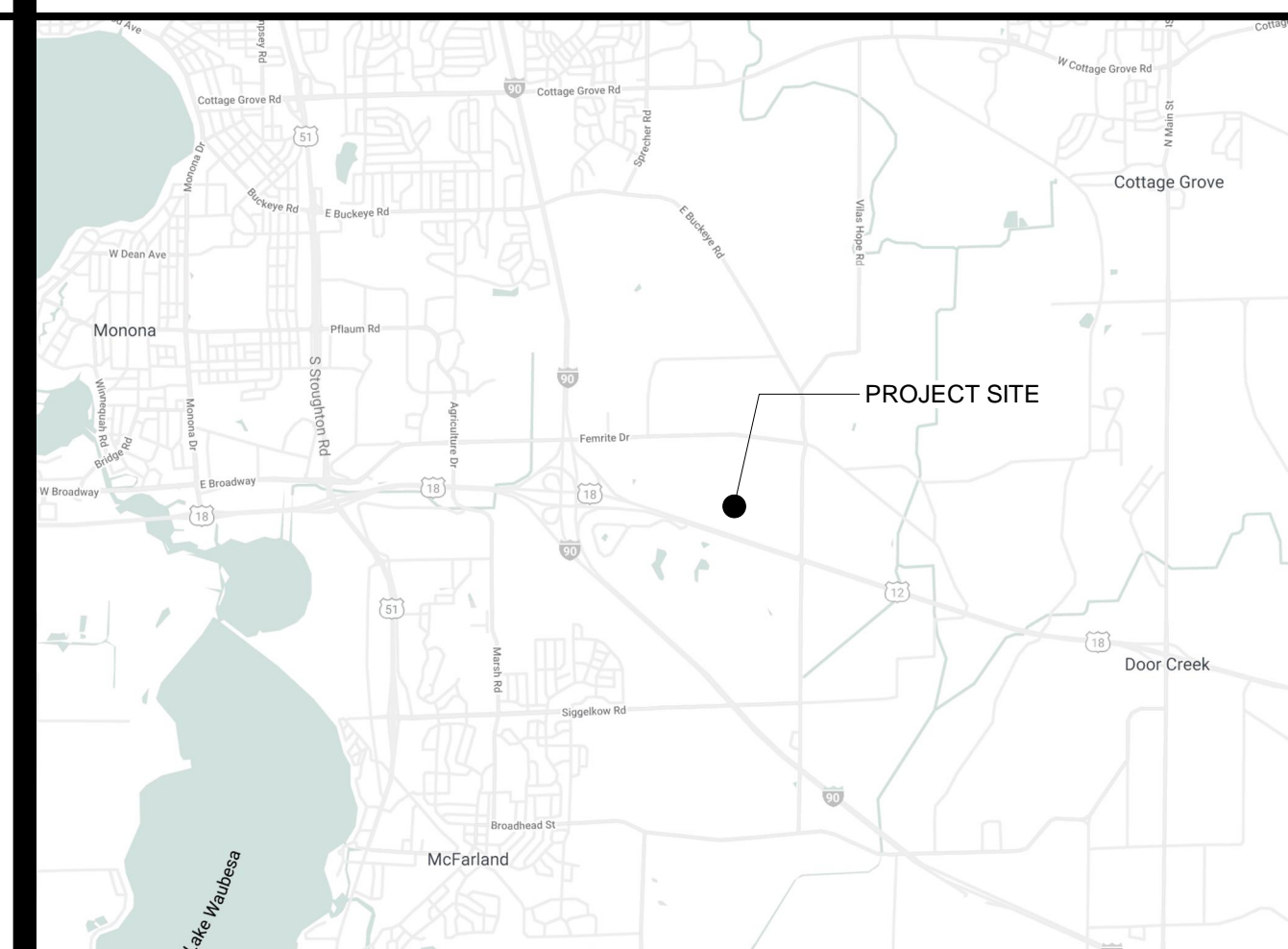


### CODE SUMMARY

SECTION	REMARKS
311.2	OCCUPANCY CLASS = S1 - STORAGE - MODERATE HAZARD
506.2	TABULAR ALLOWABLE AREA = 17,500 S.F. ACTUAL AREA = 3000 S.F. < 17,500 S.F.
601.1	CONSTRUCTION CLASS = TYPE IIB
1004.1.2	OCCUPANT LOAD = 3,000 S.F. / 100 = 30 OCCUPANTS.
1005.3.2	REQUIRED EGRESS WIDTH = 100 x 0.2 = 20". PROVIDED EGRESS WIDTH = 72".
1006.2.1	TWO EXITS ARE PROVIDED AS REQUIRED.
1007.1.1	EXITS ARE SEPARATED BY A DISTANCE > 1/2 DIAGONAL DIMENSION.
1017.2	EXIT TRAVEL DISTANCE LIMIT = 200'. MAX. ACTUAL DISTANCE = 70'.

### SITE MAP



### GENERAL NOTES

- Verify all dimensions, access, utilities and working conditions in the field.
- Conform to all applicable codes, ordinances and safety standards.
- Obtain and pay for all required permits and fees.
- Notify Architect immediately if work cannot proceed as shown on Drawings or as described in the Specifications.
- No concrete to be poured without Architect's prior review.
- All Contractor's to co-operate with all trades, Owner's and Architect's representatives.
- Leave site clean, neat and free of debris at all times.
- Each Prime and Sub-contractor is responsible for having read each page of the Specifications, Drawings, Addenda and Change Orders.
- Guard against interfering with Owner's operations.
- These Drawings contain no provisions or procedures for on-site safety. Each Contractor and their employees are responsible to follow all laws and ordinances and provide their own engineering to provide a safe work place.
- The locations of existing underground utilities, shown on these Drawings, are shown in an approximate way only and have not been independently verified by the Owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.
- Services perform for this project have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in this area under similar budget and time constraints. No warranty, expressed or implied, is made.

### MATERIAL INDICATIONS

Earth Backfill		Sand Fill	
Rigid Insulation		Concrete	
Concrete Block		Finished Wood	
Aluminum		Stone Fill	
Lumber (Rough)		Plywood	
Steel		Batt Insulation	

### DRAWING LEGEND

+ 100.0	New or Required Point Elevation		Detail Number
+ 100.0	Existing Point Elevation		Page Number
+ 100.0	Existing Contours		Building Section
+ 100.0	New or Required Contours		Wall Section
A	Grid Lines		Detail Section
Room Name #	Room/Space Number		Interior Elevation
101A	Door Number		Exterior Elevation
OH 101A	OH Door Number		
#	Wall Tag		

### CONSULTANTS

ARCHITECT	<b>Kueny Architects</b> (262) 857-8101 Architect of Record - Jon P. Wallenkamp	10505 Corporate Drive, Suite 100 Pleasant Prairie, Wisconsin 53158
PLUMBING	<b>Southport Engineered Systems</b> (262) 818-4409 Project Manager - Tim Pann	1343 South 27th Street Caledonia, Wisconsin 53108
H.V.A.C.	<b>Southport Engineered Systems</b> (262) 654-6630 Project Manager - Tim Pann	1343 South 27th Street Caledonia, Wisconsin 53108
ELECTRICAL	<b>Hanson and Associates, Inc.</b> (262) 654-2010 Project Manager - Dave Hanson	6402 32nd Avenue Kenosha, Wisconsin 53142

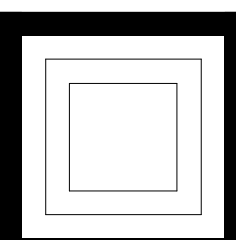
### SHEET INDEX

01	Title Sheet	MECHANICAL	M100 Mechanical Plan
ARCHITECTURAL	A100 Existing Site Plan	ELECTRICAL	E101 Shop Lighting Plan
A101	Overall Site Plan	E201	Shop Lighting Plan
A102	Architectural Site Plan	E202	Shop Power and Systems Plan
A103	Existing Utilities Site Plan	E501	Schedules, Details
A201	Floor Plans and Schedules	E502	Schedules, Details
A202	Exterior Elevations		
A301	Building and Wall Sections		
A401	Wall Sections		
A501	Building Details		
STRUCTURAL	S901 Structural Plan and Details		



# Landfill Shop Building Dane County

**7102 US HWY 12/18  
Madison, WI 53718**



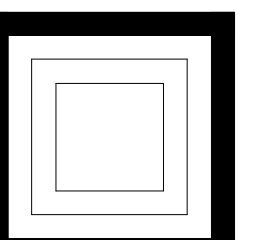
**KUENY ARCHITECTS, LLC**

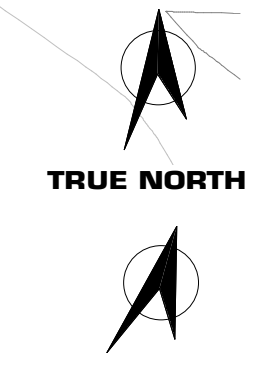
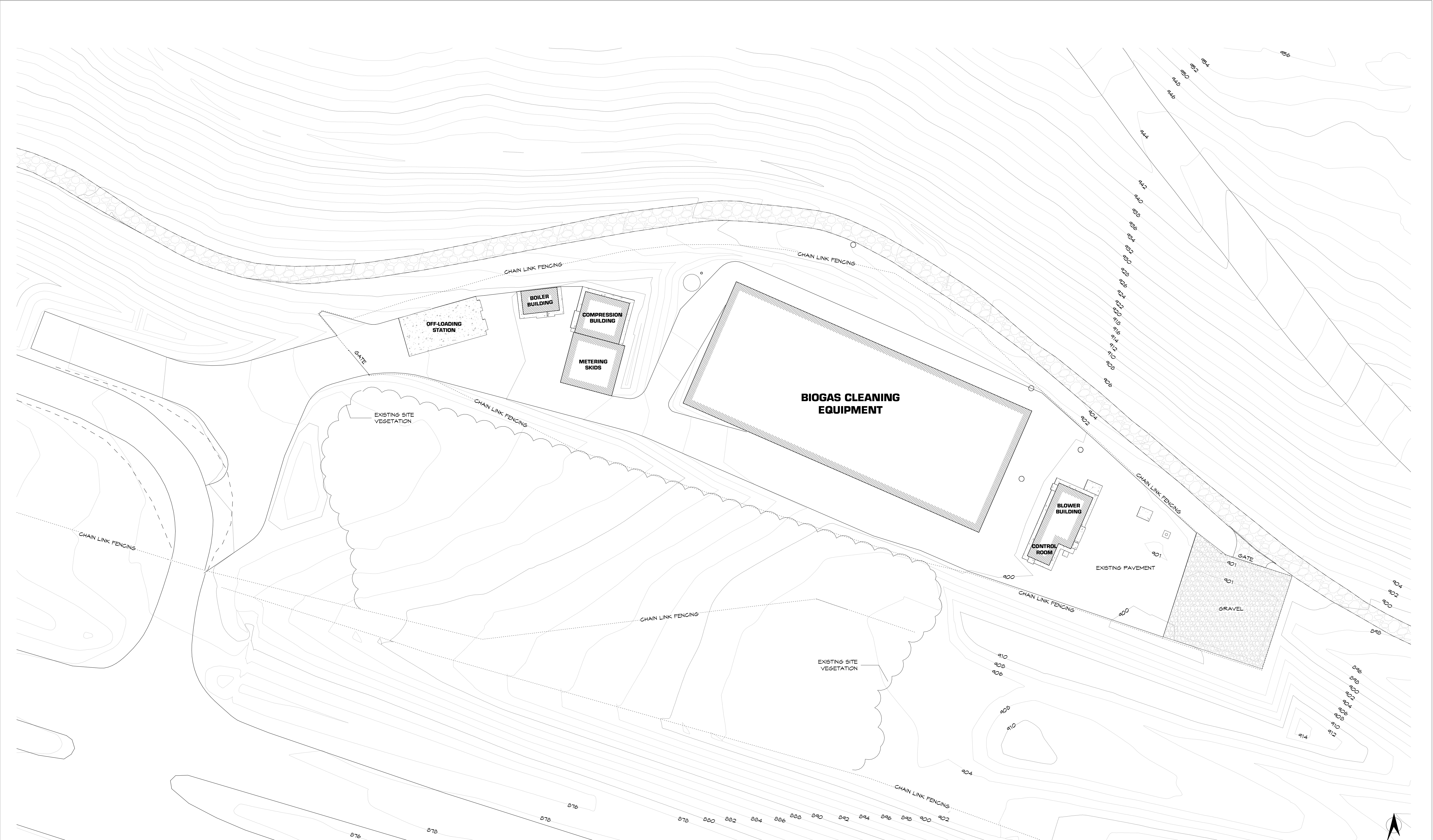
10505 CORPORATE DRIVE • SUITE 100 PLEASANT PRAIRIE, WI 53158

PHONE (262) 857-8101 FAX (262) 857 8103

**Dane County  
Landfill Shop Building  
BIDSET  
June 11, 2019**

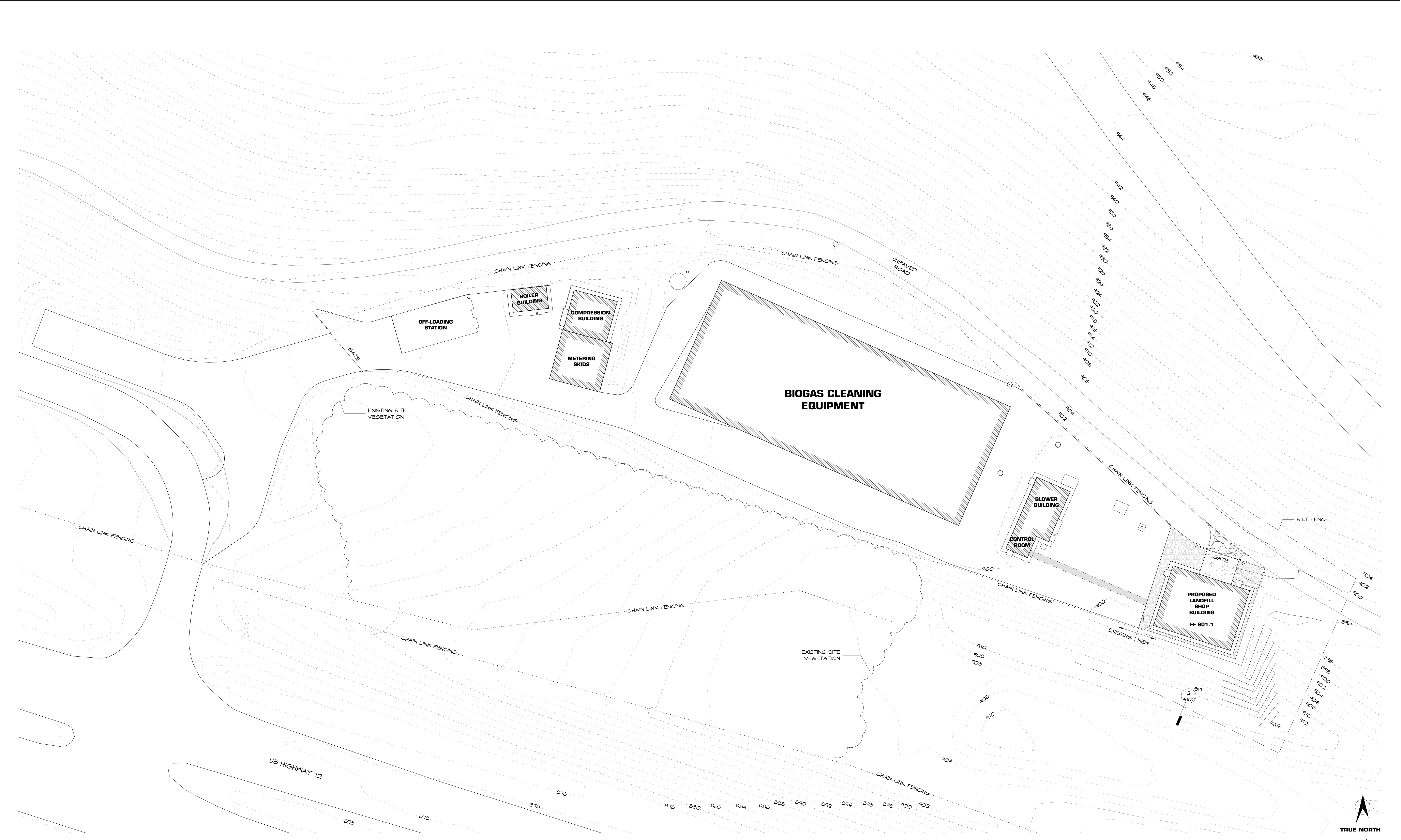
**1.0**





**Existing Site Plan**  
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 Dane County - Landfill Shop Building  
 7102 US HWY 12/18 Madison, WI 53718  
 June 11, 2019

**A100**  
 SCALE: 1" = 30'-0"



US HIGHWAY 12

**BIOGAS CLEANING EQUIPMENT**

OFF-LOADING STATION

BOILER BUILDING

COMPRESSION BUILDING

METERING SKIDS

BLOWER BUILDING

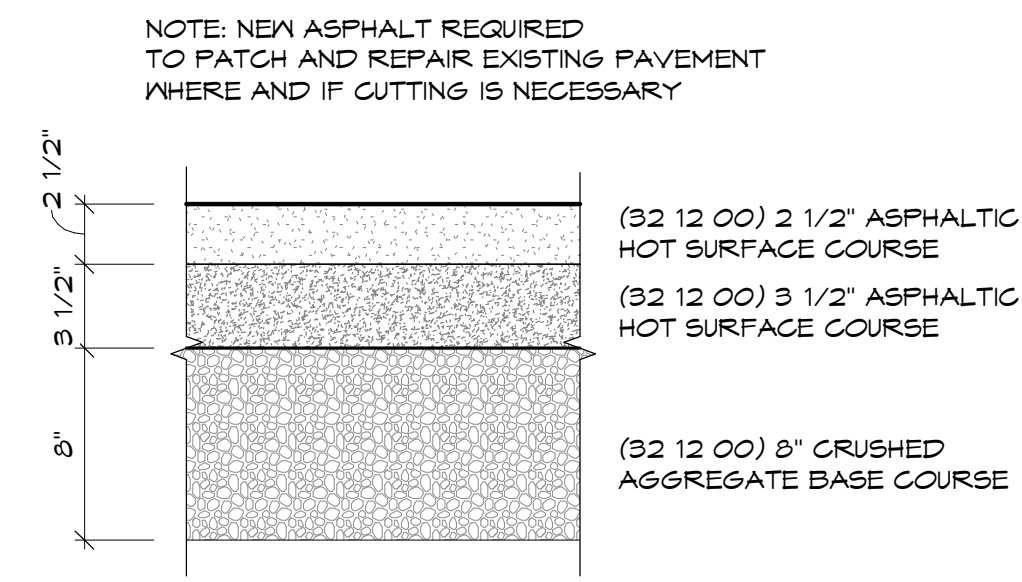
CONTROL ROOM

PROPOSED LANDFILL SHOP BUILDING  
FF 901.1

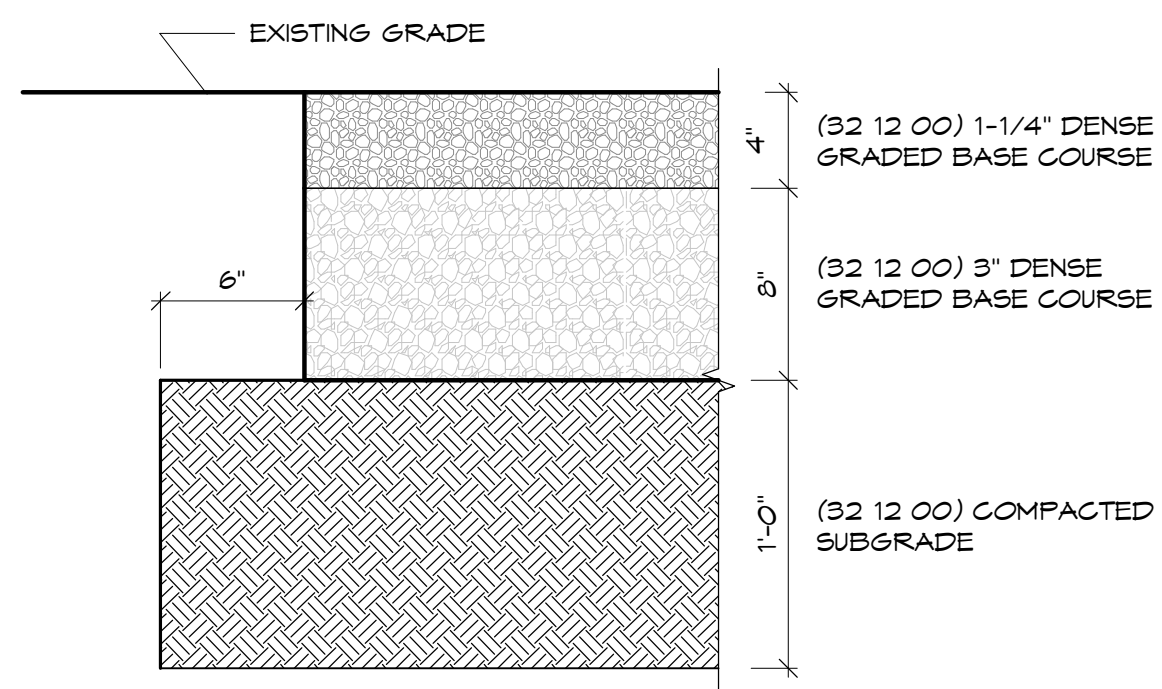


**Overall Site Plan**  
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 Dane County - Landfill Shop Building  
 7102 US HWY 12/18 Madison, WI 53718  
 June 11, 2019

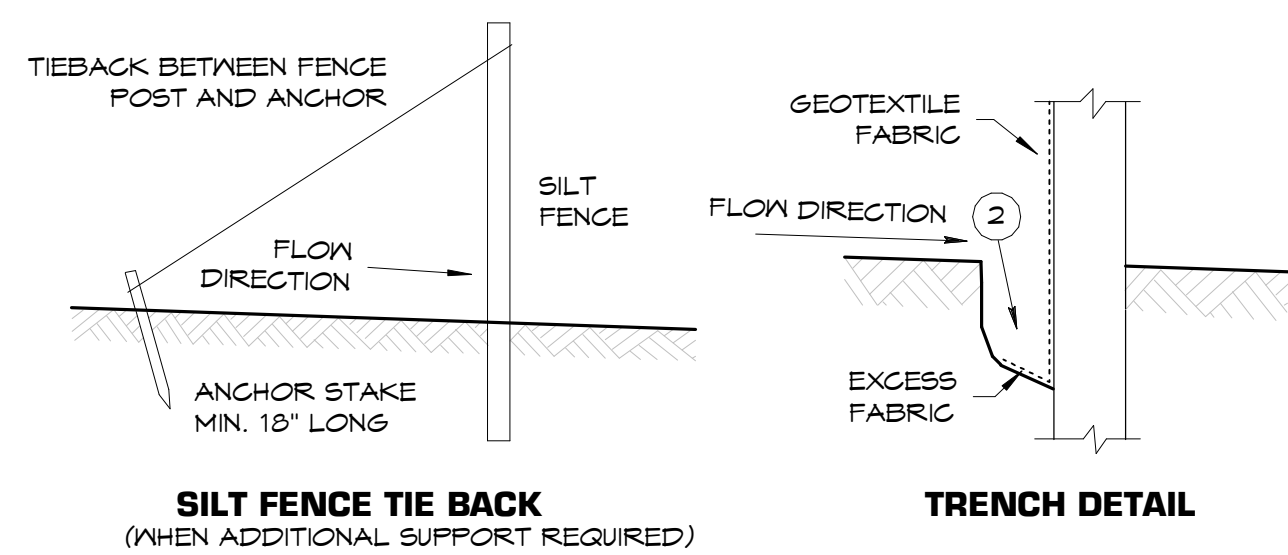
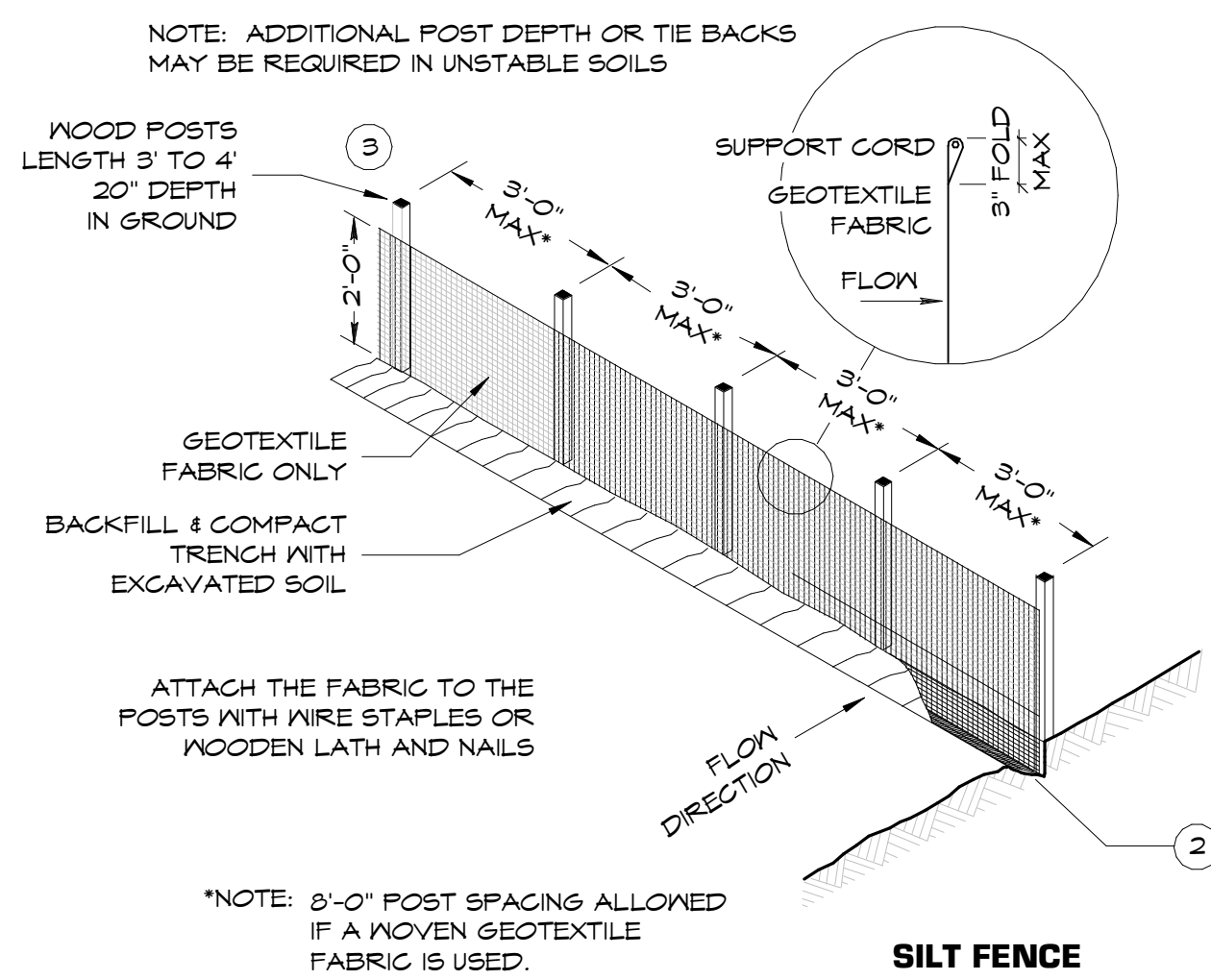
SCALE: 1" = 30'-0"  
**A101**



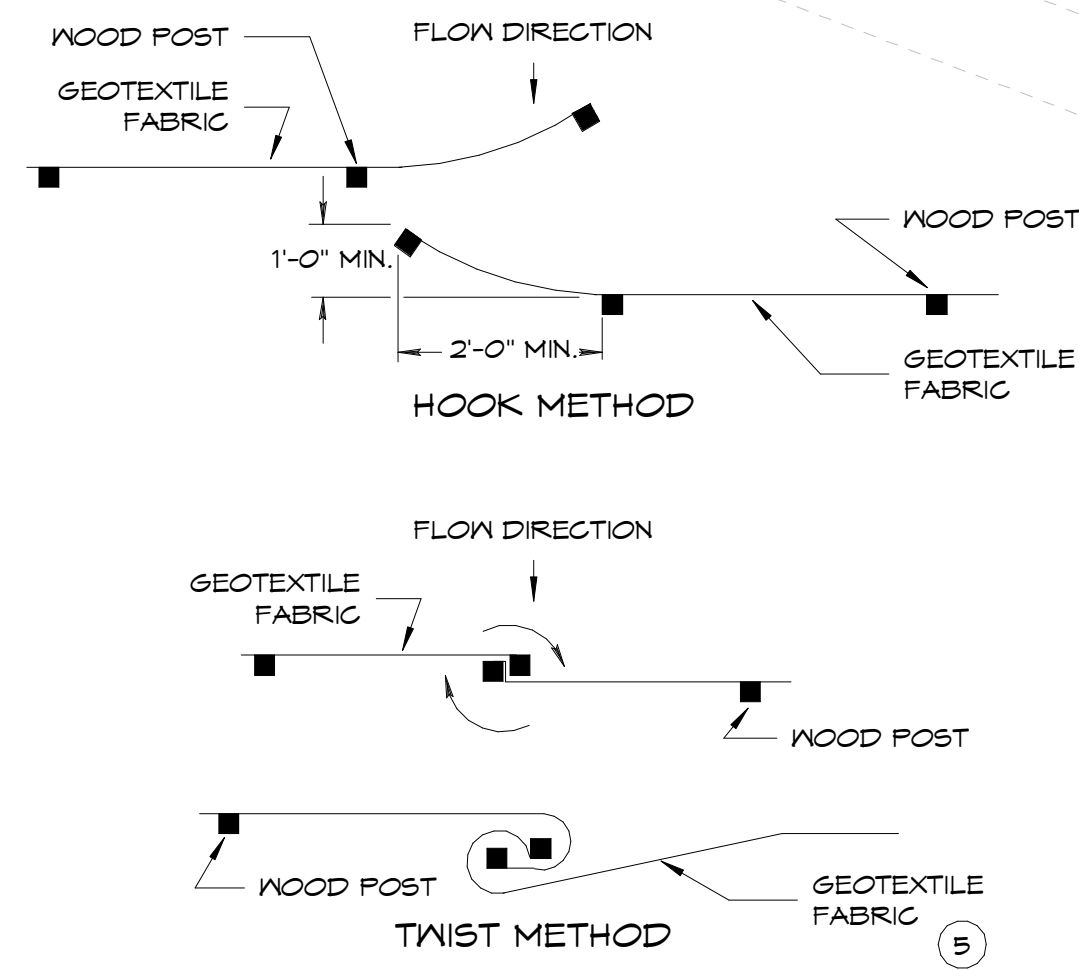
**4 New Asphalt Detail**  
 1 1/2" = 1'-0"



