

Project Drawings For:

# Town of Pendleton Community Center

Project Location:

Campbell Blvd  
Lockport, New York 14094

Project Number:

21-049

Drawing List:

G-1    Cover Sheet

- Contract No. 21-049G      General Construction
- A-1    Elevations, Detail & Notes
- A-2    Post Plan & Floor Plan
- A-3    Foundation Plan & Schedules
- A-4    Building & Wall Sections
- A-5    Wall Sections
- A-6    Door & Room Finish Schedules, Enlarged Plan & Details

- Contract No. 21-049H      Heating & Ventilation Construction
- M-1    HVAC Plan
- M-2    HVAC Schedules and Details

- Contract No. 21-049D      Plumbing Construction
- D-1    Plumbing - Drain & Vent
- D-2    Plumbing - Water & Gas
- D-3    Plumbing - Specifications
- FP-1    Fire Protection
- FP-2    Fire Protection Details

- Contract No. 21-049E      Electrical Construction
- E-1    Electrical Service Details
- E-2    Electrical - Power & Data
- E-3    Electrical - Lighting
- E-4    Electrical - Fire Alarm
- E-5    Electrical - Specifications



Location Map

ISSUED FOR BIDDING 3-3-23  
NOT FOR CONSTRUCTION



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Charles A. Dahlke, R.A.  
Registered Architect

DESIGNER:

REVISIONS:

DATE: FEBRUARY 14, 2023

SHEET 1 OF 19

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residential \* commercial \* church design

PROJECT LOCATION:  
CAMPBELL BLVD  
PENDLETON, NEW YORK

CONTENT(S) ON SHEET:  
COVER SHEET

CLIENT NAME:  
TOWN OF PENDLETON

PROJECT TITLE:  
PENDLETON COMMUNITY CENTER

DRAWING NUMBER:  
G-1

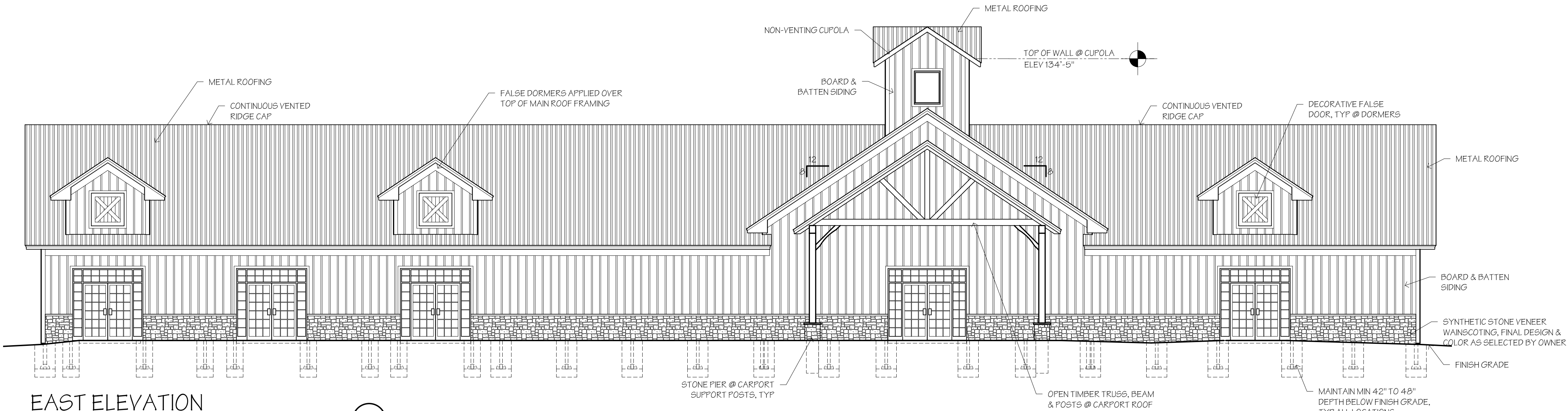
21-049

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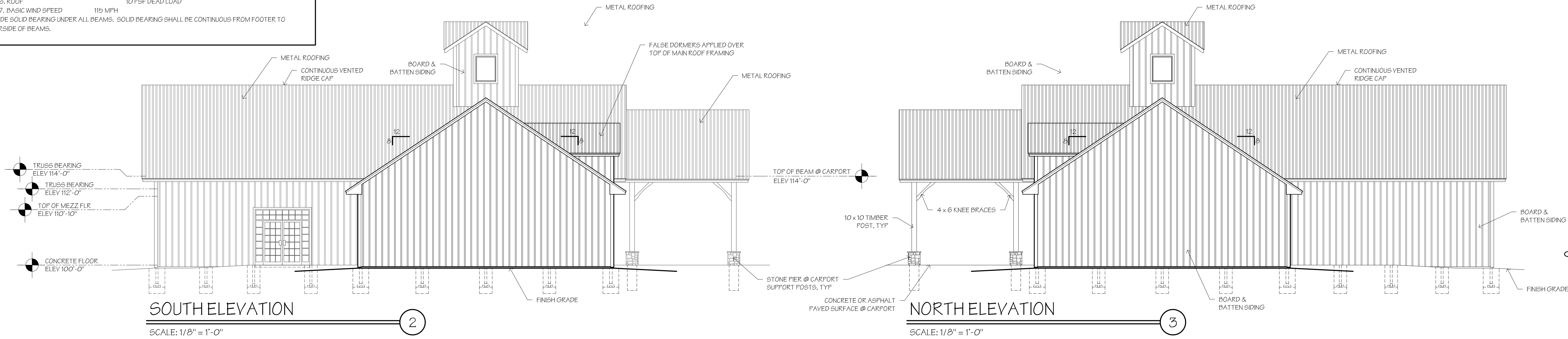
GENERAL & STRUCTURAL NOTES

- OCCUPANCY CLASSIFICATION: A-3 ASSEMBLY
- CONSTRUCTION CLASSIFICATION: TYPE VB
- BUILDING IS EQUIPPED WITH A FULL COVERAGE AUTOMATIC SPRINKLER SYSTEM DESIGNED & INSTALLED IN ACCORDANCE W/ NFPA 13. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS FOR SPINKLER SYSTEM TO BE INSTALLED. SHOP DRAWINGS SHALL BE SEALED BY LICENSED DESIGN PROFESSIONAL
- TOTAL BUILDING AREA:
  - FIRST FLOOR 6,000 SF
  - MECHANICAL MEZZANINE 1,095 SF
  - COVERED CARPORT 694 SF
  - TOTAL BUILDING AREA 7,779 SF
- DESIGN IS BASED ON THE 2020 BUILDING CODE OF NEW YORK STATE
- ALL DIMENSIONS ARE TO FACE OF STUD, POST LOCATIONS. ACTUAL FACE OF MASONRY OR CONCRETE AS APPLICABLE & CENTERLINE OF OPENINGS UNLESS OTHERWISE NOTED.
- EXTERIOR WALLS ARE POST FRAME CONSTRUCTION W/ GRTS AS PER WALL SECTIONS. TYPICAL INTERIOR WALLS ARE 2 x 4 STUDS. INTERIOR PLUMBING WALLS ARE 2 x 6 STUDS
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL CODES. LOCAL, STATE AND FEDERAL CODES ARE TO TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COMPLYING WITH APPLICABLE CODES AND ORDINANCES, AND FOR NOTIFYING GOVERNING BODIES FOR APPROPRIATE INSPECTIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS ON THESE DRAWINGS PRIOR TO CONSTRUCTION AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
- ELECTRICAL SYSTEM SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, NFPA 70-14.
- GRADING SHOWN ON THESE DRAWINGS IS REPRESENTATIONAL ONLY. EXACT SITE CONDITIONS MAY REQUIRE ADJUSTMENT TO FINAL GRADING BY THE CONTRACTOR. PROPER DRAINAGE SYSTEM MUST BE PROVIDED.
- IN LIEU OF GEOTECHNICAL EVALUATION, FOOTING DESIGN ASSUMES A MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF. VERIFY ACTUAL CONDITIONS PRIOR TO CONSTRUCTION.
- ALL FOOTINGS SHALL BEAR UPON UNDISTURBED OR COMPACTED SUB-GRADE
- FOOTING BEARING POINTS SHALL MAINTAIN A MINIMUM DEPTH OF 42 TO 48 INCHES BELOW FINISH GRADE, AS DETERMINED BY THE LOCAL BUILDING DEPARTMENT, FOR ENTIRE PERIMETER OF BUILDING
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH IN ACCORDANCE W/ TABLE 1904.2.2.
- DESIGN LOADS ARE AS FOLLOWS:
  - FLOOR LOAD - STORAGE: 100 PSF LIVE LOAD
  - MECHANICAL MEZZANINE FLOOR: 60 PSF LIVE LOAD
  - FLOOR: 10 PSF DEAD LOAD
  - GROUND SNOW LOAD: 50 PSF
  - SLOPED ROOF SNOW LOAD: 35 PSF
  - ROOF: 10 PSF DEAD LOAD
  - BASIC WIND SPEED: 115 MPH
- PROVIDE SOLID BEARING UNDER ALL BEAMS. SOLID BEARING SHALL BE CONTINUOUS FROM FOOTER TO UNDERSIDE OF BEAMS.



EAST ELEVATION

SCALE: 3/16" = 1'-0"



SOUTH ELEVATION

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

NORTH ELEVATION

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

CUPOLA ROOF

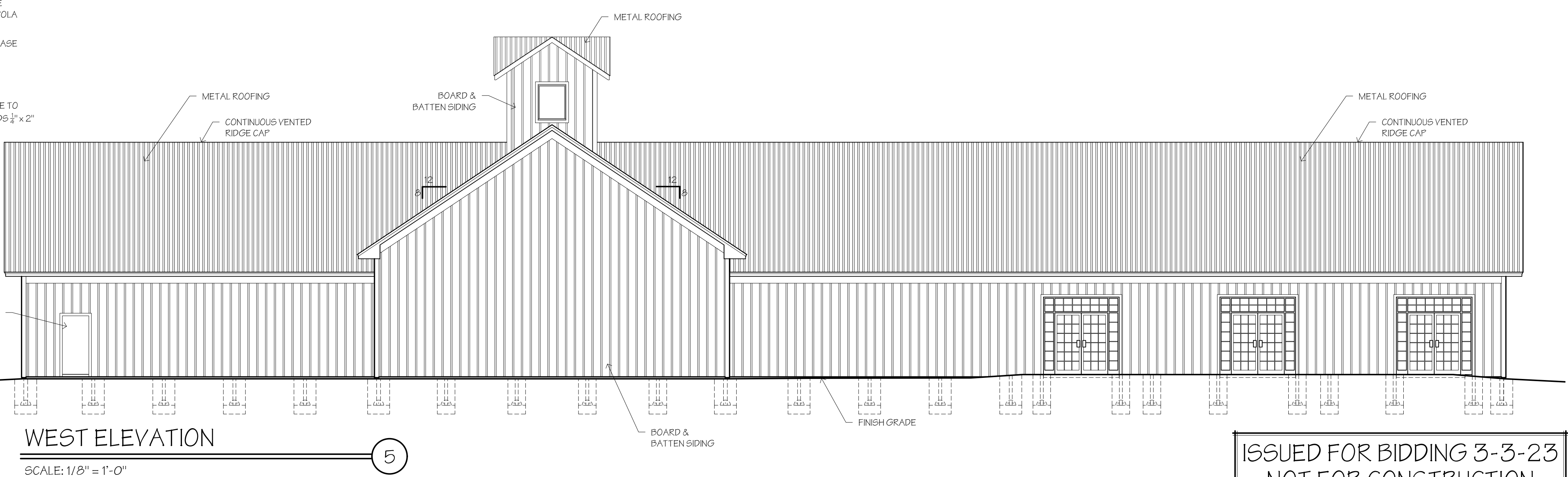
- STANDING SEAM METAL ROOFING
- 2 x 4 PURLINS @ 24" O.C.
- 2 x 6 RAFTERS @ 16" O.C.
- 2 x 8 RIDGE BOARD
- 2 x 4 CEILING JOISTS @ 16" O.C.
- ALUM FASCIA ON 2 x 6 NAILER
- VENTED VINYL SOFFIT

CUPOLA WALL

- BOARD & BATTEN SIDING
- AIR INFILTRATION BARRIER INSTALL AS PER MANUF TAPE ALL SEAMS
- OSB SHEATHING
- 2 x 4 STUDS @ 16" O.C.
- DOUBLE TOP PLATE
- 2 x 6 PLATE ON MAIN ROOF TRUSSES

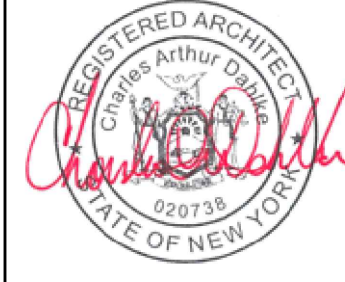
SECTION THRU CUPOLA

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



WEST ELEVATION

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



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SHEET 2 OF 19

PROJECT LOCATION:  
CAMPBELL BLVD  
PENDLETON, NEW YORK

CLIENT NAME:  
TOWN OF PENDLETON

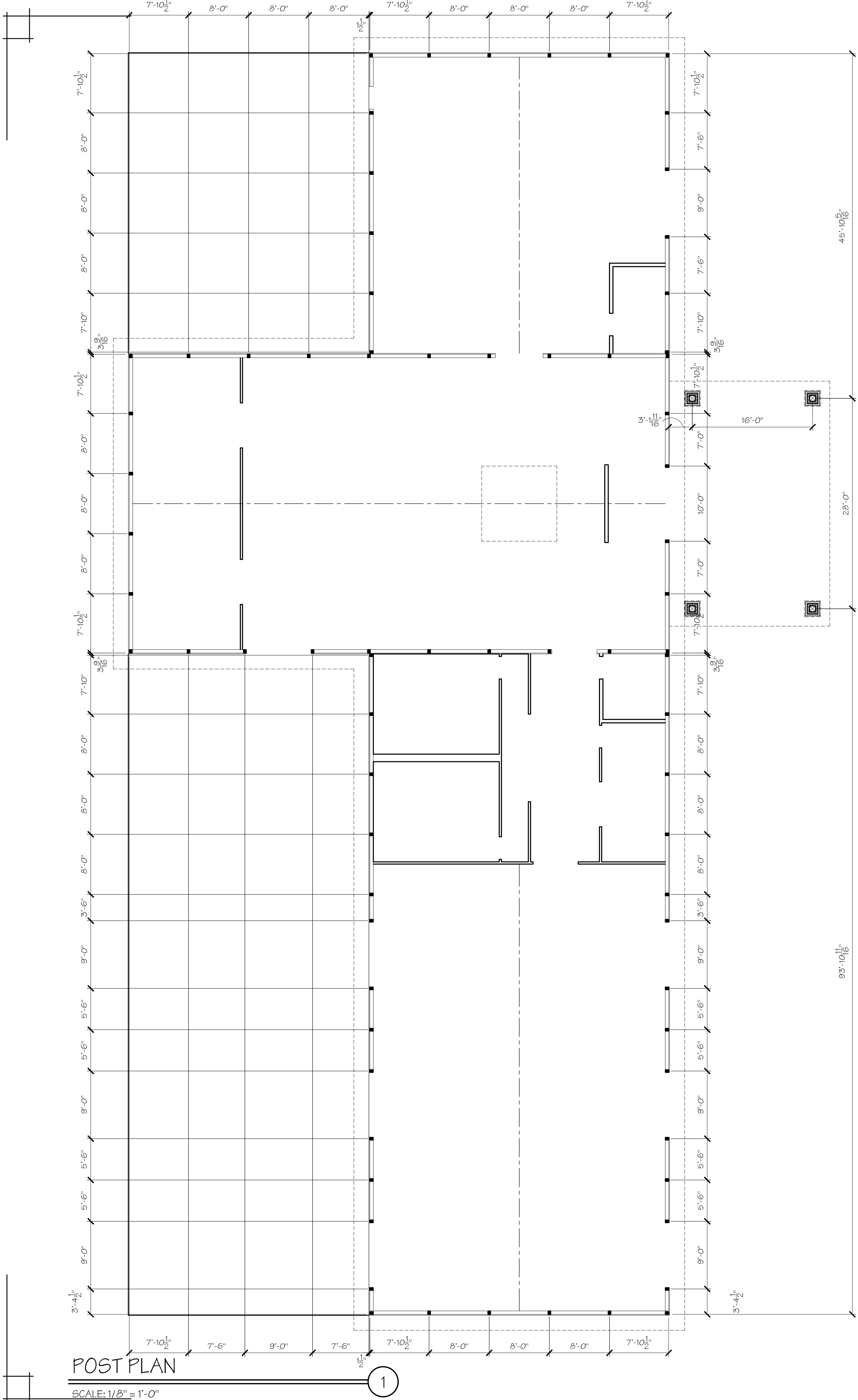
PROJECT TITLE:  
PENDLETON COMMUNITY CENTER

DRAWING NUMBER:

A-1

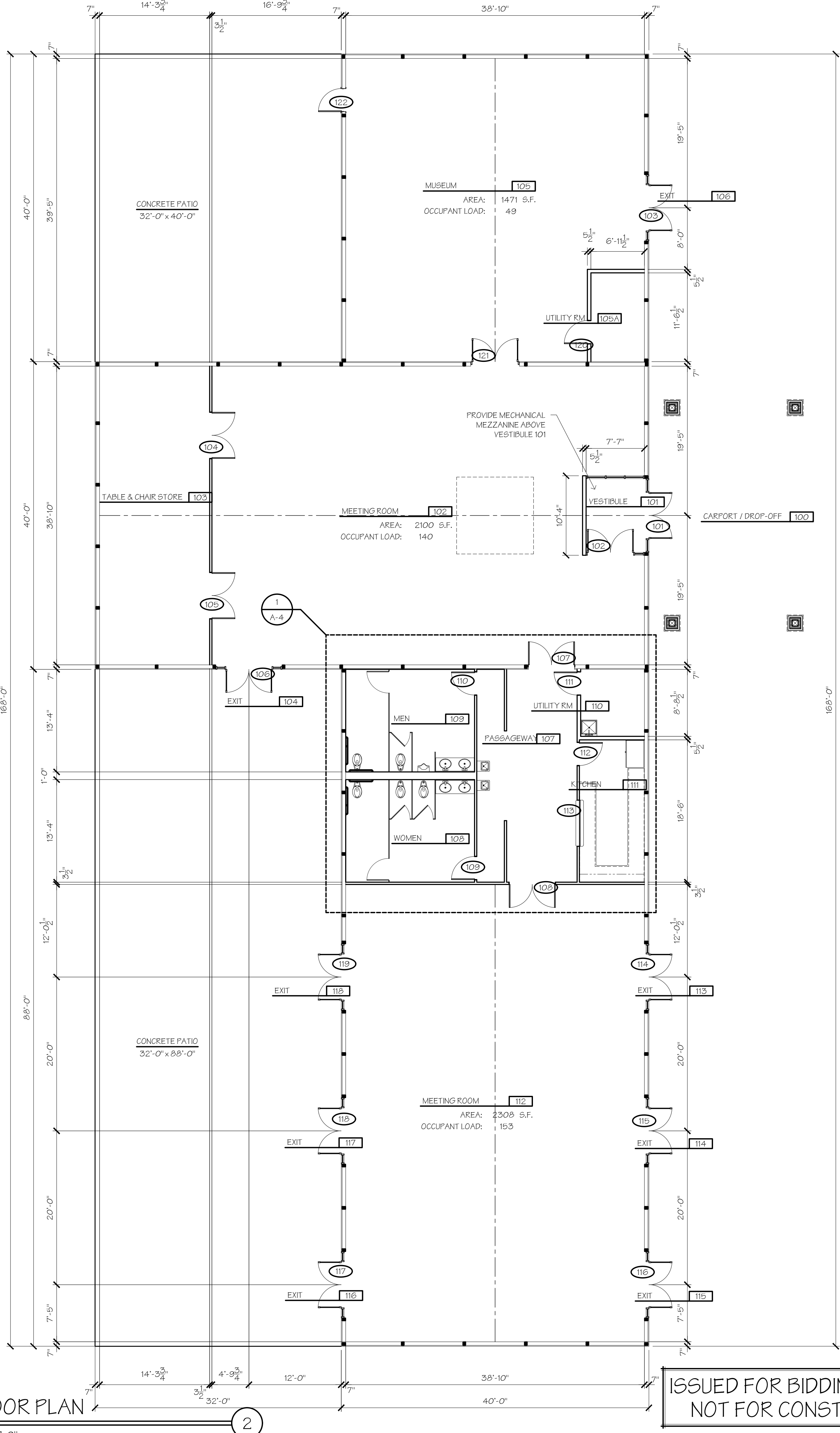
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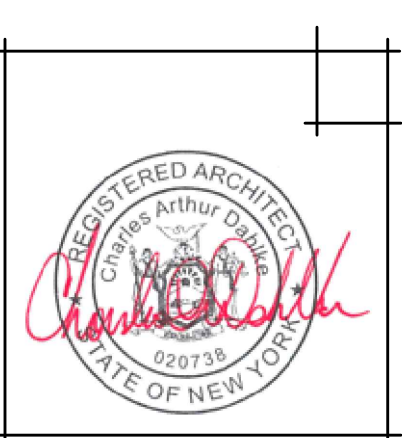


1ST FLOOR PLAN

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



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SHEET 3 OF 19

by designs to build your life on	residential * commercial * church design
CLIENT NAME: TOWN OF PENDLETON	PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK
PROJECT TITLE: PENDLETON COMMUNITY CENTER	CONTENTS ON SHEET: POST PLAN & FLOOR PLAN

DRAWING NUMBER:

A-2

21-049

NOTES: THIS IS A PRELIMINARY DRAWING. IT IS NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES MUST BE APPROVED BY THE ARCHITECT. SCALE: 1/8" = 1'-0"





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CAMPBELL BLVD  
PENDLETON, NEW YORK

CLIENT NAME:  
TOWN OF PENDLETON

PROJECT TITLE:  
PENDLETON COMMUNITY CENTER

CONTENTS ON SHEET:  
FOUNDATION PLAN & SCHEDULES

designs to build your life on

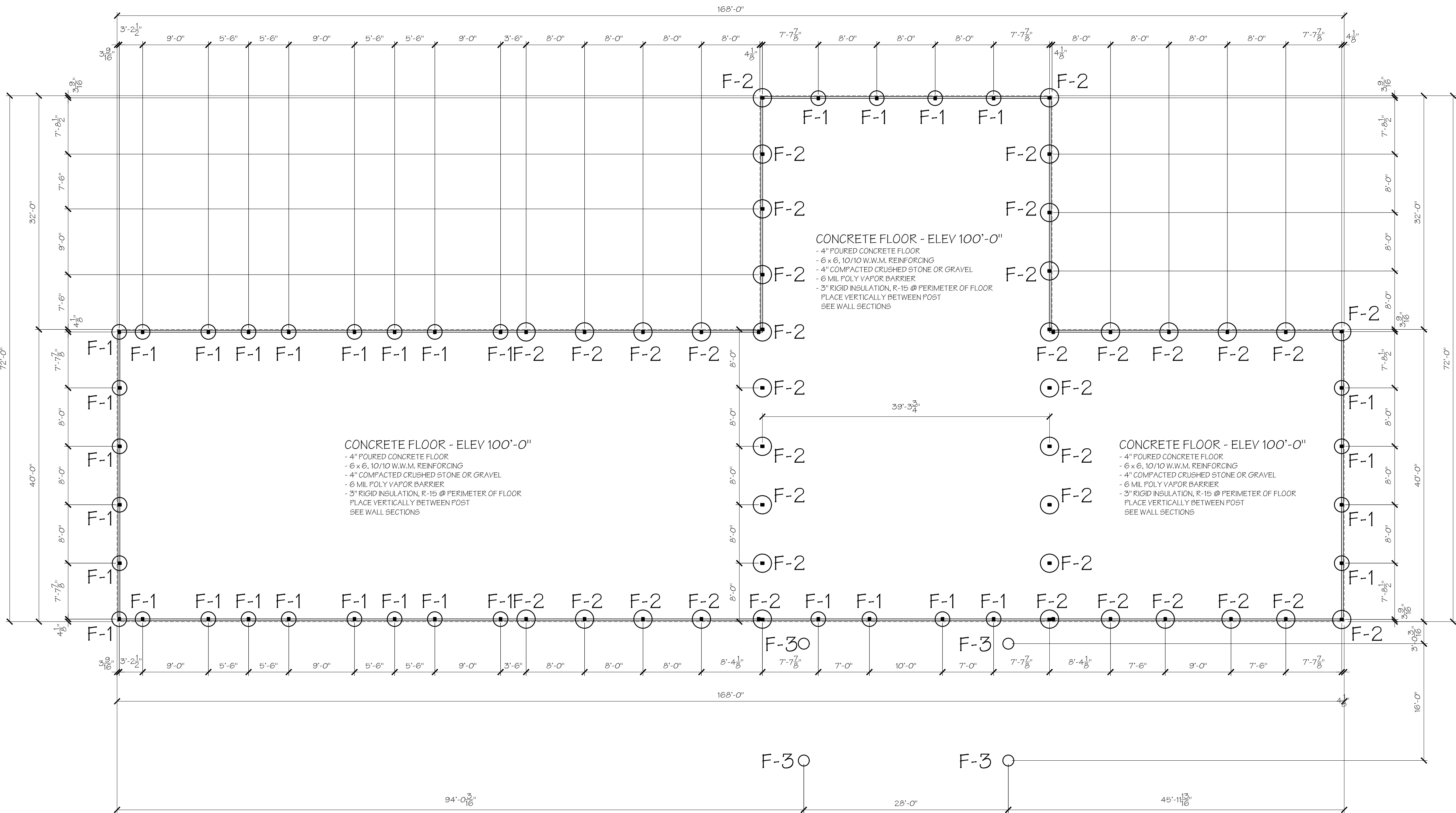
residential \* commercial \* church design

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# FOUNDATION PLAN

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

1

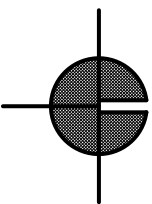


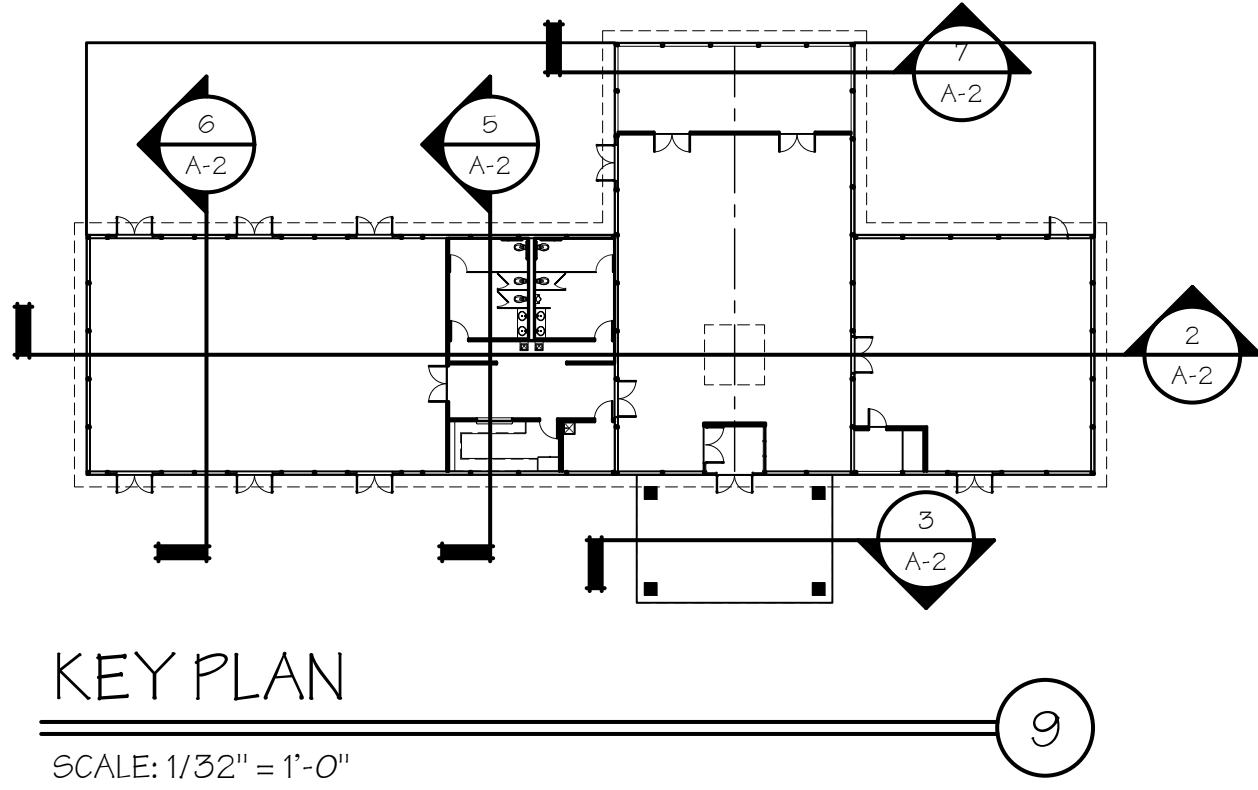
TABLE 1906.2 PRESUMPTIVE LOAD - BEARING VALUES				
CLASS OF MATERIAL	VERTICAL FOUNDATION PRESSURE (PSF)	LATERAL BEARING PRESSURE (PSF/F BELOW NATURAL GRADE)	LATERAL SLIDING RESISTANCE	
			COEFFICIENT OF FRICTION	COHESION (PSF)
CRYSTALLINE BEDROCK	12,000	1,200	0.70	-
SEDIMENTARY AND FOLIATED ROCK	4,000	400	0.35	-
SANDY GRAVEL AND GRAVEL (GW AND GP)	3,000	200	0.35	-
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SF, SM, SC, GM AND GC)	2,000	150	0.25	-
CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500	100	-	130

TABLE 1904.2.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE	
LOCATION OF CONCRETE	SEVERE WEATHERING POTENTIAL
BASEMENT WALLS, FOUNDATIONS & CONCRETE NOT EXPOSED TO WEATHER	2,500 PSI AIR ENTRAINED WHERE SUBJECT TO FREEZING
BSMENT SLABS & INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS	2,500 PSI AIR ENTRAINED WHERE SUBJECT TO FREEZING
BSMENT, FOUNDATION, EXTERIOR WALLS & OTHER VERTICAL CONCRETE WORK EXPOSED TO WEATHER	3,000 PSI AIR ENTRAINED AT 5% TO 7%
PORCHES, CARPORT SLABS & STEPS EXPOSED TO WEATHER, & GARAGE FLOOR SLABS	3,500 PSI AIR ENTRAINED AT 5% TO 7%

FOOTING SCHEDULE		
SYMBOL	SIZE	REMARKS
F-1	24"Ø x 12" THICK	POURED CONCRETE POST FOOTING W/ DRY MIX CONCRETE AROUND BASE OF POST & PIN
F-2	30"Ø x 12" THICK	POURED CONCRETE POST FOOTING W/ DRY MIX CONCRETE AROUND BASE OF POST & PIN
F-3	18"Ø x 42" MIN DEPTH	POURED CONCRETE POST FOOTING @ CARPORT

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## KEY PLAN

SCALE: 1/32" = 1'-0"

### CARPORT ROOF

- STANDING SEAM METAL ROOFING
- 4x6 PLANK ACROSS TRUSSES
- ENGINEERED TIMBER TRUSSES (BY OTHERS) @ 48" O.C. (CERTIFIED TRUSS DESIGN BY MANUF. SUBMIT TRUSS DRAWINGS TO BLDG DEPARTMENT PRIOR TO ERECTION)
- 10x12 TIMBER BEAMS
- CONNECT TO TIMBER POSTS W/ (2) SIMPSON OT TIES @ INSIDE POSTS
- 10x10 TIMBER POSTS
- 4x6 TIMBER BRACES
- 1x4 FASCIA OVER 1x6 SUB-FASCIA
- PROVIDE GUTTERS & DOWNSPOUTS, CONNECT TO 6" DRAIN W/ CLEANOUT, REFER TO SHEET C-106 OF SITE DWGS AS PREPARED BY NUSSBAUMER & CLARK, INC

PROVIDE MORTISE & TENON JOINTS @ BRACE / POST CONNECTION AND BRACE TRUSS CONNECTION

### TYP POST PIER

- PRECAST CONCRETE OR STONE CAP
- SYNTHETIC STONE VENEER, FINAL STYLE & COLOR AS SELECTED BY OWNER
- (3) COURSES OF CONCRETE CHIMNEY BLOCK
- SIMPSON CB 1010 POST BASE

### TYPICAL POST FOOTING

- 18"Ø x 48" EXCAVATION, UNLESS OTHERWISE NOTED
- 18"Ø x 3'-6" POURED CONCRETE FOOTING, UNLESS OTHERWISE NOTED
- SET POST BASE ANCHOR IN UNCURED CONCRETE

## CARPORT POST DETAIL

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

## LONGITUDINAL SECTION

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

## SECTION @ CARPORT

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

## SECTION @ VESTIBULE

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

## SECTION @ RESTROOMS

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

## SECTION @ INFORMAL MTG RM

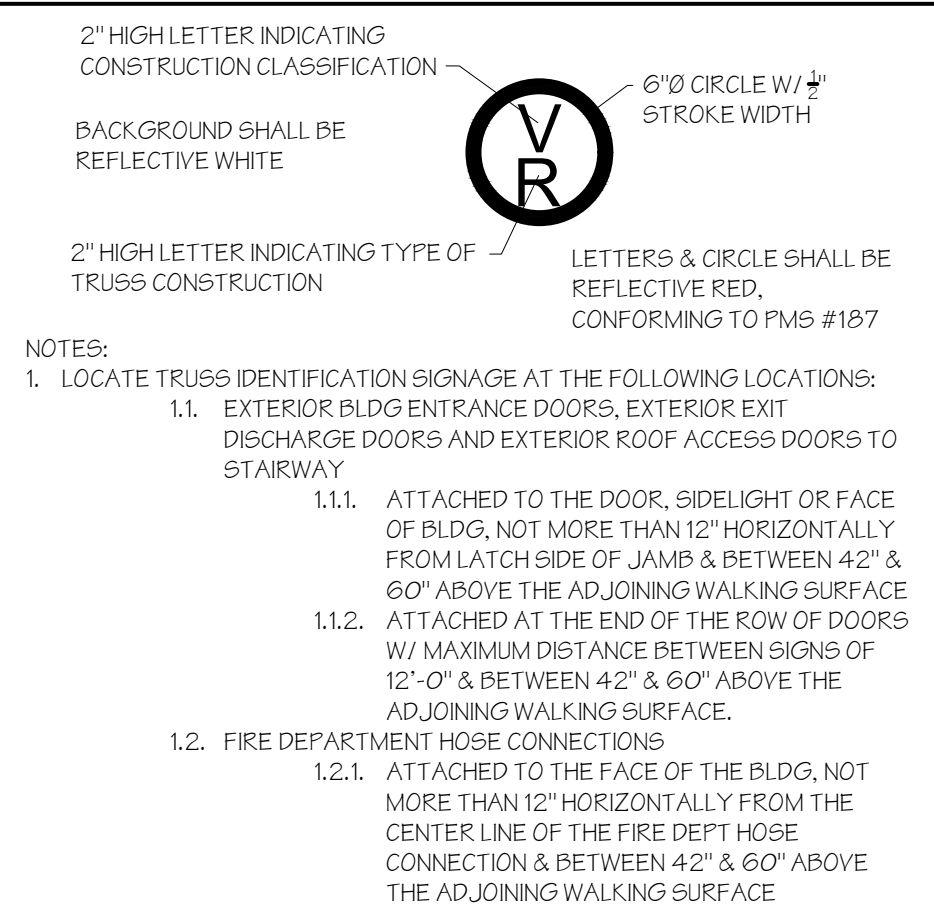
SCALE: 1/8" = 1'-0"

## SECTION @ FORMAL MTG RM

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

## SIGNAGE DETAIL

SCALE: N.T.S.



