

JESTER
JONES
SCHIFER
ARCHITECTS
LTD

Our Marion Office...

355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
E-mail: marion@jjsa.net

Our Columbus Office...

At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
Fax: (614) 761-3996
E-mail: dublin@jjsa.net

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Marion, Ohio

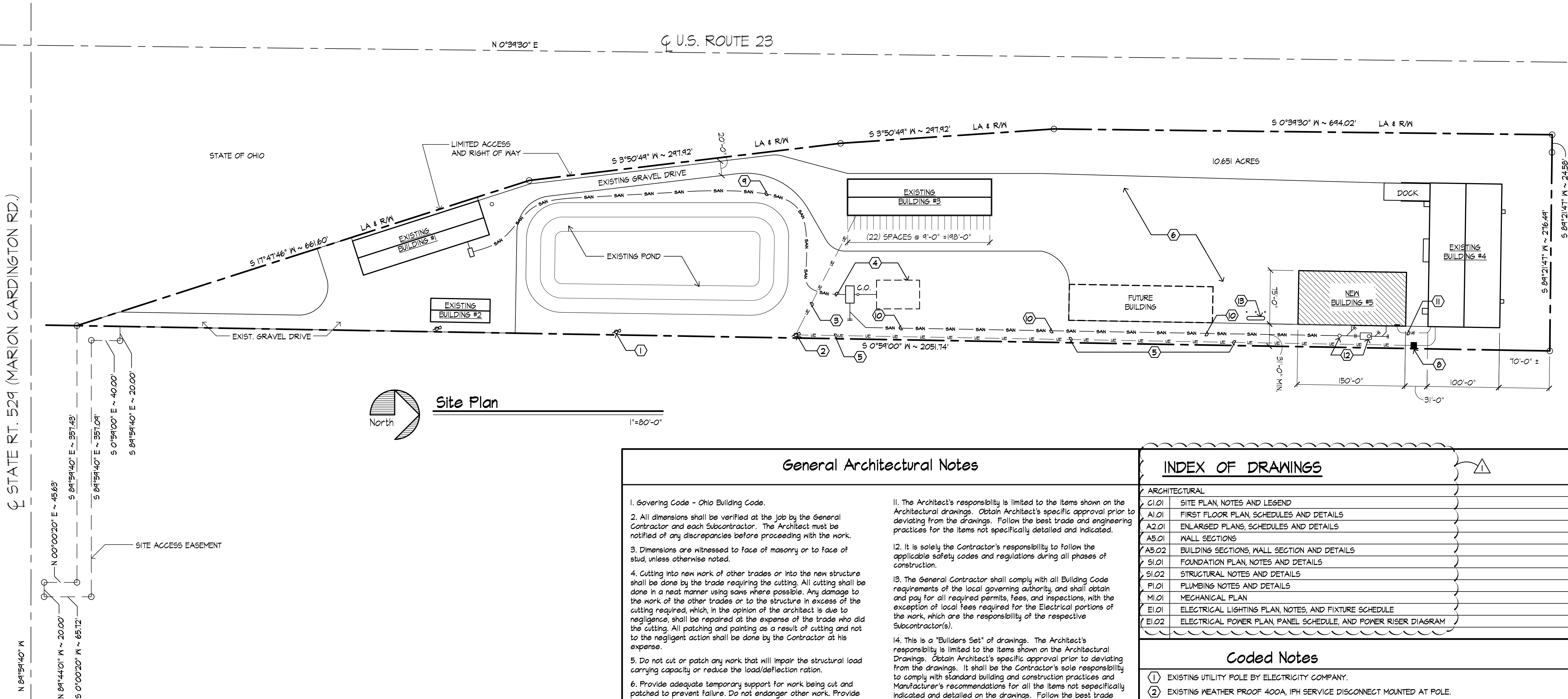
GreenKeeper Salt Storage Building #5

GreenKeeper
1798 Marion Cardington Rd. East

08590_000
September 18, 2008
DRAWN BY: jtl
CHECKED BY: tfs

REVISIONS
REV.: DATE:
9/24/08

C1.01



General Architectural Notes

- Governing Code - Ohio Building Code.
- All dimensions shall be verified at the job by the General Contractor and each Subcontractor. The Architect must be notified of any discrepancies before proceeding with the work.
- Dimensions are witnessed to face of masonry or to face of stud, unless otherwise noted.
- Cutting into new work of other trades or into the new structure shall be done by the trade requiring the cutting. All cutting shall be done in a neat manner using saws where possible. Any damage to the work of the other trades or to the structure in excess of the cutting required, which, in the opinion of the architect is due to negligence, shall be repaired at the expense of the trade who did the cutting. All patching and painting as a result of cutting and not to the negligent action shall be done by the Contractor at his expense.
- Do not cut or patch any work that will impair the structural load carrying capacity or reduce the load/deflection ratio.
- Provide adequate temporary support for work being cut and patched to prevent failure. Do not endanger other work. Provide adequate protection of other work during cutting and patching to prevent damage. Cut work by method least likely to damage work to be retained and adjoining work.
- All connections are to develop the full strength of the framing members, unless otherwise approved.
- The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the Contractor's responsibility to determine erection procedure and sequence and to insure the safety of the building and its component parts during erection. This includes the addition of whatever shoring, sheeting, temporary bracing, guys or tie downs which might be necessary. Such material shall remain the Contractor's property after the completion of the project.
- Bench mark: New Finish floor elevation 100' to be established at approximately 1'-0" above existing natural grade at the location of the new structure.
- Soil Bearing pressure is assumed to be minimum 1500 PSF. Verify soil bearing pressure and subsoil conditions. Notify Architect immediately if conditions less than stated are encountered.
- The Architect's responsibility is limited to the items shown on the Architectural drawings. Obtain Architect's specific approval prior to deviating from the drawings. Follow the best trade and engineering practices for the items not specifically detailed and indicated.
- It is solely the Contractor's responsibility to follow the applicable safety codes and regulations during all phases of construction.
- The General Contractor shall comply with all Building Code requirements of the local governing authority, and shall obtain and pay for all required permits, fees, and inspections, with the exception of local fees required for the Electrical portions of the work, which are the responsibility of the respective Subcontractor(s).
- This is a 'Builders Set' of drawings. The Architect's responsibility is limited to the items shown on the Architectural Drawings. Obtain Architect's specific approval prior to deviating from the drawings. It shall be the Contractor's sole responsibility to comply with standard building and construction practices and Manufacturer's recommendations for all the items not specifically indicated and detailed on the drawings. Follow the best trade practices and engineering for the items not specifically indicated and detailed on the drawings.
- Should any of the detailed instructions shown on the drawings conflict with these notes, structural notes, structural notes, the specifications, or with each other, the strictest provision shall govern.
- All equipment furnished and work performed under the Contract Documents shall be guaranteed against defects in materials and workmanship for a period of one (1) year from the date of final acceptance. Any failure of equipment or work due to defects in material or workmanship shall be corrected by the Contractor at no cost to the Owner.
- In general, new materials and materials for repair conditions shall match similar items in quality, detail, profile, and finish as those already built into the work.
- Construction joints permitted only where shown or as approved by the Architect.
- The General Contractor shall be responsible for extending down spout leaders 2'-0" minimum beyond face of building and to concrete splash blocks. The Site Contractor shall make final connections to storm water drainage systems as required.

Building Code Data

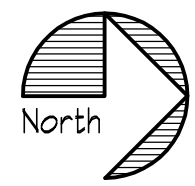
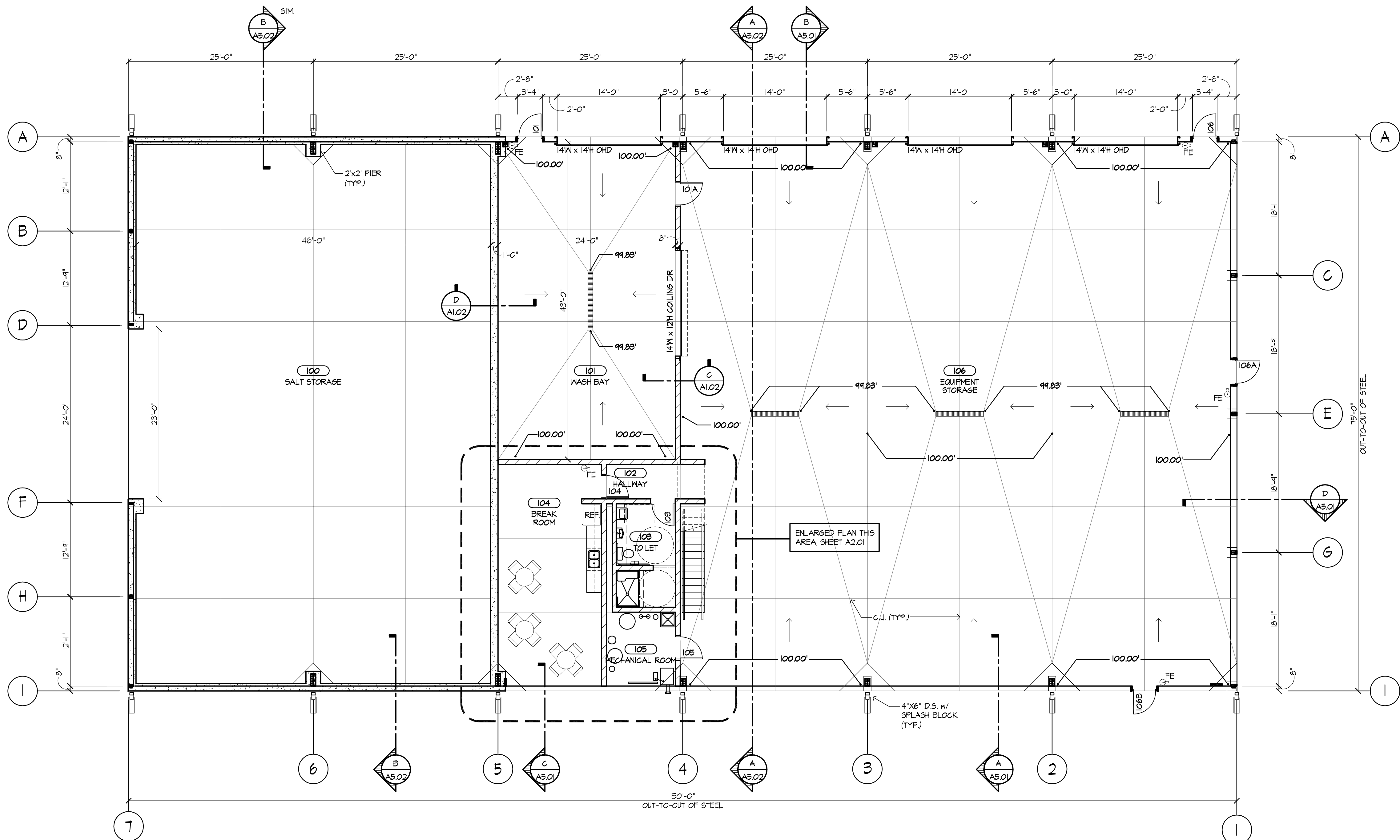
THIS PROJECT CONSISTS OF CONSTRUCTION OF A NEW SALT STORAGE BUILDING INCLUDING ADDITIONAL STORAGE OF LAWN SERVICE AND BUILDING MAINTENANCE EQUIPMENT AND MATERIALS, I.E. FERTILIZER SPREADERS, CORE AERATION, HATCHING, AND LANDSCAPING EQUIPMENT, ETC., AND OFF SEASON EQUIPMENT FOR SNOW REMOVAL, SNOW BLOWERS, AND SALT SPREADERS, ETC. THE BUILDING IS OF PRE-ENGINEERED STEEL FRAME TYPE CONSTRUCTION, WITH METAL SIDING AND ROOFING. THE BUILDING IS UNHEATED IN THE SALT STORAGE AREA, BUT HAS RADIANT FLOOR HEATING IN THE EQUIPMENT STORAGE AND EMPLOYEE LOUNGE PORTION OF THE BUILDING.			
CONSTRUCTION TYPE (CHAPTER #6):	2B	USE GROUP:	S-2
BUILDING DATA:	AREA HEIGHT	ALLOWABLE AREA (503):	S-2 - 17500 sq.ft.
MEZZANINE AREA:	11250 sq.ft. 756 sq.ft.	ALLOWABLE HEIGHT (503):	3 STORY(S)
# OF EXITS REQUIRED:	2 (AS PER 1014.3)		
ADJUSTED ALLOWABLE AREA:		FIRE RESISTANCE DATA: OBC TABLE 601	
FROM TABLE 503:	17500 sq.ft.	STRUCTURAL FRAME:	0 HOUR
FRONTAGE INCREASE:	13,125 sq.ft. * SEE CALCULATION	EXTERIOR BEARING WALLS:	0 HOUR
TOTAL ALLOWABLE AREA:	30,625 sq.ft.	INTERIOR BEARING WALLS:	0 HOUR
*FRONTAGE INCREASE MODIFICATION (SECTION 506.2):		FLOOR CONSTRUCTION:	0 HOUR
$I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{M}{30}$		ROOF CONSTRUCTION:	0 HOUR
$I_f = 100 \left[\frac{600}{600} - 0.25 \right] \frac{30}{30} = 75\%$		FIRE SUPPRESSION SYSTEM:	N/A
$A_f = 17,500 + (17,500 / (75 / 100)) = 30,625 \text{ sq. ft.}$		FIRE ALARM AND FIRE/SMOKE DETECTION SYSTEM:	NOT REQUIRED
$F = 450'$ (OPEN BUILDING PERIMETER)			
$P = 450'$ (BUILDING PERIMETER)			
$M = 30'$ (WIDTH OF PUBLIC WAY)			

INDEX OF DRAWINGS

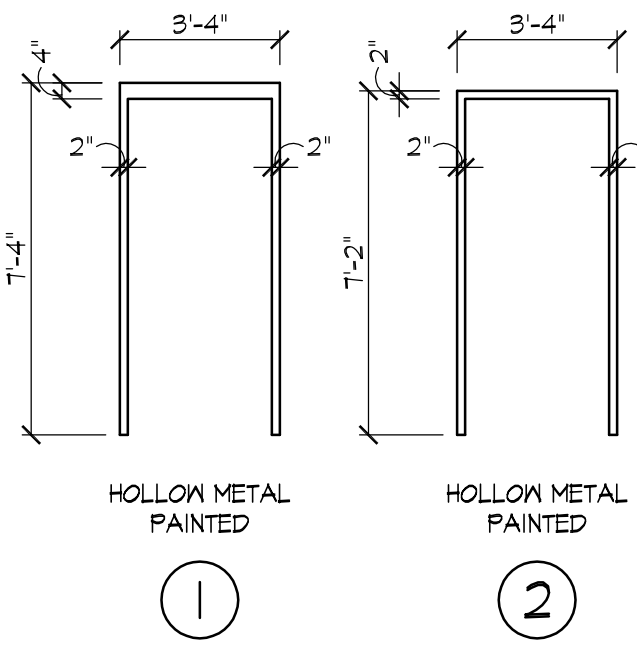
ARCHITECTURAL	
C1.01	SITE PLAN, NOTES AND LEGEND
A1.01	FIRST FLOOR PLAN, SCHEDULES AND DETAILS
A2.01	ENLARGED PLANS, SCHEDULES AND DETAILS
A5.01	WALL SECTIONS
A5.02	BUILDING SECTIONS, WALL SECTION AND DETAILS
S1.01	FOUNDATION PLAN, NOTES AND DETAILS
S1.02	STRUCTURAL NOTES AND DETAILS
P1.01	PLUMBING NOTES AND DETAILS
M1.01	MECHANICAL PLAN
E1.01	ELECTRICAL LIGHTING PLAN, NOTES, AND FIXTURE SCHEDULE
E1.02	ELECTRICAL POWER PLAN, PANEL SCHEDULE, AND POWER RISER DIAGRAM

Coded Notes

- EXISTING UTILITY POLE BY ELECTRICITY COMPANY.
- EXISTING WEATHER PROOF 400A, 1PH SERVICE DISCONNECT MOUNTED AT POLE.
- EXISTING UNDERGROUND SERVICE ENTRANCE CABLE, IN 2" CONDUIT TO EXISTING BUILDING.
- EXISTING SANITARY SEPTIC SYSTEM AND LEACH FIELD TO REMAIN. PROTECT UNDERGROUND PIPING FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UNDERGROUND ELECTRIC SERVICE FROM EXISTING POLE TO NEW BUILDING BY ELECTRIC UTILITY COMPANY.
- EXISTING 8" THICKNESS OF ODOT #304 COMPACTED STONE
- EXTEND 8" PVC STORM DRAIN LINE TO SPLASH BLOCK AT EXISTING DRAINAGE SWALE.
- EXISTING PAD MOUNTED TRANSFORMER BY ELECTRIC UTILITY COMPANY.
- APPROXIMATE LOCATION OF EXISTING SANITARY LINE.
- NEW 2" DIAMETER PVC SANITARY LINE FROM GRINDER PUMP TO EXISTING SEPTIC SYSTEM. LOCATE CLEAN-OUTS AT MAXIMUM 150' INTERVALS.
- NEW 200 AMP UNDERGROUND ELECTRIC SERVICE FROM EXISTING BUILDING #5. SEE ELECTRICAL DRAWINGS, SHEETS E1.01 AND E1.02
- OIL AND SEDIMENT INTERCEPTOR AND SEWAGE EJECTOR. SEE SHEET P1.01
- PROPANE TANK WITH BOLLARDS, FENCING, OR OTHER APPROPRIATE PROTECTION, LOCATED, FURNISHED, AND INSTALLED BY OTHERS.

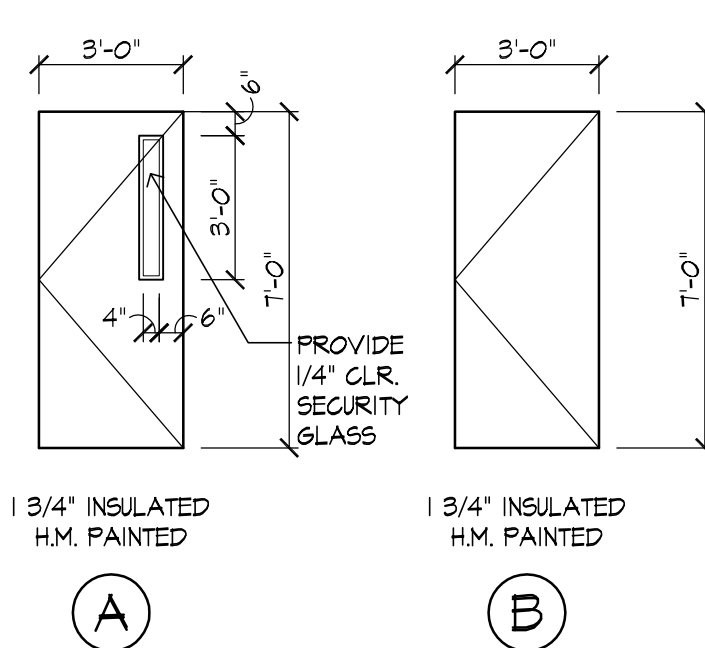


Floor Plan
INDICATES DIRECTION OF SLOPE OF CONCRETE SLAB
1/8"=1'-0"

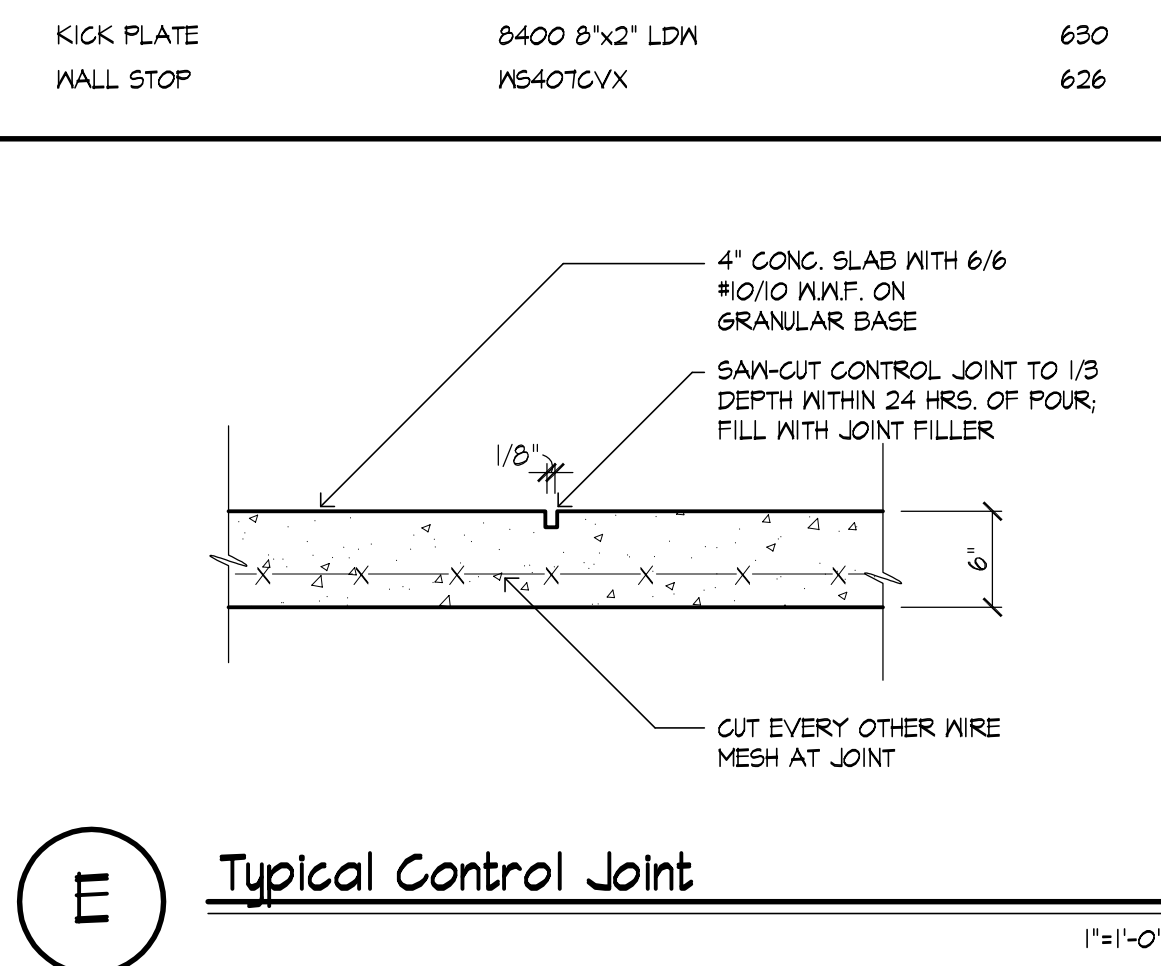
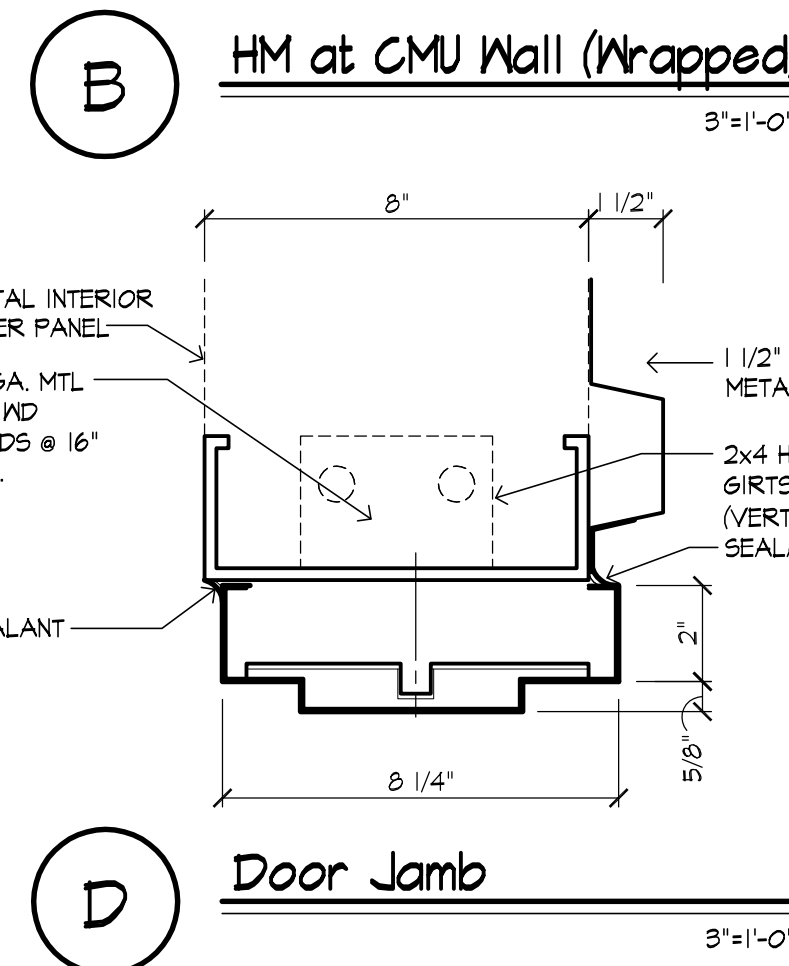
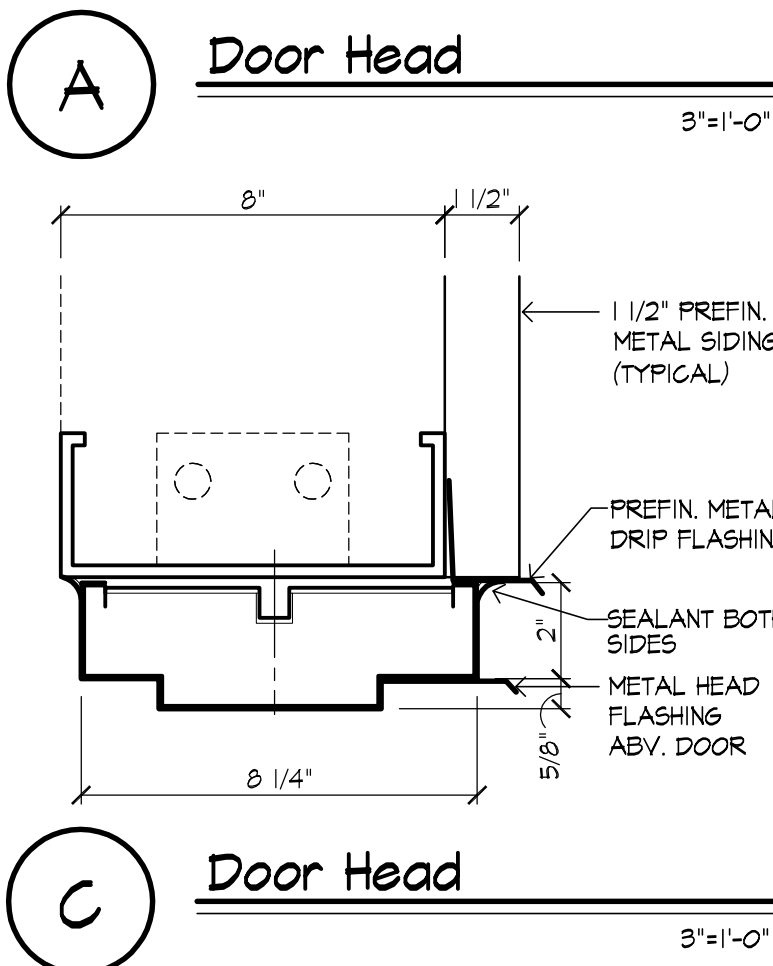
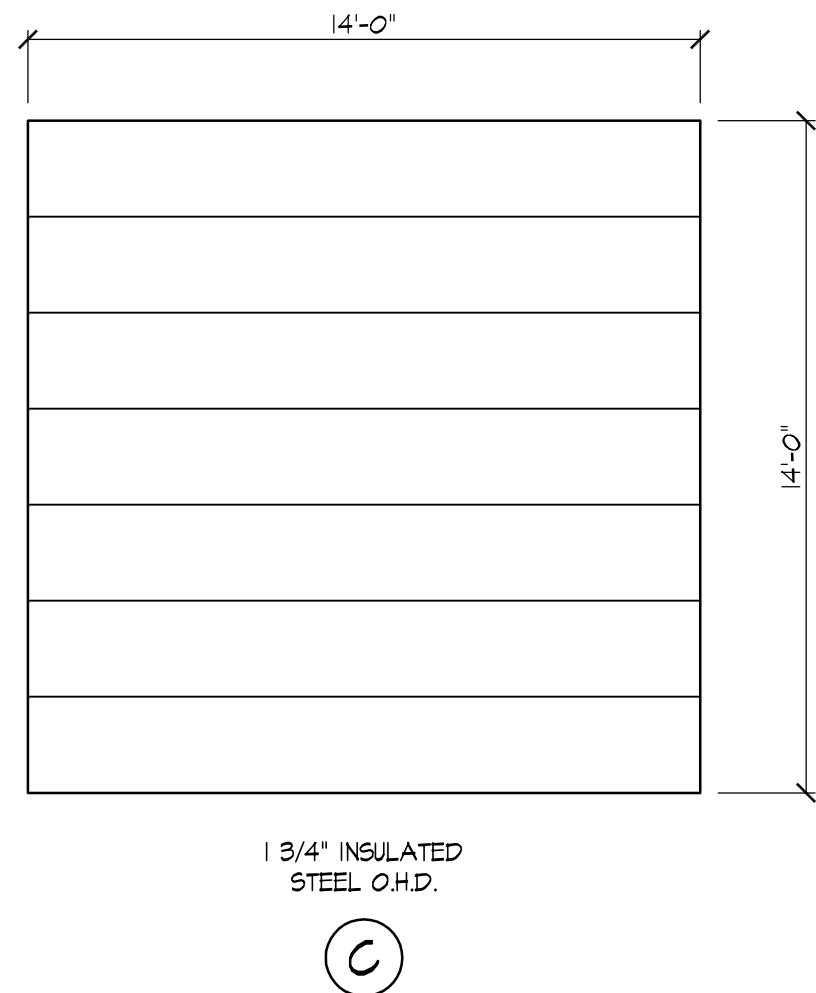