**3 New Gravel**  
 1 1/2" = 1'-0"



**2 Silt Fence Details**

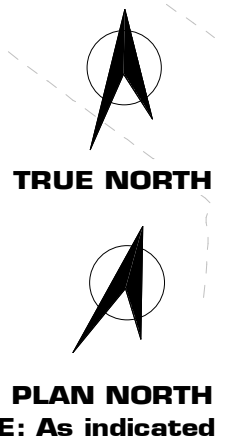
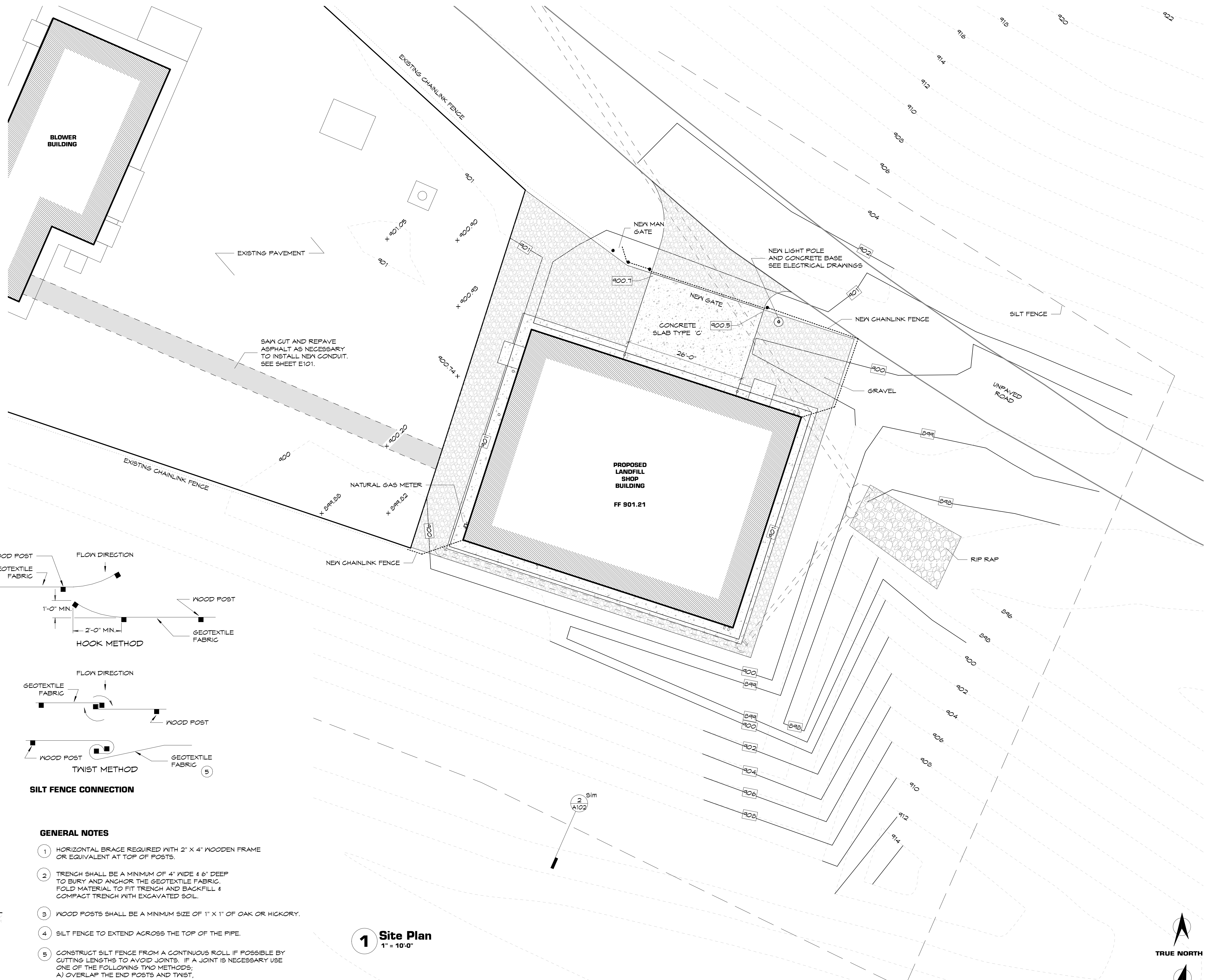


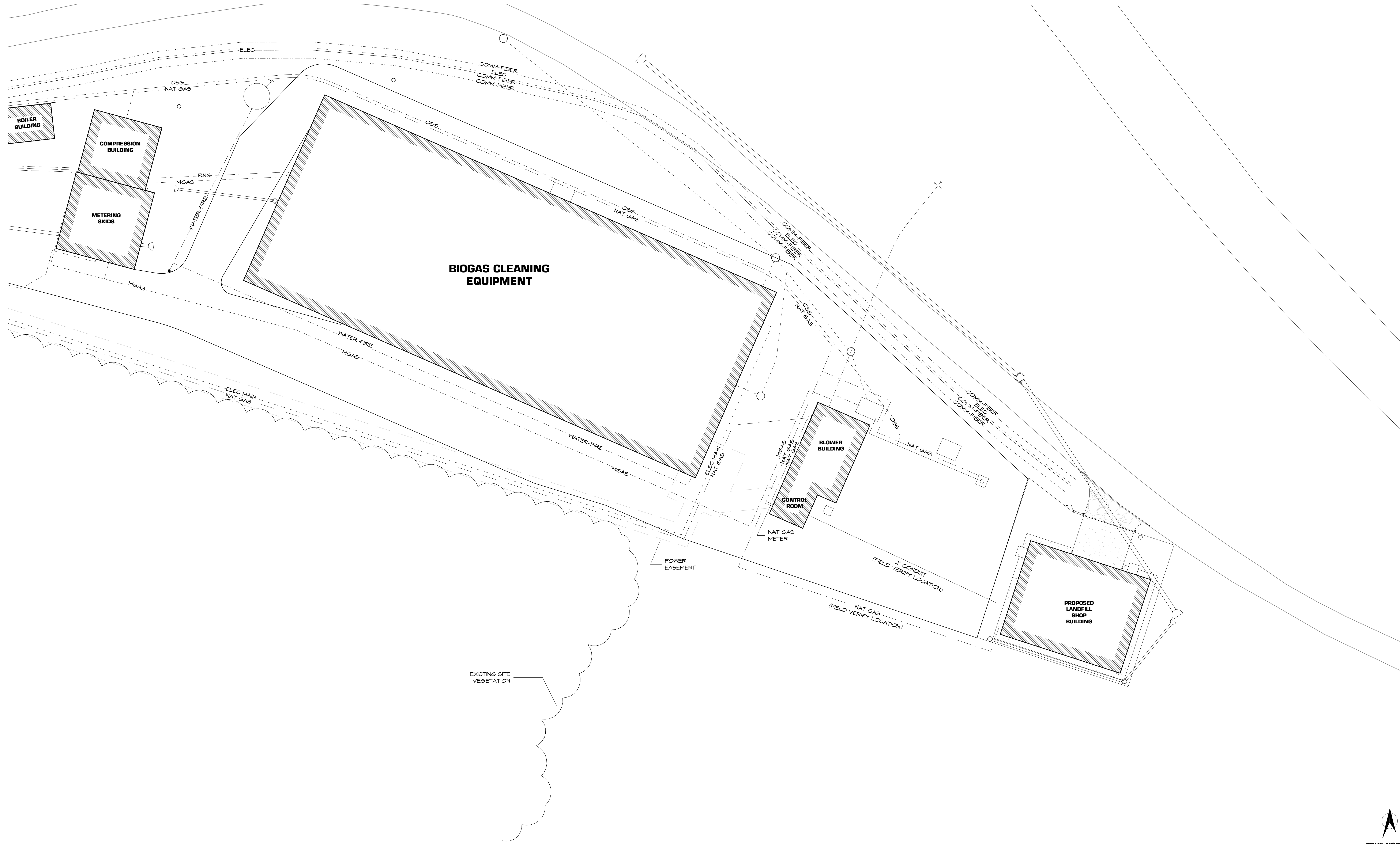
**SILT FENCE CONNECTION**

**GENERAL NOTES**

- HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
- SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS;  
 A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.  
 B) HOOK THE END OF EACH SILT FENCE LENGTH.

**1 Site Plan**  
 1" = 10'-0"





SCALE: 1" = 20'-0"

**Existing Utilities Site Plan**  
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 Dane County - Landfill Shop Building  
 7102 US HWY 12/18 Madison, WI 53718  
 June 11, 2019

**A103**

**DOOR SCHEDULE**

MARK	FROM ROOM		TO ROOM		LABEL	DOOR						FRAME			REMARKS		
	NUM	NAME	NUM	NAME		TYPE	MATERIAL	SWING	WIDTH	HEIGHT	THICKNESS	LOUVER	GLASS	TYPE		MATERIAL	GLASS
100B	-	exterior	100	storage	-	F	METAL	LHRB	3'-0"	7'-0"	1 3/4"	-	-	A	HM	-	Keyed doors are to match existing lock system
100C	100	storage	101	shop	-	F	METAL	LHRB	3'-0"	7'-0"	1 3/4"	-	-	A	HM	-	
101A	-	exterior	101	shop	-	F	METAL	LHRB	3'-0"	7'-0"	1 3/4"	-	-	A	HM	-	Keyed doors are to match existing lock system

**PAINT SCHEDULE**

ROOM	NUM	NAME	FLOOR	WALLS				CEILING	METAL	WOOD	REMARKS
				NORTH	SOUTH	EAST	WEST				
100	100	storage	Densifier	-	-	Epoxy	-	-	Enamel	Varnish	PAINT EXPOSED STEEL
101	101	shop	Densifier	-	-	-	Epoxy	-	Enamel	Varnish	PAINT EXPOSED STEEL

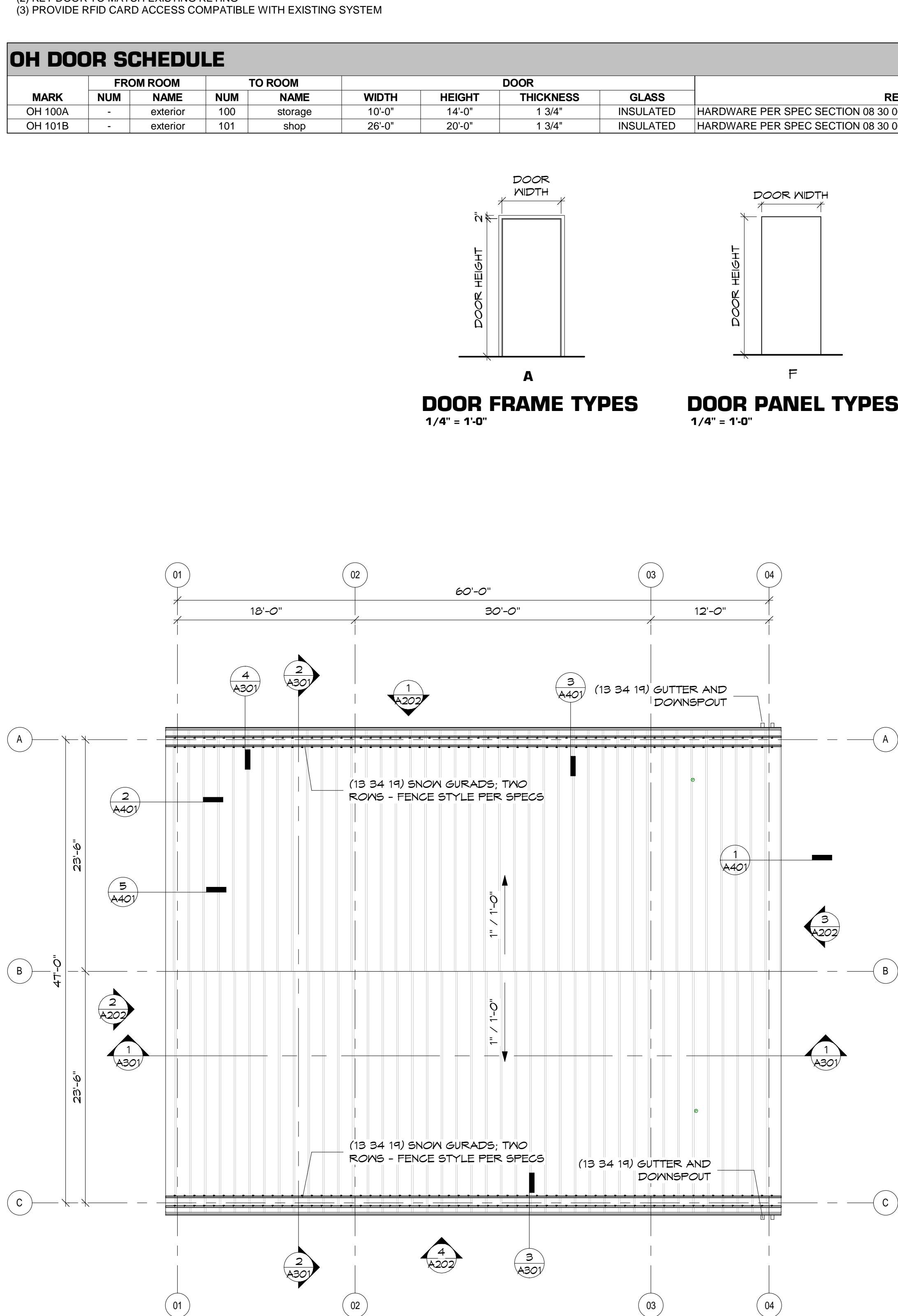
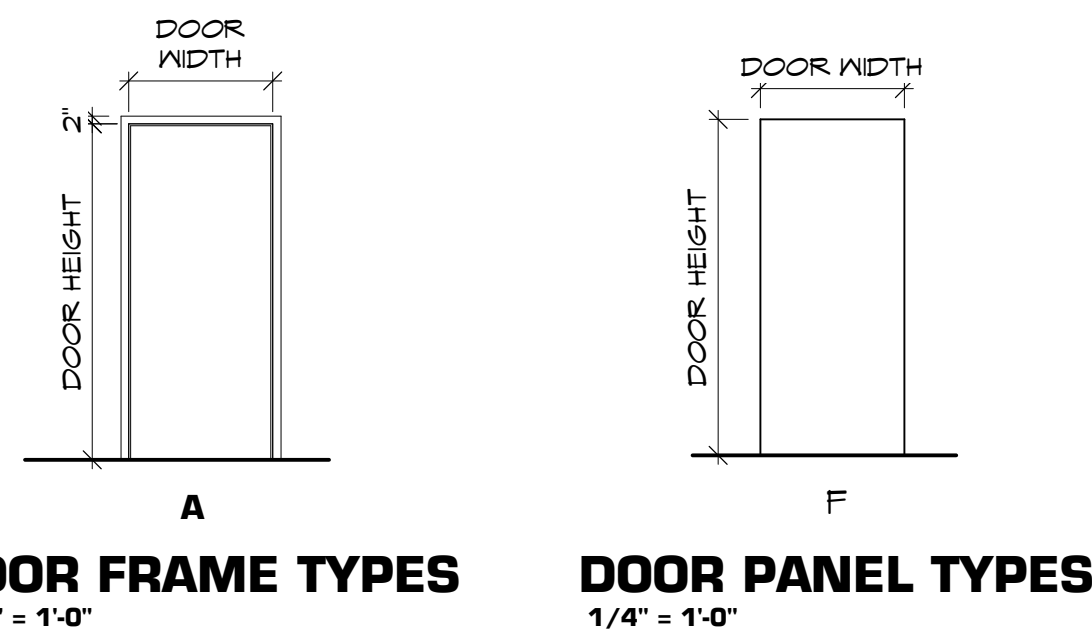
**HARDWARE SCHEDULE**

MARK	LOCKSET	PUSH-PULL	HOLD OPEN	CLOSER	HINGE	DOOR STOP	THRESHOLD	WEATHER STRIP	KICK PLATE	SOUND STOP	NAME PLATE	NOTES
100B	ENTRANCE	-	-	X	BB	-	X	X	X	X	-	(1)(2)(3)
100C	ENTRANCE	-	X	X	BB	-	X	X	X	X	-	(1)
101A	ENTRANCE	-	-	X	BB	-	X	X	X	X	-	(1)(2)(3)

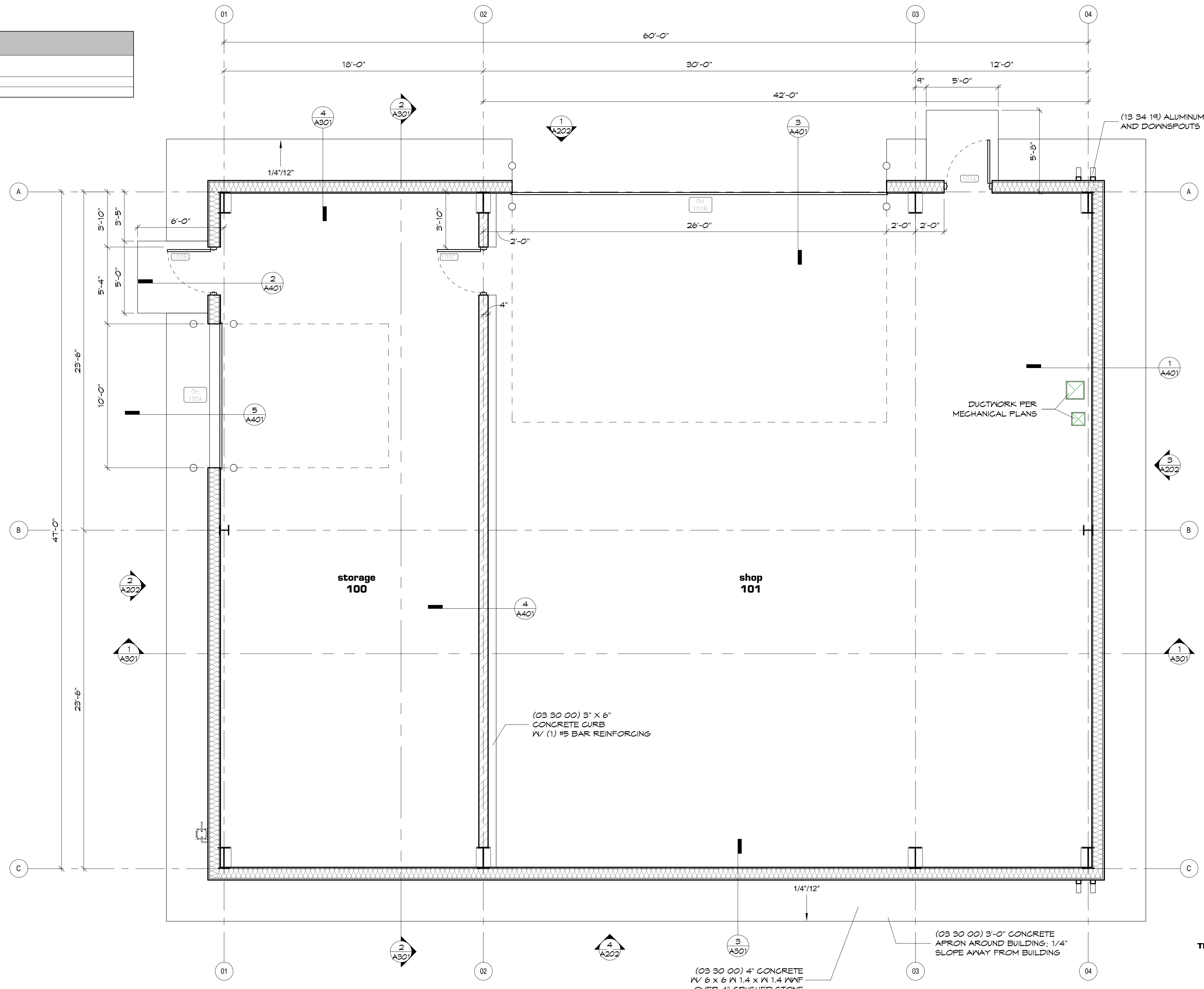
**HARDWARE NOTES:**  
 (1) KICKPLATE TO BE ON PUSH SIDE OF DOOR  
 (2) KEY DOOR TO MATCH EXISTING KEYING  
 (3) PROVIDE RFID CARD ACCESS COMPATIBLE WITH EXISTING SYSTEM

**OH DOOR SCHEDULE**

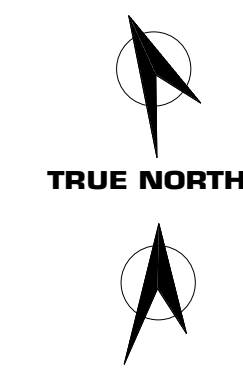
MARK	FROM ROOM		TO ROOM		DOOR				REMARKS
	NUM	NAME	NUM	NAME	WIDTH	HEIGHT	THICKNESS	GLASS	
OH 100A	-	exterior	100	storage	10'-0"	14'-0"	1 3/4"	INSULATED	HARDWARE PER SPEC SECTION 08 30 00
OH 101B	-	exterior	101	shop	26'-0"	20'-0"	1 3/4"	INSULATED	HARDWARE PER SPEC SECTION 08 30 00

