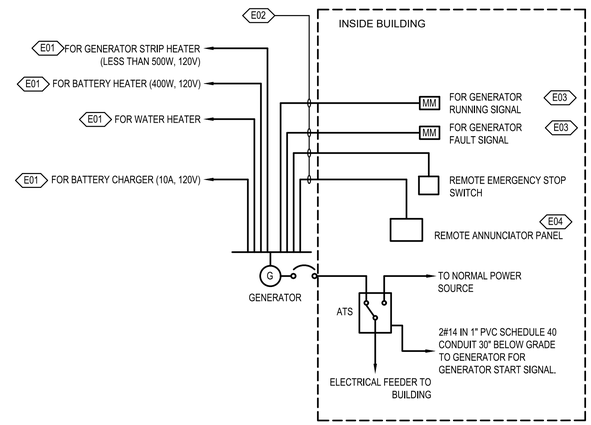


DIAGRAM NOTES:

E01 SEE PLAN DRAWINGS AND PANEL SCHEDULES FOR ELECTRICAL BRANCH CIRCUIT REQUIREMENTS.

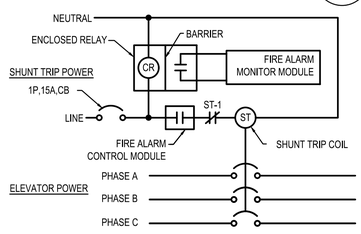
E02 PROVIDE CONTROL WIRING AS RECOMMENDED BY THE MANUFACTURER IN CONDUIT. SEE PLAN DRAWINGS FOR SIZE OF CONDUIT.

E03 SIGNALS MONITORED BY THE FIRE ALARM SYSTEM.

E04 POWERED BY DC VOLTAGE FROM THE GENERATOR.

GENERATOR POWER AND CONTROL DIAGRAM (ALTERNATE #1)

NOT TO SCALE

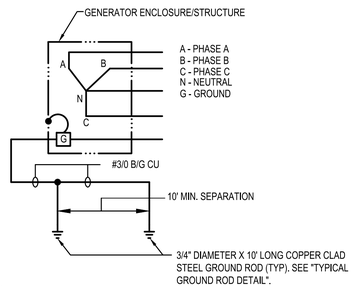


NOTES:

1. WIRING CONFIGURATION SHOWN IS BASED ON THE EQUIPMENT SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WIRING CONFIGURATION CHANGES DUE TO A SUBSTITUTION.
2. GROUND WIRE NOT SHOWN BUT SHALL BE PROVIDED PER NEC.
3. MINIMUM SIZE FOR 120VAC CONDUCTORS FED FROM THE 15A CIRCUIT BREAKER SHALL BE #12 AWG, U.O.N.
4. FUSED DISCONNECT FOR THE ELEVATOR SHALL BE PROVIDED WITH AN AUXILIARY CONTACT.
5. ENCLOSED RELAY SHALL BE FUNCTIONAL DEVICES INC. MODEL# RIBTU1C WITH THE FOLLOWING FEATURES: UL LISTED; NEMA 1 HOUSING; HIGH AND LOW VOLTAGE SEPARATION; SINGLE POLE DOUBLE THROW, 10A, GOLD FLASHED OUTPUT CONTACTS.
6. THE FIRE ALARM CONTROL MODULE SHALL BE COMPATIBLE WITH THE POWER REQUIREMENTS OF THE SHUNT TRIP COIL.

ELEVATOR SHUNT TRIP CONTROL DETAIL

NOT TO SCALE

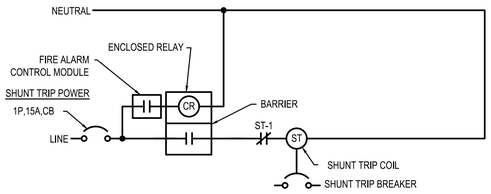


NOTES:

1. GENERATOR SHALL NOT BE WIRED AS A SEPARATELY DERIVED SYSTEM.

GENERATOR GROUNDING SCHEMATIC (ALTERNATE #1)

NOT TO SCALE



NOTES:

1. WIRING CONFIGURATION SHOWN IS BASED ON THE EQUIPMENT SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WIRING CONFIGURATION CHANGES DUE TO A SUBSTITUTION.
2. GROUND WIRE NOT SHOWN BUT SHALL BE PROVIDED PER NEC.
3. MINIMUM SIZE FOR 120VAC CONDUCTORS FED FROM THE 15A CIRCUIT BREAKER SHALL BE #12 AWG, U.O.N.
4. THE FIRE ALARM CONTROL MODULE SHALL BE COMPATIBLE WITH THE POWER REQUIREMENTS OF THE ENCLOSED RELAY COIL.
5. ENCLOSED RELAY SHALL BE FUNCTIONAL DEVICES INC. MODEL# RIBTU1C WITH THE FOLLOWING FEATURES: UL 864 LISTED; NEMA 1 HOUSING; HIGH AND LOW VOLTAGE SEPARATION; SINGLE POLE DOUBLE THROW, 10A, GOLD FLASHED OUTPUT CONTACTS.
6. THE ELEVATOR SHAFT DAMPER SHALL BE INSTALLED WITH CONTROL SO THAT IT IS CAPABLE OF AUTOMATICALLY OPENING UPON:
   - 6.1. FIRE ALARM INITIALING DEVICE
   - 6.2. INTERRUPTION OF POWER TO THE DAMPER
   - 6.3. THERMOSTAT. COORDINATE MECHANICAL CONTRACTOR FOR REQUIREMENTS.

TYPICAL SHUNT TRIP CONTROL DETAIL FOR ELEVATOR SHAFT DAMPER

NOT TO SCALE

TRASH CHUTE

9/3/2024 10:48:04 AM

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STATE OF MARYLAND
JOHN HOON YEOM
38316
PROFESSIONAL ENGINEER

Professional Certification: I certify that these documents were preparted or approved by me, ant that I am a duly licensed Engineer under the laws of the State of Maryland. License number 38316, Expiration Date: 01/05/2026

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GENERAL NOTES, SYMBOL LISTS, AND ABBREVIATIONS

E5.03

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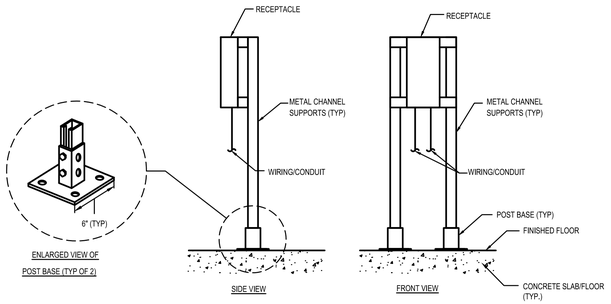
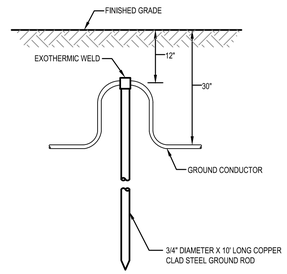


NOTES:

1. PROVIDE A MINIMUM OF FOUR ANCHORS AND BOLTS PER POST BASE TO SECURE POST BASE TO THE FLOOR. PROVIDE A MINIMUM OF OF 2 BOLTS TO SECURE EACH METAL CHANNEL LEG TO EACH POST BASE.

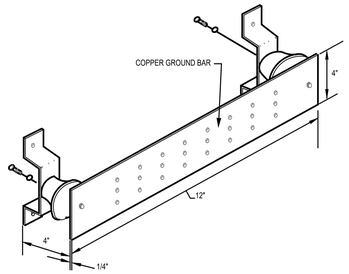
A E5.4 INDEPENDENT SUPPORTS FOR RECEPTACLE DETAIL

NOT TO SCALE



B E5.4 TYPICAL GROUND ROD DETAIL

NOT TO SCALE

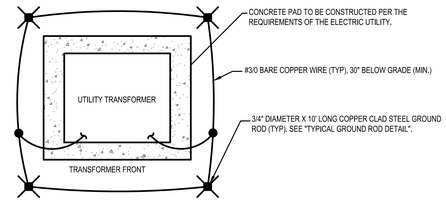


NOTES:

1. GROUND BAR SHALL BE UL LISTED HARGER GBI14412C WITH MOUNTING BRACKETS, STANDOFF INSULATORS, AND CONNECTORS FOR CONDUCTORS.