Frame Types

1/4"=1'-0"



Door Types



Finish Schedule										
Mark	Room	Floor	Base	W A L L S				Ceiling	Clg. Ht.	Remarks
100	SALT STORAGE	CONC-1	NONE	CONC-2	CONC-2	CONC-2	CONC-2	EXP-1	VARIES	(1)(2)
101	WASH BAY	CONC-1	NONE	CB-1	CB-1	CONC-2	MTL-L	EXP-1	VARIES	(1)
102	HALLWAY	CONC-1	RB-1	CB-1	CB-1	CONC-2	MTL-L	EXP-1	8'-0"	(1)
103	TOILET	CONC-1	RB-1	CB-1	CB-1	CONC-2	MTL-L	EXP-1	8'-0"	(1)
104	BREAK ROOM	CONC-1	RB-1	CB-1	MTL-L	CONC-2	CB-1	EXP-1	8'-0"	(1)
105	MECHANICAL	CONC-1	NONE	CB-1	MTL-L	CONC-2	CB-1	EXP-1	8'-0"	(1)
106	EQUIPMENT STORAGE	CONC-1	NONE	MTL-L	MTL-L	CONC-2	MTL-L	EXP-1	VARIES	(1)(2)
M200	MEZZANINE	CONC-1	NONE	--	MTL-L	CONC-2	CB-1	EXP-1	VARIES	(1)(2)

Finish Schedule Notes

- PAINT EXPOSED STRUCTURAL STEEL, BAR JOISTS, CONDUIT, METAL DUCTWORK, ETC. THAT WILL REMAIN IN VIEW IN THE FINISHED STRUCTURE.
- INSTALL METAL LINER PANEL FROM TOP OF CONCRETE WALLS TO ROOF STRUCTURE ABOVE.

Finish Schedule Legend

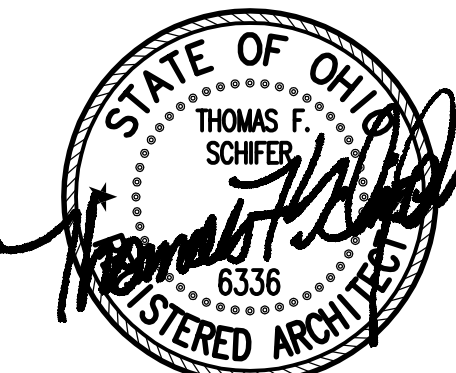
Key	Item	Specification
CB-1	Concrete Block	Concrete Block, Paint
CONC-1	Concrete	Clign and Seal Concrete Floor Slab See Specifications
RB-1	Resilient Base	6" Resilient Base, 1/8" Thickness, Rapped Match Notes
EXP-1	Exposed Structure	Exposed Structure Above, Paint Exposed Structure
CONC-2	Concrete	Cast-in-Place Concrete Walls
MTL-L	Liner Panel	Factory Finished Corrugated Metal Liner Panel to T-6" A.F.F. Unless Noted Otherwise

Door Schedule

DOOR MARK	DOOR						FRAME				HDM SET NO	LABEL	REMARKS
	SIZE		MATERIAL	TYPE	GLASS		MATERIAL	DETAILS					
								TYPE	HEAD/SILL	JAMB			
	THK	W.			H.								
101	3'-0" x T'-0"	1 3/4"	HM	B			HM	2	C	D	1		
101A	3'-0" x T'-0"	1 3/4"	HM	A	4'	36"	HM	1	A	B	3		
103	3'-0" x T'-0"	1 3/4"	HM	B			HM	1	A	B	4		
104	3'-0" x T'-0"	1 3/4"	HM	A	4'	36"	HM	1	A	B	3		
105	3'-0" x T'-0"	1 3/4"	HM	B			HM	1	A	B	3		
106	3'-0" x T'-0"	1 3/4"	HM	B			HM	2	C	D	1		
106A	3'-0" x T'-0"	1 3/4"	HM	B			HM	2	C	D	2		
106B	3'-0" x T'-0"	1 3/4"	HM	B			HM	2	C	D	2		

Door Hardware Sets

HM SET 01 (DOORS 101, 106)				HM SET 02 (DOORS 106A, 106B)				HM SET 03 (DOORS 101A, 104, 105)				HM SET 04 (DOOR 103)			
3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP
1	EA	ENTRANCE LOCKSET	ND43PD (VANDLGARD) RHODES	1	EA	EXIT LOCK	ND60PD, RHODES	1	EA	CLASSROOM LOCK SET	NDTOPD, RHODES	1	EA	PRIVACY SET	ND405
1	EA	SURFACE CLOSER	4111MC	1	EA	SURFACE CLOSER	4111MC	1	EA	SURFACE CLOSER	4011 / 4111MC	1	EA	SURFACE CLOSER	4011MC/4111MC
2	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW
1	EA	SWEEP	200NA	1	EA	SWEEP	200NA	1	EA	SWEEP	200NA	1	EA	SWEEP	200NA
1	EA	SEALS	110NA	1	EA	SEALS	110NA	1	EA	SEALS	110NA	1	EA	SEALS	110NA
1	EA	DRIP CAP	17	1	EA	DRIP CAP	17	1	EA	DRIP CAP	17	1	EA	DRIP CAP	17
1	EA	THRESHOLD	4425 (CAST ALUMINUM)	1	EA	THRESHOLD	4425 (CAST ALUMINUM)	1	EA	THRESHOLD	4425 (CAST ALUMINUM)	1	EA	THRESHOLD	4425 (CAST ALUMINUM)
3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP
1	EA	GLASSROOM LOCK SET	NDTOPD, RHODES	1	EA	GLASSROOM LOCK SET	NDTOPD, RHODES	1	EA	GLASSROOM LOCK SET	NDTOPD, RHODES	1	EA	GLASSROOM LOCK SET	NDTOPD, RHODES
1	EA	SURFACE CLOSER	4011 / 4111MC	1	EA	SURFACE CLOSER	4011 / 4111MC	1	EA	SURFACE CLOSER	4011 / 4111MC	1	EA	SURFACE CLOSER	4011 / 4111MC
1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW
1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX
1	EA	FLOOR STOP	FS 444 (DOOR 105 ONLY)	1	EA	FLOOR STOP	FS 444 (DOOR 105 ONLY)	1	EA	FLOOR STOP	FS 444 (DOOR 105 ONLY)	1	EA	FLOOR STOP	FS 444 (DOOR 105 ONLY)
3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP	3	EA	HINGE	5BBI 4.5 x 4.5 NRP
1	EA	PRIVACY SET	ND405	1	EA	PRIVACY SET	ND405	1	EA	PRIVACY SET	ND405	1	EA	PRIVACY SET	ND405
1	EA	SURFACE CLOSER	4011MC/4111MC	1	EA	SURFACE CLOSER	4011MC/4111MC	1	EA	SURFACE CLOSER	4011MC/4111MC	1	EA	SURFACE CLOSER	4011MC/4111MC
1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW	1	EA	KICK PLATE	8400 8"x2" LDW
1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX	1	EA	WALL STOP	NS40TCVX



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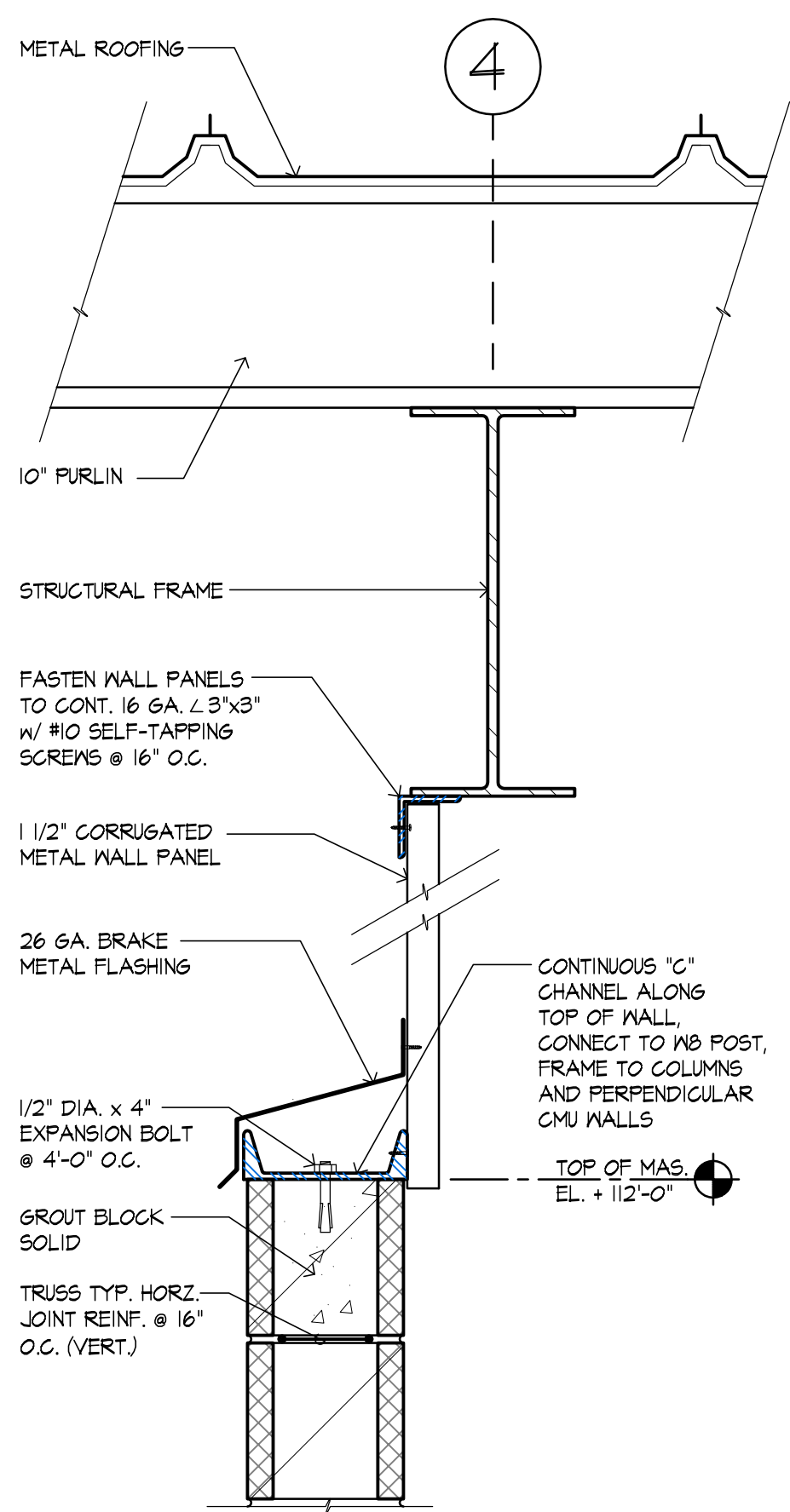
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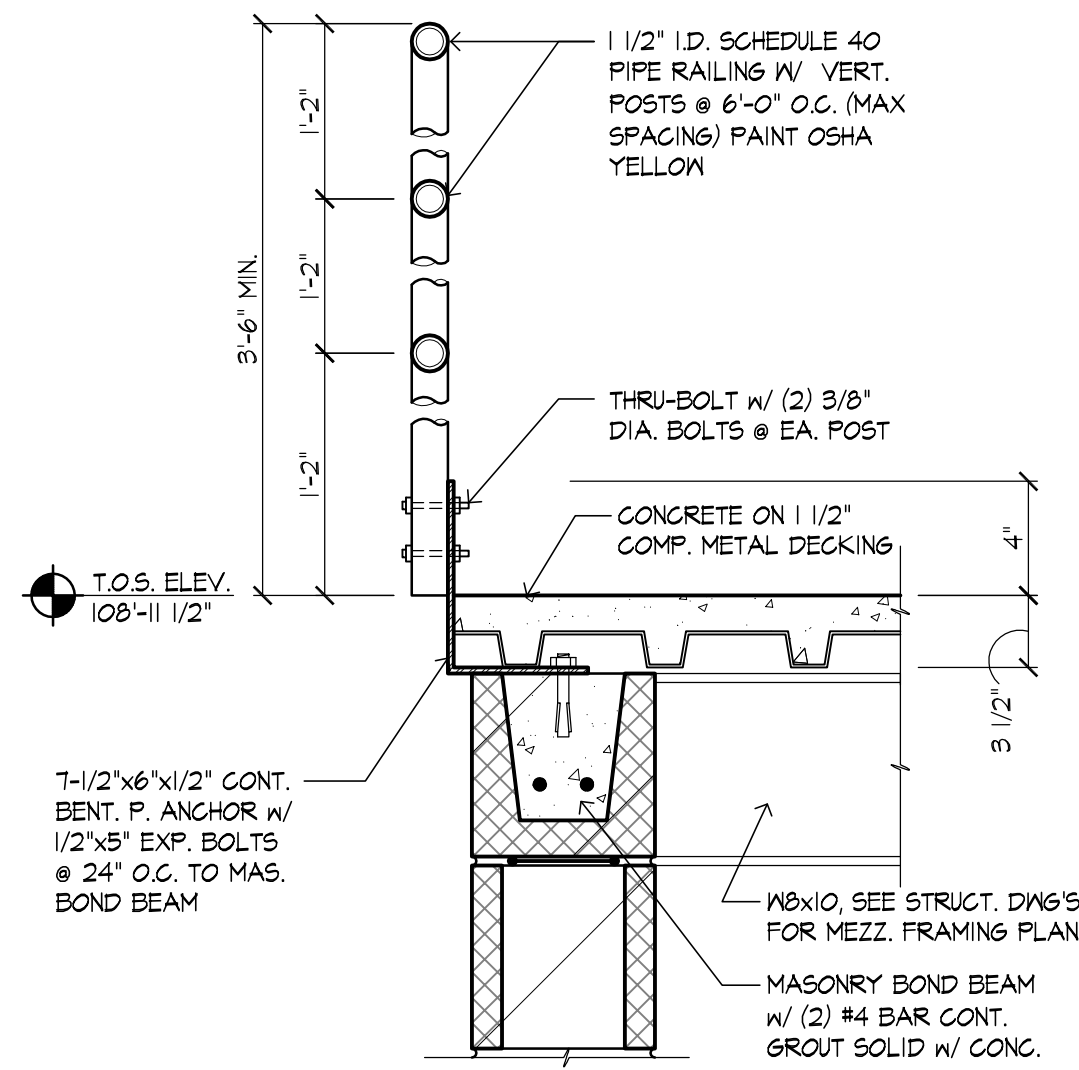
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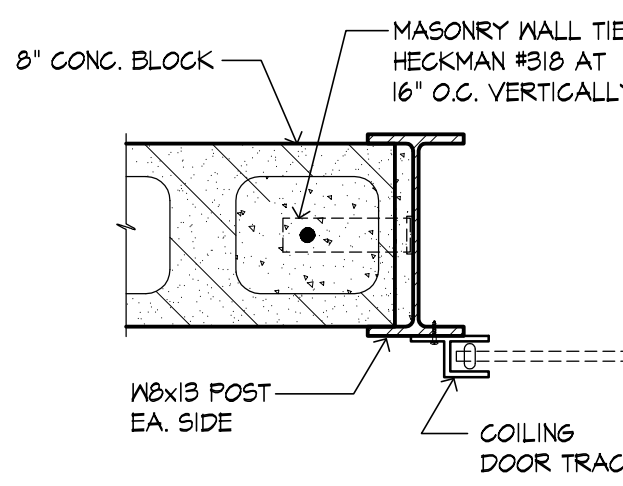
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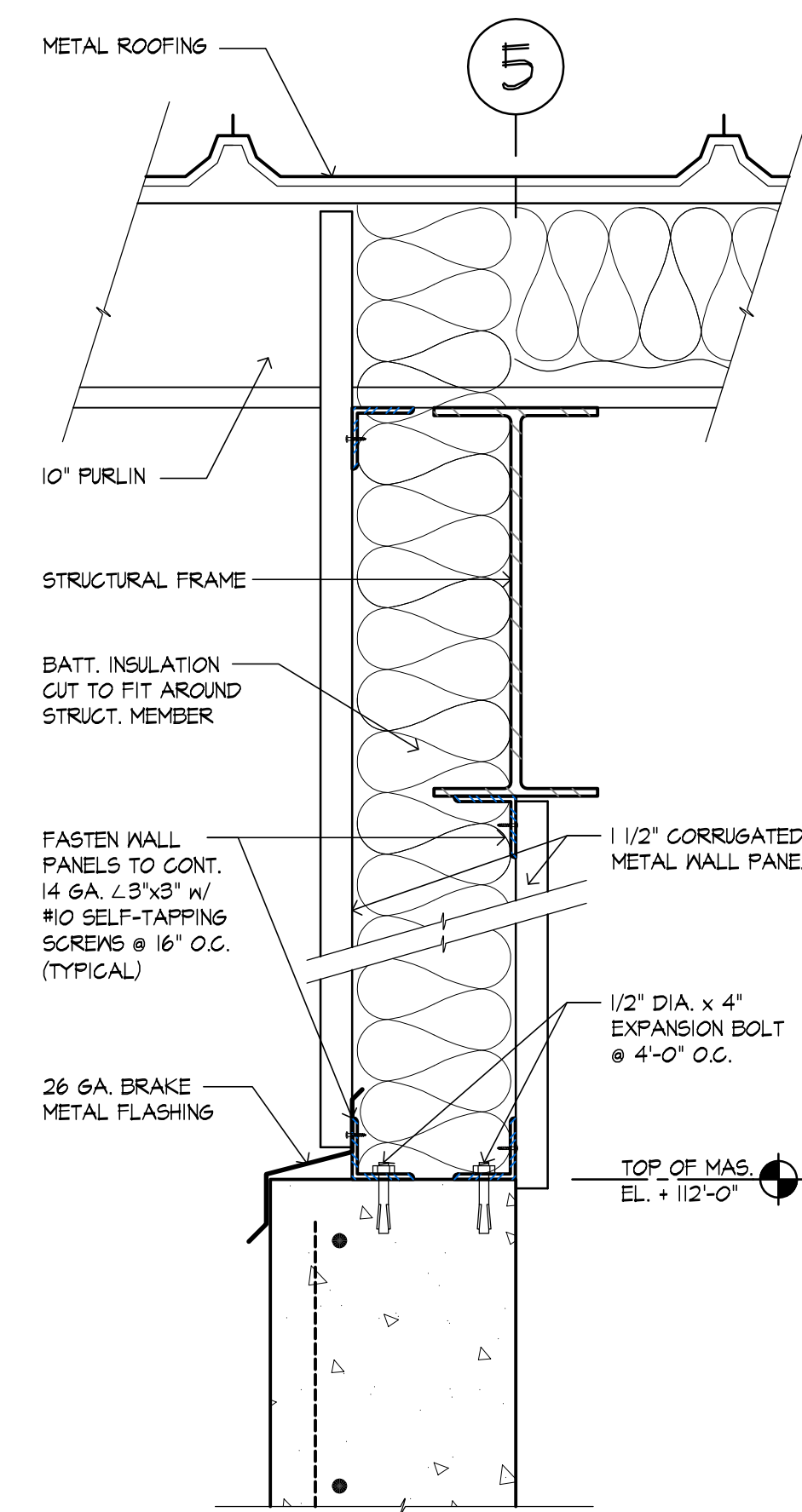
A Liner Panel
1-1/2"=1'-0"



B Pipe Railing @ Mezzanine
1-1/2"=1'-0"



