RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
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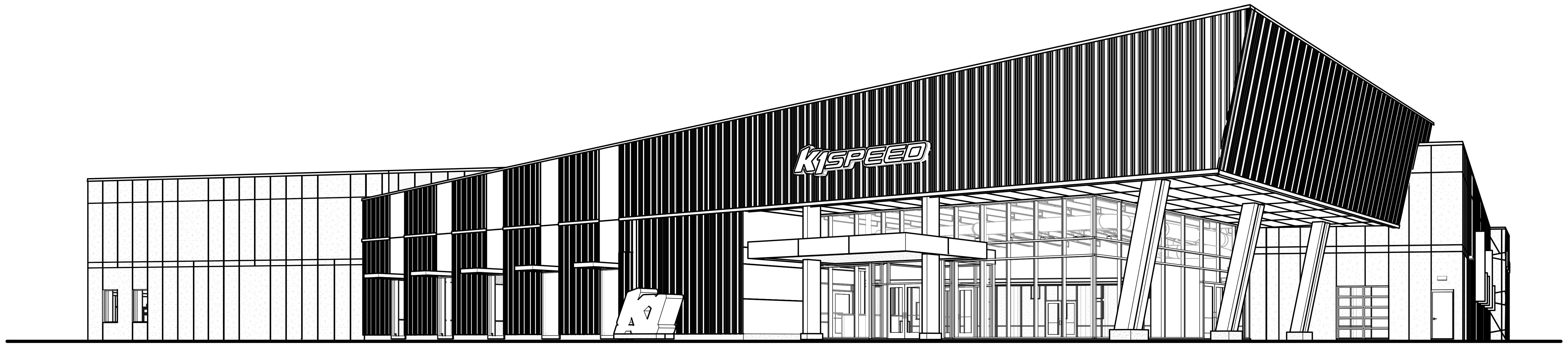
K1 SPEED LEE'S SUMMIT

2911 NE Independence Ave.
Lee's Summit, MO 64064



Entertainment Complex

CONSTRUCTION DOCUMENTS

July 19, 2022

SLAGGIE ARCHITECTS, INC.

DRAWING INDEX

CIVIL

C0.1	GENERAL INFORMATION
C1.0	DEMO PLAN
C2.0	SITE PLAN
C3.0	WEST DIMENSION PLAN
C3.1	EAST DIMENSION PLAN
C4.0	GRADING PLAN
C4.1	DETAILED GRADING (SW)
C4.2	DETAILED GRADING (SE)
C4.3	DETAILED GRADING (NE)
C4.4	DETAILED GRADING (ADA)
C5.0	PRE-CONSTRUCTION EROSION CONTROL PLAN
C5.1	MID-CONSTRUCTION EROSION CONTROL PLAN
C5.2	POST-CONSTRUCTION EROSION CONTROL PLAN
C6.0	UTILITY PLAN
C6.1	SANITARY PLAN
C7.0	EXISTING DRAINAGE MAP
C7.1	PROPOSED DRAINAGE MAP
C7.2	PIPE PLAN
C7.3	PROPOSED PIPE CALCS
C7.4	STORM LINE 100
C7.5	STORM LINE 100 (CONT.)
C7.6	STORM LINE 200
C7.7	STORM LINE 300
C7.8	ROOF DRAIN PLAN
C8.0	CONSTRUCTION DETAILS
C8.1	PAVEMENT DETAILS
C8.2	ADA DETAILS
C8.3	SANITARY DETAILS
C8.4	WATER DETAILS
C8.5	CONCRETE ENTRANCE & CONCRETE WASHOUT
C8.6	SILT FENCE
C8.7	CURB INLET PROTECTION
C8.8	AREA INLET & JUNCTION BOX PROTECTION

LANDSCAPE

L100	LANDSCAPE PLAN
L200	LAYOUT PLAN
L300	HARDSCAPE DETAILS
L400	IRRIGATION ID PLAN

STRUCTURAL

S001	GENERAL NOTES
S002	SCHEDULES
S003	BUILDING DESIGN LOADS
S100	FOUNDATION PLAN
S101	SECOND FLOOR FRAMING PLAN
S102	ROOF FRAMING PLAN
S103	ROOF SCREEN FRAMING PLAN
S200	FOUNDATION SECTIONS
S201	FOUNDATION SECTIONS
S300	FRAMING SECTIONS
S301	FRAMING SECTIONS
S302	FRAMING SECTIONS
S303	FRAMING SECTIONS

ARCHITECTURAL

A-001	GENERAL INFO, WALL TYPES, CODE REVIEW & LIFE SAFETY PLANS
A-101	FLOOR PLANS
A-102	CEILING PLANS
A-103	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-301	WALL SECTIONS
A-302	WALL SECTIONS
A-303	WALL SECTIONS
A-304	WALL SECTIONS
A-305	WALL SECTIONS
A-306	WALL SECTIONS
A-307	SECTION DETAILS
A-308	SOFFIT DETAILS
A-401	BUILDING DETAILS
A-501	ENLARGED PLANS
A-502	STAIR PLANS, SECTIONS & DETAILS
A-601	INTERIOR ELEVATIONS
A-602	MILLWORK SECTIONS
A-701	ROOM FINISH SCHEDULE & FINISH LEGEND
A-702	FINISH PLANS
A-703	FURNITURE & EQUIPMENT PLANS
A-801	DOOR SCHEDULE & DOOR DETAILS
A-802	WINDOW SCHEDULE

MEP

ME101	MECHANICAL AND ELECTRICAL - SYMBOLS AND ABBREVIATIONS
ME201	MECHANICAL AND ELECTRICAL - SITE PLAN
ME202	MECHANICAL AND ELECTRICAL - ROOF PLAN
ME301	MECHANICAL AND ELECTRICAL - SCHEDULES AND DETAILS
ME302	MECHANICAL AND ELECTRICAL - SCHEDULES AND DETAILS
M-101	HVAC PLAN
P-100	UNDERSLAB PLUMBING PLAN
P-101	PLUMBING PLAN
P-102	ENLARGED PLUMBING KITCHEN PLAN
P-201	PLUMBING - RISER DIAGRAM
E-101	LIGHTING PLAN
E-201	POWER PLAN
E-202	ENLARGED POWER KITCHEN PLAN
E-301	ELECTRICAL - SCHEDULES AND DETAILS
E-302	ELECTRICAL - SCHEDULES AND DETAILS
E-303	ELECTRICAL - SCHEDULES AND DETAILS
E-304	ELECTRICAL - SCHEDULES AND DETAILS

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LEE'S SUMMIT LANDSCAPE REQUIREMENTS

INTERIOR PARKING LOT LANDSCAPING

CODE REQUIREMENT	PER SEC. 8.810 (A-C) LANDSCAPE ISLANDS, STRIPS OR OTHER PLANTING AREAS SHALL BE LOCATED WITHIN THE PARKING LOT AND SHALL CONSTITUTE AT LEAST FIVE PERCENT OF THE ENTIRE AREA DEVOTED TO PARKING SPACES, AISLES AND DRIVEWAYS. EVERY FOUR ROWS OF PARKING SHALL INCLUDE A LANDSCAPE ISLAND OF AT LEAST TEN FEET IN WIDTH.THE ISLAND SHALL BE PLANTED IN TREES, SHRUBS, GRASS, OR GROUND COVER, EXCEPT FOR THOSE AREAS THAT ARE MULCHED.

REQUIREMENT AREA	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
+/- 45,000 SF INTERIOR PARKING LOT AREA	45,000 X .05 = 2,250 2,250 / 180 (ISLAND AREA)= 12.5 = 13	14 TREES + SHRUBS, GRASS, OR GROUNDCOVER	14 TREES + PARKING LOT SHRUBS PROVIDED

PARKING LOT SCREENING

CODE REQUIREMENT	PER SEC. 8.820 (A-C) FOR ANY PARKING LOT DESIGNED TO ACCOMMODATE 5 CARS OR MORE- IF SUCH PARKING LOT OR LOADING AREA IS VISIBLE FROM A STREET ROW, A VISUAL SCREEN SHALL BE PROVIDED. SCREENING TO A HEIGHT OF 2.5' MUST BE PROVIDED ALONG THE EDGE OF THE PARKING LOT OR LOADING AREA CLOSEST TO AND PARALLEL TO THE STREET. SCREENING SHALL BE DECORATIVE AND 100% OPAQUE TO A HT OF 2.5' ABOVE THE ELEVATION OF THE PARKING AREA OR THE STREET (HIGHEST). PLANTED ONLY- A HEDGE CONSISTING OF AT LEAST 12 SHRUBS PER 40 LF THAT WILL SPREAD INTO A CONTINUOUS VISUAL SCREEN WITHIN 2 GROWING SEASONS. SHRUBS MUST BE AT LEAST 18" TALL AT THE TIME OF PLANTING AND BE OF A SPECIES THAT WILL NORMALLY GROW TO AT LEAST 2.5' IN HT AT MATURITY AND BE SUITABLE FOR THE PARKING LOT APPLICATION. THE STREET-SIDE SCREENING TREATMENT MAY BE LOCATED WITHIN THE LANDSCAPE STRIP REQUIRED UNDER THIS DIVISION ALONG THE FRONT YARD OF THE PROPERTY.

REQUIREMENT AREA	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
- NE INDEPENDENCE AV = 184 LF	184 / 40 = 4.6 x 12 = 55	55 SHRUBS (+ 9 SHRUBS PER STREET FRONTAGE LANDSCAPING REQD = 64 TOTAL	83 SHRUBS

STREET FRONTAGE LANDSCAPING

CODE REQUIREMENT	PER SEC. 8.790-A(1-3) 1 TREE SHALL BE PLANTED FOR EACH 30 FT OF STREET FRONTAGE, PUBLIC OR PRIVATE, WITHIN THE LANDSCAPED SETBACK ABUTTING SAID STREET FRONTAGE. SUCH TREES MAY BE CLUSTERED OR ARRANGED WITHIN THE SETBACK IF APPROVED AS PART OF THE LANDSCAPE PLAN. A MINIMUM 20-FOOT-WIDE LANDSCAPE STRIP SHALL BE PROVIDED ALONG THE FULL LENGTH OF ANY STREET FRONTAGE, EXCEPT WHERE THE BUILDING SETBACK IS LESS THAN 20 FEET.2.IN COMMERCIAL AND INDUSTRIAL DISTRICTS, ANY PARKING OR LOADING AREA VISIBLE FROM A STREET SHALL BE SEPARATED FROM THE STREET RIGHT-OF WAY WITH A LANDSCAPE STRIP AT LEAST 20 FEET WIDE. 1 SHRUB SHALL BE PROVIDED FOR EACH 20 FEET OF STREET FRONTAGE, OR PORTION THEREOF, WITHIN THE LANDSCAPED SETBACK ABUTTING SUCH FRONTAGE. SUCH SHRUBS MAY BE CLUSTERED OR ARRANGED WITHIN THE SETBACK.

REQUIREMENT AREA	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
NE INDEPENDENCE AV= 184 LF PRIVATE RD= 222 LF	184 / 30 = 6 // $\frac{184}{20}$ = 9 222 / 30 = 8 // $\frac{222}{20}$= 12	- 6 TREES + 9 SHRUBS - 8 TREES + 12 SHRUBS	- 8 TREES + 83 SHRUBS - 8 TREES + 16 SHRUBS

OPEN YARD AREAS

CODE REQUIREMENT	PER SEC. 8.790-B(1-3) THE MIN OPEN YARD AREA LANDSCAPING REQUIREMENTS SHALL BE TWO SHRUBS PER 5,000 SQUARE FEET OF TOTAL LOT AREA- EXCLUDING BUILDING FOOTPRINT AREA. ALL PORTIONS OF THE SITE NOT COVERED WITH PAVING OR BUILDINGS SHALL BE LANDSCAPED. OPEN AREAS NOT COVERED WITH OTHER MATERIALS SHALL BE COVERED WITH SOD. GROUND COVER SHALL BE UTILIZED ON ALL SLOPES IN EXCESS OF 3:1 SLOPE. IN ADDITION TO THE TREES REQUIRED BASED UPON STREET FRONTAGE, ADDITIONAL TREES SHALL BE REQUIRED AT A RATIO OF 1 TREE FOR EVERY 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS/STRUCTURES.

REQUIREMENT AREA	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
98,943 SF TOTAL LOT AREA (NOT INCLUDING BUILDING)	98,943 / 5,000 = 19.7886= 20 (2) = 40 SHRUBS	20 TREES + 40 SHRUBS	24 TREES + 775 SHRUBS

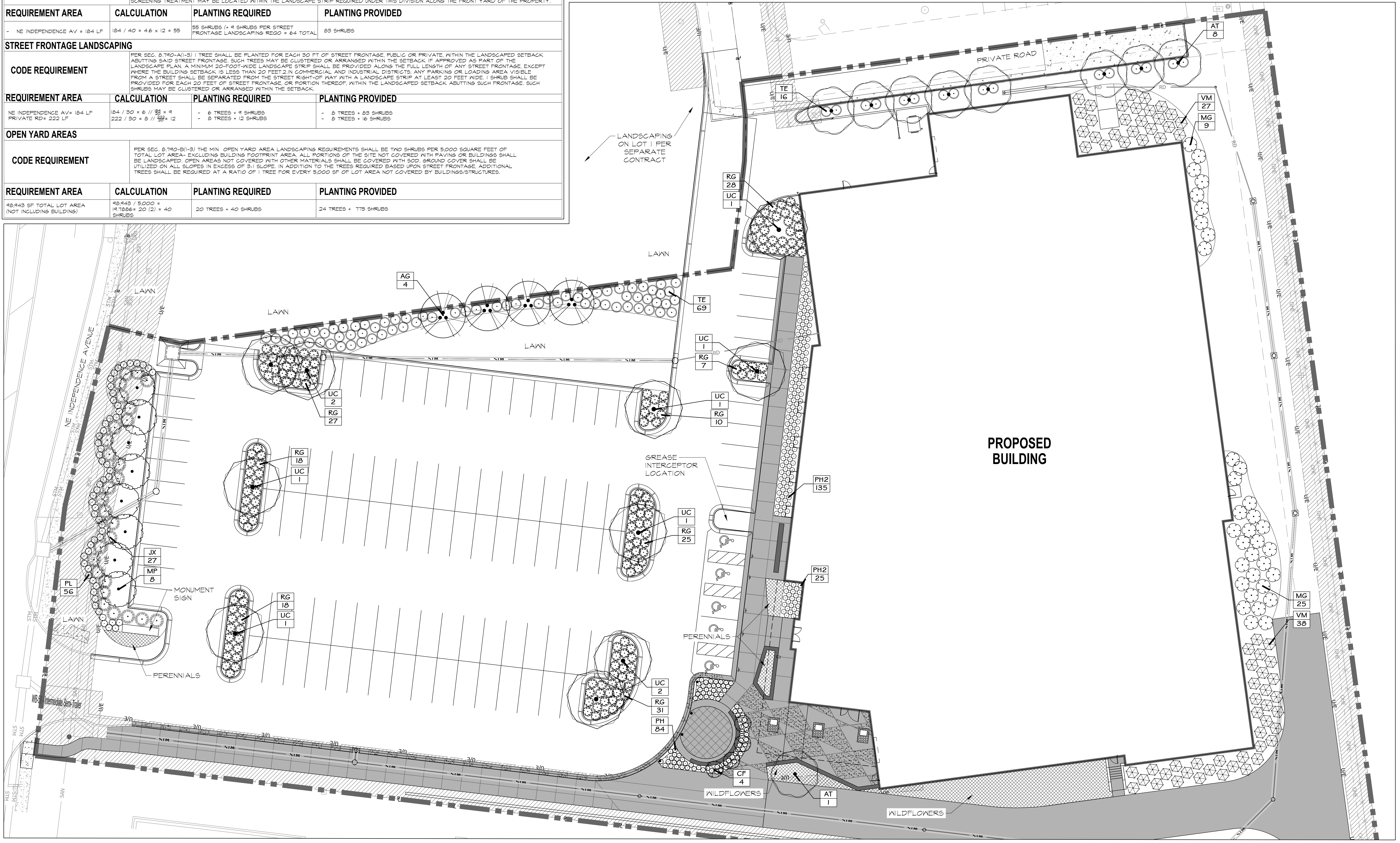
PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE
	AT	Acer truncatum	Shantung Maple	---
	AG	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	---
	CF	Carpinus betulus 'Frans Fontaine'	Frans Fontaine Hornbeam	---
	MP	Malus x 'Prairifire'	Prairifire Crabapple	---
	UC	Ulmus x 'Frontier'	Frontier Elm	---

PLANT SCHEDULE

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE
	JX	Juniperus x 'Grey Owl'	Grey Owl Juniper	---
	MG	Miscanthus sinensis 'Gracillimus'	Maiden Grass	---
	PL	Physocarpus opulifolius 'Podaras 3' TM	Lemon Candy Dwarf Ninebark	---
	RG	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	---
	TE	Taxus x media 'Everlow'	Everlow Anglo-Japanese Yew	---
	VM	Viburnum dentatum 'Blue Muffin'	Blue Muffin Viburnum	---

GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SIZE
	PH2	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	---



LANDSCAPE PLAN 1
SCALE:1"=20'

0 20 40 60 feet
SCALE: 1" = 20'

GENERAL NOTES

1. THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.

2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.

3. THE LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN) PRIOR TO INSTALLATION OF PLANT MATERIAL.

4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MULCHING, AND OTHER REQUIREMENTS OF PLANT MATERIALS WHILE THEY ARE TEMPORARILY STORED ON OR OFF SITE.

5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED LOCATION OF TREES AND INSTALLATION OF PLANT MATERIAL WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

6. ALL PLANT MATERIAL (EXCEPT SHADE TREES) IS DELINEATED AT MATURE SIZE OF PLANT MATERIAL. SHADE TREES ARE DELINEATED AT 85% OF ACTUAL MATURE SIZE.

7. ALL LANDSCAPE MATERIAL SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-1996) PER THE AMERICAN ASSOCIATION OF NURSERYMEN.

8. PER OWNER'S DIRECTION, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIAL AT THE NURSERY, PRIOR TO SELECTION OR DIGGING.

9. CONDUCT PLANTING UNDER FAVORABLE WEATHER CONDITIONS DURING EITHER THE SPRING PLANTING SEASON, MARCH 1 TO JUNE 1, OR THE FALL PLANTING SEASON, SEPTEMBER 30 UNTIL FREEZING OF THE GROUND. DURING THE FALL PLANTING SEASON, CONIFEROUS MATERIAL PLANTING SHALL BE CONDUCTED AUGUST 15 TO OCTOBER 1. DEVIATION FROM THE ABOVE PLANTING DATES WILL ONLY BE PERMITTED WITH APPROVAL IN WRITING BY THE LANDSCAPE ARCHITECT.

10. THE PLANTING SOIL MIXTURE FOR ALL TREE PLANTINGS SHALL INCLUDE SOIL EXCAVATED FROM THE HOLE. RATIO: 50% VIRGIN SOIL + 50% AMENDED TOP SOIL.

11. ROOT STIMULATOR SHALL BE APPLIED TO ALL PLANT MATERIALS WITH THE EXCEPTION OF LAWN AREAS.°°APPLY°AS°PER°THE MANUFACTURERS SPECIFICATIONS.

12. THE LANDSCAPE CONTRACTOR SHALL RESTORE FINISH GRADES IN ALL PLANTING AREAS (PER GRADING PLANS) WHICH MAY HAVE BEEN DISTURBED DURING PLANTING OPERATIONS.

13. ALL TREE SAUCERS AND PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 4" DOUBLE-GROUND HARDWOOD MULCH (COLOR DYED DARK BROWN). LANDSCAPE CONTRACTOR TO PROVIDE MULCH SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. WHERE PLANTING BEDS ARE ADJACENT TO WALKS AND CURBS THE SOIL LEVEL SHALL BE 3" LOWER TO ALLOW FOR MULCH LAYER. WHERE SOD IS INDICATED, ITS THICKNESS SHALL ALSO BE ACCOUNTED FOR SO THAT THE SOIL SURFACE IN THE SOD IS 1/2" BELOW THE HARDSCAPE SURFACE.

14. THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.

15. ALL SHRUB/PERENNIAL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE SUCH AS TREFLAN OR EQUAL. APPLY PER MANUFACTURER'S SPECIFICATIONS. THE PRE-EMERGENT°SHALL°NOT BE APPLIED UNTIL AFTER ALL PLANTING WITHIN THESE AREAS IS COMPLETE, BUT BEFORE THESE AREAS ARE MULCHED. DO NOT DISTURB AREAS AFTER APPLICATION. WATER IN AS DIRECTED.

16. MULCH, STAKES, GUY WIRE, PRE-EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL PLANTS.

17. ALL SLOPES THAT EXCEED A 3:1 GRADE SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET WITH NORTH AMERICAN GREEN S150. INSTALL PER THE MANUFACTURER'S SPECIFICATIONS.

18. LABEL EACH TREE AND SHRUB WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTH BOTANICAL AND COMMON NAME. LABEL EACH ORNAMENTAL GRASS, GROUNDCOVER, PERENNIAL AND ANNUAL WITH THE LABEL PROVIDED BY THE ORIGINAL GROWER OF THE PLANT. LABELS SHALL NOT BE REMOVED UNTIL AFTER PROVISIONAL ACCEPTANCE BY LANDSCAPE ARCHITECT.

19. STAKES AND GUY WIRES SHALL BE REMOVED AT THE END OF ONE FULL GROWING SEASON.

20. LOOSEN SOIL FOR ALL PLANTING ISLANDS AND SHRUB/PERENNIAL BEDS TO A DEPTH OF 12". ALL AREAS DENOTED AS SOD (LAWN AREAS) SHALL HAVE A 6" MINIMUM TOPSOIL LAYER. TOPSOIL SHALL BE LAID IN 3" LIFTS. IN AREAS WHERE CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADES YET EXIST, THE TOPSOIL LAYER MAY NOT BE REQUIRED BASED ON THE DECISION OF THE LANDSCAPE ARCHITECT.

21. TOPSOIL SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL PH RANGE SHALL BE 5.5 TO 7.0.

22. THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTION OF PLANT MATERIAL SPECIES WITHOUT THE WRITTEN APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT. ANY SUBSTITUTION THAT HAS NOT BEEN APPROVED SHALL BE REMOVED AND REPLACED WITH THE CORRECT PLANT AT LANDSCAPE CONTRACTOR'S EXPENSE.

23. IN THE CONDITION WHERE THE PLANT MATERIAL HAS BEEN SUPPLIED BY THE OWNER THROUGH A PLANT PROCUREMENT PROGRAM WITH A MYKE PRO 2-YEAR WARRANTY, THE LANDSCAPE CONTRACTOR'S WARRANTY OF PLANT MATERIAL SHALL BEGIN FROM THE TIME OF HANDLING PLANT MATERIAL AT TIME OF DELIVERY THROUGH INSTALLATION AND END AFTER SUBSTANTIAL COMPLETION AND FINAL PUNCH-LIST APPROVAL BY LANDSCAPE ARCHITECT.

24. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER DISPOSAL OF ANY AND ALL DEBRIS GENERATED DURING THE INSTALLATION OF THE LANDSCAPE CONSTRUCTION.

25. IRRIGATION SYSTEM SHALL UTILIZE A RAIN SENSOR. DRIP IRRIGATION SHALL BE UTILIZED AT LANDSCAPE BEDS.

26. COORDINATE WITH THE OWNER AND GENERAL CONTRACTOR FOR SLEEVE LOCATIONS AND TIMING OF SLEEVE INSTALLATION. ALL SLEEVING REQUIRED UNDER HARDSCAPE SURFACES FOR THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.

27. COORDINATE LANDSCAPE PLANTING WITH IRRIGATION CONTRACTOR. THE TREE PLANTINGS SHALL BE IN PLACE BEFORE IRRIGATION LINE ROUTING BEGINS. WATER TREES BY HAND UNTIL IRRIGATION SYSTEM IS FULLY FUNCTIONAL. SHRUBS AND PERENNIALS SHALL NOT BE INSTALLED UNTIL THE IRRIGATION SYSTEM IS FULLY FUNCTIONAL. THE IRRIGATION SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL IN ALL LAWN AREAS BEFORE SOD IS PLACED.

28. THE OWNER OF FEE TITLE TO ANY PROPERTY ON WHICH PLANT MATERIAL HAS BEEN ESTABLISHED IN ACCORDANCE WITH AN APPROVED LANDSCAPE/PLANTING PLAN, SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR AND REPLACEMENT OF THE APPROVED PLANT MATERIAL, AS REQUIRED BY THE ORDINANCE.

DECIDUOUS TREE PLANTING NOTES:
1) DO NOT HEAVILY PRUNE THE TREE AT PRUNING, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS & UNBROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED IF REQUIRED. DO NOT REMOVE THE TERMINAL BUDS OF THE BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

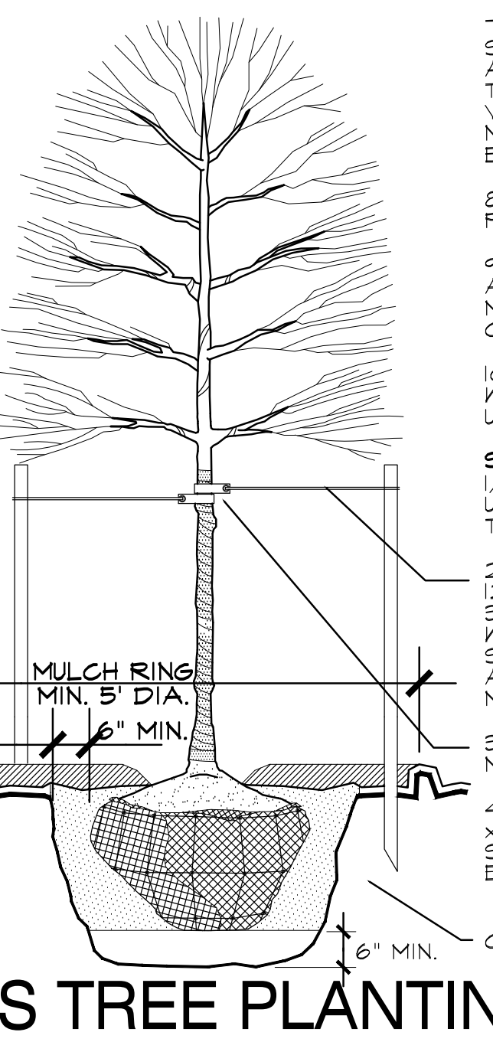
2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS.

4) PLANTING DEPTH OF ROOTBALL SHALL BE EQUAL TO ITS ORIGINAL PLANTING DEPTH AT NURSERY. PLACE ROOTBALL ON UNEXCAVATED OR TAMPED SOIL, TYP. SCARIFY HOLE & BACKFILL WITH SOIL EXCAVATED FROM HOLE & SPECIFIED AMENDMENTS.

5) SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE.

6) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF THE ROOTBALL.



7) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL w/ SOIL.

8) SOAK BACKFILL AFTER PLANTING.

9) APPLY 4"TH. MULCH LAYER AROUND TREE, DO NOT PLACE MULCH IN DIRECT CONTACT w/ CROWN OF TREE TRUNK.

10) WHEN NECESSARY APPLY TREE WRAP TO TRUNK FROM BOTTOM UPWARD, SECURE w/ TAPE.

STAKING REQUIREMENTS:
1) STAKING SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

2) GUY WIRES SHALL BE GALV. 12-GAUGE DOUBLE STRAND WIRE 3'-6" ABOVE GRADE; TIGHTEN GUY WIRE ONLY ENOUGH TO KEEP FROM SLIPPING, DO NOT OVERTIGHTEN, ALLOW FOR SOME TRUNK MOVEMENT.

3) USE 1-1/2" WIDE WEBBING w/ METAL GROMMETS

4) TREE STAKES SHALL BE 2" DIA. x 8'-0" LODGEPOLE PINE TREE STAKES, KEEP STAKES PLUMB AND EVENLY SPACED.

COMPACTED OR UNDISTURBED SOIL

1 DECIDUOUS TREE PLANTING
SCALE: N.T.S.

PERENNIAL PLANTING NOTES:
1) BREAK UP EXISTING TOPSOIL TO A DEPTH OF 24"

2) PROVIDE NEW TOPSOIL TO A DEPTH OF 18"

3) THOROUGHLY MIX PEAT IN TOP 3-4" OF SOIL

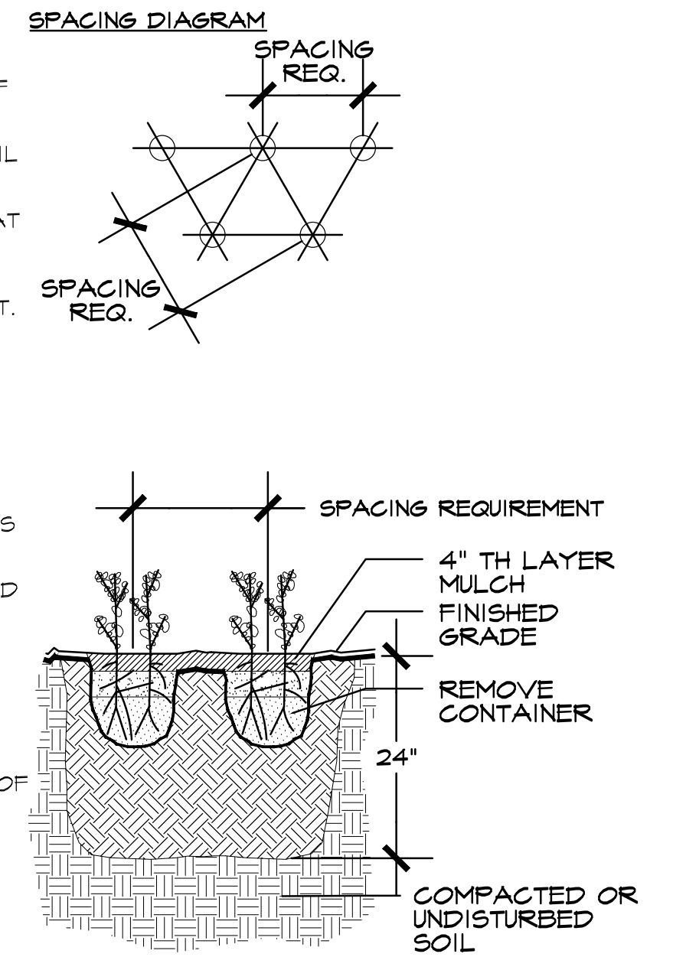
4) DO NOT ALLOW PERENNIALS TO DRY OUT. KEEP MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING.

5) PLACE PLANT IN VERTICAL PLUMB POSITION

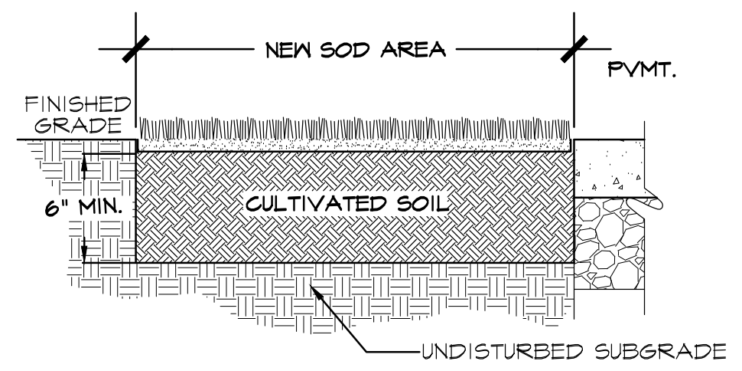
6) DIG HOLE AS DEEP AS INITIAL ROOT SYSTEM

7) BACKFILL w/ SOIL AND PACK FIRMLY BY HAND. ADD ROOT STIMULATOR PER MANUFACTURER'S RECOMMENDATIONS. WATER THOROUGHLY TO FINISH PACKING SOIL AROUND ROOTS.

8) APPLY 4" TH LAYER OF MULCH ON PERENNIAL PLANT BED, DO NOT COVER PLANTS



2 PERENNIAL PLANTING
SCALE: N.T.S.



SOD INSTALLATION NOTES:
1) FINISHED GRADES SHALL BE ACCURATE.

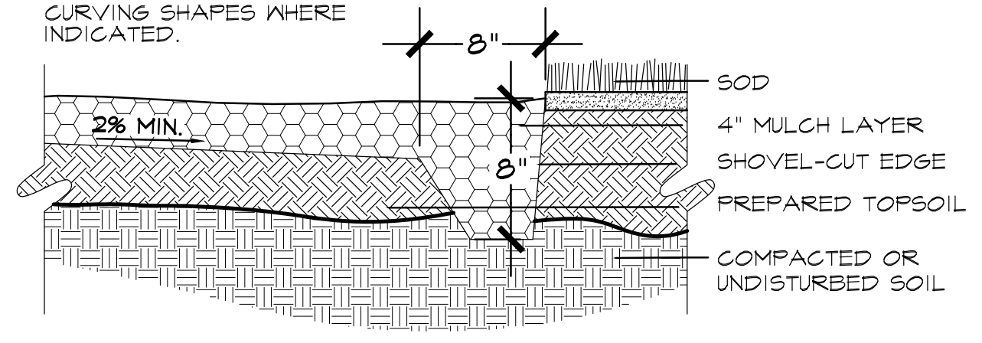
2) CULTIVATE ENTIRE AREA TO A MINIMUM 6" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED WITHIN THE DRIPLINE OF EXISTING TREES. HAND RAKE SMOOTH.

3) ADD ADDITIVES (AS PER SOIL TEST RECOMMENDATIONS) AND TILL INTO SOIL.

4) LAY AND ROLL SOD. WATER THOROUGHLY.

3 SOD INSTALLATION
SCALE: N.T.S.

NOTE:
EDGE SHALL HAND DUG IN SMOOTH CURVING SHAPES WHERE INDICATED.



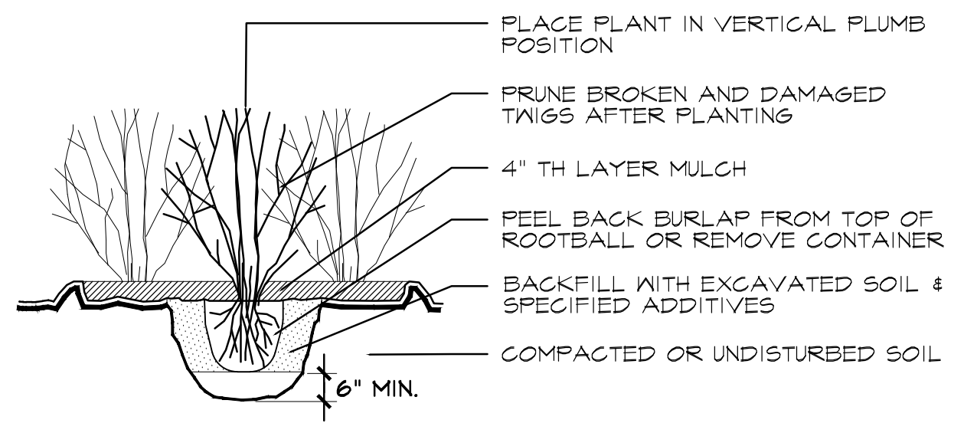
4 SHOVEL-CUT EDGING
SCALE: N.T.S.

SHRUB PLANTING NOTES:
1) SET SHRUB AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER.

2) PRUNE, THIN & SHAPE SHRUBS IN ACCORDANCE w/ STANDARD HORTICULTURAL PRACTICE

3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS.

4) WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED.



PLACE PLANT IN VERTICAL PLUMB POSITION
PRUNE BROKEN AND DAMAGED TWIGS AFTER PLANTING
4" TH LAYER MULCH
PEEL BACK BURLAP FROM TOP OF ROOTBALL OR REMOVE CONTAINER
BACKFILL WITH EXCAVATED SOIL & SPECIFIED ADDITIVES
COMPACTED OR UNDISTURBED SOIL
6" MIN.

5 SHRUB PLANTING
SCALE: N.T.S.

PLANTING REQUIREMENTS

PLANT SIZE (PER LEE'S SUMMIT)	SIZE REQUIREMENT (AT TIME OF PLANTING)
TREES	
DECIDUOUS TREES	MINIMUM 3" CALIPER MEASURED AT 6" ABOVE THE GROUND OR TOP OF THE ROOT BALL
EVERGREEN TREES	MINIMUM HEIGHT OF 8 FT
EXISTING DECIDUOUS TREES	MINIMUM 2" CALIPER
EXISTING EVERGREEN TREES	MINIMUM HEIGHT OF 6 FT
GROUND COVER	
GROUND COVER (ALL TYPES)	TWO AND ONE-HALF-INCH PEAT POT
SHRUBS	
MEDIUM SHRUBS	18- TO 24-INCH BALLED AND BURLAPPED OR TWO-GALLON CONTAINER
LARGE SHRUBS	24- TO 30-INCH BALLED AND BURLAPPED OR 5-GALLON CONTAINER

SAL
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KURT L. KRAISINGER
NUMBER LA-2003018227
7-19-22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit , MO 64064

#	Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

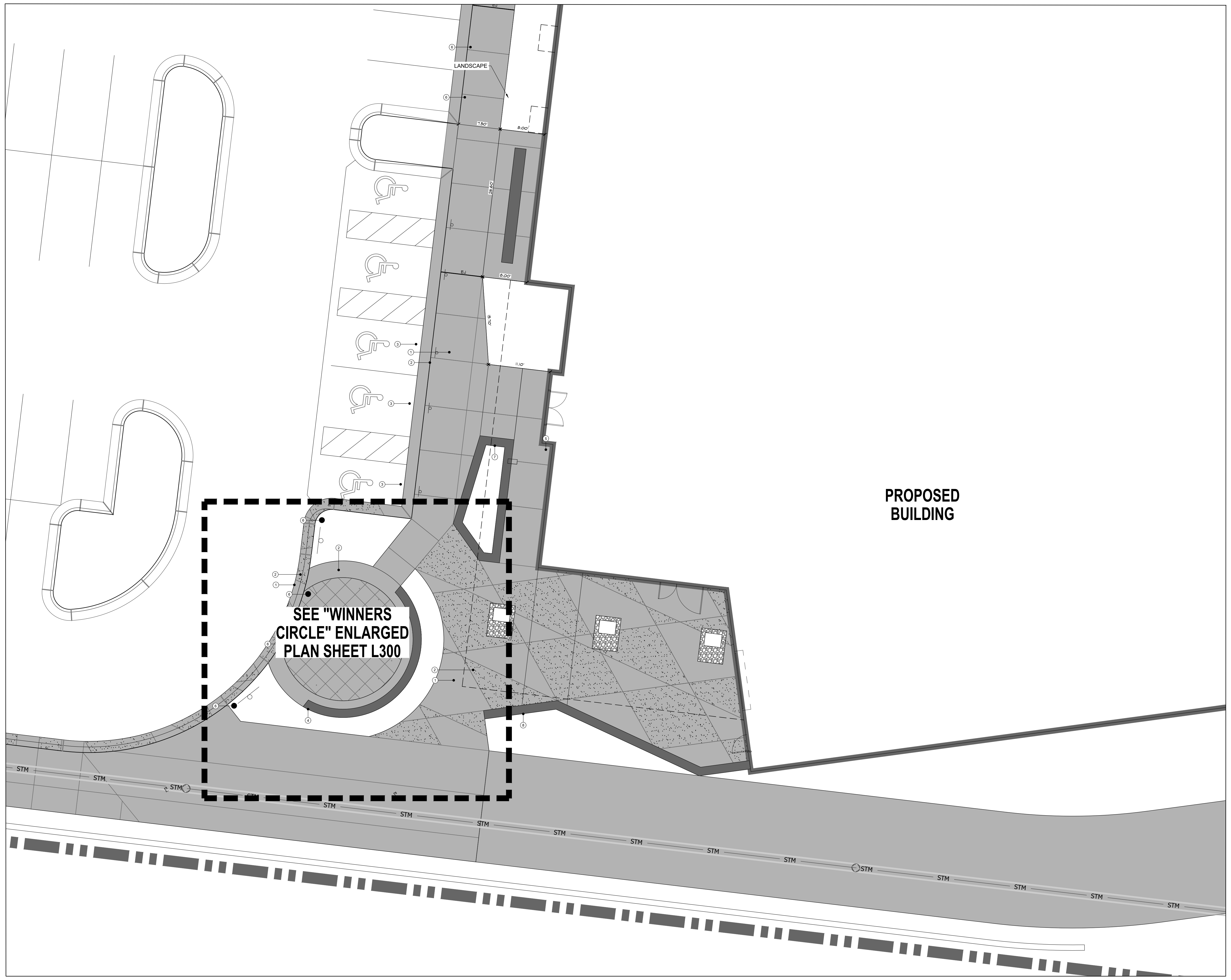
July 19, 2022

LANDSCAPE PLAN

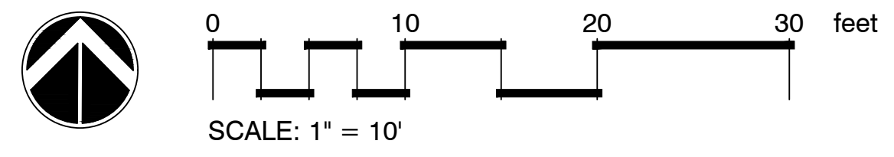
L100

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022



LAYOUT PLAN 1
SCALE:1"=10'



LEGEND

▨ CONCRETE PAVING: SANDBLASTED

■ CONCRETE PAVING: BROOM FINISHED

DETAILS LEGEND

KEY	DETAIL	DESCRIPTION	SHEET
①	PAVEMENT #1	BROOM FINISHED CONCRETE	RE: CIVIL
②	PAVEMENT #2	SAND BLASTED CONCRETE	RE: CIVIL
③	WHEEL STOPS	ADA WHEEL STOPS RE: CIVIL	RE: CIVIL
④	SEAT WALL	POURED CONCRETE SEAT WALL- ARCHITECTURAL SMOOTH FORM FACE FINISH	2 L300
⑤	TRASH RECEPTACLE	TRASH / RECYCLING RECEPTACLE BY SITE SCAPES	1 L300
⑥	BOLLARDS	BOLLARDS TO PROTECT DISPLAY VEHICLE	RE: CIVIL
⑦	RETAINING WALL	POURED CONCRETE RETAINING SEAT WALL PLANTER- ARCHITECTURAL SMOOTH FORM FACE FINISH	3 L300
⑧	RETAINING / SEAT WALL	POURED CONCRETE RETAINING SEAT WALL- ARCHITECTURAL SMOOTH FORM FACE FINISH	3 L300

GENERAL HARDSCAPE NOTES

1. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL FLAG OR MARK UTILITIES , 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.

2. THE LAYOUT OF SITE ELEMENTS WITHIN THESE PLANTS REFERENCE THE COORDINATE SYSTEM DETERMINED BY THE ARCHITECT. DISCREPANCIES SHOULD BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT AND CONTRACTOR.

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS AND/OR FEES TO CONSTRUCT THE SITE IMPROVEMENTS.

4. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT. ALL DIMENSIONS ARE PULLED FROM BACK OF CURBS AND OUTSIDE FACE OF BUILDINGS.

5. LANDSCAPE WALLS ARE DEPICTED IN PLAN VIEWS WITHOUT COPING. DIMENSIONS ARE FROM OUTSIDE FACE OF WALL UNLESS OTHERWISE NOTED.

6. ALL LIGHT FIXTURES, DRAIN INLETS, AND OTHER SITE ELEMENTS ARE DIMENSIONED TO THE CENTERLINE UNLESS OTHERWISE NOTED.

7. ALL STONE AND MASONRY VENEERED WALLS SHALL PROVIDE A MINIMUM ON ONE VENEER COURSING BELOW THE FINISHED GRADE (HOLD BRICK LEDGE DOWN). DOES NOT APPLY TO PYLONS WITH CONCRETE FINISH PEDESTAL BASES.

8. THE CONTRACTOR SHALL COORDINATE HARDSCAPE DETAILS, PLAN LAYOUT, AND FINISHED PAVEMENT ELEVATIONS WITH CIVIL STORM WATER AND UTILITY PLANS.

9. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL STONE MODULAR MASONRY UNITS, CONCRETE, MORTAR REINFORCEMENT, AND OTHER NECESSARY MATERIALS TO CONSTRUCT THE IMPROVEMENTS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL PRECAST STONE WILL BE ORDERED, INSTALLED, AND COORDINATED BY THE CONTRACTOR.

10. PRODUCT MOCK-UPS SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY MASONRY WORK. WALL SYSTEM MOCK-UPS SHALL BE 4'X4' MIN.

11. THE CONTRACTOR SHALL SUPPLY AND INSTALL FLASHINGS, WEEP HOLES, AND/OR VENTS AS REQUIRED PROTECTING FINISHES FROM MOISTURE DAMAGE AND EFFLORESCENCE.

12. ALL MATERIALS SPECIFIED AND WORKMANSHIP INVOLVED SHALL BE OF THE BEST QUALITY FOR THE PURPOSE INTENDED AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIALS AND WORKMANSHIP NOT IN ACCORDANCE WITH THESE SPECIFICATIONS OR MEETING WITH APPROVAL EITHER BEFORE OR AFTER.

13. LOCATE AND PLACE IRRIGATION AND LIGHTING SLEEVES PRIOR TO CASTING FOOTINGS FOR SEAT WALLS, PLANTER CURBS, AND GENERAL PAVEMENT.

14. IRRIGATIONS SLEEVES ARE SHOWN AT APPROXIMATE LOCATIONS AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

15. THE CONTRACTOR SHALL COORDINATE IRRIGATION OF PLANTER POTS WITH THE LANDSCAPE ARCHITECT AND IRRIGATION DESIGNER.

16. DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE BUT SHALL BE REMOVED AT FREQUENT INTERVALS. AT COMPLETION OF IN EACH AREA, THE CONTRACTOR SHALL REMOVE ALL DEBRIS, EQUIPMENT, AND EXCESS MATERIAL. AT FINAL COMPLETION OF ALL WORK, THE CONTRACTOR SHALL REMOVE ALL SUCH ITEMS FROM THE PREMISES.

17. WASTE MATERIALS RESULTING FROM THIS PROJECT SHALL BE DISPOSED OF OFF-SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ANY WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRECAST CONCRETE PIECES FOR EACH PARTICULAR APPLICATION TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CASTING.

19. BELOW GRADE CONCRETE FOUNDATION WALLS WITH VENEERED FACES SHALL BE WATERPROOFED ON THE BACKFILLED SIDE. APPLY TWO COATS OF KARANK CORPORATION 'ONE-KOTE ELASTOMERIC LIQUID MEMBRANE' TO A CLEAN, DRY, DEBRIS-FREE SURFACE AS PER THE MANUFACTURER'S PRINTED INSTRUCTIONS.

20. WHERE WELDS MUST BE COMPLETED IN THE FIELD, TOUCHUP PAINTING WILL BE REQUIRED. AFTER STEEL STRUCTURES ARE FULLY ERECTED, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT. APPLY PAINT NEATLY BY BRUSH OR SPRAY USING THE SAME MATERIAL AS USED FOR SHOP PAINTING.

21. ALL FIELD WELDS SHALL BE COMPLETED BY AN AWS CERTIFIED WELDER.

GENERAL CONCRETE NOTES

CAST IN PLACE CONCRETE

1. PORTLAND CEMENT SHALL BE TYPE II CONFORMING TO ASTM C150. TYPE I CEMENT MAY BE USED PROVIDED EITHER FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG IS ALSO INCLUDED IN THE MIX.

2. STRUCTURAL CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS. CEMENTITIOUS MATERIALS REFERS TO THE TOTAL COMBINED WEIGHT OF ALL CEMENT, FLY ASH, AND GROUND GRANULATED BLAST FURNACE SLAG CONTAINED IN THE MIX.
   A.4000 PSI (FOR CONCRETE MIXED WITH BLENDED CEMENT OR MIX OF PORTLAND CEMENT AND FLY ASH OR SLAG)
   B.MAXIMUM WATER/CEMENTITIOUS SHALL BE 0.45 MATERIALS RATIO, BY WEIGHT
   C.SLUMP RANGE
      i.4Δ NOMINAL UNLESS HIGH RANGE WATER REDUCING ADMIXTURE IS USED
      ii.3Δ MAX. BEFORE ADDITION OF HIGH RANGE WATER REDUCING ADMIXTURE
      iii.8Δ MAX. AFTER ADDITION OF HIGH RANGE WATER REDUCING ADMIXTURE
   d.AIR CONTENT: 6% +/-1.5%

3. CLASS B CONCRETE SHALL NOT BE AIR-ENTRAINED UNLESS OTHERWISE INDICATED. THE MINIMUM COMPRESSIVE STRENGTH (28-DAY) OF THESE TYPES OF CONCRETE SHALL BE 2500 PSI.

4. ALL CONCRETE FOR WALLS SHALL BE PLACED THROUGH OPENINGS IN THE FORM SPACED AT FREQUENT INTERVALS OR THROUGH TREMIES (HEAVY DUCT CANVAS, RUBBER, ETC.), EQUIPPED WITH SUITABLE HOPPER HEADS. TREMIES SHALL BE OF VARIABLE LENGTHS SO THAT THE FREE FALL SHALL NOT EXCEED FIVE (5) FEET AND A SUFFICIENT NUMBER SHALL BE PLACED IN THE FORM TO INSURE THE CONCRETE BEING KEPT LEVEL AT ALL TIMES.

REINFORCING STEEL

1. BAR REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 FOR GRADE 60 BILLET STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE FROM DOMESTIC MILLS AND SHALL HAVE THE MANUFACTURER'S MILL MARKING ROLLED INTO THE BAR WHICH SHALL INDICATE THE PRODUCER SIZE, TYPE, AND GRADE.

2. ACCESSORIES SHALL INCLUDE ALL NECESSARY CHAIRS, SLAB BOLSTERS, CONCRETE BLOCKS, TIE WIRES, DIPS, SUPPORTS, SPACERS AND OTHER DEVICES TO POSITION REINFORCING DURING CONCRETE PLACEMENT. SLAB BOLSTERS SHALL HAVE GRAY PLASTIC-COATED LEGS.

3. CONCRETE BLOCKS (DOBIES) USED TO SUPPORT AND POSITION BOTTOM REINFORCING STEEL, SHALL HAVE THE SAME OR HIGHER COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE IN WHICH IT IS LOCATED.

4. ALL REINFORCING BARS SHALL BE SHOP FABRICATED UNLESS APPROVED BY THE CONSTRUCTION MANAGER TO BE BENT IN THE FIELD. REINFORCING BATS SHALL NOT BE STRAIGHTENED OR REBENT IN A MANNER THAT WILL INJURE THE MATERIAL. HEATING OF BARS WILL NOT BE PERMITTED.

5. THE SURFACES OF ALL REINFORCING STEEL AND OTHER METALWORK TO BE IN CONTACT WITH CONCRETE SHALL BE THOROUGHLY CLEANED OF ALL DIRT, GREASE, LOOSE SCALE AND RUST, GROUT, MORTAR AND OTHER FOREIGN SUBSTANCES IMMEDIATELY BEFORE THE CONCRETE PLACED. WHERE THERE IS A DELAY IN DEPOSITING CONCRETE, REINFORCING SHALL BE REINSPECTED AND IF NECESSARY RECLEANED.

6. THE PORTIONS OF ALL ACCESSORIES IN CONTACT WITH THE FORMWORK SHALL BE MADE OF PLASTIC OR STEEL COATED WITH A 1/8 INCH MINIMUM THICKNESS OF PLASTIC WHICH EXTENDS AT LEAST ½ INCH FROM THE CONCRETE SURFACE. PLASTIC SHALL BE GRAY IN COLOR.

7. REINFORCING BARS MAY BE MOVED WITHIN ONE BAR DIAMETER AS NECESSARY TO AVOID INTERFERENCE WITH OTHER CONCRETE REINFORCING, CONDUITS, OR EMBEDDED ITEMS. IF BARS ARE MOVED MORE THAN ONE BAR DIAMETER, OR ENOUGH TO EXCEED PLACING TOLERANCES, THE RESULTING ARRANGEMENT OF BARS SHALL BE AS ACCEPTABLE TO THE CONSTRUCTION MANAGER.

8. REINFORCING BAR SPLICES SHALL ONLY BE USED AT LOCATIONS SHOWN ON THE DRAWINGS. WHEN IT IS NECESSARY TO SPLICE REINFORCING AT POINTS OTHER THAN WHERE SHOWN, THE CHARACTER OF THE SPLICE SHALL BE AS ACCEPTABLE TO THE CONSTRUCTION MANAGER.

9. THE LENGTH OF LAP FOR REINFORCING BARS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH ACI 318 FOR A CLASS B SPLICE.

CONCRETE ACCESSORIES
EXPANSION JOINT MATERIAL

1.PREFORMED EXPANSION JOINT MATERIAL SHALL BE NON-EXTRUDING, AND SHALL BE OF THE FOLLOWING TYPES:
   A.SPONGE, RUBBER, CONFORMING TO ASTM D1752, TYPE I
   B.CORK, CONFORMING TO ASTM D1752, TYPE II
   C.SELF-EXPANDING CORK, CONFORMING TO ASTM D1752, TYPE III

2. ALL EXPANSION JOINTS EXPOSED IN THE FINISH WORK, EXTERIOR AND INTERIOR, SHALL BE SEALED WITH THE SPECIFIED JOINT SEALANT. EXPANSION JOINT MATERIAL AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.

3. A BOND BREAKER SHALL BE USED BETWEEN EXPANSION JOINT MATERIAL AND SEALANT. THE JOINT SHALL BE THOROUGHLY CLEAN AND FREE FROM DIRT AND DEBRIS BEFORE THE PRIMER AND SEALANT ARE APPLIED. WHERE THE FINISHED JOINT WILL BE VISIBLE, MASKING OF THE ADJOINING SURFACES SHALL BE CARRIED OUT TO AVOID THEIR DISCOLORATION. THE SEALANT SHALL BE NEATLY TOOLED INTO PLACE AND ITS FINISHED SURFACES SHALL PRESENT A CLEAN AND EVEN APPEARANCE.

4. A SINGLE COMPONENT POLYURETHANE JOINT SEALANT MEETING ASTM C-920, TYPE S, GRADE NS, CLASS 25, USE NT, M, A, AND O CAPABLE OF WITHSTANDING 25% IN EXTENSION OR COMPRESSION SUCH AS MAGNUM NS-100, TAMMS INDUSTRIES, OR SIKAFLEX IA, SIKA CORPORATION, LYNDHURST, NY SHALL BE USED IN ALL EXPANSION AND CONTRACTION JOINTS IN CONCRETE.

5. BOND BREAKERS USED FOR CONCRETE SHALL BE EITHER A POLYETHYLENE FILM OR PLASTI TAPE AS RECOMMENDED BY THE SEALANT MANUFACTURER.

GENERAL CONCRETE NOTES

1.CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
   A.CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3Δ
   B.CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER): 1-1/2Δ
   C.CONCRETE EXPOSED TO WEATHER (#6 OR LARGER): 2Δ
   D.SLABS: 1-1/2Δ
   E.AT SURFACES CONTACTING WATER: 2Δ
   F.WALLS 12" OR MORE: 2"
   G.WALLS LESS THAN 12" (#5 OR SMALLER): 1-1/2"
   H.WALLS LESS THAN 12" (#6 OR LARGER): 2"
   I. FOR WALLS EXPOSED TO WATER ADD ½Δ TO ABOVE

2. SPLICES SHALL BE CLASS 'B' CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE.

3. ALL EMBEDDED ITEMS SHALL BE INSTALLED AND SECURED IN PLACE BEFORE CONCRETE PLACEMENT. CONSULT OTHER DISCIPLINES FOR PIPING, EMBEDDED ITEMS AND OPENINGS.

4. ALL JOINTS IN WATER BEARINGS STRUCTURES SHALL HAVE A WATERSTOP. ALL JOINTS BELOW GRADE IN WALLS OR SLABS WHICH ENCLOSE AN ACCESSIBLE AREA SHALL HAVE WATERSTOPS

5. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.

6. PROVIDE VERTICAL CONSTRUCTION JOINTS IN WALLS AND HORIZONTAL JOINTS IN SLABS NOT GREATER THAN 30'-0Δ ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS.

7. NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ADJACENT FLOOR SLABS HAVE TAKEN THEIR FINAL SET, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE CONSTRUCTION MANAGER.

JOINTS IN CONCRETE

1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, CONSTRUCTION JOINTS SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLABS.

2. MAXIMUM DISTANCE BETWEEN HORIZONTAL JOINTS IN SLABS AND VERTICAL JOINTS IN WALLS SHALL BE 30'-0Δ.

3. ALL CORNERS SHALL BE PART OF A CONTINUOUS PLACEMENT, AND SHOULD A CONSTRUCTION JOINT BE REQUIRED, THE JOINT SHALL NOT BE LOCATED CLOSER THAN FIVE FEET FROM A CORNER.

4. ALL REINFORCING STEEL AND WELDED WIRE FABRIC SHALL BE CONTINUED ACROSS CONSTRUCTION JOINTS. KEYS AND INCLINED DOWELS SHALL BE PROVIDED IN ALL JOINTS IN TH WALLS EXCEPT AS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. SIZE OF KEYS SHALL BE AS SHOWN ON THE DRAWINGS.

5. ALL JOINTS IN WATER BEARING STRUCTURES SHALL HAVE A WATERSTOP.

6. THE SURFACE OF THE CONCRETE AT ALL JOINTS SHALL BE THOROUGHLY CLEANED AND ALL LITANCE REMOVED BY WIRE BRUSHING, AIR OR LIGHT SAND BLASTING.

7. THE JOINT WHALL BE THOROUGHLY CLEAN AND FREE FROM DIRT AND DEBRIS BEFORE THE PRIMER AND THE SEALANT ARE APPLIED. WHERE THE FINISHED JOINT WILL BE VISIBLE, MASKING OF THE ADJOINING SURFACES SHALL BE CARRIED OUT TO AVOID THEIR DISCOLORATION. THE SEALANT SHALL BE NEATLY TOOLED INTO PLACE AND ITS FINISHED SURFACE SHALL PRESENT A CLEAN AND EVEN APPEARANCE.

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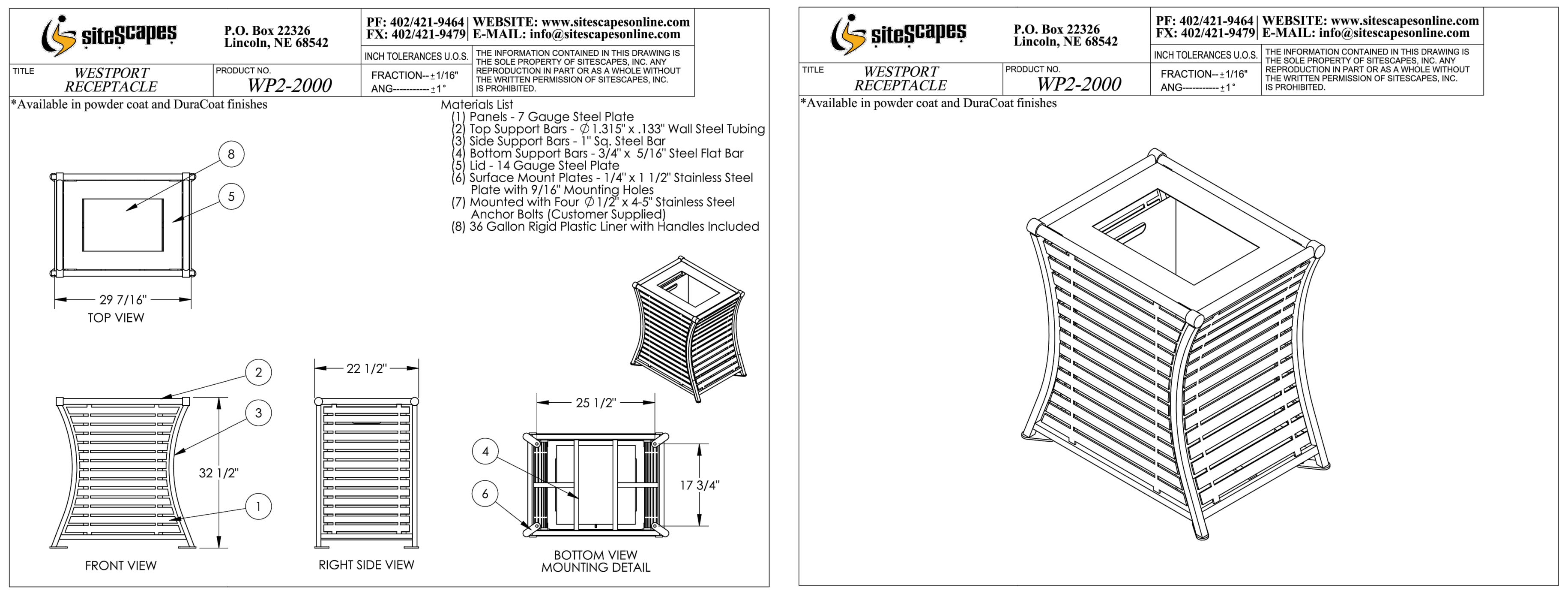

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INCH TOLERANCES U.O.S.
FRACTION--±1/16"
ANG----------±1°

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TITLE WESTPORT RECEPTACLE
PRODUCT NO. WP2-2000

*Available in powder coat and DuraCoat finishes

Materials List
(1) Panels - 7 Gauge Steel Plate
(2) Top Support Bars - Ø1.315" x .133" Wall Steel Tubing
(3) Side Support Bars - 1" Sq. Steel Bar
(4) Bottom Support Bars - 3/4" x 5/16" Steel Flat Bar
(5) Lid - 14 Gauge Steel Plate
(6) Surface Mount Plates - 1/4" x 1 1/2" Stainless Steel Plate with 9/16" Mounting Holes
(7) Mounted with Four Ø1/2" x 4-5" Stainless Steel Anchor Bolts (Customer Supplied)
(8) 36 Gallon Rigid Plastic Liner with Handles Included

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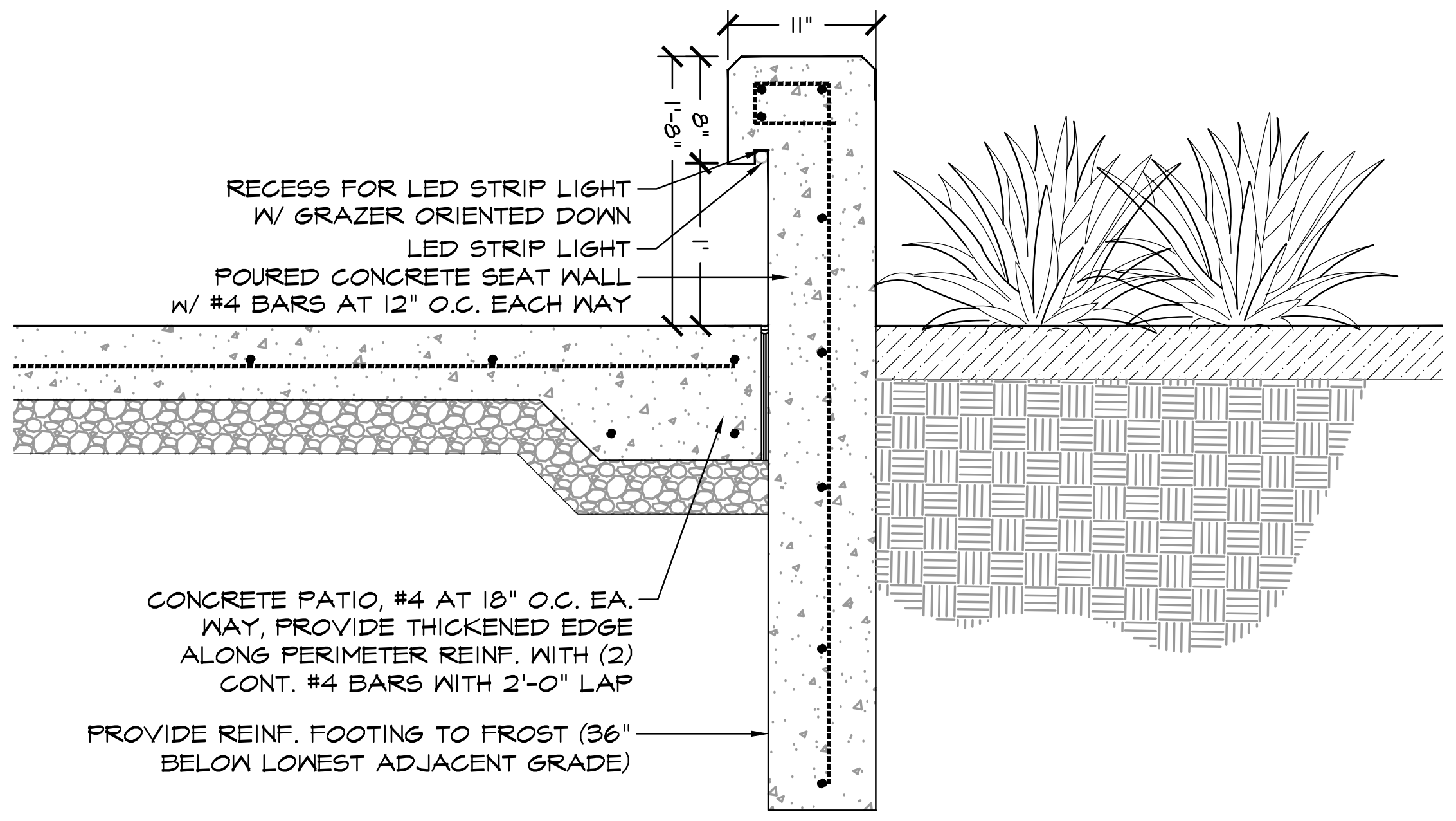
TITLE WESTPORT RECEPTACLE
PRODUCT NO. WP2-2000

*Available in powder coat and DuraCoat finishes

1 TRASH/RECYCLING RECEPTACLE

SCALE: N.T.S.

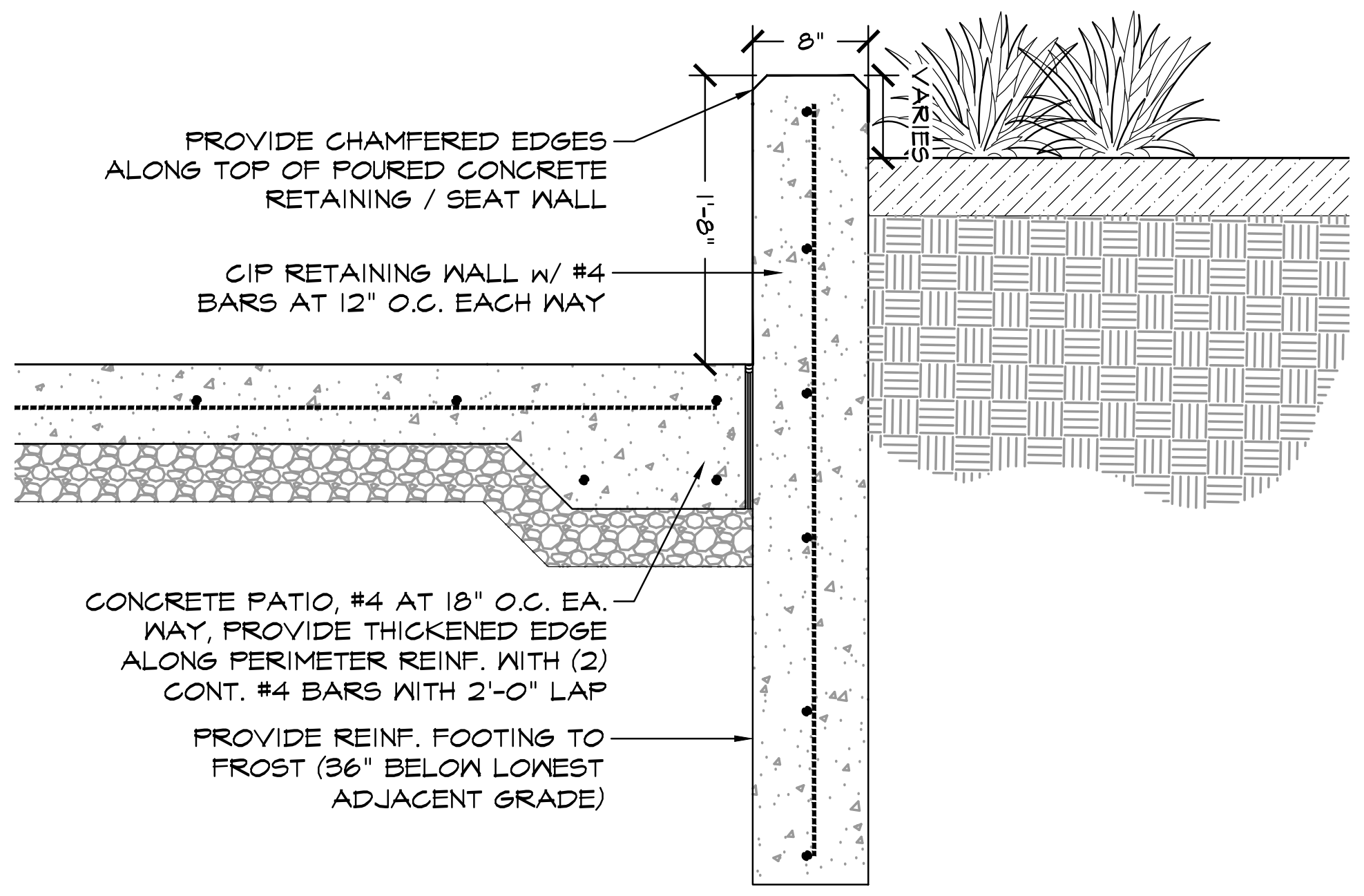
NOTES:
SITESCAPES WESTPORT TRASH AND/OR RECYCLING RECEPTACLES; FINISH: DURACOAT; COLOR: STERLING



11"
8"
8"
RECESS FOR LED STRIP LIGHT W/ GRAZER ORIENTED DOWN
LED STRIP LIGHT
POURED CONCRETE SEAT WALL w/ #4 BARS AT 12" O.C. EACH WAY
CONCRETE PATIO, #4 AT 18" O.C. EA. WAY, PROVIDE THICKENED EDGE ALONG PERIMETER REINF. WITH (2) CONT. #4 BARS WITH 2'-0" LAP
PROVIDE REINF. FOOTING TO FROST (36" BELOW LOWEST ADJACENT GRADE)

2 FREE STANDING POURED CONCRETE SEAT WALL

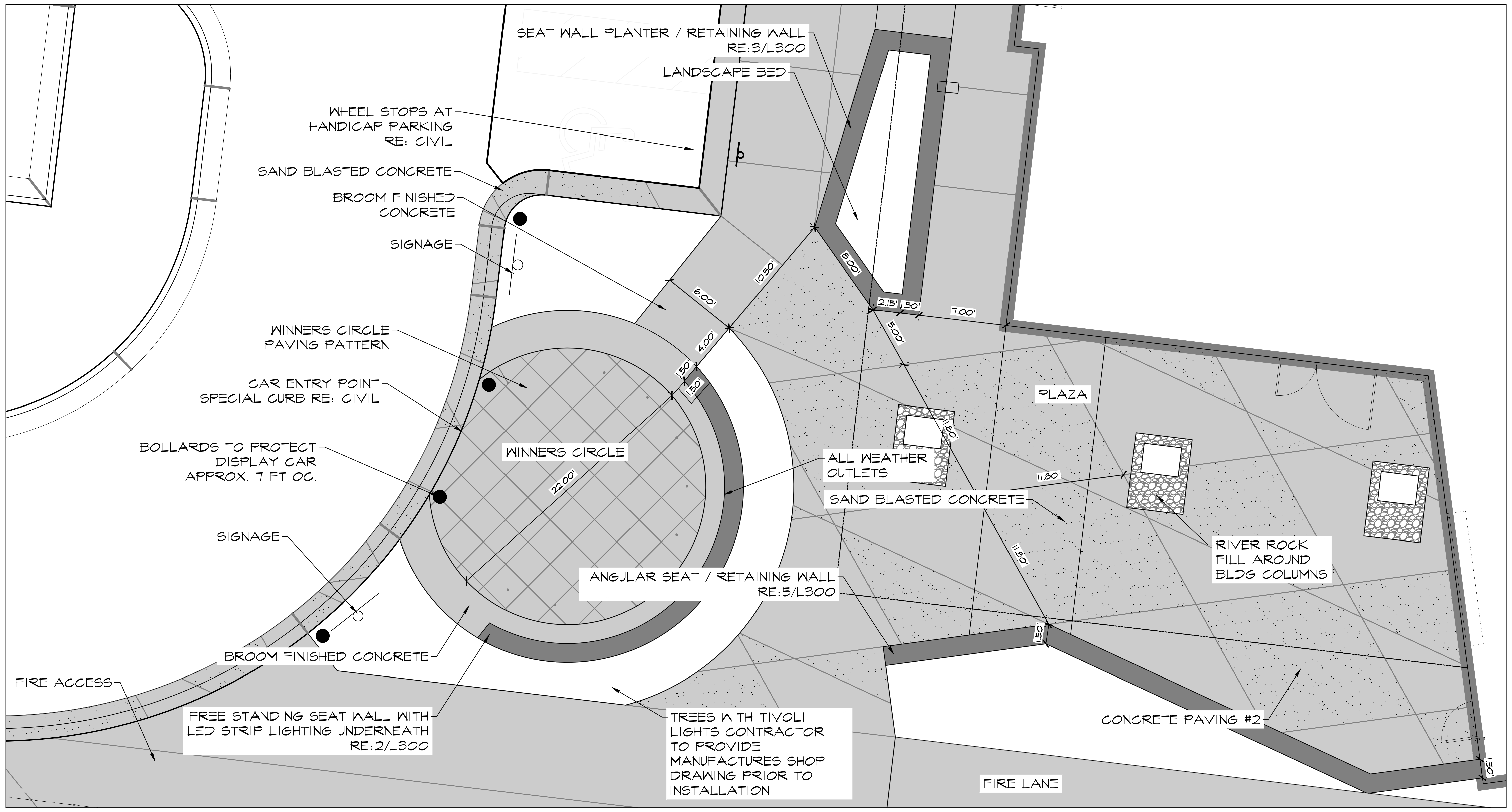
SCALE: 1" = 1'-0" *SECTION*



8"
VARIES
1'-8"
PROVIDE CHAMFERED EDGES ALONG TOP OF POURED CONCRETE RETAINING / SEAT WALL
CIP RETAINING WALL w/ #4 BARS AT 12" O.C. EACH WAY
CONCRETE PATIO, #4 AT 18" O.C. EA. WAY, PROVIDE THICKENED EDGE ALONG PERIMETER REINF. WITH (2) CONT. #4 BARS WITH 2'-0" LAP
PROVIDE REINF. FOOTING TO FROST (36" BELOW LOWEST ADJACENT GRADE)

3 POURED CONRETE PLANTER SEAT WALL

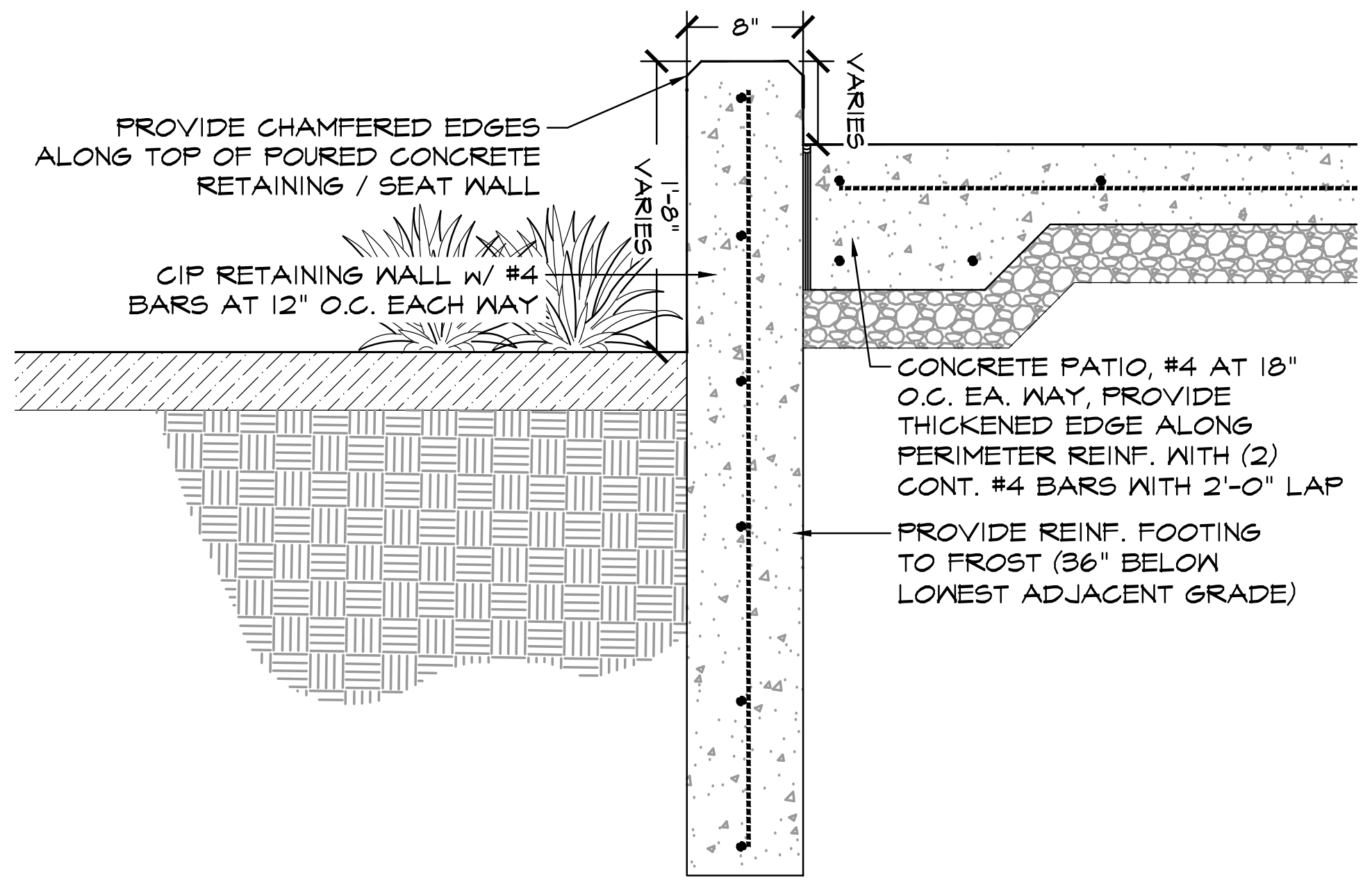
SCALE: 1" = 1'-0" *SECTION*



SEAT WALL PLANTER / RETAINING WALL RE:3/L300
LANDSCAPE BED
WHEEL STOPS AT HANDICAP PARKING RE: CIVIL
SAND BLASTED CONCRETE
BROOM FINISHED CONCRETE
SIGNAGE
WINNERS CIRCLE PAVING PATTERN
CAR ENTRY POINT SPECIAL CURB RE: CIVIL
BOLLARDS TO PROTECT DISPLAY CAR APPROX. 7 FT OC.
SIGNAGE
BROOM FINISHED CONCRETE
FIRE ACCESS
FREE STANDING SEAT WALL WITH LED STRIP LIGHTING UNDERNEATH RE:2/L300
WINNERS CIRCLE
22.00'
6.00'
10.50'
8.00'
2.15'
1.50'
7.00'
5.00'
4.00'
1.50'
1.50'
PLAZA
ALL WEATHER OUTLETS
11.80'
11.80'
SAND BLASTED CONCRETE
11.80'
RIVER ROCK FILL AROUND BLDG COLUMNS
ANGULAR SEAT / RETAINING WALL RE:5/L300
1.50'
TREES WITH TIVOLI LIGHTS CONTRACTOR TO PROVIDE MANUFACTURES SHOP DRAWING PRIOR TO INSTALLATION
CONCRETE PAVING #2
1.50'
FIRE LANE

4 WINNERS CIRCLE ENLARGED PLAN

SCALE: 1" = 5'-0" *SECTION*

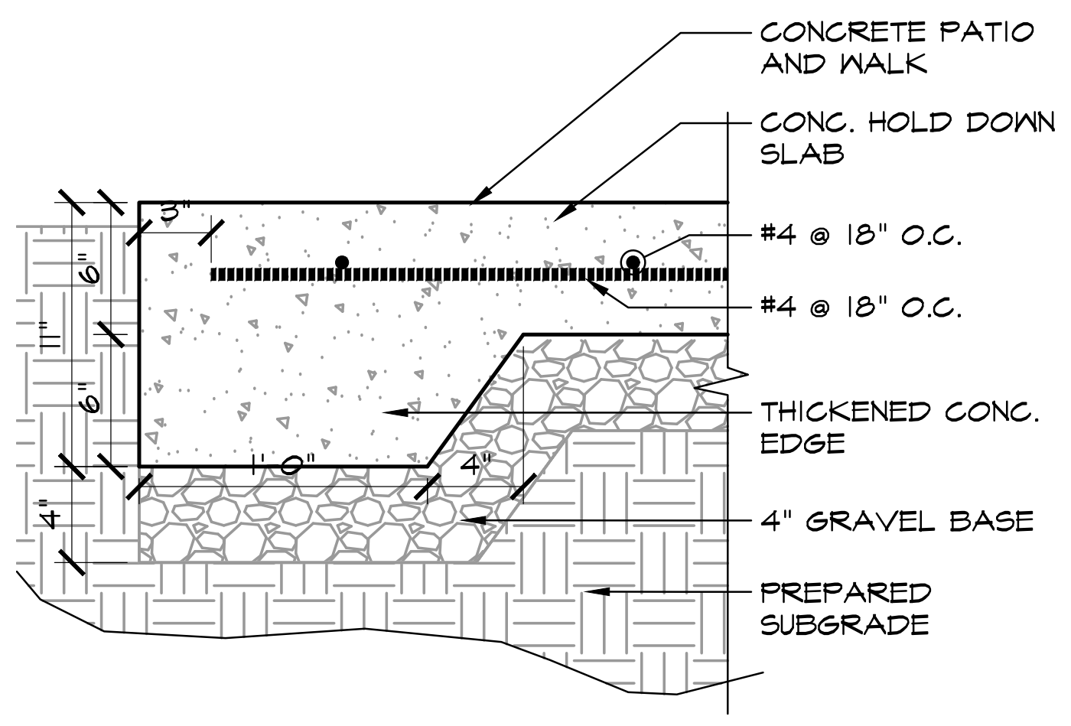


8"
VARIES
1'-8"
VARIES
PROVIDE CHAMFERED EDGES ALONG TOP OF POURED CONCRETE RETAINING / SEAT WALL
CIP RETAINING WALL w/ #4 BARS AT 12" O.C. EACH WAY
CONCRETE PATIO, #4 AT 18" O.C. EA. WAY, PROVIDE THICKENED EDGE ALONG PERIMETER REINF. WITH (2) CONT. #4 BARS WITH 2'-0" LAP
PROVIDE REINF. FOOTING TO FROST (36" BELOW LOWEST ADJACENT GRADE)

5 POURED CONRETE RETAINING / SEAT WALL

SCALE: 1" = 1'-0" *SECTION*

NOTE:
CONTINUOUS HIGH CHAIRS USED TO SET REBAR, CENTERED IN CONCRETE SLAB



6 CONCRETE THICKENED EDGE

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

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STATE OF MISSOURI
KURT L. KRAISINGER
NUMBER
LA-2003016227
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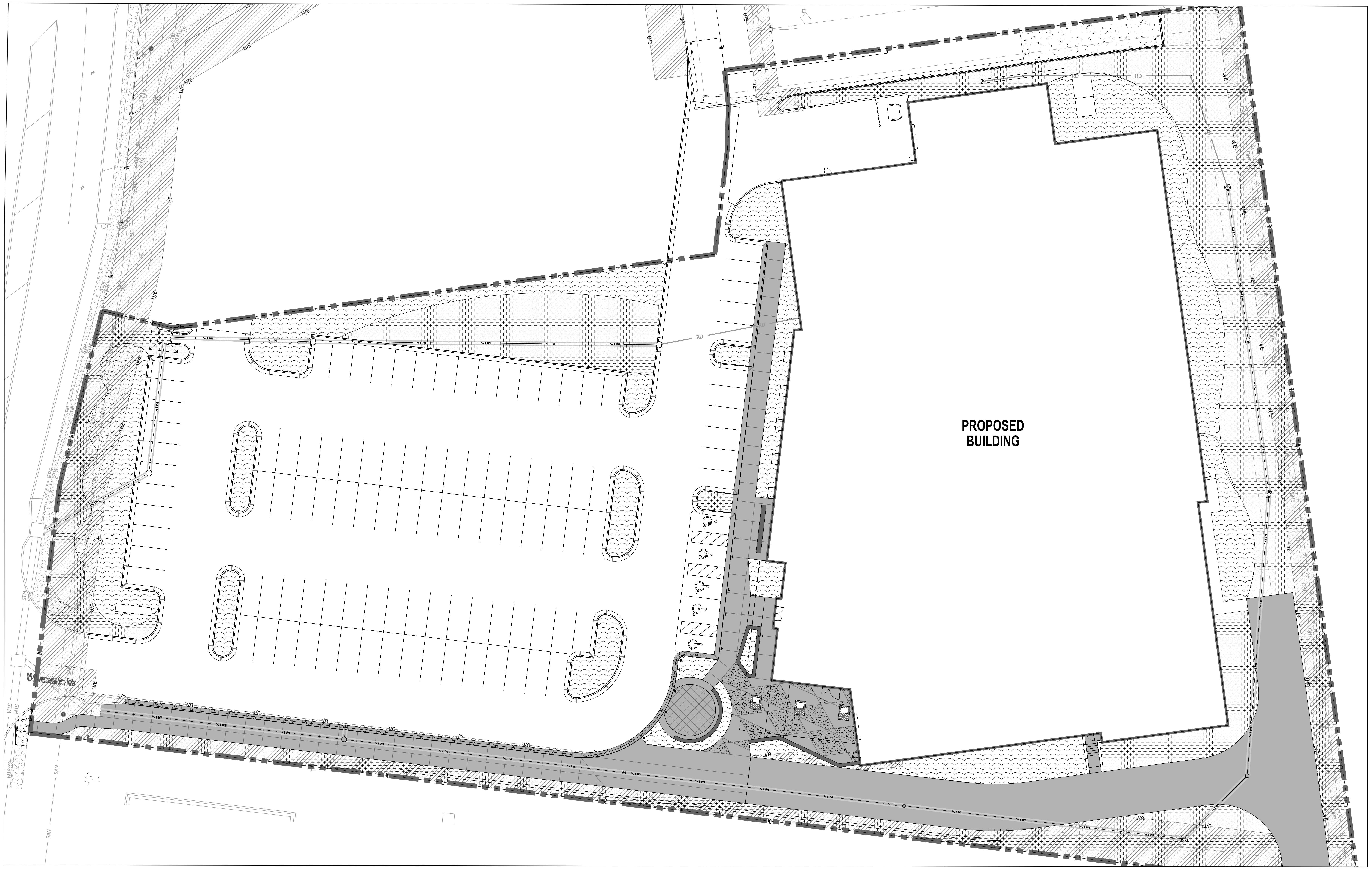
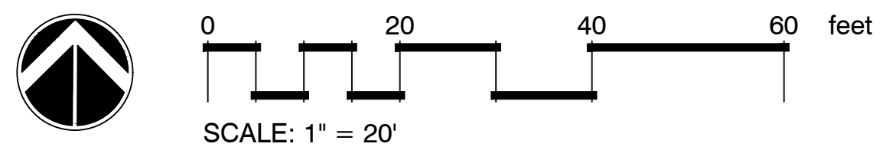


IRRIGATION ID PLAN
SCALE:1"=20'



LEGEND

▨	TURF TYPE SPRAY HEAD
≋	DRIP IRRIGATION

GENERAL NOTE

IRRIGATION CONTRACTOR SHALL DETERMINE SIZE OF IRRIGATION MAIN.

IRRIGATION CONTRACTOR SHALL SUPPLY IRRIGATION LAYOUT AND SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM.

SLAGGIE ARCHITECTS, INC.
Kansas City, Missouri • Omaha, Nebraska
888-756-1958
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KURT L. KRAISINGER
NUMBER LA-2003016227
7-19-22

K1 SPEED LEE'S SUMMIT
Entertainment Complex
2911 NE Independence Ave.
Lee's Summit , MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

IRRIGATION ID PLAN

L400

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

GENERAL NOTES - STRUCTURAL

1. General Information

A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
   1. International Building Code (IBC 2018) as amended by the city of Lee's Summit, Missouri.
   2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
   3. Specification for Structural Steel Buildings (AISC 360-16)
      Member Design Basis is Allowable Stress Design (ASD)
      Connection Design Basis is Allowable Stress Design (ASD)
   4. Structural Welding Code (AWS D1.4-11)
   5. Building Code Requirements for Structural Concrete (ACI 318-14)
   6. Building Code Requirements for Masonry Structures (TMS 402-14)
   7. North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-16/S1-1)
D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

A. Floor Live = 100 psf (An allowance of 15psf has been made for partitions as a uniformly distributed live load where the live load stated above is 80psf or less) Floor Collateral Dead = 10 psf
B. Roof Live = 20 psf; Roof Collateral Dead = 10 psf
C. Snow: Pg = 20psf, Pf =14psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7
D. Lateral Loads:
   1.) Wind: V = 109 mph, Exposure C
      Occupancy [Risk] Category II, Iw=1.0 GCpi=+/-0.18
      Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
   2.) Seismic: Ss = 0.100, S1 = 0.068
      Occupancy [Risk] Category II, Ie=1.0,
      Site Classification D; Sds = 0.106; Sd1 = 0.109
      Seismic Design Category B
      Basic Seismic Force-resisting System:
      Ordinary Reinforced Precast Shear Walls
      Equivalent Lateral Force Procedure
      R = 3.0; V = 0.035*W; Omega = 2.5; Cd=3.0
E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for interior flatwork (without floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
F. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
G. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
H. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
I. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
J. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
B. Clear coverage of concrete over reinforcing steel shall be as follows:

1.	Concrete placed against earth:	3"
2.	Formed concrete against earth:	2"
3.	Slabs:	1"
4.	Beams or Columns:	1-1/2"
5.	Other	2"

   All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - # 5 instead of 2 - #5, respectively.
G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
B. All welding shall conform to the recommendations of the AWS.
C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the reactions indicated in the chart on Sheet S300; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers shall be welded all around to the column base plate with 3/16” fillet weld.
F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1 1/2" of 1/8" fillet weld each side (minimum).
H. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 2-1/2" of 1/8" fillet weld each side (minimum).
I. All LH and DLH series joists shall bear 4" minimum on structural steel beams and be welded to the beams with 2-1/2" of 1/4" fillet weld each side (minimum).
J. All LH and DLH - series joists bearing on masonry walls shall have 3/8"x7"x12" embed plates set in bond beams with 2-1/2" of 1/4" fillet weld each side (minimum). Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 6" minimum on bearing plates and be welded to beams or bearing plates with 2-1/2" of 1/4" fillet weld each side (minimum).
K. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
L. All LH series joists shall have rigid x-bridging as per SJI Specifications.
M. Steel joists shall be designed for 20psf net uplift resulting from wind loading as measured 29ft. from a building corner, 15psf net uplift as measured 28ft. from the building edge, and 10psf otherwise.
N. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
O. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
P. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
Q. Allow 1.5 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.

6. Post Installed Anchors

A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

A. The soil investigation was prepared by CFS Enginerrs, their report number is 22-54-51 and their telephone number is 913-627.9040.
B. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or shale or limestone bedrock capable of safely sustaining 2,500 psf.
C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Concrete Masonry Units

A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2650 psi and laid up using type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls:
   1. Vertical reinforcing shall be a minimum of 1 - #4 bar in 6" and 8" walls and 2 - #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters, 24" minimum.
   2. Horizontal reinforcing:
      A. Horizontal joint reinforcing as noted above.
      B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction).
F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized.
J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

9. Light Gage Metal Structural Framing

A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

10. Precast Concrete Members

A. The contractor/supplier is responsible for the design of all the precast members and connection between them and other structural members. Submit design calculations, sealed by an engineer licensed in the state of the project location, for review by the architect/engineer of record.
B. All precast members are to be designed in accordance with ACI 318-11, 2012 IBC and other applicable codes, standards (see specs) and design criteria shown on design documents.
C. Precast concrete members shall conform to the 2012 IBC for the required fire ratings (refer to architects documents).
D. All wall panels should be designed for building wind loads, seismic loads, gravity loads, and transmit these loads to the foundation through properly designed connections.
E. Provide blockouts and openings for mechanical/electrical equipment. Refer to mechanical/electrical documents.
F. Shop drawings shall be complete and shall include a layout plan, fabrication details, estimated camber, connection and anchorage details and member identification marks. Identification marks shall appear on manufactured units to facilitate correct field placement.

11. Deferred Submittal and Shop Drawing

A. Bob D. Campbell and Company, Inc. will review the General Contractor’s (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
   1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
   2. Review and approve each submission.
   3. Stamp each submission as approved.
D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
F. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
   1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
   2. Reinforcing steel shop drawings including erection drawings and bending details.Bar list will not be reviewed for correct quantities.
   3. Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1’-0" showing all required reinforcing.
   4. Grout mix designs (for CMU).
   5. Construction and control joint plans and/or elevations.
   6. Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
   7. Deferred Submittal: Structural steel connections (including braced frames)
   8. Deferred Submittal: Structural steel joists
   9. Deferred Submittal: Railings and guardrails
   10. Deferred Submittal: Exterior curtain wall
   11. Deferred Submittal: Precast concrete shop drawings including erection drawings and connection details.
   12. Deferred Submittal: Precast concrete design calculations.

12. Statement of Structural Special Inspections

A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
   1. Shop Fabrication – structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
   2. Shop Fabrication – precast concrete per Section 1704.2.5 unless PC certified shop
   3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
   4. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QA/QC.
   5. Concrete Construction per Section 1705.3 and Table 1705.3
      a. Reinforcing Steel Placement
      b. Reinforcing Steel Welding
      c. Cast in Place Anchors
      d. Post Installed Anchors
      e. Design Mix Verification
      f. Concrete Sampling and Testing
      g. Concrete Placement
      h. Concrete Curing
      i. Erection of Precast
   6. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI530/ASCE5 and TMS602/A530.1/ASCE6 [Level B]
   7. Wood Construction- High Load Diaphragms per Section 1705.5.1
   8. Verification of Soils per Table 1705.6

13. Copyright and Disclaimer

A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
B. I, Clark A. Basinger, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

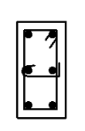
Structural Foundation Schedule

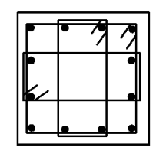
NOTE:
1) EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP AND BOTTOM WITH 4 STANDEES TO SUPPORT MATS.
2.) PROVIDE REINFORCING PER SCHEDULE EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAME AND BRACED BAY COLUMNS.
3.) CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN UNLESS NOTED OTHERWISE (U.N.O.).

Type Mark	Length	Width	Footing Thickness	Bottom Bars	Quantity (E.W. Bott)
3.0	3'-0"	3'-0"	1'-4"	Rebar : # 4	6
3.0A	3'-0"	3'-0"	2'-8"	Rebar : # 4	6
3.5A	3'-6"	3'-6"	2'-8"	Rebar : # 4	7
4.0A	4'-0"	4'-0"	2'-8"	Rebar : # 4	8
4.5A	4'-6"	4'-6"	2'-8"	Rebar : # 4	10
6	6'-0"	6'-0"	1'-4"	Rebar : # 5	12
6.5	6'-6"	6'-6"	1'-4"	Rebar : # 5	12

LEGEND:

⟷	SPAN DIRECTION OF DECK
NCD-1	3½" CONCRETE SLAB REINFORCED W/ 6x6-W2.1xW2.1 WWF ON 0.6"x26ga GALVANIZED FORM DECK (3 SPAN CONTINUOUS)
RD-1	3", 22ga GALVANIZED WIDE RIB ROOF DECK (3 SPAN CONTINUOUS) ATTACH TO STRUCTURE TO DEVELOP 325plf DIAPHRAGM SHEAR (ASD LOAD).
RD-2	1½", 22ga GALVANIZED WIDE RIB ROOF DECK (3 SPAN CONTINUOUS) ATTACH TO STRUCTURE TO DEVELOP 325plf DIAPHRAGM SHEAR (ASD LOAD).
SOG-1	4" SLAB REINFORCED W/ 6X6-W2.9xW2.9 WWF ATOP 15 MIL VAPOR BARRIER PER GENERAL NOTES ATOP 4" COMPACTED, CLEAN GRAVEL ATOP 20" ENGINEERED SUBGRADE PER GEOTECHNICAL REPORT
3.0	FOOTING MARK - SEE SCHEDULE ON SHEET S001.
1	HSS 8"x8"x5/16" . . . .COLUMN SIZE BASE PLATE MARK - SEE SCHEDULE ON SHEET S002
P1	12"x24" PILASTER REINFORCED W/ (6) #6 VERTICAL & (2) #3 TIES @12"oc (3 EXTRA SETS OF TIES IN TOP 5" OF PILASTER
P2	33 1/2"x37 1/4" PILASTER REINFORCED W/ (12) #8 VERTICAL & (4) #3 TIES @12"oc (3 EXTRA SETS OF TIES IN TOP 5" OF PILASTER





LEVEL BEAM DESIGNATION
W14x22 — STEEL BEAM SIZE
T 117'-6" — TOP OF BEAM ELEVATION

SLOPING BEAM DESIGNATION
W14x22 — STEEL BEAM SIZE
T 133'-0" T 132'-5" — TOP OF BEAM ELEVATION EACH END

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NUMBER PE-2010026832
07/19/22

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CONSTRUCTION DOCUMENTS

July 19, 2022

GENERAL NOTES

S001

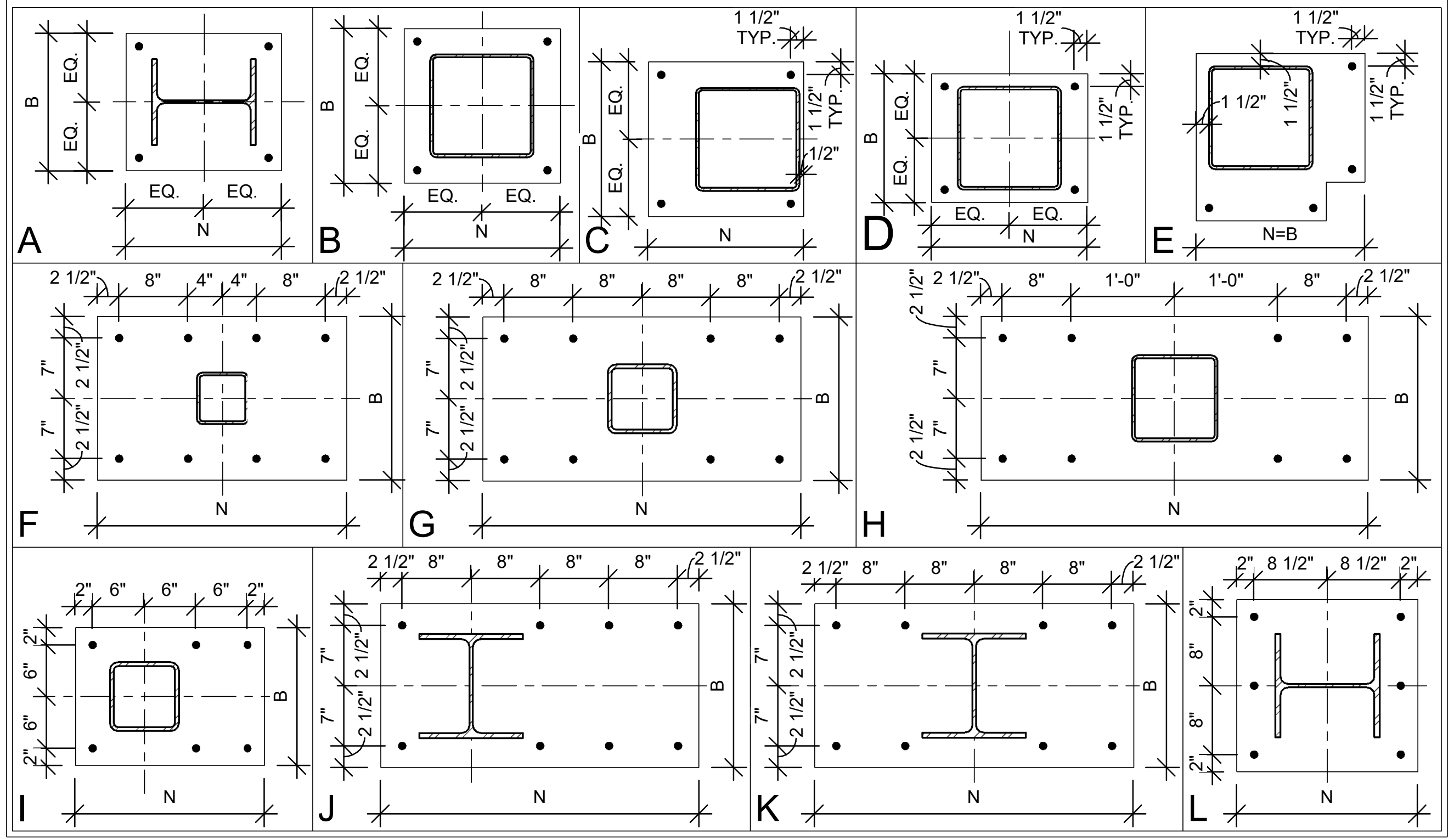
COLUMN BASE PLATE SCHEDULE

TYPE	COLUMN	BASE PLATE (txBxN)	SHAPE	ANCHOR RODS	EMBEDMENT
①	PER PLAN	3/4"x14"x14"	B	4- 3/4" DIA.	12"
②	PER PLAN	3/4"x12"x12"	B	4- 3/4" DIA.	12"
③	PER PLAN	3/4"x11"x11"	B	4- 3/4" DIA.	12"
④	PER PLAN	3/4"x10"x10"	B	4- 3/4" DIA.	12"

NOTES:

1. SEE PLAN FOR ORIENTATION OF COLUMNS.
2. PROVIDE PLATE WASHER & EMBEDDED PLATE PER SCHEDULE @ ALL ANCHOR BOLTS.
3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.

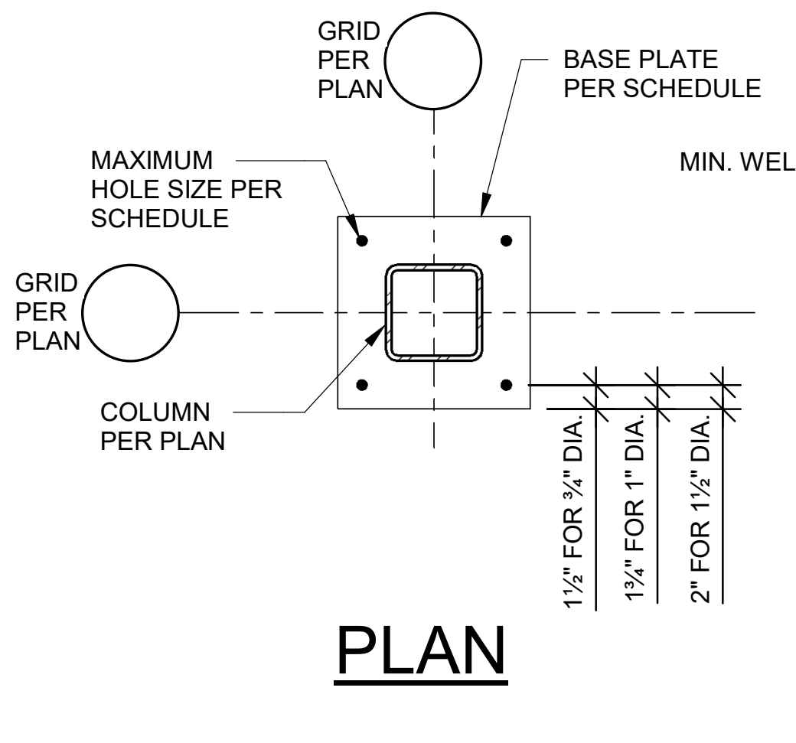
BASE PLATE SHAPE (NOT TO SCALE)



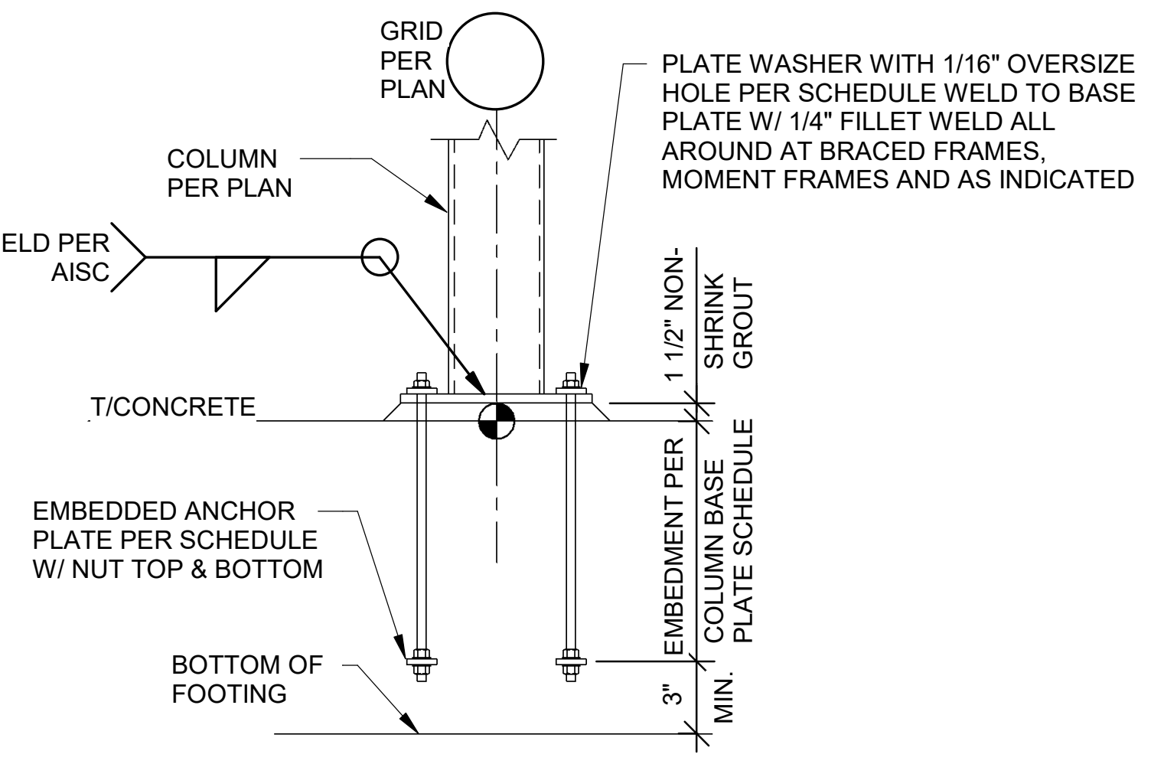
COLUMN BASE PLATE AND ANCHOR-ROD CRITERIA

ANCHOR-ROD DIAMETER.	MAX. BASE PLATE HOLE DIAMETER.	MIN. PLATE WASHER SIZE.	MIN. PLATE WASHER THICKNESS	EMBEDDED ANCHOR PLATE SIZE
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"
7/8"	1 9/16"	2 1/2"	5/16"	1/2"x2 1/2"x2 1/2"
1"	1 7/8"	3"	3/8"	5/8"x3"x3"
1 1/4"	2 1/8"	3 1/2"	1/2"	5/8"x3 1/2"x3 1/2"
1 1/2"	2 3/8"	4"	1/2"	5/8"x3 1/2"x3 1/2"
1 3/4"	2 7/8"	4 1/2"	5/8"	3/4"x3 1/2"x3 1/2"
2"	3 1/4"	5"	3/4"	3/4"x3 1/2"x3 1/2"
2 1/2"	3 3/4"	5 1/2"	7/8"	3/4"x3 1/2"x3 1/2"

NOTES:
1. HOLE SIZES PROVIDED ARE BASED ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)
2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.



PLAN


GRID PER PLAN
PLATE WASHER WITH 1/16" OVERSIZE HOLE PER SCHEDULE WELD TO BASE PLATE W/ 1/4" FILLET WELD ALL AROUND AT BRACED FRAMES, MOMENT FRAMES AND AS INDICATED
COLUMN PER PLAN
MIN. WELD PER AISC
T/CONCRETE
1 1/2" NON-SHRINK GROUT
EMBEDDED ANCHOR PLATE PER SCHEDULE W/ NUT TOP & BOTTOM
EMBEDMENT PER COLUMN BASE PLATE SCHEDULE
BOTTOM OF FOOTING
3" MIN.

