

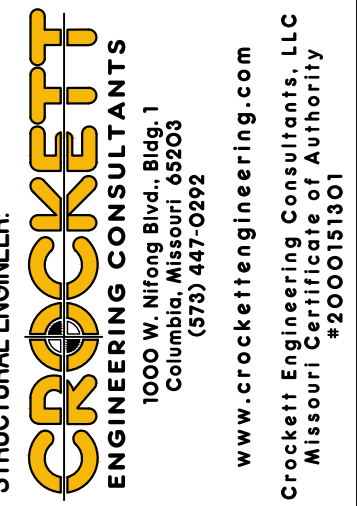
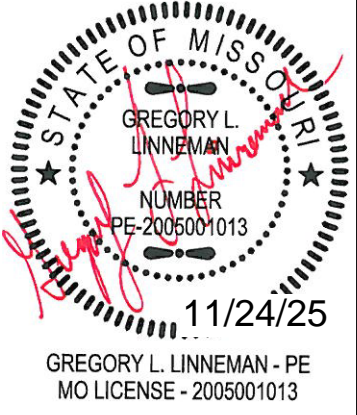
Vibe City Dispensary

Wentzville, St. Charles County, Missouri

REVISIONS:

No.	Date
DESIGN SET	11/27/2024
REVISION #1	11/27/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.



CLIENT:
LCS LLC
1027 COOK SPRINGS INDUSTRIAL DR
O'FALLON, MO

STRUCTURAL ENGINEER:
GROCKETT
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MISSOURI PROFESSIONAL ENGINEER
NO. 200200103

Vibe City Dispensary
Wentzville, St. Charles County, Missouri

DRAWING INCLUDES:

GENERAL STRUCTURAL DATA

DESIGNED: GLL

DRAWN: SEH

PROJECT NO.: 250501

SHEET:

S100

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2021 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
 - FOUNDATIONS - 3,000 PSI, 500# MIN. CEMENT/FLY ASH, 0.45 W/C RATIO
 - CAST-IN-PLACE WALLS - 3,500 PSI, 540# MIN. CEMENT/FLY ASH, 0.45 W/C RATIO
 - FLOOR SLAB - 4,000 PSI, 565# MIN. CEMENT ONLY, 0.45 W/C RATIO
 - EXTERIOR SLABS, WALLS AND CURBS - 4,000 PSI, 565# MIN. CEMENT/FLY ASH, 0.42 W/C RATIO
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DECOR CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
 - CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
 - EXPOSED TO EARTH OR WEATHER.....2 INCHES
 - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1 1/2 INCHES
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309, ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.
 - ALL FLOOR SLABS ON GRADE/ELEVATED SLABS SHALL HAVE CONCRETE MOISTURE VAPOR REDUCING ADMIXTURE IN CONCRETE @ THE SUPPLIER'S RECOMMENDED DOSAGE.

STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREA SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

BRICK LINTEL

- ALL STEEL LINTELS TO BE A36 STEEL, A992 GRADE 50, OR A500 GRADE B. ALL LINTELS TO BE HOT DIPPED GALVANIZED.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HITL HITL TO ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HITL HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

MASONRY

MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 REGULAR WEIGHT GRADE N1.
- COURSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
- MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270. AVERAGE COMPRESSIVE STRENGTH IS 2,000 PSI.
- MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY: f_m = 2,000 PSI.
- WIRE REINFORCING SHALL CONFORM TO ASTM A82, STANDARD TRUSS-TYPE DUP-O-WALL REINFORCING (OR APPROVED EQUAL) AND SHALL BE PLACED CONTINUOUSLY IN ALTERNATE HORIZONTAL MORTAR JOINTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60. THE MINIMUM LAP FOR SPLICES SHALL BE 48 BAR DIAMETERS. PROVIDE DUP-O-WALL REBAR POSITIONERS.
- ALL STEEL LINTELS TO BE A36 STEEL OR A992 GRADE 50. ALL LINTELS TO BE HOT DIPPED GALVANIZED.
- INTERSECTING STRUCTURAL WALLS SHALL BE ANCHORED BY STEEL CONNECTORS SPACED VERTICALLY AT 48" O.C. MAXIMUM. THE CONNECTORS SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM SECTION OF 1" x 1 1/2". THEY SHALL BE 28" LONG WITH 2" AT EACH END BENT AT 90 DEGREES TO FORM A "U" OR "Z" SHAPE. ALL CELLS ABOVE AND BELOW THE ANCHOR SHALL BE GROUTED, AND THE BENT ENDS OF THE CONNECTORS SHALL BE EMBEDDED IN THE GROUT, 2" MIN.
- EXPANSION JOINTS SHALL BE PROVIDED IN CMU BLOCK WALLS FULL HEIGHT OF WALL AT INTERVALS NOT EXCEEDING 24'-0". NOT CLOSER THAN 2'-8" FROM OPENINGS. JOINT REINFORCING SHALL BE SEVERED AT EXPANSION JOINT LOCATIONS, HOWEVER BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT.
- BOND BEAMS OR GROUTED CELLS ARE REQUIRED AT ALL CONNECTIONS TO CMU.

TIMBER

TIMBER WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ANS/AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT FOR WOOD CONSTRUCTION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

- FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - A. 2X4 SPF No.1/No.2
 - B. 2X6 SPF No.1/No.2
 - C. 2X8 DF-L No.2
 - D. 2X10 DF-L S.S.
 - E. 2X12 DF-L S.S.
- EQUIVALENT (OR BETTER) GRADES & SPECIES MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.
- SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.
- TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.
- SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.
- BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 12.1.3 OF THE 2018 ANS/AWC NDS FOR WOOD CONSTRUCTION NDS SUPPLEMENT.
- LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 12.1.4 & 12.1.5 RESPECTIVELY OF THE 2018 ANS/AWC NDS FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT.
- COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 12.1.6.3 OF THE 2018 ANS/AWC NDS FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT.
- FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
- CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

PREFABRICATED WOOD TRUSSES

- FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANS/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
 - PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
 - FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
 - A. DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
 - B. MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HING ANYWHERE ALONG THE BOTTOM CHORD.
 - C. OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
 - D. DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
 - E. IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
 - CABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
 - SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - A. SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.
- PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAMS, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- CONCRETE GROUT DESIGN MIX (PERIODIC)
 - PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
 - BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
 - STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
 - STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
 - POST-INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
 - IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
 - MASONRY AND REINFORCING STEEL (CONTINUOUS ON CELL GROUTING / PERIODIC ON REINFORCING)
 - WOOD FRAMING:
 - SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - FRAMING MEMBERS AND DETAILS (PERIODIC)
 - MATERIAL GRADE (PERIODIC)
 - CONNECTIONS, HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
 - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

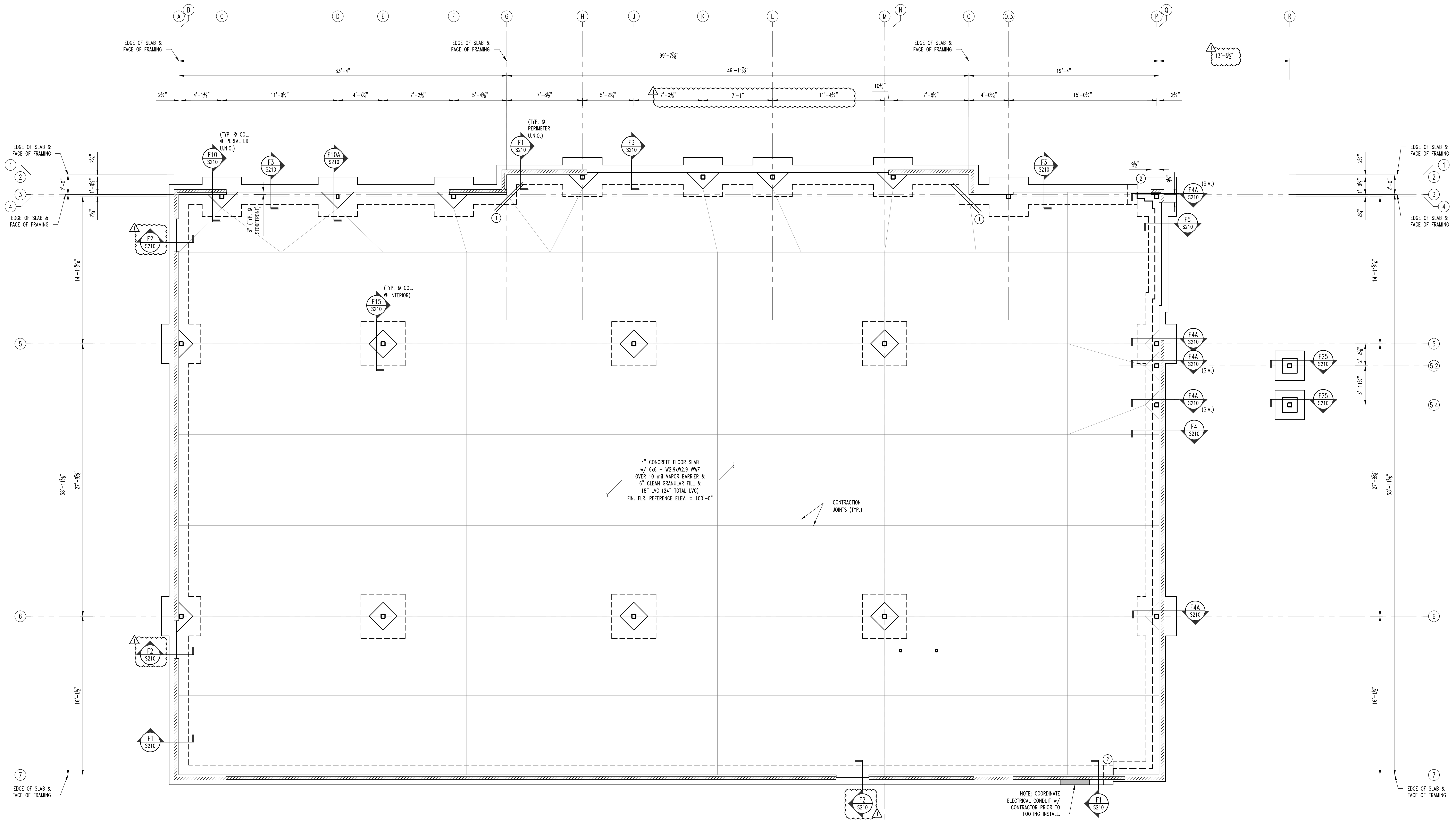
DESIGN DATA	
2021 INTERNATIONAL BUILDING CODE / ASCE 7-16	
BUILDING OCCUPANCY CATEGORY	II
ROOF LOAD DATA	
LIVE LOAD	20
ASPHALT SHINGLES + FELT	3.0
5/8" OSB ROOF SHEATHING	3.0
PRE-ENGINEERED WOOD TRUSSES #2'-0" O.C.	3.0
INSULATION BELOW	3.0
MECHANICAL ALLOWANCE	5.0
5/8" GYP CEILING	3.0
SOLAR	5.0
TOTAL TO TRUSSES	45 lbs/sqft
RAIN LOADING	
15 MINUTE RAIN INTENSITY	6.67 in/yr
60 MINUTE RAIN INTENSITY	3.19 in/yr
ROOF SNOW LOAD DATA: (UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD WHERE APPLICABLE)	
p _s =	20 lbs/sqft
C _s =	1.0
I _s =	1.0
C _e =	1.0
p _f =	14.00 lbs/sqft
WIND DESIGN DATA	
V _w =	15 MPH @ 3-SECOND GUST
RISK CATEGORY	II
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT =	+ 0.18
DIRECTIONAL PROCEEDURE (AWFRS - ASCE 7, CH 27; CBC - ASCE 7, CH 30, PART 4)	
MAXIMUM COMPONENTS & CLADDING WIND	+/- 35.2 lbs/sqft
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	II
I _e =	1.0
S _{ps} =	0.288
S _{ps} =	0.59
SITE CLASS	D (UNKNOWN)
S _{ms} =	0.302
S _{ms} =	0.201
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM =	
LIGHT-FRAME WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
R _w =	6.5
Ω _w =	3.0
C _d =	4.0
DESIGN BASE SHEAR	V = 0.047W
EQUIVALENT LATERAL FORCE PROCEDURE	
NET ALLOWABLE SOIL BEARING	1500 lbs/sqft**
(**ASSUMED PER IBC TABLE 1806.2. PRESUMPTIVE LOAD-BEARING VALUES)	

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FOUNDATION DETAILS	S210
FRAMING PLAN	S300
FRAMING DETAILS	S310

NOTE:
 ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
 EDGE OF SLAB OR TRUSS/RAFTER, OR CENTERLINE
 OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

- REINFRANT CORNER BARS, REFER TO TYPICAL CRACK CONTROL REINFORCING DETAIL ON SHEET S210.
- FOOTING STEP, REFER TO DETAIL FS1/S210.



