

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF MILITARY AND VETERANS' AFFAIRS ANNVILLE, PENNSYLVANIA

JOSH SHAPIRO, GOVERNOR

MAJOR GENERAL MARK J. SHINDLER, THE ADJUTANT GENERAL

PROJECT NO.: 42190067
BLDG. RENOVATIONS
FORT MIFFLIN BUILDING #57
 PHILADELPHIA, PHILADELPHIA COUNTY, PENNSYLVANIA

DESIGN PROFESSIONALS:
 OFFICE OF FACILITIES AND ENGINEERING
 BUREAU OF DESIGN AND PROJECT MANAGEMENT
 BLDG. 0-10, CHAPEL ROAD, FT. INDIANTOWN GAP
 ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

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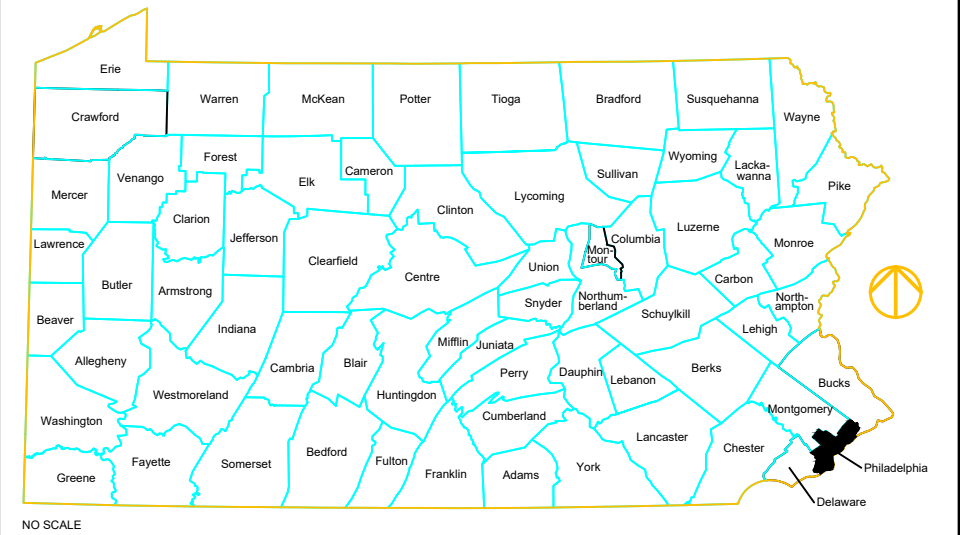
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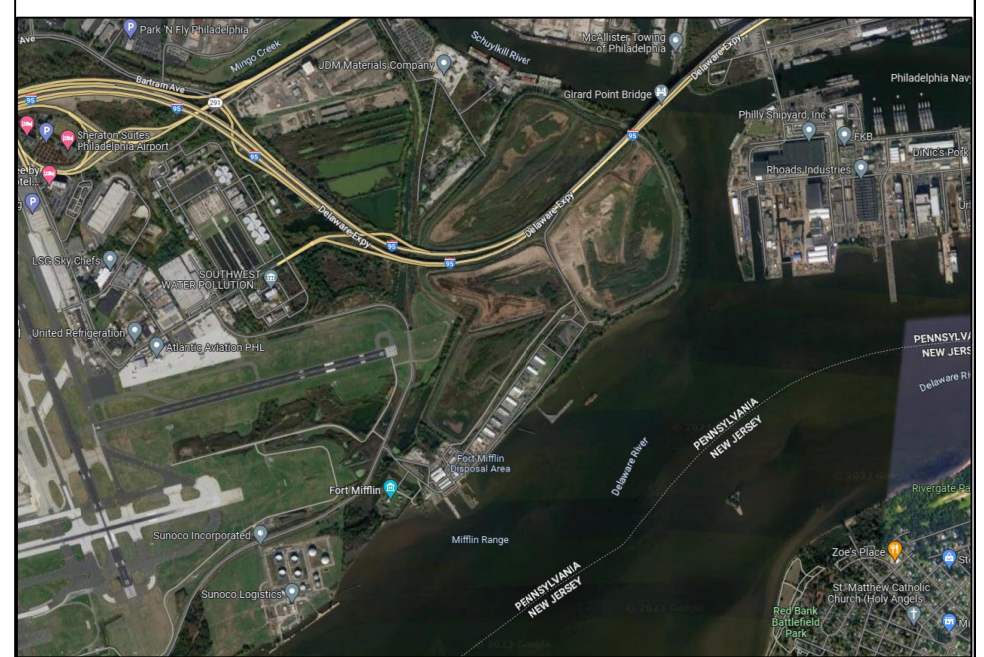
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CODE APPROVALS

PROJECT LOCATION MAP



VICINITY MAP



CAMPUS / KEY PLAN



| NO. | DESCRIPTION | DATE |
|-----------|-------------|------|
| REVISIONS | | |
| | | |
| | | |
| | | |
| | | |

Drawings Listed In Index:
 BEA Electronic Approval DATE _____

Professional's Signature _____ Date _____ Professional's Signature _____ Date _____

COMMONWEALTH OF PENNSYLVANIA
 DEPT. OF MILITARY & VETERANS' AFFAIRS
 ANNVILLE, PENNSYLVANIA 17003

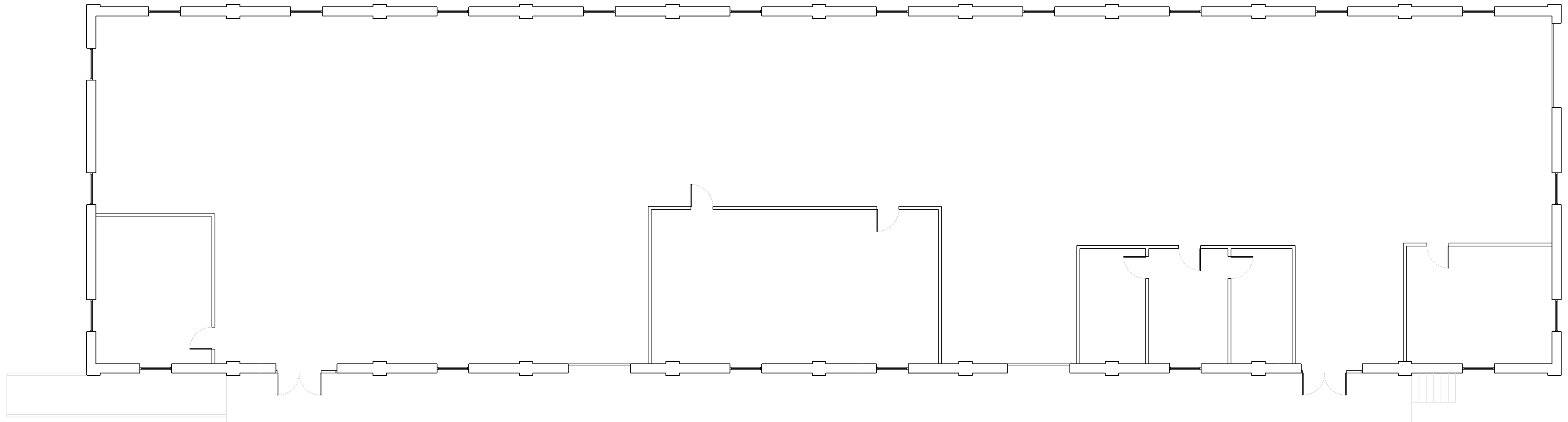
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PROJECT NO.: 42190067

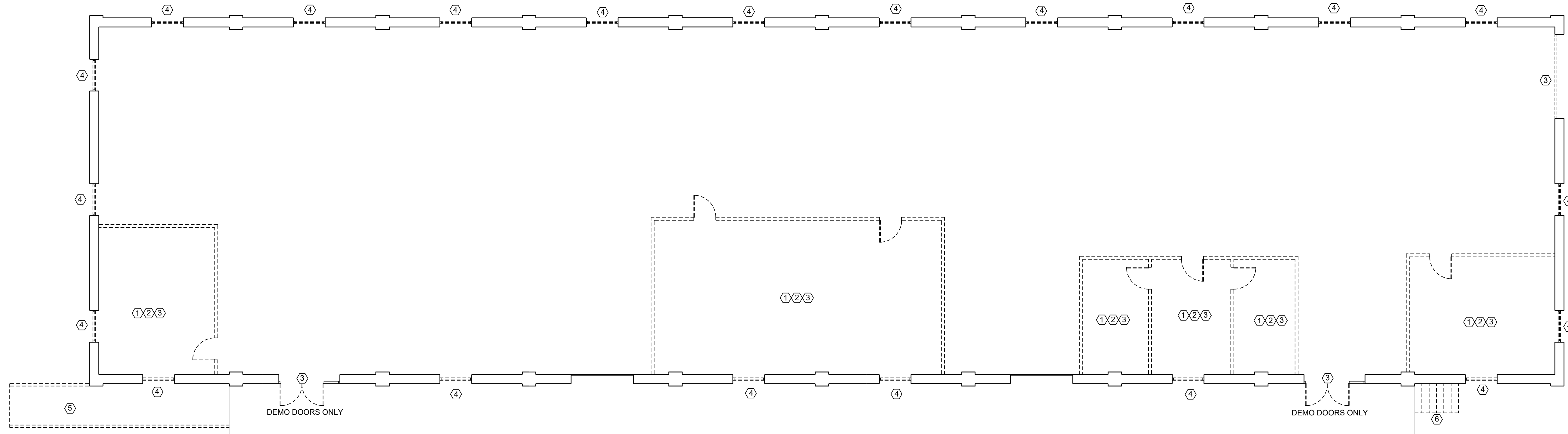
BLDG. RENOVATIONS
FT. MIFFLIN BLDG. 57
 PHILADELPHIA
 PHILADELPHIA COUNTY, PENNSYLVANIA

COVER SHEET

| | | |
|------------------------|-----------------------|----------------------|
| DRAWN BY R.FISHBURN | DATE 31 MARCH 2023 | DRAWING NO. G.1.1 |
| CHECKED BY J.NYE | SCALE AS NOTED | |



BLDG. 57 EXISTING FLOOR PLAN
SCALE: 1/8" = 1'-0"



BLDG. 57 DEMO PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

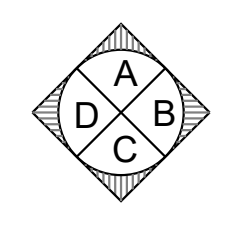
1. REMOVE EXISTING CEILING.
2. REMOVE EXISTING WALLS
3. REMOVE DOOR AND FRAME - RETURN ANY LOCK CORES TO DEPT.
4. REMOVE EXISTING STEEL WINDOW AND SHUTTERS
5. REMOVE DAMAGED WALK WAY RAMP
6. REMOVE EXISTING CONCRETE STAIRWAY

GENERAL NOTES:

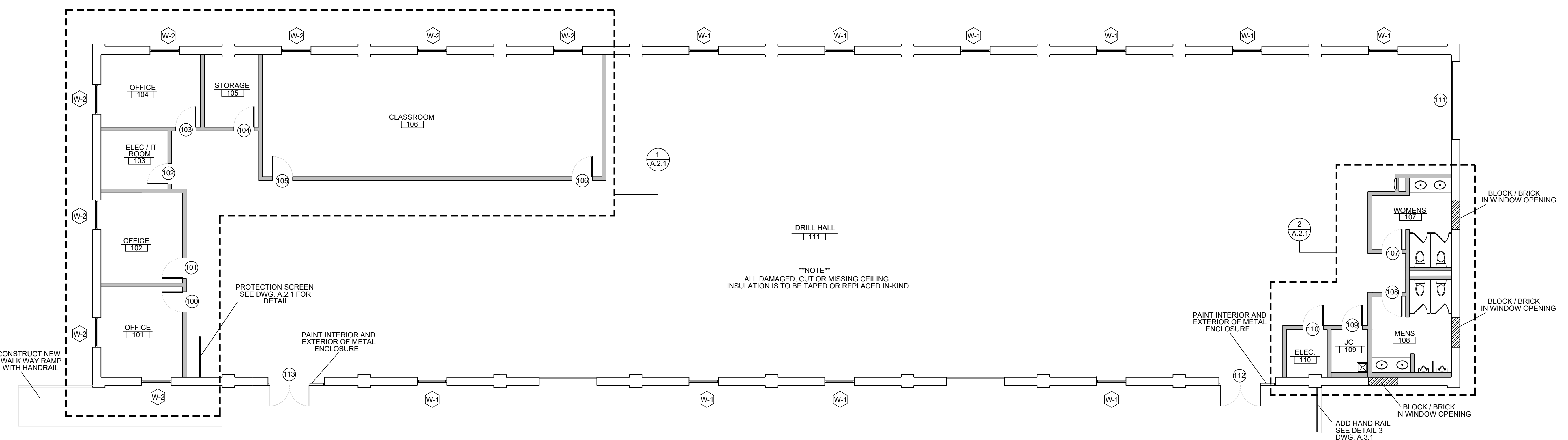
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7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS - UNLESS NOTED ON DRAWING OR IN SPECIFICATIONS.

LEGEND

- NEW INTERIOR WALL
- GROUT, GYPSUM SHEETING
- BATT FIBERGLASS INSULATION
- DOOR NUMBER
- WALL TYPE
- ROOM NUMBER
- ELEVATION VIEW
- WINDOW NUMBER



ELEVATION KEY



BLDG. 57 FLOOR PLAN
SCALE: 1/8" = 1'-0"

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |

REVISIONS

Professional's Signature Date

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PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

FLOOR PLAN

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

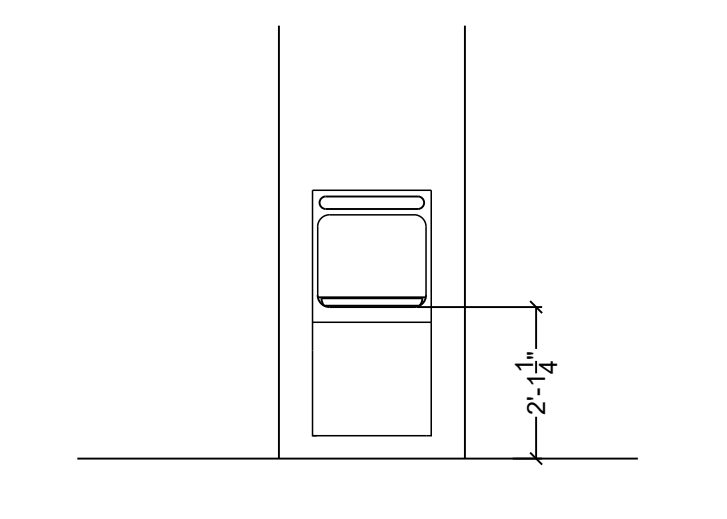
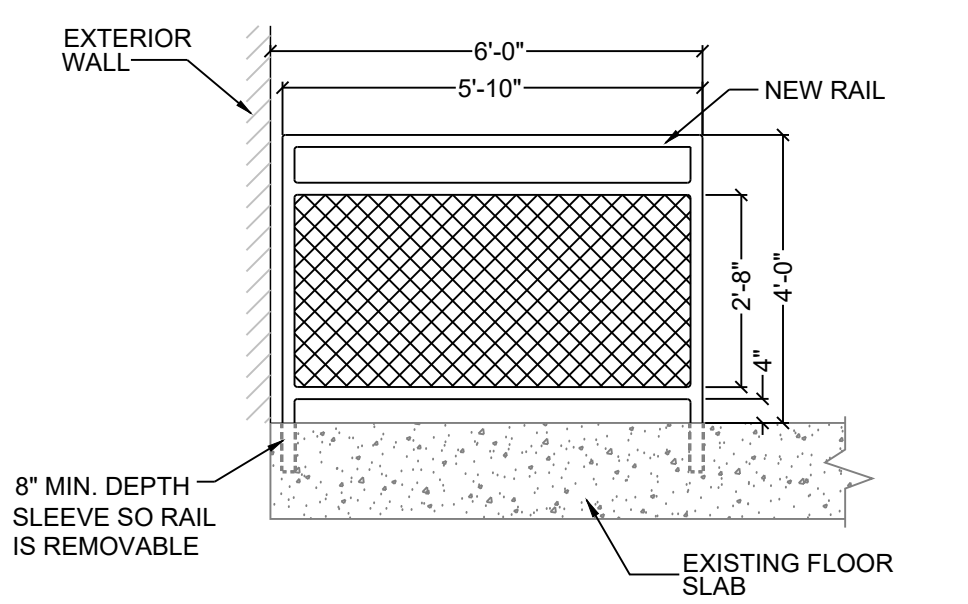
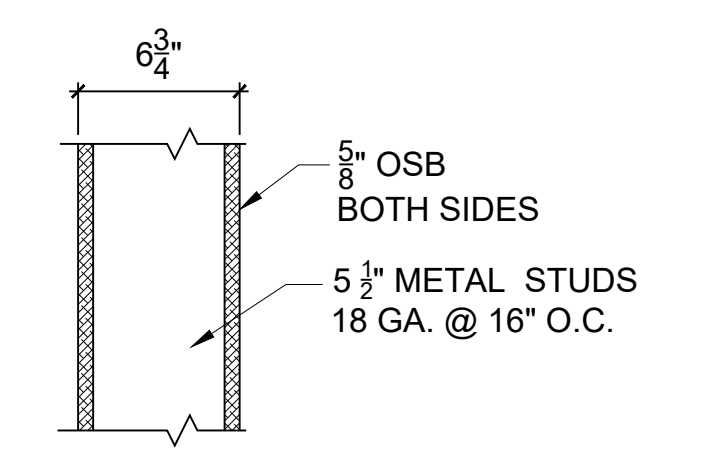
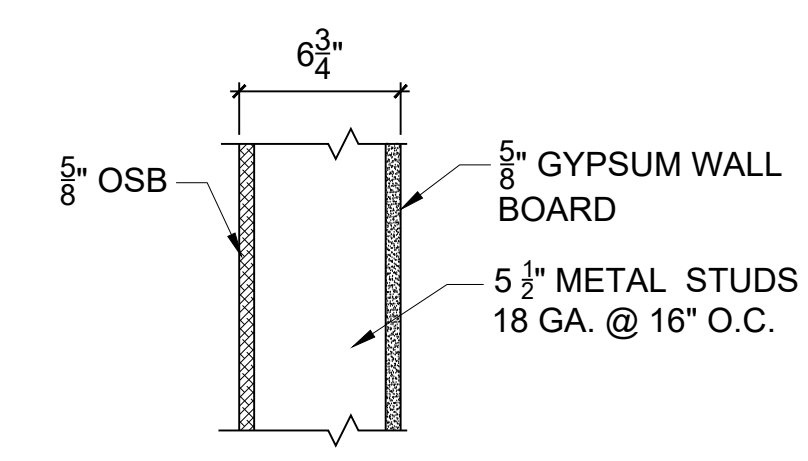
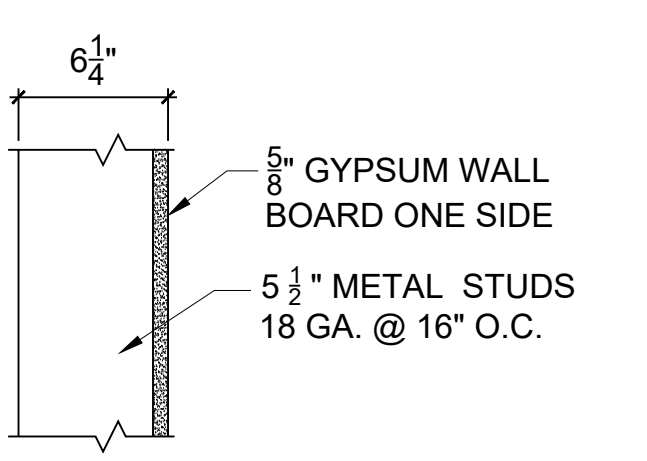
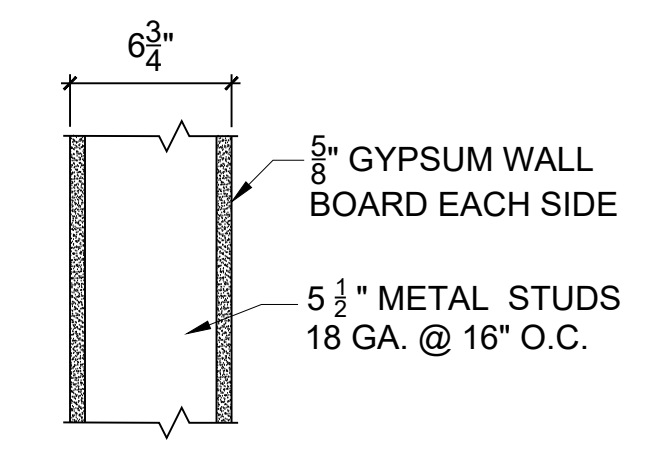
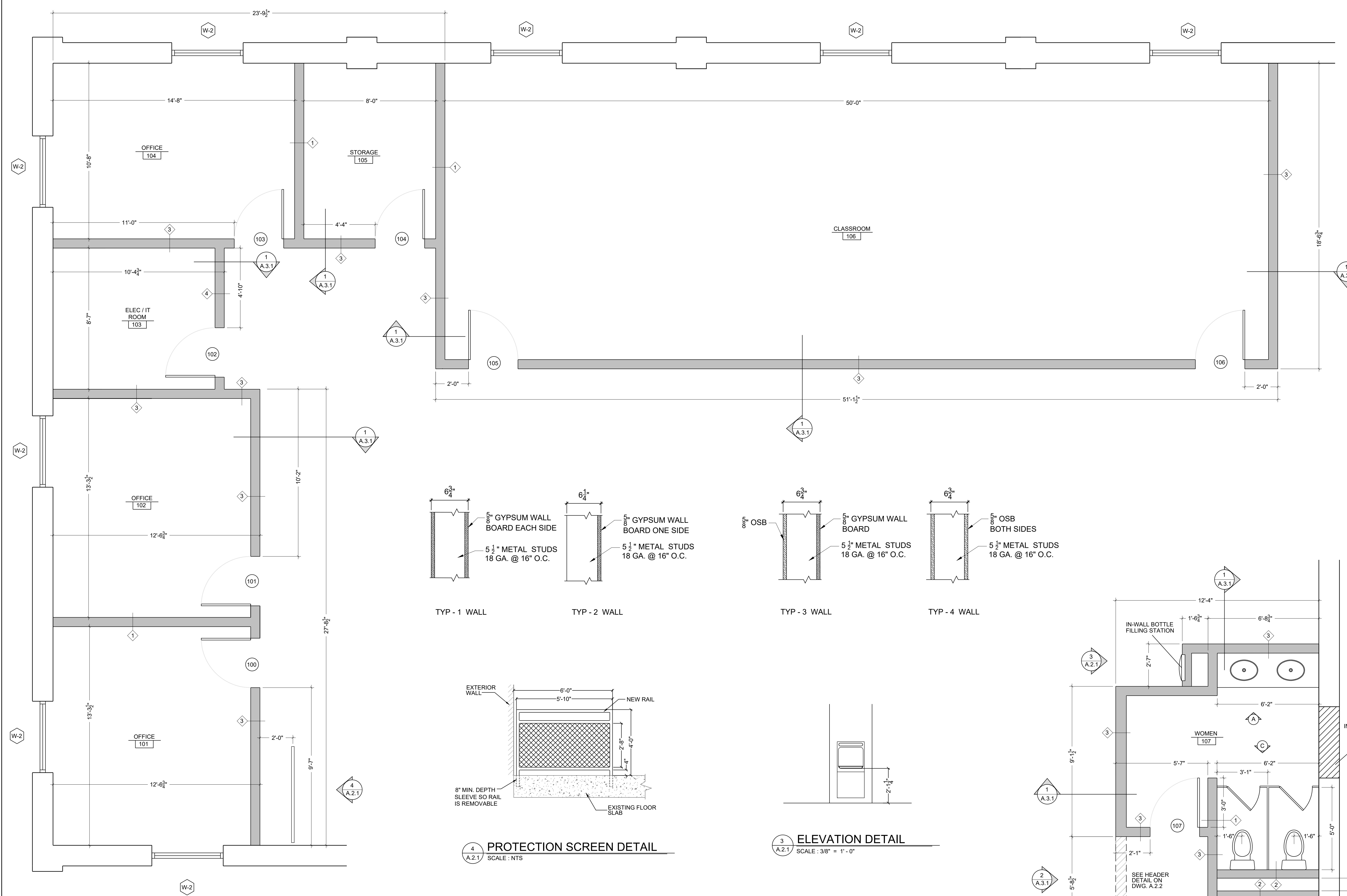
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| | | |
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| DRAWN BY R. FISHBURN | DATE 30 MARCH 2023 | DRAWING NO. A.1.1 |
| CHECKED BY J. NYE | SCALE AS NOTED | |

***NOTE**
RAILING STRUCTURAL PERFORMANCE
UNIFORM LOAD: 50 lb/ft IN ANY DIRECTION
CONCENTRATED LOAD: 200 lb/ft IN ANY DIRECTION

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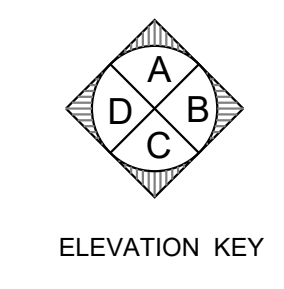
1 OFFICE AREA
SCALE: 3/8" = 1'-0"

4 PROTECTION SCREEN DETAIL
SCALE: NTS

3 ELEVATION DETAIL
SCALE: 3/8" = 1'-0"

LEGEND

- NEW INTERIOR WALL
- GROUT, GYPSUM SHEETING
- BATT FIBERGLASS INSULATION
- DOOR NUMBER
- WALL TYPE
- ROOM NUMBER
- ELEVATION VIEW
- WINDOW NUMBER



| NO. | DESCRIPTION | DATE |
|-----------|-------------|------|
| REVISIONS | | |
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Professional's Signature _____ Date _____

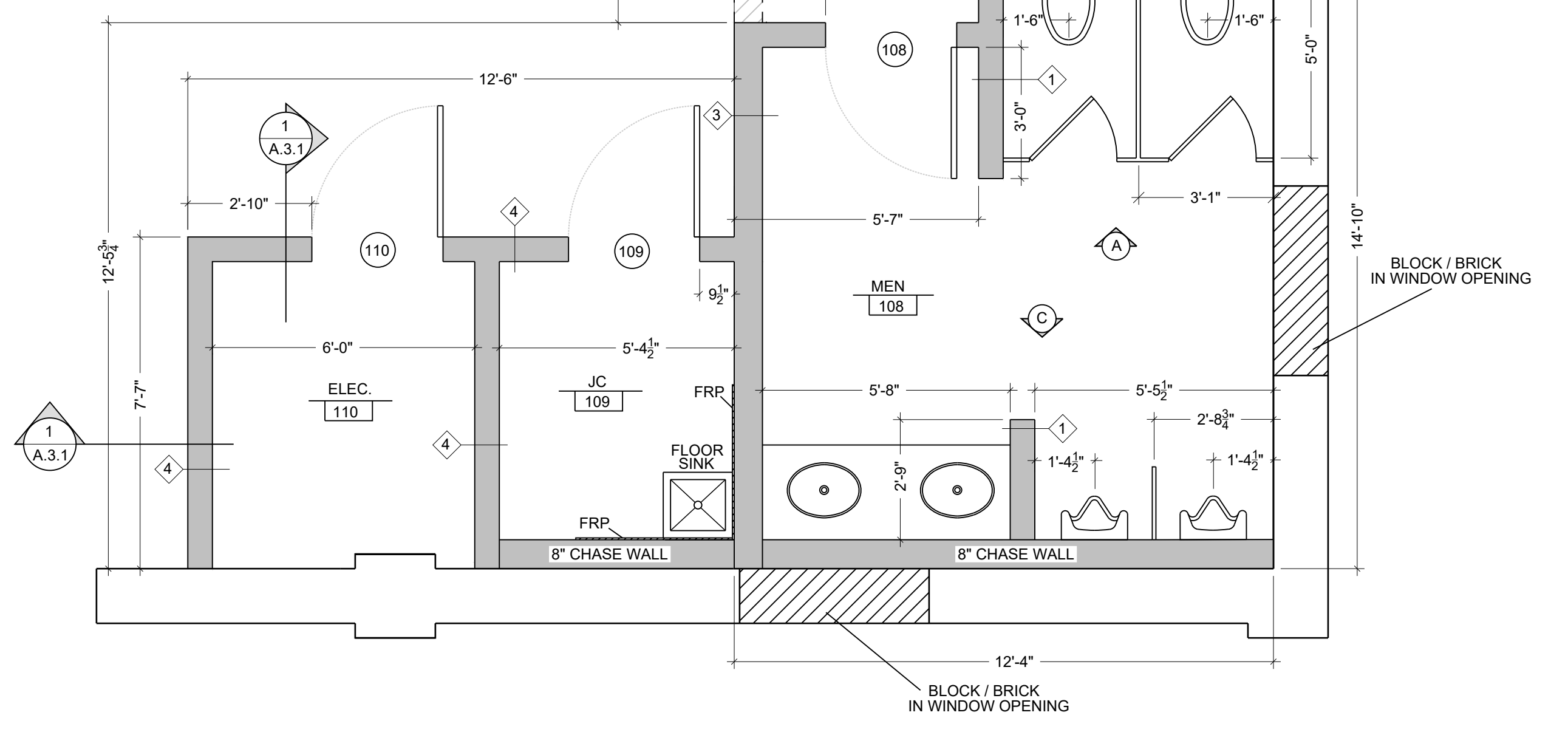
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PROJECT NO.: 42190067
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FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

ENLARGED FLOOR PLAN

| RM. NO. | ROOM NAME | FLOOR MATERIAL | BASE MATERIAL | WALLS | | | | CEILING | | REMARKS | RM. NO. |
|---------|-----------------|----------------|---------------|------------------|------------------|------------------|------------------|----------|-------|-----------------------------|---------|
| | | | | MATERIAL 'A' | MATERIAL 'B' | MATERIAL 'C' | MATERIAL 'D' | MATERIAL | HGT. | | |
| 101 | OFFICE | EPOXY | 4" VCB | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | ACT | 8'-6" | | 101 |
| 102 | OFFICE | EPOXY | 4" VCB | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | ACT | 8'-6" | | 102 |
| 103 | ELEC. / IT ROOM | EPOXY | 4" VCB | PAINT OSB | PAINT OSB | PAINT OSB | PAINT OSB | | | | 103 |
| 104 | OFFICE | EPOXY | 4" VCB | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | ACT | 8'-6" | | 104 |
| 105 | STORAGE | EPOXY | 4" VCB | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | ACT | 8'-6" | | 105 |
| 106 | CLASSROOM | EPOXY | 4" VCB | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | PAINT GYP. BOARD | ACT | 8'-6" | | 106 |
| 107 | FEMALE RESTROOM | EPOXY | 4" VCB | GYP. PAINT/FRP | GYP. PAINT/FRP | GYP. PAINT/FRP | GYP. PAINT/FRP | ACT | 8'-6" | | 107 |
| 108 | MALE RESTROOM | EPOXY | 4" VCB | GYP. PAINT/FRP | GYP. BOARD/FRP | GYP. PAINT/FRP | PAINT GYP. BOARD | ACT | 8'-6" | | 108 |
| 109 | JANITOR CLOSET | EPOXY | 1X4 | PAINT OSB | PAINT OSB / FRP | PAINT OSB / FRP | PAINT OSB | | | 48"X48" FRP AROUND MOP SINK | 109 |
| 110 | ELEC. ROOM | EPOXY | 1X4 | PAINT OSB | PAINT OSB | PAINT OSB | PAINT OSB | | | | 110 |
| 111 | DRILL FLOOR | EPOXY | 1X4 | PAINT | PAINT | PAINT | PAINT | | | | 111 |



