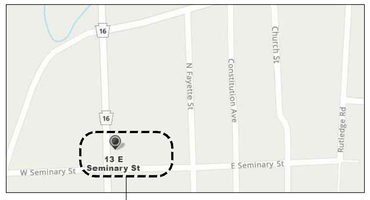

13 EAST SEMINARY STREET
MERCERSBURG, PENNSYLVANIA 17236

13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

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architecture + engineering
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Tel: 717 263 0101 Fax: 717 263 7380
www.newcomerassociates.com

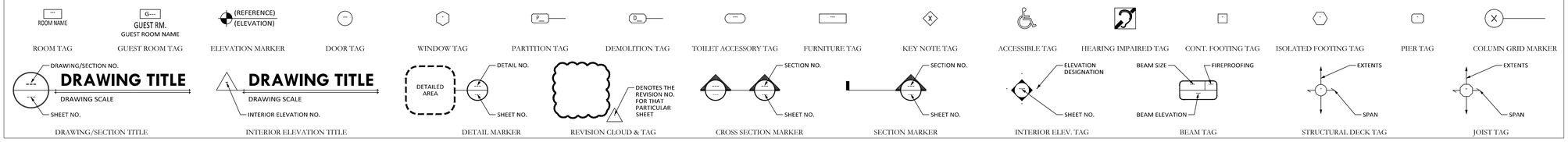
Drawing Index:

Materials Legend:

TYP. FOR ARCHITECTURAL AND STRUCTURAL DRAWINGS

Drawing Symbols Legend:

TYP. FOR ARCHITECTURAL AND STRUCTURAL DRAWINGS



Abbreviations:

ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION
ABV.	ABOVE	BTM.	BOTTOM	DIA.	DIAMETER	FD	FLOOR DRAIN	H.C.	HOLLOW CORE	LLV	LONG LEG VERTICAL	O.C.E.W.	ON CENTER EACH WAY	PTD.	PAINTED	SHT.	SHEET	T.S.	TOP OF STEEL
ACC.	ACCESSIBLE	CAB.	CABINET	DN.	DOWN	FDN.	FOUNDATION	HDWR.	HARDWARE	LOC.	LOCATED/LOCATIONS	O.D.	OUTSIDE DIAMETER	PTN.	PARTITION	SIM.	SIMILAR	TS	TUBE STEEL
ADA	AMERICANS WITH DISABILITIES ACT	CANT.	CANTILEVER	DS	DOWNSPOUT	FE	FIRE EXTINGUISHER	H.M.	HOLLOW METAL	LONG.	LONGITUDE	O.F.	OVERFLOW	QT.	QUARRY TILE	SL.	SLOPE	TV	TELEVISION
		C.I.P.	CAST IN PLACE	DTL.	DETAIL	F.F.	FOIL FACED	H.M.L.	HOLLOW METAL W/	L.V.L.	LAMINATED VENEER LUMBER	OFRD	OVERFLOW ROOF DRAIN	R.	RISER	SPECS.	SPECIFICATIONS	TYP.	TYPICAL
ADJ.	ADJUSTABLE/ADJACENT	℄	CENTER LINE	D/W	DISHWASHER	FIN.	FINISHED/FINISH		INSULATED CORE	MAS.	MASONRY	O.H.	OVERHANG/OVERHEAD	RD	ROOF DRAIN	S.S.	STAINLESS STEEL	U/C	UNDER COUNTER
A.F.F.	ABOVE FINISHED FLOOR	CLG.	CEILING	DWG.	DRAWING	FIN. FLR.	FINISH FLOOR	HORIZ.	HORIZONTAL	MAX.	MAXIMUM	OPNG.	OPENING	REC.	RECOMMENDED	ST.	STAINED	U.L.	UNDERWRITERS LABORATORY
ALT.	ALTERNATE	CLKG.	CAULKING	EA.	EACH	FLR.	FLOOR	HR.	HOUR	MBL.	MARBLE	OPP.	OPPOSITE	REF.	REFRIGERATOR	ST&V	STAINED AND VARNISHED	U.N.O.	UNLESS NOTED OTHERWISE
ALUM.	ALUMINUM	CLO.	CLOSET	E.C.	ELECTRICAL CONTRACTOR	F.O.	FACE OF	H.S.S.	HOLLOW SHAPED SECTIONS	M.C.	MECHANICAL CONTRACTOR	O.S.	OUTSIDE	REN.	RENOVATE	STC	SOUND TRANSFER	VCT	VINYL COMPOSITION TILE
ANN.	ANNEALED	CLR.	CLEAR	EIFS	EXTERIOR INSULATION AND	F.O.F.	FACE OF FRAMING/FURRING	HT.	HEIGHT	MECH.	MECHANICAL	O.S.F.O.	OUTSIDE FACE OF	REQ'D	REQUIRED		COEFFICIENT	VERT.	VERTICAL
ANOD.	ANODIZED	CMU	CONCRETE MASONRY UNIT		FINISH SYSTEM	F.O.M.	FACE OF MASONRY	HVAC	HEATING, VENTILATING AND	MFR.	MANUFACTURER	PAF	POWDER ACTUATED	REV.	REVISE/REVISION	STL.	STEEL	V.I.F.	VERIFY IN FIELD
APPROX.	APPROXIMATE	CO.	COMPANY	ELEC.	ELECTRICAL	FRG.	FURRING		AIR CONDITIONING	MICRO.	MICROWAVE		FASTENERS	RFG.	ROOFING	STOR.	STORAGE	VWC	VINYL WALL COVERING
ARCH.	ARCHITECT	COL.	COLUMN	ELEV.	ELEVATION/ELEVATOR	FRMG.	FRAMING	H.W.	HOT WATER	MIN.	MINIMUM/MINUTE	P.C.	PLUMBING CONTRACTOR	RM.	ROOM	STRUCT.	STRUCTURAL	W.	WIDE/WIDTH
A/V	AUDIO / VISUAL	CONC.	CONCRETE	EMBED.	EMBEDMENT	FRP	FIBERGLASS REINFORCED	INFO.	INFORMATION	MIR.	MIRRORED	PEMB	PRE-ENGINEERED METAL	R.O.	ROUGH OPENING	SUSP.	SUSPENDED	W/	WITH
BC	BASE CABINET	CONN.	CONNECTION/CONNECTED	ENGR.	ENGINEER		PLASTIC PANELS	INSUL.	INSULATION	MISC.	MISCELLANEOUS		BUILDING	RTU	ROOF-TOP UNIT	SVINYL	SHEET VINYL	W/I	WITHIN
B.C.S.	BABY CHANGING STATION	CONST.	CONSTRUCTION	E.O.D.	EDGE OF DECK	FRT	FIRE RETARDANT TREATED	INT.	INTERIOR	M.O.	MASONRY OPENING	PERIM.	PERIMETER	RWC	RAIN WATER CONDUCTOR	T.B.	TOWEL BAR	W/O	WITHOUT
BD.	BOARD	CONT.	CONTINUOUS	EPDM	ETHYLENE PROPYLENE	FT.	FOOT/FEET	I.S.	INSIDE	M.R.	MOISTURE RESISTANT	P.I.P.	POURED IN PLACE	SACT	SUSPENDED ACOUSTICAL	TEMP.	TEMPERED/TEMPERATURE	W.C.	WALL CABINET
BEV.	BEVELED	COORD.	COORDINATE		DIENE MONOMER	FTG.	FOOTING	I.S.F.O.	INSIDE FACE OF	MTD.	MOUNTED	PL.	PLATE		CEILING TILE	T.F.	TOP OF FOOTING	WD.	WOOD
B.F.G.	BELOW FINISHED GRADE	CPT.	CARPET	EQ.	EQUAL	GA.	GAGE	JST.	JOIST	MTL.	METAL	PLAS. LAM.	PLASTIC LAMINATE	SB	SINK BASE CABINET	THCKND.	THICKENED	WM	WOOD MOULDING
BLDG.	BUILDING	CR.	CRUSHED	E.S.	EACH SIDE	GALV.	GALVANIZED	JT.	JOINT	N/A	NOT APPLICABLE	PLUMB.	PLUMBING	SCCT	SUSPENDED CERAMAGUARD	THK.	THICK	WR	WASTE RECEPTACLE
BLKG.	BLOCKING	C.T.	CERAMIC TILE	E.W.	EACH WAY	G.B.	GRAB BAR	K.F.	KRAFT FACED	NEC'Y	NECESSARY	PLYWD.	PLYWOOD		CEILING TILE	THR.	THRESHOLD	W.W.F.	WELDED WIRE FABRIC
BLKHD.	BULKHEAD	CTL.	CONTROL	EWC	ELECTRIC WATER COOLER	G.C.	GENERAL CONTRACTOR	K.O.	KNOCK OUT	N.I.C	NOT IN CONTRACT	PNL.	PANEL	S.C.	SOLID CORE	T.O.	TOP OF	X.X	INCHES PER FOOT
BM.	BEAM	D.	DEEP	EXIST.	EXISTING	GWB	GYPSUM WALL BOARD	LAM.	LAMINATED	NO./#	NUMBER	PREP.	PREPARATION	SCHED.	SCHEDULE	T.O.D.	TOP OF DECK	&	AND
BRG.	BEARING	d	PENNY	EXP.	EXPANSION/EXPOSED	GYP. ASSOC.	GYPSUM ASSOCIATION	LAV.	LAVATORY	NOM.	NOMINAL	P.T.	PRESSURE TREATED	S.F.	SQUARE FEET	T.O.M.	TOP OF MASONRY	@	AT
B.S.	BOTH SIDES	DBL.	DOUBLE	EXT.	EXTERIOR	GYP. BD.	GYPSUM BOARD	LBS.	POUNDS	N.T.S.	NOT TO SCALE	PTAC	PACKAGED TERMINAL AIR	SGB	SUSPENDED GYPSUM BOARD	T.O.P.	TOP OF PIER/PARAPET	Ø	DIAMETER
BSMT.	BASEMENT	DEMO.	DEMOLITION	FBRGLS.	FIBERGLASS	H.	HIGH	LLH	LONG LEG HORIZONTAL	O.C.	ON CENTER		CONDITIONING UNIT	SGL.	SINGLE	TR	TOILET ROOM	±	PLUS OR MINUS

Building Data:

BUILDING SIZES

BASEMENT	7,600 S.F.	(NON-OCCUPIED; MAINTENANCE ONLY)
FIRST FLOOR	8,650 S.F.	(SHELL ONLY)
SECOND FLOOR	8,025 S.F.	(SHELL ONLY)
THIRD FLOOR	7,450 S.F.	(SHELL ONLY)
ATTIC	7,450 S.F.	(SHELL ONLY)
TOTAL S.F.	39,175 S.F.	

APPLICABLE BUILDING CODES

2018 IBC
ADA
2009 ANSI 117.1
2018 IEBC

USE GROUP

SHELL ONLY

CONSTRUCTION TYPE

VB IBC 602.5

Job No: 2140
Drawn: S. Dobbins
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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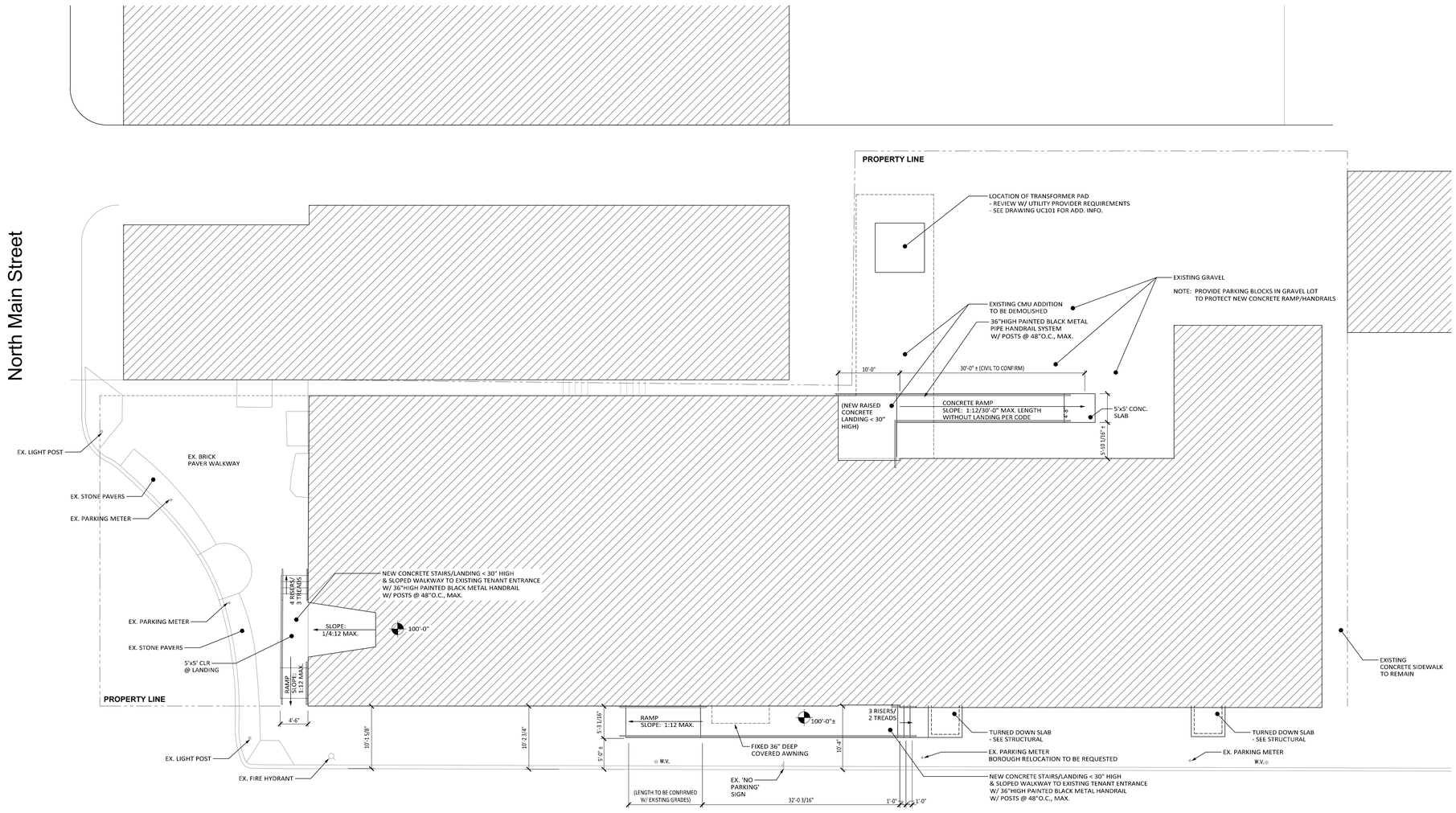
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
COVER SHEET

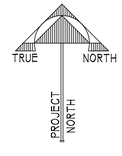
Sheet No.
000

Date: 04/13/2022



EXISTING SITE PLAN

1/8" = 1'-0" SEE NOTES ON SHEET A201



Job No: 2140
Drawn:
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

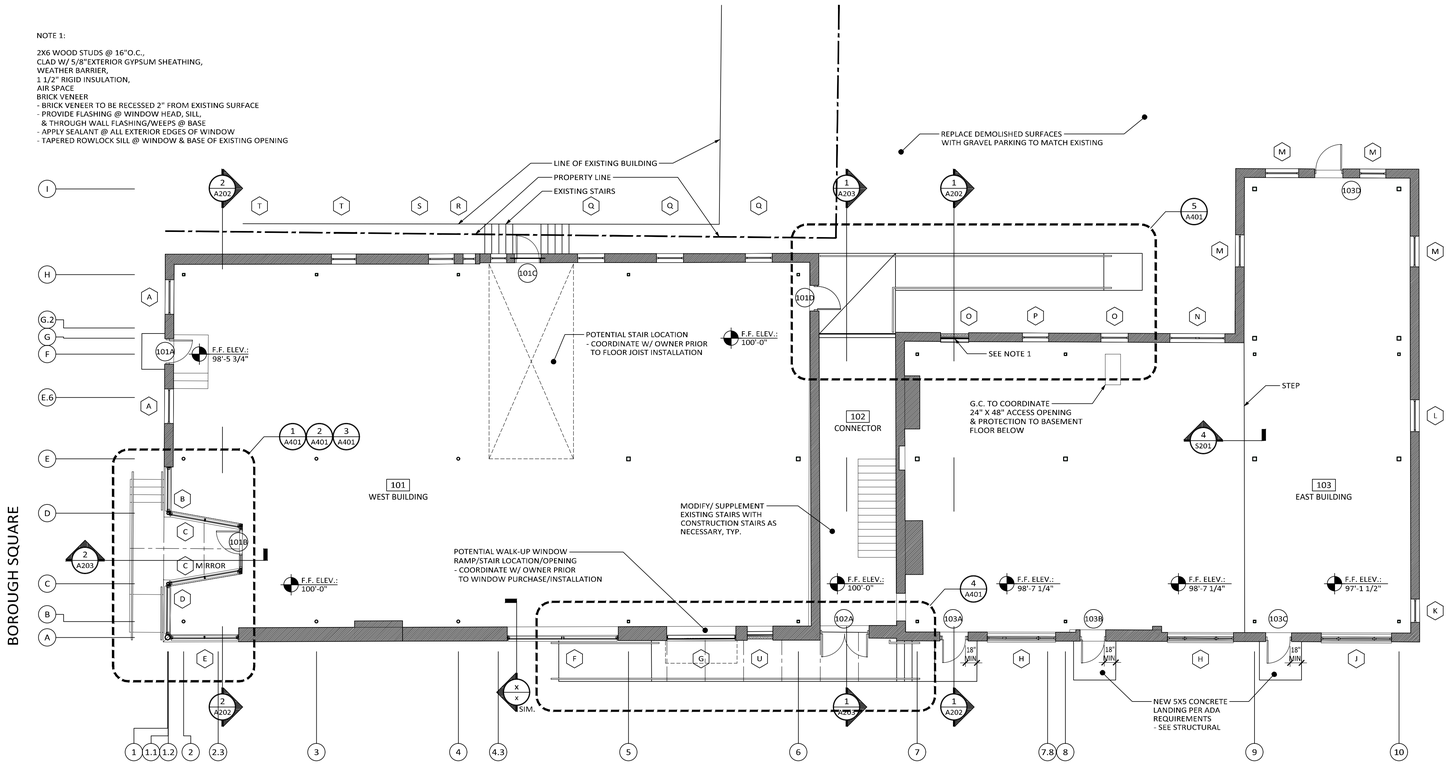
Drawing Title:
SITE PLAN
RENOVATIONS
FOR COFFEE
SHOP

Sheet No.
SITE

Date: 04/13/2022

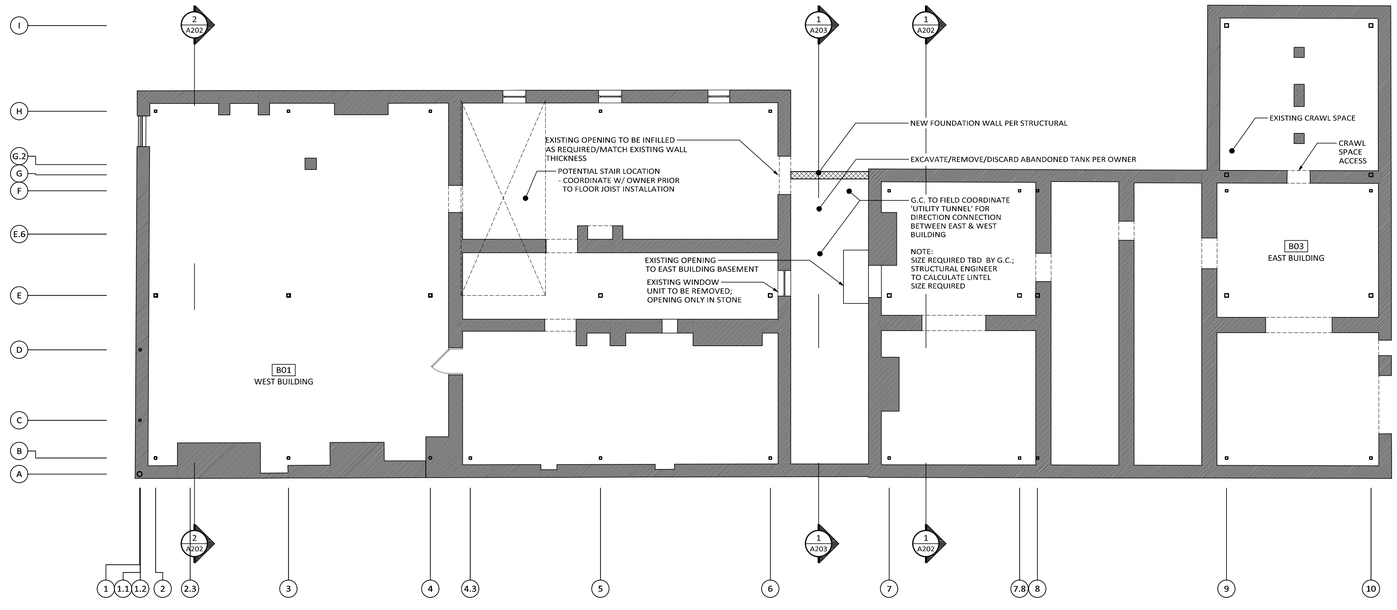
NOTE 1:

2X6 WOOD STUDS @ 16"O.C.,
CLAD W/ 5/8"EXTERIOR GYPSUM SHEATHING,
WEATHER BARRIER,
1 1/2" RIGID INSULATION,
AIR SPACE
BRICK VENEER
- BRICK VENEER TO BE RECESSED 2" FROM EXISTING SURFACE
- PROVIDE FLASHING @ WINDOW HEAD, SILL,
& THROUGH WALL FLASHING/WEEPS @ BASE
- APPLY SEALANT @ ALL EXTERIOR EDGES OF WINDOW
- TAPERED ROWLOCK SILL @ WINDOW & BASE OF EXISTING OPENING



FIRST FLOOR PLAN

1/8" = 1'-0"



BASEMENT FLOOR PLAN

1/8" = 1'-0"

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Job No: 2140
Drawn:
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
BASEMENT & FIRST FLOOR PLANS

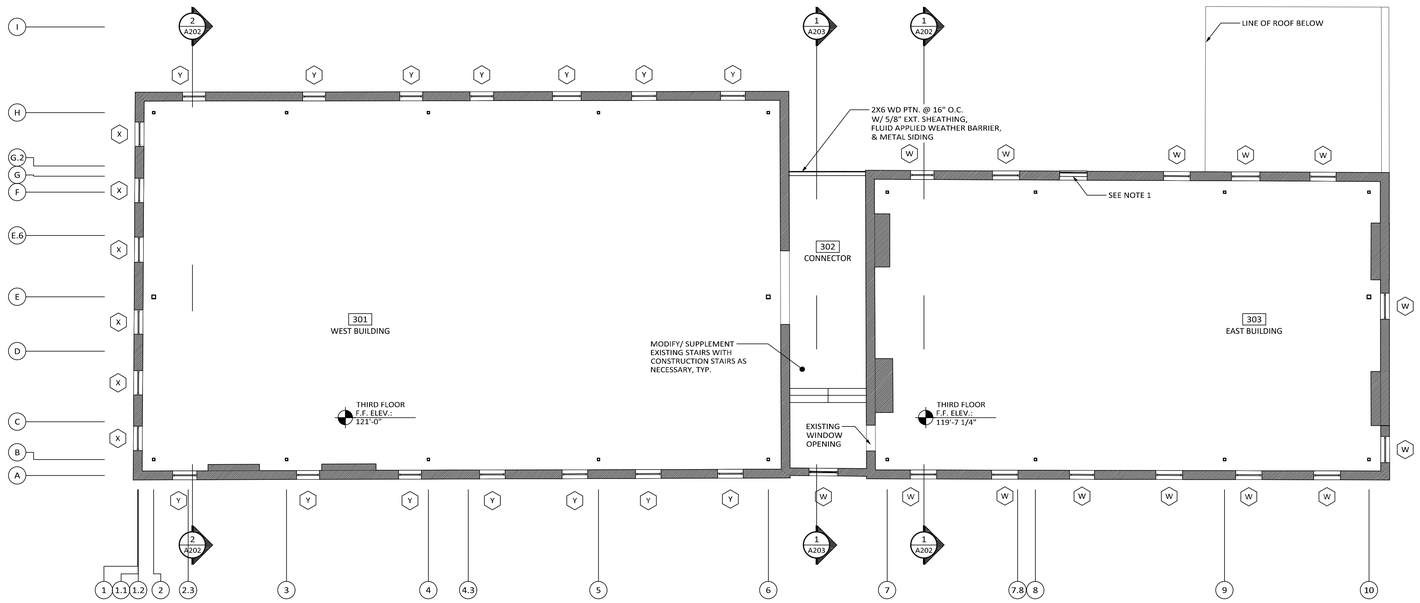
Sheet No.
A101

Date: 04/13/2022

NOTE 1:

2X6 WOOD STUDS @ 16"O.C.,
CLAD W/ 5/8"EXTERIOR GYPSUM SHEATHING,
WEATHER BARRIER,
1 1/2" RIGID INSULATION,
AIR SPACE, & NEW METAL SHUTTERS

- SHUTTERS TO BE RECESSED 2" FROM EXISTING SURFACE
- PROVIDE FLASHING @ BASE
- APPLY SEALANT @ ALL EXTERIOR EDGES OF RIGID INSULATION
- TAPERED ROWLOCK SILL @ BASE OF EXISTING OPENING



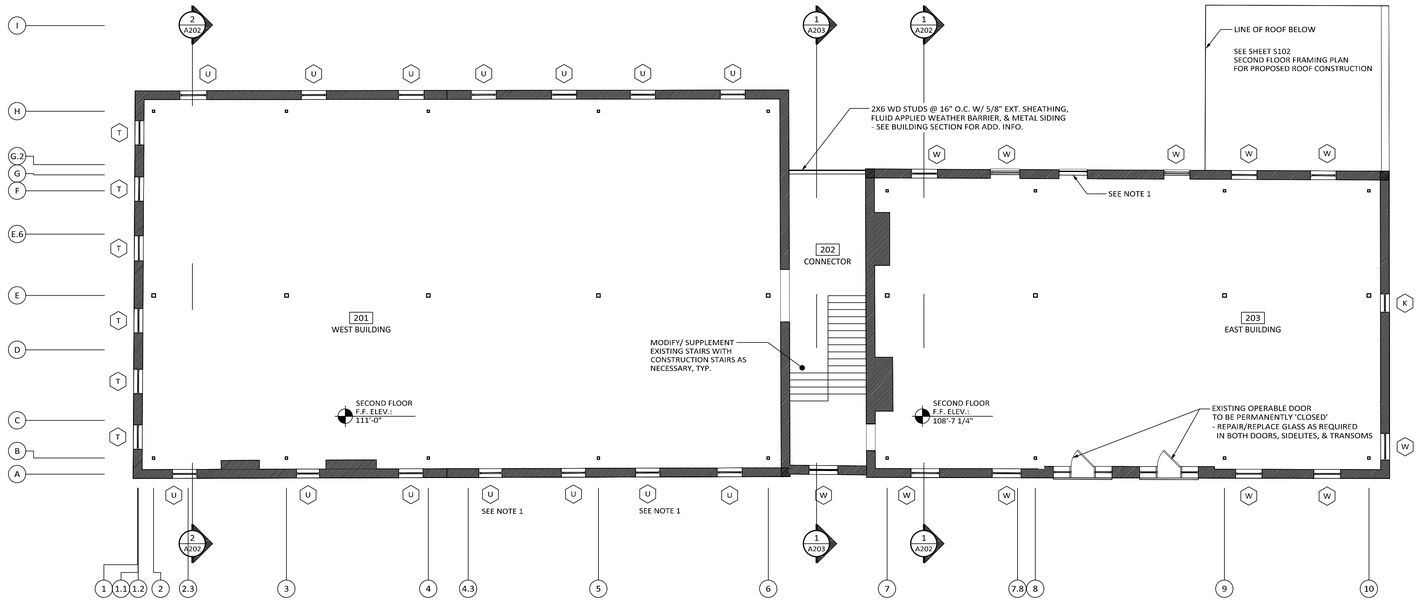
THIRD FLOOR PLAN

1/8" = 1'-0"

NOTE 1:

2X6 WOOD STUDS @ 16"O.C.,
CLAD W/ 5/8"EXTERIOR GYPSUM SHEATHING,
WEATHER BARRIER,
1 1/2" RIGID INSULATION,
AIR SPACE, & NEW METAL SHUTTERS

- SHUTTERS TO BE RECESSED 2" FROM EXISTING SURFACE
- PROVIDE FLASHING @ BASE
- APPLY SEALANT @ ALL EXTERIOR EDGES OF RIGID INSULATION
- TAPERED ROWLOCK SILL @ BASE OF EXISTING OPENING



SECOND FLOOR PLAN

1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

Job No: 2140
Drawn:
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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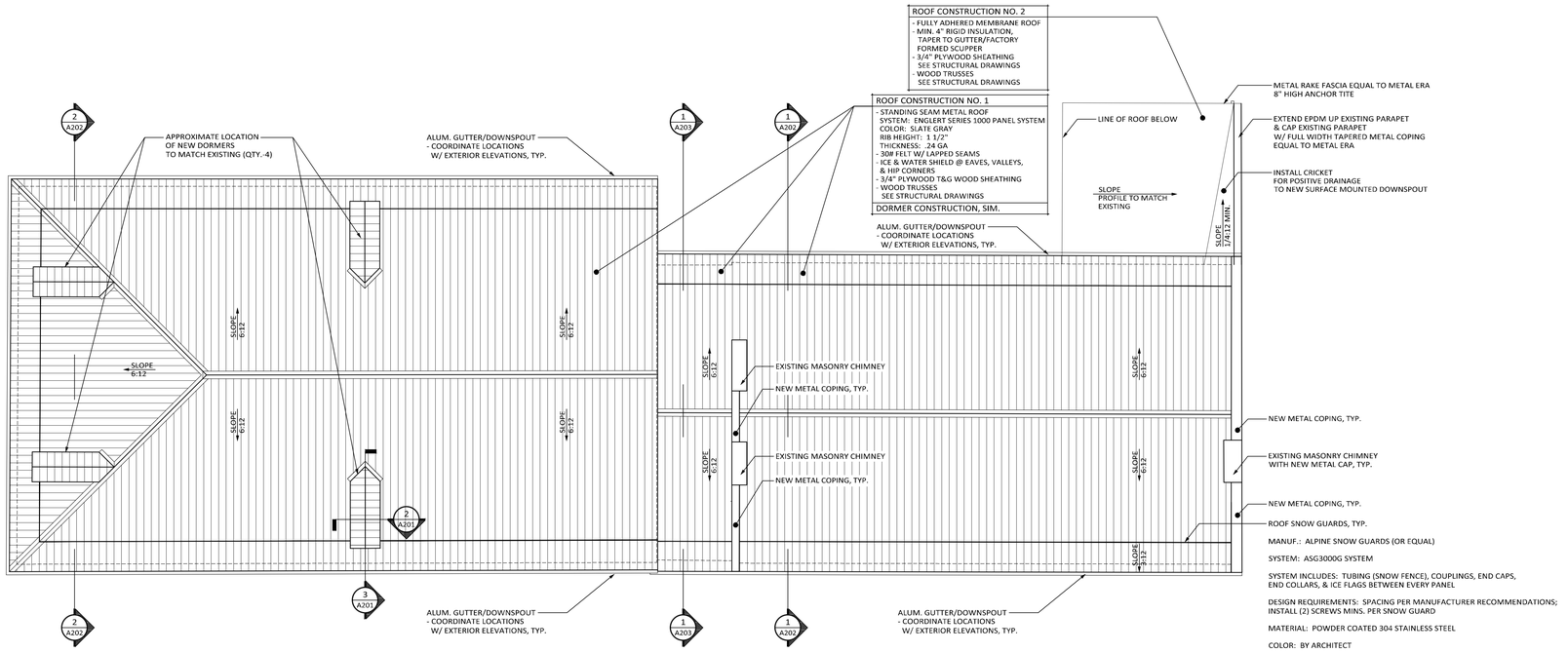
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
SECOND & THIRD FLOOR PLANS

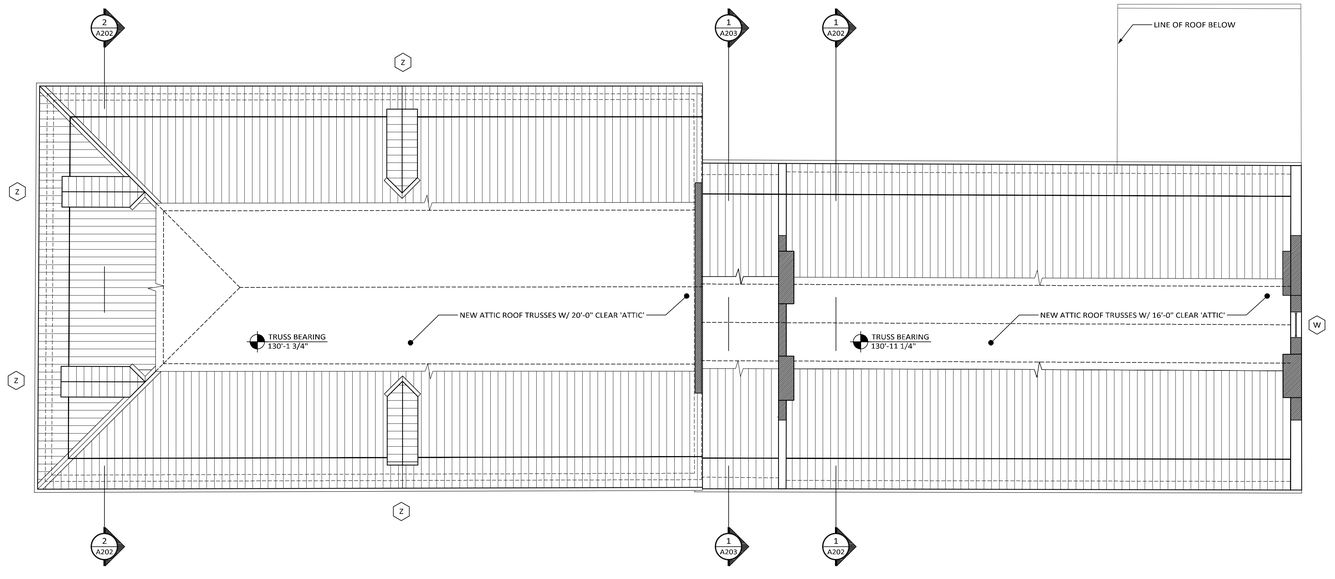
Sheet No.
A102

Date: 04/13/2022



ROOF PLAN

1/8" = 1'-0"



