

NEW VISIA LINIUM K13L3
PO BOX 21313

CLEVELAND, OHIO 44121

35299 DORCHESTER ROAD
CLEVELAND, OHIO 44040
440-346-3721

NEW GREENHOUSE AND PAVILION AT:

MAGNIFICAT HIGH SCHOOL
20770 HILLARD BLVD.

ROCKY RIVER, OHIO

DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF ROBERT OROVETS. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT OF ROBERT OROVETS.

-31-2025 REVIEW

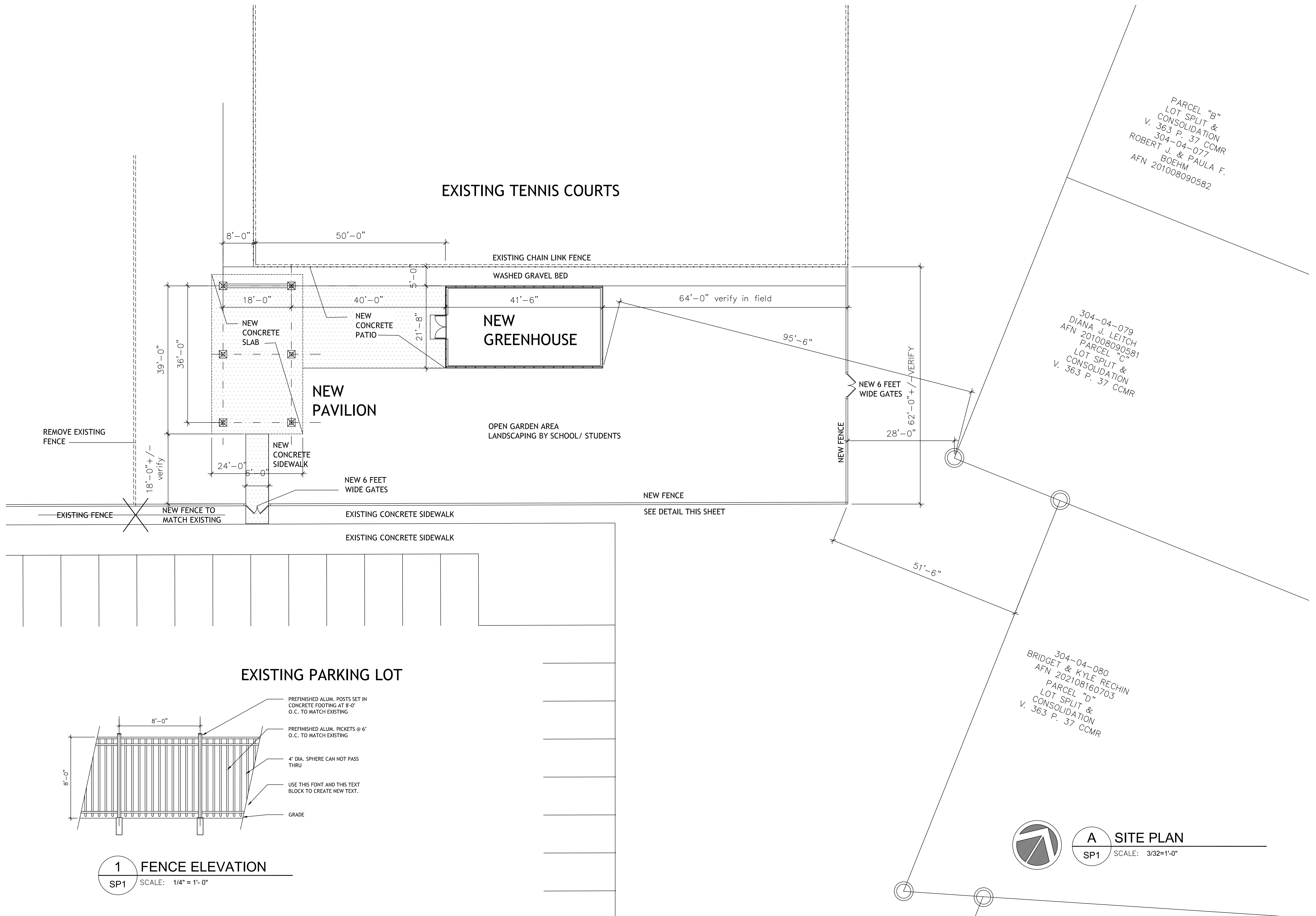
AWN BY:

CKED BY:

NUMBER

DB NUMBER

202520



PLUMBING FIXTURE SCHEDULE								
designation	description	mounting	hw	cw	san	vent	model	fixture
fd-1	floor drain (round)	floor	-	-	3"	1-1/2"	watts drainage model fd-200-b, cast iron body, adjustable 1/2" thick nickel bronze 6" round strainer	mechanical trap seal conforming to asse 1072 or trap primer
s-1	sink	counter	1/2"	1/2"	1-1/2"	1-1/2"	as provided by greenhouse manufacturer	

remarks

1. refer to specifications.

2. all plumbing fixtures shall have final approval by owner.

3. provide all stops, escutcheons, traps, hangers, etc. for complete working installation.
5. all public hand washing fixtures shall be equipped with a thermostatic mixing valve, watts guardian model lfusg-b, asse 1070, 0.5-2.5 gpm.

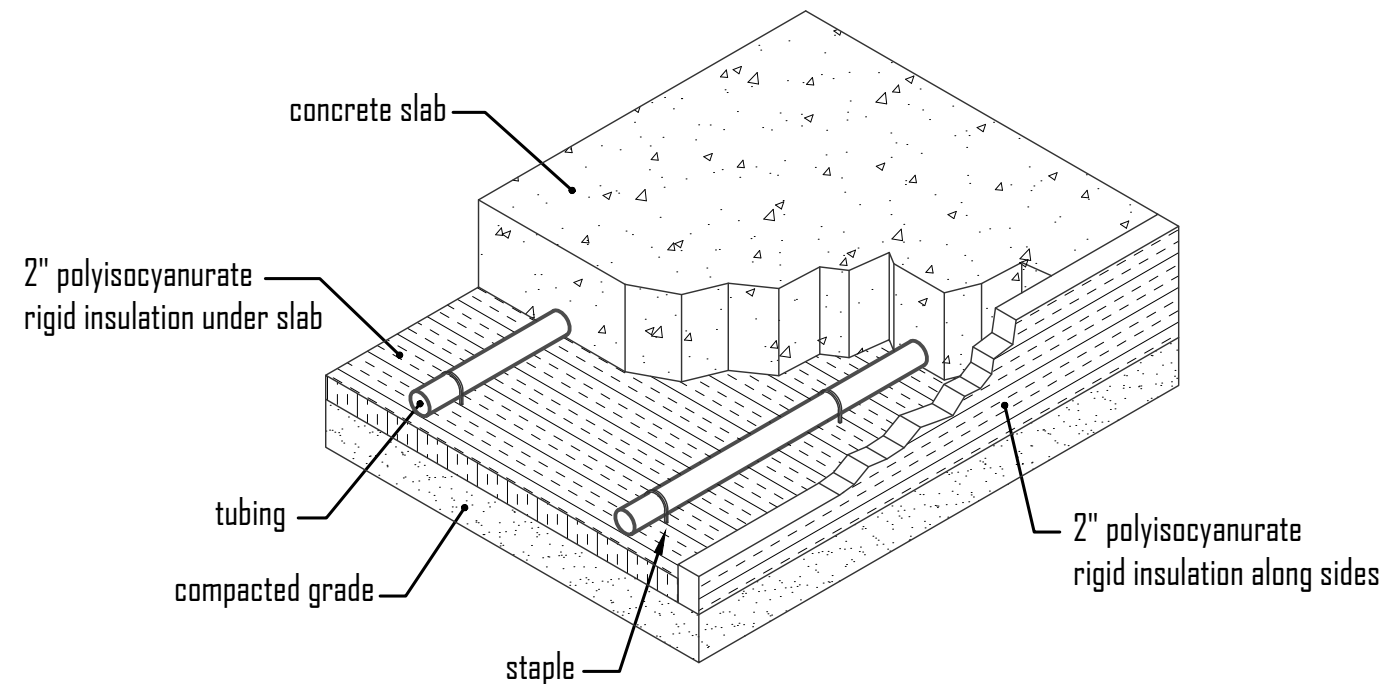
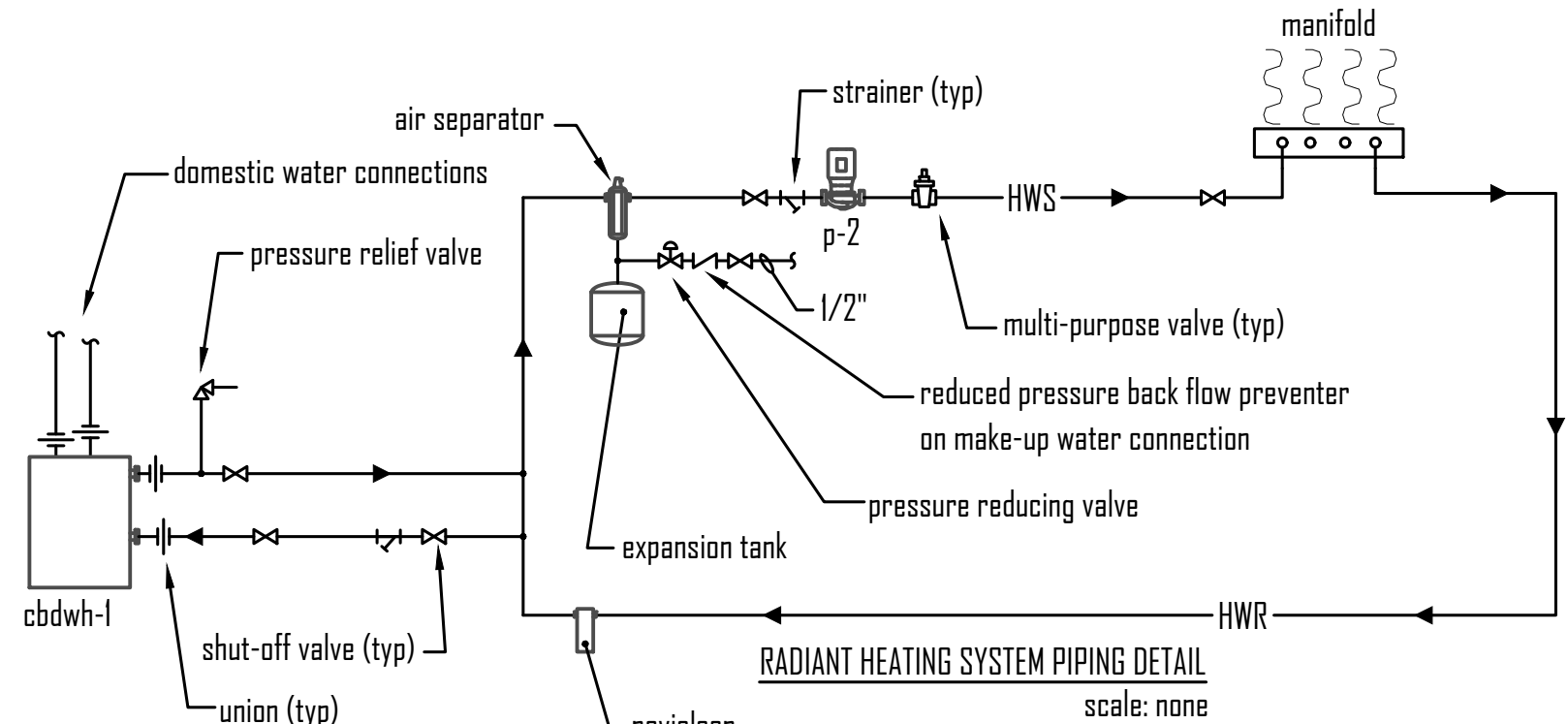
6. connection sizes are as designated unless indicated other wise on plans.

PLUMBING LEGEND	
ABBREVIATION	DESCRIPTION
	check valve
	shut off valve
	union
	existing piping
	existing piping to be removed
	remove to point and cap
	remove to point for reconnection
	floor drain/sink
	branch piping off bottom
	branch piping off top
	pipe drop
	pipe rise
	cold water piping
	gas piping
	hot water piping
	pump discharge piping
	sanitary sewer piping
	sanitary sewer piping below floor
	vent piping
	connect to existing
	down
	domestic water heater
	electrical contractor
	existing to remain
	floor sink
	indirect waste
	mechanical contractor
	plumbing contractor
	typical
	typical of three

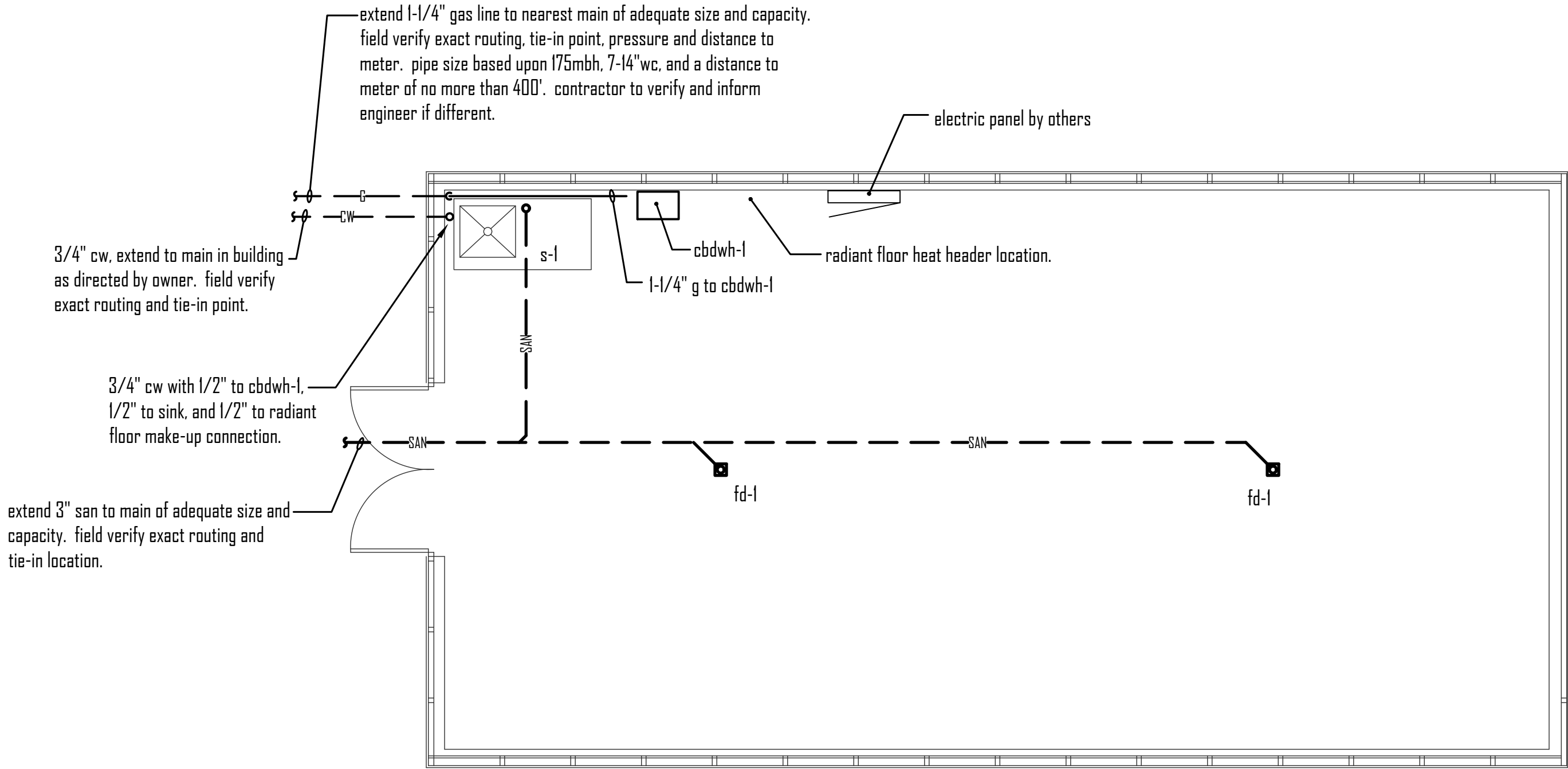
COBINATION BOILER DOMESTIC WATER HEATER SCHEDULE	
mark	cbdwh-1
type	tankless
fuel	natural gas
input (mbh)	175
domestic flow rate @ 45°F rise (gpm)	7.9
space heating capacity (mbh)	140
maximum working pressure (psi)	150
flue size (inches)	3/3
electrical data (voltage/phase)	120/1
manufacturer	navien
model number	nfc-250/175h
operating weight (pounds)	170
remarks	1,2,3,4

remarks

1. adjust heater such that maximum leaving water temperature is 120°F
2. direct vent, sealed combustion
3. concentric vent kit
4. condensate neutralizer kit



note: contractor shall secure tubing to foam by staples utilizing the manufacturer's recommended equipment and staples. secure a minimum of every three feet on straight runs; on 180° turns place one staple at the top of the arc and one 12" away on each side.



extend 3" san to main of adequate size and capacity. field verify exact routing and tie-in location.