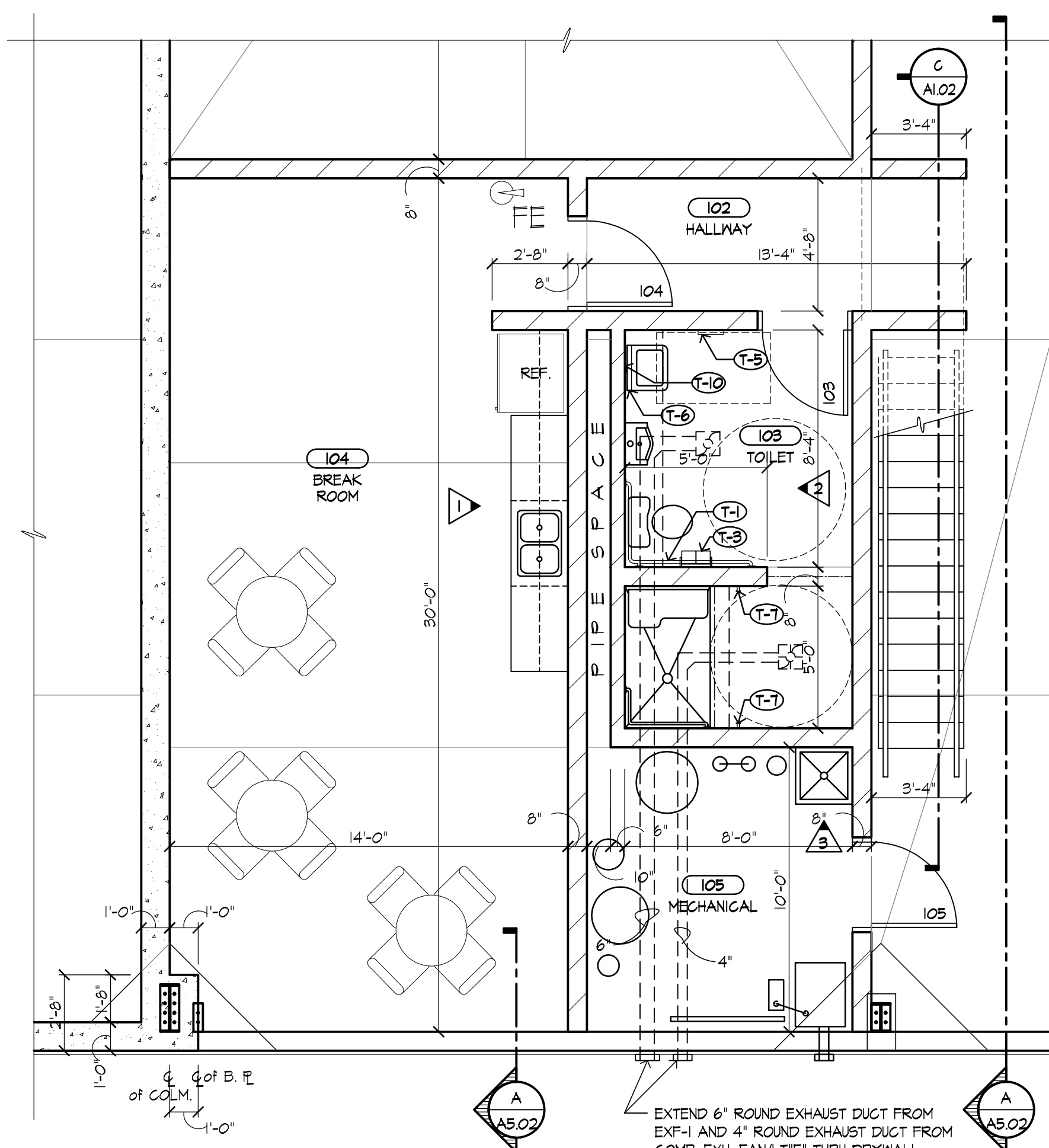
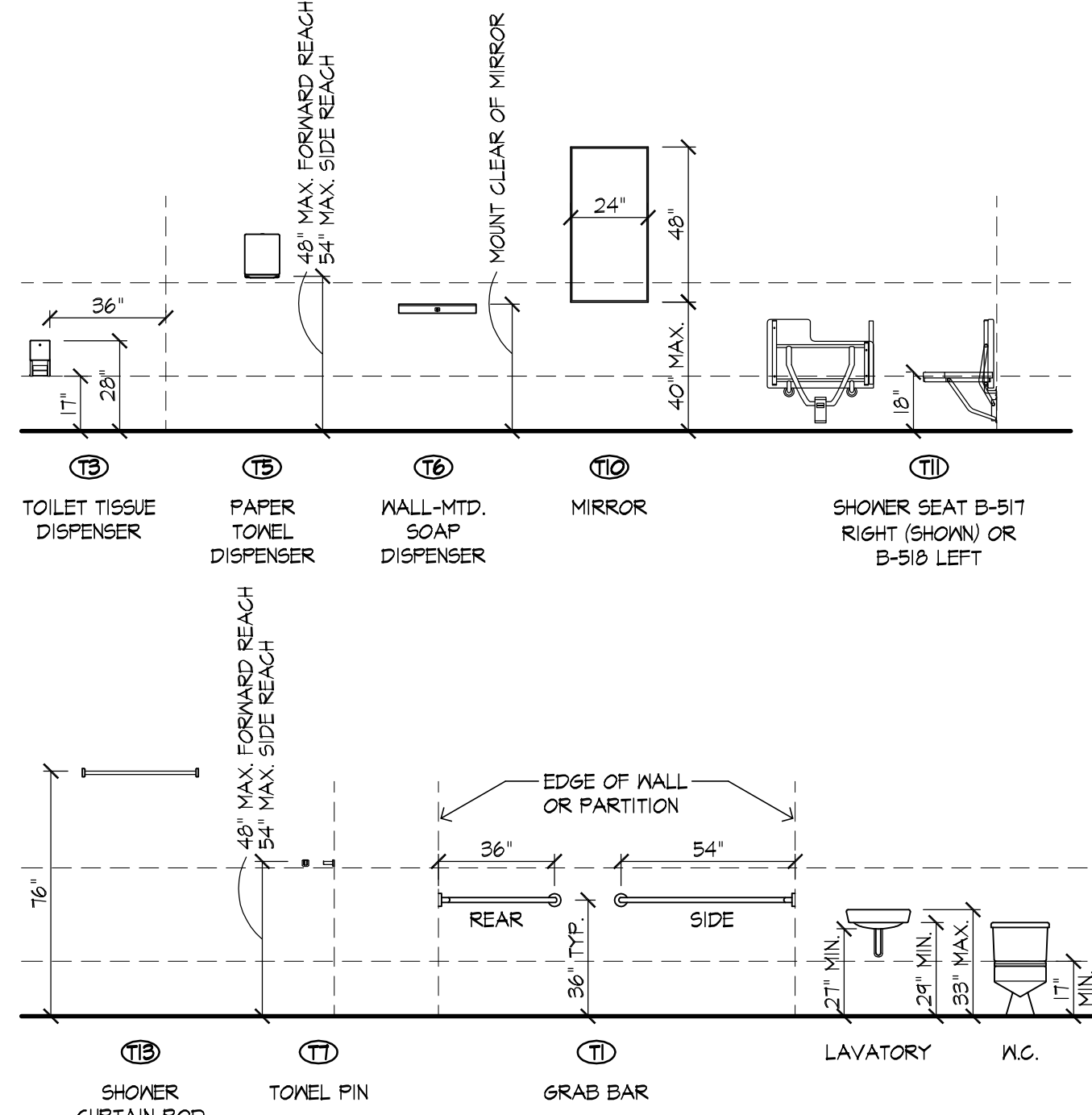
C Jamb @ Coiling Door
1-1/2"=1'-0"



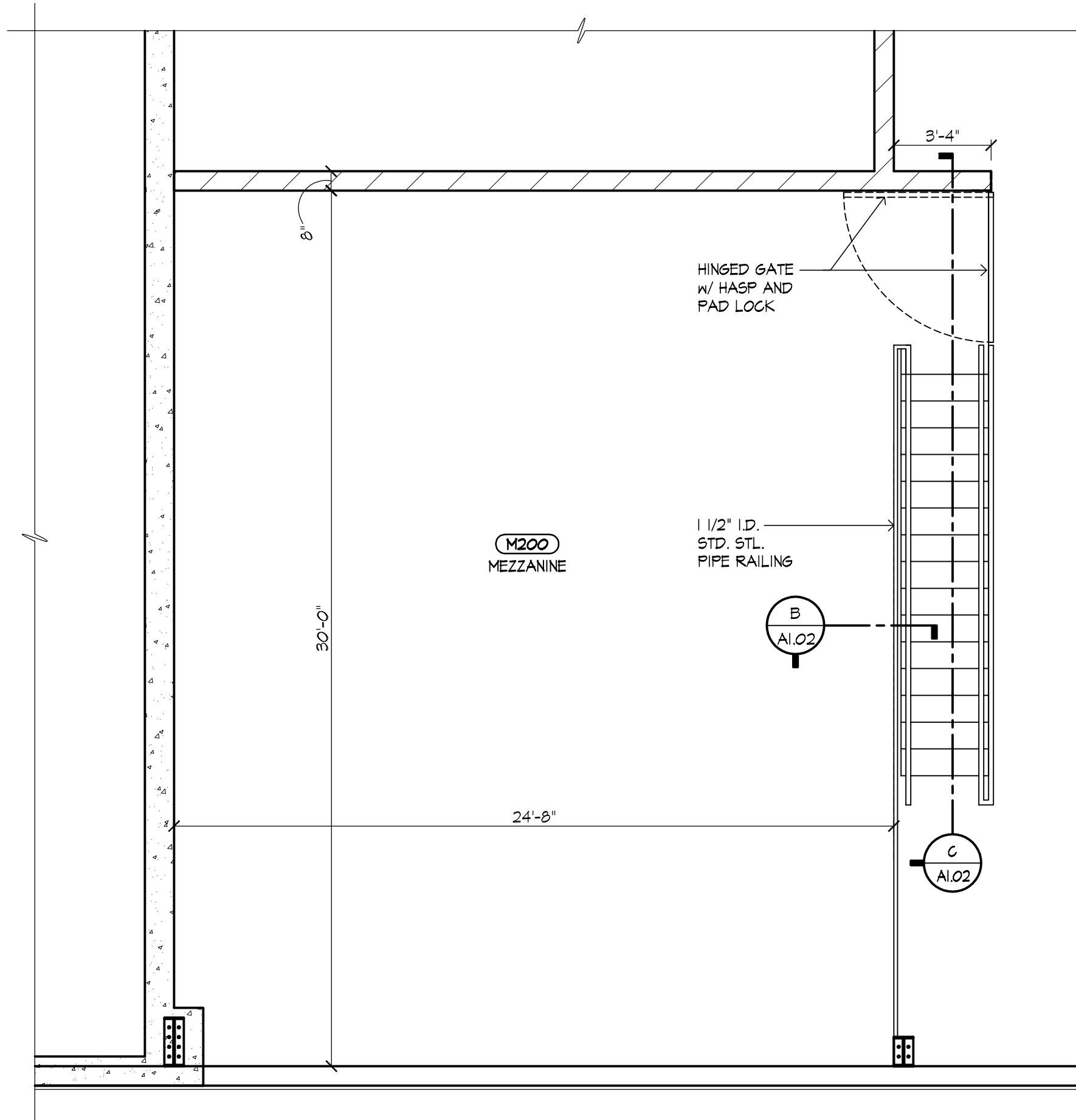
D Liner Panel
1-1/2"=1'-0"

Toilet Accessory Schedule				
Mark	Description	Manuf.	Model #	Remarks
(T-1)	GRAB BAR, 36"x54" L' SHAPE	BOBRICK	B-5837.99	MOUNTED AT 34" A.F.F.
(T-3)	TOILET TISSUE DISPENSER	BOBRICK	B-7686	SURFACE MOUNTED AT 19" A.F.F. AND 36" FROM REAR WALL
(T-5)	PAPER TOWEL DISPENSER	BOBRICK	B-262	MOUNT AT 48" A.F.F. TO BOTTOM OF UNIT
(T-6)	SOAP DISPENSER	BOBRICK	B-2014	WALL MOUNTED, SHELF STYLE, MOUNT AT BOTTOM EDGE OF MIRROR
(T-7)	TOWEL/ROBE PIN	BOBRICK	B-76717	SURFACE MOUNTED AT 54" A.F.F.
(T-10)	CHANNEL FRAME MIRROR (18"x36")	BOBRICK	B-165-1336	CONCEALED FASTENERS, MOUNT BOTTOM AT 38" A.F.F.

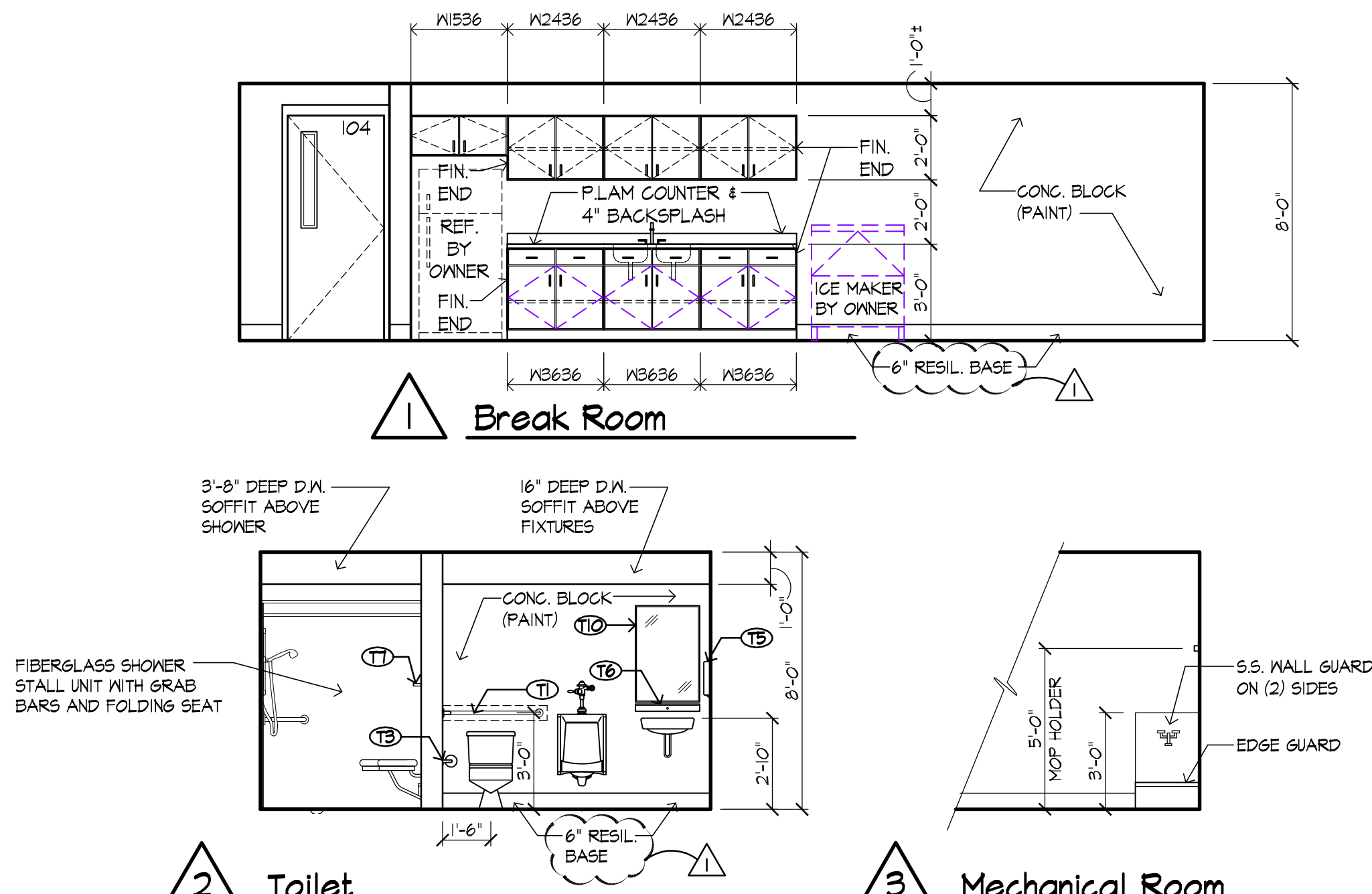
- CONTRACTOR TO PROVIDE CONCEALED BLOCKING FOR ALL TOILET ACCESSORY MOUNTINGS.
- ALL ACCESSORIES TO BE STAINLESS STEEL WITH SATIN FINISH.



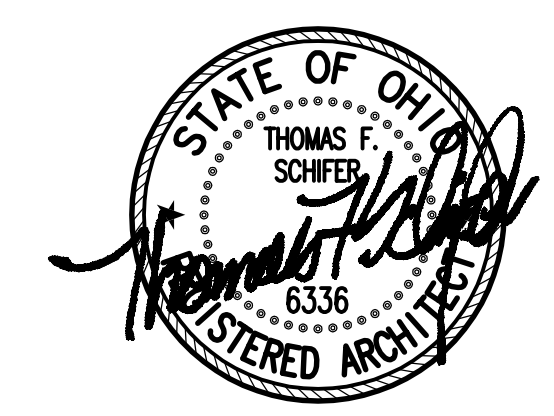
Enlarged Floor Plan
1/4"=1'-0"



Enlarged Mezzanine Floor Plan
1/4"=1'-0"



INTERIOR ELEVATIONS
1/4"=1'-0"



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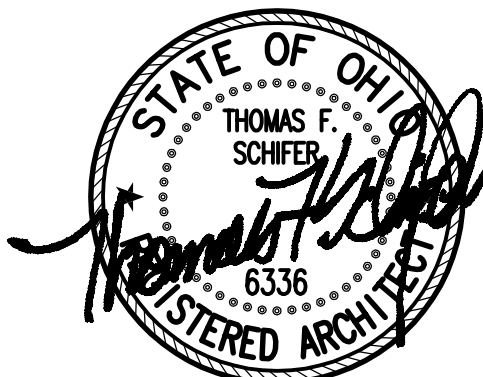
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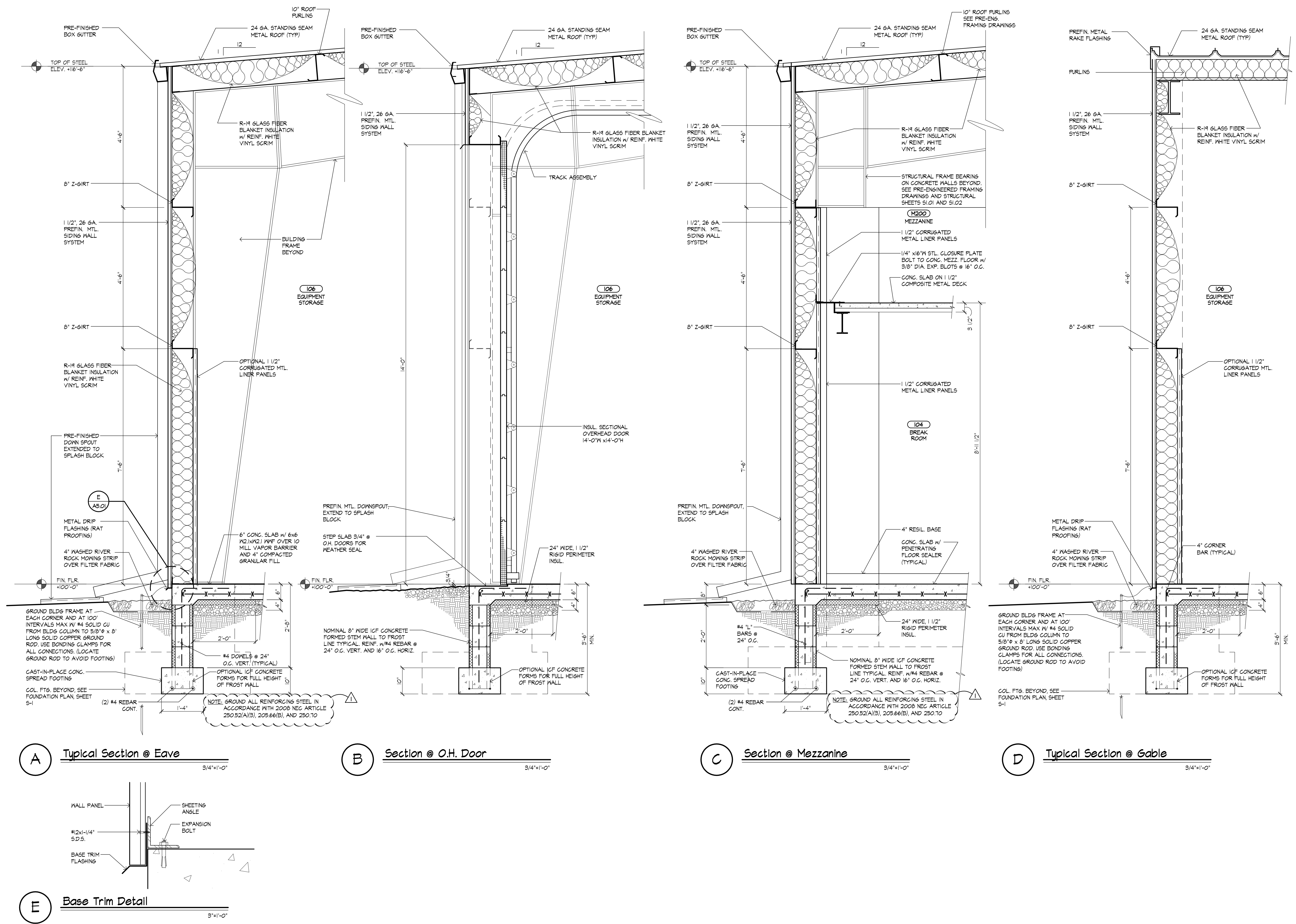
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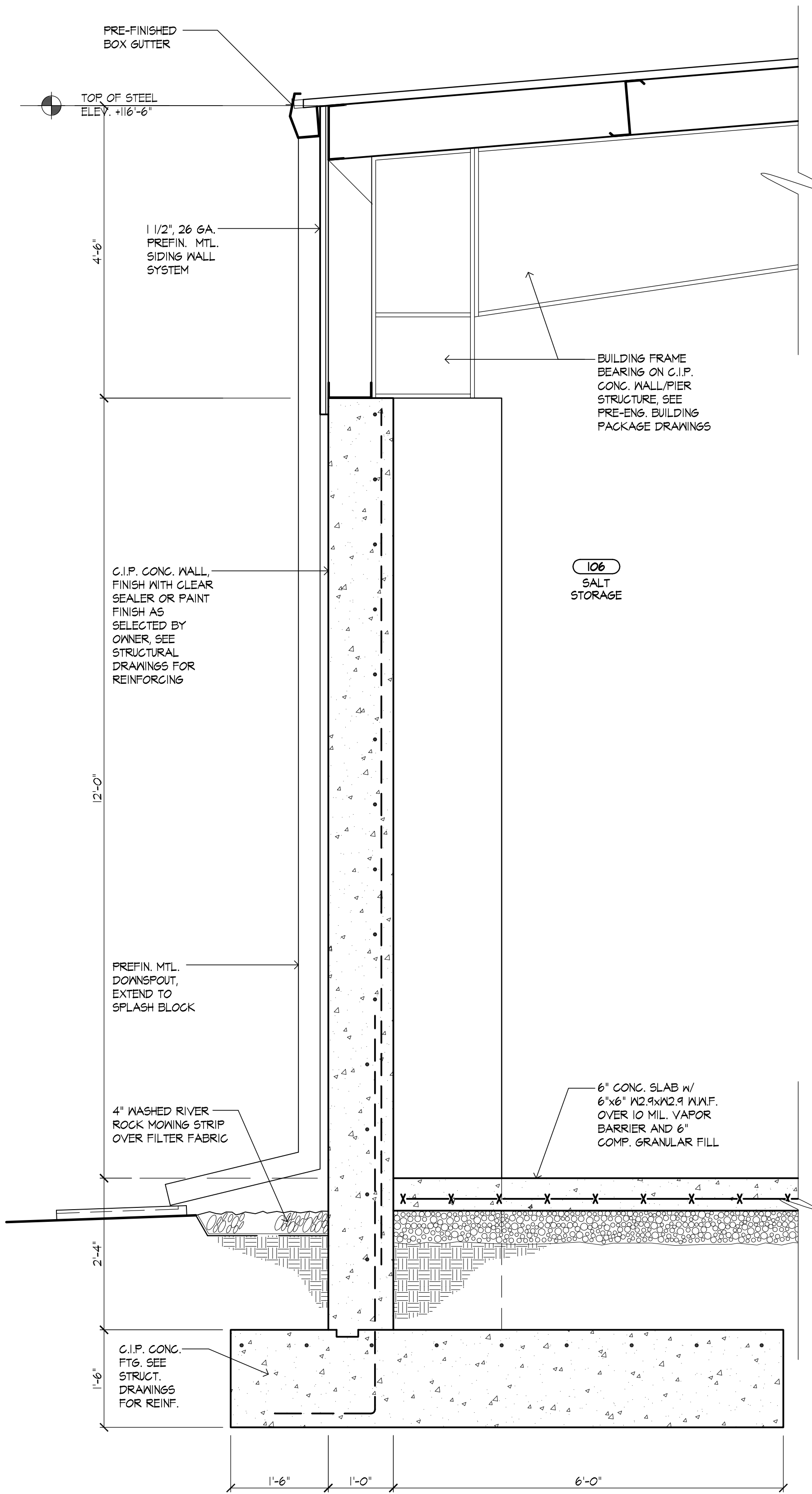
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GreenKeeper Salt Storage Building #5
GreenKeeper
1798 Marion Cardington Rd. East
Marion, Ohio

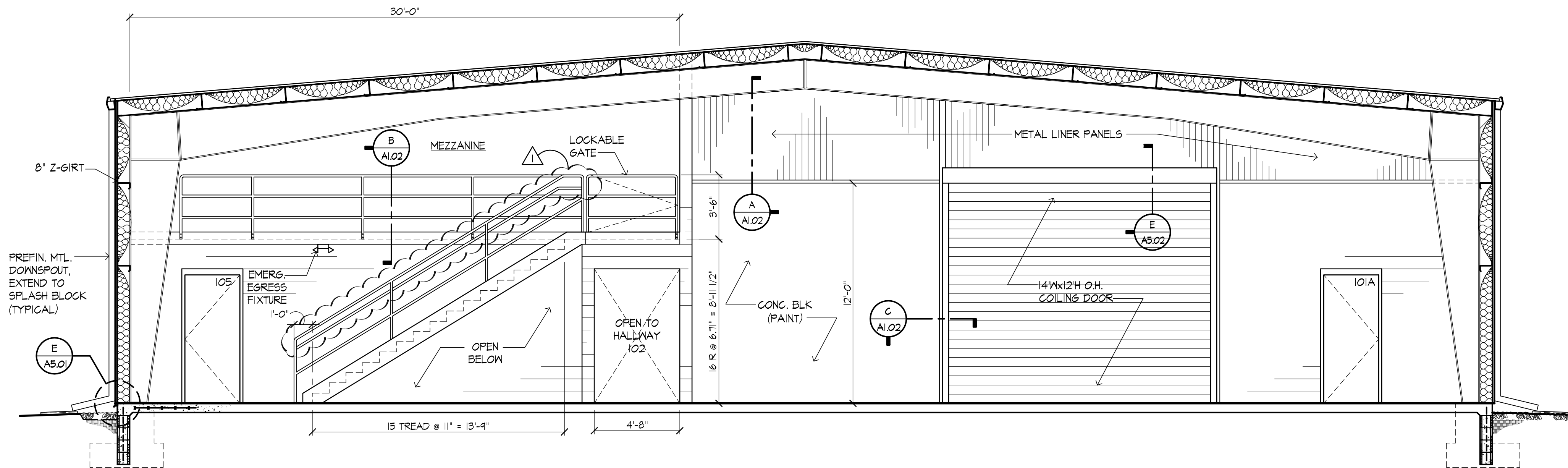
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REV. DATE:
9/24/08