2 RESTROOMS
SCALE: 3/8" = 1'-0"

VERIFY SCALE

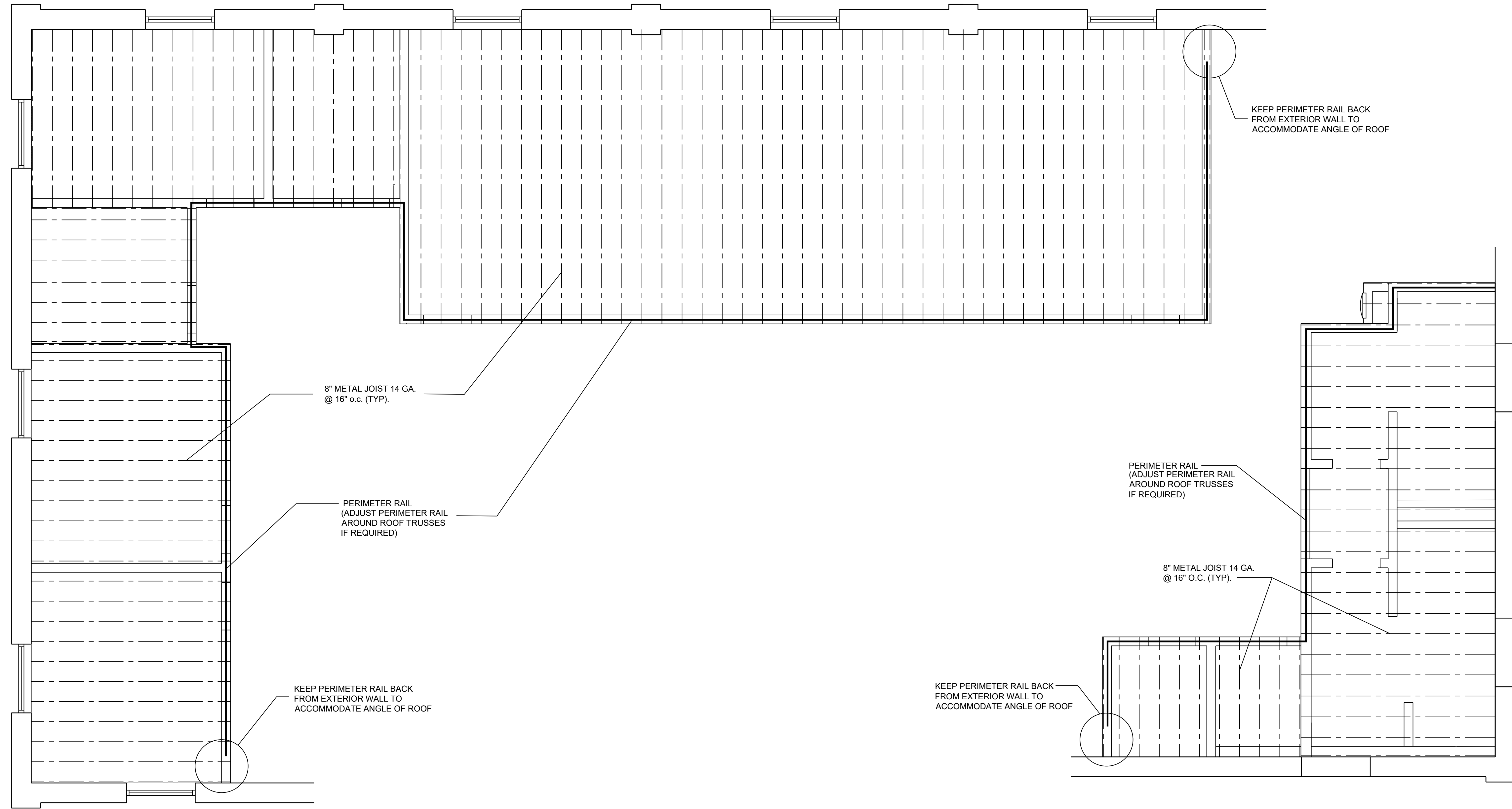
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| | | |
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| DRAWN BY R.FISHBURN | DATE 30 MARCH 2023 | DRAWING NO. A.2.1 |
| CHECKED BY J. NYE | SCALE AS NOTED | |

GENERAL NOTES:

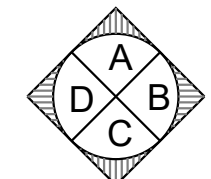
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BLDG. 57 CEILING JOIST LAYOUT
SCALE: 1/4" = 1'-0"

LEGEND

- NEW INTERIOR WALL
- GROUT, GYPSUM SHEETING
- BATT FIBERGLASS INSULATION
- DOOR NUMBER
- WALL TYPE
- ROOM NUMBER
- ELEVATION VIEW
- WINDOW NUMBER



ELEVATION KEY

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
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REVISIONS

| NO. | DESCRIPTION | DATE |
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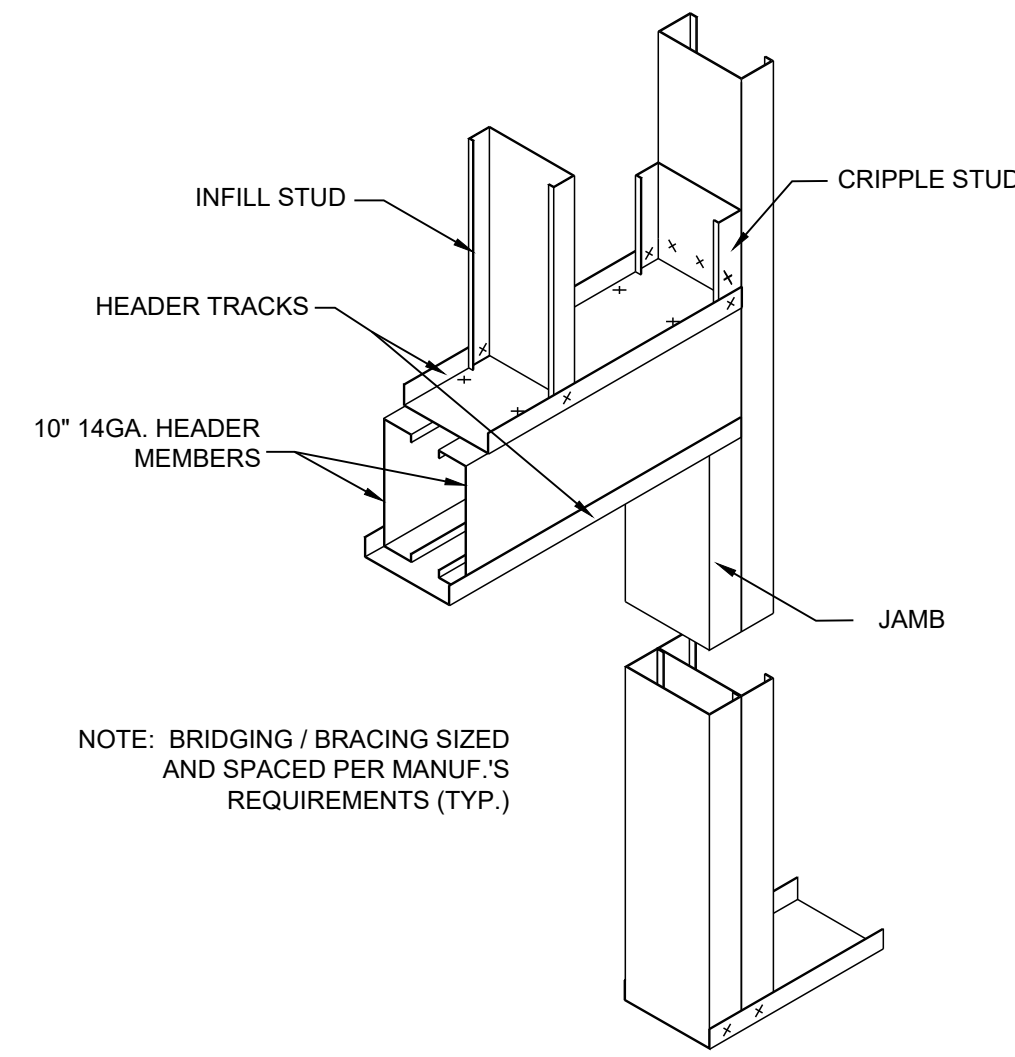
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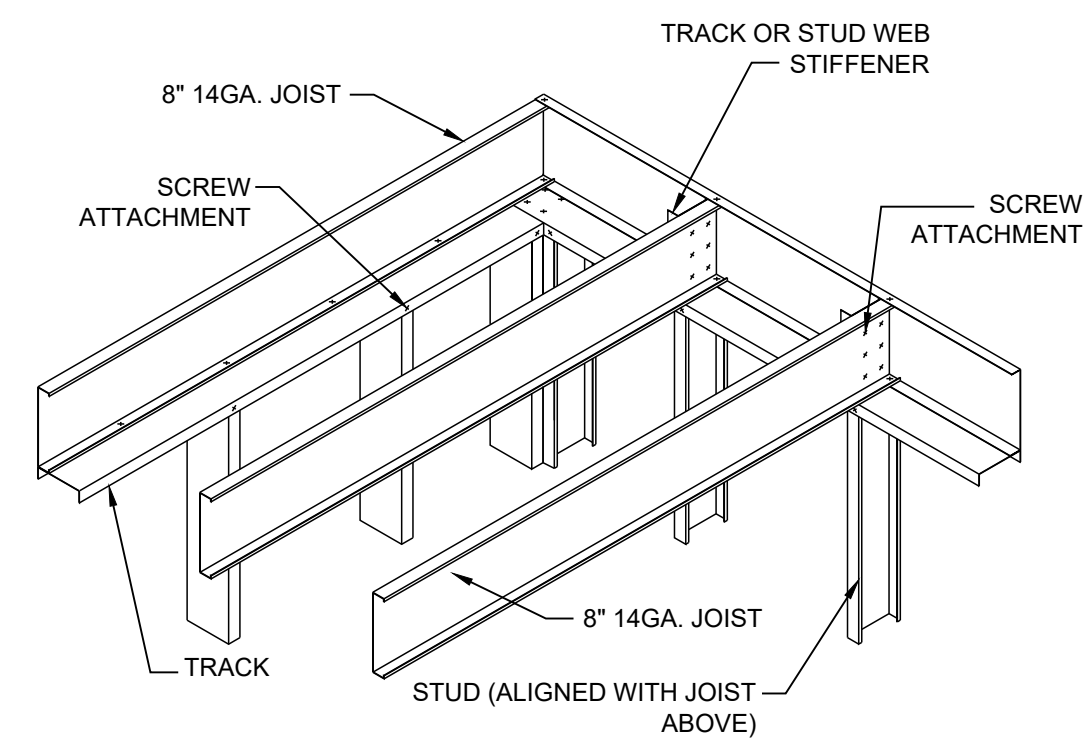
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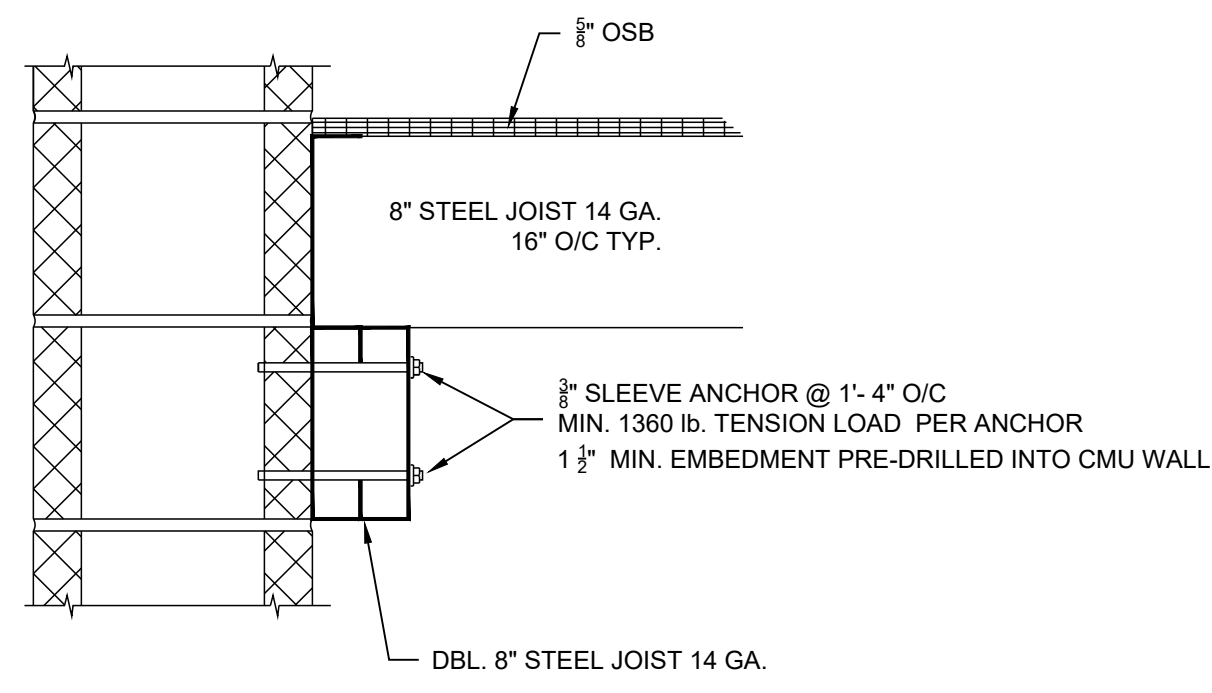
CEILING JOIST LAYOUT



HEADER DETAIL



CEILING JOIST DETAIL



WALL ATTACHMENT DETAIL

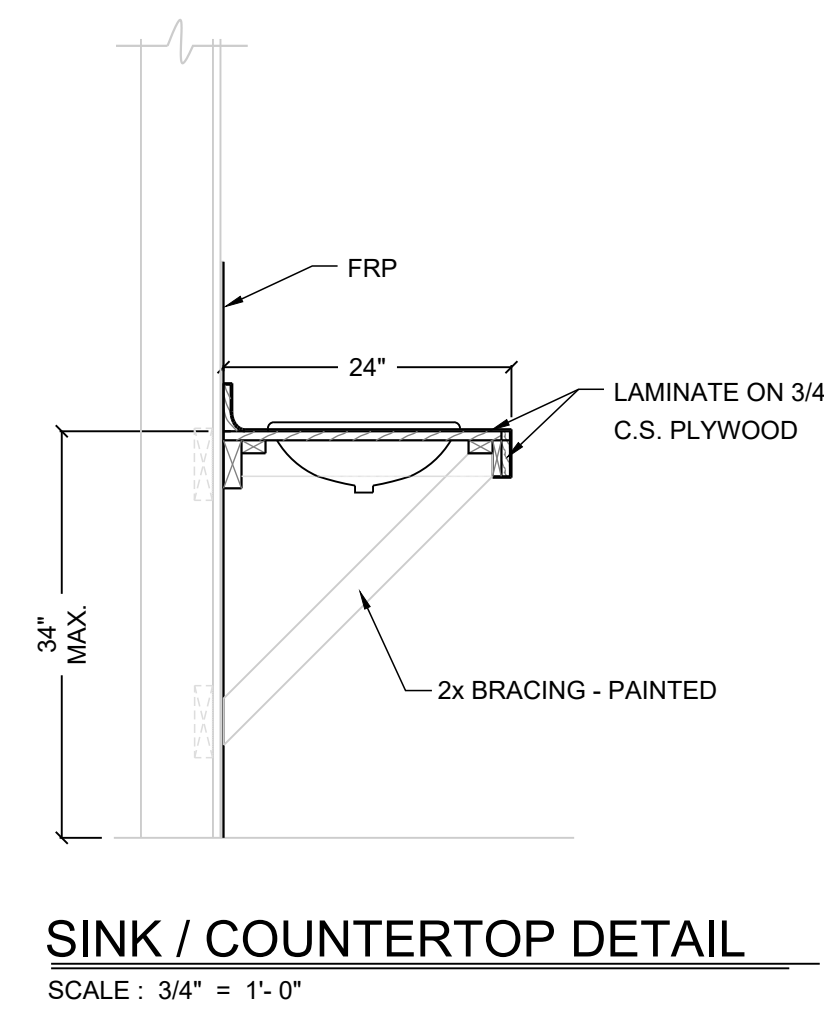
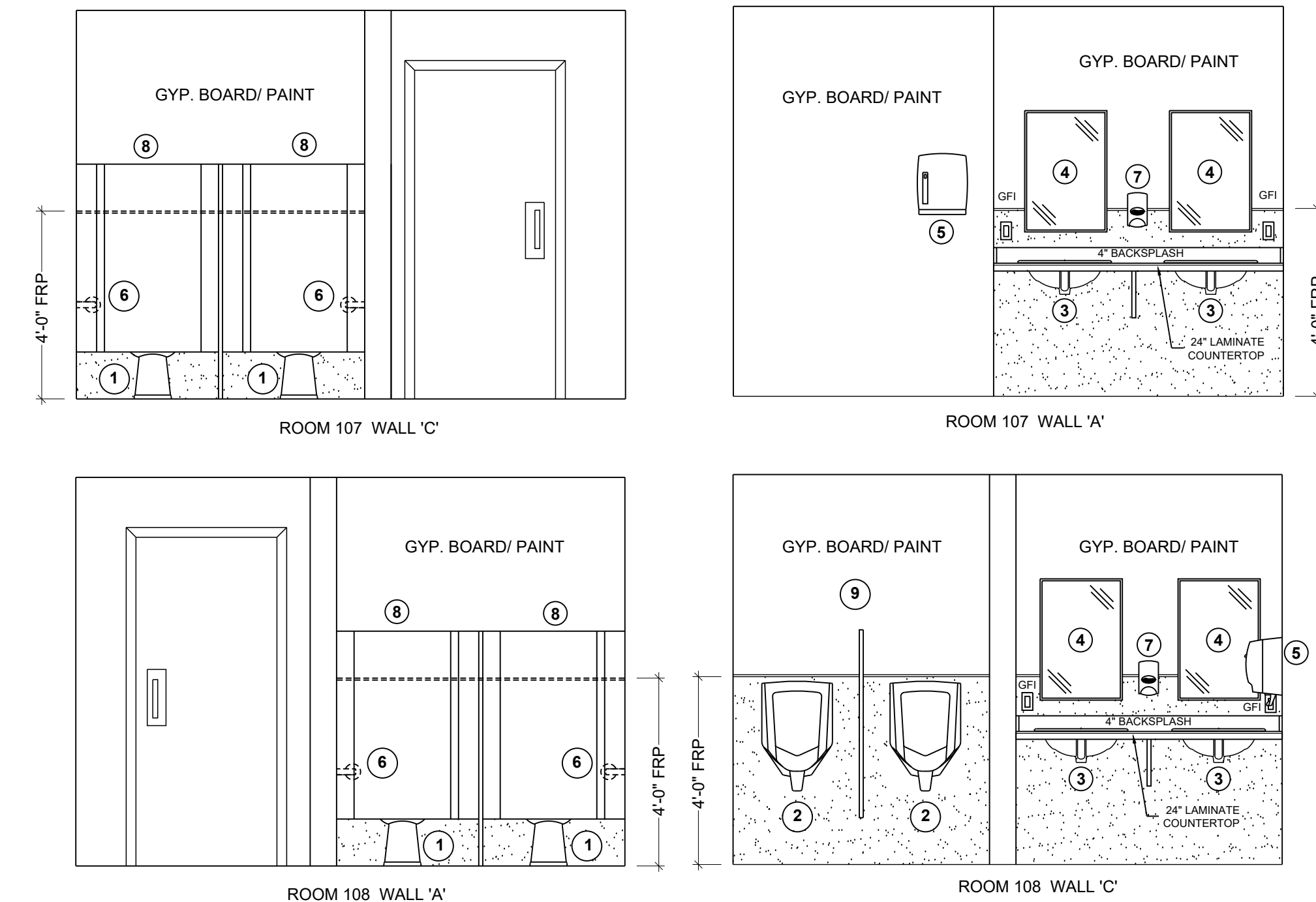
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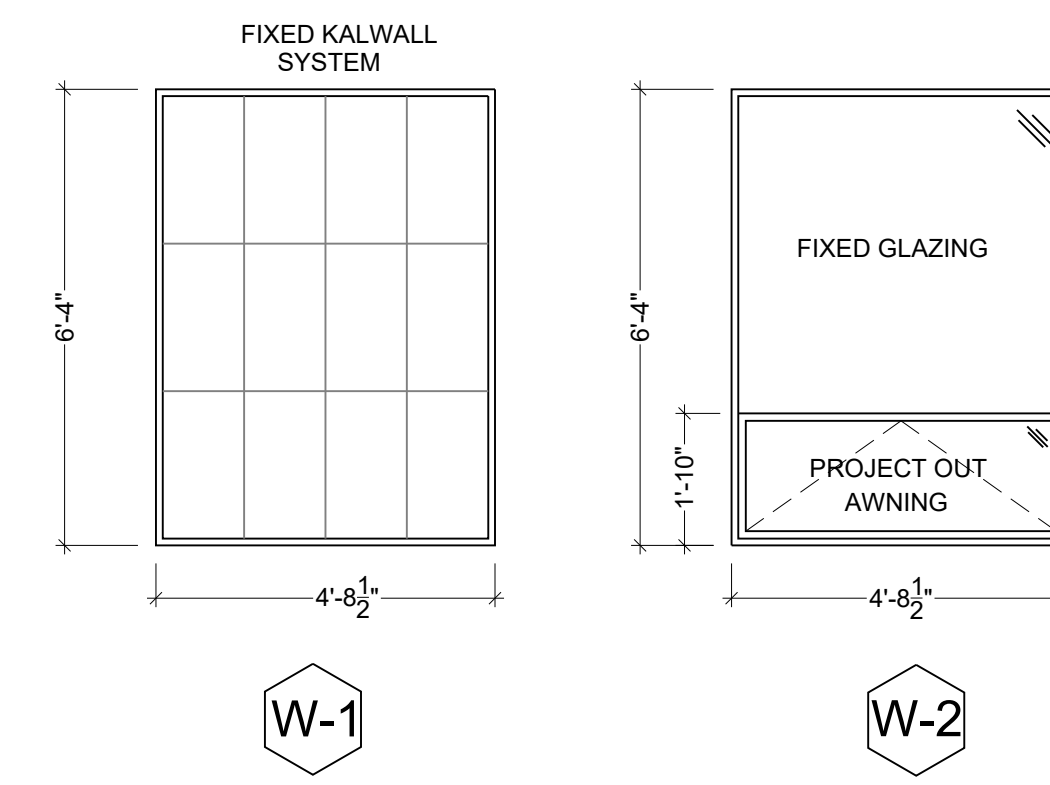
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| DRAWN BY R. FISHBURN | DATE 30 MARCH 2023 | DRAWING NO. A.2.2 |
| CHECKED BY J. NYE | SCALE AS NOTED | |

| TOILET ROOM ACCESSORIES | | | | | |
|-------------------------|-------------------------|-----------------------|-----|---------------------------|-----|
| NO. | DESCRIPTION | MOUNTING HEIGHT (AFF) | | REMARKS | NO. |
| | | STANDARD | ADA | | |
| 1 | WATER CLOSET | 14 1/2" | 17" | TOP OF BOWL | 1 |
| 2 | URINAL | 24" | 34" | TOP OF SPUD | 2 |
| 3 | SINK | 30" | 34" | TOP OF SPUD | 3 |
| 4 | MIRROR | 42" | 40" | BOTTOM OF FRAME | 4 |
| 5 | PAPER TOWEL DISPENSER | 44" | 44" | BOTTOM OF FRAME | 5 |
| 6 | TOILET PAPER DISPENSER | 24" | 19" | BOTTOM OF DISPENSER | 6 |
| 7 | SOAP DISPENSER | 48" | 40" | BOTTOM OF DISPENSER | 7 |
| 8 | TOILET PARTITION | | | FLOOR MOUNTED W/ OH RAILS | 8 |
| 9 | 20" X 48" URINAL SCREEN | 12" | | BOTTOM OF PANEL | 9 |



| ALUMINUM WINDOW REPLACEMENT SCHEDULE | | | | | |
|--------------------------------------|-------|-------------------------------|--------------------------------|---|--|
| SYM. | MATL | TYPE | MASONRY OPENING | REMARKS | |
| W-1 | ALUM. | FIXED KALWALL SYSTEM | 4'-8 1/2" X 6'-4" FIELD VERIFY | FIBERGLASS REINF TRANSLUCENT GLAZING SYSTEM W/ GRID CORE | |
| W-2 | ALUM. | FIXED PROJECT OUT AWNING SASH | 4'-8 1/2" X 6'-4" FIELD VERIFY | PROVIDE INSECT SCREEN FOR OPERATING SASH D.O.D. WINDOW TYPE 'A' GLAZING | |



- NOTES:**
- ALL SILL JOINTS ARE TO BE REPAIRED/RECAULKED
 - CONTRACTORS MUST SUPPLY ALL CONNECTIONS, SHIMS, AND CAULKING ALL AROUND
 - ALL EXPOSED METAL LINTEL MUST BE CLEANED AND RE-PAINTED
 - GLAZING AND KALWALL PANEL MUST MEET DOD TYPE 'A' BLAST MITIGATION
 - FIELD VERIFY SIZES
 - CONTRACTORS WILL BE RESPONSIBLE FOR SILL AND FRAME MODIFICATIONS IF WINDOW SASH WIDTH VARIES BECAUSE OF GLAZING THICKNESS DUE TO ATPF REQUIREMENTS