ATTIC PLAN

1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

Job No: 2140
Drawn:
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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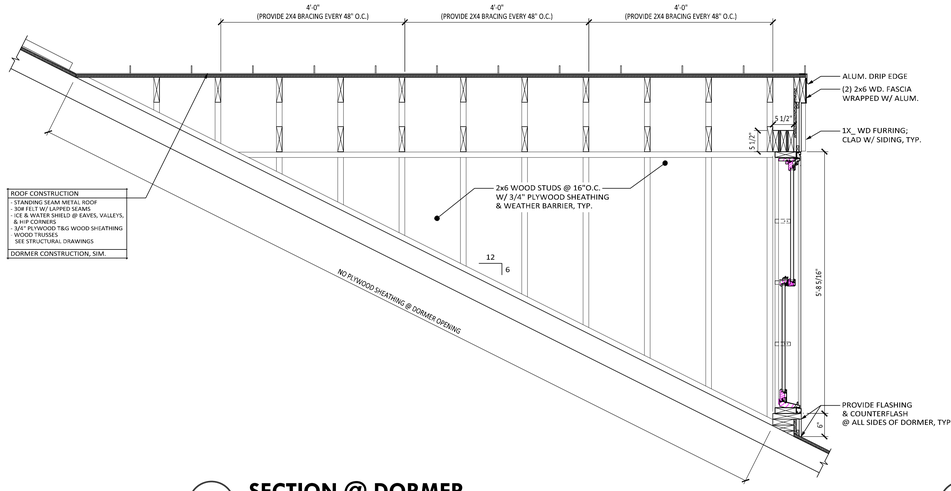
13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
ATTIC & ROOF PLANS

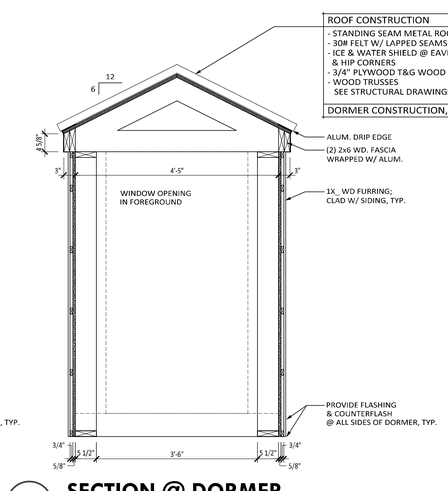
Sheet No.
A103

Date: 04/13/2022



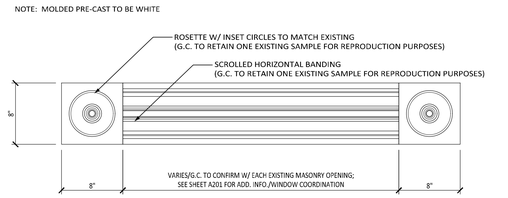
3 A201 **SECTION @ DORMER**

1 1/2" = 1'-0"



2 A201 **SECTION @ DORMER**

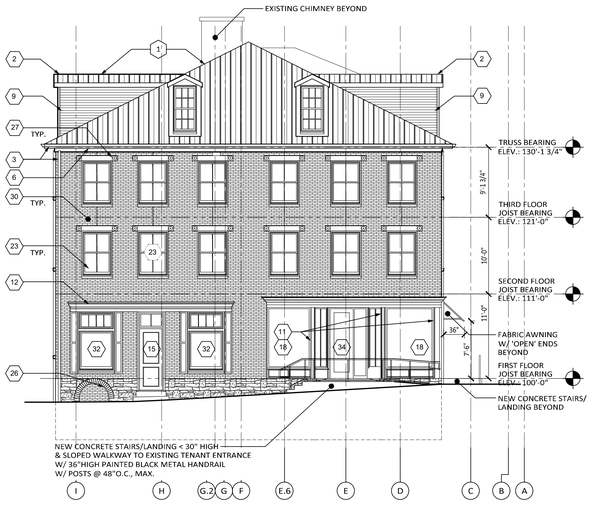
1 1/2" = 1'-0"



1 A201 **TYPICAL MOLDED PRE-CAST LINTEL W/ ROSETTE**

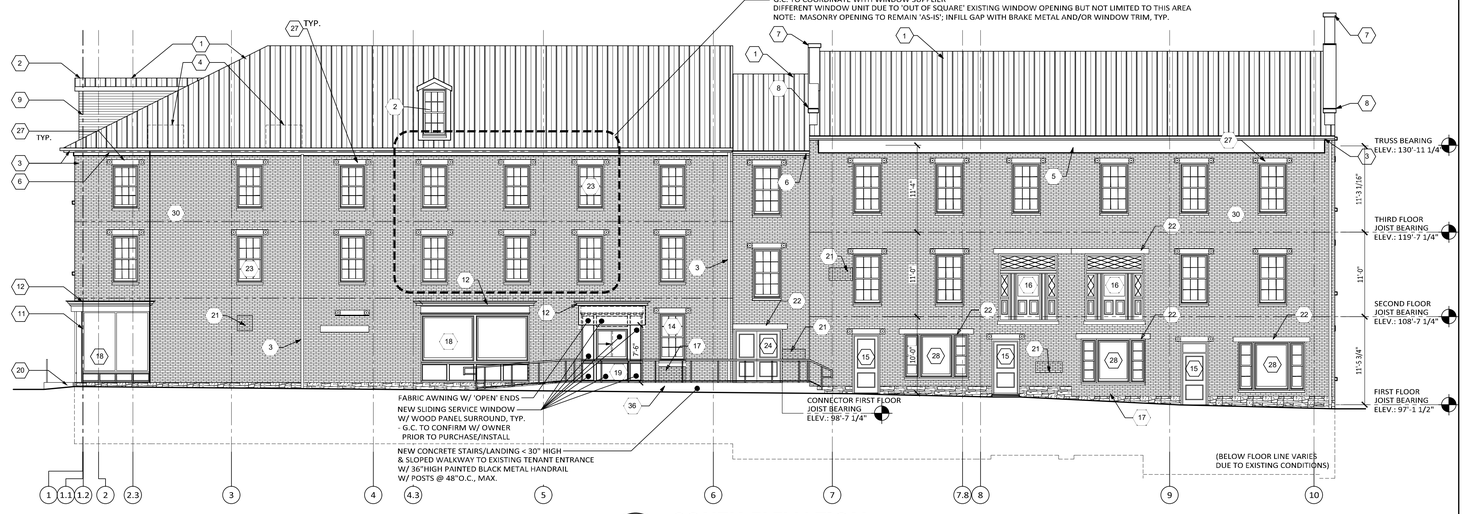
1 1/2" = 1'-0"

COORDINATE WITH SHEET A201 FOR REQUIRED LOCATIONS/QUANTITY



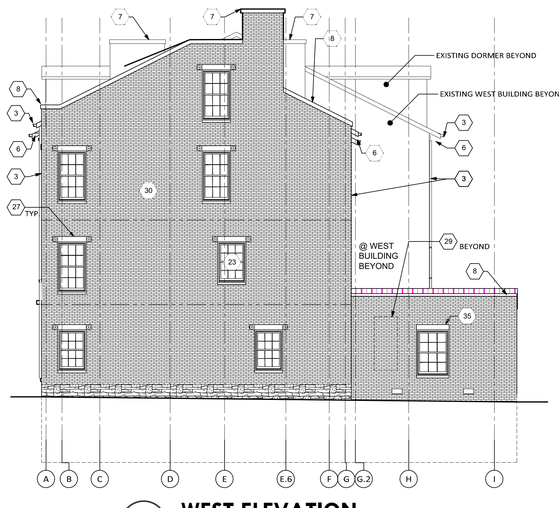
4 A201 **WEST ELEVATION**

1/8" = 1'-0"



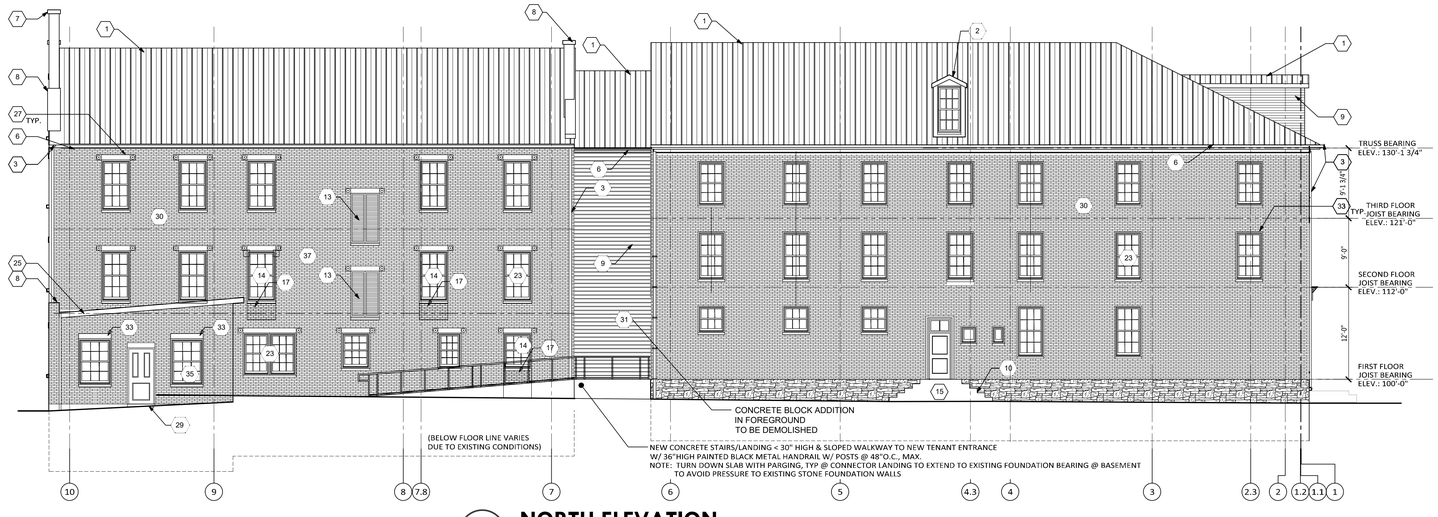
3 A201 **SOUTH ELEVATION**

1/8" = 1'-0"



2 A201 **WEST ELEVATION**

1/8" = 1'-0"



1 A201 **NORTH ELEVATION**

1/8" = 1'-0"

KEY NOTES

ALL EXISTING MASONRY OPENINGS TO BE FIELD VERIFIED, TYP.

1. NEW STANDING SEAM METAL ROOF OVER UNDERLAYMENT / EXTERIOR ROOF SHEATHING / WOOD TRUSSES.
2. RECONSTRUCT DORMERS WITH NEW ROOF FRAMING TO MATCH EXISTING; TYPICAL OF 4 LOCATIONS.
3. NEW METAL GUTTERS AND DOWNSPOUTS TO MATCH EXISTING.
4. EXISTING CHIMNEY TO BE DEMOLISHED TO BELOW ROOF.
5. EXISTING CORNICE BOARD TO BE REMOVED, CLEANED, PATCHED TO MATCH AS NECESSARY, AND REINSTALLED AND PAINTED.
6. NEW METAL SOFFIT, FASCIA, AND CORNICE DETAILS TO BE SIMILAR IN SIZE AND PROFILE TO EXISTING.
7. PROVIDE METAL CAP ON EXISTING CHIMNEY.
8. REPLACE EXISTING COPING WITH NEW METAL COPING.
9. NEW WALL FRAMING AND HORIZONTAL METAL SIDING WITH SHADOW LINE.
10. EXISTING WOOD STEPS TO REMAIN.
11. NEW PAINTED STRUCTURAL COLUMN AND CONCEALED BEAM TO SUPPORT EXISTING OPENING.
12. DETAIL OF WINDOW HEAD TO MATCH EXISTING.
13. INFILL EXISTING WINDOW OPENING WITH METAL SHUTTER. SEE PLANS FOR ADDITIONAL INFORMATION.
14. REMOVE EXISTING DOOR AND/OR WINDOW INCLUDING LINTELS AND SILLS. REPLACE WITH NEW DOUBLE-HUNG WINDOW (SEE MULLION STYLES PER INDIVIDUAL ELEVATIONS) WITH PRE-CAST CONCRETE LINTEL AND SILL TO MATCH TYPICAL WINDOWS.
15. REPLACE EXISTING DOOR IN ITS ENTIRETY, INCLUDING TRANSOMS, SIDELIGHTS, MOLDED PRE-CAST LINTELS, ROSETTES, AND SILLS TO MATCH EXISTING PROFILE. HALF-LITE ALUMINUM CLAD WOOD PANELED DOORS AND FRAMES.
16. CLEAN, PAINT, AND PERMANENTLY SEAL DOOR SHUT. REPLACE GLAZING IN EXISTING DOOR LITE OPENING, PATCH WOODWORK TO MATCH. RE-BUILD EXISTING WOOD FRAMING, TRIM, DETAILS TO MATCH EXISTING AS NECESSARY.
17. INFILL BELOW SILL WITH WOOD FRAMING ON THE INTERIOR AND BRICK/MORTAR TO MATCH EXISTING ON THE EXTERIOR. BRICK PLANE TO BE RECESSED 2", BRICK TO MATCH EXISTING CONDITIONS.
18. ALUMINUM STOREFRONT WINDOWS. BOTTOM PANELS TO CONSIST OF PAINTED WOOD/MDF PANELS.
19. EXISTING WOOD SIDING TO BE REPLACED WITH SLIDING PASS-THRU SERVICE WINDOW & WOOD PANELS BELOW, BOTH SIDES, & ABOVE.
20. EXISTING CONCRETE RAMP AND METAL RAILING TO BE DEMOLISHED.
21. REMOVE EXISTING EQUIPMENT OR FILLER PANEL. INFILL OPENING WITH BRICK TO MATCH EXISTING.
22. NEW PRE-CAST LINTEL ABOVE EXISTING OPENING WITH JOINTS AS SHOWN.
23. REPLACE EXISTING WOOD WINDOWS WITH MARVIN ULTIMATE DOUBLE HUNG G2 ALUMINUM CLAD WINDOWS AND CASING. DIVIDED WINDOW PANE PROFILE TO MATCH ELEVATIONS AS SHOWN WITH SIMULATED DIVIDED LITE GRILLS AND SPACER BARS.
24. REMOVE EXISTING DOOR IN ITS ENTIRETY, RAISE EXISTING FLOOR AND MASONRY OPENING, AND PROVIDE ALUMINUM CLAD DOUBLE DOOR TO EXTERIOR FUTURE LANDING, RAMP, AND STEPS. PATCH AREA BELOW WITH STONE VENEER TO MATCH EXISTING.
25. REPLACE EXISTING TRUSSES WITH NEW TRUSSES (PROFILE TO MATCH EXISTING), 3/4" PLYWOOD SHEATHING, & NEW ADHERED MEMBRANE. PROVIDE FLASHING TERMINATION BAR, & SEALANT AS REQUIRED FOR WATERPROOFING.
26. INFILL CRAWLSPACE ACCESS OPENING WITH 3/4" RECESSED BRICK VENEER/MORTAR TO MATCH EXISTING. REMOVE EXISTING BASEMENT ACCESS STEPS AND INSTALL NEW PAVERS TO MATCH EXISTING.
27. PRE-CAST CONCRETE LINTEL TO MATCH EXISTING WOOD LINTEL ROSETTES, TYP.
28. PROVIDE NEW ALUMINUM CLAD FIXED WINDOW WITH FLANKING DOUBLE-HUNG WINDOW AND PRE-CAST CONCRETE LINTEL.
29. REPLACE EXISTING DOOR IN ITS ENTIRETY. CLAD FRAME AND PANEL DOOR, AND SILL TO EXTERIOR FUTURE LANDING, RAMP, AND STEPS.
30. BRICK AND STONE FOUNDATION TO BE TUCKPOINTED WITH MATCHING BONDING PATTERN, MORTAR MIX, COLOR, AND JOINT TYPE TO MATCH EXISTING CONDITION, TYP.
31. EXISTING CONCRETE BLOCK BUILDING (NOT SHOWN) AT NORTH SIDE TO BE DEMOLISHED. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
32. REPLACE EXISTING WOOD WINDOWS WITH ALUMINUM CLAD FIXED WINDOWS TO MATCH EXISTING WINDOW.
33. NEW STEEL LINTEL ABOVE WINDOWS (THIS SECTION OF BUILDING ONLY) WITH SALVAGED EXISTING BRICK COVER, TYP.
34. SINGLE 36" WIDE FULL HEIGHT CLAD REPLACEMENT DOOR AND SIDE LITE AT THIS LOCATION.
35. REPLACE EXISTING STEEL WINDOWS WITH CLAD OPERABLE DOUBLE HUNG WINDOWS.
36. REMOVE EXISTING CONCRETE RAMP AND HANDRAIL; PATCH SIDEWALK & STONE TO MATCH EXISTING.
37. EXISTING FIRE ESCAPE TO BE REMOVED AND BRICK PATCHED TO MATCH.

GENERAL WINDOW NOTES

A. ALL DOUBLE HUNG WINDOWS TO BE REPLACED WITH ALUMINUM CLAD WOOD DOUBLE HUNG WINDOWS UNLESS NOTED OTHERWISE. WINDOWS TO BE OF THE SAME SIZE TO FIT THE EXISTING OPENING.

B. PROVIDE METAL RECEPTOR SYSTEM FOR "OUT OF SQUARE" OPENINGS. FIELD TRIM RECEPTOR/SILL STARTER TO FIT "OUT OF SQUARE" OPENING CONDITIONS.

C. REPLACE STONE SILLS WITH MOLDED PRE-CAST CONCRETE OF SAME PROFILE.

D. REPLACE EXISTING LINTELS WITH MOLDED PRE-CAST CONCRETE OF SAME PROFILE.

E. PROVIDE NEW STEEL BEAMS AND LINTELS AT NON-PRECAST LINTEL LOCATIONS.

Job No: 2140
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Revisions:

No:	Date:
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No:	Date:
No:	Date:

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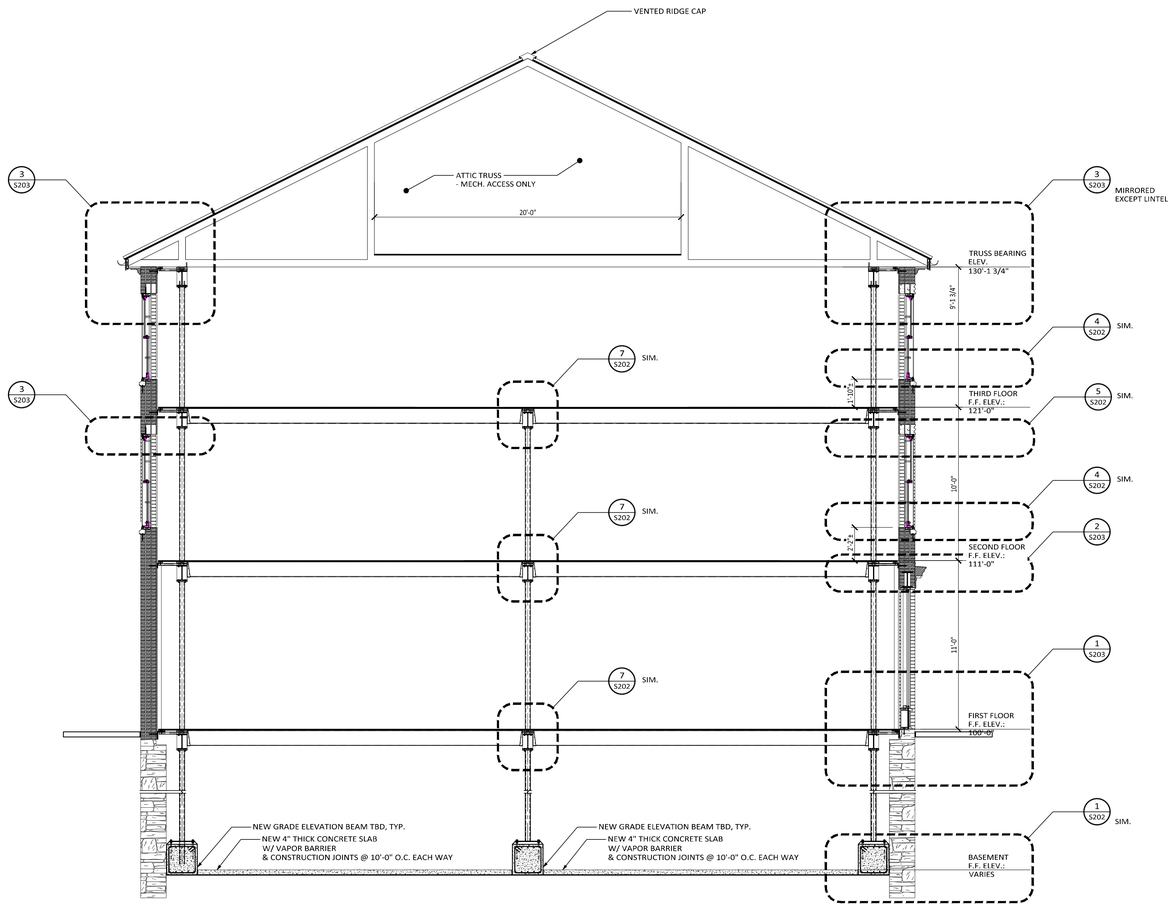
Mercersburg, Pennsylvania 17236

Drawing Title:
EXTERIOR ELEVATIONS

Sheet No.
A201

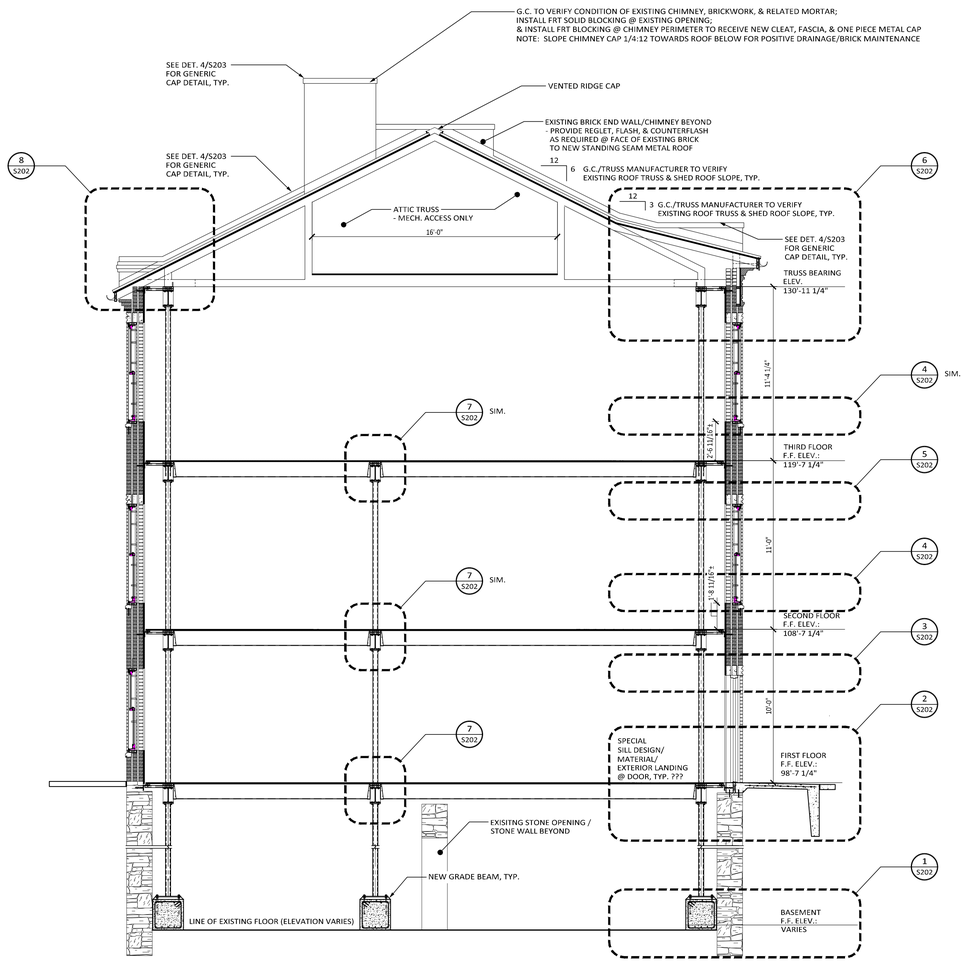
Date: 04/13/2022



2 A202 BUILDING SECTION @ EXISTING WEST BUILDING

1/4" = 1'-0"

SECTION @ SW CORNER WINDOW @ EXISTING COFFEE SHOP



1 A202 BUILDING SECTION @ EXISTING EAST BUILDING

1/4" = 1'-0"

SECTION @ BAY 9 - 10

Job No: 2140
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Checked:

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No:	Date:
No:	Date:
No:	Date:
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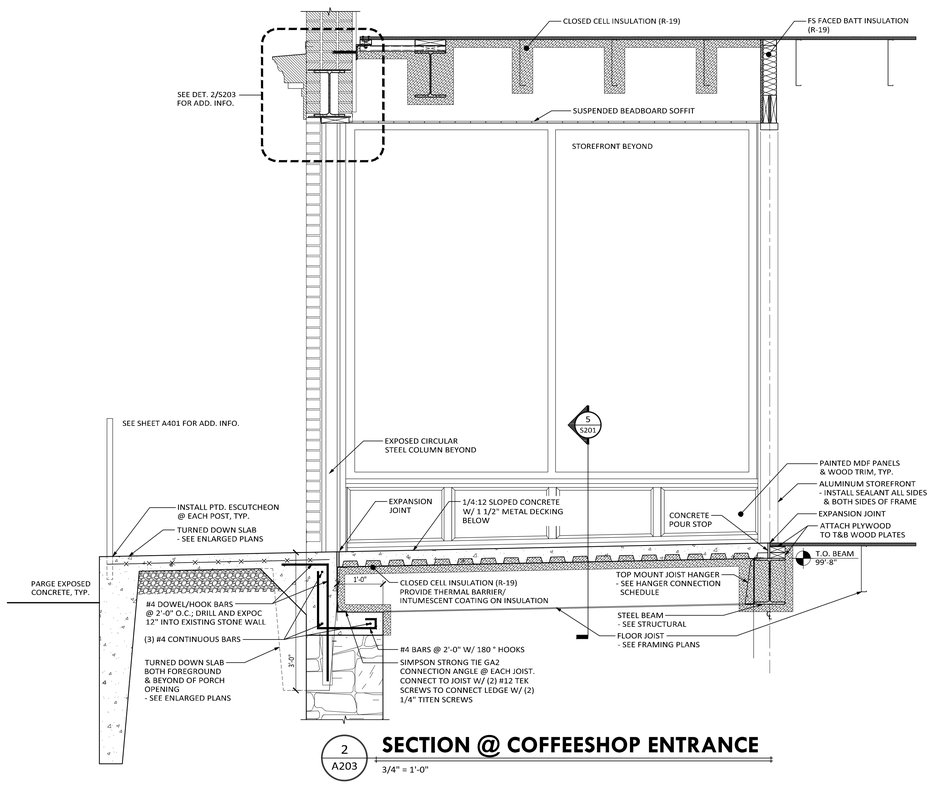
Drawing Title:
BUILDING
CROSS
SECTIONS

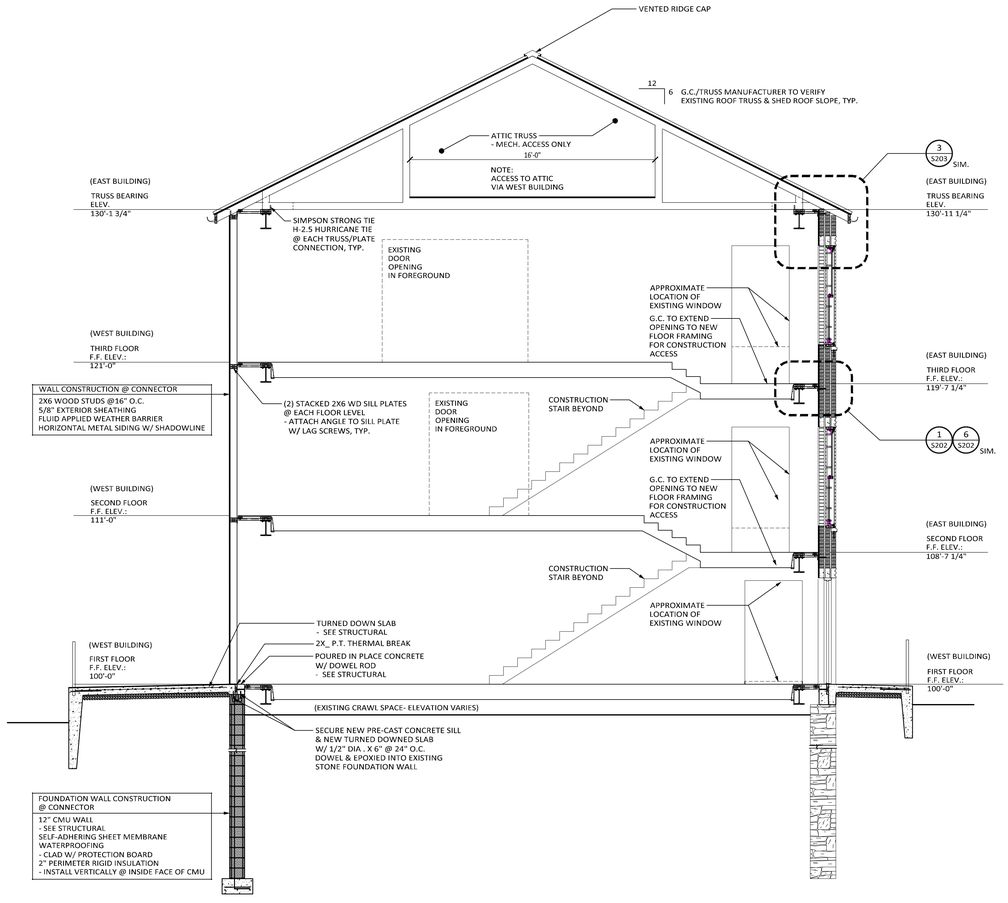
Sheet No.
A202

Date: 04/13/2022



2 A203 **SECTION @ COFFEESHOP ENTRANCE**

3/4" = 1'-0"



1 A203 **BUILDING SECTION @ CONNECTOR**

1/4" = 1'-0"

SECTION THROUGH TEMPORARY CONSTRUCTION STAIR; EXISTING STAIR/LANDINGS TO BE MODIFIED AS NECESSARY

Job No: 2140
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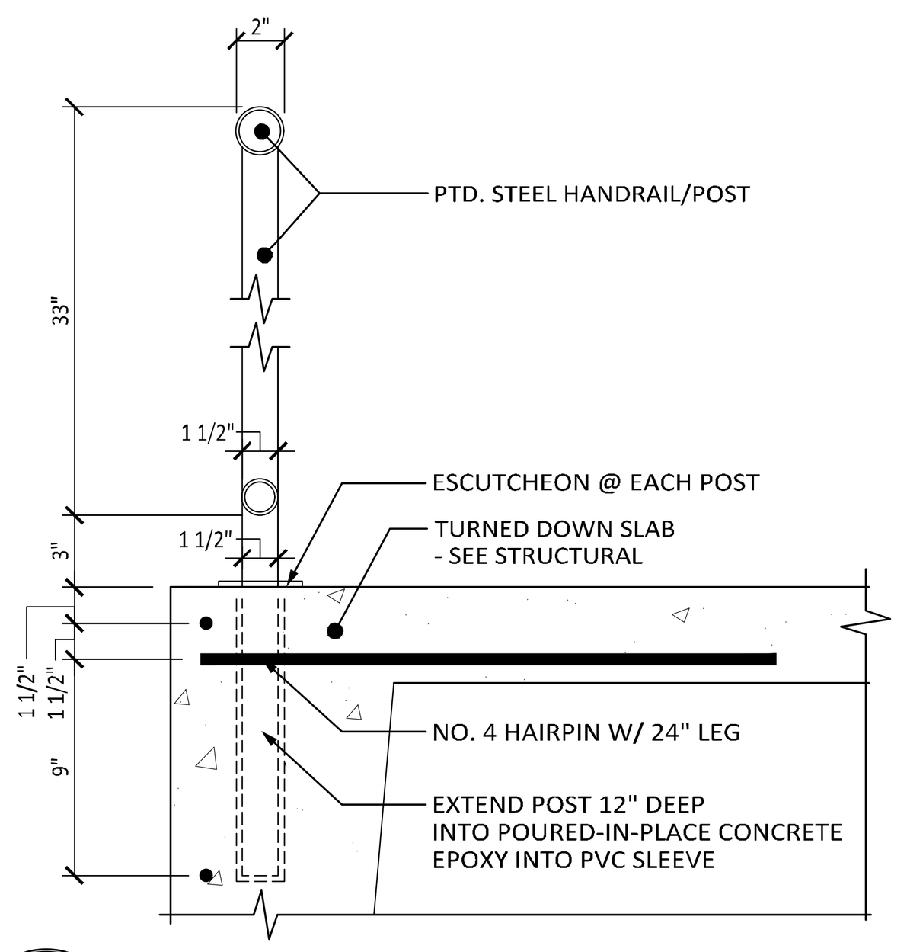
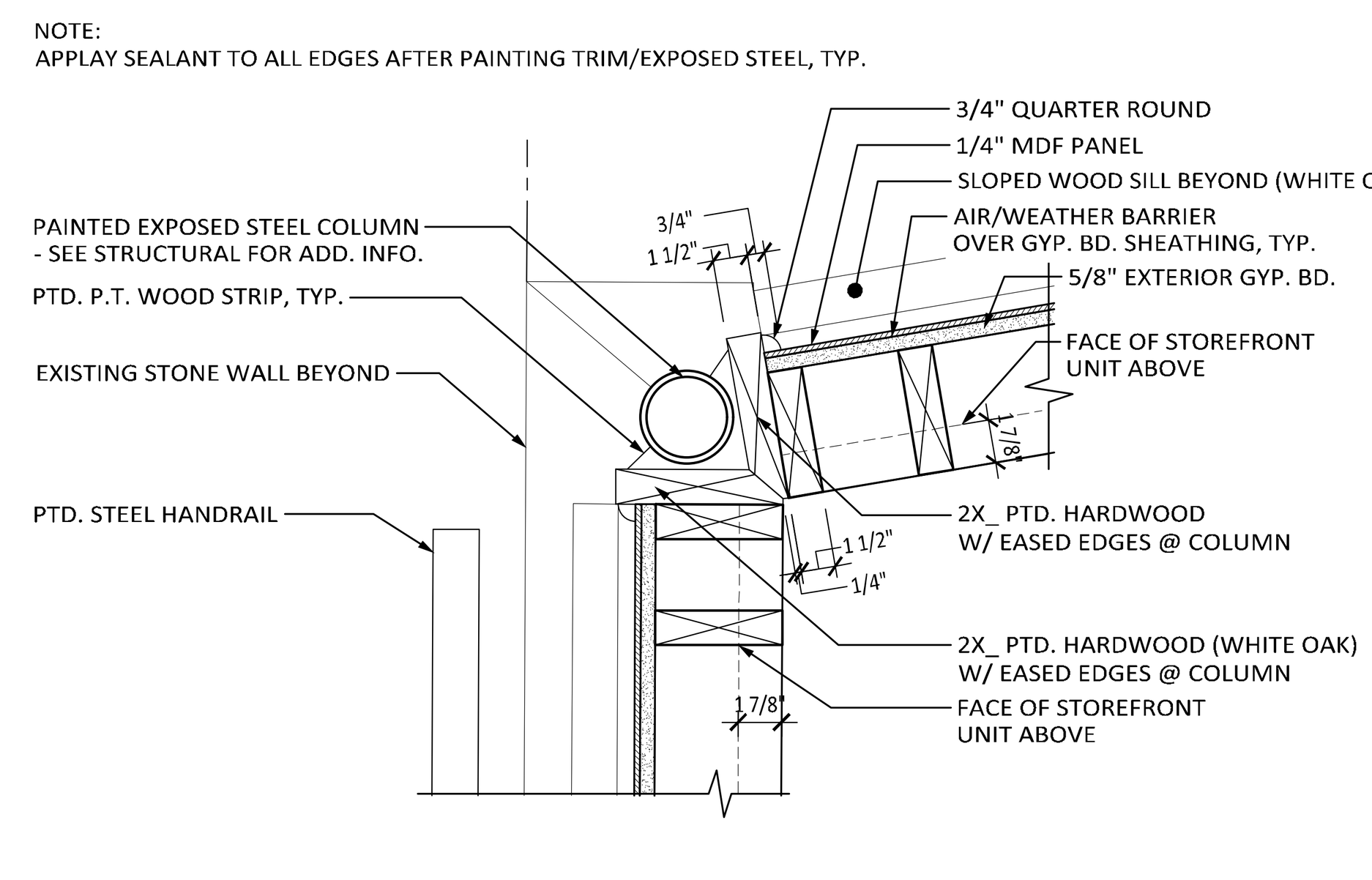
Drawing Title:
BUILDING SECTIONS