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SHEET 5 OF 19

residential	commercial	church	design
PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK			
CONTENTS ON SHEET: BUILDING & WALL SECTIONS			

designs to build your life on	TOWN OF PENDLETON	CLIENT NAME:
by design	PENDLETON COMMUNITY CENTER	PROJECT TITLE:

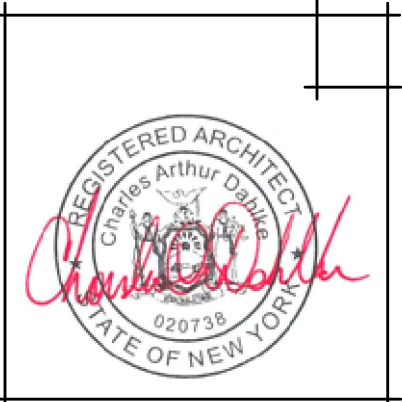
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21-049

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SHEET 6 OF 19

designs	to	build	your	life	on	church	design
residential	*	commercial	*	church	design		
PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK							CONTENTS ON SHEET: WALL SECTIONS

CLIENT NAME: TOWN OF PENDLETON	PROJECT TITLE: PENDLETON COMMUNITY CENTER
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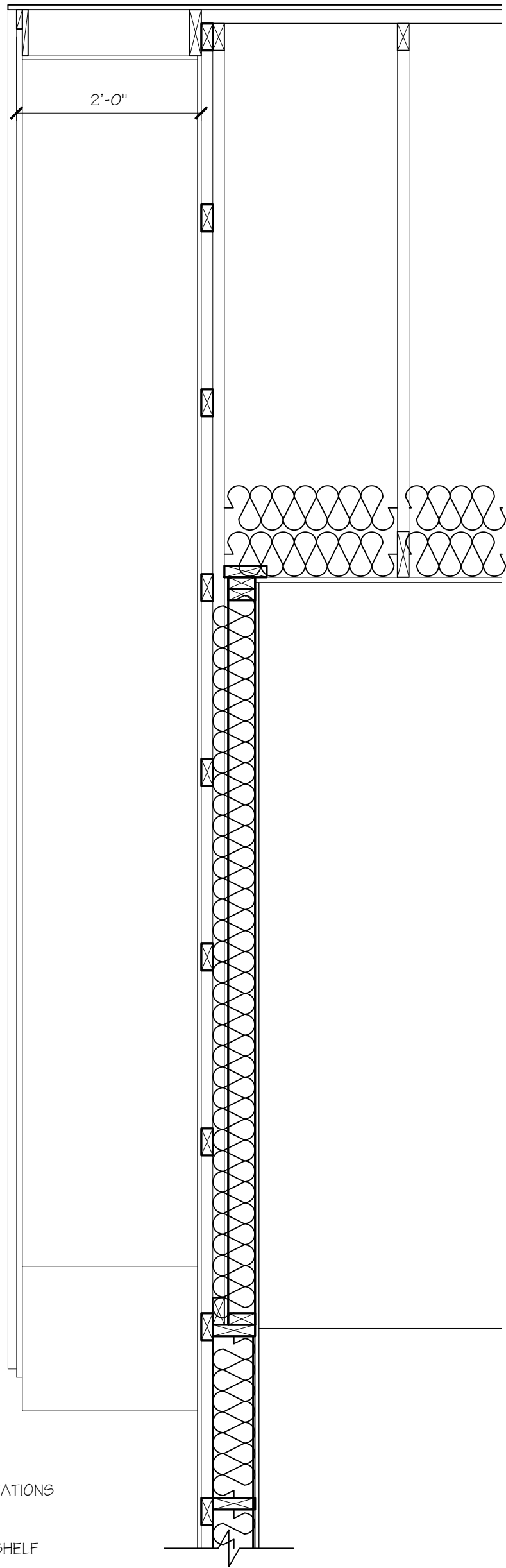
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21-049

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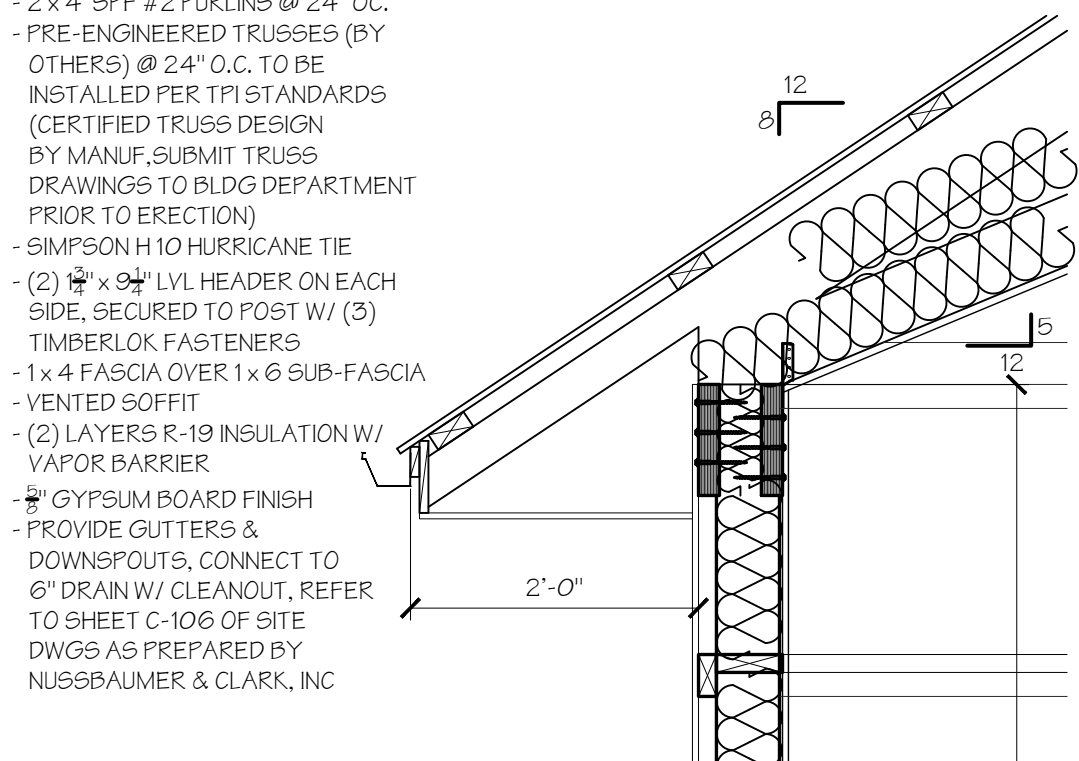
#### TYPICAL ROOF

- CONTINUOUS VENTED RIDGE CAP
- STANDING SEAM METAL ROOFING
- 2 x 4 SPF #2 PURLINS @ 24" O.C.
- PRE-ENGINEERED TRUSSES (BY OTHERS) @ 24" O.C. TO BE INSTALLED PER TPI STANDARDS (CERTIFIED TRUSS DESIGN BY MANUF. SUBMIT TRUSS DRAWINGS TO BLDG DEPARTMENT PRIOR TO ERECTION)
- SIMPSON H10 HURRICANE TIE
- (2) 12" x 94" LVL HEADER ON EACH SIDE, SECURED TO POST W/ (3) TIMBERLOK FASTENERS
- 1 x 4 FASCIA OVER 1 x 6 SUB-FASCIA
- VENTED SOFFIT
- (2) LAYERS R-19 INSULATION W/ VAPOR BARRIER
- GYPSUM BOARD FINISH
- PROVIDE GUTTERS & DOWNSPOUTS, CONNECT TO 6" DRAIN W/ CLEANOUT, REFER TO SHEET C-106 OF SITE DWGS AS PREPARED BY NUSSBAUMER & CLARK, INC



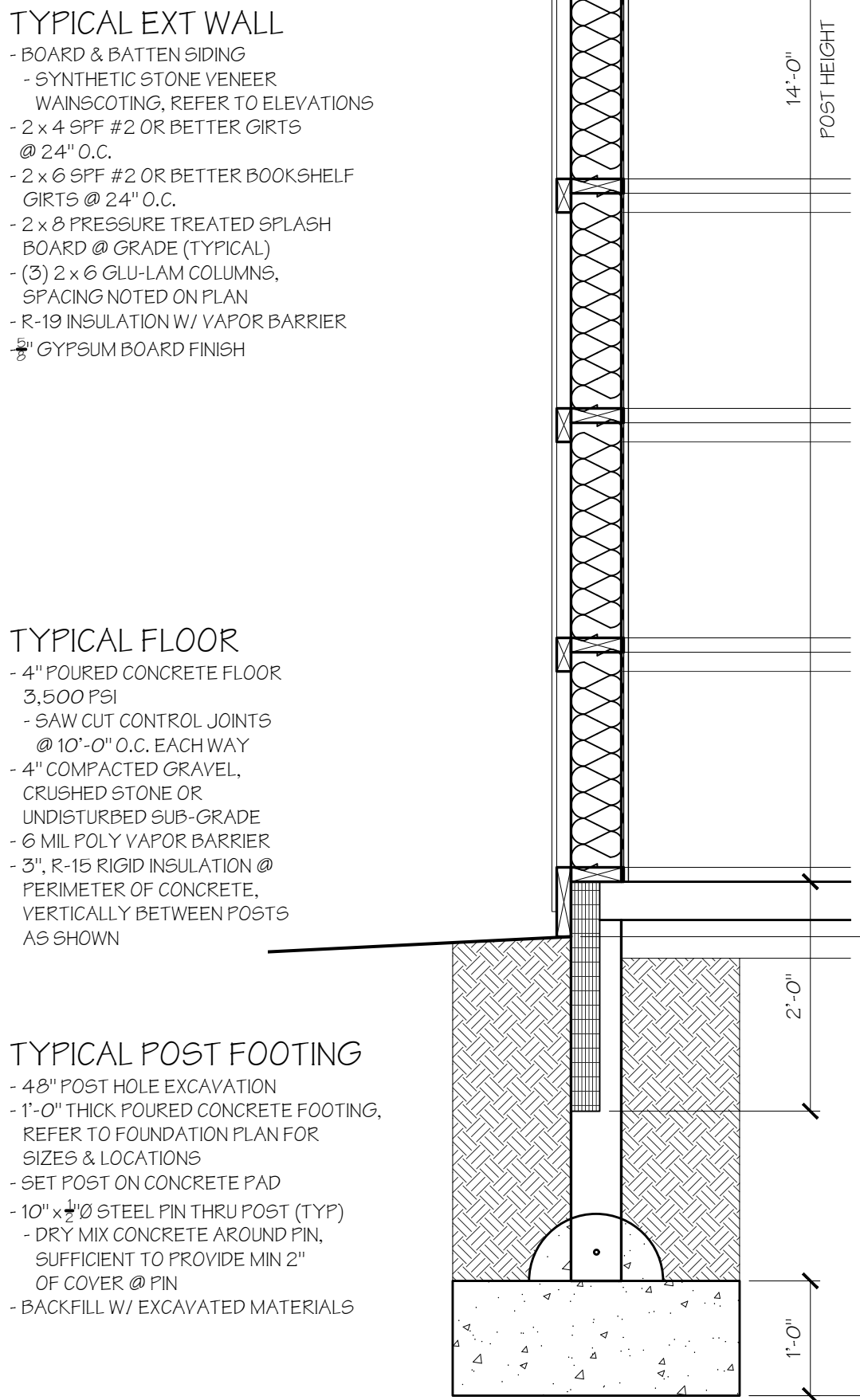
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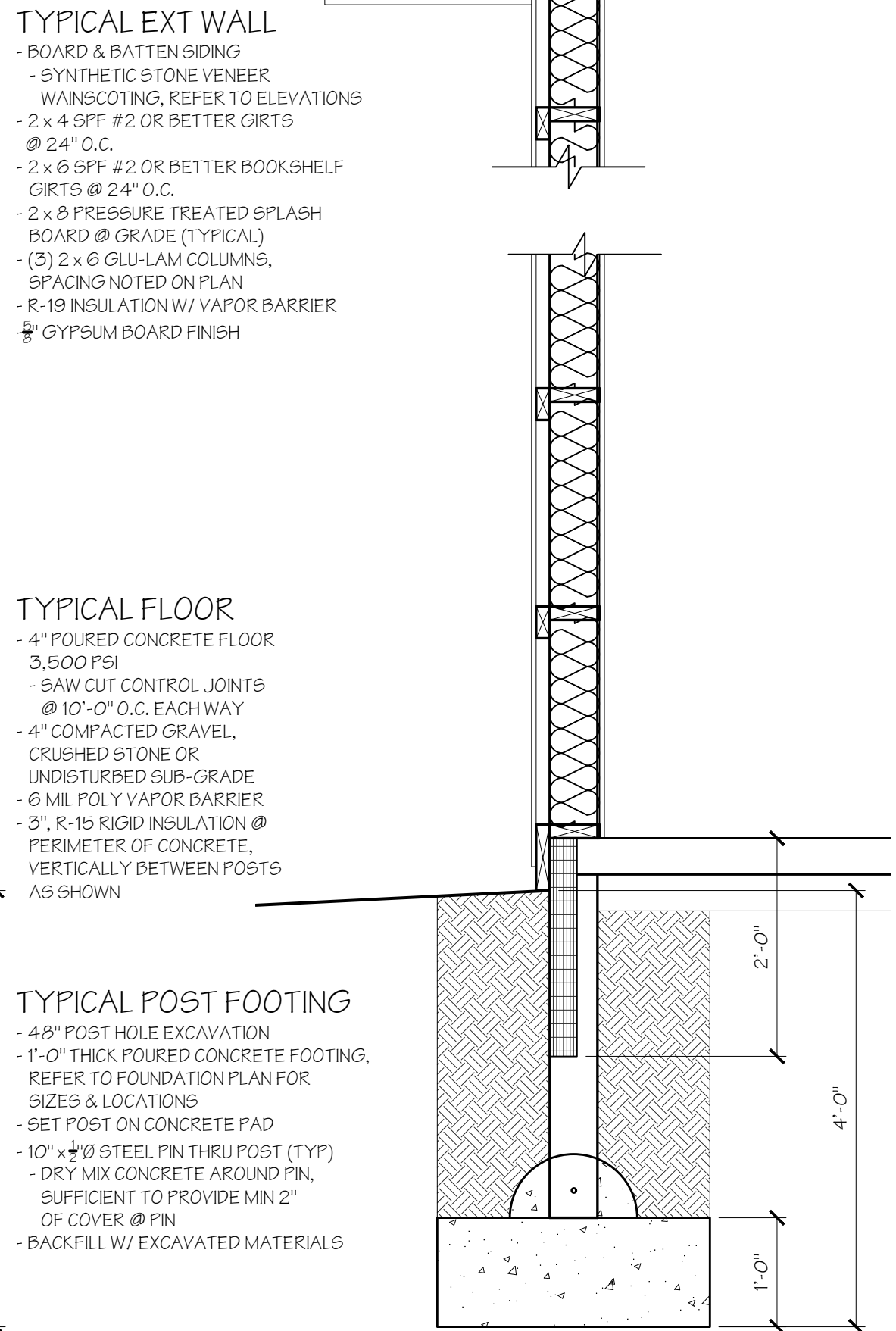
#### TYPICAL EXT WALL

- BOARD & BATTEN SIDING
- SYNTHETIC STONE VENEER
- WAINSCOTING, REFER TO ELEVATIONS
- 2 x 4 SPF #2 OR BETTER GIRTS @ 24" O.C.
- 2 x 6 SPF #2 OR BETTER BOOKSHELF GIRTS @ 24" O.C.
- 2 x 8 PRESSURE TREATED SPLASH BOARD @ GRADE (TYPICAL)
- (3) 2 x 6 GLU-LAM COLUMNS, SPACING NOTED ON PLAN
- R-19 INSULATION W/ VAPOR BARRIER
- GYPSUM BOARD FINISH



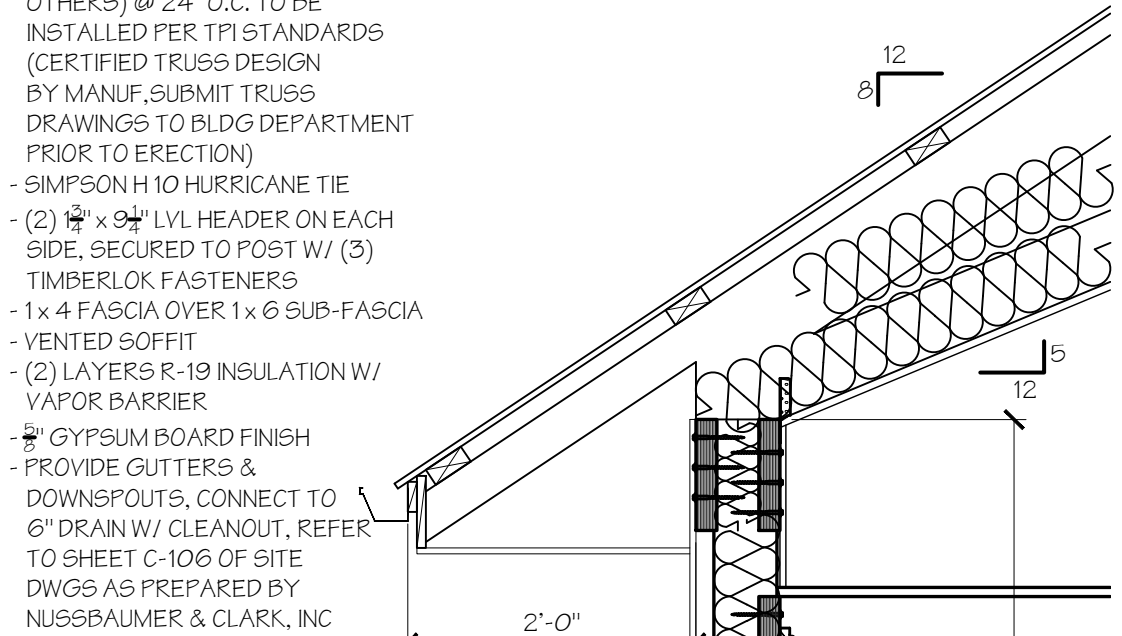
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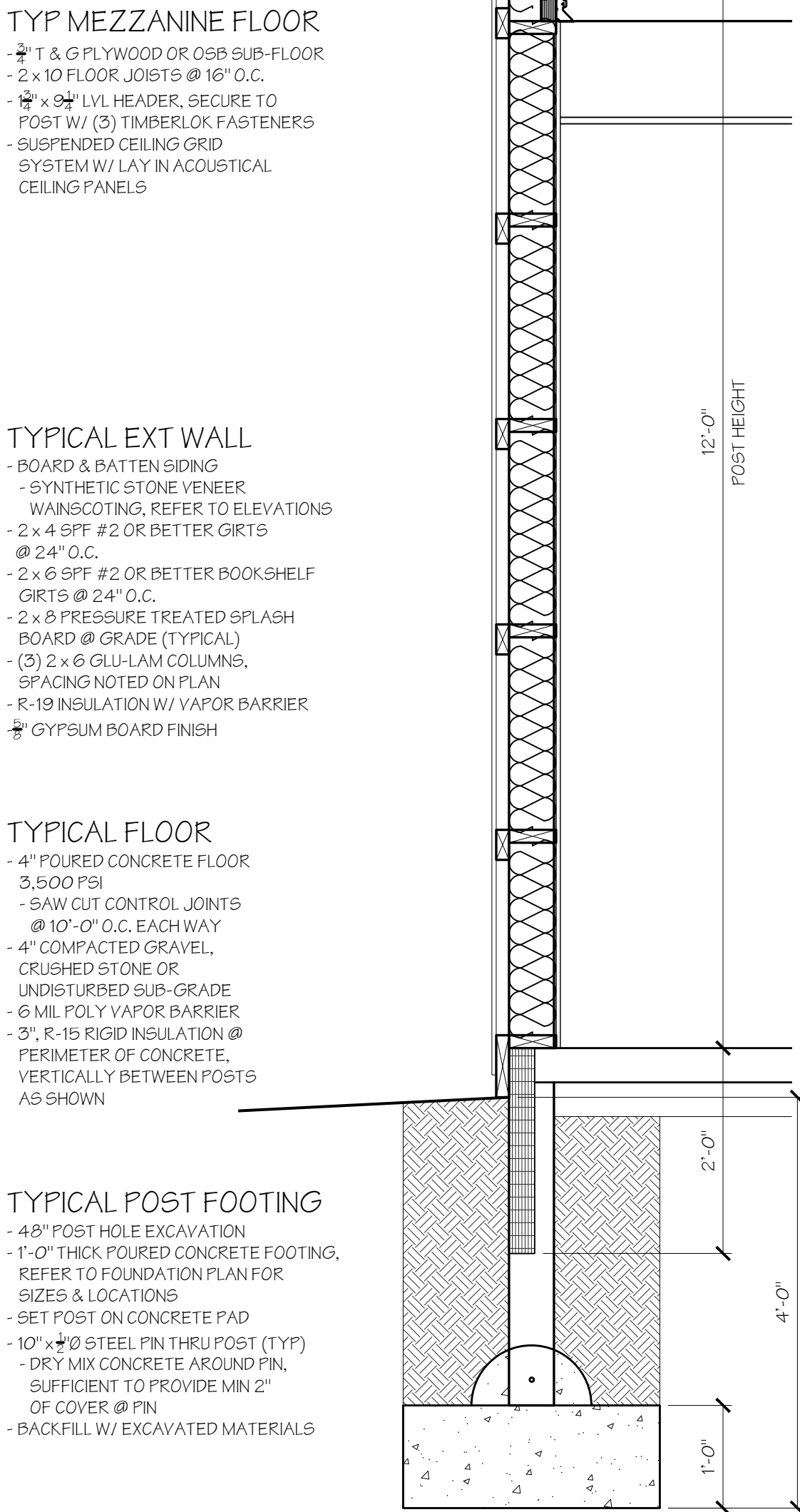
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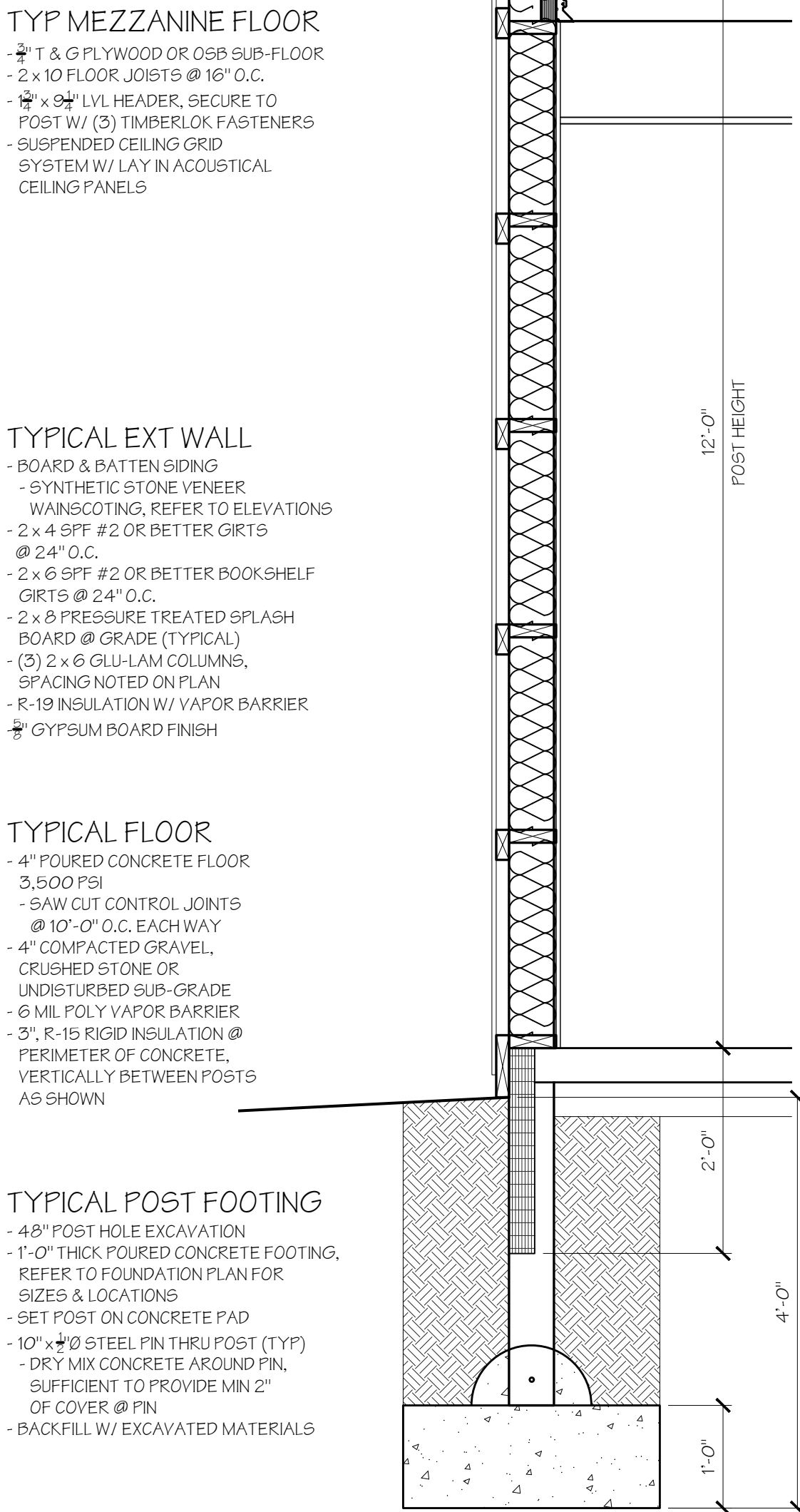
#### TYP MEZZANINE FLOOR

- 1/2" T & G PLYWOOD OR OSB SUB-FLOOR
- 2 x 10 FLOOR JOISTS @ 16" O.C.
- 12" x 94" LVL HEADER, SECURE TO POST W/ (3) TIMBERLOK FASTENERS
- SUSPENDED CEILING GRID SYSTEM W/ LAY IN ACOUSTICAL CEILING PANELS



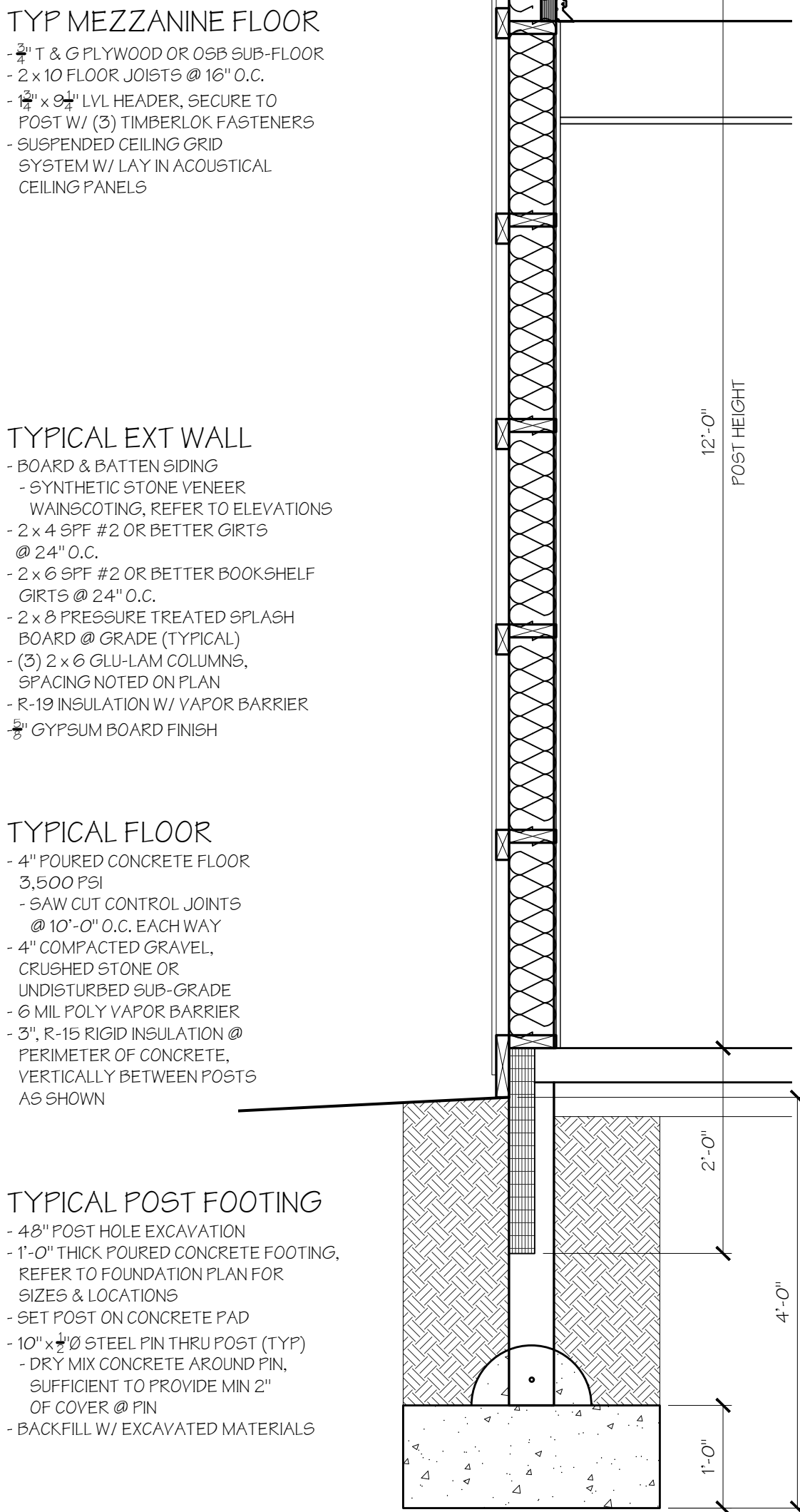
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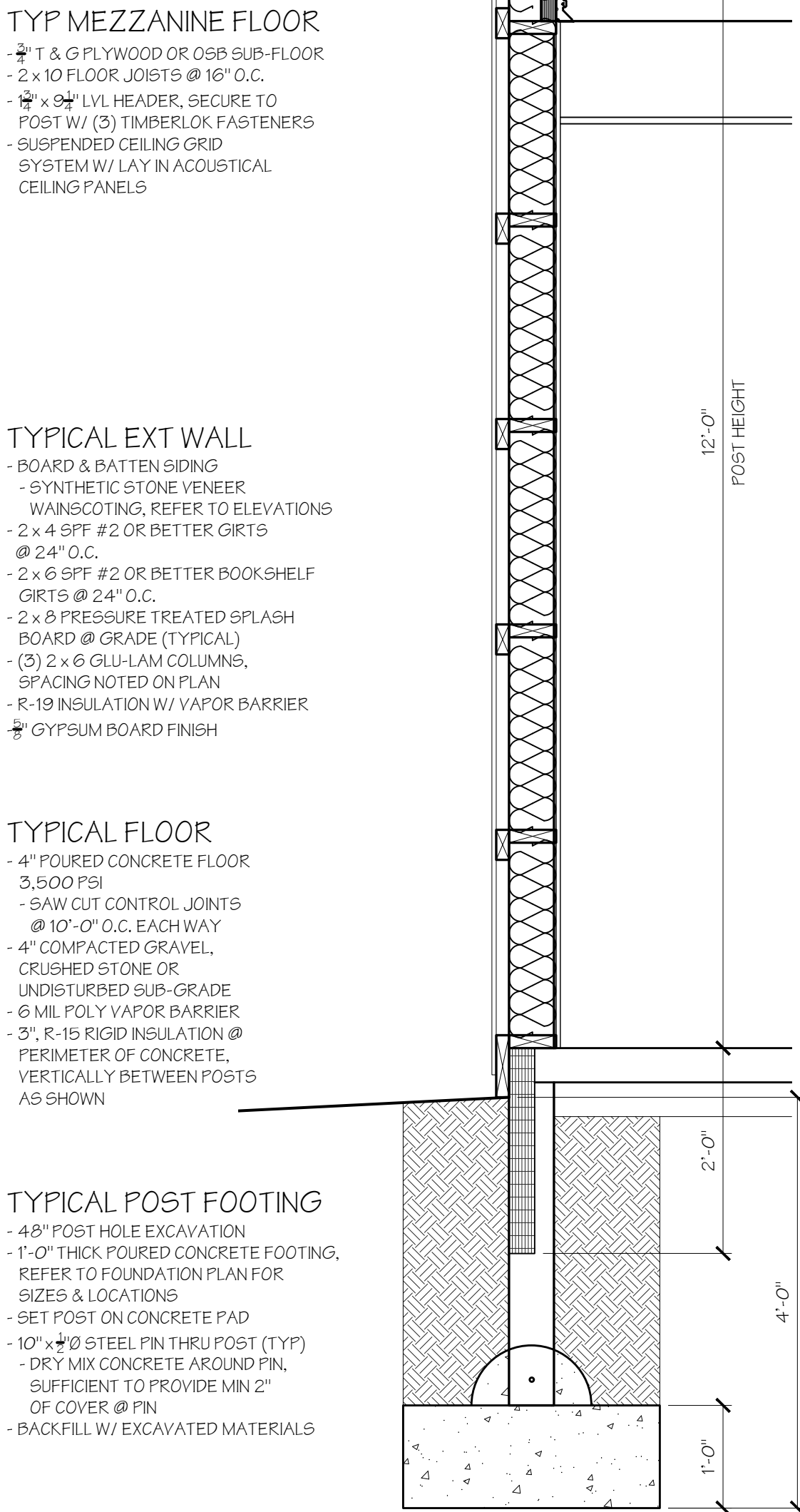
#### TYPICAL FLOOR