ELEVATION

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SCHEDULES

S002

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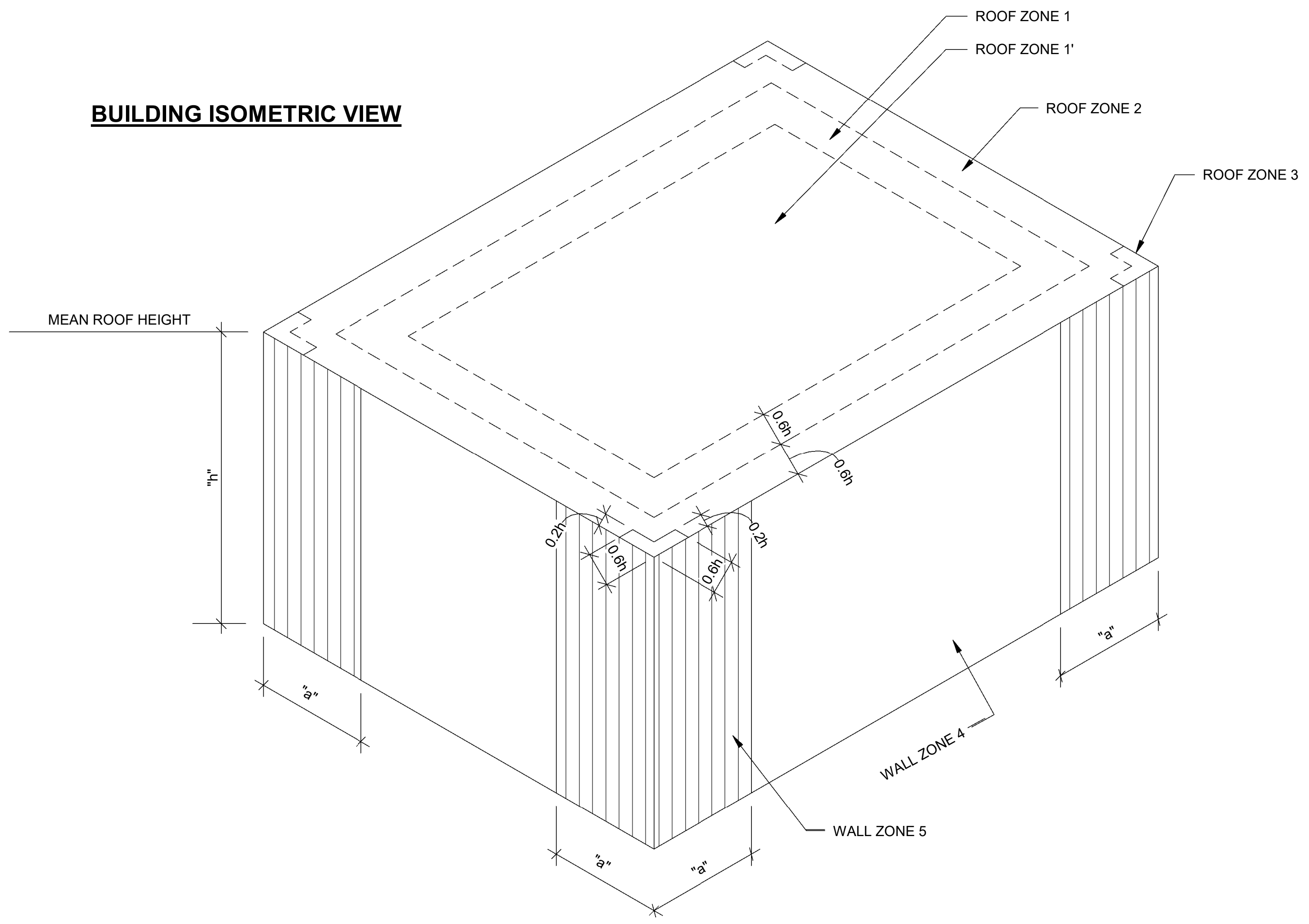
ASCE 7-16 BASIC LOAD CASE 1.0W COMPONENT AND CLADDING WIND PRESSURE DIAGRAM NOTES:

1. REFER TO GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA.
2. POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE LOADS ACT IN PERPENDICULAR DIRECTION AWAY FROM THE SURFACE.
3. WIND LOADS CALCULATED ARE BASED ON THE PROVISIONS OF ASCE 7. VALUES SHOWN ARE DETERMINED ASSUMING AS ENCLOSED BUILDING WITH AN INTERNAL PRESSURE COEFFICIENT = +/- 0.18 AND A Kd FACTOR = 0.85. LOADS SHOWN ARE FROM UNFACTORED BASIC LOAD CASE
4. LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN.
5. "a" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"h", BUT NOT LESS THAN 4 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.
6. FIGURES SHOWN ARE ILLUSTRATIVE ONLY AND ARE NOT INTENDED TO DEPICT THE ACTUAL STRUCTURE DIMENSIONS.
7. ALL DESIGNERS USINGING THIS WIND LOAD DIAGRAM MUST INDEPENDENTLY VERIFY THE DESIGN PRESSURES BASED ON THE APPLICABLE BUILDING CODE.
8. ROOF PRESSURES ARE FOR FLAT ROOF ONLY. WIND LOADS FOR THE DESIGN OF SLOPED ROOFS (WITH ANGLES GREATER THAN 10 DEGREES) SHALL BE OBTAINED USING THE PROVISIONS OF ASCE 7-16.
9. PARAPETS SHALL BE DESIGNED FOR COMPONENTS AND CLADDING LOADS PER ASCE 7 SECTION 6.5.12.4.4. IF A PARAPET 3'-0" OR HIGHER OCCURS AROUND THE PERIMETER OF THE ROOF, ZONE 3 MAY BE TREATED AS ZONE 2 FOR ROOF PRESSURE AND SUCTION.

BUILDING ISOMETRIC VIEW



FLAT ROOF (SLOPE LESS THAN 3 DEGREES)
BUILDING COMPONENT AND CLADDING
DESIGN WIND PRESSURES (+) AND SUCTION (-) (PSF)

EFFECTIVE AREA (SQ. FT.)	10		20		50		100		200		500		1000	
ZONE 1	-35.7	9.4	-33.8	8.4	-30.0	7.9	-28.1	7.5	-26.3	7.5	-22.5	7.5	-22.5	7.5
ZONE 1'	-20.6	9.4	-20.6	8.4	-20.6	7.9	-20.6	7.5	-17.8	7.5	-14.1	7.5	-11.5	7.5
ZONE 2	-46.9	9.4	-44.1	8.4	-40.3	7.9	-37.5	7.5	-33.8	7.5	-30.0	7.5	-30.0	7.5
ZONE 3	-63.8	9.4	-58.2	8.4	-50.7	7.9	-44.1	7.5	-37.5	7.5	-30.0	7.5	-30.9	7.5
ZONE 4	-24.4	22.5	-23.5	22.5	-22.5	21.6	-20.6	18.8	-19.7	18.8	-18.8	18.8	-18.8	15.6
ZONE 5	-30.0	22.5	-28.1	22.5	-25.3	21.6	-23.5	18.8	-21.6	18.8	-18.8	18.8	-18.8	15.6

1 BUILDING COMPONENTS & CLADDING WIND LOADS DIAGRAM

1/8" = 1'-0"

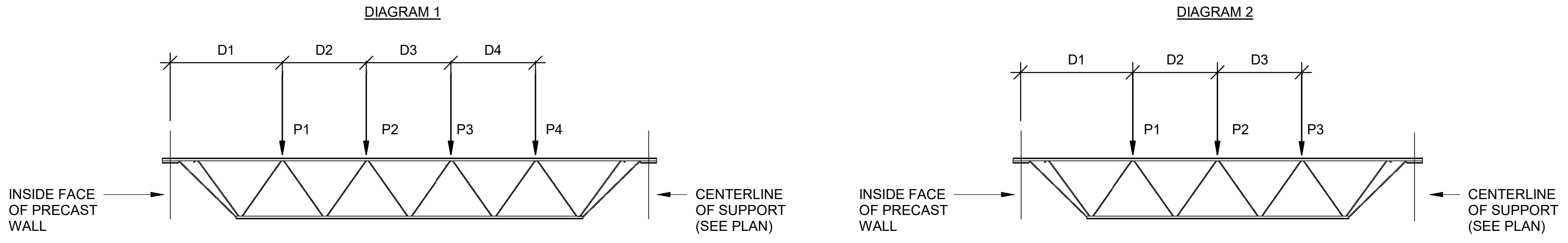


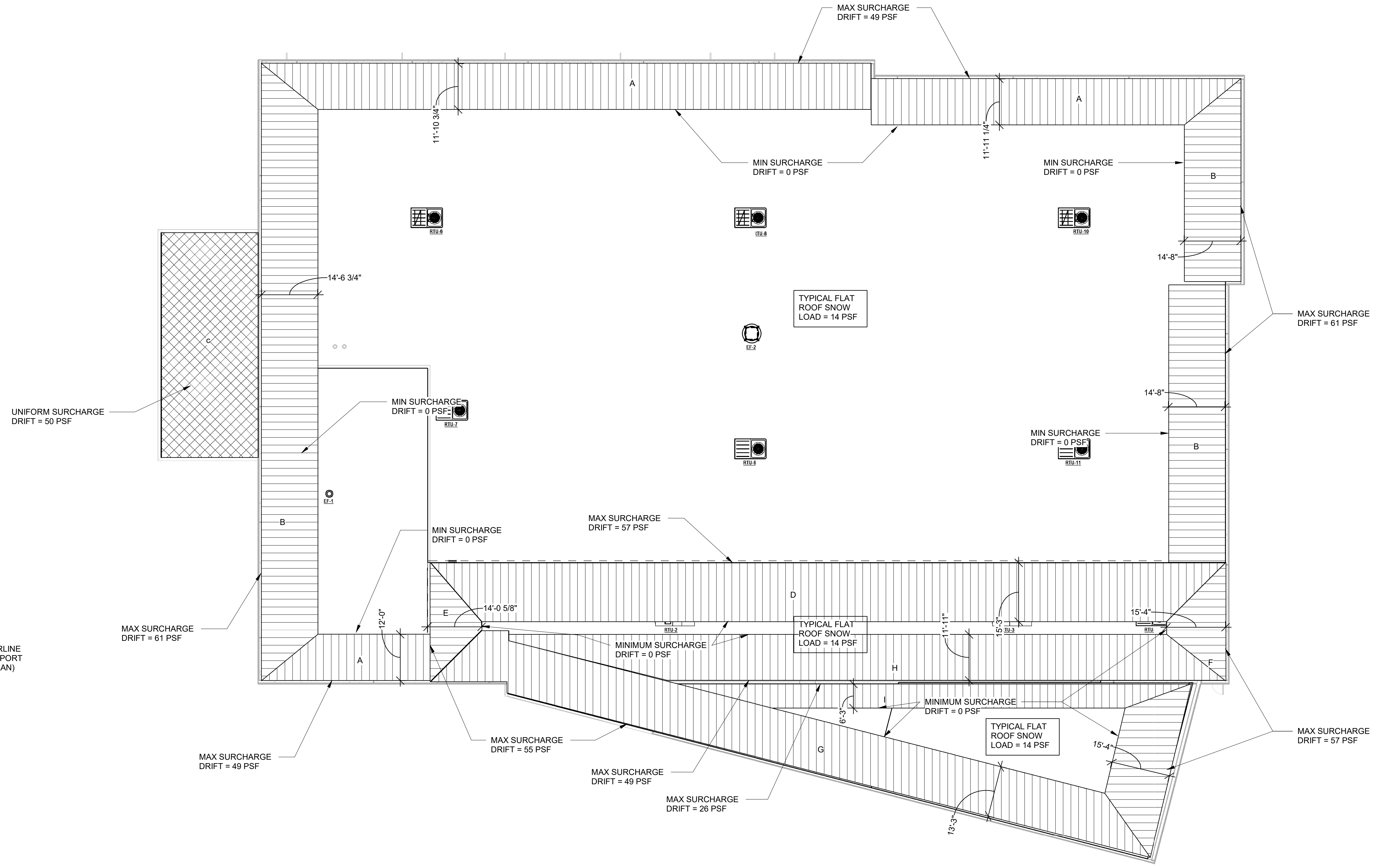
DIAGRAM 1
D1
D2
D3
D4
P1
P2
P3
P4
INSIDE FACE OF PRECAST WALL
CENTERLINE OF SUPPORT (SEE PLAN)
DIAGRAM 2
D1
D2
D3
P1
P2
P3
INSIDE FACE OF PRECAST WALL
CENTERLINE OF SUPPORT (SEE PLAN)

JOIST DESIGNATION	DIAGRAM	SPAN, L (FT-INCHES)	MAX JOIST-GIRDER DEPTH (IN)	CONCENTRATED LOADS				DIMENSIONS			
				P1 (K)	P2 (K)	P3 (K)	P4 (K)	D1 (FT-INCHES)	D2 (FT-INCHES)	D3 (FT-INCHES)	D4 (FT-INCHES)
JG-1	1	SEE PLAN	48	19	15	15	15	8'-7 5/8"	8'-7 5/8"	8'-7 5/8"	8'-7 5/8"
JG-2	1	SEE PLAN	48	18	15	14	14	3'-5 3/4"	8'-2 1/2"	7'-9 1/2"	7'-9 1/2"
JG-3	2	SEE PLAN	48	18	17	17	N/A	7' 8 1/4"	7'-9 1/2"	7'-9 1/2"	N/A

NOTES:
1. LOADS INDICATED ARE UNFACTORED.

2 JOIST LOAD DIAGRAMS

1/4" = 1'-0"


MAX SURCHARGE DRIFT = 49 PSF
A
A
11'-10 3/4"
11'-11 1/4"
MIN SURCHARGE DRIFT = 0 PSF
MIN SURCHARGE DRIFT = 0 PSF
B
RTU-6
RTU-8
RTU-10
14'-8"
14'-6 3/4"
TYPICAL FLAT ROOF SNOW LOAD = 14 PSF
MAX SURCHARGE DRIFT = 61 PSF
C
EF-2
UNIFORM SURCHARGE DRIFT = 50 PSF
MIN SURCHARGE DRIFT = 0 PSF
RTU-7
14'-8"
MIN SURCHARGE DRIFT = 0 PSF
RTU-9
RTU-11
B
EF-1
B
MIN SURCHARGE DRIFT = 0 PSF
MAX SURCHARGE DRIFT = 57 PSF
D
MAX SURCHARGE DRIFT = 61 PSF
E
14'-0 5/8"
12'-0"
RTU-2
MINIMUM SURCHARGE DRIFT = 0 PSF
TYPICAL FLAT ROOF SNOW LOAD = 14 PSF
11'-11"
15'-3"
RTU-3
15'-4"
A
H
F
6'-3"
I
MINIMUM SURCHARGE DRIFT = 0 PSF
TYPICAL FLAT ROOF SNOW LOAD = 14 PSF
MAX SURCHARGE DRIFT = 57 PSF
MAX SURCHARGE DRIFT = 49 PSF
MAX SURCHARGE DRIFT = 55 PSF
G
15'-4"
MAX SURCHARGE DRIFT = 49 PSF
MAX SURCHARGE DRIFT = 26 PSF
13'-3"

3 SNOW DRIFT LOAD DIAGRAM

1/16" = 1'-0"

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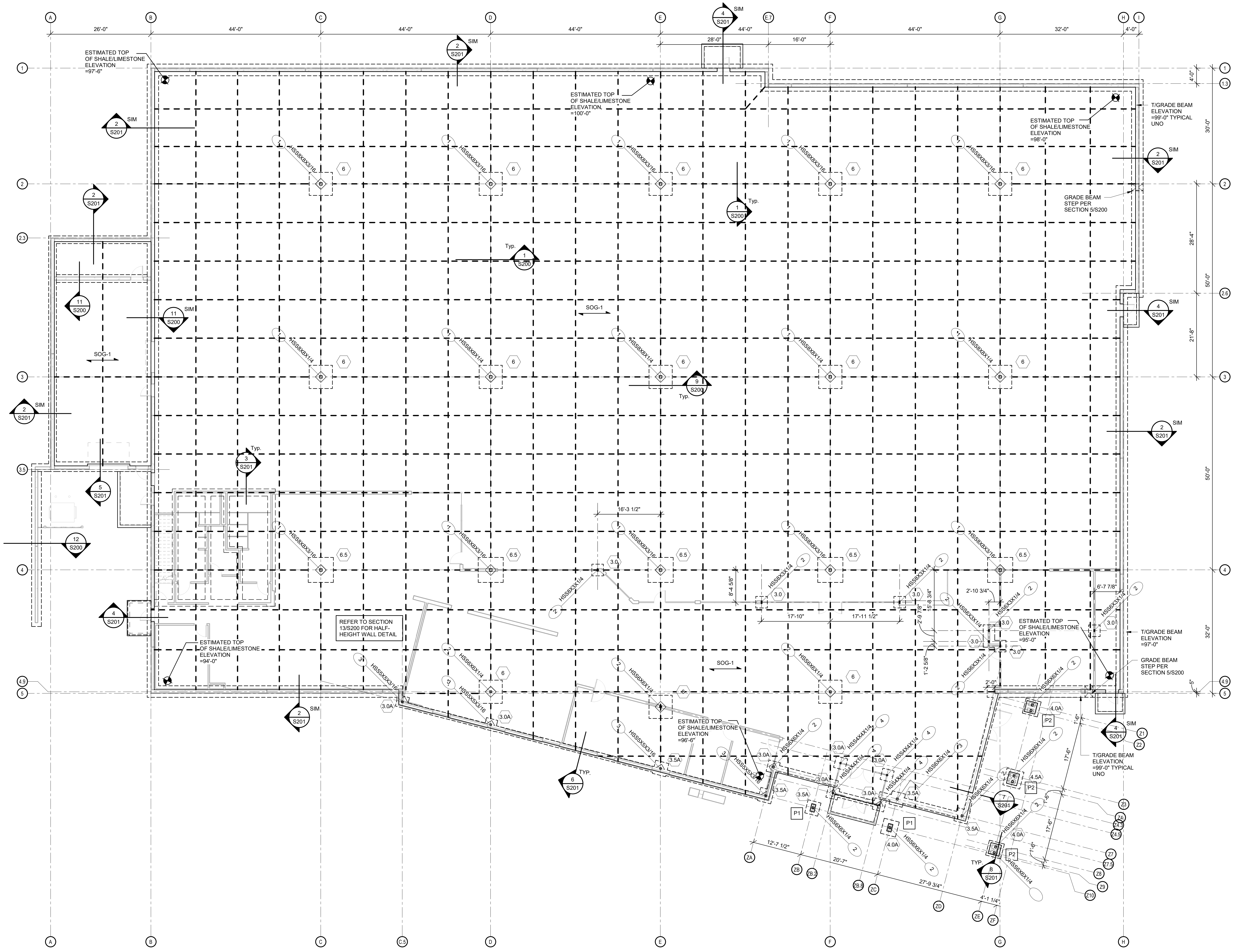
BUILDING DESIGN LOADS

S003



1 FOUNDATION PLAN

3/32" = 1'-0"

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FOUNDATION PLAN

S100

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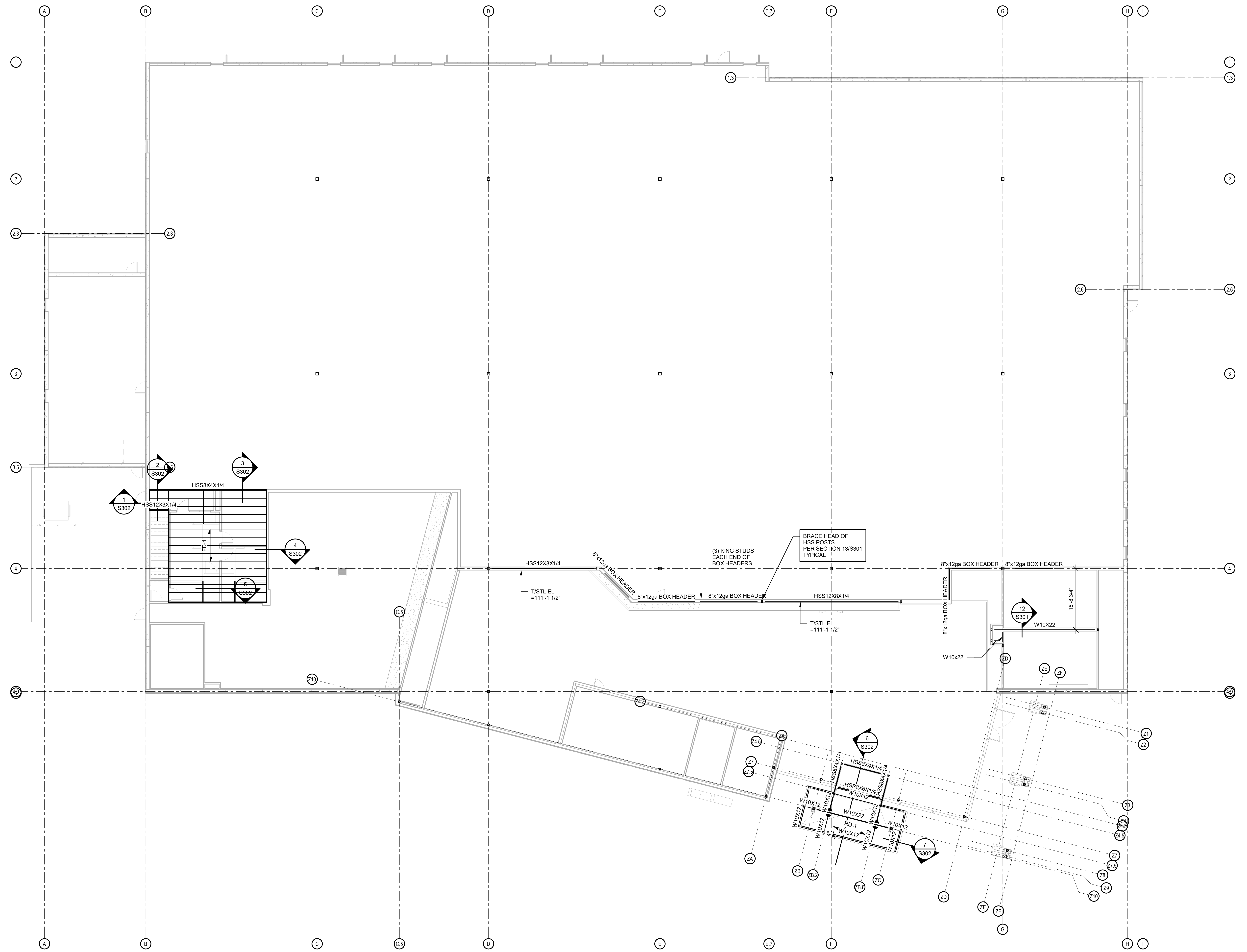

1 SECOND FLOOR FRAMING PLAN

3/32" = 1'-0"

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SECOND FLOOR FRAMING PLAN

S101

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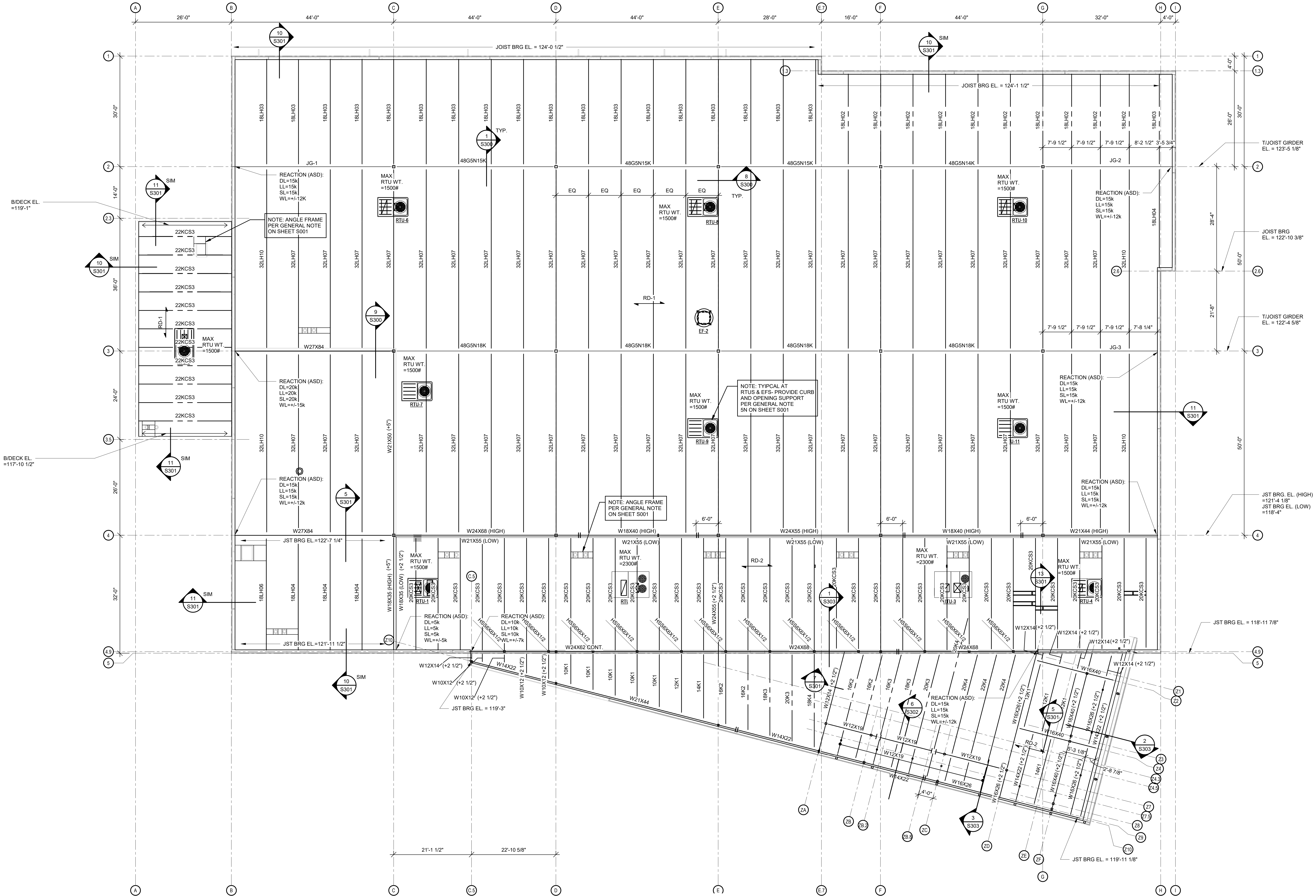

1 ROOF FRAMING PLAN

3/32" = 1'-0"

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ROOF FRAMING PLAN

S102

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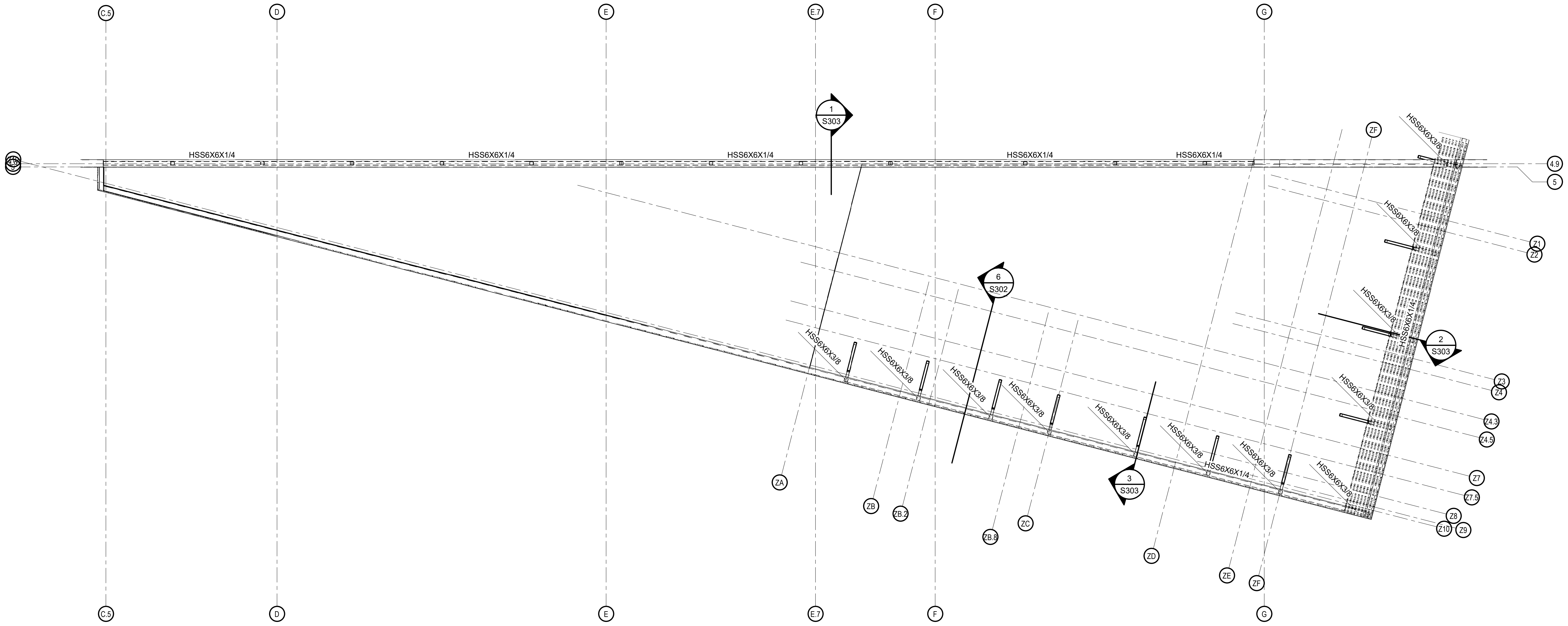

1 ROOF SCREEN FRAMING

1/8" = 1'-0"

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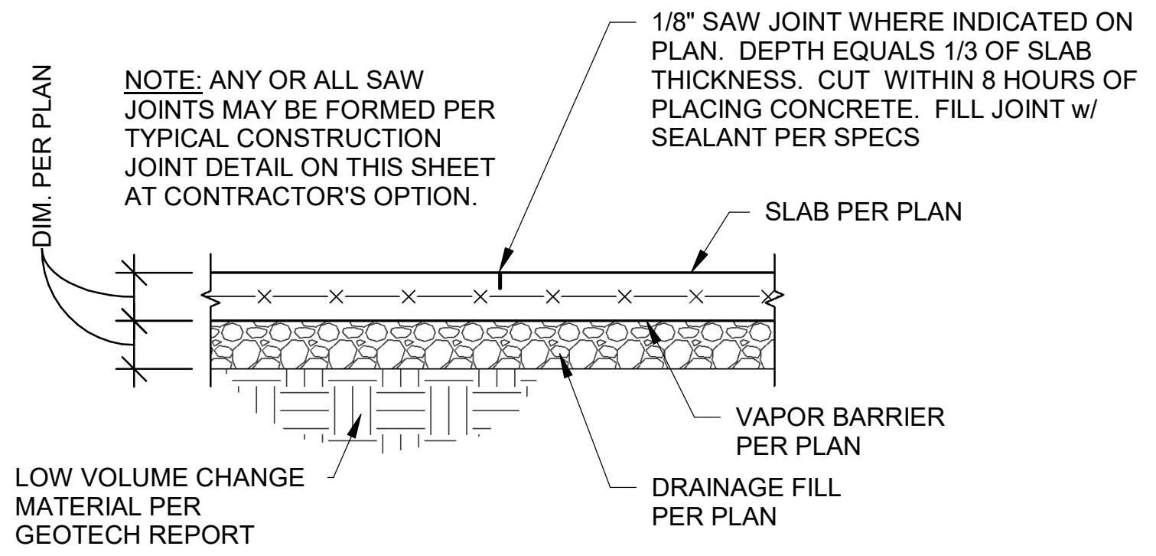
ROOF SCREEN FRAMING PLAN

S103



NOTE: ANY OR ALL SAW JOINTS MAY BE FORMED PER TYPICAL CONSTRUCTION JOINT DETAIL ON THIS SHEET AT CONTRACTOR'S OPTION.

1/8" SAW JOINT WHERE INDICATED ON PLAN. DEPTH EQUALS 1/3 OF SLAB THICKNESS. CUT WITHIN 8 HOURS OF PLACING CONCRETE. FILL JOINT w/ SEALANT PER SPECS

SLAB PER PLAN

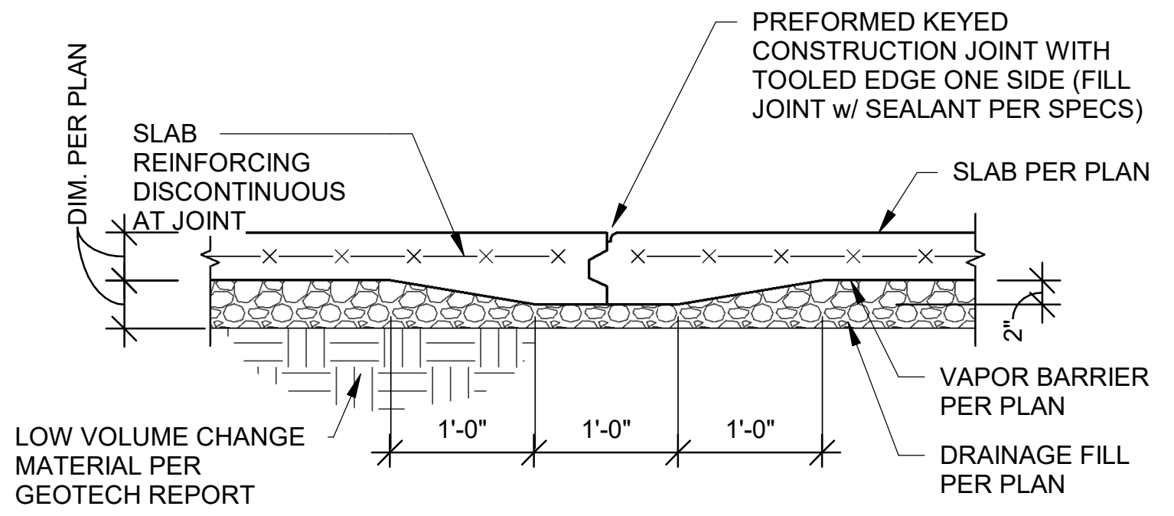
VAPOR BARRIER PER PLAN

DRAINAGE FILL PER PLAN

LOW VOLUME CHANGE MATERIAL PER GEOTECH REPORT

TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

1 SECTION
3/4" = 1'-0"



SLAB REINFORCING DISCONTINUOUS AT JOINT

PREFORMED KEYED CONSTRUCTION JOINT WITH TOOLED EDGE ONE SIDE (FILL JOINT w/ SEALANT PER SPECS)

SLAB PER PLAN

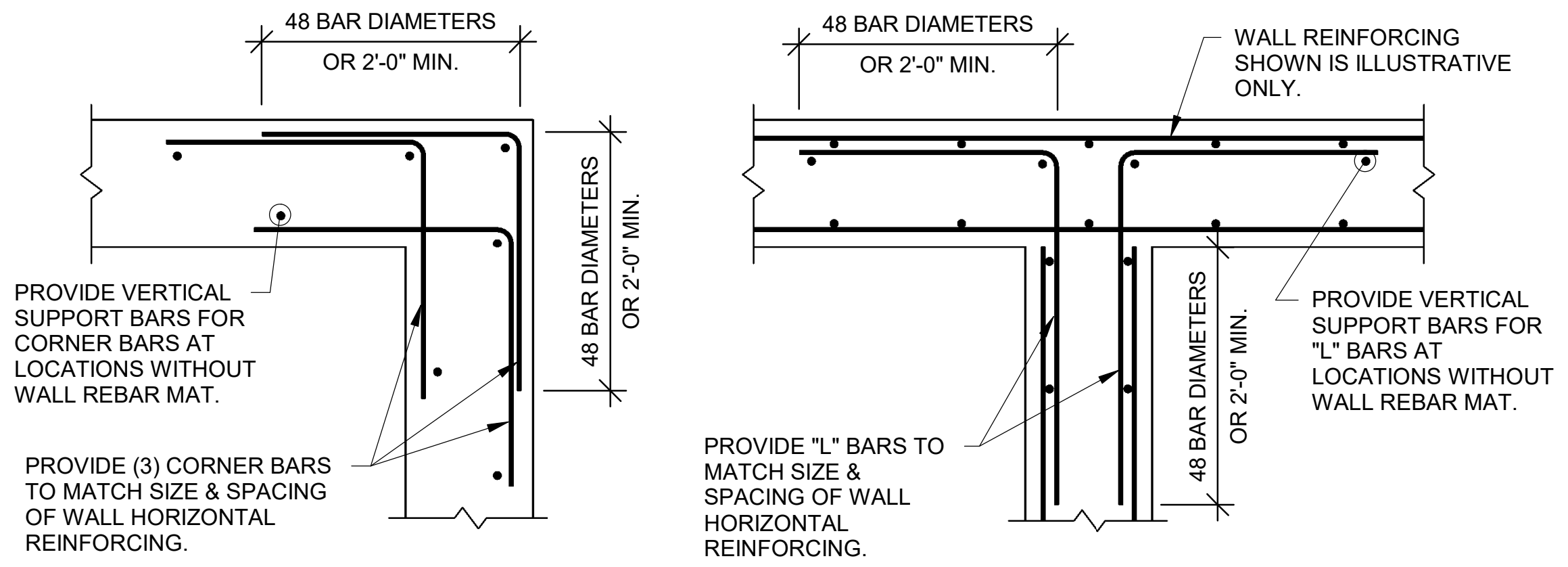
VAPOR BARRIER PER PLAN

DRAINAGE FILL PER PLAN

LOW VOLUME CHANGE MATERIAL PER GEOTECH REPORT

TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

2 SECTION
3/4" = 1'-0"



PROVIDE VERTICAL SUPPORT BARS FOR CORNER BARS AT LOCATIONS WITHOUT WALL REBAR MAT.

PROVIDE (3) CORNER BARS TO MATCH SIZE & SPACING OF WALL HORIZONTAL REINFORCING.

TYPICAL CORNER BARS AT CONCRETE WALLS & FOUNDATIONS

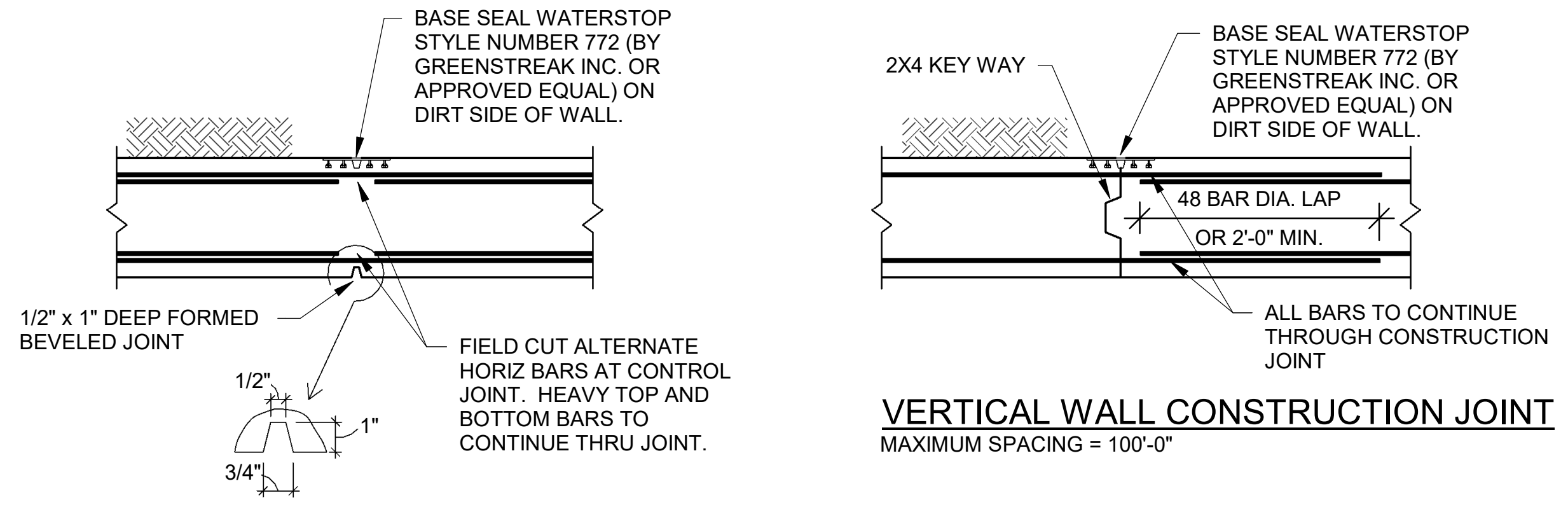
WALL REINFORCING SHOWN IS ILLUSTRATIVE ONLY.

PROVIDE VERTICAL SUPPORT BARS FOR "L" BARS AT LOCATIONS WITHOUT WALL REBAR MAT.

PROVIDE "L" BARS TO MATCH SIZE & SPACING OF WALL HORIZONTAL REINFORCING.

TYPICAL T-INTERSECTION REINFORCING AT CONCRETE WALLS & FOUNDATIONS

3 TYPICAL INTERSECTING CONCRETE WALL REINFORCING
3/4" = 1'-0"



BASE SEAL WATERSTOP STYLE NUMBER 772 (BY GREENSTREAK INC. OR APPROVED EQUAL) ON DIRT SIDE OF WALL.

1/2" x 1" DEEP FORMED BEVELED JOINT

FIELD CUT ALTERNATE HORIZ BARS AT CONTROL JOINT. HEAVY TOP AND BOTTOM BARS TO CONTINUE THRU JOINT.

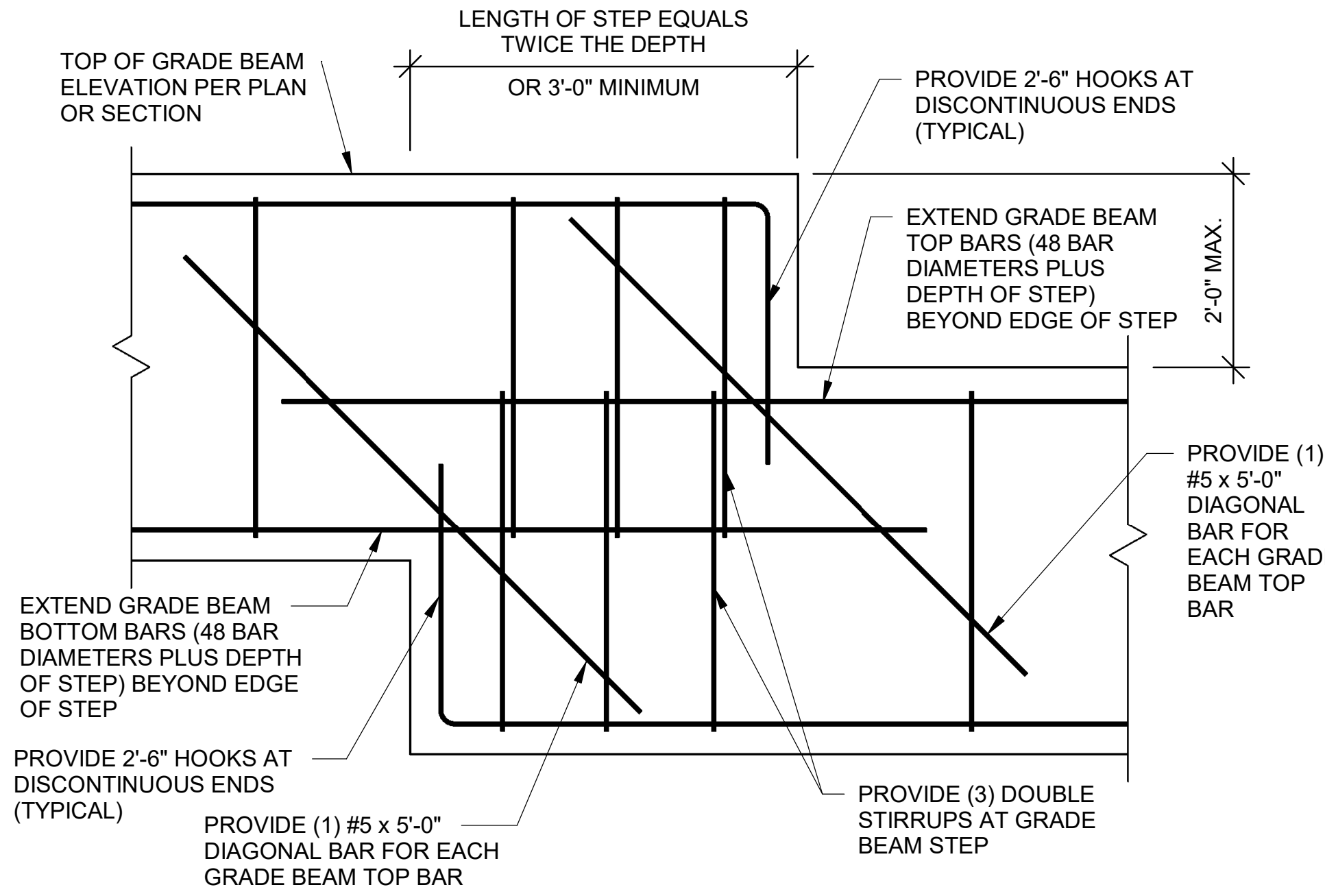
VERTICAL WALL CONTROL JOINT
MAXIMUM SPACING = 25'-0"
(COORDINATE LOCATIONS WITH ARCHITECT/ALIGN WITH MASONRY CONTROL/EXPANSION JOINTS ABOVE)

BASE SEAL WATERSTOP STYLE NUMBER 772 (BY GREENSTREAK INC. OR APPROVED EQUAL) ON DIRT SIDE OF WALL.

ALL BARS TO CONTINUE THROUGH CONSTRUCTION JOINT

VERTICAL WALL CONSTRUCTION JOINT
MAXIMUM SPACING = 100'-0"

4 VERTICAL WALL CONTROL JOINT
3/4" = 1'-0"



LENGTH OF STEP EQUALS TWICE THE DEPTH OR 3'-0" MINIMUM

TOP OF GRADE BEAM ELEVATION PER PLAN OR SECTION

PROVIDE 2'-6" HOOKS AT DISCONTINUOUS ENDS (TYPICAL)

EXTEND GRADE BEAM TOP BARS (48 BAR DIAMETERS PLUS DEPTH OF STEP) BEYOND EDGE OF STEP

PROVIDE (1) #5 x 5'-0" DIAGONAL BAR FOR EACH GRADE BEAM TOP BAR

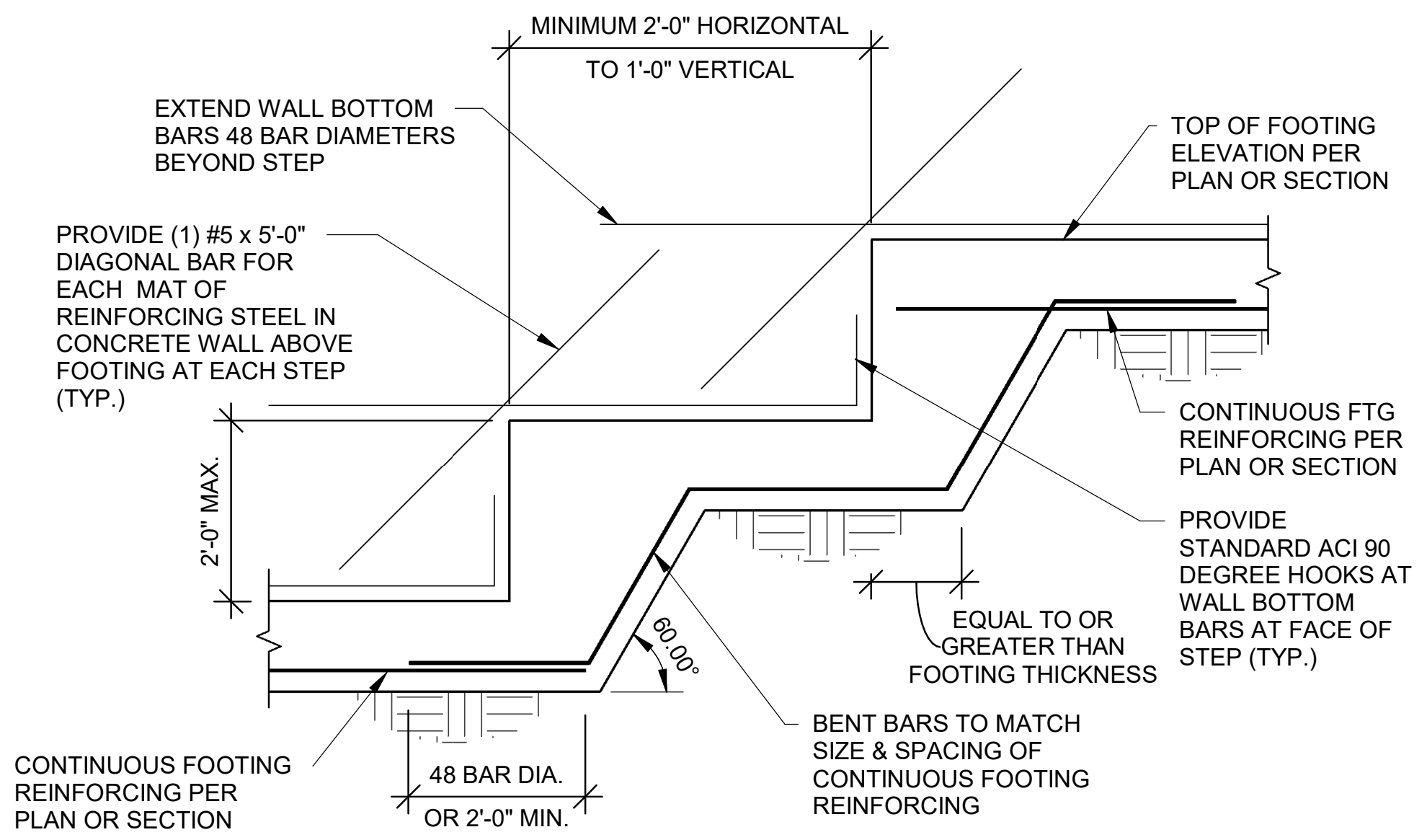
EXTEND GRADE BEAM BOTTOM BARS (48 BAR DIAMETERS PLUS DEPTH OF STEP) BEYOND EDGE OF STEP

PROVIDE 2'-6" HOOKS AT DISCONTINUOUS ENDS (TYPICAL)

PROVIDE (1) #5 x 5'-0" DIAGONAL BAR FOR EACH GRADE BEAM TOP BAR

PROVIDE (3) DOUBLE STIRRUPS AT GRADE BEAM STEP

5 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



MINIMUM 2'-0" HORIZONTAL TO 1'-0" VERTICAL

EXTEND WALL BOTTOM BARS 48 BAR DIAMETERS BEYOND STEP

PROVIDE (1) #5 x 5'-0" DIAGONAL BAR FOR EACH MAT OF REINFORCING STEEL IN CONCRETE WALL ABOVE FOOTING AT EACH STEP (TYP.)

TOP OF FOOTING ELEVATION PER PLAN OR SECTION

CONTINUOUS FTG REINFORCING PER PLAN OR SECTION

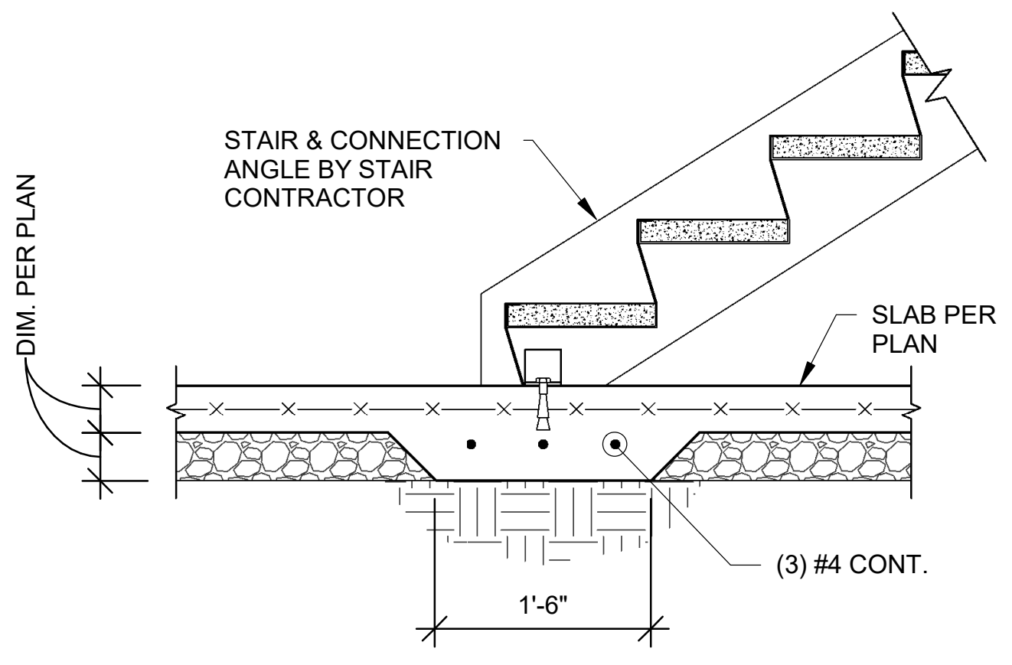
PROVIDE STANDARD ACI 90 DEGREE HOOKS AT WALL BOTTOM BARS AT FACE OF STEP (TYP.)

EQUAL TO OR GREATER THAN FOOTING THICKNESS

BENT BARS TO MATCH SIZE & SPACING OF CONTINUOUS FOOTING REINFORCING

CONTINUOUS FOOTING REINFORCING PER PLAN OR SECTION

6 TYPICAL FOOTING STEP
1/2" = 1'-0"



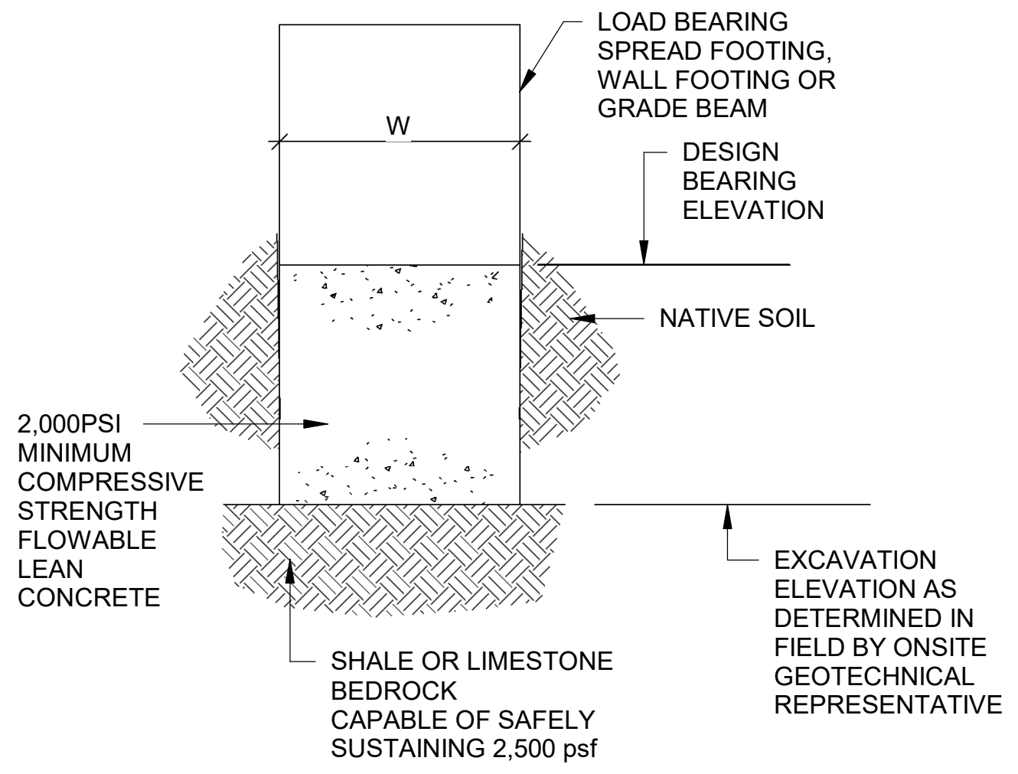
STAIR & CONNECTION ANGLE BY STAIR CONTRACTOR

SLAB PER PLAN

(3) #4 CONT.

TYPICAL THICKENED SLAB AT BASE OF STAIR

7 SECTION
3/4" = 1'-0"



LOAD BEARING SPREAD FOOTING, WALL FOOTING OR GRADE BEAM

DESIGN BEARING ELEVATION

NATIVE SOIL

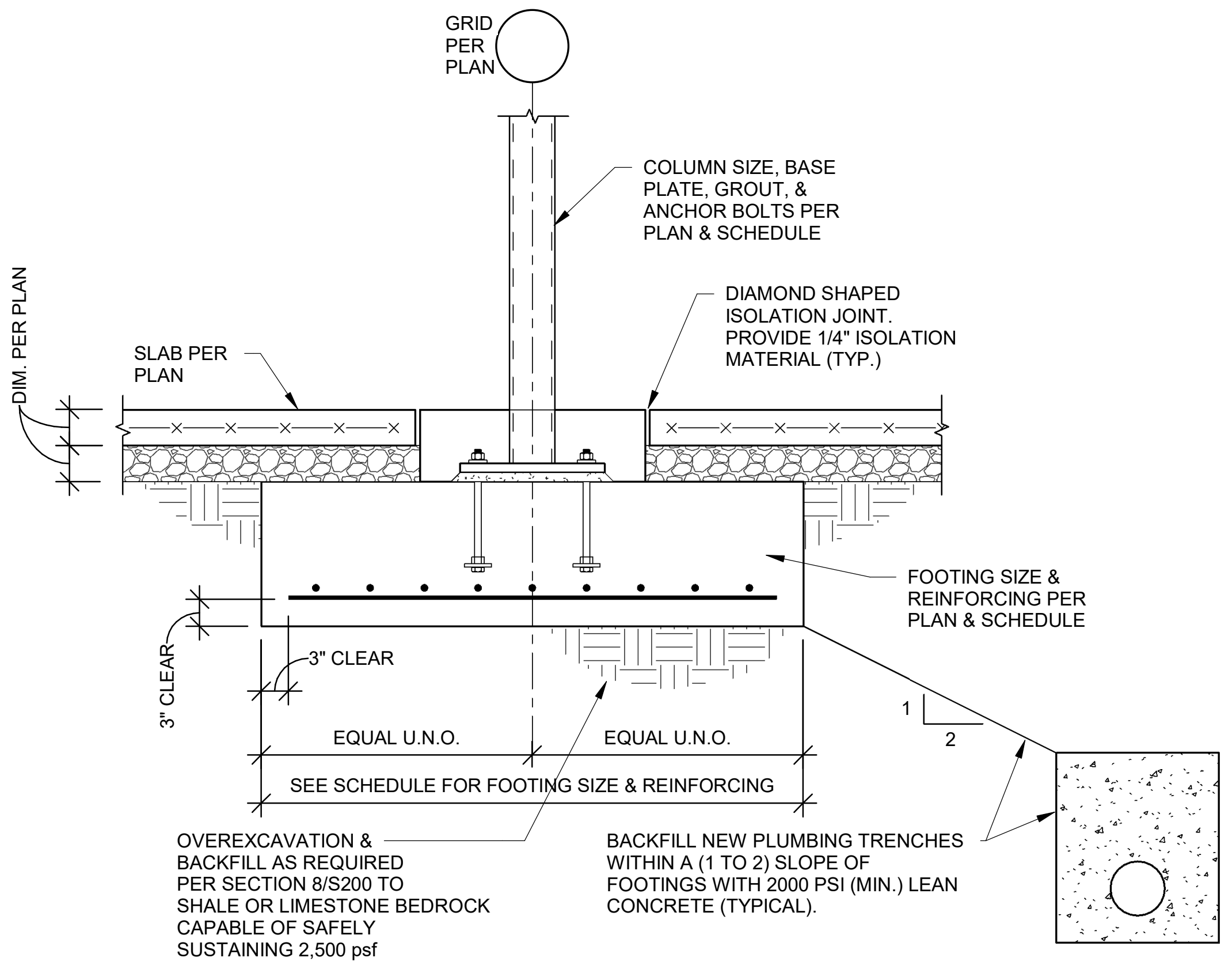
2,000PSI MINIMUM COMPRESSIVE STRENGTH FLOWABLE LEAN CONCRETE

EXCAVATION ELEVATION AS DETERMINED IN FIELD BY ONSITE GEOTECHNICAL REPRESENTATIVE

SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

LEAN CONCRETE BACKFILL

8 OVEREXCAVATION DETAIL
3/4" = 1'-0"



COLUMN SIZE, BASE PLATE, GROUT, & ANCHOR BOLTS PER PLAN & SCHEDULE

SLAB PER PLAN

DIAMOND SHAPED ISOLATION JOINT. PROVIDE 1/4" ISOLATION MATERIAL (TYP.)

FOOTING SIZE & REINFORCING PER PLAN & SCHEDULE

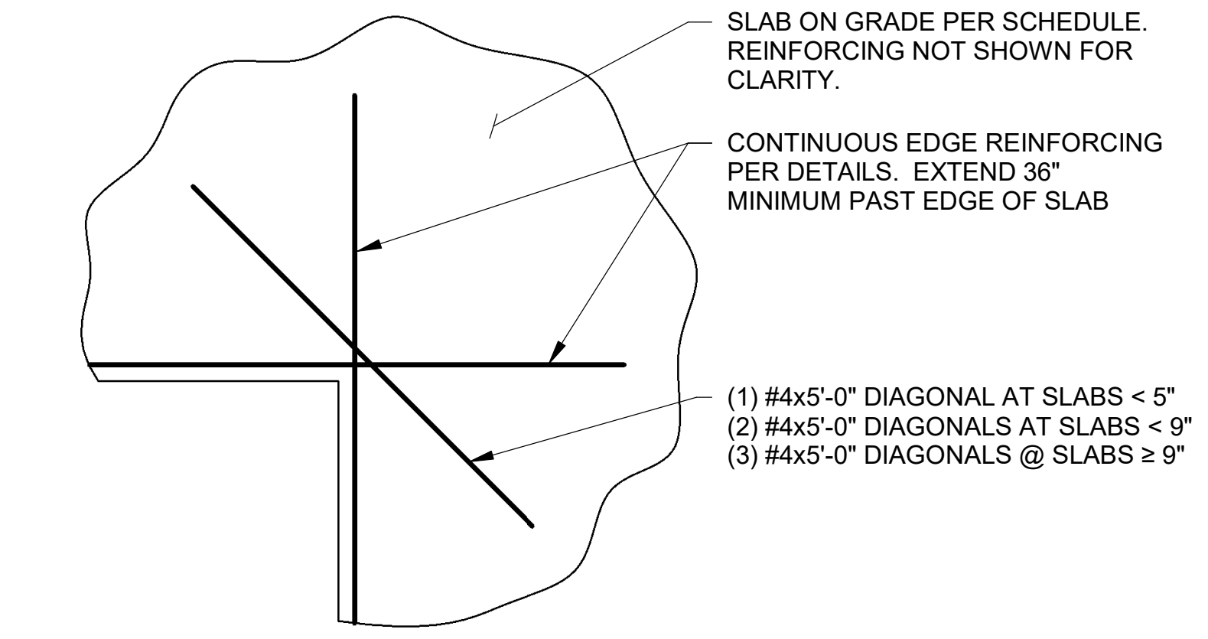
SEE SCHEDULE FOR FOOTING SIZE & REINFORCING

OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

BACKFILL NEW PLUMBING TRENCHES WITHIN A (1 TO 2) SLOPE OF FOOTINGS WITH 2000 PSI (MIN.) LEAN CONCRETE (TYPICAL).

TYPICAL INTERIOR COLUMN FOOTING

9 SECTION
3/4" = 1'-0"



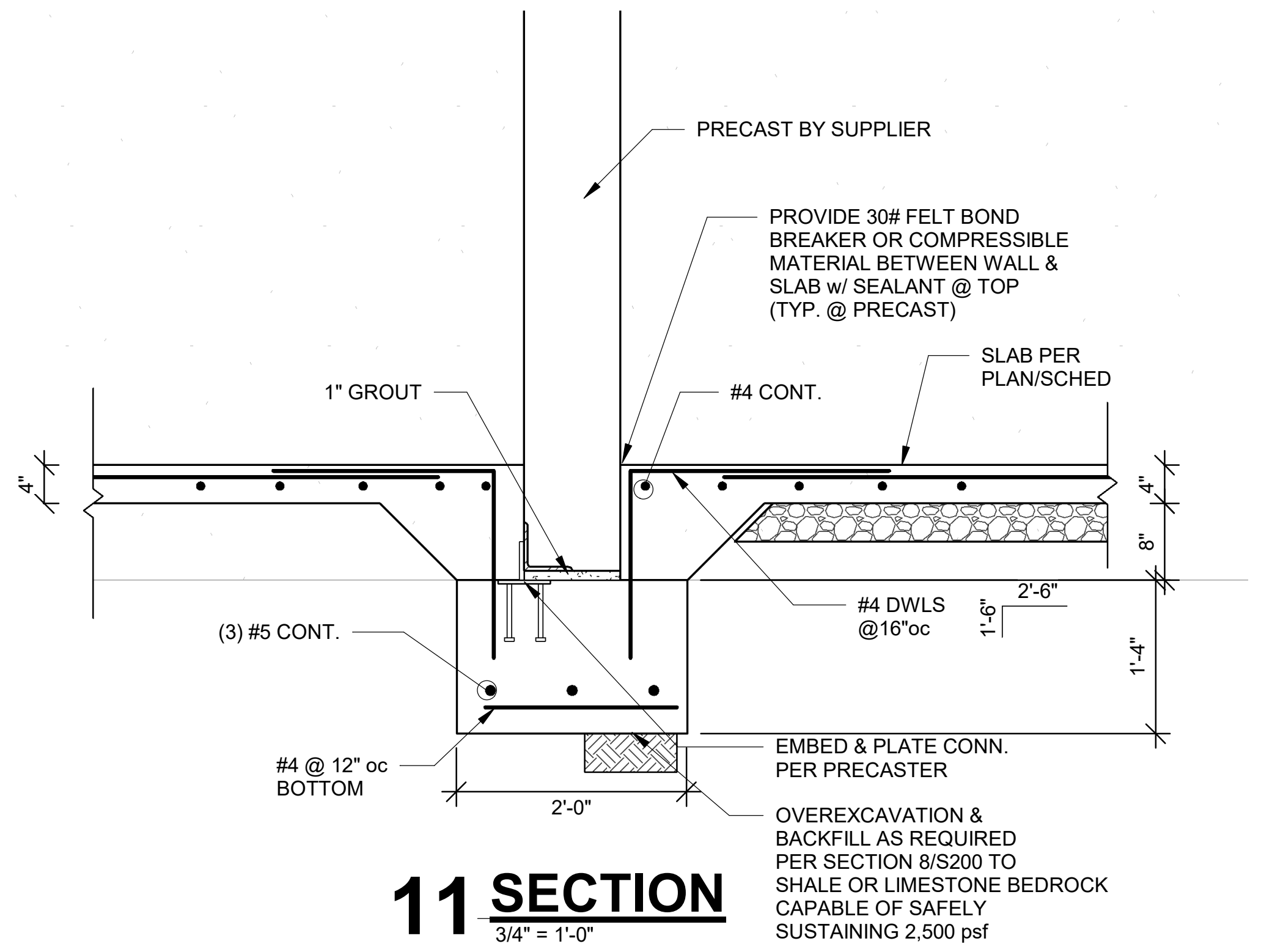
SLAB ON GRADE PER SCHEDULE. REINFORCING NOT SHOWN FOR CLARITY.

CONTINUOUS EDGE REINFORCING PER DETAILS. EXTEND 36" MINIMUM PAST EDGE OF SLAB

(1) #4x5'-0" DIAGONAL AT SLABS < 5"
(2) #4x5'-0" DIAGONALS AT SLABS < 9"
(3) #4x5'-0" DIAGONALS @ SLABS ≥ 9"

TYPICAL SLAB ON GRADE RE-ENTRANT CORNER BARS

10 DETAIL
1/2" = 1'-0"



PRECAST BY SUPPLIER

PROVIDE 30# FELT BOND BREAKER OR COMPRESSIBLE MATERIAL BETWEEN WALL & SLAB w/ SEALANT @ TOP (TYP. @ PRECAST)

1" GROUT

#4 CONT.

SLAB PER PLAN/SCHED

(3) #5 CONT.

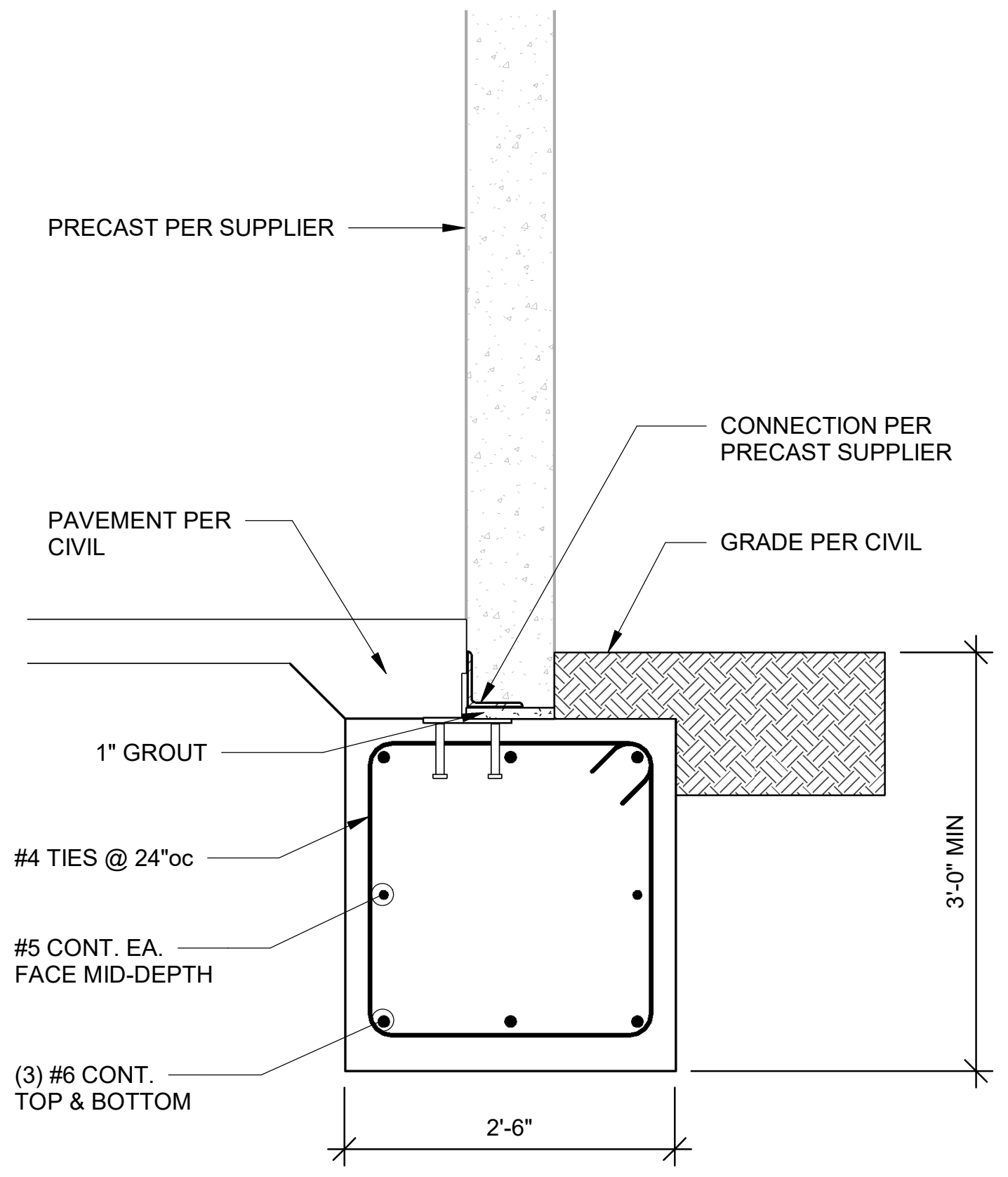
#4 DWLS @16"oc

#4 @ 12" oc BOTTOM

EMBED & PLATE CONN. PER PRECASTER

OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

11 SECTION
3/4" = 1'-0"



PRECAST PER SUPPLIER

CONNECTION PER PRECAST SUPPLIER

PAVEMENT PER CIVIL

GRADE PER CIVIL

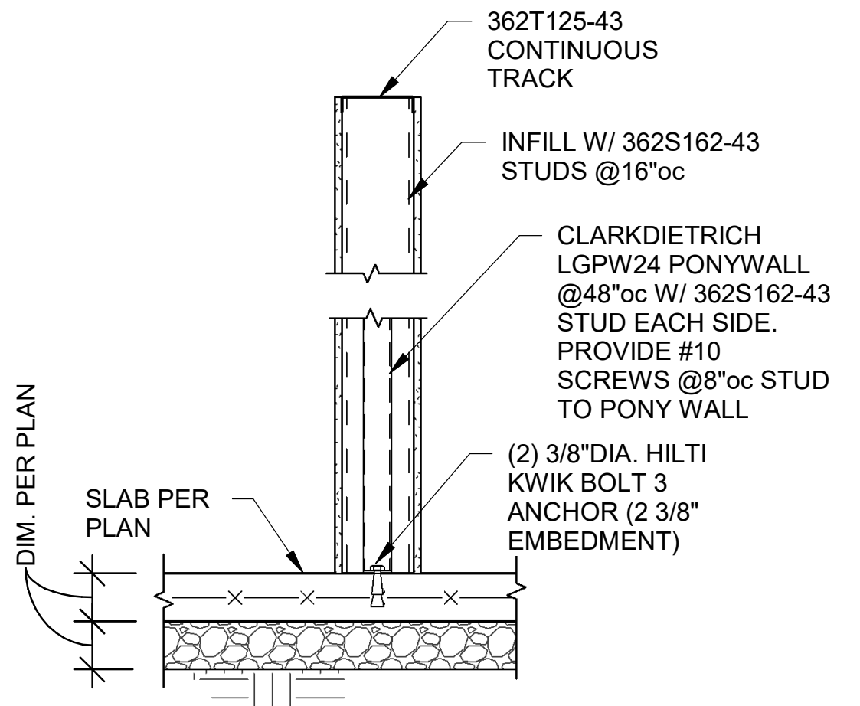
1" GROUT

#4 TIES @ 24"oc

#5 CONT. EA. FACE MID-DEPTH

(3) #6 CONT. TOP & BOTTOM

12 SECTION
3/4" = 1'-0"



362T125-43 CONTINUOUS TRACK

INFILL W/ 362S162-43 STUDS @16"oc

CLARKDIETRICH LGPW24 PONYWALL @48"oc W/ 362S162-43 STUD EACH SIDE. PROVIDE #10 SCREWS @8"oc STUD TO PONY WALL

SLAB PER PLAN

(2) 3/8"DIA. HILTI KWIK BOLT 3 ANCHOR (2 3/8" EMBEDMENT)

13 SECTION
3/4" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
09/20/2022

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CLARK ANDREW BASINGER
PE-2010026832
07/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit , MO 64064

#	Revisions:

Project #: 211107

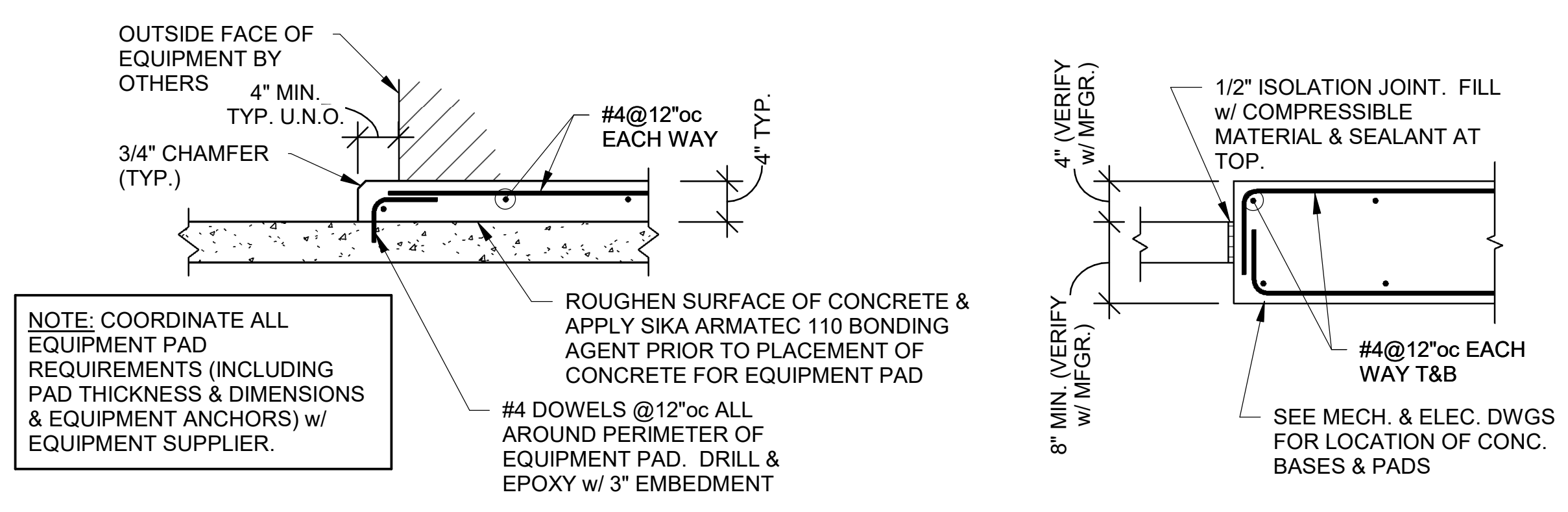
CONSTRUCTION DOCUMENTS

July 19, 2022

FOUNDATION SECTIONS

S200

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/20/2022


OUTSIDE FACE OF EQUIPMENT BY OTHERS
4" MIN. TYP. U.N.O.
3/4" CHAMFER (TYP.)
#4@12"oc EACH WAY
4" TYP.
ROUGHEN SURFACE OF CONCRETE & APPLY SIKA ARMATEC 110 BONDING AGENT PRIOR TO PLACEMENT OF CONCRETE FOR EQUIPMENT PAD
#4 DOWELS @12"oc ALL AROUND PERIMETER OF EQUIPMENT PAD. DRILL & EPOXY w/ 3" EMBEDMENT
4" (VERIFY w/ MFGR.)
8" MIN. (VERIFY w/ MFGR.)
1/2" ISOLATION JOINT. FILL w/ COMPRESSIBLE MATERIAL & SEALANT AT TOP.
#4@12"oc EACH WAY T&B
SEE MECH. & ELEC. DWGS FOR LOCATION OF CONC. BASES & PADS

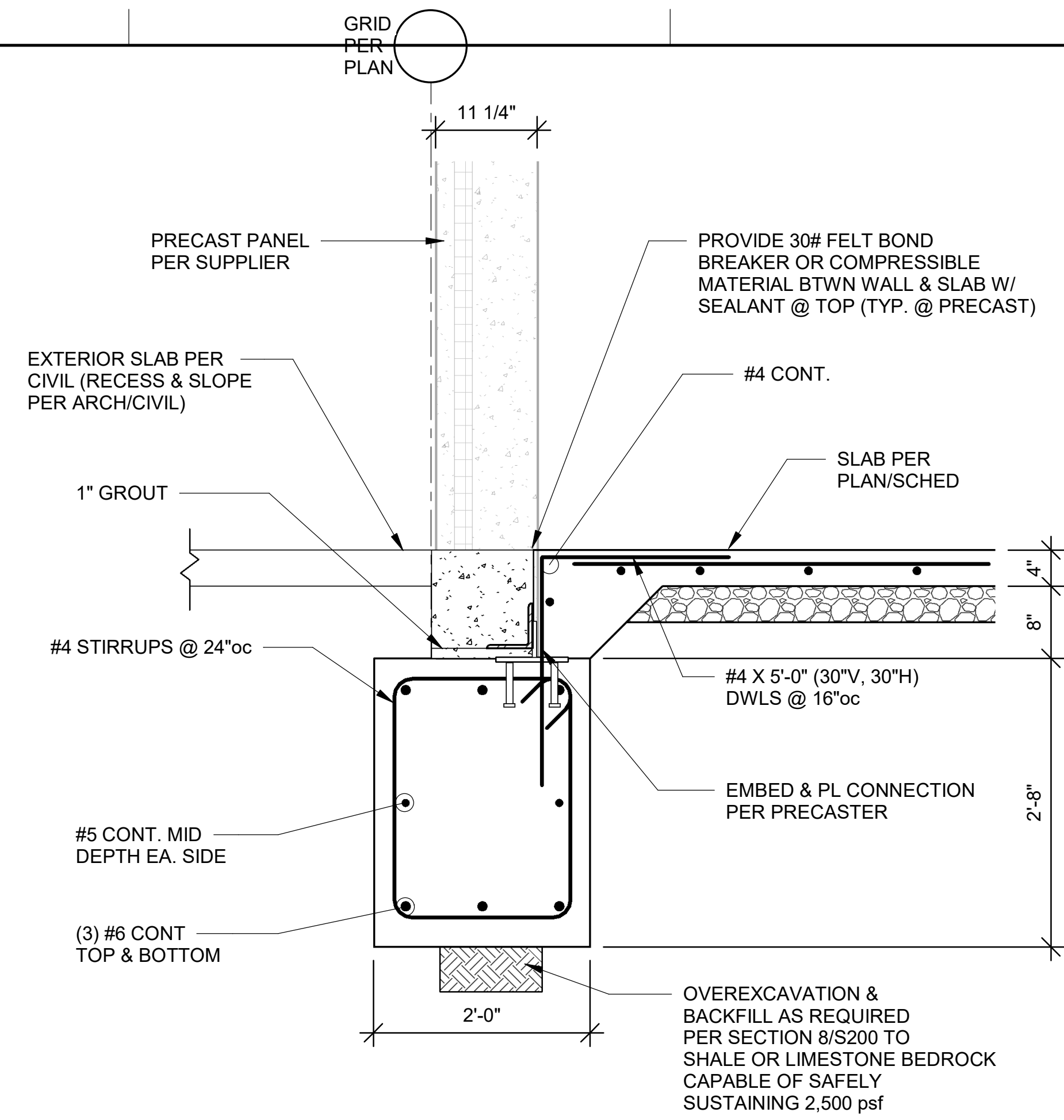
NOTE: COORDINATE ALL EQUIPMENT PAD REQUIREMENTS (INCLUDING PAD THICKNESS & DIMENSIONS & EQUIPMENT ANCHORS) w/ EQUIPMENT SUPPLIER.

EQUIPMENT PAD

CONCRETE BASES

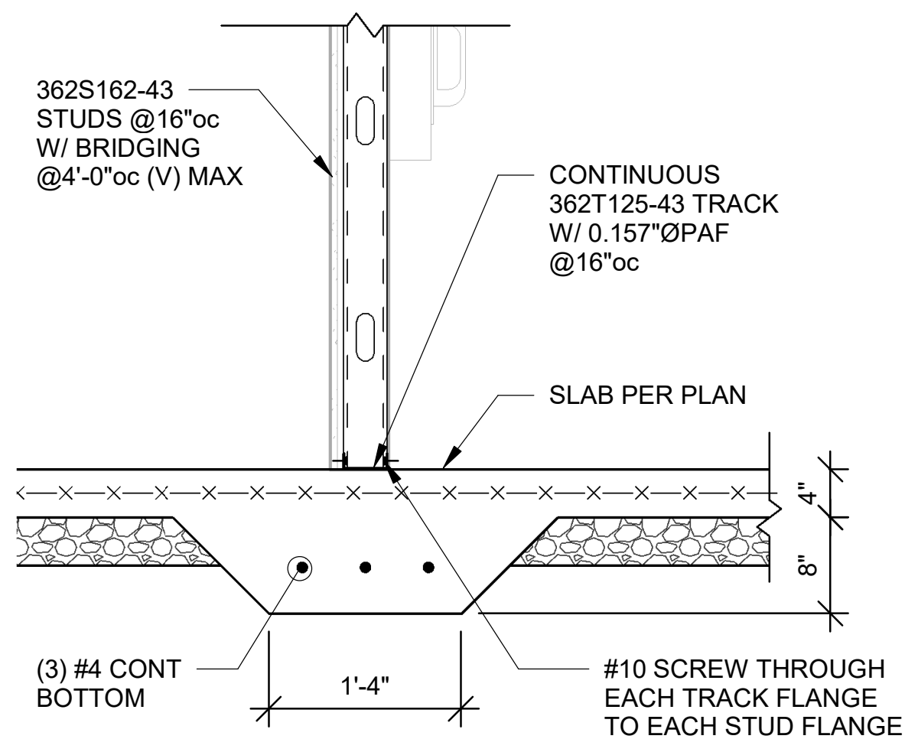
1 TYPICAL EQUIPMENT PAD AND BASE

3/4" = 1'-0"


GRID PER PLAN
11 1/4"
PRECAST PANEL PER SUPPLIER
PROVIDE 30# FELT BOND BREAKER OR COMPRESSIBLE MATERIAL BTWN WALL & SLAB W/ SEALANT @ TOP (TYP. @ PRECAST)
EXTERIOR SLAB PER CIVIL (RECESS & SLOPE PER ARCH/CIVIL)
#4 CONT.
SLAB PER PLAN/SCHED
1" GROUT
#4 STIRRUPS @ 24"oc
4"
8"
#4 X 5'-0" (30"V, 30"H) DWLS @ 16"oc
EMBED & PL CONNECTION PER PRECASTER
2'-8"
#5 CONT. MID DEPTH EA. SIDE
(3) #6 CONT TOP & BOTTOM
2'-0"
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

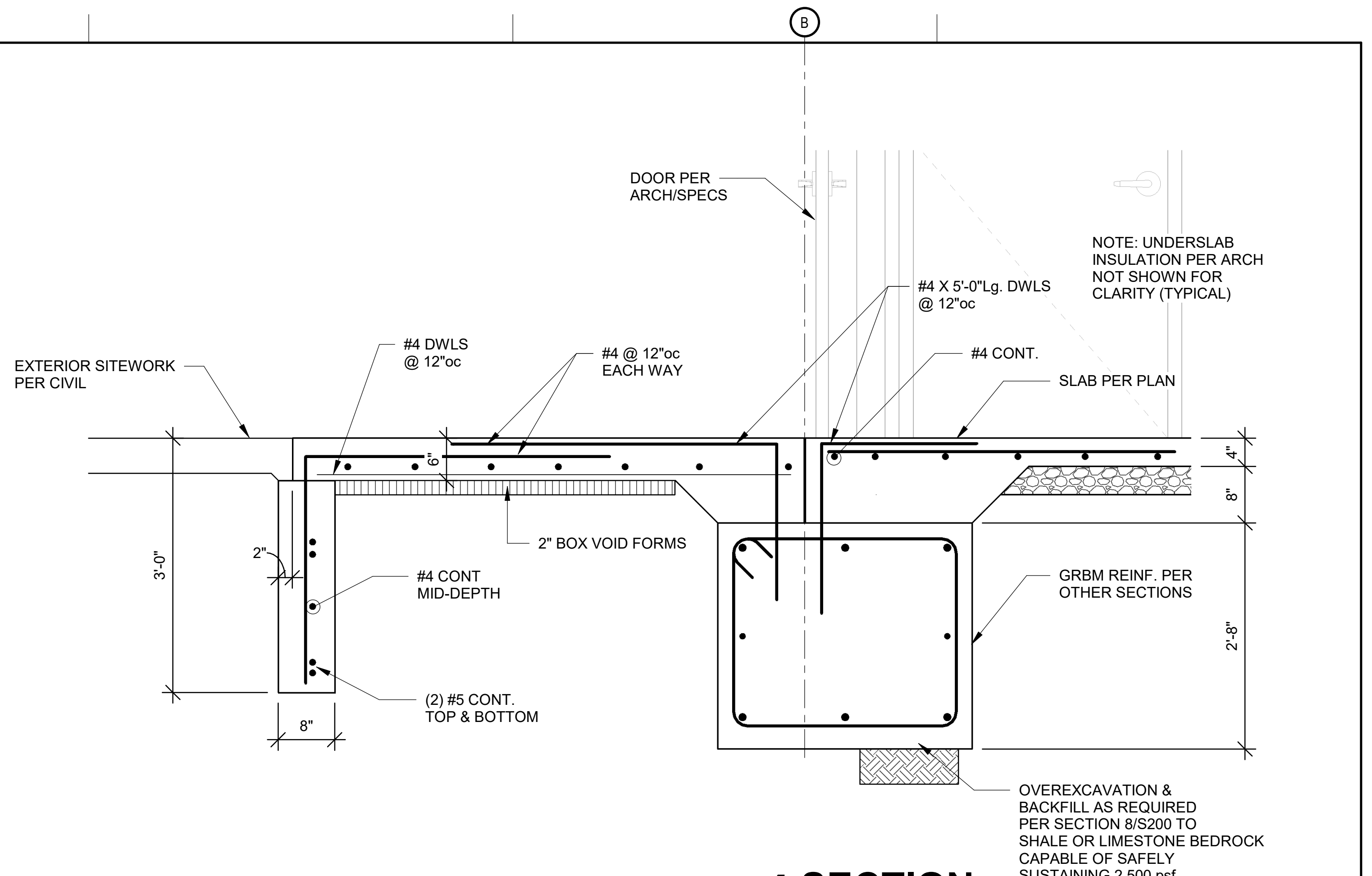
2 SECTION

3/4" = 1'-0"


362S162-43 STUDS @16"oc W/ BRIDGING @4'-0"oc (V) MAX
CONTINUOUS 362T125-43 TRACK W/ 0.157"ØPAF @16"oc
SLAB PER PLAN
4"
8"
(3) #4 CONT BOTTOM
1'-4"
#10 SCREW THROUGH EACH TRACK FLANGE TO EACH STUD FLANGE

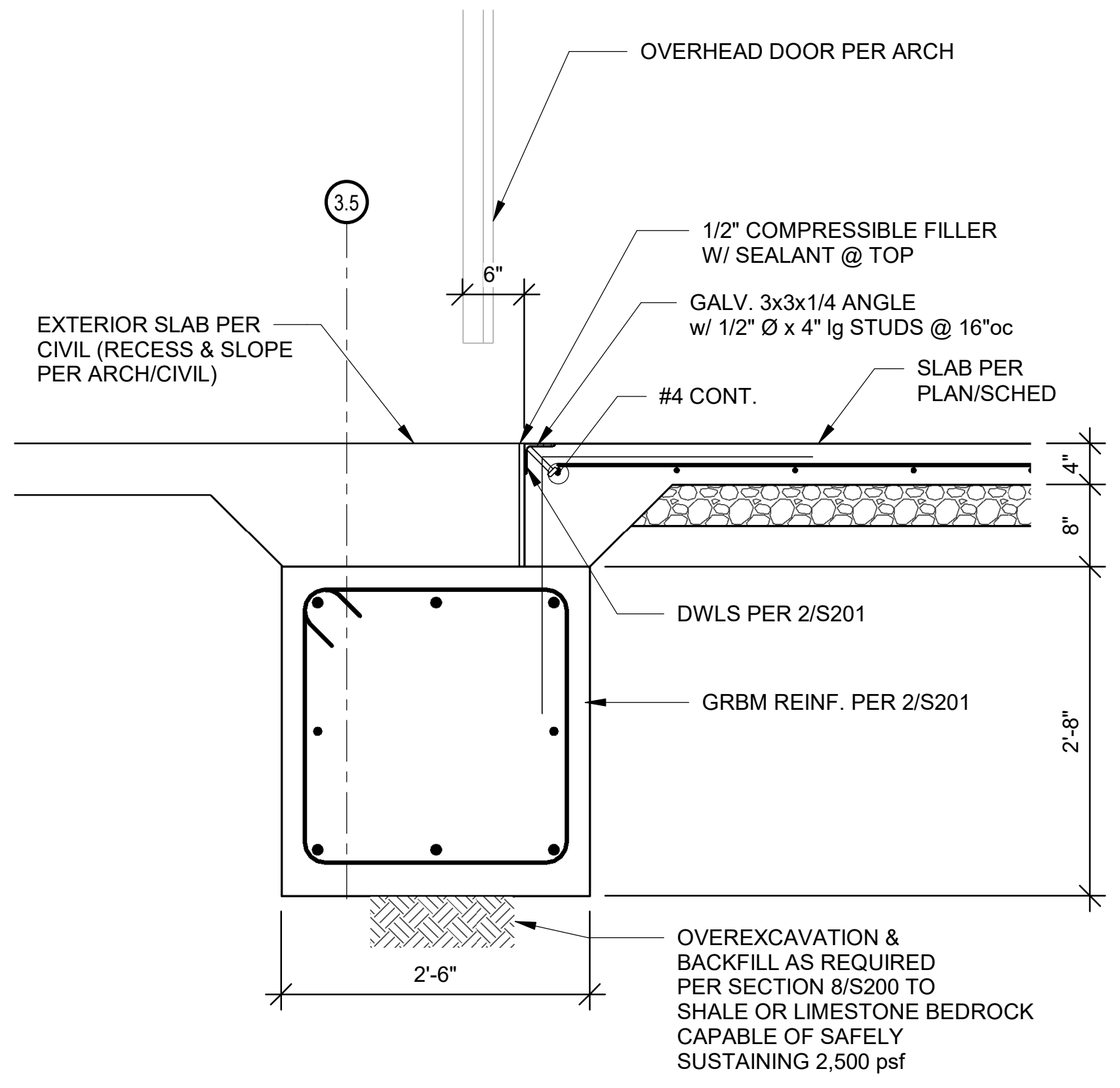
3 SECTION

3/4" = 1'-0"


B
DOOR PER ARCH/SPECS
NOTE: UNDERSLAB INSULATION PER ARCH NOT SHOWN FOR CLARITY (TYPICAL)
#4 X 5'-0"Lg. DWLS @ 12"oc
EXTERIOR SITEWORK PER CIVIL
#4 DWLS @ 12"oc
#4 @ 12"oc EACH WAY
#4 CONT.
SLAB PER PLAN
6"
4"
8"
2" BOX VOID FORMS
3'-0"
2"
#4 CONT MID-DEPTH
GRBM REINF. PER OTHER SECTIONS
2'-8"
(2) #5 CONT. TOP & BOTTOM
8"
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

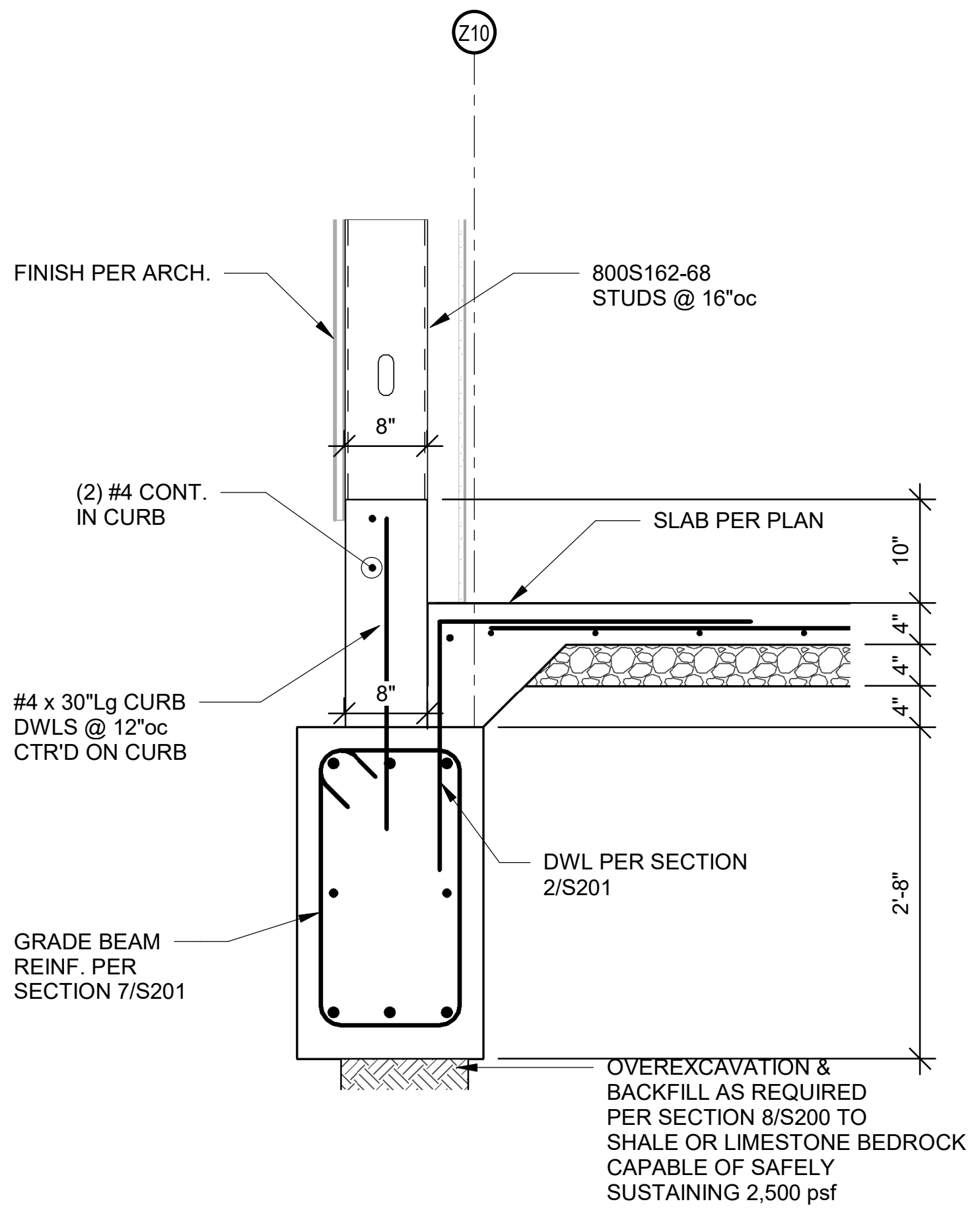
4 SECTION

3/4" = 1'-0"


OVERHEAD DOOR PER ARCH
3.5
6"
1/2" COMPRESSIBLE FILLER W/ SEALANT @ TOP
GALV. 3x3x1/4 ANGLE w/ 1/2" Ø x 4" lg STUDS @ 16"oc
EXTERIOR SLAB PER CIVIL (RECESS & SLOPE PER ARCH/CIVIL)
SLAB PER PLAN/SCHED
#4 CONT.
4"
8"
DWLS PER 2/S201
GRBM REINF. PER 2/S201
2'-8"
2'-6"
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

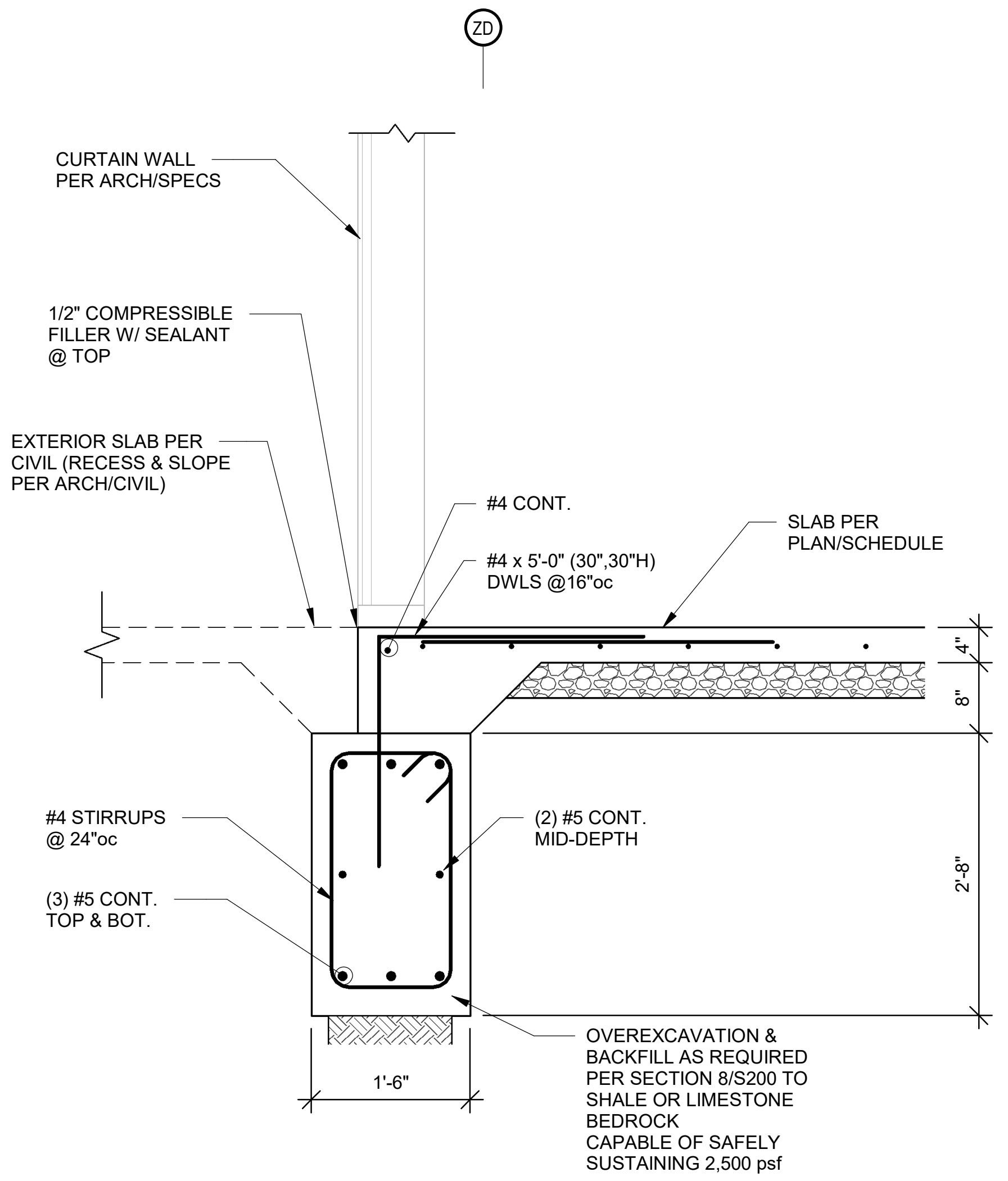
5 SECTION

3/4" = 1'-0"


Z10
FINISH PER ARCH.
800S162-68 STUDS @ 16"oc
8"
(2) #4 CONT. IN CURB
SLAB PER PLAN
10"
4"
4"
4"
#4 x 30"Lg CURB DWLS @ 12"oc CTR'D ON CURB
8"
DWL PER SECTION 2/S201
GRADE BEAM REINF. PER SECTION 7/S201
2'-8"
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

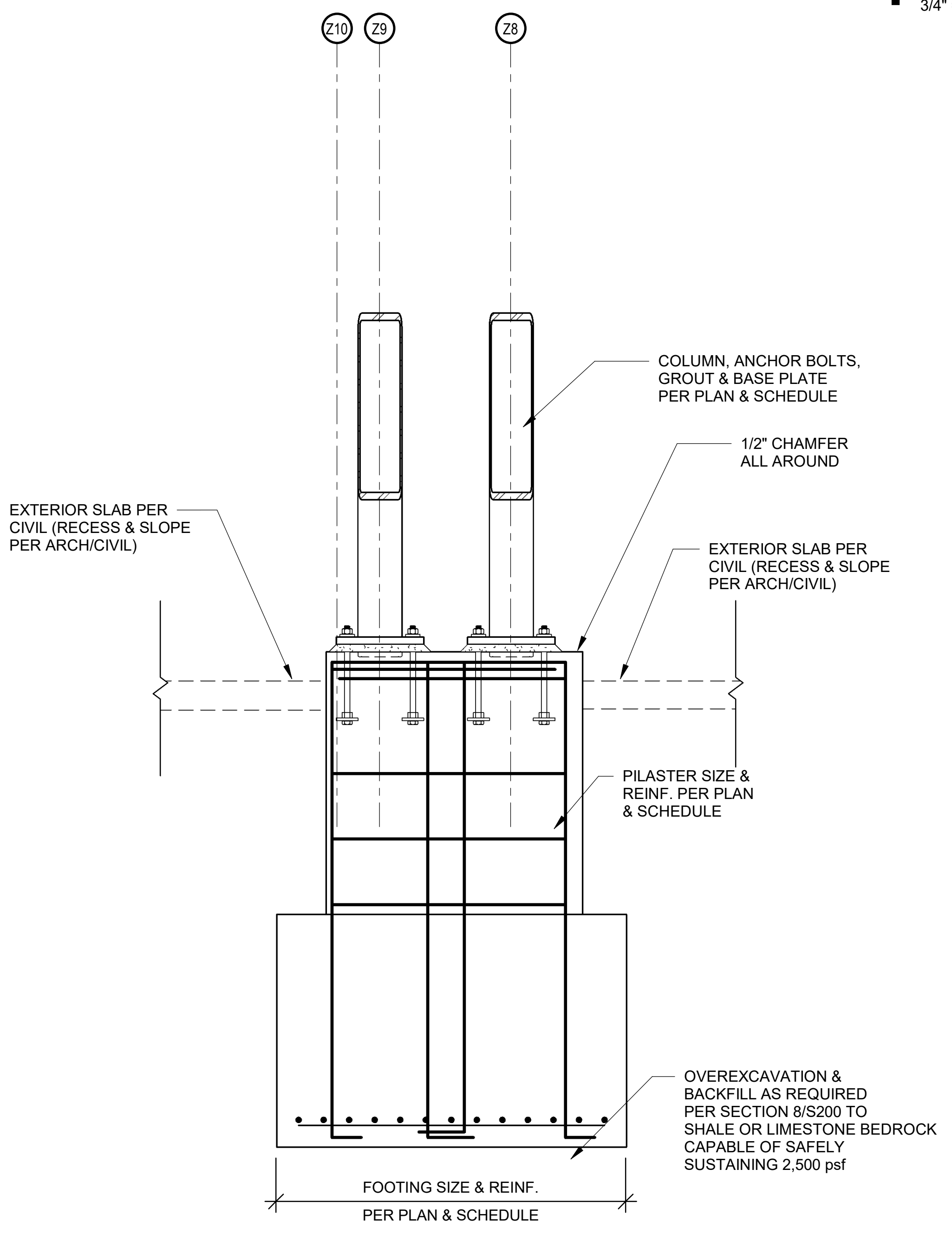
6 SECTION

3/4" = 1'-0"


ZD
CURTAIN WALL PER ARCH/SPECS
1/2" COMPRESSIBLE FILLER W/ SEALANT @ TOP
EXTERIOR SLAB PER CIVIL (RECESS & SLOPE PER ARCH/CIVIL)
#4 CONT.
SLAB PER PLAN/SCHEDULE
#4 x 5'-0" (30",30"H) DWLS @16"oc
4"
8"
#4 STIRRUPS @ 24"oc
(2) #5 CONT. MID-DEPTH
2'-8"
(3) #5 CONT. TOP & BOT.
1'-6"
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf

7 SECTION

3/4" = 1'-0"


Z10
Z9
Z8
COLUMN, ANCHOR BOLTS, GROUT & BASE PLATE PER PLAN & SCHEDULE
1/2" CHAMFER ALL AROUND
EXTERIOR SLAB PER CIVIL (RECESS & SLOPE PER ARCH/CIVIL)
EXTERIOR SLAB PER CIVIL (RECESS & SLOPE PER ARCH/CIVIL)
PILASTER SIZE & REINF. PER PLAN & SCHEDULE
OVEREXCAVATION & BACKFILL AS REQUIRED PER SECTION 8/S200 TO SHALE OR LIMESTONE BEDROCK CAPABLE OF SAFELY SUSTAINING 2,500 psf
FOOTING SIZE & REINF.
PER PLAN & SCHEDULE

8 SECTION

3/4" = 1'-0"

REBAR DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE

CONCRETE STRENGTH = 5000 psi					CONCRETE STRENGTH = 4000 psi					CONCRETE STRENGTH = 3500 psi				
CASE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP		CASE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP		CASE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS		BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	19	15	24	19	#3	19	15	24	19	#3	20	16	26	20
#4	25	19	33	25	#4	25	19	33	25	#4	27	21	35	27
#5	31	24	41	31	#5	31	24	41	31	#5	33	26	43	33
#6	37	29	49	37	#6	37	29	49	37	#6	40	31	52	40
#7	54	42	71	54	#7	54	42	71	54	#7	58	45	75	58
#8	62	48	81	62	#8	62	48	81	62	#8	66	51	86	66
#9	70	54	91	70	#9	70	54	91	70	#9	75	58	97	75
#10	79	61	102	79	#10	79	61	102	79	#10	84	65	109	84
#11	87	67	113	87	#11	87	67	113	87	#11	93	72	121	93

NOTES:
1. UNLESS SPECIFICALLY INDICATED OTHERWISE, USE THE MINIMUM LENGTH FOR A CLASS B LAP SPLICE OR THE MINIMUM DEVELOPMENT LENGTH INDICATED IN THE TABLES ABOVE MULTIPLIED BY THE APPLICABLE FACTOR(S) LISTED BELOW.
2. WHERE THE CLEAR SPACING BETWEEN BARS LAP SPLICED OR EMBEDDED AT ANY SECTION IS LESS THAN 2 BAR DIAMETERS, OR WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER. INCREASE THE INDICATED BAR SPLICE OR DEVELOPMENT LENGTH BY 50%.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR TENSION LAP SPLICED BARS PROVIDED THAT THEY MEET THE REQUIREMENTS OF ACI 318-11, 12.14.
5. AT LOCATIONS WHERE REINFORCING WITHIN A STRUCTURAL ELEMENT WILL BE SPLICED, ALTERNATING SPLICES SHALL BE STAGGERED A MINIMUM OF THE CLASS B SPLICE LENGTH UNLESS INDICATED OTHERWISE.