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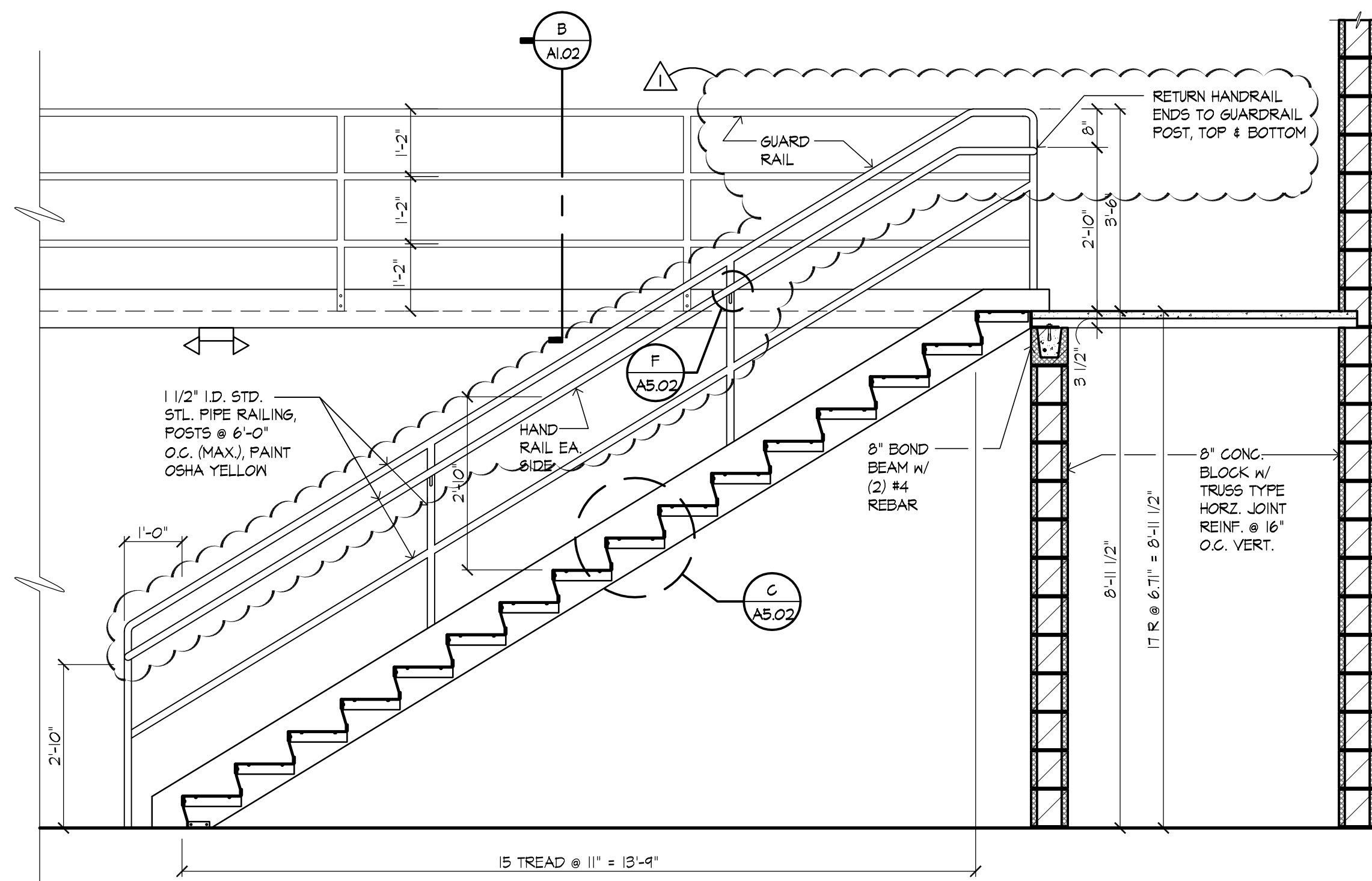




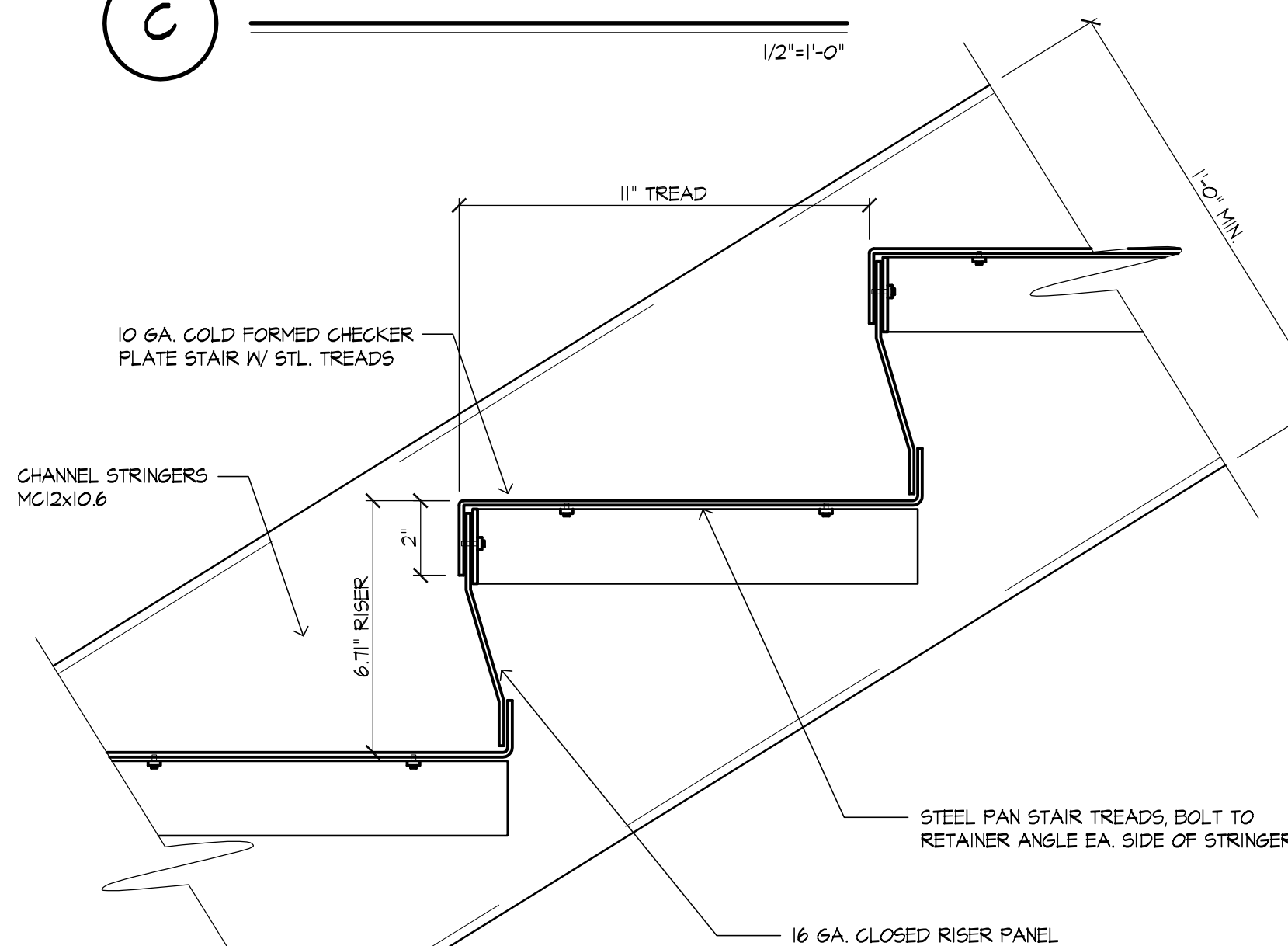
B Typical Section @ Eave
3/4"=1'-0"



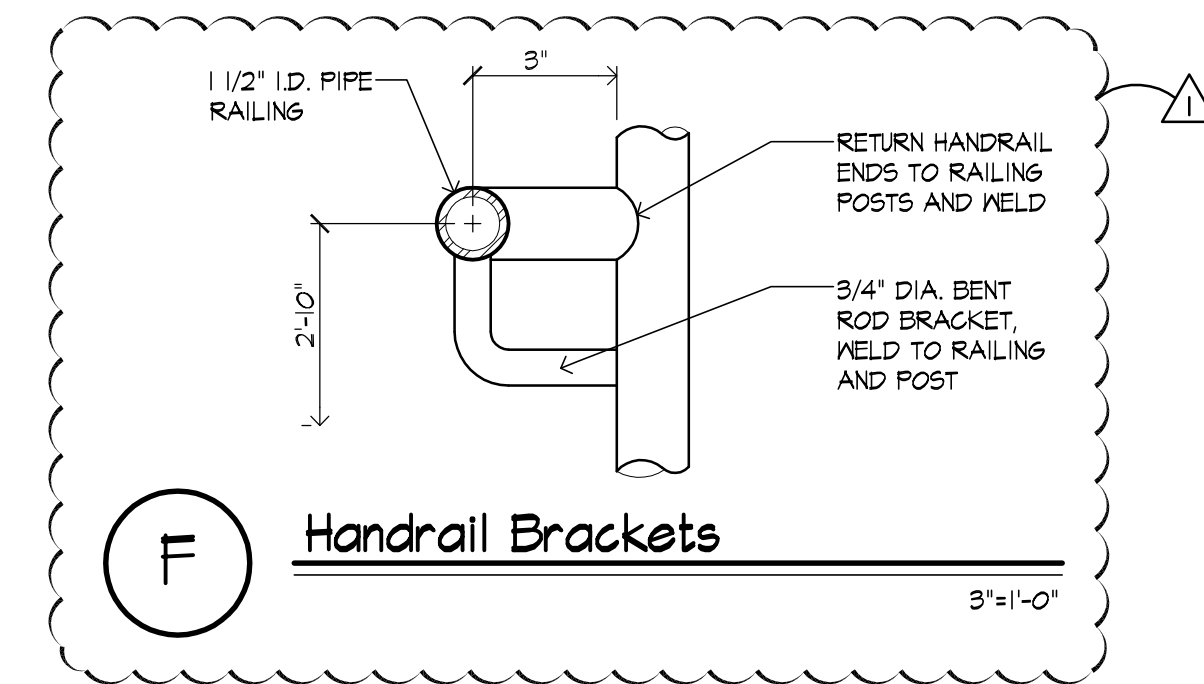
A Building Section
1/4"=1'-0"



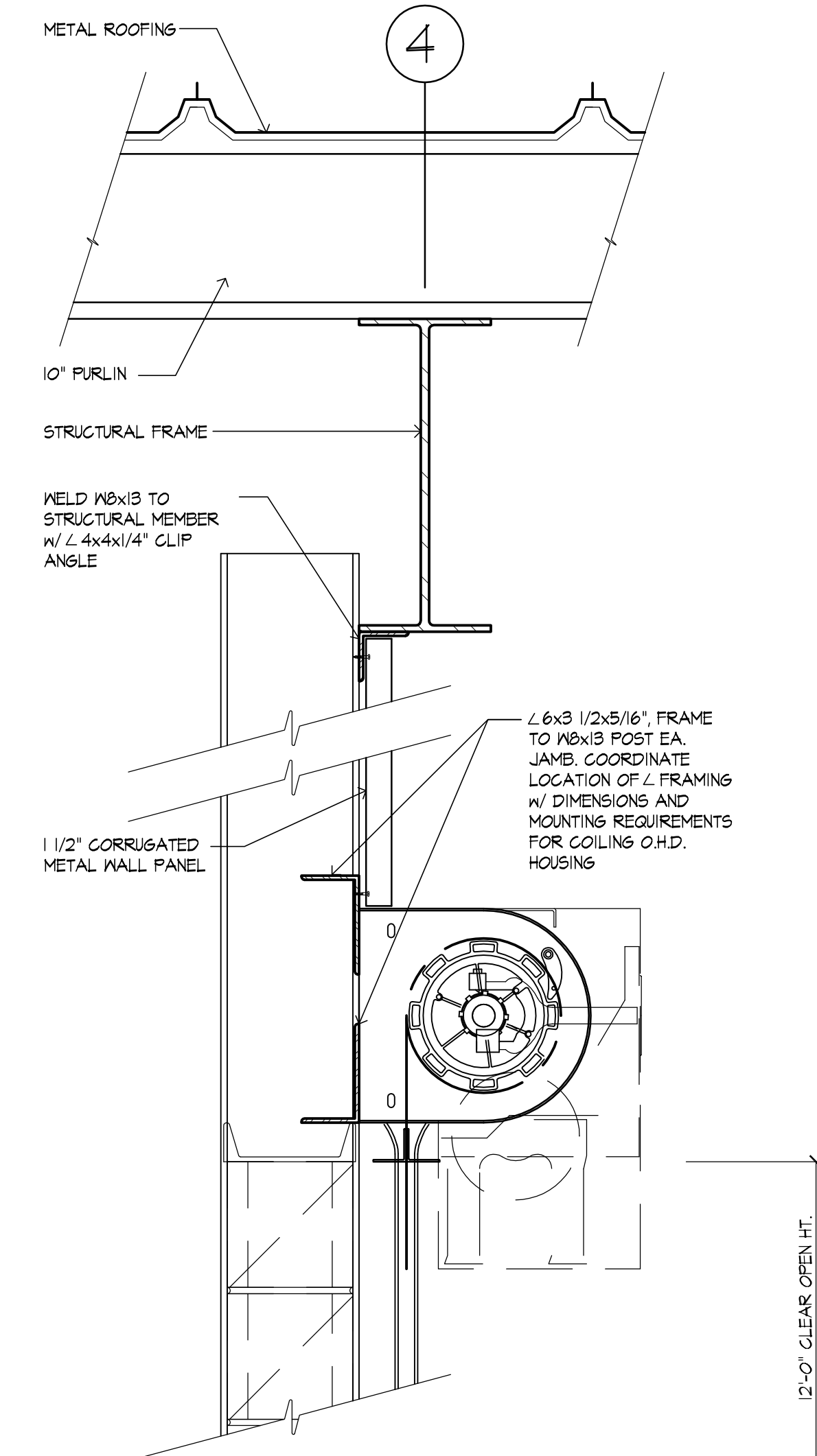
C Stair Detail
1/2"=1'-0"



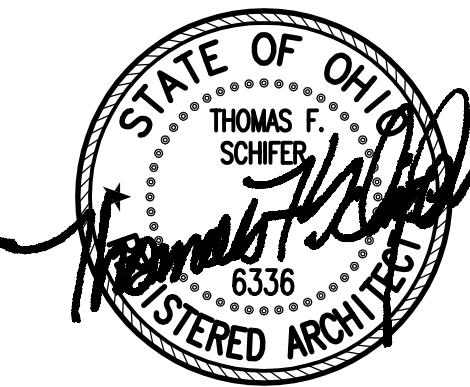
D Stair Detail
3"=1'-0"



F Handrail Brackets
3"=1'-0"



E Colling Door
1-1/2"=1'-0"



**JESTER
JONES
SCHIFER
ARCHITECTS**
LTD

Our Marion Office...
355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
E-mail: marion@jsa.net

Our Columbus Office...
At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
Fax: (614) 761-3996
E-mail: dublin@jsa.net

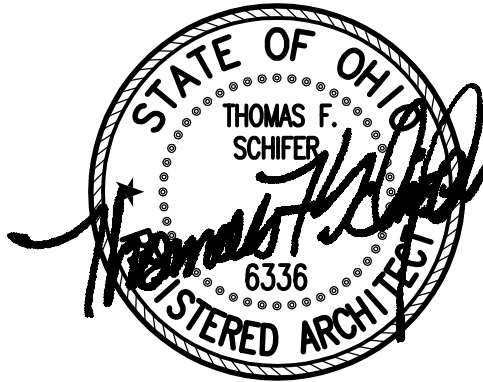
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GreenKeeper Salt Storage Building #5

GreenKeeper
1798 Marion Cardington Rd. East

08590_000
September 18, 2008
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JESTER
JONES
SCHIFER
ARCHITECTS
LTD

Our Marion Office...

355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
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At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
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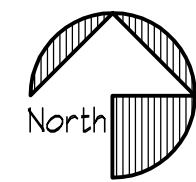
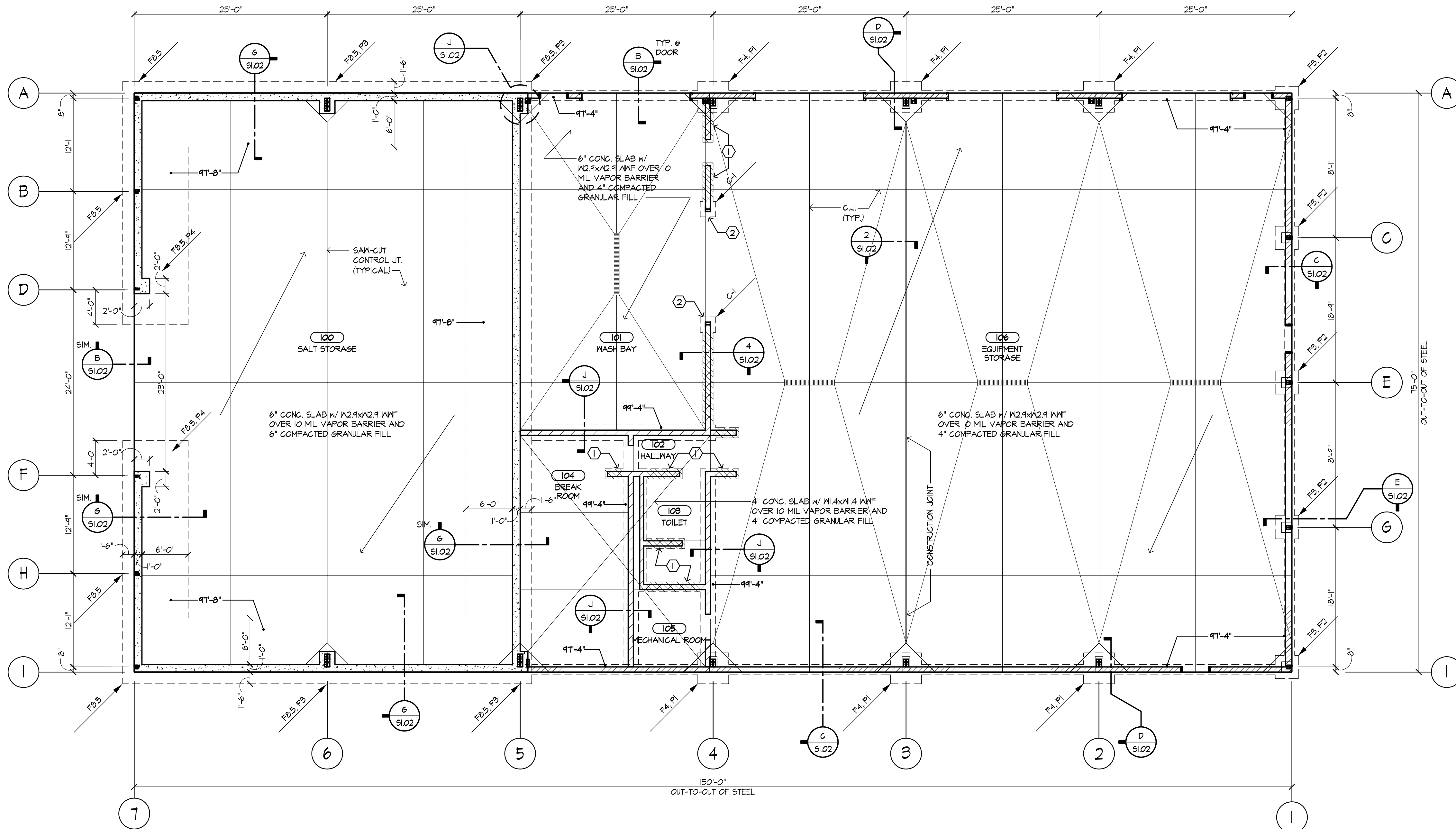
Marion, Ohio

GreenKeeper Salt Storage Building #5

GreenKeeper
1798 Marion Cardington Rd. East

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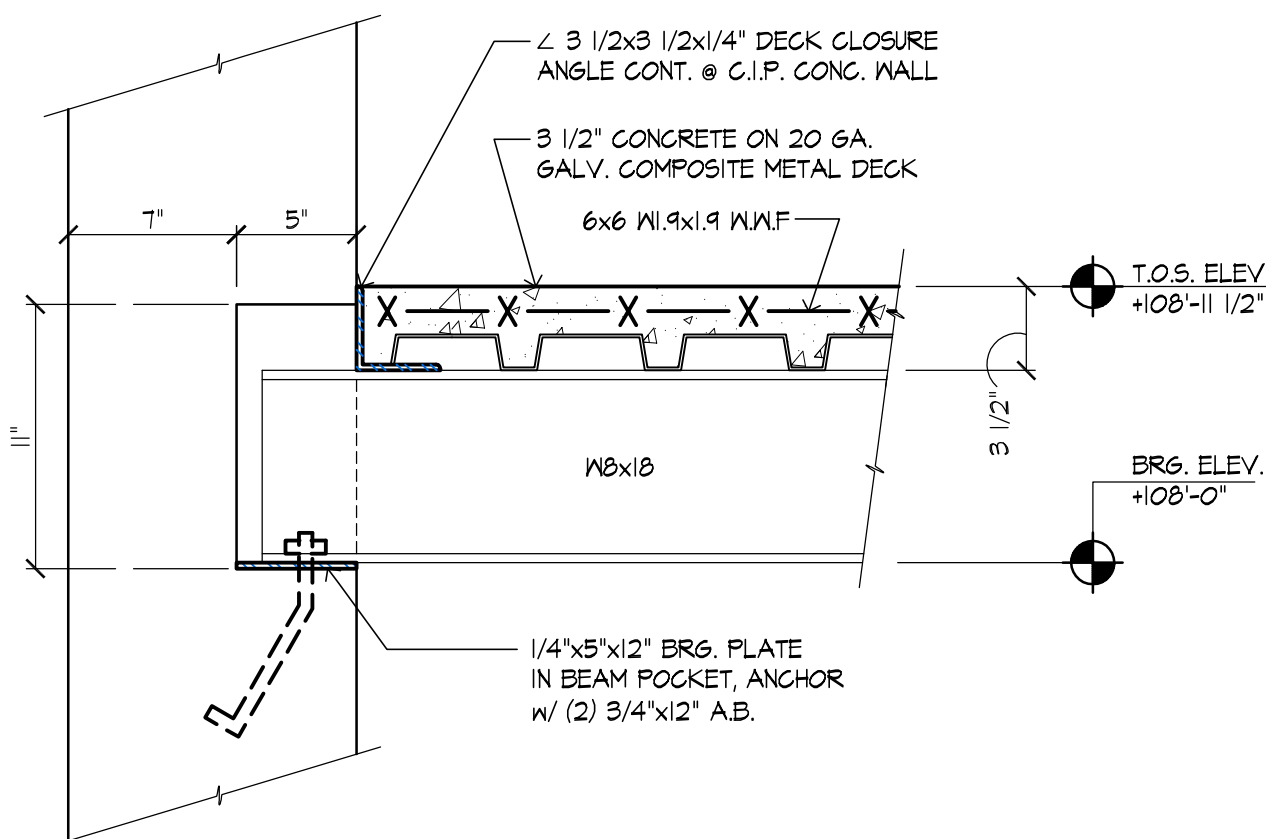
Foundation Plan

1/8"=1'-0"

9'-4" INDICATES TOP OF FOOTING ELEVATION. TOP OF FOOTING AND COLUMN PAD ELEVATION IS 9'-4" UNLESS NOTED OTHERWISE.