C E5.4 TYPICAL ELECTRICAL GROUND BAR (EGB) AND TELECOMMUNICATIONS GROUND BAR (TGB) DETAIL

NOT TO SCALE

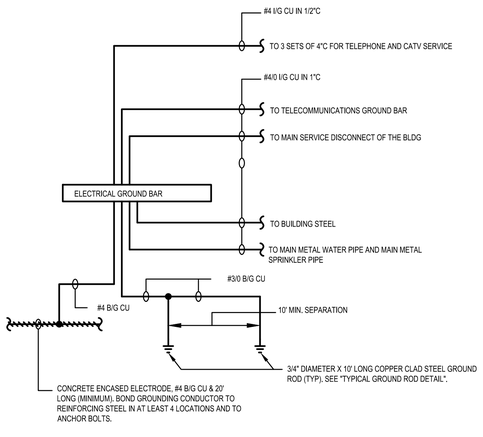


NOTES:

1. TRANSFORMER SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ELECTRIC UTILITY.

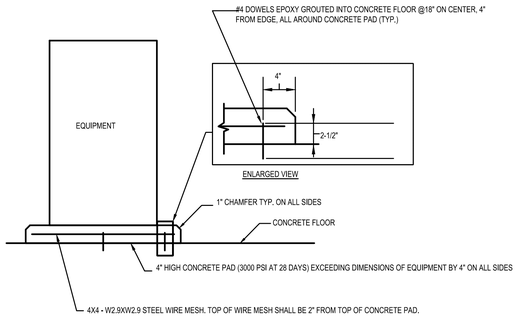
D E5.4 ELECTRIC UTILITY TRANSFORMER DETAIL

NOT TO SCALE



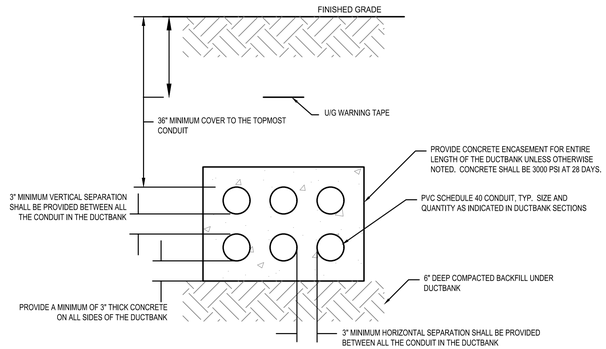
E E5.4 SERVICE ENTRANCE GROUNDING DETAIL

NOT TO SCALE



F E5.4 DETAIL OF CONCRETE HOUSEKEEPING PAD

NOT TO SCALE



TYPICAL DUCTBANK SECTION NOTES:

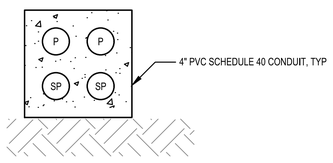
1. DETAIL SHOWS A TYPICAL 2-HIGH X 3-WIDE (2HX3W) DUCTBANK SECTION. THE REQUIREMENTS INDICATED IN THIS DETAIL SHALL APPLY TO ALL OTHER SIZE/TYPES OF CONCRETE ENCASED DUCTBANKS.
2. DETAIL ALSO APPLIES TO NON-CONCRETE ENCASED DUCTBANKS. FOR NON-CONCRETE ENCASED DUCTBANKS, CONDUIT SHALL BE DIRECTLY ON TOP OF COMPACTED BACKFILL.

DUCTBANK SECTION KEY:

P FOR SERVICE CONDUCTORS. COORDINATE QUANTITY AND SIZE WITH LOCAL UTILITY, BGE

G E5.4 TYPICAL DUCT BANK SECTION DETAIL

NOT TO SCALE



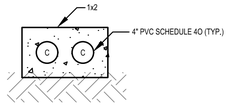
P: POWER
SP: SPARE

NOTES:

1. SEE DETAIL G/E5.4 FOR DETAILED REQUIREMENTS FOR THE DUCTBANK, INCLUDING BUT NOT LIMITED TO: SEPARATION, BURIAL DEPTH, WARNING TAPE, CONCRETE TYPE, AND BACKFILL BELOW DUCTBANK.
2. PROVIDE CONCRETE ENCASEMENT FOR ENTIRE LENGTH OF DUCTBANK
3. SEE DUCTBANK SECTION LEGEND FOR CONDUIT INFORMATION.
4. COMPLY WITH THE FOLLOWING:
   - 4.1. COMPLY WITH LOCAL UTILITY REQUIREMENTS FOR CONCRETE ENCASED DUCTBANKS. COORDINATE WITH LOCAL UTILITY AND VERIFY/CONFIRM REQUIREMENTS PRIOR TO STARTING ANY WORK.
   - 4.2. WHERE THERE IS A CONFLICT BETWEEN DETAIL G/E5.4 AND LOCAL UTILITY REQUIREMENTS, LOCAL UTILITY REQUIREMENTS SHALL TAKE PRECEDENCE. DUCTBANKS SHALL BE CONCRETE ENCASED REGARDLESS.
   - 4.3. WHEN UTILITY LINES ARE CROSSING, COORDINATE WITH OTHER UTILITY LINE INSTALLATIONS TO DETERMINE WHICH UTILITY LINE SHOULD BE INSTALLED FIRST.

H E5.4 DUCT BANK SECTION DETAIL

NOT TO SCALE



C: COMMUNICATION

NOTES:

1. SEE DETAIL G/E5.4 FOR DETAILED REQUIREMENTS FOR THE DUCTBANK, INCLUDING BUT NOT LIMITED TO: SEPARATION, BURIAL DEPTH, WARNING TAPE, CONCRETE TYPE, AND BACKFILL BELOW DUCTBANK.
2. PROVIDE CONCRETE ENCASEMENT FOR ENTIRE LENGTH OF DUCTBANK
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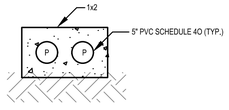
I E5.4 DUCT BANK SECTION DETAIL

NOT TO SCALE



P: POWER
SP: SPARE

NOTES:

1. SEE DETAIL G/E5.4 FOR DETAILED REQUIREMENTS FOR THE DUCTBANK, INCLUDING BUT NOT LIMITED TO: SEPARATION, BURIAL DEPTH, WARNING TAPE, CONCRETE TYPE, AND BACKFILL BELOW DUCTBANK.
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   - 4.3. WHEN UTILITY LINES ARE CROSSING, COORDINATE WITH OTHER UTILITY LINE INSTALLATIONS TO DETERMINE WHICH UTILITY LINE SHOULD BE INSTALLED FIRST.

K E5.4 DUCT BANK SECTION DETAIL

NOT TO SCALE

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SEAN HOON YEOH
38316
PROFESSIONAL ENGINEER

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DETAILS

E5.04

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22057

CCTV CAMERA SCHEDULE

CAMERA NUMBER	LOCATION
01	OUTDOOR CAMERA
02	OUTDOOR CAMERA
03	OUTDOOR CAMERA
04	OUTDOOR CAMERA
05	OUTDOOR CAMERA
06	OUTDOOR CAMERA
07	OUTDOOR CAMERA
08	OUTDOOR CAMERA
09	OUTDOOR CAMERA
10	OUTDOOR CAMERA
11	OUTDOOR CAMERA
12	OUTDOOR CAMERA
13	OUTDOOR CAMERA
14	OUTDOOR CAMERA
15	OUTDOOR CAMERA
16	LOBBY 011
17	VESTIBULE 110
18	LOBBY 011
19	LOBBY 011
20	RESTROOM VESTIBULE 012
21	CHILDREN'S 104
22	CHILDREN'S 104
23	COLLECTION 105
24	COLLECTION 105
25	VESTIBULE 100
26	VESTIBULE 100
27	COLLECTION 105
28	ADULT 109
29	ADULT 109
30	LOWER LOBBY 012
31	MEETING ROOM 009
32	MEETING ROOM 009