SAL
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NUMBER PE-2010026832
07/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit , MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

FOUNDATION SECTIONS

S201

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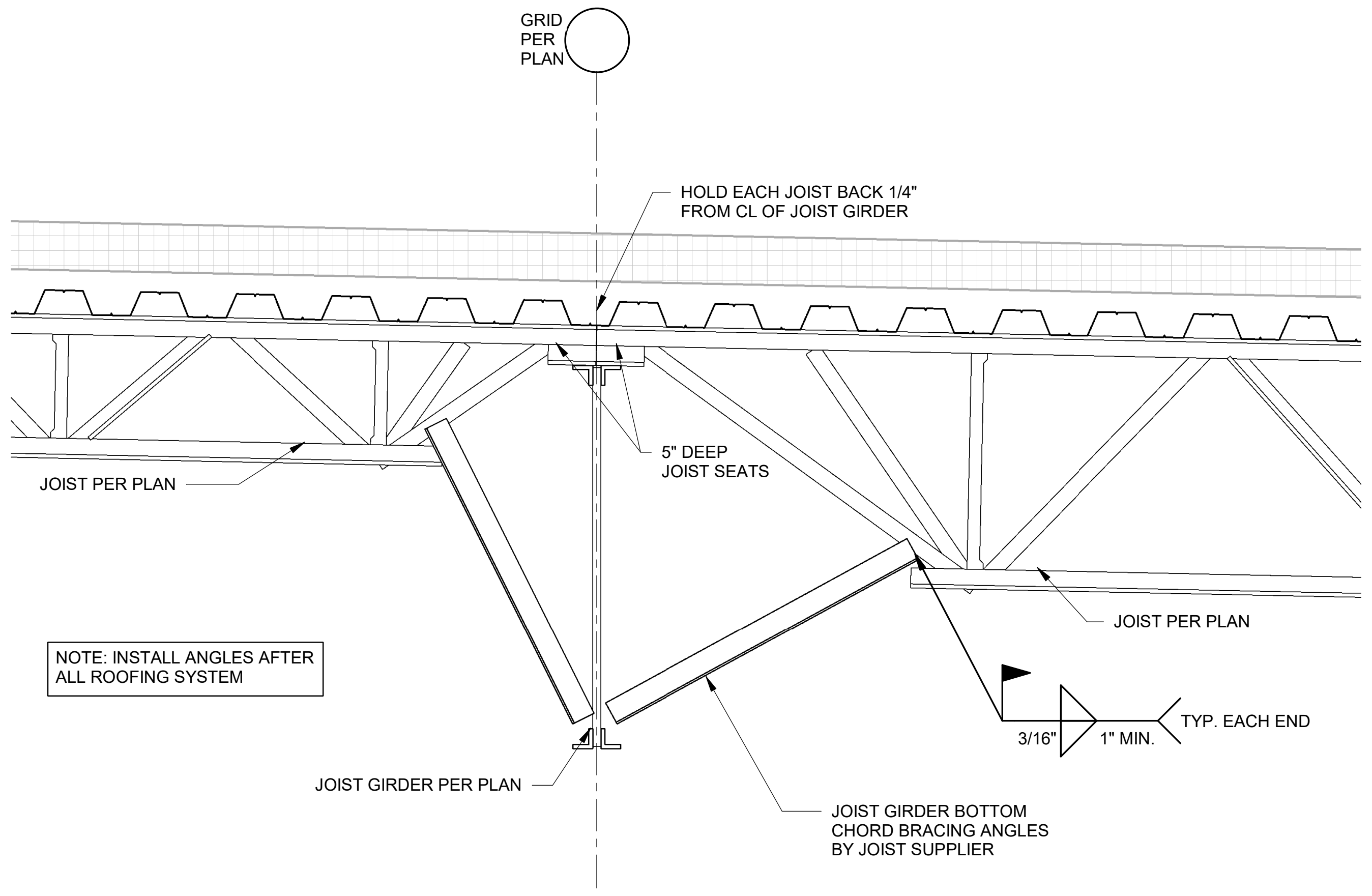
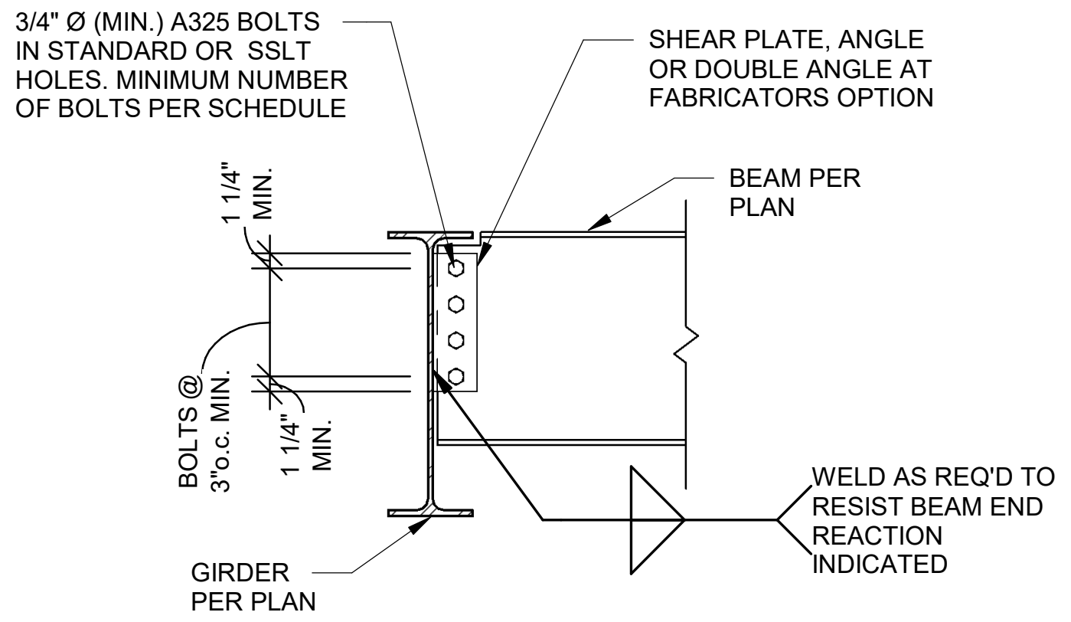
Lee's Summit, Missouri
09/20/2022

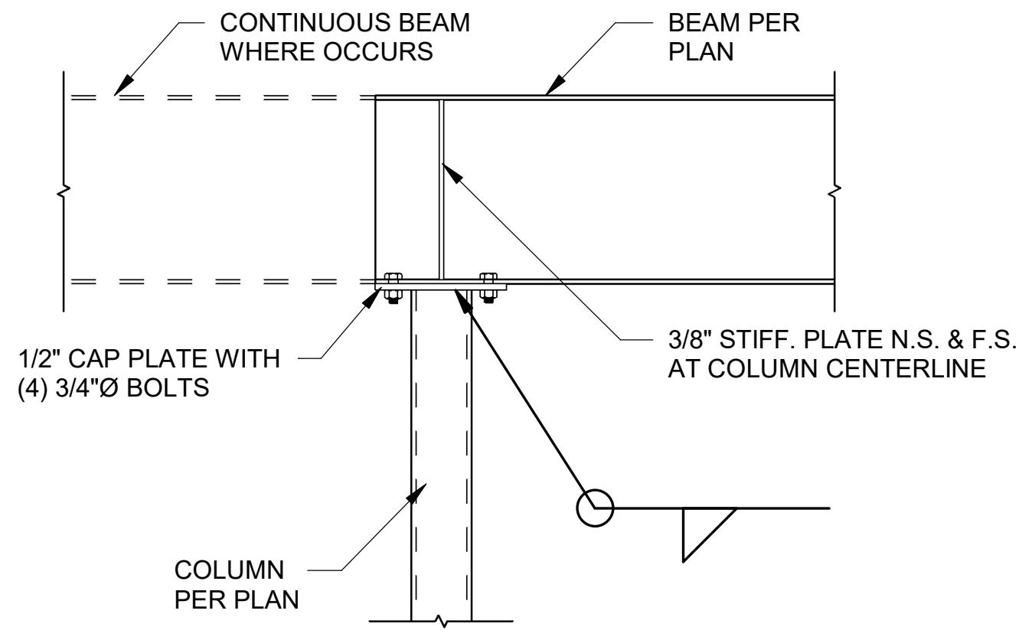

GRID
PER
PLAN
HOLD EACH JOIST BACK 1/4" FROM CL OF JOIST GIRDER
5" DEEP JOIST SEATS
JOIST PER PLAN
NOTE: INSTALL ANGLES AFTER ALL ROOFING SYSTEM
JOIST PER PLAN
3/16"
1" MIN.
TYP. EACH END
JOIST GIRDER PER PLAN
JOIST GIRDER BOTTOM CHORD BRACING ANGLES BY JOIST SUPPLIER

1 SECTION
3/4" = 1'-0"


3/4" Ø (MIN.) A325 BOLTS IN STANDARD OR SSLT HOLES. MINIMUM NUMBER OF BOLTS PER SCHEDULE
SHEAR PLATE, ANGLE OR DOUBLE ANGLE AT FABRICATORS OPTION
BEAM PER PLAN
1 1/4" MIN.
BOLTS @ 3"o.c. MIN.
1 1/4" MIN.
WELD AS REQ'D TO RESIST BEAM END REACTION INDICATED
GIRDER PER PLAN

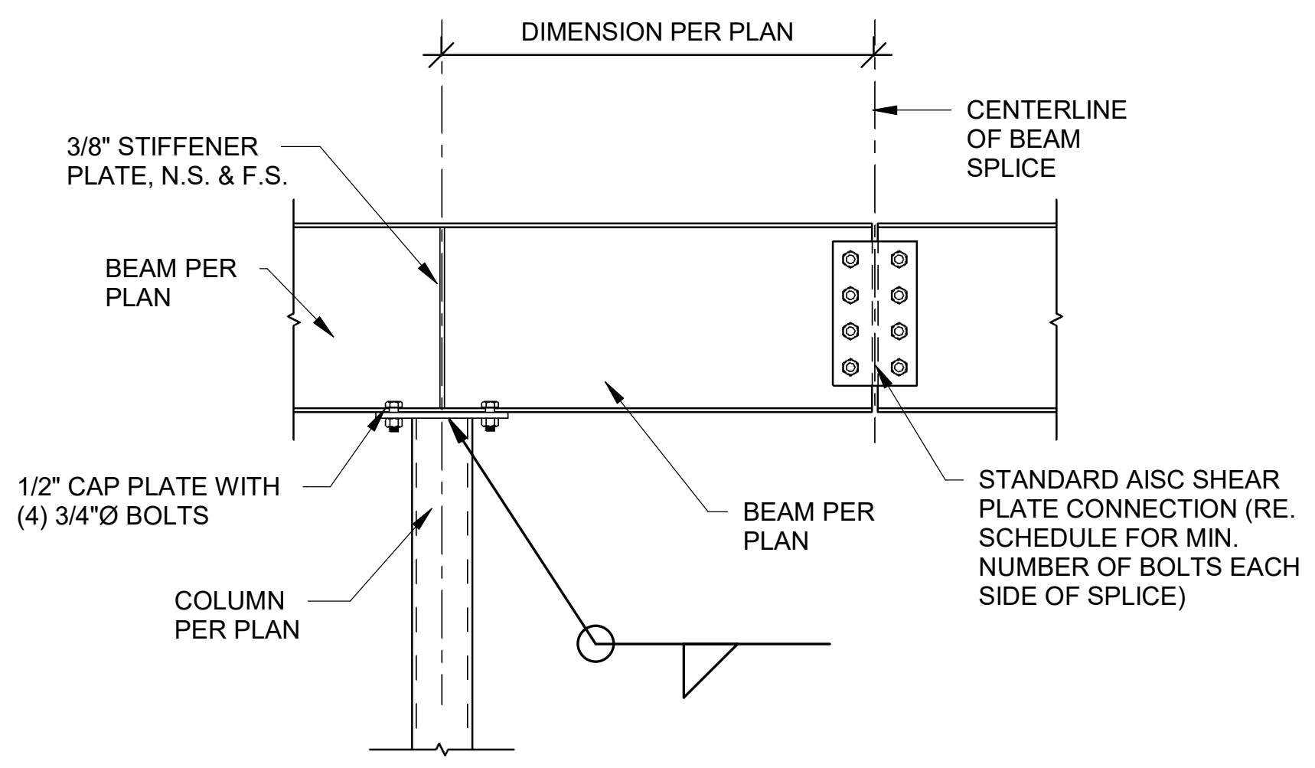
TYPICAL BEAM TO GIRDER CONNECTION

2 DETAIL
3/4" = 1'-0"


CONTINUOUS BEAM WHERE OCCURS
BEAM PER PLAN
1/2" CAP PLATE WITH (4) 3/4"Ø BOLTS
3/8" STIFF. PLATE N.S. & F.S. AT COLUMN CENTERLINE
COLUMN PER PLAN

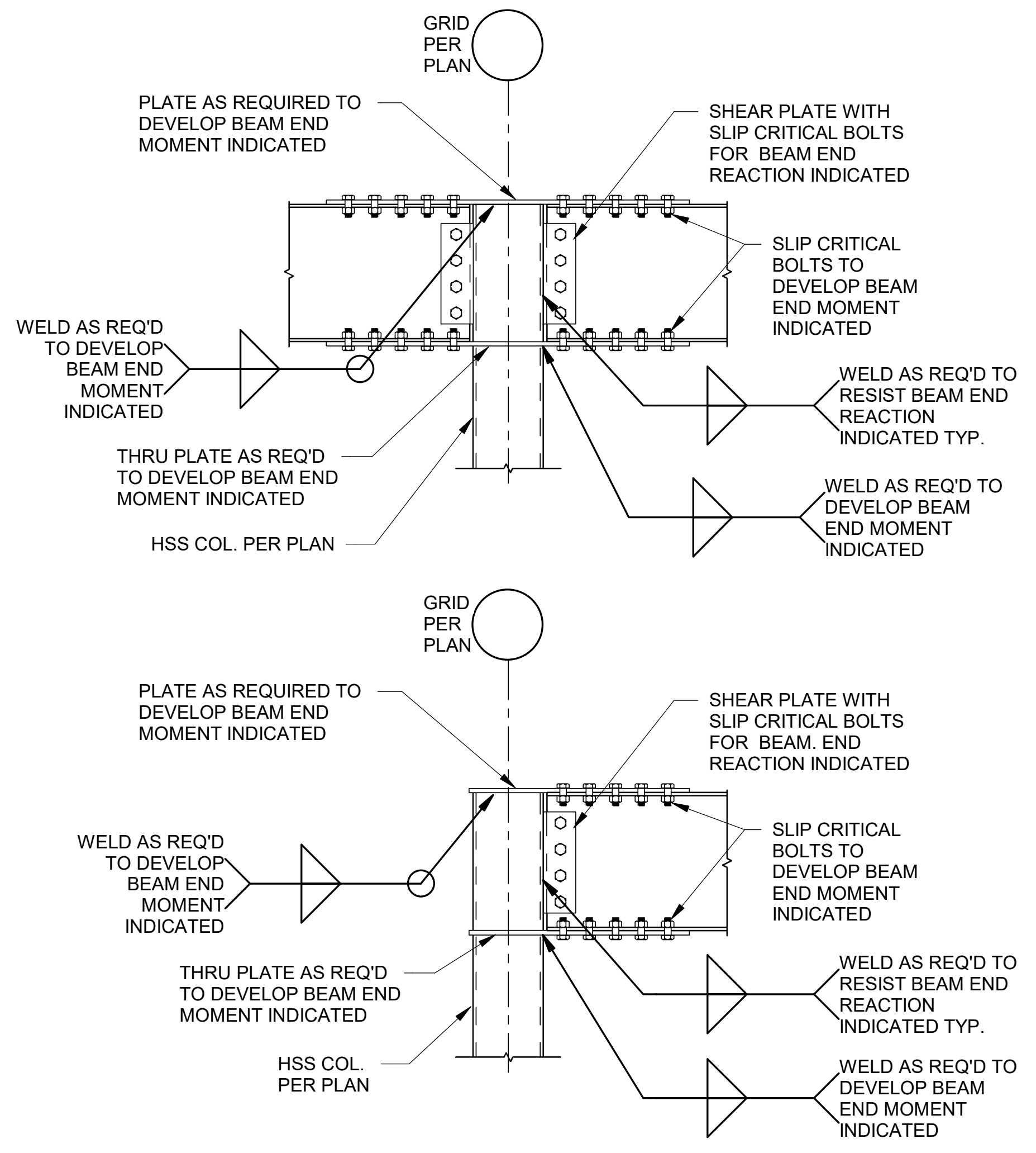
TYPICAL BEAM TO COLUMN CONNECTION

3 DETAIL
3/4" = 1'-0"


DIMENSION PER PLAN
CENTERLINE OF BEAM SPLICE
3/8" STIFFENER PLATE, N.S. & F.S.
BEAM PER PLAN
1/2" CAP PLATE WITH (4) 3/4"Ø BOLTS
COLUMN PER PLAN
BEAM PER PLAN
STANDARD AISC SHEAR PLATE CONNECTION (RE. SCHEDULE FOR MIN. NUMBER OF BOLTS EACH SIDE OF SPLICE)

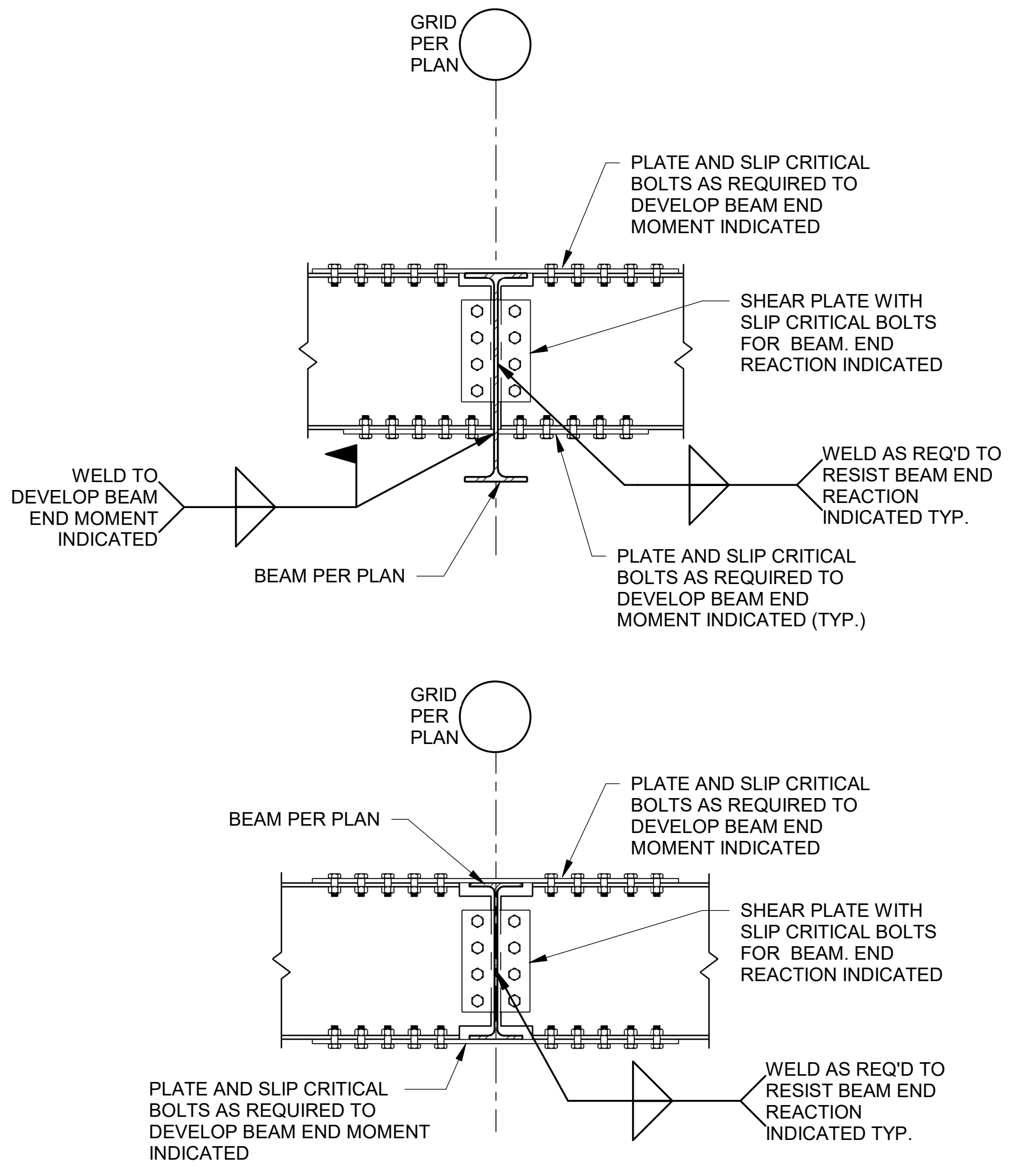
TYPICAL BEAM SPLICE

4 DETAIL
3/4" = 1'-0"


GRID
PER
PLAN
PLATE AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED
SHEAR PLATE WITH SLIP CRITICAL BOLTS FOR BEAM END REACTION INDICATED
SLIP CRITICAL BOLTS TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO RESIST BEAM END REACTION INDICATED TYP.
THRU PLATE AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED
HSS COL. PER PLAN
GRID
PER
PLAN
PLATE AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED
SHEAR PLATE WITH SLIP CRITICAL BOLTS FOR BEAM. END REACTION INDICATED
SLIP CRITICAL BOLTS TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO RESIST BEAM END REACTION INDICATED TYP.
THRU PLATE AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED
HSS COL. PER PLAN
WELD AS REQ'D TO DEVELOP BEAM END MOMENT INDICATED

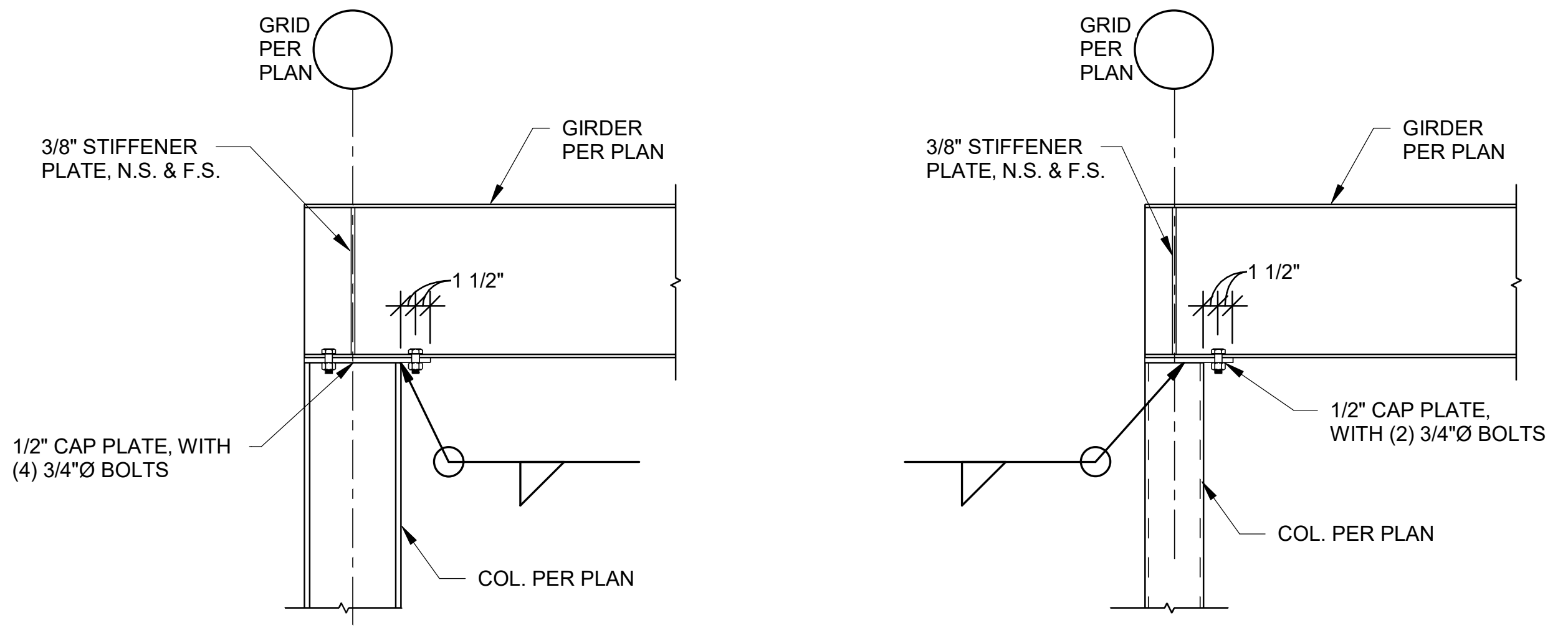
TYPICAL BEAM TO HSS COLUMN MOMENT CONNECTIONS

6 SECTION
3/4" = 1'-0"


GRID
PER
PLAN
PLATE AND SLIP CRITICAL BOLTS AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED
SHEAR PLATE WITH SLIP CRITICAL BOLTS FOR BEAM. END REACTION INDICATED
WELD TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO RESIST BEAM END REACTION INDICATED TYP.
BEAM PER PLAN
PLATE AND SLIP CRITICAL BOLTS AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED (TYP.)
GRID
PER
PLAN
BEAM PER PLAN
PLATE AND SLIP CRITICAL BOLTS AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED
SHEAR PLATE WITH SLIP CRITICAL BOLTS FOR BEAM. END REACTION INDICATED
PLATE AND SLIP CRITICAL BOLTS AS REQUIRED TO DEVELOP BEAM END MOMENT INDICATED
WELD AS REQ'D TO RESIST BEAM END REACTION INDICATED TYP.

TYP. BEAM TO BEAM MOMENT CONNECTIONS

7 SECTION
3/4" = 1'-0"

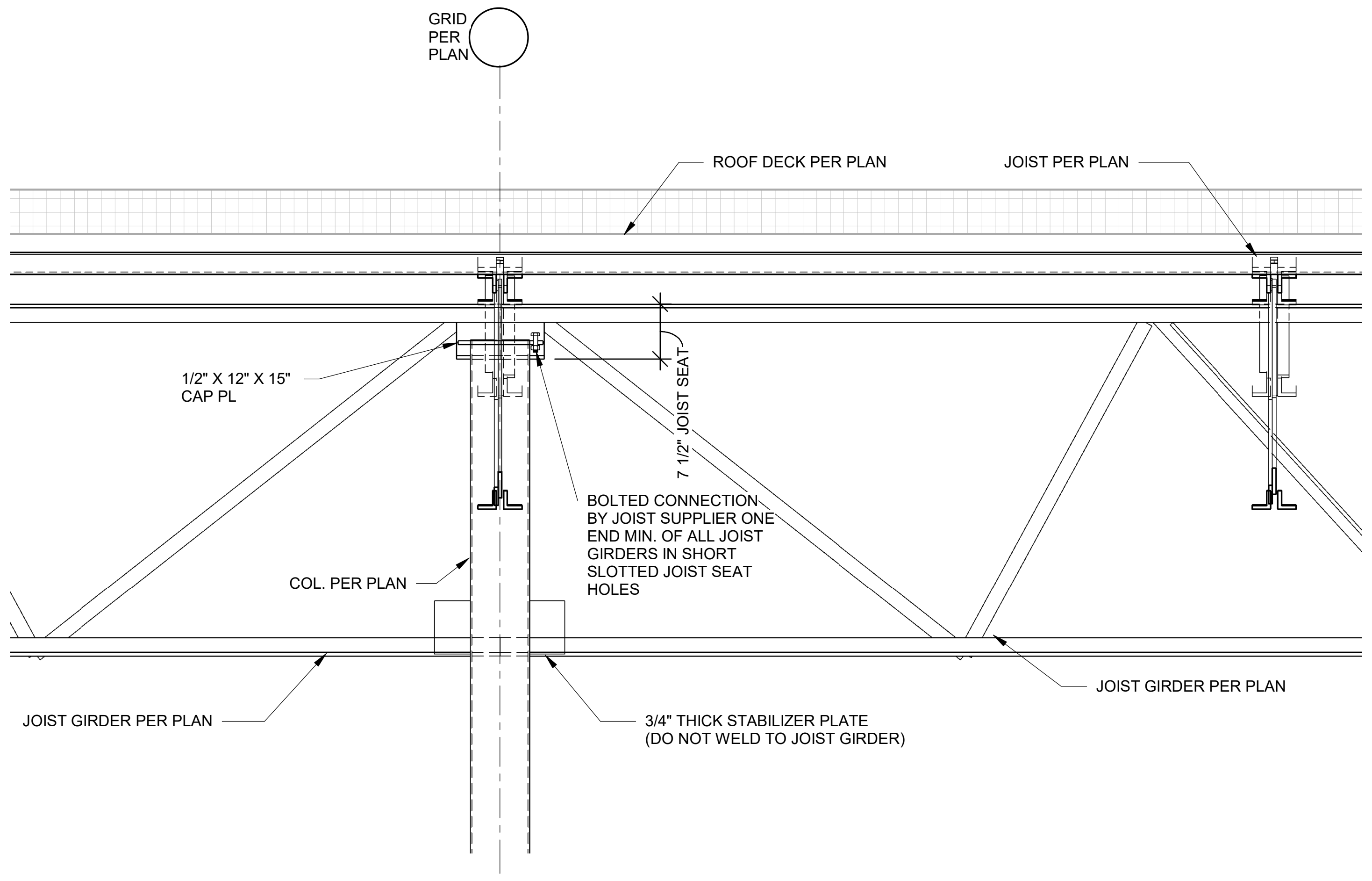

GRID
PER
PLAN
3/8" STIFFENER PLATE, N.S. & F.S.
GIRDER PER PLAN
1 1/2"
1/2" CAP PL, WITH (4) 3/4"Ø BOLTS
COL. PER PLAN
GRID
PER
PLAN
3/8" STIFFENER PLATE, N.S. & F.S.
GIRDER PER PLAN
1 1/2"
1/2" CAP PLATE, WITH (2) 3/4"Ø BOLTS
COL. PER PLAN

@ WIDE FLANGE COLUMN

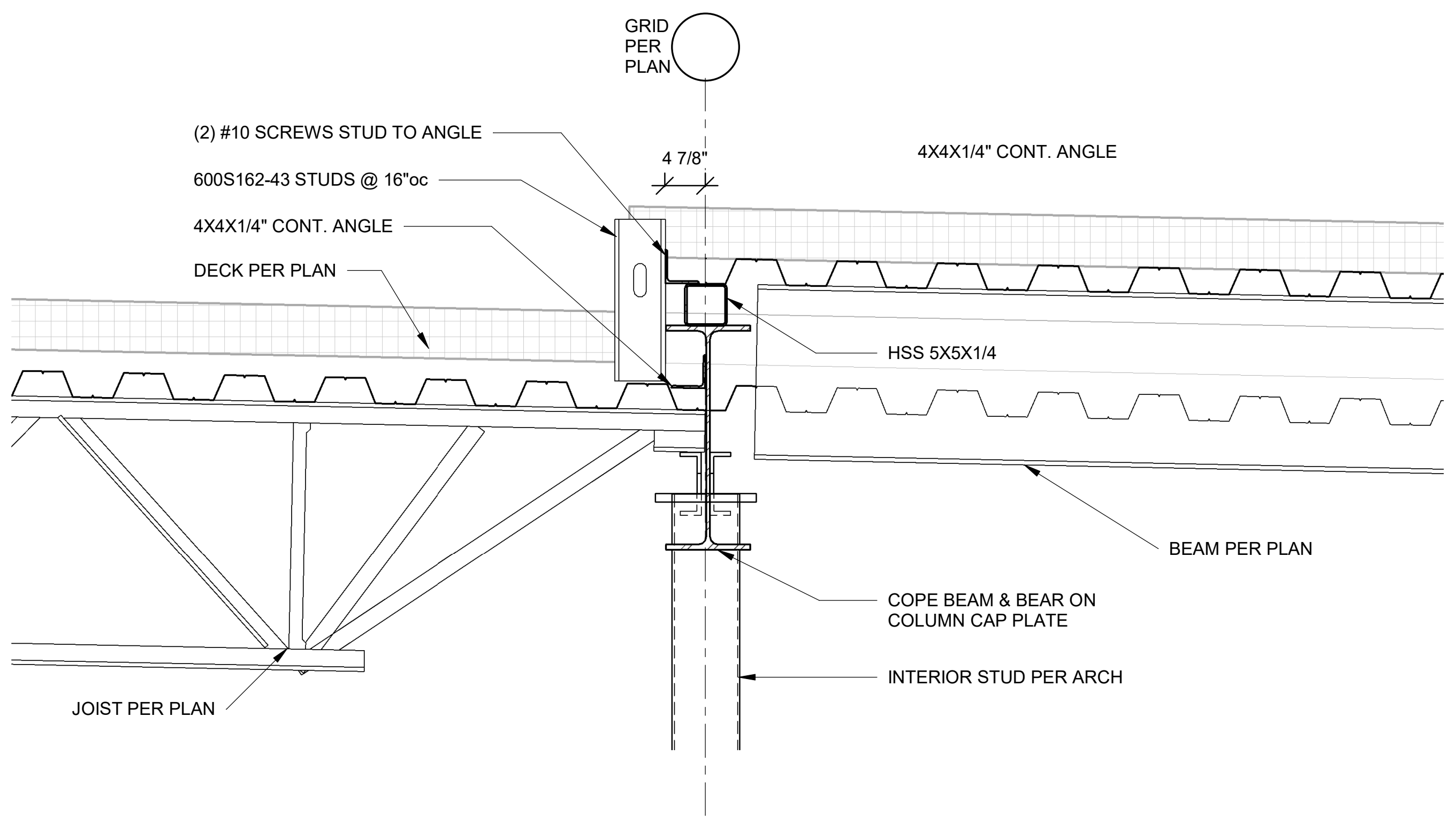
@ HSS COLUMN

TYPICAL ROOF BEAM TO COLUMN CONNECTION AT EXTERIOR WALL

5 SECTION
3/4" = 1'-0"


GRID
PER
PLAN
ROOF DECK PER PLAN
JOIST PER PLAN
1/2" X 12" X 15" CAP PL
7 1/2" JOIST SEAT
BOLTED CONNECTION BY JOIST SUPPLIER ONE END MIN. OF ALL JOIST GIRDERS IN SHORT SLOTTED JOIST SEAT HOLES
COL. PER PLAN
JOIST GIRDER PER PLAN
JOIST GIRDER PER PLAN
3/4" THICK STABILIZER PLATE (DO NOT WELD TO JOIST GIRDER)

8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"

BEAM SHEAR CONNECTION SCHEDULE

BEAM SIZE	MINIMUM ROWS OF BOLTS	END REACTION (kips)(U.N.O.)
W8,C8	2	--
W10,C10	2	--
W12,C12	2	--
W14	3	--
W16, C15	3	--
W18	4	--
W21	5	--
W24	5	--
W27	6	--
W30	7	--
W33	8	--
W36	8	--

STEEL CONNECTION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
3. FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
4. SUGGESTED CONNECTION DETAILS ARE SHOWN. FINAL CONNECTION CONFIGURATION AND DESIGN SHALL BE COMPLETED BY THE CONNECTION ENGINEER. CONNECTION DESIGN SHALL INCLUDE COLUMN OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.
5. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THESE SHOWN HEREIN TO MEET END REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).
6. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
7. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
8. ALL BOLTS SHALL BE SPACED AT 3"o.c. MINIMUM.
9. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
10. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
11. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.
12. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
13. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMODATE COMBINED FORCES.
14. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
15. REFER TO ELEVATIONS ON SHEET S___ FOR BRACE FORCES. REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION SCHEDULE.
16. COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE OF WALL OR FINISH.
17. ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

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PE-2010026832
07/19/22

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Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

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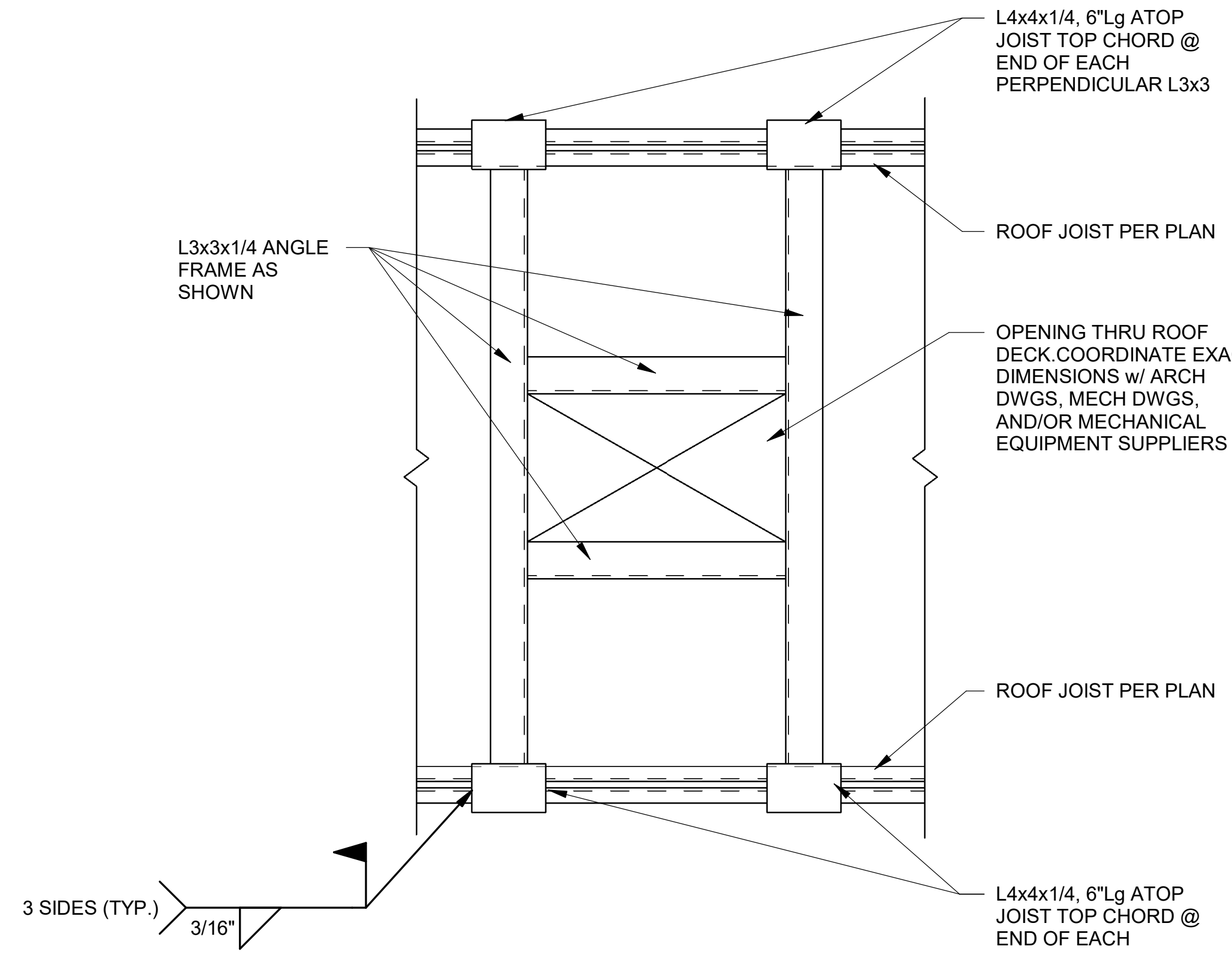
CONSTRUCTION DOCUMENTS

July 19, 2022

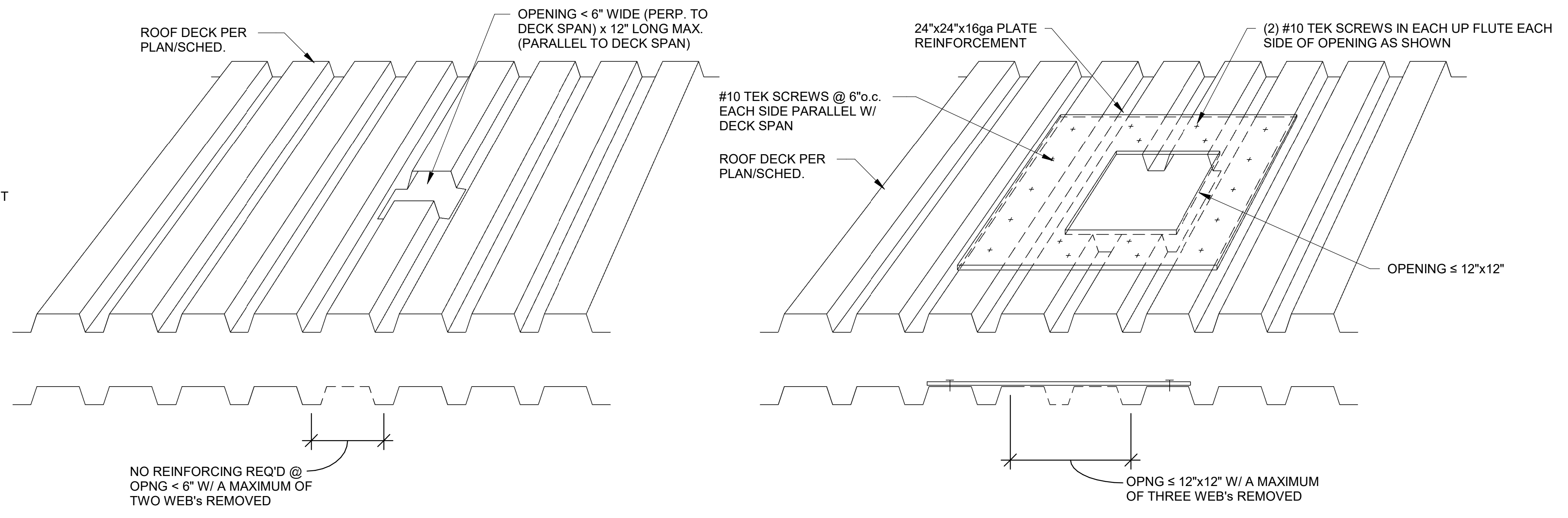
FRAMING SECTIONS

S300


L4x4x1/4, 6"Lg ATOP JOIST TOP CHORD @ END OF EACH PERPENDICULAR L3x3
L3x3x1/4 ANGLE FRAME AS SHOWN
ROOF JOIST PER PLAN
OPENING THRU ROOF DECK.COORDINATE EXACT DIMENSIONS w/ ARCH DWGS, MECH DWGS, AND/OR MECHANICAL EQUIPMENT SUPPLIERS
ROOF JOIST PER PLAN
3 SIDES (TYP.)
3/16"
L4x4x1/4, 6"Lg ATOP JOIST TOP CHORD @ END OF EACH PERPENDICULAR L3x3

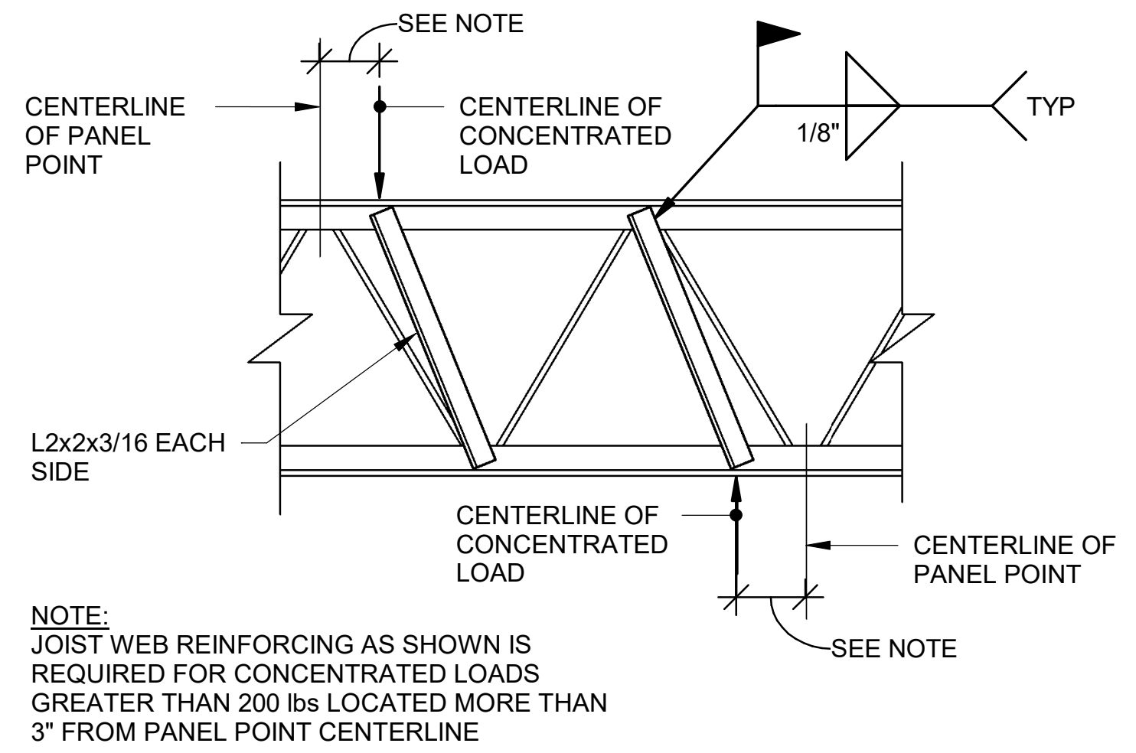
TYPICAL ANGLE FRAME AT OPENINGS > 12" WIDE IN ROOF DECK

1 DETAIL
1" = 1'-0"


ROOF DECK PER PLAN/SCHED.
OPENING < 6" WIDE (PERP. TO DECK SPAN) x 12" LONG MAX. (PARALLEL TO DECK SPAN)
NO REINFORCING REQ'D @ OPNG < 6" W/ A MAXIMUM OF TWO WEB's REMOVED
24"x24"x16ga PLATE REINFORCEMENT
(2) #10 TEK SCREWS IN EACH UP FLUTE EACH SIDE OF OPENING AS SHOWN
#10 TEK SCREWS @ 6"o.c. EACH SIDE PARALLEL W/ DECK SPAN
ROOF DECK PER PLAN/SCHED.
OPENING ≤ 12"x12"
OPNG ≤ 12"x12" W/ A MAXIMUM OF THREE WEB's REMOVED

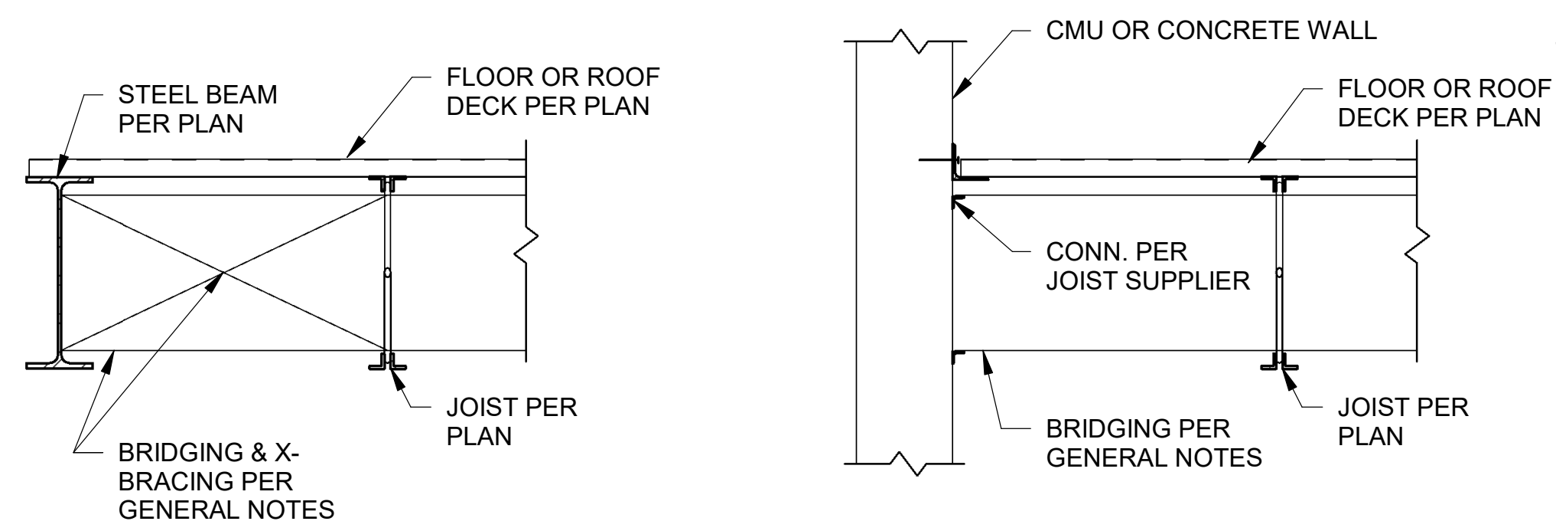
TYPICAL DECK REINFORCING AT SMALL OPENINGS IN ROOF DECK

1A DETAIL
1 1/2" = 1'-0"


SEE NOTE
CENTERLINE OF PANEL POINT
CENTERLINE OF CONCENTRATED LOAD
1/8"
TYP
L2x2x3/16 EACH SIDE
CENTERLINE OF CONCENTRATED LOAD
CENTERLINE OF PANEL POINT
SEE NOTE
NOTE:
JOIST WEB REINFORCING AS SHOWN IS REQUIRED FOR CONCENTRATED LOADS GREATER THAN 200 lbs LOCATED MORE THAN 3" FROM PANEL POINT CENTERLINE

TYPICAL JOIST REINFORCING DETAIL

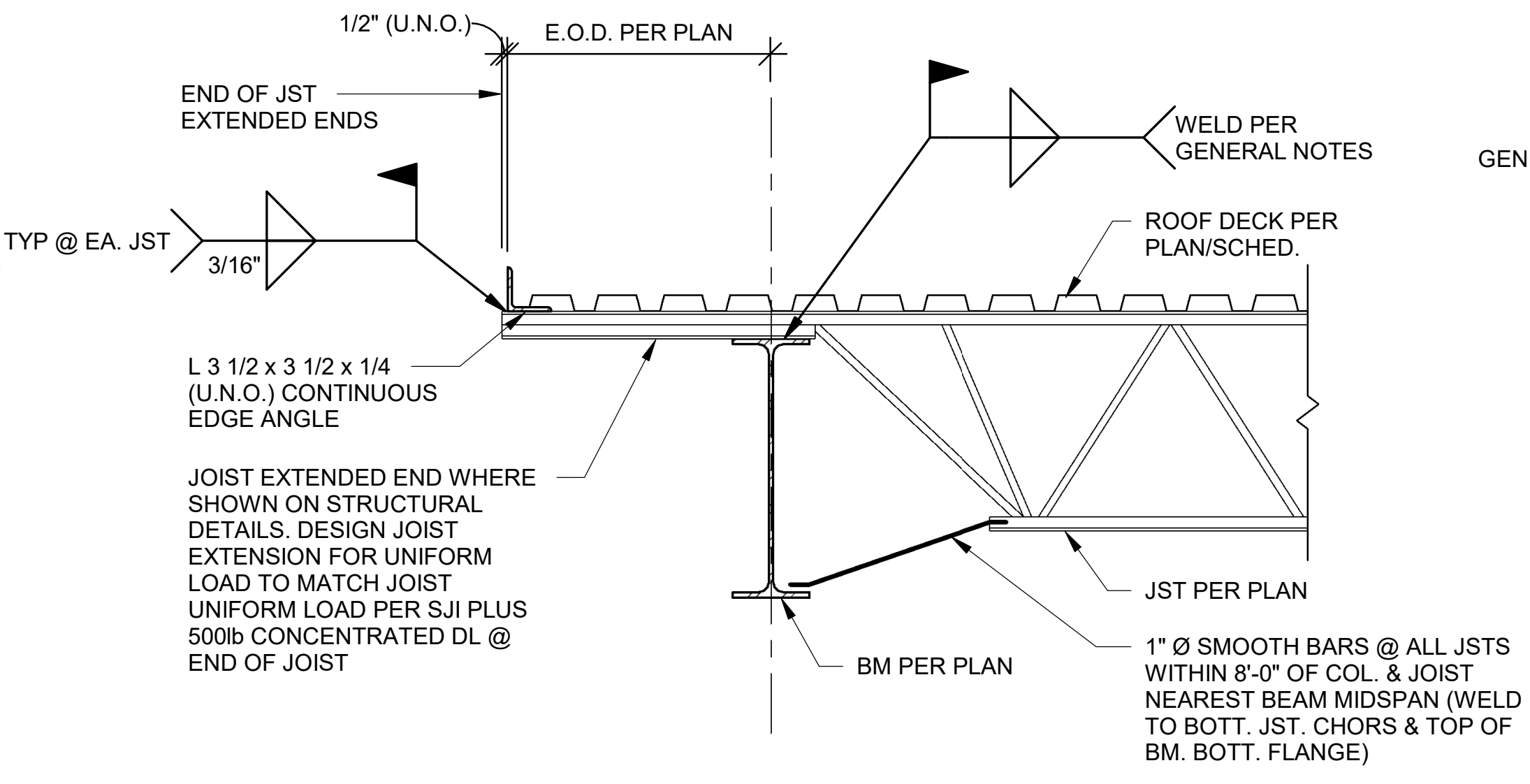
2 SECTION
3/4" = 1'-0"


STEEL BEAM PER PLAN
FLOOR OR ROOF DECK PER PLAN
JOIST PER PLAN
BRIDGING & X-BRACING PER GENERAL NOTES
CMU OR CONCRETE WALL
FLOOR OR ROOF DECK PER PLAN
CONN. PER JOIST SUPPLIER
BRIDGING PER GENERAL NOTES
JOIST PER PLAN

DISCONTINUOUS END AT STEEL BEAM

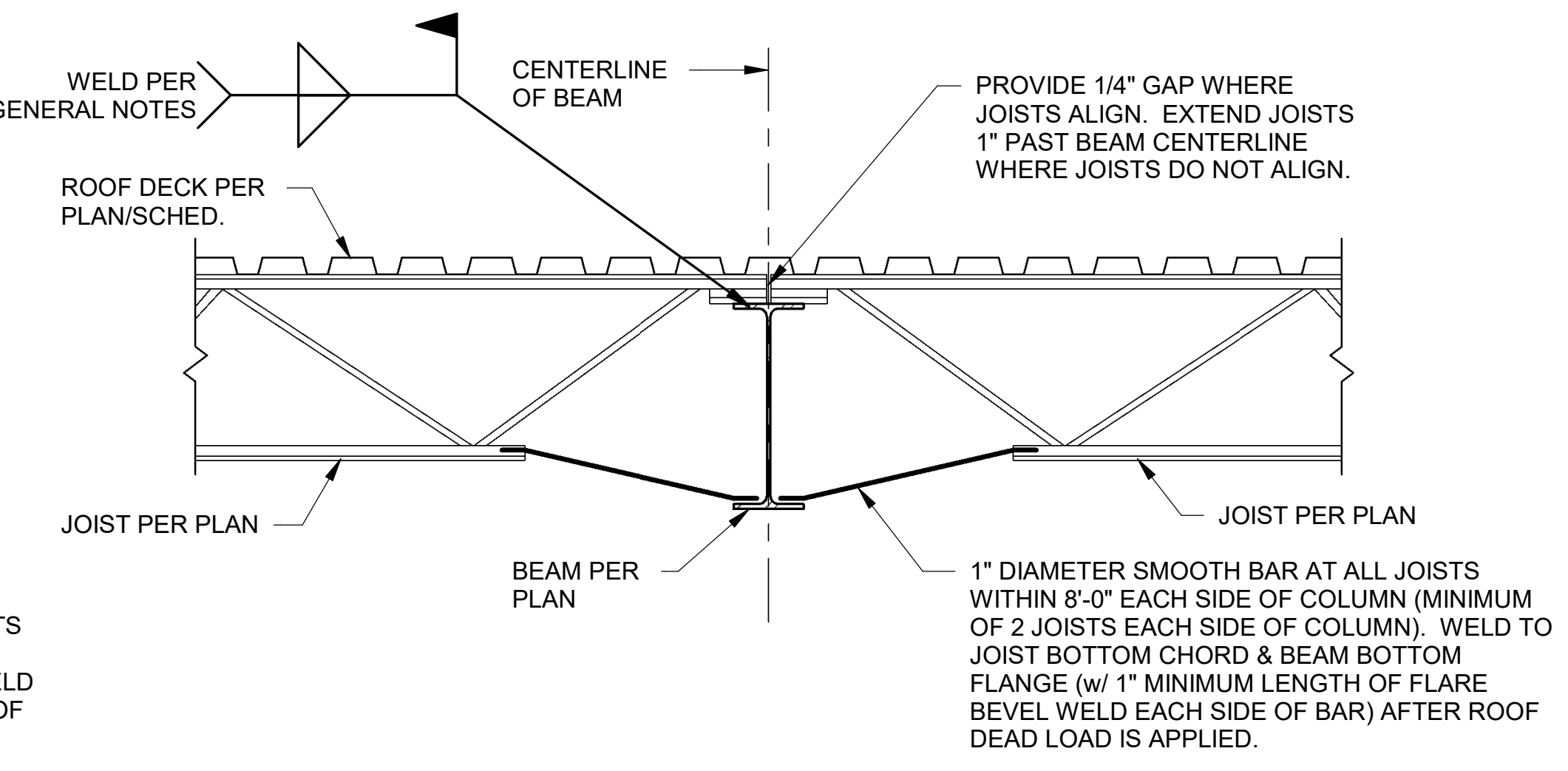
DISCONTINUOUS END AT CMU/CONCRETE WALL

3 JOIST BRIDGING DETAIL
3/4" = 1'-0"


1/2" (U.N.O.)
E.O.D. PER PLAN
END OF JST EXTENDED ENDS
WELD PER GENERAL NOTES
TYP @ EA. JST
3/16"
ROOF DECK PER PLAN/SCHED.
L 3 1/2 x 3 1/2 x 1/4 (U.N.O.) CONTINUOUS EDGE ANGLE
JOIST EXTENDED END WHERE SHOWN ON STRUCTURAL DETAILS. DESIGN JOIST EXTENSION FOR UNIFORM LOAD TO MATCH JOIST UNIFORM LOAD PER SJI PLUS 500lb CONCENTRATED DL @ END OF JOIST
JST PER PLAN
BM PER PLAN
1" Ø SMOOTH BARS @ ALL JSTS WITHIN 8'-0" OF COL. & JOIST NEAREST BEAM MIDSPAN (WELD TO BOTT. JST. CHORS & TOP OF BM. BOTT. FLANGE)

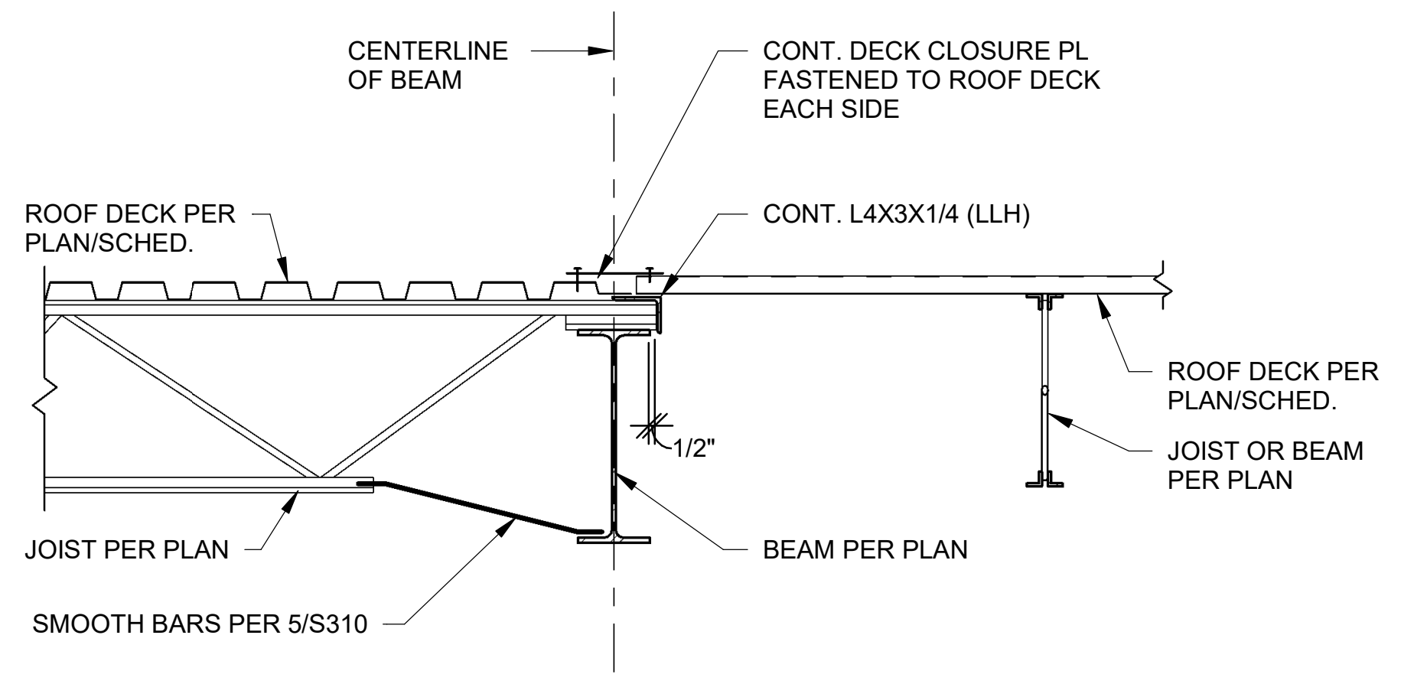
TYPICAL JOIST BEARING AT EXTERIOR BEAM

4 SECTION
3/4" = 1'-0"


WELD PER GENERAL NOTES
CENTERLINE OF BEAM
PROVIDE 1/4" GAP WHERE JOISTS ALIGN. EXTEND JOISTS 1" PAST BEAM CENTERLINE WHERE JOISTS DO NOT ALIGN.
ROOF DECK PER PLAN/SCHED.
JOIST PER PLAN
BEAM PER PLAN
JOIST PER PLAN
1" DIAMETER SMOOTH BAR AT ALL JOISTS WITHIN 8'-0" EACH SIDE OF COLUMN (MINIMUM OF 2 JOISTS EACH SIDE OF COLUMN). WELD TO JOIST BOTTOM CHORD & BEAM BOTTOM FLANGE (w/ 1" MINIMUM LENGTH OF FLARE BEVEL WELD EACH SIDE OF BAR) AFTER ROOF DEAD LOAD IS APPLIED.

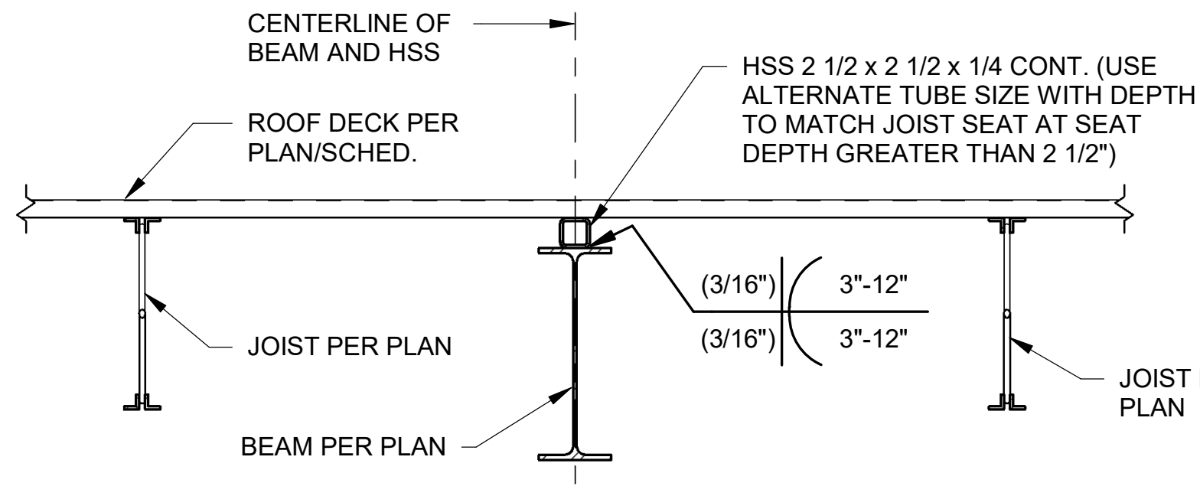
TYPICAL JOIST BEARING AT INTERIOR BEAM

5 SECTION
3/4" = 1'-0"



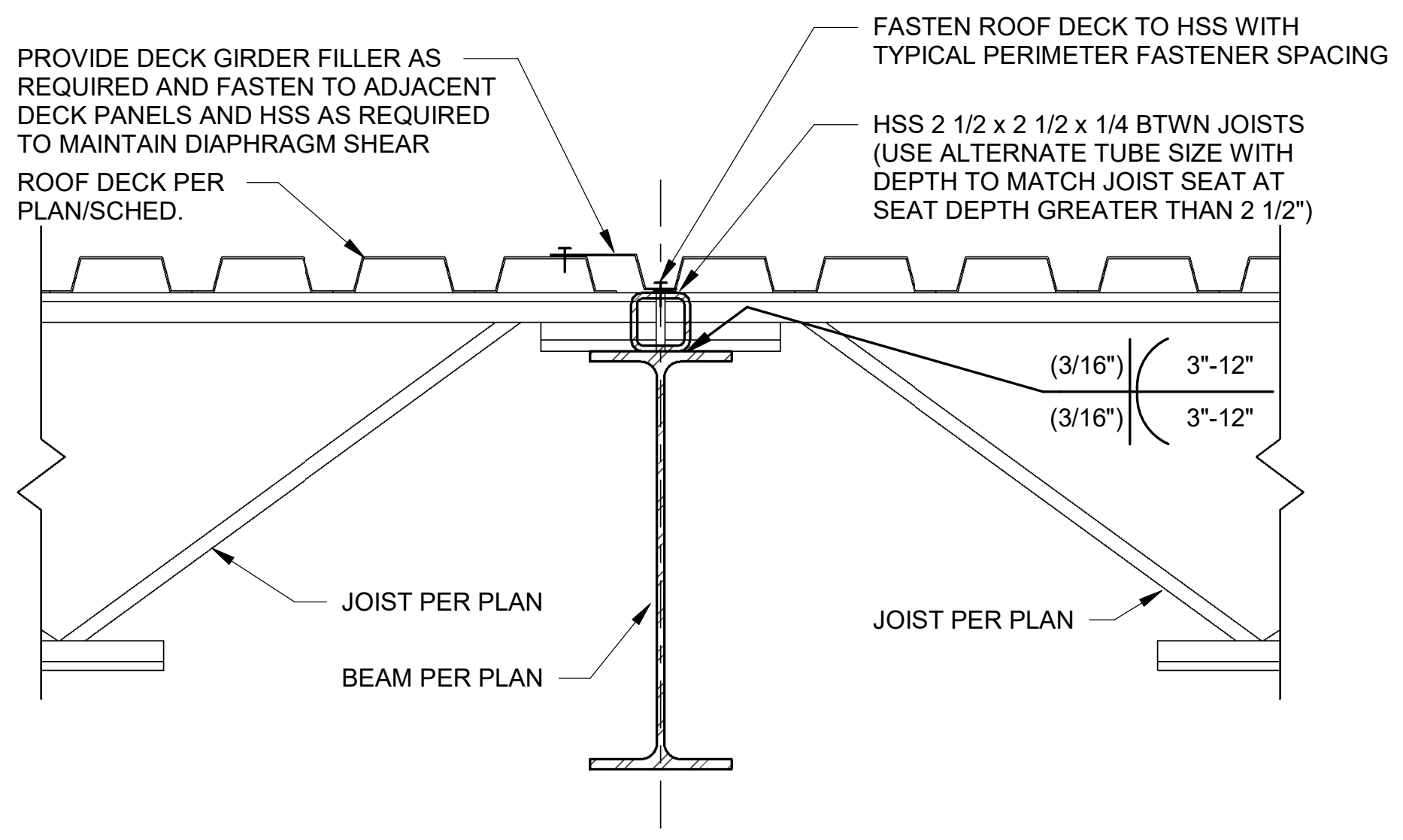
TYPICAL INTERIOR ROOF BEAM AT JOIST ORIENTATION TRANSITION

6 SECTION
3/4" = 1'-0"


CENTERLINE OF BEAM AND HSS
HSS 2 1/2 x 2 1/2 x 1/4 CONT. (USE ALTERNATE TUBE SIZE WITH DEPTH TO MATCH JOIST SEAT AT SEAT DEPTH GREATER THAN 2 1/2")
ROOF DECK PER PLAN/SCHED.
(3/16") 3"-12"
(3/16") 3"-12"
JOIST PER PLAN
JOIST PER PLAN
BEAM PER PLAN

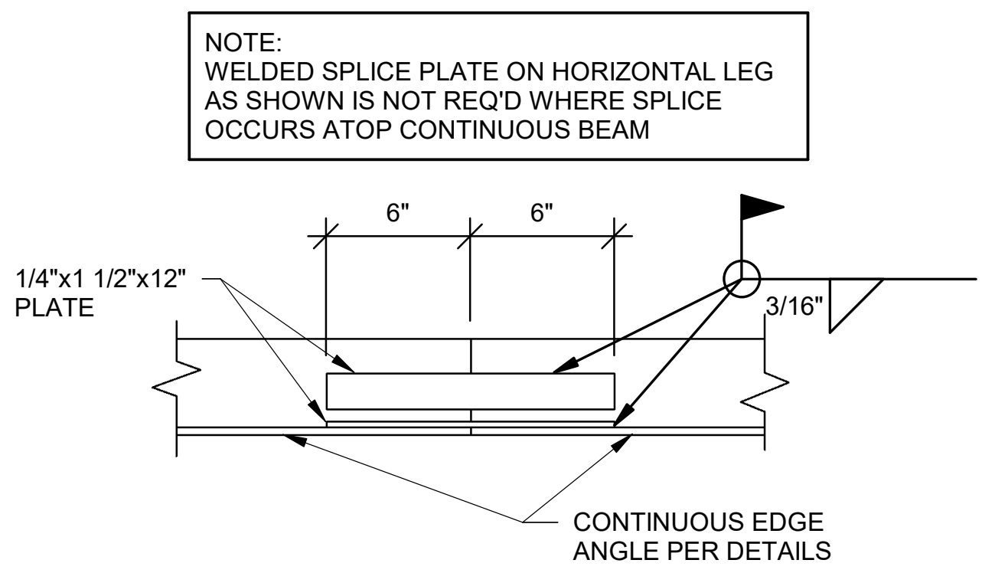
TYPICAL INTERIOR ROOF BEAM PARALLEL TO JOISTS

7 SECTION
3/4" = 1'-0"


PROVIDE DECK GIRDER FILLER AS REQUIRED AND FASTEN TO ADJACENT DECK PANELS AND HSS AS REQUIRED TO MAINTAIN DIAPHRAGM SHEAR
ROOF DECK PER PLAN/SCHED.
FASTEN ROOF DECK TO HSS WITH TYPICAL PERIMETER FASTENER SPACING
HSS 2 1/2 x 2 1/2 x 1/4 BTWN JOISTS (USE ALTERNATE TUBE SIZE WITH DEPTH TO MATCH JOIST SEAT AT SEAT DEPTH GREATER THAN 2 1/2")
(3/16") 3"-12"
(3/16") 3"-12"
JOIST PER PLAN
BEAM PER PLAN
JOIST PER PLAN

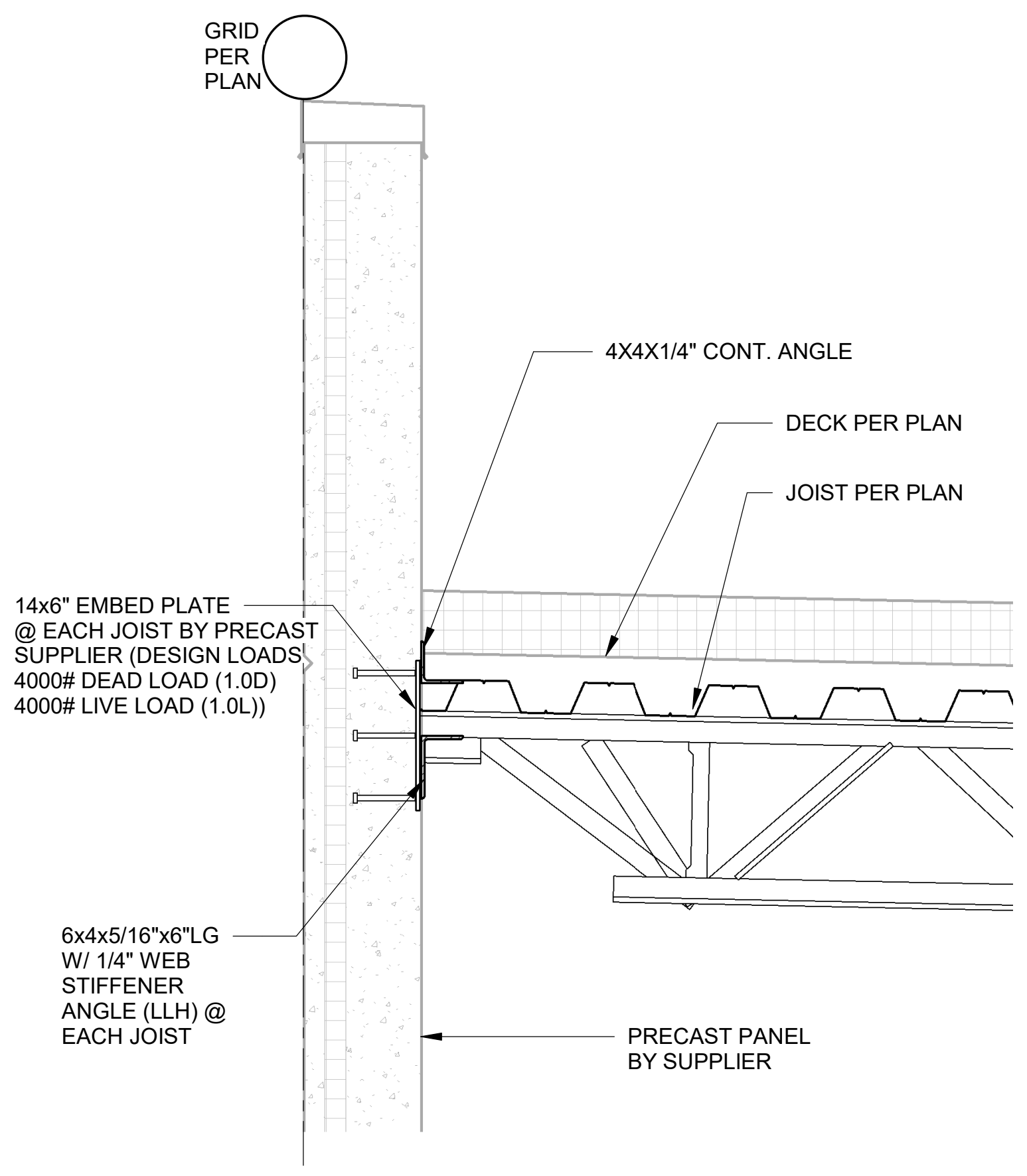
TYPICAL COLLECTOR ELEMENT ATOP BEAMS ALIGNED WITH BRACED FRAMES OR MOMENT FRAMES

8 SECTION
1 1/2" = 1'-0"

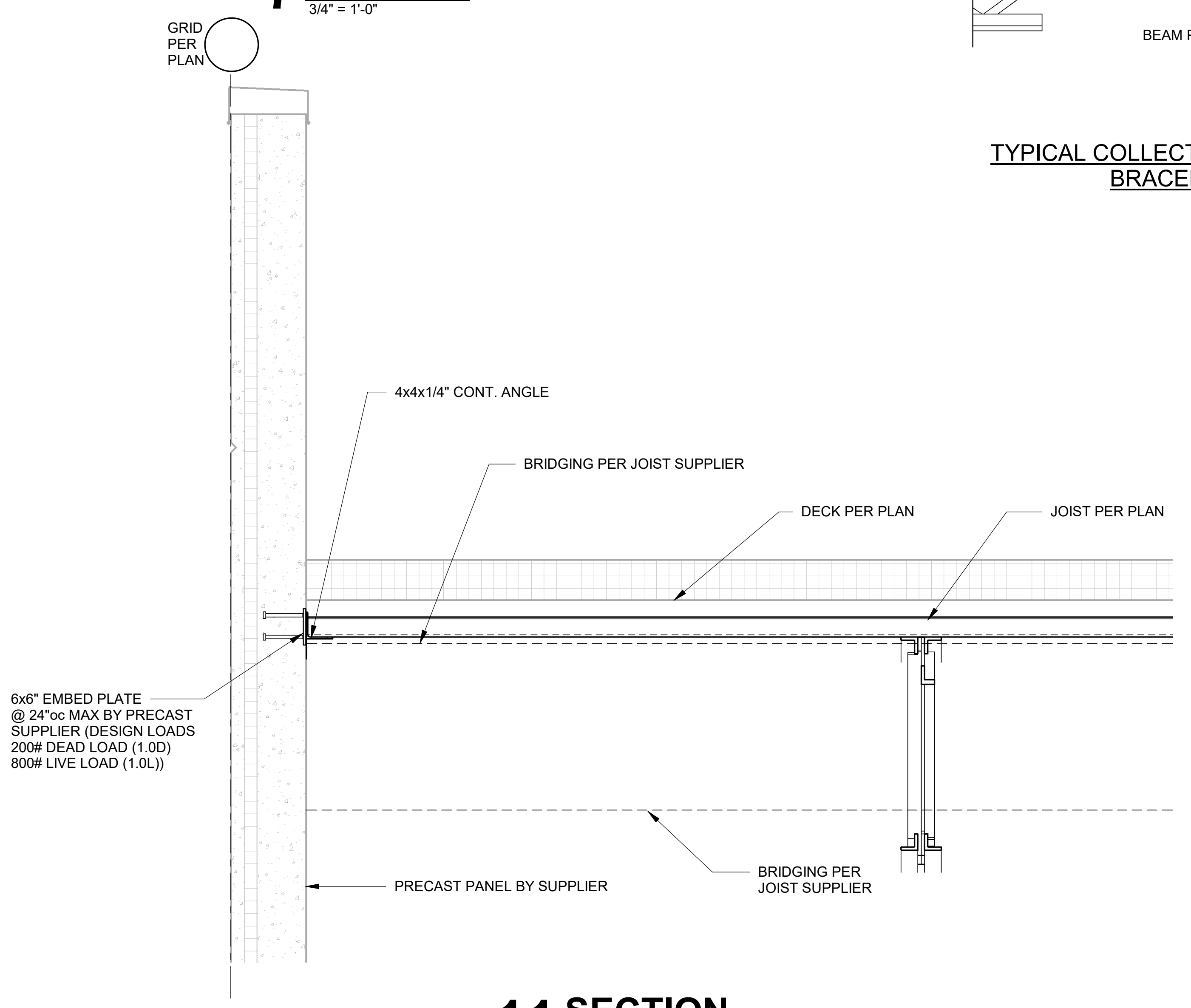

NOTE:
WELDED SPLICE PLATE ON HORIZONTAL LEG AS SHOWN IS NOT REQ'D WHERE SPLICE OCCURS ATOP CONTINUOUS BEAM
6"
6"
1/4"x1 1/2"x12" PLATE
3/16"
CONTINUOUS EDGE ANGLE PER DETAILS

TYPICAL ROOF DECK ANGLE SPLICE

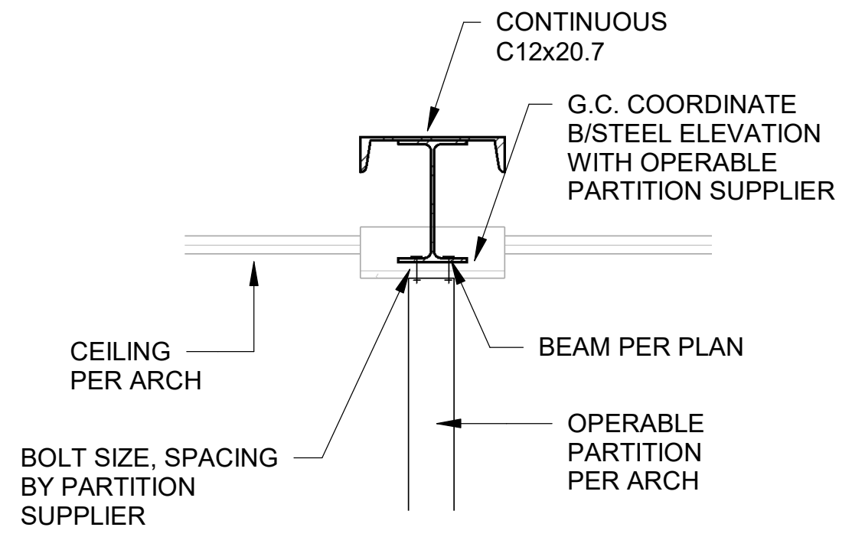
9 SECTION
1 1/2" = 1'-0"


GRID PER PLAN
4X4X1/4" CONT. ANGLE
DECK PER PLAN
JOIST PER PLAN
14x6" EMBED PLATE @ EACH JOIST BY PRECAST SUPPLIER (DESIGN LOADS 4000# DEAD LOAD (1.0D) 4000# LIVE LOAD (1.0L))
6x4x5/16"x6"LG W/ 1/4" WEB STIFFENER ANGLE (LLH) @ EACH JOIST
PRECAST PANEL BY SUPPLIER

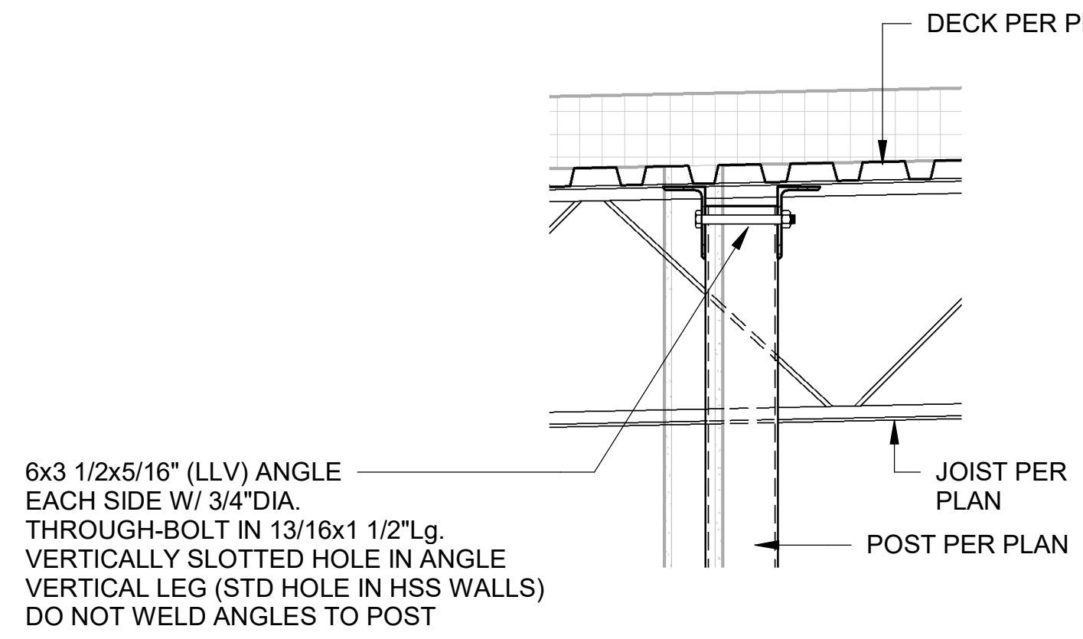
10 SECTION
3/4" = 1'-0"


GRID PER PLAN
4x4x1/4" CONT. ANGLE
BRIDGING PER JOIST SUPPLIER
DECK PER PLAN
JOIST PER PLAN
6x6" EMBED PLATE @ 24"oc MAX BY PRECAST SUPPLIER (DESIGN LOADS 200# DEAD LOAD (1.0D) 800# LIVE LOAD (1.0L))
PRECAST PANEL BY SUPPLIER
BRIDGING PER JOIST SUPPLIER

11 SECTION
3/4" = 1'-0"


CONTINUOUS C12x20.7
G.C. COORDINATE B/STEEL ELEVATION WITH OPERABLE PARTITION SUPPLIER
CEILING PER ARCH
BEAM PER PLAN
BOLT SIZE, SPACING BY PARTITION SUPPLIER
OPERABLE PARTITION PER ARCH

12 SECTION
3/4" = 1'-0"


DECK PER PLAN
6x3 1/2x5/16" (LLV) ANGLE EACH SIDE W/ 3/4"DIA. THROUGH-BOLT IN 13/16x1 1/2"Lg. VERTICALLY SLOTTED HOLE IN ANGLE VERTICAL LEG (STD HOLE IN HSS WALLS) DO NOT WELD ANGLES TO POST
JOIST PER PLAN
POST PER PLAN

13 SECTION
3/4" = 1'-0"

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STATE OF MISSOURI
CLARK ANDREW BASINGER
NUMBER PE-2010026832
PROFESSIONAL ENGINEER
07/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit , MO 64064

#	Revisions:

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CONSTRUCTION DOCUMENTS

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FRAMING SECTIONS

S301

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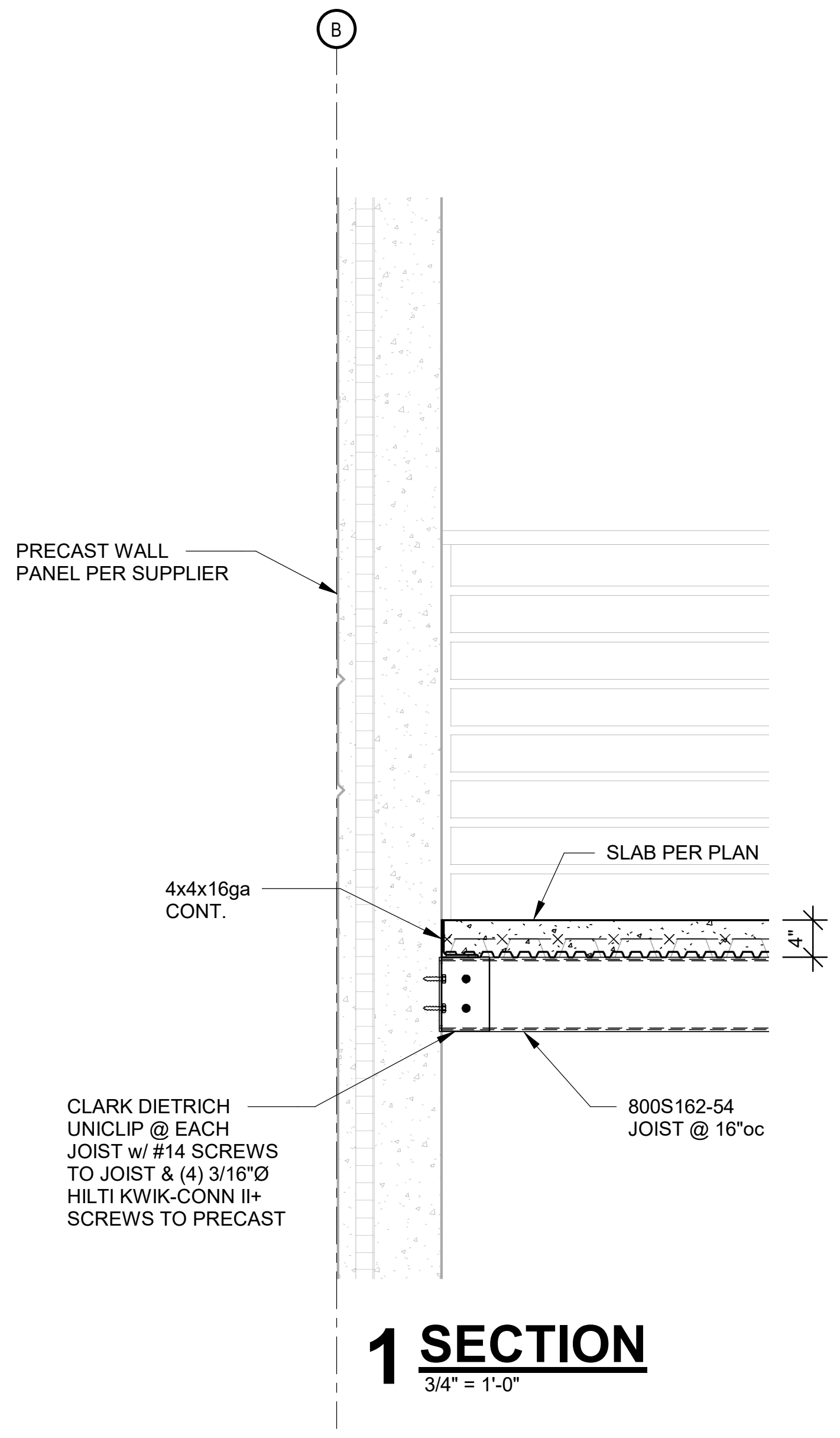
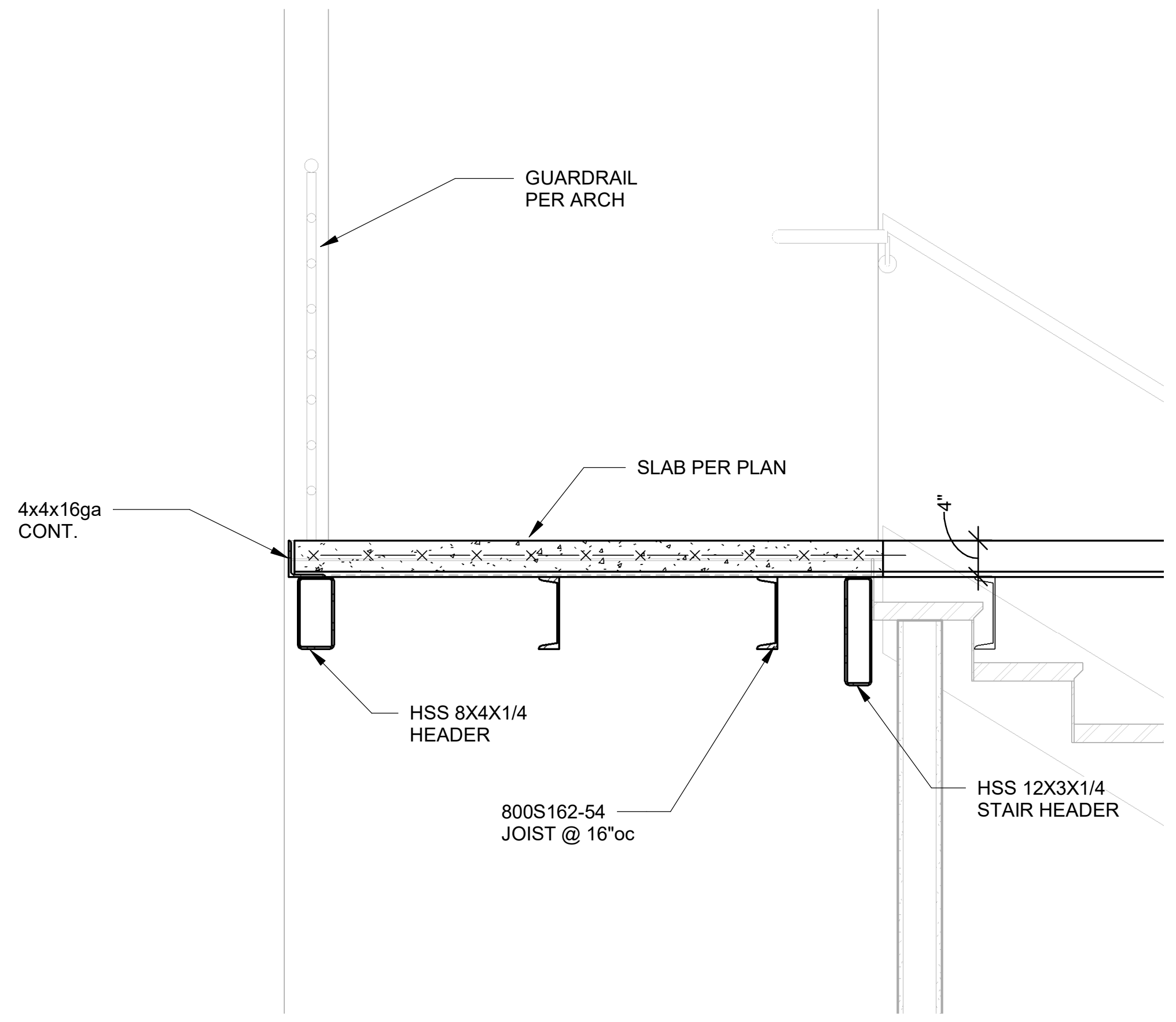
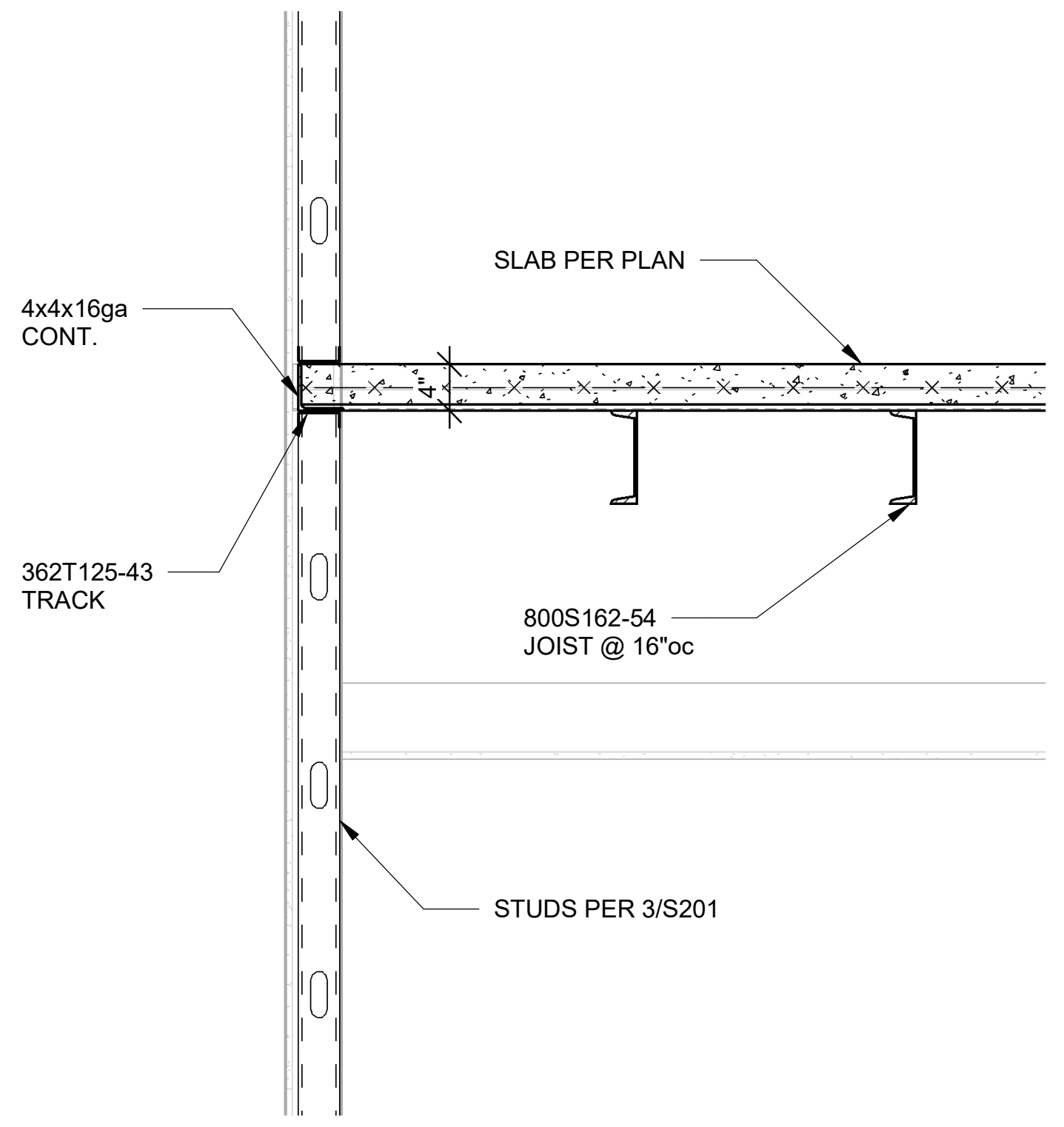

B
PRECAST WALL PANEL PER SUPPLIER
SLAB PER PLAN
4x4x16ga CONT.
4"
CLARK DIETRICH UNICLIP @ EACH JOIST w/ #14 SCREWS TO JOIST & (4) 3/16"Ø HILTI KWIK-CONN II+ SCREWS TO PRECAST
800S162-54 JOIST @ 16"oc

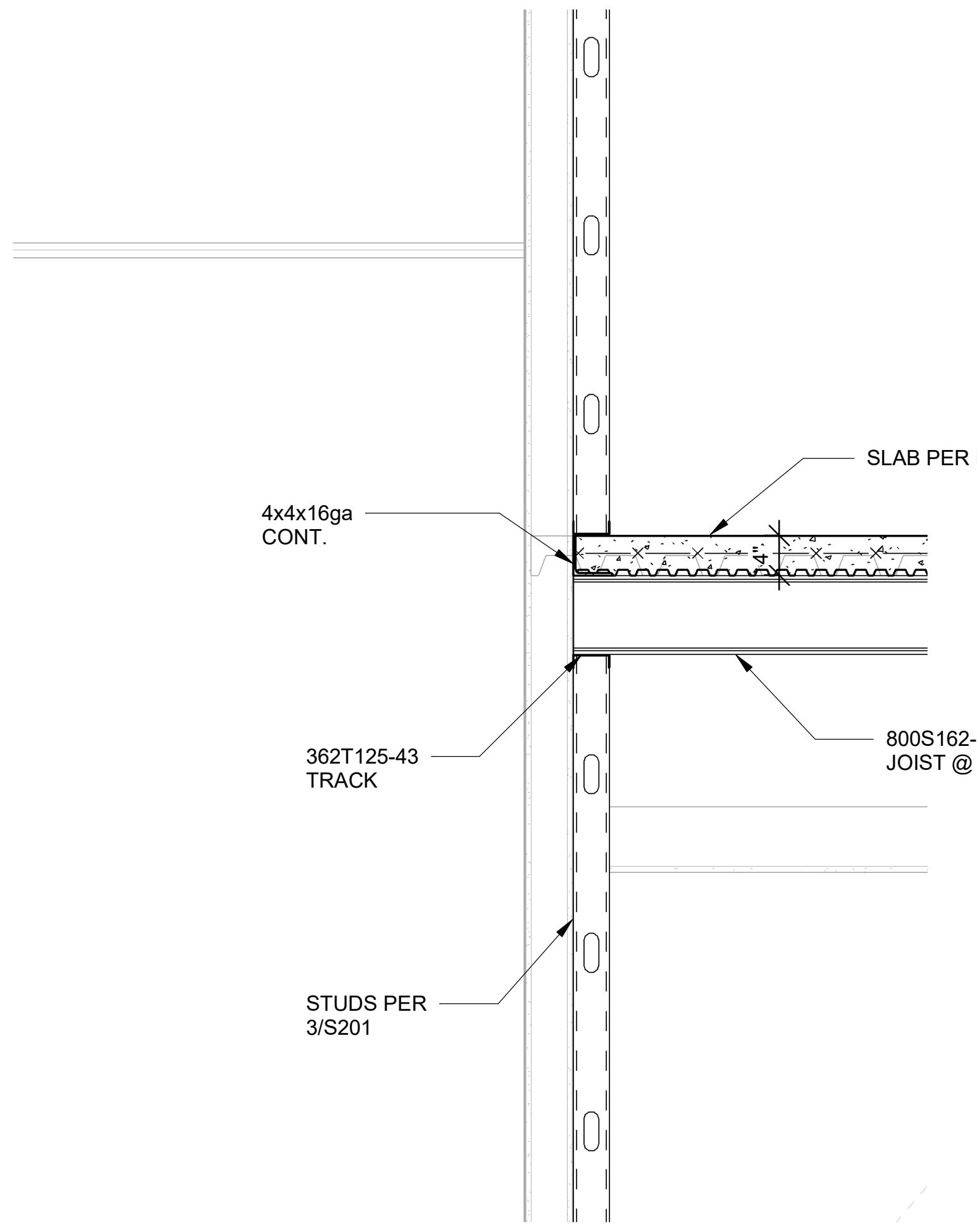
1 SECTION
3/4" = 1'-0"



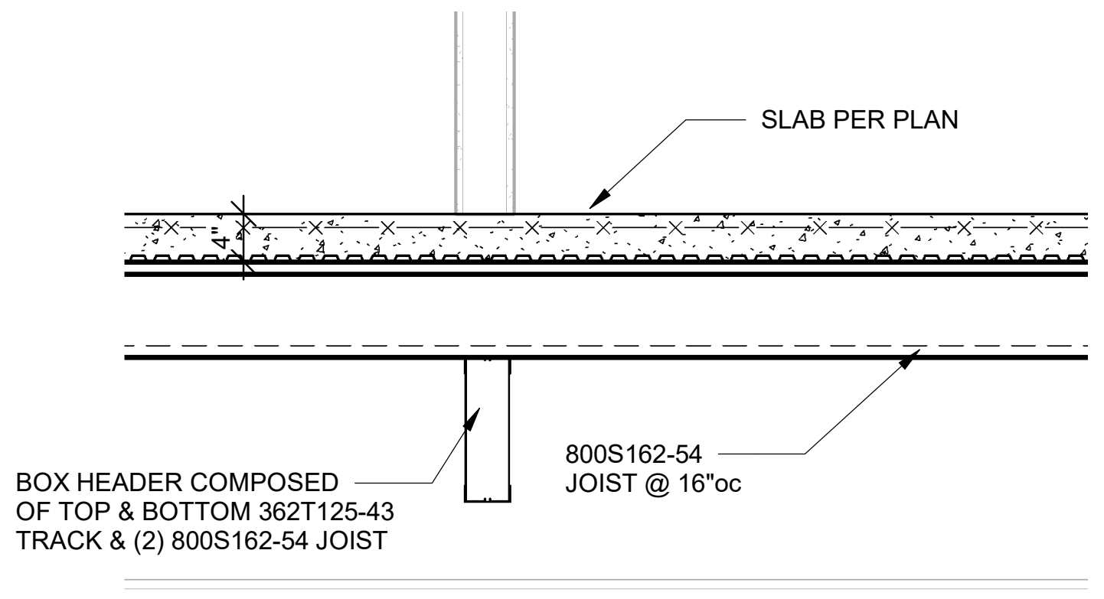
2 SECTION
3/4" = 1'-0"



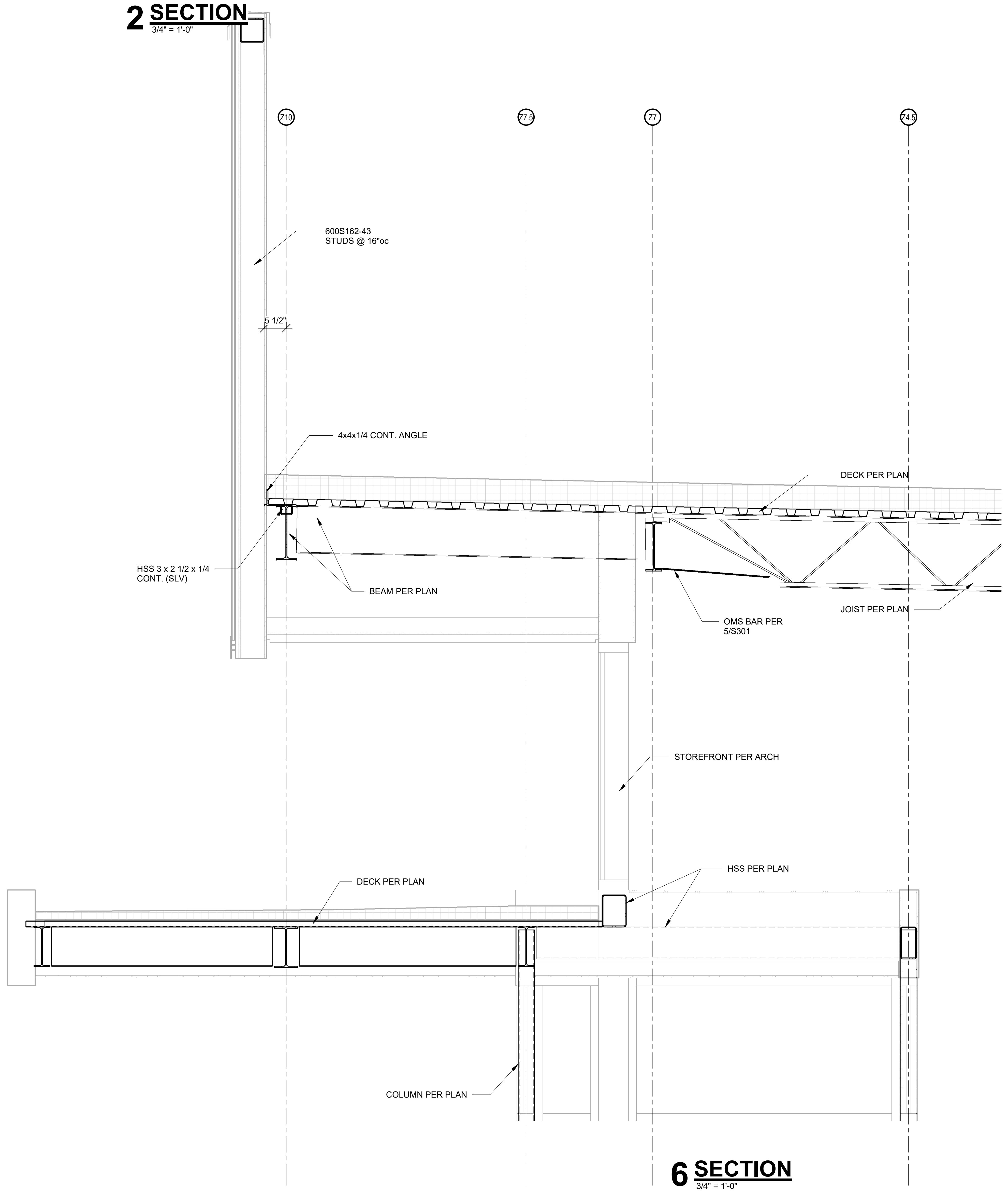
3 SECTION
3/4" = 1'-0"



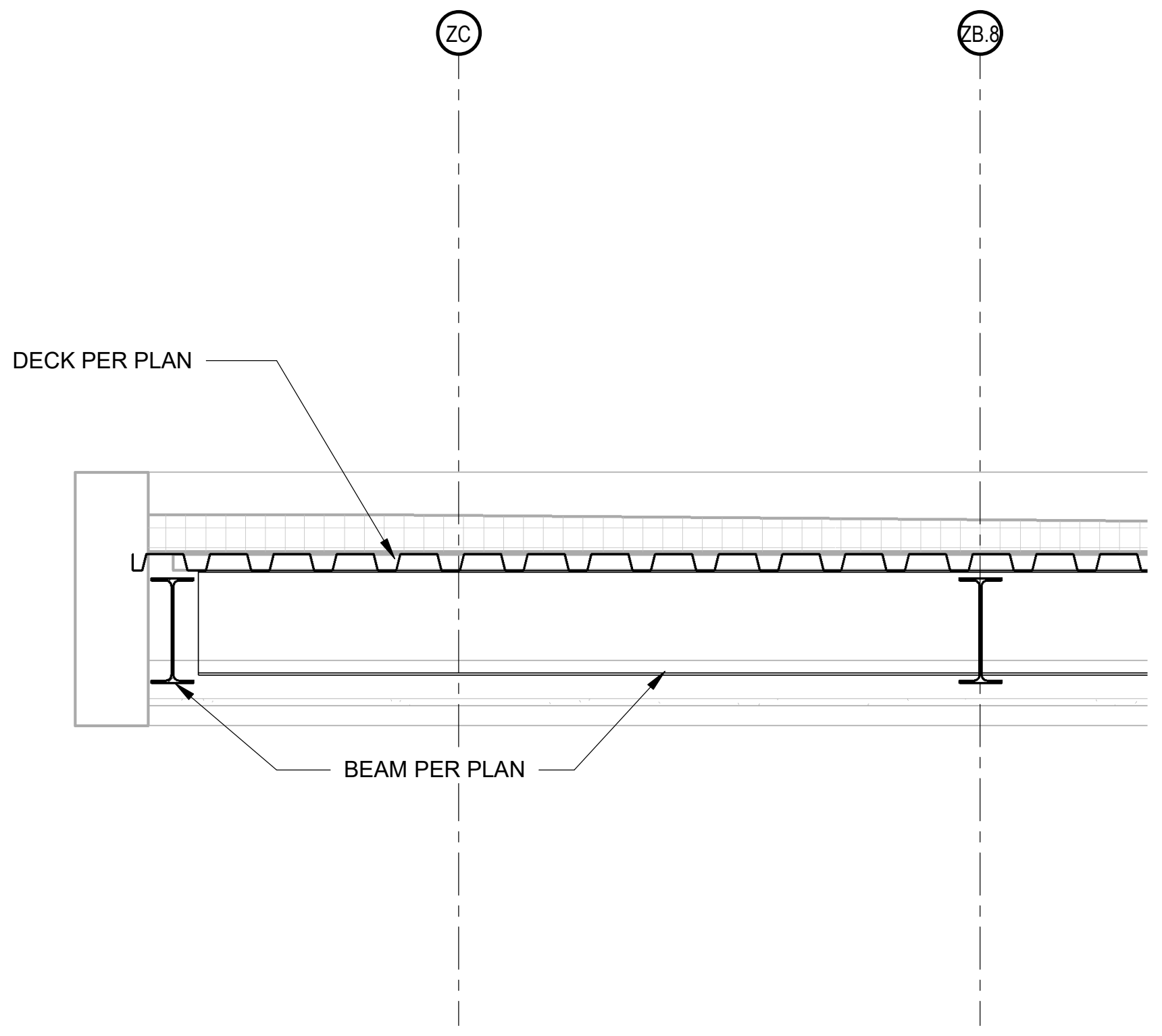
4 SECTION
3/4" = 1'-0"