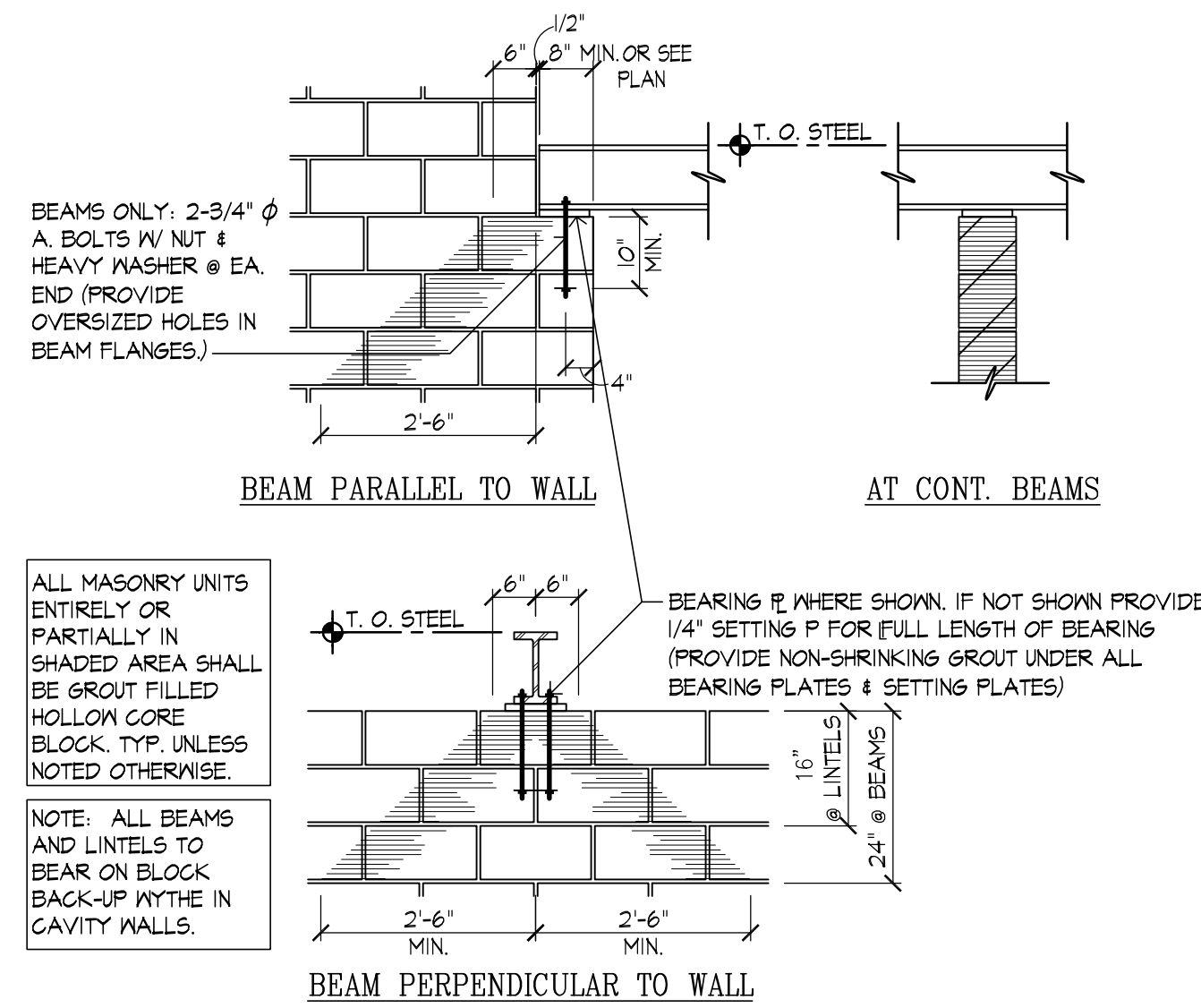
INDICATES THICKENED SLAB, SEE DETAIL 4/S1.02

INDICATES TRENCH DRAIN, SLOPE SLAB TO DRAIN. SEE SHEET A1.01 FOR GRADE ELEVATIONS AND PLUMBING PLAN, SHEET P1.01



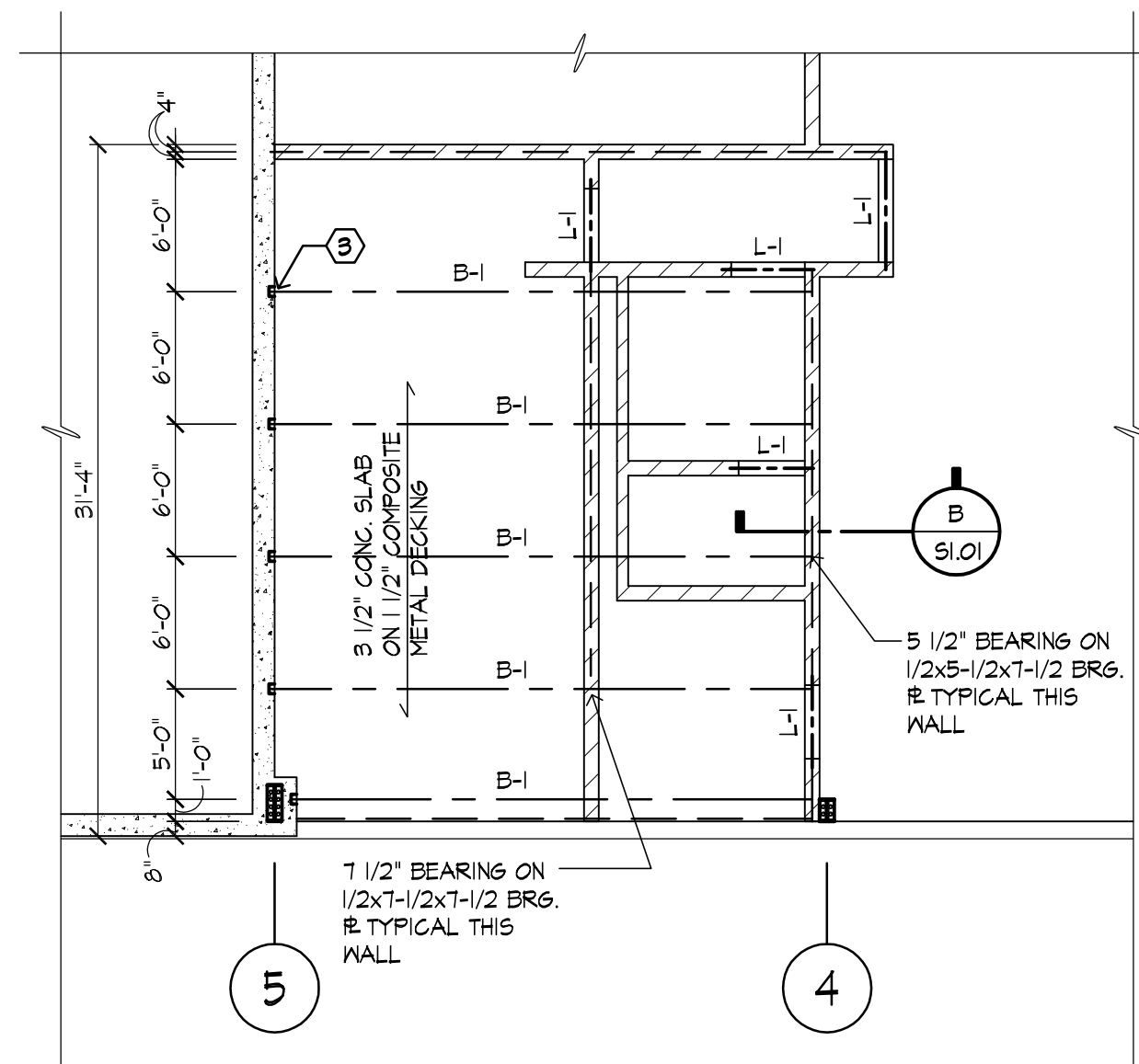
Beam Pocket

1/2"=1'-0"



Section: Masonry Bearing

1/2"=1'-0"



Mezzanine Framing Plan

1/8"=1'-0"

STRUCTURAL STEEL

1. THE STEEL FRAME AS DESIGNED IS A NON-SELF-SUPPORTING STEEL FRAME. COORDINATE THE ERECTION WITH THE INSTALLATION OF OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. THESE ELEMENTS INCLUDE SLABS, METAL DECK, MASONRY WALLS, CONCRETE WALLS AND LIGHT GAGE METAL FRAMING.

2. MATERIALS:

a. STRUCTURAL STEEL CHANNEL, ANGLES, PLATES, ETC.: ASTM A36, FY = 36 KSI; STRUCTURAL STEEL WIDE FLANGES: ASTM A572 OR ASTM A992, FY = 50 KSI; HIGH STRENGTH BOLTS: ASTM A325 OR A490; ANCHOR BOLTS: ASTM A307 OR A36; ELECTRODES: SERIES E70; EXPANSION BOLTS: HILTI 'KNIK-BOLT TZ', SIMPSON STRONG-TIE 'STRONG-BOLT' OR APPROVED EQUAL. ADHESIVE ANCHORS: HILTI 'HIT-ICE/HIT HY 150', SIMPSON STRONG-TIE 'ACRYLIC-TIE', ITA RED-HEAD 'AT ACRYLIC'.

3. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D11.1, UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:

- AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (MARCH 4, 2005).
- AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (MARCH 18, 2005).
- STRUCTURAL WELDING CODE, AWS D11.1, M. 2008 OF THE AMERICAN WELDING SOCIETY.
- SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS (JUNE 30, 2004).

4. CONNECTIONS:

a. FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED. CONNECTIONS TO BE SELECTED BY THE FABRICATOR TO DEVELOP THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER OR FORCES SHOWN ON PLANS, WHICHEVER IS GREATER. CONNECTIONS OF BEAMS FRAMING INTO A GIRDER FROM ONE SIDE ONLY, SUCH AS AT SPANDREL GIRDERS, SHALL BE MADE WITH DOUBLE ANGLE CONNECTIONS. UNLESS INDICATED OTHERWISE, ALL OTHER CONNECTIONS MAY BE DOUBLE ANGLE CONNECTIONS OR SINGLE PLATE SHEAR CONNECTIONS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.

5. MISCELLANEOUS:

- PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
- STEEL SUPPORTING OR CONNECTING TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON DRAWINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
- PROVIDE 1/4 INCH THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE.
- PROVIDE SHOP WELDED ANCHORS FOR ATTACHMENTS OF MASONRY. SPACING TO BE 16 INCHES ON COLUMNS AND BEAMS.
- PROVIDE WASHER AND HEAVY NUT AT ALL ANCHOR BOLTS (BOTH ENDS).
- MINIMUM BEAM BEARING ON MASONRY = 7-1/2 INCHES UNLESS NOTED OTHERWISE.
- EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS:
1/2 INCH DIAMETER BOLTS --- 3-1/2 INCHES EMBEDMENT
3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT

STEEL DECK

1. MATERIALS: 1 1/2 Inch Composite Floor Deck:

- Type: 1 1/2 inches deep, 20 gauge minimum.
- Finish: Galvanized.
- Structural Criteria:

Bare deck is to support net load of concrete (including excess due to deflection of deck and beams) plus 20 psf. Maximum deflection under this load is not to exceed L/80. Increase gage of deck where this would be exceeded.

d. Acceptable products include, but are not limited to:

- EC150 by Epic Metals Corporation.
- 15 SB by Wheeling Corrugating Company.
- CFD-15 by Consolidated Systems, Inc.
- 15 VLI by Vulcraft.
- 5) 15 inch Composite Floor Deck by Cordeck Building Solutions.

New Work Notes

- THICKENED SLAB, SEE DETAIL 4/S1.02
- OVERHEAD DOOR JAMB, N8x18 12"x12"x3/4" BASE PLATE. BEAR ON 24"x24"x12" THICK PAD AND FRAME TO BUILDING RIGID FRAME ABOVE, SEE DETAILS E/A5.02 AND C/A1.02
- BEAR N8x18 IN BEAM POCKET, SEE DETAIL A/S1.01 TYPICAL OF 5.

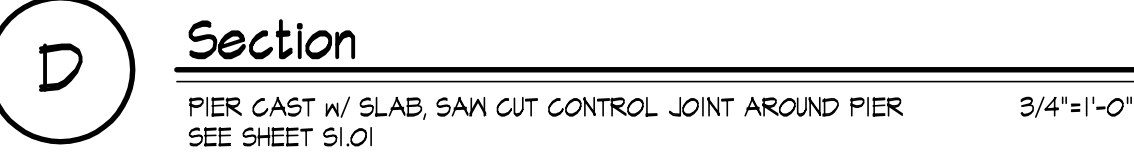
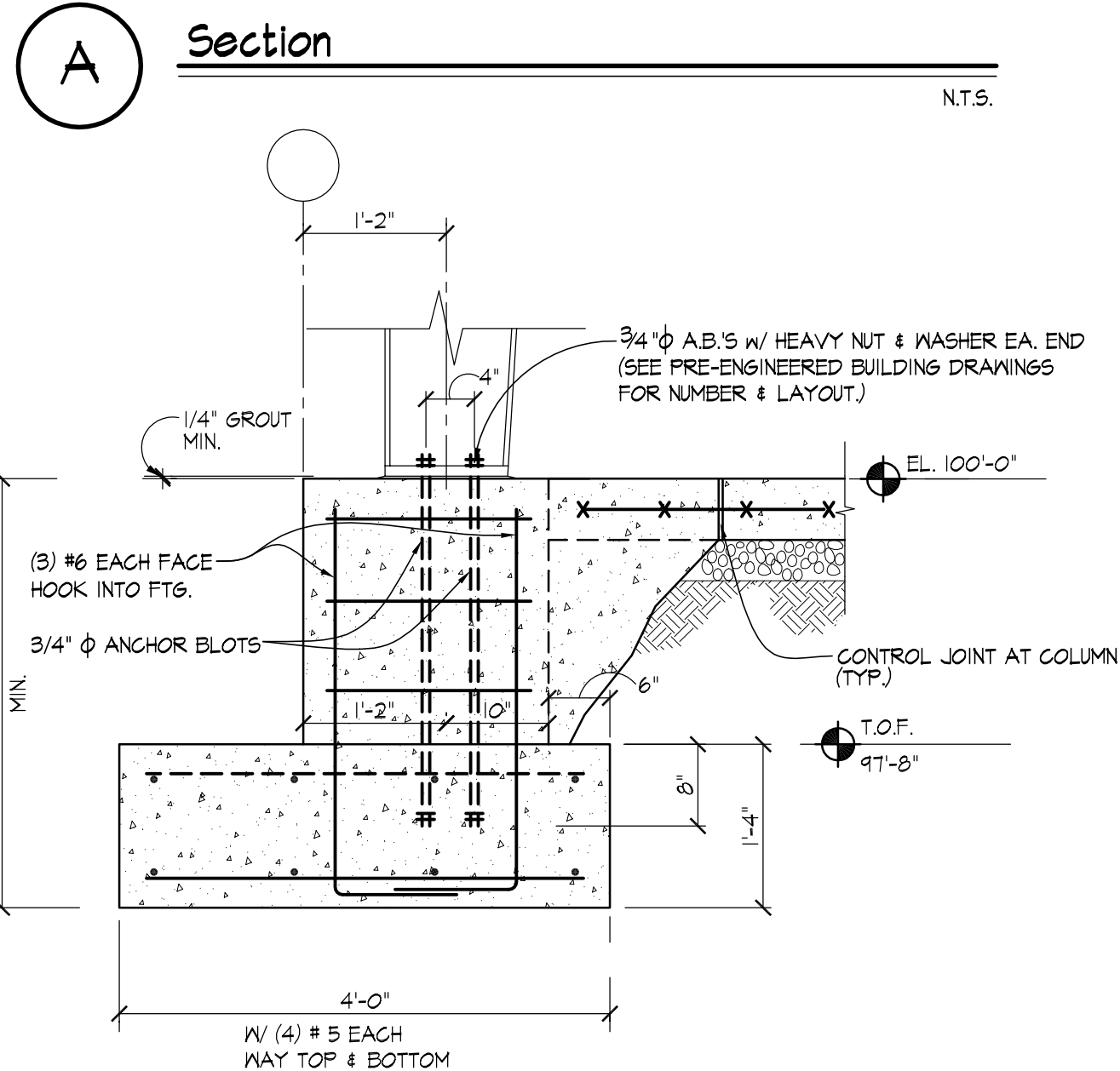
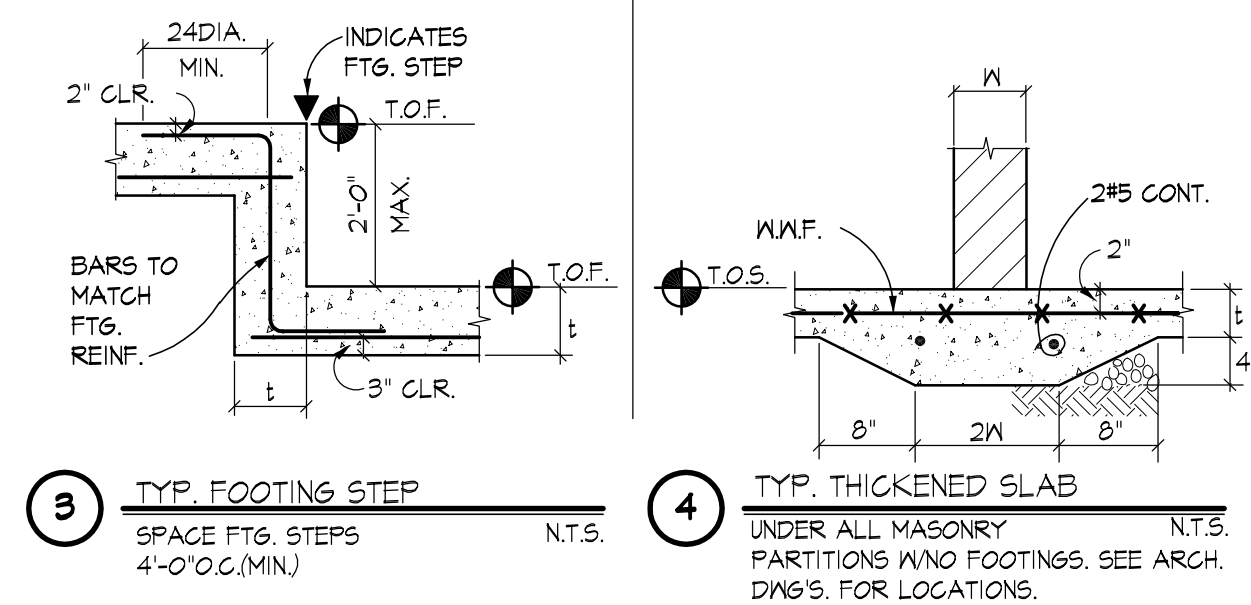
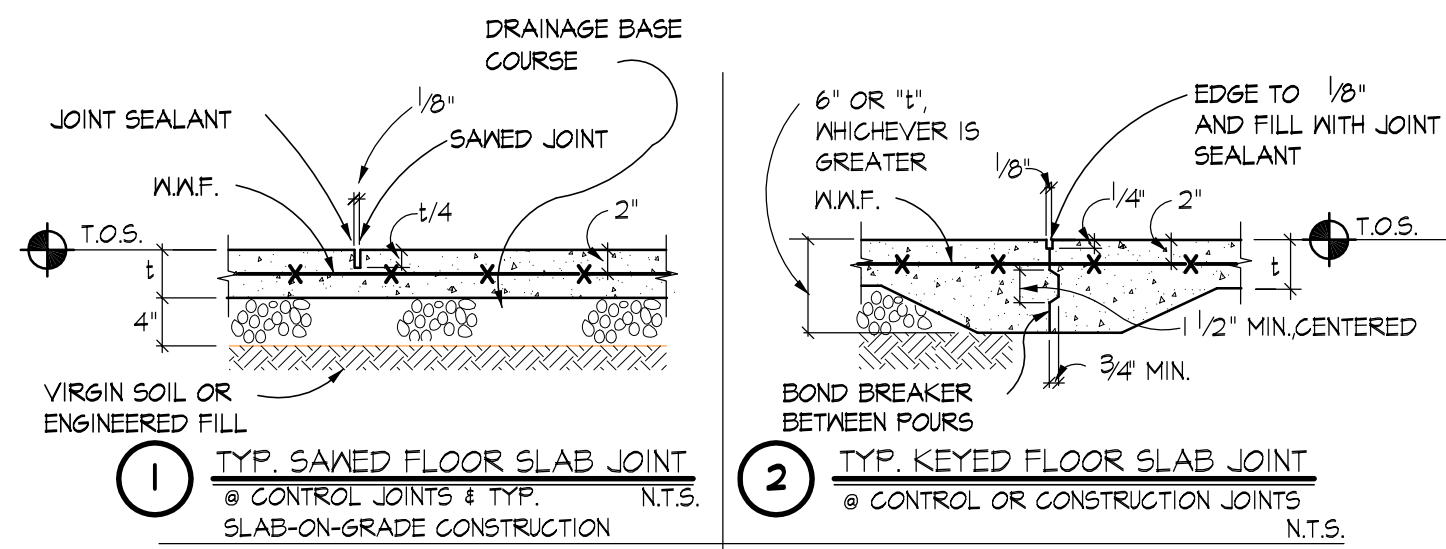
Structural Member Schedule

Mark	Section	Bearing Elev.	Remarks
C-1	N8x18	9'-4"	3/4"x12"x12" Base Plate w/ (2) 3/4"x16" Lg. Anchor Bolts, Frame to Building Ridge Frame Above w/ 4x4x1/4" Clip Angle
B-1	N8x18	10'-0"	Bear East End On Concrete Masonry and 1/4"x12"x12" Bearing Plate and Anchor to Masonry w/ (2) 3/4"x12" A.B. Bear West End On 1/4"x5"x12" Bearing Plate In Beam Pocket. Anchor Bearing Plate In Concrete Wall w/ (2) 3/4"x12" A.B.
L-1	(2) 5"x8 1/2"x5/16"	10'-4"	Minimum 4" Bearing Each End

