



**MAINTENANCE BUILDING - CODE**

A APPLICABLE CODES			
1	INTERNATIONAL BUILDING CODE / 2018		
2	INTERNATIONAL ENERGY CONSERVATION CODE / 2018		
3	INTERNATIONAL MECHANICAL CODE - IMC 2018		
4	NATIONAL ELECTRICAL CODE - NEC 2017 NFPA 70		
5	NATIONAL PLUMBING CODE - IPC 2018		
6	NATION FIRE PROTECTION ASSOCIATION - FIRE CODE 1 / 2018		
7	NATION FIRE PROTECTION ASSOCIATION - LIFE SAFETY CODE 101 / 2018		
8	MARYLAND ACCESSIBILITY CODE: MAC 2012 REF: COMAR 05.02.02		

B USE GROUP / OCCUPANCY AND CONSTRUCTION TYPE			
<b>MAINTENANCE BUILDING</b>			
1	USE GROUP / OCCUPANCY		
	GROUP S1 : STORAGE		
2	CONSTRUCTION TYPE		
	TYPE VB (NON-SPRINKLERED): IBC 2018		
3	BUILDING HEIGHT LIMITATION		
	BUILDING HEIGHT ALLOWABLE = 40'-0" (IBC TABLE 504.3)		
	ALLOWABLE HEIGHT 1 STORY (IBC TABLE 504.4)		
	ACTUAL HEIGHT = 1 STORY AT 17'-8"		

C BUILDING AREAS			
MAINTENANCE BUILDING = 4,019 SF			
MAXIMUM ALLOWABLE AREA (IBC TABLE 506.2) = 9,000 SF			

D OCCUPANCY LOADS			
USE : STORAGE S1			
IBC 2018 TABLE 1004.5 : 300 SF GROSS / PERSON			

E FLOOR BY FLOOR OCCUPANT LOAD CALCULATIONS				
	USE	TOTAL FLOOR AREA (SQ.FT.)	OL FACTOR (PERSONS / SQ.FT.)	OL (PERSONS)
	S1	4,047 SF	300	14

F EGRESS WIDTH			
		IBC 2018	LIFE SAFETY TABLE - 7.3.3.1
EGRESS WIDTH AT DOORS		0.2" PER OCCUPANT	0.2" PER OCCUPANT
EGRESS WIDTH AT CORRIDORS		0.2" PER OCCUPANT	0.2" PER OCCUPANT
PROPOSED DOOR WIDTH = 36 INCHES			

G OCCUPANCY LOADS AND EGRESS REQUIREMENTS			
LOCATION (SPACES)	CORRIDOR / EGRESS / DOOR		
ALLOWANCE PER OCCUPANT (NFPA 7.3.3.1)	0.3"		
EGRESS WIDTH REQUIRED (NFPA 7.3.3.1)	0.3" * 66 = 19.98"		
EGRESS WIDTH PROVIDED (IN INCHES)	48"		
NUMBER OF EXITS	REQUIRED	2 PER NFPA 42.2.4 & 7.4.1.1 - 7.4.1.2	
	PROVIDED	4 - NEW	

H FIRE PROTECTION SYSTEM REQUIREMENTS			
	SYSTEM REQ.(YES / NO)	IBC 2018 REF.	NFPA 101-2018 REF.
AUTOMATIC SPRINKLERS	NO	903	9.7
FIRE EXTINGUISHER SYSTEM	NO	904.1	---
STANDPIPE SYSTEMS	NO	905.3	---
PORTABLE FIRE EXTINGUISHERS	YES	906.1	42.3.5 & 9.9
FIRE ALARM SYSTEM		907	42.3.4.1
EMERGENCY ALARM SYSTEM		907.2	
SMOKE CONTROL SYSTEM	NO	909.1	9.6.5.2 (1)

I MAXIMUM DEAD END / DISTANCE			
USE GROUP	S1-STORAGE		
IBC - 2018	PROVIDED NO MORE THAN 46' WITH NO SPRINKLER SYSTEM		

J INTERIOR FINISH REQUIREMENTS			
	CLASS	FLAME SPREAD	SMOKE DEVELOPMENT
IBC - 2018 (TABLE - 803.11)	C	76-200	0-450
NFPA - 2018 (CHAPTER 10)	C	76-200	0-450

K INTERIOR FINISH REQUIREMENTS			
	CLASS	FLAME SPREAD	SMOKE DEVELOPMENT
IBC - 2018 (TABLE - 803.11) SPRINKLERED			0-450
BUSINESS ROOMS AND ENCLOSED SPACE	C	76-200	0-450
NFPA - 2018 (CHAPTER 10)	C	76-200	0-450

L MAXIMUM TRAVEL DISTANCE TO EXIT			
ACTUAL			
SHOW ON LIFE SAFETY PLAN	IBC - 2018	NFPA - 2018	
	(TABLE - 1017.2)	(42.2.6)	
ALLOWABLE - W/O SPINKLER SYSTEM	200'	200'	

M MINIMUM CORRIDOR WIDTH EXIT			
LOCATION	WIDTH REQUIRED 44"	IBC 2018	NFPA 101 2018
EGRESS	PROVIDED 60"	TABLE 1020.2	

N PANIC HARDWARE				
LOCATION	REQUIRED	REQUIRED	IBC 2018	NFPA 101 - 2018
EXIT	YES	YES	1010.1.10	7.2.1.7, 42.2.2.1

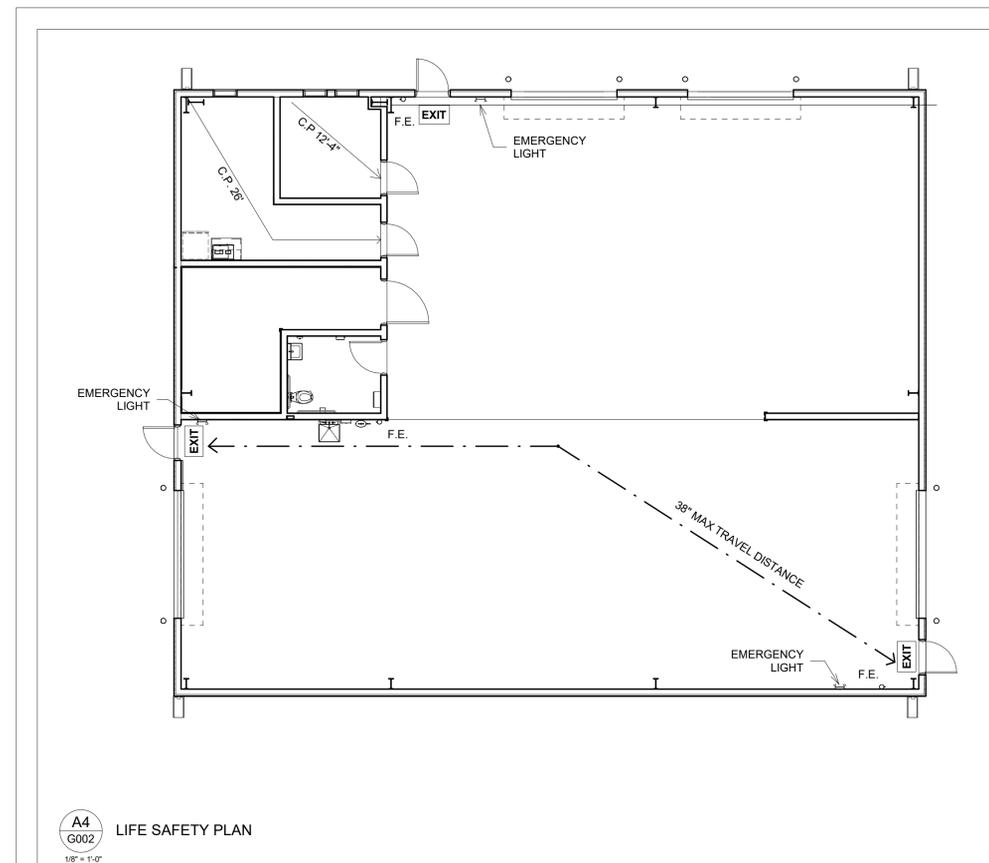
O FIRE RESISTANCE RATINGS	
PER IBC TABLE 601 FOR CONSTRUCTION TYPE 3B & IBC TABLE 601-602	
	RATING
STRUCTURAL ELEMENT	0 HR
STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

P INTERNATIONAL PLUMBING CODE 2018			
	2018 IBC	2018 IPC	PROVIDED
NUMBER OF TOILET FIXTURES	1 PER 100	1 PER 100	1
NUMBER OF LAVATORIES	1 PER 100	1 PER 100	1
NUMBER OF DRINKING FOUNTAINS	1 PER 1000	1 PER 100	1

CHAPTER 11:  
ACCESSIBILITY REQUIREMENTS: BUILDING WILL COMPLY WITH ADA AMERICANS WITH DISABILITIES ACT, 2010

Q ENERGY CODE MARYLAND CLIMATE ZONE - 4A			
BUILDING ENVELOPE REQUIREMENTS	REQUIRED 'U' VALUE	REQUIRED 'R' VALUE	PROVIDED
	U = 1 / R	R = 1 / U	
ROOFS			
METAL BUILDINGS	U0.033	R 19 + R11 CI	YES
ATTIC	U0.026	R 38	YES
WALLS			
MASS	U0.104	R 9.5 CT (CONT. INSUL.)	YES
METAL FRAMED	U0.064	R 13 + R13 CI	YES
BELOW GRADE WALL	U0.119	R 7.5 CI	N/A
FLOORS			
MASS	U0.076	R 10 CI	YES
SLAB ON GRADE			
HEATED SLAB	F0.65	R 15 FOR 24" BELOW	YES
UNHEATED SLAB	F0.54	R 10 FOR 24" BELOW	YES
DOORS			
ENTRANCE DOOR	U0.77	R 1.29	YES
WINDOWS			
FIXED FENESTRATION	U0.38	R 2.63	YES
OPERABLE FENESTRATION	U0.45	R 2.22	N/A
MINIMUM ROOF REFLECTANCE / EMITTANCE			
INITIAL SOLAR REFLECTANCE	0.70		YES
INITIAL THERMAL REFLECTANCE	0.75		YES

LEGEND	
	NEW WALLS
	SMOKE PARTITION
	1 HR RATED WALL ASSEMBLY
	2 HR RATED WALL ASSEMBLY
	COMMON PATH OF EGRESS
	EXIT ACCESS TRAVEL DISTANCE
	SECOND MEANS OF EGRESS PATH
	EMERGENCY LIGHTING
	EXIT SIGNAGE
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET



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PROJECT NAME:

**WARD RECREATION  
MAINTENANCE  
FACILITY**  
CALVERT COUNTY

75 CD  
28 FEBRUARY 2025

COLIMORE PROJECT NO: 24-024



MARK	DATE	DESCRIPTION

DRAWN BY: HHB

CHECKED BY: AB

**BUILDING CODE REVIEW & LIFE SAFETY PLAN**

**G002**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

**ARCHITECTURAL SYMBOLS**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELEVATION		NORTH ARROW
	DETAIL ENLARGEMENT		COLUMN LINE
	WALL SECTION		SPOT ELEVATION
	BUILDING SECTION		BUILDING LEVEL
	DRAWING TITLE		ROOM IDENTIFICATION
	DETAIL TITLE		DOOR SYMBOL
	DETAIL WHERE DETAILS REFERENCED		WINDOW SYMBOL
		<b>BUILDING ASSEMBLY TYPES</b>	
			WALL AND PARTITION TYPES
			ROOF TYPES
			FLOOR TYPES
			CEILING TYPES

**ARCHITECTURAL ABBREVIATIONS**

&	AND	CLR	CLEAR	FB	FLAT BAR	LAB	LABORATORY	PERF	PERFORATED	T&G	TONGUE & GROOVE
<	ANGLE	CMU	CONCRETE MAS UNIT	FD	FLOOR DRAIN	LAM	LAMINATE	PLAM	PLASTIC LAMINATE	TA	TOILET ACCESSORY
@	AT	CO	CLEANOUT	FDN	FOUNDATION	LAV	LAVATORY	PLAS	PLASTER	TC	TOP OF CURB
[	CENTER LINE	COL	COLUMN	FEC	FIRE EXTINGUISHER CABINET	LH	LEFTHAND	PLBG	PLUMBING	TEL	TELEPHONE
Ø	CHANNEL DIAMETER OR ROUND	COMB	COMBINATION	F EXT	FIRE EXTINGUISHER	LPT	LOWPOINT	PLYWD	PLYWOOD	TEMP	TEMPORARY
⊥	PERPENDICULAR	CONC	CONCRETE	FH	FLAT HEAD SCREW	LT	LIGHT	PNL	PANEL	TERR	TERRAZZO
#	POUND OR NUMBER	CONN	CONNECTION	FHC	FIRE HOSE CABINET	LVR	LOUVER	PR	PAIR	THK	THICKNESS
(E)	EXISTING	CONSTR	CONSTRUCTION	FIN	FINISH	MACH	MACHINE	PT	PRESSURE TREATED	TKBD	TACKBOARD
SQ	SQUARE	CONT	CONTINUOUS	FIN FL	FINISH FLOOR	MAS	MASONRY	PTD	PAINTED	TP	TOP OF PAVEMENT
SQ. FT.	SQUARE FEET	COORD	COORDINATE	FLR	FLOOR (ING)	MATL	MATERIAL	PTN	PARTITION	TS	TOP OF STEEL
ABV	ABOVE	CONTR	CONTRACT (OR)	FT	FACE OF WALL	MAX	MAXIMUM	TYP	TYPICAL	TW	TOP OF WALL
ACOUS	ACOUSTICAL	CORR	CORRIDOR	FTG	FEET OR FOOT FOOTING	MECH	MECHANICAL	R	RISER	TYP	TYPICAL
AFF	ABOVE FINISHED FLOOR	CSFH	COUNT SUNK FLAT HEAD COUNTER SUNK	GA	GAGE	MEMB	MEMBRANE	RD	RADIUS	UC	UNDERCUT
AGGR	AGGREGATE	CSK	COUNTER SUNK	GALV	GALVANIZED	MET	METAL	REF	REFERENCE	UNFIN	UNFINISHED
AL	ALUMINUM	DBL	DOUBLE	GEN	GENERAL	MFR	MANUFACTURER	REIN	REINFORCEMENT (ING)	UNO	UNLESS NOTED OTHERWISE
APPROX	APPROXIMATELY	DEPT	DEPARTMENT	GL	GLAZING	MH	MANHOLE	REQD	REQUIRED	VB	VINYL BASE
ARCH	ARCHITECT (URAL)	DET	DETAIL	GWB	GYPSUM WALLBOARD	MIN	MINIMUM, MINUTE	RESIL	RESILIENT	VCT	VINYL COMPOSITION TILE
BD	BOARD	DF	DRINKING FOUNTAIN	HC	HOLLOW CORE	MISC	MISCELLANEOUS	RH	RIGHT HAND	VERT	VERTICAL
BITUM	BITUMINOUS	DIA	DIAMETER	HCPD	HANDICAPPED	MO	MASONRY OPENING MOUNTED	RM	ROOM	VEST	VESTIBULE
BLDG	BUILDING	DIM	DIMENSION	HDW	HARDWARE	MTD	MOUNTED	RO	ROUGH OPENING	VT	VINYL TILE
BLK	BLOCK	DN	DOWN	HM	HOLLOW METAL	N	NORTH	S	SOUTH	SC	SOLID CORE
BLKG	BLOCKING	DWG	DRAWING	HORIZ	HORIZONTAL	NA	NOT APPLICABLE	SCHED	SCHEDULE	SD	SCHEDULE
BM	BEAM	E	EAST	HPT	HIGH POINT	NIC	NOT IN CONTRACT	SECT	SECTION	SH	SHEET
BOT	BOTTOM	EA	EACH	HT	HEIGHT	NO	NUMBER	SHT	SHEET	SIM	SIMILAR
BRK	BRICK	EL	ELEVATION	ID	INSIDE DIAMETER	NOM	NOMINAL	SPEC	SPECIFICATION	SQ FT	SQUARE FOOT
BTWN	BETWEEN	ELEC	ELECTRICAL	INSUL	INSULATION	NRCA	NATIONAL ROOFING COUNCIL OF AMERICA NOT TO SCALE	SSK	SERVICE SINK	STD	STANDARD
BUR	BUILT-UP ROOF	ELEV	ELEVATOR	INTR	INTERIOR	OA	OVERALL	SST	STAINLESS STEEL	STL	STEEL
C&G	CURB & GUTTER	EMER	EMERGENCY	JAN	JANITOR	OC	ON CENTER	STOR	STORAGE	STRUC	STRUCTURAL
CEM	CEMENT	ENCL	ENCLOSURE	JT	JOINT	OD	OUTSIDE DIAMETER	SUSP	SUSPENDED		
CEM PLAS	CEMENT PLASTER	EP	ELECTRICAL PANEL	KIT	KITCHEN	OPP	OPPOSITE				
CER	CERAMIC	EQ	EQUAL	KO	KNOCKOUT	OVHD	OVERHEAD				
CER TILE	CERMIC TILE	EQUIP	EQUIPMENT								
CL	CENTERLINE	EXIST.	EXISTING								
CLG	CEILING	EXP JT	EXPANSION JOINT								
CLJ	CEILING JOINT	EXT	EXTERIOR								
CLO	CLOSET										

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**NEW WORK GENERAL NOTES:**

- DO NOT SCALE THE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES, BOUNDARIES AND TYPE OF CONSTRUCTION BEFORE PROCEEDING WITH THE WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES TO A/E. THE DIMENSIONS SHOWN FOR NEW CONSTRUCTION ARE APPROXIMATE.
- ALL WORK SHALL BE DONE IN WORKMANLIKE MANNER AND IN CONFORMANCE WITH ALL MANUFACTURER'S INSTALLATION AND GUARANTEE REQUIREMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL AUTHORITIES, CODES, RULES, AND REGULATIONS.
- CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATION OF ALL BUILDING TRADES AND NECESSARY INSPECTIONS DURING AND AFTER CONSTRUCTION. CONTRACTOR SHALL HAVE A SUPERINTENDENT ON SITE AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION.
- ANY UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL BE LIABLE FOR, AND TAKE ALL PRECAUTIONS NECESSARY TO PROTECT ALL EQUIPMENT AND BUILDING FROM DUST AND WATER DAMAGE.
- CONTRACTOR SHALL VERIFY ALL PRECAUTIONS NECESSARY WHEN OPEN FLAME OR TORCHES ARE BEING USED DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY IF OPEN FLAME OR TORCHES ARE ALLOWED, AND IF A BURNING PERMIT IS REQUIRED.
- CONTRACTOR TO SEAL TIGHT AROUND ALL PLUMBING, CONDUIT, OR DUCT PENETRATIONS THROUGH FLOORS, CEILINGS AND PARTITIONS WITH MATERIAL OF SAME FINISH AND FIRE RATING AS PENETRATED BUILDING COMPONENT.
- THE CONTRACTOR IS SPECIFICALLY RESPONSIBLE FOR ALL MEANS AND METHODS OF JOB SITE SAFETY.
- CONTRACTOR SHALL ENSURE THAT NUMBERED REFERENCE NOTES ARE READ IN CONJUNCTION WITH A REFERENCE NOTE EXPLANATION. INDIVIDUAL DRAWINGS SHOULD NOT BE READ IN ISOLATION BY THE CONTRACTOR'S WORKMEN OR HIS SUBCONTRACTORS. A REFERENCE NOTE ON A DRAWING MAY OR MAY NOT BE IDENTIFIED BY A NOTE EXPLANATION ON THE SAME DRAWING SHEET.
- PROTECT ALL NEW OPENINGS FROM ELEMENTS THROUGHOUT CONSTRUCTION.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT OR BY OTHERS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN FULL.
- ANY CONFLICT IN THE DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS IS TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
- FURNISH AND INSTALL APPROPRIATE BLOCKING IN WALLS FOR ALL WALL HUNG ITEMS, I.E. CABINETS, SHELVING, COUNTERS, ETC.
- REFERENCE NOTES THAT INDICATE A SPECIFIC PRODUCT AND USE THE PHRASE "...OR EQUAL" OR "EQUAL TO..." ARE INTENDED TO DEFINE A MINIMUM STANDARD FOR THE REFERENCED MATERIAL OR COMPONENT.

- UNLESS OTHERWISE NOTED, PROVIDE FLOOR FINISH TRANSITIONS AT ALL LOCATIONS WHERE DIS-SIMILAR FLOOR MATERIALS ABUT.
- AT COMPLETION OF CONSTRUCTION, CONTRACTOR TO CLEAN ALL AREAS OF DEBRIS, DIRT, DUST, ETC. AND PREPARE THE AREA FOR ITS INTENDED USE.
- WHERE DOOR IS LOCATED NEAR CORNER OR ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 6-INCHES FROM FACE OF PARTITION TO DOOR OPENING.
- UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO COLUMN GRID CENTERLINES AND FACE OF GYPSUM BOARD PARTITIONS. WALL PROTECTION, CERAMIC TILE, EXTRA LAYERS OF GYPSUM BOARD AND OTHER WALL FINISHES ARE INSTALLED BEYOND DIMENSION LINE.
- DIMENSIONS NOTED "CLEAR" ARE TO FACE OF PARTITION FINISH.
- DIMENSION NOTED "HOLD" SHALL BE MAINTAINED.
- ALL ELECTRICAL AND MECHANICAL WORK SHALL BE PERFORMED BY PERSONNEL LICENSED BY THE STATE OF MARYLAND.
- THE OWNER WILL FILE, PICK-UP AND PAY FOR THE BUILDING PERMIT. THE CONTRACTOR AWARDED WILL BE RESPONSIBLE TO AMEND THE PERMIT NAME AND PROVIDE THE CONTRACTOR LICENSE NUMBER. PERMITS SHALL BE CONSPICUOUSLY POSTED AT JOB SITE.
- CONTRACTOR SHALL PROVIDE MSDS SPECIFICATIONS TO COMPLY WITH OSHA, AS PART OF SUBMITTAL PROCESS.
- FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGE IN MATERIAL, AND AS REQUIRED BY APPLICABLE STATE HEALTH DEPARTMENT.

**GENERAL NOTES - CEILING WORK**

- SUSPENDED LAY-IN CEILING GRIDS SHALL BE CENTERED WITHIN THE ROOM UNLESS INDICATED OTHERWISE ON THE REFLECTED CEILING PLAN.
- ALL CUT-OUTS FOR DIFFUSERS, LIGHT FIXTURES, SPRINKLER HEADS, ETC., SHALL BE CENTERED IN LAY-IN PANELS, OR CENTERED IN THE 2'x2' UNIT OF 2'x4' SCORED PANEL UNLESS INDICATED OTHERWISE. ALL PENETRATIONS THRU CEILING SHALL BE SEALED WITH SEALANT.
- IF NOT INDICATED ON PLANS, LOCATE SUSPENDED LAY-IN CEILING GRID SYMMETRICALLY ABOUT THE CENTER OF THE ROOMS OR SPACES, IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTED ON THE REFLECTED CEILING PLAN.
- LOCATE ALL ALL CUT-OUTS FOR DIFFUSERS, LIGHT FIXTURES, SPRINKLER HEADS, SMOKE DETECTORS AND OTHER CEILING MOUNTED MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, ETC. SHALL BE CENTERED IN LAY-IN PANELS, OR CENTERED IN THE 2'x2' UNIT OF 2'x4' SCORED PANEL UNLESS INDICATED OTHERWISE. LIGHTING LOCATIONS AS SHOWN TAKE PRECEDENCE.
- COORDINATE THE LAYOUT OF THE CEILING FRAMING TO ACHIEVE THE LOCATIONS, AS SHOWN ON THE MECHANICAL, ELECTRICAL AND PLUMBING ITEMS EXPOSED TO VIEW, INCLUDING, BUT NOT LIMITED TO LIGHT FIXTURES, AIR DIFFUSERS AIR RETURNS, SPRINKLER HEADS, SPEAKERS, SMOKE DETECTORS, ETC.
- MAINTAIN CLEARANCE BETWEEN CEILING FRAMING AND ALL DUCTWORK.
- LAYOUT CEILING FIXTURES IN ACCORDANCE WITH DRAWINGS. COORDINATE LOCATIONS OF DUCTWORK TO PREVENT CONFLICTS.
- MAINTAIN ALIGNMENT IN LOCATING CEILING FIXTURES, I.E. DIFFUSERS, LIGHTS, ETC., KEEPING AS CLOSE AS POSSIBLE TO DUCTWORK ABOVE CEILING, WHEN NECESSARY.
- LOCATION OF MECHANICAL, ELECTRICAL AND PLUMBING ITEMS SHOWN ON REFLECTED CEILING PLANS ARE FOR ARCHITECTURAL COORDINATION. NOT ALL ITEMS MAY BE SHOWN. SEE MEP DRAWINGS FOR LOCATION OF ADDITIONAL ITEMS.
- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE TYPE, NUMBER AND LOCATION OF CEILING MOUNTED ITEMS IN ELECTRICAL AND MECHANICAL ROOMS AND OTHER UTILITY SPACES.
- ALL LIGHT FIXTURES, TYPE, STYLE, AND SIZE ARE AS LISTED IN LEGEND. COORDINATE LOCATIONS AS SHOWN ON REFLECTED CEILING PLANS OR INTERIOR ELEVATIONS WITH ELECTRICAL DRAWINGS.
- LOCATE MECHANICAL DIFFUSERS IN SPACES WITHOUT FINISHED CEILINGS WHERE CEILINGS ARE EXPOSED TO THE STRUCTURE.
- ALL PENETRATIONS THRU THE CEILING SHALL BE SEALED WITH SEALANT.

