

# HCPS WAREHOUSE BUILDING

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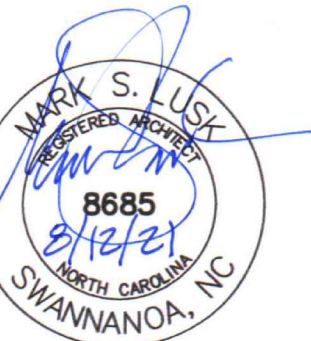
**HCPS  
 WAREHOUSE  
 BUILDING**

Project Number: 21010  
 Drawn: A. Rognas  
 Date: 8/11/21

**COVER  
 SHEET**

**T101**

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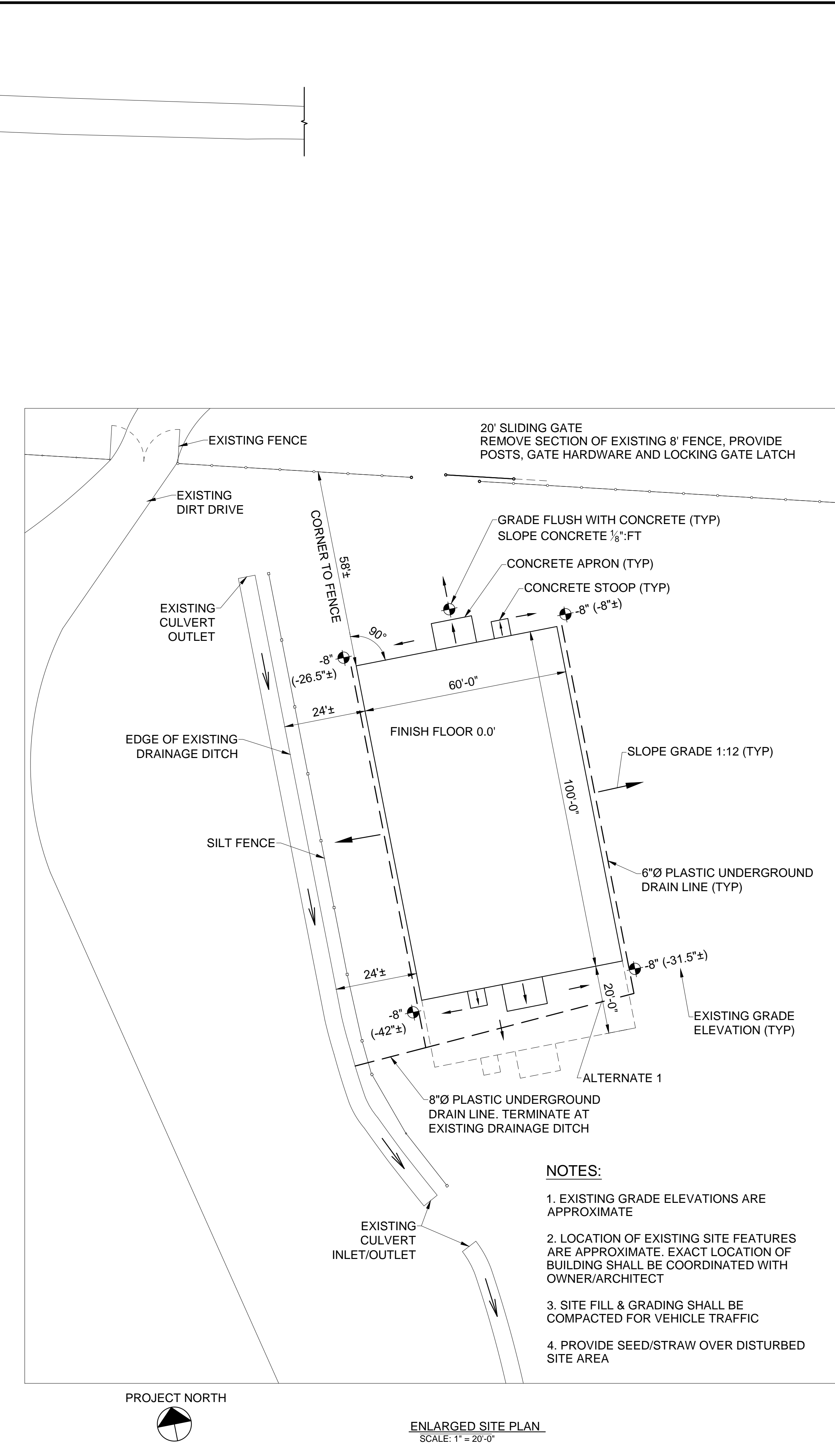
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Project Number: 21010

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**SITE PLAN**

**C101**



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# GENERAL NOTES

## STRUCTURAL DESIGN CRITERIA (APPENDIX B)

BUILDING CODE: NORTH CAROLINA BUILDING CODE, 2018 EDITION  
BUILDING RISK CATEGORY: II

DESIGN LOADS: LIVE LOAD (PSF)  
ROOF: 20

DRIFTING SNOW:  $C_e = 1.0, I = 1.0, P_g = 15$  PSF

WIND LOAD CRITERIA (ASCE 7-10):

WIND VELOCITY: 115 MPH  
EXPOSURE FACTOR: C  
IMPORTANCE FACTOR: 1.0  
WIND BASE SHEARS: PER PEMB DESIGNER

SEISMIC LOAD CRITERIA (NEHRP 2003):

SPECTRAL RESPONSE ACCELERATIONS:  $S_s = 28.5\%g$   $S_1 = 10.6\%g$

DESIGN RESPONSE ACCELERATIONS:  $S_{ds} = 29.9\%g$   $S_{d1} = 16.8\%g$

IMPORTANCE FACTOR: 1.0

SITE CLASSIFICATION: D

DESIGN SEISMIC CATEGORY: C

SEISMIC FORCE RESISTING SYSTEM: H - STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE

(ASCE 7-05, TABLE 12.2-1)

SYSTEM OVER-STRENGTH FACTOR: 3.0

REDUNDANCY FACTOR: 1.0

RESPONSE MODIFICATION FACTOR (R): 3.0

DEFLECTION AMPLIFICATION FACTOR (Cd): 3.0

SEISMIC BASE SHEAR: PER PEMB DESIGNER

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

ARCHITECTURAL MECHANICAL COMPONENTS ANCHORED?: YES

LATERAL DESIGN CONTROL: PER PEMB DESIGNER

## FOUNDATIONS

PRESUMPTIVE DESIGN SOIL BEARING PRESSURE: 2000 PSF

FROST DEPTH: 24"; BOTTOM OF ALL EXTERIOR FOOTINGS AND TURNED-DOWN SLABS SHALL BEAR AT OR BELOW SPECIFIED FROST DEPTH.

TESTING AND INSPECTION:

- AN INDEPENDENT TESTING LABORATORY (ITL) SHALL BE RETAINED WITH A GEOTECHNICAL ENGINEER QUALIFIED TO INSPECT AND TEST SOILS IN ACCORDANCE WITH THE FOLLOWING PROGRAM:
  - PROOFROLLING OF ALL SUBGRADES SHALL BE OBSERVED AND APPROVED BY THE ITL.
  - ALL FOUNDATION BEARING STRATA SHALL BE INSPECTED AND APPROVED BY THE ITL.
  - FIELD ADJUSTMENTS TO SUBGRADES OR BEARING CONDITIONS SHALL ONLY BE MADE WITH THE APPROVAL OF THE ITL.
  - ITL SHALL PERFORM FIELD DENSITY TESTS OF ENGINEERED FILL FOR EVERY 2000 SQ. FT. FOR EACH LAYER UNDER PAVEMENT OR BUILDING SLAB, BUT IN NO CASE FEWER THAN THREE TESTS.

## CAST-IN-PLACE CONCRETE

DESIGN STANDARD: ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

DESIGN COMPRESSIVE STRENGTH AT 28 DAYS (f<sub>c</sub>): 3000 PSI

DENSITY: 145 PCF (NORMAL WEIGHT)

MIX DESIGNS:

- CEMENT SHALL CONFORM TO ASTM C 150, TYPE 1 PORTLAND CEMENT, UNLESS OTHERWISE ACCEPTED BY THE STRUCTURAL ENGINEER.
- FLY ASH SHALL BE ASTM C 618, TYPE C OR F, BUT NOT EXCEEDING 4% LOSS ON IGNITION. FLY ASH SHALL NOT EXCEED 25% OF CEMENT CONTENT BY WEIGHT.
- NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 33. AGGREGATE SIZE SHALL BE #57 OR #67 FOR ALL CONCRETE.
- AIR ENTRAINING ADMIXTURE SHALL BE USED IN ACCORDANCE WITH ACI 301 IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING.
- ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" EXCEPT CONCRETE UTILIZING HIGH OR MID-RANGE WATER REDUCERS SHALL HAVE A MAXIMUM SLUMP OF 6".

REINFORCING STEEL: ASTM A615, GRADE 60

REINFORCEMENT LAP SPLICES:

- ALL BARS MARKED CONTINUOUS ("CONT.") SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS.
- WELDING OR TACK WELDING OF REINFORCING BARS IS PROHIBITED.

CONCRETE COVER FOR REINFORCEMENT:

UNFORMED SURFACE CAST AGAINST EARTH: 3"  
FORMED SURFACE EXPOSED TO EARTH OR WEATHER: 2"  
FORMED SURFACE NOT EXPOSED TO EARTH OR WEATHER: 3/4"  
SLABS, JOISTS:

PLACEMENT:

- WHEN HOT WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN CONFORMANCE WITH ACI 305.
- WHEN COLD WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN CONFORMANCE WITH ACI 306.
- PLACE AND FINISH CONCRETE TO TOLERANCES CONFORMING WITH ACI 117; WITH FLATNESS WITHIN 1/4" IN 10 FT., AS DETERMINED BY A 10 FOOT STRAIGHTEDGE PLACED ANYWHERE ON THE SLAB IN ANY DIRECTION.
- PLACE AND CONSOLIDATE CONCRETE IN CONFORMANCE WITH ACI 309.
- NO CONCRETE FOOTINGS OR GRADE BEAMS SHALL BE SLEEVED FOR PIPING OR DUCTS, UNLESS DETAILED ON THE STRUCTURAL DRAWINGS, OR OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.
- ALUMINUM EMBEDMENTS OF ANY KIND ARE PROHIBITED IN CONCRETE.