Sheet No.
A203

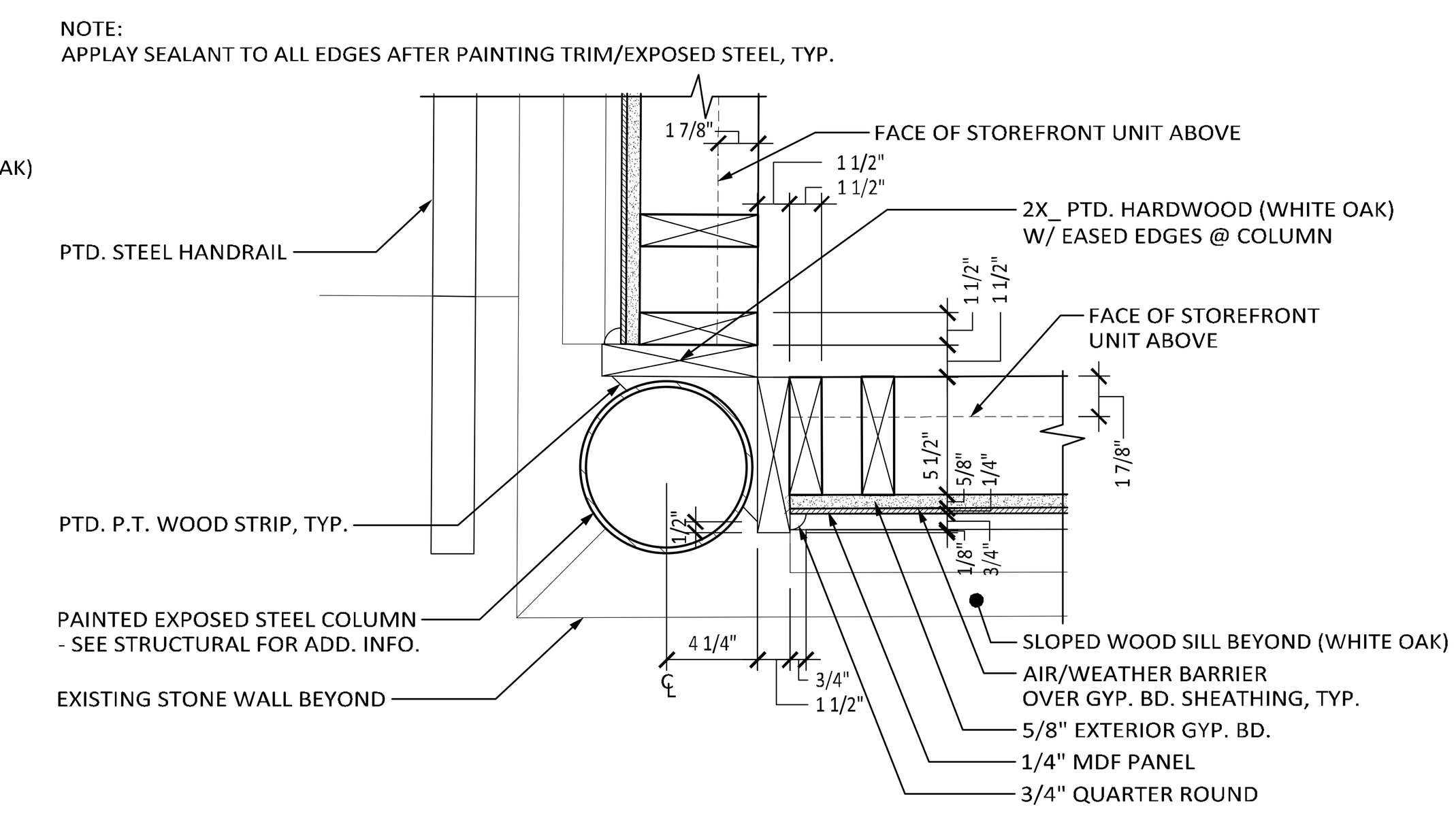
Date: 04/13/2022



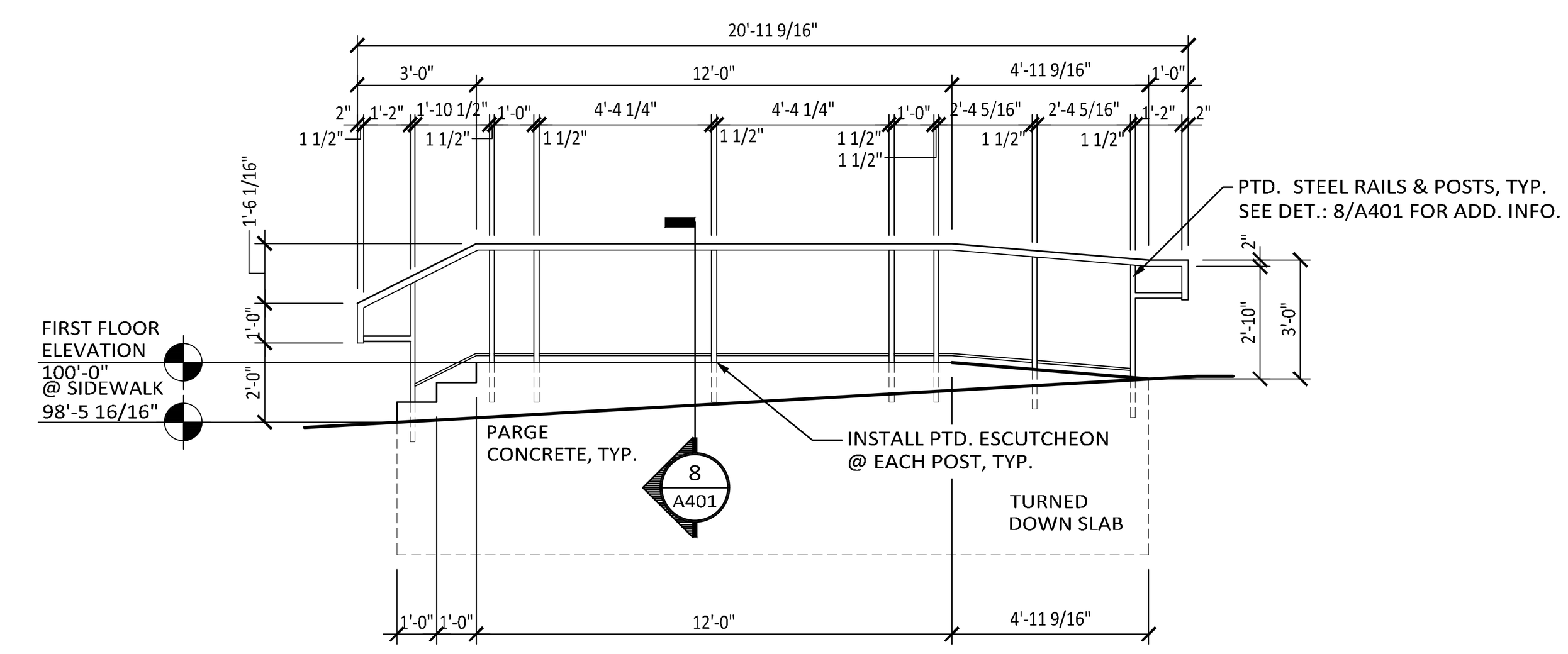
8 / A401 **POST/HANDRAIL DETAIL**
1 1/2" = 1'-0"
@ WALL BELOW WINDOW SYSTEM



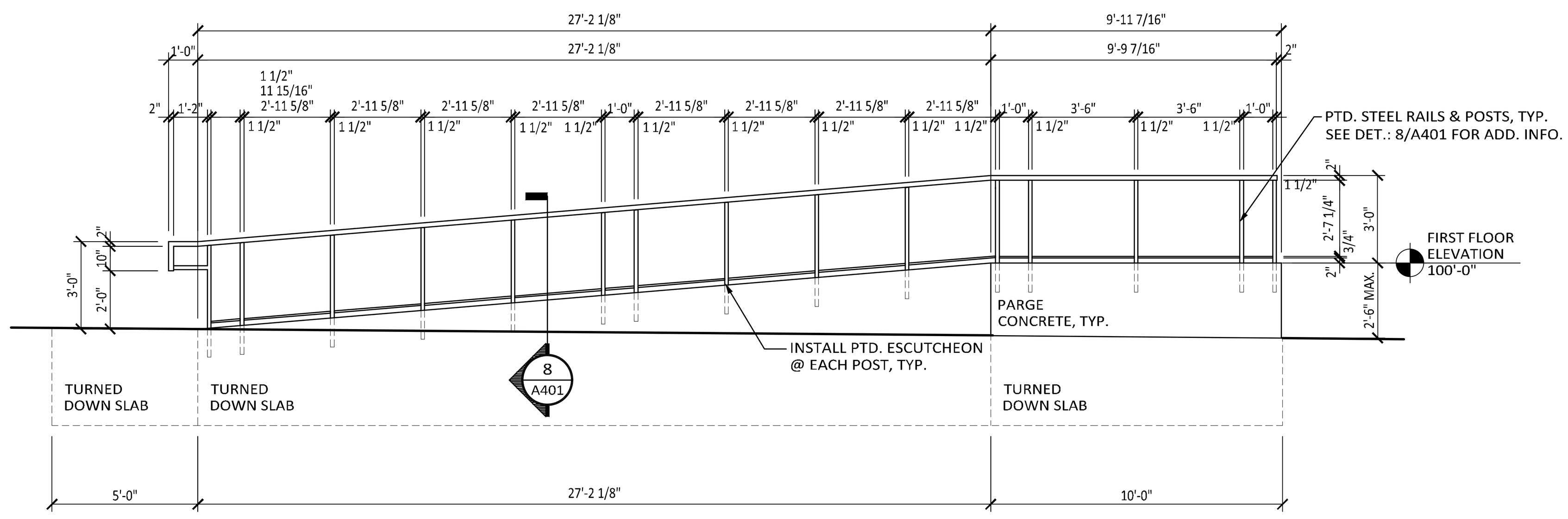
7 / A401 **COLUMN DETAIL**
1 1/2" = 1'-0"
@ WALL BELOW WINDOW SYSTEM



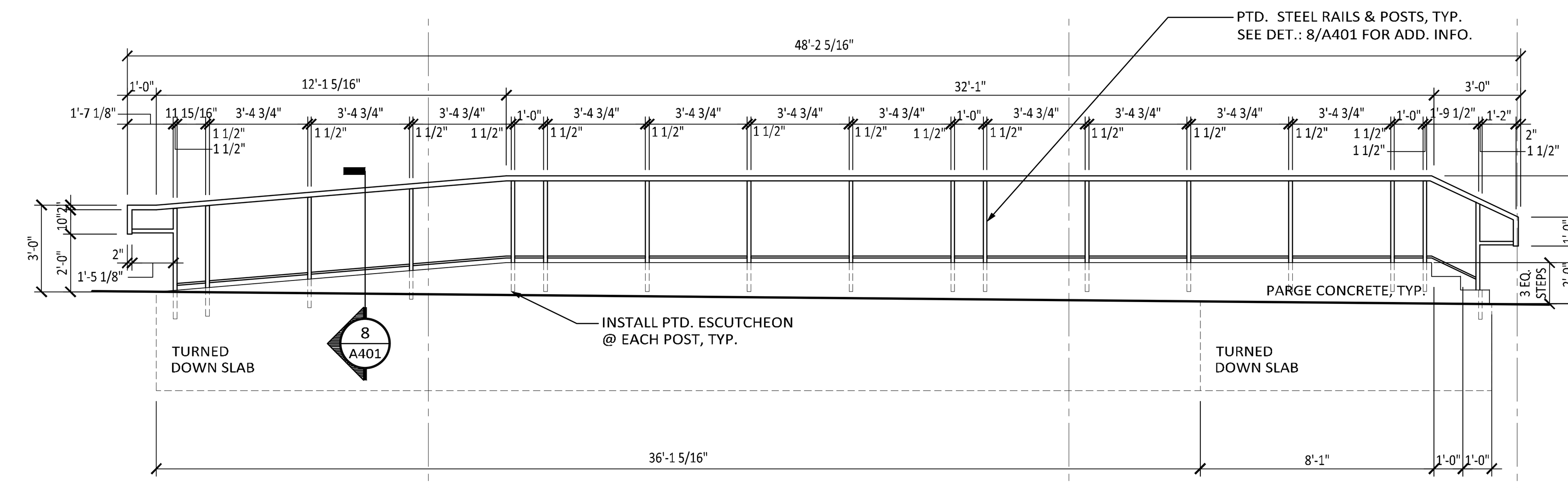
6 / A401 **COLUMN DETAIL**
1 1/2" = 1'-0"
@ WALL BELOW WINDOW SYSTEM



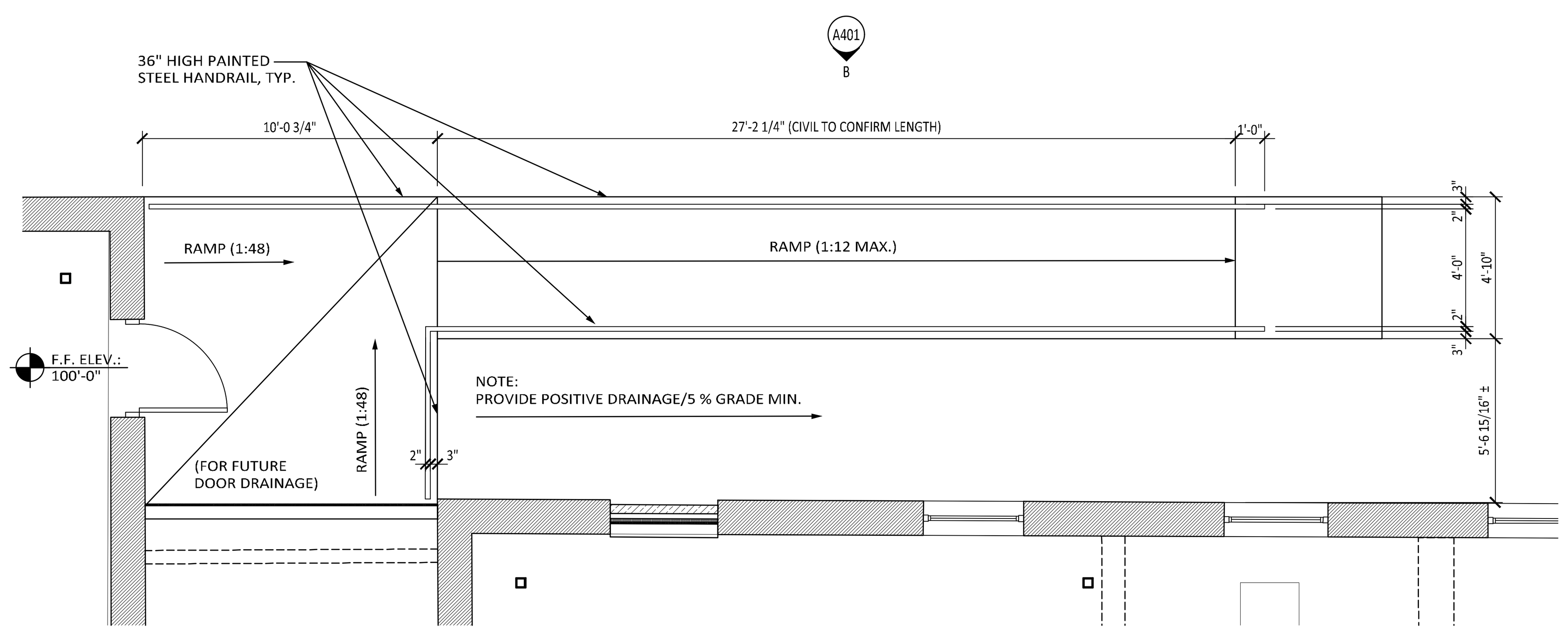
C **RAMP ELEVATION**
1/4" = 1'-0"



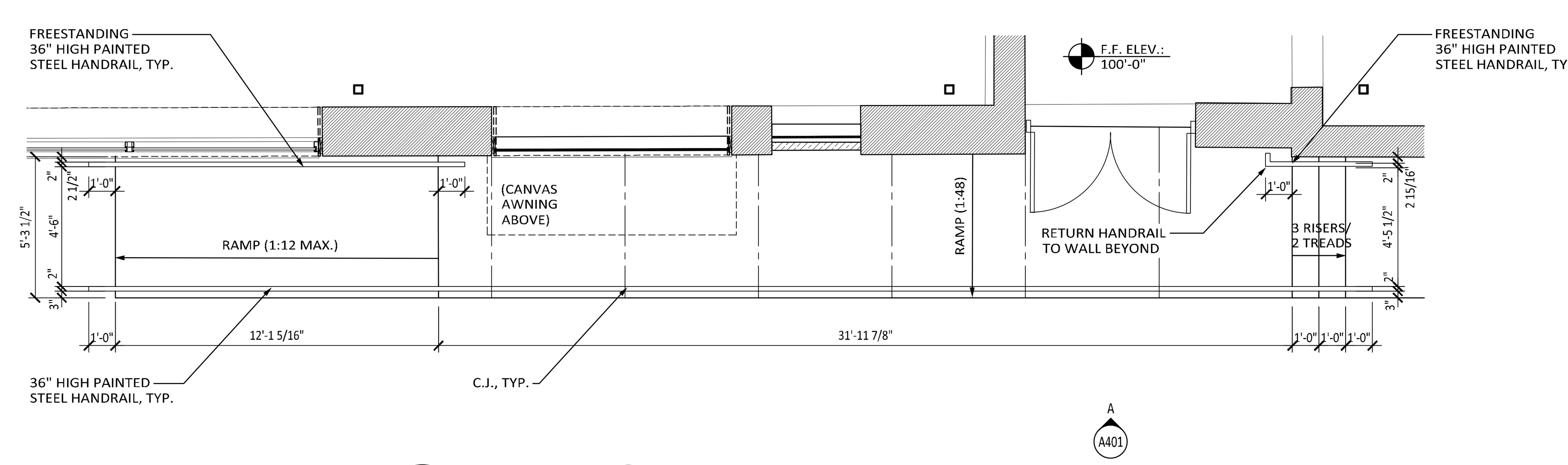
B **RAMP ELEVATION**
1/4" = 1'-0"



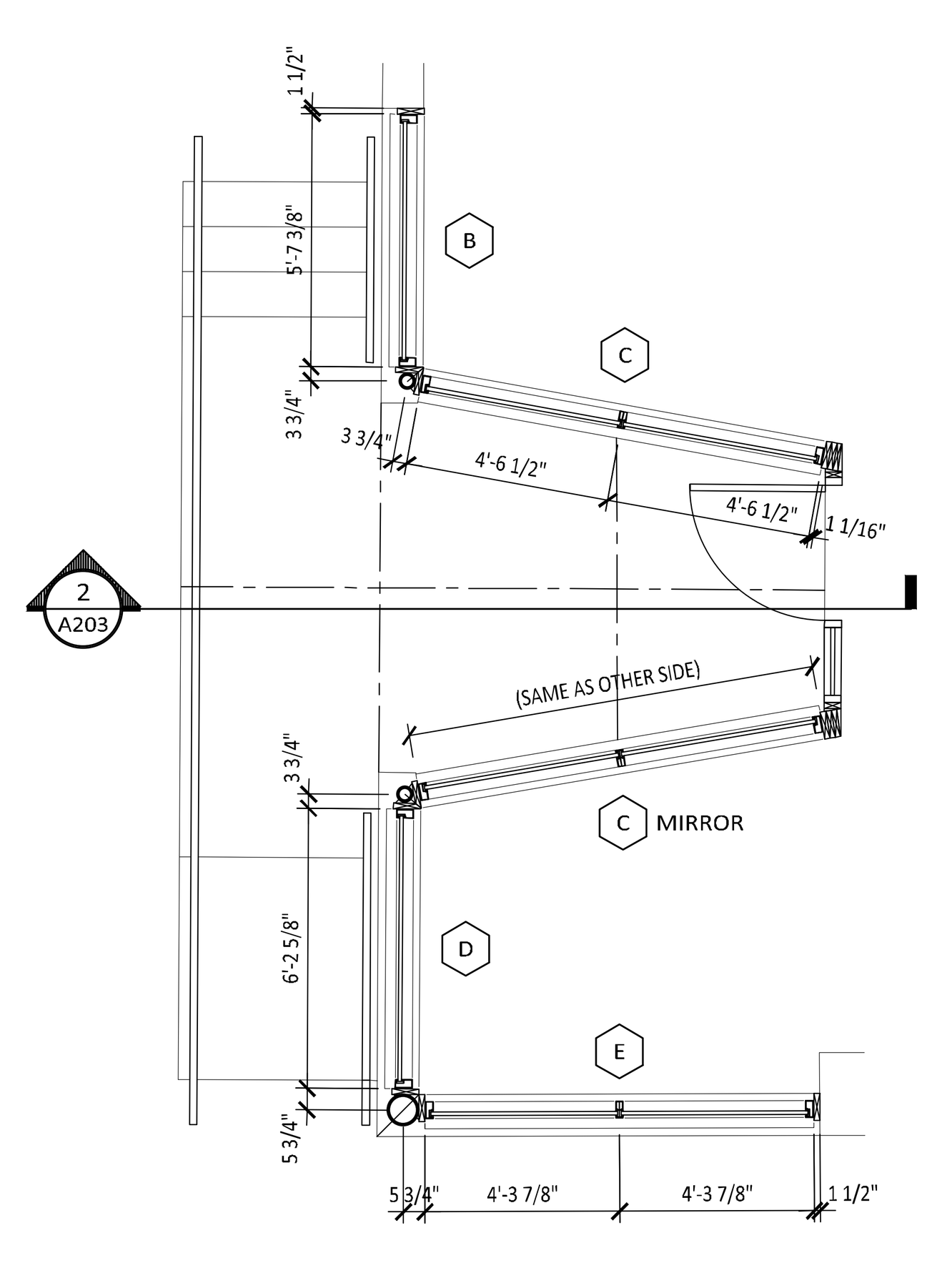
A **RAMP ELEVATION**
1/4" = 1'-0"



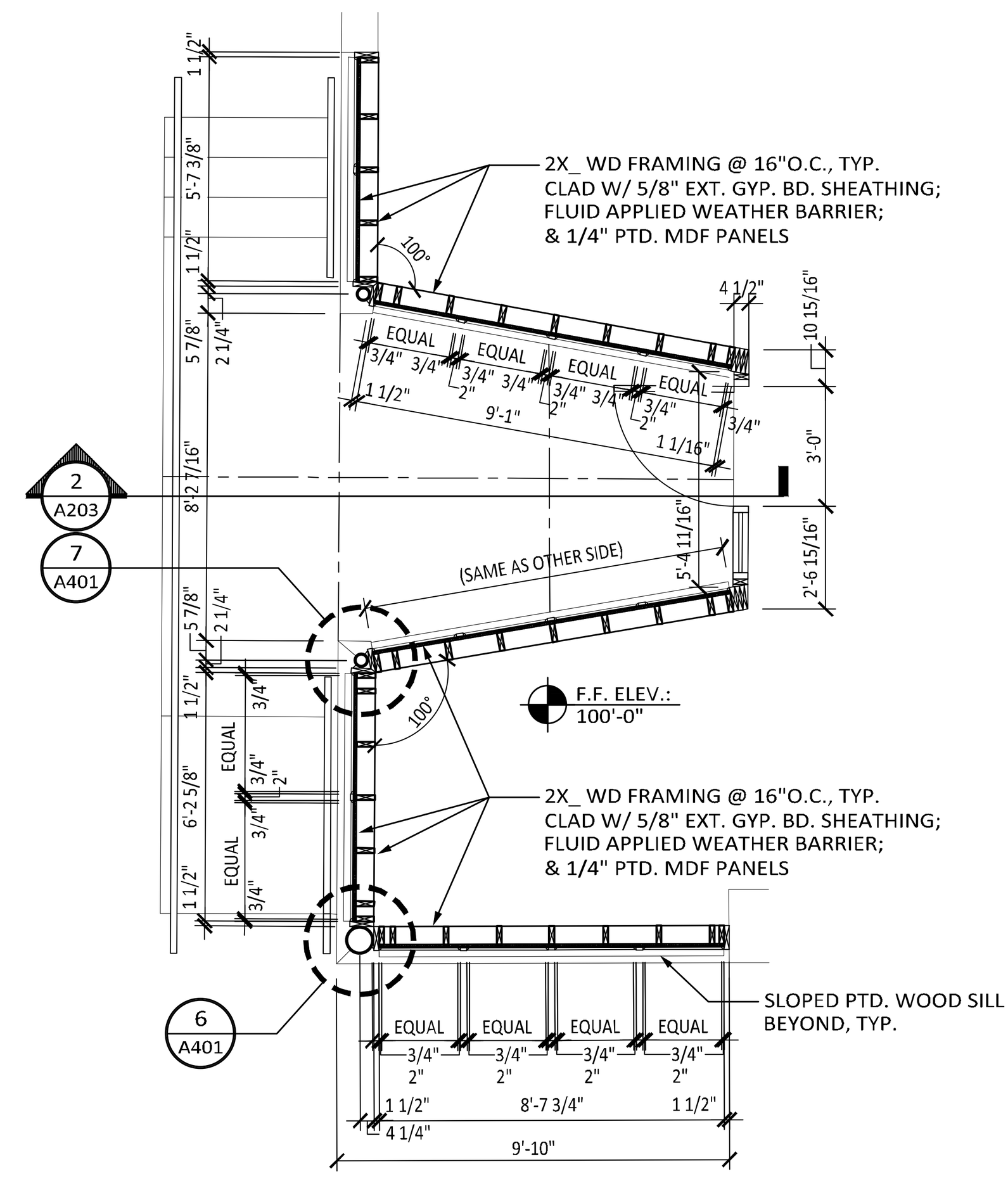
5 / A401 **RAMP @ NORTH ELEVATION**
1/4" = 1'-0"



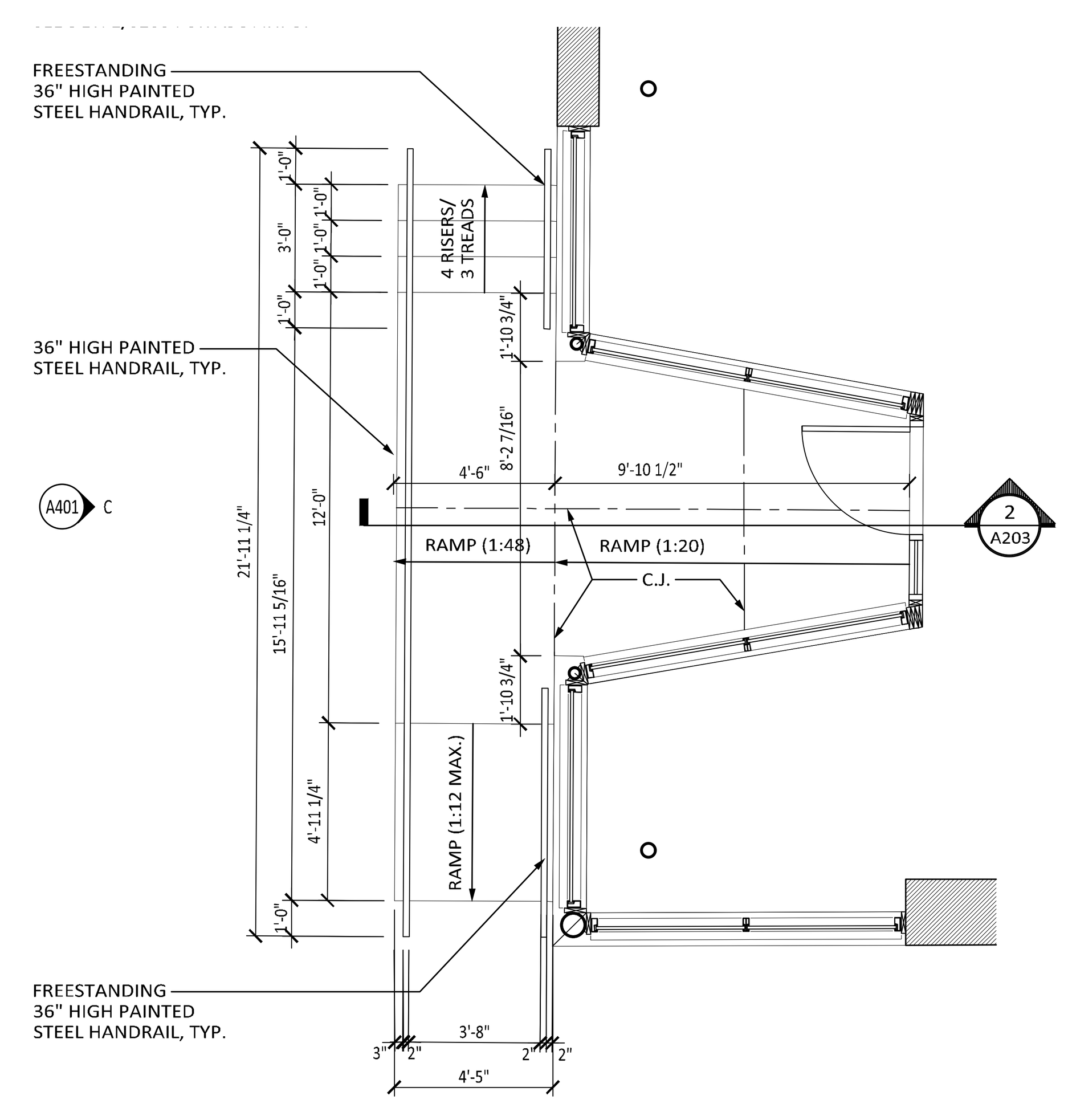
4 / A401 **RAMP @ SEMINARY STREET**
1/4" = 1'-0"



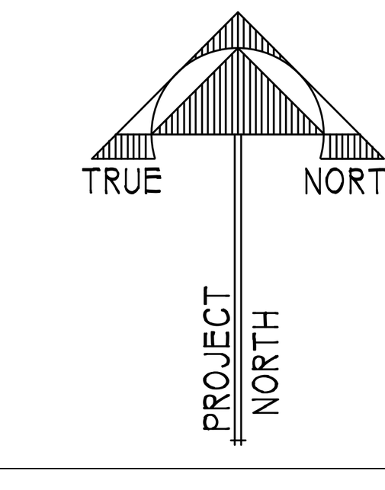
3 / A401 **ENTRY RAMP @ SQUARE**
1/4" = 1'-0"
WINDOW PLACEMENT INFO.



2 / A401 **ENTRY RAMP @ SQUARE**
1/4" = 1'-0"
PANEL DETAIL INFO.



1 / A401 **ENTRY RAMP @ SQUARE**
1/4" = 1'-0"
RAMP/HANDRAIL INFO.