**GENERAL ELEVATION NOTES:**

- PROTECT ALL NEW OPENINGS FROM ELEMENTS THROUGHOUT CONSTRUCTION.
- CAULK AROUND ALL WINDOWS AS REQUIRED.
- CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATION.

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MAINTENANCE  
FACILITY**  
CALVERT COUNTY

75 CD  
28 FEBRUARY 2025

COLIMORE PROJECT NO: 24-024



MARK DATE DESCRIPTION

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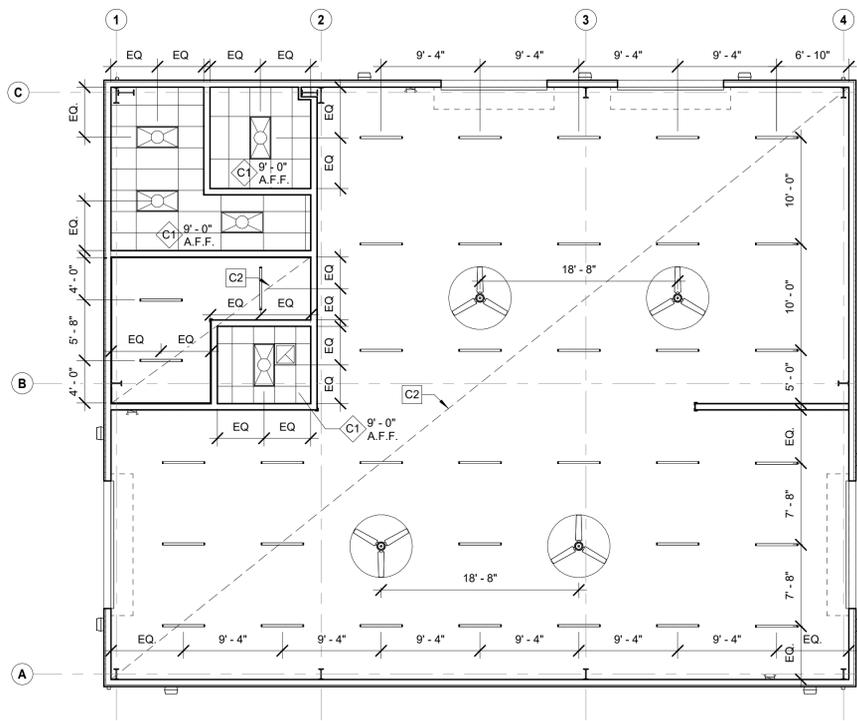
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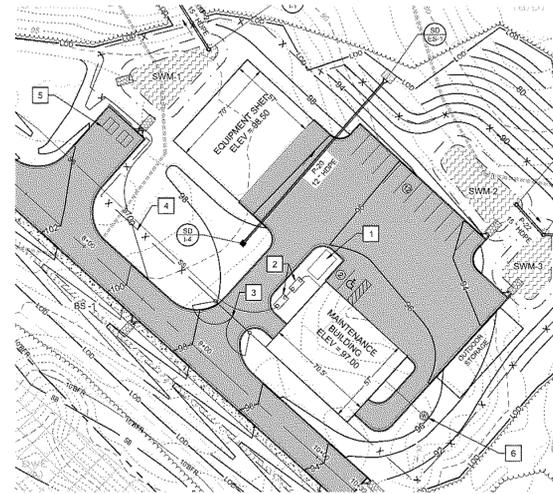
GENERAL ARCHITECTURAL NOTES

**G003**

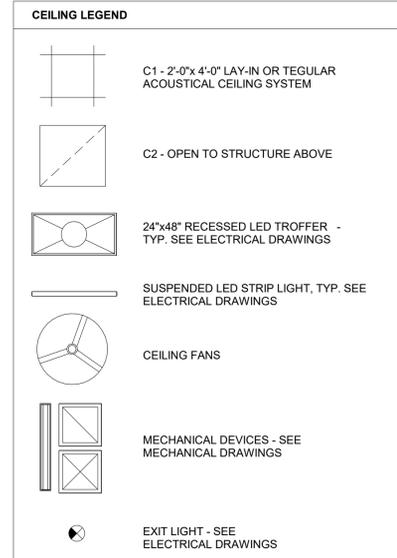
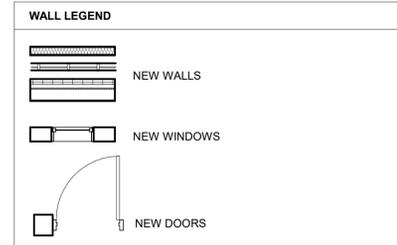
SHEET \_\_\_\_\_ OF \_\_\_\_\_



**C1**  
A101  
CEILING PLAN  
1/8" = 1'-0"



**C3**  
A101  
MAINTENANCE BUILDING SITE PLAN  
NOT TO SCALE



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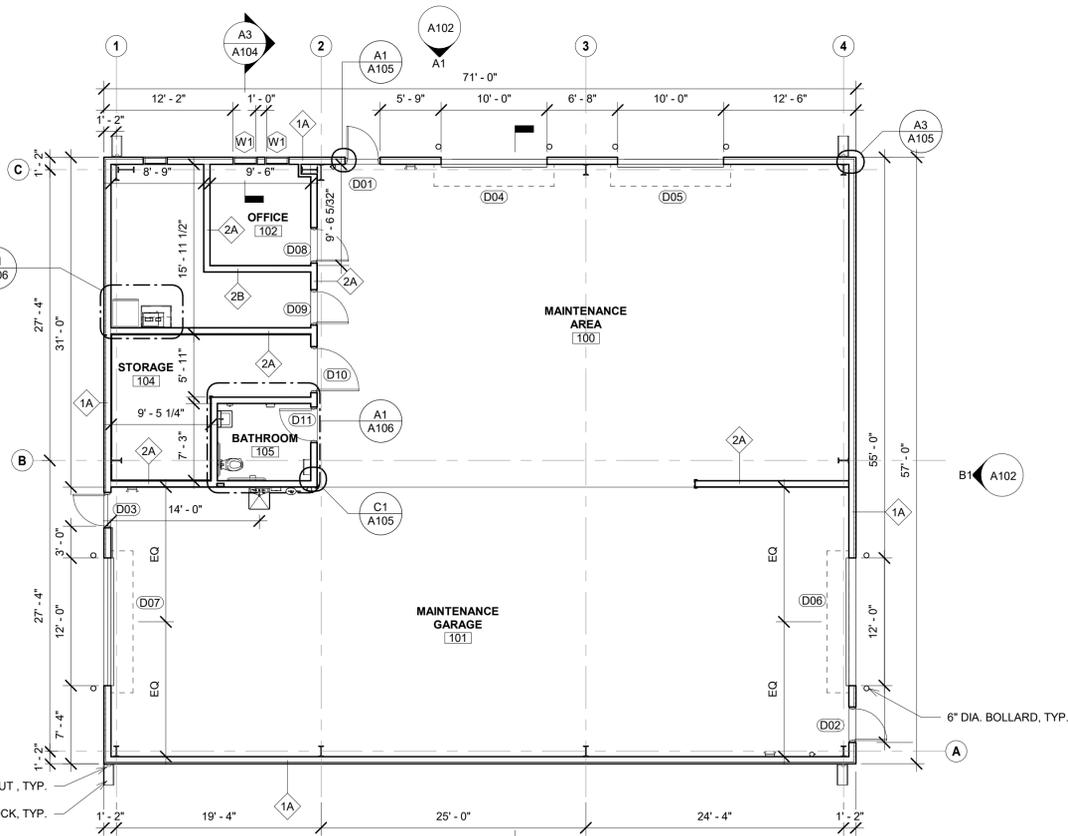
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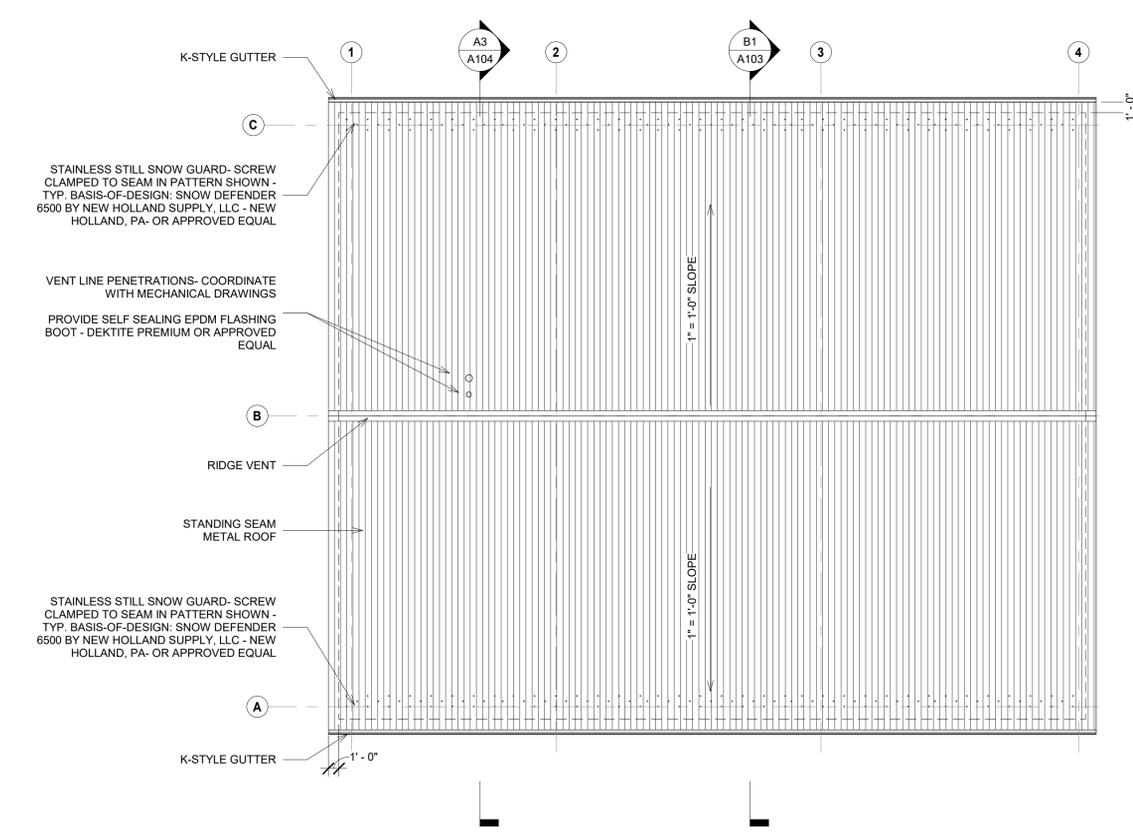
MAINTENANCE BUILDING  
FLOOR, CEILING AND ROOF  
PLANS

**A101**

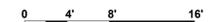
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**A1**  
A101  
FLOOR PLAN  
1/8" = 1'-0"



**A3**  
A101  
ROOF PLAN  
1/8" = 1'-0"



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PROJECT NAME:

**WARD RECREATION  
 MAINTENANCE  
 FACILITY  
 CALVERT COUNTY**

75 CD  
 28 FEBRUARY 2025

COLIMORE PROJECT NO: 24-024



MARK	DATE	DESCRIPTION

DRAWN BY: HB

CHECKED BY: AB

MAINTENANCE BUILDING  
 ELEVATIONS

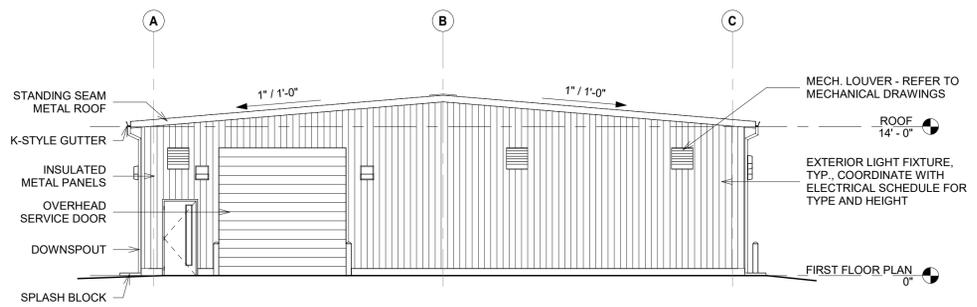
**A102**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

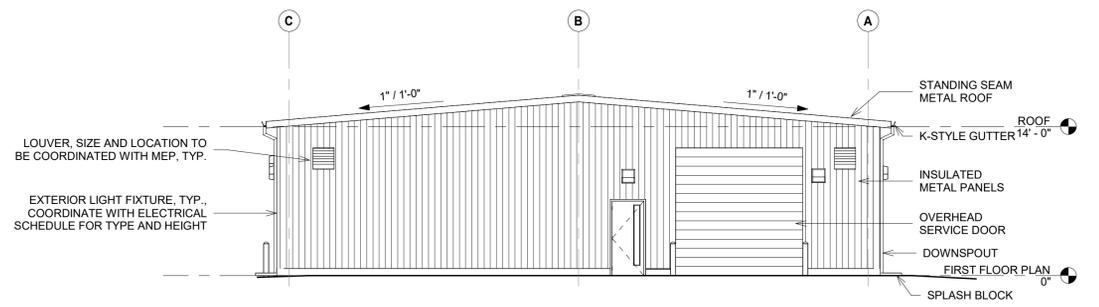
C

B

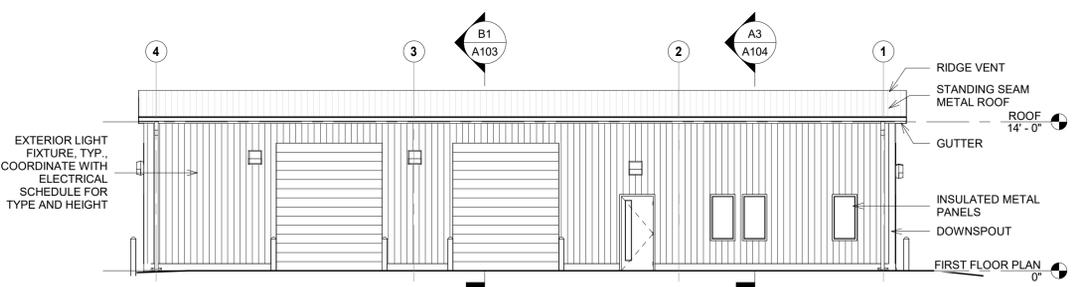
A



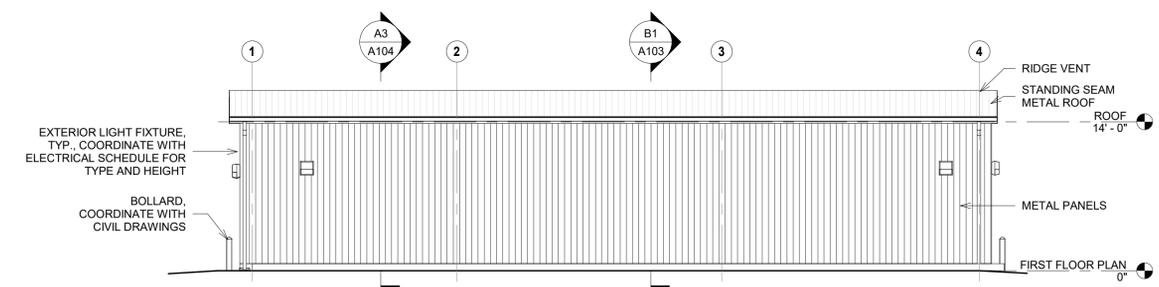
**B1**  
**A102**  
 EAST ELEVATION  
 1/8" = 1'-0"



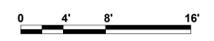
**B3**  
**A102**  
 WEST ELEVATION  
 1/8" = 1'-0"



**A1**  
**A102**  
 NORTH ELEVATION  
 1/8" = 1'-0"



**A3**  
**A102**  
 SOUTH ELEVATION  
 1/8" = 1'-0"

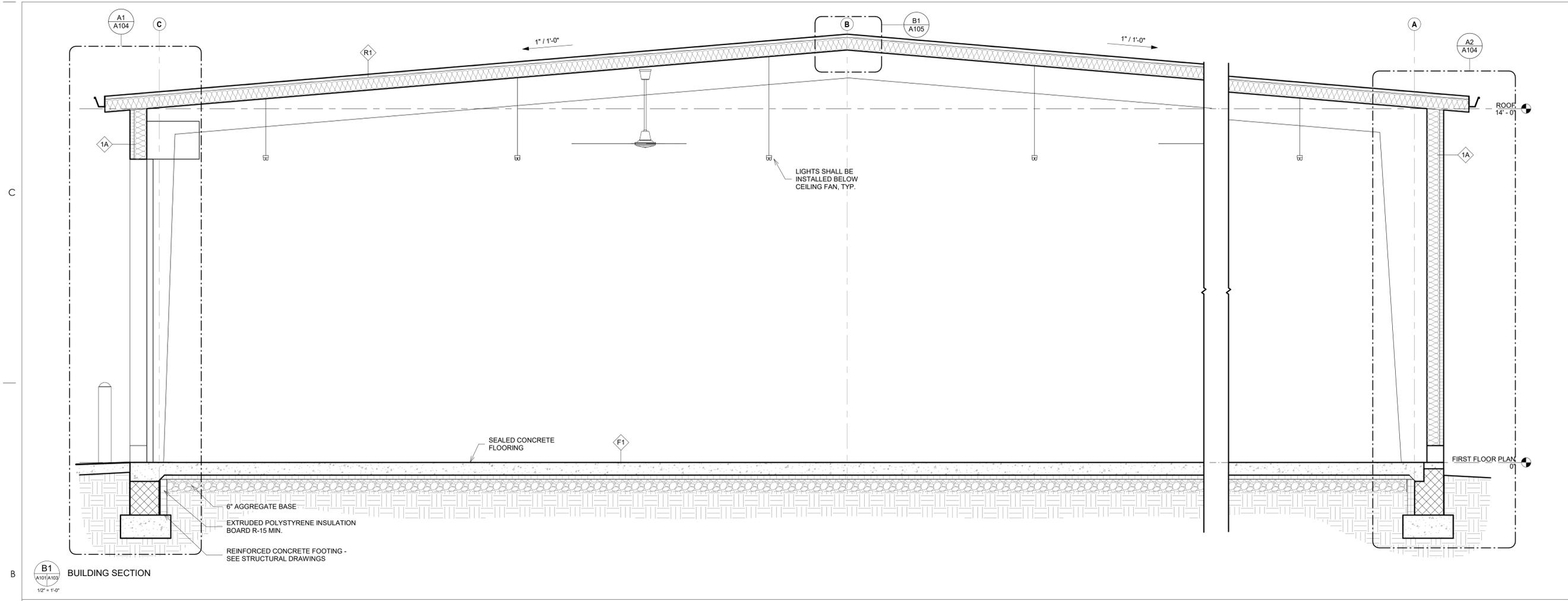


1

2

3

4



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 CALVERT COUNTY

75 CD  
 28 FEBRUARY 2025

COLIMORE PROJECT NO: 24-024



MARK	DATE	DESCRIPTION

DRAWN BY: HHB

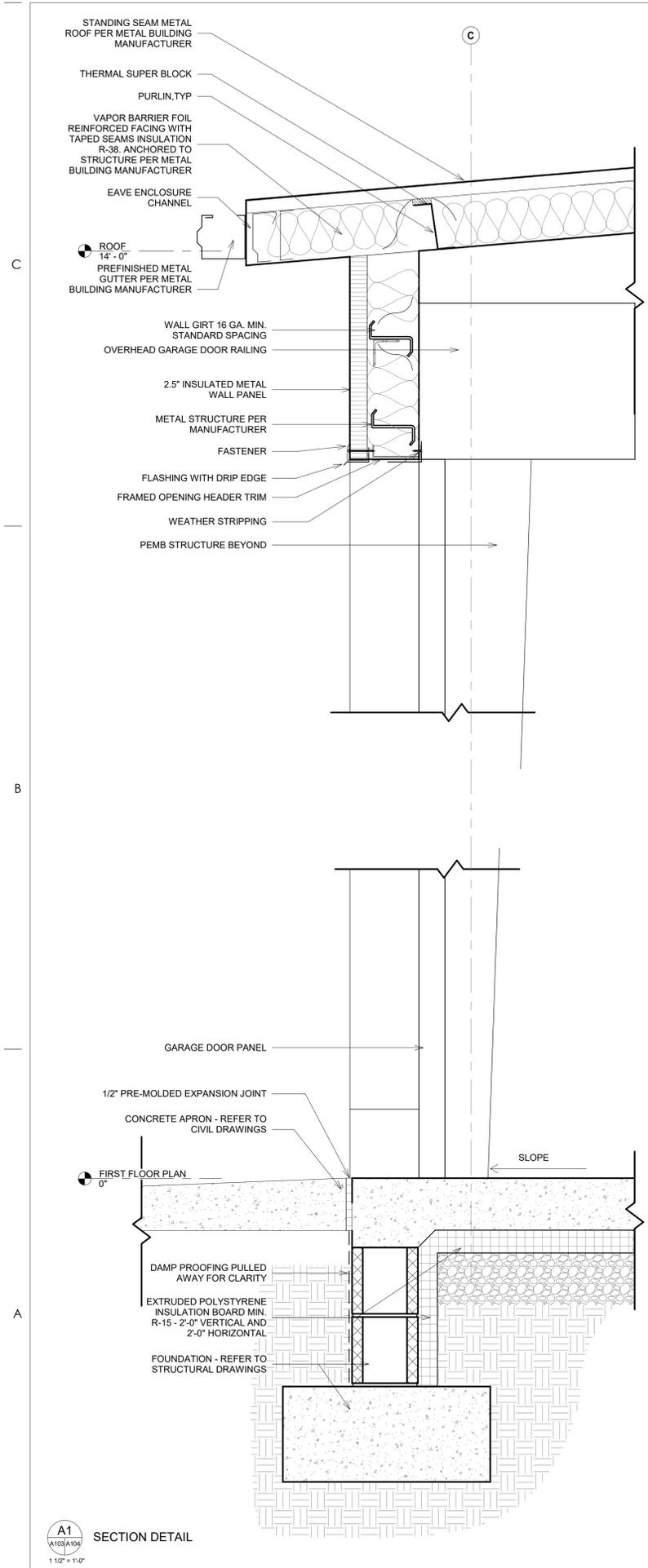
CHECKED BY: AB

MAINTENANCE BUILDING  
 BUILDING SECTIONS

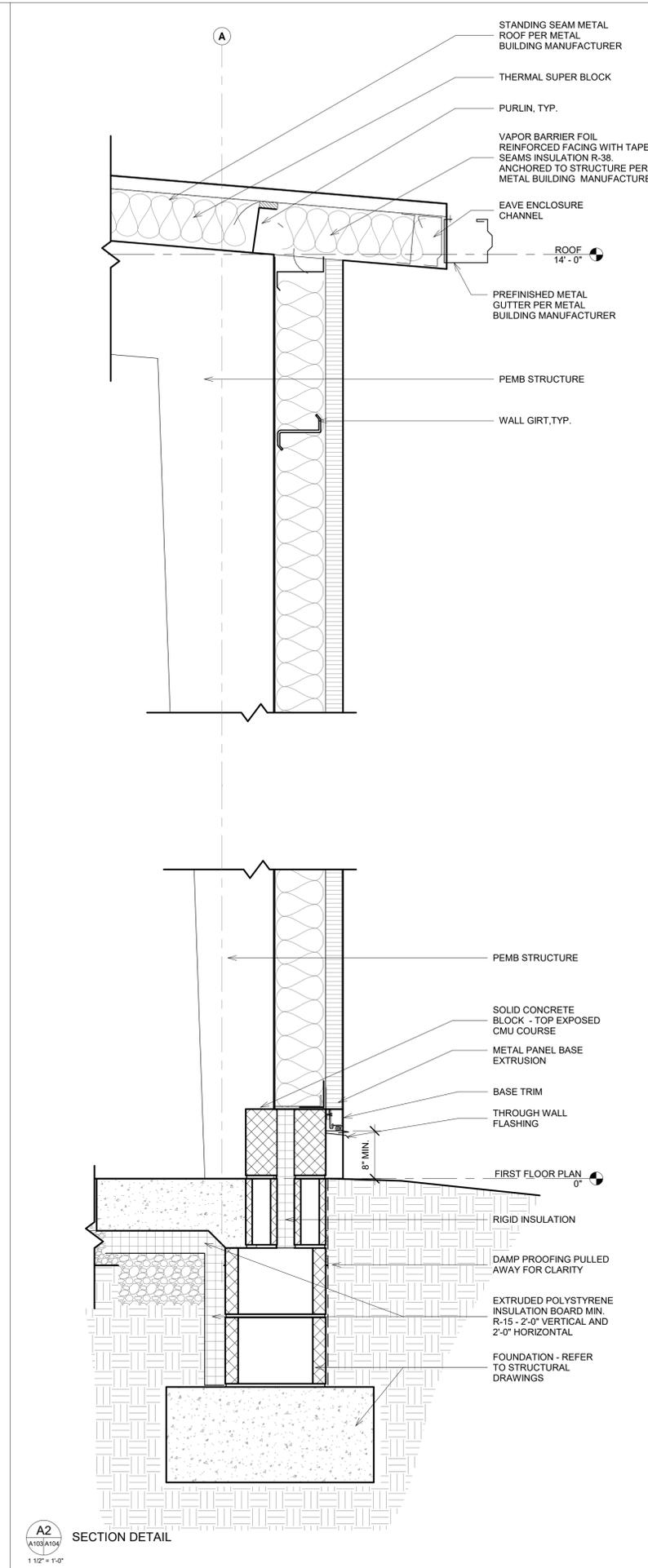
**A103**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

