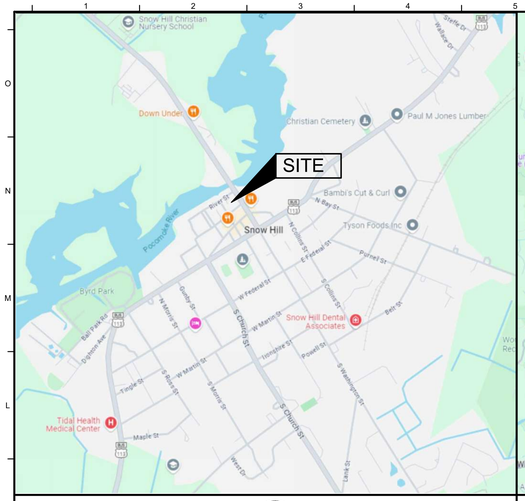

LOCATION MAP

VICINITY MAP

SNOW HILL LIBRARY RENOVATIONS

BID SET

307 N WASHINGTON ST
SNOW HILL, MARYLAND 21863

DBF PROJECT NO. 0085B054.A01

JANUARY 23, 2026

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect, in the laws of the State of Maryland, License No. 11115 Expiration Date: 09/08/2026

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MATERIAL LEGEND

- EXISTING WALL
- NEW WALL
- MASONRY IN ELEVATION
- CONCRETE IN PLAN OR DRYWALL IN SECTION
- CONCRETE
- EARTH
- POROUS FILL
- WOOD (FINISH) IN SECTION
- WOOD (ROUGH) IN SECTION
- BRICK
- CONCRETE MASONRY
- BATT INSULATION
- RIGID INSULATION
- PLYWOOD
- GLAZING

GRAPHIC SYMBOL LEGEND

- PROPERTY LINE
- CENTER LINE
- HIDDEN LINE
- DEMOLITION
- FENCE LINE
- CONSTRUCTION FENCE
- COLUMN LINE
- REVISION: WINDOW, & ROOM SYMBOLS
- LINTEL NUMBER: AND EQUIPMENT NUMBER
- POINT ELEV. EXIST. POINT ELEV. NEW
- CONTOURS EXIST: NEW (NOTED HIGH SIDE)
- LEVEL LINE
- DETAIL SECTION OR EXTERIOR ELEV.
- WALL SECTION CUT
- NORTH ARROW

DRAWING ABBREVIATIONS

SYMBOLS used as abbreviations

∠	angle
℄	centerline
d	penny
⊥	perpendicular
PL	plate
Ø	round

ABBREVIATIONS

AB	anchor bolt
ABV	above
A/C	air conditioning
ACC	access
ACFL	access floor
AD	area drain
ADD	addendum
ADH	adhesive
ADJ	adjacent
ADJT	adjustable
AFF	above finish floor
AGG	aggregate
AL	aluminum
ALT	alternate
ANC	anchor, anchorage
AND	anodized
ANG	angle
AP	access panel
APX	approximate
ARCH	architect (ural)
ASB	asbestos
ASPH	asphalt
ATC	acoustical tile clg
AUTO	automatic
BBD	bulletin board
BD	board
BEL	below
BET	between
BIT	bituminous
BLDG	building
BKHD	bulkhead
BLK	block
BLKG	blocking
BM	beam
BOT	bottom
BP	back plaster (ed)
BPL	bearing plate
BRG	bearing
BRK	brick
BRZ	bronze
BS	both sides
BSMT	basement
BTY	battery
BUR	built up roofing
BVL	beveled
BW	both ways
CAB	cabinet
CB	catch basin
CEM	cement
CER	ceramic
CF	cold-formed
CFL	counterflashing
CFT	cubic feet
CHAM	chamfer
CHBD	chalkboard
CHT	ceiling height
CIPC	cast-in-place-concrete
CIR	circle
CIRC	circumference
CJT	control joint
CK	caulking
CLL	contract limit line
CLG	ceiling
CLR	clear or clearance
CMT	ceramic mosaic tile
CMU	concrete masonry unit
COL	column
COMB	combination
CONC	concrete
CONST	construction
CONT	continuous or continue
CONTR	contract (or)
CORR	corrugated
CPR	copper
CPT	carpet
CR	cold-rolled
CRS	course (s)
CSMT	casement
CT	ceramic tile
CTER	counter
CTR	center
CTSK	countersunk screw
CYD	cubic yard
D	dryer
DA	double acting
DEM	demolish, demolition
DF	drinking fountain
DH	double hung
DIA	diameter
DIAG	diagonal
DL	dead load
DP	damp proofing
DPR	damper
DR	door
DRN	drain
DS	downspout
DT	drain tile
DTL	detail
DWR	drawer
DWG	drawing
EB	expansion bolt
EF	each face
EIFS	exterior insulated finish system
EJT	expansion joint
EL	elevation
ELEV	elevator
EMER	emergency
ENC	enclose
EP	electrical panelboard
EQ	equal
EQP	equipment
EST	estimate
EWC	electric water cooler
EXCA	excavate
EXG	existing
EXH	exhaust
EXP	exposed
EXT	exterior
FA	fire alarm
FAS	fasten, fastener
FB	face brick
FBD	fiberboard
FBO	furnished by others
FD	floor drain
FE	fire extinguisher
FEC	fire extinguisher cabinet
FF	factory finish
FFE	finished floor elevation
FFL	finished floor line
FGL	fiberglass
FIN	finish (ed)
FLCO	floor cleanout
FLG	flashing
FLPL	floor plate
FLR	floor (ing)
FLUR	flourescent
FN	fence
FND	foundation
FOC	face of concrete
FOF	face of finish
FOM	face of masonry
FOS	face of studs
FPL	fireplace
FR	frame (d) (ing)
FRP	fiberglass reinforced plastic
FTG	footing
FUR	furred (ing)
FUT	future
GA	gage, gauge
GB	grab bar
GC	general contract (or)
GD	grade, grading
GL	glass, glazing
GLB	glass block
GYPBD	gypsum drywall
GT	grout
GALV	galvanized
GVL	gravel
HB	hose bib
HBD	hardboard
HC	hollow core
HD	heavy duty
HDPE	high-density polyethelene
HDW	hardware
HDR	header
HM	hollow metal
HOR	horizontal
HP	handicapped
HT	height
HTG	heating
HVAC	heating/ventilation/air conditioning
HWD	hardwood
HWH	hot water heater
ID	inside diameter
INCL	include (d) (ing)
INS	insulate (d) (ion)
INT	interior
INV	invert
JAN	janitor's closet
JST	joist
JT	joint
KIT	kitchen
KO	knockout
KPL	kickplate
L	length
LAD	ladder
LAM	laminate
LAV	lavatory
LB	lag bolt
LBL	label
LH	left hand
LL	live load
LT	light
LTL	lintel
LVP	luxury vinyl plank
LVR	louver
MAS	masonry
MAX	maximum
MBR	member
MC	medicine cabinet
MECH	mechanic (al)
MET	metal
MFD	metal floor decking
MFR	manufacture (er)
MH	manhole
MIN	minimum
MIR	mirror
MISC	miscellaneous
MLD	molding, moulding
MMB	membrane
MO	masonry opening
MOD	modular
MOV	movable
MR	moisture resistant
MRD	metal roof decking
MT	mount (ed) (ing)
MTFR	metal furring
MTHR	metal threshold
MTL	material (s)
MUL	mullion
MWK	millwork
NAT	natural
NIC	not in contract
NOM	nominal
NTS	not to scale
OA	overall
OBS	obscure
OC	on center (s)
OD	outside diameter
OH	overhead
OP	opaque
OPG	opening
OPH	opposite hand
OPP	opposite
OWJ	open-web joist
PAR	parallel
PB	panic bar
PBD	particle board
PC	powder coated finish
PCC	pre-cast concrete
PCF	pounds per cubic foot
PCPL	cement plaster (portland)
PERF	perforate
PERI	perimeter
PEMB	pre-eng metal bldg
PFB	prefabricated
PFN	prefinished
PG	plate glass
PK	parking
PL	property line
PLAM	plastic laminate
PLAS	plaster
PLF	pounds per lineal foot
PLT	plate
PNL	panel
PNT	paint (ed)
PRF	preformed
PRTR	pressure treated wood
PSF	pounds per square foot
PSI	pounds per square inch
PSL	parallel strand lumber
PT	point
PTD	paper towel dispenser
PTN	partition
PTR	paper towel receptor
PV	pave (d) (ing)
PVF	plank vinyl floor
PVC	polyvinyl chloride
PVMT	pavement
PLYWD	plywood
QT	quarry tile
R	riser
RA	return air
RB	rubber base
RBT	rabbet, rebate
RCP	reflected ceiling plan
RD	roof drain
REINF	reinforce (d) (ing)
REF	reference
REFR	refrigerator
REG	register
REM	remove
REQ'D	required
RES	resilient
RET	return
REV	revision (s), revised
RFG	roofing
RFH	roof hatch
RFL	reflect (ed) (ive)
RH	right hand
RL	rail (ing)
RM	room
RO	rough opening
ROW	right of way
R.S.	reverse (side)
RTU	roof top unit
RWC	rain water collector
SC	solid core
SCH	schedule
SCN	screen
SDT	static dissipative tile
SD	storm drain
SEC	section
SG	sheet glass
SH	shelf, shelving
SHO	shore (d) (ing)
SHT	sheet
SHTH	sheathing
SIM	similar
SKL	skylight
SL	sleeve
SNT	sealant
SPC	spacer
SPEC	specification (s)
SPL	special
SPR	single-ply roof(ing)
SQ	square
STA	station
STG	seating
STL	steel
STO	storage
STR	structural
SSK	service sink
SST	stainless steel
SUSP	suspended
SYM	symmetry (ical)
SYN	synthetic
SYS	system
T	tread
TB	towel bar
TC	carpet tile
TEL	telephone
T&G	tongue and groove
TGL	tempered glass
THK	thick (ness)
THR	threshold
TKBD	tackboard
TKS	tackstrip
TOF	top of footing
TOL	tolerance
TOM	top of masonry
TOW	top of wall
TRTD	treated
TPTN	toilet partition
TPD	toilet paper dispenser
TSL	top of slab
TST	top of steel
TR	transom
TRANS	transverse
TV	television
TYP	typical
TZ	terrazzo
UC	undercut
UNF	unfinished
UNO	unless noted otherwise
UR	urinal
VAT	vinyl asbestos tile
VB	vapor barrier
VB	vinyl base
VCT	vinyl composition tile
VERT	vertical
VG	vertical grain
VIN	vinyl
VNR	veneer
VRM	vermiculite
VT	vinyl tile
VTR	vent thru roof
W	washing machine
W/	with
WB	wood base
WC	water closet
WCV	wallcovering
WD	wood
WDW	window
WG	wired glass
WH	wall hung
WHB	wheel bumper
WIN	window
WM	wire mesh
w/o	without
WP	waterproofing
WPT	working point
WS	waterstop
WSCT	wainscot
WTH	wide, width
WWF	welded wire fabric

CODE ANALYSIS

APPLICABLE CODES:

IBC / IEBC 2021
IECC 2021
NFPA 101 Life Safety Code 2024
NFPA 1 Fire Code 2024
2010 ADA Standards for Accessible Design

RENOVATION INFORMATION:

Proposed Project Area = 12,050 SF
Use Group: A-3

CONSTRUCTION TYPE: Type V-B, Not Sprinklered

EXISTING HEIGHT & AREAS:

Allowable Building Height: 2 Stories (55')
Actual Building Height: 2 Story (31')
Allowable Building Area: 18,000 SF
Renovated Building Area: 12,050 SF

FIRE RESISTIVE RATINGS FOR BUILDING ELEMENTS:

Structural Frame:	0hr
Bearing Exterior Walls:	0hr
Bearing Interior walls:	0 hr
Non Bearing Walls	0hr
Floor/Roof Construction:	0hr
Corridors:	0hr

INTERIOR FINISHES:

Exit Passageways: A
Corridors and Exit Access: A
Rooms and Enclosed Spaces: C

FIRE PROTECTION SYSTEMS:

Fire Extinguishers: Required
Fire Alarm: Existing System Will Remain and Be Modified As Needed
Sprinkler System: Per County Fire Marshal's Office (Matt Owens), Due to the limited amount of renovation a sprinkler system is not required for this phase. For the next phase involving HVAC replacement, a sprinkler system will be installed.

OCCUPANCY LOAD:

Assembly Area:	143
Office Area:	11
Storage Area:	3
Reading Area:	46
Stack Area:	35
Total:	240

EGRESS REQUIREMENTS:

Exit Access Travel Distance:
B = 200' Max

Common Path of Travel:
B = 75'-0" Max

Panic Hardware: Required
Exit Signs: Required
Emergency Lights: Required
Dead End: 20' Max
Exits: 2 Required, 5 provided

DRAWINGS INDEX

GENERAL NOTES

1. THESE DRAWINGS ARE PROVIDED FOR THE EXCLUSIVE USE OF WORCESTER COUNTY. OWNER/ARCHITECT SERVICES AGREEMENT IS FOR ARCHITECTURAL/ENGINEERING DRAWINGS REQUIRED FOR PERMIT & APPROVAL ONLY. EXTENSIVE DRAWINGS & SPECIFICATIONS ARE NOT PART OF THE OWNER/ARCHITECT AGREEMENT. COORDINATION & CODE COMPLIANCE IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OTHER CONSULTANTS.
2. IT IS AGREED THAT THE PROFESSIONAL SERVICES OF THE ARCHITECT DO NOT EXTEND TO OR INCLUDE THE REVIEW OR OBSERVATION OF THE CONTRACTOR'S WORK OR PERFORMANCE.
3. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION. ANY VARIATIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION.
4. ANY CHANGE OR FIELD ALTERATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
5. ANY ITEMS NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REASONABLY INCIDENTAL TO AND NECESSARY FOR THE SATISFACTORY COMPLETION OF THE PROJECT IN ACCORDANCE WITH INDUSTRY STANDARDS, ARE INCLUDED WITHIN THE INTENT OF THESE DRAWINGS.
6. BUILDING CODE COMPLIANCE, CONSTRUCTION DETAILING, AND COORDINATION RESULTING FROM THE USE OF THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. NO BOLTS, HOOKS, OR SIMILAR DEVICES SHALL BE USED. INSTALLATION SHALL BE IN ACCORDANCE WITH IBC BUILDING CODE, LATEST EDITION.
8. FIRE SEPARATION WALLS ARE TO BE AS INDICATED ON THE DRAWINGS. BUILD TIGHT TO FLOOR/CEILING STRUCTURE TO PROVIDE A CONTINUOUS RATED ASSEMBLY BETWEEN ROOMS. ANY PENETRATIONS SHALL BE AS ALLOWED BY THE U.L. ASSEMBLY AND SHALL BE PROPERLY FIRESTOPPED WITH A MATERIAL WHICH WILL MAINTAIN THE RATED ASSEMBLY.
9. CASEWORK AND COUNTER DESIGN/DETAILING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OTHER CONSULTANTS.

SNOW HILL LIBRARY RENOVATIONS
BID SET
307 NORTH WASHINGTON STREET
SNOW HILL, MARYLAND 21863

DATE	COMMENTS

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: EHC
Proj.No.: 0085B054.A01
BID SET

TITLE SHEET

Dwg.No.: G-001

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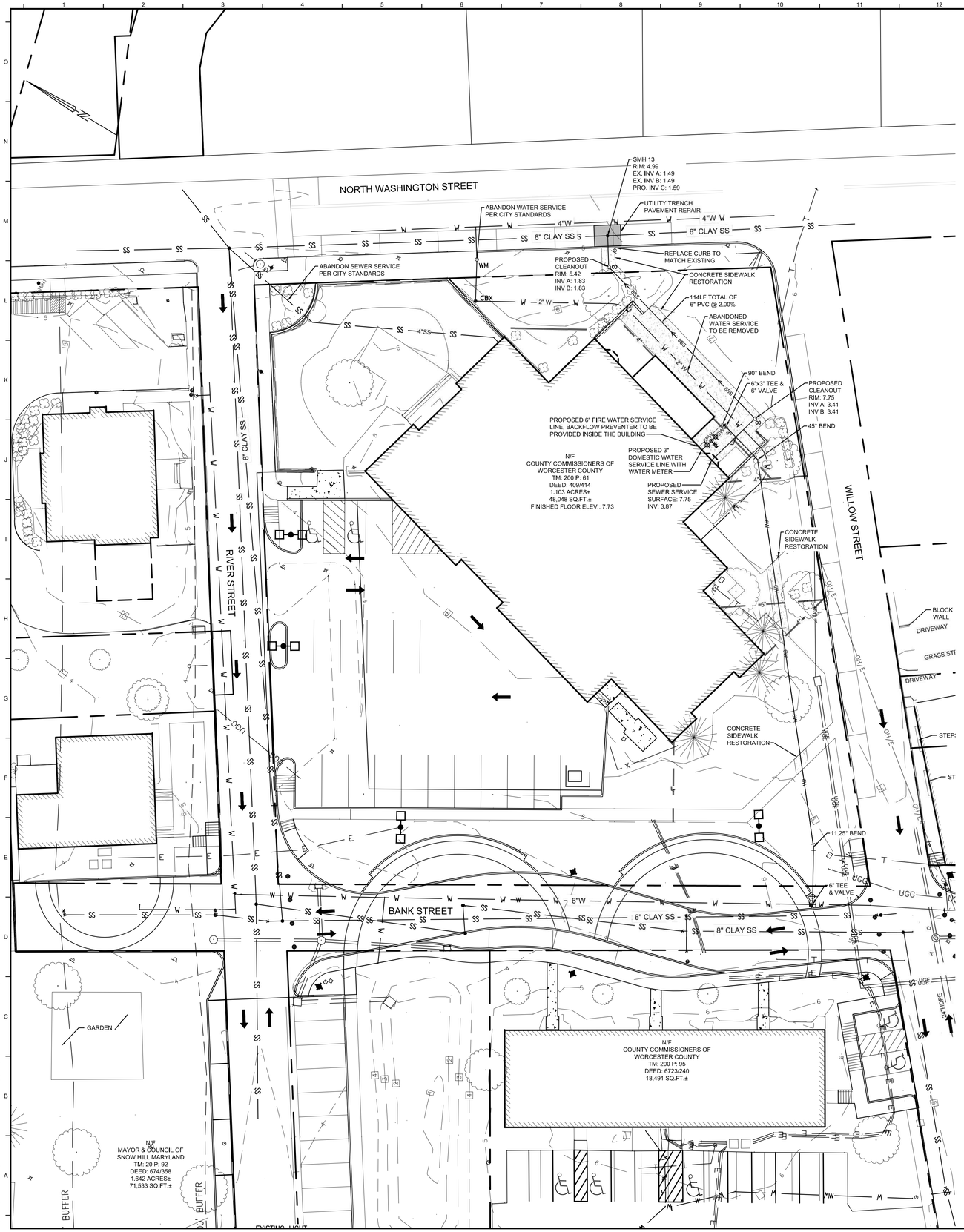
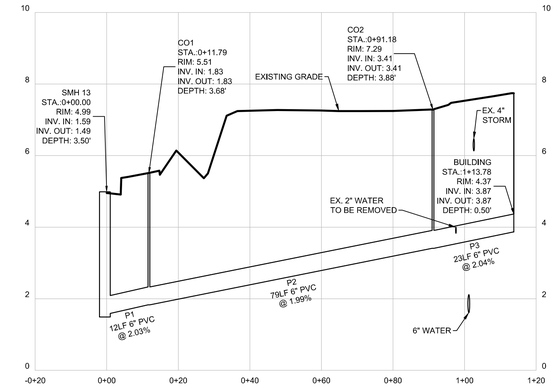
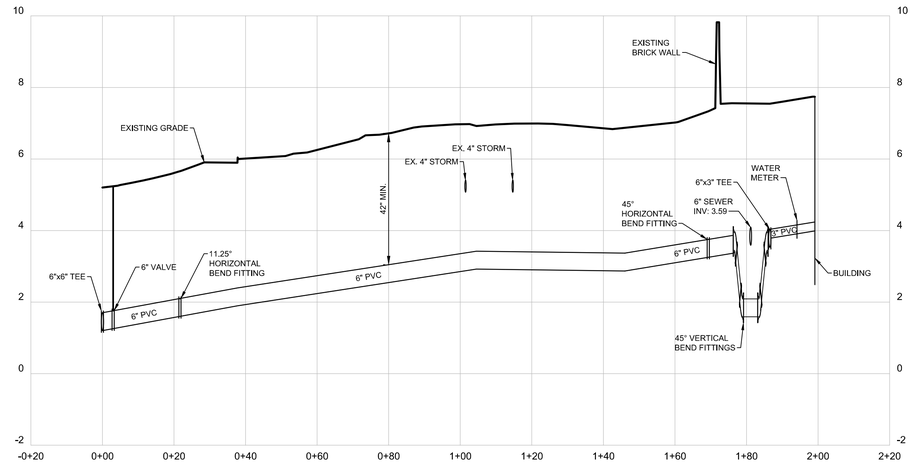




SEWER SERVICE PROFILE

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



WATER SERVICE PROFILE

SCALE: 1"=20' HORIZ.
1"= 2' VERT.

0 20' 40' 60'

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SNOW HILL LIBRARY RENOVATIONS

BID SET

307 NORTH WASHINGTON STREET
SNOW HILL, MARYLAND 21863

DATE	COMMENTS

Date: JANUARY 23, 2026
Scale: 1" = 20'
Dwn.By: ADM
Proj.No.: 0085B054.A01

UTILITY PLAN

Dwg.No.: C401

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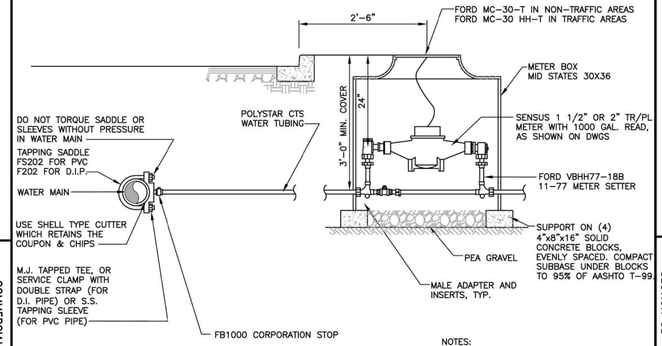
TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3B

COMMERCIAL WATER METER AND SERVICE CONNECTION (NO SCALE)

DRAWING 2



NOTES:

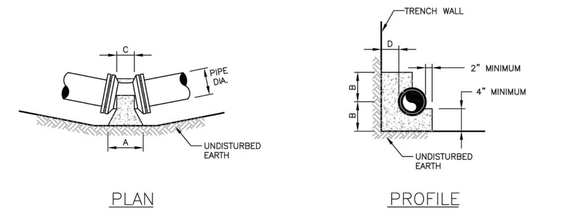
1. WRAP ALL THREADS WITH TEFLON TAPE.
2. DO NOT INSTALL METERS IN DRIVEWAY AREAS.
3. CONTRACTOR TO PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS, REQUIRED FOR WATER SERVICE INSTALLATION AND ENSURE COMPATIBILITY OF THE SAME.

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3B

HORIZONTAL BEND DETAIL (NO SCALE)

DRAWING 13



PLAN

PROFILE

DIMENSION SCHEDULE														
BEND	11¼°						22½°							
PIPE DIA.	4"	6"	8"	10"	12"	16"	18"	4"	6"	8"	10"	12"	16"	18"	24"
A	6"	6"	6"	10"	1'-0"	1'-4"	2'-0"	9"	9"	1'-0"	1'-6"	1'-9"	2'-3"	2'-3"	3'-0"
B	7"	7"	8"	9"	10"	1'-0"	1'-6"	7"	7"	8"	9"	10"	1'-0"	1'-0"	1'-6"
C	4"	4"	6"	6"	10"	1'-0"	1'-6"	4"	4"	6"	8"	10"	1'-0"	1'-0"	1'-6"
D	7"	7"	7"	8"	8"	9"	1'-0"	8"	8"	9"	10"	11"	1'-2"	1'-2"	1'-8"
BEND	45°							90°							
PIPE DIA.	4"	6"	8"	10"	12"	16"	18"	4"	6"	8"	10"	12"	16"	18"	24"
A	1'-3"	1'-3"	1'-8"	2'-1"	2'-6"	3'-4"	4'-0"	2'-0"	2'-0"	2'-6"	3'-0"	3'-6"	5'-0"	5'-0"	5'-6"
B	7"	7"	8"	9"	1'-1"	1'-3"	2'-0"	6"	6"	9"	1'-0"	1'-3"	1'-6"	1'-6"	2'-0"
C	4"	4"	6"	8"	10"	1'-0"	1'-6"	4"	4"	6"	8"	10"	1'-0"	1'-0"	1'-6"
D	8"	8"	9"	10"	11"	1'-2"	1'-4"	1'-5"	1'-5"	1'-7"	1'-8"	1'-9"	1'-10"	1'-10"	2'-4"

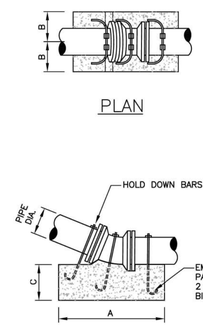
* USE OF BAGGED CONCRETE PROHIBITED.

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3B

VERTICAL UPWARD BEND DETAIL (NO SCALE)

DRAWING 14



PLAN

PROFILE

DIMENSION SCHEDULE							
BEND	PIPE DIAMETER						
		4"	6"	8"	10"	12"	16"	18"	24"
11¼°	A	1'-6"	1'-6"	1'-6"	2'-5"	3'-0"	3'-9"	4'-0"
	B	1'-3"	1'-3"	1'-9"	1'-9"	2'-0"	2'-4"	2'-6"	3'-0"
	C	2'-0"	2'-0"	2'-6"	2'-9"	3'-0"	3'-6"	3'-9"	4'-0"
22½°	A	2'-0"	2'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"
	B	1'-9"	1'-9"	2'-3"	2'-6"	2'-6"	3'-0"	3'-2"	3'-6"
	C	2'-6"	2'-6"	2'-8"	3'-10"	4'-0"	5'-6"	5'-8"	6'-0"
45°	A	2'-6"	2'-6"	3'-0"	4'-0"	4'-6"	5'-2"	5'-6"	5'-8"
	B	2'-6"	2'-6"	2'-9"	3'-0"	3'-6"	3'-9"	3'-9"	5'-0"
	C	3'-0"	3'-0"	4'-0"	4'-6"	4'-9"	5'-0"	5'-4"	5'-8"

* USE OF BAGGED CONCRETE PROHIBITED.

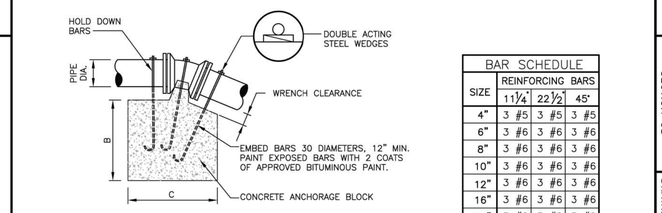
BAR SCHEDULE			
SIZE	REINFORCING BARS		
	11¼°	22½°	45°
4"	3 #5	3 #5	3 #5
6"	3 #6	3 #6	3 #6
8"	3 #6	3 #6	3 #6
10"	3 #6	3 #6	3 #6
12"	3 #6	3 #6	3 #6
16"	3 #6	3 #6	3 #6
18"	3 #8	3 #8	3 #8
24"	3 #8	3 #8	3 #8

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3B

VERTICAL DOWNWARD BEND DETAIL (NO SCALE)

DRAWING 15



PLAN

PROFILE

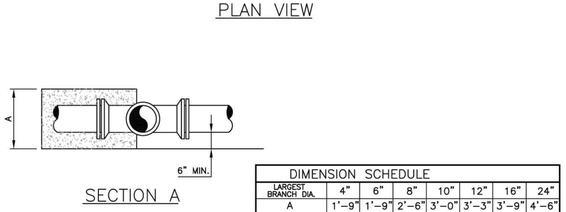
BAR SCHEDULE			
SIZE	REINFORCING BARS		
	11¼°	22½°	45°
4"	3 #5	3 #5	3 #5
6"	3 #6	3 #6	3 #6
8"	3 #6	3 #6	3 #6
10"	3 #6	3 #6	3 #6
12"	3 #6	3 #6	3 #6
16"	3 #6	3 #6	3 #6
18"	3 #8	3 #8	3 #8
24"	3 #8	3 #8	3 #8

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3B

CROSS DETAIL (NO SCALE)

DRAWING 16



PLAN VIEW

SECTION A

DIMENSION SCHEDULE							
LARGEST BRANCH DIA.	4"	6"	8"	10"	12"	16"	24"
A	1'-9"	1'-9"	2'-6"	3'-0"	3'-3"	3'-9"	4'-6"
B	1'-2"	1'-2"	1'-4"	2'-0"	2'-2"	2'-6"	3'-6"
C	2'-6" MIN. TO UNDISTURBED SOIL.						

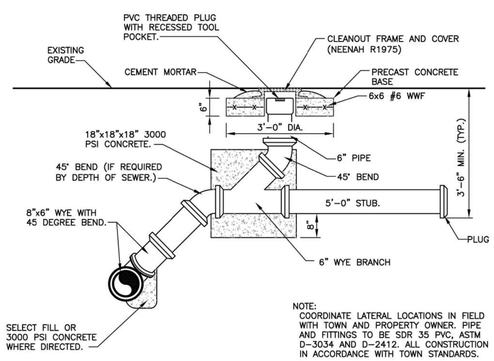
* USE OF BAGGED CONCRETE IS PROHIBITED.

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3C

BUILDING LATERAL CLEANOUT DETAIL (NO SCALE)

DRAWING 24

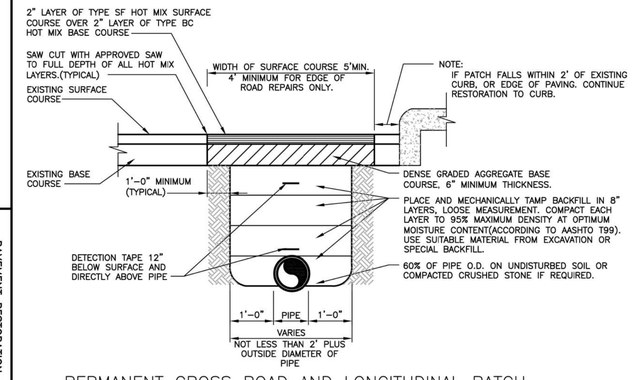


TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3F

PAVEMENT RESTORATION DETAIL #1 FOR TOWN STREETS (NO SCALE)

DRAWING 32



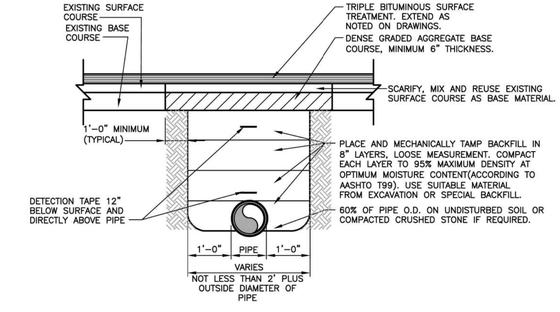
PERMANENT CROSS ROAD AND LONGITUDINAL PATCH
(HOT MIX OVER CRUSHER RUN TYPE BASE COURSE.)

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3F

PAVEMENT RESTORATION DETAIL #2 FOR TOWN STREETS (NO SCALE)

DRAWING 33



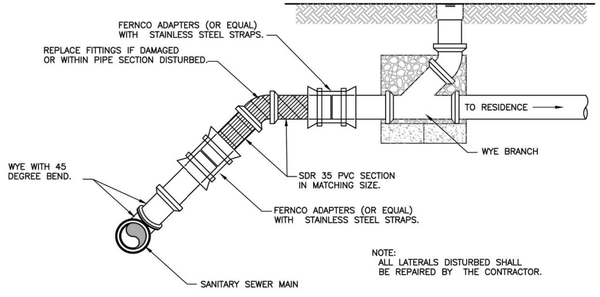
PERMANENT CROSS ROAD AND LONGITUDINAL PATCH
(BITUMINOUS SURFACE TREATMENT OVER CRUSHER RUN BASE COURSE)

TOWN OF SNOW HILL
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION STANDARDS

SECTION 3C

SEWER LATERAL RESTORATION (NO SCALE)

DRAWING 25



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SNOW HILL LIBRARY RENOVATIONS

BID SET

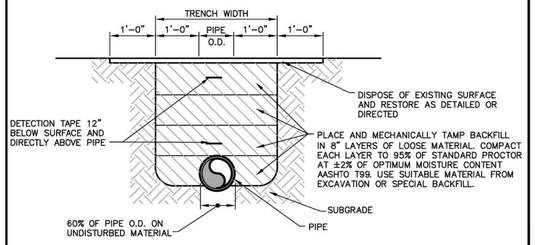
307 NORTH WASHINGTON STREET
SNOW HILL, MARYLAND 21863

DATE	COMMENTS

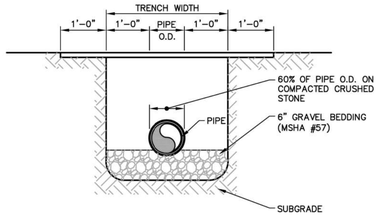
Date: JANUARY 23, 2026
Scale: AS SHOWN
Dwn.By: ADM
Proj.No.: 0085B054.A01

UTILITY DETAILS

Dwg.No.: C402

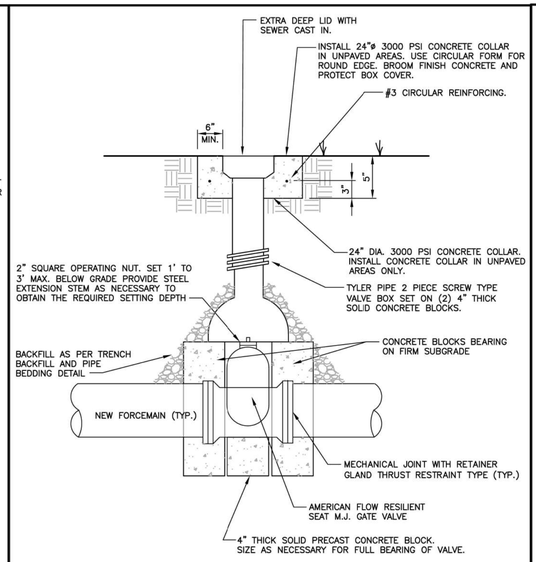


TRENCH BACKFILL

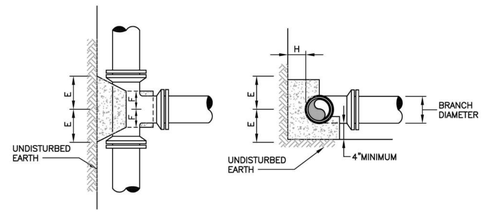


CRUSHED STONE BEDDING

TOWN OF SNOW HILL DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS	TRENCH BACKFILL AND PIPE BEDDING (NO SCALE)	
	SECTION 3A	DRAWING 1



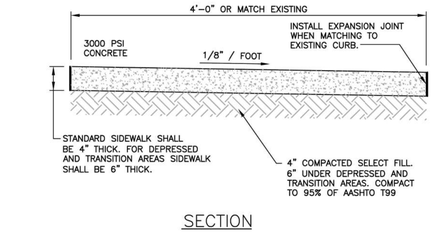
TOWN OF SNOW HILL DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS	GATE VALVE DETAIL (NO SCALE)	
	SECTION 3B	DRAWING 8



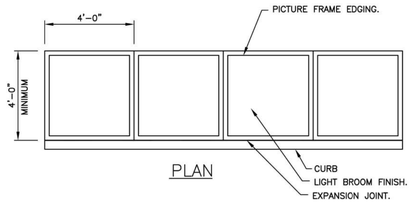
DIMENSION SCHEDULE								
BRANCH DIA.	4"	6"	8"	10"	12"	16"	18"	24"
E	8"	8"	10"	1'-0"	1'-3"	1'-8"	2'-0"	2'-6"
F	6"	6"	8"	8"	8"	10"	1'-0"	1'-2"
G	7"	7"	9"	1'-0"	1'-2"	1'-6"	2'-0"	2'-6"
H	8"	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-6"

* USE OF BAGGED CONCRETE PROHIBITED.

TOWN OF SNOW HILL DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS	TEE AND WYE DETAIL (NO SCALE)	
	SECTION 3B	DRAWING 12



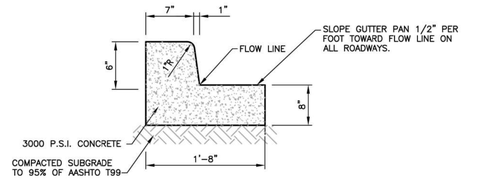
SECTION



PLAN

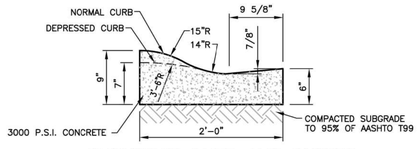
NOTE:
CONTROL JOINTS SPACING TO MATCH WIDTH OF SIDEWALK. EXPANSION JOINT TO BE 20' O.C.

TOWN OF SNOW HILL DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS	SIDEWALK DETAIL (NO SCALE)	
	SECTION 3E	DRAWING 28



STANDARD CURB AND GUTTER

NOTE:
SUBURBAN CURB SHALL BE USED ONLY IN AREAS WHERE IT IS CURRENTLY IN PLACE.



SUBURBAN CURB AND GUTTER

NOTE:
WHEN ADJACENT TO CONCRETE PAVEMENT, INSTALL APPROVED EXPANSION JOINT.

TOWN OF SNOW HILL DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS	CONCRETE CURB AND GUTTER DETAIL (NO SCALE)	
	SECTION 3E	DRAWING 27

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SNOW HILL LIBRARY RENOVATIONS

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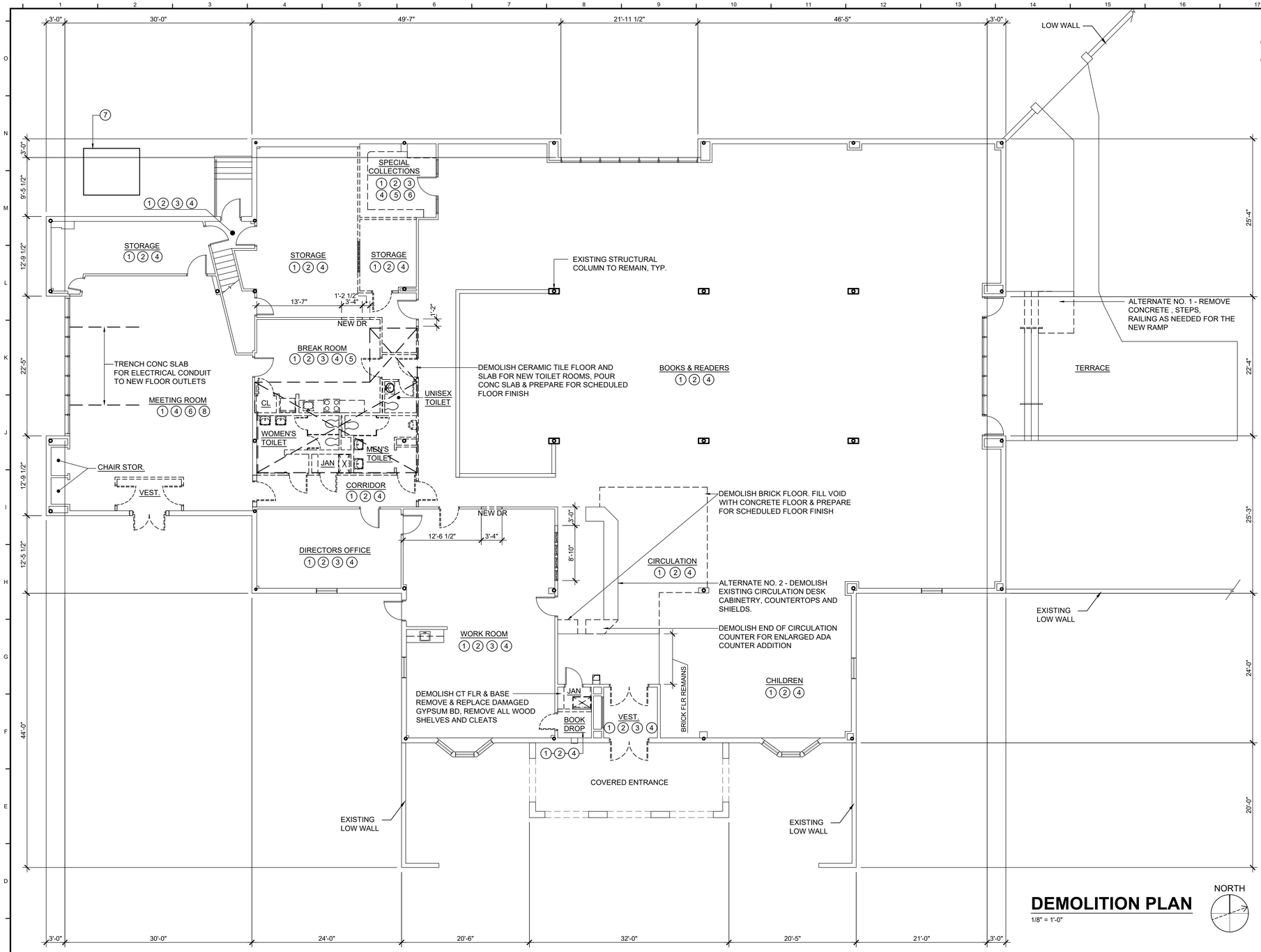
Proj.No.: 0085B054.A01

UTILITY DETAILS

Dwg.No.: **C403**



DEMOLITION PLAN

1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES:

1. REMOVE LOCKSETS FROM EXISTING DOORS TO REMAIN.
2. EXISTING DOORS REMOVED TO BE SALVAGED AND REPURPOSED WHERE POSSIBLE.

DEMOLITION NOTES:

1. REMOVE FLOOR FINISH & REMAINING ADHESIVES
2. REMOVE WOOD BASE
3. REMOVE WOOD CROWN MOLDING
4. REMOVE CEILING TILE & SUSPENSION GRID
5. DEMOLISH BUILT-IN CABINETS OR SHELVING
6. REMOVE PICTURE MOLDING
7. EXISTING CONC PAD FOR CHILLER TO REMAIN.
8. WITH REGARD TO SEQUENCE OF WORK:

THE MEETING ROOM AREA WILL BE USED FOR CLIMATE- CONTROLLED STORAGE WHILE THE REMAINDER OF THE BUILDING IS UNDER CONSTRUCTION.

WORK IN THE MEETING ROOM WILL BEGIN AFTER THE RENOVATION IS SUBSTANTIALLY COMPLETE IN THE ADJACENT AREA AND STORED MATERIALS ARE MOVED BACK INTO THE RENOVATED SPACE.

LEGEND:

- DOOR TO BE REMOVED
- EXG DOOR TO REMAIN
- WALL TO BE REMOVED
- EXG WALL TO REMAIN
- DEMO WINDOW AND WINDOW TRIM
- DEMO GYPSUM BOARD

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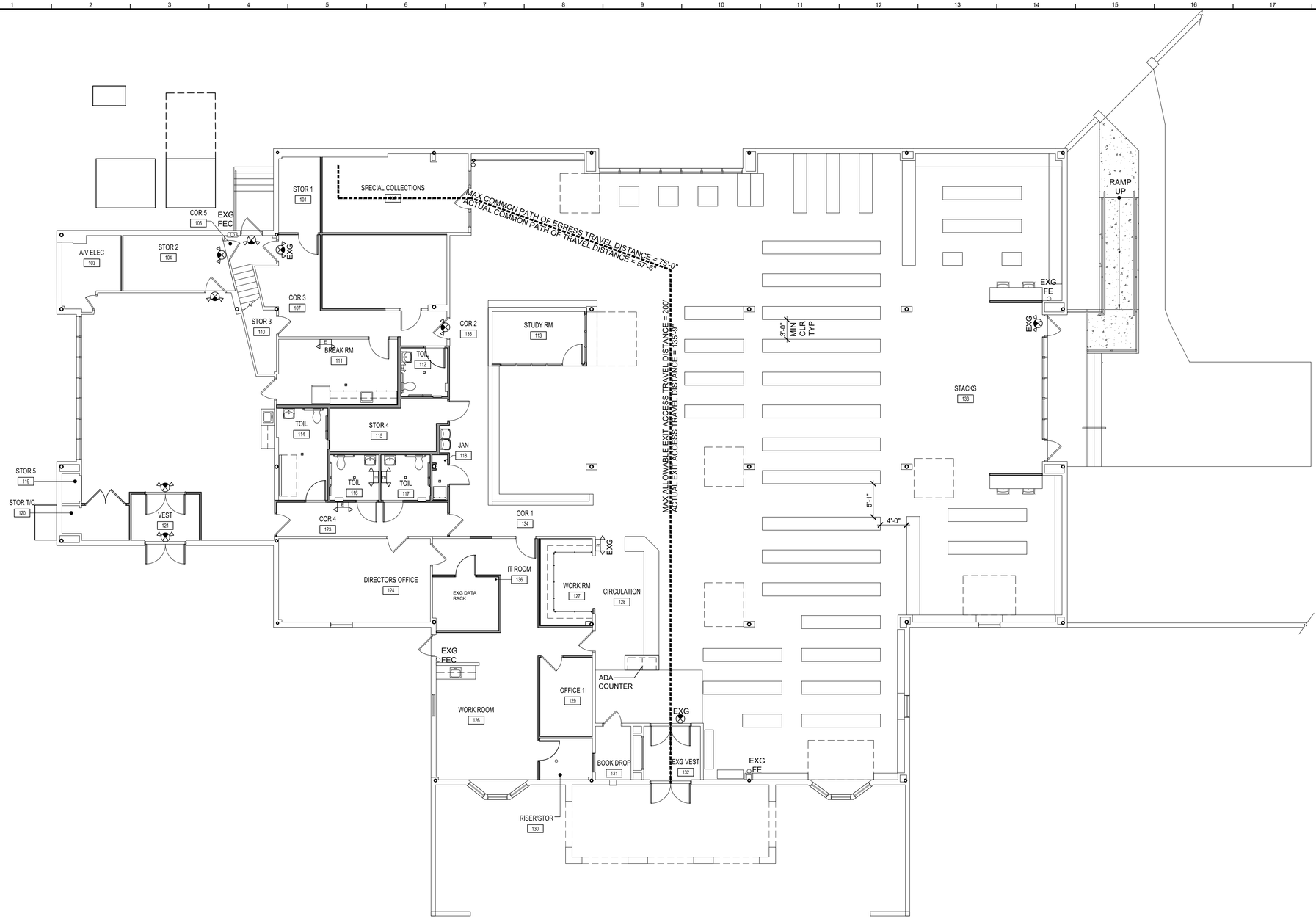
Proj.No.: 0085B054.A01

DEMOLITION PLAN

Dwg.No.: AD101

R:\0085\0085B054\A01 Snow Hill Library\4-Cd\Drawings\A-101_12-1-25.dwg Jan 23, 2026 - 11:29am CYLE



LIFE SAFETY PLAN

1/8" = 1'-0"

NORTH

LIFE SAFETY LEGEND

- MAXIMUM PATH OF EGRESS
- EXIT LIGHT
- EXIT SIGN W/ EMERGENCY LIGHT
- EMERGENCY LIGHT
- FEC — FIRE EXTINGUISHER
- EXG FE — WALL MOUNTED FIRE EXTINGUISHER (NO CABINET)

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LIFE SAFETY PLAN

Dwg.No.: LS101

SEE MEP DWGS FOR NEW PRECAST EQUIPMENT PAD FOR HEAT PUMP (HPO-1) & TRANSFORMER

EXISTING CONC PAD FOR CHILLER TO REMAIN

SEE MEP DWGS FOR NEW PRECAST EQUIPMENT PAD FOR HEAT PUMP (HPO-2)

STOR 1 101 · SPECIAL COLLECTIONS 102 · COR 5 106 · A/V ELEC 103 · STOR 2 104 · COR 3 107 · STOR 3 110 · BREAK RM 111 · TOIL 112 · COR 2 135 · STOR 4 115 · JAN 118 · TOIL 116 · TOIL 117 · COR 4 123 · COR 1 134 · STOR 5 119 · STOR T/C 120 · VEST 121 · DIRECTORS OFFICE 124 · EXG DATA RACK · IT ROOM 136 · WORK RM 127 · CIRCULATION 125 · WORK ROOM 126 · OFFICE 1 129 · BOOK DROP 131 · EXG VEST 132 · SEATING · DISPLAY AREA · SHELF · DESK AREA · PERIODICALS · LOCAL HISTORY · STUDY RM 113 · COMPUTER AREA · COFFEE COUNTER · ADA COUNTER · EXISTING BRICK FLOOR AREA TO REMAIN · EXISTING BOOK DROP · SPRINKLER RISER ROUGHED-IN AND CAPPED · RISER/STOR 130 · COVERED ENTRANCE · EXISTING LOW WALL · LOW WALL · RAMP UP · FURNITURE BY OWNER · 42" WALL W/ SOLID SURFACE CAP · 8'-0" · 3'-0" MIN CLR TYP · CRAFT AREA · NATURE AREA · STACKS 133 · TERRACE · READING AREA · BENCH · M7-1 A402 · M7-2 A402 · M7-3 A402

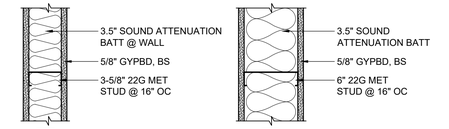
FLOOR PLAN

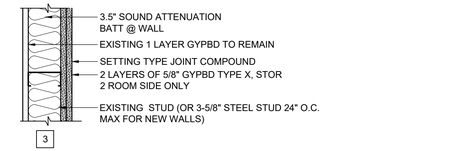
1/8" = 1'-0"

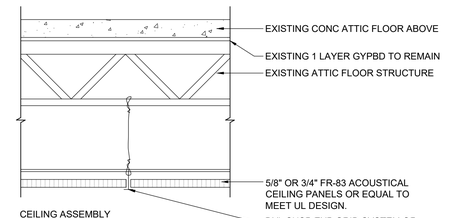
NORTH

WALL TYPES & RATED ASSEMBLIES

1 1/2" = 1'-0"







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SNOW HILL LIBRARY RENOVATIONS

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DATE	COMMENTS

Date: JANUARY 23, 2026
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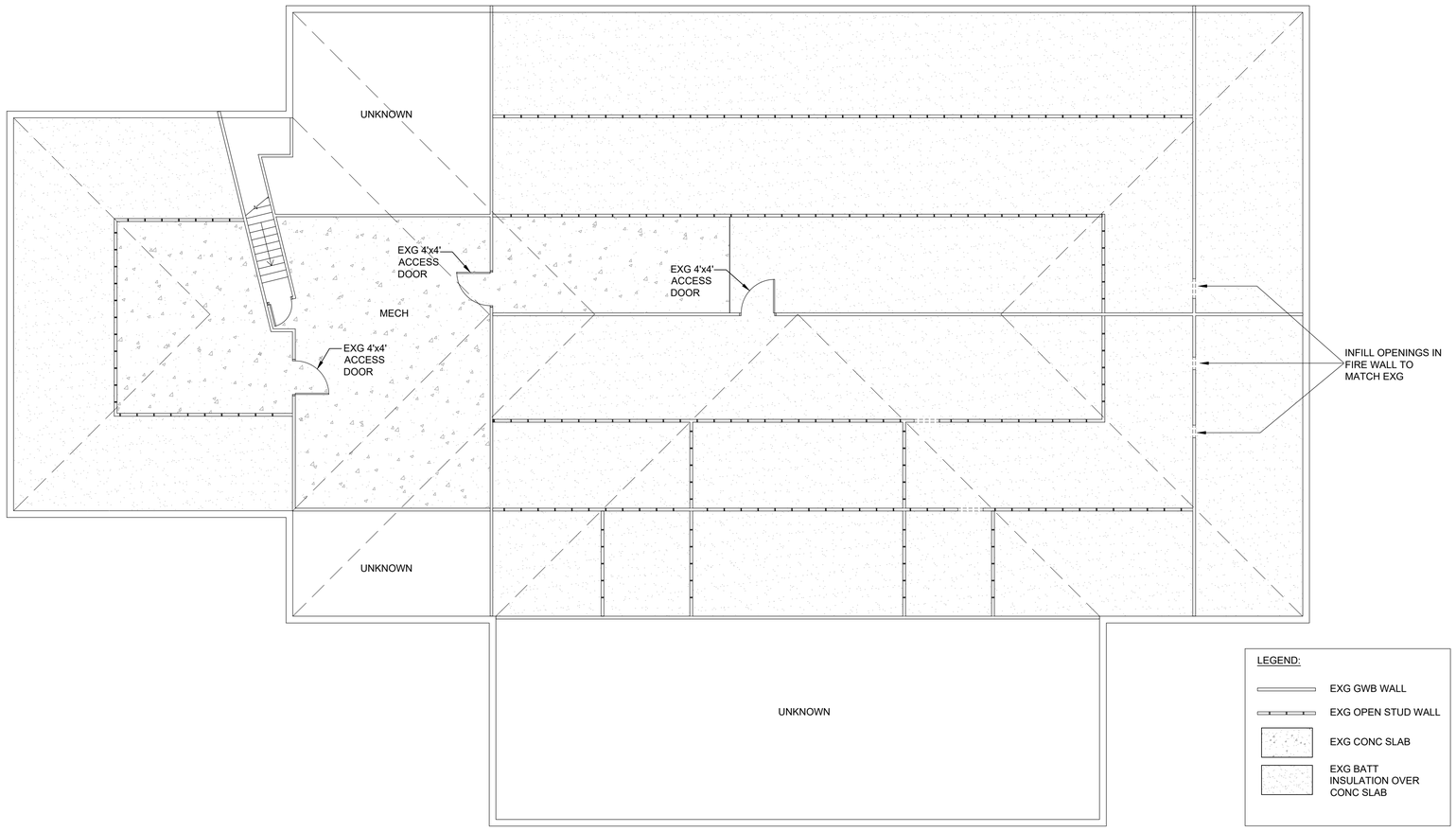
Proj.No.: 0085B054.A01

FLOOR PLAN

Dwg.No.: A101



LEGEND:

- EXG GWB WALL
- EXG OPEN STUD WALL
- EXG CONC SLAB
- EXG BATT INSULATION OVER CONC SLAB

ATTIC FLOOR PLAN

1/8" = 1'-0"

NORTH

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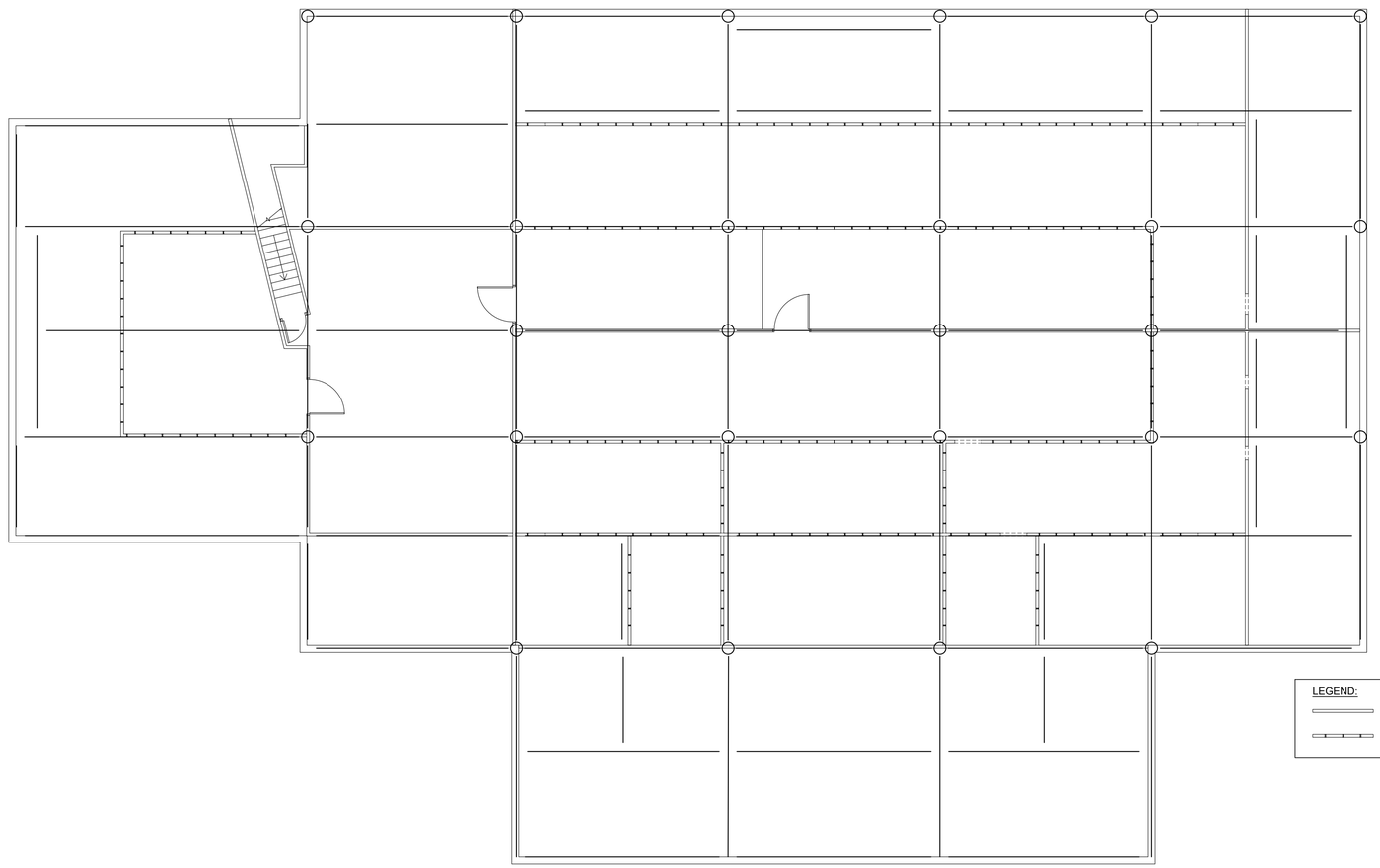
ATTIC FLOOR PLAN

Dwg.No.: A102



EXISTING ATTIC FRAMING PLAN

1/8" = 1'-0"

NORTH

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EXISTING ATTIC FRAMING PLAN

Dwg.No.: **A103**

LEGEND:

- GYPBD CEILING
- 2'x2' ACT GRID
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- ELECTRONIC RADIANT HEAT PANEL (ERHP)
- 2'x2' RECESSED LIGHT FIXTURE
- 2'x4' RECESSED LIGHT FIXTURE
- DOWNLIGHT LIGHTING FIXTURE
- PENDANT-MOUNT LIGHTING FIXTURE

REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

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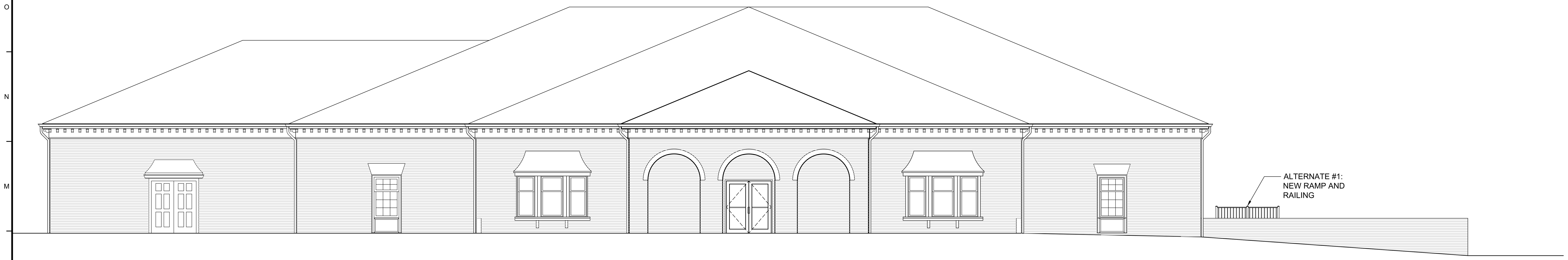
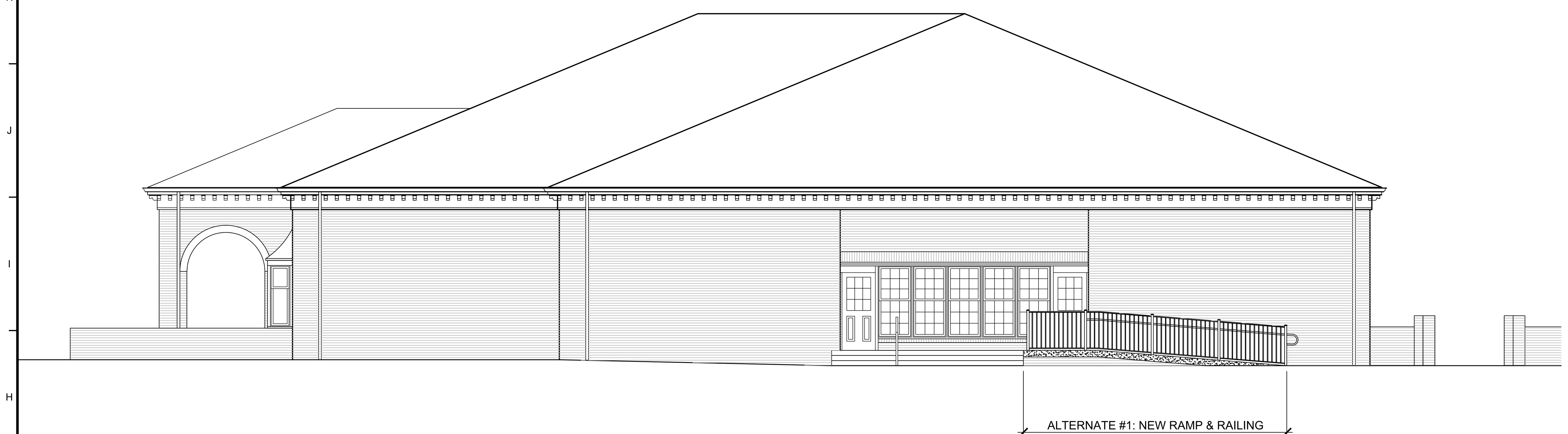
REFLECTED CEILING PLAN

Dwg.No.: A104



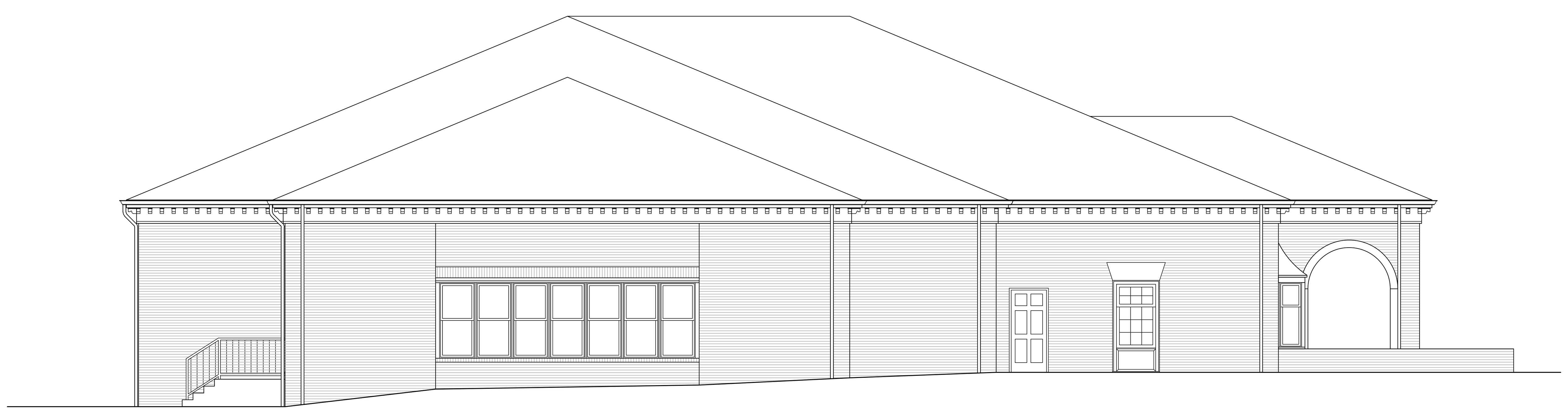
L2 SOUTHEAST ELEVATION

1/8" = 1'-0"



H2 NORTHEAST ELEVATION

1/8" = 1'-0"



D2 NORTHWEST ELEVATION

1/8" = 1'-0"

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SNOW HILL LIBRARY RENOVATIONS

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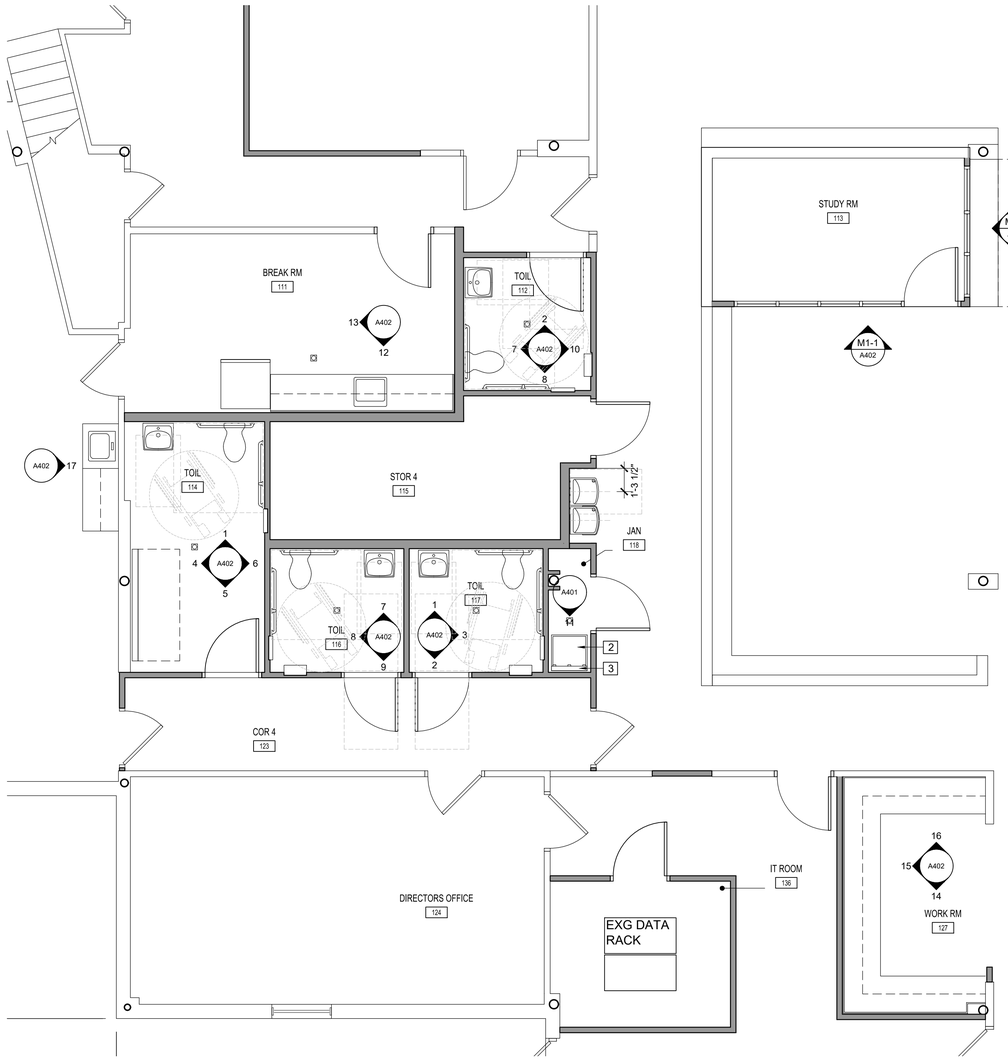
Dwn.By:	EHC
Proj.No.:	0085B054.A01

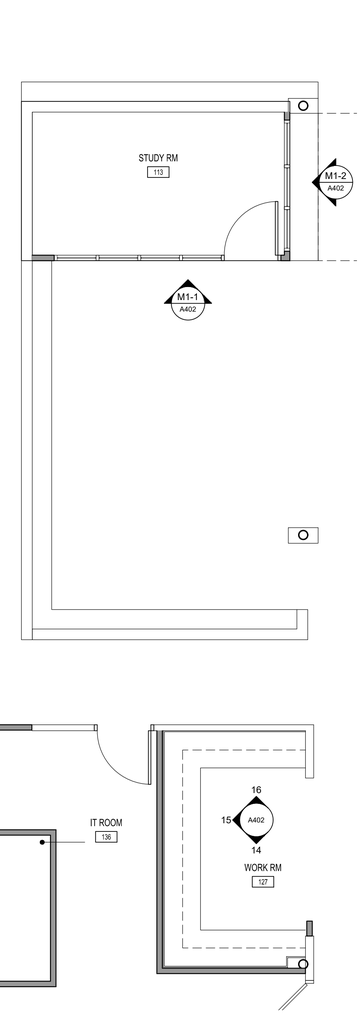
BUILDING ELEVATIONS

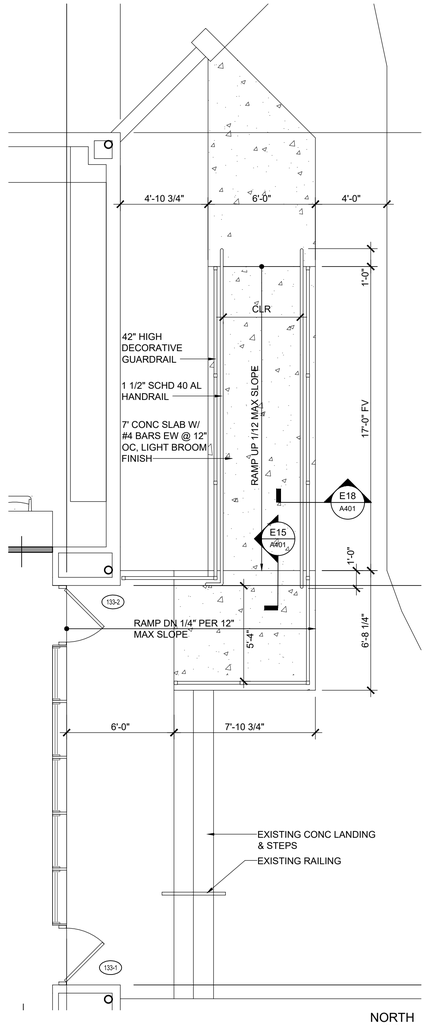
Dwg.No.: **A201**



E1 ENLARGED PARTIAL FLOOR PLAN

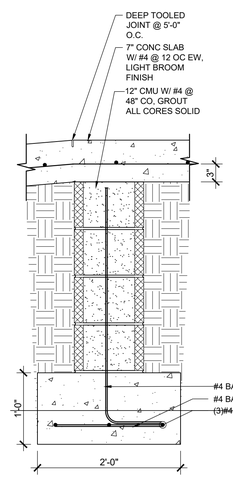
1/4" = 1'-0"





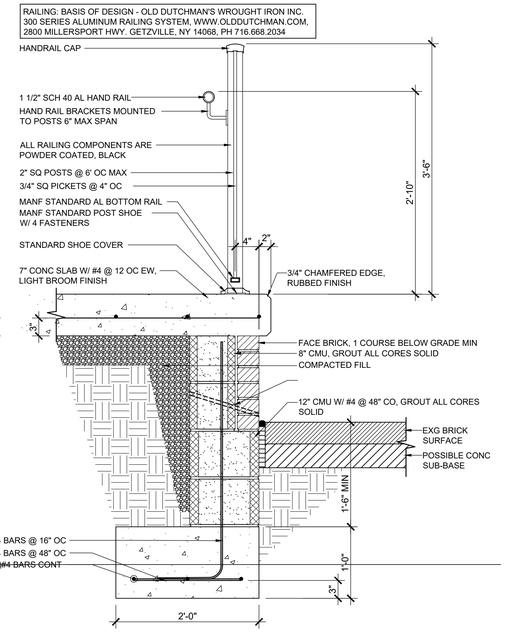
E11 ALT #1 ADA RAMP PLAN

1/8" = 1'-0"



E15 ALT #1 RAMP SEC 1

1" = 1'-0"



E18 ALT #1 RAMP SEC 2

1" = 1'-0"

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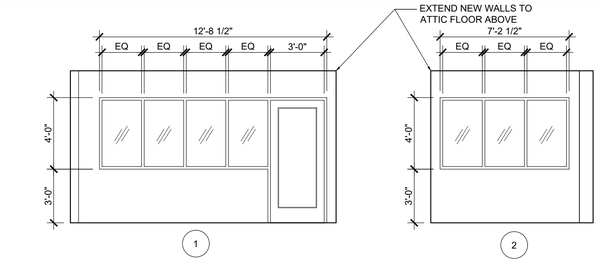
ENLARGED FLOOR PLAN & ALT #1 RAMP PLAN & SECTIONS

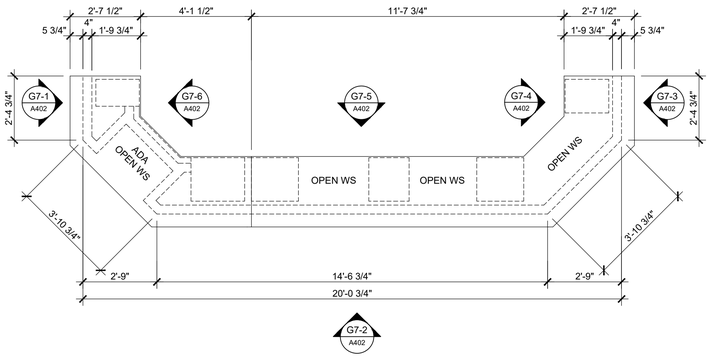
Dwg.No.:

A401



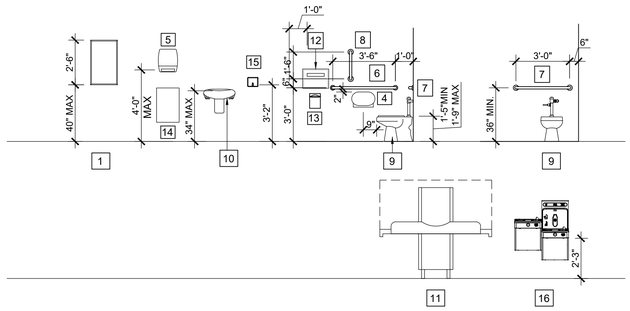
M1 INTERIOR ELEVATIONS

1/4" = 1'-0"



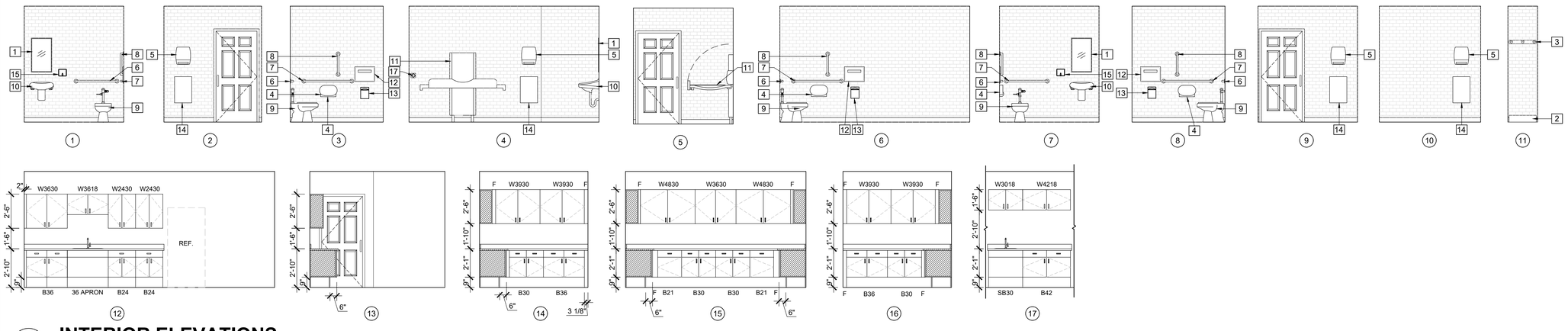
I-1 ALTERNATE #2 CIRCULATION DESK

3/8" = 1'-0"



E1 ADA FIXTURE MOUNTING HEIGHTS

1/4" = 1'-0"

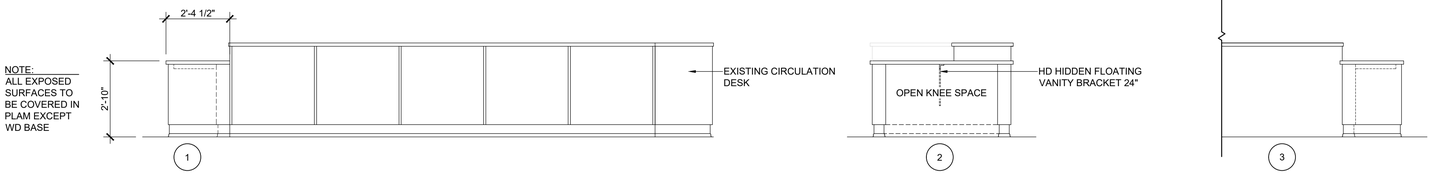


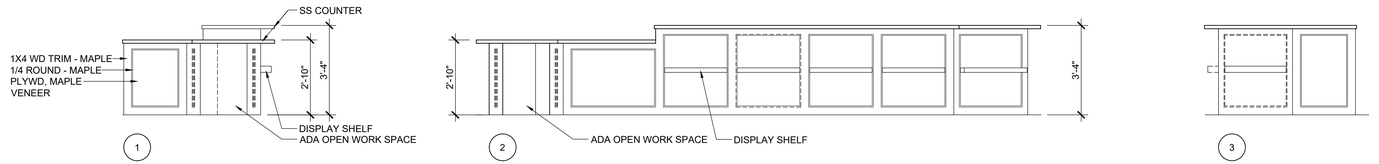
A1 INTERIOR ELEVATIONS

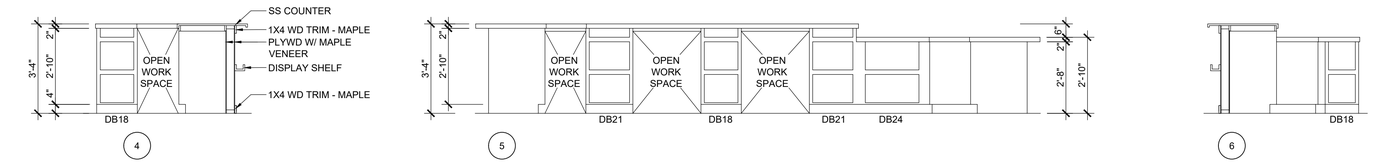
1/4" = 1'-0"

M7 INTERIOR ELEVATIONS

3/8" = 1'-0"







G7 ALTERNATE #2 CIRCULATION DESK ELEVATIONS

3/8" = 1'-0"

WORCESTER COUNTY WILL SUPPLY DISPENSERS TO MATCH EXISTING SYSTEMS BUT CONTRACTOR TO PROVIDE INSTALLATION.