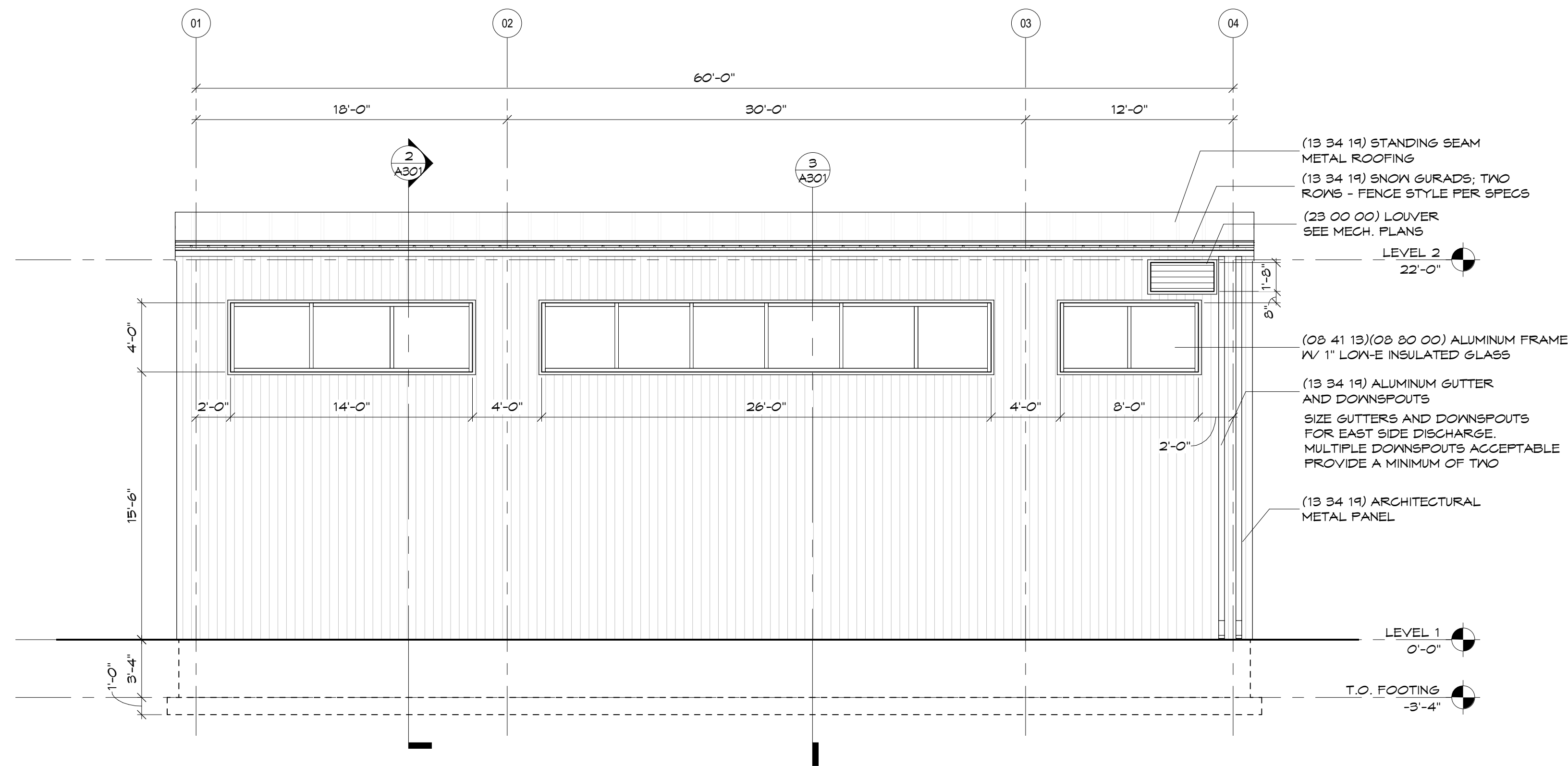


**2 Roof Plan**  
1/8" = 1'-0"

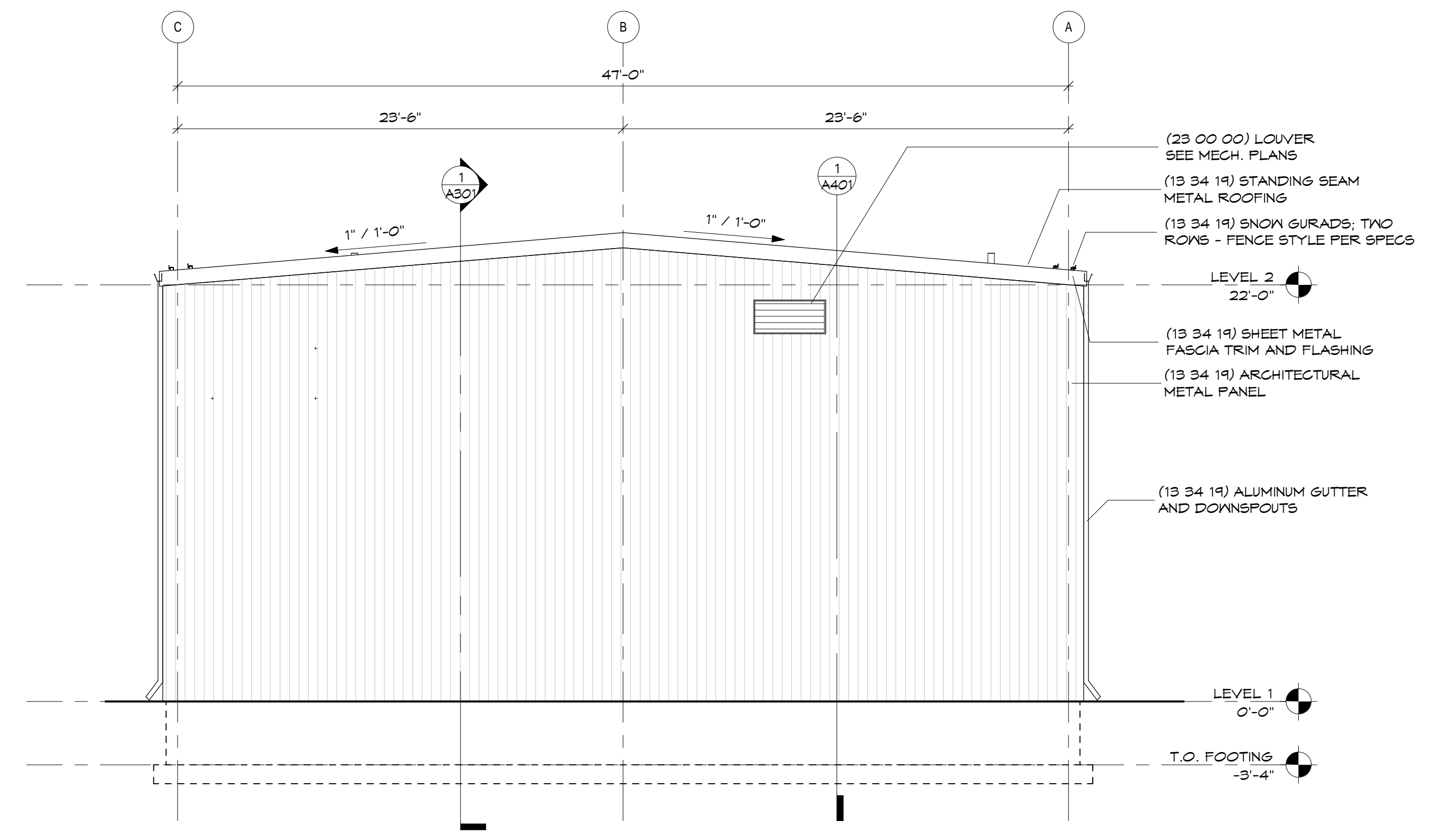


**1 Floor Plan - Overall**  
1/4" = 1'-0"

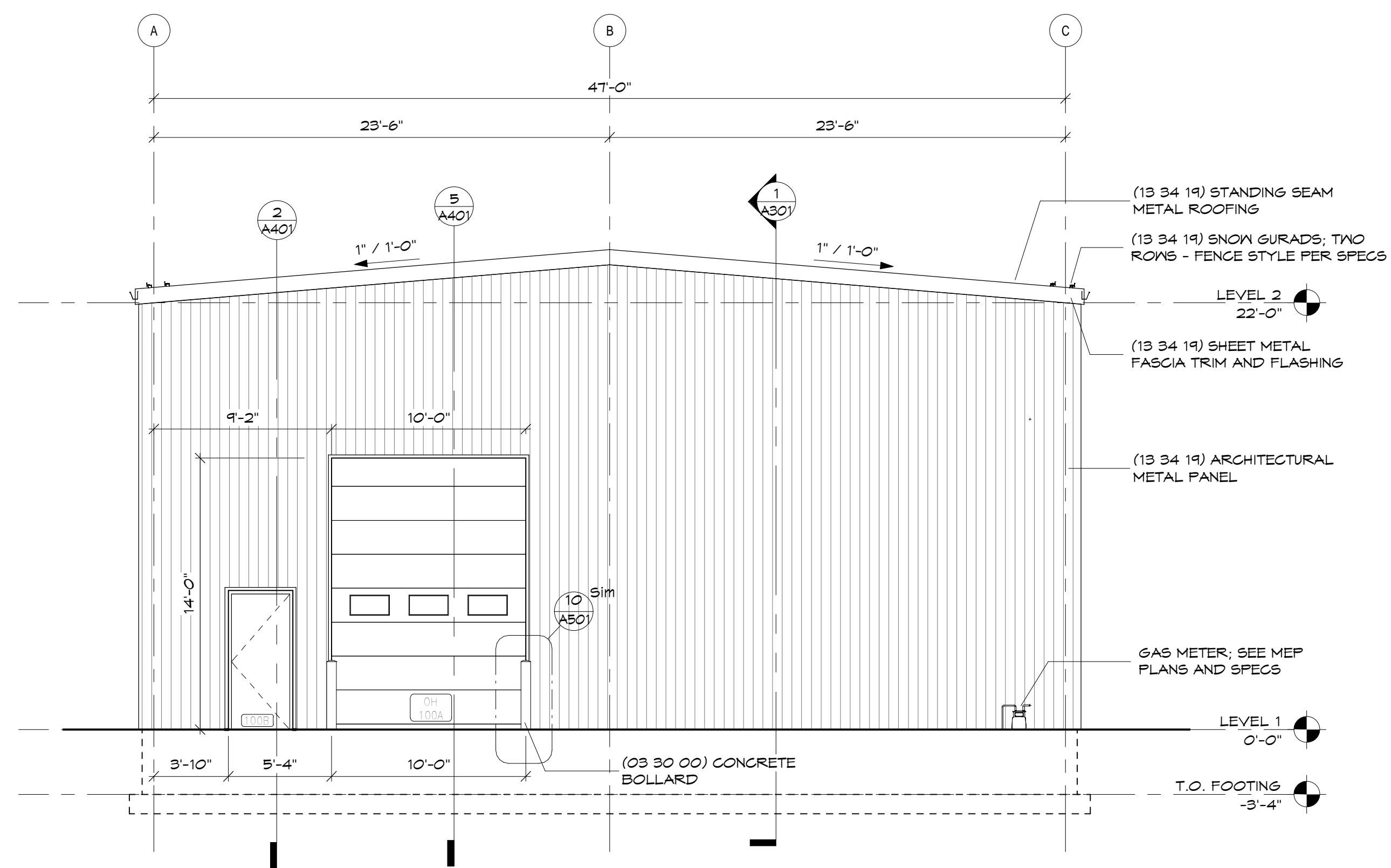




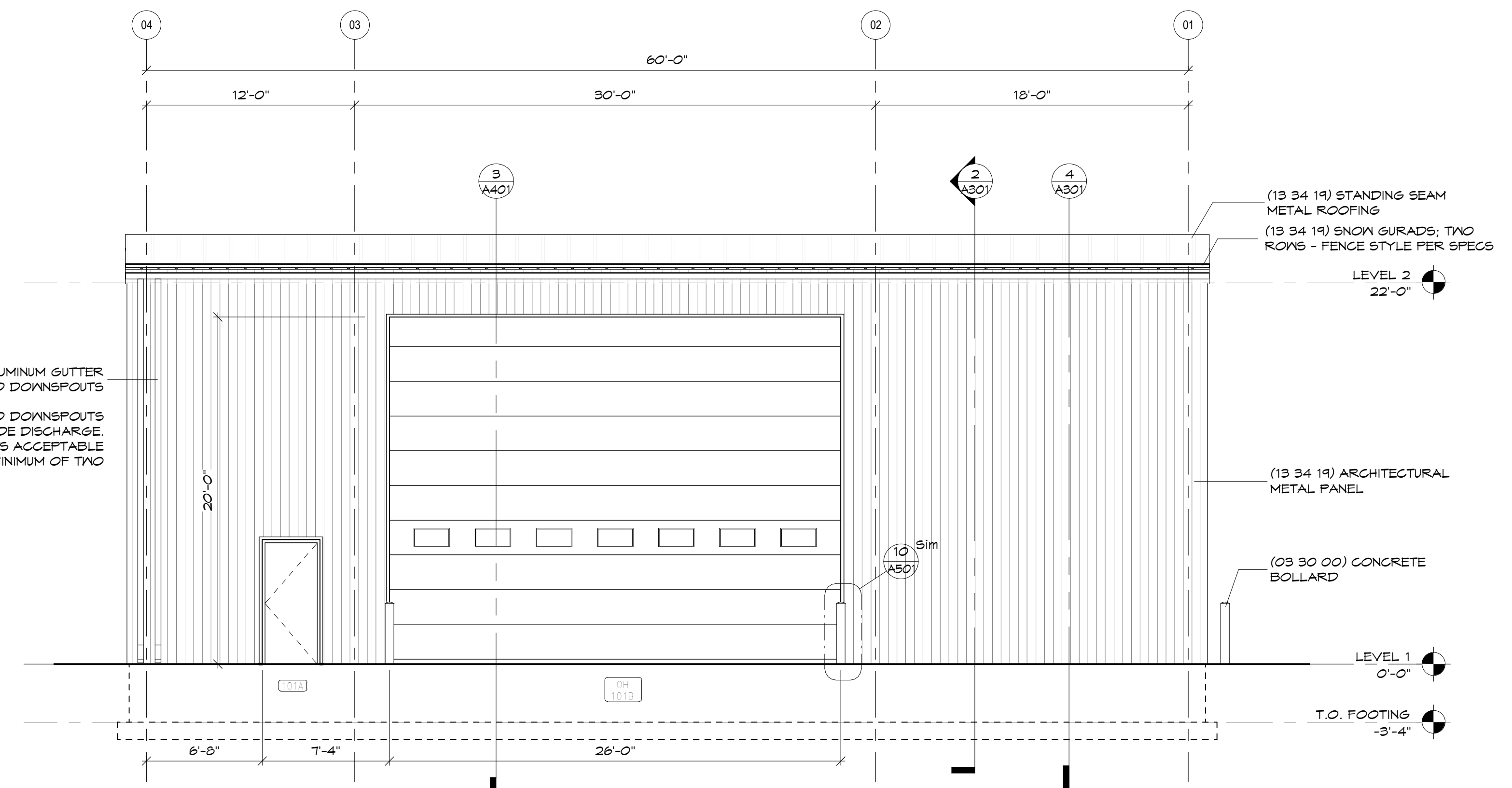
**4 South Elevation**  
3/16" = 1'-0"



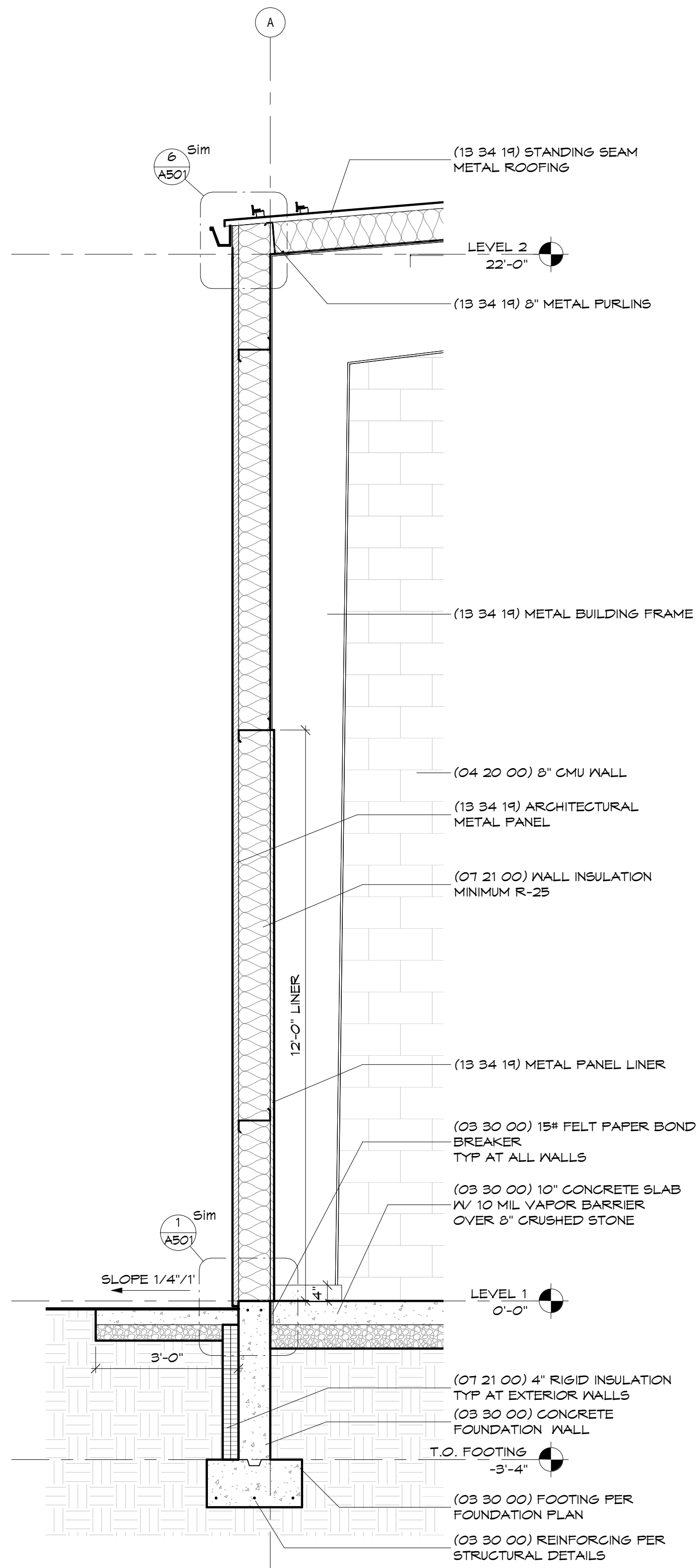
**3 East Elevation**  
3/16" = 1'-0"



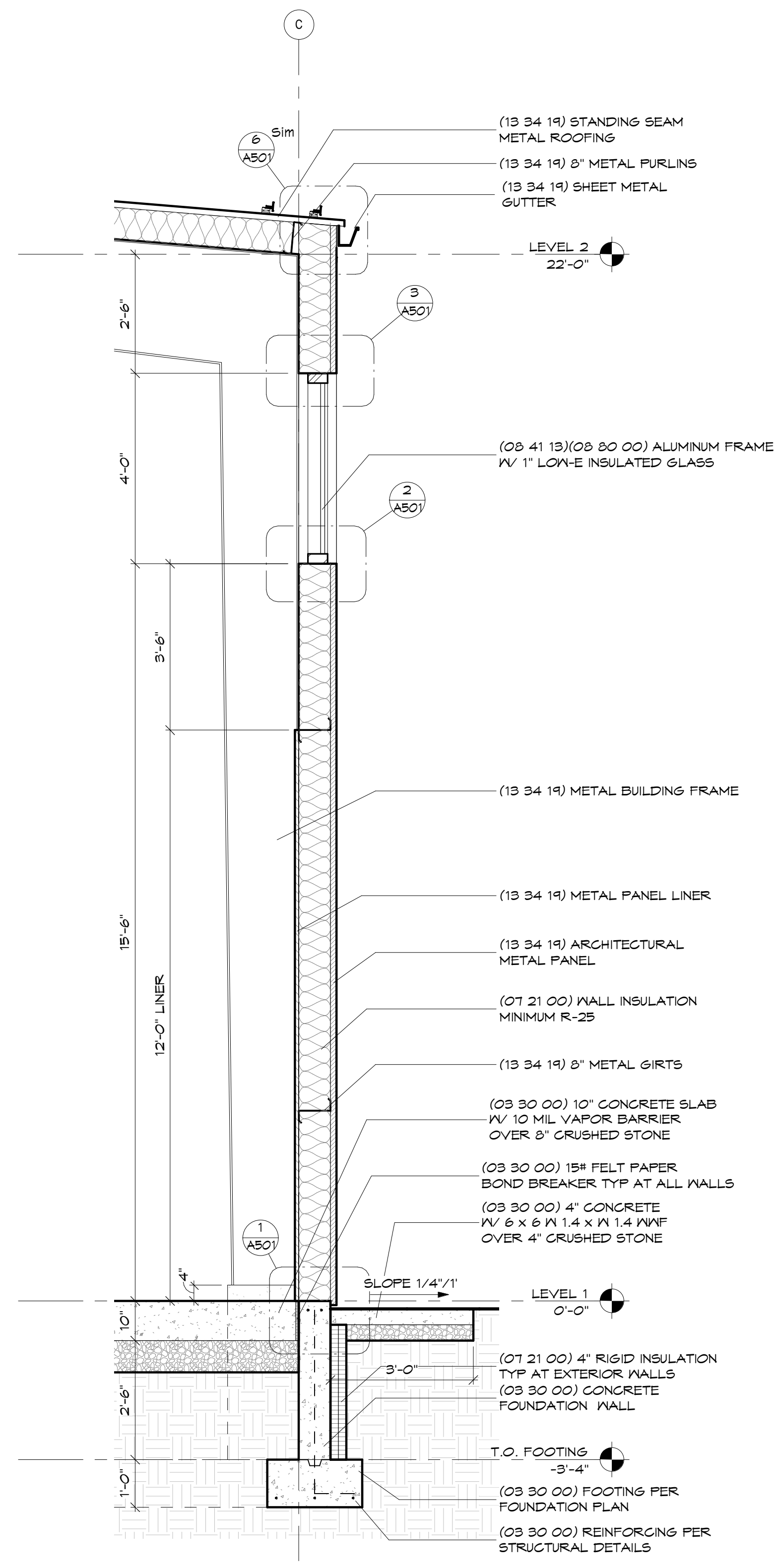
**2 West Elevation**  
3/16" = 1'-0"



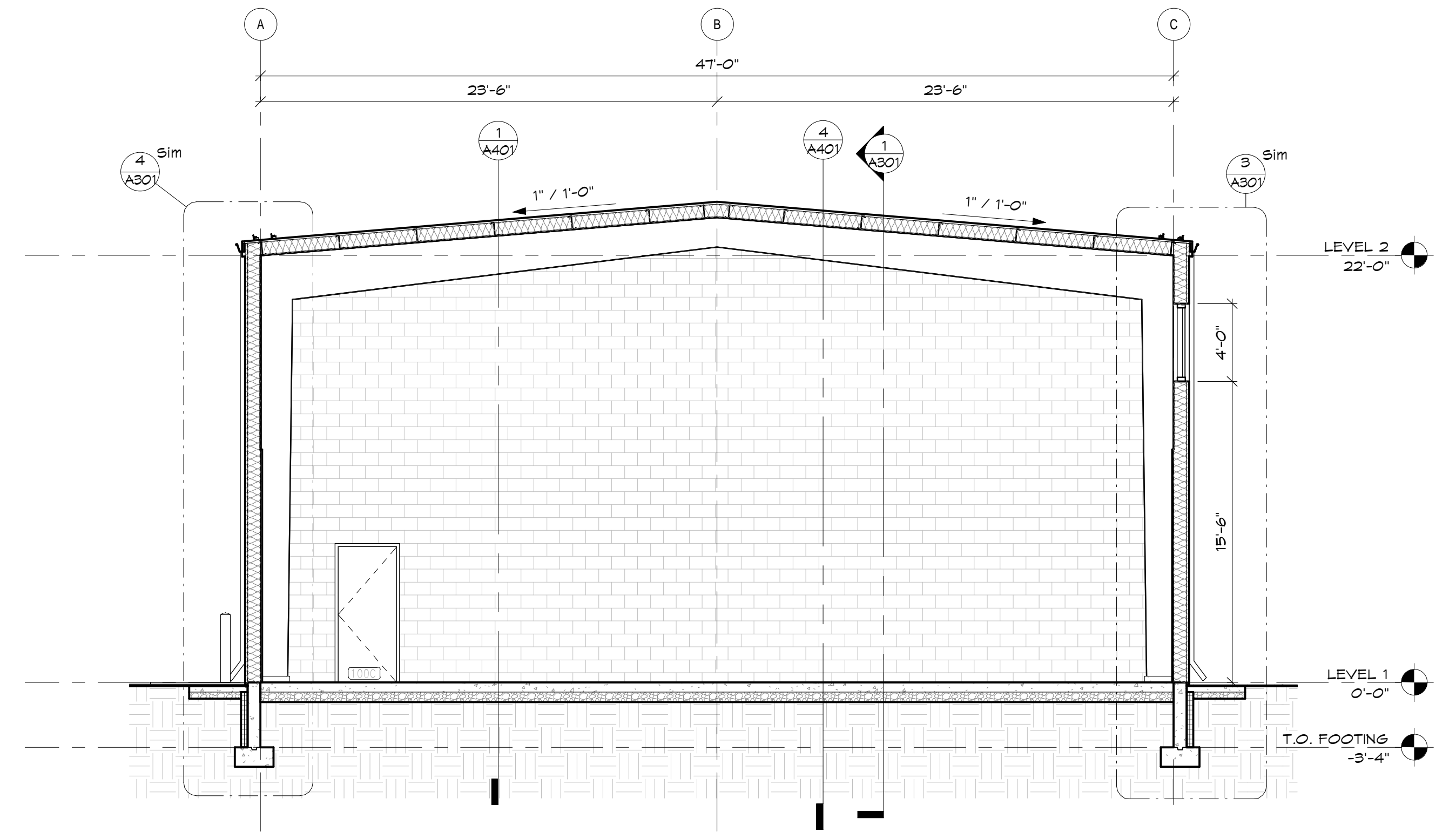
**1 North Elevation**  
3/16" = 1'-0"



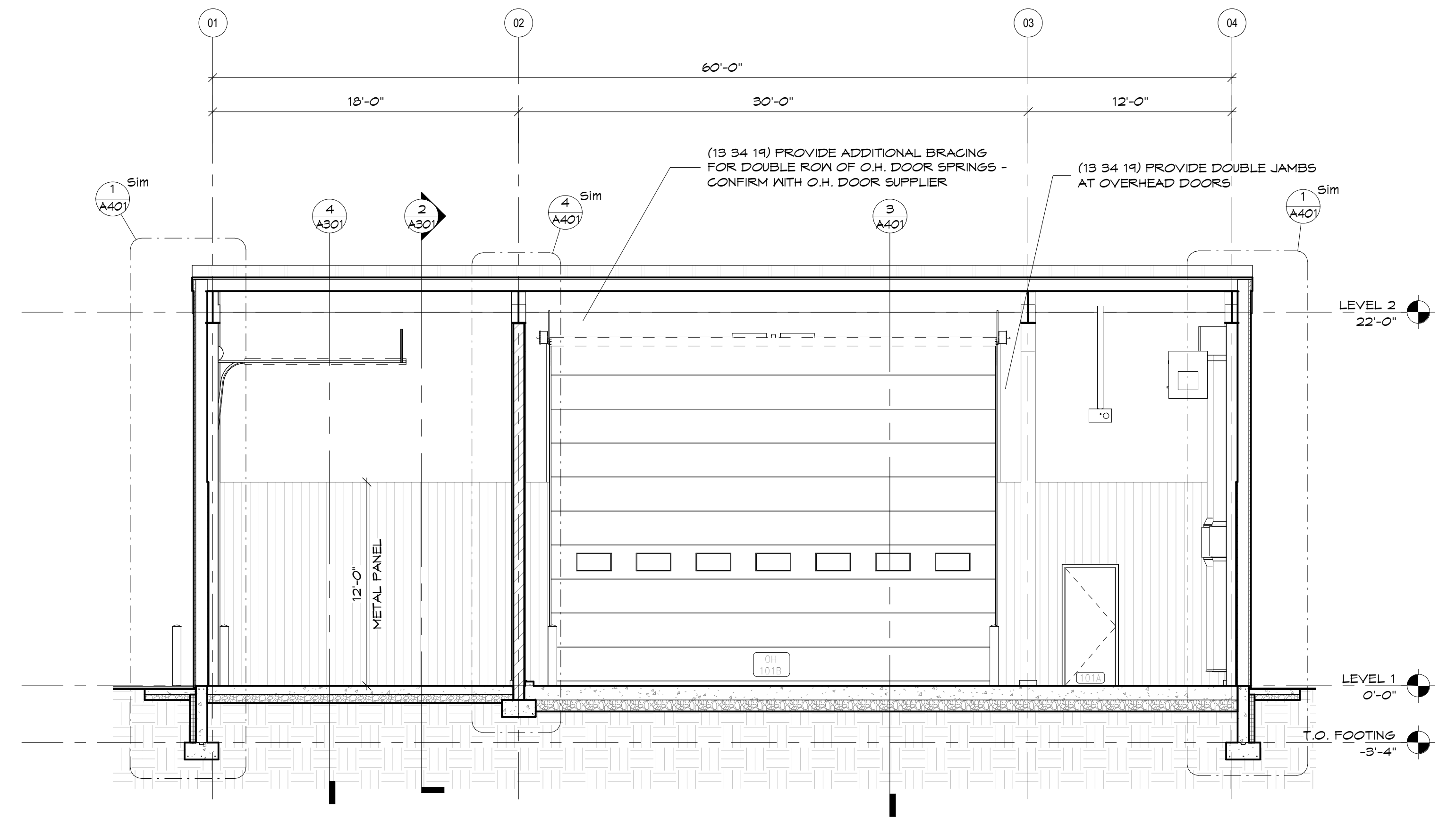
**4 Wall Section**  
1/2" = 1'-0"



**3 Wall Section**  
1/2" = 1'-0"

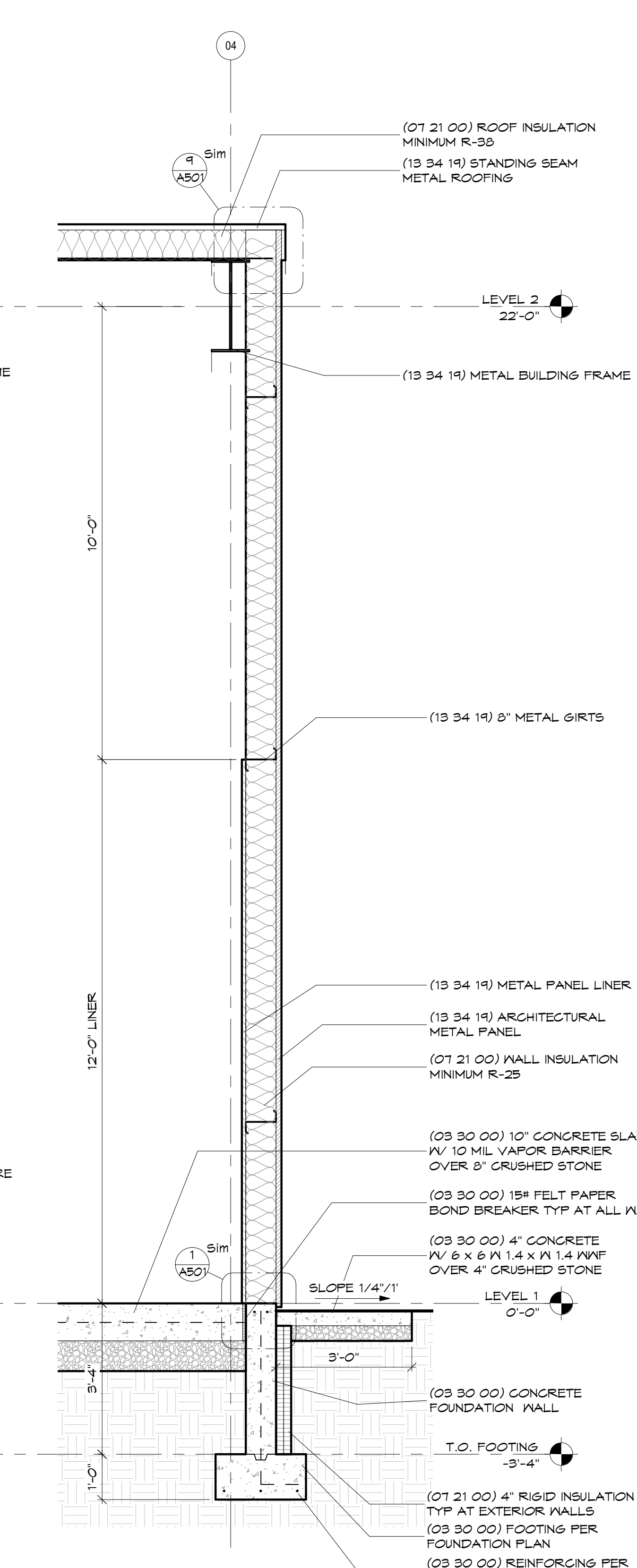
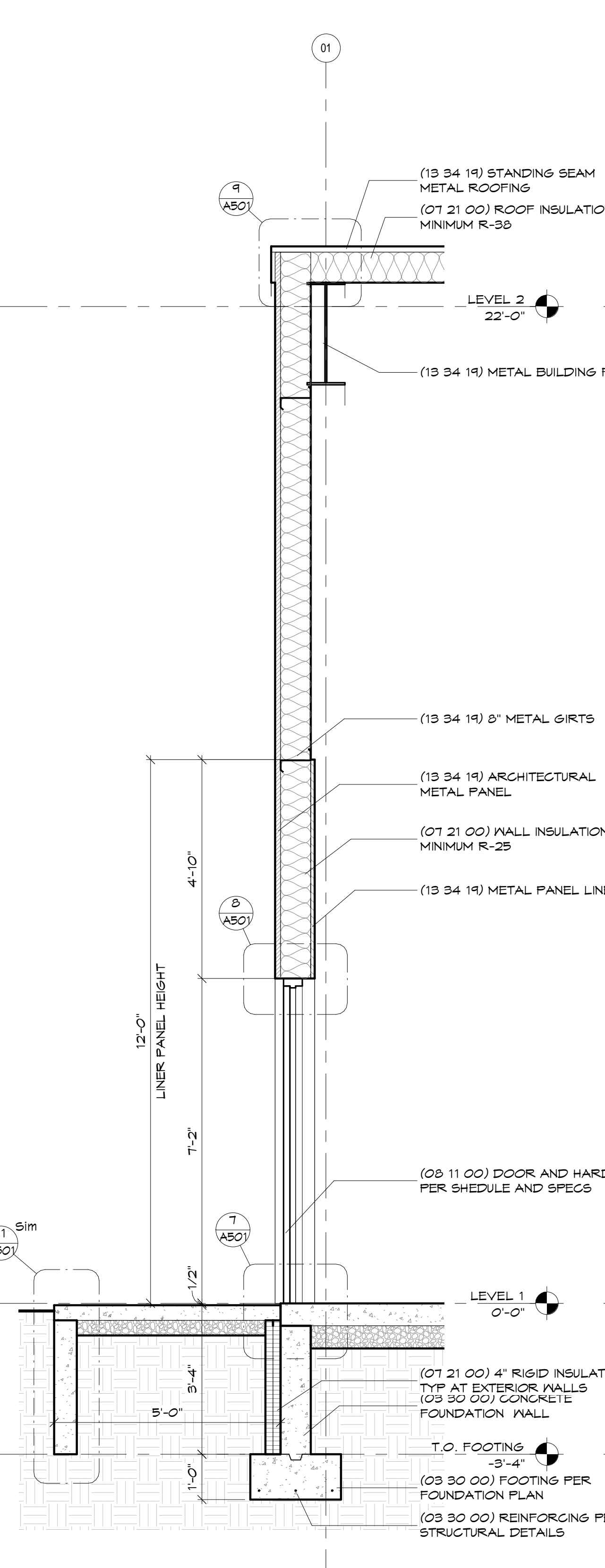
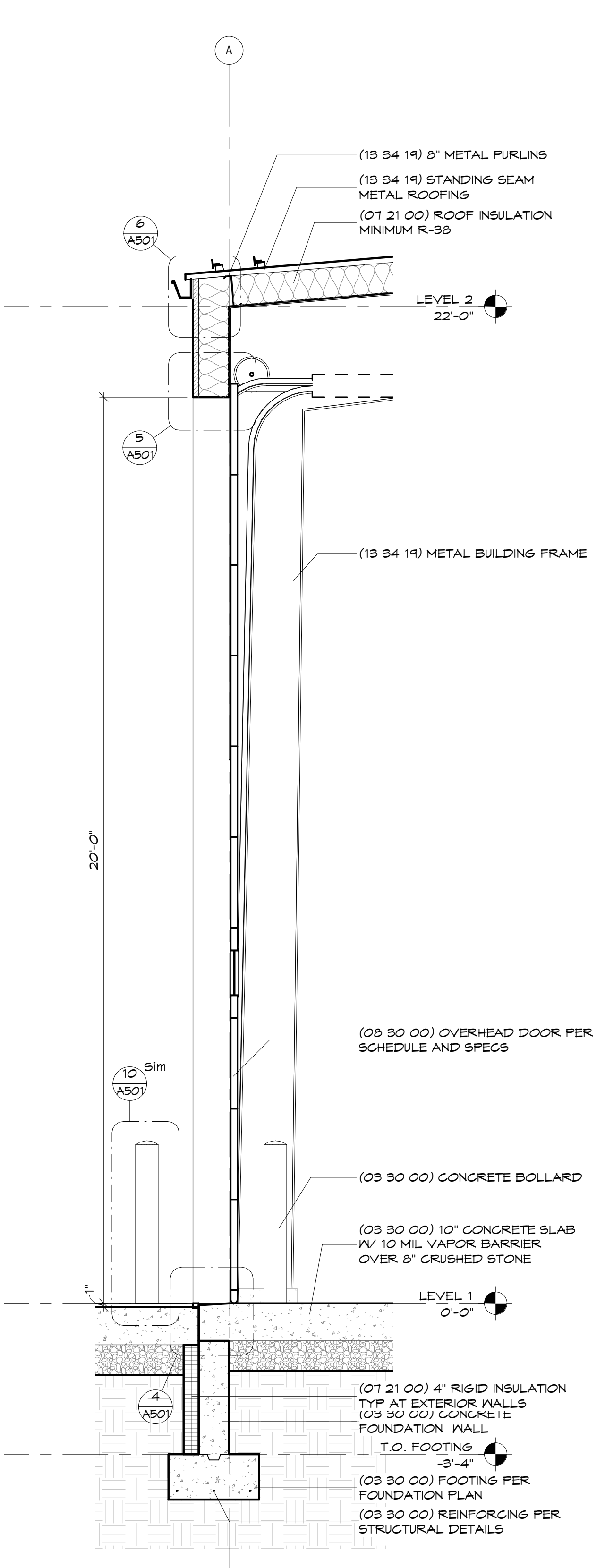
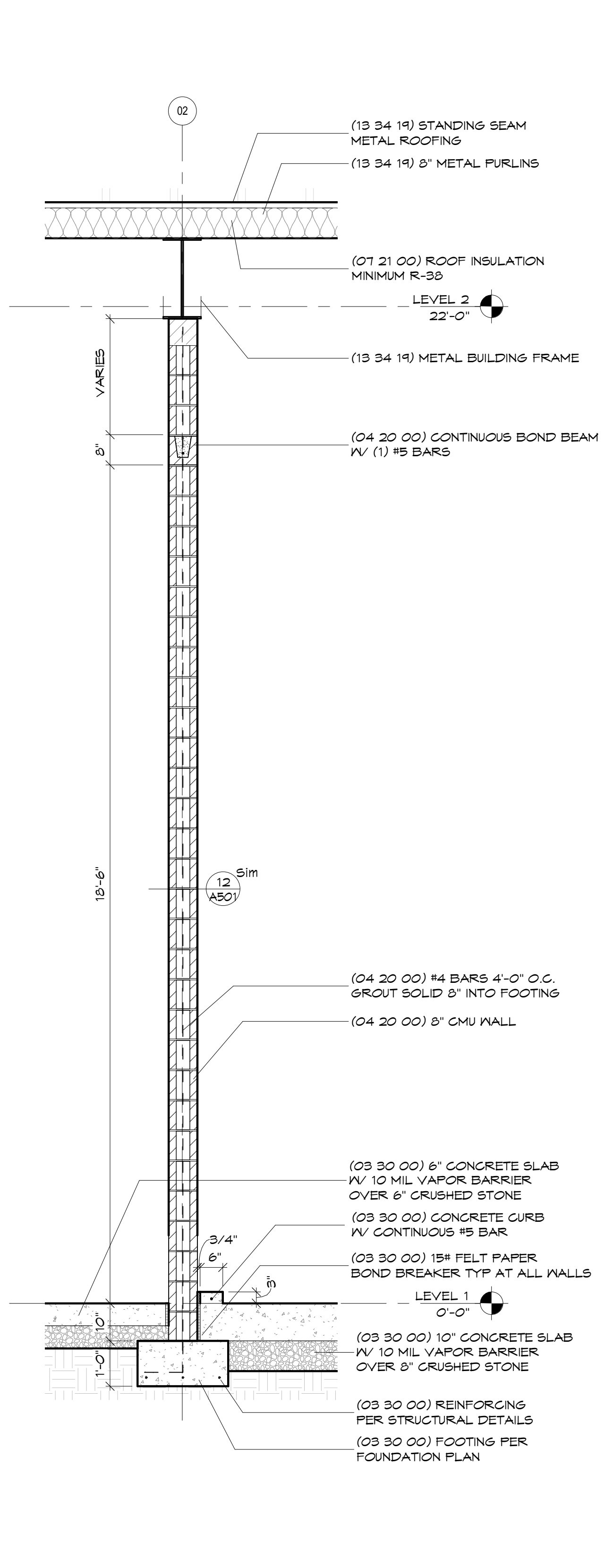
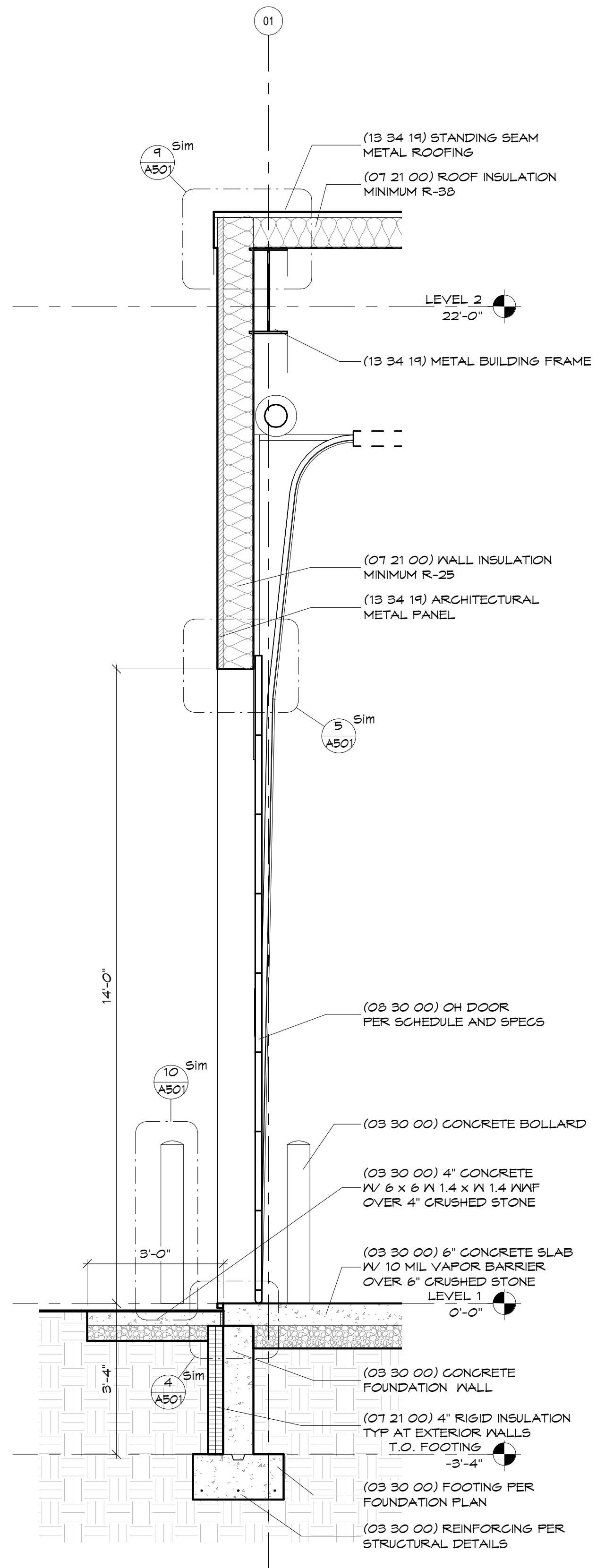