- 4" POURED CONCRETE FLOOR 3,500 PSI
- SAW CUT CONTROL JOINTS @ 10'-0" O.C. EACH WAY
- 4" COMPACTED GRAVEL, CRUSHED STONE OR UNDISTURBED SUB-GRADE
- 6 MIL POLY VAPOR BARRIER
- 3" R-19 RIGID INSULATION @ PERIMETER OF CONCRETE, VERTICALLY BETWEEN POSTS AS SHOWN



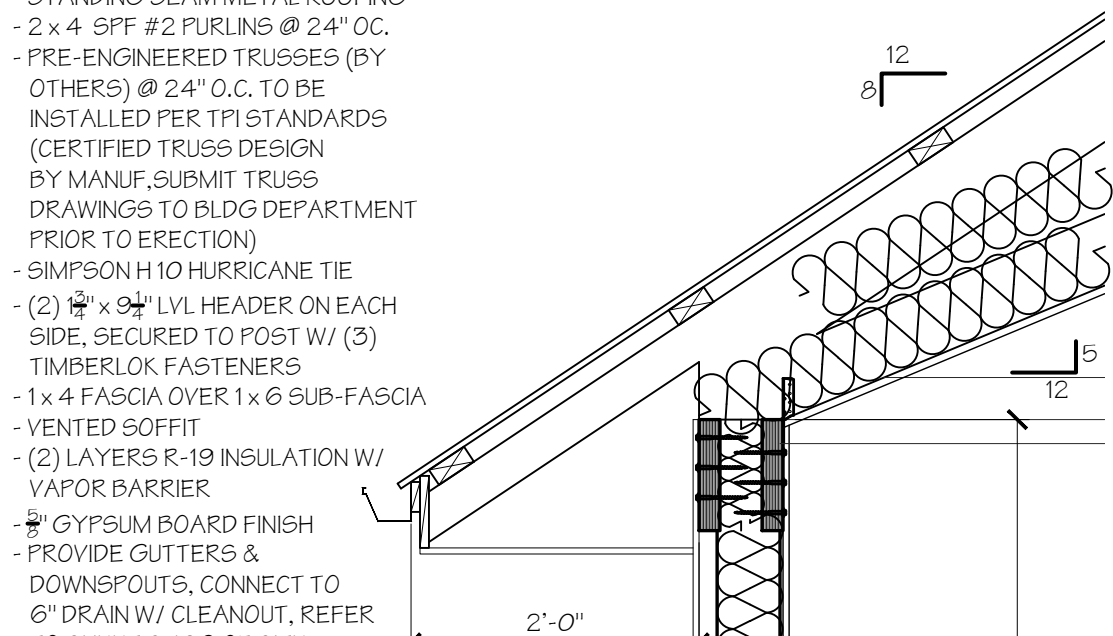
#### TYPICAL POST FOOTING

- 48" POST HOLE EXCAVATION
- 1'-0" THICK POURED CONCRETE FOOTING, REFER TO FOUNDATION PLAN FOR SIZES & LOCATIONS
- SET POST ON CONCRETE PAD
- 10" x 10" STEEL PIN THRU POST (TYP)
- DRY MIX CONCRETE AROUND PIN, SUFFICIENT TO PROVIDE MIN 2" OF COVER @ PIN
- BACKFILL W/ EXCAVATED MATERIALS



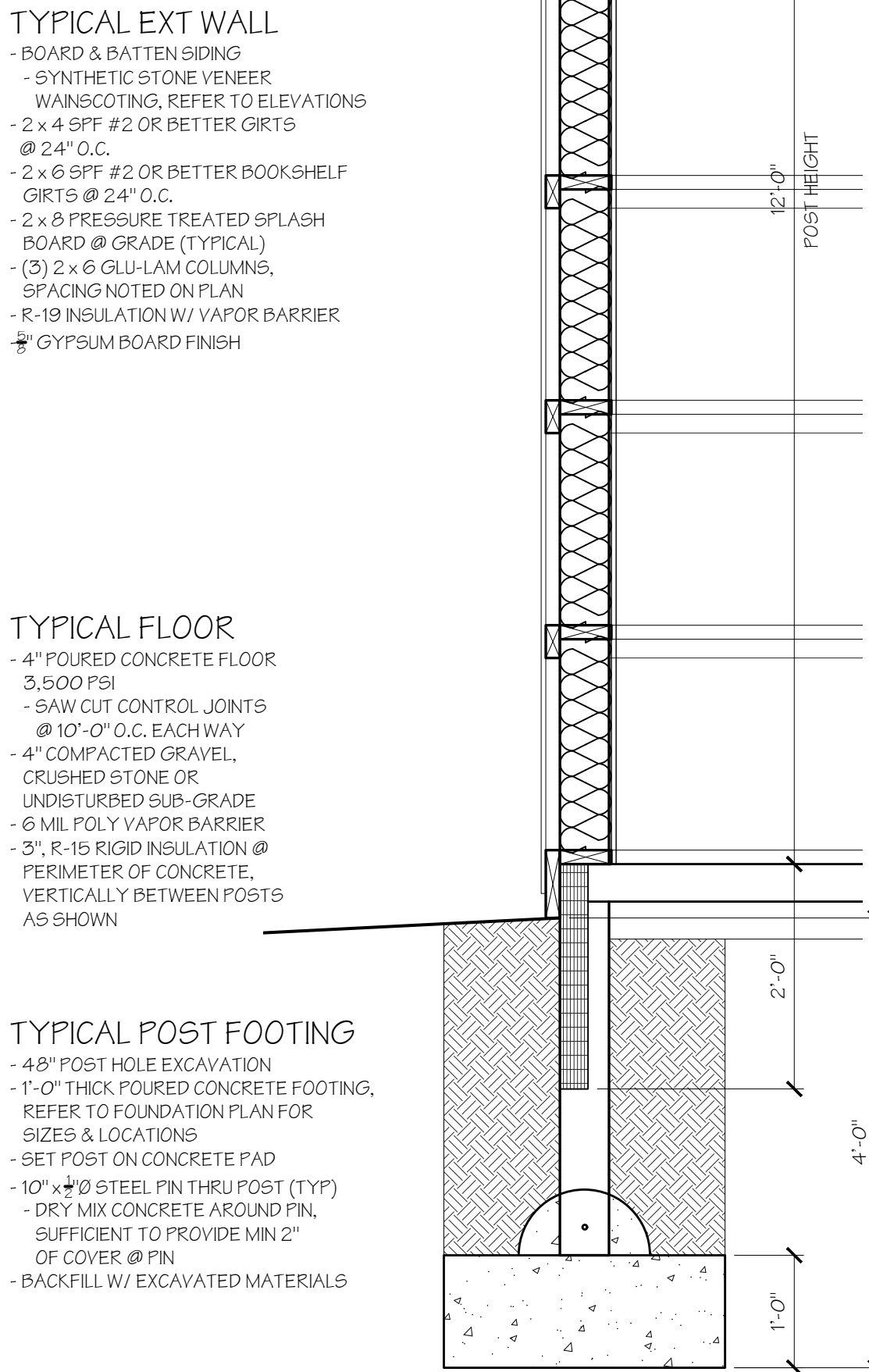
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- STANDING SEAM METAL ROOFING
- 2 x 4 SPF #2 PURLINS @ 24" O.C.
- PRE-ENGINEERED TRUSSES (BY OTHERS) @ 24" O.C. TO BE INSTALLED PER TPI STANDARDS (CERTIFIED TRUSS DESIGN BY MANUF. SUBMIT TRUSS DRAWINGS TO BLDG DEPARTMENT PRIOR TO ERECTION)
- SIMPSON H10 HURRICANE TIE
- (2) 12" x 94" LVL HEADER ON EACH SIDE, SECURED TO POST W/ (3) TIMBERLOK FASTENERS
- 1 x 4 FASCIA OVER 1 x 6 SUB-FASCIA
- VENTED SOFFIT
- (2) LAYERS R-19 INSULATION W/ VAPOR BARRIER
- GYPSUM BOARD FINISH
- PROVIDE GUTTERS & DOWNSPOUTS, CONNECT TO 6" DRAIN W/ CLEANOUT, REFER TO SHEET C-106 OF SITE DWGS AS PREPARED BY NUSSBAUMER & CLARK, INC



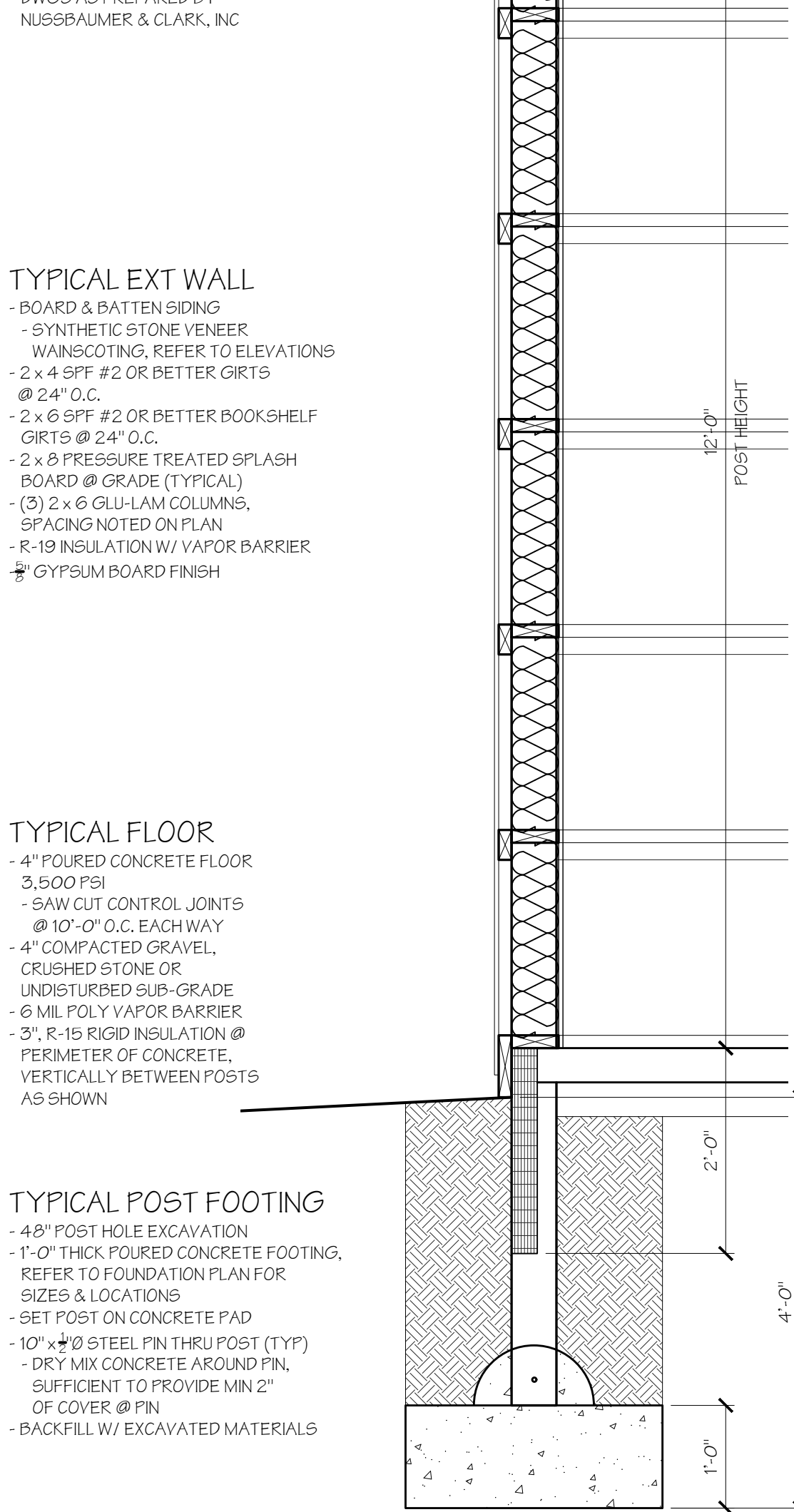
#### TYPICAL EXT WALL

- BOARD & BATTEN SIDING
- SYNTHETIC STONE VENEER
- WAINSCOTING, REFER TO ELEVATIONS
- 2 x 4 SPF #2 OR BETTER GIRTS @ 24" O.C.
- 2 x 6 SPF #2 OR BETTER BOOKSHELF GIRTS @ 24" O.C.
- 2 x 8 PRESSURE TREATED SPLASH BOARD @ GRADE (TYPICAL)
- (3) 2 x 6 GLU-LAM COLUMNS, SPACING NOTED ON PLAN
- R-19 INSULATION W/ VAPOR BARRIER
- GYPSUM BOARD FINISH



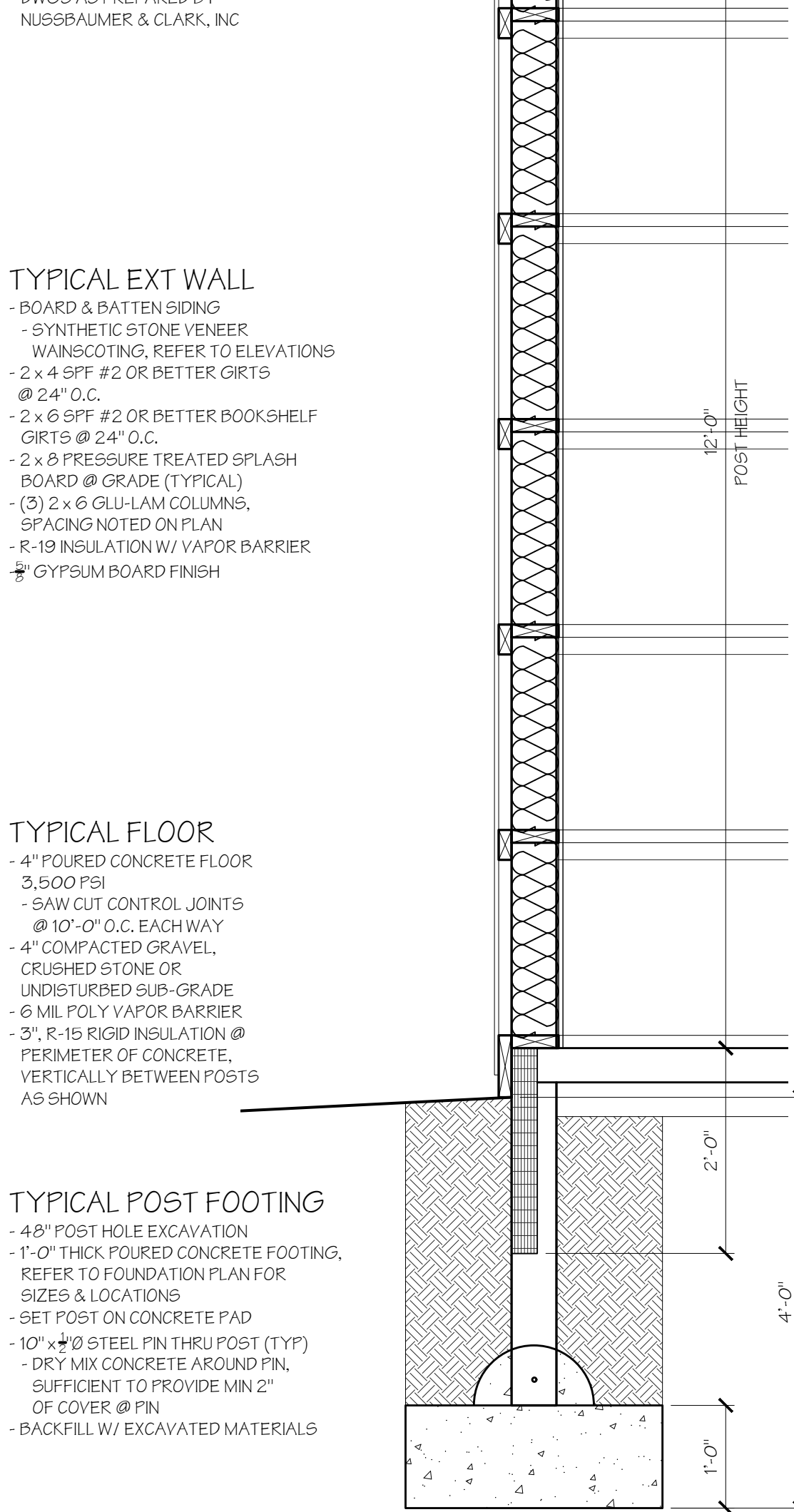
#### TYPICAL FLOOR

- 4" POURED CONCRETE FLOOR 3,500 PSI
- SAW CUT CONTROL JOINTS @ 10'-0" O.C. EACH WAY
- 4" COMPACTED GRAVEL, CRUSHED STONE OR UNDISTURBED SUB-GRADE
- 6 MIL POLY VAPOR BARRIER
- 3" R-19 RIGID INSULATION @ PERIMETER OF CONCRETE, VERTICALLY BETWEEN POSTS AS SHOWN



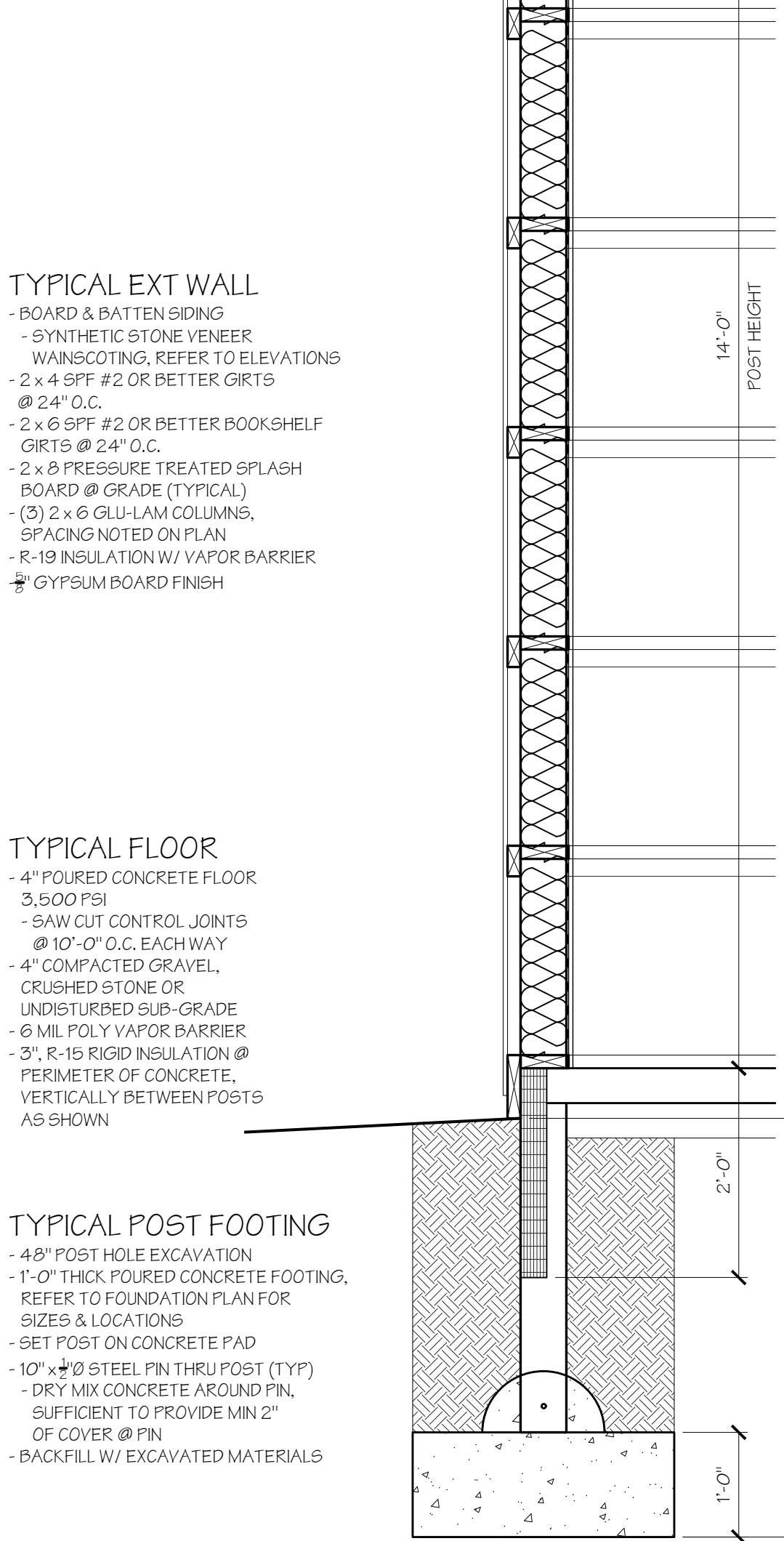
#### TYPICAL POST FOOTING

- 48" POST HOLE EXCAVATION
- 1'-0" THICK POURED CONCRETE FOOTING, REFER TO FOUNDATION PLAN FOR SIZES & LOCATIONS
- SET POST ON CONCRETE PAD
- 10" x 10" STEEL PIN THRU POST (TYP)
- DRY MIX CONCRETE AROUND PIN, SUFFICIENT TO PROVIDE MIN 2" OF COVER @ PIN
- BACKFILL W/ EXCAVATED MATERIALS



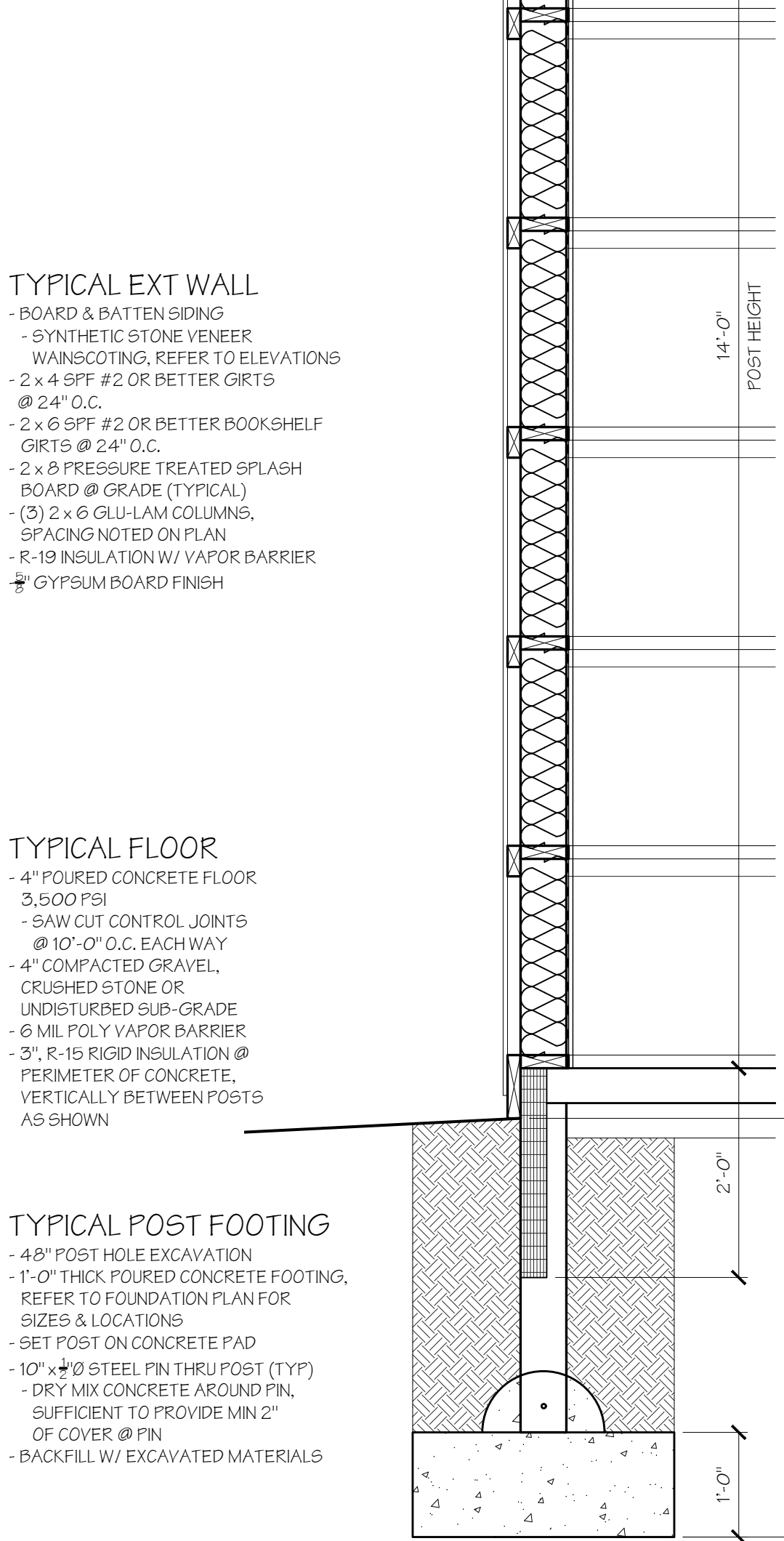
#### TYPICAL FLOOR

- 4" POURED CONCRETE FLOOR 3,500 PSI
- SAW CUT CONTROL JOINTS @ 10'-0" O.C. EACH WAY
- 4" COMPACTED GRAVEL, CRUSHED STONE OR UNDISTURBED SUB-GRADE
- 6 MIL POLY VAPOR BARRIER
- 3" R-19 RIGID INSULATION @ PERIMETER OF CONCRETE, VERTICALLY BETWEEN POSTS AS SHOWN



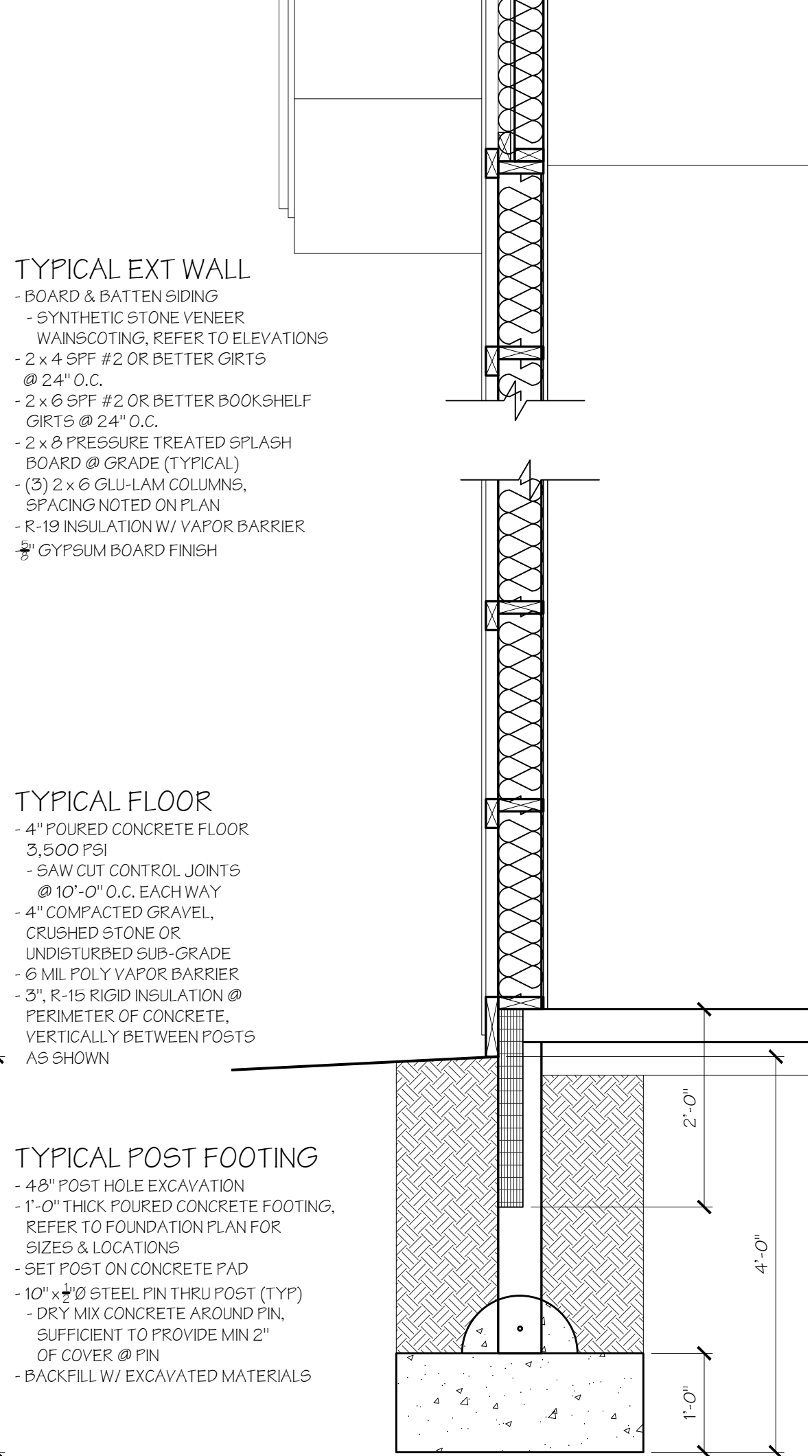
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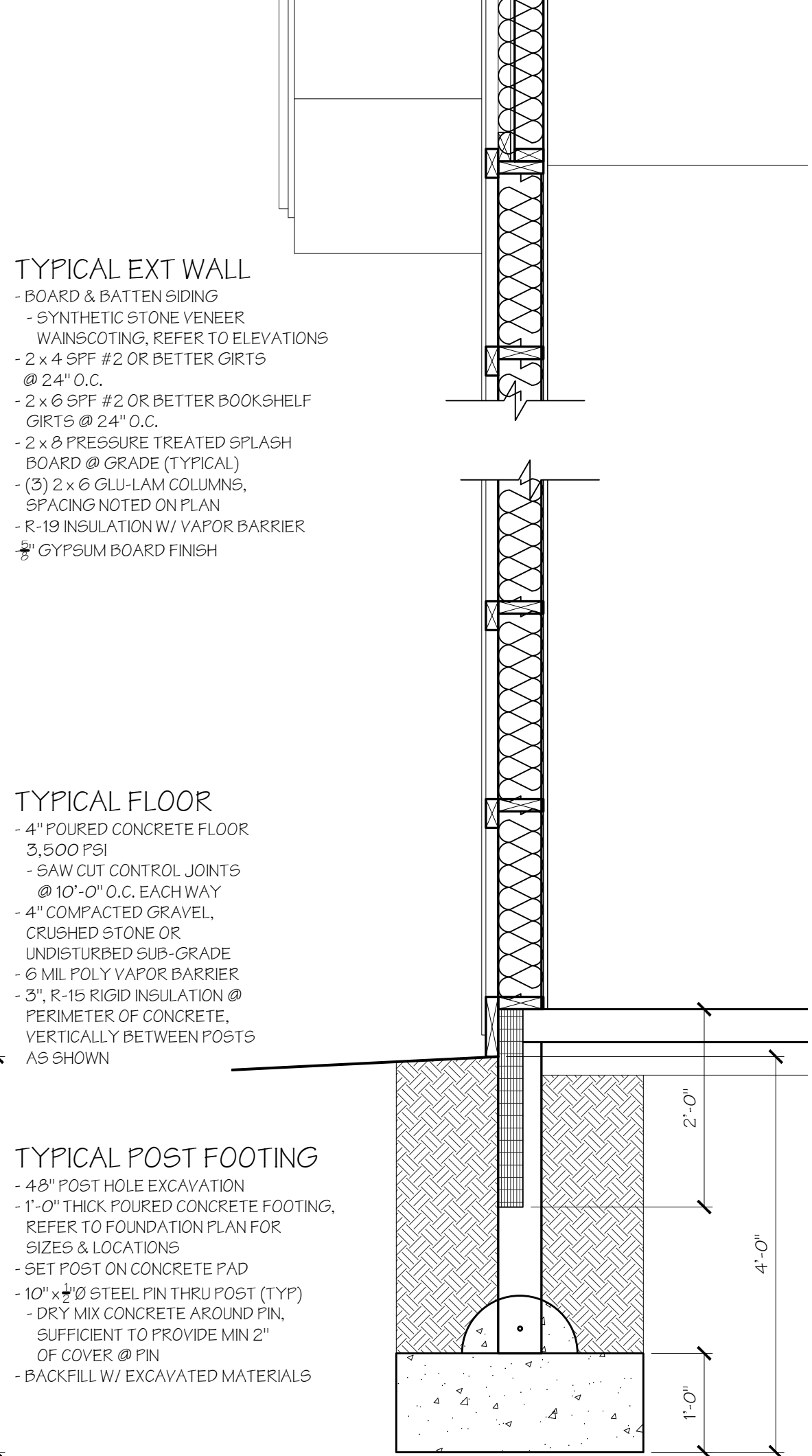
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- 4" COMPACTED GRAVEL, CRUSHED STONE OR UNDISTURBED SUB-GRADE
- 6 MIL POLY VAPOR BARRIER
- 3" R-19 RIGID INSULATION @ PERIMETER OF CONCRETE, VERTICALLY BETWEEN POSTS AS SHOWN