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CAMERA SCHEDULE

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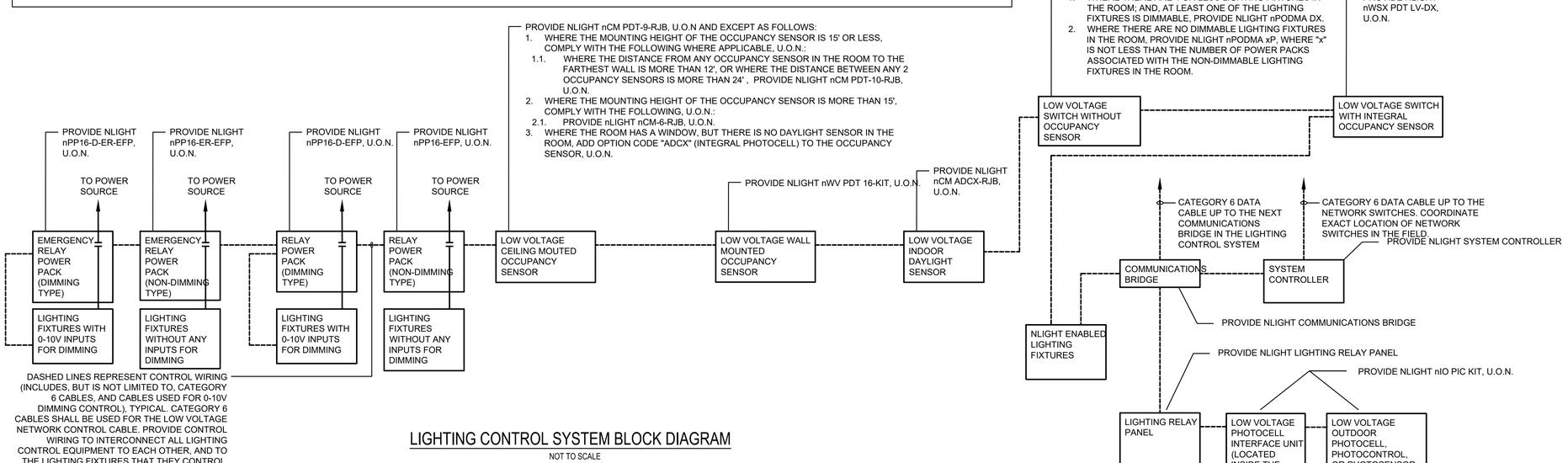
LIGHTING FIXTURE SHEDULE

SYMBOL	FIXTURE DESCRIPTION	MANUFACTURE	CATALOG #	LAMPS NO.	LAMPS TYPE	VOLTS	VOLT AMPERES	LUMENS	MOUNTING
A/AE	24"X24" LED LIGHTING FIXTURE, RECESSED MOUNTED	LITHONIA LIGHTING	TYPE A: 2BLT2-33L-ADSM-EZ1-LP835-N100 TYPE AE: 2BLT2-33L-ADSM-EZ1-LP835-N100-EL14L	1	LED	120	26.67	3332	CEILING/RECESSED
B4/B4E	6"X4' LED LIGHTING FIXTURE, RECESSED MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	TYPE B4: SL6L-LOP-4FT-FLP-90CRI-35K-35K-1200LMF-MIN1-120-FINISH-NLIGHT TYPE B4E: SL6L-LOP-4FT-FLP-90CRI-35K-35K-1200LMF-MIN1-120-FINISH-E10WLCP-NLIGHT	1	LED	120	40	4020	CEILING/RECESSED
B6/B6E	6"X6' LED LIGHTING FIXTURE, RECESSED MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	TYPE B6: SL6L-LOP-6FT-FLP-90CRI-35K-900LMF-MIN1-120-FINISH-NLIGHT TYPE B6E: SL6L-LOP-6FT-FLP-90CRI-35K-900LMF-MIN1-120-FINISH-E10WLCP-NLIGHT	1	LED	120	48	5100	CEILING/RECESSED
B8/B8E	6"X8' LED LIGHTING FIXTURE, RECESSED MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	TYPE B8: SL6L-LOP-8FT-FLP-90CRI-35K-900LMF-MIN1-120-FINISH-NLIGHT TYPE B8E: SL6L-LOP-8FT-FLP-90CRI-35K-900LMF-MIN1-120-FINISH-E10WLCP-NLIGHT	1	LED	120	64	6800	CEILING/RECESSED
C4	6"x4' LED LIGHTING FIXTURE, WALL MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	S4WD-LSL-4FT-MSL4-90CRI-35K-1000LMF-SCT-MIN1-FLL-MVOLT-FINISH-E10WLCP-NLIGHT	1	LED	120	32	3892	WALL 8' AFF
C6	6"x6' LED LIGHTING FIXTURE, PENDANT MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	S4PD-LSL-6FT-90CRI-35K-1000LMF-DAS-SCT-MIN1-FLL-MVOLT-FINISH-NLIGHT-F1/36A	1	LED	120	48	5838	PENDANT
C8	6"x8' LED LIGHTING FIXTURE, PENDANT MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	S4PD-LSL-8FT-90CRI-35K-1000LMF-DAS-SCT-MIN1-FLL-MVOLT-FINISH-NLIGHT-F1/36A	1	LED	120	64	7784	PENDANT
C10	6"x10' LED LIGHTING FIXTURE, PENDANT MOUNTED	MARK ARCHITECTURAL LIGHTING INC.	S4PD-LSL-10FT-90CRI-35K-1000LMF-DAS-SCT-MIN1-FLL-MVOLT-FINISH-E10WLCP-NLIGHT-F1/36A	1	LED	120	80	9730	PENDANT
D/DE	6" LED DOWNLIGHT, RECESSED MOUNTED	GOTHAM LIGHTING	TYPE D: EVO6-35/20-AR-WD--LSS-120-GZ1-NLT TYPE DE: EVO6-35/20-AR-WD--LSS-120-GZ1-NLT-E10WCP	1	LED	120	31.6	2287	CEILING/RECESSED
E / E	LED EXIT LIGHT	LITHONIA LIGHTING	TYPE E: LHQM-S-W-3-R	1	LED	120	-	-	WALL/CEILING
F	FLEXIBLE LED STRIP LIGHT	ACCLAIM LIGHTING	F2#B-2-2-2-LENGTH-A-G-N PROVIDE LOW VOLTAGE TRANSFORMER/POWER PACK SEE FLOOR PLAN FOR LENGTH.	1	LED	-	-	-	RECESSED
G	6" DECORATIVE CYLINDER PENDANT DOWNLIGHT	LUMETTA LIGHTING	AP50612-F11--CCT 3500K-CRI80-120-CR432-ELDO	1	LED	120	21	1435	PENDANT
H/HE	4" CYLINDER PENDANT DOWNLIGHT	GOTHAM LIGHTING	TYPE H: EVO4CC-30-15-AR-LSS-MD-MVOLT-GZ10-NLT-90CRI TYPE HE: EVO4CC-30-15-AR-LSS-MD-MVOLT-GZ10-E10WCPR-NLT-90CRI	1	LED	120	18	1500	PENDANT
U1/U1E	4' LED LINEAR LIGHT	LITHONIA LIGHTING	TYPE U1: FEM-L48-6000LM-IMACD-WD-MVOLT-GZ10-35K-90CRI TYPE U1E: FEM-L48-6000LM-IMACD-WD-MVOLT-GZ10-35K-90CRI-E10WMCP	1	LED	120	38	5002	SURFACE
U2	4' LED LINEAR LIGHT	LITHONIA LIGHTING	TYPE U2: FEM-L48-4000LM-IMACD-WD-MVOLT-GZ10-35K-90CRI PROVIDE WALL MOUNTING BRACKET	1	LED	120	24	3891	WALL
V	3' LED VANITY LIGHT	LITHONIA LIGHTING	TYPE V: FMVTSL-36IN-MVOLT-30K-90CRI-BN	1	LED	120	26	-	WALL ABOVE MIRROR
W1	LED WALL PACK	LITHONIA LIGHTING	TYPE W1: DSXW1-10C-530-40K-T3M-MVOLT-BBW-PE-FINISH	1	LED	120	19	2159	WALL 10'AFF
W2	LED WALL PACK WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	TYPE W2: ARC1-P2-40K-MVOLT-E4WH-PE-FINISH	1	LED	120	17	2000	WALL ABOVE DOOR

NOTES:
1. PROVIDE LIGHTING FIXTURES INDICATED ON THE LIGHTING FIXTURE SCHEDULE OR APPROVED EQUAL. LIGHTING FIXTURES SUBJECT TO APPROVAL BY THE OWNER AND ARCHITECT.
2. MOUNTING HEIGHTS SHOWN ON THE SCHEDULE ARE MEASURED FROM THE FINISHED FLOOR OR GRADE TO THE BOTTOM OF THE FIXTURE U.O.N.
3. ALL LED SHALL BE COORDINATED COLOR TEMPERATURE WITH OWNER AND ARCHITECT. UNLESS OTHERWISE NOTED, PROVIDE 4000K COLOR TEMPERATURE LAMPS.
4. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLAN AND OWNER.
5. FINISH (ARCHITECT RAL) - COLOR TO BE COORDINATED WITH ARCHITECTURAL PLAN AND OWNER.
6. POWER FEED POSITION: CONTRACTOR TO SELECT PER INSTALLATION METHODS.