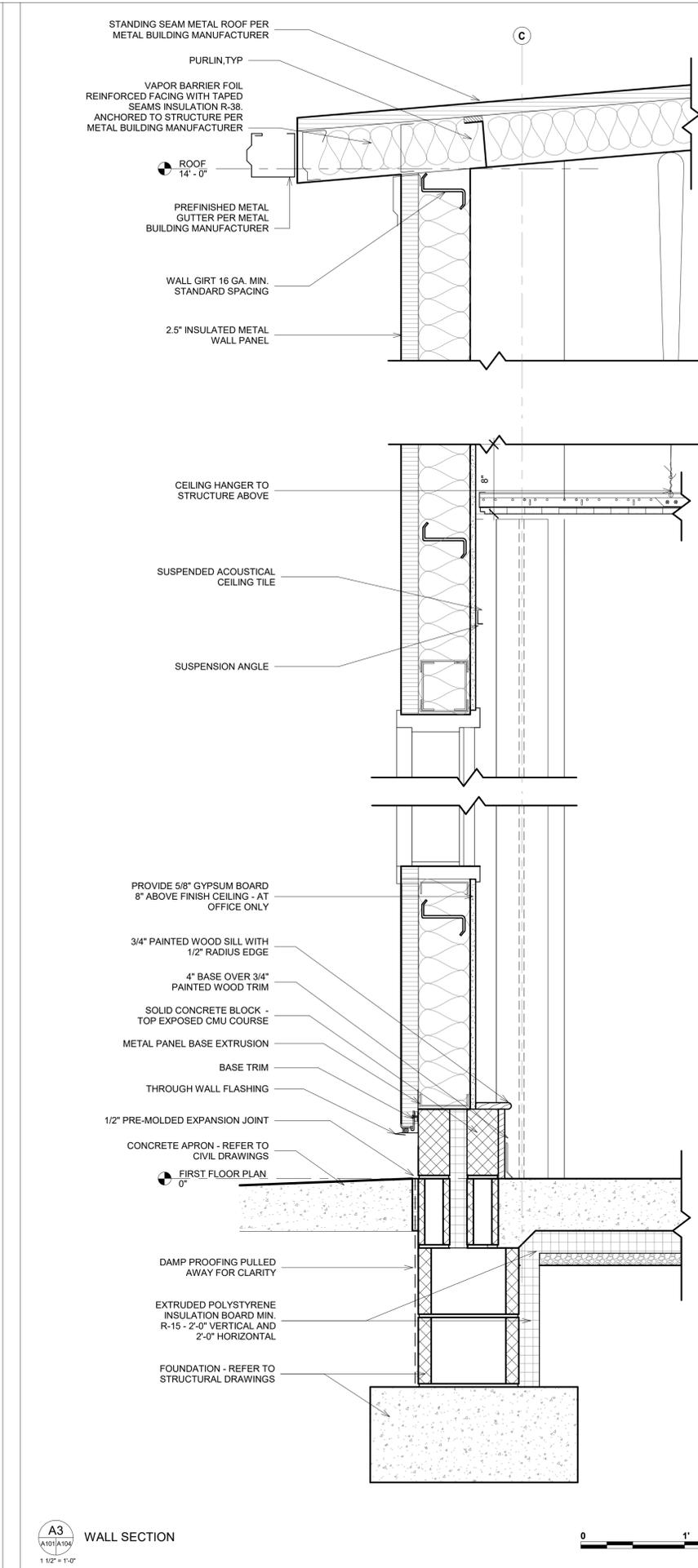




**A1**  
SECTION DETAIL  
1 1/2" = 1'-0"



**A2**  
SECTION DETAIL  
1 1/2" = 1'-0"



**A3**  
WALL SECTION  
1 1/2" = 1'-0"



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CALVERT COUNTY

75 CD  
28 FEBRUARY 2025

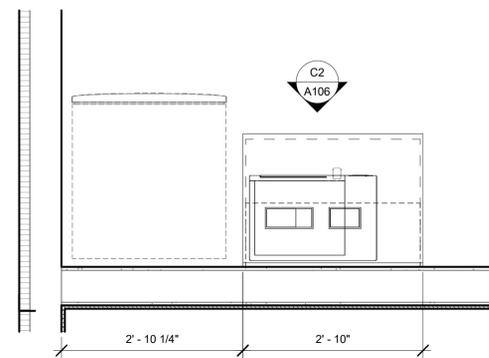
COLIMORE PROJECT NO: 24-024



MARK	DATE	DESCRIPTION

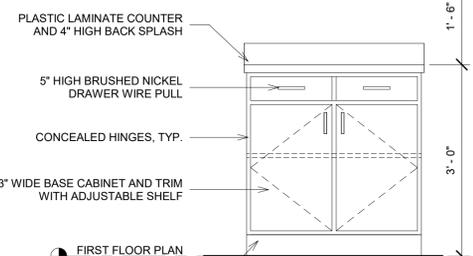
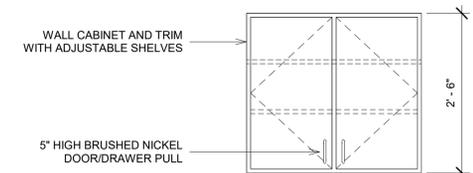
DRAWN BY: KJ  
CHECKED BY: SD  
MAINTENANCE BUILDING WALL SECTIONS

C



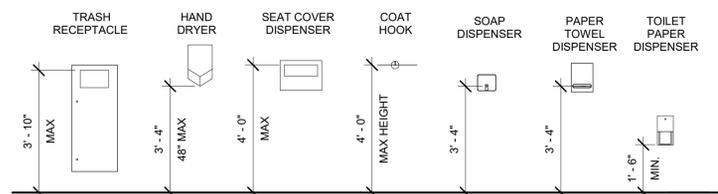
**C1**  
A106/A105  
3/4" = 1'-0"

**ENLARGED CABINET PLAN**

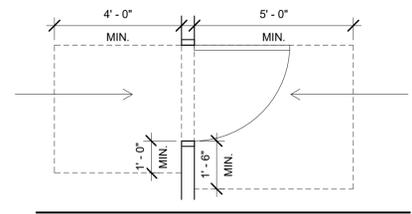


**C2**  
A106/A105  
3/4" = 1'-0"

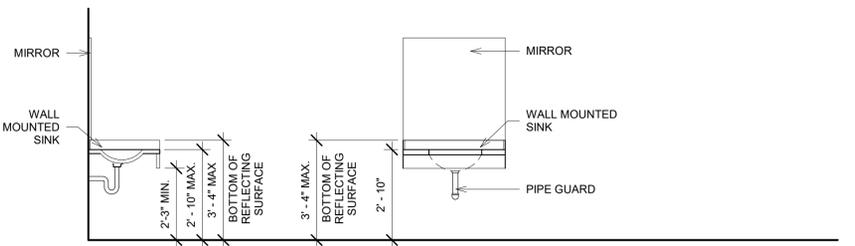
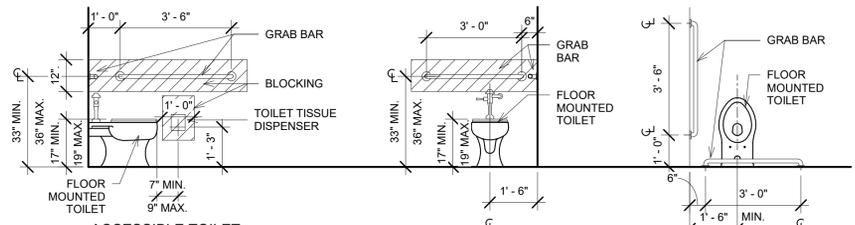
**ELEVATION**



**ACCESSIBLE ACCESSORIES**

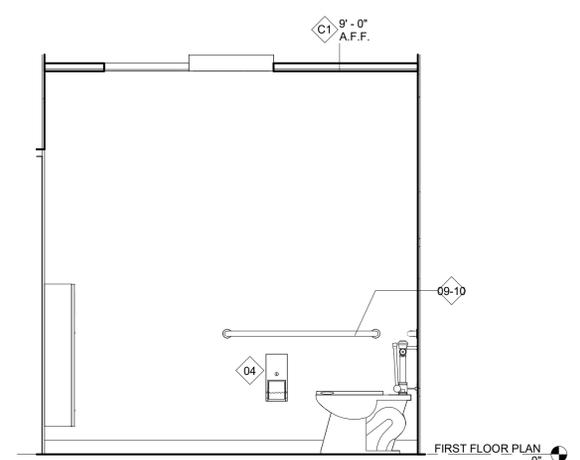


**DOOR ACCESS - ADA**



**TYPICAL ADA GUIDELINES**

B



**B1**  
A106/A105  
1/2" = 1'-0"

**BATHROOM ELEVATION**

**ACCESSORIES SCHEDULE**

ITEM	DESCRIPTION	QUANTITY	MANUFACTURER	MODEL NUMBER	COMMENTS
01	SOAP DISPENSER	2	Bobrick Washroom Equipment, Inc.	B-4112	
02	TILTED MIRROR	1	Bobrick Washroom Equipment, Inc.	B-293 1836	
04	TOILET PAPER DISPENSER	1	Bobrick Washroom Equipment, Inc.	B-4288	
05	SURFACE MOUNTED WASTE RECEPTACLE	1	Bobrick Washroom Equipment, Inc.	B-35649	
06	HAND DRYER	1	Dyson	Dyson Airblade V AB12 White	
09-10	09 = 36" GRAB BAR; 10 = 42" GRAB BAR	1	Bobrick Washroom Equipment, Inc.	B-5806	
11	PAPER TOWEL DISPENSER	1	Bobrick Washroom Equipment, Inc.	B-262	

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PROJECT NAME:  
**WARD RECREATION MAINTENANCE FACILITY**  
CALVERT COUNTY

75 CD  
28 FEBRUARY 2025

ATI PROJECT NO: 24-024



MARK      DATE      DESCRIPTION

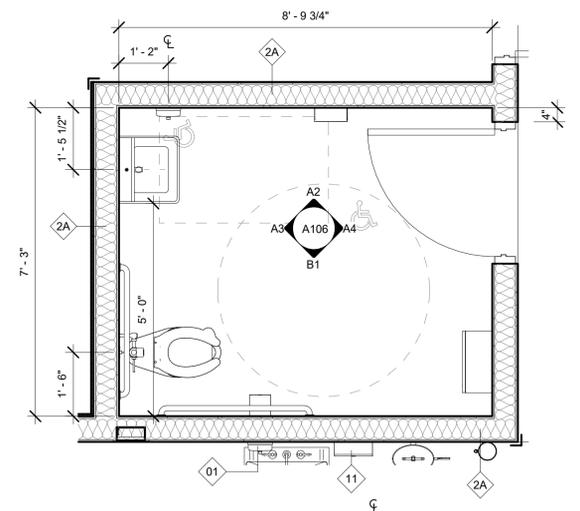

DRAWN BY: KJ  
CHECKED BY: SD

MAINTENANCE BUILDING  
BATHROOM PLAN, ELEVATIONS  
AND ACCESSORIES

**A106**

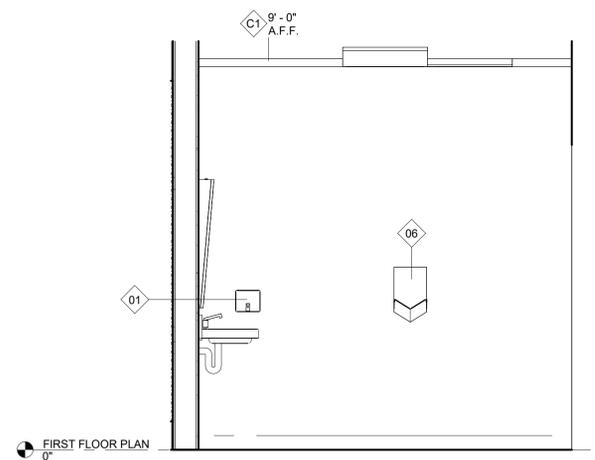
SHEET \_\_\_\_\_ OF \_\_\_\_\_

A



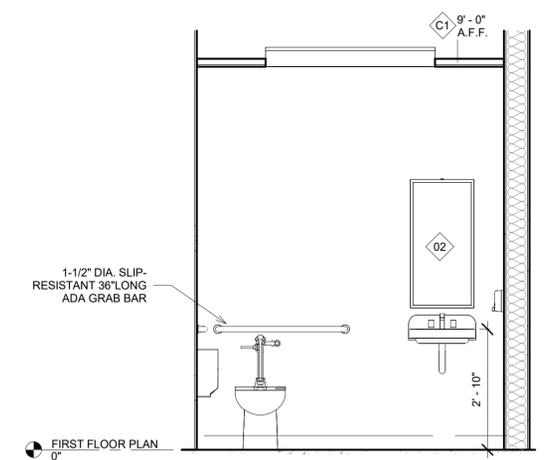
**A1**  
A106/A105  
1/2" = 1'-0"

**ENLARGED TOILET PLAN**



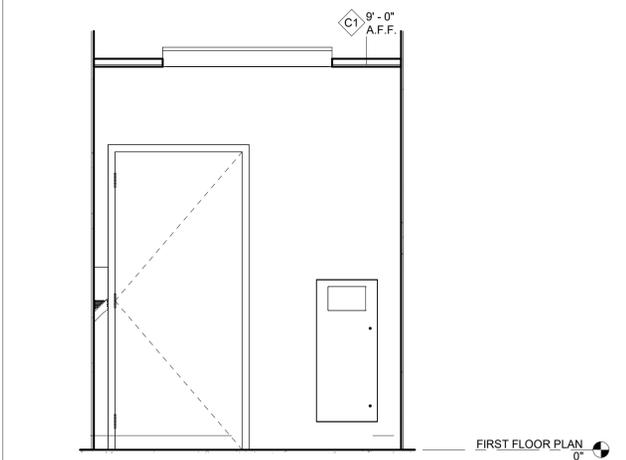
**A2**  
A106/A105  
1/2" = 1'-0"

**BATHROOM ELEVATION**



**A3**  
A106/A105  
1/2" = 1'-0"

**BATHROOM ELEVATION**



**A4**  
A106/A105  
1/2" = 1'-0"

**BATHROOM ELEVATION**



NO.	DOOR TYPE	DOOR				FRAME		HEAD	JAMB	FIRE RATING	GLAZING	HARDWARE	COMMENTS
		WIDTH	HEIGHT	THICKNESS	MATERIAL	DOOR FINISH	TYPE						
D01	D1	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D02	D1	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D03	D1	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D04	D2	10'-0"	12'-0"	2"	STL	PCF		STL	PCF				FRAME WITH OVERHEAD DOOR
D05	D2	10'-0"	12'-0"	2"	STL	PCF		STL	PCF				FRAME WITH OVERHEAD DOOR
D06	D2	12'-0"	12'-0"	2"	STL	PCF		STL	PCF				FRAME WITH OVERHEAD DOOR
D07	D2	12'-0"	12'-0"	2"	STL	PCF		STL	PCF				FRAME WITH OVERHEAD DOOR
D08	D4	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D09	D4	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D10	D4	4'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				
D11	D4	3'-0"	7'-0"	1 3/4"	HM	PTD	F1	HM	PTD				DOOR SHALL BE INSULATED

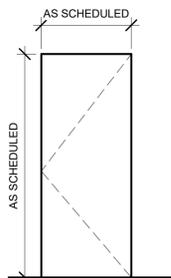
**DOOR SCHEDULE NOTES:**

- ALL NEW EXTERIOR DOORS MUST HAVE THRESHOLD AND WEATHERSTRIPPING.
- ALL NEW DOORS SHALL MEET SAFETY GLAZING REQUIREMENTS.
- ALL EGRESS DOOR HARDWARE SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

**ABBREVIATIONS:**

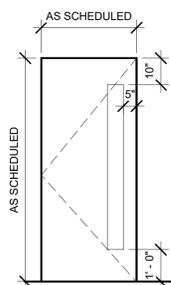
- HM 16 GA GALVANIZED HOLLOW METAL, PRIME AND PAINT  
 PCF POWDER COATED FINISH  
 PTD PAINT

**DOOR TYPES**

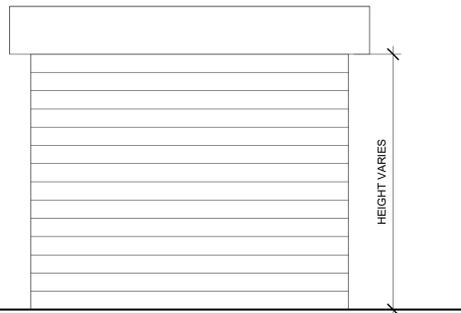


**D4**  
METAL DOOR

**INTERIOR DOORS**



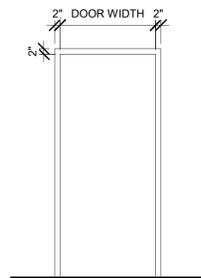
**D1**  
INSULATED METAL DOOR



**D2**  
INSULATED OVERHEAD METAL DOOR

**EXTERIOR DOORS**

**DOOR FRAME TYPE**



**F1**  
HOLLOW METAL FRAME

**EXTERIOR DOORS**

**HARDWARE SET 1:**

1	Continuous Hinge	CFM83HD1	PE
1	Storeroom Lockset	8004 LNMU	US26D SA
1	Latch Protector	321	US32D RO
1	Closer	351 PD10	EN SA
1	Kick Plate	K150 10"x2" LDW 4BE CSK	US32D RO
1	Overhead Stop	59XS x 90 deg	US26D SA
1	Threshold	1715 S x DOW x MS & ES25	PE
1	Gasketing (set)	316 AS x DOW x DOH	PE
1	Door Bottom Seal	345 AV x DOW	PE
1	Drip Strip	346 C x DOW + 4"	PE

**BATHROOM**

**HARDWARE SET 2:**

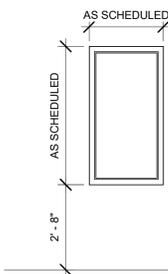
1	Continuous Hinge	CFM83HD1	PE
1	Privacy Set & Indicator	49 8265 LNMU	US26D SA
1	Closer	351 PD10	EN SA
1	Kick Plate	K150 10"x2" LDW 4BE CSK	US32D RO
1	Overhead Stop	59XS x 90 deg	US26D SA
1	Threshold	1715 S x DOW x MS & ES25	PE
1	Gasketing (set)	316 AS x DOW x DOH	PE
1	Door Bottom Seal	345 AV x DOW	PE
1	Drip Strip	346 C x DOW + 4"	PE

**WINDOW SCHEDULE**

MARK	WIDTH	HEIGHT	COMMENTS
W1	2'-0"	4'-0"	

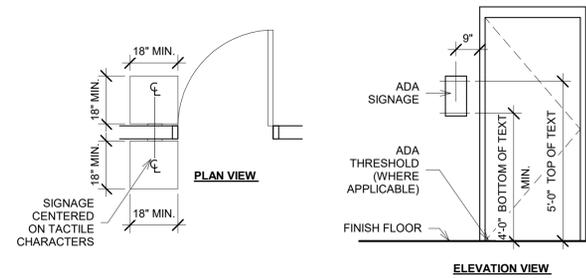
**WINDOW SCHEDULE NOTES:**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND FABRICATION OF WINDOWS. DIMENSIONS ON DRAWINGS DO NOT SUBSTITUTE FOR VERIFICATION DONE BY CONTRACTOR IN THE FIELD.
- PROVIDE 1/2" CAULKING ALONG THE PERIMETER OF WINDOWS.
- DIMENSIONS NOTED ARE JAMB TO JAMB OPENING.