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

REVISIONS:

No.	Date
1	11/17/2024
2	11/24/2024

THIS SHEET HAS BEEN SIGNED AND DATED ELECTRONICALLY



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 1027 COO SPRINGS INDUSTRIAL DR
 FALCON MO

CLIENT:

Vibe City Dispensary
 Wentzville, St. Charles County, Missouri

DRAWING INCLUDES:

FOUNDATION PLAN

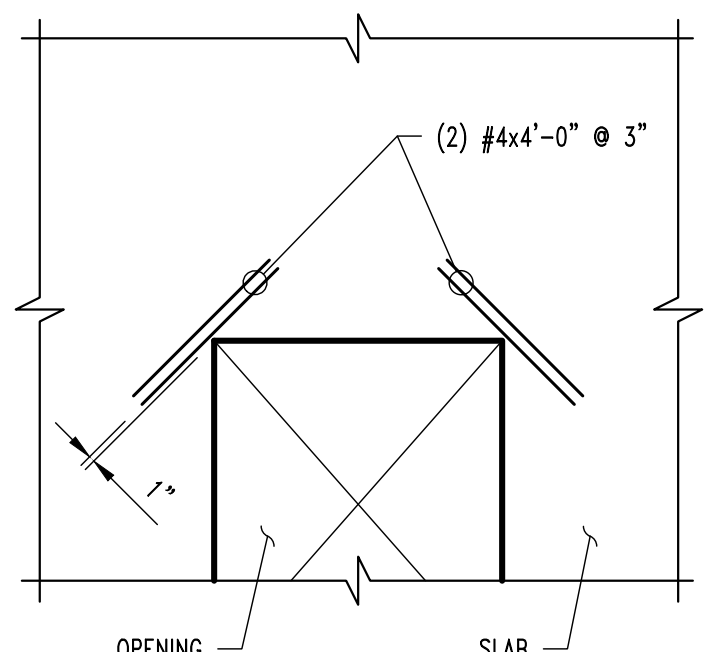
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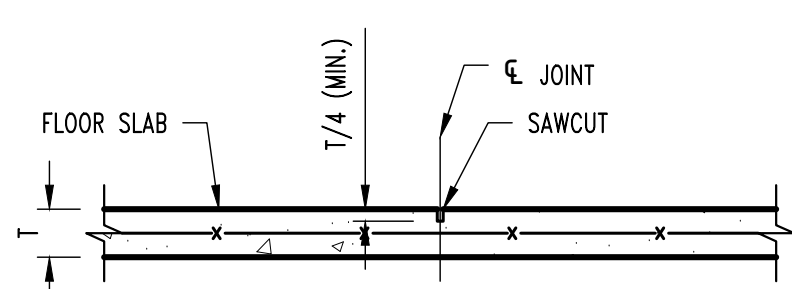
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S200

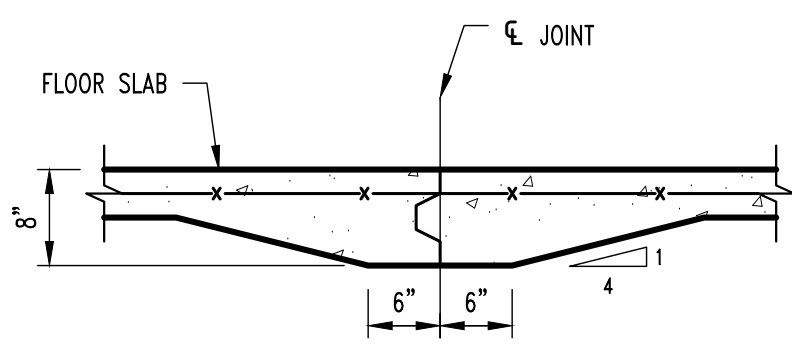


NOTE:
TYPICAL AT ALL REINTRANT CORNERS FOR SLAB-ON-GRADE & STRUCTURAL SLAB. REINFORCING TO BE CENTERED IN SLAB THICKNESS.

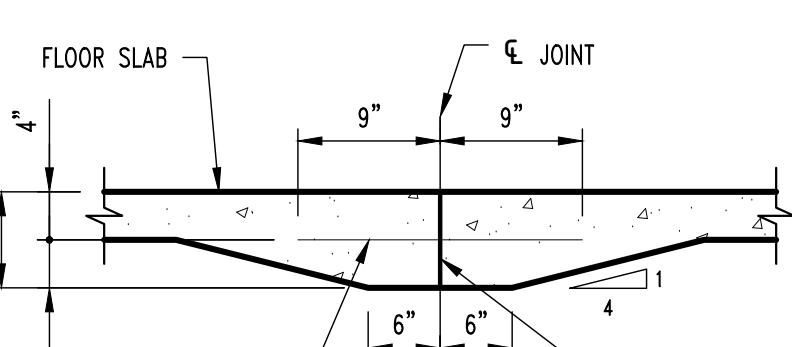
CRACK CONTROL REINFORCING



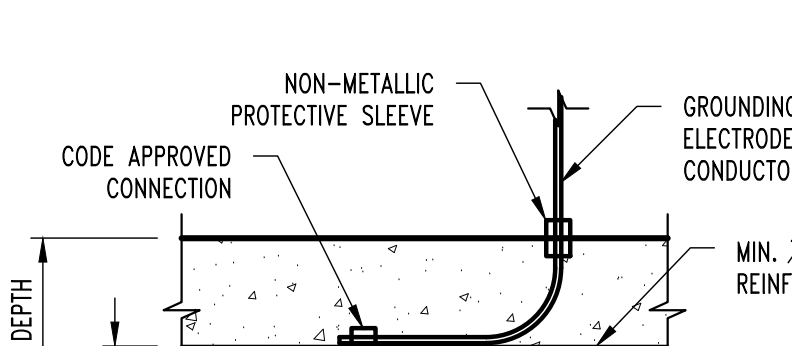
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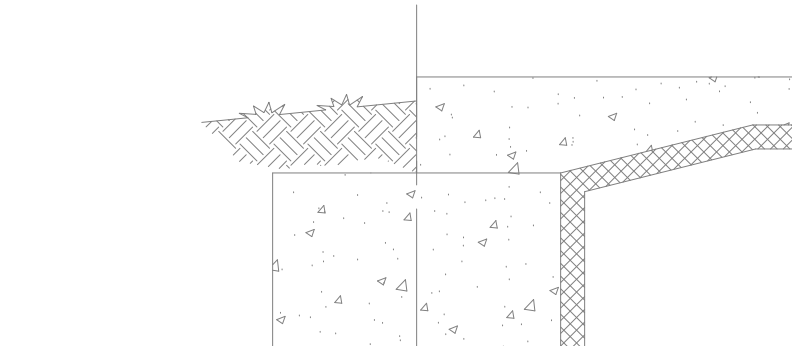
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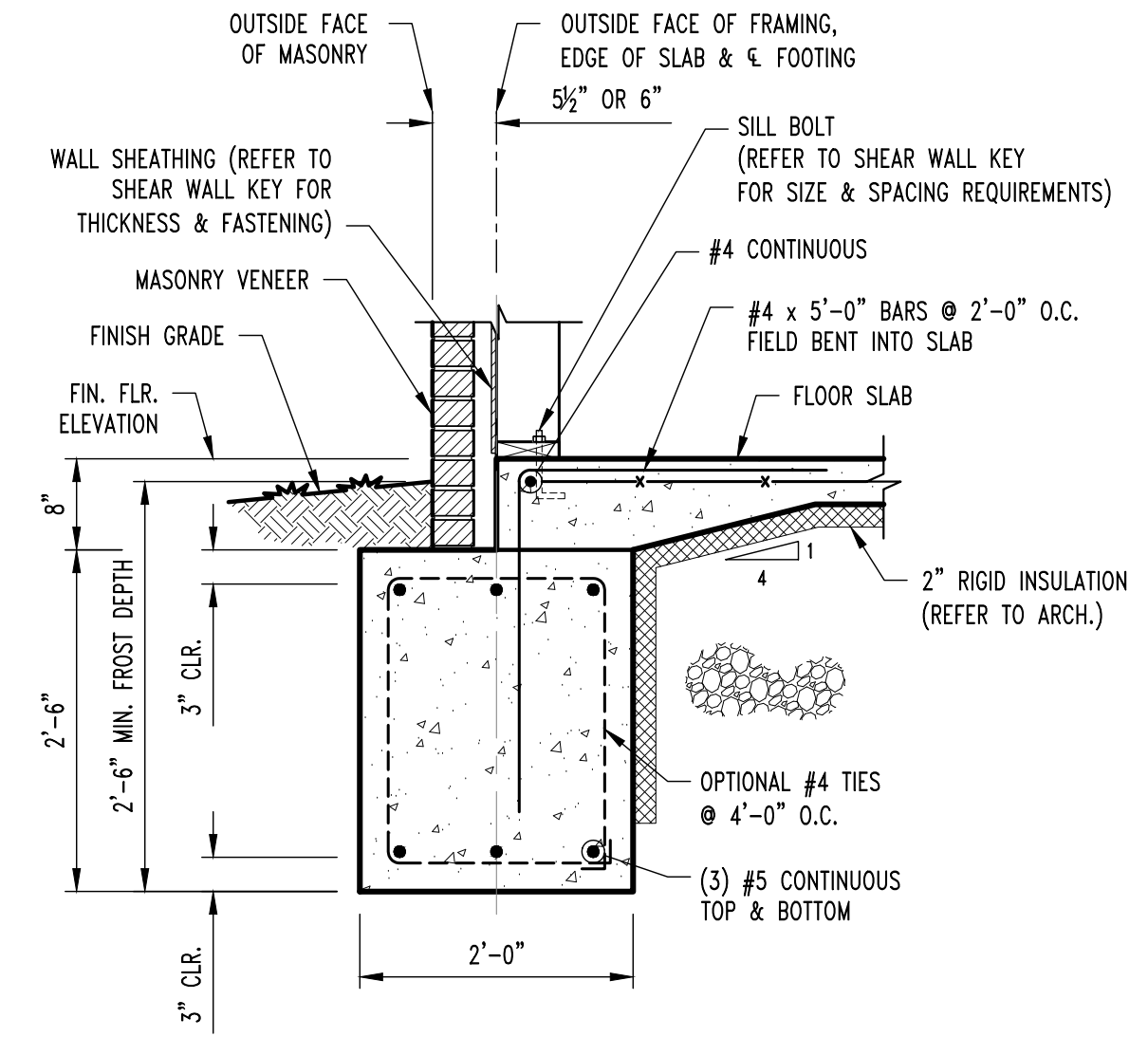
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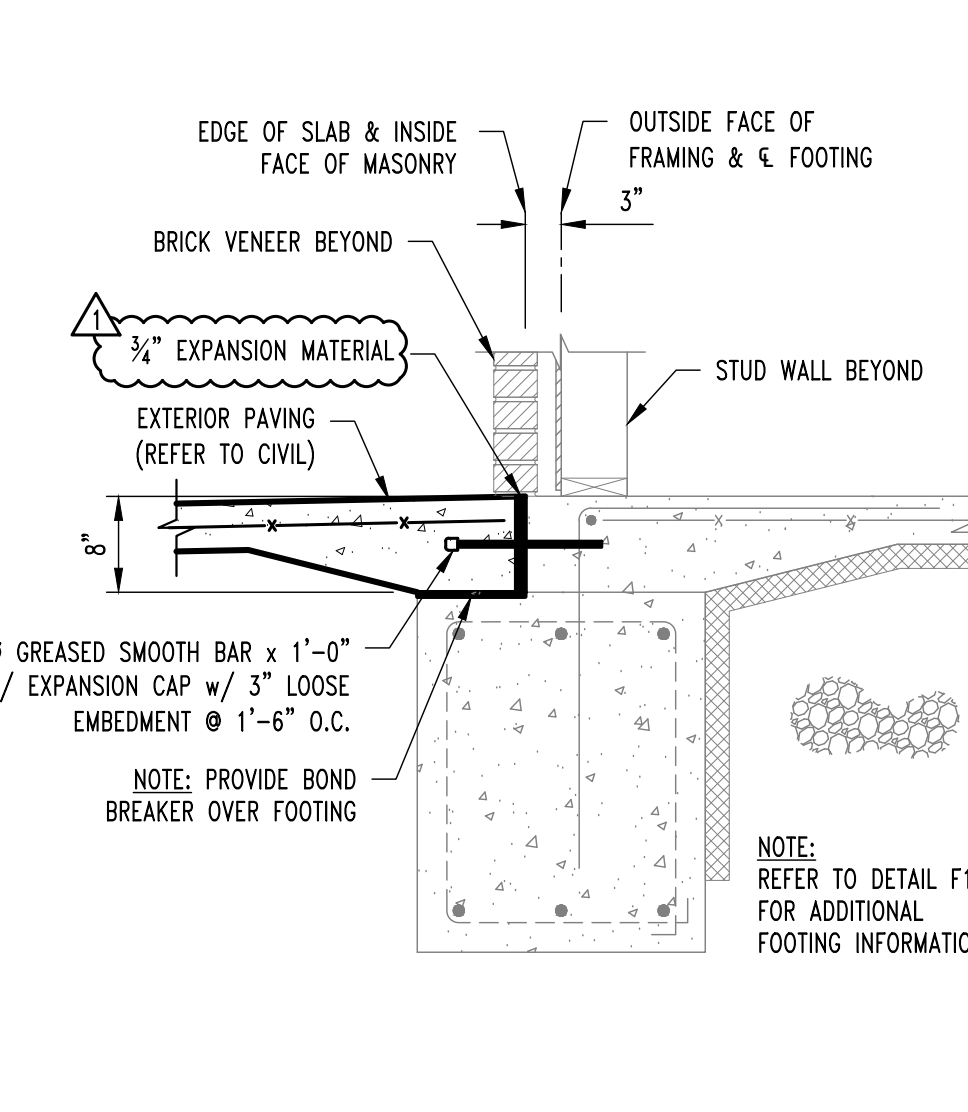
TYP. ELECTRICAL GROUNDING DETAIL @ FOOTING