SLAB PER PLAN
4"
BOX HEADER COMPOSED OF TOP & BOTTOM 362T125-43 TRACK & (2) 800S162-54 JOIST
800S162-54 JOIST @ 16"oc

5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

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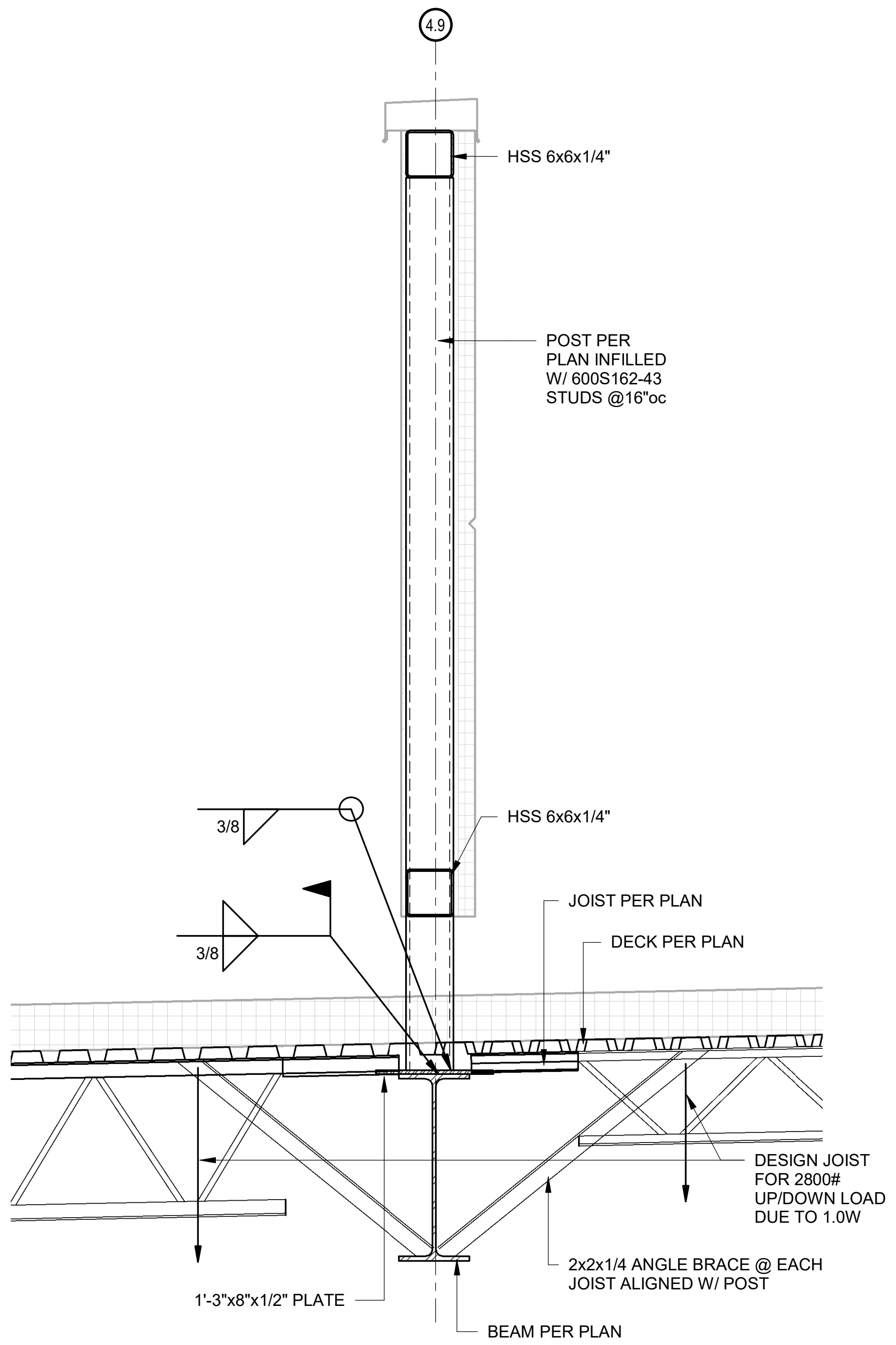
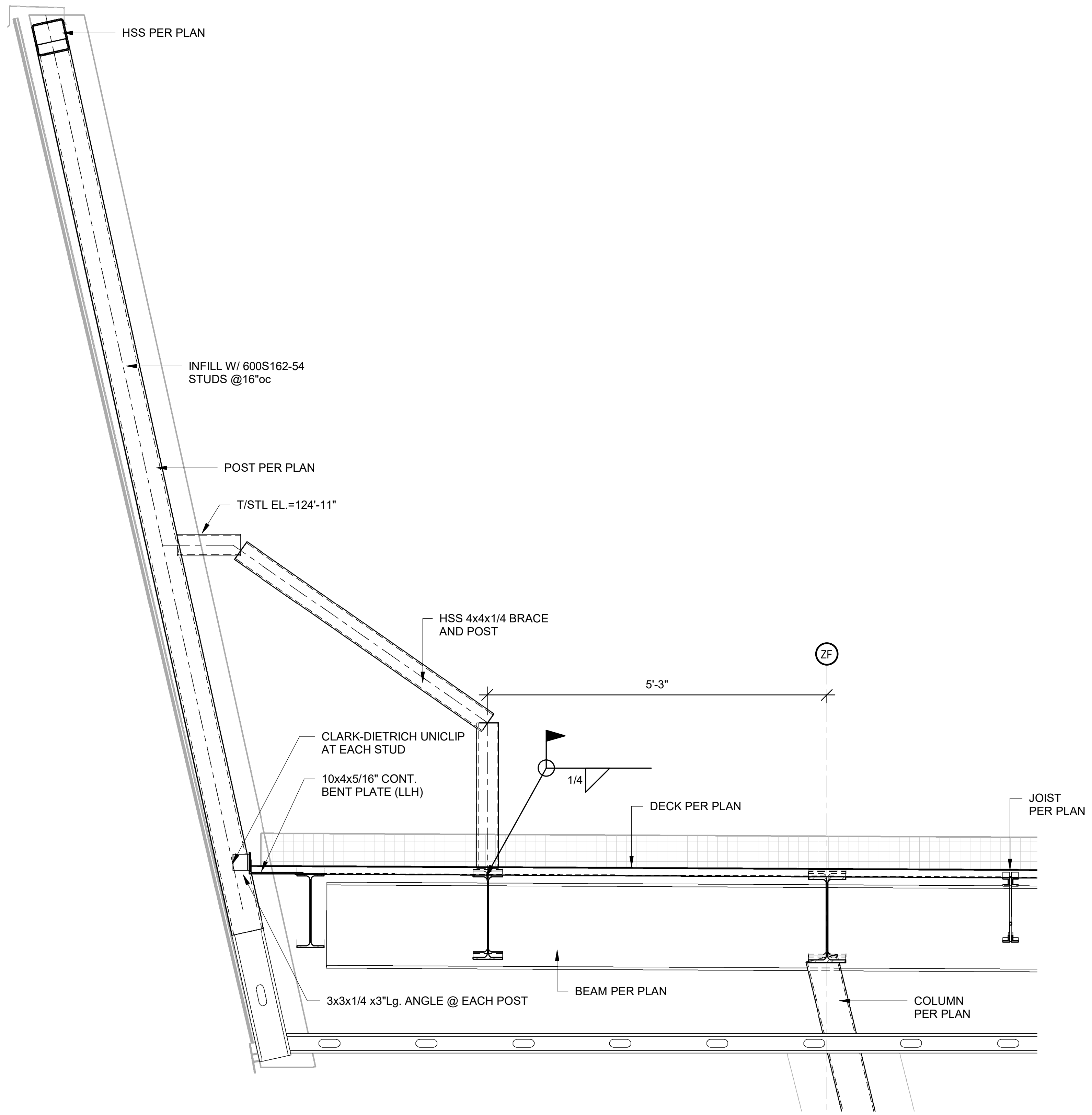
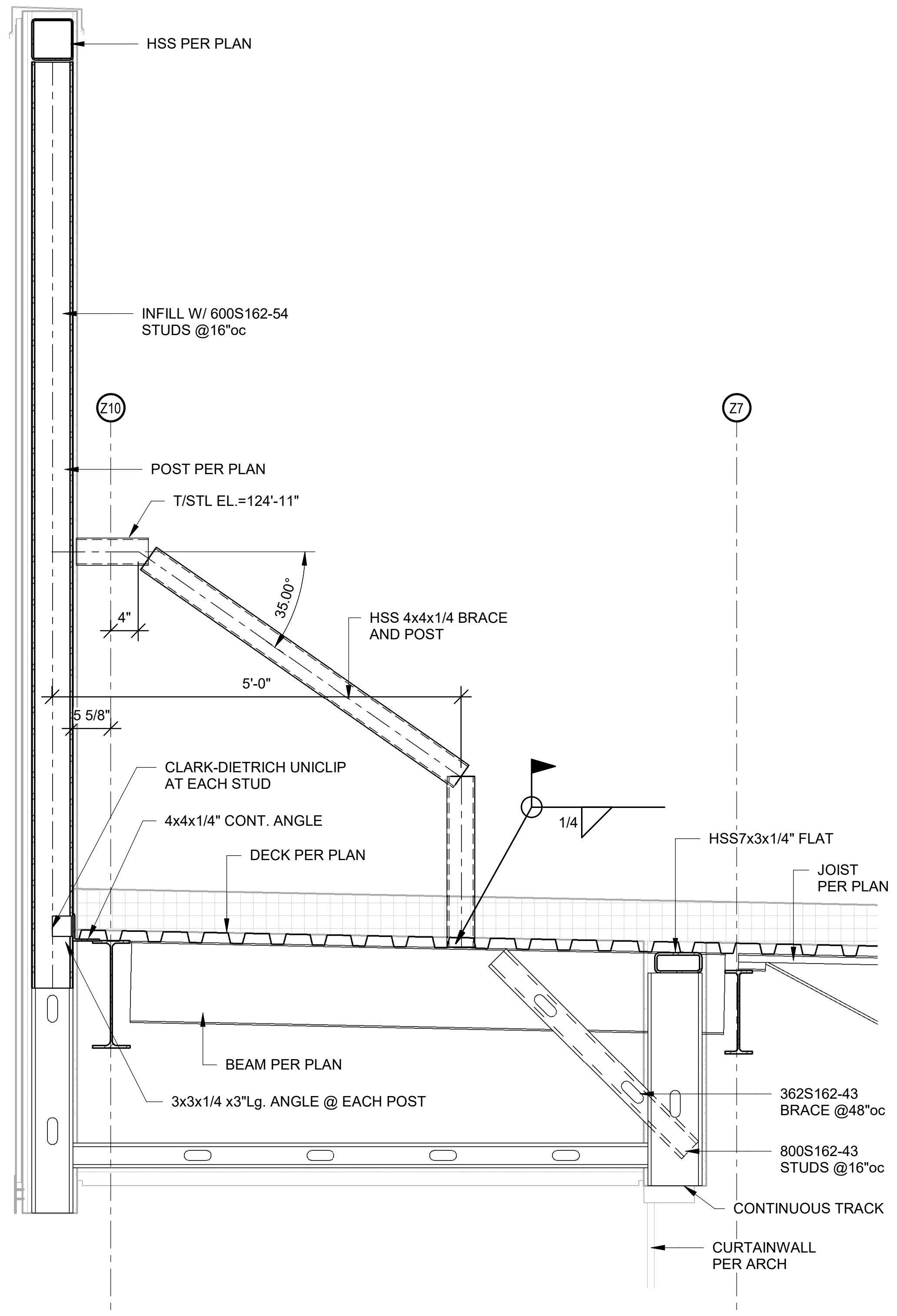

4.9
HSS 6x6x1/4"
POST PER PLAN INFILLED W/ 600S162-43 STUDS @16"oc
HSS 6x6x1/4"
3/8
3/8
JOIST PER PLAN
DECK PER PLAN
DESIGN JOIST FOR 2800# UP/DOWN LOAD DUE TO 1.0W
2x2x1/4 ANGLE BRACE @ EACH JOIST ALIGNED W/ POST
1'-3"x8"x1/2" PLATE
BEAM PER PLAN

1 SECTION
3/4" = 1'-0"


HSS PER PLAN
INFILL W/ 600S162-54 STUDS @16"oc
POST PER PLAN
T/STL EL.=124'-11"
HSS 4x4x1/4 BRACE AND POST
ZF
5'-3"
CLARK-DIETRICH UNICLIP AT EACH STUD
10x4x5/16" CONT. BENT PLATE (LLH)
1/4
DECK PER PLAN
JOIST PER PLAN
3x3x1/4 x3"Lg. ANGLE @ EACH POST
BEAM PER PLAN
COLUMN PER PLAN

2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

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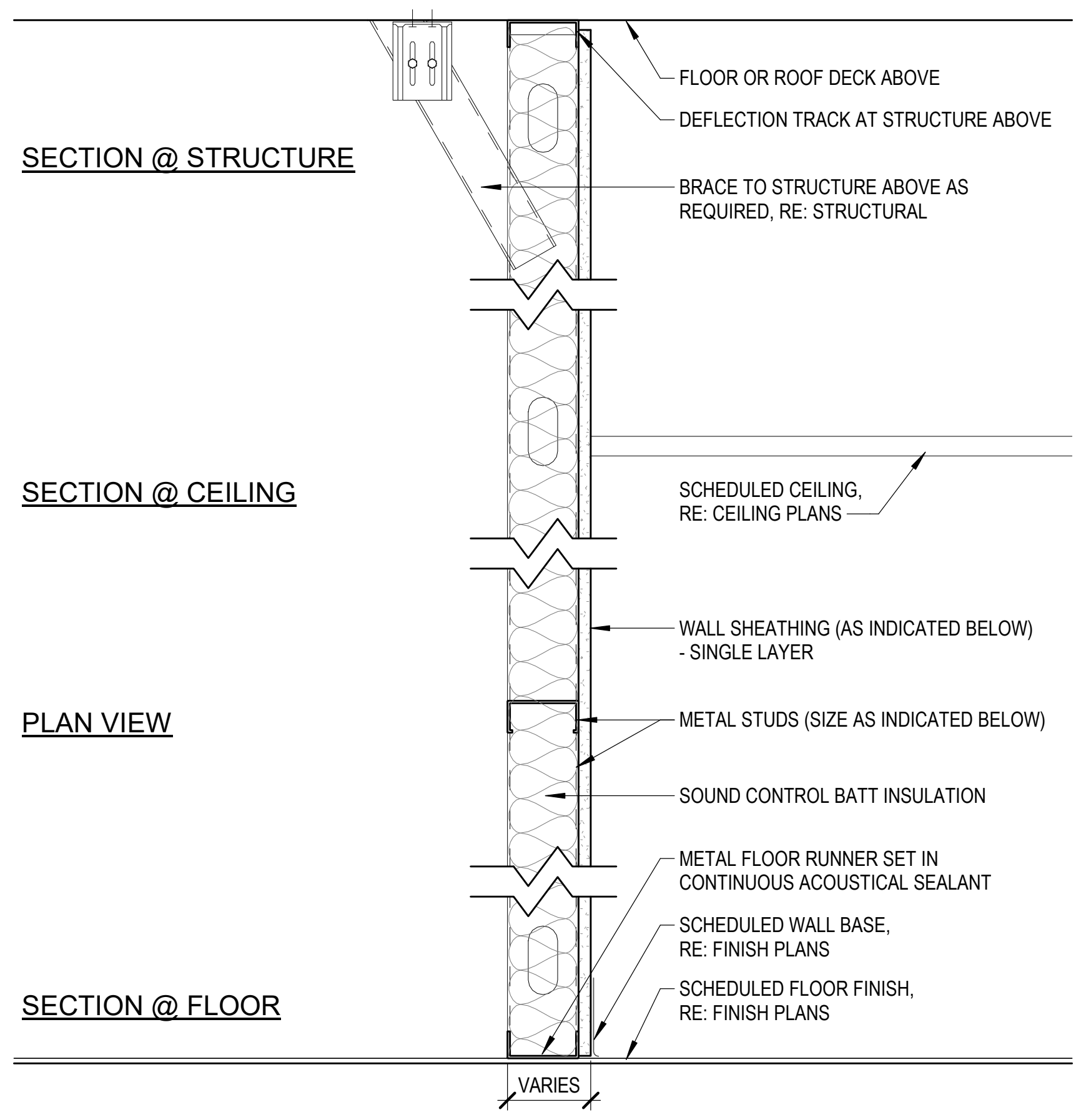
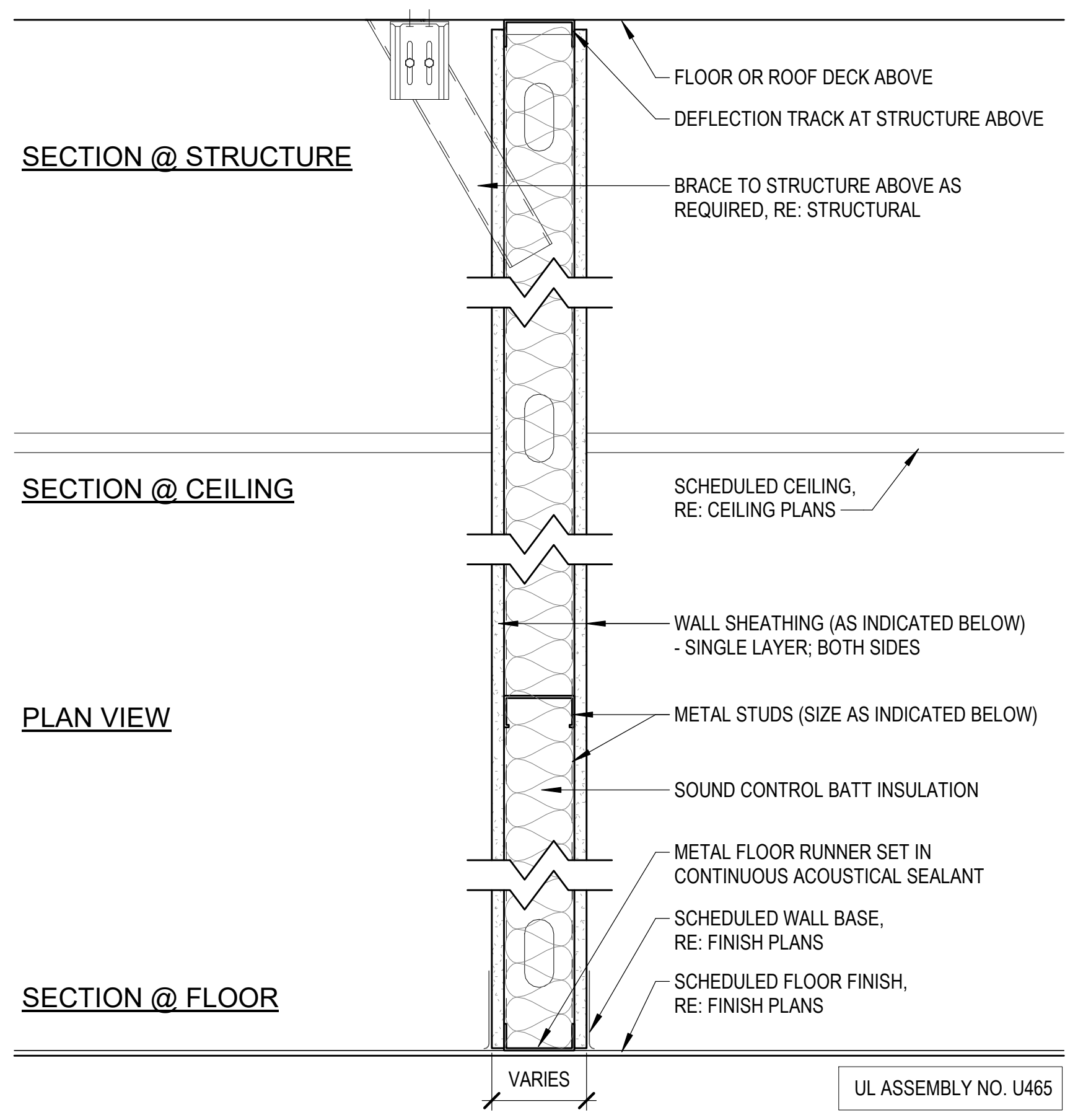

SECTION @ STRUCTURE
FLOOR OR ROOF DECK ABOVE
DEFLECTION TRACK AT STRUCTURE ABOVE
BRACE TO STRUCTURE ABOVE AS REQUIRED, RE: STRUCTURAL
SECTION @ CEILING
SCHEDULED CEILING, RE: CEILING PLANS
WALL SHEATHING (AS INDICATED BELOW) - SINGLE LAYER
PLAN VIEW
METAL STUDS (SIZE AS INDICATED BELOW)
SOUND CONTROL BATT INSULATION
METAL FLOOR RUNNER SET IN CONTINUOUS ACOUSTICAL SEALANT
SCHEDULED WALL BASE, RE: FINISH PLANS
SECTION @ FLOOR
SCHEDULED FLOOR FINISH, RE: FINISH PLANS
VARIES

WALL TYPE	STUD SIZE	WALL SHEATHING	WALL THICKNESS	INSULATION TYPE
C1	7/8"	5/8" GWB	1 1/2"	SOUND BATTS
C2	1 5/8"	5/8" GWB	2 1/4"	SOUND BATTS
C3	2 1/2"	5/8" GWB	3 1/8"	SOUND BATTS
C4	3 5/8"	5/8" GWB	4 1/4"	SOUND BATTS
C5	6"	5/8" GWB	6 5/8"	SOUND BATTS
C6	8"	5/8" GWB	8 5/8"	SOUND BATTS

FULL HEIGHT FURRING
(FULL HEIGHT STUD / FULL HEIGHT GWB)

Wall Type 'C'
1 1/2" = 1'-0"


SECTION @ STRUCTURE
FLOOR OR ROOF DECK ABOVE
DEFLECTION TRACK AT STRUCTURE ABOVE
BRACE TO STRUCTURE ABOVE AS REQUIRED, RE: STRUCTURAL
SECTION @ CEILING
SCHEDULED CEILING, RE: CEILING PLANS
WALL SHEATHING (AS INDICATED BELOW) - SINGLE LAYER; BOTH SIDES
PLAN VIEW
METAL STUDS (SIZE AS INDICATED BELOW)
SOUND CONTROL BATT INSULATION
METAL FLOOR RUNNER SET IN CONTINUOUS ACOUSTICAL SEALANT
SCHEDULED WALL BASE, RE: FINISH PLANS
SECTION @ FLOOR
SCHEDULED FLOOR FINISH, RE: FINISH PLANS
VARIES

UL ASSEMBLY NO. U465

WALL TYPE	STUD SIZE	WALL SHEATHING	WALL THICKNESS	INSULATION TYPE
A1	3 5/8"	5/8" GWB	4 7/8"	SOUND BATTS
A2	6"	5/8" GWB	7 1/4"	SOUND BATTS
A3	8"	5/8" GWB	9 1/4"	SOUND BATTS
A4	12"	5/8" GWB	1'-1 1/4"	SOUND BATTS

FULL HEIGHT PARTITION
(FULL HEIGHT STUD / FULL HEIGHT GWB)

Wall Type 'A'
1 1/2" = 1'-0"

GENERAL NOTES:

FLOOR:
- ADJUST BASE HEIGHT FOR THICKNESS OF FLOOR FINISH AS REQUIRED

STUDS:
- 22 GAUGE STEEL (MIN); INCREASE GAUGE AS REQUIRED FOR SPECIFIC HEIGHT REQUIREMENTS, RE: STRUCTURAL
- SPACING AT 16" O.C. TYPICAL, U.N.O.
- BRACE TO STRUCTURE ABOVE AS REQUIRED
- PROVIDE DEEP SLOTTED TRACK TO ALLOW FOR 1" VERTICAL DEFLECTION AT ROOF ONLY

SHEATHING:
- USG TYPE 'X' GYPSUM WALL BOARD (GWB) TYIPCAL, U.N.O.
- PROVIDE MOISTURE RESISTANT GWB (GREENBOARD) AT ALL RESTROOM WALLS
- PROVIDE CEMENT BOARD AT ALL CERAMIC TILE APPLICATIONS, U.N.O.
- 5/8" THICK, U.N.O. (AS INDICATED PER WALL TYPE TABLE)

INSULATION:
- FORMALDEHYDE FREE FIBERGLASS EQUAL TO JOHNS MANVILLE OR OWENS CORNING
- TYPICALLY OCCURS IN DEMISING WALLS BETWEEN TENANT SPACES
- PROVIDE THERMAL BATTS AT EXTERIOR WALLS AS INDICATED ON PLAN DETAILS AND WALL SECTIONS

FIRE RATING:
- PROVIDE FIRE RATED CONSTRUCTION ONLY WHERE INDICATED ON PLANS

CODE REVIEW

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED.

PROJECT INFORMATION SUMMARY:

BUILDING OCCUPANCY:

NON-SEPARATED OCCUPANCIES:	GROUP B - BUSINESS GROUP A-2 - TAVERNS AND BARS, GAMING AREAS GROUP A-3 - RECREATION OR AMUSEMENT WITHOUT SPECTATOR SEATING
BUILDING CONSTRUCTION CLASS:	TYPE IIB
BUILDING HEIGHT:	33'-0" FEET
ALLOWABLE HEIGHT:	75 FEET
STORIES:	1
ALLOWABLE STORIES:	3
BUILDING AREA:	45,230 S.F.
ALLOWABLE AREA:	49,970 S.F. (38,000S.F. PER TABLE 506.2 + AREA INCREASES)

1 STORY:
EXCEPTION FOR 506.3.2 MIN. FRONTAGE DISTANCE
PER 506.2.3 Aa = [At + (NS x If)]
W = (26.81' x 25' + 60' x 24' + 264.35' x 60' + 102' x 50' + 52' x 60' + 260' x 60'
162' x 30') / 927' = 46,651.25 / 927 = 50.32'
If = [F/P - 0.25] W/30 = 927' / 927' - .25 = .75 x 50.32' / 30' = 1.26 INCREASE PER SECTION 506.2
Aa = [38,000 + (9500 x 1.26)] = 49,970 S.F. ALLOWABLE SINGLE STORY BUILDING AREA

BUILDING PROTECTED BY AUTOMATIC SPRINKLER SYSTEM: YES

BUILDING IS PROTECTED BY AUTOMATIC FIRE ALARM SYSTEM (NFPA 70 AND NFPA 72): YES

APPLICABLE CODES:

BUILDING CODE:	INTERNATIONAL BUILDING CODE	2018 EDITION
MECHANICAL CODE:	INTERNATIONAL MECHANICAL CODE	2018 EDITION
PLUMBING CODE:	UNIFORM PLUMBING CODE	2018 EDITION
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE	2017 EDITION
FIRE CODE:	INTERNATIONAL FIRE CODE	2018 EDITION
GAS CODE:	INTERNATIONAL FUEL GAS CODE	2018 EDITION
ACCESSIBILITY:	ICC/ANSI, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	A117.1-2009

FIRE-RESISTANCE - BUILDING ELEMENTS (TABLE 601):

FOR TYPE IIB CONSTRUCTION:

PRIMARY STRUCTURAL FRAME:	0 HRS
BEARING WALLS (EXTERIOR AND INTERIOR):	0 HRS
NONBEARING WALLS - EXTERIOR:	PER TABLE 602
NONBEARING WALLS - INTERIOR:	0 HRS
FLOOR CONSTRUCTION:	0 HRS
ROOF CONSTRUCTION:	0 HRS

FIRE-RESISTANCE FOR EXTERIOR WALLS - FIRE SEPARATION DISTANCE (TABLE 602):

OCCUPANCY GROUP S1

X < 5'	2 HRS
5' ≤ X < 10'	1 HR
10' ≤ X < 30'	0 HR
X > 30'	0 HRS

FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.5):

NAME	AREA	OCC. LOAD	PER RM. CALCULATED OCC.
BUSINESS	2,926 S.F.	150 S.F. / OCC	24
A2 RESTAURANT / BAR	4,614 S.F.	15 SF / OCC	308
A3 INDOOR RECREATION	30,128 S.F.	PER RACE	14
S1 MODERATE HAZARD STORAGE	330 S.F.	300 S.F. / OCC	2
S2 LOW HAZARD STORAGE	1,443 S.F.	200 S.F. / OCC	9
A2 KITCHEN AND BAR	806 S.F.	200 S.F. / OCC	4
ASSEMBLY-UNCONCENTRATED	2,477 S.F.	15 SF / OCC	166
TOTAL OCCUPANT LOAD			527

EGRESS WIDTH REQUIREMENTS (SECTION 1005):

STAIRS: 0.2 INCH PER OCCUPANT = (0.2) X 5 (OCC) = 1"
OTHER MEANS OF EGRESS: 0.15 INCH PER OCCUPANT = (0.15) X 527 (OCC) = 79.05"

EGRESS WIDTH PROVIDED WITH STAIRS = 60" PROVIDED

ACTUAL EGRESS WIDTH PROVIDED FIRST FLOOR = 204" PROVIDED

NUMBER OF EXITS PER SPACE (SECTION 1006.2.1.1):

EXITS REQUIRED: 501 TO 1000 OCCUPANTS 3 EXITS REQUIRED

ACTUAL EXITS PROVIDED	OCCUPANT LOAD (FOR EXITING)
5 EXITS	527 OCCUPANTS

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2):

OCCUPANCY A & S-1 MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM): 250'-0"
OCCUPANCY B MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM): 300'-0"
OCCUPACNY S-2 MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM): 400'-0"

MAX. TRAVEL DISTANCE PROVIDED: 247'-0"

PLUMBING FIXTURES (TABLE 2902.1):

WATER CLOSETS:

OCCUPANCY TYPE BUSINESS:
1 PER 25 FOR THE FIRST 50
AND 1 PER 50 FOR THE REMAINDER
TOTAL: 44 OCC.
MALE: 22 OCC, REQUIRED: 22 / 25 = .88
FEMALE: 22 OCC, REQUIRED: 23 / 25 = .88

OCCUPANCY TYPE: STORAGE
1 PER 100
TOTAL: 2
MALE: 1 OCC. REQUIRED: 1 / 100 = .01
FEMALE: 1 OCC. REQUIRED: 1 / 100 = .01

OCCUPANCY TYPE: SHOP / FACTORY
1 PER 100
TOTAL: 9
MALE: 5 OCC. REQUIRED: 5 / 100 = .05
FEMALE: 4 OCC. REQUIRED: 4 / 100 = .04

OCCUPANCY TYPE: RESTAURANTS:
1 PER 75
TOTAL: 308
MALE: 154 REQUIRED: 154 / 75 = 2.05
FEMALE: 154 REQUIRED: 154 / 75 = 2.05

OCCUPANCY TYPE: GAMING AREAS, ARCADES
1 PER 125 FOR MALE, 1 PER 65 FOR FEMALE
TOTAL: 150
MALE: 75 OCC. REQUIRED: 75 / 125 = .60
FEMALE: 75 OCC. REQUIRED: 75 / 65 = 1.15

OCCUPANCY TYPE: COLLISEUMS, ARENAS
1 PER 75 FOR THE FIRST 1,500 FOR MALE,
1 PER 40 FOR FIRST 1520 FOR FEMALE
TOTAL: 14
MALE: 7 OCC. REQUIRED: 7 / 75 = .09
FEMALE: 7 OCC. REQUIRED: 7 / 40 = .175

TOTAL REQUIRED: 7.985 / 2 = 4 EA.
PROVIDED:
MALE: 4
FEMALE: 4

LAVATORIES:

OCCUPANCY TYPE BUSINESS:
1 PER 40 FOR THE FIRST 80
AND 1 PER 80 FOR THE REMAINDER
TOTAL: 44 OCC.
MALE: 22 OCC, REQUIRED: 22 / 40 = .55
FEMALE: 22 OCC, REQUIRED: 21 / 40 = .55

OCCUPANCY TYPE: STORAGE
1 PER 100
TOTAL: 2
MALE: 1 OCC. REQUIRED: 1 / 100 = .01
FEMALE: 1 OCC. REQUIRED: 1 / 100 = .01

OCCUPANCY TYPE: SHOP / FACTORY:
1 PER 100
TOTAL: 9
MALE: 5 REQUIRED: 5 / 100 = .05
FEMALE: 4 REQUIRED: 4 / 100 = .04

OCCUPANCY TYPE: RESTAURANT:
1 PER 200
TOTAL: 308
MALE: 154 REQUIRED: 154 / 200 = .77
FEMALE: 154 REQUIRED: 154 / 200 = .77

OCCUPANCY TYPE: GAMING AREAS, ARCADES:
1 PER 200
TOTAL: 150
MALE: 75 REQUIRED: 75 / 200 = .375
FEMALE: 75 REQUIRED: 75 / 200 = .375

OCCUPANCY TYPE: COLISEUMS, ARENAS:
1 PER 200 MALE, 1 PER 150 FEMALE
TOTAL: 14
MALE: 7 REQUIRED: 7 / 200 = .035
FEMALE: 7 REQUIRED: 7 / 150 = .046

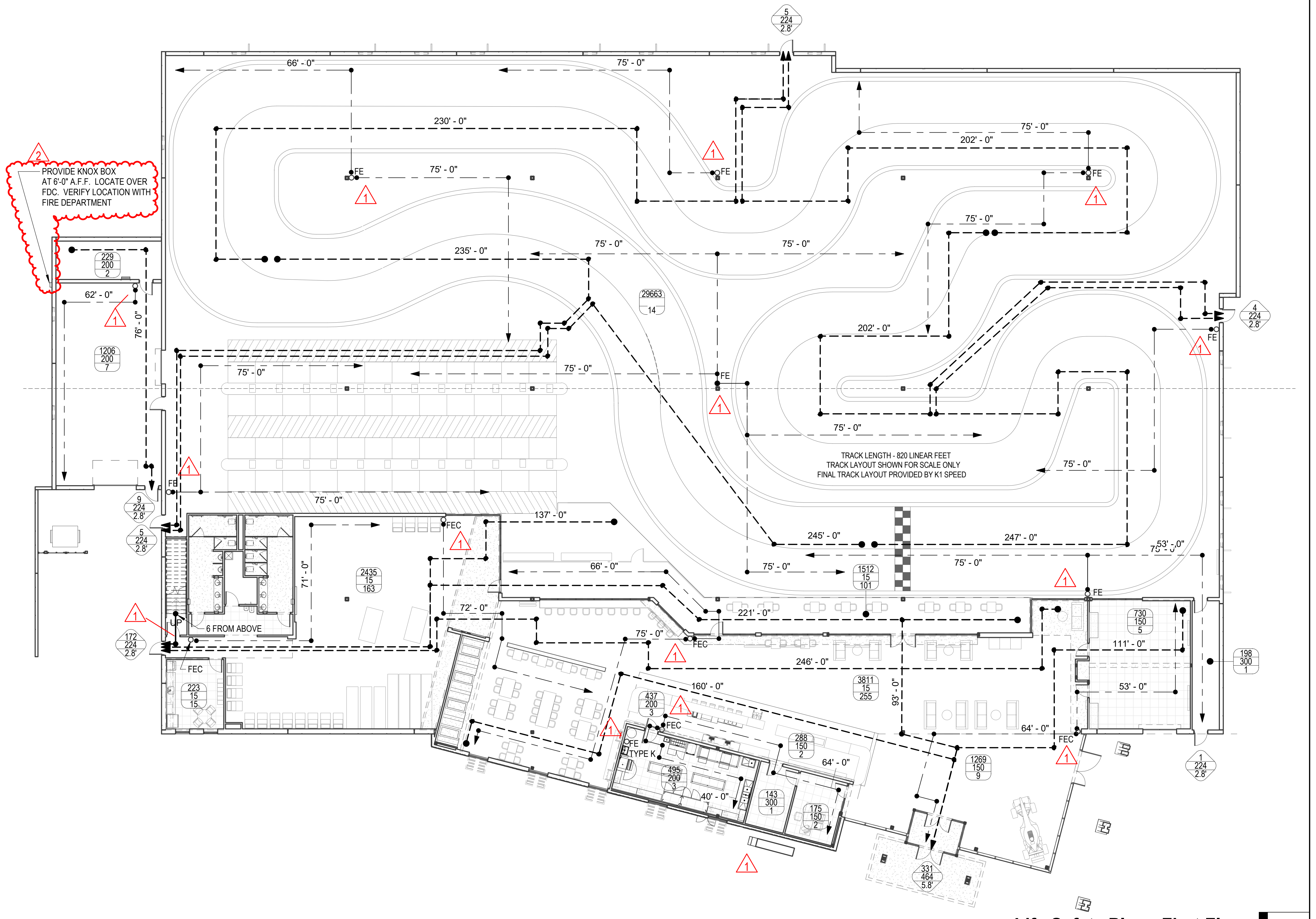
TOTAL REQUIRED: 3.58 / 2 = 1.78 (2) EA.
PROVIDED:
MALE: 3
FEMALE: 3

DRINKING FOUNTAINS:
2 PROVIDED:
HIGH - LOW HANDICAPPED ACCESSIBLE

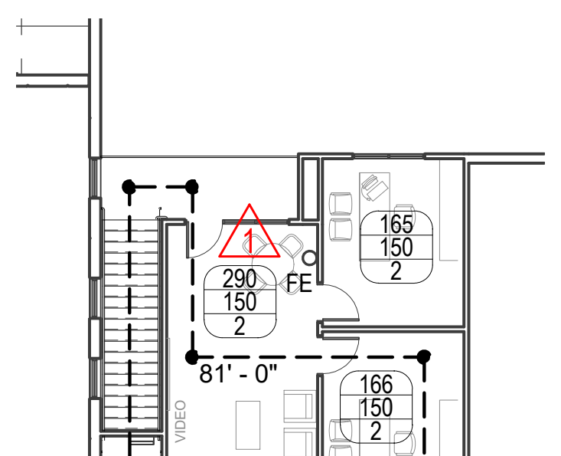
REQUIRED SERVICE SINK:
REQUIRED: 1
PROVIDED: 1

DRAWING SYMBOL LEGEND

SYMBOL	NAME	DESCRIPTION
XXX	NEW DOOR IN NEW WALL	NEW DOOR (#XXX) AND FRAME IN NEW OR EXISTING WALL. SEE DOOR SCHEDULE FOR DOOR INFORMATION.
AF#	STOREFRONT OR HOLLOW METAL VIEW FRAME IN WALL	INTERIOR ALUMINUM STOREFRONT OR HOLLOW METAL FRAME IN WALL. SEE FRAME TYPE ELEVATIONS FOR DETAILS. AF# OR HM# INDICATES FRAME # ON FRAME TYPES SHEET.
SF# CW#	STOREFRONT CURTAIN WALL	EXTERIOR ALUMINUM STOREFRONT OR EXTERIOR ALUMINUM CURTAIN WALL. SEE FRAME TYPE ELEVATIONS FOR DETAILS. SF# OR CW# INDICATES FRAME # ON FRAME TYPES SHEET.
FEC ▭	FULLY-RECESSED FIRE EXTINGUISHER CABINET	FULLY-RECESSED ALUMINUM FIRE EXTINGUISHER CABINET w/ SOLID DOOR PANEL AND VERTICAL BLACK DECAL. MOUNT TOP OF CABINET AT 60" A.F.F. MAX. (A.D.A.). CLEAR ANODIZED ALUMINUM FINISH w/ CLEAR GLASS. PROVIDE FIRE EXTINGUISHER EQUAL TO J.L. COSMIC #6E. INSPECTION TAGS SHALL BE PROVIDED BY GC.
FE ○	FIRE EXTINGUISHER AND BRACKET	WALL MOUNTED FIRE EXTINGUISHER AND BRACKET AS REQ'D BY LOCAL FIRE CODE OFFICIALS. MOUNT TOP OF EXTINGUISHER AT 48" A.F.F. MAX. (A.D.A.). INSPECTION TAGS SHALL BE PROVIDED BY GC. PROVIDE SPECIFIED SIGNAGE ABOVE FIRE EXTINGUISHER AT 72" A.F.F.
DS ☐	DOWNSPOUT	6"x6" PREFINISHED (KYNAR 500) ALUMINUM SHOP-FABRICATED BOX DOWNSPOUT FROM GUTTER OR SCUPPER ABOVE. CONTINUE TO UNDERGROUND STORM DRAIN SYSTEM PER CIVIL DRAWINGS U.N.O. SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES. HIDDEN SEAM – TYPICAL.
◐	ELEVATION	HEIGHT ABOVE FINISH FLOOR ELEVATION.
2-HOUR ◇X 3'-6"	WALL TYPE TAG	WALL TYPE SYMBOL INDICATES TYPE OF WALL CONSTRUCTION WITH FIRE RATING AND HEIGHT WHERE APPLICABLE. REFER TO WALL TYPES (SHEET A-002) FOR DETAILS.
XXX 0'-0"	CEILING TAG	INDICATES CEILING TYPE AND HEIGHT FROM FLOOR BELOW.
X XX	ENLARGED PLAN OR DETAIL TAG	ENLARGED DETAIL SYMBOL: INDICATES A PORTION OF THE DRAWING WHICH IS ENLARGED OR DETAILED. REFER TO SHEET AND DRAWING # INDICATED FOR ASSOCIATED DRAWING.
X XX	INTERIOR ELEVATION TAG	INTERIOR ELEVATION SYMBOL: INDICATES DIRECTION VIEWED. REFER TO SHEET AND DRAWING # INDICATED FOR ASSOCIATED ELEVATION.
X XX	EXTERIOR ELEVATION TAG	EXTERIOR ELEVATION SYMBOL: INDICATES DIRECTION VIEWED. REFER TO SHEET AND DRAWING # INDICATED FOR ASSOCIATED ELEVATION.
X XX	WALL SECTION TAG	SECTION SYMBOL: INDICATES LOCATION OF SECTION CUT AND DIRECTION VIEWED. REFER TO SHEET AND DRAWING # INDICATED FOR ASSOCIATED SECTION.
X XX	BUILDING SECTION TAG	SECTION SYMBOL: INDICATES LOCATION OF SECTION CUT AND DIRECTION VIEWED. REFER TO SHEET AND DRAWING # INDICATED FOR ASSOCIATED SECTION.
X.X	GRID LINE MARKER	STRUCTURAL GRID MARKER. REFERS TO STRUCTURAL ENGINEERING DRAWINGS' GRID LINE NUMBERING SYSTEM.
CH DS ROOF	THRU-WALL SCUPPER AND CONDUCTOR HEAD	PREFINISHED (KYNAR 500) SHOP-FABRICATED METAL THRU-WALL OVERFLOW SCUPPER SLEEVE AND CONDUCTOR HEAD.
EWC	SURFACE MOUNTED ELECTRIC WATER COOLER	SURFACE-MOUNTED STAINLESS STEEL SELF-CONTAINED ELECTRIC REFRIGERATED BI-LEVEL WALL-MOUNTED BARRIER-FREE WATER COOLER w/ GREY POLYMER CABINET.



Life Safety Plan - First Floor 1
1/16" = 1'-0"



Life Safety Plan - Mezzanine 2
1/16" = 1'-0"

GENERAL NOTES

1. ALL NEW CONSTRUCTION SHALL MEET LATEST EDITIONS OF ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING CODES.
2. BUILDING PERMIT WILL BE REQUIRED FOR THE PROJECT. PERMIT SHALL BE OBTAINED AND PAID FOR BY THE GENERAL CONTRACTOR.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL REVIEW THE CONTRACT DOCUMENTS TO FAMILIARIZE HIMSELF WITH THE REQUIREMENTS AND INTENT OF THE SCOPE OF WORK PRIOR TO BID. ANY DEFICIENCIES OR DISCREPANCIES DISCOVERED SHALL BE REPORTED TO THE PROJECT MANAGER OR THE ARCHITECT FOR REVIEW AND CLARIFICATION PRIOR TO COMMENCING ANY WORK.
4. EACH CONTRACTOR AND SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF HIS WORK WITH THE WORK OF SUB-CONTRACTORS OR OTHER CONTRACTORS.
5. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. QUALITY MATERIALS SHALL BE USED THROUGHOUT. ALL WORK SHALL BE DONE IN A MANNER SO AS TO MATCH ADJACENT WORK AND FINISHES AND AS APPROVED BY OWNER.
6. CONTRACTORS SHALL BE RESPONSIBLE FOR CONTAINING THEIR WORK WITHIN THE WORK AREA AND PROTECTING THE PUBLIC FROM INJURIES AT ALL TIMES. CONTRACTOR SHALL SECURE THE WORK AT THE END OF EACH WORK DAY.
7. KEEP PREMISES BROOMED CLEAN AT ALL TIMES FROM FOREIGN MATERIAL CREATED UNDER THE CONTRACT. PROVIDE TARPAULINS TO PROTECT ALL FINISHES, SURFACES, AND EQUIPMENT.
8. AREAS FOR MATERIAL STORAGE, TRASH DISPOSAL, WORKMEN'S PARKING, ETC., SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
9. ALL WOOD BLOCKING AND PLYWOOD BACKING SHALL BE FIRE RETARDANT TREATED.
10. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR.

LEGEND

X'-X"	ACTUAL TRAVEL DISTANCE
→	DIRECTION OF TRAVEL
◀	DIRECTION OF OCCUPANT FLOW THROUGH ELEMENT
XX	NUMBER OF OCCUPANTS ADVANCING
○ FE	FIRE EXTINGUISHER
○ FEC	FIRE EXTINGUISHER IN CABINET
X'-X"	ACTUAL TRAVEL DISTANCE
→	TRAVEL DISTANCE TO A FIRE EXTINGUISHER

AREA TAG
000 — ROOM / SPACE AREA (SQ. FT.)
000 — OCCUPANT LOAD FACTOR (SQ. FT. / PERSON)
000 — NUMBER OF CALCULATED OCCUPANTS

EXIT TAG
000 — TOTAL NUMBER OF OCCUPANTS EXITING
000 — CAPACITY OF EXIT ELEMENT
000 — EXIT WIDTH (WHOLE INCHES)

NOTE:
THE CONTRACTOR IS TO PROVIDE AND INSTALL FIRE EXTINGUISHERS THROUGHOUT THE PROJECT AS REQUIRED BY THE LOCAL FIRE MARSHAL. CONTRACTOR IS TO VERIFY TYPES, QUANTITIES AND LOCATIONS WITH THE LOCAL FIRE MARSHAL. PROVIDE PORTABLE FIRE EXTINGUISHERS THROUGHOUT THE BUILDING AS REQUIRED BY THE APPLICABLE BUILDING AND FIRE CODES. SIZE AND LOCATE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. STANDARD FOR PORTABLE FIRE EXTINGUISHERS SHALL BE 10LB, TYPE ABC IN ALL NON KITCHEN AREAS. FIRE EXTINGUISHERS IN KITCHEN AREAS TO BE CLASS K RATED. 1

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7.19.22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

#		
1	City Comments	08-18-2022
2	City Comments	09-01-2022

Project #: 211107

CONSTRUCTION DOCUMENTS

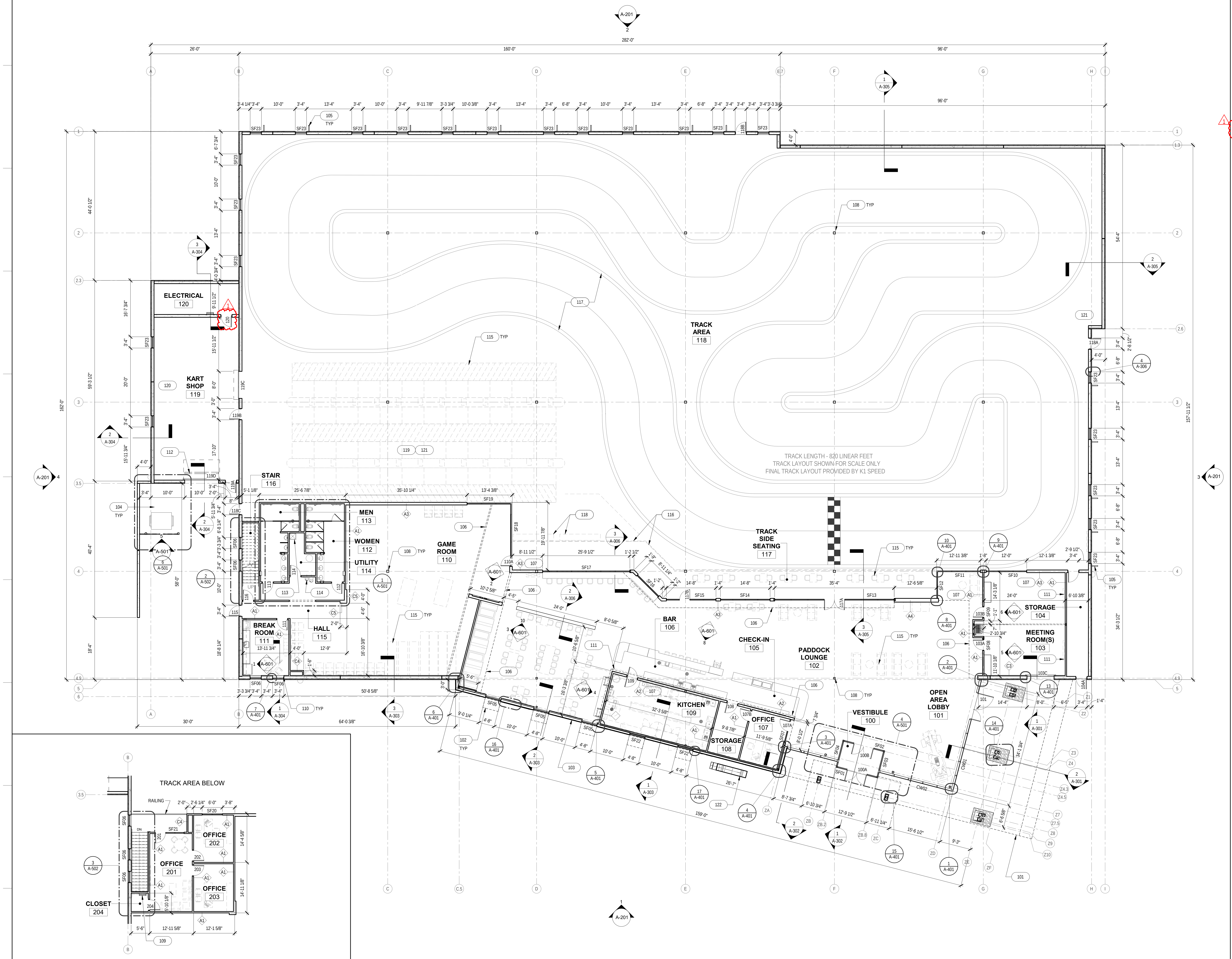
July 19, 2022

GENERAL INFO, WALL TYPES, CODE REVIEW & LIFE SAFETY PLANS

A-001

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022



Floor Plan - First Floor 1

3/32" = 1'-0"

Floor Plan - Mezzanine 2

3/32" = 1'-0"

SHEET NOTES:

- ALL DIMENSIONS ARE TO FINISH FACE OF WALL UNLESS NOTED OTHERWISE

KEYNOTES

102	EXTERIOR ALUMINUM CANOPY ABOVE, RE: EXTERIOR ELEVATIONS
103	6"H X WIDTH OF STUD CONCRETE STEM WALL BELOW EXTERIOR STUD WALL, RE: WALL SECTIONS
104	6" HD GALVANIZED CONCRETE FILLED STEEL BOLLARD WITH HP COATING, COLOR: TBD RE: EXTERIOR ELEVATIONS
105	VERTICAL SUN SCREEN, RE: 4/A-306
107	WALL CENTERED ON COLUMN
108	EXPOSED COLUMN - PAINT, RE: FINISH PLAN & SCHEDULE
109	ROOF LADDER - PAINT, WITH ACCESS HATCH ABOVE, SEE DRAWING 3/A-304 FOR REFERENCE RE: ROOF PLAN
110	SOLID SURFACE SILL, RE: FINISH PLAN & SCHEDULE
111	WALL MOUNTED TV BY OWNER
112	FLOOR DRAIN, RE: PLUMBING
113	MOP SINK, RE: PLUMBING
114	DRINKING FOUNTAIN, RE: PLUMBING
115	OWNER PROVIDED FURNITURE / EQUIPMENT, RE: FURNITURE & EQUIPMENT PLANS
116	42" HIGH PERMANENT ALUMINUM FENCE WITH 42" WIDE GATES - SUPPLIED BY OWNER
117	PROPOSED TRACK OUTLINE FOR REFERENCE ONLY / MOVEABLE CRASH RAILING WITH INTEGRATED LIGHTING TO BE SUPPLIED BY OWNER
118	HELMET RACK LOCATION. COORDINATE WITH OWNER.
119	PROVIDE AIR COMPRESSOR OUTLET THIS AREA. COORDINATE WITH OWNER AND ELECTRICAL.
120	PROVIDE OUTLETS FOR TRICKLE CHARGERS. COORDINATE WITH OWNER AND ELECTRICAL.
121	PROVIDE OUTLETS FOR VACUUM CLEANERS AT TRACK ONE LOCATED IN THE PIT AREA, AND ONE ON THE OPPOSITE WALL. COORDINATE WITH OWNER AND ELECTRICAL.
122	FREESTANDING PHOTO OPPORTUNITY SCULPTURE, BY OWNER

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#	Revisions:	
1	City Comments	08-18-2022

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

FLOOR PLANS

A-101

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

CEILING LEGEND

ACT1	ACOUSTICAL CEILING TILE (2' x 2') ARMSTRONG ULTIMA BEVELED TEGULAR 9/16 GRID
ACT2	ACOUSTICAL CEILING TILE (2' x 2') ARMSTRONG CIRRUS SQUARE EDGE 15/16 GRID
ACT3	ACOUSTICAL CEILING TILE (2' x 2') ARMSTRONG KITCHEN ZONE 15/16 GRID
GCB1	5/8" GYPSUM CEILING BOARD PAINT PER FINISH SCHEDULE

○ KEYNOTES

150	EXPOSED STRUCTURE - UNFINISHED
151	EXPOSED STRUCTURE - PAINTED, RE: FINISH PLAN & SCHEDULE
152	ACM PANEL SOFFIT TRIM, RE: WALL SECTIONS
153	EXTERIOR CANOPY, RE: EXTERIOR ELEVATIONS
154	CONTINUOUS LIGHT COVE, RE: ELECTRICAL
155	ROOF LADDER AND ACCESS HATCH

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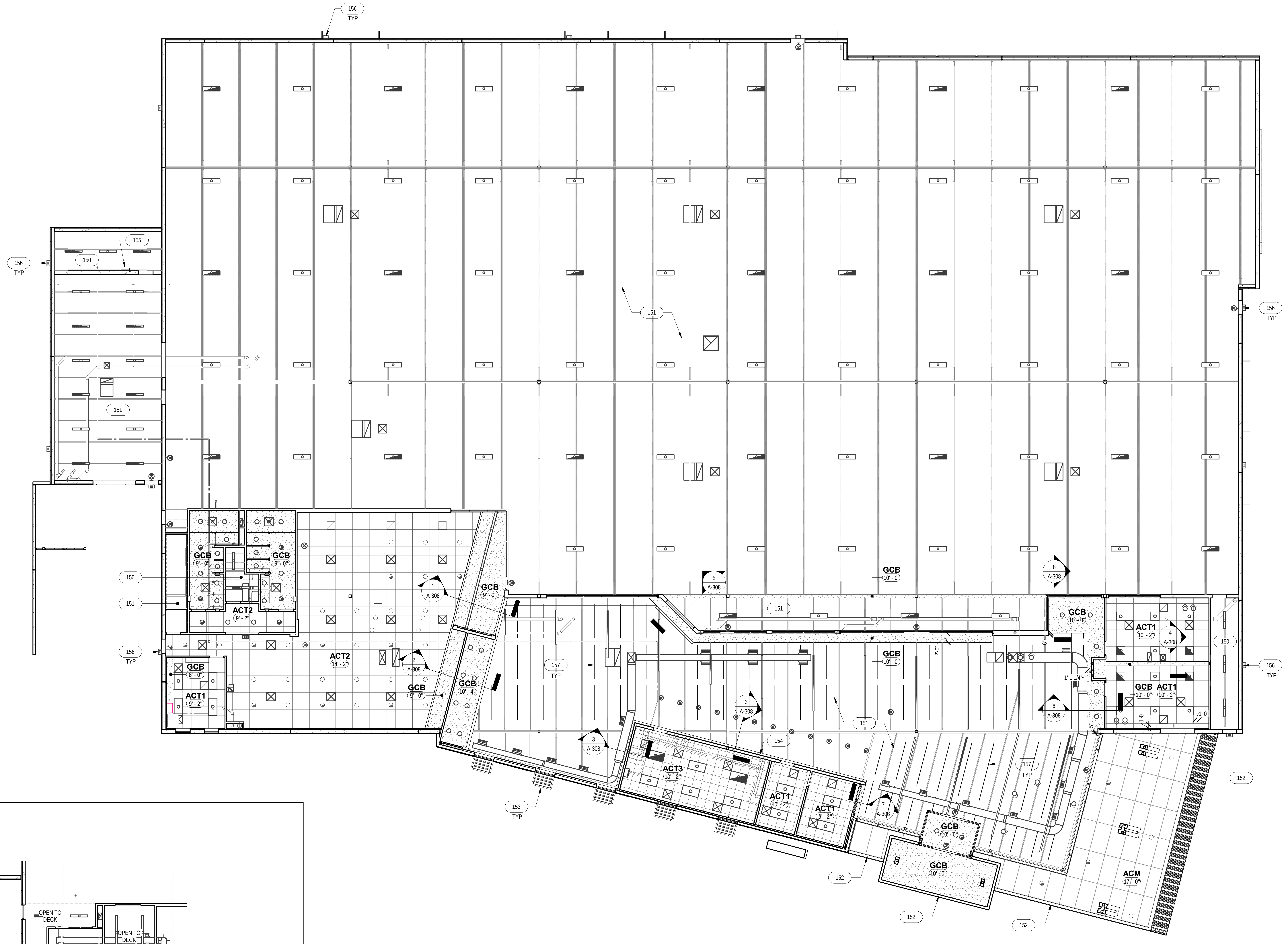
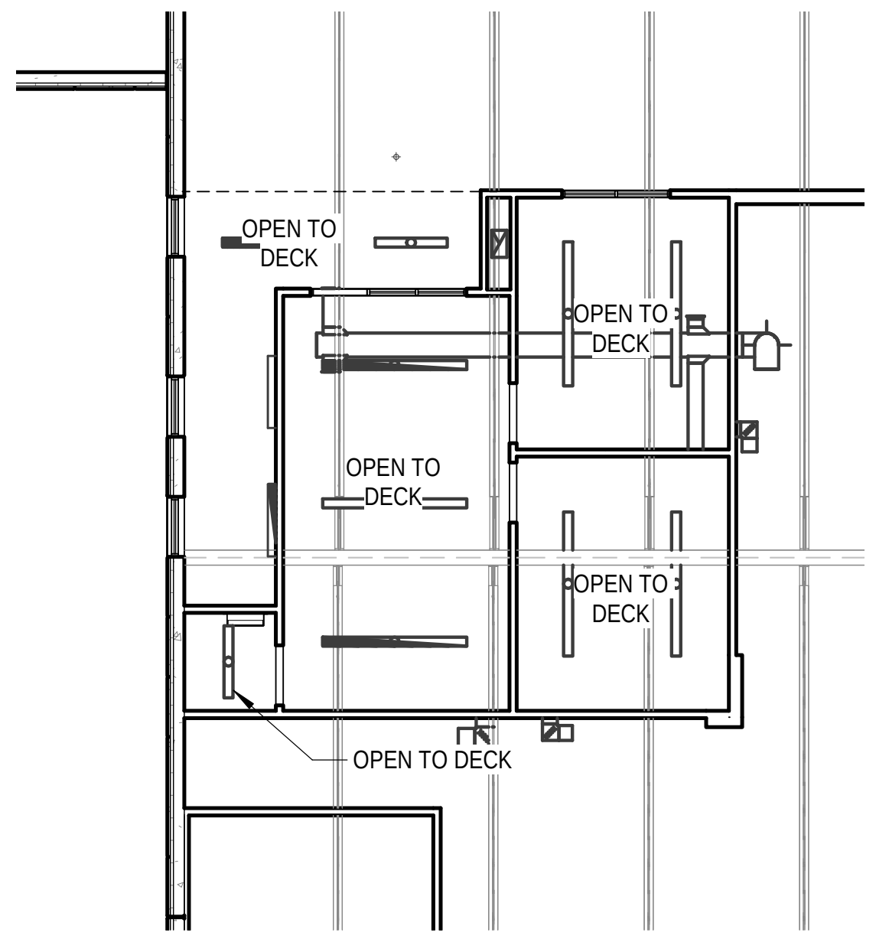


Ceiling Plan - First Floor 1
3/32" = 1'-0"



Ceiling Plan - Second Floor 2
3/32" = 1'-0"

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Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

CEILING PLANS

A-102

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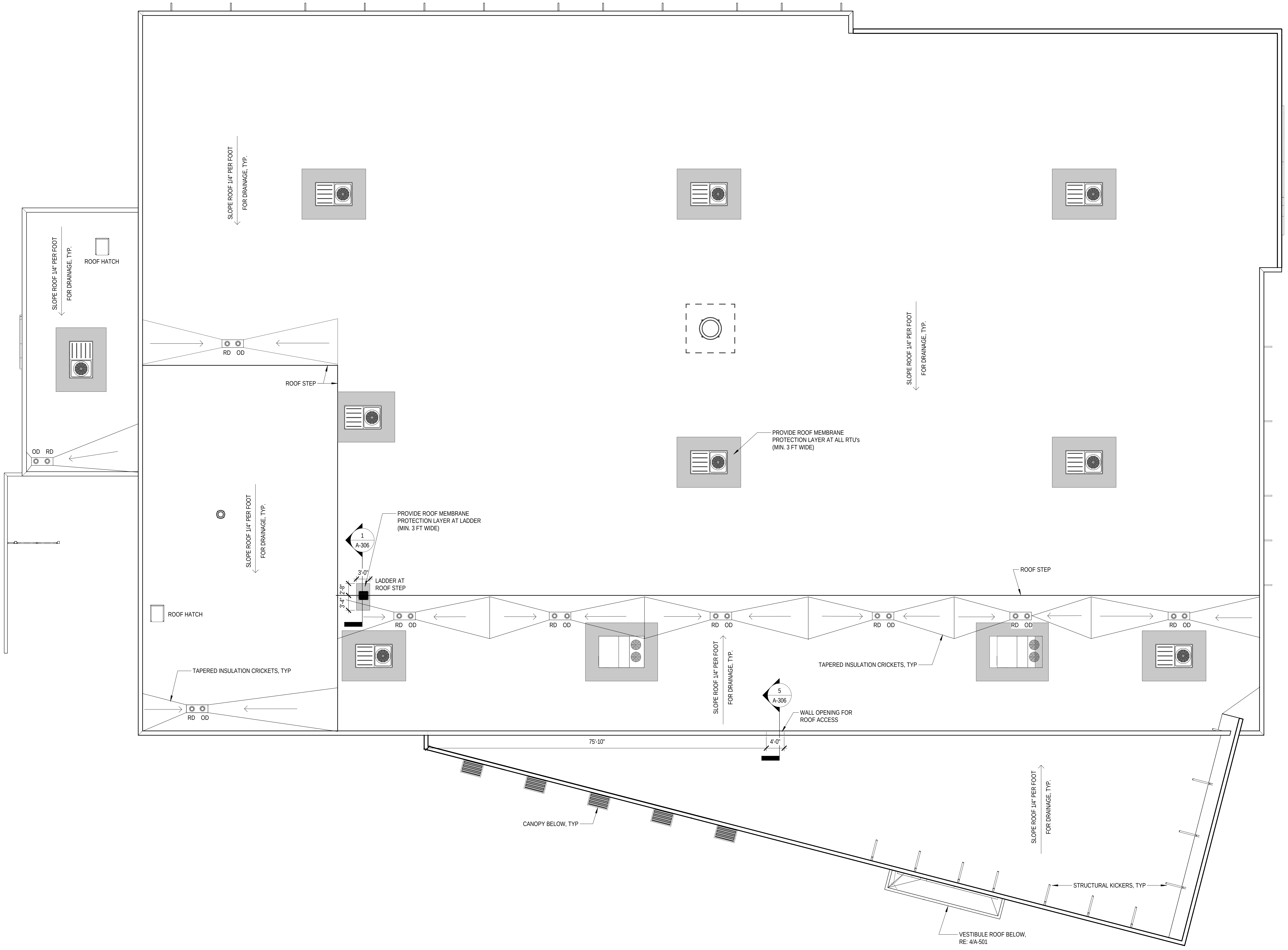
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

ROOF:

TPO MEMBRANE ROOF SYSTEM OVER RIGID INSULATION ON METAL DECK
(R VALUE = R-30 MIN, TYPICAL ALL ROOFS)


SLOPE ROOF 1/4" PER FOOT FOR DRAINAGE, TYP.
ROOF HATCH
RD OD
ROOF STEP
PROVIDE ROOF MEMBRANE PROTECTION LAYER AT ALL RTU's (MIN. 3 FT WIDE)
PROVIDE ROOF MEMBRANE PROTECTION LAYER AT LADDER (MIN. 3 FT WIDE)
1
A-306
3'-0"
2'-8"
3'-4"
LADDER AT ROOF STEP
TAPERED INSULATION CRICKETS, TYP
5
A-306
WALL OPENING FOR ROOF ACCESS
75'-10"
4'-0"
CANOPY BELOW, TYP
STRUCTURAL KICKERS, TYP
VESTIBULE ROOF BELOW, RE: 4/A-501

Roof Plan 1
3/32" = 1'-0"

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△# Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

ROOF PLAN

A-103

RELEASED FOR CONSTRUCTION
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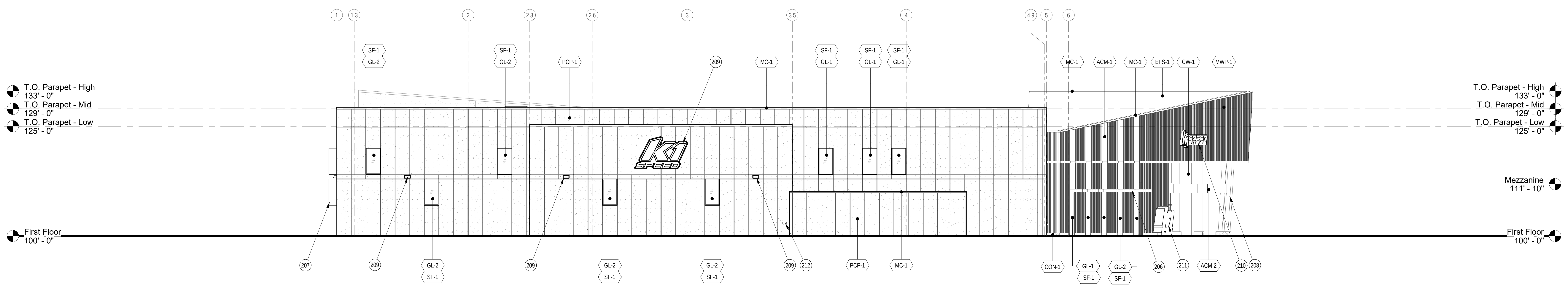
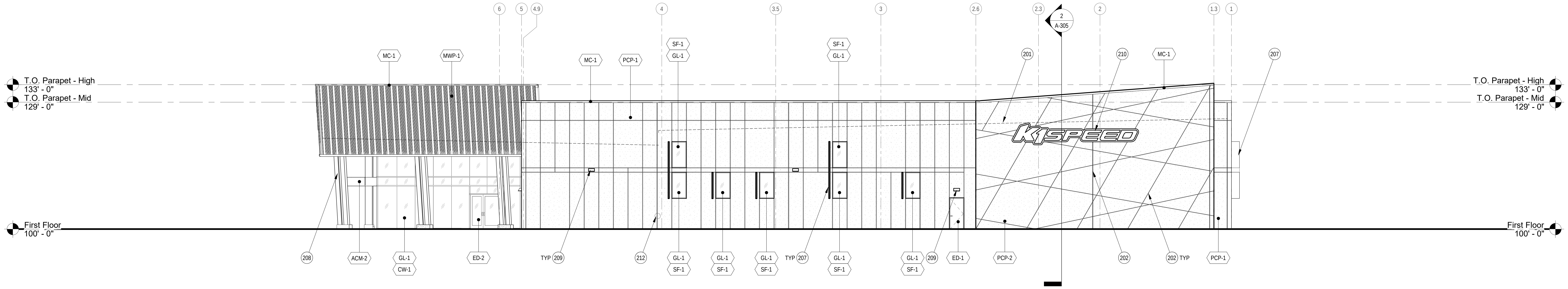
Development Services Department
Lee's Summit, Missouri
09/20/2022



Exterior Elevation - North

3/32" = 1'-0"

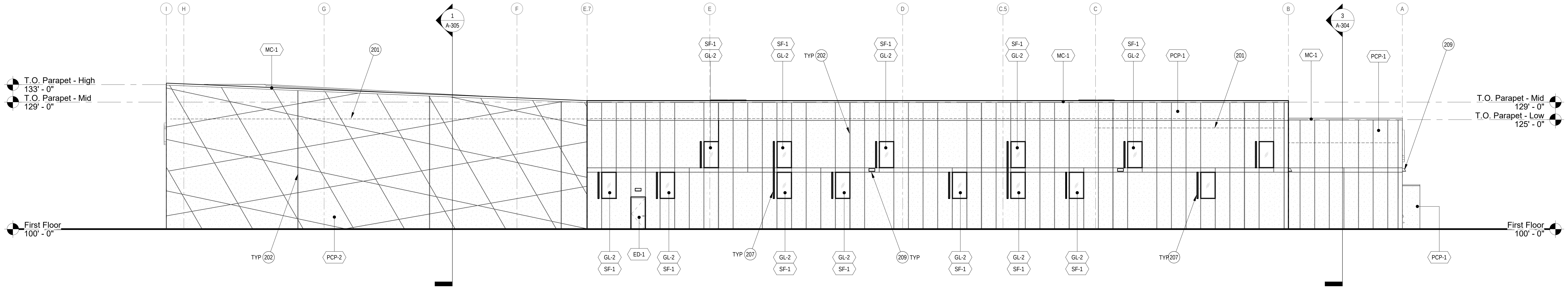
4



Exterior Elevation - South

3/32" = 1'-0"

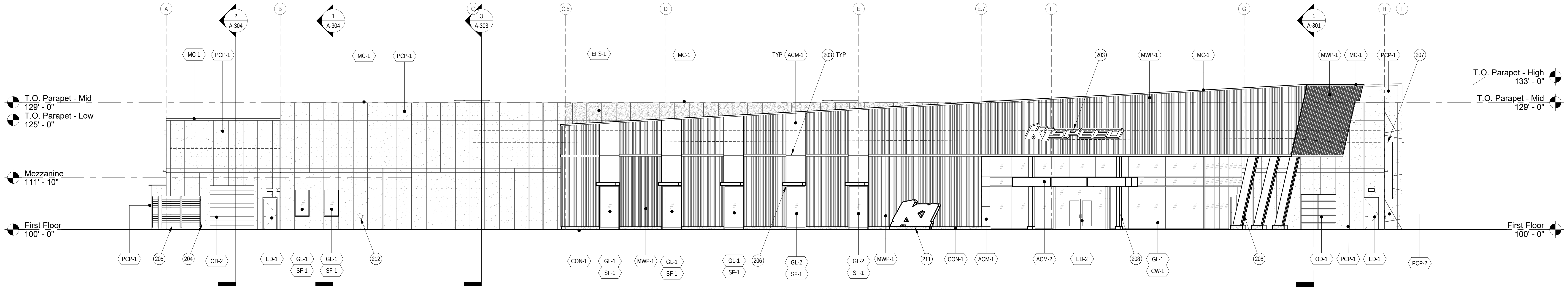
3



Exterior Elevation - East

3/32" = 1'-0"

2



Exterior Elevation - West

3/32" = 1'-0"

1

MATERIALS

ACM-1	ALUMINUM COMPOSITE METAL WALL PANEL MANUFACTURER: ALPOLIC COLOR: OER RED
ACM-2	ALUMINUM COMPOSITE METAL WALL PANEL MANUFACTURER: ALPOLIC COLOR: BSX SILVER
CON-1	EXPOSED CAST-IN-PLACE CONCRETE CURB WITH TEXTURED ACRYLIC FINISH COLOR: TBD MATCH TILT-UP CONCRETE PANEL
CW-1	ALUMINUM CURTAINWALL SYSTEM WITH LOW-E GLAZING MANUFACTURER: KAWNEER MODEL: 1600 SYSTEM 1 COLOR: CLEAR ANODIZED
ED-1	FLUSH HOLLOW CORE STEEL DOOR WITH HIGH PERFORMANCE COATING COLOR: TBD -SEE DOOR SCHEDULE
ED-2	ALUMINUM/GLASS STOREFRONT DOOR(S) MANUFACTURER: KAWNEER MODEL: WIDE STILE COLOR: CLEAR ANODIZED
EFS-1	EXTERIOR INSULATED FINISH SYSTEM - WALL MANUFACTURER: STO CORPORATION MODEL: STOTHERM CI LOTUSAN COLOR: MATCH FIELD COLOR OF PCP-1 FINISH: FINE
GL-1	CLEAR INSULATED LOW-E GLAZING
GL-2	TRANSCLUCENT INSULATED LOW-E GLAZING
MC-1	PRE-FINISHED METAL COPING ASSEMBLY MANUFACTURER: BERRIDGE COLOR: LEAD-COTE
MWP-1	PRE-FINISHED PROFILE METAL WALL PANEL SYSTEM MANUFACTURER: CENTRIA MODEL: CS-210, CS-220, CS-260 COLOR: 9960 XL MEDIUM GRAY
OD-1	ALUMINUM FRAME GLASS OVERHEAD DOOR COLOR: CLEAR ANODIZED SEE DOOR SCHEDULE - OGPA
OD-2	INSULATED COILING STEEL OVERHEAD DOOR COLOR: MATCH EXTERIOR MAN DOORS SEE DOOR SCHEDULE - OFCS
PCP-1	
PCP-2	
SF-1	ALUMINUM STOREFRONT SYSTEM WITH LOW-E GLAZING MANUFACTURER: KAWNEER MODEL: TRI-FAB VERSAGLAZE 451-T COLOR: CLEAR ANODIZED

KEYNOTES

201	LINE OF ROOF BEYOND
202	TILT-UP CONCRETE PANEL JOINT WITH SEALANT COLOR: TBD
203	ACM PANEL JOINT REVEAL
204	6" HD GALVANIZED CONCRETE FILLED STEEL PIPE BOLLARD WITH HP COATING COLOR: TBD
205	TRASH ENCLOSURE GATE - PRE-FINISHED METAL PANEL IN HD GALVANIZED STEEL FRAME WITH HIGH PERFORMANCE COATING COLOR: TBD
206	PRE-FINISHED OPEN LOUVER ALUMINUM CANOPY SYSTEM MANUFACTURER: MAPES MODEL: SUPERSHADE COLOR: CLEAR ANODIZED
207	CUSTOM PREFINISHED ALUMINUM VERTICAL SUNSHADE SYSTEM WITH HIGH PERFORMANCE COATING COLOR: MATCH ALPOLIC OER RED RE: 4/A-306
208	STRUCTURAL STEEL COLUMNS WITH ALUMINUM COMPOSITE PANEL COLUMN WRAP MANUFACTURER: ALPOLIC COLOR: MATCH 9960 XL MEDIUM GRAY
209	WALL-MOUNTED EXTERIOR LIGHTING RE: ELECTRICAL
210	INTERNALLY ILLUMINATED BUILDING MOUNTED SIGNAGE, BY OWNER
211	FREESTANDING PHOTO OPPORTUNITY SCULPTURE, BY OWNER
212	ROOF DRAIN OVERFLOW DISCHARGE

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CONSTRUCTION DOCUMENTS

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EXTERIOR ELEVATIONS

A-201

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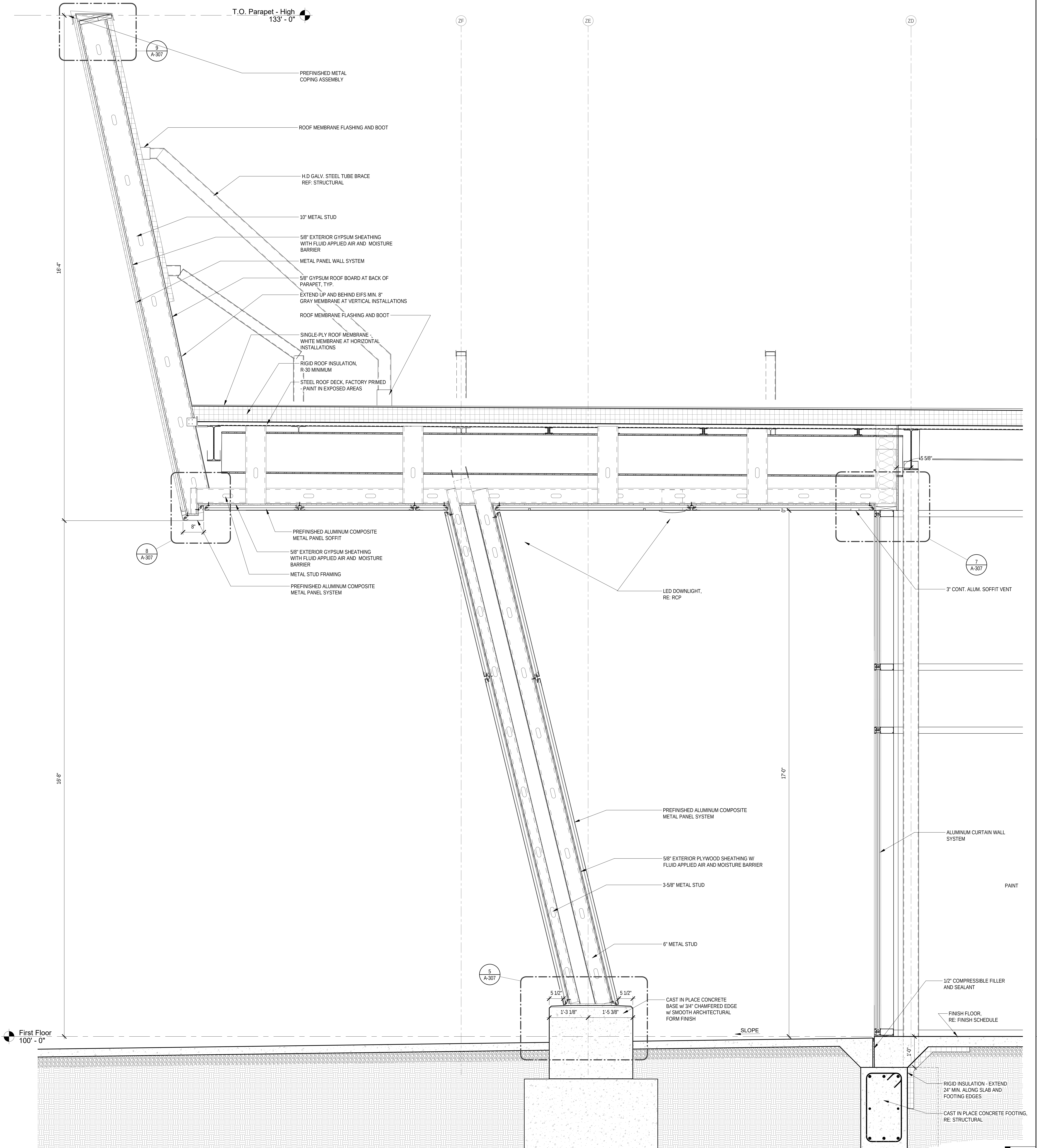
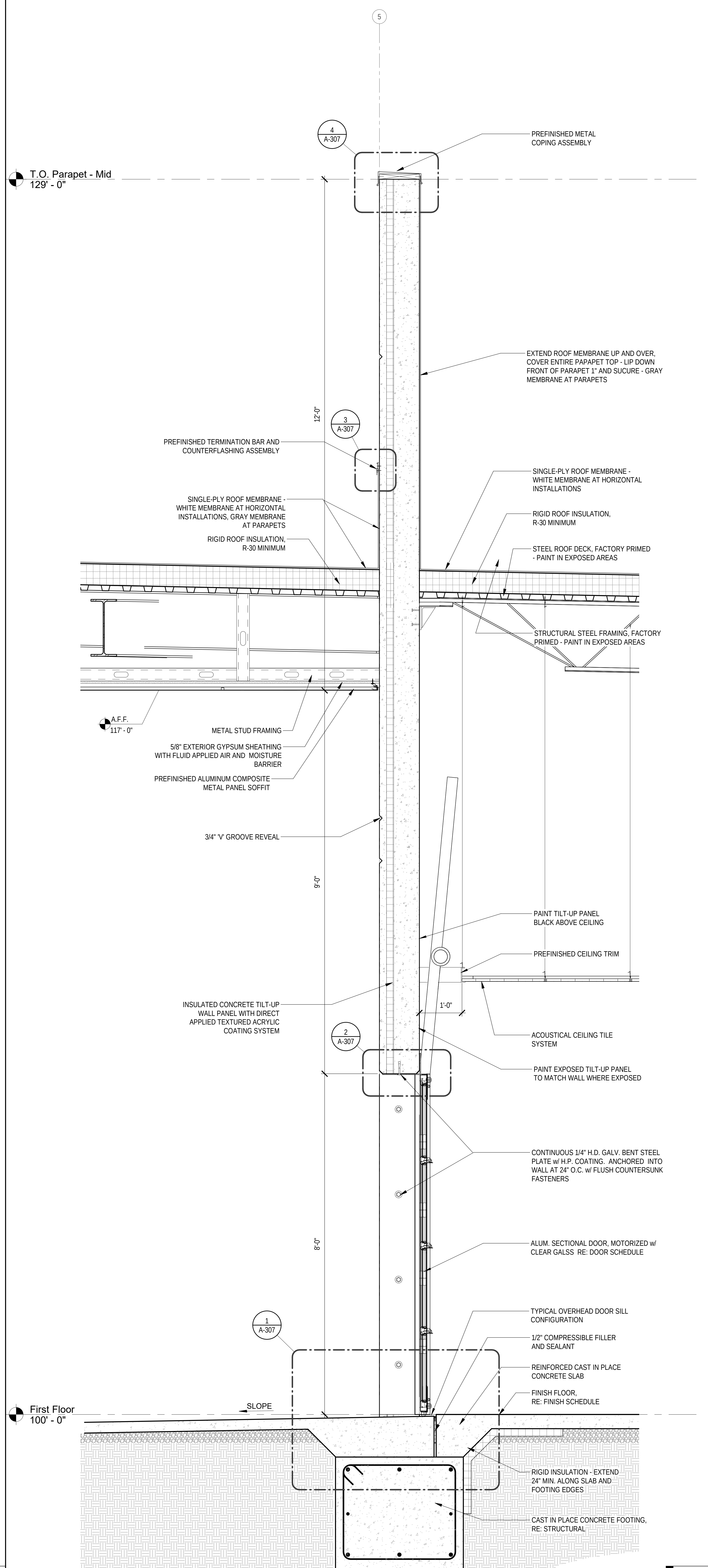

T.O. Parapet - High
133' - 0"
ZF
ZE
ZD
9
A-307
PREFINISHED METAL COPING ASSEMBLY
ROOF MEMBRANE FLASHING AND BOOT
H.D GALV. STEEL TUBE BRACE REF: STRUCTURAL
10" METAL STUD
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL PANEL WALL SYSTEM
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
EXTEND UP AND BEHIND EIFS MIN. 8" GRAY MEMBRANE AT VERTICAL INSTALLATIONS
ROOF MEMBRANE FLASHING AND BOOT
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
16'-4"
5 5/8"
8"
8
A-307
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SOFFIT
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL STUD FRAMING
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
LED DOWNLIGHT, RE: RCP
7
A-307
3" CONT. ALUM. SOFFIT VENT
16'-8"
17'-0"
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
ALUMINUM CURTAIN WALL SYSTEM
5/8" EXTERIOR PLYWOOD SHEATHING W/ FLUID APPLIED AIR AND MOISTURE BARRIER
3-5/8" METAL STUD
PAINT
6" METAL STUD
5
A-307
5 1/2"
5 1/2"
1'-3 1/8"
1'-5 3/8"
CAST IN PLACE CONCRETE BASE w/ 3/4" CHAMFERED EDGE w/ SMOOTH ARCHITECTURAL FORM FINISH
1/2" COMPRESSIBLE FILLER AND SEALANT
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
1'-0"
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 2
3/4" = 1'-0"


5
4
A-307
PREFINISHED METAL COPING ASSEMBLY
T.O. Parapet - Mid
129' - 0"
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
12'-0"
3
A-307
PREFINISHED TERMINATION BAR AND COUNTERFLASHING ASSEMBLY
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS, GRAY MEMBRANE AT PARAPETS
RIGID ROOF INSULATION, R-30 MINIMUM
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
A.F.F.
117' - 0"
METAL STUD FRAMING
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SOFFIT
3/4" 'V' GROOVE REVEAL
9'-0"
PAINT TILT-UP PANEL BLACK ABOVE CEILING
PREFINISHED CEILING TRIM
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
1'-0"
ACOUSTICAL CEILING TILE SYSTEM
2
A-307
PAINT EXPOSED TILT-UP PANEL TO MATCH WALL WHERE EXPOSED
CONTINUOUS 1/4" H.D. GALV. BENT STEEL PLATE w/ H.P. COATING. ANCHORED INTO WALL AT 24" O.C. w/ FLUSH COUNTERSUNK FASTENERS
8'-0"
ALUM. SECTIONAL DOOR, MOTORIZED w/ CLEAR GALSS RE: DOOR SCHEDULE
1
A-307
TYPICAL OVERHEAD DOOR SILL CONFIGURATION
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 1
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

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WALL SECTIONS

A-301

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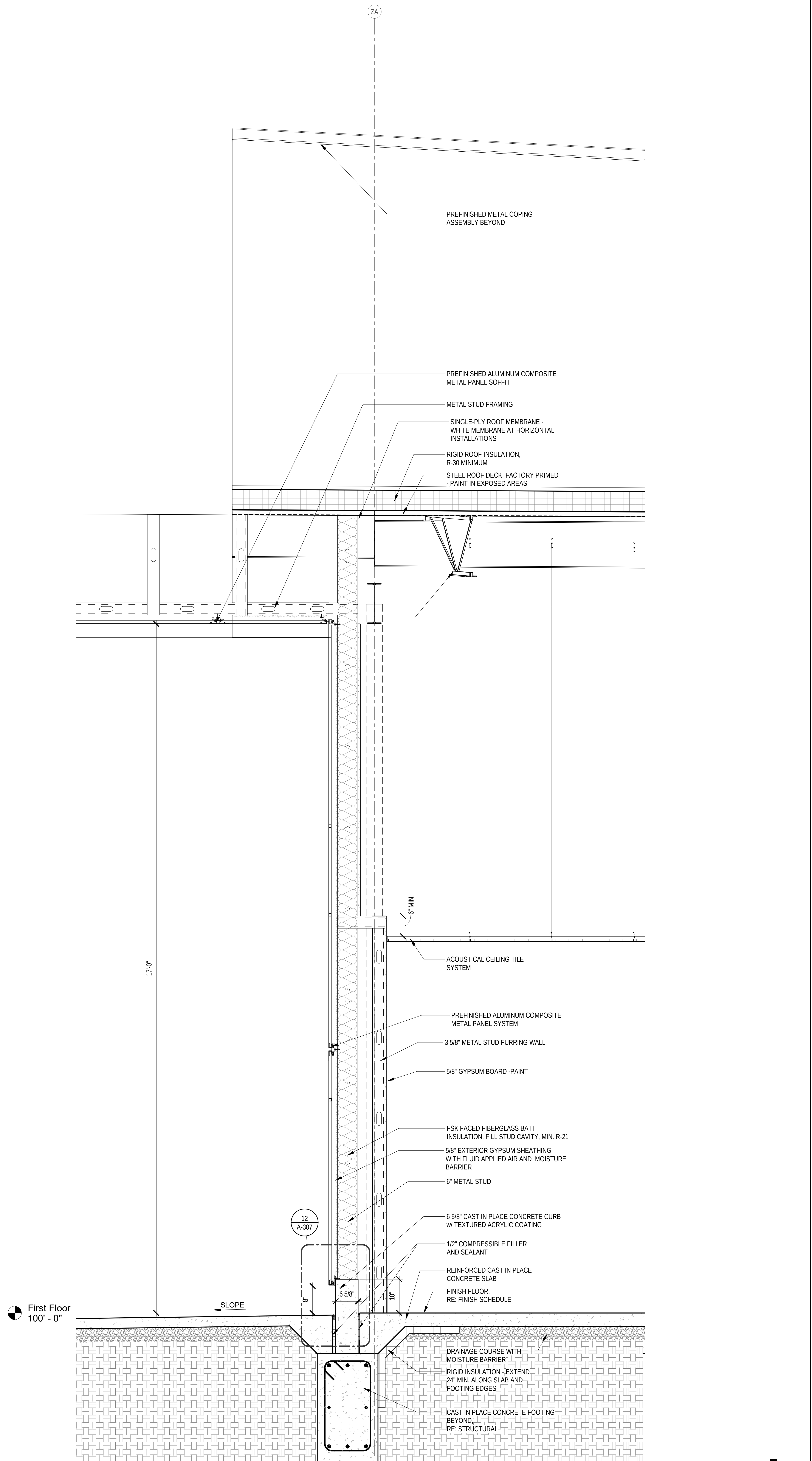
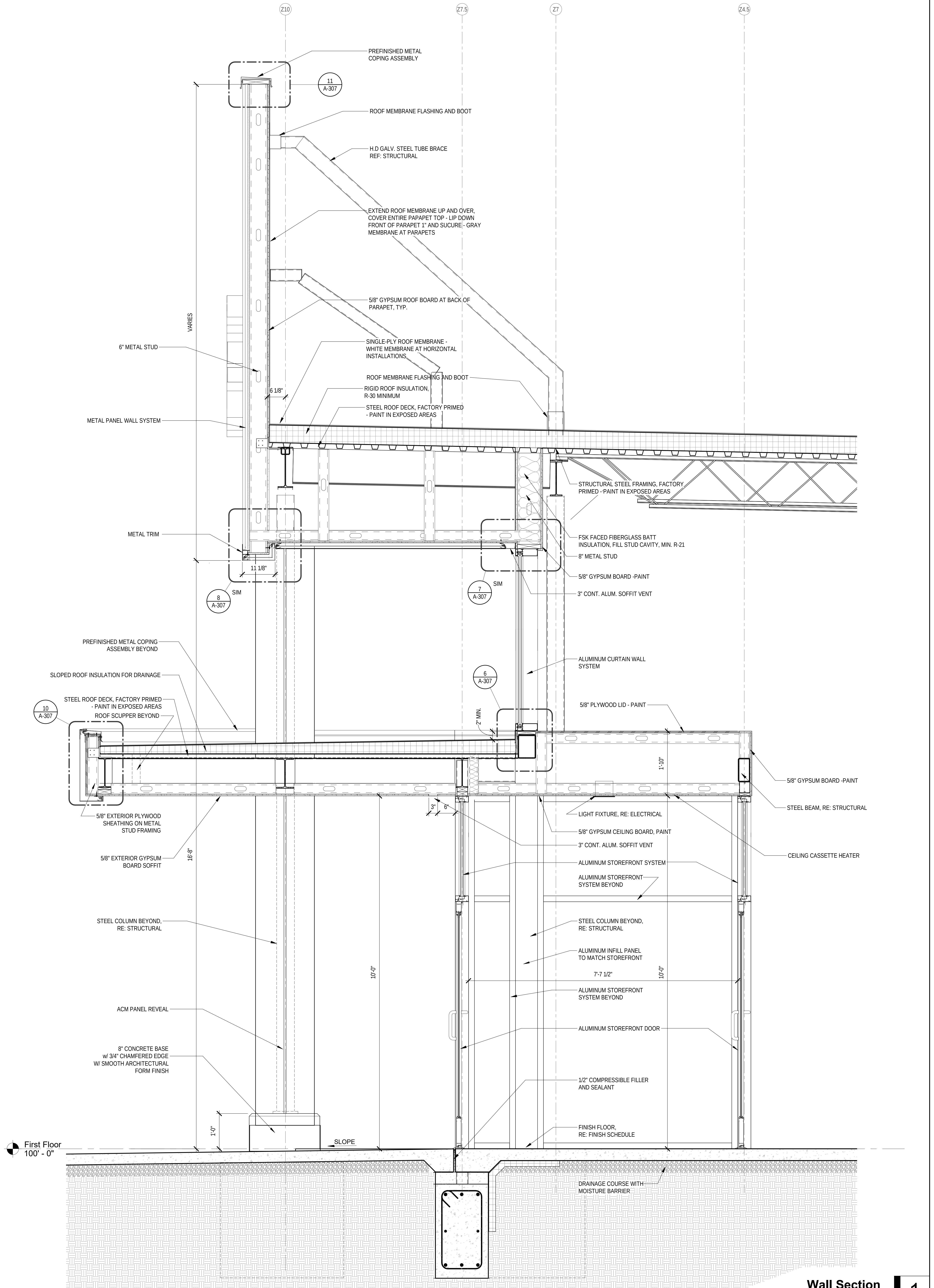

ZA
PREFINISHED METAL COPING ASSEMBLY BEYOND
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SOFFIT
METAL STUD FRAMING
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
6" MIN.
ACOUSTICAL CEILING TILE SYSTEM
17'-0"
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
3 5/8" METAL STUD FURRING WALL
5/8" GYPSUM BOARD -PAINT
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
6" METAL STUD
12
A-307
6 5/8" CAST IN PLACE CONCRETE CURB w/ TEXTURED ACRYLIC COATING
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
8"
6 5/8"
10"
First Floor
100' - 0"
SLOPE
DRAINAGE COURSE WITH MOISTURE BARRIER
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING BEYOND, RE: STRUCTURAL

Wall Section 2
3/4" = 1'-0"


Z10
Z7.5
Z7
Z4.5
PREFINISHED METAL COPING ASSEMBLY
11
A-307
ROOF MEMBRANE FLASHING AND BOOT
H.D GALV. STEEL TUBE BRACE REF: STRUCTURAL
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
VARIES
6" METAL STUD
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
ROOF MEMBRANE FLASHING AND BOOT
6 1/8"
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
METAL PANEL WALL SYSTEM
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
METAL TRIM
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
8" METAL STUD
11 1/8"
5/8" GYPSUM BOARD -PAINT
8
A-307
SIM
7
A-307
SIM
3" CONT. ALUM. SOFFIT VENT
PREFINISHED METAL COPING ASSEMBLY BEYOND
ALUMINUM CURTAIN WALL SYSTEM
SLOPED ROOF INSULATION FOR DRAINAGE
6
A-307
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
ROOF SCUPPER BEYOND
10
A-307
5/8" PLYWOOD LID - PAINT
2" MIN.
1'-10"
5/8" GYPSUM BOARD -PAINT
STEEL BEAM, RE: STRUCTURAL
5/8" EXTERIOR PLYWOOD SHEATHING ON METAL STUD FRAMING
3"
6"
LIGHT FIXTURE, RE: ELECTRICAL
5/8" GYPSUM CEILING BOARD, PAINT
3" CONT. ALUM. SOFFIT VENT
5/8" EXTERIOR GYPSUM BOARD SOFFIT
16'-8"
CEILING CASSETTE HEATER
ALUMINUM STOREFRONT SYSTEM
ALUMINUM STOREFRONT SYSTEM BEYOND
STEEL COLUMN BEYOND, RE: STRUCTURAL
STEEL COLUMN BEYOND, RE: STRUCTURAL
10'-0"
ALUMINUM INFILL PANEL TO MATCH STOREFRONT
7'-7 1/2"
10'-0"
ALUMINUM STOREFRONT SYSTEM BEYOND
ACM PANEL REVEAL
ALUMINUM STOREFRONT DOOR
8" CONCRETE BASE w/ 3/4" CHAMFERED EDGE W/ SMOOTH ARCHITECTURAL FORM FINISH
1/2" COMPRESSIBLE FILLER AND SEALANT
1'-0"
First Floor
100' - 0"
SLOPE
FINISH FLOOR, RE: FINISH SCHEDULE
DRAINAGE COURSE WITH MOISTURE BARRIER

Wall Section 1
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

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WALL SECTIONS

A-302

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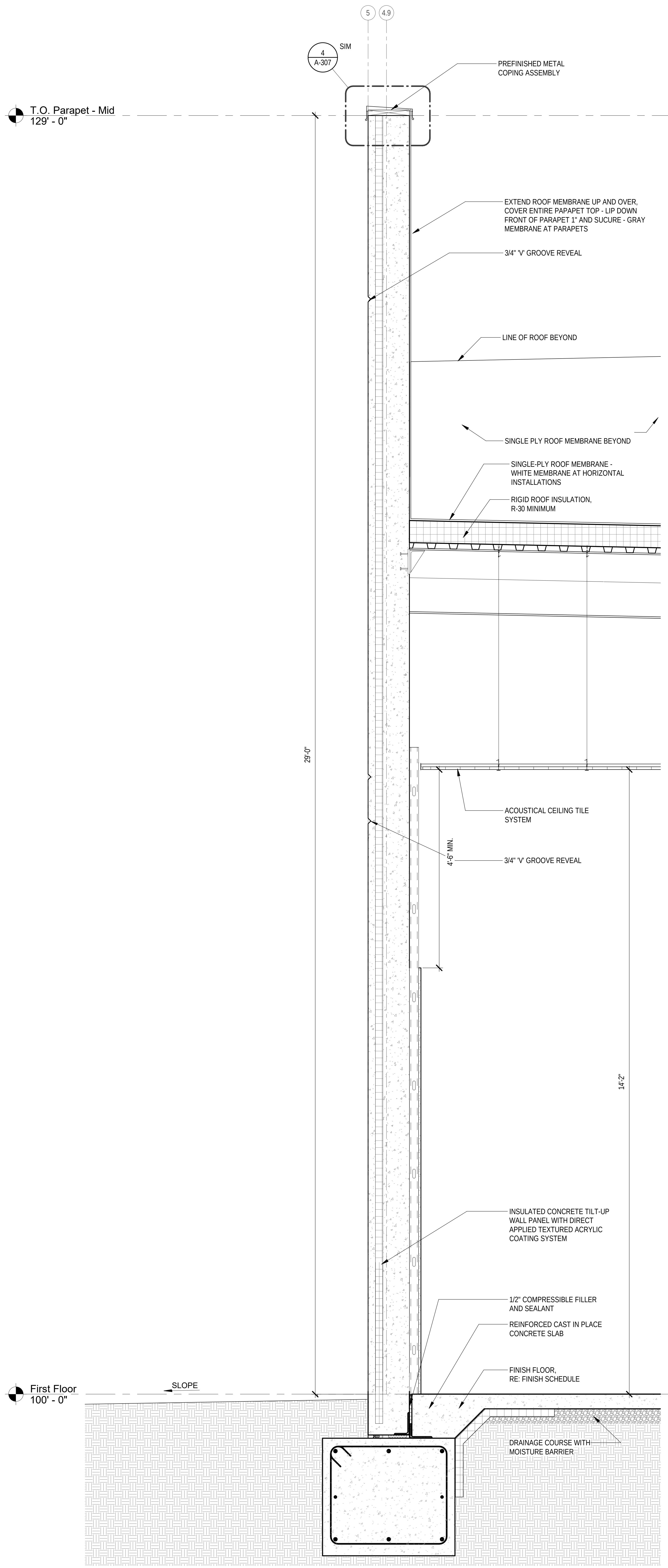
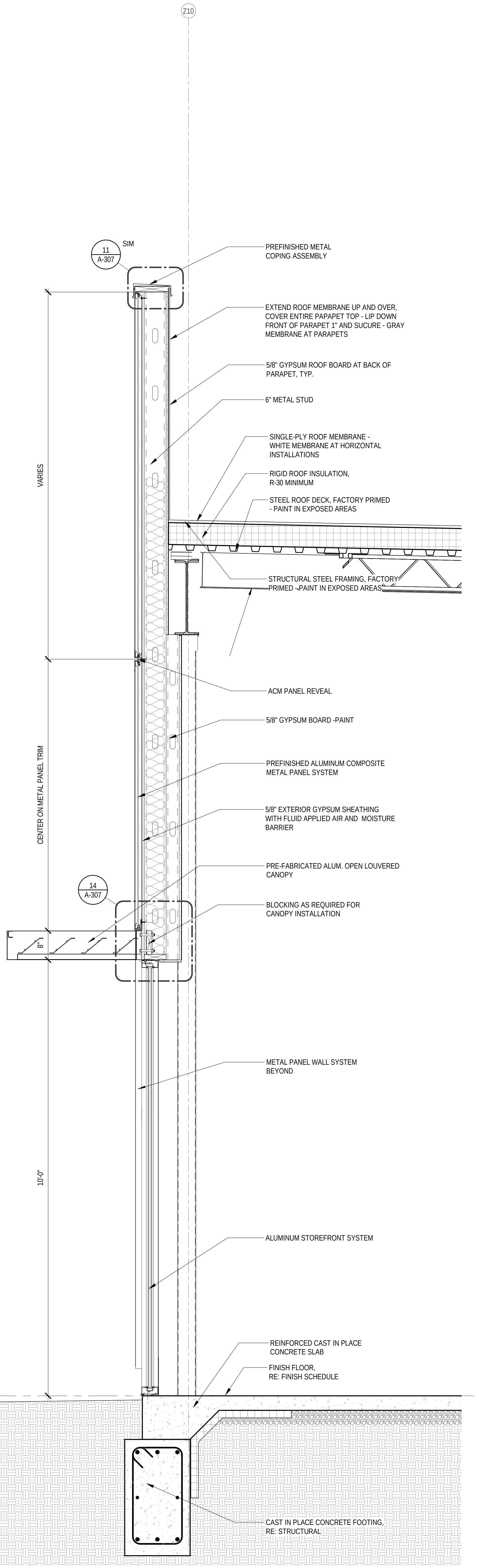
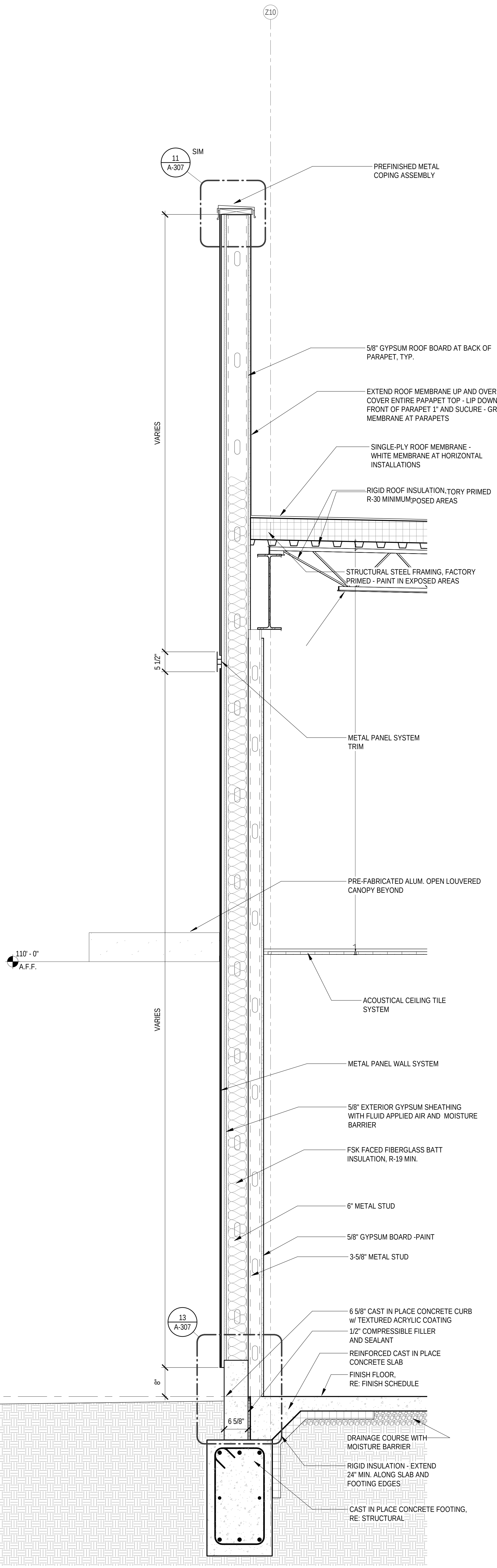

5
4.9
4
A-307
SIM
T.O. Parapet - Mid
129' - 0"
PREFINISHED METAL COPING ASSEMBLY
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
3/4" 'V' GROOVE REVEAL
LINE OF ROOF BEYOND
SINGLE PLY ROOF MEMBRANE BEYOND
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
29'-0"
ACOUSTICAL CEILING TILE SYSTEM
4'-6" MIN.
3/4" 'V' GROOVE REVEAL
14'-2"
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
DRAINAGE COURSE WITH MOISTURE BARRIER

Wall Section 3
3/4" = 1'-0"


Z10
11
A-307
SIM
PREFINISHED METAL COPING ASSEMBLY
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
6" METAL STUD
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
VARIES
ACM PANEL REVEAL
5/8" GYPSUM BOARD -PAINT
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
CENTER ON METAL PANEL TRIM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PRE-FABRICATED ALUM. OPEN LOUVERED CANOPY
14
A-307
BLOCKING AS REQUIRED FOR CANOPY INSTALLATION
8"
METAL PANEL WALL SYSTEM BEYOND
10'-0"
ALUMINUM STOREFRONT SYSTEM
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 2
3/4" = 1'-0"


Z10
11
A-307
SIM
PREFINISHED METAL COPING ASSEMBLY
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
VARIES
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
TORY PRIMED
POSED AREAS
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
5 1/2"
METAL PANEL SYSTEM TRIM
PRE-FABRICATED ALUM. OPEN LOUVERED CANOPY BEYOND
110' - 0"
A.F.F.
ACOUSTICAL CEILING TILE SYSTEM
VARIES
METAL PANEL WALL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
FSK FACED FIBERGLASS BATT INSULATION, R-19 MIN.
6" METAL STUD
5/8" GYPSUM BOARD -PAINT
3-5/8" METAL STUD
13
A-307
6 5/8" CAST IN PLACE CONCRETE CURB w/ TEXTURED ACRYLIC COATING
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
8"
First Floor
100' - 0"
6 5/8"
DRAINAGE COURSE WITH MOISTURE BARRIER
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 1
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

July 19, 2022

WALL SECTIONS

A-303

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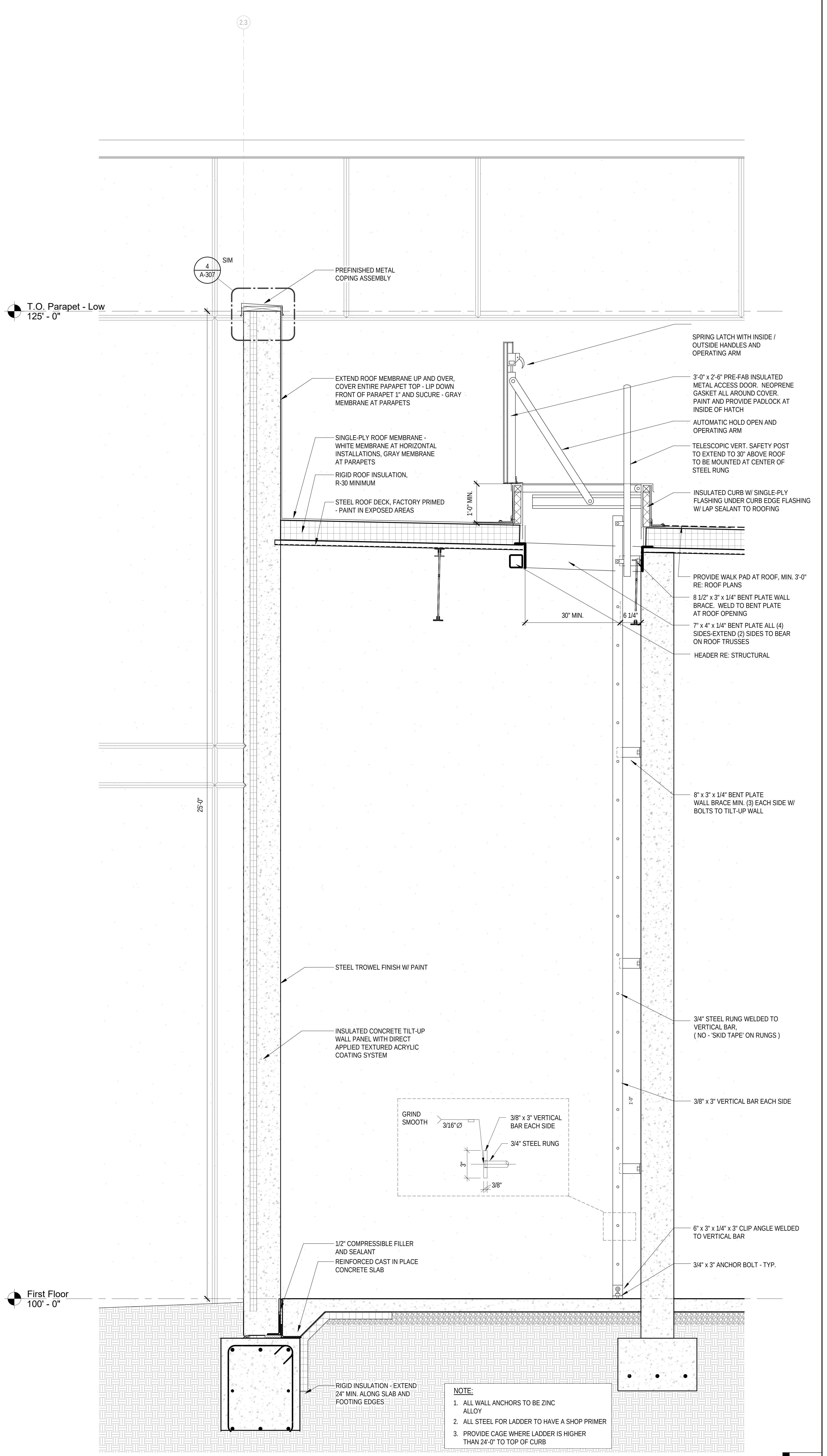
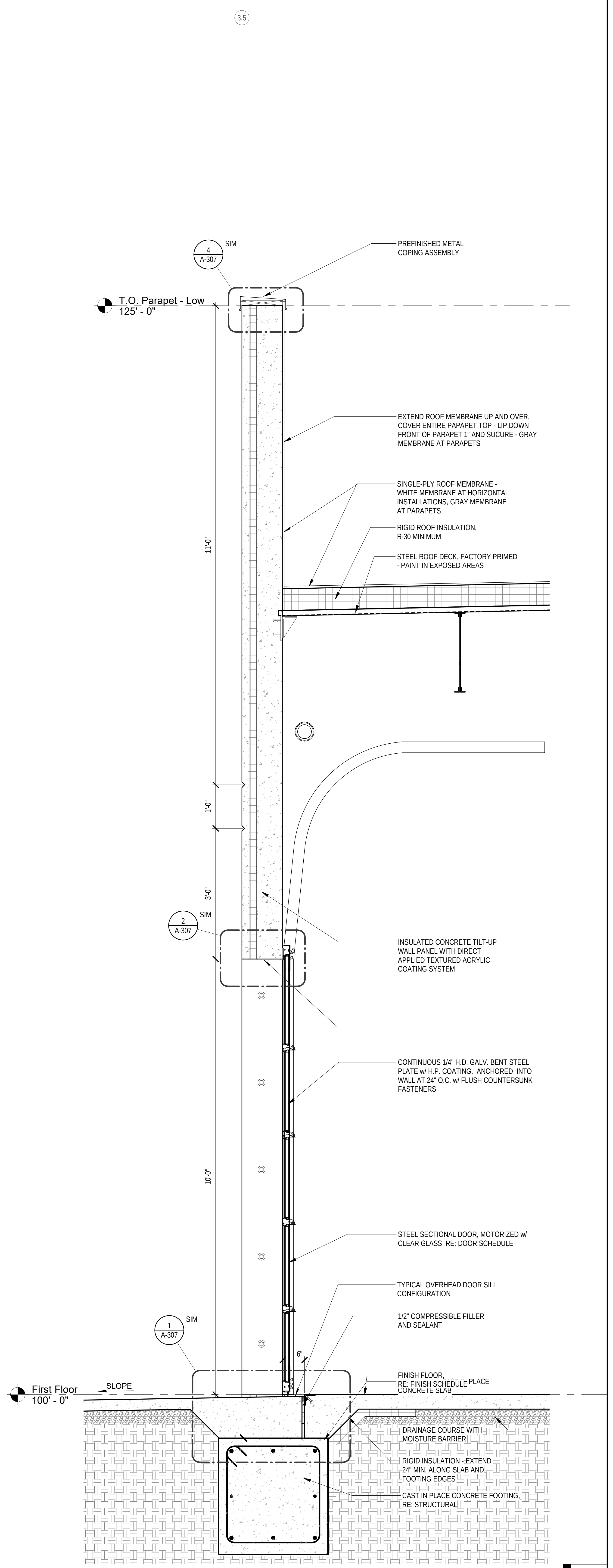
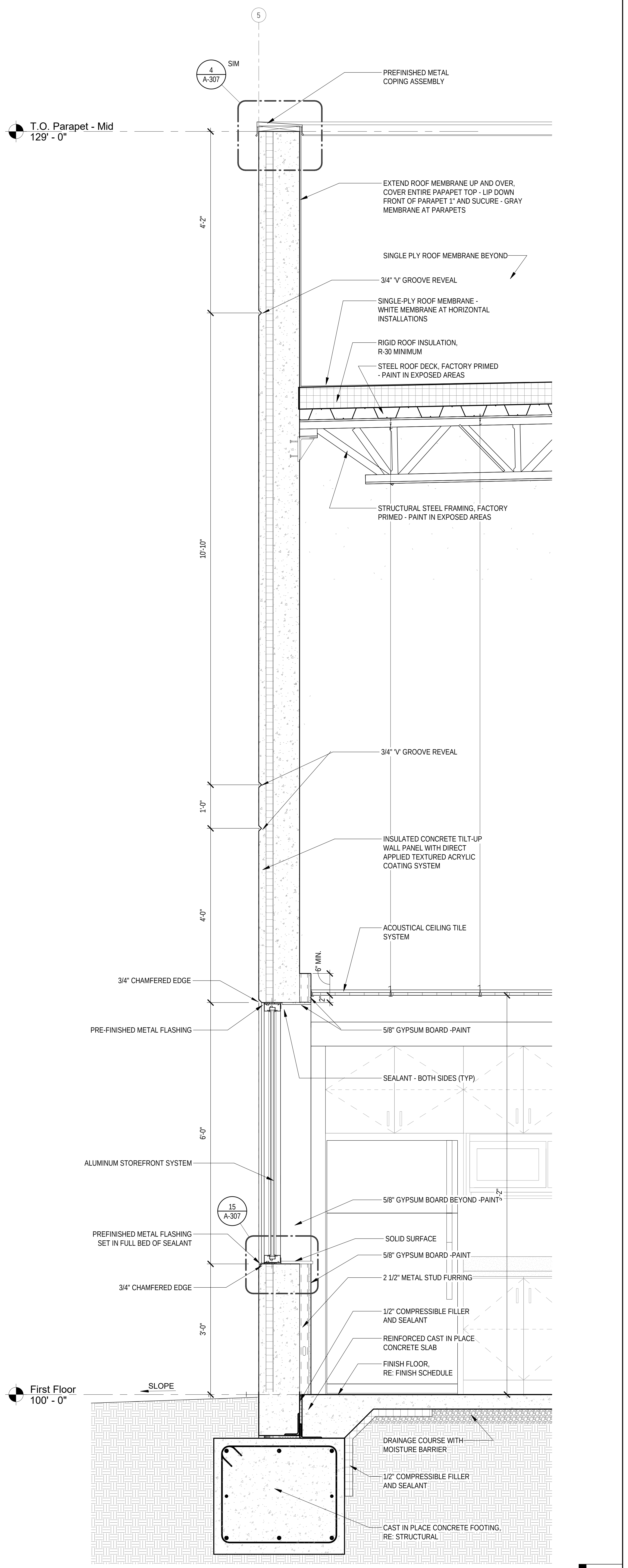