LIGHTING CONTROL SYSTEM NOTES:

1. PROVIDE WIRING, PROGRAMMING, CONTROLS, POWER, HARDWARE, AND ACCESSORIES FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.
2. QUANTITIES AND LOCATIONS OF EQUIPMENT SHALL COMPLY WITH THE PLAN DRAWINGS, DIAGRAMS, SPECIFICATIONS, AND OTHER REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.
3. WHERE 120/277V POWER IS REQUIRED BY EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, THE LIGHTING RELAY PANELS, NLIGHT ECLYPSE SYSTEM CONTROLLER, AND TOUCH SCREEN TYPE LIGHT SWITCHES), AND THE BRANCH CIRCUIT POWER SOURCE FOR THE EQUIPMENT IS NOT INDICATED IN THE PLAN DRAWINGS, PROVIDE WIRING/CONDUIT FROM THE EQUIPMENT TO THE UNSWITCHED SIDE OF THE NEAREST 120/277V, 20A LIGHTING BRANCH CIRCUIT, WHICH HAS LIGHTING FIXTURES THAT ARE CONTROLLED BY THE LIGHTING CONTROL SYSTEM. WHERE AT LEAST ONE OF THE CIRCUITS CONTROLLED BY THE RELAY PANEL OR SYSTEM CONTROLLER IS AN EMERGENCY CIRCUIT, THE PANEL/CONTROLLER SHALL BE POWERED FROM THE UNSWITCHED SIDE OF THE NEAREAST 120/277V, 20A EMERGENCY LIGHTING BRANCH CIRCUIT. WIRING/CONDUIT FROM THE EQUIPMENT TO WHERE IT CONNECTS TO THE LIGHTING BRANCH CIRCUIT, SHALL BE EQUAL IN SIZE/QUANTITY TO THE LIGHTING BRANCH CIRCUIT WIRING/CONDUIT. THE CIRCUIT NUMBER SHALL BE LABELED ON THE EQUIPMENT.
4. POWER POWER PACKS AND POWER SUPPLIES FOR ALL EQUIPMENT THAT REQUIRE IT.
5. IN THIS DIAGRAM, "ROOM" SHALL INCLUDE, BUT NOT BE LIMITED TO, CORRIDORS AND ALL SPACES INSIDE THE BUILDING.
6. WHERE THE LIGHTING FIXTURE INCLUDES INTEGRAL BATTERY BACKUP, PROVIDE AN UNSWITCHED "HOT" WIRE UP TO THE LIGHTING FIXTURE. IN ADDITION TO ANY "HOT" WIRE THAT IS BEING SWITCHED BY POWER PACKS, RELAYS, OR OTHER EQUIPMENT. PROVIDE THE UNSWITCHED "HOT" WIRE WHETHER OR NOT IT IS INDICATED IN THE PLAN DRAWINGS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
7. BATTERY BACKUP EMERGENCY LIGHTING UNITS (LIGHTS TURN ON ONLY WHEN THERE IS A POWER OUTAGE), AND BATTERY BACKUP EXIT LIGHTS SHALL BE POWERED BY UNSWITCHED "HOT" WIRES. THESE LIGHTS SHALL NOT BE SWITCHED BY POWER PACKS, RELAYS, OR OTHER EQUIPMENT. PROVIDE THE UNSWITCHED "HOT" WIRE WHETHER OR NOT IT IS INDICATED IN THE PLAN DRAWINGS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
8. THE BRANCH CIRCUITS FOR LIGHTING FIXTURES SHALL RUN THROUGH THE POWER PACKS THAT ARE LOCATED IN THE SAME ROOM AS THE LIGHTING FIXTURES, WHETHER OR NOT THIS IS SHOWN IN THE PLAN DRAWINGS. WHERE THERE ARE MULTIPLE POWER PACKS IN THE SAME ROOM, THIS SHALL MEAN THAT THERE ARE SEVERAL GROUPS OF LIGHTS IN THE ROOM, AND EACH GROUP CAN BE SEPARATELY CONTROLLED THROUGH ITS ASSOCIATED POWER PACK.
9. WHERE CEILING MOUNTED OCCUPANCY SENSORS AND INDOOR DAYLIGHT SENSORS ARE SHOWN IN ROOMS WITHOUT A SUSPENDED CEILING, THE SENSORS SHALL BE SUSPENDED AT 9' AFF OR AT THE SAME HEIGHT AS THE LIGHT FIXTURES BEING CONTROLLED BY THE SENSORS, WHICHEVER IS HIGHER, U.O.N.
10. WHERE POWER PACKS ARE SHOWN IN ROOMS WITHOUT A SUSPENDED CEILING, THE POWER PACKS SHALL BE SUSPENDED AT 9'AFF OR AT THE SAME HEIGHT AS THE LIGHT FIXTURES BEING CONTROLLED BY THE POWER PACK, WHICHEVER IS HIGHER, U.O.N.
11. WHERE THE COMMUNICATIONS BRIDGE AND SYSTEM CONTROLLER ARE NOT SHOWN IN THE PLAN DRAWINGS, THESE EQUIPMENT SHALL BE INSTALLED IN THE ELECTRICAL AND IT/TELECOMMUNICATIONS ROOMS. WHERE THERE ARE NO ELECTRICAL OR IT/TELECOMMUNICATIONS ROOMS, THESE EQUIPMENT SHALL BE INSTALLED IN STORAGE ROOMS. EXACT LOCATION OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD.
12. ALL POWER PACKS SHALL BE DIMMING TYPE (WITH 0-10V OUTPUTS FOR DIMMING LIGHTING FIXTURES) U.O.N. AND EXCEPT AS FOLLOWS:
    12.1. WHERE ALL LIGHTING FIXTURES ASSOCIATED WITH THE POWER PACK DO NOT HAVE 0-10V DIMMING INPUTS, THE POWER PACK SHALL BE NON-DIMMING TYPE.
13. IN ROOMS WITH DAYLIGHT SENSORS, THE 1ST ROW OF LIGHTS ADJACENT TO THE EXTERIOR WALL THAT IS CLOSEST TO THE DAYLIGHT SENSOR, SHALL BE CONTROLLED BY THAT DAYLIGHT SENSOR. ALL LIGHTS IN THE 1ST ROW SHALL BE CONNECTED TO THE SAME RELAY POWER PACK (DIMMING TYPE). PROVIDE DEDICATED RELAY POWER PACKS (DIMMING TYPE) TO DIM THE 1ST ROW LIGHTS, WHETHER OR NOT IT IS INDICATED IN THE PLAN DRAWINGS. THESE RULES SHALL ALSO APPLY TO ROOMS WITH MULTIPLE DAYLIGHT SENSORS, WITH EACH SENSOR CONTROLLING A SEPARATE ROW OF LIGHTS. WHERE A LIGHT IS COMMON TO 2 SEPARATE ROWS OF LIGHTS, THE LIGHT SHALL BE ASSOCIATED WITH ROW OF LIGHTS THAT IS ADJACENT TO THE EXTERIOR WALL WHICH HAS MORE AVAILABLE DAYLIGHT.
14. PRELIMINARY SEQUENCE OF OPERATIONS:
    14.1. THE PRELIMINARY SEQUENCE OF OPERATIONS SHALL BE MODIFIED BASED ON THE OWNER'S REQUIREMENTS. MAXIMUM/MINIMUM LIGHTING LEVELS AND TIME DELAYS SHALL BE PROGRAMMED PER THE OWNER'S REQUIREMENTS. COORDINATE WITH THE OWNER PRIOR TO FINAL PROGRAMMING OF THE SYSTEM.
    14.2. WHERE THE ROOMS HAVE LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS, ALL LIGHTS IN THE ROOM SHALL TURN ON TO 50% LIGHT OUTPUT WHEN MOTION IS SENSED; AND, PRESSING A BUTTON ON THE SWITCH AFTERWARDS SHALL ALLOW A PERSON TO CHANGE THE LIGHTING LEVEL. AT LEAST ONE OF THE BUTTONS ON THE SWITCH SHALL TURN THE LIGHTS TO MAXIMUM LIGHT OUTPUT, AND AT LEAST ONE OF THE BUTTONS ON THE SWITCH SHALL TURN THE LIGHTS OFF. EXCEPTIONS TO THIS RULE ARE AS FOLLOWS:
        14.2.1. IN VESTIBULES, LOBBIES, CORRIDORS, STAIRWAYS, AND BATHROOMS, THE LIGHTS SHALL TURN ON TO MAXIMUM LIGHT OUTPUT WHEN MOTION IS SENSED; AND, PRESSING A BUTTON ON THE SWITCH AFTERWARDS SHALL ALLOW A PERSON TO CHANGE THE LIGHTING LEVEL. AT LEAST ONE OF THE BUTTONS ON THE SWITCH SHALL TURN THE LIGHTS TO MAXIMUM LIGHT OUTPUT, AND AT LEAST ONE OF THE BUTTONS ON THE SWITCH SHALL TURN THE LIGHTS OFF.
    14.3. WHERE THE ROOMS HAVE LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS, AFTER THE LIGHTS HAVE TURNED ON, THE LIGHTS CAN BE SET TO ANY LIGHTING LEVEL. THE LIGHTS SHALL REMAIN AT THE SET LIGHTING LEVEL WHILE MOTION IS BEING SENSED.
    14.4. WHERE THE ROOMS HAVE LOW VOLTAGE OCCUPANCY SENSORS, BUT NO LOW VOLTAGE SWITCHES, ALL LIGHTS IN THE ROOM SHALL TURN ON TO 100% LIGHT OUTPUT WHEN MOTION IS SENSED.
    14.5. WHERE THE ROOMS HAVE LOW VOLTAGE SWITCHES, BUT NO LOW VOLTAGE OCCUPANCY SENSORS, PRESSING THE SWITCH SHALL TURN THE LIGHTS ON/OFF AND CONTROL THE LIGHTING LEVEL. THERE SHALL BE NO AUTOMATIC LIGHT CONTROL FOR THESE ROOMS.
    14.6. WHERE THE ROOMS HAVE LOW VOLTAGE INDOOR DAYLIGHT SENSORS, THE LIGHTS IN THE ROOM SHALL BE AUTOMATICALLY DIMMED BASED ON AMOUNT OF DAYLIGHT COMING INTO THE ROOM FROM THE OUTSIDE.
    14.7. AFTER A FIELD ADJUSTABLE TIME DELAY (LASTING NO LONGER THAN 20 MINUTES) FROM WHEN MOTION WAS LAST SENSED, THE LIGHTS IN THE ROOM SHALL TURN OFF, U.O.N. AND EXCEPT AS FOLLOWS:
        14.7.1. IN VESTIBULES, LOBBIES, CORRIDORS AND STAIRWAYS, THE LIGHTS SHALL DIM TO 20% LIGHT OUTPUT. INCREASE THIS LIGHT OUTPUT AS REQUIRED SO THAT THERE ARE NO DARK SPOTS IN THE CORRIDORS AND STAIRWAYS. WHERE THERE IS A SWITCH FOR THE ROOM, PRESSING THE OFF BUTTON ON THE SWITCH SHALL TURN THE LIGHTS COMPLETELY OFF.
        14.7.2. WHERE THERE ARE SERVICE EQUIPMENT, SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, OR MOTOR CONTROL CENTERS INSTALLED IN ROOMS WHICH HAVE OCCUPANCY SENSORS, THE GROUP OF LIGHTS WHICH ARE ADJACENT TO THE ELECTRICAL EQUIPMENT SHALL DIM TO 50% LIGHT OUTPUT. INCREASE THIS LIGHT OUTPUT AS REQUIRED SO THAT THERE ARE NO DARK SPOTS IN THE WORKING SPACE ASSOCIATED WITH THE EQUIPMENT. WHERE THERE IS A SWITCH FOR THE ROOM, PRESSING THE OFF BUTTON ON THE SWITCH SHALL TURN THE LIGHTS COMPLETELY OFF.
    14.8. EXTERIOR LIGHTS SHALL BE CONTROLLED BY THE LOW VOLTAGE OUTDOOR PHOTOCELL.