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Drawing Title:
ENLARGED FLOOR & RAMP PLANS

Sheet No.
A401

Date: 04/13/2022

GLAZING SCHEDULE

ITEM	DESCRIPTION
G1	1" INSULATED GLASS W/ SOLARBAN 90 W/ (2) 1/4" GLASS PANELS
G2	INSULATED GLASS UNIT WITH LOW-E COATING AND ARGON

DOOR HARDWARE SCHEDULE

NOTE: ALL CLOSERS TO BE PUSH SIDE MOUNTED/PARALLEL EXCEPT DOOR 101A WHICH IS TO BE PULL SIDE

DOOR HARDWARE SET NO. 1:

- CONTINUOUS HINGE HEAVY DUTY
- PANIC HARDWARE DEVICE
  MANUF.: VON DUPRIN
  SERIES: 98L
- CLOSER WITH STOP LCN 4040-3077 CNS
- ADA COMPLIANT ALUMINUM THRESHOLD
- DOOR SWEEP
- WEATHER STRIPPING
- KEYING TO BE CONFIRMED W/ OWNER

DOOR HARDWARE SET NO. 2:

- (3) HINGES W/ NRP (NON-REMOVEABLE PIN)
- PANIC HARDWARE DEVICE
  MANUF.: VON DUPRIN
  SERIES: 98L-NL
- CLOSER WITH STOP LCN 4040-3077 CNS
- ADA COMPLIANT ALUMINUM THRESHOLD
- DOOR SWEEP
- WEATHER STRIPPING
- KEYING TO BE CONFIRMED W/ OWNER
- KICKPLATE @ INTERIOR PANEL FACE

DOOR HARDWARE SET NO. 3:

- (6) S.S. HINGES W/ NRP (NON-REMOVEABLE PIN)
- (2) SETS OF PANIC HARDWARE DEVICE
  MANUF.: VON DUPRIN
  SERIES: 9827L
- (2) DUST PROOF STRIKES
- (2) CLOSERS WITH STOPS LCN 4040-3077 CNS
- ADA COMPLIANT ALUMINUM THRESHOLD
- (2) DOOR SWEEPS
- WEATHER STRIPPING
- KEYING TO BE CONFIRMED W/ OWNER
- (2) KICKPLATES @ INTERIOR PANEL FACES

DOOR HARDWARE SET NO. 4:

- LEVER SET W/ SATIN FINISH
  SERIES: SCHLAGE ND50 PD SPA
- (3) HINGES W/ NRP (NON-REMOVEABLE PIN)
- CLOSER WITH STOP LCN 4040-3077 CNS
- ADA COMPLIANT ALUMINUM THRESHOLD
- DOOR SWEEP
- WEATHER STRIPPING
- KEYING TO BE CONFIRMED W/ OWNER
- KICKPLATE @ INTERIOR PANEL FACE

DOOR HARDWARE SET NO. 5:

- LEVER SET W/ SATIN FINISH
  SERIES: SCHLAGE ND50 PD SPA
- (3) S.S. HINGES W/ NRP (NON-REMOVEABLE PIN)
- CLOSER WITH STOP LCN 4040-3077 CNS
- ADA COMPLIANT ALUMINUM THRESHOLD
- DOOR SWEEP
- WEATHER STRIPPING
- KEYING TO BE CONFIRMED W/ OWNER
- (2) SECURITY PEEPHOLES; (1) @ 48" A.F.F. AND (1) @ 66" A.F.F.
- KICKPLATE @ INTERIOR PANEL FACE

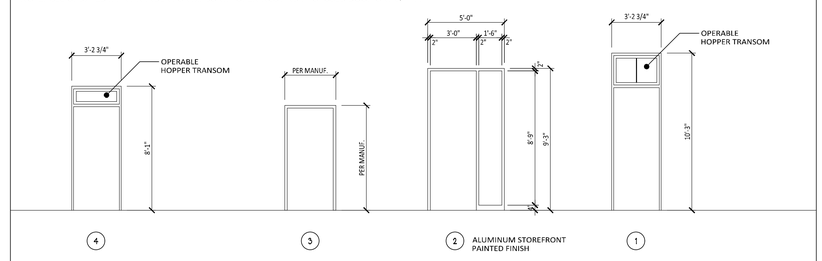
NOTE 1: SEE UPDATED MARVIN INDEX FOR MASONRY OPENINGS AND PROPOSED DOOR UNITS, TYP.
NOTE 2: ALL ALUM. CLAD DOORS TO BE MARVIN 'ULTIMATE CLAD DOORS'

DOOR AND FRAME SCHEDULE

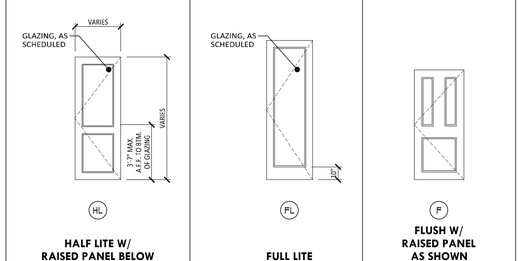
		DOOR										FRAME			
NO.	TYPE	STYLE	SIZE	THK.	MAT.	FIN.	GLAZING	RATING	HDWR.	SILL	JAMB	TYPE	MAT.	FIN.	REMARKS
101A	HINGED	HL	3'-0" X 8'-0"*	1 3/4"	ALUM. CLAD	PTD.	G1	-	4	ALUM.	-	1	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR/TRANSOM ABOVE SIZE & MASONRY OPENING
101B	HINGED	FL	3'-0" X 9'-1"*	1 3/4"	ALUM.	PTD.	G2	-	1	ALUM.	-	2	ALUM.	PTD.	* G.C. TO FIELD VERIFY DOOR SIZE OPENING
101C	HINGED	F	3'-0" X 6'-8"*	1 3/4"	ALUM. CLAD	PTD.	-	-	2	ALUM.	-	3	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR/TRANSOM ABOVE SIZE & MASONRY OPENING
101D	HINGED	F	3'-0" X 6'-8"*	1 3/4"	ALUM. CLAD	PTD.	-	-	4	ALUM.	-	3	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR/TRANSOM ABOVE SIZE & MASONRY OPENING
102A	HINGED	HL	3'-0" X 6'-8" & 3'-0"X6'-8"	1 3/4"	ALUM. CLAD	PTD.	G1	-	3	ALUM.	-	3	ALUM. CLAD	PTD.	NEW ENLARGED OPENING/FIELD VERIFICATION NOT REQUIRED
103A	HINGED	HL	3'-0" X 7'-6"*	1 3/4"	ALUM. CLAD	PTD.	G1	-	4	ALUM.	-	3	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR SIZE/MASONRY OPENING
103B	HINGED	HL	3'-0" X 6'-8"*	1 3/4"	ALUM. CLAD	PTD.	G1	-	4	ALUM.	-	3	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR SIZE/MASONRY OPENING
103C	HINGED	HL	3'-0" X 6'-8"*	1 3/4"	ALUM. CLAD	PTD.	G1	-	4	ALUM.	-	4	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR/TRANSOM ABOVE SIZE & MASONRY OPENING
103D	HINGED	F	3'-3" X 7'-2"*	1 3/4"	ALUM. CLAD	PTD.	G1	-	5	ALUM.	-	3	ALUM. CLAD	PTD.	* G.C. TO FIELD VERIFY DOOR SIZE/MASONRY OPENING

DOOR FRAME SCHEDULE

NOTE: SEE UPDATED MARVIN INDEX FOR MASONRY OPENINGS AND PROPOSED DOOR UNITS, TYP.

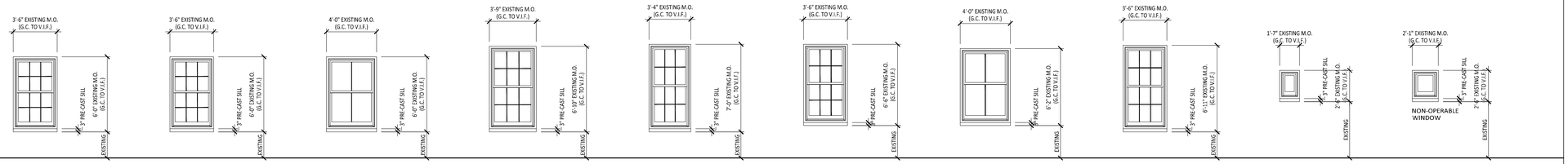


DOOR STYLE SCHEDULE



WINDOW TYPE SCHEDULE

NOTE 1: UNLESS NOTED OTHERWISE - ALL WINDOWS TO BE BY MARVIN (NO SUBSTITUTION)
SERIES: ULTIMATE DOUBLE HUNG; MODEL: G2; FEATURE: DIVIDED LITE
W/ SPACER BAR; BRICK MOULDS - SEE WALL SECTION FOR ADD. INFO.
NOTE 2: ALL MASONRY OPENING DIMENSIONS INCLUDE EXISTING WOOD SILL, TYP.
NEW WINDOW UNITS TO ALLOW FOR NEW 4" PRE-CAST MASONRY SILL & 2x_ PERIMETER FRAMING WITHIN EXISTING MASONRY OPENING
NOTE 3: SEE UPDATED MARVIN INDEX FOR MASONRY OPENINGS AND PROPOSED WINDOW UNITS, TYP.
NOTE 4: WINDOWS TO BE INSULATED GLASS UNITS WITH LOW-E COATING AND ARGON
NOTE 5: PROVIDE 7/8" SIMULATED DIVIDED LITES WITH SPACERS, TYP.



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Drawing Title:
WINDOW SCHEDULE & DETAILS

Sheet No.
A601

Date: 04/13/2022

STRUCT. ABBREVIATIONS

ABBREV.	DEFINITION
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM.	ALUMINUM
BD.	BOARD
BM.	BEAM
BRG.	BEARING
BTM.	BOTTOM
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
℄	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION/CONNECTED
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTL.	CONTROL
D.	DEEP
d	PENNY
DBL.	DOUBLE
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
EA.	EACH
ELEV.	ELEVATION/ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
E.O.D.	EDGE OF DECK
EQ.	EQUAL
E.W.	EACH WAY
EXP.	EXPANSION/EXPOSED
FD	FLOOR DRAIN
FDN.	FOUNDATION
FIN. FLR.	FINISH FLOOR
FLR.	FLOOR
F.O.	FACE OF
F.O.F.	FACE OF FRAMING
F.O.M.	FACE OF MASONRY
FRT	FIRE RETARDANT TREATED
FT.	FOOT/FEET
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
H.	HIGH
HORIZ.	HORIZONTAL
HR.	HOUR
H.S.S.	HOLLOW SHAPED SECTIONS
HT.	HEIGHT
JST.	JOIST
JT.	JOINT
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDE/LONGITUDINAL
L.V.L.	LAMINATED VENEER LUMBER
MAS.	MASONRY
MAX.	MAXIMUM
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRRORED
M.O.	MASONRY OPENING
MTL.	METAL
NO./#	NUMBER
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
O.S.	OUTSIDE
O.S.F.O.	OUTSIDE FACE OF
PAF	POWDER ACTUATED FASTENERS
P.I.P.	POURED IN PLACE
PL.	PLATE
PLYWD.	PLYWOOD
REQ'D	REQUIRED
SCHED.	SCHEDULE
S.F.	SQUARE FEET
SGL.	SINGLE
SHT.	SHEET
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
S.S.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURAL
T.F.	TOP OF FOOTING
THCKND.	THICKENED
THK.	THICK
T.O.	TOP OF
T.O.D.	TOP OF DECK
T.O.M.	TOP OF MASONRY
T.P.	TOP OF PIER
T.S.	TOP OF STEEL
TS	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.	WIDE/WIDTH
W/	WITH
WD.	WOOD
W.W.F.	WELDED WIRE FABRIC
X:X	INCHES PER FOOT
@	AT
Ø	DIAMETER

CONCRETE NOTES

1. CAST-IN-PLACE REINFORCED CONCRETE SHALL CONFORM TO ACI 318-14 SPECIFICATION WITH:
   A. F'C = 3000 PSI (FOUNDATIONS)
2. USE AIR-ENTRAINING ADMIXTURE IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING PROVIDING NOT LESS THAN 4% NOR MORE THAN 6% ENTRAINED AIR.
3. MINIMUM MIX PROPORTIONS SHALL UTILIZE 5-1/2 BAGS OF CEMENT PER CUBIC YARD FOR FOUNDATION CONCRETE, AND 6-1/2 BAGS OF CEMENT PER CUBIC YARD FOR FLOOR SLABS, AND ALL OTHER CAST-IN-PLACE CONCRETE.
4. MILD STEEL REINFORCEMENT SHALL CONFORM TO ASTM A 615, INCLUDING SUPPLEMENTARY REQUIREMENTS S1, "SPECIFICATION FOR DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT", GRADE 60 FY= 60 KSI). ALL REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI DETAILING MANUAL, ACI SP-66.
5. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A 185, "SPECIFICATIONS FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT".
6. PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER TO REINFORCEMENT EXCEPT WHERE NOTED OTHERWISE:
   A. ADJACENT TO FOOTING SURFACES CAST AGAINST EARTH 3".
   B. OTHER FOUNDATION SURFACES 1-1/2".
7. TOLERANCES FOR ALL CONCRETE SHALL BE AS SPECIFIED IN ACI 301-14.
8. THE FOLLOWING SHALL BE USED FOR ALL REINFORCING LAP LENGTHS AND DEVELOPMENT LENGTHS UNLESS NOTED OTHERWISE ON PLANS. UTILIZING CLASS B SPLICES DEFINED IN ACI 318-08.

BAR SIZE	LAP OR DEVELOPMENT LENGTH
#4	28 1/2"
#5	36"
#6	53 1/2"
#7	62 1/2"
#8	71 1/2"

9. CONCRETE REINFORCEMENT FIELD QUALITY CONTROL:
   A. PERFORM FIELD INSPECTION AND TESTING IN ACCORDANCE WITH ACI 318.
   B. INDEPENDENT TESTING AGENCY TO PERFORM THE FOLLOWING:
      1. PERFORM PERIODIC INSPECTIONS AND FINAL INSPECTION BEFORE CONCRETE PLACEMENT OF REINFORCING STEEL AND ITS PLACEMENT.
      2. ISSUE INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
10. CAST IN PLACE REINFORCEMENT FIELD QUALITY CONTROL
   A. FIELD INSPECTION AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH ACI 301.
   B. INDEPENDENT TESTING AGENCY TO PERFORM THE FOLLOWING:
      1. PERFORM CONTINUOUS INSPECTION OF:
         a. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT, AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.
            1) SLUMP: ASTM C143/C143M: ONE TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE; ONE SET FOR EACH SET OF TEST CYLINDERS.
            2) AIR CONTENT: ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH DAY'S POUR OF EACH TYPE OR AIR-ENTRAINED CONCRETE; ONE TEST FOR EACH SET OF TEST CYLINDERS.
            3) COMPRESSION TEST SPECIMEN: ASTM C31/C31M; ONE OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
            4) CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F AND BELOW, WHEN 80 DEGREES F AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
      2. PERFORM INSPECTION OF:
         a. VERIFYING USE OF REQUIRED DESIGN MIX.
         b. MAINTENANCE OS SPECIFIC CURING TEMPERATURE AND TECHNIQUES.
      3. ISSUE INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
   C. COMPRESSIVE STRENGTH TESTS: ASTM C39/C39M; ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CUBIC YARDS PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS MORE THAN THE FIRST 25 CUBIC YARDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATTER TESTING IF REQUIRED.
   D. STRENGTH LEVEL WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TESTS RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.

TIMBER NOTES

1. TIMBER CONSTRUCTION SHALL CONFORM TO "MANUAL OF HOUSE FRAMING" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION AND ANY LOCAL OR STATE BUILDING CODES.
2. STRUCTURAL FRAMING MEMBERS (2x6 AND LARGER) SHALL BE NO. 2 SPRUCE-PINE-FIR OR BETTER UNLESS NOTED OTHERWISE.
3. LIGHT FRAMING MEMBERS (2x4) SHALL BE CONSTRUCTION GRADE SPRUCE-PINE-FIR OR BETTER UNLESS NOTED OTHERWISE.
4. IDENTIFY EACH PLYWOOD PANEL WITH APPROPRIATE APA FRAMEWORK.
5. WHERE PLYWOOD PANELS WILL BE USED IN CONCEALED TYPE APPLICATIONS, PROVIDE APA PERFORMANCE RATED PANELS COMPLYING WITH REQUIREMENTS INDICATED FOR GRADE DESIGNATION, SPAN RATING, EXPOSURE DURABILITY CLASSIFICATION, EDGE DETAIL (WHERE APPLICABLE) AND THICKNESS.

FOUNDATION NOTES

1. FOUNDATION DESIGN ASSUMES AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS BEARING CAPACITY.
2. FOUNDATION SUITABILITY MUST BE VERIFIED IN THE FIELD BY THE SOILS ENGINEER.
3. THE BOTTOM OF ALL FOOTINGS SHALL HAVE A MINIMUM SAFE BEARING CAPACITY OF 2000 PSF. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL EXTEND 3'-0" MINIMUM BELOW FINISH GRADE AND 1'-0" MINIMUM INTO UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.
4. FOUNDATIONS ARE TO BE FOUNDED ON UNDISTURBED SUITABLE VIRGIN SOIL OR COMPACTED STRUCTURAL FILL.
5. FOR UNSUITABLE FOUNDATION MATERIAL REMEDIAL ACTION SHALL BE AFFECTED AND MAY CONSIST OF THE FOLLOWING (WITH PRIOR APPROVAL BY THE OWNER AND HIS SOILS ENGINEER):
   A. ROCK PARTIALLY UNDER FOUNDATIONS OR SLAB SHALL BE REMOVED TO ONE FOOT BELOW BOTTOM OF FOUNDATION AND EXCAVATION SHALL BE BACKFILLED WITH APPROVED COMPACTED (98%) STRUCTURAL FILL.
   B. SOFT UNSUITABLE MATERIAL UNDER FOUNDATIONS OR SLAB SHALL BE REMOVED TO REQUIRED DEPTH AND EXCAVATION SHALL BE BACKFILLED WITH APPROVED COMPACTED (98%) STRUCTURAL FILL..
   C. UNUSUAL CONDITIONS WILL REQUIRE RECOMMENDATION BY SOILS ENGINEER WITH THE AID OF CORE BORINGS.
6. DURING CONSTRUCTION ADJACENT TO THE EXISTING FACILITY, CARE SHALL BE EXERCISED SO AS NOT TO WEAKEN THE EXISTING STRUCTURE. BOTTOM OF NEW FOOTINGS ADJACENT TO THE EXISTING FACILITY SHALL MATCH THE BOTTOM OF THE EXISTING FOUNDATIONS.
7. ALL PIERS AND FOOTINGS ARE CONCENTRIC WITH COLUMNS UNLESS SHOWN OR NOTED OTHERWISE.
8. ALL FILLS WILL BE PLACED IN 8" MAXIMUM LIFTS, AND COMPACTED TO THE FOLLOWING MAXIMUM DRY DENSITIES ACCORDING TO STANDARD PROCTOR (ASTM D 698):
   A. BELOW FOUNDATION - 98%
   B. BELOW SLAB-ON-GRADE - 95%
   C. LANDSCAPED FILLS - 90%
9. EXCAVATION FIELD QUALITY CONTROL:
   A. REQUEST VISUAL INSPECTION OF BEARING SURFACES BY TESTING AGENCY INCLUDING NUCLEAR DENSITY TESTS AT A MAXIMUM OF 20 FEET ON CENTER BEFORE INSTALLING SUBSEQUENT WORK.
   B. COMPACTION TESTING: IN ACCORDANCE WITH ASTM D1556, ASTM D1557, ASTM D2922, AND ATSM D3017.
   C. FREQUENCY OF TEST:
      COMPACTION TEST: CONDUCT COMPACTION TESTS FOR EACH 100 LINEAR FEET OF EXCAVATION, OR MORE FREQUENTLY AS MAY BE REQUIRED BY THE MUNICIPALITY. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D1556 OR ASTM D2922. TEST RESULTS SHALL BE SUBMITTED TO THE ARCHITECT AND BUILDING OFFICIAL PRIOR TO FINISHED GRADING.
   D. PROVIDE COMPACTION TESTING OF ALL FILLING OPERATIONS AS REQUIRED BY THE GEOTECHNICAL REPORT OR ENGINEER. SUBMIT TEST REPORTS TO THE ARCHITECT AND BUILDING OFFICIAL.

CONC. MASONRY NOTES

1. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-14/ASCE 6-14/TMS 602-14.
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N-1 WITH A NET COMPRESSIVE STRENGTH OF 2200 PSI WHEN TESTED PER ASTM C140.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE S PORTLAND CEMENT/LIME MORTAR HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
4. THE COMPRESSIVE STRENGTH OF THE MASONRY PRISM, F'M, AS DETERMINED BY ASTM E447 SHALL BE A MINIMUM OF 1500 PSI.
5. REINFORCE MASONRY CORES AND BOND BEAMS WITH REINFORCING BARS AS SHOWN, FILL WITH BATCH PLANT MIXED GROUT (F'C =2500 PSI) IN SIX(6) COURSE MAXIMUM LIFTS, LOW-LIFT GROUTING.
6. JOINT REINFORCEMENT SHALL CONSIST OF TRUSS DESIGN, 9 GAGE @ 16" O.C. WITH CORNER AND "T" PIECES UNLESS NOTED. STOP TRUSS REINFORCEMENT EACH SIDE OF ALL CONTROL & EXPANSION JOINTS.
7. THE FOLLOWING SHALL BE USED FOR ALL REINFORCING LAP LENGTHS AND DEVELOPMENT LENGTHS UNLESS NOTED OTHERWISE ON PLANS:

BAR SIZE	LAP OR DEVELOPMENT LENGTH
#3	19"
#4	26"
#5	32"
#6	58"
#7	81"
#8	115"

8. MASONRY MORTAR AND GROUT FIELD QUALITY CONTROL:
   A. INDEPENDENT TESTING AGENCY TO DO THE FOLLOWING:
      1. PERFORM CONTINUOUS INSPECTION OF:
         a. GROUT PLACEMENT TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.
         b. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS SHALL BE OBSERVED.
            1) GROUT COMPRESSION TEST SECIMEN: ASTM C1019; ONE SET OF 4 STANDARD CUBES FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CUBES FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
            2) GROUT COMPRESSION STRENGTH TESTS: ASTM C1019; ONE SET PER WEEK PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS MORE THAN THE FIRST 25 CUBIC YARDS OF EACH MORTAR AND GROUT PLACED IN ANY WEEK; ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.
            3) MORTAR COMPRESSION TEST SPECIMEN: ASTM C780; ONE OF 4 STANDARD CUBES FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CUBES FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
            4) MORTAR COMPRESSIVE STRENGTH TESTS: ASTM C780; ONE SET PER WEEK PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS MORE THAN THE FIRST 25 CUBIC YARDS OF EACH MORTAR PLACED IN ANY WEEK; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATTER TESTING IF REQUIRED.
      2. PERFORM PERIODIC INSPECTIONS OF:
         a. PROPORTIONS OF SITE PREPARED MORTAR.
         b. THE FOLLOWING PRIOR TO GROUTING:
            1) GROUT SPACE IS CLEAR TO MORTAR.
            2) PLACEMENT OF REINFORCEMENT AND CONNECTIONS.
            3) PROPORTIONS OF SITE PREPARED GROUT.
      3. ISSUE INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
   B. AIR CONTENT: ASTM C231 PRESSURE METHOD FOR MORTAR; ONE PER WEEK OF EACH TYPE OF MORTAR; ONE TEST FOR EACH SET OF TEST CYLINDERS.
   C. MORTAR TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F AND BELOW, WHEN 80 DEGREES F AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
   D. STRENGTH LEVEL WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TESTS RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
   E. TEST AND EVALUATE GROUT IN ACCORDANCE WITH ASTM C1019.
   F. TEST MORTAR TO ASTM C1072, E447, AND E518.

STRUCTURAL DESIGN DATA

THE FOLLOWING CALCULATIONS ARE BASED ON THE MOST CURRENT VERSION OF STRUCTURAL CODE AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION AND ARE AS LISTED BELOW.

APPLICABLE STRUCTURAL CODES

2015 INTERNATIONAL BUILDING CODE
CONCRETE - ACI 318-14
MASONRY - ACI 530.1-14/ASCE 6-05/TMS 602-14
STRUCTURAL STEEL - AISC (13TH EDITION)

FLOOR LOADS

ALL AREAS OTHER THAN LISTED BELOW

LIVE LOAD	55 PSF
DEAD LOAD	20 PSF
TOTAL LOAD	75 PSF

ROOF LOAD

SNOW LOAD	21 PSF (PLUS DRIFT LOAD)
DEAD LOAD	20 PSF
TOTAL LOAD	41 PSF (PLUS DRIFT LOAD)

SNOW LOAD

GROUND SNOW LOAD	P_g = 30 PSF
FLAT ROOF SNOW LOAD	P_f = 21.0 PSF FOR C_t = 1.0 P_f = 22.1 PSF FOR C_t = 1.2
EXPOSURE FACTOR	C_e = 1.0
THERMAL FACTOR	C_t = 1.0 (ALL HEATED AREAS OF THE BUILDING SYSTEM) C_t = 1.2 (CANOPY AND ALL OTHER UNHEATED STRUCTURES)
IMPORTANCE FACTOR	I_s = 1.0

WIND LOAD

WIND SPEED	115 MPH
EXPOSURE CATAGORY	B
INTERNAL PRESSURE COEFFICIENT	GCP. = ± 0.15
VELOCITY PRESSURE	$Q_{HDG\ FLR}$ = 16.4 $Q_{HDG\ FLR}$ = 18.99 $Q_{ZTH\ FLR}$ = 21.87
CLADDING DESIGN PRESSURE	P = 23.62 $P_{PARAPET}$ = 32.17

SEISMIC LOAD

MAPPED SPECTRAL ACCELERATIONS FOR SHORT PERIODS	S_S = 0.127
MAPPED SPECTRAL ACCELERATIONS FOR A 1 SECOND PERIOD	S_1 = 0.052
SITE CLASSIFICATION	C
SEISMIC USE GROUP	II
OCCUPANCY IMPORTANCE FACTOR	I_E = 1.0
DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS	S_{DS} = 0.1016
DESIGN SPECTRAL RESPONSE ACCELERATION FOR A 1 SECOND PERIOD	S_{D1} = 0.0589
SEISMIC DESIGN CATEGORY	A
SEISMIC-FORCE RESISTING SYSTEM	ORDINARY PLAIN MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT	R = 1.5
DEFLECTION AMPLIFICATION FACTOR	C_d = 1.75
SEISMIC ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC RESPONSE COEFFICIENT	C_S = 0.06773
SEISMIC DESIGN BASE SHEAR	V = NOT APPLICABLE

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC SPECIFICATION SPECIFIED ABOVE.
2. STRUCTURAL STEEL ITEMS SHALL CONFORM TO ASTM A992 (FY = 50 KSI), UNLESS NOTED OTHERWISE.
3. ALL WELDING SHALL CONFORM TO THE RECOMMENDED PRACTICES OF THE AMERICAN WELDING SOCIETY, AND SHALL BE BY CERTIFIED WELDERS. SUBMIT WELDER'S CERTIFICATION AND PROCEDURES FOR ALL WELDS BEFORE FABRICATION OF STEEL.
4. BEAM CONNECTIONS SHALL USE 3/4" DIAMETER HIGH STRENGTH BOLTS IN ACCORDANCE WITH ASTM A325-N, IF NOT OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
5. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING FOR THE STRUCTURAL STEEL (EXISTING AND NEW).
6. ADJUST JOIST LAYOUT AND PROVIDE SUPPLEMENTAL JOISTS AS REQUIRED TO AVOID POTENTIAL CONFLICTS WITH MECHANICAL AND PLUMBING SYSTEMS. MAINTAIN MAXIMUM SPACING AS INDICATED IN PLANS. SUBMIT SHOP DRAWINGS AS REQUIRED.
7. ALL STRUCTURAL STEEL EXPOSED TO FILL SHALL BE COATED WITH A BITUMINOUS ASPHALT CEMENT.
8. FILL CMU SOLID WITH GROUT 2'-0" MINIMUM EACH SIDE OF BEAM BEARING LOCATION AT ALL NOTED AREAS.
9. STRUCTURAL STEEL FIELD QUALITY CONTROL
   A. INDEPENDENT TESTING AGENCY TO PERFORM THE FOLLOWING:
      1. PERFORM CONTINUOUS INSPECTIONS OF:
         a. SLIP-CRITICAL HIGH STRENGTH BOLTING.
         b. COMPLETE AND PARTIAL PENETRATING GROOVE WELDS.
         c. MULTI-PASS FILLET WELDS.
         d. SINGLE-PASS FILLET WELDS > 5/16 INCH.
      2. PERFORM PERIODIC INSPECTIONS OF:
         a. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.
         b. BEARING-TYPE BOLT CONNECTIONS.
         c. SLIP-CRITICAL HIGH STRENGTH BOLTING IF INSTALLED USING TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, DIRECT TENSION INDICATOR METHOD OR TWIST-OFF BOLTS METHOD.
         d. SINGLE-PASS FILLET WELDS > 5/16 INCH.
         e. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
      3. ISSUE INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

STRUCT. DRAWING SYMBOLS

SYMBOL	DESCRIPTION
1	CONTINUOUS FOOTING TAG
A	ISOLATED FOOTING TAG
1	PIER TAG
1	DECK TAG
J1	JOIST TAG
1	COLUMN GRID MARKER
REFERENCE / ELEVATION	ELEVATION MARKER
	MOMENT CONNECTION
BM. SIZE / TP. / BM. ELEV.	BEAM TAG
	SNOW LOAD MARKER
	INDICATES PENETRATIONS/OPENING THRU FLOOR/ROOF SPACE. HEADER AROUND THESE OPENINGS AS SHOWN.

STRUCTURAL GENERAL NOTES:

1. EACH CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS TOLERANCES, CONSTRUCTION CONDITIONS, ETC. AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. ALL DIMENSIONS GIVEN TO FACE OF FRAMING, FACE OF MASONRY, CENTERLINE OF STEEL, CENTERLINE OF DOORS, OR CENTERLINE OF WINDOWS UNLESS NOTED OTHERWISE.
3. THIS BUILDING AND ALL SITE WORK PERTAINING TO IT IS TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE 2009 ANSI A117.1 AND THE 2010 AMERICANS WITH DISABILITIES ACT (ADA).
4. VERIFY AND COORDINATE NEW CONSTRUCTION F.F. ELEVATION WITH EXISTING BUILDING F.F. ELEVATION.
5. MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING CONSTRUCTION.
6. TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING CONSTRUCTION.
7. ALL PATCH AND REPAIR WORK SHALL BE PERFORMED IN A WORKMAN-LIKE MANNER BY EXPERIENCED TRADESMEN.
8. EXISTING PLASTER WALL FINISH TO BE MAINTAINED ON THE INTERIOR SURFACE. THIS IS CONSIDERED PART OF THE WALL INTEGRITY. AREA REMOVED TO BE REPLACED TO MATCH EXISTING.
9. REMOVE AND REPLACE ANY DETERIORATED BRICK MORTAR. RE-POINTING OF MORTAR SHALL BE PERFORMED WITH MATCHING MORTAR. CARE SHALL BE EXERCISED AS TO NOT DAMAGE EXISTING BRICK.
10. REMOVE AND REPLACE AND BROKEN, CRACKED, OR ERODED BRICK.
11. ANY OPENINGS THAT WILL BE INFILLED SHOULD BE DONE WITH BRICK THAT WILL HAVE THE SAME COMPRESSIVE STRENGTH AS THE EXISTING BRICK. INFILLED OPENING SHOLD BE TOOTHED TO MATCH EXISTING WALL.
12. DELAMINATED WYTHES OF BRICK ARE TO BE REMOVED AND RE-INSTALLED WITH PROPER MORTAR TYING THE WYTHESE TOGETHER. EXTERIOR/INTERIOR CONCEALED BRICK TIES ARE AN OPTION FOR BRICK WYTHE INTERCONNECTION.
13. **INSTALLATION OF NEW FLOOR FRAMING SHALL BE PERFORMED IN SUCH A MANOR AS TO NOT ADVERSELY IMPOSE FORCES INTO THE EXISTING EXTERIOR BRICK WALLS.**
14. **THE EXISTING BUILDING STABILITY SHALL BE MAINTAINED DURING CONSTRUCTION WORK.**

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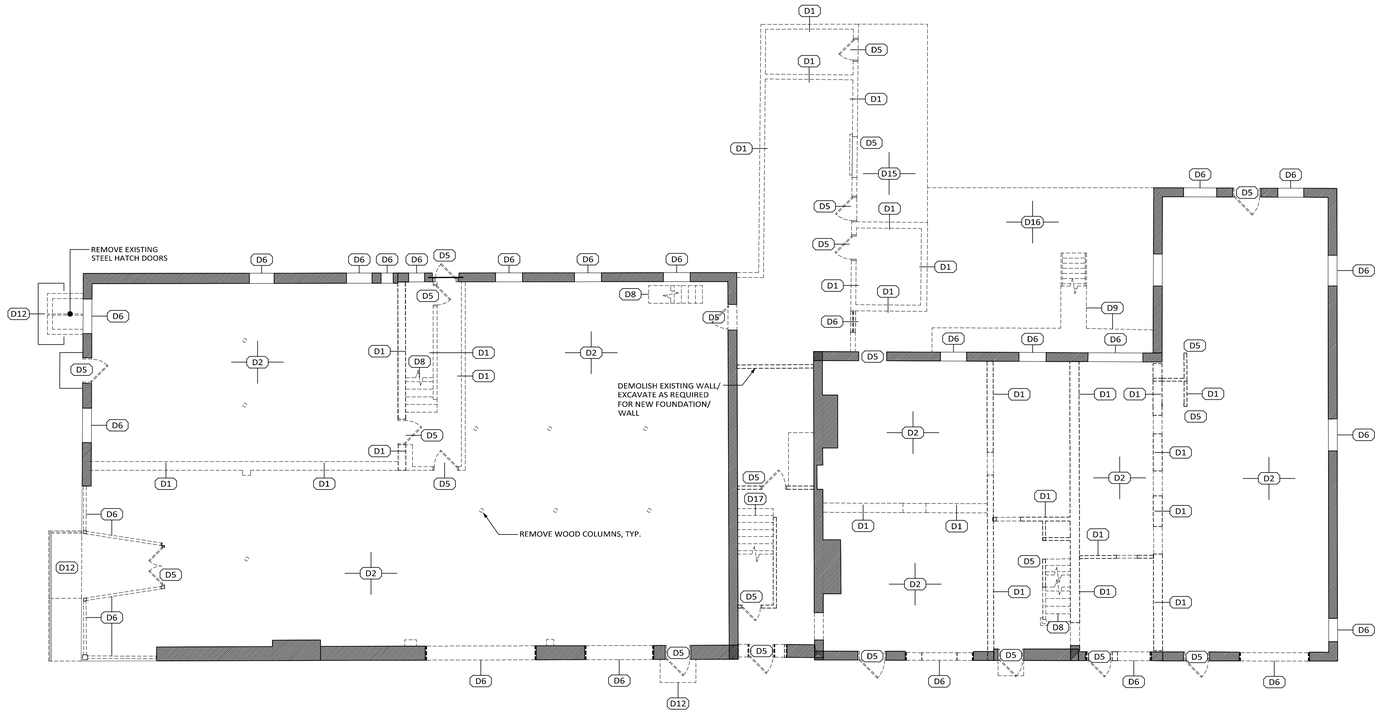
Drawing Title:
STRUCTURAL NOTES AND SYMBOLS