**2 North-South Building Section**  
3/16" = 1'-0"



**1 East-West Building Section**  
3/16" = 1'-0"





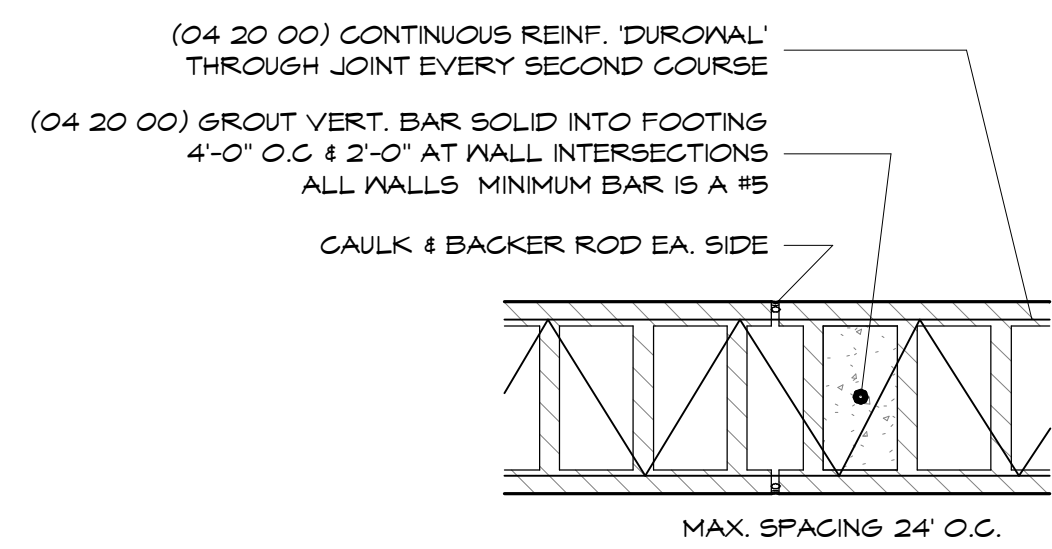
**5 Wall Section**  
1/2" = 1'-0"

**4 Wall Section**  
1/2" = 1'-0"

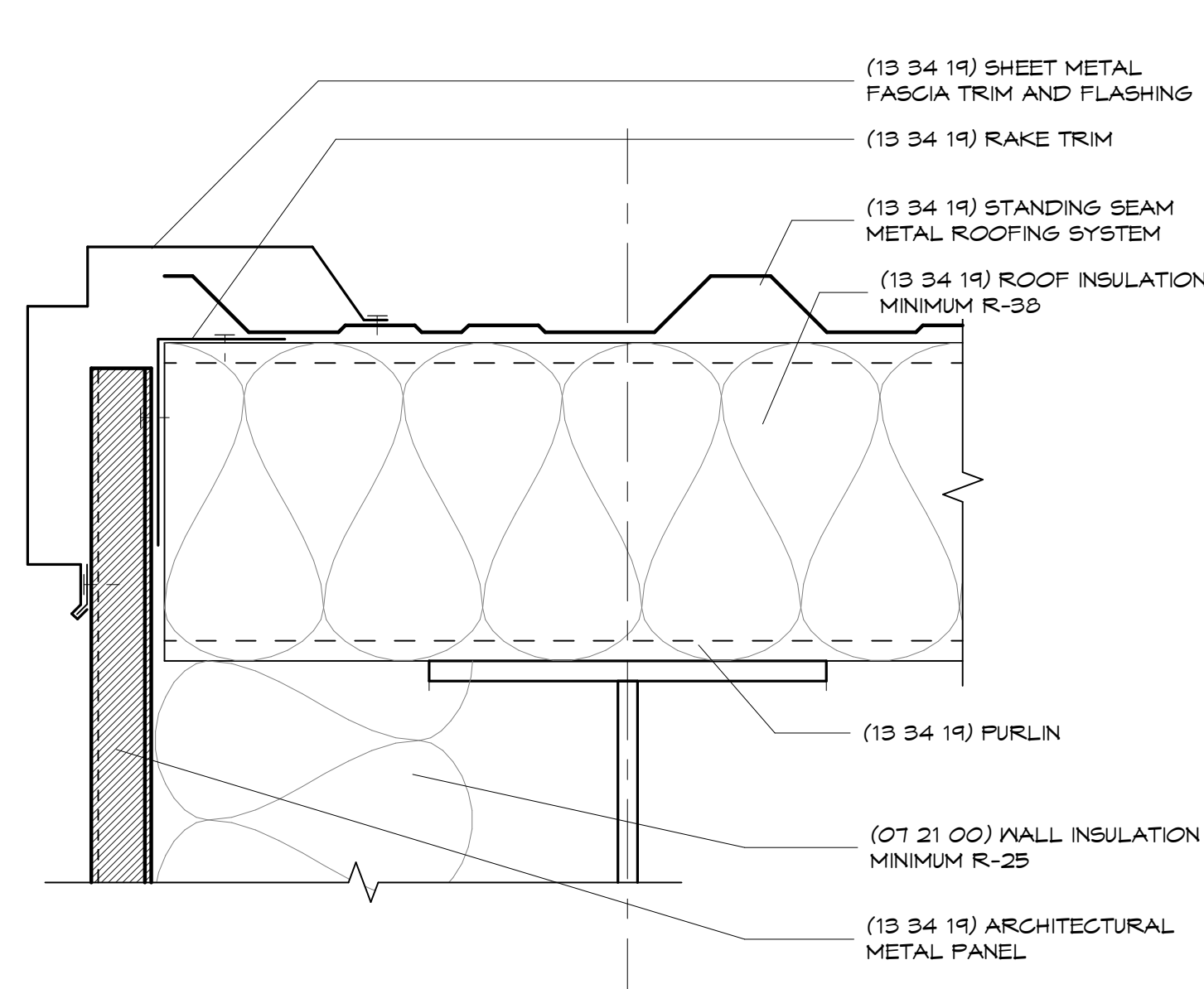
**3 Wall Section**  
1/2" = 1'-0"

**2 Wall Section**  
1/2" = 1'-0"

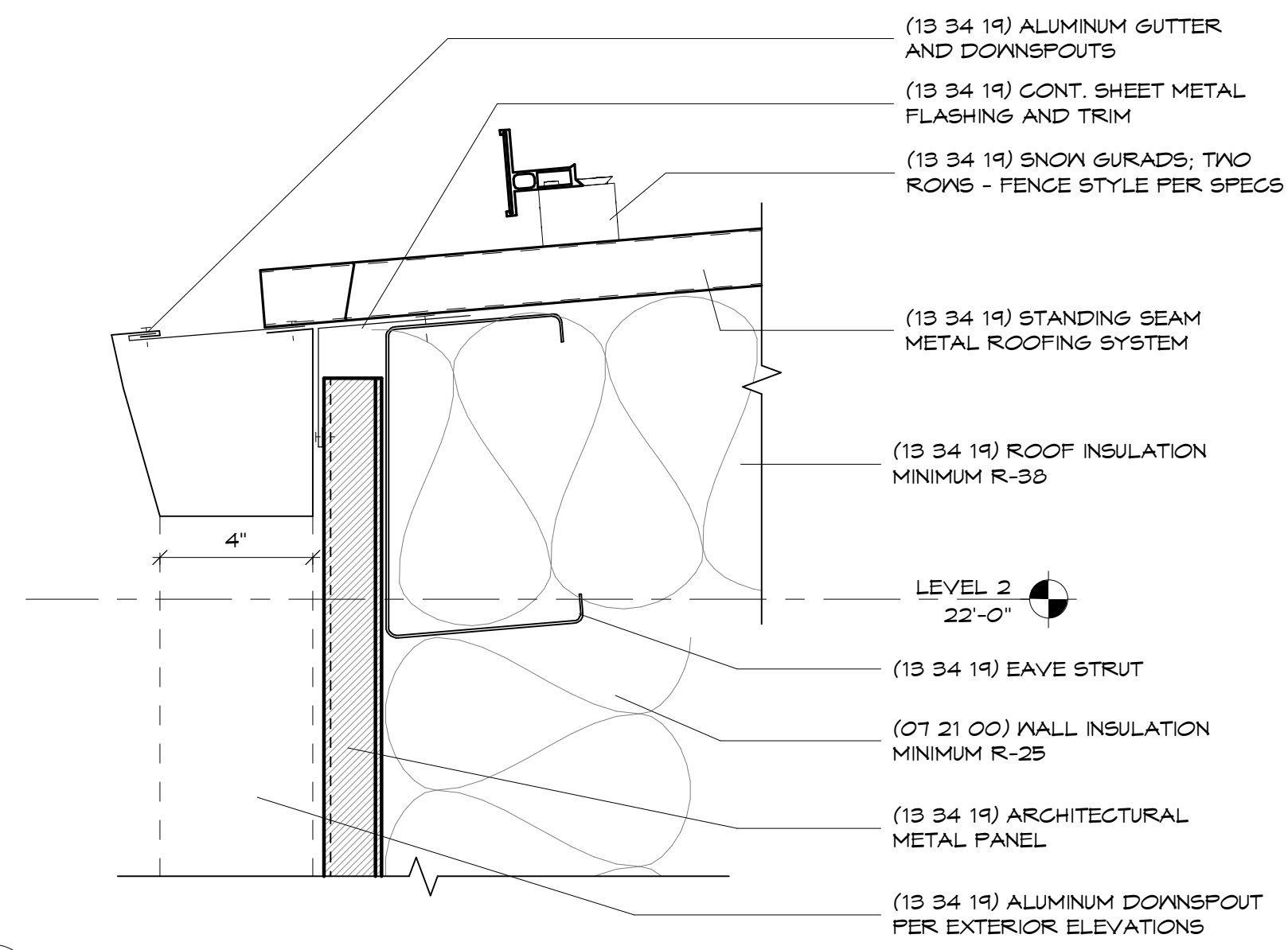
**1 Wall Section**  
1/2" = 1'-0"



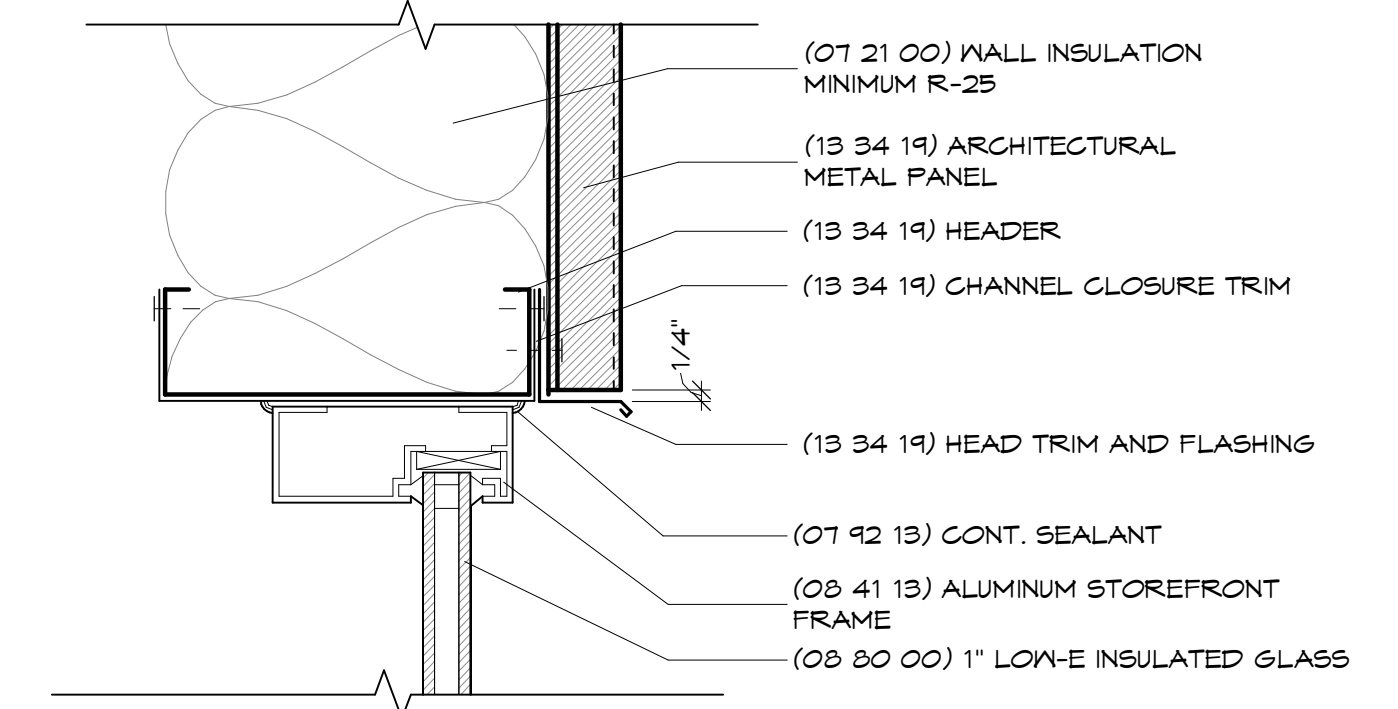
**12 Masonry Control Joint**  
 1 1/2" = 1'-0"



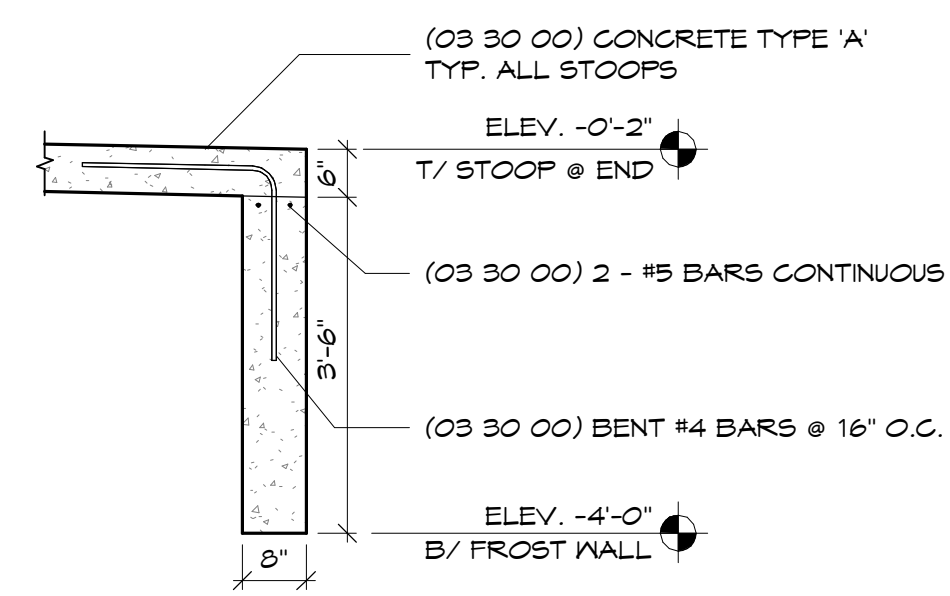
**9 Fascia**  
 3" = 1'-0"



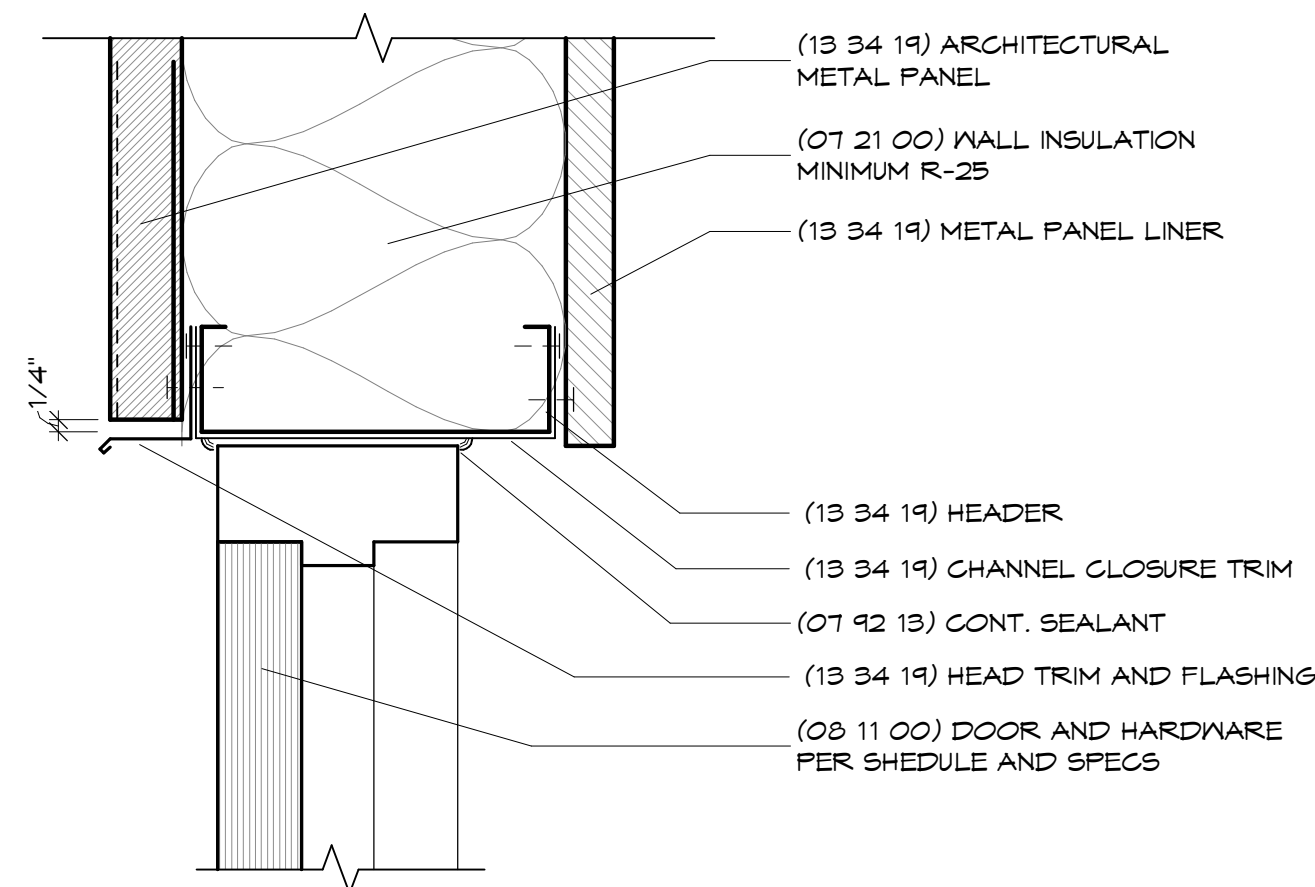
**6 Gutter**  
 3" = 1'-0"



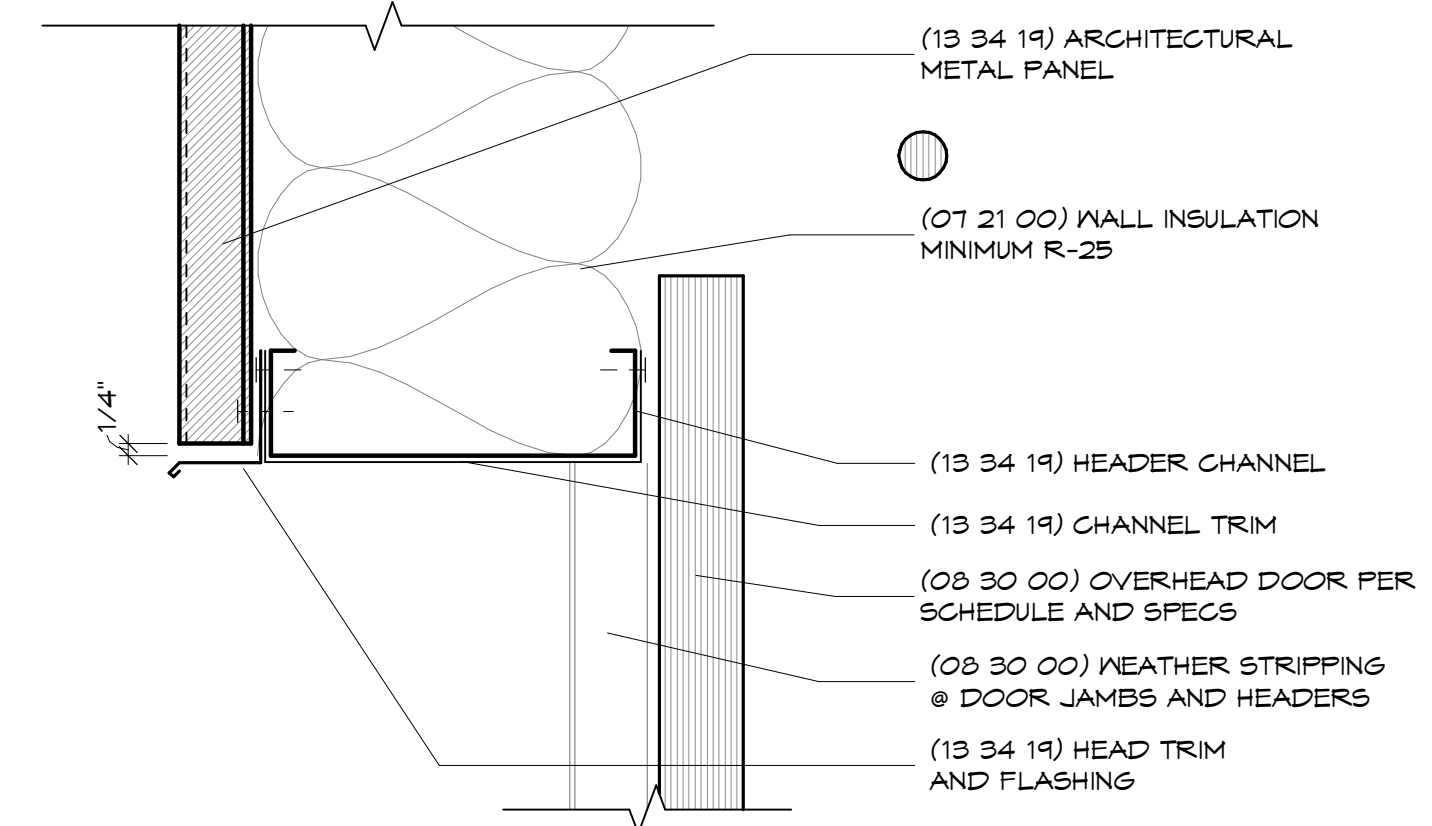
**3 Window Head**  
 3" = 1'-0"



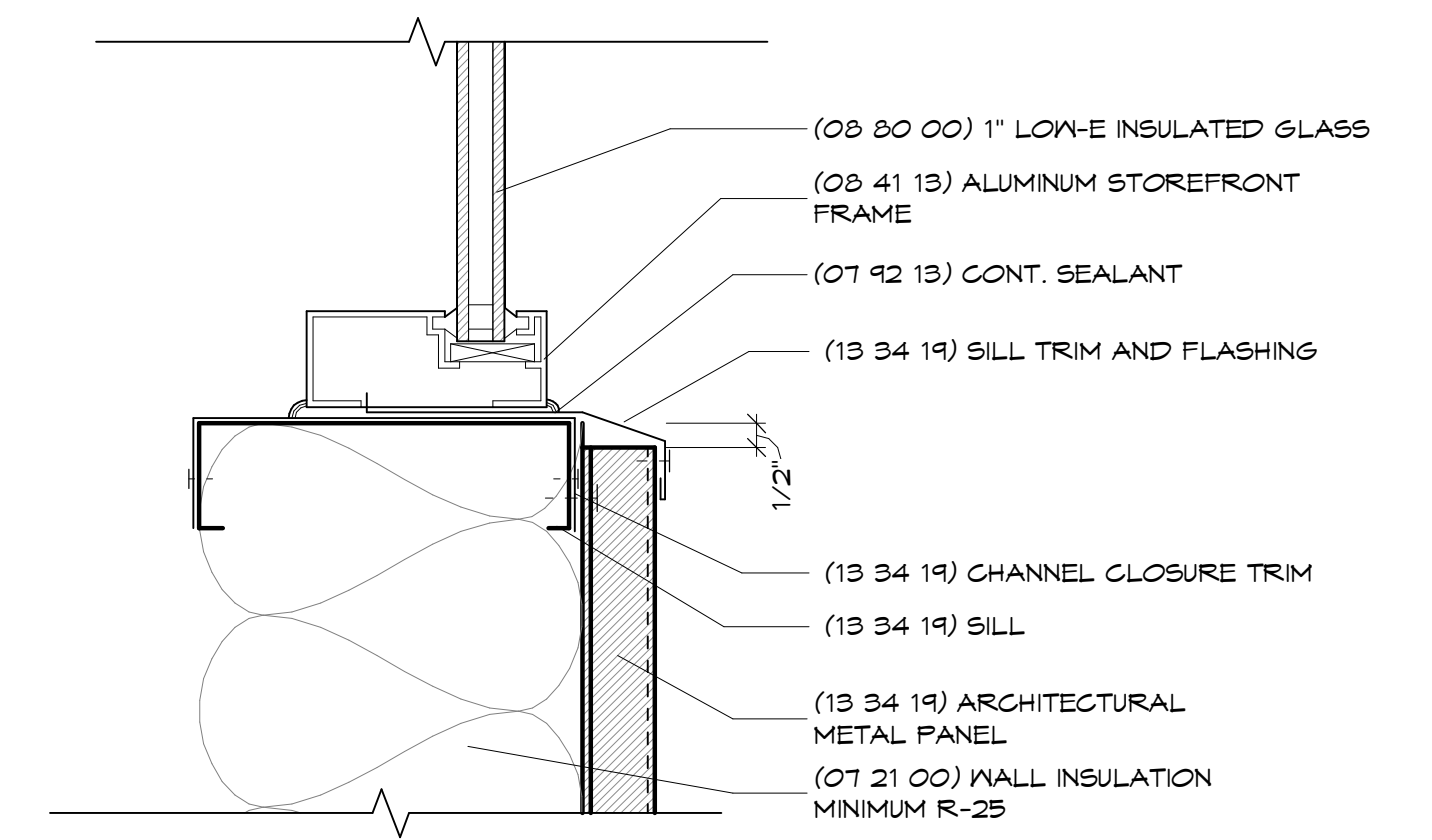
**11 Stoop Frost Wall**  
 1/2" = 1'-0"