LIGHTING CONTROL SYSTEM BLOCK DIAGRAM

NOT TO SCALE

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LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL

E6.01

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22057

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PANEL SCHEDULE: MDP

LOCATION: ELECTRICAL 011
SUPPLY FROM: C/T CABINET
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4

A.I.C. RATING: SEE POWER RISER DIAGRAM
BUS RATING: 800 A
MAIN OC: MLO

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	ACCU-2 (OUTDOOR)		3-#1, 1-#1, 1-#8	100	100	3	7205	7205					3	100	100	3-#1, 1-#1, 1-#8		ACCU-2 (OUTDOOR)	2
3	--		--	--	--	--			7205	7205			--	--	--	--		--	4
5	--		--	--	--	--					7205	7205	--	--	--	--		--	6
7	PANEL EV		3-#1, 1-#1, 1-#8	100	100	3	1608	11246					3	225	400	3-#300, 1-#300, 1-#4		PANEL RP1/RP2/RP3	8
9	--		--	--	--	--			1810	11936			--	--	--	--		--	10
11	--		--	--	--	--					658	10264	--	--	--	--		--	12
13	PANEL RMP1/RMP2		3-#500, 1-#500, 1-#4	400	300	3	27801	2228					3	100	100	3-#1, 1-#1, 1-#8		PANEL RLP	14
15	--		--	--	--	--			25399	2393			--	--	--	--		--	16
17	--		--	--	--	--					26346	1230	--	--	--	--		--	18
19	Spare		--	100	100	3	0	0					3	100	100	--		Spare	20
21	--		--	--	--	--			0	0			--	--	--	--		--	22
23	--		--	--	--	--					0	0	--	--	--	--		--	24
25	Spare		--	200	200	3	0	0					3	100	100	--		Spare	26
27	--		--	--	--	--			0	0			--	--	--	--		--	28
29	--		--	--	--	--					0	0	--	--	--	--		--	30
31	Space		--	--	--	1	--	--					1	--	--	--		Space	32
33	Space		--	--	--	1			--	--			1	--	--	--		Space	34
35	Space		--	--	--	1					--	--	1	--	--	--		Space	36
37	Space		--	--	--	1	--	--					1	--	--	--		Space	38
39	Space		--	--	--	1			--	--			1	--	--	--		Space	40
41	Space		--	--	--	1					--	--	1	--	--	--		Space	42
					LOAD:		57287 VA		55948 VA		52909 VA								
					AMPS:		481 A		470 A		441 A								

PANEL NOTES
1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG
ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT
6 PROVIDE GFCI RECEPTACLE

TOTAL
CONNECTED LOADS: 166144 VA
TOTAL CONNECTED AMP: 461 A

PANEL SCHEDULE: RLP

LOCATION: ELECTRICAL 011
SUPPLY FROM: MDP
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4

A.I.C. RATING: SEE POWER RISER DIAGRAM
BUS RATING: 100 A
MAIN OC: MLO

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	LIGHTING (LOWER LEVEL)		1-#10, 1-#10, 1-#10	100	20	1	949	935					1	20	100	1-#12, 1-#12, 1-#12		LIGHTING (LOWER LEVEL)	2
3	LIGHTING (UPPER LEVEL)		1-#8, 1-#8, 1-#8	100	20	1			1093	1395			1	20	100	1-#8, 1-#8, 1-#8		LIGHTING (UPPER LEVEL)	4
5	LIGHTING (UPPER LEVEL)		1-#12, 1-#12, 1-#12	100	20	1					480	750	1	20	100	1-#12, 1-#12, 1-#12		LIGHTING (UPPER LEVEL)	6
7	LIGHTING (UPPER LEVEL)		1-#12, 1-#12, 1-#12	100	20	1	95	260					1	20	400	1-#12, 1-#12, 1-#12		Lighting	8
9	Spare		--	400	20	1			0	--			1	--	--	--		Space	10
11	Spare		--	400	20	1					0	--	1	--	--	--		Space	12
13	Spare		--	400	20	1	0	--					1	--	--	--		Space	14
15	Spare		--	400	20	1			0	--			1	--	--	--		Space	16
17	Spare		--	400	20	1					0	--	1	--	--	--		Space	18
19	Spare		--	400	20	1	0	--					1	--	--	--		Space	20
21	Spare		--	400	20	1			0	--			1	--	--	--		Space	22
23	Spare		--	400	20	1					0	--	1	--	--	--		Space	24
25	Spare		--	400	20	1	0	--					1	--	--	--		Space	26
27	Spare		--	400	20	1			0	--			1	--	--	--		Space	28
29	Spare		--	400	20	1					0	--	1	--	--	--		Space	30
31	Spare		--	400	20	1	0	--					1	--	--	--		Space	32
33	Spare		--	400	20	1			0	--			1	--	--	--		Space	34
35	Spare		--	400	20	1					0	--	1	--	--	--		Space	36
37	Spare		--	400	20	1	0	--					1	--	--	--		Space	38
39	Spare		--	400	20	1			0	--			1	--	--	--		Space	40
41	Spare		--	400	20	1					0	--	1	--	--	--		Space	42
					LOAD:		2228 VA		2488 VA		1230 VA								
					AMPS:		20 A		22 A		10 A								