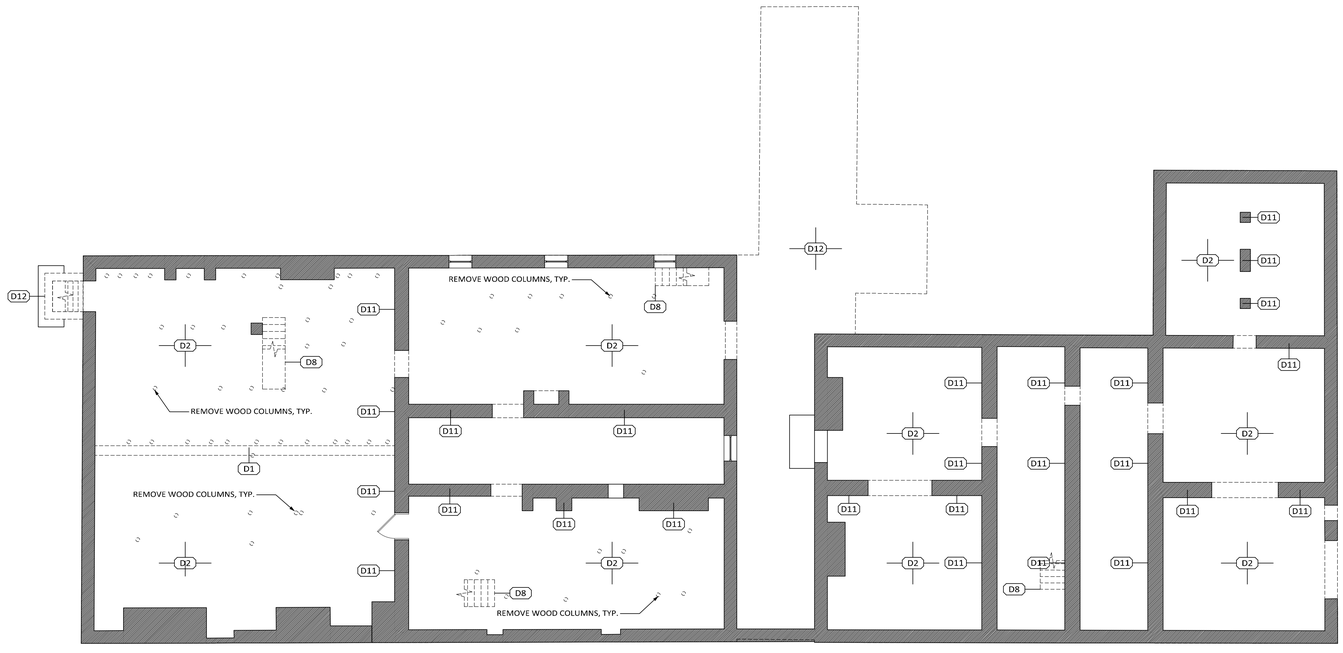
Sheet No.
S000

Date: 04/13/2022



FIRST FLOOR STRUCTURAL DEMO PLAN

1/8" = 1'-0"



BASEMENT STRUCTURAL DEMO PLAN

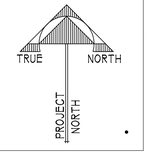
1/8" = 1'-0"

DEMOLITION SCHEDULE

TYPE	DESCRIPTION
D1	REMOVE EXISTING WALL
D2	REMOVE EXISTING JOISTS & RELATED FLOOR DECKING IN THIS AREA
D3	REMOVE EXISTING STONE WALL FOR INSTALLATION OF NEW CONCRETE PIERS
D4	REMOVE EXISTING ROOF TRUSSES
D5	REMOVE EXISTING DOOR & RELATED THRESHOLDS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D6	REMOVE EXISTING WINDOW & RELATED SILLS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D7	REMOVE EXISTING CHIMNEY TO UNDER ROOF ONLY
D8	REMOVE EXISTING STAIRS
D9	REMOVE EXISTING FIRE ESCAPE
D10	REMOVE EXISTING TRUSSES/ROOF (ENTIRE BUILDING)
D11	REMOVE TOP OF EXISTING STONE WALL AS REQUIRED FOR PROPOSED NEW FRAMING/STRUCTURE
D12	REMOVE EXISTING FOUNDATION WALL, CONCRETE SLABS, RAMPS, AND STAIRS (INFILL 'HOLE' TO MATCH EXISTING CONDITIONS)
D13	REMOVE EXISTING DORMERS & RELATED WINDOWS, METAL ROOF SHEATHING, TRUSSES, FLOOR DECKING, ATTIC STAIRS, BRICK CHIMNEY, AND INTERIOR ATTIC PARTITIONS
D14	DEMOLISH EXISTING ROOF, SHEATHING, & RELATED STRUCTURE
D15	DEMOLISH EXISTING APSHALT PARKING
D16	DEMOLISH EXISTING CONCRETE SLAB
D17	MODIFY EXISTING STAIR LANDINGS AS NECESSARY FOR CONSTRUCTION STAIRS

DEMOLITION GENERAL NOTES:

1. OWNER RESERVES SALVAGE RIGHTS TO ANY CONSTRUCTION TO BE DEMOLISHED. ITEMS REJECTED BY THE OWNER SHALL BECOME THE REMOVING CONTRACTOR'S PROPERTY. CONTRACTOR IS TO DISPOSE OF DEMOLISHED CONSTRUCTION OFF SITE. COORDINATE ALL DEMOLITION WORK WITH OWNER.
2. MAINTAIN STRUCTURAL INTEGRITY OF REMAINING BUILDING AT ALL TIMES DURING DEMOLITION.
3. MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING DEMOLITION.
4. SEE STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
5. TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING DEMOLITION.



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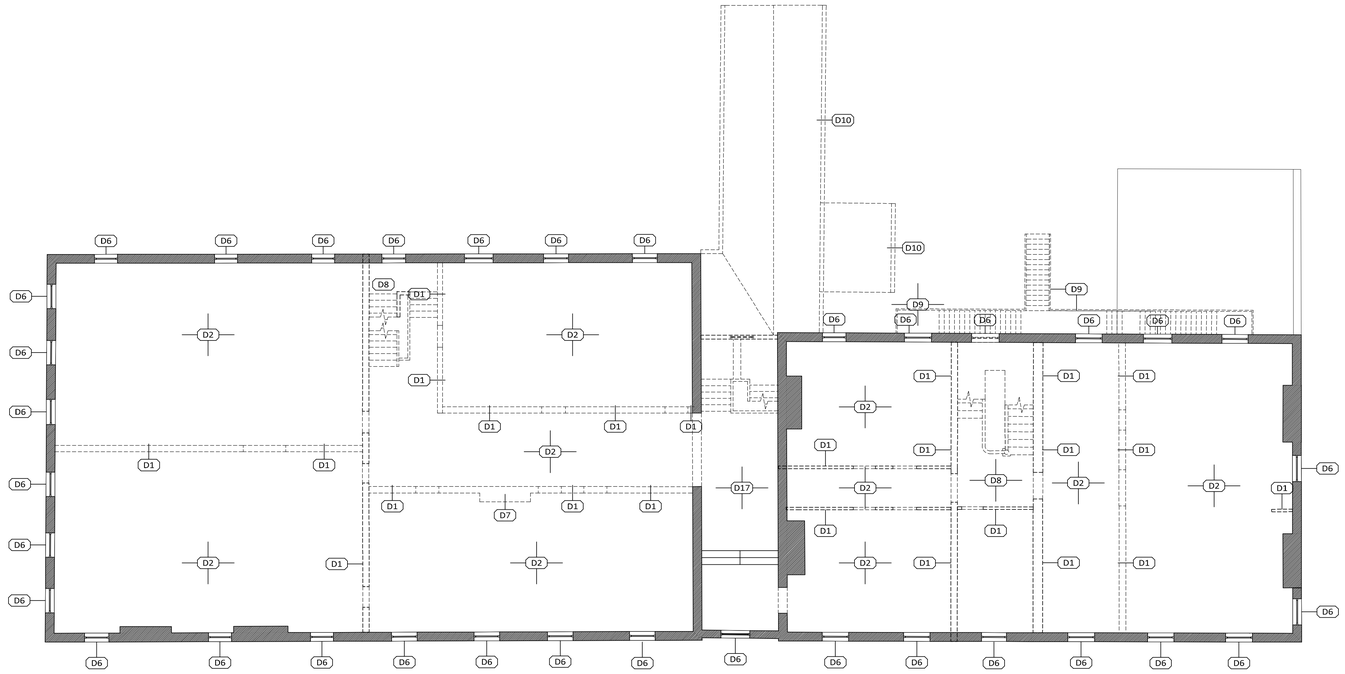
Drawing Title:
BASEMENT AND FIRST FLOOR STRUCTURAL DEMO PLANS

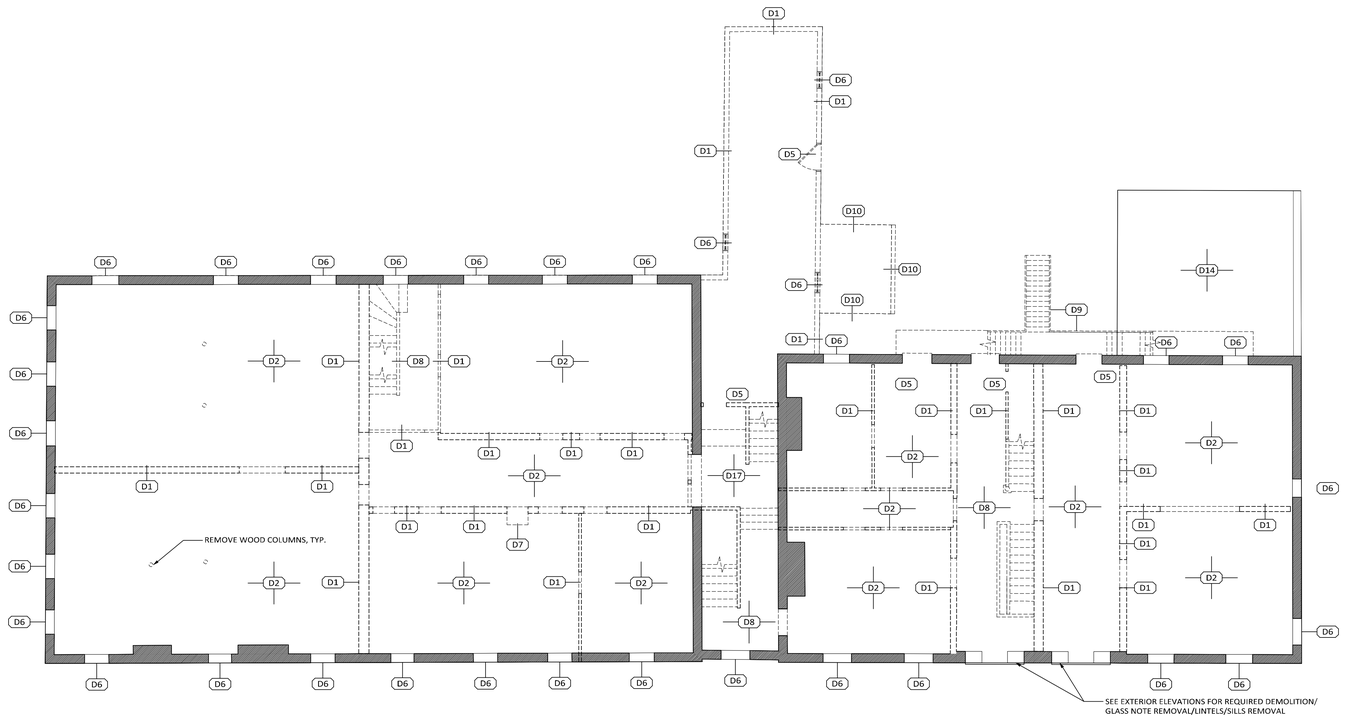
Sheet No.
S001

Date: 04/13/2022



THIRD FLOOR STRUCTURAL DEMO PLAN

1/8" = 1'-0"



SECOND FLOOR STRUCTURAL DEMO PLAN

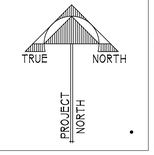
1/8" = 1'-0"

DEMOLITION SCHEDULE

TYPE	DESCRIPTION
D1	REMOVE EXISTING WALL
D2	REMOVE EXISTING JOISTS & RELATED FLOOR DECKING IN THIS AREA
D3	REMOVE EXISTING STONE WALL FOR INSTALLATION OF NEW CONCRETE PIERS
D4	REMOVE EXISTING ROOF TRUSSES
D5	REMOVE EXISTING DOOR & RELATED THRESHOLDS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D6	REMOVE EXISTING WINDOW & RELATED SILLS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D7	REMOVE EXISTING CHIMNEY TO UNDER ROOF ONLY
D8	REMOVE EXISTING STAIRS
D9	REMOVE EXISTING FIRE ESCAPE
D10	REMOVE EXISTING TRUSSES/ROOF (ENTIRE BUILDING)
D11	REMOVE TOP OF EXISTING STONE WALL AS REQUIRED FOR PROPOSED NEW FRAMING/STRUCTURE
D12	REMOVE EXISTING FOUNDATION WALL, CONCRETE SLABS, RAMPS, AND STAIRS (INFILL 'HOLE' TO MATCH EXISTING CONDITIONS)
D13	REMOVE EXISTING DORMERS & RELATED WINDOWS, METAL ROOF SHEATHING, TRUSSES, FLOOR DECKING, ATTIC STAIRS, BRICK CHIMNEY, AND INTERIOR ATTIC PARTITIONS
D14	DEMOLISH EXISTING ROOF, SHEATHING, & RELATED STRUCTURE
D15	DEMOLISH EXISTING ASPHALT PARKING
D16	DEMOLISH EXISTING CONCRETE SLAB
D17	MODIFY EXISTING STAIR LANDINGS AS NECESSARY FOR CONSTRUCTION STAIRS

DEMOLITION GENERAL NOTES:

1. OWNER RESERVES SALVAGE RIGHTS TO ANY CONSTRUCTION TO BE DEMOLISHED. ITEMS REJECTED BY THE OWNER SHALL BECOME THE REMOVING CONTRACTOR'S PROPERTY. CONTRACTOR IS TO DISPOSE OF DEMOLISHED CONSTRUCTION OFF SITE. COORDINATE ALL DEMOLITION WORK WITH OWNER.
2. MAINTAIN STRUCTURAL INTEGRITY OF REMAINING BUILDING AT ALL TIMES DURING DEMOLITION.
3. MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING DEMOLITION.
4. SEE STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
5. TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING DEMOLITION.



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No:	Date:
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13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
SECOND AND THIRD FLOOR STRUCTURAL DEMO PLANS

Sheet No.
S002

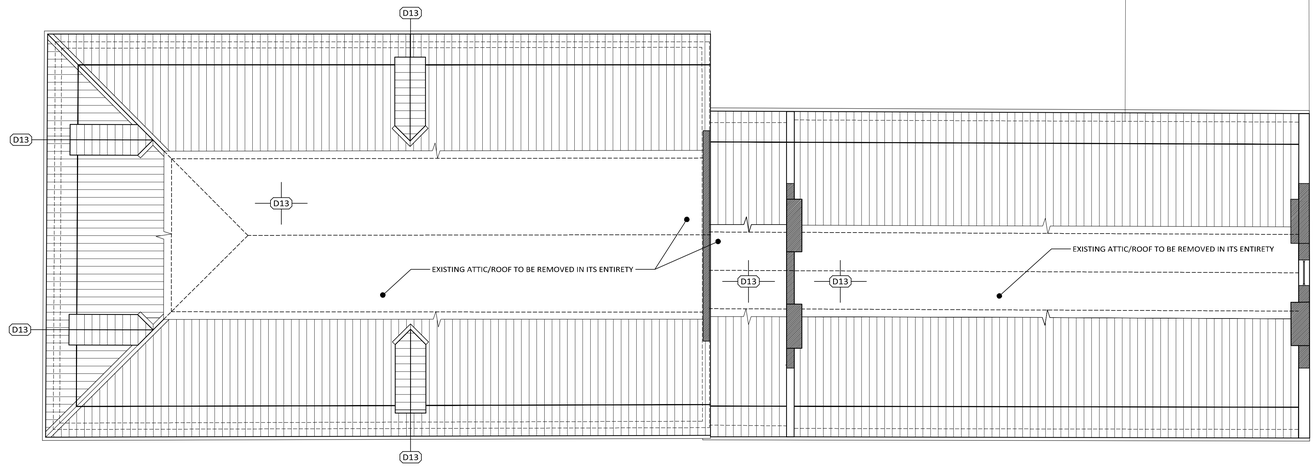
Date: 04/13/2022

DEMOLITION SCHEDULE

TYPE	DESCRIPTION
D1	REMOVE EXISTING WALL
D2	REMOVE EXISTING JOISTS & RELATED FLOOR DECKING IN THIS AREA
D3	REMOVE EXISTING STONE WALL FOR INSTALLATION OF NEW CONCRETE PIERS
D4	REMOVE EXISTING ROOF TRUSSES
D5	REMOVE EXISTING DOOR & RELATED THRESHOLDS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D6	REMOVE EXISTING WINDOW & RELATED SILLS - SEE EXTERIOR ELEVATIONS FOR ADD. INFO.
D7	REMOVE EXISTING CHIMNEY TO UNDER ROOF ONLY
D8	REMOVE EXISTING STAIRS
D9	REMOVE EXISTING FIRE ESCAPE
D10	REMOVE EXISTING TRUSSES/ROOF (ENTIRE BUILDING)
D11	REMOVE TOP OF EXISTING STONE WALL AS REQUIRED FOR PROPOSED NEW FRAMING/STRUCTURE
D12	REMOVE EXISTING FOUNDATION WALL, CONCRETE SLABS, RAMPS, AND STAIRS (INFILL 'HOLE' TO MATCH EXISTING CONDITIONS)
D13	REMOVE EXISTING DORMERS & RELATED WINDOWS, METAL ROOF SHEATHING, TRUSSES, FLOOR DECKING, ATTIC STAIRS, BRICK CHIMNEY, AND INTERIOR ATTIC PARTITIONS
D14	DEMOLISH EXISTING ROOF, SHEATHING, & RELATED STRUCTURE
D15	DEMOLISH EXISTING APSHALT PARKING
D16	DEMOLISH EXISTING CONCRETE SLAB
D17	MODIFY EXISTING STAIR LANDINGS AS NECESSARY FOR CONSTRUCTION STAIRS

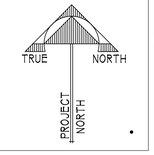
DEMOLITION GENERAL NOTES:

1. OWNER RESERVES SALVAGE RIGHTS TO ANY CONSTRUCTION TO BE DEMOLISHED. ITEMS REJECTED BY THE OWNER SHALL BECOME THE REMOVING CONTRACTOR'S PROPERTY. CONTRACTOR IS TO DISPOSE OF DEMOLISHED CONSTRUCTION OFF SITE. COORDINATE ALL DEMOLITION WORK WITH OWNER.
2. MAINTAIN STRUCTURAL INTEGRITY OF REMAINING BUILDING AT ALL TIMES DURING DEMOLITION.
3. MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING DEMOLITION.
4. SEE STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
5. TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING DEMOLITION.



ATTIC STRUCTURAL DEMO PLAN

1/8" = 1'-0"



Job No: 2140
Drawn: T. Parson
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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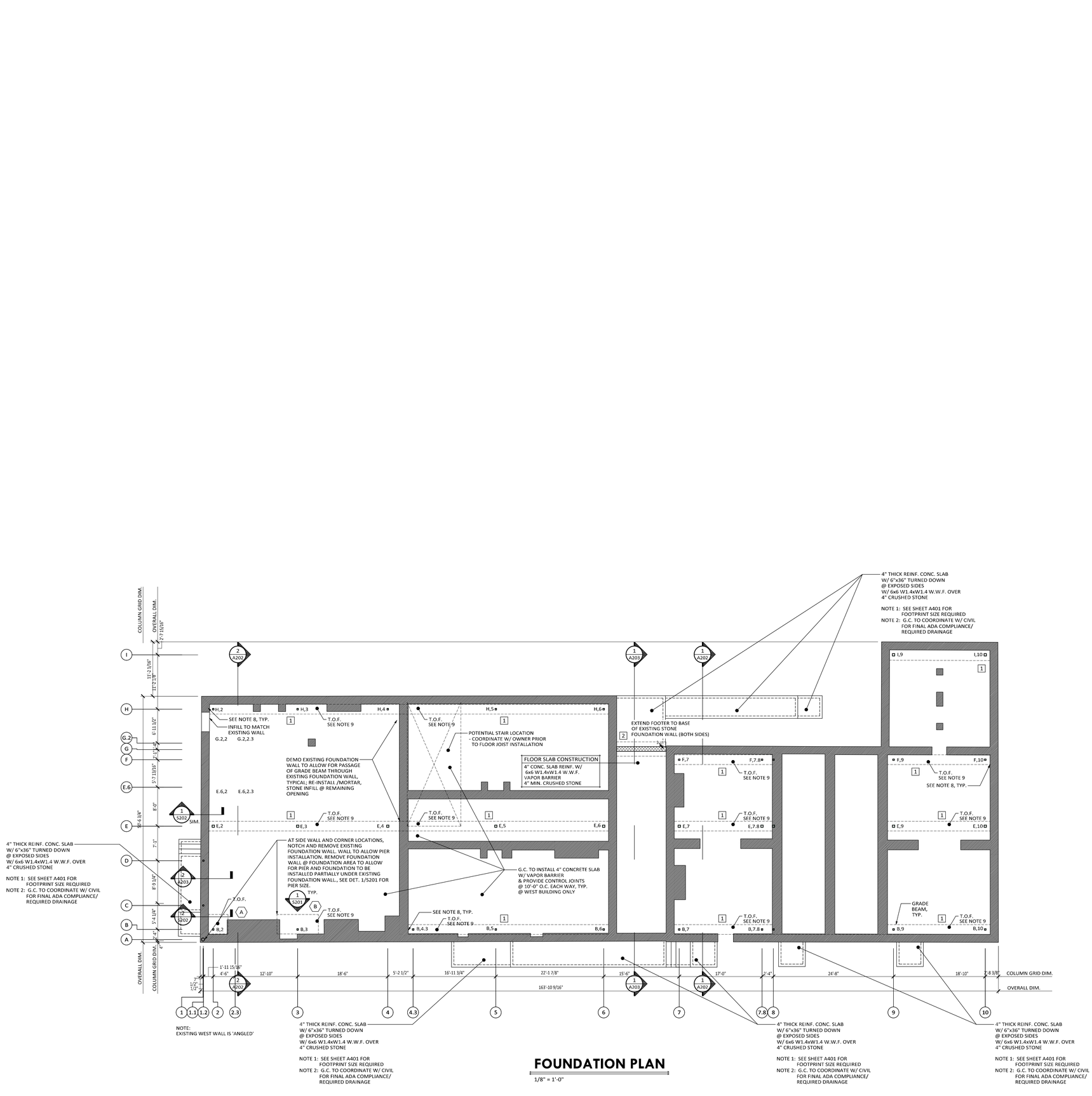
Mercersburg, Pennsylvania 17236

Drawing Title:
ATTIC
STRUCTURAL
DEMO PLAN

Sheet No.
S003

Date: 04/13/2022



FOUNDATION NOTES:

1. REMOVE AND REPLACE ANY DETERIORATED STONE MORTAR. TUCK POINTING OF MORTAR SHALL BE PERFORMED WITH MATCHING MORTAR. CARE SHALL BE EXERCISED AS TO NOT DAMAGE EXISTING STONE.

2. REMOVE AND REPLACE ANY BROKEN, CRACKED OR ERODED STONE.

3. ANY OPENINGS THAT WILL BE INFILLED SHOULD BE DONE WITH STONE THAT WILL HAVE THE SAME COMPRESSIVE STRENGTH AS THE EXISTING STONE. INFILLED OPENING SHOULD BE TOOTHED WITH THE EXISTING WALL.

4. DELAMINATED WYTHES OF STONE ARE TO BE REMOVED AND REINSTALLED WITH PROPER MORTAR TYING THE WYTHES TOGETHER. EXTERIOR/INTERIOR CONCEALED STONE TIES ARE AN OPTION FOR STONE WYTHE INTERCONNECTION.

5, INSTALLATION OF NEW FLOOR FRAMING SHALL BE PERFORMED IN SUCH A MANOR AS TO NOT ADVERSELY IMPOSE FORCES INTO THE EXTERIOR STONE WALLS.

6. THE EXISTING BUILDING STABILITY SHALL BE MAINTAINED DURING CONSTRUCTION WORK.

7. SUPPLEMENTAL SHORING OF THE BUILDING AND FRAMING SYSTEMS SHALL BE PROVIDED AS REQUIRED.

8. EXTEND FOOTING 18" FROM COLUMN CENTERLINE & POCKET FOOTING AS NECESSARY INTO ADJACENT EXISTING STONE FOUNDATION.

9. G.C. TO PLACE BOTTOM OF FOUNDATION/GRADE BEAM TO BEAR ON SUITABLE SUBGRADE THAT WILL PROVIDE THE MINIMUM BEARING CAPACITY AS LISTED ON DRAWING S000. GRADE BEAM SECTIONS TOP ELEVATION SHALL BE INSTALLED LEVEL, BOTTOM ELEVATION CAN BE LARGER/DEEPER THAN SCHEDULED DEPTH AS LONG AS DIMENSIONS LISTED ARE MAINTAINED. STEEL COLUMN LENGTHS TO BE ADJUSTED ACCORDINGLY.

4" THICK REINF. CONC. SLAB
W/ 6"x36" TURNED DOWN
@ EXPOSED SIDES
W/ 6x6 W1.4xW1.4 W.W.F. OVER
4" CRUSHED STONE

NOTE 1: SEE SHEET A401 FOR FOOTPRINT SIZE REQUIRED
NOTE 2: G.C. TO COORDINATE W/ CIVIL FOR FINAL ADA COMPLIANCE/ REQUIRED DRAINAGE

DEMO EXISTING FOUNDATION WALL TO ALLOW FOR PASSAGE OF GRADE BEAM THROUGH EXISTING FOUNDATION WALL, TYPICAL; RE-INSTALL /MORTAR, STONE INFILL @ REMAINING OPENING

AT SIDE WALL AND CORNER LOCATIONS, NOTCH AND REMOVE EXISTING FOUNDATION WALL. WALL TO ALLOW PIER INSTALLATION. REMOVE FOUNDATION WALL @ FOUNDATION AREA TO ALLOW FOR PIER AND FOUNDATION TO BE INSTALLED PARTIALLY UNDER EXISTING FOUNDATION WALL., SEE DET. 1/S201 FOR PIER SIZE.

POTENTIAL STAIR LOCATION
- COORDINATE W/ OWNER PRIOR TO FLOOR JOIST INSTALLATION

FLOOR SLAB CONSTRUCTION
4" CONC. SLAB REINF. W/ 6x6 W1.4xW1.4 W.W.F. VAPOR BARRIER 4" MIN. CRUSHED STONE

G.C. TO INSTALL 4" CONCRETE SLAB W/ VAPOR BARRIER & PROVIDE CONTROL JOINTS @ 10'-0" O.C. EACH WAY, TYP. @ WEST BUILDING ONLY

EXTEND FOOTER TO BASE OF EXISTING STONE FOUNDATION WALL (BOTH SIDES)

4" THICK REINF. CONC. SLAB
W/ 6"x36" TURNED DOWN
@ EXPOSED SIDES
W/ 6x6 W1.4xW1.4 W.W.F. OVER
4" CRUSHED STONE

NOTE 1: SEE SHEET A401 FOR FOOTPRINT SIZE REQUIRED
NOTE 2: G.C. TO COORDINATE W/ CIVIL FOR FINAL ADA COMPLIANCE/ REQUIRED DRAINAGE

NOTE:
EXISTING WEST WALL IS 'ANGLED'

4" THICK REINF. CONC. SLAB
W/ 6"x36" TURNED DOWN
@ EXPOSED SIDES
W/ 6x6 W1.4xW1.4 W.W.F. OVER
4" CRUSHED STONE

NOTE 1: SEE SHEET A401 FOR FOOTPRINT SIZE REQUIRED
NOTE 2: G.C. TO COORDINATE W/ CIVIL FOR FINAL ADA COMPLIANCE/ REQUIRED DRAINAGE

4" THICK REINF. CONC. SLAB
W/ 6"x36" TURNED DOWN
@ EXPOSED SIDES
W/ 6x6 W1.4xW1.4 W.W.F. OVER
4" CRUSHED STONE

NOTE 1: SEE SHEET A401 FOR FOOTPRINT SIZE REQUIRED
NOTE 2: G.C. TO COORDINATE W/ CIVIL FOR FINAL ADA COMPLIANCE/ REQUIRED DRAINAGE

4" THICK REINF. CONC. SLAB
W/ 6"x36" TURNED DOWN
@ EXPOSED SIDES
W/ 6x6 W1.4xW1.4 W.W.F. OVER
4" CRUSHED STONE

NOTE 1: SEE SHEET A401 FOR FOOTPRINT SIZE REQUIRED
NOTE 2: G.C. TO COORDINATE W/ CIVIL FOR FINAL ADA COMPLIANCE/ REQUIRED DRAINAGE

FOUNDATION PLAN

1/8" = 1'-0"

Job No: 2140
Drawn: T. Parson
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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Drawing Title:
FOUNDATION PLAN

Sheet No.
S101

Date: 04/13/2022

FRAMING NOTES:

1. REMOVE AND REPLACE ANY DETERIORATED BRICK MORTAR. TUCK POINTING OF MORTAR SHALL BE PERFORMED WITH MATCHING MORTAR. CARE SHALL BE EXERCISED AS TO NOT DAMAGE EXISTING BRICK.

2. REMOVE AND REPLACE ANY BROKEN, CRACKED OR ERODED BRICK.

3. ANY OPENINGS THAT WILL BE INFILLED SHOULD BE DONE WITH BRICK THAT WILL BE HAVE THE SAME COMPRESSIVE STRENGTH AS THE EXISTING BRICK. INFILLED OPENING SHOULD BE TOOTHED WITH THE EXISTING WALL.

4. DELAMINATED WYTHES OF BRICK ARE TO BE REMOVED AND REINSTALLED WITH PROPER MORTAR TYING THE WYTHES TOGETHER. EXTERIOR/INTERIOR CONCEALED BRICK TIES ARE AN OPTION FOR BRICK WYTHE INTERCONNECTION.

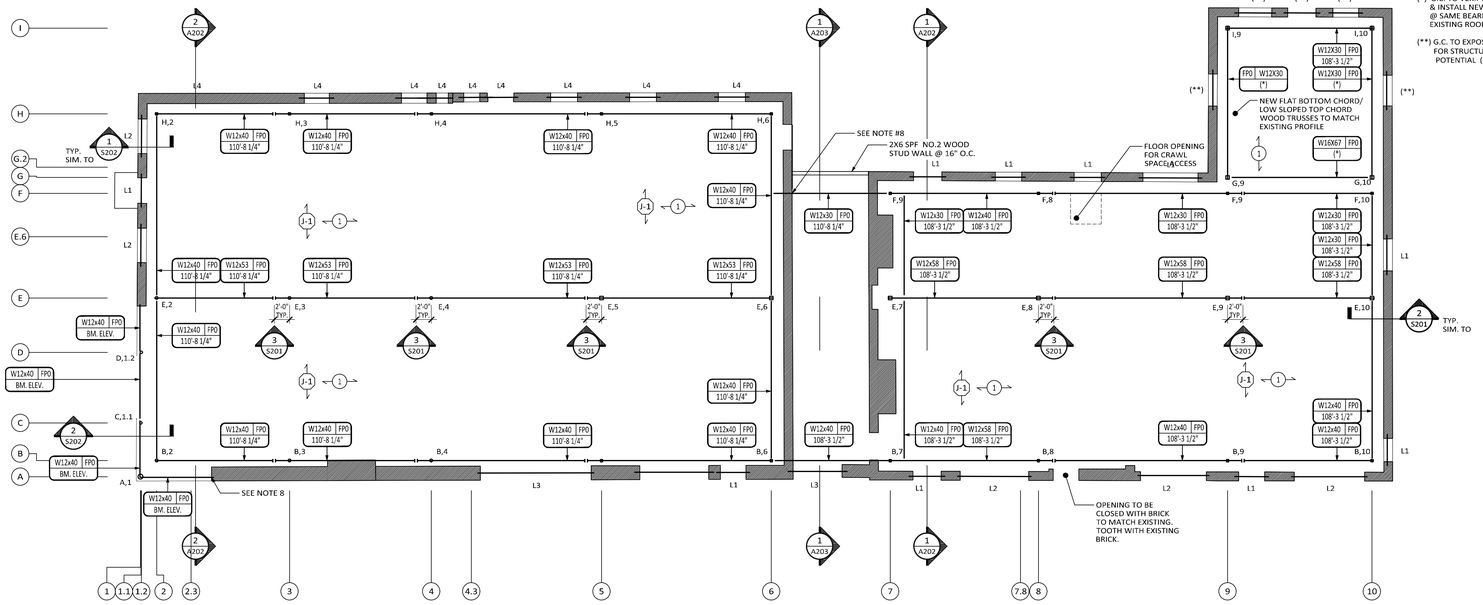
5, INSTALLATION OF NEW FLOOR FRAMING SHALL BE PERFORMED IN SUCH A MANOR AS TO NOT ADVERSELY IMPOSE FORCES INTO THE EXTERIOR BRICK WALLS.

6. THE EXISTING BUILDING STABILITY SHALL BE MAINTAINED DURING CONSTRUCTION WORK.

7. SUPPLEMENTAL SHORING OF THE BUILDING AND FRAMING SYSTEMS SHALL BE PROVIDED AS REQUIRED.

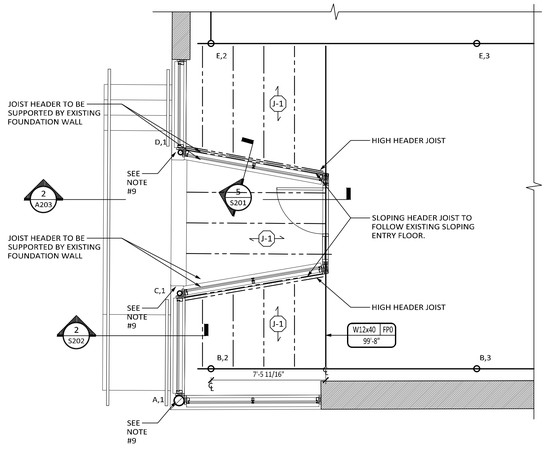
8. POCKET BEAM 8" INTO EXISTING BRICK WALL. PROVIDE GROUTED BEARING AND GROUT PACK VOID FROM INSTALL.