1. MIRROR - 18" WIDE
2. 24" X 24" MOP SINK
3. MOP HOLDER - WALL MOUNT
4. TOILET PAPER DISPENSER
5. PAPER TOWEL DISPENSER
6. GRAB BAR - 36" LONG
7. GRAB BAR - 48" LONG
8. GRAB BAR - 18" LONG
9. TOILET - FLOOR MOUNT
10. LAVATORY - WALL MOUNT W/ HARD PIPE SHROUD
11. ADULT CHANGING TABLE - WALL/FLR MOUNT
12. TOILET SEAT COVER DISPENSER
13. SANITARY NAPKIN RECEPTACLE
14. SEMI-RECESSED TRASH RECEPTACLE
15. SOAP DISPENSER
16. HI/LO DRINKING FOUNTAIN W/ BOTTLE FILLER
17. WALL MOUNT EMERGENCY STOP BUTTON

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SNOW HILL LIBRARY RENOVATIONS

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SNOW HILL, MARYLAND 21863

DATE	COMMENTS

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: EHC
Proj.No.: 0085B054.A01

INTERIOR ELEVATIONS & ALTERNATE #2 INTERIOR ELEVATIONS

Dwg.No.:

A402

ROOM FINISH SCHEDULE

NO.	Name	FLR	Base	Walls N	Walls S	Walls E	Walls W	Clg	HT	NOTES
101	STOR 1	CPT	WD	EXG GYP	GYP	GYP	EXG GYP	ATC	9'-6"	1, 5
102	SPECIAL COLLECTIONS	CPT	WD	EXG GYP	GYP	EXG GYP	GYP	ATC	9'-0"	1, 3
103	A/V ELEC	LVT	WD	EXG GYP	EXG GYP	GYP	EXG GYP	ATC	9'-6"	1
104	STOR 2	CPT	WD	GYP	GYP	GYP	GYP	GYP	9'-6"	1
106	COR 5	LVT	WD	EXG GYP	EXG GYP	EXG GYP	EXG GYP	GYP	8'-6"	1
107	COR 3	LVT	WD	GYP	GYP	GYP	EXG GYP	ATC	8'-6"	1
108	PITTS ARCHIVE	CPT	WD	GYP	GYP	EXG GYP	GYP	ATC	9'-0"	1
109	MEETING ROOM	CPT	WD	EXG GYP	GYP	GYP	GYP	ATC	9'-4"	1, 2, 5
110	STOR 3	CPT	WD	EXG GYP	EXG GYP	EXG GYP	EXG GYP	EXG GYP	8'-6"	
111	BREAK RM	LVT	WD	EXG GYP	GYP	GYP	EXG GYP	ATC	8'-6"	1
112	TOIL	CT	CT	CT	CT	CT	CT	GYP	8'-6"	4
113	STUDY RM	CPT	WD	EXG GYP	GL/GYP	GL/GYP	EXG GYP	ATC	8'-6"	1, 6
114	TOIL	CT	CT	CT	CT	CT	CT	GYP	8'-6"	4
115	STOR 4	CPT	WD	GYP	GYP	GYP	GYP	ATC	8'-6"	
116	TOIL	CT	CT	CT	CT	CT	CT	GYP	8'-6"	4
117	TOIL	CT	CT	CT	CT	CT	CT	GYP	8'-6"	4
118	JAN	LVT	WD	GYP	GYP	GYP	GYP	GYP	8'-6"	
119	STOR 5	CPT	WD	EXG GYP	EXG GYP	EXG GYP	EXG GYP	GYP	8'-6"	
120	STOR T/C	CPT	WD	GYP	EXG GYP	GYP	EXG GYP	ATC	8'-6"	1
121	VEST	CT	CT	GYP	EXG GYP	GYP	GYP	ATC	9'-6"	1
123	COR 4	CPT	WD	GYP	EXG GYP	GYP	GYP	ATC	8'-6"	
124	DIRECTORS OFFICE	CPT	WD	EXG GYP	EXG GYP	EXG GYP	EXG GYP	ATC	9'-0"	1
126	WORK ROOM	CPT	WD	EXG GYP	GYP	GYP	GYP	ATC	9'-6"	1,3
127	WORK RM	CPT	WD	EXG GYP	GYP	EXG GYP	GYP	ATC	9'-6"	1,3
128	CIRCULATION	CPT	WD	--	--	--	EXG GYP	ATC	9'-6"	1
129	OFFICE 1	CPT	WD	GYP	GYP	EXG GYP	GYP	ATC	9'-6"	1
130	RISER/STOR	CPT	WD	GYP	EXG GYP	GYP	GYP	ATC	9'-6"	1
131	BOOK DROP	CPT	WD	EXG GYP	EXG GYP	EXG GYP	GYP	GYP	8'-6"	1
132	EXG VEST	CPT	WD	EXG GYP	EXG GYP	EXG GYP	EXG GYP	ATC	9'-6"	1
133	STACKS	CPT	WD	EXG GYP	EXG GYP	EXG GYP	GYP	ATC	9'-6"	1
134	COR 1	CPT	WD	EXG GYP	GYP	GYP	--	ATC	9'-6"	1
135	COR 2	CPT	WD	--	GYP	EXG GYP	GYP	ATC	9'-6"	1
136	IT ROOM	LVT	WD	GYP	GYP	GYP	EXG GYP	ATC	9'-6"	1

ROOM FINISH SCHEDULE NOTES

1. BASE MOULDING TO BE M163E.
3. REMOVE CROWN MOULDING.
4. CERAMIC TILE TO BE FULL HEIGHT AT TOILET ROOM WALLS.
5. MODIFY EXISTING CEILING AS NEEDED.
6. SEE M1/A402 FOR INTERIOR ELEVATIONS OF GLAZING.

GENERAL NOTES:

1. PATCH AND REPAIR EXISTING GYPSUM BOARD, BASE AND OTHER FINISHES AS NEEDED.
2. BRICK FLOOR TO REMAIN AT ENTRY/CIRCULATION DESK AREA.
3. CROWN MOULDING TO REMAIN AT EXISTING WALLS, TO BE PAINTED.

DOOR SCHEDULE

Door						Frame		Details			Remarks		
Number	Type	Mat	Size W	Size H	Size TH	Type	Mat	Sill	Jamb	Head	Label	Hdw Set	Note
102-1	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
105-2	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	1-HR	--	6
106-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	1 HR	--	6
106-2	P	HM	3'-0"	7'-0"	1 3/4"	104	HM/WD	6	5	4	--	--	1, 5
106-3	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
107-1	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
107-2	P	SCWD	3'-0"	6'-8"	1 3/4"	102	WD/HM	3	2	1	--	--	
107-3	--	EXG	2'-8"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
108-1	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
109-1	P	SCWD	6'-0"	6'-8"	1 3/4"	103	HM/WD	3	2	1	--	--	
109-3	--	EXG	2'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
111-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	
111-2	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	8
112-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	4
113-1	FG	AL	3'-0"	7'-0"	1 3/4"	105	AL	9	8	7	--	--	
114-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	4
115-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	
118-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	
121-1	P	HM	6'-0"	6'-8"	1 3/4"	106	HM/WD	6	5	4	--	--	1, 5
121-2	P	SCWD	6'-0"	6'-8"	1 3/4"	103	HM/WD	3	2	1	--	--	5
123-1	--	EXG	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	2, 7, 9
123-2	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	4
123-3	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	4
123-4	--	EXG	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	9
124-1	--	EXG	3'-0"	7'-0"	1 3/4"	102	HM/WD	3	2	1	--	--	10
126-1	P-HG1	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	
126-2	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
126-3	--	EXG	3'-0"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
126-4	P	HM	3'-0"	7'-0"	1 3/4"	104	HM/WD	6	5	4	--	--	1
129-1	--	EXG	3'-0"	7'-0"	1 3/4"	102	HM/WD	3	2	1	--	--	2, 11
130-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	
131-1	--	EXG	2'-8"	6'-8"	1 3/4"	--	EXG	EXG	EXG	EXG	--	--	
132-1	FG	AL	6'-0"	7'-0"	1 3/4"	101	AL	12	11	10	--	--	3, 5
132-2	FG	AL	6'-0"	7'-0"	1 3/4"	101	AL	12	11	10	--	--	3, 5
133-1	P-HG2	HM	3'-0"	7'-0"	1 3/4"	--	EXG	15	14	13	--	--	5
133-2	P-HG2	HM	3'-0"	7'-0"	1 3/4"	--	EXG	15	14	13	--	--	3, 5
136-1	P	SCWD	3'-0"	6'-8"	1 3/4"	102	HM/WD	3	2	1	--	--	1

DOOR SCHEDULE NOTES

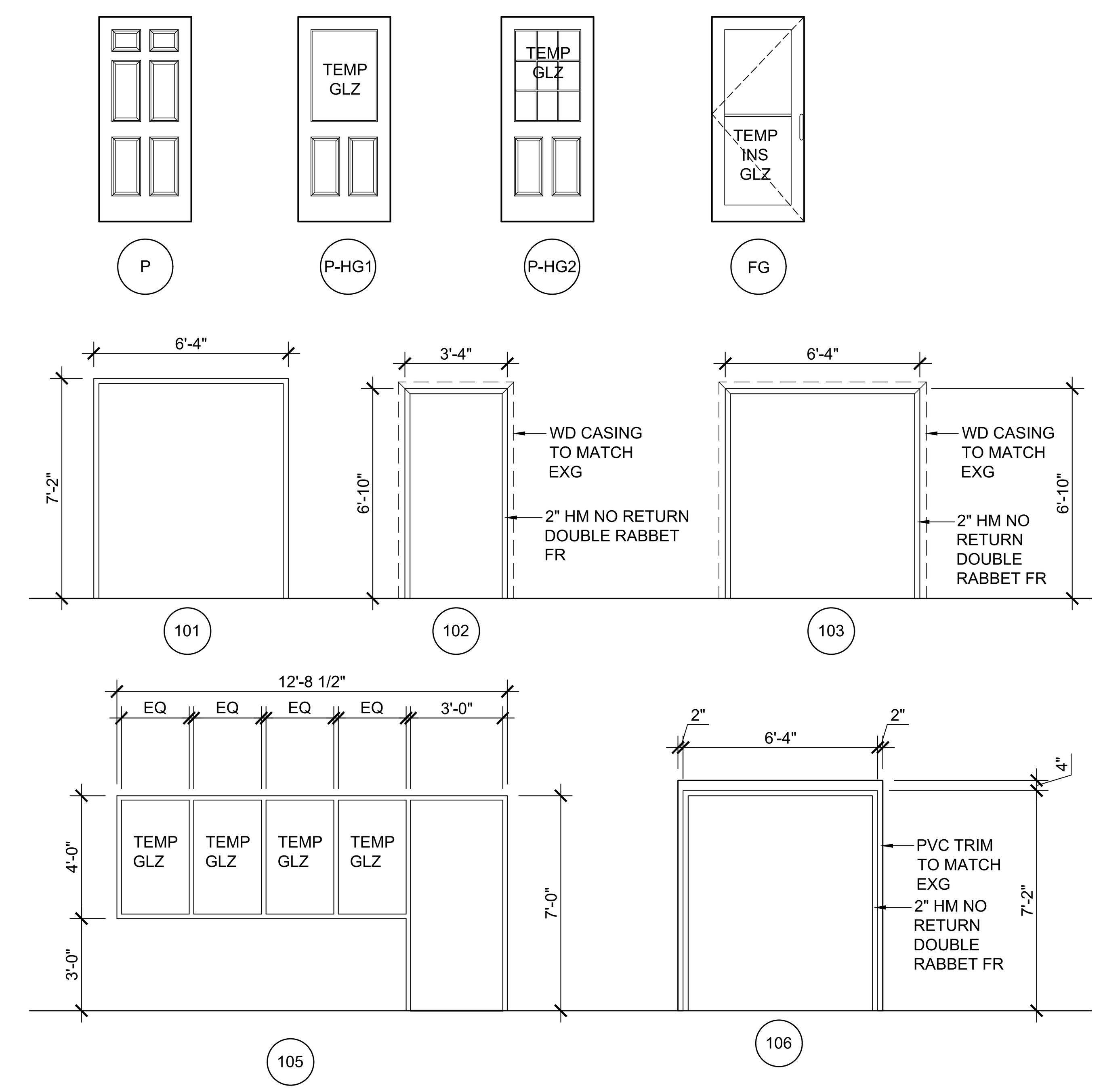
1. DOOR HARDWARE CONTRACTOR TO PREP THE DOORS AND FRAMES PROPERLY FOR 12VDC ELECTRIC LOCKS.
2. DOOR WILL BE KEYED.
3. DOOR TO HAVE NEW ADA PUSH BUTTON/ACTIVATION DEVICE TO REPLACE EXISTING.
4. DOOR TO HAVE VACANT/OCCUPIED LOCKS.
5. DOOR TO HAVE PANIC HARDWARE WITH BLACK BAR HANDLES.
6. DOOR TO BE 1-HOUR RATED.
7. DOOR TO BE SECURED AFTER HOURS.
8. REVERSE DOOR SWING ON EXISTING DOOR & FRAME.
9. EXISTING DOOR AND FRAME TO BE USED FOR NEW OPENING LOCATION.
10. INSTALL EXISTING EXTERIOR DOOR 133-2 IN EXISTING DOOR OPENING FOR 124-1.
11. INSTALL EXISTING EXTERIOR DOOR 133-1 IN EXISTING DOOR OPENING FOR 129-1.

GENERAL NOTES:

1. ALL EXISTING AND NEW DOORS WILL RECEIVE NEW LOCKSETS SO THAT ALL DOORS MATCH AND ARE RE-KEYED WITH A MASTER.

ABBREVIATION LEGEND

AL	ALUMINUM
ATC	ACOUSTICAL TILE CEILING
CPT	CARPET
CT	CERAMIC TILE
GYP	GYPSUM
HM	HOLLOW METAL
SCWD	SOLID CORE WOOD DOOR
WD	WOOD
GL	GLASS



F14 **DOOR & FRAME TYPES**

1/4" = 1'-0"

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect in the laws of the State of Maryland License No. 11115. Expiration Date: 09-08-2026

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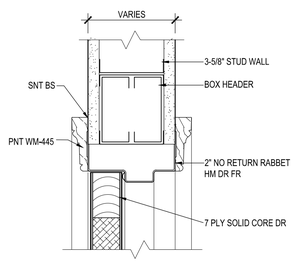
DOOR & FRAME TYPES & SCHEDULES

Dwg.No.: **A601**



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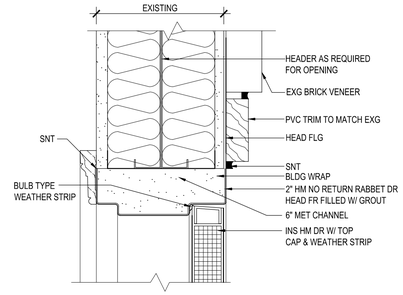

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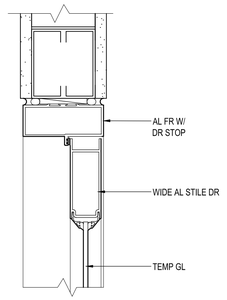

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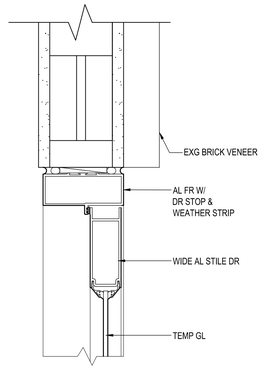

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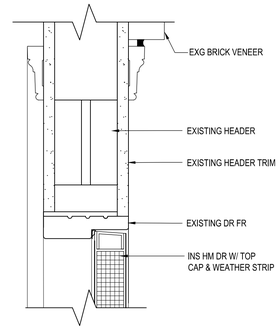

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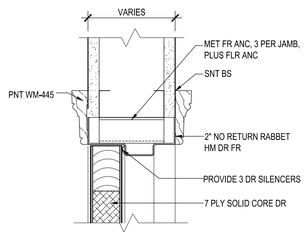

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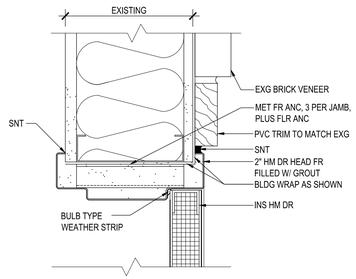

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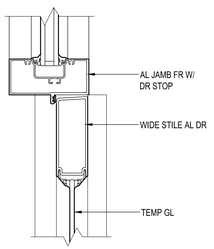

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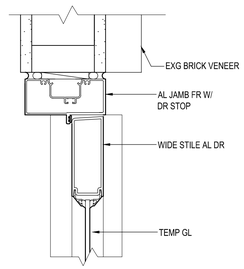

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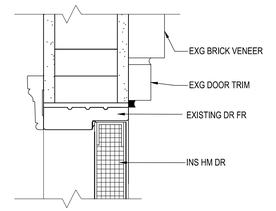

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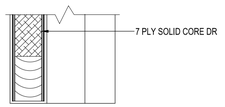

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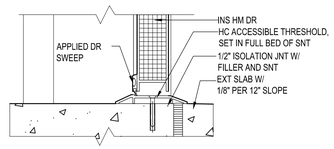

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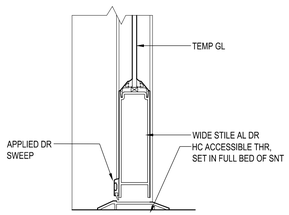

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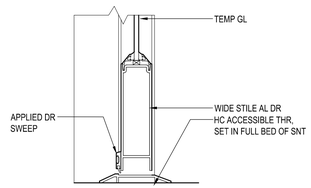

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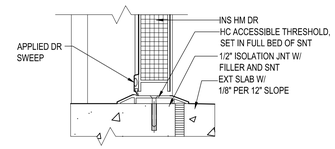

15 SILL

A20 **DOOR DETAILS**
3" = 1'-0"

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect in the laws of the State of Maryland License No. 11115. Expiration Date: 09-08-2026

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Proj.No.: 0085B054.A01

DOOR DETAILS

Dwg.No.: **A602**

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DEFINITION
		SHOCK ABSORBER
		THERMOMETER
		PRESSURE GAUGE W/ NEEDLE VALVE
	VTR	VENT THRU ROOF
		FIRE PROTECTION SHUT-OFF VALVE W/ TAMPER SWITCH
		STRAINER W/ BLOW DOWN VALVE AND HOSE END DRAIN CONNECTION
		GAS COCK
		GAUGE VALVE
		BALL VALVE
		CIRCUIT SETTER
		BALANCE & SHUT-OFF VALVE W/ MEMORY
		UNION
		FLEXIBLE CONNECTION
	NFWH	WALL HYDRANT (NON-FREEZE)
	HB	HOSE BIBB
	IRWH	INTERIOR RECESSED WALL HYDRANT
		GLOBE VALVE
		GATE VALVE
		MULTI-PURPOSE VALVE
		RPZ BACKFLOW PREVENTER
		BALANCE VALVE
		STRAINER
	OS&Y	OUTSIDE SCREW AND YOKE
		CHECK VALVE
		VACUUM RELIEF VALVE
		PIPE ANCHOR
		PIPE GUIDE/SLEEVE
		CAPPED PIPE
		PIPE UP
		PIPE DOWN
		BOTTOM PIPE CONNECTION
		TOP PIPE CONNECTION
	FDR	FLOOR SINK W/ TRAP PRIMING LINE
	FDR	FLOOR DRAIN W/ TRAP PRIMING LINE
	SAN, W	SANITARY, SOIL, WASTE
	V	PLUMBING VENT
	SW	STORMWATER PIPING
	CO	CLEANOUT: LINE, FLUSH
		BELOW SLAB/GRADE PIPING
	CW	COLD WATER
	CW	COLD WATER (BELOW GRADE)
	HW	HOT WATER (110°F)
	HW	HOT WATER (110°F, BELOW GRADE)
	HWR	HOT WATER RECIRCULATING (110°F)
	CD	A/C CONDENSATE DRAIN
LPG	LPG	PROPANE GAS PIPING
LPG	LPG	PROPANE GAS PIPING (BELOW GRADE)
	PDI	PLUMBING & DRAINAGE INSTITUTE
	IW	INDIRECT WASTE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	DS	DOWNSPOUT
	RDR	ROOF DRAIN
	EX	EXISTING
		DOUBLE CHECK VALVE BACKFLOW PREVENTER
	RX	DEMOLITION ENDS HERE
	CX	CONNECT TO EXISTING
		SPRINKLER HEAD: WALL, CEILING
#		DRAWING NOTE - DEMOLITION
#		DRAWING NOTE - NEW WORK
X / XXX — PART PLAN NO. / DRAWING NO.		PART PLAN DESIGNATION

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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8719 Brooks Drive
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Fax (410) 822-6306
WO# 24038

SNOW HILL LIBRARY RENOVATIONS
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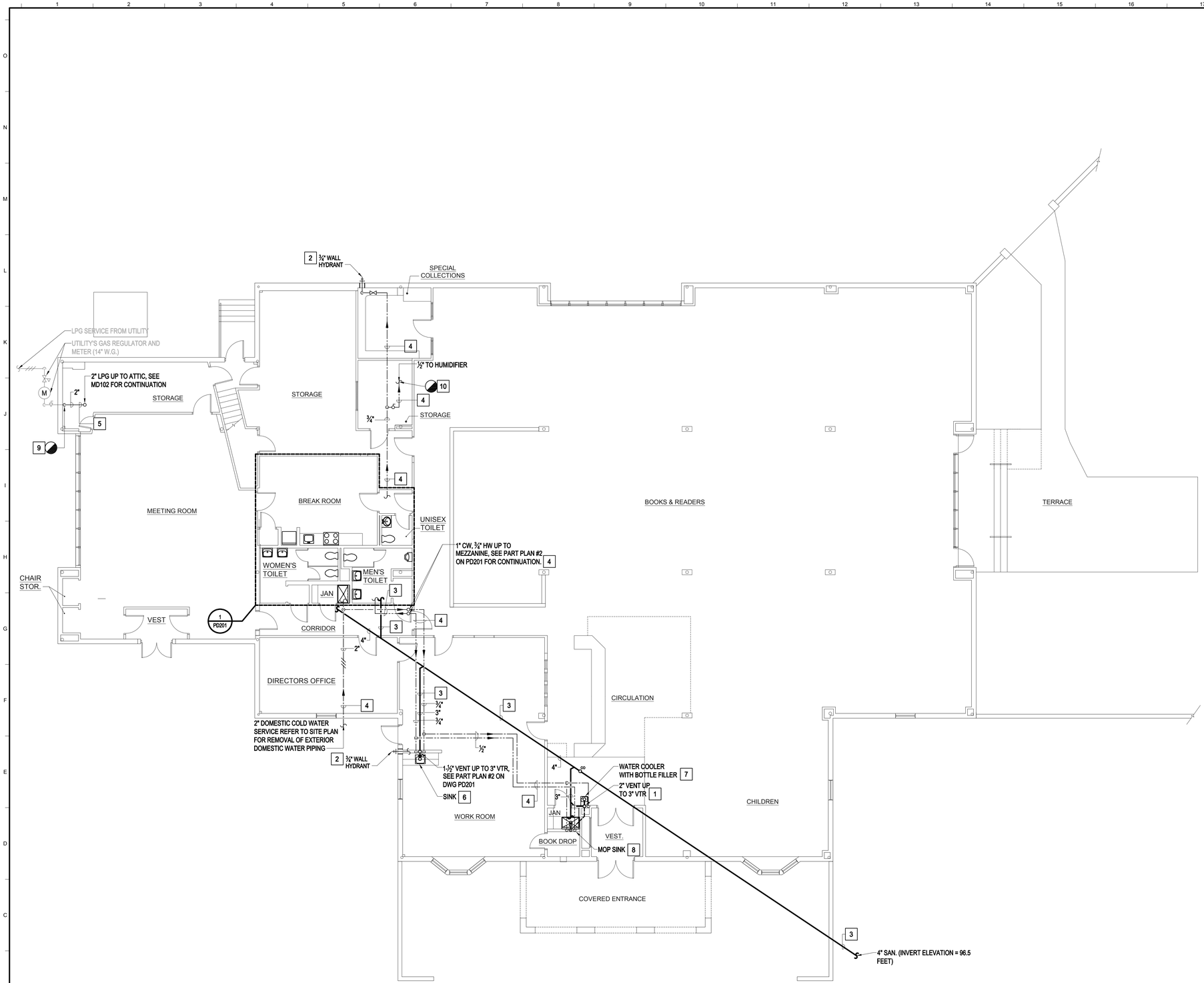
Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: RAK
Proj.No.: 0085B054.A01

LEGEND PLUMBING

Dwg.No.:
P001

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. REMOVE VENT PIPE AND ALL ASSOCIATED PIPING AND SUPPORTS.
2. REMOVE WALL HYDRANT AND ALL ASSOCIATED PIPING, VALVES, INSULATION, AND SUPPORTS.
3. REMOVE SANITARY PIPING AND ALL ASSOCIATED SUPPORTS.
4. REMOVE PIPING AND ALL ASSOCIATED INSULATION, VALVES, FITTINGS, AND SUPPORTS.
5. REMOVE PROPANE GAS PIPING AND ALL ASSOCIATED VALVES, FITTINGS, AND SUPPORTS
6. REMOVE COUNTER SINK AND ALL ASSOCIATED SAN., CW, HW AND VENT PIPING.
7. REMOVE WATER COOLER/ BOTTLE FILLER AND ALL ASSOCIATED SAN., CW AND VENT PIPING.
8. REMOVE MOPSINK AND ALL ASSOCIATED SAN., CW, HW, AND VENT PIPING.
9. REMOVE GAS PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
10. REMOVE CW PIPING SERVING HUMIDIFIER TO POINT INDICATED. TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.



FIRST FLOOR PLAN - PLUMBING - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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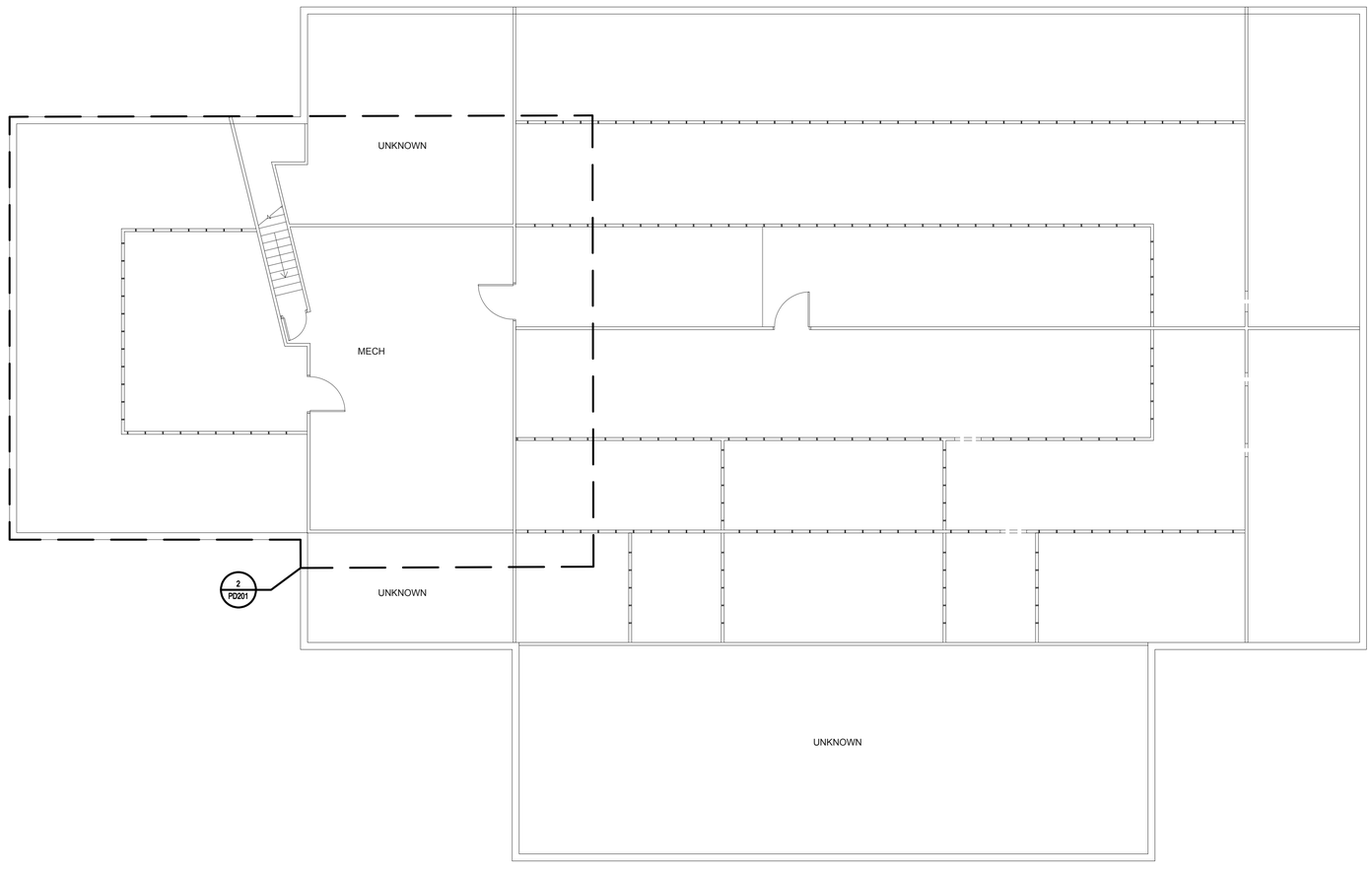
FIRST FLOOR PLAN PLUMBING DEMOLITION

Dwg.No.: **PD101**



ATTIC FLOOR PLAN - PLUMBING - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
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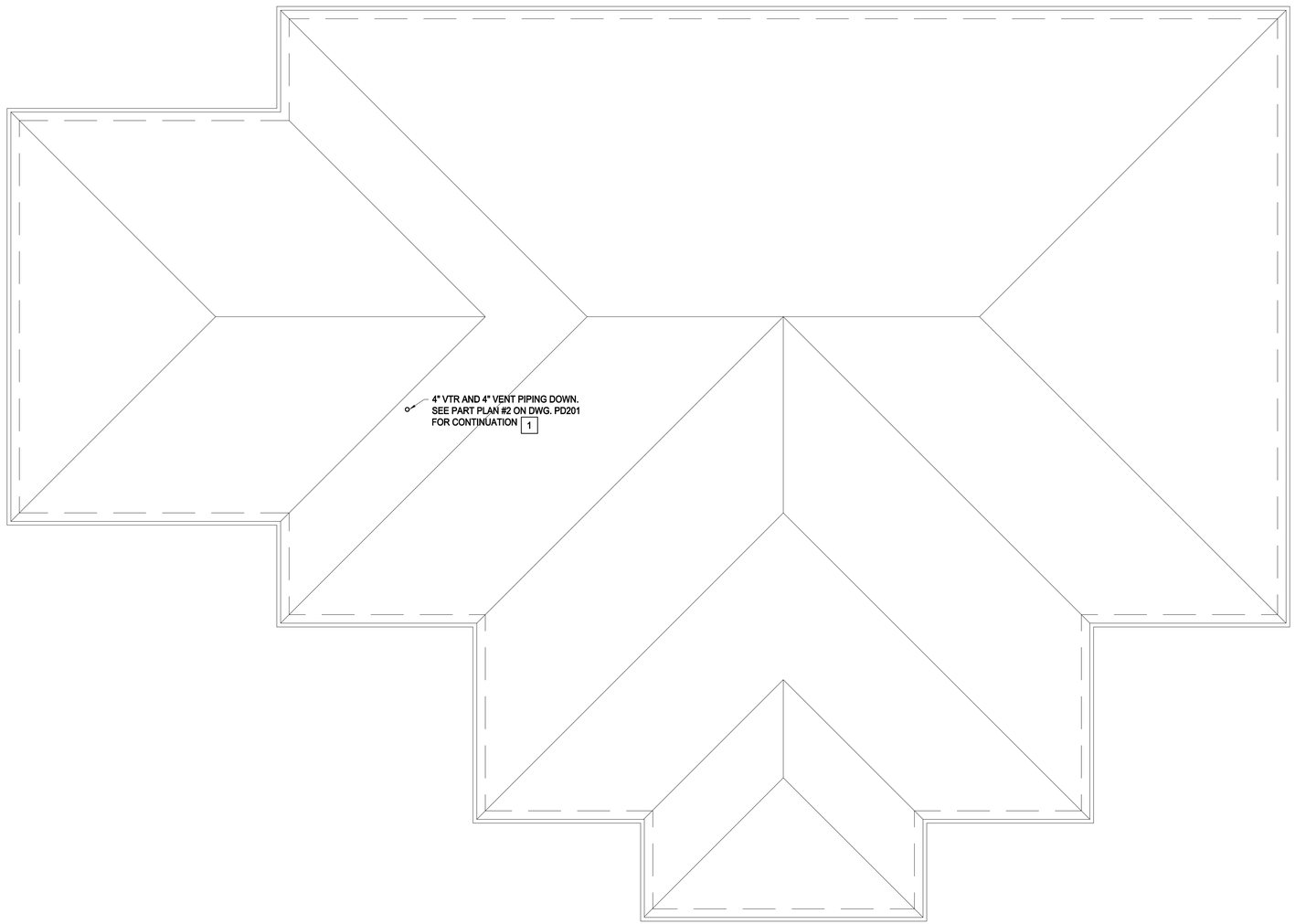
ATTIC FLOOR PLAN PLUMBING DEMOLITION

Dwg.No.:

PD102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1 REMOVE VENT AND ALL ASSOCIATED PIPING AND SUPPORTS.



ROOF PLAN - PLUMBING - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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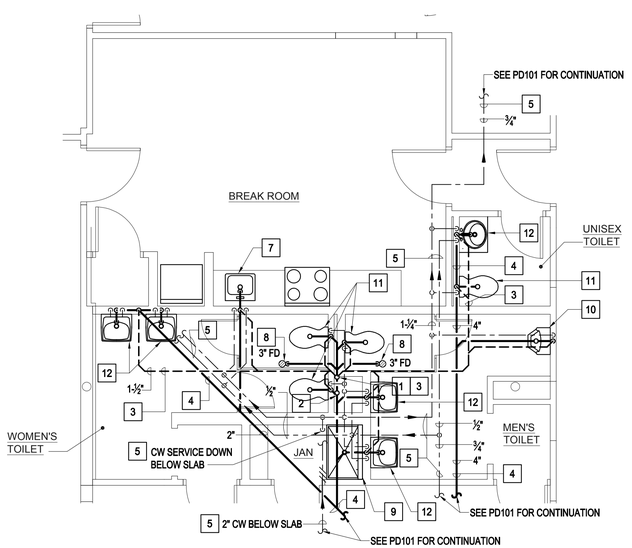
ROOF PLAN PLUMBING DEMOLITION

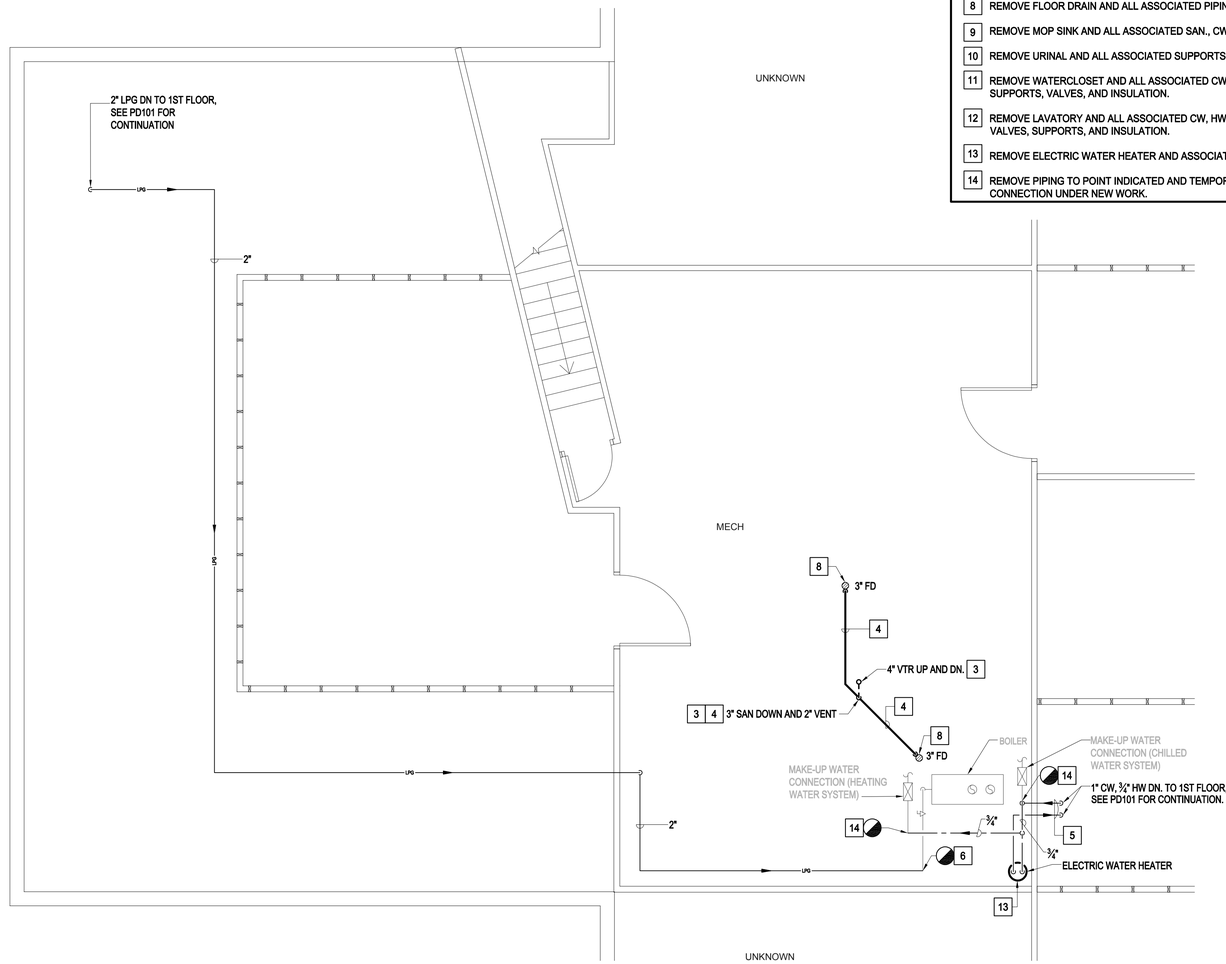
Dwg.No.:
PD103

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

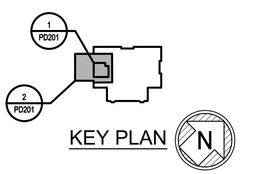
1. 4" VENT UP TO MEZZANINE, SEE PART PLAN #2 ON THIS SHEET FOR CONTINUATION.
2. 3" SAN. UP TO MEZZANINE FLOOR DRAINS, SEE PART PLAN #2 ON THIS SHEET FOR CONTINUATION.
3. REMOVE VENT PIPE AND ALL ASSOCIATED PIPING AND SUPPORTS.
4. REMOVE SANITARY PIPING AND ALL ASSOCIATED SUPPORTS.
5. REMOVE PIPING AND ALL ASSOCIATED INSULATION, VALVES, FITTINGS, AND SUPPORTS.
6. REMOVE GAS PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
7. REMOVE COUNTER SINK AND ALL ASSOCIATED SUPPORTS, SAN., CW, HW AND VENT PIPING.
8. REMOVE FLOOR DRAIN AND ALL ASSOCIATED PIPING AND SUPPORTS.
9. REMOVE MOP SINK AND ALL ASSOCIATED SAN., CW, HW, AND VENT PIPING.
10. REMOVE URINAL AND ALL ASSOCIATED SUPPORTS, SAN., CW AND VENT PIPING.
11. REMOVE WATERCLOSET AND ALL ASSOCIATED CW, SANITARY, VENT PIPING, SUPPORTS, VALVES, AND INSULATION.
12. REMOVE LAVATORY AND ALL ASSOCIATED CW, HW, SANITARY, VENT PIPING, VALVES, SUPPORTS, AND INSULATION.
13. REMOVE ELECTRIC WATER HEATER AND ASSOCIATED PIPING AND SUPPORTS.
14. REMOVE PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.



1 PD201 PART PLAN - PLUMBING - DEMOLITION



2 PD201 PART PLAN - PLUMBING - DEMOLITION



KEY PLAN

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

4 0 4 8

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PART PLANS PLUMBING DEMOLITION

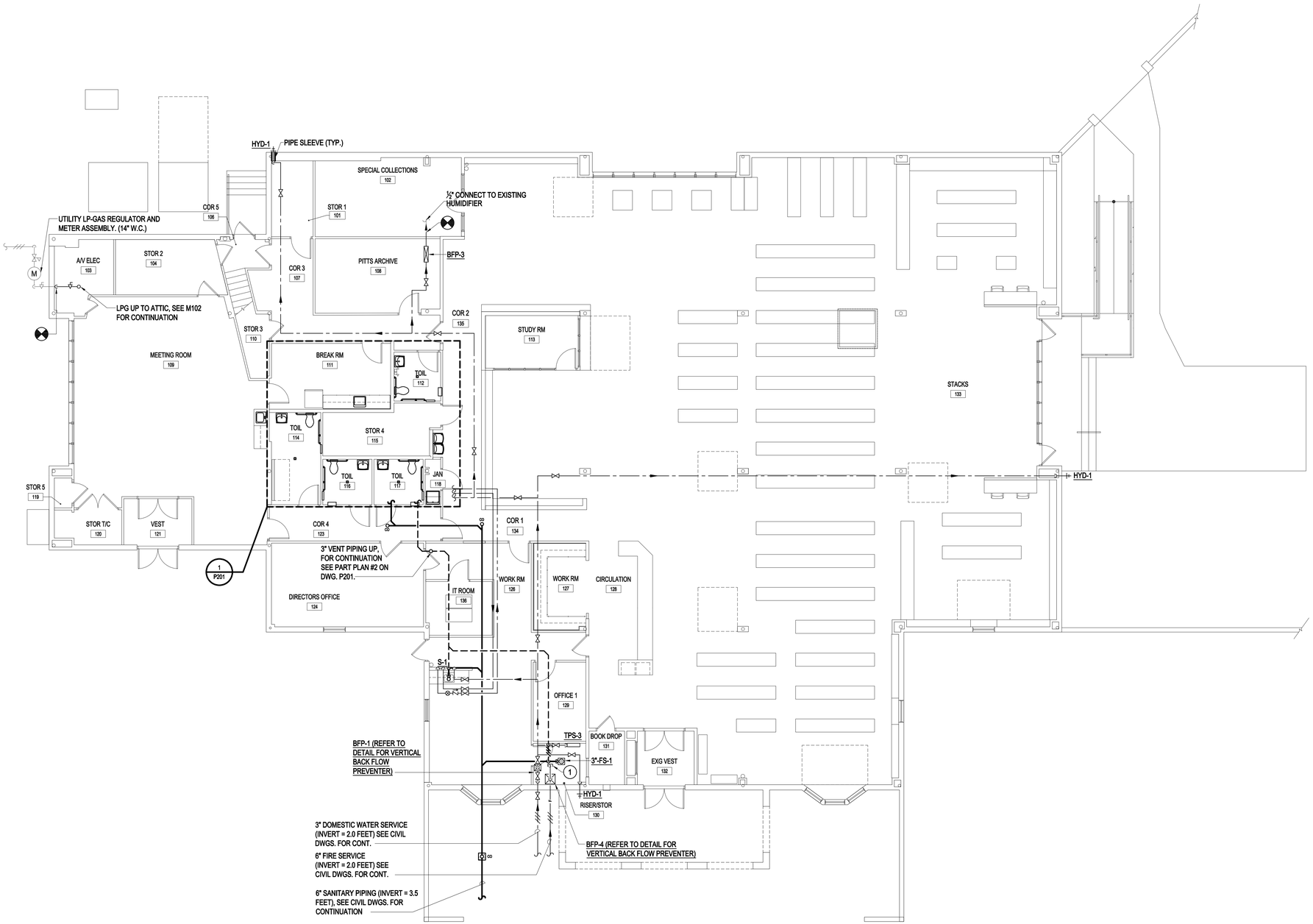
Dwg.No.: **PD201**

GENERAL NOTES:
(APPLY TO ALL DRAWINGS)

1. ALL INVERT CALCULATIONS ARE BASED ON ASSUMED FINISHED FLOOR ELEVATION OF 7.73 FT AND GRADE ELEVATION OF 6 FT. REFER TO CIVIL DRAWINGS FOR EXACT ELEVATIONS.

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

(1) VALVE AND CAP FIRE SERVICE FOR FUTURE CONNECTION.



FIRST FLOOR PLAN - PLUMBING - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
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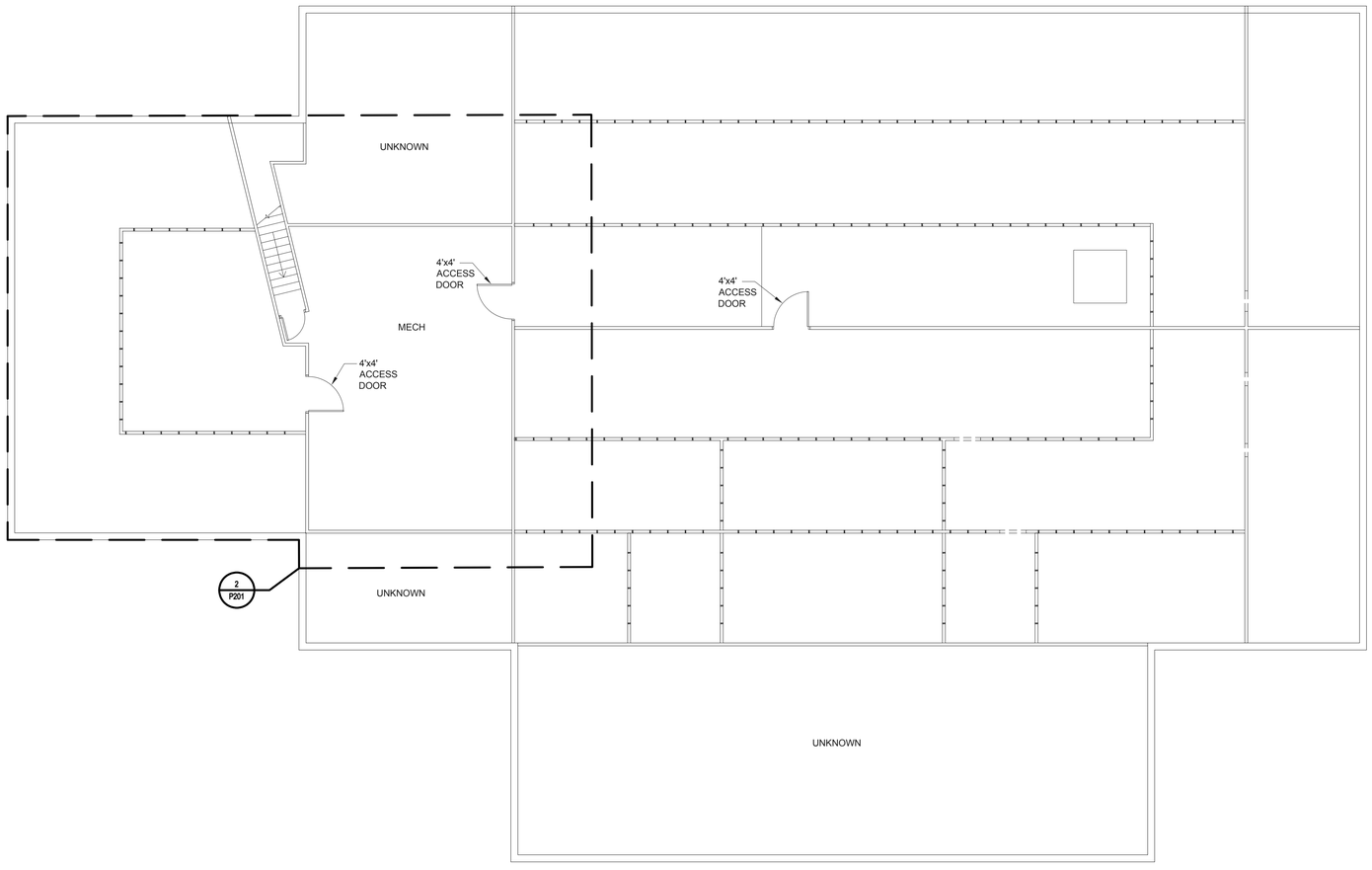
FIRST FLOOR PLAN PLUMBING NEW WORK

Dwg.No.: **P101**



ATTIC FLOOR PLAN - PLUMBING - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
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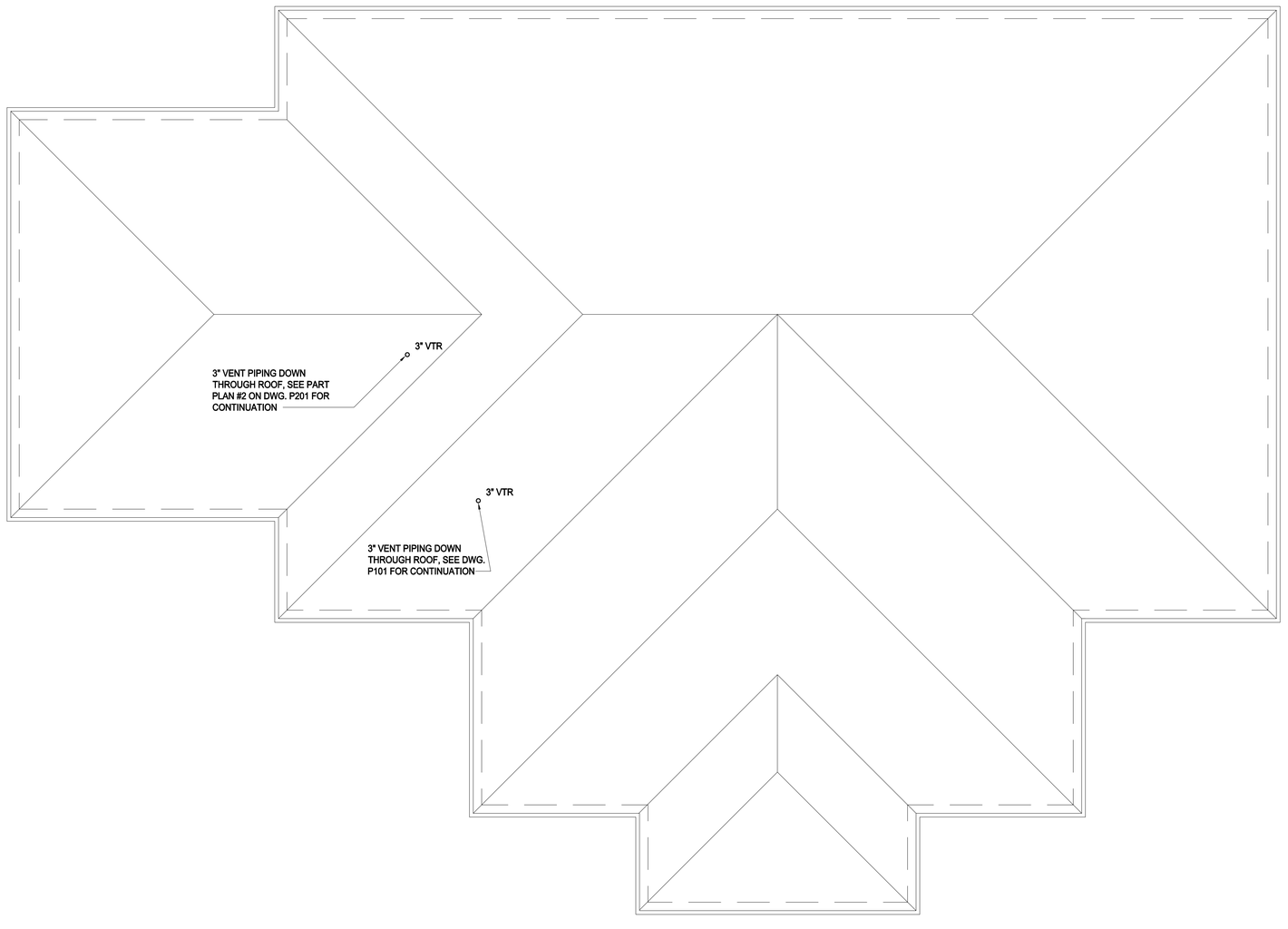
ATTIC FLOOR PLAN PLUMBING NEW WORK

Dwg.No.: **P102**



ROOF PLAN - PLUMBING - NEW WORK

N

KEY PLAN

N

SCALE: 1/8" = 1'-0"

8 0 8 16

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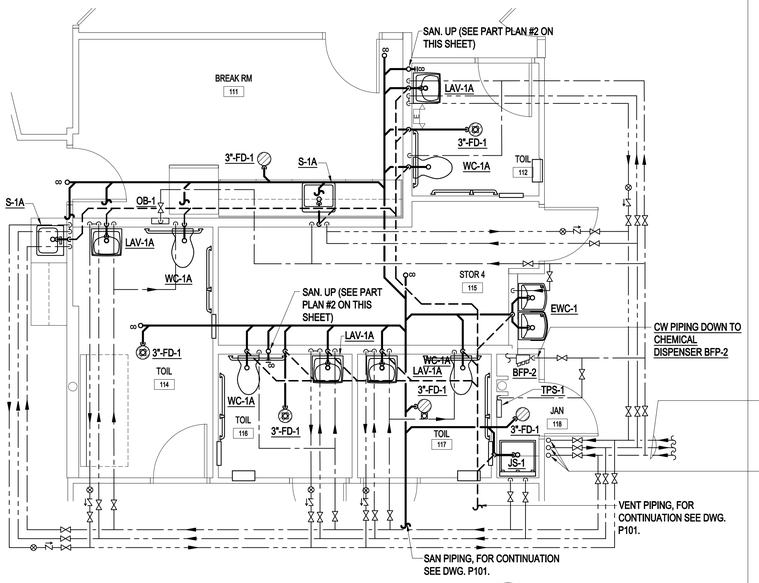
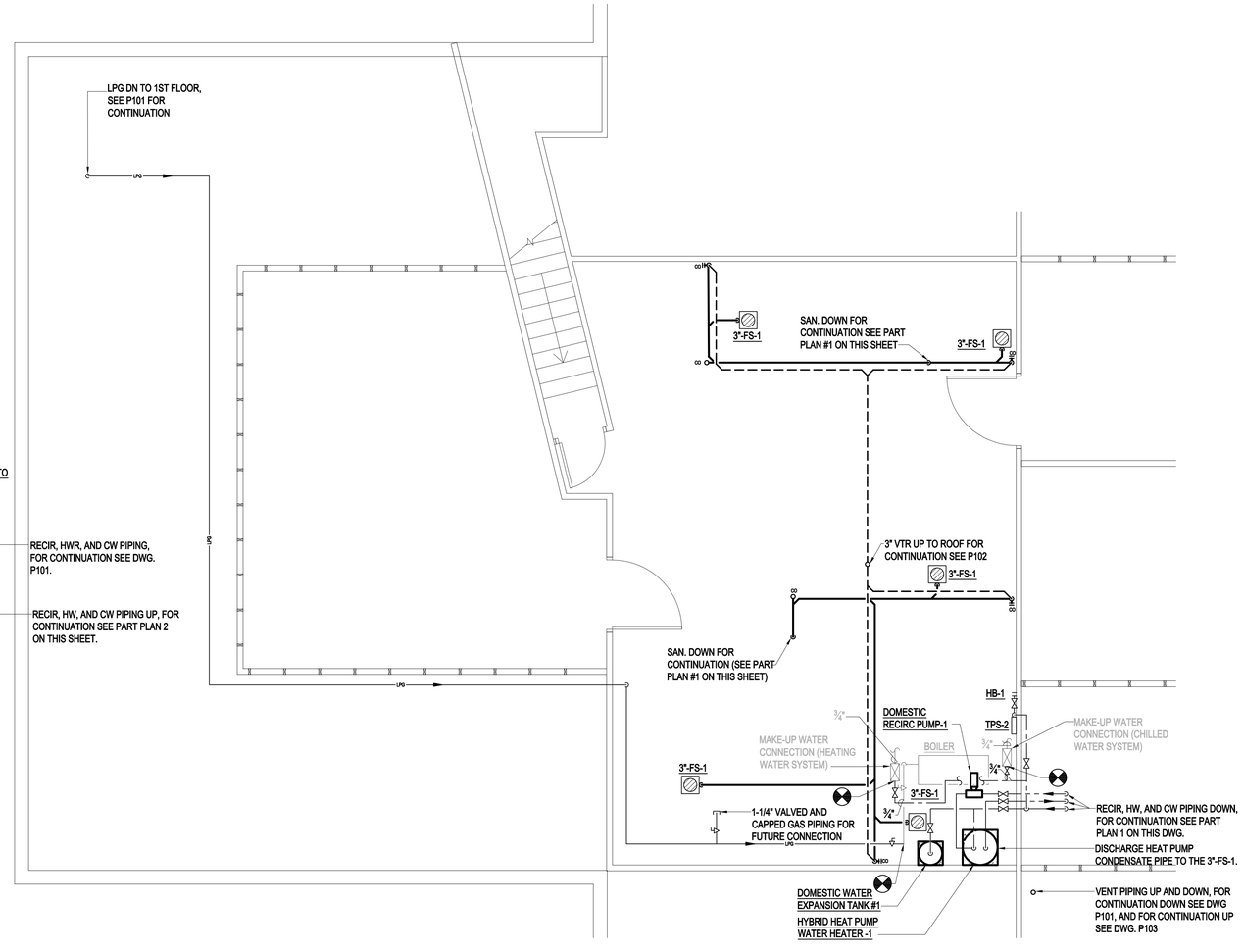
ROOF PLAN PLUMBING NEW WORK

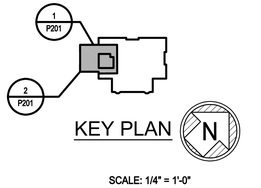
Dwg.No.:
P103



1 P201 PART PLAN - PLUMBING - NEW WORK



2 P201 PART PLAN - PLUMBING - NEW WORK



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

4 0 4 8

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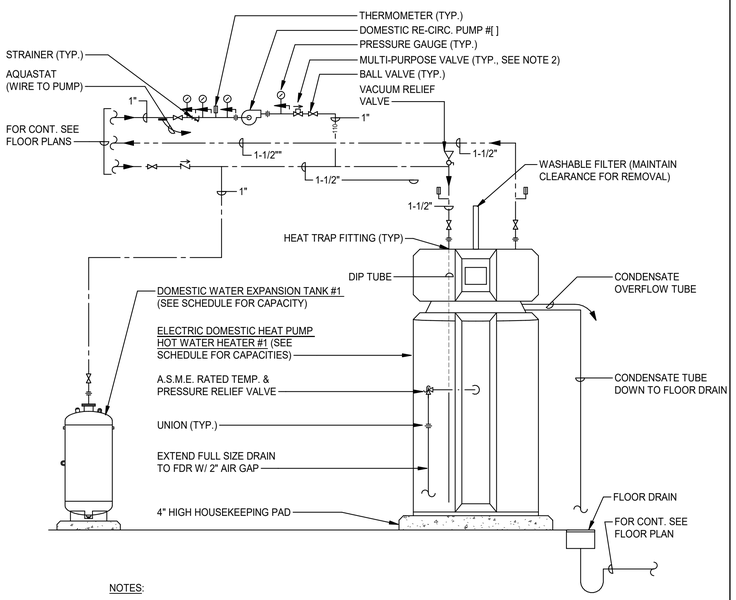
PART PLANS PLUMBING NEW WORK

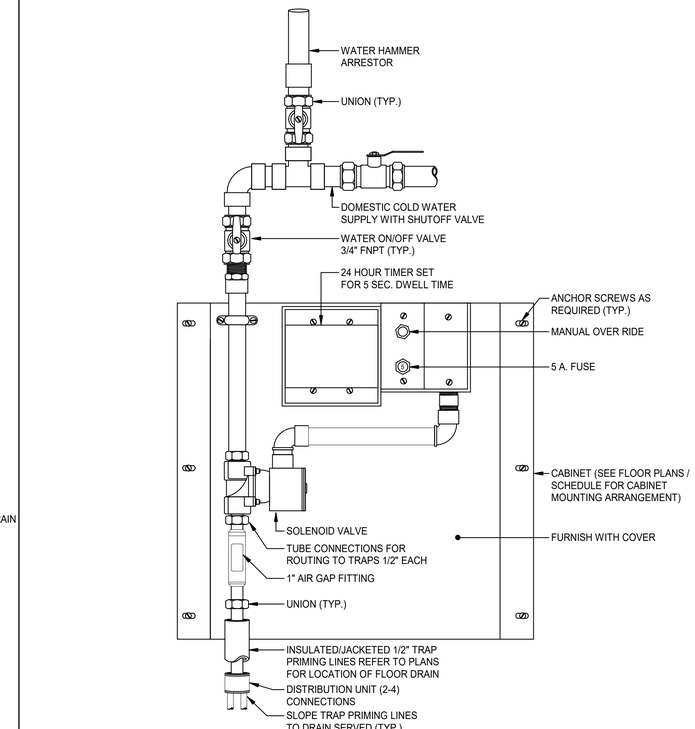
Dwg.No.: **P201**



NOTES:

1. ALL CHECK VALVES TO BE INSTALLED IN HORIZONTAL POSITION ONLY.
2. WHERE RE-CIRC. PIPING ON PUMP DISCHARGE IS LESS THAN 1-1/2", CONTRACTOR SHALL INSTALL SEPARATE CHECK VALVE, SHUT-OFF VALVE, AND BALANCE VALVE IN LIEU OF MULTI-PURPOSE VALVE.

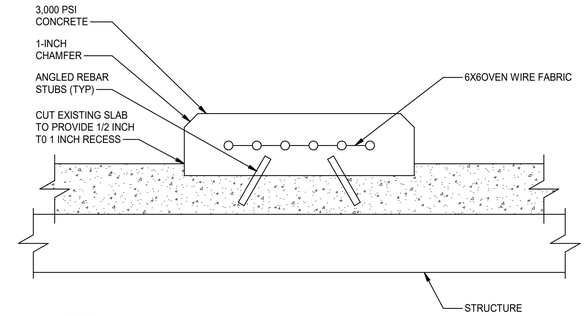
1 DETAIL - HYBRID HEAT PUMP ELECTRIC DOMESTIC WATER HEATER (SINGLE TEMP. SYSTEM, FLOOR MOUNTED EXPANSION TANK AND SINGLE RE-CIRC PUMP)



NOTES:

1. PROVIDE FIELD FABRICATED 20 GUAGE 304 STAINLESS STEEL COVER FROM BOTTOM OF TRAP PRIMING STATION TO FINISHED FLOOR.
2. LABEL ALL TRAP PRIMERS AS TO WHAT ROOMS THEY SERVE.
3. UTILIZE MINI - TRAP PRIMING STATION FOR 1-4 TRAP CONNECTIONS. FOR SERVICE OF 5 OR MORE TRAPS, UTILIZE LARGE TRAP PRIMING STATION.

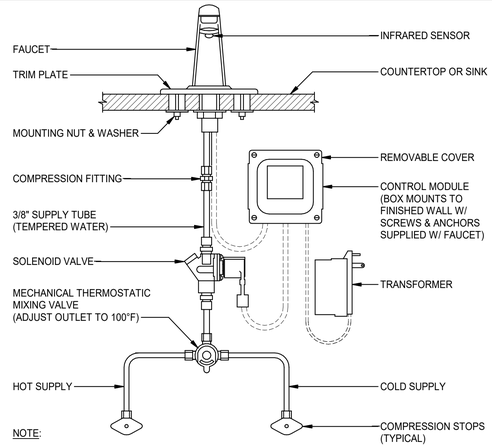
2 DETAIL - MINI TRAP PRIMING STATION



NOTES:

1. WHERE NEW CONCRETE HOUSEKEEPING PADS ARE PLACED ON EXISTING CONCRETE, SAW CUT THE EXISTING CONCRETE TO THE PERIMETER DIMENSION OF THE NEW PAD TO A DEPTH OF 1/2 INCH. BREAK OUT THE TOP 1/2 INCH AREA OF THE EXISTING CONCRETE. ADD STUBS OF #4 REBAR ANGLED INTO THE EXISTING CONCRETE AT A DEPTH OF APPROXIMATELY 50 PERCENT OF THE EXISTING SLAB THICKNESS. THE TOP PORTION OF THE REBAR STUB SHALL EXTEND INTO THE NEW PAD BY APPROXIMATELY 50 PERCENT OF ITS THICKNESS. FURNISH ONE REBAR STUB PER EVERY TWO SQUARE FEET OF THE NEW PAD. CHEMICALLY BOND THE NEW CONCRETE TO THE EXISTING CONCRETE.
2. EXTEND CONCRETE 4-6 INCHES BEYOND EQUIPMENT.
3. PAINT EDGES OF SLAB SAFETY YELLOW.

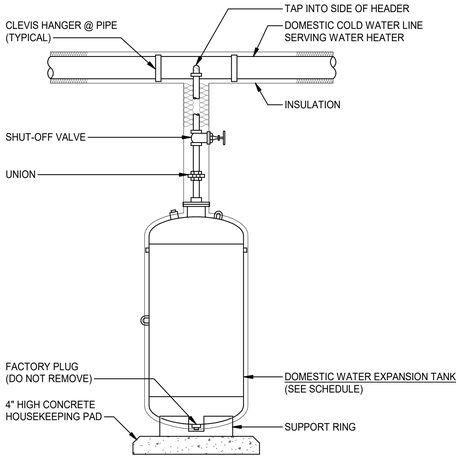
3 DETAIL - CONCRETE HOUSEKEEPING PAD



NOTE:

1. PROVIDE & INSTALL LAV GUARD TO CONCEAL ALL EQUIPMENT BELOW LAVATORY

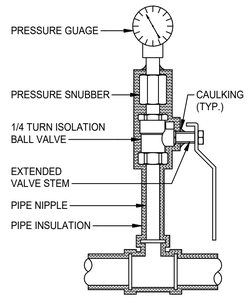
4 DETAIL - TYPICAL INFRARED FAUCET W/ THERMOSTATIC MIXING VALVE



NOTES:

1. SET TANK DEAD LEVEL BOTH DIRECTIONS.
2. SEE RISER DIAGRAM AND WATER HEATER DETAIL(S) FOR PIPE SIZES.

5 DETAIL - FLOOR MOUNTED DOMESTIC WATER EXPANSION TANK



NOTE:

1. FOR SYSTEMS OPERATING BELOW THE DEWPOINT TEMPERATURE OF THE AMBIENT AIR, REPLACE THE CAULKING WITH WATERPROOF MASTIC TO PREVENT CONDENSATION.

6 DETAIL - TYPICAL PRESSURE GAUGE INSTALLATION

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No.	Date	Description

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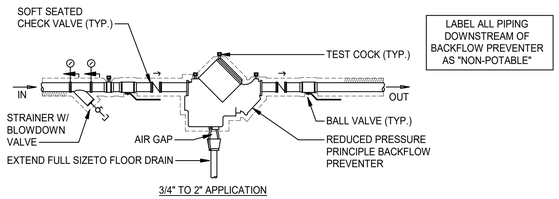
DETAILS PLUMBING

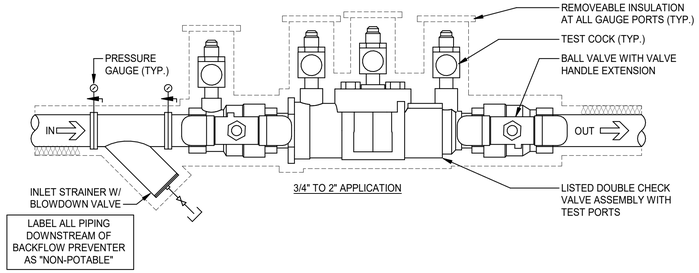
Dwg.No.: P301



NOTES:

1. UNLESS OTHERWISE NOTED MOUNTING HEIGHT SHALL BE BETWEEN 12" AND 60 " ABOVE FINISHED FLOOR.
2. EXTERNALLY INSULATE AS SPECIFIED, PROVIDE REMOVABLE INSULATION COVERS FOR TEST PORTS.

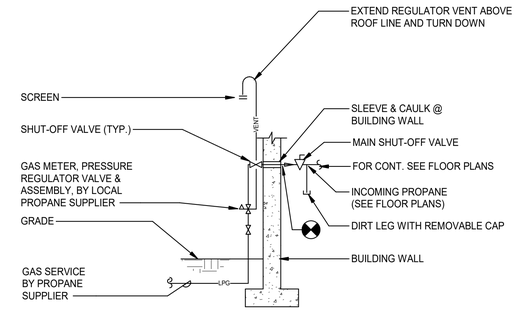
1 DETAIL - REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS



NOTES:

1. UNLESS OTHERWISE NOTED MOUNTING HEIGHT SHALL BE BETWEEN 12" AND 60" ABOVE THE FINISHED FLOOR.
2. EXTERNALLY INSULATE AS SPECIFIED, PROVIDE REMOVABLE INSULATION COVERS FOR TEST PORTS.

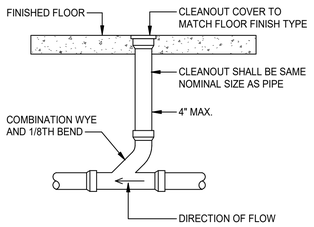
2 DETAIL - DOUBLE CHECK VALVE ASSEMBLY



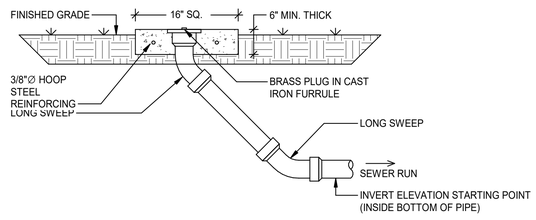
NOTE:

1. ALL GAS PIPING TO BE PROPERLY PRIMED AND FINISHED WITH TWO COATS OF PAINT IN COLOR AS SELECTED BY ARCHITECT

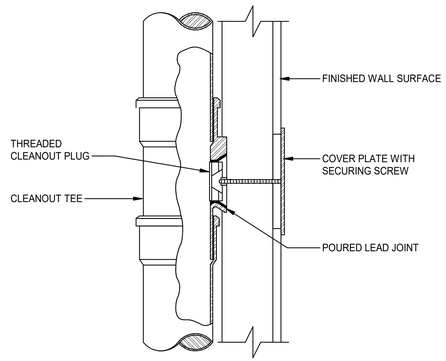
3 DETAIL - TYPICAL CENTRAL PROPANE GAS ENTRY PIPING



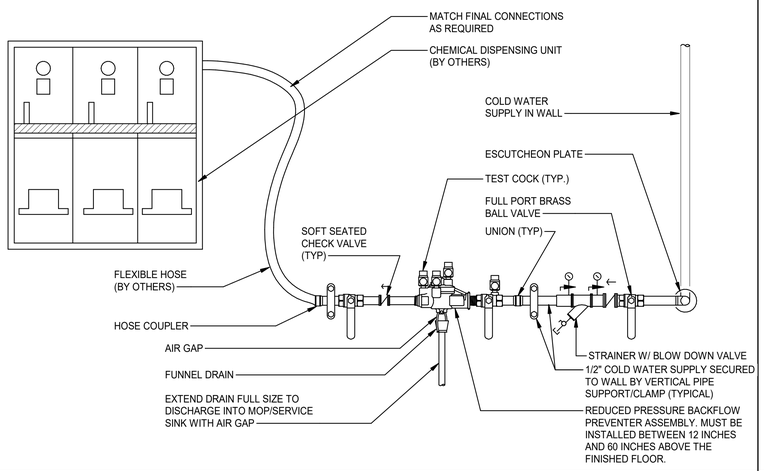
4 DETAIL - TYPICAL INTERIOR SANITARY CLEANOUT



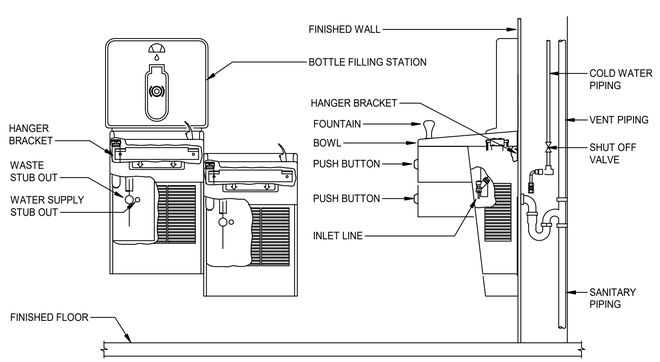
5 DETAIL - EXTERIOR CLEANOUT



6 DETAIL - INTERIOR WALL CLEANOUT - HUB AND SPIGOT WITH COVER PLATE



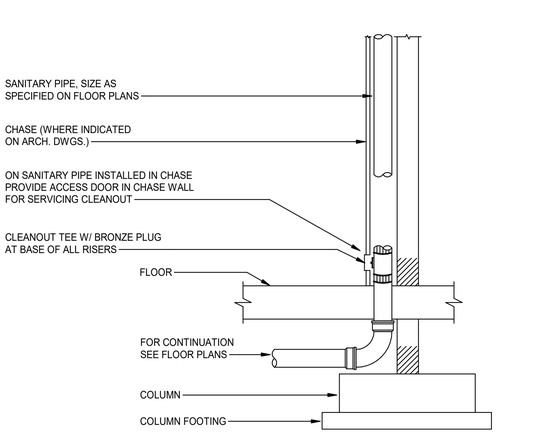
7 DETAIL - CHEMICAL DISPENSING WATER SUPPLY



NOTES:

1. MOUNTING HEIGHT TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.
2. MANUFACTURER TO PROVIDE POWER CORD WITH PLUG.

8 DETAIL - SURFACE MOUNT DUAL HEIGHT ELEC. WATER COOLER W/ BOTTLE FILLING STATION



9 DETAIL - TYPICAL VERTICAL SANITARY RISER

DAVIS BOWEN & FRIEDEL, INC.
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MILFORD, DELAWARE 302 424 1444
SALISBURY, MARYLAND 410 543 9091

ENGINEER

Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-8688
WO# 24038

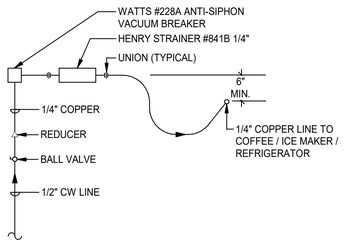
SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

No.	Date	Description

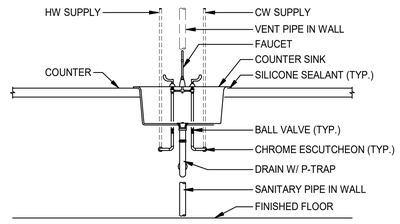
Date: JANUARY 23, 2026
Scale: 1/8" = 1'-0"
Dwn.By: RAK
Proj.No.: 24038

DETAILS
PLUMBING

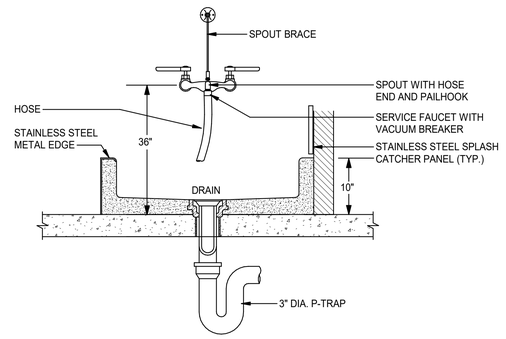
Dwg.No.: P302



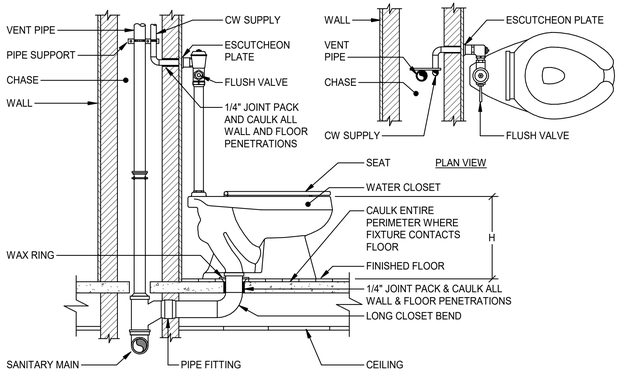
1 DETAIL - CW CONNECTION TO COFFEE MAKER, ICE MAKER



2 DETAIL - TYPICAL COUNTER MOUNTED SINK



3 DETAIL - FLOOR MOUNTED MOP SINK

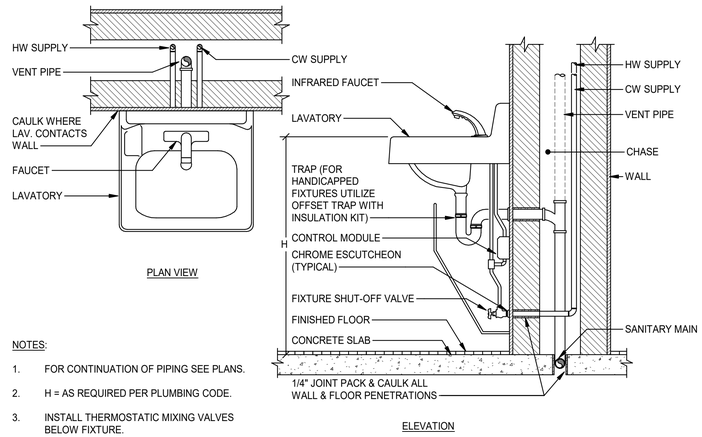


ELEVATION

NOTES:

1. FOR CONTINUATION OF PIPING SEE PLANS.
2. H = AS REQUIRED PER PLUMBING CODE.

4 DETAIL - SINGLE FLOOR MOUNTED WATER CLOSET (MECHANICAL FLUSH VALVE)

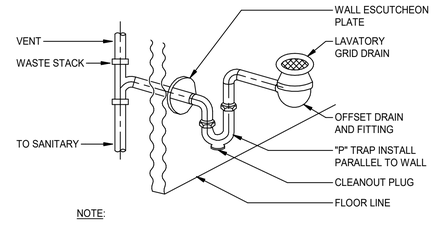


ELEVATION

NOTES:

1. FOR CONTINUATION OF PIPING SEE PLANS.
2. H = AS REQUIRED PER PLUMBING CODE.
3. INSTALL THERMOSTATIC MIXING VALVES BELOW FIXTURE.