PANEL NOTES
1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG
ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT
6 PROVIDE GFCI RECEPTACLE

TOTAL
CONNECTED LOADS: 5847 VA
TOTAL CONNECTED AMP: 16 A

PANEL SCHEDULE: EV

LOCATION: ELECTRICAL 011
SUPPLY FROM: MDP
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4

A.I.C. RATING: SEE POWER RISER DIAGRAM
BUS RATING: 100 A
MAIN OC: MLO

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	DSSCU-2 (OUTDOOR)		2-#10, 1-#10, 1-#10	100	30	2	1144	104					2	15	100	2-#12, 1-#12, 1-#12		DSSAC-2 (ELEVATOR)	2
3	--		--	--	--	--			1144	104			--	--	--	--		--	4
5	LIGHTING (ELEVATOR PIT)		1-#12, 1-#12, 1-#12	100	20	1					48	48	1	20	100	1-#12, 1-#12, 1-#12		LIGHTING (ELEVATOR SHAFT)	6
7	RECEP. (ELEVATOR PIT)		1-#12, 1-#12, 1-#12	100	20	1	180	180					1	20	100	1-#12, 1-#12, 1-#12		RECEP. (ELEVATOR SHAFT)	8
9	ESP-1 (EEVATOR PIT)		2-#12, 1-#12, 1-#12	100	20	2			562	0			1	20	400	--		Spare	10
11	--		--	--	--	--					562	0	1	20	400	--		Spare	12
13	Spare		--	400	20	1	0	0					1	20	400	--		Spare	14
15	Spare		--	400	20	1			0	0			1	20	400	--		Spare	16
17	Spare		--	400	20	1					0	0	1	20	400	--		Spare	18
19	Spare		--	400	20	1	0	0					1	20	400	--		Spare	20
21	Spare		--	400	20	1			0	0			1	20	400	--		Spare	22
23	Spare		--	400	20	1					0	0	1	20	400	--		Spare	24
25	Space		--	--	--	1	--	--					1	--	--	--		Space	26
27	Space		--	--	--	1			--	--			1	--	--	--		Space	28
29	Space		--	--	--	1					--	--	1	--	--	--		Space	30
					LOAD:		1608 VA		1810 VA		658 VA								
					AMPS:		15 A		16 A		5 A								

PANEL NOTES
1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG
ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT
6 PROVIDE GFCI RECEPTACLE

TOTAL
CONNECTED LOADS: 4076 VA
TOTAL CONNECTED AMP: 11 A

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38316
PROFESSIONAL ENGINEER

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PANEL SCHEDULES

E6.02
177 OF 179
22057

PANEL SCHEDULE: RP1

LOCATION: ELECTRICAL 011 | **VOLTAGE:** 120/208 Wye | **A.I.C. RATING:** SEE POWER RISER DIAGRAM
SUPPLY FROM: MDP | **PHASE:** 3 | **BUS RATING:** 225 A
MOUNTING: Surface | **WIRES:** 4 | **MAIN OC:** MLO
ENCLOSURE: Type 1

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	RECEP. (MECH 008)		1-#10, 1-#10, 1-#10	400	20	1	720	720					1	20	100	1-#12, 1-#12, 1-#12		RECEP. (STAFF WORK ROOM 005)	2
3	RECEP. (STAFF WORK ROOM 005)		1-#10, 1-#10, 1-#10	400	20	1			1080	720			1	20	100	1-#10, 1-#10, 1-#10		RECEP. (STAFF WORK ROOM 005)	4
5	RECEP. (BREAK ROOM 007)		1-#12, 1-#12, 1-#12	400	20	1					540	360	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (BREAK ROOM 007)	6
7	REF. (BREAK ROOM 007)		1-#12, 1-#12, 1-#12	400	20	1	180	360					1	20	100	1-#12, 1-#12, 1-#12		RECEP. (OFFICE 006)	8
9										540			1	20	100	1-#12, 1-#12, 1-#12		RECEP. (MEETING ROOM 009)	10
11	RECEP. (MEETING ROOM 009)		1-#12, 1-#12, 1-#12	400	20	1					540	180	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (MEETING ROOM 009)	12
13	RECEP. (RR 002)		1-#12, 1-#12, 1-#12	400	20	1	180	360					1	20	100	1-#12, 1-#12, 1-#12		RECEP. (STORGAE 010/CORR001)	14
15	RECEP. (RR 114)		1-#12, 1-#12, 1-#12	400	20	1			540	360			1	20	100	1-#12, 1-#12, 1-#12		RECEP. (JAN CLO 013/VEST 012)	16
17	WATER FOUTAIN (LOBBY 011)		1-#12, 1-#12, 1-#12	400	20	1					360	360	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (LOBBY 011)	18
19	RECEP. (LOBBY 011)		1-#12, 1-#12, 1-#12	400	20	1	540	360					1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX (LOBBY 011)	20
21	RECEP. (ROOMS...		1-#10, 1-#10, 1-#10	400	20	1			720	360			1	20	100	1-#12, 1-#12, 1-#12		RECEP. (OUTDOOR)	22
23	RECEP. (STUDY 106/107/108)		1-#10, 1-#10, 1-#10	400	20	1					1080	720	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (ADULT 109)	24
25	RECEP. (ADULT 109)		1-#12, 1-#12, 1-#12	400	20	1	540	720					1	20	100	1-#10, 1-#10, 1-#10		RECEP. (CHILDREN'S 104)	26
27	RECEP. (CHILDREN'S 104)		1-#10, 1-#10, 1-#10	400	20	1			720	1080			1	20	100	*1-#8, 1-#8, 1-#8*		RECEP. (COLLECTION 105)	28
29	MONITOR CHILDREN'S 104)		1-#12, 1-#12, 1-#12	400	20	1					360	720	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (COLLECTION 105)	30
31	FLOOR BOX (COLLECTION 105)		1-#12, 1-#12, 1-#12	400	20	1	360	360					1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX (MEETING 009)	32
33	FLOOR BOX (MEETING ROOM...		1-#12, 1-#12, 1-#12	400	20	1			360	540			1	20	100	1-#10, 1-#10, 1-#10		FLOOR BOX (CHILDREN'S 104)	34
35	FLOOR BOX (CHILDREN'S 104)		1-#10, 1-#10, 1-#10	400	20	1					540	540	1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX ADULT 109)	36
37	FLOOR BOX (ADULT 109)		1-#12, 1-#12, 1-#12	400	20	1	540	540					1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX (COLLECTION 105)	38
39	FLOOR BOX COLLECTION 105)		1-#10, 1-#10, 1-#10	400	20	1			720	540			1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX (COLLECTION 105)	40
41	FLOOR BOX (COLLECTION 105)		1-#12, 1-#12, 1-#12	400	20	1					540	720	1	20	100	1-#12, 1-#12, 1-#12		FLOOR BOX (COLLECTION 105)	42
43	Spare		--	400	20	1	0	0					1	20	400	--		Spare	44
45	Spare		--	400	20	1			0	0			1	20	400	--		Spare	46
47	Spare		--	400	20	1					0	0	1	20	400	--		Spare	48
49	Spare		--	400	20	1	0	0					1	20	400	--		Spare	50
51	Spare		--	400	20	1			0	0			1	20	400	--		Spare	52
53	Spare		--	400	20	1					0	0	1	20	400	--		Spare	54
55	Spare		--	400	20	1	0	0					1	20	400	--		Spare	56
57	Spare		--	400	20	1			0	0			1	20	400	--		Spare	58
59	Spare		--	400	20	1					0	0	1	20	400	--		Spare	60
61	Spare		--	400	20	1	0	0					1	20	400	--		Spare	62
63	Spare		--	400	20	1			0	0			1	20	400	--		Spare	64
65	Spare		--	400	20	1					0	0	1	20	400	--		Spare	66
67	Spare		--	400	20	1	0	0					1	20	400	--		Spare	68
69	Spare		--	400	20	1			0	0			1	20	400	--		Spare	70
71	Spare		--	400	20	1					0	0	1	20	400	--		Spare	72
73	Spare		--	400	20	1	0	0					1	20	400	--		Spare	74
75	Spare		--	400	20	1			0	0			1	20	400	--		Spare	76
77	Spare		--	400	20	1					0	0	1	20	400	--		Spare	78
79	Spare		--	400	20	1	0	0					1	20	400	--		Spare	80
81	Spare		--	400	20	1			0	0			1	20	400	--		Spare	82
83	Spare		--	400	20	1					0	0	1	20	400	--		Spare	84
					LOAD:		6480 VA		8280 VA		7560 VA								
					AMPS:		54 A		70 A		64 A								