KORDA/NEMETH
ENGINEERING, INC.
1650 WATERMARK DRIVE,
COLUMBUS, OHIO 43215
DESIGNED BY

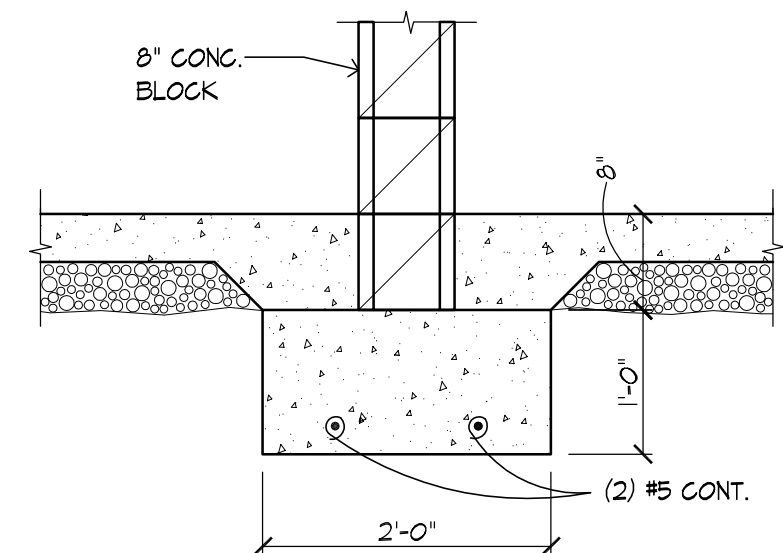
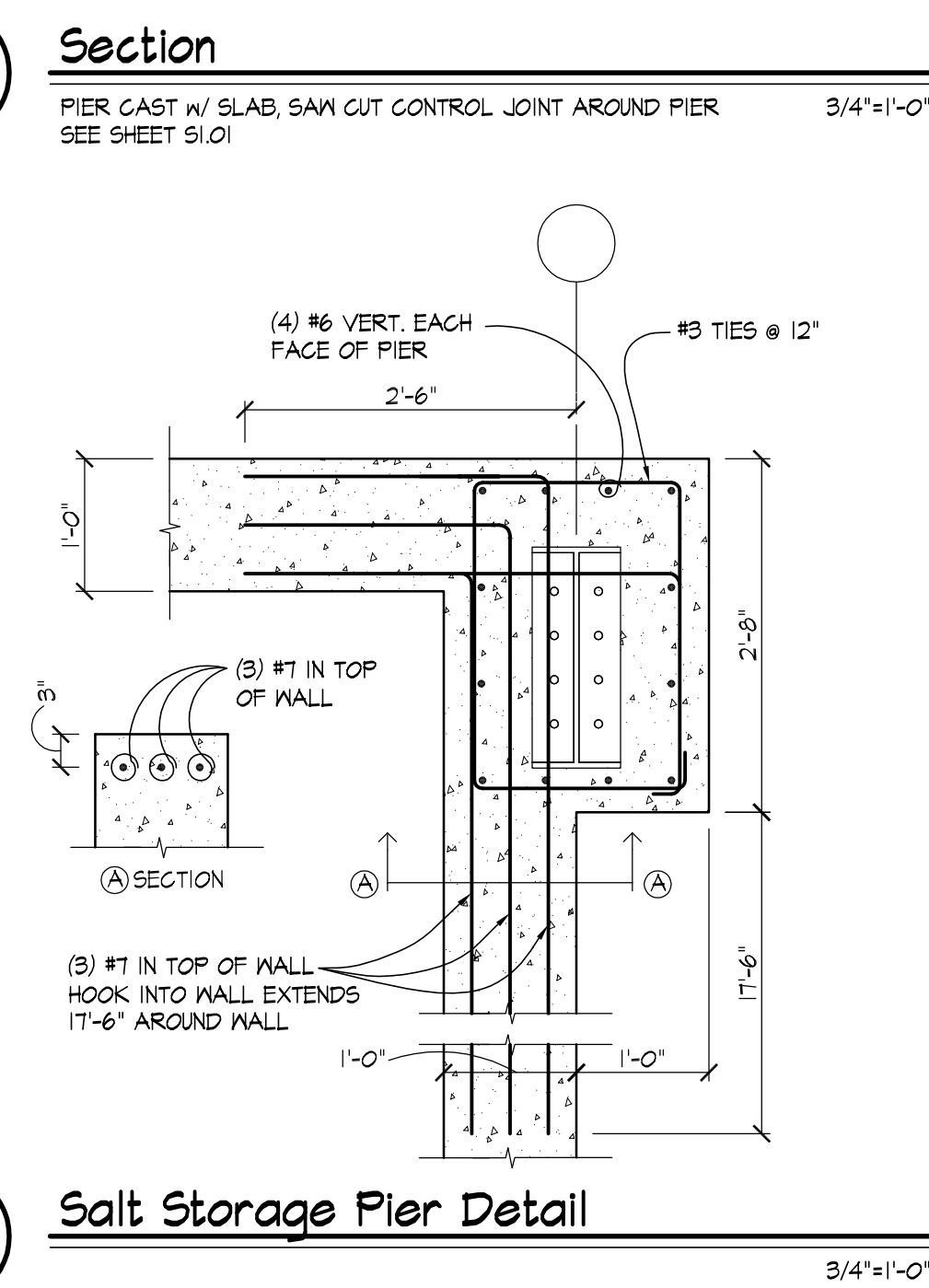
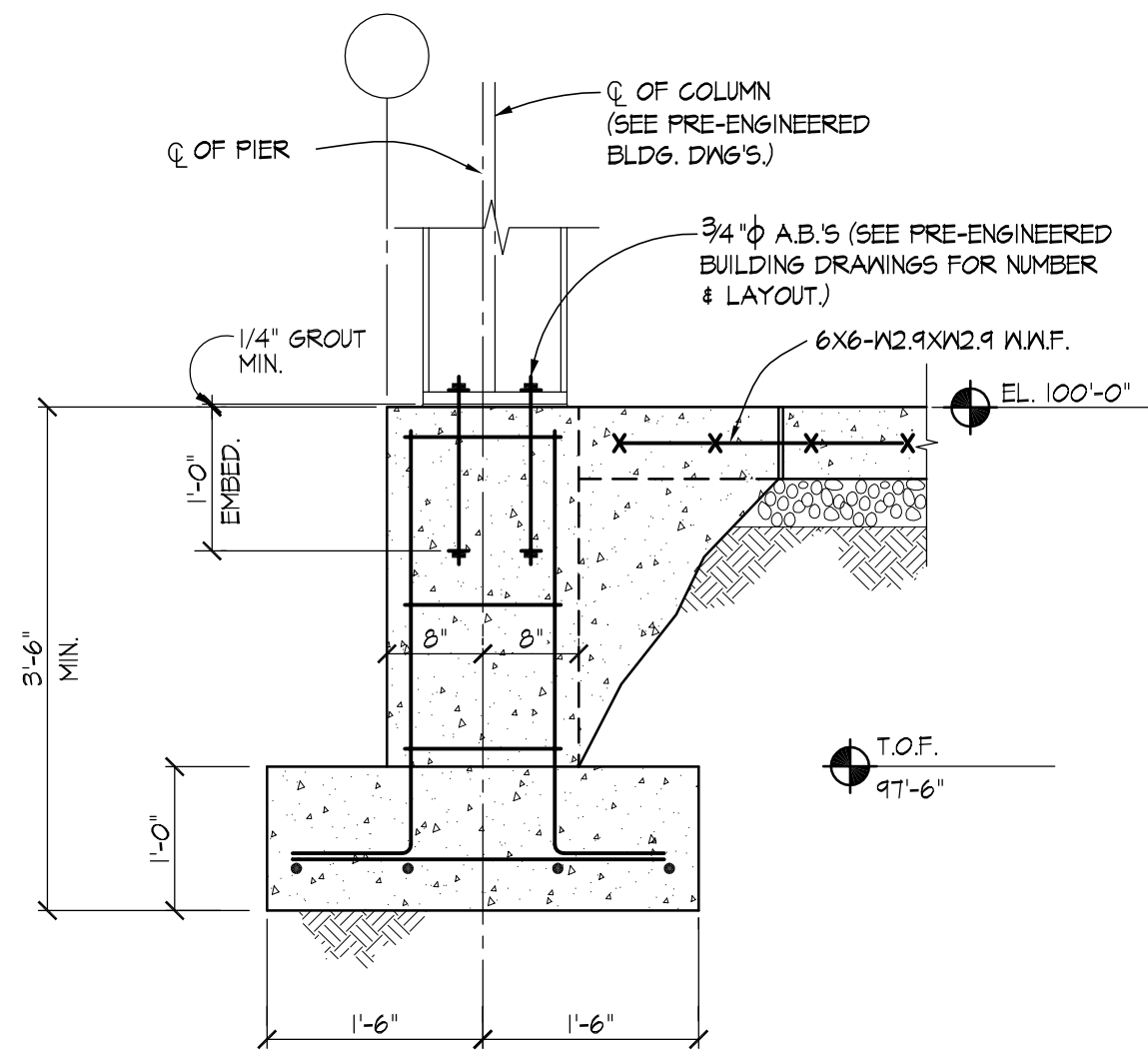
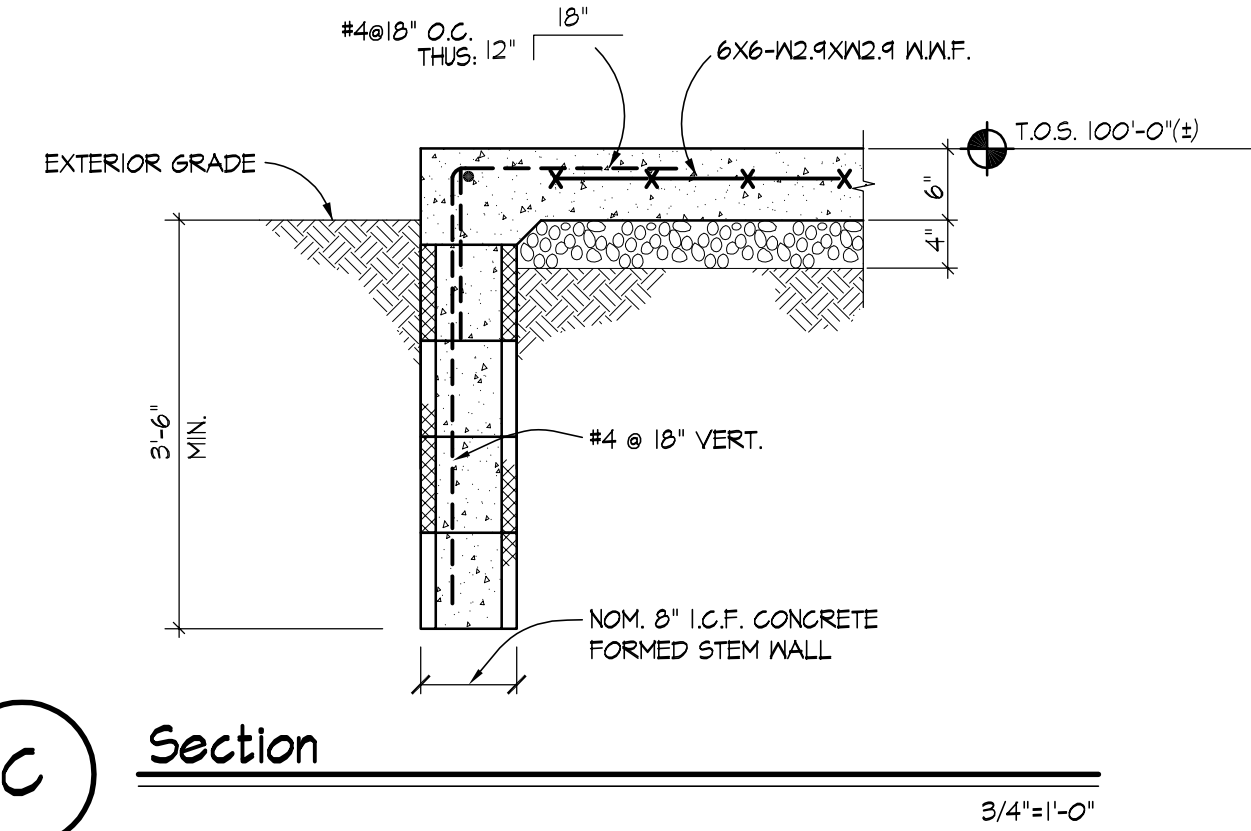
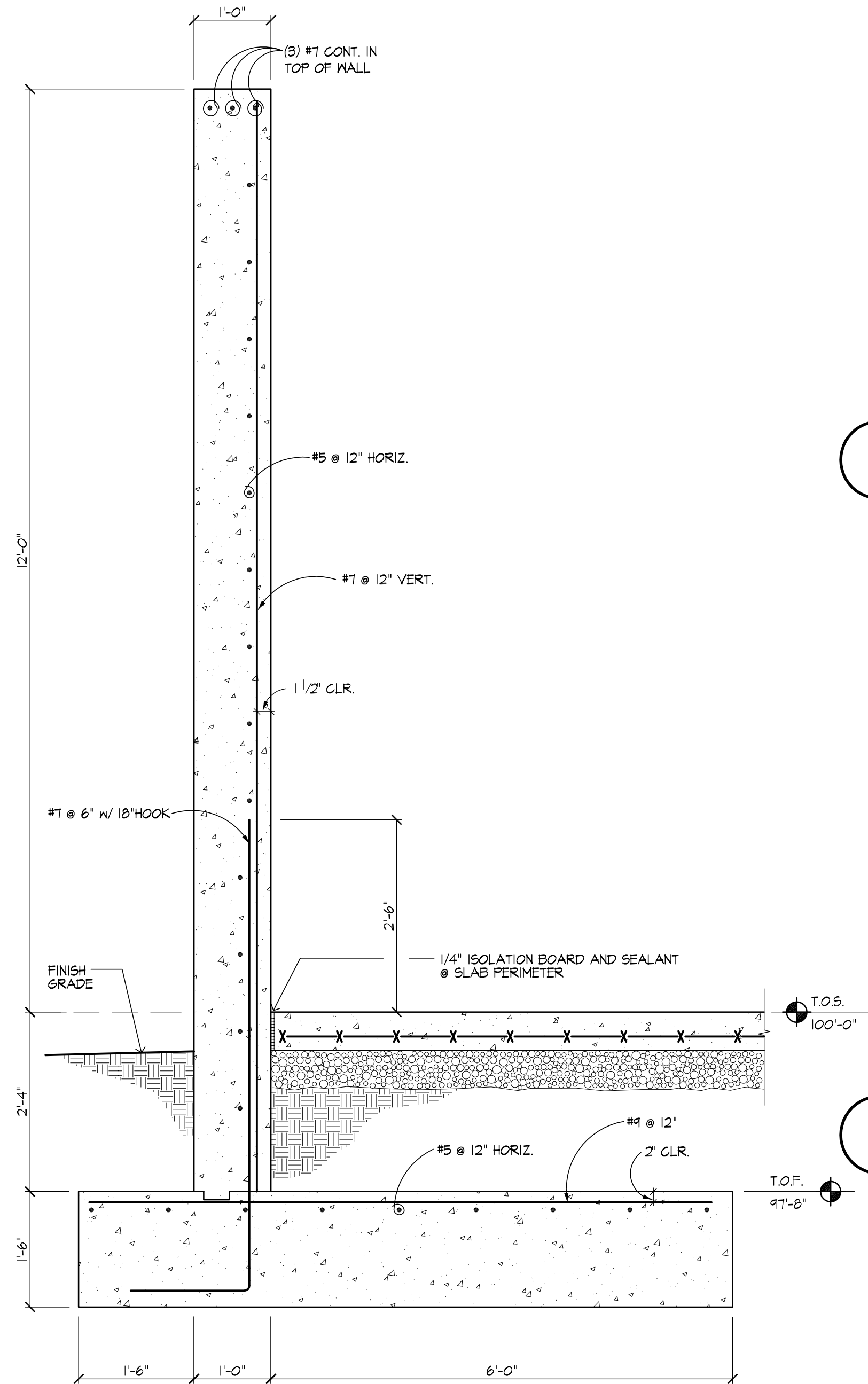
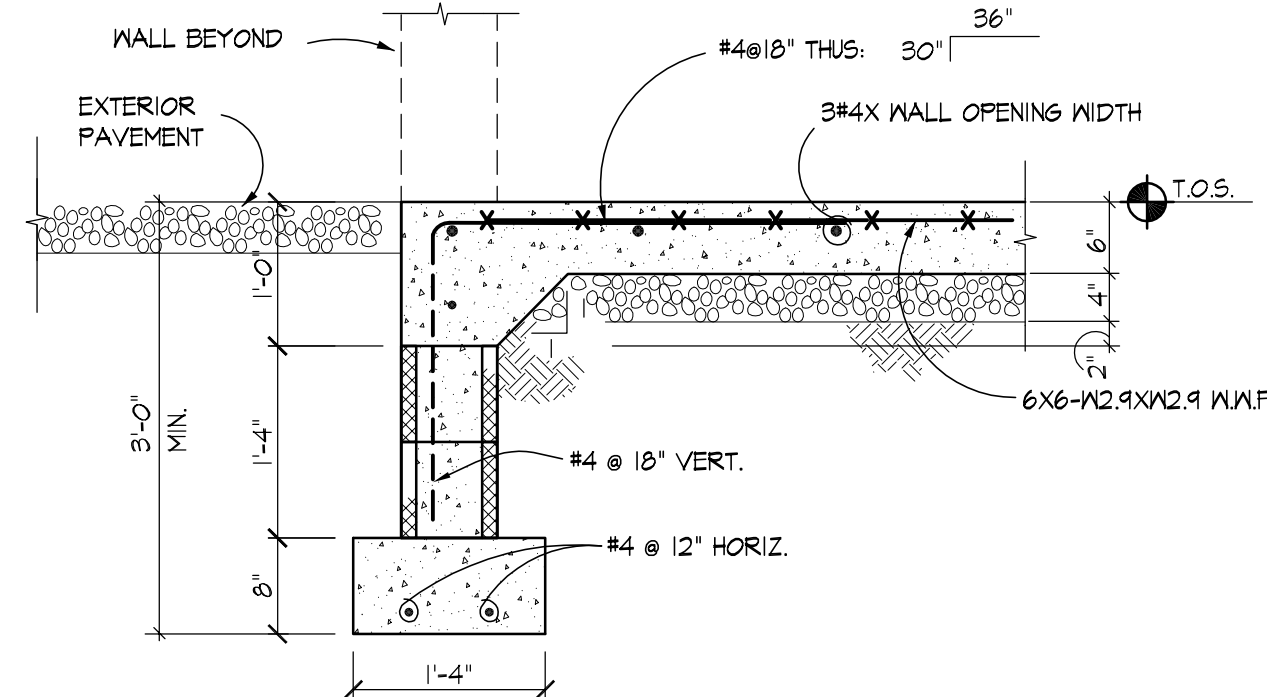
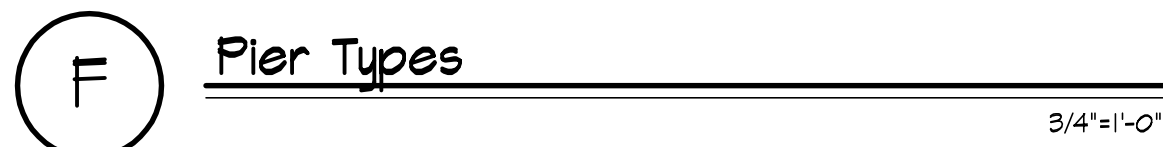
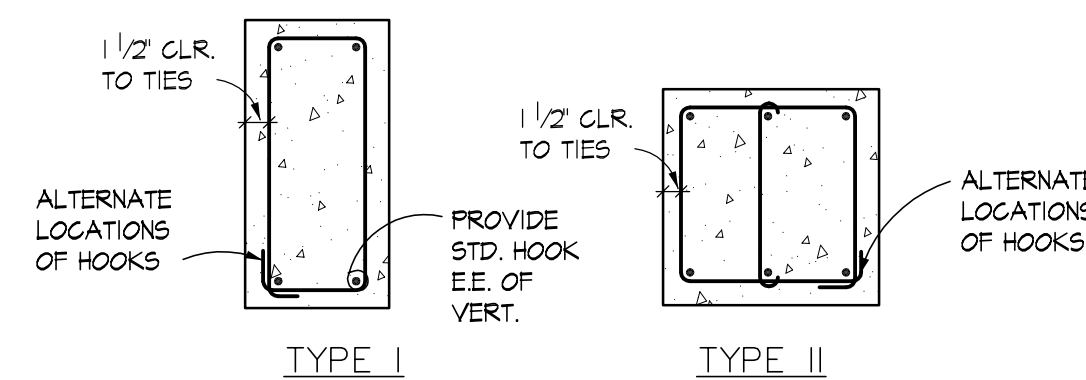
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KORDA Korda/Nemeth Engineering, Inc. - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-9861 WEB www.korda.com



FOOTING SCHEDULE (2500 PSF SOIL)			
MARK	SIZE	BOTTOM REINFORCEMENT	REMARKS
F3	3'-0"X3'-0"X12" THK.	(4) #4 EA. MAY TOP & BOTTOM	SEE DETAIL E/S1.02
F4.0	4'-0"X4'-0"X16" THK.	#5 E/N, TOP & BOTTOM	SEE DETAIL D/S1.02
F8.5	CONT. X 18" THK.	#4 @ 12" O.C. W/(9) #5 PERPENDICULAR, CONTINUOUS	SEE DETAIL G/S1.02

PIER SCHEDULE				
MARK	SIZE	VERT. REINF.	TIES	PIER TYPE
P1	12"X24"	(4)#6	#3@12"	I
P2	16"X16"	(4)#6	#3@12"	II
P3	24"X32"	(4)#6 VERT. EA. FACE	#3@12"	SEE DETAIL H/S1.02
P4	24"X24"	(3)#6 VERT. EA. FACE	#3@12"	II (PIER P4 TO EXTEND TO EL. 112'-0" AFF)



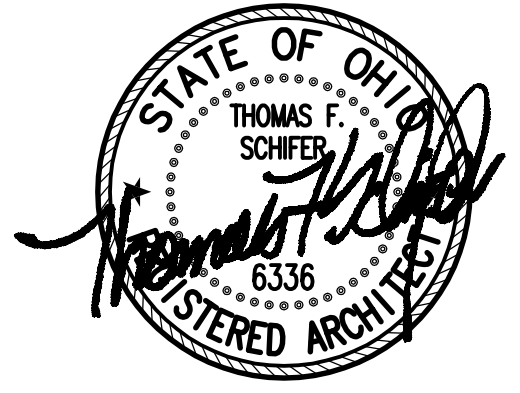
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- A. REINFORCED CONCRETE**
- 1. MATERIALS:**
- SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-05 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
 - STRUCTURAL CONCRETE
- | CLASS | LOCATION | FC |
|-------|--|--------------------------------|
| I | FOOTINGS | 3000 |
| II | INTERIOR SLABS ON GRADE, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. | 3500 |
| III | WALLS, PIERS, AND COLUMNS, EXTERIOR SLABS ON GRADE AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. | 4000 W/5% 1-1/2% ENTRAINED AIR |
| IV | BACKFILL BELOW FOOTINGS | 1500 |
- 2. FIELD MANUAL:** PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
- 3. CONTINGENCIES:**
- PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING.
- 4. FOOTINGS, COLUMNS:**
- DOVELS IN FOOTINGS TO MATCH VERTICAL COLUMN OR PIER REINFORCING.
 - BACKFILL AGAINST BOTH SIDES OF WALLS EQUALLY UNTIL THE LOWER ELEVATION IS ATTAINED.
 - PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
- 5. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:**
- VERTICAL BARS IN PIERS, OR COLUMNS (INCLUDING DOVELS) 45 DIAMETERS
 - HORIZONTAL BARS IN SLABS & FOOTINGS 35 DIAMETERS
 - HORIZONTAL BARS IN WALLS 45 DIAMETERS
- 6. CONSTRUCTION JOINTS:**
- CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.
- 7. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:**
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER 1-1/2 INCHES OTHERS 2 INCHES
- 8. MISCELLANEOUS:**
- GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.

FOUNDATION NOTES

- REFERENCE ELEVATION 100'-0".
- FOOTINGS SHALL BE FOUNDED ON VIRGIN SOIL OR ON ENGINEERED FILL AT THE ELEVATIONS SHOWN WITH A DESIGN BEARING CAPACITY OF 2.5 KSF. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOILS ENGINEER FOR THE BEARING CAPACITY INDICATED ABOVE PRIOR TO PLACING CONCRETE.
- KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH CLASS IV CONCRETE.
- ELEVATIONS SHOWN AT FOOTINGS ARE TOP OF FOOTING ELEVATION (T.O.F.).
- ALL EXTERIOR FOOTINGS TO BEAR MIN. 3'-0" BELOW ADJACENT GRADE. ADJUST BOTTOM OF FOOTING AS REQUIRED.
- ALL T.O.F. = 91'-4", U.N.O.
- TOP OF PIER ELEVATION (T.O.P.) = 100'-0", U.N.O.
- FLOOR CONSTRUCTION = 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH 6X6X12.9X12.9 W.W.F., U.N.O. SEE DETAIL A/S2 FOR TYPICAL CONCRETE SLAB-ON-GRADE CONSTRUCTION.
- TOP OF SLAB EL. (T.O.S.) = 100'-0", U.N.O. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MINOR DEPRESSIONS AND SLOPES TO DRAINS.
- PROVIDE THICKENED SLAB PER DETAIL A/S2 UNDER ALL CMU WALLS WHICH ARE NOT ON FOOTINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- SEE SHEET S1.02 FOR FOOTING AND PIER SCHEDULES.
- SEE SHEET S1.02 FOR CONCRETE NOTES.
- CANTILEVERED RETAINING WALLS HAVE BEEN DESIGNED FOR AN EQUIVALENT LATERAL FLUID PRESSURE OF 60 PCF.
- BACKFILL AGAINST ALL RETAINING WALLS SHALL CONSIST OF FREE-DRAINING GRANULAR MATERIAL FOR FULL HEIGHT OF THE WALL. MINIMUM THICKNESS OF GRANULAR MATERIAL SHALL BE 2'-0".
- ▼ INDICATES FOOTING STEP. SEE A3/S1.02



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Our Marion Office...
 355 East Center Street
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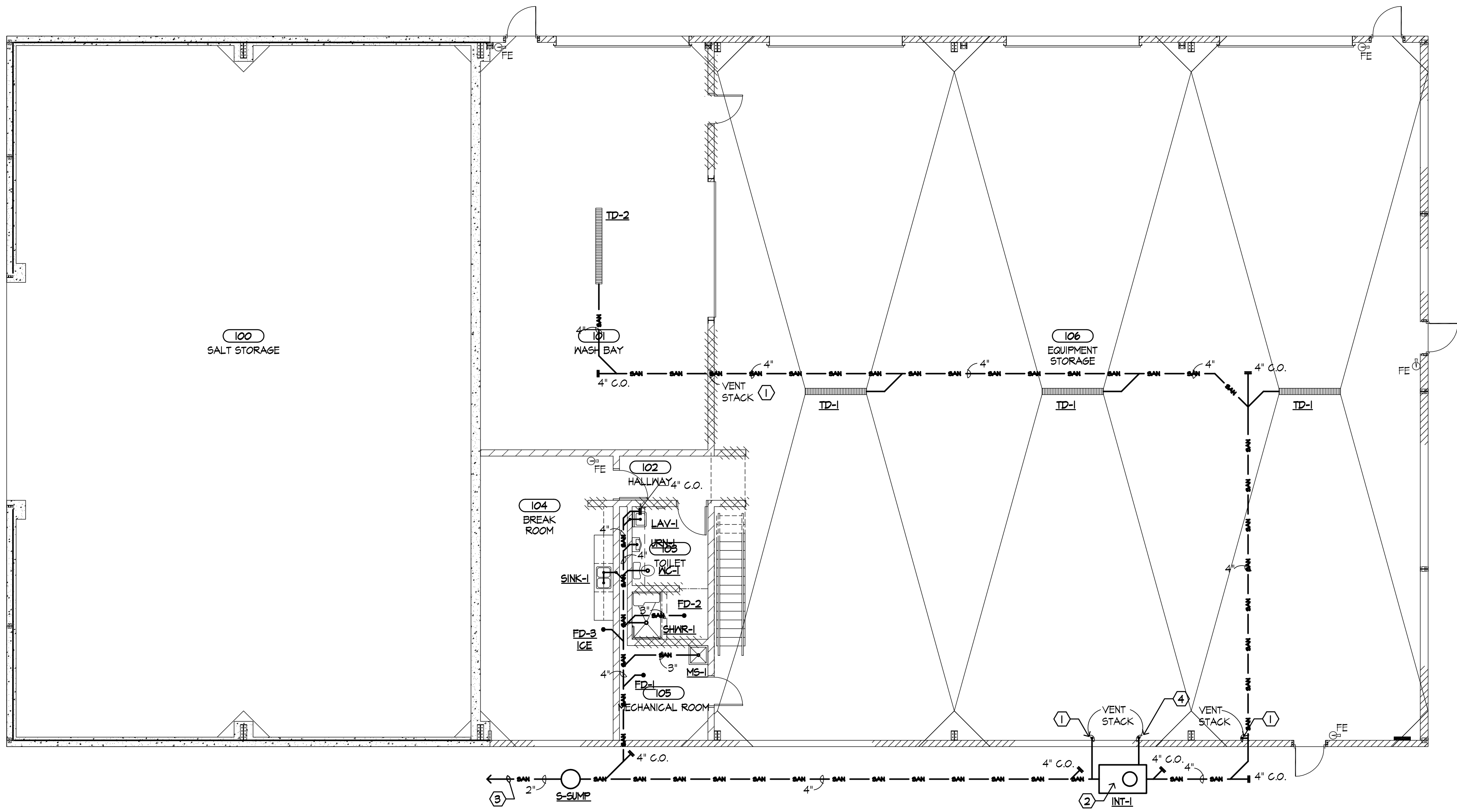
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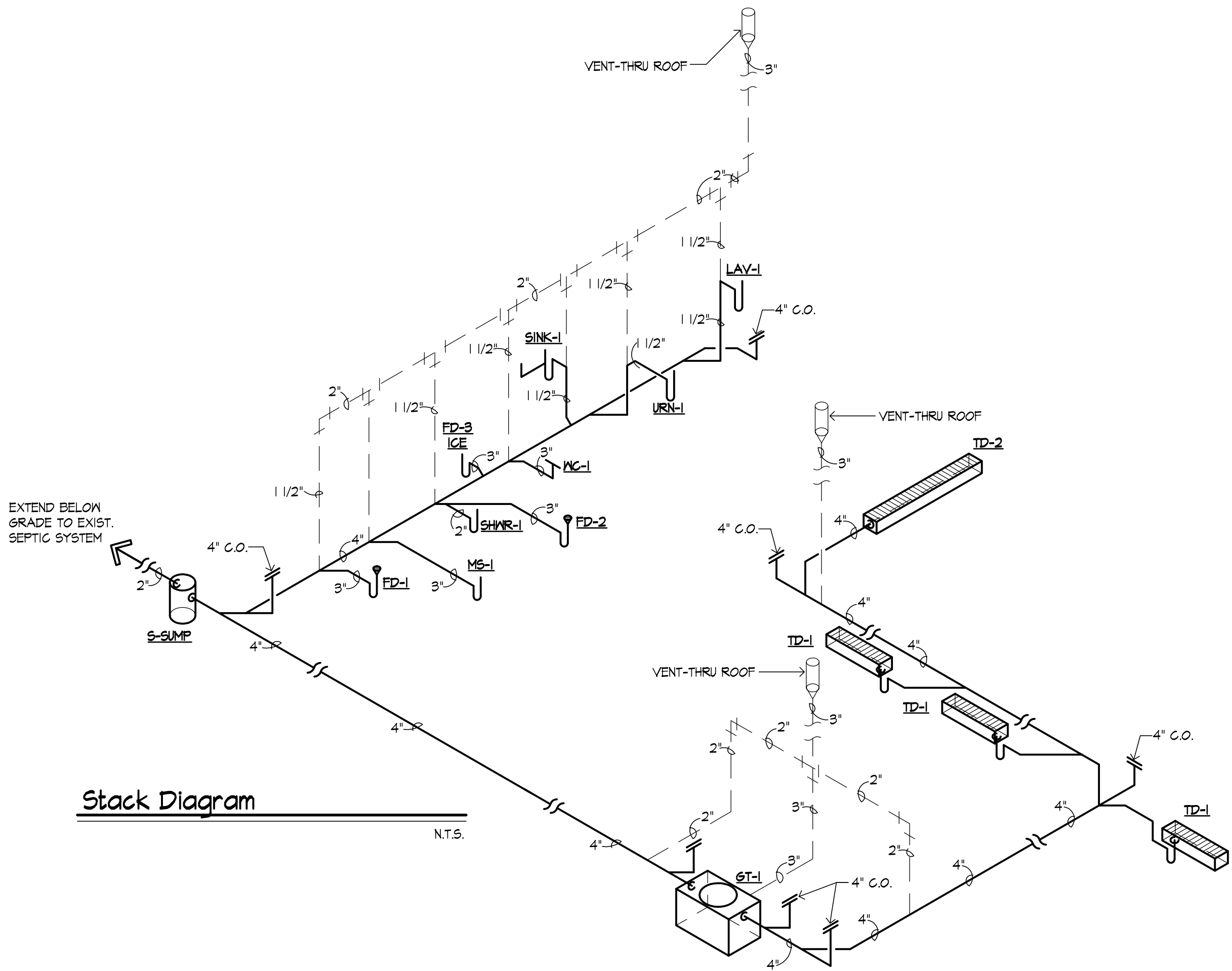
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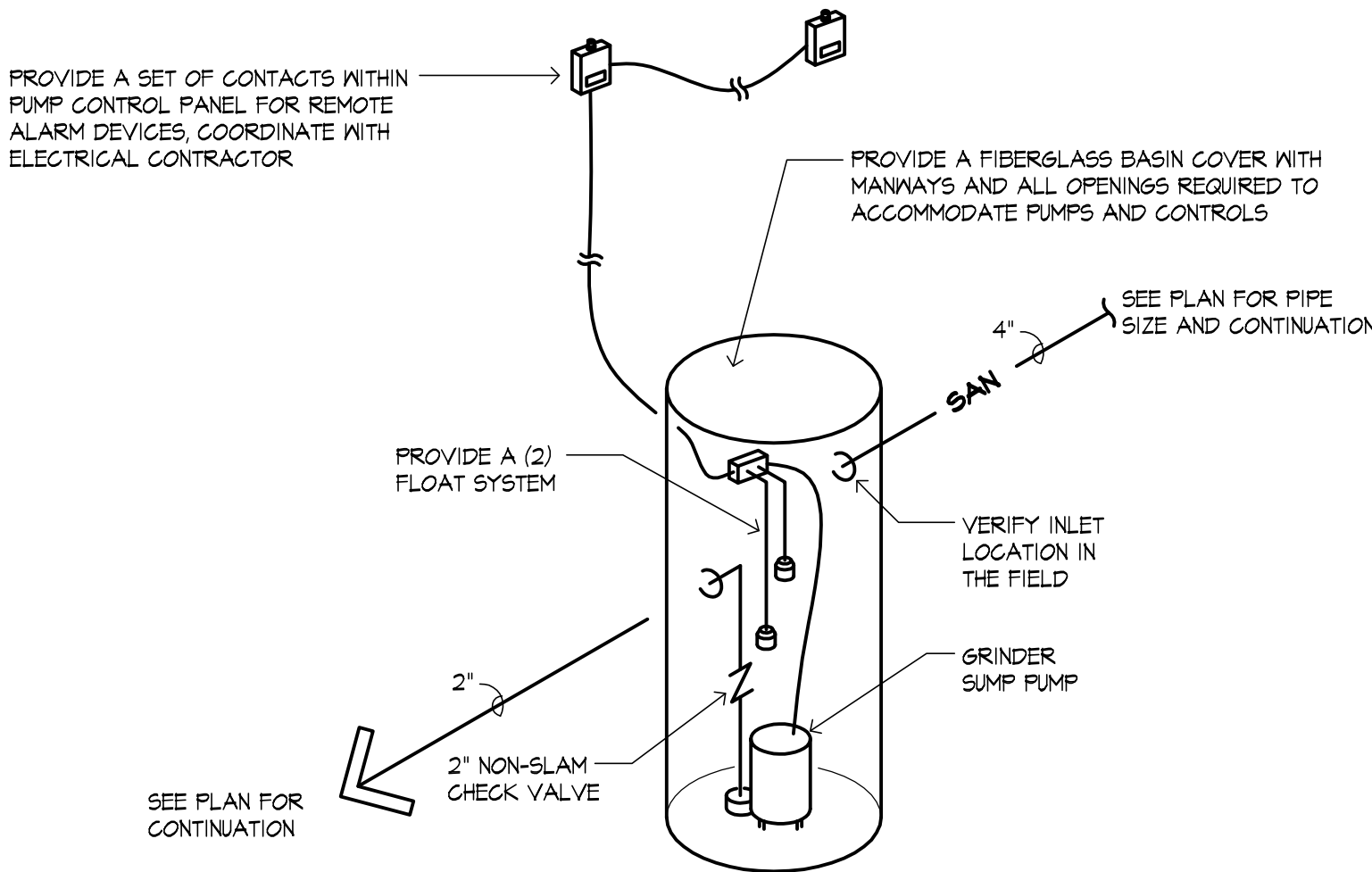
S1.02



Plumbing Plan
1/8"=1'-0"



Stack Diagram
N.T.S.