9. DRILL AND EPOXY ANCHOR BOLTS INTO EXISTING STONE FOUNDATION WALL. PROVIDE NON-SHRINK GROUT UNDER BASE PLATE.



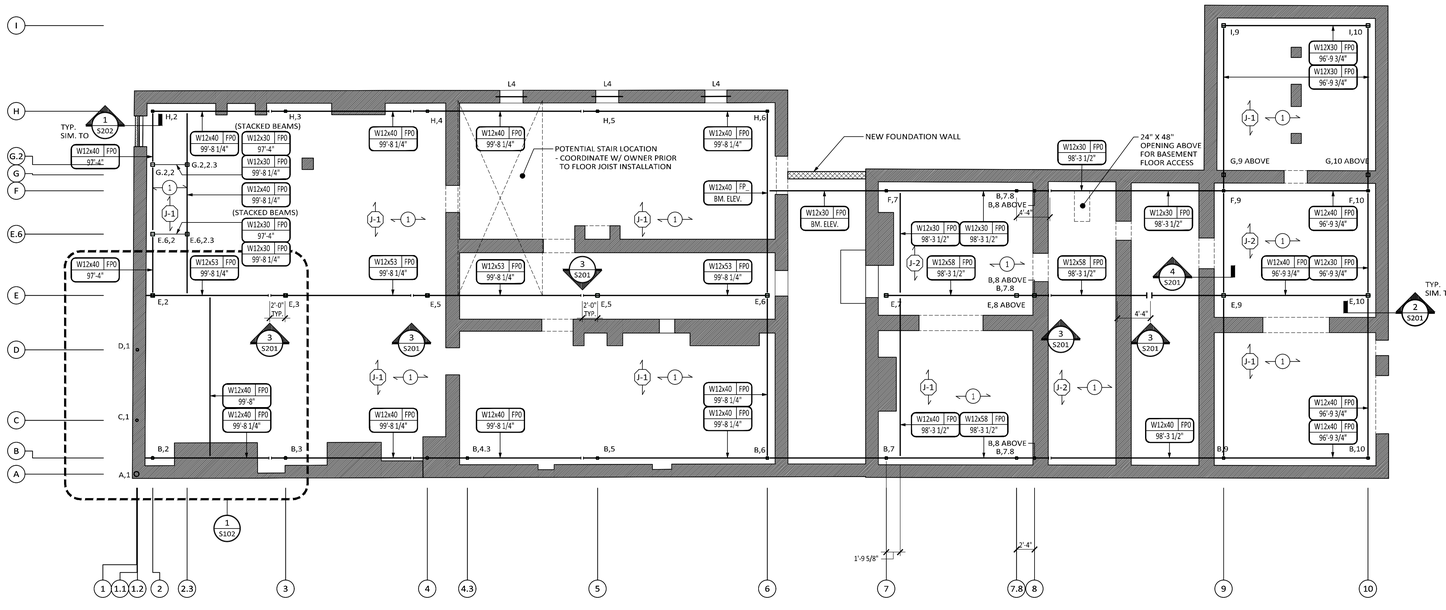
SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"



1 S102 ENLARGED ENTRY FRAMING PLAN

1/4" = 1'-0"



FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

Job No: 2140
Drawn: T. Parson
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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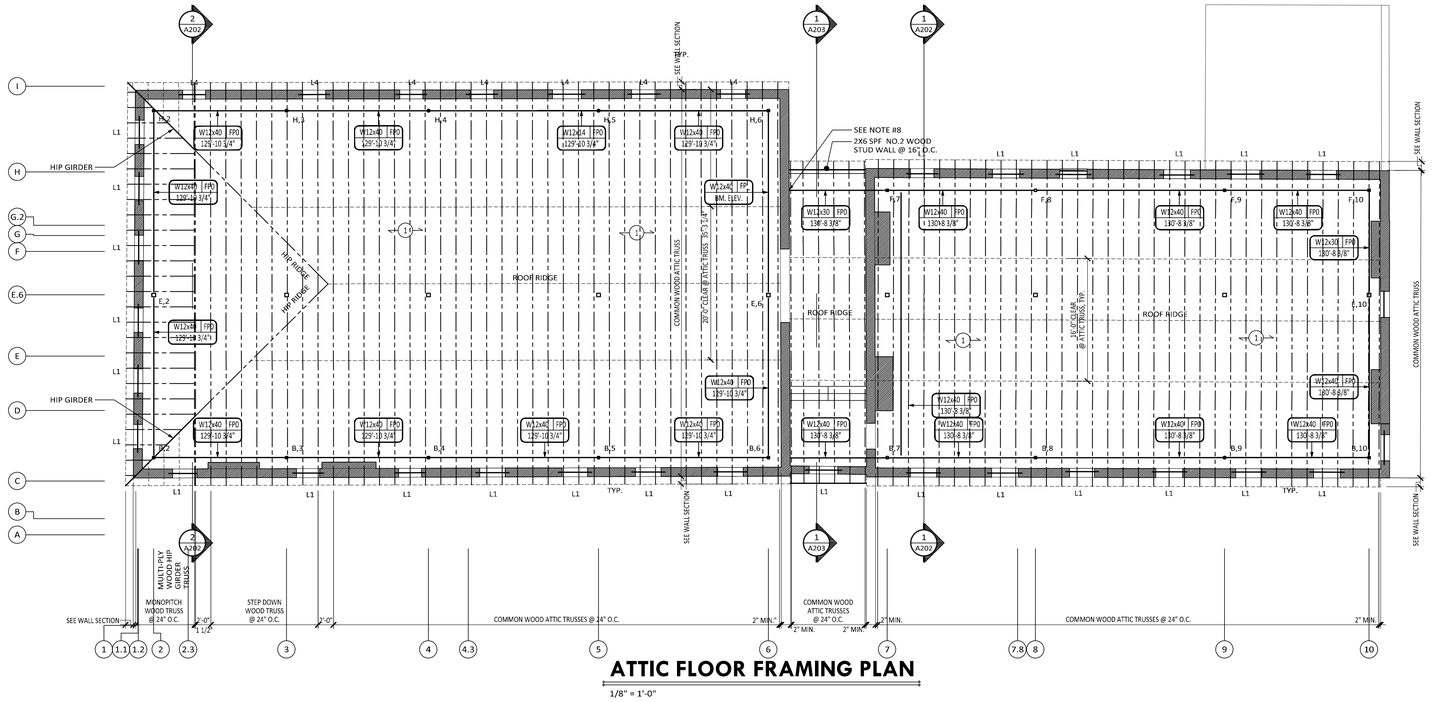
Drawing Title:
FIRST AND SECOND FLOOR FRAMING PLANS

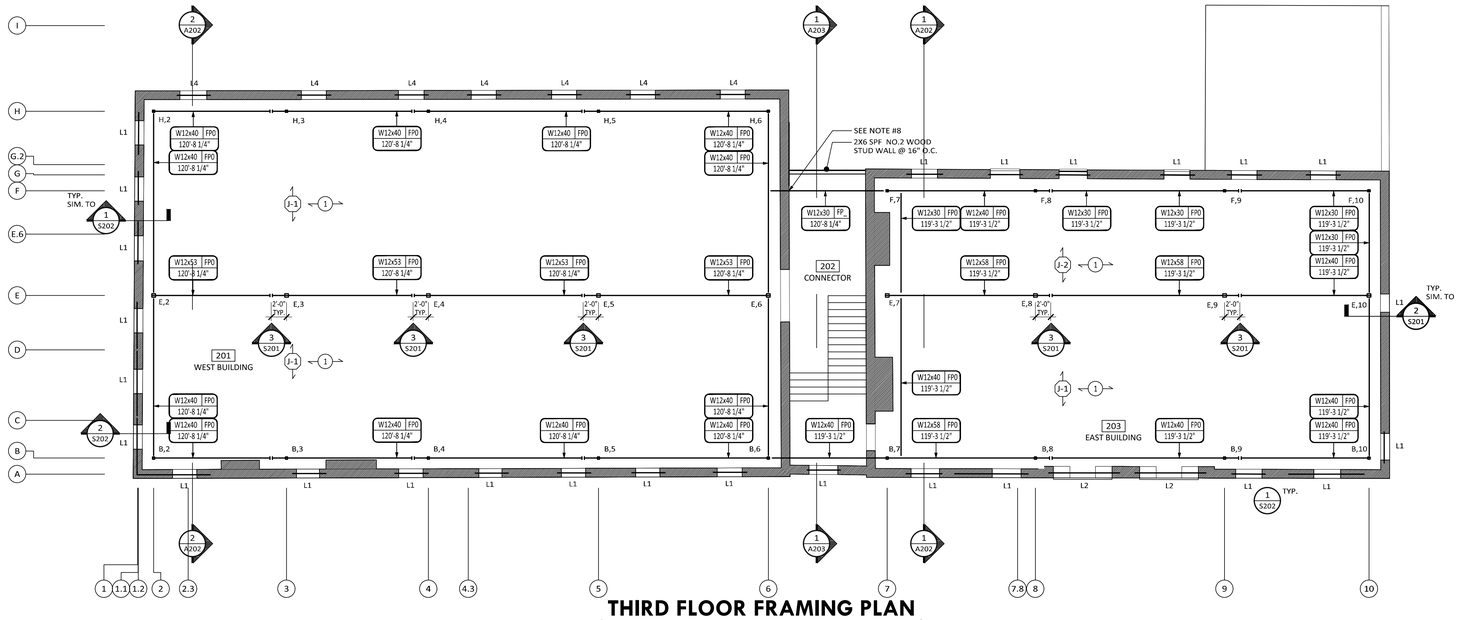
Sheet No.
S102

Date: 04/13/2022



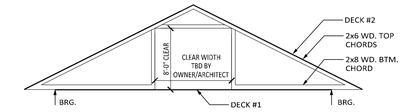
ATTIC FLOOR FRAMING PLAN

1/8" = 1'-0"



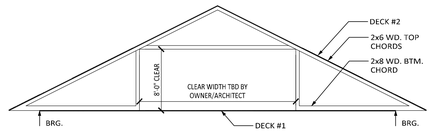
THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"



ATTIC WD ROOF TRUSS #2

1/8" = 1'-0" @ CONNECTOR & @ EAST BUILDING



ATTIC WD ROOF TRUSS #1

1/8" = 1'-0" @ WEST BUILDING

TRUSS DESIGN CRITERIA

TRUSSED ROOF LOADING:

TOP CHORD LIVE LOAD	30 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD LIVE LOAD	10 PSF @ ATTIC AREA
BOTTOM CHORD DEAD LOAD	10 PSF
TOTAL LOAD	60 PSF

TRUSSED ROOF NOTES:

SUBMIT STAMPED SHOP DRAWING, (NY STATE REGISTERED ENGINEER) OF ALL TRUSS TYPES FOR ARCHITECTS APPROVAL PRIOR TO FABRICATION. ERECT, BRACE AND ANCHOR IN ACCORDANCE WITH T.P.I. PROCEDURES AND PRACTICE. TRUSS MEMBER SIZE, SPECIES, GRADE AND WEB CONFIGURATION BY MANUFACTURER. MAINTAIN ARCHITECTURAL PROFILES AS SHOWN.

TRUSS LAYOUT ON THE ROOF FRAMING PLAN IS A REPRESENTATION OF THE DESIGN INTENT. NO WOOD TRUSSES OR TRUSS GIRDERS HAVE BEEN DESIGNED. IF TRUSS, GIRDER TRUSS, AND/OR TRUSS BEARING SUPPORTS NEED ADJUSTED OR ADDED, THE TRUSS MANUFACTURER MUST IDENTIFY DURING THE BIDDING PHASE.

ADDITIONAL LOADS OTHER THAN LISTED ABOVE HAVE BEEN NOTED ON PLAN AND ARE TO BE SUPPORTED BY TRUSS FRAMING.

ALL WEB CONFIGURATIONS OF TRUSSES ARE TO BE COORDINATED WITH MECHANICAL UNITS LOCATED IN ATTIC SPACE. PROVIDE MINIMUM CLEARANCES AS REQUIRED BY MANUFACTURER AROUND UNIT.

FRAMING NOTES:

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8. POCKET BEAM 8" INTO EXISTING BRICK WALL. PROVIDE GROUTED BEARING AND GROUT PACK VOID FROM INSTALL.

9. DRILL AND EPOXY ANCHOR BOLTS INTO EXISTING STONE FOUNDATION WALL. PROVIDE NON-SHRINK GROUT UNDER BASE PLATE.

TRUE NORTH

PROJECT NORTH

Job No:	2140
Drawn:	T. Parson
Checked:	

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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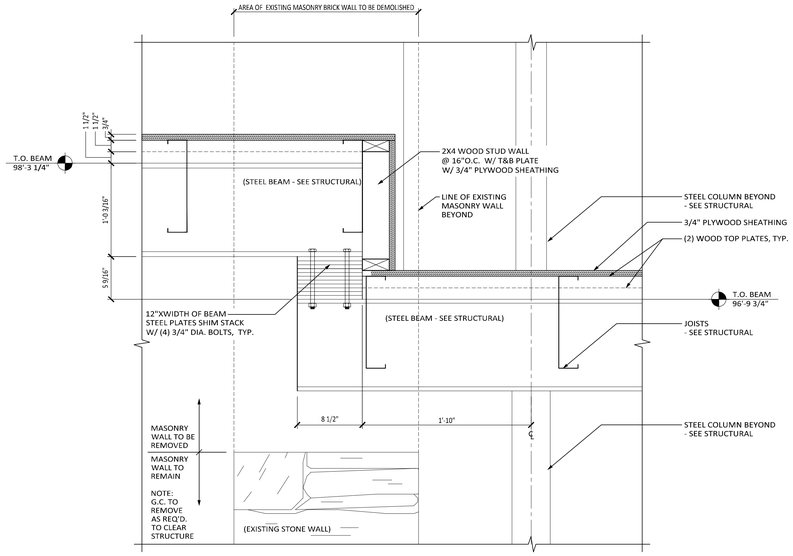
Drawing Title:
THIRD FLOOR AND ROOF TRUSS FRAMING PLANS

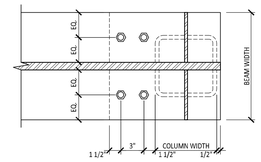
Sheet No.
S103

Date: 04/13/2022



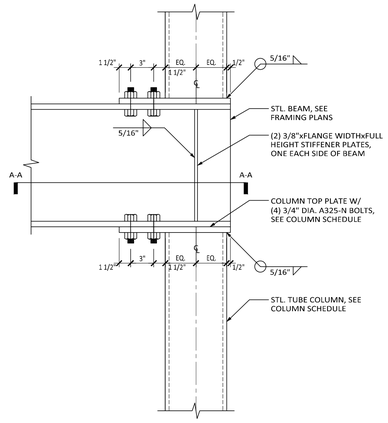
4 S201 **STEP DETAIL**

1 1/2" = 1'-0"



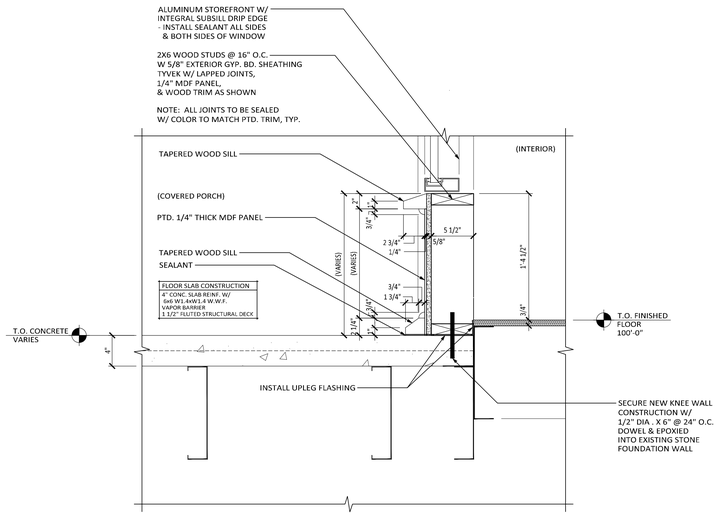
SECTION A-A

1 1/2" = 1'-0"



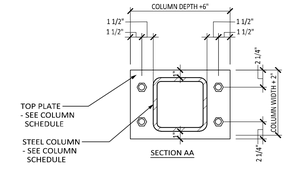
02 S201 **BEAM TO COLUMN CONN.**

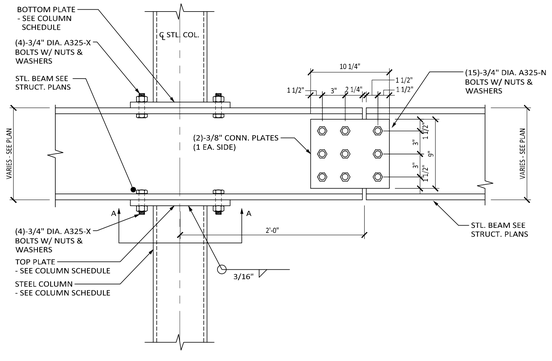
1 1/2" = 1'-0"



5 S201 **PORCH DETAIL**

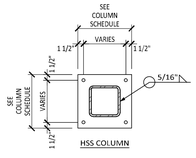
1 1/2" = 1'-0"





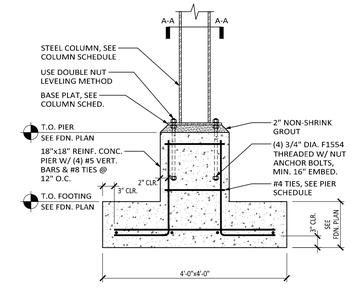
3 S201 **BEAM TO BEAM CONN. @ COLUMN**

1 1/2" = 1'-0"



ANCHOR BOLT PATTERN

3/4" = 1'-0"



1 S201 **TYP. COLUMN FOUNDATION**

3/4" = 1'-0"

Job No: 2140
Drawn: S. Dobbins
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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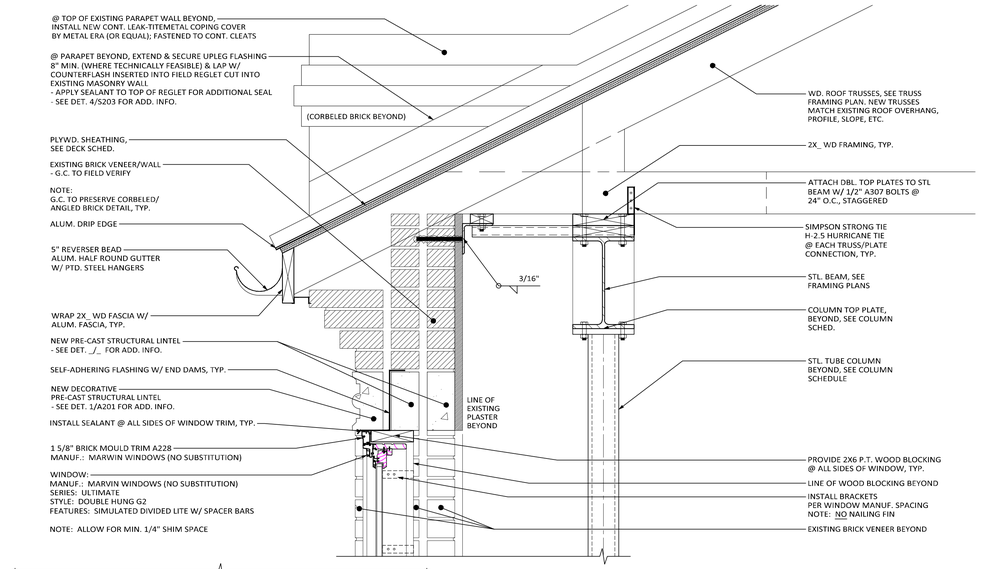
13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
STRUCTURAL
DETAILS

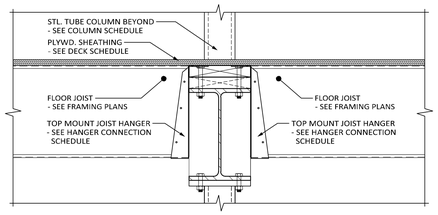
Sheet No.
S201

Date: 04/13/2022



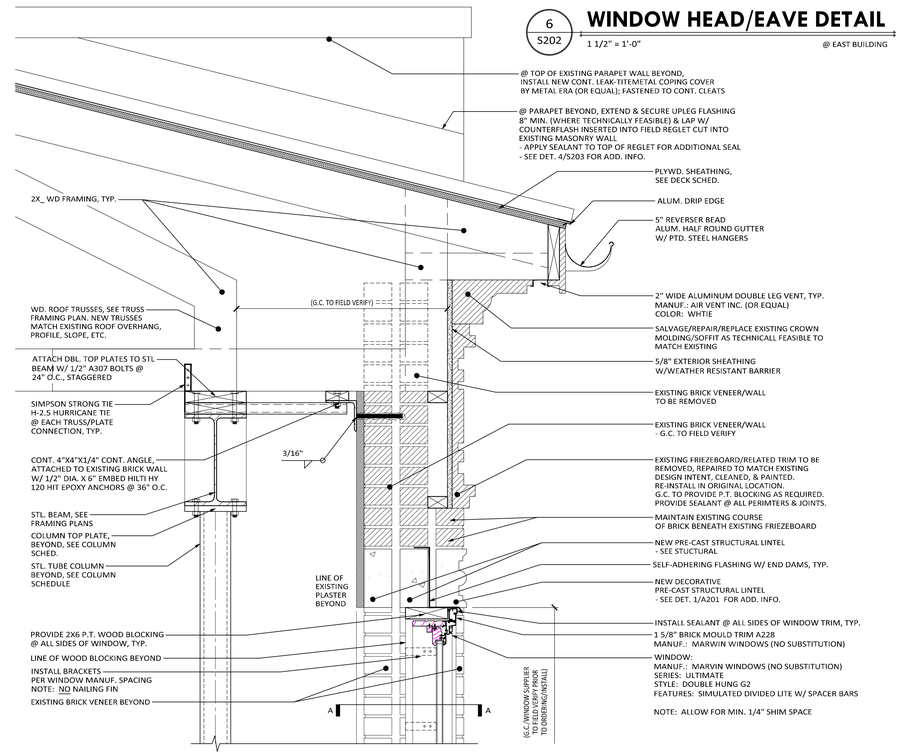
8 S202 WINDOW HEAD/ROOF EAVE DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



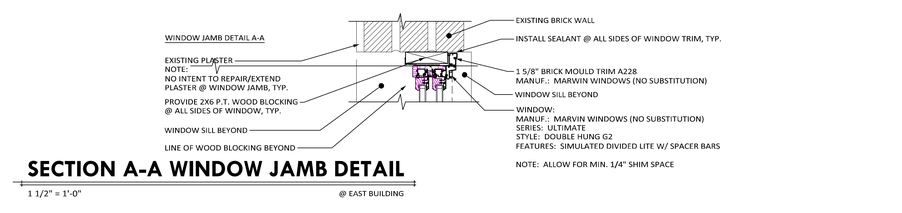
7 S202 CENTRAL BEAM/JOIST DETAIL

1 1/2" = 1'-0" @ EAST/WEST BUILDING @ ALL FLOORS



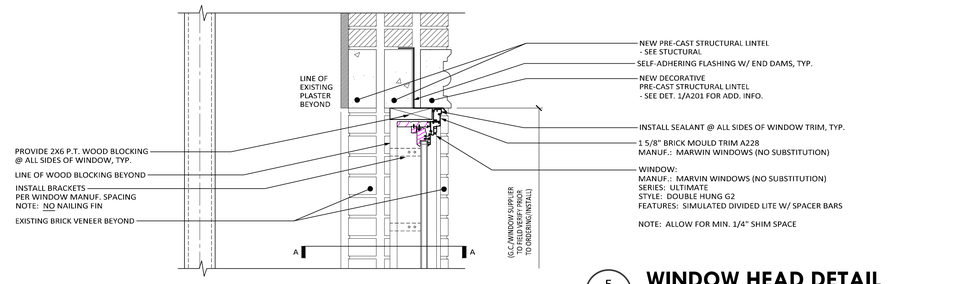
6 S202 WINDOW HEAD/EAVE DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



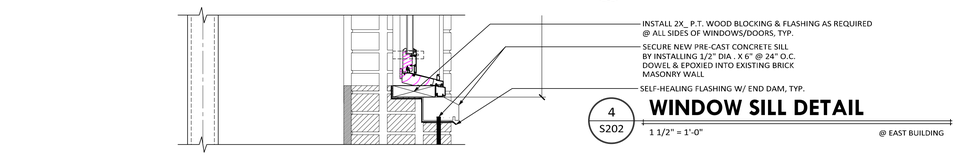
SECTION A-A WINDOW JAMB DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



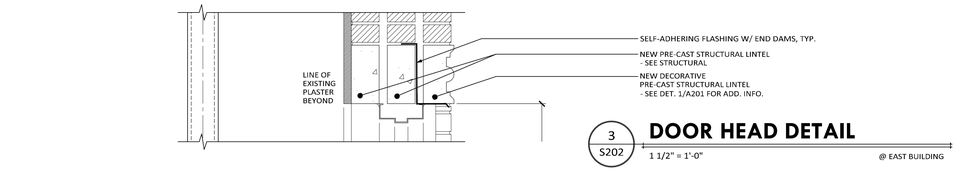
5 S202 WINDOW HEAD DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



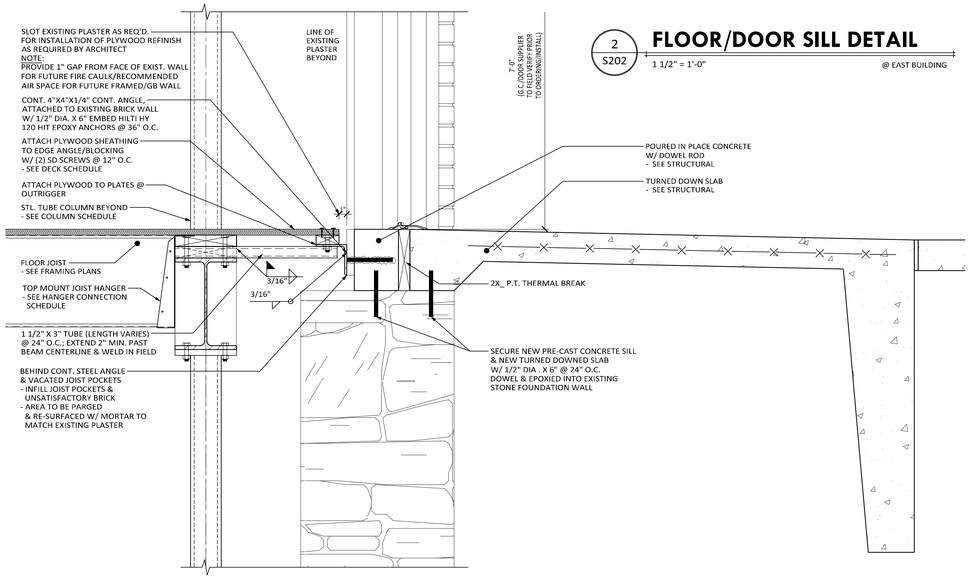
4 S202 WINDOW SILL DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



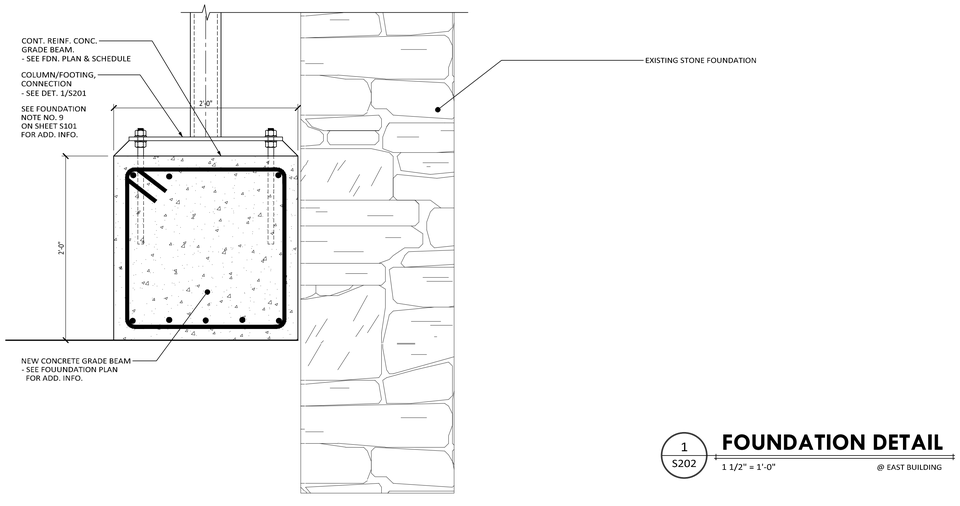
3 S202 DOOR HEAD DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



2 S202 FLOOR/DOOR SILL DETAIL

1 1/2" = 1'-0" @ EAST BUILDING



1 S202 FOUNDATION DETAIL

1 1/2" = 1'-0" @ EAST BUILDING

Job No: 2140
Drawn: T. Parson
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
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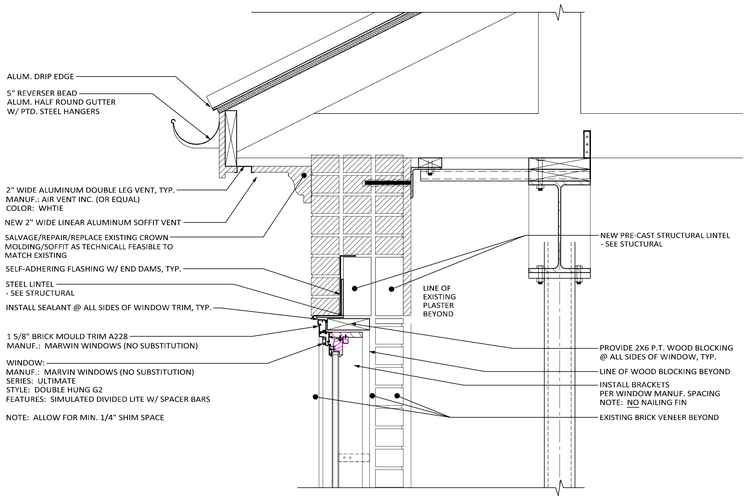
Mercersburg, Pennsylvania 17236

Drawing Title:
STRUCTURAL WALL SECTION

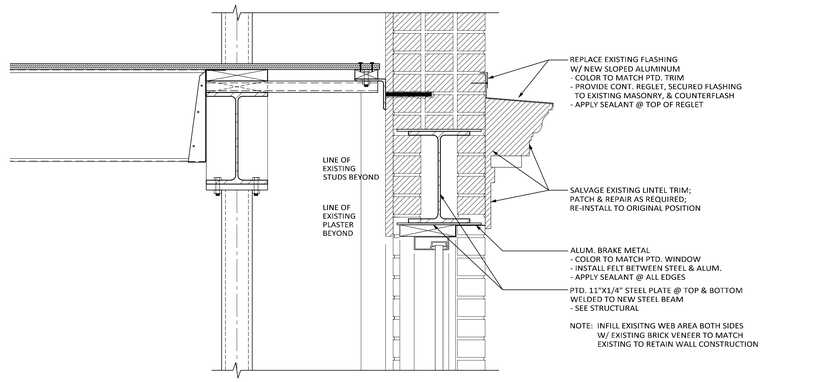
Sheet No.
S202

Date: 04/13/2022



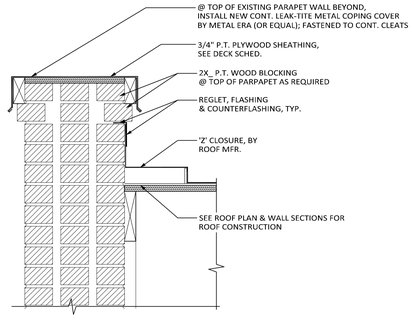
3 S203 **WINDOW HEAD DETAIL**

1 1/2" = 1'-0" @ WEST BUILDING



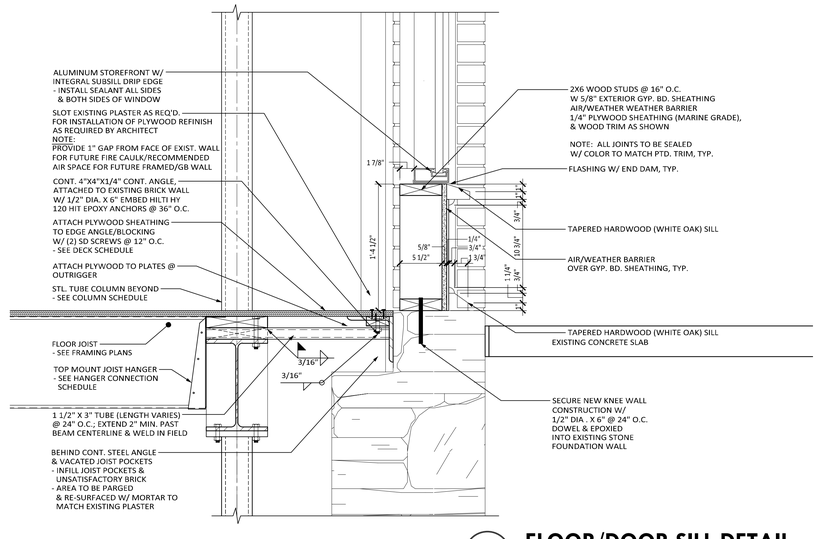
2 S203 **WINDOW HEAD DETAIL**

1 1/2" = 1'-0" @ WEST BUILDING



4 S203 **TYP. PARAPET DETAIL**

1 1/2" = 1'-0" CHIMNEY WALL SIM.



1 S203 **FLOOR/DOOR SILL DETAIL**

1 1/2" = 1'-0" @ WEST BUILDING

Job No: 2140
Drawn:
Checked:

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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Mercersburg, Pennsylvania 17236

Drawing Title:
STRUCTURAL
WALL SECTION

Sheet No.
S203

Date: 04/13/2022

STRUCTURAL STEEL COLUMN SCHEDULE (CONT.)