PANEL NOTES

1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG

ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT

6 PROVIDE GFCI RECEPTACLE

TOTAL

CONNECTED LOADS: 22320 VA
TOTAL CONNECTED AMP: 62 A

PANEL SCHEDULE: RP2

LOCATION: ELECTRICAL 011 | **VOLTAGE:** 120/208 Wye | **A.I.C. RATING:** SEE POWER RISER DIAGRAM
SUPPLY FROM: RP1 FEED TRHU | **PHASE:** 3 | **BUS RATING:** 225 A
MOUNTING: Surface | **WIRES:** 4 | **MAIN OC:** MLO
ENCLOSURE: Type 1

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	DOOR (VESTIBIULE 110)		1-#10, 1-#10, 1-#10	100	20	1	1000	250					1	20	100	1-#12, 1-#12, 1-#12		LIGHITNG RELAY CONTROL...	2
3	DIGITAL DISPLAY (105)		1-#12, 1-#12, 1-#12	100	20	1			180	180			1	20	100	1-#12, 1-#12, 1-#12		MONITOR (LOBBY 011)	4
5	RECEP. (MEETING ROOM 002)		1-#12, 1-#12, 1-#12	100	20	1					180	540	1	20	100	1-#12, 1-#12, 1-#12		RECEP. (OUTDOOR)	6
7	RECEP. (OUTDOOR)		1-#12, 1-#12, 1-#12	100	20	1	360	180					1	20	100	1-#12, 1-#12, 1-#12		VENDING MACHINE (LOBBY 011)	8
9	RECEP. (ADULT 109)		1-#12, 1-#12, 1-#12	100	20	1			360	180			1	20	100	1-#12, 1-#12, 1-#12		COLIER (ADULT 109)	10
11	COIN MACHINE (ADULT 109)		1-#12, 1-#12, 1-#12	100	20	1					180	540	1	20	100	1-#10, 1-#10, 1-#10		MOTORIZED SHADE (MEETING...	12
13	MOTORIZED SHADE (CHILDR. 104)		1-#10, 1-#10, 1-#10	100	20	1	648	632					1	20	100	1-#12, 1-#12, 1-#12		MOTOTRIZED SHADE (MEETING)	14
15	MOTORIZED SHADE (CHILD. 104)		1-#10, 1-#10, 1-#10	100	20	1			648	648			1	20	100	1-#10, 1-#10, 1-#10		MOTORIZED SHADE (CHILDREN'S)	16
17	MOTORIZED SHADE...		1-#12, 1-#12, 1-#12	100	20	1					648	216	1	20	100	1-#12, 1-#12, 1-#12		MOTORIZED HSADE...	18
19	MOTORIZED SHADE (STUDY		1-#12, 1-#12, 1-#12	100	20	1	648	648					1	20	100	1-#12, 1-#12, 1-#12		MOTORIZED HSADE (ADULT 109)	20
21	MOTORIZED HSADE (ADULT)		1-#12, 1-#12, 1-#12	100	20	1			648	432			1	20	100	1-#12, 1-#12, 1-#12		MOTORIZED SHADE...	22
23	FACP		1-#12, 1-#12, 1-#12	100	20	1					200	200	1	20	100	1-#12, 1-#12, 1-#12		WIFI (OUTDOOR)	24
25	WIFI (OUTDOOR)		1-#12, 1-#12, 1-#12	100	20	1	200	200					1	20	100	1-#12, 1-#12, 1-#12		WIFI (OUTDOOR)	26
27	WIFI (OUTDOOR)		1-#12, 1-#12, 1-#12	100	20	1			200	180			1	20	100	1-#12, 1-#12, 1-#12		PHONE (BREAK ROOM)	28
29	Spare		--	400	20	1					0	0	1	20	400	--		Spare	30
31	Spare		--	400	20	1	0	0					1	20	400	--		Spare	32
33	Spare		--	400	20	1			0	0			1	20	400	--		Spare	34
35	Spare		--	400	20	1					0	0	1	20	400	--		Spare	36
37	Spare		--	400	20	1	0	0					1	20	400	--		Spare	38
39	Spare		--	400	20	1			0	0			1	20	400	--		Spare	40
41	Spare		--	400	20	1					0	0	1	20	400	--		Spare	42
43	Spare		--	400	20	1	0	0					1	20	400	--		Spare	44
45	Spare		--	400	20	1			0	0			1	20	400	--		Spare	46
47	Spare		--	400	20	1					0	0	1	20	400	--		Spare	48
49	Spare		--	400	20	1	0	0					1	20	400	--		Spare	50
51	Spare		--	400	20	1			0	0			1	20	400	--		Spare	52
53	Spare		--	400	20	1					0	0	1	20	400	--		Spare	54
55	Spare		--	400	20	1	0	0					1	20	400	--		Spare	56
57	Spare		--	400	20	1			0	0			1	20	400	--		Spare	58
59	Spare		--	400	20	1					0	0	1	20	400	--		Spare	60
61	Space		--	--	--	1	--	--					1	--	--	--		Space	62
63	Space		--	--	--	1			--	--			1	--	--	--		Space	64
65	Space		--	--	--	1					--	--	1	--	--	--		Space	66
67	Space		--	--	--	1	--	--					1	--	--	--		Space	68
69	Space		--	--	--	1			--	--			1	--	--	--		Space	70
71	Space		--	--	--	1					--	--	1	--	--	--		Space	72
73	Space		--	--	--	1	--	--					1	--	--	--		Space	74
75	Space		--	--	--	1			--	--			1	--	--	--		Space	76
77	Space		--	--	--	1					--	--	1	--	--	--		Space	78
79	Space		--	--	--	1	--	--					1	--	--	--		Space	80
81	Space		--	--	--	1			--	--			1	--	--	--		Space	82
83	Space		--	--	--	1					--	--	1	--	--	--		Space	84
					LOAD:		4766 VA		3656 VA		2704 VA								
					AMPS:		41 A		32 A		23 A								

PANEL NOTES

1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG

ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT

6 PROVIDE GFCI RECEPTACLE

TOTAL

CONNECTED LOADS: 11126 VA
TOTAL CONNECTED AMP: 31 A

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PANEL SCHEDULES

E6.03
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22057

PANEL SCHEDULE: RMP1

LOCATION: ELECTRICAL 011 | **VOLTAGE:** 120/208 Wye | **A.I.C. RATING:** SEE POWER RISER DIAGRAM
SUPPLY FROM: MDP | **PHASE:** 3 | **BUS RATING:** 300 A
MOUNTING: Surface | **WIRES:** 4 | **MAIN OC:** MLO
ENCLOSURE: Type 1