2.3
4
A-307
SIM
T.O. Parapet - Low
125' - 0"
PREFINISHED METAL COPING ASSEMBLY
SPRING LATCH WITH INSIDE / OUTSIDE HANDLES AND OPERATING ARM
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
3'-0" x 2'-6" PRE-FAB INSULATED METAL ACCESS DOOR. NEOPRENE GASKET ALL AROUND COVER. PAINT AND PROVIDE PADLOCK AT INSIDE OF HATCH
AUTOMATIC HOLD OPEN AND OPERATING ARM
TELESCOPIC VERT. SAFETY POST TO EXTEND TO 30" ABOVE ROOF TO BE MOUNTED AT CENTER OF STEEL RUNG
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS, GRAY MEMBRANE AT PARAPETS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
1'-0" MIN.
INSULATED CURB W/ SINGLE-PLY FLASHING UNDER CURB EDGE FLASHING W/ LAP SEALANT TO ROOFING
PROVIDE WALK PAD AT ROOF, MIN. 3'-0" RE: ROOF PLANS
8 1/2" x 3" x 1/4" BENT PLATE WALL BRACE. WELD TO BENT PLATE AT ROOF OPENING
30" MIN.
6 1/4"
7" x 4" x 1/4" BENT PLATE ALL (4) SIDES-EXTEND (2) SIDES TO BEAR ON ROOF TRUSSES
HEADER RE: STRUCTURAL
25'-0"
8" x 3" x 1/4" BENT PLATE WALL BRACE MIN. (3) EACH SIDE W/ BOLTS TO TILT-UP WALL
STEEL TROWEL FINISH W/ PAINT
3/4" STEEL RUNG WELDED TO VERTICAL BAR, (NO - 'SKID TAPE' ON RUNGS)
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
1'-0"
3/8" x 3" VERTICAL BAR EACH SIDE
GRIND SMOOTH
3/16"∅
3/8" x 3" VERTICAL BAR EACH SIDE
3/4" STEEL RUNG
3"
3/8"
6" x 3" x 1/4" x 3" CLIP ANGLE WELDED TO VERTICAL BAR
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
3/4" x 3" ANCHOR BOLT - TYP.
First Floor
100' - 0"
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES

NOTE:
1. ALL WALL ANCHORS TO BE ZINC ALLOY
2. ALL STEEL FOR LADDER TO HAVE A SHOP PRIMER
3. PROVIDE CAGE WHERE LADDER IS HIGHER THAN 24'-0" TO TOP OF CURB

Wall Section 3
3/4" = 1'-0"


3.5
4
A-307
SIM
T.O. Parapet - Low
125' - 0"
PREFINISHED METAL COPING ASSEMBLY
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS, GRAY MEMBRANE AT PARAPETS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
11'-0"
1'-0"
3'-0"
2
A-307
SIM
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
CONTINUOUS 1/4" H.D. GALV. BENT STEEL PLATE w/ H.P. COATING. ANCHORED INTO WALL AT 24" O.C. w/ FLUSH COUNTERSUNK FASTENERS
10'-0"
STEEL SECTIONAL DOOR, MOTORIZED w/ CLEAR GLASS RE: DOOR SCHEDULE
TYPICAL OVERHEAD DOOR SILL CONFIGURATION
1
A-307
SIM
1/2" COMPRESSIBLE FILLER AND SEALANT
6"
First Floor
100' - 0"
SLOPE
FINISH FLOOR, RE: FINISH SCHEDULE
CAST IN PLACE CONCRETE SLAB
DRAINAGE COURSE WITH MOISTURE BARRIER
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 2
3/4" = 1'-0"


5
4
A-307
SIM
T.O. Parapet - Mid
129' - 0"
PREFINISHED METAL COPING ASSEMBLY
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
4'-2"
SINGLE PLY ROOF MEMBRANE BEYOND
3/4" 'V' GROOVE REVEAL
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
10'-10"
3/4" 'V' GROOVE REVEAL
1'-0"
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
4'-0"
ACOUSTICAL CEILING TILE SYSTEM
6" MIN.
2"
3/4" CHAMFERED EDGE
PRE-FINISHED METAL FLASHING
5/8" GYPSUM BOARD -PAINT
SEALANT - BOTH SIDES (TYP)
6'-0"
ALUMINUM STOREFRONT SYSTEM
3'-2"
15
A-307
5/8" GYPSUM BOARD BEYOND -PAINT
PREFINISHED METAL FLASHING SET IN FULL BED OF SEALANT
SOLID SURFACE
5/8" GYPSUM BOARD -PAINT
2 1/2" METAL STUD FURRING
3/4" CHAMFERED EDGE
3'-0"
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
DRAINAGE COURSE WITH MOISTURE BARRIER
1/2" COMPRESSIBLE FILLER AND SEALANT
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 1
3/4" = 1'-0"

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A-6386
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ARCHITECT
7.19.22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

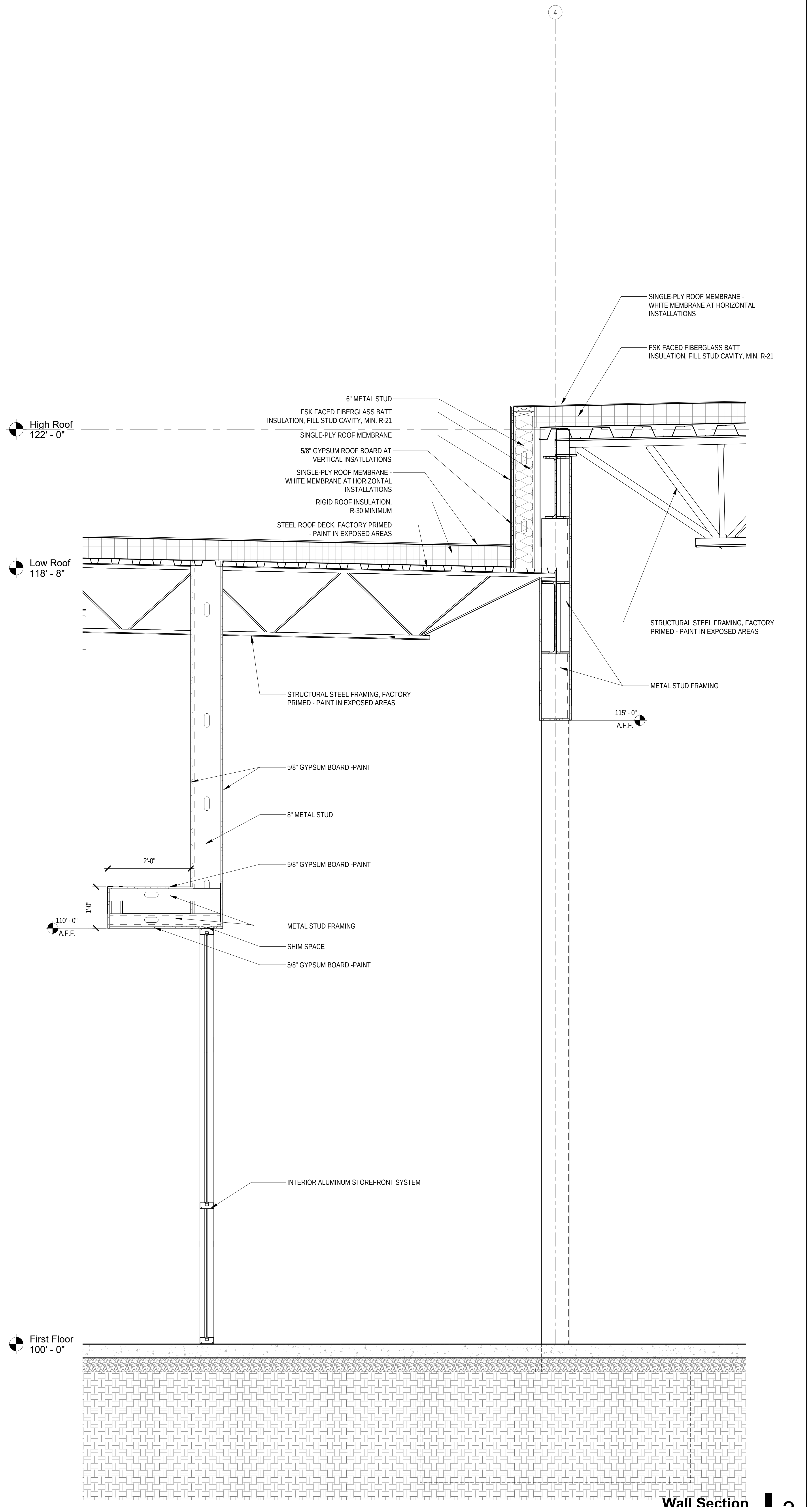
Project #:	211107

CONSTRUCTION DOCUMENTS

July 19, 2022

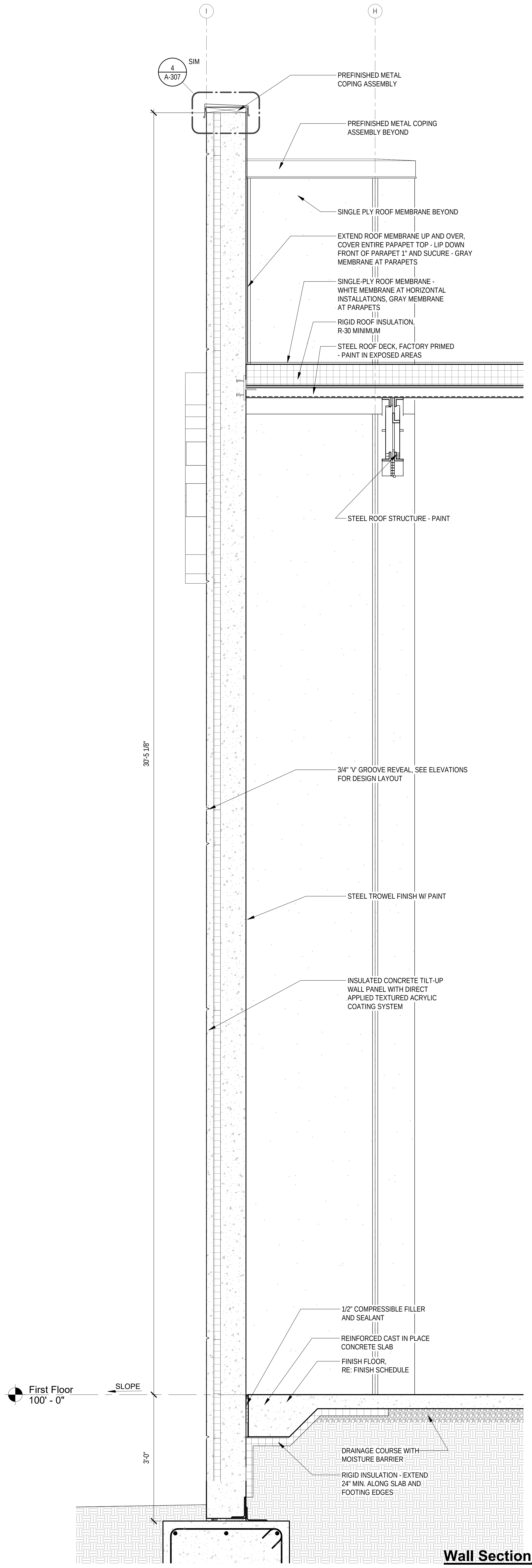
WALL SECTIONS

A-304


4
High Roof
122' - 0"
Low Roof
118' - 8"
First Floor
100' - 0"
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
6" METAL STUD
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
SINGLE-PLY ROOF MEMBRANE
5/8" GYPSUM ROOF BOARD AT VERTICAL INSATLLATIONS
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
METAL STUD FRAMING
115' - 0"
A.F.F.
STRUCTURAL STEEL FRAMING, FACTORY PRIMED - PAINT IN EXPOSED AREAS
5/8" GYPSUM BOARD -PAINT
8" METAL STUD
2'-0"
1'-0"
5/8" GYPSUM BOARD -PAINT
110' - 0"
A.F.F.
METAL STUD FRAMING
SHIM SPACE
5/8" GYPSUM BOARD -PAINT
INTERIOR ALUMINUM STOREFRONT SYSTEM

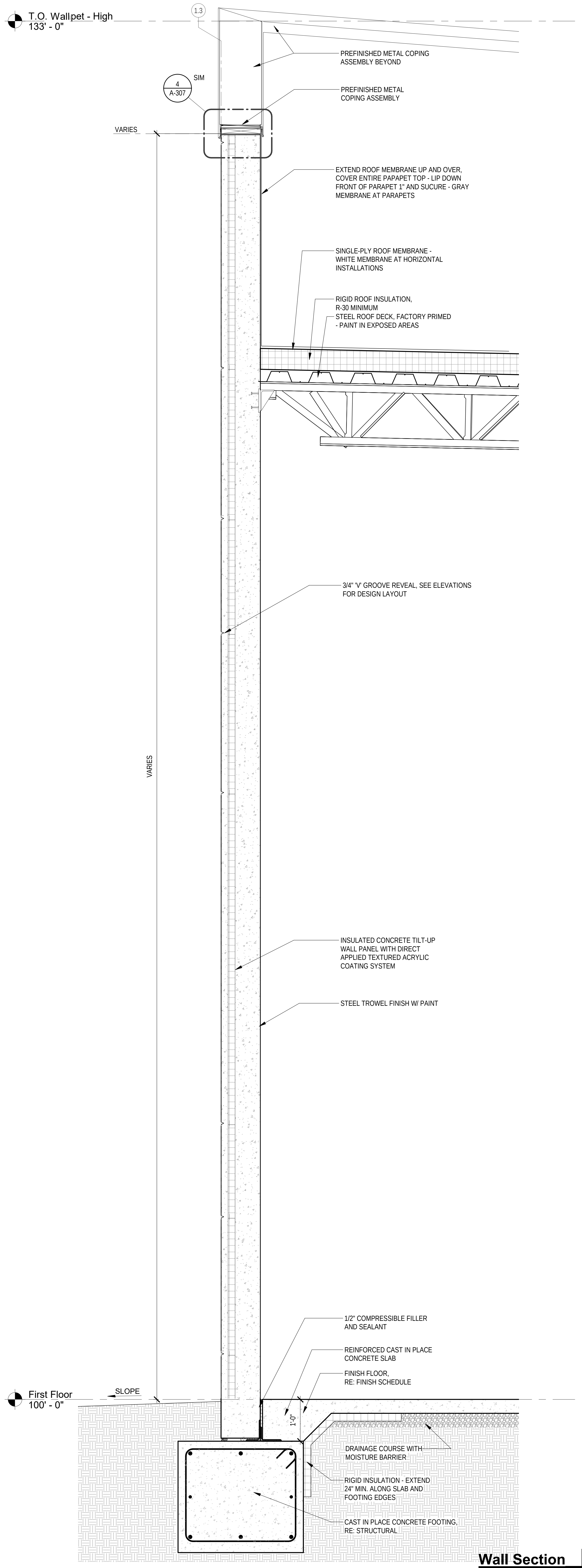
Wall Section 3

3/4" = 1'-0"


I
H
4
A-307
SIM
PREFINISHED METAL COPING ASSEMBLY
PREFINISHED METAL COPING ASSEMBLY BEYOND
SINGLE PLY ROOF MEMBRANE BEYOND
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS, GRAY MEMBRANE AT PARAPETS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
STEEL ROOF STRUCTURE - PAINT
30'-5 1/8"
3/4" "V" GROOVE REVEAL, SEE ELEVATIONS FOR DESIGN LAYOUT
STEEL TROWEL FINISH W/ PAINT
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
3'-0"
DRAINAGE COURSE WITH MOISTURE BARRIER
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES

Wall Section 2

3/4" = 1'-0"


T.O. Wallpet - High
133' - 0"
1.3
PREFINISHED METAL COPING ASSEMBLY BEYOND
4
A-307
SIM
PREFINISHED METAL COPING ASSEMBLY
VARIES
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
RIGID ROOF INSULATION, R-30 MINIMUM
STEEL ROOF DECK, FACTORY PRIMED - PAINT IN EXPOSED AREAS
3/4" "V" GROOVE REVEAL, SEE ELEVATIONS FOR DESIGN LAYOUT
VARIES
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
STEEL TROWEL FINISH W/ PAINT
1/2" COMPRESSIBLE FILLER AND SEALANT
REINFORCED CAST IN PLACE CONCRETE SLAB
FINISH FLOOR, RE: FINISH SCHEDULE
First Floor
100' - 0"
SLOPE
1'-0"
DRAINAGE COURSE WITH MOISTURE BARRIER
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Wall Section 1

3/4" = 1'-0"

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As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

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Lee's Summit, MO 64064

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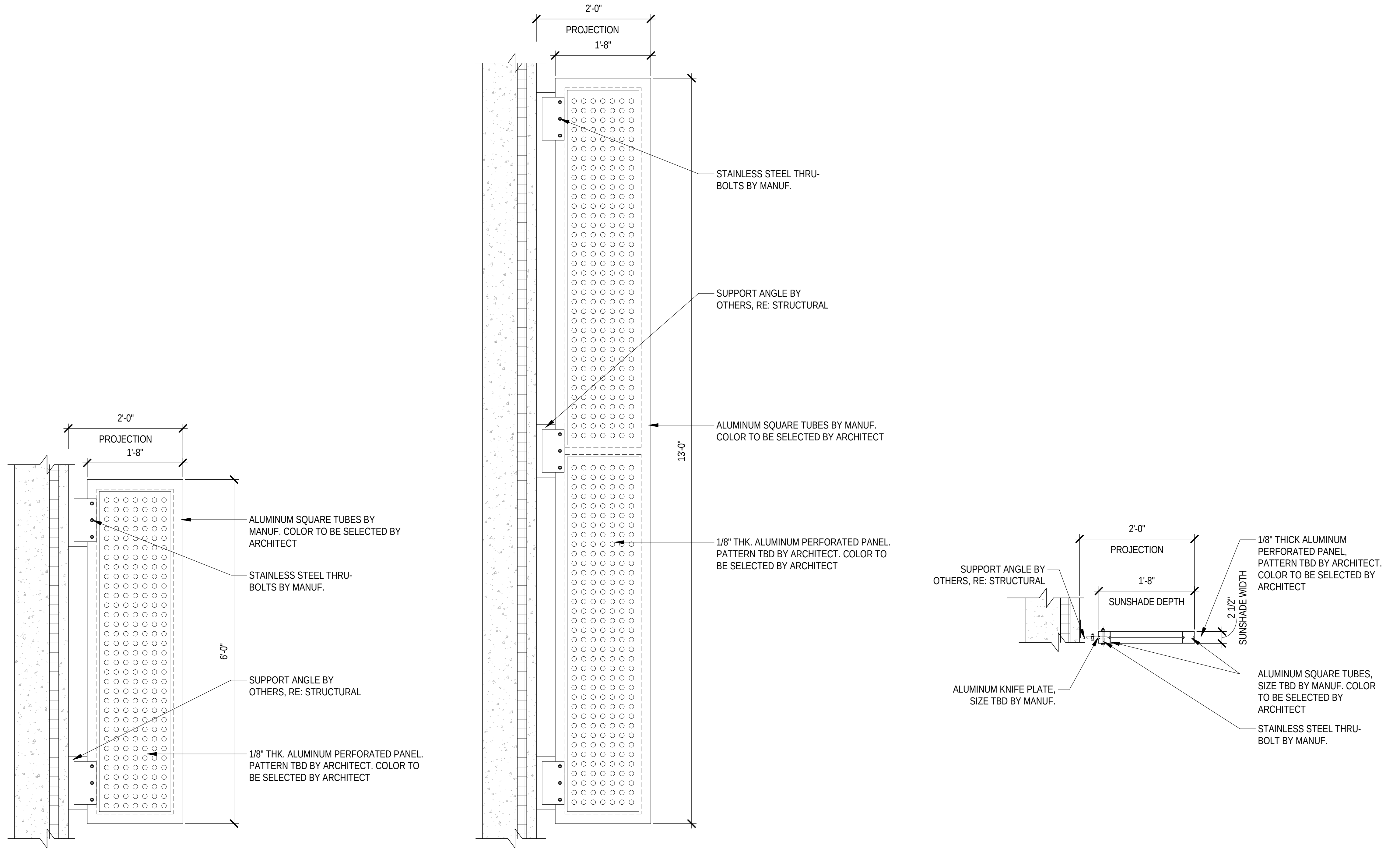
July 19, 2022

WALL SECTIONS

A-305


2'-0"
PROJECTION
1'-8"
ALUMINUM SQUARE TUBES BY MANUF. COLOR TO BE SELECTED BY ARCHITECT
STAINLESS STEEL THRU-BOLTS BY MANUF.
6'-0"
SUPPORT ANGLE BY OTHERS, RE: STRUCTURAL
1/8" THK. ALUMINUM PERFORATED PANEL. PATTERN TBD BY ARCHITECT. COLOR TO BE SELECTED BY ARCHITECT
2'-0"
PROJECTION
1'-8"
STAINLESS STEEL THRU-BOLTS BY MANUF.
SUPPORT ANGLE BY OTHERS, RE: STRUCTURAL
ALUMINUM SQUARE TUBES BY MANUF. COLOR TO BE SELECTED BY ARCHITECT
13'-0"
1/8" THK. ALUMINUM PERFORATED PANEL. PATTERN TBD BY ARCHITECT. COLOR TO BE SELECTED BY ARCHITECT
2'-0"
PROJECTION
1'-8"
SUNSHADE DEPTH
SUPPORT ANGLE BY OTHERS, RE: STRUCTURAL
1/8" THICK ALUMINUM PERFORATED PANEL, PATTERN TBD BY ARCHITECT. COLOR TO BE SELECTED BY ARCHITECT
2 1/2" SUNSHADE WIDTH
ALUMINUM KNIFE PLATE, SIZE TBD BY MANUF.
ALUMINUM SQUARE TUBES, SIZE TBD BY MANUF. COLOR TO BE SELECTED BY ARCHITECT
STAINLESS STEEL THRU-BOLT BY MANUF.

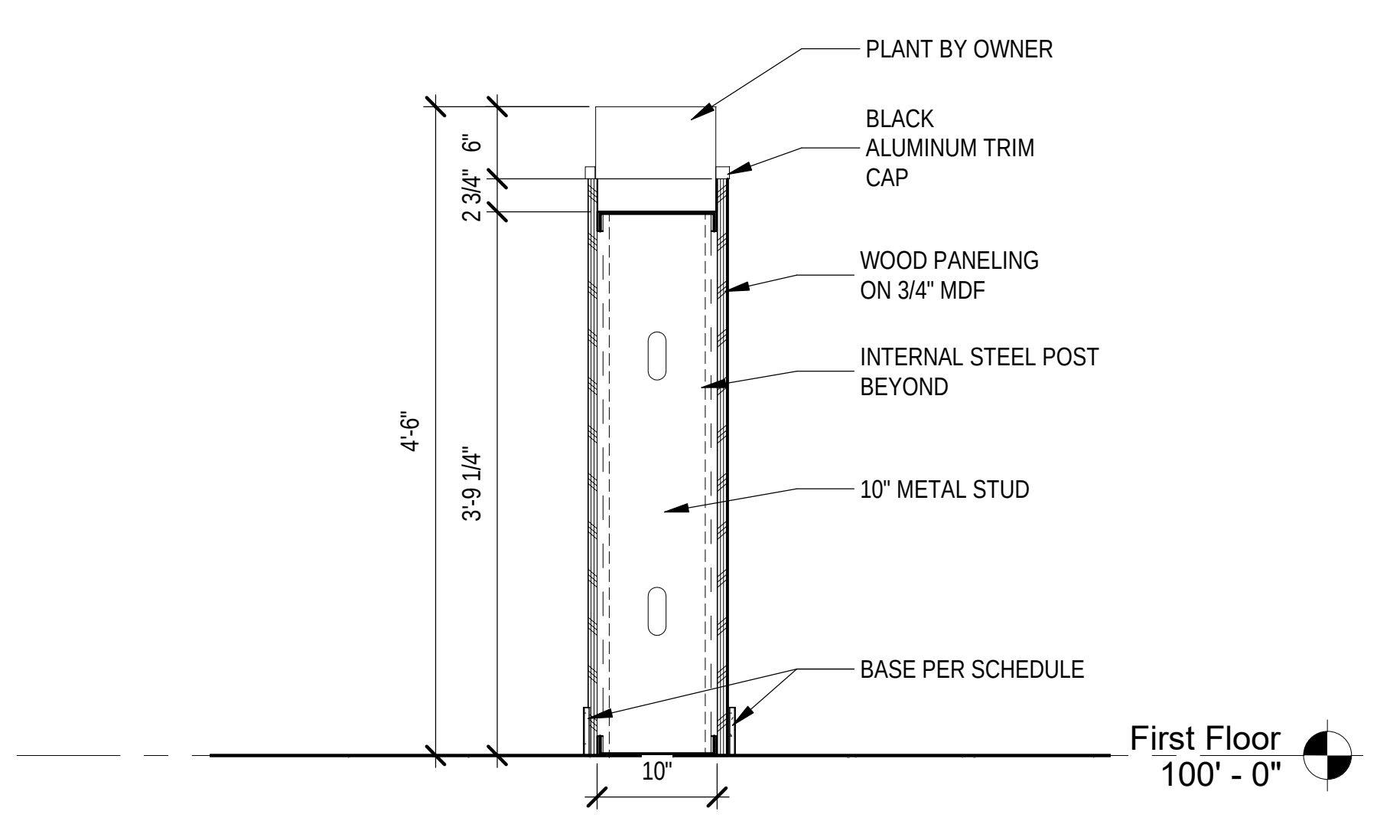
PANEL 1

PANEL 2

PLAN

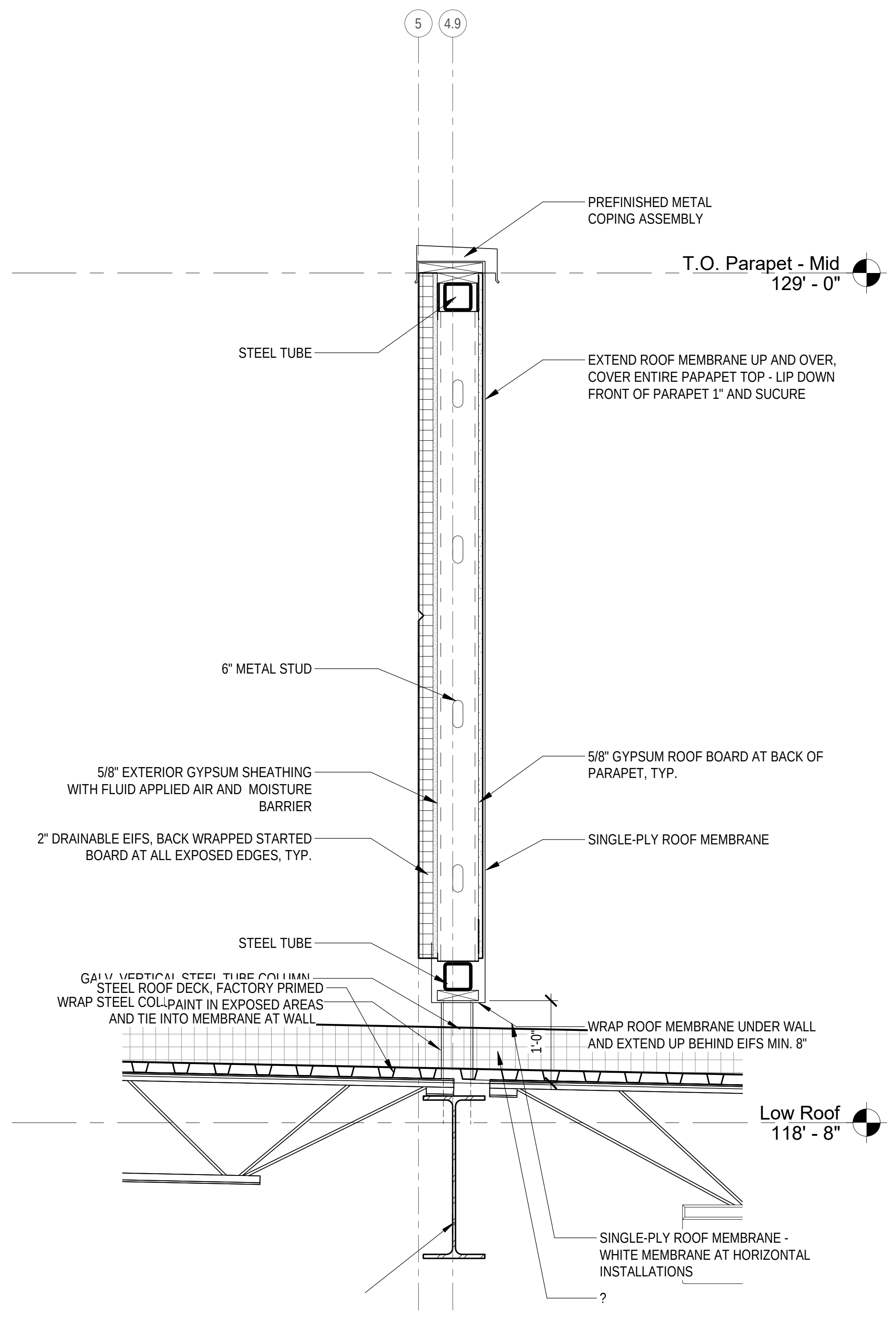
Solar Shade Details 4

3/4" = 1'-0"



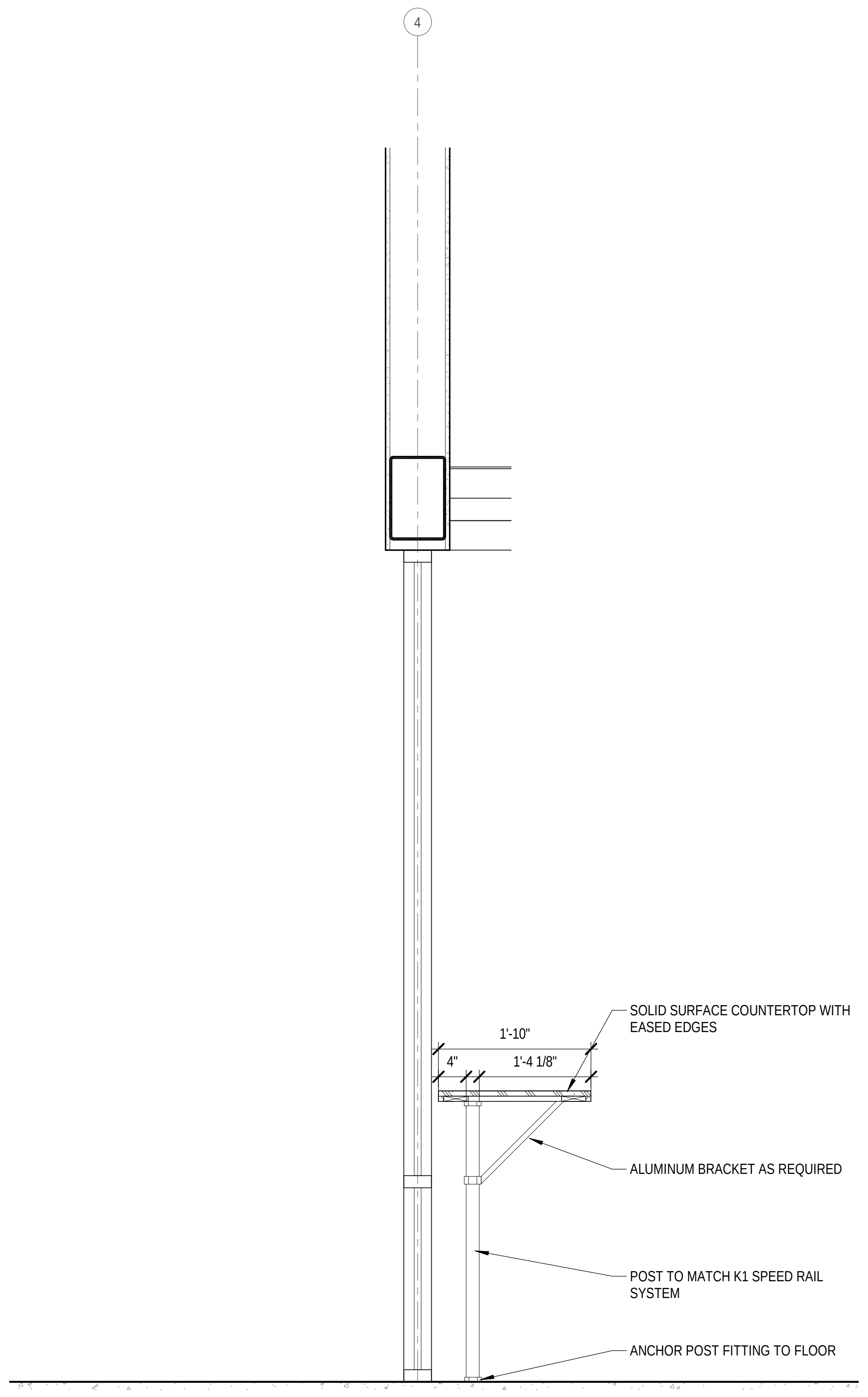
Paddock Lounge Dividing Wall Section 2

3/4" = 1'-0"


5
4.9
PREFINISHED METAL COPING ASSEMBLY
T.O. Parapet - Mid
129' - 0"
STEEL TUBE
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE
6" METAL STUD
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
2" DRAINABLE EIFS, BACK WRAPPED STARTED BOARD AT ALL EXPOSED EDGES, TYP.
SINGLE-PLY ROOF MEMBRANE
STEEL TUBE
GALV. VERTICAL STEEL TUBE COLUMN
STEEL ROOF DECK, FACTORY PRIMED
WRAP STEEL COL
PAINT IN EXPOSED AREAS
AND TIE INTO MEMBRANE AT WALL
WRAP ROOF MEMBRANE UNDER WALL AND EXTEND UP BEHIND EIFS MIN. 8"
1'-0"
Low Roof
118' - 8"
SINGLE-PLY ROOF MEMBRANE - WHITE MEMBRANE AT HORIZONTAL INSTALLATIONS
?

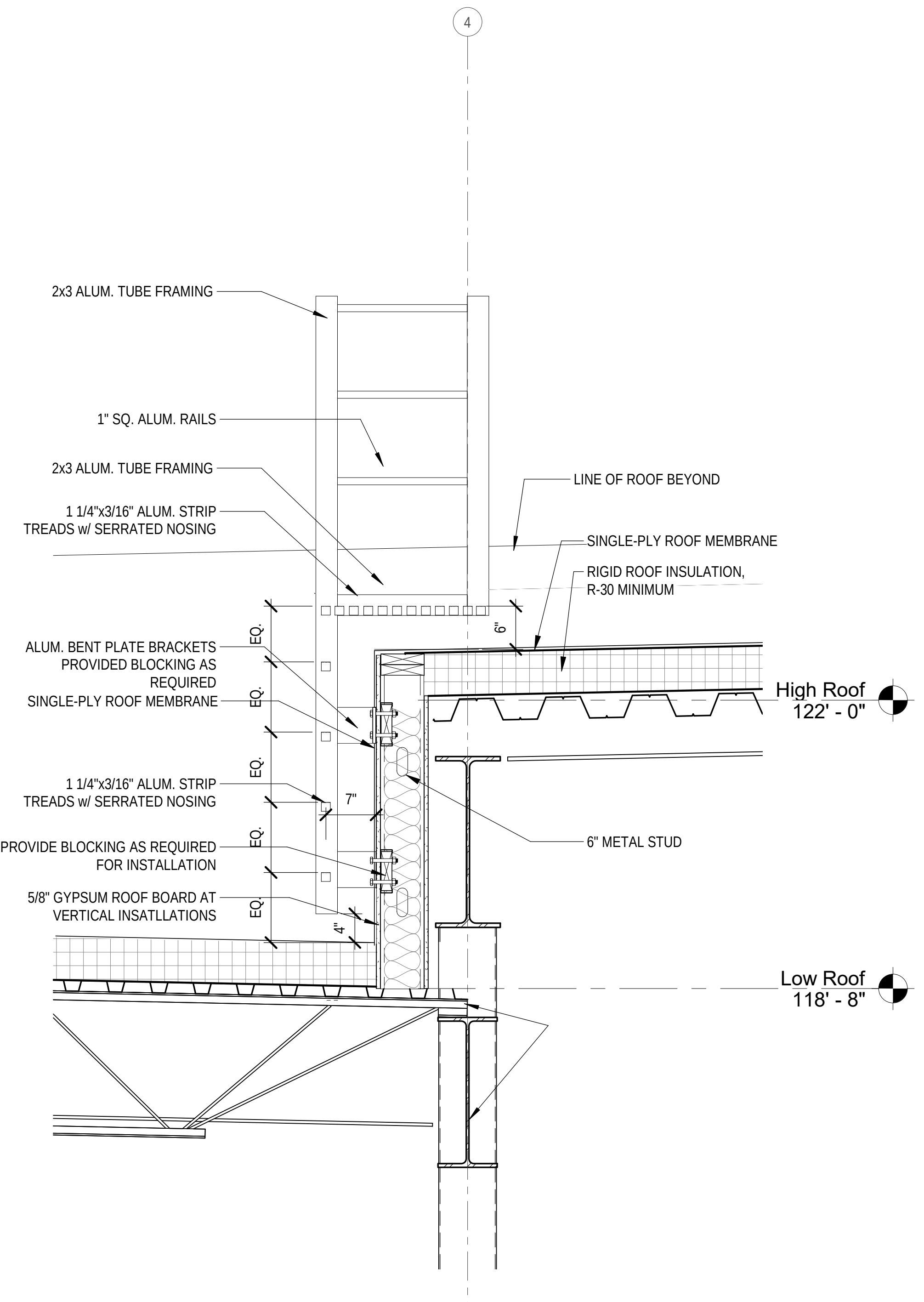
Roof Section 5

3/4" = 1'-0"


4
SOLID SURFACE COUNTERTOP WITH EASED EDGES
1'-10"
4"
1'-4 1/8"
ALUMINUM BRACKET AS REQUIRED
POST TO MATCH K1 SPEED RAIL SYSTEM
ANCHOR POST FITTING TO FLOOR

Window Drink Rail Section 3

3/4" = 1'-0"


4
2x3 ALUM. TUBE FRAMING
1" SQ. ALUM. RAILS
2x3 ALUM. TUBE FRAMING
1 1/4"x3/16" ALUM. STRIP TREADS w/ SERRATED NOSING
LINE OF ROOF BEYOND
SINGLE-PLY ROOF MEMBRANE
RIGID ROOF INSULATION, R-30 MINIMUM
6"
ALUM. BENT PLATE BRACKETS PROVIDED BLOCKING AS REQUIRED
SINGLE-PLY ROOF MEMBRANE
EQ.
EQ.
EQ.
EQ.
EQ.
High Roof
122' - 0"
1 1/4"x3/16" ALUM. STRIP TREADS w/ SERRATED NOSING
7"
6" METAL STUD
PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION
5/8" GYPSUM ROOF BOARD AT VERTICAL INSATLLATIONS
4"
Low Roof
118' - 8"

Roof Section 1

3/4" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
09/20/2022

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CHARLES W. KELLER
A-6386
Charles W. Keller 7.19.22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:

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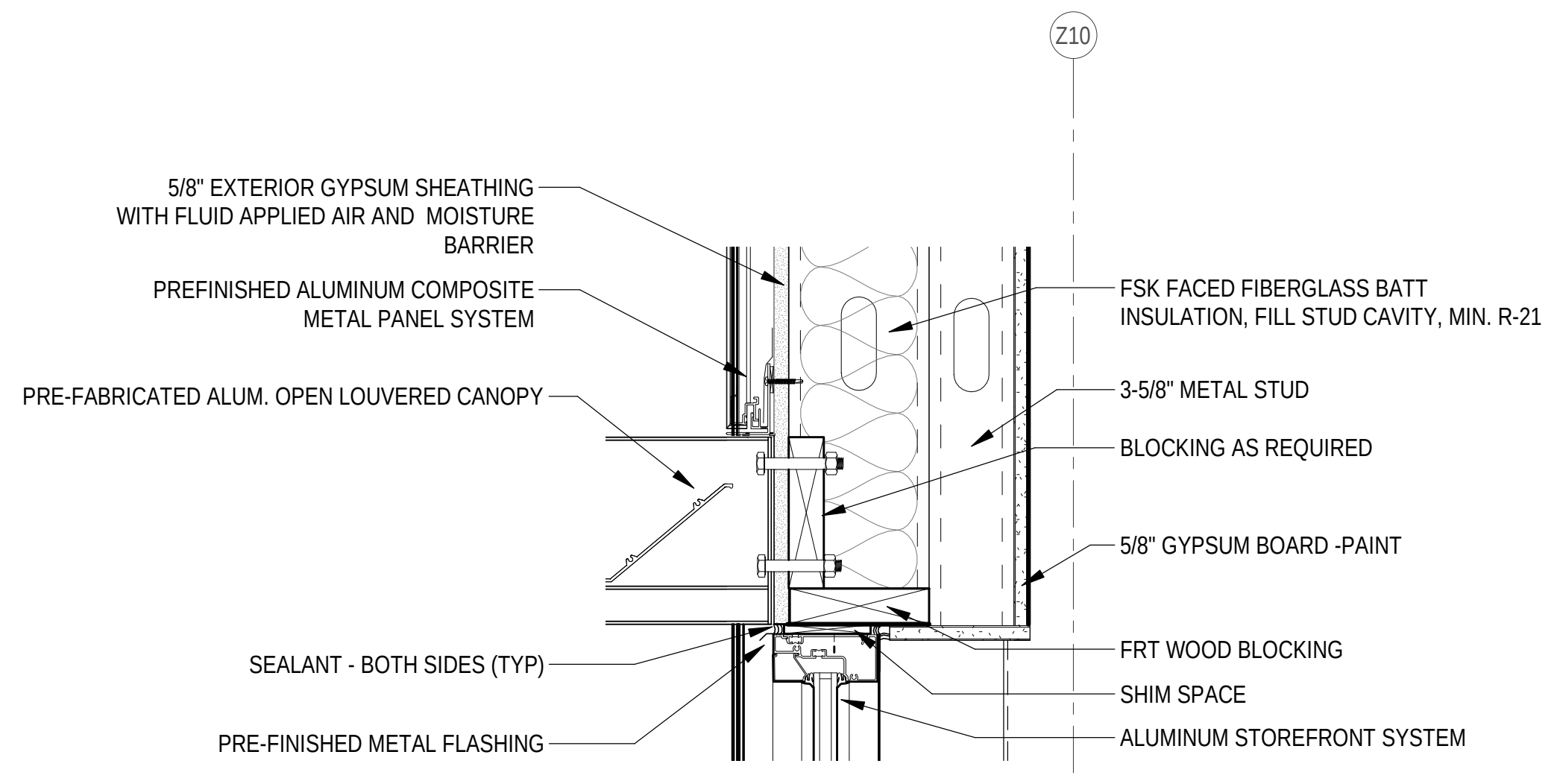
CONSTRUCTION DOCUMENTS

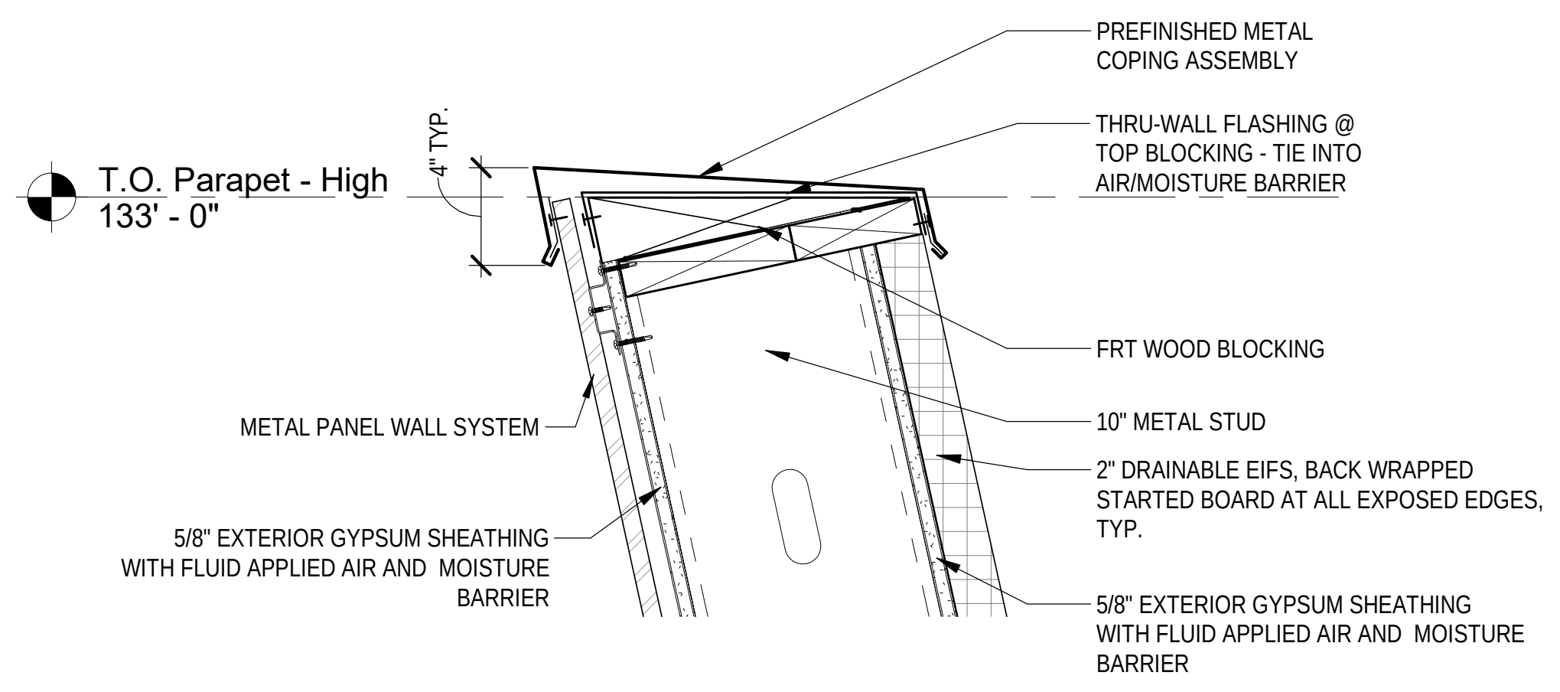
July 19, 2022

WALL SECTIONS

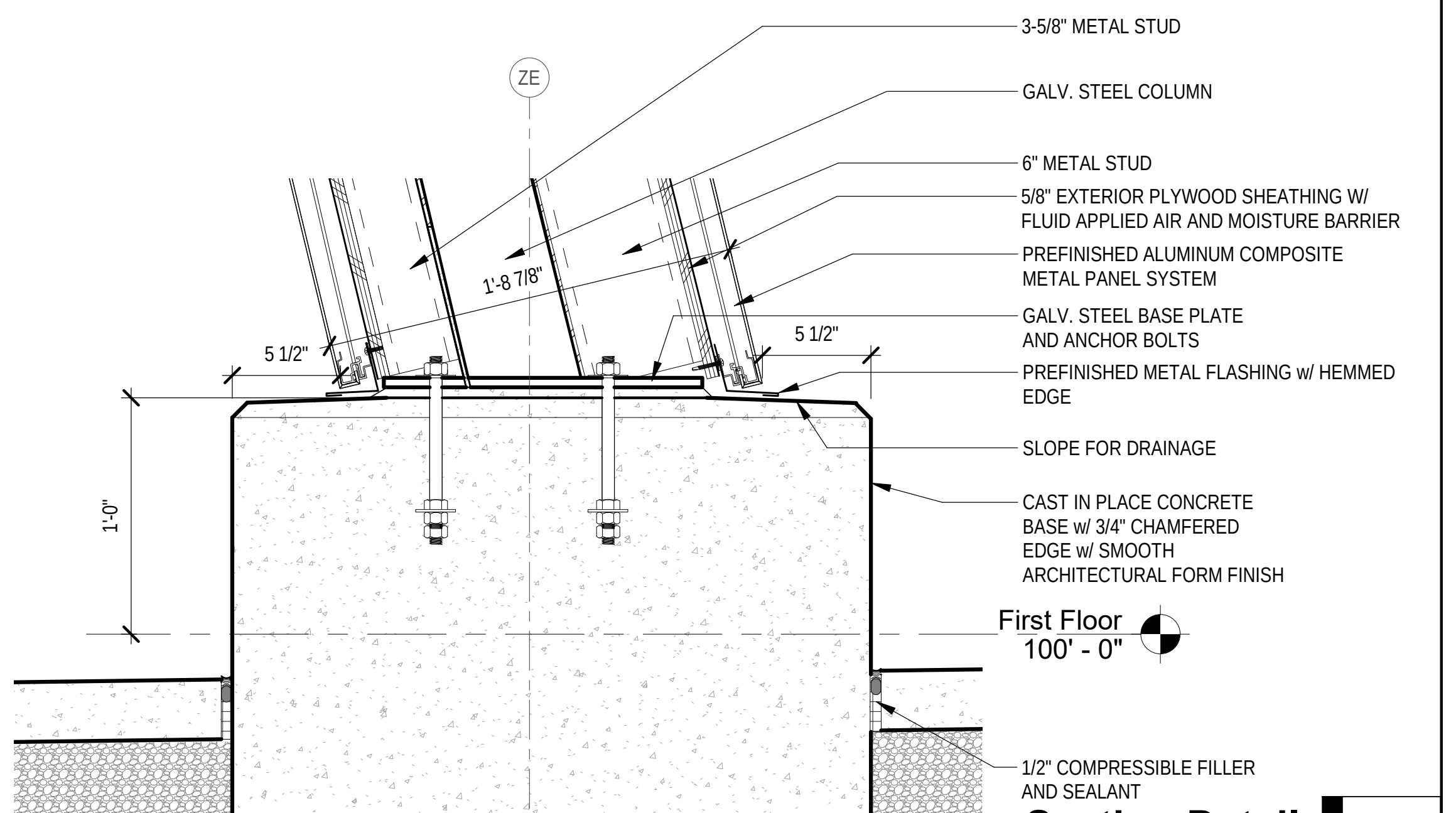
A-306


Z10
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
PRE-FABRICATED ALUM. OPEN LOUVERED CANOPY
SEALANT - BOTH SIDES (TYP)
PRE-FINISHED METAL FLASHING
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
3-5/8" METAL STUD
BLOCKING AS REQUIRED
5/8" GYPSUM BOARD -PAINT
FRT WOOD BLOCKING
SHIM SPACE
ALUMINUM STOREFRONT SYSTEM

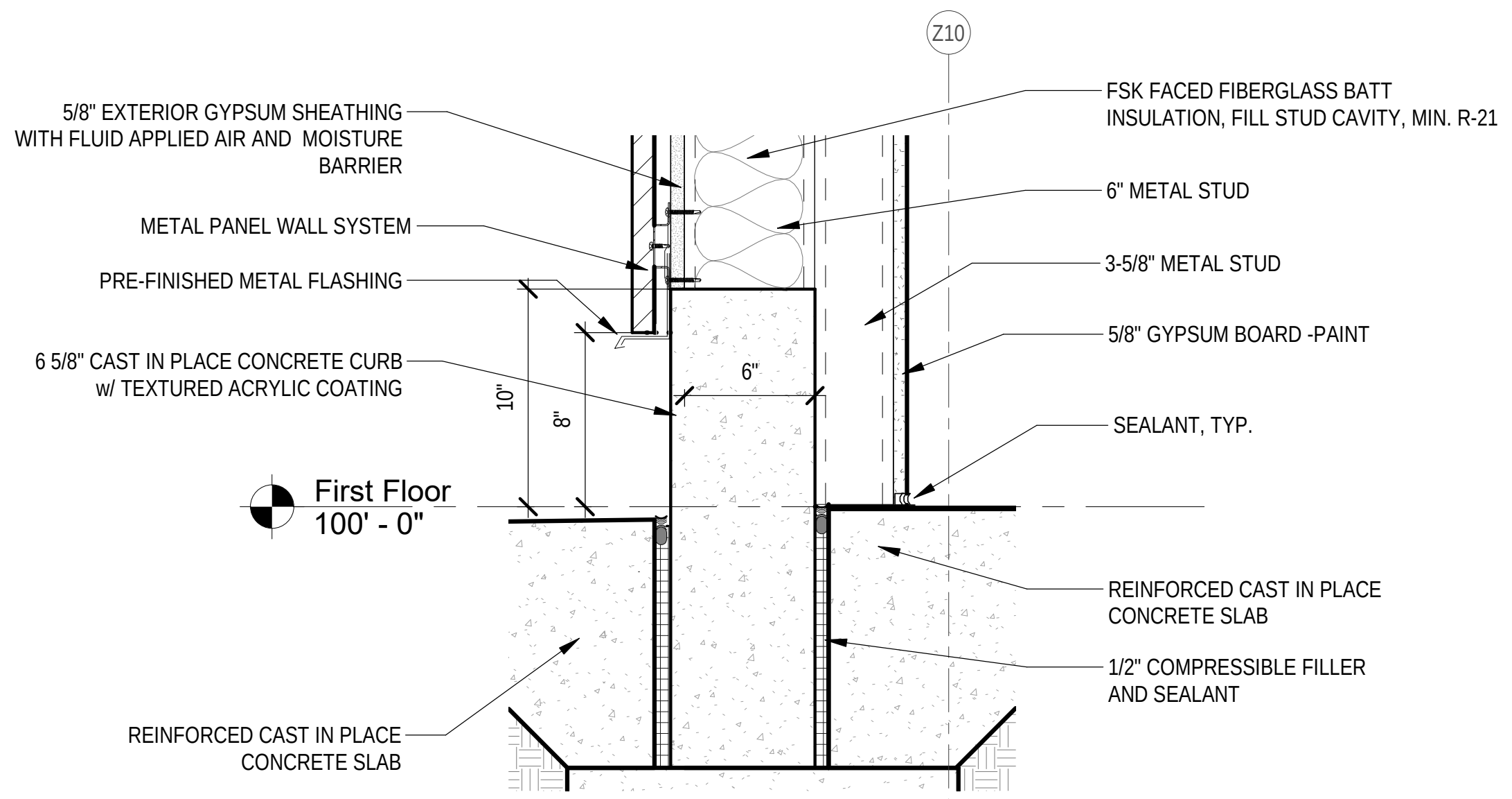
Section Detail 14
1 1/2" = 1'-0"


T.O. Parapet - High
133' - 0"
4" TYP.
PREFINISHED METAL COPING ASSEMBLY
THRU-WALL FLASHING @ TOP BLOCKING - TIE INTO AIR/MOISTURE BARRIER
FRT WOOD BLOCKING
10" METAL STUD
2" DRAINABLE EIFS, BACK WRAPPED STARTED BOARD AT ALL EXPOSED EDGES, TYP.
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL PANEL WALL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER

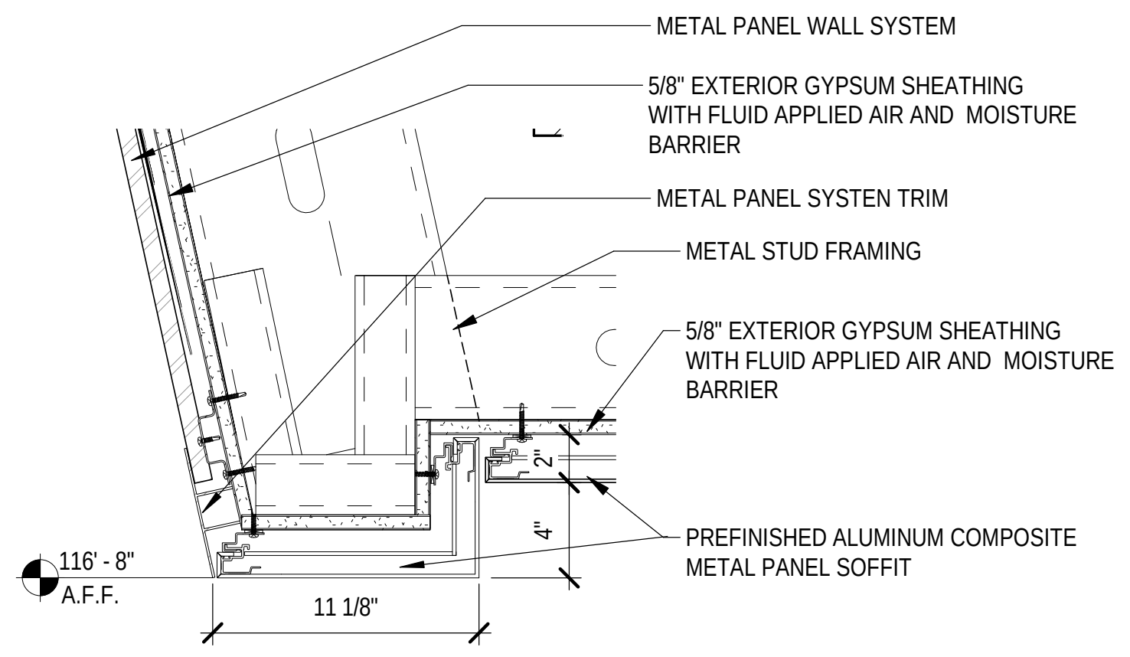
Section Detail 9
1 1/2" = 1'-0"


ZE
3-5/8" METAL STUD
GALV. STEEL COLUMN
6" METAL STUD
5/8" EXTERIOR PLYWOOD SHEATHING W/ FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
GALV. STEEL BASE PLATE AND ANCHOR BOLTS
PREFINISHED METAL FLASHING w/ HEMMED EDGE
SLOPE FOR DRAINAGE
CAST IN PLACE CONCRETE BASE w/ 3/4" CHAMFERED EDGE w/ SMOOTH ARCHITECTURAL FORM FINISH
First Floor
100' - 0"
1/2" COMPRESSIBLE FILLER AND SEALANT
1'-8 7/8"
5 1/2"
5 1/2"
1'-0"

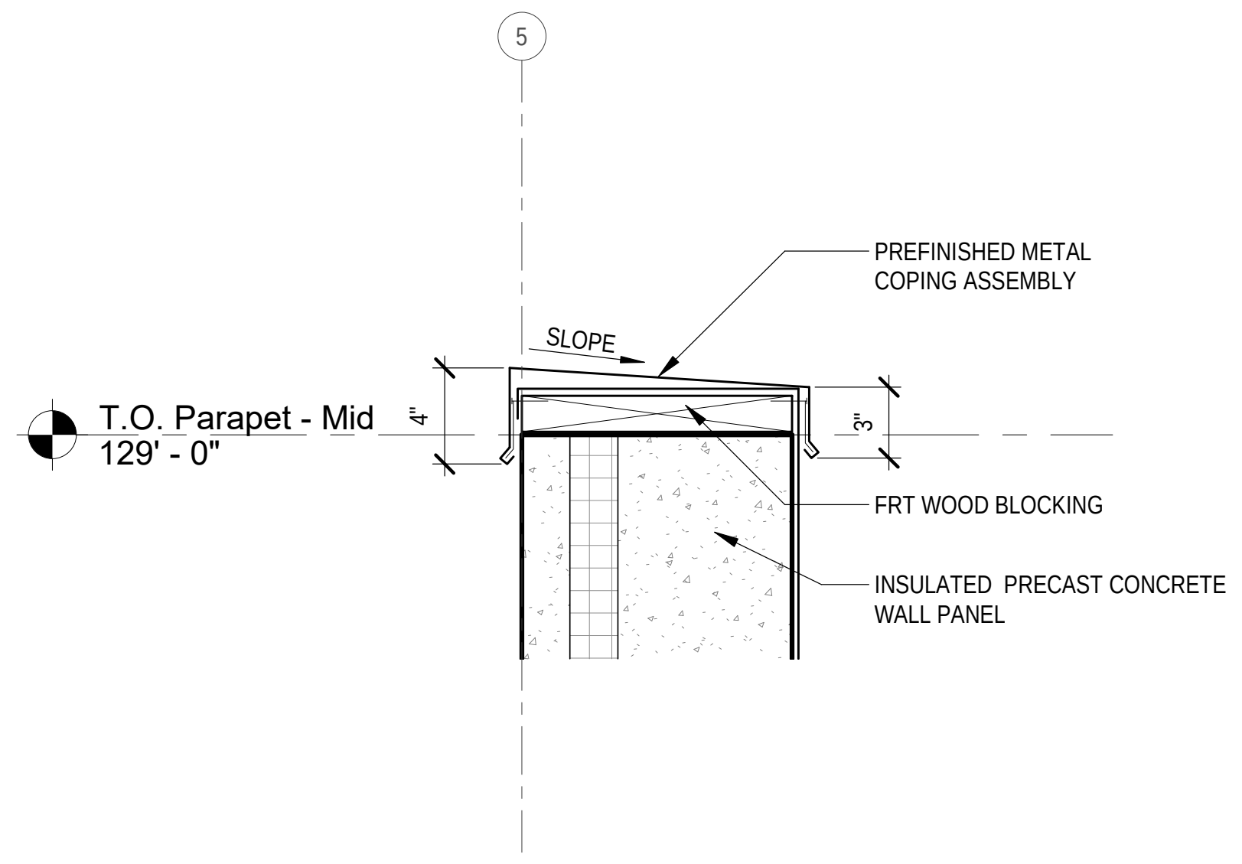
Section Detail 5
1 1/2" = 1'-0"


Z10
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL PANEL WALL SYSTEM
PRE-FINISHED METAL FLASHING
6 5/8" CAST IN PLACE CONCRETE CURB w/ TEXTURED ACRYLIC COATING
First Floor
100' - 0"
REINFORCED CAST IN PLACE CONCRETE SLAB
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
6" METAL STUD
3-5/8" METAL STUD
5/8" GYPSUM BOARD -PAINT
SEALANT, TYP.
REINFORCED CAST IN PLACE CONCRETE SLAB
1/2" COMPRESSIBLE FILLER AND SEALANT
6"
10"
8"

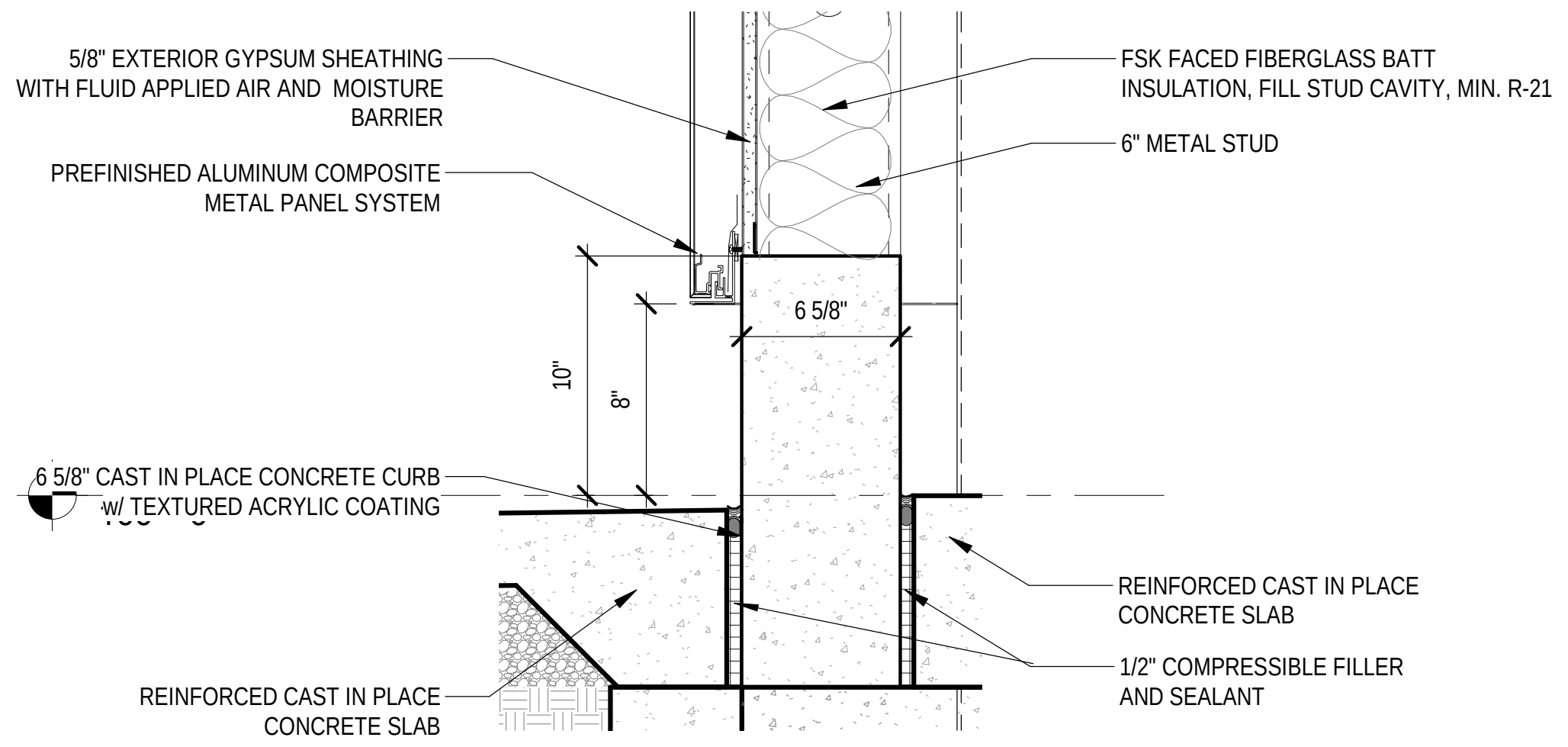
Section Detail 13
1 1/2" = 1'-0"


METAL PANEL WALL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL PANEL SYSTEN TRIM
METAL STUD FRAMING
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SOFFIT
116' - 8"
A.F.F.
11 1/8"
2"
4"

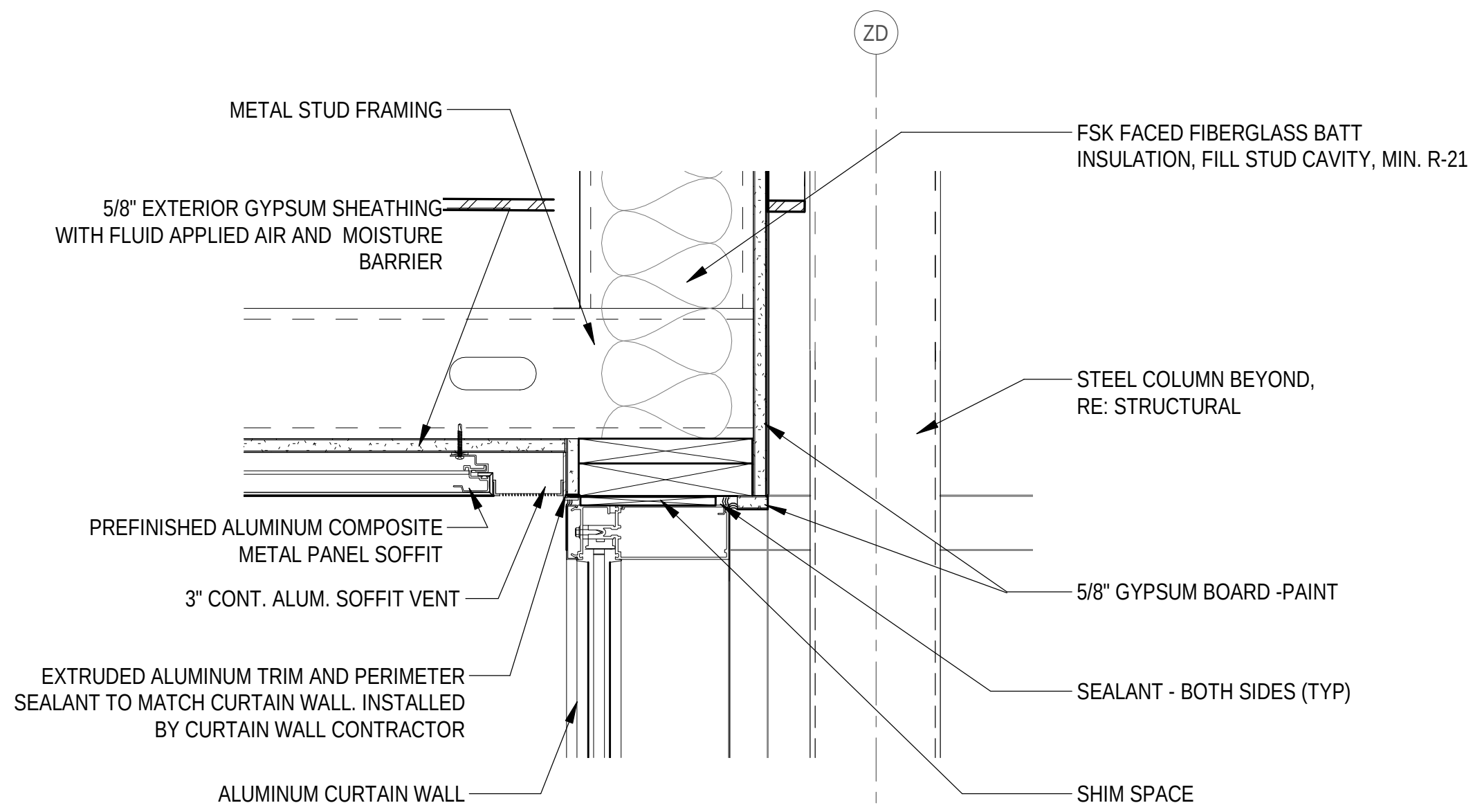
Section Detail 8
1 1/2" = 1'-0"


5
T.O. Parapet - Mid
129' - 0"
SLOPE
4"
3"
PREFINISHED METAL COPING ASSEMBLY
FRT WOOD BLOCKING
INSULATED PRECAST CONCRETE WALL PANEL

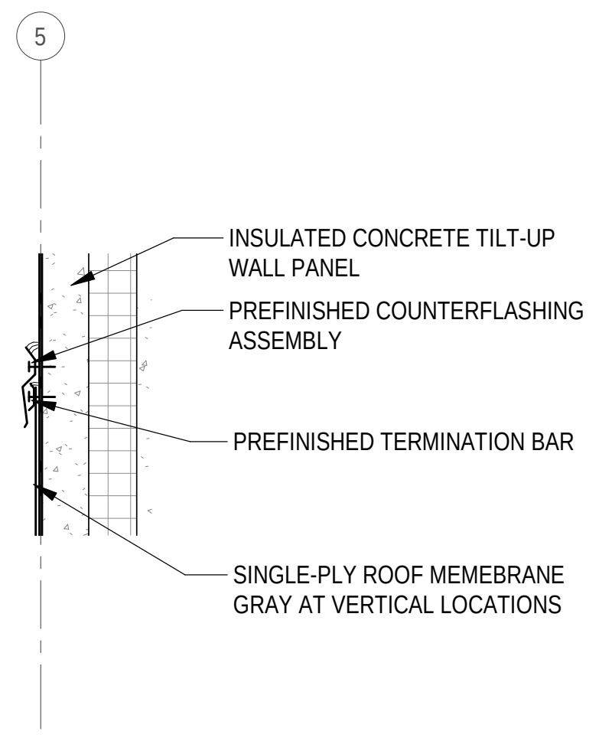
Section Detail 4
1 1/2" = 1'-0"


5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
6 5/8" CAST IN PLACE CONCRETE CURB w/ TEXTURED ACRYLIC COATING
REINFORCED CAST IN PLACE CONCRETE SLAB
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
6" METAL STUD
REINFORCED CAST IN PLACE CONCRETE SLAB
1/2" COMPRESSIBLE FILLER AND SEALANT
6 5/8"
10"
8"

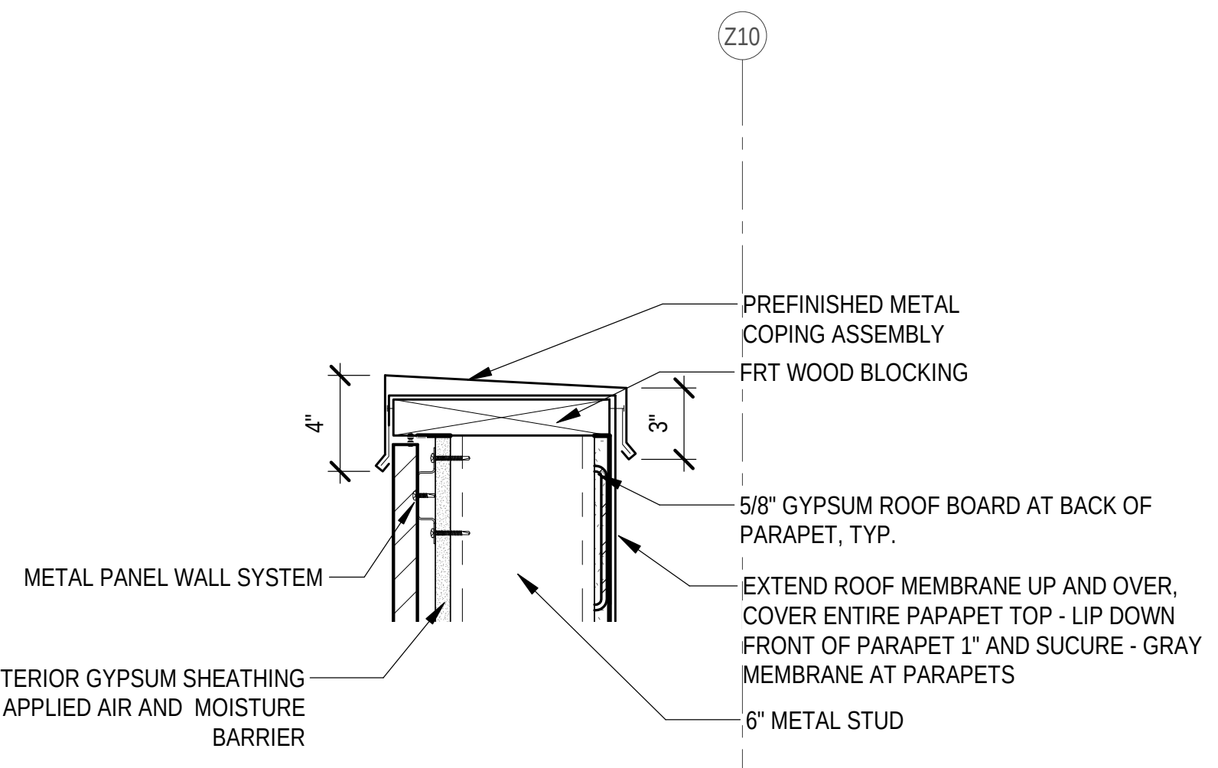
Section Detail 12
1 1/2" = 1'-0"


ZD
METAL STUD FRAMING
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SOFFIT
3" CONT. ALUM. SOFFIT VENT
EXTRUDED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH CURTAIN WALL. INSTALLED BY CURTAIN WALL CONTRACTOR
ALUMINUM CURTAIN WALL SYSTEM
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
STEEL COLUMN BEYOND, RE: STRUCTURAL
5/8" GYPSUM BOARD -PAINT
SEALANT - BOTH SIDES (TYP)
SHIM SPACE

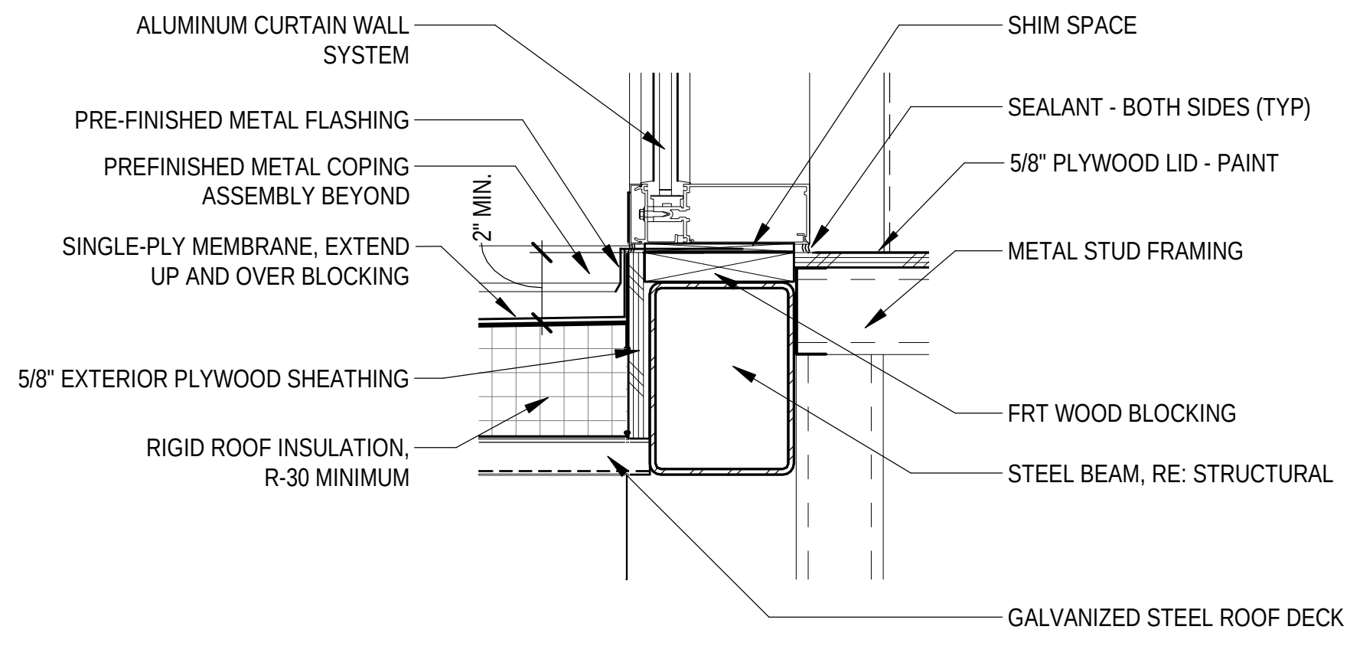
Section Detail 7
1 1/2" = 1'-0"


5
INSULATED CONCRETE TILT-UP WALL PANEL
PREFINISHED COUNTERFLASHING ASSEMBLY
PREFINISHED TERMINATION BAR
SINGLE-PLY ROOF MEMEBRANE GRAY AT VERTICAL LOCATIONS

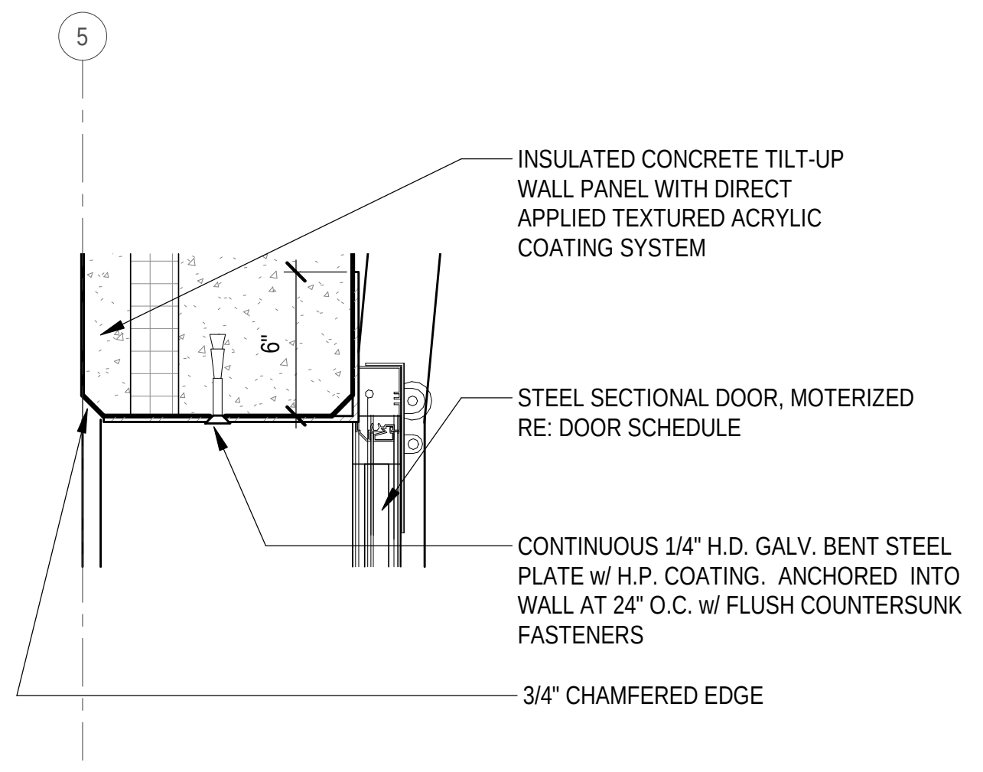
Section Detail 3
1 1/2" = 1'-0"


Z10
PREFINISHED METAL COPING ASSEMBLY
FRT WOOD BLOCKING
5/8" GYPSUM ROOF BOARD AT BACK OF PARAPET, TYP.
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE - GRAY MEMBRANE AT PARAPETS
6" METAL STUD
METAL PANEL WALL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
4"
3"

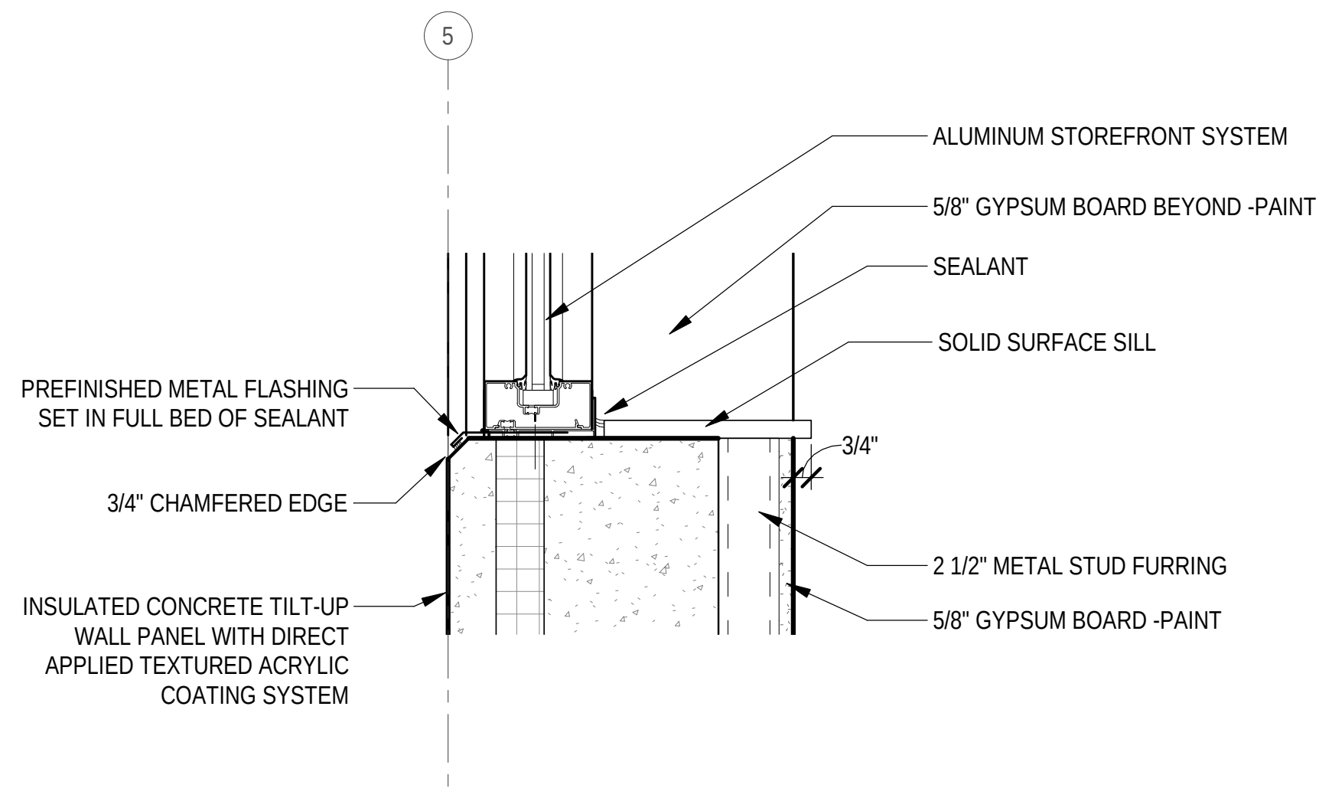
Section Detail 11
1 1/2" = 1'-0"


ALUMINUM CURTAIN WALL SYSTEM
PRE-FINISHED METAL FLASHING
PREFINISHED METAL COPING ASSEMBLY BEYOND
SINGLE-PLY MEMBRANE, EXTEND UP AND OVER BLOCKING
5/8" EXTERIOR PLYWOOD SHEATHING
RIGID ROOF INSULATION, R-30 MINIMUM
2" MIN.
SHIM SPACE
SEALANT - BOTH SIDES (TYP)
5/8" PLYWOOD LID - PAINT
METAL STUD FRAMING
FRT WOOD BLOCKING
STEEL BEAM, RE: STRUCTURAL
GALVANIZED STEEL ROOF DECK

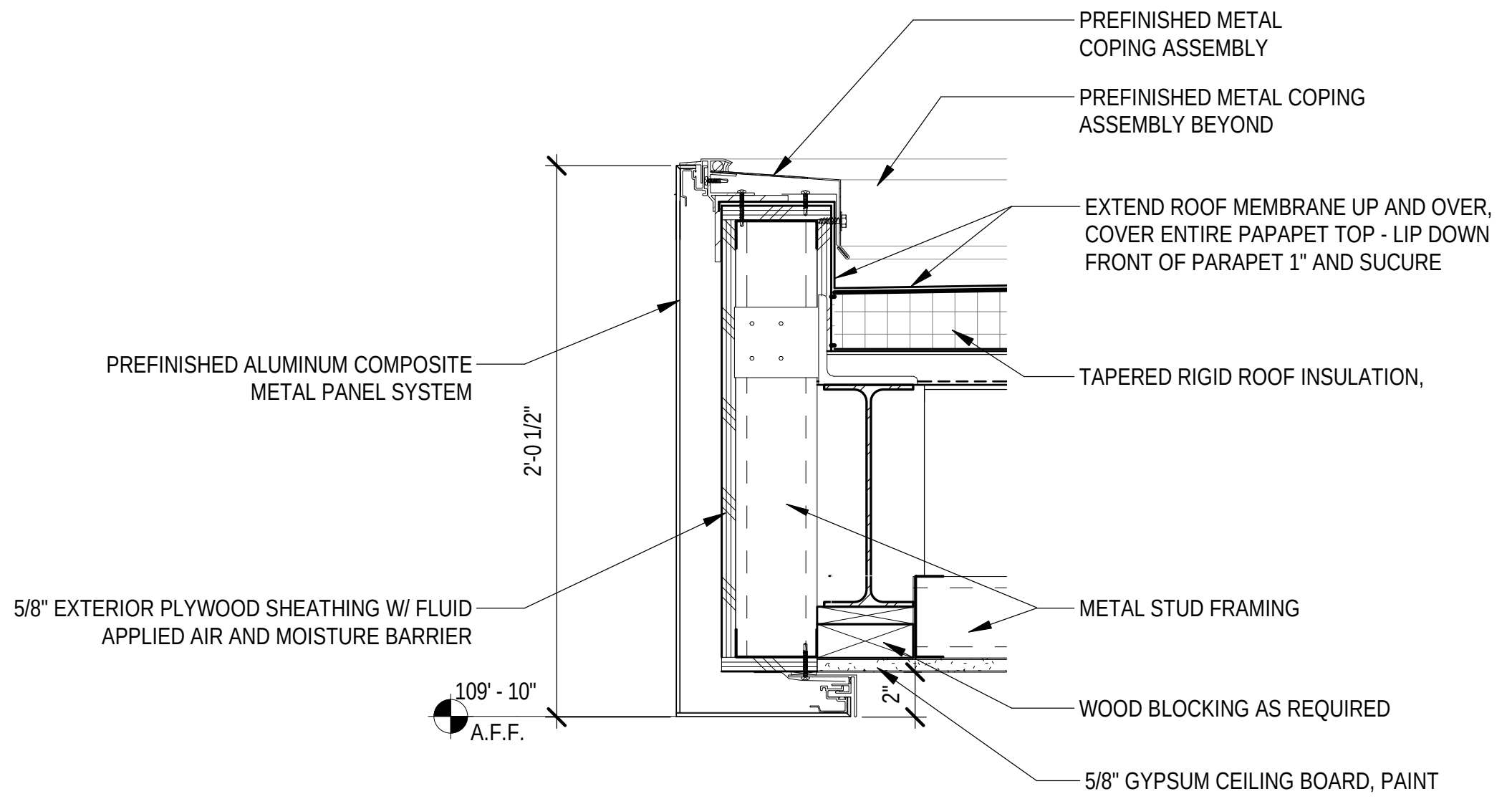
Section 15 6
1 1/2" = 1'-0"


5
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
6"
STEEL SECTIONAL DOOR, MOTERIZED RE: DOOR SCHEDULE
CONTINUOUS 1/4" H.D. GALV. BENT STEEL PLATE w/ H.P. COATING. ANCHORED INTO WALL AT 24" O.C. w/ FLUSH COUNTERSUNK FASTENERS
3/4" CHAMFERED EDGE

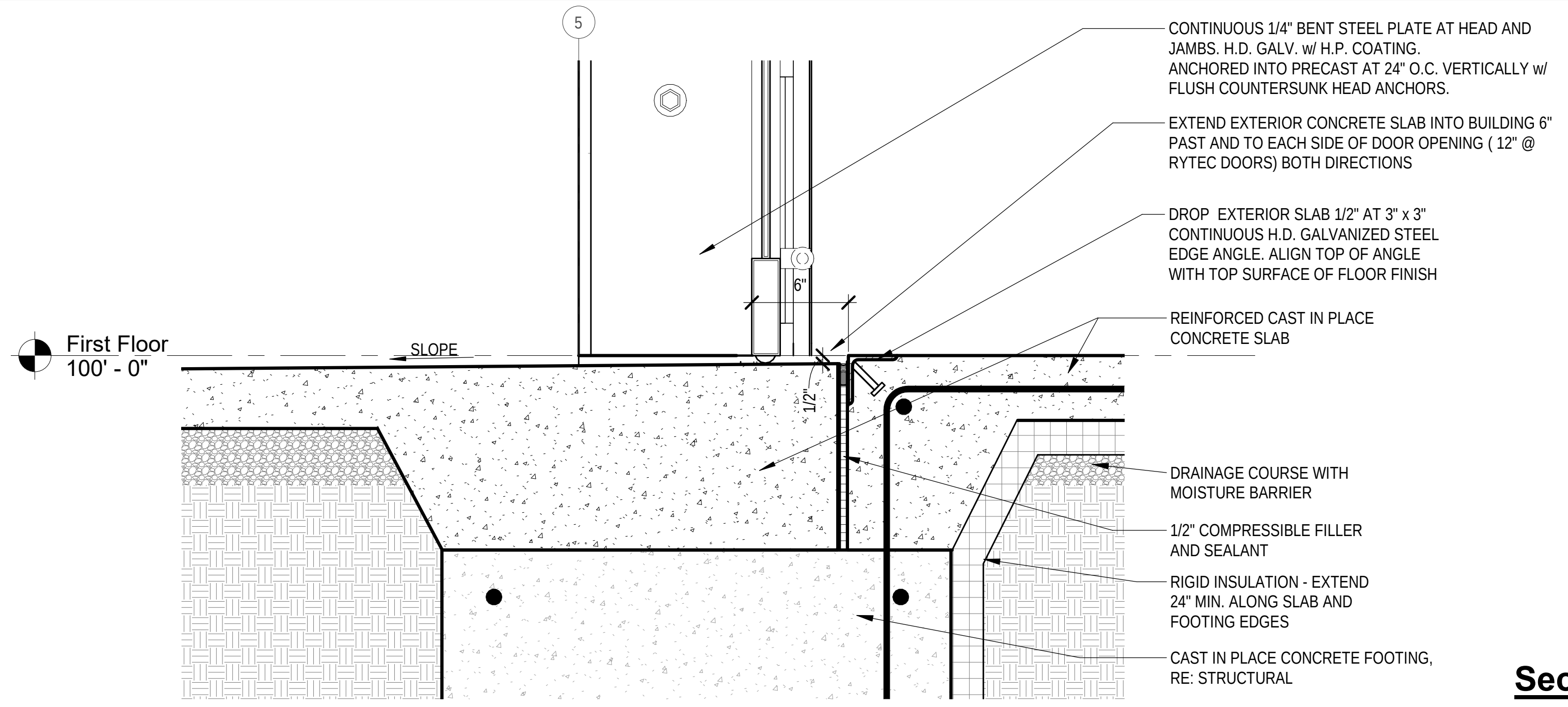
Section Detail 2
1 1/2" = 1'-0"


5
ALUMINUM STOREFRONT SYSTEM
5/8" GYPSUM BOARD BEYOND -PAINT
SEALANT
SOLID SURFACE SILL
PREFINISHED METAL FLASHING SET IN FULL BED OF SEALANT
3/4" CHAMFERED EDGE
INSULATED CONCRETE TILT-UP WALL PANEL WITH DIRECT APPLIED TEXTURED ACRYLIC COATING SYSTEM
3/4"
2 1/2" METAL STUD FURRING
5/8" GYPSUM BOARD -PAINT

Section Detail 15
1 1/2" = 1'-0"


PREFINISHED METAL COPING ASSEMBLY
PREFINISHED METAL COPING ASSEMBLY BEYOND
EXTEND ROOF MEMBRANE UP AND OVER, COVER ENTIRE PAPAPET TOP - LIP DOWN FRONT OF PARAPET 1" AND SUCURE
TAPERED RIGID ROOF INSULATION,
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
5/8" EXTERIOR PLYWOOD SHEATHING W/ FLUID APPLIED AIR AND MOISTURE BARRIER
METAL STUD FRAMING
WOOD BLOCKING AS REQUIRED
5/8" GYPSUM CEILING BOARD, PAINT
2'-0 1/2"
2"
109' - 10"
A.F.F.

Section Detail 10
1 1/2" = 1'-0"


5
First Floor
100' - 0"
SLOPE
6"
1/2"
CONTINUOUS 1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
EXTEND EXTERIOR CONCRETE SLAB INTO BUILDING 6" PAST AND TO EACH SIDE OF DOOR OPENING (12" @ RYTEC DOORS) BOTH DIRECTIONS
DROP EXTERIOR SLAB 1/2" AT 3" x 3" CONTINUOUS H.D. GALVANIZED STEEL EDGE ANGLE. ALIGN TOP OF ANGLE WITH TOP SURFACE OF FLOOR FINISH
REINFORCED CAST IN PLACE CONCRETE SLAB
DRAINAGE COURSE WITH MOISTURE BARRIER
1/2" COMPRESSIBLE FILLER AND SEALANT
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

Section Detail 1
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

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LICENSED
A-6386
MISSOURI
ARCHITECT
7.19.22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

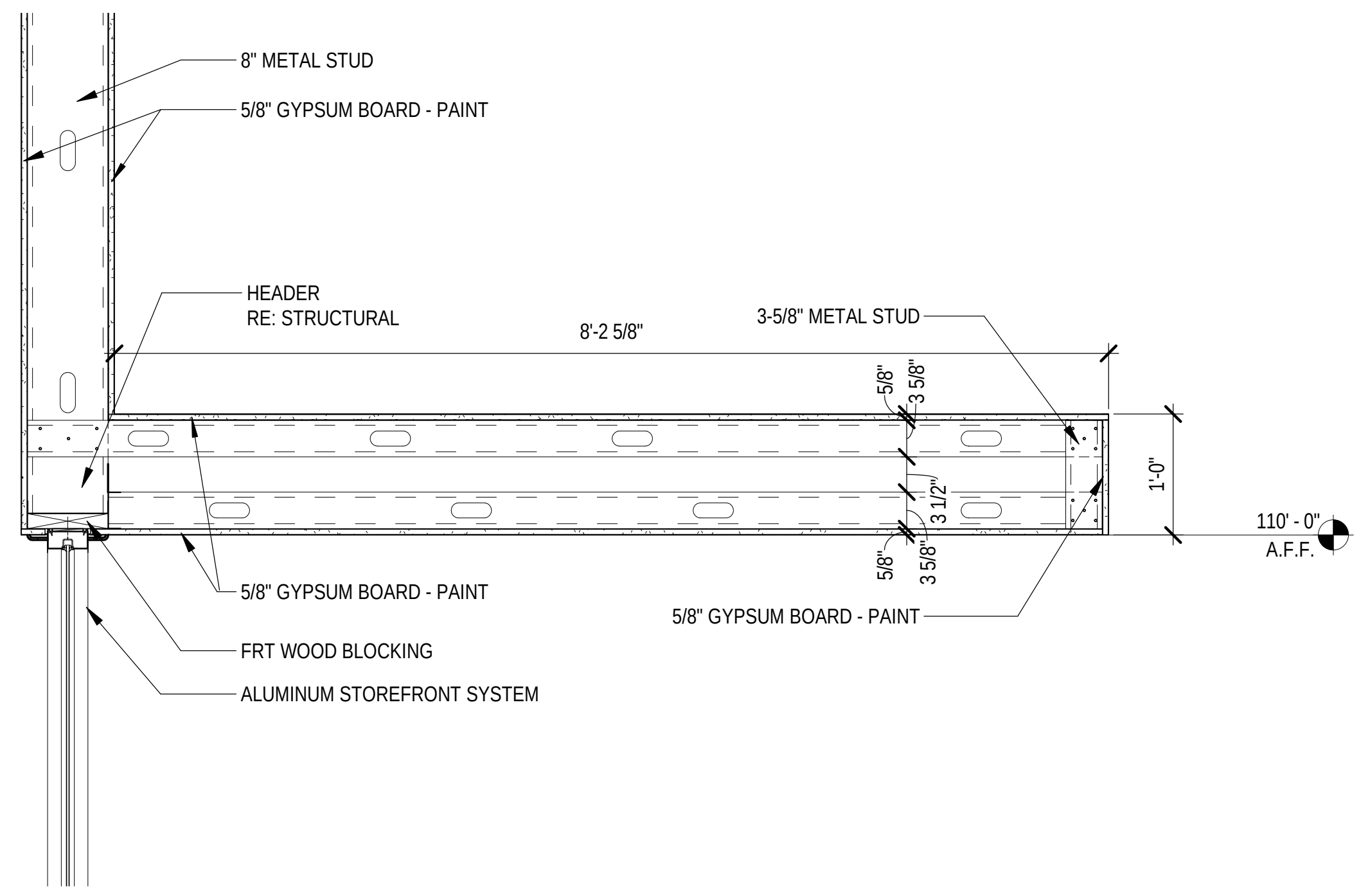
July 19, 2022

SECTION DETAILS

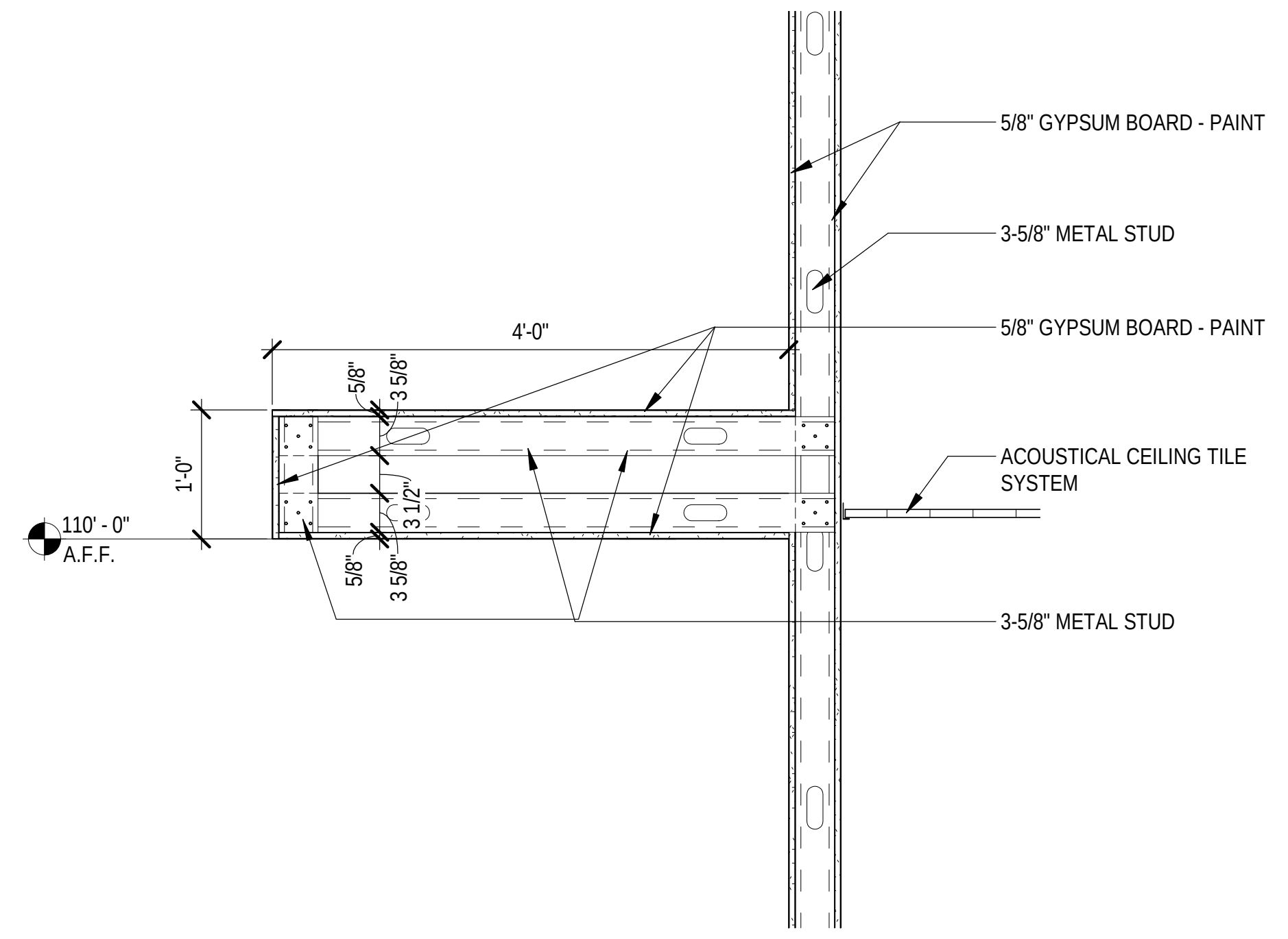
A-307

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

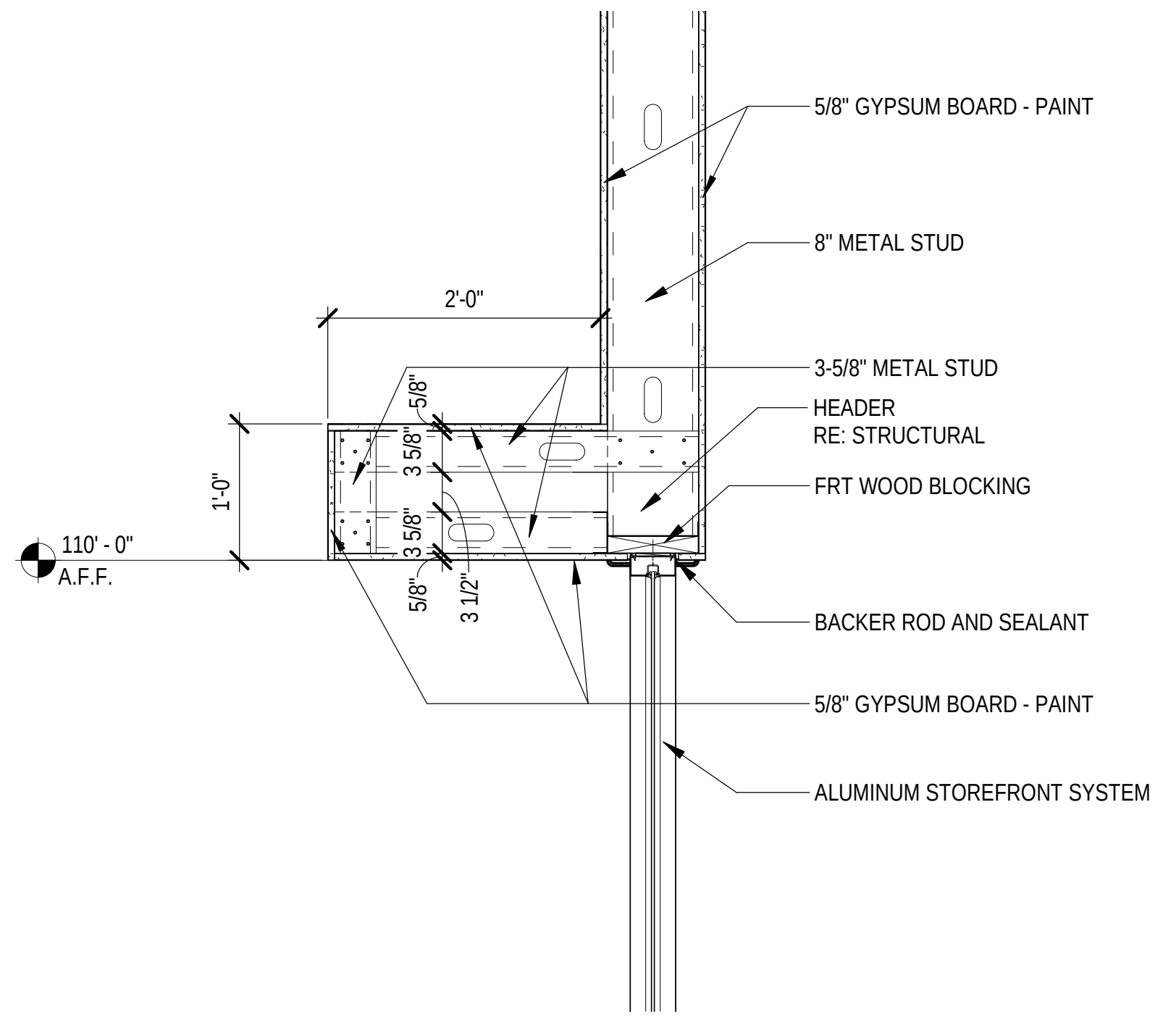
Development Services Department
Lee's Summit, Missouri
09/20/2022



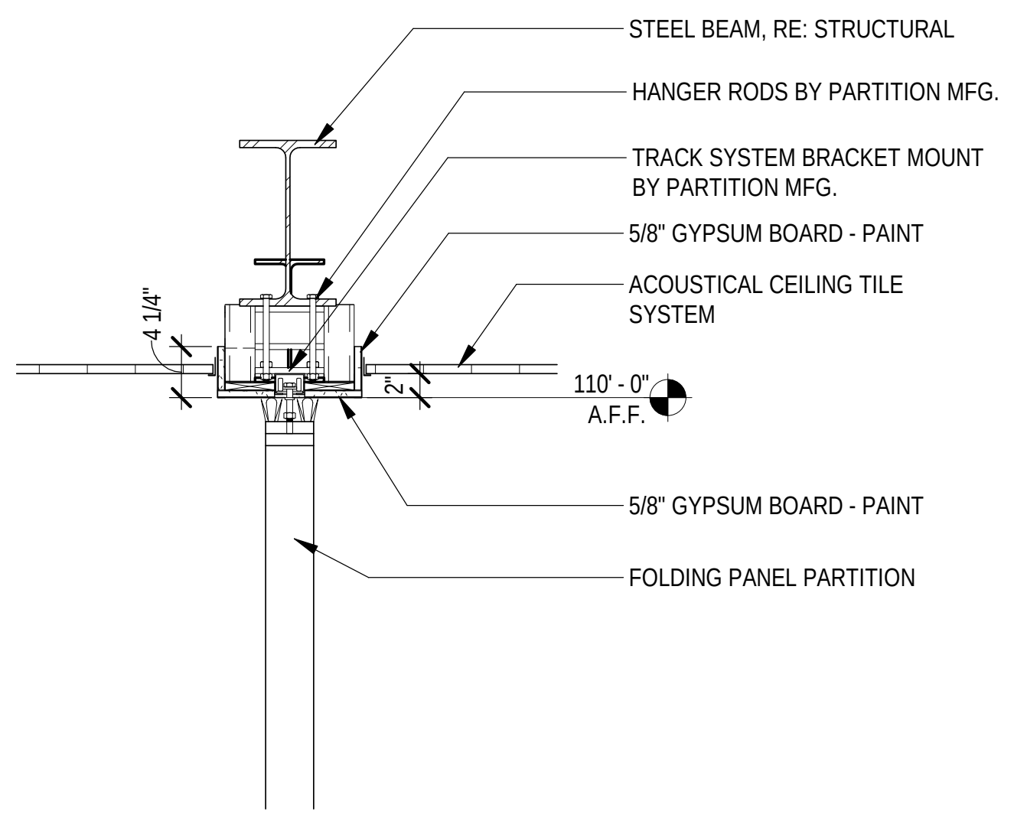
Ceiling Section 8
3/4" = 1'-0"



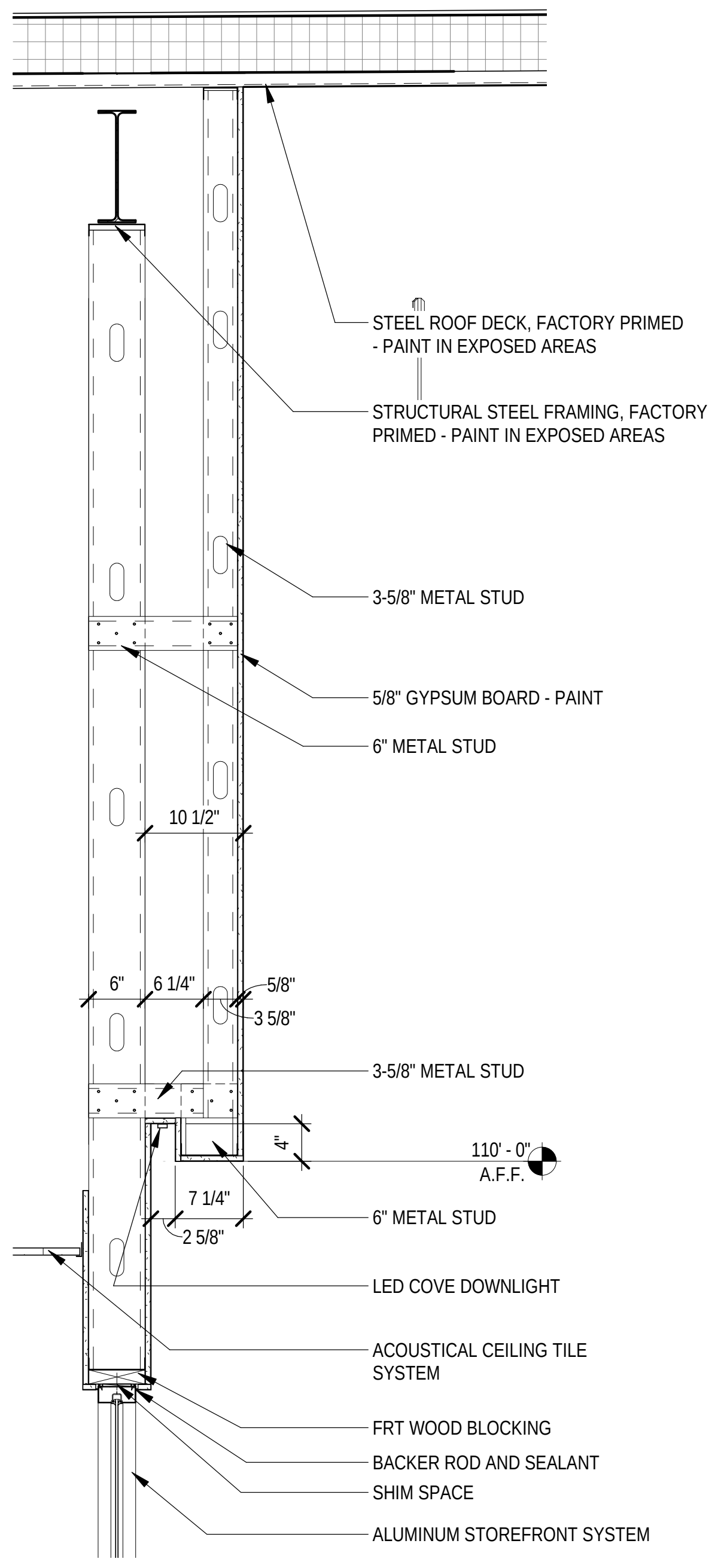
Ceiling Section 6
3/4" = 1'-0"