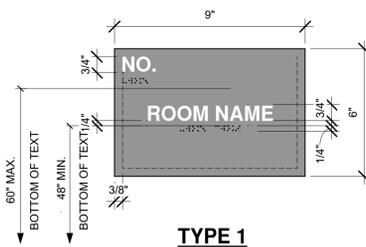


**W1**  
HOLLOW METAL FRAME

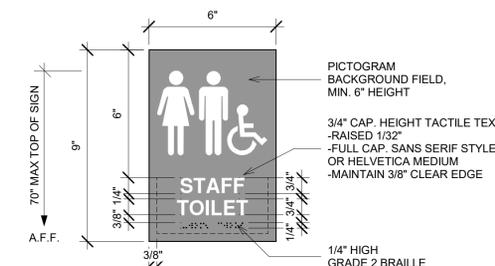
**WINDOW TYPES**



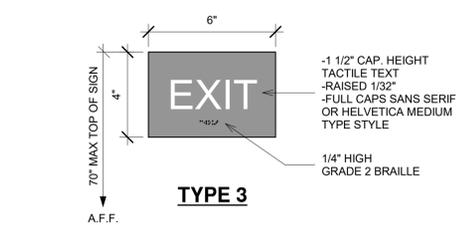
**C3**  
A107  
DOOR SIGNAGE LOCATION  
3/8" x 1'-0"



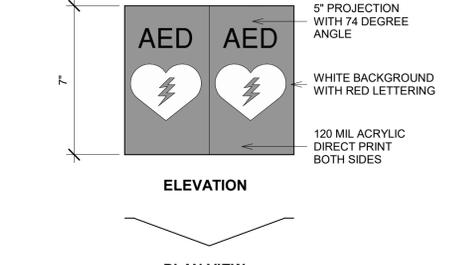
**TYPE 1**



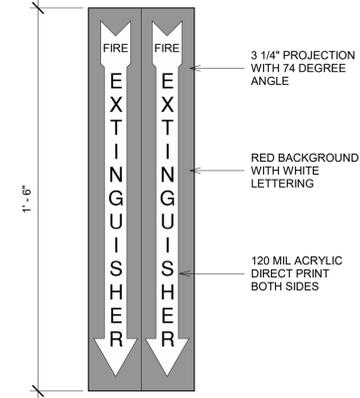
**TYPE 2**



**TYPE 3**



**TYPE 4**



**TYPE 5**



**TYPE 6**



**TYPE 7**

**A3**  
A107  
ROOM SIGNAGE  
NOT TO SCALE

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CALVERT COUNTY

75 CD  
28 FEBRUARY 2025

COLIMORE PROJECT NO: 24-024



MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION

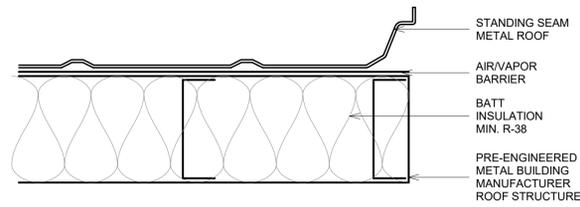
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CHECKED BY: HHB

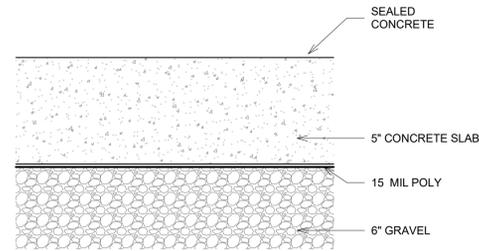
MAINTENANCE BUILDING DOOR AND WINDOW SCHEDULES

**A107**

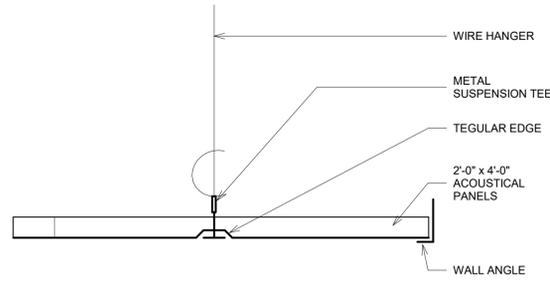
SHEET \_\_\_\_\_ OF \_\_\_\_\_



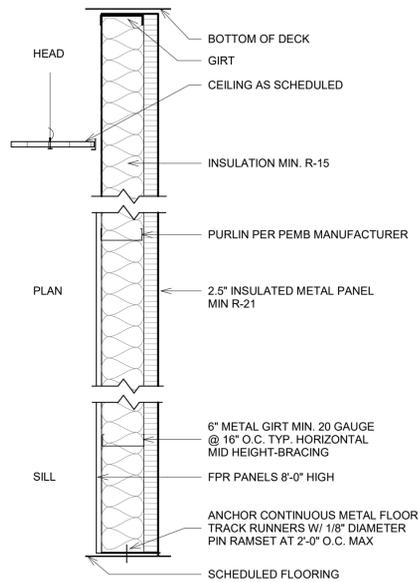
**C1**  
A108  
ROOF TYPE R1 - STANDING SEAM METAL ROOF  
NOT TO SCALE



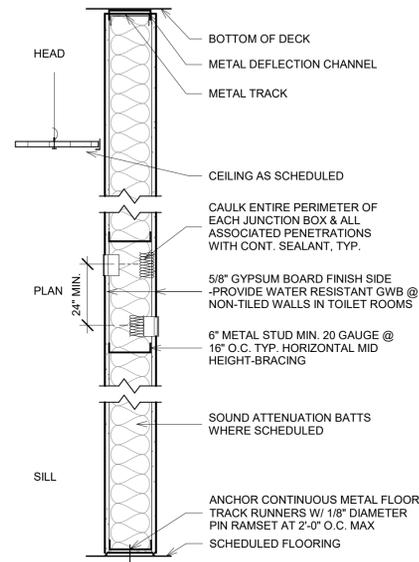
**B1**  
A108  
FLOOR TYPE F1  
NOT TO SCALE



**B2**  
A108  
CEILING TYPE C1  
NOT TO SCALE

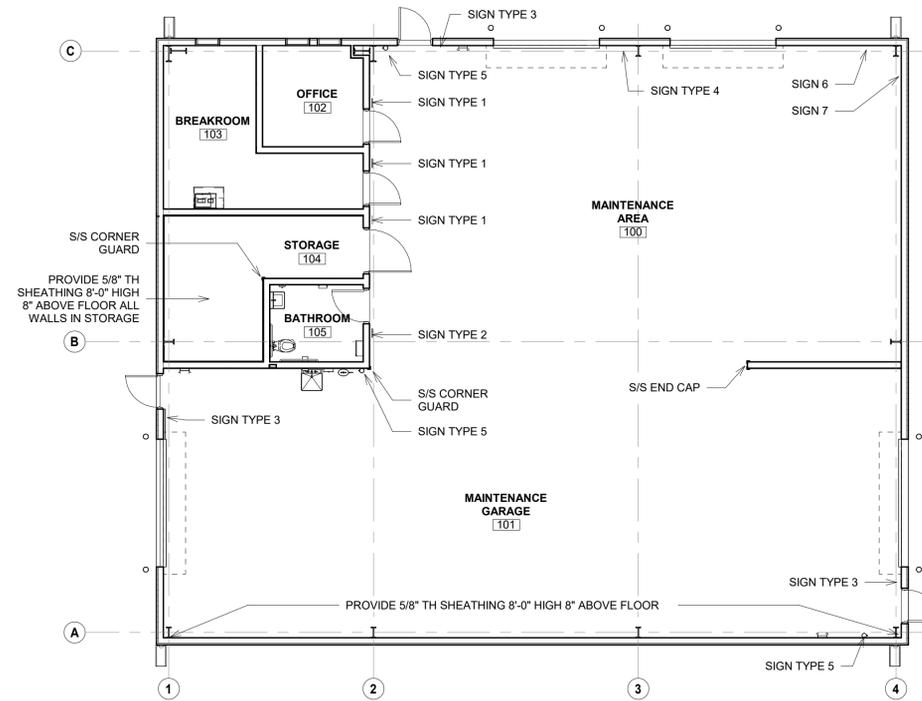


WALL TYPE 1A - METAL PANEL



WALL TYPE 2A - METAL STUD W/ GWB

WALL TYPE 2B - METAL STUD W/ GWB  
PROVIDE 12" HIGH WALL BLOCKING 2'-0", 4'-0" and 8'-0" AFF WITHIN WALLS.



**B3**  
A108/A109  
FINISH FLOOR PLAN  
1/8" = 1'-0"

**ROOM FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	WALL FINISH	NORTH	SOUTH	EAST	WEST	COMMENTS
100	MAINTENANCE AREA	SC-1	RB-1	C-2	P-1					MAINTENANCE AREA WALLS SHALL RECEIVE 8'-0" HIGH FPR PANELS
101	MAINTENANCE GARAGE	SC-1	RB-1	C-2	P-1					MAINTENANCE GARAGE WALLS SHALL RECEIVE 8'-0" HIGH FPR PANELS
102	OFFICE	SC-1	RB-1	C-1	P-1					
103	BREAKROOM	SC-1	RB-1	C-1	P-1					
104	STORAGE	SC-1	RB-1	C-2	P-1					ALL STORAGE WALL SHALL RECEIVE 8'-0" HIGH 5/8" SHEATHING 8" OFF FINISH FLOOR
105	BATHROOM	SC-1	RB-1	C-1	P-1					

**FINISH KEY**

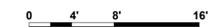
CEILING -	C-1 ACOUSTICAL CEILING TILE	BASE -	RB-1 RUBBER BASE
WALLS -	C-2 OPEN TO STRUCTURE	SEALED CONCRETE-	SC-1 SEALED CONCRETE
	P-1 WALL PAINT		

**WALL SCHEDULE**

TYPE MARK	WIDTH	SIZE	INSULATION	COMMENTS
	<varies>	<varies>	<varies>	
1A	8"		Yes	
2A	7 1/4"	6"	Yes	
2B	7 1/4"	6"	Yes	
3A	3 1/8"	7/8"	No	

**GENERAL PARTITION NOTES**

- REFER TO FINISH SCHEDULE FOR FINISHES TO BE APPLIED TO THESE PARTITION TYPES.
- FURRING CHANNELS AND STUDS SHALL BE 16" O.C. MAXIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE GAGE OF ALL METAL STUDS SHALL BE SIZED SO THAT THE DEFLECTION OF THE WALL SHALL NOT EXCEED 1/240 PER ASTM C645 UNLESS A HEAVIER GAGE IS INDICATED ON THE WALL TYPE OR DETAILS.
- IN ALL WALLS WITH SOUND ATTENUATION BLANKETS OR AN STC RATING LISTED; OUTLETS, SWITCHES, ETC., SHALL NOT BE LOCATED BACK TO BACK. OUTLETS SHALL BE OFFSET AND SEALED. PERIMETERS OF WALLS (AT ADJACENT WALLS, COLUMNS, CEILINGS, ETC.) SHOULD BE SEALED. ADDITIONALLY, WALL PENETRATIONS SHALL BE SEALED WITH APPROPRIATE TYPE OF ACOUSTIC SEALANT.
- PROVIDE SPACE FOR DEFLECTION OF BEAMS, JOISTS, AND STEEL DECK @ TOP OF ALL WALLS THAT RUN TO THE DECK.
- PROVIDE MINIMUM 12" HIGH x 18 GA. x LENGTH REQUIRED STEEL PLATE BLOCKING OR 2X FRT WOOD BLOCKING IN ALL STUD WALLS WHERE REQUIRED TO ATTACH CASEWORK, GRAB BARS, SHELVING, ELECTRICAL DEVICES, AND ANY OTHER ITEM WHICH REQUIRE SECURE ATTACHMENT TO THE WALL.



MARK	DATE	DESCRIPTION

DRAWN BY: Author

CHECKED BY: Checker

MAINTENANCE BUILDING WALL,  
FLOOR, CEILING AND ROOF  
TYPES

**A108**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

**CONTRACTORS RESPONSIBILITIES:**

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTING. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING, OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT AND SHALL REMAIN THE CONTRACTOR'S PROPERTY.
2. CONTRACTOR SHALL VERIFY CONDITION IN THE FIELD AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY CONDITIONS NOT AS ASSUMED. HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR THE SAME.
3. THE CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
4. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.
5. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOBSITE SAFETY DURING CONSTRUCTION.
6. PROCESSING AND/OR APPROVED SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OF SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
7. THE ENGINEER IS NOT ENGAGED IN AND DOES NOT SUPERVISE CONSTRUCTION.

**CONTROLLED FILL AND BACKFILL:**

1. SAMPLES OF ALL MATERIALS THAT THE CONTRACTOR PROPOSES TO USE FOR THE COMPACTED FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
2. COMPACTED FILL SHALL CONSIST OF LOCAL MATERIAL FREE OF DELETERIOUS MATTER AND CLASSIFIED SP, SW, SM, SC, GP, GW, GM, OR GC PER ASTM D 2487.
3. THE CONTROL OF THE MOISTURE FOR PLACING THE FILL WILL BE BASED ON THE RESULTS OF COMPACTION TESTS PER **ASTM D-1557**.
4. THE COMPACTED FILL SHALL HAVE A DENSITY OF AT LEAST **95% OF THE MODIFIED** PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY **ASTM D-1557**.
5. PRIOR TO THE PLACEMENT OF ANY FILLS, THE SITE SHALL BE STRIPPED OF ALL TOPSOIL, VEGETATION, ROCKS, AND ORGANIC MATERIALS AND THE EXPOSED SUBGRADE SHALL BE COMPACTED IN PLACE TO A CONFIRMED DENSITY OF **95% OF THE MODIFIED** PROCTOR MAXIMUM DRY DENSITY.
6. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND SHALL BE MIXED, SPREAD AND PLACED IN SUCH A WAY AS TO PRODUCE A UNIFORM THICKNESS OF MATERIAL AFTER PLACING.
7. EACH LAYER OF FILL SHALL BE COMPACTED WITH A MINIMUM OF 6 COMPLETE PASSES ON ALL PORTIONS OF THE SURFACE OF EACH LIFT OF FILL BY RUBBER TIRE ROLLERS, SHEEPS FOOT ROLLERS OR OTHER MECHANICAL EQUIPMENT APPROVED BY THE GEOTECHNICAL ENGINEER.
8. COMPACTED FILL PLACED IN 4 FEET OF STRUCTURES AND PIPES SHOULD BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4" INCHES THICKNESS AND COMPACTED WITH HAND TAMPERS OR LIGHT COMPACTION EQUIPMENT TO THE SAME STANDARD.
9. HEAVY COMPACTION EQUIPMENT SHOULD NOT BE ALLOWED WITHIN 4 FEET OF STRUCTURES UNLESS A MINIMUM 2 FEET DEPTH OF FILL COVERS THE STRUCTURES.
10. WHENEVER IN PLACE DENSITIES ARE FOUND BELOW ACCEPTABLE LIMITS, ADDITIONAL ROLLING TO PRODUCE THE SPECIFIED DENSITIES SHALL BE REQUIRED.
11. THE CONTRACTOR SHALL TAKE ALL MEASURES REQUIRED TO PROVIDE FOR FREE DRAINAGE OF THE SITE AND TO PREVENT PONDING OF WATER. SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES.
12. PLACING OF FILL CONTAINING ORGANIC MATTER; PLACING OF FILL WITH MOISTURE CONTENT TOO HIGH OR TOO LOW FOR PROPER COMPACTION; PLACING OF FILL WHEN FREE WATER IS STANDING ON THE EXISTING FILL SURFACE; PLACING OF FILL IN A FROZEN CONDITION OR ON TOP OF FROZEN MATTER WILL NOT BE PERMITTED.
13. THE SOILS ENGINEER SHALL SUPERVISE THE PLACING OF THE COMPACTED FILL AND ALL THE MATERIAL AND EQUIPMENT USED FOR THIS PURPOSE AND SHALL MAKE SUCH SOILS TESTS AS MAY BE REQUIRED FOR THE COMPLETION OF THE WORK PERFORMING AT LEAST 6 IN PLACE DENSITY TESTS DURING EACH EIGHT HOUR SHIFT.

**FOUNDATIONS-SPREAD FOOTINGS:**

1. BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 2'-0" BELOW ORIGINAL GRADE OR PLACED IN APPROVED COMPACTED FILL.
2. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF **2'-6"** BELOW FINISHED GRADE.
3. A SOIL BEARING CAPACITY OF **2000 PSF** WAS USED IN THE FOUNDATION DESIGN, AND MUST BE FIELD VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER. IF SOIL OF THIS BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS, FOOTINGS SHALL BE LOWERED, INCREASED IN SIZE, OR SOIL IMPROVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY MORABITO CONSULTANTS.
4. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
5. ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
6. ELEVATIONS SHOWN ON PLAN ARE TO THE BOTTOM OF THE FOOTINGS.

**CONCRETE:**

1. ALL CONCRETE WORK SHALL CONFORM TO ALL THE PROVISIONS OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
2. CONCRETE PROPERTIES FOR EACH STRUCTURAL ELEMENT IS DEFINED IN THE DESIGN DATA SECTION ON THIS SHEET.
3. CONCRETE SHALL CONFORM TO ALL THE PROVISIONS OF "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING" (ACI 305) AND "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING" (ACI 306).
4. ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "FORMWORK FOR CONCRETE" SPECIAL PUBLICATION NO. 4 AND ACIS "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI 347).
5. CONCRETE MIX DESIGN SHALL BE BASED ON LABORATORY TRIAL BATCH METHOD DESCRIBED IN ACI-318. CONCRETE SHALL ALSO CONFORM TO THE FOLLOWING REQUIREMENTS.
6. ALL CONCRETE EXPOSED TO THE WEATHER SHALL HAVE AN AIR ENTRAINMENT OF 6% +/- 1%.
7. THE MAXIMUM WATER CEMENT RATIO W/C SHALL NOT EXCEED 0.56 FOR ALL CONCRETE EXCEPT CONCRETE EXPOSED TO WEATHER WHICH SHALL NOT EXCEED 0.45.
8. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED.
9. THE MAXIMUM SLUMP OF ALL CONCRETE SHALL BE 4".
10. ALL CONCRETE SHALL BE CURED WITH LIQUID SEALING COMPOUND CONFORMING TO ASTM C-309, TYPE I AND FEDERAL SPECIFICATION TT-C-00800 OR OTHER APPROVED METHOD WHICH IS COMPATIBLE WITH FLOORING ADHESIVES AND OTHER SURFACE TREATMENTS.
11. ALL CONCRETE LEFT EXPOSED AT THE COMPLETION OF THE PROJECT SHALL BE TREATED WITH A CLEAR, PENETRATING ACRYLIC BASE POLYMER CAPABLE OF PREVENTING INFILTRATION OF WATER BORNE CHLORIDES SUCH AS "US CURE & SEAL" BY US CONCRETE PRODUCTS OR APPROVED EQUAL.
12. CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS AS REQUIRED FOR COMPLETION OF WORK.
13. ONE SET OF COMPRESSIVE TEST CYLINDERS FOR EACH 100 CUBIC YARDS POURED, BUT NOT LESS THAN ONE SET FOR EACH DAY'S POUR AND EACH CLASS OF CONCRETE, ALONG WITH SLUMP TESTS, SHALL BE PERFORMED BY A TESTING LABORATORY APPROVED BY THE STRUCTURAL ENGINEER.
14. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE AND HAVE BEEN APPROVED BY THE ENGINEER.

**CONCRETE SLAB ON GRADE CONSTRUCTION:**

1. THE CONCRETE SLABS ON GRADE FOR THIS PROJECT HAVE BEEN DESIGNED UTILIZING A MODULUS OF SUBGRADE REACTION "K" EQUAL TO **100 PCF**.
2. THE CONCRETE SLABS ON GRADE THROUGHOUT THIS PROJECT ARE NOT DESIGNED TO SUPPORT THE CRANES USED DURING THE ERECTION OF THE STRUCTURAL STEEL OR CONCRETE TILT-UP WALL BEARING PANELS. IF THE CONTRACTOR ELECTS TO PLACE THE CRANE ON THE CONCRETE SLAB ON GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL NECESSARY PRECAUTIONS, INCLUDING THE TEMPORARY INSTALLATION OF WOOD CRIBBING OR TIE BEAMS TO PREVENT CRACKS FROM FORMING IN THE SLABS ON GRADE. ALL CRACKS WHICH FORM IN THE CONCRETE SLABS ON GRADE DUE TO THE CRANE BEING PLACED ON THE SLAB WILL BE REPLACED OR REPAIRED TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND OWNER AT THE CONTRACTOR'S EXPENSE.

**REINFORCING STEEL:**

1. REINFORCING STEEL SHALL BE DEFORMED BARS IN ACCORDANCE WITH ASTM A 615, GRADE 60.
2. BENDS AND HOOKS ARE TO BE FABRICATED IN ACCORDANCE WITH ACI SP-66 ACI DETAILING MANUAL AND AS PER DETAILS.
3. PLACE MAIN REINFORCING STEEL SO AS TO PROVIDE 3" MINIMUM COVER FOR FOUNDATIONS POURED ON EARTH, 2" MINIMUM COVER FOR BEAMS AND COLUMNS, 3/4" MINIMUM COVER FOR SLABS AND 1 1/2" FOR ALL REBAR IN EXPOSED CONCRETE (EXCEPT AS OTHERWISE IN DETALS).
4. LAP DEFORMED BARS IN ACCORDANCE WITH LAP SPLICE SCHEDULE ON THESE DRAWINGS, UNO.
5. HOOKS SHALL BE STANDARD HOOKS, UNO.
6. PROVIDE ACCESSORIES AND BAR SUPPORTS IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 1064, UNO.
8. WWF REINFORCING SHALL BE PLACED AT MID DEPTH OF SLABS ON GRADE AND DRAPED OVER SUPPORTS IN CONCRETE ON METAL DECK SLABS.
9. END LAPS OF ALL WWF REINFORCING SHALL BE LAPPED (1) SQUARE

**GENERAL NOTES**

**MASONRY:**

1. REINFORCED MASONRY CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530, AND SPECIFICATIONS FOR MASONRY STRUCTURE, ACI 530.
2. MASONRY SHALL BE IN ACCORDANCE WITH ASTM C 90.
3. MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI BASED ON THE NET CROSS SECTIONAL AREA OF THE INDIVIDUAL BLOCK UNITS. PROVIDE HIGHER UNIT STRENGTHS WHERE REQUIRED BY DRAWINGS.
4. ALL MORTAR SHALL BE TYPE "S" "MORTAR CEMENT" OR "PORTLAND CEMENTALIME" CONFORMING TO ASTM C 270.
5. MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
6. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
7. REINFORCED VOIDS IN MASONRY SHALL BE FILLED SOLID WITH GROUT.
8. PROVIDE A MINIMUM OF 3 COURSES OF SOLID BRICK OR ONE COURSE OF 100% SOLID BLOCK UNDER WALL BEARING ENDS OF ALL JOISTS AND SLABS, THE FULL WIDTH OF THE WALL, UNLESS NOTED.
9. IN BEARING WALLS, PROVIDE SOLID BRICK OR 100% BLOCK EXTENDING 8" BEYOND WALL OPENINGS THE FULL WALL THICKNESS DOWN TO THE FLOOR, UNLESS NOTED.
10. ALL PORTIONS OF MASONRY WALLS HAVING A HORIZONTAL CROSS SECTION OF 4 SQ. FT. OR LESS SHALL BE OF SOLID MASONRY DOWN TO FOOTINGS.
11. PROVIDE 9 GAUGE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" o/c IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
12. ALL MASONRY WALLS SHALL HAVE CONTROL JOINTS AT **40'-0"** o/c MAXIMUM. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
13. ALL MORTAR JOINTS IN MASONRY WALLS (HORIZONTAL AND VERTICAL) SHALL BE FILLED 100% WITH MORTAR.
14. CONTRACTOR TO PROVIDE ENGINEERING DESIGN FOR TEMPORARY WALL BRACING. SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR ALL COMPONENTS OF THE TEMPORARY BRACING SYSTEM. BRACING SHALL FOLLOW OSHA, NCMCA TEX 03-04C AS WELL AS "COUNCIL FOR MASONRY WALL BRACING" S STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" AND ASCE 37 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION"