3/4" cw with 1/2" to cbdwh-1, 1/2" to sink, and 1/2" to radiant floor make-up connection.

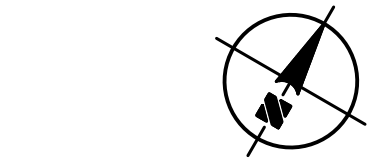
3/4" cw. extend to main in building as directed by owner. field verify exact routing and tie-in point.

extend 1-1/4" gas line to nearest main of adequate size and capacity. field verify exact routing, tie-in point, pressure and distance to meter. pipe size based upon 175mbh, 7-14" wc, and a distance to meter of no more than 400'. contractor to verify and inform engineer if different.

electric panel by others

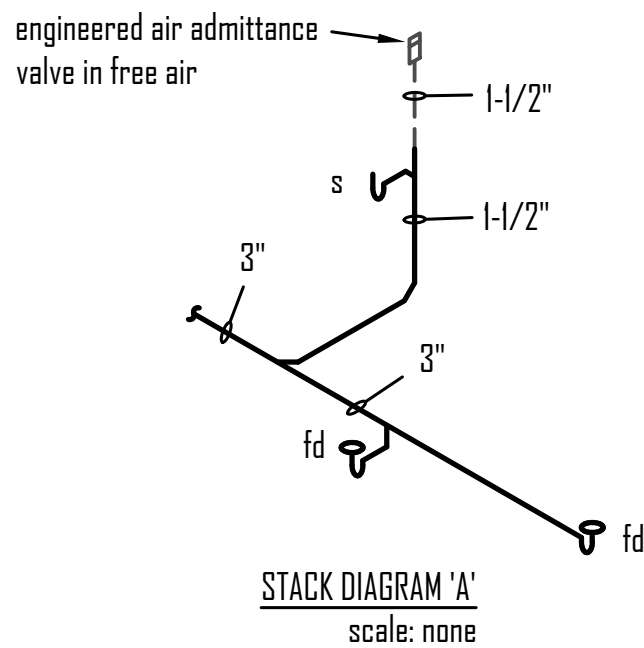
radiant floor heat header location.

1-1/4" g to cbdwh-1



PLUMBING PLAN

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



engineered air admittance valve in free air

s

1-1/2"

1-1/2"

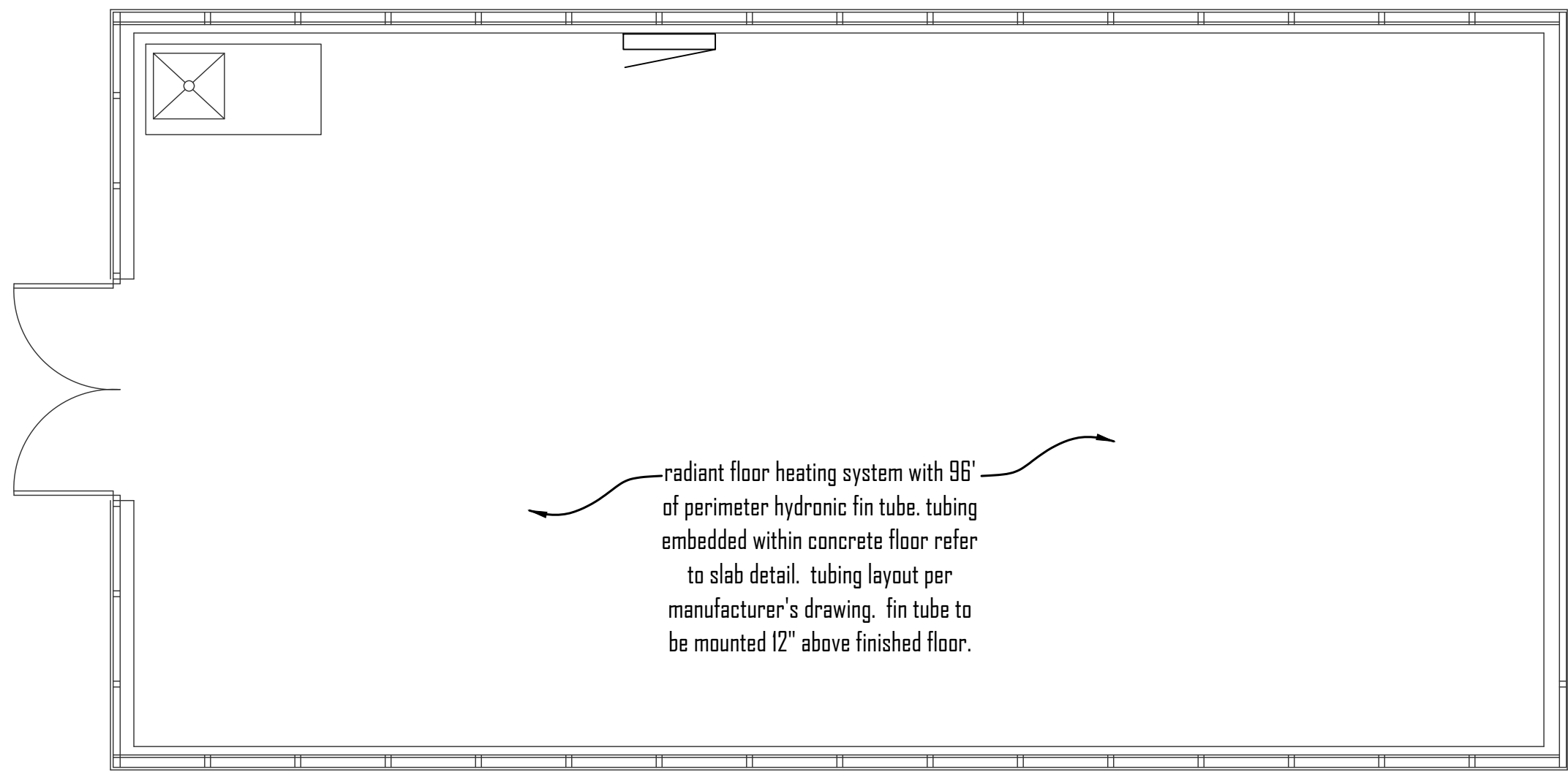
3"

3"

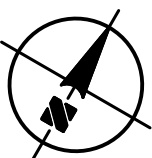
fd

STACK DIAGRAM 'A'

scale: none

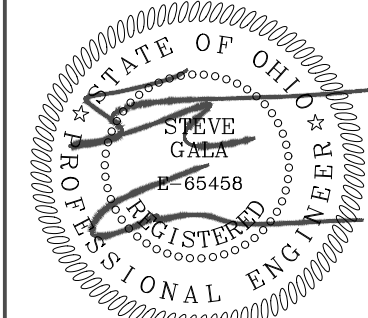


radiant floor heating system with 96' of perimeter hydronic fin tube. tubing embedded within concrete floor refer to slab detail. tubing layout per manufacturer's drawing. fin tube to be mounted 12" above finished floor.



MECHANICAL HVAC PLAN

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



STEVEN J. GALA

LICENSE # 65458

EXPIRATION 12-31-2025

ROBERT OROVETS ARCHITECT

33299 DORCHESTER ROAD

CLEVELAND, OHIO 44040

440-246-3721

PROJECT TITLE
NEW GREENHOUSE AND PAVILION AT:
MAGNIFICAT HIGH SCHOOL

20770 HILLARD BLVD.
ROCKY RIVER, OHIO

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DATE:

8/28/25 For Permit

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na

CHECKED BY:

sq

SHEET NUMBER

M1

JOB NUMBER

25126

www.elementaleng.net

Ee

440.466.0087

elemental engineering llc

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ROCKY RIVER, OHIO

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GREENHOUSE SPECIFICATIONS

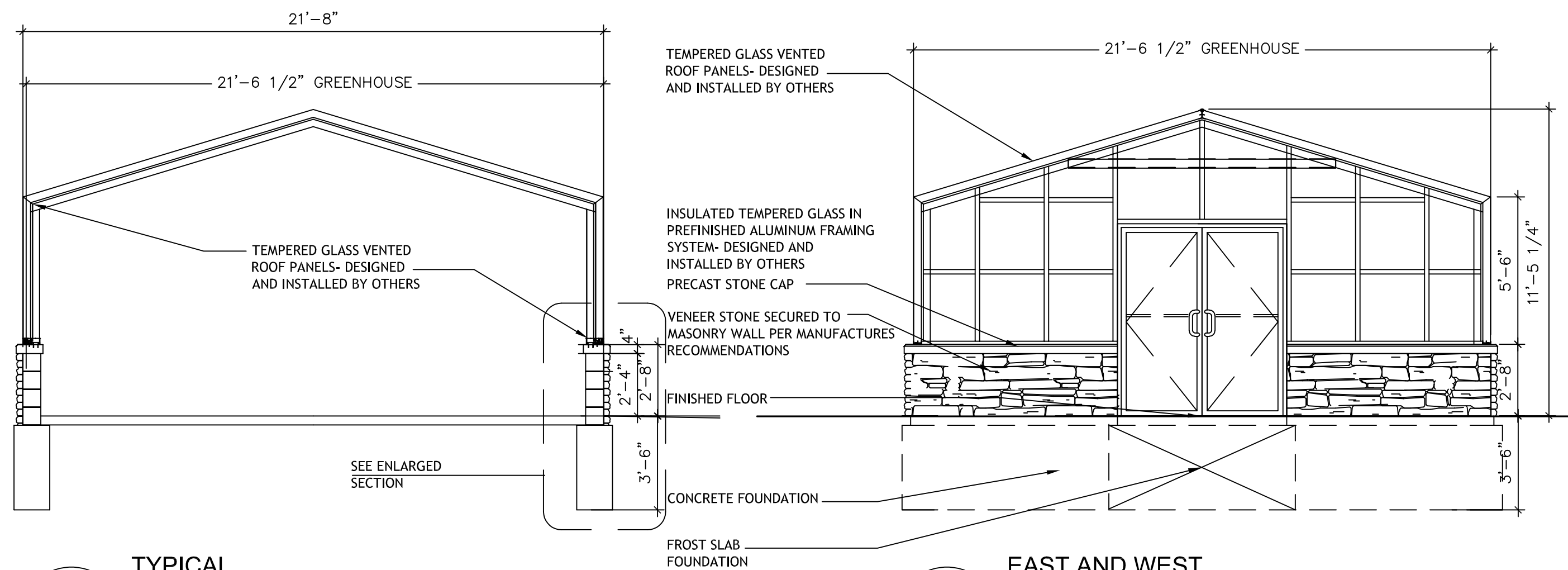
ROOF GLASS [BEST]: SUPER MC LOW-E TEMPERED SAFETY OVER
CLEAR TEMPERED SAFETY (7/8" O.A. THICKNESS)

WALL GLASS [BETTER]: MC LOW-E TEMPERED SAFETY OVER CLEAR
TEMPERED SAFETY (7/8" O.A. THICKNESS)