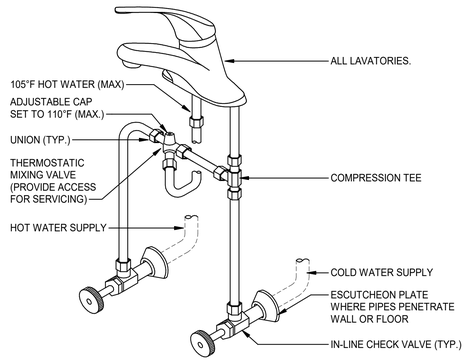
5 DETAIL - SINGLE WALL MOUNTED LAVATORY (INFRARED FAUCET)



NOTE:

1. ALL EXPOSED WASTE, CW, & HW PIPING BELOW LAVATORY TO BE FULLY INSULATED

6 DETAIL - HANDICAPPED LAVATORY / SINK OFF-SET DRAIN



7 DETAIL - TYPICAL INSTALLATION FOR THERMOSTATIC MIXING VALVES

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ARCHITECTS ENGINEERS SURVEYORS
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SALISBURY, MARYLAND 410 543 9091

ENGINEER

Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-8688
WO# 24038

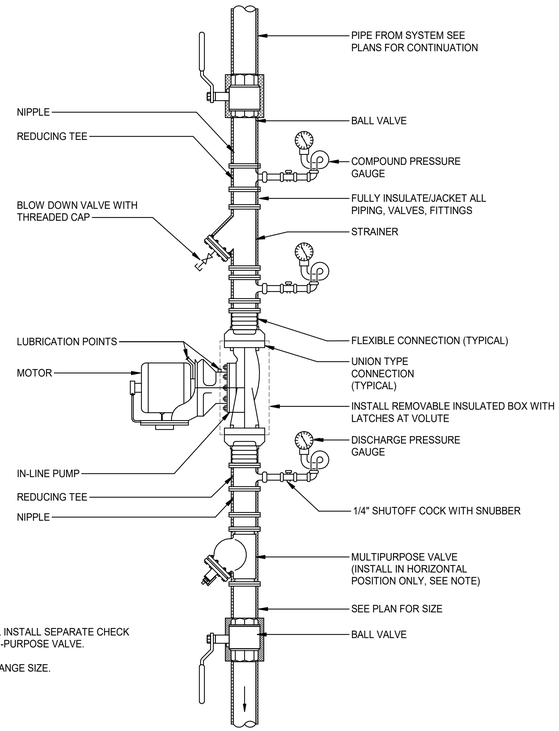
SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

No.	Date	Description

Date: JANUARY 23, 2026
Scale: 1/8" = 1'-0"
Dwn.By: RAK
Proj.No.: 24038

DETAILS PLUMBING

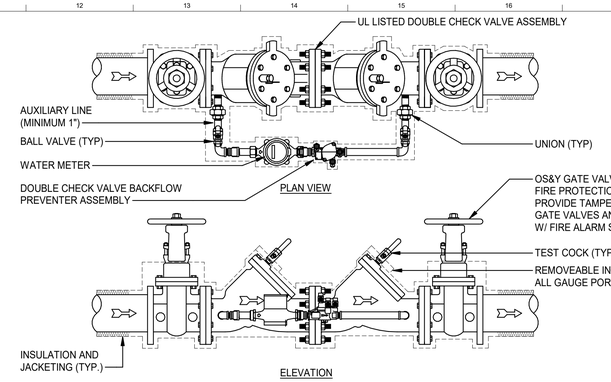
Dwg.No.: P303



NOTES:

1. IF PRIMARY PIPING LESS THAN 1-1/2", THEN CONTRACTOR SHALL INSTALL SEPARATE CHECK VALVE, SHUT-OFF VAVLE, AND BALANCE VALVE IN LIEU OF MULTI-PURPOSE VALVE.
2. PIPES, VALVES AND FITTINGS SHALL BE LINE SIZE, NOT PUMP FLANGE SIZE.

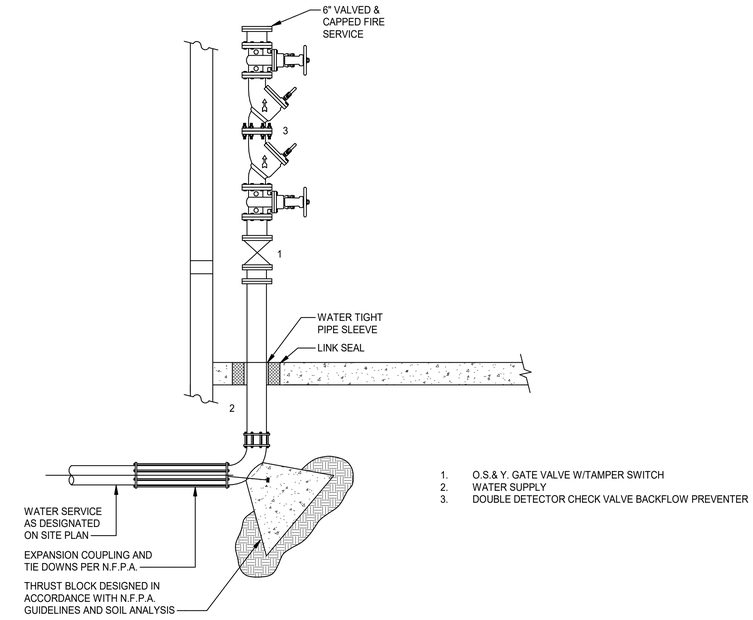
1 DETAIL - IN-LINE PUMP



NOTES:

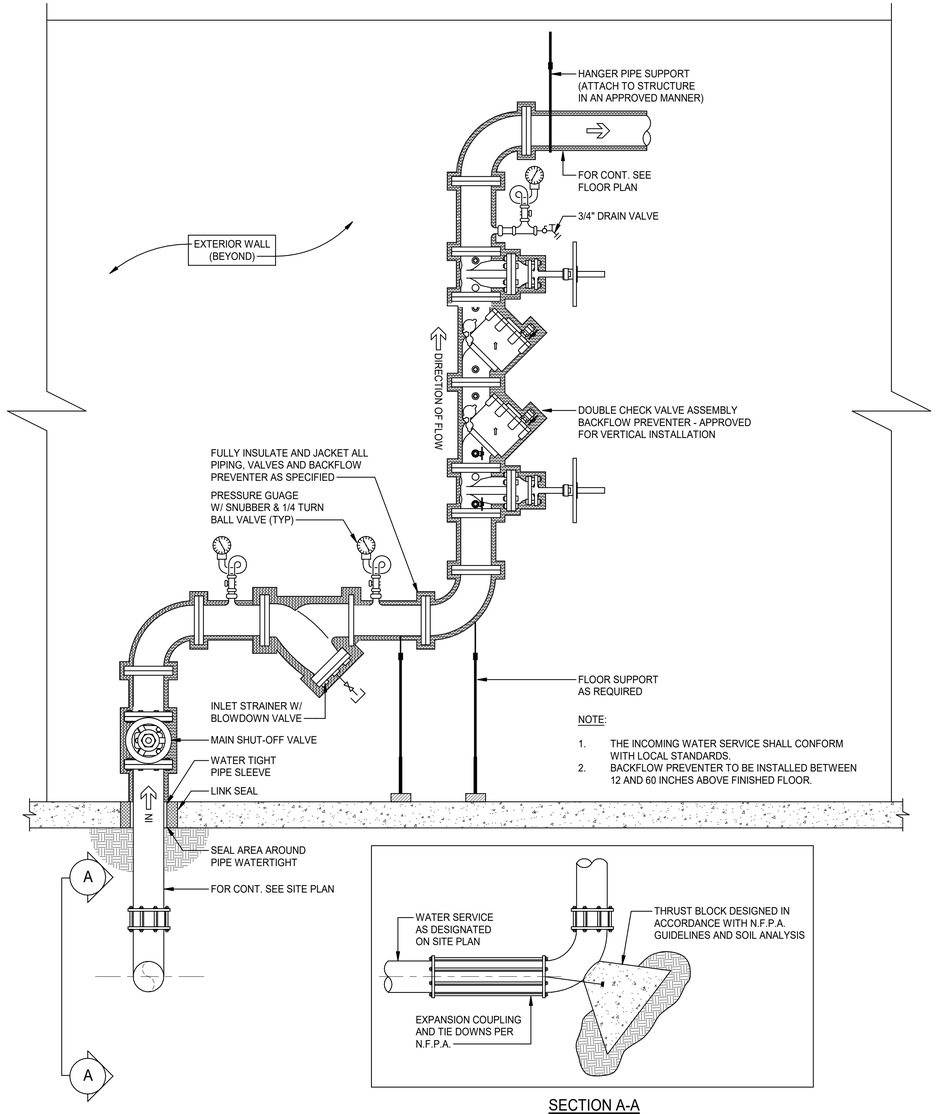
1. UNLESS OTHERWISE NOTED MOUNTING HEIGHT SHALL BE BETWEEN 12" AND 60" ABOVE THE FINISHED FLOOR.
2. EXTERNALLY INSULATE AS SPECIFIED, PROVIDE REMOVABLE INSULATION COVERS FOR TEST PORTS.
3. FIRE ALARM AND POWER WIRING FOR TAMPER SWITCHES SHALL BE INSTALLED UNDER DIVISION 28.
4. WHERE BACKFLOW PREVENTER IS INSTALLED VERTICALLY THE BFP SHALL BE LISTED FOR VERTICAL SERVICE.

2 DETAIL - DOUBLE DETECTOR CHECK VALVE ASSEMBLY



1. O.S.& Y. GATE VALVE W/TAMPER SWITCH
2. WATER SUPPLY
3. DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER

3 DETAIL - SPRINKLER INCOMING WATER SERVICE



NOTE:

1. THE INCOMING WATER SERVICE SHALL CONFORM WITH LOCAL STANDARDS.
2. BACKFLOW PREVENTER TO BE INSTALLED BETWEEN 12 AND 60 INCHES ABOVE FINISHED FLOOR.

SECTION A-A

4 DETAIL - INCOMING DOMESTIC WATER SERVICE

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS ENGINEERS SURVEYORS
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MILFORD, DELAWARE 302 424 1444
SALISBURY, MARYLAND 410 543 9091

ENGINEER

Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-8688
WO# 24038

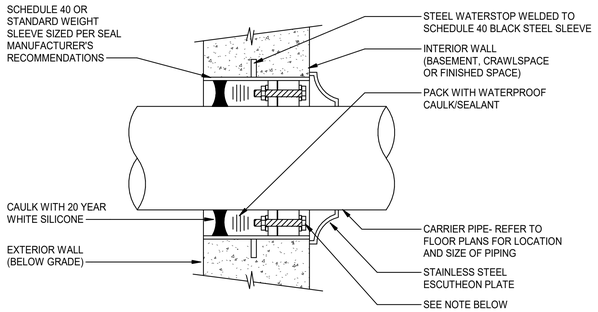
SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

No.	Date	Description

Date: JANUARY 23, 2026
Scale: 1/8" = 1'-0"
Dwn.By: RAK
Proj.No.: 24038

DETAILS PLUMBING

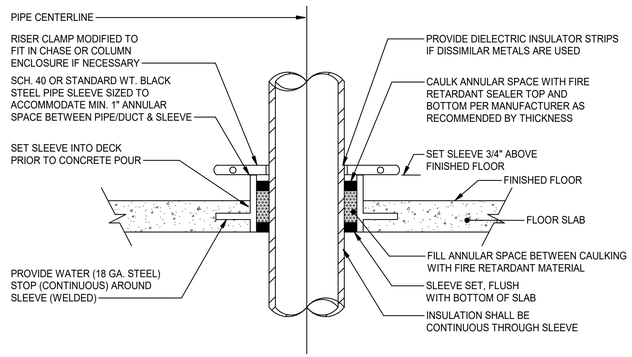
Dwg.No.: P304



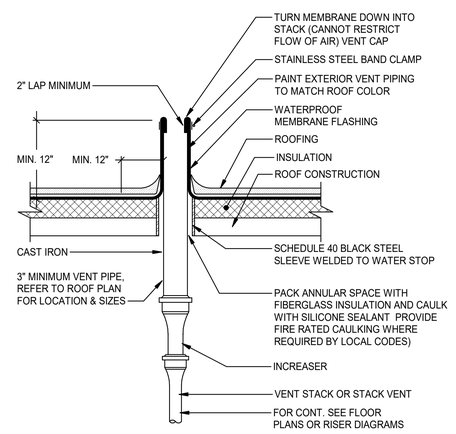
NOTE:

1. SEAL ASSEMBLY SHALL BE MODULAR MECHANICAL TYPE CONSISTING OF INTERLOCKING RUBBER LINKS SHAPED TO CONTINUOUSLY FILL THE ANNULAR SPACE BETWEEN THE CARRIER PIPING AND THE SLEEVE. BOLTS SHALL BE STAINLESS STEEL WITH DELRIN PLASTIC PRESSURE PLATES.

1 DETAIL - TYPICAL WATERTIGHT SLEEVE THRU EXTERIOR WALL (BELOW GRADE)

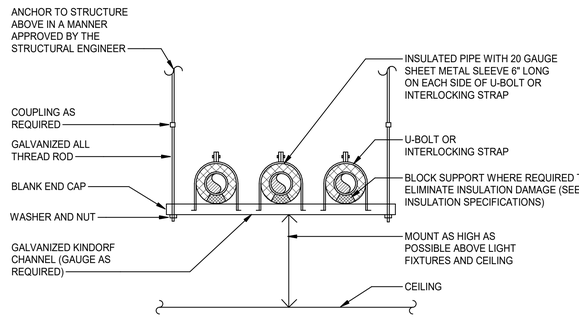


2 DETAIL - TYPICAL PIPE SLEEVE THRU INTERIOR FLOOR



3 DETAIL - TYPICAL VENT THRU ROOF

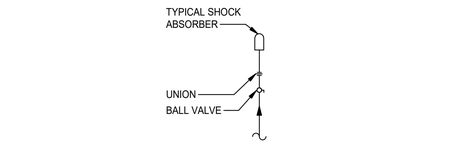
4 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT



NOTES:

1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. COORDINATE CROSS PIPING WITH MECHANICAL PIPING ROUTED IN CORRIDORS & SPRINKLER PIPING MAINS CROSSING IN CORRIDORS.

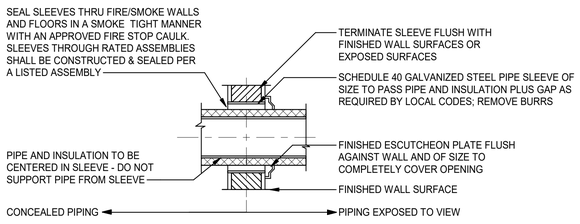
5 DETAIL - TYPICAL TRAPEZE PIPING SUPPORT



NOTE:

1. REFER TO DOMESTIC WATER RISER DIAGRAM FOR "PDI" SIZE CLASSIFICATION

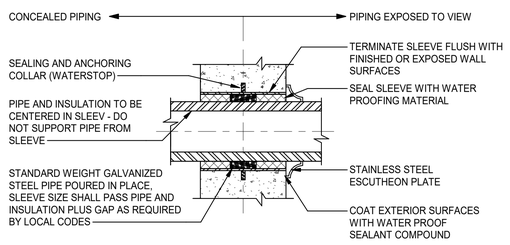
6 DETAIL - TYPICAL SHOCK ABSORBER



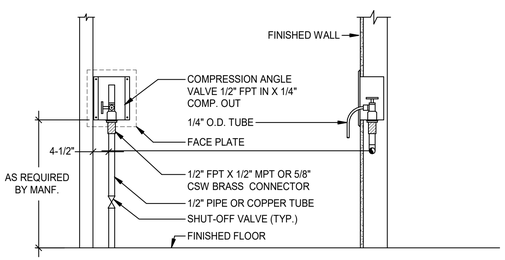
NOTE:

1. FOR INTERIOR FRAME PARTITIONS - PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET METAL; ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPIRAL SEAMS, OR WELDED LONGITUDINAL JOINT. FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SMALLER, 20 GAUGE; 4" TO 6", 16 GAUGE; OVER 6", 14 GAUGE.

7 DETAIL - TYPICAL PIPE SLEEVE THRU INTERIOR WALL



8 DETAIL - TYPICAL PIPE SLEEVE THRU EXTERIOR WALL (ABOVE GRADE)



NOTE:

1. INSTALLATION HEIGHT MAY VARY WITH EACH MANUFACTURER

9 DETAIL - REFRIGERATOR ICE MAKER / COFFEE MAKER WATER SUPPLY WALL OUTLET BOX

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SALISBURY, MARYLAND 410 543 9091

ENGINEER
Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-8688
WO# 24038

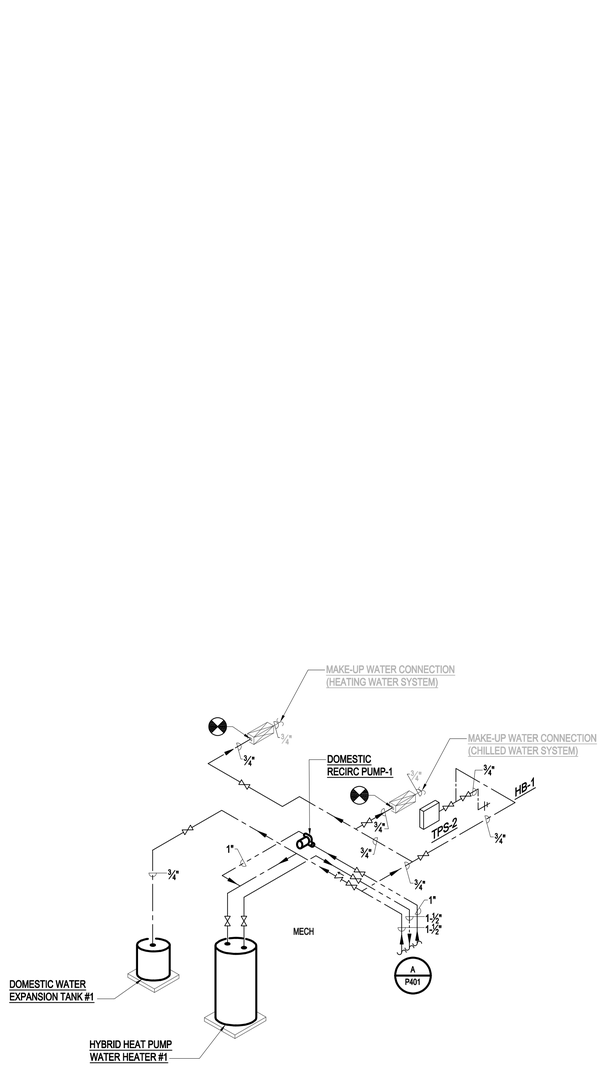
SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

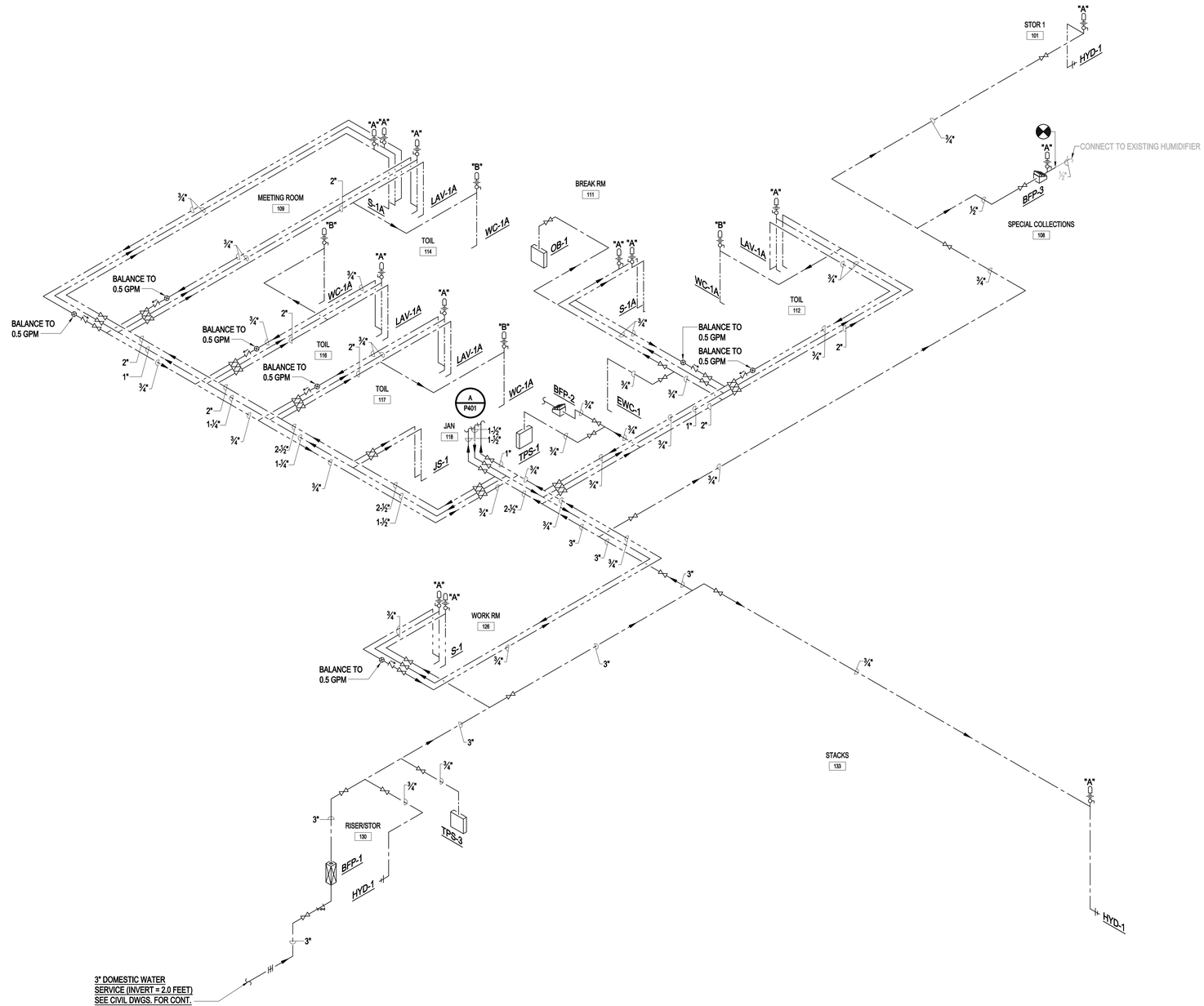
No.	Date	Description

Date: JANUARY 23, 2026
Scale: 1/8" = 1'-0"
Dwn.By: RAK
Proj.No.: 24038

DETAILS PLUMBING

Dwg.No.: P305





SYSTEM SUMMARY		
SYSTEM	FIXTURE UNITS	GPM
DOMESTIC WATER MAIN	58.25	53.3
DOMESTIC COLD WATER	54	51.6
DOMESTIC HOT WATER	12.75	16.4

DOMESTIC WATER RISER DIAGRAM

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026.

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS · ENGINEERS · SURVEYORS
EASTON, MARYLAND 410.770.4744
MILFORD, DELAWARE 302.424.1441
SALISBURY, MARYLAND 410.543.9091

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Gipe Associates Inc.
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8719 Brooks Drive
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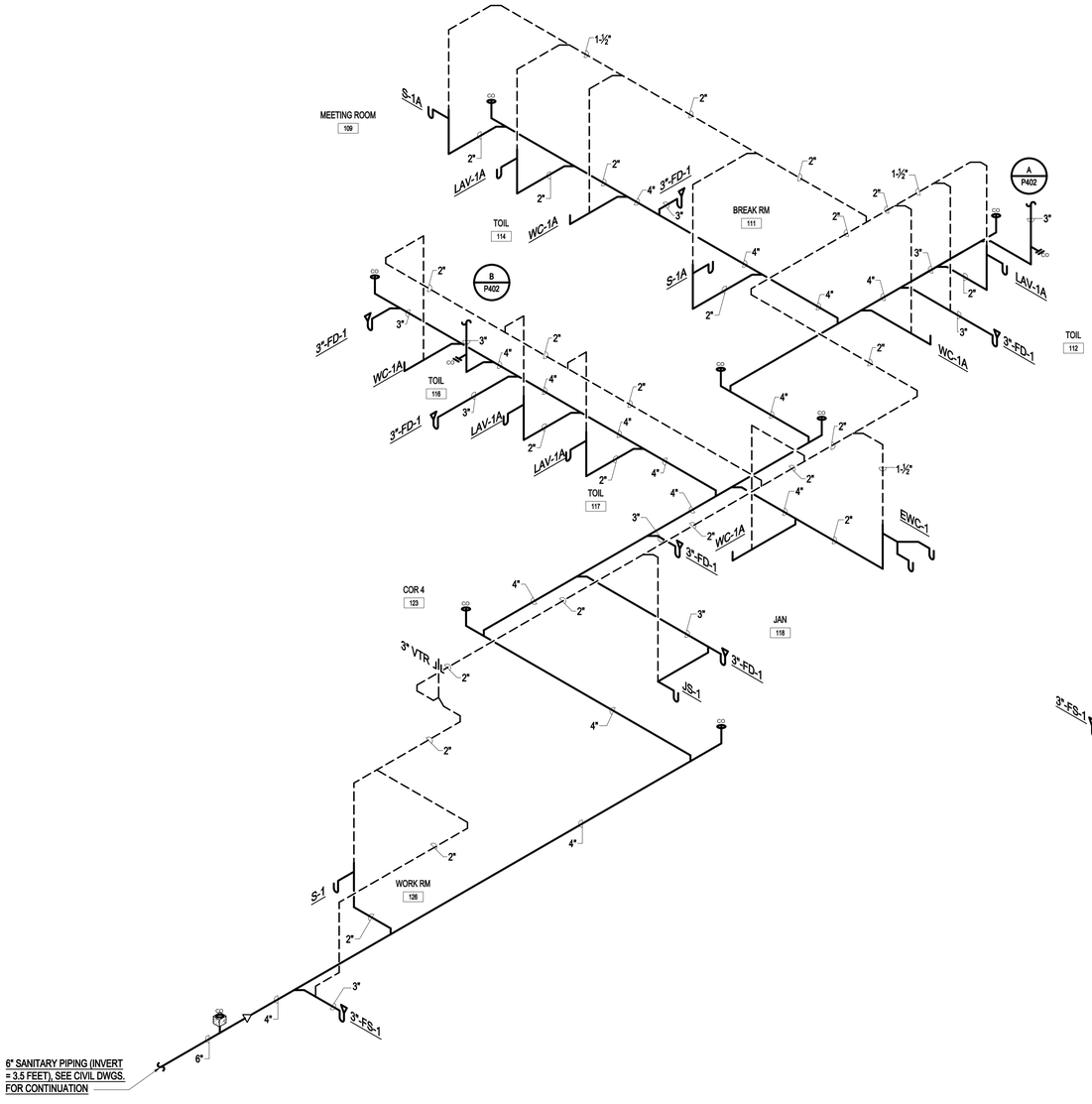
Phone (410) 822-8688
Fax (410) 822-6306
WO# 24038

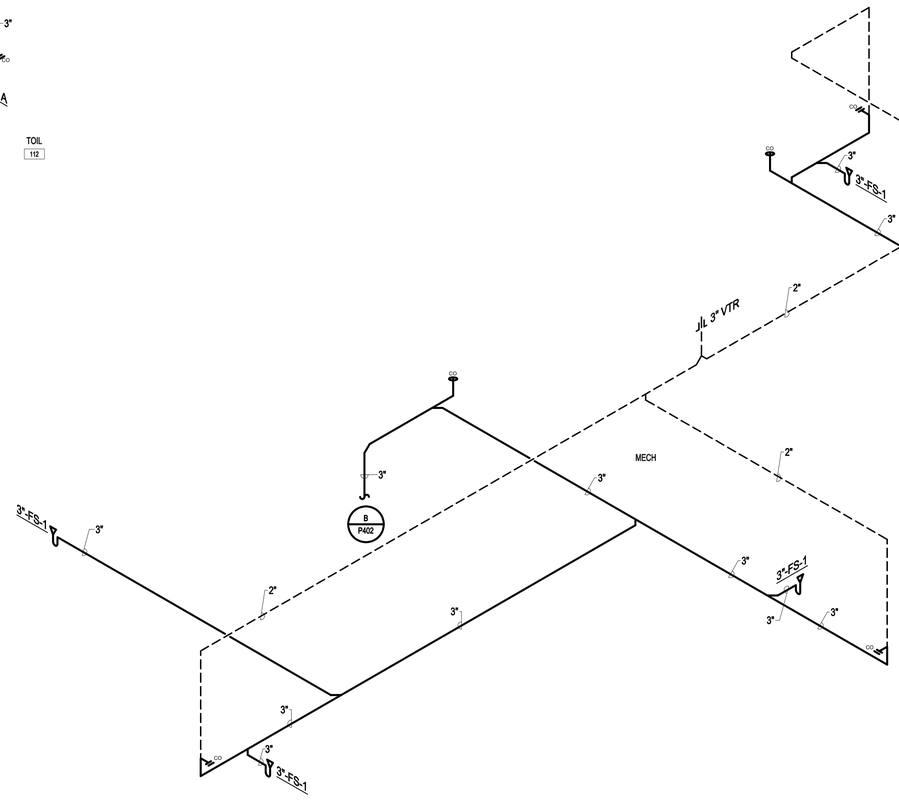
SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: RAK
Proj.No.: 0085B054.A01

RISERS
PLUMBING

Dwg.No.:
P401





SYSTEM SUMMARY	
SYSTEM	DRAINAGE FIXTURE UNITS
SANITARY AND VENT	33.5

SANITARY RISER DIAGRAM
NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

DAVIS BOWEN & FRIEDEL, INC.
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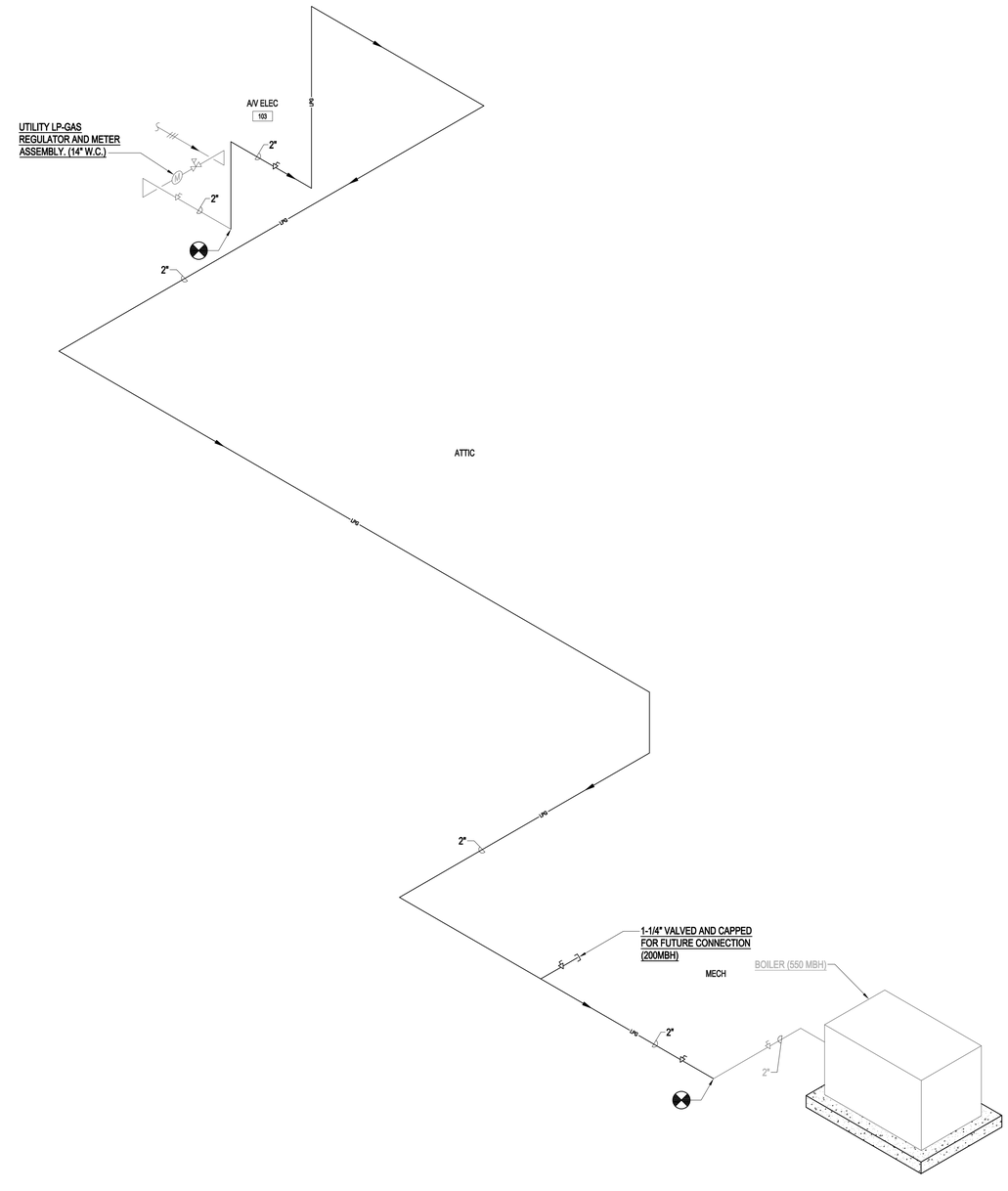
WO# 24038

SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: RAK
Proj.No.: 0085B054.A01

RISERS PLUMBING

Dwg.No.:
P402



GENERAL BUILDING PROPANE GAS SYSTEM
MINIMUM OF 14.0" W.G. DELIVERY PRESSURE DOWNSTREAM OF REGULATOR. PIPE SIZES BASED ON 0.5" W.C. PRESSURE DROP AND 150' TOTAL EQUIVALENT LENGTH

PROPANE GAS RISER DIAGRAM

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: RAK
Proj.No.: 0085B054.A01

RISERS PLUMBING

Dwg.No.: **P403**

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	TYPE	SAN. (INCHES)	VENT (INCHES)	CW (INCHES)	HW (INCHES)	FLOW RATE	ELEC. CHARACTERISTICS VOLTS	PHASE	HZ	REMARKS
WATERCLOSETS										
WC-1A	WATERCLOSET	4"	2"	1-1/4"	---	1.6 GALLONS PER FLUSH	---	---	---	FLOOR MOUNTED, EXPOSED MANUAL FLUSH VALVE, HANDICAPPED
LAVATORIES										
LAV-1A	LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"	0.35 GALLONS PER MINUTE	120	1	60	WALL HUNG, DECK MOUNTED, HARD-WIRED INFRARED SENSOR FAUCET, HANDICAPPED
MOP SINKS - SERVICE SINKS										
JS-1	MOP SINK	3"	2"	3/4"	3/4"	6.0 GALLONS PER MINUTE	---	---	---	FLOOR UNIT, 24"X24"
WATER COOLERS - FOUNTAINS										
EWC-1	ELECTRIC WATER COOLER	1-1/2"	1-1/4"	1/2"	---	1.0 GALLON PER MINUTE	120	1	60	DUAL HEIGHT, SURFACE MOUNTED, HANDICAPPED, BOTTLE FILLING STATION
COUNTER SINKS										
S-1	COUNTER SINK	1-1/2"	1-1/2"	1/2"	1/2"	2.2 GALLONS PER MINUTE	---	---	---	COUNTER MOUNTED, SINGLE BOWL, 15"X17.5"X10"
S-1A	COUNTER SINK	1-1/2"	1-1/2"	1/2"	1/2"	2.2 GALLONS PER MINUTE	---	---	---	COUNTER MOUNTED, SINGLE BOWL, 17"X16"X5.5", HANDICAPPED
OUTLET BOXES - WATER SUPPLY										
OB-1	REFRIGERATOR	---	---	1/2"	---	---	SEE ARCH. DWGS.			REFRIGERATOR PROVIDED UNDER ARCH. DIVISION. UNDER THIS DIVISION PROVIDE ROUGH-IN & FINAL CONNECTION TO ICE MAKER
OB-2	COFFEE MAKER	---	---	1/2"	---	---	SEE ARCH. DWGS.			COFFEE MAKER PROVIDED UNDER ARCH. DIVISION. UNDER THIS DIVISION PROVIDE ROUGH-IN & FINAL CONNECTION OF CW LINE TO COFFEE MAKER
HOSE BIBBS - HYDRANTS										
HB-1	HOSE BIBB	---	---	3/4"	---	2.5 GALLONS PER MINUTE	---	---	---	
HYD-1	WALL HYDRANT - EXTERIOR	---	---	3/4"	---	2.5 GALLONS PER MINUTE	---	---	---	KEY OPERATED W/ HINGED LOCKING COVER. NON-FREEZE TYPE
FLOOR DRAINS										
FD-1	FLOOR DRAIN	VARIES	---	---	---	---	---	---	---	CAST IRON, BOTTOM OUTLET, NICKLE BRONZE ROUND STRAINER, TRAP PRIMING CONNECTION
FLOOR SINKS										
FS-1	FLOOR SINK	VARIES	---	---	---	---	---	---	---	8" SQUARE X 6" DEEP SANITARY FLOOR SINK, TRAP PRIMING CONNECTION

HYBRID HEAT PUMP ELECTRIC DOMESTIC WATER HEATER SCHEDULE

UNIT #	STORAGE CAPACITY (GALLONS)	ELECTRIC RESISTANCE ELEMENTS NO. ELEMENTS	WATTS PER ELEMENT	RECOVERY (GPH)	HEAT PUMP MINIMUM INPUT WATTS	ENERGY FACTOR (UEF)	RECOVERY (GPH)	INLET TEMP (DEGREES FARENHEIT)	OUTLET TEMP (DEGREES FARENHEIT)	ELECTRICAL VOLTAGE	PHASE	HERTZ	REMARKS
1	50	2	4500	30	2000	3.68	30	60	120	208	1	60	

NOTES: 1. OPERATING AIR TEMPERATURE SHALL BE 45 DEGREES FARENHEIHT TO 120 DEGREES FARENHEIT AMBIENT WHEN HEAT PUMP IS ENERGIZED.
2. OPERATING AIR TEMPERATURE SHALL BE 32 DEGREES FARENHEIHT TO 150 DEGREES FARENHEIT AMBIENT WHEN STRAIGHT ELECTRIC RESISTANCE IS ENGERGIZED WITHOUT HEAT PUMP ASSIST.
3. ELEMENTS ARE NON-SIMULTANEOUS OPERATION.

BACKFLOW PREVENTER SCHEDULE

NO.	SERVICE	LINE SIZE (in)	MAX. PRESSURE DROP (psig)	FLOW (gpm)	REMARKS
1	INCOMING DOMESTIC WATER	3	5	80	VERTICAL DOUBLE CHECK VALVE
2	CHEMICAL DISPENSER	3/4	5	5	REDUCED PRESSURE PRINCIPLE TYPE
3	ELECTRIC HUMIDIFIER	1/2	5	2	DOUBLE CHECK VALVE TYPE
4	FIRE PROTECTION SERVICE	6	5	500	DOUBLE DETECTOR CHECK VALVE TYPE

DOMESTIC RECIRCULATING PUMP SCHEDULE

NO.	SERVICE	GPM	HEAD (FT.)	MAX BHP	MOTOR HP	RPM	VOLTAGE	PHASE	TYPE	REMARKS
1	DOMESTIC HOT WATER	5	15	---	1/25	3250	120	1	IN-LINE CARTRIDGE CIRCULATOR	ALL BRONZE OR STAINLESS STEEL CONSTRUCTION

DOMESTIC WATER EXPANSION TANK SCHEDULE

TANK #	WATER HEATER / STORAGE TANK VOLUME (GALLONS)	MAX. TEMP (°F)	MAX. OPERATING PRESSURE, Po (PSIG)	DESIGN FILL PRESSURE, Pf (PSIG)	TOTAL TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MAX. TANK DIMENSIONS HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX. OPERATING WEIGHT (LBS.)	REMARKS
1	50	140	5	35	2.6	1.7	12	12	62	

TRAP PRIMING STATION SCHEDULE

UNIT #	ELEC. CHARACTERISTICS AMPS	VOLTAGE	PHASE	REMARKS
1	5	120	1	MINI
2	5	120	1	MINI
3	5	120	1	MINI

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

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SCHEDULES PLUMBING

Dwg.No.: **P501**

MECHANICAL ABBREVIATIONS

ABBREV.	DEFINITION	ABBREV.	DEFINITION
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISHED GRADE	LBS	POUNDS
AHU	AIR HANDLING UNIT	LF	LINEAR FOOT
APD	AIR PRESSURE DROP	LFT	LEAVING FLUID TEMPERATURE
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECTURAL	MAX	MAXIMUM
BLHP	BOILER HORSEPOWER	MBH	BTU PER HOUR (THOUSAND)
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS/HOUR	MOCP	MAX. OVERCURRENT PROTECTION
C	CLOSED	MOD	MOTORIZED DAMPER
CAP	CAPACITY	NC	NORMALLY CLOSED
CCMS	CENTRAL CONTROL MONITORING STATION	NO	NORMALLY OPEN
CCW	COUNTER CLOCKWISE	NC	NOISE CRITERIA
CFM	CUBIC FEET PER MINUTE	NO/#	NUMBER
CONT	CONTINUATION	OA	OUTSIDE AIR
COP	COEFFICIENT OF PERFORMANCE	OAF	OUTSIDE AIR FAN
CUH	CABINET UNIT HEATER	OAT	OUTSIDE AIR TEMPERATURE
CUR	CURTAIN	OED	OPEN END DUCT
CW	CLOCKWISE	PD	PRESSURE DROP
CHWR	CHILLED WATER RETURN	PSI	POUNDS PER SQUARE INCH
CHWS	CHILLED WATER SUPPLY	RA	RETURN AIR
DB	DRY BULB	RAF	RETURN AIR FAN
DC	DUCT HEATING COIL (HYDRONIC)	RE-CIRC	RECIRCULATING
DD	DUCT DETECTOR	REG	REGISTER
DEPT	DEPARTMENT	REQ'D	REQUIRED
DIFF	DIFFUSER	RH	ROOF HOOD
DN	DOWN	RH	RELATIVE HUMIDITY
DWG	DRAWING	RLF	RELIEF AIR FAN
EAT	ENTERING AIR TEMPERATURE	RM	ROOM
ECON	ECONOMIZER	RPM	REVOLUTIONS PER MINUTE
EDC	ELECTRIC DUCT COIL	SA	SUPPLY AIR
EER	ENERGY EFFICIENCY RATIO	SB	STAND-BY
EF	EXHAUST FAN	SECT	SECTION
EFF	EFFICIENCY	SENS	SENSIBLE
ELEC CHAR	ELECTRICAL CHARACTERISTICS	SF	SUPPLY AIR FAN
EQUIP	EQUIPMENT	SL	SOUND LINING
ERHP	ELECTRIC RADIANT HEAT PANEL	SP	STATIC PRESSURE
ERV	ENERGY RECOVERY VENTILATOR	SPC	STATIC PRESSURE CONTROLLER
ESP	EXTERNAL STATIC PRESSURE	SPLY	SUPPLY
EX	EXISTING	SQ	SQUARE
EXH	EXHAUST	SS	STAINLESS STEEL
EFT	ENTERING FLUID TEMPERATURE	STD	STANDARD
EWT	ENTERING WATER TEMPERATURE	STOR	STORAGE
°F	DEGREES FAHRENHEIT	SWT	SUPPLY WATER TEMPERATURE
FCU	FAN COIL UNIT	TEMP	TEMPERATURE
FLA	FULL LOAD AMPS	T-OA	OUTSIDE TEMPERATURE SENSOR
FPM	FEET PER MINUTE	TONS	TONS OF REFRIGERATION
FPP	FREEZE PROTECTION PUMP	TYP	TYPICAL
FT H2O	FEET WATER GAUGE	UH	UNIT HEATER
FTR	FINNED TUBE RADIATION	V	VOLTS
FZ	FREEZE STAT	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	VEL	VELOCITY
HC	HANDICAPPED	VF	VENTILATION FAN
HP	HEAT PUMP	VSD	VARIABLE SPEED DRIVE
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HPI	HEAT PUMP (INDOOR)	W/	WITH
HPO	HEAT PUMP (OUTDOOR)	WB	WET BULB
HWR	HEATING WATER RETURN	WG	WATER GAUGE
HWS	HEATING WATER SUPPLY	WPD	WATER PRESSURE DROP
HT	HEIGHT	WTR	WATER
HZ	HERTZ	%	PERCENT
IN H2O	INCHES WATER GAUGE	Ø	PHASE
IW	INDIRECT WASTE	DELTA P	PRESSURE DIFFERENCE
KW	KILOWATT	DELTA T	TEMPERATURE DIFFERENCE
L	LOUVER		

MECHANICAL LEGEND

SYMBOL	ABBREV.	DEFINITION
	SA	SUPPLY AIR DUCT UP,DOWN
	RA	RETURN AIR DUCT UP,DOWN
	EA	EXHAUST AIR DUCT UP,DOWN
	OA	OUTSIDE AIR DUCT UP,DOWN
		RECT. TO ROUND TRANSITION
		DUCT TRANSITION
		FLEXIBLE CONNECTION (DUCTWORK)
		FLEXIBLE DUCT
		FLEXIBLE DUCT
AMS	AMS	AIR MONITORING STATION
	SL	SOUND LINING
		ELBOW W/ TURNING VANES
		RADIUS ELBOW
	VD	MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
MOD	MOD	MOTOR OPERATED DAMPER
DD	DD	DUCT SMOKE DETECTOR
DPC	DPC	DIFFERENTIAL PRESSURE CONTROLLER
DPS	DPS	DIFFERENTIAL PRESSURE SENSOR
SPC	SPC	STATIC PRESSURE CONTROLLER
SPS	SPS	STATIC PRESSURE SENSOR
T	T'STAT	TEMPERATURE SENSOR WITH GUARD
HT	HIGH TEMP	HIGH TEMPERATURE SENSOR
H	HUMIDISTAT	RELATIVE HUMIDITY SENSOR WITH GUARD
CO	CO	CARBON MONOXIDE SENSOR
CO_2	CO_2	CARBON DIOXIDE SENSOR
AS		AQUASTAT
S		SWITCH
ATC	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
	UH	UNIT HEATER
	C.O.	BREECHING CLEANOUT
		BLIND FLANGE
		FLEXIBLE HOSE
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
HWS	HWS	HEATING WATER SUPPLY
HWR	HWR	HEATING WATER RETURN
CHWS	CHWS	CHILLED WATER SUPPLY
CHWR	CHWR	CHILLED WATER RETURN
CD	CD	A/C CONDENSATE DRAIN
LPG	LPG	PROPANE GAS PIPING
HSS	HSS	HUMIDIFIER STEAM SUPPLY
HCR	HCR	HUMIDIFIER CONDENSATE RETURN
#		DRAWING NOTE - DEMOLITION
#		DRAWING NOTE - NEW WORK
		SHUT-OFF VALVE
		GLOBE VALVE
		BALANCING VALVE
		FLOW METER FITTING
		MULTI-PURPOSE VALVE
		CHECK VALVE
		2-WAY MODULATING VALVE (ATC)
		PRESSURE REDUCING VALVE
		NEEDLE VALVE
		PRESSURE RELIEF OR SAFETY VALVE

SYMBOL	ABBREV.	DEFINITION
		STRAINER W/HOSE END DRAIN VALVE AND CAP
		HOSE END DRAIN VALVE
		MANUAL AIR VENT
		PRESSURE GAUGE W/NEEDLE VALVE AND SNUBBER
		COMB. SHUT-OFF/BALANCE VALVE WITH MEMORY (CIRCUIT SETTER)
		THERMOMETER
		UNION
		FLANGE
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		FLEXIBLE CONNECTION (PIPING)
		AUTOMATIC AIR VENT
FC		FLO-CONTROL VALVE
		BACKFLOW PREVENTER MAKE-UP WATER SYSTEM
		AUTOMATIC FLOW CONTROL VALVE
		PIPE ALIGNMENT GUIDE
		PIPE ANCHOR
		EXPANSION LOOP
		PIPE - TURN DOWN
		PIPE - TURN UP
		PIPE - BOTTOM TAKE OFF
		PIPE - TOP TAKE OFF
		SOLENOID VALVE (GAS,AIR,WATER)
		END CAP
		DIRECTION OF FLOW
FS	FS	FLOW SWITCH
		GAUGE VALVE
	CW	COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RECIRCULATING
	CX	CONNECT TO EXISTING
	RX	REMOVE EXISTING (ENDS HERE)
X / XX.X — PART PLAN NO. / DRAWING NO.		PART PLAN DESIGNATION
TYPE, CFM; SD1 CFM / ?X? 24X24; MODULE SIZE, NECK SIZE		SUPPLY AIR DEVICE TAG
TYPE, CFM; LSD1 CFM / 4 / 4 FT / ?" Ø; # OF SLOTS/ LENGTH/NECK SIZE		LINEAR DIFFUSER TAG
TYPE, CFM; SG1 CFM / ?X? / 8'-0" A.F.F.; NECK SIZE, ELEV. CENTER OF FACE		SIDEWALL AIR DEVICE TAG
TYPE, CFM; RG1 CFM / ?X? 24X24; MODULE SIZE, NECK SIZE		RETURN AIR DEVICE TAG
TYPE, CFM; RG1 CFM / ?X? 24X24; MODULE SIZE, NECK SIZE		EXHAUST AIR DEVICE TAG
TYPE, CFM; SLB1 CFM / ?X?; NECK SIZE		LINEAR BAR GRILLE TAG

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

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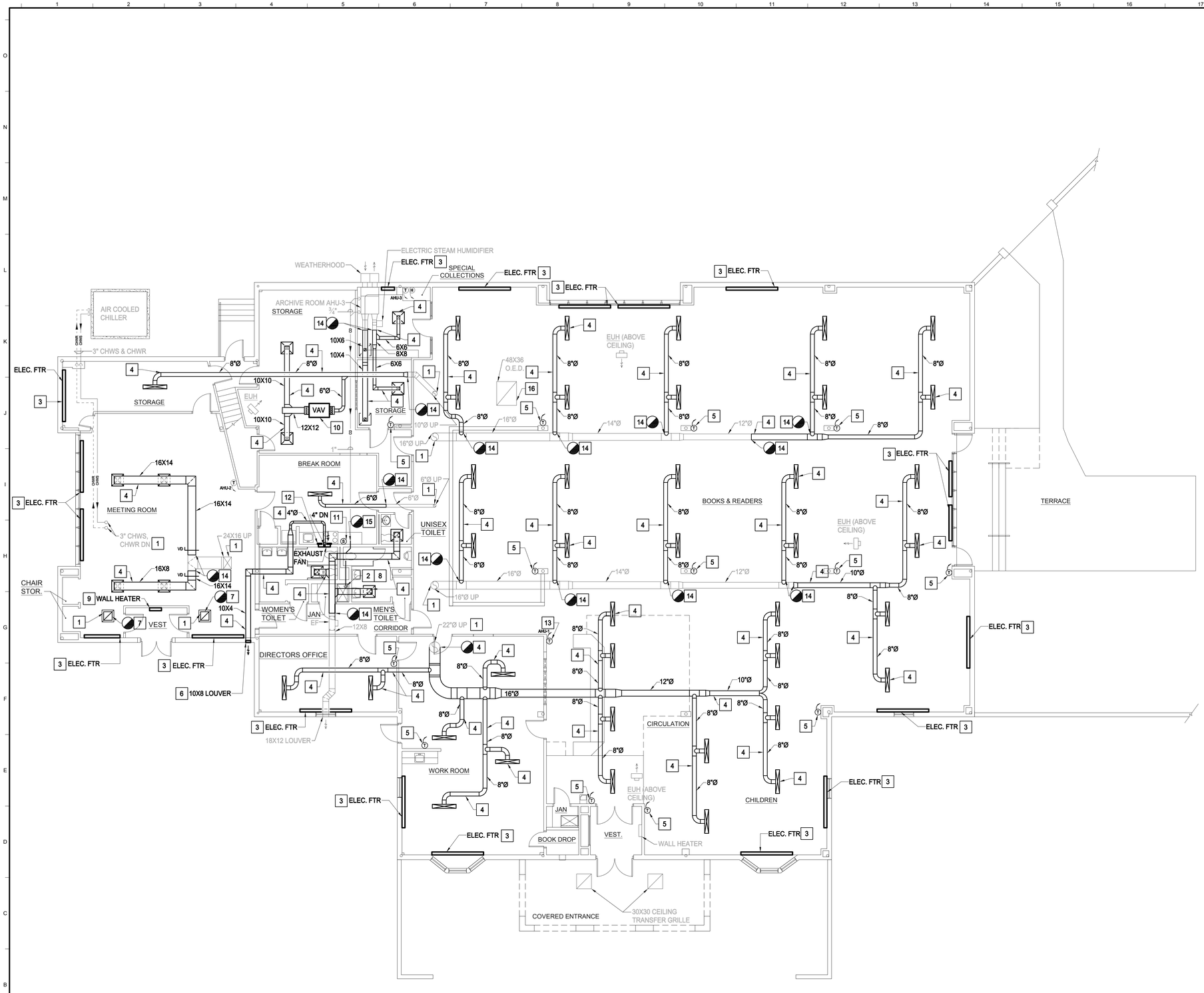
LEGEND AND ABBREVIATIONS HVAC

Dwg.No.: M001

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. FOR CONTINUATION UP SEE DWG. MD201.
2. 1" CONDENSATE DISCHARGE INTO MOP SINK.
3. REMOVE ELECTRIC FINNED TUBE RADIATOR, AND ASSOCIATED SUPPORTS, AND CONTROLS.
4. REMOVE ALL DUCT AND ASSOCIATED SUPPORTS, INSULATION AND AIR DEVICES.
5. REMOVE THERMOSTAT, AND ASSOCIATED CONTROL WIRING.
6. REMOVE LOUVER AND ALL ASSOCIATED DUCT.
7. REMOVE REGISTER AND ASSOCIATED DUCT WORK TO POINT INDICATED BELOW FLOOR ABOVE. TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
8. REMOVE CONDENSATE PIPING, AND ALL ASSOCIATED INSULATION AND SUPPORTS.
9. REMOVE WALL HEATER AND ALL ASSOCIATED WIRING, SUPPORTS AND CONTROLS.
10. REMOVE VAV BOX AND ALL ASSOCIATED DUCTWORK, INSULATION, CONTROLS, AND SUPPORTS.
11. REMOVE MANUAL SWITCH SERVING EXHAUST FAN, AND ALL ASSOCIATED WIRING.
12. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, CONTROLS AND SUPPORTS.
13. REMOVE, SALVAGE AND REINSTALL THERMOSTAT UNDER NEW WORK FOR ASSOCIATED AHU-1.
14. REMOVE DUCT TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
15. REMOVE PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
16. 48X36 R.A. DUCT UP, FOR CONTINUATION SEE MD102.



FIRST FLOOR PLAN - HVAC - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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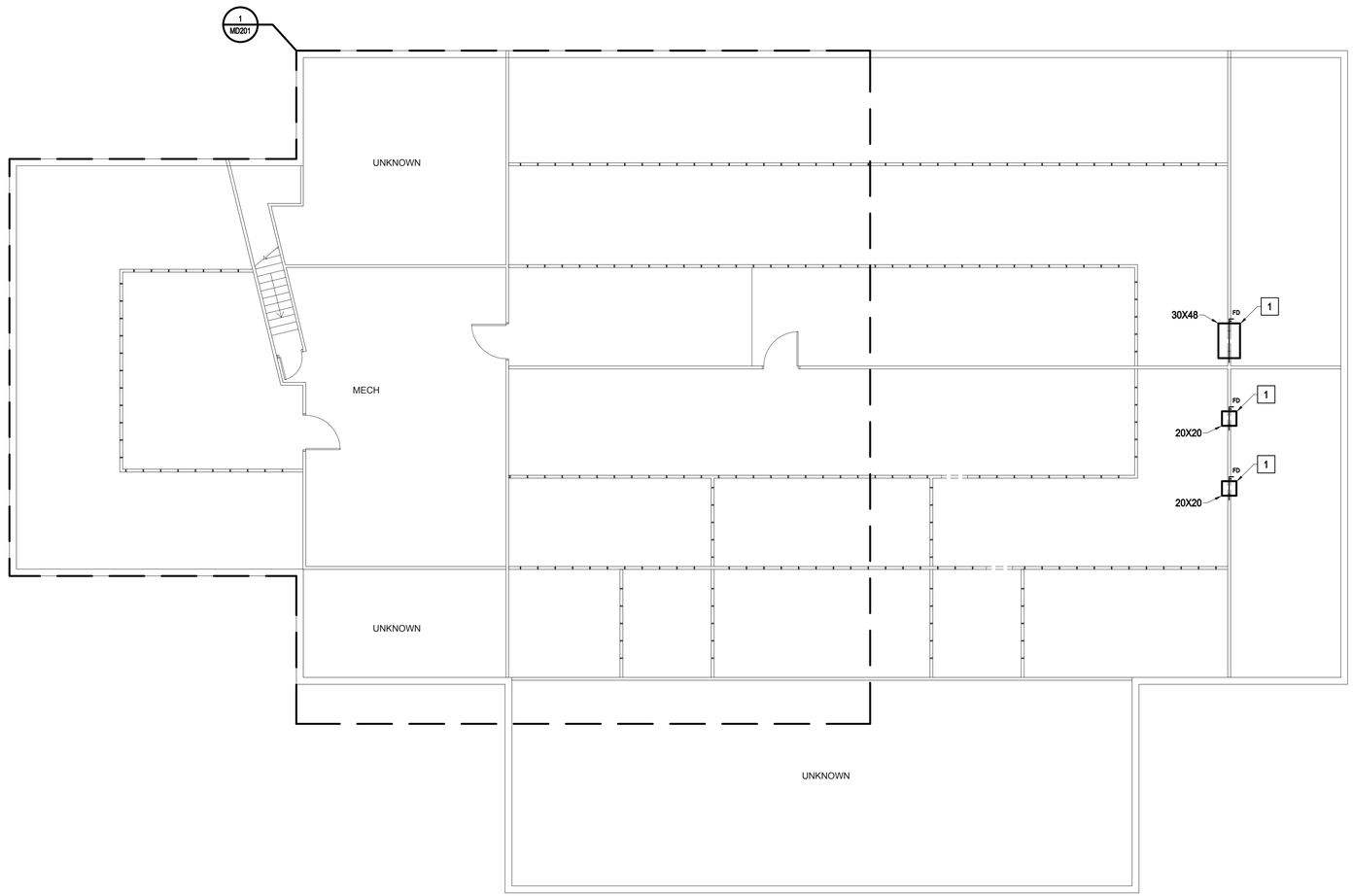
FIRST FLOOR PLAN HVAC DEMOLITION

Dwg.No.:

MD101

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1 REMOVE TRANSFER DUCT AND FIRE DAMPER.



ATTIC FLOOR PLAN - HVAC - DEMOLITION

N

KEY PLAN

N

SCALE: 1/8" = 1'-0"

8 0 8 16

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ATTIC FLOOR PLAN HVAC DEMOLITION

Dwg.No.:

MD102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. REMOVE EXHAUST FAN (INSTALLED IN ROOF) AND ALL ASSOCIATED DUCT, CONTROLS AND SUPPORTS.
2. REMOVE PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK. CHILLED WATER AND HEATING WATER MAKEUP WATER VALVE TRAINS SHOULD BE MAINTAINED. CONNECT TO DOMESTIC WATER SYSTEM UNDER NEW WORK.

UNKNOWN
42X30
48X36
48X36
10"Ø DN
FD
48X36 OPEN END DUCT THRU SLAB
16"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101.
18"Ø
EXPANSION TANK
1 14"Ø ATTIC EXHAUST FAN
36X24
MOD
AHU-1
DUCT HEATING COIL
36X36
1 14"Ø ATTIC EXHAUST FAN
MECH
20X12
CHILLED WATER PUMP #1
ATC
2"
6"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101.
1 14"Ø ATTIC EXHAUST FAN
3" CHWS AND CHWR, FOR CONTINUATION SEE MD101.
AHU-1
AIR SEPARATOR
BYPASS SHOT FEEDER
CHWS
CHWR
3"
HWR
HWS
14X8
24X12
CHILLED WATER PUMP #2
26"Ø
24X16 S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101
DUCT HEATING COIL
24X16
DN
AHU-2
24X12
24X24
CHILLED WATER MAKE-UP WATER CONNECTION
DUCT COIL PUMP
2
18X12
30X14
UP
BOILER
16"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101.
HEATING WATER MAKE-UP WATER CONNECTION
BYPASS SHOT FEEDER
AIR SEPARATOR
5 FEET A.F.F.
6"Ø BOILER FLUE AND INTAKE UP TO ROOF TERMINATION
CD NEUTRALIZER
18X18 R.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101
18X18 R.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101
DUCT COIL PUMP
EXPANSION TANK
BOILER PRIMARY PUMP
22"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101.
UNKNOWN
24X12
24X12 O.E.D.

1 MD201 PART PLAN - HVAC - DEMOLITION

KEY PLAN

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

4 0 4 8

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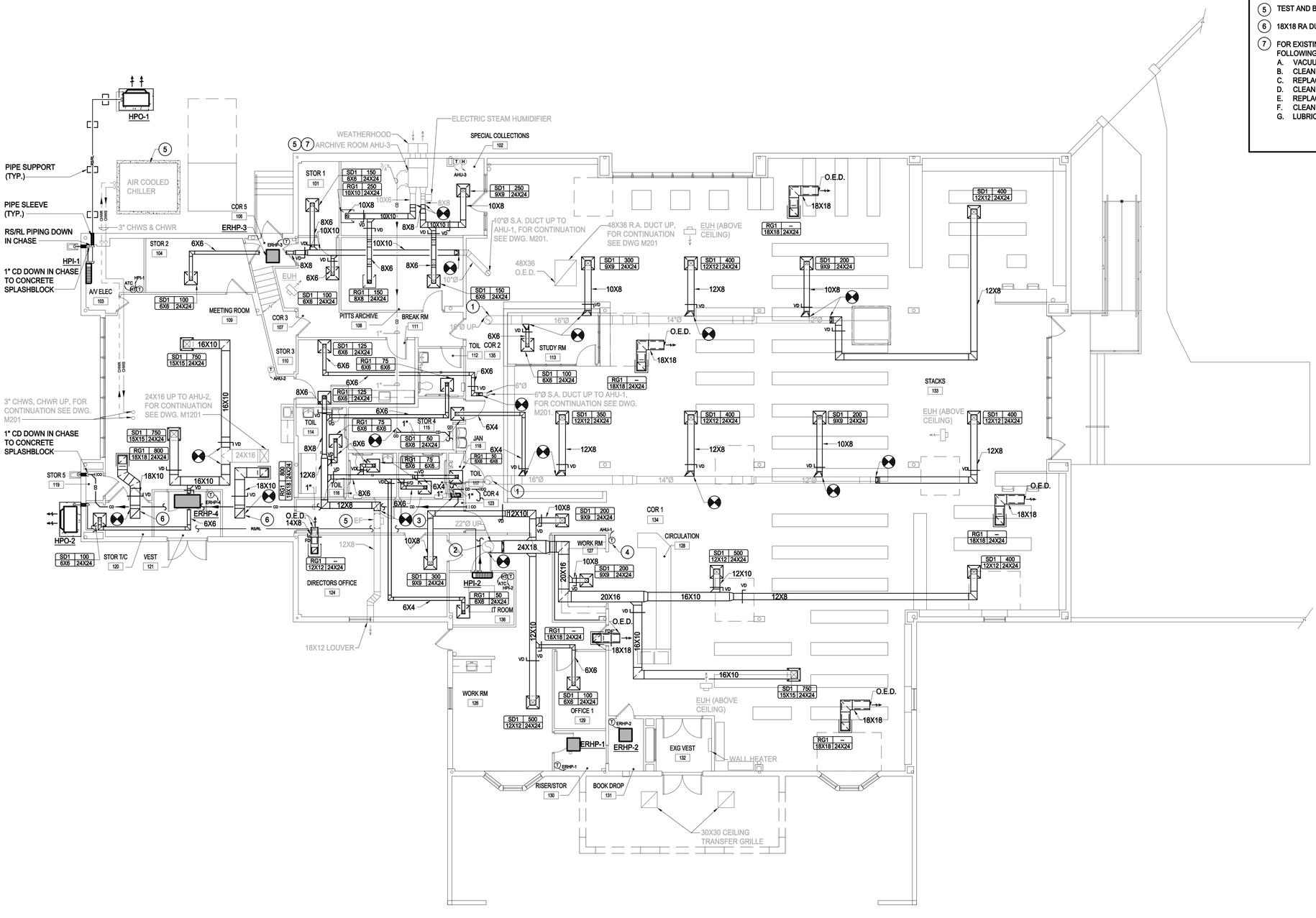
PART PLAN HVAC DEMOLITION

Dwg.No.: **MD201**

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. 16"Ø S.A. DUCT UP TO AHU-1, FOR CONTINUATION SEE DWG. M201.
2. 22"Ø S.A. DUCT UP TO AHU-1, FOR CONTINUATION SEE DWG. M201.
3. CONDENSATE PUMP #1
4. REINSTALL THERMOSTAT FOR AHU-1 AND INTERLOCK WITH AHU-1
5. TEST AND BALANCE EXISTING HVAC EQUIPMENT AS SPECIFIED.
6. 18X18 RA DUCT UP, FOR CONTINUATION SEE DWG. M201.
7. FOR EXISTING AIR HANDLING EQUIPMENT TO BE RE-UTILIZED PERFORM THE FOLLOWING WORK:
   - A. VACUUM INTERIOR OF UNIT.
   - B. CLEAN CONDENSER AND EVAPORATOR COILS.
   - C. REPLACE BELTS AND SHEAVES.
   - D. CLEAN DRAIN PANS.
   - E. REPLACE AIR FILTERS.
   - F. CLEAN FAN WHEELS.
   - G. LUBRICATE / CLEAN DAMPERS.



FIRST FLOOR PLAN - HVAC - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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WO# 24038

SNOW HILL LIBRARY RENOVATIONS
BID SET
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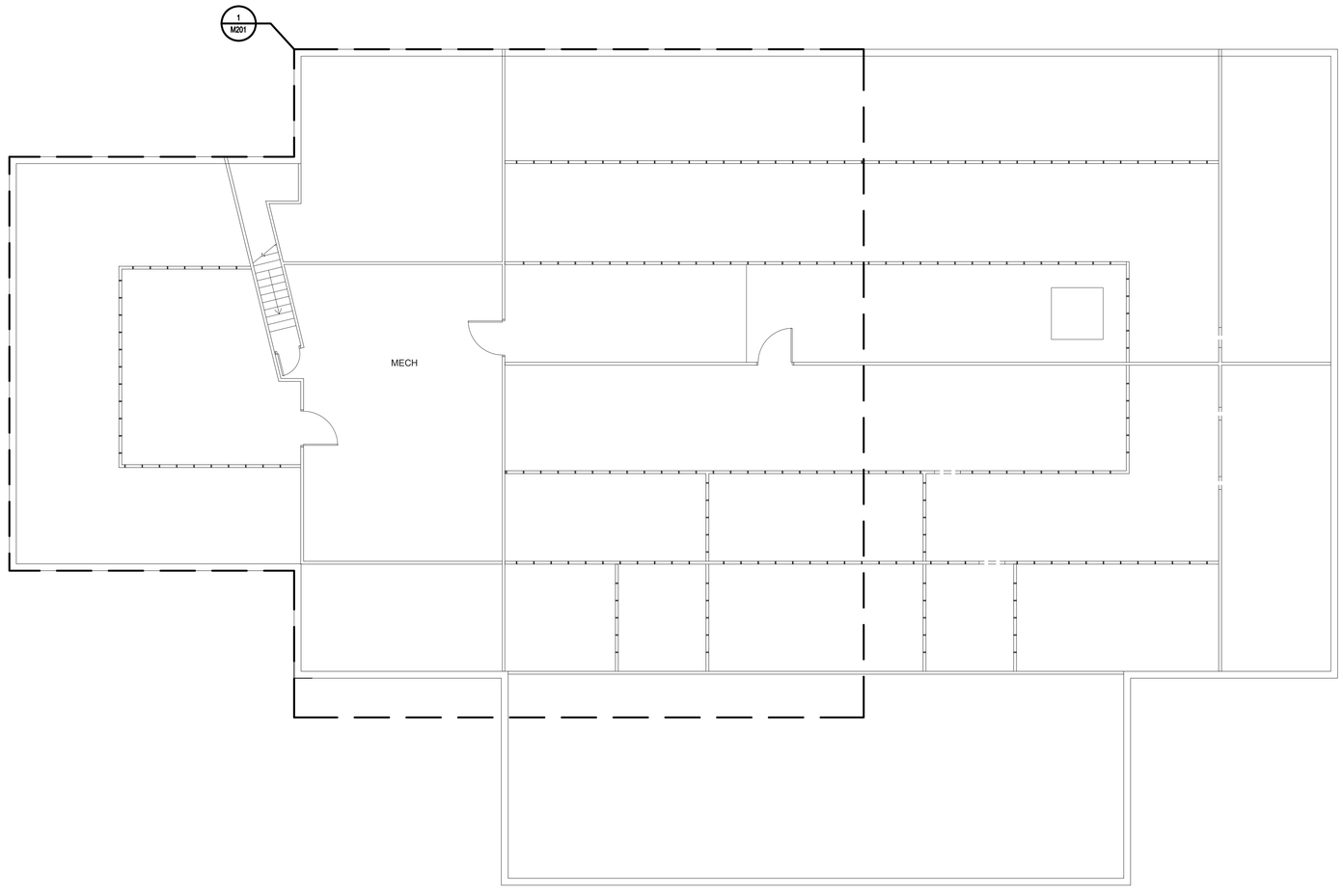
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: RAK
Proj.No.: 0085B054.A01

FIRST FLOOR PLAN HVAC NEW WORK

Dwg.No.: **M101**



ATTIC FLOOR PLAN - HVAC - NEW WORK

SCALE: 1/8" = 1'-0"

8 0 8 16

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ATTIC FLOOR PLAN HVAC NEW WORK

Dwg.No.:
M102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. TEST AND BALANCE EXISTING EQUIPMENT AS SPECIFIED.
2. FOR EXISTING AIR HANDLING EQUIPMENT TO BE RE-UTILIZED PERFORM THE FOLLOWING WORK:
   - A. VACUUM INTERIOR OF UNIT.
   - B. CLEAN COOLING AND HEATING COILS.
   - C. REPLACE BELTS AND SHEAVES.
   - D. CLEAN DRAIN PANS.
   - E. REPLACE AIR FILTERS.
   - F. PULL AND CLEAN STRAINERS ON HYDRONIC COILS.
   - G. CLEAN FAN WHEELS.
   - H. LUBRICATE / CLEAN DAMPERS.
3. REFER TO PLUMBING CONTRACT DRAWINGS FOR MAKEUP WATER PIPING.

UNKNOWN
10"Ø S.A. DOWN, FOR CONTINUATION SEE DWG. M101
42X30
48X36
48X36
48X36 OPEN END DUCT THRU SLAB, FOR CONTINUATION SEE DWG. M101
EXPANSION TANK
DUCT HEATING COIL (DHC-2)
16"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. M101.
18"Ø
ATC-1
ATC-2
ATC COMPUTER
36X24
AHU-1
36X36
MECH
20X12
CHILLED WATER PUMP #1
3" CWS, CWR PIPING DOWN, FOR CONTINUATION SEE M101.
VFD- AHU-1
AIR SEPARATOR
6"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. M101.
BYPASS SHOT FEEDER
14X8
24X16 S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101
DUCT HEATING COIL (DHC-2)
24X16
AHU-2
CHILLED WATER PUMP #2
24X12
24X24
CHILLED WATER MAKE-UP WATER CONNECTION
DUCT COIL PUMP
6"Ø BOILER FLUE AND INTAKE UP TO ROOF TERMINATION
16"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. M101.
18X12
30X14
18X12
HEATING WATER MAKE-UP WATER CONNECTION
BOILER
BYPASS SHOT FEEDER
AIR SEPARATOR
5 FEET A.F.F.
18X18 R.A. DUCT DOWN, FOR CONTINUATION SEE DWG. M101
18X18 R.A. DUCT DOWN, FOR CONTINUATION SEE DWG. M101
DUCT COIL PUMP
CD NEUTRALIZER
EXPANSION TANK
BOILER PRIMARY PUMP
22"Ø S.A. DUCT DOWN, FOR CONTINUATION SEE DWG. MD101.
UNKNOWN
24X12 O.E.D.

1 M201 PART PLAN - HVAC - NEW WORK

KEY PLAN

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

4 0 4 8

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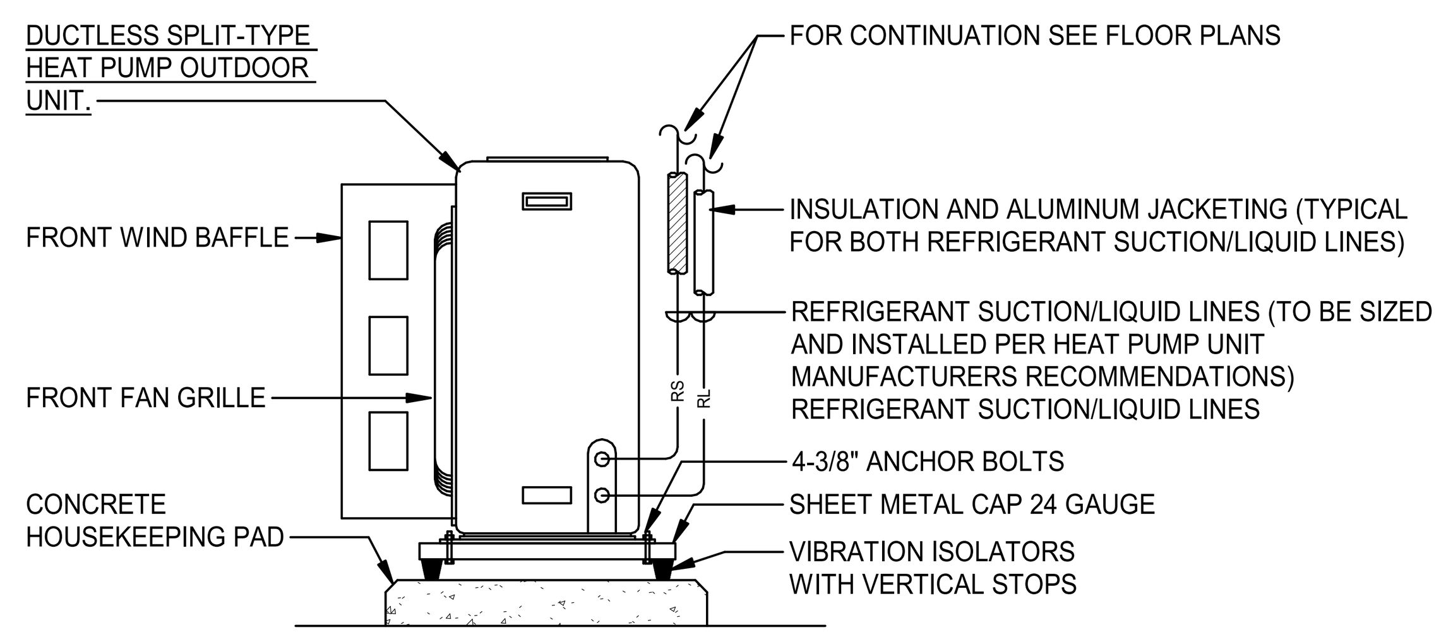
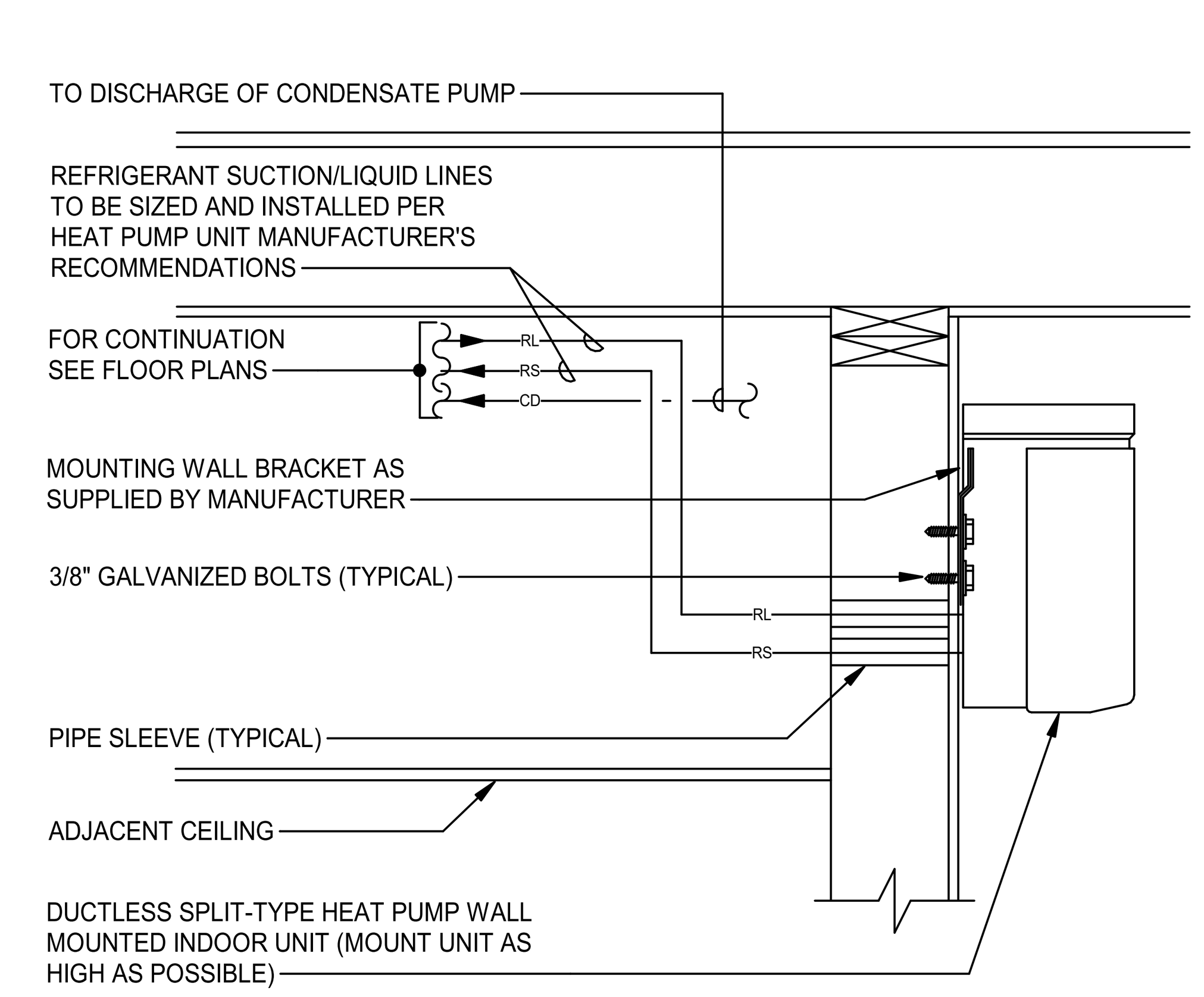
PART PLAN HVAC NEW WORK

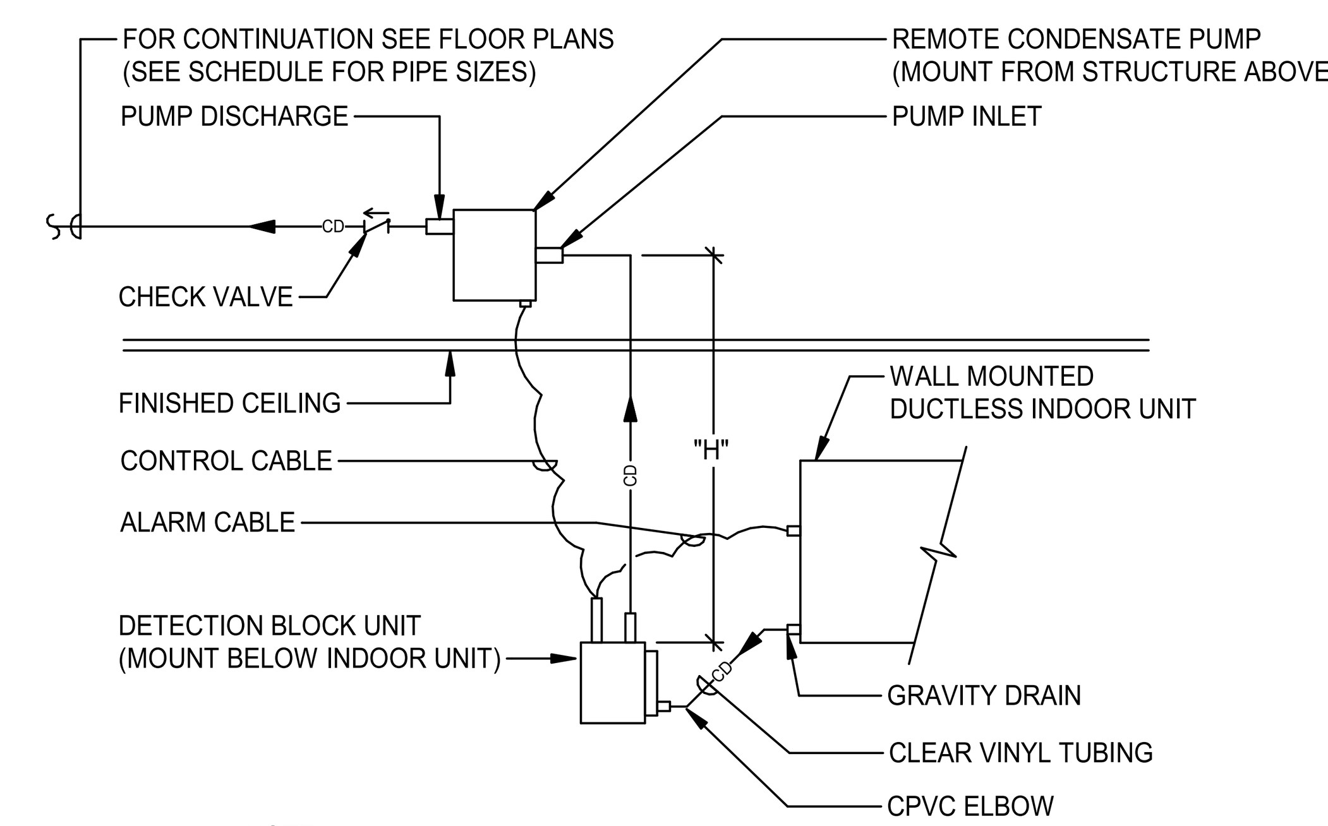
Dwg.No.: **M201**



1 DETAIL - GRADE MOUNTED OUTDOOR DUCTLESS SPLIT SYSTEM



INDOOR UNIT MOUNTING

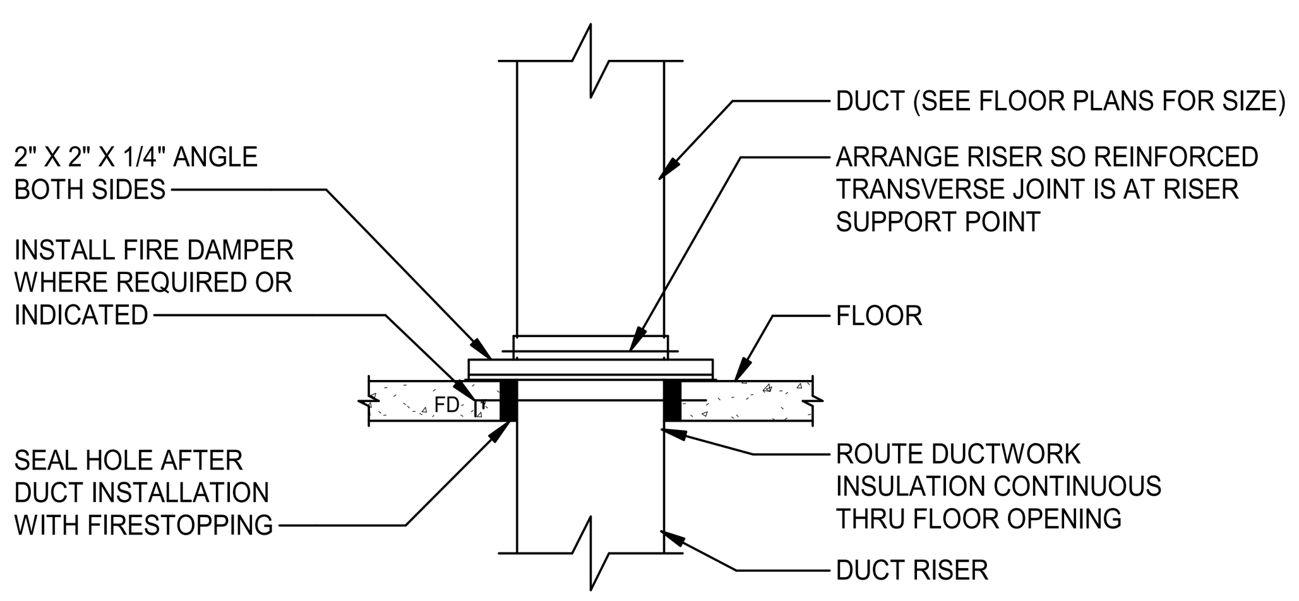


NOTE:

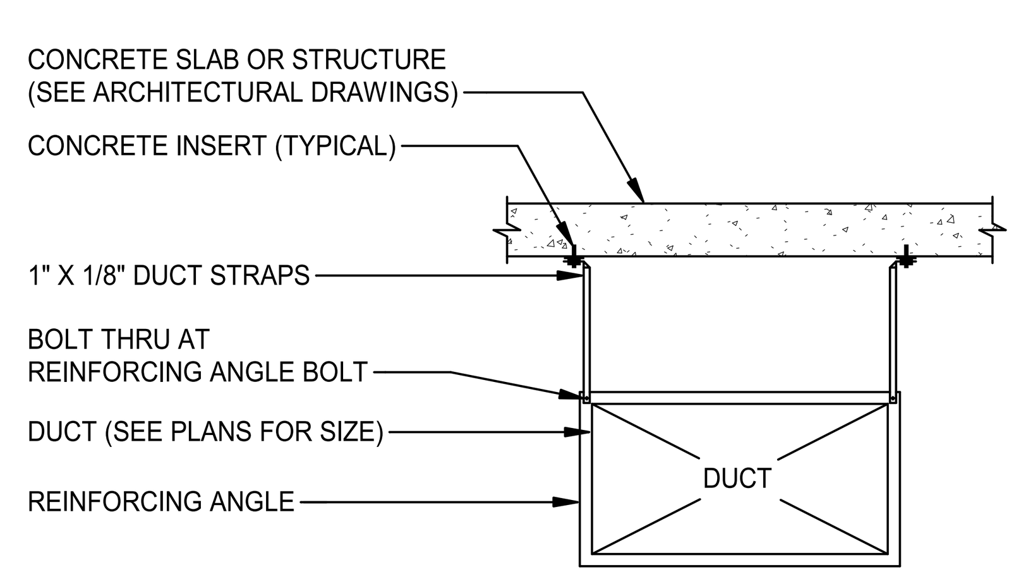
1. "H" SHALL NOT EXCEED 8 FT. OR PUMP SUCTION LIFT CAPACITY, WHICHEVER IS SMALLER.