COLUMN LOACATION	H,3	H,4	H,5	H,6	I,9	I,10
CAP PLATE SIZE	1/2"x10"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH
BUILDING FLOOR LEVELS: ROOF LEVEL						
THIRD FLOOR	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"		
SECOND FLOOR	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"		
FIRST FLOOR	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"
BASEMENT FLOOR	HSS 4"x4" x1/4"	HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 4"x4" x1/4"	HSS 4"x4" x1/4"	HSS 4"x4" x1/4"
BASE PLATE SIZE	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"
BASE PLATE BOTT. ELEV.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.
COLUMN FIREPROOFING	FPO	FPO	FPO	FPO	FPO	FPO

STRUCTURAL STEEL COLUMN SCHEDULE

COLUMN LOACATION	A,1	B,2	B,3	B,4	B,4.3	B,5	B,6	B,7	B7.8	B,8	B,9	B,10	C,1	D,1	E,2	E,3	E,4	E,5	E,6	E.6,2	E.6,2.3	E,7.8	E,8	E,9	E,10	F,7	F,7.8	F,8	F,9	F,10	G.2,2	G.2,2.3	G,9	G,10	H,2
CAP PLATE SIZE	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x10"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x12"x BM. WIDTH	1/2"x10"x BM. WIDTH
BUILDING FLOOR LEVELS: ROOF LEVEL																																		
THIRD FLOOR		HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"			HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"						HSS 4"x4"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"					HSS 4"x4"x1/4"
SECOND FLOOR		HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"			HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"				HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"					HSS 4"x4"x1/4"
FIRST FLOOR	HSS 8" ROUND x 0.250"	HSS 5" ROUND x 0.375"	HSS 5" ROUND x 0.375"	HSS 5" ROUND x 0.375"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"		HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 4" ROUND x 0.250"	HSS 4" ROUND x 0.250"	HSS 5" ROUND x 0.375"	HSS 5" ROUND x 0.375"	HSS 5" ROUND x 0.375"	HSS 5"x5"x1/4"	HSS 5"x5"x1/4"				HSS 5"x5"x1/4"	HSS 5"x5"x1/4"				HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"	HSS 4"x4"x1/4"			HSS 5"x5"x1/4"	HSS 5"x5"x1/4"	HSS 4"x4"x1/4"
BASEMENT FLOOR		HSS 4"x4" x3/8"	HSS 4"x4" x3/8"		HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 4"x4" x1/4"	HSS 4"x4" x1/4"	HSS 5"x5" x1/4"		HSS 4"x4" x1/4"	HSS 4"x4" x1/4"			HSS 4"x4" x1/4"	HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 3"x3" x1/4"	HSS 3"x3" x1/4"	HSS 5"x5" x1/4"		HSS 5"x5" x1/4"	HSS 4"x4" x1/4"	HSS 4"x4" x1/4"	HSS 5"x5" x1/4"	HSS 5"x5" x1/4"	HSS 3"x3" x1/4"	HSS 3"x3" x1/2"		HSS 5"x5"x1/4"		HSS 4"x4" x1/4"
BASE PLATE SIZE	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x10"x10"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x10"x10"	3/4"x10"x10"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x10"x10"	3/4"x10"x10"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x12"x12"	3/4"x10"x10"
BASE PLATE BOTT. ELEV.	99'-0"	2" OVER T.O. FND.	2" OVER T.O. FND.	T.O. BEAM	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	T.O. BEAM	2" OVER T.O. FND.	2" OVER T.O. FND.	99'-0"	99'-0"	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	T.O. BEAM	T.O. BEAM	2" OVER T.O. FND.	T.O. BEAM	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	T.O. BEAM	2" OVER T.O. FND.	2" OVER T.O. FND.	2" OVER T.O. FND.	T.O. BEAM	T.O. BEAM	T.O. BEAM	T.O. BEAM	2" OVER T.O. FND.
COLUMN FIREPROOFING	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO	FPO

JOIST SCHEDULE

TAG	DESCRIPTION	REMARKS	ASSEMBLY
J-1	1200S250-97, 50 KSI @ 16" O.C.	PROVIDE BRIDGING @ 8'-0" O.C. MAX. SPACING	-
J-2	1200S250-68, 50 KSI @ 16" O.C.	PROVIDE BRIDGING @ 8'-0" O.C. MAX. SPACING	-

HANGER CONNECTION SCHEDULE

JOIST	'SIMPSON' HANGER	FASTENERS	REMARKS
J-1	S/LBV 2.56/12 TOP MOUNT	(4)-16d x 1 1/2" TO WD. TOP PLATE (4)-16d x 1 1/2" TO FACE (3)-#10 TEK SCREWS	MTL. JOIST TO STL. BEAM TOP PLATES
J-2	S/LBV 2.56/12 TOP MOUNT	(4)-16d x 1 1/2" TO WD. TOP PLATE (4)-16d x 1 1/2" TO FACE (3)-#10 TEK SCREWS	MTL. JOIST TO STL. BEAM TOP PLATES

DECK SCHEDULE

TAG	DESCRIPTION	REMARKS
1	3/4" T&G PLYWOOD SHEATHING	ATTACH TO JOIST W/ # 12 TEK SCREWS @ 12" O.C. IN FIELD AND @ 16" O.C. AT EDGE
2	5/8" PLYWOOD SHEATHING W/ CLIPS	ATTACH TO TRUSSES W/ 8D NAILS @ 12" O.C. IN FIELD AND @ 16" O.C. AT EDGE

FOUNDATION WALL/FOOTING SCHEDULE

TAG	FOUNDATION WALL	FOOTING	REMARKS
1	-	CONTINUOUS 24"x24" CONC. GRADE BEAM REINF. W/ (5)-#5 BARS CONT. TOP AND BOTTOM, AND #4 CLOSED TIES @ 12" O.C.	-
2	12" CMU WALL W/ #5 @ 24" O.C. VERTICAL BARS IN GROUTED CORES, HORIZONTAL JOINT REINFORCEMENT @ 16" O.C.	12"x24" FOOTING W/ (3)-#4 AND #4 @ 12"O.C. TRANSVERSE BARS	-

ISOLATED FOOTING SCHEDULE

TAG	ISOLATED FOOTING	REMARKS
A	4'-0"x4'-0"x12" REINFORCED CONC. FTG. W/ (5)-#5 BARS E.W.	-
B	4'-0"x8'-6"x12" REINFORCED CONC. FTG. W/ (5) #5 BARS LONG. AND #5 BARS @ 12" O.C. TRANSVERSE	-

LINTEL SCHEDULE

TAG	EXTERIOR PLY	INTERIOR PLYS	REMARKS
L1	3 1/2" x 8" HIGH PRECAST CONCRETE. MATCH EXISTING BEARING LENGTH	(2) 3 1/2" x 7 5/8" MASONRY PRECAST LINTELS W/ (1) #4 BAR TOP AND BOTTOM	MATCH EXISTING EXTERIOR LINTEL DETAILING
L2	3 1/2" x 8" HIGH PRECAST CONCRETE. MATCH EXISTING BEARING LENGTH	(2) 3 1/2" x 7 5/8" MASONRY PRECAST LINTELS W/ (1) #5 BAR TOP AND BOTTOM	MATCH EXISTING EXTERIOR LINTEL DETAILING
L3	3 1/2" x 8" HIGH PRECAST CONCRETE. MATCH EXISTING BEARING LENGTH	HSS 6 x 8 x 3/8 W/ 8" BEARING. PROVIDE MECHANICAL CONNECTION BETWEEN PRECAST LINTEL AND STL TUBE	MATCH EXISTING EXTERIOR LINTEL DETAILING
L4	BRICK ANGLE ON 5" X 3 1/2" X 1/4" LLV	(2) 3 1/2" x 7 5/8" MASONRY PRECAST LINTELS W/ (1) #4 BAR TOP AND BOTTOM	MATCH EXISTING EXTERIOR LINTEL DETAILING

Job No: 2140
Drawn: T. Parson
Checked:

Revisions:

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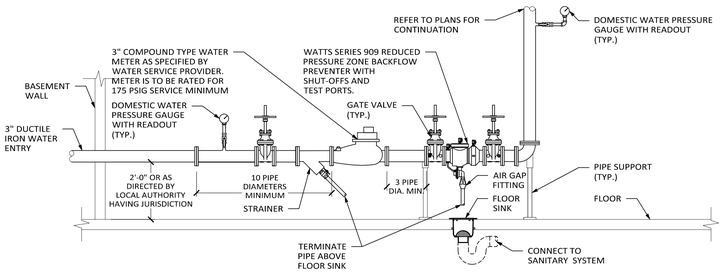
Drawing Title:
STRUCTURAL SCHEDULES AND NOTES

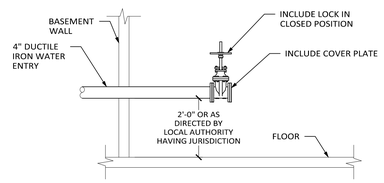
Sheet No.
S301

Date: 04/13/2022



DOMESTIC WATER ENTRY DETAIL

NOT TO SCALE



FIRE PROTECTION WATER ENTRY DETAIL

NOT TO SCALE

NATURAL GAS LOAD SUMMARY

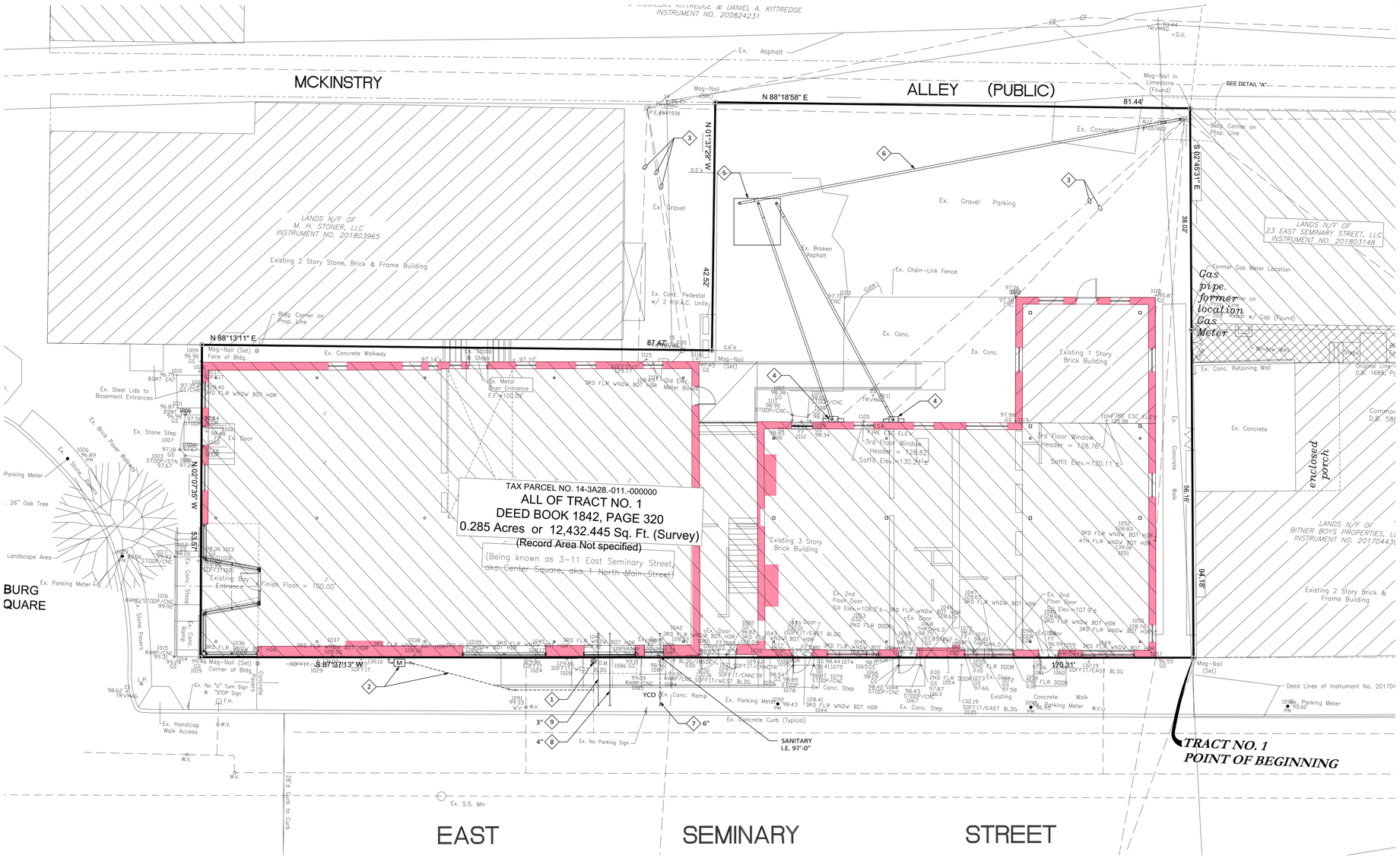
UNIT ID	COUNT	INPUT	UNIT LOAD (MBH)	REMARKS
FURNACE	1	150	150	–
WATER HEATER	1	199	199	–
FURNACE	1	150	150	FUTURE PHASE 2
WATER HEATER	1	199	199	FUTURE PHASE 2
–	0	0	0	–
–	0	0	0	–
–	0	0	0	–
–	0	0	0	–
–	0	0	0	–
		BUILDING TOTAL	698	@ 14" OF WATER COLUMN DOWNSTREAM OF METER

UTILITIES GENERAL NOTES

A	THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE COMPLETE UTILITY SYSTEMS PER APPLICABLE CODES. INCLUDE ALL REQUIRED COMPONENTS AND MATERIALS REQUIRED BY LOCAL UTILITIES. COORDINATE WITH LOCAL UTILITIES PRIOR TO STARTING WORK.
B	PROVIDE COMPLETE AND WORKING UTILITY SYSTEMS PER SPECIFICATIONS AND ALL APPLICABLE CODES.
C	PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEAN-OUTS INSTALLED IN STORMWATER, WASTE, AND VENT PIPING.
D	MINIMUM UNDERGROUND WASTE OR STORM PIPE SIZE SHALL BE 3", MINIMUM UNDERGROUND CONDENSATE WASTE SHALL BE 2".
E	CONTRACTORS ARE TO REVIEW ALL CONSTRUCTION DOCUMENTS AND APPLY DRAWING DETAILS TYPICALLY THROUGHOUT.
F	FIRE PROTECTION CONTRACTOR SHALL PERFORM A WATER FLOW AND PRESSURE TEST PRIOR TO FIRE PROTECTION SPRINKLER SYSTEM DESIGN. REFER TO SPECIFICATIONS FOR SYSTEM REQUIREMENTS.
G	WATER PIPE (FIRE SPRINKLER, COLD WATER ETC.) SHALL BE BURIED WITH NOT LESS THAN 4'-0" COVER. IF EXTREME FROST DEPTH EXCEEDS 3'-6" BURY PIPE 6" BELOW EXTREME FROST DEPTH.
H	GAS PIPE SHALL BE BURIED WITH NOT LESS THAN 1'-6" OF COVER.
I	BURIED ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT UNLESS CONTRACTOR HAS WRITTEN PERMISSION FROM ARCHITECT/ENGINEER. BURIED CONDUIT/CONDUCTORS SHALL BE BURIED WITH NOT LESS THAN 2'-0" OF COVER.
J	WATER HYDRANTS AND HOSE BIBS SHALL NOT BE SUPPLIED FROM THE IRRIGATION SYSTEM.
K	GAS PIPING SHALL MAINTAIN 6" OF SEPARATION FROM ANY OTHER UNDERGROUND SERVICE PIPE. GAS PIPING SHALL MAINTAIN 12" OF SEPARATION FROM ANY UNDERGROUND ELECTRICAL CONDUCTOR OR CONDUIT INCLUDING LOW VOLTAGE CONDUCTORS SUCH AS UNDERGROUND CABLE TV OR TELEPHONE.
L	ALL INVERT DEPTHS ARE GIVEN WITH RESPECT TO BASEMENT FINISHED FLOOR ELEVATION. BASEMENT FINISHED FLOOR ELEVATION IS ASSUMED TO BE 100.00', FOR BASEMENT FINISHED FLOOR ELEVATION WITH RESPECT TO SEA LEVEL REFERENCE CIVIL PLANS.

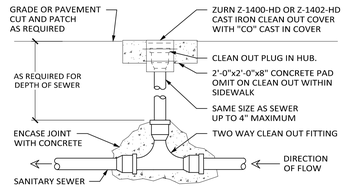
SHEET KEYED NOTES

1	REMOVE EXISTING GAS SERVICE AND PREPARE LOCATION FOR THE RELOCATION OF GAS SERVICE METER AND REGULATOR.
2	LOCATION OF NEW GAS SERVICE. MODIFY UNDERGROUND PIPING AS NECESSARY. FIELD VERIFY EXISTING CONDITIONS. COORDINATE ALL WORK WITH LOCAL UTILITIES.
3	REMOVE EXISTING OVERHEAD ELECTRICAL SERVICE AND ASSOCIATED EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS. COORDINATE ALL WORK WITH LOCAL ELECTRICAL UTILITY.
4	PROVIDE NEW UNDERGROUND ELECTRICAL SERVICE. REFER TO ADDITIONAL PLANS. COORDINATE ALL WORK WITH ELECTRICAL UTILITY.
5	PROPOSED ELECTRICAL SERVICE TRANSFORMER.
6	PROVIDED PRIMARY ELECTRICAL SERVICE CONDUIT. REFER TO ADDITIONAL DRAWINGS.
7	NEW SANITARY EXIT FROM BUILDING. COORDINATE WORK WITH CIVIL TRADES AND LOCAL UTILITY.
8	NEW SPRINKLER WATER ENTRY. TERMINATE WITH OS&Y VALVE WITH LOCK.
9	NEW DOMESTIC WATER ENTRY. REFER TO DETAILS.



UTILITIES COORDINATION PLAN

1/8" = 1'



NOTE:
LOCATE WITHIN 5'-0" OF BUILDING SANITARY SEWER EXIT. VERIFY SOIL/ROCK CONDITIONS WITH GEO-TECHNICAL REPORT OR SITE EXAMINATION. BACKFILL WITH CRUSHED ROCK TO COVER PIPE MINIMUM 6". PROVIDE EARTH BACKFILL AND COMPACTION PER ARCHITECTURAL SPECIFICATIONS. REPAIR ANY SOD AND/OR PAVEMENT TO MATCH EXISTING.

YARD CLEANOUT DETAIL

NOT TO SCALE

Job No: 2140
Drawn: SCP
Checked: SCP

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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13 East Seminary Street
Shell Renovation

Mercersburg, Pennsylvania 17236

Drawing Title:
UTILITIES COORDINATION PLAN

Sheet No.
UC101

Date: 04/13/2022

TYPICAL BRANCH CIRCUIT WIRE SIZE TABLE

BREAKER RATING (AMPS)	WIRE SIZE AND QUANTITY					CONDUIT (INCHES)
	120V-1Ø	208V-1Ø (1)	208V-3Ø	277V-1Ø	480V-3Ø	
20	2-#12, #12G	2-#12, #12G	3-#12, #12G	2-#12, #12G	3-#12, #12G	3/4
30	2-#10, #10G	2-#10, #10G	3-#10, #10G	2-#10, #10G	3-#10, #10G	3/4
40	2-#8, #10G	2-#8, #10G	3-#8, #10G	2-#8, #10G	3-#8, #10G	3/4
50	2-#8, #10G	2-#8, #10G	3-#8, #10G	2-#8, #10G	3-#8, #10G	3/4
60	2-#6, #10G	2-#6, #10G	3-#6, #10G	2-#6, #10G	3-#6, #10G	1
70	2-#4, #8G	2-#4, #8G	3-#4, #8G	2-#4, #8G	3-#4, #8G	1 1/4
80	2-#4, #8G	2-#4, #8G	3-#4, #8G	2-#4, #8G	3-#4, #8G	1 1/4
90	2-#3, #8G	2-#3, #8G	3-#3, #8G	2-#3, #8G	3-#3, #8G	1 1/4
100	2-#3, #8G	2-#3, #8G	3-#3, #8G	2-#3, #8G	3-#3, #8G	1 1/4
125	2-#1, #6G	2-#1, #6G	3-#1, #6G	2-#1, #6G	3-#1, #6G	1 1/2
150	2-1/0, #6G	2-1/0, #6G	3-1/0, #6G	2-1/0, #6G	3-1/0, #6G	2
175	2-2/0, #6G	2-2/0, #6G	3-2/03, #6G	2-2/0, #6G	3-2/03, #6G	2
FOOT NOTE (1): INCLUDE 100% SIZED NEUTRAL IF EQUIPMENT AND OR NEC REQUIRES						

GENERAL TABLE NOTES:
1. THE ABOVE WIRE AND CONDUIT SIZES ARE FOR REFERENCE ONLY.
2. THIS TABLE IS BASED ON 2014 NEC USING COPPER WIRE RATED AT 75 DEG. CELSIUS AND EMT CONDUIT.
3. FARTHEST DEVICE ON A CIRCUIT SHALL NOT EXCEED A VOLTAGE DROP OF 3%. CONTRACTOR TO INCREASE WIRE AND CONDUIT SIZE TO ACHIEVE 3% DROP OR LESS. CONTRACTOR RESPONSIBLE FOR CALCULATIONS AND MEASUREMENTS.

MOUNTING HEIGHTS

STANDARD MOUNTING HEIGHTS

4" BELOW FINISH CEILING	EXIT AND EGRESS LIGHT FIXTURES WHEN STANDARD HEIGHT AND FIXTURE IS IN CONFLICT WITH CEILING HEIGHT.
8'-6"	PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES. (UNLESS OTHERWISE NOTED)
7'-6"	TOP OF WALL MOUNTED EXIT AND EGRESS LIGHTING FIXTURES (NOT MOUNTED ABOVE DOORS)
CENTERED ABV. DOOR/WINDOW OPENING	EGRESS LIGHTING, EXIT LIGHTS, WARNING, AND SIGNALING FIXTURES/SIGNS WHEN CEILING HEIGHT IS 9'-0" OR LESS
6'-8"	ILLUMINATED FIRE SIGNALS (SEE NOTE #3)
6'-6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL PANEL BOARDS AND TELEPHONE CABINETS
6'-0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, AND CONTACTORS
4'-0"	LIGHTING SWITCHES, MANUAL MOTOR STARTERS, AND DISCONNECTS (TOP OF DEVICE)
4'-0"	FIRE ALARM PULL STATIONS THERMOSTATS, INTERCOM PHONES, CARD READERS AND FIRE ALARM REMOTE ANNUNCIATORS (TOP OF DEVICE)
3'-6"	WALL-MOUNTED TELEPHONES AND PAY STATIONS
2'-0"	ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS
18"	ELECTRICAL RECEPTACLES, TELEPHONE OUTLETS, AND VOICE/DATA
12"	GUEST ROOM RECEPTACLES, TELEPHONE OUTLETS, AND VOICE/DATA
00"	FINISHED FLOOR

CUSTOM MOUNTING HEIGHTS (APPLIES TO OTHER DEVICES NOT SHOWN HERE)

#ⁱᴳ	# DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR IN INCHES TO CENTER OF OUTLET OR BOTTOM OF LUMINAIRE
ᴬᶜ	(AC) DENOTES MOUNTING 2" TO BOTTOM OF BOX MEASURED FROM ARCHITECTURAL BACK SPLASH OR COUNTER TOP, IF MISSING BACK SPLASH, TOP OF BOX TO BE NO HIGHER THAN 46" ABOVE FINISHED FLOOR. (REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS)

SCHEDULE NOTES:
1. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
3. NFPA-72 MOUNTING RANGE IS BETWEEN 80" TO 96" ABOVE FINISHED FLOOR. DEVICES TO BE MOUNTED AT 80" ABOVE FINISHED FLOOR UNLESS IN CONFLICT WITH A MINIMUM OF 6" SEPARATION BETWEEN DEVICE AND CEILING, AND ALL LIKE DEVICES IN SPACE TO BE MOUNTED AT SAME ELEVATION.

SINGLE LINE DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
———	CONDUCTORS AND CONDUIT	- - - - - - - - - -	CONTROL WIRING
VS	VOLTMETER SWITCH	AS	AMPMETER SWITCH
	NORMALLY OPEN CONTACTOR		NORMALLY CLOSED CONTACTOR
	MOTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER DEVICE
ST	SHUNT TRIP RELAY		GROUNDING POINT
	INDICATING LIGHT	GFR	GROUND FAULT RELAY
A	AMPMETER	V	VOLTMETER
M	KILOWATT HOUR/DEMAND METER WITH CT CABINET		PUSH BUTTON
AMPS POLES	SWITCH		OVERLOAD RELAY
MFG FRAME AMPS	CIRCUIT BREAKER	MFG FRAME AMPS	FUSE
	CURRENT TRANSFORMER		POTENTIAL TRANSFORMER
	MOTOR STARTER (BY CONTRACTOR)		MOTOR STARTER WITH DISCONNECT
STARTER BY OTHERS	STARTER BY OTHERS	VSD	VARIABLE SPEED DRIVE
NEMA AMPS POLES	ENCLOSED FUSED DISCONNECT	NEMA AMPS POLES	ENCLOSED DISCONNECT
G	GENERATOR		SERVICE TRANSFORMER
N E L	AUTOMATIC TRANSFER SWITCH	PANEL X	ELECTRICAL PANEL

ELEC. LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
A1	"A" TYPICAL LUMINAIRE TAG (-EM = EMERGENCY BATTERY PACK)
	RECESSED 2x4 FLUORESCENT TROFFER
	EMERGENCY RECESSED 2x4 TROFFER
	RECESSED 2x2 FLUORESCENT TROFFER
	EMERGENCY RECESSED 2x4 TROFFER
	STRIP FLUORESCENT LIGHT
	EMERGENCY STRIP FLUORESCENT LIGHT
	RECESSED DOWN LIGHT
	EMERGENCY RECESSED DOWN LIGHT
	WALL MOUNTED LINEAR FLUORESCENT LIGHT
	WALL MOUNTED LINEAR FLUORESCENT LIGHT
	SURFACE MOUNTED DOME LIGHT
	EMERGENCY SURFACE MOUNTED DOME LIGHT
	ROUND PENDENT LIGHT
	LINEAR PENDENT LIGHT
	COVE LIGHTS AND LIGHTS BY LENGHT
	WALL SCONCE
	SURFACE/RECESSED HID LIGHT
	FLOOD LIGHT
	BOLLARD LIGHT
	CEILING MOUNTED EXIT SIGN, ARROWS AS INDICATED, SHADED SECTORS INDICATE FACE(S)
	WALL MOUNTED EXIT SIGN, ARROWS AS INDICATED, SHADED SECTORS INDICATE FACE(S)
	EMERGENCY LIGHTING UNIT
	EMERGENCY LIGHTING UNIT WITH EXTENDED BATTERY
	REMOTE EMERGENCY LIGHTING UNIT
	REMOTE EMERGENCY LIGHTING UNIT, WET LOCATIONS
	EMERGENCY LIGHTING UNIT, BATTERY ONLY
	SWITCHES
ST	BY-PASS SHUNT-TRIP WITH JUNCTION BOX.
$	SINGLE POLE SWITCH
³$	THREE WAY SWITCH
⁴$	FOUR WAY SWITCH
ᴷ$	KEYED SWITCH
ᴰᴹ$	DIMMER SWITCH - CONFIRM WATTAGE
ᴹᶜ$	MOMENTARY CONTACT SWITCH
ᴾ$	SWITCH WITH PILOT LIGHT
ᴹ$	MOTOR RATED SWITCH
ᴼᶜ$	SINGLE POLE SWITCH WITH INTEGRATED OCCUPANCY SENSOR

SCHEDULE NOTES:
1. THE ABOVE SYMBOLS ARE A REPRESENTATION OF POSSIBLE SYMBOLS USED IN THE DRAWINGS. OTHER SIMILAR SYMBOLS MAY BE USED.

ELEC. ABBREVIATIONS

ABBREV.	DEFINITION
AC	ABOVE COUNTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFG	ABOVE FINISH GRADE
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
AL	ALUMINUM CONDUCTORS
ATS	AUTOMATIC TRANSFER SWITCH
CATV	CABLE TV
CCTV	CLOSE CIRCUIT TV
DB	DATA BACKBOARD
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
EMERG	EMERGENCY
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
(N)	NEW ELECTRICAL EQUIPMENT OR WORK
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NL	NIGHT LIGHT
OS	OCCUPANCY SENSOR
PACK	BATTERY PACK
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(R&R)	REMOVE AND RELOCATE
RGS	RIGID GALVANIZED STEEL
TB	TELEPHONE BACKBOARD
TEDP	TELEPHONE EQUIPMENT DISTRIBUTION PANEL
WP	WEATHER PROOF

ELEC. POWER SYMBOLS

SYMBOL	DESCRIPTION
———	POWERED WIRING
(E)	EXISTING COMPONENT
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX OUTLET W/ INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
ᴵᴳ	ISOLATED GROUND DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX RECEPTACLE OUTLET
	QUAD RECEPTACLE OUTLET
	RECESSED FLOOR SINGLE RECEPTACLE OUTLET
	RECESSED FLOOR DUPLEX RECEPTACLE OUTLET
	RECESSED FLOOR QUAD RECEPTACLE OUTLET
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET
	HORIZONTALLY MOUNTED RECEPTACLE OUTLET
	HIGH VOLTAGE RECEPTACLE OUTLET
	PEDESTAL SINGLE RECEPTACLE OUTLET
	PEDESTAL DUPLEX RECEPTACLE OUTLET
	PEDESTAL QUAD RECEPTACLE OUTLET
	POWER CONNECTION THE FURNITURE
WP	WEATHER PROOF GFCI RECEPTACLE OUTLET
	220 VOLT RECEPTACLE OUTLET
	SPECIAL PURPOSE OUTLET, PER EQUIPMENT SERVED.
	WALL MOUNTED JUNCTION BOX
J	CEILING MOUNTED JUNCTION BOX
	DISCONNECT SWITCH, SIZED PER CIRCUIT
	DISCONNECT FUSED SWITCH, SIZED PER CIRCUIT
	COMBINATION MAGNETIC MOTOR STARTER
VSD	VARIABLE SPEED DRIVE
CTB	CABLE TAP BOX
	CEILING FAN
	ELECTRIC MOTOR
	SURFACE MOUNTED ELECTRICAL PANEL
	RECESSED ELECTRICAL PANEL
	SMALL TRANSFORMER
M	ELECTRIC METER
R	RELAY
C	LIGHTING CONTACTOR
TC	TIME CLOCK
T	THERMOSTAT - COORDINATE WITH MECHANICAL
	PUSH BUTTON
B	BELL
B	BUZZER
	CONDUIT DOWN
	CONDUIT UP
	HOME RUN
	HOME RUN DIRECTLY CONNECTED TO EQUIPMENT
	SMOKE DAMPER MOTOR PROVIDED BY MECHANICAL TRADES WIRED BY ELECTRICAL TRADES, REFER TO FIRE ALARM FOR MONITORING WIRING
MDC	MULTI-DEVICE CIRCUIT, MULTIPLE DEVICES ARE ASSOCIATED WITH NOTED CIRCUIT. INDIVIDUAL DEVICES ARE SHOWN ON TYPICAL ENLARGED PLANS.

ELEC. DRAWING SYMBOLS

SYMBOL	DESCRIPTION
1	CONSTRUCTION KEY NOTE
1	DEMOLITION KEY NOTE
EF 1	EQUIPMENT DESIGNATION
- - - - - - - -	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
- - - - - -	EXISTING SYSTEM COMPONENT TO BE REMOVED
———	LINE OF NEW OR MODIFIED DEVICES OR EQUIPMENT
3-12,1-8 G	WIRE TAG - (3) #12 HOTS WITH (1) #8 GROUND
PNL-A	PANEL TAG - "A" DESIGNATES PANEL NAME
30A/3R 2 STR	DISCONNECT TAG - 30 AMP, NEMA 3R, 25 AMP TRIP OVER CURRENT PROTECTION

ELECTRICAL GENERAL NOTES

1	THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE ELECTRICAL SYSTEMS COMPLETE PER SPECIFICATIONS, NATIONAL ELECTRICAL CODE, & ALL APPLICABLE CODES.
2	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3	UNLESS OTHERWISE NOTED, REFER TO PANEL BOARD SCHEDULES FOR EQUIPMENT LOADS, CIRCUIT BREAKER SIZES, & PROPOSED WIRE GAUGES.
4	UNLESS OTHERWISE NOTED, REFER TO SINGLE LINE DIAGRAM FOR SWITCHBOARD, DISTRIBUTION PANELS, EQUIPMENT LOADS, CIRCUIT BREAKER SIZES, WIRE GAUGES, & CONDUIT SIZES.
6	ANY 120 VOLT BRANCH CIRCUIT LONGER THAN 120'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS OF BRANCH CIRCUIT.
7	SHARING OF NEUTRALS IS PROHIBITED.
8	ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
9	MOUNT GROUPED LIGHT SWITCHES UNDER ONE COMMON FACE PLATE. MULTIPLE SINGLE GANG FACE PLATES FOR GROUPED SWITCHES IS NOT ACCEPTABLE.
10	CONFIRM LOCATION OF FURNITURE, OWNER PROVIDED WALL & FLOOR LAMPS, PHONE, TV, & POWER OUTLETS WITH OWNER'S ROOM USE PLANS.
11	ELECTRICAL DEVICE BOXES ARE NOT TO BE INSTALLED IN PARTITION WALLS IN A DIRECT BACK-TO-BACK CONFIGURATION, WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT/ENGINEER.
12	GUESTROOM RECEPTACLES TO BE INSTALLED BEHIND FURNITURE AS INDICATED ON PLANS. PROVIDE MOCK-UP OF TYPICAL GUESTROOMS FOR ARCHITECT/ENGINEER APPROVAL.
13	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PRIOR TO INSTALLATION OF ANY INDIVIDUAL CIRCUIT, TO VERIFY WITH ALL OTHER TRADES CONCERNED THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE IN SIZE & MAKE-UP FOR THE MECHANICAL AND/OR KITCHEN EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE, OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR.
14	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES & CEILING CONSTRUCTION.
15	THESE ARE STANDARD SYMBOLS & MAY NOT ALL APPEAR ON PROJECT DRAWING FILES. WHENEVER THE SYMBOL OCCURS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED & INSTALLED.
16	DETAIL CALL OUTS ARE GIVEN AS A REFERENCING AID. DETAILS SHALL BE APPLIED BOTH WHERE CALLED OUT & AS APPLICABLE.
17	DO NOT ROUTE WIRING OR CONDUITS THROUGH STRUCTURAL MEMBERS REQUIRING FIELD OPENINGS LARGER THAN 1", WITHOUT WRITTEN CONSENT FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, & STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL PLANS.
18	IN PUBLIC SPACE ROUTE RACEWAY AND CABLES BEHIND WALL, CEILING, AND FLOOR FINISHES. DO NOT INSTALL SURFACE RACEWAY OR WIREMOLD WITHOUT WRITTEN CONSENT FORM ARCHITECT.
19	LOCATE GUESTROOM RECEPTACLES BEHIND FURNITURE UNLESS OTHERWISE INDICATED. COORDINATE DEVICE LOCATIONS WITH ALL TRADES AND F.F.&E. PRIOR TO STARTING WORK.