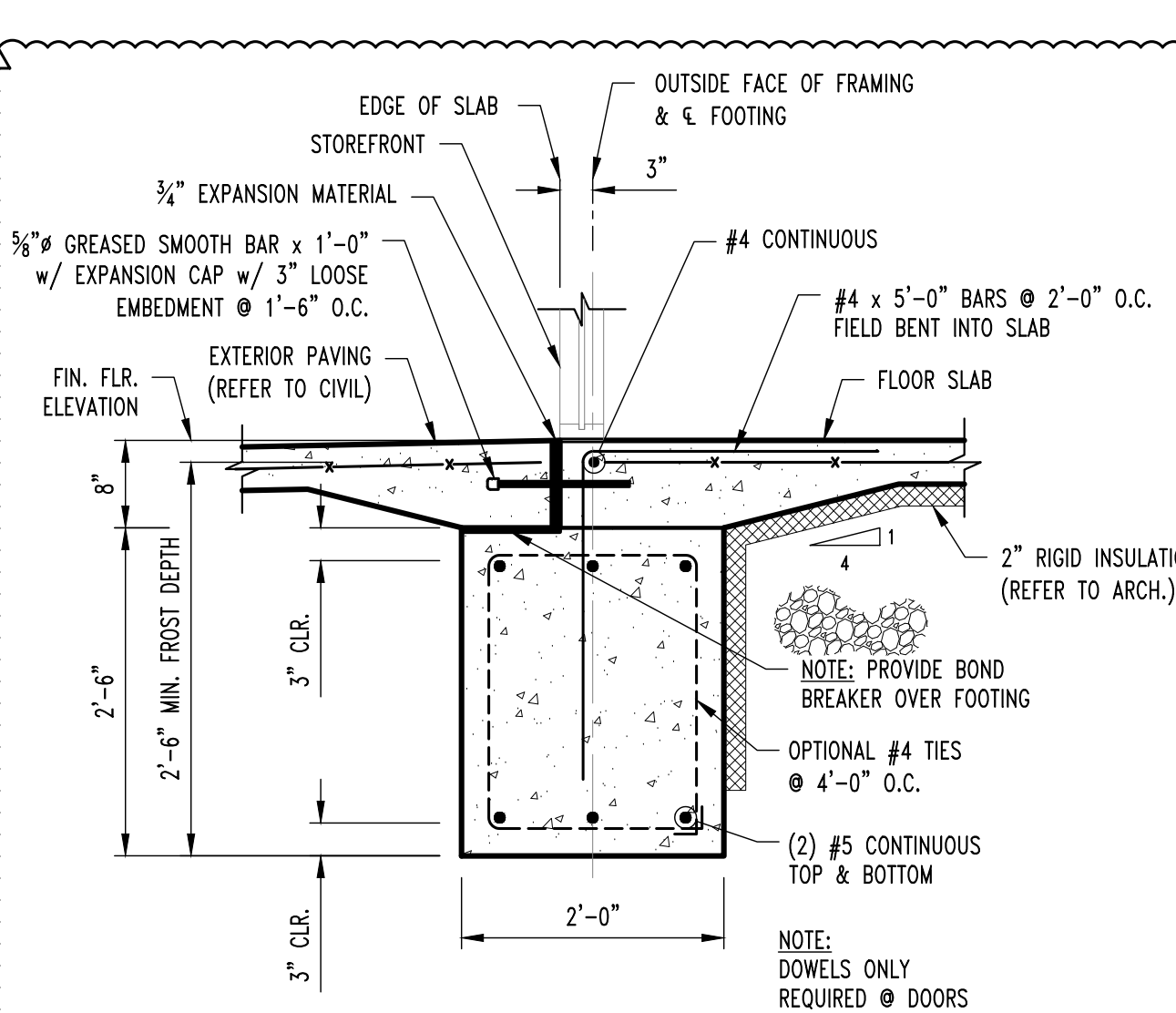
TYP. PLUMBING COORDINATION DETAILS



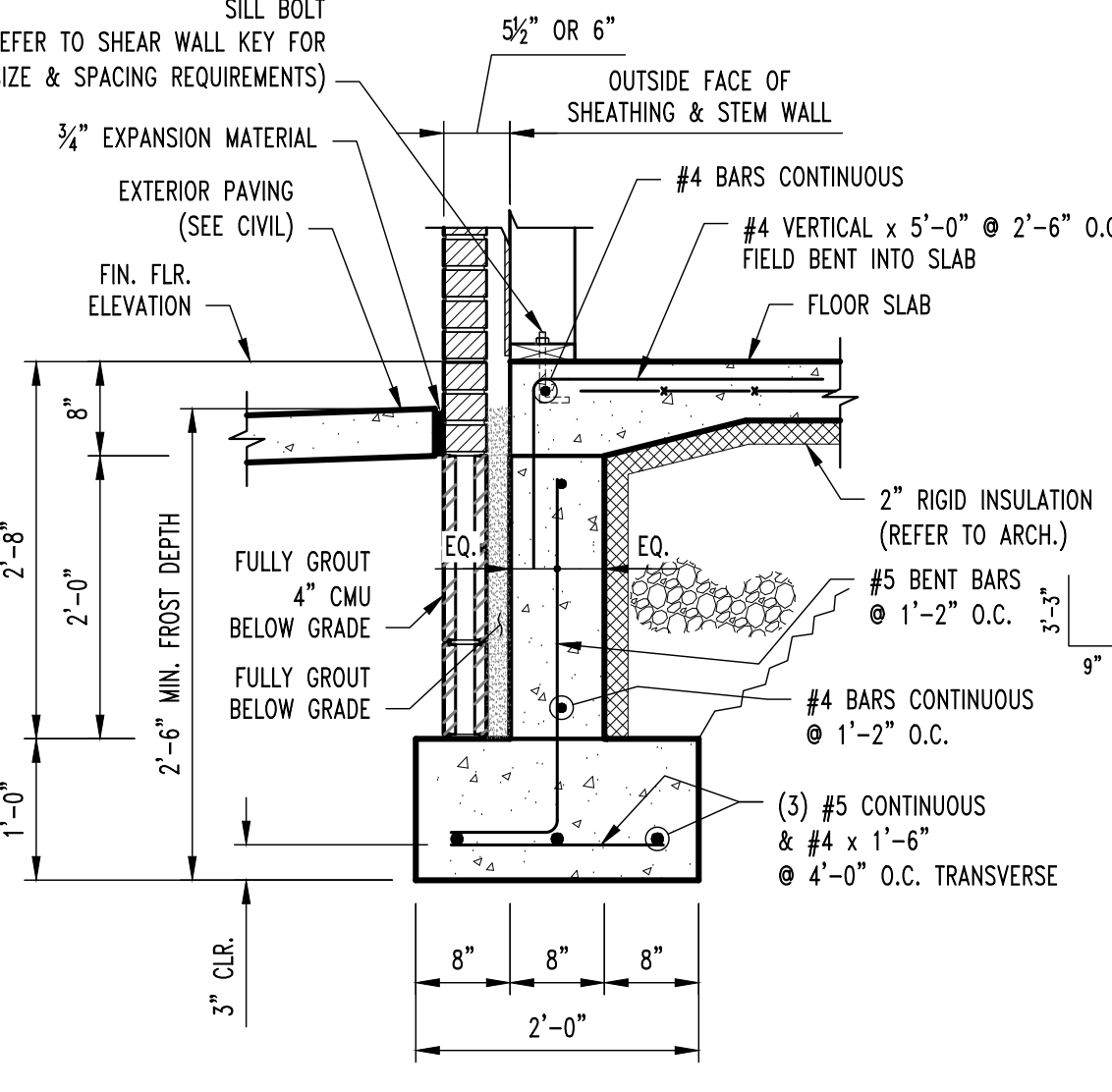
CONT. FOOTING SECTION
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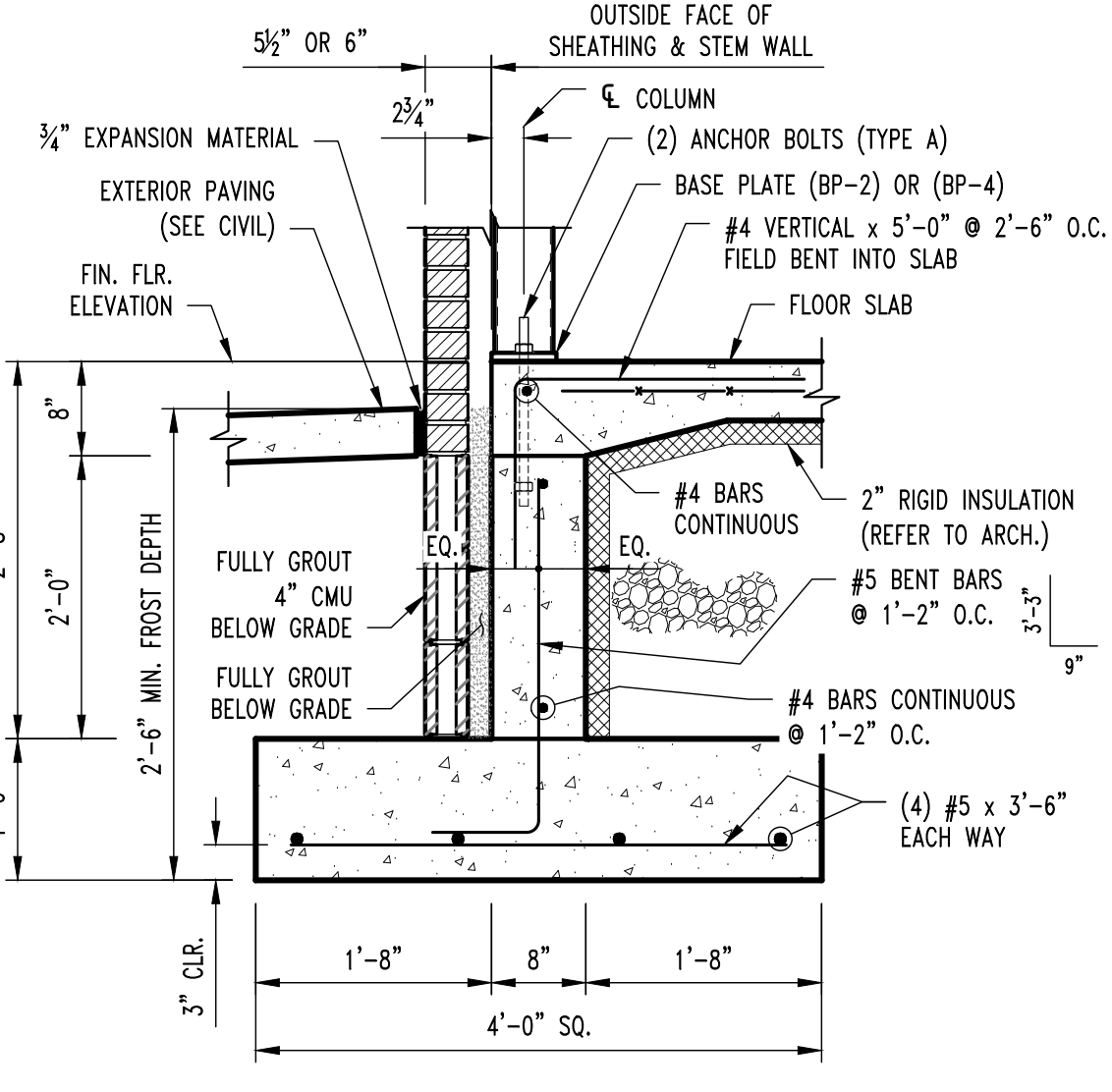
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