#### TYPICAL POST FOOTING

- 48" POST HOLE EXCAVATION
- 1'-0" THICK POURED CONCRETE FOOTING, REFER TO FOUNDATION PLAN FOR SIZES & LOCATIONS
- SET POST ON CONCRETE PAD
- 10" x 10" STEEL PIN THRU POST (TYP)
- DRY MIX CONCRETE AROUND PIN, SUFFICIENT TO PROVIDE MIN 2" OF COVER @ PIN
- BACKFILL W/ EXCAVATED MATERIALS



WALL SECTION 2

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

WALL SECTION 3

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

WALL SECTION 4

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

WALL SECTION 5

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

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NOT FOR CONSTRUCTION



ISSUED FOR BIDDING 3-3-23  
NOT FOR CONSTRUCTION

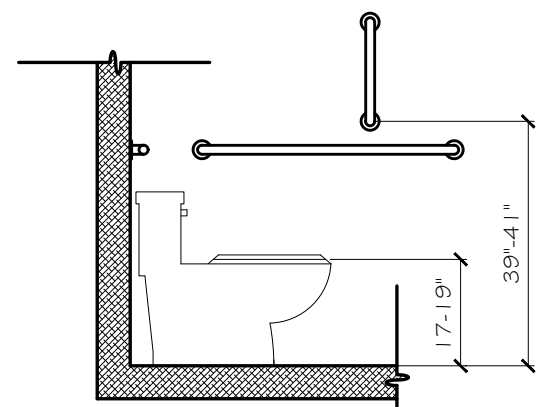


Fig. G04.4  
HEIGHT OF WATER CLOSET

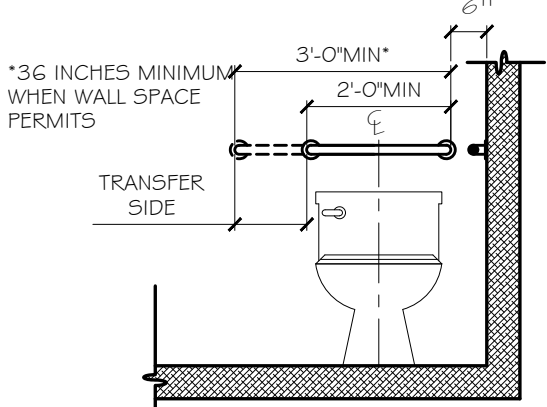
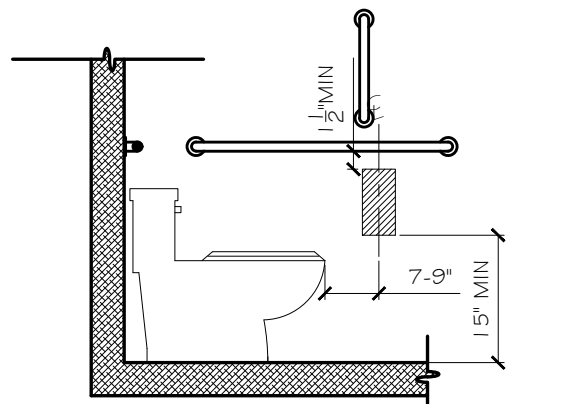
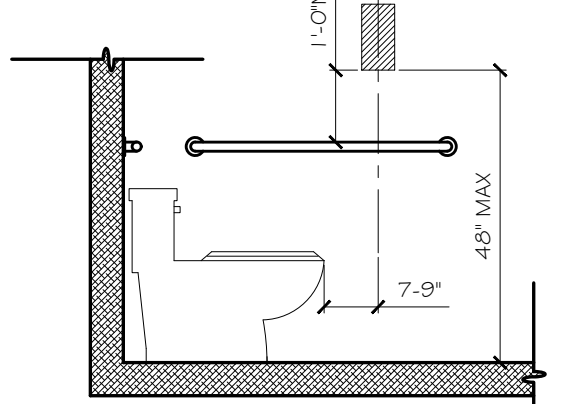


Fig. G04.5.2  
REAR WALL GRAB BAR FOR WATER CLOSET



(A) BELOW GRAB BAR



(B) ABOVE GRAB BAR

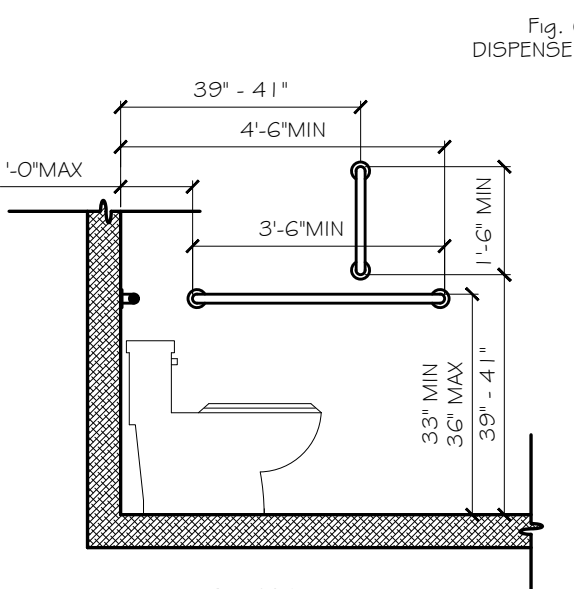


Fig. G04.7  
DISPENSER LOCATION

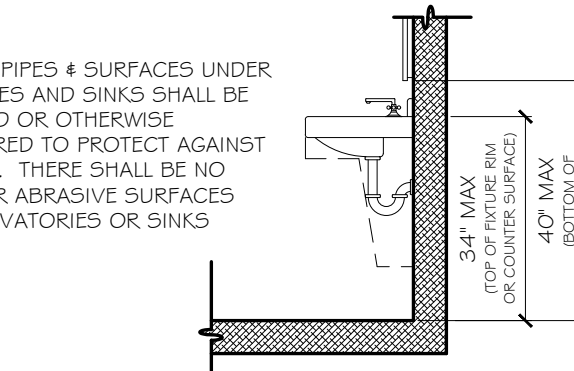


Fig. G04.5.1  
SIDE WALL GRAB BAR FOR WATER CLOSET

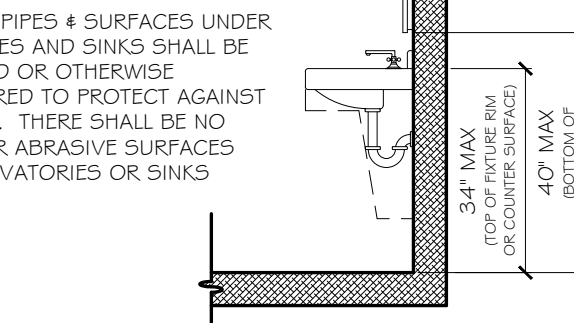


Fig. G04.8.3  
TOILET COMPARTMENT DOORS

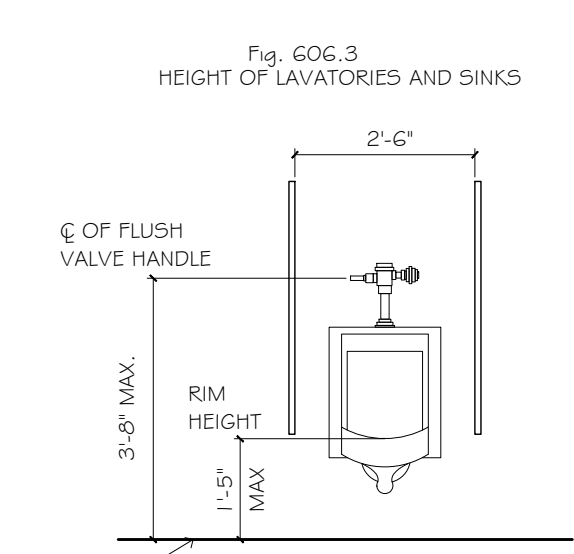


Fig. G02.3  
HEIGHT OF LAVATORIES AND SINKS

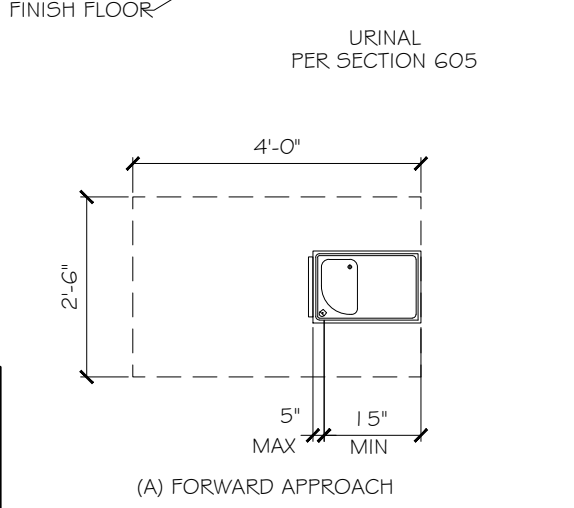
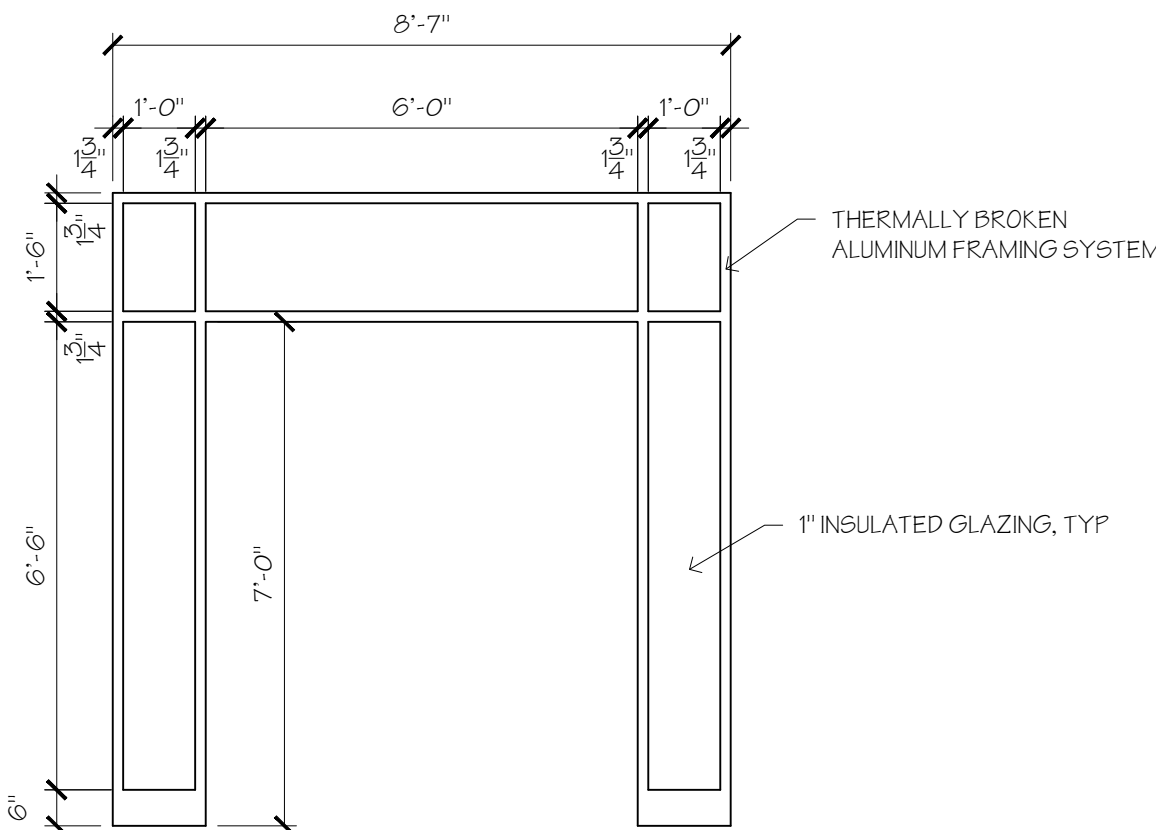


Fig. G02.5  
DRINKING FOUNTAIN SPOUT LOCATION

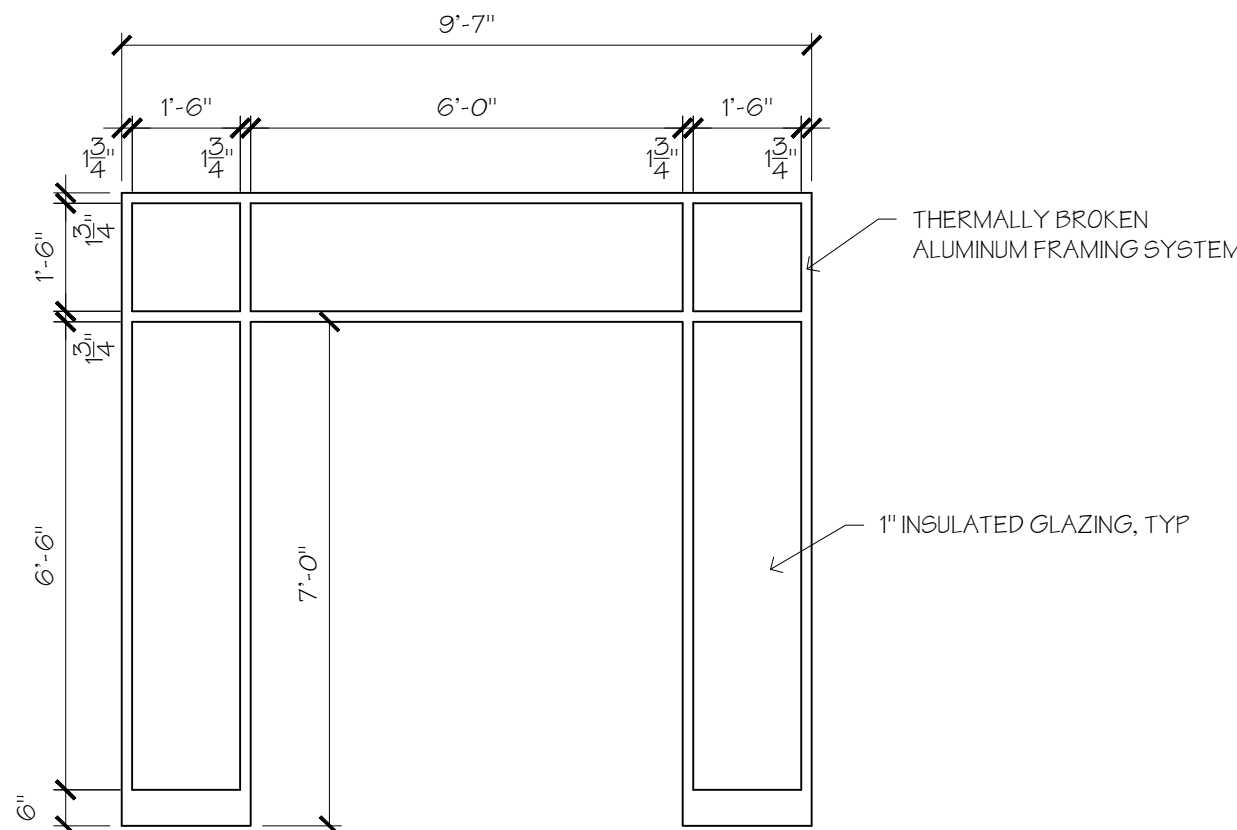
## ACCESSIBILITY DETAILS

SCALE: N.T.S.



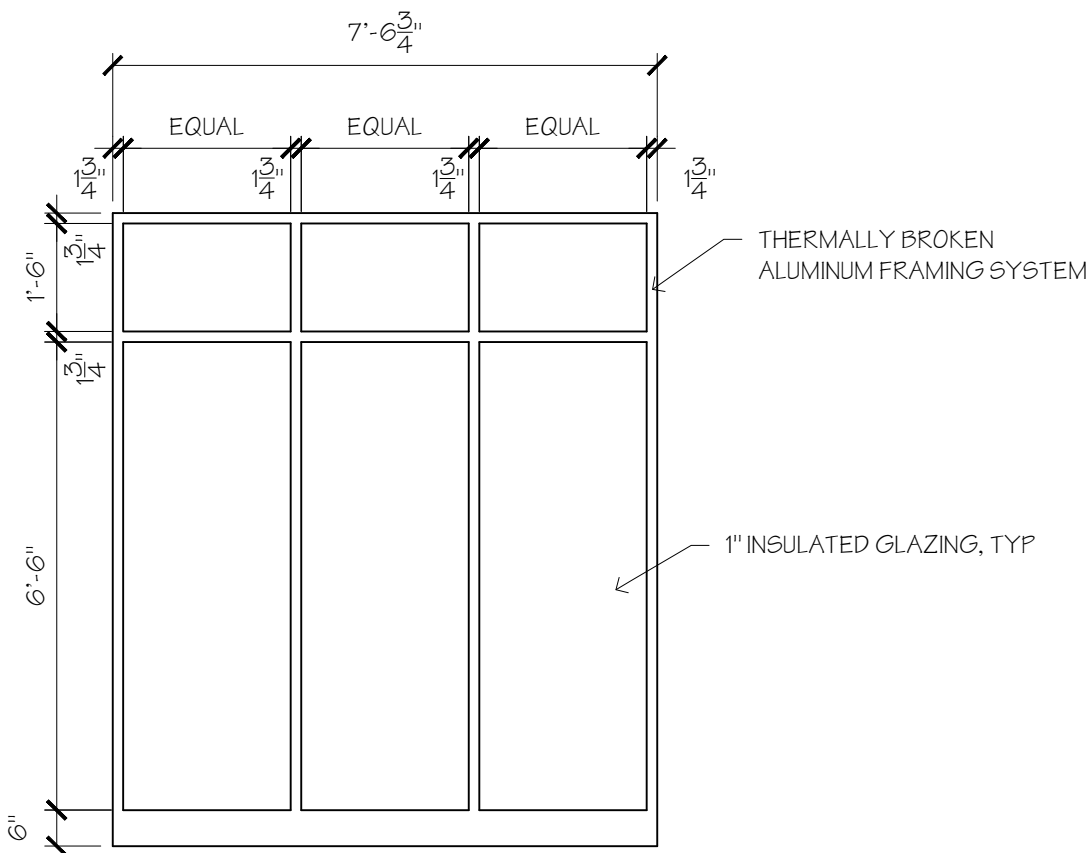
## FRAME DETAILS

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



## FRAME DETAILS

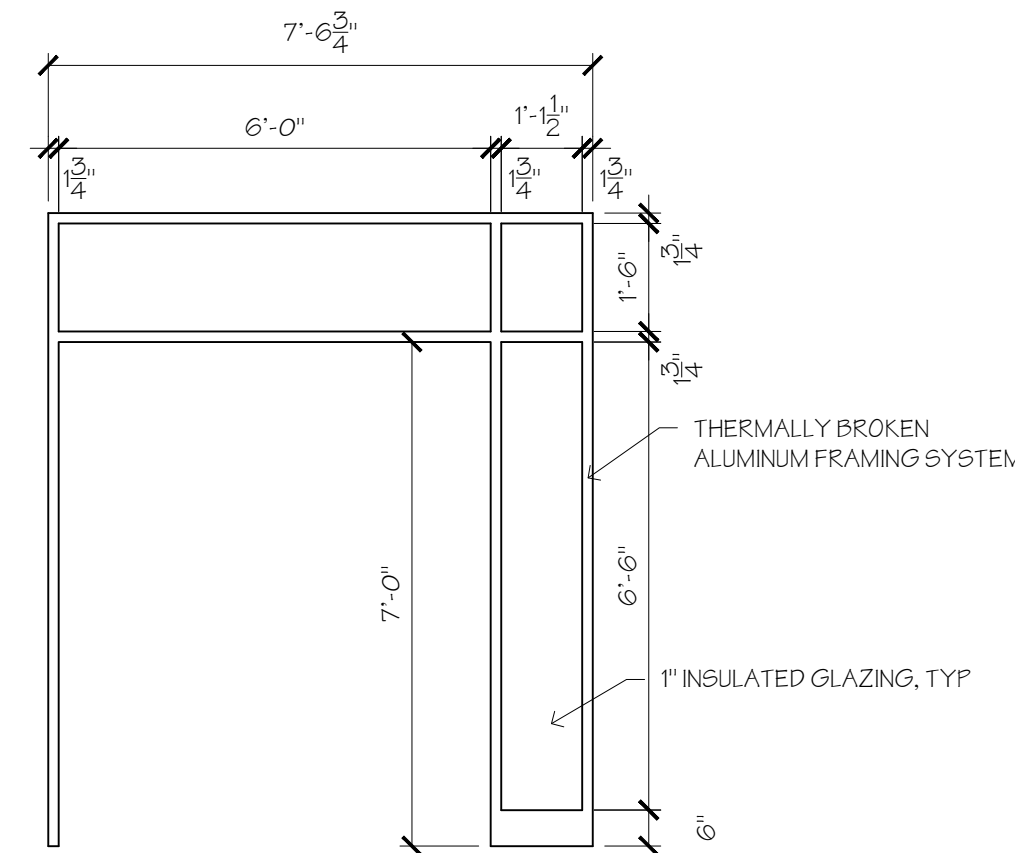
SCALE: 1/2" = 1'-0"



## FRAME DETAILS

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

VESTIBULE 101  
NORTH WALL FRAMING SYSTEM



## FRAME DETAILS

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

DOOR SCHEDULE						
DOOR	TYPE	SIZE	MAT'L	FRAME	RATING	HARDWARE
101	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
102	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-2
103	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
104	C	(2) 3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-3
105	C	(2) 3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-3
106	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
107	B	(2) 3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-4
108	B	(2) 3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-4
109	C	3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-5
110	C	3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-5
111	C	3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-6
112	B	3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-7
113	E	6'-0" x 3'-8"	STEEL	STEEL	-	HW-8
114	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
115	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
116	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
117	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
118	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
119	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-1
120	C	3'-0" x 6'-8"	SC WOOD	STEEL	-	HW-6
121	A	(2) 3'-0" x 7'-0"	ALUM / GLASS	ALUM	-	HW-9
122	D	3'-0" x 6'-8"	METAL INSUL	STEEL	-	HW-10

HW-1  
CONTINUOUS HINGES  
FANIC HARDWARE  
CLOSER  
WEATHERSTRIPPING

HW-2  
CONTINUOUS HINGES  
PUSH / PULL  
CLOSERS  
WEATHERSTRIPPING

HW-3  
(3) PAIR HINGES  
STOREROOM LOCKSET  
FLUSH BOLTS

HW-4  
(3) PAIR HINGES  
CLOSERS  
PUSH / PULL  
KICKPLATES  
SILENCERS

HW-5  
(3) PAIR HINGES  
CLOSER  
PUSH / PULL  
KICKPLATES  
SILENCERS

HW-6  
(3) PAIR HINGES  
STOREROOM LOCKSET

HW-7  
(3) PAIR HINGES  
OFFICE LOCKSET  
SILENCERS

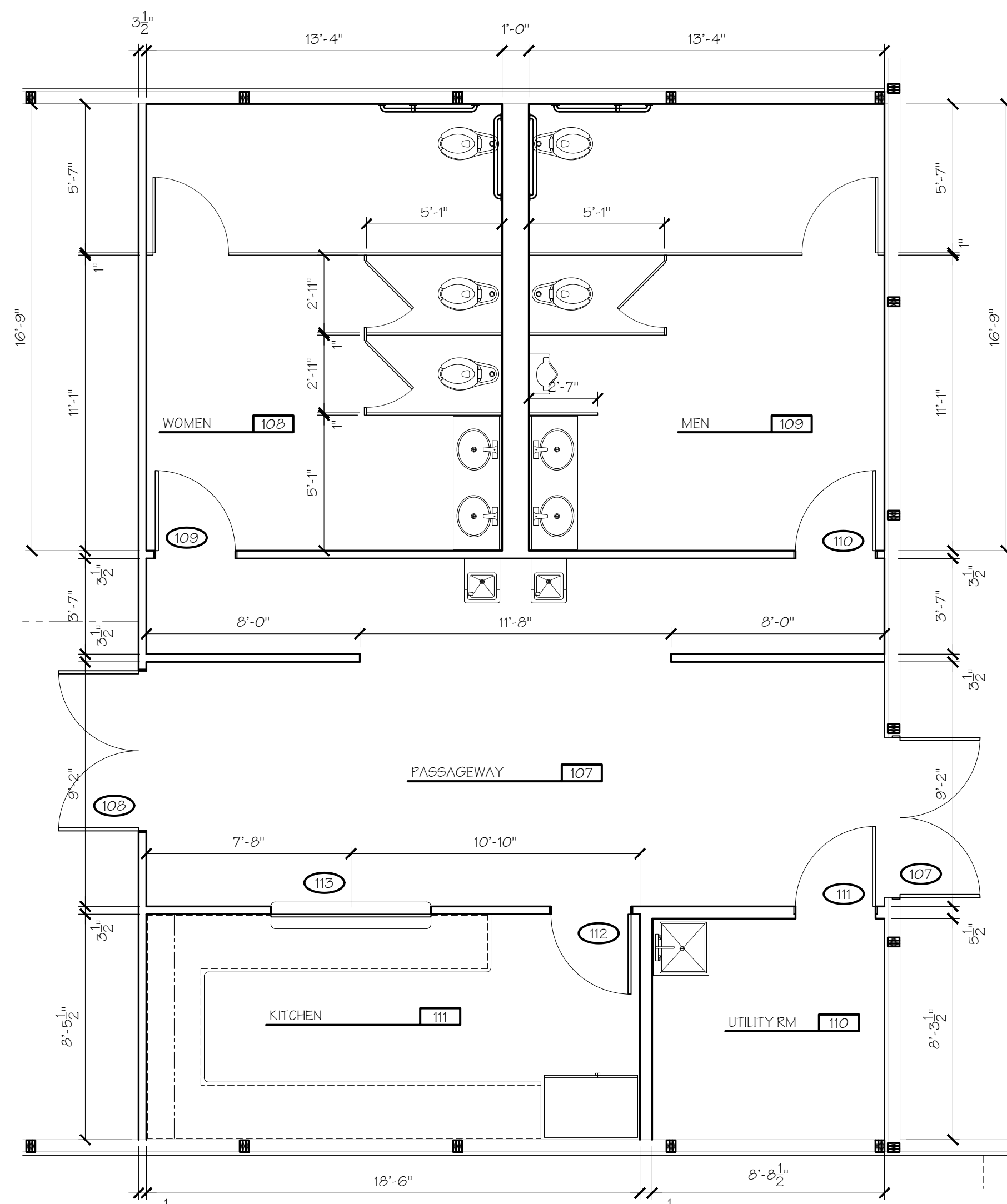
HW-8  
STANDARD AS  
PER MANUF

HW-9  
CONTINUOUS HINGES  
CLOSERS  
ENTRY LOCKSET  
PUSH / PULL

HW-10  
(3) PAIR HINGES  
FANIC HARDWARE  
CLOSER  
WEATHERSTRIPPING  
BLANK PLATE @ EXTERIOR

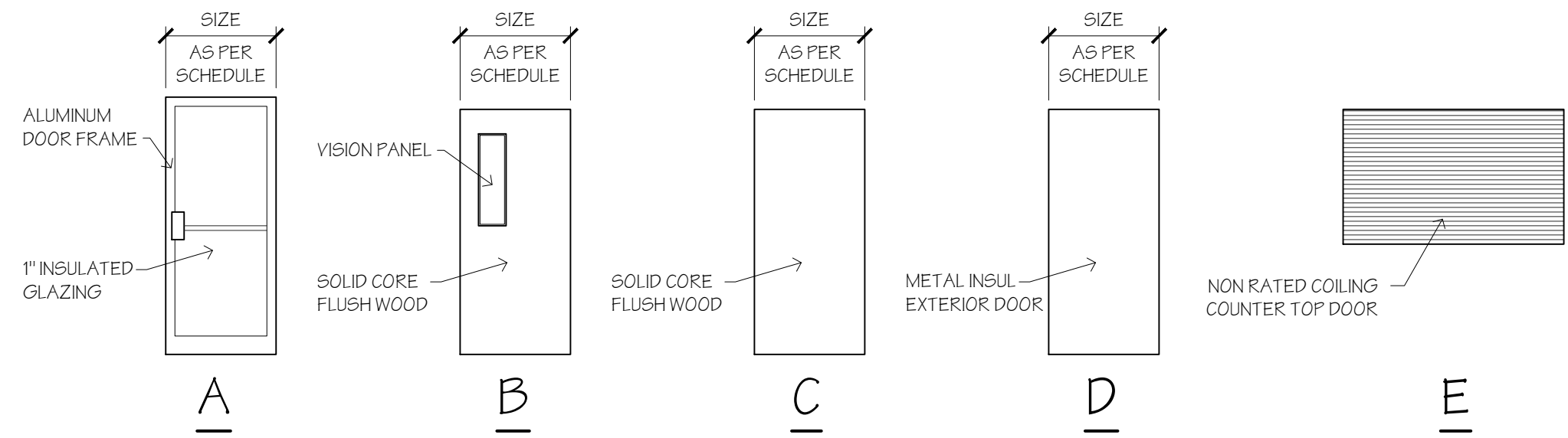
## HARDWARE GROUPINGS

SCALE: N.T.S.