**PRE-ENGINEERED METAL BUILDING DESIGN AND CONSTRUCTION CRITERIA:**

1. A REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THE DESIGN, FABRICATION, AND ERECTION OF THE PRE-ENGINEERED METAL BUILDING. CERTIFICATION SHALL BE BY THE SEAL AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER ON THE MANUFACTURED DRAWINGS AND ON THE FINAL SHOP AND FIELD INSPECTION REPORTS.
2. THE TOTAL RESPONSIBILITY, INCLUDING PROFESSIONAL LIABILITY, FOR THE DESIGN AND CONSTRUCTION OF THE PRE-ENGINEERED METAL BUILDING SHALL BE BORNE BY THE CONTRACTOR, THE PRE-ENGINEERED METAL BUILDING MANUFACTURER, AND THEIR REGISTERED PROFESSIONAL ENGINEER, MORABITO CONSULTANTS, INC., WILL NOT BE RESPONSIBLE UNDER ANY CONDITION(S) FOR THE STRUCTURAL DESIGN, FABRICATION AND ERECTION OF THE PRE-ENGINEERED BUILDING AND ITS COMPONENTS.
3. THE DESIGN OF THE PRE-ENGINEERED METAL BUILDING SHALL BE IN ACCORDANCE WITH THE PROJECT DOCUMENTS, ALL REFERENCED CODES, AND THE CONTAINED MINIMUM DESIGN CRITERIA CONTAINED THEREIN.
4. MINIMUM DESIGN CRITERIA:
  - A. MINIMUM ROOF LIVE LOAD (SNOW) SHALL BE **30 POUNDS** PER SQUARE FOOT.
  - B. MINIMUM FLOOR LIVE LOAD SHALL BE **100 POUNDS** PER SQUARE FOOT.
  - C. MINIMUM WIND AND EARTHQUAKE LOADS SHALL BE IN ACCORDANCE WITH IBC BUILDING CODE, ASCE 7, AND AS MODIFIED BY THE PROJECT DOCUMENTS.
  - D. A MINIMUM DEAD LOAD FOR CEILINGS OF **5 POUNDS** PER SQUARE FOOT SHALL BE APPLIED TO ALL ROOFS AND FLOORS.
  - E. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN THE ROOF STRUCTURE TO SUPPORT ALL SPRINKLER LINES AND SHALL PROVIDE A PROFESSIONAL ENGINEER TO SIGN AND SEAL THE SPRINKLER CERTIFICATION AS MANDATED BY CALVERT COUNTY, MD.
  - F. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, THE PRE-ENGINEERED METAL BUILDING MANUFACTURER AND THEIR REGISTERED PROFESSIONAL ENGINEERS TO DETERMINE AND OBTAIN ALL OTHER PERTINENT DEAD LOADS AND OTHER DESIGN CRITERIA AS MAY BE REQUIRED FOR THE DESIGN OF A SAFE STRUCTURE.
  - G. MINIMUM WIND LOAD FOR THE BUILDING'S LATERAL FORCE RESISTANT SYSTEM AND COMPONENT AND CLADDING DESIGN SHALL BE **115 MPH** PER IBC AND ASCE 7.
  - H. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR ANY DIFFERENTIAL SETTLEMENT AS MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEERING REPORT.
1. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR A MAXIMUM DRIFT IN ALL DIRECTIONS OF THE HEIGHT IN INCHES OVER 160 (L/160).
5. THE FOUNDATIONS OF THE PRE-ENGINEERED METAL BUILDING HAVE BEEN DESIGNED FOR CERTAIN ESTIMATED BUILDING STRUCTURE REACTIONS. THE CONTRACTOR, THE PRE-ENGINEERED METAL BUILDING MANUFACTURER AND HIS REGISTERED PROFESSIONAL ENGINEER SHALL FURNISH MORABITO CONSULTANTS, INC., WITH THE REACTION AT EACH AND EVERY COLUMN FOUNDATION. THE FOUNDATIONS OF THIS BUILDING STRUCTURE SHALL NOT BE STARTED UNTIL THE FOUNDATION DESIGN HAS BEEN COORDINATED WITH THE ACTUAL PRE-ENGINEERED METAL BUILDING REACTIONS.
6. IF THE FOUNDATION REACTIONS SHOWN ON THESE DOCUMENTS ARE GREATER THAN THE ACTUAL FRAME REACTIONS PREPARED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER, THE CONTRACTOR SHALL HIRE MORABITO CONSULTANTS, INC. TO ANALYZE/REDESIGN THE CONCRETE SPREAD FOOTINGS FOR THIS PROJECT TO INSURE AN ADEQUATE FOUNDATION DESIGN. IF THIS REDESIGN REQUIRES ANY ADDITIONAL WORK SUCH AS CONCRETE REINFORCING, ETC., THE CONTRACTOR SHALL FURNISH THE SAME IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
7. AT EACH COLUMN, THE CONTRACTOR SHALL PROVIDE 1/4 INCH LEVELING PLATES WITH THE SAME SIZE AREA AS THE COLUMN BASE PLATES. THE LEVELING PLATES SHALL BE LOOSE AND HAVE THE SAME PUNCHING AS THE COLUMN BASE PLATES.
8. THE DIAMETER OF ANCHOR BOLTS SHALL BE DETERMINED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER AND THEIR REGISTERED PROFESSIONAL ENGINEER.
9. THE PRE-ENGINEERED METAL BUILDING MUST BE ADEQUATELY BRACED AGAINST LATERAL FORCES AND UPLIFT UNTIL THE SLAB-ON-GRADE IS POURED AND CURED. THE FOUNDATIONS WITHOUT THE SLAB-ON-GRADE HAVE NOT BEEN DESIGNED TO RESIST THE REQUIRED FORCES.
10. PLACEMENT AND DIMENSIONS OF METAL BUILDING COMPONENTS MUST BE FIELD COORDINATED WITH METAL BUILDING MANUFACTURER ERECTION DRAWINGS AND INSTRUCTIONS. METAL BUILDING ERECTION MUST NOT BEGIN WITHOUT EXAMINATION OF THESE DOCUMENTS. SPECIAL ATTENTION IS DIRECTED TO ANCHOR BOLT LAYOUT, FRAME LINE PIER HEIGHTS AND OVERPOUR OF SLAB.
11. THE PRE-ENGINEERED METAL BUILDING SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY MORABITO CONSULTANTS, INC. TO VERIFY THAT ALL BOLTS HAVE BEEN PROPERLY TORQUED AND THAT ALL STEEL IS PLUMB AND INSTALLED WITHIN ACCEPTABLE TOLERANCES AS REQUIRED BY AISC CODE.

**SUBMITTALS:**

1. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR AND REVIEWED BY THE ENGINEER.
2. ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER AND SHALL BE MARKED "APPROVED" OR "APPROVED AS NOTED".
3. CONTRACTOR SHALL CHECK SHOP DRAWINGS THOROUGHLY BEFORE SUBMITTING. VERIFY DIMENSIONS REQUIRING FIELD VERIFICATION BEFORE SUBMITTING AND MARK AS HAVING BEEN VERIFIED.
4. SUBMIT PRE ENGINEERED METAL BUILDING SHOP DRAWINGS.
5. SUBMIT CONCRETE MIX DESIGNS FOR EACH CLASS OR USE.
6. SUBMIT CONCRETE REINFORCING STEEL SHOP DRAWINGS.
7. SUBMIT MASONRY REINFORCING SHOP DRAWINGS.
8. ALL CONTRACTOR MODIFICATIONS (INCLUDING PRODUCTS SUBMISSION) MUST BE IDENTIFIED IN WRITING AS A PROPOSED "AS EQUAL" CHANGES AT TIME OF SUBMISSION.
9. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS OR FAILS TO FOLLOW THE ABOVE "AS EQUAL" PROCEDURE, THE FIRM MORABITO CONSULTANTS, INC. WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT.
10. SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER AS A CONVENIENCE TO THE CONTRACTOR AND ARE NOT A CONTRACT DOCUMENT.

**DELEGATED DESIGN ITEMS:**

1. CONTRACTOR SHALL RETAIN A QUALIFIED SPECIALTY ENGINEER LICENSED IN THE PROJECT JURISDICTION TO DESIGN AND DETAIL PERFORMANCE SPECIFIED COMPONENTS, INCLUDING BUT NOT LIMITED TO:
  - a. PRE-ENGINEERED METAL BUILDINGS
2. SHOP DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.
3. WHERE ANY CONTRACTOR ATTACHES TO THE BASE BUILDING, SUBMIT A COMPLETE DESCRIPTION OF ALL LOADS TRANSFERRED TO THE BASE BUILDING STRUCTURE. THIS INCLUDES MAGNITUDE OF THE LOADS AS WELL AS DESCRIPTIONS OF THE TYPE OF CONNECTION USED AT EACH POINT OF CONTACT.
4. ALL DELEGATED DESIGN SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO COMMENCING FABRICATION OR ERECTION/INSTALLATION, AND APPROVED COPIES OF ALL DELEGATED DESIGN SUBMITTALS SHALL BE AVAILABLE ON SITE FOR INSPECTOR REVIEW.

**INSPECTION:**

1. ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES AND SPECIFICATIONS FOR MASONRY STRUCTURE, ACI 530.
2. THE OWNER SHALL HIRE AN EXPERIENCED QUALIFIED INSPECTOR TO PERFORM ALL REQUIRED INSPECTION WORK.
3. INSPECTION SHALL CONSIST OF VISUAL OBSERVATIONS OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE DESIGN INTENT.
4. PERFORM VISUAL INSPECTION OF WELDS IN ACCORDANCE WITH AWS D1.1
  - a. VERIFY QUALIFICATIONS OF WELDERS.
  - b. VERIFY WELDING PROCEDURE QUALIFICATION AND EQUIPMENT.
  - c. VERIFY WELD MATERIALS AND STORAGE FACILITIES.
  - d. INSPECT JOINT FIT-UP PRIOR TO WELDING.
  - e. MEASURE 25 PERCENT OF FILLET WELDS.
5. PERFORM NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS IN ACCORDANCE WITH ASTM E164
6. PERFORM BOLT INSPECTIONS.
  - A. SLIP CRITICAL CONNECTIONS: INSPECT 10 PERCENT OF BOLTS, BUT NOT LESS THAN TWO BOLTS, SELECTED AT RANDOM IN EACH CONNECTION IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. INSPECT ALL BOLTS IN CONNECTION WHEN ONE OR MORE ARE REJECTED.
  - B. FULLY PRE TENSIONED CONNECTIONS: INSPECT 10 PERCENT OF BOLTS, BUT NOT LESS THAN TWO BOLTS, SELECTED AT RANDOM IN 25 PERCENT OF CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. INSPECT ALL BOLTS IN CONNECTION WHEN ONE OR MORE ARE REJECTED.
  - C. BOLTS INSTALLED BY TURN OF NUT TIGHTENING MAY BE INSPECTED WITH CALIBRATED WRENCH WHEN VISUAL INSPECTION WAS NOT PERFORMED DURING TIGHTENING.
  - D. SNUG TIGHT CONNECTIONS: INSPECT 100 PERCENT OF CONNECTIONS VERIFYING THAT PLIES OF CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT.
7. MAXIMUM CURE AND TEST CONCRETE TEST SPECIMENS IN ACCORDANCE WITH ASTM C31, FROM CONCRETE SAMPLED AT POINT OF DISCHARGE FOR COMPRESSIVE STRENGTH.
8. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS PART OF THIS PRESENT CONTRACT WITH THE ARCHITECT/OWNER. HOWEVER, IF DESIRED, MORABITO CONSULTANTS, INC. MAY BE HIRED UNDER A SEPARATE CONTRACT TO PERFORM THIS INSPECTION WORK.
9. UNDER THIS PRESENT CONTRACT, THE ENGINEER MAY PERFORM CONSTRUCTION ADMINISTRATION SERVICES OR VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. HOWEVER, SUCH SERVICES OR SITE VISITS SHALL NOT BE RELIED UPON BY OTHERS AS INSPECTION OR ACCEPTANCE OF THE WORK, NOR SHOULD IT BE CONSTRUED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT.
10. IT IS AGREED THAT IF THE OWNER DOES NOT ENGAGE MORABITO CONSULTANTS OR AN INDEPENDENT THIRD PARTY INSPECTION AGENCY, THEN THE OWNER WILL DEFEND, INDEMNIFY AND HOLD HARMLESS MORABITO CONSULTANTS, INC., FROM ANY CLAIM OR SUIT WHATSOEVER, INCLUDING BUT NOT LIMITED TO ALL PAYMENTS, EXPENSES OR COSTS INVOLVED, ARISING FROM OR ALLEGED TO HAVE ARISEN FROM THE CONTRACTOR'S PERFORMANCE OR THE FAILURE OF THE CONTRACTOR'S WORK TO CONFORM TO THE DESIGN INTENT AND THE CONTRACT DOCUMENTS.
11. MORABITO CONSULTANTS, INC., AGREES TO BE RESPONSIBLE FOR ITS OWN OR ITS EMPLOYEES' NEGLIGENCE ACTS, ERRORS OR OMISSIONS.

**OWNERSHIP OF DOCUMENTS:**

1. THE CONTRACTOR ACKNOWLEDGES THESE PLANS AND SPECIFICATIONS PREPARED BY MORABITO CONSULTANTS, INC. AS INSTRUMENTS OF SERVICE.
2. NEVERTHELESS, THE PLANS AND SPECIFICATIONS PREPARED UNDER THIS AGREEMENT SHALL REMAIN THE PROPERTY OF MORABITO CONSULTANTS, INC. UPON COMPLETION OF THE WORK.
3. THE CONTRACTOR AGREES TO HOLD HARMLESS AND INDEMNIFY MORABITO CONSULTANTS, INC., AGAINST ALL DAMAGES, CLAIMS, AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF MORABITO CONSULTANTS, INC.

**DESIGN DATA:**

**BUILDING CODE:** INTERNATIONAL BUILDING CODE - IBC 2018

**CONCRETE:** NORMAL WEIGHT CONCRETE HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) AS FOLLOWS. REFER TO FRAMING SCHEDULES FOR ADDITIONAL REQUIREMENTS:  
ALL CONCRETE, UNO 3000 PSI  
SLAB ON GRADE 3500 PSI (UNO)

**REINFORCING STEEL:** Fy = 60,000 PSI (DEFORMED BARS)

**UNIFORM LIVE LOADS:**

ROOF = 30 PSF + SNOW DRIFT  
FLOOR = 250 PSF

**ROOF SNOW LOAD:**

1. GROUND SNOW LOAD: Pg = 25 PSF
2. SNOW EXPOSURE FACTOR: Ce = 1.0
3. IMPORTANCE FACTOR: Is = 1.0
4. THERMAL FACTOR: Ct = 1.0
5. SLOPE FACTOR: Cs = 1.0
6. FLAT-ROOF SNOW LOAD: Pf = 17.5 PSF
7. DRIFT SURCHARGE: Pd = 34.56 PSF
8. WIDTH OF SNOW DRIFT: W = 8.01 FT

**WIND LOAD**

1. WIND SPEED: Vult = 114 MPH (Vasd = 88.3 MPH)
2. RISK CATEGORY II
3. EXPOSURE CATEGORY C
4. INTERNAL PRESSURE COEFFICIENT = ±0.18
5. DIRECTIONALITY: Kd = 0.85
6. WIND DRIFT/DEFLECTION RETURN INTERVAL = 10 YEARS
7. REFER TO DESIGN TABLES FOR COMPONENTS AND CLADDING WIND PRESSURES

**EARTHQUAKE LOAD**

1. RISK CATEGORY = II
2. IMPORTANCE FACTOR: Ie = 1.00
3. SITE CLASS D
4. MAPPED SPECTRAL RESPONSE ACCELERATION
  - a. Ss = 0.124
  - b. S1 = 0.042
5. SPECTRAL RESPONSE COEFFICIENTS
  - a. SDS = 0.132
  - b. SD1 = 0.067
6. SEISMIC DESIGN CATEGORY B

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PROJECT NAME:

**WARD RECREATION  
MAINTENANCE  
FACILITY**  
CALVERT COUNTY

28 APRIL 2025

COLIMORE PROJECT NO: 00000



MARK DATE DESCRIPTION

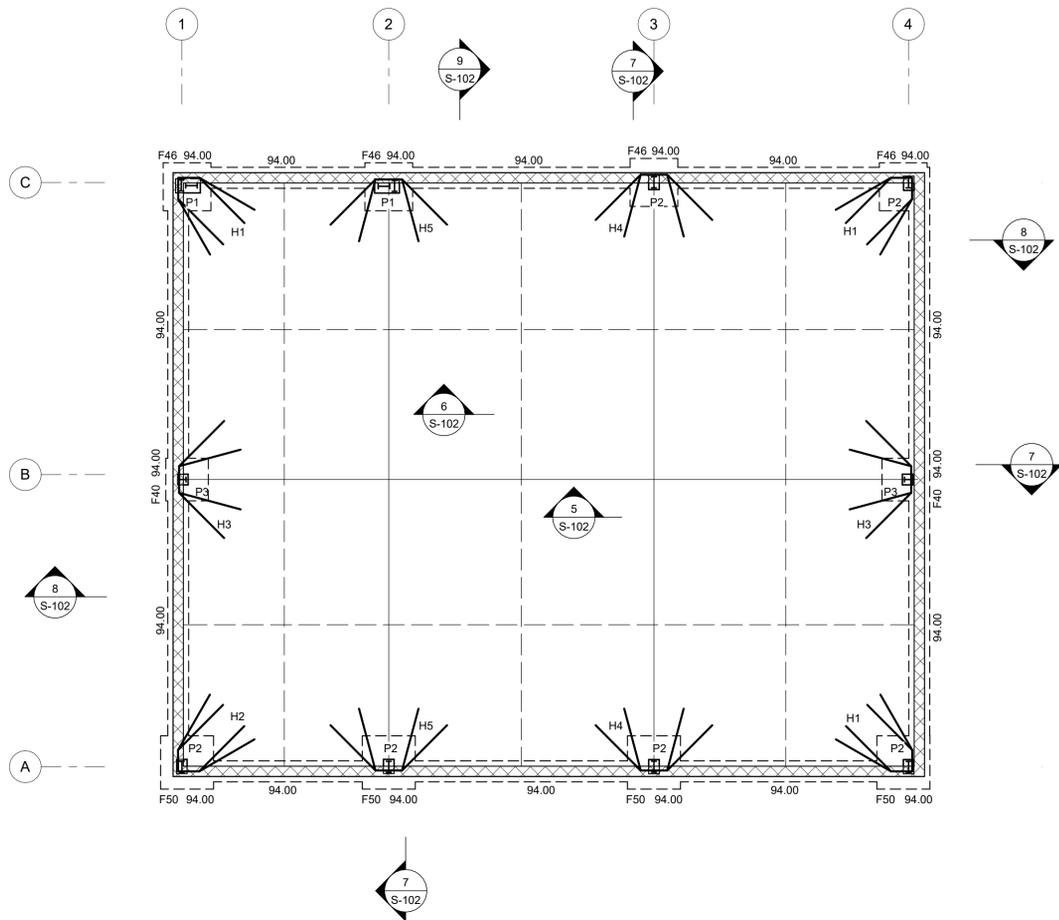
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GENERAL NOTES

**S-100**

SHEET \_\_\_\_\_ OF \_\_\_\_\_



**FOUNDATION PLAN NOTES**

SCALE: 1/4" = 1'-0"

- ELEVATION TOP OF NEW STRUCTURAL SLAB ON GRADE SHALL BE 97.00.
- STRUCTURAL SLAB SHALL BE 5" CONCRETE ( $f_c = 3500$  PSI) SLAB ON GRADE REINFORCED WITH 6"x6" W/2.9 W/2.9 WELDED WIRE FABRIC AND POURED OVER VAPOR BARRIER OVER 4" POROUS FILL.
- ELEVATION BOTTOM OF FOOTING IS SHOWN ON PLAN.
- SOIL BEARING VALUE = 2000 PSF WAS USED IN DESIGN OF THE STRUCTURE. THIS VALUE WAS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_ FOR ADDITIONAL INFORMATION AND REQUIREMENTS SEE PREVIOUSLY MENTIONED REPORT.
- FOR SIZE AND LOCATION OF HAIRPINS, SEE HAIRPIN SCHEDULE ON S-101.
- FOOTING SIZES SHOWN ARE BASED ON BUILDING FRAME REACTIONS PROVIDED BY ALLIED BUILDINGS, DATED 03/26/2025. IF FOUNDATION REACTIONS CHANGE FROM INFORMATION PREVIOUSLY PROVIDED TO OUR OFFICE, MORABITO CONSULTANTS INC. MUST BE NOTIFIED PRIOR TO THE ONSET OF CONSTRUCTION.
- WALL TYPES ARE INDICATED ON THE PLAN ARE THUS:
  - REINFORCED CMU WALLS (ASTM C-90) SEE DETAILS FOR REINFORCING
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS & FINAL PRE-ENGINEERED METAL BUILDING DRAWING.

**FOOTING SCHEDULE**

MARK	SIZE	BOTTOM REINFORCING (EACH WAY)
F40	4'-0"x 4'-0"x 12"	6#4
F46	4'-6"x 4'-6"x 12"	6#4
F50	5'-0"x 5'-0"x 12"	5#5

FOOTINGS ARE SIZED USING PEMB REACTIONS PROVIDED BY ALLIED BUILDINGS DATED 03/26/2025

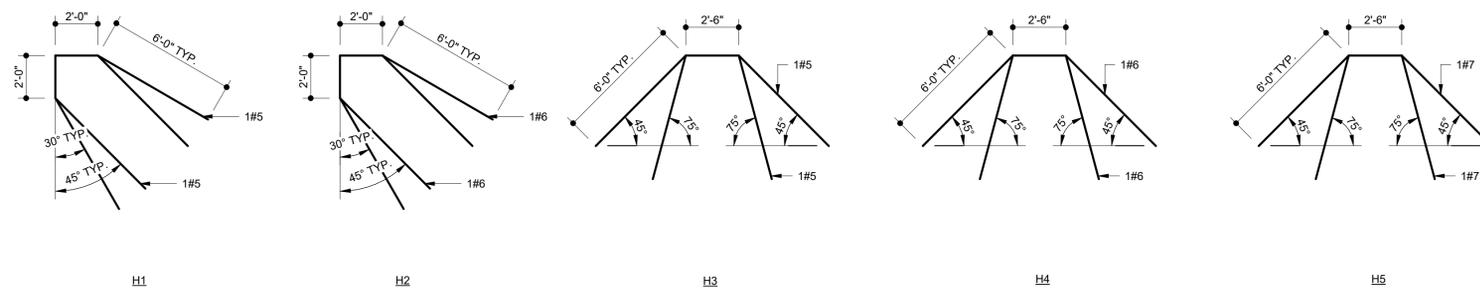
**CONCRETE PEDESTAL SCHEDULE**

MARK	SIZE	VERTICAL REINFORCEMENT
P1	28"x16"	4#10
P2	12"x16"	4#7
P3	12"x12"	4#6

**CONCRETE PEDESTAL NOTES**

- SEE PLAN FOR ORIENTATION OF PEDESTAL. REFER TO DETAILS ON S-102 FOR ADDITIONAL INFORMATION
- ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS.
- ALL PEDESTAL SHALL HAVE #3 TIES IN ACCORDING WITH DETAILS SHOWN ON S101
- DOWELS INTO FOOTING SHALL BE SAME SIZE AND QUANTITY AS VERTICAL REINFORCING + 6" HOOK (TYPICAL).

PRIOR TO THE ONSET OF CONSTRUCTION, MORABITO CONSULTANTS INC. MUST BE FURNISHED THE FINAL METAL BUILDING REACTIONS FROM THE SELECTED METAL BUILDING SUPPLIER. MORABITO CONSULTANTS INC. MUST HAVE THE OPPORTUNITY TO ASSURE THAT THE FOOTING AND PEDESTAL SIZES SHOWN ARE ADEQUATE TO SUPPORT THE FINAL METAL BUILDING REACTIONS. FOOTING AND PEDESTAL SIZES ARE SUBJECT TO CHANGE PENDING THE RECEIPT OF THE FINAL METAL BUILDING FRAME REACTIONS. ALL COSTS FOR MORABITO CONSULTANTS INC. TO CHECK THE COMPLETED FOUNDATION DESIGN WITH THE SELECTED METAL BUILDING FRAME REACTIONS SHALL BE BORNE BY THE CONTRACTOR.



CONTRACTOR MAY ELECT TO SPLICE HAIRPINS AS NECESSARY. MAINTAIN 2'-6" MIN. LAP AT ALL #3 BARS.