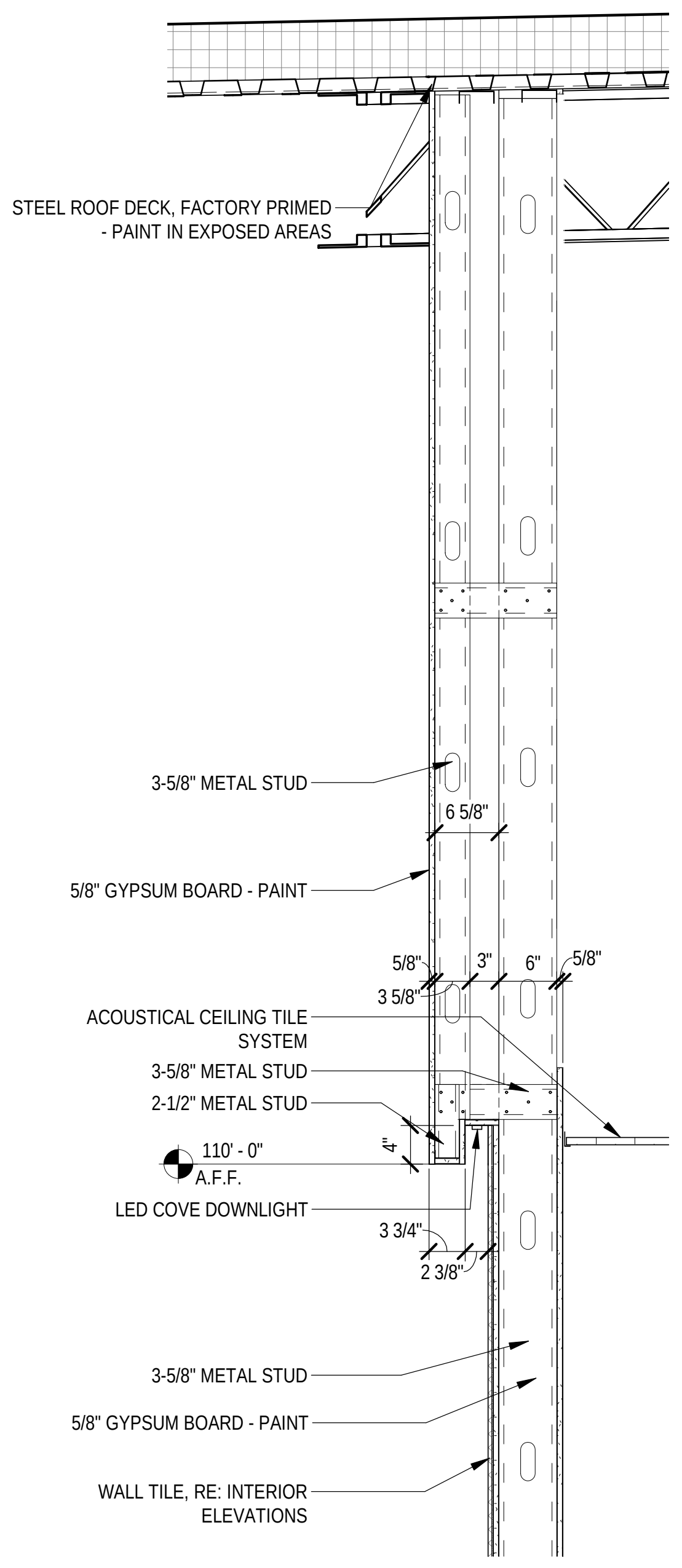
Ceiling Section 5
3/4" = 1'-0"


STEEL BEAM, RE: STRUCTURAL
HANGER RODS BY PARTITION MFG.
TRACK SYSTEM BRACKET MOUNT
BY PARTITION MFG.
5/8" GYPSUM BOARD - PAINT
ACOUSTICAL CEILING TILE
SYSTEM
4 1/4"
2"
110' - 0"
A.F.F.
5/8" GYPSUM BOARD - PAINT
FOLDING PANEL PARTITION

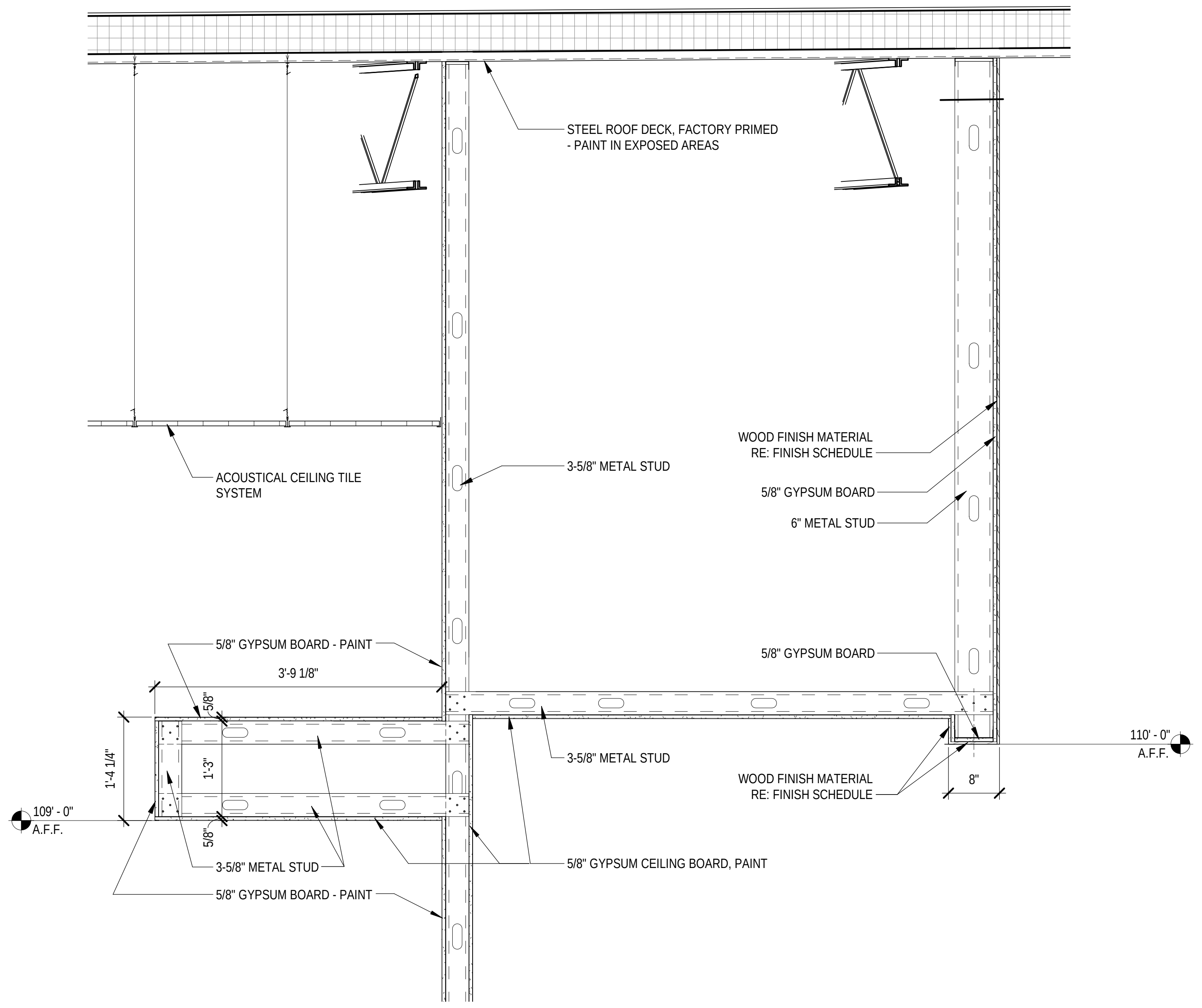
Ceiling Section 4
3/4" = 1'-0"



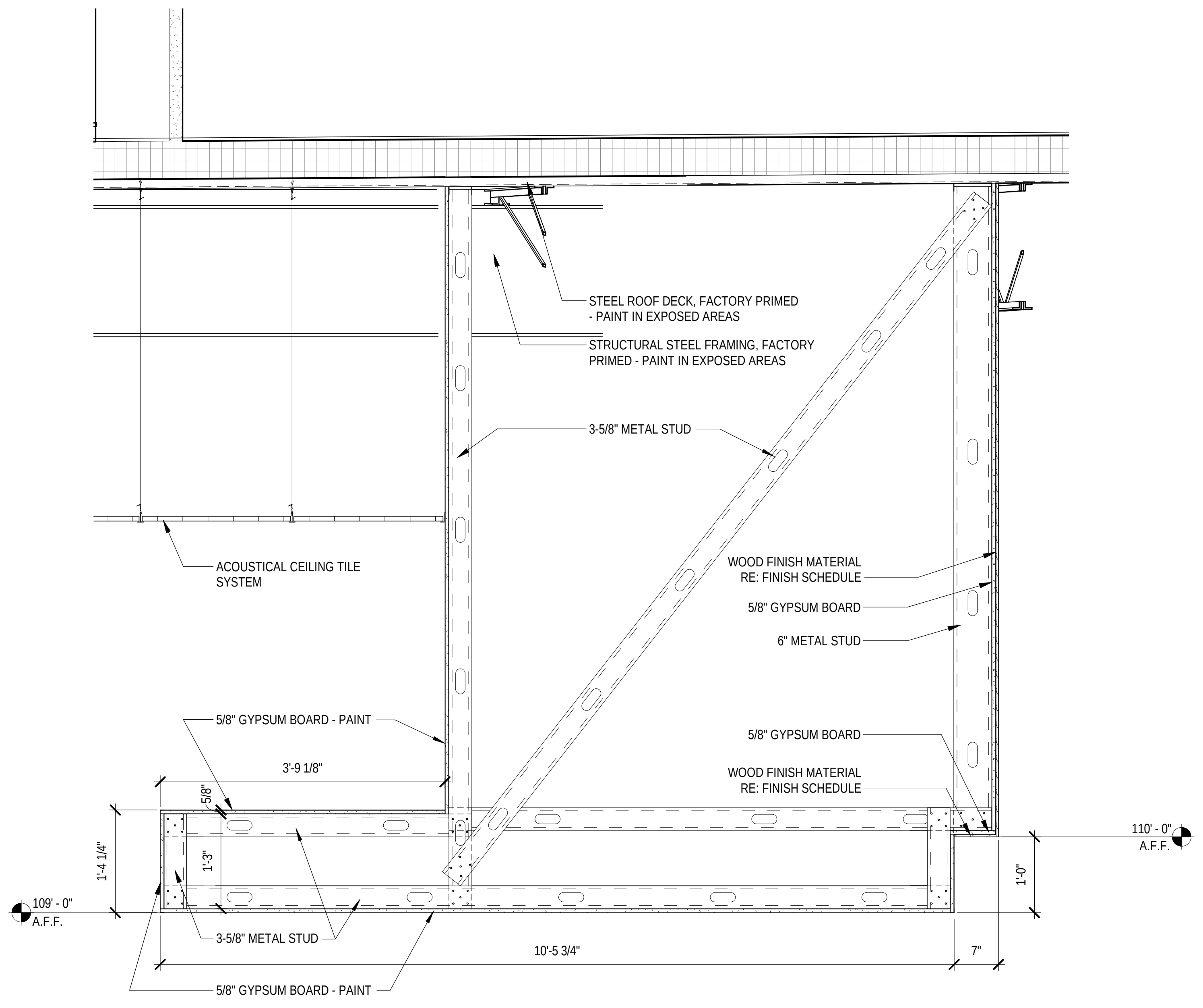
Ceiling Section 7
3/4" = 1'-0"



Ceiling Section 3
3/4" = 1'-0"



Ceiling Section 2
3/4" = 1'-0"



Ceiling Section 1
3/4" = 1'-0"

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A-6386
7-19-22

K1 SPEED LEE'S SUMMIT

Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:

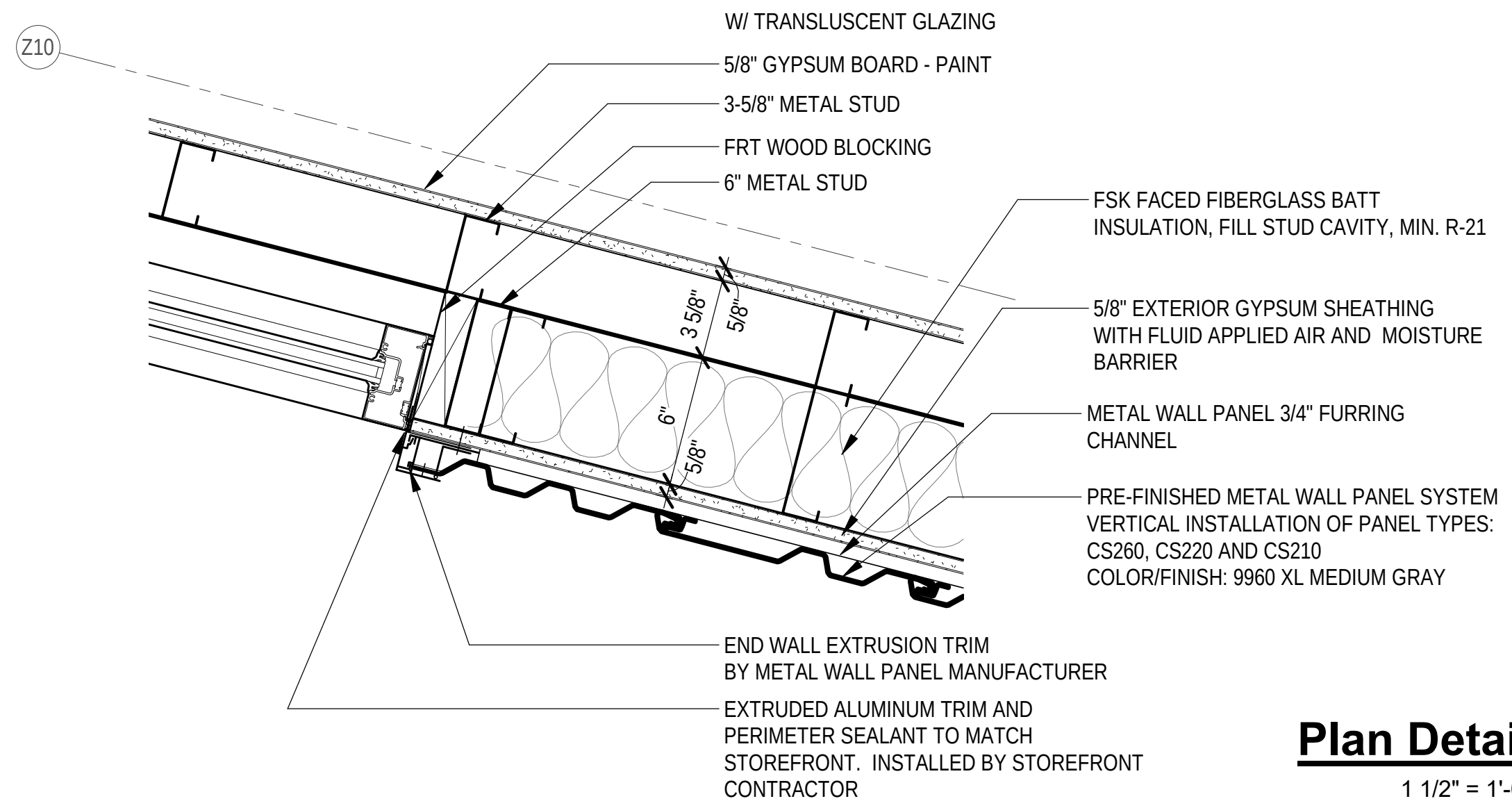
Project #: 211107

CONSTRUCTION DOCUMENTS

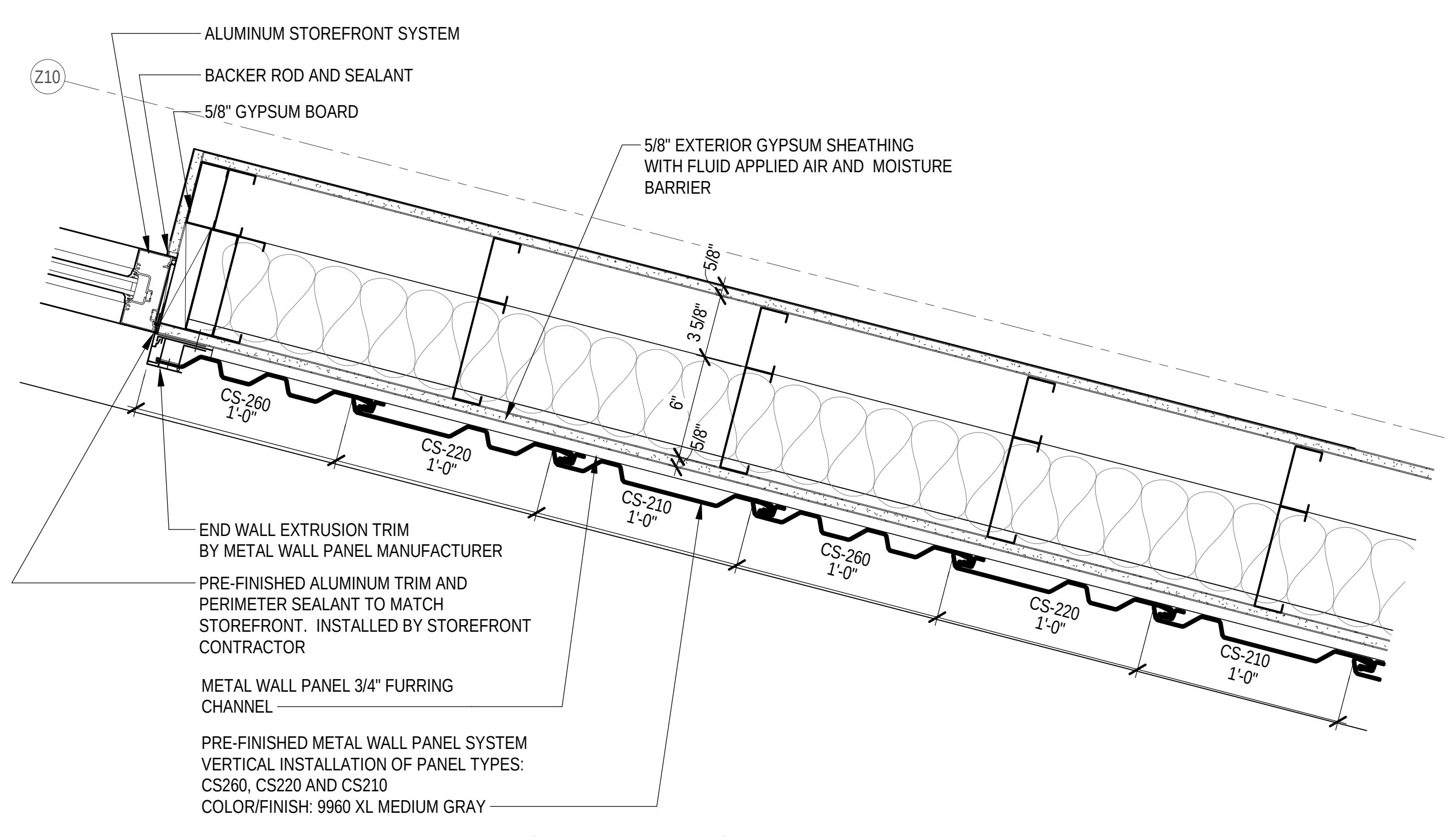
July 19, 2022

SOFFIT DETAILS

A-308

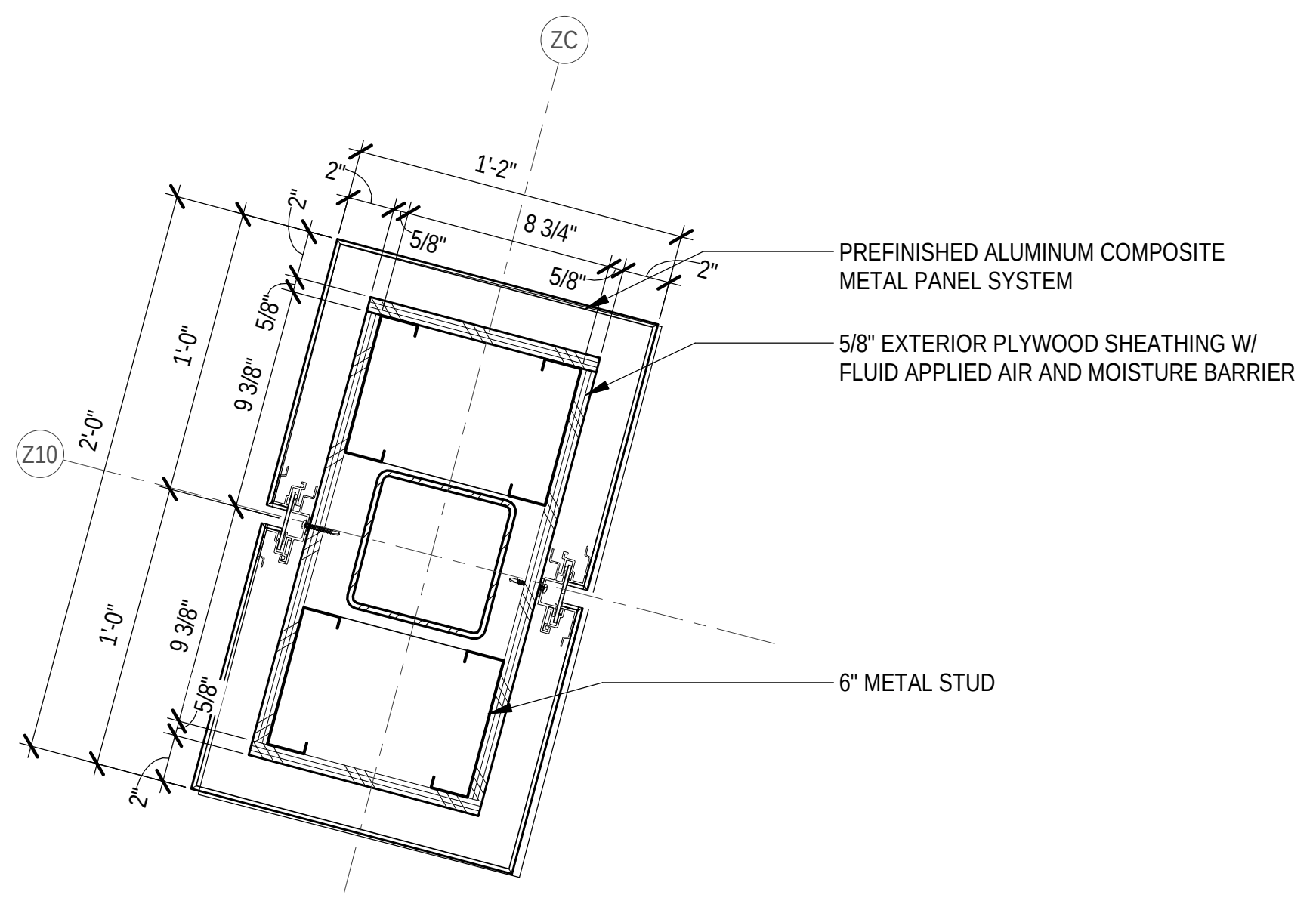

Z10
W/ TRANSLUSCENT GLAZING
5/8" GYPSUM BOARD - PAINT
3-5/8" METAL STUD
FRT WOOD BLOCKING
6" METAL STUD
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
METAL WALL PANEL 3/4" FURRING CHANNEL
PRE-FINISHED METAL WALL PANEL SYSTEM VERTICAL INSTALLATION OF PANEL TYPES: CS260, CS220 AND CS210 COLOR/FINISH: 9960 XL MEDIUM GRAY
END WALL EXTRUSION TRIM BY METAL WALL PANEL MANUFACTURER
EXTRUDED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH STOREFRONT. INSTALLED BY STOREFRONT CONTRACTOR
3 5/8"
5/8"
6"
5/8"

Plan Detail 17
1 1/2" = 1'-0"

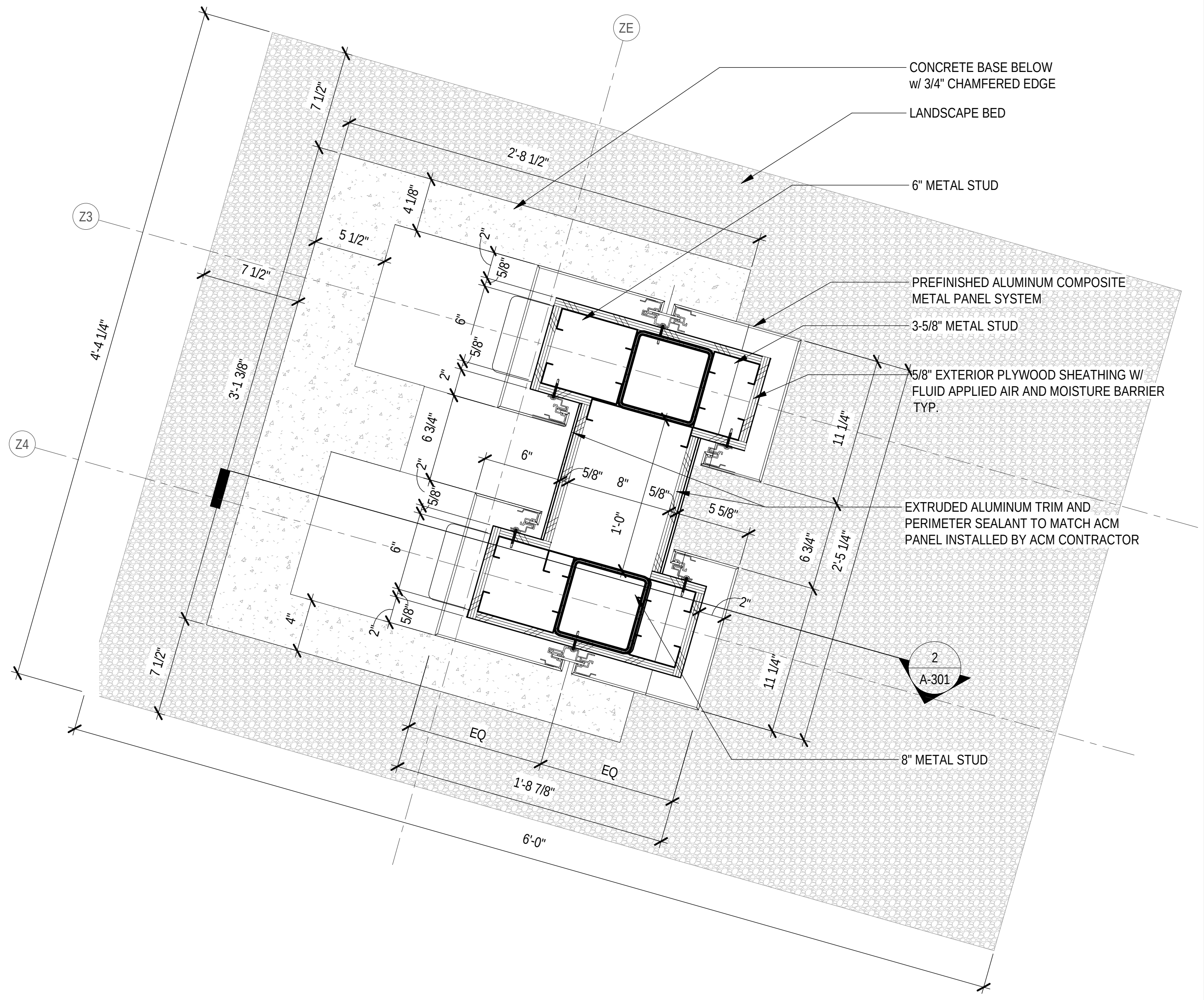

Z10
ALUMINUM STOREFRONT SYSTEM
BACKER ROD AND SEALANT
5/8" GYPSUM BOARD
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
5/8"
3 5/8"
6"
5/8"
CS-260 1'-0"
CS-220 1'-0"
CS-210 1'-0"
CS-260 1'-0"
CS-220 1'-0"
CS-210 1'-0"
END WALL EXTRUSION TRIM BY METAL WALL PANEL MANUFACTURER
PRE-FINISHED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH STOREFRONT. INSTALLED BY STOREFRONT CONTRACTOR
METAL WALL PANEL 3/4" FURRING CHANNEL
PRE-FINISHED METAL WALL PANEL SYSTEM VERTICAL INSTALLATION OF PANEL TYPES: CS260, CS220 AND CS210 COLOR/FINISH: 9960 XL MEDIUM GRAY

TYPICAL PANEL LAYOUT PLAN

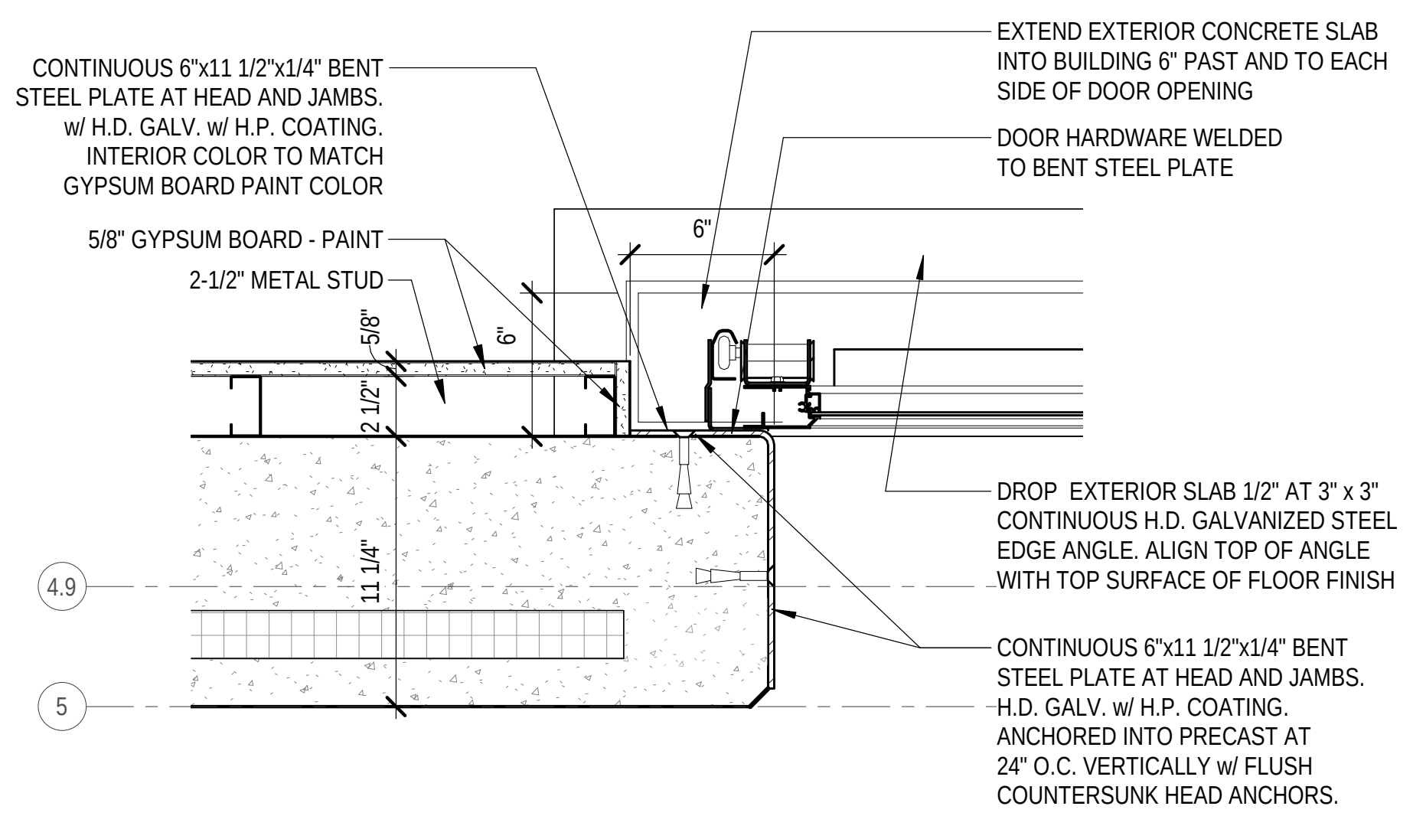
Plan Detail 16
1 1/2" = 1'-0"


ZC
Z10
1'-2"
8 3/4"
5/8"
5/8"
2"
2"
1'-0"
5/8"
9 3/8"
2'-0"
1'-0"
9 3/8"
5/8"
2"
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
5/8" EXTERIOR PLYWOOD SHEATHING W/ FLUID APPLIED AIR AND MOISTURE BARRIER
6" METAL STUD

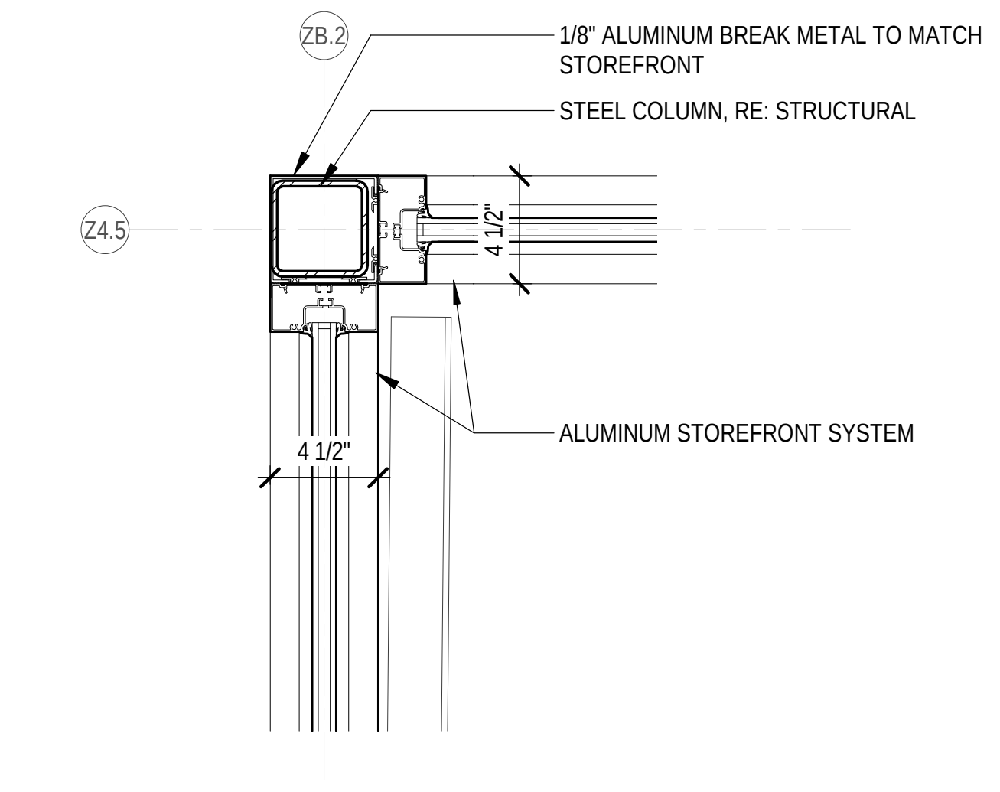
Plan Detail 15
1 1/2" = 1'-0"


ZE
Z3
Z4
CONCRETE BASE BELOW w/ 3/4" CHAMFERED EDGE
LANDSCAPE BED
6" METAL STUD
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
3-5/8" METAL STUD
5/8" EXTERIOR PLYWOOD SHEATHING W/ FLUID APPLIED AIR AND MOISTURE BARRIER TYP.
EXTRUDED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH ACM PANEL INSTALLED BY ACM CONTRACTOR
8" METAL STUD
2 A-301
7 1/2"
2'-8 1/2"
4 1/8"
5 1/2"
2"
5/8"
7 1/2"
6"
5/8"
2"
4'-4 1/4"
3'-1 3/8"
6 3/4"
6"
5/8"
8"
5/8"
5 5/8"
2"
5/8"
1'-0"
6"
4"
2"
5/8"
11 1/4"
6 3/4"
2'-5 1/4"
11 1/4"
2"
7 1/2"
EQ
EQ
1'-8 7/8"
6'-0"

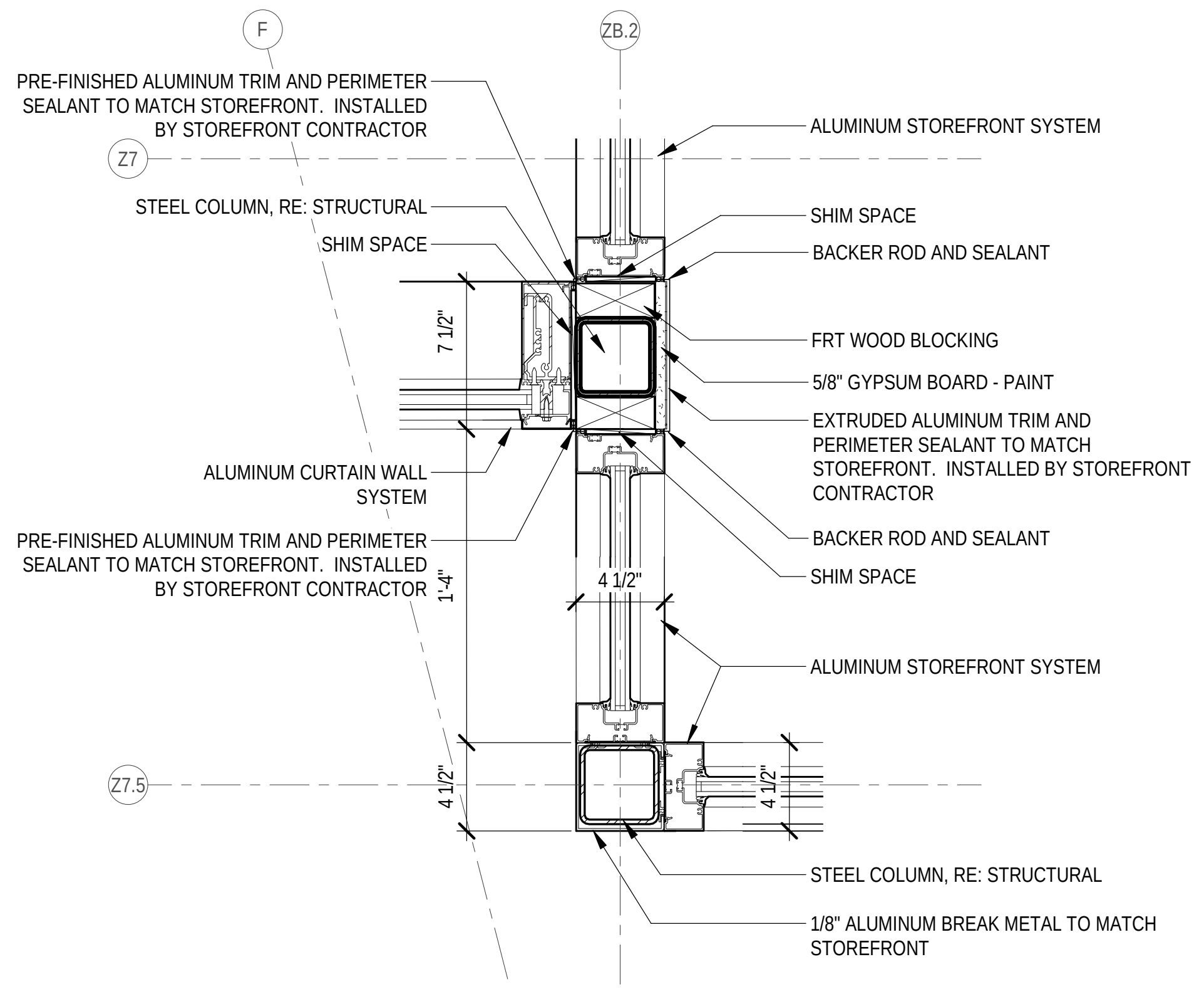
Plan Detail 14
1 1/2" = 1'-0"


CONTINUOUS 6"x11 1/2"x1/4" BENT STEEL PLATE AT HEAD AND JAMBS. w/ H.D. GALV. w/ H.P. COATING. INTERIOR COLOR TO MATCH GYPSUM BOARD PAINT COLOR
5/8" GYPSUM BOARD - PAINT
2-1/2" METAL STUD
EXTEND EXTERIOR CONCRETE SLAB INTO BUILDING 6" PAST AND TO EACH SIDE OF DOOR OPENING
DOOR HARDWARE WELDED TO BENT STEEL PLATE
DROP EXTERIOR SLAB 1/2" AT 3" x 3" CONTINUOUS H.D. GALVANIZED STEEL EDGE ANGLE. ALIGN TOP OF ANGLE WITH TOP SURFACE OF FLOOR FINISH
CONTINUOUS 6"x11 1/2"x1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
4.9
5
6"
6"
5/8"
2 1/2"
11 1/4"

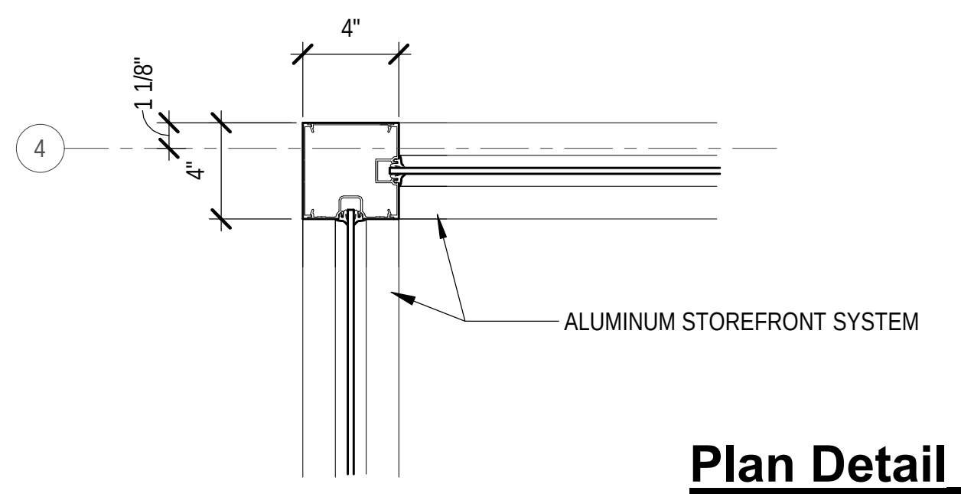
Plan Detail 13
1 1/2" = 1'-0"


ZB.2
Z4.5
1/8" ALUMINUM BREAK METAL TO MATCH STOREFRONT
STEEL COLUMN, RE: STRUCTURAL
ALUMINUM STOREFRONT SYSTEM
4 1/2"
4 1/2"

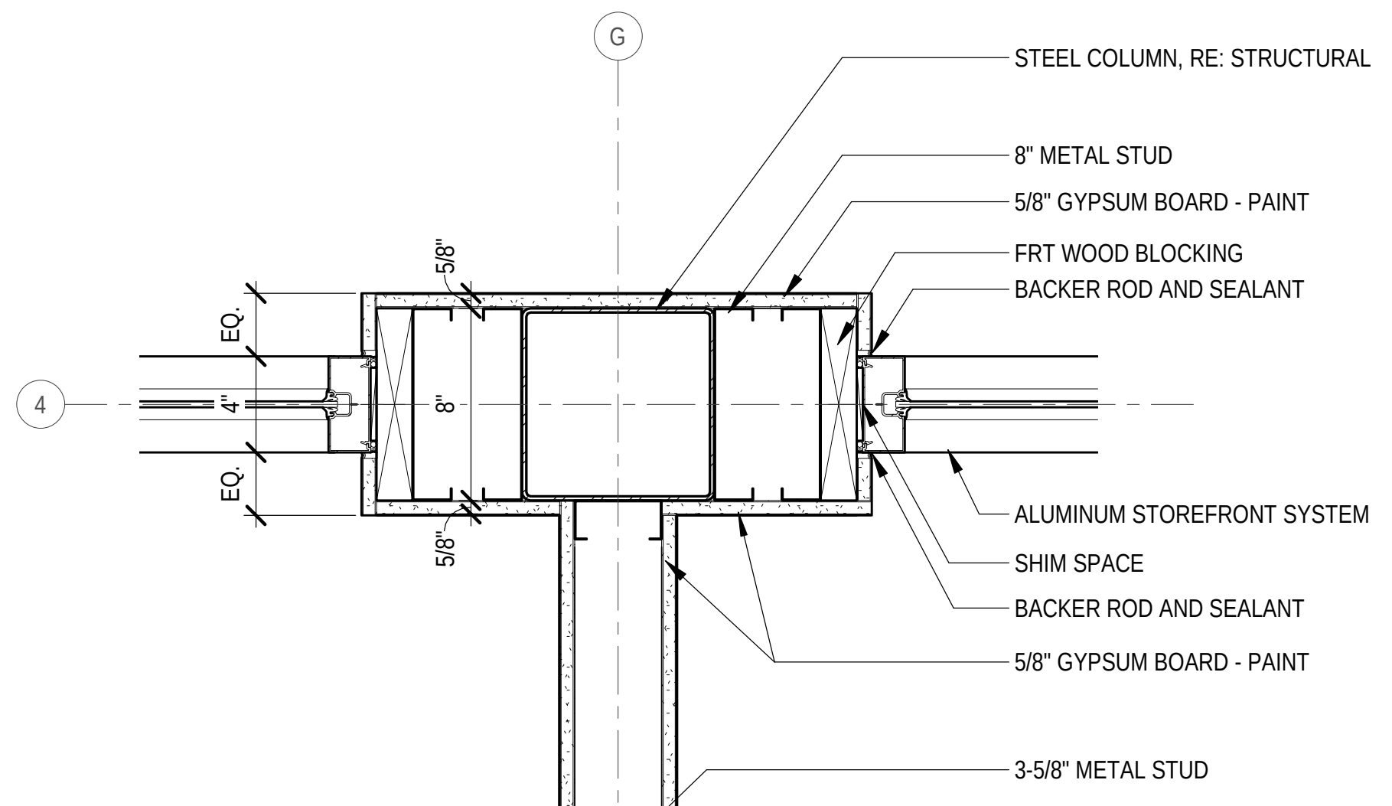
Plan Detail 12
1 1/2" = 1'-0"


F
ZB.2
Z7
Z7.5
PRE-FINISHED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH STOREFRONT. INSTALLED BY STOREFRONT CONTRACTOR
STEEL COLUMN, RE: STRUCTURAL
SHIM SPACE
ALUMINUM CURTAIN WALL SYSTEM
PRE-FINISHED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH STOREFRONT. INSTALLED BY STOREFRONT CONTRACTOR
ALUMINUM STOREFRONT SYSTEM
SHIM SPACE
BACKER ROD AND SEALANT
FRT WOOD BLOCKING
5/8" GYPSUM BOARD - PAINT
EXTRUDED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH STOREFRONT. INSTALLED BY STOREFRONT CONTRACTOR
BACKER ROD AND SEALANT
SHIM SPACE
ALUMINUM STOREFRONT SYSTEM
STEEL COLUMN, RE: STRUCTURAL
1/8" ALUMINUM BREAK METAL TO MATCH STOREFRONT
7 1/2"
4 1/2"
1/4"
4 1/2"
4 1/2"

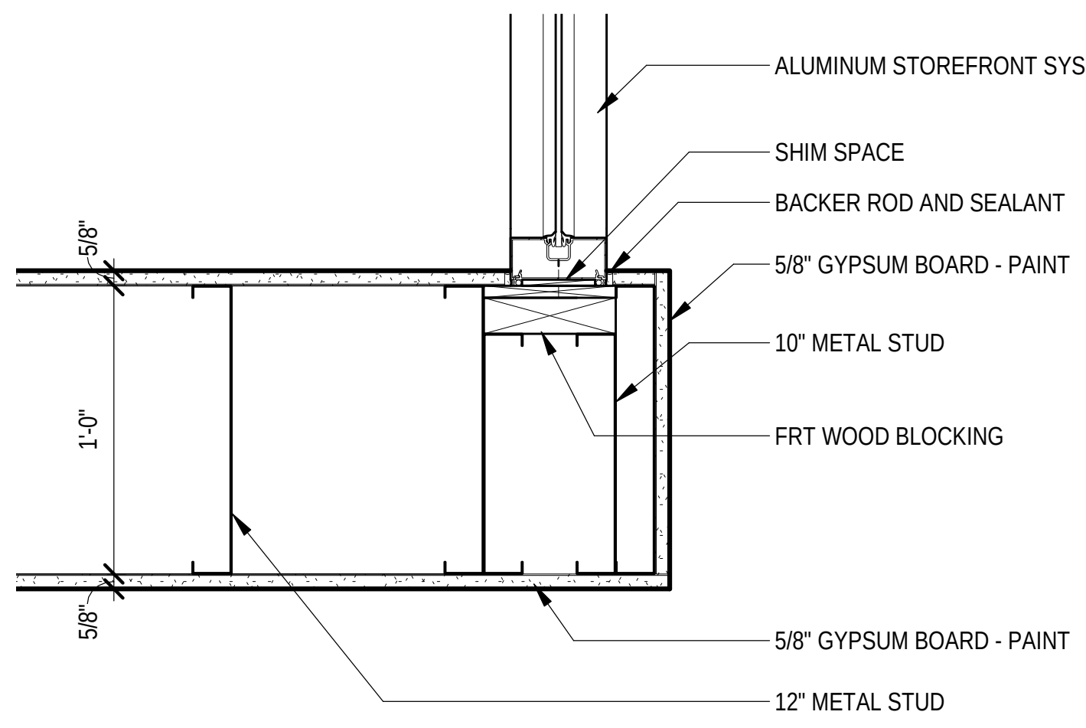
Plan Detail 11
1 1/2" = 1'-0"



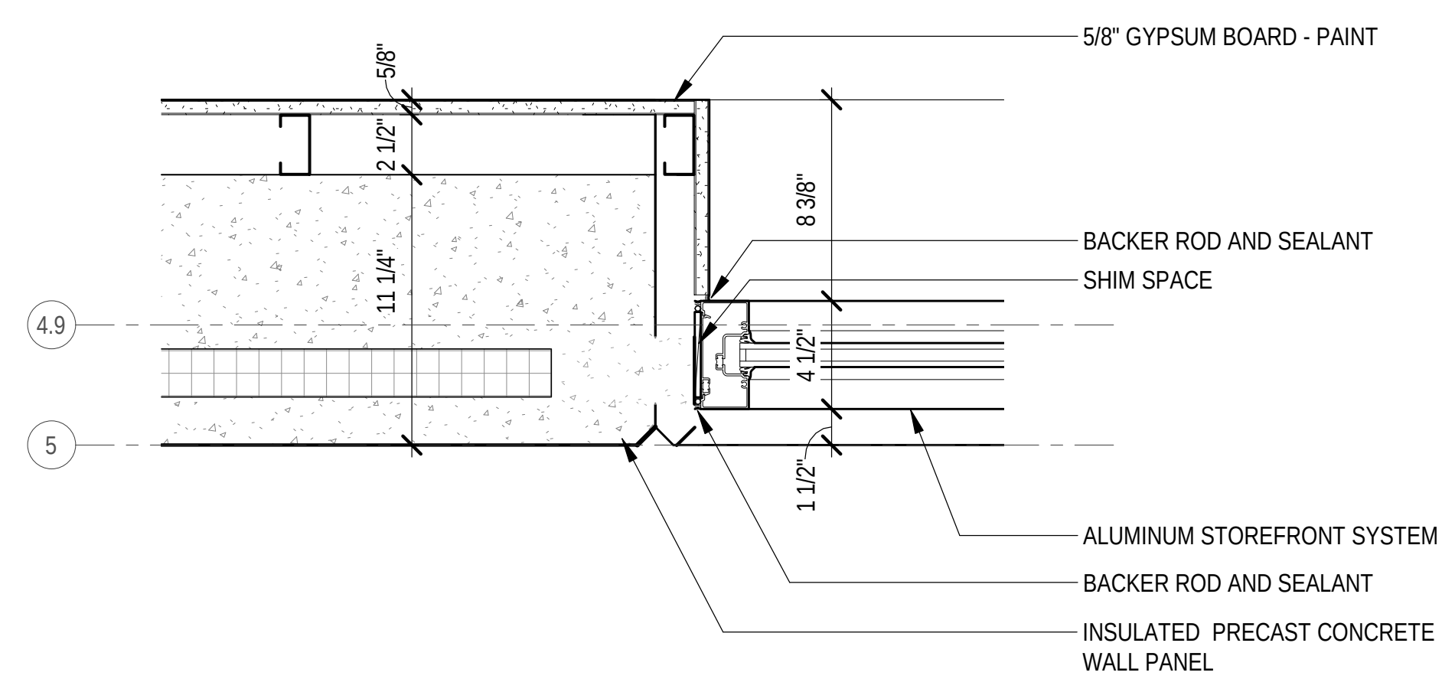
Plan Detail 10
1 1/2" = 1'-0"



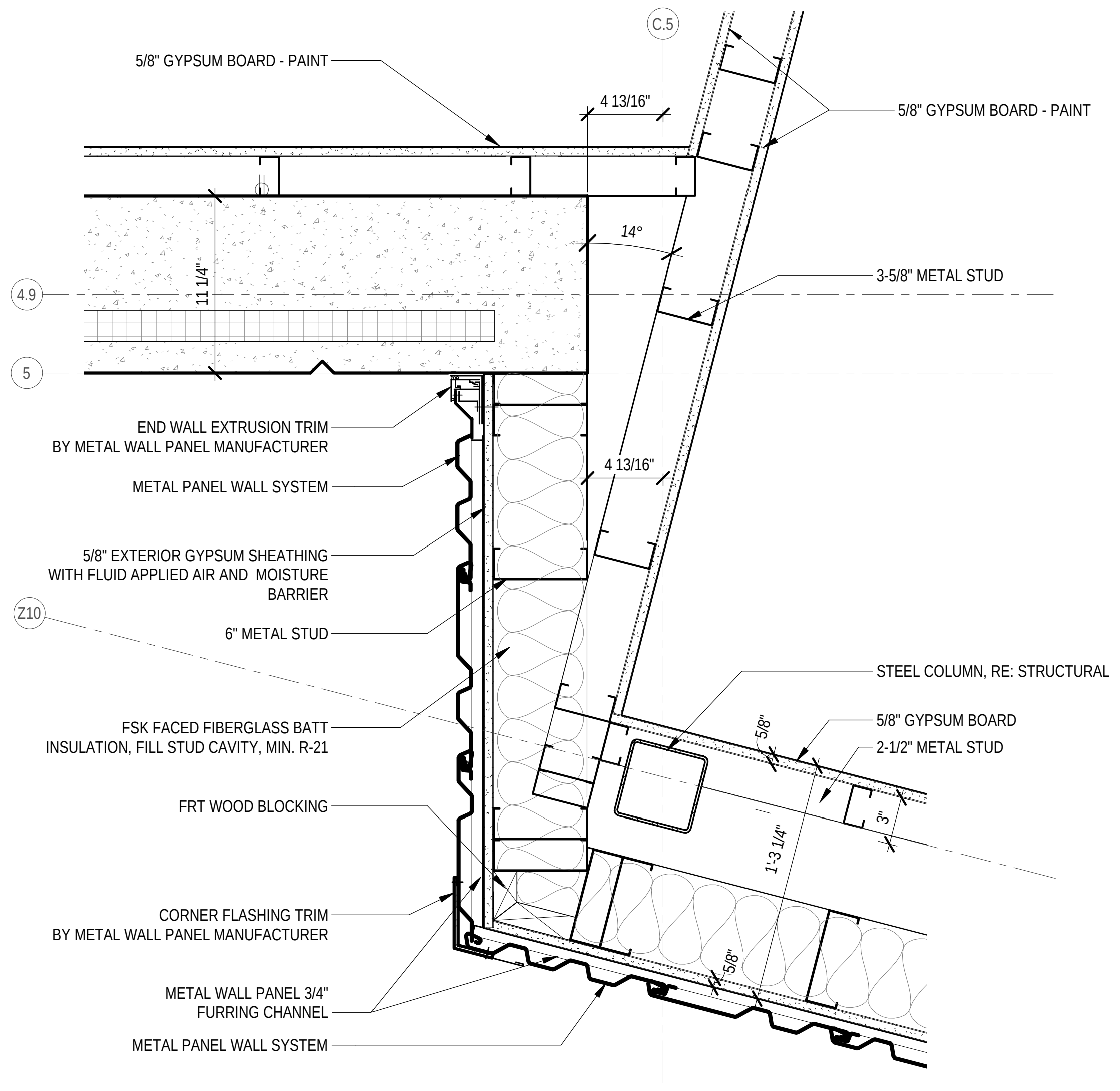
Plan Detail 9
1 1/2" = 1'-0"



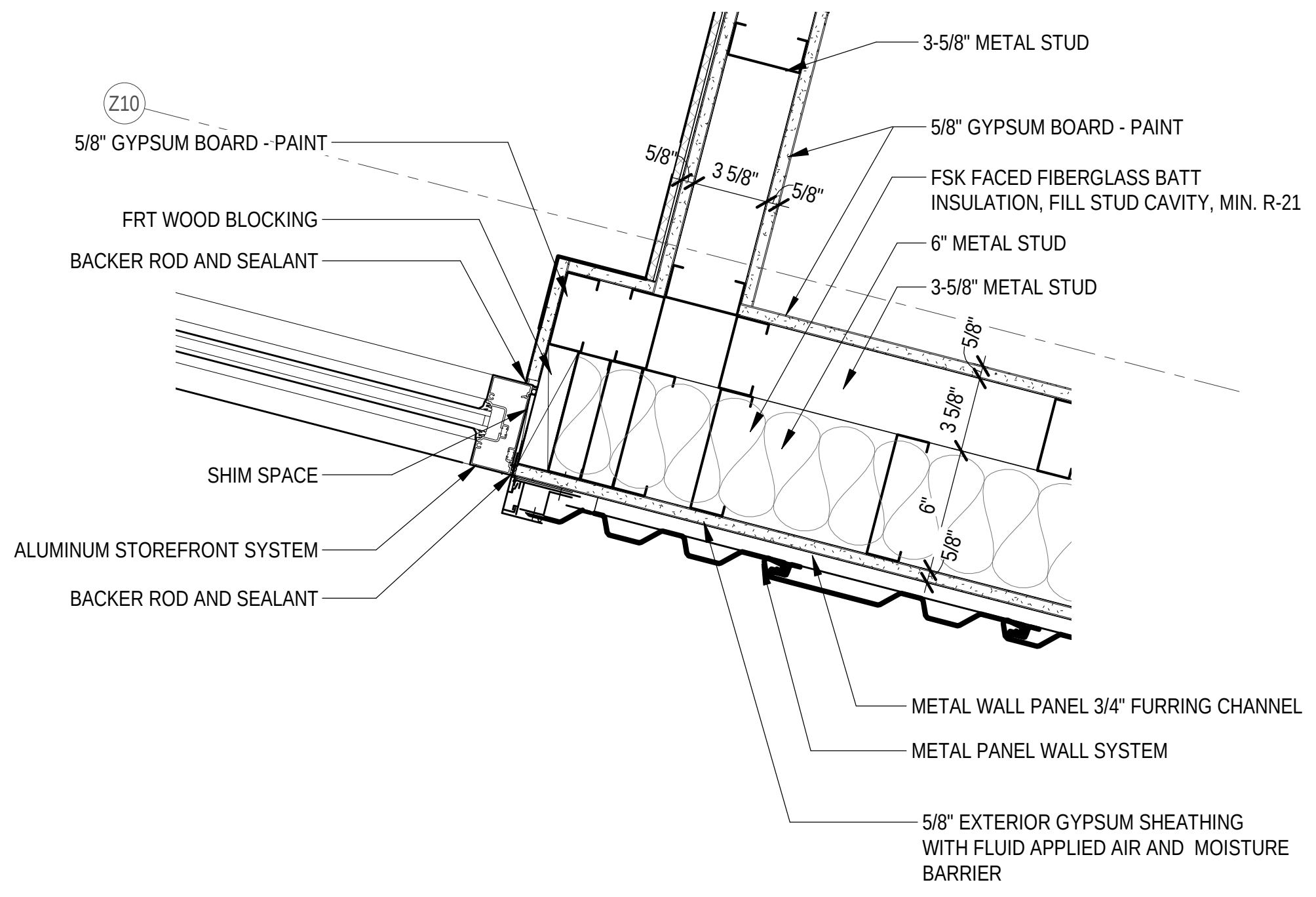
Plan Detail 8
1 1/2" = 1'-0"



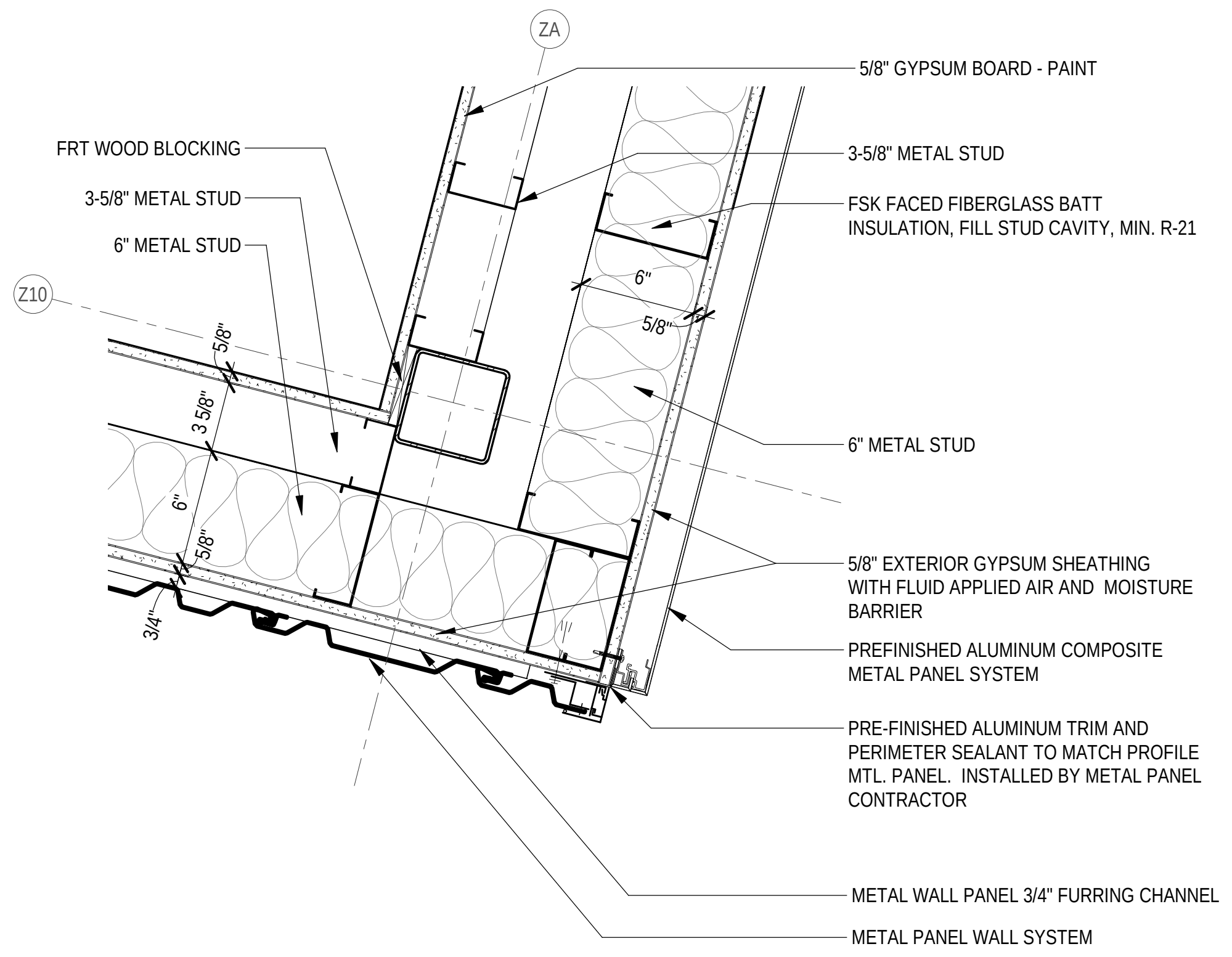
Plan Detail 7
1 1/2" = 1'-0"


C.5
4.9
5
Z10
5/8" GYPSUM BOARD - PAINT
4 13/16"
5/8" GYPSUM BOARD - PAINT
14"
3-5/8" METAL STUD
11 1/4"
END WALL EXTRUSION TRIM BY METAL WALL PANEL MANUFACTURER
METAL PANEL WALL SYSTEM
4 13/16"
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
6" METAL STUD
STEEL COLUMN, RE: STRUCTURAL
5/8" GYPSUM BOARD
2-1/2" METAL STUD
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
FRT WOOD BLOCKING
1'-3 1/4"
CORNER FLASHING TRIM BY METAL WALL PANEL MANUFACTURER
METAL WALL PANEL 3/4" FURRING CHANNEL
METAL PANEL WALL SYSTEM
5/8"
5/8"

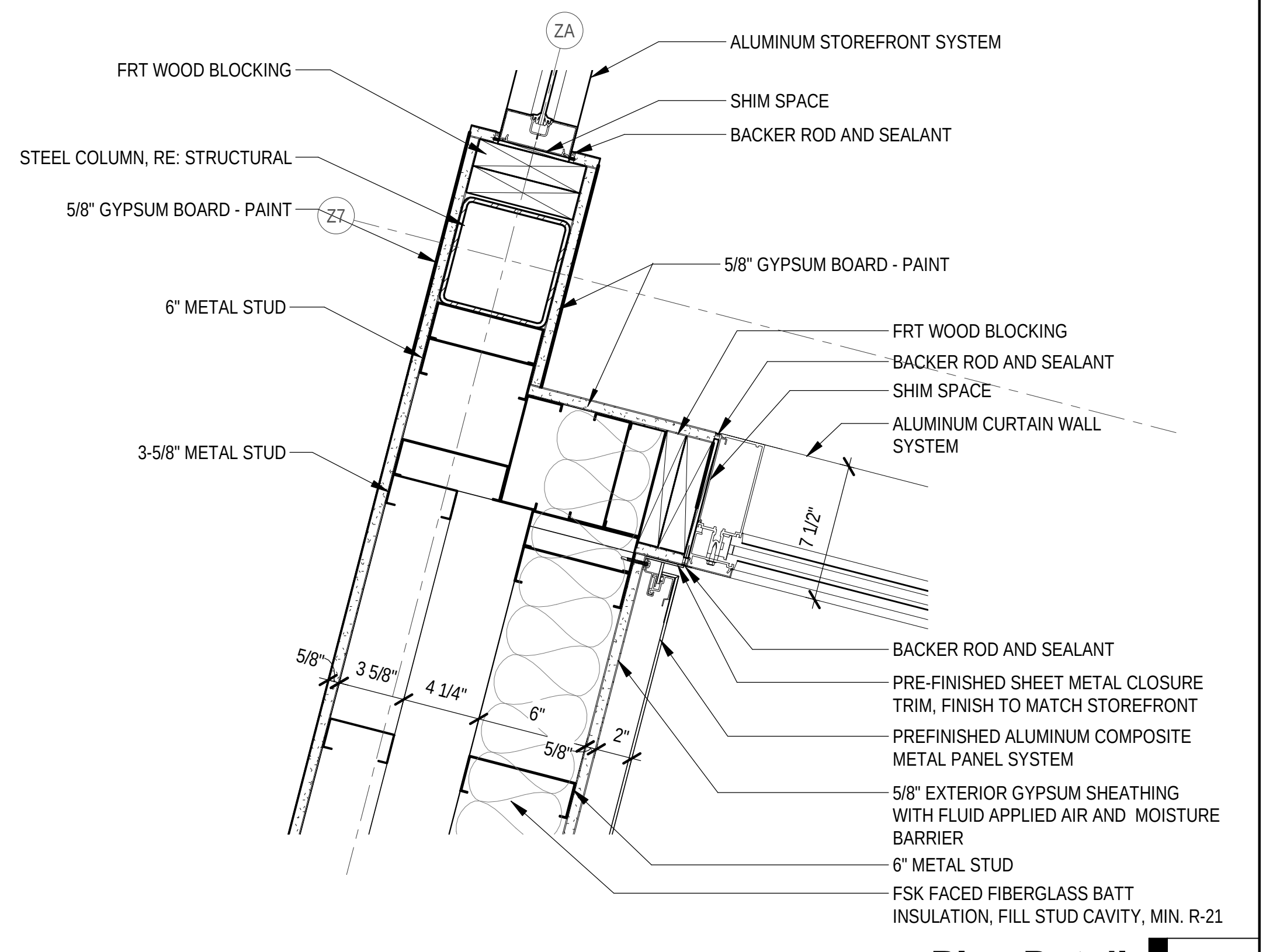
Plan Detail 6
1 1/2" = 1'-0"


Z10
5/8" GYPSUM BOARD - PAINT
FRT WOOD BLOCKING
BACKER ROD AND SEALANT
SHIM SPACE
ALUMINUM STOREFRONT SYSTEM
BACKER ROD AND SEALANT
3-5/8" METAL STUD
5/8" GYPSUM BOARD - PAINT
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
6" METAL STUD
3-5/8" METAL STUD
METAL WALL PANEL 3/4" FURRING CHANNEL
METAL PANEL WALL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
5/8"
3 5/8"
5/8"
5/8"
3 5/8"
6"
5/8"

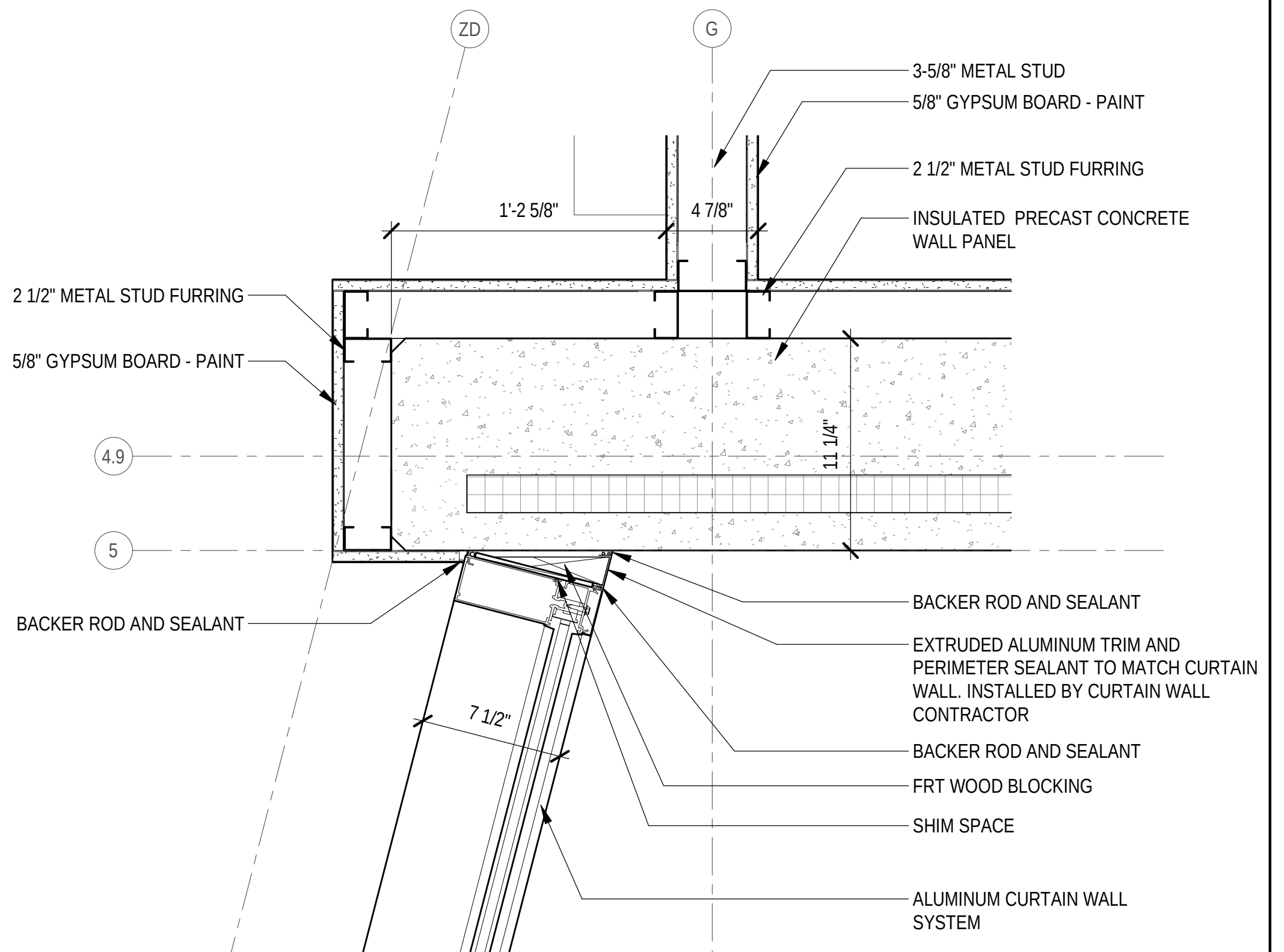
Plan Detail 5
1 1/2" = 1'-0"


ZA
Z10
5/8" GYPSUM BOARD - PAINT
FRT WOOD BLOCKING
3-5/8" METAL STUD
6" METAL STUD
3-5/8" METAL STUD
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
6" METAL STUD
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
PRE-FINISHED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH PROFILE MTL PANEL. INSTALLED BY METAL PANEL CONTRACTOR
METAL WALL PANEL 3/4" FURRING CHANNEL
METAL PANEL WALL SYSTEM
5/8"
3 5/8"
6"
5/8"
3/4"
6"
5/8"

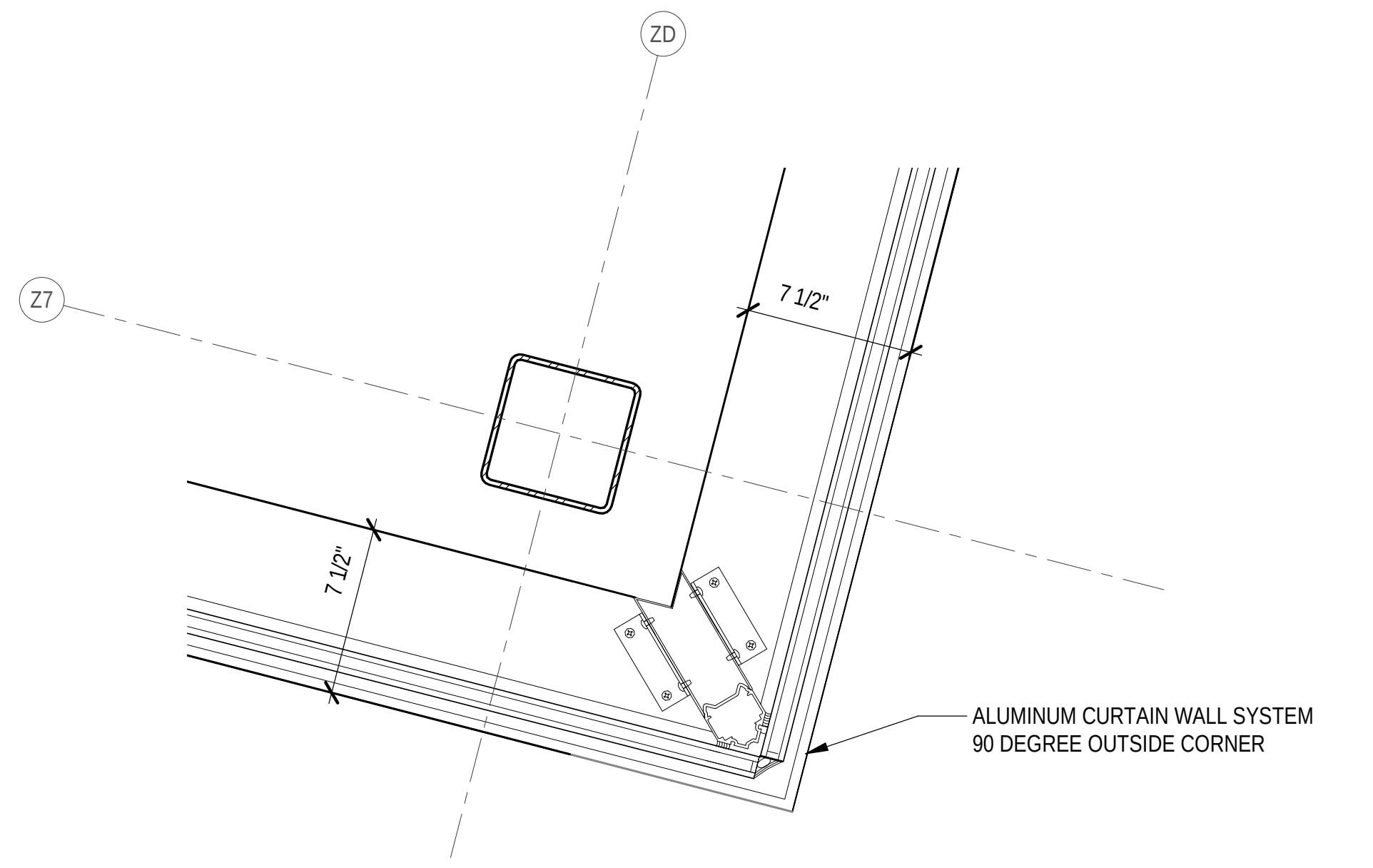
Plan Detail 4
1 1/2" = 1'-0"


ZA
Z7
FRT WOOD BLOCKING
STEEL COLUMN, RE: STRUCTURAL
5/8" GYPSUM BOARD - PAINT
6" METAL STUD
3-5/8" METAL STUD
ALUMINUM STOREFRONT SYSTEM
SHIM SPACE
BACKER ROD AND SEALANT
5/8" GYPSUM BOARD - PAINT
FRT WOOD BLOCKING
BACKER ROD AND SEALANT
SHIM SPACE
ALUMINUM CURTAIN WALL SYSTEM
BACKER ROD AND SEALANT
PRE-FINISHED SHEET METAL CLOSURE TRIM, FINISH TO MATCH STOREFRONT
PREFINISHED ALUMINUM COMPOSITE METAL PANEL SYSTEM
5/8" EXTERIOR GYPSUM SHEATHING WITH FLUID APPLIED AIR AND MOISTURE BARRIER
6" METAL STUD
FSK FACED FIBERGLASS BATT INSULATION, FILL STUD CAVITY, MIN. R-21
7 1/2"
5/8"
3 5/8"
4 1/4"
6"
5/8"
2"

Plan Detail 3
1 1/2" = 1'-0"


ZD
G
4.9
5
3-5/8" METAL STUD
5/8" GYPSUM BOARD - PAINT
2 1/2" METAL STUD FURRING
INSULATED PRECAST CONCRETE WALL PANEL
2 1/2" METAL STUD FURRING
5/8" GYPSUM BOARD - PAINT
1'-2 5/8"
4 7/8"
11 1/4"
BACKER ROD AND SEALANT
BACKER ROD AND SEALANT
EXTRUDED ALUMINUM TRIM AND PERIMETER SEALANT TO MATCH CURTAIN WALL. INSTALLED BY CURTAIN WALL CONTRACTOR
BACKER ROD AND SEALANT
FRT WOOD BLOCKING
SHIM SPACE
ALUMINUM CURTAIN WALL SYSTEM
7 1/2"

Plan Detail 2
1 1/2" = 1'-0"



Plan Detail 1
1 1/2" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
09/20/2022

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K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

BUILDING DETAILS

A-401

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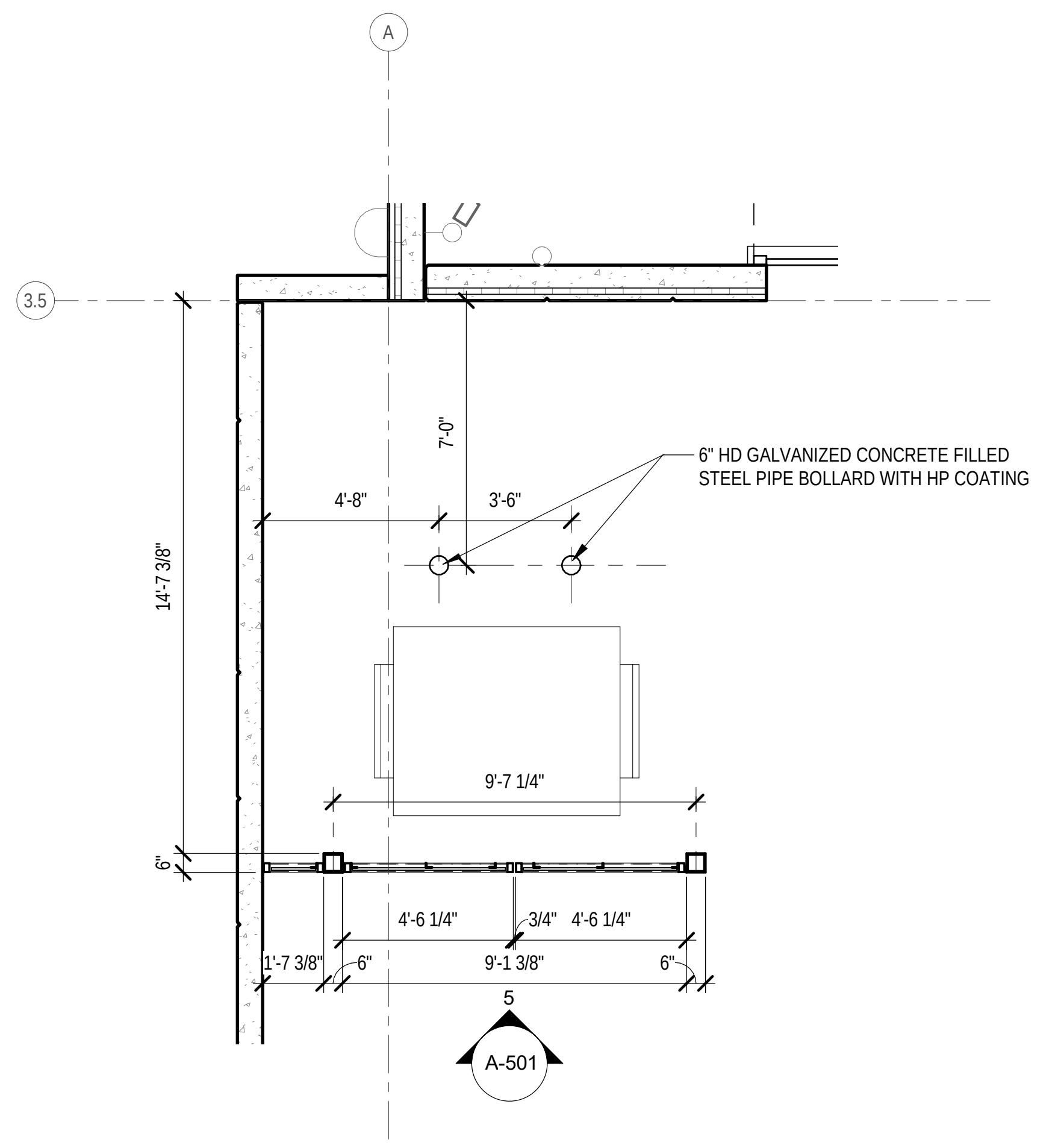
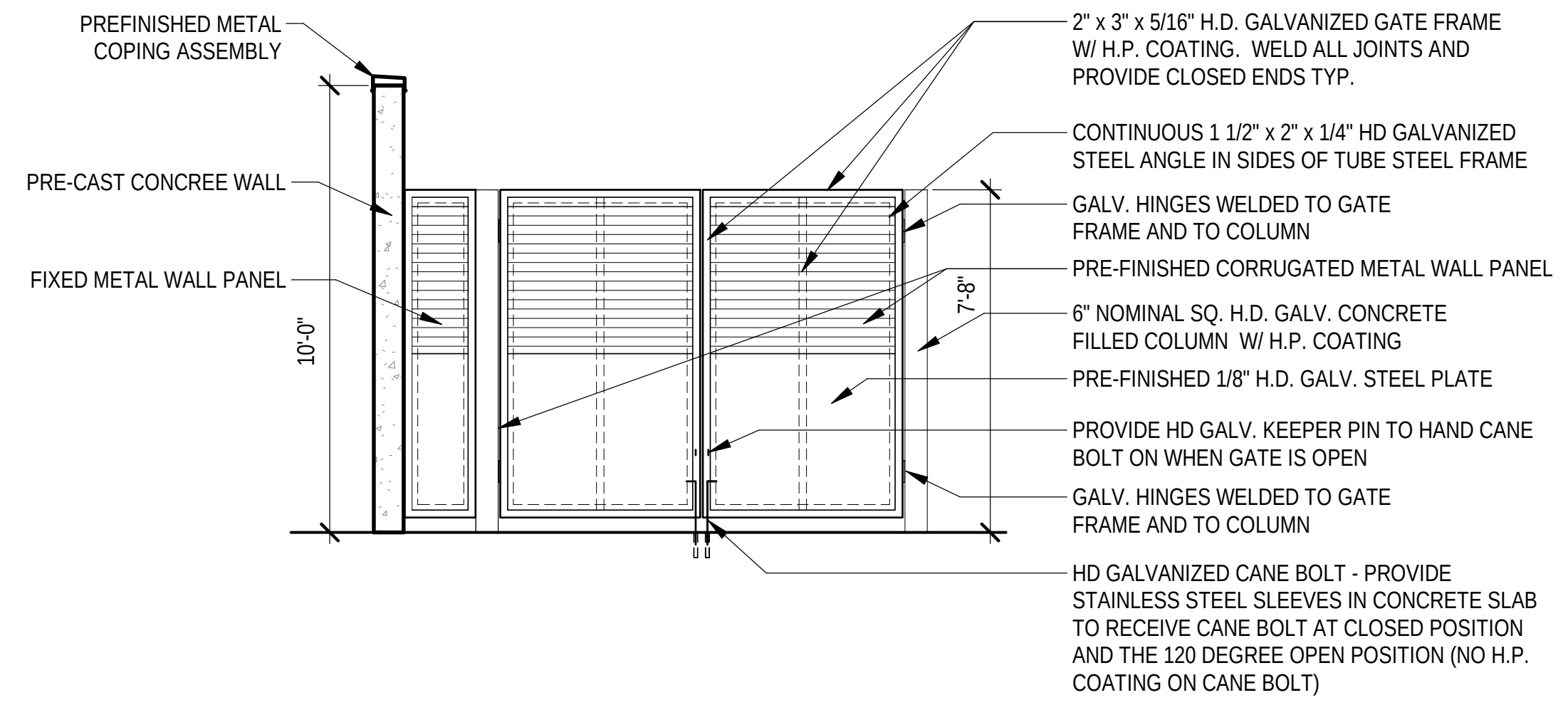
09/20/2022



Enlarged Plan - Dumpster

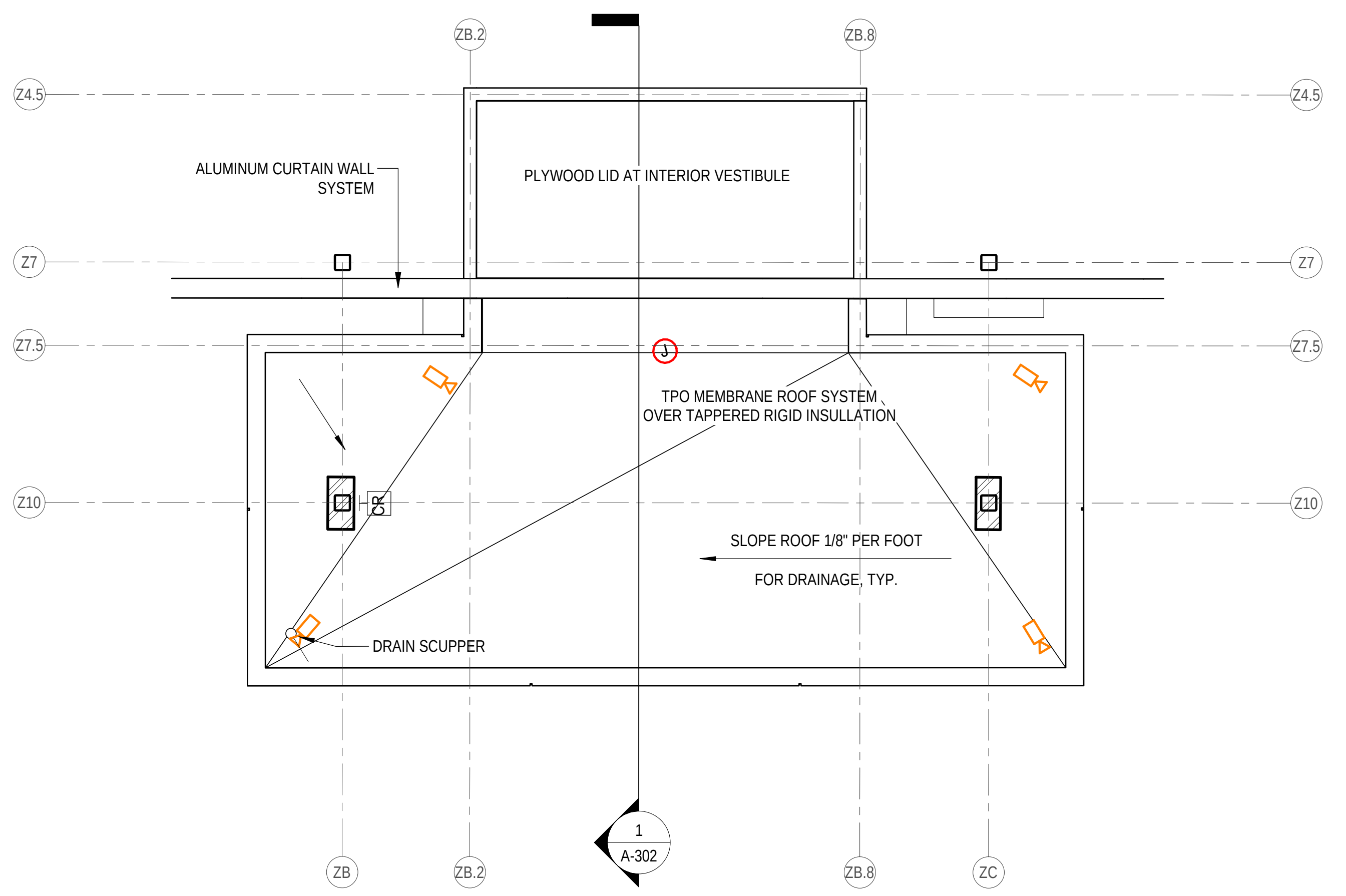
1/4" = 1'-0" 6


PREFINISHED METAL COPING ASSEMBLY
PRE-CAST CONCREE WALL
FIXED METAL WALL PANEL
10'-0"
7'-8"
2" x 3" x 5/16" H.D. GALVANIZED GATE FRAME W/ H.P. COATING. WELD ALL JOINTS AND PROVIDE CLOSED ENDS TYP.
CONTINUOUS 1 1/2" x 2" x 1/4" HD GALVANIZED STEEL ANGLE IN SIDES OF TUBE STEEL FRAME
GALV. HINGES WELDED TO GATE FRAME AND TO COLUMN
PRE-FINISHED CORRUGATED METAL WALL PANEL
6" NOMINAL SQ. H.D. GALV. CONCRETE FILLED COLUMN W/ H.P. COATING
PRE-FINISHED 1/8" H.D. GALV. STEEL PLATE
PROVIDE HD GALV. KEEPER PIN TO HAND CANE BOLT ON WHEN GATE IS OPEN
GALV. HINGES WELDED TO GATE FRAME AND TO COLUMN
HD GALVANIZED CANE BOLT - PROVIDE STAINLESS STEEL SLEEVES IN CONCRETE SLAB TO RECEIVE CANE BOLT AT CLOSED POSITION AND THE 120 DEGREE OPEN POSITION (NO H.P. COATING ON CANE BOLT)

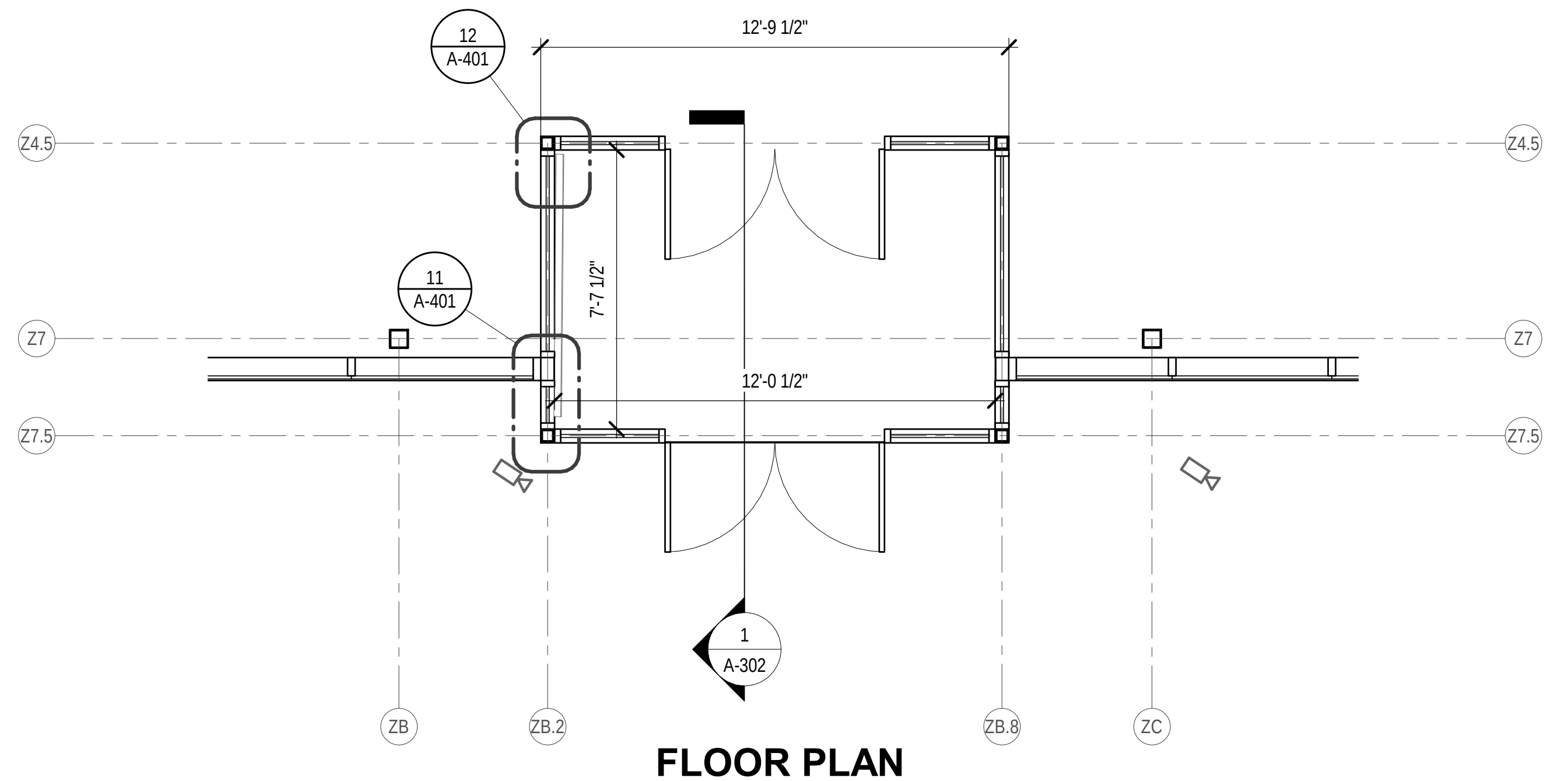
NOTE:
ALL METAL COMPONENTS SHALL BE HOT DIPPED GALV. AND RECEIVE H.P. COATING
ALL OPEN TUBE ENDS SHALL BE CAPPED WITH STEEL PLATES
ALL WELDS SHALL BE GROUND SMOOTH

Trash Enclosure Elevation

1/4" = 1'-0" 5


ZB.2
ZB.8
Z4.5
Z7
Z7.5
Z10
ALUMINUM CURTAIN WALL SYSTEM
PLYWOOD LID AT INTERIOR VESTIBULE
TPO MEMBRANE ROOF SYSTEM OVER TAPPERED RIGID INSULLATION
SLOPE ROOF 1/8" PER FOOT
FOR DRAINAGE, TYP.
DRAIN SCUPPER
CR
1
A-302
ZB
ZC

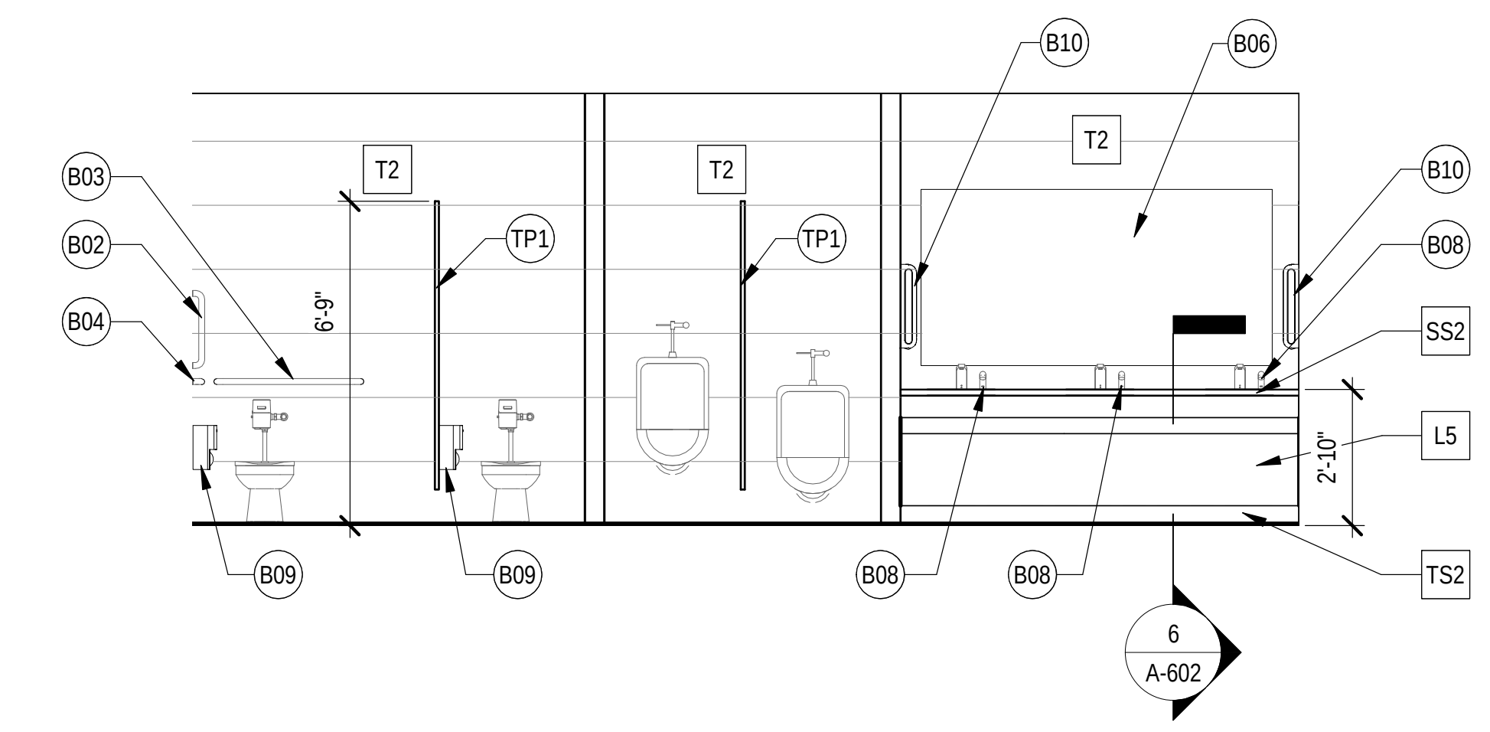
ROOF PLAN



FLOOR PLAN

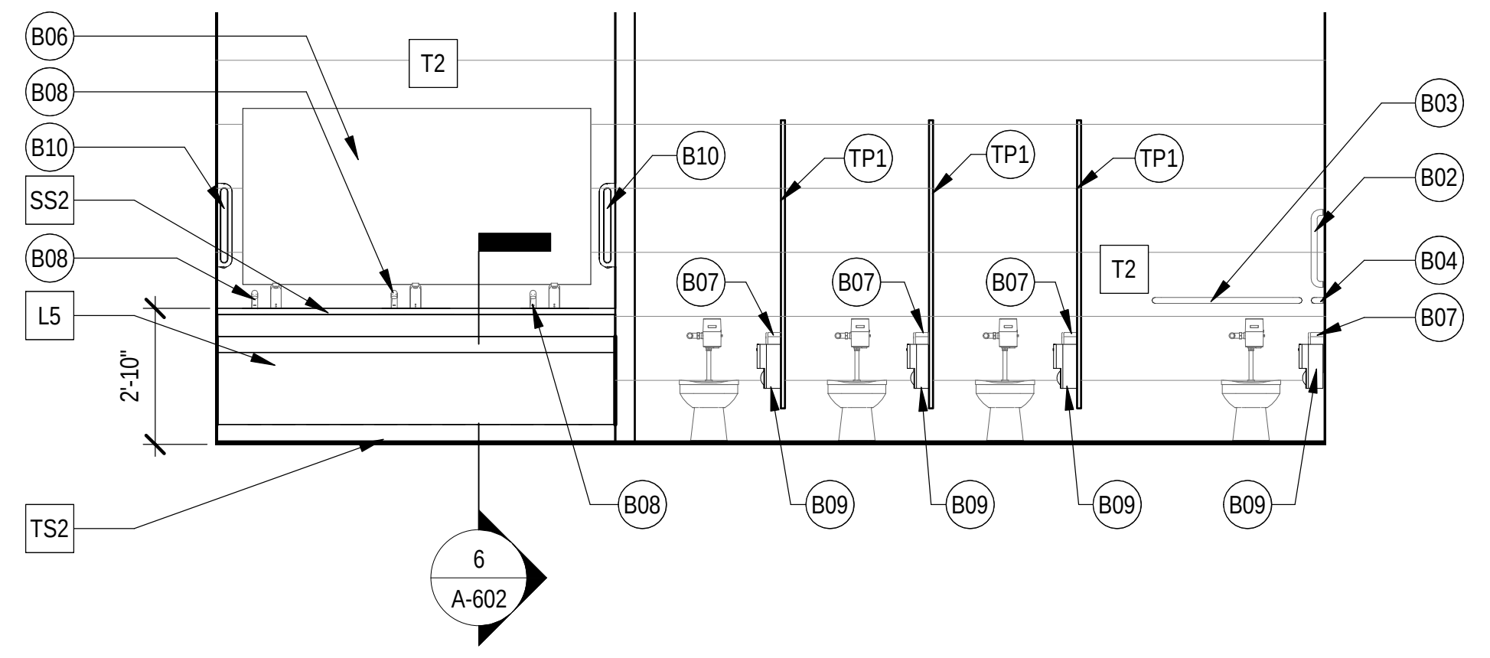
Enlarged Plan - Vestibule

1/4" = 1'-0" 4



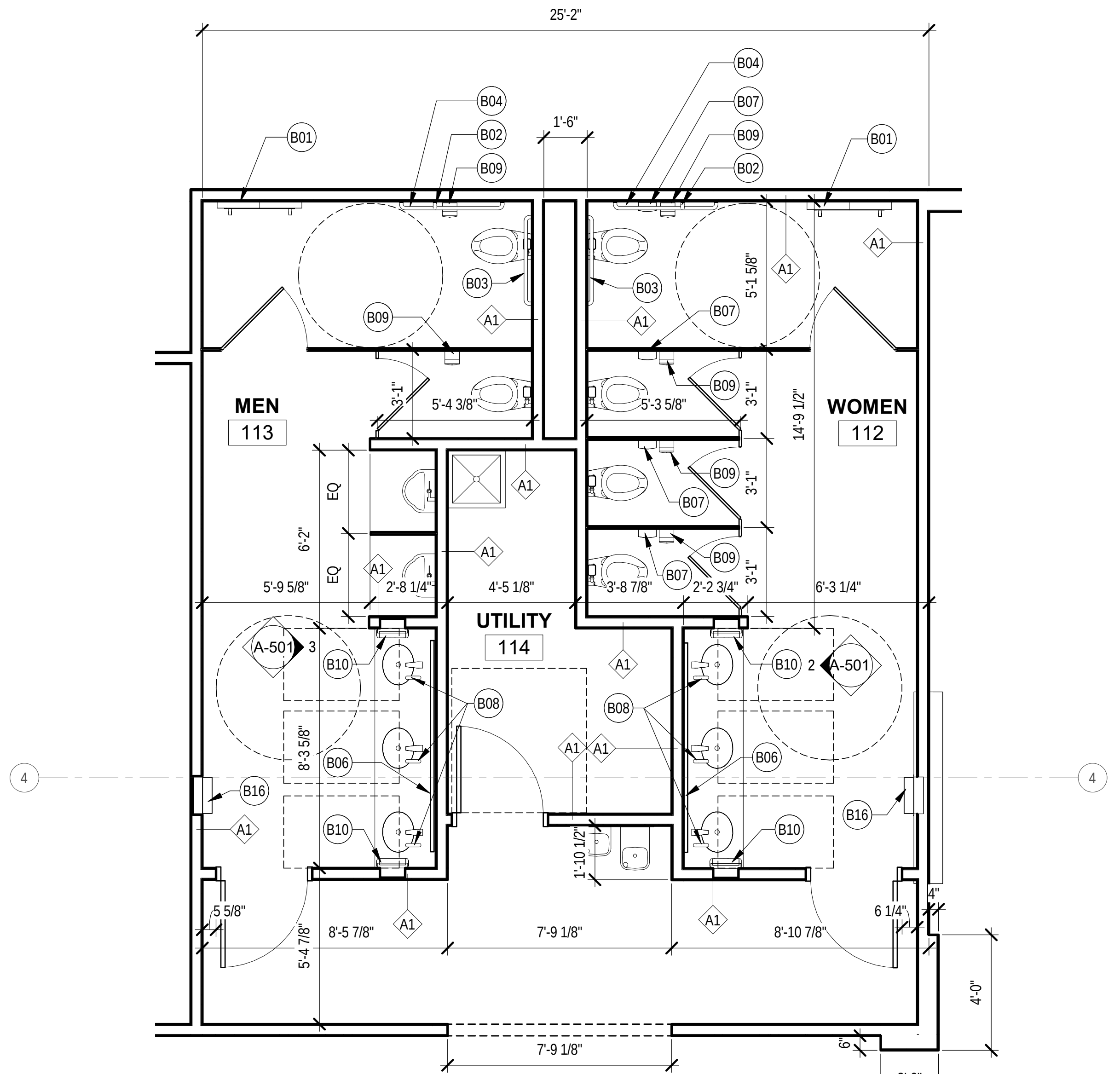
Interior Elevation - Men

1/4" = 1'-0" 3



Interior Elevation - Women

1/4" = 1'-0" 2

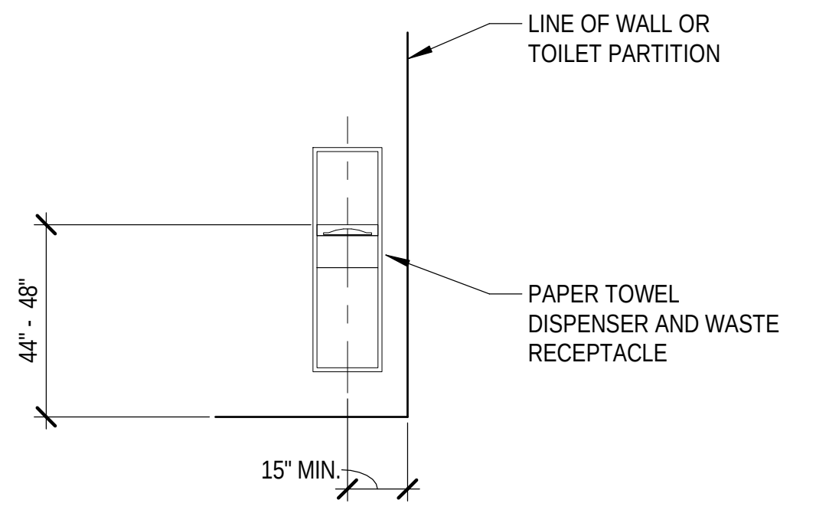


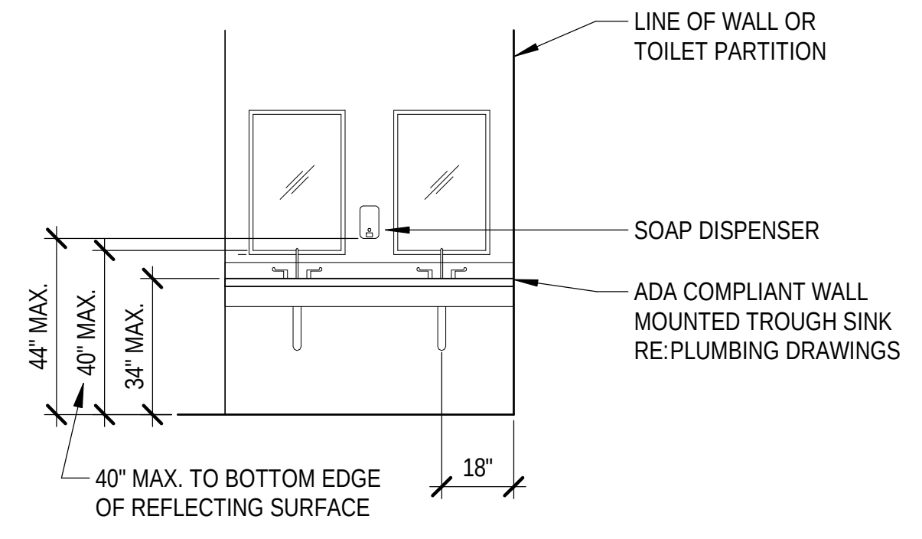
Enlarged Plan - Restrooms

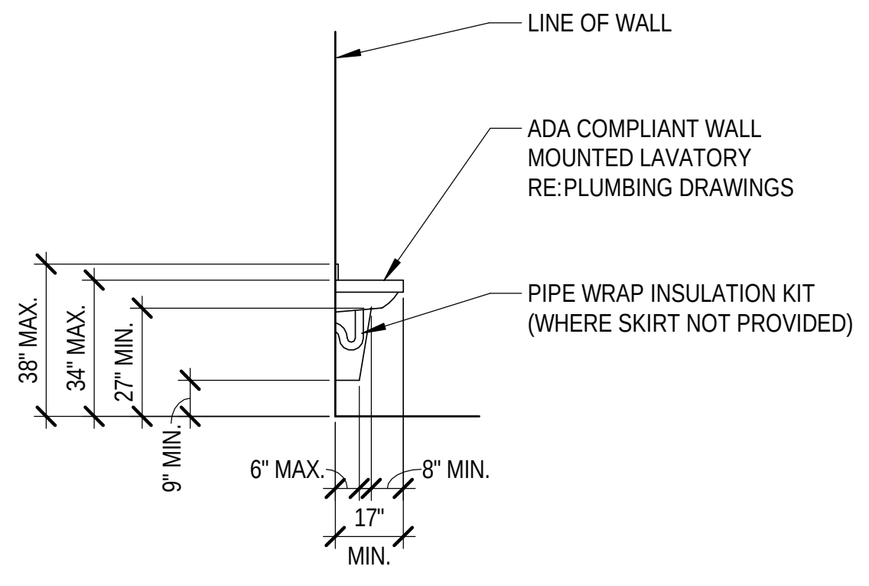
1/4" = 1'-0" 1

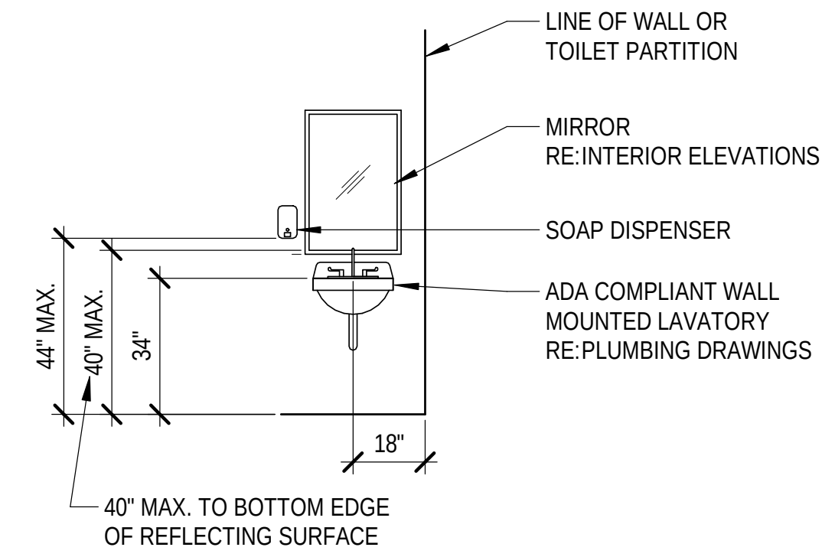
RESTROOM ACCESSORIES SCHEDULE

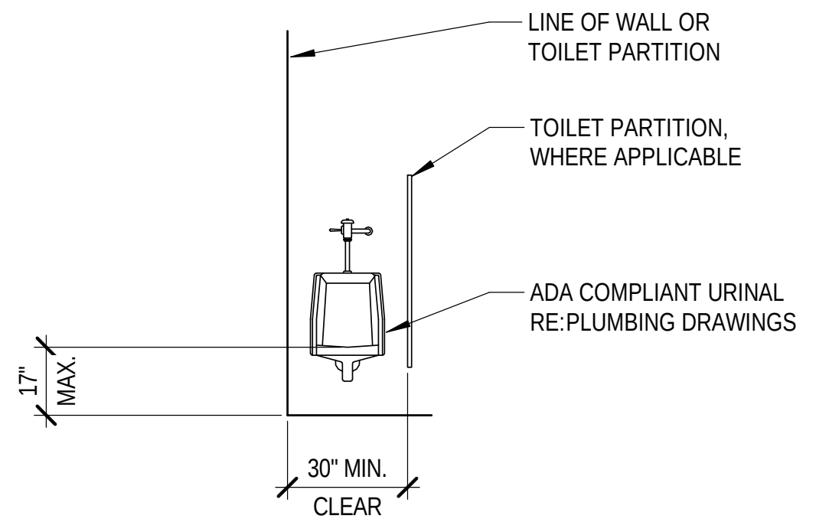
B01	*BABY CHANGING STATION* *MANUFACTURER: KOALA* *MODEL: KB200*
B02	*GRAB BAR 18"* *MANUFACTURER: BOBRICK* *MODEL: B-6806X18*
B03	*GRAB BAR 36"* *MANUFACTURER: BOBRICK* *MODEL: B-6806X36"*
B04	*GRAB BAR 42"* *MANUFACTURER: BOBRICK* *MODEL: B-6806X42*
B06	*FRAMELESS MIRROR*
B07	*SANITARY NAPKIN DISPOSAL* *MANUFACTURER: BOBRICK* *MODEL: B-270*
B08	*SOAP DISPENSER* *MANUFACTURER: BOBRICK* *MODEL: B-8263*
B09	*TOILET PAPER DISPENSER* *MANUFACTURER: BOBRICK* *MODEL: B-4288*
B10	*PAPER TOWEL DISPENSER* *MANUFACTURER: ENMOTION* *MODEL: 59766 RECESSED FLEX AUTOMATED TOUCHLESS, STAINLESS*
B16	*RECESSED TRASH RECEPTACLE AND PAPER TOWEL DISPENSER* *MANUFACTURER: ENMOTION* *MODEL: 59751 FLEX RECESSED RECEPTACLE, 59766 RECESSED FLEX AUTOMATED TOUCHLESS DISPENSER, STAINLESS*

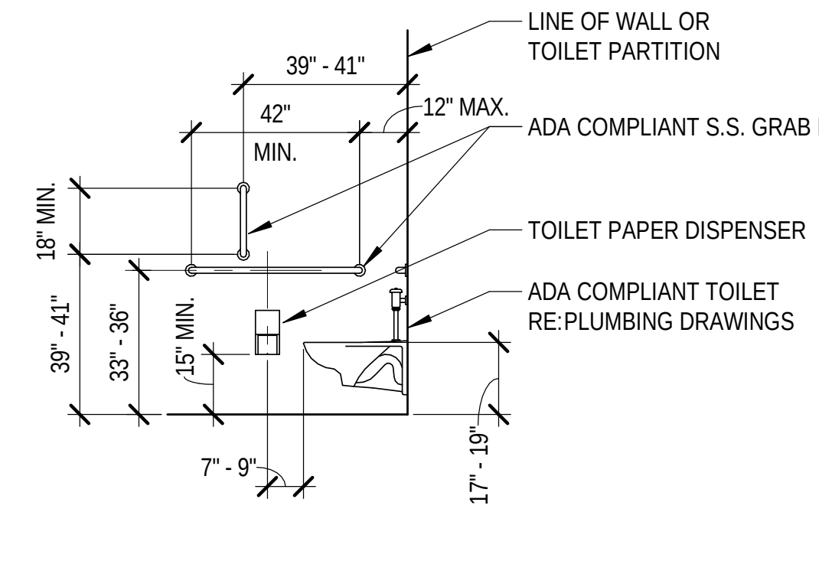

LINE OF WALL OR TOILET PARTITION
44" - 48"
PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
15" MIN.