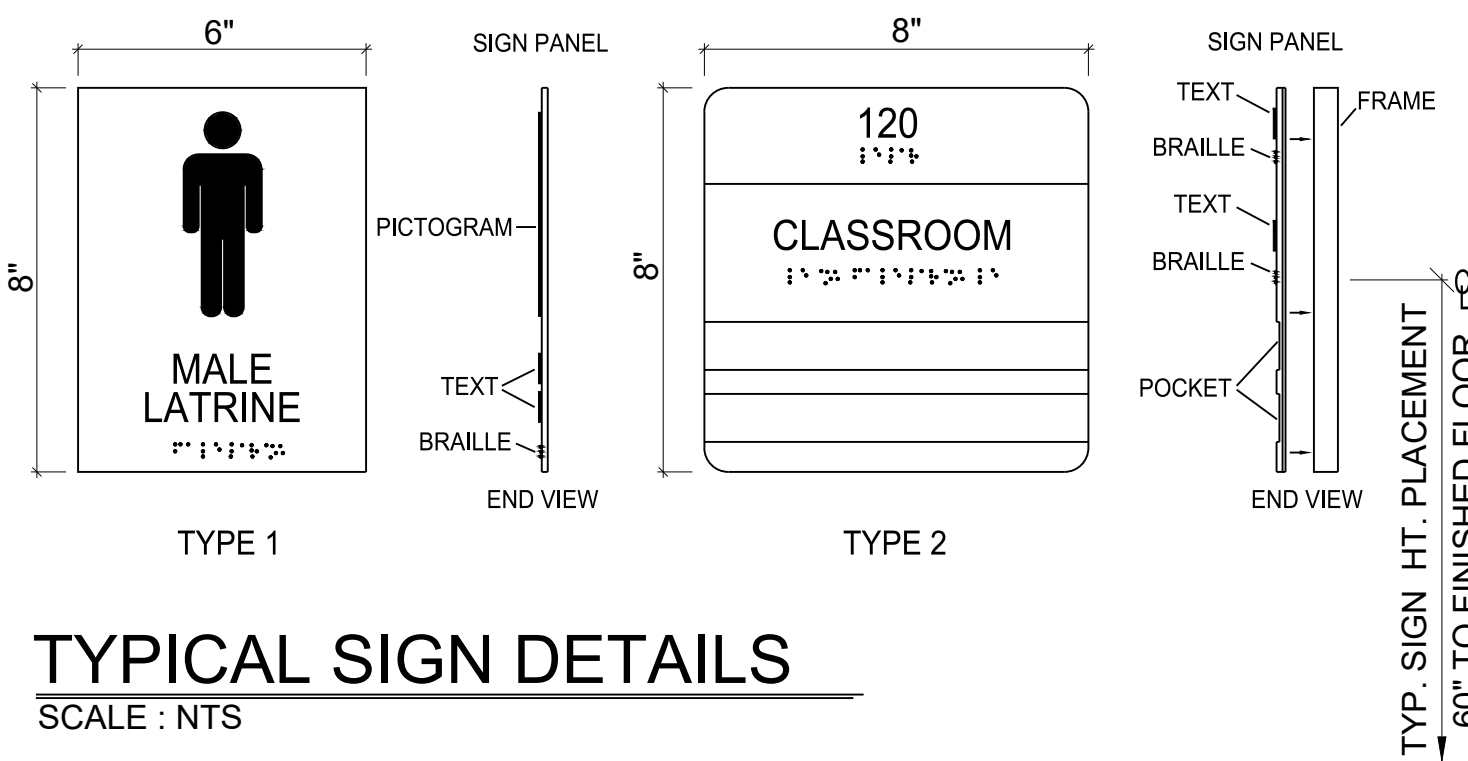
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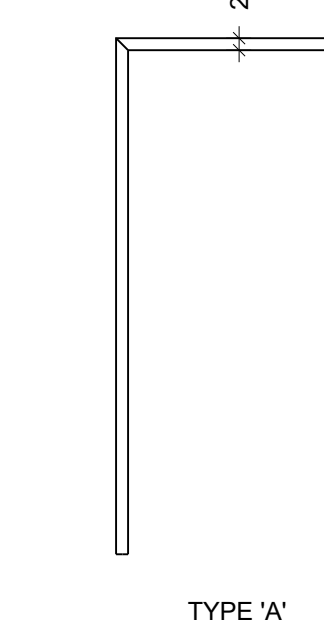
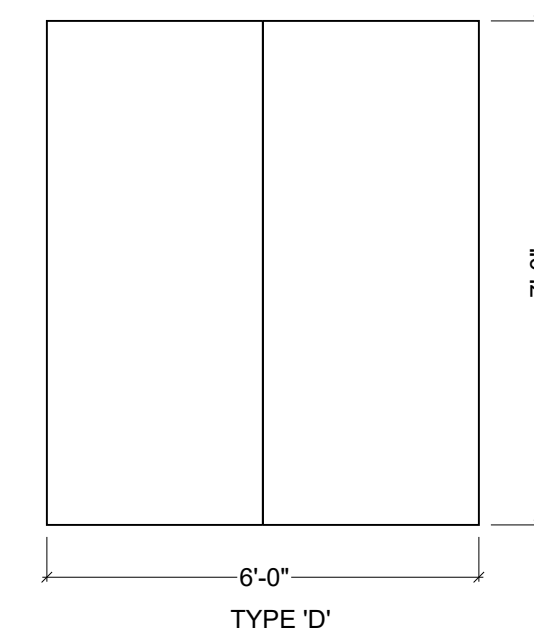
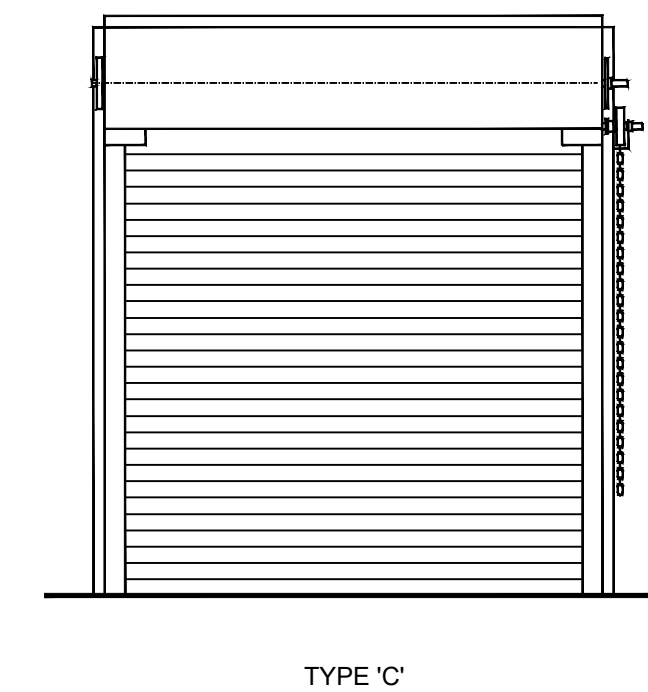
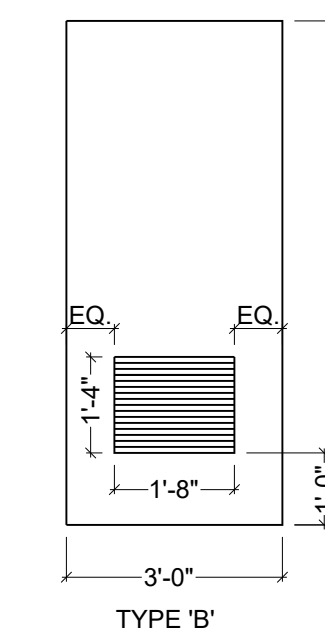
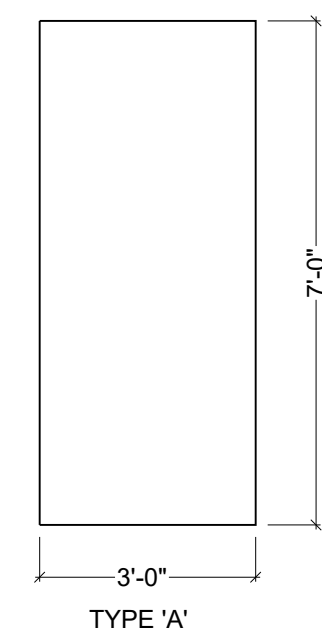
| DOOR AND FRAME SCHEDULE | | | | | | | | | | | | | | | | |
|-------------------------|---------|--------|----|-------|------|-------|--------|-------------|-------|----------|-----------|--------|----------|-------------|----------------------|-------------|
| DOOR NUMBER | SIZE | | | DOOR | | | FRAME | | | HARDWARE | | | REMARKS | DOOR NUMBER | | |
| | W | H | T | MATL | TYPE | GLASS | LOUVER | FIRE RATING | MATL | TYPE | JAMB TYPE | SET NO | | | KEY SIDE | CLOSER SIDE |
| 100 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 100 | |
| 101 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 101 | |
| 102 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 102 | |
| 103 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 103 | |
| 104 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 104 | |
| 105 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 105 | |
| 106 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 106 | |
| 107 | 3'-0" | 7'-0" | 2" | STEEL | B | | 20" | 16" | STEEL | A | A | 1 | EXTERIOR | INTERIOR | 107 | |
| 108 | 3'-0" | 7'-0" | 2" | STEEL | B | | 20" | 16" | STEEL | A | A | 1 | EXTERIOR | INTERIOR | 108 | |
| 109 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 2 | EXTERIOR | | 109 | |
| 110 | 3'-0" | 7'-0" | 2" | STEEL | A | | | | STEEL | A | A | 3 | EXTERIOR | | 110 | |
| 111 | 11'-0" | 14'-0" | 2" | STEEL | C | | | | STEEL | BY MFG. | BY MFG. | 5 | INTERIOR | | ELECTRIC DOOR OPENER | 111 |
| 112 | 2@3'-0" | 7'-0" | 2" | STEEL | D | | | | STEEL | A | A | 4 | EXTERIOR | INTERIOR | | 112 |
| 113 | 2@3'-0" | 7'-0" | 2" | STEEL | D | | | | STEEL | A | A | 4 | EXTERIOR | INTERIOR | | 113 |

DOOR HARDWARE SCHEDULE

- SET 1**
HINGES: HEAVY DUTY, 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: PUSH PLATE
LOCKING DEVICE: NONE
EXIT: FULL HANDLE
CLOSER: TOP SURFACE MOUNTED ON DOOR W/ 120° PARALLEL ARM
DOOR STOP: WALL MOUNTED
- SET 2**
HINGES: HEAVY DUTY, 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: LEVER W/ KEYPED CORE
LOCKING DEVICE: CYLINDRICAL LOCK W/ INSIDE PUSH BUTTON ACTIVATION
EXIT: LEVER
CLOSER: NONE
DOOR STOP: WALL MOUNTED
- SET 3**
HINGES: HEAVY DUTY, 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: LEVER W/ KEYPED CORE
LOCKING DEVICE: CYLINDRICAL LOCK W/ INSIDE PUSH BUTTON ACTIVATION
EXIT: LEVER
CLOSER: NONE
DOOR STOP: NONE
- SET 4**
HINGES: HEAVY DUTY, 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: LEVER W/ KEYPED CORE
LOCKING DEVICE: MORTISE LOCK
EXIT: TOUCH BAR
CLOSER: TOP SURFACE MOUNTED ON DOOR W/ 120° PARALLEL ARM
DOOR STOP: NONE
WEATHER STRIPING AND DOOR SWEEPS REQUIRED
- SET 5**
MANUFACTURE'S STANDARD
ALL WEATHER SEALS AND BIRD REPELLENT BARRIER TO BE INSTALLED



TYP. SIGN HT. PLACEMENT
60" TO FINISHED FLOOR, ±



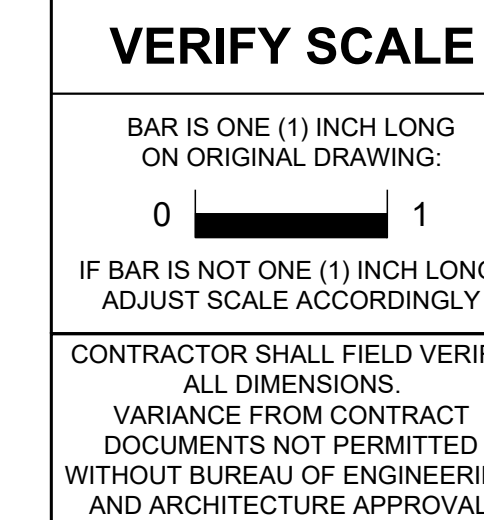
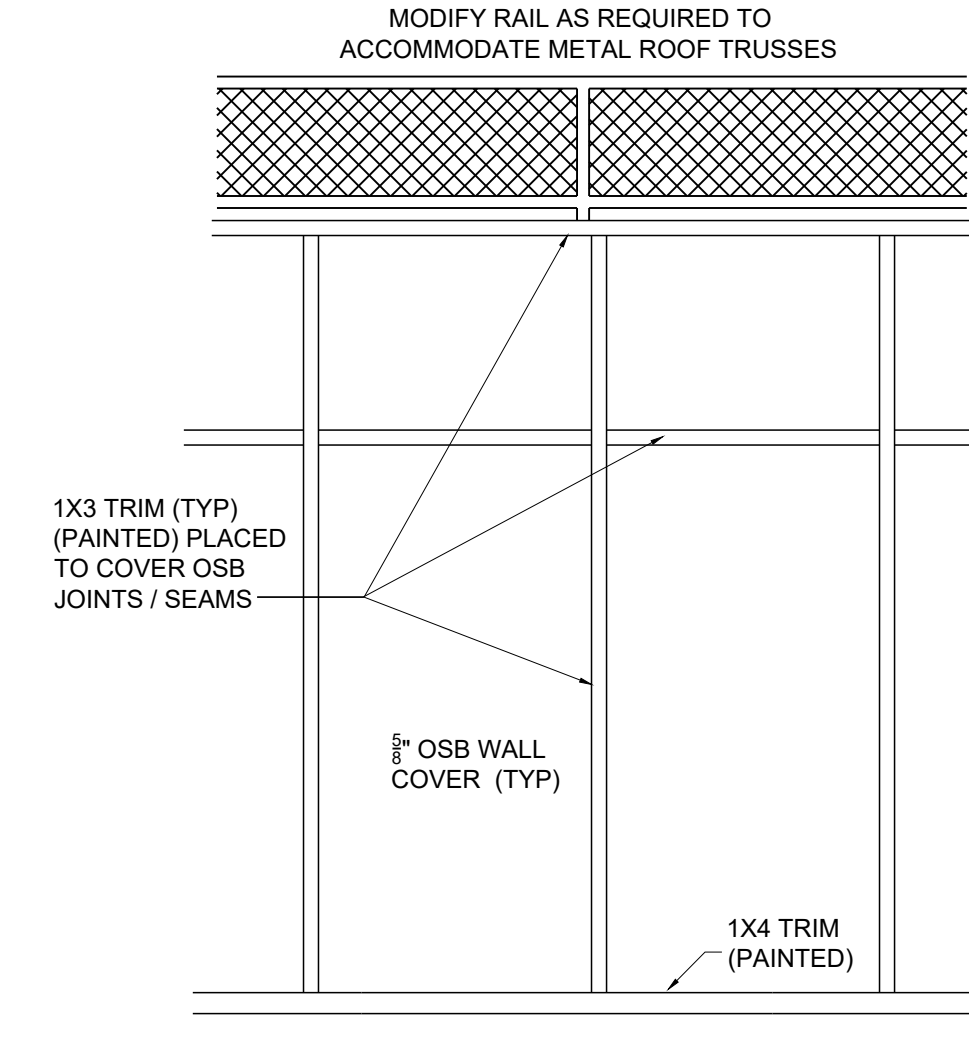
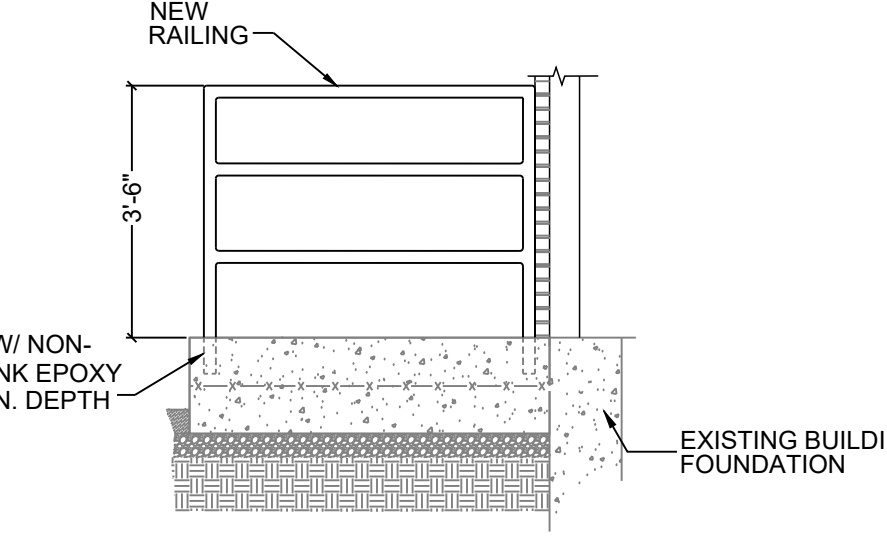
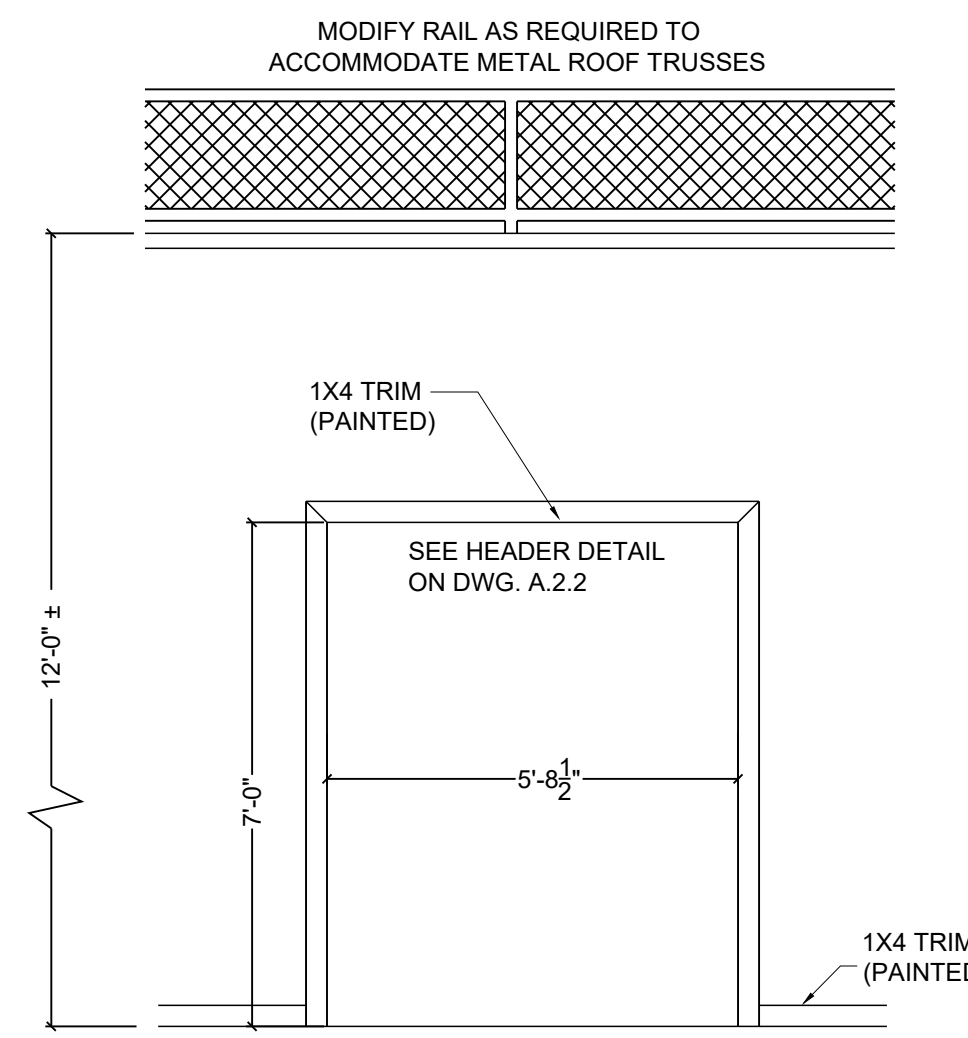
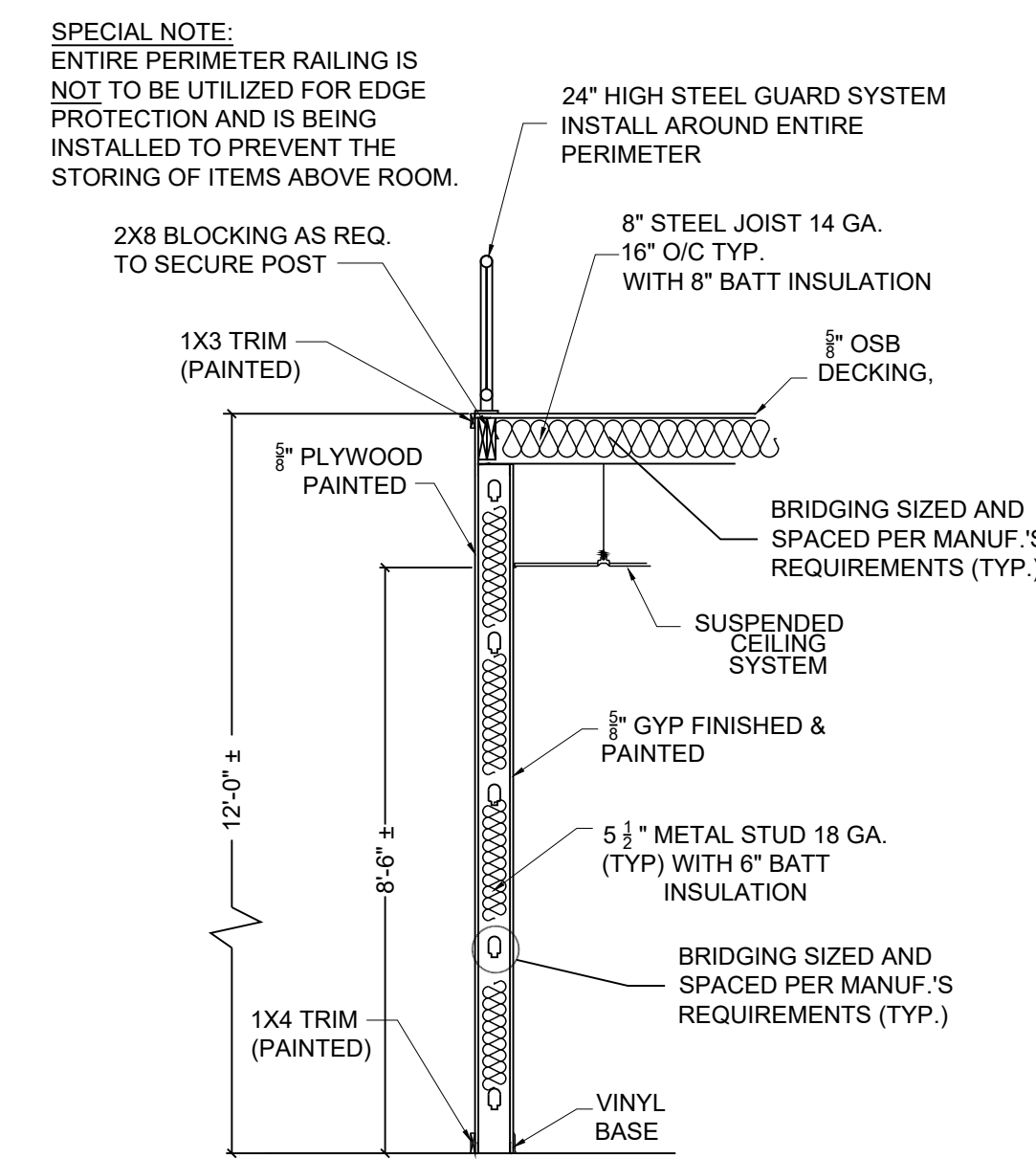
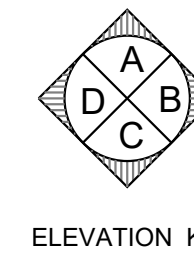
DOOR TYPES
SCALE: 3/8" = 1'-0"

FRAME TYPES
SCALE: 3/8" = 1'-0"

JAMB TYPES
SCALE: 1-1/2" = 1'-0"

LEGEND

- NEW INTERIOR WALL
- GROUT, GYPSUM SHEETING
- BATT FIBERGLASS INSULATION
- DOOR NUMBER
- WALL TYPE
- ROOM NUMBER
- ELEVATION VIEW
- WINDOW NUMBER



| NO. | DESCRIPTION | DATE |
|-----------|-------------|------|
| REVISIONS | | |

Professional's Signature _____ Date _____

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

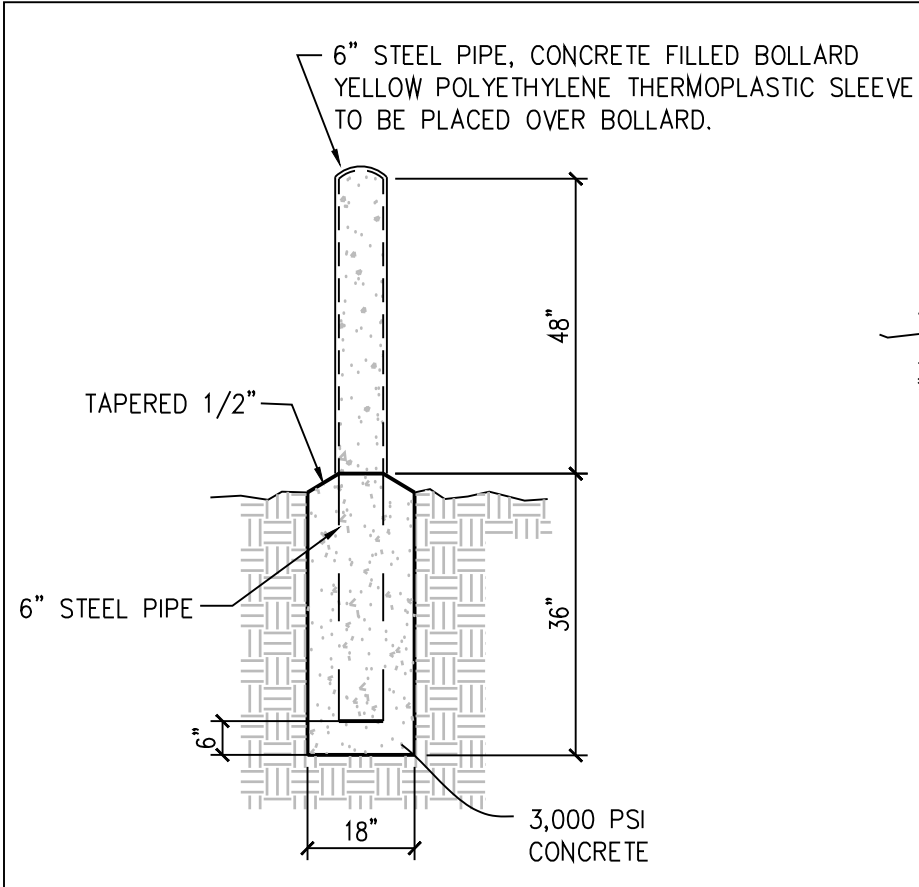
DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42190067

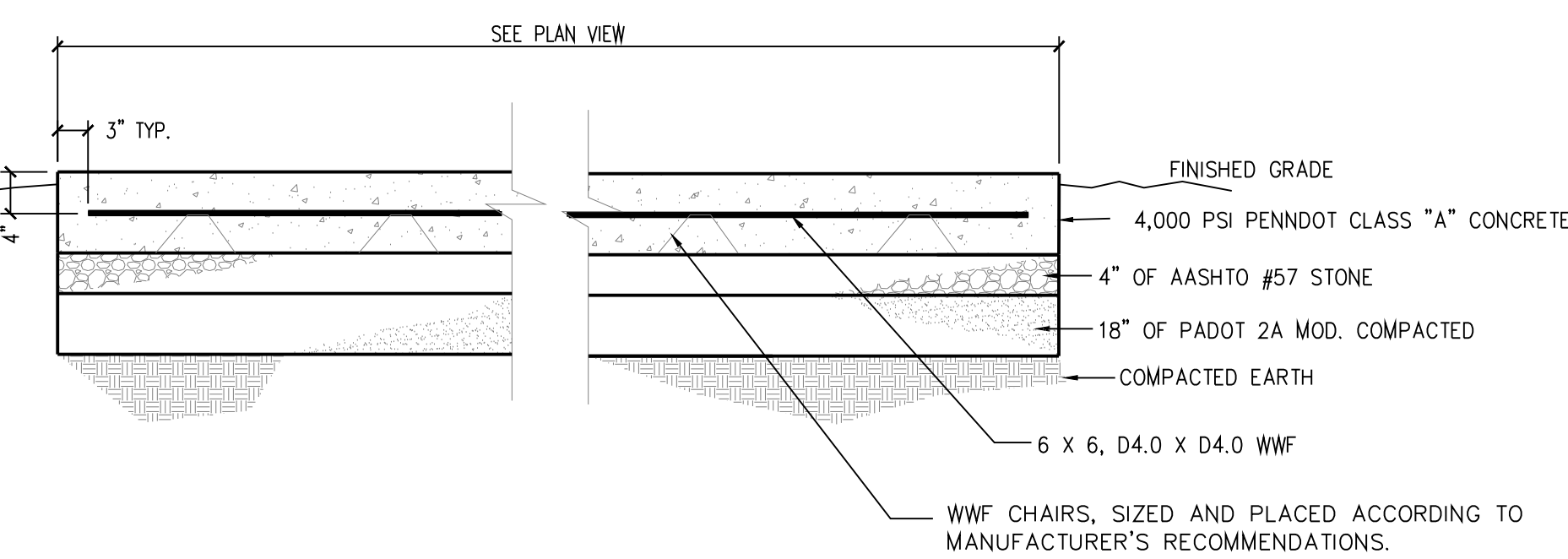
BLDG. RENOVATIONS
FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

SCHEDULES & DETAILS

| | | | |
|---|-------------------------------|------------------------------|-----------------------------|
| CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL. | DRAWN BY R.FISHBURN | DATE 30 MARCH 2023 | DRAWING NO. A.3.1 |
| | CHECKED BY J. NYE | SCALE AS NOTED | |



PIPE BOLLARD DETAIL
NO SCALE

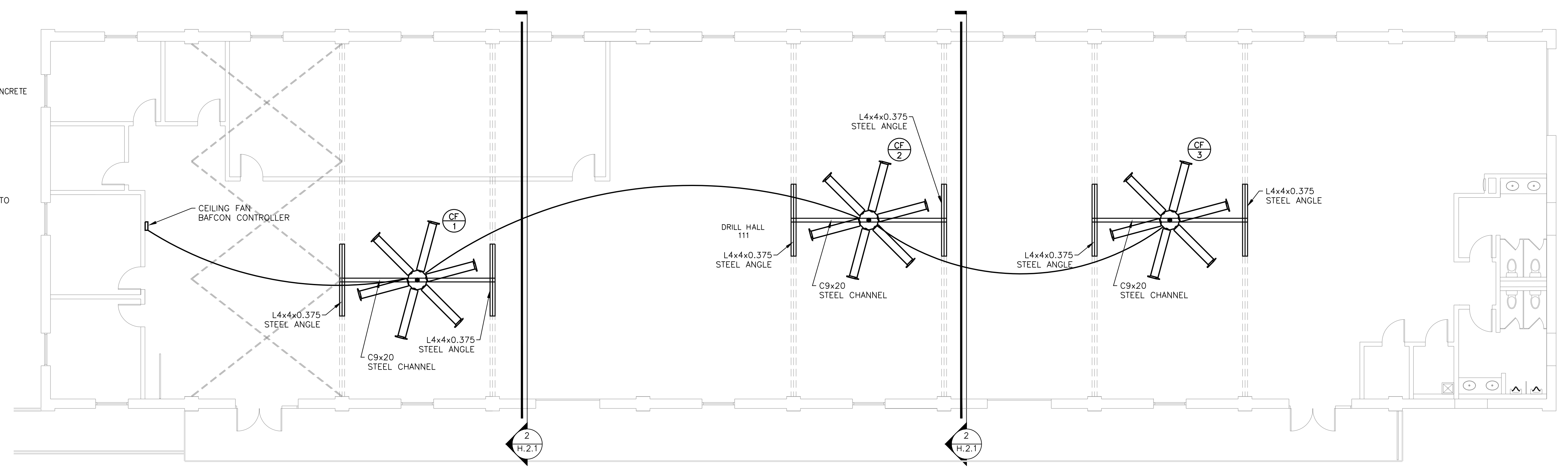


CONCRETE PAD DETAIL (TYPICAL)
NO SCALE

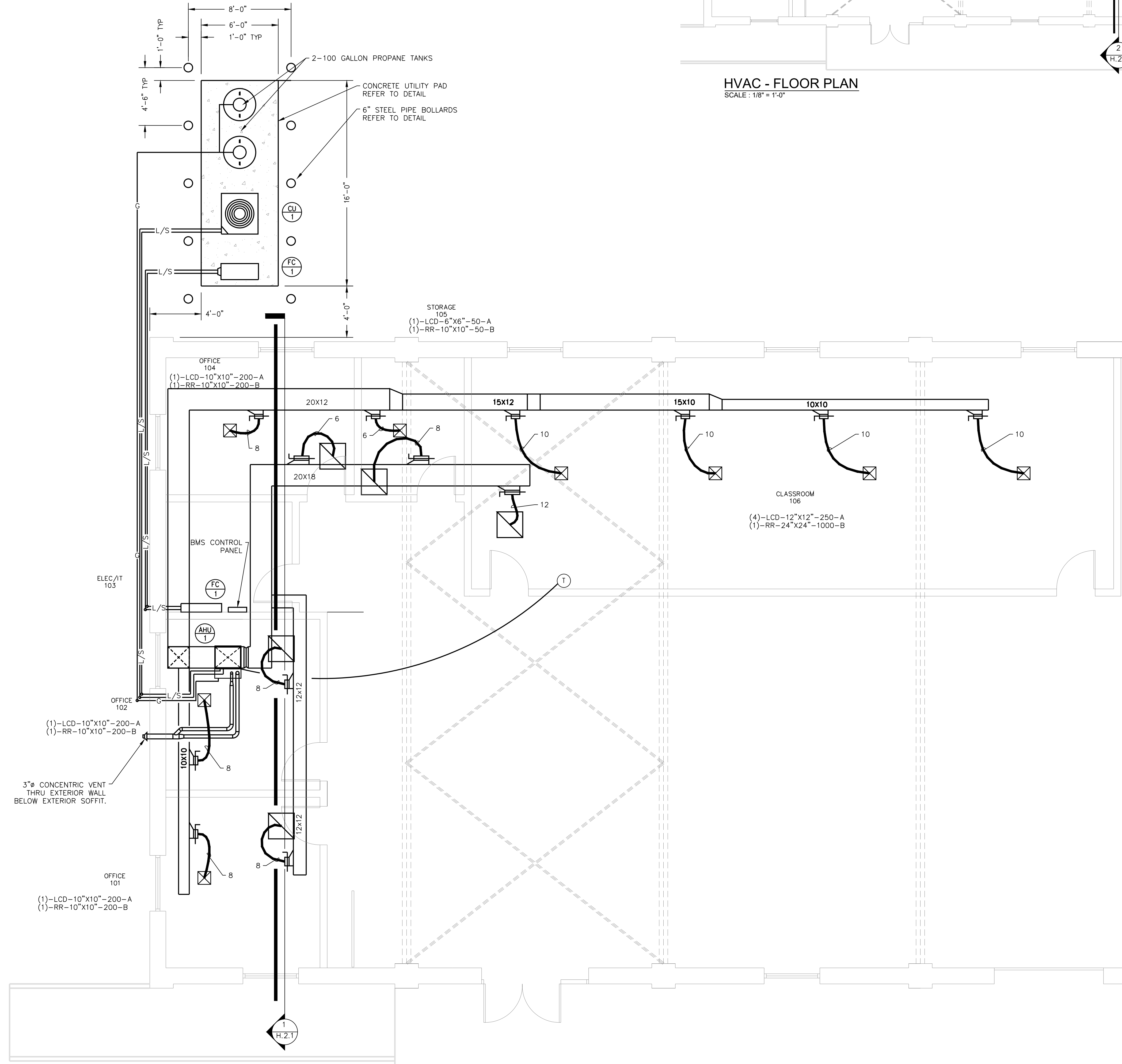
NOTE: THE CONTRACTOR WILL INSTALL 1/2" BITUMINOUS EXPANSION BOARD WHERE NEW CONCRETE PAVEMENT AND ALL OTHER CONCRETE PADS, BUILDING SLABS, FOUNDATIONS AND ANY ADJACENT CONCRETE STRUCTURES MEET.