**1 HAIRPINS SCHEDULE**  
1/4" = 1'-0"

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CALVERT COUNTY

28 APRIL 2025

COLIMORE PROJECT NO: 00000



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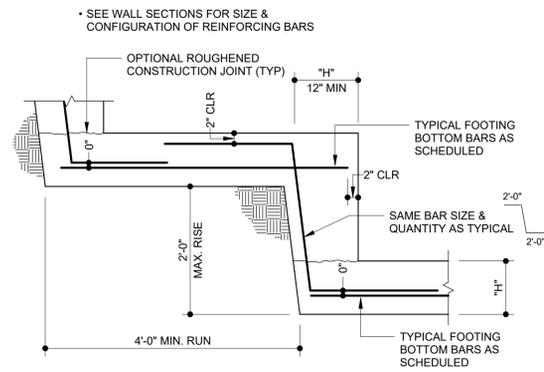
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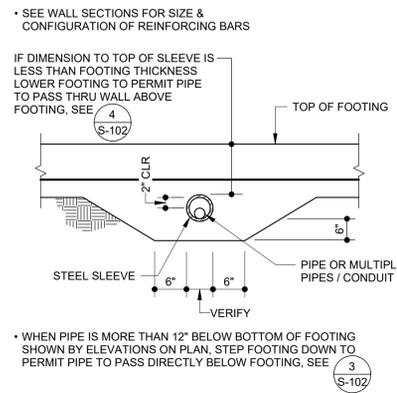
FOUNDATION PLAN

**S-101**

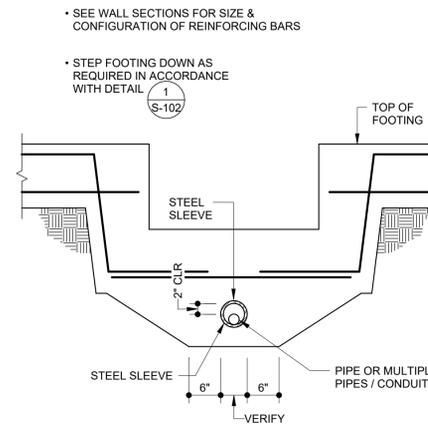
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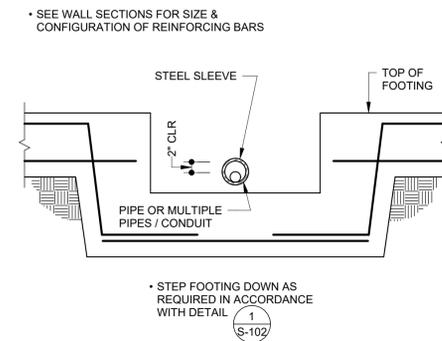
**1 STEPPED FOOTING WITH BAR**  
3/4" = 1'-0"



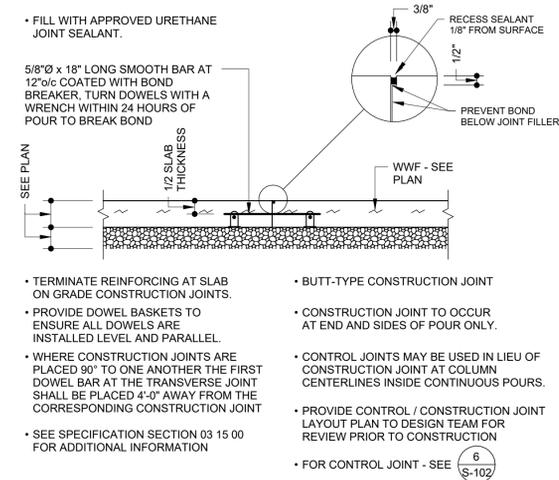
**2 PIPE SLEEVE THROUGH FOOTING**  
3/4" = 1'-0"



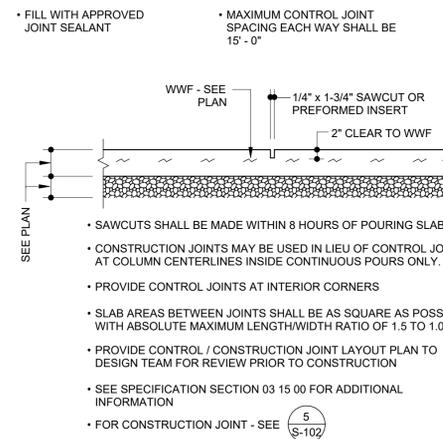
**3 STEPPED FOOTING DOWN AT PIPE SLEEVE**  
3/4" = 1'-0"



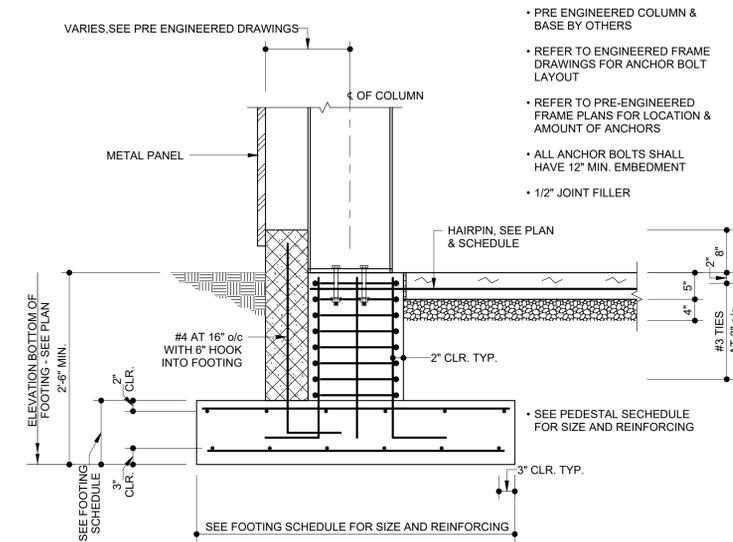
**4 STEPPED FOOTING UNDER PIPE SLEEVE**  
3/4" = 1'-0"



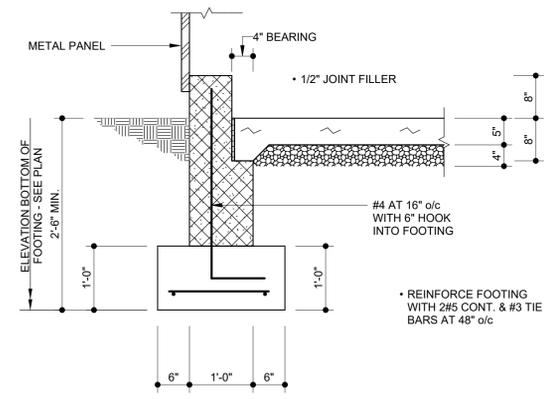
**5 CONSTRUCTION JOINT IN SLAB ON GRADE**  
3/4" = 1'-0"



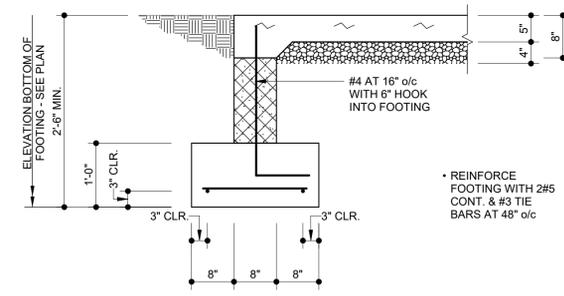
**6 CONTROL JOINT IN SLAB ON GRADE**  
3/4" = 1'-0"



**7 TYPICAL COLUMN FOOTING**  
3/4" = 1'-0"



**8 TYPICAL FOUNDATION WALL AND WALL FOOTING**  
3/4" = 1'-0"



**9 TYPICAL FOUNDATION WALL AT OPEN WALL**  
3/4" = 1'-0"

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CALVERT COUNTY

28 APRIL 2025

COLIMORE PROJECT NO: 00000



MARK	DATE	DESCRIPTION

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TYPICAL DETAILS & WALL  
SECTIONS

**S-102**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

ACC	AIR COOLED CONDENSER	KW	KILOWATTS
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS
APD	AIR PRESSURE DROP	MBH	THOUSAND BTU PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CU	CONDENSING UNIT	OBD	OPPOSED BLADE DAMPER
DB	DRY BULB	OED	OPEN END DUCT
DWG	DRAWING	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RLA	RATED LOAD AMPS
EF	EXHAUST FAN	RTU	ROOFTOP UNIT
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
FCD	FAN COIL UNIT	FSD	COMBINATION FIRE/SMOKE DAMPER
FD	FIRE DAMPER	V	VOLTS
FLA	FULL LOAD AMPS	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	WB	WET BULB
HP	HEAT PUMP, HORSEPOWER	WG	WATER GAUGE
ABV.	ABOVE	WSHP	WATER SOURCE HEAT PUMP
BLW.	BELOW	WPD	WATER PRESSURE DROP
CLG.	CEILING	OEP	OPEN END PIPE
FLR.	FLOOR		
AFF.	ABOVE FINISHED FLOOR		
FF.	FINISHED FLOOR		
EX.	EXISTING		
TYP.	TYPICAL		
VTR.	VENT PIPE THRU ROOF		
W.	WITH		
DN.	DOWN		
BFP.	BACKFLOW PREVENTER		

**ABBREVIATIONS**

— CW —	COLD WATER PIPE	— F —	FIRE PROTECTION / SPRINKLER PIPE
— HW —	HOT WATER PIPE	— ST —	STORM PIPE
— HWR —	HOT WATER CIRCULATION PIPE	— V —	VENT PIPE
— D —	CONDENSATE DRAIN PIPE	— S —	SOIL OR WASTE PIPE

**PIPING SYSTEMS**

LINETYPE LEGEND	
—	EXISTING TO REMAIN
- - -	DEMOLITION
—	NEW WORK

**NOTE:**  
THIS IS A STANDARD LEGEND AND ABBREVIATION LIST SOME ITEMS INDICATED MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

	SUPPLY AIR DEVICE		DOOR UNDERCUT
	RETURN AIR DEVICE		DOOR LOUVER (SIZE AS INDICATED)
	EXHAUST AIR DEVICE		THERMOSTAT (PNEUMATIC)
	REMOVE EXISTING		THERMOSTAT (DOC)
	EXISTING TO REMAIN		THERMOSTAT WITH GUARD
	NEW WORK		CARBON DIOXIDE SENSOR
	FLEXIBLE DUCTWORK		2-HOUR OVERRIDE SWITCH FOR ROOF TOP UNIT SERVING THIS ZONE
	SPIRAL DUCTWORK		WALL MOUNTED SWITCH WITH PILOT LIGHT
	SOUND LINED DUCT		ROUND
	DUCT DROP OR RISE IN DIRECTION SHOWN		FLAT OVAL
	FLEXIBLE CONNECTION		POINT OF CONNECTION NEW TO EXISTING
	ELBOW WITH TURNING VANES		LIMIT OF REMOVAL
	OVAL TAP		AIR OUT OF AIR TERMINAL
	FIRE DAMPER (FD)		AIR INTO AIR TERMINAL
	SMOKE DAMPER (SD) MAY BE MODULATED BETWEEN THE OPEN AND CLOSED POSITIONS TO SERVE AS BOTH A SMOKE DAMPER AND A VOLUME DAMPER		EXISTING
	COMBINATION SMOKE/FIRE DAMPER (SFD)		DUCT SMOKE DETECTOR
	VOLUME DAMPER (V.D.)		HUMIDISTAT
	MOTORIZED DAMPER (M.D.)		HUMIDISTAT WITH GUARD
	REMOTE TEMPERATURE SENSOR		FIRESTAT
	STATIC PRESSURE SENSOR		DRAWING NOTE

**MECHANICAL SYMBOLS**

	FLEXIBLE PIPE CONNECTION		CONTINUATION
	CAPPED PIPE		FLOW SWITCH
	PIPE TURNING UP		RECESSED SPRINKLER HEAD
	PIPE TURNING DOWN		PENDANT SPRINKLER HEAD
	HOSE BIBB (HB)		SIDE WALL SPRINKLER HEADS
	BOTTOM TAKE OFF		SPRINKLER WIGUARD
	TOP TAKE OFF		SIAMESE
	POINT OF CONNECTION		FLOOR SINK
	WALL HYDRANT (WH)		FUNNEL FLOOR DRAIN
	UNION		OPEN SITE DRAIN
	VERTICAL VALVE		FLOOR DRAIN
	ANGLE STOP VALVE		FLOOR CLEANOUT
	OUTSIDE SCREW AND YOKE VALVE, OS&Y		WALL CLEANOUT
	OS&Y w/ TAMPER SWITCH		POINT OF CONNECTION FIRE HOSE CABINET
	OS&Y w/ TAMPER SWITCH		BACK FLOW PREVENTER
	3-WAY CONTROL VALVE		EXTENT OF DEMOLITION
	2-WAY CONTROL VALVE		DOUBLE CHECK VALVE
	FLOW MEASURING FITTING		EXTENT OF DEMOLITION
	THERMOMETER		NEW TO EXISTING
	PRESSURE GAGE WITH NIPPLE AND GAGE COCK		WASTE RISER DESIGNATION
	PRESSURE REDUCING VALVE		WATER RISER DESIGNATION
	BALANCING VALVE		STORM RISER DESIGNATION
	GATE VALVE		GAS RISER DESIGNATION
	GAS COCK		WASE VENT RISER DESIGNATION
	SOLENOID OPERATED VALVE		DRAWING NOTE
	DRAIN VALVE		
	GAS PRESSURE REGULATOR		
	BUTTERFLY VALVE		
	CHECK VALVE		
	BALL VALVE		

**PIPING SYMBOLS**

- MECHANICAL CONTRACTOR SHALL INSTALL CEILING AIR DEVICES IN GRID AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON PLAN. COORDINATE LOCATION WITH LIGHT FIXTURES AND SPRINKLER HEADS.
- THERMOSTAT LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. MOUNT THERMOSTATS 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- PROVIDE ALL THERMOSTATS (AND HUMIDISTATS) WITH LOCKABLE CLEAR LEXAN GUARD. GUARD SHALL BE KENDALL MODEL TG.
- SEE ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL ROOF MOUNTED EQUIPMENT AND FOR THE LOCATION OF ROOF PENETRATIONS.
- INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION TO DETERMINE FULLY THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION.
- LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE. SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.
- MOUNT ALL THERMOSTATS ON EXTERIOR WALLS ON AN INSULATED SUB-BASE, WHERE INDICATED ON EXTERIOR WALLS.
- AFTER INSTALLATION AND START-UP, CONTRACTOR SHALL THOROUGHLY CHECK EACH ITEM OF EQUIPMENT FOR VIBRATION TRANSMISSION TO THE STRUCTURE OR EXCESSIVE NOISE, AND IF EITHER OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE FAULTY SITUATION IMMEDIATELY.
- WHEREVER PIPES, DUCTWORK OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN THE ITEMS AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND SLEEVE. FIRE STOP SHALL BE A NON-COMBUSTIBLE, NON-MELTING, APPROVED MATERIAL.
- ALL ROUND RUNOUTS AND FLEXIBLE DUCTWORK TO A SINGLE CEILING DIFFUSER SHALL BE SAME SIZE AS DIFFUSER NECK, UNLESS OTHERWISE INDICATED.
- INSTALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT.
- PROVIDE TRAPS FOR CONDENSATE DRAIN LINES WHICH ARE NOT INTERNALLY TRAPPED.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR ORIGINATED MODIFICATIONS TO THE MECHANICAL EQUIPMENT'S ELECTRICAL INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENT'S "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.
- HOLD ALL DUCTWORK RUNNING PARALLEL TO A RATED WALL A MINIMUM OF 6" AWAY FROM THE WALL.

**MECHANICAL GENERAL NOTES**

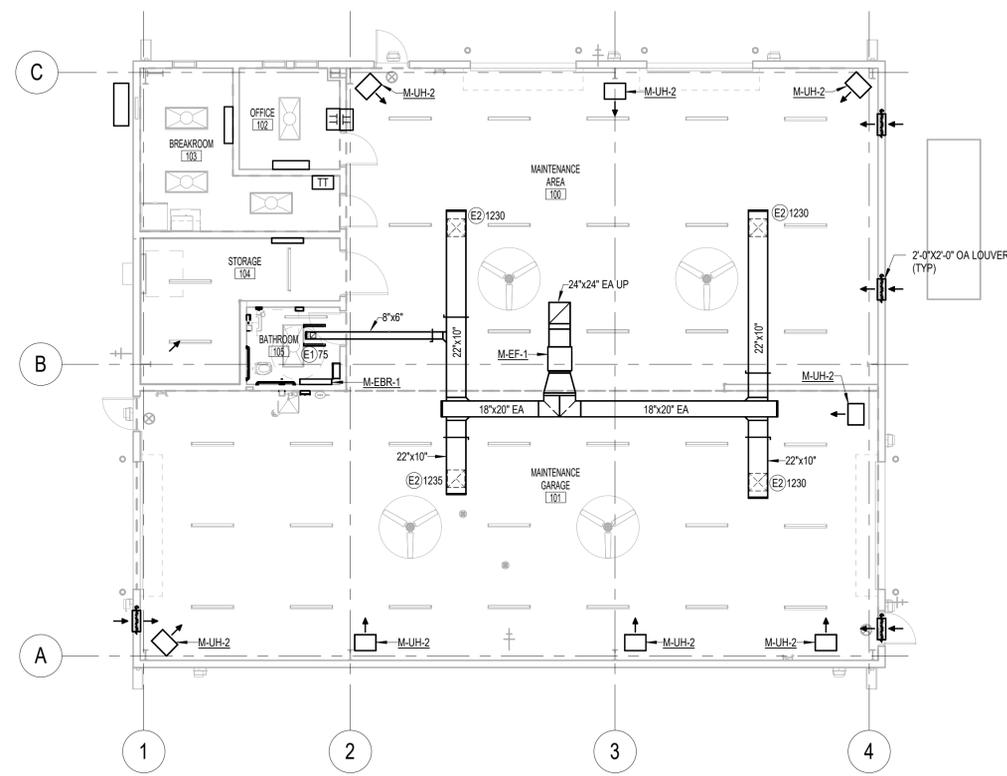
- ALL PLUMBING WORK SHALL CONFORM WITH ALL STATE AND LOCAL CODES, RULES AND REGULATIONS.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS.
- PLUMBING CONTRACTOR SHALL INFORM SUBCONTRACTOR OF QUANTITY AND LOCATION OF ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS. ACCESS PANELS SHALL BE INSTALLED BY THE APPROPRIATE SUBCONTRACTOR.
- FOR ALL SIZES OF WASTE, VENT, HOT AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER RISER DIAGRAMS.
- ALL COLD AND HOT WATER PIPING SHALL BE INSULATED AND ALL PIPING SHALL BE INSTALLED INSIDE OF THE BUILDING INSULATION ENVELOPE.
- ALL SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- ALL SLOPES AND INVERTS ELEVATIONS SHALL BE CHECKED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
- MAKE PROPER WASTE, VENT, HOT AND COLD WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE.
- THESE DRAWINGS ARE DIAGRAMMATIC, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATION OF ALL FIXTURES AND EQUIPMENT.
- ALL PIPE PENETRATIONS BELOW SINKS SHALL BE SEALED.
- ALL EXPOSED PIPING UNDER HANDICAP LAVATORY TO BE INSULATED.
- CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH VENT PIPE IN WALL.
- PLUMBING CONTRACTOR SHALL DISINFECT POTABLE WATER SYSTEM PER SECTION 611 IN THE 1995 INTERNATIONAL PLUMBING CODE.
- PLUMBING CONTRACTOR SHALL X-RAY POST-TENSIONED SLAB AFTER WORK HOURS BEFORE ANY CORE DRILLING. COORDINATE TIME WITH BUILDING MANAGEMENT.
- SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:  
A. ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE OTHER THAN BATHTUBS AND SHOWERS.  
B. ON THE SUPPLY PIPE TO EACH SILLCOCK.  
C. ON THE SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.

**PIPING GENERAL NOTES**



MARK	DATE	DESCRIPTION

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**MECHANICAL LEGEND**

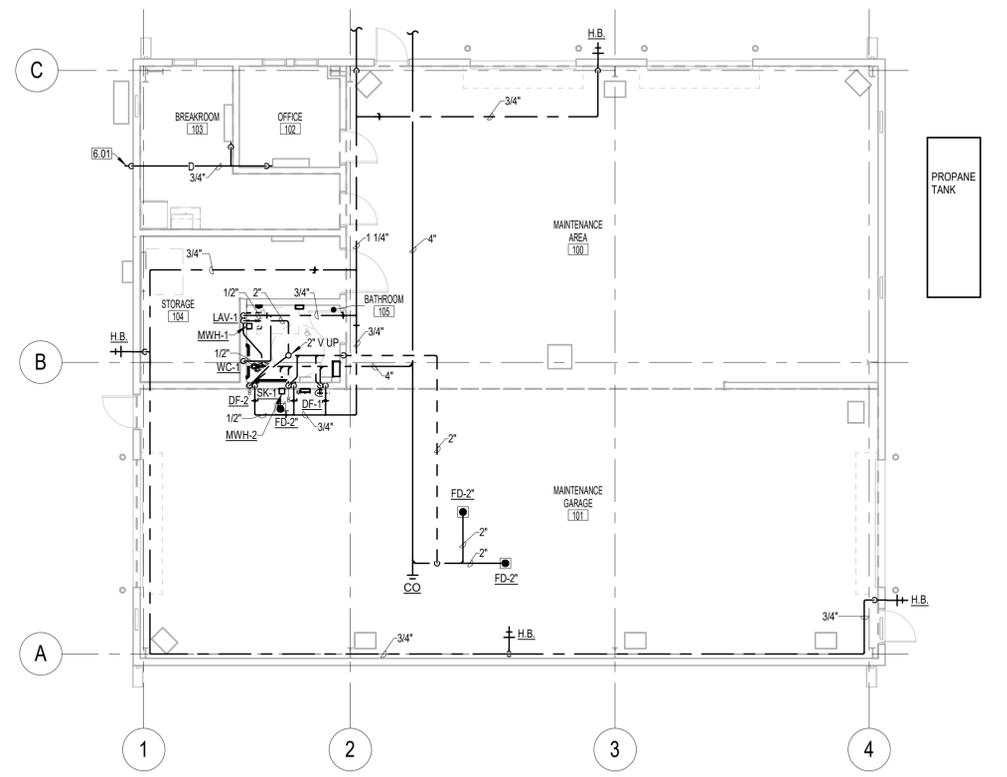


1  
M102 FLOOR PLAN - HVAC  
1/8" = 1'-0"

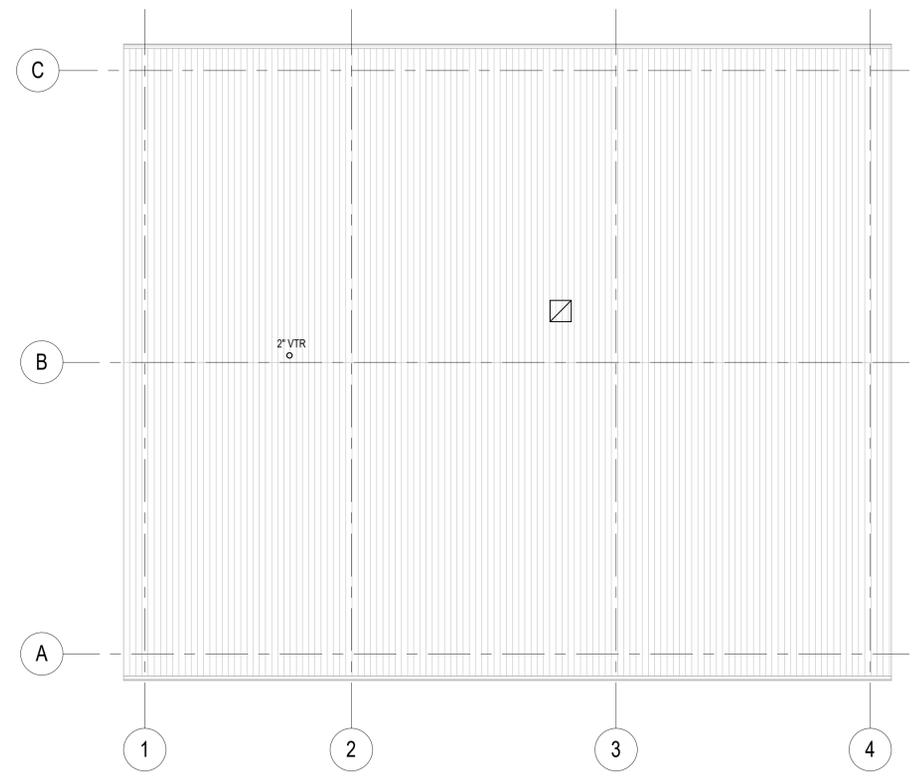
**DRAWING NOTES:**

6.01 DISCHARGE INDIRECT AT GRADE WITH SPLASH BLOCK.

- GENERAL NOTES:**
- 1 SYSTEMS SHALL BE INSTALLED CONCEALED WITHIN STUD/DRYWALL WALLS. SURFACE MOUNTED ON MASONRY WALLS.
  - 2 PROVIDE ACCESS DOORS IN HARD CEILINGS FOR VALVES, EQUIPMENT, AND OTHER APPURTENANCES REQUIRING SERVICE. REFER TO ARCHITECTURAL PLANS FOR COORDINATION. INSTALL IN SERVICEABLE LOCATION COORDINATED WITH ACTUAL INSTALLATION OF DEVICES.
  - 3 ALL TRADES ARE TO BE INDEPENDENTLY SUPPORTED. PER ALL TRADE STANDARDS AND NFPA. NOTHING CAN TOUCH THE SPRINKLER PIPING OR SUPPORT/HANGERS. SYSTEMS CANNOT BE SUPPORTED FROM OTHER PARTS OF A SYSTEM. EACH PIPE SHOULD BE SUPPORTED INDEPENDENTLY OF EACH OTHER.
  - 4 ALL INDOOR AIR HANDLING EQUIPMENT SHALL BE PROVIDED WITH A WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 SHALL BE PROVIDED THAT WILL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR IN THE EQUIPMENT-SUPPLIED DRAIN PAN, LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
  - 5 ALL EXISTING AND NEW PENETRATIONS IN THE AREA OF WORK SHALL BE SEALED PER THE PROJECT SPECIFICATIONS.