REMOTE CONDENSATE PUMP MOUNTING

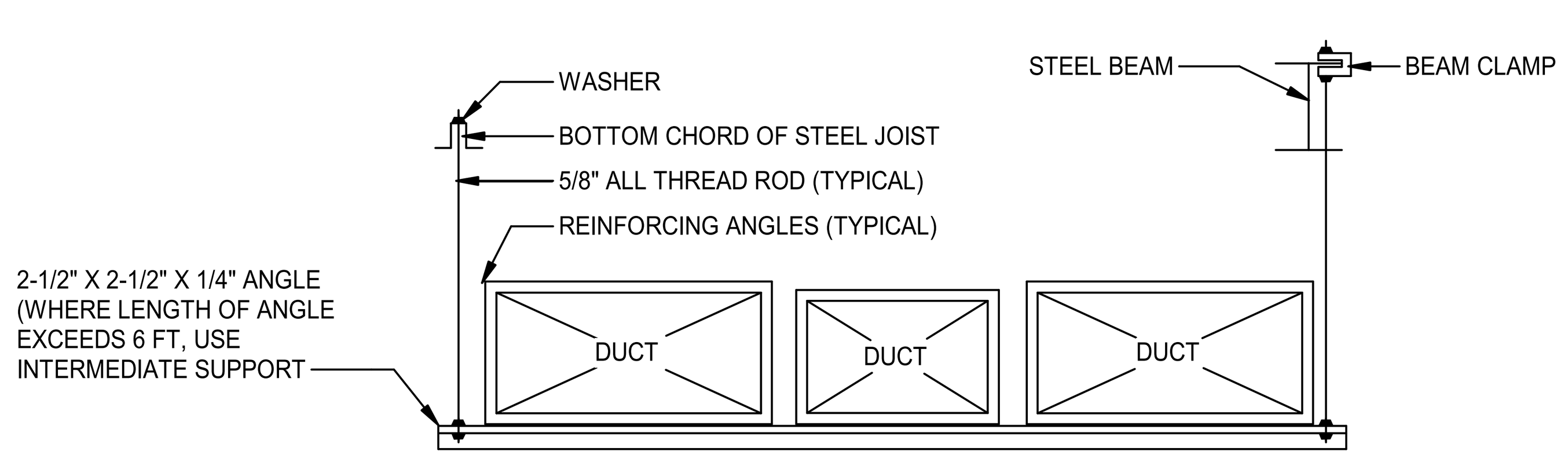
2 DETAIL - INDOOR WALL MOUNTED DUCTLESS SPLIT SYSTEM WITH GRADE MOUNTED OUTDOOR UNIT



RISER SUPPORT OR FLOOR PENETRATION



SINGLE RECTANGULAR DUCT



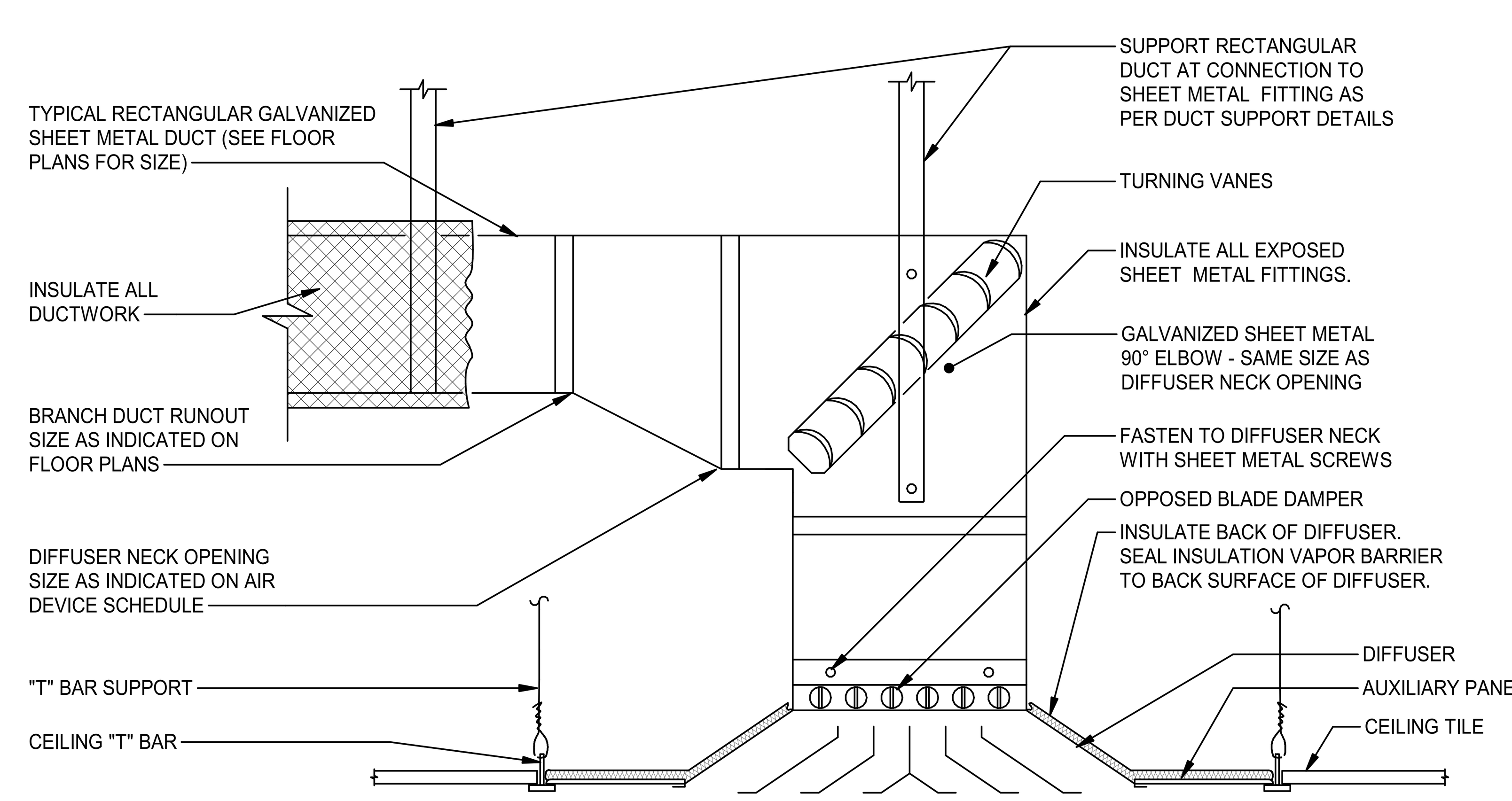
* USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER

MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

NOTE:

1. DUCTS SHALL BE SUPPORTED PER SMACNA STANDARDS

3 DETAIL - TYPICAL INSTALLATION OF HANGERS AND SUPPORTS FOR DUCTWORK



NOTES:

1. "T" BAR SUPPORT WIRES SHOULD BE INSTALLED AT EACH CORNER OF THE DIFFUSER
2. SUPPORT SHOULD BE INSTALLED TO ISOLATE DUCT TENSION FROM DIFFUSER.
3. PAINT DUCTWORK BEHIND AIR DEVICE WITH 2 COATS OF FLAT BLACK PAINT.

4 DETAIL - TYPICAL CEILING MOUNTED DIFFUSER

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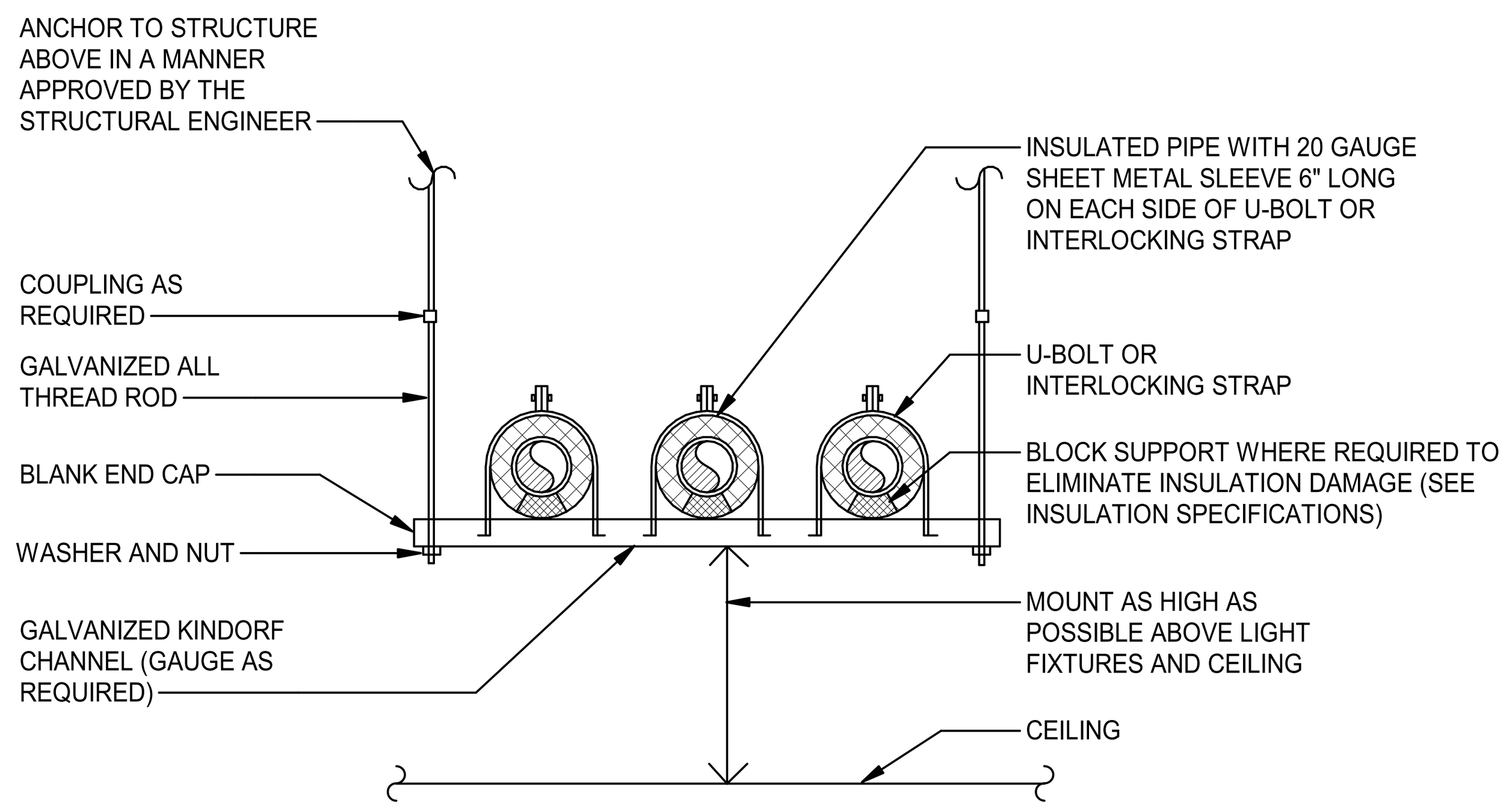
DETAILS
HVAC

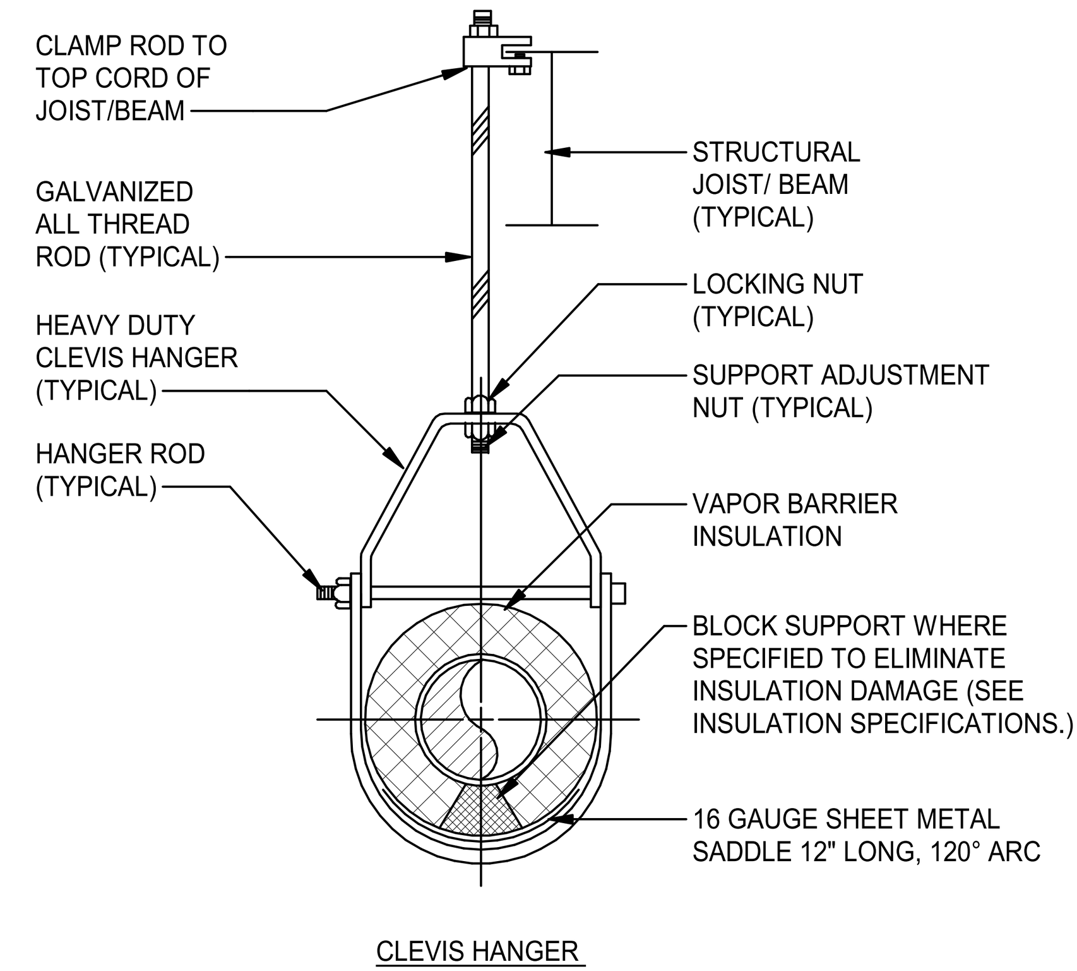
Dwg.No.: M301



NOTES:

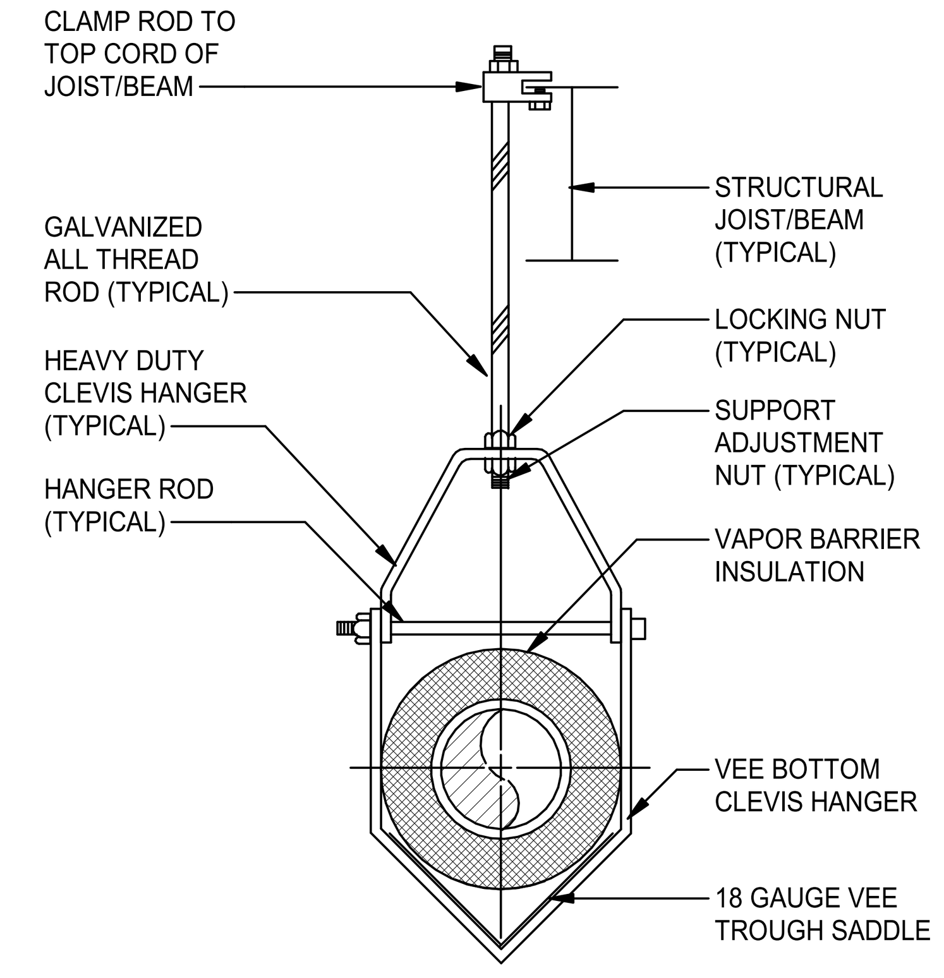
1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. COORDINATE CROSS PIPING WITH MECHANICAL PIPING ROUTED IN CORRIDORS & SPRINKLER PIPING MAINS CROSSING IN CORRIDORS.

1 DETAIL - TYPICAL TRAPEZE PIPING SUPPORT



CLEVIS HANGER
WITH VAPOR BARRIER INSULATION

2 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT

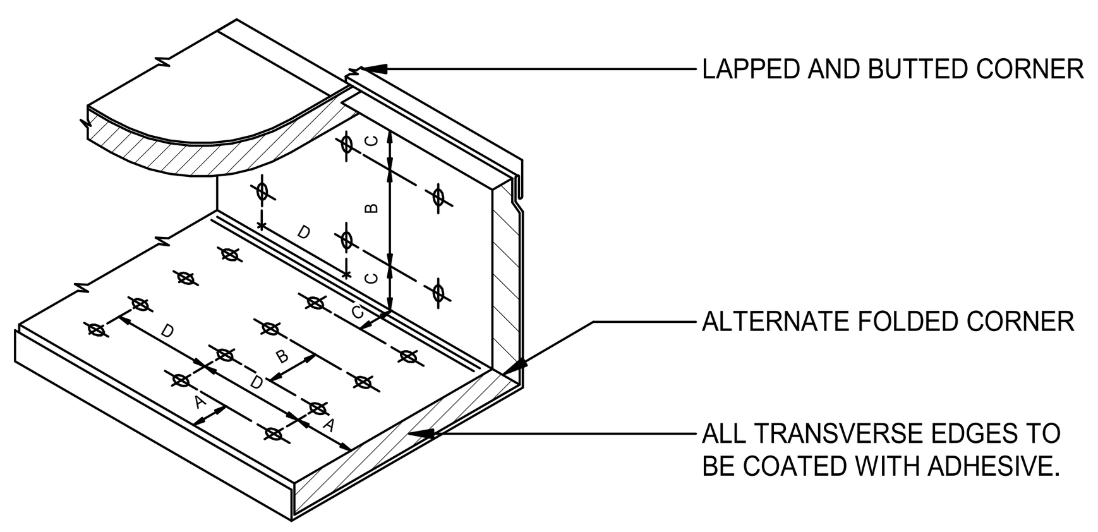


VEE TROUGH AND VEE CLEVIS HANGER
(WITH VAPOR BARRIER INSULATION)

NOTES:

1. SUPPORT BOTH ENDS OF VEE TROUGH WITH HANGER.
2. COORDINATE LENGTH OF VEE TROUGH.
3. UTILIZE FOR ALL REFRIGERANT PIPING LESS THAN 3/4" DIAMETER.

3 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT FOR REFRIGERANT PIPING

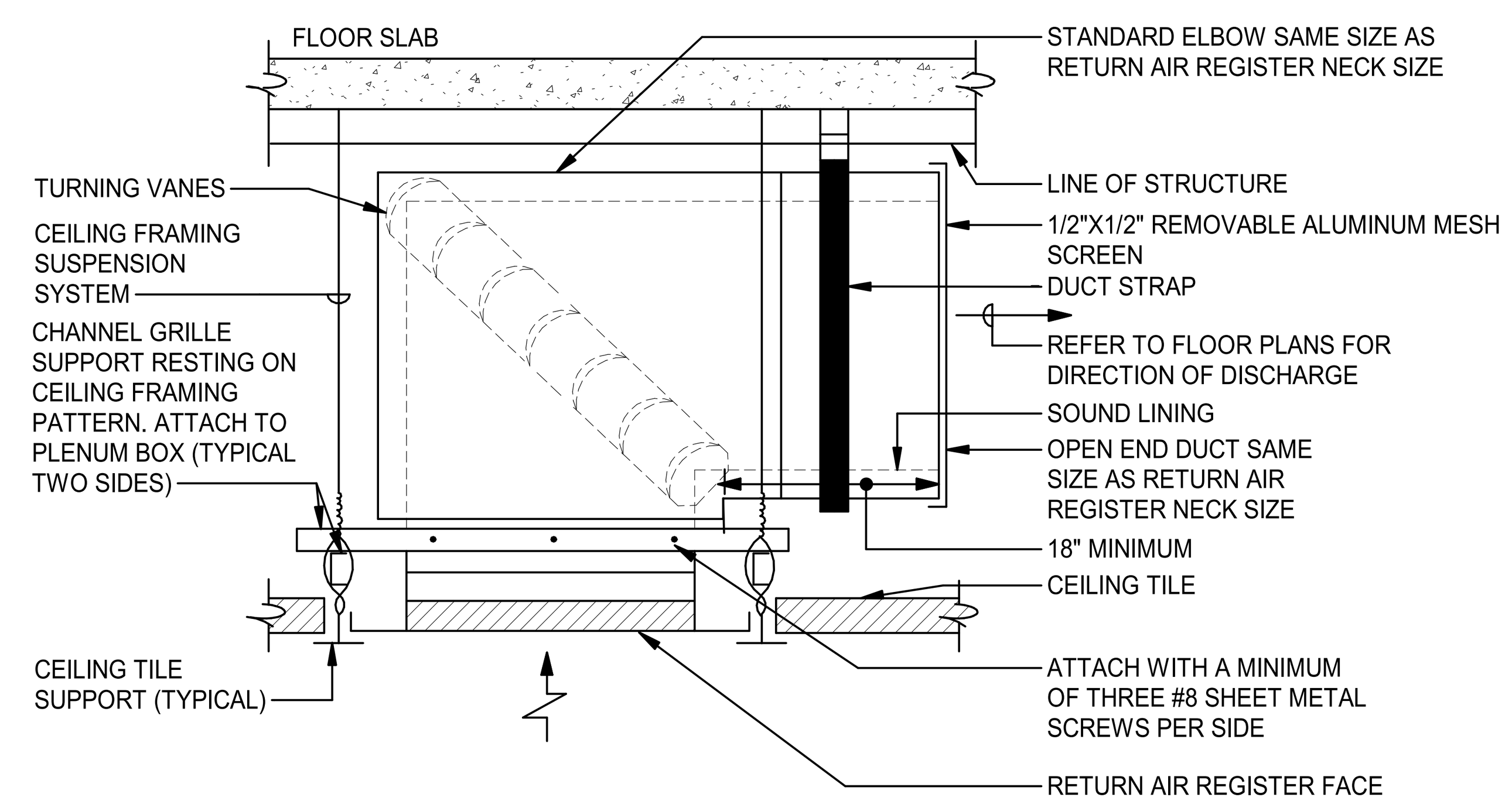


VELOCITY	MAX SPACING FOR FASTENERS			
	A	B	C	D
LOW - 2 INCH S.P. AND LESS	3"	12"	4"	18"
MED.- 3 INCH S.P. & GREATER	3"	6"	4"	16"

NOTES:

1. LINER ADHERED TO THE DUCT WITH 90% MINIMUM AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF THE LINER MUST FACE THE AIR FLOW.
3. PROVIDE GALVANIZED PERFORATED LINER ON ON TOP OF SOUND LINING.

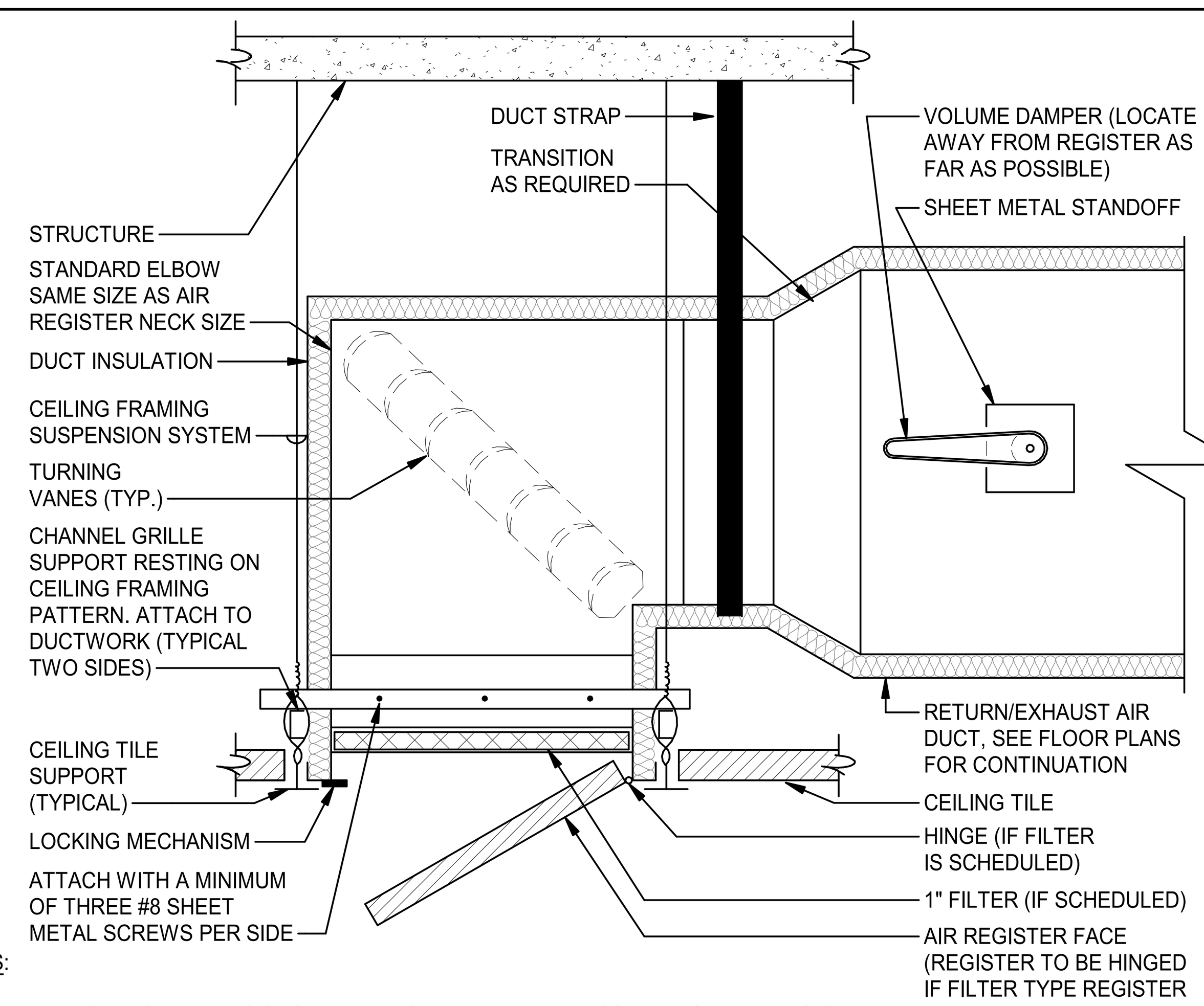
4 DETAIL - TYPICAL FLEXIBLE DUCT LINER INSTALLATION



NOTES:

1. "T" BAR SUPPORT WIRES SHOULD BE INSTALLED AT EACH CORNER OF THE REGISTER.
2. SUPPORT SHOULD BE INSTALLED TO ISOLATE DUCT TENSION FROM REGISTER.
3. PAINT DUCTWORK BEHIND AIR DEVICE WITH 2 COATS OF FLAT BLACK PAINT.

5 DETAIL - TYPICAL CEILING PLENUM RETURN AIR REGISTER



NOTES:

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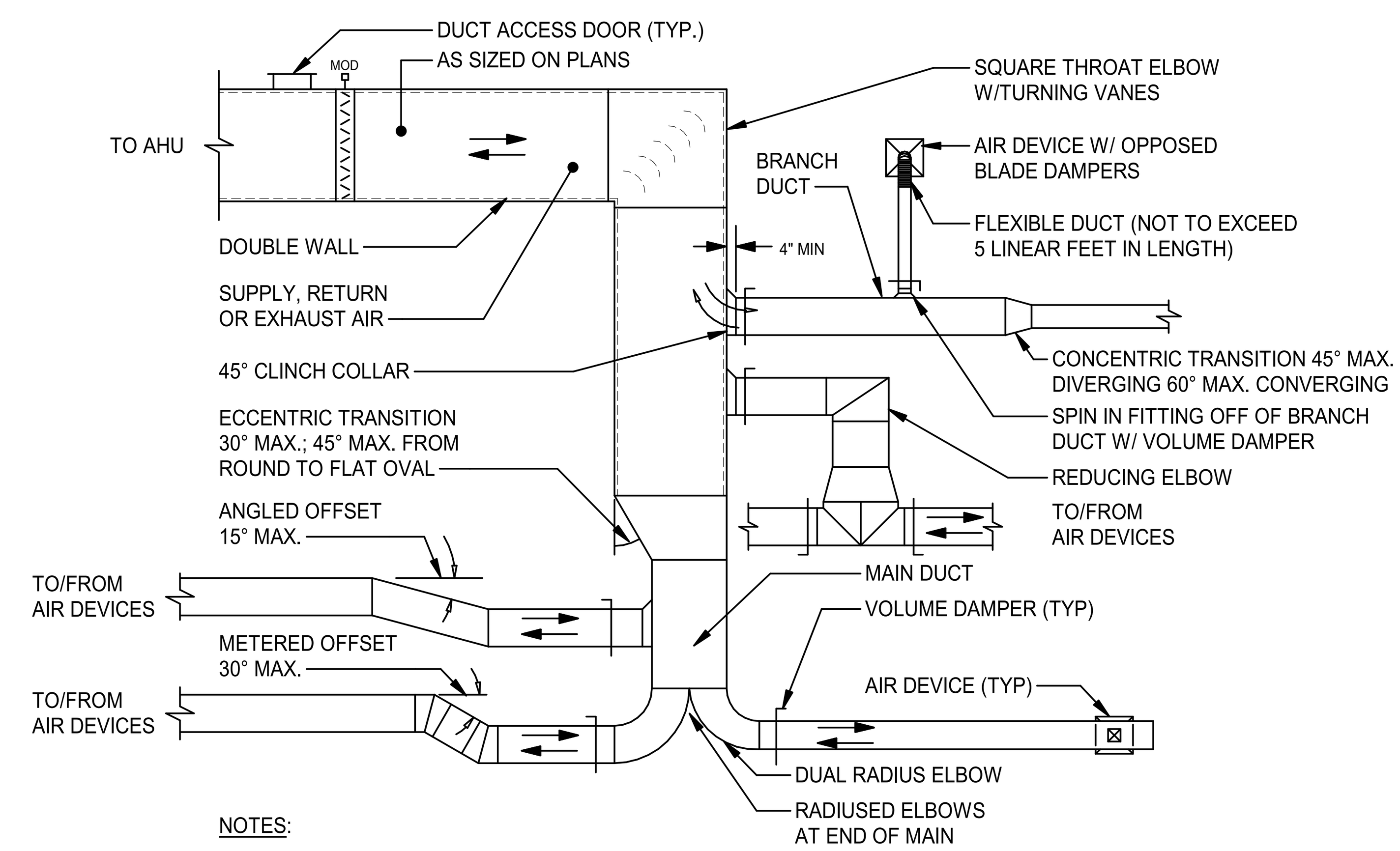
2. SUPPORT SHOULD BE INSTALLED TO ISOLATE DUCT TENSION FROM REGISTER.
3. PAINT DUCTWORK BEHIND AIR DEVICE WITH 2 COATS OF FLAT BLACK PAINT.

6 DETAIL - TYPICAL CEILING MOUNTED AIR REGISTER



NOTES:

1. ALL SEAMS AND SPIN IN FITTINGS SHALL BE SEALED WITH HARD CAST PRIOR TO TESTING.
2. DUCTWORK CONSTRUCTION SHALL CONFORM TO THE MOST RECENT SMACNA STANDARD - HVAC DUCT CONSTRUCTION STANDARDS.
3. PROVIDE INSULATED STAND-OFFS AT VOLUME DAMPERS INSTALLED IN INSULATED DUCT SYSTEMS.
4. FURNISH AND INSTALL ADEQUATELY SIZED DUCT ACCESS DOORS AT ALL FIRE DAMPERS, AIR MEASURING DEVICES, MOTOR-OPERATED DAMPERS, DUCT SMOKE DETECTORS, AND OTHER LOCATIONS WHERE INDICATED AND REQUIRED FOR DUCT ACCESS.
5. INSTALL PINK RIBBON AT ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS.
6. LABEL ALL DUCT ACCESS DOORS.
7. PAINT BEHIND ALL AIR DEVICES WITH 2 COATS OF FLAT BLACK PAINT.
8. VOLUME DAMPERS SERVING AIR DEVICES SHALL BE INSTALLED AS FAR AS POSSIBLE FROM AIR DEVICE TO MANAGE NOISE.

7 DETAIL - TYPICAL SUPPLY, EXHAUST, OR RETURN DUCT OFFSET, TRANSITION AND DUCT ACCESS DOORS

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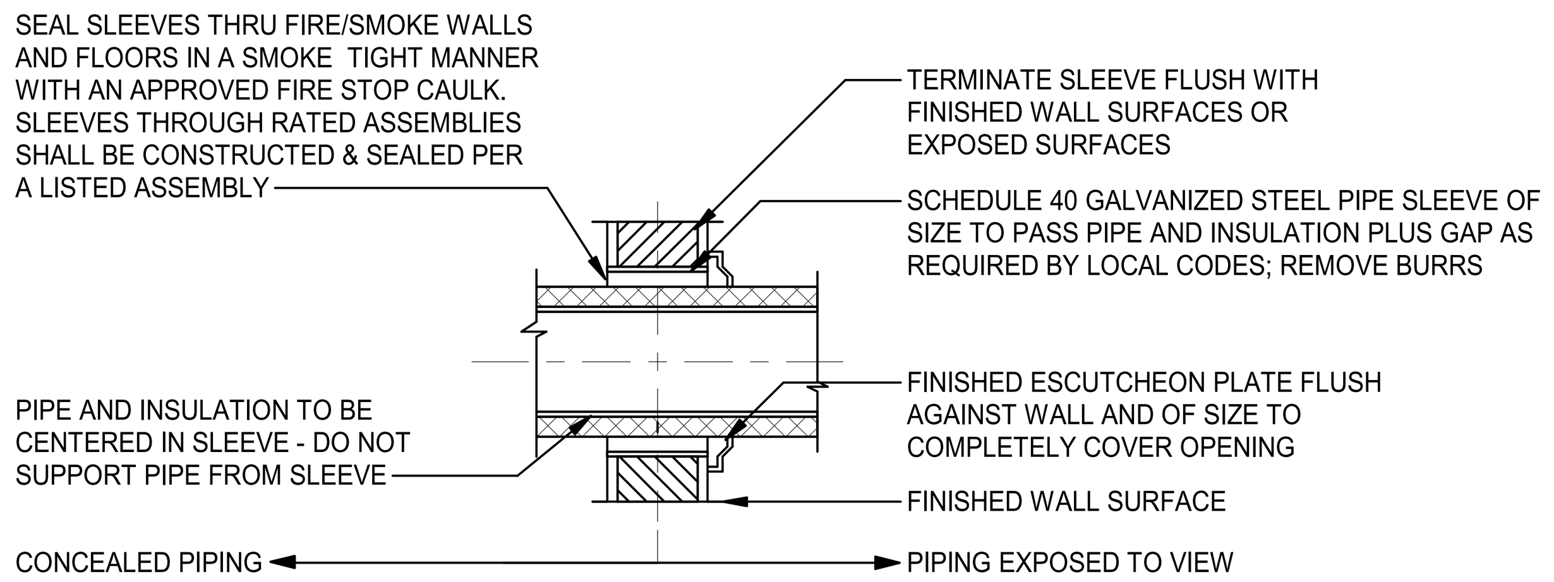
DETAILS
HVAC

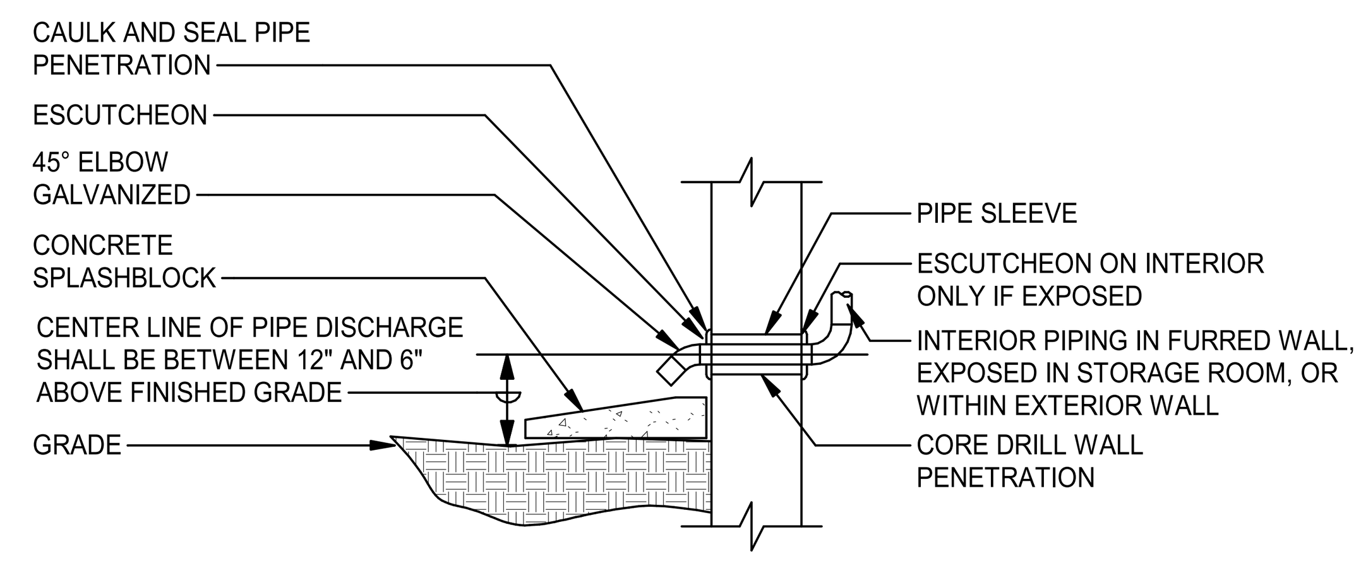
Dwg.No.: M302



NOTE:

1. FOR INTERIOR FRAME PARTITIONS - PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET METAL; ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPIRAL SEAMS, OR WELDED LONGITUDINAL JOINT. FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SMALLER, 20 GAUGE; 4" TO 6", 16 GAUGE; OVER 6", 14 GAUGE.

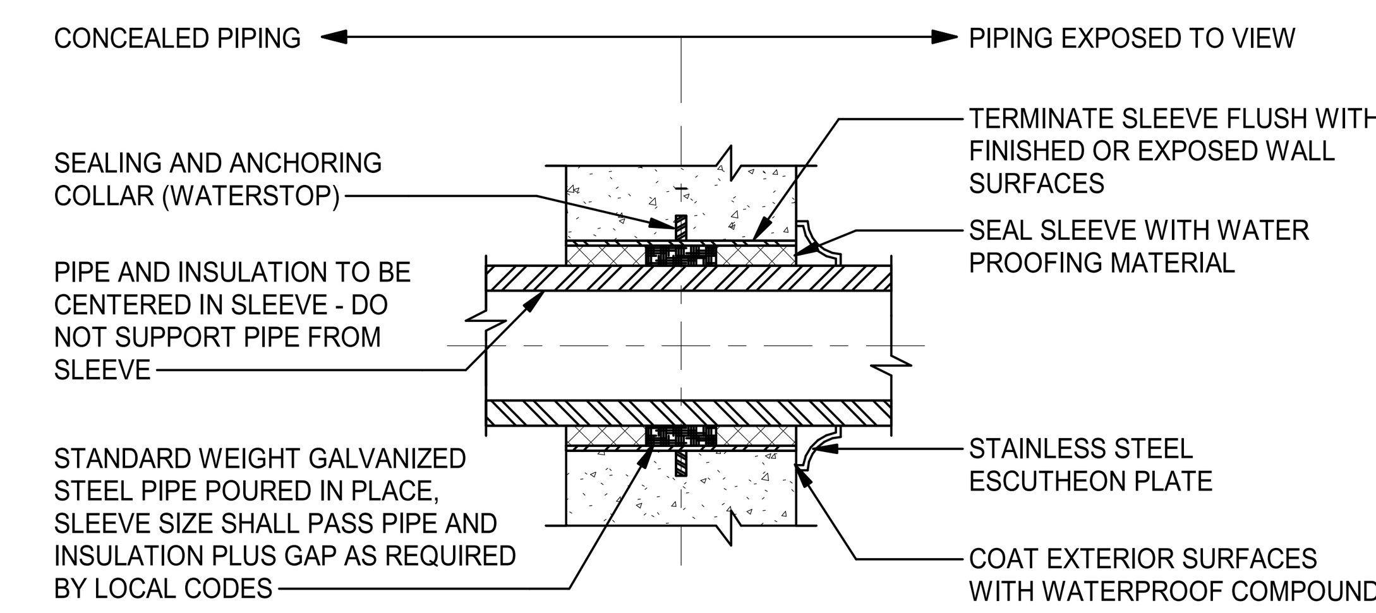
1 DETAIL - TYPICAL PIPE SLEEVE THRU INTERIOR WALL



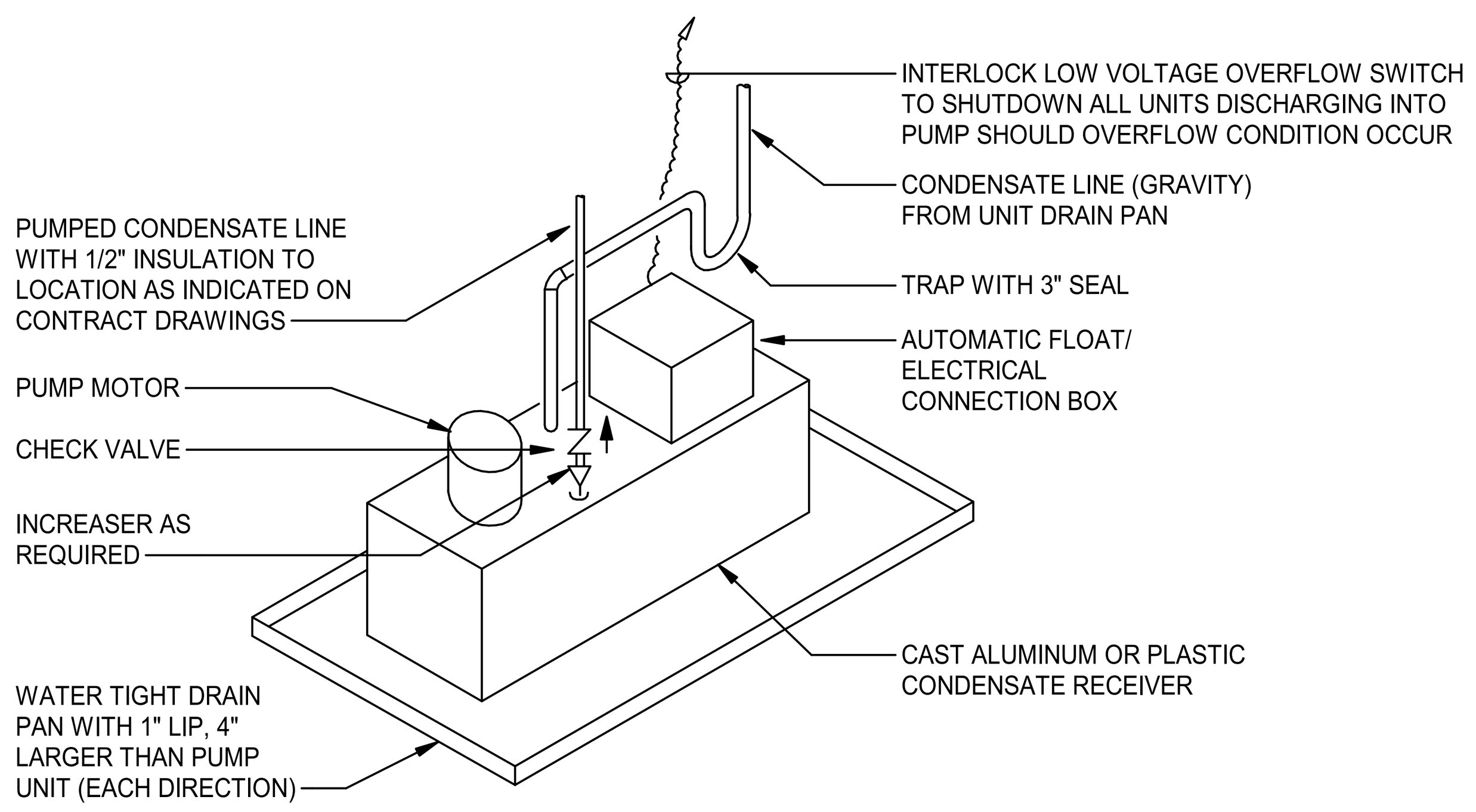
NOTE:

1. PAINT EXTERIOR GALVANIZED 45° ELBOW TO MATCH BUILDING EXTERIOR WALL COLOR.

2 DETAIL - A/C CONDENSATE DRAIN DISCHARGE DETAIL



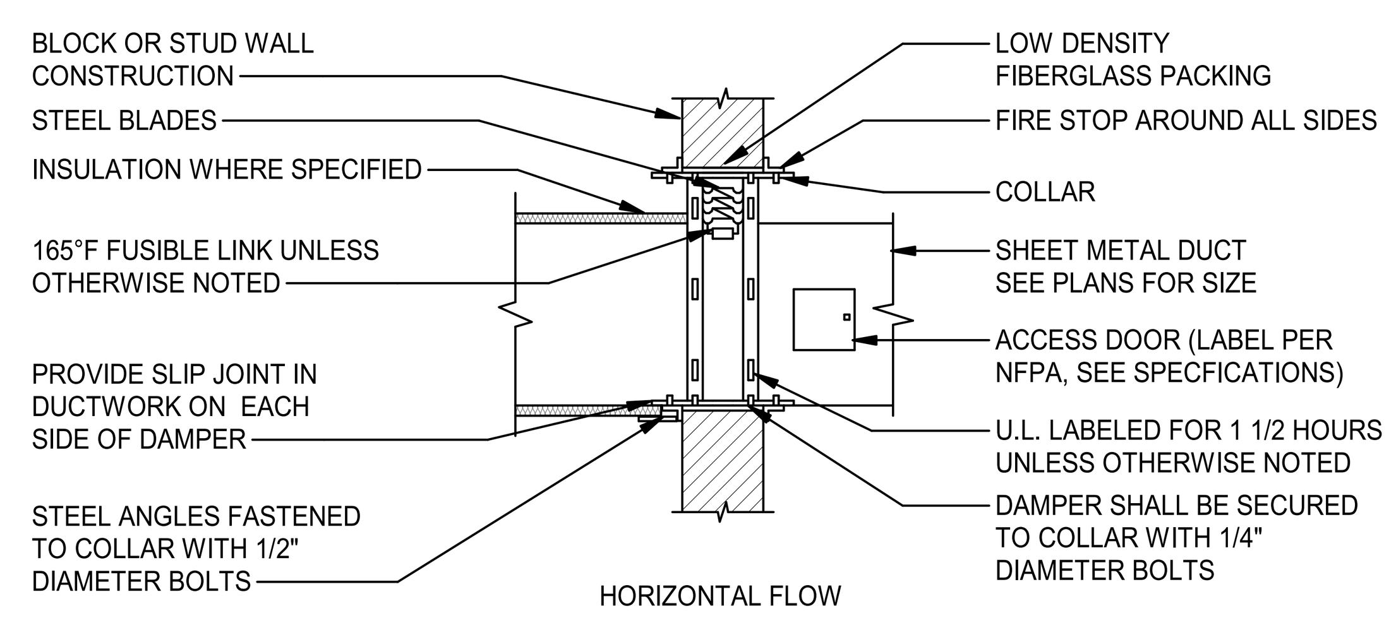
3 DETAIL - TYPICAL PIPE SLEEVE THRU EXTERIOR WALL



NOTES:

1. MOUNT UNIT ON WALL BRACKET AT 7 FEET ABOVE FINISHED FLOOR.

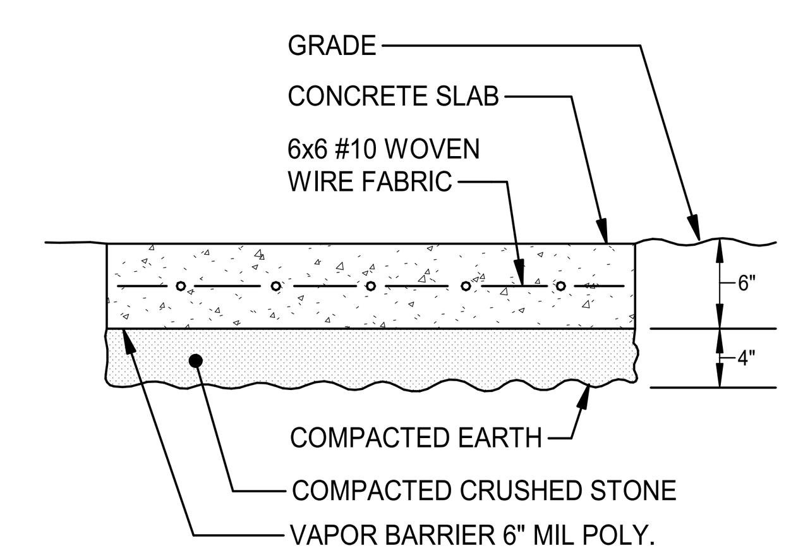
4 DETAIL - A/C CONDENSATE PUMP UNIT



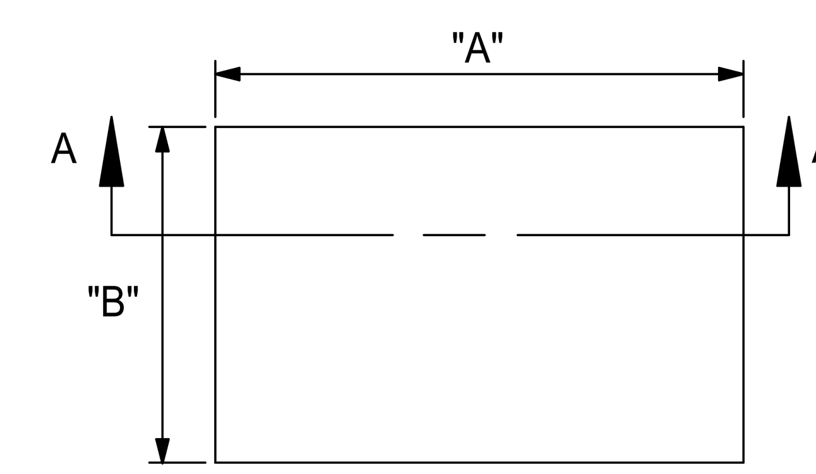
NOTE:

1. INSTALLATION SHALL COMPLY WITH U.L. REQUIREMENTS

5 DETAIL - TYPICAL HORIZONTAL DYNAMIC TYPE FIRE DAMPER



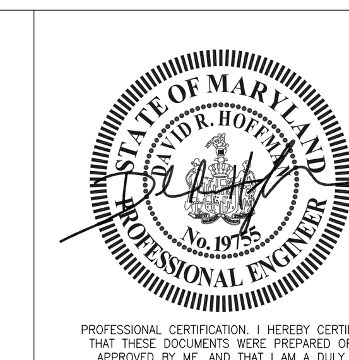
SECTION A-A



NOTE:

1. SLAB SHALL EXTEND 6" BEYOND UNIT SIZE IN BOTH "A" & "B" DIMENSIONS. UNIT SHALL BE CENTERED & LEVELED ON SLAB

6 DETAIL - OUTDOOR HEAT PUMP UNIT CONCRETE PAD



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DETAILS
HVAC

Dwg.No.: M303

ATC CONTROL SEQUENCE

DUCTLESS SPLIT SYSTEM HEAT PUMP UNITS.

A. GENERAL

1. THE DUCTLESS SPLIT SYSTEM HEAT PUMP UNITS SHALL BE PROVIDED WITH FACTORY PACKAGED CONTROLS AS INDICATED IN DIVISION 23 SECTION, HEATING, VENTILATING, AND AIR CONDITIONING.
2. THE CONTRACTOR SHALL INSTALL FACTORY FURNISHED CONTROLS, INTERLOCK WIRING, THERMOSTATS, AND CONTROL WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. THE CONTRACTOR SHALL INTERLOCK THE A/C CONDENSATE FLOAT SWITCH TO THEIR RESPECTIVE DUCTLESS SPLIT SYSTEM. THE A/C CONDENSATE FLOAT SWITCH SHALL BE WIRED TO DE-ENERGIZE THE DUCTLESS SPLIT SYSTEM IF MOISTURE IS DETECTED IN THE AUXILIARY DRAIN PAN. A LOCAL ALARM SHALL BE ANNUNCIATED UPON ACTIVATION OF THE FLOAT SWITCH.
4. THE ATC SUBCONTRACTOR SHALL INTERLOCK THE A/C CONDENSATE PUMP OVERFLOW SAFETY SWITCHES TO THEIR RESPECTIVE DUCTLESS SPLIT SYSTEM. THE CONDENSATE OVERFLOW SAFETY SWITCHES SHALL BE WIRED TO DE-ENERGIZE THE DUCTLESS SPLIT SYSTEM IN THE CASE OF HIGH LEVEL WATER CONDITION AT THE REMOTE CONDENSATE PUMP. A LOCAL ALARM SHALL BE ANNUNCIATED UPON ACTIVATION OF PUMP SAFETY SWITCH.
5. FAN SPEED - EACH UNIT SHALL HAVE LOW, MEDIUM, HIGH MODE AND CASSETTES SHALL HAVE AN AUTO MODE. IN AUTO THE FAN SHALL AUTOMATICALLY ADJUST TO LOWER SPEEDS AS ROOM TEMPERATURE APPROACES SETPOINT.
6. REACHING SETPOINT - THE FAN SHALL OPERATE AT SUPER LOW (~50% OF LOW) SPEED WHEN SETPOINT IS ACHIEVED.
7. DRY MODE - FANS SHALL OPERATE AT LOW SPEED WITH FULL COOLING REFRIGERATION TO OBTAIN THE COLDEST TEMPERATURE POSSIBLE. THIS MODE SHALL MAXIMIZE MOISTURE REMOVAL WHILE MINIMIZING THE DECREASE IN SPACE DRY BULB TEMPERATURE.
8. UNIT MODE SHALL BE DETERMINED AT SPACE TEMPERATURE CONTROLLER. UNIT SHALL HAVE AUTO MODE, HEATING MODE, COOLING MODE, AND DRY MODE.

B. SYSTEM OPERATION

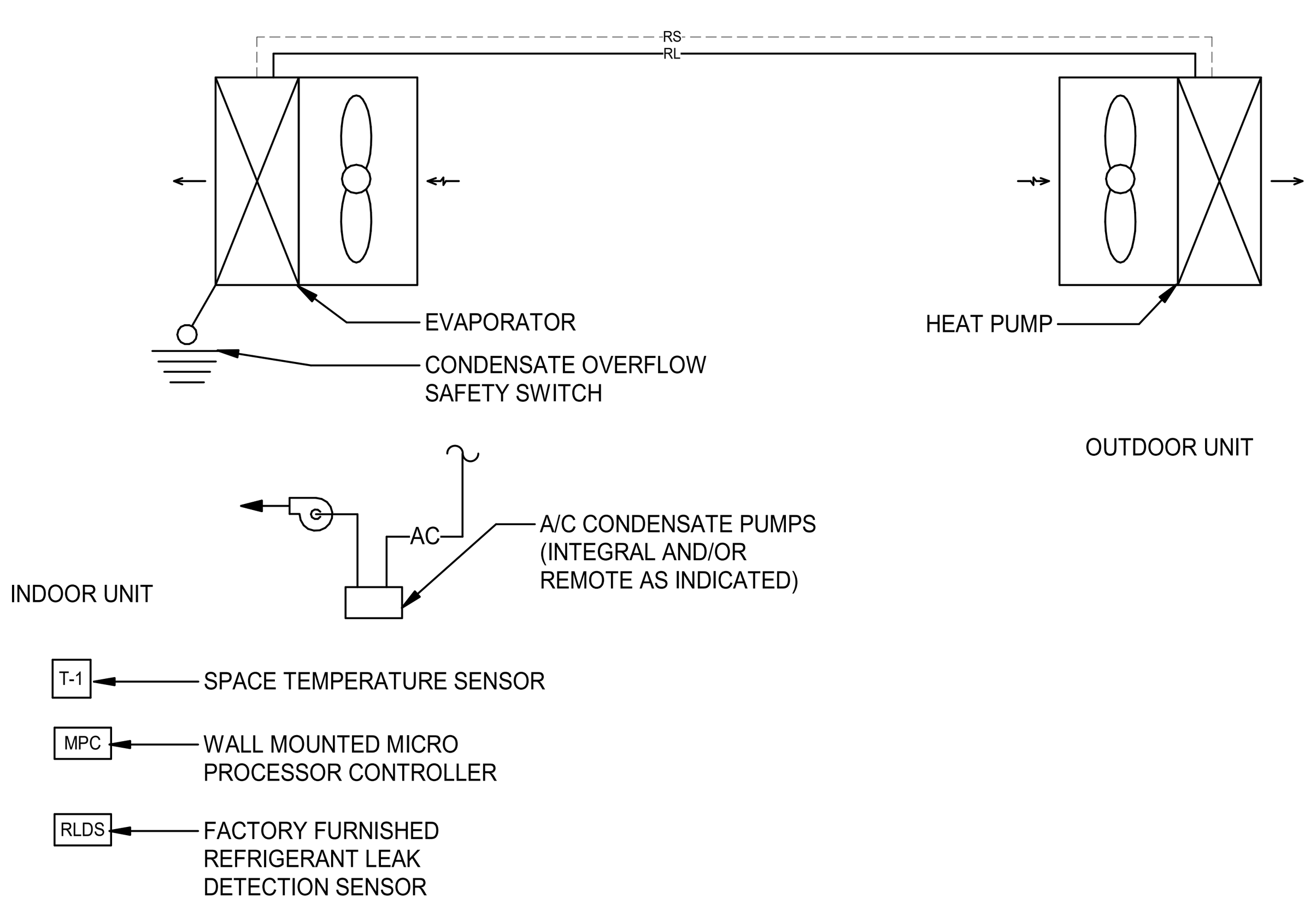
1. THE UNITS SHALL BE ARRANGED FOR A WINTER TIME MORNING WARM-UP CYCLE AND A SUMMER TIME MORNING PULL DOWN CYCLE (FROM 6:00 A.M. TO 7:30 A.M.)
2. MORNING WARM-UP CYCLE: DURING MORNING WARM-UP CYCLE, THE SPACE AIR TEMPERATURE SENSOR (T-1) SHALL ENERGIZE THE MECHANICAL REFRIGERATION SYSTEM AND THE HEAT PUMP UNIT FAN SHALL OPERATE AT FULL SPEED TO PROVIDE FULL HEATING UNTIL THE SPACE AIR TEMPERATURE RISES TO 70 DEGREES F (ADJUSTABLE). UPON COMPLETION OF THE MORNING WARM-UP CYCLE, THE SPACE TEMPERATURE SENSOR, (T-1) SHALL CYCLE MECHANICAL REFRIGERATION SYSTEM AND SUPPLY AIR FAN TO MAINTAIN SPACE TEMPERATURE SET POINT.
3. MORNING PULL DOWN COOLING CYCLE: DURING MORNING PULL DOWN COOLING CYCLE, THE SPACE AIR TEMPERATURE SENSOR (T-1) SHALL ENERGIZE THE MECHANICAL REFRIGERATION SYSTEM AND THE HEAT PUMP UNIT FAN SHALL OPERATE AT FULL SPEED TO PROVIDE FULL COOLING UNTIL THE SPACE AIR TEMPERATURE DROPS TO 78 DEGREES F (ADJUSTABLE). UPON COMPLETION OF THE MORNING COOL DOWN CYCLE, THE SPACE TEMPERATURE SENSOR, (T-1) SHALL CYCLE MECHANICAL REFRIGERATION SYSTEM AND SUPPLY AIR FAN TO MAINTAIN SPACE TEMPERATURE SET POINT.

C. UNOCCUPIED MODE

1. DURING UNOCCUPIED MODE HEAT PUMP UNITS SHALL CYCLE INDEPENDENTLY TO MAINTAIN A REDUCED 60 DEGREES F (ADJUSTABLE) NIGHT SET BACK TEMPERATURE FOR HEATING SEASON AND 85 DEGREES F (ADJUSTABLE) NIGHT SET BACK TEMPERATURE FOR COOLING SEASON.

D. REFRIGERANT MITIGATION CONTROL

1. UNIT SHALL BE FURNISHED WITH FACTORY A2L TYPE REFRIGERATION SAFETY CONTROL THAT WILL SENSE REFRIGERANT LEAK AND AUTOMATICALLY TURN OFF DX SYSTEM AND ENERGIZE SUPPLY FAN AT FULL SPEED.



(1) CONTROLS - DUCTLESS SPLIT SYSTEM UNIT

ATC POINTS LIST

EQUIPMENT OR SYSTEM	DOMESTIC HOT WATER SUPPLY	EQUIPMENT RUN TIMES	FLUID FLOW / PUMP STATUS	GRAPHIC DISPLAY	HOT WATER SUPPLY TEMPERATURE SENSOR	LOW TEMPERATURE ALARM	START & STOP	START & STOP - OPTIMIZATION	TEMP - DOMESTIC WATER RETURN	TOTAL RUN TIME (PUMP & WATER HEATER)
ELECTRIC HYBRID HEAT PUMP DOMESTIC WATER HEATER & DOMESTIC RECIR. PUMP	●	●	●	●	●	●	●	●	●	●

NOTES:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION DESCRIBED IN THE SPECIFICATIONS.
2. FLUID FLOW STATUS FOR DOMESTIC WATER HEATER IS FOR RE-CIRCULATION PUMP STATUS.
3. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

ATC CONTROL SEQUENCE

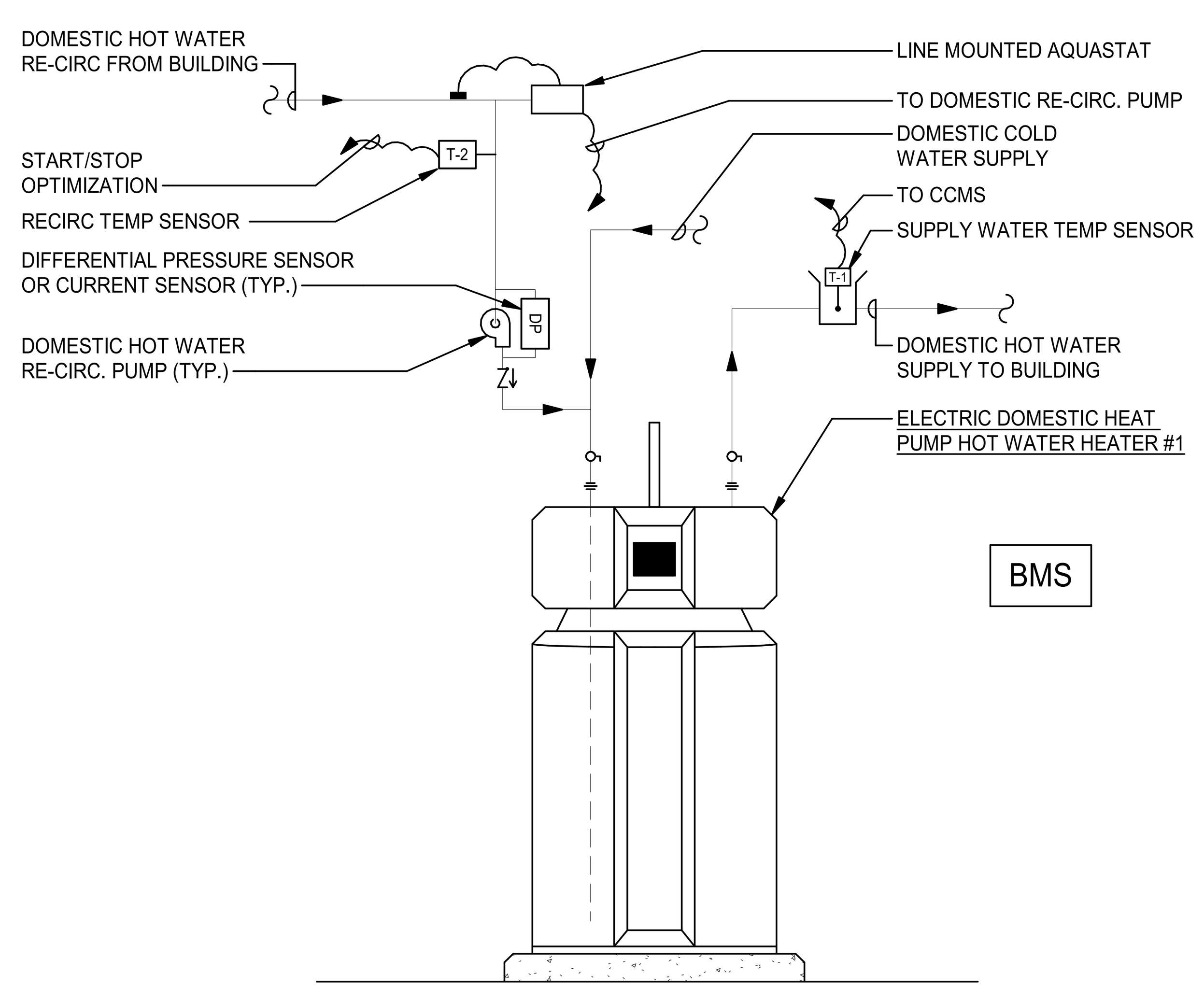
ELECTRIC HYBRID HEAT PUMP DOMESTIC WATER HEATER

A. GENERAL

1. THE ELECTRIC HYBRID HEAT PUMP DOMESTIC HOT WATER HEATER(S) SHALL BE TIED INTO THE ATC SYSTEM TO PROVIDE START/STOP OPTIMIZATION AND CONTROL. ATC CONTRACTOR SHALL PROVIDE CONTACTORS AS REQUIRED FOR START/STOP OPTIMIZATION OF WATER HEATER(S).
2. THE LEAVING WATER TEMPERATURE OF THE ELECTRIC HYBRID HEAT PUMP WATER HEATERS SHALL BE MONITORED AND REPORT BACK TO CENTRAL MONITORING SYSTEM.
3. THE ELECTRIC HYBRID HEAT PUMP DOMESTIC HOT WATER HEATER RE-CIRC PUMP SHALL BE CONTROLLED BY A LINE MOUNTED AQUASTAT. ALL WIRING, RELAYS, AQUASTATS, ETC., SHALL BE PROVIDED AND INSTALLED BY ATC SUBCONTRACTOR. DOMESTIC WATER RE-CIRCULATING PUMP SHALL BE DE-ENERGIZED WHEN SYSTEM IS SHUT-DOWN DURING SUMMER AND/OR LENGTHY UNOCCUPIED PERIODS. FURNISH START/STOP OPTIMIZATION STRATEGY ON DOMESTIC RECIRC. PUMP TO ALLOW PROPER DOMESTIC WATER HEATER AND RECIRC. PUMP START TIME EACH MORNING BASED ON HOW LONG IT TOOK THE DAY BEFORE TO OBTAIN DESIGN RECIRC. TEMPERATURE MEASURED AT T-2.
4. ON A FALL IN RECIRC. WATER TEMPERATURE BELOW SET POINT (105 DEGREES F ADJUSTABLE) THE RECIRC. PUMP SHALL ENERGIZE. REVERSE SEQUENCE SHALL OCCUR WHEN AQUASTAT IS SATISFIED.
5. PROVIDE AND INSTALL DIFFERENTIAL PRESSURE SWITCH OR CURRENT SENSOR TO DETERMINE THE STATUS OF ALL DOMESTIC RE-CIRC PUMPS.
6. INSTALL DOMESTIC RECIRC. TEMPERATURE SENSOR FOR START/STOP OPTIMIZATION.
7. THE RETURN TEMPERATURE SENSOR SHALL ALSO BE UTILIZED AS A STATUS ALARM SHOULD THE RECIRC LOOP TEMPERATURE FALL BELOW A PRE-DETERMINED (ADJUSTABLE) SET POINT (95°F FOR THE 110°F LOOP). SHOULD THE LOW TEMPERATURE ALARM ANNUNCIATE THE ATC SYSTEM SHALL INDICATE PUMP FAILURE. THE LOW TEMPERATURE ALARM SHALL ONLY BE ACTIVE DURING OCCUPIED PERIODS WHEN THE DOMESTIC RECIRC PUMPS HAVE BEEN OPERATING.

B. SYSTEM OPERATION

1. THE ELECTRIC HYBRID HEAT PUMP DOMESTIC WATER HEATERS SHALL BE FURNISHED WITH FACTORY PACKAGE CONTROLS TO MAINTAIN A CONSTANT LEAVING TEMPERATURE OF 110 DEGREES F (ADJUSTABLE).
2. FACTORY CONTROLS SHALL ALLOW THE FOLLOWING MODES OF OPERATION.
   a. ELECTRIC HEAT PUMP
   b. ELECTRIC RESISTANCE
   c. COMBINED HEAT PUMP AND ELECTRIC RESISTANCE



(2) CONTROLS - ELECTRIC DOMESTIC HEAT PUMP HOT WATER HEATER

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Date: JANUARY 23, 2026
Scale: 1/8" = 1'-0"
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Proj.No.: 24038

ATC DIAGRAMS

Dwg.No.: M401

ATC POINTS LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	KW DEMAND AND ENERGY (KWH)
BUILDING AND SUB-METER(S) DEMAND / ENERGY	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
2. ALL ITEMS IN THE POINTS LIST SHALL BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

ATC CONTROL SEQUENCE

BUILDING DEMAND/ENERGY METERING

A. A MULTI-CHANNEL POWER AND ENERGY METER(S) SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26. REFER TO ELECTRICAL SPECIFICATION SECTION 262713 'ELECTRICITY METERING' FOR METER TYPE(S). REFER TO ELECTRICAL DRAWINGS FOR METER QUANTITIES, LOCATION(S) AND METERING SCHEDULE.

B. ATC CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING, RELAYS, TERMINATIONS, ETC. AS REQUIRED TO INTERLOCK POWER AND ENERGY METER WITH THE BMS SYSTEM.

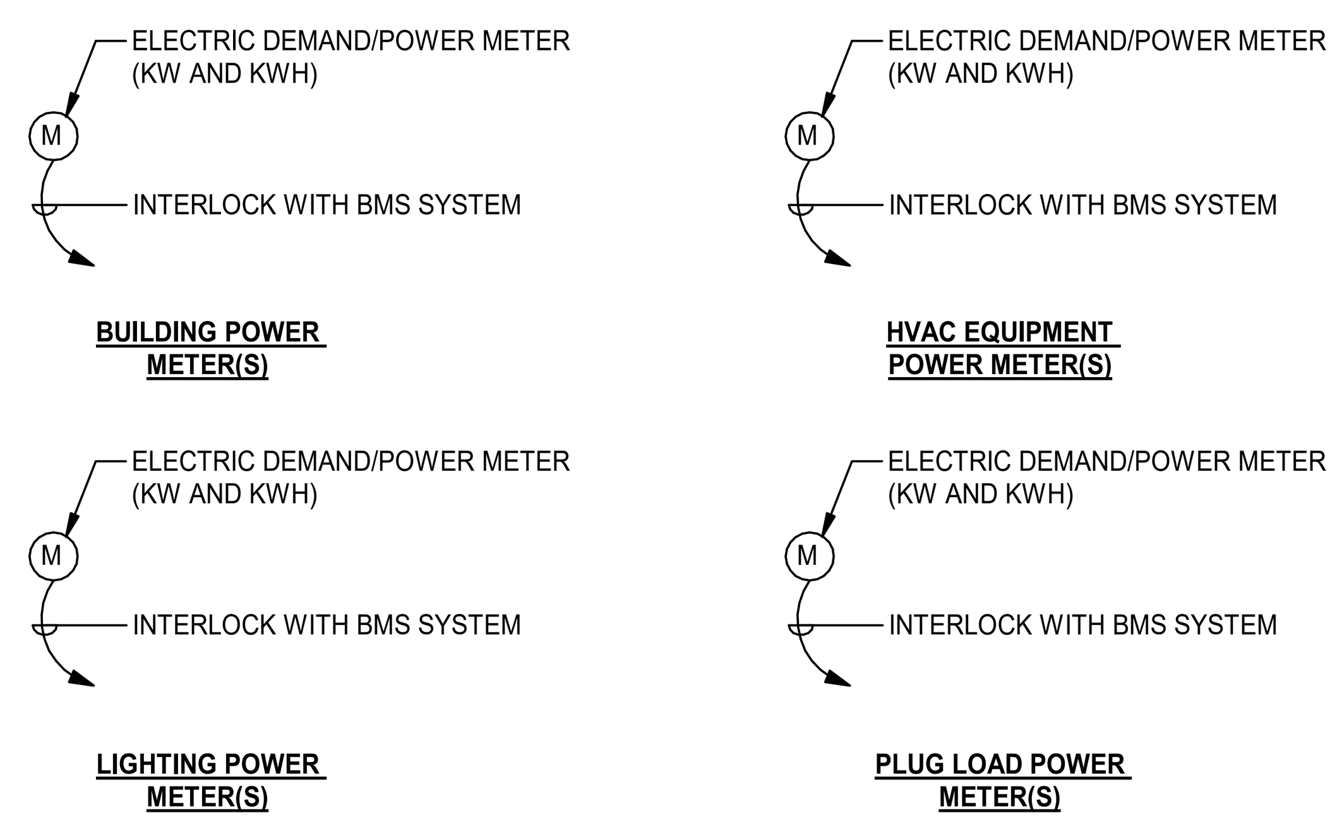
C. MAP OUT ALL DATA AND POINTS FROM POWER AND ENERGY METER(S) TO THE BMS SYSTEM.