CURING:

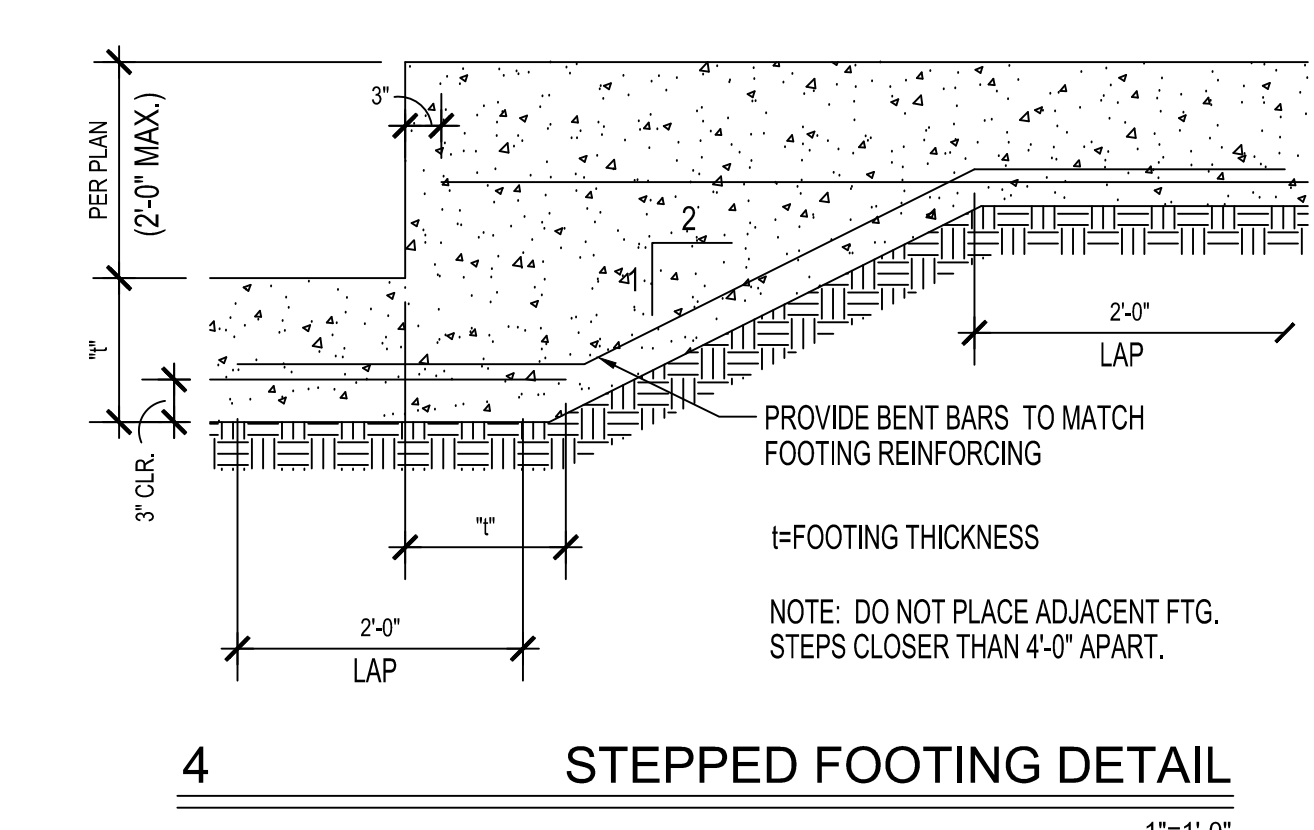
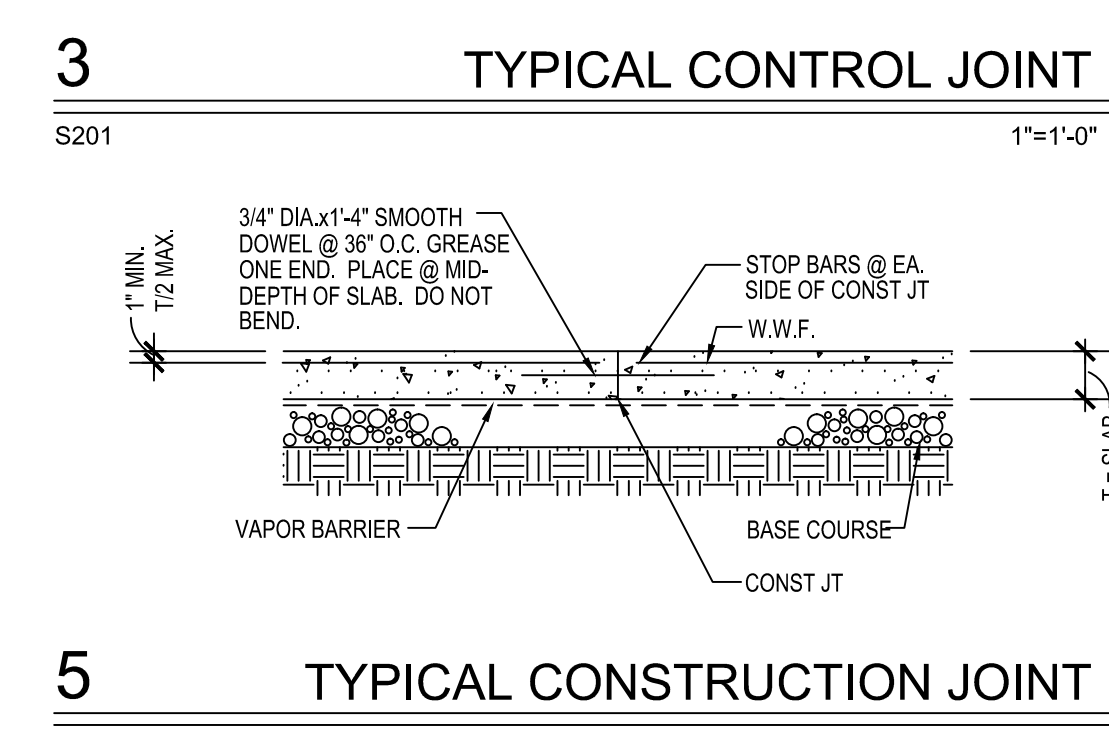
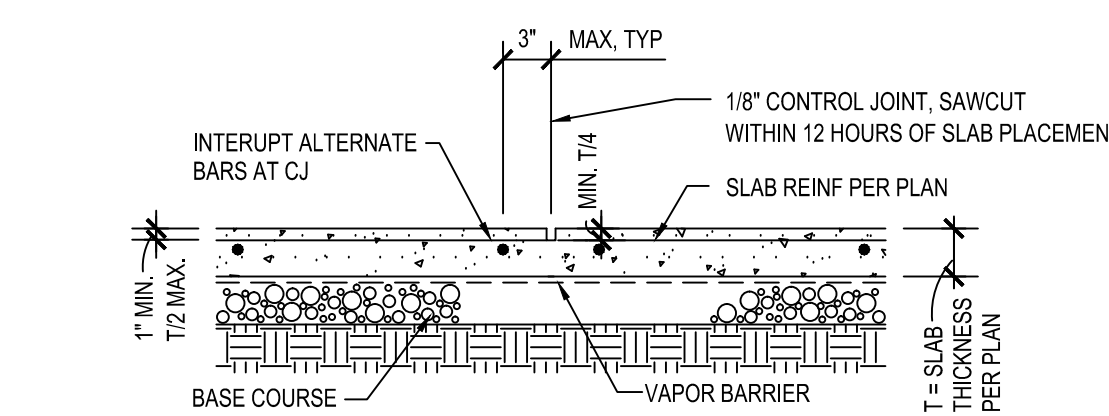
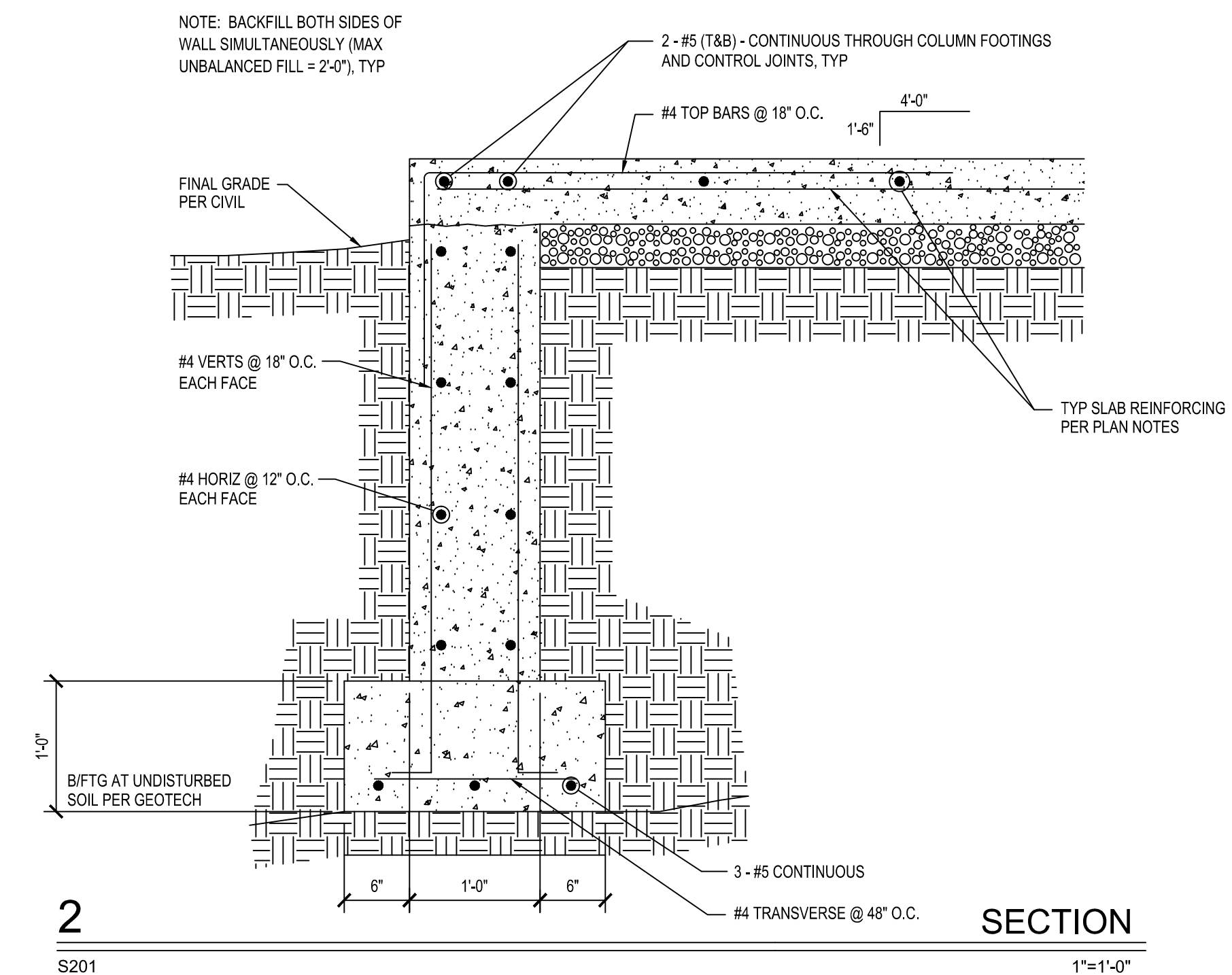
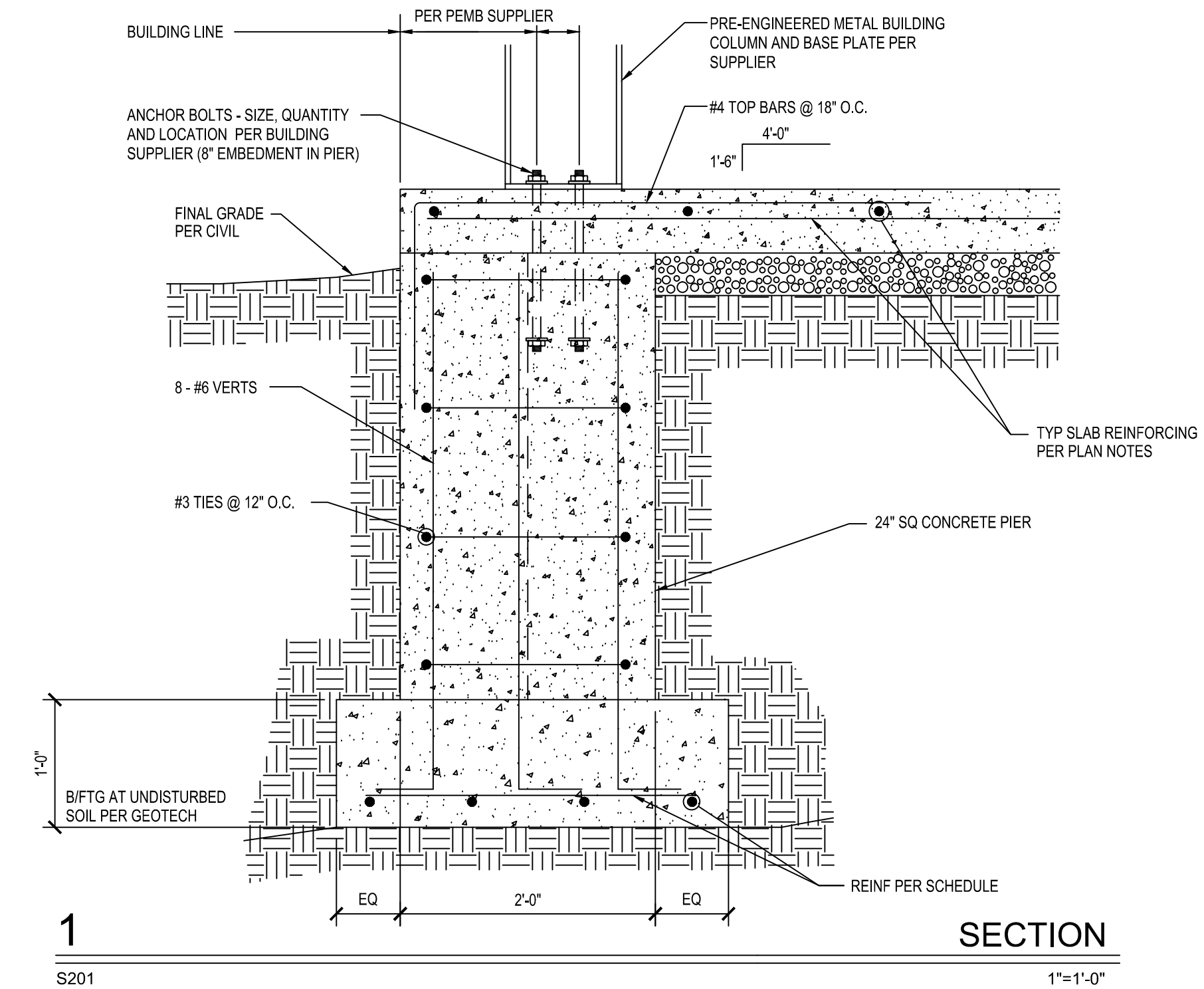
- CURE CONCRETE SLABS WITH MINIMUM 30% SOLIDS, LIQUID MEMBRANE CURING COMPOUND APPLIED WITHIN TWO HOURS AFTER COMPLETION OF FINISHING. ALTERNATIVELY, APPLY CONTINUOUS MOIST CURING FOR A MINIMUM OF SEVEN DAYS. DO NOT APPLY MEMBRANE CURING COMPOUND ON SURFACES TO RECEIVE FINISHES THAT ARE INCOMPATIBLE WITH THE CURING PRODUCT.