WWF CHAIRS, SIZED AND PLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

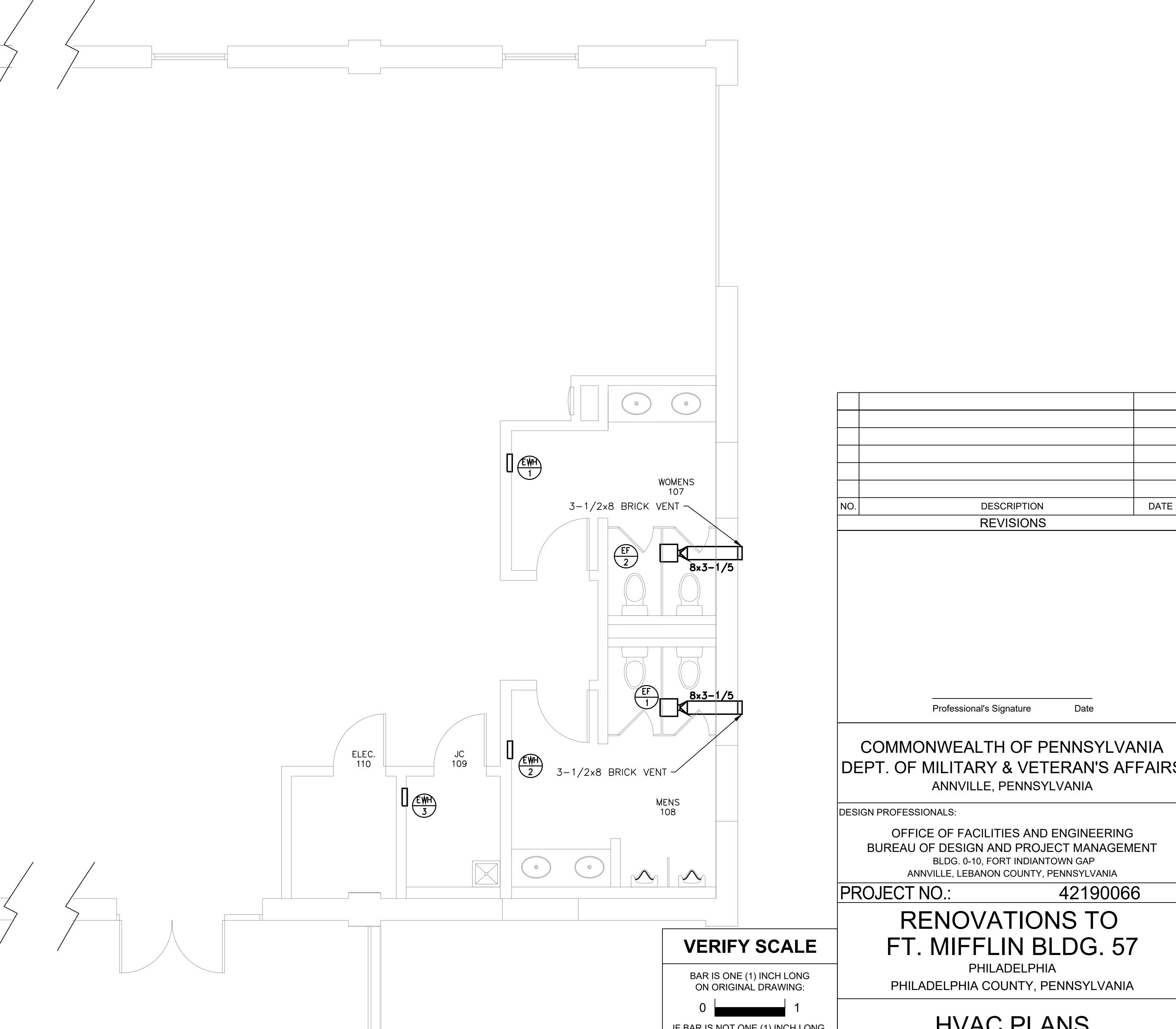
PAD THICKNESS:
10" - NEW ACCESS DRIVE TO TANK TRAIL
10" - BUILDING APRON, EAST END
6" - ALL UTILITY PADS



HVAC - FLOOR PLAN
SCALE: 1/8" = 1'-0"



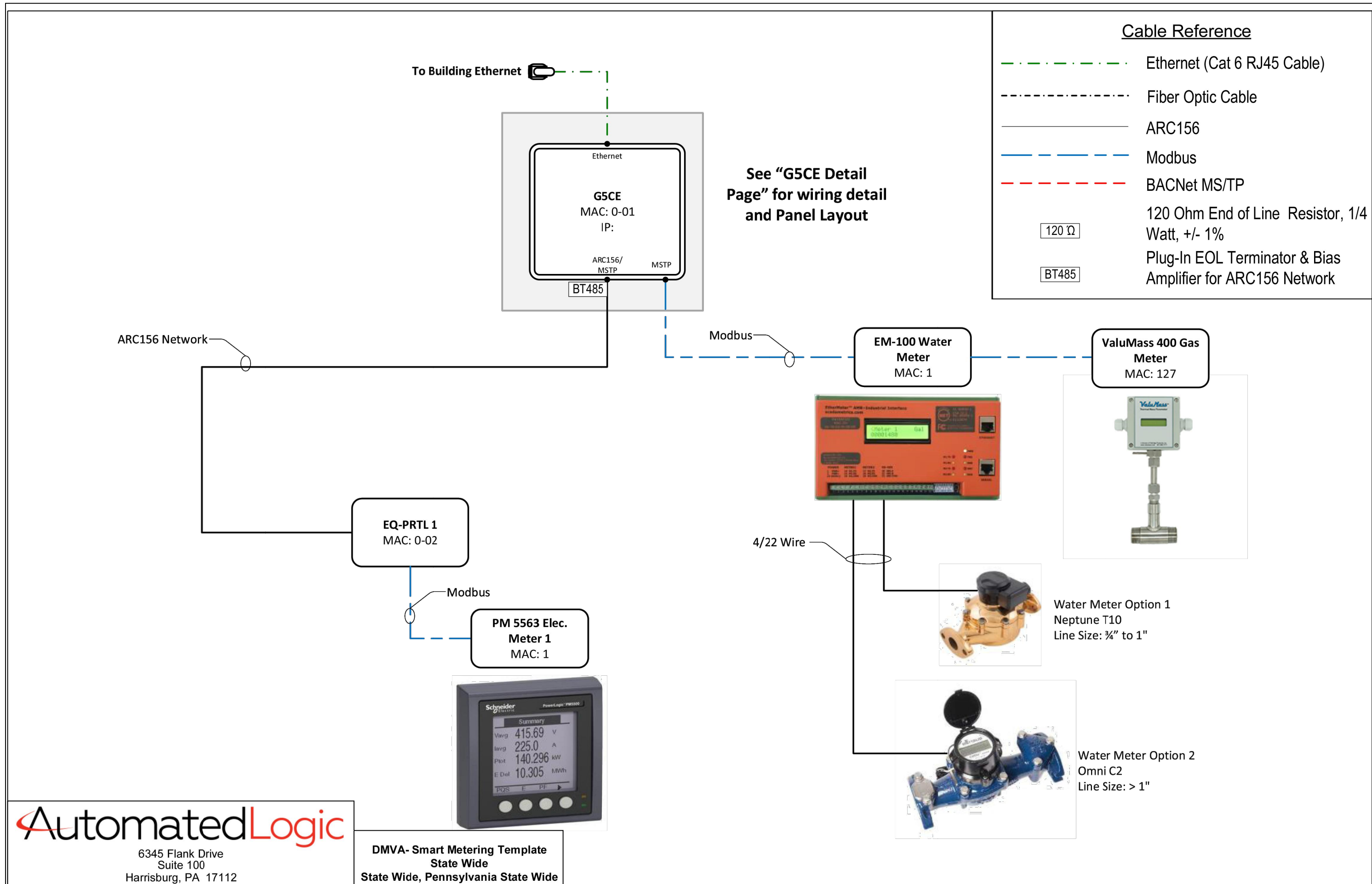
HVAC - PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



HVAC - PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

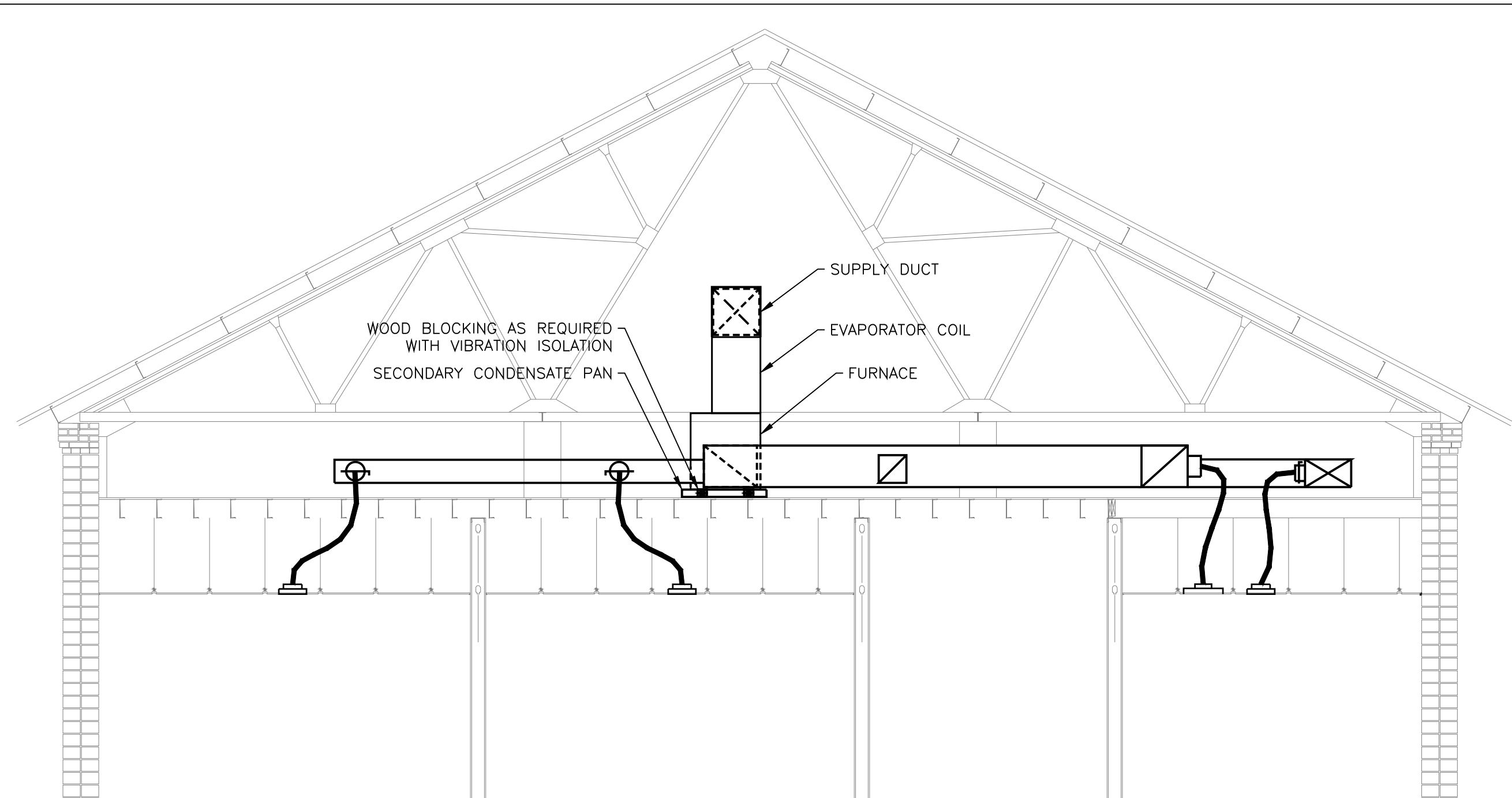
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

| NO. | DESCRIPTION | DATE |
|---|-------------|-------------|
| REVISIONS | | |
| Professional's Signature _____ Date _____ | | |
| COMMONWEALTH OF PENNSYLVANIA DEPT. OF MILITARY & VETERAN'S AFFAIRS ANNVILLE, PENNSYLVANIA | | |
| DESIGN PROFESSIONALS: OFFICE OF FACILITIES AND ENGINEERING BUREAU OF DESIGN AND PROJECT MANAGEMENT BLDG. 0-10, FORT INDIANTOWN GAP ANNVILLE, LEBANON COUNTY, PENNSYLVANIA | | |
| PROJECT NO.: | | 42190066 |
| RENOVATIONS TO FT. MIFFLIN BLDG. 57 PHILADELPHIA PHILADELPHIA COUNTY, PENNSYLVANIA | | |
| HVAC PLANS | | |
| DRAWN BY | DATE | DRAWING NO. |
| B. TOEVS | 18 MAR 2022 | H.1.1 |
| CHECKED BY | SCALE | |
| | AS NOTED | |

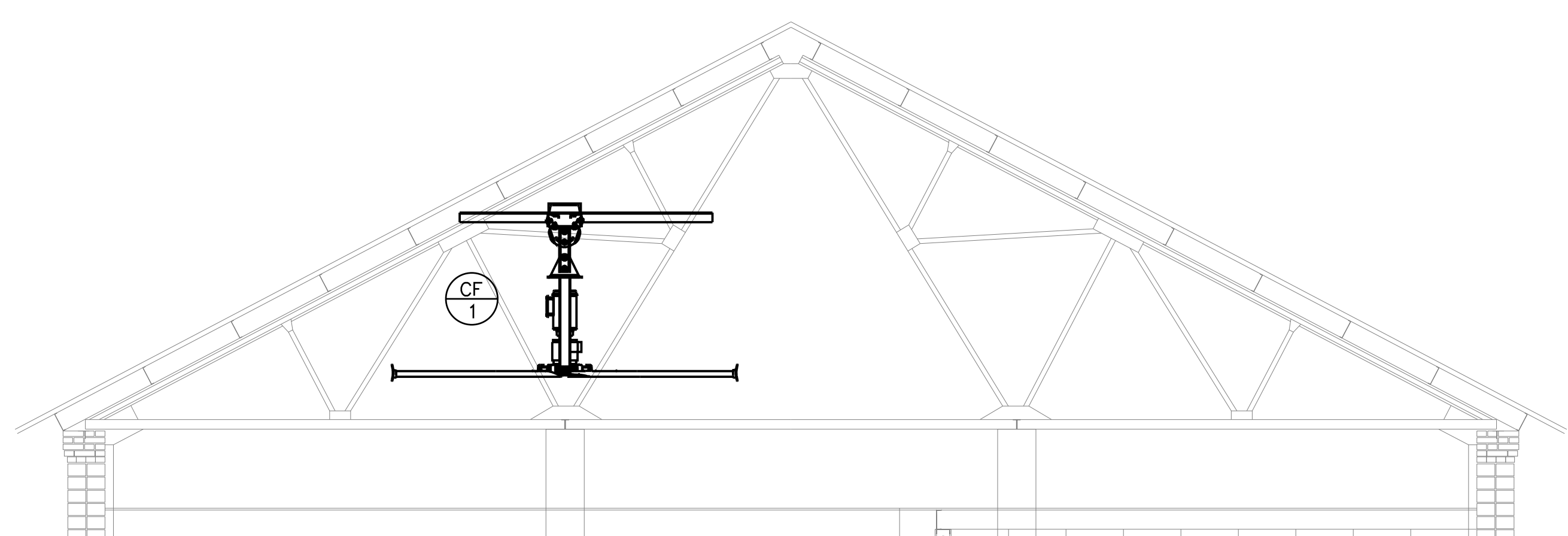


AutomatedLogic
6345 Flank Drive
Suite 100
Harrisburg, PA 17112

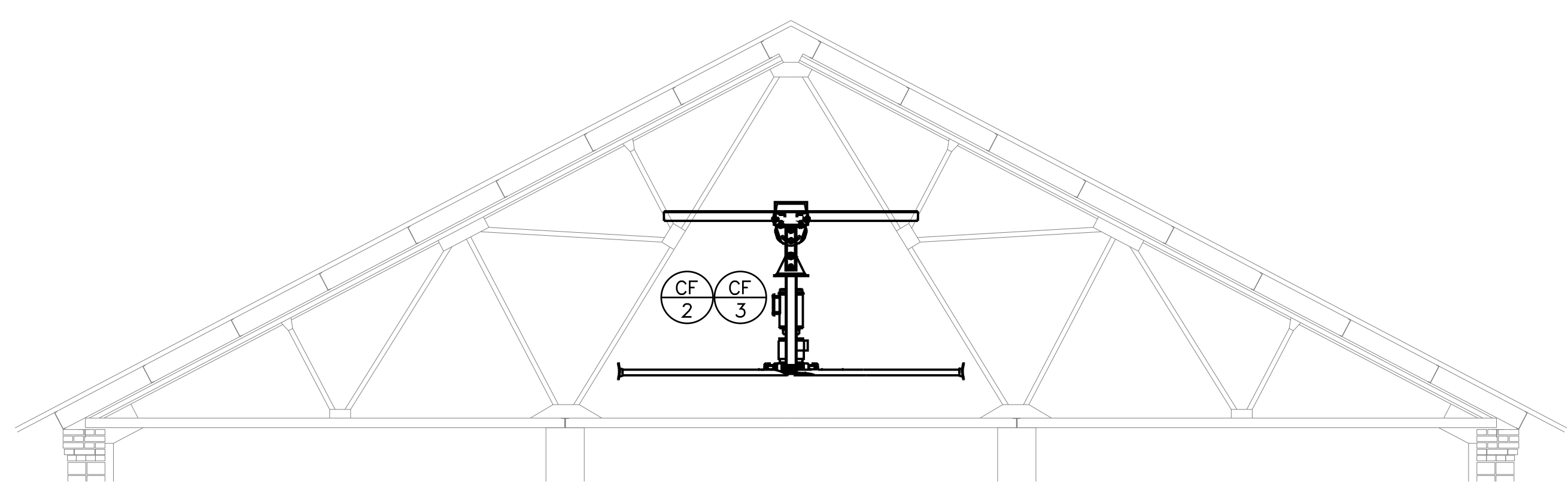
DMVA - Smart Metering Template
State Wide
State Wide, Pennsylvania State Wide



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



SECTION - 2
SCALE: 1/4" = 1'-0"



SECTION - 3
SCALE: 1/4" = 1'-0"

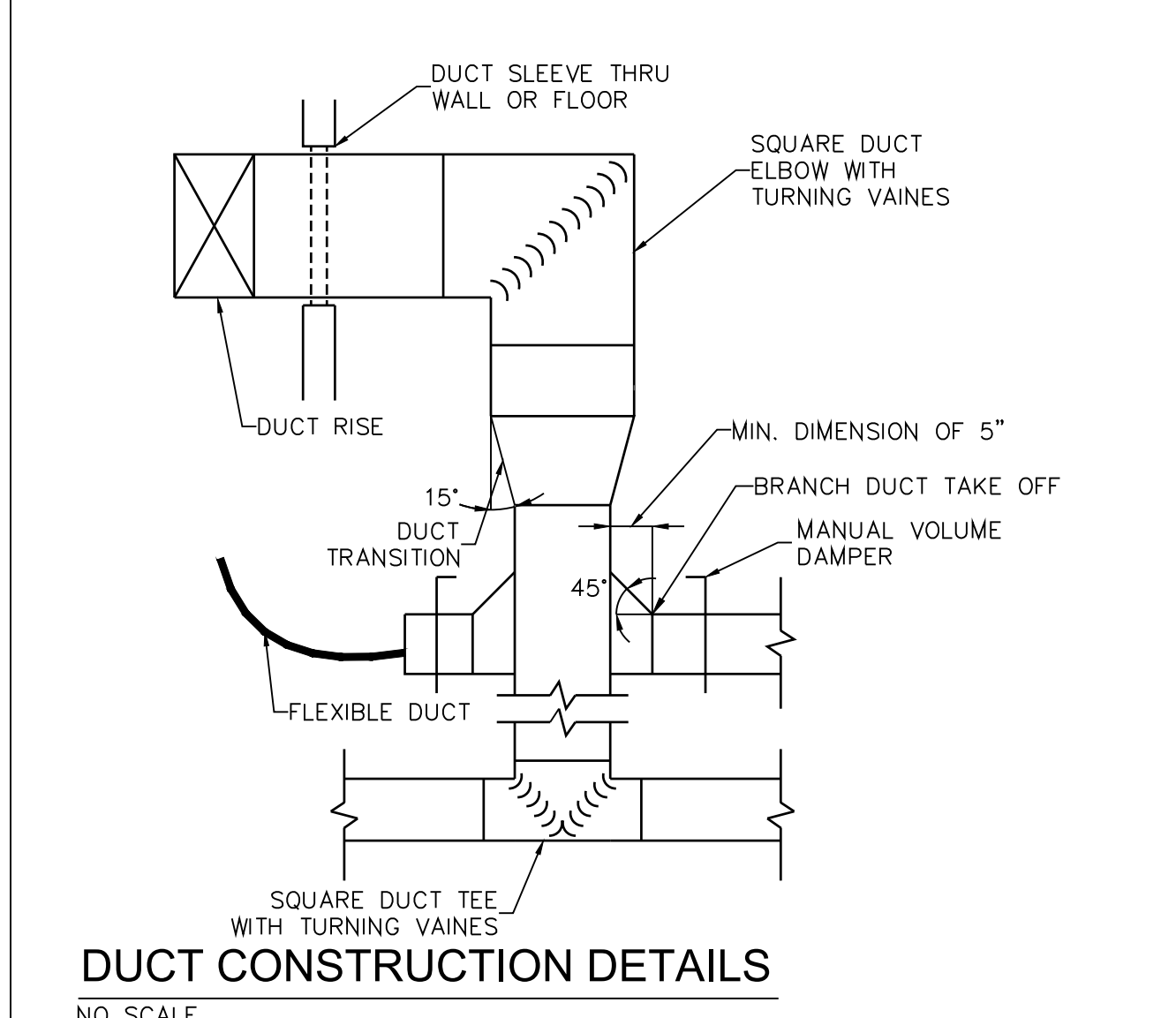
| ABBREVIATIONS | |
|---------------|--------------------------------------|
| AB | ABOVE |
| AC | AIR CONDITIONING |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHU | AIR HANDLING UNIT |
| ATC | AUTO TEMP CONTROL |
| AUTO | AUTOMATIC |
| AVG | AVERAGE |
| AWT | AVERAGE WATER TEMP. |
| BJ | BETWEEN JOISTS |
| BLDG | BUILDING |
| BEL | BELOW |
| BOT | BOTTOM |
| BTU | BRITISH THERMAL UNITS |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CAP | CAPACITY |
| CFM | CUBIC FEET PER MINUTE |
| CHWR | CHILLED WATER RETURN |
| CHWS | CHILLED WATER SUPPLY |
| CLG | CEILING |
| CO | CLEANOUT |
| CONC | CONCRETE |
| COND | CONDENSATE |
| CONN | CONNECT OR CONNECTION |
| CONT | CONTINUATION |
| CONTD | CONTINUED |
| CONTR | CONTRACTOR |
| CONV. | CONVECTOR |
| CW | COLD WATER |
| DB | DRY BULB |
| DEG | DEGREE |
| DIA | DIAMETER |
| DISCH | DISCHARGE |
| DN | DOWN |
| DPR | DAMPER |
| DR | DUCT RISER |
| DWG | DRAWING |
| DX | DIRECT EXPANSION |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EC | ELECTRICAL CONTRACTOR |
| EER | ENERGY EFFICIENCY RATING |
| EF | EXHAUST FAN |
| ELECT | ELECTRICAL |
| ESP | EXTERNAL STATIC PRESSURE |
| EW | ENTERING WATER TEMP |
| EXH | EXHAUST |
| EXIST | EXISTING |
| EXT | EXTERNAL |
| F | FARENHEIT |
| FA | FRESH AIR |
| FAI | FRESH AIR INTAKE |
| FD | FIRE DAMPER |
| FL | FLOOR |
| FLA | FULL LOAD AMPS |
| FR | FROM |
| GC | GENERAL CONTRACTOR |
| GPM | GALLONS PER MINUTE |
| HC | HEATING CONTRACTOR |
| HORZ | HORIZONTAL |
| HUH | HORIZONTAL UNIT HEATER |
| HVAC | HEATING VENTILATING AIR CONDITIONING |
| HP | HORSE POWER |
| H.P. | HIGH PRESSURE |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| HWS | HOT WATER SUPPLY |
| HZ | HERTZ |
| ID | INSIDE DIAMETER |
| IN | INCHES |
| IWC | INCHES OF WATER COLUMN |
| LAT | LEAVING AIR TEMPERATURE |
| LF | LINEAL FEET |
| LRA | LOCKED ROTOR AMPS |
| MAX | MAXIMUM |
| MBH | THOUSAND BTU'S PER HOUR |
| MCA | MINIMUM CIRCUIT AMPS |
| MECH | MECHANICAL |
| MER | MECHANICAL EQUIPMENT ROOM |
| MFC | MANUFACTURER |
| MIN | MINIMUM |
| MOD | MOTOR OPERATED DAMPER |
| MTD | MOUNTED OR MOUNTING |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NOM | NORMAL |
| NO | NUMBER |
| OA | OUTSIDE AIR |
| OPNG | OPENING |
| % | PERCENT |
| PC | PLUMBING CONTRACTOR |
| PH OR | PHASE |
| QTY | QUANTITY |
| RA | RELIEF / RETURN AIR |
| R.D. | RECESSED DEPTH |
| RD | ROUND |
| REQD | REQUIRED |
| REC. | REGISTER |
| RL | REGISTER |
| RLA | REFRIGERANT LIQUID PIPING |
| RPM | RUNNING LOAD AMPS |
| RS | REVOLUTIONS PER MINUTE |
| RS | REFRIGERANT SUCTION PIPING |
| RTN | RETURN |
| SA | SUPPLY AIR |
| SD | SMOKE DETECTOR |
| SEER | SEASONAL ENERGY EFFICIENCY RATING |
| SENS | SENSIBLE |
| SHT | SHEET |
| SP | STATIC PRESSURE |
| SS | STAINLESS STEEL |
| STAT | STANDARD |
| STD | THERMOSTAT |
| SUSP | SUSPEND OR SUSPENDED |
| SV | SAFETY VALVE |
| SW | SAFETY WASTE |
| TEMP | TEMPERATURE |
| TJ | THROUGH JOISTS |
| TOT | TOTAL |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| VAC | VACUUM |
| VERT | VERTICAL |
| VOL | VOLUME |
| VENT RISER | VENT RISER |
| VTR | VENT-THRU-ROOF |
| W | WATTS |
| W/ | WITH |
| W/B | WET BULB |
| WCO | WALL CLEANOUT |
| WP | WEATHER PROOF |

| SYMBOL LEGEND | |
|---------------|---|
| | DOUBLE LINE DUCTWORK |
| | THERMOSTAT |
| | CONTROL TRANSFORMER |
| | AIR FLOW DIRECTION |
| | MANUAL BALANCING DAMPER |
| | CEILING EXHAUST FAN |
| | SUPPLY DUCT RISER |
| | RETURN DUCT RISER |
| | EXHAUST DUCT RISER |
| | TURNING VANES |
| | 8" INSULATED FLEXIBLE DUCT |
| | REFRIGERANT PIPING |
| | MAKEUP AIR UNIT SWITCH |
| | EXHAUST FAN SWITCHES, CARBON MONOXIDE AND CARBON DIOXIDE SENSOR |
| | PIPE RISE |
| | PIPE DROP |
| | SUPPLY AIR DIFFUSER |
| | RETURN AIR CEILING REGISTER |
| | SIDEWALL SUPPLY / OR RETURN REGISTER |
| | ROOF EXHAUSTER |
| | ROOF INTAKE HOOD |
| | FIRE DAMPER |
| | ELECTRIC WALL INSERT HEATER |
| | MOTORIZED DAMPER |
| | BALL VALVE |
| | CHECK VALVE |
| | GAS COCK |
| | GATE VALVE |