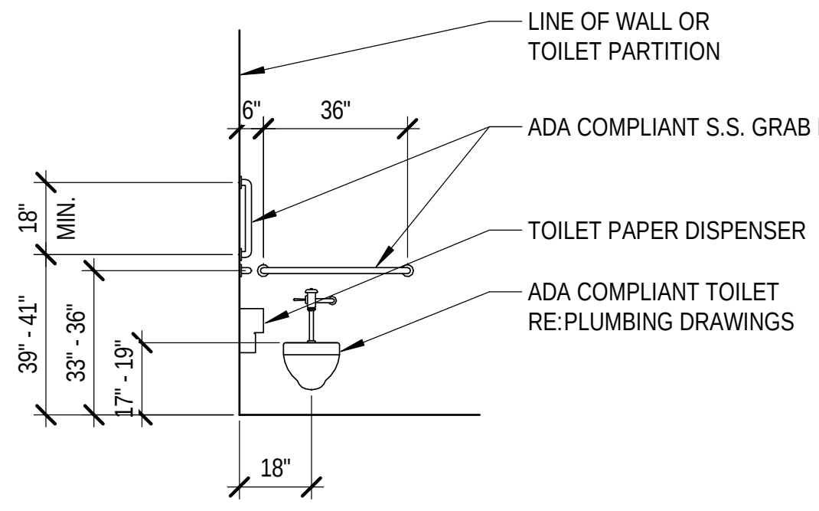

LINE OF WALL OR TOILET PARTITION
SOAP DISPENSER
ADA COMPLIANT WALL MOUNTED TROUGH SINK RE:PLUMBING DRAWINGS
44" MAX.
40" MAX.
34" MAX.
18"
40" MAX. TO BOTTOM EDGE OF REFLECTING SURFACE


LINE OF WALL
ADA COMPLIANT WALL MOUNTED LAVATORY RE:PLUMBING DRAWINGS
PIPE WRAP INSULATION KIT (WHERE SKIRT NOT PROVIDED)
38" MAX.
34" MAX.
27" MIN.
9" MIN.
6" MAX.
8" MIN.
17" MIN.


LINE OF WALL OR TOILET PARTITION
MIRROR RE:INTERIOR ELEVATIONS
SOAP DISPENSER
ADA COMPLIANT WALL MOUNTED LAVATORY RE:PLUMBING DRAWINGS
44" MAX.
40" MAX.
34"
18"
40" MAX. TO BOTTOM EDGE OF REFLECTING SURFACE


LINE OF WALL OR TOILET PARTITION
TOILET PARTITION, WHERE APPLICABLE
ADA COMPLIANT URINAL RE:PLUMBING DRAWINGS
17" MAX.
30" MIN. CLEAR


LINE OF WALL OR TOILET PARTITION
39" - 41"
42" MIN.
12" MAX.
ADA COMPLIANT S.S. GRAB BARS
TOILET PAPER DISPENSER
ADA COMPLIANT TOILET RE:PLUMBING DRAWINGS
18" MIN.
39" - 41"
33" - 36"
15" MIN.
7" - 9"
17" - 19"


LINE OF WALL OR TOILET PARTITION
6"
36"
ADA COMPLIANT S.S. GRAB BARS
TOILET PAPER DISPENSER
ADA COMPLIANT TOILET RE:PLUMBING DRAWINGS
18" MIN.
39" - 41"
33" - 36"
17" - 19"
18"

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7-19-22

K1 SPEED LEE'S SUMMIT

Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

ENLARGED PLANS

A-501

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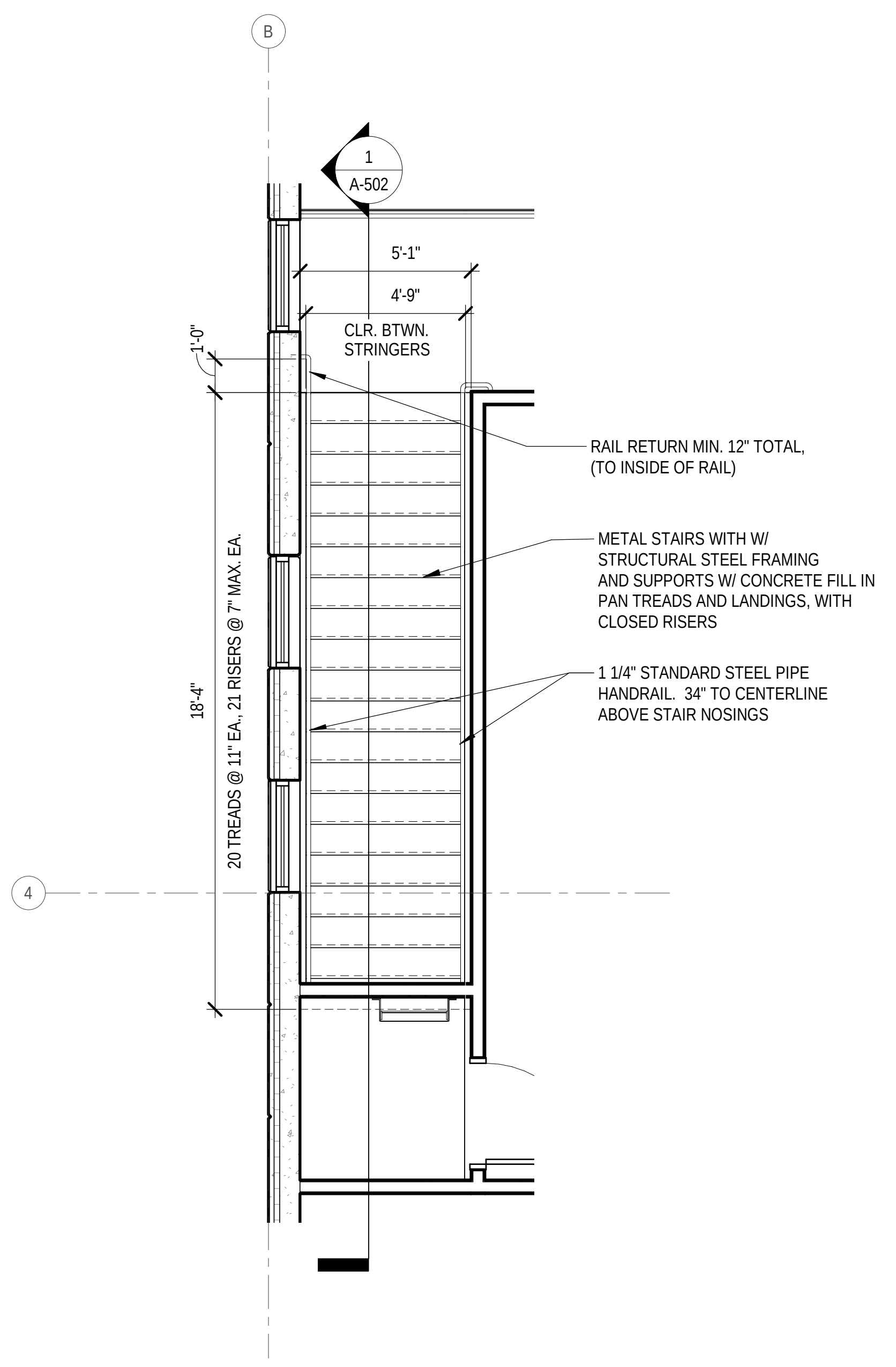
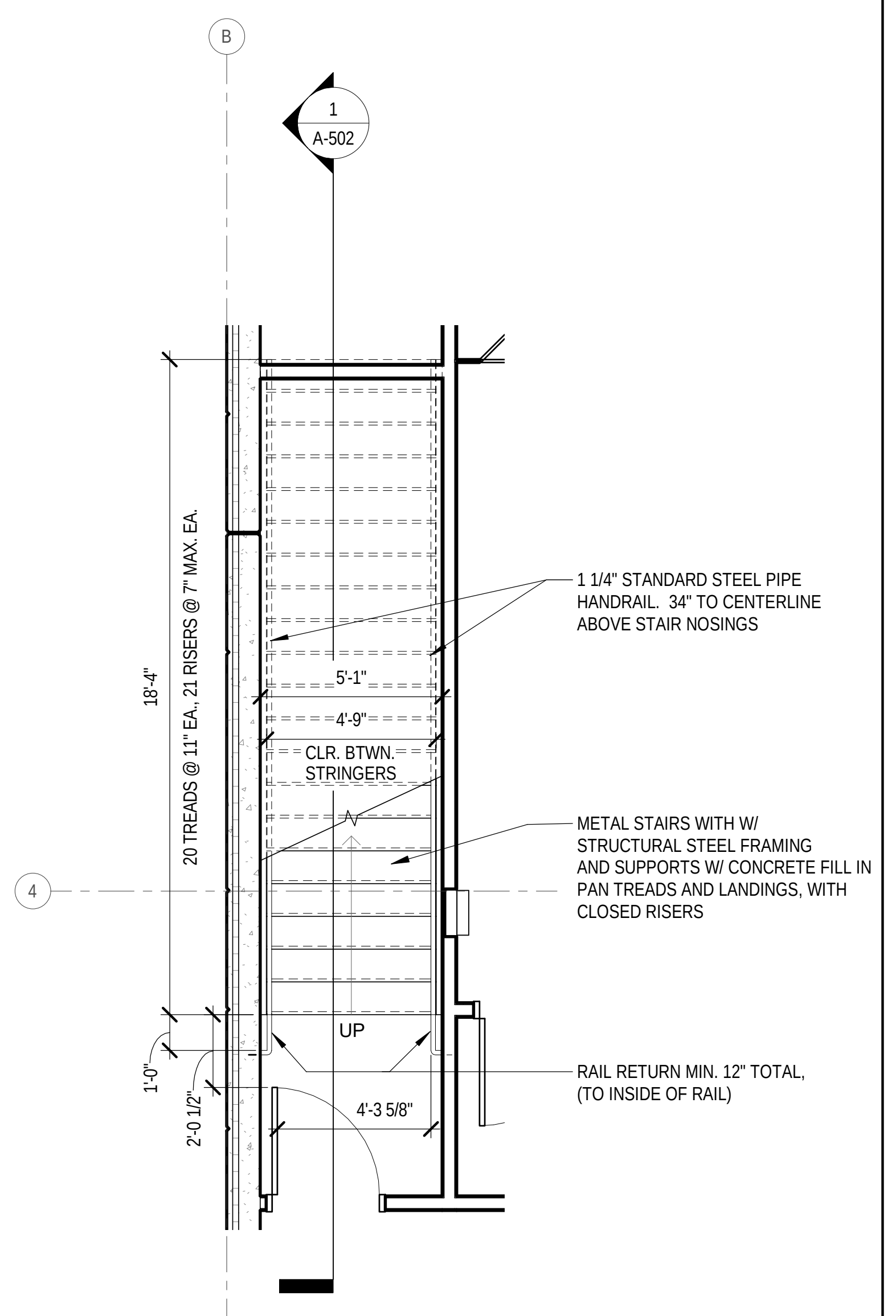
As Noted on Plans Review

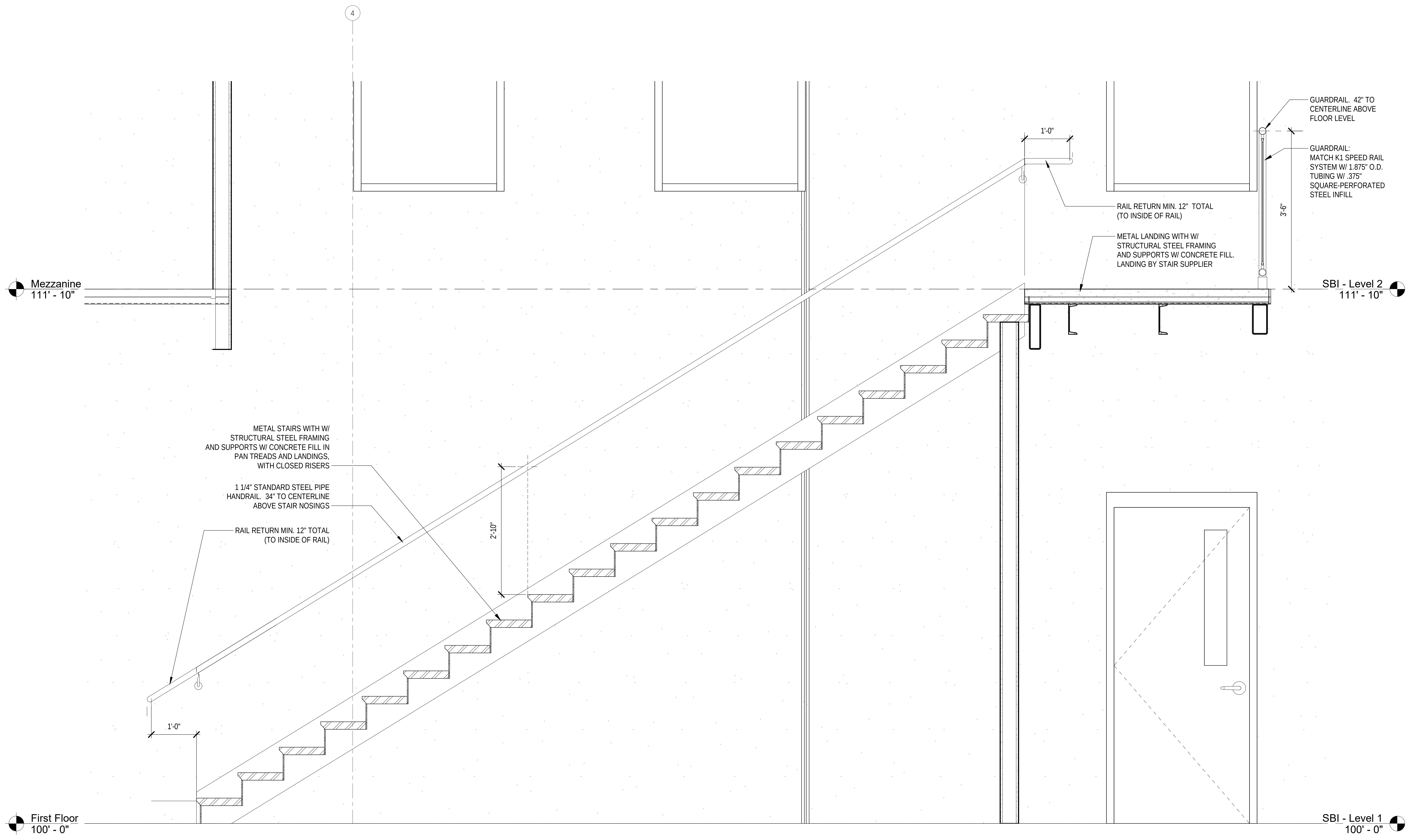
Development Services Department
Lee's Summit, Missouri
09/20/2022


B
1
A-502
5'-1"
4'-9"
CLR. BTWN. STRINGERS
1'-0"
18'-4"
20 TREADS @ 11" EA., 21 RISERS @ 7" MAX. EA.
RAIL RETURN MIN. 12" TOTAL, (TO INSIDE OF RAIL)
METAL STAIRS WITH W/ STRUCTURAL STEEL FRAMING AND SUPPORTS W/ CONCRETE FILL IN PAN TREADS AND LANDINGS, WITH CLOSED RISERS
1 1/4" STANDARD STEEL PIPE HANDRAIL. 34" TO CENTERLINE ABOVE STAIR NOSINGS
4

Enlarged Stair Plan - Mezzanine 3
1/4" = 1'-0"


B
1
A-502
18'-4"
20 TREADS @ 11" EA., 21 RISERS @ 7" MAX. EA.
1 1/4" STANDARD STEEL PIPE HANDRAIL. 34" TO CENTERLINE ABOVE STAIR NOSINGS
5'-1"
4'-9"
CLR. BTWN. STRINGERS
METAL STAIRS WITH W/ STRUCTURAL STEEL FRAMING AND SUPPORTS W/ CONCRETE FILL IN PAN TREADS AND LANDINGS, WITH CLOSED RISERS
4
UP
1'-0"
2'-0 1/2"
4'-3 5/8"
RAIL RETURN MIN. 12" TOTAL, (TO INSIDE OF RAIL)

Enlarged Stair Plan - First Floor 2
1/4" = 1'-0"


4
1'-0"
GUARDRAIL. 42" TO CENTERLINE ABOVE FLOOR LEVEL
GUARDRAIL: MATCH K1 SPEED RAIL SYSTEM W/ 1.875" O.D. TUBING W/ .375" SQUARE-PERFORATED STEEL INFILL
RAIL RETURN MIN. 12" TOTAL (TO INSIDE OF RAIL)
3'-6"
METAL LANDING WITH W/ STRUCTURAL STEEL FRAMING AND SUPPORTS W/ CONCRETE FILL. LANDING BY STAIR SUPPLIER
Mezzanine
111' - 10"
SBI - Level 2
111' - 10"
METAL STAIRS WITH W/ STRUCTURAL STEEL FRAMING AND SUPPORTS W/ CONCRETE FILL IN PAN TREADS AND LANDINGS, WITH CLOSED RISERS
1 1/4" STANDARD STEEL PIPE HANDRAIL. 34" TO CENTERLINE ABOVE STAIR NOSINGS
RAIL RETURN MIN. 12" TOTAL (TO INSIDE OF RAIL)
2'-10"
1'-0"
First Floor
100' - 0"
SBI - Level 1
100' - 0"

Stair Section 1
3/4" = 1'-0"

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K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:

Project #: 211107

CONSTRUCTION
DOCUMENTS

July 19, 2022

STAIR PLANS,
SECTIONS & DETAILS

A-502

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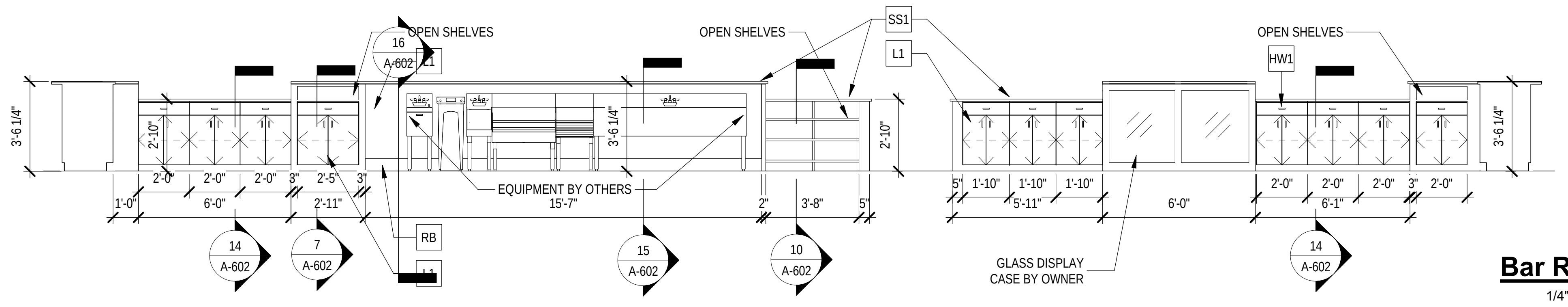
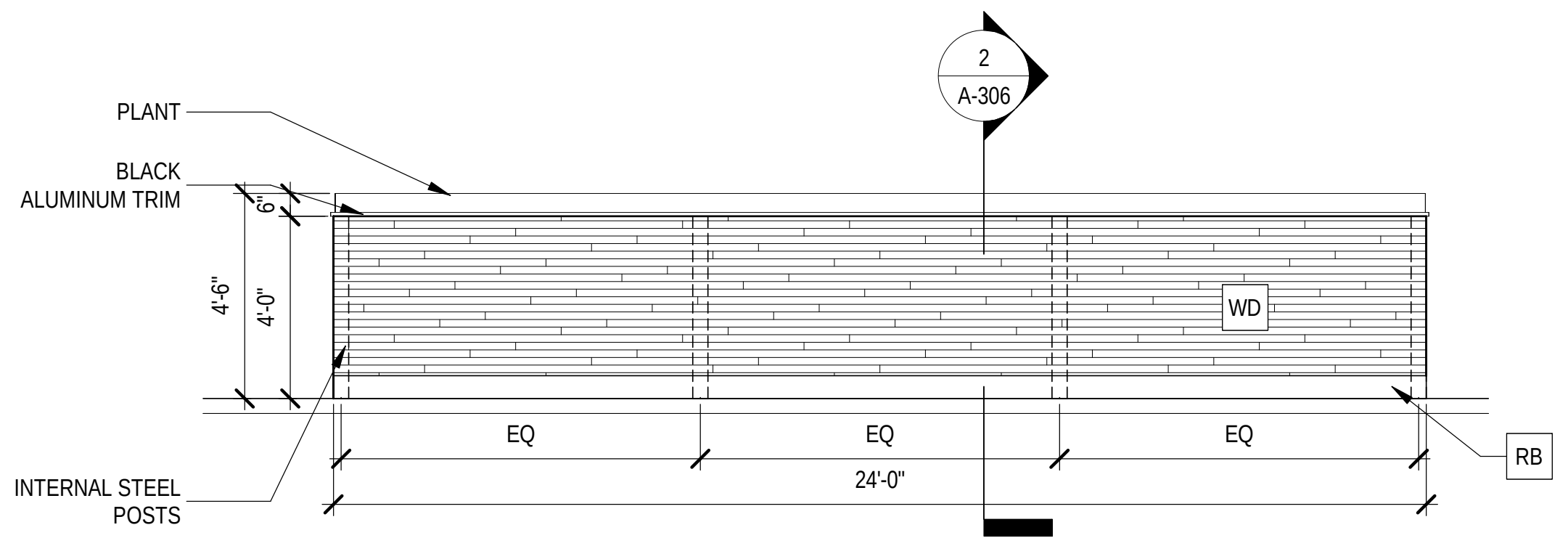
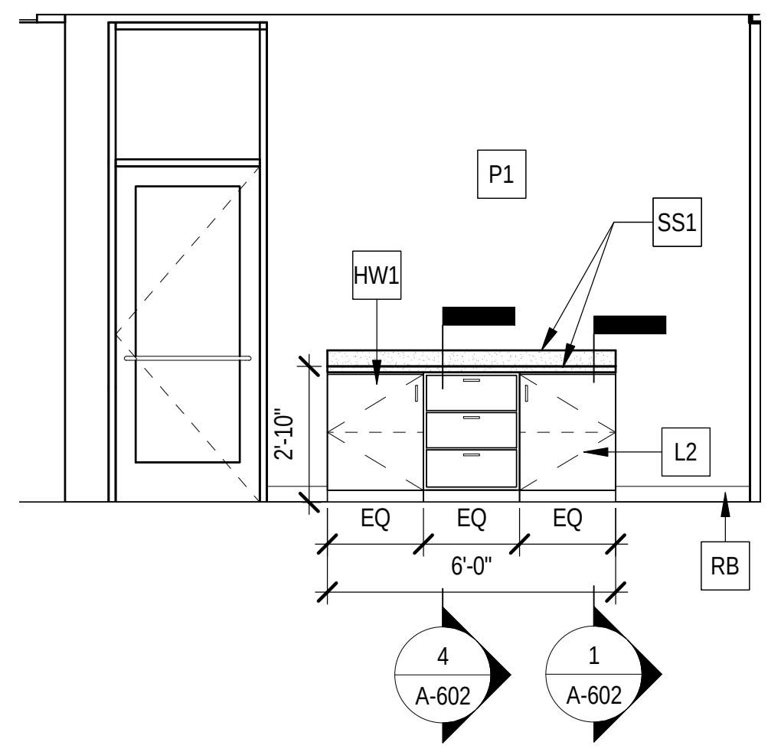


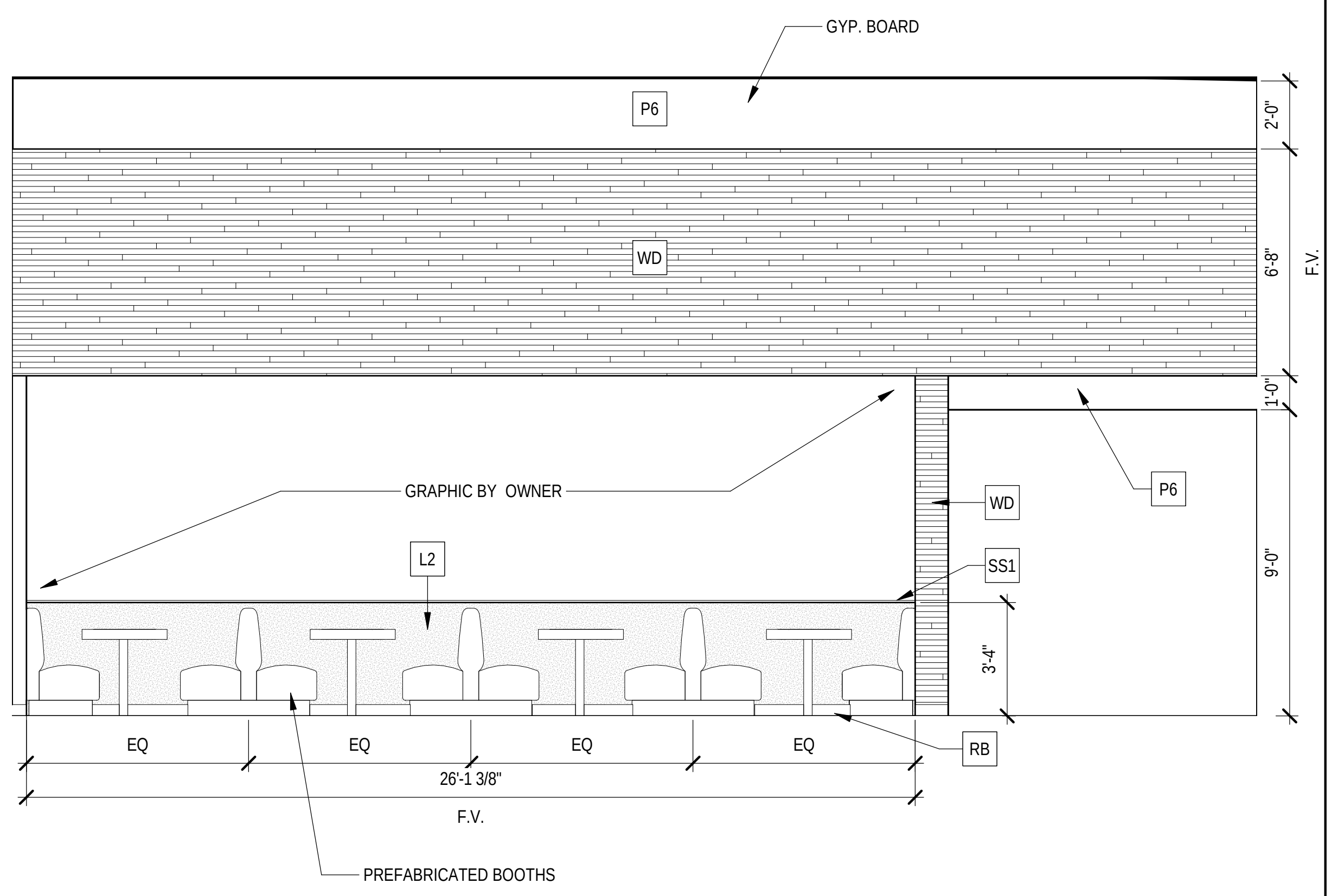
Bar Rear 9
1/4" = 1'-0"



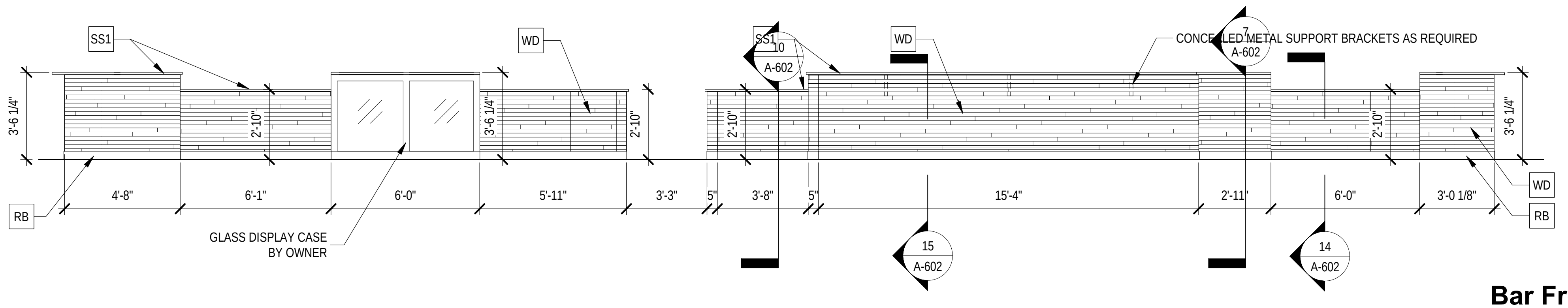
Paddock Lounge Divider Wall 10
1/4" = 1'-0"



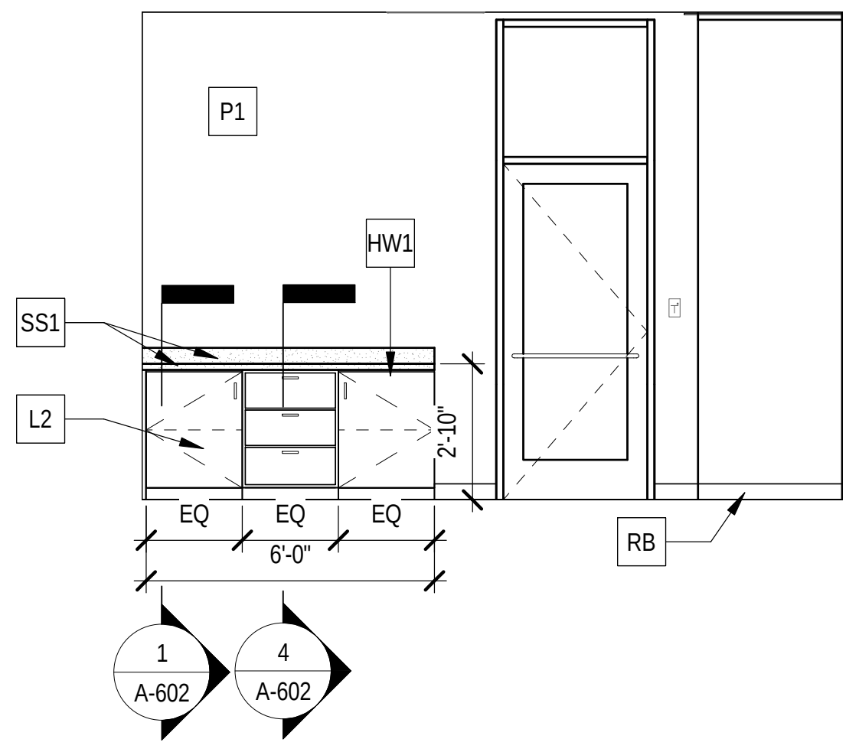
Meeting Room 2 6
1/4" = 1'-0"



Paddock Lounge Booths 3
1/4" = 1'-0"



Bar Front 8
1/4" = 1'-0"



Meeting Room 1 5
1/4" = 1'-0"

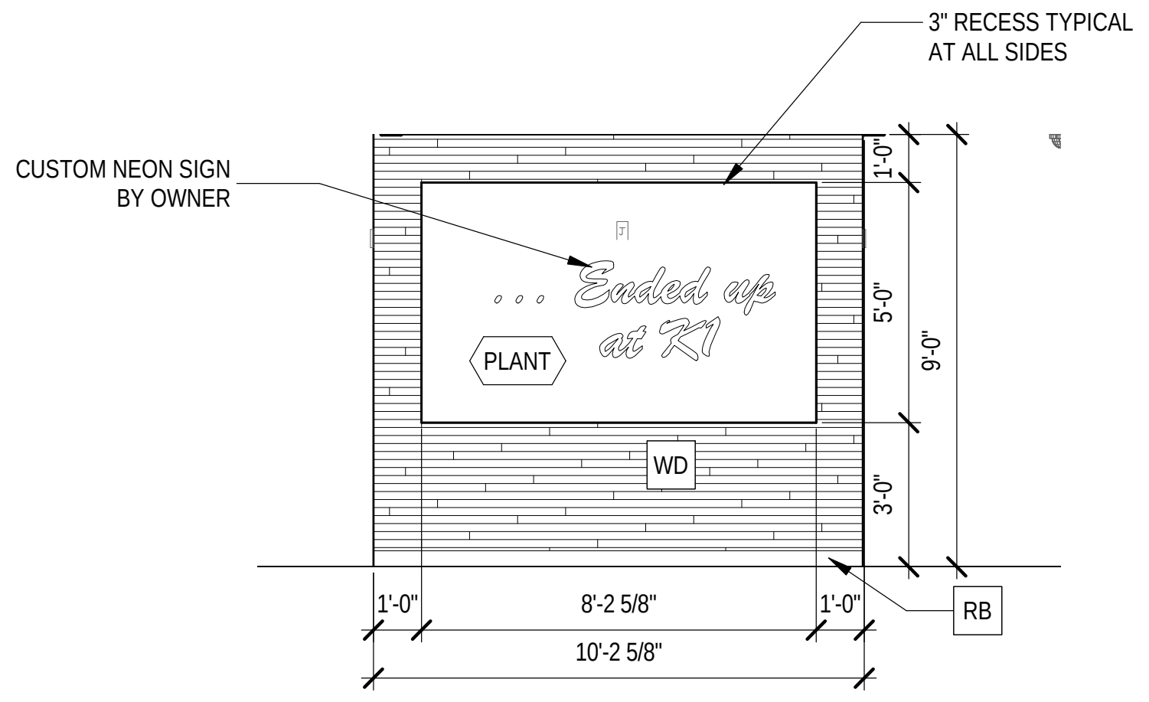
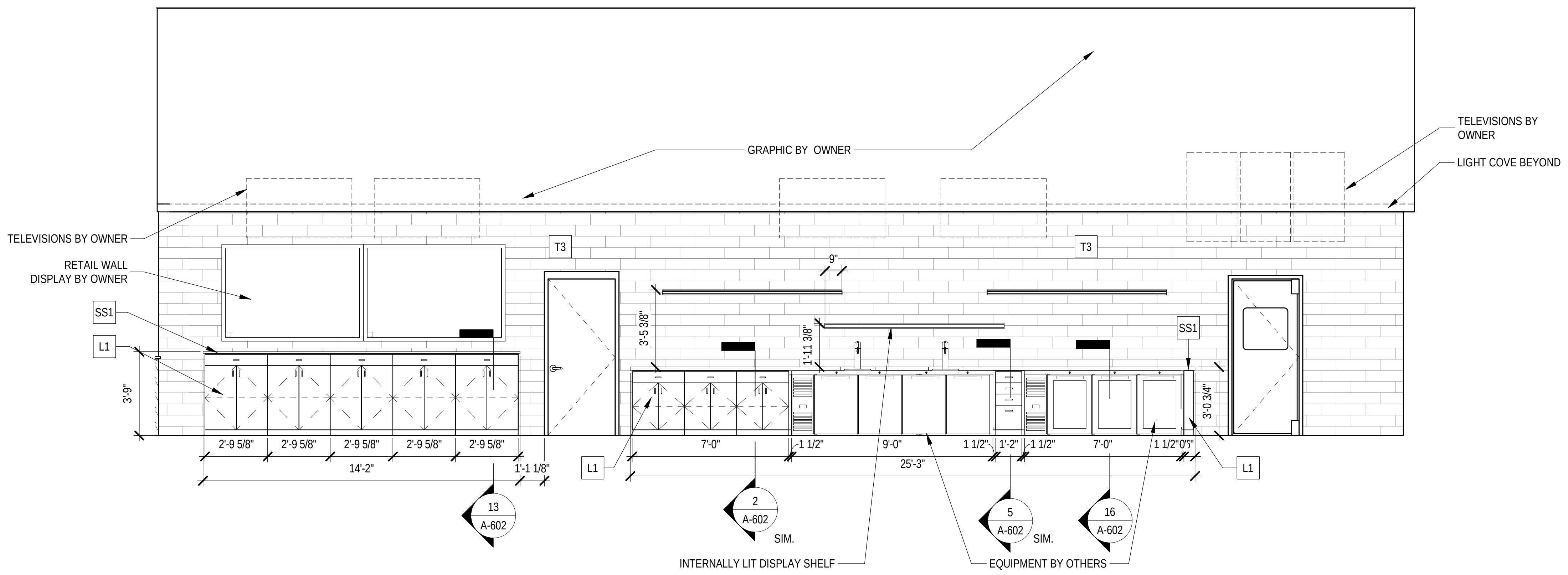


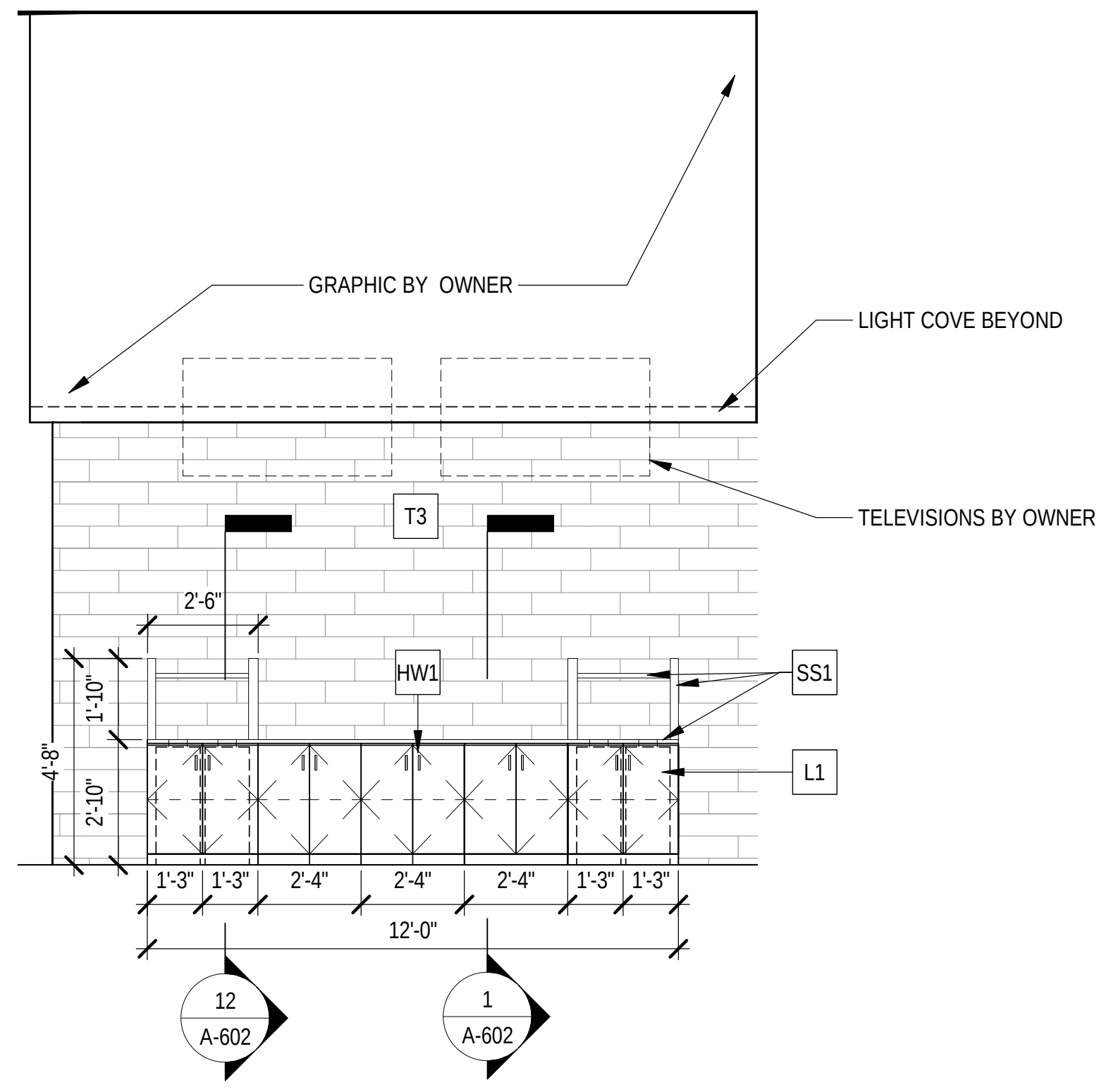
Photo Op 2
1/4" = 1'-0"



NOTES: 1. ALL APPLIANCES BY OWNER
2. PROVIDE FRT BLOCKING AT ALL TELEVISION LOCATIONS
3. ALL WOOD OUTSIDE CORNERS TO BE MITERED

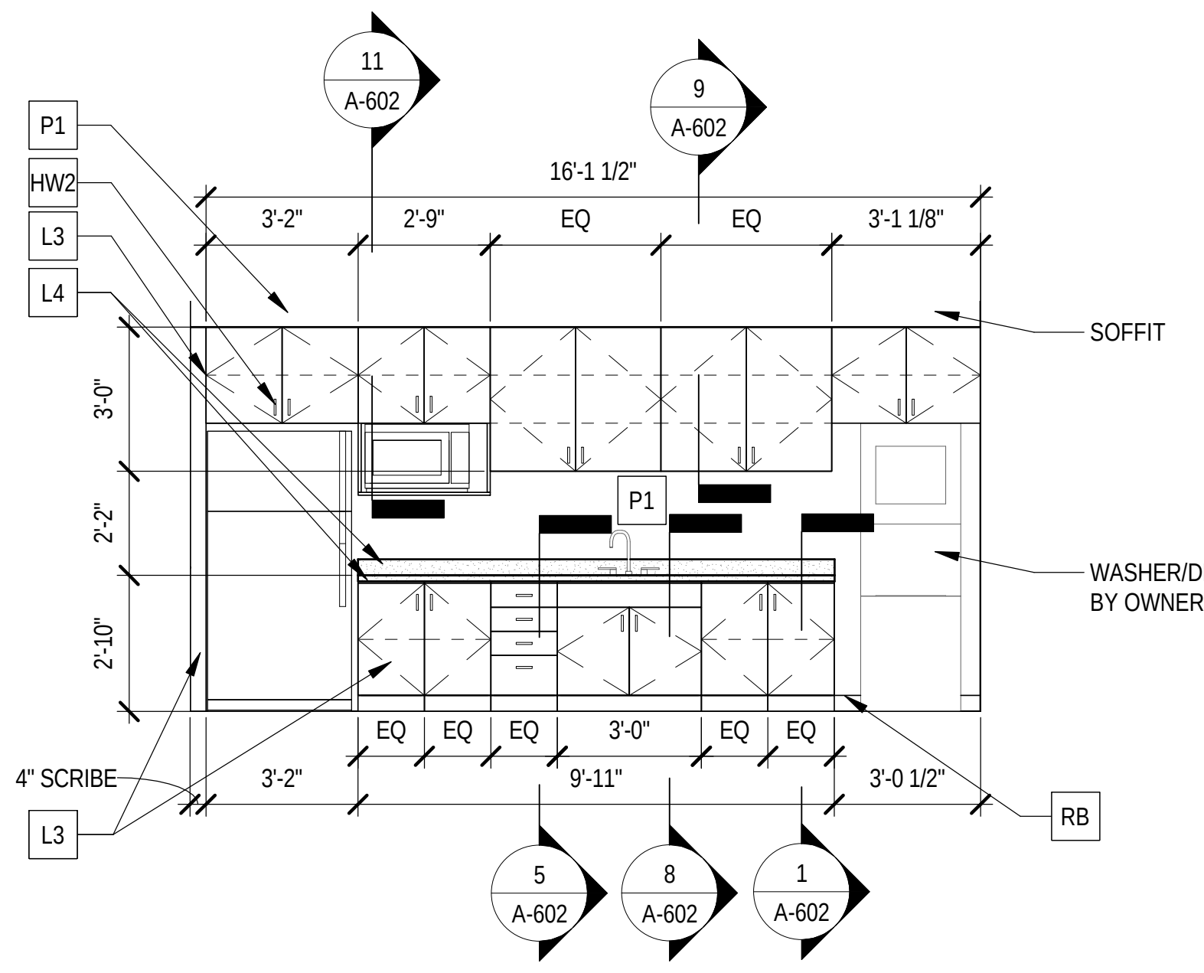
Back Bar 7
1/4" = 1'-0"

NOTE: PROVIDE FRT BLOCKING AT ALL TELEVISION LOCATIONS.



Paddock Lounge Condiment Counter 4
1/4" = 1'-0"

ALL APPLIANCES BY OWNER



Break Room 1
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

July 19, 2022

INTERIOR ELEVATIONS

A-601

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Development Services Department
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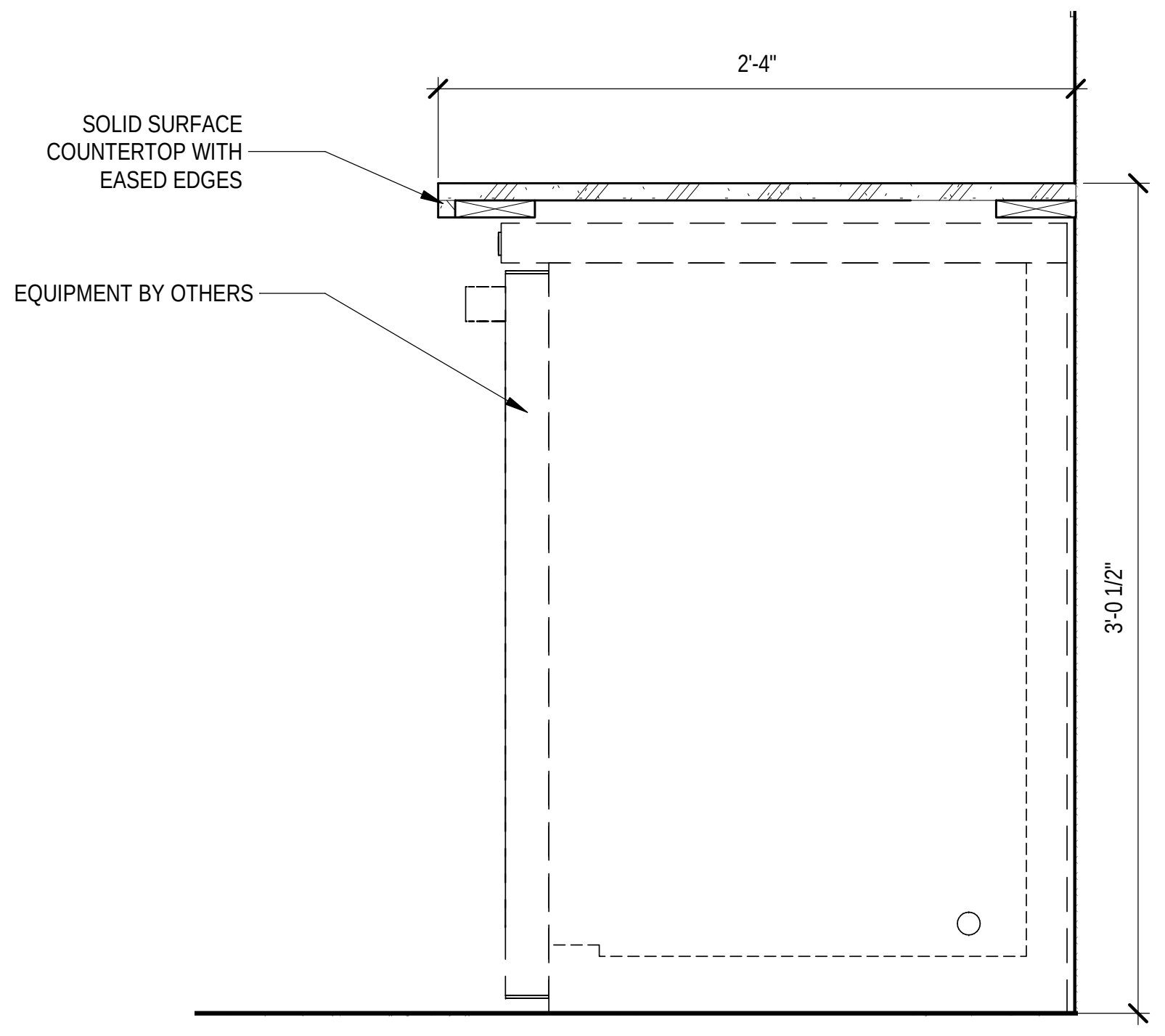
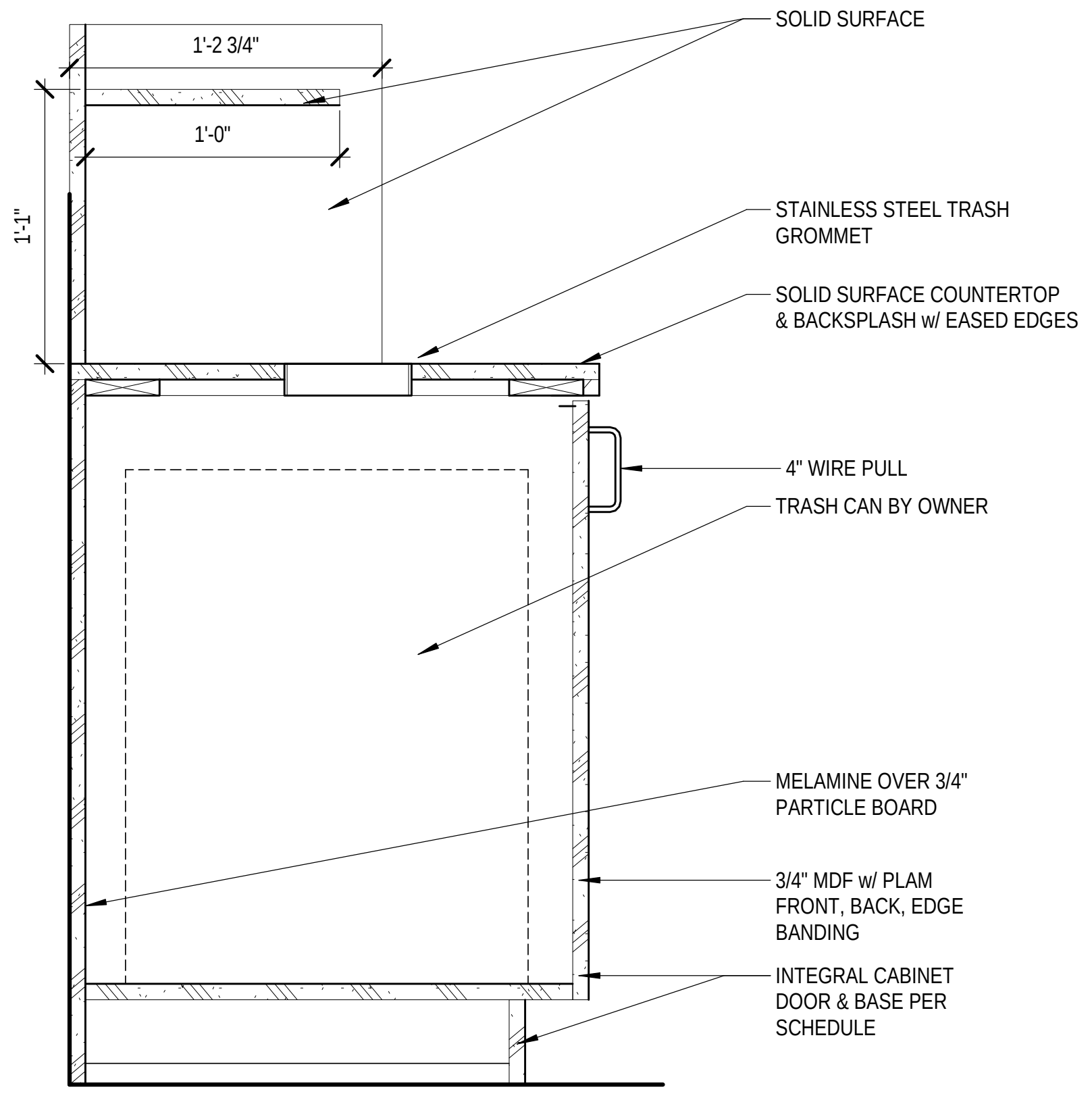
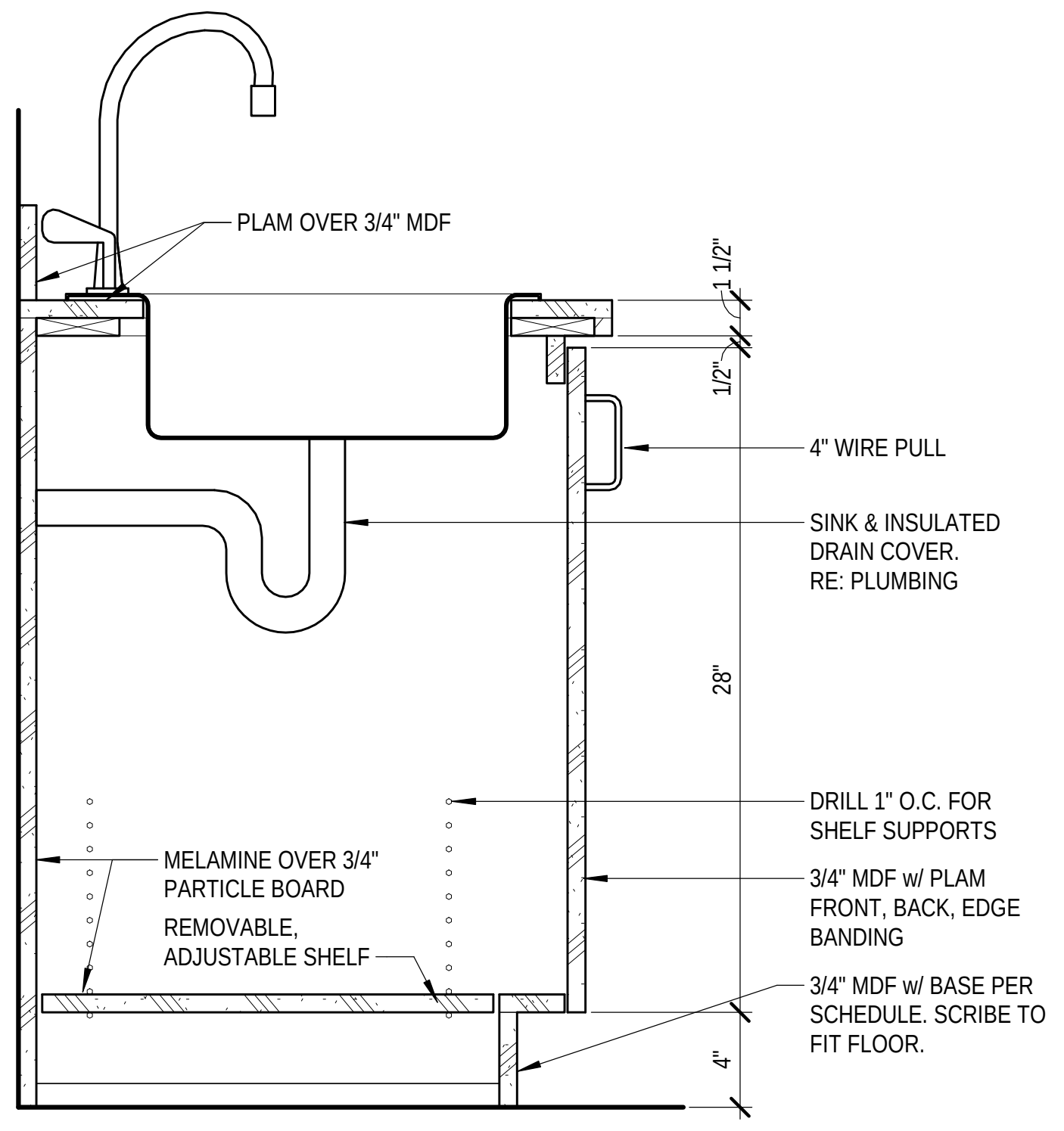
09/20/2022



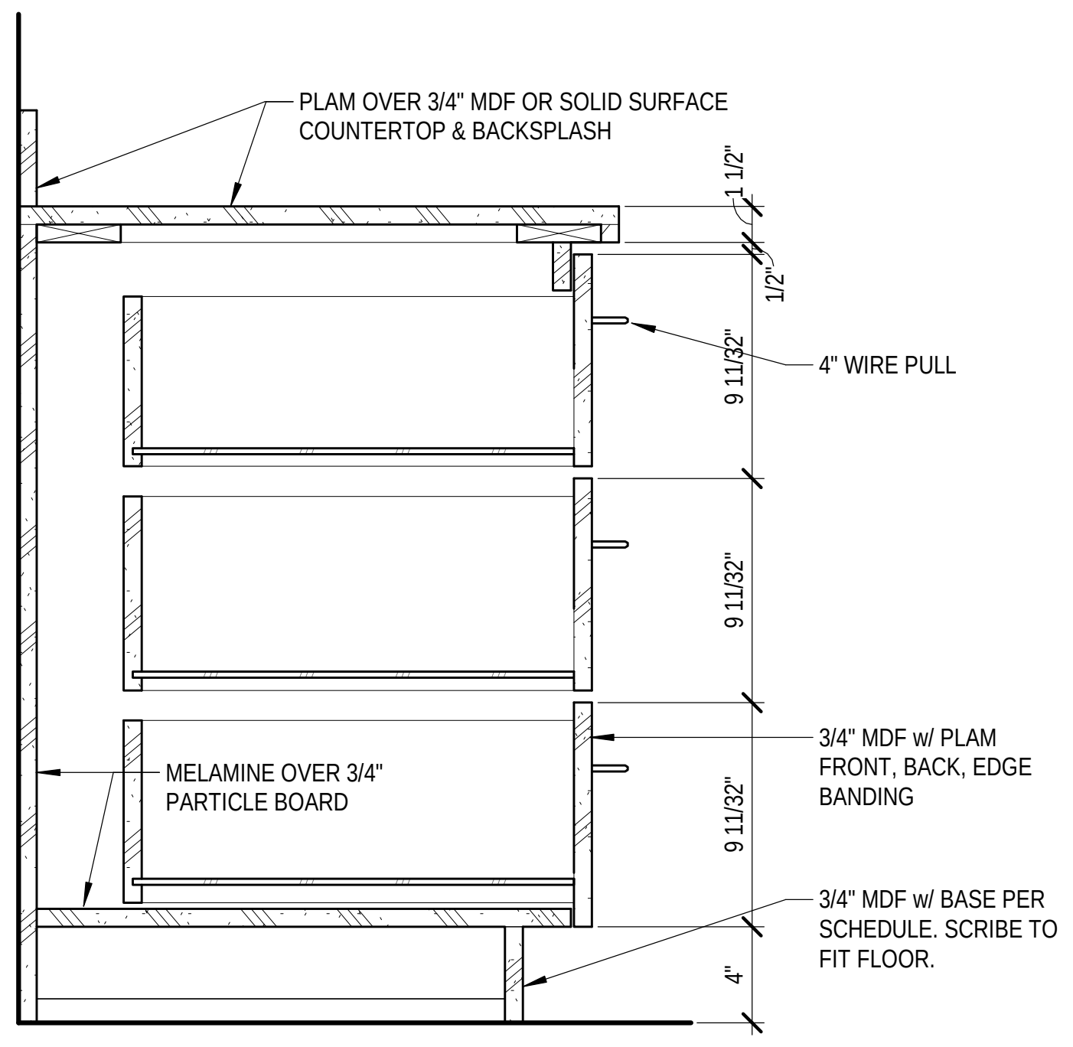
Casework Section - Back Bar Equipment 16
1 1/2" = 1'-0"


SOLID SURFACE
1'-2 3/4"
1'-0"
1'-1"
STAINLESS STEEL TRASH GROMMET
SOLID SURFACE COUNTERTOP & BACKSPLASH w/ EASED EDGES
4" WIRE PULL
TRASH CAN BY OWNER
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
INTEGRAL CABINET DOOR & BASE PER SCHEDULE

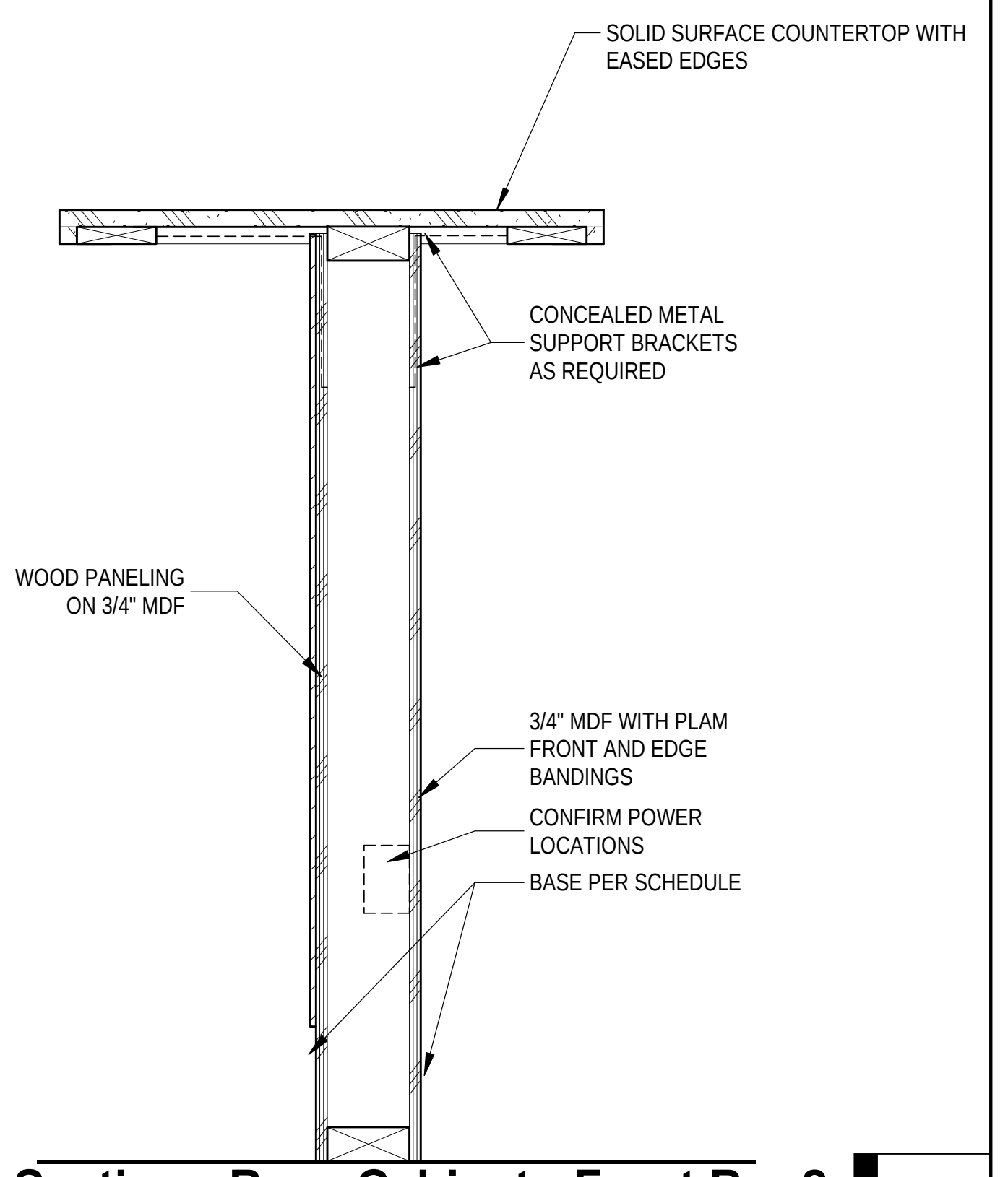
Casework Section - Base Cabinet -Trash/Tray Shelf 12
1 1/2" = 1'-0"


PLAM OVER 3/4" MDF
1 1/2"
1/2"
4" WIRE PULL
SINK & INSULATED DRAIN COVER. RE: PLUMBING
28"
DRILL 1" O.C. FOR SHELF SUPPORTS
MELAMINE OVER 3/4" PARTICLE BOARD
REMOVABLE, ADJUSTABLE SHELF
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"

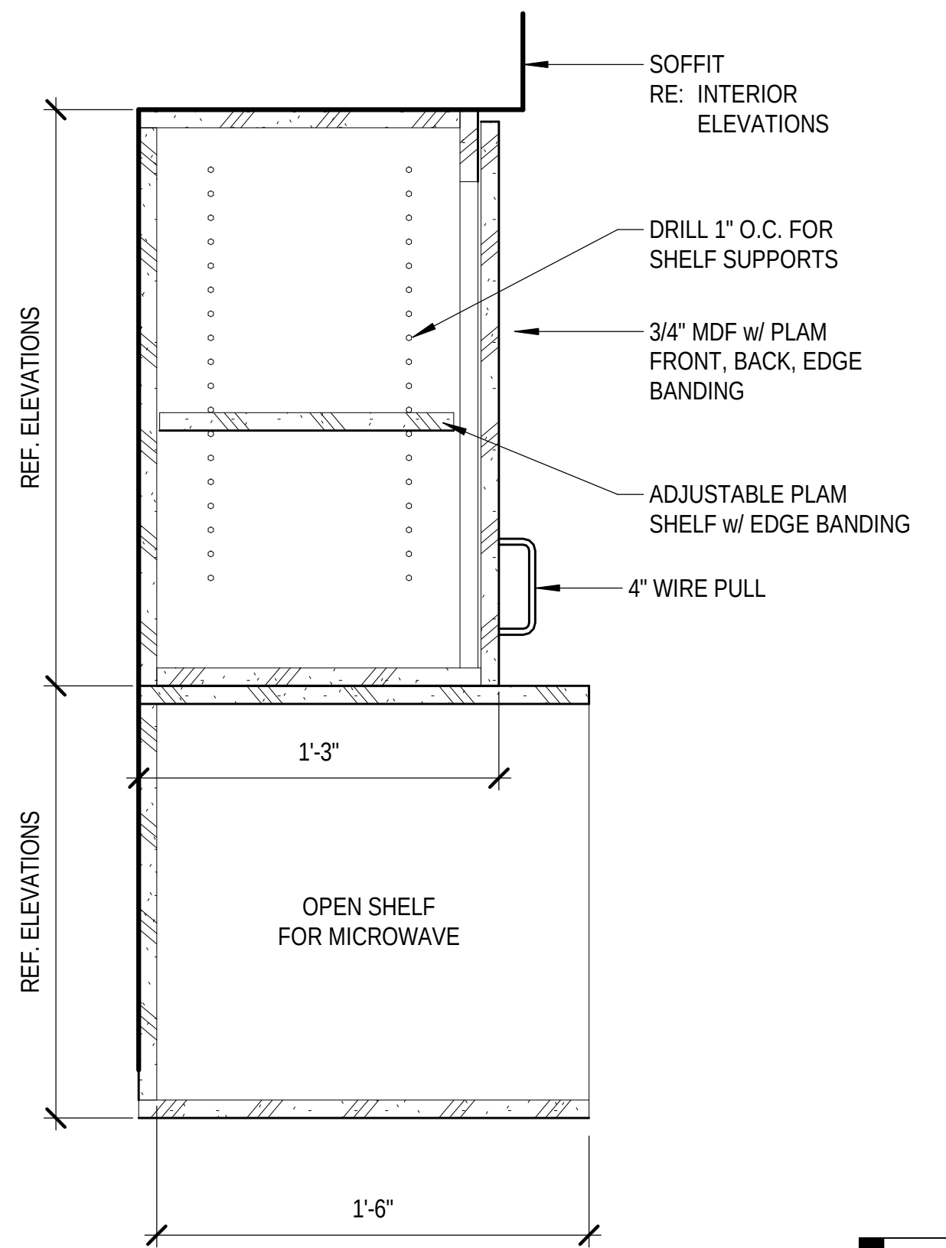
Casework Section - Base Cabinet with Sink 8
1 1/2" = 1'-0"


PLAM OVER 3/4" MDF OR SOLID SURFACE COUNTERTOP & BACKSPLASH
1 1/2"
1/2"
4" WIRE PULL
9 11/32"
9 11/32"
9 11/32"
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"

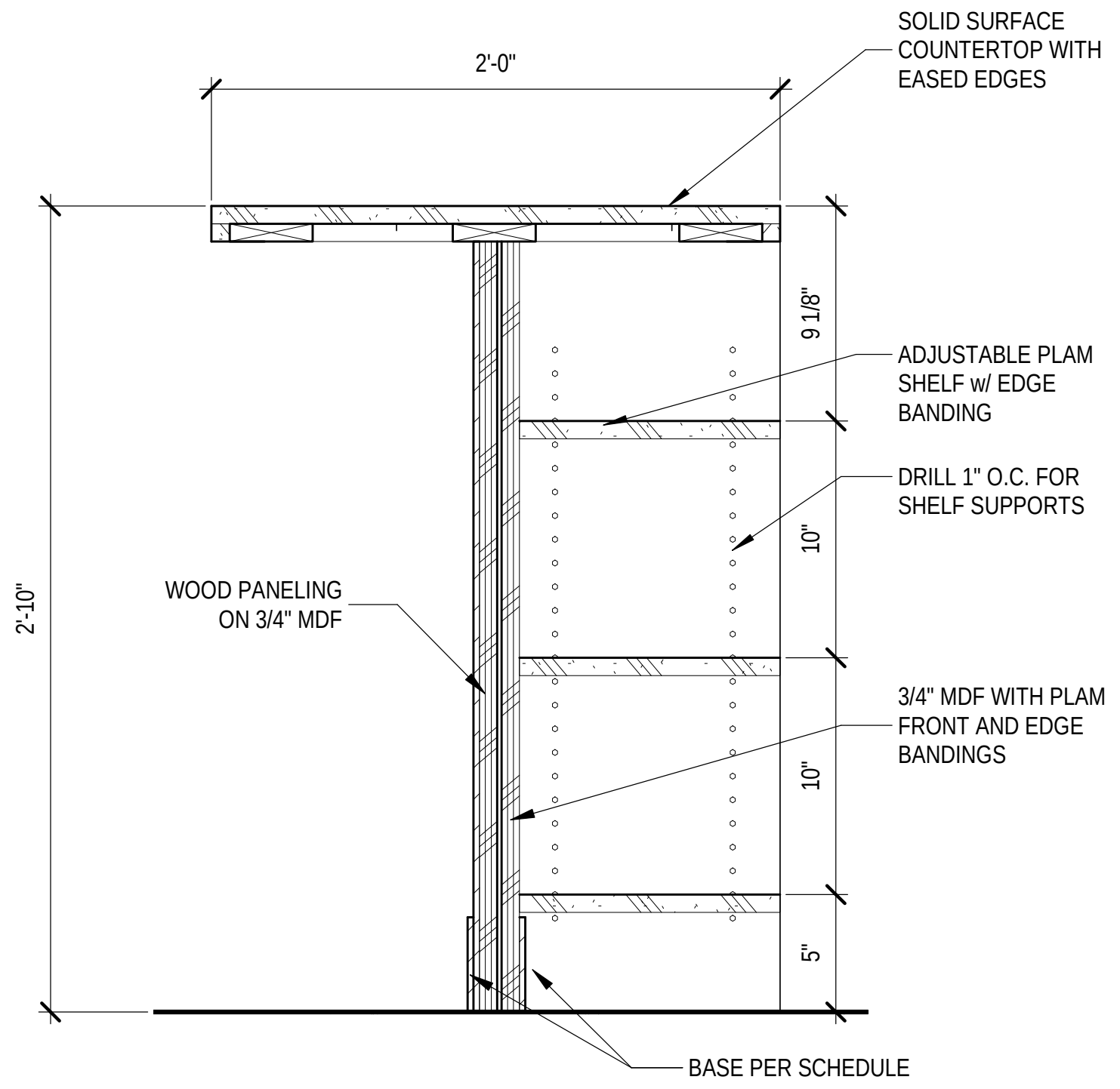
Casework Section - Base Cabinet - 3 Drawers 4
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP WITH EASED EDGES
CONCEALED METAL SUPPORT BRACKETS AS REQUIRED
WOOD PANELING ON 3/4" MDF
3/4" MDF WITH PLAM FRONT AND EDGE BANDINGS
CONFIRM POWER LOCATIONS
BASE PER SCHEDULE

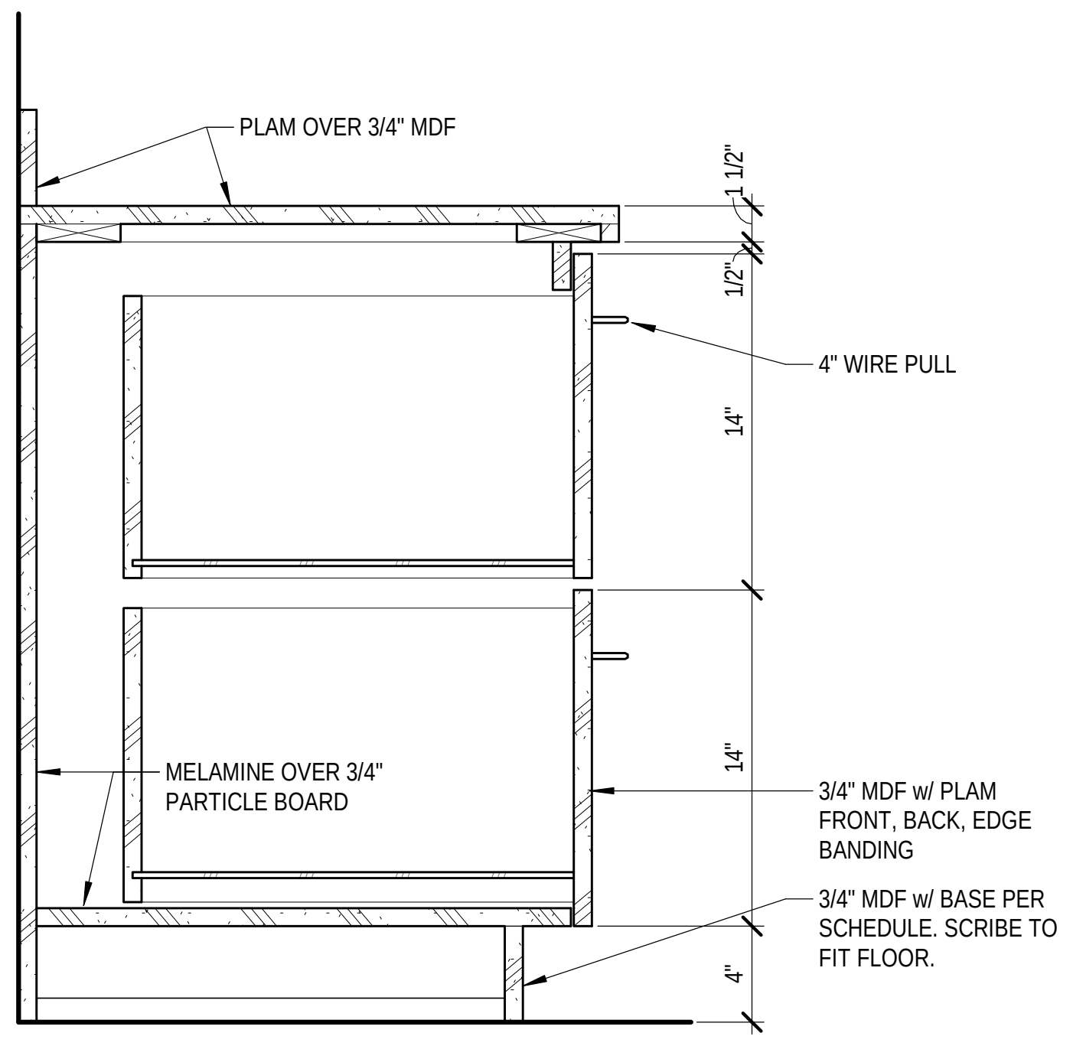
Casework Section - Base Cabinet - Front Bar 2 15
1 1/2" = 1'-0"


SOFFIT RE: INTERIOR ELEVATIONS
DRILL 1" O.C. FOR SHELF SUPPORTS
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
4" WIRE PULL
REF. ELEVATIONS
REF. ELEVATIONS
1'-3"
OPEN SHELF FOR MICROWAVE
1'-6"

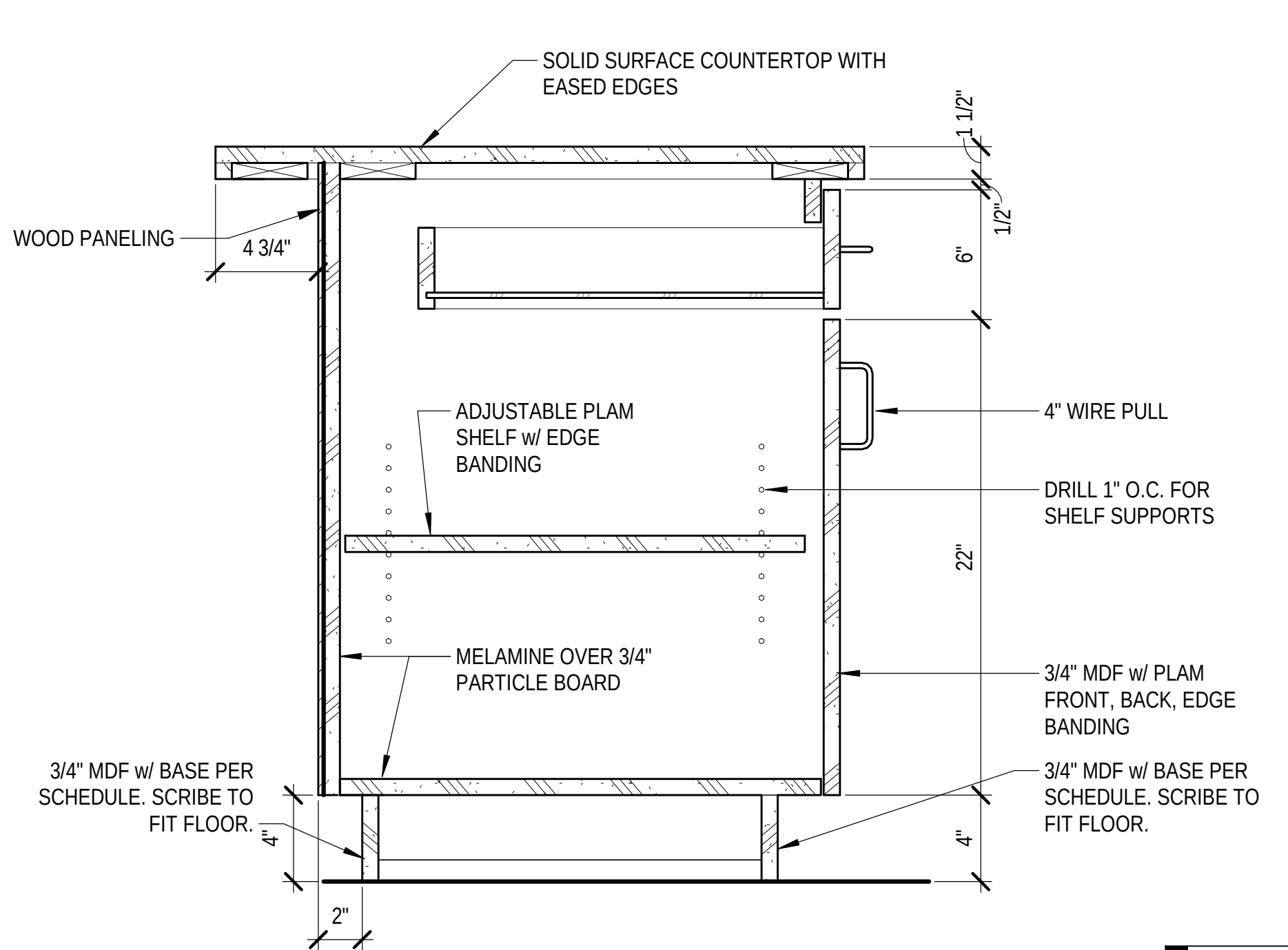
Casework Section - Upper Cabinet - Microwave 11
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP WITH EASED EDGES
2'-0"
9 1/8"
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
DRILL 1" O.C. FOR SHELF SUPPORTS
10"
10"
5"
2'-10"
WOOD PANELING ON 3/4" MDF
3/4" MDF WITH PLAM FRONT AND EDGE BANDINGS
BASE PER SCHEDULE

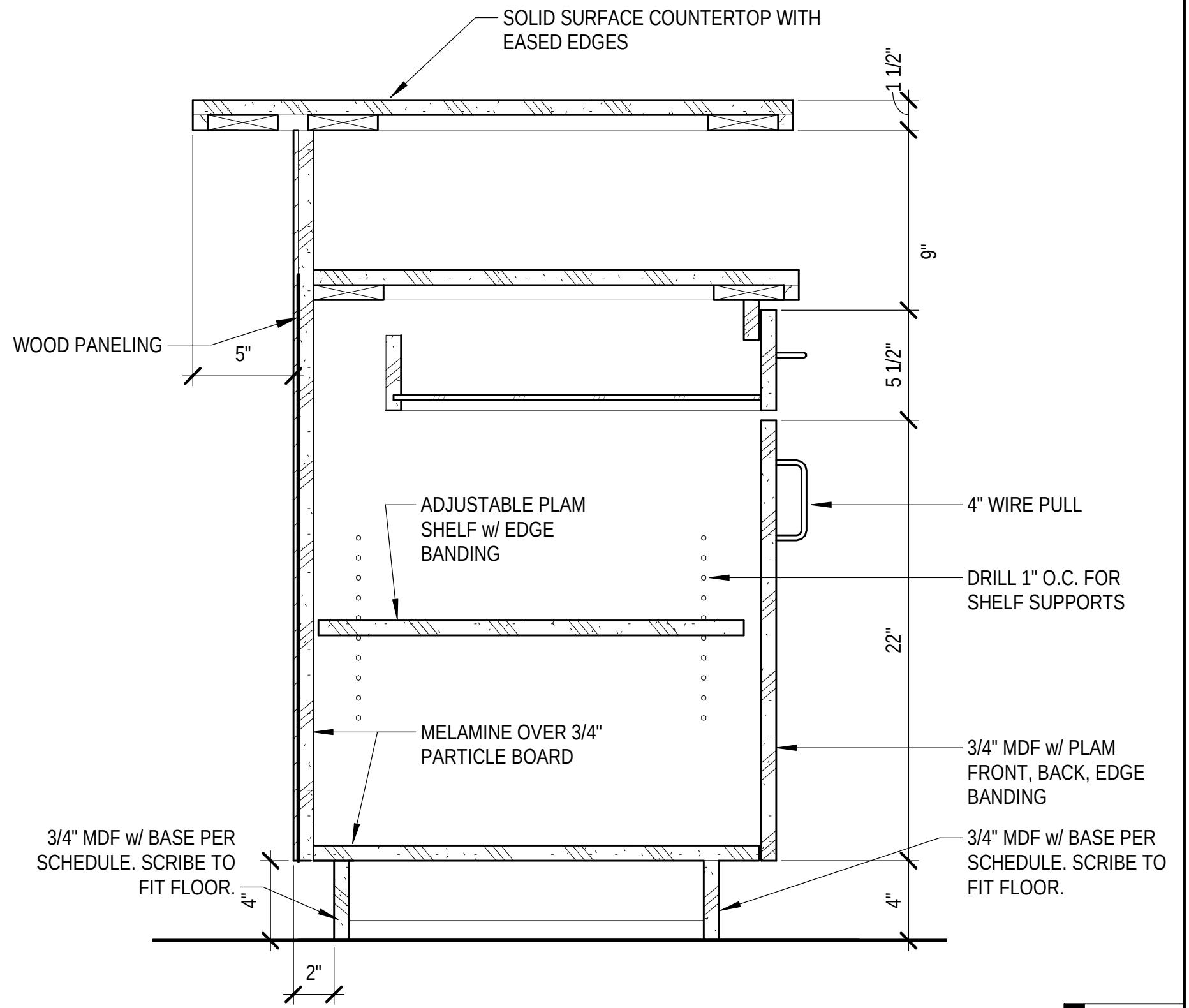
Casework Section - Base Cabinet -Bar Open Shelves 10
1 1/2" = 1'-0"


PLAM OVER 3/4" MDF
1 1/2"
1/2"
4" WIRE PULL
14"
14"
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"

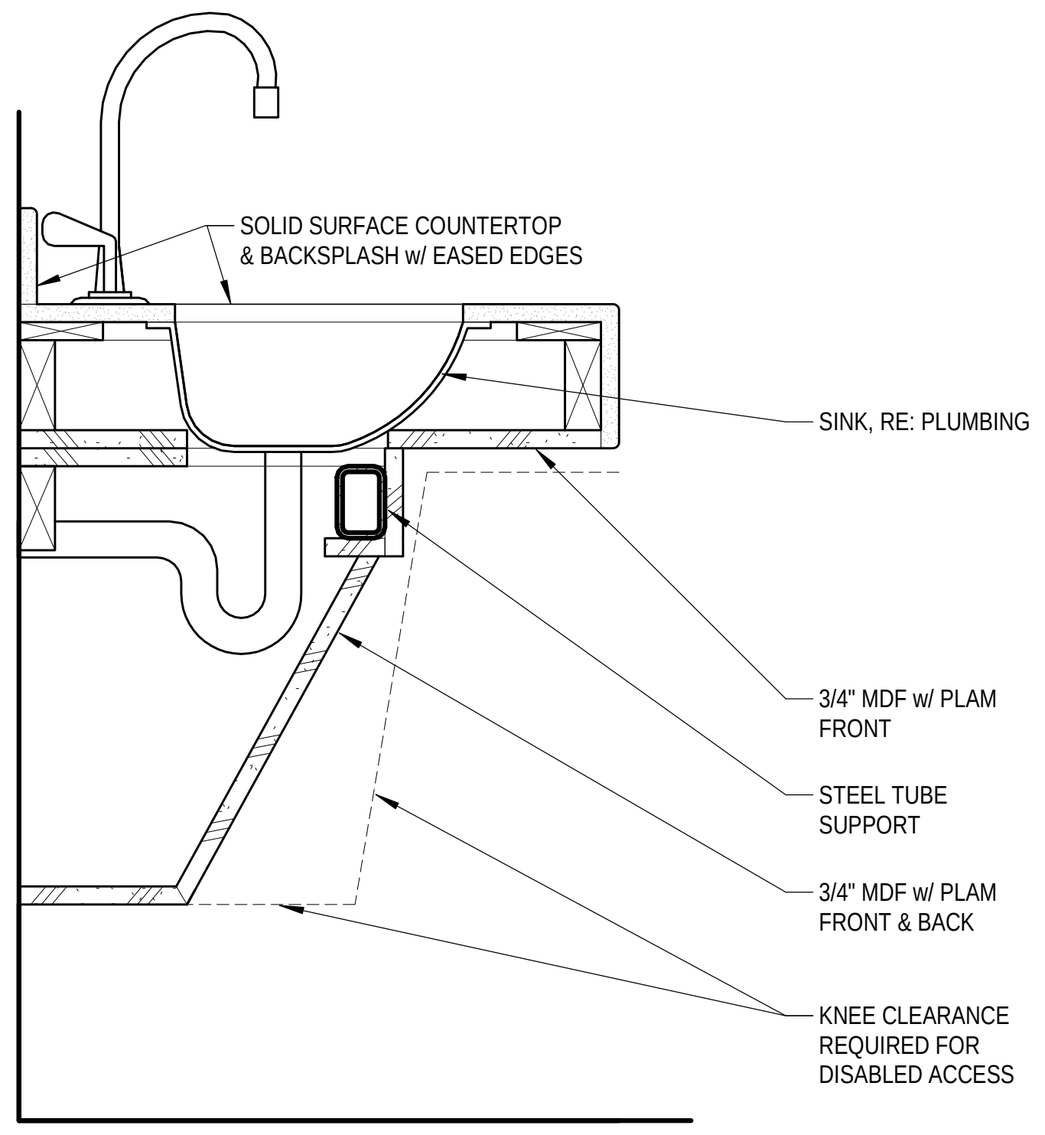
Casework Section - Base Cabinet - 2 Drawers 3
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP WITH EASED EDGES
1 1/2"
1/2"
WOOD PANELING
4 3/4"
6"
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
4" WIRE PULL
DRILL 1" O.C. FOR SHELF SUPPORTS
22"
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"
4"
2"

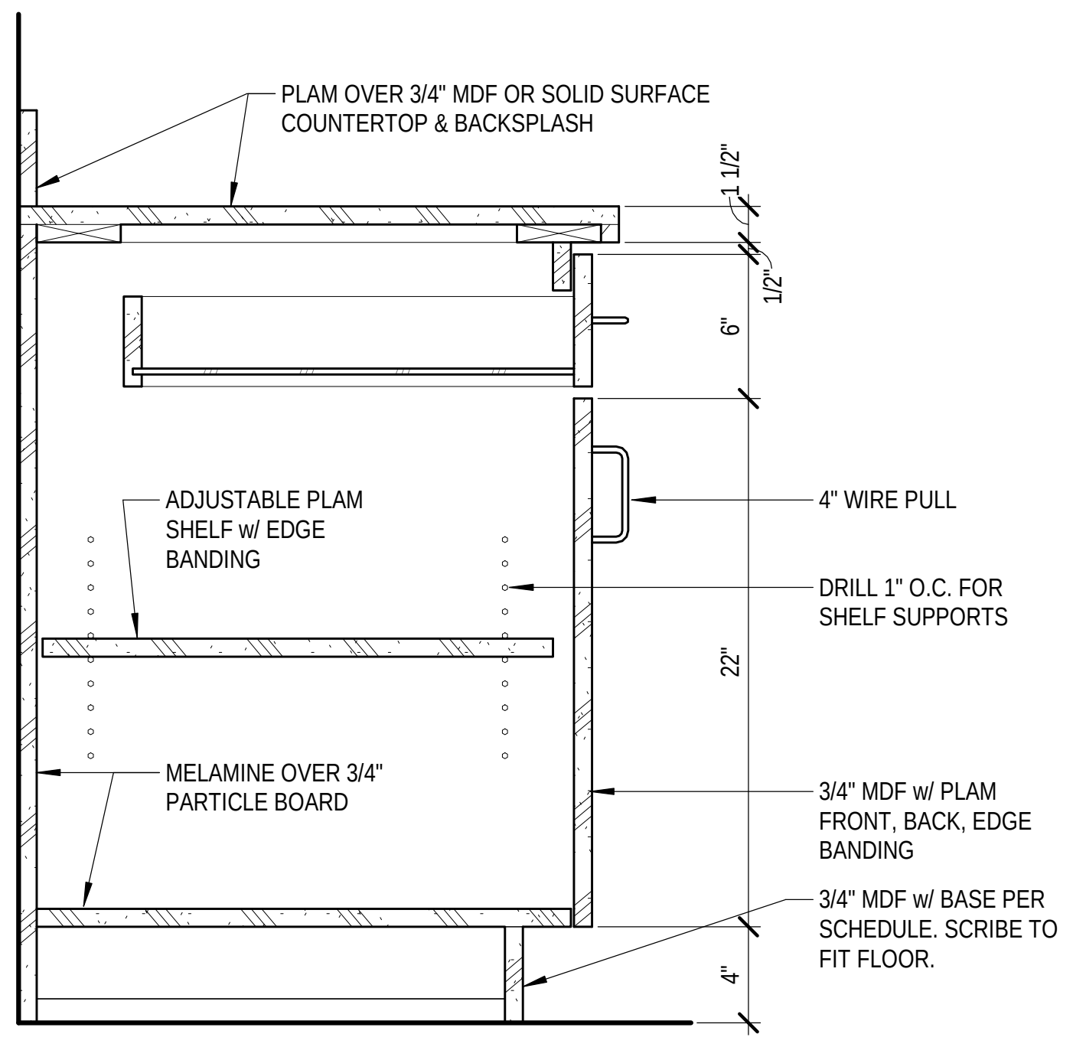
Casework Section - Base Cabinet - Front Bar 14
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP WITH EASED EDGES
1 1/2"
9"
WOOD PANELING
5"
5 1/2"
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
4" WIRE PULL
DRILL 1" O.C. FOR SHELF SUPPORTS
22"
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"
4"
2"

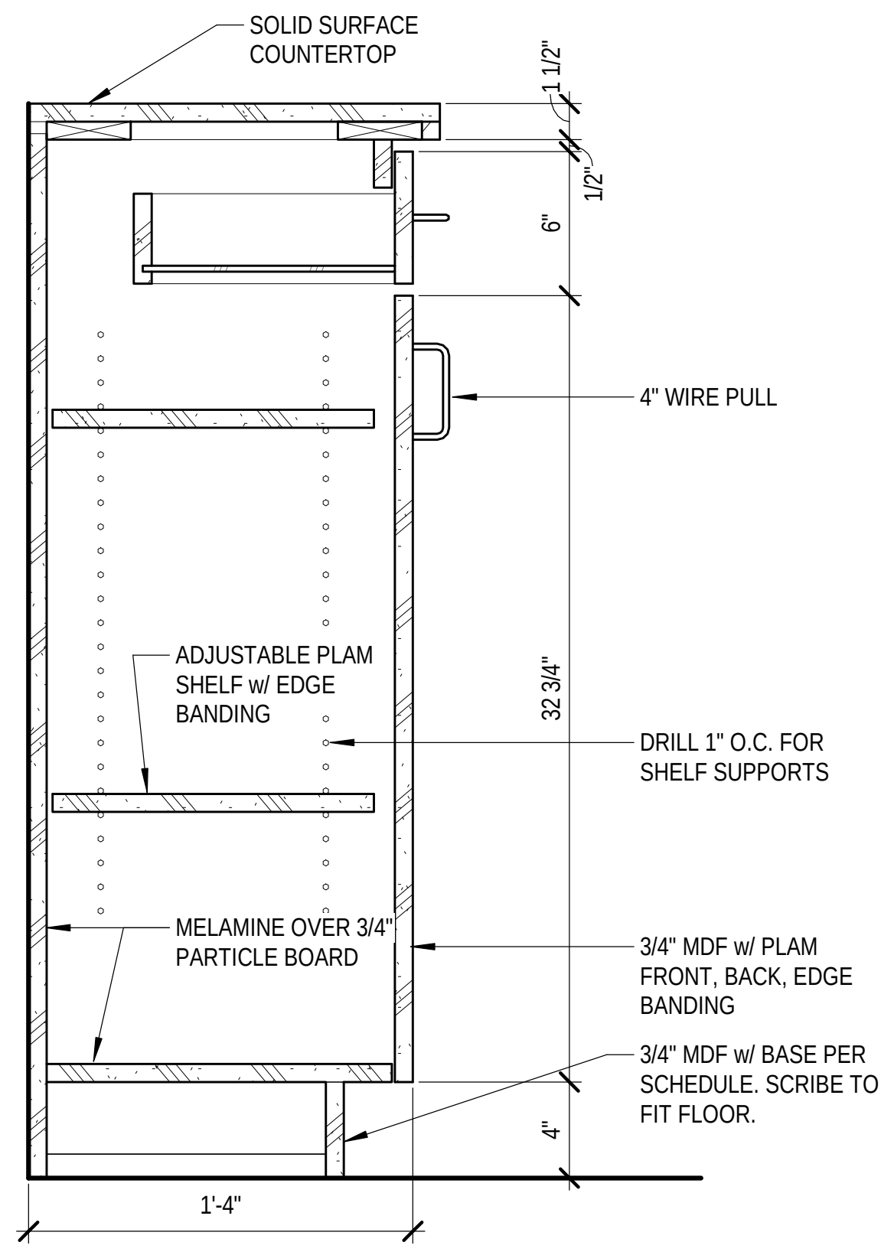
Casework Section - Base Cabinet - Front Bar Tall 7
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP & BACKSPLASH w/ EASED EDGES
SINK, RE: PLUMBING
3/4" MDF w/ PLAM FRONT
STEEL TUBE SUPPORT
3/4" MDF w/ PLAM FRONT & BACK
KNEE CLEARANCE REQUIRED FOR DISABLED ACCESS

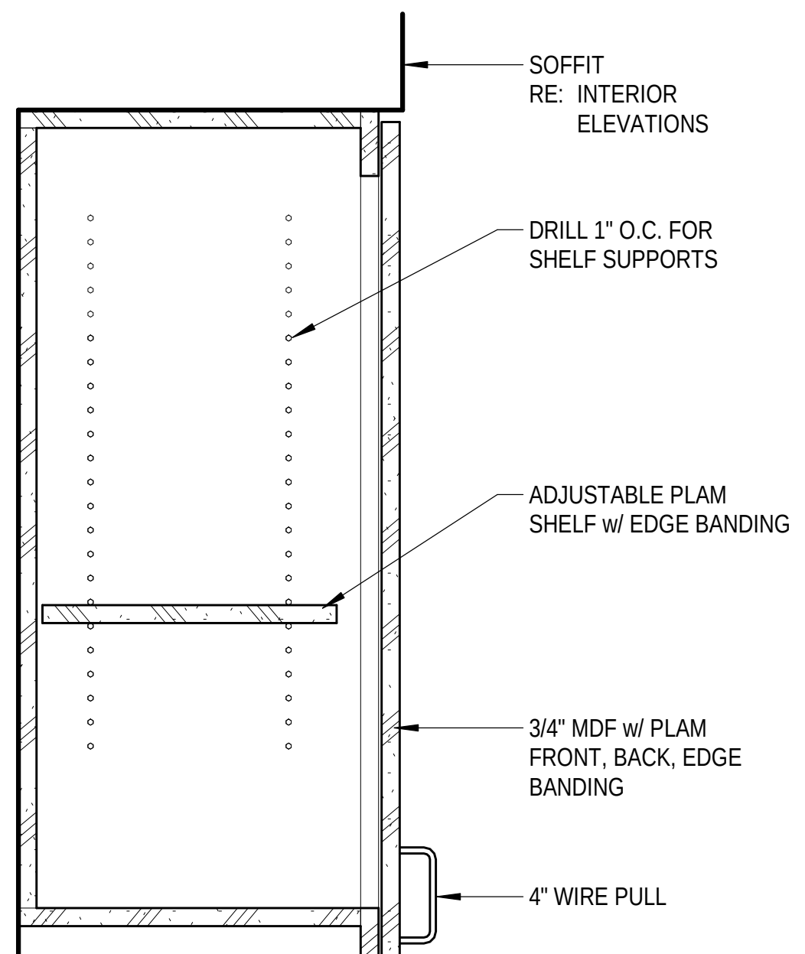
Casework Section - Vanity Counter w/ Apron & Sink 6
1 1/2" = 1'-0"


PLAM OVER 3/4" MDF OR SOLID SURFACE COUNTERTOP & BACKSPLASH
1 1/2"
1/2"
6"
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
4" WIRE PULL
DRILL 1" O.C. FOR SHELF SUPPORTS
22"
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"

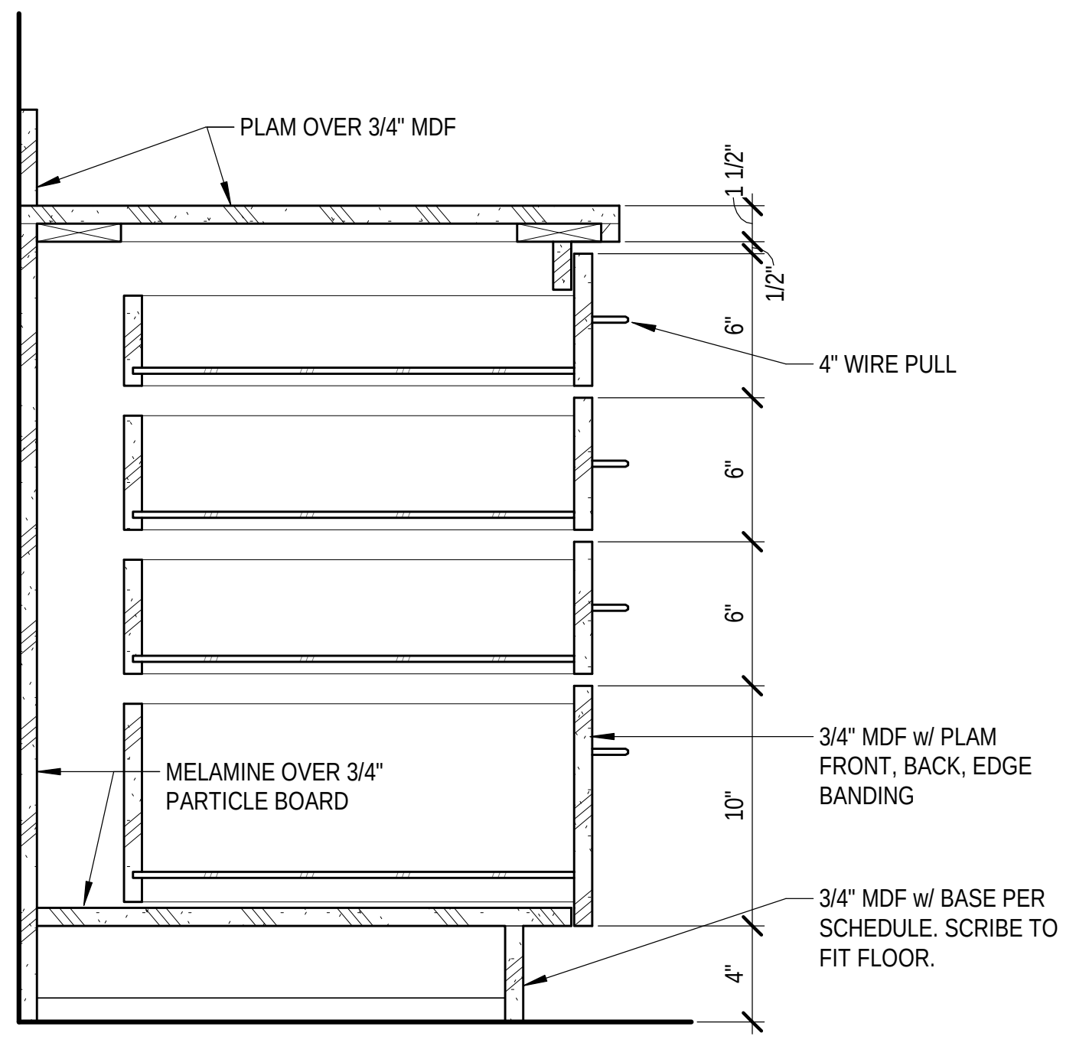
Casework Section - Base Cabinet - 1 Drawer-1 Door 2
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP
1 1/2"
1/2"
6"
4" WIRE PULL
32 3/4"
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
DRILL 1" O.C. FOR SHELF SUPPORTS
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"
1'-4"

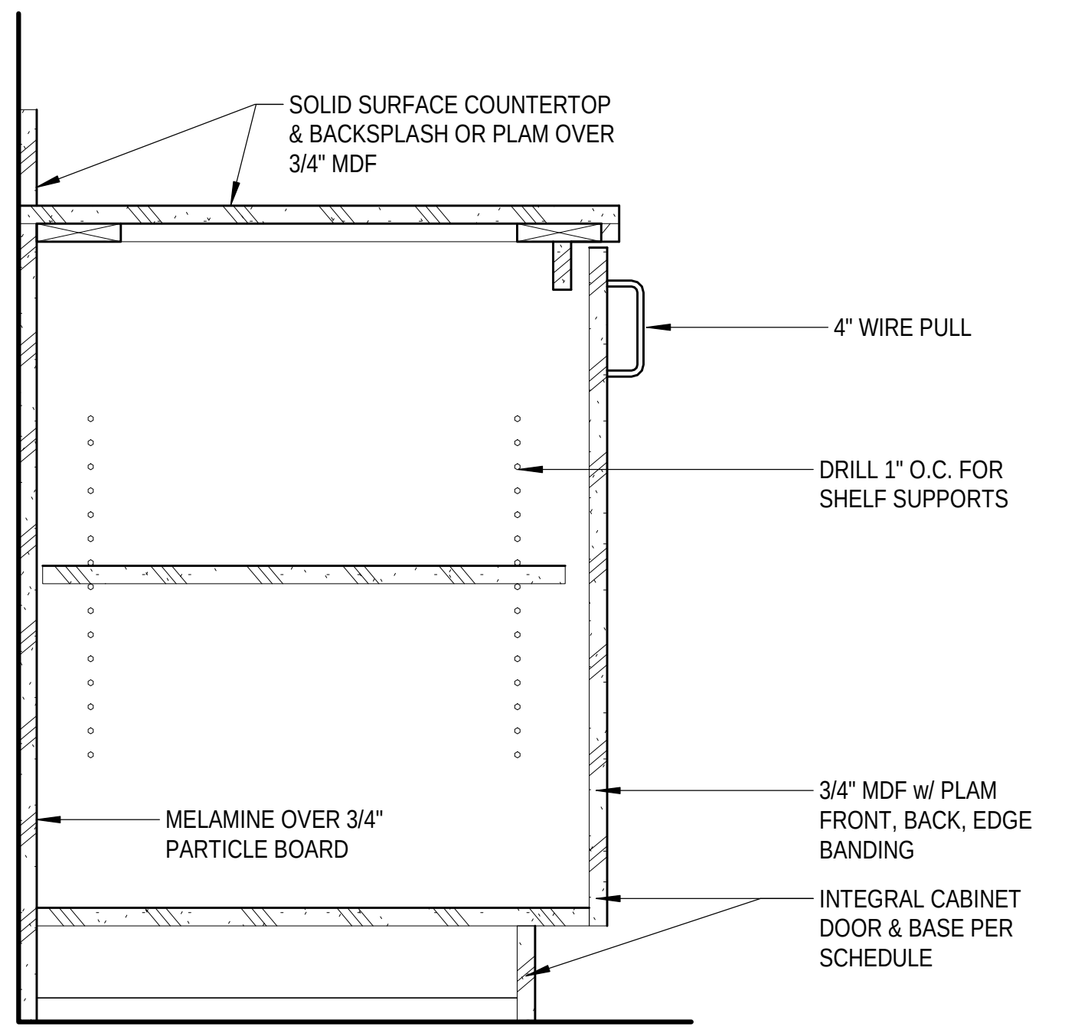
Casework Section - Base Cabinet - Back Bar 13
1 1/2" = 1'-0"