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	EWH-1		2-#8, 1-#8, 1-#8	100	30	2	2400	188					2	15	100	2-#12, 1-#12, 1-#12		AC-5/AC-6/CA-7	2
3	--		--	--	--	--			2400	188			--	--	--	--		--	4
5	AC-1/AC-2/AC-3/AC-4		2-#12, 1-#12, 1-#12	100	15	2					250	550	2	20	100	2-#12, 1-#12, 1-#12		EWH-2	6
7	--		--	--	--	--	250	550					--	--	--	--		--	8
9	EWH-6		2-#12, 1-#12, 1-#12	100	20	2			550	6989			3	60	100	3-#4, 1-#4, 1-#10		DOAS-1-B	10
11	--		--	--	--	--					550	6989	--	--	--	--		--	12
13	DOAS-1-A		3-#8, 1-#8, 1-#10	100	35	3	2930	6989					--	--	--	--		--	14
15	--		--	--	--	--			2930	104			2	15	100	2-#12, 1-#12, 1-#12		DSSAC-3 (IT ROOM)	16
17	--		--	--	--	--					2930	104	--	--	--	--		--	18
19	DSSAC-1 (ELEC 011)		2-#12, 1-#12, 1-#12	100	15	2	104	313					2	15	100	2-#12, 1-#12, 1-#12		AC-10/AC-11/AC-12/AC-13/AC-26	20
21	--		--	--	--	--			104	313			--	--	--	--		--	22
23	DSSCU-1 (OUTDOOR)		2-#10, 1-#10, 1-#10	100	30	2					1976	4083	3	45	100	3-#6, 1-#6, 1-#10		ACCU-1 (OUTDOOR)	24
25	--		--	--	--	--	1976	4083					--	--	--	--		--	26
27	DSSCU-3 (OUTDOOR)		2-#8, 1-#8, 1-#8	100	30	2			1976	4083			--	--	--	--		--	28
29	--		--	--	--	--					1976	188	2	15	100	2-#12, 1-#12, 1-#12		AC-14/AC-15/AC-17	30
31	AC-16/AC-18/AC-19/AC-28		2-#12, 1-#12, 1-#12	100	15	2	250	188					--	--	--	--		--	32
33	--		--	--	--	--			250	250			2	15	100	2-#12, 1-#12, 1-#12		AC-20/AC-21/AC-22/AC-27	34
35	AC-23/AC-24/AC-25		2-#12, 1-#12, 1-#12	100	15	2					188	250	--	--	--	--		--	36
37	--		--	--	--	--	188	104					2	15	100	2-#12, 1-#12, 1-#12		AC-29	38
39	AC-8/AC-9		2-#12, 1-#12, 1-#12	100	15	2			125	104			--	--	--	--		--	40
41	--		--	--	--	--					125	3000	3	35	100	3-#8, 1-#8, 1-#10		DHWH-1 (MECHANICAL 008)	42
43	DHWR-1 (MECHANICAL 008)		1-#12, 1-#12, 1-#12	100	20	1	240	3000					--	--	--	--		--	44
45	SP-1 (MECH CLOSET 007A)		1-#10, 1-#10, 1-#10	100	20	1			696	3000			--	--	--	--		--	46
47	Spare		--	400	20	1					0	0	1	20	400	--		Spare	48
49	Spare		--	400	20	1	0	0					1	20	400	--		Spare	50
51	Spare		--	400	20	1			0	0			1	20	400	--		Spare	52
53	Spare		--	400	20	1					0	0	1	20	400	--		Spare	54
55	Spare		--	400	20	1	0	0					1	20	400	--		Spare	56
57	Spare		--	400	20	1			0	0			1	20	400	--		Spare	58
59	Spare		--	400	20	1					0	0	1	20	400	--		Spare	60
61	Spare		--	400	20	1	0	0					1	20	400	--		Spare	62
63	Spare		--	400	20	1			0	0			1	20	400	--		Spare	64
65	Spare		--	400	20	1					0	0	1	20	400	--		Spare	66
67	Spare		--	400	20	1	0	0					1	20	400	--		Spare	68
69	Spare		--	400	20	1			0	0			1	20	400	--		Spare	70
71	Spare		--	400	20	1					0	0	1	20	400	--		Spare	72
73	Spare		--	400	20	1	0	0					1	20	400	--		Spare	74
75	Spare		--	400	20	1			0	0			1	20	400	--		Spare	76
77	Spare		--	400	20	1					0	0	1	20	400	--		Spare	78
79	Spare		--	400	20	1	0	0					1	20	400	--		Spare	80
81	Spare		--	400	20	1			0	0			1	20	400	--		Spare	82
83	Spare		--	400	20	1					0	0	1	20	400	--		Spare	84
					LOAD:		23751 VA		24061 VA		23158 VA								
					AMPS:		199 A		201 A		193 A								

PANEL NOTES
1. EXTERIOR WIRING SHALL BE A MINIMUM OF #10
2. WIRING FOR EXIT AND EMERGENCY LIGHTING CIRCUITS SHALL BE A MINIMUM... #10 IN DEDICATED CONDUIT AND OUTLET BOXES.
3. SEE POWER RISER DIAGRAM FOR WIRE SIZE AND CONDUIT SIZE.
4. PROVIDE DEMAND METER TO MONITOR KITCHEN LOADS.
5. FEED-THRU LUG
ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT
6 PROVIDE GFCI RECEPTACLE

TOTAL
CONNECTED LOADS: 70971 VA
TOTAL CONNECTED AMP: 197 A

PANEL SCHEDULE: RMP2

LOCATION: ELECTRICAL 011 | **VOLTAGE:** 120/208 Wye | **A.I.C. RATING:** SEE POWER RISER DIAGRAM
SUPPLY FROM: RMP1 FEED THRU | **PHASE:** 3 | **BUS RATING:** 300 A
MOUNTING: Surface | **WIRES:** 4 | **MAIN OC:** MLO
ENCLOSURE: Type 1

Notes:

CKT	DESCRIPTION	PANEL NOTE	WIRE	Frame	Trip	P	A		B		C		P	Trip	Frame	WIRE	PANEL NOTE	DESCRIPTION	CKT
1	EWH-4 (DEDLIVERIES 101)		2-#12, 1-#12, 1-#12	100	20	2	550	550					2	20	100	2-#12, 1-#12, 1-#12		EWH-5 (STORAGE 102)	2
3	--		--	--	--	--			550	550			--	--	--	--		--	4
5	EWH-7 (STORAGE 103)		2-#12, 1-#12, 1-#12	100	20	2					550	2400	2	30	100	2-#8, 1-#8, 1-#8		EWH-3 (VESTIBULE 110)	6
7	--		--	--	--	--	550	2400					--	--	--	--		--	8
9	BCC-1 (STORAGE 010)		2-#12, 1-#12, 1-#12	100	20	2			125	113			2	20	100	2-#12, 1-#12, 1-#12		BCC-2 AND BCC-1 (STORAGE 010)	10
11	--		--	--	--	--					125	113	--	--	--	--		--	12
13	Spare		--	400	20	1	0	--					1	--	--	--		Space	14
15	Spare		--	400	20	1			0	--			1	--	--	--		Space	16
17	Spare		--	400	20	1					0	--	1	--	--	--		Space	18
19	Spare		--	400	20	1	0	--					1	--	--	--		Space	20
21	Spare		--	400	20	1			0	--			1	--	--	--		Space	22
23	Spare		--	400	20	1					0	--	1	--	--	--		Space	24
25	Spare		--	400	20	1	0	--					1	--	--	--		Space	26
27	Spare		--	400	20	1			0	--			1	--	--	--		Space	28
29	Spare		--	400	20	1					0	--	1	--	--	--		Space	30
31	Spare		--	400	20	1	0	--					1	--	--	--		Space	32
33	Spare		--	400	20	1			0	--			1	--	--	--		Space	34
35	Spare		--	400	20	1					0	--	1	--	--	--		Space	36
37	Spare		--	400	20	1	0	--					1	--	--	--		Space	38
39	Spare		--	400	20	1			0	--			1	--	--	--		Space	40
41	Spare		--	400	20	1					0	--	1	--	--	--		Space	42
43	Spare		--	400	20	1	0	--					1	--	--	--		Space	44
45	Spare		--	400	20	1			0	--			1	--	--	--		Space	46
47	Spare		--	400	20	1					0	--	1	--	--	--		Space	48
49	Spare		--	400	20	1	0	--					1	--	--	--		Space	50
51	Spare		--	400	20	1			0	--			1	--	--	--		Space	52
53	Spare		--	400	20	1					0	--	1	--	--	--		Space	54
55	Spare		--	400	20	1	0	--					1	--	--	--		Space	56
57	Spare		--	400	20	1			0	--			1	--	--	--		Space	58
59	Spare		--	400	20	1					0	--	1	--	--	--		Space	60
61	Space		--	--	--	1	--	--					1	--	--	--		Space	62
63	Space		--	--	--	1			--	--			1	--	--	--		Space	64
65	Space		--	--	--	1					--	--	1	--	--	--		Space	66
67	Space		--	--	--	1	--	--					1	--	--	--		Space	68
69	Space		--	--	--	1			--	--			1	--	--	--		Space	70
71	Space		--	--	--	1					--	--	1	--	--	--		Space	72
73	Space		--	--	--	1	--	--					1	--	--	--		Space	74
75	Space		--	--	--	1			--	--			1	--	--	--		Space	76
77	Space		--	--	--	1					--	--	1	--	--	--		Space	78
79	Space		--	--	--	1	--	--					1	--	--	--		Space	80
81	Space		--	--	--	1			--	--			1	--	--	--		Space	82
83	Space		--	--	--	1					--	--	1	--	--	--		Space	84
					LOAD:		4050 VA		1338 VA		3188 VA								
					AMPS:		36 A		11 A		29 A								

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5. FEED-THRU LUG
ST CIRCUIT BREAKER WITH SHUNT TRIP UNIT
6 PROVIDE GFCI RECEPTACLE

TOTAL
CONNECTED LOADS: 8576 VA
TOTAL CONNECTED AMP: 24 A

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