D. BMS SYSTEM SHALL STORE DATA FROM POWER AND ENERGY METER(S) AND OTHER SENSING DEVICES FOR A MINIMUM OF 36 MONTHS.

E. BMS SYSTEM SHALL STORE REAL-TIME ENERGY CONSUMPTION DATA AND PROVIDE HOURLY, DAILY, MONTHLY, AND YEARLY LOGGED DATA FOR EACH OF THE FOLLOWING END-USE CATEGORIES:
   1. HVAC SYSTEM
   2. INTERIOR / EXTERIOR LIGHTING
   3. PLUG LOADS
   4. OVERALL BUILDING

F. REFER TO METERING SCHEDULE ON THE ELECTRICAL DRAWINGS FOR METERING POINTS FOR EACH OF THE ABOVE END-USE CATEGORIES.

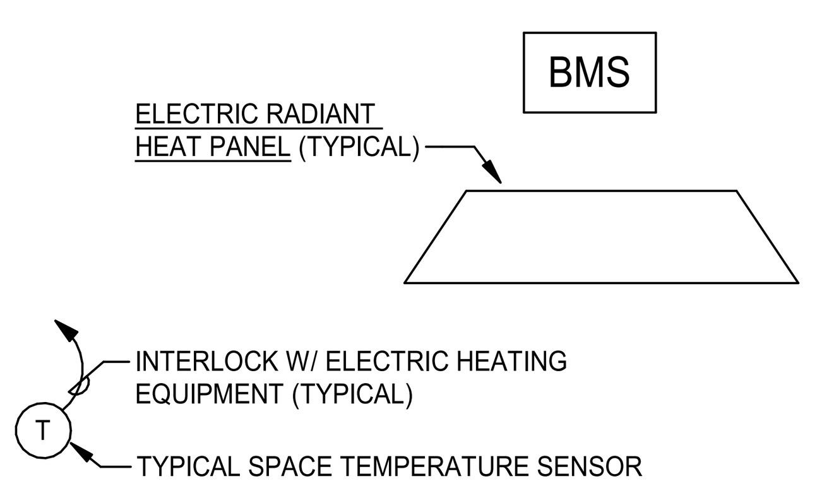
G. DATA FROM POWER AND ENERGY METER(S) SHALL BE REPORTED ON ATC CENTRAL COMPUTER, WITH CAPABILITY TO GRAPHICALLY PROVIDE THE ENERGY CONSUMPTION FOR EACH OF THE ABOVE END-USE CATEGORIES AT LEAST EVERY HOUR, DAY, MONTH, AND YEAR FOR THE PREVIOUS 36 MONTHS.



1 CONTROLS - BUILDING AND SUBMETER(S) DEMAND/ENERGY MONITORING ON BMS

ATC CONTROL SEQUENCE

A. GENERAL:
   1. THE ELECTRIC RADIANT HEAT PANELS SHALL BE INTERLOCKED WITH REMOTE TEMPERATURE SENSOR AND CONTROLLED BY CENTRAL MONITORING SYSTEM.
   2. THE ATC SUBCONTRACTOR SHALL INSTALL CONTROLS, INTERLOCK WIRING, TEMPERATURE SENSORS, AND CONTROL WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM.
   3. RADIANT HEATING PANELS SHALL BE TIED INTO THE BMS CONTROL SYSTEM. HEAT PANELS SHALL BE PROVIDED WITH START/STOP OPTIMIZATION CONTROL.
   4. ON A FALL IN SPACE TEMPERATURE TO 65°F (ADJUSTABLE), THE SPACE TEMPERATURE SENSORS (T-1) SHALL ENERGIZE RADIANT HEAT PANEL. THE REVERSE SEQUENCE SHALL OCCUR UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT.
   5. ANY TIME THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEGREES F (ADJUSTABLE) THE RADIANT HEAT PANEL SHALL BE COMMANDED OFF BY THE AUTOMATIC TEMPERATURE CONTROL SYSTEM.



NOTES:
1. ATC SYSTEM SHALL PROVIDE ON/OFF CONTROL

ATC POINTS LIST

EQUIPMENT OR SYSTEM	EQUIPMENT STATUS	GRAPHIC DISPLAY	START & STOP - OPTIMIZATION	TEMP - SPACE	TIME PROGRAM	TOTAL RUN TIME
ELECTRIC RADIANT HEAT PANEL	●	●	●	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SPECIFIED SEQUENCE OF OPERATION DESCRIBED IN THE SPECIFICATIONS.
2. ALL ITEMS IN THE POINTS LIST SHALL BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

2 CONTROLS - ELECTRIC RADIANT HEAT PANELS

ATC CONTROL SEQUENCE

HIGH TEMPERATURE ALARMS

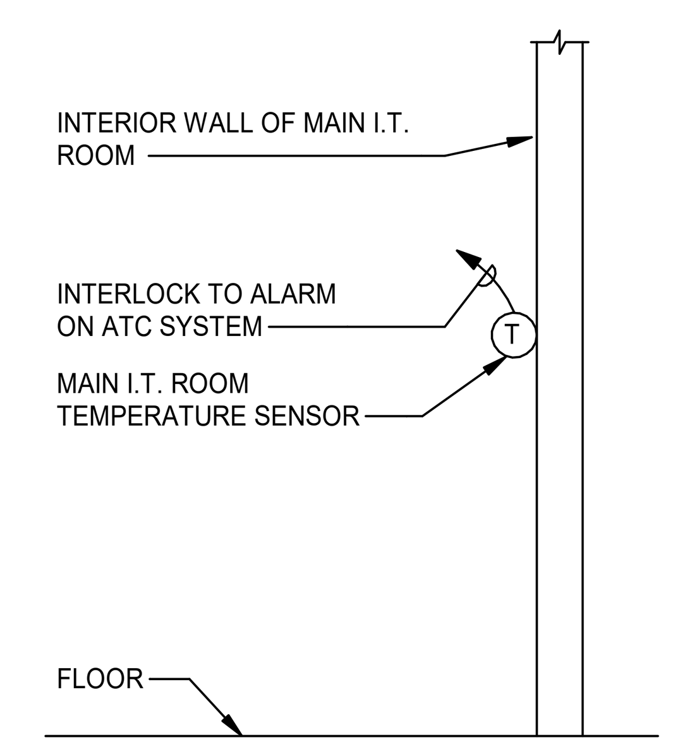
A. GENERAL
   1. THE I.T. ROOMS LOCATED IN THE BUILDING SHALL BE PROVIDED WITH TEMPERATURE SENSORS TIED INTO THE BMS SYSTEM.
   2. COORDINATE TEMPERATURE SENSOR ALARM SET POINTS WITH OWNER.
   3. TEMPERATURE SENSOR ALARM SET POINTS SHALL BE FULLY ADJUSTABLE.

B. OPERATION
   1. INSTALL A TEMPERATURE SENSOR IN THE I.T. ROOMS SET TO ALARM IF ITS HIGH TEMPERATURE SETTING IS EXCEEDED.
   2. IF THE HIGH TEMPERATURE SETTING OF SPACES IS EXCEEDED THEN AN AUDIBLE AND VISUAL ALARM WITH SILENT SWITCH SHALL SOUND AN ALARM ON THE BMS SYSTEM.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	HIGH TEMPERATURE ALARM	TEMP - SPACE
IT ROOM	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.



3 CONTROLS - HIGH TEMPERATURE ALARMS

STATE OF MARYLAND — DAVID R. HOFFMAN — No. 19755 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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ATC DIAGRAMS

Dwg.No.: M402

DUCTLESS SPLIT HEAT PUMP SCHEDULE

UNIT DESIGNATION		INDOOR FAN AIRFLOW (CFM)		COOLING CAPACITY							REVERSE CYCLE HEATING CAPACITY					ELECTRICAL CHARACTERISTICS				A/C CONDENSATE SIZE (INCHES)	CONDENSATE PUMP	# OF CIRCUITS	REFRIGERANT TYPE	MAX. CHARGE PER CIRCUIT (LBS)	UNIT TYPE	REMARKS
				OUTDOOR CONDENSER TEMPERATURE		INDOOR ENTERING TEMPERATURE		TOTAL BTUH	SENSIBLE BTUH	MIN. EER	INDOOR AIR TEMP.	41°F OAT		14°F OAT		INDOOR		OUTDOOR								
INDOOR	OUTDOOR	HIGH	LOW	°F DB	°F WB	°F DB	°F WB				°F DB	TOTAL BTU	MIN. COP	TOTAL BTU	MIN. COP	V/Ø/HZ	MIN. CIRCUIT AMPS	V/Ø/HZ	MIN. CIRCUIT AMPS							
HPI-1	HPO-1	425	320	95	78	72	64	11,604	8,192	11.7	68	13,650	4.3	8,540	4.1	208/1/60	1	208/1/60	11	1	INTEGRAL TO UNIT	1	R-454B	2.5	WALL MOUNTED	
HPI-2	HPO-2	425	320	95	78	72	64	17,406	10,026	9.6	68	18,525	6.8	11,590	2.8	208/1/60	1	208/1/60	11	1	INTEGRAL TO UNIT	1	R-454B	2.5	WALL MOUNTED	

NOTES:
1. ALL INDOOR UNITS SHALL BE PROVIDED WITH A CONDENSATE PUMP.
2. ALL UNITS SHALL BE PROVIDED WITH REMOTE MICROPROCESSOR CONTROLLER INCORPORATING A DEHUMIDIFICATION SEQUENCE.
3. INSTALL, CHARGE WITH REFRIGERANT, ETC. PER MANUFACTURERS RECOMMENDATIONS.
4. ALL UNITS BASED ON MITSUBISHI.
5. MOUNT WALL MOUNT TYPE CONDENSATE PUMPS ABOVE CEILINGS
6. HPI-2 CONDENSATE SHALL BE PIPED TO A REMOTE A/C CONDENSATE PUMP.

RE-BALANCE OF EXISTING AIR SIDE EQUIPMENT

EQUIPMENT	SERVICE	EXISTING SUPPLY CFM	EXISTING RETURN CFM	EXISTING OUTSIDE AIR CFM	EXISTING EXHAUST AIR CFM	NEW SUPPLY CFM	NEW RETURN CFM	NEW OUTSIDE AIR CFM	NEW EXHAUST AIR CFM	REMARKS
AHU-1	STACKS	5,084	4,926	158	--	6,225	4,875	1,350	--	PROVIDE NEW SHEAVES AND BELTS
AHU-2	MEETING ROOM	1,401	1,285	146	--	1,600	1,400	200	--	PROVIDE NEW SHEAVES AND BELTS
AHU-3	PITTS ARCHIVE & SPECIAL COLLECTIONS	405	405	--	--	400	400	--	--	PROVIDE NEW SHEAVES AND BELTS
DHC-1	AHU-1	5,084	4,926	158	--	6,225	4,875	1,350	--	
DHC-2	AHU-2	1,401	1,285	146	--	1,600	1,400	200	--	
EF-1	BATHROOM GROUP	--	--	--	525	--	--	--	525	

NOTE:
1. EXISTING DATA BASED ON JULY-2025 SURVEY DATA PROVIDED BY CJ WEISMAN.

RE-BALANCE OF EXISTING HYDRONIC EQUIPMENT

EQUIPMENT	SERVICE	EXISTING CHWS GPM	EXISTING HWS GPM	NEW CHWS GPM	NEW HWS GPM	REMARKS
AHU-1	STACKS	60.6	--	60.6	--	
AHU-2	MEETING ROOM	21.4	--	21.4	--	
PUMP-1	CHILLED WATER	95	--	95	--	
PUMP-2	CHILLED WATER	95	--	95	--	
CHILLER-1	CHILLED WATER	95	--	95	--	
BOILER 1	HEATING WATER	--	39.5	--	39.5	
DHC-1 PUMP	AHU-1 DUCT COIL	--	39.8	--	39.8	
DHC-2 PUMP	AHU-3 DUCT COIL	-	7.5	--	7.5	

NOTE:
1. EXISTING DATA BASED ON JULY-2025 SURVEY TEST DATA PROVIDED BY CJ WEISMAN.

AUTOMATIC TEMPERATURE CONTROL PANEL SCHEDULE (ATC)

UNIT #	SYSTEM/EQUIPMENT SERVED	ELECTRICAL CHARACTERISTICS VOLTAGE/PHASE/HERTZ	REMARKS
ATC PANEL-1	GENERAL	120/1/60	MECH ATTIC
ATC PANEL-2	GENERAL	120/1/60	MECH ATTIC

NOTES:
1. ATC SUBCONTRACTOR SHALL PROVIDE ADDITIONAL PANELS AND POWER WIRING IF REQUIRED.
2. PROVIDE DATA CONDUIT AND BACK BOX. COORDINATE DATA CABLE AND OUTLET WITH OWNER.
3. SIZE OF ATC PANEL SHALL BE COORDINATED BASED ON QUANTITY OF CONTROLLERS INSTALLED WITHIN THE SAME.

DESIGN FLUID HEAT TRANSFER CHARACTERISTICS

FLUID	SYSTEM	SPECIFIC HEAT Cp@60°F	% VOLUME	FREEZING POINT (°F)	BURSTING POINT (°F)	HEAT TRANSFER COEFFICIENT (K)
PROPYLENE GLYCOL	CHILLED WATER	.939	30	9	-20	472
WATER	HEATING WATER	1	100	32	32	500

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	REMARKS
RG1	LOUVERED GRILLE	--
SD1	LOUVERED FACE DIFFUSER	HIGH PERFORMANCE LOUVERED DIFFUSER

NOTE: PROVIDE 24X24 AUXILIARY PANEL FOR ALL AIR DEVICES INSTALLED IN ACOUSTICAL TILE CEILINGS.

EXISTING AHU EQUIPMENT MODEL/SERIAL #'S

UNIT	MODEL #	SERIAL #	REMARKS
AHU-1	TRANE T-21	K5E281366	
AHU-2	TRANE L-6	K5B285805	
AHU-3	UNITED COOL AIR SP18G3ASTA02-X	2108071	

NOTES: INFORMATION AVAILABLE TO BIDDERS, CONTRACTOR TO VERIFY.

A/C CONDENSATE PUMP SCHEDULE

UNIT #	UNIT SERVED	GPH	HEAD (FT.)	TANK SIZE (GALLONS)	WATTS	ELEC. CHAR. V/Ø/HZ	REMARKS
1	HPI-2	10	13	1/2	15	115/1/60	

ELECTRIC RADIANT HEAT PANEL

NO.	SIZE	ELECTRICAL			WATTS	REMARKS
		VOLTS	PHASE	HERTZ		
ERHP-1	24X24	120	1	60	375	RECESSED
ERHP-2	24X24	120	1	60	375	RECESSED
ERHP-3	24X24	120	1	60	310	RECESSED
ERHP-4	24X48	120	1	60	750	RECESSED

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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SCHEDULES HVAC

Dwg.No.:
M501

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A	AMPERES	KWH	KILOWATT HOURS
AC	AIR CONDITIONER	L	LENGTH
AC	ALTERNATING CURRENT	LAN	LOCAL AREA NETWORK
ADA	AMERICANS WITH DISABILITIES ACT	LB	ELL-BACK
AF	AMPERE FRAME	LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LCP	LIGHTING CONTROL PANEL
AFG	ABOVE FINISHED GRADE	LED	LIGHT EMITTING DIODE
AHJ	AUTHORITY HAVING JURISDICTION	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
AHU	AIR HANDLING UNIT	LM	LUMEN MAINTENANCE
AIC	AMPERE INTERRUPTING CAPACITY	LPW	LUMENS PER WATT
AL	ALUMINUM	LTG	LIGHTING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LTS	LIGHTS
		LV	LOW VOLTAGE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MA	MILLI-AMPERES
		MACH	MACHINE
AT	AMPERE TRIP	MAX	MAXIMUM
ATC	AUTOMATIC TEMPERATURE CONTROL	MC	METAL-CLAD
AV, A/V	AUDIO/VIDEO	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCCB	MOLDED CASE CIRCUIT BREAKER
BIL	BASIC INSULATION LEVEL	MCS	MOLDED CASE SWITCH
BKR	BREAKER	MD	MARYLAND
BMS	BUILDING MANAGEMENT SYSTEM	MDP	MAIN DISTRIBUTION PANELBOARD
C	CONDUIT	MECH	MECHANICAL
CAT	CATEGORY	MGMT	MANAGEMENT
CB	CIRCUIT BREAKER	MH	MOUNTING HEIGHT
CCT	CORRELATED COLOR TEMPERATURE	MIN	MINIMUM
CEE	CONSORTIUM FOR ENERGY EFFICIENCY	MLO	MAIN LUGS ONLY
CIRC	CIRCUIT	MM	MILLI-METER
CKT	CIRCUIT	MTD	MOUNTED
CL	CENTER LINE	MULTI	MULTIPLE
CMU	CONCRETE MASONRY UNIT	N	NEUTRAL, NORMAL, NORTH
CNTRL	CONTROL	N.C.	NORMALLY CLOSED
CO	CARBON MONOXIDE	NEC	NATIONAL ELECTRICAL CODE
COMBO	COMBINATION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CRI	COLOR RENDERING INDEX		
CT	CURRENT TRANSFORMER	NF	NON FUSED
CU	COPPER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
D	DEEP, DEPTH		
dB	DECIBEL (A SCALE)	NIC	NOT IN CONTRACT
DB	DUCT BANK	NL	NIGHT LIGHT
DC	DIRECT CURRENT	NM	NON-METALLIC
DIAM	DIAMETER	N.O.	NORMALLY OPEN
DIM	DIMMING	NO.	NUMBER
DIV	DIVISION	NTS	NOT TO SCALE
DLC	DESIGN LIGHTS CONSORTIUM	OAU	OUTSIDE AIR UNIT
DMX	DIGITAL MULTIPLEX	O.C.	ON CENTER
DN	DOWN	OIT	OFFICE OF INFORMATION TECHNOLOGY
DPL	DELMARVA POWER & LIGHT	OS	OCCUPANCY SENSOR
DPDT	DOUBLE-POLE, DOUBLE-THROW	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
DPST	DOUBLE-POLE, SINGLE-THROW		
DWG	DRAWING	P	POLE(S)
DWH	DOMESTIC WATER HEATER	PBB	PRIMARY BONDING BUSBAR
EC	ELECTRICAL CONTRACTOR	PC	PHOTOCELL
EC	EMPTY CONDUIT	PF	POWER FACTOR
EC	ENCLOSED CONTACTOR	PH	PHASE
EF	EXHAUST FAN	PIR	PASSIVE INFRARED
EFF	EFFICIENCY	PNL	PANEL
E.G.	EXAMPLE GIVEN	POE	POWER OVER ETHERNET
EGB	ELECTRIC GROUNDING BUSBAR	PP	POWER PACK
ELEC	ELECTRIC	PSI	POUNDS PER SQUARE INCH
ELTS	EMERGENCY LIGHTING SYSTEM TRANSFER	PT	POTENTIAL TRANSFORMER
		PVC	POLYVINYL CHLORIDE
EM	EMERGENCY	PWR	POWER
EMER	EMERGENCY	PZ	POWER ZONE
EMT	ELECTRICAL METALLIC TUBING	QTY	QUANTITY
EPO	EMERGENCY POWER OFF	RCPT	RECEPTACLE(S)
EPA	ENVIRONMENTAL PROTECTION AGENCY	RGS	RIGID GALVANIZED STEEL
		RM	ROOM
EPS	ELECTRONIC PROGRAMMED START	RMS	ROOT MEAN SQUARE
EQ	EQUAL	RNC	RIGID NONMETALLIC CONDUIT
EQUIP	EQUIPMENT	SBB	SECONDARY BONDING BUSBAR
ER	EQUIPMENT RACK	SCCR	SHORT CIRCUIT CURRENT RATING
ERHP	ELECTRIC RADIANT HEAT PANEL	SD	SELF-DIAGNOSTICS
ETC	ETCETERA	SD	SMOKE DETECTOR
EXTR	EXISTING TO REMAIN	SD	STEP DIMMING
EUH	ELECTRIC UNIT HEATER	SMR	SURFACE METAL RACEWAY
EWC	ELECTRIC WATER COOLER	SPD	SURGE PROTECTIVE DEVICE
EXEXST	EXISTING	SS	SAFETY SWITCH
EXT	EXTERIOR	SS	STAINLESS STEEL
F	FUSED	ST	SHUNT TRIP
FA	FIRE ALARM	SVC	SOUND VIDEO CONTROL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SW	SWITCH, SOUTHWEST
FAC	FACULTY	T	TELEPHONE, TRANSFORMER
FACP	FIRE ALARM CONTROL PANEL	TBD	TO BE DETERMINED
FL/FLR	FLOOR	TC	TELECOMMUNICATIONS CLOSET
FM	FIRE MARSHAL	TEL/TELE	TELEPHONE
FMC	FLEXIBLE METAL CONDUIT	TEMP	TEMPORARY, TEMPERATURE
FREQ	FREQUENCY	THD	TOTAL HARMONIC DISTORTION
FT	FEET	TPS	TRAFFIC PRIMING STATION
G	GROUND,GFCI	TR	TAMPER RESISTANT
GBB	GROUNDING BUSBAR	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	U.O.N.	UNLESS OTHERWISE NOTED
GND	GROUND	US	ULTRASONIC
GRD	GROUND	V	VOLTS
GY	GROUNDED-WYE	VA	VOLT-AMPERES
H	HEIGHT	VF	VENTILATION FAN
HDPE	HIGH DENSITY POLYETHYLENE	VIA	BY THE WAY OF
HOA	HAND-OFF-AUTOMATIC	W	WIRE, WIDTH, WEST
HP	HORSEPOWER / HEAT PUMP	W/	WITH
HPI	HEAT PUMP INDOOR	WG	WIREGUARD
HPO	HEAT PUMP OUTDOOR	WO	WORK ORDER
HVAC	HEATING VENTILATION AIR CONDITIONING	WP	WEATHERPROOF
		WR	WEATHER RESISTANT
HZ	HERTZ	XFMR	TRANSFORMER
ID	IDENTIFICATION	Y	WYE
I.E.	THAT IS	Z	IMPEDANCE
IES/IESNA	ILLUMINATING ENGINEERING SOCIETY (OF NORTH AMERICA)	Δ	DELTA
		YR	YEAR
ISOL	ISOLATED	©	COPYRIGHT
IT&T.	INFORMATION TECHNOLOGY	%	PERCENT
JB	JUNCTION BOX	'	FEET
K	KELVIN	"	INCHES
K	THOUSAND	+/-	PLUS OR MINUS
KCMIL	THOUSAND CIRCULAR MILS	ø	PHASE
KV	KILOVOLT	&	AND
KVA	KILOVOLT AMPERES	#	NUMBER
KW	KILOWATTS		

GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT CONCEALED ABOVE CEILING WITH (2) 12 AWG + (1) 12 AWG GROUND IN 3/4" CONDUIT U.O.N.
	BRANCH CIRCUIT CONCEALED IN OR UNDER FLOOR SLAB WITH (2) 12 AWG + (1) 12 AWG GROUND IN 3/4" CONDUIT U.O.N.
	LOW VOLTAGE WIRING
L1A1-1	HOMERUN TO PANELBOARD - SINGLE CIRCUIT - LETTERS INDICATE PANELBOARD DESINGATION AND NUMBER INDICATES CIRCUIT DESIGNATION, WITH (1) PHASE + (1) NEUTRAL + (1) GROUNDING CONDUCTOR IN 3/4" CONDUIT U.O.N. (NOTE: CONDUCTOR SIZE DEPENDENT ON HOMERUN LENGTH, REFER TO SPECIFICATIONS)
L1A1-1/3 L1A1-2/4/6	HOMERUN TO PANELBOARD - TWO-POLE CIRCUIT, THREE-POLE CIRCUIT - LETTERS INDICATE PANELBOARD DESIGNATION AND NUMBERS INDICATE CIRCUIT DESIGNATION, WITH (1) PHASE CONDUCTOR PER POLE + (1) GROUNDING CONDUCTOR IN 3/4" CONDUIT PER CIRCUIT U.O.N. (NOTE: CONDUCTOR SIZE DEPENDENT ON HOMERUN LENGTH, REFER TO SPECIFICATIONS)
L1A1-5,7,9	HOMERUN TO PANELBOARD - MULTIPLE CIRCUITS - NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, LETTERS INDICATE PANELBOARD DESIGNATION, WITH (1) PHASE + (1) NEUTRAL + (1) GROUNDING CONDUCTOR IN 3/4" CONDUIT PER CIRCUIT U.O.N. (NOTE: CONDUCTOR SIZE DEPENDENT ON HOMERUN LENGTH, REFER TO SPECIFICATIONS)
	EQUIPMENT CONNECTION
	CONDUIT UP
	CONDUIT DOWN
J	JUNCTION BOX
	ENCLOSURE OR CABINET AS NOTED
#	DRAWING NOTE - NEW WORK
#	DRAWING NOTE - DEMOLITION
#V####	FEEDER DESIGNATION NUMBER - SEE LOW VOLTAGE FEEDER SCHEDULE
D#	DUCTBANK DESIGNATION NUMBER - SEE DUCTBANK SCHEDULE
X PART PLAN NO. X.XX DRAWING NO.	PART PLAN DESIGNATION

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

SINGLE LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	SAFETY/DISCONNECT SWITCH - FUSIBLE, NON-FUSIBLE - SINGLE LINE REPRESENTATION
M	ELECTRICITY METER
	FUSE
#P #A	CIRCUIT BREAKER - TOP NUMBER INDICATES NUMBER OF POLES, BOTTOM NUMBER INDICATES TRIP RATING

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

WIRE SIZE TABLE

HOME RUN LENGTH AND WIRE SIZE		CIRCUIT LENGTH AND WIRE SIZE	
120 VOLT		120 VOLT	
0 - 60'	12 AWG	0 - 100'	12 AWG
60 - 100'	10 AWG	100' & UP	10 AWG
100' & UP	8 AWG		

CONDUCTOR DE-RATING SCHEDULE

CIRCUIT BREAKER AMPACITY RATING	CONDUCTOR SIZE (AWG)	
	NO MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A CABLE OR RACEWAY	NO MORE THAN TWENTY (20) CURRENT CARRYING CONDUCTORS IN A CABLE OR RACEWAY
15	12 AWG	12 AWG
20	12 AWG	10 AWG
30	10 AWG	8 AWG
40	8 AWG	6 AWG
50	6 AWG	4 AWG
60	6 AWG	3 AWG

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
D	TAMPER-RESISTANT DUPLEX RECEPTACLE - FOR TYPE 'D' TECHNOLOGY DROP - M.H. 18" AFF U.O.N. - SEE TECHNOLOGY DWGS
DD DD	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - FOR TYPE 'DD' TECH DROP - M.H. 18" AFF U.O.N. - SEE TECH DWGS
PR	TAMPER-RESISTANT DUPLEX RECEPTACLE - FOR TYPE 'PR' TECH DROP - CEILING MOUNTED - SEE TECHNOLOGY DWGS
D	TAMPER-RESISTANT DUPLEX RECEPTACLE - FOR TYPE 'D' TECH DROP - CEILING MOUNTED - SEE TECHNOLOGY DWGS
M	TAMPER-RESISTANT DOUBLE DUPLEX RECEPTACLE - FOR TYPE 'M' TECH DROP - M.H. 72" AFF U.O.N. - SEE TECHNOLOGY DWGS
Q Q	TWO (2) TAMPER-RESISTANT DOUBLE DUPLEX RECEPTACLES - FOR TYPE 'Q' TECH DROP - M.H. 18" AFF U.O.N. - SEE TECH DWGS
TV	TAMPER-RESISTANT DOUBLE DUPLEX RECEPTACLE - FOR TV DISPLAY - M.H. 84" AFF U.O.N. - SEE TECHNOLOGY DRAWINGS
PBB	TELECOMMUNICATIONS PRIMARY BONDING BUS BAR

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	RECESSED LIGHTING FIXTURE - 2x4 - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	RECESSED LIGHTING FIXTURE - 2x2 - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	WALL-MOUNTED LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	PENDANT-MOUNT LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	DOWNLIGHT LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
E ER	EMERGENCY LIGHTING UNIT - INTEGRAL BATTERY, REMOTE - M.H. 7'-6" AFF U.O.N. - LETTER INDICATES FIXTURE TYPE
X1 X2 X3	EXIT SIGN - CEILING-MOUNTED, WALL-MOUNTED, WITH DIRECTIONAL ARROWS AS INDICATED/REQUIRED - LETTER INDICATES FIXTURE TYPE - M.H. 7'-6" AFF U.O.N.
X1 X2	EXIT SIGN - CEILING-MOUNTED, WALL-MOUNTED, WITH INTEGRAL EMERGENCY LIGHTING HEADS - LETTER INDICATES FIXTURE TYPE - M.H. 7'-6" AFF U.O.N.
$ $3	SWITCH - SINGLE POLE, 3-WAY - M.H. 42" TO BOTTOM, 48" TO TOP
$LV $NW	NETWORK WALL SWITCH - M.H. 42" TO BOTTOM, 48" TO TOP - TOP NUMBER INDICATES NUMBER OF ZONES CONTROLLED AND DIMMING, IF APPLICABLE - SEE NETWORK WALL SWITCH SCHEDULE
$OS	WALL SWITCH OCCUPANCY SENSOR - SINGLE RELAY - DUAL TECHNOLOGY SENSING - M.H. 42" TO BOTTOM, 48" TO TOP
OS	OCCUPANCY SENSOR - CEILING MOUNTED - NUMBER INDICATES TYPE - ARROWS INDICATE COVERAGE AND AIM - SEE OCCUPANCY SENSOR SCHEDULE
OSV	OCCUPANCY/VACANCY SENSOR - WALL MOUNTED - NUMBER INDICATES TYPE - ARROW INDICATES COVERAGE AND AIM - SEE OCCUPANCY SENSOR SCHEDULE
PPD PPE	POWER PACK RELAY MODULE - DIMMING, EMERGENCY - SEE POWER PACK SCHEDULE

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

POWER LEGEND

SYMBOL	DESCRIPTION
	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - M.H. 18" AFF U.O.N.
	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - M.H. 6" ABOVE COUNTER OR 42" AFF U.O.N., 48" AFF MAX.
G G	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - GFCI TYPE - M.H. 18" AFF U.O.N.
WP WP	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - WEATHER-RESISTANT GFCI TYPE WITH WEATHERPROOF WHILE-IN-USE COVER - M.H. 18" AFF U.O.N.
WR WR	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - WEATHER-RESISTANT - M.H. 18" AFF U.O.N.
U U	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - USB CHARGING OUTLET TYPE - M.H. 18" AFF U.O.N.
FC FC	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - FULLY-CONTROLLED TYPE - M.H. 18" AFF U.O.N.
HC HC	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - HALF-CONTROLLED TYPE - M.H. 18" AFF U.O.N.
C	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE, ONE FULLY-CONTROLLED RECEPTACLE AND ONE STANDARD RECEPTACLE IN THE SAME OUTLET BOX - M.H. 18" AFF U.O.N.
	DUPLEX RECEPTACLE - MOUNTED IN FLUSH-MOUNTED SINGLE DEVICE FLOOR BOX
PPL	POWER PACK RELAY MODULE - PLUG LOAD CONTROL - SEE POWER PACK SCHEDULE
FB# FB#	DUPLEX, DOUBLE DUPLEX RECEPTACLE - MOUNTED IN FLUSH-MOUNTED MULTIPLE SERVICE FLOOR BOX, TOP NUMBER INDICATES NUMBER OF COMPARTMENTS, BOTTOM NUMBER INDICATES CIRCUIT DESIGNATION
14 2DR	SPECIAL PURPOSE RECEPTACLE OUTLET - NEMA CONFIGURATION AS NOTED - M.H. 18" AFF U.O.N.
	PANELBOARD - 120/208V - SURFACE-MOUNTED, FLUSH-MOUNTED, TOP 6'-6" AFF
	ENCLOSURE OR CABINET AS NOTED
FUSE	SPARE FUSE CABINET - TOP 5'-6" AFF
KEY	SPARE KEY CABINET - TOP 5'-6" AFF
	SAFETY SWITCH - FUSED, NON-FUSED - 30A, 3 POLE, 600V, NEMA 1 U.O.N. - TOP 5'-6" AFF U.O.N.
	MAGNETIC MOTOR CONTROLLER - NEMA SIZE 1 - TOP 5'-6" AFF U.O.N.
	COMBINATION MAGNETIC MOTOR CONTROLLER - NEMA SIZE 1 STARTER WITH 30A, 3 POLE, 600V FUSED SAFETY SWITCH IN NEMA 1 ENCLOSURE U.O.N. - TOP 5'-6" AFF U.O.N.
$L $L2	TOGGLE SWITCH - SINGLE POLE, TWO POLE - HORSEPOWER RATED, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
$P $P2	TOGGLE SWITCH - PILOT LIGHTED TYPE, LIT WHEN "ON" - SINGLE POLE, TWO POLE - HORSEPOWER RATED, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
$M	MANUAL MOTOR CONTROLLER - SINGLE POLE - 20A, 120-277VAC, WITH H.O.A. SWITCH AND LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
$J2 $J3	MANUAL MOTOR SWITCH - TWO POLE, THREE POLE - 30A, 600VAC, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
	GROUNDING ELECTRODE
EPO EGO EUO WH	EMERGENCY PUSH-BUTTON - [POWER], [GAS], [UTILITIES], [WATER HEATER] - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP - LETTER INDICATES TYPE
	ELECTRIC HEAT TRACE TAPE
T	ELECTRIC HEAT TRACE THERMOSTAT
SV	SOLENOID VALVE
VFD	VARIABLE FREQUENCY DRIVE
ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
EGB	ELECTRICAL GROUNDING BUS BAR
	MOTOR - GENERIC - REFER TO FLOOR PLANS FOR MOTOR DESIGNATION
CR	SECURITY SYSTEM - CARD READER - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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LEGEND AND ABBREVIATIONS ELECTRICAL

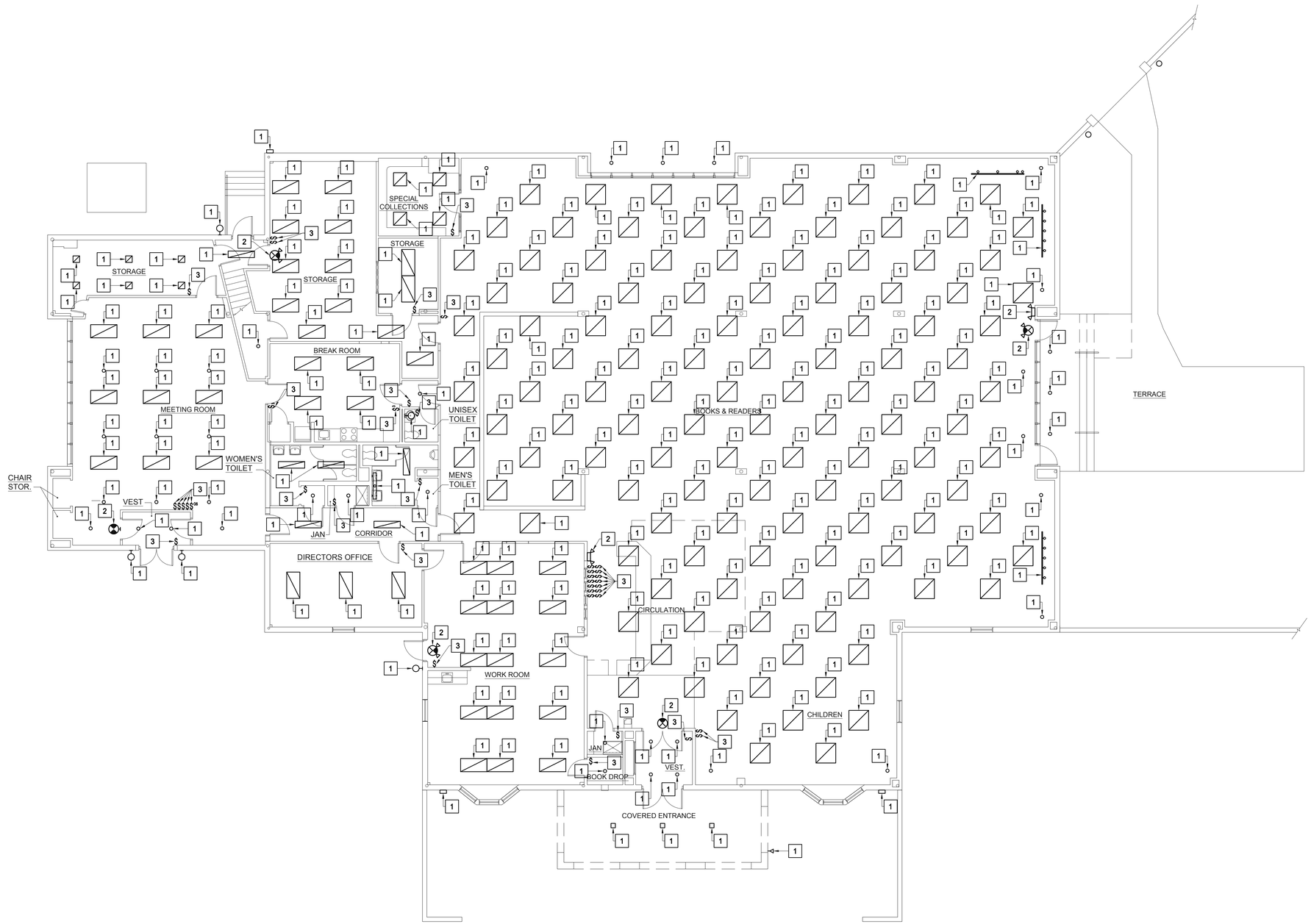
Dwg.No.: **E001**

GENERAL NOTES:
(APPLY TO ALL DEMOLITION DRAWINGS)

1. EQUIPMENT, DEVICE, AND FIXTURE LAYOUTS ARE BASED ON FIELD OBSERVATIONS. E.C. IS RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL LIGHTING FIXTURES, DEVICES, AND ASSOCIATED WIRES, BOXES, RACEWAYS, SUPPORT HARDWARE, ETC. BACK TO SOURCE THROUGHOUT THE ENTIRE BUILDING.

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. DISCONNECT, REMOVE, AND DISPOSE OF LIGHTING FIXTURE. REMOVE ASSOCIATED WIRES, BOXES, RACEWAYS, SWITCHES, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
2. DISCONNECT, REMOVE, AND DISPOSE OF EMERGENCY LIGHTING FIXTURE/EXIT SIGN. REMOVE ASSOCIATED WIRES, BOXES, RACEWAYS, SWITCHES, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
3. DISCONNECT, REMOVE, AND DISPOSE OF TOGGLE SWITCH(ES). REMOVE ASSOCIATED WIRES, BOXES, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.



FIRST FLOOR PLAN - LIGHTING - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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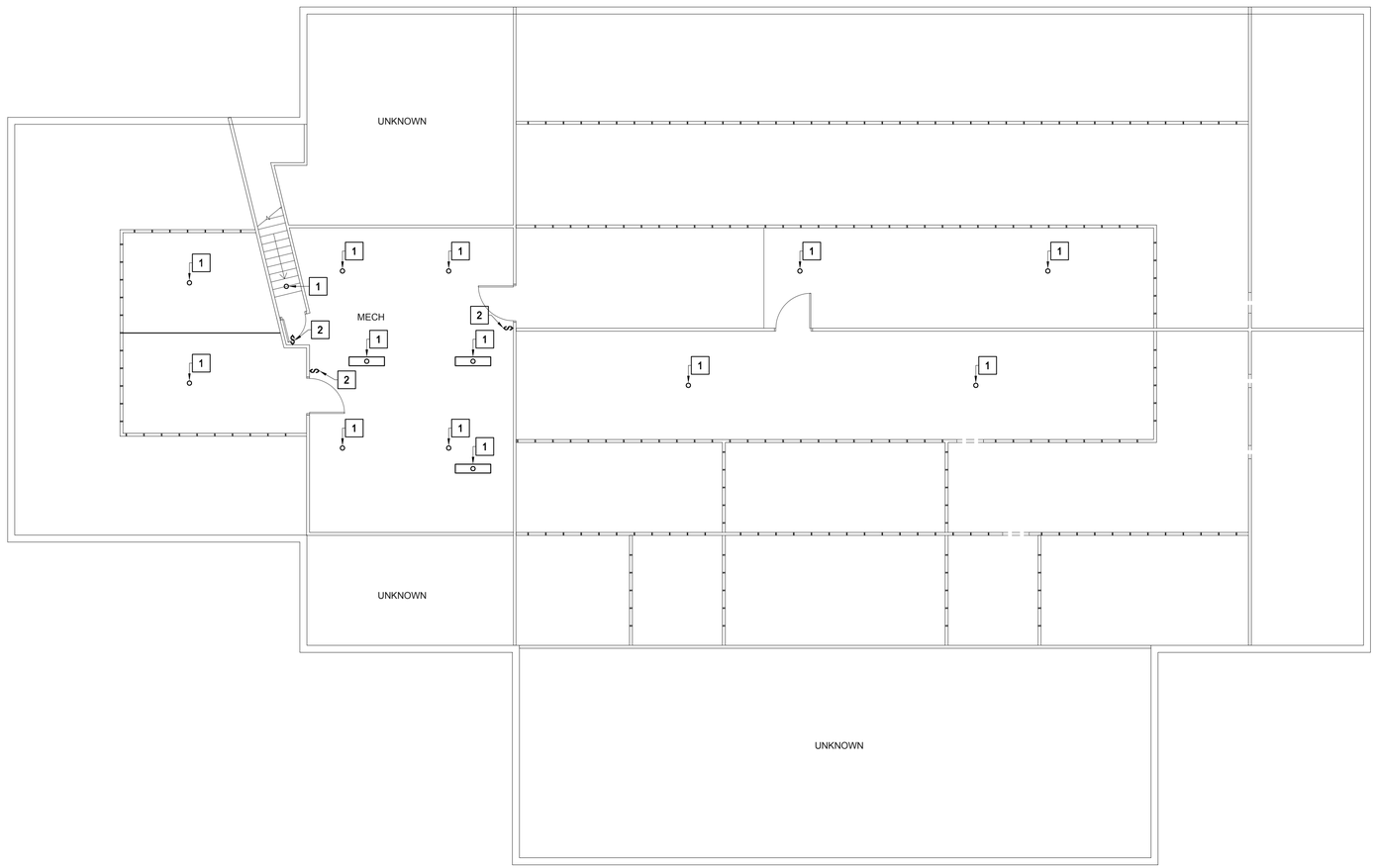
FIRST FLOOR PLAN LIGHTING DEMOLITION

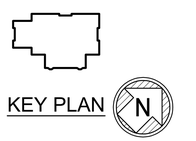
Dwg.No.:
EDL101

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. DISCONNECT, REMOVE, AND DISPOSE OF LIGHTING FIXTURE. REMOVE ASSOCIATED WIRES, BOXES, RACEWAYS, SWITCHES, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
2. DISCONNECT, REMOVE, AND DISPOSE OF TOGGLE SWITCH(ES). REMOVE ASSOCIATED WIRES, BOXES, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.



ATTIC FLOOR PLAN - LIGHTING - DEMOLITION



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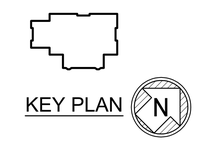
ATTIC FLOOR PLAN LIGHTING DEMOLITION

Dwg.No.:
EDL102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. BACK TO SOURCE.
2. MECHANICAL EQUIPMENT TO REMAIN BUT PANELBOARD SERVING THE SAME IS BEING DISPOSED. RETAIN ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, AND DISCONNECTING MEANS FOR RECONNECTION TO NEW PANELBOARD UNDER NEW WORK. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
3. MECHANICAL EQUIPMENT TO REMAIN BUT PANELBOARD SERVING THE SAME IS BEING DISPOSED. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. BACK TO SOURCE.

FIRST FLOOR PLAN - MECHANICAL POWER - DEMOLITION



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FIRST FLOOR PLAN MECHANICAL POWER DEMOLITION

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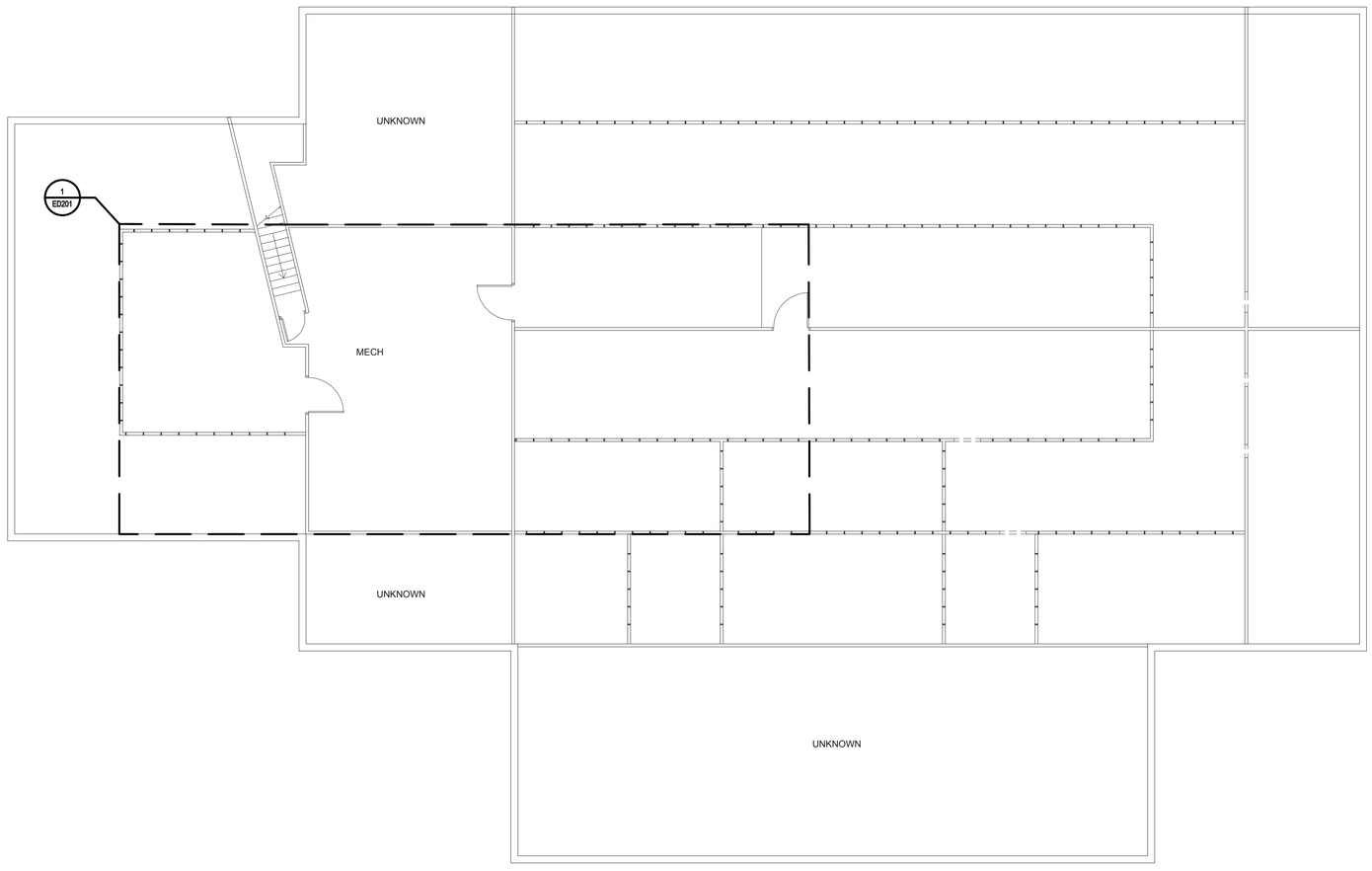

ATTIC FLOOR PLAN - MECHANICAL POWER - DEMOLITION

N

KEY PLAN

N

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
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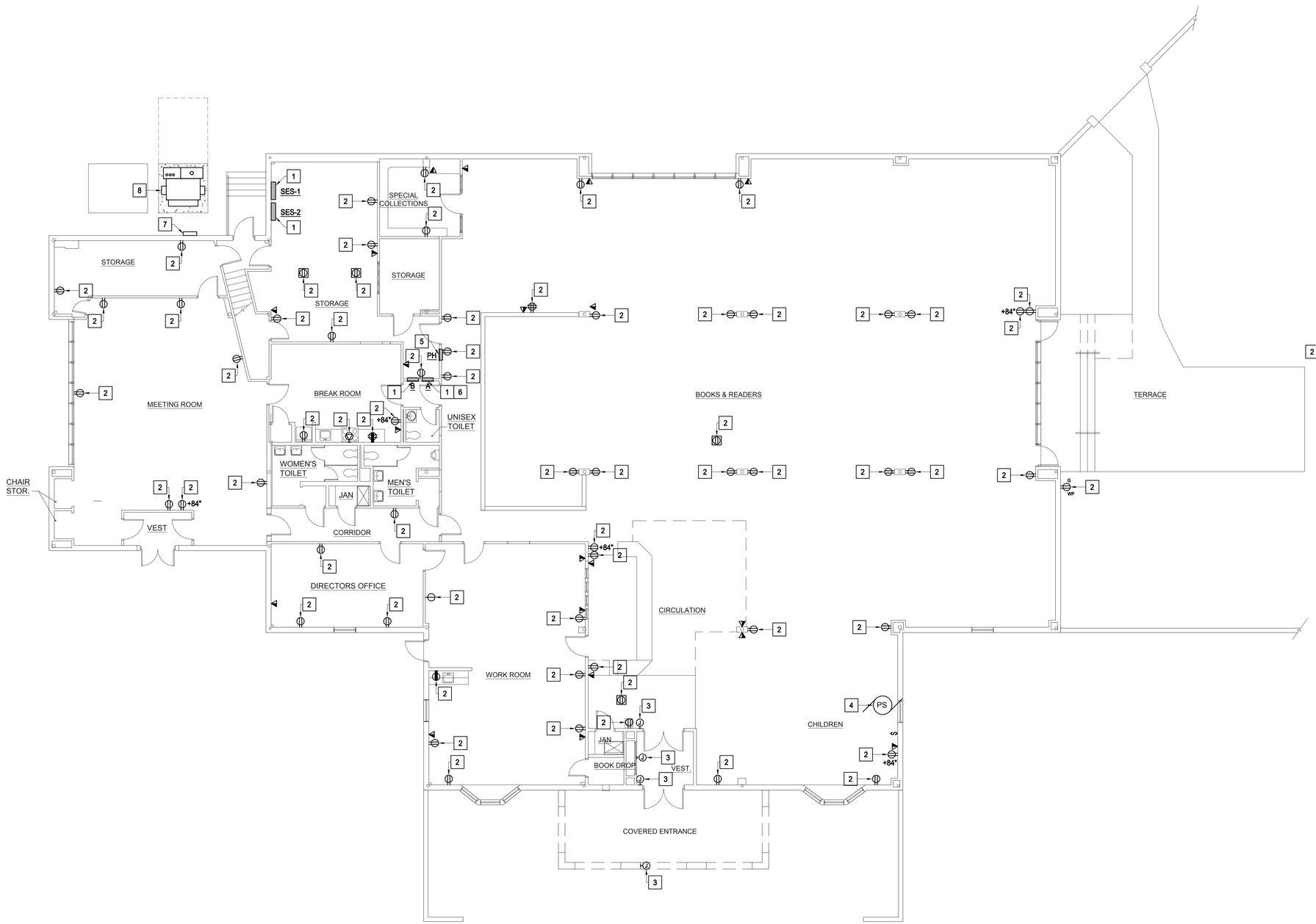
ATTIC FLOOR PLAN MECHANICAL POWER DEMOLITION

Dwg.No.:
EDM102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD. REMOVE ALL ASSOCIATED FEEDERS, BRANCH-CIRCUIT WIRES, RACEWAYS, CONTROL RELAYS/CONTACTORS, AND SUPPORT HARDWARE BACK TO SOURCE.
2. DISCONNECT, REMOVE, AND DISPOSE OF RECEPTACLES. REMOVE ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
3. DISCONNECT, REMOVE, AND DISPOSE OF JUNCTION BOX. REMOVE ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
4. DISCONNECT, REMOVE, AND DISPOSE OF PROJECTOR SCREEN. REMOVE ALL ASSOCIATED CABLING, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
5. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD. REMOVE ALL ASSOCIATED FEEDERS, BRANCH-CIRCUIT WIRES, RACEWAYS, CONTROL RELAYS/CONTACTORS, AND SUPPORT HARDWARE BACK TO SOURCE FOR ALL HVAC EQUIPMENT REMOVED. RETAIN ALL BRANCH-CIRCUIT WIRES, AND RACEWAYS FOR HVAC EQUIPMENT THAT IS TO REMAIN FOR RECONNECTION TO NEW PANELBOARD UNDER NEW WORK.
6. INTERCEPT/PROVIDE NEW WIRING AS REQUIRED TO CONNECT EXISTING SITE LIGHTING, WALL MOUNTED FIXTURES AT EXTERIOR DOORS, AND SIGN & FLAGPOLE LIGHTING TO LIGHTING CONTROL PANEL LCP-1 AND PANELBOARD L1A.
7. DISCONNECT, REMOVE, AND DISPOSE OF UTILITY METERS. COORDINATE WORK WITH DELMARVA POWER.
8. DISCONNECT ELECTRICAL CONNECTIONS TO DELMARVA POWER TRANSFORMER. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. BACK TO SOURCE. COORDINATE ALL WORK WITH DELMARVA POWER.



FIRST FLOOR PLAN - POWER - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS · ENGINEERS · SURVEYORS
EASTON, MARYLAND 410.770.4744
SALISBURY, MARYLAND 410.543.9091
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ENGINEER
Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-6688
Fax (410) 822-6306
WO# 24038

SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

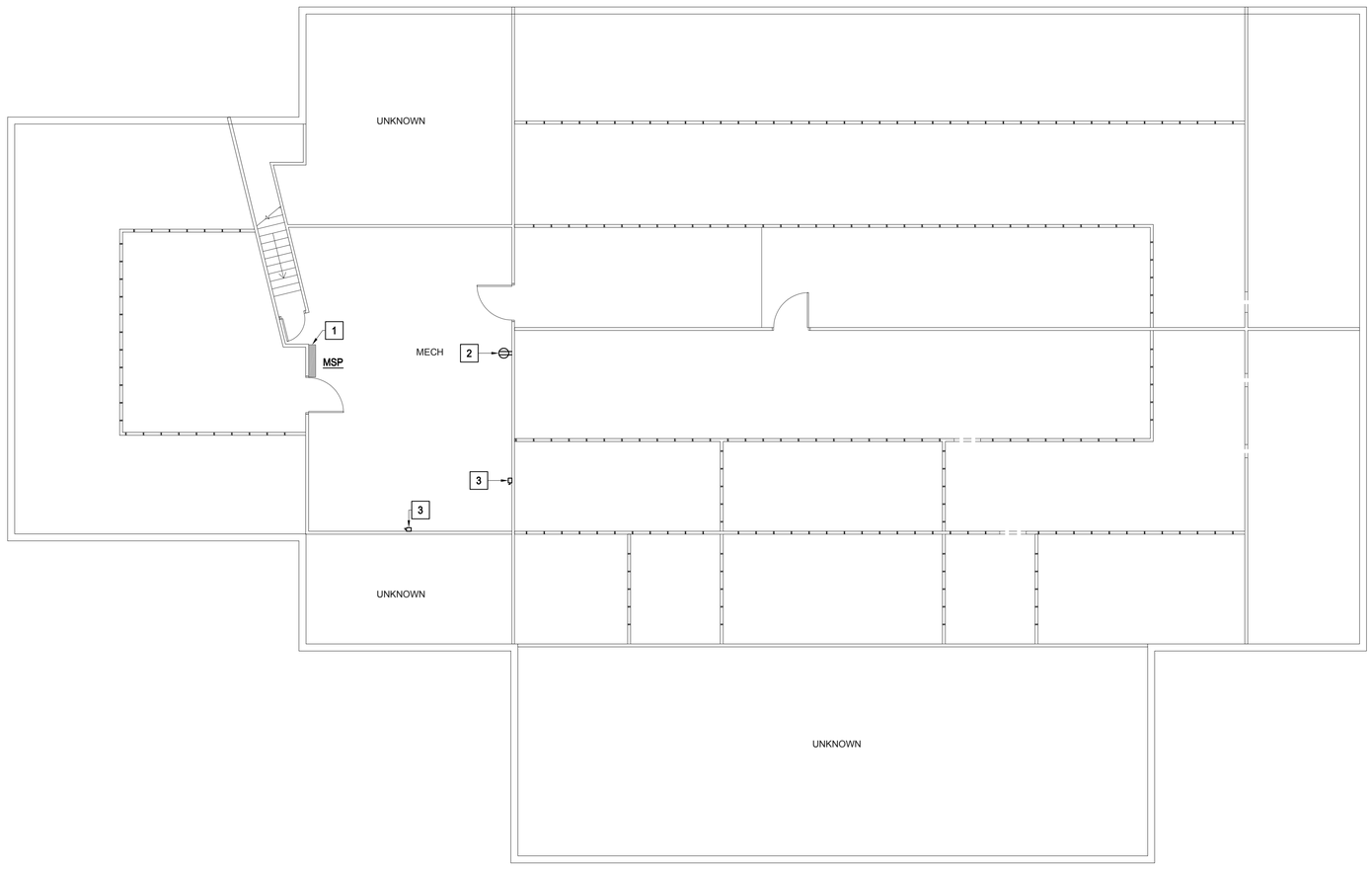
Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: TMC
Proj.No.: 0085B054.A01

FIRST FLOOR PLAN POWER DEMOLITION

Dwg.No.:
EDP101

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. EXISTING PANELBOARD TO REMAIN. REMOVE ASSOCIATED FEEDER BUT RETAIN BRANCH-CIRCUIT WIRES, RACEWAYS, CONTROL RELAYS/CONTACTORS, AND SUPPORT HARDWARE BACK TO SOURCE.
2. DISCONNECT, REMOVE, AND DISPOSE OF RECEPTACLES. REMOVE ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
3. DISCONNECT, REMOVE, AND DISPOSE OF ELECTRICAL EQUIPMENT. REMOVE ALL ASSOCIATED CABLING, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.



ATTIC FLOOR PLAN - POWER - DEMOLITION

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. HOFFMAN
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Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: TMC
Proj.No.: 0085B054.A01

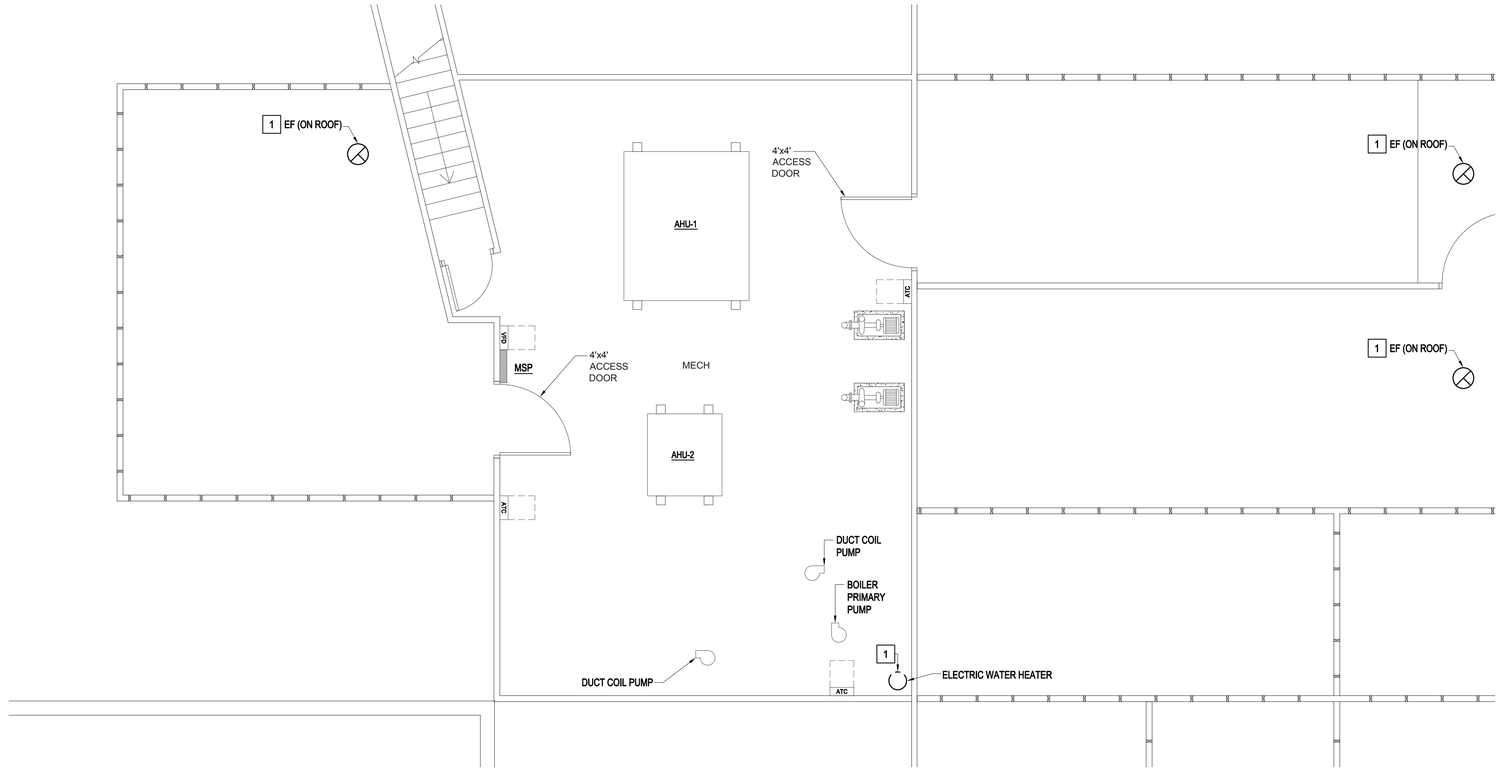
ATTIC FLOOR PLAN POWER DEMOLITION

Dwg.No.:

EDP102

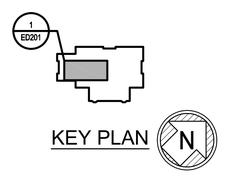
DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1 DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. BACK TO SOURCE.



1 / ED201 PART PLAN - ELECTRICAL- DEMOLITION

N



KEY PLAN N

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

4 0 4 8

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

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307 N WASHINGTON ST
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: TMC
Proj.No.: 0085B054.A01

PART PLAN ELECTRICAL DEMOLITION

Dwg.No.:
ED201

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 225 MAIN LUGS ONLY
A.I.C. RATING: --

DEMOLITION

EXISTING PANELBOARD (NOTES 1-4): **A**
LOCATION: CORRIDOR

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	MAIN LIBRARY LIGHTS	--	x	x	2	1	20	MAIN LIBRARY LIGHTS	--	x	x
3	1	20	MAIN LIBRARY LIGHTS	x	--	x	4	1	20	MAIN LIBRARY LIGHTS	x	--	x
5	1	20	MAIN LIBRARY LIGHTS	x	x	--	6	1	20	MAIN LIBRARY LIGHTS	x	x	--
7	1	20	MAIN LIBRARY LIGHTS	--	x	x	8	1	20	MAIN LIBRARY LIGHTS	--	x	x
9	1	20	MAIN LIBRARY LIGHTS	x	--	x	10	1	20	PROJECTION SCREEN IN CHILD'S RM.	x	--	x
11	1	20	LIGHTS OVER FRONT DESK	x	x	--	12	1	20	LIGHTS IN CHILD'S RM.	x	x	--
13	1	20	SM. LIGHTS IN MAIN LIBRARY	--	x	x	14	1	20	SPARE	--	x	x
15	1	20	SPARE	x	--	x	16	1	20	LIGHTS IN VESTIBULE	x	--	x
17	1	20	LIGHTS IN WORK RM.	x	x	--	18	1	20	LIGHTS IN LIBRARY AND WORK RM.	x	x	--
19	1	20	LIGHTS IN BATHROOM	--	x	x	20	1	20	LIGHTS IN STAFF RM.	--	x	x
21	1	20	LIGHTS IN BOOK MOBILE RM.	x	--	x	22	1	20	LIGHTS IN MEETING RM.	x	--	x
23	1	20	LIGHTS IN PROJ. RM. AND STAIRS	x	x	--	24	1	20	LIGHTS IN BACK VESTIBULE	x	x	--
25	1	20	SPARE	--	x	x	26	1	20	SPARE	--	x	x
27	1	20	SPARE	x	--	x	28	1	20	SPARE	x	--	x
29				x	x	--	30	1	20	SPARE	x	x	--
31	3	20	BATHROOM FAN	--	x	x	32	1	20	SPARE	--	x	x
33				x	--	x	34	1	20	SPARE	x	--	x
35			SPACE	x	x	--	36			SPACE	x	x	--
37			SPACE	--	x	x	38			SPACE	--	x	x
39			SPACE	x	--	x	40	2	20	EXISTING CIRCUIT	x	--	x
41			SPACE	x	x	--	42				x	x	--
			SUBTOTALS (NOTE 3):	--	--	--				SUBTOTALS (NOTE 3):	--	--	--

MOUNTING: --
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY (NOTE 3)

PHASE:	A	B	C	TOTAL
TOTAL KVA:	--	--	--	--
DEMAND KVA:				--
TOTAL AMPERES:				

NOTES:
1. EXISTING PANELBOARD IS GENERAL ELECTRIC, TYPE NLAB, STYLE 5.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING CIRCUIT DIRECTORY AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
4. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD AND ASSOCIATED WIRING.

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 100 MAIN LUGS ONLY
A.I.C. RATING: --

DEMOLITION

EXISTING PANELBOARD (NOTES 1-4): **B**
LOCATION: CORRIDOR

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	RCPT - SPECIAL RM.	--	x	x	2	1	20	RCPT - WALLS OF MAIN LIBRARY	--	x	x
3	1	20	RCPT - WALLS OF MAIN LIBRARY	x	--	x	4	1	20	RCPT - ONST AFF RM. WALLS	x	--	x
5	1	20	SPARE	x	x	--	6	1	20	RCPT - LIBRARIANS OFFICE	x	x	--
7	1	20	RCPT - WORK RM.	--	x	x	8	1	20	RCPT - RECEPTIONIST'S DESK	--	x	x
9	1	20	RCPT - AIDS WALL	x	--	x	10	1	20	RCPT - OUT SIDE RECEPTION	x	--	x
11	1	20	RCPT - VESTIBULE FLOOR	x	x	--	12	1	20	RCPT - CHILDREN'S RM.	x	x	--
13	1	20	RCPT - ON COLUMNS	--	x	x	14	1	20	RCPT - ON COLUMNS	--	x	x
15	1	20	RCPT - ON COLUMNS	x	--	x	16	1	20	RCPT - MEETING ROOM	x	--	x
17	1	20	RCPT - TELEPHONE	x	x	--	18	1	20	RCPT - REJECTION MACHINE	x	x	--
19	1	20	RCPT - PROJECTION RM	--	x	x	20				--	x	x
21	1	30	RCPT - ZEROX COPIER	x	--	x	22	3	50	STOVE IN KITCHENETTE	x	--	x
23	1	30	COMPUTER NETWORK	x	x	--	24				x	x	--
25	1	20	EXISTING CIRCUIT	--	x	x	26	1	20	FIRE ALARM PANEL	--	x	x
27			SPACE	x	--	x	28			SPACE	x	--	x
29			SPACE	x	x	--	30			SPACE	x	x	--
			SUBTOTALS (NOTE 3):	--	--	--				SUBTOTALS (NOTE 3):	--	--	--

MOUNTING: --
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY (NOTE 3)

PHASE:	A	B	C	TOTAL
TOTAL KVA:	--	--	--	--
DEMAND KVA:				--
TOTAL AMPERES:				

NOTES:
1. EXISTING PANELBOARD IS GENERAL ELECTRIC, TYPE NLAB, STYLE 5.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING CIRCUIT DIRECTORY AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
4. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD AND ASSOCIATED WIRING.

EXISTING MOTOR CONTROL CENTER MSP - DEMOLITION (NOTE 4)

VOLTAGE: 120/208V, 3-PHASE, 4-WIRE
AMPERAGE: 225
MAINS: MAIN LUGS ONLY
A.I.C. RATING: --

MOUNTING: PAD-MOUNTED
ENCLOSURE: NEMA 1
OPTIONS: +GRD
LOCATION: MECH

DISTRIBUTION CIRCUIT NO.	DESCRIPTION (NOTE 2)	CONNECTED LOAD KILO-VOLT AMPERES (kVA) (NOTE 3)	CONNECTED LOAD AMPERES (A) (NOTE 3)	CIRCUIT BREAKER NO. POLES	CIRCUIT BREAKER TRIP RATING	CIRCUIT BREAKER FRAME SIZE	CIRCUIT BREAKER MTG. HEIGHT (INCHES)	REMARKS
1	WATER HEATER	4.5	12.5	2	30	150		
2	HOT WATER PUMP 4	1.3	3.7	3	15	150		
3	RECEPTACLE AND ATTIC EXHAUST FAN			1	20	150		
4	BOILER AND BAS CONTROLS	1.8	5.0	1	20	150		
5	SPARE			3	40	150		
6	AHU 2	2.8	7.8	3	20	150		
7	CHILLED WATER PUMP 1	2.8	7.8	3	30	150		
8	CHILLED WATER PUMP 2			3	30	150		
9	AHU 1	22.4	62.2	3	100	150		
	TOTALS	35.8	98.9					

NOTES:
1. EXISTING MOTOR CONTROL CENTER IS GENERAL ELECTRIC (GE), TYPE CCB, STYLE 2.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING RECORD DRAWINGS AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED.
4. SCHEDULE IS SHOWN FOR REFERENCE AS NO DEMOLITION WORK AFFECTS MOTOR CONTROL CENTER.

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 600 MAIN CIRCUIT BREAKER
A.I.C. RATING: --

DEMOLITION

EXISTING DISTRIBUTION PANELBOARD (NOTES 1-4): **SES #1**
LOCATION: STORAGE

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1			SPACE	--	x	x	2	3	200	PANELBOARD 'PH'	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
3	3	300	EXISITING AIR COOLED CHILLER-1	--	x	x	4	3	100	AC-1	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
5	3	200	PANELBOARD 'MCC MSP'	--	x	x	6			SPACE	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
			SUBTOTALS (NOTE 3):	--	--	--				SUBTOTALS (NOTE 3):	--	--	--

MOUNTING: --
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY (NOTE 3)

PHASE:	A	B	C	TOTAL
TOTAL KVA:	--	--	--	--
DEMAND KVA:				--
TOTAL AMPERES:				

NOTES:
1. EXISTING DISTRIBUTION PANELBOARD IS GENERAL ELECTRIC, TYPE CCB, STYLE 2.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING CIRCUIT DIRECTORY AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
4. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD AND ASSOCIATED WIRING.

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 400 MAIN CIRCUIT BREAKER
A.I.C. RATING: --

DEMOLITION

EXISTING DISTRIBUTION PANELBOARD (NOTES 1-4): **SES #2**
LOCATION: STORAGE

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1			SPACE	--	x	x	2	3	100	PANEL 'B'	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
3	3	150	PANEL 'A'	--	x	x	4			SPACE	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
5			SPACE	--	x	x	6			SPACE	--	x	x
				x	--	x					x	--	x
				x	x	--					x	x	--
			SUBTOTALS (NOTE 3):	--	--	--				SUBTOTALS (NOTE 3):	--	--	--

MOUNTING: --
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY (NOTE 3)

PHASE:	A	B	C	TOTAL
TOTAL KVA:	--	--	--	--
DEMAND KVA:				--
TOTAL AMPERES:				

NOTES:
1. EXISTING DISTRIBUTION PANELBOARD IS GENERAL ELECTRIC, TYPE CCB, STYLE 2.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING CIRCUIT DIRECTORY AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
4. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD AND ASSOCIATED WIRING.

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 225 MAIN LUGS ONLY
A.I.C. RATING: --

DEMOLITION

EXISTING PANELBOARD (NOTES 1-4): **PH**
LOCATION: STORAGE RM

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	HEATER	--	x	x	2				--	x	x
3	1	20	HEATER	x	--	x	4	3	30	AIR CONDITIONER	x	--	x
5	1	20	HEATER	x	x	--	6				x	x	--
7	1	20	HEATER	--	x	x	8	1	20	UNKNOWN	--	x	x
9				x	--	x	10	1	20	FRONT DOOR	x	--	x
11	3	30	AIR CONDITIONER	x	x	--	12				x	x	--
13				--	x	x	14	3	40	HEATER	--	x	x
15	1	20	HEATER	x	--	x	16				x	--	x
17	1	20	UNKNOWN	x	x	--	18	1	20	HEATER	x	x	--
19	1	20	HEATER	--	x	x	20	1	20	HEATER	--	x	x
21	1	20	HEATER	x	--	x	22	1	20	HEATER	x	--	x
23	1	20	FRONT SIGN AND FLAG POLE LIGHTS	x	x	--	24	1	20	HEATER	x	x	--
25	1	20	BURG PANEL	--	x	x	26	1	20	HEATER	--	x	x
27	2	20	HEATER	x	--	x	28	2	20	HEATER (CEILING)	x	--	x
29				x	x	--	30				x	x	--
31	2	20	HEATER (CEILING)	--	x	x	32	2	20	HEATER	--	x	x
33				x	--	x	34				x	--	x
35	2	20	TRANSFORMERS	x	x	--	36	2	20	HEATER (CEILING)	x	x	--
37				--	x	x	38				--	x	x
39	2	20	HEATER	x	--	x	40	2	20	NEW ROOM LIGHTS	x	--	x
41				x	x	--	42				x	x	--
			SUBTOTALS (NOTE 3):	--	--	--				SUBTOTALS (NOTE 3):	--	--	--

MOUNTING: FLUSH
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY (NOTE 3)

PHASE:	A	B	C	TOTAL
TOTAL KVA:	--	--	--	--
DEMAND KVA:				--
TOTAL AMPERES:				

NOTES:
1. EXISTING PANELBOARD IS GE, TYPE NLAB, STYLE 5.
2. CIRCUIT DESCRIPTIONS WERE COPIED FROM EXISTING CIRCUIT DIRECTORY AND HAVE NOT BEEN VERIFIED FOR ACCURACY.
3. CONNECTED LOADS OF EXISTING CIRCUITS WERE NOT DETERMINED.
4. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD. RETAIN BRANCH CIRCUIT WIRING FOR ALL EXIST ING HVAC EQUIPMENT TO REMAIN.

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

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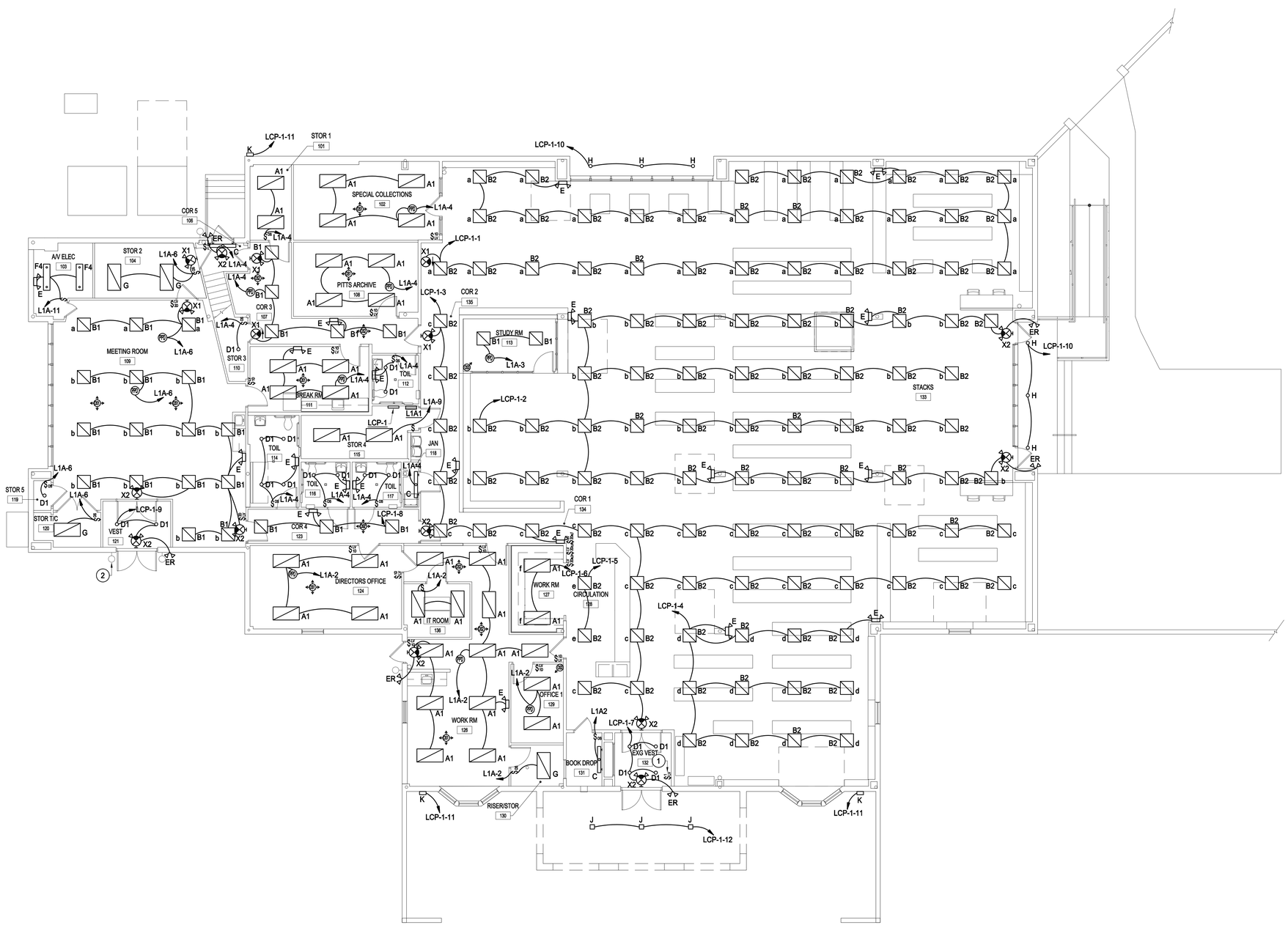
SCHEDULES ELECTRICAL DEMOLITION

Dwg.No.:
ED501



FIRST FLOOR PLAN - LIGHTING - NEW WORK

GENERAL NOTES:

(APPLY TO ALL DRAWINGS)

1. CONTROL WIRING FOR SWITCHES, OCCUPANCY/VACANCY SENSORS, DAYLIGHT SENSORS, AND 0-10V DIMMING RELAYS IS NOT SHOWN ON FLOOR PLANS. REFER TO DETAILS FOR TYPICAL WIRING DIAGRAMS. PROVIDE ALL CONTROL WIRING REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
2. LIGHTING BRANCH CIRCUITS WITH 0-10V CONTROLS SHALL USE LUMINAIRE CABLE WHERE MC CABLE WOULD BE USED (E.G. ABOVE ACCESSIBLE CEILINGS). SUPPORTING CONTROL WIRING TO MC CABLE IS NOT PERMITTED PER NEC 300.12.
3. EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND OTHER CEILING DEVICES.
5. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND OTHER WALL MOUNTED DEVICES.
6. POWER PACK(S) ARE SHOWN ADJACENT TO LIGHTING FIXTURES BEING SERVED FOR DRAWING CLARITY ONLY. GROUP POWER PACKS TOGETHER ABOVE CEILING AS REQUIRED.
7. MOUNTING HEIGHT INDICATED ON LIGHTING FIXTURE/DEVICE IS TO THE BOTTOM OF THE LIGHTING FIXTURE/DEVICE FOR SUSPENDED ITEMS AND TO THE CENTER OF THE LIGHTING FIXTURE/DEVICE FOR WALL MOUNTED ITEMS.