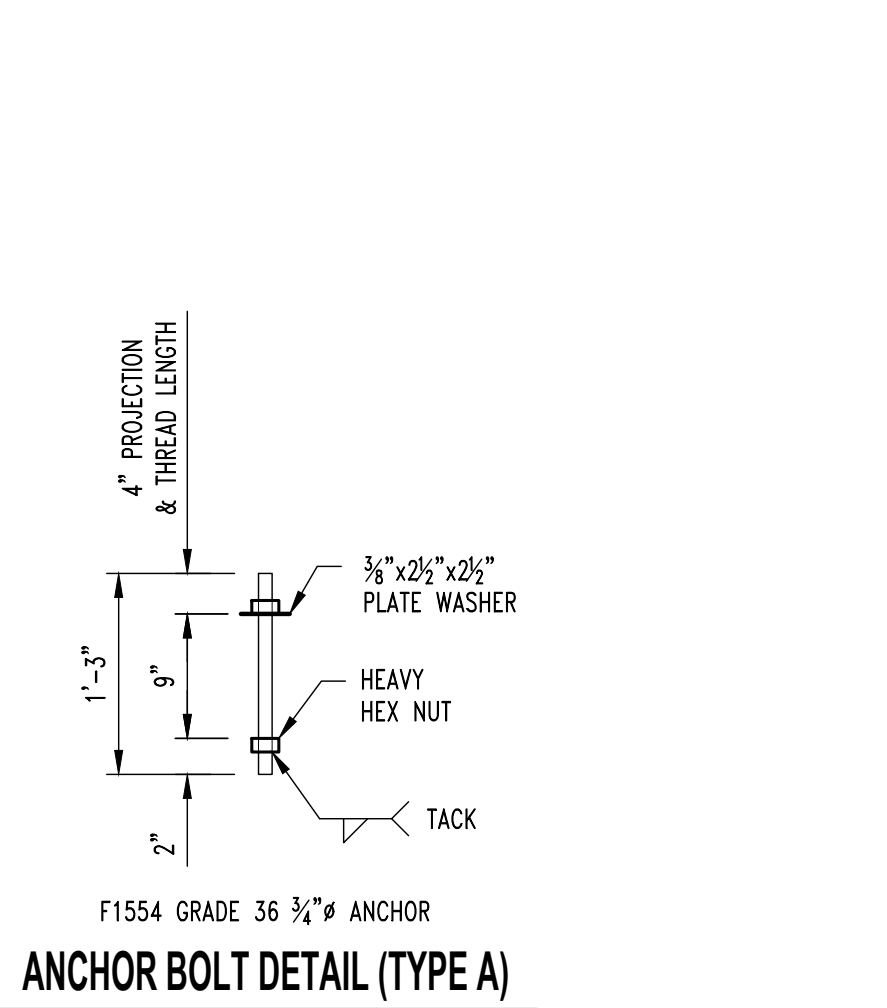
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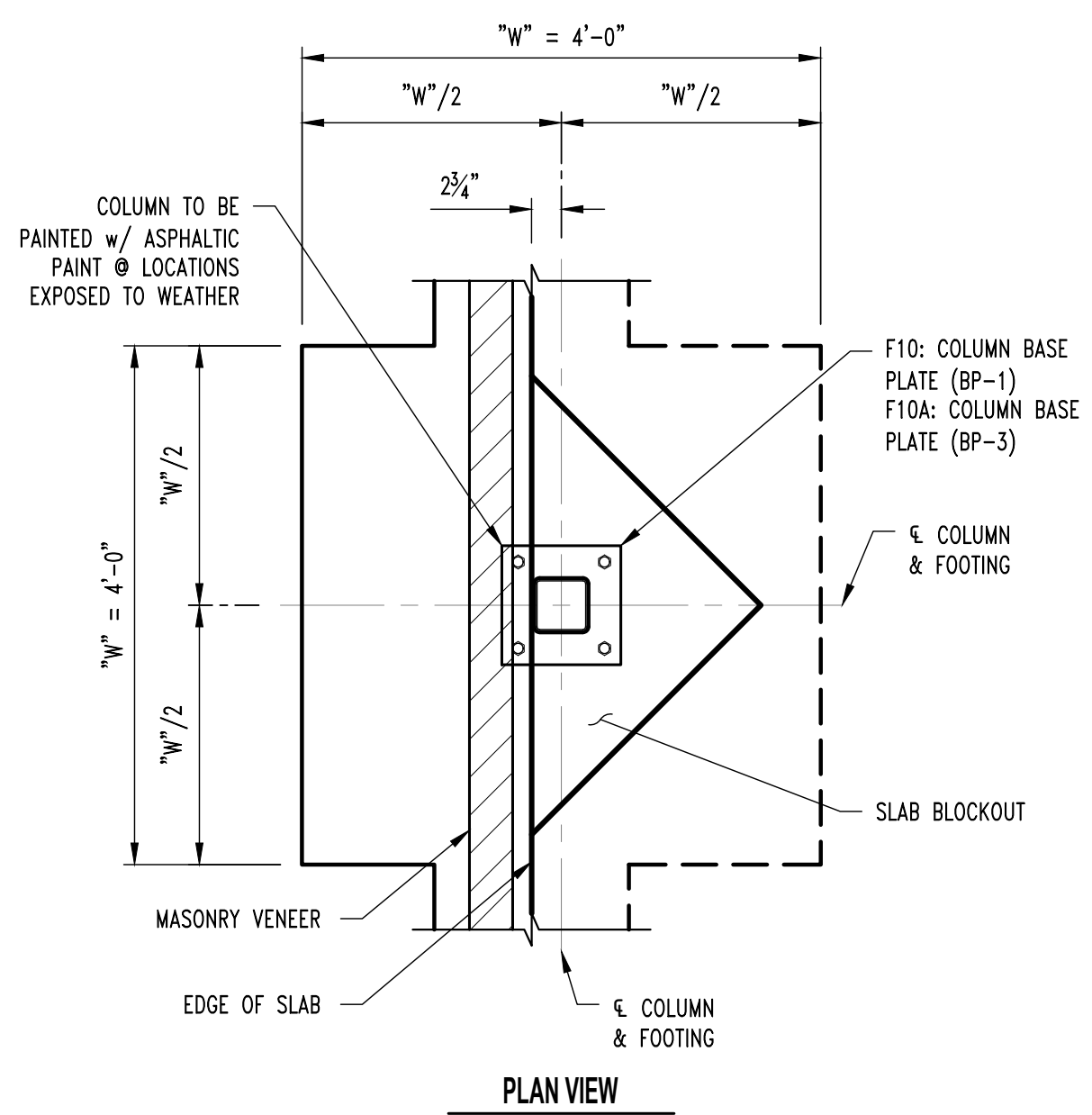
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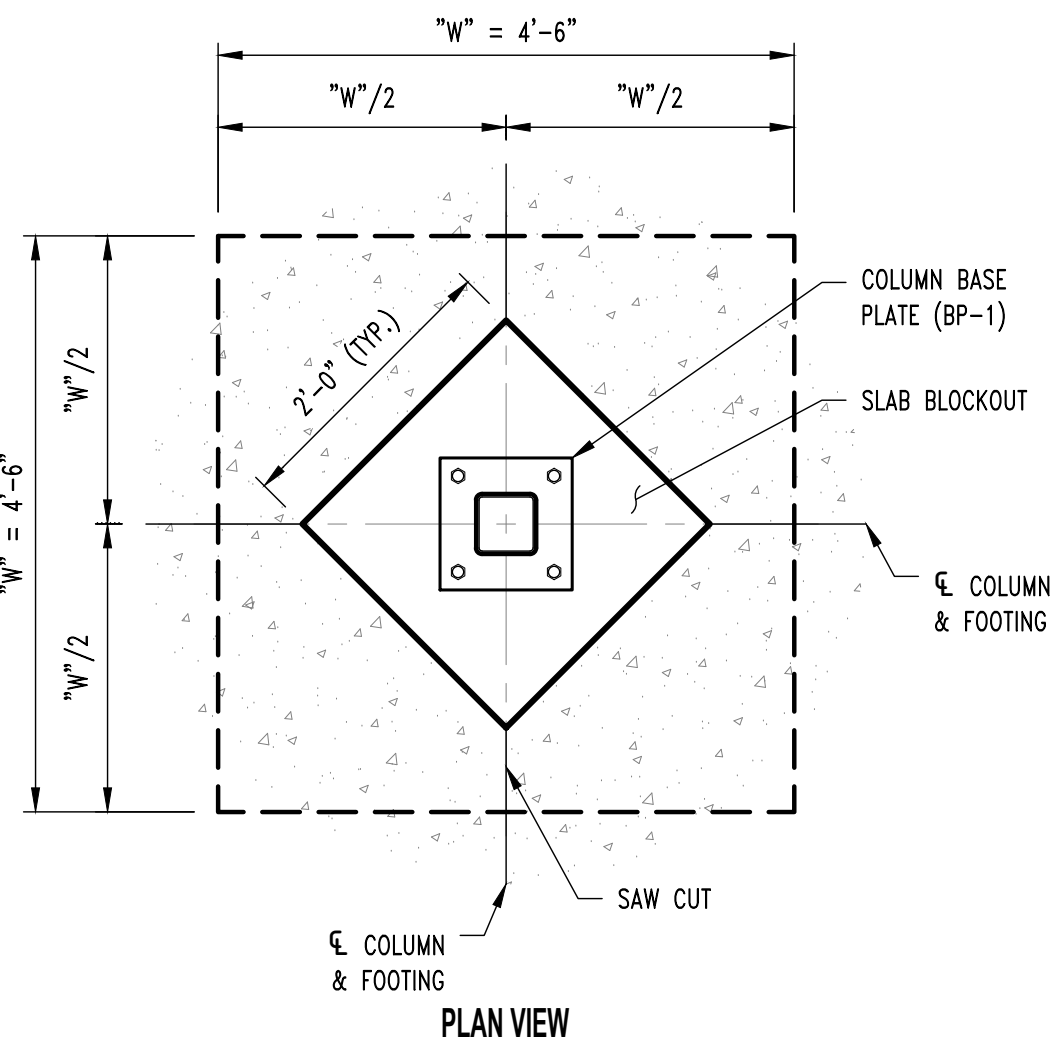
CONT. FOOTING SECTION
SCALE: 3/4" = 1'-0"