FINISH: FRAME FINISH TO BE BRONZE BAKED-ON ENAMEL

GASKETS: GLAZING GASKETS TO BE E.P.D.M. RUBBER

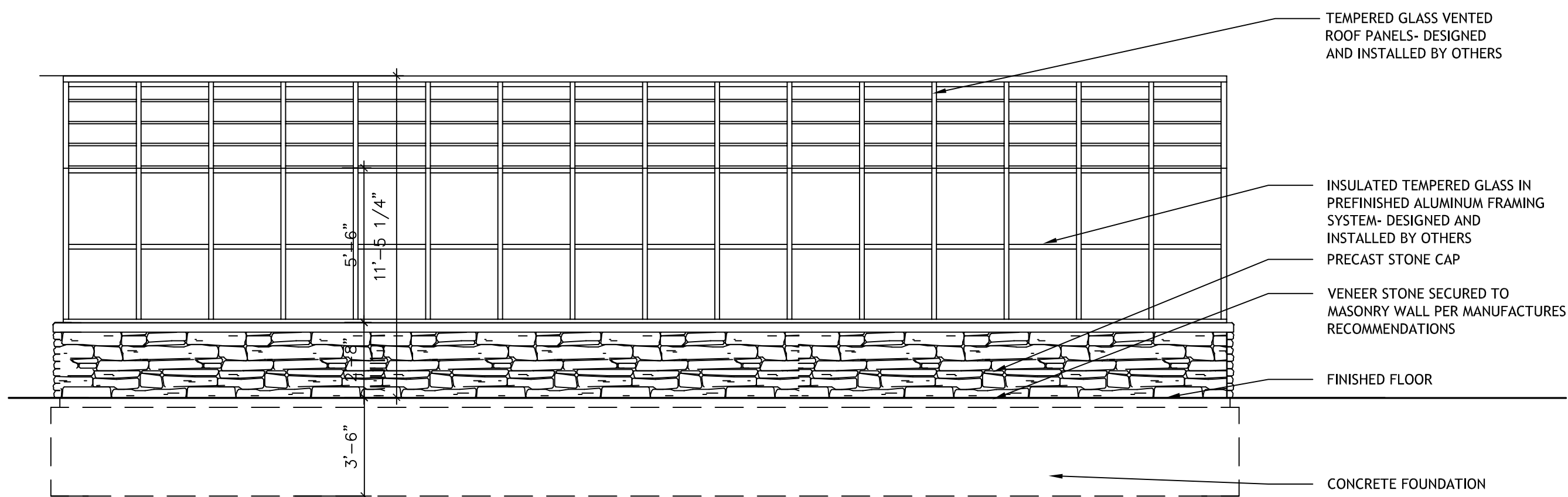
FLASHING: BY INSTALLER



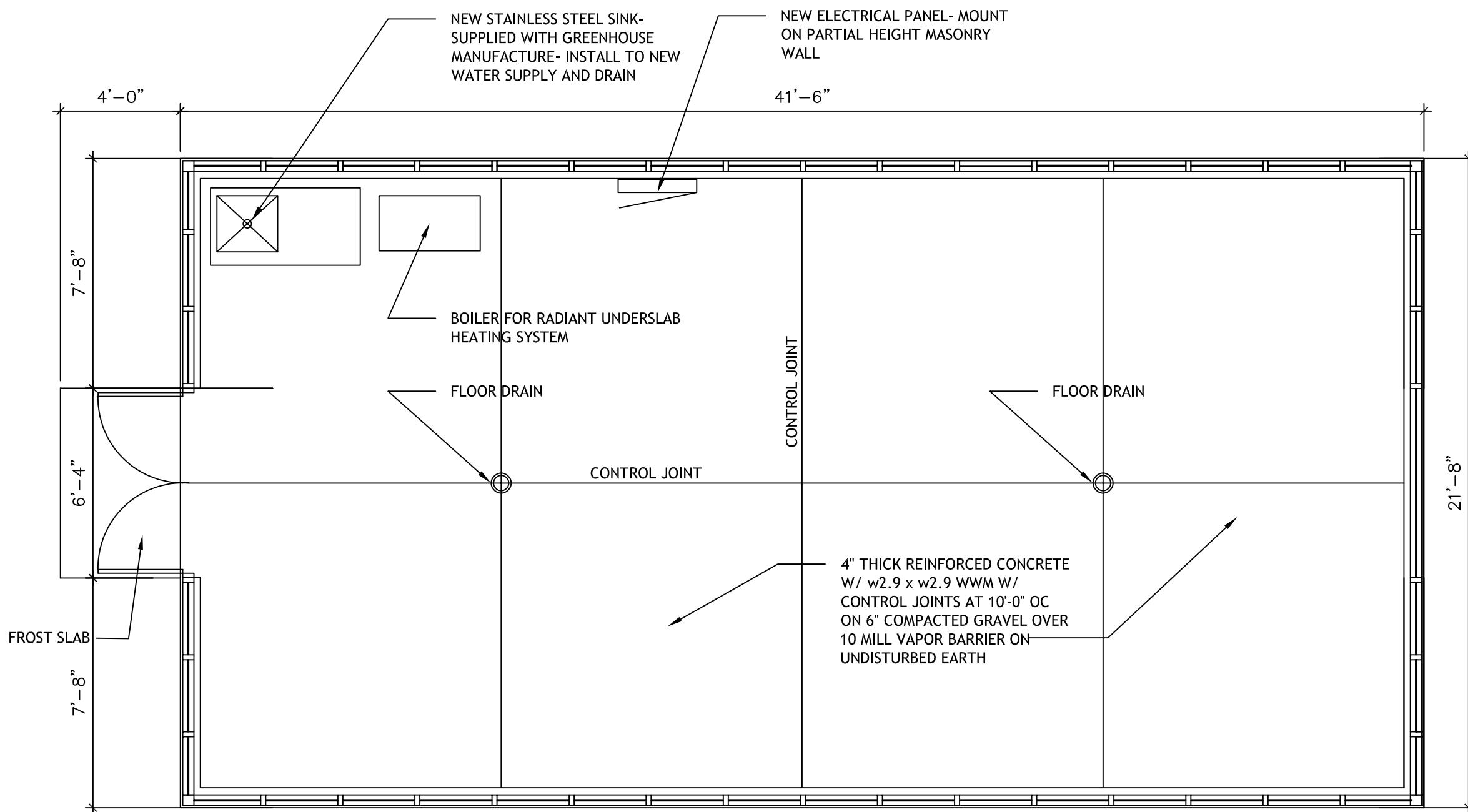
TYPICAL SECTION

D

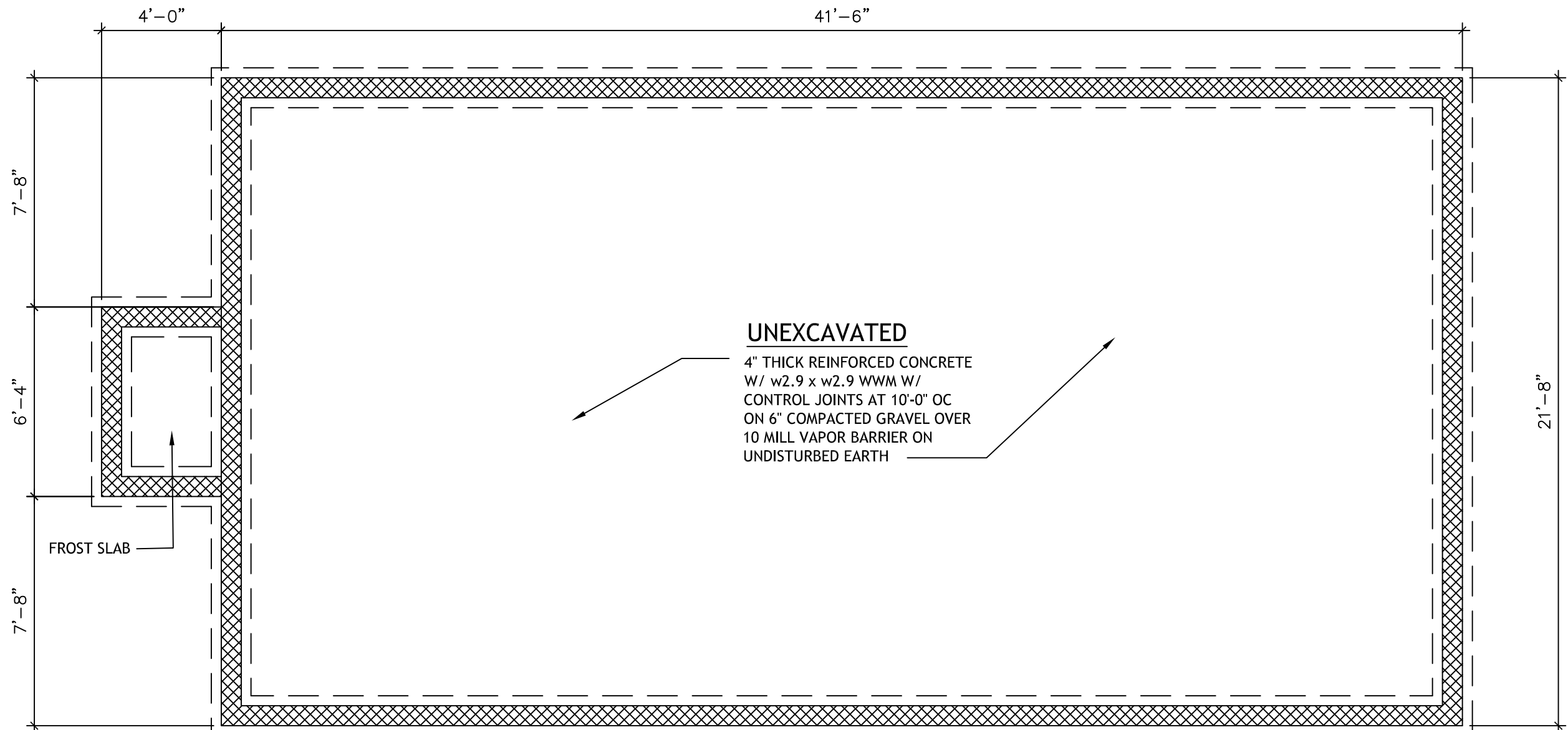
A1 SCALE: 1/4"=1'-0"



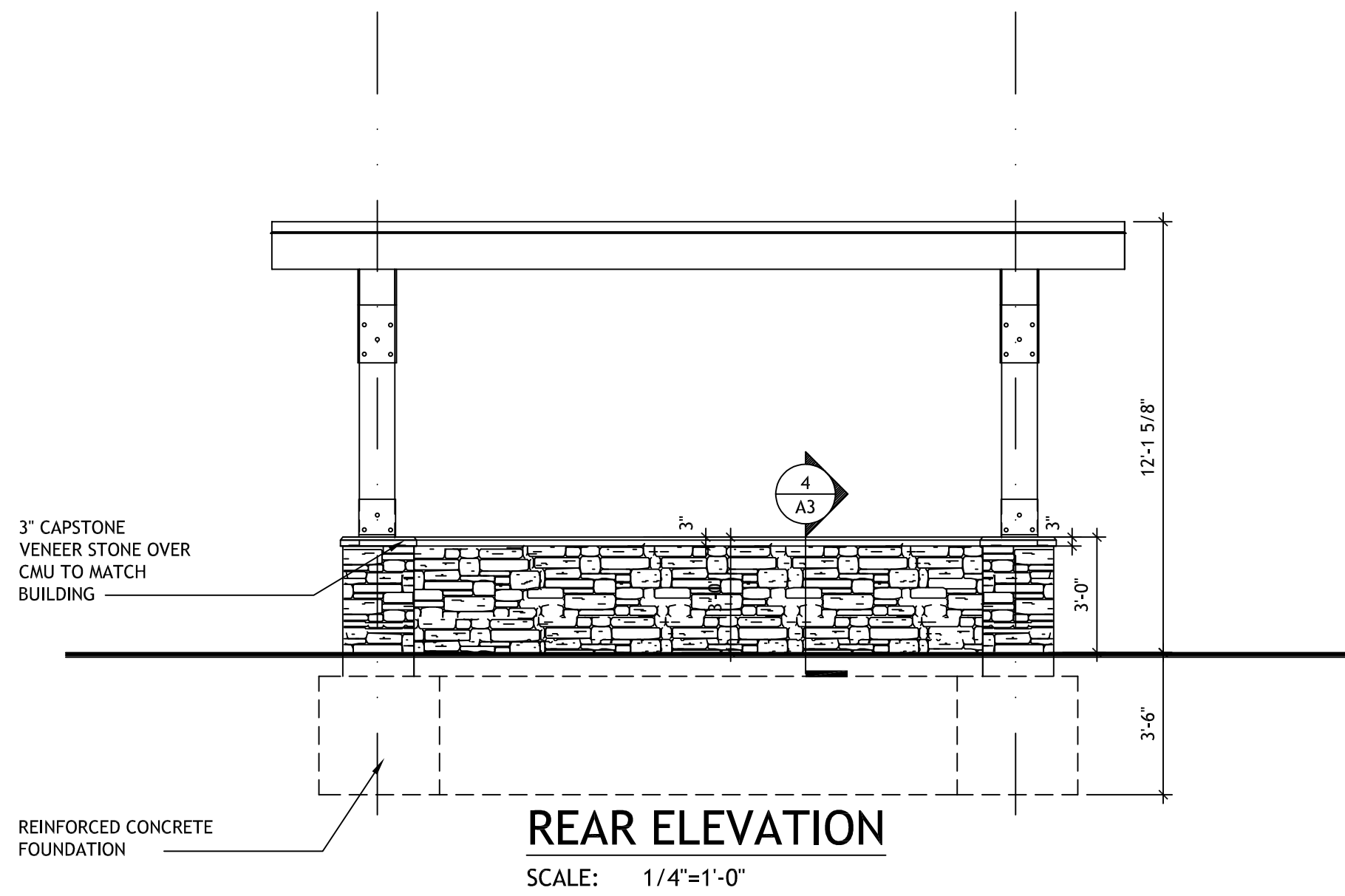
2 NORTH AND SOUTH
SIDE ELEVATION
A1 SCALE: 1/4"=1'-0"



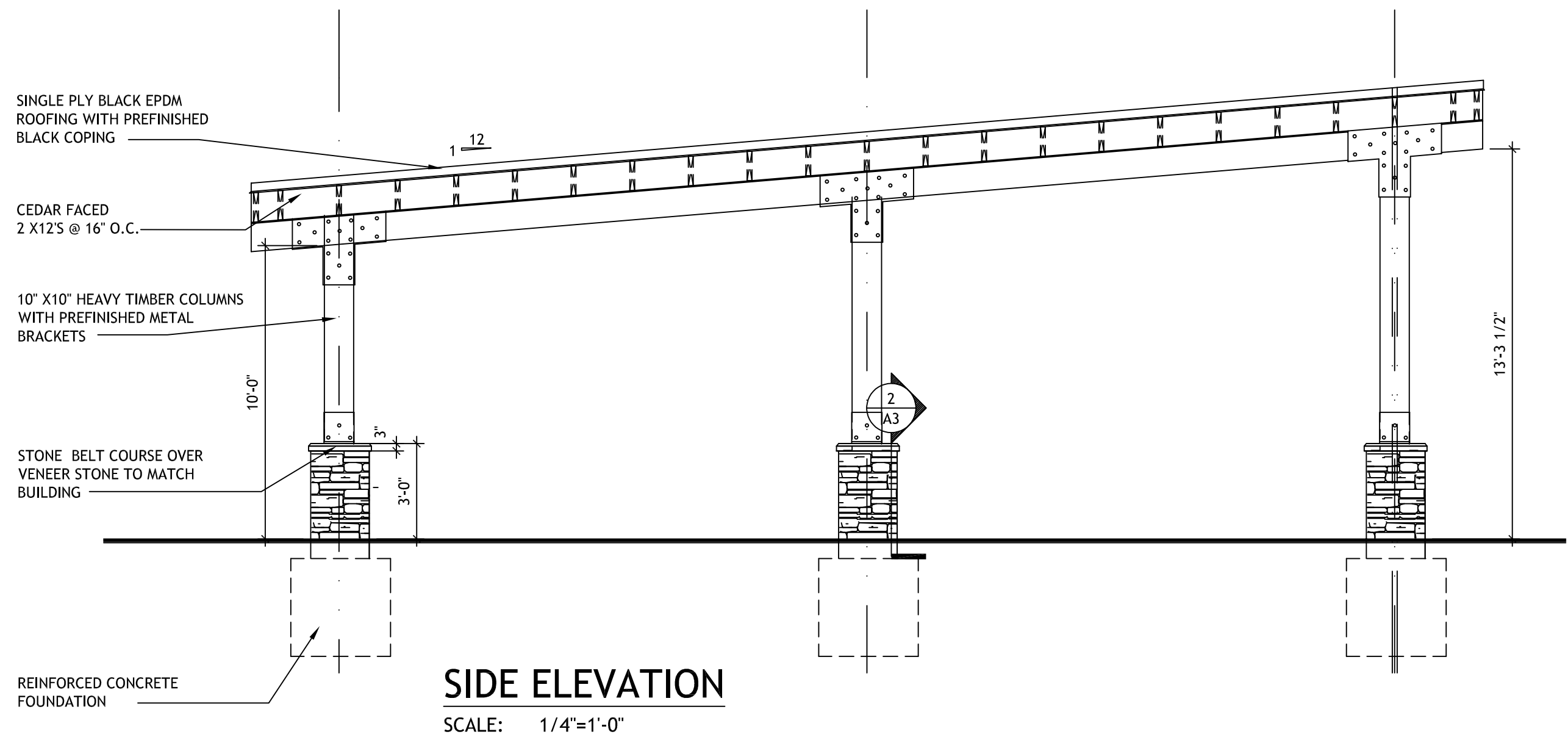
A FLOOR PLAN
A1 SCALE: 1/4"=1'-0"