DRAWING NOTES:

(APPLY TO THIS DRAWING ONLY)

1. NETWORK LIGHTING OVERRIDE SWITCH. REFER TO LIGHTING SEQUENCES FOR ADDITIONAL INFORMATION.
2. EXISTING FIXTURE AND ASSOCIATED EXISTING WIRING TO BE CONNECTED TO LCP-1 AND PANELBOARD L1A. (TYPICAL OF 4)

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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Proj.No.: 0085B054.A01

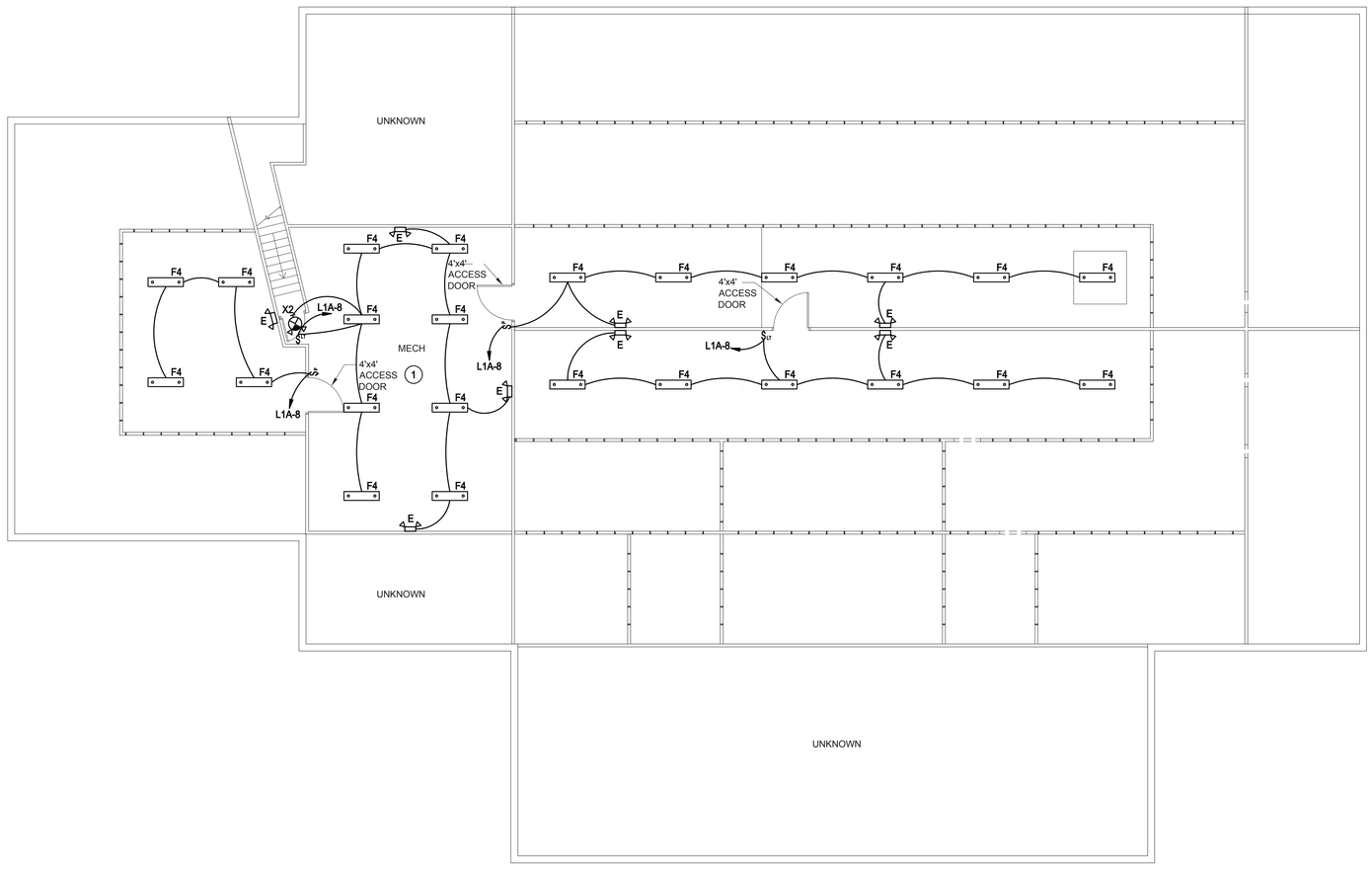
FIRST FLOOR PLAN LIGHTING NEW WORK

Dwg.No.:

EL101

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. INSTALL LIGHT FIXTURES APPROXIMATELY 9'-0" AFF. FIELD COORDINATE EXACT LOCATIONS OF FIXTURES WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL EQUIPMENT, RACEWAYS, ETC.



ATTIC FLOOR PLAN - LIGHTING - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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ATTIC FLOOR PLAN LIGHTING NEW WORK

Dwg.No.: **EL102**

GENERAL NOTES:
(APPLY TO ALL MECHANICAL POWER DRAWINGS)

1. MOTOR SWITCHES AND/OR CONTROLLERS INDICATED ON OR NEXT TO MECHANICAL EQUIPMENT SHALL BE INSTALLED ADJACENT TO THE EQUIPMENT BEING SERVED. PROVIDE UNISTRUT FRAMING AS REQUIRED.
2. FIELD-COORDINATE LOCATIONS OF MOTOR SWITCHES, MOTOR CONTROLLERS, AND DISCONNECT SWITCHES SERVING MECHANICAL EQUIPMENT SUCH THAT ALL MANUFACTURER'S AND CODE REQUIRED CLEARANCES ARE MAINTAINED.
3. REFER TO POWER FLOOR PLAN DRAWINGS FOR CONNECTIONS TO ELECTRIC WATER COOLERS.

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. PROVIDE 30 AMPERE, 2 POLE, 240 VOLT FUSIBLE HEAVY DUTY SAFETY SWITCH IN NEMA 3R ENCLOSURE, MOUNTED ON U-CHANNEL SUPPORT PER DETAIL. PROVIDE FUSES PER EQUIPMENT NAMEPLATE DATA.
2. (2) 10 AWG PHASE + (1) 10 AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT.
3. EXTEND WIRING PER EQUIPMENT WIRING DIAGRAM IN 3/4" CONDUIT TO HPI-1 LOCATED IN A/V ELEC 103 AS REQUIRED BY MANUFACTURER.
4. EXTEND WIRING PER EQUIPMENT WIRING DIAGRAM IN 3/4" CONDUIT TO HPO-1 LOCATED BY EXTERIOR OF BUILDING AS REQUIRED BY MANUFACTURER.
5. EXTEND WIRING PER EQUIPMENT WIRING DIAGRAM IN 3/4" CONDUIT TO HPI-2 LOCATED IN IT ROOM 136 AS REQUIRED BY MANUFACTURER.
6. EXTEND WIRING PER EQUIPMENT WIRING DIAGRAM IN 3/4" CONDUIT TO HPO-2 LOCATED OUTSIDE OF MEETING ROOM 109 AS REQUIRED BY MANUFACTURER.
7. EXISTING MECHANICAL EQUIPMENT. INTERCEPT/EXTEND WIRING AS REQUIRED TO CONNECT UNIT TO PANEL M1A1. REFER TO NEW WORK SCHEDULES FOR ADDITIONAL INFORMATION.
8. PROVIDE 200 AMPERE, 3 POLE, 240 VOLT FUSIBLE HEAVY DUTY SAFETY SWITCH IN NEMA 3R ENCLOSURE, MOUNTED ON WALL. PROVIDE FUSES PER EQUIPMENT NAMEPLATE DATA.
9. EXISTING MECHANICAL EQUIPMENT. INTERCEPT/EXTEND WIRING AS REQUIRED TO CONNECT UNIT TO PANEL MDP. REFER TO NEW WORK SCHEDULES FOR ADDITIONAL INFORMATION.
10. (3) 3/0 AWG PHASE + (1) 6 AWG GROUNDING CONDUCTOR IN 2" CONDUIT.
11. PROVIDE 30 AMPERE, 2 POLE, 240 VOLT FUSIBLE HEAVY DUTY SAFETY SWITCH IN NEMA 3R ENCLOSURE, MOUNTED ON WALL. PROVIDE FUSES PER EQUIPMENT NAMEPLATE DATA.

HPO-1
M1A1-26,28
AIR COOLED CHILLER
MDP-6
ERHP-3
M1A1-14
A/V ELEC 103
HPI-1
STOR 2 104
COR 1 105
COR 5 106
STOR 1 101
ARCHIVE ROOM AHU-3
ELECTRIC STEAM HUMIDIFIER
SPECIAL COLLECTIONS 102
PITTS ARCHIVE 108
EUH
COR 3 107
MEETING ROOM 109
STOR 3 110
BREAK RM 111
TOIL 112
COR 2 135
STUDY RM 113
M1A1
TOIL 114
STOR 4 115
JAN 118
TPS-1
TOIL 116
TOIL 117
M1A1-16
COR 4 123
EF
COR 1 134
STACKS 133
EUH (ABOVE CEILING)
M1A1-26,28
STOR 5 119
STOR T/C 120
VEST 121
ERHP-4
STOR 6 122
HPO-2
DIRECTORS OFFICE 124
HPI-2
WORK RM 126
IT ROOM 136
WORK RM 127
CIRCULATION 128
OFFICE 1 129
TPS-3
M1A1-12
ERHP-1
M1A1-12
ERHP-2 BOOK DROP 131
EXG VEST 132
WALL HEATER
RISER/STOR 130

FIRST FLOOR PLAN - MECHANICAL POWER - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

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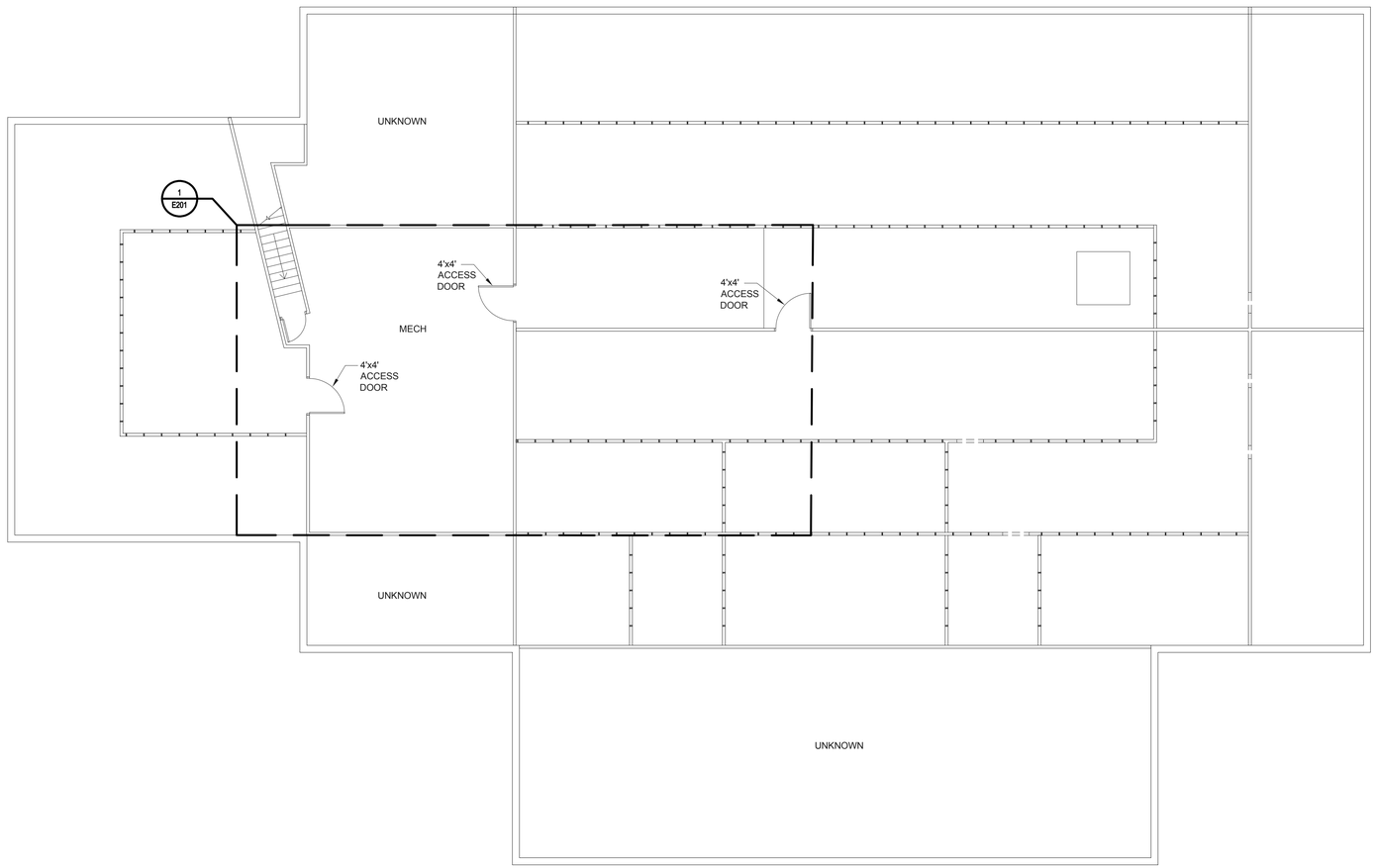
FIRST FLOOR PLAN MECHANICAL POWER NEW WORK

Dwg.No.: EM101



ATTIC FLOOR PLAN - MECHANICAL POWER - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

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ATTIC FLOOR PLAN MECHANICAL POWER NEW WORK

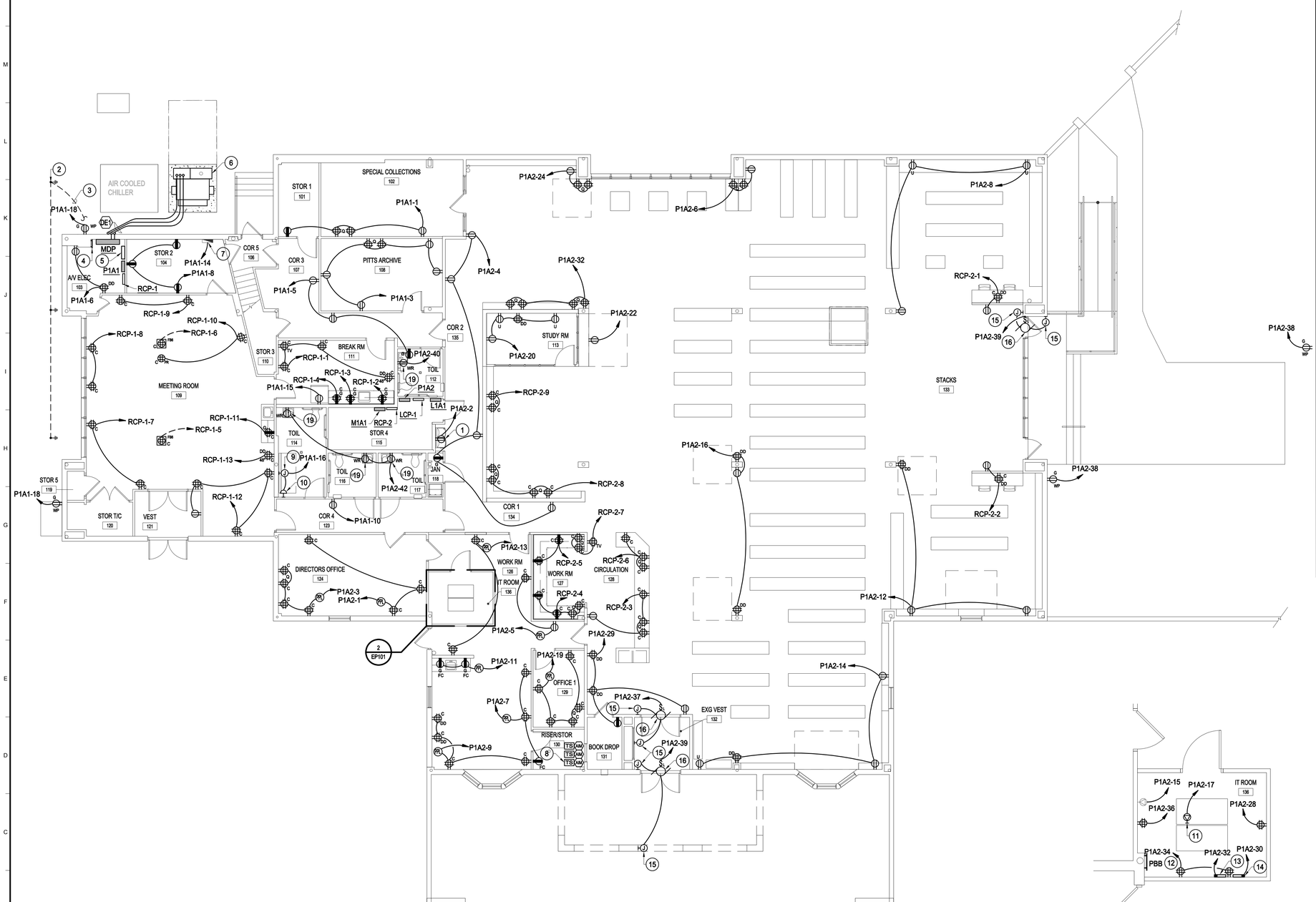
Dwg.No.:
EM102

GENERAL NOTES:
(APPLY TO ALL POWER DRAWINGS)

1. WHERE NEW RECEPTACLES ARE AT THE SAME LOCATION OF EXISTING RECEPTACLES, THE EXISTING BACK BOX CAN BE USED IF IT IS DEEP ENOUGH FOR DEVICE TO BE INSTALLED. IF BOX IS NOT DEEP ENOUGH THEN NEW BACK BOX SHALL BE PROVIDED.

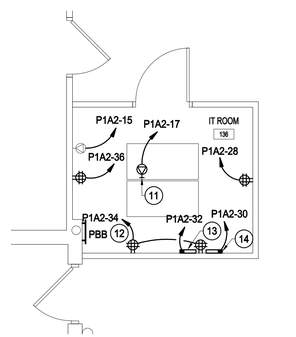
DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. PROVIDE 120V POWER CONNECTION FOR ELECTRIC WATER COOLER(S) PROVIDED UNDER DIVISION 22. COORDINATE INSTALLATION WITH DIVISION 22 CONTRACTOR.
2. PROVIDE GROUNDING RODS FOR GROUNDING TRIAD. EACH GROUND ROD SHALL HAVE A HANDHOLE TYPE "HG1" PER HANDHOLE SCHEDULE FOR TEST WELL. GROUND RODS SHALL BE 20'-0" ON CENTER. SEE DETAILS FOR ADDITIONAL INFORMATION.
3. (2) 2/0 AWG BARE TINNED CU GROUNDING CONDUCTORS IN 2" CONDUIT TO ELECTRICAL GROUND BUSBAR IN AV/ELEC 103.
4. ELECTRICAL GROUND BUSBAR (EGB). REFER TO DETAILS FOR ADDITIONAL INFORMATION.
5. METER ENCLOSURE. SEE ELECTRIC POWER AND ENERGY METER SCHEDULE AND NEW WORK SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. PROVIDE PRE-CAST EQUIPMENT PAD FOR NEW UTILITY TRANSFORMER PER DELMARVA POWER.
7. EXISTING FIRE ALARM CONTROL PANEL. CONNECT TO NEW PANELBOARD AS INDICATED ON PLANS.
8. MONITOR TAMPER SWITCHES FOR VALVES FOR FIRE PROTECTION BACKFLOW PREVENTOR AND CONNECT TO EXISTING FIRE ALARM CONTROL PANEL. RACEWAYS PROVIDED BY DIVISION 26 CONTRACTOR. (TYPICAL OF 3) COORDINATE WITH OWNER'S VENDOR FOR EXACT REQUIREMENTS.
9. PROVIDE JUNCTION BOX FOR POWER AND CONNECTION TO CHANGING STATION. COORDINATE LOCATION, MOUNTING HEIGHT AND INSTALLATION REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. CHANGING TABLE EMERGENCY STOP BUTTON PROVIDED WITH CHANGING TABLE AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WIRING FROM EMERGENCY STOP TO CHANGING TABLE PER MANUFACTURER'S INSTALLATION REQUIREMENTS. COORDINATE LOCATION AND MOUNTING HEIGHT OF EMERGENCY STOP BUTTON WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. NEMA L5-20 RECEPTACLE OUTLET, MOUNTED AT BOTTOM OF TELECOMMUNICATIONS EQUIPMENT RACK ADJACENT TO UPS EQUIPMENT. COORDINATE INSTALLATION WITH DIVISION 27 CONTRACTOR.
12. PROVIDE PRIMARY BONDING BUSBAR (PBB), REFER TO DETAILS FOR ADDITIONAL INFORMATION.
13. SECURITY PANEL PROVIDED BY OWNER'S VENDOR. MAKE FINAL CONNECTIONS TO PANEL PER MANUFACTURER'S INSTRUCTIONS.
14. ACCESS CONTROL PANEL PROVIDED BY OWNER'S VENDOR. MAKE FINAL CONNECTIONS TO PANEL PER MANUFACTURER'S INSTRUCTIONS.
15. FOR POWER ASSIST DOOR PUSH PADDLE FURNISHED UNDER DIVISION 08. FIELD COORDINATE EXACT LOCATION. MAKE FINAL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.
16. POWER ASSIST DOOR OPERATOR PROVIDED UNDER DIVISION 08. MAKE FINAL CONNECTIONS TO OPERATOR PER MANUFACTURER'S INSTRUCTIONS.
17. FOR POWER ASSIST DOOR PUSH PADDLE FURNISHED UNDER DIVISION 08. FIELD COORDINATE EXACT LOCATION. MAKE FINAL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. OMIT IF ALTERNATE IS NOT ACCEPTED.
18. POWER ASSIST DOOR OPERATOR PROVIDED UNDER DIVISION 08. MAKE FINAL CONNECTIONS TO OPERATOR PER MANUFACTURER'S INSTRUCTIONS. OMIT IF ALTERNATE IS NOT ACCEPTED.
19. RECEPTACLE OUTLET RESERVED FOR AUTOMATIC LAVATORY PLUG-IN POWER SUPPLY. SEE DETAILS FOR ADDITIONAL INFORMATION.



1 EP101 FIRST FLOOR PLAN - POWER - NEW WORK

SCALE: 1/8" = 1'-0"



2 EP101 PART PLAN - IT ROOM - POWER - NEW WORK

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

KEY PLAN

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

4 0 4 8

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
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No. 19755
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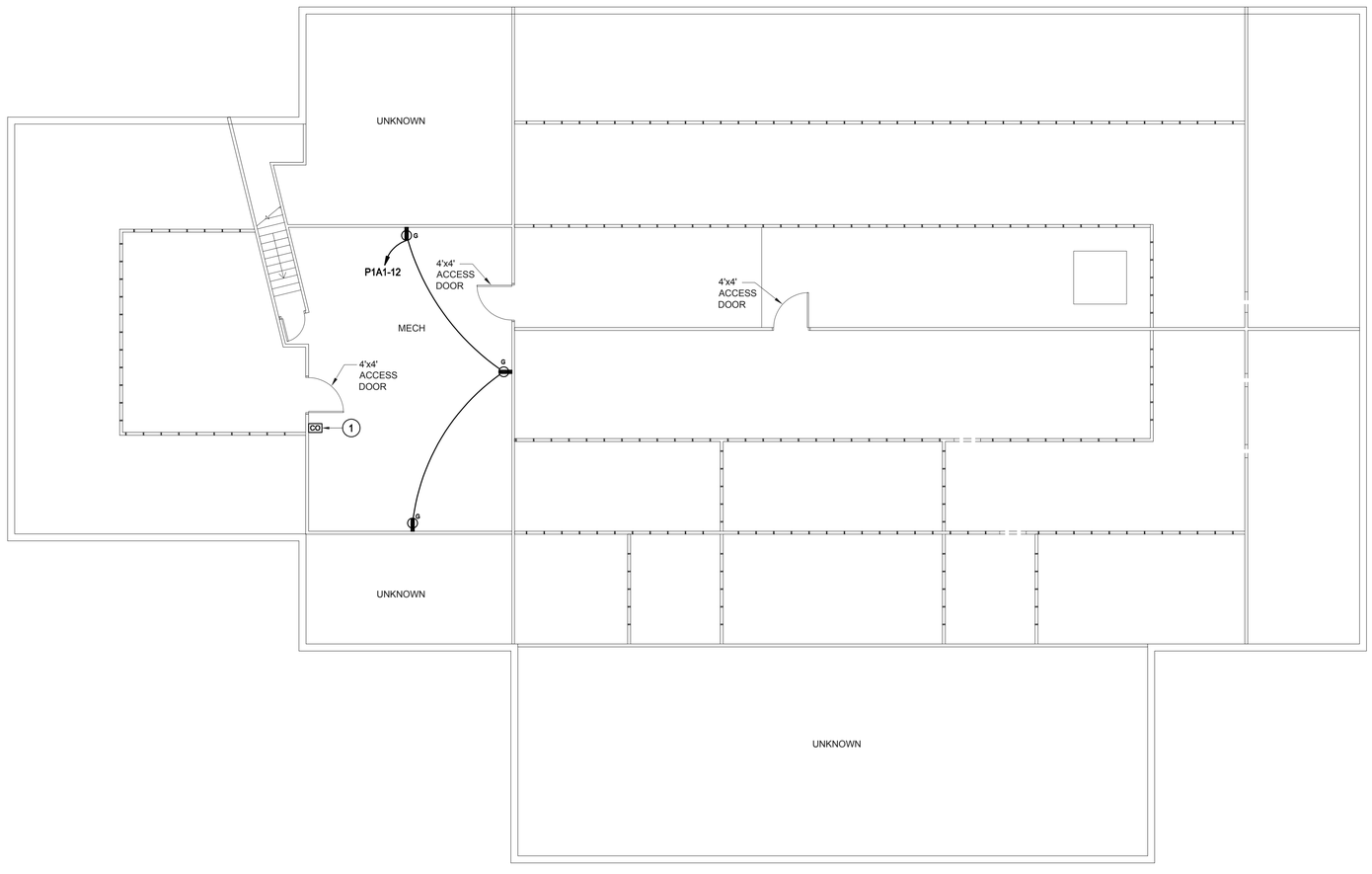
FIRST FLOOR PLAN POWER NEW WORK

Dwg.No.: EP101

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. CO DETECTOR PROVIDED BY OWNER'S FIRE ALARM VENDOR AND CONNECTED TO EXISTING FIRE ALARM CONTROL PANEL. RACEWAYS PROVIDED BY DIVISION 26 CONTRACTOR.



ATTIC FLOOR PLAN - POWER - NEW WORK

KEY PLAN

SCALE: 1/8" = 1'-0"

8 0 8 16

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

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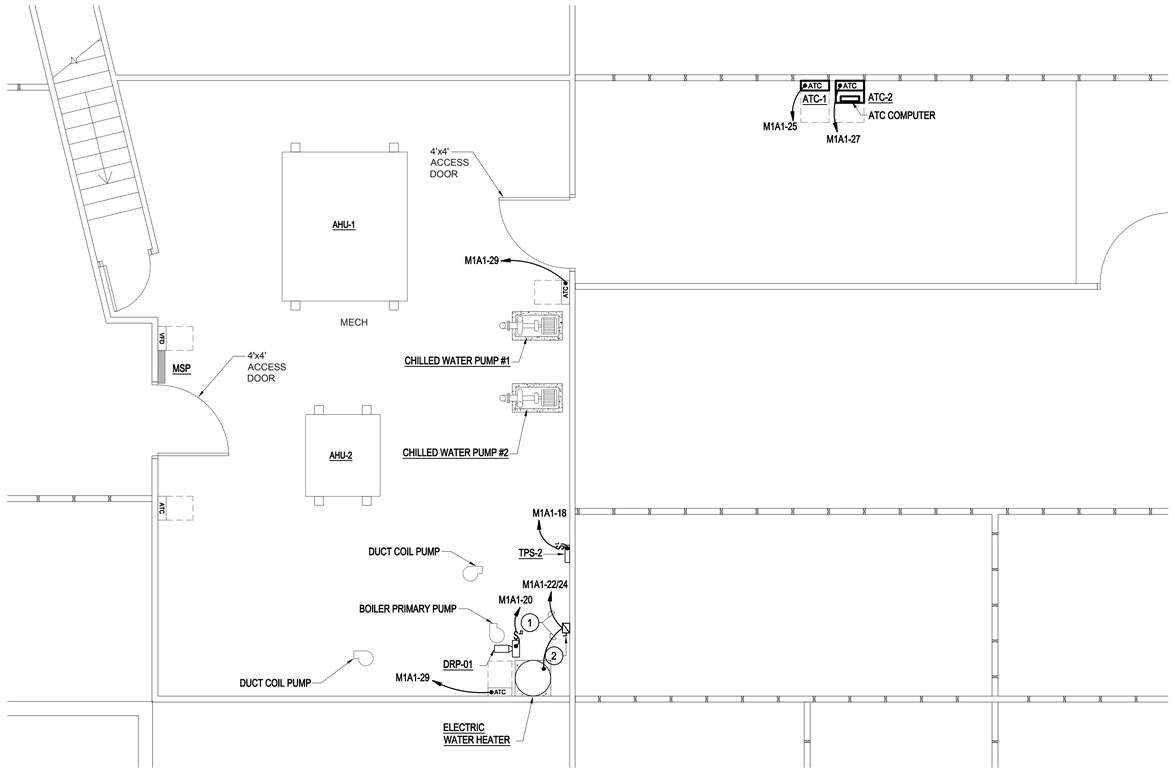
ATTIC FLOOR PLAN POWER NEW WORK

Dwg.No.:

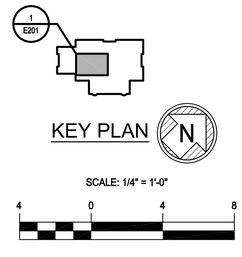
EP102

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. (2) 10 AWG PHASE + (1) 10 AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT.
2. PROVIDE 30 AMPERE, 2 POLE, 240 VOLT FUSIBLE SAFETY SWITCH IN NEMA 1 ENCLOSURE. PROVIDE FUSES PER EQUIPMENT NAMEPLATE DATA.



1 / E201 PART PLAN - ELECTRICAL - NEW WORK



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

4 0 4 8

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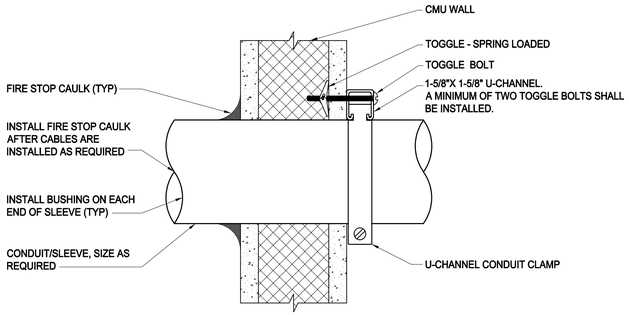
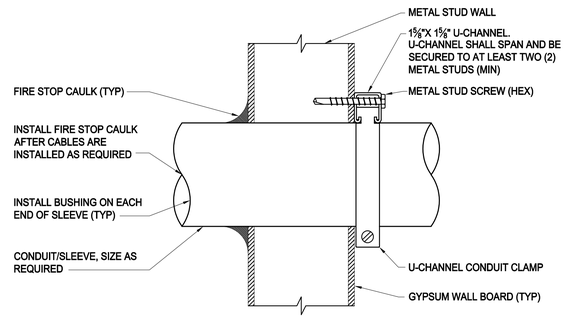
PART PLAN ELECTRICAL NEW WORK

Dwg.No.: **E201**



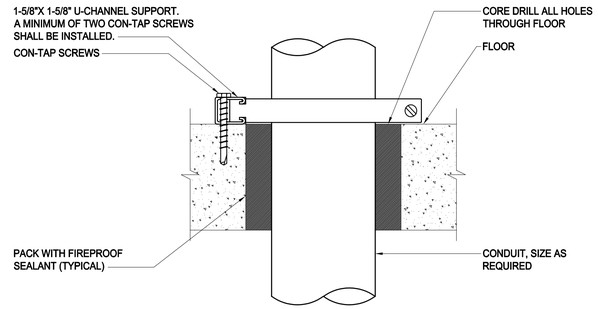
1 DETAIL - TYPICAL CONDUIT SLEEVE THROUGH INTERIOR CMU WALL

NO SCALE



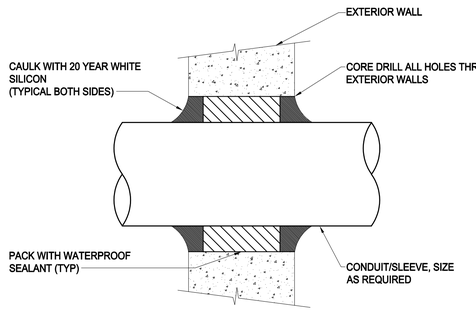
2 DETAIL - TYPICAL CONDUIT SLEEVE THROUGH INTERIOR STUD WALL

NO SCALE



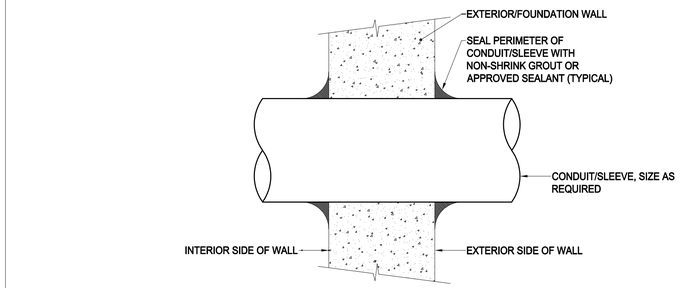
3 DETAIL - TYPICAL CONDUIT THROUGH FLOOR

NO SCALE



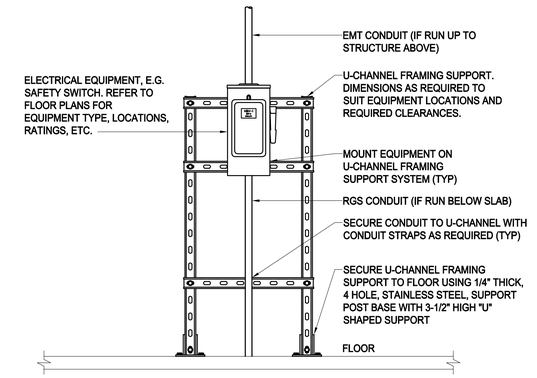
4 DETAIL - TYPICAL CONDUIT THROUGH EXTERIOR WALL - ABOVE GRADE

NO SCALE



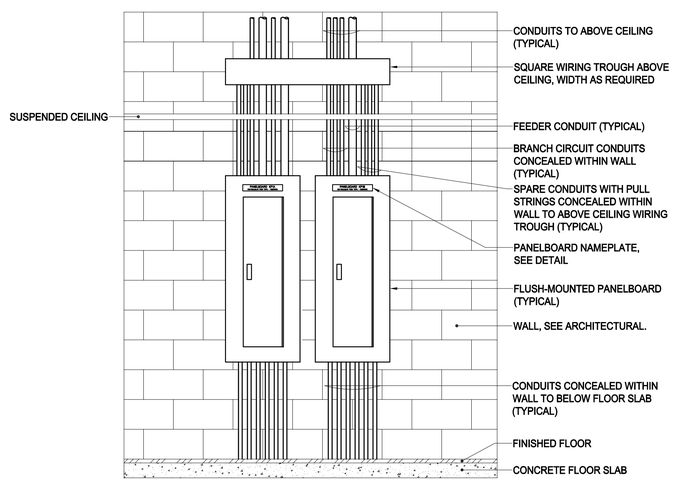
5 DETAIL - TYPICAL CONDUIT THROUGH EXTERIOR WALL - BELOW GRADE ON BOTH SIDES

NO SCALE



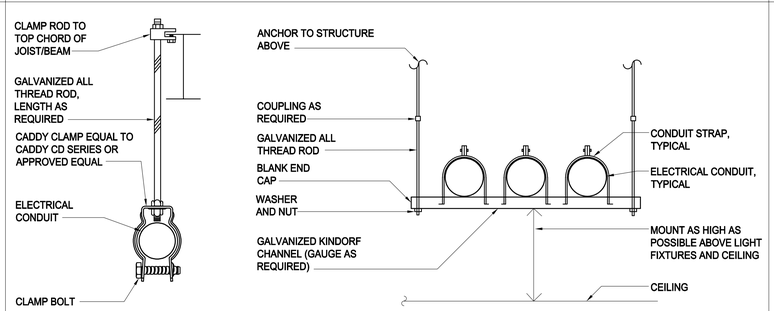
6 DETAIL - FREE-STANDING U-CHANNEL SUPPORT FOR ELECTRICAL EQUIPMENT

NO SCALE



7 INSTALLATION DETAIL - FRONT VIEW - FLUSH-MOUNTED PANELBOARD(S)

NO SCALE

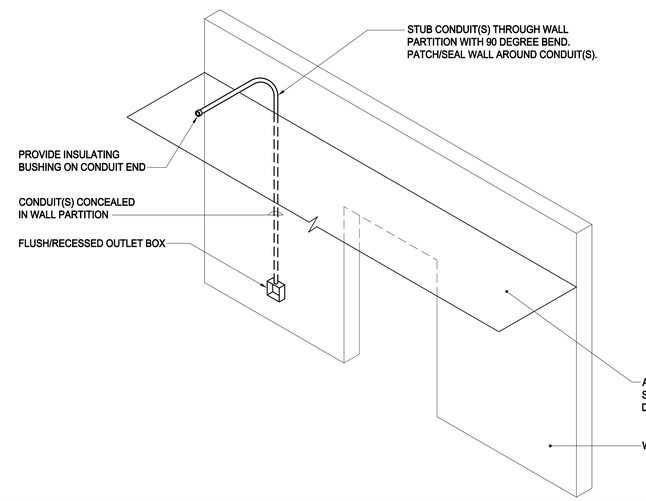


NOTES:

1. ALL ELECTRICAL HANGERS AND SUPPORT COMPONENTS IN DRY INTERIOR LOCATIONS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. ALL ELECTRICAL HANGERS AND SUPPORT COMPONENTS IN DAMP/WET LOCATIONS SHALL BE STAINLESS STEEL .
3. ALL EXPOSED CONDUIT HANGERS AND SUPPORTS SHALL BE PAINTED WITH RUST INHIBITING PAINT AS SPECIFIED, UNLESS OTHERWISE NOTED.

8 DETAIL - TYPICAL CONDUIT SUPPORT

NO SCALE



9 DETAIL - CONDUIT STUB ABOVE ACCESSIBLE CEILING

NO SCALE

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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Date: JANUARY 23, 2026
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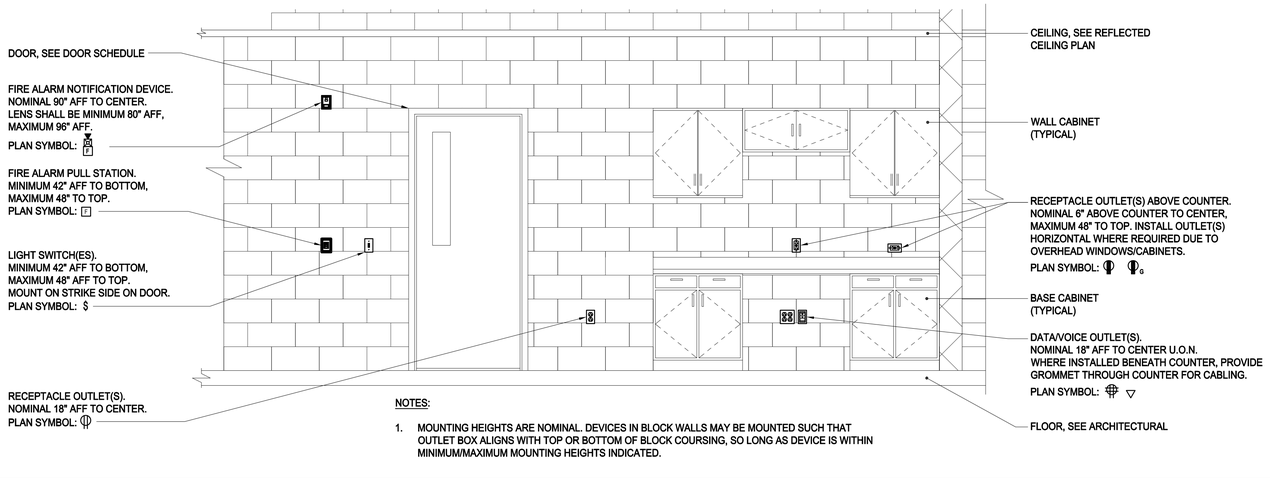
Dwn.By: TMC
Proj.No.: 0085B054.A01

DETAILS ELECTRICAL

Dwg.No.: **E301**

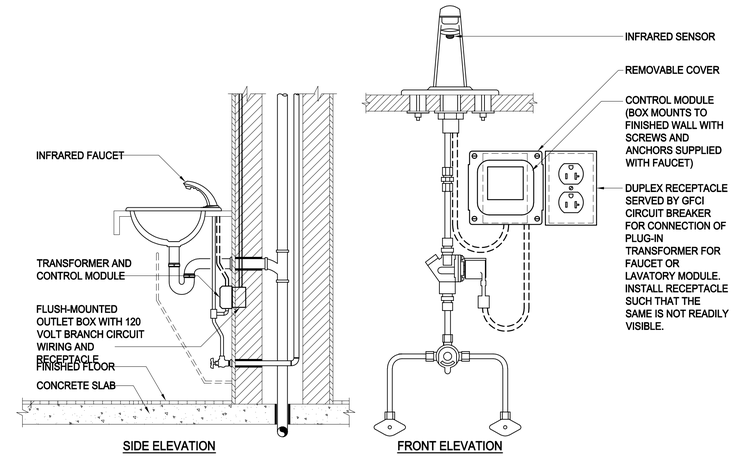


NOTES:

1. MOUNTING HEIGHTS ARE NOMINAL. DEVICES IN BLOCK WALLS MAY BE MOUNTED SUCH THAT OUTLET BOX ALIGNS WITH TOP OR BOTTOM OF BLOCK COURSING, SO LONG AS DEVICE IS WITHIN MINIMUM/MAXIMUM MOUNTING HEIGHTS INDICATED.

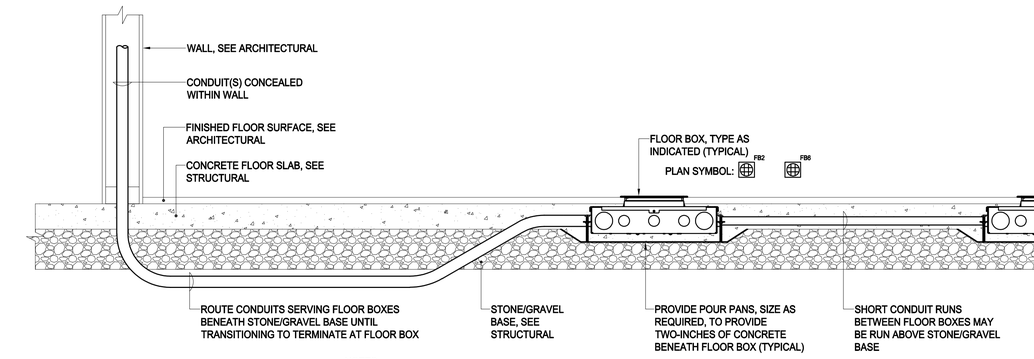
1 DETAIL - ELECTRICAL WIRING DEVICE MOUNTING HEIGHTS

NO SCALE



2 DETAIL - PLUMBING EQUIPMENT ROUGH-IN/CONNECTION - ELECTRONIC FAUCET

NO SCALE

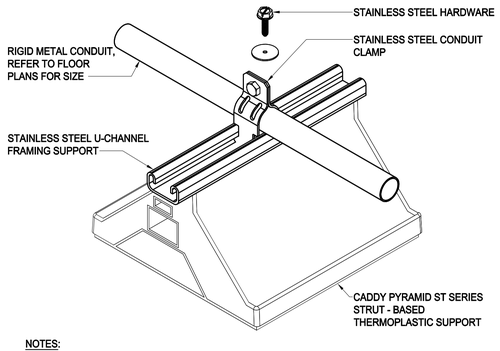


NOTES:

1. ALL POWER WIRING, RACEWAY, BOXES, RECEPTACLES & FACEPLATE COVERS ARE PROVIDED UNDER DIVISION 26.
2. ALL LOW VOLTAGE DATA, VOICE, AUDIO & VIDEO CABLES, DEVICE JACKS & TERMINATIONS ARE PROVIDED UNDER DIVISION 27.
3. CONDUITS SERVING FLOOR BOXES IN SLAB-ON-GRADE APPLICATIONS MUST BE ROUTED BENEATH STONE/GRAVEL BASE UNTIL TRANSITIONING TO CONDUIT FITTING AT FLOOR BOX.

3 DETAIL - FLOOR BOX CONDUIT INSTALLATION - TYPICAL SLAB ON-GRADE INSTALLATIONS

NO SCALE

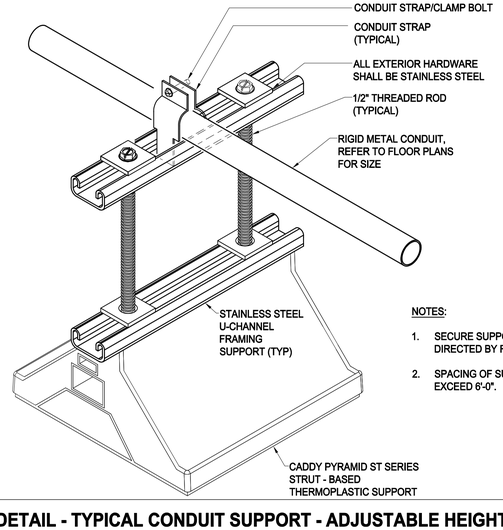


NOTES:

1. SECURE SUPPORT FRAME TO ROOF AS DIRECTED BY ROOFING CONTRACTOR.
2. SPACING OF SUPPORTS SHALL NOT EXCEED 6'-0".

4 DETAIL - TYPICAL CONDUIT SUPPORT - FIXED HEIGHT

NO SCALE

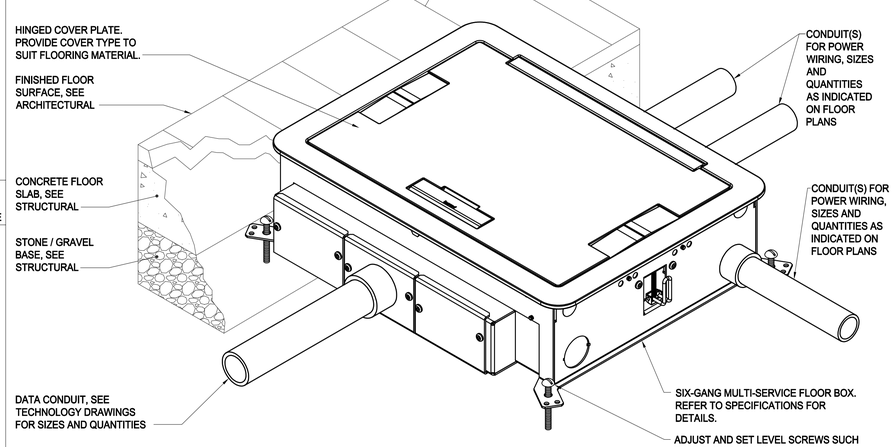


NOTES:

1. SECURE SUPPORT FRAME TO ROOF AS DIRECTED BY ROOFING CONTRACTOR.
2. SPACING OF SUPPORTS SHALL NOT EXCEED 6'-0".

5 DETAIL - TYPICAL CONDUIT SUPPORT - ADJUSTABLE HEIGHT

NO SCALE



PLAN SYMBOL: FB6

NOTES:

1. ALL POWER WIRING, RACEWAY, BOXES, RECEPTACLES & FACEPLATE COVERS ARE PROVIDED UNDER DIVISION 26.
2. ALL LOW VOLTAGE DATA, VOICE, AUDIO & CATV CABLES, DEVICE JACKS & TERMINATIONS ARE PROVIDED UNDER DIVISION 27.
3. FURNISH AND INSTALL THREE (3) NEMA 5-20R TAMPER-RESISTANT DUPLEX RECEPTACLE OUTLETS AND THREE (3) LOW VOLTAGE ACTIVATION KITS FOR AUDIO/VIDEO CONNECTIONS PROVIDED UNDER DIVISION 27.
4. COORDINATE EXACT FLOOR BOX LOCATION WITH ARCHITECT.
5. PROVIDE FLANGE STYLE BLANK COVER FOR BOXES INSTALLED IN TILE/CARPET FLOORS. PROVIDE FLANGELESS STYLE COVER FOR BOXES INSTALLED IN POLISHED CONCRETE FLOORS.
6. BASIS OF DESIGN: WIREMOLD EVOLUTION SERIES EFB6S-OG.

6 DETAIL - SIX GANG MULTI-SERVICE FLOOR BOX

NO SCALE

STATE OF MARYLAND
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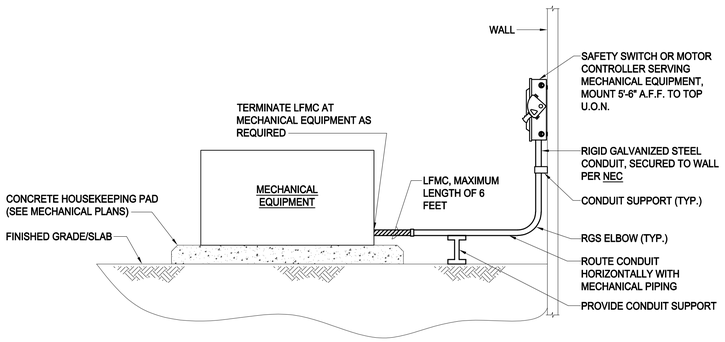
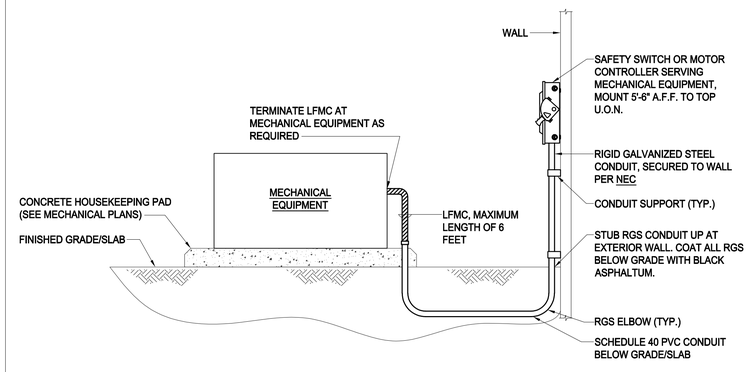
DETAILS ELECTRICAL

Dwg.No.: **E302**



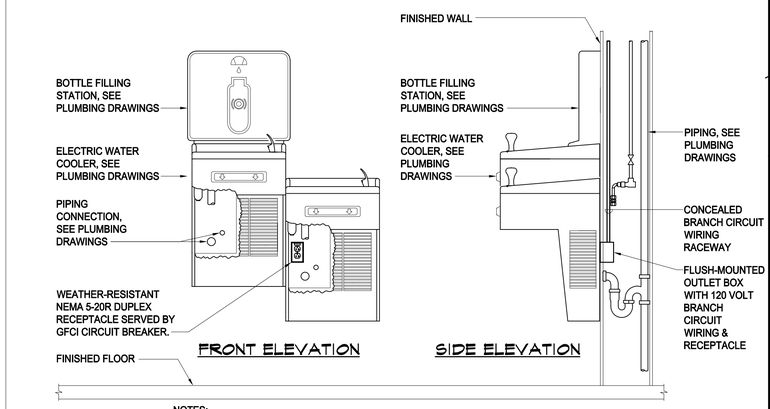
1 DETAIL - PAD-MOUNTED MECHANICAL EQUIPMENT CONNECTION - CONDUIT ABOVE SLAB

NO SCALE



2 DETAIL - PAD-MOUNTED MECHANICAL EQUIPMENT CONNECTION - CONDUIT BELOW SLAB

NO SCALE

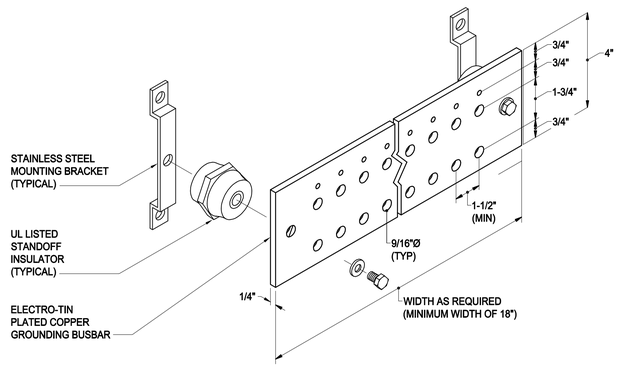


NOTES:

1. MOUNTING HEIGHT TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.
2. MANUFACTURER TO PROVIDE POWER CORD WITH PLUG.

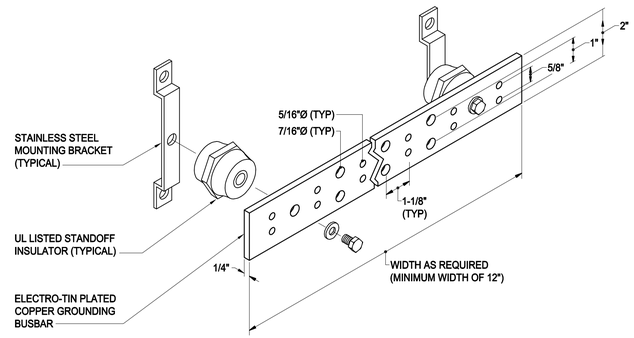
3 DETAIL - PLUMBING EQUIPMENT ROUGH-IN/CONNECTION - ELECTRIC WATER COOLER

NO SCALE



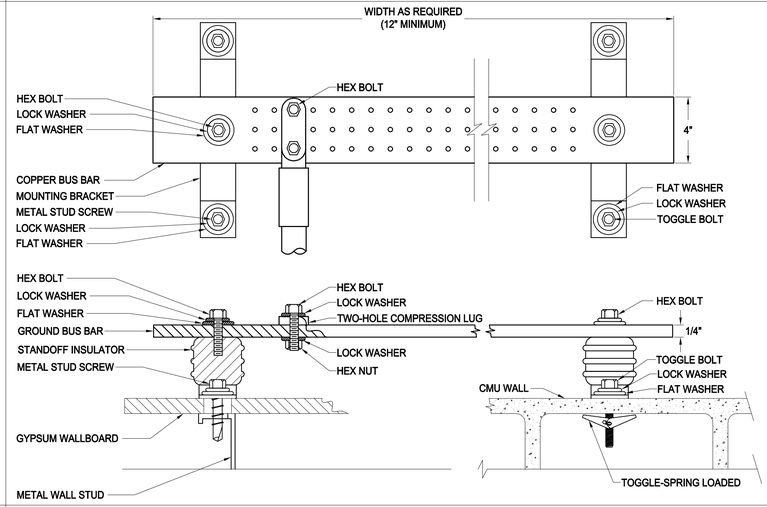
4 DETAIL - ELECTRICAL GROUNDING BUSBAR (EGB)

NO SCALE



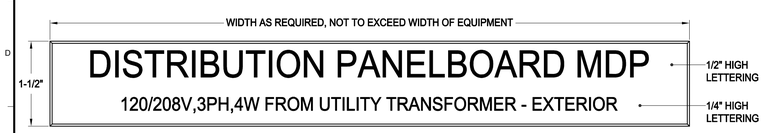
5 DETAIL - TELECOMMUNICATIONS BONDING BUSBAR (PBB)

NO SCALE



6 DETAIL - GROUND BUS BAR INSTALLATION

NO SCALE

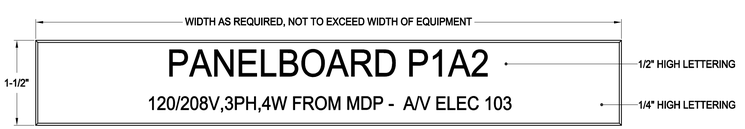


NOTES:

1. LINE #1 IDENTIFIES DISTRIBUTION PANELBOARD DESIGNATION: DISTRIBUTION PANELBOARD [DISTRIBUTION PANELBOARD DESIGNATION, E.G. DP1D1]
2. LINE #2 IDENTIFIES FEEDER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]
3. LINE #3 ONLY APPLIES TO DISTRIBUTION PANELBOARDS ON A 120/240V, 3PH, 4W HIGH-LEG DELTA SYSTEM, AND SHALL READ AS INDICATED.

7 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - DISTRIBUTION PANELBOARDS

NO SCALE

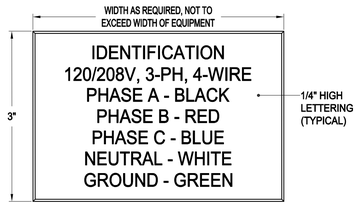


NOTES:

1. LINE #1 IDENTIFIES PANELBOARD DESIGNATION: PANELBOARD [PANELBOARD DESIGNATION, E.G. C1D1]
2. LINE #2 IDENTIFIES FEEDER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]
3. LINE #3 ONLY APPLIES TO PANELBOARDS ON A 120/240V, 3PH, 4W HIGH-LEG DELTA SYSTEM, AND SHALL READ AS INDICATED.

8 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - BRANCH PANELBOARDS

NO SCALE



NOTES:

1. APPLY WIRING SYSTEM IDENTIFICATION LABEL AT EACH BRANCH CIRCUIT PANELBOARD IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) ARTICLE 210.5(C).

9 DETAIL - WIRING SYSTEM IDENTIFICATION LABEL FOR PANELBOARDS

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

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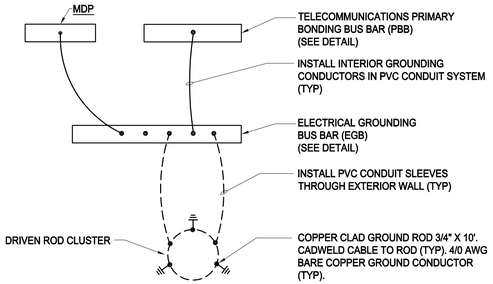
Proj.No.: 0085B054.A01

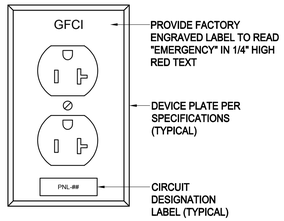
DETAILS ELECTRICAL

Dwg.No.: E303



1 DETAIL - RISER DIAGRAM - GROUNDING GRID

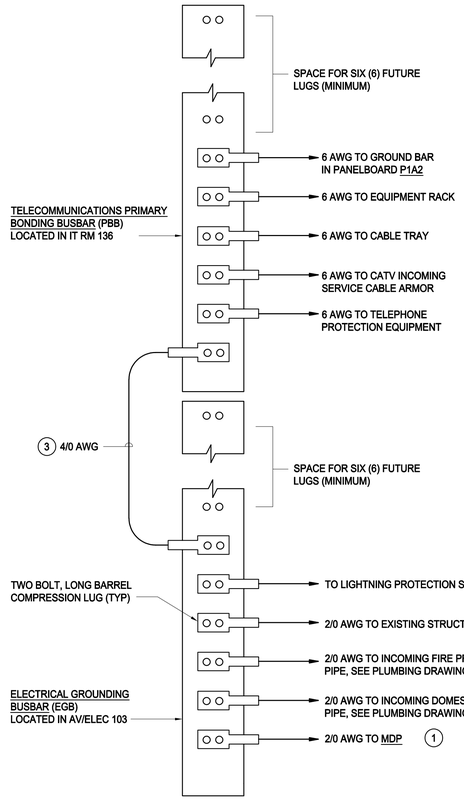
NO SCALE



DUPLEX RECEPTACLE ON GFCI PROTECTED CIRCUIT

2 DETAIL - CUSTOM ENGRAVED RECEPTACLE FACEPLATES

NO SCALE



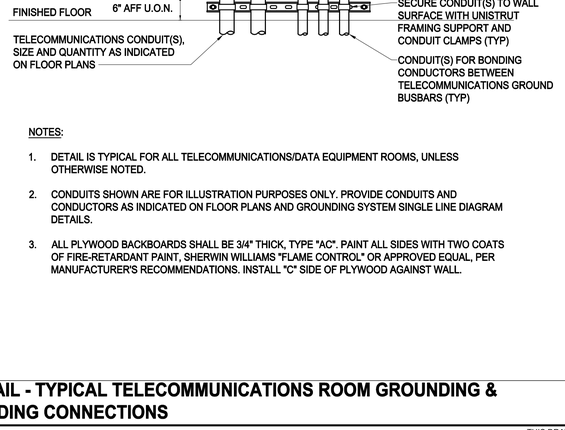
NOTES:

1. BOND NEUTRAL TO GROUND AT MDP ONLY.
2. INSTALL 2/0 AWG BONDING JUMPER AROUND DOMESTIC WATER METER.
3. INSTALL INTERIOR GROUNDING CONDUCTORS IN PVC CONDUIT SYSTEM (TYPICAL).
4. IF ALTERNATE IS ACCEPTED, COORDINATE LIGHTNING PROTECTION SYSTEM GROUNDING CONDUCTOR INSTALLATION WITH LIGHTNING PROTECTION SYSTEM CONTRACTOR. TERMINATIONS SHALL BE UL96 LISTED FOR LIGHTNING PROTECTION INSTALLATIONS.

5 GROUNDING SYSTEM - SINGLE LINE DIAGRAM - GROUNDING BUSBAR CONNECTIONS

NO SCALE

3 NOT USED



NOTES:

1. DETAIL IS TYPICAL FOR ALL TELECOMMUNICATIONS/DATA EQUIPMENT ROOMS, UNLESS OTHERWISE NOTED.
2. CONDUITS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. PROVIDE CONDUITS AND CONDUCTORS AS INDICATED ON FLOOR PLANS AND GROUNDING SYSTEM SINGLE LINE DIAGRAM DETAILS.
3. ALL PLYWOOD BACKBOARDS SHALL BE 3/4" THICK, TYPE "AC". PAINT ALL SIDES WITH TWO COATS OF FIRE-RETARDANT PAINT, SHERWIN WILLIAMS "FLAME CONTROL" OR APPROVED EQUAL, PER MANUFACTURER'S RECOMMENDATIONS. INSTALL "C" SIDE OF PLYWOOD AGAINST WALL.

4 DETAIL - TYPICAL TELECOMMUNICATIONS ROOM GROUNDING & BONDING CONNECTIONS

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
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PROFESSIONAL ENGINEER
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DETAILS ELECTRICAL

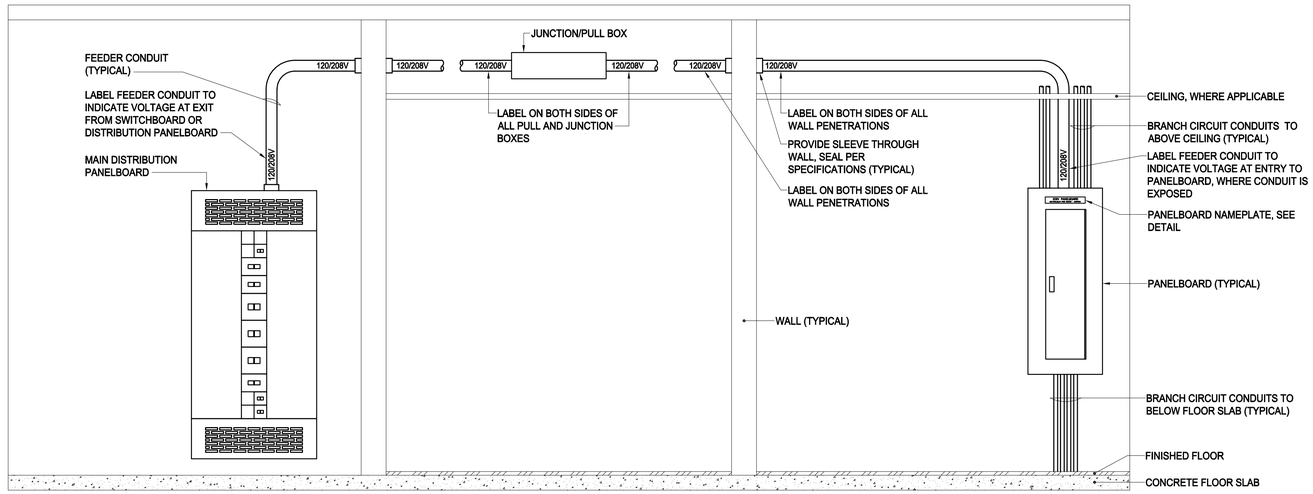
Dwg.No.: E304

NOTES:

1. LINE #1 IDENTIFIES LIGHTING CONTROL PANEL DESIGNATION: LIGHTING CONTROL PANEL [LIGHTING CONTROL PANEL DESIGNATION, E.G. LCP]
2. LINE #2 IDENTIFIES FEEDER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]

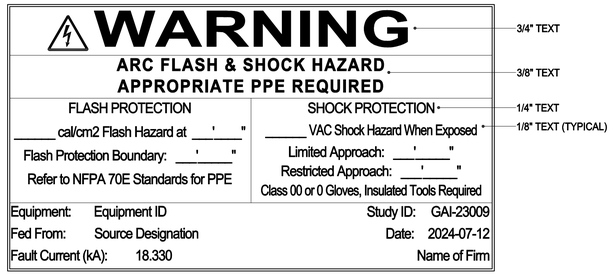
1 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - LIGHTING CONTROL PANEL

NO SCALE



2 DETAIL - TYPICAL FEEDER CONDUIT LABELING

NO SCALE



NOTES:

1. APPLY ARCH FLASH HAZARD LABELS AT EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT REQUIRED BY NFPA 70 AND NFPA 70E.
2. ARC FLASH HAZARD LABELS SHALL BE SPECIFIC TO EACH PIECE OF EQUIPMENT. GENERIC LABELS SUPPLIED WITH EQUIPMENT ARE NOT ACCEPTABLE.

3 DETAIL - TYPICAL ARC FLASH HAZARD LABEL

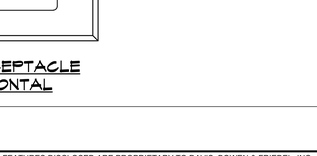
NO SCALE

NOTES:

1. LINE #1 IDENTIFIES LOAD DESIGNATION: [LOAD DESIGNATION, E.G. HPO-3]
2. LINE #2 IDENTIFIES BRANCH CIRCUIT: [SOURCE EQUIPMENT/CIRCUIT DESIGNATION, E.G. [MP-48/50]
3. LINE #3 IDENTIFIES BRANCH CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES (NOT REQUIRED FOR SINGLE PHASE CIRCUITS)]
4. WHERE MOTOR SWITCH IS DOWNSTREAM OF THE MOTOR CONTROLLER, ADD A FOURTH LINE OF TEXT TO IDENTIFY MOTOR CONTROLLER LOCATION: [MOTOR CONTROLLER] [VFD] SERVING THIS MOTOR IS LOCATED IN [ROOM NAME] [ROOM NUMBER].
5. PROVIDE NAMEPLATES FOR ALL DISCONNECTING MEANS FOR EQUIPMENT, INCLUDING FACTORY DISCONNECTS PROVIDED INTEGRAL WITH EQUIPMENT.

4 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - DISCONNECT SWITCH AND/OR COMBINATION MOTOR CONTROLLER

NO SCALE

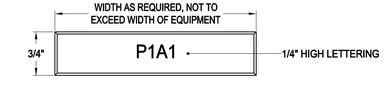


NOTES:

1. LINE #1 IDENTIFIES LOAD DESIGNATION: [LOAD DESIGNATION, E.G. EUH-1]
2. LINE #2 IDENTIFIES BRANCH CIRCUIT: [SOURCE EQUIPMENT/CIRCUIT DESIGNATION, E.G. P1A2-4/6]
3. LINE #3 IDENTIFIES BRANCH CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES (NOT REQUIRED FOR SINGLE PHASE CIRCUITS)]
4. WHERE MOTOR SWITCH IS DOWNSTREAM OF THE MOTOR CONTROLLER, ADD A FOURTH LINE OF TEXT TO IDENTIFY MOTOR CONTROLLER LOCATION: [MOTOR CONTROLLER] [VFD] SERVING THIS MOTOR IS LOCATED IN [ROOM NAME] [ROOM NUMBER].
5. PROVIDE NAMEPLATES FOR ALL DISCONNECTING MEANS FOR EQUIPMENT, INCLUDING FACTORY DISCONNECTS PROVIDED INTEGRAL WITH EQUIPMENT.

5 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - MANUAL MOTOR STARTER/CONTROL SWITCH

NO SCALE

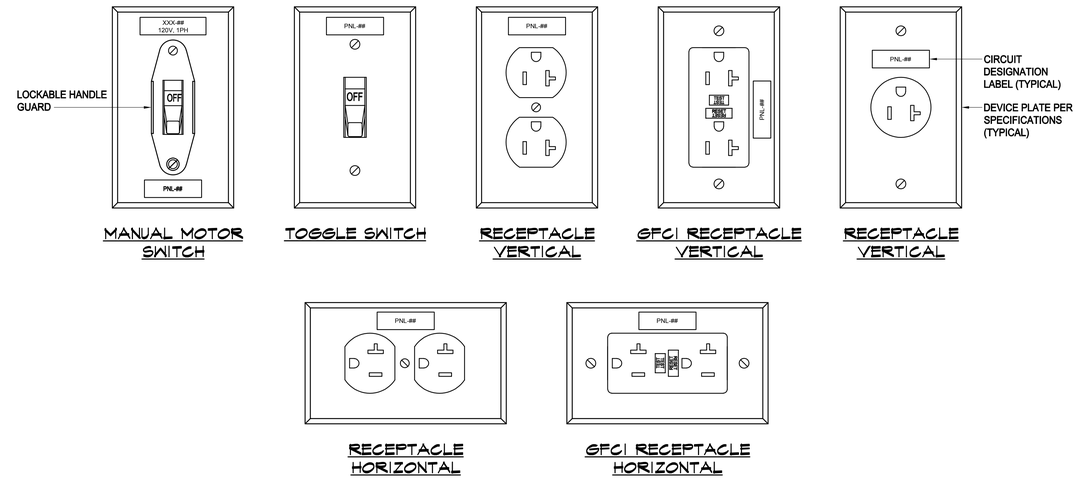


NOTES:

1. LINE #1 IDENTIFIES LOAD SERVED BY CIRCUIT BREAKER.
2. APPLY TO ALL CIRCUIT BREAKERS IN THE MAIN DISTRIBUTION PANELBOARD.

6 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - CIRCUIT BREAKER IN MAIN DISTRIBUTION PANELBOARD

NO SCALE



7 DETAIL - TYPICAL FACEPLATE LABELING - TOGGLE SWITCHES AND RECEPTACLES

NO SCALE

STATE OF MARYLAND
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DETAILS ELECTRICAL

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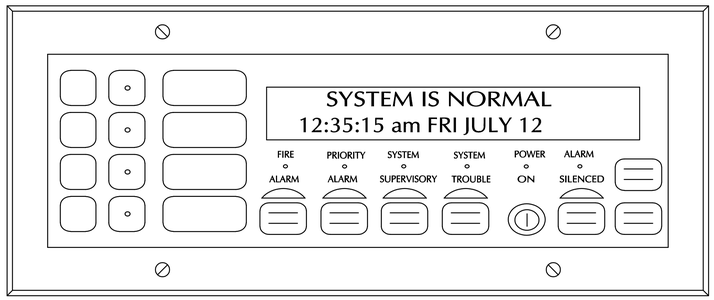


1 DETAIL - FIRE ALARM REMOTE ANNUNCIATOR

NO SCALE

NOTES:

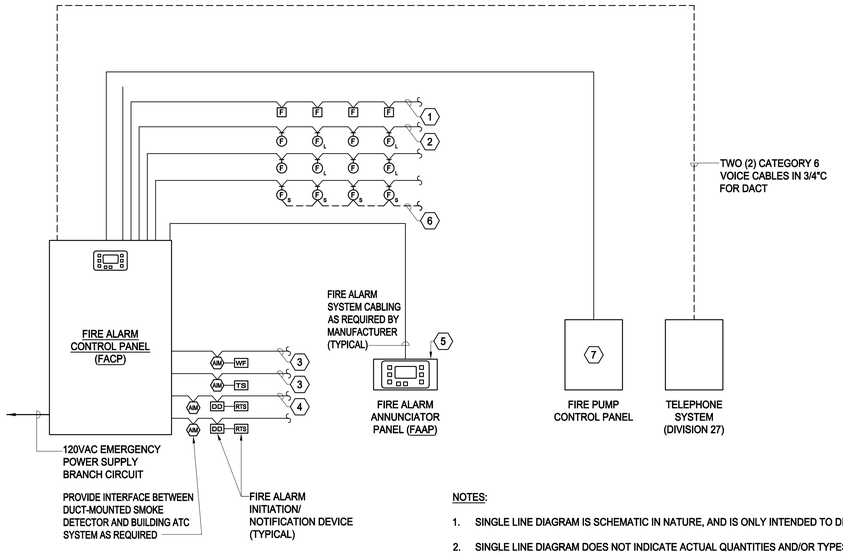
1. LINE #1 IDENTIFIES LIGHTING CONTROL PANEL DESIGNATION: FIRE ALARM CONTROL PANEL [PANEL DESIGNATION, E.G. "FIRE ALARM CONTROL PANEL", "NAC PANEL", ETC.]
2. LINE #2 IDENTIFIES CONTROL POWER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE PANELBOARD - [ROOM WHERE SOURCE PANELBOARD IS LOCATED]

2 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - FIRE ALARM CONTROL PANEL

NO SCALE

4

NO SCALE

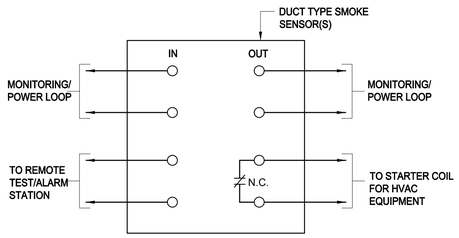


NOTES:

1. SINGLE LINE DIAGRAM IS SCHEMATIC IN NATURE, AND IS ONLY INTENDED TO DISPLAY OVERALL INTENT FOR THE FIRE ALARM SYSTEM.
2. SINGLE LINE DIAGRAM DOES NOT INDICATE ACTUAL QUANTITIES AND/OR TYPES OF DEVICES. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
3. PROVIDE ALL WIRING TYPES, SIZES AND INTERCONNECTIONS AS REQUIRED BY THE MANUFACTURER.
4. NOT ALL DEVICES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR CODE COMPLIANCE AND SYSTEM OPERATION.

3 FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM

NO SCALE

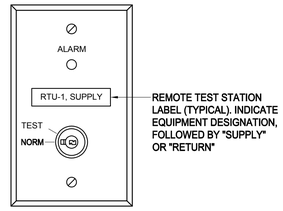


NOTES:

1. TYPICAL FOR ALL DUCT TYPE SMOKE SENSORS.
2. WIRING BETWEEN HVAC EQUIPMENT MOTOR STARTERS AND SMOKE SENSORS SHALL BE (2) 14 AWG IN 3/4" CONDUIT.

5 DUCT TYPE SMOKE SENSOR - WIRING DIAGRAM

NO SCALE



TYPICAL DUCT DETECTOR
REMOTE TEST STATION

NOTES:

1. PROVIDE REMOTE TEST STATION FOR EACH DUCT-MOUNTED SMOKE SENSOR. VERIFY LOCATIONS OF TEST STATIONS WITH FIRE MARSHAL.
2. COORDINATE SIZE AND LOCATION OF LABEL(S) WITH REMOTE TEST STATION LAYOUT.

6 DETAIL - TYPICAL DUCT DETECTOR REMOTE TEST STATION LABELING

NO SCALE

DRAWING NOTES:

(APPLY TO THIS DETAIL ONLY)

1. TO OTHER ALARM INITIATING DEVICES (TYPICAL PER ZONE).
2. TO OTHER ALARM NOTIFICATION APPLIANCES (TYPICAL PER ZONE).
3. TO OTHER SPRINKLER SYSTEM DEVICES (TYPICAL PER ZONE).
4. TO OTHER DUCT SMOKE DETECTORS (TYPICAL PER ZONE).
5. STATIC ANNUNCIATOR WITH ALPHANUMERIC DISPLAY. SEE ANNUNCIATOR DETAIL FOR ADDITIONAL INFORMATION.
6. SPEAKER CABLING TO SPEAKER NOTIFICATION APPLICANCES (TYPICAL PER ZONE).
7. PROVIDE ALL CODE REQUIRED ALARMS AND STATUS MONITORING FOR FIRE PUMP.