TESTING AND INSPECTION:

- AN INDEPENDENT TESTING LABORATORY (ITL) SHALL BE RETAINED THAT IS QUALIFIED TO INSPECT AND TEST CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROGRAM:
  - SLUMP: ASTM C 143; ONE TEST FOR EACH CONCRETE LOAD AT POINT OF DISCHARGE.
  - AIR CONTENT: ASTM C 173; ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH CYLINDERS.
  - TEMPERATURE: FOR EACH LOAD, AT POINT OF DISCHARGE, TEST WHEN AIR TEMPERATURE IS BELOW 40 DEG. F AND ABOVE 80 DEGREES F, AND EACH TIME A SET OF COMPRESSIVE STRENGTH CYLINDERS IS MADE.
  - COMPRESSIVE STRENGTH: ASTM C 31; ONE SET OF 4 STANDARD CYLINDERS FOR EACH 100 C.Y. OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACES IN ANY ONE DAY OR FOR EACH 10,000 S.F. OF SURFACE AREA PLACED. TEST ONE CYLINDER AT 7 DAYS, TWO AT 28 DAYS, WITH ONE HELD IN RESERVE.
  - RECORD OF TEST RESULTS SHALL BE SUBMITTED BY THE ITL TO THE CONTRACTOR AND ARCHITECT.

REINFORCING STEEL SHOP DRAWINGS:

- SUBMIT DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT IN COMPLIANCE WITH ACI SP-66. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.



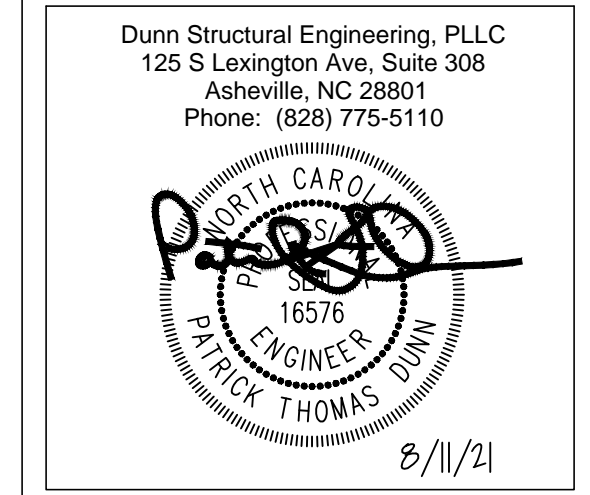
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8/11/21

No.	Description	Date

HCPS  
WAREHOUSE  
BUILDING  
246 Education Dr  
Flat Rock, NC 28731

General Notes &  
Typical Details  
Project number: 21010  
Date: 11 August, 2021  
Drawn by: PTD  
Checked by: PTD  
Scale: S001