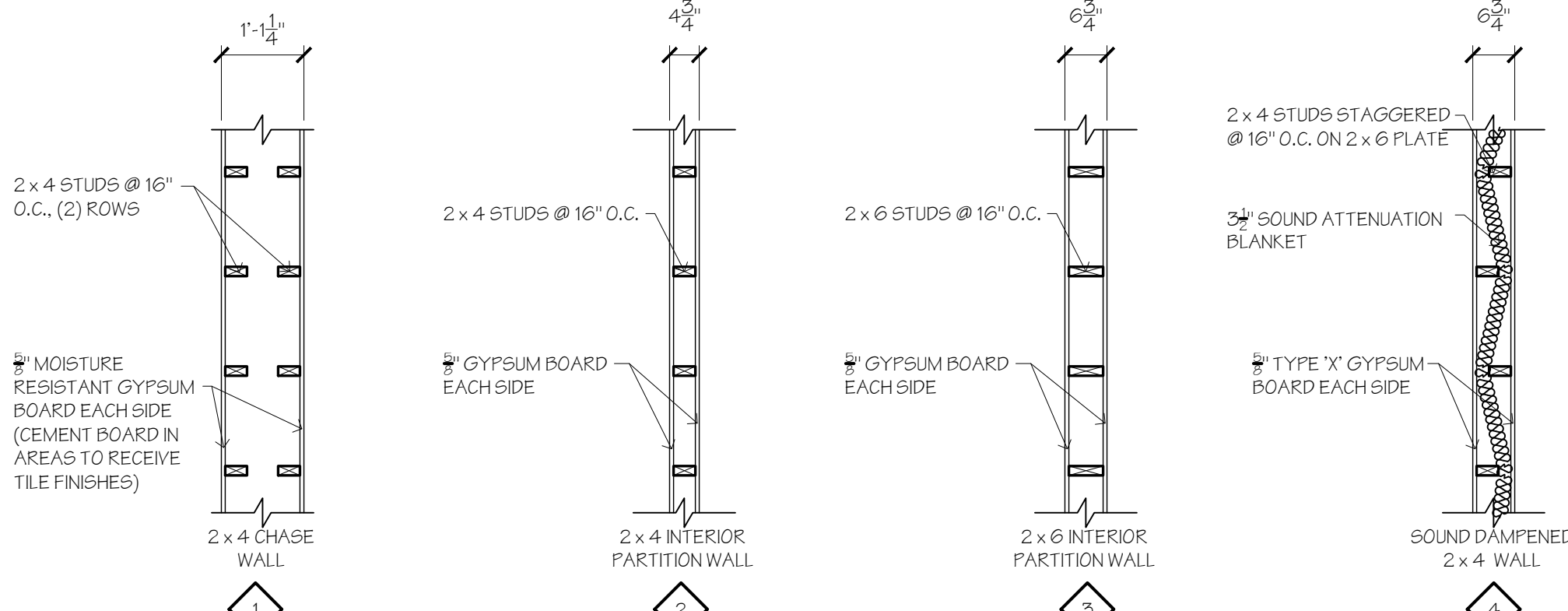
## ENLARGED FLOOR PLAN

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



## DOOR TYPES

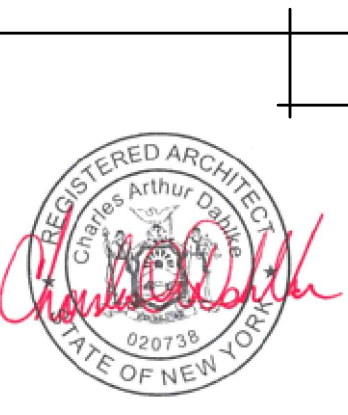
SCALE: 1/4" = 1'-0"



## PARTITION TYPES

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

ROOM FINISH SCHEDULE													
NUMBER	NAME	FLOOR		WALLS						CEILING			REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH				BASE	MATERIAL	FINISH	HEIGHT	
					NORTH	EAST	SOUTH	WEST					
FIRST FLOOR													
100	CARPOT	PAVING	-		-	-	-	-	-	-	-	-	
101	VESTIBULE	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	PAINT	9'-0"	
102	MEETING ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	PAINT	VARIES	
103	TABLE STORAGE	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	PAINT	VARIES	
104	EXIT	CONC	-		-	-	-	-	-	-	-	-	
105	MUSEUM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	GYP BRD	VARIES	
105A	UTILITY ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	GYP BRD	VARIES	
106	EXIT	CONC	-		-	-	-	-	-	-	-	-	
107	PASSAGEWAY	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	ACOUSTIC	9'-0"	
108	WOMEN'S ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	ACOUSTIC	9'-0"	
109	MEN'S ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	ACOUSTIC	9'-0"	
110	UTILITY ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	GYP BRD	9'-0"	
111	KITCHEN	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	ACOUSTIC	9'-0"	
112	MEETING ROOM	CONC	V. TILE	GYP BRD	PAINT	PAINT	PAINT	PAINT	RUBBER	GYP BRD	GYP BRD	VARIES	
113	EXIT	CONC	-		-	-	-	-	-	-	-	-	
114	EXIT	CONC	-		-	-	-	-	-	-	-	-	
115	EXIT	CONC	-		-	-	-	-	-	-	-	-	
116	EXIT	CONC	-		-	-	-	-	-	-	-	-	
117	EXIT	CONC	-		-	-	-	-	-	-	-	-	
118	EXIT	CONC	-		-	-	-	-	-	-	-	-	
119	MECHANICAL MEZZ	WOOD	UNFINISHED	GYP BRD	PAINT	PAINT	PAINT	PAINT	-	GYP BRD	PAINT	VARIES	



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 14, 2023

SHEET 7 OF 19

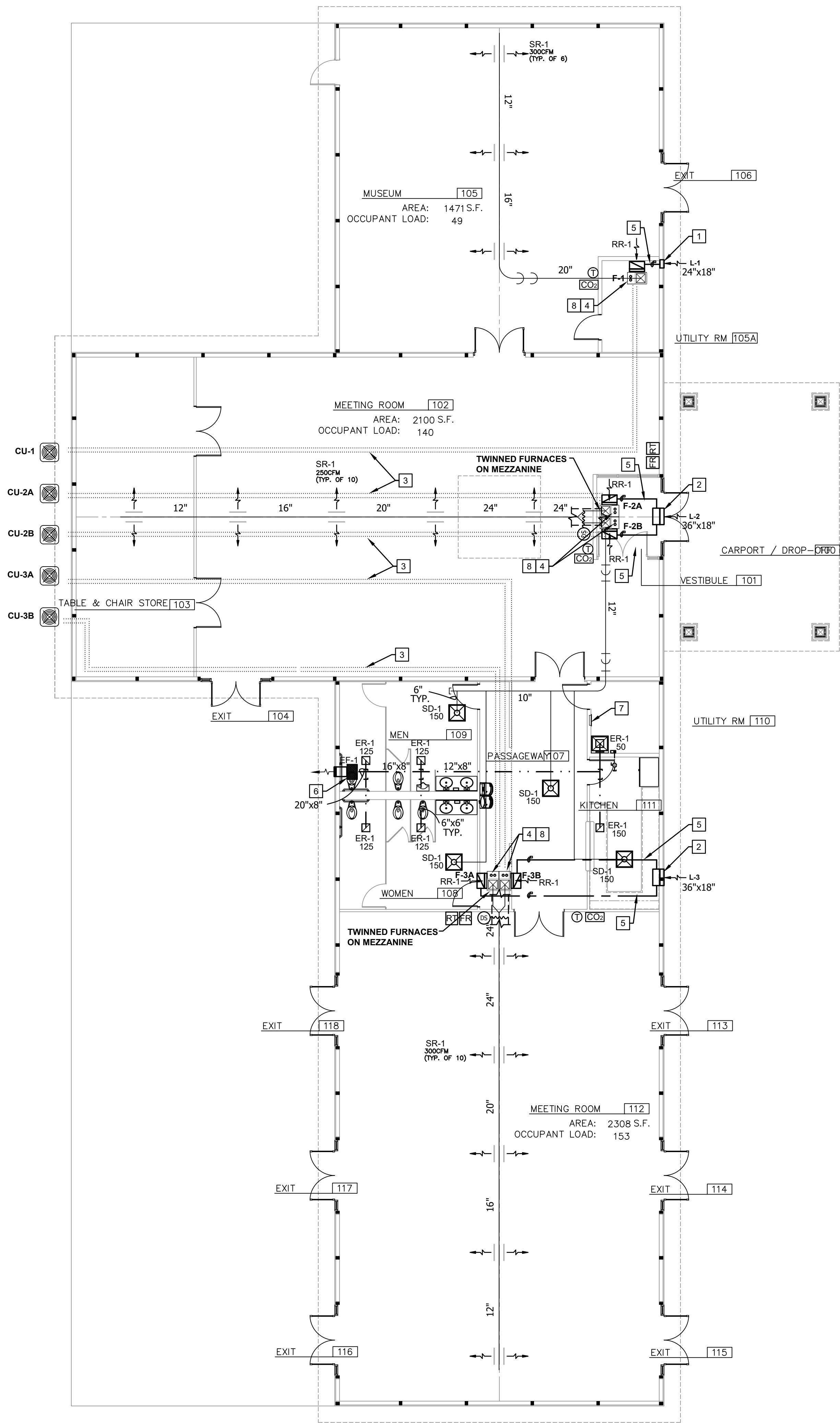
PROJECT LOCATION:  
CAMPBELL BLVD  
PENDLETON, NEW YORK

CLIENT NAME:  
TOWN OF PENDLETON

PROJECT TITLE:  
PENDLETON COMMUNITY CENTER

DRAWING NUMBER:  
A-6





1ST FLOOR PLAN

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

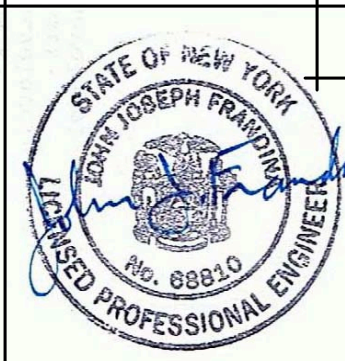
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GENERAL NOTES:

- 1. VERIFY EXACT LOCATION OF ALL CEILING FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A WATER TIGHT INSTALLATION OF NEW EQUIPMENT AND PENETRATIONS THROUGH ROOF CURBS AND RELATED ENCLOSURES.
- 3. BALANCE AIR FLOWS AS INDICATED.
- 4. WHERE DUCT SIZES ARE NOT SHOWN, SIZE BASED ON 900FPM MAX. AIR VELOCITY.
- 5. ALL DUCTWORK SHALL BE G90 GALVANIZED INSTALLED PER SMACNA. SEAL ALL JOINTS.
- 6. INSULATE ALL DUCTWORK WITH 1-1/2" FIBERGLASS WRAP W/ASI.
- 7. CARBON DIOXIDE SENSOR TO CONTROL MOTORIZED DAMPERS ON OUTDOOR INTAKE DUCTS.
- 8. INSTALL ALL CONTROL WIRING FOR HVAC EQUIPMENT IN EMT CONDUIT.

DRAWING NOTES

- 1 PROVIDE EXTRUDED ALUMINUM 12"x12"x4"DEEP STATIONARY WALL LOUVER. TURN OVER TO G.C. FOR INSTALLATION.
- 2 PROVIDE EXTRUDED ALUMINUM 24"x12"x4"DEEP STATIONARY WALL LOUVER. TURN OVER TO G.C. FOR INSTALLATION.
- 3 REFRIGERANT LINE SET FROM CONDENSING UNIT AT GRADE.
- 4 INSTALL (2) 3" SCHED.40 FLUE & COMBUSTION AIR PIPING UP THROUGH ROOF WITH FURNACE MANUFACTURER'S CONCENTRIC TERMINATION KIT.
- 5 INSULATED 12"Ø GALVANIZED OUTSIDE AIR INTAKE FROM WALL LOUVER TO RETURN DUCT WITH MOTORIZED DAMPER. INTERLOCK DAMPER WITH OPERATION OF FURNACE.
- 6 INSTALL IN-LINE EXHAUST FAN WITH WALL VENT. SUPPORT WITH THREADED ROD AND VIBRATION ISOLATORS.
- 7 INSTALL ELECTRIC WALL HEATER WITH BUILT-IN CONTROLS AND SEMI-RECESSED MOUNTING FRAME (QMARK MODEL # AWH4408F, 2000W, 208V/1PH, 9.6A, 105LBS).
- 8 INSTALL 3/4"CPVC DRAIN FROM FURNACE CONDENSATE CONNECTIONS TO HUB DRAIN WITH AIR GAP. COORDINATE WITH PLUMBING CONTRACTOR.



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 13, 2023

by designs to build on client name: TOWN OF PENDLETON

residential church design

PROJECT LOCATION: CAMPBELL BLVD  
PENDLETON, NEW YORK

PROJECT TITLE: PENDLETON COMMUNITY CENTER

CONTENTS ON SHEET: HVAC PLAN

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Life by Design  
M-1

DRAWING NUMBER:

21-049

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NOTE: IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER THIS DOCUMENT IN ANY WAY.

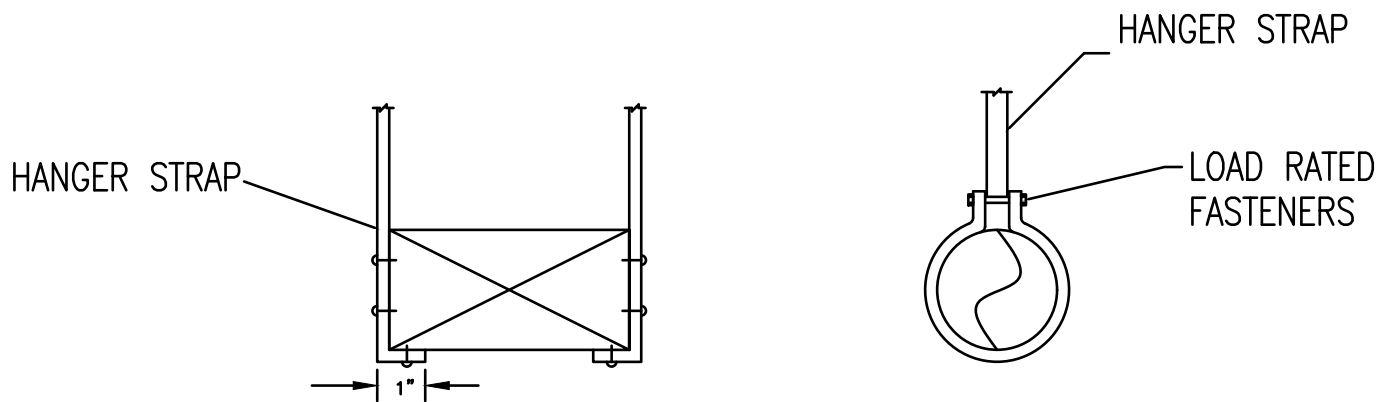


GAS FURNACE AND CONDENSING UNIT SCHEDULE																							
FURNACES														CONDENSING UNITS									
TAG	MANUFACTURER	MODEL #	THERMAL EFFICIENCY	STAGES	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	1ST STAGE HEATING	2ND STAGE HEATING	VOLTS/PHASE/HZ	FLA	MOCP	NOTES	TAG	MANUFACTURER	MODEL #	S.E.E.R.	VOLTS/PHASE/HZ	MIN CIRCUIT AMPS	MOCP	REFRIGERANT	SOUND PRESSURE LEVEL	NOTES
F-1, F-2A, F-2B, F-3A, F-3B	ALLIED	A96UH2E110C20S	96%	2	2,000 @ .5" esp	1,600	400	72/70MBH	110/106MBH	120/1/60	10.9A	20A	1, 2, 3, 4, 5, 6, 7, 8	CU-1, CU-2A, CU-2B, CU-3A, CU-3B	Allied	4SCU16LE160P	14	208-230/1/60	29.6	50	R-410A	70dBA	9, 10
<div>1. Furnace fan motor fto be high efficiency-constant torque motor.</div> <div>2. Furnace to have stainless steel heat exchanger.</div> <div>3. Furnace fan sppd shall be set on high speed.</div> <div>4. Provide twinning kits for F-2A &amp; F-2B, F-3A &amp; F-3B.</div> <div>5. Provide concentric vent kits.</div> <div>6. Provide 7 day (5+1+1) programmable thermostat.</div> <div>7. Provide MERV 8 filters.</div> <div>8. Furnace to have 10 year limitedparts warranty, lifetime heat exchanger parts warranty. (warranty registration required within 60 days)</div> <div>9. Provide louvered exterior enclosure.</div> <div>10. Condensing Unit to have 10 year limited parts warranty, 10 year compressor parts warranty (warranty registration required within</div>																							

EXHAUST FAN SCHEDULE														
TAG	Service Location	Manufacturer	Model	Type	Motor									Accessories
					Drive	CFM	In W.G.	RPM	HP/W	Vol	PH	Hz	Sones	
EF-1	Restrooms	Soler & Palau	FFC 1500	Cabinet Fan	Direct	700	0.37	792	468	115	1	60	6.30	1, 2, 3, 4
<div>Accessories</div> <div>1. 8" X 12" TO 12" ROUND TRANSITION (FF/FFC900-1500)</div> <div>2. SPD CNTRL 115V 10 AMP LOOSE</div> <div>3. VIBRATION HANGERS (SET OF 4) FF100 TO FFC3500</div> <div>4. LOUVERED WALL DISCHARGE</div>														

AIR DEVICE SCHEDULE										
TYPE	DESCRIPTION	CFM RANGE	NECK SIZE/ CONN.	MANUF.	MODEL	THROW (FT)			PD IN. W.C	REMARKS
						150	FPM 100	50		
SR-1	SUPPLY REGISTER 10x6 SPRIAL DUCT	150-300	—	CARNES	RDDM	12	14	19	0.12	NOTES 1,2,3,4,5
SD-1	SUPPLY DIFFUSER 24x24 LAY-IN	150-225	8"ø	KRUEGER	PLQ	5	10	15	0.05	NOTES 1,2,3,4
RR-1	RETURN REGISTER 20x20 SURFACE MNTD	500-1800	—	KRUEGER	S85	—	—	—	0.1	NOTES 1,3,4
ER-1	EXHAUST REGISTER 12x12 LAY-IN	50-300	10"x10"	KRUEGER	S85	—	—	—	0.05	NOTES 1,2,3,4,6
NOTES: 1. PERFORMANCE AND CONSTRUCTION BASED ON EH PRICE. 2. REFER TO ARCH. RCP FOR LOCATIONS AND CEILING TYPES. 3. FINISH WHITE (STANDARD) 4. NOISE LEVEL SHALL NOT EXCEED NC 40. 5. PROVIDE NECK ADAPTER FOR CONNECTIONS AS REQUIRED. 6. AIR SCOOP WITH ROD OPERATOR.										

LOUVER SCHEDULE								
TAG	MANUFACTURER	MODEL NUMBER	SERVICE LOCATION	SIZE W X H X D	SQ FT FREE AREA	CFM/FPM / PD	FINISH	NOTES:
L-1	United Energtech	FL-D4	FURNACE F-1	18"W X 18"H X 4"D	0.9	400 / 444 / .018"	MIL	1, 2
L-2			FURNACE F-2A&2B	18"H X 36"W X 4"D	1.93	800 / 414 / .0175"		1, 2
L-3			FURNACE F-3A&3B	18"H X 36"W X 4"D	1.93	800 / 414 / .0175"		1, 2
1. FLANGED FRAME 2. BIRD SCREEN								



DUCT SUPPORT DETAIL  
NOT TO SCALE

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 REFERENCES

A. APPLICABLE STANDARDS OF ASTM, ANSI, ASME, NFPA, AND LOCAL AND STATE BUILDING CODES.

1.02 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.03 COORDINATION

A. ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.  
B. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR MECHANICAL ITEMS REQUIRING ACCESS THAT ARE CONCEALED BEHIND FINISHED SURFACES.

1.04 SUBMITTALS

A. PRODUCT DATA: PROVIDE PRODUCT DESCRIPTION, CHARACTERISTICS AND LIST OF MATERIALS FOR EACH SERVICE, AND LOCATIONS.

1.05 QUALIFICATIONS

A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.  
B. INSTALLER: COMPANY HAVING A MINIMUM FIVE YEARS DOCUMENTED EXPERIENCE.

1.06 WARRANTY

A. INSTALLER SHALL COMPLY WITH OWNER'S GENERAL CONDITIONS.

PART 2 - PRODUCTS

2.01 DUCT MATERIALS

A. GALVANIZED STEEL DUCTS: ASTM A525 AND ASTM A527 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, HAVING G60 ZINC COATING OF IN CONFORMANCE WITH ASTM A90.  
B. STEEL DUCTS: ASTM A366.  
C. FASTENERS: RIVETS, BOLTS, OR SHEET METAL SCREWS.  
D. HANGER ROD: ASTM A36; STEEL; CONTINUOUSLY THREADED.

2.02 DUCTWORK FABRICATION

A. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.  
B. SPIRAL DUCT FABRICATED PER SMACNA STANDARDS.

2.03 MINERAL-FIBER BLANKET THERMAL INSULATION:

GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM.

2.04 TEXTILE DUCT LINING, ASTM C-411, OWENS CORNING QUIETR, BACTERIAL AND FUNGAL GROWTH RESISTANT, TYPE 200, R VALUE=4.1 PER INCH, OR EQUAL.

PART 3 - EXECUTION

3.01 DUCT INSTALLATION

A. COORDINATE DUCT LAYOUT AND DUCT ACCESSORY ARRANGEMENT WITH DRAWINGS.  
B. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM.  
C. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.  
D. INSTALL ROUND DUCTS IN MAXIMUM PRACTICAL LENGTHS.  
E. INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS.  
F. UNLESS OTHERWISE INDICATED, INSTALL DUCTS VERTICALLY AND HORIZONTALLY, AND PARALLEL AND PERPENDICULAR TO BUILDING LINES.

3.02 DUCT INSULATION

A. SERVICE: CONCEALED RECTANGULAR AND ROUND, SUPPLY AND RETURN AIR DUCTS, AND ALL OUTSIDE AIR DUCTWORK.  
1. MATERIAL: MINERAL-FIBER BLANKET WITH ASJ.  
2. THICKNESS: 1-1/2 INCH.  
B. SERVICE: RECTANGULAR AND ROUND, EXPOSED SUPPLY AIR DUCTS AND PLENUMS WITHIN 10FT FROM UNIT,  
1. MATERIAL: DUCT LINER.  
2. THICKNESS: 1/2 INCH.

3.03 TESTING AND BALANCING

A. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC, ASHRAE 111, OR NEBB.

END



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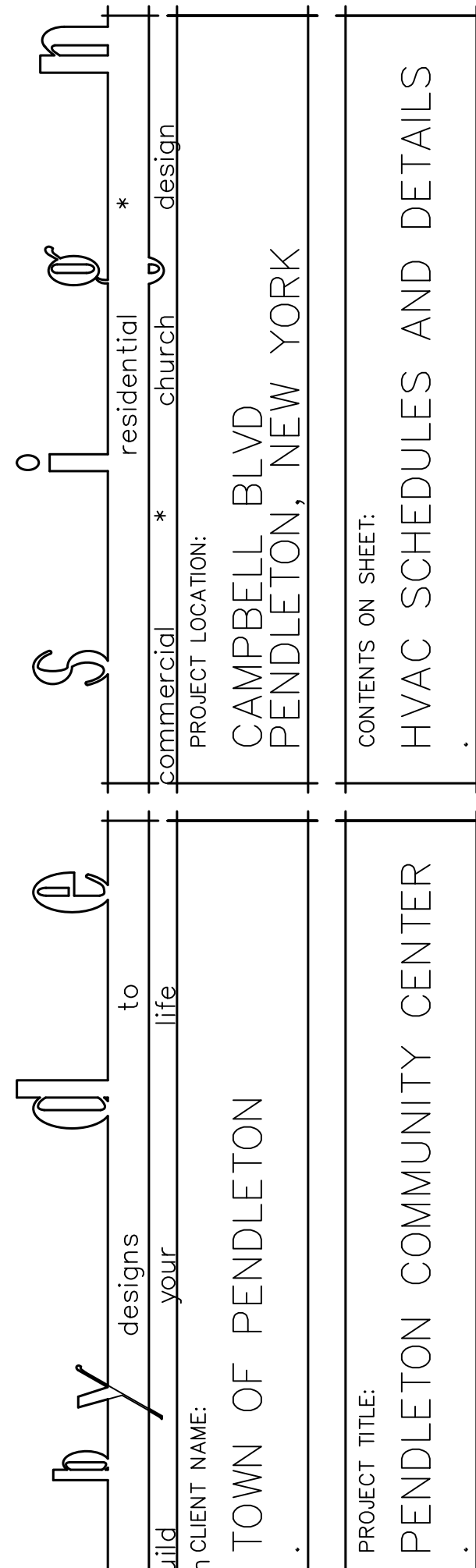
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DESIGNER:

REVISIONS:


DATE: FEBRUARY 13, 2023



DRAWING NUMBER:

M-2

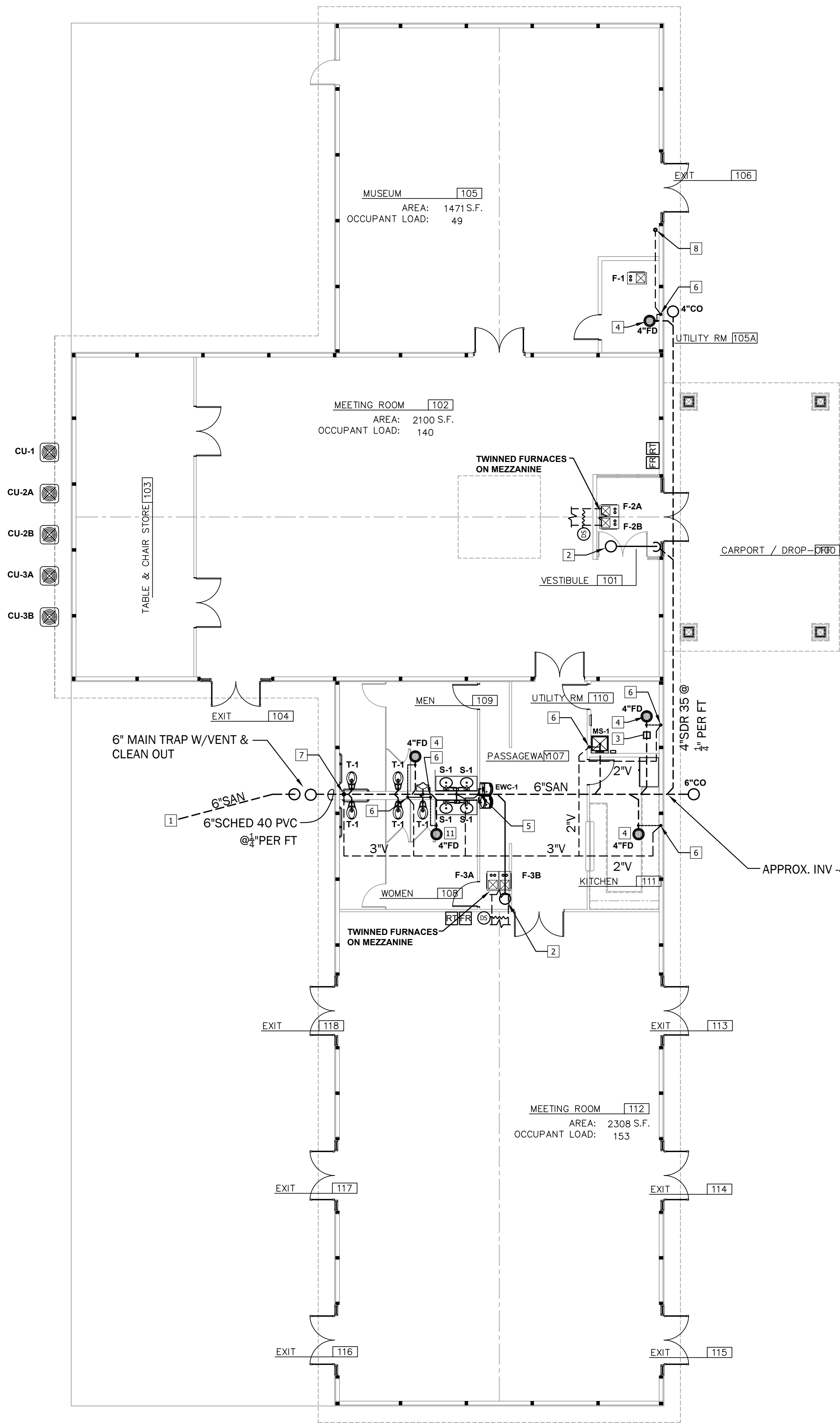
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1ST FLOOR PLAN

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

2

GENERAL NOTES:

1. VERIFY LOCATIONS AND INVERTS OF SANITARY LINES. COORDINATE WITH THE TOWN FOR CONNECTION REQUIREMENTS.
2. CONTRACTOR TO PAY ALL FEES REQUIRED.

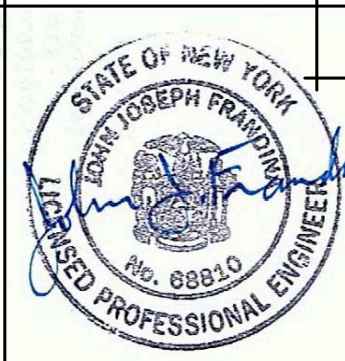
DRAIN & VENT  
DRAWING NOTES

- 1 REFER TO UTILITY PLAN ON DRAWING C-106.
- 2 4" HUB DRAIN ON MEZZANINE FOR FURNACE CONDENSATE.
- 3 PROVIDE 4" BACKWATER VALVE.
- 4 PROVIDE 4" TRAP SEAL (RECTORSEAL SURESEAL MODEL #SS4009V).
- 5 1-1/2" V DTF, 1-1/2" V UP.
- 6 2" VENT DTF, 2" V UP.
- 7 3" V UP, 4" VTR.
- 8 2" V UP, 3" VTR.

PLUMBING FIXTURE SCHEDULE						
LETTER	TYPE OF FIXTURE		DRAINAGE		SUPPLY	
T-1	FLR MTD TOILET, BATT. OP FLUSH VALVE — 17" HIGH		SS	V	CW	HW
U-1	WALL MTD URINAL, BATT. OP FLUSH VALVE		3"	—	1"	
S-1	COUNTER, TOP MOUNT, VIT. CHINA		1½"	1½"	½"	½"
MS-1	MOP SINK		3"	2"	¾"	¾"
FD	FLOOR DRAIN W/INLINE TRAP SEAL		4"	2"		
EHW	ELECTRIC WATER HEATER (POINT-OF-USE)				½"	½"
NFWH	NON-FREEZE WALL HYDRANT				¾"	
WHA	WATER HAMMER ARRESTER				¾"	¾"

WATER CONNECTION SCHEDULE							
NUMBER OF FIXTURES SUPPLIED							
BRANCH PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
1/2" FIXTURE CONN.	2	3 TO 4	5 TO 7	8 TO 13	14 TO 23	—	—
3/4" FIXTURE CONN.	—	1	2	3 TO 4	5 TO 9	9 TO 24	—
3/4" FLUSH VALVE	—	1	2	3	4 TO 7	8 TO 24	—
1" FLUSH VALVE	—	—	1	2	3 TO 4	5 TO 12	13 TO 25

- GENERAL SCHEDULE NOTES:  
1. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.  
2. PROVIDE ALL FAUCETS, TRIM, TAIL PIECES, TRAPS, TUBING, ESCUTCHEONS, AND SERVICE VALVES AS REQUIRED.



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 13, 2023

by designs to build on client name: TOWN OF PENDELTON

residential church design PROJECT LOCATION: CAMPBELL BLVD PENDELTON, NEW YORK

PROJECT TITLE: PENDELTON COMMUNITY CENTER

CONTENTS ON SHEET: PLUMBING - DRAIN & VENT

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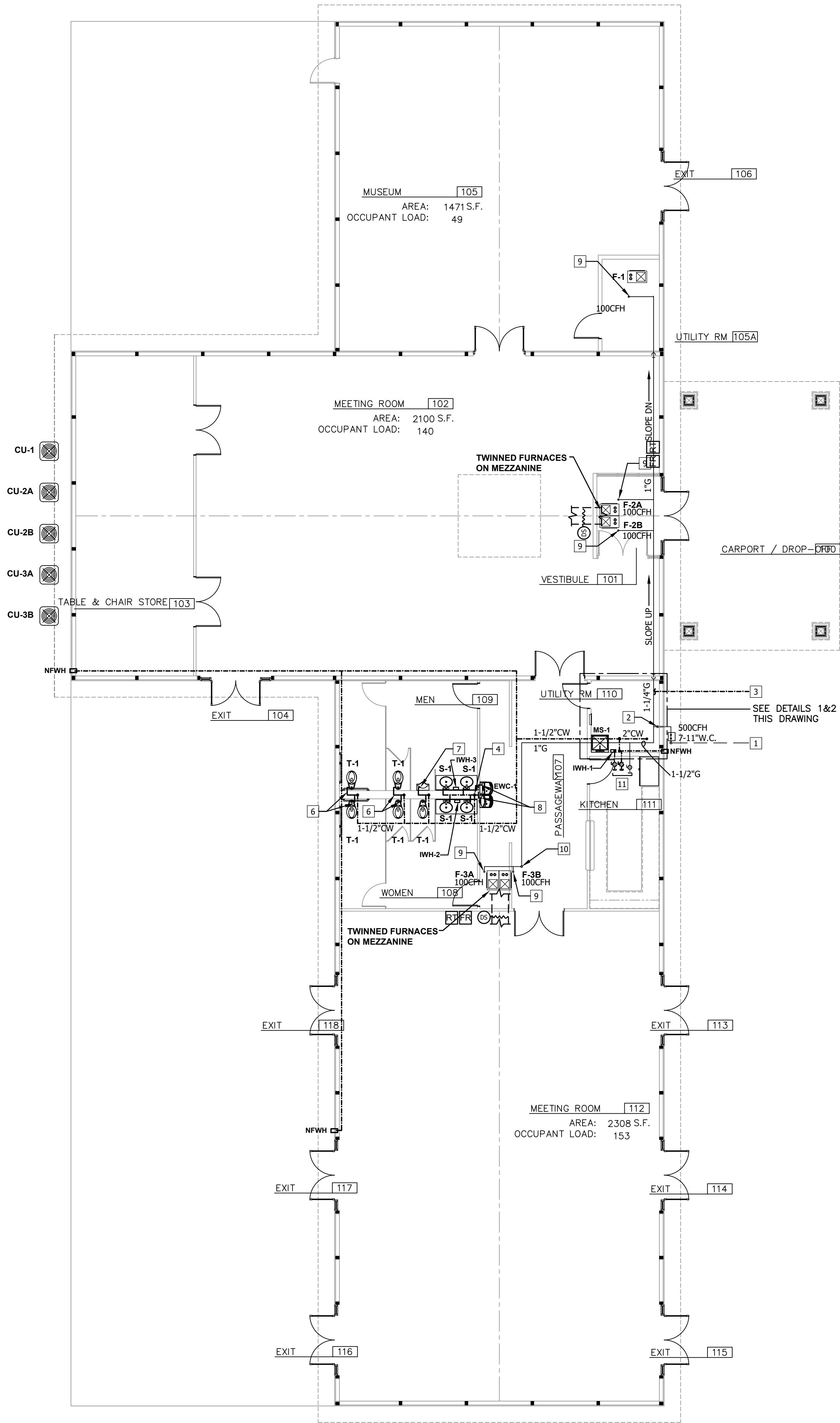
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1ST FLOOR PLAN

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

2

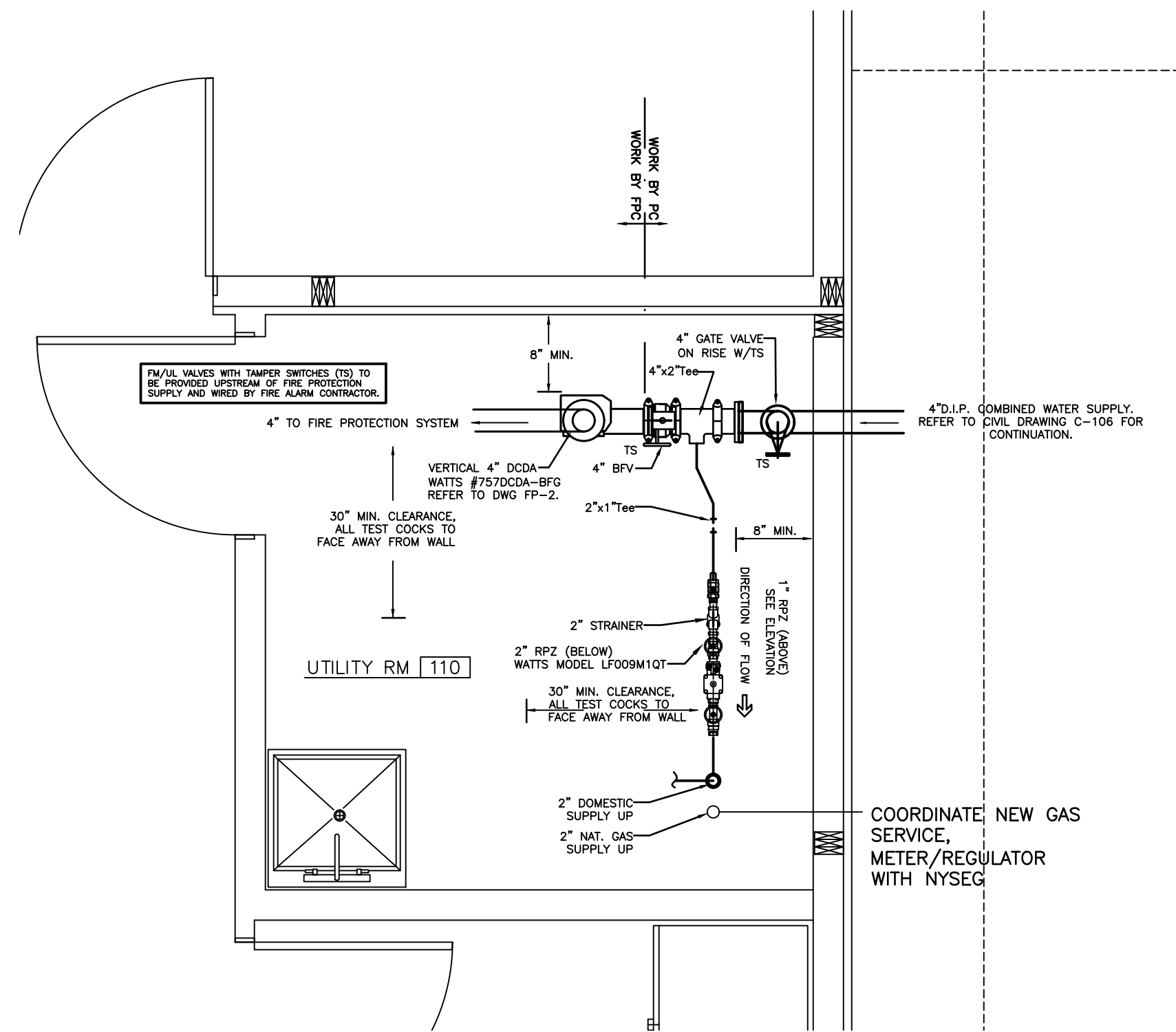
GENERAL NOTES:

1. CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS FOR CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL TESTING AND CERTIFICATION OF BACKFLOW DEVICES.
3. ALL VALVES ON FIRE PROTECTION SERVICES SHALL BE EQUIPED WITH TAMPER SWITCH AND CONNECTED TO SUPERVISED FIRE ALARM SYSTEM.