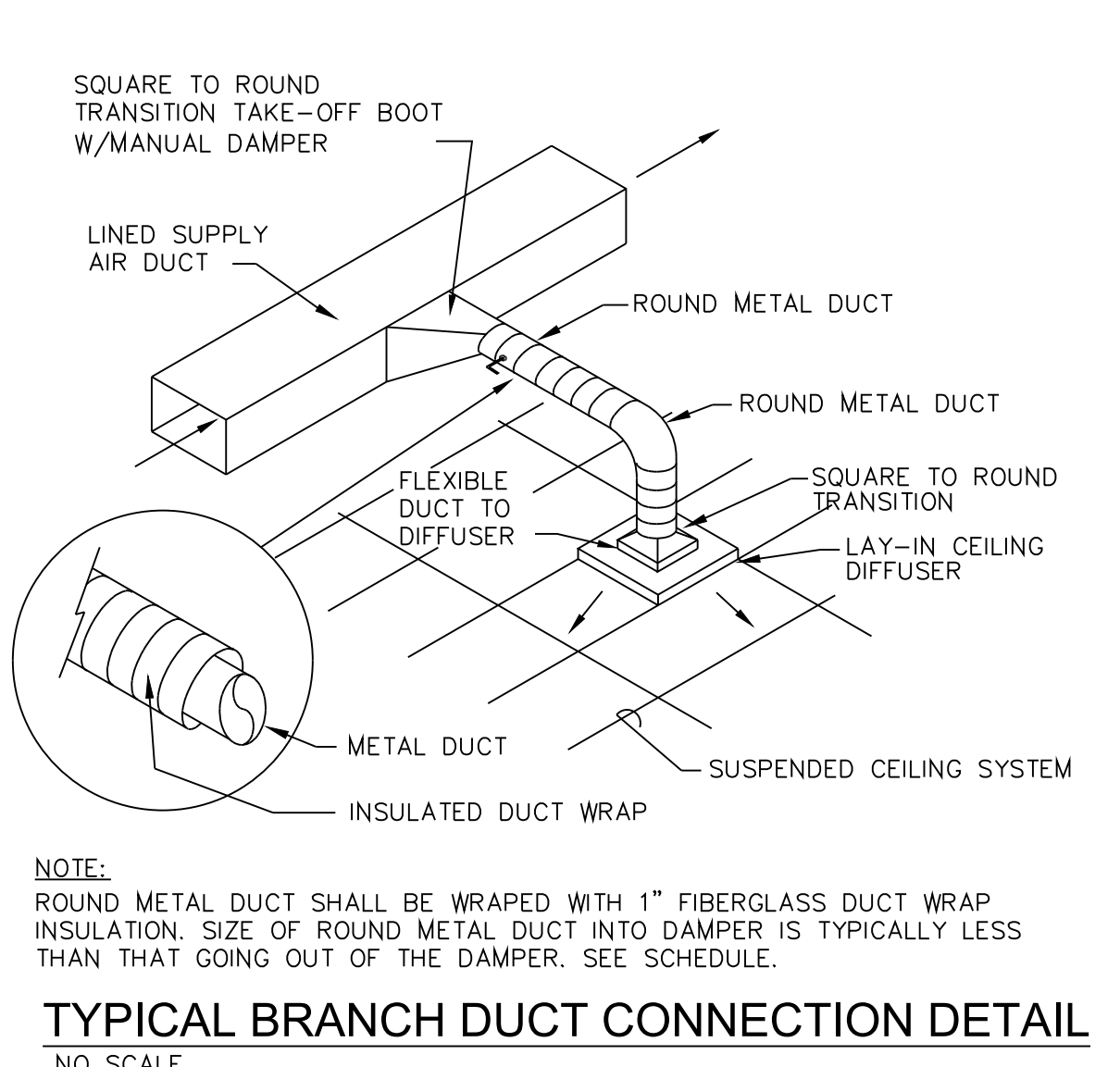
| DIFFUSER KEY | |
|--------------|---|
| QUANTITY | (2) - LCD - 12" DIA. - 50 - A TYPE OR 12"x12" |
| SYMBOL | SEE LEGEND |
| NECK SIZE | CFM |
| TYPE | A |

| LEGEND | |
|--------|-------------------------|
| SR | SUPPLY REGISTER |
| CD | CEILING DIFFUSER |
| RR | RETURN REGISTER |
| ER | EXHAUST REGISTER |
| LCD | LAY-IN CEILING DIFFUSER |
| LRR | LAY-IN RETURN REGISTER |
| LER | LAY-IN EXHAUST REGISTER |

| DIFFUSERS AND REGISTERS TYPES | |
|-------------------------------|---|
| A | TUTTLE & BAILEY MODEL AGITAIR RC |
| B | TUTTLE & BAILEY MODEL CRE500 W/TUTTLE & BAILEY MODEL A45 MOUNTING FRAME |
| C | TUTTLE & BAILEY MODEL A110 W/TUTTLE & BAILEY MODEL SDB |



DUCT CONSTRUCTION DETAILS
NO SCALE



TYPICAL BRANCH DUCT CONNECTION DETAIL
NO SCALE

BUILDING MANAGEMENT SYSTEM - CONTROLS

1. PROVIDE BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL. SYSTEM SHALL BE AUTOMATED LOGIC CONTROLS (ALC) AND BE AN EXTENSION OF THE EXISTING BASE-BUILDING MANAGEMENT SYSTEM.
2. CONTACT RANDY ROBERTSON AT ALC, 717-798-4066 BMS WILL INTERFACE TO HVAC SYSTEMS FOR REMOTE MONITORING. BMS CONTRACTOR WILL FURNISH GAS SUBMETER MODEL AL-800 AND IMAC PULSATIC TRANSMITTER (WATER SUBMETER).

| SPLIT SYSTEM AIR HANDLER SCHEDULE | | | | | | | | | | |
|-----------------------------------|--------|-----------|-----------------|---------|--------|---------------------------------|------|-------------|---|-----------|
| SYMBOL | SERVES | TOTAL CFM | ELECTRICAL DATA | | | LIQUID PROPANE GAS FURNACE DATA | | | | |
| | | | FAN MCA | VOLTAGE | INPUT | OUTPUT | AFUE | TEMP RISE | % | F MAX/MIN |
| AHU-1 | ROOMS | 1,700 | 12 | 120/1 | 120/42 | 116/40 | 98.0 | 45-75/25-55 | | |

| SPLIT SYSTEM CONDENSING UNIT SCHEDULE | | | | | | |
|---------------------------------------|-----------|--------------|----------|------|----------|------------------|
| SYMBOL | TOTAL MBH | SENSIBLE MBH | NOM TONS | EER | COND EAT | REMARKS |
| | | | | | | |
| CU-1 | 58.0 | 41.0 | 5.0 | 12.5 | 95 | 21.2 208/1/60 ①② |

- REMARKS
- 1 BASIS OF DESIGN: YORK MODEL #YP9C120D20MP12C FURNACE / #YC608215 CU / CF/CM640 COIL OR APPROVED EQUAL MOUNT AIR HANDLER ON A MAINTENANCE PAD ON THE FLOOR AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE MAINTENANCE PAD, SUPPORTS AND VIBRATION ISOLATION AS REQUIRED.
 - 2 FURNISH AND INSTALL UNIT WITH THE FOLLOWING ACCESSORIES:
 - A. CONDENSATE DRAIN WITH 2" DEEP TRAP
 - B. WEATHERPROOF DISCONNECT SWITCH FOR CU.
 - C. DISCONNECT FOR AIR HANDLER
 - D. PROVIDE WITH LOW AMBIENT KIT.
 - E. UV LIGHT

| OVERHEAD FAN SCHEDULE | | | | | | | | | | | | | |
|-----------------------|-----------------|---------|---------------|---------------|--------------|-------------------|------------|-----|-------------|------------|-------------------|---------------------|---------|
| TAG | BASIS OF DESIGN | | DIAMETER (FT) | # OF AIRFOILS | WEIGHT (LBS) | SOUND LEVEL (DBA) | MOTOR (HP) | RPM | CONTROL | VOLT/PH | FULL LOAD CURRENT | CIRCUIT SIZE (AMPS) | REMARKS |
| | MFG. | MODEL | | | | | | | | | | | |
| CF-1,2,3 | BIG ASS FANS | BASIC 6 | 14 | 6 | 192 | <55 | 1.5 | 191 | ONBOARD VFD | 200-240V/3 | 9.0 | 15 | 1-4 |

- REMARKS:
1. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING
 2. FAN TO BE TIED INTO FIRE SUPPRESSION SYSTEM
 3. PROVIDED WITH BARCON CONTROLLER
 4. FACTORY WARRANTY EQUAL TO 7 YEARS MECHANICAL, 3 YEARS ELECTRICAL, 1 YEAR LABOR. SEE THE COMPLETE WARRANTY FOR MORE DETAILS.

| DUCTLESS A/C FAN COIL UNIT SCHEDULE (ARI CAPACITIES) | | | | | | | | | | | | | | |
|--|-----------------|-------------|--------------|--------------|-------------|-----------------------|--------------|-------------|-----------------------|-----------|----------|----------------------------|--|---------|
| SYMBOL | BASIS OF DESIGN | | SUPPLY FAN | | | COOLING CAPACITY DATA | | | HEATING CAPACITY DATA | | | ELECTRICAL CHARACTERISTICS | | REMARKS |
| | MFG. | MODEL NO. | TOTAL C.F.M. | TOTAL M.B.H. | E.A.T. D.B. | W.B. | TOTAL M.B.H. | E.A.T. D.B. | W.B. | FUSE AMPS | VOLTAGE | | | |
| FC-1 | YORK | DHP18NWB215 | 471 | 20.0 | 80 | 67 | 23.4 | 70 | 70 | 3.15 | 208/60/1 | 1 | | |

- REMARKS
- 1 PROVIDE LITTLE GIANT VCMA-15 SERIES CONDENSATE PUMP

| ELECTRIC WALL HEATER SCHEDULE | | | | | | | | | | | | |
|-------------------------------|---------------|-----------------|-----------|------|------------|--------|-------------|---------|------|-----------------|--|---------|
| SYMBOL | LOCATION | BASIS OF DESIGN | | TYPE | BTU OUTPUT | C.F.M. | TOTAL WATTS | VOLTAGE | AMPS | MOUNTING HEIGHT | UNIT DIMENSIONS DEPTH X WIDTH X HEIGHT | REMARKS |
| | | MFG. | MODEL NO. | | | | | | | | | |
| EW-1,2,3 | RESTROOM / JC | QMARK | CW11510S | SM | 2560 | 65 | 750 | 120V-1ø | 6.25 | 18" | 4" x 9" x 11" | 1 |

- REMARKS
- 1 UNIT SHALL BE PROVIDED WITH SELF CONTAINED THERMOSTAT, BUILT-IN POWER DISCONNECT, FAN DELAY AND COMMERCIAL GRADE STEEL GRILLE. TYPE SM = SURFACE MOUNT

| EXHAUST FAN SCHEDULE | | | | | | | | | | | |
|----------------------|-------------|-----------------|-----------|------|--------|--------|-----------|---------|-----------------|--|---------|
| SYMBOL | SERVING | BASIS OF DESIGN | | TYPE | C.F.M. | E.S.P. | FAN MOTOR | | ELECTRICAL DATA | | REMARKS |
| | | MFG. | MODEL NO. | | | | M.O.P. | VOLTAGE | | | |
| EF-1,2 | TOILET ROOM | GREENHECK | SP-A90 | C | 100 | 0.10 | 15 | 115V-1ø | | | 1 2 |

- REMARKS
- 1 PROVIDE WITH INTERNAL BACKDRAFT DAMPER, DISCONNECT SWITCH, HANGING ISOLATORS AND SQUARE TO ROUND DUCT TRANSITION.
 - 2 PROVIDE WITH GREENHECK MODEL 5WSSC SPEED CONTROL (OR APPROVED EQUAL) FOR BALANCING TO SCHEDULED CFM. TYPE C = CEILING TYPE

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |
| | | |

Professional's Signature _____ Date _____
COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

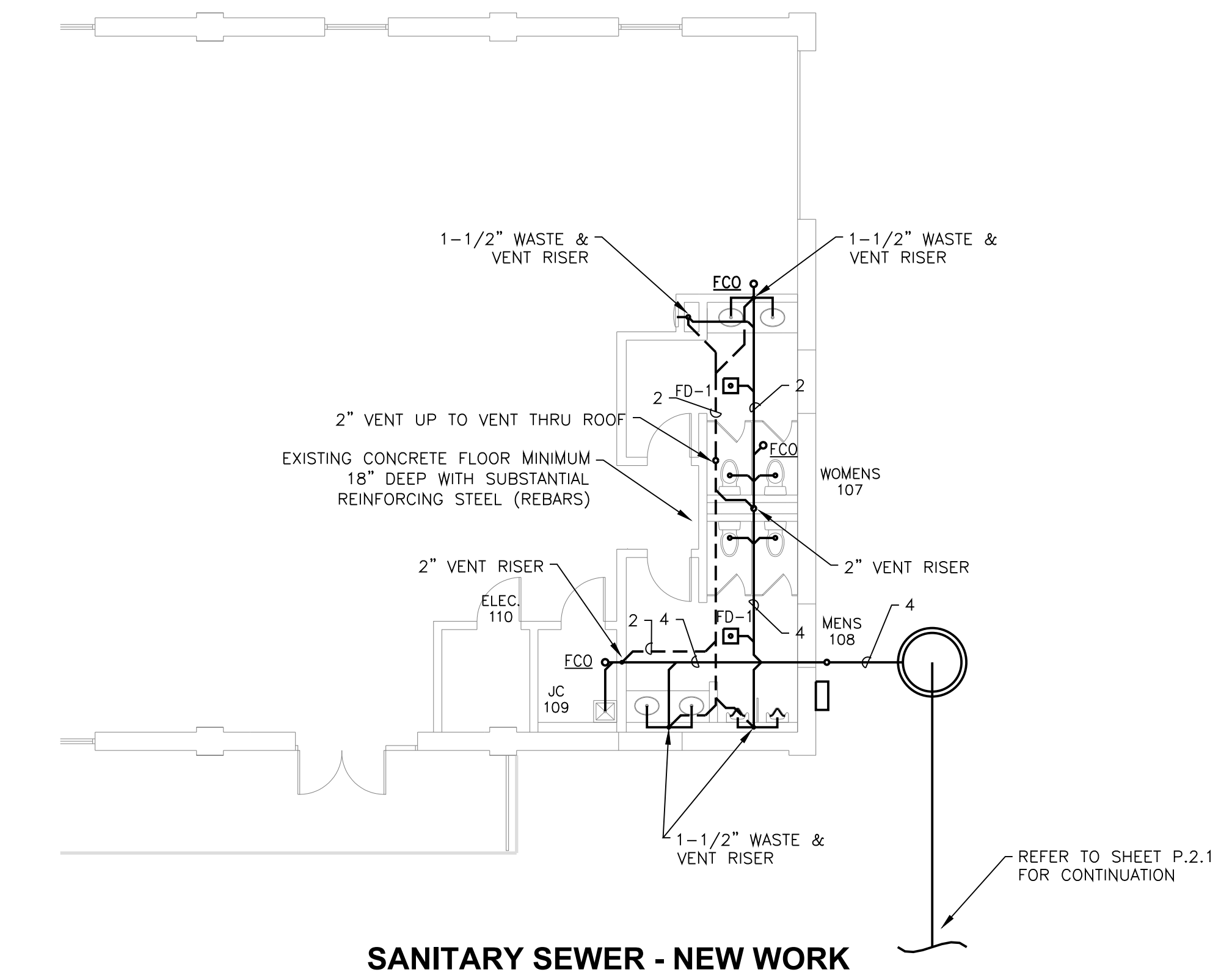
PROJECT NO.: 42190066

RENOVATIONS TO FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

HVAC DETAILS

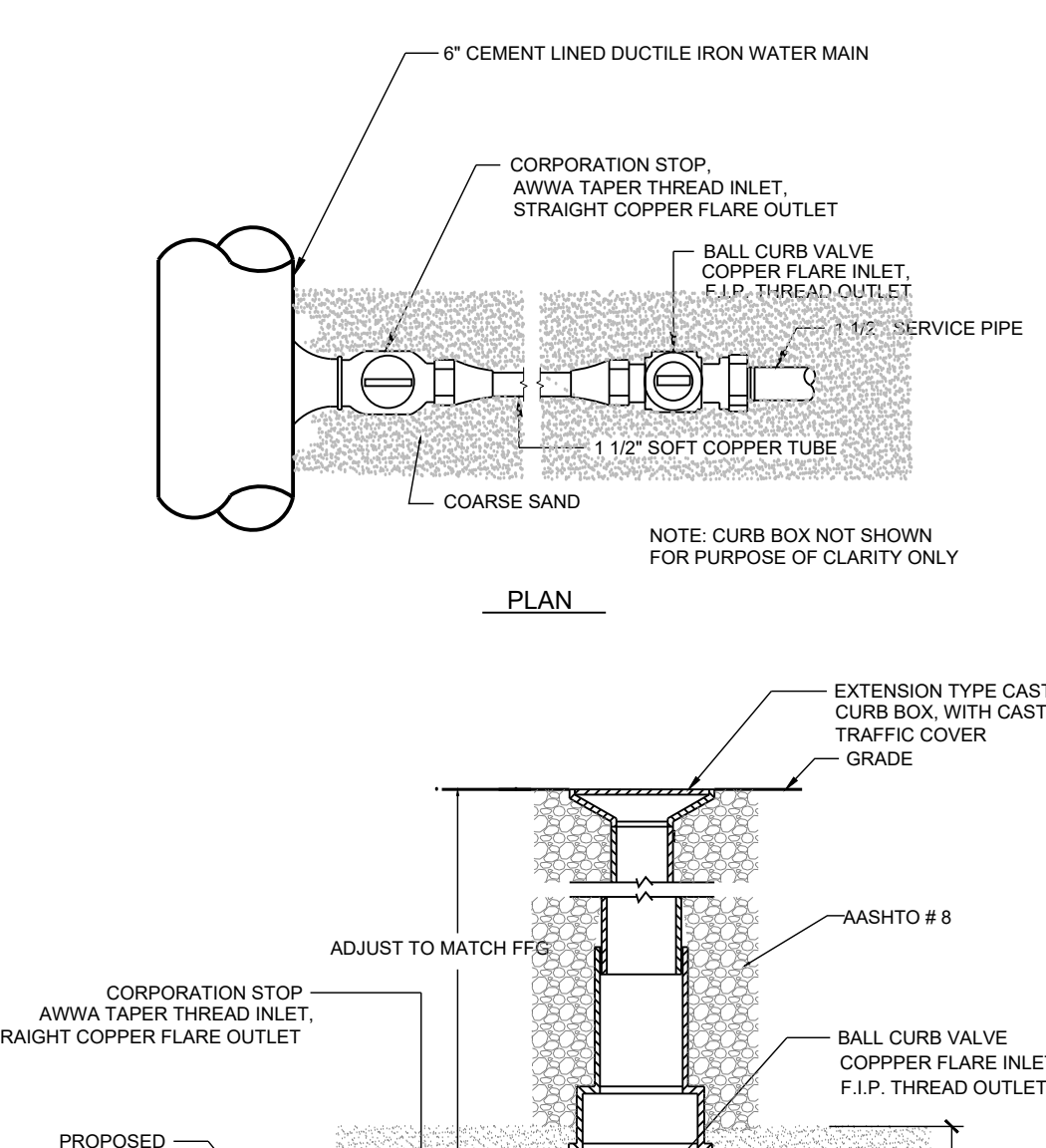
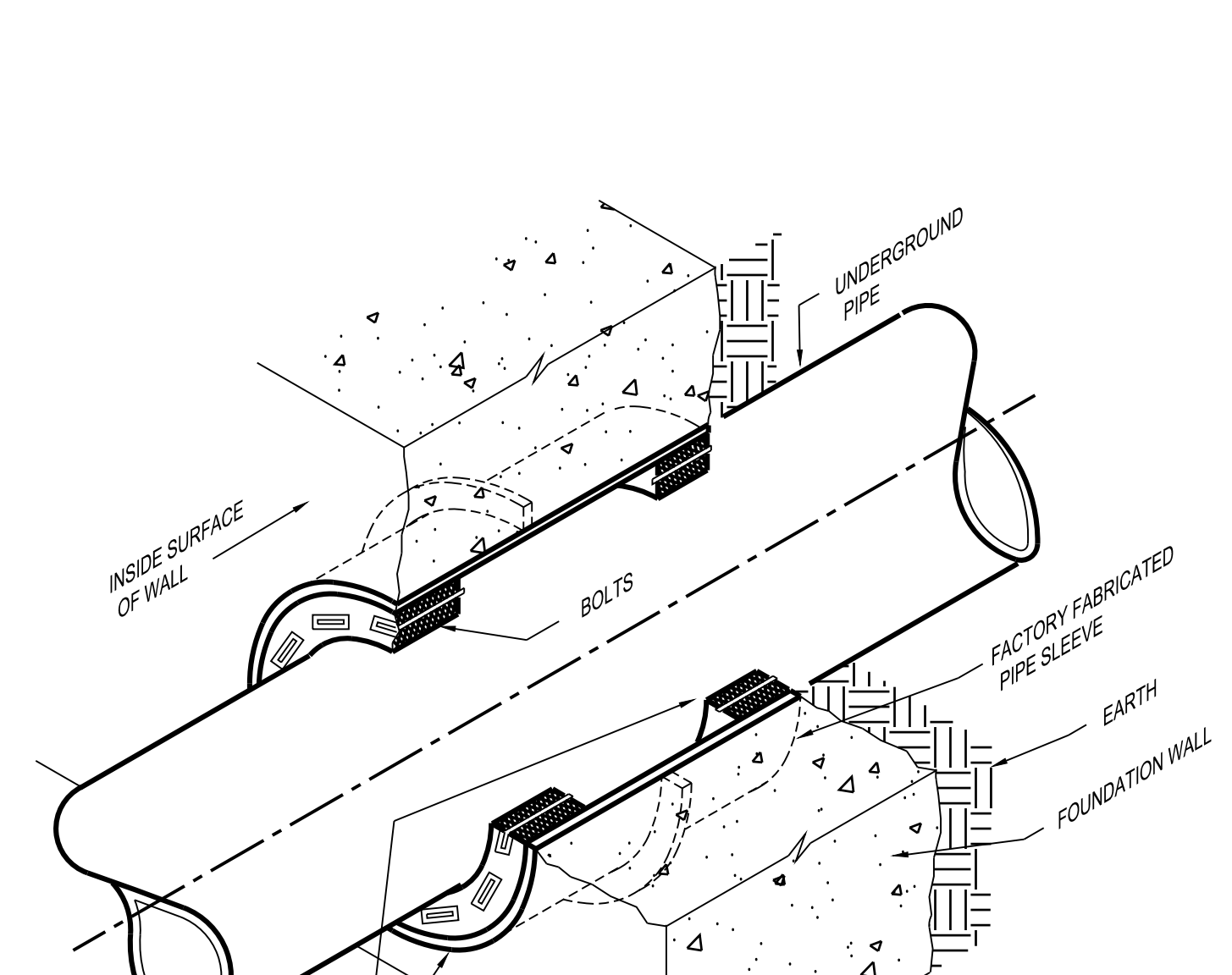
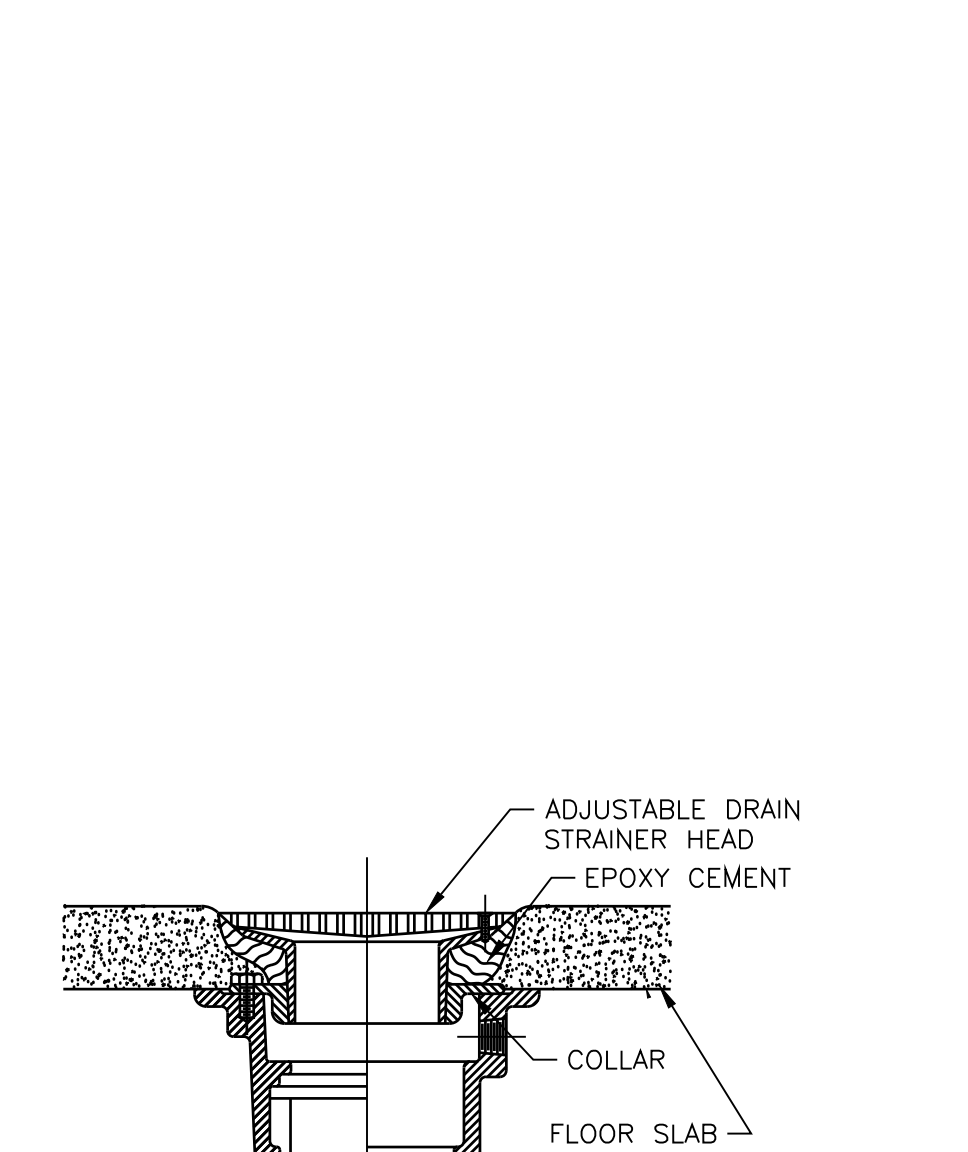
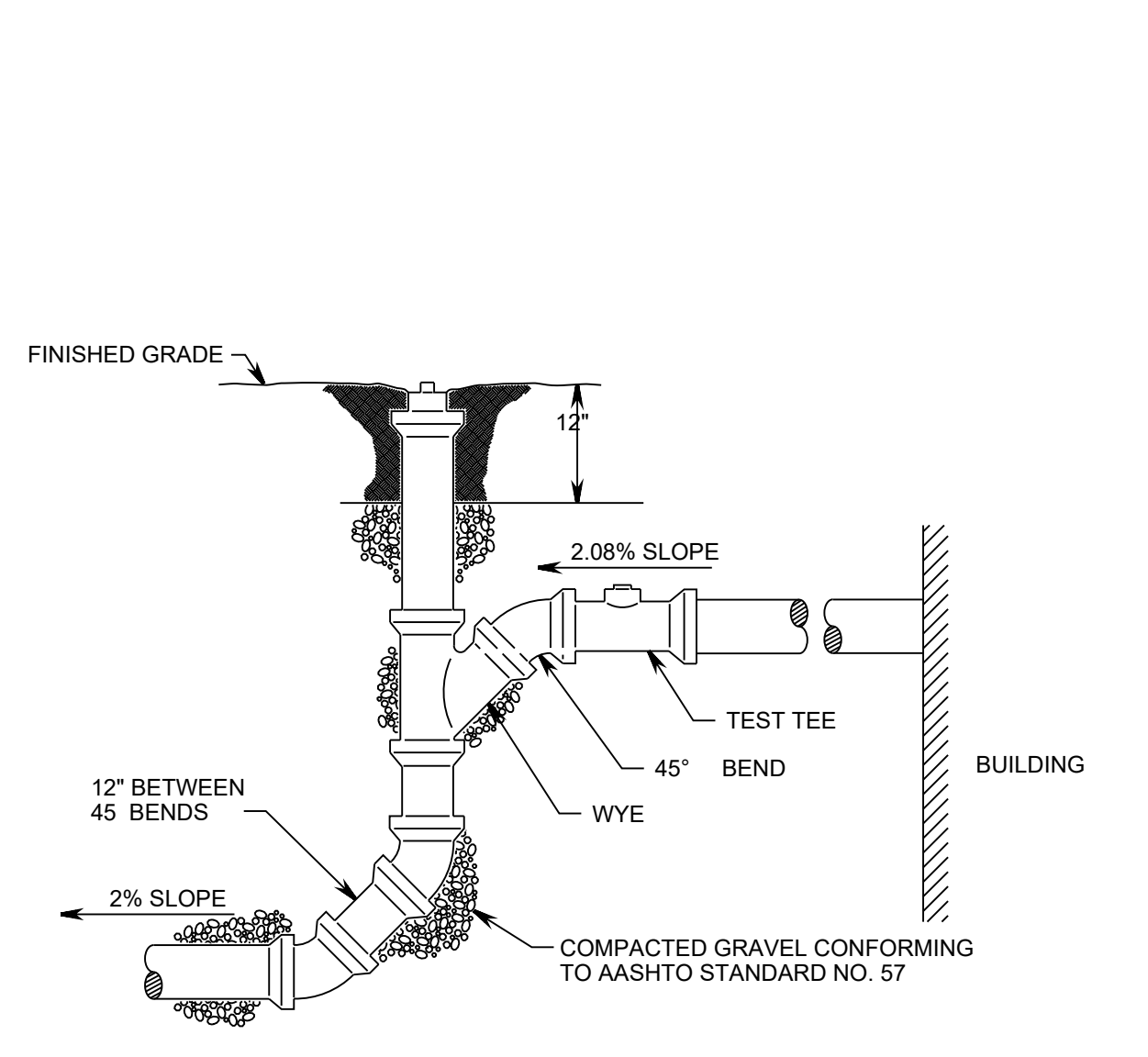
| DRAWN BY | DATE | DRAWING NO. |
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| B. TOEVS | 18 MAR 2022 | H.2.1 |
| CHECKED BY | SCALE | AS NOTED |

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.



DOMESTIC WATER - NEW WORK
SCALE: 1/8" = 1'-0"

SANITARY SEWER - NEW WORK
SCALE: 1/8" = 1'-0"



| WATER HEATER SCHEDULE | | | | | | | | | | | |
|-----------------------|-----------------|----------------------|-----|------------------|-------------------|-------------------|-------------------|------------------|------------|--------------|---------|
| SYMBOL | BASIS OF DESIGN | | KW | TOTAL AMP (DRAW) | TEMP RISE 0.5 GPM | TEMP RISE 1.0 GPM | TEMP RISE 1.5 GPM | WATER CONN. | ELECTRICAL | | REMARKS |
| | MANUFACTURER | MODEL | | | | | | | VOLTS | BREAKER SIZE | |
| WH-1 | EEMAX | ACCUMIX II AM010240T | 9.5 | 48.0 | 105' OUTPUT | 65° | 43° | 3/8" COMPRESSION | 240 | 2 x 40AMP | 1 |

REMARKS
1 PROVIDE AND INSTALL WITH SERVICE VALVES AND CONCENTRIC WALL TERMINATION KIT.