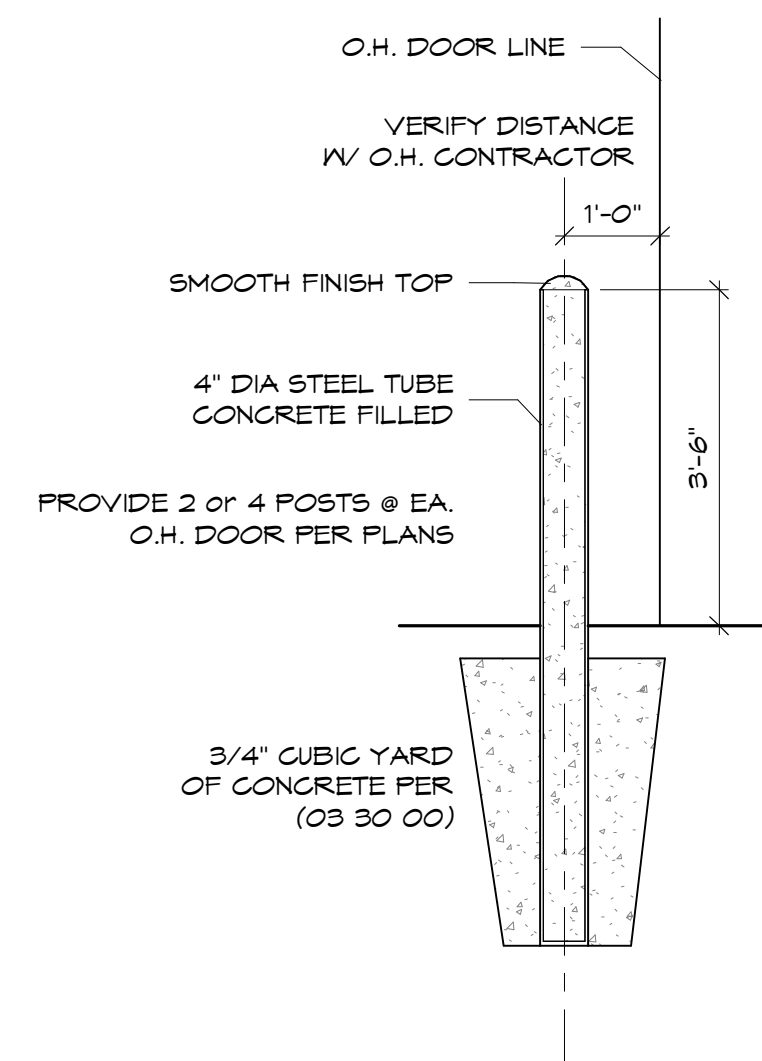
**8 Door Head**  
 3" = 1'-0"



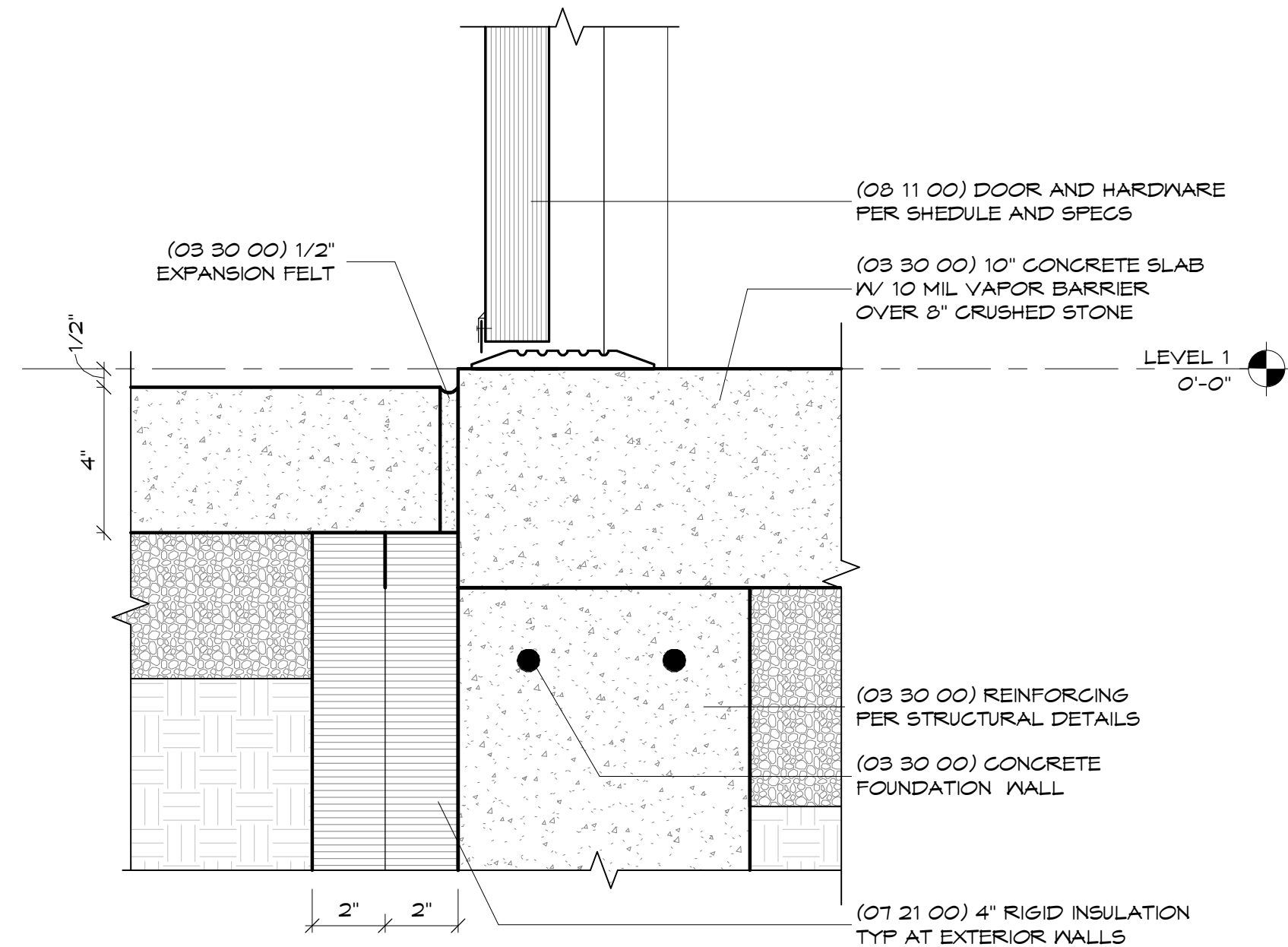
**5 OH Door Head**  
 3" = 1'-0"



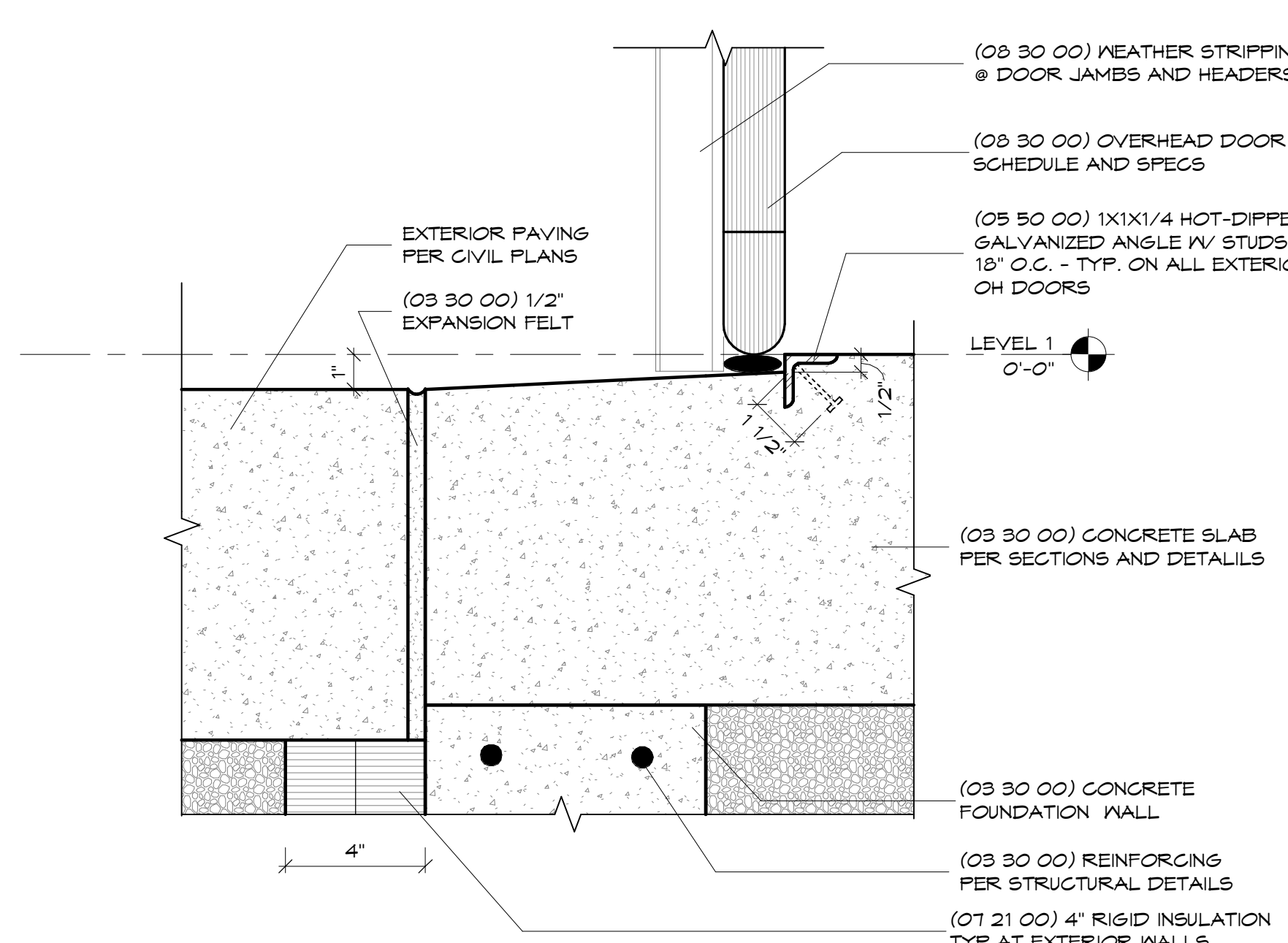
**2 Window Sill**  
 3" = 1'-0"



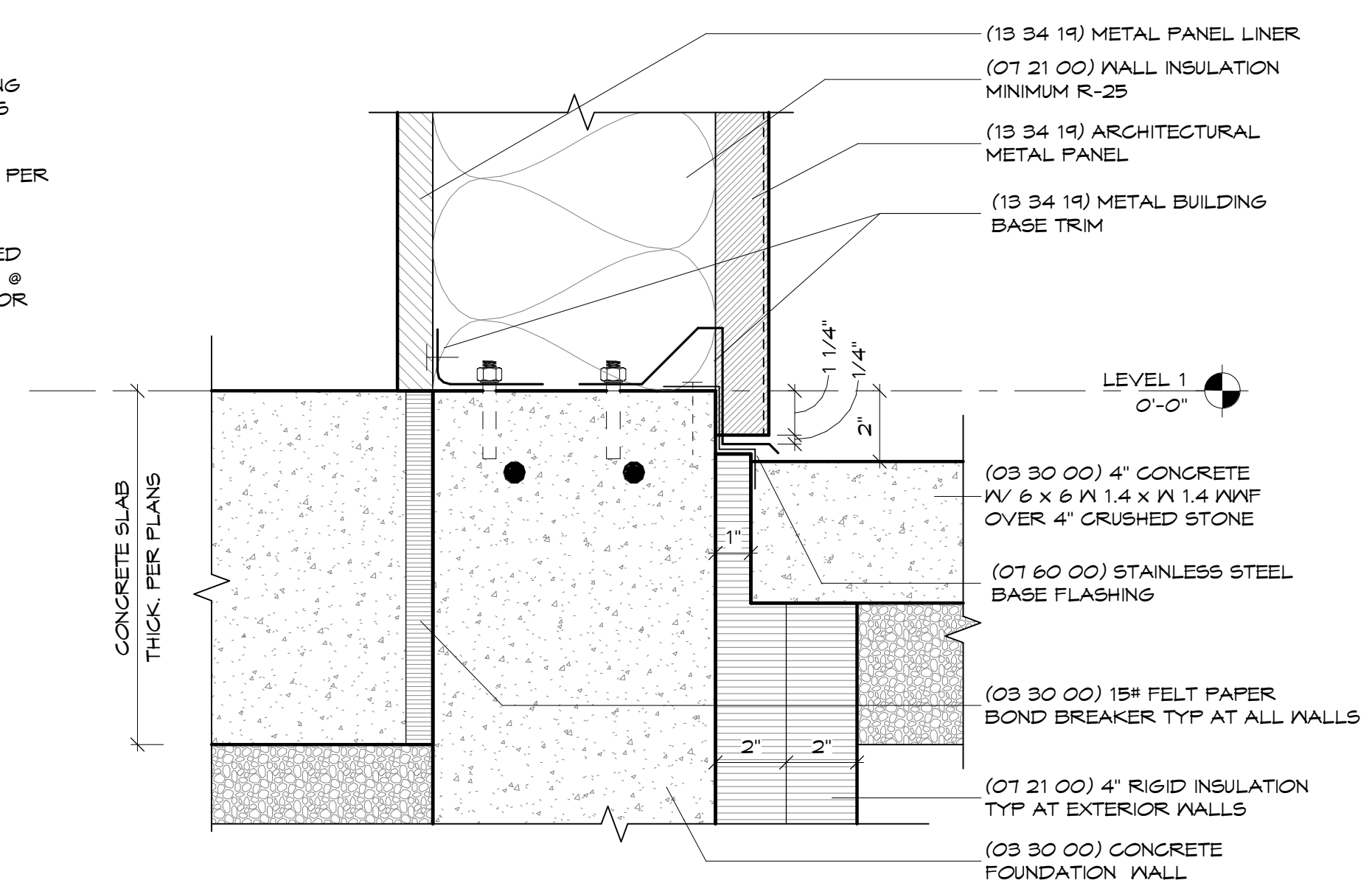
**10 Bollard**  
 1/2" = 1'-0"



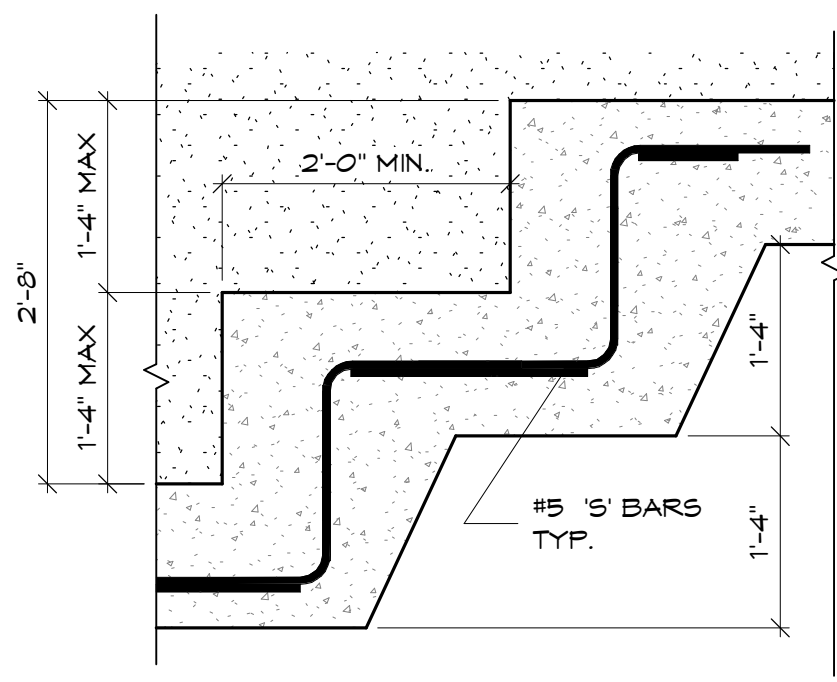
**7 Door Threshold**  
 3" = 1'-0"



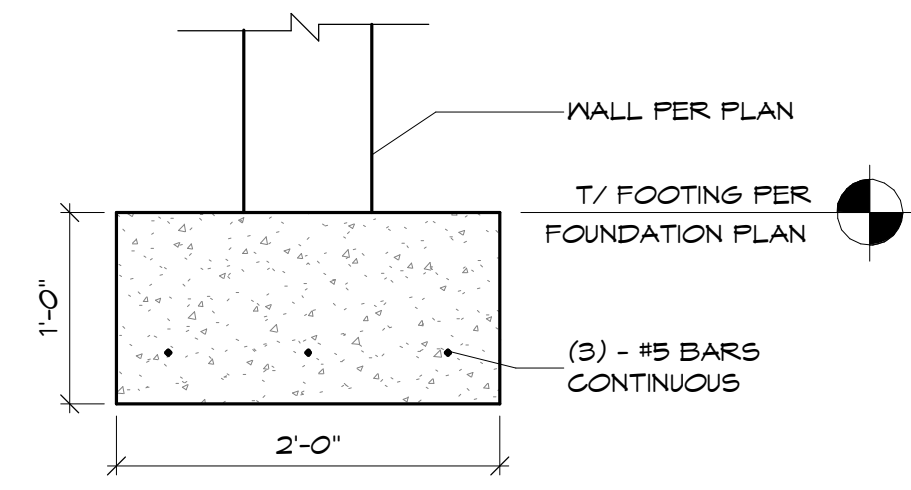
**4 OH Door Threshold**  
 3" = 1'-0"



**1 Wall Base**  
 3" = 1'-0"



**12 Footing Step - Typ.**  
3/4" = 1'-0"

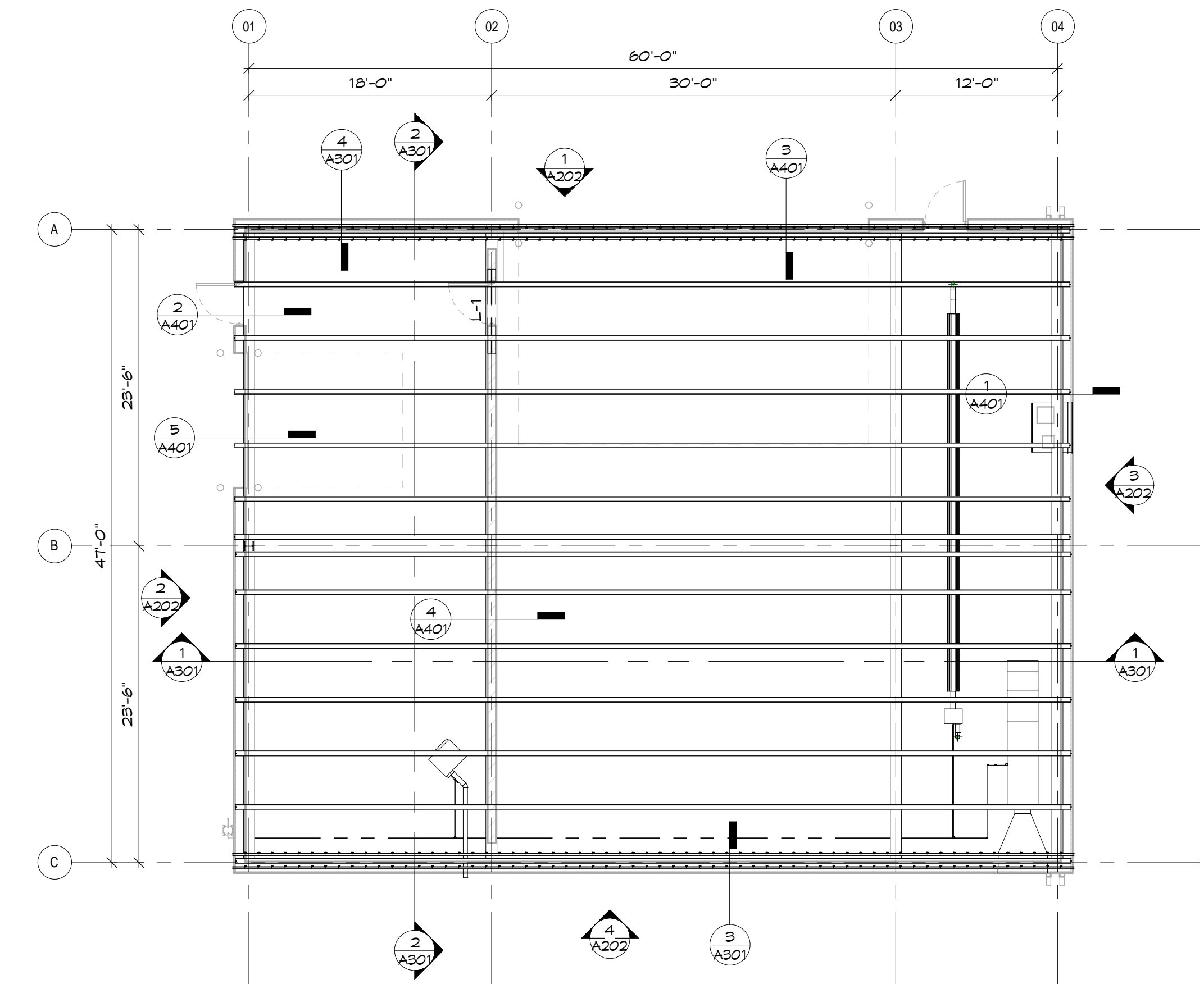


**11 Typ. Strip Footing**  
1" = 1'-0"

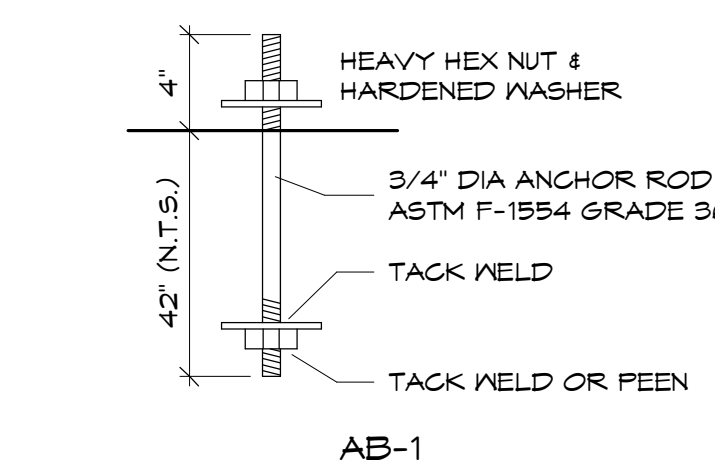
WIND LOADS	
<b>WIND LOAD DATA</b>	
ULTIMATE WIND SPEED	115 MPH
IMPORTANCE FACTOR	1.00
OCCUPANCY CATEGORY	II
EXPOSURE CATEGORY	C
ENCLOSURE CLASSIFICATION	PARTIALLY ENCLOSED
<b>MAIN WIND FORCE RESISTING SYSTEM</b>	
INTERIOR ZONE - WALL:	11.2 PSF
INTERIOR ZONE - ROOF:	-5.2 PSF
END ZONE - WALL:	16.8 PSF
END ZONE - ROOF:	-8.7 PSF
END ZONE:	9.8 FEET

COMPONENTS AND CLADDING			
<b>ROOF SURFACE PRESSURE (PSF)</b>			
AREA	10 S.F.	50 S.F.	100 S.F.
NEGATIVE ZONE 1	-26.7	-26.7	-26.7
NEGATIVE ZONE 2	-29.9	-28.8	-28.3
NEGATIVE ZONE 3	-38.0	-31.2	-28.3
POSITIVE ZONES	13.8	12.6	12.1
<b>WALL SURFACE PRESSURE (PSF)</b>			
AREA	10 S.F.	100 S.F.	500 S.F.
NEGATIVE ZONE 4	-24.9	-22.3	-20.6
NEGATIVE ZONE 5	-29.3	-24.1	-20.6
POSITIVE ZONES	23.5	20.9	19.1

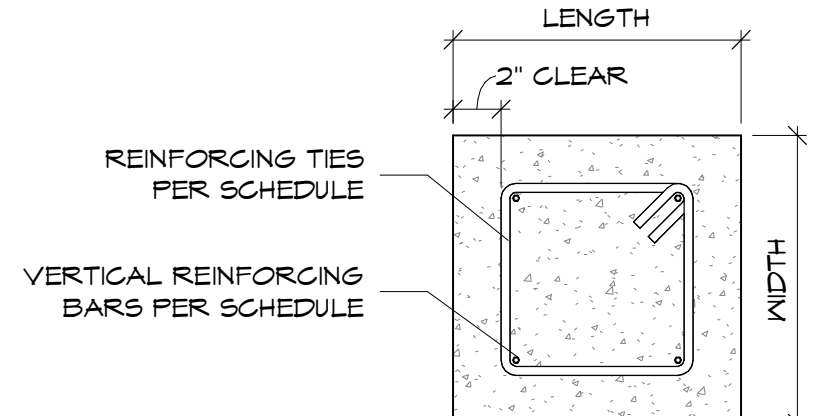
ROOF LOADS	
SNOW LOAD	26 P.S.F.
DEAD LOAD	
METAL ROOF	2.0
INSULATION	2.0
MECHANICAL	3.0
MISCELLANEOUS	3.0
	10.0
DESIGN LOAD	36 P.S.F.



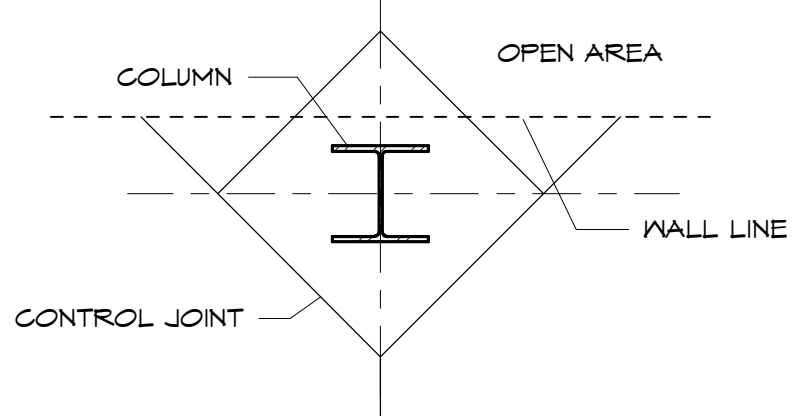
**2 Roof Framing Plan**  
1/8" = 1'-0"



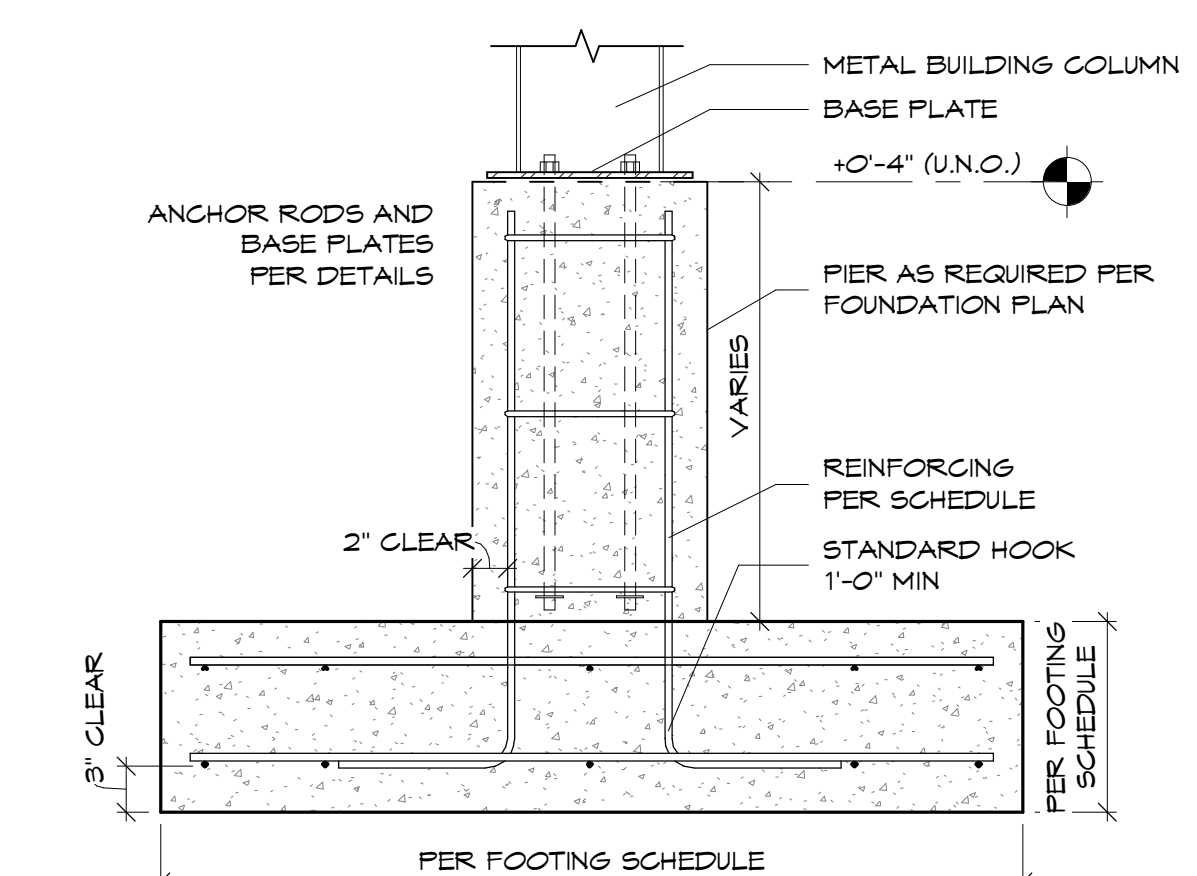
**10 Anchor Rods**  
1 1/2" = 1'-0"