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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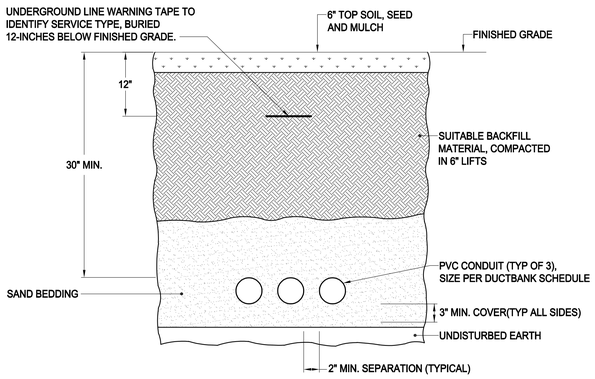
DETAILS ELECTRICAL

Dwg.No.: E306

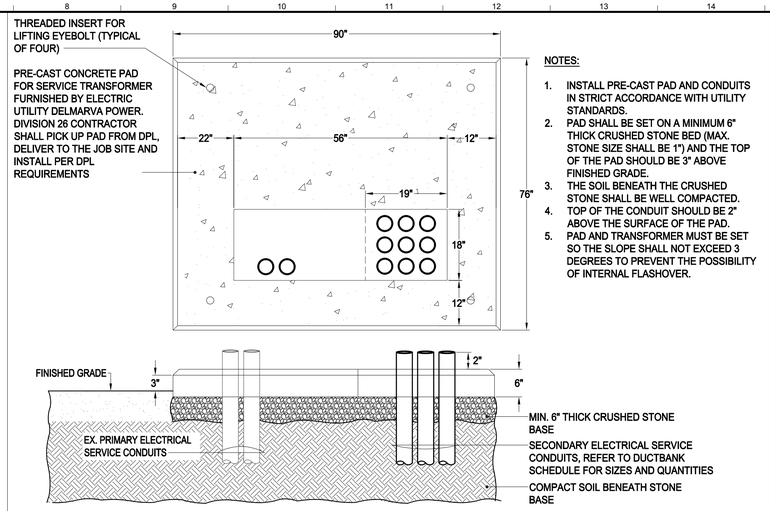


NOTES:

1. EXACT DEPTH TO BE COORDINATED WITH OTHER BURIED UTILITIES SUCH AS STORM DRAIN LINE AND ROOF LEADERS.

1 DETAIL - THREE-WAY DIRECT BURIED ELECTRICAL CONDUIT - GENERIC

NO SCALE

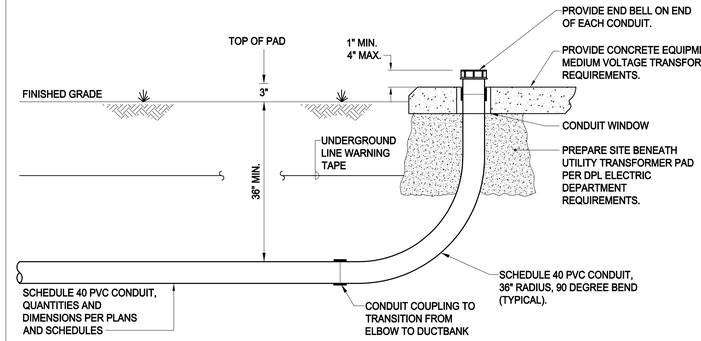


NOTES:

1. INSTALL PRE-CAST PAD AND CONDUITS IN STRICT ACCORDANCE WITH UTILITY STANDARDS.
2. PAD SHALL BE SET ON A MINIMUM 6" THICK CRUSHED STONE BED (MAX. STONE SIZE SHALL BE 1") AND THE TOP OF THE PAD SHOULD BE 3" ABOVE FINISHED GRADE.
3. THE SOIL BENEATH THE CRUSHED STONE SHALL BE WELL COMPACTED.
4. TOP OF THE CONDUIT SHOULD BE 2" ABOVE THE SURFACE OF THE PAD.
5. PAD AND TRANSFORMER MUST BE SET SO THE SLOPE SHALL NOT EXCEED 3 DEGREES TO PREVENT THE POSSIBILITY OF INTERNAL FLASHOVER.

2 DETAIL - UTILITY TRANSFORMER PAD

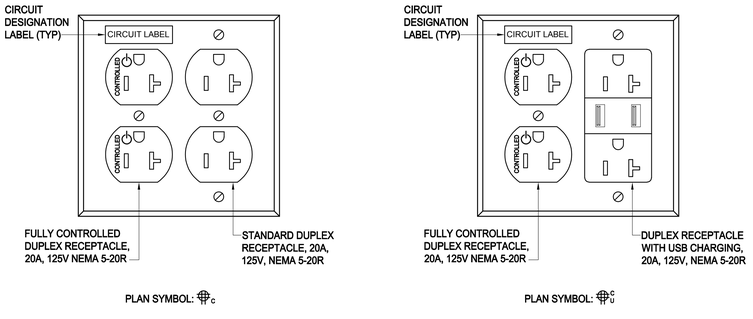
NO SCALE



3 DETAIL - CONDUIT TURNING INTO PRECAST UTILITY TRANSFORMER PAD

NO SCALE

4 NOT USED

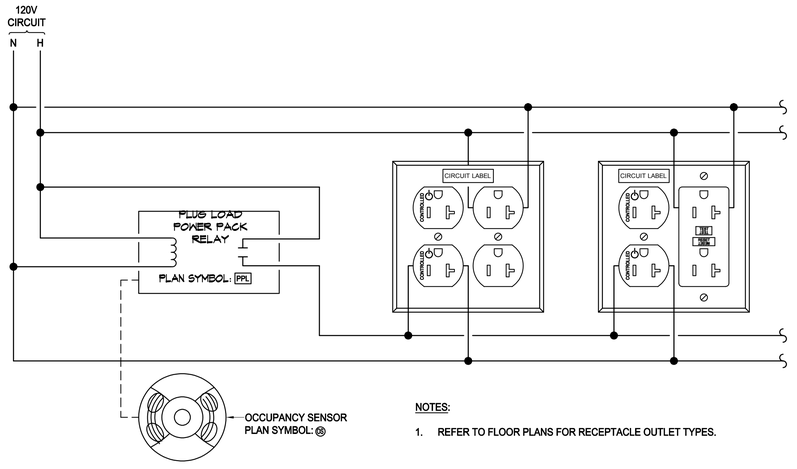


NOTES:

1. REFER TO FLOOR PLANS FOR RECEPTACLE OUTLET TYPES.

6 DETAIL - DOUBLE DUPLEX RECEPTACLE - FULLY CONTROLLED WITH USB

NO SCALE

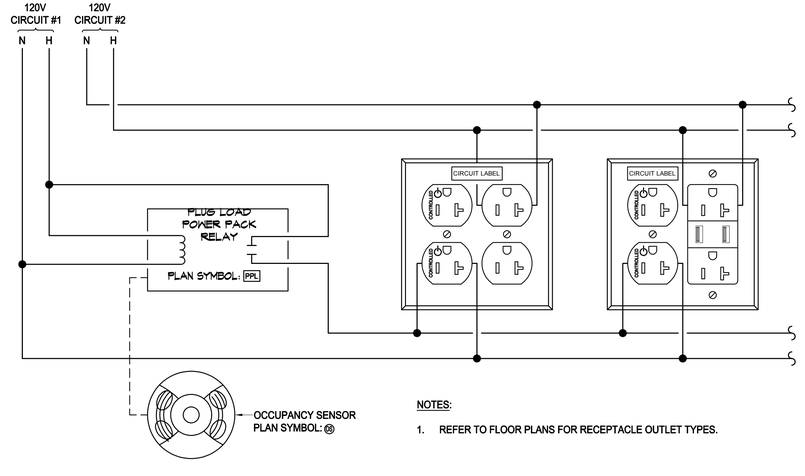


NOTES:

1. REFER TO FLOOR PLANS FOR RECEPTACLE OUTLET TYPES.

5 DETAIL - WIRING DIAGRAM - DOUBLE DUPLEX CONTROLLED OUTLETS - ONE CIRCUIT

NO SCALE



NOTES:

1. REFER TO FLOOR PLANS FOR RECEPTACLE OUTLET TYPES.

7 DETAIL - WIRING DIAGRAM - DOUBLE DUPLEX CONTROLLED OUTLETS - TWO CIRCUITS

NO SCALE

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DAVID R. HOFFMAN
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PROFESSIONAL ENGINEER

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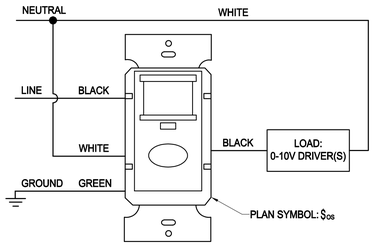
DETAILS ELECTRICAL

Dwg.No.: E307



NOTES:

1. REFER TO OCCUPANCY SENSOR MANUFACTURER'S WIRING DIAGRAM(S) FOR EXACT INSTALLATION REQUIREMENTS.
2. DETAIL BASED ON BASIS-OF-DESIGN MANUFACTURER.

SEQUENCE OF OPERATION

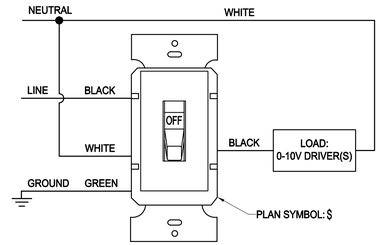
TYPICAL INDIVIDUAL TOILET ROOM

A. EACH INDIVIDUAL TOILET ROOM AND BOOK DROP ROOM SHALL HAVE ONE WALL SWITCH OCCUPANCY/VACANCY SENSOR FOR AUTOMATIC SHUT-OFF OF LIGHTING FIXTURES.
   1. OCCUPANCY SENSORS SHALL BE PROGRAMMED TO MANUAL ON, AUTOMATIC OFF WITH A 20 MINUTE TIME DELAY.
   2. AFTER OCCUPANCY SENSOR TIMEOUT, CONTROLS SHALL REVERT BACK TO PREVIOUS SETTINGS AND BE PROGRAMMED TO MANUAL ON.

B. EACH INDIVIDUAL TOILET ROOM SHALL HAVE AN EMERGENCY "BUG-EYE" LIGHTING FIXTURE TO SERVE AS AN EMERGENCY LIGHT IN THE SPACE AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURE(S) SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.

1 LIGHTING CONTROL SYSTEM - TYPICAL INDIVIDUAL TOILET ROOM, BOOK DROP

NO SCALE



NOTES:

1. DETAIL BASED ON BASIS-OF-DESIGN MANUFACTURER.

SEQUENCE OF OPERATION

MECH/ELEC/IT ROOMS

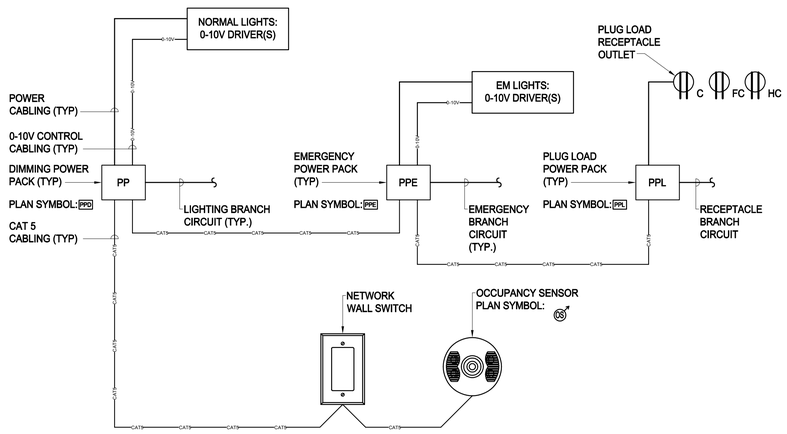
A. MECH/ELEC/IT ROOMS SHALL BE CONTROLLED INDEPENDENTLY AND SEPARATELY FROM THE NETWORK WALL SWITCH SYSTEM. SEQUENCE OF OPERATIONS IS SHOWN FOR CLARITY.

B. MECH/ELEC/IT ROOMS SHALL NOT UTILIZE OCCUPANCY SENSORS.

C. MECH/ELEC/IT ROOMS SHALL HAVE EMERGENCY "BUG-EYE" LIGHTING FIXTURES TO SERVE AS AN EMERGENCY LIGHT IN THE SPACE AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURE(S) SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.

2 LIGHTING CONTROL SYSTEM - TYPICAL MECH/ELEC/IT ROOM

NO SCALE



NOTES:

1. REFER TO WALL SWITCH DETAIL FOR LOAD(S) CONTROLLED AND FACTORY ENGRAVING INFORMATION.
2. SEE FLOOR PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

WIRING DIAGRAM

SEQUENCE OF OPERATION

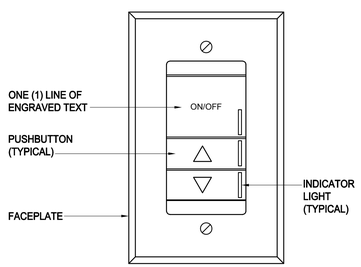
TYPICAL INDIVIDUAL OFFICE, CONFERENCE ROOM WITH CEILING MOUNT OCCUPANCY SENSOR

A. EACH OFFICE, CONFERENCE ROOM SHALL HAVE ONE OR MORE OCCUPANCY/VACANCY SENSOR(S) FOR AUTOMATIC SHUT-OFF OF LIGHTING FIXTURES.
   1. OCCUPANCY SENSORS SHALL BE PROGRAMMED TO MANUAL ON, AUTOMATIC OFF WITH A 20 MINUTE TIME DELAY.
   2. AFTER OCCUPANCY SENSOR TIMEOUT, CONTROLS SHALL REVERT BACK TO PREVIOUS SETTINGS AND BE PROGRAMMED TO MANUAL ON.

B. THE ENTRY WALL SHALL HAVE ONE (1) THREE BUTTON SWITCH WITH RAISE/LOWER CONTROL:
   1. SWITCH SLV1D:
      a. BUTTON #1 - ON - TURN ALL LIGHTS IN SPACE ON TO 100% OUTPUT. TURN ALL LIGHTS IN SPACE OFF.
      b. BUTTON #2 - RAISE - INCREASE OUTPUT OF ALL LIGHTING FIXTURES IN SPACE.
      c. BUTTON #3 - LOWER - DECREASE OUTPUT OF ALL LIGHTING FIXTURES IN SPACE.

C. SELECT OFFICES, CONFERENCE ROOMS, AND SIMILAR SPACES SHALL HAVE LIGHTING FIXTURE(S) TO SERVE AS EMERGENCY LIGHT(S) AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURES SHALL BE WIRED THROUGH A UL924 LISTED EMERGENCY POWER PACK AND SHALL NOT BE ABLE TO BE SWITCHED OFF DURING LOSS OF NORMAL POWER, EITHER THROUGH WALL SWITCH OR OCCUPANCY/VACANCY SENSOR. UPON POWER LOSS, EMERGENCY LIGHTING FIXTURE(S) SHALL ENERGIZE TO FULL OUTPUT. REFER TO FLOOR PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

D. EACH OFFICE, CONFERENCE ROOM SHALL HAVE CONTROLLED RECEPTACLES AS NOTED ON THE FLOOR PLANS. CONTROLLED RECEPTACLES SHALL BE WIRED THROUGH A 20A POWER PACK FOR PLUG LOAD CONTROL AND SHALL BE CONTROLLED VIA THE OCCUPANCY SENSORS IN THE SPACE.



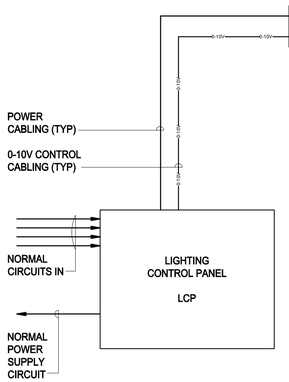
NOTE:

1. REFER TO "NETWORK WALL SWITCH SCHEDULE" FOR MORE INFORMATION, I.E. BASIS OF DESIGN ETC.

WALL SWITCH DETAIL

3 LIGHTING CONTROL SYSTEM - TYPICAL INDIVIDUAL OFFICE, CONFERENCE ROOM WITH CEILING MOUNT OCCUPANCY SENSOR

NO SCALE



WIRING DIAGRAM

SEQUENCE OF OPERATION

TYPICAL CORRIDOR

A. COR 3 102 AND COR 4 123 LIGHTING FIXTURES SHALL BE HELD ON DURING NORMAL OPERATIONS HOURS BETWEEN 6:00AM AND 8:30PM. NORMAL OPERATING HOURS TO BE CONFIRMED WITH OWNER.
   1. DURING NORMAL OPERATING HOURS:
      a. LIGHTING FIXTURES SHALL BE HELD ON DURING NORMAL OPERATING HOURS.
   2. AFTER NORMAL OPERATING HOURS:
      a. LIGHTING FIXTURES SHALL BE HELD OFF AFTER NORMAL OPERATING HOURS.

C. CORRIDOR LIGHTING FIXTURES SHALL TURN ON IN THE EVENT OF A SECURITY BREACH BY MEANS OF AN INTERFACE WITH THE INTRUSION DETECTION SYSTEM PROVIDED UNDER DIVISION 28, AND SHALL REMAIN ON UNTIL THE INTRUSION DETECTION SYSTEM IS RESET TO NORMAL CONDITIONS. AT THAT TIME, LIGHTING FIXTURES SHALL REVERT TO NORMALLY PROGRAMMED SETTINGS.

D. CORRIDOR SHALL HAVE EMERGENCY "BUG-EYE" LIGHTING FIXTURES TO SERVE AS AN EMERGENCY LIGHT IN THE SPACE AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURE(S) SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.

4 LIGHTING CONTROL SYSTEM - TYPICAL CORRIDOR

NO SCALE

STATE OF MARYLAND
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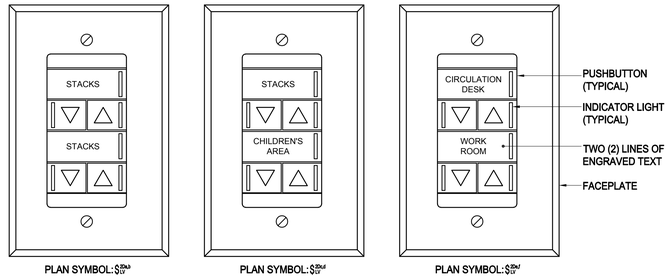
LIGHTING CONTROL SEQUENCES

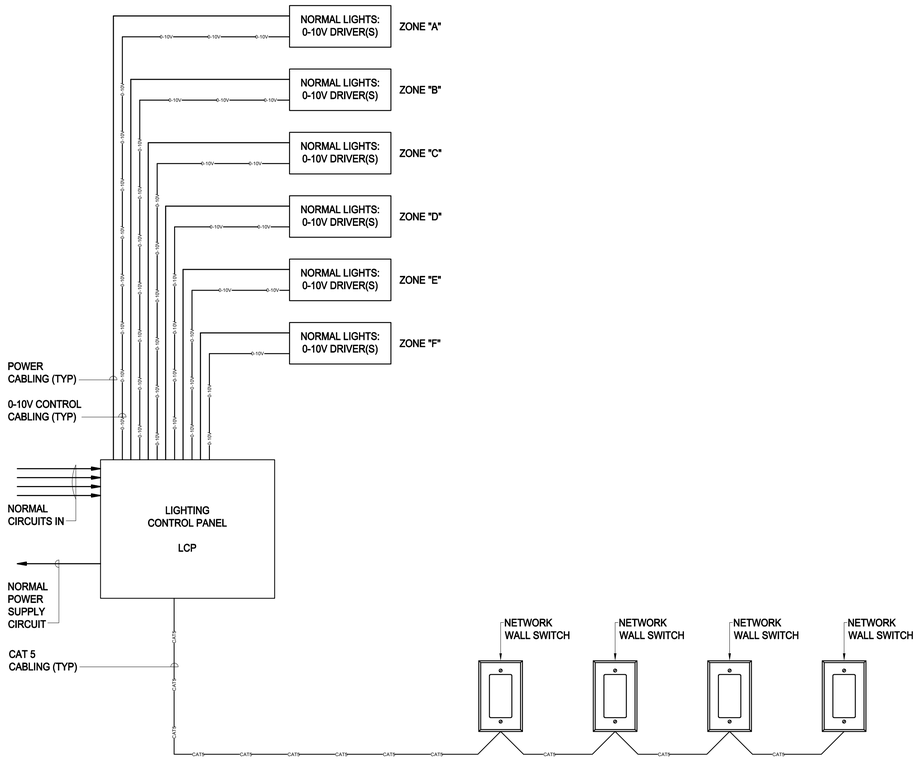
Dwg.No.: **E401**



NOTE:

1. REFER TO "NETWORK WALL SWITCH SCHEDULE" FOR MORE INFORMATION, I.E. BASIS OF DESIGN ETC.

WALL SWITCH DETAIL



NOTES:

1. REFER TO WALL SWITCH DETAIL FOR LOAD(S) CONTROLLED AND FACTORY ENGRAVING INFORMATION.
2. SEE FLOOR PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

WIRING DIAGRAM

SEQUENCE OF OPERATION

CIRCULATION DESK / GENERAL SEATING / CHILDREN'S AREA / STACKS

A. CIRCULATION DESK / GENERAL SEATING / CHILDREN'S AREA / STACKS LIGHTING FIXTURES SHALL BE HELD ON DURING NORMAL OPERATIONS HOURS BETWEEN 6:00AM AND 8:30PM. NORMAL OPERATING HOURS TO BE CONFIRMED WITH OWNER.
   1. DURING NORMAL OPERATING HOURS:
      a. LIGHTING FIXTURES SHALL BE HELD ON DURING NORMAL OPERATING HOURS.
   2. AFTER NORMAL OPERATING HOURS:
      a. LIGHTING FIXTURES SHALL BE HELD OFF AFTER NORMAL OPERATING HOURS.

B. NETWORK WALL SWITCH(ES) BEHIND CIRCULATION DESK WILL ALLOW FOR MANUAL OVERRIDE AS INDICATED BELOW:
   1. SWITCH SLV2Da,b:
      a. BUTTON #1 - STACKS (ZONE "A") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "A" ON. TURN ALL LIGHTING FIXTURES IN ZONE "A" OFF.
      b. BUTTON #2 - STACKS (ZONE "A") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "A".
      c. BUTTON #3 - STACKS (ZONE "A") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "A".
      d. BUTTON #4 - STACKS (ZONE "B") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "B" ON. TURN ALL LIGHTING FIXTURES IN ZONE "B" OFF.
      e. BUTTON #5 - STACKS (ZONE "B") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "B".
      c. BUTTON #6 - STACKS (ZONE "B") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "B".
   2. SWITCH SLV2Dc,d:
      a. BUTTON #1 - STACKS (ZONE "C") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "C" ON. TURN ALL LIGHTING FIXTURES IN ZONE "C" OFF.
      b. BUTTON #2 - STACKS (ZONE "C") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "C".
      c. BUTTON #3 - STACKS (ZONE "C") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "C".
      d. BUTTON #4 - CHILDREN'S AREA (ZONE "D") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "D" ON. TURN ALL LIGHTING FIXTURES IN ZONE "D" OFF.
      e. BUTTON #5 - CHILDREN'S AREA (ZONE "D") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "D".
      f. BUTTON #6 - CHILDREN'S AREA (ZONE "D") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "D".
   3. SWITCH SLV2De,f:
      a. BUTTON #1 - CIRC DESK (ZONE "E") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "E" ON. TURN ALL LIGHTING FIXTURES IN ZONE "E" OFF.
      b. BUTTON #2 - CIRC DESK (ZONE "E") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "E".
      c. BUTTON #3 - CIRC DESK (ZONE "E") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "C".
      d. BUTTON #4 - WORK RM (ZONE "F") - ON/OFF - TURN ALL LIGHTING FIXTURES IN ZONE "F" ON. TURN ALL LIGHTING FIXTURES IN ZONE "F" OFF.
      e. BUTTON #5 - WORK RM (ZONE "F") - RAISE - INCREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "F".
      f. BUTTON #6 - WORK RM (ZONE "F") - LOWER - DECREASE OUTPUT OF LIGHTING FIXTURES IN ZONE "F".

C. CIRCULATION DESK / WORK ROOM / CHILDREN'S AREA / STACKS LIGHTING FIXTURES SHALL TURN ON IN THE EVENT OF A SECURITY BREACH BY MEANS OF AN INTERFACE WITH THE INTRUSION DETECTION SYSTEM PROVIDED UNDER DIVISION 28, AND SHALL REMAIN ON UNTIL THE INTRUSION DETECTION SYSTEM IS RESET TO NORMAL CONDITIONS. AT THAT TIME, LIGHTING FIXTURES SHALL REVERT TO NORMALLY PROGRAMMED SETTINGS.

D. CIRCULATION DESK / WORK ROOM / CHILDREN'S AREA / STACKS SHALL HAVE EMERGENCY "BUG-EYE" LIGHTING FIXTURES TO SERVE AS AN EMERGENCY LIGHT IN THE SPACE AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURE(S) SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.

1 **LIGHTING CONTROL SYSTEM - CIRCULATION DESK / WORK ROOM / CHILDREN'S AREA / STACKS**

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER
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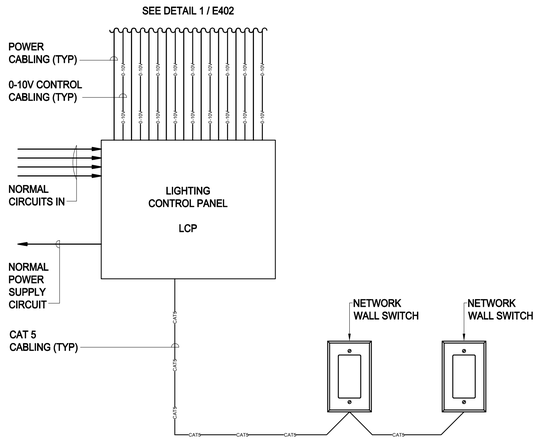
LIGHTING CONTROL SEQUENCES

Dwg.No.: **E402**



NOTES:

1. REFER TO WALL SWITCH DETAIL FOR LOAD(S) CONTROLLED AND FACTORY ENGRAVING INFORMATION.
2. SEE FLOOR PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

WIRING DIAGRAM

SEQUENCE OF OPERATION

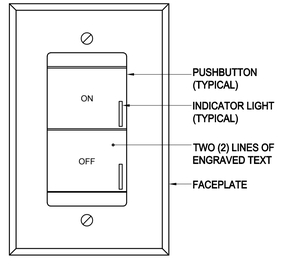
TYPICAL VESTIBULE

A. VESTIBULE LIGHTING FIXTURES SHALL BE HELD ON DURING NORMAL OPERATING HOURS. AFTER NORMAL OPERATING HOURS, LIGHTING FIXTURES SHALL BE HELD ON TO 10% OUTPUT. NORMAL OPERATING HOURS TO BE CONFIRMED WITH OWNER. NETWORK WALL SWITCH(ES) WILL ALLOW FOR MANUAL OVERRIDE WHEN REQUIRED.

C. VESTIBULE SHALL HAVE MANUAL CONTROL OF ALL LIGHTING FIXTURES SERVED FROM LCP1 VIA NETWORK WALL SWITCH FOR OVERALL LIGHTING FIXTURE OVERRIDES. NETWORK WALL SWITCHES SHALL ONLY BE OPERATIONAL AFTER NORMAL OPERATING HOURS FOR EMERGENCY USE ONLY.

D. VESTIBULE LIGHTING FIXTURES SHALL TURN ON TO 100% IN THE EVENT OF A SECURITY BREACH BY MEANS OF AN INTERFACE WITH THE INTRUSION DETECTION SYSTEM PROVIDED UNDER DIVISION 28, AND SHALL REMAIN ON UNTIL THE INTRUSION DETECTION SYSTEM IS RESET TO NORMAL CONDITIONS. AT THAT TIME, LIGHTING FIXTURES SHALL REVERT TO NORMALLY PROGRAMMED SETTINGS.

F. VESTIBULE SHALL HAVE EMERGENCY "BUG-EYE" LIGHTING FIXTURES TO SERVE AS AN EMERGENCY LIGHT IN THE SPACE AS NOTED ON THE FLOOR PLANS. EMERGENCY LIGHTING FIXTURE(S) SHALL BE SERVED BY UNSWITCHED (HOT) PHASE CONDUCTOR FROM BRANCH CIRCUIT SERVING THE SPACE.



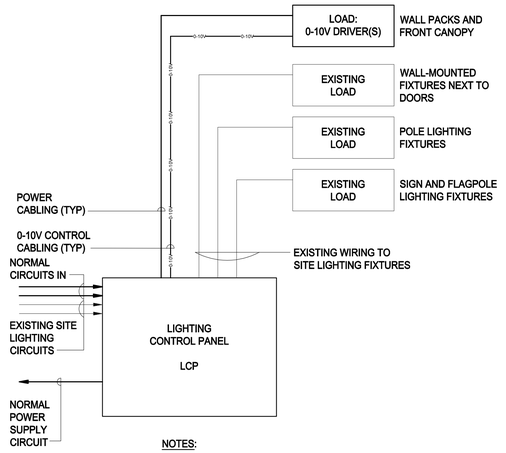
NOTE: PLAN SYMBOL: $^{1}_{0-10V}$

1. REFER TO "NETWORK WALL SWITCH SCHEDULE" FOR MORE INFORMATION, I.E. BASIS OF DESIGN ETC.

WALL SWITCH DETAILS

1 LIGHTING CONTROL SYSTEM - VESTIBULE

NO SCALE



NOTES:

1. SEE FLOOR PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

WIRING DIAGRAM

SEQUENCE OF OPERATION

EXTERIOR

A. WALL PACK AND FRONT CANOPY LIGHTING FIXTURES:
   a. BETWEEN DUSK AND 12 A.M., WALL PACK LIGHTING FIXTURES SHALL BE ON AT 100% OUTPUT.
   b. BETWEEN 12 A.M. AND 6 A.M., WALL PACK LIGHTING FIXTURES SHALL BE ON AT 30% OUTPUT.
   c. BETWEEN 6 A.M. AND DAWN, WALL PACK LIGHTING FIXTURES SHALL BE ON AT 100%.

B. WALL-MOUNTED FIXTURES NEXT TO DOORS:
   a. BETWEEN DUSK AND DAWN, WALL-MOUNTED FIXTURES NEXT TO DOORS SHALL BE ON AT 100% OUTPUT.

C. POLE LIGHTING FIXTURES:
   a. BETWEEN DUSK AND 12 A.M., POLE LIGHTING FIXTURES SHALL BE ON AT 100% OUTPUT.
   b. BETWEEN 12 A.M. AND 6 A.M., POLE LIGHTING FIXTURES SHALL BE OFF.
   c. BETWEEN 6 A.M. AND DAWN, POLE LIGHTING FIXTURES SHALL BE ON AT 100%.

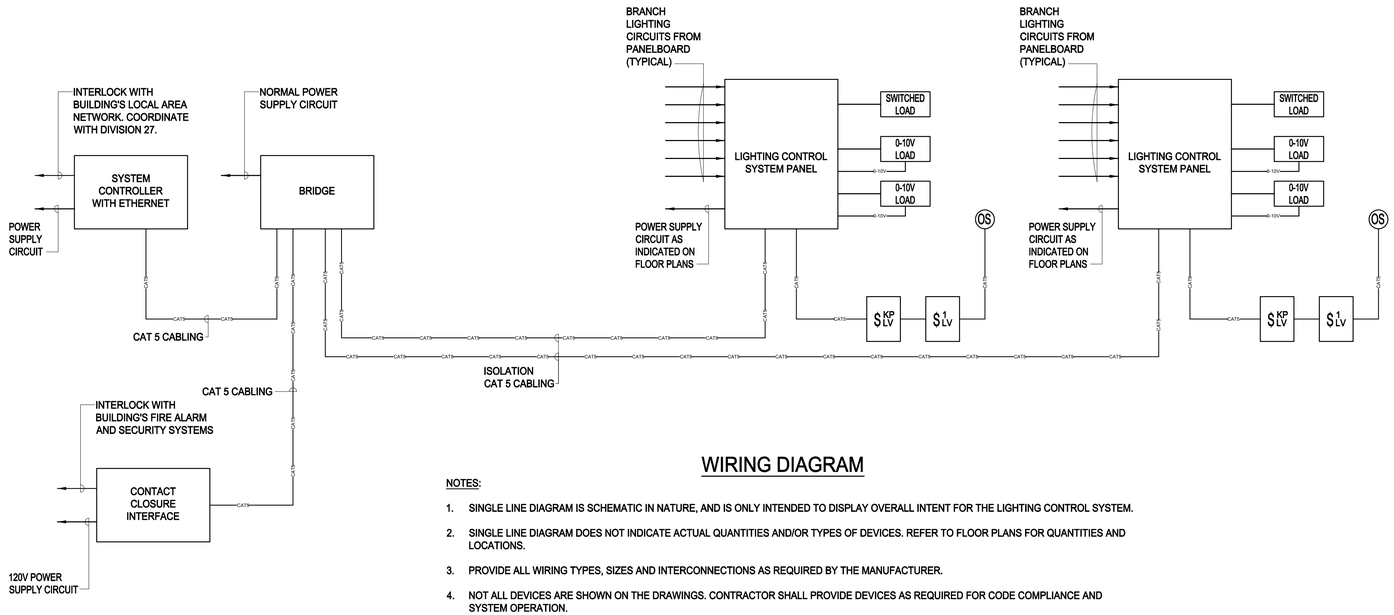
D. SIGN AND FLAGPOLE LIGHTING FIXTURES:
   a. BETWEEN DUSK AND DAWN., SIGN AND FLAGPOLE LIGHTING FIXTURES SHALL BE ON AT 100% OUTPUT.
   b. BETWEEN 12 A.M. AND 6 A.M., SIGN AND FLAGPOLE LIGHTING FIXTURES SHALL BE OFF.
   c. BETWEEN 6 A.M. AND DAWN, SIGN AND FLAGPOLE LIGHTING FIXTURES SHALL BE ON AT 100%.

E. ALL EXTERIOR LIGHTING FIXTURES SHALL TURN ON IN A FIRE ALARM EVENT OR SECURITY BREACH BY MEANS OF AN INTERFACE WITH THE INTRUSION DETECTION SYSTEM PROVIDED UNDER DIVISION 28, AND SHALL REMAIN ON UNTIL THE INTRUSION DETECTION SYSTEM IS RESET TO NORMAL CONDITIONS. AT THAT TIME, LIGHTING FIXTURES SHALL REVERT TO NORMALLY PROGRAMMED SETTINGS.

F. VERIFY TIME BASED CONTROL SCHEDULES WITH OWNER.

2 LIGHTING CONTROL SYSTEM - EXTERIOR

NO SCALE



WIRING DIAGRAM

NOTES:

1. SINGLE LINE DIAGRAM IS SCHEMATIC IN NATURE, AND IS ONLY INTENDED TO DISPLAY OVERALL INTENT FOR THE LIGHTING CONTROL SYSTEM.
2. SINGLE LINE DIAGRAM DOES NOT INDICATE ACTUAL QUANTITIES AND/OR TYPES OF DEVICES. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
3. PROVIDE ALL WIRING TYPES, SIZES AND INTERCONNECTIONS AS REQUIRED BY THE MANUFACTURER.
4. NOT ALL DEVICES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR CODE COMPLIANCE AND SYSTEM OPERATION.
5. ALL LIGHTING LOADS SERVING THE SAME SPACE SHALL OPERATE IN UNISON DURING NORMAL POWER CONDITIONS.
6. EMERGENCY/LIFE SAFETY LIGHTING LOADS SHALL BE ILLUMINATED CONTINUOUSLY DURING NORMAL POWER FAILURES.
7. RELAYS SHALL BE "NORMALLY CLOSED" DURING NORMAL POWER FAILURES.
8. LIGHTING FIXTURES SERVED BY LIGHTING CONTROL PANELS SHALL ILLUMINATE DURING SECURITY AND FIRE ALARM EVENTS.

SEQUENCE OF OPERATION

OVERALL SYSTEM

A. PROVIDE ETHERNET GATEWAY WITH CONNECTION TO BUILDING LOCAL AREA NETWORK (LAN). COORDINATE WITH DIVISION 27.

B. PROVIDE CONTACT CLOSURE INTERFACE FOR FIRE ALARM / SECURITY INTERLOCK. PROGRAM LIGHTS TO TURN ON IF SIGNAL IS RECEIVED FROM FIRE ALARM / SECURITY SYSTEM. COORDINATE WORK WITH DIVISION 28.

C. VERIFY TIME BASED CONTROL SCHEDULES WITH OWNER.

3 LIGHTING CONTROLS - OVERALL SYSTEM

NO SCALE

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

DAVIS BOWEN & FRIEDEL, INC.
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LIGHTING CONTROL SEQUENCES

Dwg.No.: **E403**

LCP-1

POWER SUPPLY: 120VAC
SUPPLY CIRCUIT: L1AL-13
A.I.C. RATING: 18K
LIGHTING CONTROL PANEL: LCP-1
LOCATION: AVELEC 103

RELAY NO.	POLES	AMPERES	VOLTAGE	PANELBOARD CIRCUIT	CIRCUIT DESCRIPTION	REMARKS
1	1	20	120	L1A-1	STACKS 133 - NORTH AREA	--
2	1	20	120	L1A-3	STACKS 133 - CENTER AREA	--
3	1	20	120	L1A-5	STACKS 133 - SOUTH AREA	--
4	1	20	120	L1A-7	STACKS 133 - CHILDRENS AREA	--
5	1	20	120	L1A-5	CIRCULATION 128	--
6	1	20	120	L1A-5	WORK ROOM 127	--
7	1	20	120	L1A-2	EXG VESTIBULE 132	--
8	1	20	120	L1A-4	CORRIDOR 4 123	--
9	1	20	120	L1A-6	VESTIBULE 121	--
10	1	20	120	L1A-10	TERRACE	--
11	1	20	120	L1A-12	EXTERIOR	--
12	1	20	120	L1A-12	COVERED ENTRANCE	--
13	1	20	120	L1A-12	FLAGPOLE/SIGN	--
14	1	20	120	L1A-12	POLE MOUNTED EXTERIOR LIGHTS	--
15	1	20				
16	1	20				

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + DIGITAL TIME CLOCK

NOTES:
1. ALL SEQUENCES OF OPERATION SHALL BE VERIFIED WITH OWNER AND ADJUSTED AS REQUIRED.
2. PROVIDE BARRIER TO SEPARATE DIFFERENT VOLTAGE CONDUCTORS.
3. PROVIDE POWER SUPPLY FOR 4 OR MORE DEVICES DAISEY CHAINED ON ONE CONTROL CIRCUIT.
4. SWEEP LIGHTS OFF EVERY HOUR, STARTING AT 11PM UNTIL 6AM.

RCP-1

POWER SUPPLY: 120VAC
SUPPLY CIRCUIT: P1A1-31
A.I.C. RATING: 18K
RECEPTACLE CONTROL PANEL: RCP-1
LOCATION: STOR 4 115

RELAY NO.	POLES	AMPERES	VOLTAGE	PANELBOARD CIRCUIT	CIRCUIT DESCRIPTION	REMARKS
1	1	20	120	P1A1-7	RCPT - BREAKROOM 111	--
2	1	20	120	P1A1-9	RCPT - COUNTERTOP BREAK RM 111	--
3	1	20	120	P1A1-11	RCPT - COUNTERTOP BREAK RM 111	--
4	1	20	120	P1A1-13	RCPT - COUNTERTOP BREAK RM 111	--
5	1	20	120	P1A1-2	MEETING ROOM - SOUTH FLOORBOX	--
6	1	20	120	P1A1-4	MEETING ROOM - NORTH FLOORBOX	--
7	1	20	120	P1A1-17	RCPT - MEETING ROOM 109 SOUTH	--
8	1	20	120	P1A1-19	RCPT - MEETING ROOM 109 WEST	--
9	1	20	120	P1A1-21	RCPT - MEETING ROOM 109 NORTH	--
10	1	20	120	P1A1-23	RCPT - MEETING ROOM 109 NORTH	--
11	1	20	120	P1A1-25	RCPT - MEETING ROOM 109 EAST	--
12	1	20	120	P1A1-27	RCPT - MEETING ROOM 109 SOUTH	--
13	1	20	120	P1A1-29	RCPT - MEETING ROOM 109 EAST	--
14	1	20	120		SPARE	--
15	1	20	120		SPARE	
16	1	20	120		SPARE	

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + DIGITAL TIME CLOCK

NOTES:
1. SWEEP RECEPTACLES OFF AT 10PM AND ON AT 6AM. VERIFY THESE HOURS WITH OWNER.

L1A1

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 100 MAIN CIRCUIT BREAKER
A.I.C. RATING: 22K
PANELBOARD: L1A1
LOCATION: STOR 4 115

CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	LTG - STACKS 133 - NORTH AREA	1.01	x	x	2	1	20	LTG - 124, 126, 129, 130, 131, 132	0.69	x	x
3	1	20	LTG - STACKS 133 CENTER, STUDY 11	x	1.24	x	4	1	20	LTG - 101, 102, 107, 108, 110, 111, 112, 114, 116, 117	x	0.86	x
5	1	20	LTG - 127, 128, STACKS 133 S, COR. 134, 135	x	x	1.01	6	1	20	LTG - 104, 105, 106, 109, 119, 120, 121	x	x	0.63
7	1	20	LTG - STACKS 133 - CHILDRENS AREA	0.39	x	x	8	1	20	LTG - MECH ATTIC	0.98	x	x
9	1	20	LTG - STOR 4 115	x	0.07	x	10	1	20	LTG - TERRACE	x	0.03	x
11	1	20	LTG - AVELEC 103	x	x	0.08	12	1	20	LTG - EXTERIOR	x	x	0.65
13	1	20	LCP-1 CTRL POWER	0.10	x	x	14	1	20	SPARE	--	x	x
15	1	20	SPARE	x	--	x	16	1	20	SPARE	x	--	x
17	1	20	SPARE	x	x	--	18	1	20	SPARE	x	x	--
19	1	20	SPARE	--	x	x	20	1	20	SPARE	--	x	x
21	1	20	SPARE	x	--	x	22	1	20	SPARE	x	--	x
23	1	20	SPARE	x	x	--	24	1	20	SPARE	x	x	--
25			SPACE	--	x	x	26			SPACE	--	x	x
27			SPACE	x	--	x	28			SPACE	--	--	x
29			SPACE	x	x	--	30			SPACE	x	x	--
			SUBTOTALS:	1.5	1.3	1.1				SUBTOTALS:	1.7	0.9	1.3

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + EQUIPMENT GROUND BAR

LOAD SUMMARY

PHASE:	A	B	C	TOTAL
TOTAL KVA:	3.1	2.2	1.7	7.0
DEMAND KVA:				7.0
TOTAL AMPERES:	25.6	18.3	14.3	19.4

NOTES:

P1A1

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 150 MAIN LUGS ONLY
A.I.C. RATING: 22K
PANELBOARD: P1A1
LOCATION: AVELEC 103

CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	RCPT - STOR 1 101, SPEC. COL 102	1.08	x	x	2	1	20	RCPT - FLOOR BOX MEETING, RM 109	0.36	x	x
3	1	20	RCPT - PITTS ARCHIVE 108	x	1.44	x	4	1	20	RCPT - FLOOR BOX MEETING, RM 109	x	0.36	x
5	1	20	RCPT - COR 3 107, TOIL 112	x	x	0.54	6	1	20	RCPT - AVELEC 103	x	x	0.54
7	1	20	RCPT - BREAK RM 111	1.44	x	x	8	1	20	RCPT - STOR 2 104	0.54	x	x
9	1	20	RCPT - COUNTERTOP BREAK RM 111	x	0.36	x	10	1	20	RCPT - COR 4 123	x	0.18	x
11	1	20	RCPT - COUNTERTOP BREAK RM 111	x	x	0.36	12	1	20	RCPT - MECH	x	x	0.54
13	1	20	RCPT - COUNTERTOP BREAK RM 111	0.75	x	x	14	1	20	FACP - STOR 2 104 (NOTES 2,3)	0.60	x	x
15	1	20	RCPT - REFRIG. BREAK RM 111 (NOTE 1)	x	1.00	x	16	1	20	PWR - CHANGING TABLE - TOIL 114	x	1.00	x
17	1	20	RCPT - MEETING ROOM 109 SOUTH	x	x	0.36	18	1	20	RCPT - EXTERIOR	x	x	0.36
19	1	20	RCPT - MEETING ROOM 109 WEST	0.72	x	x	20	1	20	SPARE	--	x	x
21	1	20	RCPT - MEETING ROOM 109 NORTH	x	0.72	x	22	1	20	SPARE	x	--	x
23	1	20	RCPT - MEETING ROOM 109 NORTH	x	x	0.72	24	1	20	SPARE	x	x	--
25	1	20	RCPT - MEETING ROOM 109 EAST	0.36	x	x	26	1	20	SPARE	--	x	x
27	1	20	RCPT - MEETING ROOM 109 SOUTH	x	1.26	x	28	1	20	SPARE	x	--	x
29	1	20	RCPT - MEETING ROOM 109 EAST	x	x	0.36	30	1	20	SPARE	x	x	--
31	1	20	CTRL PWR - RCP-1	0.20	x	x	32	1	20	SPARE	--	x	x
33	1	20	SPARE	x	--	x	34	1	20	SPARE	x	--	x
35	1	20	SPARE	x	x	--	36	1	20	SPARE	x	x	--
37			SPACE	--	x	x	38			SPACE	--	x	x
39			SPACE	x	--	x	40			SPACE	x	--	x
41			SPACE	x	x	--	42			SPACE	x	x	--
			SUBTOTALS:	4.6	4.8	2.3				SUBTOTALS:	1.5	1.5	1.4

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + EQUIPMENT GROUND BAR

LOAD SUMMARY

PHASE:	A	B	C	TOTAL
TOTAL KVA:	6.1	6.3	3.8	16.2
DEMAND KVA:				14.2
TOTAL AMPERES:	50.4	52.5	31.5	44.8

NOTES:
1. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER WITH 5mA TRIP THRESHHOLD FOR PERSONNEL PROTECTION.
2. PROVIDE CIRCUIT BREAKER HANDLE CLAMP TO PREVENT ACCIDENTAL OPERATION.
3. LABEL CIRCUIT BREAKER "FIRE ALARM" IN WHITE LETTERING ON RED LABEL.

RCP-2

POWER SUPPLY: 120VAC
SUPPLY CIRCUIT: P1A2-26
A.I.C. RATING: 18K
RECEPTACLE CONTROL PANEL: RCP-2
LOCATION: STOR 4 115

RELAY NO.	POLES	AMPERES	VOLTAGE	PANELBOARD CIRCUIT	CIRCUIT DESCRIPTION	REMARKS
1	1	20	120	P1A2-10	RCPT - STACKS 133 EAST	--
2	1	20	120	P1A2-35	RCPT - STACKS 133 SOUTH	--
3	1	20	120	P1A2-27	RCPT - CIRCULATION 128 EAST	--
4	1	20	120	P1A1-21	RCPT - WORK RM 127 SOUTH	--
5	1	20	120	P1A2-23	RCPT - WORK RM 127 WEST	--
6	1	20	120	P1A2-25	RCPT - CIRCULATION 128 NORTH	--
7	1	20	120	P1A2-33	RCPT - WORK RM 127	--
8	1	20	120	P1A2-18	RCPT - STACKS 133 WEST	--
9	1	20	120	P1A2-31	RCPT - OUTSIDE STUDY ROOM 113	--
10	1	20	120		SPARE	--
11	1	20	120		SPARE	--
12	1	20	120		SPARE	--
13	1	20	120		SPARE	--
14	1	20	120		SPARE	--
15	1	20	120		SPARE	
16	1	20	120		SPARE	

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + DIGITAL TIME CLOCK

NOTES:
1. SWEEP RECEPTACLES OFF AT 10PM AND ON AT 6AM. VERIFY THESE HOURS WITH OWNER.

MDP

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 800 MAIN CIRCUIT BREAKER
A.I.C. RATING: 25K
DISTRIBUTION PANELBOARD: MDP
LOCATION: AVELEC 103

CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRCUIT NO.	CIRCUIT BREAKER POLE	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
				5.25	x	x					3.07	x	x
1	3	150	PANEL P1A1 - AVELEC 103	x	4.06	x	2	3	100	PANEL L1A1 - AVELEC 103	x	2.20	x
				x	x	3.06					x	x	1.72
				10.30	x	x					8.26	x	x
3	3	150	PANEL P1A2 - STOR 4 115	x	10.30	x	4	3	150	PANEL M1A1 - STOR 4 115	x	8.70	x
				x	x	8.86					x	x	6.35
				11.90	x	x					19.40	x	x
5	3	200	PANEL MSP - MECH	x	11.90	x	6	3	200	CHILLER - EXTERIOR	x	19.40	x
				x	x	11.90					x	x	19.40
				1.67	x	x					--	x	x
7	3	100	AHU-1 - ABOVE ARCHIVE ROOM	x	1.67	x	8	3	60		x	--	x
				x	x	1.67					x	x	--
				--	x	x					--	x	x
9	3	15	METER	x	--	x	10	--	--	SPD	x	--	x
				x	x	--					x	x	--
				--	x	x					--	x	x
11	--	--	SPACE	x	--	x	12	--	--		x	--	x
				x	x	--					x	x	--
			SUBTOTALS:	29.1	27.9	25.5				SUBTOTALS:	30.7	30.3	27.5

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + EQUIPMENT GROUND BAR

LOAD SUMMARY

PHASE:	A	B	C	TOTAL
TOTAL KVA:	59.9	58.2	53.0	171.0
DEMAND KVA:				171.0
TOTAL AMPERES:	499.3	484.8	441.0	474.7

NOTES:

P1A2

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 150 MAIN CIRCUIT BREAKER
A.I.C. RATING: 22K
PANELBOARD: P1A2
LOCATION: STOR 4 115

CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRC. NO.	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1	1	20	RCPT - DIRECTORS OFFICE 124	1.08	x	x	2	1	20	RCPT - EWC (NOTE 1)	1.00	x	x
3	1	20	RCPT - DIRECTORS OFFICE 124	x	1.44	x	4	1	20	RCPT - JAN 118/CORRIDOR 2	x	0.90	x
5	1	20	RCPT - WORK RM 126 NORTH	x	x	0.54	6	1	20	RCPT - STACKS 133 NORTH	x	x	0.90
7	1	20	RCPT - WORK RM 126 EAST	0.90	x	x	8	1	20	RCPT - STACKS 133 NORTH	0.54	x	x
9	1	20	RCPT - WORK RM 126 SOUTH, RISER 1	x	1.44	x	10	1	20	RCPT - STACKS 133 EAST	x	0.54	x
11	1	20	RCPT - WORK RM 126 WEST	x	x	0.36	12	1	20	RCPT - STACKS 133 EAST	x	x	0.72
13	1	20	RCPT - WORK RM 126 WEST	0.72	x	x	14	1	20	RCPT - STACKS 133 SOUTH	1.08	x	x
15	1	20	RCPT - IT RACK - IT RM 136	x	1.20	x	16	1	20	RCPT - STACKS 133 CENTER	x	0.90	x
17	1	20	RCPT - IT RACK - IT RM 136	x	x	1.20	18	1	20	RCPT - STACKS 133 WEST	x	x	1.44
19	1	20	RCPT - OFFICE 1 129	1.80	x	x	20	1	20	RCPT - STUDY RM 113	0.90	x	x
21	1	20	RCPT - WORK RM 127 SOUTH	x	1.44	x	22	1	20	RCPT - STACKS 133 WEST	x	0.18	x
23	1	20	RCPT - WORK RM 127 WEST	x	x	0.72	24	1	20	RCPT - STACKS 133 NORTH	x	x	0.90
25	1	20	RCPT - CIRCULATION 128 NORTH	1.08	x	x	26	1	20	CTRL PWR - RCP-2	0.20	x	x
27	1	20	RCPT - CIRCULATION 128 EAST	x	1.26	x	28	1	20	RCPT - IT ROOM 135	x	1.00	x
29	1	20	RCPT - BOOK DROP 131	x	x	1.08	30	1	20	PWR - ACCESS CTRL PANEL - IT ROOM 136	x	x	1.00
31	1	20	RCPT - OUTSIDE STUDY ROOM 113	0.72	x	x	32	1	20	PWR - SECURITY PANEL - IT ROOM 136	1.00	x	x
33	1	20	RCPT - WORK RM 127	x	1.08	x	34	1	20	RCPT - IT ROOM 136	x	1.00	x
35	1	20	RCPT - STACKS 133 SOUTH	x	x	0.54	36	1	20	RCPT - IT ROOM 136	x	x	1.00
37	1	20	AUTOMATIC DOORS - EXG VEST 132	0.80	x	x	38	1	20	RCPT - TERRACE	0.36	x	x
39	1	20	AUTOMATIC DOOR - STACKS (NOTE 2)	x	0.80	x	40	1	20	RCPT - AUTO LAV. - TOIL 112 (NOTE 1)	x	0.40	x
41	1	20	SPARE	x	x	--	42	1	20	RCPT - AUTO LAV. - TOIL 114, 116, 117 (NOTE 1)	x	x	0.72
43	1	20	SPARE	--	x	x	44	1	20	SPARE	--	x	x
45	1	20	SPARE	x	--	x	46	1	20	SPARE	x	--	x
47	1	20	SPARE	x	x	--	48	1	20	SPARE	x	x	--
49			SPACE	--	x	x	50			SPACE	--	x	x
51			SPACE	x	--	x	52			SPACE	x	--	x
53			SPACE	x	x	--	54			SPACE	x	x	--
			SUBTOTALS:	7.1	8.7	4.4				SUBTOTALS:	5.1	4.9	6.7

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: + EQUIPMENT GROUND BAR

LOAD SUMMARY

PHASE:	A	B	C	TOTAL
TOTAL KVA	12.2	13.6	11.1	36.9
DEMAND KVA				25.9
TOTAL AMPERES	101.4	113.1	92.6	102.4

NOTES:
1. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER WITH 5mA TRIP THRESHHOLD FOR PERSONNEL PROTECTION.
2. IF ALTERNATE IS NOT ACCEPTED, PLEASE UPDATE CIRCUIT DESCRIPTION TO SPARE.

STATE OF MARYLAND
DAVID R. ROFFMAN
No. 19755
PROFESSIONAL ENGINEER
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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WO# 24038

SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: TMC
Proj.No.: 0085B054.A01

SCHEDULES
ELECTRICAL
NEW WORK

Dwg.No.:
E501

OCCUPANCY SENSOR SCHEDULE

TYPE (OS#)	BASIS OF DESIGN (NOTE 1)		GENERAL INFORMATION				COVERAGE INFORMATION (NOTE 3)			REMARKS
	MANUFACTURER	SERIES	MOUNTING (NOTE 2)	OPERATING VOLTAGE	SENSING TECHNOLOGY(IES)	DAYLIGHT SENSOR	RANGE (SQ. FT.)	PATTERN	ANGLE (DEGREES)	
OS1	HUBBELL	NXOS-OM-DT 2	CEILING MOUNT	12-24 VAC/VDC	DUAL TECHNOLOGY (PIR & U/S)	--	2000	CIRCULAR	360	
OS2	HUBBELL	NXOS-OM-DT 1	CEILING MOUNT	12-24 VAC/VDC	DUAL TECHNOLOGY (PIR & U/S)	--	600	CIRCULAR	360	
OS3	HUBBELL	NXOS-LODT	CEILING CORNER MOUNT	12-24 VAC/VDC	DUAL TECHNOLOGY (PIR & U/S)	--	--	WIDE ANGLE	120	
S[26]	HUBBELL	LHMTS-1	WALL MOUNT SWITCH	120-277 VAC	DUAL TECHNOLOGY (PIR & U/S)	--	625	SEMI-CIRCULAR	180	

NOTES:
1. ONLY BASIS OF DESIGN MANUFACTURER AND SERIES HAS BEEN VERIFIED FOR PERFORMANCE. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, EQUIVALENT SENSORS BY OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS MAY BE INCORPORATED INTO THE WORK.
2. MOUNTING INDICATED IS TYPICAL BASED ON SENSOR TYPE. REVIEW FLOOR PLAN DRAWINGS FOR ANY VARIATIONS.
3. COVERAGE PATTERNS AND RANGES ARE BASED ON BASIS OF DESIGN MANUFACTURER.
4. SEQUENCE OF OPERATION SHALL BE REVIEWED WITH OWNER'S REPRESENTATIVE PRIOR TO PROGRAMMING. MAKE ALL ADJUSTMENTS TO SUIT OWNER'S DESIRED SYSTEM OPERATION.
5. MOUNTING HEIGHT SHALL BE 8'-0" AFF U.O.N.

NETWORK WALL SWITCH SCHEDULE

SWITCH ID	BASIS OF DESIGN		CONTROLS
	MANUFACTURER	SERIES	BUTTON
SLV1	HUBBELL	NXSWR-2	2
SLV1D	HUBBELL	NXSWR-ORLO	4
SLV2D	HUBBELL	NXSWR-6	6

NOTES:
1. SEE SEQUENCES OF OPERATION FOR ADDITIONAL INFORMATION.

POWER PACK SCHEDULE

TYPE (PP#)	BASIS OF DESIGN (NOTE 1)		GENERAL INFORMATION		
	MANUFACTURER	SERIES	MOUNTING (NOTE 2)	DIMMING	OPERATING VOLTAGE
PPD	HUBBELL	NXRCFX-2RD	WALL/ABOVE CEILING	0-10VDC DIMMING OUTPUT	120-277 VAC
PPL	HUBBELL	UVPP	WALL/ABOVE CEILING	--	120 VAC

NOTES:
1. ONLY BASIS OF DESIGN MANUFACTURER AND SERIES HAS BEEN VERIFIED FOR PERFORMANCE. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, EQUIVALENT POWER PACKS BY OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS MAY BE INCORPORATED INTO THE WORK.

VOLTAGE: 120/208 3 PHASE, 4 WIRE
AMPERES: 200 MAIN CIRCUIT BREAKER
A.I.C. RATING: 22K

PANELBOARD: **M1A1**
LOCATION: STOR 4 115

CIRC. NO	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C	CIRC. NO	CIRCUIT BREAKER P	CIRCUIT BREAKER TRIP	CIRCUIT DESCRIPTION	KVA PER PHASE A	KVA PER PHASE B	KVA PER PHASE C
1				--	x	x	2				--	x	x
3	3	30	EX. AC-1	x	--	x	4	3	30	EX. HUMIDIFIER	x	--	x
5				x	x	--	6				x	x	--
7				--	x	x	8				2.50	x	x
9	3	30	EX. HVAC UNIT	x	--	x	10	2	30	EX. EHU - COR 3	x	2.50	x
11				x	x	--	12	1	20	RCPT - ERHP-1, ERHP-2 - RMS 130, 131	x	x	0.75
13	2	20	EX. EHU - STACKS	2.00	x	x	14	1	20	RCPT - ERHP-3, ERHP-4 - RMS 106, 121	1.06	x	x
15				x	2.00	x	16	1	15	TPS-1 - JAN 118	x	0.60	x
17	2	20	EX. EHU - STACKS	x	x	2.00	18	1	15	TPS-2 - MECH	x	x	0.60
19				2.00	x	x	20	1	15	DRP-01 - MECH	0.10	x	x
21	2	20	EX. EHU - STACKS	x	2.00	x	22	2	30	EWH - MECH	x	1.00	x
23				x	x	2.00	24				x	x	1.00
25	1	15	ATC-1 - MECH	0.50	x	x	26	2	30	HPO-1 - AV ELEC	1.25	x	x
27	1	15	ATC-2 - MECH	x	0.60	x	28				x	1.25	x
29	1	15	EX. ATCS - MECH	x	x	1.00	30	2	30	HPO-2 - IT ROOM	x	x	1.25
31	2	20	WALL HEATER - EX. VEST 132	1.50	x	x	32				1.25	x	x
33				x	1.50	x	34	1	15	EF-1 - COR 4	x	0.50	x
35	1	15	SPARE	x	x	--	36	1	15	TPS-3 - RISER/STOR 130	x	x	0.60
37	1	20	SPARE	--	x	x	38	1	20	SPARE	--	x	x
39	1	20	SPARE	x	--	x	40	1	20	SPARE	x	--	x
41	1	20	SPARE	x	x	--	42	1	20	SPARE	x	x	--
43	1	20	SPARE	--	x	x	44	1	20	SPARE	--	x	x
45	1	20	SPARE	x	--	x	46	1	20	SPARE	x	--	x
47	1	20	SPARE	x	x	--	48	1	20	SPARE	x	x	--
49			SPACE	--	x	x	50			SPACE	--	x	x
51			SPACE	x	--	x	52			SPACE	x	--	x
53			SPACE	x	x	--	54			SPACE	x	x	--
			SUBTOTALS:	6.1	6.1	5.0				SUBTOTALS:	6.2	5.9	4.2

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS: +EQUIPMENT GROUND BAR

LOAD SUMMARY

PHASE:	A	B	C	TOTAL
TOTAL KVA	8.3	8.7	6.4	23.3
DEMAND KVA				23.3
TOTAL AMPERES	68.8	72.4	52.9	64.7

NOTES:

ELECTRIC POWER AND ENERGY METER SCHEDULE

METER #	BASIS OF DESIGN (NOTE 1) MANUFACTURER	BASIS OF DESIGN (NOTE 1) SERIES	METERING TYPE	METERED LOAD DESIGNATION	METERED LOAD CATEGORY	MOUNTING	ENCLOSURE	DIMENSIONS (INCHES) WIDTH	DIMENSIONS (INCHES) HEIGHT	DIMENSIONS (INCHES) DEPTH	REMARKS
M1	SATEC	BFM-136	MULTI POINT	MAIN DISTRIBUTION PANELBOARD	--	SURFACE	NEMA 1	23.62	9.06	6.10	NOTES 2,3,4
				PANELBOARD 'P1A1'	PLUG LOADS						
				PANELBOARD 'L1A1'	LIGHTING						
				PANELBOARD 'P1A2'	PLUG LOADS						
				PANELBOARD 'M1A1'	HVAC						
				PANELBOARD 'MSP'	HVAC						
				CHILLER	HVAC						
				AHU-1	HVAC						
				SPARE	--						
				SPARE	--						
				SPARE	--						
				SPARE	--						

NOTES:
1. ONLY BASIS OF DESIGN HAS BEEN VERIFIED FOR PERFORMANCE. BY PROVIDING OTHER THAN BASIS OF DESIGN METER, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ALL NECESSARY ADJUSTMENTS AND MODIFICATIONS FOR A SATISFACTORY INSTALLATION.
2. INTERLOCK WITH BMS SYSTEM, WHICH SHALL HAVE THE CAPABILITY TO STORE REAL-TIME ENERGY CONSUMPTION DATA AND PROVIDE HOURLY, DAILY, MONTHLY, AND YEARLY LOGGED DATA FOR EACH END-USE CATEGORY.
3. REQUIRED METERING SYSTEMS AND EQUIPMENT SHALL HAVE THE CAPABILITY TO PROVIDE AT LEAST HOURLY DATA THAT IS FULLY INTEGRATED INTO THE DATA ACQUISITION SYSTEM AND GRAPHICAL ENERGY REPORT.
4. BMS SYSTEM SHALL HAVE THE CAPABILITY TO STORE THE DATA FROM THE REQUIRED METERS FOR A MINIMUM OF 36 MONTHS.

HANDHOLE SCHEDULE

HANDHOLE IDENTIFICATION NUMBER (HH#)	HANDHOLE / PULLBOX DIMENSIONS WIDTH (INCHES)	LENGTH (INCHES)	DEPTH (NOTE 1)	ENCLOSURE BOX TYPE	ENCLOSURE BOTTOM	ENCLOSURE COVER (NOTE 2) COVER TYPE	LEGEND	MINIMUM TIER RATING (NOTE 3)	REMARKS
HG1	12" x 12"		12"	OPEN	OPEN	SOLID	GROUND	TIER 15	NOTE 4

NOTES:
1. STACK BOXES OR PROVIDE EXTENSIONS AS REQUIRED TO ACCOMMODATE CONDUITS TERMINATING AT BOXES WITH TOP OF ENCLOSURE FLUSH WITH FINISHED GRADE ELEVATION
2. ENCLOSURE COVERS SHALL BE HEAVY-DUTY BOLT-DOWN TYPE WITH GASKETING, UNLESS OTHERWISE NOTED.
3. TIER RATING APPLIES TO HANDHOLE ENCLOSURE AND COVER. TIER RATING SHALL BE IN DETERMINED IN COMPLIANCE WITH ANSI/SCTE 77-2007.
4. PROVIDE HANDHOLE AT EACH GROUND ROD AT GROUNDING TRIAD FOR TESTING, INSPECTION, ETC.

UNDERGROUND DUCTS AND RACEWAYS SCHEDULE

DUCT BANK IDENTIFICATION NUMBER (D#)	CONDUIT DESCRIPTION	CONDUIT INFORMATION QUANTITY(IES)	CONDUIT INFORMATION SIZE(S)	DUCT BANK INFORMATION CONDUIT ARRANGMENT	DUCT BANK INFORMATION ENCASEMENT	REMARKS
DE1	SECONDARY ELECTRIC SERVICE	3	4"	1 x 3	DIRECT-BURIED	

NOTES:
1. REFER TO DUCT BANK DETAIL DRAWINGS FOR DUCT BANK INSTALLATION REQUIREMENTS.

STATE OF MARYLAND — DAVID R. HOFFMAN — No. 19755 — PROFESSIONAL ENGINEER

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Proj.No.: 0085B054.A01

SCHEDULES ELECTRICAL NEW WORK

Dwg.No.: **E502**

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE (NOTE 1)	DESCRIPTION	BASIS OF DESIGN (NOTE 2)		APPROVED EQUAL(S) (NOTE 3)		LIGHT SOURCE CHARACTERISTICS/PERFORMANCE							DRIVER TYPE	EMERGENCY OPTION	INPUT VA / WATTS (NOTE 4)	INPUT VOLTAGE	NOMINAL DIMENSIONS (NOTE 6)				MOUNTING (NOTE 7)	REMARKS
						TYPE	DELIVERED LUMENS (NOTE 4)	CCT	CRI (MIN)	LPW (MIN)	LUMEN MAINTENANCE (NOTE 5)						LENGTH (INCHES)	WIDTH (INCHES)	DEPTH (INCHES)	DIAMETER (INCHES)		
		MANUFACTURER	SERIES	MANUFACTURER	SERIES						L-RATING	HOURS										
A1	2' X 4' RECESSED LAY-IN VOLUMETRIC TROFFER LED LUMINAIRE WITH DIE-FORMED CODE GAUGE COLD ROLLED STEEL HOUSING, MEDIUM LUMEN OUTPUT, HIGH EFFICIENCY REMOVABLE ACRYLIC CENTER LENS WITH CURVE SHIELDING.	COLUMBIA	LCAT 24	HE WILLIAMS LITHONIA	PT 2BLT4	LED	5131	4000K	80	154	L80	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	33.3	120-277VAC	47.75	23.77	3.98	--	RECESSED, ACT CEILING	
A2	SAME AS TYPE 'A1' BUT WITH HIGH LUMEN OUTPUT.	COLUMBIA	LCAT 24	HE WILLIAMS LITHONIA	PT 2BLT4	LED	5877	4000K	80	157	L80	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	37.5	120-277VAC	47.75	23.77	3.98	--	RECESSED, ACT CEILING	
B1	2' X 2' RECESSED LAY-IN VOLUMETRIC TROFFER LED LUMINAIRE WITH DIE-FORMED CODE GAUGE COLD ROLLED STEEL HOUSING, HIGH LUMEN OUTPUT, HIGH EFFICIENCY REMOVABLE ACRYLIC CENTER LENS WITH CURVE SHIELDING.	COLUMBIA	LCAT 22	HE WILLIAMS LITHONIA	PT 2BLT2	LED	4333	4000K	80	150	L80	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	29	120-277VAC	23.75	23.77	3.98	--	RECESSED, ACT CEILING	
B2	SAME AS TYPE 'B1' BUT WITH VERY HIGH LUMEN OUTPUT.	COLUMBIA	LCAT 22	HE WILLIAMS LITHONIA	PT 2BLT2	LED	4821	4000K	80	147	L80	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	32.5	120-277VAC	23.75	23.77	3.98	--	RECESSED, ACT CEILING	
C	4' SURFACE/WALL-MOUNTED LED LIGHTING FIXTURE WITH ROUND LENS. HOUSING, WIREWAY, AND ENDS ARE FORMED FROM CODE-GAUGE STEEL.	COLUMBIA	LCL	HE WILLIAMS LITHONIA	75R ZL1D	LED	5411	4000K	80	129	L80	50,000	ELECTRONIC LED DRIVER	NONE	42	120-277VAC	48	4.5	3.81	--	SURFACE, WALL	
D1	6" RECESSED ROUND LED DOWNLIGHT WITH EXTRA WIDE DISTRIBUTION AND SEMI-SPECULAR FINISH.	PRESCOLITE	LTR-6RD-H	HE WILLIAMS LITHONIA	6DR LDN6	LED	1063	4000K	80	89	L70	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	12	--	--	--	6-7/16	6-1/4	RECESSED, GWB CEILING	
E1	COMPACT INDOOR ARCHITECTURAL EMERGENCY LIGHTING UNIT WITH HIGH IMPACT AND UV STABLE THERMOPLASTIC HOUSING, TWO (2) INTEGRAL, FULLY-ADJUSTABLE LED LAMP HEADS AND SELF-TEST/SELF DIAGNOSTICS. FINISH TO BE SELECTED BY ARCHITECT.	DUAL LITE	EV	HE WILLIAMS	EMER/LED	LED	--	--	--	--	--	--	--	--	--	--				--	SURFACE, WALL	
ER	ARCHITECTURAL DIE-CAST EMERGENCY REMOTE LIGHTING UNIT. FULLY-GASKETED, WATERPROOF, TWO (2) LED LAMP HEADS.	DUAL LITE	EVO	HE WILLIAMS	WETDRHL	LED	--	--	--	--	--	--	--	--	--	--				--	SURFACE, WALL	
F4	4' LINEAR SUSPENDED LED LIGHTING FIXTURE WITH ROUND LENS. HOUSING, WIREWAY, AND ENDS ARE FORMED FROM CODE-GAUGE STEEL.	COLUMBIA	LCL	HE WILLIAMS LITHONIA	FS ZL1D	LED	5411	4000K	80	129	L80	50,000	ELECTRONIC LED DRIVER	NONE	42	120-277VAC	48	4.5	3.81	--	SUSPENDED, AIRCRAFT CABLE	
G	2' x 4' RECESSED LAY-IN TROFFER LED LUMINAIRE WITH ACRYLIC LENS AND LOW LUMEN OUTPUT.	COLUMBIA	LJT 24	HE WILLIAMS LITHONIA	LPT 2GTL4	LED	4334	4000K	80	127	L80	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	34	120-277VAC	47.75	23.77	3.98	--	RECESSED, ACT CEILING	
H	6" RECESSED ROUND LED DOWNLIGHT WITH EXTRA WIDE DISTRIBUTION, SEMI-SPECULAR FINISH, AND DAMP LOCATION LISTED.	PRESCOLITE	LTR-6RD-H	HE WILLIAMS LITHONIA	6DR LDN6	LED	665	4000K	80	85	L70	60,000	0-10V DIMMING LED DRIVER, 1% MIN	NONE	7.8	--	--	--	6-7/16	6-1/4	RECESSED, GWB CEILING	
I																						
J	EXTERIOR ARCHITECTURAL LED SURFACE MOUNTED FIXTURE WITH FORWARD THROW DISTRIBUTION AND DIE-CAST ALUMINUM HOUSING.	BEACON	LSQ1-25	CURRENT LITHONIA	ECP1 CNY LED	LED	3181	4000K	70	131	L70	185,000	0-10V DIMMING LED DRIVER, 10% MIN	NONE	26	120-277VAC	10	10	4		SURFACE, CEILING	
K	EXTERIOR ARCHITECTURAL LOW GLARE LED EXTERIOR WALL PACK WITH FORWARD THROW DISTRIBUTION AND DIE-CAST ALUMINUM HOUSING.	BEACON	VPW1	CURRENT LITHONIA	EWLS WDGE1 LED	LED	1993	4000K	80	85	L70	60,000	0-10V DIMMING LED DRIVER, 10% MIN	NONE	14	120-277VAC	7.96		5.5	--	SURFACE, WALL	
X1	UNIVERSALLY-MOUNTED LED EXIT SIGN WITH NIMH BATTERY; UV STABLE THERMOPLASTIC HOUSING, DAMP LOCATION LISTED. FINISH BY ARCHITECT AND LETTER COLOR BY AHJ.	DUAL LITE	EVE	HE WILLIAMS	EXIT	LED	--	--	--	--	--	--	--	INTERNAL BATTERY	1.94	120-277VAC	9.63	11.5	1.5	--	UNIVERSAL (WALL,CEILING)	
X2	COMBINATION LED EMERGENCY LIGHT/EXIT SIGN WITH REMOTE CAPACITY.	DUAL LITE	EVC	HE WILLIAMS	EXIT/EM/LED	LED	--	--	--	--	--	--	--	INTERNAL BATTERY	2.42	120-277VAC	9	12	2.5	--	UNIVERSAL (WALL,CEILING)	

NOTES:
1. LUMINAIRES WITH A "#" SYMBOL AFTER THE LETTER ARE CONTINUOUS ROW MOUNTED. REFER TO FLOORPLANS FOR OVERALL LUMINAIRE LENGTHS. FOR EXAMPLE, A22 WOULD BE 22'-0" NOMINAL OVERALL LENGTH, UNLESS OTHERWISE INDICATED.
2. ONLY BASIS OF DESIGN FIXTURE INDICATED HAS BEEN VERIFIED FOR PERFORMANCE.
3. ALTERNATE MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO, THOSE LISTED BELOW. BEING LISTED DOES NOT GUARANTEE APPROVAL OF SUBMITTED FIXTURE(S); FIXTURE(S) MUST COMPLY WITH PROJECT REQUIREMENTS AND MEET OR EXCEED BASIS OF DESIGN FIXTURE(S) PERFORMANCE.
4. VALUES LISTED ARE PER LINEAR FOOT FOR CONTINUOUS / ROW-MOUNTED LUMINAIRES.
5. L70 RATING SHALL BE REPORTED VALUE, WHICH SHALL BE DETERMINED IN ACCORDANCE WITH IESNA STANDARDS LM-80 AND TM-21.
6. REFER TO LUMINAIRE TYPE FOR OVERALL LENGTH OF CONTINUOUS / ROW-MOUNTED LUMINAIRES.
7. COORDINATE CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN (RCP).
8. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
9. FIXTURE SHALL BE SUSPENDED TO HEIGHT INDICATED ON DRAWINGS. FIELD VERIFY SUSPENSION LENGTH PRIOR TO ORDERING.
10. FIXTURE SHALL BE MOUNTED TO UNDERSIDE OF WALL CABINET. FIXTURE LENGTH SHALL BE COORDINATED WITH APPROVED CASEWORK SHOP DRAWINGS AND/OR FIELD VERIFIED PRIOR TO ORDERING.
11. FIXTURE SHALL BE MOUNTED WITHIN DISPLAY CASE. FIXTURE LENGTH SHALL BE COORDINATED WITH APPROVED CASEWORK SHOP DRAWINGS AND/OR FIELD VERIFIED PRIOR TO ORDERING.
12. EMERGENCY LIGHTS AND/OR EXIT SIGNS SHALL BE MOUNTED 8'-0" AFF UON. WHERE INSTALLED ABOVE DOORS, FIXTURE HEIGHT SHALL BE FIELD COORDINATED.
13. CONFIGURE MOUNTING, FACE CONFIGURATIONS AND CHEVRON INDICATORS WITH SYMBOLS ON THE FLOOR PLANS.
14. ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES, INCLUDING REMOTE HEADS, SHALL BE OF THE SAME MANUFACTURER AND SERIES.

STATE OF MARYLAND
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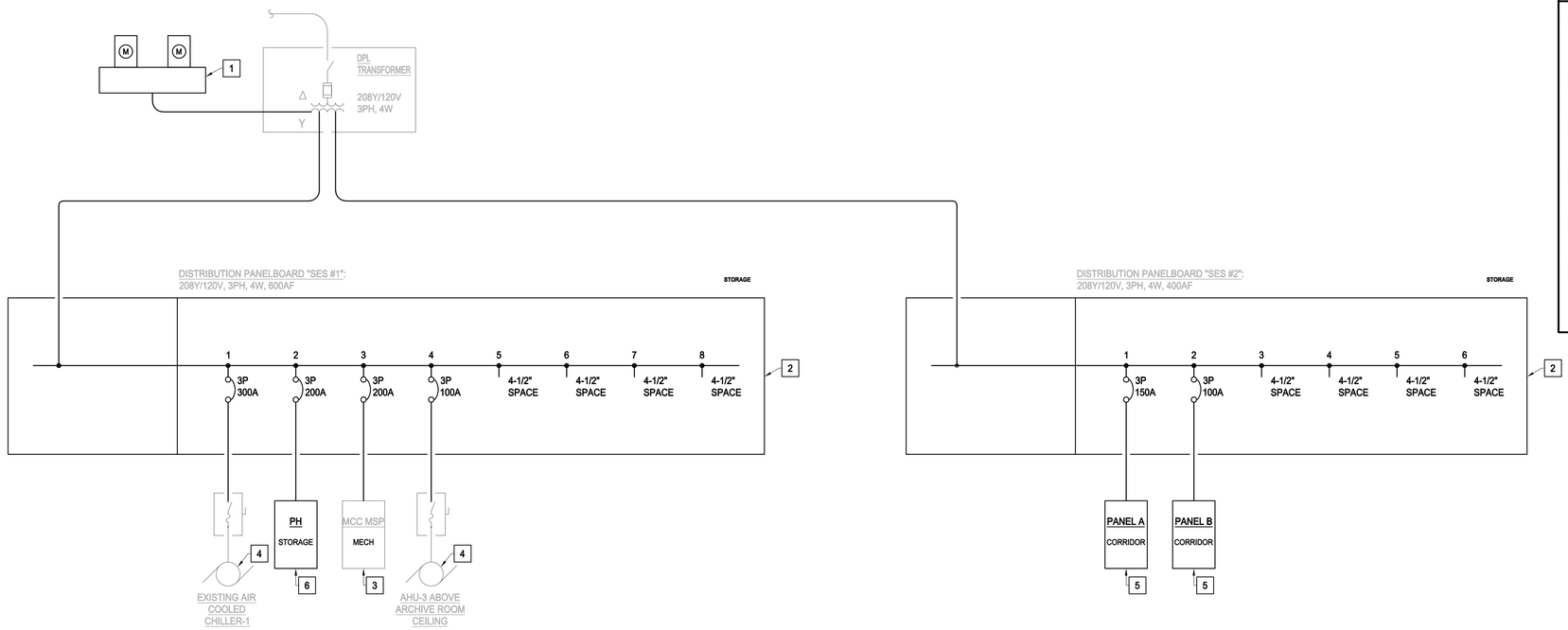
Dwg.No.: E503

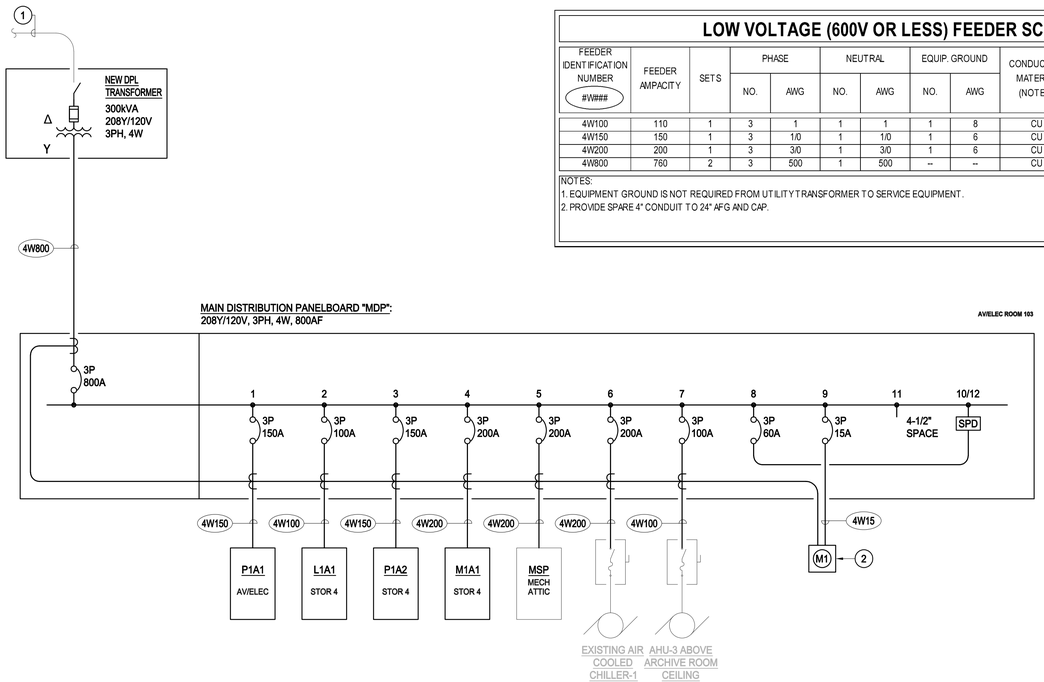


1 SINGLE LINE DIAGRAM - ELECTRICAL - DEMOLITION

NO SCALE

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. DISCONNECT, REMOVE AND DISPOSE OF DELMARVA POWER & LIGHT (DPL) UTILITY METERS AND WIRE TROUGH BELOW THE METERS. REMOVE ALL ASSOCIATED FEEDERS, RACEWAYS AND SUPPORT HARDWARE BACK TO SOURCE. COORDINATE WORK WITH DPL.
2. DISCONNECT, REMOVE, AND DISPOSE OF DISTRIBUTION PANELBOARD. REMOVE ALL ASSOCIATED FEEDERS, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.
3. RETAIN PANELBOARD FOR RECONNECTION UNDER NEW WORK. REMOVE ALL ASSOCIATED FEEDERS, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.
4. RETAIN MECHANICAL EQUIPMENT FOR RECONNECTION UNDER NEW WORK. REMOVE ALL ASSOCIATED FEEDERS, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.
5. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD. REMOVE ALL ASSOCIATED FEEDERS, BRANCH-CIRCUIT WIRES, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE.
6. DISCONNECT, REMOVE, AND DISPOSE OF PANELBOARD. REMOVE ALL ASSOCIATED FEEDERS, BRANCH-CIRCUIT WIRES, RACEWAYS, AND SUPPORT HARDWARE BACK TO SOURCE FOR HVAC EQUIPMENT BEING REMOVED. RETAIN BRANCH CIRCUIT WIRING FOR ALL HVAC EQUIPMENT THAT IS TO REMAIN FOR RECONNECTION UNDER NEW WORK.