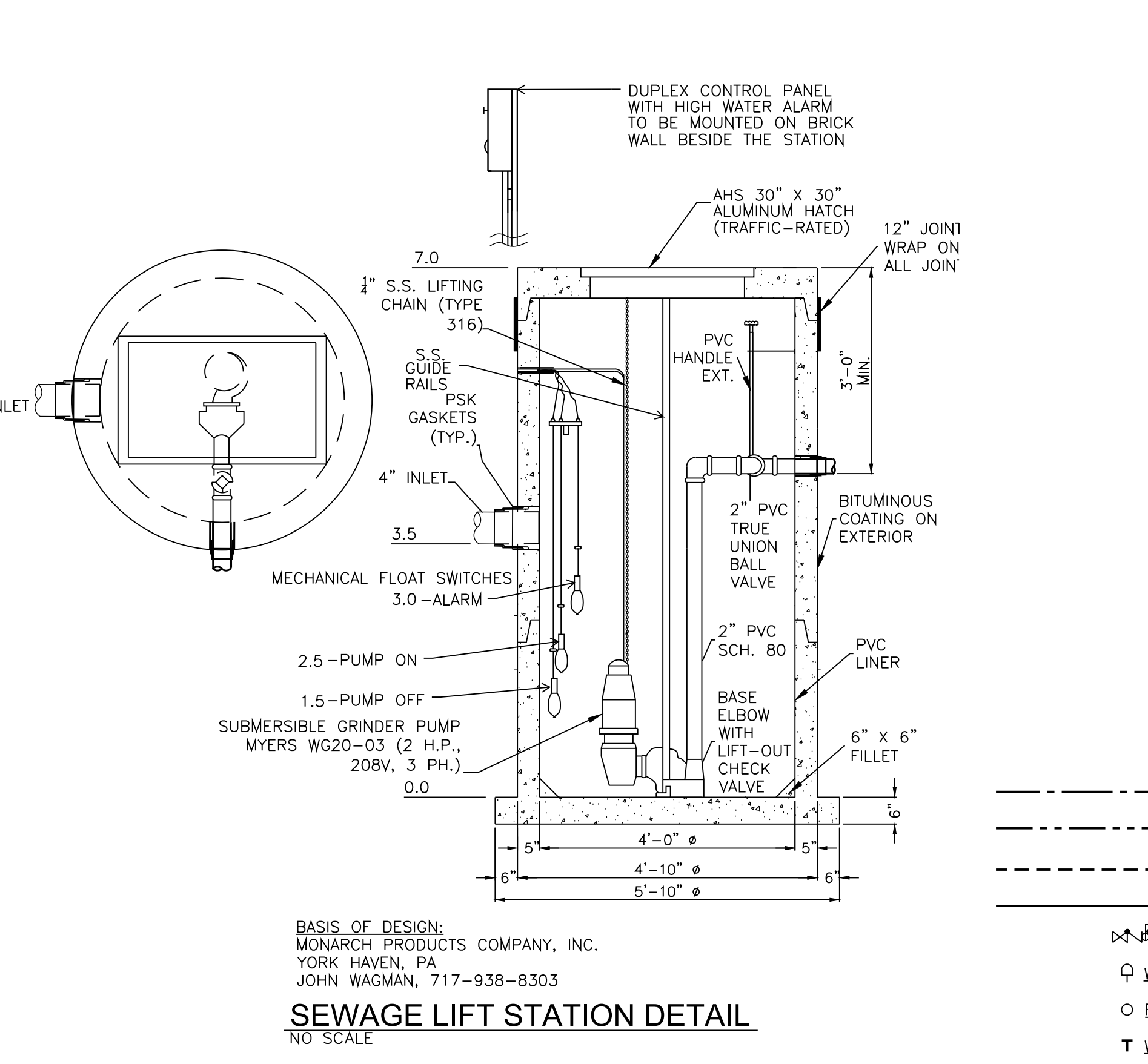
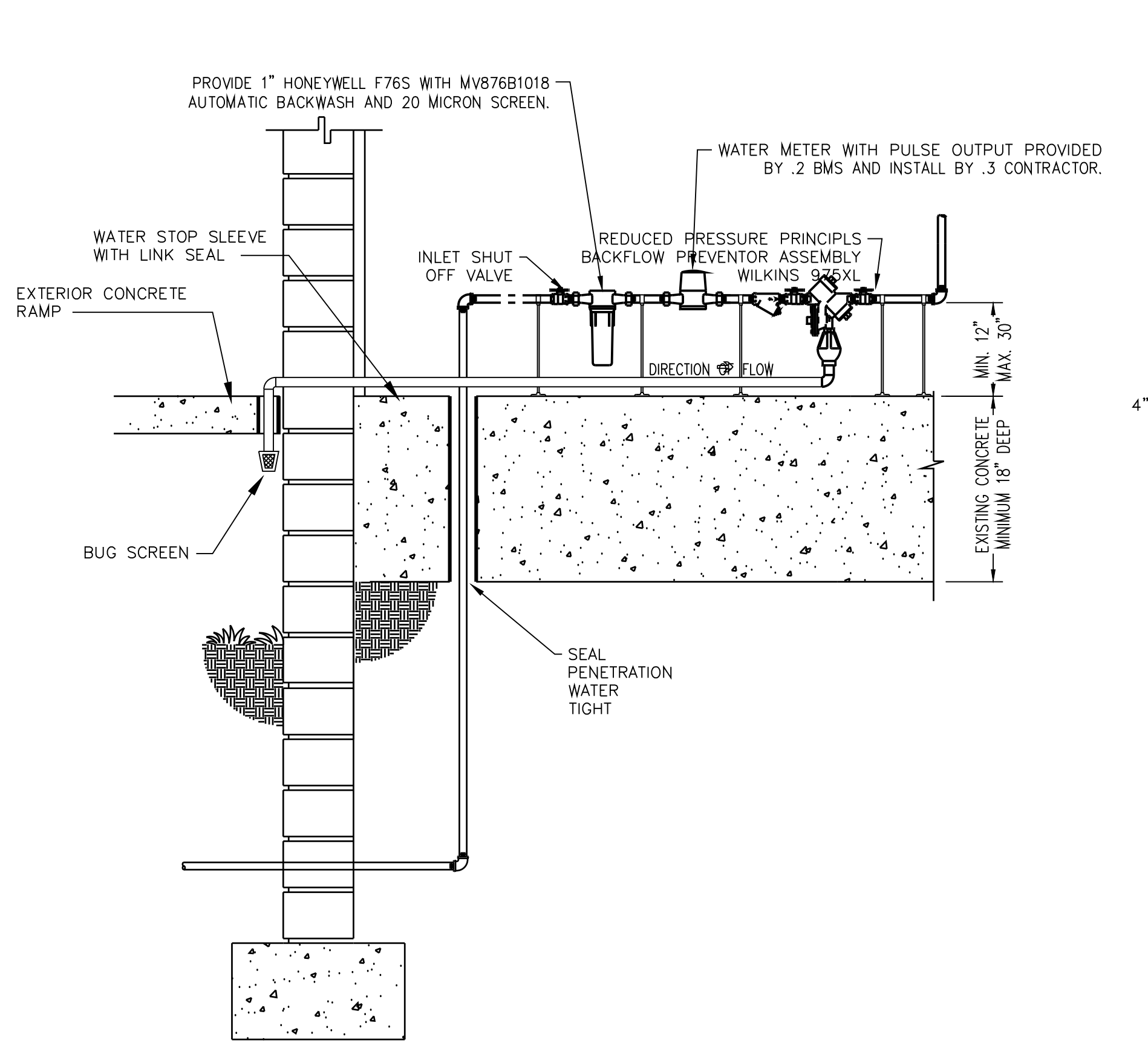
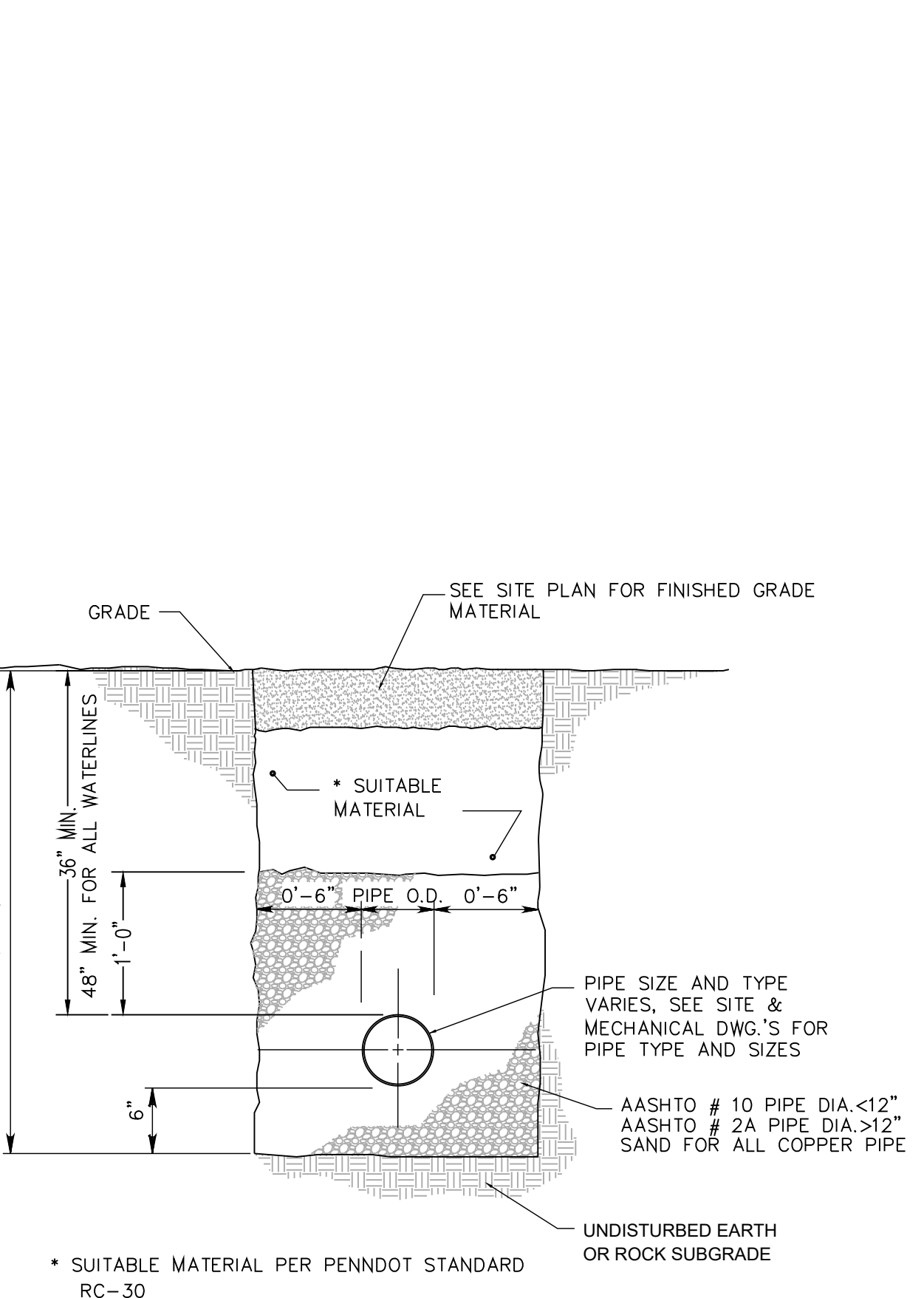
| PLUMBING FIXTURE SCHEDULE | | | | | | | | | | |
|---------------------------|---------------------------|---|------|------|----------|--------|----------|------------|---------|--|
| SYMBOL | FIXTURE DESCRIPTION | BASIS OF DESIGN | C.W. | H.W. | SAN | VENT | MOUNTING | RIM HEIGHT | REMARKS | |
| P-1 | ADA - WATER CLOSET - TANK | AMERICAN STANDARD CADET PRO RIGHT HEIGHT ELONGATED TOILET 1" ROUGH 3517A.101 BOWL 4188B.104 TANK, BEMS 1955SCT SEAT BRASS CRAFT CS40101 X C SUPPLY KIT | 1/2" | - | 3" | 2" | FLOOR | 16-1/2" | | |
| P-2 | URINAL | AMERICAN STANDARD 65990.001 WASHBROOK FLOWISE UNIVERSAL URINAL 6590.001 UNIVERSAL TOP SPUD ZURN Z176203-ULF FLUSH VALVE ZURN Z1222-Z CARRIER | 3/4" | - | 2" | 2" | WALL | ADA | | |
| P-4 | LAVATORY | AMERICAN STANDARD 0476.028 AQUALIN COUNTER TOP SINK 0476.028 4" FAUCET HOLES MOEN: CHATEAU L4601 SERIES ZURN ZB745-PC PLUG TAIL PIECE ZURN P-TRAP WITH WALL BEND ZB701-9-PC-B TRUEBRO LAY GUARDZ #102 E-Z WATTS LFUSG-B-M2 UNDERSINK GUARDIAN | 1/2" | 1/2" | 1-1/2" | 1-1/4" | COUNTER | --- | | |
| P-5 | MOP RECEPTOR | FIAT WSB2424 CHICAGO FAUCET 897-RCF ZURN Z1996-HH HOSE & BRACKET ZURN Z1996-HH MOP HANGER | 3/4" | 3/4" | 3" | 1-1/2" | FLOOR | 26-1/4" | | |
| P-6 | BOTTLE FILLING STATION | ELKAY MODEL NO. E2WSMDX | 3/4" | 3/4" | 3" | 1-1/2" | WALL | 26-1/4" | | |
| FD-1 | FLOOR DRAIN | ZURN Z415-5B-P ZURN ZSHIELD BARRIER TRAP SEAL DEVICE Z1072 | --- | --- | 2" OR 4" | --- | FLOOR | --- | | |
| HB-1 | HOSE BIBB | WOODFORD MFG. MODEL 24C | 1/2" | --- | --- | --- | WALL | 24" | | |
| FFHB-1 | FROST FREE HOSE BIBB | WOODFORD MFG. MODEL 17 8"x1/2" | 1/2" | --- | --- | --- | WALL | 24" | | |

NOTES
1. PLUMBER SHALL CUT THE VERTICAL RISER AT THE REQUIRED ELEVATION TO SERVICE THE FIRST FLOOR AND INSTALL A WYE, A 45 DEGREE FITTING, AND TEST TEE. THE VERTICAL RISER SHALL THEN BE EXTENDED TO SURFACE GRADE AND PLUGGED TO SERVE AS A CLEANOUT.
2. THE LATERAL RISER PIPE AND FITTINGS SHALL BE OF THE SAME MATERIAL AS THE MAIN SEWER TO THE POINT WHERE THE PLUMBER CUTS THE VERTICAL RISER. PVC PIPE AND FITTINGS MAY THEN BE USED FOR THE HOUSE LATERAL.

NOTE:
CONTRACTOR SHALL CORE DRILL THE FLOOR AND GRIND A FOUR (4) SQUARE FOOT AREA AROUND NEW FLOOR DRAINS. SET NEW FLOOR DRAINS IN A BED OF EPOXY CEMENT. RECESSING FLOOR DRAINS 1/2" BELOW THE FLOOR ELEVATION.

NOTE: CURB BOX NOT SHOWN FOR PURPOSE OF CLARITY ONLY

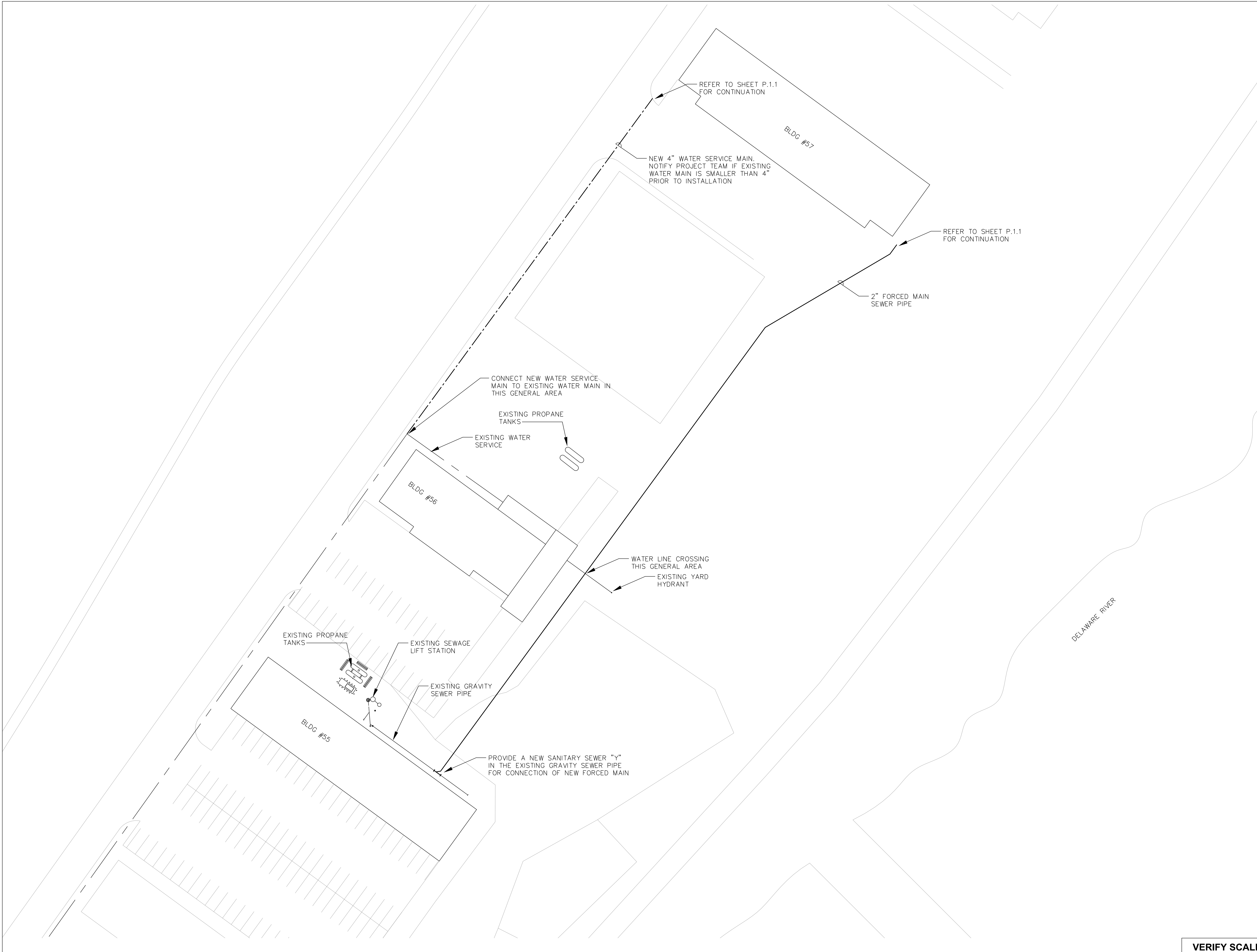
NOTE: CURB BOX NOT SHOWN FOR PURPOSE OF CLARITY ONLY



| NO. | DESCRIPTION | DATE |
|---|-------------|-------------|
| REVISIONS | | |
| Professional's Signature _____ Date _____ | | |
| COMMONWEALTH OF PENNSYLVANIA DEPT. OF MILITARY & VETERAN'S AFFAIRS ANNVILLE, PENNSYLVANIA | | |
| DESIGN PROFESSIONALS: OFFICE OF FACILITIES AND ENGINEERING BUREAU OF DESIGN AND PROJECT MANAGEMENT BLDG. 0-10, FORT INDIANTOWN GAP ANNVILLE, LEBANON COUNTY, PENNSYLVANIA | | |
| PROJECT NO.: | 42190066 | |
| RENOVATIONS TO FT. MIFFLIN BLDG. 57 PHILADELPHIA PHILADELPHIA COUNTY, PENNSYLVANIA | | |
| PLUMBING PLAN & DETAILS | | |
| DRAWN BY | DATE | DRAWING NO. |
| B. TOEVS | 18 MAR 2022 | P.1.1 |

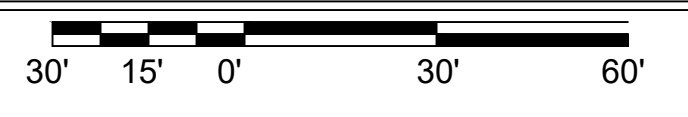
| VERIFY SCALE | |
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| BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING. | 0 1 |
| IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY. | |

| SYMBOLS LEGEND | |
|------------------------|---------------------|
| (CW) COLD WATER | ○ PIPE RISE |
| (HW) HOT WATER | ⊖ PIPE DROP (ELBOW) |
| (V) VENT | ⊘ PIPE DROP (TEE) |
| (SAN) SANITARY | ⊘ SHUT-OFF VALVE |
| RPZ BACKFLOW PREVENTER | ⊘ PIPE BREAK |
| WATER HAMMER ARRESTOR | ⊘ FLOOR DRAIN |
| FLOOR CLEAN OUT | |
| WALL CLEAN OUT | |



EXISTING SITE PLAN

SCALE: 1" = 30'
SCALE IN FEET



| NO. | DESCRIPTION | DATE |
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Professional's Signature _____ Date _____

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA

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PROJECT NO.: 42190066

**RENOVATIONS TO
FT. MIFFLIN BLDG. 57**
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

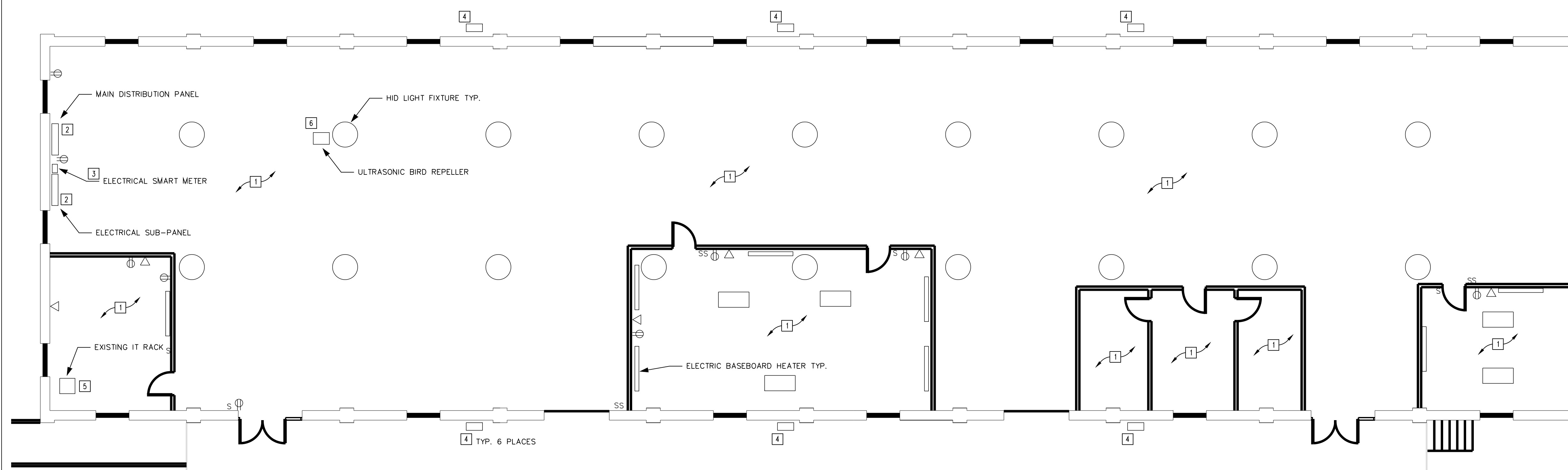
PLUMBING SITE PLAN

VERIFY SCALE

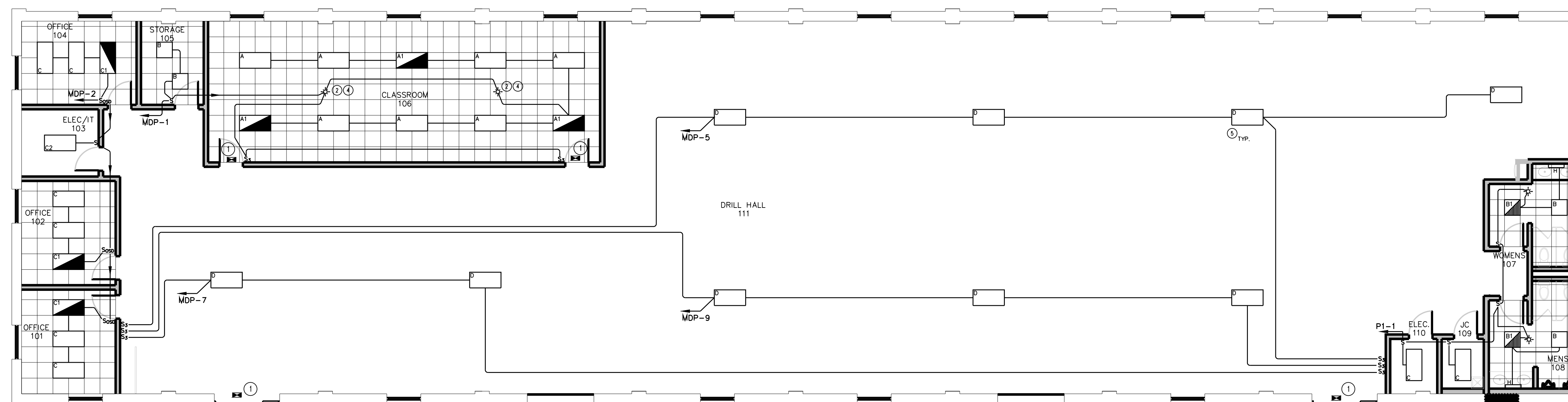
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| DRAWN BY B. TOEVS | DATE 18 MAR 2022 | DRAWING NO. P.2.1 |
| CHECKED BY | SCALE AS NOTED | |



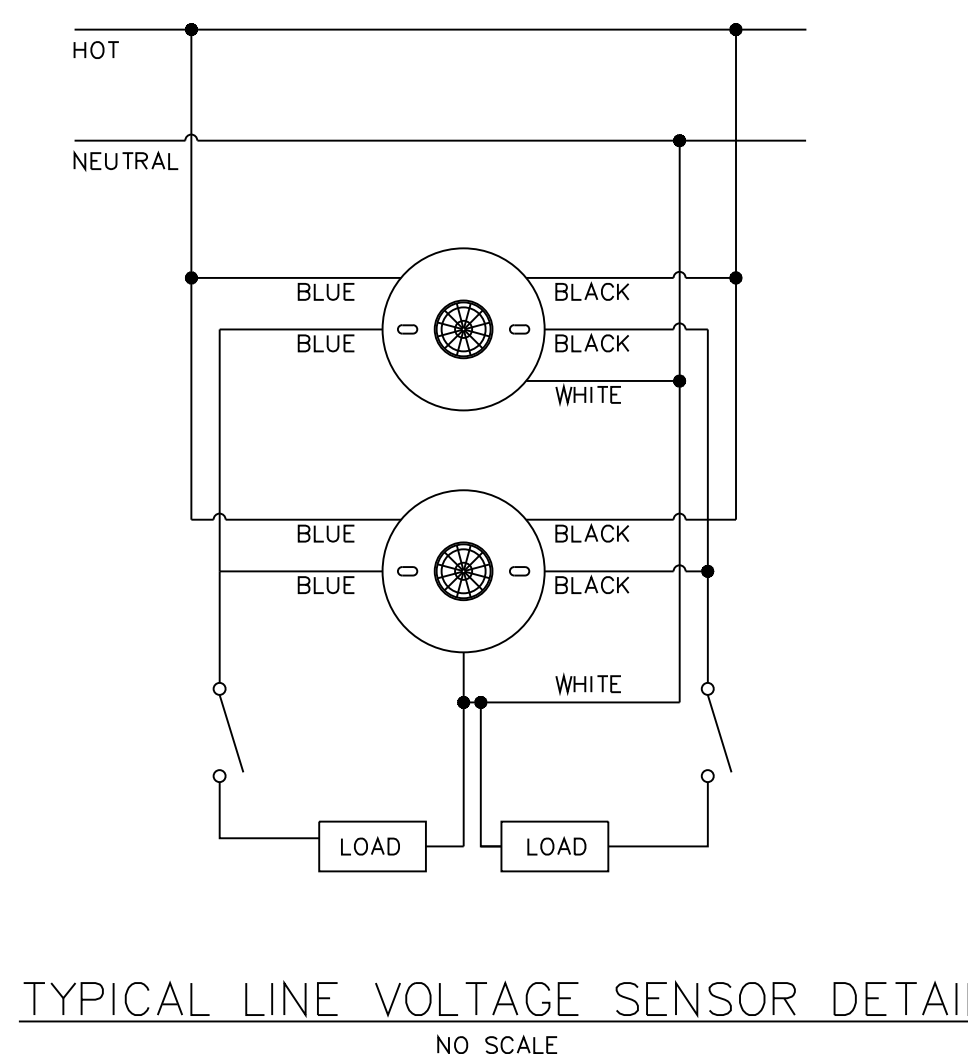
DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|----------------------------|-----------------|-----------|-----------|--|-------------|-------------|------|---------|
| I.D. | DESCRIPTION | MANUFACTURER | | | CAT. NO. | LAMPS | MTG. | WATT | REMARKS |
| | | BASIS OF DESIGN | ALTERNATE | ALTERNATE | | | | | |
| A | 2'x4' LED | COLUMBIA | LITHONIA | COOPER | LJT24-40MLG-FSA12125-EDU | 4800 L LED | RECESSED | 38W | |
| A1 | 2'x4' LED | COLUMBIA | LITHONIA | COOPER | LJT24-40MLG-FSA12125-EDU-ELL14 | 4800 L LED | RECESSED | 38W | |
| B | 2'x2' LED | COLUMBIA | LITHONIA | COOPER | LJT22-40VWG-FSA12125-EDU | 1443 L LED | RECESSED | 13W | |
| B1 | 2'x2' LED | COLUMBIA | LITHONIA | COOPER | LJT22-40VWG-FSA12125-EDU-ELL14 | 1443 L LED | RECESSED | 13W | NOTE 1 |
| B2 | 2'x2' LED | COLUMBIA | LITHONIA | COOPER | LJT22-40VWG-FSA12125-EDU | 1440 L LED | RECESSED | 13W | NOTE 7 |
| C | 2'x4' LED | COLUMBIA | LITHONIA | COOPER | LJT24-40MVG-FSA12125-EDU | 3950 L LED | RECESSED | 31W | |
| C1 | 2'x4' LED | COLUMBIA | LITHONIA | COOPER | LJT24-40MVG-FSA12125-EDU-ELL14 | 3950 L LED | RECESSED | 31W | NOTE 1 |
| C2 | 2'x4' LED | COLUMBIA | LITHONIA | COOPER | LJT24-40MWM-FSA12125-EDU | 3950 L LED | CABLE MOUNT | 31W | |
| D | 4' ENCLOSED LED | COLUMBIA | LITHONIA | COOPER | CLB4-40MX-W-EDU | 35000 L LED | CABLE MOUNT | 241W | |
| F1 | SURFACE MOUNT LED, WL | FAIL-SAFE | LITHONIA | COOPER | TRR11-LD4-10W-40-CL-WH-UNV-EDC1-ELS5W/CSTG | 825 L LED | SURFACE | 15W | NOTE 7 |
| G | LED WALL BRACKET | LUMARK | LITHONIA | HUBBELL | AXCS2ARL | LED ARRAY | SURFACE | 21W | NOTE 7 |
| G1 | LED NORM/EM WALL BRACKET | LUMARK | LITHONIA | HUBBELL | AXCS2ARL-CBP | LED ARRAY | SURFACE | 21W | NOTE 7 |
| H | 2' WALLMOUNT LED | COLUMBIA | LITHONIA | COOPER | CWM2-40LWSM-FRWA-EU | 2430 L LED | SURFACE | 21W | |
| H1 | 2' WALLMOUNT LED | COLUMBIA | LITHONIA | COOPER | CWM2-40LWSM-FRWA-EU-ELL14 | 2430 L LED | SURFACE | 21W | NOTE 7 |
| J | 2'x4' LED ZERO PLENUM | COLUMBIA | LITHONIA | COOPER | LZPT24-40LWSM-LSRS-EDU | 4500 L LED | RECESSED | 43W | NOTE 7 |
| J1 | 2'x4' LED ZERO PLENUM | COLUMBIA | LITHONIA | COOPER | LZPT24-40LWSM-LSRS-EDU-ELL14 | 4500 L LED | RECESSED | 43W | NOTE 7 |
| J2 | 2'x4' LED ZERO PLENUM | COLUMBIA | LITHONIA | COOPER | LZPT24-40VWG-LSRS-EDU | 3500 L LED | RECESSED | 33W | NOTE 7 |
| J3 | 2'x4' LED ZERO PLENUM | COLUMBIA | LITHONIA | COOPER | LZPT24-40VWG-LSRS-EDU-ELL14 | 3500 L LED | RECESSED | 33W | NOTE 7 |
| J4 | 2'x2' LED ZERO PLENUM SURF | COLUMBIA | LITHONIA | COOPER | LZPT22-40VWG-LSRS-EDU | 2000 L LED | RECESSED | 18W | NOTE 7 |
| K | LED STAIRWELL | COLUMBIA | LITHONIA | COOPER | ESL4-40VW-FAW-EDU-ELL14-NXOS | 3320 L LED | SURFACE | 27W | NOTE 7 |
| L | LED EXIT | DUAL LITE | SURELITES | LITHONIA | EVEURWEI | LED | SURFACE | 2.1W | NOTE 1 |
| M | EMERGENCY LIGHTING UNIT | LITHONIA | SURELITES | DUALLITE | QVEC50N-12V-I-0 | ----- | SURFACE | 13W | NOTE 7 |

NOTE:
1. PROVIDE EMERGENCY BATTERY PACK. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES. THE AREA MUST BE ON THE SAME CIRCUIT.
2. XX
3. XX
4. XX
5. XX
6. XX
7. NOT USED THIS PROJECT



TYPICAL LINE VOLTAGE SENSOR DETAIL
NO SCALE

LIGHTING PLAN NOTES:

- EXTEND AND CONNECT EMERGENCY BATTERY FOR EMERGENCY LIGHTING UNITS, EXITS AND EMERGENCY LED LIGHTING TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES.
- LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, 2 POLE, SENSOR/SWITCH #QMR-PD1-9-2P OR APPROVED EQUAL.
- EXIT LIGHT SHALL ONLY INDICATE EXIT IN THE DIRECTION INDICATED BY THE ARROW.
- CEILING MOUNTED OCCUPANCY SENSORS IN CLASSROOM AREA SHALL BE CONNECTED FOR PARALLEL OPERATION OF FIXTURES IN CLASSROOM.
- LIGHTING FIXTURES IN THE DRILL HALL SHALL BE MOUNTED FOURTEEN (14) FEET ABOVE FINISHED FLOOR.