S-Sump Sewage Ejector
N.T.S.

General Plumbing Notes

1. ALL NEW WORK SHALL CONFORM TO CURRENT OHIO BUILDING CODE, NATIONAL PLUMBING CODE, OHIO SANITARY CODE, COUNTY BOARD OF HEALTH REGULATIONS, AND ANY OTHER APPLICABLE CODES OR REQUIREMENTS. PLUMBING CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, ACQUIRE AND PAY FOR ALL PERMITS, CERTIFICATES, AND INSPECTIONS, AND PERFORM ALL WORK FOR INSTALLATION OF GAS, WATER, AND SEWER UTILITIES.
2. COORDINATE ALL WORK WITH OTHER TRADES THROUGH THE GENERAL CONTRACTOR, AND NOTIFY THE ARCHITECT OF ANY MAJOR INSTALLATION CHANGES.
3. PROVIDE STEEL SLEEVES WHERE PIPE PENETRATES MASONRY, AND PACK SLEEVES AT COMPLETION OF WORK. COPPER PIPING PENETRATING POURED-IN-PLACE CONCRETE SHALL BE WRAPPED IN ARMAFLEX AT ALL PENETRATIONS.
4. ALL WASTE AND VENT LINES SHALL BE RUN CONCEALED BELOW SLABS, IN CHASES, WALLS, AND FLOOR/CEILING STRUCTURES EXCEPT AS SPECIFICALLY NOTED AS EXPOSED PIPING.
5. TAG ALL VALVES FOR DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND DOMESTIC HOT WATER RETURN, AND SPRINKLER LINES.
6. PLUMBING FIXTURES AND TRIM SHOWN ON THE DRAWINGS SHALL BE AS NOTED ON THE FIXTURE SCHEDULE; CUT-SHEETS WITH COLOR CHART SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
7. ALL FLOOR DRAINS IN CONCRETE SHALL BE SET 1" BELOW SLAB LEVEL. CONCRETE CONTRACTOR SHALL SLOPE FLOOR TO DRAINS.
8. ALL HOT AND COLD WATER SUPPLY LINES, AND ALL WASTE AND VENT LINES SHALL BE RUN CONCEALED IN CHASES OR WALLS PROVIDED EXCEPT AS SPECIFICALLY NOTED AS EXPOSED PIPING.
9. WRAP ALL EXPOSED HOT AND COLD WATER LINES W/ MIN. 1/2" ARMAFLEX PIPE INSULATION AND TAPE ALL JOINTS.
10. PROVIDE UNIONS AND UPSTREAM SHUT-OFF VALVE AT PUMPS, WATER HEATERS, WATER METERS, AND OTHER ITEMS OF EQUIPMENT WHICH CAN BE REMOVED OR REPLACED.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL SCOPE/INFORMATION.

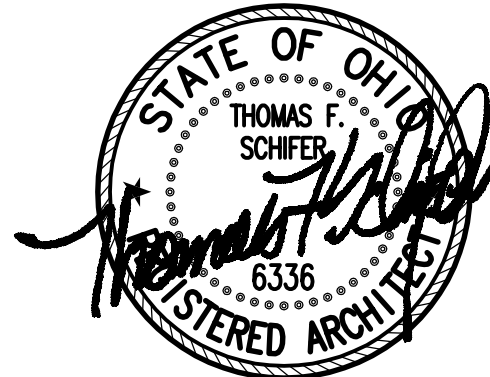
Plumbing Fixture Schedule:

NOTE: OWNER TO SELECT THE FIXTURE COLOR FROM THE MANUFACTURER'S FULL COLOR PALETTE. ALL TRIM UNLESS OTHERWISE NOTED SHALL BE POLISHED CHROME. ALL EXPOSED TRAPS TO BE CHROME PLATED WITH ESCHUTEONS.

Mark	Manufacturer	Description	Pipe Size	
			CN	HN
INT-1	NORWALK CONCRETE INDUSTRIES	OIL AND SEDIMENT INTERCEPTOR, MINIMUM 500 GALLON CAPACITY AS MANUFACTURED BY NORWALK CONCRETE INDUSTRIES. 4" DIA. INLET/OUTLET. INSTALL TOP FLUSH WITH EXTERIOR GRADE. PRE-CAST CONSTRUCTION WITH CAST-IRON LID AND FRAME. EQUIPMENT AS ABOVE OR APPROVED EQUAL AS SELECTED BY OWNER. PROVIDE WITH INTERNAL BAFFLE FOR SEDIMENT SEPARATION.		
WC-1	AMERICAN STANDARD /BEMIS	FLOOR MOUNTED TANK TYPE WATER CLOSET. AMERICAN STANDARD MODEL NUMBER 2885.012 CADET II, SIPHON JET ACTION, CLOSE COUPLED TANK, 16 MAX. GALLON PER FLUSH, 16 1/8" RIM HEIGHT, VITREOUS CHINA ELONGATED BOWL, 4 CHROME FLUSH ARM, BEMIS MODEL 1655-SSC, OPEN FRONT SEAT, SELF SUSTAINING STAINLESS STEEL CHECK HINGES. PROVIDE WITH MAX RING, CLOSET ELBOW, FLOOR FLANGE, CHROME PLATED SUPPLY RISER, AND CHROME PLATED KEY-OPERATED STOP. INSTALLATION TO COMPLY WITH ADA REQUIREMENTS.	1/2"	---
LAV-1	AMERICAN STANDARD/ ZURN/ MCGUIRE	WALL HUNG LAVATORY, AMERICAN STANDARD MODEL 0355.012 LUCERNE, WHITE VITREOUS CHINA FAUCET LEDGE, D SHAPED BOWL, FRONT OVERFLOW, 4" CENTERSET HOLES, REAR AND SIDE SPLASH SHIELDS, AMERICAN STANDARD MODEL 2385.005 SINGLE HANDLE FAUCET, 4" CENTERSET SUPPLIES, AERATOR, OFFSET GRID STRAINER, CERAMIC DISC VALVE, INDEXED METAL LEVER HANDLE, MODEL 002 POLISHED CHROME FINISH. PROVIDE WITH CHROME PLATED CAST BRASS P-TRAP, CHROME KEY-OPERATED STOPS, AND CHROME PLATED SUPPLY RISERS. PROVIDE FLEXIBLE SEAMLESS CLOSED CELL PADDED COVER BELOW LAVATORY SIMILAR TO MCGUIRE PRONRAP. PROVIDE WITH CARRIER SIMILAR TO ZURN SERIES 1200 WITH RECTANGULAR UPRIGHTS. FLOOR MOUNTING BOLTS, SHORT FOOT, AND NEOPRENE GASKET. INSTALLATION TO COMPLY WITH ADA REQUIREMENTS.	1/2"	1/2"
MS-1	FIAT/ AMERICAN STANDARD	MOLDED STONE FLOOR MOUNTED SERVICE SINK, FIAT MODEL MSB-2424 24"x24" OVERALL SIZE, PROVIDE WITH FIAT MODEL MSB-2424 STAINLESS STEEL WALL GUARD AND FIAT MODEL E-TT-AA CURB CAPS. AMERICAN STANDARD MODEL 8344.112 EXPOSED WALL MOUNTED FAUCET WITH TOP BRACE, VACUUM BREAKER, ANGLE STOPS, 4 ARM CHROME PLATED METAL LEVER HANDLES, BUCKET HOOK, THREADED HOSE, END, CHROME FINISH. PROVIDE CHROME PLATED METAL STRAINER, LINT BASKET AND CAST BRASS P-TRAP.	3/4"	3/4"
SHWR-1	AQUAGLASS/ LEONARD	AQUAGLASS MODEL #836336 SINGLE PIECE GELCOAT GLASS FIBER SHOWER STALL ENCLOSURE 62 3/4"x36 3/4"x78" ONE PIECE, FURNISH WITH SELF GULKING BRASS DRAIN WITH STAINLESS STEEL STRAINER, FACTORY INSTALLED VERTICAL GRAB BAR, 4 FACTORY INSTALLED HORIZONTAL WRAP AROUND GRAB BAR, FACTORY INSTALLED CURTAIN ROD, FACTORY INSTALLED FOLDABLE HANDICAPPED SHOWER SEAT. SHOWER STALL SHALL BE EQUIPPED W/ MODIFIED MAXIMUM 1/2" THRESHOLD. PROVIDE LEONARD AQUATROL MODEL 4500 PRESSURE BALANCING VALVE WITH MANUAL VOLUME CONTROL, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, VANDAL CHECKSTOPS, LEONARD MODEL H-03 BRASS SHOWER HEAD WITH 2.5 GPM MAXIMUM FLOW RATE, LEONARD MODEL D-2L DIVERTER VALVE, LEONARD MODEL 501P HAND HELD SHOWER, ADJUSTABLE SPRAY WITH 2.5 GPM MAXIMUM FLOW RATE. SHOWER INSTALLATION TO COMPLY WITH ALL APPLICABLE ADA REQUIREMENTS.		
SINK-1	ELKAY	FIXTURE, DOUBLE COMPARTMENT; ELKAY MODEL NO. LR-3322 CONTROLS; ELKAY MODEL NO. LKE-4223 WITH HAND SPRAY, ADA SINGLE LEVER HANDLE MIXING VALVE, CHROME FINISH, 11-1/8" SPOUT HEIGHT 10" REACH, SWIVEL 2.2 GPM AERATOR. DRAIN; ELKAY MODEL NO. LK-35 BASKET STRAINER TRAP; MCGUIRE MODEL 8412 1 1/2"x1 1/2" IT 6A. P-TRAP, CHROME PLATED STOPS; MCGUIRE MODEL 2165 1/2" LAVATORY SUPPLIES W/ WHEEL HANDLE BRASS ANGLE STOPS AND COPPER FLEX TUBE RISERS. ALL CHROME PLATED		
S-SUMP	ZOELLER OR MYERS	THE SEWAGE SUMP SHALL BE A TURN KEY PRE-PACKAGED AND JOB READY GRINDER SYSTEM. THE SYSTEM SHALL BE SIMILAR TO ZOELLER PUMP CO., INC. ITEM #M22-0055, OR MYERS FENTAIR PUMP GROUP, SIMPLEX 24" AND INCLUDE THE FOLLOWING: A. THE GRINDER PUMP SHALL BE SIMILAR TO ZOELLER MODEL #NDB20 OR MYERS MRG 20, SUBMERSIBLE TYPE 2HP, GRINDER PUMP, 230 VOLT, 1-PHASE. B. FIBERGLASS BASIN TO BE APPROVED/PROVIDED BY THE PUMP MANUFACTURER, 24" DIAMETER X12" DEPTH SIZE OR AS REQUIRED. FURNISH WITH HOLD DOWN FLANGES FOR INTEGRATION INTO CONCRETE ANTI-FLOTATION BASE. FURNISH WITH APPROVED LISTED VENTED SOLID FIBERGLASS BASIN COVER. PAINT BOTH SIDES OF BASIN LID. PACKAGED BASIN ASSEMBLY TO INCLUDE ANTI-FLOTATION DEVICE, 1 1/4" DISCHARGE PIPING, SQUARE GUIDE RAIL ASSEMBLY CHECK AND BALL VALVES, INLET DISCHARGE AND ELECTRICAL FITTINGS, AND STAINLESS STEEL LIFTING CABLE AND LIFTING ROD. C. CONTROLS SHALL CONSIST OF A PUMP CONTROL FLOAT SWITCH, ALARM PANEL, WATER LEVEL ALARM FLOAT SWITCH TO SIGNAL AUDIO/VISUAL ALARMS, LOCATE ONE ALARM IN THE EMPLOYEE LOUNGE AND ONE IN THE WASH BAY IN EXACT LOCATIONS SPECIFIED BY OWNER.		
FD-1	ZURN	ZURN MODEL NO. ZN-415 CAST IRON FLOOR DRAIN WITH SECONDARY DRAINAGE / ANCHOR FLANGE, KEEPHOLES, ADJUSTABLE FRAME AND GRATE WITH POLISHED NICKEL BRONZE FINISH, 6" DIAMETER ROUND TOP WITH SQUARE OPENINGS AND BOTTOM GASKET CONNECTION OUTLET. DRAINS IN STRUCTURES ABOVE GRADE TO BE FURNISHED WITH CLAMPING COLLAR.		
FD-2	ZURN	ZURN MODEL NO. ZN-610 CAST IRON FLOOR DRAIN WITH SECONDARY DRAINAGE / ANCHOR FLANGE, KEEPHOLES, COATED FRAME AND GRATE, 12" SQUARE TOP WITH SLOTTED OPENINGS, REMOVABLE SEDIMENT BUCKET AND BOTTOM GASKET CONNECTION OUTLET. DRAINS IN STRUCTURES ABOVE GRADE TO BE FURNISHED WITH CLAMPING COLLAR.		
TD-1	ACO USA	ACO POWER DRAIN #5100K, INTERLOCKING COMPONENTS W/O 6% BUILT- IN CONTINUOUSLY SLOPED RUN AND HEAVY DUTY SLOTTED IRON GRATING WITH BOLTLESS POWER-LOK LOCKING SYSTEM. FURNISH WITH 4" OUTLET, SOLID END CAPS AND PLUMB WITH 4" SCHED 40 PVC PIPE.		
TD-2	ACO USA	ACO POWER DRAIN #5100K, INTERLOCKING COMPONENTS W/O 6% BUILT- IN CONTINUOUSLY SLOPED RUN AND HEAVY DUTY SLOTTED IRON GRATING WITH BOLTLESS POWER-LOK LOCKING SYSTEM. FURNISH WITH 4" OUTLET, SOLID END CAPS AND PLUMB WITH 4" SCHED 40 PVC PIPE.		

Plumbing Plan Notes

- ① 2" DIAMETER VENT EXTEND VERTICALLY ON INTERIOR FACE OF WALL TO 3" VENT-THRU-ROOF. FLASH & SEAL ROOF PENETRATION. RUN VENT CONCEALED IN MASONRY WALL AT WASH BAY.
- ② EXTEND CLEAN-OUT TO GRADE. FURNISH AND INSTALL CAST-IRON MANHOLE COVER AND FRAME.
- ③ EXTEND 2" PVC SANITARY LINE FROM GRINDER PUMP TO EXISTING SEPTIC SYSTEM. SEE SHEET C1.01 FOR CONTINUATION
- ④ 3" DIAMETER PVC VENT FROM OIL AND SEDIMENT INTERCEPTOR, EXTEND VERTICALLY ON INTERIOR FACE OF WALL TO 3" VENT-THRU-ROOF. FLASH AND SEAL ROOF PENETRATION.



JESTER
JONES
SCHIFER
ARCHITECTS
LTD

Our Marion Office...

355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
E-mail: marion@jjsa.net

Our Columbus Office...

At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
Fax: (614) 761-3996
E-mail: dublin@jjsa.net

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1798 Marion Cardington Rd. East

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REV.: DATE:

P1.01



355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
E-mail: marion@jjsa.net

At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
Fax: (614) 761-3996
E-mail: dublin@jjsa.net

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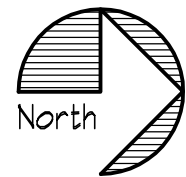
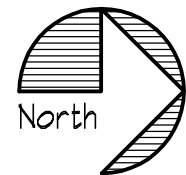
Marion, Ohio

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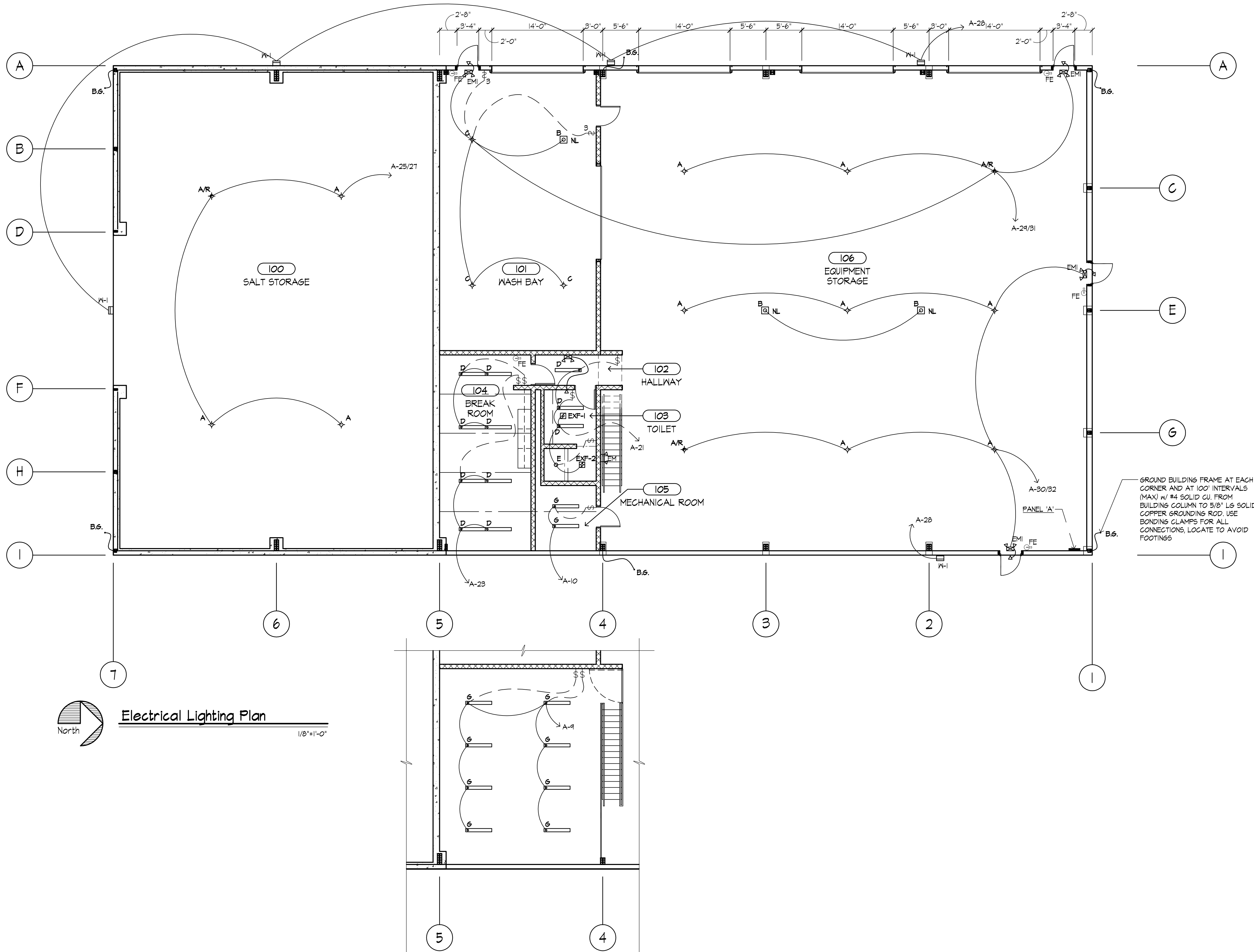

$$1/\delta'' = 1' - 0$$

$$1/4'' = 1' - 0$$

AIR EXCHANGER, BROAN MODEL #HV200H HEAT RECOVERY VENTILATOR, 250 CFM MAX, 120V, 1PH, UNIT FURNISHED WITH WASHABLE FILTER AND 6" DIAMETER SUPPLY AIR AND EXHAUST AIR CONNECTIONS. MOUNT UNIT AT MEZZANINE LEVEL, CHAIN HUNG WITH VIBRATION ISOLATORS. RUN ALL DUCTWORK AT MEZZANINE LEVEL AND PENETRATE FLOOR FOR FRESH AIR SUPPLY DIFFUSER AND EXHAUST GRILLES. ALL DUCTWORK TO BE INSULATED WITH MINIMUM 1" DUCT RAK, TAPED AND SEALED. FURNISH SYSTEM COMPLETE WITH ALL INTAKE AND EXHAUST WALL CAPS, BACKDRIFT DAMPERS, WEATHERPROOF CONNECTIONS, AND ALL REQUIRED ACCESSORIES AND COMPONENT PARTS. UNIT TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

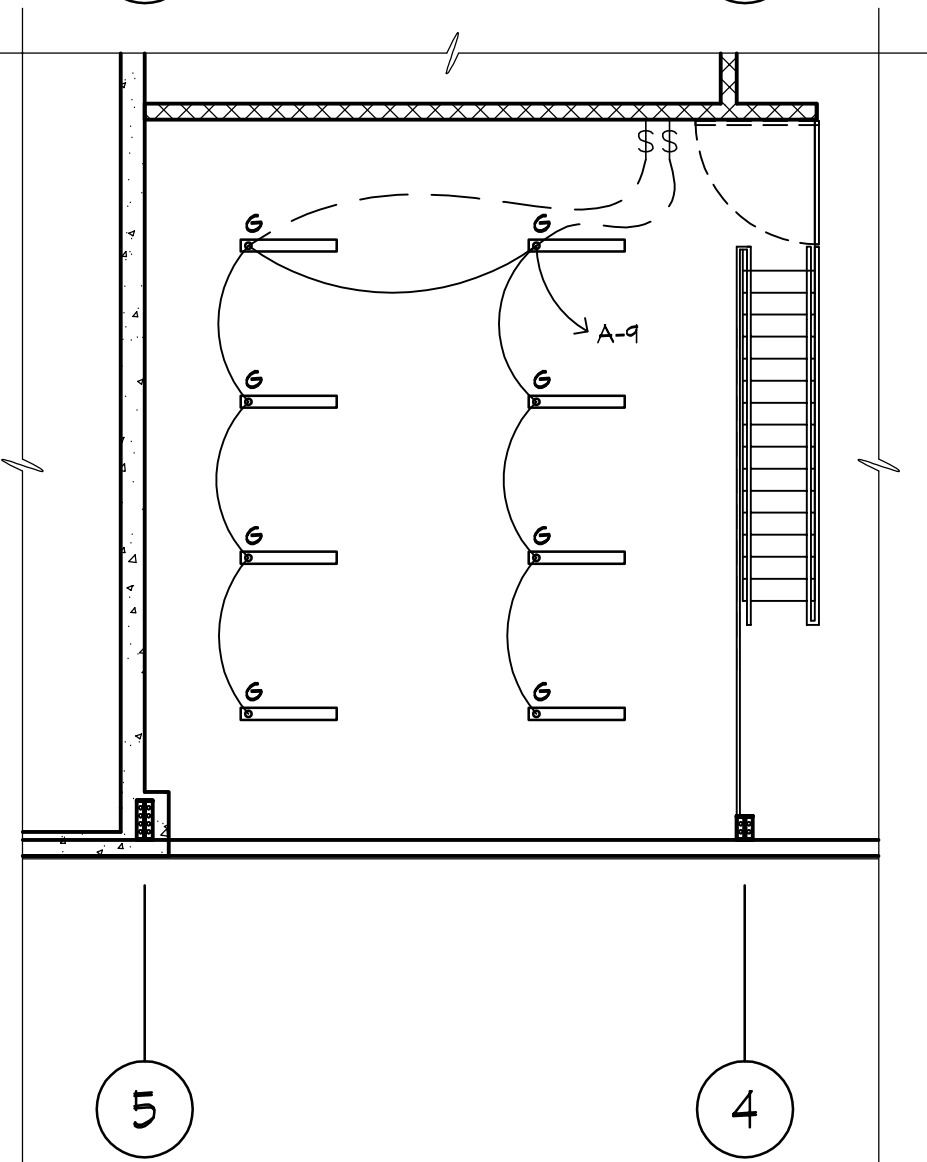
- ① EXTEND 4" DIAMETER CONCENTRIC FLUE (COMBUSTION AIR AND EXHAUST), FROM POWER VENTED SEALED COMBUSTION CHAMBER THROUGH BUILDING SIDEWALL TO WEATHERPROOF WALL CAP WITH BACKDRAFT DAMPER.
- ② SUPPORT FROM STRUCTURE WITH SUPPORT RODS AND VIBRATION ISOLATORS. WIRE FAN THROUGH CARBON MONOXIDE DETECTOR SWITCH AND MANUAL OVERRIDE SWITCH AND INTERLOCK WITH AIR INTAKE LOUVER. SEE ELECTRICAL DRAWINGS

OMC SECTION 404.2: MAXIMUM RATE OF GARAGE EXHAUST SHALL NOT BE LESS THEN 1.5 CFM/SF. AUTOMATIC OPERATION OF GARAGE EXHAUST SHALL NOT REDUCE THE VENTILATION RATE TO LESS THEN 0.05 CFM/SF. THE CO SENSOR ACTIVATES THE MAXIMUM CFM VENTILATION RATE.