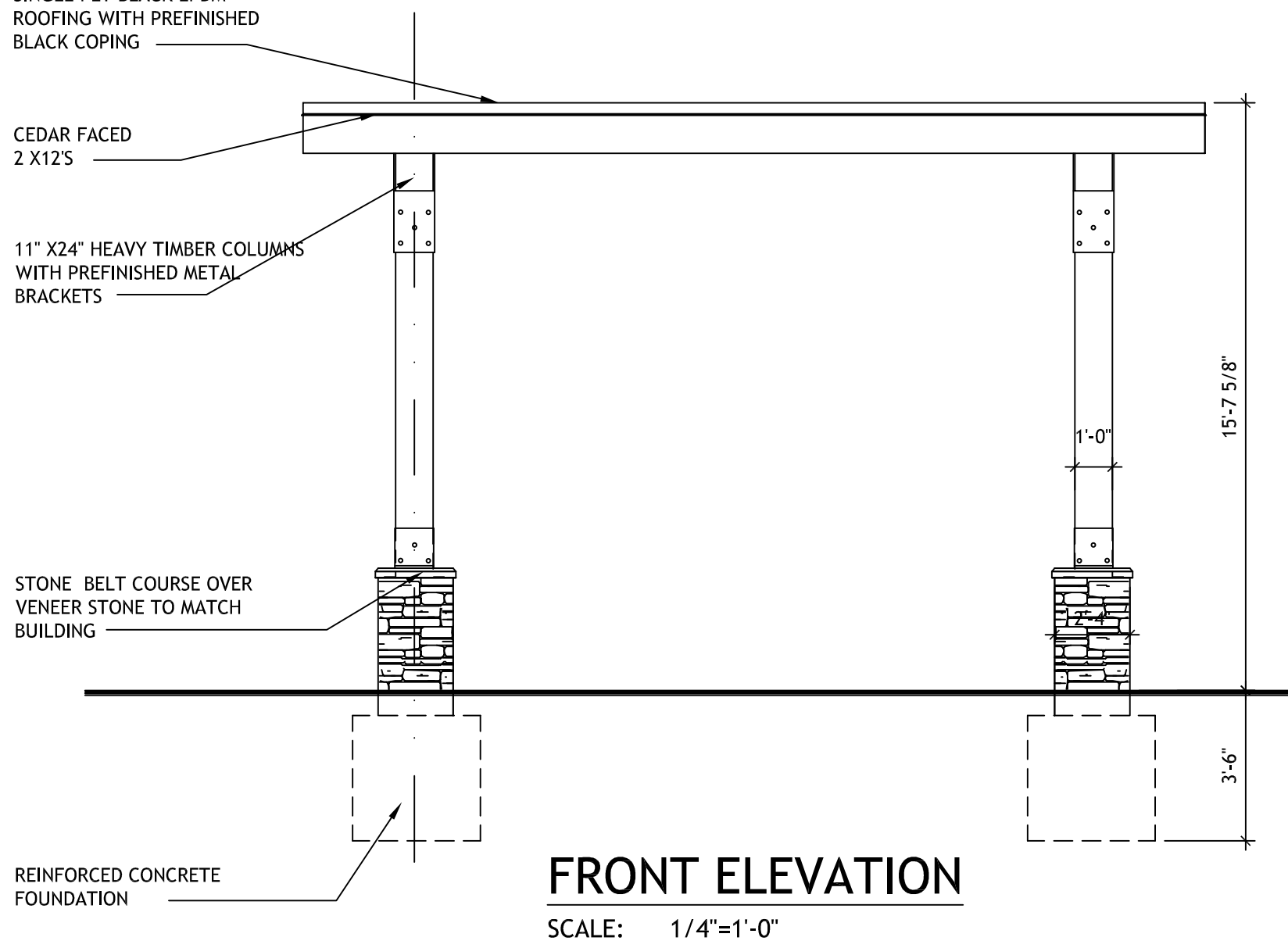
B FOUNDATION PLAN
A1 SCALE: 1/4"=1'-0"



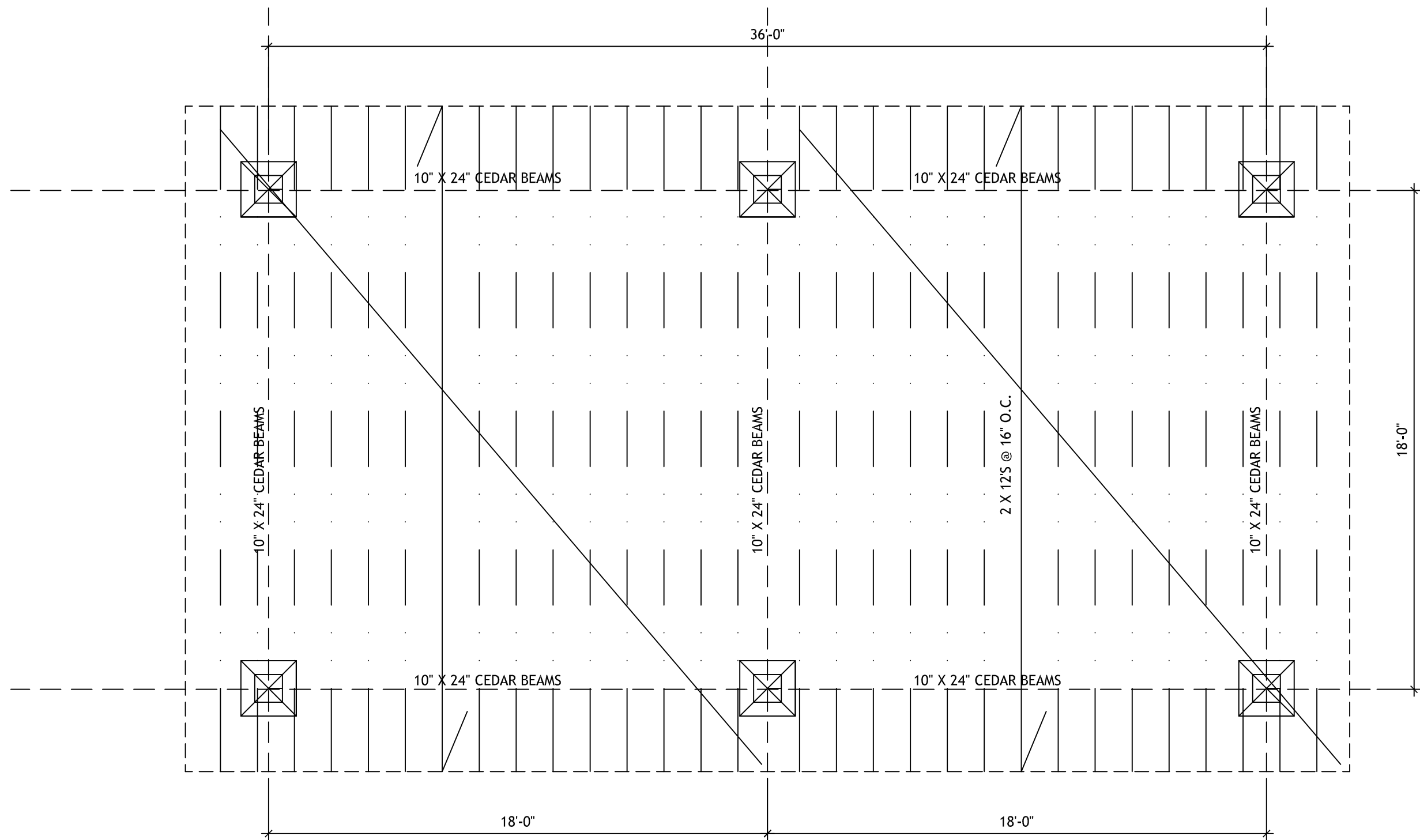
REAR ELEVATION
SCALE: 1/4"=1'-0"



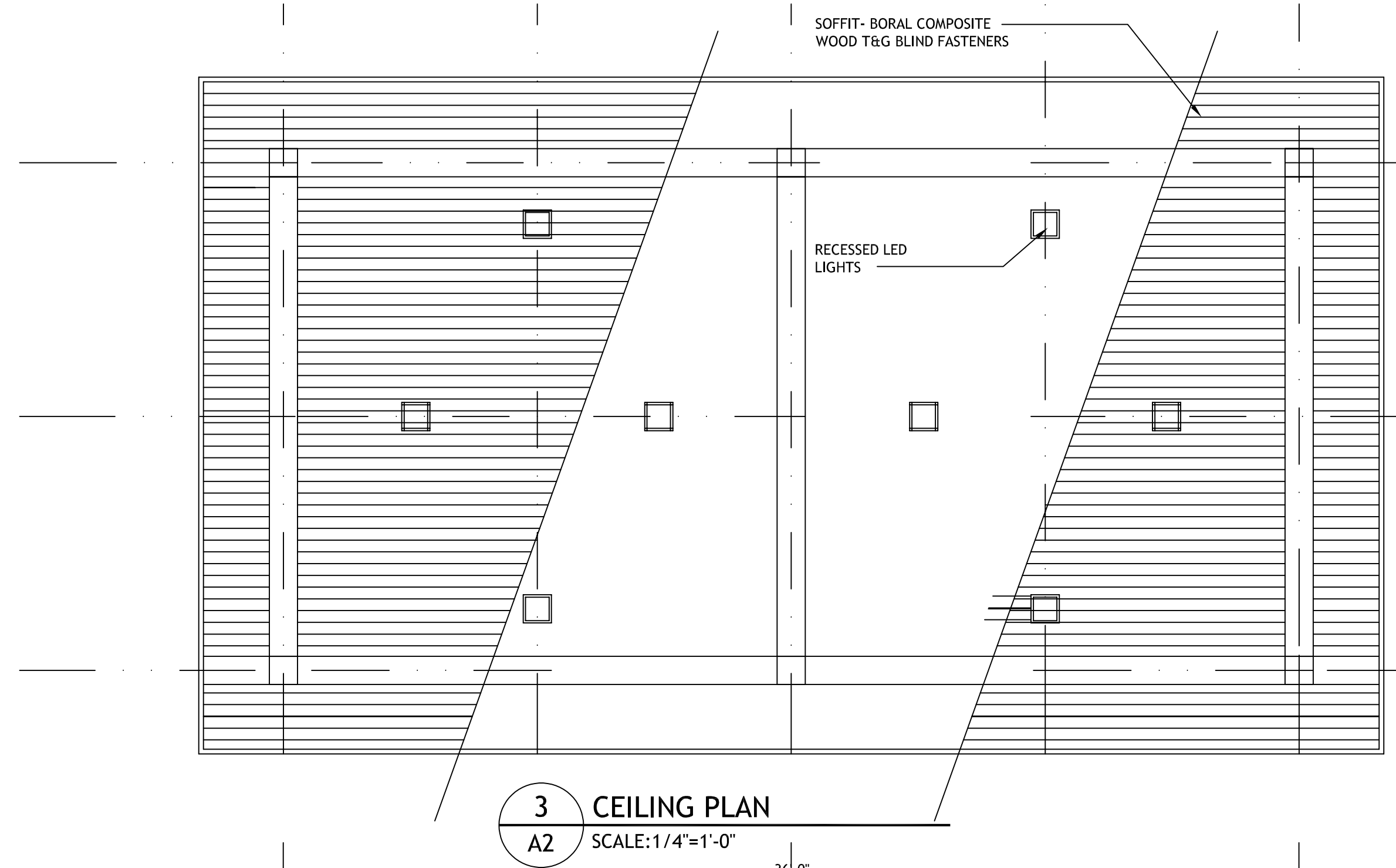
SIDE ELEVATION
SCALE: 1/4"=1'-0"



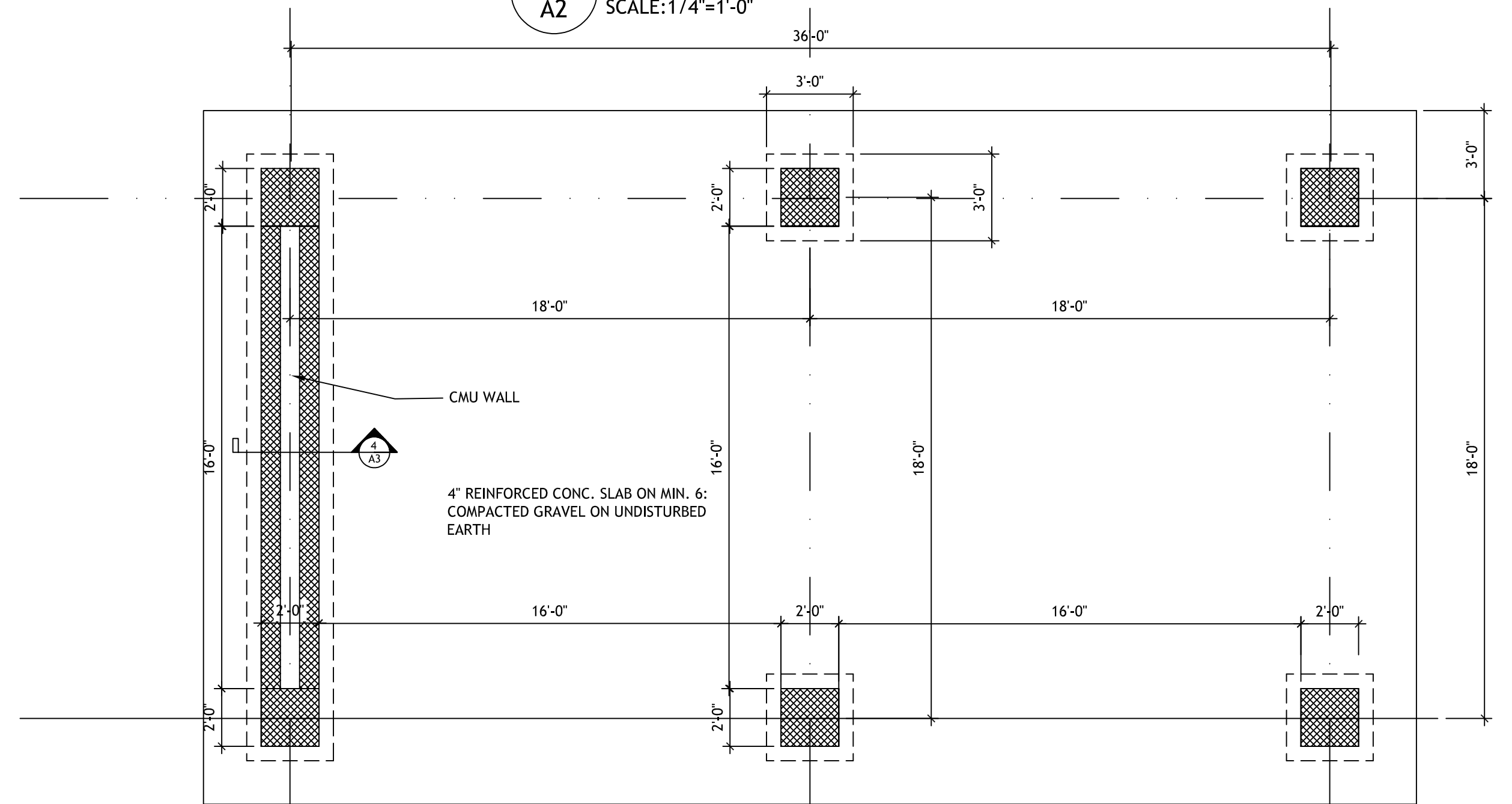
FRONT ELEVATION
SCALE: 1/4"=1'-0"