2  
M102 FLOOR PLAN - PLUMBING  
1/8" = 1'-0"



3  
M102 ROOF PLAN - PLUMBING  
1/8" = 1'-0"



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PROJECT NAME:  
**WARD RECREATION MAINTENANCE FACILITY**  
CALVERT COUNTY

75 CD  
28 APRIL 2025

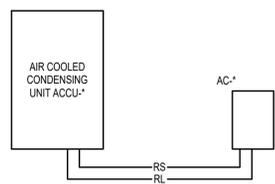
COLIMORE PROJECT NO: 24-024



MARK	DATE	DESCRIPTION

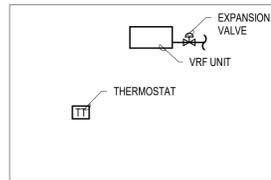
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FLOOR PLAN

**M102**  
SHEET \_\_\_\_\_ OF \_\_\_\_\_



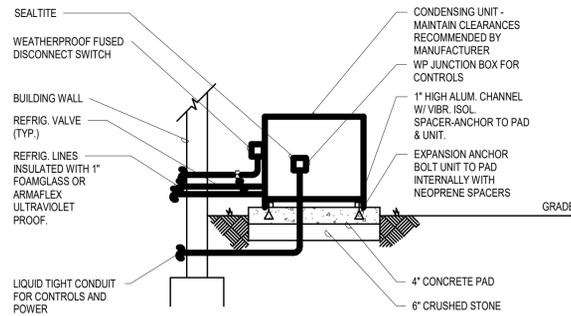
**SPLIT SYSTEM AIR CONDITIONING UNIT**

SEQUENCE OF OPERATION  
 COOLING MODE  
 UPON A RISE IN SPACE TEMPERATURE ABOVE ITS SETPOINT OF 85°F (ADJUSTABLE) THE INDOOR UNIT AND AIR COOLED CONDENSING UNIT (ACCU) SHALL BE ENERGIZED. ACCU SHALL CYCLE THE COMPRESSOR TO MAINTAIN THE SETPOINT TEMPERATURE. UPON A DROP IN SPACE TEMPERATURE BELOW 80°F THE AIR COOLED CONDENSING UNIT SHALL BE DEENERGIZED.



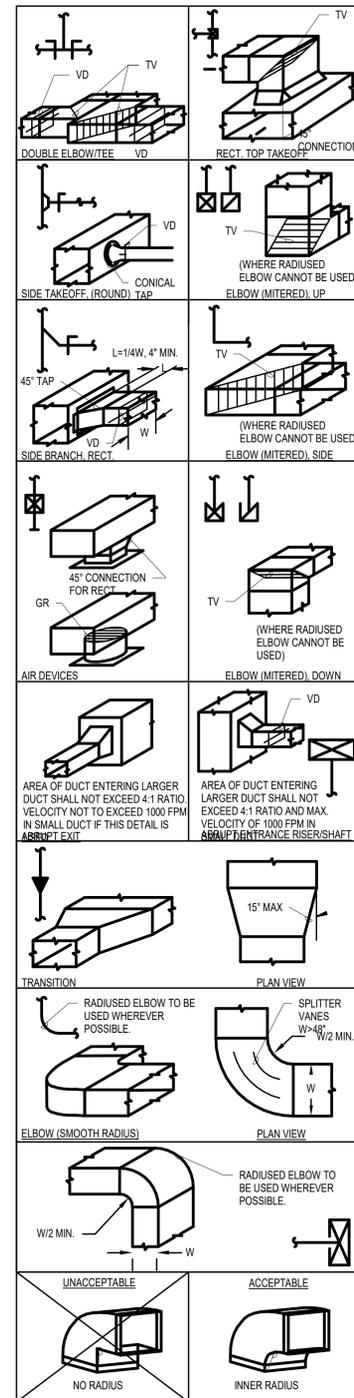
**VRF CONTROL DIAGRAM**

- THE UNIT SHALL MODULATE THE ELECTRONIC EXPANSION VALVE TO MAINTAIN SPACE SETPOINT.
- WHERE MULTIPLE UNITS SERVE THE SAME SPACE, A SINGLE THERMOSTAT SHALL CONTROL ALL UNITS SERVING THE SPACE (TYP.).
- EACH THERMOSTAT SHALL HAVE INDIVIDUAL OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINTS.
- EACH THERMOSTAT SHALL BE CAPABLE OF INDIVIDUAL TIME/DAY SCHEDULING.
- ALL SETPOINTS SHALL BE ADJUSTABLE THRU THE EMCS.
- ALL SENSORS AND CONTROLS SHALL BE CONNECTED TO THE VRF MANUFACTURER CONTROLLER.
- ALL SENSORS AND CONTROLS SHALL BE PROVIDED BY THE VRF MANUFACTURER.
- ALL SENSORS AND DEVICES SHALL BE CONNECTED TO VRF MANUFACTURER CONTROLLER BY THE ATC CONTRACTOR.
- VRF MANUFACTURER SHALL BE RESPONSIBLE FOR ALL VRF OPERATION COMMISSIONING.



**GRADE MOUNTED CONDENSING UNIT/HEAT PUMP DETAIL**

SCALE: NONE  
 NOTE:  
 UP TO 5 TONS.



**DUCTWORK DETAIL**

NOT TO SCALE

- ABBREVIATIONS:
- GR EQUALIZING GRID
  - TV TURNING VANES
  - VD VOLUME DAMPER
  - AT AIR TURN OR EXTRACTOR

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PROJECT NAME:

**WARD RECREATION  
 MAINTENANCE  
 FACILITY  
 CALVERT COUNTY**

75 CD  
 28 APRIL 2025

COLIMORE PROJECT NO: 24-024



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MECHANICAL DETAILS

**M501**

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VENTILATION SCHEDULE (IMC 403)

LOCATION		OUTSIDE AIR DATA										EXHAUST AIR DATA					
#	NAME	SPACE TYPE	AREA (SF)	VOLUME (CF)	OCCUPANCY DENSITY (#/1000SF)	OCCUPANCY	PER PERSON (Rp)	PER AREA (Ra)	0 = ZERO FLOW PERMITTED IN STANDBY W/ OCC SENSOR		ASHRAE 62.1 CFM (Ra+Rp)	QTY FIXTURES	CFM / FIXTURE	CFM / SF	CFM REQ'D FOR SF	TOTAL CFM REQ'D	PRESS.
									OA MINIMUM	ASHRAE 62.1 CFM (Ra+Rp)							
FIRST FLOOR PLAN																	
100	MAINTENANCE AREA	Auto Repair	1514	22412			0	0	1	0		0	1.5	2271		NEG	
101	MAINTENANCE GARAGE	Auto Repair	1770	26125			0	0	1	0		0	1.5	2654		NEG	
102	OFFICE	Office Space Enclosed	90	814	5	1	5	0.06	0	0	10	0					
103	BREAKROOM	Break Room	187	1685	25	5	5	0.06	0	0	36	0	0.3	96		NEG	
104	STORAGE	Storage Rooms	186	2785	0	0	0	0	1	0	0	0	0	0			
105	BATHROOM	Toilet - Private	64	575	0	0	0	0	1	0	0	25	0	0		NEG	
			3811							0	47				0		

FAN SCHEDULE (F-\*)

WT	AIRFLOW (CFM)	ESP (IN WC)	DRIVE	TYPE	HP	FAN RPM	ELECTRICAL					BASIS OF DESIGN		WEIGHT (LBS)	COMMENTS
							VOLTS	PHASE	HZ	MCA	MOP	MANUF.	MODEL		
M-EF-1	5000	0.75	DIRECT	INLINE	1.5	1750	115	1	60	25	45	GREENHECK	SO-16-M2	115	

- NOTES:  
1. INCLUDE BACKDRAFTMOTOR OPERATED DAMPER OPTION THAT OPENS AND CLOSSES WITH THE OPERATION OF THIS FAN.  
2. ALL FANS SHALL START AND STOP WHEN SIGNALLED FROM THE INTERLOCK DEVICE NOTED IN THE SCHEDULE.  
3. NEMA 1 DISCONNECT SWITCH AND STARTER IS FACTORY MOUNTED AND WIRING IS PROVIDED FROM THE MOTOR.

AIR DEVICE SCHEDULE

NO.	MAX CFM	SERVICE	DESCRIPTION	NOMINAL SIZE		NECK SIZE		INLET/NECK SIZE	MAX N.C. LEVEL	FINISH	REMARKS
				LENGTH	WIDTH	LENGTH	WIDTH				
E1	135 CFM	Exhaust Air	EXHAUST REGISTER	6	6	6	6	6"x6"	20	#26 FINISH	350RL TYPE 1
E2	1290 CFM	Exhaust Air	EXHAUST REGISTER	20	20	20	20	20"x20"	18	#26 FINISH	350RL TYPE 1

UNIT HEATER SCHEDULE (UH-\*)

NO.	AREA SERVED	DISCHARGE TYPE	SUPPLY AIRFLOW (CFM)	HEATING CAPACITY (MBH)	ELECTRICAL			BASIS OF DESIGN		COMMENTS
					VOLTS	PHASE	HZ	MANUFACTURER	MODEL	
M-UH-2	MAINTENANCE	HORIZONTAL	700 CFM	34.1	120 V	1	60	TRANE	GTNE	PROPANE

- NOTES:  
1. PROVIDE WITH INTEGRAL THERMOSTAT.  
2. PROVIDE INTEGRAL DISCONNECT SWITCH.

ELECTRIC BASEBOARD SCHEDULE (EBR-\*)

NO.	AREA SERVED	MOUNTING TYPE	LENGTH	WATTS PER FOOT	NUMBER OF ELEMENTS	ELECTRICAL			BASIS OF DESIGN		COMMENTS
						KW	VOLTS	PHASE	HZ	MANUFACTURER	
M-EBR-1	BATHROOM	FLOOR	3'-0"	250	1	0.75	208 V	1	60	MARKEL	F 93 36 250 1

- NOTES:  
1. PROVIDE WITH INTEGRAL THERMOSTAT.  
2. PROVIDE INTEGRAL DISCONNECT SWITCH.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	System 2	
	IU-2	IU-1
Tag Reference	IU-2	IU-1
Nominal Data	Room Name	
	M-NET Address	N/A
	Model	MSZ-EX12NLB
	Type	Wall-Mounted
Design Conditions	Nominal Cooling Capacity (BTU/h)	10,000
	Nominal Heating Capacity (BTU/h)	11,000
	Cooling Design Entering Temp DBWB (°F) / [Water in temp]	80.0/67.0
	Heating Design Entering Temp DBWB (°F) / [Water in temp]	70.0
Performance Data	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 3/8
	Cooling Total Capacity (BTU/h)	9,938.9
Fan / Water Flow Data	Cooling Sensible Capacity (BTU/h)	8,943.9
	Heating Capacity (BTU/h)	11,000.0
	Estimated Cooling Coil LAT (°F) / [LWT]	58.4
	Estimated Heating Coil LAT (°F) / [LWT]	96.1
Electrical Data	Fan Speed Setting	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	391
	Max Fan ESP Setting 208V/230V (IN WG)	
	Sound Pressure Per Fan Speed 208V/230V (dBA)	21-24-29-36-42/21-24-30-38-46
Notes / Options	Voltage / Phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	3.650
	Power Heating 208V/230V (kW)	4.66
	Electrical MCA/MFS	Powered by Outdoor
Condensate Removal Rate (gal/hr)	0.02	0.02
Actual Port Assignments		
Applicable System Notes - See Notes Below	1, 2, 3, 4	1, 2, 3, 4

- Notes & Options:  
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DBWB), outdoor of 95°F (DB)  
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)  
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities  
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.  
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.  
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.  
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.  
6 It is recommended to always base heating corrected capacity on full demand.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	System 2	
	CU-2	
Tag Reference	CU-2	
Nominal Data	M-NET Address	N/A
	Model Number	MXZ-2D20NL
	Modules	
	Nominal Cooling Capacity (BTU/h)	18,000
	Nominal Heating Capacity (BTU/h)	22,000
	Cooling Efficiency (EER) [SEER]	0 [0]
	EER2 [SEER2]	13 [10]
	Heating COP @ 47°F [HSFP]	3.92 [10]
	Nom System Connected Capacity (% of NDM)	120.0 %
	Design Cooling Outdoor Temp DB (F)	95.0
Design Conditions	Design Heating Outdoor Temp WB (F)	43.0
	Max Pipe Length from BC or 1st Joint (feet)	0.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	--- / ---
Performance Data	Corrected Cooling Total Capacity (BTU/h)	19,877.8
	Corrected Heating Capacity (BTU/h)	22,000.0
Compressor Data	Sound Pressure (dBA)	51/55
	Compressor Type	
Electrical Data	Compressor Quantity	
	Preliminary Added Field Charge (See Note 5)	0.0
Notes / Options	Voltage / Phase	208/230V / 1-phase
	MCA 208/230 or [460V]	
	Recommended Fuse Size (RFS)	20
	MOCIP	
Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6, 7, 8, 9	

- Notes & Options:  
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DBWB), outdoor of 95°F (DB)  
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)  
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.  
4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.  
5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.  
6 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment  
7 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations  
8 Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment  
9 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment

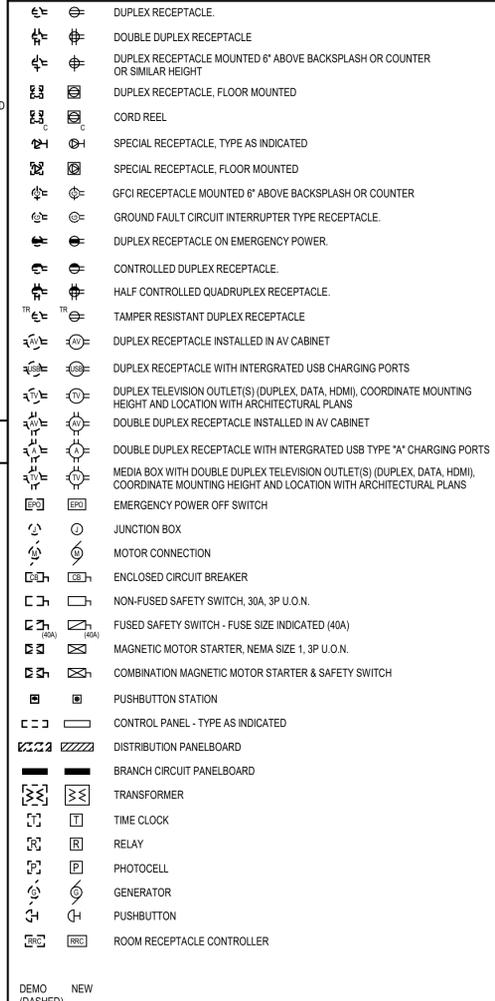
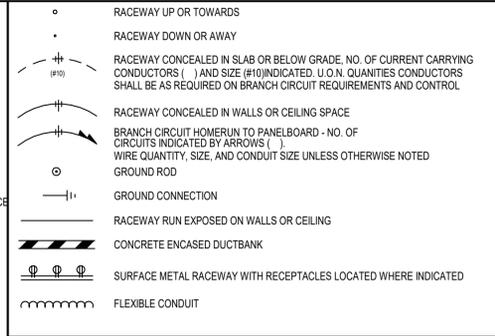


A	- AMPERE	FR	- FRAME	P	- POLE
AC	- ALTERNATING CURRENT	FA	- FIRE ALARM	PB	- PUSHBUTTON
AC	- AIR CONDITIONING	FAAP	- FIRE ALARM ANNUNCIATOR PANEL	PF	- POWER FACTOR
AFF	- ABOVE FINISHED FLOOR	FACP	- FIRE ALARM CONTROL PANEL	PL	- PILOT LIGHT
AHU	- AIR HANDLING UNIT	FBO	- FURNISHED BY OTHERS	PNL	- PANEL
ALT	- ALTERNATE	FD&A	- FIRE DETECTION AND ALARM	PP	- POWER PANEL
ANN	- ANNUNCIATOR	FC	- FAN COIL	PT	- POTENTIAL TRANSFORMER
APPROX	- APPROXIMATELY	FDR	- FEEDER	PV	- POLYVINYL CHLORIDE
ARCH	- ARCHITECT	FLA	- FULL LOAD AMPERES	Pp	- Pump
ATS	- AUTOMATIC TRANSFER SWITCH	FLR	- FLOOR	RCS	- REMOTE CONTROL SWITCH
AWG	- AMERICAN WIRE GAUGE	FU	- FUSED AND FUSIBLE	REC, RECPT	- RECEPTACLE
BLDG	- BUILDING	FUS	- FUSED SAFETY SWITCH	REQD	- REQUIRED
C, CHD	- CONDUIT	GFCI	- GROUND CIRCUIT FAULT INTERRUPTER	RFI	- RADIO FREQUENCY INTERFACE
CATV	- CABLE TELEVISION	GRD	- GROUND	RGS	- RIGID GALVANIZED STEEL
CB	- CIRCUIT BREAKER	HID	- HIGH INTENSITY DISCHARGE	RLA	- RUNNING LOAD AMPERES
CCTV	- CLOSED CIRCUIT TELEVISION	HOA	- HAND-OFF-AUTOMATIC	RM	- ROOM
CKT	- CIRCUIT	HP	- HORSEPOWER	RX	- REMOVE EXISTING
CLG	- CEILING	HPS	- HIGH PRESSURE SODIUM	SN	- SOLID NEUTRAL
CONN	- CONNECT	HTR	- HEATER	SP	- SURGE PROTECTION
CPT	- CONTROL POWER TRANSFORMER	HV	- HIGH VOLTAGE	SS	- SAFETY SWITCH
CK	- CONNECT TO EXISTING	HZ	- HERTZ	ST	- SINGLE THROW
DC	- DIRECT CURRENT	IG	- ISOLATED GROUND	SW	- SWITCH
DISC	- DISCONNECT	JB	- JUNCTION BOX	SWBD	- SWITCHBOARD
DN	- DOWN	KV	- KILOVOLTS	TBR	- TO BE REMOVED
DP	- DISTRIBUTION PANEL	KVA	- KILO-VOLT-AMPERES	TC	- TIME CLOCK
DT	- DOUBLE THROW	KW	- KILOWATTS	TH	- TUNGSTEN HALOGEN
DWG	- DRAWING	LC	- LIGHTING CONTACTOR	TR	- TO REMAIN
E	- EMERGENCY	LTG	- LIGHTING	TTB	- TELEPHONE TERMINAL BOARD
EA	- EACH	LTNG	- LIGHTNING	TYP	- TYPICAL
EC	- EMPTY CONDUIT	LP	- LIGHTING PANEL	UCB	- UNIT CIRCUIT BREAKER
EF	- EXHAUST FAN	LP	- LIGHTING PANEL	UG	- UNDERGROUND
EH	- ELECTRIC HEATER	MATV	- MASTER ANTENNA TELEVISION	UH	- UNIT HEATER
ELECT	- ELECTRIC	MCB	- MAIN CIRCUIT BREAKER	UJ	- UNLESS OTHERWISE NOTED
ETR	- EXISTING TO REMAIN	MCC	- MOTOR CONTROL CENTER	UV	- UNIT VENTILATOR
EX	- EXISTING	MEH	- METAL HALIDE	V	- VOLTS
EXP	- EXPOSED	MH	- MOUNTING HEIGHT	W	- WATTS
EX PRF	- EXPLOSION PROOF	MLO	- MAIN LUGS ONLY	W	- WITH
		MSP	- MOTOR STARTER PANEL	WP	- WEATHER-PROOF
		MTD	- MOUNTED	XFMR	- TRANSFORMER
		MV	- MERCURY VAPOR		
		NC	- NORMALLY CLOSED		
		NO	- NORMALLY OPEN		
		OC	- ON CENTER		
		OH	- OVERHEAD		
		O	- PHASE		

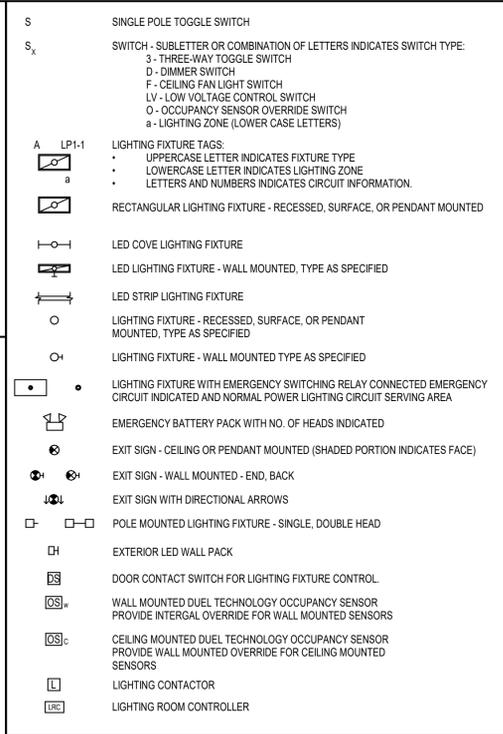
### ELECTRICAL ABBREVIATIONS

LINETYPE LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NEW WORK
	FIRE ALARM DEVICES

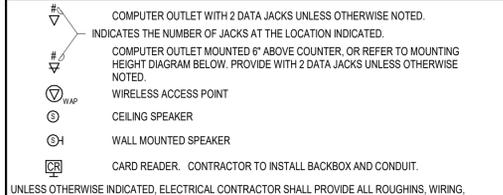
BRANCH CIRCUITS SCHEDULE	
CIRCUIT BREAKER	CONDUCTORS & CONDUIT
<b>120 or 277 VOLT, 1Ø, 2W CIRCUITS</b>	
30A-1P	2 #10 & 1 #10 GROUND - 3/4" CONDUIT
40A-1P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
50A-1P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
60A-1P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
<b>208 VOLT, 1Ø, 2W CIRCUITS</b>	
20A-2P	2 #12 & 1 #12 GROUND - 3/4" CONDUIT
30A-2P	2 #10 & 1 #10 GROUND - 3/4" CONDUIT
40A-2P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
50A-2P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
60A-2P	2 #8 & 1 #10 GROUND - 3/4" CONDUIT
<b>208 or 480 VOLT, 3Ø, 3W CIRCUITS</b>	
20A-3P	3 #12 & 1 #12 GROUND - 3/4" CONDUIT
30A-3P	3 #10 & 1 #10 GROUND - 3/4" CONDUIT
40A-3P	3 #8 & 1 #10 GROUND - 3/4" CONDUIT
50A-3P	3 #8 & 1 #10 GROUND - 3/4" CONDUIT
60A-3P	3 #8 & 1 #10 GROUND - 3/4" CONDUIT
<b>120/208 &amp; 277/480 VOLT, 3Ø, 4W CIRCUITS</b>	
20A-3P *	4 #12 & 1 #12 GROUND - 3/4" CONDUIT
30A-3P *	4 #10 & 1 #10 GROUND - 3/4" CONDUIT
40A-3P *	4 #8 & 1 #10 GROUND - 3/4" CONDUIT
50A-3P *	4 #8 & 1 #10 GROUND - 3/4" CONDUIT
60A-3P *	4 #8 & 1 #10 GROUND - 1" CONDUIT