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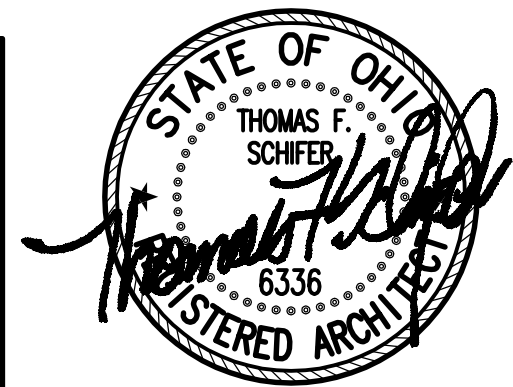
North
Electrical Lighting Plan
1/8"=1'-0"



Mez. Electrical Lighting Plan
1/8"=1'-0"

Lighting Fixture Schedule	
	INDUSTRIAL LOW BAY, LITHONIA TX 250W A23 TB(20) SC/NA QRS, 250W METAL HALIDE, FURNISH WITH QUARTZ RESTRIKE FEATURE, SUSPEND AT 14'-0" MOUNTING HEIGHT TO BOTTOM OF FIXTURE.
	INDUSTRIAL LOW BAY, LITHONIA TX 250W A23 TB(20) SC/NA, 250W METAL HALIDE, SUSPEND AT 14'-0" MOUNTING HEIGHT TO BOTTOM OF FIXTURE.
	INDUSTRIAL LOW BAY, LITHONIA TX 100W A125 120 SC/NA QRS, 100W METAL HALIDE, FURNISH WITH QUARTZ RESTRIKE FEATURE, SUSPEND AT 14'-0" MOUNTING HEIGHT TO BOTTOM OF FIXTURE. WIRE AHEAD OF LOCAL SWITCHING.
	INDUSTRIAL LOW BAY, LITHONIA TX 175W A23 120 SC/NA, 175W METAL HALIDE, SUSPEND AT 14'-0" MOUNTING HEIGHT TO BOTTOM OF FIXTURE.
	LITHONIA 2VG232M/VOLTS6BIORSVC2MH, SURFACE MOUNTED FLUORESCENT FIXTURE, (2) 32W T8, FURNISH WITH WHITE END CAPS.
	LITHONIA L16F 26TRT 6LD3 M/VOLT, RECESSED DOWNLIGHT WITH DROP OPAL LENS, SUITABLE FOR DAMP LOCATIONS, (1) 26W TRIPLE TWIN TUBE, COMPACT FLUORESCENT.
	LITHONIA QUANTUM #ELM 654 H2006 N DL WALL MOUNTED, TWIN LAMP EMERGENCY MEANS OF EGRESS FIXTURE. FURNISH IN WHITE FINISH WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY.
	LITHONIA #LQMSWIR20 N H WALL MOUNTED EXIT LIGHT WITH BATTERY BACK-UP. PROVIDE REMOTE HEAD #ELA W CDS ABOVE EXTERIOR DOORS IN LOCATIONS SHOWN ON PLAN.
	EXHAUST FAN, BROAN MODEL QTXE, 150 CFM, 1/4 SONES, ENERGY STAR RATED. EXTEND 6" ROUND EXHAUST DUCT THROUGH EXTERIOR WALL TO WEATHERPROOF WALL CAP WITH INSECT SCREEN AND BACKDRAFT DAMPER.
	COMBINATION EXHAUST FAN/LIGHT, BROAN MODEL QTRE 080 FLT, 80 CFM, 1/8 SONES, ENERGY STAR RATED, 42W FLUORESCENT LIGHTING AND 4W NIGHTLIGHT. EXTEND 4" ROUND EXHAUST DUCT THROUGH EXTERIOR WALL TO WEATHERPROOF WALL CAP WITH INSECT SCREEN AND BACKDRAFT DAMPER.
	EXHAUST FAN, ACME ENGINEERING AND MANUFACTURING, MODEL DC 30, 1/2 HP, 60T RPM, TWO SPEED, 8570 CFM AT .125 SP. MOUNT FAN IN EXHAUST HOOD SIZED TO FIT LOUVER DIMENSIONS.
	SUPPLY AIR FAN ACME ENGINEERING AND MANUFACTURING, MODEL DC 30, 1/2 HP, 60T RPM, TWO SPEED, 8570 CFM AT .125 SP. MOUNT FAN IN INTAKE AIR HOOD SIZED TO FIT LOUVER DIMENSIONS.
	LITHONIA AF10 232 M/VOLT 6BIORS, CHAIN HUNG FROM STRUCTURE ABOVE.
	SECURITY WALL-PACK FIXTURE, LITHONIA TWP-175M-120-PE-LPI-DMB, MOUNT AT 13'-0"

- General Electrical Notes**
- ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CURRENT EDITION, AND THE OHIO BUILDING CODE (OBC), CURRENT EDITION.
 - ELECTRICAL CONTRACTOR SHALL TABULATE LOADS FROM ALL NEW WORK AND VERIFY THAT ELECTRIC SERVICE, PANELS, BREAKERS, AND WIRE ARE PROPERLY SIZED TO HANDLE LOADS. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL FIXTURES, JUNCTION BOXES, OUTLETS, SWITCHES AND WIRING SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE JOB.
 - ELECTRICAL CONTRACTOR SHALL INSTALL SERVICE TO NEW EQUIPMENT ONLY FROM APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT, WHICH SHOWS AND DIMENSIONS ALL CONNECTION POINTS. SUBMIT SHOP DRAWINGS SHOWING ALL NEW PANELS, CIRCUITING, BREAKERS, ETC. TO ARCHITECT FOR APPROVAL.
 - DIRECT BURIAL PVC CONDUIT MAY BE SUBSTITUTED FOR UNDER SLAB WORK IF INSTALLED ACCORDING TO N.E.C. AND APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION. SWEEP ELBOWS PENETRATING THE CONCRETE SLAB SHALL BE STEEL. NO PVC CONDUIT OF ANY TYPE SHALL BE INSTALLED PENETRATING THE SLAB OR ABOVE SLAB.
 - SERVICE ENTRANCE CABLE SIZES ARE BASED ON ALUMINUM. ALL OTHER WIRE SIZES ARE BASED ON COPPER. ALUMINUM WIRE MAY BE SUBSTITUTED FOR COPPER FROM TRANSFORMER TO MAIN SWITCH GEAR (WHERE OCCURS) IF APPROVED BY LOCAL POWER COMPANY. FEEDER WIRE AND CONDUIT FROM SWITCH GEAR TO PANELS MAY BE CHANGED TO ALUMINUM IF RESIZED IN ACCORDANCE WITH N.E.C.
 - ALL EXIT AND EMERGENCY EGRESS LIGHTS SHALL BE BATTERY-PACK TYPE, AND SHALL BE WIRED INTO THE NEAREST POWER CIRCUIT AHEAD OF ANY SWITCHING.
 - WIRING RUN THRU MASONRY SHALL BE IN CONDUIT. INSTALLED AS THE MASONRY IS LAID UP. WIRINGS MAY BE RUN IN THE WALL INSULATION SPACE AND MAY BE ROMEX TYPE IF APPROVED BY CODE.
 - ALL LIGHT FIXTURES SHALL BE NOTED ON THE FIXTURE SCHEDULE AND CUT SHEETS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY FIXTURES.
 - ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE FIXTURE INSTALLATION, AND SHALL THEN TEST THE ENTIRE SYSTEM IN THE PRESENCE OF THE ARCHITECT UPON COMPLETION TO ENSURE THE ABSENCE OF SHORT CIRCUITS AND GROUNDS.
 - ALL ELECTRIC PANELS EXPOSED TO VIEW SHALL HAVE THE COVERS AND DOORS PAINTED WITH SEMI-GLOSS PAINT TO MATCH ADJACENT WALLS, AS SPECIFIED UNDER THE PAINTING SPECIFICATIONS.
 - ALL DUPLEX OUTLETS AND COMMUNICATION JUNCTION BOXES SHALL BE AT 48" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. SWITCH BOXES SHALL BE INSTALLED AT 48" ABOVE FINISH FLOOR TO THE TOP, UNLESS NOTED OTHERWISE. OUTLETS SHALL NOT BE LOCATED IN THE SAME STUD SPACE ON OPPOSITE SIDES OF A COMMON WALL.



**JESTER
JONES
SCHIFER
ARCHITECTS**
LTD

Our Marion Office...
355 East Center Street
Suite 200
Marion, Ohio 43002
Phone: (740) 382-6840
Fax: (740) 387-0318
E-mail: marion@jjsa.net

Our Columbus Office...
At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
Fax: (614) 761-3996
E-mail: dublin@jjsa.net

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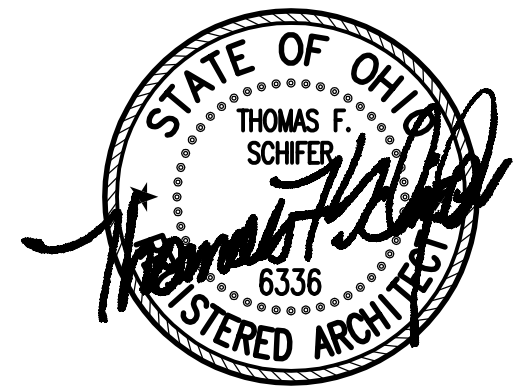
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JESTER
JONES
SCHIFER
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LTD

Our Marion Office...
355 East Center Street
Suite 200
Marion, Ohio 43302
Phone: (740) 382-6840
Fax: (740) 387-0318
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Our Columbus Office...
At Quarry Place
6209 Riverside Drive
Suite 200
Dublin, Ohio 43017
Phone: (614) 761-1707
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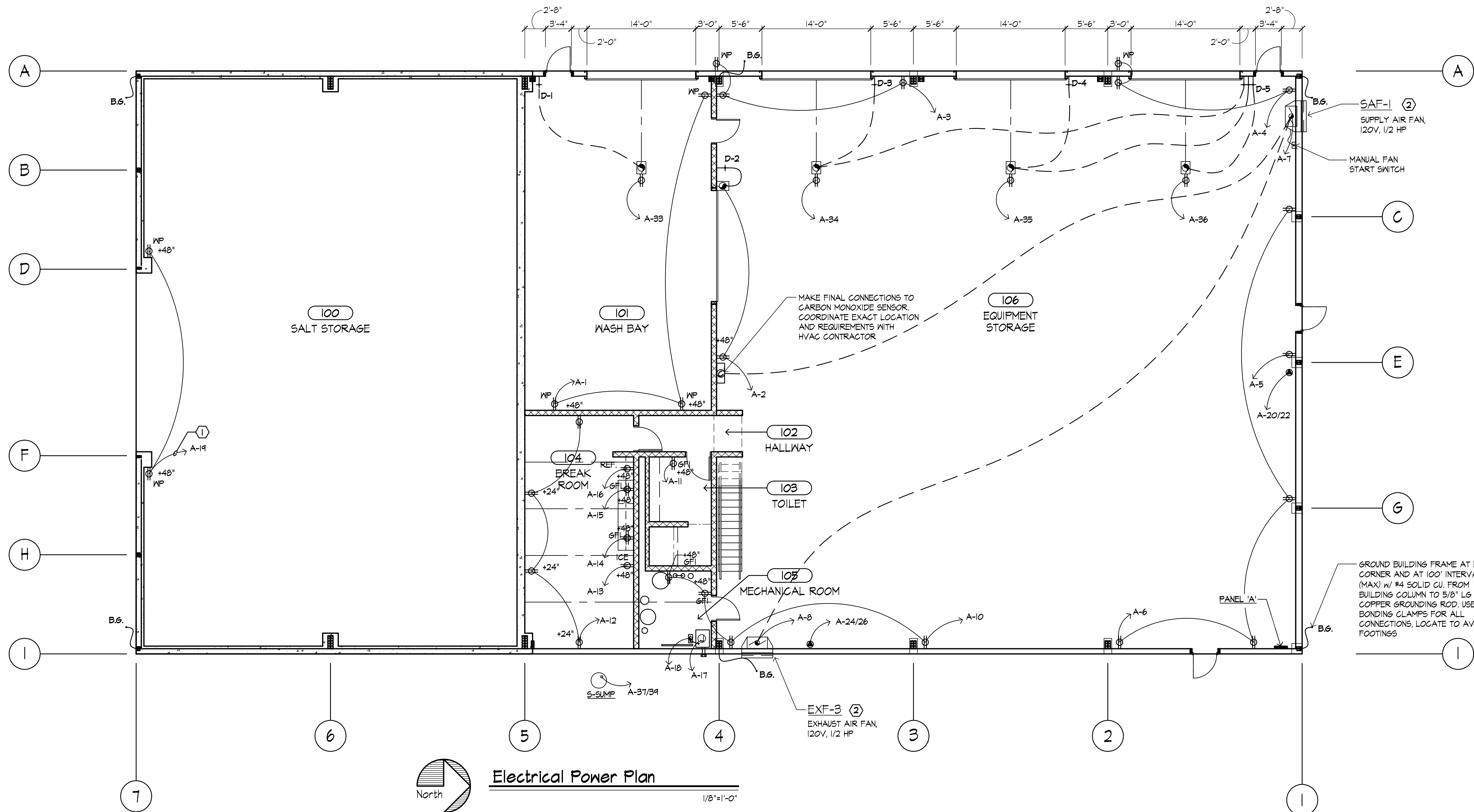
Marion, Ohio

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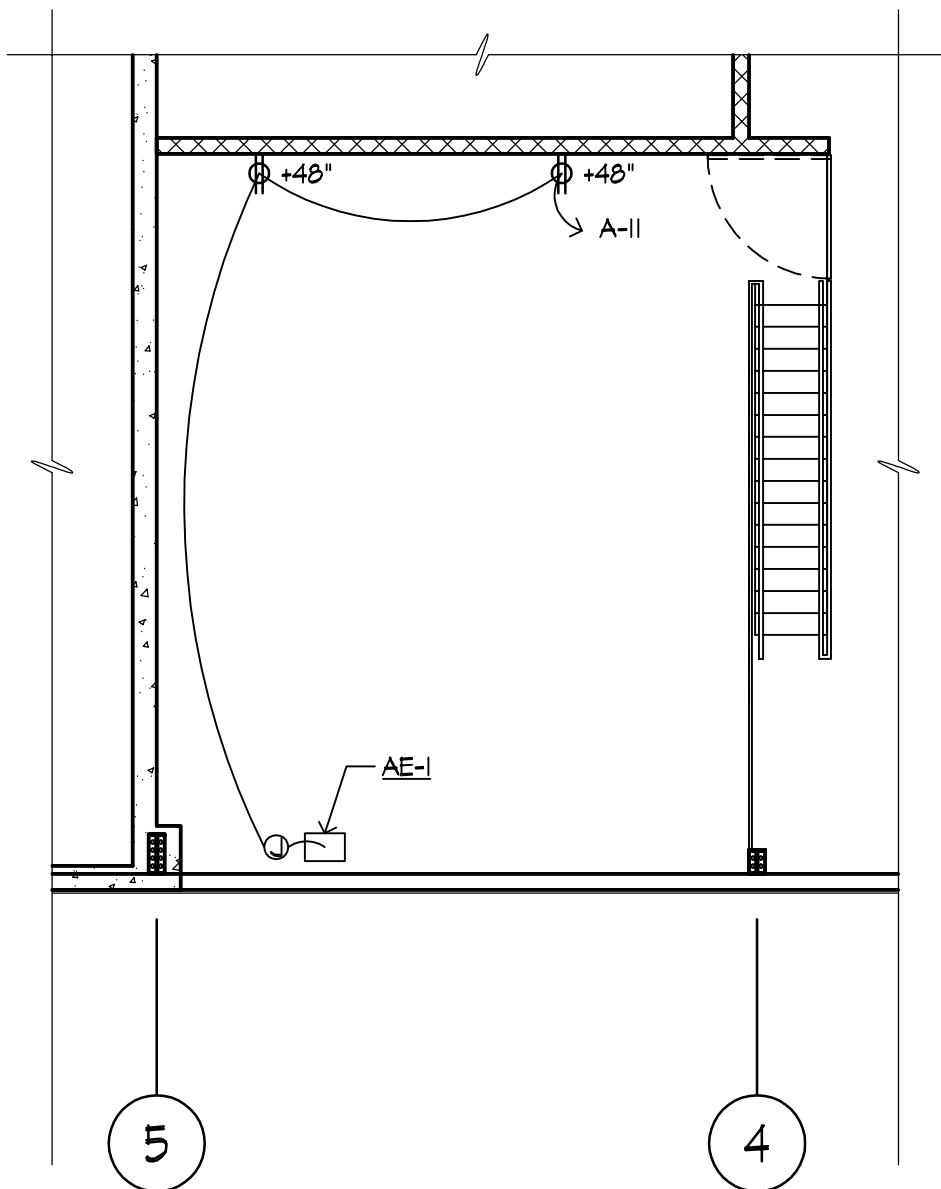
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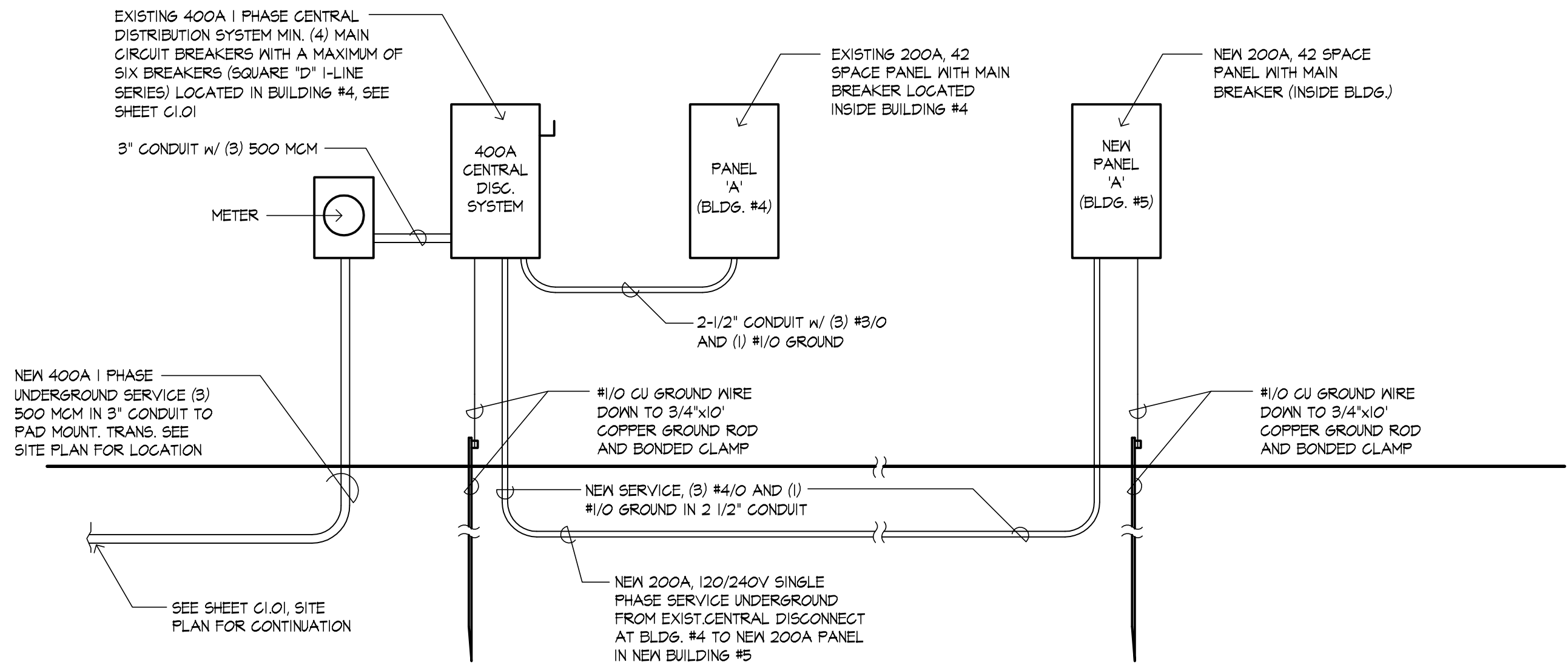
E1.02



Electrical Legend	
	JUNCTION BOX
	DUPLEX RECEPTACLE, MOUNT @ 48" A.F.F., UNLESS NOTED OTHERWISE
	QUADRAPLEX RECEPTACLE, MOUNT @ 48" A.F.F., UNLESS NOTED OTHERWISE
	GFI PROTECTED OUTLET
	TOGGLE SWITCH - SINGLE POLE, MOUNT AT 48" A.F.F.
	TOGGLE SWITCH - 3-WAY, MOUNT AT 48" A.F.F.
	SAFETY SWITCH / DISCONNECT
	SPECIAL VOLTAGE, MOUNT AT 48" A.F.F.
	MOTOR
	ELECTRICAL PANEL
	CONTROL SWITCH FOR OVERHEAD DOORS, MOUNT AT 48" A.F.F.



Mezzanine Power Plan



Power Riser Diagram

N.T.S.

PANEL NO.	A	200 AMP 10,000 A.I.C.				TRIM @ FLUSH @ SURFACE		
		120/240 VOLT.	1 Ø 3 W 60 HZ.			Ø W/ GROUND BUS	Ø W/ MAIN CIRCUIT BREAKER	
TYPE		FED FROM	LOCATION	** WITH "LOCK-ON"	Ø W/ SOLID NEUTRAL	Ø W/ MAIN LUGS ONLY		
LOAD		WIRE SIZE	Ø B P	Ø B P	WIRE SIZE		LOAD	
WASH BAY RECEPT (GFI)		12	20/1	1	2	20/1	12	SOUTH MECH RECEPT/DR D2
MECHANICS RECEPT		12	20/1	3	4	20/1	12	MECHANICS RECEPT
MECHANICS RECEPT		12	20/1	5	6	20/1	12	MECHANICS RECEPT
SUPPLY AIR FAN		12	20/1	7	8	20/1	12	EXHAUST AIR FAN
MEZZANINE		12	20/1	4	10	20/1	12	MECHANICAL ROOM
BATH (GFI)		12	20/1	11	12	20/1	12	BREAK ROOM RECEPT
ICE MACHINE		12	20/1	13	14	20/1	12	RIGHT BREAK RM COUNTER
LEFT BREAK RM COUNTER		12	20/1	15	16	20/1	12	REFRIGERATOR
BOILER		12	20/1	17	18	20/1	12	HOT WATER PUMPS
SALT BIN RECEPT		12	20/1	19	20	30/	6	WELDER
BATH AND HALL LIGHTS		12	20/1	21	22	/2		
BREAK ROOM LIGHTS		12	20/1	23	24	30/	8	AIR COMPRESSOR
SALT STORAGE LIGHTS		10	20/	25	26	/2		
			/2	27	28	20/1	12	OUTSIDE PERIMETER LIGHTS
WASH BAY LIGHTS		10	30/	29	30	30/	10	MECHANICS LIGHTS
MECHANICS LIGHTS			/2	31	32	/2		
O.H. DOOR D1		12	20/1	33	34	20/1	12	O.H. DOOR D3
O.H. DOOR D4		12	20/1	35	36	20/1	12	O.H. DOOR D5
SEWAGE		10	20/	37	38	20/1	12	SPARE
SUMP			/2	39	40	30/	10	WELL PUMP
SPARE		12	20/1	41	42	/2		

New Work Notes

① WIRE TO GFI CIRCUIT BREAKER

② MAKE ALL FINAL CONNECTIONS TO THE SUPPLY AIR FAN AND EXHAUST AIR FAN AS NECESSARY, COORDINATE EXACT LOCATION AND ALL ROUGH-IN AND FINAL WIRING REQUIREMENTS WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN. THE SAF-1 IS MANUALLY OPERATED BY SWITCH AND INTERLOCKED WITH EXF-3. THE EXF-3 IS INTERLOCKED WITH SAF-1 AND THE GAS MONITORING SYSTEM. FOR AUTOMATIC START/STOP LOUVERS ARE EQUIPPED WITH MOTORIZED DAMPERS TO INTERLOCK WITH FAN OPERATION. THE TWO SPEED MOTOR FANS SHALL RUN AT HALF SPEED FOR NORMAL OPERATION AND FULL SPEED FOR CO SENSOR ACTIVATION TO ACHIEVE THE FULL VENTILATION RATE.