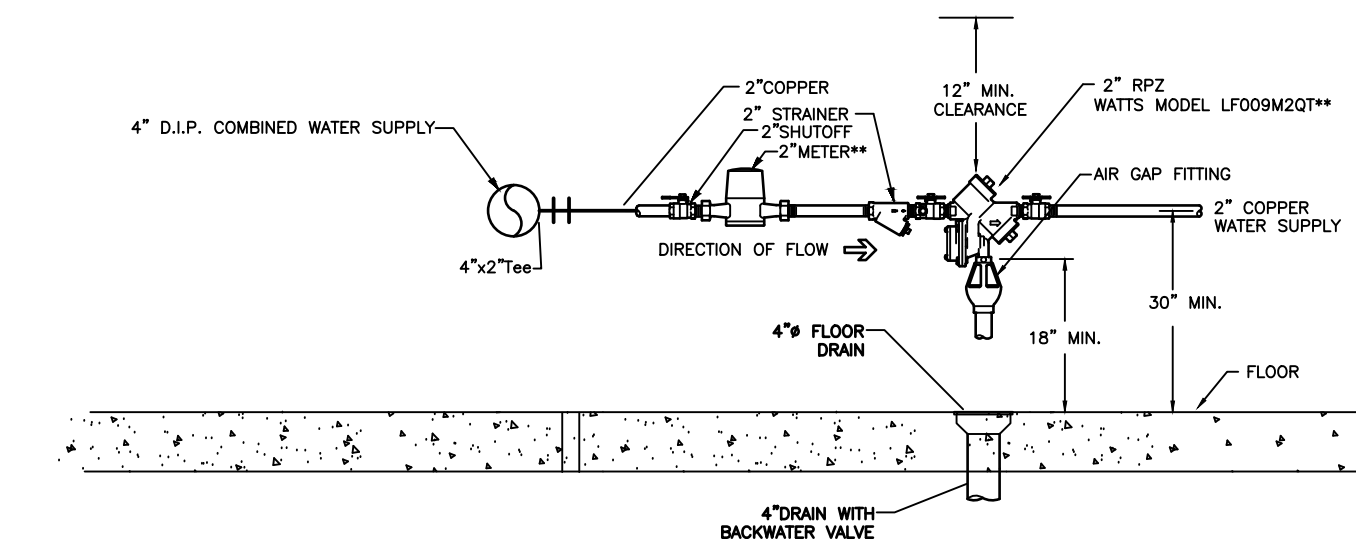
DRAWING NOTES

- 1 NEW NATURAL GAS SERVICE FROM NYSEG. INSTALL 2" SUPPLY INTO BUILDING WITH SCHED40 PVC SLEEVE. COORDINATE WITH NYSEG FOR METER AND REGULATOR INSTALLATION.
- 2 2"GAS UP WITH LUBRICATED PLUG VALVE AT 12" AFF.
- 3 NEW COMBINED WATER SERVICE FROM TOWN OF PENDLETON WATER DEPT.
- 4 1/2"CW DOWN TO SINK AND ELECTRIC WATER HEATER WITH 1/2"HWSUPPLY TO SINK.
- 5 3/4"CW DOWN TO MOP SINK AND ELECTRIC WATER HEATER WITH 3/4"HWSUPPLY TO SINK.
- 6 1"CW TO TOILET.
- 7 3/4"CW TO URINAL.
- 8 1/2"CW DOWN TO WATER COOLER.
- 9 3/4"GAS TO FURNACE WITH DIRT LEG AND BALL VALVE.
- 10 1"GAS UP MEZZANINE.
- 11 3/4"H&CW AND GAS WITH BALL VALVE, CAPPED FOR FUTURE CONNECTION.

ELECTRIC INSTANT WATER HEATER SCHEDULE							
IWH#	SERVICE	GPM	°F RISE	KW	V/PH	AMPS	MANUF. MODEL #
1	MOP SINK	3.0	40	17.5	208/1	3x28A	EEMAX PRO24240
2,3	RESTRM SINKS	1.5	37	8.2	208/1	28	EEMAX PRO11240



1 WATER ENTRANCE DETAIL



2 ELEVATION - RPZ INSTALLATION



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 13, 2023

residential church design

commercial PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK

contents on sheet: PLUMBING - WATER & GAS

to life

your life

TOWN OF PENDLETON

PROJECT TITLE: PENDLETON COMMUNITY CENTER

DRAWING NUMBER:

P-2

21-049

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PLUMBING SPECIFICATIONS

1. GENERAL

- A. ALL PLUMBING WORK IS SUBJECT TO THE GENERAL REQUIREMENTS OF THE CONTRACT, ALL OTHER ARTICLES EITHER SHOWN ON THE PLANS OR METIONED IN THE SPECIFICATIONS, TOGETHER WITH ALL NSSARY FOR INCIDENTAL TO THE COMPLETION OF THE WORK, SHALL BE FURNISHED AND INSTALLED BY THE RESPECTIVE PLUMBING CONTRACTOR, UNLESS OTHERWISE STATED. ALL ADJUSTMENTS SHALL BE MADE AND SYSTEM TURNED OVER TO THE OWNER IN PERFECT WORKING ORDER.

2. LAWS, CODES, PERMITS AND INSPECTIONS

- A. FILE ALL PLANS AND PAY FOR NESSARY PERMITS AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- B. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, ENERGY CONSERVATION AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION OVER THIS WORK. THESE CODES SHALL SUPERSEDE THE SPECIFICATIONS AND DRAWINGS.
- C. AT THE COMPLETIONS OF THE WORK, THE PLUMBING CONTRACTOR SHALL DELIVER TO THE OWNER A CERTIFICATE OF INSPECTION AND ACCEPTANCE OF THE WORK BY THE LOCAL INSPECTION AUTHORITY.

3. GUARANTEE

- A. THE CONTRACTOR SHALL GIVE A WRITTEN GUARANTEE UPN FINAL ACCEPTANCE OF THE WORK AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, OR OPERATION THAT MAY RESULT WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY THE OWNER.

4. EQUIPMENT AND MATERIALS

- A. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE SPECIFIED). LISTED BY THE UNDERWRITERS LABORATORIES, AND SHALL BE OF THE SAME MAKE WHERE USED FOR SIMILAR PURPOSES.

5. MARKING AND LABELING

- A. PROVIDE ENGRAVED NAMEPLATES FOR ALL PLUMBING EQUIPMENT AS WELL AS PLASTIC PIPE MARKERS TO IDENTIFY ALL PIPING SYSTEMSFOR THIS PROJECT.
- B. LABEL INSULATION JACKET ON HIGH TEMPERATURE HOT WATER WITH 'CAUTION 140°F HW' EVERY 10FT.

6. FINAL CLEANING

- A. AFTER TEST HAVE BEEN MADE AND THE INSTALLATION HAS BEEN FOUND SATISFACTORY BY THE ENGINEER, THOROUGHLY CLEAN THE ENTIRE INSTALLATION, BOTH EXPOSED SURFACES AND INTERIORS. REMOVE ALL DEBRIS CAUSED BY THE WORK UNDER THIS CONTRACT FROM ALL SPACES INSIDE AND OUTSIDE THE BUILDING. AT COMPLETION OF WORK, CLEAN ALL FIXTURES AND METAL WORK AND LEAVE IN POLISHED CONDITION.

7. PLUMBING PIPING

- A. BELOW GRADE DOMESTIC WATER PIPING AND FITTINGS SHALL BE TYPE "K" COPPER WITH SOLDER JOINTS. JOINTS SHALL BE AS PER ASTM B 32 WITH LEAD-FREE SOLDER AND FLUXES.
- B. ABOVE GRADE DOMESTIC WATER PIPING AND FITTINGS:
1. TYPE "L" COPPER WITH SOLDER JOINTS. JOINTS SHALL BE AS PER ASTM B 32 WITH LEAD-FREE SOLDER AND FLUXES. (OR)
- C. ABOVE AND BELOW GRADE SANITARY SEWER, VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC.
- D. ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK IRON PIPE. FITTINGS SHALL BE CLASS 150 MALLEABLE IRON ASTM A197, THREADED UP TO 2", WELDED OVER 2". ALL PIPING TO BE INSTALLED AND TESTED PER NFPA 54.

8. PLUMBING PIPING INSULATION

- A. LOCATION – COLD WATER PIPING AND HOT WATER PIPING (EXCEPT WHERE CHROME PLATED EXPOSED IN ROOMS).
- B. TYPE – FIBERGLASS 25 ASJ (ALL SERVICE JACKET) GLASS FIBER ON ALL CONCEALED AND EXPOSED PIPING. GLASS FIBER SHALL BE HEAVY DENSITY RIGID FIBER MOLDED SNAP ON SECTIONS.
- C. MAKE – OWENS –CORNING, CERTAINTEED, KNAUF.
- D. APPLICATION – ALL SEAMS LAPS AND END JOINTS ON GLASS FIBER WILL BE SEALED BY SELF-SEALING LAPON JACKET OR JOINT SEALING STRIPS INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDARTIONS. WHERE STAPLES ARE USED, THEY SHALL BE SEALED WITH BENJAMIN FOSTER 30-36 MASTIC.
- E. FITTINGS – INCLUDE VALVES, FLANGES AND ALL OTHER PIPING COMPONENTS INSULATED WITH GLASS FIBER. INSUL-SURE MOLDED FIBERGLASS FITTINGS OR FABRICATED MITERED SEGMENTS SHALL BE COVERED WITH 1/4" COAT HARD SETTING FINISH CEMENT. ALL FITTINGS SHALL BE COVERED WITH GLASS FIBER LAGGING CLOTH EMBEDDED INTO BENJAMIN-FOSTER 30-35 MASTIC AND GIVEN FLOODING BRUSH COAT OF MASTIC OR ZESTIN'S ONE PIECE PREMOLDED INSULATED FITTINGS WITH JOINTS SEALED WITH Z-TAPE, PER MANUFACTURE'S RECOMMENDATIONS.
- F. SIZE: HOT & COLD WATER INSULATION SCHEDULE:
1. UP TO 3/4" PIPE SIZE: 1" THICK.
2. 1" PIPE SIZE OR LARGER: 1-1/2" THICK.

9. GENERAL DUTY VALVES:

- A. SHUT-OFF: USE BALL VALVES FOR DOMESTIC WATER.
- B. USE LUBRICATED PLUG VALVES FOR NATURAL GAS PIPING.

10. SHOP DRAWINGS AND MANUFACTURER'S DATA.

- A. THE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF ALL SHOP DRAWINGS OR DESCRIPTIVE LITERATURE ON ALL EQUIPMENT TO BE SUPPLIED.

11. AS BUILT DRAWINGS

- A. AT THE COMPLETION OF THE PLUMBING WORK, THE CONTRACTOR RESPONSIBLE FOR THE WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE AS-BUILTS DRAWINGS.

12. EXCAVATION

- A. PERFORM ALL EXCAVATION REQUIRED FOR THE INSTALLATION OF WORK IN THIS CONTRACT. EXCAVATION TO PROVIDE SUFFICIENT CLEARANCE FOR INSTALLATION OF WORK.

12. BACK FILLING

- A. BACK FILLING UPON INSPECTION TEST AND APPROVAL BY LOCAL AUTHORITIES AND ARCHITECT. NO CINDERS OR OTHER CORROSIVE MATERIAL WILL BE PERMITTED. FILL MUST BE WELL TAMPED AND PACKED FOR GREATEST POSSIBLE SETTLEMENT. NO ROCK SHALL BE USED.

14. TESTING & CLEANING

- A. ALL WATER PIPING TO BE DISINFECTED IN ACCORDANCE WITH AWWA C-601-1954 AND CITY OF BUFFALO DEPT. OF WATER REQUIREMENTS.
- B. PRESSURE TEST
1. HOT & COLD WATER: 150PSIG HYDROSTATIC FOR 4 HOURS.
2. NATURAL GAS: 15PSIG AIR PRESSURE FOR 1 HOUR.
3. SANITARY WASTE & VENT: FILL WITH WATER TO 10FT ABOVE HIGHEST FIXTURE FOR 8 HOURS.
4. REPAIR AS NECESSARY AND RETEST.

15. PLUMBING FIXTURES

- A. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED IN SETTING FIXTURES AND ALL ROUGHING TO BE CENTERED.

16. CHROMIUM WORK

- B. ALL FITTINGS AND EXPOSED PIPE, SCREWS, NUTS, WASHERS, WALL PLATES, RIM GUARDS, CHROMIUM PLATED BRASS, TEFLON TAPE SHALL BE USED ON ALL SCREWED JOINTS FOR CHROMIUM PIPE.

17. PLUMBING FIXTURES

ALL FIXTURES TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS SPECIFIED BELOW OR EQUAL AS APPROVED BY OWNER.

T-1

17" HIGH FLOOR MOUNTED VITREOUS CHINA TOILET. ADA COMPLIANT, ELONGATED BOWL WITH 1-1/2" TOP SPUD, 1.6GPF, AMERICAN STANDARD 'MADERA' MODEL #3043.660 OR APPROVED EQUAL, WITH BEMIS MODEL #1655SSCT EXTRA HEAVY-DUTY OPEN FRONT SEAT W/SELF-SUSTAINING HINGE, W/O COVER, AND 4YEAR BATTERY OPERATED SELECTRONIC FLUSH VALVE – 1.6GPF. PROVIDE RING AND BOLTS, SUPPLY PIPING CHROME PLATED ESCUTCHEON. COLOR OF WATER CLOSET AND SEAT SHALL BE WHITE.

U-1

HIGH EFFICIENCY VITREOUS CHINA URINAL, WHITE, 3/4" TOP SPUD, AMERICAN STANDARD WASHBROOK FLOWISE MODEL 6590.001EC OR APPROVED EQUAL, WITH SLOAN MODEL G2 8188 BATTERY OPERATED FLUSH VALVE, 1.0GPF, 3/4"IPS. PROVIDE SUPPLY PIPING AND CHROME PLATED ESCUTCHEON. FOR ADA LOCATIONS, MOUNT WITH RIM AT 24" AFF.

S-1

UNDERMOUNT VITREOUS CHINA SINK, ADA COMPLIANT, 17"x14"x5-1/2"D BOWL, FRONT OVERFLOW, HIGH GLOSS, LESS STOPPER, WHITE (AMERICAN STANDARD 'OVALYN RELIANT' MODEL 0496221.020 PROVIDE OFFSET DRAIN, GRID STRAINER, LOOSE KEY STOP CONTROL, CHROME PLATED ESCUTCHEON AND SUPPLIES, SLOAN OPTIMA SENSOR FAUCET MODEL #EAF-150.

UNDER COUNTER SUPPLY AND WASTE PIPING SHALL BE COVERED WITH LAV GUARD2 PIPE COVERS AS MANUFACTURED BY TRUBRO, INC OR APPROVED EQUAL. COLOR OF PIPE COVERS SHALL BE WHITE.

FWC-1

ADA COMPLIANT, DUAL HEIGHT, REFRIGERATED, FILTERED WATER COOLER WITH BOTTLEFILLING STATION, 8GPH, 115V, 6A, 370W, (ELKAY MODEL #LZSTLBSLX WITH SIX (6) MODEL #51300C REPLACEMENT FILTERS, MODEL #MLP200 WALL CARRIER. PROVIDE VALVES, WATER SUPPLY TUBING, AND TRAPS.

MS-1

MOP SINK, 24"x24"x10"H, E.L. MUSTEE MODEL 65M, ONE PIECE MOLDED FIBERGLASS BASIN, SEALED DRAIN FOR 3" PIPE, REMOVABLE STAINLESS STEEL STRAINER SERVICE FAUCET (CHICAGO MODEL 897-RCF): CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, AND 3/4"HOSE THREAD ON SPOUT. PROVIDE WITH HOSE & HOSE HOLDER, MOP HANGER, S/S BUMPER GUARDS, PAIL HOOK.

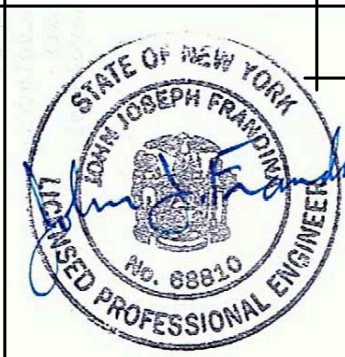
FD

FLOOR DRAIN SHALL BE WATTS MODEL FD-100-A, EPOXY COATED CAST IRON BODY, PIPE SIZE PER DRAWING. ADJUSTABLE HEEL-PROOF NICKLE-BRONZE STRAINER, NO-HUB OUTLET, WITH 4" INLINE TRAP SEAL (RECTORSEAL 'SURESEAL' MODEL #97044 OR EQUAL).

NFWH

NON-FREEZE WALL HYDRANT, CHROME FACE, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, WATTS MODEL HY-420.

END



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REVISIONS:


DATE: FEBRUARY 13, 2023

by designs your	to life	residential church	design	PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK	CONTENTS ON SHEET: PLUMBING SPECIFICATIONS
build on CLIENT NAME:	TOWN OF PENDLETON	commercial	*		

DRAWING NUMBER:

P-3

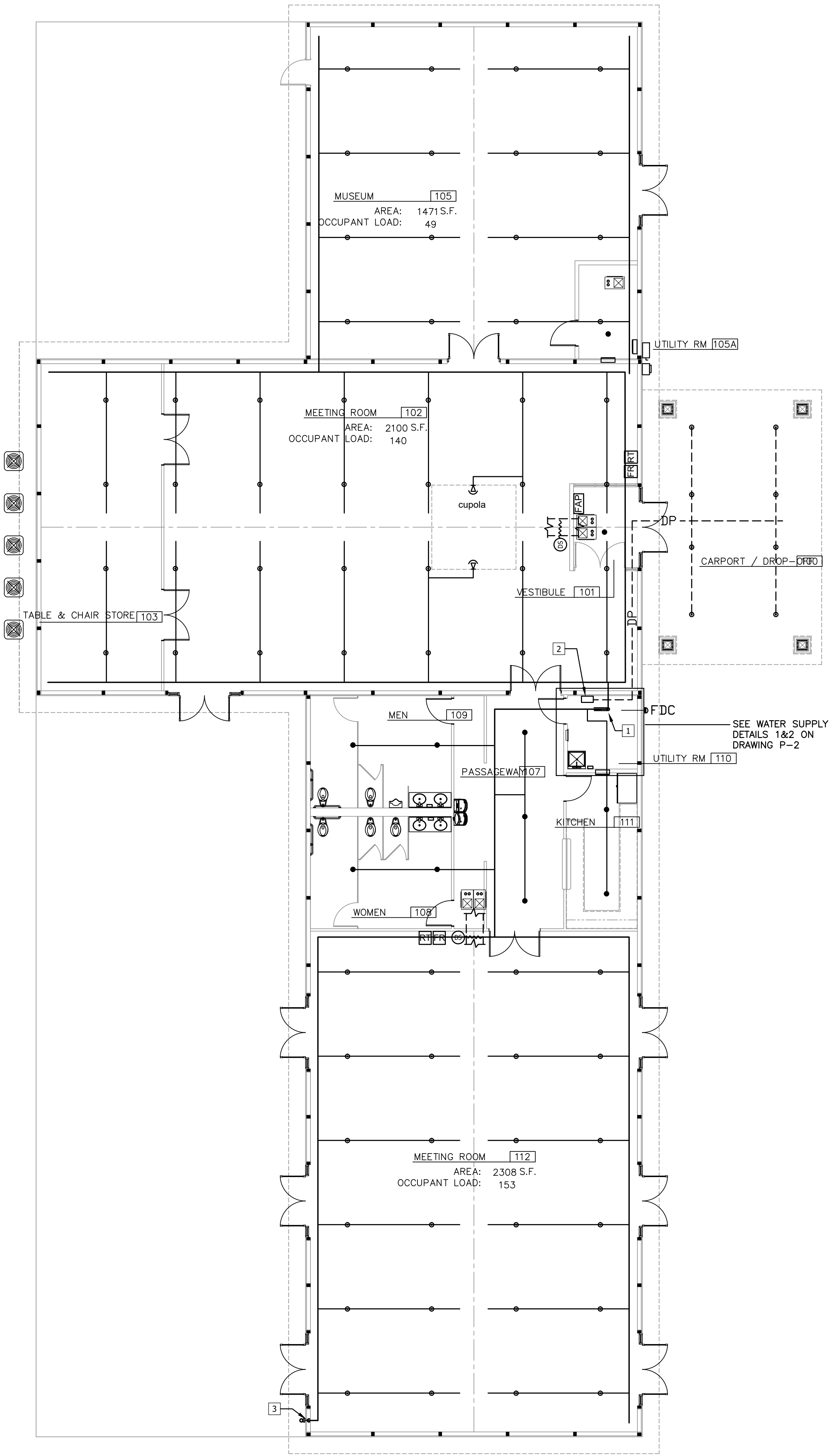
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1ST FLOOR PLAN

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

2

GENERAL NOTES

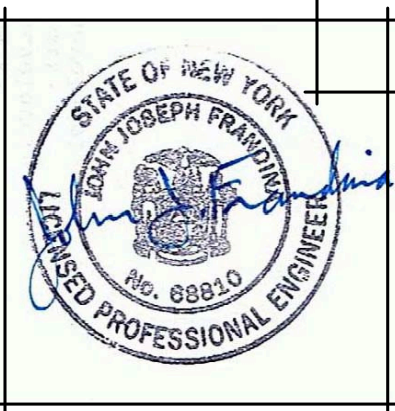
- A. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES WITH LOCAL AMMEDNMENTS. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- B. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL EXISTING CONDITIONS.
- C. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE ANY DAMAGED CEILING TILES TO MATCH EXISTING.
- D. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING AND REPAIRING OF MATERIALS AND FINISHES THAT ARE DISTURBED BY THEIR RESPECTIVE TRADES.
- E. WHERE PIPING PASSES THROUGH FIRE OR SMOKE BARRIER, THE PENETRATION SHALL BE PROPERLY SEALED AN APPROVED FIRE RATED MATERIAL TO MAINTAIN THE RATING OF THE PENETRATED WALL OR FLOOR.
- F. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER TRADES. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.
- G. LEAVE ALL PIPING, HANGERS, FITTINGS, ETC. CLEAN AND FREE OF DEBRIS READY TO RECEIVE PAINT. IN EXPOSED AREAS, PROVIDE AND INSTALL MATERIAL TO COVER SPRINKLERS TO PROTECT DURING PAINTING. PAINTING CONTRACTOR WILL REMOVE PROTECTIVE MATERIALS UPON COMPLETION.
- H. PROVIDE AND HANG PVC TUBE WITH CAPS LOCATED NEAR SPRINKLER RISERS LABEL "SPRINKLER AS-BUILT DRAWINGS" & PROVIDE 1 COMPLETE SET OF DRAWINGS WITHIN TUBE. IN ADDITION, CONTRACTOR SHALL PROVIDE COMPLETE SET OF CLOSEOUT DOCUMENTATION NOT LIMITED TO, AS-BUILT DRAWINGS, TEST CERTIFICATES, SPARE SPRINKLERS AND HEAD WRENCHES, EQUIPMENT O&M MANUAL.
- I. SPRINKLER LOCATIONS ARE APPROXIMATE. CONFIRM ROUTING, HEAD LOCATIONS AND TYPES WHILE PREPARING SHOP DRAWINGS.
- J. PROVIDE ALL FACTORY MADE LABELS AND SIGNAGE AT RISERS, TEST CONNECTIONS, DRAINS, AND FDC.

DRAWING NOTES

- 1 4" SPRINKLER ALARM ASSEMBLY. REFER TO DETAIL 2 ON DRAWING FP-3.
- 2 DRYPIPE VALVE ASSEMBLY.
- 3 INSPECTOR'S TEST DRAIN.

SYMBOL LEGEND:

- FIRE PROTECTION PIPING MAIN
- FIRE PROTECTION BRANCH PIPING
- PENDANT SPRINKLER, K5.6, WHITE, 165°F
- UPRIGHT SPRINKLER, K5.6, BRASS, 165°F
- ⊗ SIDEWALL SPRINKLER, K5.6, WHITE, 165°F
- DP --- DRY PIPE



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 13, 2023

by designs to build on client name: TOWN OF PENDELTON

residential church design

commercial PROJECT LOCATION: CAMPBELL BLVD PENDELTON, NEW YORK

PROJECT TITLE: PENDLETON COMMUNITY CENTER

CONTENTS ON SHEET: FIRE PROTECTION

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DRAWING NUMBER:

FP-1

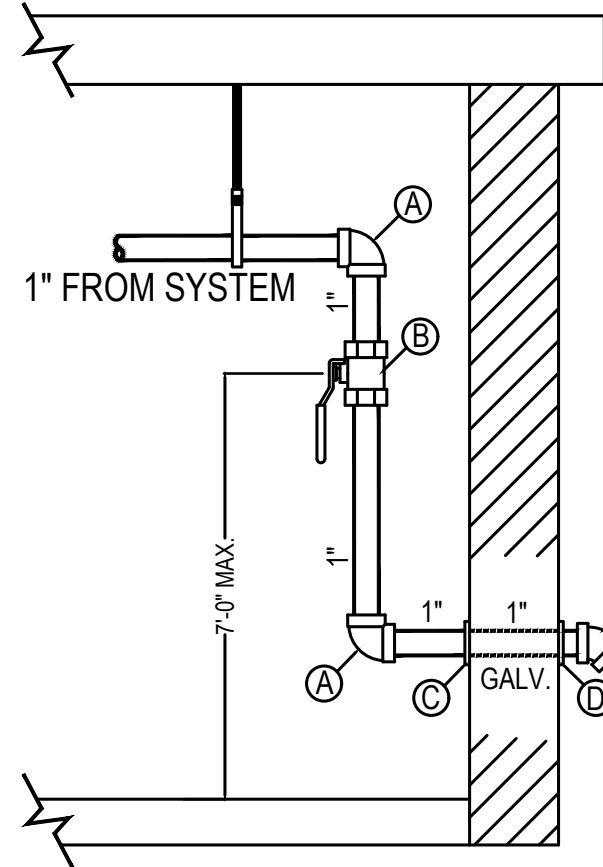
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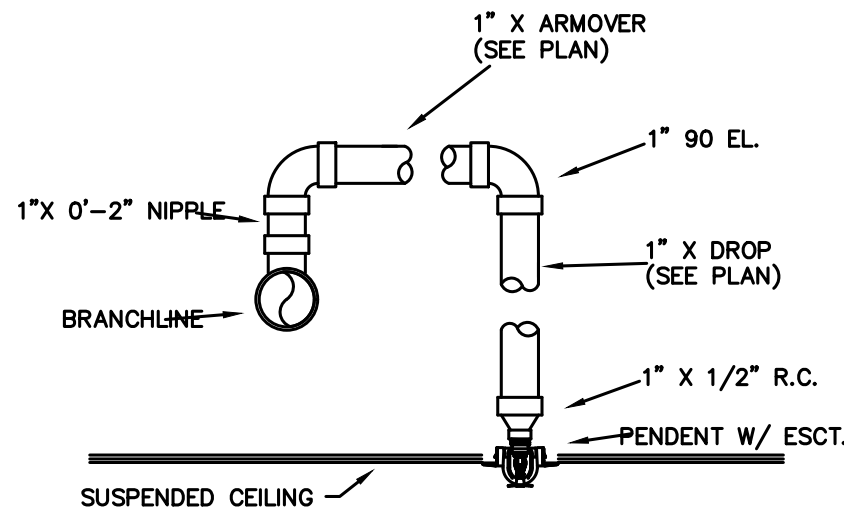
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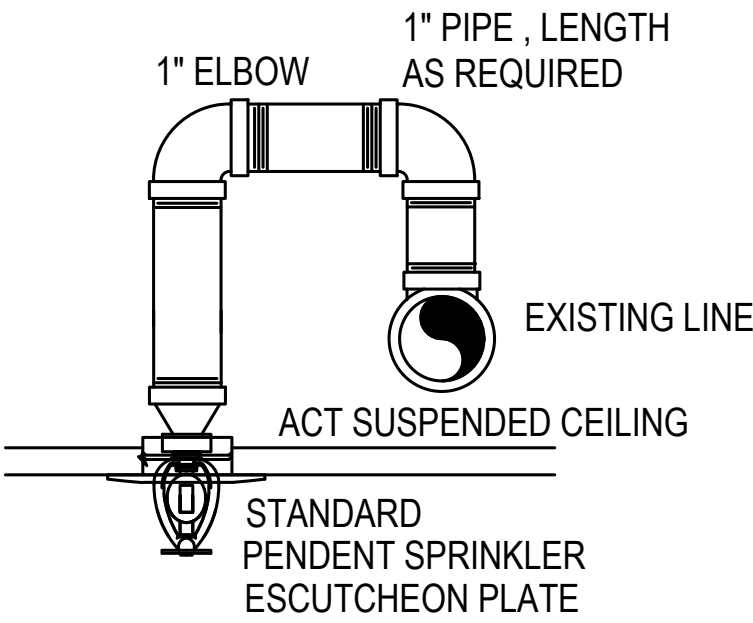


- Ⓐ 1" CAST IRON ELBOW  
Ⓑ 1" BALL VALVE WITH INSPECTORS TEST SIGN  
Ⓒ 1" CAST IRON WALL PLATE  
Ⓓ 1" GALVANIZED WALL PLATE  
Ⓔ 1" x 1/2" GALVANIZED 45° ELBOW  
Ⓕ SMOOTH BORE CORROSION RESISTANT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER

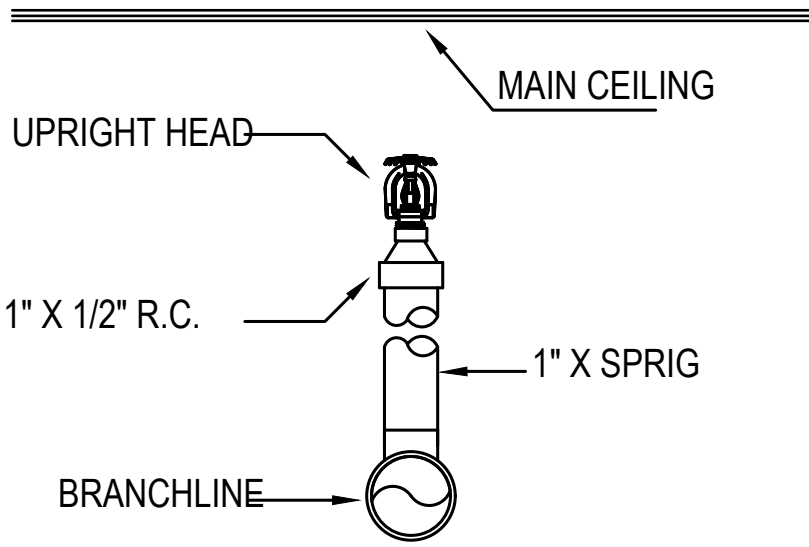
1 INSPECTOR'S TEST DETAIL -WET SYSTEM  
NTS