2 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



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



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



ROBERT D. OROVETS
LICENSE # 8293
EXPIRATION 12-31-2025

NEW VISTA ENTERPRISES
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CLEVELAND, OHIO 44121
ROBERT OROVETS ARCHITECT
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440-346-3721

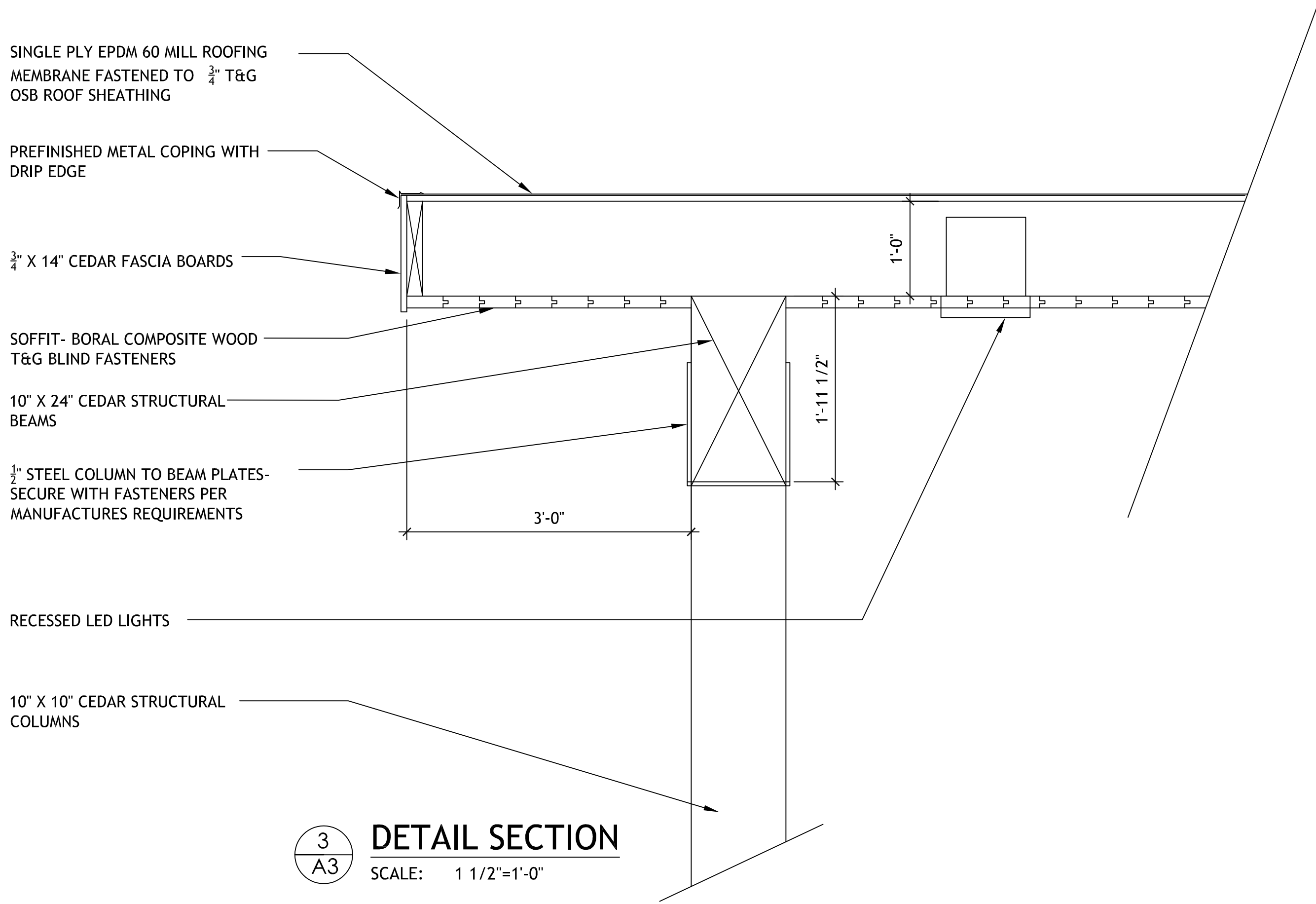
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SPECIFICATIONS

SITE GRADING

- THE AREA TO BE GRADED AND AREA TO BE OCCUPIED BY NEW STRUCTURE INCLUDING WALKS AND DRIVES SHALL BE CLEARED OF TREES AND ALL PERISHABLE OR OBJECTIONABLE MATTER. STUMPS AND ROOTS SHALL BE REMOVED TO A DEPTH OF 18" BELOW SUBGRADE IN PAVED AREAS AND TO SUBGRADE IN TURF AREAS.
- STOCKPILE ALL CLEAN TOPSOIL AT AREA DESIGNED ON DRAWINGS FOR FINAL GRADING. TOPSOIL (FINISH) TO BE MINIMUM DEPTH OF 4", FREE OF ALL CONSTRUCTION DEBRIS.
- PROTECT ALL TREES NOT INDICATED TO BE REMOVED WITH SNOW FENCING AT THE PERIMETER OF THE TREE'S CANOPY.
- CONTRACTOR IS TO REMOVE ALL EXCAVATED MATERIAL FROM SITE.
- COORDINATE WORK WITH LANDSCAPE CONTRACTOR AND HIS INSTALLATION OF LANDSCAPING AND EXTERIOR IRRIGATION SYSTEM (IF APPLICABLE).

CONCRETE

- CONCRETE CONSTRUCTION TO COMPLY WITH RECOMMENDED PRACTICE AND STANDARD SPECIFICATIONS FOR CONCRETE AND REINFORCED CONCRETE, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, LATEST EDITION. READY MIXED CONCRETE TO CONFORM WITH ASTM C94-78.
- POROUS UNDERBED UNDER ALL CONCRETE SLABS ON SUBGRADE TO BE 4" MINIMUM DEPTH; SAND, WASHED GRAVEL, OR CRUSHED STONE (1" MAXIMUM SIZE).
- CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, COARSE AGGREGATE, FINE AGGREGATE, AND POTABLE WATER. AN AIR ENTRAINING ADMIXTURE SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS FOR EXTERIOR CONCRETE, 4% TO 6% CONTENT. MINIMUM CEMENT CONTENT IN CONCRETE TO BE:
5 SACK/CU. YD. PROTECTED
5 1/2 SACK/CU. YD. EXPOSED
MAXIMUM WATER/6 GALLON PER SACK
- CLASSIFICATION OF CONCRETE:
FOUNDATION 4000 PSI - 1 1/2" TO 3" CRUSHED STONE - 3" TO 5" SLUMP; SLAB ON GRADE 4000 PSI 3/4" TO 1 1/2" CRUSHED STONE - 2" TO 4" SLUMP.
- ALL INTERIOR CONCRETE SLABS TO HAVE 6 MIL PLASTIC VAPOR BARRIER.
- SEE DRAWINGS FOR REINFORCING BAR SIZE AND PLACEMENT AS REQUIRED. ALL WORK TO BE IN CONFORMANCE WITH AMERICAN CONCRETE INSTITUTE STANDARDS. PROVIDE 3" MINIMUM CONCRETE COVERAGE OVER REBARS.

FOUNDATION

- DESIGN BEARING PRESSURE HAS BEEN ASSUMED TO BE 1,500 PSF ON NATURAL UNDISTURBED SOIL AND/OR ENGINEERED BACKFILL. GENERAL CONTRACTOR MUST RETAIN AN APPROVED SOILS TESTING LABORATORY TO VERIFY SOIL BEARING CAPACITY AND SETTLEMENT CHARACTERISTICS OF SOIL PRIOR TO THE PLACEMENT OF ANY CONCRETE. SUBMIT REPORTS TO ARCHITECT.
- NOTIFY ARCHITECT OF ANY UNUSUAL SOIL CONDITIONS BEFORE PROCEEDING WITH WORK.
- FOOTINGS STEPS MAY BE ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH MAXIMUM STEP OF TWO (2) FEET.
- MATERIAL IN CONTACT WITH FOUNDATION WALLS MUST BE FREELY DRAINED AT ALL TIMES.
- BOTTOM OF ALL FOOTINGS MUST BE A MINIMUM OF 3'-6" BELOW FINISHED EXTERIOR GRADE FOR PROTECTION FROM FROST.

LUMBER

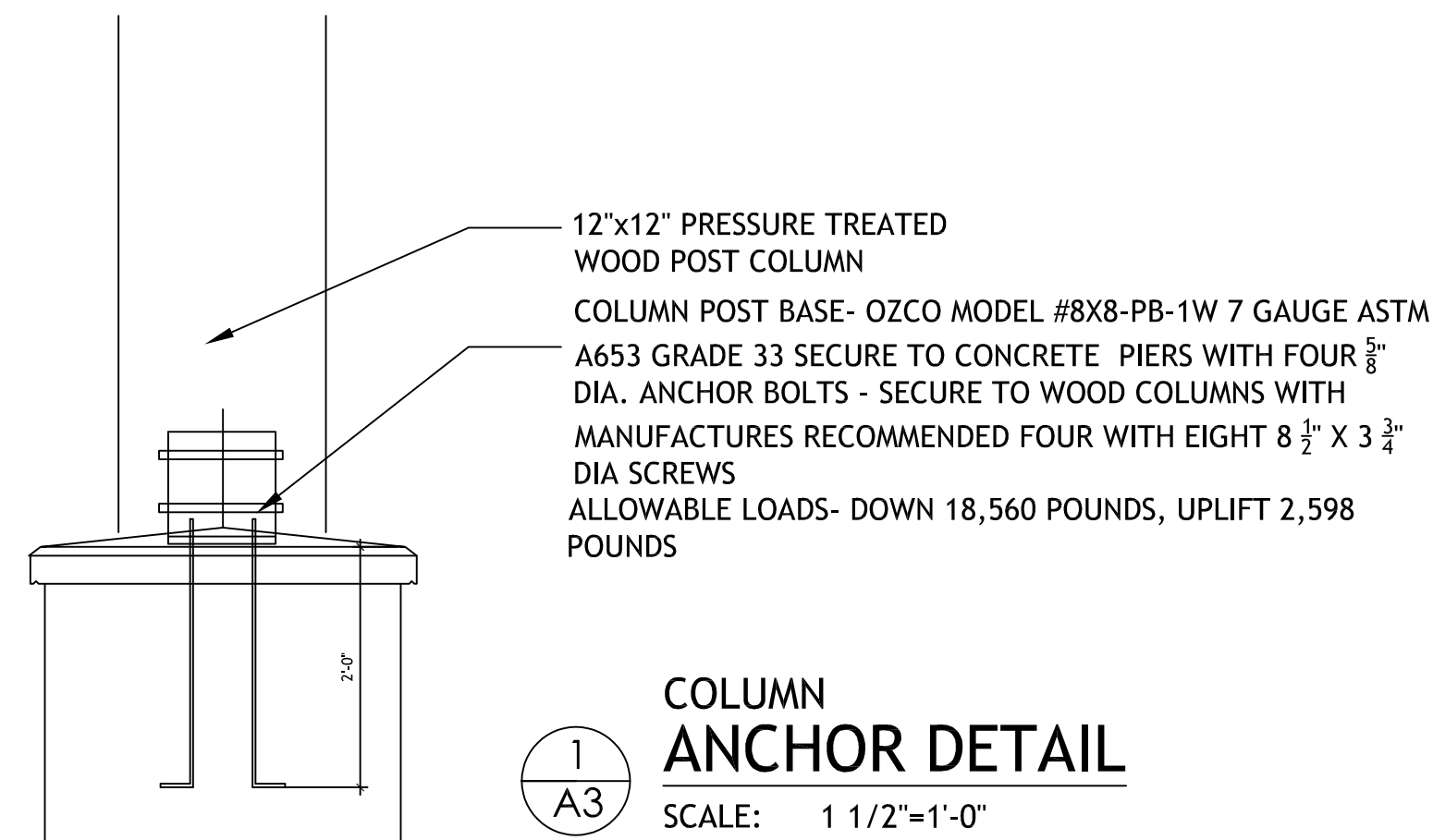
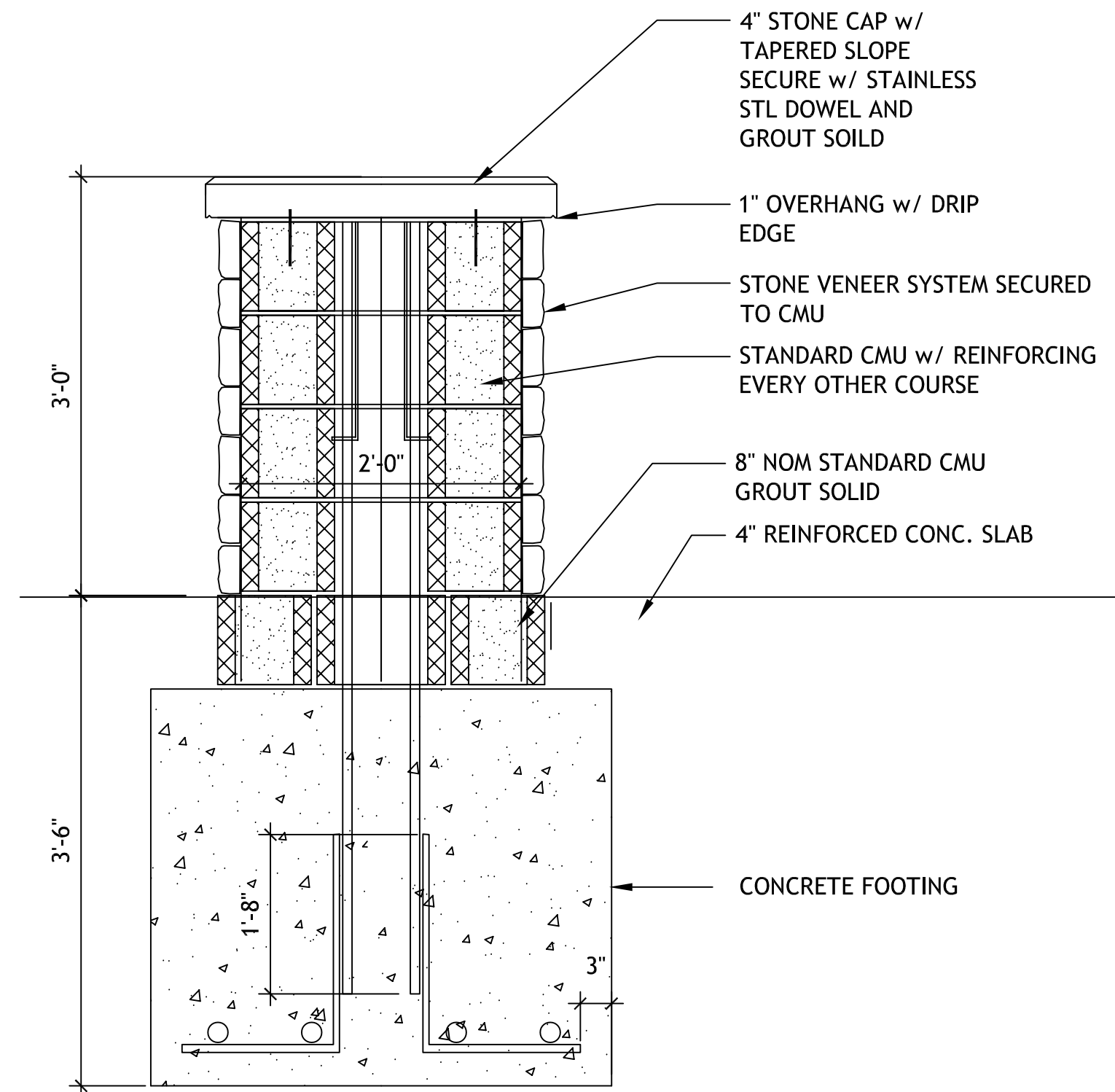
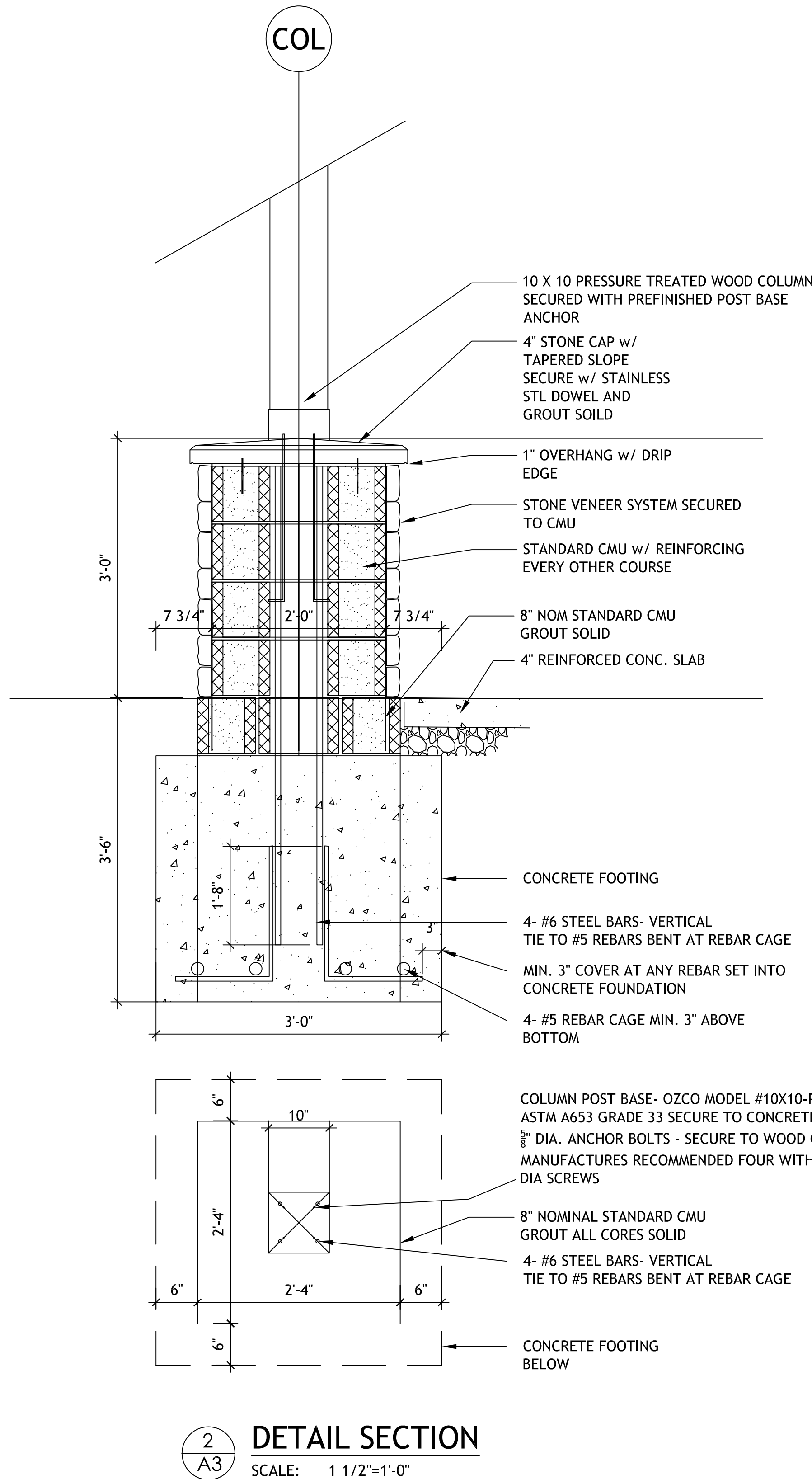
- STRUCTURAL FRAMING LUMBER (STUDS, JOISTS, RAFTERS, AND TRUSSES) TO BE KILN DRIED DOUGLAS FIR, 1500 PSI FIBER STRESS (NO YELLOW PINE OR SPRUCE), #2 CONSTRUCTION GRADE. SIZED AND FRAMED TO DRAWING.
- ALL EXTERIOR PLYWOOD WALL SHEATHING TO BE 1/2" CDX TYPE, OR WAFERBOARD. ROOF SHEATHING TO BE 3/4" CDX PLYWOOD, OR WAFERBOARD. FLOOR SHEATHING TO BE 3/4" T & G WAFERBOARD OR CDX PLYWOOD WITH 1/2" PLYWOOD UNDERLAYMENT, STAGGERED JOINTS, FOR FINISH (GLUED AND SCREWED INSTALLATION). VERIFY UNDERLAYMENT REQUIRED FOR FLOOR MATERIAL.
- ROOF FRAMING TO BE AS SHOWN ON DRAWINGS.
- TJI & T.JL JOIST SPECIFICATION
FLANGE MEMBERS, WEB MEMBERS AND ADHESIVES SHALL CONFORM TO THE PROVISIONS OF NIES REPORT NO. NER-200. THE TJI & T.JL JOISTS, IF STORED PRIOR TO ERECTION, SHALL BE STORED IN A VERTICAL POSITION AND PROTECTED FROM THE WEATHER. THEY SHALL BE HANDLED WITH CARE SO THAT THEY ARE NOT DAMAGED. THE TJI & T.JL JOISTS ARE TO BE ERECTED AND INSTALLED IN ACCORDANCE WITH THE PLANS. TEMPORARY CONSTRUCTION LOADS WHICH CAUSE STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. ERECTION BRACING IS TO BE PROVIDED TO KEEP TJI & T.JL JOISTS STRAIGHT AND PLUMB AS REQUIRED AND TO ASSURE ADEQUATE LATERAL SUPPORT FOR THE INDIVIDUAL TJI & T.JL JOISTS AND THE ENTIRE SYSTEM, UNTIL THE SHEATHING MATERIAL HAS BEEN APPLIED.