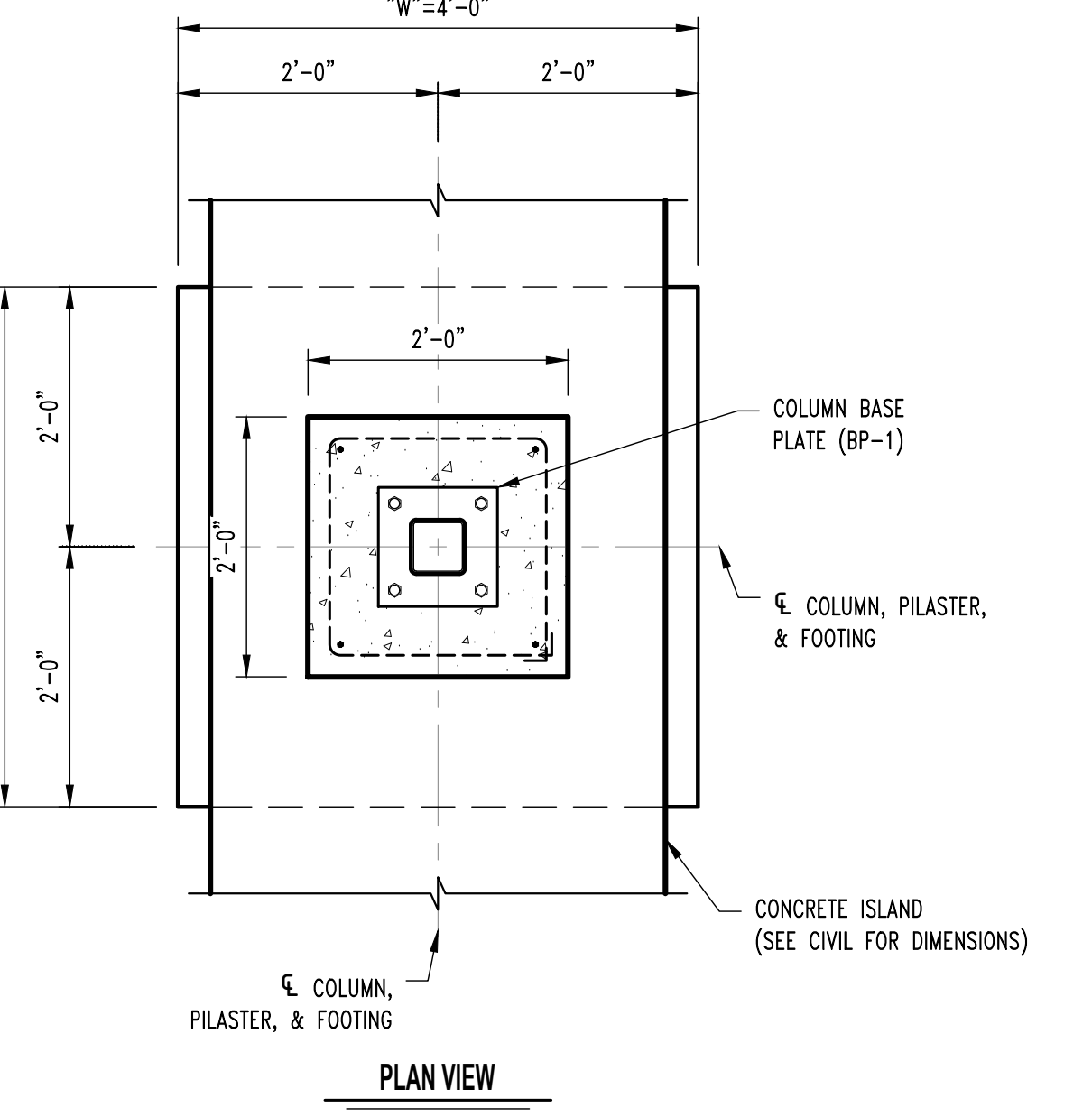
ANCHOR BOLT DETAIL (TYPE A)