No.	Description	Date

**HCPS  
 WAREHOUSE  
 BUILDING**

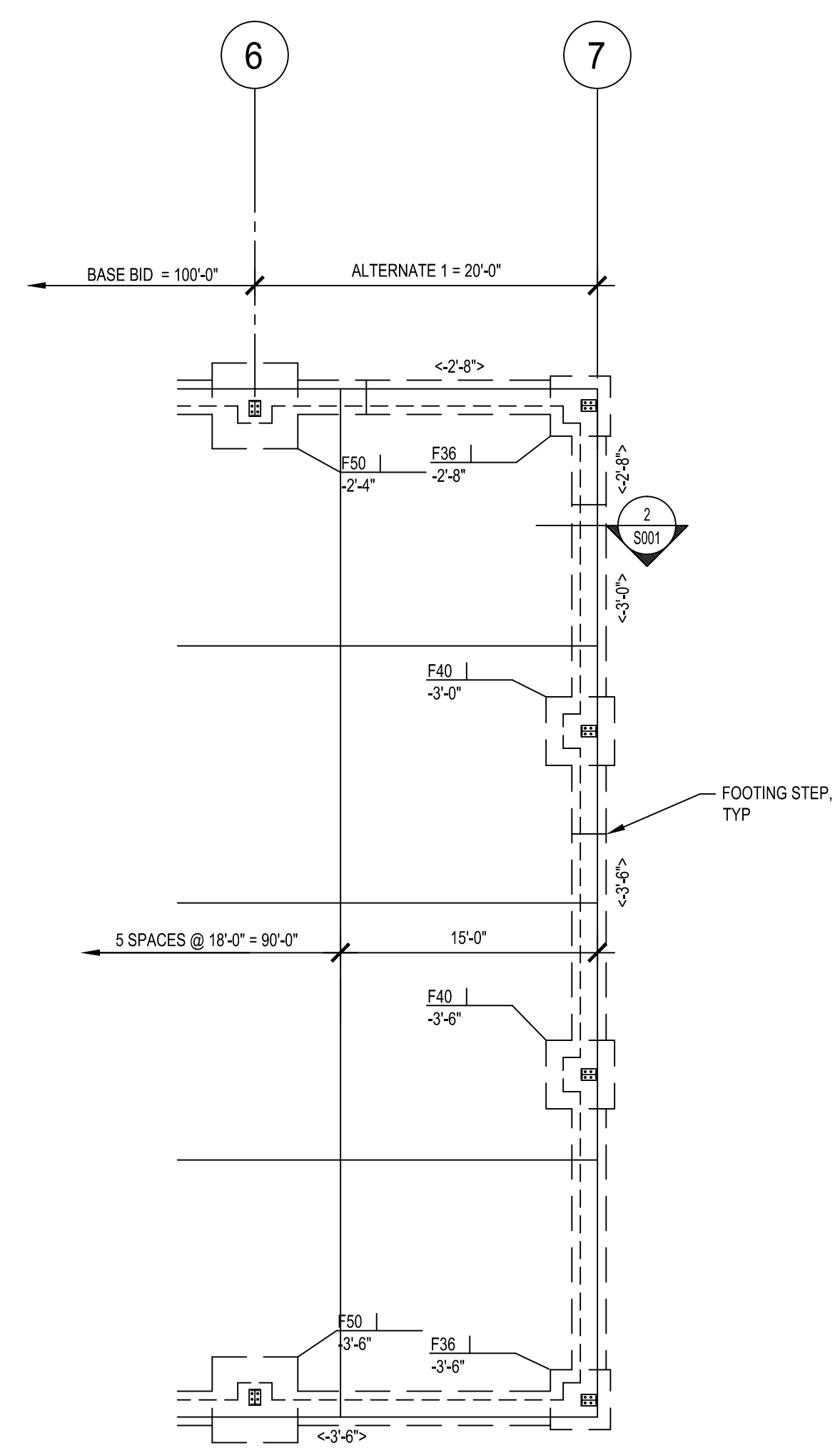
246 Education Dr  
 Flat Rock, NC 28731

Foundation  
 Plan

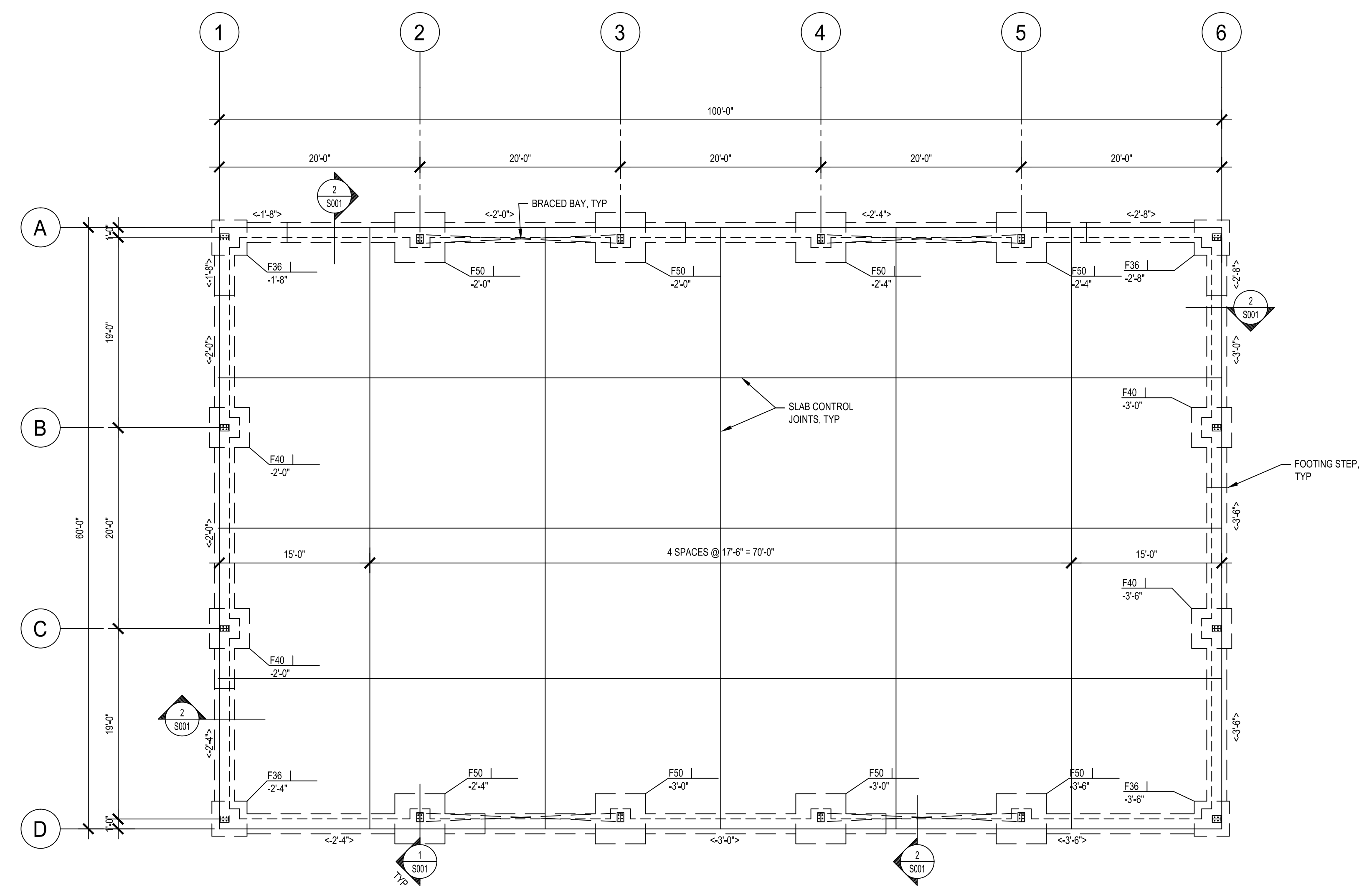
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Date	11 August, 2021
Drawn by	PTD
Checked by	PTD

**S101**

Scale



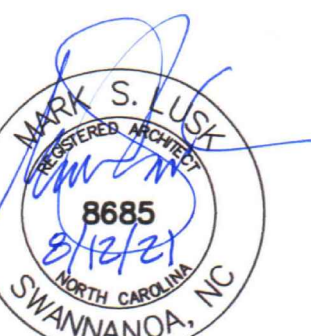
**ALTERNATE 1 FOUNDATION PLAN**  
 1/8"=1'-0"



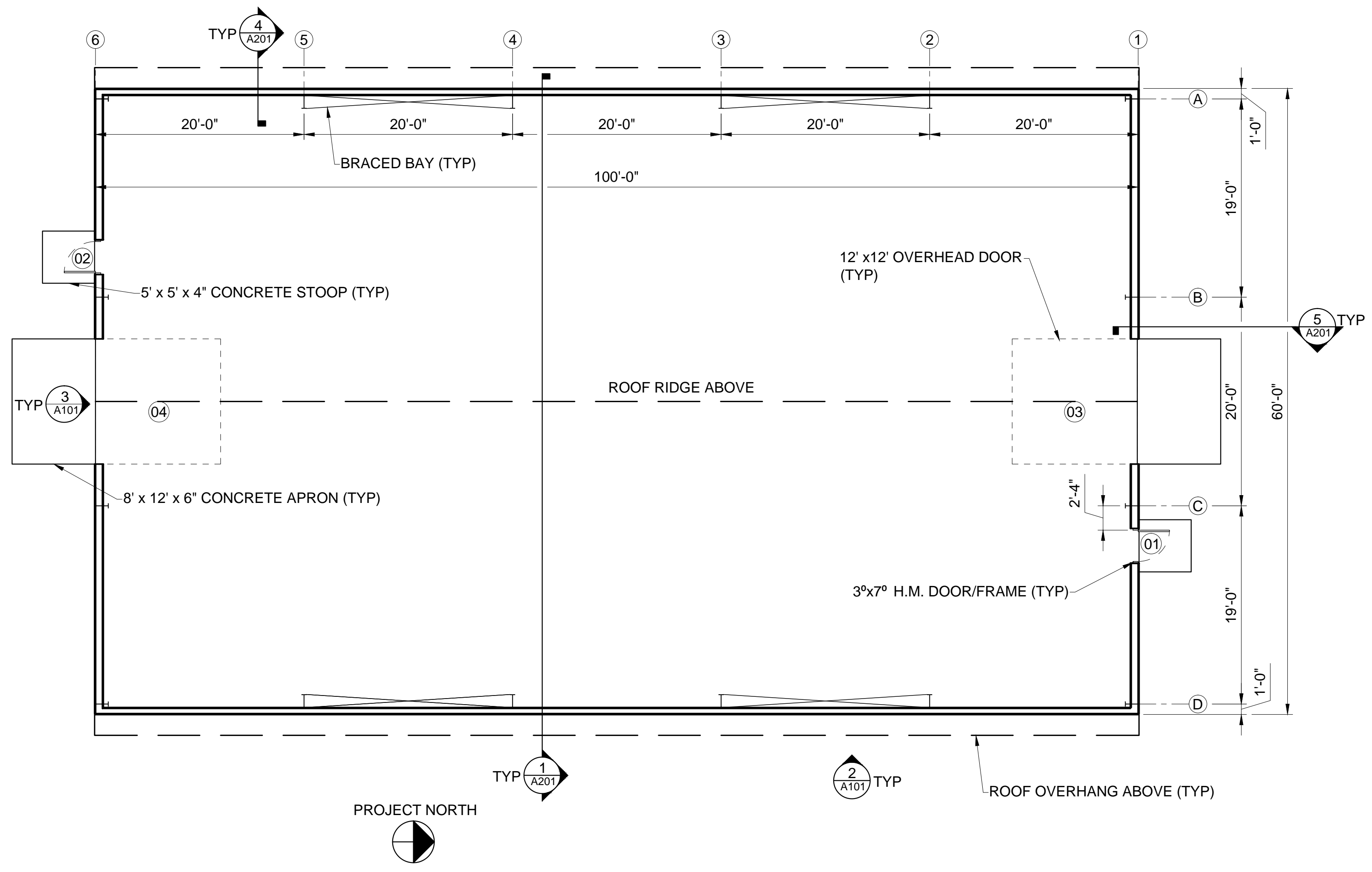
COLUMN FOOTING SCHEDULE			
MARK	DIM. (SQUARE) U.N.O.	THICKNESS	REINFORCEMENT EA. WAY (BOT)
F36	3'-6"	1'-0"	4#4
F40	4'-0"	1'-0"	5#4
F50	5'-0"	1'-0"	6#5

**FOUNDATION PLAN**  
 1/8"=1'-0"

- PLAN NOTES:**
- TOP OF SLAB ELEVATION AT 0'-0" (DATUM ELEVATION). ALL OTHER ELEVATIONS ARE REFERENCED AS + OR - FROM DATUM.
  - TYPICAL SLAB ON GRADE IS 6" THICK, 3000 PSI NORMAL WEIGHT CONCRETE REINFORCED w/ #4 @ 18" O.C. EACH WAY AT SLAB MID-DEPTH ON MIN. 10 MIL VAPOR BARRIER OVER 4" OF #57 STONE DRAINAGE COURSE.
  - COORDINATE WITH OTHER DISCIPLINES AND TRADES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, RECESSES, SLEEVES AND PIPING.
  - SEE SHEET S001 FOR GENERAL NOTES AND TYPICAL DETAILS PERTAINING TO THIS PLAN. NOTES AND DETAILS SHOWN THEREIN ARE NOT INDICATED ON PLAN, BUT DEFINE GENERAL DESIGN CRITERIA AND TYPICAL CONSTRUCTION CONDITIONS OCCURRING THROUGHOUT THE WORK.
  - LOCATION OF ANCHOR BOLTS AND BASE PLATES PER PEMB SUPPLIER.
  - PRIOR TO EXCAVATION AND FABRICATION OF REINFORCING, THE CONTRACTOR SHALL PROVIDE THE SUPPLIER'S COLUMN REACTIONS TO THE ENGINEER FOR VERIFICATION OF THE FOUNDATION SYSTEM.
  - LOCATE FOOTING STEPS TO MAINTAIN FROST DEPTH AND IN COORDINATION WITH FINAL GRADING PLANS.



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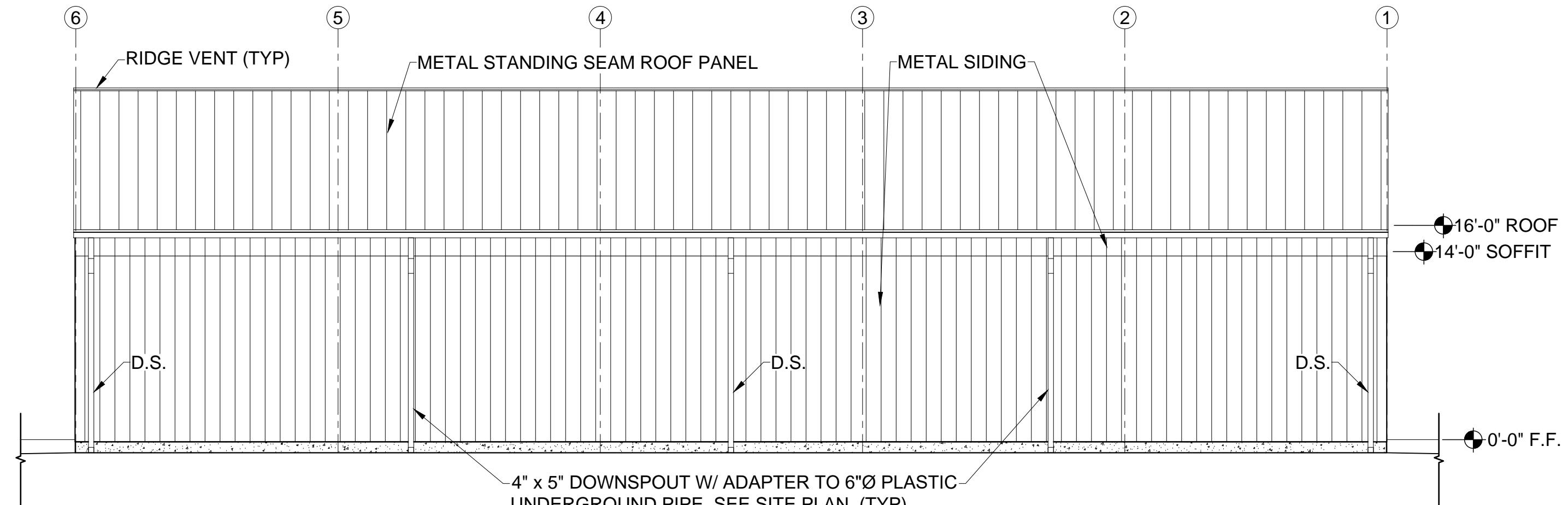
1 FLOOR PLAN  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