ROUGH CARPENTRY

- WOOD FRAMING TO BE SIZED AS SHOWN ON DRAWINGS. ALL MEMBERS TO BE IN SINGLE LENGTHS BETWEEN SUPPORTS. ALL MEMBERS TO BE BOLTED OR SPIKED AND ERECTED IN SUBSTANTIAL MANNER.
- ALL PARTITIONS AND WALLS TO HAVE SOLE PLATES AND CAPS. CORNERS AND ANGLES TO BE FORMED, BLOCKED AND SET SQUARE AND PLUMB. STUDS TO BE DOUBLED AT ALL OPENINGS. HEADS OF OPENINGS OVER 4'-0" WIDE TO BE TRUSSED. ALL STUDDING TO BE AT 16" O.C.
- FLOOR AND CEILING JOISTS TO BE RIGIDLY BRIDGED AT INTERVALS NOT EXCEEDING 8'-0" WITH (ONE) 1/2" X 3" CROSS BRIDGING, DOUBLE NAILED AT EACH JOIST. ONE ROW OF HORIZONTAL BRIDGING TO BE PROVIDED FOR STUD HEIGHT EXCEEDING 8'-0".
- JOISTS TO BE DOUBLED OR TRIPLED UNDER PARTITIONS WHICH PARALLEL THEM. DOUBLE HEADERS AND TRIMMERS TO BE PROVIDED FOR OPENINGS.
- PIPE AND DUCT PASSAGES: WHERE PIPES INTERSECT DOUBLE JOIST, BLOCK APART SUFFICIENTLY, BUT NOT OVER 6" TO PERMIT CLEARANCE. BLOCKS TO BE SPACED 10" APART.
- SILLS AND PLATES RESTING ON MASONRY TO BE PRESSURE TREATED AND ANCHORED WITH 5/8" BOLTS AT 4'-0" O.C. SET ON COMPRESSIBLE MATERIAL (CELOTEX OR FLEXCELL).
- TERMITE SHIELDS TO BE PLACED UNDER ALL WOOD PLATES ON MASONRY WALLS.

FINISH CARPENTRY

- TRIM TO BE SELECT #1 KILN-DRIED MATERIAL, POPLAR OR BIRCH, PROFILE TO BE PER DETAILS.
- ALL BUILT-IN CABINETRY AND TOPS PROVIDED BY OWNER & INSTALLED BY G.C.
- ALL BATHROOM ACCESSORIES (TOWEL BARS, PAPER HOLDERS, ETC.) TO BE PROVIDED BY OWNER & INSTALLED BY GENERAL CONTRACTOR.
- ALL CORNERS TO BE MITERED OR CODED AND GLUED TIGHT. ALL NAILS TO BE SET ALL WORK TO BE TRUE AND STRAIGHT. INSTALL IN ACCORDANCE WITH INDUSTRY STANDARDS OF WORKMANSHIP. NO SPLIT, CHECKED, AND KNOTHOLE MATERIALS IS TO BE USED.
- CLOSET SHELVES & HANGRAIL
- COORDINATE WORK WITH OTHER TRADES AND ARCHITECT.
- INSTALL OWNER SUPPLIED LIGHT FIXTURES.
- GARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR FROM FINAL COMPLETION.

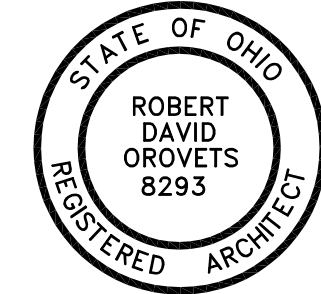


DESIGN CRITERIA

PAVILION COMPLIES WITH 2024 OBC WITH AMENDMENTS
USE GROUP= U (UTILITY) OPEN ALL SIDES
CONSTRUCTION TYPE 5B
AREA= 760 SF

LUMBER ALLOWABLE STRESSES	Fb=1000 PSI E=1,700,000 Fv=95 PSI
FLOOR LOADS	40 PSF LIVE LOAD 15 PSF DEAD LOAD
ROOF LOADS	15 PSF DEAD LOAD

WIND LOADS--115 MPH-- WIND PRESSURE FOR EXPOSURE B PER IMPORTANCE FACTOR FOE CATEGORY II= 1.0
SOIL BEARING PRESSURE 1,500 PSF
ROOF SNOW LOAD 30 PSF
SNOW EXPOSURE FACTOR FOR TERRAIN CATEGORY B PER TABLE 7-2=1.0
SEISMIC DESIGN
Ss=15, S1= 6, SITE CLASS= D, DESIGN USING SIMPLIFIED LATERAL FORCE ANALYSIS PROCEDURES, F=1.0, Fd= 1.4, Sds= 1.0, R= 7



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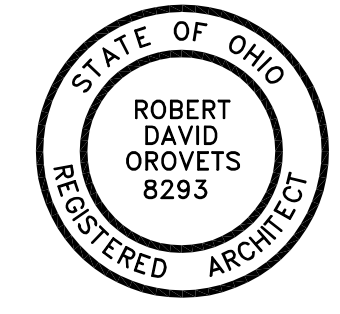
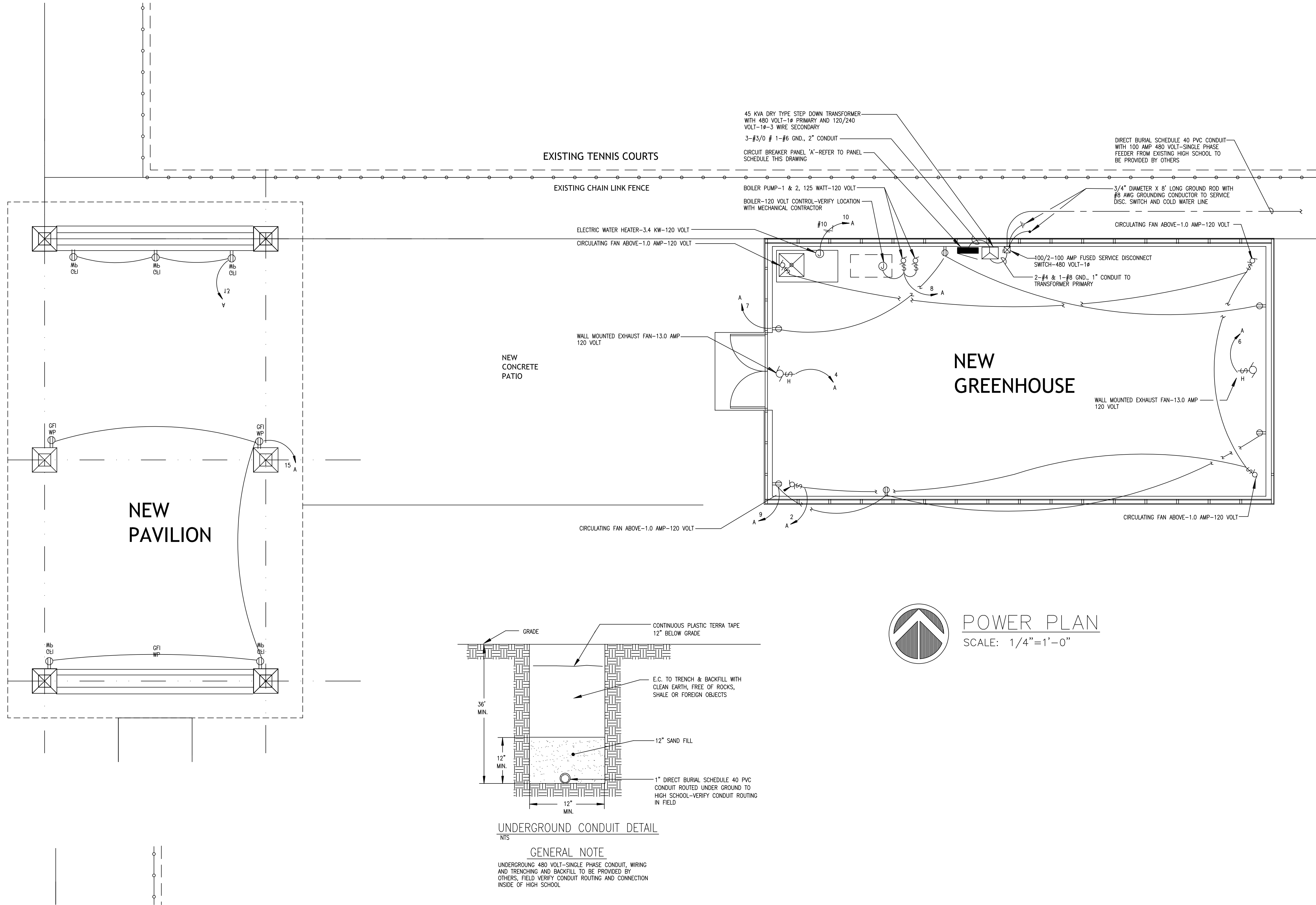
202520

GENERAL NOTES AND SPECIFICATIONS:

- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT SERVICES AND RELATED ACCESSORIES FOR A COMPLETE INSTALLATION OF ALL ELECTRICAL WORK, AS INDICATED ON THESE DRAWINGS. ALL WORK IS SUBJECT TO THE APPROVAL OF THE OWNER OR HIS REPRESENTATIVE.
- THIS INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) 2017, AND ALL APPLICABLE FEDERAL, STATE & LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE SUITABLE FOR INSTALLATION IN ACCORDANCE WITH THE PROVISIONS OF NEC ARTICLE 110.3(A)(1).
- ALL ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE UNDERWRITERS LABORATORY (UL), AND SHALL BEAR THE UL LABEL.
- ALL EQUIPMENT FURNISHED AND WORK PERFORMED SHALL BE GUARANTEED AGAINST DEFECTS IN WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER OR HIS REPRESENTATIVE.
- ALL PERMITS REQUIRED TO PERFORM THIS WORK SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR. SCHEDULE ALL INSPECTIONS WITH THE LOCAL AUTHORITY. NOTIFY THE OWNER OR HIS REPRESENTATIVE OF ALL SCHEDULED INSPECTIONS AT LEAST 48 HOURS IN ADVANCE.
- GROUND ALL ELECTRICAL EQUIPMENT INCLUDING LIGHTING FIXTURES, RECEPTACLES, PANELS, ETC., IN ACCORDANCE WITH ALL PROVISIONS OF ARTICLE 250 OF THE NEC. PROVIDE A GROUND WIRE IN ALL CONDUITS.
- FURNISH A TYPED DIRECTORY FOR ALL ELECTRICAL PANELS PER NEC 408.4(A) AT THE COMPLETION OF THIS PROJECT. PROVIDE NAMEPLATE, WHERE REQUIRED, FOR PANELS INDICATING WHERE THE POWER ORIGINATES PER NEC ARTICLE 408.4(B).
- ALL WIRE FURNISHED SHALL BE 1/C COPPER, 90° C, TYPE THHN, THWN OR XHHW, #12 AWG MINIMUM, UNLESS OTHERWISE NOTED.
- ALL EXPOSED CONDUIT SHALL BE EMT, 1/2" MINIMUM SIZE (RGS WHERE NOTED ON PLANS) CONDUIT RUN CONCEALED IN WALLS OR ABOVE DROP CEILINGS SHALL BE EMT, FLEXIBLE METAL CONDUIT OR MC CABLE WHERE PERMITTED BY NEC. PROVIDE ALL REQUIRED CONDUIT SUPPORTS.
- ALL RECEPTACLES AND LIGHT SWITCHES AND COVER PLATE COLORS AND FINISHES SHALL BE APPROVED BY THE OWNER OR ARCHITECT.
- ALL EXT. SIGNS AND EMERGENCY LIGHTS SHALL BE WIRED DIRECT FROM A BREAKER, AHEAD OF ALL SWITCHES.
- PROVIDE FIRESTOP MATERIAL AT ALL PENETRATIONS THROUGH FLOORS OR FIRE WALLS PER NEC 300.21.
- ALL DISCONNECTING MEANS SHALL BE LEGIBLY MARKED IN ACCORDANCE WITH N.E.C. ARTICLE 110.22(A).
- RACEWAY PASSING FROM INTERIOR TO EXTERIOR OF THE SHALL BE FILLED WITH APPROPRIATE MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY (NEC 300.7 (A)).
- ALL BRANCH CIRCUIT WIRING SHALL BE COLOR CODED AND IN COMPLIANCE WITH N.E.C. ARTICLE 210.5.

ELECTRICAL SYMBOL LEGEND

- GROUND NEUTRAL
#10
SWITCHED LEG
- 5 G
HOMERUN TO PANEL G WITH 2-#12&1-#12 GND, 3/4" CONDUIT MINIMUM U.O.N. #3 = CIRCUIT BREAKER NUMBER IN PANEL G
- SWITCH SINGLE POLE 20 AMP, 120 VOLT, MOUNTED 4'-0" A.F.F. HUBBELL CAT. 1201-I OR EQUAL
- 277 VOLT, 1P, HORSEPOWER RATED SWITCH WITH SINGLE OVERLOAD. SIZE OVERLOAD TO MATCH MOTOR
- 20 AMP DUPLEX RECEPTACLE MFG. Ø 18" A.F.F., UON VERIFY WITH ARCH. PRIOR TO ROUGH-IN HUBBELL CAT. #5363 OR EQUAL
- DUPLEX GROUND FAULT RECEPTACLE 20 AMP, 120 VOLT, 2-POLE, 3-WIRE, MOUNTED 42" A.F.F. TO BOTTOM INDOOR AND 24" ABOVE GRADE OUTDOOR U.O.N. HUBBELL CAT. #20WLA OR EQUAL. "WP" INDICATES WEATHERPROOF COVER
- 15 AMP TWIST-LOCK TYPE DUPLEX RECEPTACLE CEILING MOUNTED FOR CORD & PLUG CONNECTED LIGHTING
- JUNCTION BOX-MOUNTING HEIGHT AND SIZE AS REQUIRED
- EXHAUST FAN-50 WATTS-120 VOLT -U.O.N.
- CIRCUIT BREAKER PANEL-REFER TO PLAN FOR DESCRIPTION
- 45 KVA FLOOR MOUNTED STEP DOWN TRANSFORMER
- FUSED DISCONNECT SWITCH
- LED LIGHT FIXTURE WITH CORD AND TRIST-LOCK PLUG PROVIDED BY OTHERS
- LED RECESSED SQUARE WITH 3000K LAMPS, 2000 LUMENS, 14 WATT INPUT, 120 VOLT DRIVER, SYMMETRICAL LIGHT DISTRIBUTION AND U.L. LISTED FOR WET LOCATION LITHONIA #RCNYLED-AL01-30K-80CRI-SYMC-MVOLT-B25-DWHXD OR EQUAL
- AFF ABOVE FINISHED FLOOR
- UON UNLESS OTHERWISE NOTED
- EC ELECTRICAL CONTRACTOR



ROBERT D. OROVETS
LICENSE # 8293
EXPIRATION 12-31-2025

NEW VISTA ENTERPRISES
PO BOX 21313
CLEVELAND, OHIO 44121

ROBERT OROVETS ARCHITECT
35299 DORCHESTER ROAD
CLEVELAND, OHIO 44140
440-346-3721

PROJECT TITLE
NEW PAVILION AT:
MAGNIFICAT HIGH SCHOOL
20770 HILLARD BLVD.
ROCKY RIVER, OHIO

DESIGN AND CONSTRUCTION
SERVICE ARE GIVEN IN CONFERENCE
AND REMAIN THE PROPERTY OF
ROBERT OROVETS ARCHITECT
THE USER OF THIS DESIGN AND
THE USER OF THIS DESIGN AND
FOR PURPOSES OTHER THAN THE
SPECIFIC PROJECT NAMED HEREIN
IS STRICTLY PROHIBITED WITHOUT
EXPRESSED WRITTEN CONSENT
OF ROBERT OROVETS

08-28-2025 PERMIT

DRAWN BY:
RDO

CHECKED BY:
RDO

SHEET NUMBER

E1

JOB NUMBER
202520

MAIN BUS RATING: 200 AMP				FED FROM: 45 KVA TRANSFORMER			
MAIN BREAKER: 200/2				FEEDER CABLE SIZE: 3-#3/0 & 1-#6 GND, 2" C.			
LUGS:				VOLTS: 240/120 PHASE: 1Ø			
DESCRIPTION	W PER PHASE		NO.	A B		NO.	DESCRIPTION
	A	B					
CENTER LIGHTING	1472		1	20	20	2	480 (4) CIRCULATING FANS
OUTSIDE LIGHTING		1472	3	20	20	4	1560 EXHAUST FAN-1
OVERHEAD WORK LIGHT	300		5	20	20	6	1560 EXHAUST FAN-2
NORTH REC		540	7	20	20	8	300 BOILER PUMPS/SYSTEM
SOUTH REC	540		9	20	20	10	3400 ELECTRIC WATER HEATER
PAVILLION LIGHTING		90	11	20	20	12	SPARE
PAVILLION GENERAL REC	540		13	20	20	14	SPARE
PAVILLION GENERAL REC		720	15	20	20	16	SPARE
SPARE			17	20	20	18	SPARE
SPARE			19	20	20	20	SPARE
SPARE			21	20	20	22	SPARE
SPARE			23	20	20	24	SPARE
SPACE			25			26	SPACE
SPACE			27			28	SPACE
SPACE			29			30	SPACE
SPACE			31			32	SPACE
SPACE			33			34	SPACE
SPACE			35			36	SPACE
SPACE			37			38	SPACE
SPACE			39			40	SPACE
SPACE			41			42	SPACE

CONNECTED LOAD:

KVA: 12.8

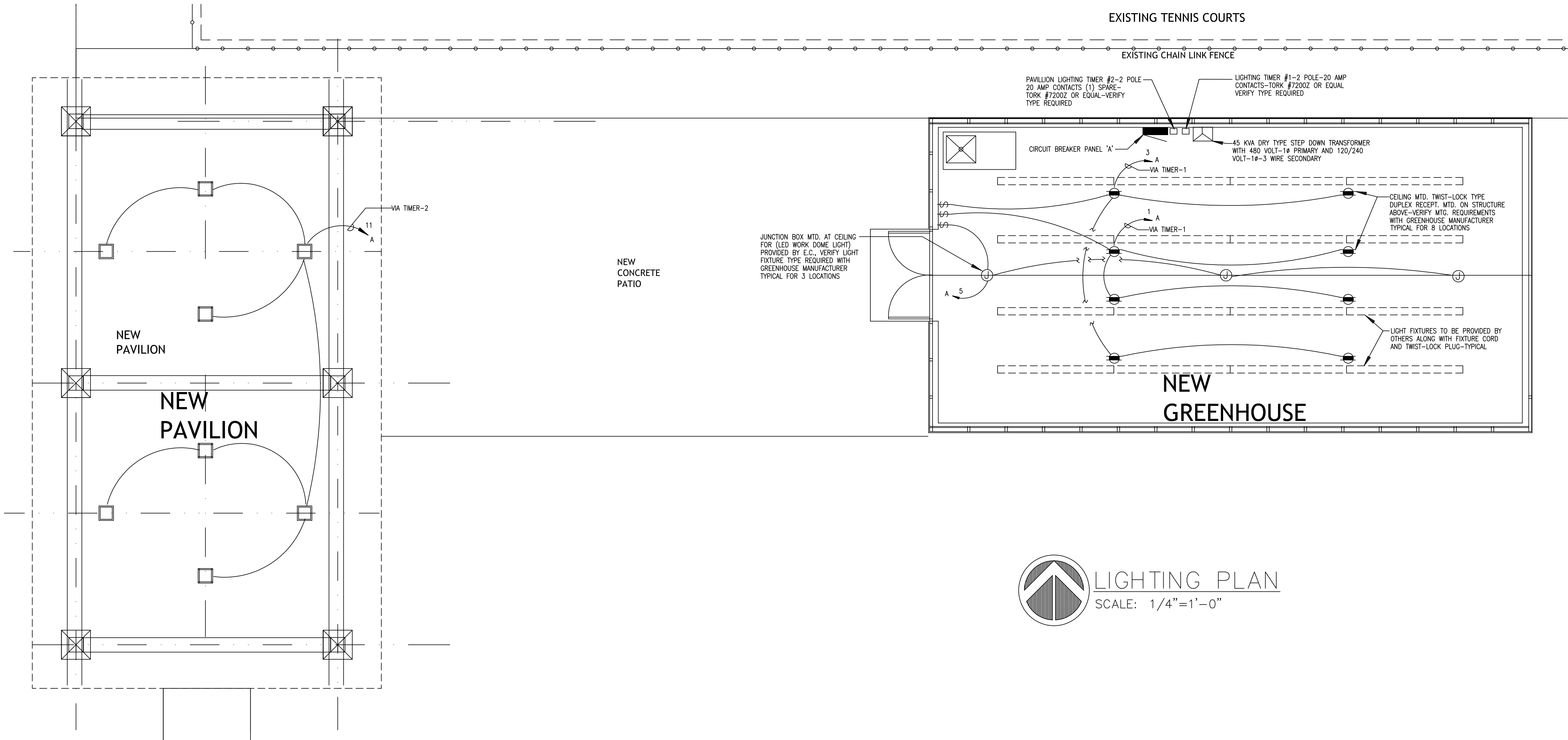
AMPS: 53.6

LOCATION: GREENHOUSE

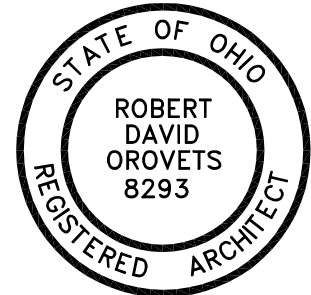
MOUNTING: SURFACE MTD.

PANEL LEGEND

G - GROUND FAULT TYPE CIRCUIT BREAKER



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



ROBERT D. OROVETS
LICENSE # 8293
EXPIRATION 12-31-2025

NEW VISTA ENTERPRISES

PO BOX 21313
CLEVELAND, OHIO 44121

ROBERT OROVETS ARCHITECT
35299 DORCHESTER ROAD
CLEVELAND, OHIO 44040
440-346-3721

PROJECT TITLE
NEW PAVILION AT:
MAGNIFICAT HIGH SCHOOL
20770 HILLARD BLVD.
ROCKY RIVER, OHIO

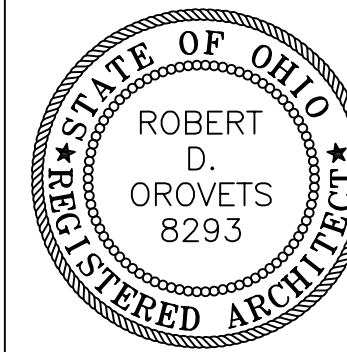
DESIGN AND CONSTRUCTION
DOCUMENTS AS INSTRUMENTS OF
SERVICE ARE THE PROPERTY OF
ROBERT OROVETS
THE USE OF THIS DESIGN AND
THESE CONSTRUCTION DOCUMENTS
FOR ANY PROJECT OTHER THAN THE
SPECIFIC PROJECT NAMED HEREIN
IS STRICTLY PROHIBITED WITHOUT
EXPRESSED WRITTEN CONSENT
OF ROBERT OROVETS

08-28-2025 PERMIT

DRAWN BY:
RDO
CHECKED BY:
RDO
SHEET NUMBER

E2

JOB NUMBER
202520



ROBERT D. OROVETS
LICENSE # 8293
EXPIRATION 12-31-2025

NEW VISTA ENTERPRISES

PO BOX 21313
CLEVELAND, OHIO 44121

ROBERT OROVETS ARCHITECT
35299 DORCHESTER ROAD
CLEVELAND, OHIO 44040
440-345-5721

PROJECT TITLE
NEW GREENHOUSE AND PAVILION AT:
MAGNIFICAT HIGH SCHOOL
20770 HILLARD BLVD.
ROCKY RIVER, OHIO

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND ARE THE PROPERTY OF ROBERT OROVETS. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN SPECIFIC PERMISSION OF ROBERT OROVETS IS STRICTLY PROHIBITED WITHOUT EXPRESSED WRITTEN CONSENT OF ROBERT OROVETS.