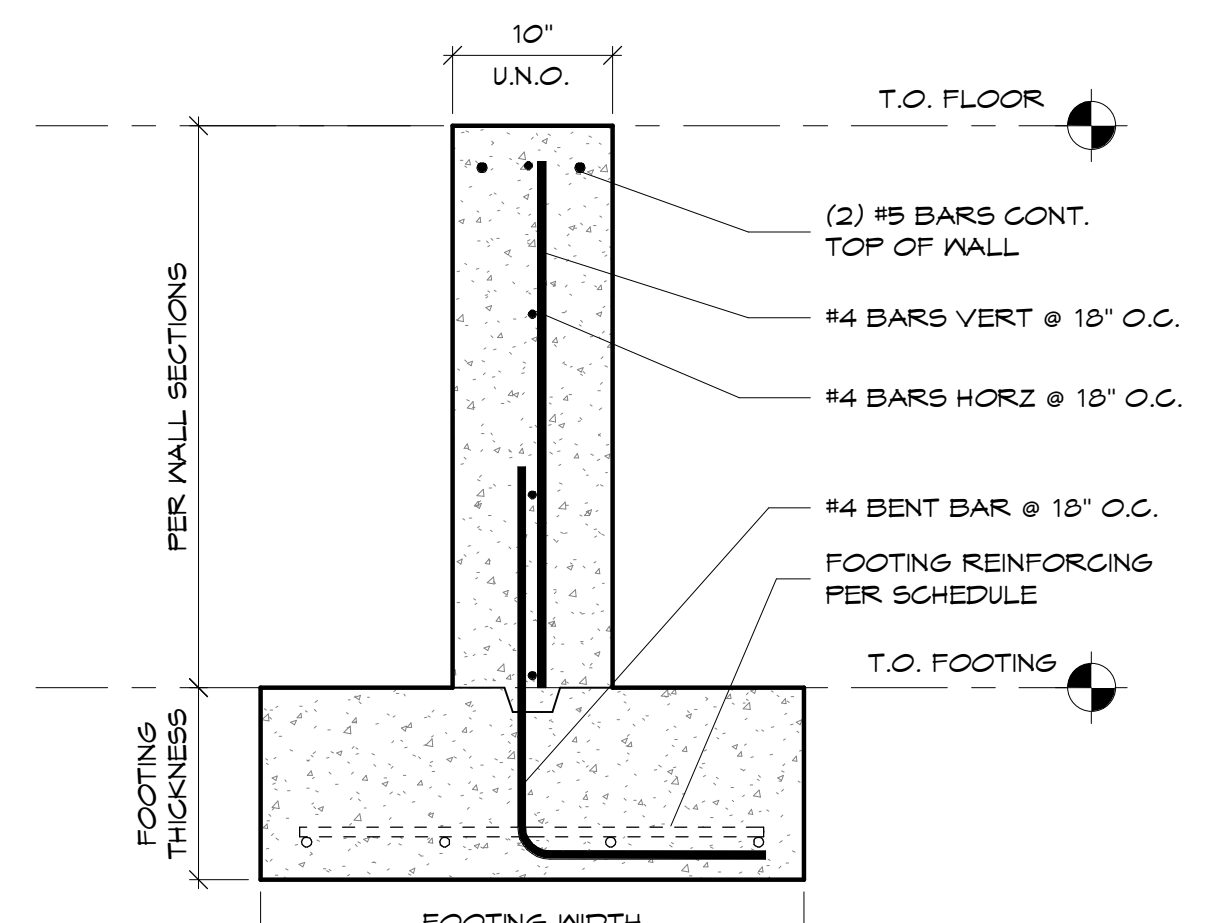
**9 Pier Reinforcing Detail**  
1 1/2" = 1'-0"



**8 Column Control Joint**  
1/2" = 1'-0"



**7 Typ. Pad Footing**  
1" = 1'-0"



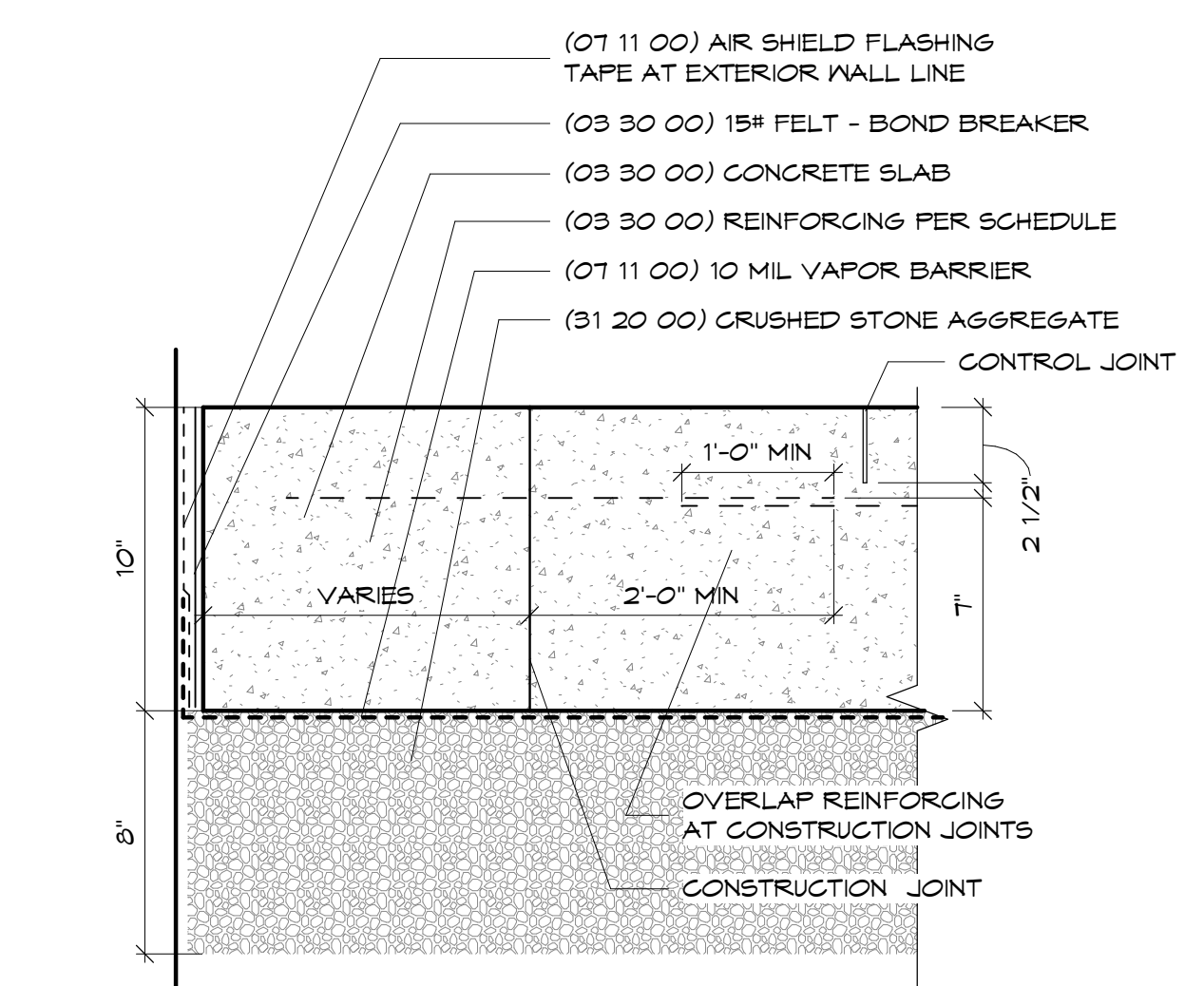
**6 Typ. Foundation Wall**  
1" = 1'-0"

LINTEL SCHEDULE		
MARK	TYPE	REINFORCING AND END BEARING
L-1	2L3-1/2X3-1/2X1/4	8" BEARING, GROUT SOLID 3 CORES

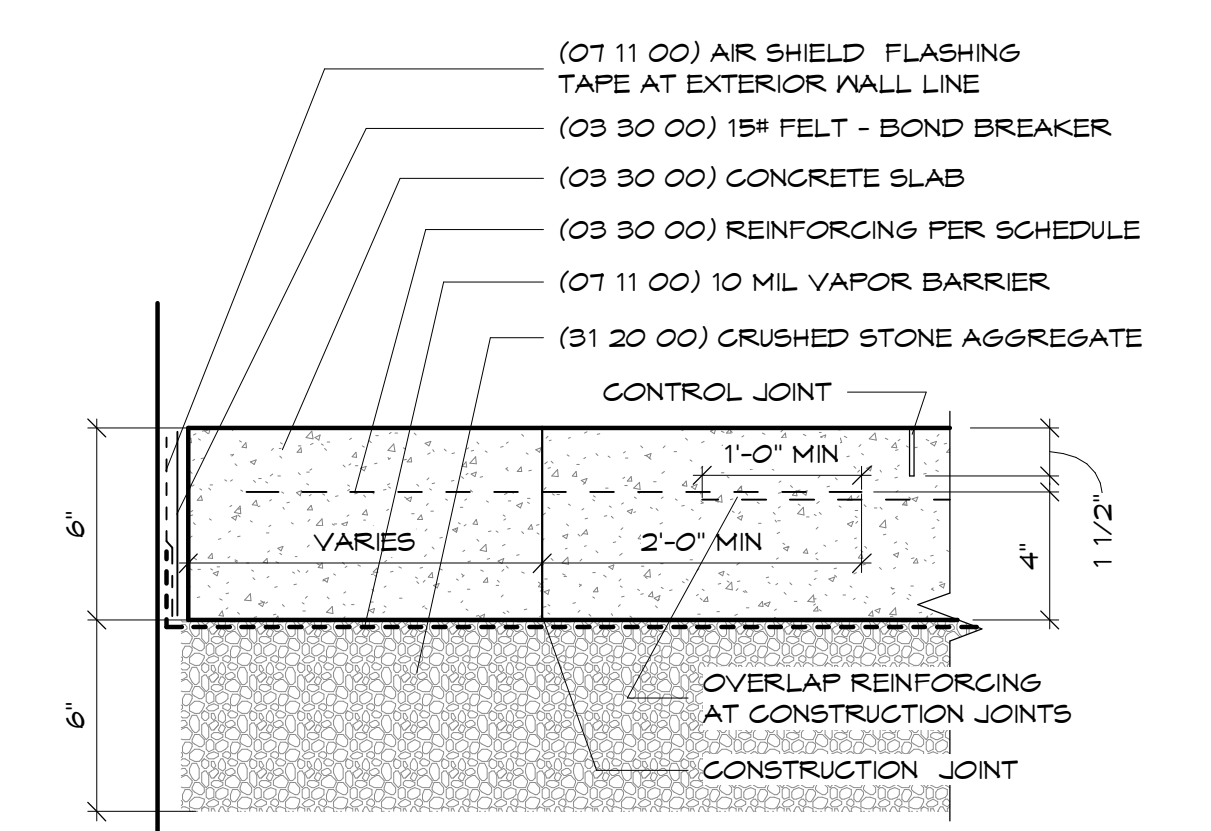
PIER SCHEDULE		
MARK	SIZE	REINFORCING
P-1	12" x 12"	(4) - #5 BARS VERTICAL; #3 TIES @ 10" O.C.
P-2	12" x 18"	(4) - #5 BARS VERTICAL; #3 TIES @ 10" O.C.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-1	3'-9" x 3'-9" x 1'-0"	(4) - #5 BARS EACH WAY, TOP AND BOTTOM
F-2	4'-6" x 4'-6" x 1'-0"	(4) - #6 BARS EACH WAY, TOP AND BOTTOM
F-3	7'-3" x 7'-3" x 1'-0"	(6) - #6 BARS EACH WAY, TOP AND BOTTOM
ST-1	24" x 12"	(3) - #5 BARS, CONTINUOUS

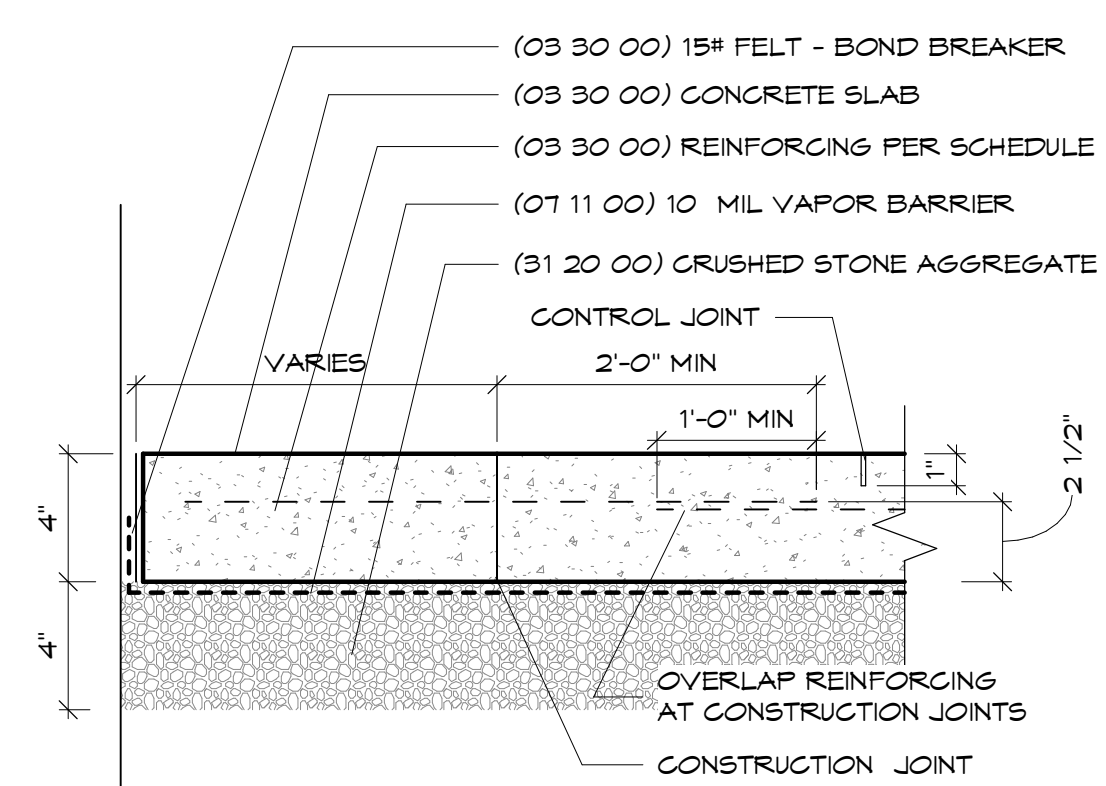
CONCRETE SLAB SCHEDULE	
<b>CONCRETE TYPE "A"</b>	
4" CONCRETE SLAB - 6' x 6' M 1.4 x M 1.4 WAF	
W/ 10 MIL POLYETHYLENE VAPOR BARRIER	
OVER 4" COMPACTED CRUSHED STONE	
<b>CONCRETE TYPE "B"</b>	
6" CONCRETE SLAB - 6' x 6' M 2.9 x M 2.9 WAF	
10 MIL POLYETHYLENE VAPOR BARRIER	
6" COMPACTED CRUSHED STONE	
<b>CONCRETE TYPE "C"</b>	
10" CONCRETE	
#6 EPOXY COATED REIN. @ 18" O.C. E.W.	
10 MIL POLYETHYLENE VAPOR BARRIER	
8" COMPACTED LIMESTONE	
#5 EPOXY COATED BARS REQ @ EXPANSION JOINTS	
OR END OF CONSTRUCTION JOINTS 16" O.C. 2'-0" LONG	



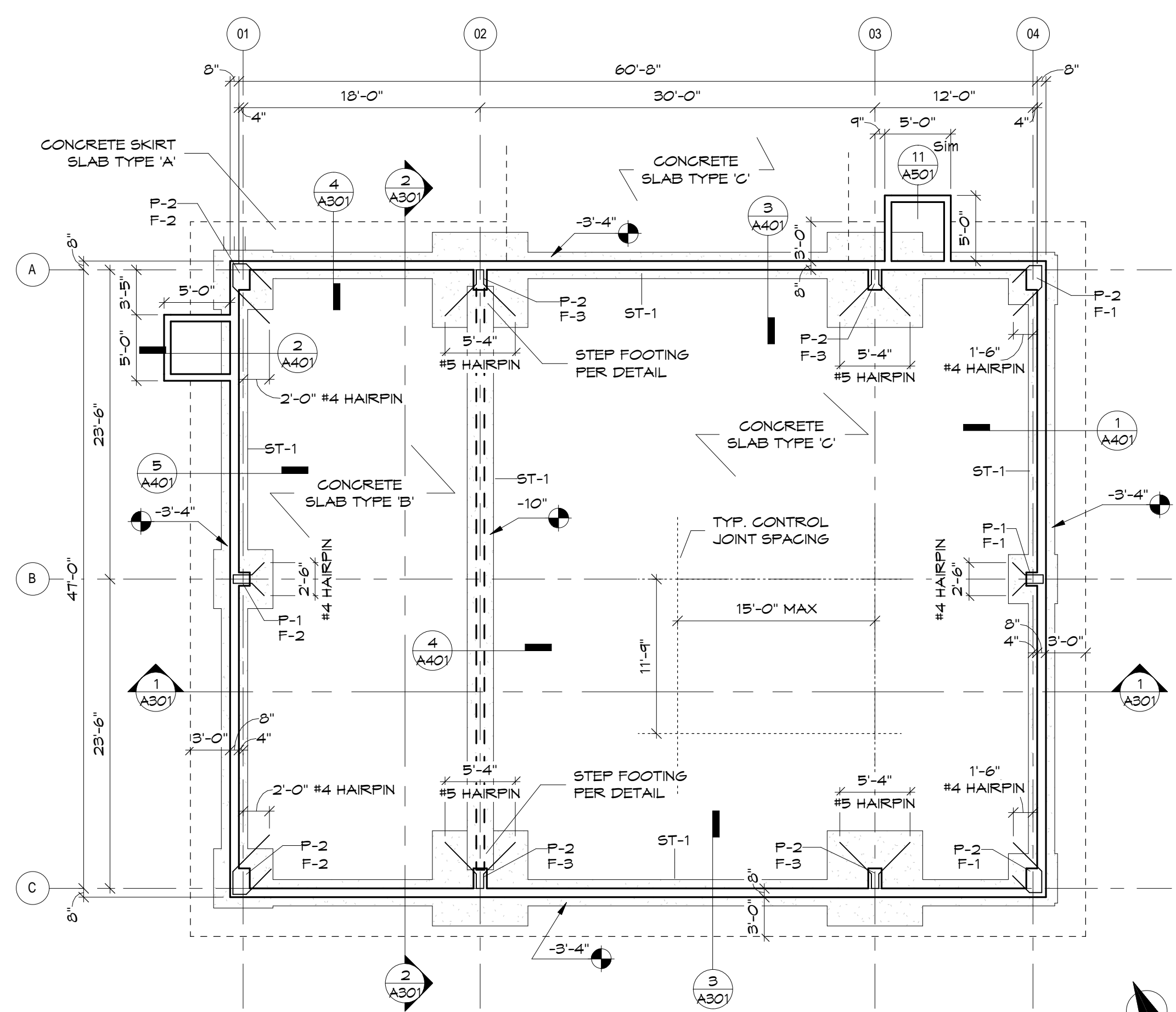
**5 Concrete Slab - Type C**  
2" = 1'-0"



**4 Concrete Slab - Type B**  
2" = 1'-0"



**3 Concrete Slab - Type A**  
2" = 1'-0"



**1 Foundation Plan**  
1/8" = 1'-0"

INLINE EXHAUST FAN SCHEDULE														
Mark	SERVES	AIRFLOW	TSP	MOTOR			ELECTRICAL				Model	MFG	WEIGHT	NOTES
				HP	BHP	RPM	V	PH	HZ	SONES				
IEF-1	SHOP MIN	125 CFM	0.50 in-wg	0.25 hp	0.07 hp	1725	115 V	1	60 Hz	10	SQ-97-VG	Greenheck	50.00 lb	1,2,3,4
IEF-2	SHOP ALARM	1400 CFM	0.56 in-wg	0.75 hp	0.28 hp	1725	115 V	1	60 Hz	9	SQ-130-A	Greenheck	72.00 lb	1,2,3,4

- NOTES:  
 1. PROVIDE DISCONNECT  
 2. PROVIDE BACKDRAFT DAMPER  
 3. PROVIDE SPEED CONTROLLER  
 4. PROVIDE HANGER ISOLATORS AND CANVAS CONNECTIONS ON FANS

LOUVER SCHEDULE										
TAG	TYPE	SERVES	NOMINAL CFM	FREE AIR VELOCITY	PRESSURE DROP	SIZE	MODEL	MFG	NOTES	
						WIDTH	HEIGHT			
L-1	INTAKE	SHOP	1525 CFM	600	0.05	44"	20"	ESD-635	GREENHECK	1
L-2	EXHAUST	SHOP	1525 CFM	600	0.05	44"	20"	ESD-635	GREENHECK	1

- NOTES:  
 1. STANDARD COLOR FINISH, COORDINATE COLOR WITH ARCHITECT

UNIT HEATER SCHEDULE															
TAG	SERVES	AIRFLOW	TYPE	BTU IN	BTU OUT	FAN HP	V	PH	HZ	AMPS	MOC	MODEL	MFG	WEIGHT	NOTES
UH-1	STORAGE	1345 CFM	GAS	100000 Btu	87150 Btu	0.1 hp	115 V	1	60 Hz	4 A	15 A	UDAP 100	REZNOR	100.00 lb	1,2,3

- NOTES:  
 1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT IN LOCATION SHOWN  
 2. MOUNT UNIT WITH NON-COMBUSTIBLE HANGERS  
 3. PROVIDE TOP MOUNT SUSPENSION BRACKETS

RADIANT HEAT SCHEDULE											
Mark	SERVES	BTU IN	BTU OUT	V	PH	MCA	MOC	MODEL	MFG	WEIGHT	NOTES
RH-1	SHOP	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DET3-30-100	DETROIT RADIANT	160.00 lb	1,2

- NOTES:  
 1. PROVIDE ROOF VENT CAP AND COMBUSTION AIR INTAKE THROUGH ROOF  
 2. PROVIDE 7-DAY PROGRAMMABLE TSTAT IN LOCATION SHOWN

MECH EQ STARTERS & DISCONNECTS												
TAG	SERVES	DISCONNECTS				STARTERS					NOTES	
		FURNISHED BY	INSTALLED BY	LOCATION	TYPE	FURNISHED BY	INSTALLED BY	LOCATION	TYPE			
IEF-1	SHOP MIN	ELECTRICAL	ELECTRICAL	NEAR UNIT	NEMA 1	HVAC	HVAC	NEAR UNIT	RELAY			
IEF-2	SHOP ALARM	ELECTRICAL	ELECTRICAL	NEAR UNIT	NEMA 1	HVAC	HVAC	NEAR UNIT	RELAY			
MUA-1	SUSPENDED	HVAC	HVAC	ON UNIT	NEMA 1	HVAC	HVAC	IN SPACE	CONTROL PANEL			
UH-1	STORAGE	ELECTRICAL	ELECTRICAL	NEAR UNIT	NEMA 1	HVAC	HVAC	IN SPACE	TSTAT			

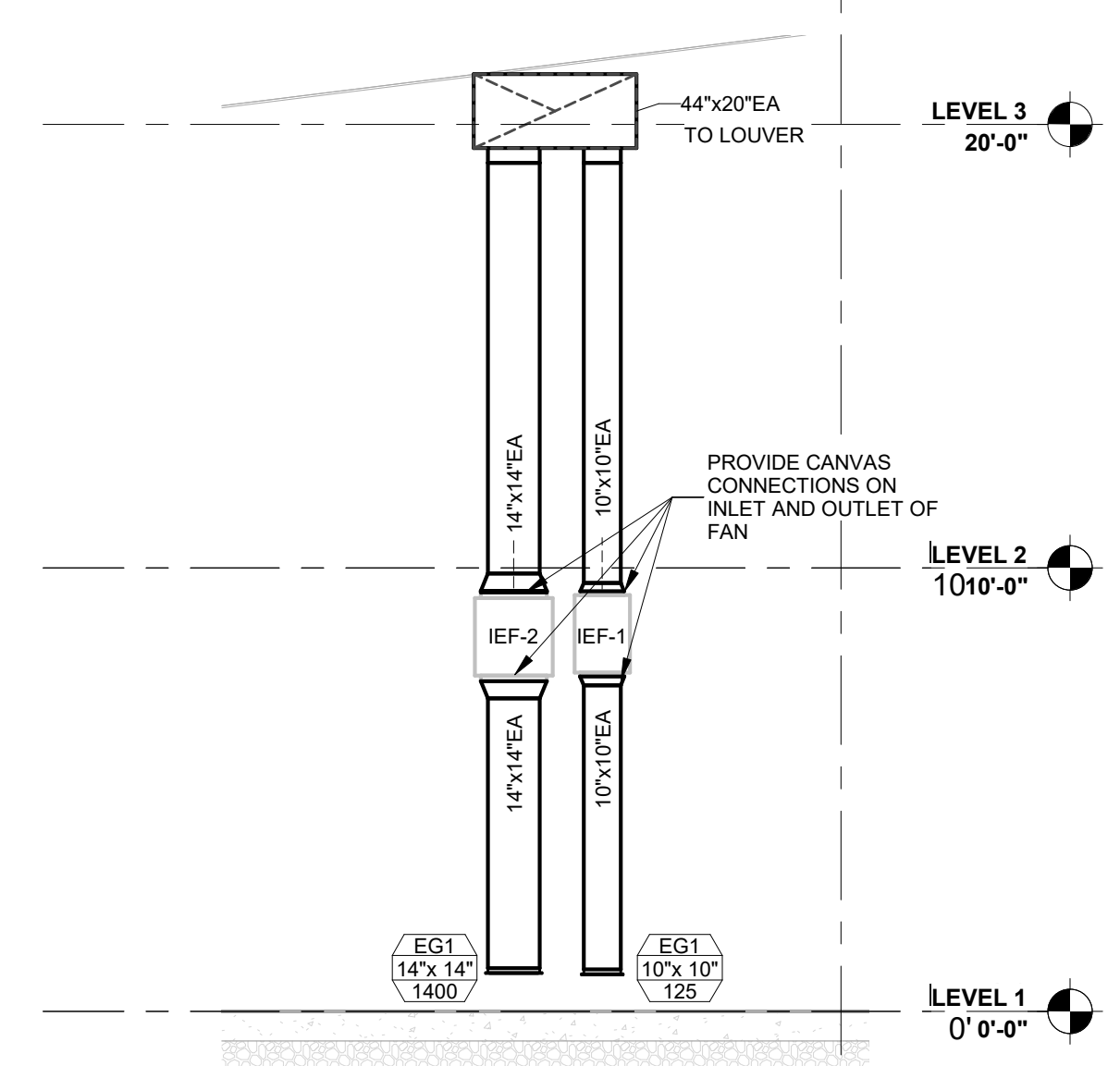
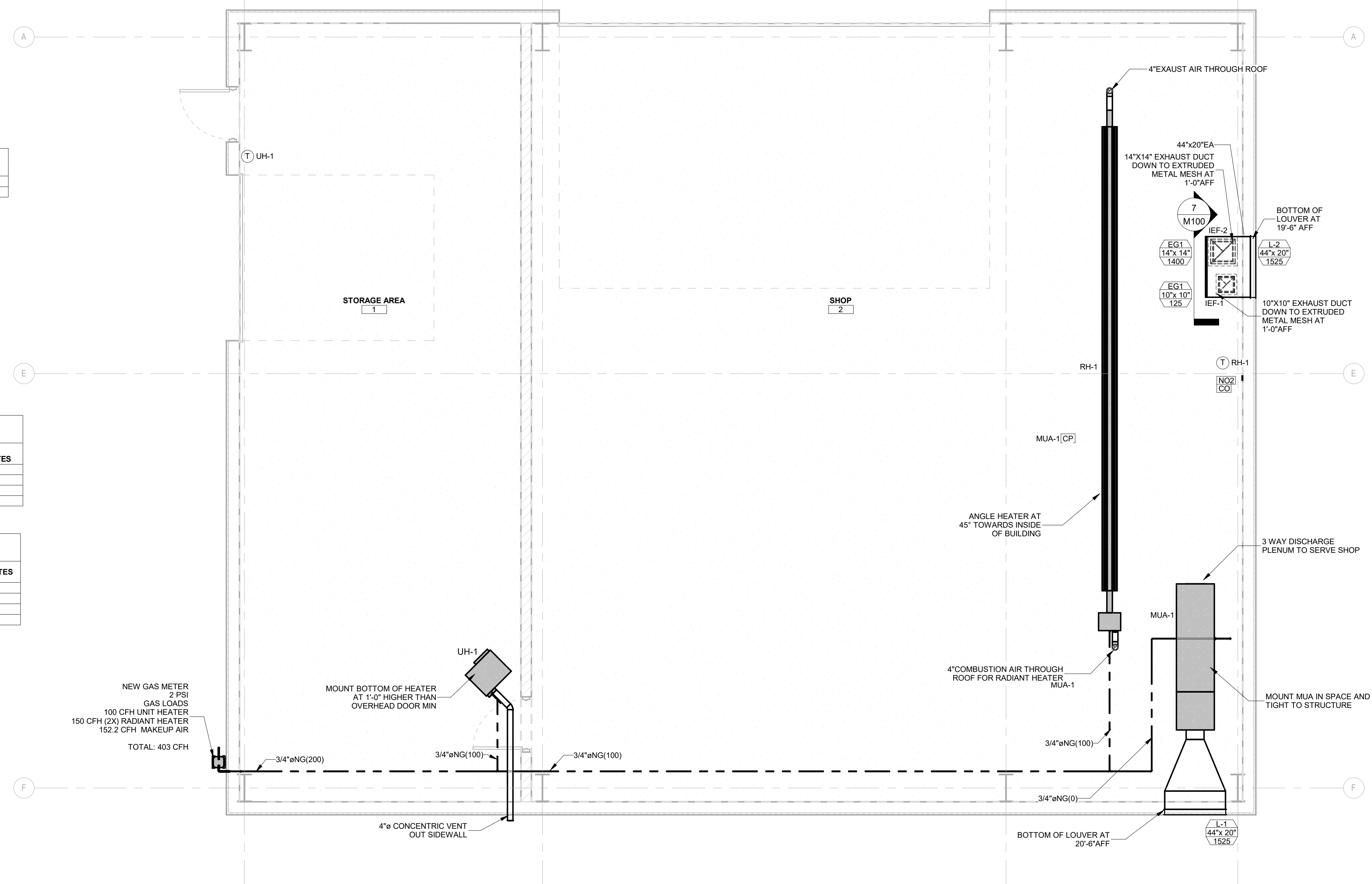
DUCT CONSTRUCTION AND INSULATION SCHEDULE										
SYSTEM TYPE	LOCATION	MATERIAL	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	INSULATION TYPE	MIN R-VALUE	THICKNESS	NOTES		
GENERAL EXHAUST	ALL	GALVANIZED	2"	B	NONE	NA	NA"	--		
EXHAUST DOWNSTREAM OF BACKDRAFT DAMPER ON FAN	ALL	GALVANIZED	2"	B	FLEXIBLE FIBERGLASS	6	2.0"	1		
MAKEUP AIR OA	ALL	GALVANIZED	2"	A	FLEXIBLE FIBERGLASS	6	2.0"	1		