PHONE/DATA/TV SYMBOLS

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET
	TELEPHONE OUTLET FOR WALL PHONE
	TELEPHONE OUTLET FOR DEDICATED HOUSE PHONE
W/H	WALL MOUNTED DEDICATED HOUSE PHONE
	TELEPHONE OUTLET, MOUNTED HORIZONTALLY
	TELEPHONE OUTLET, FLOOR MOUNT
	DATA OUTLET
	DATA OUTLET, MOUNTED HORIZONTALLY
	DATA OUTLET, FLOOR MOUNTED
	COMBINATION DATA AND PHONE OUTLET
WAP	WIRELESS ACCESS POINT (10' OF ROLLED DATA CABLE ABOVE CEILING WITH SURFACE MTD JUNCTION BOX)
TV	TV. OUTLET
PC	PHOTOCELL
S	WALL MOUNTED SPEAKER
S	CEILING MOUNTED SPEAKER
CAM	SECURITY CAMERA LOCATION

SCHEDULE NOTES:
1. EACH COMMUNICATION JACK TO HAVE AN INDEPENDENT HOME RUN CABLE. DO NOT GANG MULTIPLE JACKS ONTO ONE CABLE.
2. (#) INDICATES A MULTI-TERMINATION OUTLET. NUMBER OF TERMINATIONS AS INDICATED.
3. CAMERA LOCATION TO INCLUDE SINGLE GANG JUNCTION BOX, 3/4" CONDUIT, AND PULL CORD TO HOME RUN AS INDICATED.

Job No: 2140
Drawn: CAN
Checked: SCP

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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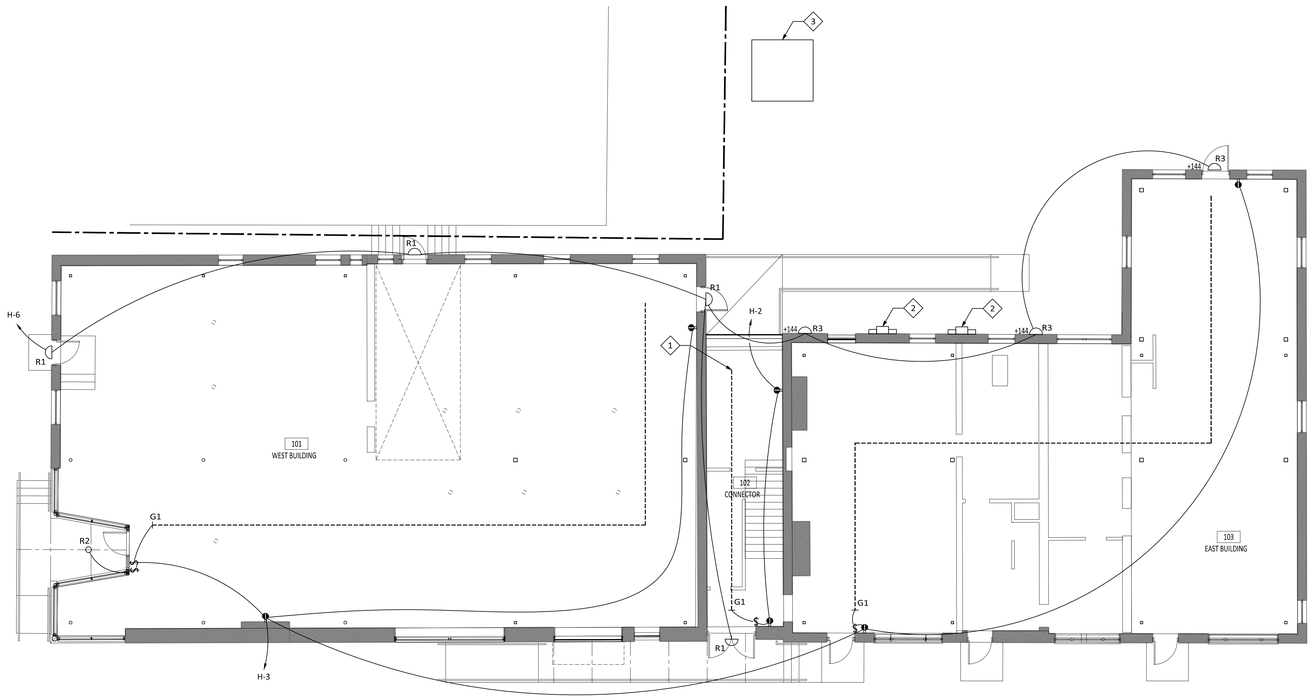
Drawing Title:
ELECTRICAL ABBREVIATIONS TABLES AND SYMBOLS

Sheet No.
E000

Date: 04/13/2022

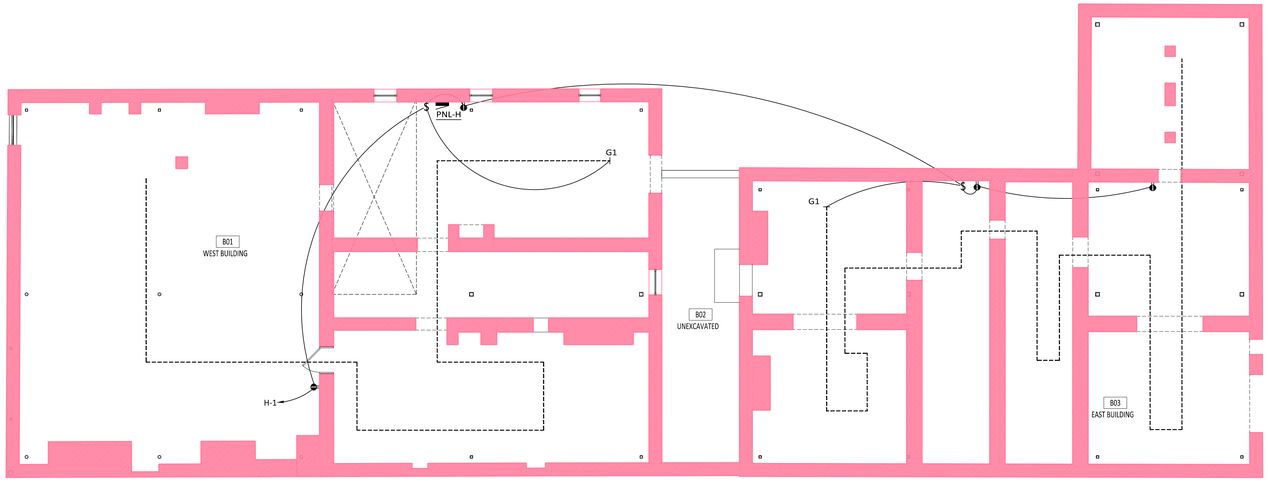
FIRST FLOOR KEYED NOTES

1	ROUTE NOTED STRING LIGHT UP STAIR TOWER. FIELD VERIFY EXISTING CONDITIONS.
2	PROPOSED METER BANK. REFER TO SINGLE LINE DIAGRAM.
3	PROPOSED ELECTRICAL SERVICE TRANSFORMER. REFER TO OTHER DRAWINGS.



FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"



BASEMENT ELECTRICAL PLAN

1/8" = 1'-0"

Job No: 2140
Drawn: SCP
Checked: SCP

Revisions:

No:	Date:
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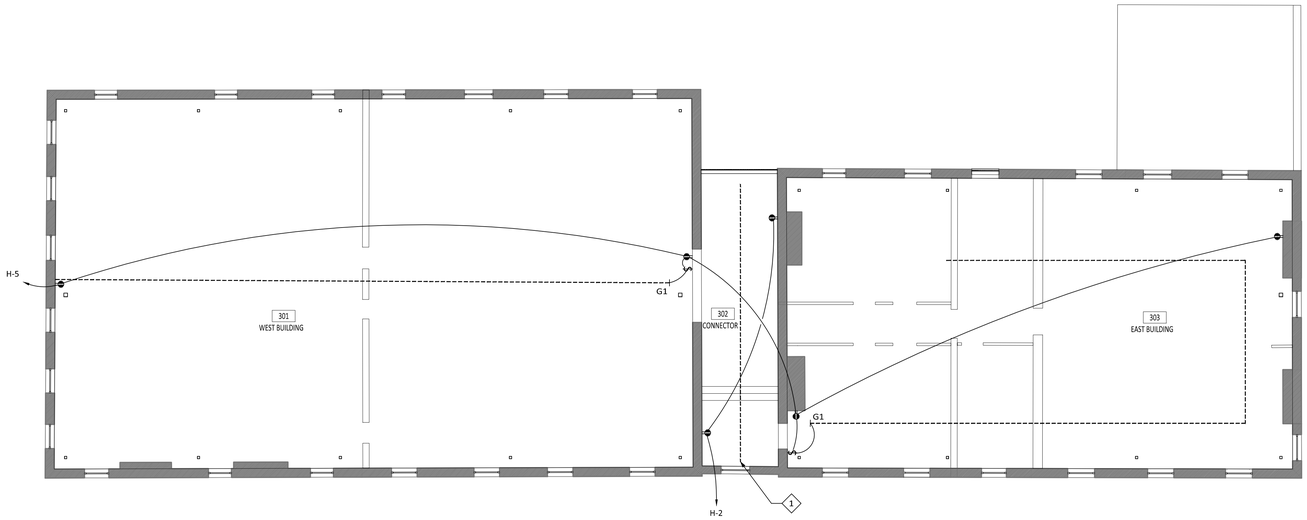
Drawing Title:
BASEMENT AND FIRST FLOOR ELECTRICAL PLANS

Sheet No.
E101

Date: 04/13/2022

THIRD FLOOR KEYED NOTES

1	CONTINUE STRING LIGHT FROM BELOW AND LIGHT STAIRS. REFER TO ADDITIONAL DRAWINGS.

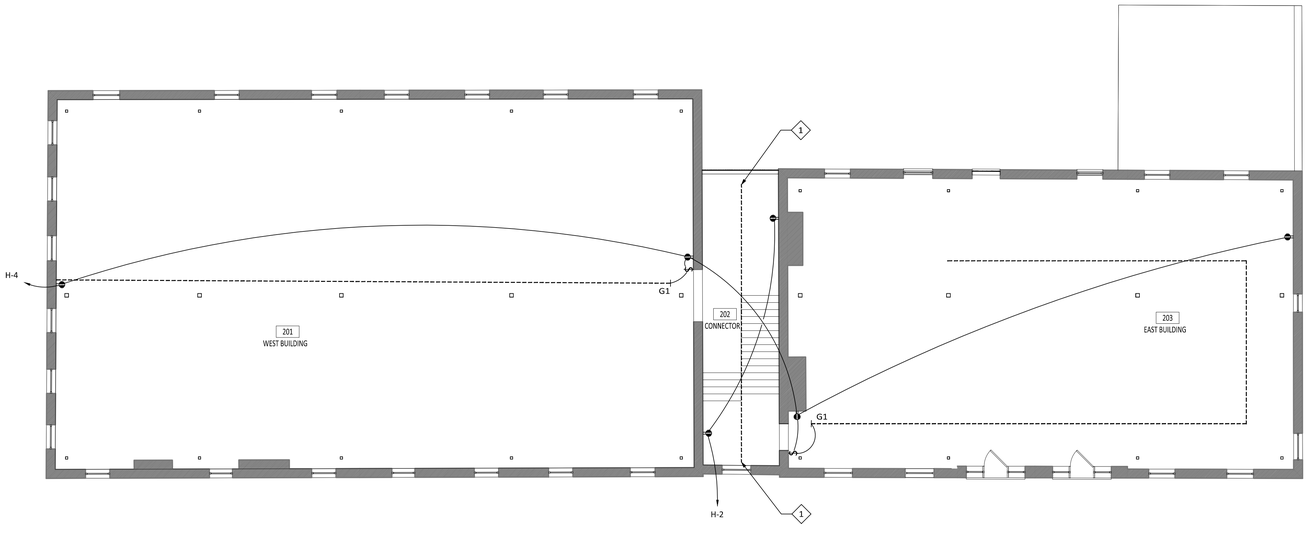


THIRD FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

SECOND FLOOR KEYED NOTES

1	CONTINUE STRING LIGHT UP FROM BELOW TO FLOOR ABOVE. ROUTE TO LIGHT STAIRS. REFER TO ADDITIONAL PLANS.



SECOND FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

Job No: 2140
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Revisions:

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Drawing Title:
SECOND AND THIRD FLOOR ELECTRICAL PLANS

Sheet No.
E102

Date: 04/13/2022

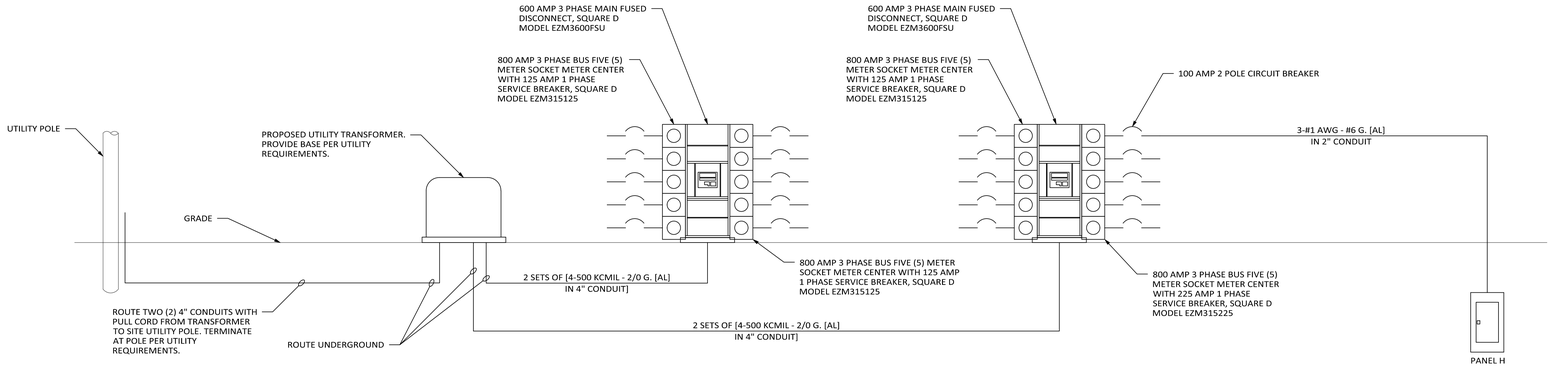
PANEL–H

VOLTS/PHASE/WIRE: 120/240/1/3 | PANEL SIZE: 100 A | MAIN TYPE & SIZE: 100 A MLO | NOTES: ---- | CABINET: ---- | MIN SCC: 9589 | FED FROM: ----

CIR. NO.	AREA SERVED	TRIP AMPS	NO. POLES	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA A	PHASE LOAD VA B	NO. POLES	TRIP AMPS	AREA SERVED	CIR. NO.
1	BASEMENT POWER	20	1	1020		1380		1	20	STAIR POWER	2
3	FIRST FLOOR POWER	20	1		1032		1020	1	20	SECOND FLOOR POWER	4
5	THIRD FLOOR POWER	20	1	1020		77		1	20	BUIDLING LIGHTS	6
7	SPACE	0	1		0		0	1	0	SPACE	8
9	SPACE	0	1	0		0		1	0	SPACE	10
11	SPACE	0	1		0		0	1	0	SPACE	12
13	SPACE	0	1	0		0		1	0	SPACE	14
15	SPACE	0	1		0		0	1	0	SPACE	16
17	SPACE	0	1	0		0		1	0	SPACE	18
19	SPACE	0	1		0		0	1	0	SPACE	20
21	SPACE	0	1	0		0		1	0	SPACE	22
23	SPACE	0	1		0		0	1	0	SPACE	24
25	SPACE	0	1	0		0		1	0	SPACE	26
27	SPACE	0	1		0		0	1	0	SPACE	28
29	SPACE	0	1	0		0		1	0	SPACE	30

	A	B
TOTAL	3497	2052
TOTAL KVA	5.5	
TOTAL AMPS	23.1	
DEMAND AMPS	24.8	

LOAD CATEGORY	CONN. LOAD	DEMAND FACTOR	DIVERSIFIED LOAD
Lighting	1.5	1.25	1.9
Lighting – Exterior	0.1	1.25	0.1
Receptacles (0 – 10 KVA)	4.0	1.00	4.0



SINGLE LINE DIAGRAM

NOT TO SCALE

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EMERG	LAMP DATA					BALLAST TYPE	VOLTAGE	MOUNTING	NOTES
				PACK	QTY	LAMP TYPE	COLOR TEMP.	WATTAGE	LUMENS			TYPE	
G1	100' LONG LED STRING LIGHTS WITH AT LAMP EVERY 10'	BERGEN INDUSTRIES	GL100182LED		10	LED	3000	13.0	160	ELECTRONIC	120	SURFACE	–
R1	ENTRANCE LIGHT WITH DARK BRONZE FINISH	LITHONIA LIGHTING	WPX1LED–30K–PE		1	LED	3000	11.0	1550	ELECTRONIC	120	SURFACE	–
R2	6" LENSED DOWNLIGHT WITH REGRESSED LENS AND WHITE FINISH	GOTHAM	EVO6SH–30/10–6DFR–SMO–MVOLT–EZ10		1	LED	3000	12.0	1000	ELECTRONIC	120	RECESSED	–
R3	AREA LIGHT WITH DARK BRONZE FINISH	LITHONIA LIGHTING	TWX2LED–P2–30K–MVOLT–PE–DDBXD		1	LED	3000	32.0	4400	ELECTRONIC	120	SURFACE	–

ELECTRICAL SPECIFICATIONS

1. Manufacturers' names on which the specification is based indicate the minimum quality of product required. Substitution may be made to those specified if deemed equivalent by the owner's representative. All work and products shall meet the requirements of the landlord.
2. The general conditions and supplementary general conditions shall be considered as part of this specification.
3. Contractors shall visit site prior to bidding. Bids shall serve as evidence of knowledge of existing conditions. Field verify Landlord's electrical and telephone equipment and distance from leased space. No claims for extras resulting from lack of knowledge of existing site conditions shall be approved.
4. Furnish all labor, materials, equipment and tools to perform electrical work shown, noted or scheduled for a complete and finished installation.
   a. All materials and equipment shall be commercial grade and shall carry a U.L. label.
   b. Materials, products and equipment, including components thereof shall be new end such as appears on the Underwriter's Laboratory list of approved items and shell meet the requirements of recognized standards.
   c. Equipment shall be sized in conformity with requirements of the National Electrical Code and other applicable codes.
5. The word "provide" as used herein means to furnish and install complete.
6. All work to be in accordance with NEC and all applicable federal, state, end local codes.
7. Contractor shall be responsible to complete all forms required to secure end pay for all required permits end inspection certificates.
8. Submit materiel lists and shop drawings for major equipment to the architect for approval. Submittals shall be in accordance with general conditions end shell bear the stamp of the electrical contractor showing that he has reviewed and approved them. Lack of such contractor's approval will be cause for rejection without review by the architect.
9. Scope of work:
   a. Provide electrical service to space per drawings and landlords requirements.
   b. Install new lighting fixtures, per schedule.
   c. New receptacles as indicated.
   d. If applicable, circuiting of relocated panel(s). Provide new circuit breakers as required.
   e. Provide telephone service and telephone system raceway and junction boxes. All telephone system wiring and devices within tenant space furnished end installed by Owner.
   f. Testing of ell cables and circuit wiring after installation.
   g. Testing of ell electrical equipment.
   h. Provision for temporary construction power.
10. Raceway:
    a. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
    b. Underground More than 5feet outside Foundation Wall: Provide thickwall nonmetallic conduit. Provide cast metal boxes or nonmetallic handhole.
    c. Underground Within 5feet from Foundation Wall: Provide thickwall nonmetallic conduit and thin-wall nonmetallic conduit. Provide cast metal or nonmetallic boxes.
    d. In or Under Slab on Grade: Provide thickwall nonmetallic conduit. Provide cast or nonmetallic metal boxes.
    e. Outdoor Locations, Above Grade: Provide rigid steel and aluminum conduit. Provide cast metal or nonmetallic outlet, pull, and junction boxes.
    f. In Slab Above Grade: Provide thickwall nonmetallic conduit. Provide cast boxes.
    g. Wet and Damp Locations: Provide rigid aluminum conduit and thickwall nonmetallic conduit. Provide cast metal or nonmetallic outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas.
    h. Concealed Wet Locations (Pool Rooms): Provide stainless steel conduit, approved electrical metallic tubing, and thickwall nonmetallic conduit. Provide cast metal or nonmetallic outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas.
    i. Exposed Wet Locations (Pool Rooms): Provide stainless steel conduit or approved electrical metallic tubing. Provide stainless steel boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
    j. Concealed Dry Locations: Provide rigid steel conduit, electrical metallic tubing and thickwall nonmetallic conduit]. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
    k. Exposed Dry Locations: Provide rigid steel conduit, electrical metallic tubing and thickwall nonmetallic conduit. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
    l. Minimum sizes of conduit shall be 3/4" excepl 1/2" for switch legs.
    m. EMT shall be galvanized or electro-galvanized.
    n. Flexible metal conduit may be used only for short connections to fixtures and equipment, as permitted by code. Maximum length 5'-0".
11. Wiring Methods: Provide the following wiring methods:
    a. Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN insulation, in raceway or metal clad cable.
    b. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN insulation, in raceway or metal clad cable.
    c. Above Accessible Ceilings: Use only building wire, Type THHN/THWN insulation, in raceway or metal clad cable.
    d. Wet or Damp Interior Locations: Use only building wire, Type THWN insulation, in raceway.
    e. Exterior Locations: Use only building wire, Type THHN/THWN insulation, in raceway.
    f. Underground Locations: Use only building wire, Type XHHW insulation, in raceway.
12. All conductors shall be soft drawn, annealed copper, with 600V 90°C (THHN) insulation:
    a. #10 and smaller-solid with single strand.
    b. #8 and larger- stranded with at least double strand.
    c. All wiring to be #12, unless otherwise noted.
    d. #14 may be used for control applications.
    e. All low voltage wiring not required to be in conduit shall be fire retardant plenum rated.
    f. All wire and cable shall be new end shall be brought to the site in unbroken packages.
    g. Aluminum conductors only as shown on drawings.
    h. Metal Clad Cable shall have thermoplastic insulation with aluminum interlocking tape armor.
    i. Wire connectors shall be equal to Scotchlock for #8 and smaller, and T&B "Lock-Tine" for #6 and larger.
    j. Wires shall be color coded and followed throughout for feeders and branch circuits:
    i. 120/208 Volt Colors: Phase A-Black, Phase B-Red, Phase C-Blue, Neutral-White, Ground-Green.
13. Boxes and fittings shall be new, commercial quality and located where required to install the conductors in compliance with the prevailing codes. Approved manufactures are: STEEL CITY, RACO or APPLETON.
    a. Sheet metal boxes: NEMA OS 1 .
    b. Cast metal boxes: NEMA FB 1, type FS or FD
    c. Cast ferroalloy box with gasketed cover.
    d. Boxes in fire-rated walls shall have a fire rating equal to or greater then the rating of the wall.
14. Wiring Devices:
    a. Wiring device accessories including all wall plates shell be provided at each device. Well plates shell be same color as device end manufactured as a companion to the device. All wiring devices and cover plates shall be gray unless noted otherwise.
    b. Wall switches, single pole, double pole, and three way shall be spec. grade, 20A, 120/277Y, with screw terminals, equal to Hubbell #HBL1221. Manufacturers shall be Hubbell, Bryant, Pass and Seymour or Leviton.
    c. General duty duplex receptacles shall be 2-pole, 3-wire grounding type, commercial grade, 20A, 125Y equal to Hubbell #5362. Manufacturers shall be Hubbell, Bryant. Pass and Seymour, or Leviton.
    d. Ground fault interrupter receptacle shall be, duplex receptacles, feed-through type, capable of protecting connected downstream receptacles on a single circuit, 20A, 120Y, 60 HZ; with solid-state ground fault sensing and signaling; with 5 milli-amperes ground-fault trip level equal to Hubbell #GF5362. Approved Manufacturers shall be Hubbell, Bryant, Pass and Seymour, or Leviton.
    e. Weatherproof receptacle cover shall be Hubbell #WP826MP. Approved Manufacturers shall be Hubbell, Bryant, Pass and Seymour, or Leviton.
15. Grounding system:
    a. Provide, install, and connect a complete system of grounding for all equipment and structures. Mechanical and electrical connection shell be made with approved grounding connectors.
    b. Electrical system and equipment grounds shall comply with all local, state, and NEC codes and regulations.
    c. Panels, conduit systems, motor frames, lighting fixtures and other equipment that are a part of this installation shall be securely grounded.
    d. Main grounding system shall be sized to conform with section 250 of the NEC. Provide conduit to protect ground wire from damage to an area 6' -0" above floor.
    e. Ground all 3 wire receptacles to the outlet boxes.
    f. Ground conductor shall be supplied in all conduit.
    g. A separate dedicated, insulated ground system shall be installed for electronic cash registers.
16. Work in electrical panel shall include:
    a. Check and tighten all connections and wiring.
    b. Verify operation of all breakers.
    c. Circuit breakers shall be quick-make, quick-break, trip indicating type and ambient compensating. Circuit breakers shall be bolt on type, minimum interrupting shall be as noted on panel schedule.
    d. Breakers serving lighting circuits shall be rated for switch service.
    e. Breakers serving HV-AC equipment shall be IIACR rated.
    f. Provide "Lack-on" device at breakers serving cash register, night light/emergency, fire alarm equipment and time switch circuits, as indicated on the panel schedule.
    g. Provide panel directory, typed and installed behind clear plastic cover on inside of the door.
    h. Panel shall be circuited so that the load is distributed evenly across all three phases to within 10% per NEC or as directed by Landlord. Contractor shall revise circuiting noted on plans as required to accomplish proper panel balancing.
17. Safety and disconnect switches:
    a. Provide safety and disconnect switches, fused or non-fused, as called for on drawing and as required by code. Switches shall be heavy duty, load and horsepower rated. Equal to Square D type H, as manufactured by Square D, General Electric or equal. Switch enclosure to be suitable for application.
18. Fuses:
    a. Cartridge fuses shall be one time Bussmann "Low-peak" sized according to the load or as indicated on the drawings.
    b. Provide fuses in all switches requiring them. In addition, furnish to the Owner one set of each size and type fuse on the job.
19. Contractor shall make arrangements for temporary power and shall pay the cost for the utility connection end shall be responsible for the proper maintenance of the temporary work and for the removal of same.
    a. Contractor shall pay all utility charges in connection with the temporary power.
    b. Contractor shell provide ground fault protection for all equipment used on the premises during construction.
20. Contractor shall do all cutting, chasing, or channeling and patching required for any work herein specified. Any cutting shall have prior approval by the landlord.
    a. Contractor is responsible to take whatever measures are necessary including but not limited to those measures prescribed by the landlord in the exercise of its reasonable judgement to assure that coreboring will not damage landlord's structure, conduits, etc. or the work of other tenant's below. The cost of such tests or repair of any damage will be borne by this contractor.
    b. All sleeved, openings, etc. through fire rated walls and floors shall be sealed after conduit installation with sealer equal to or exceeding fire rating of floor or wall.
21. All electrical work shall be installed so as to be readily accessible for operating, servicing, maintaining and repair. Hangers shall include all miscellaneous steel, such as channels, rods, etc., necessary for the installation of work and shall be secured to the building structure, not to piping or ductwork.
    a. All conduit shall be concealed where possible. Exposed conduit shall be run in straight lines parallel with or at right angles to column lines and supported at least 3" from water lines.
22. Lighting Fixtures:
    a. The contractor shall install a new lighting fixture of the type specified for each lighting outlet shown with complete lamps or tubes. All fixtures shell be hung and mounted in place, properly wired, tested end left ready for operation.
    b. Note! Contractor shall refer to architectural reflected ceiling plan and shall install fixtures as dimensioned on that plan.
23. Electrical contractor shall record all field changes of his work as the job progresses, and upon completion shall turn over to the tenant a record set of prints showing these changes.
24. At the completion of job, contractor shall replace any lamps, ballasts, or drivers that are inoperable, new and existing locations, clean all fixtures, touch up any scratches and replace any fixtures that have been damaged.
25. Guarantee:
    a. Materials, equipment and installation shall be guaranteed for a period of one year from the date of acceptance. Defects which appear during that period shall be corrected at the contractor's expense.
    b. For the same period, electrical contractor shall be responsible for any damage to the premises caused by defects in workmanship or in the work or equipment furnished and/or installed by said contractor.
    c. Warranty of all work for a period of one year from date of project close-out.
26. It is the intent that the foregoing work shell be complete in every respect and that any material or work not specifically mentioned or shown on the drawings, but necessary to fully complete the work shall be furnished.
27. The location of receptacles and fixtures shown on the drawing is approximate and the owner shall have the right to relocate any receptacles or fixtures before they are installed without additional cost.

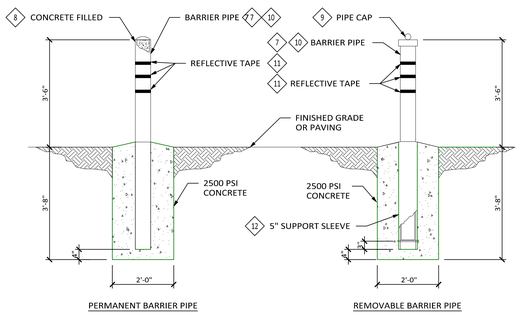
PAD-MOUNTED EQUIPMENT PROTECTION
SCALE: NONE

PAD-MOUNTED EQUIPMENT PROTECTION AND BARRIER PIPE DETAILS

NOT TO SCALE

KEYED NOTES:

1. ELECTRICAL EQUIPMENT SUCH AS PAD-MOUNTED TRANSFORMER OR SECTIONALIZING SWITCHGEAR.
2. PERMANENT BARRIER PIPE PER DETAIL ON THIS SHEET.
3. REMOVABLE BARRIER PIPE PER DETAIL ON THIS SHEET.
4. PROVIDE BARRIER PIPES WHERE EQUIPMENT IS SUBJECT TO ACCIDENTAL LOW-SPEED VEHICLE CONTACT SUCH AS IN PARKING LOTS, ALLEYS, OR EQUIPMENT SERVICE PATHS. WHERE EQUIPMENT IS NEAR ROADWAYS, PROVIDE SUITABLE ROADSIDE BARRIER TO MEET SITE CONDITIONS IN ACCORDANCE WITH THE AASHTO "ROADSIDE DESIGN GUIDE."
5. BARRIER PIPES MAY BE OMITTED ON SIDES THAT ARE ADEQUATELY PROTECTED FROM ACCIDENTAL VEHICLE CONTACT BY STRUCTURES OR TOPOGRAPHY.
6. PROVIDE 4 FT CLEARANCE AND REMOVABLE BARRIER PIPES WHERE ACCESS IS REQUIRED FOR SERVICE OR HOT STICK OPERATIONS. SECTIONALIZING SWITCHGEAR TYPICALLY REQUIRES HOT STICK OPERATION SPACES ON TWO SIDES.
7. MAKE BARRIER PIPES FROM 4 INCH SCHEDULE 40 GALVANIZED STEEL.
8. FILL PERMANENT BARRIER PIPES WITH CONCRETE AND FINISH WITH A ROUNDED TOP.
9. LEAVE REMOVABLE BARRIER PIPES EMPTY AND CAP WITH THREADED PIPE CAP WITH 1 INCH LIFTING EYE.
10. PAINT BARRIER PIPES WITH TWO COATS OF "SAFETY YELLOW" PAINT OVER A SUITABLE PRIMER. YELLOW POLYETHYLENE SLEEVES, SUCH AS THE ARMORCAST "GUARDIAN SLEEVE" MAY BE USED INSTEAD OF PAINTING.
11. APPLY THREE 2-INCH WIDE REFLECTIVE TAPE BANDS ON EACH PIPE BARRIER; USE 3M "SCOTCH-LITE" SILVER REFLECTIVE TAPE OR EQUIVALENT.
12. MAKE SUPPORT SLEEVES FOR REMOVABLE BARRIER PIPES FROM 5 INCH SCHEDULE 40 GALVANIZED STEEL PIPE. INSTALL A 3/4" X 8" GALVANIZED STEEL MACHINE BOLT 3 INCHES ABOVE BASE OF SLEEVE TO ACT AS A SUPPORT STOP FOR THE 4 INCH REMOVABLE BARRIER PIPE.

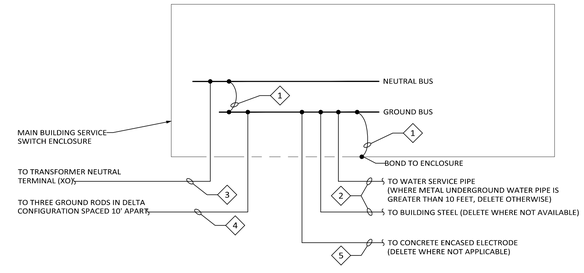


PERMANENT BARRIER PIPE — REMOVABLE BARRIER PIPE

BARRIER PIPE DETAILS
SCALE: NONE

TRANSFORMER BOLLARD DETAIL

NOT TO SCALE



1. MAIN BONDING JUMPER: 250 KCMIL. [AL]
2. GROUNDING SYSTEM GROUNDING ELECTRODE CONDUCTOR: 250 KCMIL. [AL]
3. GROUNDED (NEUTRAL) CONDUCTOR (REFER TO DISTRIBUTION ONE-LINE FOR SIZE).
4. SUPPLEMENTAL GROUNDING ELECTRODE CONDUCTOR: #4 AWG [AL]
5. GROUNDING ELECTRODE CONDUCTOR: #2 AWG. [AL]

MAIN SERVICE GROUNDING DETAIL

NOT TO SCALE

Job No: 2140
Drawn: SCP
Checked: SCP

Revisions:

No:	Date:
No:	Date:
No:	Date:
No:	Date:
No:	Date:

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Drawing Title:
ELECTRICAL DETAILS

Sheet No.
E201

Date: 04/13/2022