### ELECTRICAL POWER SYMBOLS



### ELECTRICAL LIGHTING SYMBOLS



### ELECTRICAL LOW VOLTAGE SYMBOLS



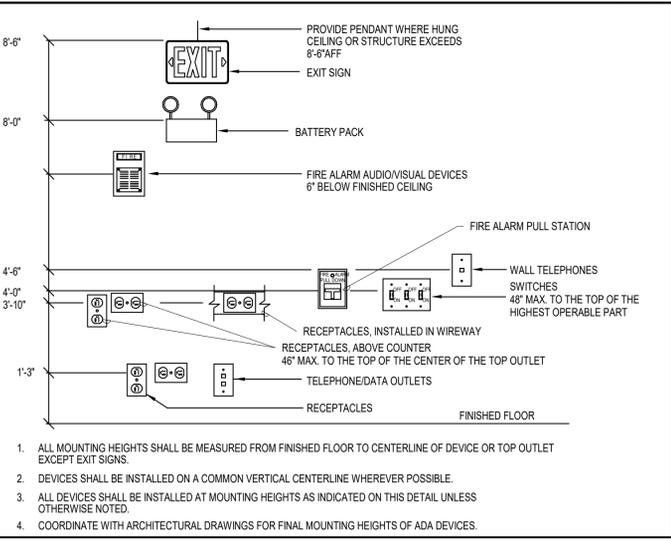
### ELECTRICAL GENERAL SYMBOLS

- PREPARATION**
- VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.
  - VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
  - DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS.
  - BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
- DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK**
- DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS TO BE REMOVED.
  - PROVIDE TEMPORARY OR PERMANENT WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
  - EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. MINIMIZE OUTAGE DURATION.
- GENERAL WORK**
- PERFORM WORK FOR REMOVAL AND DISPOSAL OF EQUIPMENT AND MATERIALS CONTAINING TOXIC SUBSTANCES REGULATED UNDER THE FEDERAL TOXIC SUBSTANCES CONTROL ACT (TSCA) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. APPLICABLE EQUIPMENT AND MATERIALS INCLUDE, BUT ARE NOT LIMITED TO:
    - PCB-CONTAINING ELECTRICAL EQUIPMENT, INCLUDING TRANSFORMERS, CAPACITORS, AND SWITCHES.
    - PCB- AND DEHP-CONTAINING LIGHTING BALLASTS.
    - MERCURY-CONTAINING LAMPS AND TUBES, INCLUDING FLUORESCENT LAMPS, HIGH INTENSITY DISCHARGE (HID), ARC LAMPS, ULTRA-VIOLET, HIGH PRESSURE SODIUM, MERCURY VAPOR, IGNITRON TUBES, NEON, AND INCANDESCENT.
  - REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
  - REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
  - REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
  - DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS.
  - DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
  - REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
  - MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS THAT REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
  - PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES. CIRCUIT DESCRIPTIONS SHALL INDICATE LOAD TYPE AND ROOM NUMBERS SERVED.
  - REBALANCE LOADS IN PANELBOARDS. SUBMIT SUMMARY OF EACH PANELBOARD.
  - AS-BUILT RECORD DRAWINGS SHALL INCLUDE A COPY OF FINAL PANELBOARD DIRECTORIES ON A TITLEBLOCK.
  - ANY BRANCH CIRCUIT AFFECTED BY THE PROJECT SCOPE THAT REQUIRES RELOCATION OR DISCONNECTION SHALL BE RE-ENERGIZED AND EXTENDED AS REQUIRED. REGARDLESS OF LOAD OR DEVICES BEING SERVED BY THE ASSOCIATED BRANCH CIRCUIT, CIRCUIT SHALL BE FIELD TRACED, VERIFIED AND CIRCUIT WITH SOURCE NOTED ON AS-BUILT DEMOLITION PLANS. THESE CIRCUITS SHALL BE INTERCEPTED AT THE SOURCE PANELBOARDS AND EXTENDED (CONDUIT AND WIRE) TO EXISTING PANELBOARDS. REFER TO POWER DRAWINGS FOR SCOPE AND RELATED WORK. UPDATE PANELBOARD DIRECTORIES TO SHOW EXISTING LIGHTS AND NEW ROOM NUMBERS.
  - UPDATE EXISTING PANEL SCHEDULES IN THE SCOPE OF THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS.
    - PERFORM CIRCUIT TRACING TO VERIFY UNKNOWN OR UNIDENTIFIED CIRCUITS.
  - MAINTAIN CIRCUITS FOR RECONNECTION INTO RELOCATED PANELS, INDICATED OR NOT INDICATED SERVING AREAS WITHIN THE RENOVATED SCOPE OR OUTSIDE THE SCOPE.

### GENERAL DEMOLITION NOTES

- NOTE: THIS IS A STANDARD LEGEND AND ABBREVIATION LIST. SOME ITEMS INDICATED MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL OBTAIN AN ENTIRE SET OF CONSTRUCTION DOCUMENTS FOR BID AND CONSTRUCTION SCOPE.
  - COORDINATE ADDITIONAL ELECTRICAL REQUIREMENTS WITH OTHER TRADES.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT AND REQUIRED BOXES AND FITTINGS FOR PATHWAYS FOR ALL TRADES.
  - REFER TO ARCHITECTURAL SERIES PLANS FOR FIRE RATED AND SMOKE RATED WALLS.
  - ALL FLOOR MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH 6" CHAMFERED CONCRETE HOUSEKEEPING PADS. ALL TRANSFORMERS INDICATED ON THE BUILDING INTERIOR AS FLOOR MOUNTED.
  - COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MOTOR EQUIPMENT NAME PLATE DATA.
  - PROVIDE GROUND BONDING STRAPS AROUND ALL PLUMBING VALVES.
  - PROVIDE FIRE RATED PAD AT RECEPTACLES, SWITCHES, AND ALL ELECTRICAL BOXES INSTALLED IN RATED WALLS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY CIRCUIT BREAKERS, CONDUIT, WIRE AND POWER CONNECTIONS TO THE FIRE PROTECTION AND ALARM SYSTEMS. COORDINATE WITH OTHER TRADES.

### ELECTRICAL GENERAL NOTES



### TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

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 CALVERT COUNTY

75 CD  
 28 APRIL 2025

COLIMORE PROJECT NO: 24-024

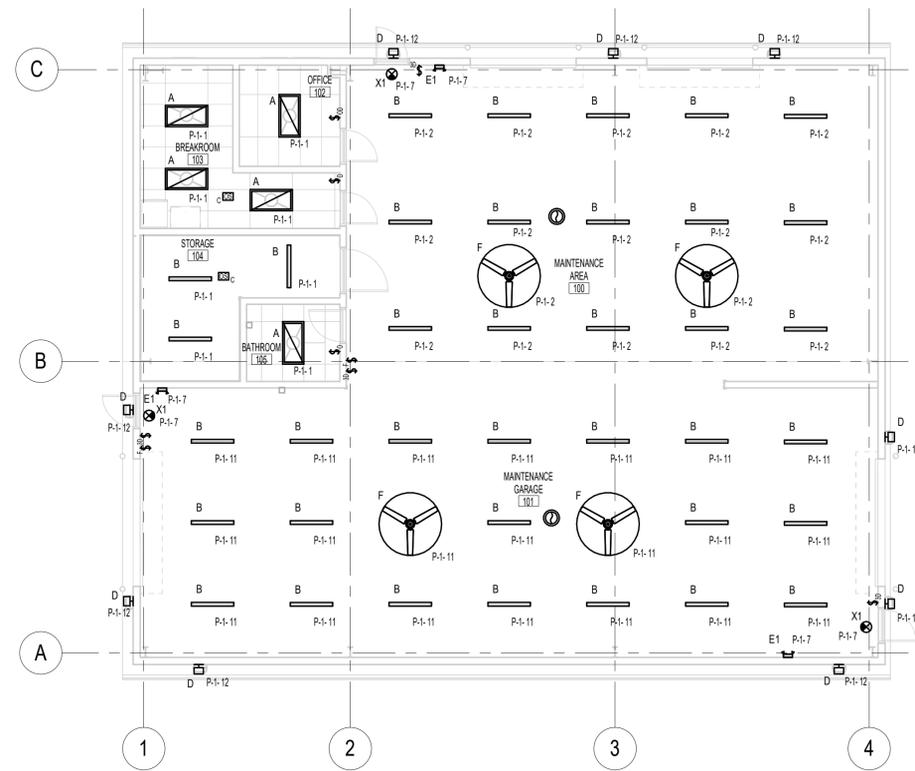


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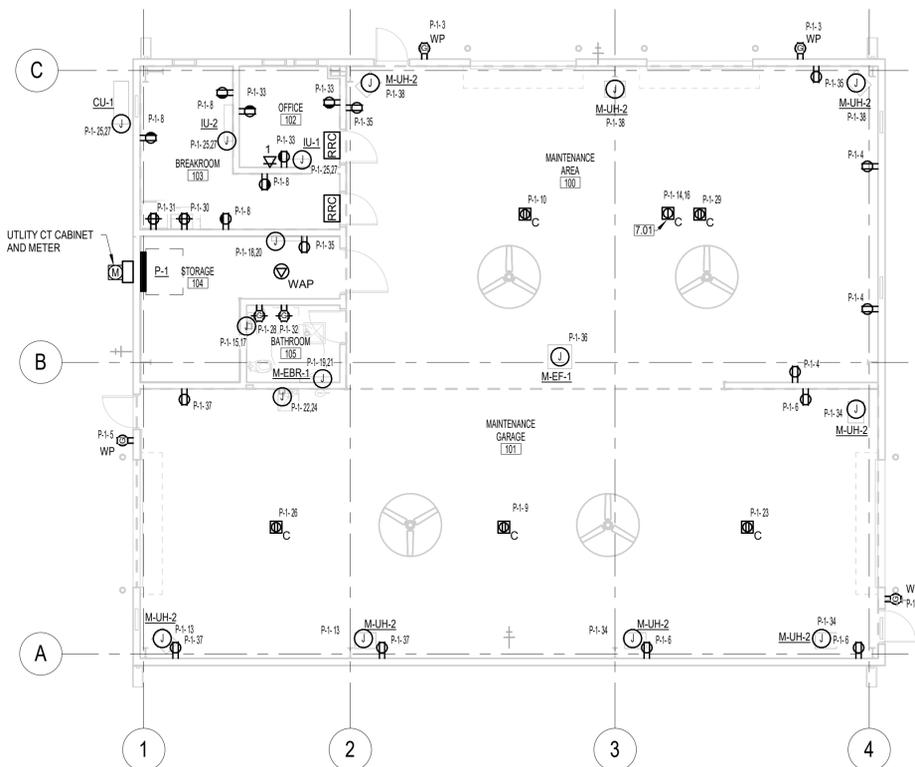
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 CHECKED BY: MB

### ELECTRICAL LEGEND

**E001**  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**1**  
E101  
1/8" = 1'-0"  
FLOOR PLAN - LIGHTING AND FIRE ALARM



**2**  
E101  
1/8" = 1'-0"  
FLOOR PLAN - POWER AND COMMUNICATION

**GENERAL NOTES:**

- COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECTURAL PLANS. GENERALLY WHERE AN ARCHITECTURAL ELEVATION IS AVAILABLE, DEVICE MOUNTING HEIGHTS ARE OMITTED FROM THIS DRAWING.
- ALL TRADES ARE TO BE INDEPENDENTLY SUPPORTED. PER ALL TRADE STANDARDS AND NFPA. NOTHING CAN TOUCH THE SPRINKLER PIPING OR SUPPORT/HANGERS. SYSTEMS CANNOT BE SUPPORTED FROM OTHER PARTS OF A SYSTEM. EACH PIPE SHOULD BE SUPPORTED INDEPENDENTLY OF EACH OTHER.
- ALL RECEPTACLES INSTALLED ON THE BUILDING EXTERIOR SHALL BE GFCI TYPE IN WEATHERPROOF LOCK-IN USE ENCLOSURES.
- CONDUIT SHALL BE INSTALLED CONCEALED WITHIN STUD/DRYWALL WALLS WITH RECESSED OUTLETS UNLESS OTHERWISE NOTED. SURFACE MOUNTED ON MASONRY WALLS.

**DRAWING NOTES:**

- COORDINATE RECEPTACLE LOCATION WITH LIFT INSTALLATION. 30A TWIST LOCK RECEPTACLE TYPE.

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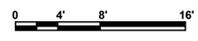
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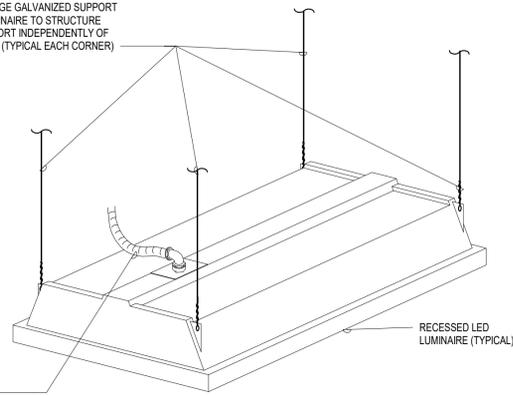
MARK	DATE	DESCRIPTION

DRAWN BY: NFG  
CHECKED BY: MB  
FLOOR PLAN

**E101**  
SHEET \_\_\_\_\_ OF \_\_\_\_\_

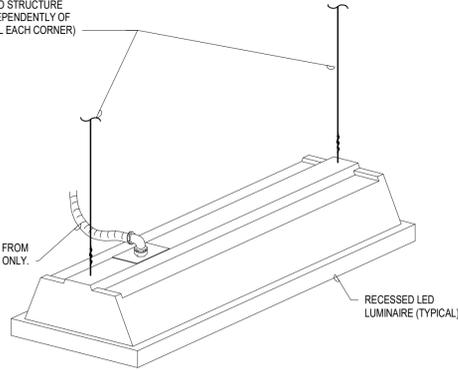


PROVIDE 12 GAUGE GALVANIZED SUPPORT WIRE FROM LUMINAIRE TO STRUCTURE ABOVE TO SUPPORT INDEPENDENTLY OF CEILING SYSTEM (TYPICAL EACH CORNER)



FMC TO JUNCTION BOX AS SPECIFIED. 6' MAX LENGTH FROM JUNCTION BOX TO FIXTURE ONLY.

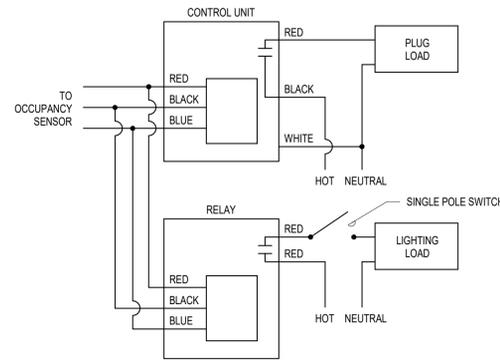
PROVIDE 12 GAUGE GALVANIZED SUPPORT WIRE FROM LUMINAIRE TO STRUCTURE ABOVE TO SUPPORT INDEPENDENTLY OF CEILING SYSTEM (TYPICAL EACH CORNER)



FMC TO JUNCTION BOX AS SPECIFIED. 6' MAX LENGTH FROM JUNCTION BOX TO FIXTURE ONLY.

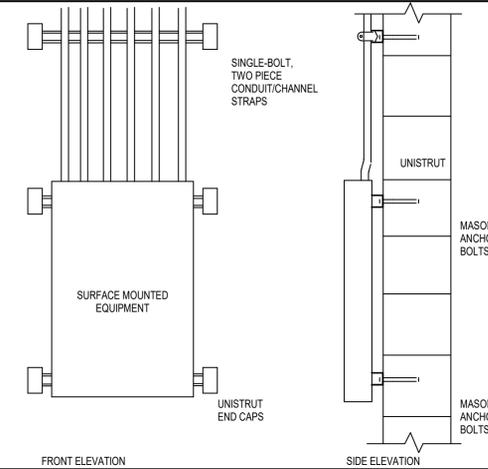
**LUMINAIRE SUPPORT DETAIL**

NOT TO SCALE



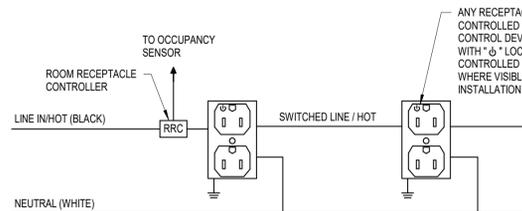
**PLUG/LIGHTING LOAD CONTROLLER DIAGRAM**

NOT TO SCALE



**CABINET MOUNTING DETAIL**

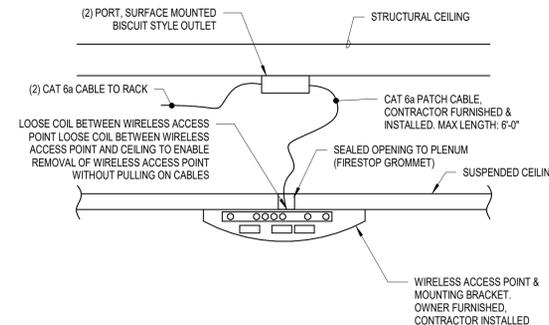
NOT TO SCALE



- CONTROLLED RECEPTACLES SHALL BE CONNECTED TO TIME-OF-DAY OPERATED CONTROL DEVICE THAT TURNS THE RECEPTACLES OFF AT SPECIFIC PROGRAMMED TIMES. THE OCCUPANT SHALL BE ABLE TO MANUALLY OVERRIDE THE CONTROL DEVICE FOR UP TO TWO HOURS.
- ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.

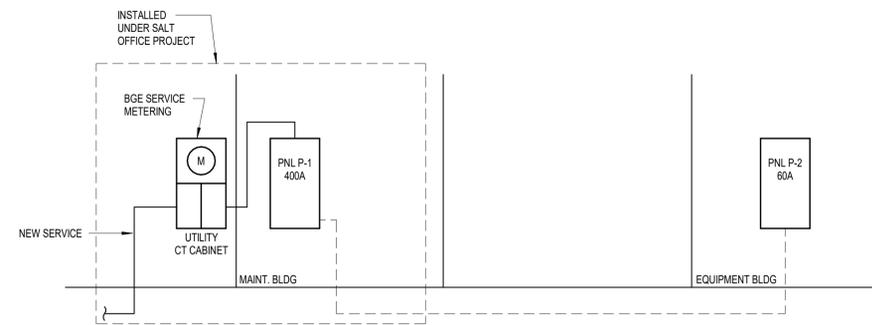
**CONTROLLED RECEPTACLE DIAGRAM**

NOT TO SCALE



**WAP MOUNTING DETAIL**

NOT TO SCALE



**ELECTRICAL RISER DIAGRAM**

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ELECTRICAL DETAILS

**E501**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	LUMENS	WATTAGE	VOLTAGE	EFFICACY	NOTES
A	LITHONIA	2BLT4	RECESSED	LED	4884 lm	30 W		89 lm/W	RECESSED ARCHITECTURAL 2x4 LED FIXTURE, 3500K
B	LITHONIA	ZL1N-L48	PENDANT	LED	2849 lm	29 W		95 lm/W	SUSPENDED LED STRIP FIXTURE
D	LITHONIA	TFX1	SURFACE	LED	2800 lm	30 W		79 lm/W	WET LOCATION RATED EXTERIOR WALL LIGHT
E1	LIGHT ALARMS	IC-2	SURFACE	LED					
F	GLOBAL	293047							INDUSTRIAL DC CEILING FAN
X1	Dual Lite	LES-VARIES-VARIES-S-G-X-N	SURFACE	LED					Coordinate number of faces and arrows with plans. Coordinate text color with building standard.

## PANELBOARD SCHEDULE

**PANEL IDENTIFICATION P-1**

**LOCATION:** STORAGE 104      **VOLTAGE:** 120/208 Wye      **MAINS TYPE:** MCB

**KAIC RATING:**      **PHASE:** 3      **MAINS RATING:** 400 A

**FEED THRU LUGS:**      **WIRE:** 4      **MOUNTING:** Surface

**NOTES:**

ITEM SERVED	P	AMPS	CKT#	A		B		C		CKT#	AMPS	P	ITEM SERVED
LIGHTING Room 102, 103, 104, 105	1	20 A	1	0.30	0.48					2	20 A	1	LIGHTING MAINTENANCE AREA 100
RECEPTACLE	1	20 A	3			0.36	0.54			4	20 A	1	RECEPTACLE MAINTENANCE AREA 100
RECEPTACLE	1	20 A	5					0.36	0.54	6	20 A	1	RECEPTACLE MAINTENANCE GARAGE 101
LIGHTING Room 101, 100	1	20 A	7	0.58	0.72					8	20 A	1	RECEPTACLE BREAKROOM 103
RECEPTACLE MAINTENANCE GARAGE 101	1	20 A	9			0.18	0.18			10	20 A	1	RECEPTACLE MAINTENANCE AREA 100
LIGHTING MAINTENANCE GARAGE 101	1	20 A	11					0.61	0.63	12	20 A	1	LIGHTING - EXTERIOR
HEATING MAINTENANCE GARAGE 101	1	20 A	13	2.00	0.09					14	20 A	2	LIFT MAINTENANCE AREA 100
WATER HEATER BATHROOM 105	2	20 A	15			1.75	0.09			16	20 A	2	HEATING STORAGE 104
			17					1.75	0.38	18	20 A	2	HEATING STORAGE 104
HEATING BATHROOM 105	2	15 A	19	0.38	0.38					20	20 A	2	WATER HEATER MAINTENANCE GARAGE 101
RECEPTACLE MAINTENANCE GARAGE 101	1	20 A	23			0.38	1.75			22	20 A	2	WATER HEATER MAINTENANCE GARAGE 101
CU-1 / IU-1 / IU-2	2	20 A	25	1.13	0.18					26	20 A	1	RECEPTACLE MAINTENANCE GARAGE 101
			27			1.13	0.18			28	20 A	1	RECEPTACLE BATHROOM 105
RECEPTACLE MAINTENANCE AREA 100	1	20 A	29					0.18	0.18	30	20 A	1	RECEPTACLE BREAKROOM 103
RECEPTACLE BREAKROOM 103	1	20 A	31	0.18	0.18					32	20 A	1	HAND DRYER BATHROOM 105
RECEPTACLE OFFICE 102	1	20 A	33			0.54	3.00			34	20 A	1	HEATING MAINTENANCE GARAGE 101
RECEPTACLE Room 100, 104	1	20 A	35					0.54	3.00	36	20 A	1	M-EF-1
RECEPTACLE MAINTENANCE GARAGE 101	1	20 A	37	0.54	3.00					38	20 A	1	HEATING MAINTENANCE AREA 100
			39							40			
			41							42			
			43							44			
			45							46			
			47							48			
			49							50			
			51							52			
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			55							56			
			57							58			
			59							60			
			61							62			
			63							64			
			65							66			
			67							68			
			69							70			
			71							72			
			73							74			
			75							76			
			77							78			
			79		0.69					80			
			81				0.69			82	60 A	3	PANEL P-2
			83					0.69		84			
<b>Load:</b>				11 kVA		10760 VA		10728 VA					
<b>Amps:</b>				90 A		90 A		89 A					
<b>Total Amps:</b>				90 A		90 A		90 A					

HVAC	2250 VA	100.00%	2250 VA
HEATING	9500 VA	100.00%	9500 VA
LIGHTING	1960 VA	100.00%	1960 VA
LIGHTING - EXTERIOR	630 VA	125.00%	788 VA
RECEPTACLE	5580 VA	100.00%	5580 VA
Spare	2070 VA	100.00%	2070 VA
WATER HEATER	7000 VA	100.00%	7000 VA
EXHAUST FAN	3000 VA	100.00%	3000 VA
LIFT	180 VA	100.00%	180 VA
HAND DRYER	180 VA	100.00%	180 VA

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**ELECTRICAL SCHEDULES**

**E601**  
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C

B

A