- NOTES:  
 1. OWENS CORNING, KNAUF, JOHNS MANVILL OR 3M INSULATION

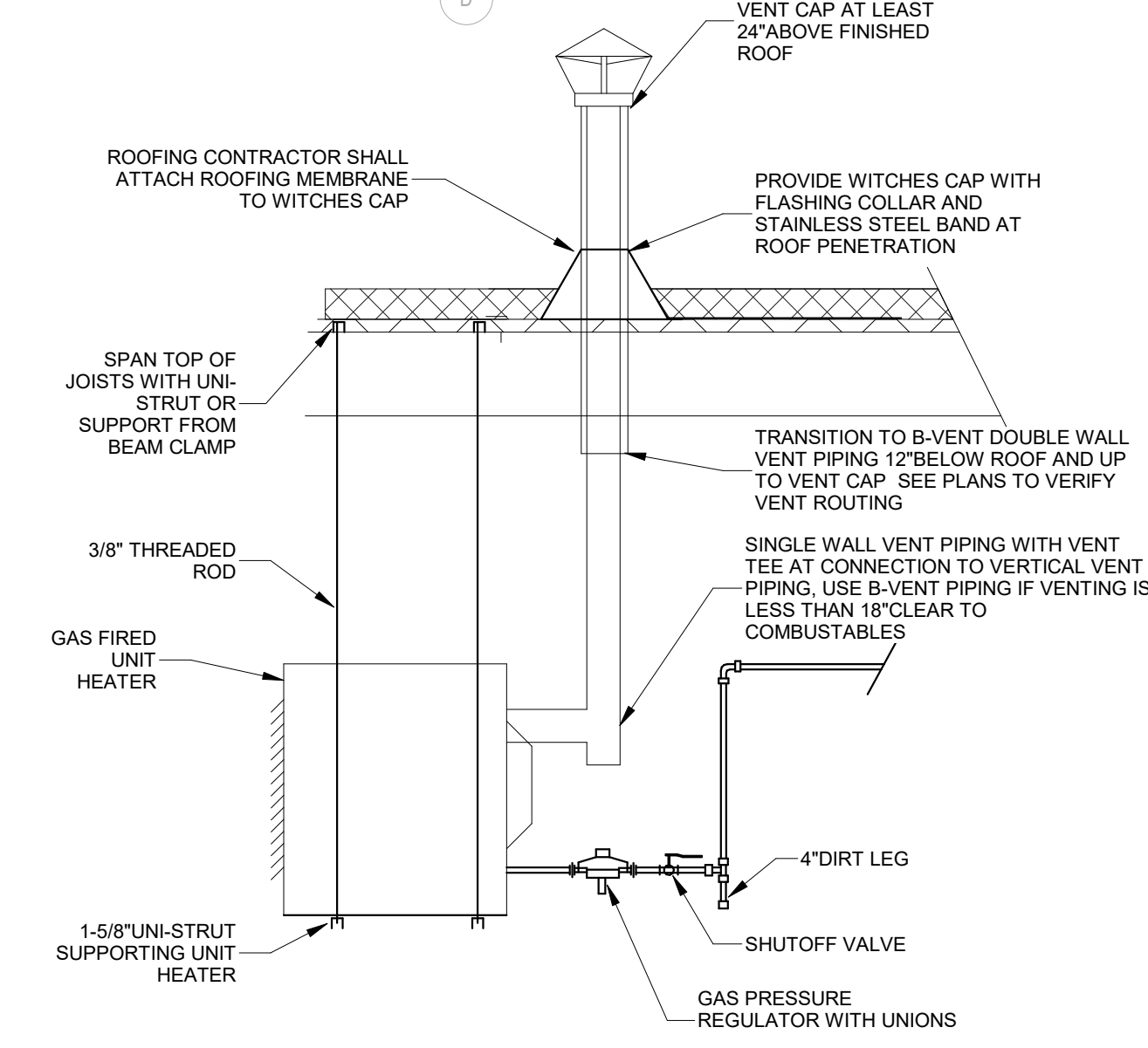
GRILLES REGISTERS AND DIFFUSERS SCHEDULE										
TAG	TYPE	MOUNT	AIR FLOW CFM	NECK SIZE	FACE SIZE	MODEL	MFG	NOTES		
EG1	Exhaust Air	DUCT	AS SHOWN		1" NECK, SEE PLAN	EXTRUDED METAL	PRICE			

MAKE-UP AIR UNIT SCHEDULE																			
TAG	SERVES	MOUNTING	AIRFLOW	ESP	TSP	RPM	HEATING		ELECTRICAL				MODEL	MFG	WEIGHT	NOTES			
							HEATING TYPE	INPUT	OUTPUT	V	PH	HTZ					MCA	MOC	HP
MUA-1	SHOP	SUSPENDED	1525 CFM	0.50 in-wg	1.21 in-wg	1243	NATURAL GAS	152200 Btu	140000 Btu	115 V	1	60 Hz	19 A	30 A	0.75 hp	DG-109-H10	Greenheck	581.00 lb	1,2,3,4,5

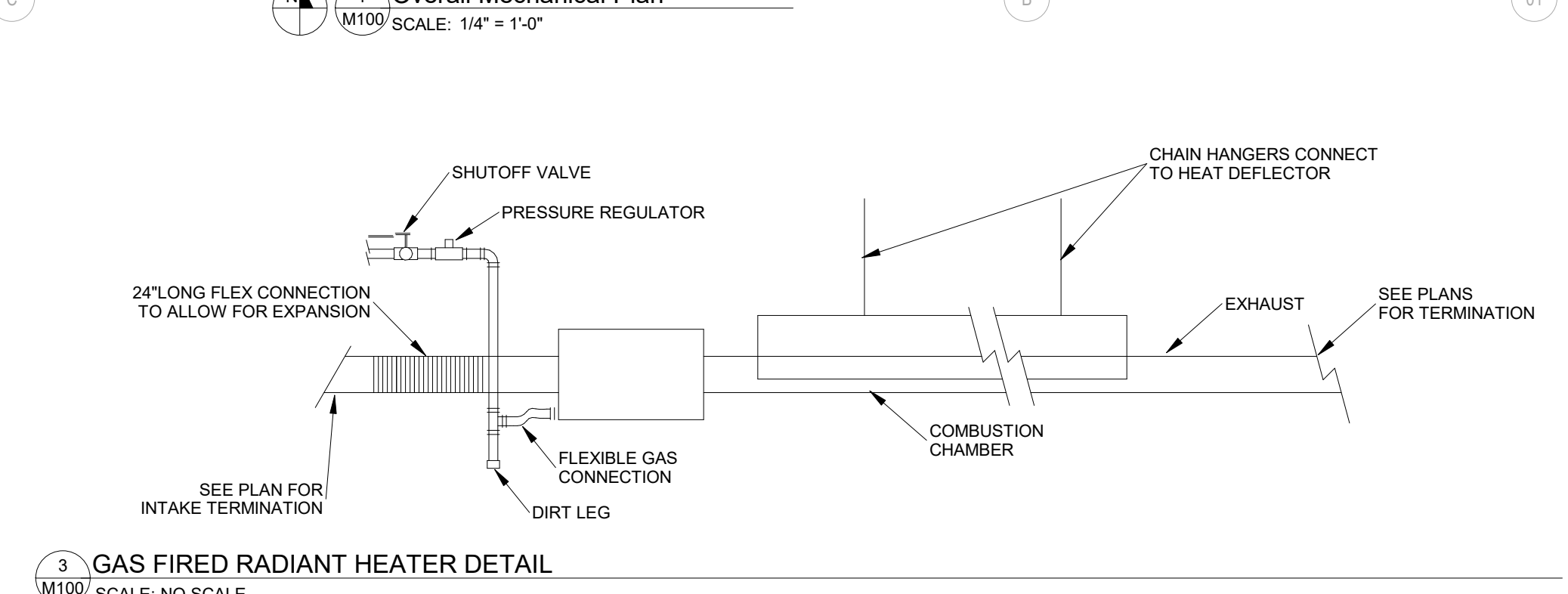
- HVAC SYMBOLS AND ABBREVIATIONS
- 12X10 12" WIDE X 10" DEEP DUCT
  - 12X10 12" ROUND DUCT
  - LINED DUCT
  - RECT ELBOW
  - RECT ELBOW WITH TURNING VANES
  - RECT ELBOW UP OR DOWN
  - THERMOSTAT
  - SENSOR
  - CO SENSOR
  - NO2 SENSOR
  - CO2 SENSOR
  - CONTROL PANEL
  - WALL SWITCH
  - SMOKE DETECTOR
  - TIMECLOCK
  - VOLUME DAMPER
  - MOTORIZED DAMPER
  - SUPPLY
  - RETURN
  - ROUND ELBOW
  - RECTANGULAR RADIUS ELBOW
  - FLEX DUCT
  - ROUND TAP
  - 12X10AL 12X10 ALUMINUM DUCT
  - 12X10SS 12X10 STAINLESS STEEL DUCT
  - 12X10BI 12X10 BLACK IRON DUCT
  - CONNECTION TO EXISTING
  - HHWS HEATING HOT WATER SUPPLY
  - HHWR HEATING HOT WATER RETURN
  - F/S FIRE SMOKE DAMPER
  - F FIRE DAMPER
  - S SMOKE DAMPER
  - RD RADIATION DAMPER
  - RVD REMOTE OPERATED VOLUME DAMPER
  - MOD MOTOR OPERATED DAMPER
  - SA SUPPLY AIR
  - RA RETURN AIR
  - EA EXHAUST AIR
  - RE RELIEF AIR
  - OA OUTSIDE AIR



1 INLINE EXHAUST FAN SECTION  
 M100 SCALE: 1/4" = 1'-0"

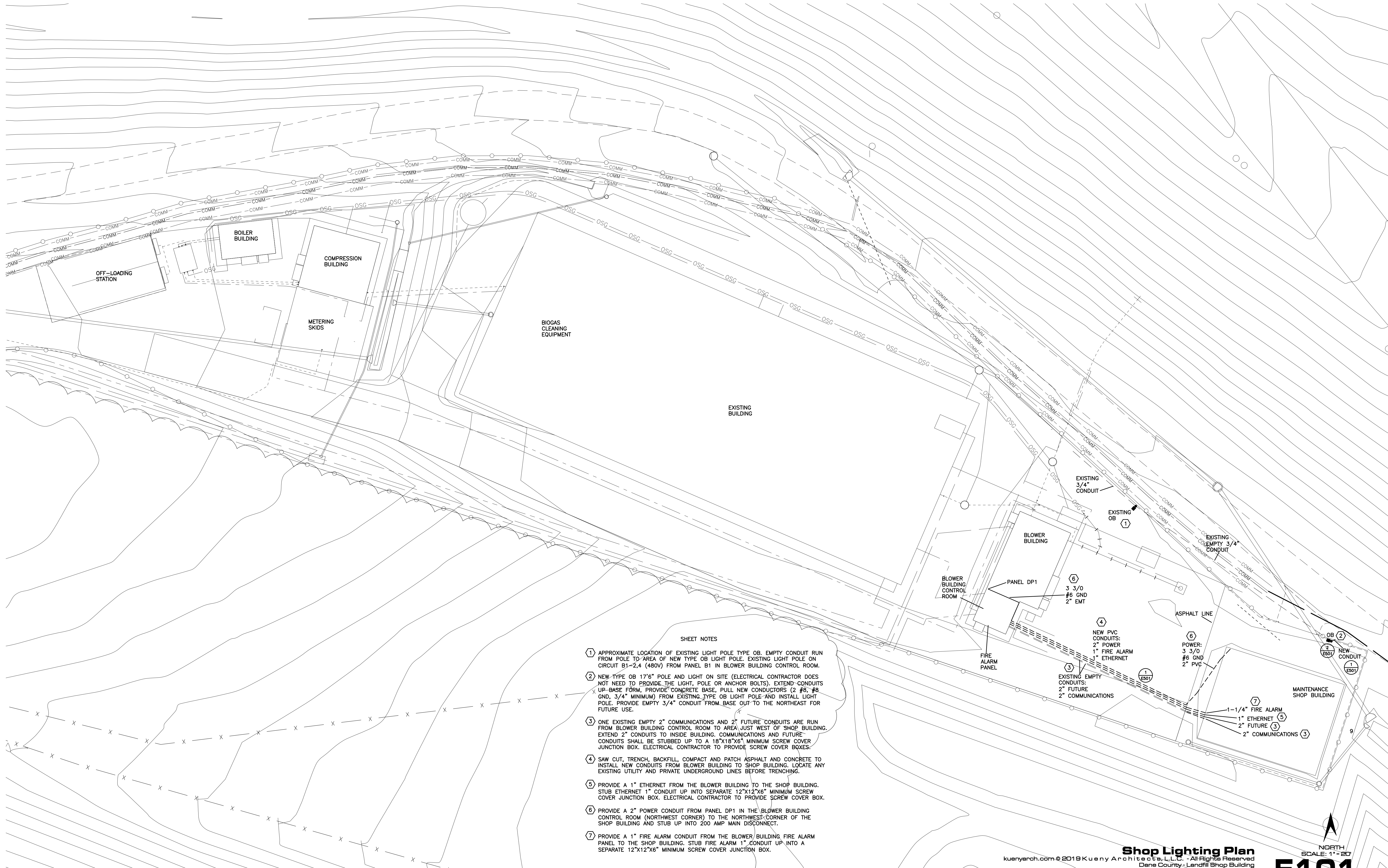


2 GAS FIRED UNIT HEATER  
 M100 SCALE: NO SCALE



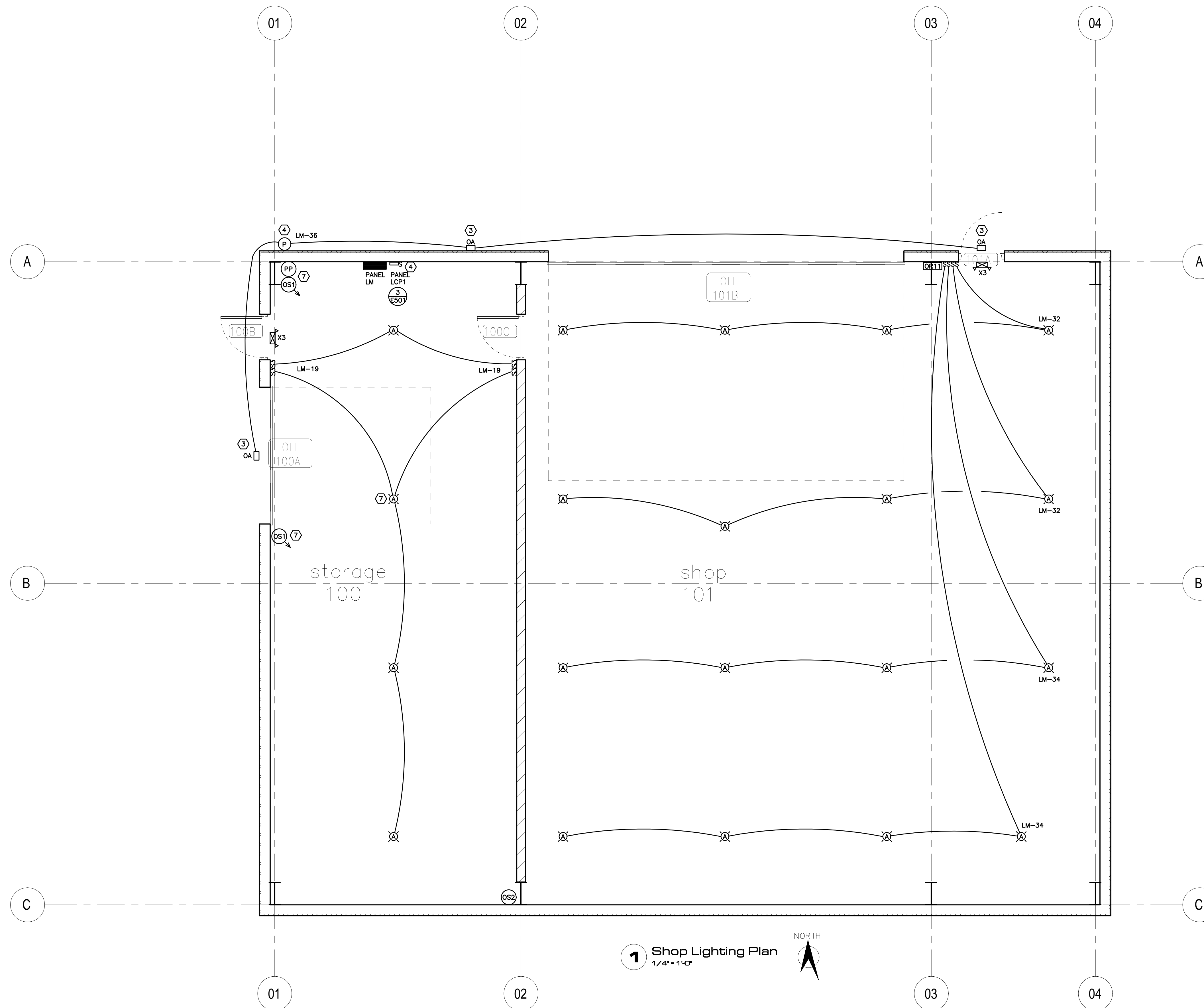
3 GAS FIRED RADIANT HEATER DETAIL  
 M100 SCALE: NO SCALE

1 Overall Mechanical Plan  
 M100 SCALE: 1/4" = 1'-0"



SHEET NOTES

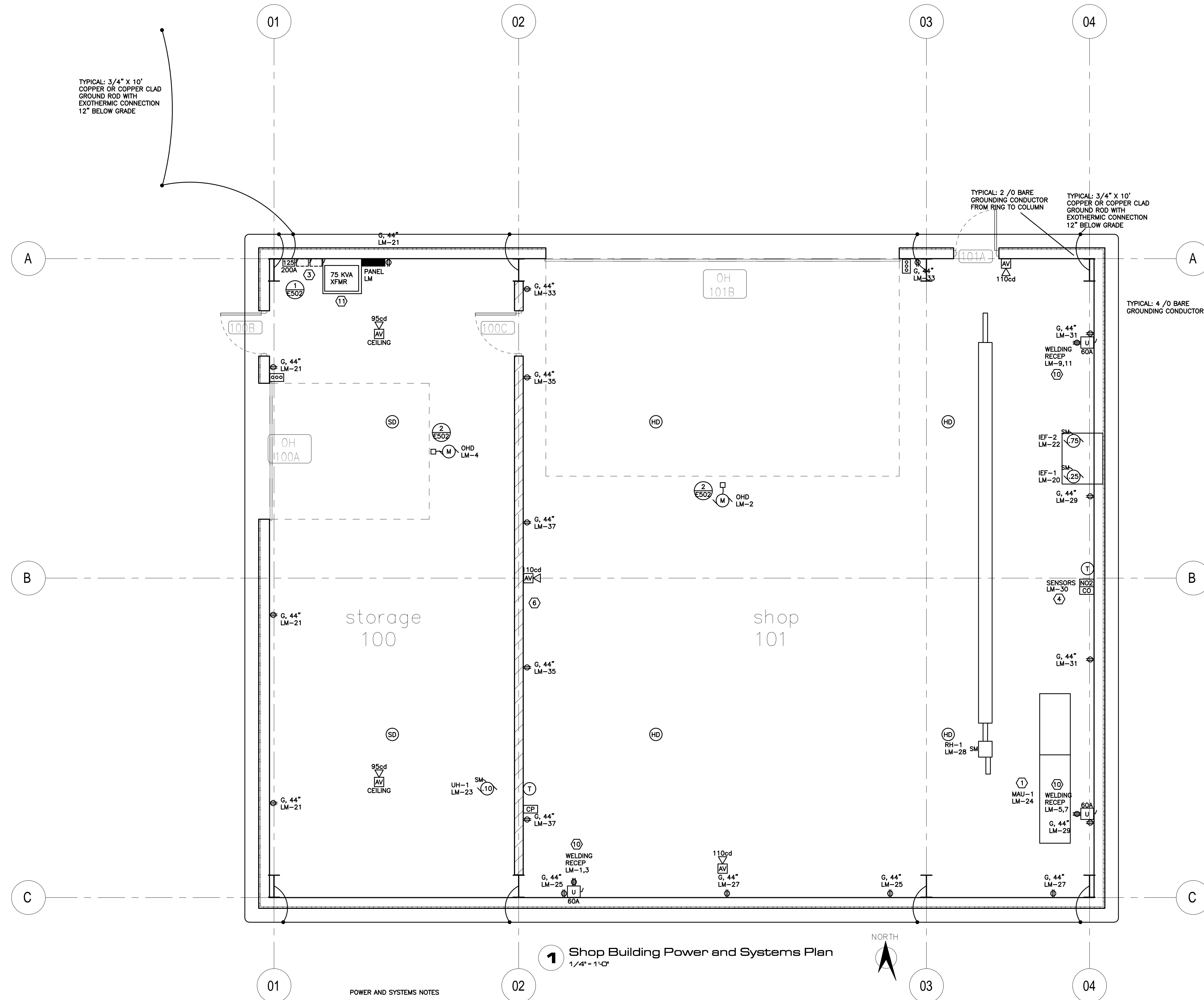
- ① APPROXIMATE LOCATION OF EXISTING LIGHT POLE TYPE OB. EMPTY CONDUIT RUN FROM POLE TO AREA OF NEW TYPE OB LIGHT POLE. EXISTING LIGHT POLE ON CIRCUIT B1-2,4 (480V) FROM PANEL B1 IN BLOWER BUILDING CONTROL ROOM.
- ② NEW TYPE OB 17"6" POLE AND LIGHT ON SITE (ELECTRICAL CONTRACTOR DOES NOT NEED TO PROVIDE THE LIGHT, POLE OR ANCHOR BOLTS). EXTEND CONDUITS UP-BASE FORM, PROVIDE CONCRETE BASE, PULL NEW CONDUCTORS (2 #8, #8 GND, 3/4" MINIMUM) FROM EXISTING TYPE OB LIGHT POLE AND INSTALL LIGHT POLE. PROVIDE EMPTY 3/4" CONDUIT FROM BASE OUT TO THE NORTHEAST FOR FUTURE USE.
- ③ ONE EXISTING EMPTY 2" COMMUNICATIONS AND 2" FUTURE CONDUITS ARE RUN FROM BLOWER BUILDING CONTROL ROOM TO AREA JUST WEST OF SHOP BUILDING. EXTEND 2" CONDUITS TO INSIDE BUILDING. COMMUNICATIONS AND FUTURE CONDUITS SHALL BE STUBBED UP TO A 18"x18"x6" MINIMUM SCREW COVER JUNCTION BOX. ELECTRICAL CONTRACTOR TO PROVIDE SCREW COVER BOXES.
- ④ SAW CUT, TRENCH, BACKFILL, COMPACT AND PATCH ASPHALT AND CONCRETE TO INSTALL NEW CONDUITS FROM BLOWER BUILDING TO SHOP BUILDING. LOCATE ANY EXISTING UTILITY AND PRIVATE UNDERGROUND LINES BEFORE TRENCHING.
- ⑤ PROVIDE A 1" ETHERNET FROM THE BLOWER BUILDING TO THE SHOP BUILDING. STUB ETHERNET 1" CONDUIT UP INTO SEPARATE 12"x12"x6" MINIMUM SCREW COVER JUNCTION BOX. ELECTRICAL CONTRACTOR TO PROVIDE SCREW COVER BOX.
- ⑥ PROVIDE A 2" POWER CONDUIT FROM PANEL DP1 IN THE BLOWER BUILDING CONTROL ROOM (NORTHWEST CORNER) TO THE NORTHWEST-CORNER OF THE SHOP BUILDING AND STUB UP INTO 200 AMP MAIN DISCONNECT.
- ⑦ PROVIDE A 1" FIRE ALARM CONDUIT FROM THE BLOWER BUILDING FIRE ALARM PANEL TO THE SHOP BUILDING. STUB FIRE ALARM 1" CONDUIT UP INTO A SEPARATE 12"x12"x6" MINIMUM SCREW COVER JUNCTION BOX.



**1 Shop Lighting Plan**  
1/4" = 1'-0"

LIGHTING NOTES

- ① MOUNT TYPE A LIGHTS APPROXIMATELY 21' AFF. PROVIDE HOOK AND SAFETY CABLE.
- ② MOUNT TYPE X3 EMERGENCY EXIT LIGHTS 10' AFF.
- ③ CENTER TYPE OA LIGHT 20' AFF.
- ④ MOUNT PHOTOCELL 10' AFF. PROVIDE OVERRIDE SWITCH NEXT TO PANEL LM. LABEL SWITCH "PHOTOCELL OVERRIDE". PHOTOCELL SHALL BE INTERMATIC EK4236S OR EQUAL.
- ⑤ GENERAL NOTE: AREA ALONG SOUTH WALL WITH GLASS IS NOT A DAYLIT AREA. EFFECTIVE APERTURE IN SOUTH STORAGE AND SOUTH SHOP IS LESS THAN 1.
- ⑥ GENERAL NOTE: PROVIDE STRUT ACROSS PURLINS TO HANG LIGHTS AS REQUIRED. PROVIDE STRUT AT WALLS TO MOUNT EQUIPMENT AS REQUIRED.
- ⑦ STORAGE: PROVIDE TWO TYPE OS1 OCCUPANCY SENSORS AT 8' AFF WIRED TO ONE POWER PACK. WIRE POWER PACK RELAY BEFORE SOUTH THREE WAY LIGHT SWITCHES FOR THREE LIGHTS. NORTH LIGHT IS NOT WIRED THRU OCCUPANCY SENSOR TO PROVIDE LIGHT FOR WORKING ON NORTH ELECTRICAL EQUIPMENT.



**1 Shop Building Power and Systems Plan**  
1/4" = 1'-0"



- POWER AND SYSTEMS NOTES**
- ① MAU-1 SUPPLIED WITH DISCONNECT ON UNIT.
  - ② 2/0 GROUND CONDUCTOR TO RUN FROM RING UP TO COLUMN. PROVIDE EXOTHERMIC CONNECTION AT COLUMN. PROVIDE 1" PVC CONDUIT FROM BELOW SLAB TO ABOVE FINISH FLOOR.
  - ③ PROVIDE SPACE NEXT TO MAIN FUSED DISCONNECT FOR TWO FUTURE 200 AMP DISCONNECTS.
  - ④ TYPICAL: PROVIDE 120V POWER TO CO/NO2 SENSOR TRANSFORMERS, SWITCH AS DISCONNECT ON TRANSFORMER PRIMARY, CONDUIT AND BOXES AS REQUIRED AT ALL CO/NO2 LOCATIONS. LOW VOLTAGE TRANSFORMERS, CO SENSOR, NO2 SENSOR AND LOW VOLTAGE WIRING BY HVAC CONTRACTOR. CO SENSOR LOCATED APPROXIMATELY 3' TO 5' AFF. NO2 SENSOR LOCATED WITHIN 3' TO 5' OF CEILING OR ROOF DECK.
  - ⑤ GENERAL NOTE: PROVIDE STRUT AT WALLS TO MOUNT EQUIPMENT AS REQUIRED.
  - ⑥ RECESS MOUNT DEVICES IN BLOCK WALL.
  - ⑦ GENERAL NOTE: PROVIDE LIGHTNING PROTECTION PER SPECIFICATIONS FOR THE SHOP BUILDING. LIGHTNING PROTECTION COMPONENTS SHALL CONFORM TO NFPA 780 AND UL 96. DESIGN/BUILD LIGHTNING PROTECTION SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH PROVISIONS OF THE LATEST APPLICABLE CODES AND STANDARDS TO OBTAIN A UL "MASTER LABEL".

- ⑧ GENERAL NOTE: SEE SITE PLAN FOR CONDUITS RUN TO OTHER BUILDINGS.
- ⑨ GENERAL NOTE: PROVIDE SEPARATE FIRE ALARM SLC AND NAC CIRCUIT FROM EST 104GD FIRE ALARM PANEL FAP-1 IN BLOWER BUILDING CONTROL ROOM. SMOKE AND HEAT DETECTORS SHALL BE CONNECTED TO THE SLC CIRCUIT. AUDIO/VISUAL DEVICES SHALL BE CONNECTED TO THE NAC CIRCUIT. PROVIDE SURGE PROTECTION AT EACH BUILDING FOR SLC AND NAC FIRE ALARM CIRCUITS. PROGRAM SHOP AUDIO/VISUAL DEVICES TO GO INTO ALARM WHEN A SHOP SMOKE OR SHOP HEAT DETECTOR IS IN AN ALARM CONDITION. REPORT ALARM AND TROUBLE CONDITIONS TO CENTRAL MONITORING SERVICE. PROVIDE FIRE ALARM DRAWINGS TO STATE (ONLY IF REQUIRED) AND LOCAL AHJ.
- ⑩ PROVIDE THREE PRONG, 50 AMP, 208V, SINGLE PHASE RECEPTACLES FOR WELDERS. VERIFY WELDER PLUG TYPE AND PROVIDE MATCHING RECEPTACLE.
- ⑪ PROVIDE 4" CONCRETE HOUSE KEEPING PAD FOR TRANSFORMER.