DEMOLITION PLAN NOTES:

- ALL EXISTING ELECTRICAL OUTLETS, DEVICES, LIGHTING FIXTURES, SWITCHES, AND DATA OUTLETS SHALL BE REMOVED FROM THIS AREA UNO. REMOVE ALL EXISTING CONDUIT, WIRE, AND BOXES DOWN TO ORIGINAL CONSTRUCTION BACK TO POINT OF SERVICE.
- THE EXISTING MAIN DISTRIBUTION PANEL AND SUB-PANEL SHALL BE REPLACED. SEE DRAWING E.1.2 FOR LOCATIONS OF NEW PANELS AND FOR PANEL SCHEDULES.
- THE EXISTING METER (POWERLOGIC PM5500) SHALL BE REMOVED AND REPLACED WITH A NEW POWERLOGIC 5560 METER NEAR THE NEW MAIN DISTRIBUTION PANEL. SEE DRAWING E.1.2 FOR LOCATION.
- THE EXISTING EXTERIOR LIGHTING FIXTURES AND CONTROLS SHALL REMAIN IN PLACE AND BE RE-CIRCUITED TO THE NEW MAIN DISTRIBUTION PANEL. INDICATE THE NEW CIRCUIT ON THE NEW PANEL SCHEDULE.
- THE EXISTING IT RACK SHALL BE REMOVED AND RETAINED. THE IT RACK SHALL BE RE-INSTALLED IN THE NEW ELECTRICAL/IT ROOM (ROOM 103) AS INDICATED ON SHEET E.1.5.
- THE EXISTING BIRD REPELLER(S) SHALL BE REMOVED.

GENERAL NOTES FOR ALL ELECTRICAL DEMOLITION PLANS

- WHEN A DEVICE IS REMOVED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CIRCUITING TO UPSTREAM OR DOWNSTREAM DEVICES TO REMAIN FOR FULL OPERATION. WHEN A "CIRCUIT" IS TO BE REMOVED, THE CIRCUIT SHALL BE REMOVED ONLY IF THE PARTICULAR DEVICES ARE THE ONLY ITEMS ON THE CIRCUIT. IF THERE ARE OTHER DEVICES OR EQUIPMENT ON THE CIRCUIT, ONLY THE DEVICE OR EQUIPMENT SHALL BE REMOVED. MAINTAIN CIRCUITRY TO REMAINING DEVICES AS REQUIRED.
- IN GENERAL, ALL DEVICES, OUTLETS, CONDUIT, WIRING, LIGHTING FIXTURES, AND EQUIPMENT ARE TO BE REMOVED UNLESS NOTED OTHERWISE (UNO).
- ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR UNO AND SHALL BE REMOVED FROM THE PROJECT SITE IN A LEGAL MANNER AFTER DMVA HAS RECEIVED THE FIRST RIGHT OF REFUSAL. ALL MATERIALS SPECIFIED TO BE TURNED OVER TO DMVA PERSONNEL SHALL BE IN THE CONDITION IN WHICH THEY WERE PRIOR TO REMOVAL.
- CONDUIT SYSTEMS AND WIRING MAY BE RE-USED IF THEY ARE IN EXCELLENT CONDITION, OF THE PROPER SIZE AND RATING, AND IN PROXIMITY TO WHERE THEY ARE NEEDED. OTHERWISE, UNLESS NOTED TO REMAIN, SHALL BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR ALL CIRCUITING ON THE NEW WORK PLANS WHETHER UTILIZING EXISTING OR PROVIDING NEW. ALL CIRCUITING MUST BE MODERN THHN/THWN, CU CONDUCTOR BUILDING WIRE IN EMT CONDUIT IN ORDER TO BE RE-USED, OTHERWISE, IT MUST BE REPLACED. CABLE IS NOT ALLOWED UNO.
- IN GENERAL, SYMBOLS INSIDE A BOX REPRESENT SURFACE MOUNTED DEVICES. SYMBOLS WITHOUT A BOX REPRESENT FLUSH MOUNTED DEVICES. WHEN A DEVICE IS INDICATED TO BE REMOVED, ALL ASSOCIATED ACCESSIBLE CONDUIT, SURFACE METAL RACEWAY, WIRING, AND BOXES SHALL BE REMOVED BACK TO SOURCE. PROVIDE BLANK COVERS FOR FLUSH MOUNTED BOXES IF NOT RE-USED.
- WHEN ELECTRICAL EQUIPMENT IS TO BE REMOVED, THE E.C. SHALL REMOVE ALL CONDUIT, WIRE, HANGERS, SUPPORTS, BOXES, ETC. BACK TO SOURCE.
- IN GENERAL, ITEMS TO BE REMOVED ARE DASHED, AND THOSE THAT ARE TO BE RE-CONNECTED AND/OR REMAIN ARE LIGHT AND SOLID.

| NO. | DESCRIPTION | DATE |
|-----------|-------------|------|
| REVISIONS | | |

Professional's Signature _____ Date _____

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
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DESIGN PROFESSIONALS:
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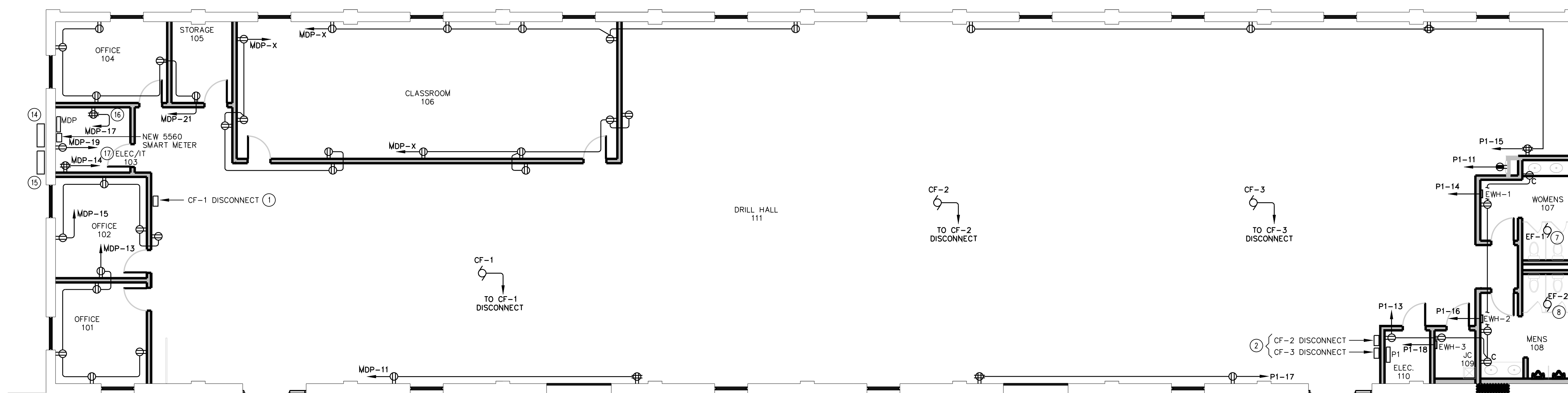
PROJECT NO.: 42190067

RENOVATIONS TO
FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

DEMO & LIGHTING PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
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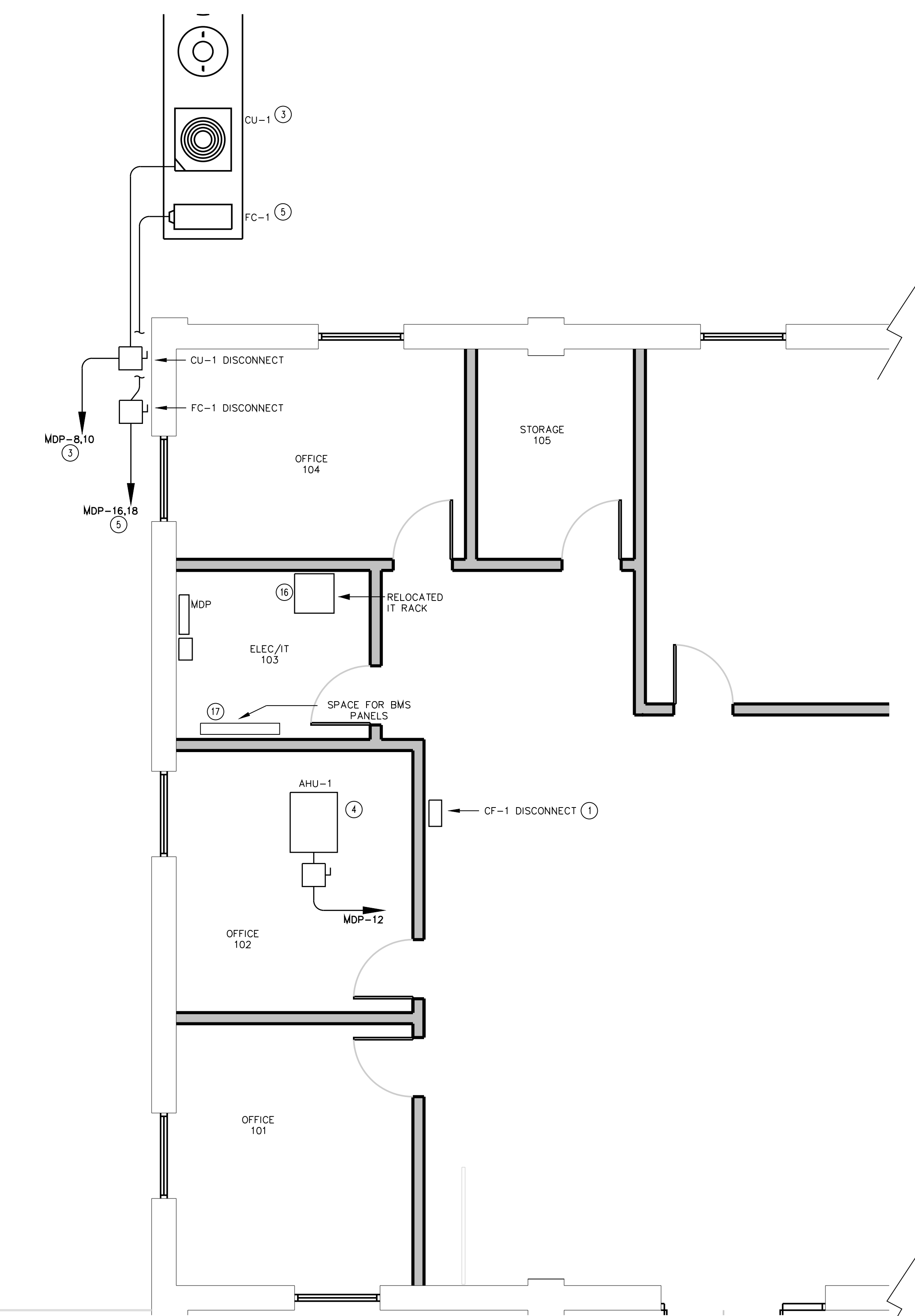
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| CHECKED BY B. BARGER | SCALE AS NOTED | |



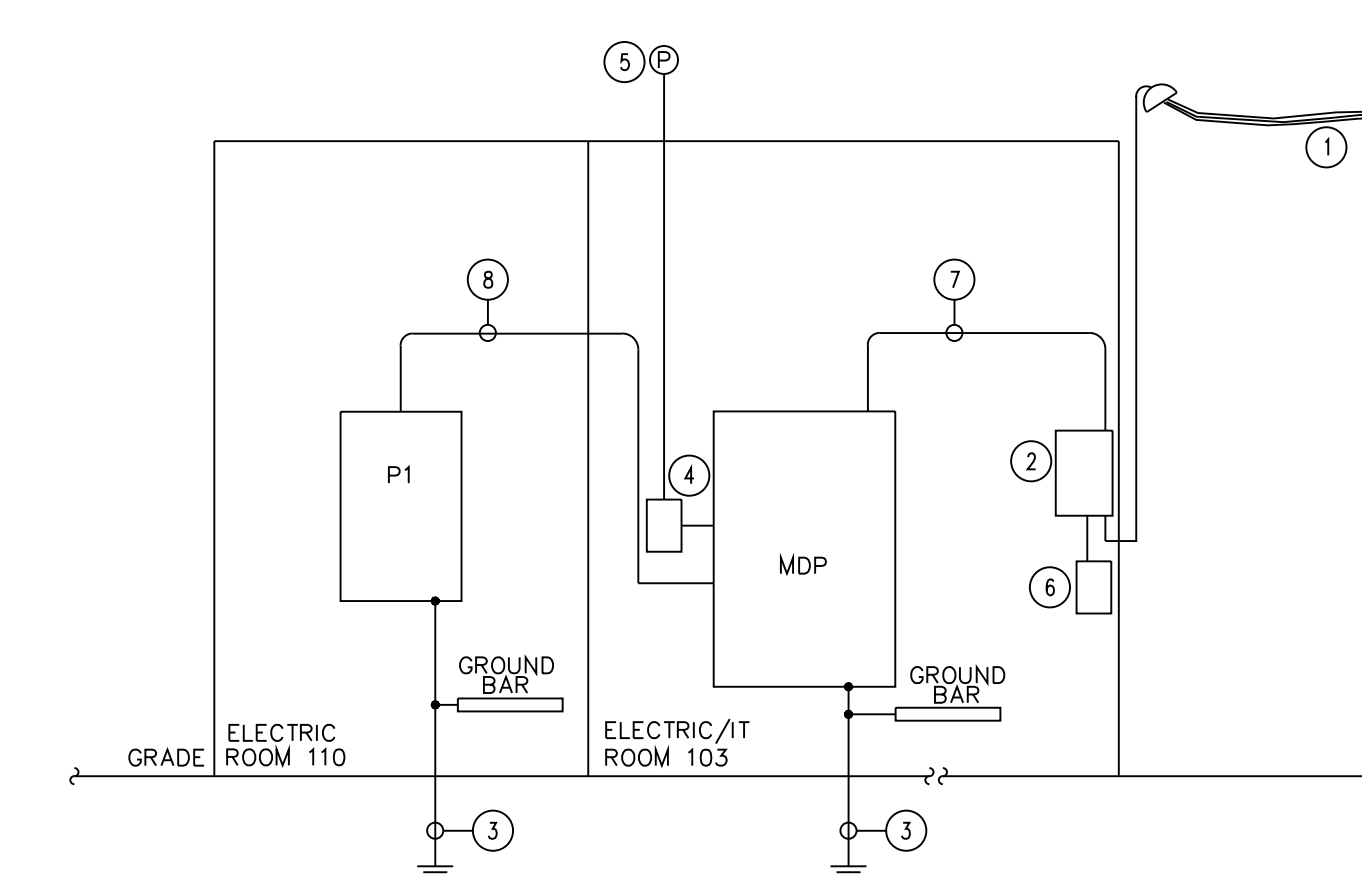
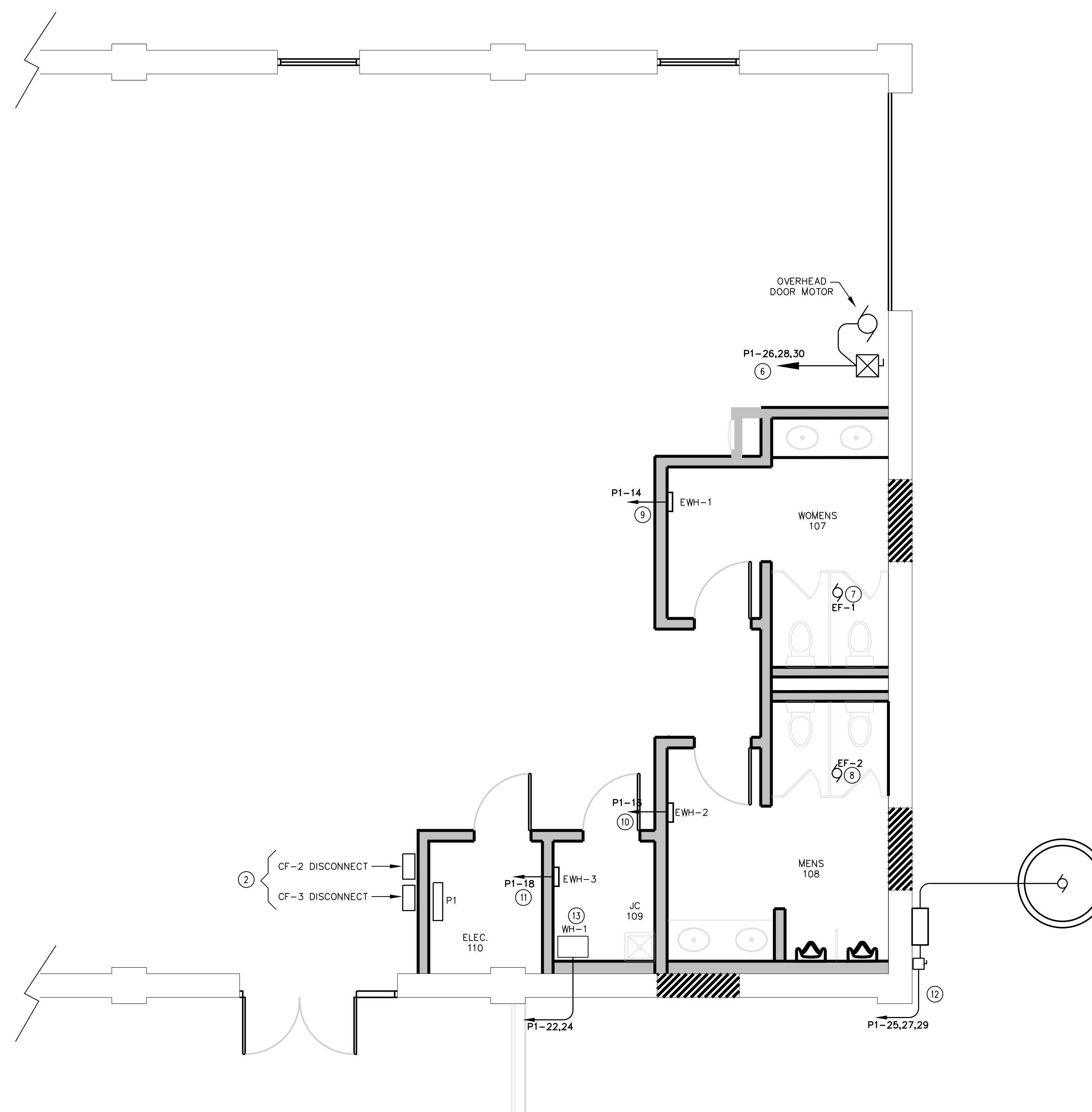
POWER PLAN
SCALE: 1/2" = 1'-0"

PLAN NOTES:

- SEE ELEVATION "A" AND CEILING FAN UNIT WIRING DETAIL FOR POWER AND CONTROLS RELATIVE TO CF-1. PROVIDE POWER AS SPECIFIED IN THE ELEVATION DETAIL. SEE SHEET E.3.1.
- SEE ELEVATION "B" AND CEILING FAN UNIT WIRING DETAIL FOR POWER AND CONTROLS RELATIVE TO CF-2 AND CF-3. PROVIDE POWER FOR EACH UNIT AS SPECIFIED IN THE ELEVATION DETAIL. SEE SHEET E.3.1.
- CU-1 BY H.C., 208V-1Ø, 14.7 FLA, 16 MCA. PROVIDE 30A-2P WP FDS, FUSE AT 25A.
- AHU-1 BY H.C., 120V-1Ø, 14.5 FLA. DISCONNECT SHALL BE PROVIDED BY THE H.C.
- FC-1 BY H.C., 208V-1Ø, 11.6 FLA, 17 MCA. PROVIDE 30A-2P WP FDS, FUSE AT 20A.
- OVERHEAD DOOR MOTOR STARTER/DISCONNECT AND CONTROLS BY M.C. PROVIDE CIRCUIT AS INDICATED.
- EF-1 BY H.C., 120V-1Ø, 1.5 FLA. PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS. EXTEND AND CONNECT TO LIGHTS AS REQUIRED VIA OCC SENSOR.
- EF-2 BY H.C., 120V-1Ø, 1.5 FLA. PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS. EXTEND AND CONNECT TO LIGHTS AS REQUIRED VIA OCC SENSOR.
- ELECTRIC WALL HEATER (EWH-1) BY H.C., 120V-1Ø, 750W, 6.5A.
- ELECTRIC WALL HEATER (EWH-2) BY H.C., 120V-1Ø, 750W, 6.5A.
- ELECTRIC WALL HEATER (EWH-3) BY H.C., 120V-1Ø, 750W, 6.5A.
- LIFT PUMP AND CONTROLS PROVIDED BY P.C., 208V-3Ø, 6.2 FLA, 16 MCA. PROVIDE 30A-3P WP FDS, FUSE AT 20A.
- ELECTRIC WATER HEATER (WH-1) BY P.C., 208V-1Ø, 7.5kW, 36 FLA.
- 4'x4'x1' DEEP CT CABINET FOR UTILITY SMART METER. SEE RISER DIAGRAM, DWG E.2.1.
- 4'x4'x1' DEEP CT CABINET FOR COMMUNICATION CABLE. SEE RISER DIAGRAM, DWG E.2.1.
- SECURITY FLOOR MOUNTED RACK. PROVIDE RECEPTACLES 72 INCHES AFF ON WALL AT RACK. SEE TECH PLAN, DWG E.3.1.
- BMS PANEL BY H.C., 120V-1Ø. PROVIDE CAT6 TO OWNER ELECTRIC METER IN ADDITION TO THE CAT6 CABLE FROM THE BMS PANEL TO THE IT RACK. PROVIDE THERMALLY PROTECTED SWITCH AS DISCONNECTING MEANS AND EXTEND AND CONNECT TO NEAREST CONVENIENCE OUTLET.



POWER PLAN - MECH. EQUIP.
SCALE: 1/2" = 1'-0"



RISER DIAGRAM
NO SCALE

RISER DIAGRAM GENERAL NOTES

- ALL CONDUCTORS MUST HAVE A MEGGER TEST PERFORMED BY THE CONTRACTOR PRIOR TO CONNECTION. COORDINATE WITH SRM FOR WITNESS.
- THE CONTRACTOR MUST OBTAIN A DIGGING PERMIT FROM SRM IN ADDITION TO ANY PA ONECALL REQUIREMENTS AT LEAST ONE WEEK IN ADVANCE OF ANY EXCAVATION.
- ALL UNDERGROUND TERMINATIONS MUST BE APPROVED BY SRM PRIOR TO ANY BACKFILLING WORK.
- ALL UNDERGROUND CONDUIT SHALL BE PVC (TO INCLUDE COMMUNICATIONS) EXCEPT ALL ELBOWS SHALL BE WIDE SWEEP RGS CONDUIT. IF THE CONDUIT REMAINS UNDERGROUND LATERALLY, IT CAN TRANSITION BACK TO PVC. HOWEVER, IF THE SWEEP IS RISING, IT SHALL REMAIN RGS UNTIL TERMINATION INTO CABINETS OR UP POLE AS DIRECTED.
- PROVIDE ANY AND ALL ROOF PENETRATIONS (BROW ROOF), TO INCLUDE FLASHING, BOOTS, SEALANTS, ETC. FOR ANY ELECTRICAL OR COMMUNICATIONS PENETRATIONS.

RISER DIAGRAM PLAN NOTES

- EXISTING INCOMING CONDUCTORS FROM EXISTING UTILITY POLE MOUNTED TRANSFORMER LOCATED NEAR BUILDING #57 ON EXISTING UTILITY POLE APPROXIMATELY 50' FROM THE BUILDING.
- PROVIDE NEW CT CABINET. VERIFY LOCATION. PROVIDE 200:5 SPLIT CORE CTS. WIRE CTS TO SMART METER IN NEMA 1 STEEL ENCLOSURE LOCATED IN ELEC/IT ROOM 103 VIA CONTROL CABLE AND/OR CONDUCTORS RECOMMENDED BY METER MANUFACTURER IN RGS CONDUIT.
- #6 GROUNDING ELECTRODE CONDUCTOR. PROVIDE BONDING JUMPER TO WATER PIPE AND ACROSS WATER METER. THESE GROUNDING REQUIREMENTS ARE NOT ALL INCLUSIVE. ALL GROUNDING SHALL BE AS PER NEC WHETHER MENTIONED SPECIFICALLY OR NOT. SEE GROUNDING DETAIL, DRAWING E.2.1.
- EXISTING DIGITAL TIME SWITCH, WIRED FOR PHOTOCELL ON/TIMELOCK OFF OPERATION.
- EXISTING PHOTOCELL MOUNTED HIGH ON BUILDING.
- PROVIDE SQUARE D 5560 SMART METER (NO SUBSTITUTIONS) IN NEMA 1, STEEL ENCLOSURE. METER SHALL BE MOUNTED IN HINGED PAINTED STEEL DOOR, I.E. PANEL BACKBOX AND STANDARD GRAY COVER.
- PROVIDE 2" CONDUIT. ROUTE NEW 3#5/0 CU THHN CONDUCTOR FROM CT CABINET IN CONDUIT AND TERMINATE IN PANEL AS REQUIRED. CONDUIT MAY BE ENT IN INTERIOR OF BLDG.
- PROVIDE 1 1/2" CONDUIT. ROUTE NEW 4#1 CU THWN CONDUCTORS AND 1 #6 GND.