7-31-2025 REVIEW

DRAWN BY:
RDO
CHECKED BY:
RDO
SHEET NUMBER

T1
JOB NUMBER
202520

STRUCTURAL DESIGN CRITERIA

CODE: OHIO BLDG CODE, ADOPTED 2024

LIVE LOAD DATA:
ROOF LIVE LOAD: 30 PSF MIN.
ROOF SNOW LOAD DATA:
FLAT-ROOF SNOW LOAD, P_s : 30 PSF
SNOW EXPOSURE FACTOR, C_e : 1.0
SNOW IMPORTANCE FACTOR, I_s : 1.0
THERMAL FACTOR, C_t : 1.0
DRIFT SURCHARGE LOADS, P_d : 60 PSF
WIDTH OF SNOW DRIFT, w : 20 FEET

WIND DESIGN DATA:
ULTIMATE WIND SPEED, V_{ult} : 115 MPH
DESIGN WIND VELOCITY, V_{des} : 90 mph
RISK CATEGORY: II
EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT, GPC_i : +/- 0.18
DESIGN PRESSURE: 20 PSF

DESIGN BASIS:
ALLOWABLE STRESS DESIGN (ASD) FOR ALL MEMBERS EXCEPT CONCRETE ULTIMATE STRENGTH DESIGN (USD) FOR REINFORCED CONCRETE MEMBERS

GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. UNLESS NOTED OTHERWISE, DETAILS IN STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: OHIO BLDG CODE AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS, SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, FITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN. FLOOR AND ROOF FINISHES, DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
- REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
- CONCRETE MIXES SHALL BE CONSIDERED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. MIX DESIGN METHODS (TEST HISTORY OR TRIAL BATCH METHOD) PER ACI SECTION 5.3 SHALL BE USED TO PROPORTION CONCRETE. SUBMIT MIX DESIGN METHOD DATA IF 3-POINT CURVES ARE USED. GO TO CLEARLY IDENTIFY WHICH POINT ON CURVE IS USED AND MIX DESIGN ON 3-POINT CURVE.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES (SLUMP LISTED IS MAX):

LOCATION IN STRUCTURE	STRENGTH	W/C RATIO	SLUMP	DENSITY
• FOUNDATIONS	3000 PSI	0.55	4"	145 PCF
• SLABS ON GRADE	4000 PSI	0.45	4"	145 PCF

CONTRACTOR AT HIS OPTION MAY INCREASE SLUMP WITH USE OF HRWR ADMIXTURE. LIMIT SLUMP INCREASE TO 2" GREATER THAN THAT ALLOWED WITHOUT HRWR.

- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
- AGGREGATE FOR CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
- CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI CODE CHAPTER 5 AND PROJECT SPECIFICATIONS.
- CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
- ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- CUT JOINTS FOR SLABS ON GRADE A MAXIMUM OF 12-0" O.C., UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CUT JOINTS WITHIN 8 (EIGHT) HOURS AFTER PLACING CONCRETE.
- CONCRETE EXPOSED TO THE WEATHER, FREEZE-THAW, DEICING CHEMICALS, AND OR PARKED VEHICLES SHALL CONTAIN 6% (+/-1%) ENTRAINED AIR EITHER BY USING TYPE "A" PORTLAND CEMENTS OR ADMIXTURES CONFORMING TO ASTM C-260.
- CURE CONCRETE BY WET DURING OR LIQUID SPRAY CONFORMING TO ASTM C-309. CONTRACTOR TO VERIFY CURING AGENT IS COMPATIBLE WITH ANY FLOOR ADHESIVES SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
- ALL ADMIXTURES SHALL BE COMPATIBLE WITH ONE ANOTHER. PREFERABLY ONE MANUFACTURER SHALL BE USED FOR ALL ADMIXTURES.
- MOISTURE VAPOR REDUCING ADMIXTURE: ADD "BARRIER 1" OR SELOGIK "MVRA 900" IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS TO ALL INTERIOR CONCRETE SLABS THAT RECEIVE VOC COMPLIANT FINISHES.
- CALCIUM CHLORIDE OR CHLORIDE CONTAINING ADMIXTURES **WILL NOT** BE PERMITTED UNDER ANY CIRCUMSTANCES.
- FLYASH CONTENT, IF APPROVED IN ADVANCE BY ENGINEER, SHALL BE LIMITED TO 20% OF TOTAL CEMENTITIOUS MATERIAL OR 25% OF PORTLAND CEMENT CONTENT. IF FLYASH IS USED, CONTRACTOR SHALL TAKE ADDITIONAL CONCRETE TEST CYLINDERS FOR 56 DAY BREAKS.
- DURING HOT WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 305. DURING COLD WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 306.

CODE DATA

APPLICABLE CODE:
OHIO BUILDING CODE 2024 W/ UPDATES
OHIO PLUMBING CODE 2024 W/ UPDATES
OHIO MECHANICAL CODE 2024 W/ UPDATES
NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION
ADAAG ADA ACCESSIBILITY GUIDELINES

NEW UTILITY BUILDING- GREENHOUSE 892 SF
NEW UTILITY BUILDING- OPEN PAVILION 760 SF

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION
NEW GREENHOUSE SECTION 304[USE GROUP U-UTILITY]

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
508.3.2 NONSEPARATED OCCUPANCIES

CHAPTER 6 TYPES OF CONSTRUCTION
SECTION 602 CONSTRUCTION CLASSIFICATION
602.3 TYPE 3B BUILDING

CHAPTER 7 FIRE-RESISTANCE-RATED CONSTRUCTION
SECTION 706 FIRE BARRIERS

SECTION 708 FIRE PARTITIONS
708.3 FIRE-RESISTANCE RATING. FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

CHAPTER 8 INTERIOR FINISHES
WALL AND CEILING FINISHES

CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

CHAPTER 11 ACCESSIBILITY
COMPLY WITH ADAAG ADA ACCESSIBILITY GUIDELINES.

CHAPTER 10 MEANS OF EGRESS
SECTION 1004 OCCUPANT LOAD.

OCCUPANT LOAD AT ACCESSORY USE-(TABLES AND CHAIRS)
892/ 300= 3 OCCUPANTS

TOTAL OCCUPANTS = 3 OCCUPANTS

SECTION 1005 EGRESS WIDTH
TABLE 1005.1 EGRESS WIDTH PER OCCUPANT SERVED

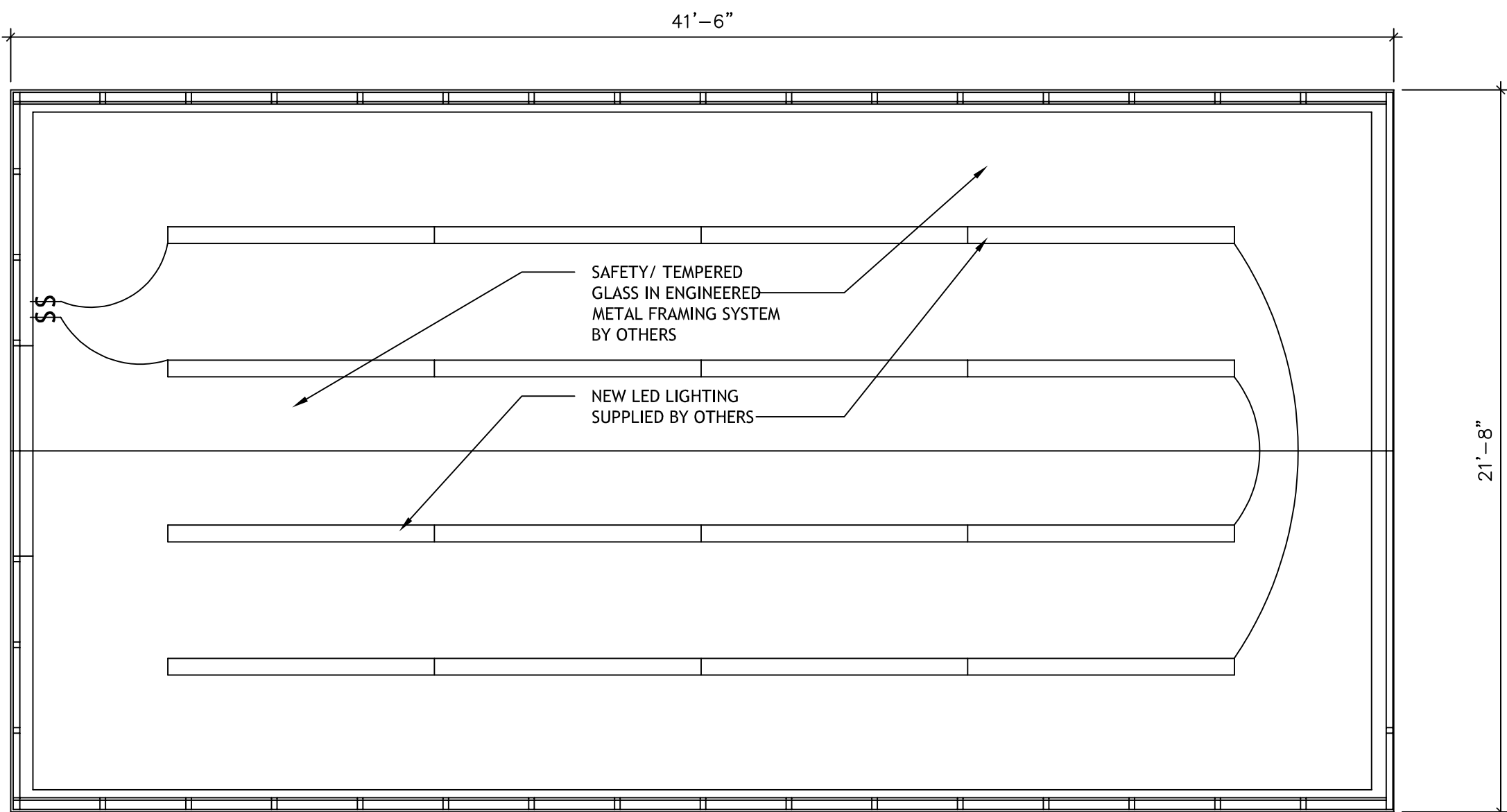
3 X 0.20 = .6 INCHES REQUIRED
72 INCHES PROVIDED

SECTION 1011 EXIT SIGNS
1011.1 WHERE REQUIRED. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN A CORRIDOR IS MORE THAN 100 FEET OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.

SECTION 1016 EXIT ACCESS TRAVEL DISTANCE.
TABLE 1016.1 EXIT ACCESS TRAVEL DISTANCE

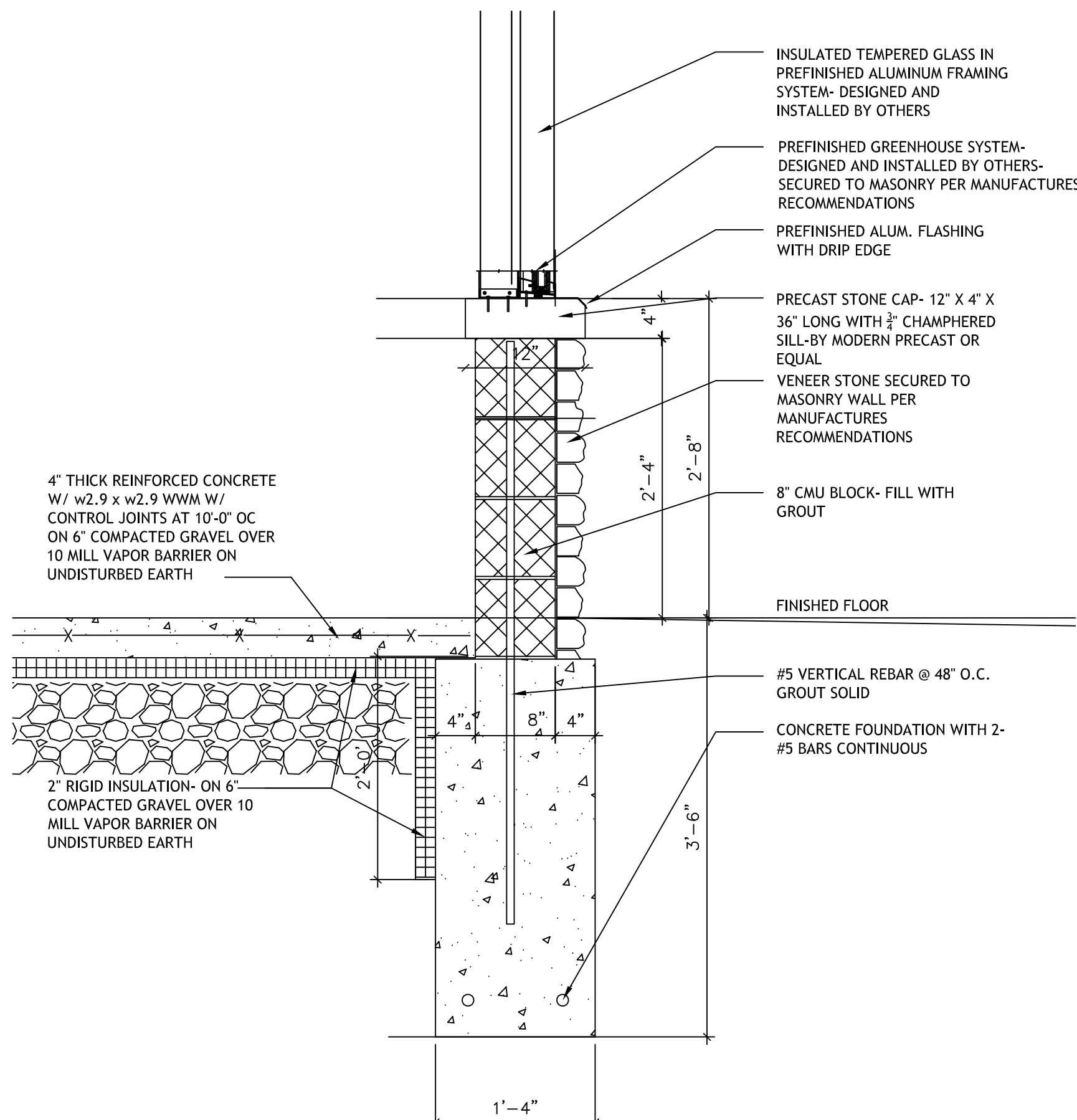
SECTION 1019 NUMBER OF EXITS AND CONTINUITY- 1 EXITS REQUIRED; 1 EXIT PROVIDED.

CHAPTER 29 PLUMBING SYSTEMS
EXITING BATHROOMS, DRINKING FOUNTAINS AND JANITORS SINKS TO BE USED FOR GREENHOUSE



2 CEILING PLAN

T1 SCALE: 1/4" = 1'- 0"



1 WALL SECTION

T1 SCALE: 1" = 1'- 0"

DRAWING INDEX

NO.	TITLE
T1	SPECIFICATIONS, DETAILS, CODE DATA
SP1	SITE PLAN, ENLARGED SITE PLAN, CODE DATA
A1	GREENHOUSE FOUNDATION, FLOOR CEILING PLAN, ELEVATIONS
A2	PAVILION FOUNDATION, FLOOR CEILING PLAN, ELEVATIONS
A3	PAVILION DETAILS
E1	ELECTRICAL POWER PLAN, DETAILS
E2	ELECTRICAL LIGHTING PLAN, DETAILS
M1	MECHANICAL PLAN
M2	MECHANICAL SPECIFICATIONS