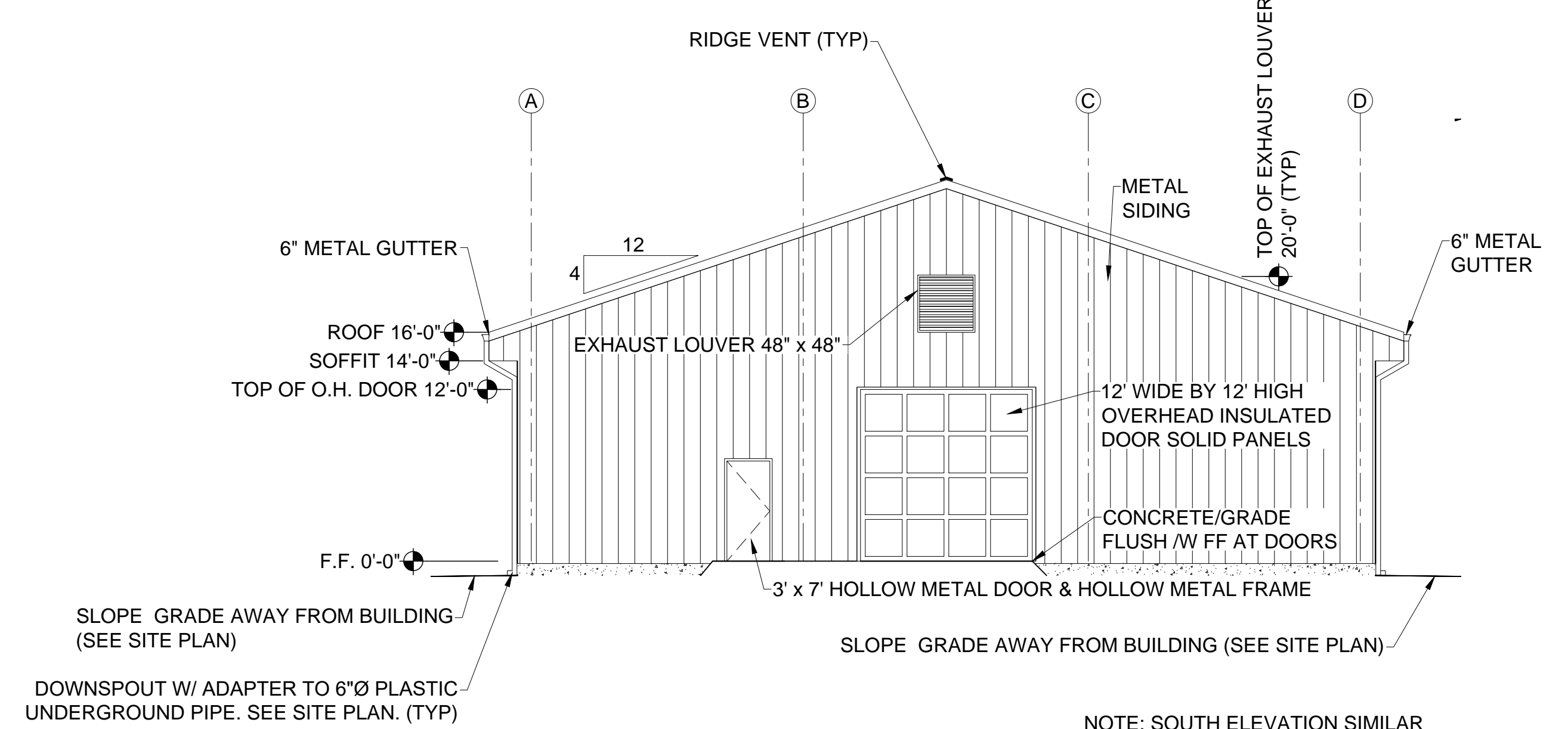
1. INSULATE EXTERIOR WALLS AND ROOF.
2. PROVIDE NC SEAL ENGINEERED DOCUMENTS BY PRE-ENGINEERED BUILDING SUPPLIER.

**FINISH SCHEDULE NOTES:**

1. METAL PANELS & GUTTERS/D.S. SHALL BE PREFINISHED WITH PAINT COLOR SELECTED BY OWNER.
2. HOLLOW METAL FRAMES & DOORS SHALL RECEIVE PAINT FINISH.
3. PROVIDE A CLEAR PENETRATING SEALER FOR CONCRETE FLOORS.



2 EAST ELEVATION  
 SCALE: 1/8" = 1'-0"

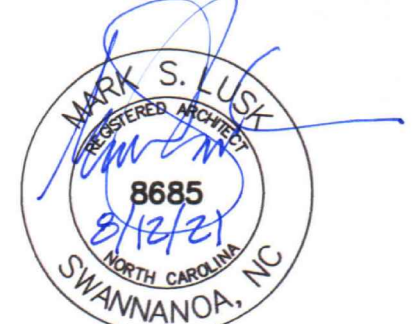


3 NORTH ELEVATION  
 SCALE: 1/8" = 1'-0"

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 Date: 8/11/21

**FLOOR PLAN &  
 ELEVATIONS**



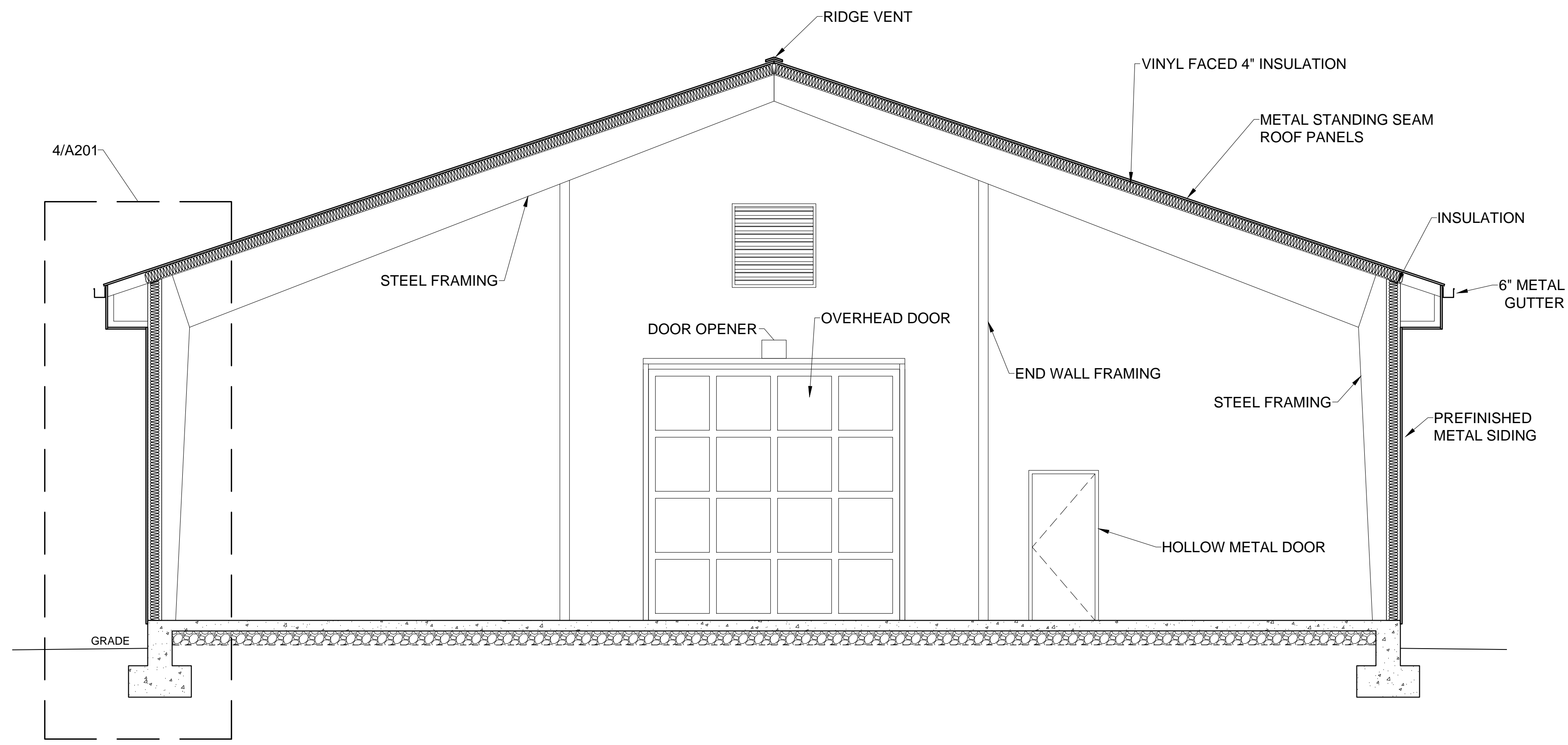
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Project Number: 21010

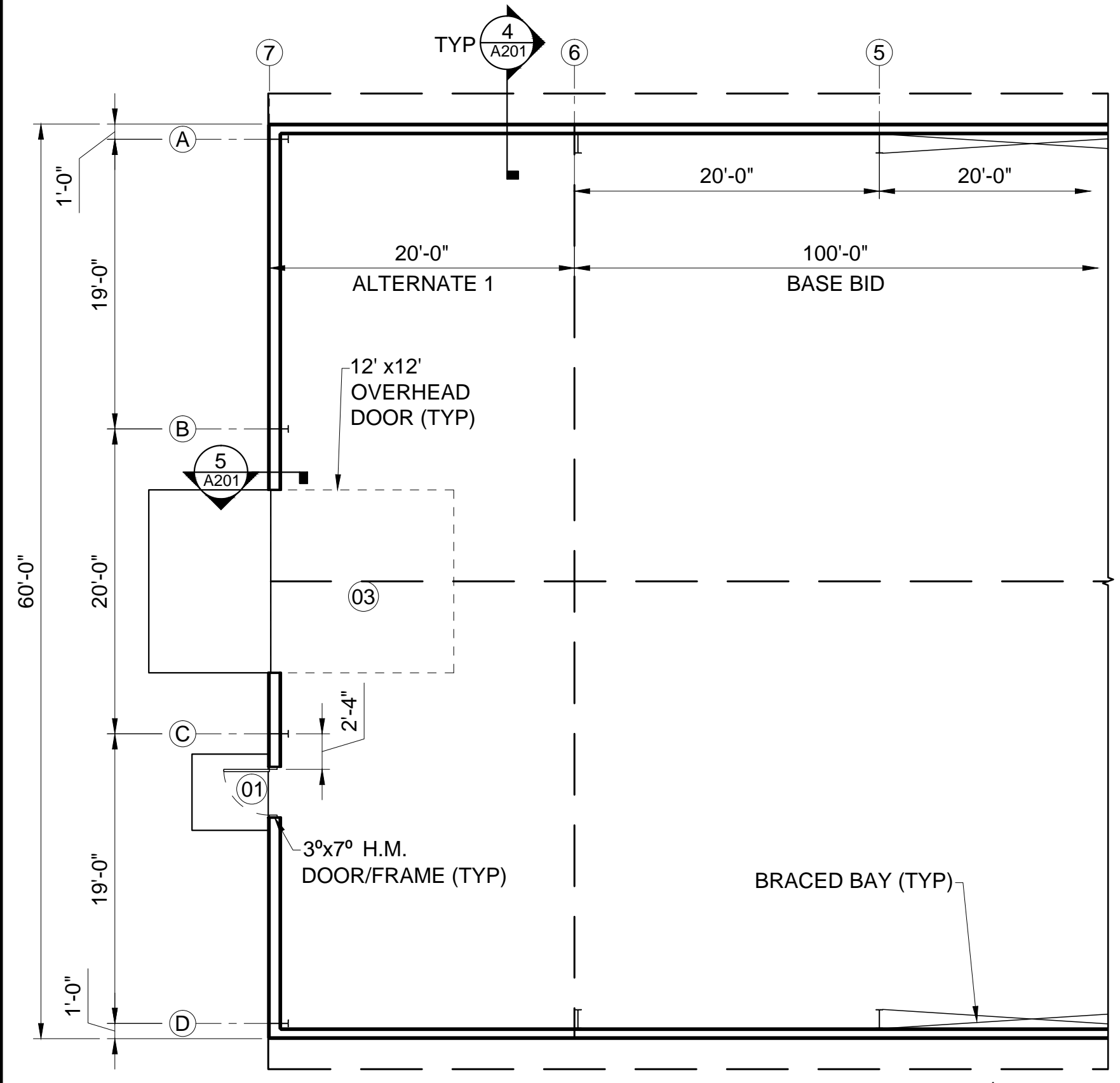
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**WALL  
 SECTIONS  
 & ALT 1**