SYMBOLS

- S SINGLE POLE SWITCH—TOP OF BOX 48" AFF
- S2 TWO POLE SWITCH—TOP OF BOX 48" AFF
- S3 THREE WAY SWITCH—TOP OF BOX 48" AFF
- SD DIMMER SWITCH—TOP OF BOX 48" AFF
- SL LIGHTED SWITCH — LIGHT ON W/LOAD—TOP 48" AFF
- SL3 LIGHTED THREE WAY SWITCH — LIGHT ON W/LOAD TOP OF BOX 48" AFF
- ST COMMERCIAL 30 MINUTE ELECTRONIC TIMER SWITCH INTERMATIC E205 SERIES OR EQUAL
- SWT COMMERCIAL 2 HOUR SPRING WOUND TIMER SWITCH INTERMATIC FD2H SERIES OR EQUAL
- ⊕ DUPLEX RECEPTACLE OFFICE NEMA 5-15R, 18" AFF UNLESS NOTED OTHERWISE ALL OTHER AREAS NEMA 5-20R, TOP OF BOX 48" AFF SHOP
- C COUNTER MOUNT 6" ABOVE COUNTER BACKSPASH
- B BELOW COUNTER
- G GFCI
- WP G WEATHERPROOF GFCI WITH CAST ALUMINUM IN-USE COVER
- TV 1" BELOW CEILING
- ⊕ FLOOR DUPLEX RECEPTACLE NEMA 5-15R
- ⊕ 208V, 1 PHASE RECEPTACLE 18" AFF OFFICE, TOP OF BOX 48" AFF SHOP
- ⊕ TWO DUPLEX RECEPTACLES NEMA 5-20R TOP OF BOX 48" AFF—SHOP, YENING
- ⊕ CORD DROP RECEPTACLE. PROVIDE SO CORD, GRIP, STRAIN RELIEF, BOX AND RECEPTACLE.
- ⊕ QUAD CORD DROP RECEPTACLE. PROVIDE SO CORD, GRIP, STRAIN RELIEF, BOX AND RECEPTACLE.
- SM MANUAL MOTOR SWITCH PADLOCKABLE IN THE OFF POSITION
- ⊕ 208V RECEPTACLE WITH FUSIBLE DISCONNECT—HEIGHT AS INDICATED
- ⊕ 480V RECEPTACLE WITH FUSIBLE DISCONNECT—HEIGHT AS INDICATED
- EC ELECTRICAL CONTRACTOR
- MC MECHANICAL CONTRACTOR
- GC GENERAL CONTRACTOR
- WP WEATHER PROOF

- CS1 MOTOR COMBINATION STARTER, FUSIBLE HAND-OFF—AUTO SEL. SW., PILOT LIGHT, STARTER SIZE AS INDICATED. ELECTRONIC OVERLOADS. TOP OF HANDLE NO MORE THAN 54" AFF.
- U 30 AMP UNFUSED DISCONNECT—TOP OF HANDLE NO MORE THAN 54" AFF.
- 50/60 AMP 60 AMP FUSED DISCONNECT WITH 50 AMP FUSES — TOP OF HANDLE NO MORE THAN 54" AFF.
- P POWER BOX
- D DATA BOX
- SC LOW VOLTAGE SPEED CONTROL SWITCH
- 60A F I INTERLOCKED DISCONNECT/RECEPTACLE
- CP CONTROL PANEL
- 1/2 1/2 HP MOTOR
- EWC ELECTRIC WATER COOLER
- VIF VERIFY IN FIELD
- EWH ELECTRIC WATER HEATER
- EBB ELECTRIC BASEBOARD HEATER
- RH RADIANT HEATERS
- UH UNIT HEATER
- FC FAN COIL
- MUA MAKE UP AIR UNIT
- P PUMP
- IG ISOLATED GROUND
- NL NIGHT LIGHT
- LC LIGHTING CONTACTOR
- P PHOTOCELL
- TC TIME CLOCK
- R RELAY

- AV PULL STATION—OPERATING HANDLE NOT MORE THAN 48" AFF
- A HORN—80" AFF
- V STROBE—80" AFF
- F WATER FLOW SWITCH
- T TAMPER SWITCH
- DD DUCT SMOKE DETECTOR
- RT REMOTE TEST STATION
- CO CO DETECTOR
- B SPRINKLER BELL/STROBE
- I INDIVIDUAL ADDRESSABLE MODULE
- RM INDIVIDUAL ADDRESSABLE RELAY MODULE
- PL POWER LOSS RELAY MODULE
- HO DOOR HOLD OPEN
- MR FIRE PUMP MOTOR RUNNING
- LP FIRE PUMP LOSS OF PHASE
- PR FIRE PUMP PHASE REVERSAL
- AS FIRE PUMP ALTERNATE SOURCE
- LT LOW TEMPERATURE
- WL WATER LEVEL LOWERED
- WR WATER LEVEL RESTORED
- P LOW PRESSURE
- G GAS DETECTION HORN/STROBE PROVIDE BOX AND 1/2" EMT UP TO 5' DIST AREA. MOUNT BOX AT 5' AFF.

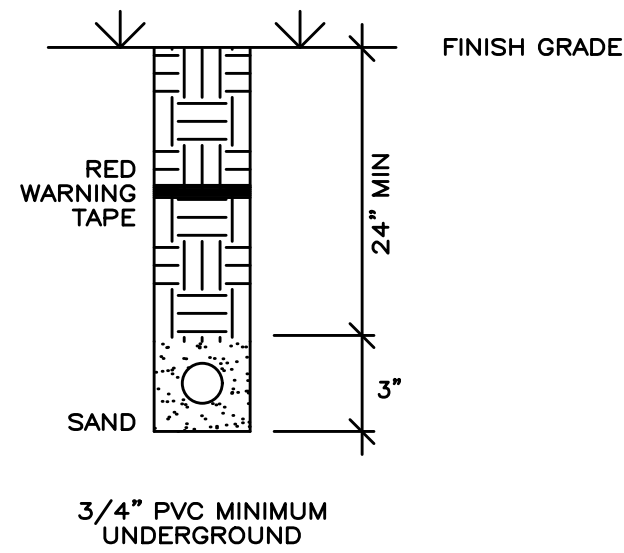
- SF FAN SPEED CONTROL SWITCH TOP 48" AFF
- 1 PROVIDE BOX AND 1/2" CONDUIT TO CEILING AREA IN HIGH BAY AREAS FOR THERMOSTAT, THERMOSTAT AND LOW VOLTAGE WIRING BY HVAC CONTRACTOR.
- OS1 WALL MOUNT INFRARED, 115 DEGREE, 2500 SQ FT, OCCUPANCY SENSOR. LEVITON OSWV—LOW OR EQUAL. INCLUDE LEVITON OSP20—ODD POWER PACK.
- PP LEVITON OSP20—ODD POWER PACK OR EQUAL.

TYPICAL: IN ROOMS WITH MULTIPLE OCCUPANCY SENSORS, THE SENSORS SHALL BE WIRED TO A COMMON POWER PACK OR POWER PACKS AS REQUIRED UNLESS SHOWN OR NOTED OTHERWISE. KEEP ULTRASONIC AND MULTI-TECHNOLOGY SENSORS AT LEAST 6' FROM HVAC DUCT OPENINGS. VERIFY OCCUPANCY SENSOR LOCATIONS WITH OWNER AND ARCHITECT FOR ANY FUTURE SHELVING OR OTHER ITEMS THAT MAY BLOCK THE SENSING RANGE. "OR EQUAL" MEANS SENSORS AND POWER PACKS WITH THE SAME SENSING RANGE, FUNCTIONS AND NUMBER OF SENSORS PER POWER PACK AS SPECIFIED ABOVE.

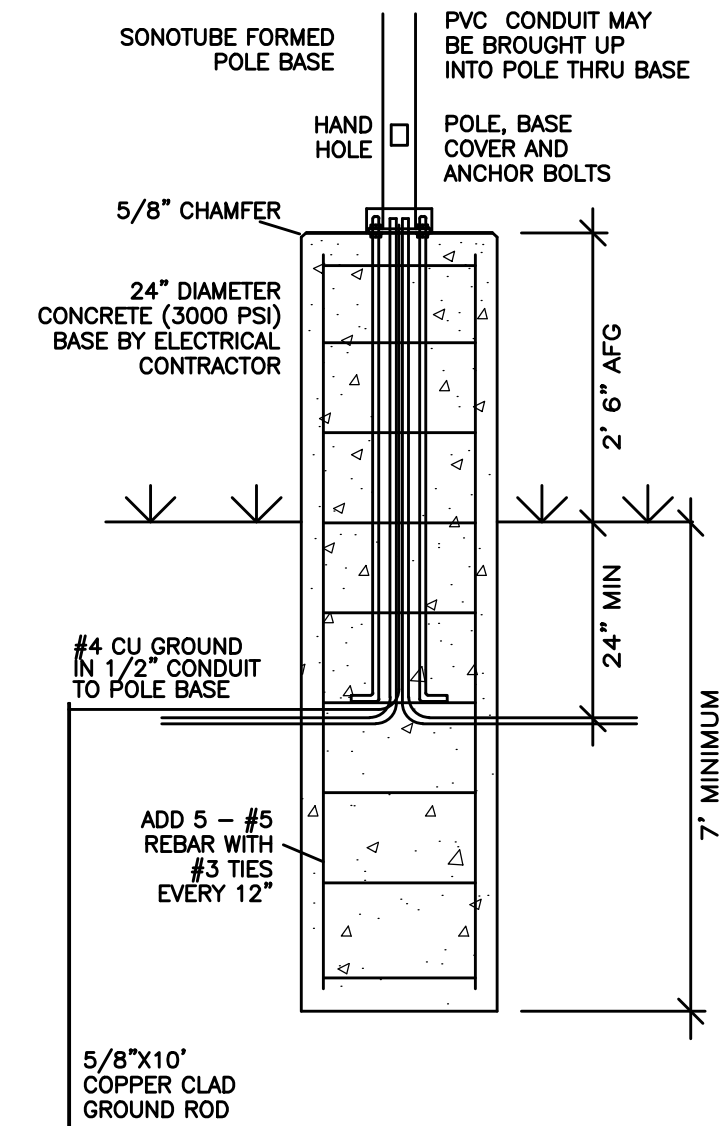
OCCUPANCY SENSOR TIME DELAY: SET ALL STORAGE OCCUPANCY SENSOR TIME DELAYS TO 5 MINUTES.

SYSTEMS

VOICE/DATA: WALL, FLOOR EC TO INSTALL 3/4" CONDUIT STUBBED ABOVE WALL OR OTHER ACCESSIBLE AREA. EXTEND CONDUIT UP TO JOISTS IN HIGH BAY AREAS. 4" SQUARE STEEL BOX WITH 1 GANG PLASTER RING UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO USE CONDUIT AT SURFACE MOUNT LOCATIONS (SHOP AREAS, MECHANICAL ROOMS, VEHICLE AREAS). SYSTEMS CONTRACTOR TO PULL CABLE, TERMINATE AND PROVIDE JACKS AND COVER PLATES. SEE ELECTRICAL DRAWINGS FOR VOICE/DATA LOCATIONS. MOUNT 18" AFF UNLESS NOTED OTHERWISE. "W" INDICATES WALL PHONE AT 54". VERIFY MOUNTING HEIGHT WITH SYSTEMS CONTRACTOR.



1 TYPICAL TRENCHING DETAIL



2 TYPICAL LIGHT POLE BASE

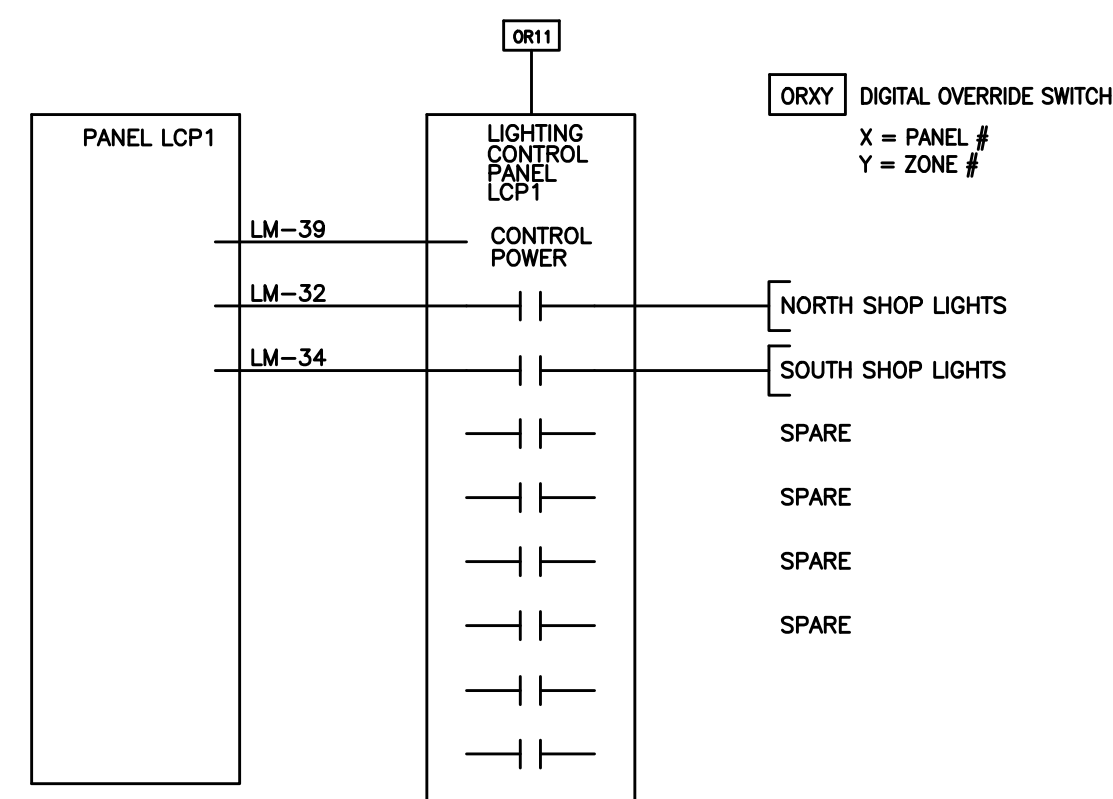
LIGHT FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP NO.	LAMP	BALLAST	AMPS	WATTS	MOUNT	NOTES
A	HIGH BAY LED	LITHONIA	JERL-12L-40K-80CRI-WH/JEBLPC11M4 REFLECTOR/JCBLSC120 SAFETY CABLE	120	LED	LED, 4000K, 13,286 LUMENS	LED DIMMING DRIVER	.81	92	HOOK, CORD	1,2,4
X3	COMBINATION EMERGENCY LIGHT/LED EXIT	LITHONIA	LHGM-LED-R	120	3	L.E.D. PANEL, 2 9.6V, 1.5W LED		.05	4.3	SURFACE	3
QA	SECURITY	LITHONIA	OLWX1LED-40W-40K-120-PE	120	LED	LED, 4000K, 4,027 LUMENS		.37	39	SURFACE	
OB	SINGLE LIGHT POLE			480	LED				220	17'6" POLE, BASE	5

**SCHEDULE NOTES**

- SUSPEND LIGHT BY HOOK.
- INCLUDE SAFETY CABLE.
- NICKLE CADMIUM BATTERY.
- INCLUDE CLEAR POLYCARBONATE REFLECTOR.
- LIGHT AND POLE ON SITE. ELECTRICAL CONTRACTOR TO INSTALL.

**GENERAL NOTES**

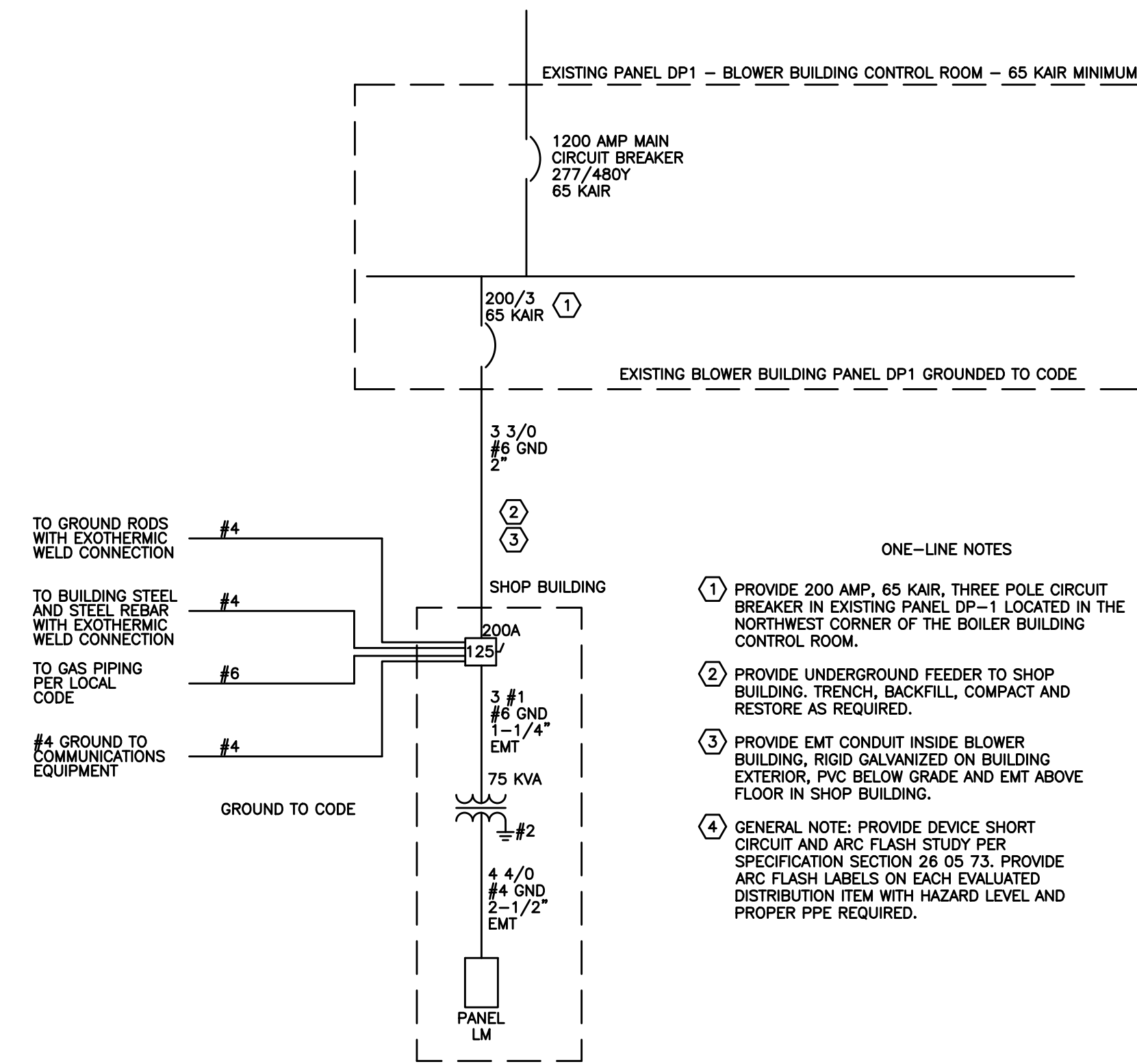
- UNLESS NOTED, EQUIVALENT FIXTURES FROM THE FOLLOWING MANUFACTURERS WILL BE ACCEPTED: GENLYTE THOMAS (DAY-BRITE, CAPRI, OMEGA, EMCO, McPHILBEN), HUBBELL LIGHTING (COLUMBIA, PRESCOLITE, SPAULDING, DUAL LITE), CREE, LSI AND COOPER LIGHTING (METALUX, HALO, LUMARK, SURE-LITES). EQUIVALENT LIGHT FIXTURES WILL BE EQUAL OR BETTER THAN THE SPECIFIED FIXTURE. ANY LIGHT FIXTURE THAT IS NOT EQUAL WILL BE REJECTED.
- FIXTURES SHALL BE LABELED WITH LAMP TYPE BY MANUFACTURER.



LCP1: LEVITON GREENMAX 8 RELAY CONTROL PANEL OR EQUAL FROM DOUGLAS, GE, GREENGATE, INTERMATIC, EATON OR LC&D.  
 EC TO PROGRAM LIGHT PANEL ON/OFF TIMES TO ACCOMMODATE BUILDING FUNCTIONS. COORDINATE WITH WITH OWNER.  
 OVERRIDE SWITCHES SHALL BE MOMENTARY WITH LED ANNUNCIATION OR EQUAL. OVERRIDE SWITCHES TO ALLOW TWO ADDITIONAL HOURS OF LIGHT AFTER PRESET TIME.  
 ALL SWITCHES SHALL BE LABELED OR ENGRAVED BY THE MANUFACTURER.  
 INCLUDE A 1 HOUR TRAINING SESSION FOR OWNER'S PERSONNEL.

3 LIGHTING CONTROL PANEL LCP1

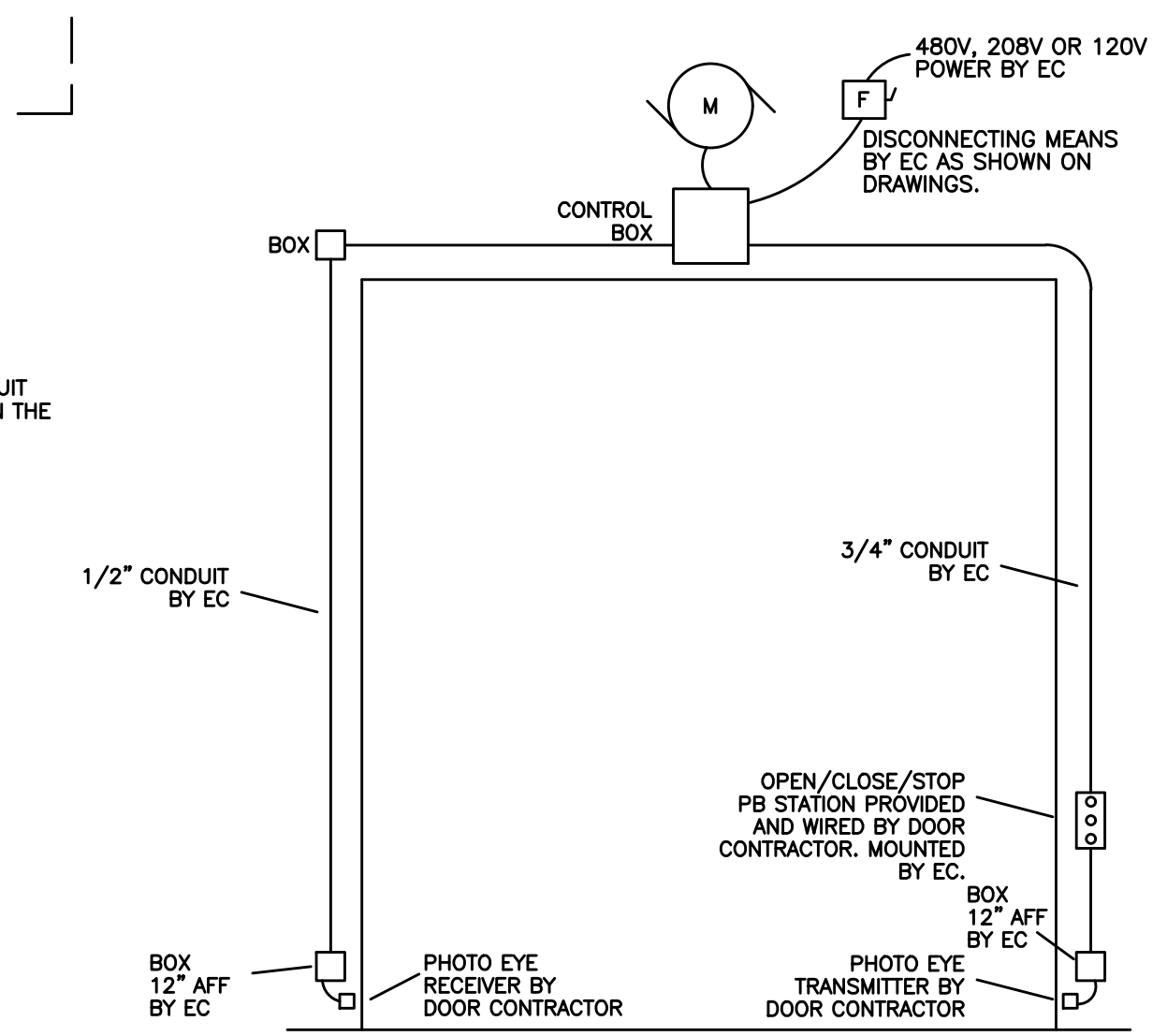




- ONE-LINE NOTES
1. PROVIDE 200 AMP, 65 KAIR, THREE POLE CIRCUIT BREAKER IN EXISTING PANEL DP-1 LOCATED IN THE NORTHWEST CORNER OF THE BLOWER BUILDING CONTROL ROOM.
  2. PROVIDE UNDERGROUND FEEDER TO SHOP BUILDING. TRENCH, BACKFILL, COMPACT AND RESTORE AS REQUIRED.
  3. PROVIDE EMT CONDUIT INSIDE BLOWER BUILDING, RIGID GALVANIZED ON BUILDING EXTERIOR, PVC BELOW GRADE AND EMT ABOVE FLOOR IN SHOP BUILDING.
  4. GENERAL NOTE: PROVIDE DEVICE SHORT CIRCUIT AND ARC FLASH STUDY PER SPECIFICATION SECTION 26 05 73. PROVIDE ARC FLASH LABELS ON EACH EVALUATED DISTRIBUTION ITEM WITH HAZARD LEVEL AND PROPER PPE REQUIRED.

ELECTRICAL CONTRACTOR TO PROVIDE POWER TO OVERHEAD DOOR, BOXES (FOR PHOTO EYES) AND MOUNT PUSH BUTTON STATION. ELECTRICAL CONTRACTOR WILL ALSO PROVIDE CONDUIT FROM OVERHEAD DOOR CONTROL BOX TO PUSH BUTTON STATIONS AND BOXES.

DOOR CONTRACTOR TO PROVIDE AND MOUNT MOTOR AND PHOTO EYES. DOOR CONTRACTOR TO PROVIDE PUSH BUTTON TO EC TO MOUNT. DOOR CONTRACTOR TO WIRE PHOTO EYES AND PUSH BUTTON STATION.



- GENERAL NOTES
1. VERIFY ALL EQUIPMENT, RECEPTACLE AND SWITCH LOCATIONS WITH OWNER.
  2. ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE. ALL LIGHT SWITCHES SHALL BE 20 AMP.
  3. ALL BOXES TO BE WELDED 4" SQUARE MINIMUM UNLESS NOTED OTHERWISE.
  4. ALL CIRCUITS TO HAVE A MAXIMUM VOLTAGE DROP OF 3%. 120V CIRCUITS: 0-50FT, #12; 51-100FT, #10; 101-150, #8; 151FT AND UP, SIZE LESS THAN 3%. LIGHTING CIRCUITS ABOVE 200V: 0-100FT, #12; 101-200FT, #10; 201-300FT, #8; 300FT AND UP, SIZE LESS THAN 3%.
  5. EC TO LABEL ALL RECEPTACLES AND DISCONNECTS WITH WITH LOAD DESCRIPTION AND CIRCUIT NUMBERS. LABEL FRONT OF RECEPTACLE COVER PLATE WITH CIRCUIT NUMBER. USE BROTHER OR KROY OR EQUAL SELF LAMINATING ADHESIVE LABELS. IN SHOP AREAS, USE BLACK LETTERS ON WHITE BACKGROUND. IN FINISHED AREAS, USE BLACK LETTERS ON CLEAR BACKGROUND. DO NOT LABEL BY HAND. ALL PANELS AND TRANSFORMERS SHALL HAVE LABELS. INCLUDE CIRCUIT NUMBER FOR THE FEED TO THE PANEL OR TRANSFORMER.
  6. ALL CONDUCTORS SHALL BE COPPER (#12 MINIMUM).
  7. SECURE ALL CHAIN, CABLE OR PENDANT HUNG LIGHTS NEAR HVAC DUCT OR OVERHEAD DOOR OPENINGS AS REQUIRED TO PREVENT MOVEMENT.
  8. MAINTAIN FIRE RATING AT ALL PENETRATIONS. CAULK CONDUITS AT ALL WALL AND ROOF PENETRATIONS.
  9. THE WORD "PROVIDE" ON THE DRAWINGS AND SPECIFICATIONS MEANS TO PROVIDE AND INSTALL UNLESS NOTED OTHERWISE.
  10. CONDUIT SHALL BE EMT WITH COMPRESSION CONNECTORS AT DRY INTERIOR LOCATIONS, RIGID GALVANIZED CONDUIT AT EXPOSED EXTERIOR LOCATIONS OR WHERE SUBJECT TO DAMAGE AND PVC BELOW GRADE OR STUBBED UP INTO POLE BASES.
  11. PROVIDE SLEEVES FOR CONDUITS THRU CONCRETE AS REQUIRED.
  12. PROVIDE TEMPORARY POWER FROM BLOWER BUILDING PANEL DP1. INTENT IS TO INSTALL PANEL LM AND TRANSFORMER AS SOON AS POSSIBLE TO PROVIDE TEMPORARY POWER AND LIGHTING IN SHOP BUILDING. PROVIDE GFCI PROTECTION ON ALL TEMPORARY CIRCUITS.

1 ONE-LINE 2 TYPICAL: OVERHEAD DOOR

PANEL LM

NO.	DESCRIPTION	BKR	KW	PHASE	KW	BKR	DESCRIPTION	NO.
1	SHOP - SW WELDER RECEP	50/2	-	A	1.92	30/1	SHOP OVERHEAD DOOR	2
3				B	1.18	20/1	STORAGE OVERHEAD DOOR	4
5	SHOP - SE WELDER RECEP	50/2	-	C	-	20/1	SPARE	6
7				A	-	20/1	SPARE	8
9	SHOP - NE SHOP WELDER RECEP	50/2	-	B	-	20/1	SPARE	10
11				C	-	20/1	SPARE	12
13	SPARE	20/1	-	A	-	20/1	SPARE	14
15	SPARE	20/1	-	B	-	20/1	SPARE	16
17	SPARE	20/1	-	C	-	20/1	SPARE	18
19	STORAGE LIGHTS	20/1	.39	A	.70	15/1	SHOP IEF-1	20
21	STORAGE RECEPTACLES	20/1	.72	B	1.66	20/1	SHOP IEF-2	22
23	STORAGE UNIT HEATER	20/1	.48	C	2.28	30/1	SHOP MAU-1	24
25	SHOP - SOUTH WALL RECEP	20/1	.36	A	.58	15/1	SHOP WEST RADIANT HEATER RH-1	26
27	SHOP - SOUTH WALL RECEP	20/1	.36	B	.58	15/1	SHOP WEST RADIANT HEATER RH-2	28
29	SHOP - EAST WALL RECEP	20/1	.36	C	.36	15/1	SHOP NO2/CO SENSORS	30
31	SHOP - EAST WALL RECEP	20/1	.36	A	-	20/1	SPARE	32
33	SHOP - NORTH WALL RECEP	20/1	.36	B	-	20/1	SPARE	34
35	SHOP - WEST WALL RECEP	20/1	.36	C	-	20/1	SPARE	36
37	SHOP - WEST WALL RECEP	20/1	.36	A	-	20/1	SPARE	38
39	SPARE	20/1	-	B	-	20/1	SPARE	40
41	SPARE	20/1	-	C	-	20/1	SPARE	42

PROVIDE CIRCUIT BREAKER HANDLE CLAMPS TO HOLD ON CIRCUITS WITH FIRE ALARM OR EMERGENCY LIGHTING.  
 \* VERIFY OVERHEAD DOOR MOTOR FLA AND PROVIDE PROPER CIRCUIT BREAKER SIZE AND CIRCUIT.