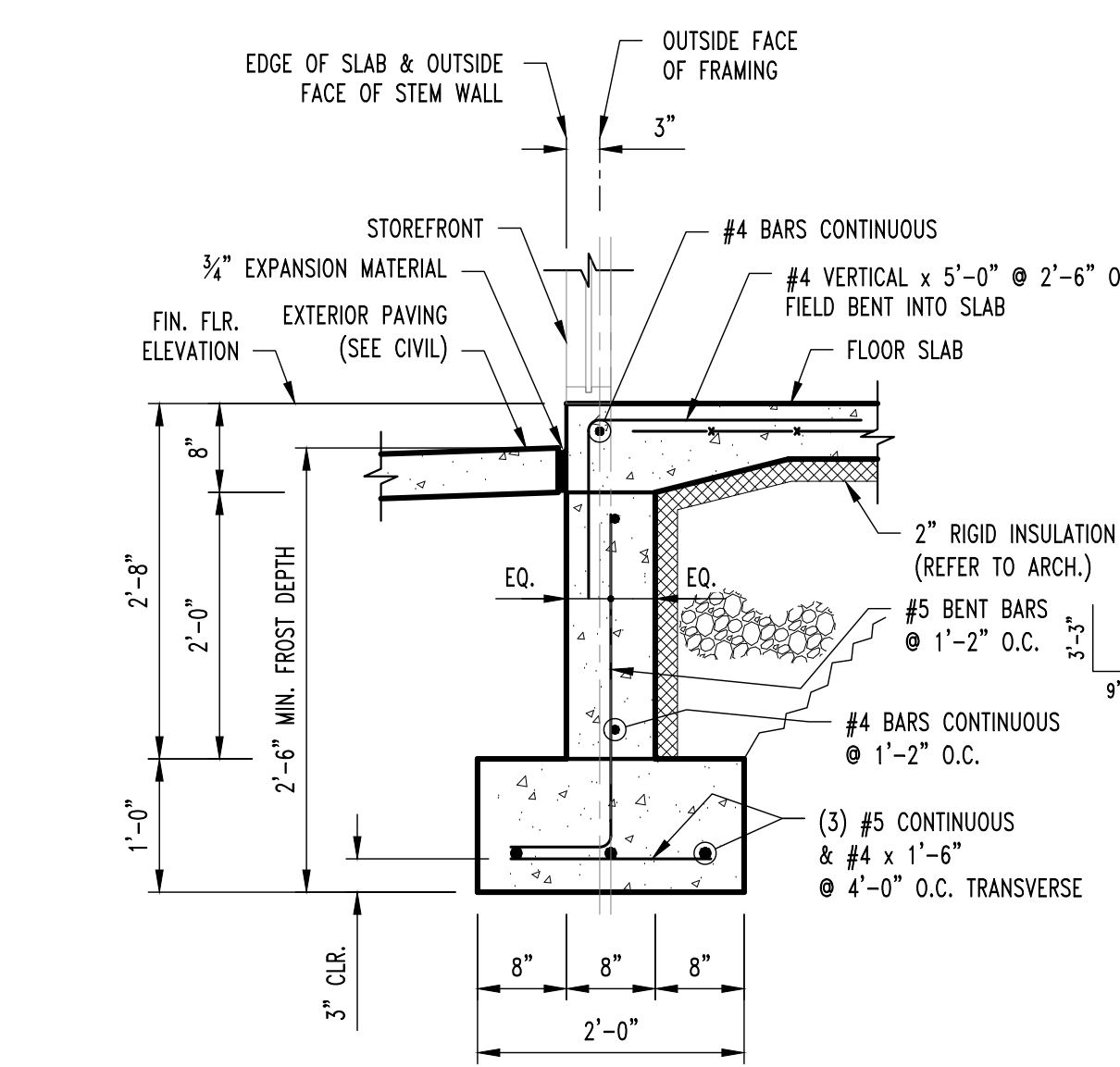
PLAN VIEW



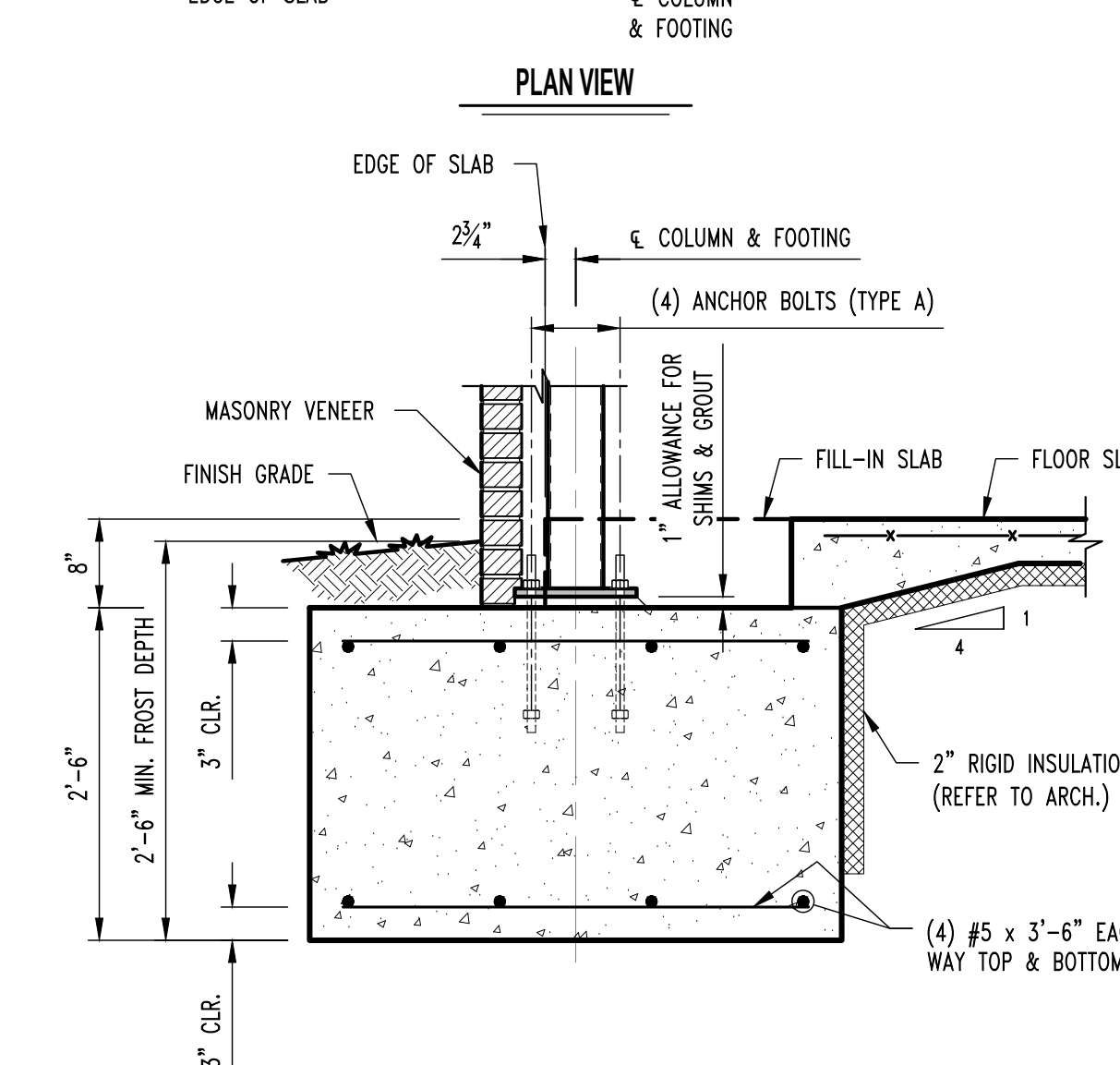
PLAN VIEW



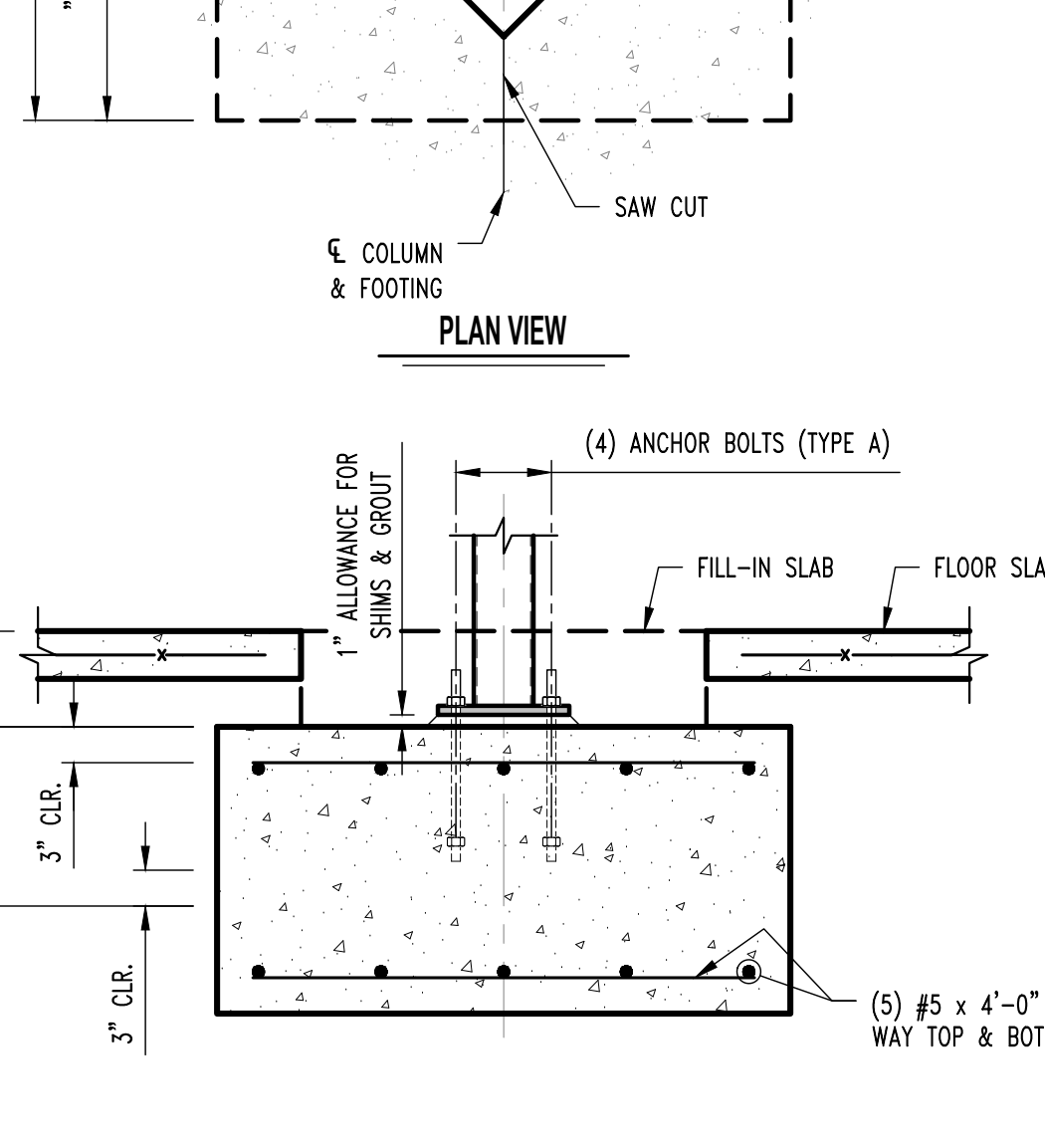
PLAN VIEW



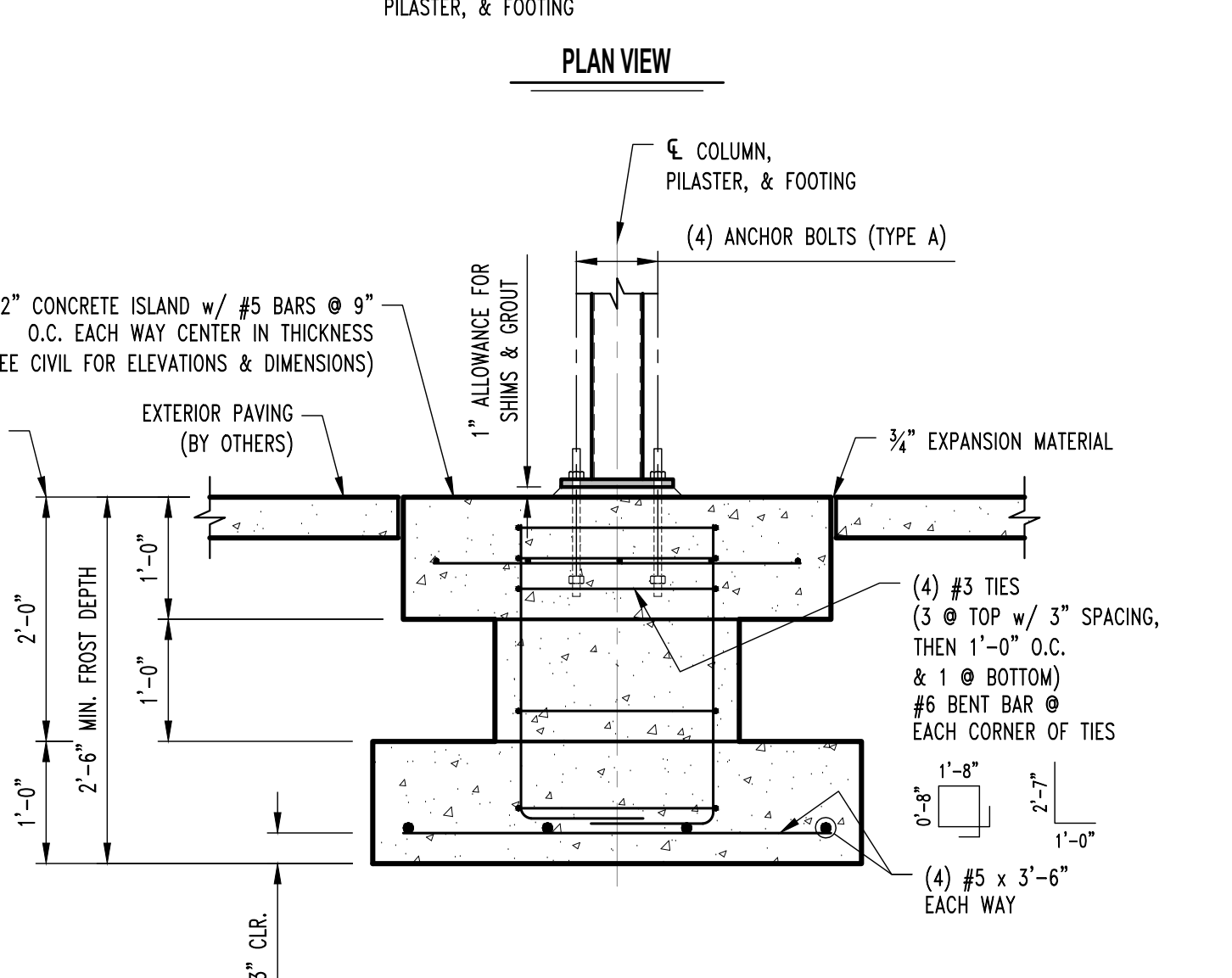
CONT. FOOTING SECTION
SCALE: 3/4" = 1'-0"



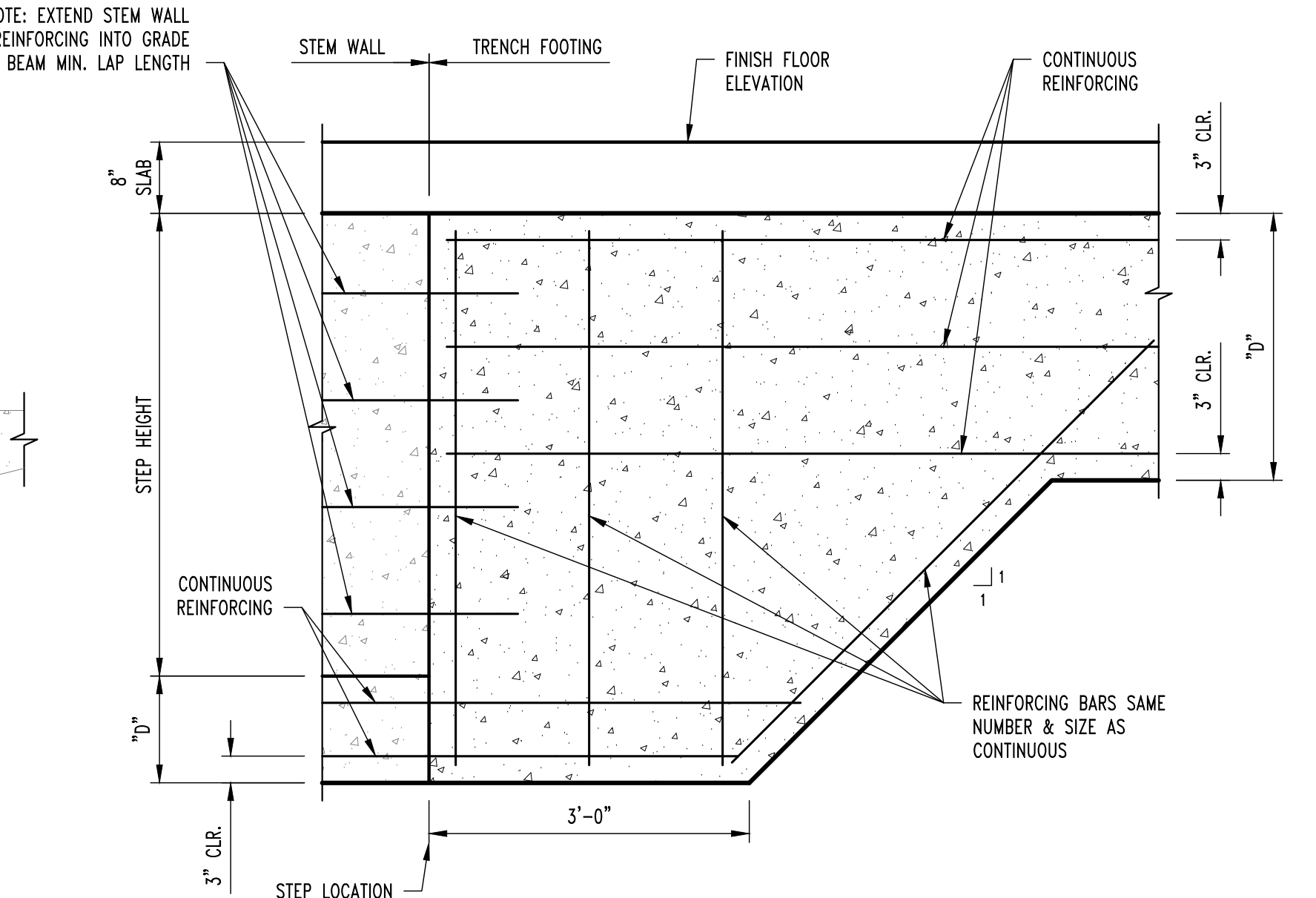
COLUMN FOOTING SECTION
SCALE: 3/4" = 1'-0"