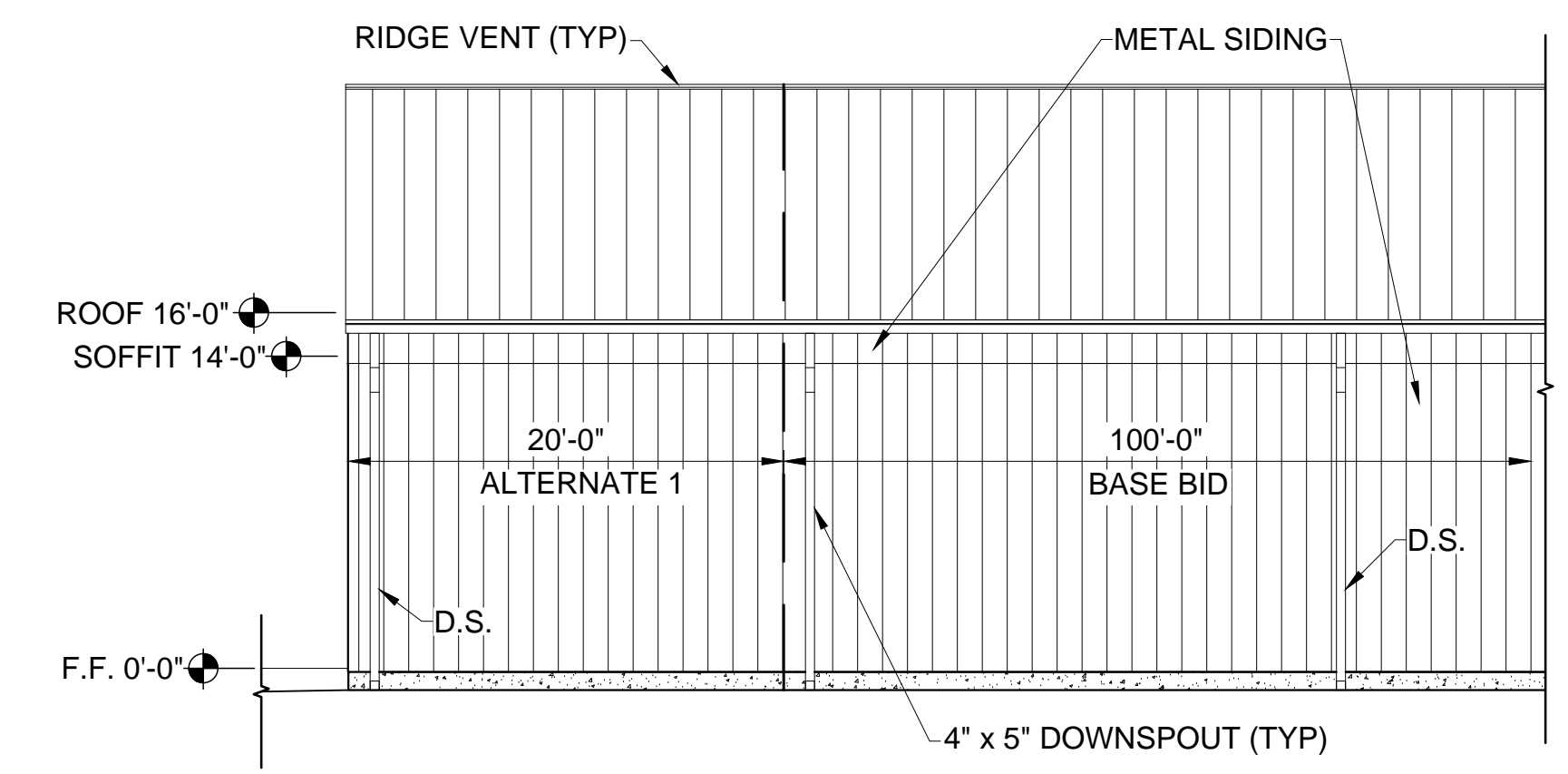
**A201**



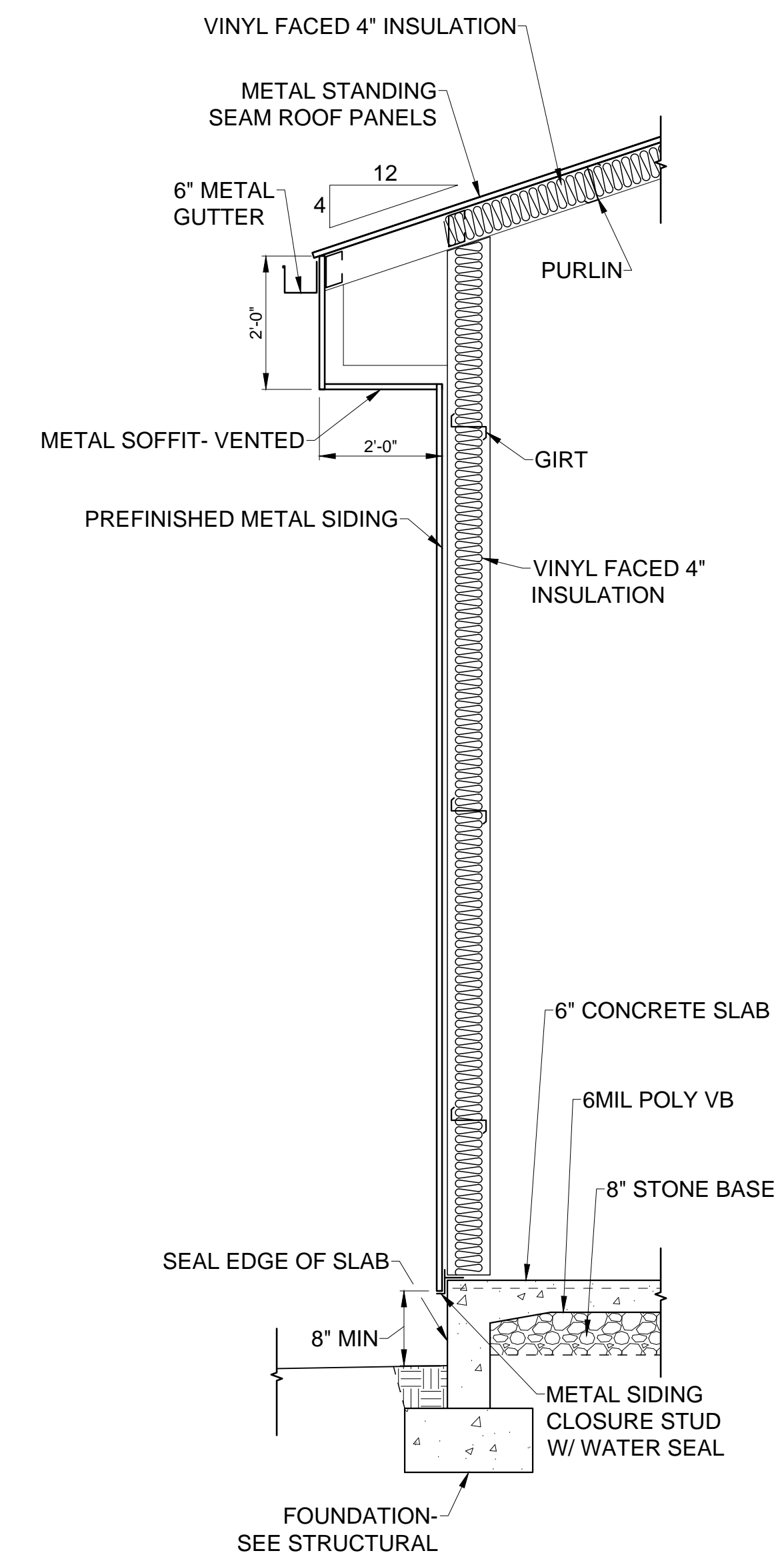
**1 BUILDING SECTION**  
 SCALE: 1/4" = 1'-0"



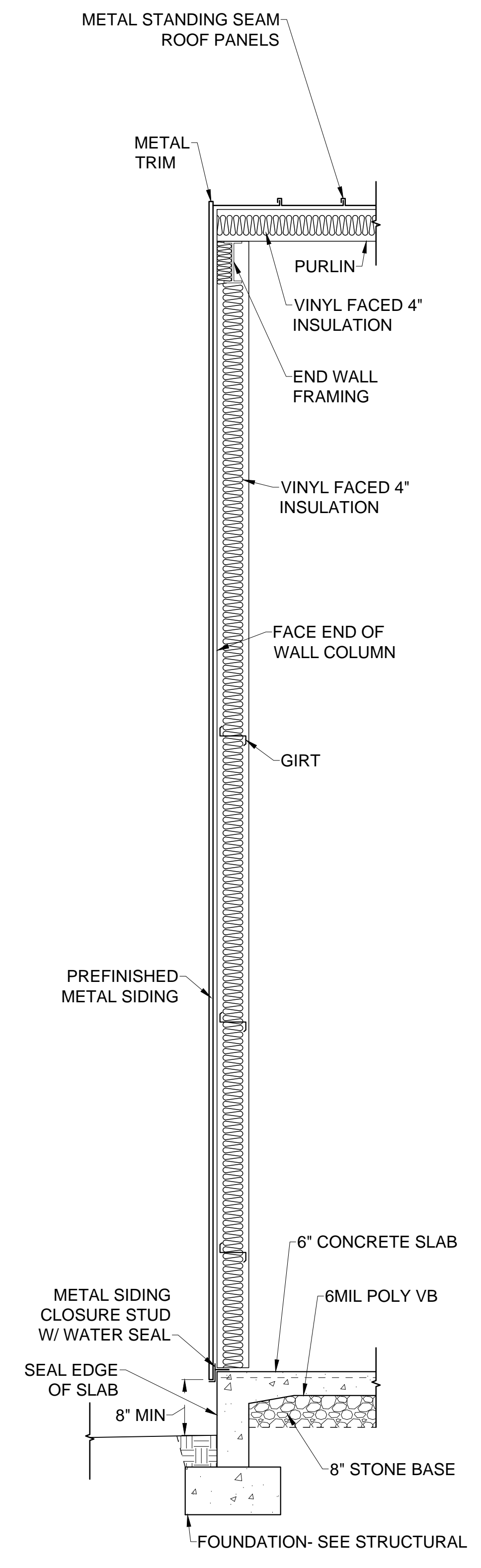
**2 ALTERNATE 1 FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"