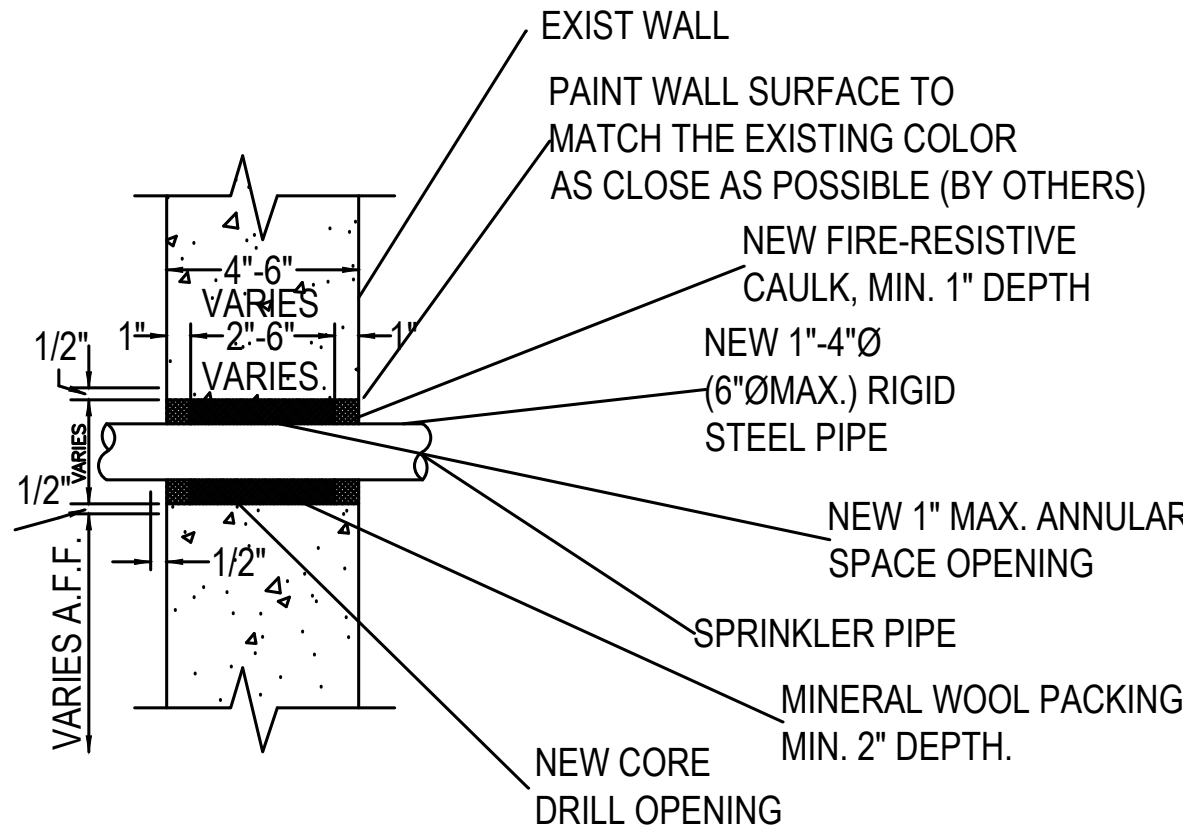
2 TYP. RETURN BEND ASSEMBLY  
NTS



3 SWING JOINT DETAIL  
NTS

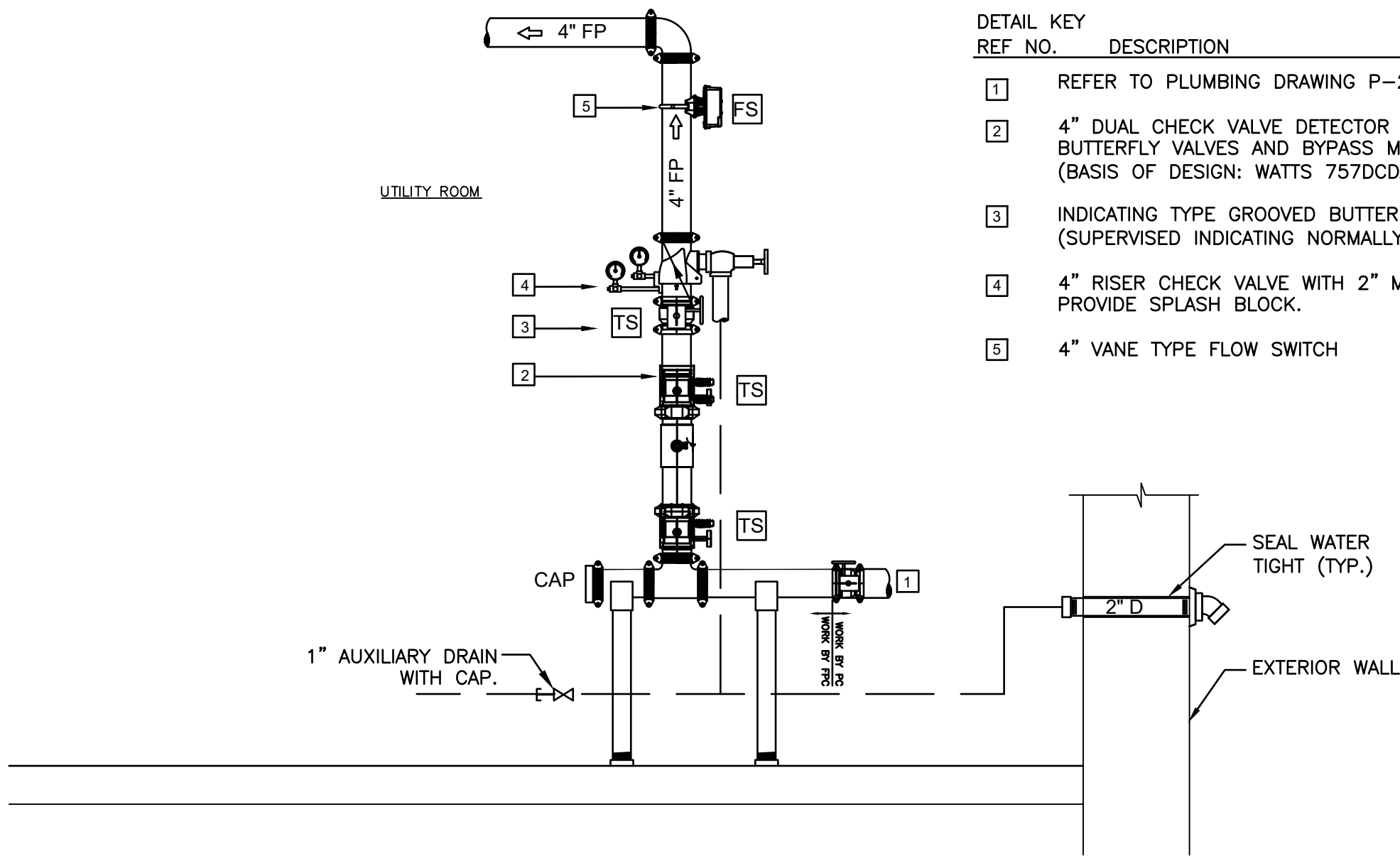


4 UPRIGHT HEAD DETAIL  
NTS



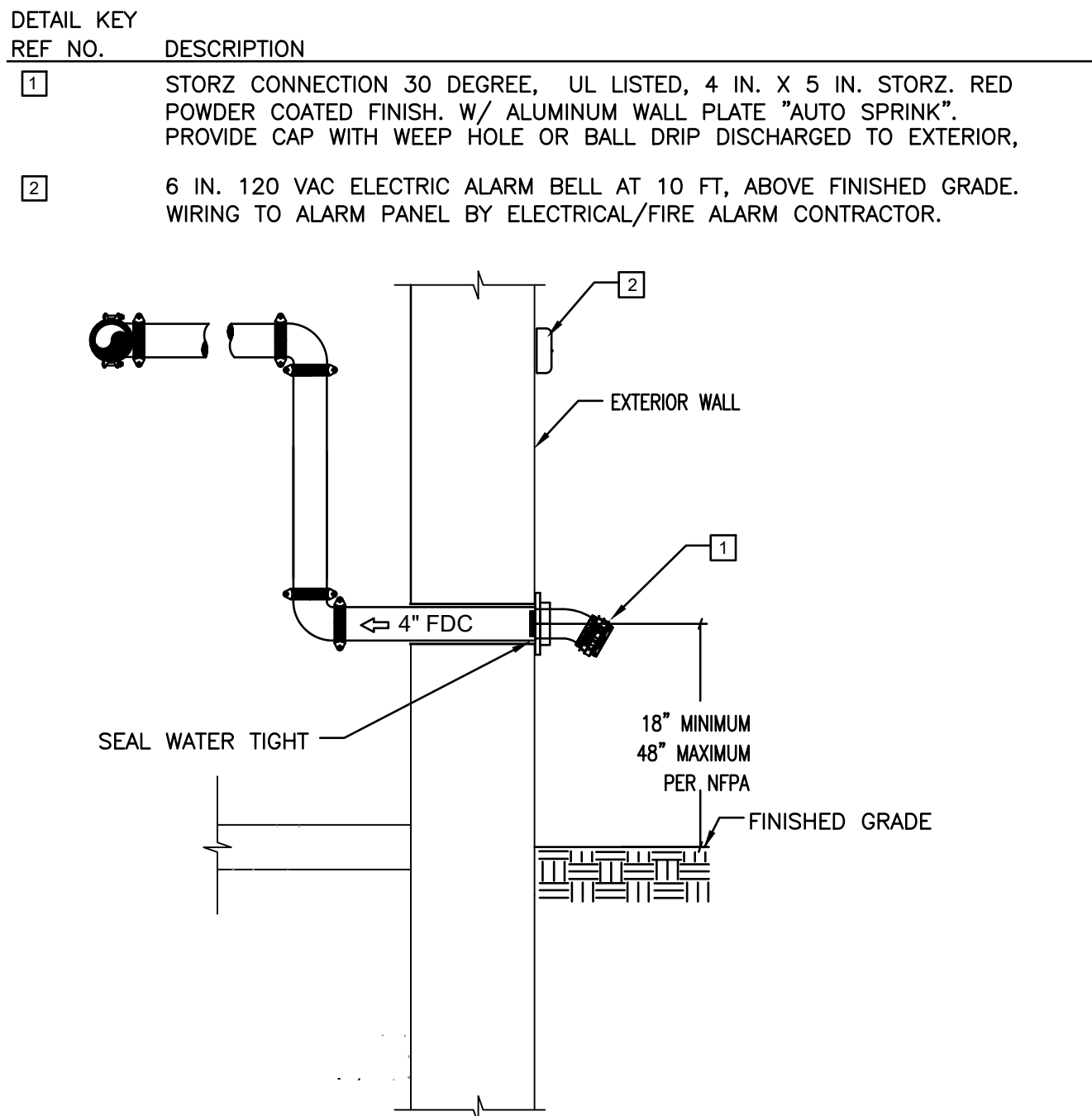
\* COMPLY WITH UL THROUGH PENETRATION FIRESTOP SYSTEM NO. CAJ1017 OR EQUIVALENT FOR A 1-HOUR OR 2-HOUR FIRE RATING AS REQUIRED FOR STEEL SPRINKLER PIPE.

5 FIRE STOPPING DETAIL  
FIRE STOPPING OF FIRE RATED WALL PENETRATIONS FOR STEEL PIPE



REF. NO.	DESCRIPTION
1	REFER TO PLUMBING DRAWING P-2 FOR CONTINUATION.
2	4" DUAL CHECK VALVE DETECTOR ASSEMBLY WITH GROOVED BUTTERFLY VALVES AND BYPASS METER IN GPM. (BASIS OF DESIGN: WATTS 757DCDA-BFG-GPM)
3	INDICATING TYPE GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH. (SUPERVISED INDICATING NORMALLY OPEN)
4	4" RISER CHECK VALVE WITH 2" MAIN DRAIN PIPED TO EXTERIOR. PROVIDE SPLASH BLOCK.
5	4" VANE TYPE FLOW SWITCH

6 FIRE PROTECTION RISER DETAIL  
NTS



- GENERAL NOTES:
- PROVIDE 7 IN. X 10 IN. REFLECTIVE "FIRE DEPARTMENT CONNECTION" SIGN ANCHORED TO BUILDING IN COMPLIANCE WITH NFPA-13.
  - CONTRACTOR SHALL COORDINATE LOCATION OF FIRE DEPARTMENT CONNECTION WITH BUFFALO FIRE DEPARTMENT PRIOR TO INSTALLATION.

7 FIRE DEPARTMENT CONNECTION DETAIL  
NTS

## GENERAL NOTES:

- CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL TESTING AND CERTIFICATION OF BACKFLOW DEVICES.
- ALL VALVES ON FIRE PROTECTION SERVICES SHALL BE EQUIPPED WITH TAMPER SWITCH AND CONNECTED TO SUPERVISED FIRE ALARM SYSTEM.

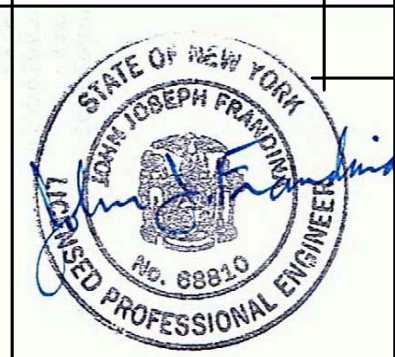
DESIGN NOTES
1. SYSTEM DESIGN AND INSTALLATION SHALL BE IN COMPLIANCE WITH NFPA 13.
2. SYSTEM TYPE - WET AUTOMATIC SPRINKLER SYSTEM DESIGNED FOR COMMERCIAL ORDINARY HAZARD OCCUPANCY
3. WATER SUPPLY: PUBLIC WATER SUPPLY FLOW TEST DATA PROVIDED BY - TOWN OF PENDELTON WATER DEPT. 5-17-2021 STATIC PRESSURE - 57PSI RESIDUAL PRESSURE - 52 PSI @ 1060 GPM
4. MATERIAL SPECIFICATIONS - ALL PIPING SHALL BE STEEL WITH APPROVED FITTINGS - ALL RISER, DRAIN PIPING & FITTINGS SHALL BE BLACK STEEL.
5. TESTING - TEST ALL PIPING AFTER INSTALLATION IS COMPLETE TO 200 PSI FOR A MINIMUM OF 2 HRS
6. ALL PIPING HANGERS AND ATTACHMENTS MUST COMPLY WITH NFPA-13
7. HYDRAULIC NAME PLATE SHALL BE LOCATED AT SYSTEM RISER
8. CONTRACTOR SHALL PROVIDE FINAL SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PE STAMPED FOR LOCAL FIRE MARSHALL APPROVAL AND ONE ELECTRONIC COPY FOR ENGINEER'S REVIEW.

INSTALLATION NOTES
- SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S LISTING
- FIRE STOP ALL RATED PENETRATIONS TO MAINTAIN WALL / CEILING RATED ASSEMBLY
- CONTRACTOR SHALL PROVIDE COMPLETED MATERIAL AND TEST CERTIFICATES AS IDENTIFIED IN NFPA-13
- CONTRACTOR SHALL COORDINATE AND ASSIST IN TESTING OF SPRINKLER FIRE ALARMS
- PROVIDE STUD PIPE PROTECTORS AT ALL STUD PENETRATIONS

SYMBOL LEGEND
● 1/2" 155° OR WHITE CONCEALED PENDENT - K = 5.6
○ 1/2" 155° OR BRASS UPRIGHT - K = 5.6
⌚ 1/2" 155° OR BRASS SIDEWALL WITH GUARD - K = 5.6
⌚ ELECTRIC SPRINKLER ALARM BELL - 24v
OH1 AREA DESIGNATED ORDINARY HAZARD WITH 2 GPM OVER 1,500 SQ. FT. (MEZZANINES, UTILITY ROOMS)
1R AREA DESIGNATED ACCORDING TO LIGHT HAZARD WITH .10 GPM OVER 1,500 SQ. FT. (RESTROOMS, PASSAGEWAYS, KITCHENETTE)

—	FIRE PROTECTION PIPING MAIN
—	FIRE PROTECTION BRANCH PIPING

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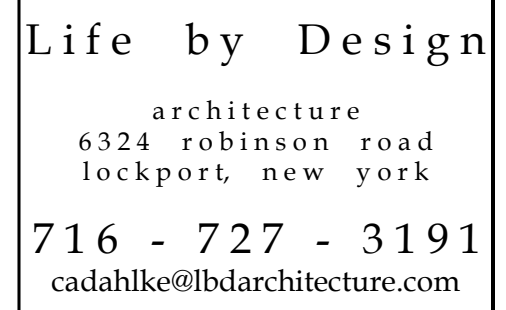
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by designs to build on client name.	residential church design	PROJECT LOCATION: CAMPBELL BLVD PENDLETON, NEW YORK	CONTENTS ON SHEET: FIRE PROTECTION DETAILS
TOWN OF PENDLETON			PROJECT TITLE: PENDLETON COMMUNITY CENTER

DRAWING NUMBER:

FP-2





DESIGNER:

## REVISIONS

DATE: FEBRUARY 13, 2023

commercial	*	residential	*
PROJECT LOCATION:			
CAMPBELL BLVD PENDLETON, NEW YORK			
CONTENTS ON SHEET:			
ELECTRICAL SERVICE DETAILS			

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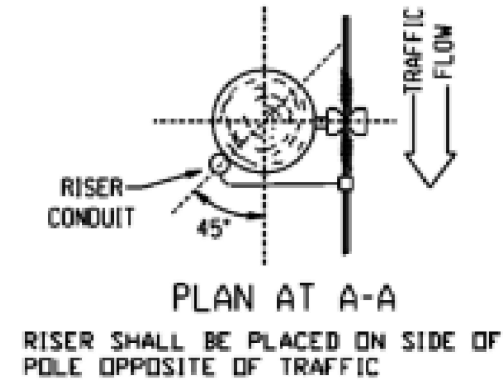
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PENDLETON COMMUNITY CENTER

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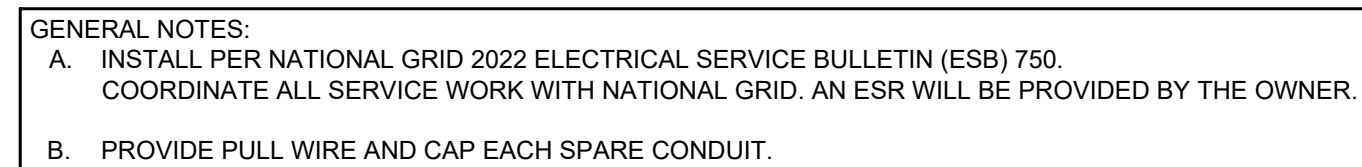
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**SPECIAL GROUNDING PROVISIONS FOR STEEL CONDUIT INSTALLATIONS ONLY**

- INSTALL LISTED "U" BOLT WITHIN 6" FROM TOP OF STEEL CONDUIT
- PROVIDE 30" OF GROUND WIRE PER NEC REQUIREMENTS. MIN #4 AWG COPPER FOR COMPANY CONNECTIONS
- PVC CONDUIT REQUIRES NO GROUNDING PROVISIONS

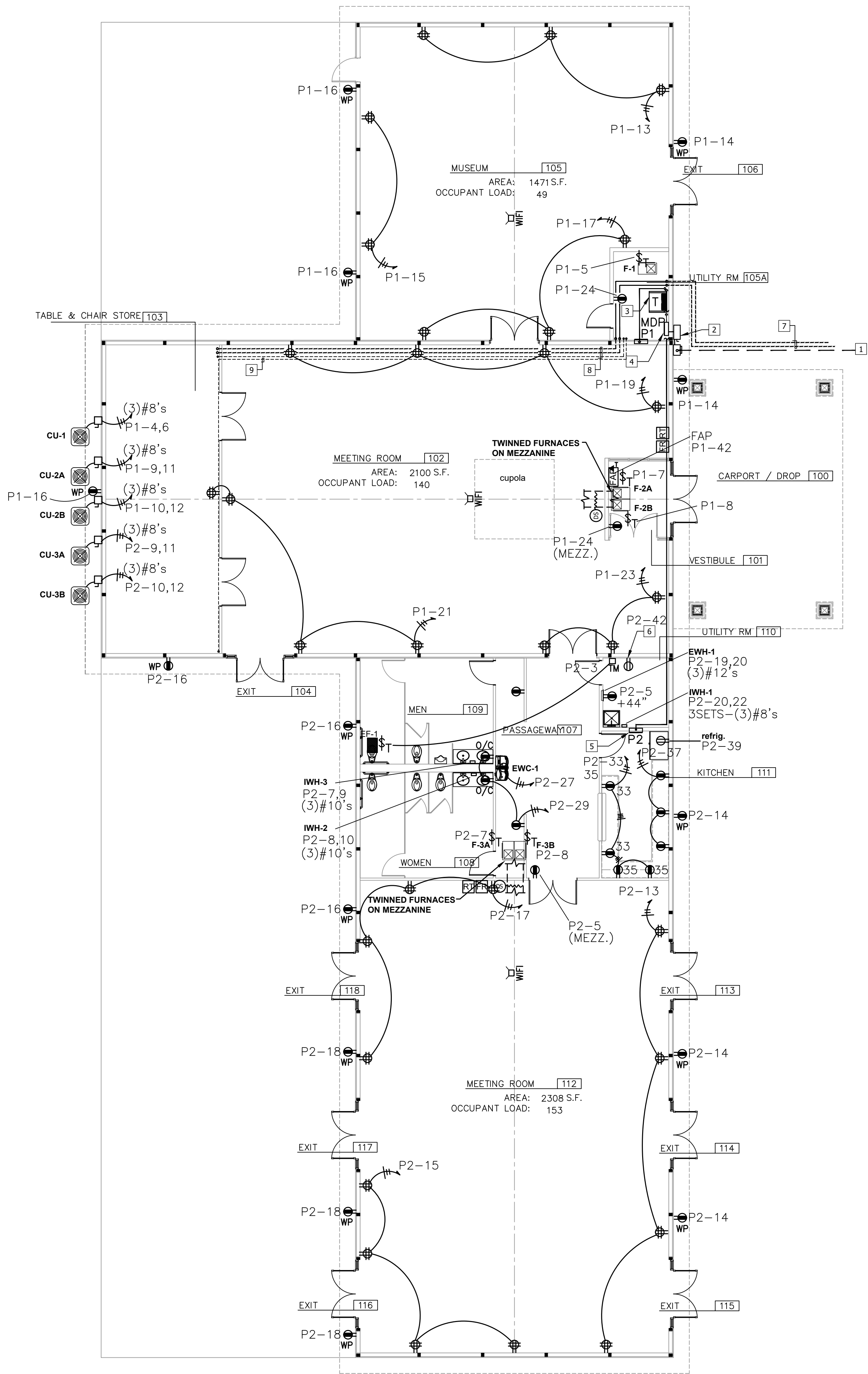


4 MAIN SERVICE POLE DETAIL

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1ST FLOOR PLAN

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

2

PANELBOARD SCHEDULE															
MDP		VOLTS: 208Y/120 PHASE: 3 WIRE: 4		MAINS RATING: MCB: 400A MLO:		A.I.C. RATING: 42K BRKR SPACE: MTG./NEMA # 1			LOCATION: UTILITY RM 112 SOURCE: NAT. GRID/MAIN DISCONNECT MAKE: SQ D H-LINE						
#	LOAD			BREAKER		CONNECTED LOAD (AMPS)			BREAKER		LOAD		#		
	TYPE	DESCRIPTION		AMP	POLE	PH. A	PH. B	PH. C	POLE	AMP	DESCRIPTION			TYPE	
1	PWR	P1		200	3	55	146			3	200	P2	PWR	2	
3	PWR							90	159					PWR	4
5	PWR								85	135				PWR	6
7	PWR	SPARE		200	3					3	200	SPARE	PWR	8	
9	PWR													PWR	10
11	PWR													PWR	12
13	PWR	SPARE		100	3					3	100	SPARE	PWR	14	
15	PWR													PWR	16
17	PWR													PWR	18
19	PWR	SPARE		20	1					1	20	SPARE	PWR	20	
21	PWR	SPARE		20	2					1	20	SPARE	PWR	22	
23														PWR	24
25															26
27															28
29															30

DEMAND/DIVERSITY FACTOR SCHEDULE						
LOAD TYPE	DEMAND	DIVERSITY	PH. A (AMPS)	PH. B (AMPS)	PH. C (AMPS)	KVA
LIGHTING [LTG]	100%	100%	0	0	0	0
POWER [PWR]						
- 1ST 10 KVA	100%	50%	14	14	14	5.04
- ADDITIONAL KVA	50%	50%	43.25	55.25	48	17.58
HVAC	100%	75%	0	0	0	0
ELECTRIC HEAT [EH]	100%	100%	0	0	0	0
OTHER [OT]	100%	50%	0	0	0	0
TOTAL ANTICIPATED LOAD:			57.25	69.25	62	22.62

PANELBOARD SCHEDULE														
P1		VOLTS: 208Y/120 PHASE: 3 WIRE: 4		MAINS RATING: MCB: - MLO: 200A		A.I.C. RATING: 10K BRKR SPACE: 42-POLE MTG./NEMA # 1		LOCATION: UTILITY RM 105A SOURCE: NATIONAL GRID MAKE: SQUARE D E2 SERIES						
		LOAD		BREAKER		CONNECTED LOAD (AMPS)			BREAKER		LOAD			
#	TYPE	DESCRIPTION	AMP	POLE	PH. A	PH. B	PH. C	POLE	AMP	DESCRIPTION	TYPE	#		
1	LTG	EXT LIGHTING	20	1	4	0		1	20	SPARE	PWR	2		
3	PWR	SPARE	20	1			0	17			HVAC	4		
5	HVAC	FURNACE F-1	20	1				12	17		COND UNIT CU-1	HVAC	6	
7	HVAC	FURNACE F-2A	20	1				12	17		FURNACE F-2B	HVAC	8	
9	HVAC	COND UNIT CU-2A	40	2			17	17			COND UNIT CU-2B	HVAC	10	
11	HVAC							17	17			HVAC	12	
13	PWR	RCPT - MUSEUM 105	20	1	8	6		1	20	RCPT - EXTERIOR FRONT	PWR	14		
15	PWR	RCPT - MUSEUM 105	20	1			8	6	1	20	RCPT - EXTERIOR REAR	PWR	16	
17	PWR	RCPT - MUSEUM 105	20	1				8	1	20	SPARE	PWR	18	
19	PWR	RCPT - MEETING 102	20	1	8				1	20	SPARE	PWR	20	
21	PWR	RCPT - MEETING 102	20	1			8			1	20	SPARE	PWR	22
23	PWR	RCPT - MEETING 102	20	1				8		1	20	SPARE	PWR	24
25	PWR	SPARE	20	1					1	20	SPARE	PWR	26	
27	PWR	SPARE	20	1					1	20	SPARE	PWR	28	
29	PWR	SPARE	20	1					1	20	SPARE	PWR	30	
31	PWR	SPARE	20	1					1	20	SPARE	PWR	32	
33	PWR	SPARE	20	1			9		1	20	LIGHTING - MUSEUM RM 105	LTG	34	
35	PWR	SPARE	20	1					1	20	SPARE	LTG	36	
37	PWR	SPACE				5			1	20	EXTERIOR LIGHTS -WALLPKS	LTG	38	
39	PWR	SPACE					8		1	20	EXTERIOR LIGHTS -CARPORT	LTG	40	
41	PWR	SPACE						6	1	20	FIRE ALARM PANEL	PWR	42	
TOTAL CONNECTED LOAD:					55	90	85	NOTE: RECESSED ENCLOSURE, HINGED LOCKABLE COVER.						
TOTAL CONNECTED KVA:						27.6								

DEMAND/DIVERSITY FACTOR SCHEDULE						
LOAD TYPE	DEMAND	DIVERSITY	PH. A (AMPS)	PH. B (AMPS)	PH. C (AMPS)	KVA
LIGHTING [LTG]	100%	100%	9	17	0	3.12
POWER [PWR]						
- 1ST 10 KVA	100%	50%	11.0	11.0	11.0	4.0
- ADDITIONAL KVA	50%	50%	0.0	0.0	0.0	0.0
HVAC	100%	75%	18.0	38.3	47.3	12.4
ELECTRIC HEAT [EH]	100%	100%	0.0	0.0	0.0	0.0
OTHER [OT]	100%	50%	0.0	0.0	0.0	0.0
TOTAL ANTICIPATED LOAD:			38.0	66.3	58.3	19.5

PANELBOARD SCHEDULE														
P2		VOLTS: 208Y/120 PHASE: 3 WIRE: 4		MAINS RATING: MCB: - MLO: 200A		A.I.C. RATING: 10K BRKR SPACE: 42-POLE MTG./NEMA # 1		LOCATION: UTILITY RM 110 SOURCE: P1 MAKE: SQUARE D E2 SERIES						
#	LOAD DESCRIPTION		BREAKER AMP	POLE	CONNECTED LOAD (AMPS)				BREAKER POLE	AMP	LOAD DESCRIPTION		TYPE	#
1	PWR	SPARE	20	1	4	6			1	20	NIGHT LIGHTS	LTG	2	
3	PWR	TIMER/EXHAUST FAN EF-1	20	1		6	17				SPARE	PWR	4	
5	PWR	RCPT - UTILITY 110	20	1			12	17	1	20	SPARE	PWR	6	
7	HVAC	FURNACE F-3A	20	1	12	12			1	20	FURNACE F-3B	HVAC	8	
9	HVAC	COND UNIT CU-3A	40	2			16	16				COND UNIT CU-3B	HVAC	10
11	HVAC								2	40			HVAC	12
13	PWR	RCPT - MEETING 112	20	1	8	12			1	20	RCPT - EXTERIOR FRONT	PWR	14	
15	PWR	RCPT - MEETING 112	20	1			8	12	1	20	RCPT - EXTERIOR REAR	PWR	16	
17	PWR	RCPT - MEETING 112	20	1			8	12	1	20	RCPT - EXTERIOR REAR	PWR	18	
19	HVAC	ELEC WALL HEATER EWH-1	20	2	5	42			2	90	INSTANT WATER HEATER IWH-2	PWR	20	
21	HVAC						5	42					PWR	22
23	PWR	INSTANT WATER HEATER IWH-2	30	2				14	14	2	30	INSTANT WATER HEATER IWH-3	PWR	24
25	PWR				14	14							PWR	26
27	PWR	RCPT - ELEC WTR COOLER	20	1			8	9	1	20	LIGHTING - MEETING RM 102	LTG	28	
29	PWR	RCPT - RESTRMS / PASSAGE	20	1			6	6	1	20	LIGHTING - RESTRMS/KITCH	LTG	30	
31	PWR	SPARE	20	1	0	9					LIGHTING - MEETING RM 112	LTG	32	
33	PWR	RCPT - KITCHEN (WEST WALL)	20	1			8	4			LIGHTING - STORAGE RM 103	LTG	34	
35	PWR	RCPT - KITCHEN (SO. WALL)	20	1					1	20	SPARE	PWR	36	
37	PWR	RCPT - KITCHEN (EAST WALL)	20	1	8				1	20	SPARE	PWR	38	
39	PWR	RCPT - KITCHEN (REFRIG.)	20	1			8		1	20	SPARE	PWR	40	
41	PWR	SPARE	20	1					6	1	20	DRY SYSTEM AIR COMP	PWR	42
TOTAL CONNECTED LOAD:					146	159	135	NOTE: RECESSED ENCLOSURE, HINGED LOCKABLE COVER.						
TOTAL CONNECTED KVA:						52.8								

DEMAND/DIVERSITY FACTOR SCHEDULE						
LOAD TYPE	DEMAND	DIVERSITY	PH. A (AMPS)	PH. B (AMPS)	PH. C (AMPS)	KVA
LIGHTING [LTG]	100%	100%	15	13	6	4.08
POWER [PWR]						
- 1ST 10 KVA	100%	50%	14.0	14.0	14.0	5.0
- ADDITIONAL KVA	50%	50%	18.5	20.3	17.3	6.7
HVAC	100%	75%	21.8	27.8	24.0	8.8
ELECTRIC HEAT [EH]	100%	100%	0.0	0.0	0.0	0.0
OTHER [OT]	100%	50%	0.0	0.0	0.0	0.0
TOTAL ANTICIPATED LOAD:			69.3	75.0	61.3	24.7

ELECTRICAL SYMBOLS

- INDICATES A HOME-RUN CIRCUITS AS SPECIFIED TO THE INDICATED PANELBOARD & CIRCUIT. ALL WIRING SO INDICATED IS MINIMUM SIZE #12 THHN COPPER IN EMT. MC CABLE IS ACCEPTABLE.
- INDICATED SPECIFICATION GRADE G.F.C.I. TYPE NEMA 5-20R DUPLEX RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT ABOVE COUNTER OR AS INDICATED.
- INDICATED SPECIFICATION GRADE NEMA 5-20R DUPLEX RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT 18" A.F.F. UNLESS OTHERWISE SPECIFIED.
- INDICATED SPECIFICATION GRADE NEMA 5-20R QUADPLEX RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT 18" A.F.F. UNLESS OTHERWISE SPECIFIED.
- INDICATED SPECIFICATION GRADE NEMA 10-30R 208-230V RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT 18" A.F.F. UNLESS OTHERWISE SPECIFIED.
- O.C. = OVER COUNTER A.C. = ABOVE CEILING  
U.C. = UNDER COUNTER C.B. = CABINET BASE
- SINGLE POLE, 20A THERMAL OVERLOAD DISCONNECT SWITCH
- HEAVY DUTY FUSED DISCONNECT SWITCH
- STEEL JUNCTION BOX
- PLENUM RATED NETWORK CAT6 WIRE BACK TO UTILITY RM 105A
- PLENUM RATED NETWORK CAT6 WIRE BACK TO PHONE DEMARC UTILITY RM 105A
- 24/7 ELECTROMECHANICAL TIMER.
- WIFI ROUTER MOUNTED TO UNDERSIDE OF TRUSS OR CEILING WITH PLENUM RATED NETWORK CAT6 WIRE BACK TO PHONE DEMARC UTILITY RM 105A

DRAWING NOTES

- 400A, 3PHASE, 4WIRE UNDERGROUND SERVICE AND SPARES TO CT CABINET, METER, COLD SEQUENCED, REFER TO SINGLE-LINE ON DRAWING E-1. COORDINATE WORK WITH NATIONAL GRID.
- INSTALL NEMA 3R 400A, 480/277V, 3PH MAIN DISCONNECT SWITCH.
- 480/277V DELTA TO 208/120V Y DRY-TYPE TRANSFORMER, 150KVA (SQUARE D MODEL #EE150T3H).
- INSTALL 400A, 480/277V, 3PH, 4W PANEL (P1), 400A MCB (SQUARE D I- LINE, MODEL #HCM SERIES, TYPE 1). PROVIDE BREAKERS AS INDICATED.
- INSTALL 225A, 120/208V, 3PH, 4W SUB-PANEL (P2), MLO, 42 CIRCUIT (EATON POW-R- LINE CATALOG #P21A225LT42A01). PROVIDE MINIMUM 20A, 1P BREAKERS UNLESS OTHERWISE INDICATED.
- RECEPTACLE MOUNTED AT 60" AFF FOR DRY SYSTEM AIR COMPRESSOR.
- INSTALL (2) 3" SCHED 80 PVC CONDUITS FROM POLE. PROVIDE PULL WIRE IN EACH.
- INSTALL (2) 3" AND (1) 1-1/4" SCHED 80 PVC CONDUITS STUBBED UP TO 12" AFF IN RM 103. PROVIDE PULL WIRE IN EACH. INSTALL LB'S OR PULL BOXES AT TURNS. CONFIRM LOCATIONS AND ROUTING.
- EXTEND EXISTING SERVICE CONDUIT USING SCHED 80 PVC FROM SOUTH OF RM 103 TO RM 105. CONFIRM LOCATIONS AND ROUTING.