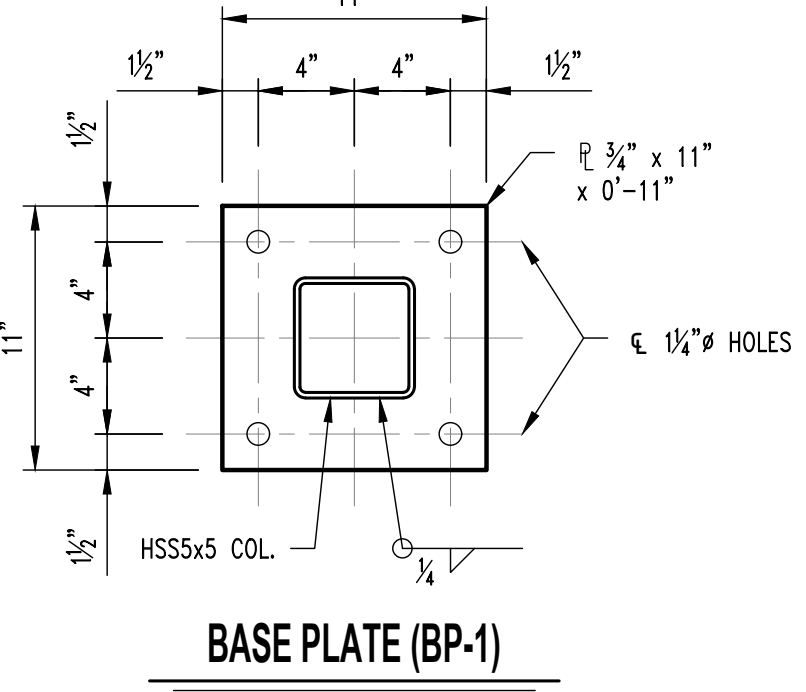
COLUMN FOOTING SECTION
SCALE: 3/4" = 1'-0"



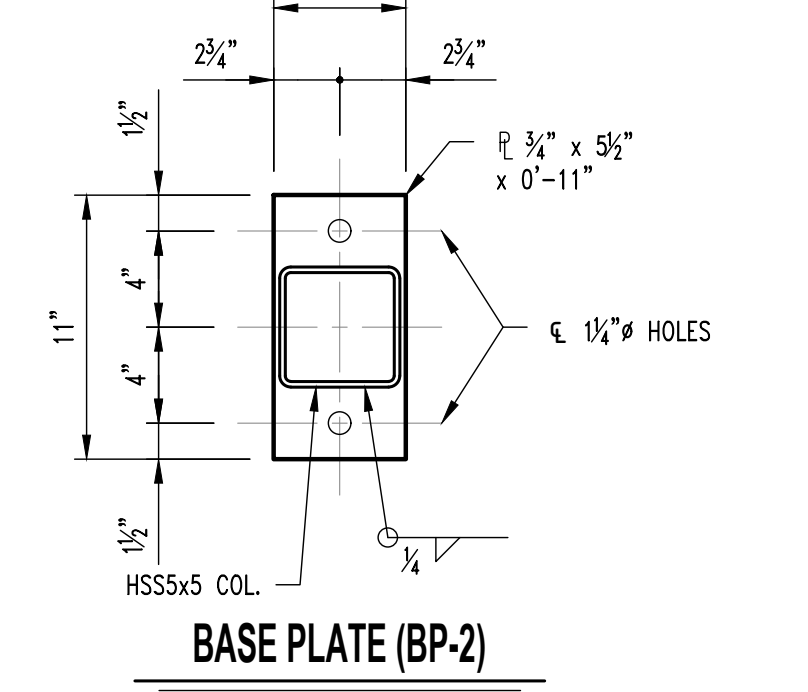
COLUMN FOOTING SECTION
SCALE: 3/4" = 1'-0"



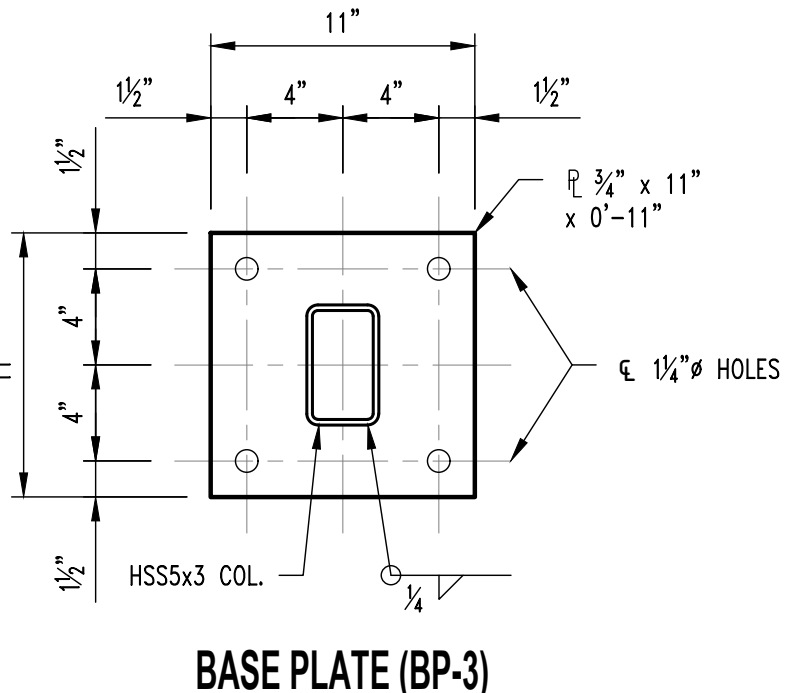
FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"



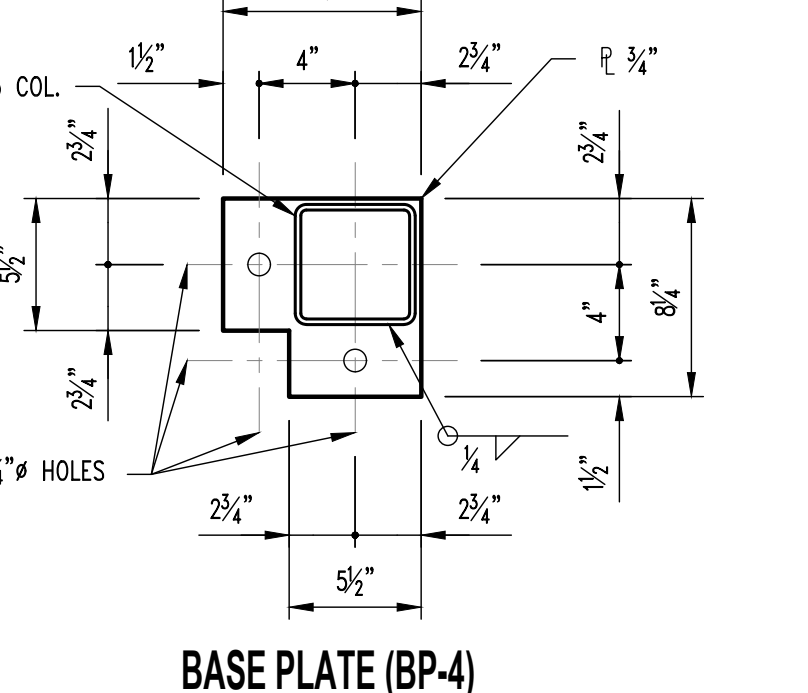
BASE PLATE (BP-1)



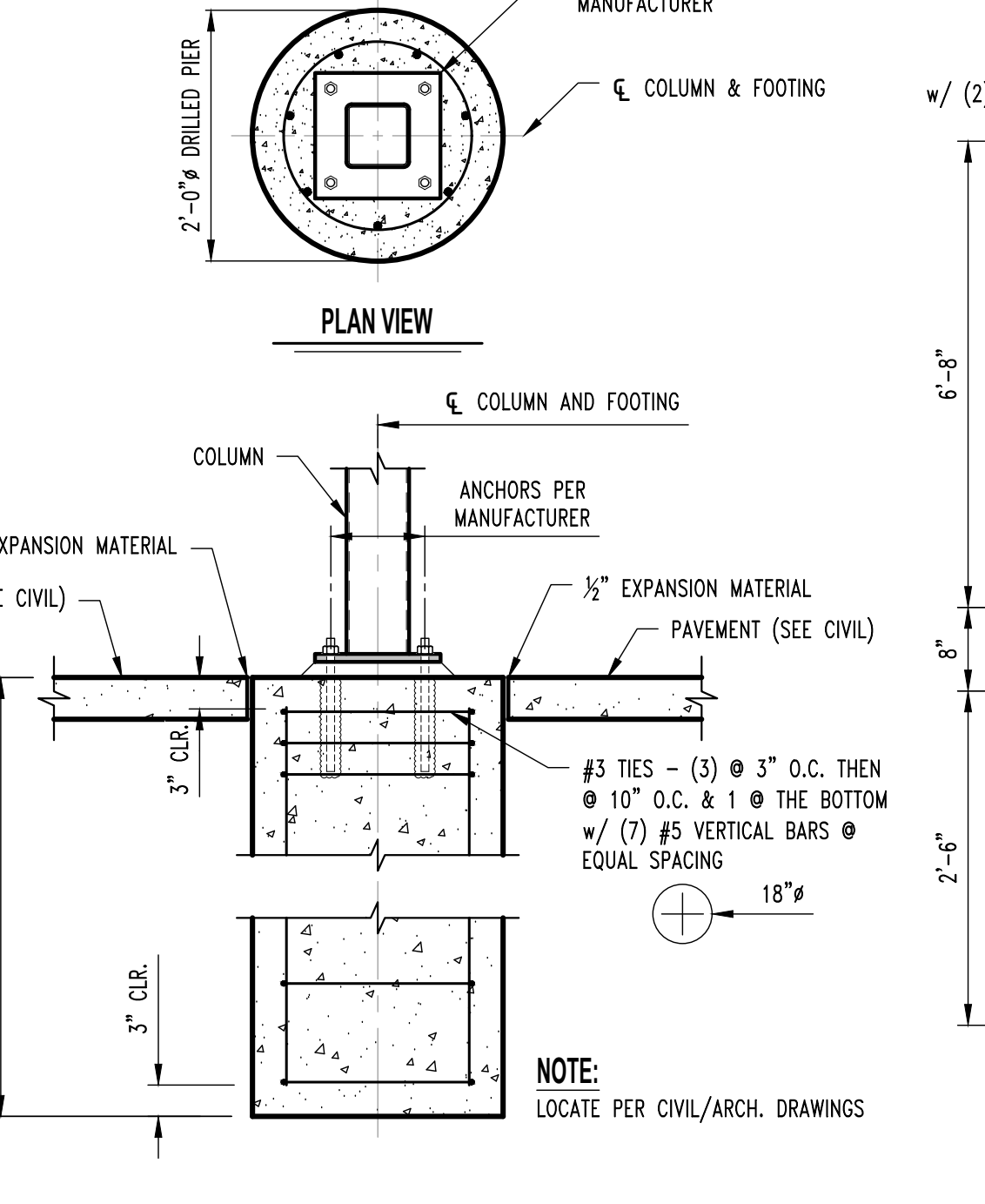
BASE PLATE (BP-2)