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

| NO. | DESCRIPTION | DATE |
|-----------|-------------|------|
| REVISIONS | | |

Professional's Signature _____ Date _____
COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA

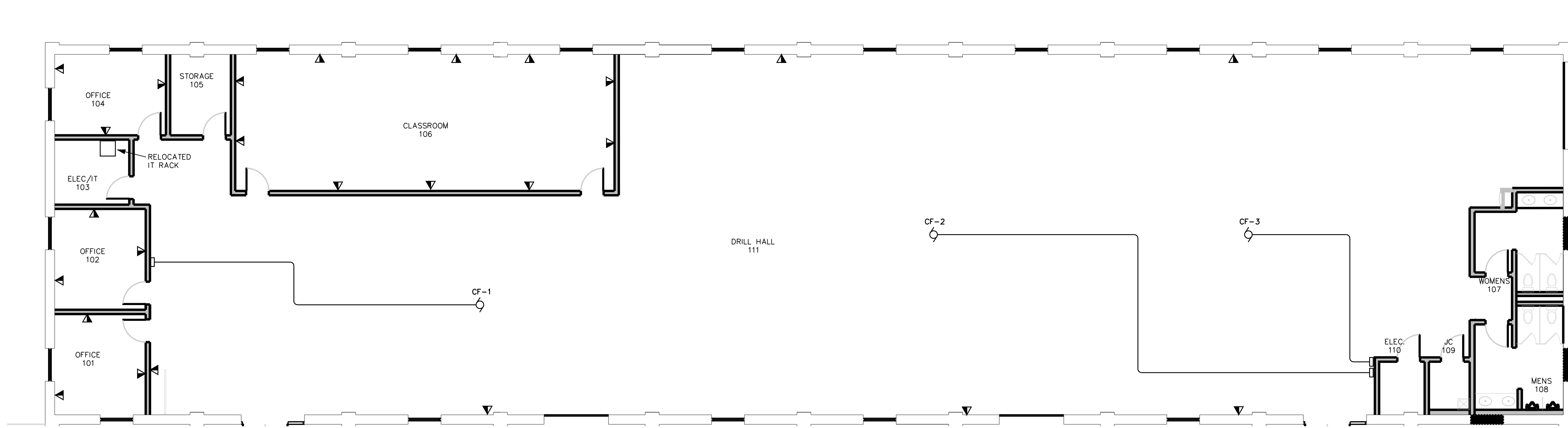
DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42190067

RENOVATIONS TO
FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

POWER PLAN

| | | |
|-------------------------|---------------------|----------------------|
| DRAWN BY D. HEALEY | DATE 31 MAR 2022 | DRAWING NO. E.2.1 |
| CHECKED BY B. BARGER | SCALE AS NOTED | |



DATA PLAN
SCALE 1/8" = 1'-0"

SYMBOLS
NOTE 1

- LIGHT FIXTURE, CEILING
- ◐ LIGHT FIXTURE, CEILING EMERGENCY
- ◑ SPLIT-WIRED LIGHT FIXTURE
- LIGHT FIXTURE, WALL
- S SINGLE POLE SWITCH, 48" AFF TO TOB, TYPICAL UNO
- Sb SINGLE GANG BOX W/BLANK COVER PLATE
- S2 DOUBLE POLE SWITCH
- S3 THREE-WAY SWITCH
- S4 FOUR-WAY SWITCH
- S5 DIMMER SWITCH
- Soc OCCUPANCY SENSOR, DUAL TECH.
- Socb OCCUPANCY SENSOR, 0-10V DIMMING.
- Soc25 OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT
- Soc25p OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT, PHOTOCELL
- S25pP ELECTRONIC WALL TIMER, 5 PRESETS, NON-ADJUSTABLE
- ⊕ DUPLEX RECEPTACLE, MOUNT 18" AFF TO COB, TYPICAL UNO
- C MOUNTED ABOVE COUNTER
- CL CLOCK HANGER RECEPTACLE
- ⊕ SPECIAL PURPOSE RECEPTACLE
- ⊕ QUADRUPLEX RECEPTACLE
- ⊕ GROUND FAULT INTERRUPTING RECEPTACLE
- WP WEATHERPROOF WHILE IN USE
- ⊕ ISOLATED GROUND RECEPTACLE
- ⊕ TELEPHONE OUTLET - ANALOG, 18" AFF TO COB, TYPICAL UNO
- W WALL PHONE OUTLET
- ▼ DATA OUTLET, 4 PORT, 2 ACTIVE, 2 BLANK
- ▼ DATA OUTLET, 4 PORT, 4 ACTIVE
- S1P MANUAL STARTER WITH THERMAL OVERLOAD & PILOT LIGHT
- S2P MANUAL STARTER, W/ PILOT LIGHT, W/O THERMAL OVERLOAD
- ⊕ DISCONNECT SWITCH
- ⊕ DOOR CONTROLLER, COORDINATE W/G.C.
- ⊕ CABLE TV OUTLET
- ⊕ CCTV CAMERA, POE
- ⊕ WFI, POE
- ⊕ TANKLESS WATER HEATER

- ⊕ CEILING OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT
- ⊕ CEILING OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT, LONG RANGE
- ⊕ CONTACTOR
- ⊕ AC MAGNETIC STARTER
- ⊕ COMBINATION STARTER/DISCONNECT
- ⊕ MOTOR
- ⊕ JUNCTION BOX
- ⊕ PHOTOCELL
- ⊕ FIRE ALARM PULL STATION
- ⊕ FIRE ALARM FLOW SENSOR
- ⊕ FIRE ALARM TAMPER SWITCH
- ⊕ SMOKE DAMPER
- ⊕ SMOKE / FIRE DAMPER COMBINATION
- ⊕ FIRE ALARM SPEAKER/STROBE
- ⊕ FIRE ALARM STROBE
- ⊕ SMOKE DETECTOR
- ⊕ HEAT DETECTOR
- ⊕ DUCT DETECTOR, COORDINATE LOCATION W/H.C.
- ⊕ FIRE ALARM EXTERNAL SPEAKER(MNS), WP, 12"-0" AFF
- ⊕ BOSCH D-9370i SENSOR
- ⊕ POSITION SENSOR
- ⊕ ADEMO VISTA 12B
- ⊕ SEISMIC SENSOR, WALL MOUNT 12" BELOW DECK
- ⊕ OUTSIDE SIREN
- ⊕ VAULT SOUND ALARM
- ⊕ MICROPHONE
- ⊕ KEYPAD, WALL MOUNT 55" AFF.
- ⊕ CELLULAR ANTENNA
- ⊕ CELLULAR BACK-UP SYSTEM
- ⊕ WATER DISPENSER
- ⊕ TIME CLOCK
- ⊕ LINE VOLTAGE THERMOSTAT
- ⊕ JUNCTION BOX
- ⊕ HOMERUN TO PANEL INDICATED
- ⊕ EMERGENCY LIGHTING CIRCUIT
- ⊕ CIRCUIT UNDERGROUND OR UNDERFLOOR
- ⊕ PANELBOARD
- ⊕ EMERGENCY BATTERY PACK
- ⊕ REMOTE EMERGENCY HEAD
- ⊕ EXIT SIGN
- ⊕ CU GROUND BAR, 1/4"x1"x8" MIN.
- ⊕ CU GROUND BAR, 1/4"x2"x12" MIN.

- ABBREVIATIONS**
WITH OR WITHOUT PERIODS
- A AMPERE
 - AB ABOVE
 - AFV ABOVE FINISHED FLOOR
 - AFH ABOVE FINISHED GRADE
 - ATS AUTOMATIC TRANSFER SWITCH
 - BOB BOTTOM OF BOX
 - C CONDUIT
 - CKT CIRCUIT
 - COB CENTER OF BOX
 - CPT CONTROL POWER TRANSFORMER
 - CT CURRENT TRANSFORMER
 - CU COPPER
 - C/B CIRCUIT BREAKER
 - P POLE
 - PC PLUMBING CONTRACTOR
 - PNL PANELBOARD
 - POWER POWER
 - PH PHASE
 - RGS RIGID GALVANIZED STEEL CONDUIT
 - SW SWITCH
 - TSB TELEPHONE BACKBOARD
 - TOB TOP OF BOX
 - FAFP FIRE ALARM ANNUNCIATOR PANEL (KEYPAD)
 - UNO UNLESS NOTED OTHERWISE
 - V VOLT
 - W WATT OR WIRE
 - W/ WITH
 - W/G WITH GROUND
 - W/O WITH OUT
 - WP WEATHER-PROOF
 - WFIU WEATHER-PROOF WHILE IN USE
 - TRANSFORMER TRANSFORMER
 - XFMR

GENERAL NOTE FOR PANELBOARD SCHEDULES

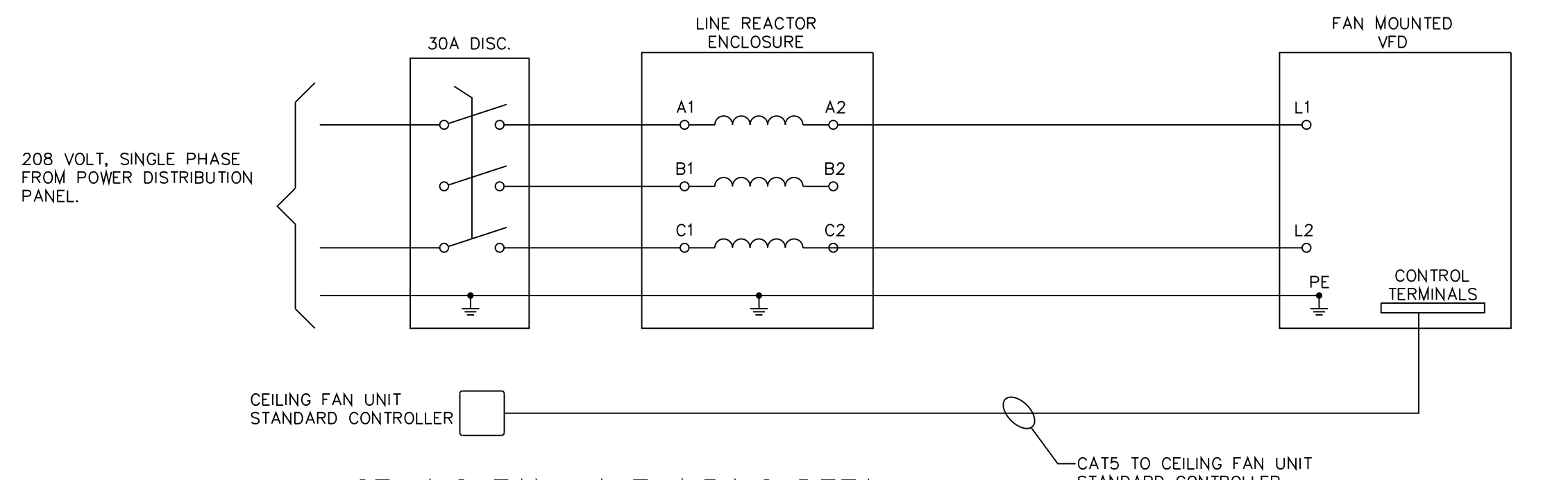
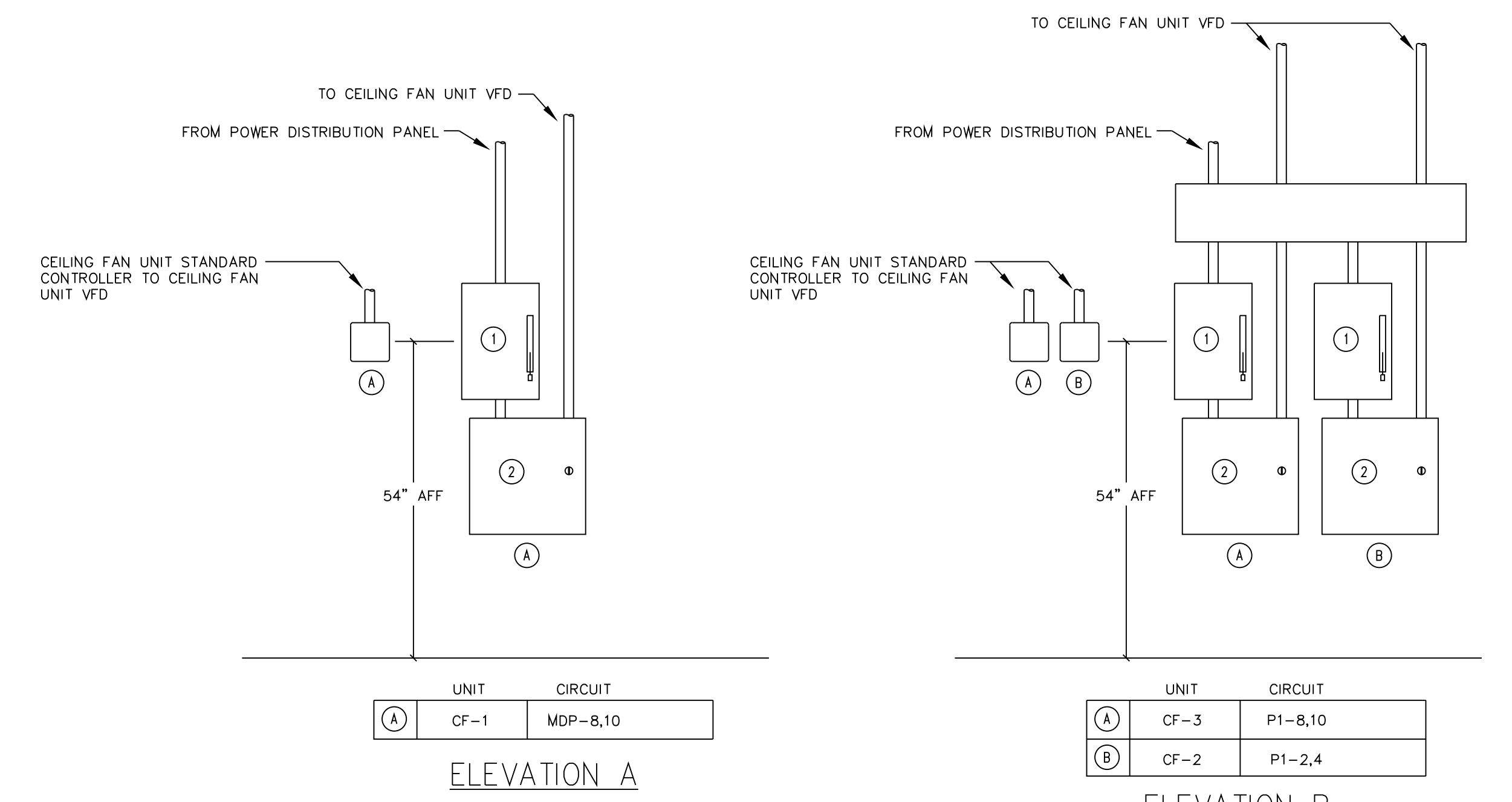
ALL WIRING FOR 120 VOLTS 20 AMP BRANCH CIRCUITS INCLUDING GROUNDING CONDUCTORS SHALL BE SIZED AS FOLLOWS:

| HOME RUN LENGTH | WIRE SIZE |
|-----------------|-----------|
| 0 - 75' | #12 |
| 75 - 150' | #10 |
| OVER 150' | #8 |

| CIRCUIT LENGTH | WIRE SIZE |
|----------------|-----------|
| 0 - 100' | #12 |
| OVER 100' | #10 |

IN ACCORDANCE WITH THE ABOVE WHERE THE SIZE OF BRANCH CIRCUIT CONDUCTOR IS INCREASED BEYOND THE MINIMUM REQUIRED BY THE N.E.C. FOR THE BRANCH CIRCUIT RATING, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE TERMINATION PROVISIONS OF ALL EQUIPMENT CONNECTED TO SUCH CIRCUITS ARE LISTED AS SUITABLE FOR THE CONDUCTOR SIZES INVOLVED.

THE LENGTH OF THE TRAVELERS BETWEEN THREE-WAY AND FOUR-WAY SWITCHES, ETC. SHALL BE INCLUDED WHEN FIGURING HOME RUN AND CIRCUIT LENGTH.



CEILING FAN UNIT POWER NOTES:

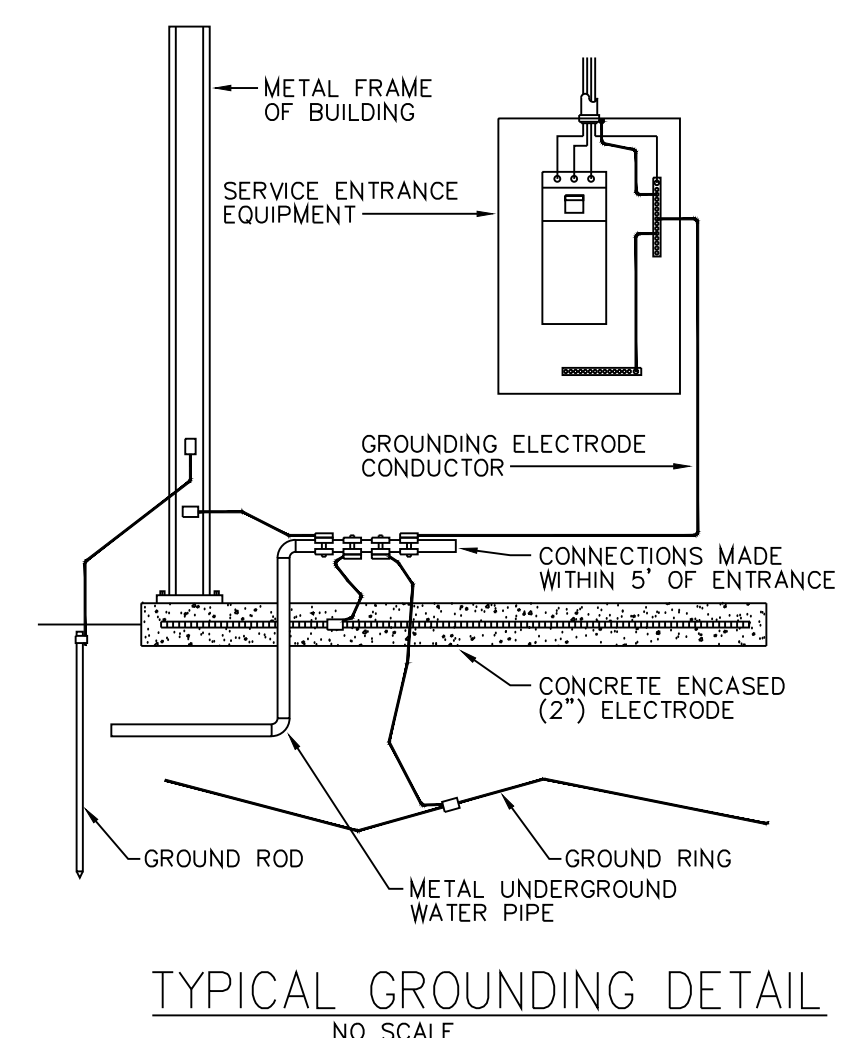
- PROVIDE AND INSTALL A 30 AMP, 3 PHASE, NON-FUSIBLE, LOCKABLE DISCONNECT. MOUNT UNIT 54" AFF TO CENTER OF DISCONNECT.
- PROVIDE AND INSTALL A 12" X 12" X 6" HINGED ENCLOSURE WITH A 2.5MH LINE REACTOR INSTALLED (MTE PART NO. RL-01202 OR EQUIVALENT). WIRE PHASES "A" AND "C". SEE CEILING FAN UNIT WIRING DETAIL ON THIS SHEET.
- FOR CEILING FAN UNIT CONTROL PANELS SEE TECHNOLOGY PLAN ON THIS SHEET.

NOTE:
1. THIS SYMBOL SCHEDULE IS TYPICAL. NOT ALL SYMBOLS MAY BE USED. SYMBOLS MAY BE SHOWN IN MULTIPLE ORIENTATIONS.

FEEDER SIZE SCHEDULE

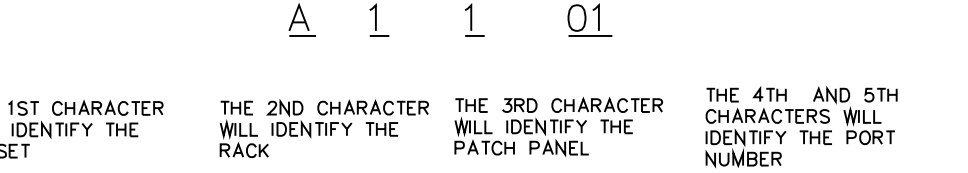
| 4 WIRE FEEDERS WITH GROUND | WIRE SIZE | | | 3 WIRE FEEDERS WITH GROUND |
|----------------------------|------------|-------------|---------|----------------------------|
| | AMP | PHASE/NTRL. | CONDUIT | |
| A | 3/4" | 20 | 12 | 20 |
| B | 3/4" | 30 | 10 | 30 |
| C | 1" | 40 | 8 | 40 |
| D | 1 1/4" | 55 | 6 | 55 |
| E | 1 1/4" | 70 | 4 | 70 |
| F | 1 1/4" | 95 | 2 | 95 |
| G | 1 1/2" | 110 | 1 | 110 |
| H | 2" | 150 | 1/0 | 150 |
| J | 2" | 175 | 2/0 | 175 |
| K | 2" | 200 | 3/0 | 200 |
| L | 2 1/2" | 225 | 4/0 | 225 |
| M | 2 1/2" | 250 | 250 | 250 |
| N | 3" | 300 | 350 | 300 |
| O | 3 1/2" | 350 | 500 | 350 |
| P | 4" | 400 | 600 | 400 |
| Q | (2) 2 1/2" | 450 | 2-4/0 | 450 |
| R | (2) 2 1/2" | 500 | 2-250 | 500 |
| S | (2) 3" | 550 | 2-300 | 550 |
| T | (2) 3" | 600 | 2-350 | 600 |
| U | (2) 4" | 800 | 2-600 | 800 |
| V | (3) 3" | 1000 | 3-400 | 1000 |
| W | (3) 4" | 1200 | 3-600 | 1200 |

NOTES:
1. CONDUIT SIZES ARE BASED, IN GENERAL, ON TYPE TW OR THW INSULATED WIRE.
2. INDICATES SIZE AND NUMBER OF CONDUCTORS PER PHASE (AND NEUTRAL WHERE APPLICABLE) IN FEEDERS.
3. WHERE MULTIPLE SETS OF CONDUCTORS ARE SPECIFIED FOR A FEEDER, EACH SET SHALL BE INSTALLED IN A CONDUIT AND ONE CONDUCTOR IN EACH SET SHALL BE CONNECTED TO EACH PHASE TERMINAL (AND NEUTRAL TERMINAL WHERE APPLICABLE).
4. WHERE MULTIPLE SETS OF CONDUCTORS ARE SPECIFIED FOR A FEEDER, ALL CONDUCTORS SHALL BE OF IDENTICAL LENGTH AND OF SAME MANUFACTURER. CONDUIT RUNS SHALL BE IDENTICAL (WITHIN PRACTICAL LIMITS).
5. INDICATED GROUND FOR EACH CONDUIT.

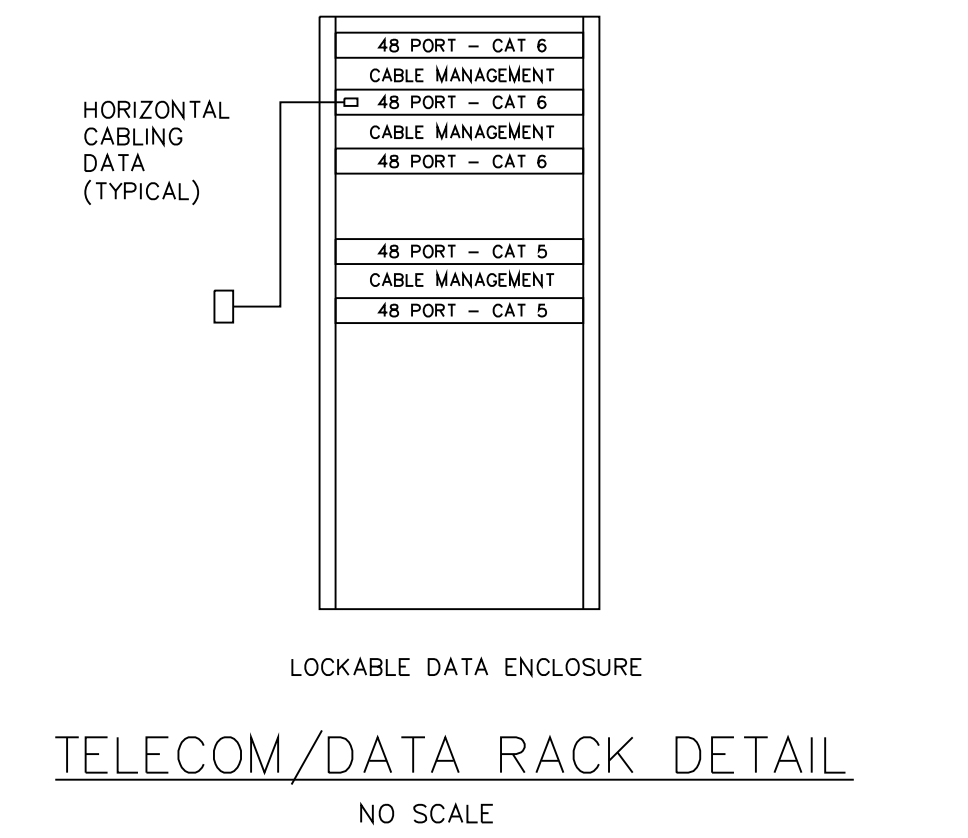


- GROUNDING DETAIL NOTES:**
- GROUNDING ELECTRODE CONDUCTOR SHALL BE #2/0 COPPER.
 - REFER TO SPECIFICATIONS FOR THE SIZE AND TYPE OF CONDUCTORS TO BE USED FOR ALL BONDING CONDUCTORS, BONDING JUMPERS, AND GROUND RING CONDUCTORS.
 - REFER TO THE SPECIFICATIONS FOR ALL CONNECTORS AND THEIR APPLICATIONS.
 - PROVIDE ALL GROUNDING COUNTERPOISES, GROUND RODS, AND GROUND RINGS AS PER THE SPECIFICATION.
 - PROVIDE GROUNDING ELECTRODE CONDUCTORS FOR ALL GROUNDING ELECTRODES AVAILABLE AS PER NEC 250.8, 250.90.
 - NOT ALL GROUNDING CONNECTIONS MAY APPLY TO THIS BUILDING.

THE CONTRACTOR SHALL PROVIDE A PATCH CORD FOR EACH PORT IN PATCH PANELS



LABELING FOR TELECOM/DATA DROPS



MAIN C/B: 225A MCB
FRAME: 225A NOMINAL
EXISTING PANEL: 'MDP' 22K AIC
VOLTAGE: 208/120V-3ø-4W
POLES: 42
MOUNTING: SURFACE

| NOTE | CIRCUIT | EQUIPMENT | BREAKER | FEEDER | 9A AMPS | 15 AMPS | 20 AMPS | FEEDER | BREAKER | EQUIPMENT | NOTE |
|------|---------|----------------------------|---------|----------|---------|---------|---------|----------|---------|---------------------|------|
| | 1 | LTC. ROOMS 105, 106 | 20-1P | 2#12 W/G | 3.5 | 45.6 | | | | | 2 |
| | 3 | LTC. ROOMS 101,102,103,104 | 20-1P | 2#12 W/G | | 2.8 | 17.2 | | 100-3P | PANEL P-1, RM. 110 | 4 |
| | 5 | LTC. DRILL HALL RM. 111 | 20-1P | 2#12 W/G | | | 8.0 | 15.5 | | | 6 |
| | 7 | LTC. DRILL HALL RM. 111 | 20-1P | 2#12 W/G | 4.0 | 14.7 | | 2#10 W/G | 25-2P | CU-1 | 8 |
| | 9 | LTC. DRILL HALL RM. 111 | 20-1P | 2#12 W/G | 6.0 | 14.7 | | 2#12 W/G | 20-2P | FC-1 | 10 |
| | 11 | RCPT. DRILL HALL RM. 111 | 20-1P | 2#12 W/G | 6.0 | 3.0 | | 2#12 W/G | 20-2P | BMS RECEPT. RM. 103 | 14 |
| | 13 | RCPT. RM. 101, 102 | 20-1P | 2#12 W/G | 6.0 | 12.0 | | 2#12 W/G | 20-2P | | 16 |
| | 15 | RCPT. RM. 102 | 20-1P | 2#12 W/G | 6.0 | 12.0 | | 2#12 W/G | 20-2P | FC-1 | 18 |
| | 17 | IT RCPT. RM. 103 | 15-1P | 2#12 W/G | | 3.0 | 12.0 | | | | 20 |
| | 19 | RCPT. RM. 103 | 20-1P | 2#12 W/G | 1.5 | | | | 20-1P | SPARE | 22 |
| | 21 | SPARE | 20-1P | | | | | | 20-1P | SPARE | 24 |
| | 23 | SPARE | 20-1P | | | | | | 20-1P | SPARE | 26 |
| | 25 | RCPT. RM. 104, 105 | 20-1P | 2#12 W/G | 7.5 | | | | 20-1P | SPARE | 28 |
| | 27 | SPARE | 20-1P | | | | | | 20-1P | SPARE | 30 |
| | 29 | SPARE | 20-1P | | | | | | 20-1P | SPARE | 32 |
| | 31 | SPACE | | | | | | | | SPACE | 34 |
| | 33 | SPACE | | | | | | | | SPACE | 36 |
| | 35 | SPACE | | | | | | | | SPACE | 38 |
| | 37 | POWER METER | 15 | 1.0 | | | | | | SPACE | 40 |
| | 39 | POWER METER | 15 | | | 1.0 | | | | SPACE | 42 |
| | 41 | POWER METER | 15 | | | | 1.0 | | | SPACE | 44 |

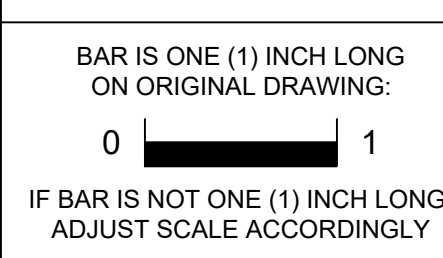
NOTES:
1. SEE POWER PLAN NOTE 7
2. CIRCUIT BREAKER SHALL BE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RATED.

MAIN C/B: 100A
FRAME: 125A NOMINAL
NEW PANEL: 'P1' 10K AIC
VOLTAGE: 208/120V-3ø-4W
POLES: 30
MOUNTING: FLUSH

| NOTE | CIRCUIT | EQUIPMENT | BREAKER | FEEDER | 9A AMPS | 15 AMPS | 20 AMPS | FEEDER | BREAKER | EQUIPMENT | NOTE |
|------|---------|----------------------------|---------|----------|---------|---------|---------|----------|----------|------------------------|------|
| | 1 | SPARE | 20-1P | | 7.2 | | | | 2#10 W/G | 25-2P | CF-2 |
| | 3 | SPARE | 20-1P | | | 7.2 | | | 20-1P | SPARE | 4 |
| | 5 | LTC. ROOMS 107,108,109,110 | 15-1P | 2#12 W/G | | | 4.5 | | 2#10 W/G | 25-2P | CF-3 |
| | 7 | SPARE | 20-1P | | 7.2 | | | | 2#10 W/G | 25-2P | 10 |
| | 9 | SPARE | 20-1P | | | 7.2 | | | 20-1P | SPARE | 12 |
| | 11 | WATER DISPENSER | 20-1P | 2#12 W/G | 9.0 | 6.5 | | 1.5 | 20-1P | SPARE | 14 |
| | 13 | RCPT., RM. 107,108,109,110 | 20-1P | 2#12 W/G | 9.0 | 6.5 | | 2#12 W/G | 20-1P | ELECTRIC WALL HEATER 1 | 16 |
| | 15 | RCPT., DRILL HALL 111 | 20-1P | 2#12 W/G | 9.0 | 6.5 | | 2#12 W/G | 20-1P | ELECTRIC WALL HEATER 2 | 18 |
| | 17 | RCPT., DRILL HALL 111 | 20-1P | 2#12 W/G | 4.5 | 6.5 | | 2#12 W/G | 20-1P | ELECTRIC WALL HEATER 3 | 20 |
| | 19 | SPACE | | | | | | | 20-1P | SPARE | 22 |
| | 21 | SPACE | | | | 36.0 | | | | | 24 |
| | 23 | SPACE | | | | | 36.0 | | 2#8 W/G | 40-2P | WH-1 |
| | 25 | | | | 6.0 | 2.5 | | | | | 26 |
| | 27 | SEWERAGE LIFT PUMP | 20-3P | 3#12 W/G | 6.0 | 2.5 | | 3#12 W/G | 20-3P | OVERHEAD DOOR MOTOR | 28 |
| | 29 | | | | | | 6.0 | 2.5 | | | 30 |

NOTES:
1. SEE POWER PLAN NOTE 7
2. CIRCUIT BREAKER SHALL BE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RATED.

VERIFY SCALE



CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

Professional's Signature _____ Date _____

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA

DESIGN PROFESSIONALS:
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BLDG 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42190067

RENOVATIONS TO FT. MIFFLIN BLDG. 57
PHILADELPHIA
PHILADELPHIA COUNTY, PENNSYLVANIA

TECH PLAN, NOTES AND SYM

DRAWN BY: D. HEALEY
DATE: 31 MAR 2022
SCALE: AS NOTED

DRAWING NO. E.3.1