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REVISIONS:

DATE: FEBRUARY 13, 2023

residential church design

commercial PROJECT LOCATION: CAMPBELL BLVD PENDELTON, NEW YORK

to life your designs build on CLIENT NAME: TOWN OF PENDELTON

PROJECT TITLE: PENDELTON COMMUNITY CENTER

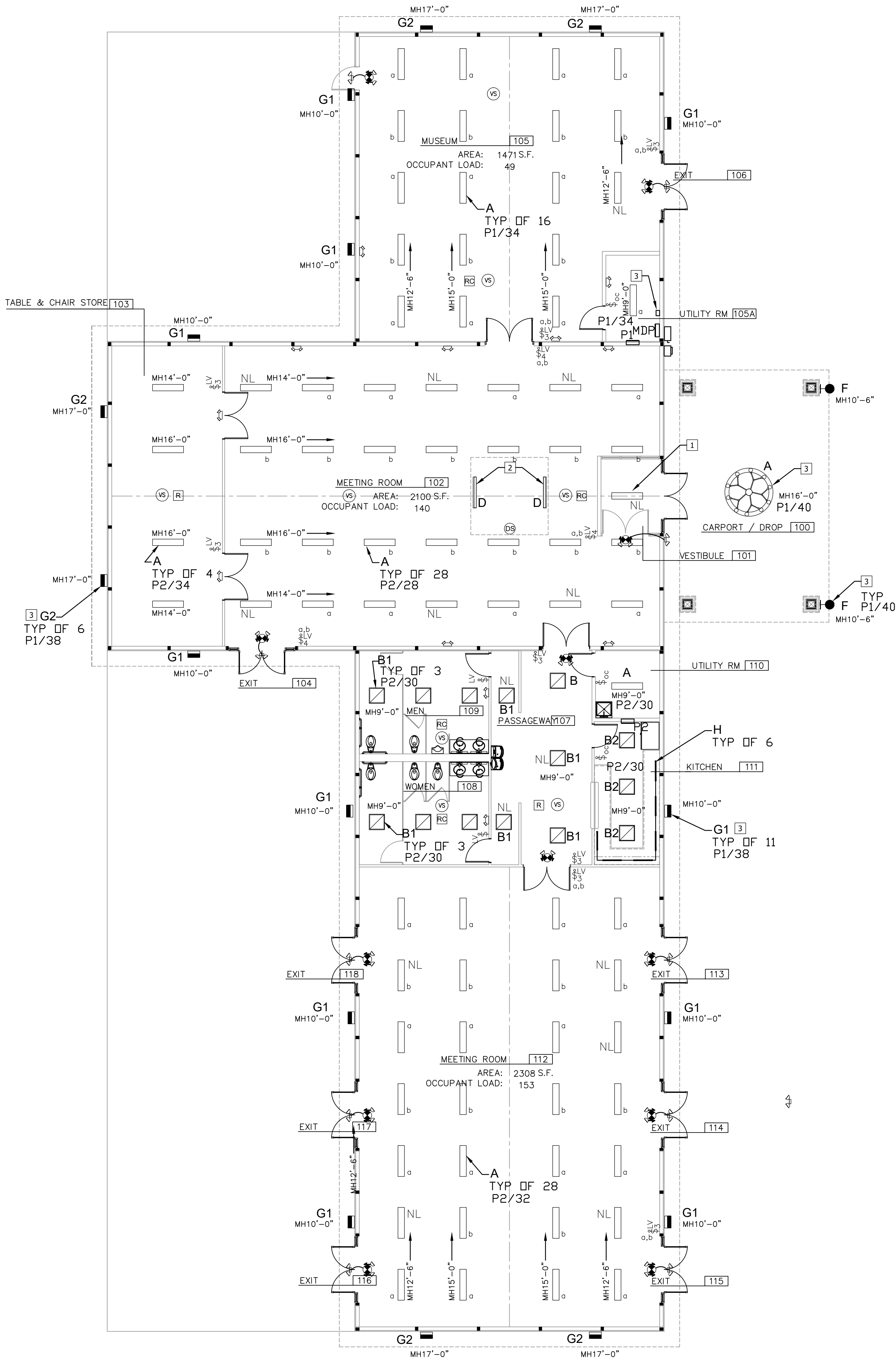
CONTENTS ON SHEET: ELECTRICAL - POWER & DATA

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1ST FLOOR PLAN

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

2

GENERAL NOTES:

1. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES AND DEVICES WITH THE ARCHITECT AND OWNER. MOUNTING HEIGHTS SHOWN ARE TO BOTTOM OF FIXTURE.
2. VERIFY EXACT LOCATION AND HEIGHTS OF ALL RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE EXIT AND EM LIGHTING FIXTURE WIRED UN-SWITCHED TO LOCAL LIGHTING AREA BRANCH CIRCUIT AHEAD OF SWITCH.
4. FIXTURES DESIGNATED AS NIGHTLIGHTS 'NL' AND EXIT SIGNS SHALL BE ON UNSWITCHED BRANCH CIRCUIT P2/2 FOR CONTINUOUS OPERATION.
5. SEAL ALL WALL PENETRATIONS WITH UL LISTED FIRE RATED CAULKING.

DRAWING NOTES

- 1 VESTIBULE FIXTURE.
- 2 COVE FIXTURE MOUNTED WITHIN CUPOLA WIRED THROUGH DAYLIGHT CONTROLLER.
- 3 PROVIDE ELECTRICAL 24 / 7 PROGRAMMABLE TIMERS (TM1: TORK MODEL #EW101B, 120V, 40A) FOR EXTERIOR FIXTURES: CHANDELIER, WALL SCONCES, AND WALL PACKS.

LUMINAIRE SCHEDULE

TYPE	SYMBOL	LUMINAIRE DESCRIPTION	LIGHT SOURCE	VOLTAGE	DESIGN BASIS OR EQUAL
A		4' LONG, SURFACE OR SUSPENDED LED, LINEAR WRAP, POLYCARBONATE LENS, INTEGRAL 0-10V DIMMABLE DRIVER	LED 4324Lm 33.1W 3500° K 82CRI	UNIV	EATON METALUX MODEL #4NWS3C3-UNV-MED-3500K
B1		2'x2', GENERAL LED PANEL, WHITE FROSTED ACRYLIC LENS, DIMMABLE.	LED 2720LMS 22W 3500° K 80CRI	UNIV	COOPER METALUX #22CGTS-L3C3-LOW-3500K
B2		2'x2', GENERAL LED PANEL, WHITE FROSTED ACRYLIC LENS, DIMMABLE.	LED 4700LMS 40.6W 3500° K 80CRI	UNIV	COOPER METALUX #22CGTS-L3C3-HIGH-3500K
C		2FT VANITY LIGHT, UL LISTED.	LED 2000LM 23W 3500° K	UNIV	COOPER METALUX #4BCLED-LD4-40SL-F-UNV-L835-CD1-U
D		5FT, ARCHITECTURAL COVE, INTEGRAL DRIVER, DIMMABLE	LED 7500LM 75W 3500° K	UNIV	COOPER iO LED COVIO #LM-15L-935-120-ID-UNIV-S-SM-STD-50F
E		CHANDELIER	LED, 80CRI 3600LM 100W 3000° K	UNIV	AS SELECTED BY OWNER
F		WALL SCONCE, OUTDOOR, UL LISTED, BLACK, UP & DOWN, MEDIUM FLOOD,	LED 1525Lm 20W 3000°K	UNIV	EATON LUMIERE LANTERRA MODEL #9004-W2-RW-LED3090-W-BK-L2-UNV
G1		WAL-PAK, FULL CUTOFF, IMPACT RESISTANT, BLACK, UL LISTED, PHOTOCONTROL	LED 1884Lm 27.2W 4000°K	UNIV	EATON LUMARK WAL-PAK MODEL #LDWP-FC-3B-ED-7040
G2		WAL-PAK, FULL CUTOFF, IMPACT RESISTANT, BLACK, UL LISTED, PHOTOCONTROL	LED 3137Lm 47W 4000°K	UNIV	EATON LUMARK WAL-PAK MODEL #LDWP-FC-6B-ED-7040
H		30" LONG, UNDERCABINET STRIP, WHITE, ROCKER SWITCH, ADJUSTABLE CCT PROVIDE CONNECTORS AS REQUIRED.	LED 1095Lm 17.5W 3000°K	120	WAC LIGHTING MODEL #BA-ACLED30-27/30WT
EM		EMERGENCY BATTERY PACK LIGHTING FIXTURE, 90 MINUTES BACKUP	LED	120/277	COOPER SURELITE #APEL
EXIT		THERMOPLASTIC, LED TYPE EXIT LUMINAIRE. WHITE HOUSING, RED "EXIT" ON FACE UNIVERSAL MOUNT. NI-CAD EM BATTERY	LED	120/277	COOPER SURELITE #APX7
EM/EX		COMBO EXIT AND EMERGENCY LIGHT. THERMOPLASTIC, LED TYPE EXIT LUMINAIRE. WHITE HOUSING, RED "EXIT" ON FACE UNIVERSAL MOUNT, NI-CAD BATTERY. HIGH POWER TO RUN 2 LED REMOTE HEADS.	LED 3.8W	120/277	COOPER SURELITE MODEL #APCH7
EMR		POWERED FROM EM/EX FIXTURE, BLACK. UL LISTED FOR WET LOCATIONS.	LED 1W, 3.6V	-	COOPER SURELITE MODEL #APWR2

- NOTES:
1. PROVIDE FIXTURES COMPLETE WITH MOUNTING KITS.
  2. PROVIDE APPROVED FIXTURES HAVING SIMILAR PERFORMANCE.
  3. CONFIRM FINISHES AND MOUNTING HEIGHTS FOR ALL DECORATIVE PENDANTS.

LIGHTING SYMBOLS

- SINGLE POLE 120V WALL SWITCH, WHITE
- SINGLE POLE 120V 3-WAY WALL SWITCH, WHITE
- SINGLE POLE LOW VOLTAGE 3-WAY WALL SWITCH, WHITE
- WATTSTOPPER PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR #PW-100-WH
- WATTSTOPPER DUAL TECHNOLOGY 0-10V DIMMING WALL SWITCH WITH VACANCY SENSOR #DW-311-WH
- WATTSTOPPER LOW VOLTAGE SWITCH #LVS-W-101-WH
- WATTSTOPPER 'X' 3-WAY OR 4-WAY LOW VOLTAGE SWITCH #LVS-W-101-WH. 1/2" INDICATES FIXTURES TO CONTROL. PROVIDE MULTIPLE SWITCHES IN 2-GANG BOX.
- WATTSTOPPER LOW VOLTAGE DUAL TECHNOLOGY CEILING VACANCY SENSOR #DT-305
- WATTSTOPPER UNIVERSAL VOLTAGE POWER PACK #BZ-150
- WATTSTOPPER LOW VOLTAGE DAYLIGHT SENSOR, CEILING MOUNTED #LMLS-500
- WATTSTOPPER UNIVERSAL VOLTAGE ROOM CONTROLLER #LMRC-213



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DESIGNER:

REVISIONS:

DATE: FEBRUARY 13, 2023

by designs to build on client NAME: TOWN OF PENDELTON

residential church design PROJECT LOCATION: CAMPBELL BLVD PENDELTON, NEW YORK

contents on sheet: ELECTRICAL - LIGHTING

PROJECT TITLE: PENDELTON COMMUNITY CENTER

DRAWING NUMBER:

E-3

21-049

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REVISIONS:

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by designs to build on client name: TOWN OF PENDLETON  
PROJECT LOCATION: CAMPBELL BLVD  
PENDLETON, NEW YORK  
PROJECT TITLE: PENDLETON COMMUNITY CENTER  
CONTENTS ON SHEET: ELECTRICAL – FIRE ALARM

residential church design  
commercial  
PROJECT LOCATION: CAMPBELL BLVD  
PENDLETON, NEW YORK  
PROJECT TITLE: PENDLETON COMMUNITY CENTER  
CONTENTS ON SHEET: ELECTRICAL – FIRE ALARM

DRAWING NUMBER:

E-4

21-049

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GENERAL NOTES:

1. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. PROVIDE SHOP DRAWINGS, BATTERY CALCULATIONS, PANEL AND DEVICE SPEC SHEETS, AND INSTALLER QUALIFICATIONS FOR ENGINEERING AND BUILDING DEPARTMENT APPROVALS.
2. ALL FIRE ALARM WIRING SHALL BE RUN IN EMT CONDUIT EXCEPT WHERE CONCEALED WITHIN CONSTRUCTION.
3. SEAL ALL WALL PENETRATIONS WITH UL LISTED FIRE RATED CAULKING.

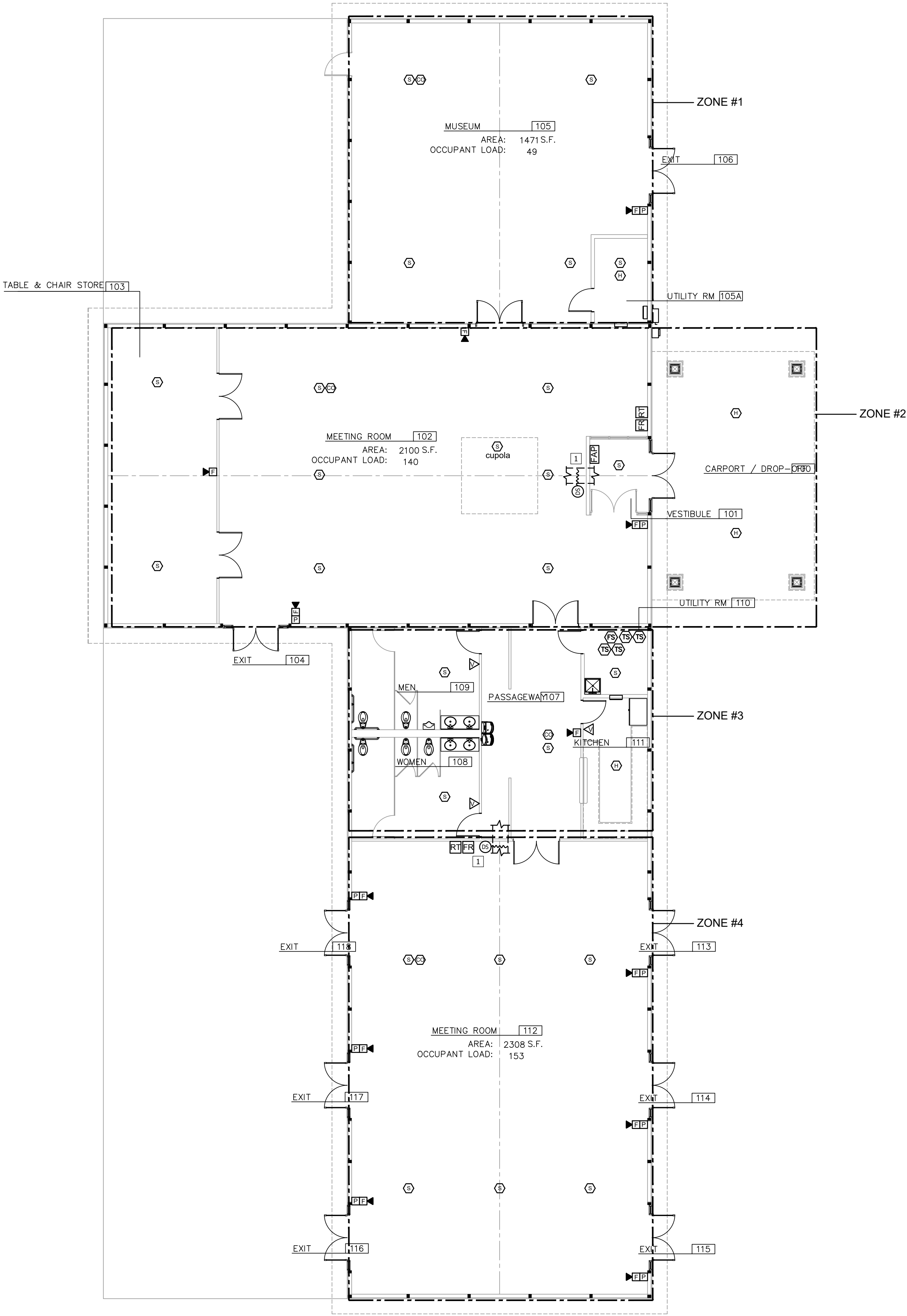
DRAWING NOTES

1. PROVIDE ALL WIRING FOR DUCT SMOKE DETECTION, FAN SHUT DOWN, AND REMOTE TEST STATION.

FIRE DETECTION AND NOTIFICATION

- FAP FIRE ALARM PANEL WITH STANDBY BATTERY BACKUP. ADDRESSABLE NFPA72 COMPLIANT W/ LOCAL LCD SCREEN AND REMOTE MONITORING CAPABILITIES.
- S ADDRESSABLE SMOKE DETECTOR.
- H ADDRESSABLE HEAT DETECTOR.
- CS ADDRESSABLE CARBON MONOXIDE DETECTOR.
- P ADDRESSABLE MANUAL PULL STATION.
- V ADDRESSABLE VISUAL LED STROBE.
- FA ADDRESSABLE COMBINATION VISUAL STROBE AND AUDIO SIGNALING.
- DS ADDRESSABLE DUCT SMOKE DETECTOR.
- RT REMOTE TEST STATION.
- FR FAN SHUTDOWN RELAY.
- FS ADDRESSABLE FLOW SWITCH.
- TS ADDRESSABLE TAMPER SWITCH.

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ELECTRICAL SPECIFICATIONS

1. GENERAL

- A. ALL ELECTRICAL WORK IS SUBJECT TO THE GENERAL REQUIREMENTS OF THE CONTRACT.
2. LAWS, CODES, PERMITS & INSPECTIONS
- A. ALL WORK SHALL BE PERFORMED IN COMPLIANCE W/ ALL APPLICABLE FEDERAL, STATE & LOCAL CODES & ORDINANCES, AS WELL AS THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE INCLUDING SUBSEQUENT AMENDMENTS.
- B. AT COMPLETION OF WORK, THE ELECTRICAL CONTRACTOR SHALL DELIVER TO THE OWNER A CERTIFICATE OF INSPECTION & ACCEPTANCE OF THE WORK BY THE LOCAL INSPECTION AUTHORITY.
3. GUARANTEE
- A. THE CONTRACTOR SHALL GIVE A WRITTEN GUARANTEE UPON FINAL ACCEPTANCE OF THE WORK AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, OR OPERATION THAT MAY APPEAR WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY THE OWNER.

4. EQUIPMENT & MATERIALS

- A. ALL EQUIPMENT & MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE SPECIFIED), LISTED BY THE UNDERWRITERS LABORATORIES, & SHALL BE OF THE SAME MAKE WHERE USED FOR SIMILAR PURPOSES.
5. TESTS & INSPECTIONS
- A. THE ENTIRE INSTALLATION SHALL BE TESTED & VERIFIED TO BE FREE FROM SHORT CIRCUITS, IMPROPER GROUNDS, & OPEN CIRCUITS.
- B. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CONDUCT A TWO (2) HOUR TEST W/ ALL ELECTRICAL UTILIZATION EQUIPMENT ENERGIZED. DURING THIS PERIOD A CLOSE WATCH SHALL BE KEPT ON ALL PANELS & EQUIPMENT TO LOCATE ANY DEFECTIVE APPARATUS OR WORKMANSHIP. PARTICULAR ATTENTION SHALL BE PAID TO THE LOAD BALANCE ON VARIOUS PANELS & FEEDERS. WIRING DEVICES & APPLIANCES FOUND TO BE FUNCTIONING IMPROPERLY SHALL BE PROMPTLY REPLACED AT THE CONTRACTOR'S EXPENSE. ANY REQUIRED BALANCING OF CIRCUITS THAT BECOME APPARENT SHALL BE CARRIED OUT IMMEDIATELY.
- C. THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF THE START OF THE TEST SO THAT HE OR HIS REPRESENTATIVE CAN PLAN TO BE PRESENT DURING THE TESTING PERIOD.

6. MARKING & LABELING

- A. PROVIDE ENGRAVED NAMEPLATES FOR ALL DISCONNECTS, STARTERS, PANELBOARDS, TIMERS, CABINETS, ENCLOSURES, ETC. NAMEPLATES SHALL IDENTIFY THE ASSOCIATED EQUIPMENT BEING SERVED. THE NAMEPLATES SHALL BE PLASTIC LAMINATE W/ 3/16" BLACK ENGRAVED LETTERS ON A WHITE BACKGROUND, ATTACHED USING BOLTS, NUTS, & WASHERS.
- B. MAKE CERTAIN THAT ALL CIRCUIT BREAKERS IN ALL PANEL BOARDS ARE IDENTIFIED BY ROOM NUMBER &/OR NAME, EQUIPMENT SERVED, OR OTHER APPROPRIATE DESIGNATION. PANELS SHALL BE PROVIDED W/ DOOR MOUNTED, TYPE WRITTEN DIRECTORIES UNDER CLEAR PLASTIC; UPDATE EX. PANEL BOARD DIRECTORIES.

7. INSTRUCTION

- A. THOROUGHLY INSTRUCT THE OWNER'S REPRESENTIVE IN THE PROPER OPERATIONS OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
8. FINAL CLEANING
- A. AFTER TESTS HAVE BEEN MADE & THE INSTALLATION HAS BEEN FOUND SATISFACTORY BY THE ENGINEER, THOROUGHLY CLEAN THE ENTIRE INSTALLATION, BOTH EXPOSED SURFACES & INTERIORS. REMOVE ALL DEBRIS CAUSED BY THE WORK UNDER THIS CONTRACT FROM ALL SPACES INSIDE & OUTSIDE THE BUILDING.

9. CONDUIT & RACEWAYS

- A. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING W/ SET SCREW FITTINGS (INTERIOR) OR PVC SCHEDULE 80 (EXTERIOR). EMT SHALL BE DELIVERED TO THE JOB SITE IN TEN-FOOT LENGTHS & SHALL BEAR THE UL LABEL & MANUFACTURER'S NAME OR TRADEMARK. MINIMUM SIZE: 1/2 INCH TRADE SIZE.
- B. THE ELECTRICAL RACEWAY SYSTEM SHALL BE INDEPENDENTLY ATTACHED OR SUPPORTED FROM THE BUILDING STRUCTURE & SHALL RUN PARALLEL W/ OR PERPENDICULAR TO THE STRUCTURAL MEMBERS.
- C. SUPPORTS & ATTACHMENTS PROVIDED SHALL BE SPECIFICALLY DESIGNED FOR THE INSTALLATION. PERFORATED HANGERS OR WIRE TIE SUPPORTS ARE NOT ACCEPTABLE.
- D. ALL RACEWAYS PASSING THROUGH A RATED FIRE SEPARATION SHALL HAVE A UL LISTED FIRE RATED INSTALLATION EQUAL TO THAT RATING. INSTALL WATER TIGHT SEAL FOR CONDUITS WHICH PENETRATE EXTERIOR WALLS.
- E. CONDUIT SHALL BE INSTALLED IN ORDER THAT A CONTINUOUS GROUNDING PATH IS ESTABLISHED THROUGHOUT THE ENTIRE RUN. PROVIDE A SEPERATE GREEN GROUNDING EQUIPMENT CONDUCTOR IN EACH CONDUIT.

10. CONDUCTORS

- A. ALL WIRE & CABLE SHALL BE NEW WITHIN ONE (1) YEAR OF MANUFACTURE WHEN DELIVERED TO THE JOB SITE & BEAR THE UL LABEL, INSULATION TYPE, VOLTAGE RATING, & MANUFACTURER'S NAME AT REGULAR INTERVALS ON THE INSULATION JACKET.
- B. ALL SINGLE CONDUCTOR WIRING IN RACEWAYS SHALL BE STRANDED COPPER, 600 VOLT RATED, TYPE THHN/THWN-2, 90°C. MINIMUM SIZE: #12 AWG.
- C. ALL MULTI-CONDUCTOR CABLE FOR BRANCH CIRCUIT WIRING SHALL BE TYPE "AC" ARMORED CABLE (COPPER) W/ CONTINUOUS INSULATED EQUIPMENT GROUNDING CONDUCTOR. MINIMUM SIZE: #12 AWG COMPLYING WITH NEC 250.118.
- D. ALL CONTROL CABLE RUN EXPOSED IN THE CEILING SPACE FOR COMMUNICATIONS, TELEPHONE, DATA, ETC, SHALL BE TEFLON JACKETED & BE UL LISTED FOR USE IN AN AIR HANDLING PLENUM.
- E. JOINTS, TAPS & SPLICES OF WIRE OF SIZE #10 & SMALLER SHALL BE MADE W/ "SCOTCHLOK" TYPE SPRING CONNECTORS; SIZES #8 & LARGER SHALL BE MADE W/ COMPRESSION CONNECTORS.

11. OUTLETS & WIRING DEVICES

- A. BOXES & FITTINGS FOR CONCEALED WORK SHALL BE PRESSED SHEET STEEL, CADMIUM COATED, OR ZINC GALVANIZED AS MANUFACTURED BY RACO, STEEL CITY, UNIVERSAL, OR EQUAL. IN CONCEALED WORK, INSTALL ALL BOXES SO THAT THE FRONT EDGES DO NOT PROTRUDE BEYOND THE FINISHED WALL SURFACE. OUTLET BOXES SHALL BE 4" SQUARE OR OCTAGONAL & NOT LESS THAN 1-1/2" DEEP. IN ALL CASES THEY SHALL BE OF A SIZE & SHAPE ESPECIALLY ADAPTED TO THE PARTICULAR USE TO WHICH THEY ARE PUT. WHERE SPACE LIMITATIONS DICTATE, 2" x 4" BOXES MAYBE USED, IF PROPER VOLUME AS DICTATED BY THE NEC.
- B. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE 20A, NEMA 5-20R, 120V, SPECIFICATION GRADE, W/ WHITE PLASTIC COVER PLATE. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL BE UL 914 LISTED & PROVIDED IN LOCATIONS AS INDICATED. COLOR SHALL BE WHITE PLASTIC.
- C. RECEPTACLES IN PATIENT ROOMS SHALL BE LISTED FOR HOSPITAL GRADE, SINGLE PHASE, 20 AMPERE, 120 VOLTS, 2-POLE, 3-WIRE, NEMA 5-20R.
- D. GROUND FAULT CURRENT INTERRUPTER (GFCI) DUPLEX RECEPTACLES IN PATIENT ROOMS SHALL BE AN INTEGRAL UNIT, HOSPITAL-GRADE, SUITABLE FOR MOUNTING IN A STANDARD OUTLET BOX, WITH END-OF-LIFE INDICATION AND PROVISIONS TO ISOLATE THE FACE DUE TO IMPROPER WIRING. GFCI RECEPTACLES SHALL BE SELF-TEST RECEPTACLES IN ACCORDANCE WITH UL 943.
- E. SWITCHES SHALL BE LINE VOLTAGE SINGLE POLE, OR THREE-WAY AS INDICATED, 20A, 120V-277V, SPECIFICATION GRADE, QUITE TYPE, W/ WHITE PLASTIC COVER.
- F. MANUFACTURES:
- (1) HUBBELL
- (2) LEVITON
- (3) BRYANT
- (4) PASS & SEYMOUR
- (5) COOPER WIRING SYSTEM

12. LIGHT FIXTURE REQUIREMENTS

- A. ALL LIGHT FIXTURES ARE TO BE PROVIDED COMPLETED W/ ALL NECESSARY ACCESSORIES, SUPPORTS & FOR PROPER INSTALLATION. CATALOG NUMBERS SHOWN ARE BASIC FIXTURE TYPES.
13. GROUNDING
- A. ALL EQUIPMENT GROUNDING CONNECTIONS SHALL BE COMPLETELY CONNECTED PRIOR TO ENERGIZING EQUIPMENT, THE ENTIRE RACEWAY SYSTEM SHALL COMPOSE A CONTINUOUS GROUND FROM THE INITIAL GROUND CONNECTION TO THE FURTHEST OUTLET.
- B. ALL RECEPTACLES SHALL HAVE A SEPARATE GROUNDING CONDUCTOR INSTALLED FROM THE GROUND TERMINAL ON THE DEVICE TO THE METALLIC BOX.

14. PANELBOARDS

- A. AS REQUIRED NEW CIRCUIT BREAKERS SHALL BE QUICK MAKE, QUICK-BREAK, W/ THERMAL MAGNETIC TRIP, CIRCUIT BREAKERS FOR HVAC EQUIPMENT LOADS SHALL BE SPECIFICALLY RATED FOR SUCH LOADS (HACR TYPE). MULTI-POLE BREAKERS SHALL HAVE A COMMON INTERNAL TRIP, UL LISTED AS MULTI-POLE UNITS. HANDLE TIES ARE NOT PERMITTED.

15. SHOP DRAWINGS & MANUFACTURER DATA

- A. THE CONTRACTOR SHALL SUBMIT W/ SUCH PROMPTNESS AS TO CAUSE NO DELAYS IN HIS WORK OR THAT OF OTHER CONTRACTORS. PROVIDE ONE (1) ELECTRONIC COPY OF ALL SHOP DRAWINGS OR DESCRIPTIVE LITERATURE ON ALL EQUIPMENT TO BE SUPPLIED.
16. AS BUILT DRAWINGS
- A. AT THE COMPLETION OF THE ELECTRICAL WORK, THE CONTRACTOR RESPONSIBLE FOR THE WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE AS-BUILT DRAWINGS.
- B. THE CONTRACTOR WILL BE FURNISHED A SET OF PRINTS OF THE CONTRACT DRAWINGS FOR THE PURPOSE OF KEEPING A COMPLETE RECORD OF ALL INSTALLATION WORK. THE CONTRACTOR SHALL KEEP A COMPLETE RECORD AF ALL WORK & SHALL INDICATE DEVIATIONS FROM THE CONTRACT DRAWINGS. ALL CHANGES, REVISIONS &/OR ADDITIONS MADE IN THE INSTALLATION OF THE WORK, WHICH DIFFER FROM THAT REQUIRED BY THERE DRAWINGS, SHALL BE NOTED.

END

FIRE ALARM SYSTEM REQUIREMENTS

1. GENERAL

1.1 REFERENCES

- A. NFPA 70 – NATIONAL ELECTRICAL CODE
- B. NFPA 72 – NATIONAL FIRE CODE
- 1.2 SYSTEM DESCRIPTION
- A. PROVIDE NEW ADDRESSABLE FIRE ALARM SYSTEM. THE SYSTEM SHALL BE FURNISHED, INSTALLED, TESTED & CERTIFIED BY A LICENSED FIRE ALARM INSTALLER.
- B. FIRE ALARM SYSTEM: NFPA 72, MANUAL & AUTOMATIC LOCAL FIRE ALARM SYSTEM; PROVIDE ONE YEAR (1) WARRANTY ( FULL PARTS & LABOR).

1.3 QUALIFICATIONS

- A. MANUFACTURER: FIRE ALARM COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION W/ MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

1.4 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70, 72 & NFPA 101.
- B. FURNISH PRODUCTS LISTED & CLASSIFIED BY UL TESTING AS SUITABLE FOR FIRE ALARM SERVICE.

2. PRODUCTS

- 2.1 FIRE ALARM CONTROL PANEL (FACP)
- A. HONEYWELL FIRE-LITE MODEL #ES-200X OR EQUAL.

2.2 INITIATING DEVICES

- A. MANUAL PULL STATIONS: SEMI-FLUSH MOUNTED, AS MANUFACTURED BY FIRE ALARM MANUFACTURE W/ ADDRESSABLE MODULE. PROVIDE MANUFACTURER'S STANDARD BACKBOX.
- B. CEILING MOUNTED DETECTORS FOR SMOKE, HEAT, CARBON MONZIDE: ADDRESSABLE DETECTOR, SUITABLE FOR MOUNTING ON 4 INCH OUTLET BOX.

2.2 SIGNALING APPLIANCES

- A. ALARM HORN/STROBE UNIT: HORN SHALL BE NFPA 72 SURFACE TYPE FIRE ALARM HORN. SOUND RATING: 90 DB AT 10 FEET. PROVIDE INTEGRAL STROBE LAMP & FLASHER W/ RED LETTERED "FIRE" ON WHITE LENS.
- B. ALARM STROBE-ONLY UNIT: PROVIDE INTEGRAL STROBE LAMP & FLASHER W/ RED LETTERED "FIRE" ON WHITE LENS.

2.3 FIRE ALARM WIRE & CABLE

- A. FIRE ALARM POWER BRANCH CIRCUITS: BUILDING WIRE AS SPECIFIED.
- B. INITIATING DEVICE & INDICATING APPLIANCE CIRCUITS: ALL FIRE ALARM SIGNAL WIRING IN NEW CONSTRUCTION SHALL BE INSTALLED IN CONDUIT. WIRING SHALL BE (2) #16 COPPER, TWISTED/SHIELDED SIGNAL CABLE UL LISTED AS SUITABLE FOR USE IN FIRE ALARM SYSTEM INSTALLATIONS.

1. SHOP DRAWINGS & MANUFACTURER DATA

- A. THE CONTRACTOR SHALL SUBMIT ONE (1) ELECTRONIC COPY OF SHOP DRAWINGS, PRODUCT SPEC SHEETS, BATTERY CALCULATIONS, INSTALLER QUALIFICATIONS, AND PROGRAMMING.

4. EXECUTION

4.1 INSTALLATION

- D. INSTALL PRODUCTS IN ACCORDANCE W/ FIRE ALARM MANUFACTURER'S INSTRUCTIONS.
- E. INSTALL MANUAL STATION W/ OPERATING HANDLE 3 FEET 8 INCHES ABOVE FLOOR OR AS REQUIRED BY ADA CODE. INSTALL AUDIBLE & VISUAL SIGNAL DEVICES 6 FT-10 IN ABOVE FLOOR, BUT NOT LESS THAN 6" BELOW CEILING..
- F. INSTALL ALL POWER & SIGNAL WIRING IN CONDUIT.
- G. MOUNT END-OF-LINE DEVICE BOX WITHIN LAST DEVICE OR SEPARATE BOX ADJACENT TO LAST DEVICE ON CIRCUIT.

5. PROJECT CLOSEOUT

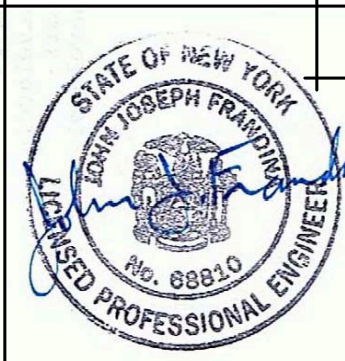
5.1 AS BUILT DRAWINGS

- A. AT THE COMPLETION OF THE FIRE ALARM WORK, THE CONTRACTOR RESPONSIBLE FOR THE WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE AS-BUILT DRAWINGS.

5.2 OWNER TRAINING, DEMONSTRATION, AND CERTIFICATION

- A. PERFORM SYSTEM TESTING AND CERTIFICATION.
- B. PROVIDE MINIMUM OF 2HRS TRAINING OF OWNER'S PERSONNEL AND REPRESENTATIVE OF LOCAL FIRE DEPARTMENT ON SYSTEM FEATURES, ALARMS, AND MONITORING.

END



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