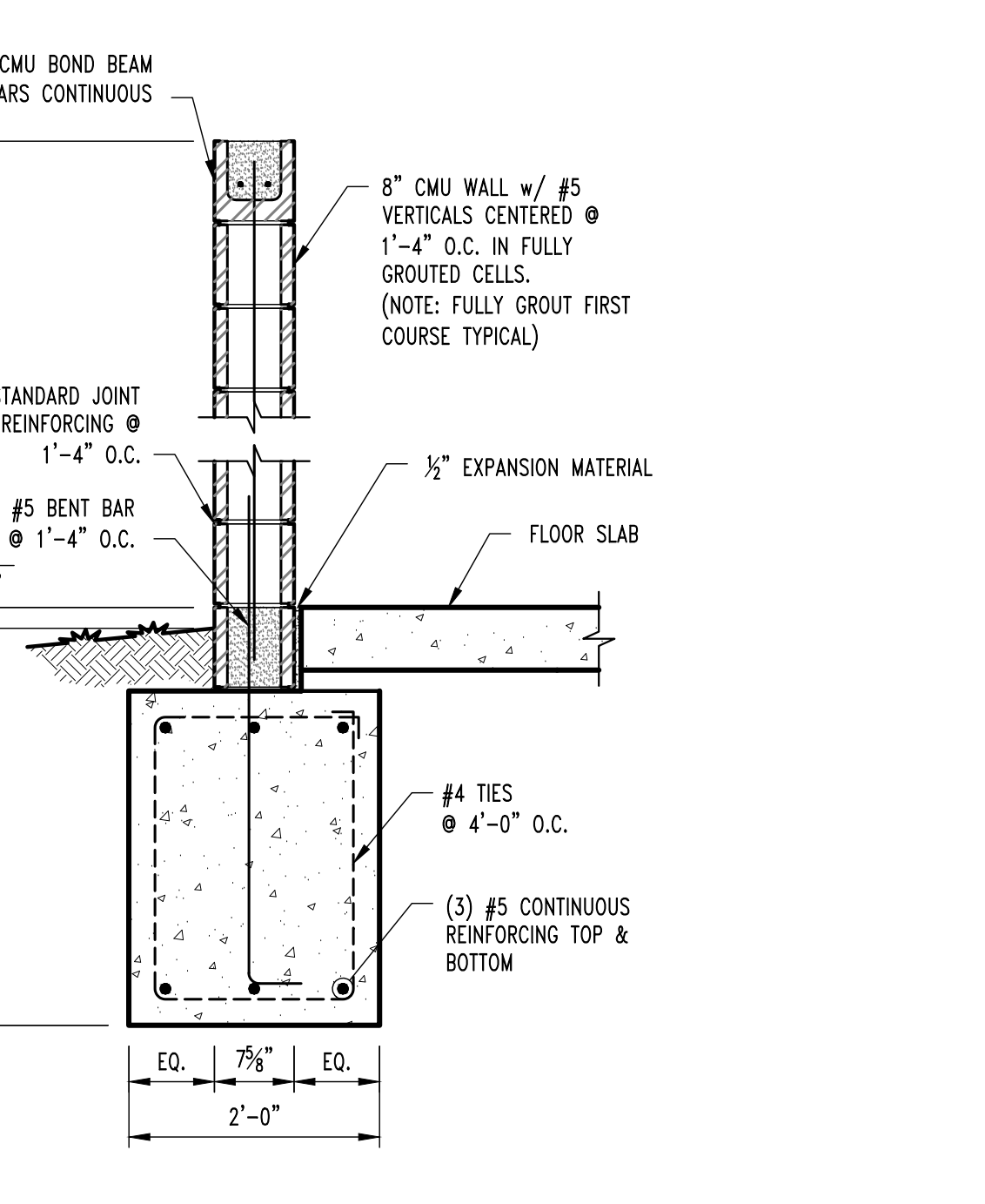
BASE PLATE (BP-3)



BASE PLATE (BP-4)



TYP. CLEARANCE BAR FOOTING DETAIL



TYP. DUMPSTER WALL SECTION

REVISIONS:

No.	Date
1	11/24/25
2	11/24/25

THIS SHEET HAS BEEN SEaled AND DATED ELECTRONICALLY

REGISTERED PROFESSIONAL ENGINEER
GREGORY L. LINNEMAN, P.E.
NO. 000000193
11/24/25

STRUCTURAL ENGINEER
CROCKETT
ENGINEERING CONSULTANTS
10200 W. MISSOURI AVE.
SUITE 100
FALLON, MO 64601
(314) 467-0295
www.crockettengineering.com
Missouri Professional Engineer License #000000193

CLIENT:
LCS LLC
10200 SPRINGS INDUSTRIAL DR
FALLON, MO

DRAWING INCLUDES:
FOUNDATION DETAILS

DESIGNED: GLL
DRAWN: SEH
PROJECT NO.: 250501
SHEET: S210

Vibe City Dispensary
Wentzville, St. Charles County, Missouri

NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
EDGE OF SLAB OR TRUSS/RAFTER, OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

ROOF FRAMING NOTES

- 1 VAULT DOOR JAMB COLUMN. REFER TO S30/S310 FOR ADDITIONAL INFORMATION. REFER TO ARCH. DRAWINGS FOR LOCATION.
- 2 GIRDER TRUSS
- 3 RTU; COORDINATE WITH MEP DRAWINGS FOR EXACT SIZE & LOCATION.
- 4 EXHAUST FAN; COORDINATE WITH MEP DRAWINGS FOR EXACT SIZE & LOCATION.
- 5 CONDENSING UNIT; COORDINATE WITH MEP DRAWINGS FOR EXACT SIZE & LOCATION.
- 6 GENERATOR; COORDINATE WITH MEP DRAWINGS FOR EXACT SIZE & LOCATION.

REVISIONS:

No.	Date
1	11/17/2024
2	11/24/2024

THIS SHEET HAS BEEN SKETCHED, SEALED AND DATED ELECTRONICALLY.
GREGORY L. LINNEMAN
PROFESSIONAL ENGINEER
NO. 000000103
11/24/25
GREGORY L. LINNEMAN, P.E.
NO. LICENSE: 200801013

GROCKETT
ENGINEERING CONSULTANTS
1000 W. MAIN ST. SUITE 100
FALLON, MO 64601
TEL: 660-447-0295
WWW.GROCKETTENGINEERING.COM

LCS LLC
1027 COOL SPRINGS INDUSTRIAL DR
FALLON, MO

CLIENT:

Vibe City Dispensary
Wentzville, St. Charles County, Missouri

DRAWING INCLUDES:

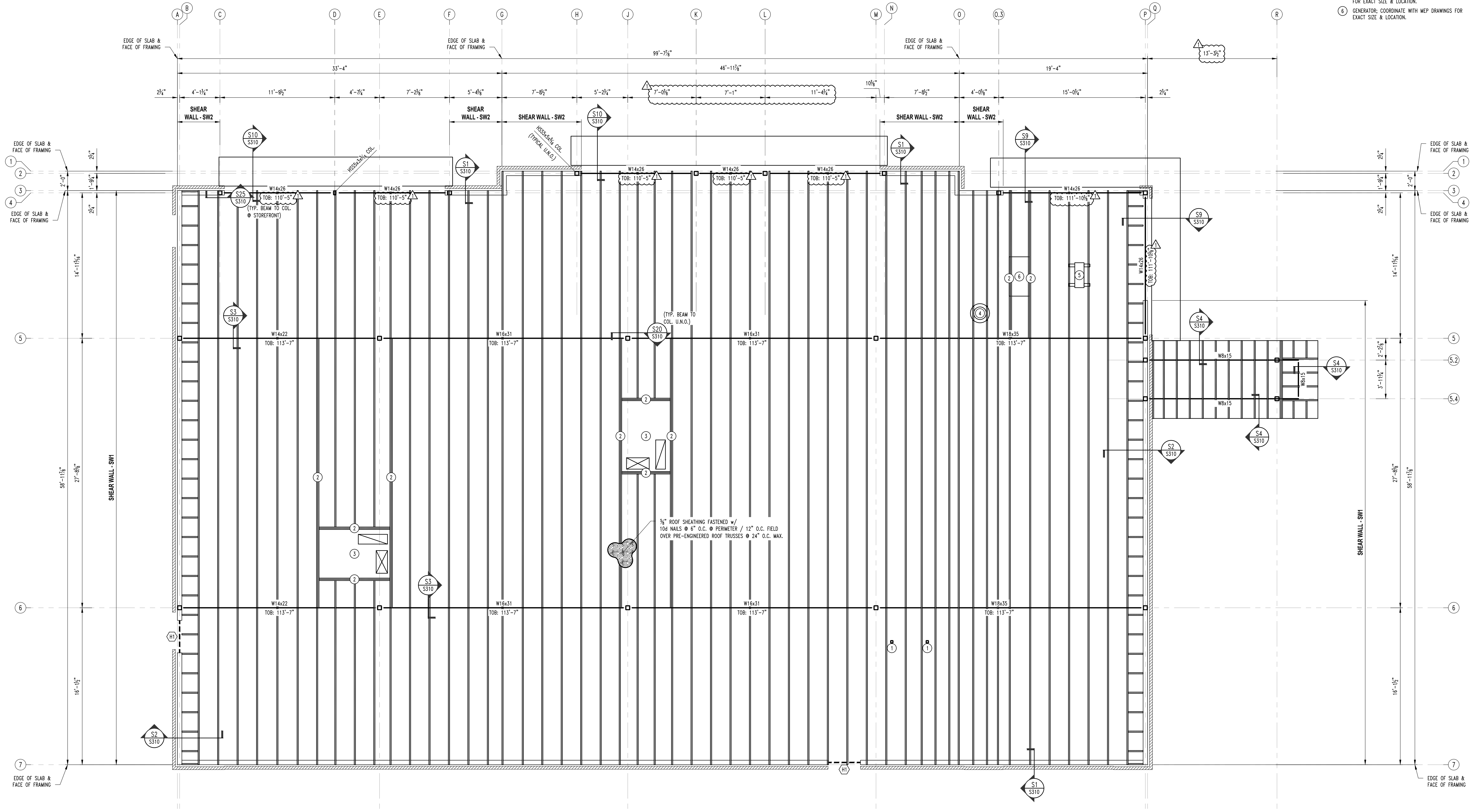
ROOF FRAMING PLAN

DESIGNED: GLL

DRAWN: SEH

PROJECT NO.: 250501

SHEET: S300



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

HEADER SCHEDULE

LABEL	HEADER	CRIPPLE/JACK	JAMBIKING
"H1"	2 Ply 2x8 SPF #2	Single Ply 2x6 SPF #2	2 Ply 2x6 SPF #2

LINTEL SCHEDULE

LENGTH OF SPAN	MEMBER SIZE (GALVANIZED)
4'-0" & LESS	L4x4x1/4 WITH 6" BEARING EACH END
6'-6" & LESS	L6x4x3/8 (LLV) WITH 6" BEARING EACH END

SHEAR WALL KEY

- SW1 SHEAR WALL**
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 3/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 2'-6" O.C.
 - REQUIRES SIMPSON UTT42 HOLDOWN FASTENED TO 2-PLY STUDS W/ (12) 0.148" X 2 1/2" NAILS & W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-XP" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL
- SW2 SHEAR WALL**
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 3/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 2'-0" O.C.
 - REQUIRES SIMPSON HT4 HOLDOWN FASTENED TO 2-PLY STUDS W/ (18) 0.162" X 2 1/2" NAILS & W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-XP" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL
- TYPICAL WALL UNLESS NOTED**
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 3/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 3'-0" O.C.
 - NO HOLDOWNS REQUIRED

REVISIONS:

No.	Date
1	11/07/2024
2	11/24/2025

THIS SHEET HAS BEEN SEaled AND DATED ELECTRONICALLY
 GREGORY L. LINNEMAN
 ENGINEER
 NUMBER: 200801013
 EXPIRES: 11/24/25
 GREGORY L. LINNEMAN, PE
 NO LICENSE - 200801013

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 Missouri Professional Engineer
 License No. 200801013

CLIENT:
LCS LLC
 1027 COO SPRINGS INDUSTRIAL DR
 O FALLON, MO

Vibe City Dispensary
 Wentzville, St. Charles County, Missouri

DRAWING INCLUDES:

ROOF FRAMING DETAILS

DESIGNED: GLL

DRAWN: SEH

PROJECT NO.: 250501

SHEET: S310