**3 ALTERNATE 1 EAST ELEVATION**  
 SCALE: 1/8" = 1'-0"

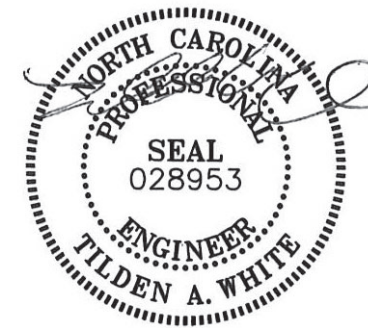


**4 WALL SECTION**  
 SCALE: 1/2" = 1'-0"



**5 WALL SECTION**  
 SCALE: 1/2" = 1'-0"

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8-11-2021

## ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	JUNCTION BOX PER N.E.C.
	HOMERUN - PANEL DESIGNATION AND CIRCUIT NUMBER
	SINGLE POLE SWITCH - 20A - 120/277V - MOUNT 46" A.F.F. TO BOTTOM
	DIMMER SWITCH
	THREE-WAY SWITCH - 20A - 120/277V - MOUNT 46" A.F.F. TO BOTTOM
	INDICATES SWITCHES ARE TO PROVIDE MULTIPLE LIGHT LEVELS (INBOARD, OUTBOARD SWITCHING OF LAMPS)
	115 OR 277 VOLT MOTOR AS NOTED ON PLANS
	FUSED OR NON-FUSIBLE HEAVY DUTY DISCONNECT SWITCH - BY DIVISION 16
	2-POLE OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION.
	WALL MOUNTED OCCUPANCY SENSOR, SOUND AND MOTION ACTIVATED - SENSOR SWITCH WSX-PDT (WSX-PDT-2P FOR TOILET ROOMS)
	CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL STAGE ILLUMINATION - NLIGHT RCMS-PS150-PDT-10-AR-G2 - VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURERS CUT SHEETS BEFORE BEGINNING ANY WORK.
	STANDARD 20A OUTLET - NEMA 5-20R DUPLEX. MOUNT 16" A.F.F. "GFI" DENOTES GROUND FAULT TYPE, NON-FEED THRU, "EWC" DENOTES OUTLET FOR ELECTRIC WATER COOLER - COORDINATE LOCATION WITH PLUMBING CONTRACTOR - NEMA 5-20R DUPLEX "WP" DENOTES WEATHERPROOF IN USE NEMA 5-20R DUPLEX, "ACT" DENOTES MOUNTED ABOVE COUNTER TOP OR BACKSPLASH, "BB" DENOTES MOUNTED ON THE BACKSIDE OF THE BAR JUST BENEATH THE BARTOP TYPICAL FOR RESTAURANTS AND BARS, "TR" DENOTES TAMPER RESISTANT, "USB" DENOTES LEGRAND TM826USB.
	TWO STANDARD 20A OUTLETS IN A 2-GANG BOX - NEMA 5-20R DUPLEX - COMMON COVER PLATE - MOUNT 16" A.F.F. TO BOTTOM OF DEVICE.
	STANDARD 20A OUTLET IN FLOOR BOX - NEMA 5-20R DUPLEX - LEGRAND WIREMOLD RFB2 FLOOR BOX.
	TELEPHONE/DATA OUTLET MTD. 16" AFF TO BOTTOM. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
	CABLE TV OUTLET MTD. 16" AFF TO BOTTOM OR AS INDICATED. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
	GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM, PER N.E.C.
	SPECIAL POWER OUTLET.

## WIRING DEVICE NOTES

- Switches shall be Hubbell CS115 or equivalent and receptacles shall be Hubbell CR20 or equivalent. Devices shall be white or as directed by architect.
- Switches shall be as follows:
 

single pole 20 amp	CSB20AC1-1
3 way 20 amp	CSB20AC3-1
4 way 20 amp	CSB20AC4-1
motor starter switch	Square D type "K" series
- Duplex receptacle shall be as follows:
 

20 amp duplex	PS5362I
20 amp duplex-GFCI	2095IL
20 amp duplex-Weather GFI	2095TRWRI

Note: Duplex receptacles have nylon face and side wire type. Receptacles shall have brass contacts, brass terminal screws and green ground wire screw. GFCI receptacle shall be included with a trip indicator light.
- Coverplates shall be oversized stainless steel SSJX or as directed by architect.
- Outlet boxes shall not be mounted back-to-back.
- Receptacles shall be 20 amp unless 15 amp is required by equipment served.
- Weatherproof in use covers shall be clear equal to Leviton. For horizontal mount covers use part no. "5997-CL". For vertical mount covers use part no. "5977-CL".
- All outlets (including telephone and data) shall have cover plates.

## 2018 APPENDIX B BUILDING CODE SUMMARY: ELECTRICAL SYSTEM AND EQUIPMENT

**Method of Compliance:**  
Energy Code:  Prescriptive  Performance  
ASHRAE 90.1:  Prescriptive  Performance

**Lighting schedule(each fixture type)**

lamp type required in fixture	(see fixture schedule)
number of lamps in fixture	(see fixture schedule)
ballast type used in the fixture	(see fixture schedule)
number of ballasts in fixture	(see fixture schedule)
total wattage per fixture	(see fixture schedule)
total interior wattage (whole space allowable)	NOT TO EXCEED 15.5KW
total exterior wattage specified vs. allowed	NOT TO EXCEED 3720WATTS

**Additional Prescriptive Compliance:**

C406.2 :More Efficient Mechanical Equipment	<input checked="" type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance
C406.3 :Reduced Lighting Power Density	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance
C406.4 :Energy Recovery Ventilation System	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance
C406.5 :Higher Efficiency Service Water Heating	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance
C406.6 :On-Site Supply of Renewable Energy	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance
C406.7 :Automatic Daylighting Control Systems	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance

## BRANCH CIRCUIT CONDUCTOR SIZING TABLE

For circuits with branch circuit protection rated 20 amps or less, copper conductors shall be sized according to the following:

voltage	distance (ft)	home run (AWG)	remainder (AWG)
120	0 - 50	12	12
	50 - 90	10	12
	90 - 140	8	10
	140 +	6	10
240	0 - 95	12	12
	95 - 160	10	12
	160 - 250	8	10
	250 +	6	10

## LIGHTING FIXTURE SCHEDULE

TAG	TYPE					VOLTAGE	FIXTURE WATTS	LAMPS	MOUNTING					DESCRIPTION	MANUFACTURER & MODEL (OR EQUAL)			
	INCAND.	FLUOR.	LED	METAL HAL.	H.P.S.				OTHER	NUMBER	WATTS / TYPE	RECESSED	CEILING			PENDANT	WALL	LANDSCAPE
A			X				120	83	-	LED				X			LED HIGHBAY	LITHONIA IBE-12LM-MVOLT-40K
A/E			X				120	83	-	LED				X			LED HIGHBAY WITH REMOTE EMERGENCY BALLAST	LITHONIA IBE-12LM-MVOLT-40K
B			X				120	9	-	LED				X			LED EXTERIOR SCONCE	LITHONIA OLLWD LED-P1-40K-120-DOB
C			X				120	35	-	LED				X			LED WALLPACK	LITHONIA DSKW1-20C-700-40K-T2M-MVOLT-BB W-PE
X1			X				120	5	-	LED				X			LED EXIT SIGN W/ EM HEADS	LITHONIA LHQM-LED
X2			X				120	21	-	LED				X			EXTERIOR EMERGENCY LIGHT	LITHONIA AFN-DB-EXT

1. CONTRACTOR SHALL COMPLY WITH INSULATION CONTACT (IC) RATING FOR RECESSED FIXTURES WHERE INSULATION IS INSTALLED DIRECTLY ABOVE. CEILING (SEE ARCHITECTURAL SHEETS).