LOW VOLTAGE (600V OR LESS) FEEDER SCHEDULE

FEEDER IDENTIFICATION NUMBER (#W###)	FEEDER AMPACITY	SETS	PHASE NO.	PHASE AWG	NEUTRAL NO.	NEUTRAL AWG	EQUIP. GROUND NO.	EQUIP. GROUND AWG	CONDUCTOR MATERIAL (NOTE 1)	CONDUIT SIZE	REMARKS
4W100	110	1	3	1	1	1	1	8	CU	1-1/2"	
4W150	150	1	3	1/0	1	1/0	1	6	CU	2"	
4W200	200	1	3	3/0	1	3/0	1	6	CU	2"	
4W800	760	2	3	500	1	500	--	--	CU	4"	NOTES 1,2

NOTES:
1. EQUIPMENT GROUND IS NOT REQUIRED FROM UTILITY TRANSFORMER TO SERVICE EQUIPMENT.
2. PROVIDE SPARE 4" CONDUIT TO 24" AFG AND CAP.

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. EXISTING PRIMARY CIRCUIT TO REMAIN.
2. MULTIPLE CIRCUIT POWER/ENERGY METER IN NEMA 1 ENCLOSURE FOR SUBMETERING BY LOAD CLASSIFICATION. SEE 'ELECTRICITY METERING' SCHEDULE AND SPECIFICATION SECTION 262713 ' ELECTRICITY METERING' FOR ADDITIONAL INFORMATION.

1 SINGLE LINE DIAGRAM - ELECTRICAL - NEW WORK

NO SCALE

STATE OF MARYLAND
DAVID R. HOFFMAN
No. 19755
PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19755, EXPIRATION DATE: 08/24/2026

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ENGINEER
Gipe Associates Inc.
Consulting Engineers
8719 Brooks Drive
Easton, Maryland 21601
Phone (410) 822-6688
Fax (410) 822-6306
WO# 24038

SNOW HILL LIBRARY RENOVATIONS
BID SET
307 N WASHINGTON ST
SNOW HILL, MD 21863

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By: TMC
Proj.No.: 0085B054.A01

SINGLE LINE DIAGRAM ELECTRICAL

Dwg.No.: **E601**

WALL MOUNTED TELECOMMUNICATIONS OUTLET

FLOOR MOUNTED TELECOMMUNICATIONS OUTLET

CEILING MOUNTED TELECOMMUNICATIONS OUTLET

EXISTING DATA OUTLET

BLANK FACEPLATE (DUPLEX ELEC)

1 CAT 6 DATA
(1 DUPLEX ELEC)

2 CAT 6 DATA
(1 QUAD ELEC)

4 CAT 6 DATA
(2 QUAD ELEC)

1 CAT 6 DATA, 1 RG-6 COAX
(1 QUAD ELEC)

2 CAT 6 DATA
(15' SERVICE LOOP WITH TWO PORT SURFACE BOX AND TWO CAT 6 PATCH CORDS)

2 CAT 6 DATA, AV CABLES TO C AND PR
(QUAD ELEC)

1 CAT 6 DATA FOR CONTROLLER

2 CAT 6 DATA, AV CABLES FROM L AND C
(DUPLEX ELECTRIC)

AV SYSTEM SOUND SPEAKER

AV SYSTEM CEILING MOUNTED SPEAKER

AV SYSTEM WALL MOUNTED SPEAKER

BATTERY POWERED 12" CLOCK

2" SLEEVE

4-4" SLEEVES

12" LADDER RACK

TWO 4" CONDUITS BETWEEN FLOORS

FLOOR MOUNTED 19" EQUIPMENT RACK

FLOOR MOUNTED 19" EQUIPMENT CABINET

TELECOM PRIMARY BONDING BUSBAR

20 AMP L5-20r TWISTLOCK RECEPTACLE (BY ELECTRICAL)

20 AMP QUAD RECEPTACLE (BY ELECTRICAL)

$\frac{3}{4}$"FIRERATED PLYWOOD WALL BOARD

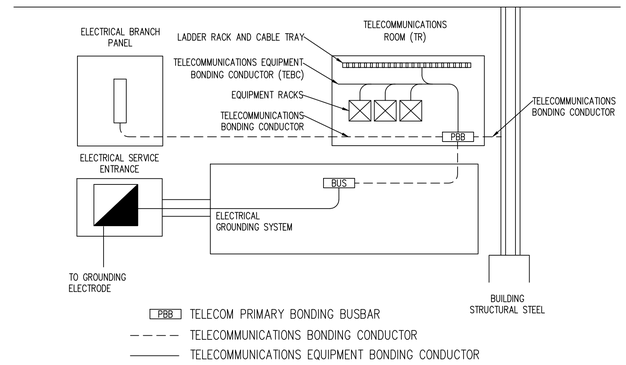
T1 SYMBOLS
NOT TO SCALE

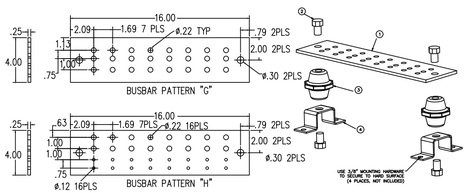
1. ALL ELECTRICAL SYSTEMS, EQUIPMENT, RACEWAYS, CABLING, BOXES, FIRESEALS, GROUNDING AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NEC GUIDELINES.
2. ALL LOW VOLTAGE CABLING MUST BE INSTALLED ACCORDING TO BICSI GUIDELINES.
3. ALL CABLING SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/TIA STANDARDS.
4. ALL CABLING SHALL BE APPROPRIATELY LABELED. SEE T SERIES DRAWINGS FOR EXACT REQUIREMENTS.
5. CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT PRIOR TO ITS APPROVAL BY THE ARCHITECT AND ENGINEER. CONTRACTOR WILL BE LIABLE FOR ITS REMOVAL IN ANY SUCH CASE.
6. ANY PENETRATION OF A FIRE-RATED BARRIER MUST BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL AND STATE LAWS AND THE AUTHORITY HAVING JURISDICTION.
7. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED TRADESMEN WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
8. CONDUITS SHALL BE RUN BEHIND FINISHED SURFACES WHERE POSSIBLE UNLESS OTHERWISE NOTED.
9. THE TELECOMMUNICATION PLANS ARE DIAGRAMMATIC ONLY. COORDINATE TECHNOLOGY EQUIPMENT LOCATION AND INSTALLATION WITH EQUIPMENT BEING SERVED.
10. CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO COMPLETION OF CONSTRUCTION TO ALLOW SUFFICIENT TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
11. THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, INDICATED AND/OR SPECIFIED.
12. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT AND SPACE CONDITIONS ON WHICH WORK IS ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT EQUIPMENT INSTALLATION IN THE MANNER SPECIFIED TEN DAYS PRIOR TO SUBMISSION OF BIDS.
13. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED.
14. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
15. ALL SLAB PENETRATIONS MUST BE X-RAYED AND DOCUMENTED PRIOR TO INSTALLATION.
16. THE EXACT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL SYSTEMS. PROVIDE ALL WIRES AND CABLES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLAN OR NOT.
17. WHEREVER CONDUITS PENETRATE WALLS OR FLOORS, SPACE REMAINING IN SUCH PENETRATIONS SHALL BE FILLED. FILLING MATERIAL SHALL BE FIRE RESISTIVE WITH RATING EQUAL TO THE RATING OF THE FLOOR OR WALL ITSELF.
18. PROVIDE AND LEAVE ACCESSIBLE PULL STRINGS IN ALL CONDUITS, RACEWAYS, SLEEVES AND CHASES TO LOW VOLTAGE WIRING TO BE INSTALLED.
19. OUTLET BOXES INSTALLED ON OPPOSITE SIDES OF THE SAME PARTITION SHALL BE STAGGERED. DO NOT MOUNT OUTLET BOXES BACK TO BACK.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CUT SHEETS, CALCULATIONS AND EQUIPMENT LITERATURE FOR ALL EQUIPMENT BEING PROVIDED AS PART OF THIS SCOPE OF WORK. THE EXACT DEVICE OR PIECE OF EQUIPMENT TO BE INSTALLED MUST BE CLEARLY CALLED OUT FOR THE DESIGN TEAM TO REVIEW. SUBMITTALS WITHOUT THE REQUESTED INFORMATION WILL BE REJECTED.
21. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DRAWINGS IN HARDCOPY AND ELECTRONIC FORMAT FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO JOB COMPLETION.
22. CONTRACTOR SHALL PROVIDE A COMPLETE PUNCH LIST OF ALL INSTALLED SYSTEMS TO THE CONSTRUCTION MANAGER WHEN THE INSTALLED WORK IS READY TO BE EXAMINED BY THE DESIGN TEAM. INCOMPLETE SYSTEMS SHALL NOT BE REVIEWED UNTIL IT IS DETERMINED THAT THE SYSTEMS ARE APPROXIMATELY COMPLETE.

T2 GENERAL NOTES
NOT TO SCALE

1. DEMOLITION
   - 1.1. EXISTING PATHWAYS WITHOUT PROPER EQUIPMENT SHALL BE ABANDONED.
   - 1.2. EXISTING CABLING NOT MEETING CATEGORY 6 STANDARDS SHALL BE COMPLETELY REMOVED.
   - 1.3. EXISTING CATV CABLING SHALL BE COMPLETELY REMOVED.
2. PATHWAYS
   - 2.7. ELECTRICAL CONTRACTOR SHALL PROVIDE PATHWAYS FOR LOW VOLTAGE SYSTEMS. ALL PATHWAY SYSTEMS SHALL BE BONDED TO THE BUILDING ELECTRICAL GROUND SYSTEM.
   - 2.8. PATHWAYS SHALL CONSIST OF 4" CONDUITS, 2" CONDUIT SLEEVES, CONDUIT ASSEMBLIES FOR OUTLETS AND LOW VOLTAGE DEVICES, LADDER RACK, JUNCTION BOXES, SPECIALTY BOXES, FLOOR BOXES AND OTHER ASSOCIATED COMPONENTS FOR LOW VOLTAGE PATHWAY SYSTEMS.
   - 2.9. PATHWAYS SHALL BE BEHIND FINISHED SURFACES UNLESS OTHER WISE NOTED.
   - 2.10. CONDUITS SHALL BE CONTINUOUS IF NOT ABOVE ACCESSIBLE CEILINGS.
   - 2.11. CONDUIT SLEEVES SHALL BE ABOVE CEILINGS IN ALL CASES SO CABLING IS NOT VISIBLE.
   - 2.12. EXISTING PATHWAYS CAN BE REUSED WHERE APPROPRIATE. PATHWAYS MUST CONSIST OF JUNCTION BOXES, CONDUITS AND J-HOOKS FOR REUSE.
3. NETWORK ELECTRONICS
   - 3.1. DATA SWITCHES, FILE SERVERS AND VOIP ELECTRONICS ARE NOT PART OF THESE DOCUMENTS. ANY ITEMS SHOWN ARE FOR REFERENCE ONLY.
   - 3.2. THE OWNER OR OWNER'S THIRD PARTY REPRESENTATION WILL PROVIDE AND INSTALL THESE ITEMS.
4. DATA INFRASTRUCTURE
   - 4.1. PROVIDE A COMPLETE DATA INFRASTRUCTURE SYSTEM INCLUDING BACKBONE CABLES, HORIZONTAL CABLES, PATCH PANELS, FIBER JUMPERS, CABLE MANAGERS, FACEPLATES, JACKS AND ASSOCIATED INFRASTRUCTURE COMPONENTS FOR COMPLETE STRUCTURED CABLING SYSTEMS.
   - 4.2. EXISTING DATA CABLES CAN BE REUSED IF CATEGORY 6 OR GREATER. CABLES NOT MEETING CATEGORY 6 PERFORMANCE SHALL BE REMOVED.
5. AV SYSTEMS
   - 5.1. MAINTAIN THE EXISTING AV SYSTEM IN THE MEETING ROOM.
6. COORDINATE EACH SYSTEM WITH ASSOCIATED TRADES DURING INSTALLATION.
7. COORDINATE INSTALLATION WITH OWNER PROVIDED AND THIRD-PARTY PROVIDED ELECTRONICS, EQUIPMENT AND SYSTEMS.

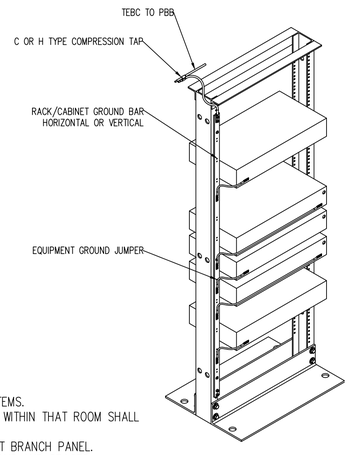
T3 SCOPE NOTES
NOT TO SCALE





ITEM NO.	DESCRIPTION	QTY.
1	COPPER BUSBAR	1
2	NON CONDUCTIVE ISOLATION BUSHING	2
3	3/6-16" STAINLESS STEEL HEX BOLTS	4
4	3/8" S.S. LOCK WASHERS (NOT SHOWN)	4

CATALOG NO.	FINISH	DESCRIPTION	BUSBAR PATTERN	"N" QTY
HBBB14216G	BARE COPPER	4"X16"X.25" BUSBAR	"G"	N/A
HBBB1416H	BARE COPPER	4"X16"X.25" BUSBAR	"H"	N/A
HBBB14420J	BARE COPPER	4"X20"X.25" BUSBAR	"J"	N/A
HBBB14216GTP	TIN PLATED	4"X16"X.25" BUSBAR	"G"	N/A
HBBB1416HTP	TIN PLATED	4"X16"X.25" BUSBAR	"H"	N/A
HBBB14420JTP	TIN PLATED	4"X20"X.25" BUSBAR	"J"	N/A
HGRKTMGB16H	BARE COPPER	4"X16"X.25" BUSBAR	"H"	1



TECHNOLOGY BONDING AND GROUNDING NOTES:

1. BONDING AND GROUNDING SYSTEM SHALL BE PROVIDED FOR LOW VOLTAGE SYSTEMS.
2. A TEBC SHALL BE PROVIDED IN EACH TELECOMMUNCATIONS ROOM. EQUIPMENT WITHIN THAT ROOM SHALL BE BONDED TO THE TEBC. THE TEBC SHALL BE BONDED TO THE PBB.
3. THE PBB SHALL BE BONDED TO BUILDING STRUCTURAL STEEL AND THE NEAREST BRANCH PANEL.
4. BONDING AND GROUNDING SYSTEM SHALL FOLLOW TELECOMMUNICATIONS PATHWAYS AND SPACES.
5. BONDING AND GROUNDING SYSTEM SHALL BE BONDED TO BUILDING ELECTRICAL GROUND.
6. BONDING AND GROUNDING SYSTEM WIRE SHALL BE SIZED APPROPRIATELY FOR DISTANCE AND LOAD.
7. BONDING AND GROUNDING SYSTEM SHALL COMPLY WITH THE LATEST EDITION OF THE BICSI TDMM.
8. BONDING AND GROUNDING SYSTEM SHALL COMPLY WITH THE LATEST EDITION OF THE NEC.

T4 TELECOM BONDING AND GROUNDING
NOT TO SCALE

T5 SHEET LIST
NOT TO SCALE

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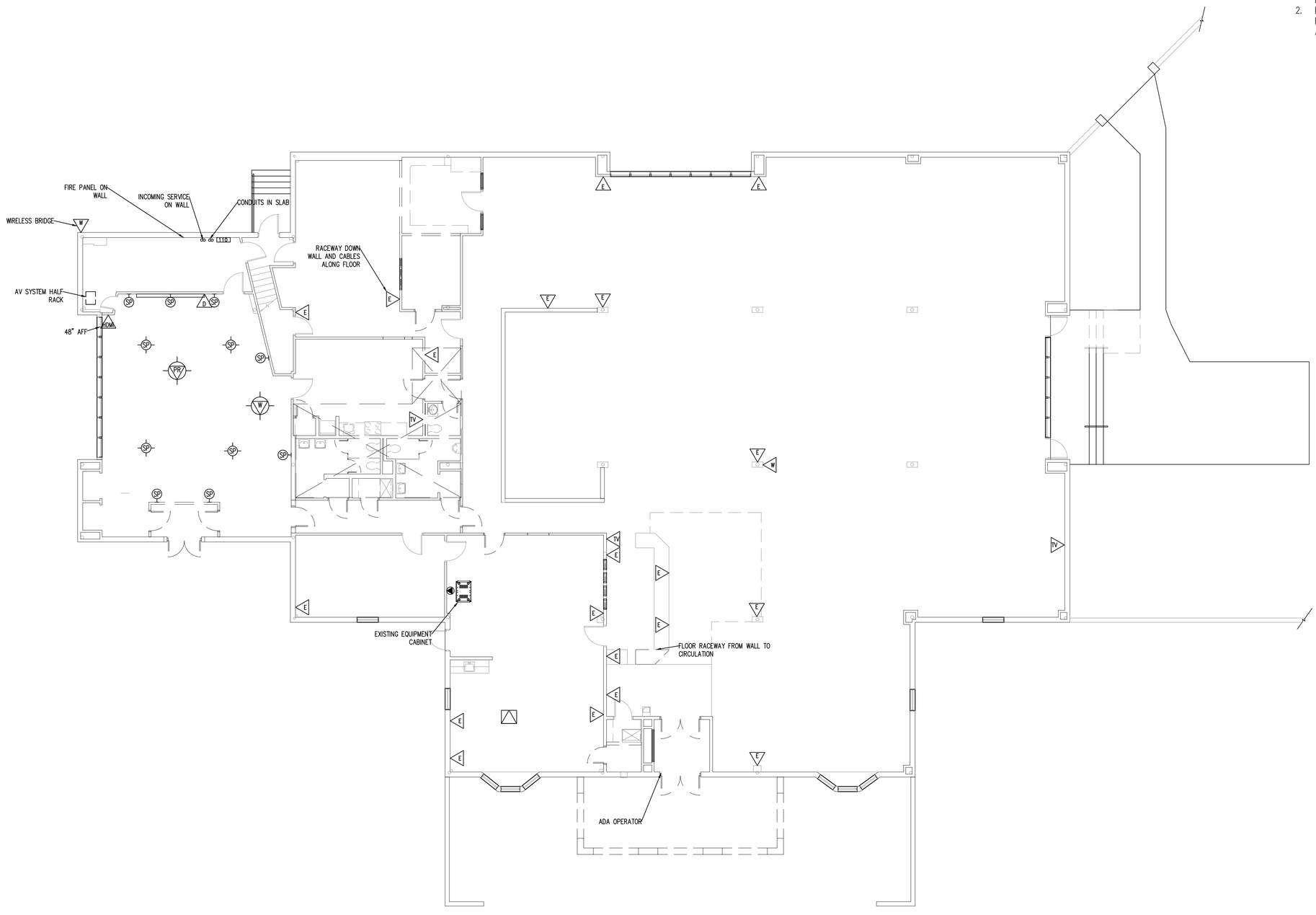
COMMENTS | DATE

Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By:
Proj.No.: 0085B054.A01

TECHNOLOGY SYMBOLS & NOTES

Dwg.No.: **T-000**

NOTES
1. EXISTING EQUIPMENT SHOWN FOR INFORMATIONAL PURPOSES ONLY AND MAY DIFFER FROM EXACT EQUIPMENT LISTED.
2. EXISTING AV SYSTEM IN THE MEETING ROOM SHALL REMAIN. ADJUST EQUIPMENT AS NEEDED DUE TO ARCHITECTURAL CHANGES.



T1 TECHNOLOGY FIRST FLOOR PLAN – EXISTING
1/8" = 1'

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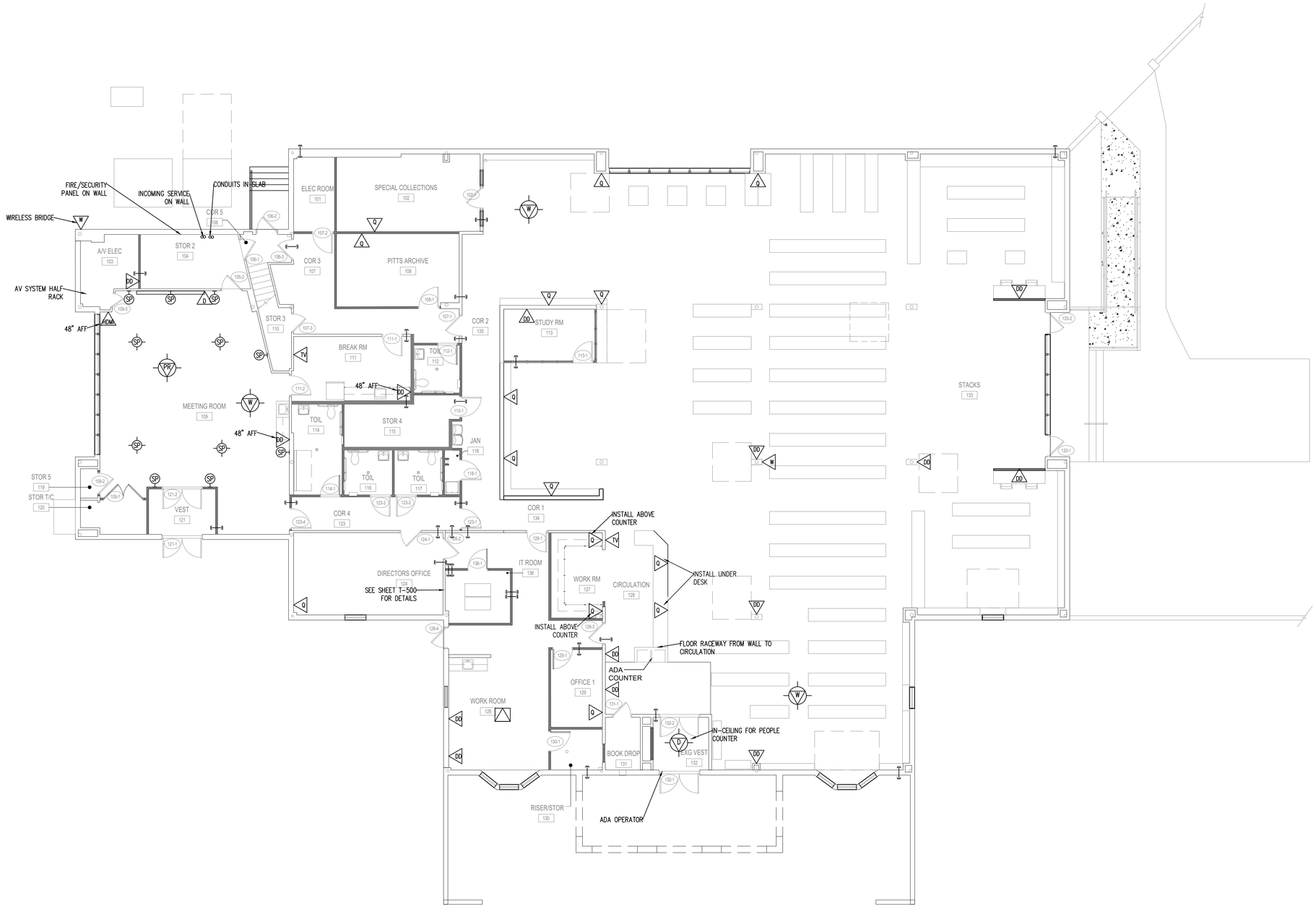
TECHNOLOGY FIRST FLOOR PLAN - EXISTING

Dwg.No.:
T-101E



T1 TECHNOLOGY FIRST FLOOR PLAN
1/8" = 1'

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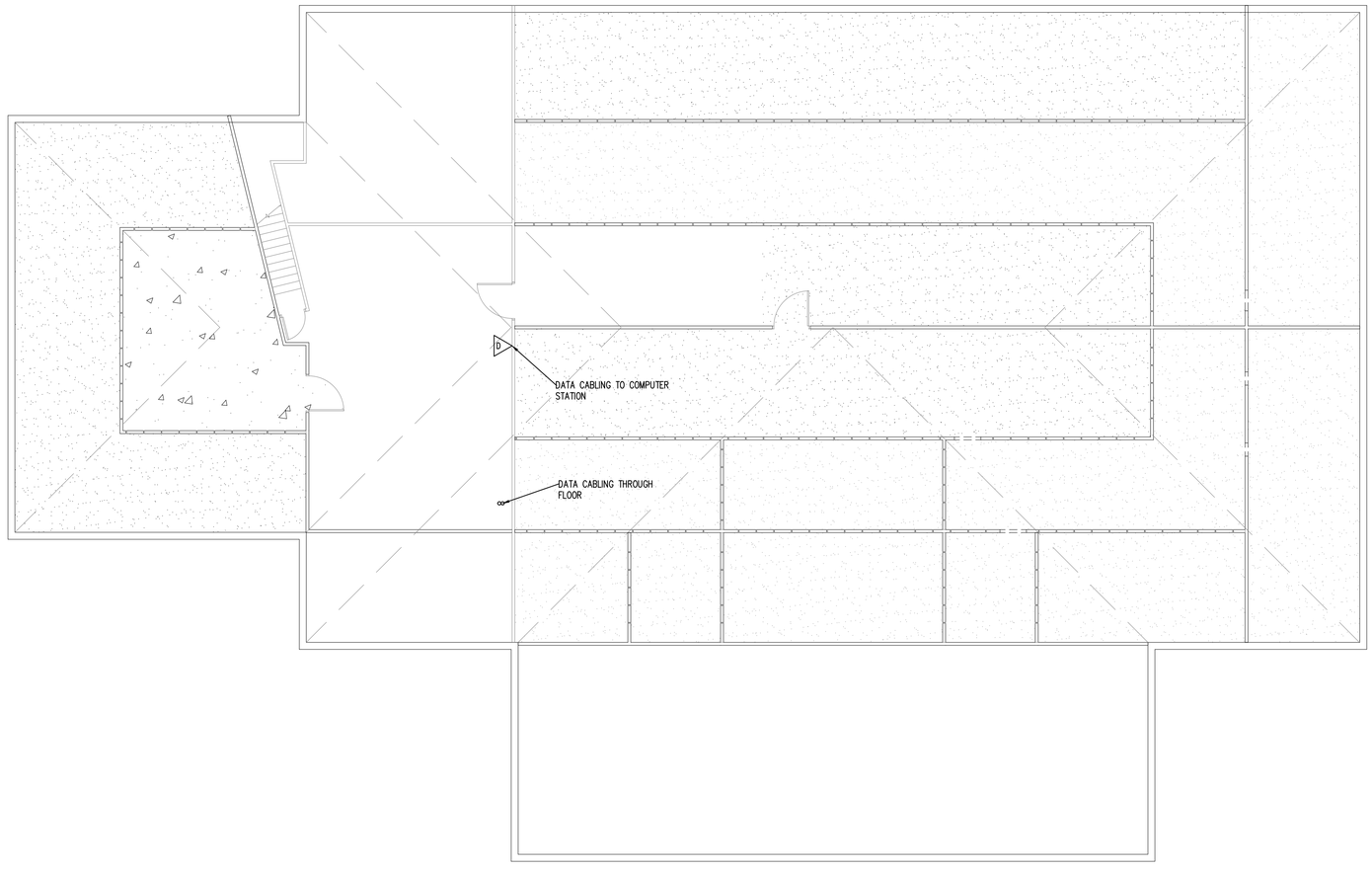
TECHNOLOGY FIRST FLOOR PLAN

Dwg.No.: **T-101**

NOTES
1. EXISTING EQUIPMENT SHOWN FOR INFORMATIONAL PURPOSES ONLY AND MAY DIFFER FROM EXACT EQUIPMENT LISTED.



T1 TECHNOLOGY ATTIC PLAN – EXISTING
1/8" = 1'

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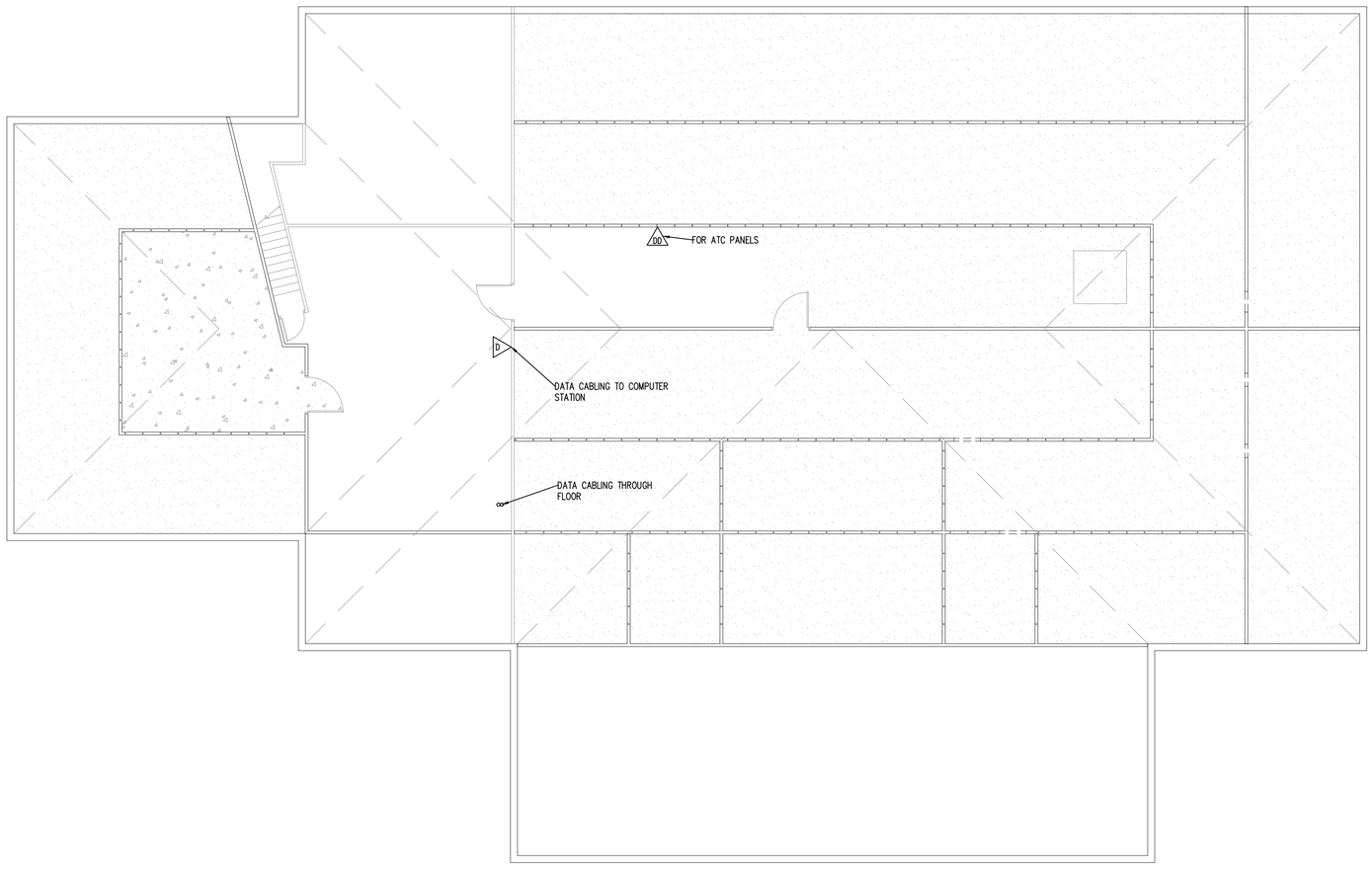
TECHNOLOGY ATTIC PLAN - EXISTING

Dwg.No.:
T-102E



T1 TECHNOLOGY ATTIC PLAN
1/8" = 1'

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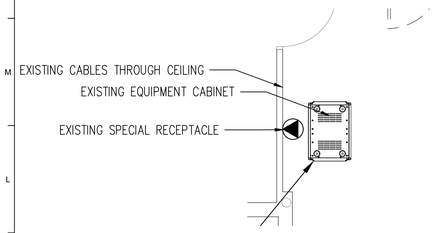
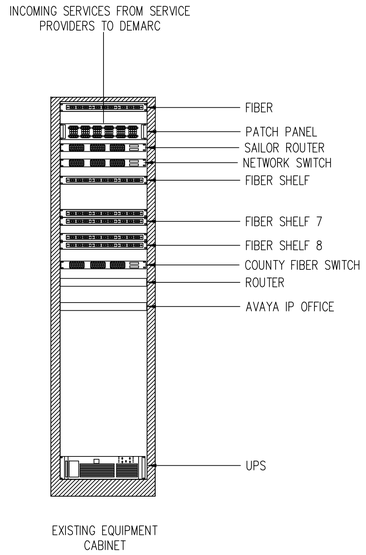
TECHNOLOGY ATTIC PLAN

Dwg.No.:
T-102



T1 IT EQUIPMENT ROOM
1/4" = 1'-0"



T2 IT EQUIPMENT RACKS
NOT TO SCALE

NOTES
1. EQUIPMENT SHOWN FOR INFORMATIONAL PURPOSES ONLY AND MAY DIFFER FROM EXACT EQUIPMENT LISTED.
2. FIBER CABINET FEEDS OUT TO OTHER FACILITIES.

T3 TECHNOLOGY NOTES
NOT TO SCALE

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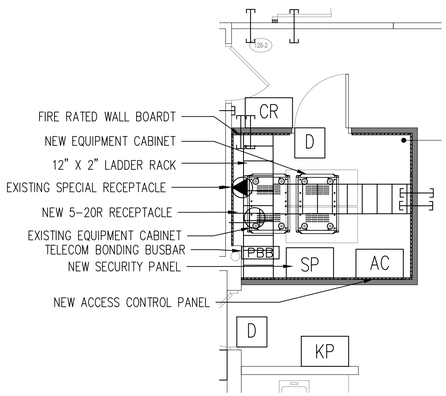
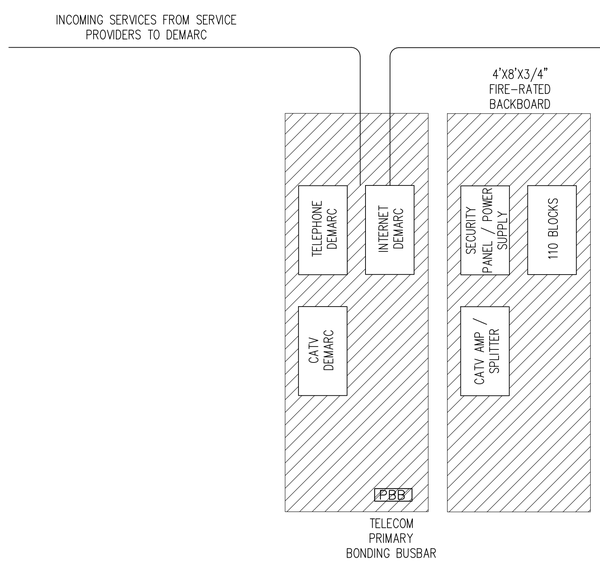
TELECOM EQUIPMENT - EXISTING

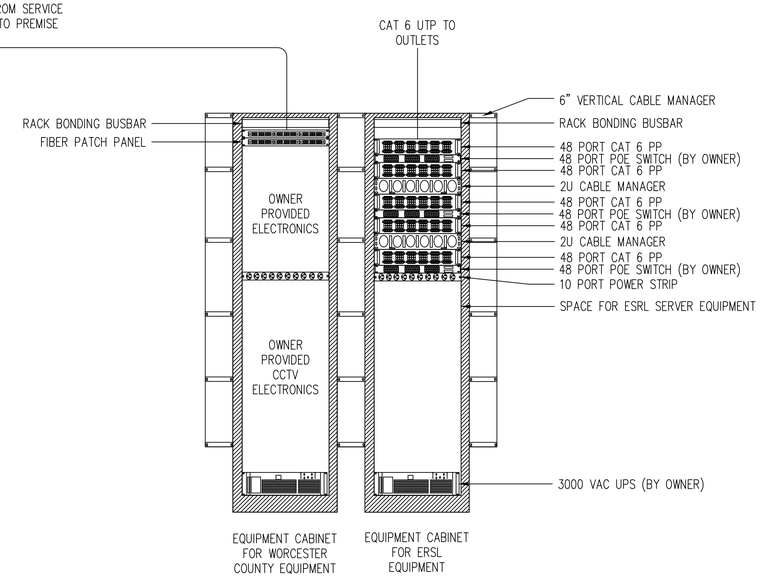
Dwg.No.:
T-500E



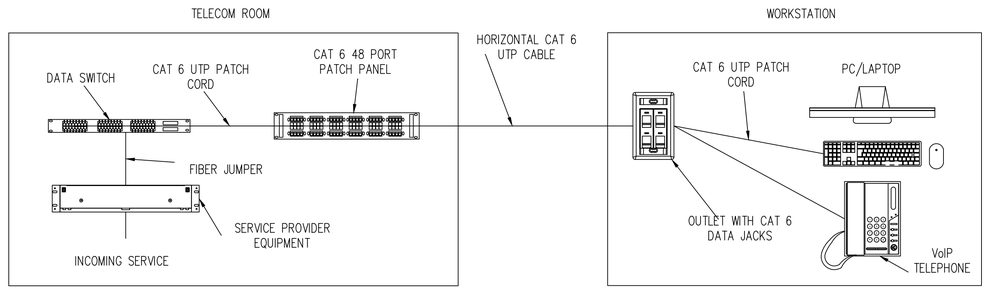
T1 IT EQUIPMENT ROOM
1/4" = 1'-0"



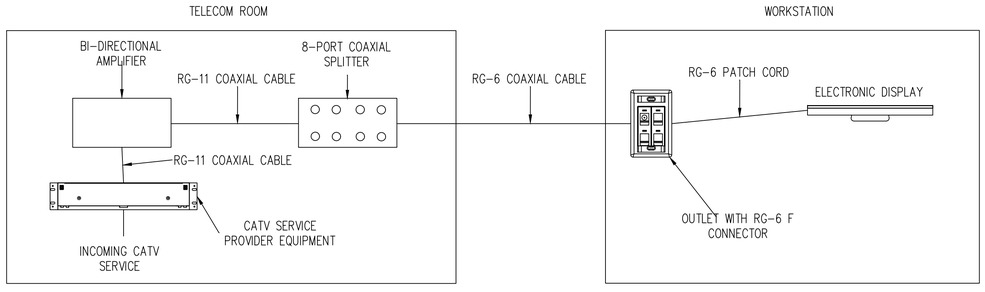
T2 TYPICAL IT EQUIPMENT ROOM WALL BOARD
NOT TO SCALE



T3 IT EQUIPMENT RACKS
NOT TO SCALE



T5 DATA CONNECTION DIAGRAM
NOT TO SCALE



T6 COAXIAL CONNECTION DIAGRAM
NOT TO SCALE

NOTES
1. PROVIDE AND INSTALL ALL EQUIPMENT AS SHOWN ON THIS DRAWING. SEE DIVISION 27 SERIES SPECIFICATIONS FOR EQUIPMENT DETAILS.
2. COORDINATE POWER RECEPTACLES WITH RACK AND CABINET LOCATIONS.
3. ANALOG STRUCTURED CABLES SHALL BE TERMINATED ON WALL MOUNTED 110 BLOCKS.
4. INSTALLATION MUST BE COORDINATED WITH OWNER TECHNOLOGY STAFF PRIOR TO PERFORMING ANY WORK. PROVIDE PROPOSED ROOM AND RACK LAYOUTS TO THE DESIGN TEAM AND OWNER TECHNOLOGY STAFF FOR REVIEW.
5. RACKS SHALL BE SECURELY MOUNTED TO STRUCTURE AND SHALL BE RATED FOR THE ANTICIPATED EQUIPMENT LOAD.
6. THE PRIMARY BONDING BUSBAR (PBB) SHALL BE PROPERLY BONDED TO THE ELECTRICAL GROUNDING SYSTEM IN PLACE WITHIN THE FACILITY. A MINIMUM 6 AWG CONNECTION SHALL BE UTILIZED AND SHALL BE INCREASE IN SIZE WHERE REQUIRED DUE TO LENGTH.
7. ALL LOW VOLTAGE CABLES SHALL BE TERMINATED IN APPROPRIATE TERMINATION FIELDS AND PROPERLY LABELED. COORDINATE LABELING SCHEME WITH WORCESTER COUNTY TECHNOLOGY STAFF PRIOR TO INSTALLATION.
8. PROVIDE AND INSTALL A PATCH CORD FOR BOTH ENDS OF STRUCTURED CABLES. WORKSTATION PATCH CABLES SHALL BE COORDINATED WITH OWNER. PATCH PANEL PORT PATCH CABLES SHALL BE 2' CORDS AND ALSO COORDINATED WITH THE OWNER DURING CONSTRUCTION.
9. PROVIDE AND INSTALL DUPLEX FIBER PATCH CORDS. COORDINATE LENGTHS WITH OWNER DURING CONSTRUCTION.
10. CAT 6 DATA CABLES SHALL BE BLUE.
11. FIBER TERMINATIONS SHALL BE SC STYLE CONNECTORS.
12. LADDER RACK SHALL BE FIXED TO STRUCTURE AND FLOOR MOUNTED EQUIPMENT RACKS AND CABINETS. LADDER RACK SHALL BE LOCATED ABOVE RACKS AND WATERFALL EQUIPMENT SHALL BE UTILIZED TO TRANSITION CABLES FROM LADDER RACK TO EQUIPMENT RACKS AND CABINETS.
13. CATV RG-6 COAXIAL CABLES SHALL BE HOMERUN FROM THE LOCATIONS SHOWN ON THE FLOORPLAN DRAWINGS TO THE MAIN TELECOM ROOM AND TERMINATED ON TAPS / SPLITTERS LOCATED ON WALLBOARD. PROVIDE F-CONNECTORS ON ALL CABLE ENDS AND CONNECT TO BI-DIRECTIONAL AMPLIFIERS AND SERVICE PROVIDER EQUIPMENT.
14. COORDINATE EXACT LOCATIONS OF RACKS WITH ELECTRICAL POWER OUTLETS TO MINIMIZE CORDAGE.
15. RACK AND CABINET CLEARANCES MUST BE MAINTAINED FOR INSTALLATION AND SERVICE OF EQUIPMENT.
16. INCOMING SLEEVES AND CHASES MUST PROTRUDE 2" BEYOND FLOORS AND WALLS.
17. THE MAIN TELECOM ROOM SHALL BE THE POINT OF DEMARCATION FOR INCOMING SERVICES. ALLOW WALL SPACE FOR SERVICE PROVIDERS TO TERMINATE INCOMING SERVICE.
18. INCOMING SERVICES SHALL TERMINATE ADJACENT TO ASSOCIATED RACKS AND CABINETS FOR EACH SYSTEM IN ORDER TO MINIMIZE THE LENGTH OF PATCH CABLES AND JUMPERS.
19. ALL HORIZONTAL CABLES SHALL HAVE 10' OF CABLE SLACK AT THE TELECOM ROOM AND 3' AT THE WORK AREA ENDS. CABLES SHALL BE NEATLY COILED AND DRESSED.
20. VELCRO STRAPS MUST BE USED TO LOOSELY BUNDLE CABLES. WIRE TIES ARE NOT ACCEPTABLE.

T4 TECHNOLOGY NOTES
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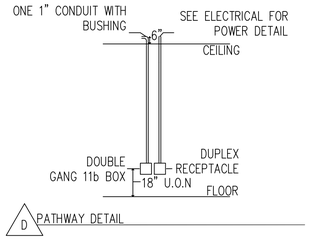
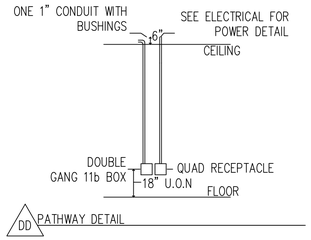
EQUIPMENT ROOM DETAILS

Dwg.No.: T-500



D PATHWAY DETAIL



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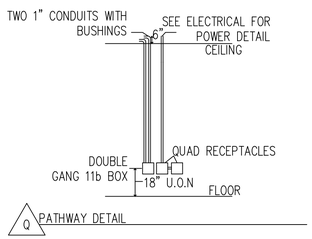

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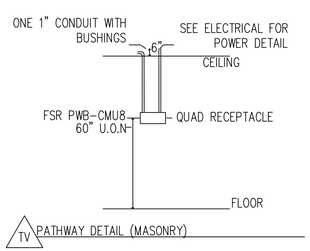
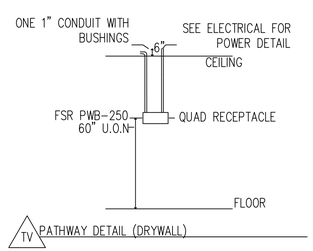
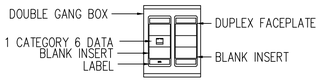


TV PATHWAY DETAIL (MASONRY)



TV PATHWAY DETAIL (DRYWALL)



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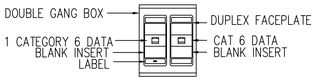

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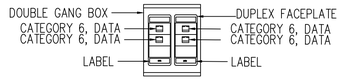
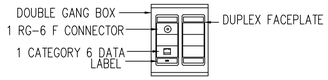


Q Q FACEPLATE



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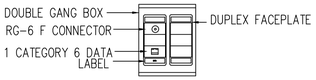

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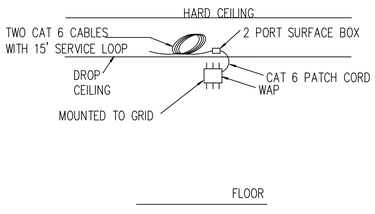

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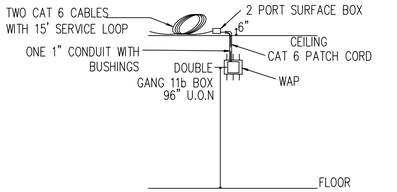
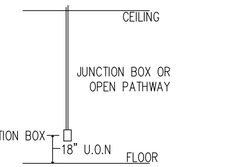


W PATHWAY DETAIL (WALL-MOUNTED)



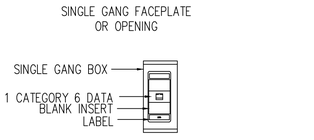
E PATHWAY DETAIL

W TYPE DROPS SHALL HAVE 2 CAT 6 CABLES WITH A TWO PORT SURFACE BOX ABOVE THE DROP CEILING AND 15' SERVICE LOOPS. CEILING GRID SHALL BE TAGGED IN THE LOCATION OF THE GANG BOX WITH A METAL TAG.

W FACEPLATE DETAIL (CEILING-MOUNTED)

W TYPE DROPS SHALL HAVE 2 CAT 6 CABLES WITH A TWO PORT SURFACE BOX ABOVE THE NEAREST ACCESSIBLE DROP CEILING AND 15' SERVICE LOOPS AT THAT LOCATION.

W FACEPLATE DETAIL (WALL-MOUNTED)



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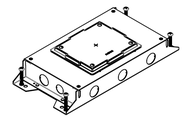

WIREMOLD RFBA4-OG FLOOR BOX

T1 TECHNOLOGY OUTLETS AND FACEPLATES
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PATHWAYS AND FACEPLATES

Dwg.No.: **T-501**

TY1 SYMBOLS
NOT TO SCALE

D	INTRUSION DETECTION DOOR CONTACT
W	WIDE ANGLE MOTION DETECTOR
LA	LOCAL ALARM
GB	GLASS BREAK DETECTOR
PB	PANIC BUTTON (INSTALL UNDER DESK SURFACE)
LB	LOCKDOWN BUTTON (INSTALL UNDER DESK SURFACE)
KP	INTRUSION DETECTION KEYPAD
SP	INTRUSION DETECTION PANEL
CR	ACCESS CONTROL CARD READER
AC	ACCESS DOOR CONTROLLER
(camera symbol)	CCTV SECURITY CAMERA

NOTE: PATHWAY ONLY FOR SECURITY DEVICES

TY2 GENERAL NOTES
NOT TO SCALE

1. ALL ELECTRICAL SYSTEMS, EQUIPMENT, RACEWAYS, CABLING, BOXES, FIRESEALS, GROUNDING AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NEC GUIDELINES.
2. ALL LOW VOLTAGE CABLING MUST BE INSTALLED ACCORDING TO BICSI GUIDELINES.
3. ALL CABLING SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/TIA STANDARDS.
4. ALL CABLING SHALL BE APPROPRIATELY LABELED. SEE TY SERIES DRAWINGS FOR EXACT REQUIREMENTS.
5. CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT PRIOR TO ITS APPROVAL BY THE ARCHITECT AND ENGINEER. CONTRACTOR WILL BE LIABLE FOR ITS REMOVAL IN ANY SUCH CASE.
6. ANY PENETRATION OF A FIRE-RATED BARRIER MUST BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL AND STATE LAWS AND THE AUTHORITY HAVING JURISDICTION.
7. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED TRADESMEN WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
8. CONDUITS SHALL BE RUN BEHIND FINISHED SURFACES WHERE POSSIBLE UNLESS OTHERWISE NOTED.
9. THE PLANS ARE DIAGRAMMATIC ONLY. COORDINATE EQUIPMENT LOCATION AND INSTALLATION WITH EQUIPMENT BEING SERVED.
10. CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO COMPLETION OF CONSTRUCTION TO ALLOW SUFFICIENT TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
11. THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, INDICATED AND/OR SPECIFIED.
12. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT AND SPACE CONDITIONS ON WHICH WORK IS ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT EQUIPMENT INSTALLATION IN THE MANNER SPECIFIED TEN DAYS PRIOR TO SUBMISSION OF BIDS.
13. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED.
14. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
15. ALL SLAB PENETRATIONS MUST BE X-RAYED AND DOCUMENTED PRIOR TO INSTALLATION.
16. THE EXACT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL SYSTEMS. PROVIDE ALL WIRES AND CABLES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLAN OR NOT.
17. WHEREVER CONDUITS PENETRATE WALLS OR FLOORS, SPACE REMAINING IN SUCH PENETRATIONS SHALL BE FILLED. FILLING MATERIAL SHALL BE FIRE RESISTIVE WITH RATING EQUAL TO THE RATING OF THE FLOOR OR WALL ITSELF.
18. PROVIDE AND LEAVE ACCESSIBLE PULL STRINGS IN ALL CONDUITS, RACEWAYS, SLEEVES AND CHASES TO LOW VOLTAGE WIRING TO BE INSTALLED.
19. OUTLET BOXES INSTALLED ON OPPOSITE SIDES OF THE SAME PARTITION SHALL BE STAGGERED. DO NOT MOUNT OUTLET BOXES BACK TO BACK.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CUT SHEETS, CALCULATIONS AND EQUIPMENT LITERATURE FOR ALL EQUIPMENT BEING PROVIDED AS PART OF THIS SCOPE OF WORK. THE EXACT DEVICE OR PIECE OF EQUIPMENT TO BE INSTALLED MUST BE CLEARLY CALLED OUT FOR THE DESIGN TEAM TO REVIEW. SUBMITTALS WITHOUT THE REQUESTED INFORMATION WILL BE REJECTED.
21. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DRAWINGS IN HARDCOPY AND ELECTRONIC FORMAT FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO JOB COMPLETION.
22. CONTRACTOR SHALL PROVIDE A COMPLETE PUNCH LIST OF ALL INSTALLED SYSTEMS TO THE CONSTRUCTION MANAGER WHEN THE INSTALLED WORK IS READY TO BE EXAMINED BY THE DESIGN TEAM. INCOMPLETE SYSTEMS SHALL NOT BE REVIEWED UNTIL IT IS DETERMINED THAT THE SYSTEMS ARE APPROXIMATELY COMPLETE.

TY3 SCOPE NOTES
NOT TO SCALE

1. DEMOLITION
   - 1.1. EXISTING PATHWAYS WITHOUT PROPER EQUIPMENT SHALL BE ABANDONED.
   - 1.2. EXISTING CABLING NOT MEETING CATEGORY 6 STANDARDS SHALL BE COMPLETELY REMOVED.
   - 1.3. EXISTING COAXIAL CCTV CABLING SHALL BE COMPLETELY REMOVED.
2. SECURITY PATHWAYS
   - 2.1. PROVIDE AND INSTALL PATHWAYS FOR THIRD-PARTY / OWNER PROVIDED CABLING, ELECTRONICS AND EQUIPMENT.
   - 2.2. PATHWAYS SHALL INCLUDE CONDUITS, CONDUIT SLEEVES, JUNCTION BOXES, SPECIALTY BOXES AND ASSOCIATED MOUNTS.
   - 2.3. SYSTEMS SHALL INCLUDE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE.
   - 2.4. CONDUITS SHALL BE CONTINUOUS IF NOT ABOVE ACCESSIBLE CEILINGS.
   - 2.5. CONDUIT SLEEVES SHALL BE ABOVE CEILINGS IN ALL CASES SO CABLING IS NOT VISIBLE.
   - 2.6. EXISTING PATHWAYS CAN BE REUSED WHERE APPROPRIATE.
   - 2.7. PATHWAYS MUST CONSIST OF JUNCTION BOXES, CONDUITS AND J-HOOKS FOR REUSE.
3. EXISTING SECURITY DEVICES
   - 3.1. EXISTING INTRUSION DETECTION DEVICES SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT AND CABLING
   - 3.2. EXISTING CCTV CAMERAS AND CABLING SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT AND CABLING.
4. ACCESS CONTROL
   - 4.1. A NEW ACCESS CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED.
   - 4.2. PATHWAYS FOR THIS SYSTEM SHALL BE PROVIDED AS PART OF THIS SCOPE OF WORK.
   - 4.3. ACCESS CONTROL CABLING AND DEVICES SHALL BE PROVIDED BY THE OWNER'S THIRD PARTY VENDOR.
5. COORDINATE EACH SYSTEM WITH ASSOCIATED TRADES DURING INSTALLATION.
6. COORDINATE INSTALLATION WITH OWNER PROVIDED AND THIRD-PARTY PROVIDED ELECTROINCS, EQUIPMENT AND SYSTEMS.

TY4 SHEET LIST
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SECURITY SYMBOLS AND NOTES

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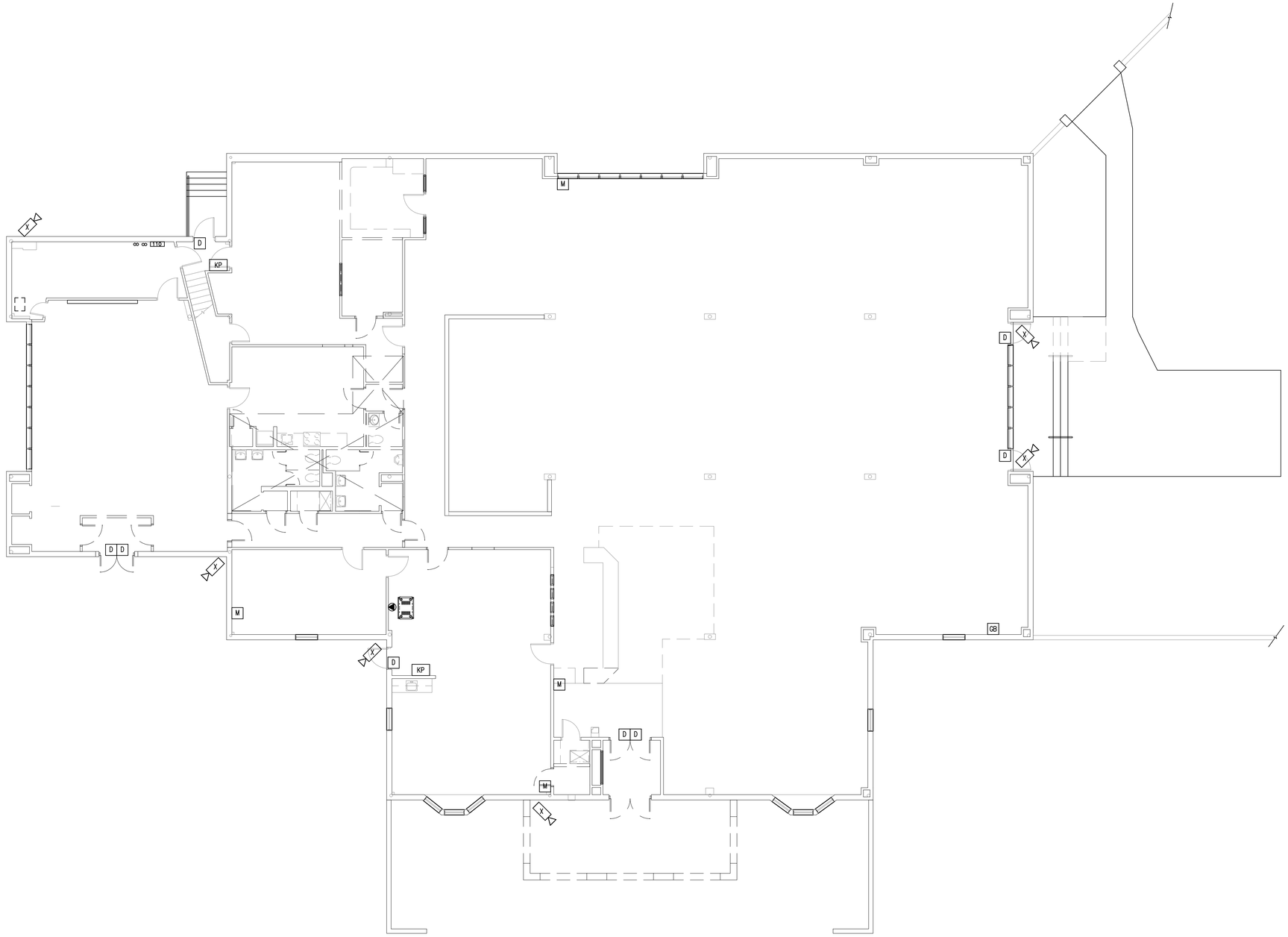

TY1 SECURITY FIRST FLOOR PLAN – EXISTING
1/8" = 1'

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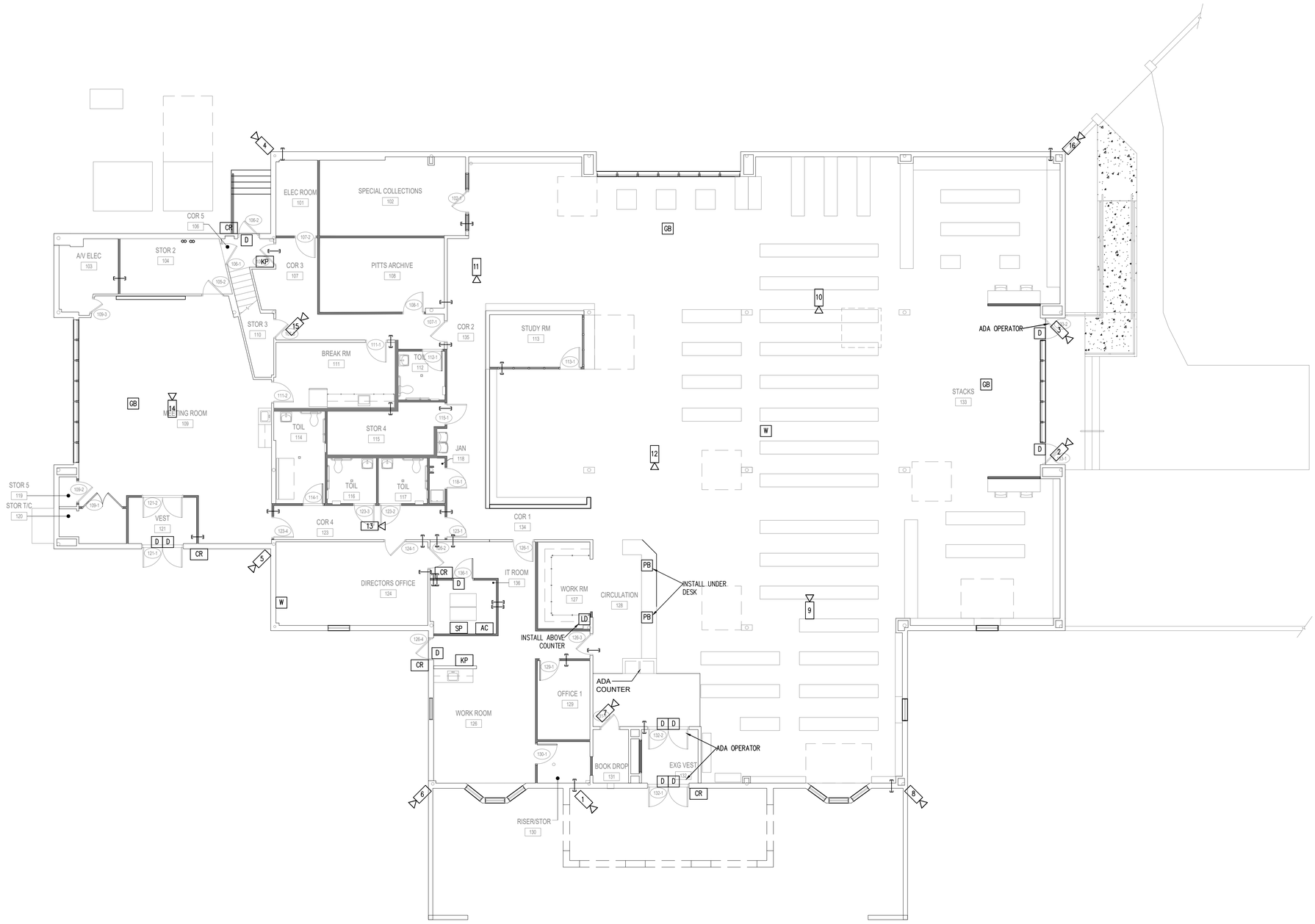
SECURITY FIRST FLOOR PLAN - EXISTING

Dwg.No.:
TY-101E



TY1 SECURITY FIRST FLOOR PLAN
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SECURITY FIRST FLOOR PLAN

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TY-101

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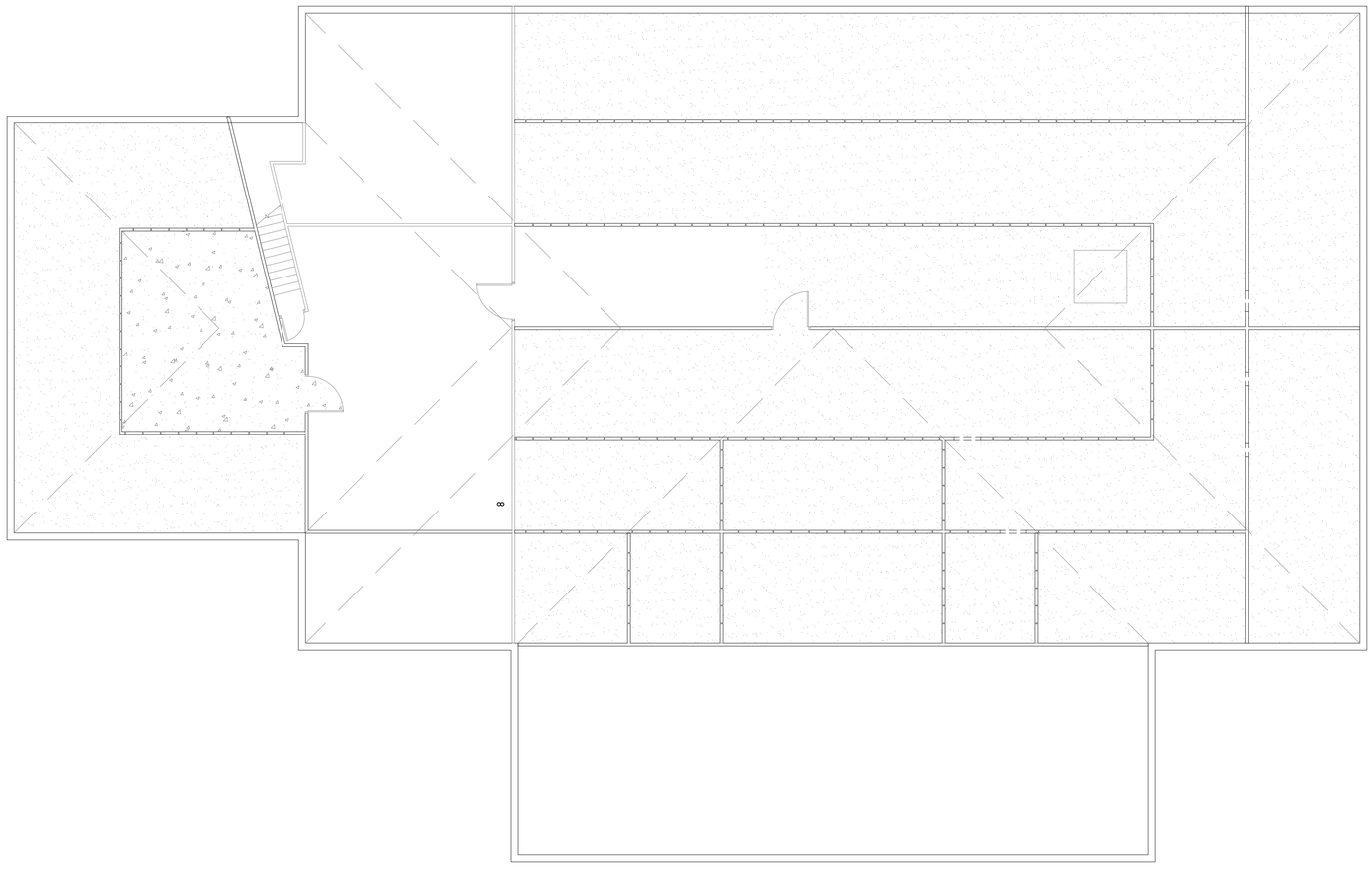

TY1 SECURITY ATTIC PLAN – EXISTING
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SECURITY ATTIC PLAN - EXISTING

Dwg.No.:
TY-102E

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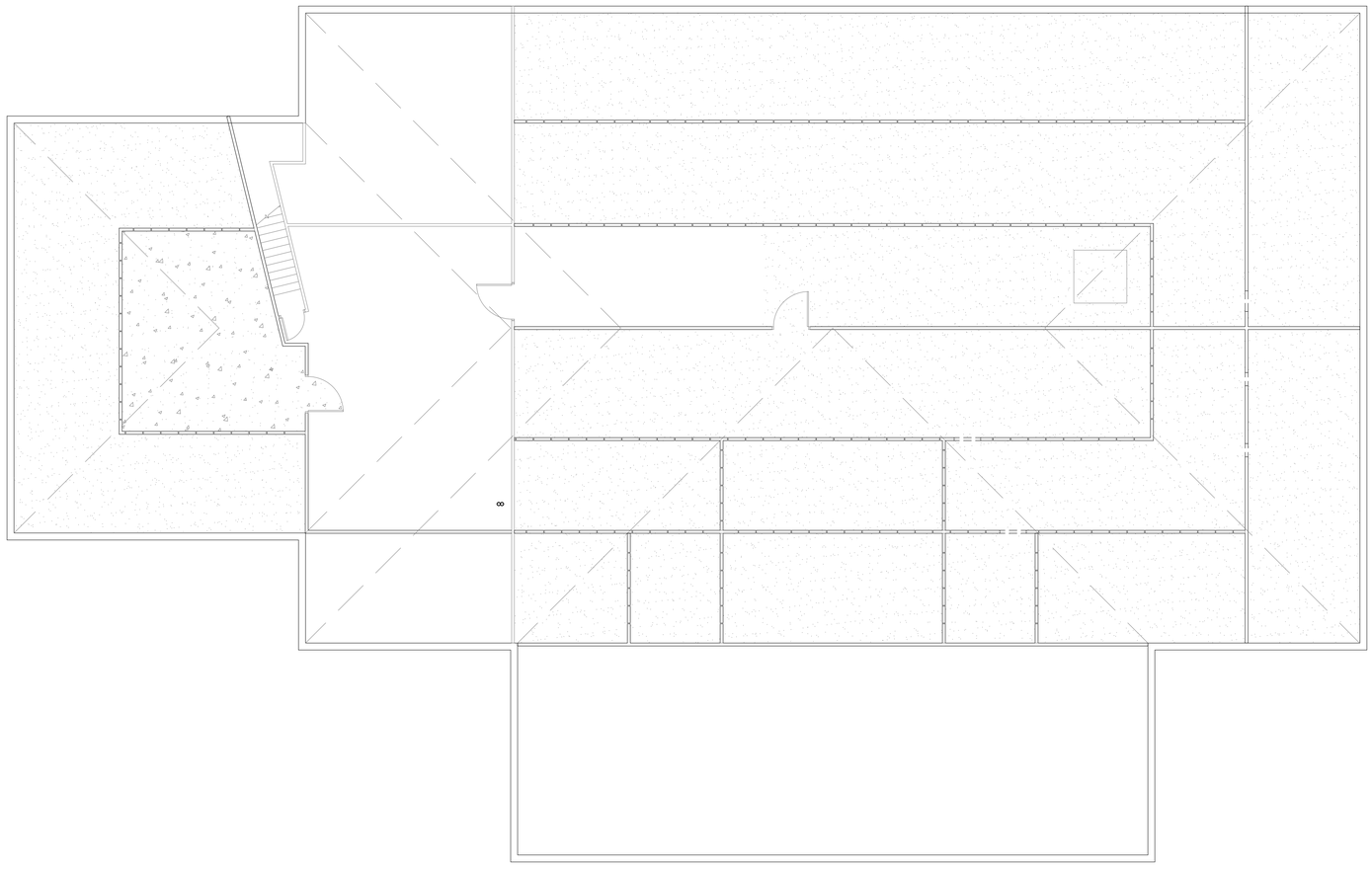

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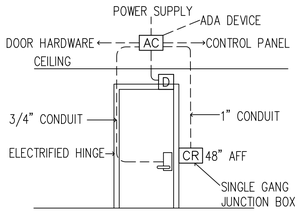
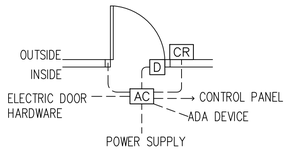
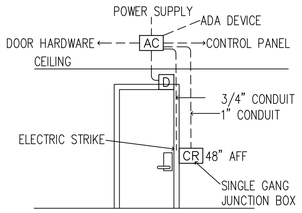
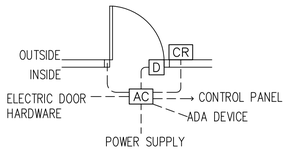
TYPICAL ELECTRIFIED HINGE SINGLE DOOR



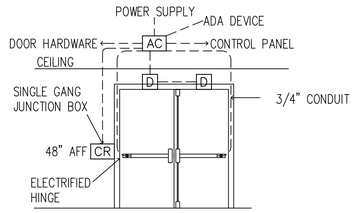


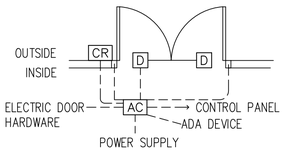
TYPICAL ELECTRIC STRIKE SINGLE DOOR



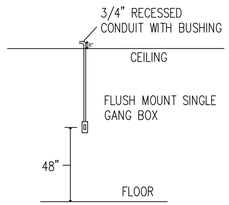


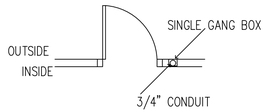
TYPICAL ELECTRIFIED HINGE DOUBLE DOOR



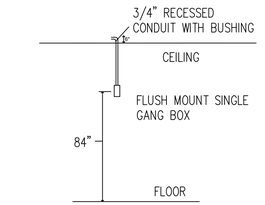


TYPICAL CARD READER

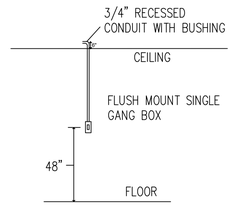




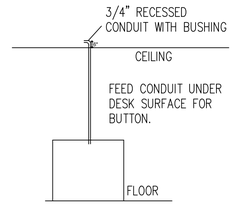
TYPICAL GLASS BREAK PATHWAY



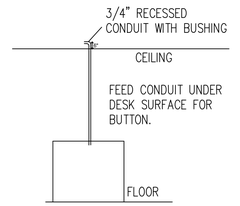
TYPICAL KEYPAD PATHWAY



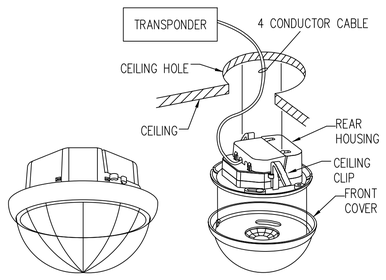
TYPICAL LOCKDOWN BUTTON PATHWAY



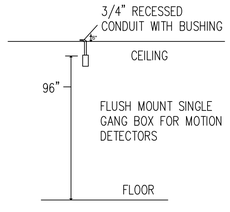
TYPICAL PANIC BUTTON PATHWAY



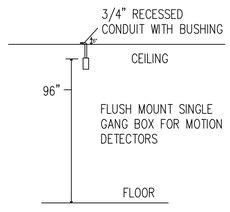
CEILING MOTION SENSOR



WIDE ANGLE MOTION SENSOR

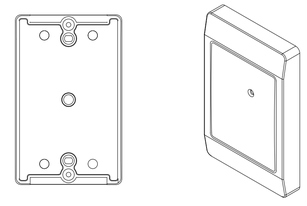


GLASSBREAK DETECTOR



RECESSED MAGNETIC DOOR CONTACT

CARD READER



UNIT MUST BE SECURELY MOUNTED TO RECESSED GANG BOX.

NOTE: ACTUAL DEVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACTUAL DEVICES MAY VARY

TY1 ACCESS & INTRUSION DETAILS
NOT TO SCALE

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional in the laws of the State of
License No. Expiration Date:

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EASTON, MARYLAND 410.770.4744

SNOW HILL LIBRARY RENOVATIONS

BID SET

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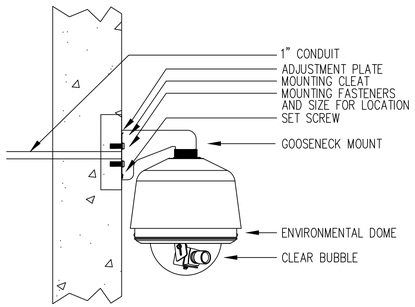
SNOW HILL, MARYLAND 21863

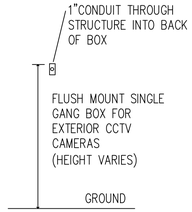
COMMENTS | DATE

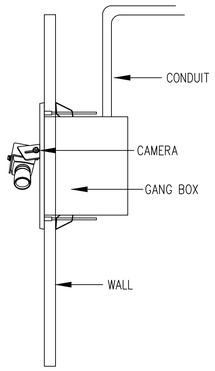
Date: JANUARY 23, 2026
Scale: AS NOTED
Dwn.By:
Proj.No.: 0085B054.A01

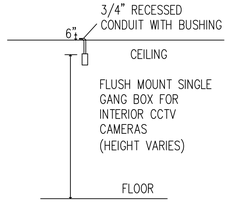
ACCESS AND INTRUSION PATHWAYS

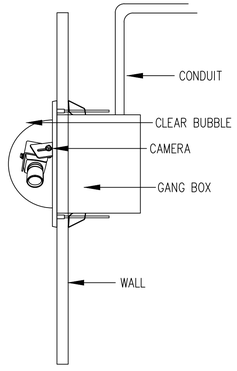
Dwg.No.: **TY-500**

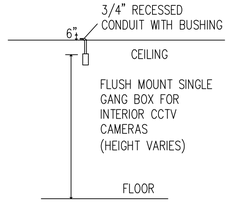


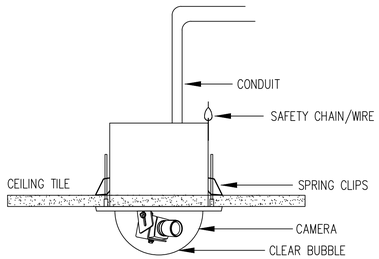


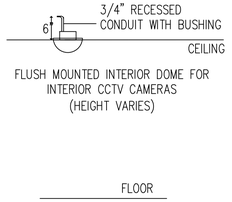


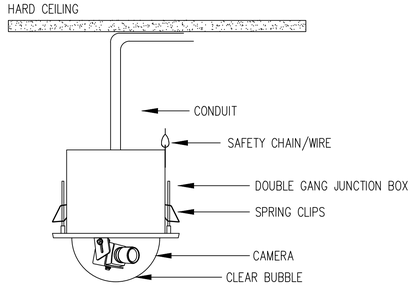


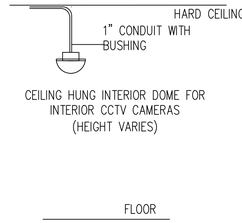












TY1 CCTV PATHWAYS

NOT TO SCALE

FLOOR	CAMERA #	MOUNT	TYPE	HEIGHT
1	1	WALL	PENDANT	10'
1	2	CEILING	DOME	CEILING
1	3	CEILING	DOME	CEILING
1	4	CORNER	PENDANT	10'
1	5	WALL	PENDANT	10'
1	6	CORNER	PENDANT	10'
1	7	CEILING	DOME	CEILING
1	8	CORNER	PENDANT	10'
1	9	CEILING	DOME	CEILING
1	10	CEILING	DOME	CEILING
1	11	CEILING	DOME	CEILING
1	12	CEILING	DOME	CEILING
1	13	CEILING	DOME	CEILING
1	14	CEILING	DOME	CEILING
1	15	CEILING	DOME	CEILING
1	16	CORNER	PENDANT	10'

TY2 CCTV CAMERA SCHEDULE

NOT TO SCALE

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CCTV PATHWAYS

Dwg.No.:

TY-501