2. VERIFY MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION

## HCPS WAREHOUSE BUILDING

Project Number: 21010

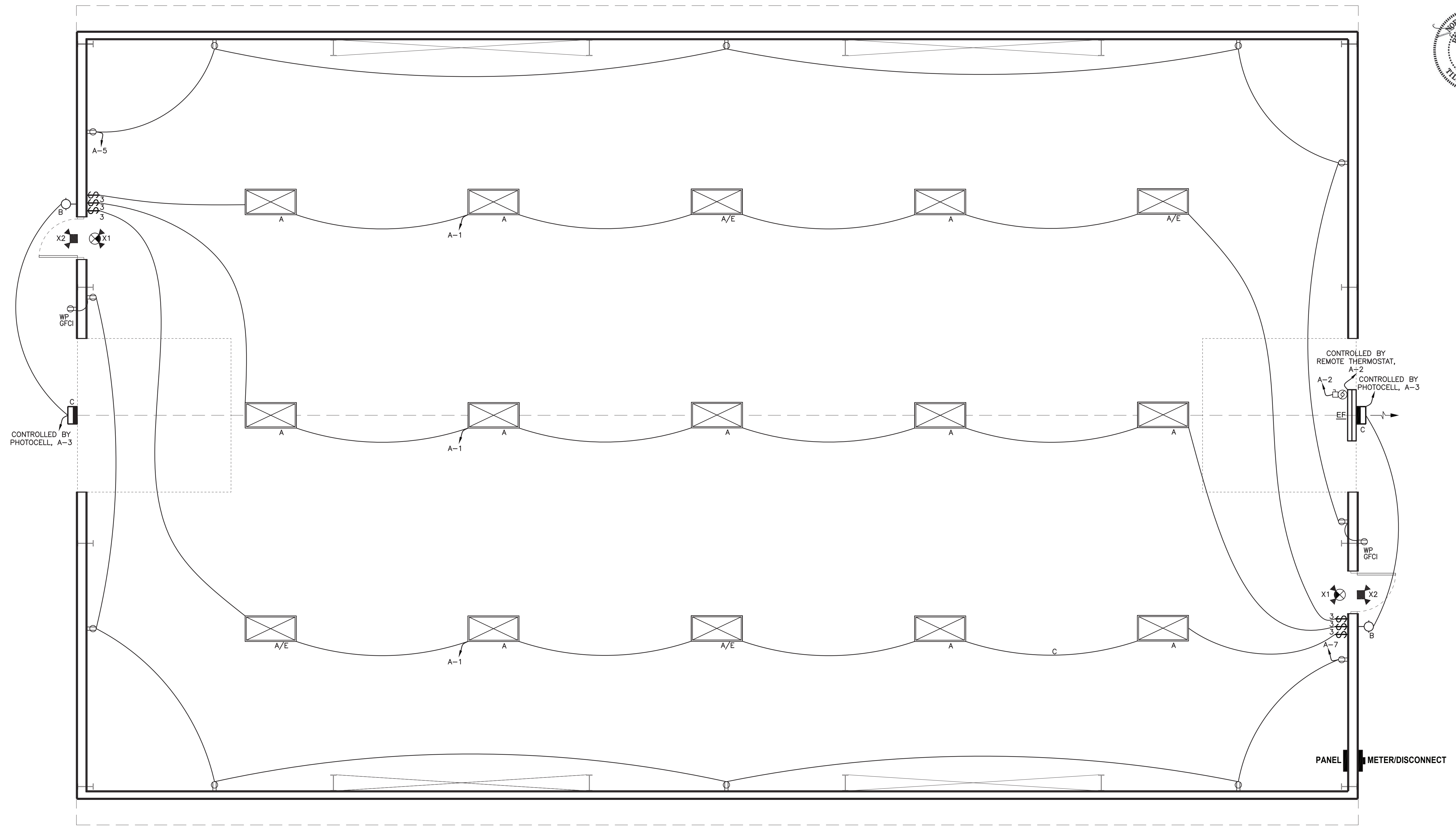
Drawn: MP  
Date: 8-11-21

## ELECTRICAL NOTES & SCHEDULES

E1



8-11-2021



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**ELECTRICAL  
 PLANS**

**1** ELECTRICAL PLANS  
**E2** SCALE: 1/4" = 1'-0"

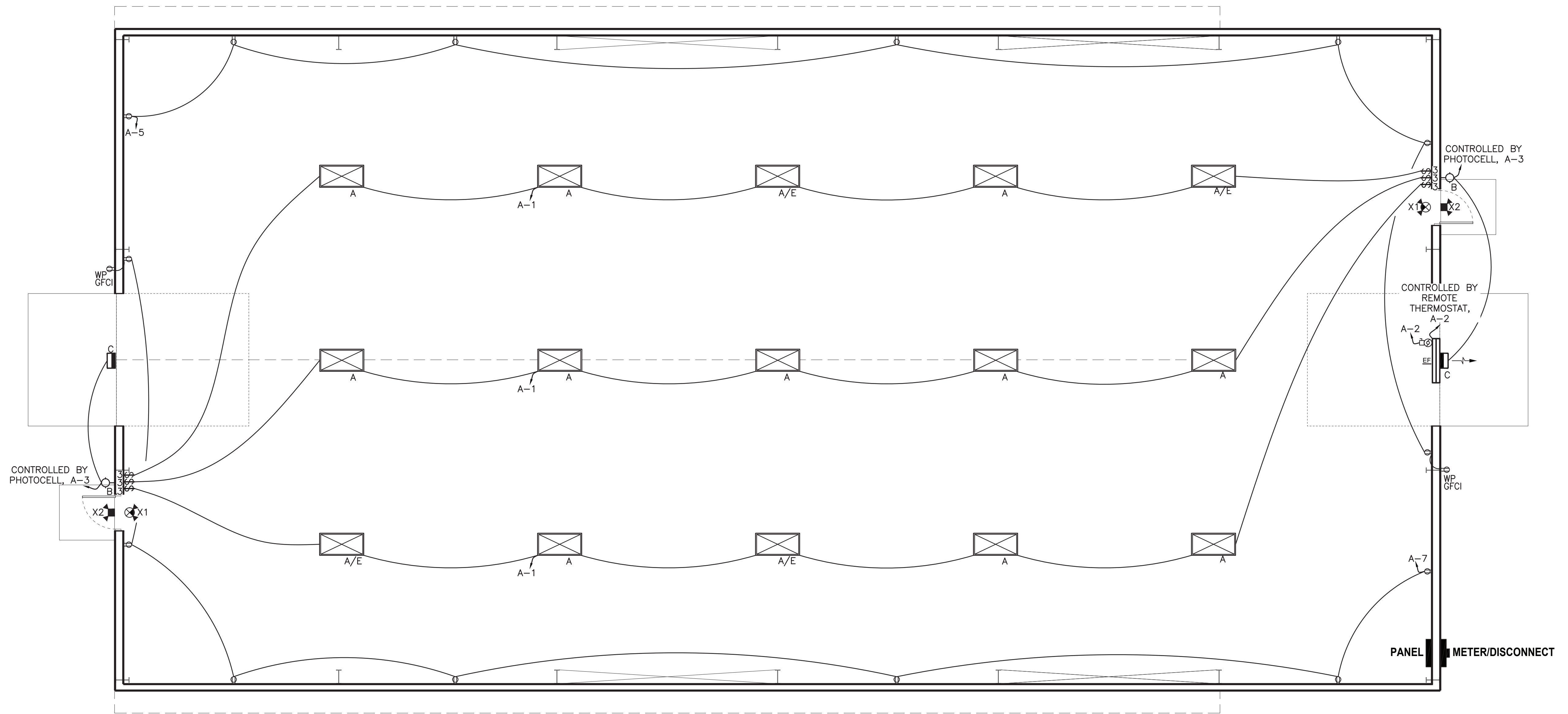
E2





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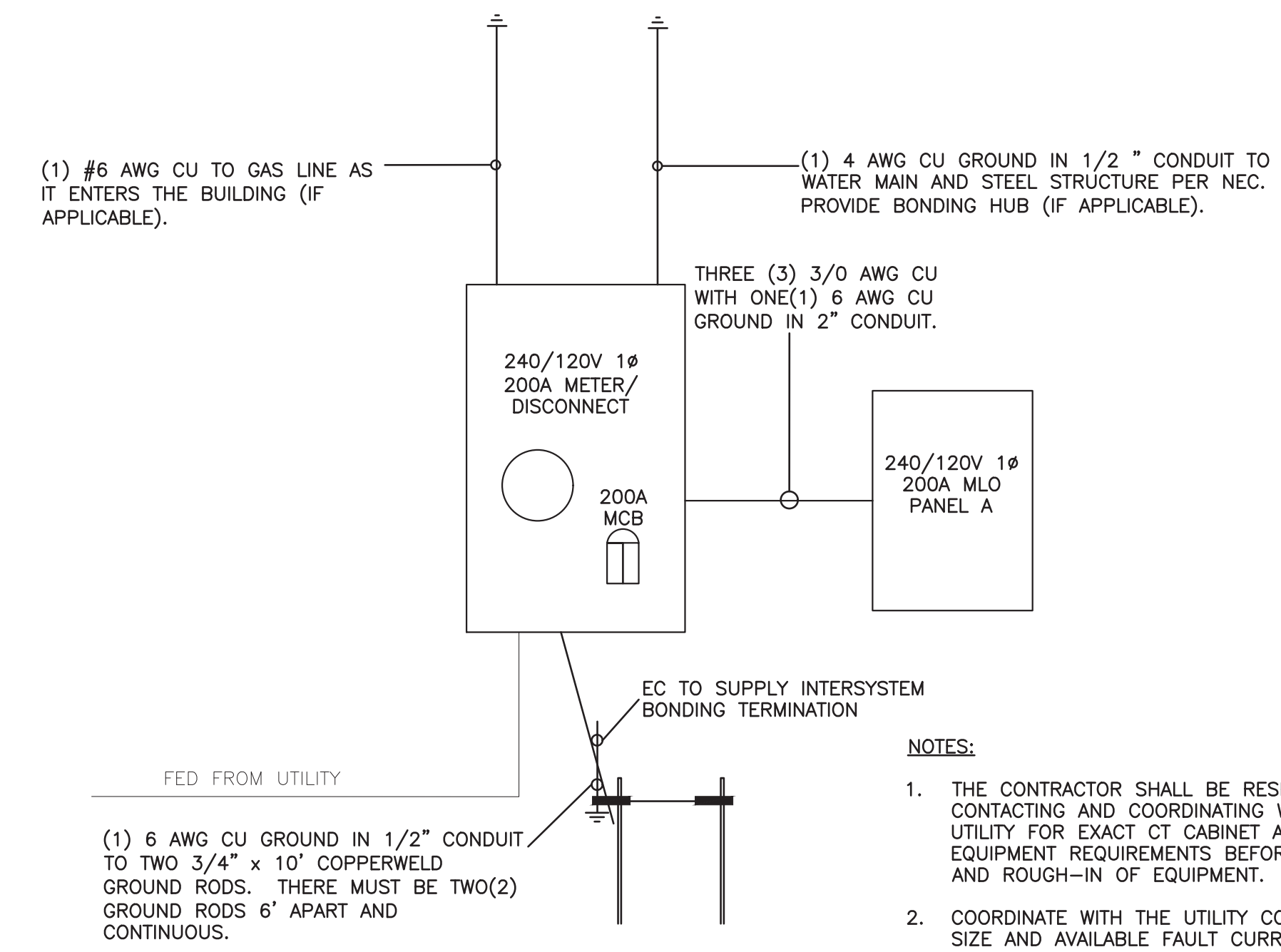
**ELECTRICAL  
 PLANS -  
 ALTERNATE 1**

**1** ELECTRICAL PLANS  
**E3** SCALE: 3/16" = 1'-0"

**E3**



8-11-2021



- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE LOCAL UTILITY FOR EXACT CT CABINET AND METERING EQUIPMENT REQUIREMENTS BEFORE THE PURCHASE OF AND ROUGH-IN OF EQUIPMENT.
  - COORDINATE WITH THE UTILITY CO. FOR TRANSFORMER SIZE AND AVAILABLE FAULT CURRENT RATING IN ORDER TO VERIFY FAULT CURRENT RATING OF EACH PANEL IS COORDINATED.
  - ANY CHANGES TO DESIGN MUST BE APPROVED BY ENGINEER BEFORE INSTALLATION BEGINS.

**1** RISER DIAGRAM  
 E3 SCALE: NOT TO SCALE

LOCATION: STORAGE AREA												PANEL: <b>A</b>								
MANUFACT.: EATON												FED FROM: UTILITY								
MODEL: LOADCENTER												FULLY RATED 22000 AIC								
MOUNTING: WALL/SURFACE																				
		VOLTS			Ph		W													
		240 120			1 3															
CONN VA	#	LOAD	Ph	N	G	C	BKR	A	B	BKR	Ph	N	G	C	LOAD	#	CONN VA			
1245	1	LIGHTS	12	12	12	1/2	20			20	12	12	12	1/2	EF	2	1960			
90	3	EXT LIGHTS	12	12	12	1/2	20									4	0			
1260	5	REC	12	12	12	1/2	20									6	0			
1260	7	REC	12	12	12	1/2	20									8	0			
0	9															10	0			
0	11															12	0			
0	13															14	0			
0	15															16	0			
0	17															18	0			
0	19															20	0			
0	21															22	0			
0	23															24	0			
0	25															26	0			
0	27															28	0			
0	29															30	0			
0	31															32	0			
0	33															34	0			
0	35															36	0			
0	37															38	0			
0	39															40	0			
0	41															42	0			
21		SUBTOTAL AMPS Ph A																SUBTOTAL AMPS Ph A		16
11		SUBTOTAL AMPS Ph B																SUBTOTAL AMPS Ph B		0
		MAIN BREAKER:																		
		MAIN LUGS:																200 AMPS (MIN)		
		BUS AMPACITY:																200 AMPS (MIN)		
LOAD		CONNECTED		DF		DEMAND												VA ph A		4465
LIGHTING		1335		125		1669												VA ph B		1350
A/C		0		100		0												TOTAL		5.8 kVA
HEATING		0		100		0														
NON-VENT MOTORS		0		100		0														
VENTILATION		1960		100		1960														
KITCHEN		0		100		0														
RECEPTACLES		2520		100		2520														
MISCELLANEOUS		0		100		0														
FUTURE		0		100		0														
TOTAL		5815		6149 (VA)		26 (AMPS)														

- NOTES:**
- PANEL SHALL BE PROVIDED WITH A FULL NEUTRAL.
  - PANEL BUSSING MATERIAL SHALL BE CU.
  - PROVIDE A FULLY RATED GROUND BUS.
  - \*BKR\* INDICATES HACR RATED CIRCUIT BREAKER.
  - \*BKR\* INDICATES AFCI TYPE CIRCUIT BREAKER.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CU.

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**RISER  
 DIAGRAM &  
 PANEL  
 SCHEDULE**

**E4**

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