SOFFIT RE: INTERIOR ELEVATIONS
DRILL 1" O.C. FOR SHELF SUPPORTS
ADJUSTABLE PLAM SHELF w/ EDGE BANDING
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
4" WIRE PULL

Casework Section - Upper Cabinet - Standard 9
1 1/2" = 1'-0"


PLAM OVER 3/4" MDF
1 1/2"
1/2"
6"
6"
6"
10"
4" WIRE PULL
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
3/4" MDF w/ BASE PER SCHEDULE. SCRIBE TO FIT FLOOR.
4"

Casework Section - Base Cabinet - 4 Drawers 5
1 1/2" = 1'-0"


SOLID SURFACE COUNTERTOP & BACKSPLASH OR PLAM OVER 3/4" MDF
4" WIRE PULL
DRILL 1" O.C. FOR SHELF SUPPORTS
MELAMINE OVER 3/4" PARTICLE BOARD
3/4" MDF w/ PLAM FRONT, BACK, EDGE BANDING
INTEGRAL CABINET DOOR & BASE PER SCHEDULE

Casework Section - Base Cabinet - 1 Door 1
1 1/2" = 1'-0"

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CHARLES W. KELLER
A-6386
7.19.22

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Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

MILLWORK SECTIONS

A-602

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISH	COMMENTS
100	VESTIBULE	C2	-	-	
101	OPEN AREA LOBBY	SC1	RB	P	
102	PADDOCK LOUNGE	SC	RB	P1	
103	MEETING ROOM(S)	LVT1	RB	P1	
104	STORAGE	SC3	RB	P1	
105	CHECK-IN	ERF	ERF	T3	
106	BAR	ERF	ERF	T3	
107	OFFICE	C1	RB	P1	
108	STORAGE	ERF	ERF	P1	
109	KITCHEN	ERF	ERF	WP	
110	GAME ROOM	LVT2	RB	P2	
111	BREAK ROOM	LVT2	RB	P1	
112	WOMEN	T1	T2	T2	
113	MEN	T1	T2	T2	
114	UTILITY	SC3	RB	P1	
115	HALL	LVT2	RB	P2	
116	STAIR	-	RB	P1	
117	TRACK SIDE SEATING	SC2	RB	P	
118	TRACK AREA	SC2	RB	P	
119	KART SHOP	SC3	RB	P1	
120	ELECTRICAL	SC3	-	P1	
201	OFFICE	C1	RB	P1	
202	OFFICE	C1	RB	P1	
203	OFFICE	C1	RB	P1	
204	CLOSET	SC1	RB	P1	

ROOM FINISH LEGEND

TYPE	CODE	DESCRIPTION	MANUFACTURER	MODEL/PRODUCT	COLOR/STYLE	SIZE	NOTES	CONTACT
CEILING	ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA BEVELED TEGULAR 2X2 WITH 9/16 GRID	WHITE	24X24	NRC .75	
CEILING	ACT2	ACOUSTICAL CEILING TILE	ARMSTRONG	CIRRUS 2X2 SQUARE EDGE WITH 15/16 GRID	BLACK TILE AND GRID	24X24	NRC .7	
CEILING	ACT3	ACOUSTICAL CEILING TILE	ARMSTRONG	KITCHEN ZONE 2X2 WITH 15/16 GRID	WHITE	24X24	SCRUBBABLE FOR KITCHEN	
CEILING	BAFFLE	CEILING BAFFLES	TURF/ZINTRA	BAFFLES	CHARCOAL	VARIES	RE:CEILING PLAN	JANE BENSON 913-219-1139 /PAM REYNOLDS 913-638-7544
BOOTH	BOOTH	BOOTH	SHELBY WILLIAMS	WESTBURY/ CUSTOM BACK HEIGHT - OVERALL BACK HEIGHT 3'-4" AFF/LAMINATE BASE	F1/F2 BASE:BLACK	RE:PLAN	BACK HEIGHT TO GO TO THE UNDERSIDE OF SOLID SURFACE WALL CAP - FIELD VERIFY	LINDSEY STEPHENSON 913-371-5575
FLOOR	C1A	CARPET	MILLIKEN	SURGE	SUR119 CHROMA	PLANK	25%	RHONDA REED 913-907-7585
FLOOR	C1B	CARPET	MILLIKEN	SURGE	SUR109-119 CHROMA W/ SMOLDER	PLANK	75%	
FLOOR	C2	WALK-OFF MAT	SHAW CONTRACT	WELCOME 2 TILE - 5T031	CHARCOAL 31549	24X24	-	GINGER CAR 913-208-2592
FLOOR	ERF	EPOXY RESIN FLOORING	STONEHARD	MICRO FLECK - CUSTOM COLOR BLEND - MATTE FINISH	80% DARK GRAY / 10% BLACK / 5% WHITE / 5% LT GRAY	-		
BOOTH	F1	FABRIC SEAT	$48/YD ALLOTMENT			-		
BOOTH	F2	FABRIC BACK	$52/YD ALLOTMENT			-		
MILLWORK	HW1	DRAWER AND DOOR PULLS	MOCKETT	SLENDER BAR DRAWER PULL DP252	MATTE CHROME	5", 7"	5" AT OVER HEADS AND DOORS, 7" AT LARGE DRAWERS -	
MILLWORK	HW2	DRAWER AND DOOR PULLS	MOCKETT	WIRE DRAWER PULL	STAINLESS STEEL	6"	LOCATION:'BREAK ROOM ONLY	
CASEWORK	L1	PLASTIC LAMINATE	WILSONART		BLACK 1596-60	-	BLACK AT BAR	MANDI BRIDGES 913-484-2691
CASEWORK	L2	PLASTIC LAMINATE	WILSONART		BLACKBIRD 5024K-19 LENO WEAVE FINISH	-	PARTY ROOM -FRONTS / WALL PANEL AT BOOTH	
WALL PANEL	L3	PLASTIC LAMINATE	WILSONART		ASIAN NIGHT 7949K-18	-	BREAK FRONTS	
CASEWORK	L4	PLASTIC LAMINATE	WILSONART		REGIMENTAL RED D12K-18	-	BREAK TOPS	
CASEWORK	L5	PLASTIC LAMINATE	WILSONART		MAGNOLIA 5012K-19	-	RESTROOM FRONTS	
FLOOR	LVT1	LUXURY VINYL TILE	MILLIKEN	FORTIFIED FOUNDATIONS 5MM - PIKE	PIK144 CLOUD	9"X59.7"	PARTY ROOM	RHONDA REED 913-907-7585
FLOOR	LVT2	LUXURY VINYL TILE	TEKNOFLOR SETAGRIP	4.0MM THICKNESS / 22 MIL WEAR LAYER	BLACK CAVIAR SG-4581-D05	18x18	INSTALL BRICK ASHLAR - LOCATION: GAME ROOM SEE MANUFACTURER'S INSTALLATION INSTRUCTION - SUBFLOOR MUST BE NON-POROUS, DUST FREE, NO ADHESIVES	LIISA MCNEIL 816-810-4404
WALL	OP	OPERABLE PARTITION	HUFFCOR	SERIES 641	TRIM: GRAY / VINYL: DESIGNER OR DESIGNER 2	-		
WALL	P1	PAINT	BENJAMIN MOORE		1611 GRAYTINT	-	FIELD LIGHT - FIELD EGGSHELL/SEMI-GLOSS AT RESTROOMS	
WALL	P2	PAINT	BENJAMIN MOORE		1615 ROCK GRAY	-	FIELD DARK	
WALL	P3	PAINT	SHERWIN WILLIAMS		SW 7007 CEILING BIRGHT WHITE	-	CEILING BRIGHT WHITE	
WALL	P4	PAINT	BENJAMIN MOORE		1617 CHEATING HEART	-	CEILING DARK	
WALL	P5	PAINT	SHERWIN WILLIAMS /BM		K1 PANTONE RED	-	RED ACCENT	
WALL	P6	PAINT	BENJAMIN MOORE		1613 SILENT NIGHT	-	TRACK AREA	
DÉCOR	PLANT	ARTIFICIAL PLANT PANEL	CALICO GREENS	HAMPTON			VERIFY WITH OWNER FINAL SELECTION	
FLOOR	RTP1	RACE TRACK FLOOR PAINT	SHERWIN WILLIAMS	PRO PARK B97RD2012	RED 6503-27216	-	RED	
FLOOR	RTP2	RACE TRACK FLOOR PAINT	SHERWIN WILLIAMS	PRO PARK B97WD2434	WHITE 6503-27133	-	WHITE	
FLOOR	RTP3	RACE TRACK FLOOR PAINT	SHERWIN WILLIAMS	PRO PARK B97BD2021	BLACK 6503-27281	-	BLACK	
BASE	RB	RUBBER WALL BASE	TARKETT/JOHNSONITE	RUBBER WALL BASE	BURNT BUMER 63	4", 6"	STRAIGHT (CARPET) COVE AT LVT / SC - 4" AT MILLWORK AND MEZ OFFICES, 6" EVERWHERE ELSE	
FLOOR	SC1	POLISHED CONCRETE				-	RE: SPECIFICATIONS	
FLOOR	SC2	PLANETARY GRIND				-	RE: SPECIFICATIONS	
FLOOR	SC3	SEALED CONCRETE				-	RE: SPECIFICATIONS	
CASEWORK	SS1	QUARTZ SURFACE	CAMBRIA		BLACK ROCK	-	DARK	SHELBY LEWIS 816-506-7134
CASEWORK	SS2	QUARTZ SURFACE	CAMBRIA		MINNESOTA SNOW	-	LIGHT	SHELBY LEWIS 816-506-7134
FLOOR	T1	PORCELAIN TILE	DALTILE	CONCRETE MASONRY FLOOR TILE	ARTISAN GRAY P036 -GROUT: BOSTIK DELOREAN GRAY	16X32	INSTALL: BRICK LENGTH OF RESTROOM - ALL EXPOSED EDGES ARE TO RECEIVE A METAL TRANSITION	
WALL	T2	PORCELAIN TILE	DALTILE	CONCRETE MASONRY DECO TILE	ARTISAN GRAY P036 -GROUT: BOSTIK DELOREAN GRAY	16X32	INSTALL: STACKED ON WALLS	
WALL	T3	PORCELAIN TILE	INTERCERAMIC	DURATEC COLORTHEORY	TBS	12X24	INSTALL: BRICK	MARIANA EASTHAM 608-982-7946
PARTITION	TP1	TOILET PARTITION	BRADLEY	EURO STYLE PARTITIONS - LOFT SERIES	GRAPHITE 21004	-		ALLISON BOSS 636-448-5440
TRANSITION	TS1	TRANSITION STRIP	SCHLUTER	SCHIENE	(AE) SATIN ANODIZED ALUMINUM	-	TILE TO TILE / ANY EXPOSED TILE EDGES	
TRANSITION	TS2	TRANSITION STRIP	SCHLUTER	DILEX HKU	(AE) SATIN ANODIZED ALUMINUM	-	FLOOR TILE COVE TO WALL TILE	
TRANSITION	TS3	TRANSITION STRIP	SCHLUTER	RENO-U	(AE) SATIN ANODIZED ALUMINUM	-	TILE TO LVT	
TRANSITION	TS4	TRANSITION STRIP	SCHLUTER	VIN PRO-U	(AE) SATIN ANODIZED ALUMINUM	-	ERF/LVT TO CONCRETE <1/4" TO MEET ADA	
WALL	WC1	WALL COVERING	CUSTOM WALL GRAPHICS			-	VERIFY WITH OWNER AND GRAPHICS PACKAGE	
WALL	WP	WALL PROTECTION	MARLITE / INPRO	SERIES:FRP	P145 PEWTER	-	ABOVE EPOXY BASE TO CEILING	
WALL	WD	WOOD PANELING	100% RECLAIMED REDWOOD	WILL NEED BACKING - CAN BE RADIUSED - 16SF PER CARTON	LENGTH RANGE 1'-5' - 1/2"X4"X60" SHIPLAP	-	VERIFY WITH OWNER FINAL SELECTION	

FINISH NOTES

1. EXPOSED CEILING TO BE P4 IN ROOM 102 AND 101.

2. EXPOSED CEILING TO BE P3 IN ROOM 117 AND 118.

3. HOLLOW METAL FRAMES TO MATCH ADJACENT WALL PAINT COLOR. DO NOT PAINT 2 COLORS.

4. HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED P2. UNLESS OTHERWISE NOTED ON EXTERIOR ELEVATION.

5. WALL PAINT SCHEME IN YTSVK STRS 118: P6 FLOOR TO _ AFF, P5 STRIPE 2'-0", P1 ABOVE.

6. CPT1A 25% TO FADE TO CPT1B 75% EAST TO WEST IN EACH ROOM.

7. ALL TRANSITION ARE TO MEET ADA REQUIREMENTS.

SAI
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CHARLES W. KELLER
A-6386
7.19.22

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Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

ROOM FINISH SCHEDULE & FINISH LEGEND

A-701

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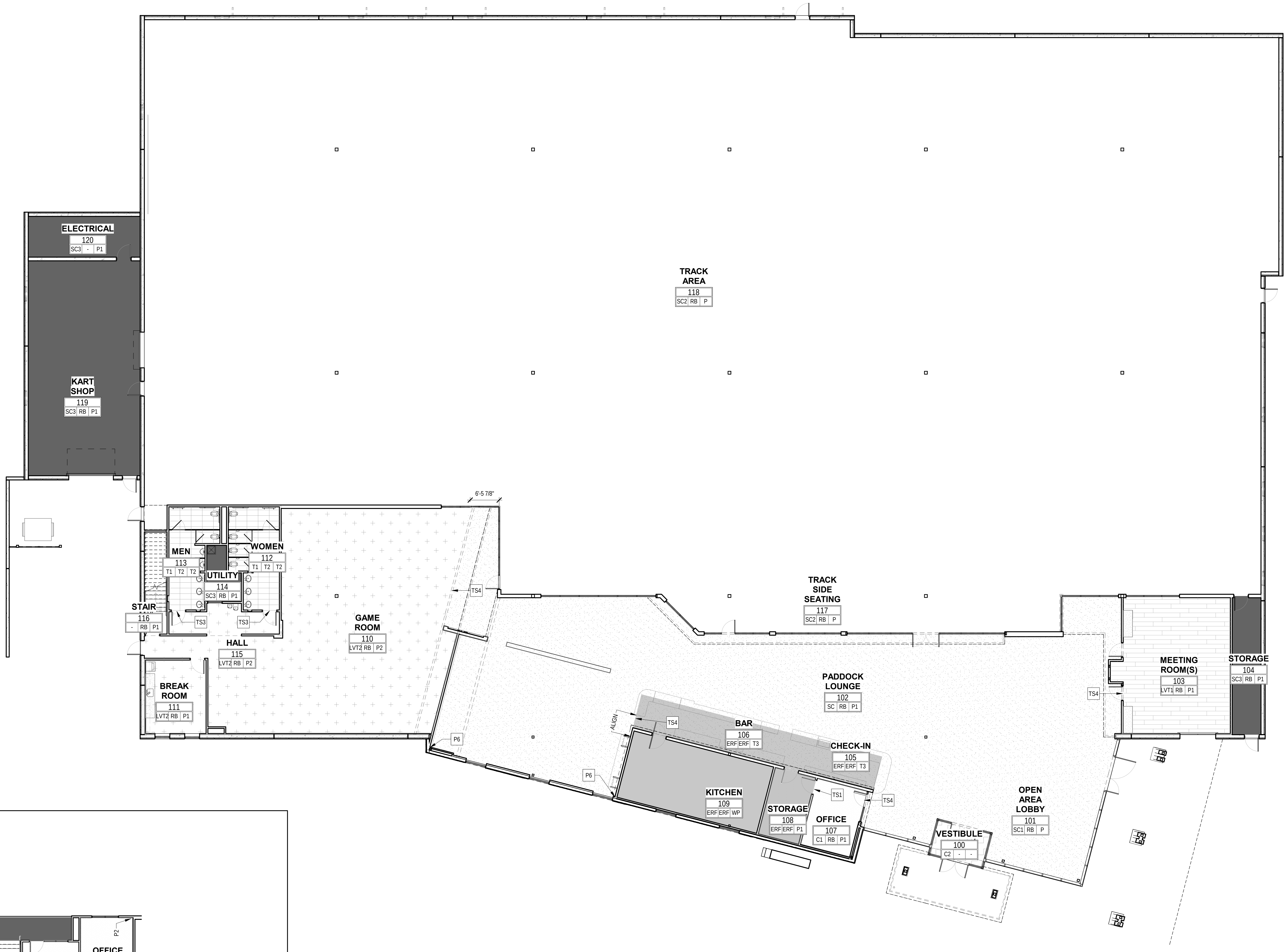
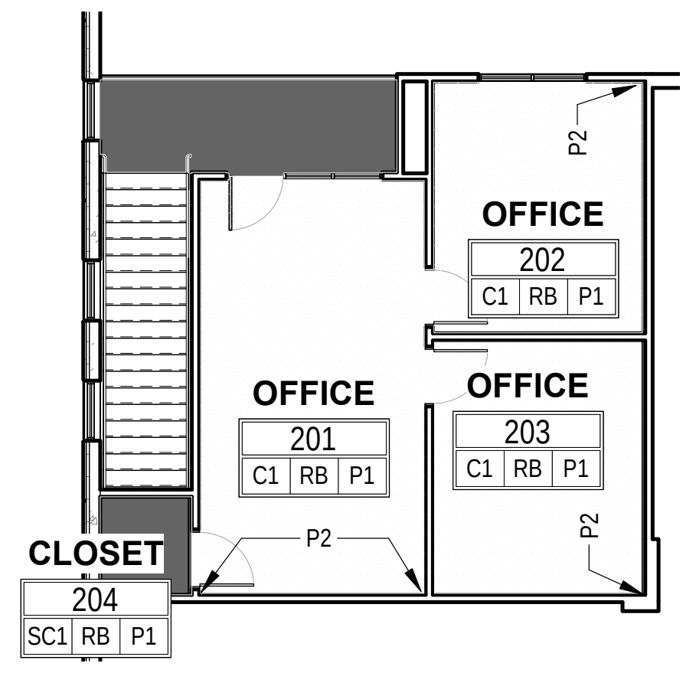
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022



Finish Plan - First Floor 1
3/32" = 1'-0"



Finish Plan - Mezzanine 2
3/32" = 1'-0"

FLOOR PATTERN LEGEND

SC1	POLISHED CONCRETE
SC2	PLOMETARY
SC3	SEALED CONCRETE
12X24 TILE	12x24 FLOOR TILE
ERF	EPOXY RESIN FLOORING
LVT1	LUXURY VINYL FLOORING
LVT2	LUXURY VINYL FLOORING
C1	CARPET TILE
C2	WALK OFF CARPET TILE
WP	

FINISH TAG KEY :

ROOM NUMBER — ###
F | B | W
FLOOR — F
BASE — B
WALL — W

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7.19.22

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CONSTRUCTION DOCUMENTS

July 19, 2022

FINISH PLANS

A-702

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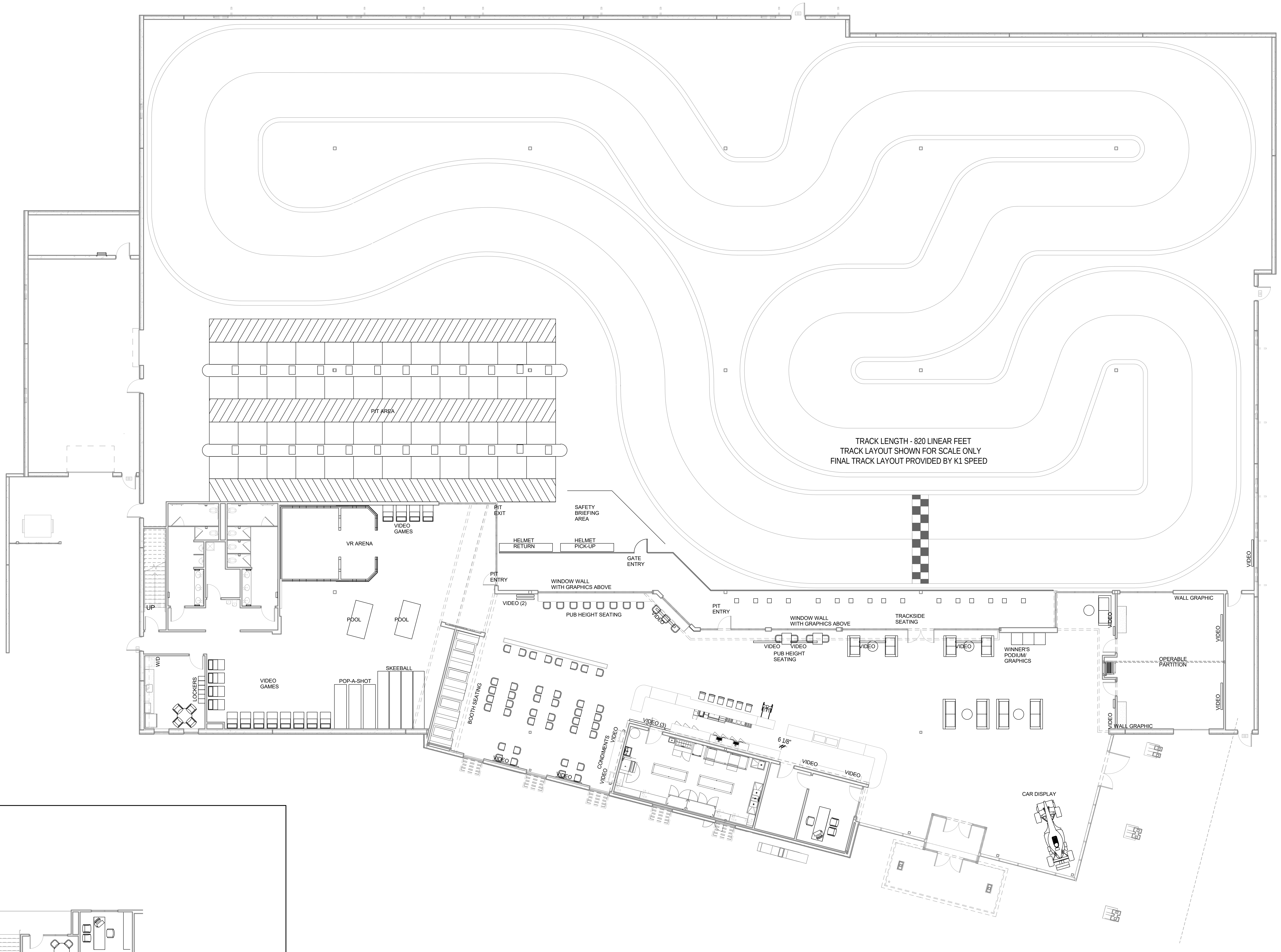
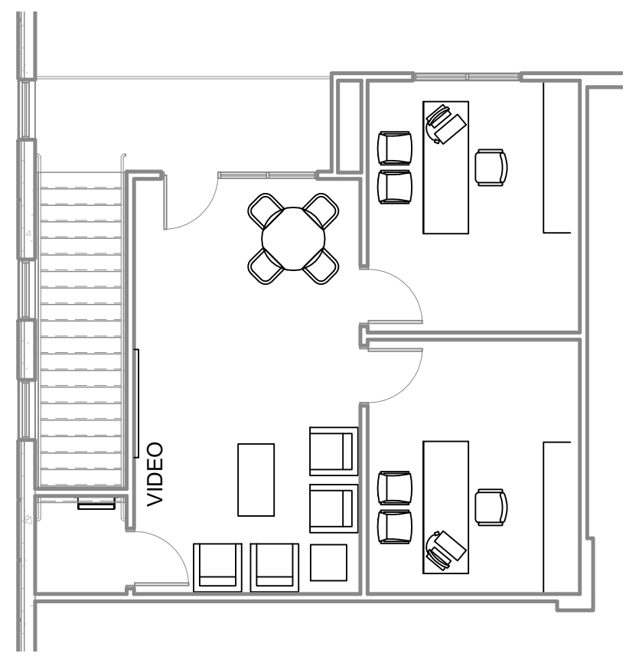
Development Services Department
Lee's Summit, Missouri
09/20/2022

○ **KEYNOTES**





FURNITURE & EQUIPMENT NOTES:

1. THIS DRAWING IS PROVIDED FOR REFERENCE ONLY.
2. ALL FURNITURE AND EQUIPMENT PROVIDED BY OWNER.
3. VERIFY FINAL FURNITURE AND EQUIPMENT WITH OWNER'S VENDORS.
4. COORDINATE ALL POWER AND DATA LOCATIONS WITH OWNER'S VENDORS PRIOR TO ROUGH-IN OF ALL WALL AND FLOOR OUTLETS.
5. OWNER'S VENDORS ARE RESPONSIBLE FOR FIELD VERIFYING ALL CRITICAL DIMENSIONS PRIOR TO ORDERING.

Furniture & Equipment Plan - Mezzanine 2
3/32" = 1'-0"

Furniture & Equipment Plan - First Floor 1
3/32" = 1'-0"

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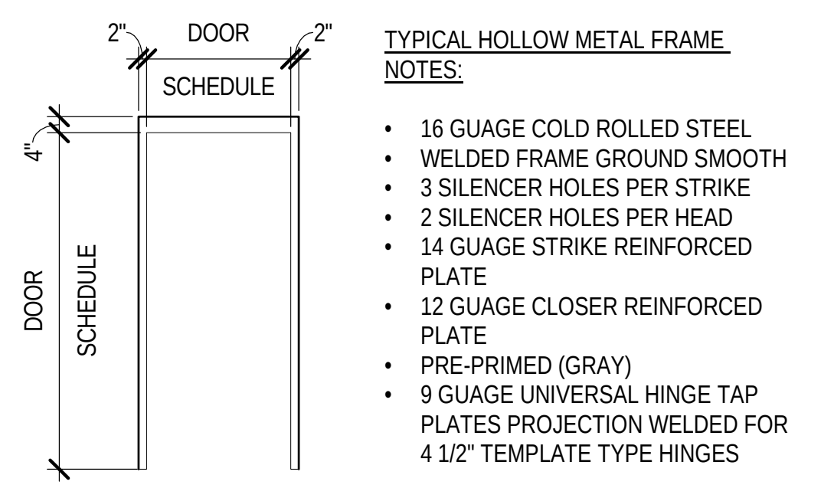
July 19, 2022

FURNITURE & EQUIPMENT PLANS

A-703

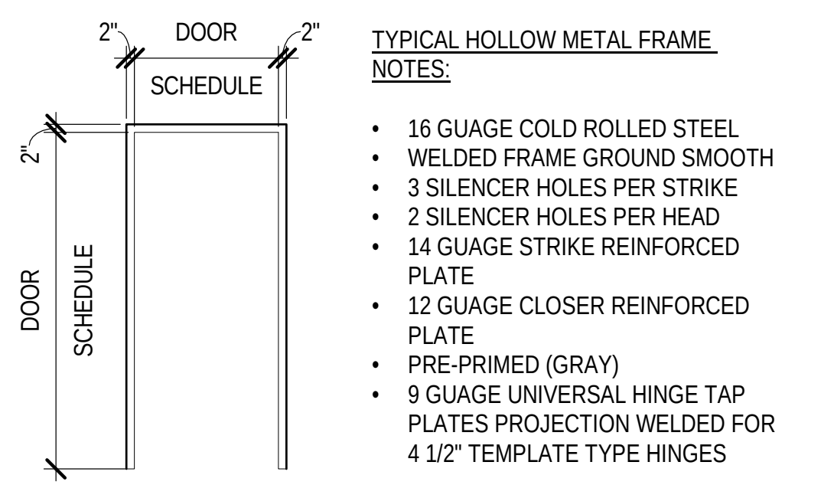


TYPICAL HOLLOW METAL FRAME NOTES:

- 16 GUAGE COLD ROLLED STEEL
- WELDED FRAME GROUND SMOOTH
- 3 SILENCER HOLES PER STRIKE
- 2 SILENCER HOLES PER HEAD
- 14 GUAGE STRIKE REINFORCED PLATE
- 12 GUAGE CLOSER REINFORCED PLATE
- PRE-PRIMED (GRAY)
- 9 GUAGE UNIVERSAL HINGE TAP PLATES PROJECTION WELDED FOR 4 1/2" TEMPLATE TYPE HINGES

HOLLOW METAL FRAME

HM4
1/4" = 1'-0"



TYPICAL HOLLOW METAL FRAME NOTES:

- 16 GUAGE COLD ROLLED STEEL
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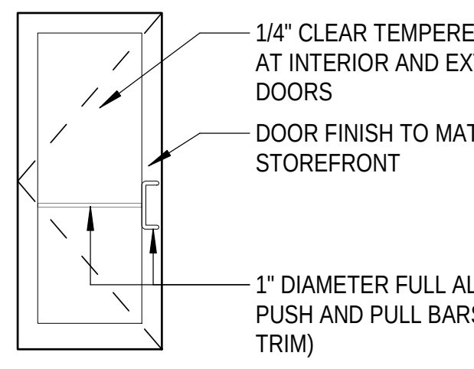
- 14 GUAGE STRIKE REINFORCED PLATE
- 12 GUAGE CLOSER REINFORCED PLATE
- PRE-PRIMED (GRAY)
- 9 GUAGE UNIVERSAL HINGE TAP PLATES PROJECTION WELDED FOR 4 1/2" TEMPLATE TYPE HINGES

HOLLOW METAL FRAME

HM2
1/4" = 1'-0"

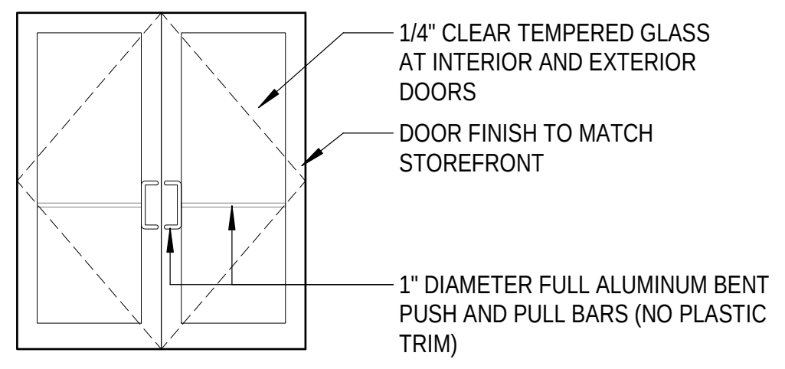
NOTE:
PROVIDE CONCEALED
CLOSER (TYPICAL)


1/4" CLEAR TEMPERED GLASS AT INTERIOR AND EXTERIOR DOORS
DOOR FINISH TO MATCH STOREFRONT
1" DIAMETER FULL ALUMINUM BENT PUSH AND PULL BARS (NO PLASTIC TRIM)

WIDE STILE ALUMINUM
STOREFRONT DOOR

1GWA
1/4" = 1'-0"

NOTE:
PROVIDE CONCEALED
CLOSERS (TYPICAL)


1/4" CLEAR TEMPERED GLASS AT INTERIOR AND EXTERIOR DOORS
DOOR FINISH TO MATCH STOREFRONT
1" DIAMETER FULL ALUMINUM BENT PUSH AND PULL BARS (NO PLASTIC TRIM)

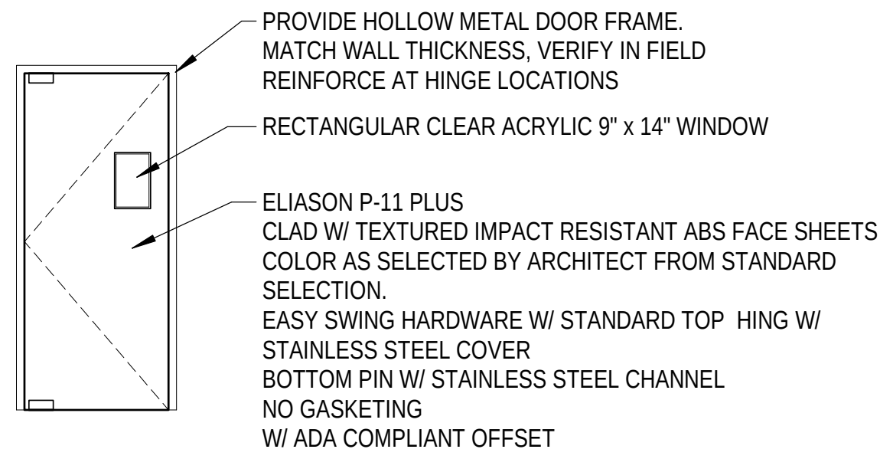
WIDE STILE ALUMINUM
STOREFRONT DOORS

2GWA
1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	ROOM #	ROOM NAME	WIDTH	HEIGHT	TYPE	FRAME TYPE	HEAD DETAIL	JAMB DETAIL	THRESHOLD DETAIL	HDWR. GROUP #	COMMENTS
100A			6' - 0"	7' - 0"	2GWA		H5	J5		2	
100B	100	VESTIBULE	6' - 0"	7' - 0"	2GWA		H5	J5		3	
101	101	OPEN AREA LOBBY	8' - 0"	7' - 11"	2GWA		H6	J6		4	
103A	103	MEETING ROOM(S)	3' - 0"	7' - 0"	1GWA		H5	J5		12	
103B	103	MEETING ROOM(S)	3' - 0"	7' - 0"	1GWA		H5	J5		12	
103C	103	MEETING ROOM(S)	8' - 0"	8' - 0"	OGPA		H2	J2	T1	1	
104A	104	STORAGE	3' - 0"	7' - 0"	1FHS	HM4	H3	J3		5	
104B	104	STORAGE	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		10	
107A	107	OFFICE	3' - 0"	6' - 11"	1GWA		H5	J5		10	
107B	108	STORAGE	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		10	
108	108	STORAGE	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		10	
109	109	KITCHEN	3' - 0"	7' - 0"	1THP	HM2	H7	J7		19	
110A	117	TRACK SIDE SEATING	3' - 0"	6' - 10 1/2"	1GWA		H5	J5		13	
111	111	BREAK ROOM	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		10	
112	112	WOMEN	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		11	
113	113	MEN	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		11	
114	114	UTILITY	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		16	
115	115	HALL	3' - 0"	7' - 0"	1NHS	HM4	H3	J3		9	
116	116	STAIR	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		10	
117A	117	TRACK SIDE SEATING	6' - 0"	7' - 0"	2GWA		H5	J5		14	
117B	117	TRACK SIDE SEATING	3' - 0"	7' - 0"	1GWA		H5	J5		13	
118A	118	TRACK AREA	3' - 0"	7' - 0"	1FHS	HM4	H3	J3		6	
118B	118	TRACK AREA	3' - 0"	7' - 0"	1FHS	HM4	H3	J3		6	
118C	118	TRACK AREA	3' - 0"	7' - 0"	1NHS	HM4	H3	J3		7	
119A	119	KART SHOP	3' - 0"	7' - 0"	1FHS	HM4	H3	J3		9	
119B	118	TRACK AREA	3' - 0"	7' - 0"	1NHS	HM4	H3	J3		17	
119C	118	TRACK AREA	8' - 0"	8' - 0"	OFCS		H1	J1		1	
119D	119	KART SHOP	10' - 0"	10' - 0"	OFPS		H2	J2	T1	1	
120	120	ELECTRICAL	3' - 0"	7' - 0"	1FHS	HM4	H3	J3		8	
201	201	OFFICE	3' - 0"	7' - 0"	1GWA	HM2	H4	J4		20	
202	202	OFFICE	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		18	
203	203	OFFICE	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		18	
204	204	CLOSET	3' - 0"	7' - 0"	1FHS	HM2	H4	J4		15	

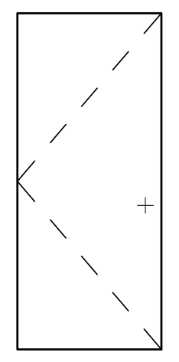
NOTE:
- PROVIDE INSULATED DOORS AT ALL EXTERIOR LOCATIONS (TYPICAL)
- DOORS SHALL INCLUDE:
  1. SINGLE PANE VIEW LITE
  2. SPRING ASSIST
  3. HOLD OPEN
  4. WELD PLATES
  5. HOLLOW METAL FRAME
  6. SELF-CLOSING GRAVITY V-CAM HINGES


PROVIDE HOLLOW METAL DOOR FRAME. MATCH WALL THICKNESS, VERIFY IN FIELD REINFORCE AT HINGE LOCATIONS
RECTANGULAR CLEAR ACRYLIC 9" x 14" WINDOW
ELIASON P-11 PLUS CLAD W/ TEXTURED IMPACT RESISTANT ABS FACE SHEETS COLOR AS SELECTED BY ARCHITECT FROM STANDARD SELECTION. EASY SWING HARDWARE W/ STANDARD TOP HING W/ STAINLESS STEEL COVER BOTTOM PIN W/ STAINLESS STEEL CHANNEL NO GASKETING W/ ADA COMPLIANT OFFSET

DOUBLE ACTING
TRAFFIC DOOR

1THP
1/4" = 1'-0"

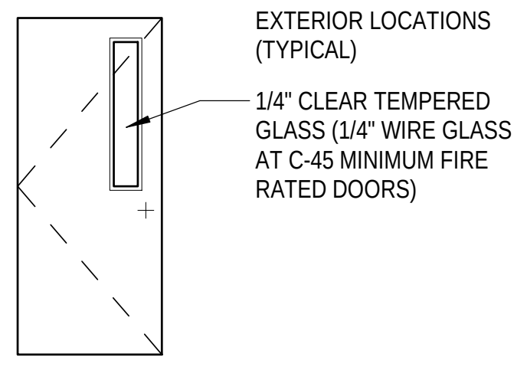
NOTE:
PROVIDE INSULATED
DOORS AT ALL
EXTERIOR LOCATIONS
(TYPICAL)



FLUSH HOLLOW CORE
STEEL DOOR

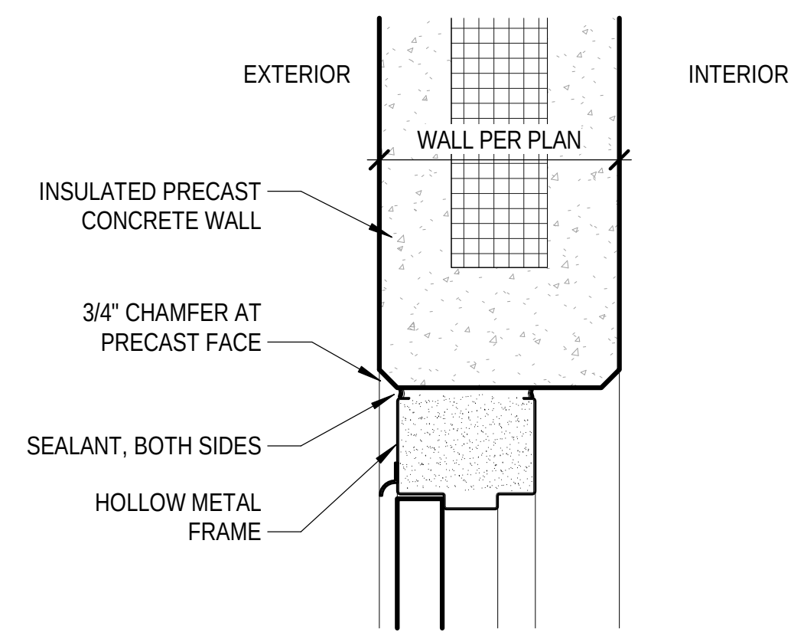
1FHS
1/4" = 1'-0"

NOTE:
PROVIDE INSULATED
DOORS AT ALL
EXTERIOR LOCATIONS
(TYPICAL)


1/4" CLEAR TEMPERED GLASS (1/4" WIRE GLASS AT C-45 MINIMUM FIRE RATED DOORS)

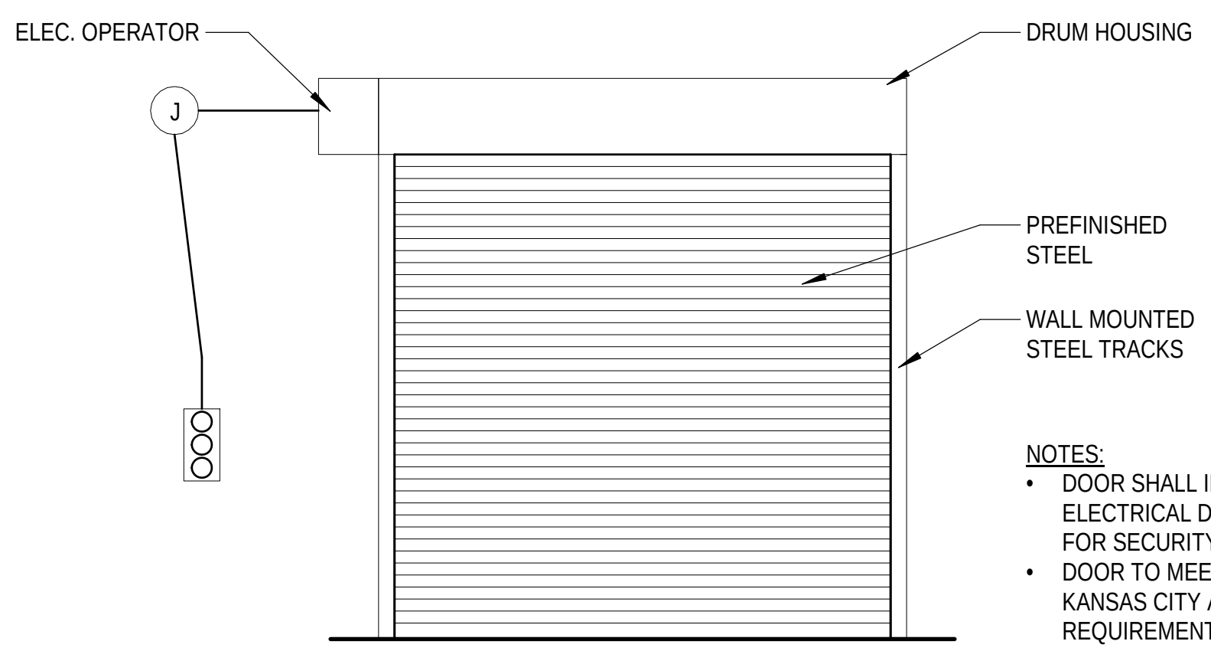
FLUSH HOLLOW CORE
STEEL DOOR
WITH NARROW LITE

1NHS
1/4" = 1'-0"



HEAD - HM FRAME IN
PRECAST CONCRETE PANEL

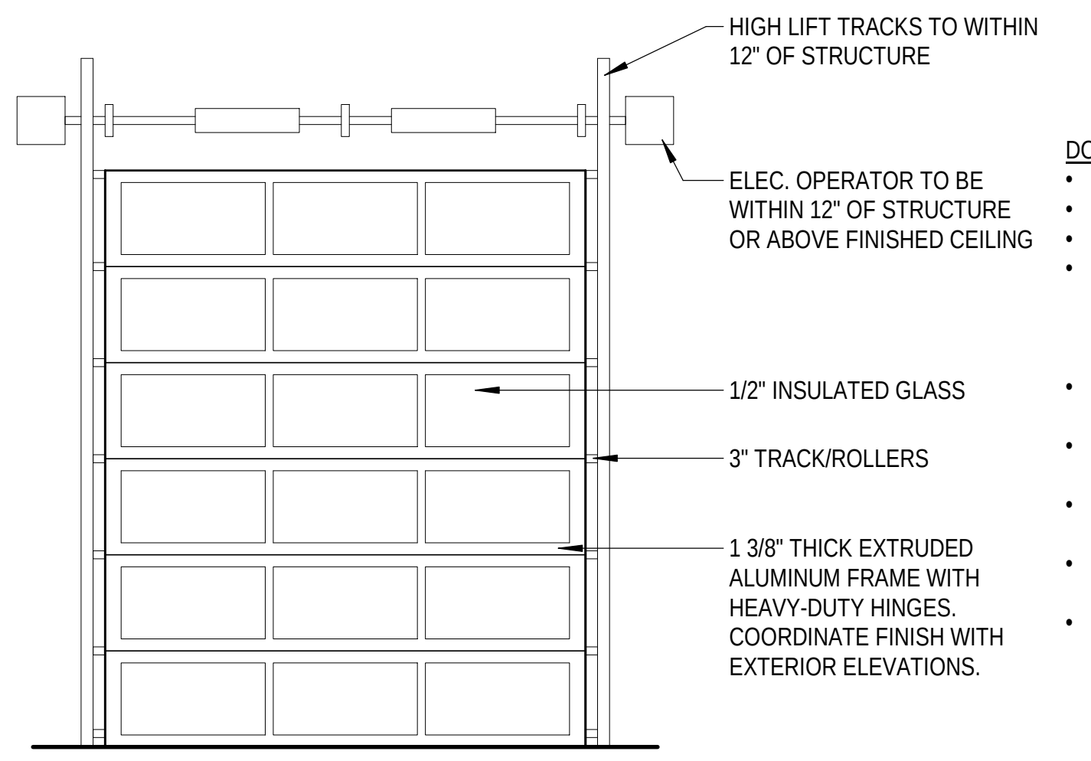
H3
1 1/2" = 1'-0"



NOTES:
- DOOR SHALL INCLUDE SAFETY EDGE ELECTRICAL DICONNECT SWITCH FOR SECURITY
- DOOR TO MEET OR EXCEED THE KANSAS CITY AREA WIND LOAD REQUIREMENT FOR A BASIC WIND SPEED OF 90 MPH AS REQUIRED BY SECTION 1609 OF THE 2012 IBC

INSULATED OVERHEAD
COILING STEEL DOOR

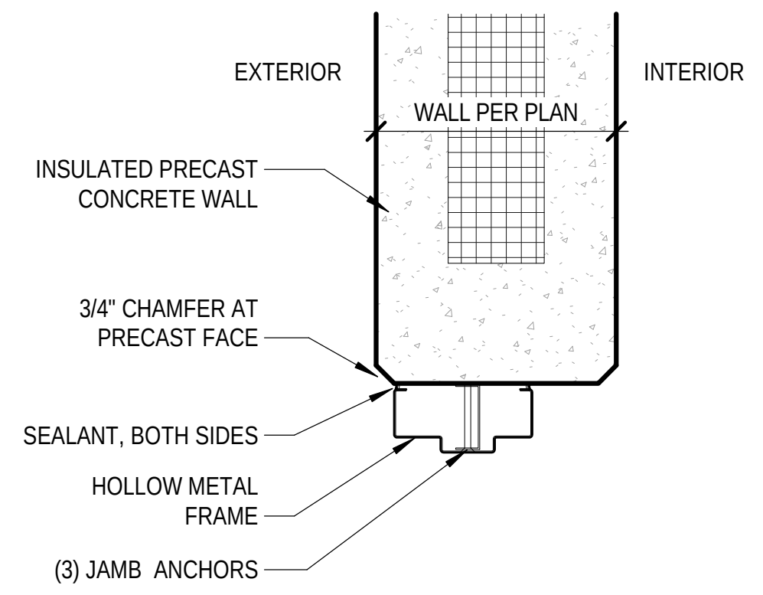
OFCS
1/4" = 1'-0"


HIGH LIFT TRACKS TO WITHIN 12" OF STRUCTURE
ELEC. OPERATOR TO BE WITHIN 12" OF STRUCTURE OR ABOVE FINISHED CEILING
1/2" INSULATED GLASS
3" TRACK/ROLLERS
1 3/8" THICK EXTRUDED ALUMINUM FRAME WITH HEAVY-DUTY HINGES. COORDINATE FINISH WITH EXTERIOR ELEVATIONS.

DOOR SHALL INCLUDE:
- FULL WEATHER STRIPPING
- 50,000 CYCLE SPRINGS
- 3" TRACKS
- REMOTE TO HAVE 1 BUTTON TO OPERATE EACH DOOR INDIVIDUALLY FOR OPEN/CLOSE, STOP/REVERSE ACTIONS
- PNEUMATIC SAFETY EDGE TAKE-UP REEL WITH PHOTOEYES
- DOOR HEIGHT CONTROL BOX FOR 8" CLEAR OPENING HEIGHT
- CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
- DOOR SHALL MEET OR EXCEED THE KANSAS CITY AREA WIND LOAD REQUIREMENT FOR A BASIC WIND SPEED OF 90 MPH AS REQUIRED BY SECTION 1609 OF THE 2012 IBC

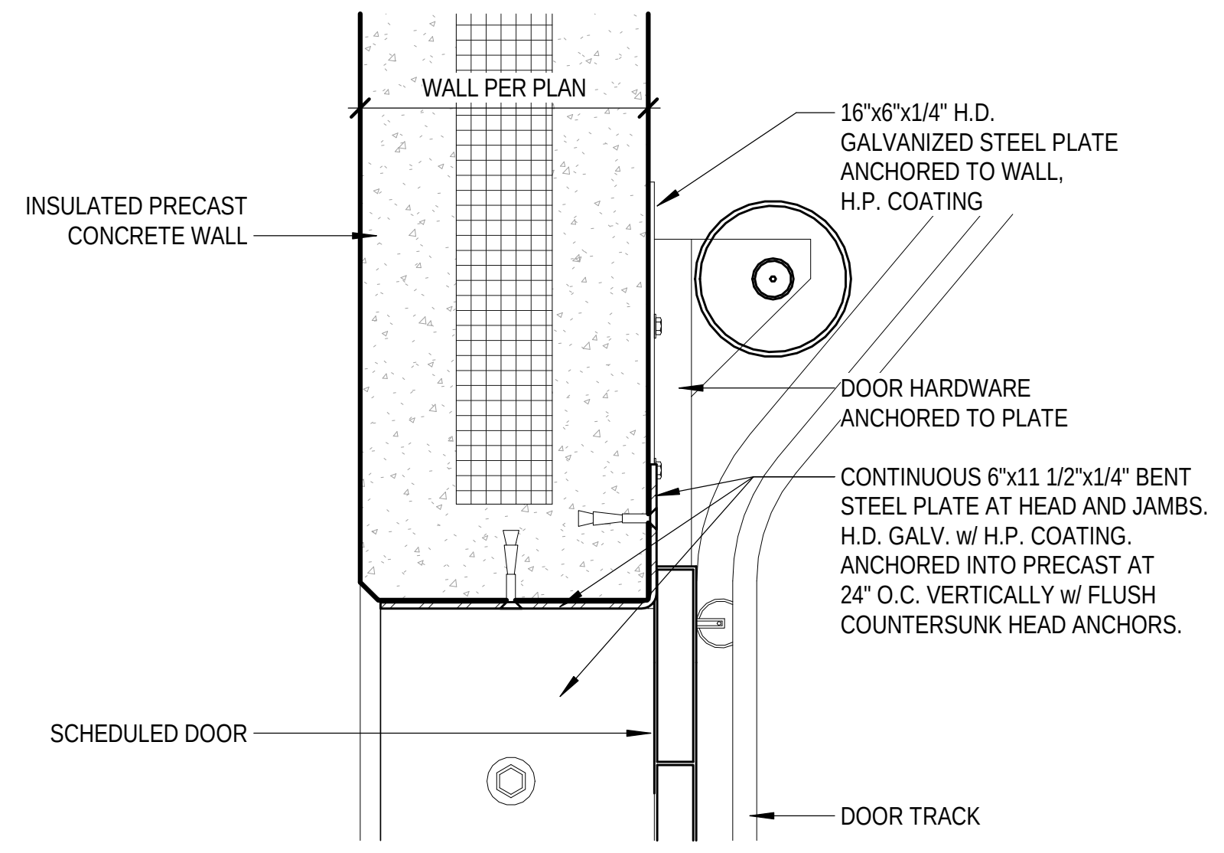
SECTIONAL OVERHEAD DOOR
WITH FULL GLASS IN ALUMINUM FRAMED PANELS
& HIGH LIFT TRACKS

OGPA
1/4" = 1'-0"



JAMB - HM FRAME IN
PRECAST CONC. PANEL

J3
1 1/2" = 1'-0"


WALL PER PLAN
16"x6"x1/4" H.D. GALVANIZED STEEL PLATE ANCHORED TO WALL, H.P. COATING
INSULATED PRECAST CONCRETE WALL
DOOR HARDWARE ANCHORED TO PLATE
CONTINUOUS 6"x11 1/2"x1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
SCHEDULED DOOR
DOOR TRACK

HEAD - SECTIONAL OVERHEAD DOOR
IN PRECAST WALL

H2
1 1/2" = 1'-0"

DOOR TYPE LEGEND

Door Type:
1 = Single
2 = Double
B = Bifold
O = Overhead
P = Pocket
S = Sliding

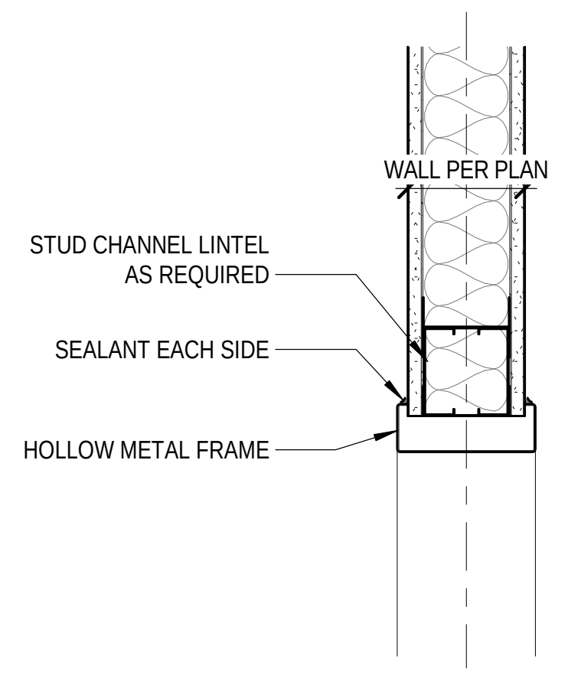
Material:
A = Aluminum
F = Fiberglass
P = Plastic
S = Steel
W = Wood

Door Type Code: **1 F S W**
(Per Door Schedule)

Defining Feature:
B = Fabric
E = Embossed
F = Flush
G = Glass
L = Louver
N = Narrow Lite
S = Security
T = Traffic
V = View Lite(s)

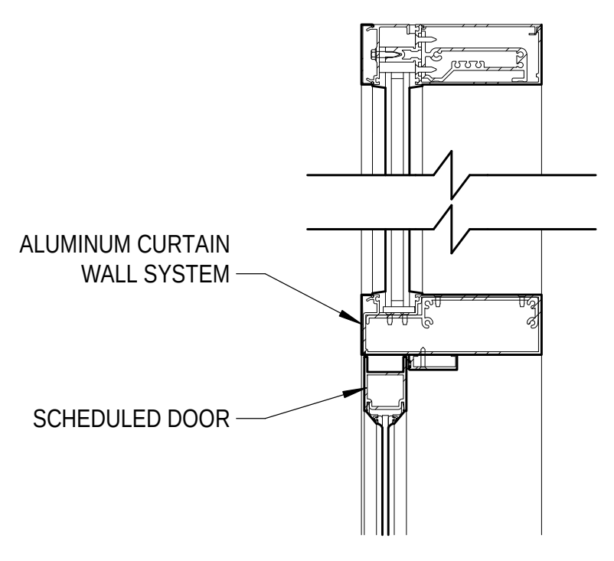
Construction:
C = Coiling
G = Grille
H = Hollow Core
M = Medium Stile
N = Narrow Stile
P = Panel (Sectional)
R = Shutter
S = Solid Core
W = Wide Stile

Example Shown = Single Flush Solid Core Wood



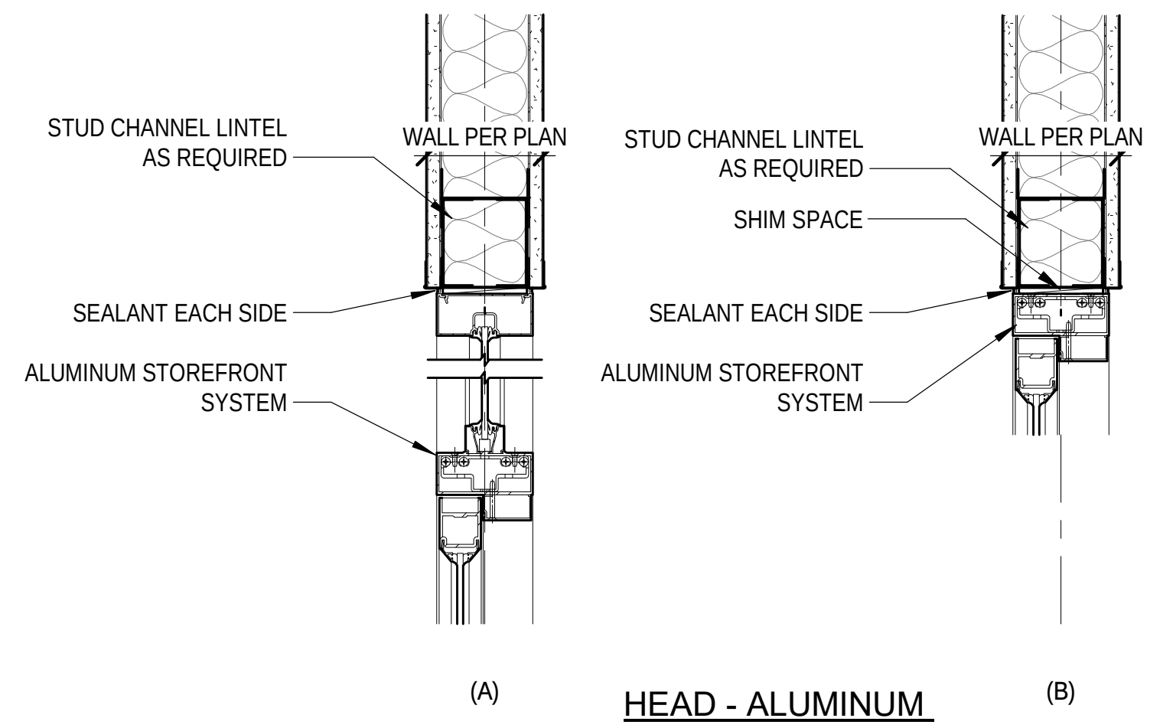
HEAD - HM CASED OPENING
IN METAL STUD WALL

H7
1 1/2" = 1'-0"



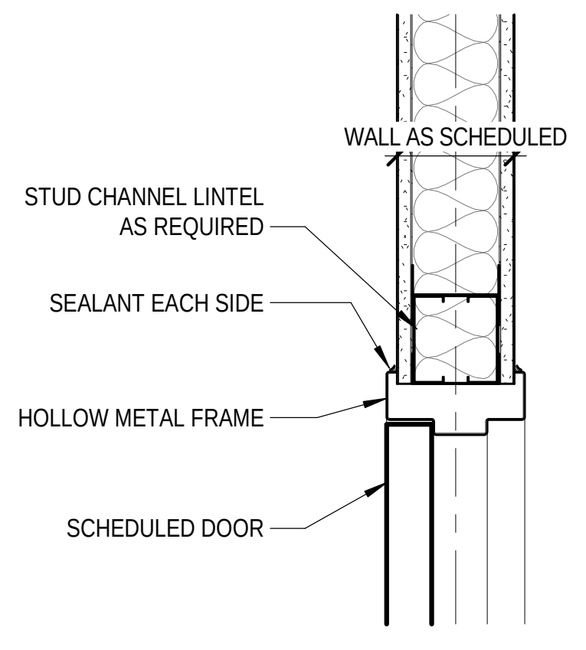
HEAD - STOREFRONT
DOOR IN CURTAIN WALL

H6
1 1/2" = 1'-0"



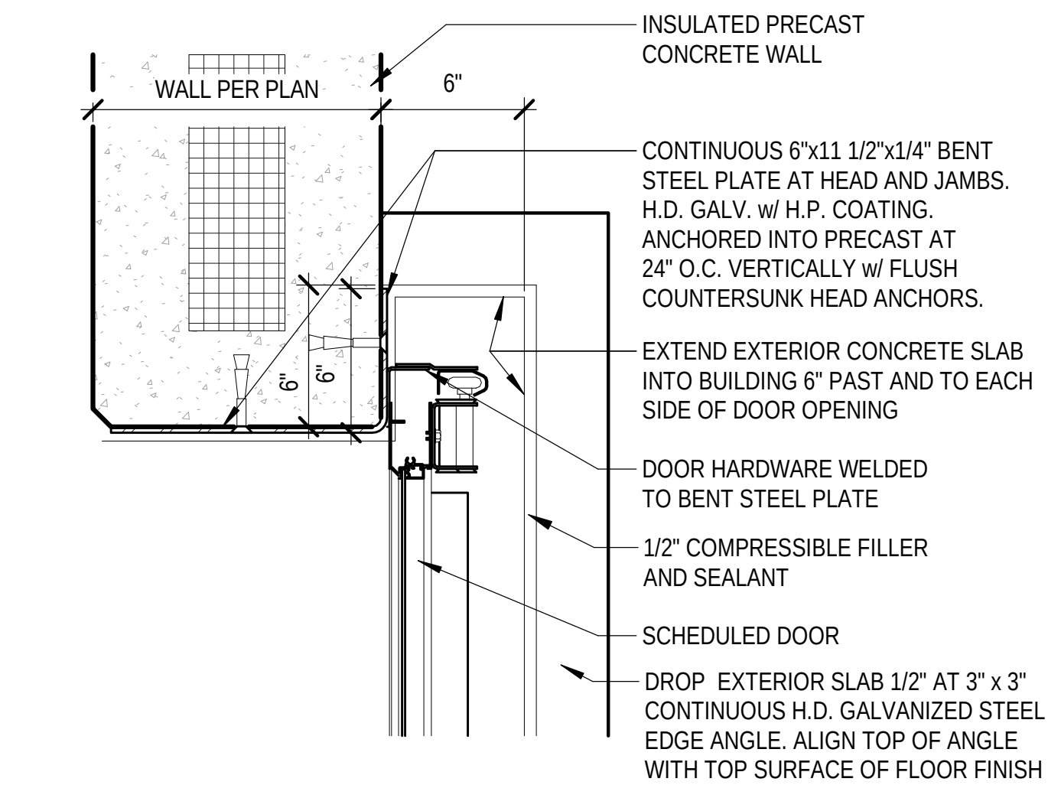
HEAD - ALUMINUM
FRAME IN STUD WALL

H5
1 1/2" = 1'-0"



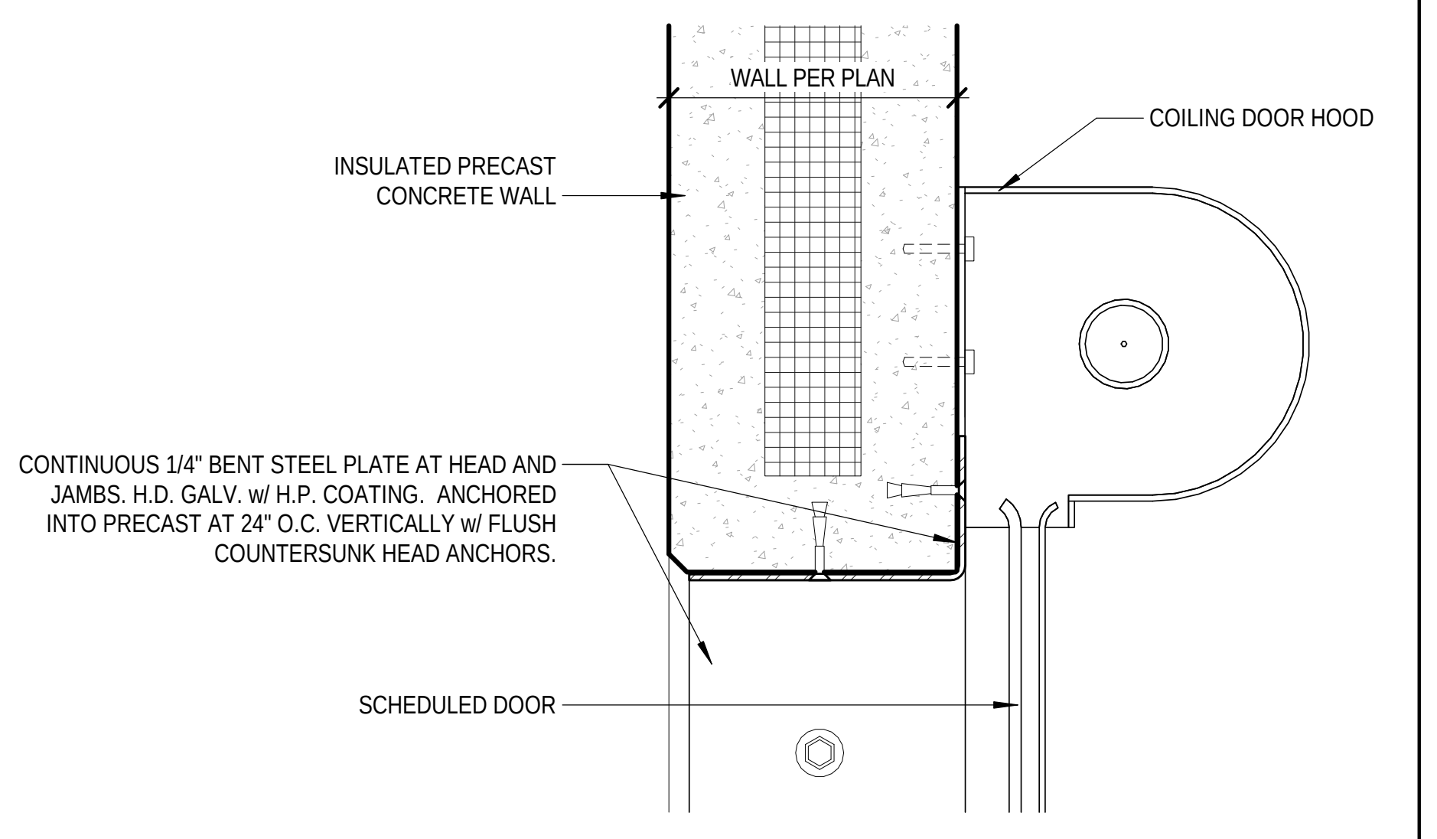
HEAD - HM FRAME
IN MTL STUD WALL

H4
1 1/2" = 1'-0"


WALL PER PLAN
6"
6"
6"
INSULATED PRECAST CONCRETE WALL
CONTINUOUS 6"x11 1/2"x1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
EXTEND EXTERIOR CONCRETE SLAB INTO BUILDING 6" PAST AND TO EACH SIDE OF DOOR OPENING
DOOR HARDWARE WELDED TO BENT STEEL PLATE
1/2" COMPRESSIBLE FILLER AND SEALANT
SCHEDULED DOOR
DROP EXTERIOR SLAB 1/2" AT 3" x 3" CONTINUOUS H.D. GALVANIZED STEEL EDGE ANGLE. ALIGN TOP OF ANGLE WITH TOP SURFACE OF FLOOR FINISH

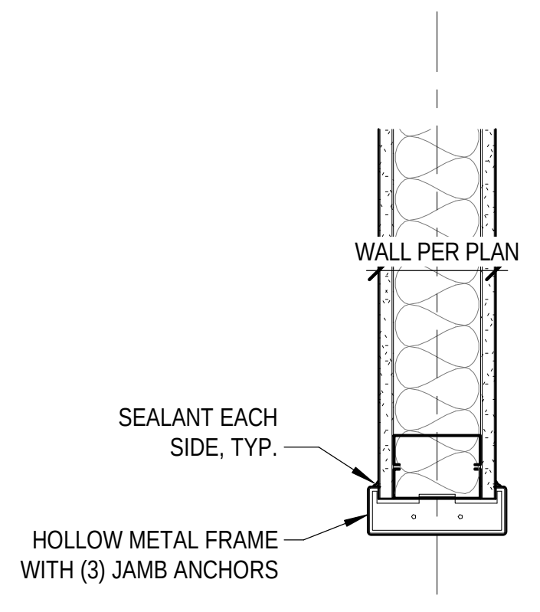
JAMB - SECTIONAL OVERHEAD DOOR
IN PRECAST WALL

J2
1 1/2" = 1'-0"


WALL PER PLAN
COILING DOOR HOOD
INSULATED PRECAST CONCRETE WALL
CONTINUOUS 1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
SCHEDULED DOOR

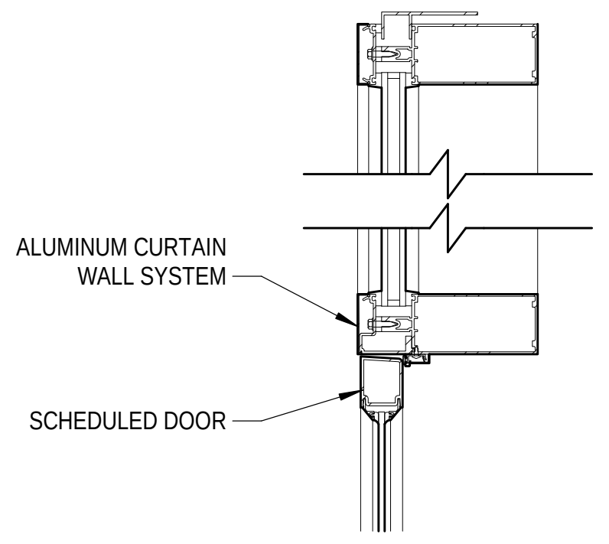
HEAD - OVERHEAD COILING DOOR
IN PRECAST CONCRETE WALL

H1
1 1/2" = 1'-0"



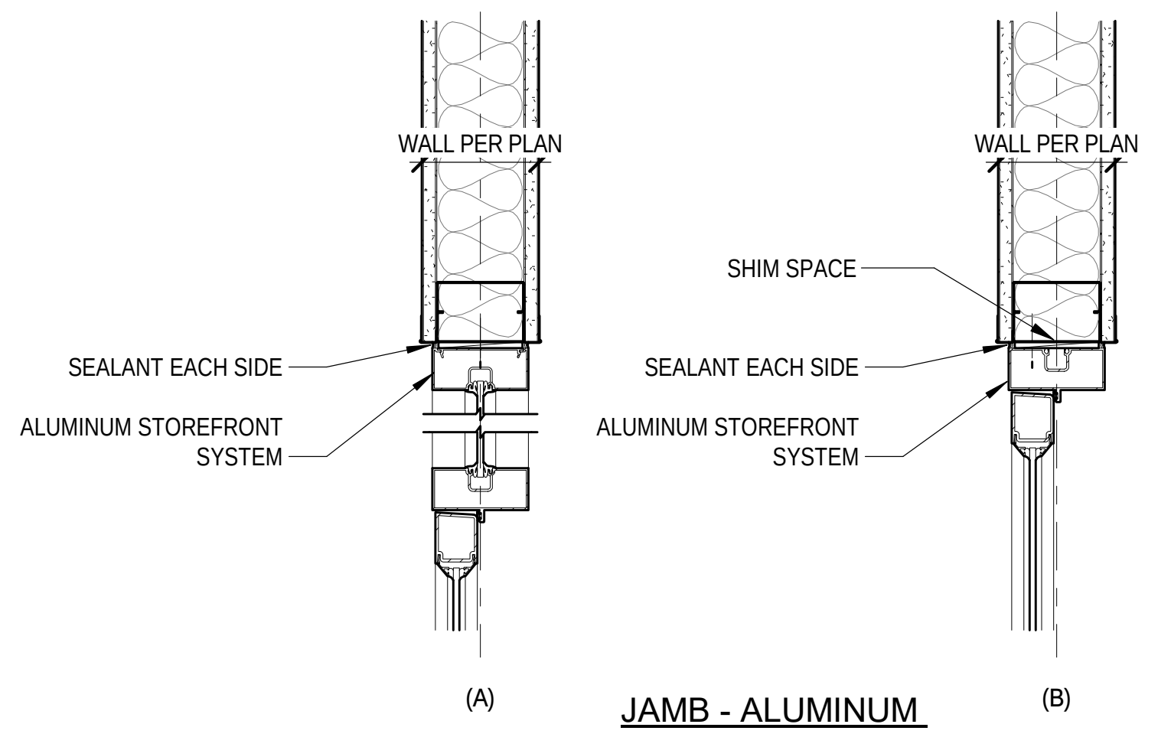
JAMB - HM CASED OPENING
IN METAL STUD WALL

J7
1 1/2" = 1'-0"



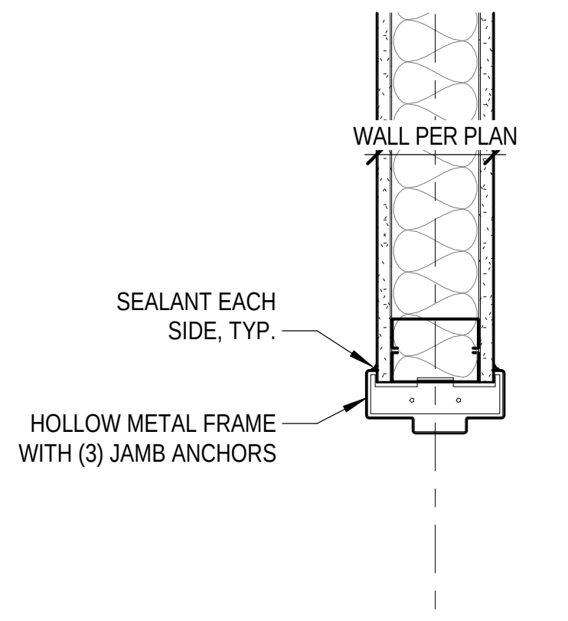
JAMB - STOREFRONT
DOOR IN CURTAIN WALL

J6
1 1/2" = 1'-0"



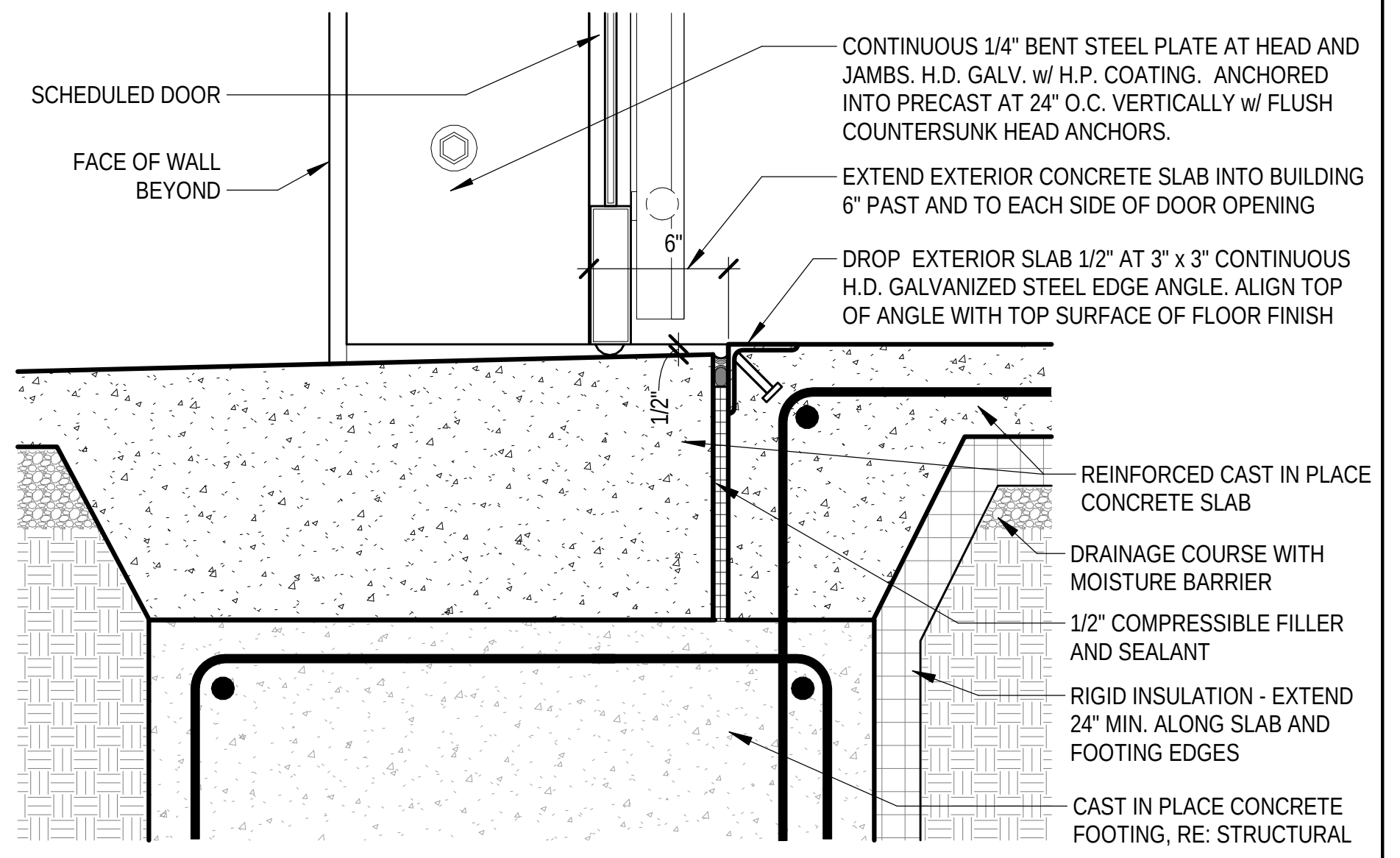
JAMB - ALUMINUM
FRAME IN STUD WALL

J5
1 1/2" = 1'-0"



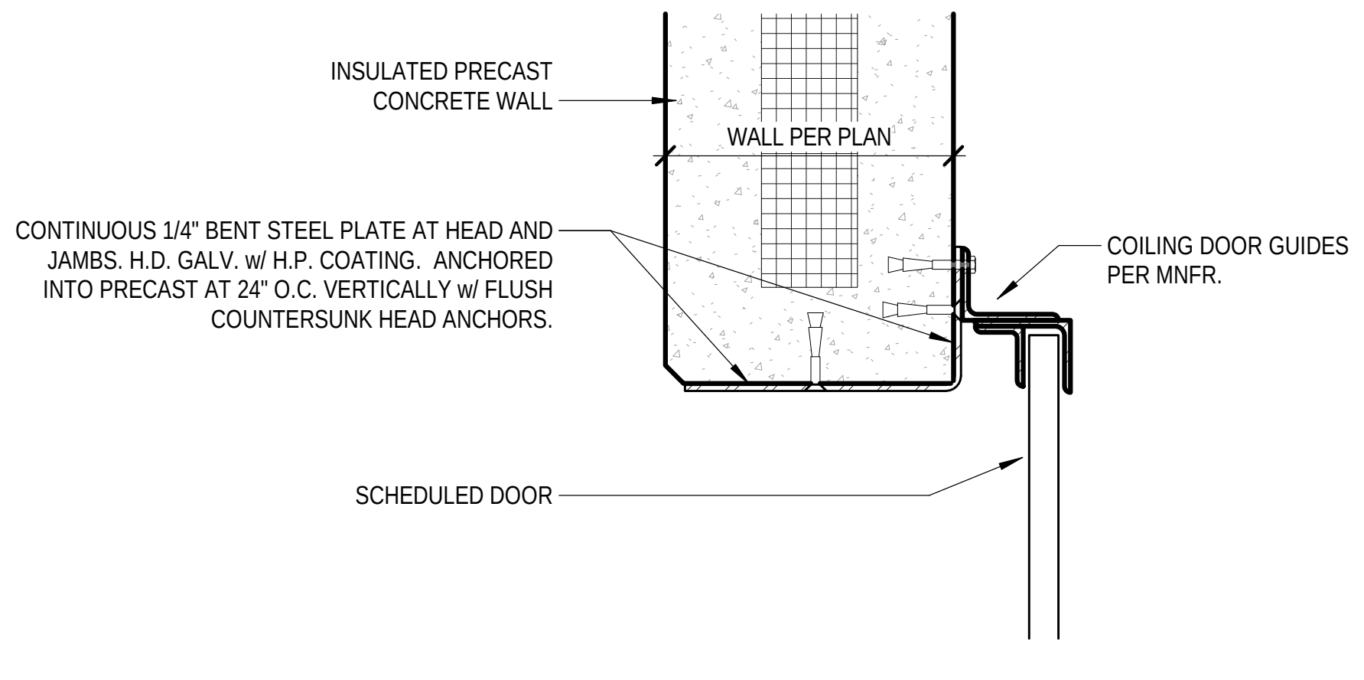
JAMB - HM FRAME IN
METAL STUD WALL

J4
1 1/2" = 1'-0"


SCHEDULED DOOR
FACE OF WALL BEYOND
CONTINUOUS 1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
EXTEND EXTERIOR CONCRETE SLAB INTO BUILDING 6" PAST AND TO EACH SIDE OF DOOR OPENING
6"
DROP EXTERIOR SLAB 1/2" AT 3" x 3" CONTINUOUS H.D. GALVANIZED STEEL EDGE ANGLE. ALIGN TOP OF ANGLE WITH TOP SURFACE OF FLOOR FINISH
1/2"
REINFORCED CAST IN PLACE CONCRETE SLAB
DRAINAGE COURSE WITH MOISTURE BARRIER
1/2" COMPRESSIBLE FILLER AND SEALANT
RIGID INSULATION - EXTEND 24" MIN. ALONG SLAB AND FOOTING EDGES
CAST IN PLACE CONCRETE FOOTING, RE: STRUCTURAL

THRESHOLD - SECTIONAL OVERHEAD DOOR
IN PRECAST WALL

T1
1 1/2" = 1'-0"


INSULATED PRECAST CONCRETE WALL
WALL PER PLAN
CONTINUOUS 1/4" BENT STEEL PLATE AT HEAD AND JAMBS. H.D. GALV. w/ H.P. COATING. ANCHORED INTO PRECAST AT 24" O.C. VERTICALLY w/ FLUSH COUNTERSUNK HEAD ANCHORS.
COILING DOOR GUIDES PER MNFR.
SCHEDULED DOOR

JAMB - OVERHEAD COILING DOOR
IN PRECAST CONCRETE WALL

J1
1 1/2" = 1'-0"

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

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Kansas City, Missouri • Omaha, Nebraska
888-756-1958
slaggie.com

CHARLES W. KELLER
A-6386
7-19-22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

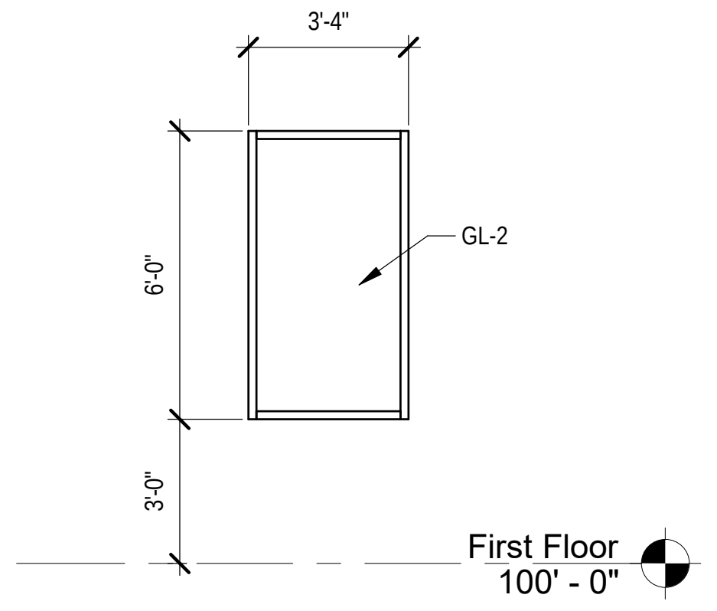
Project #: 211107

CONSTRUCTION
DOCUMENTS

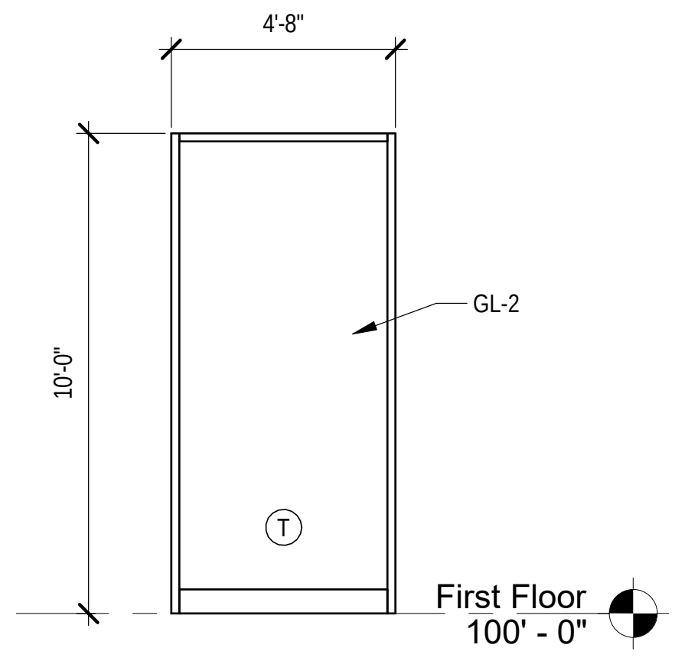
July 19, 2022

DOOR SCHEDULE &
DOOR DETAILS

A-801



SF23 TYPE A
1/4" = 1'-0"



SF22 TYPE A
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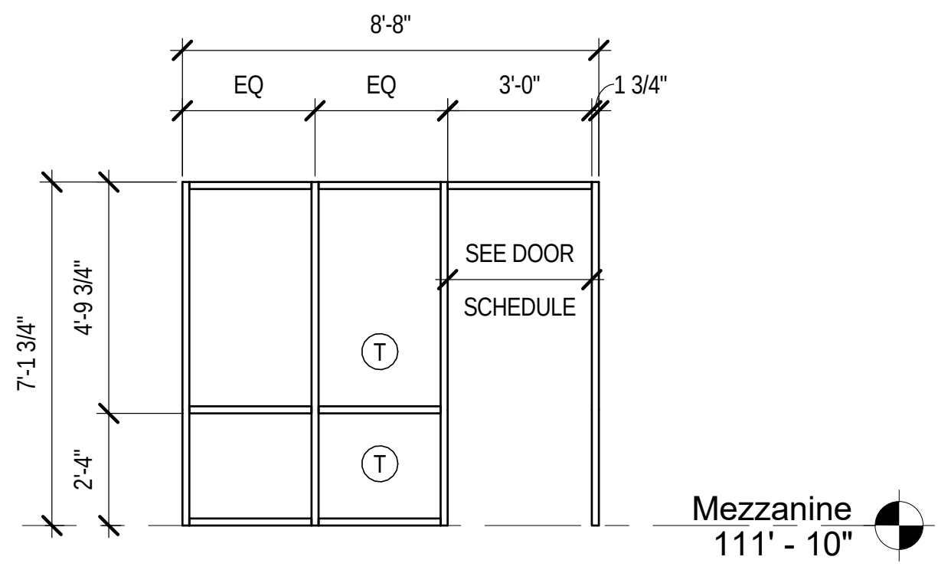
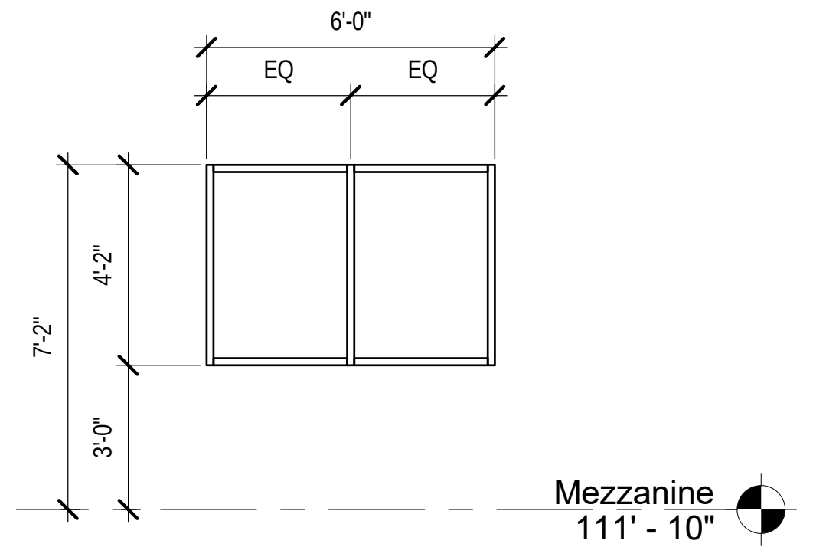
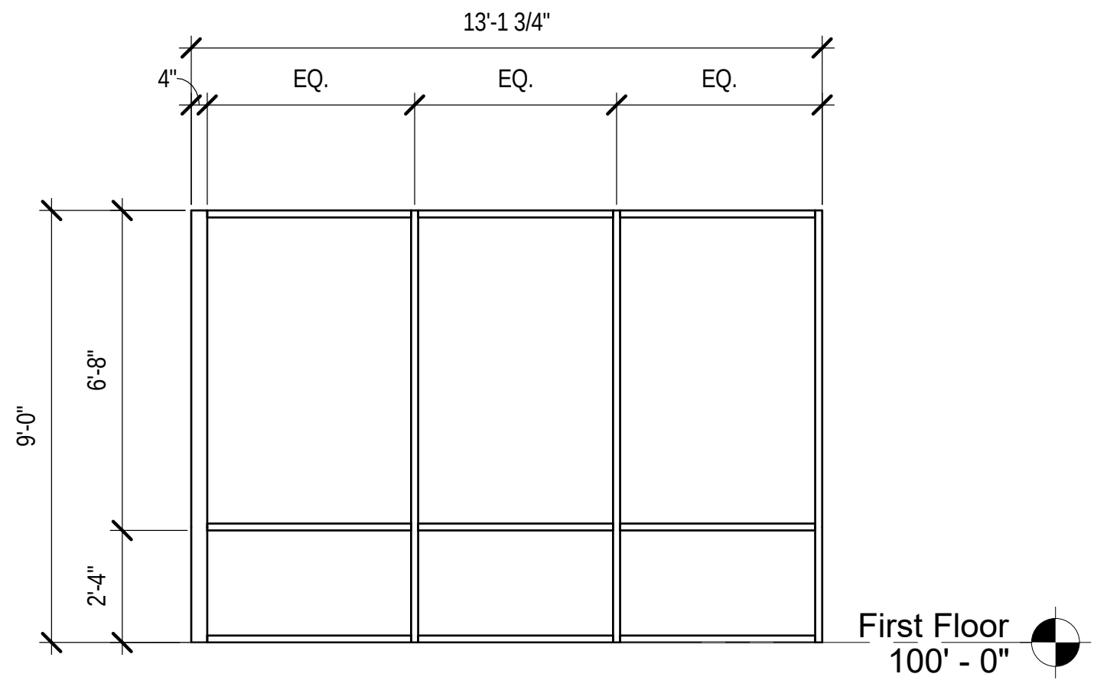


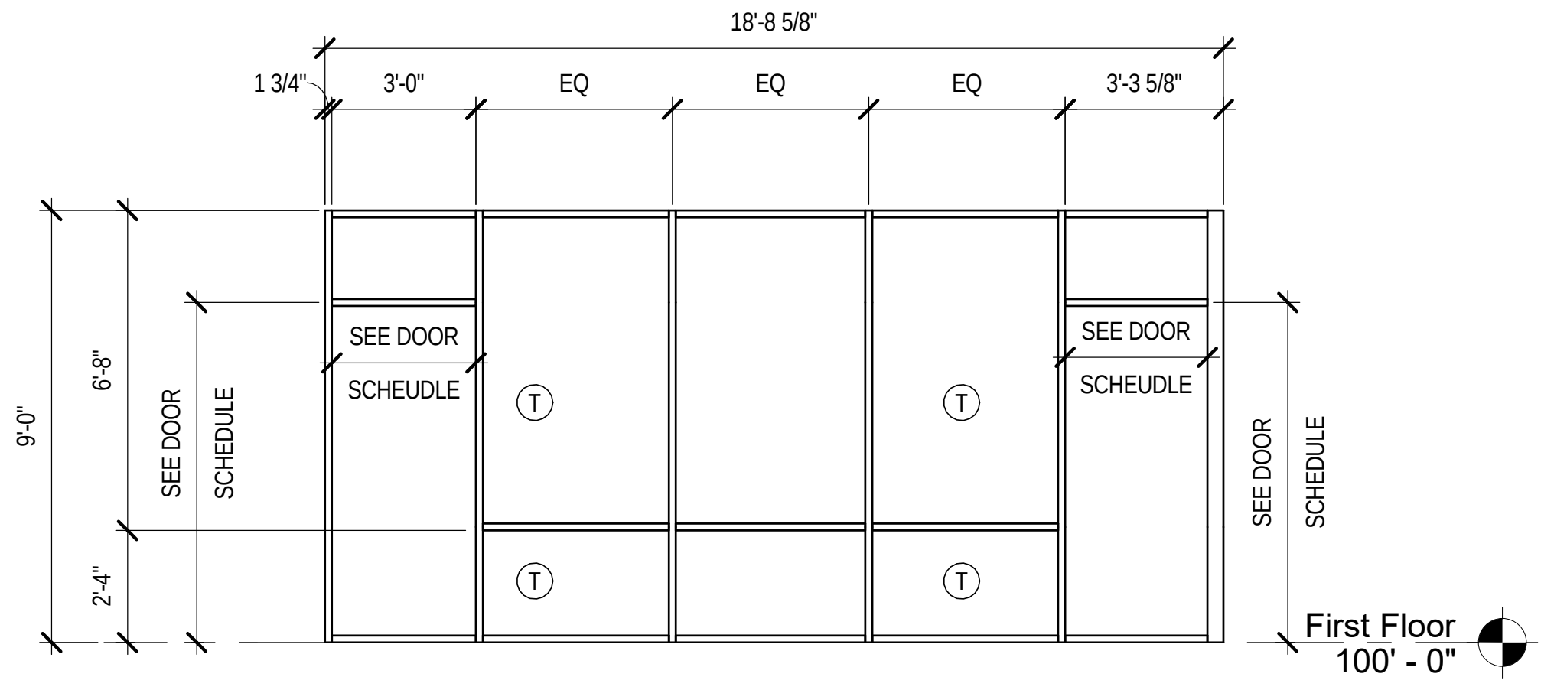
SF21 TYPE B
1/4" = 1'-0"



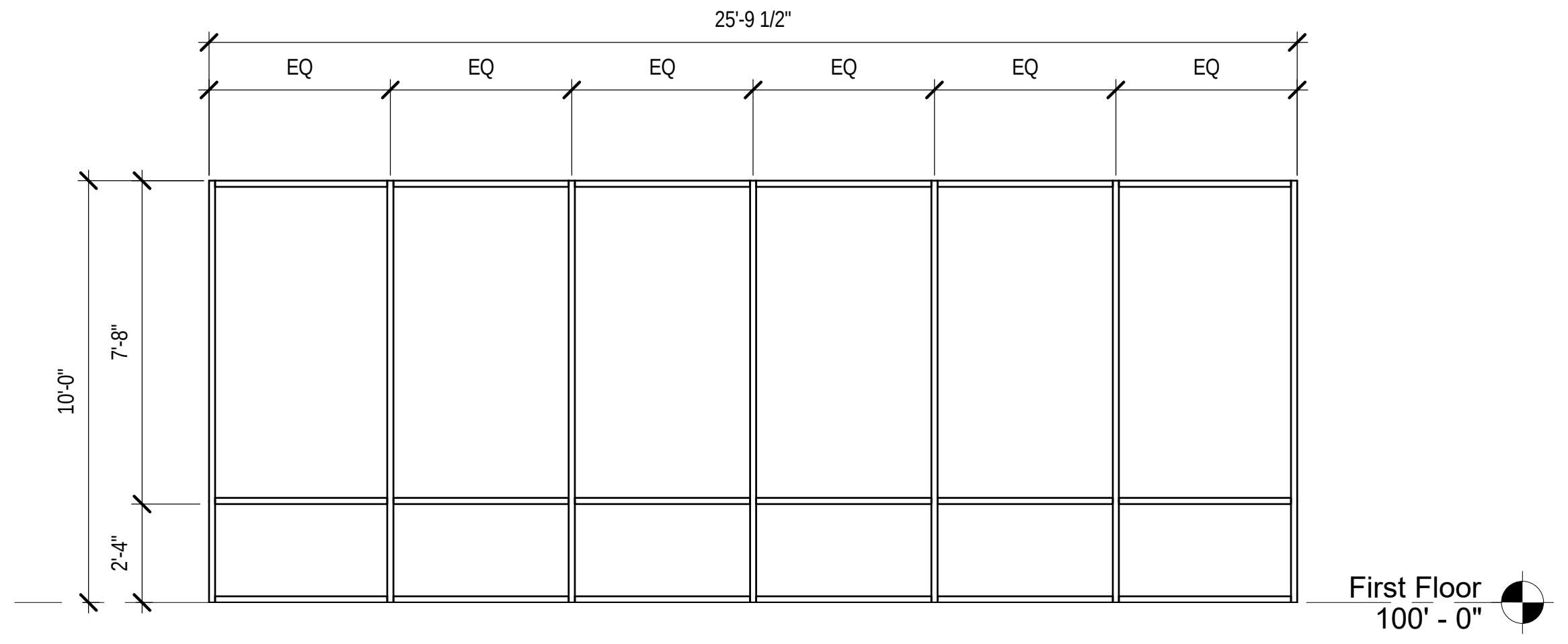
SF20 TYPE B
1/4" = 1'-0"



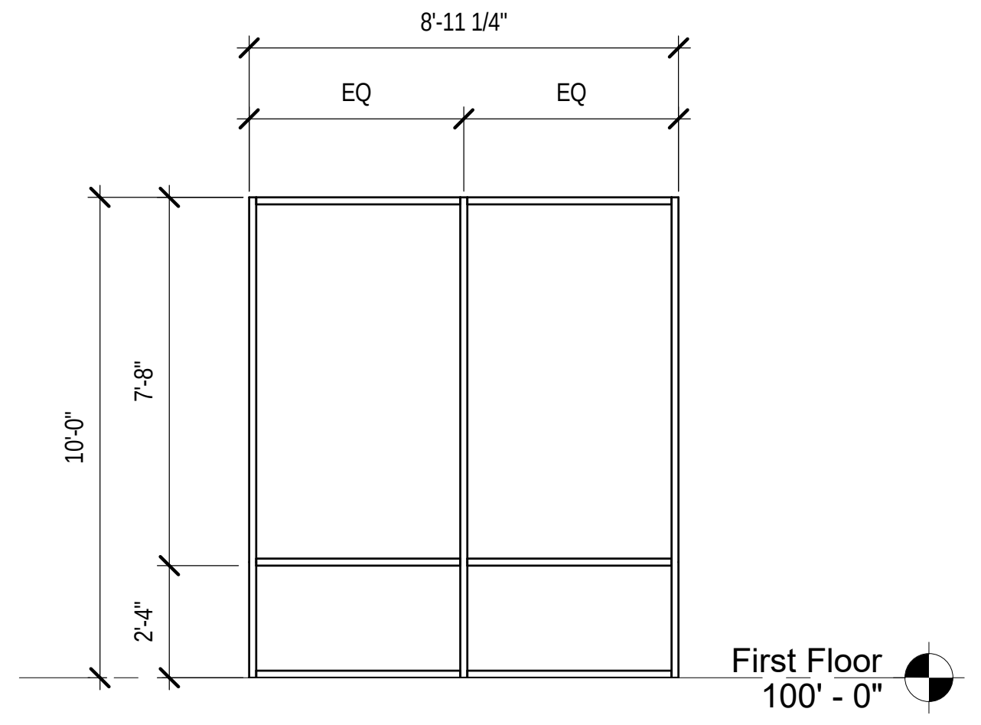
SF19 TYPE B
1/4" = 1'-0"



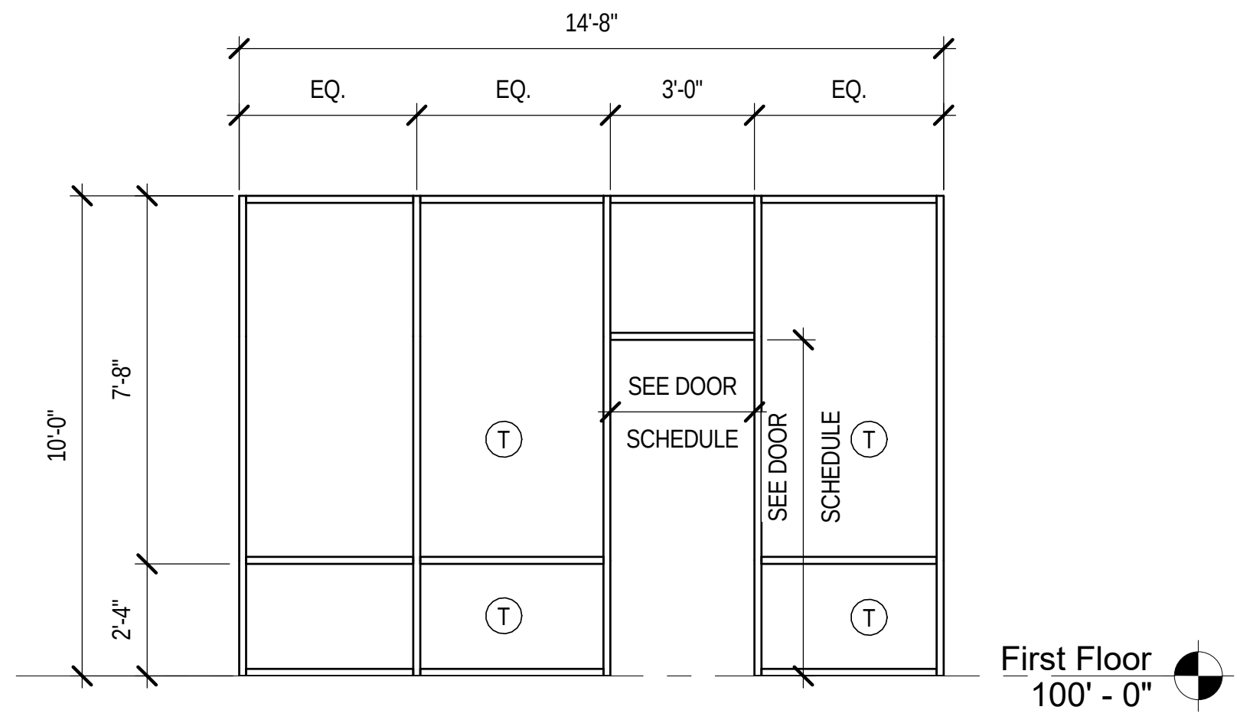
SF18 TYPE B
1/4" = 1'-0"



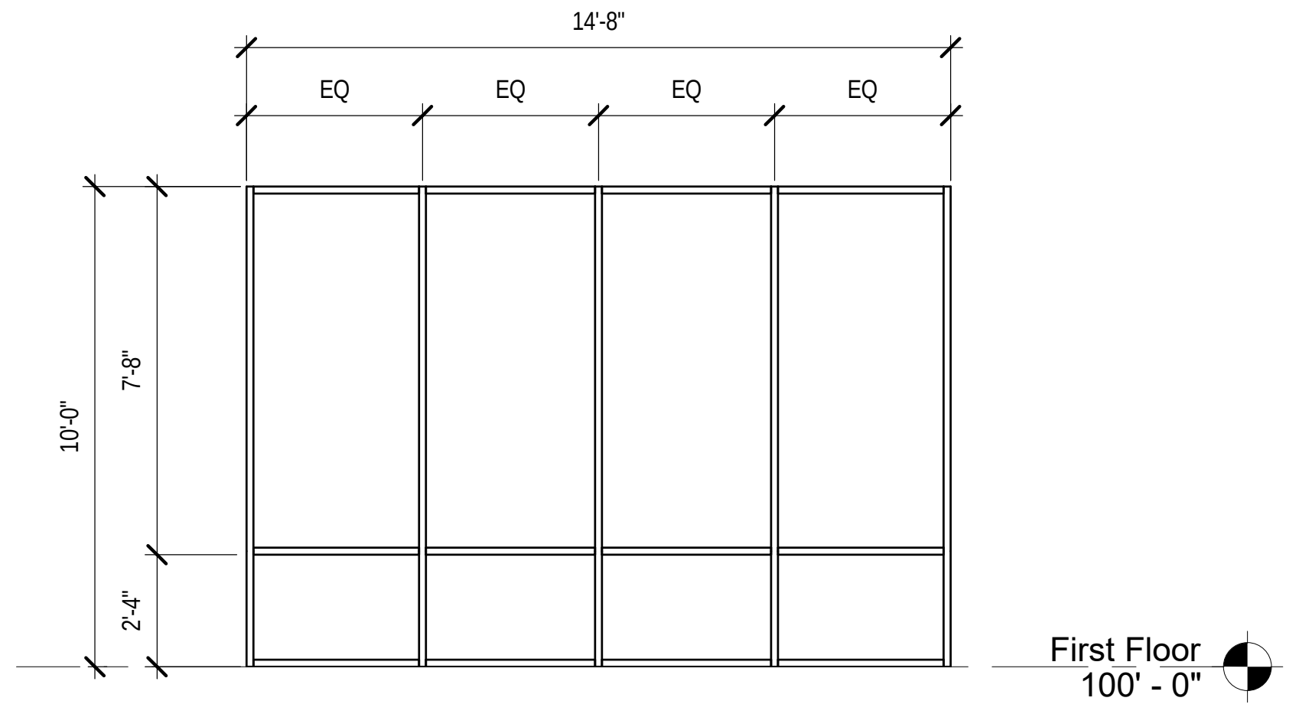
SF17 TYPE B
1/4" = 1'-0"



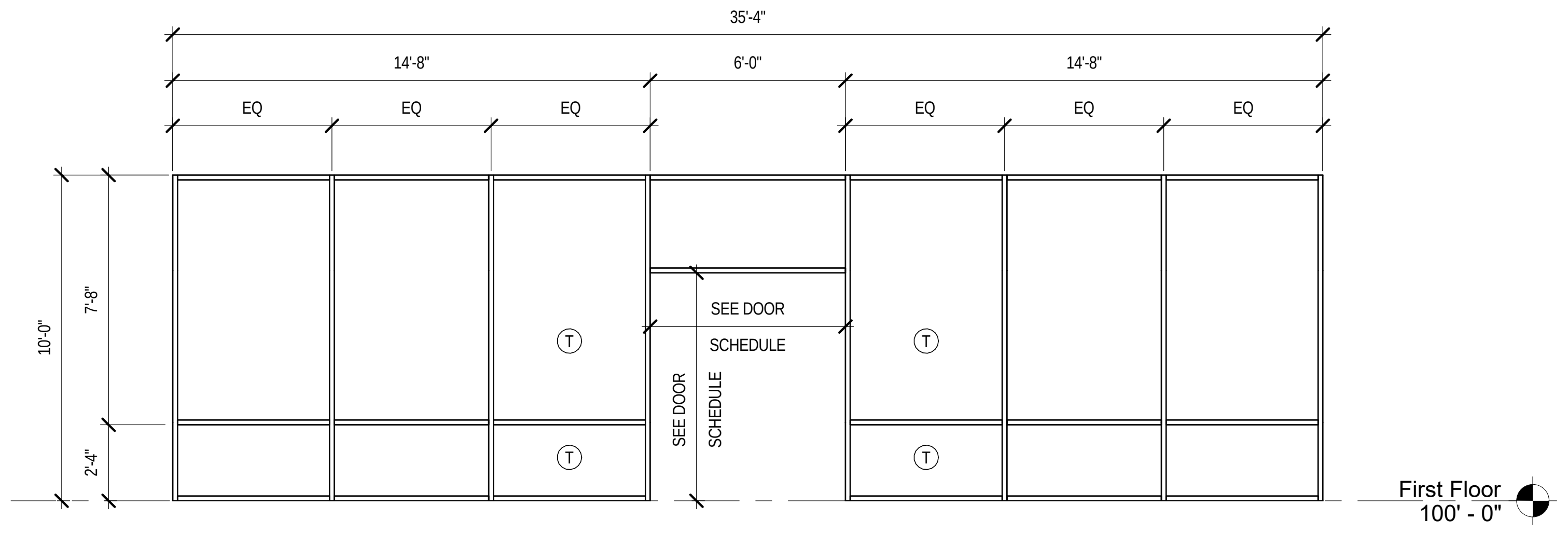
SF16 TYPE B
1/4" = 1'-0"



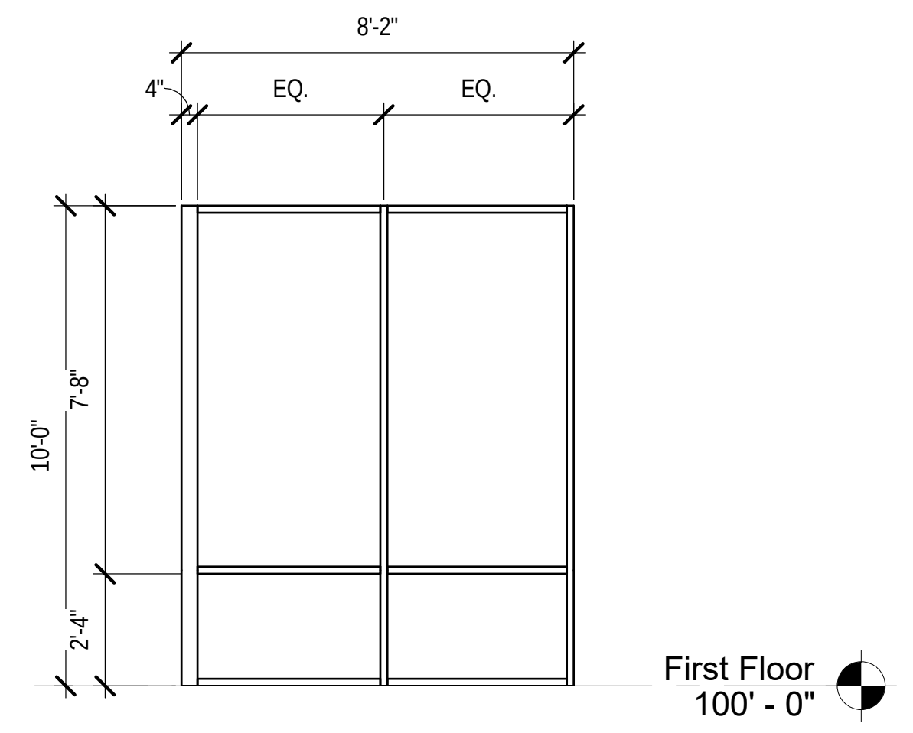
SF15 TYPE B
1/4" = 1'-0"



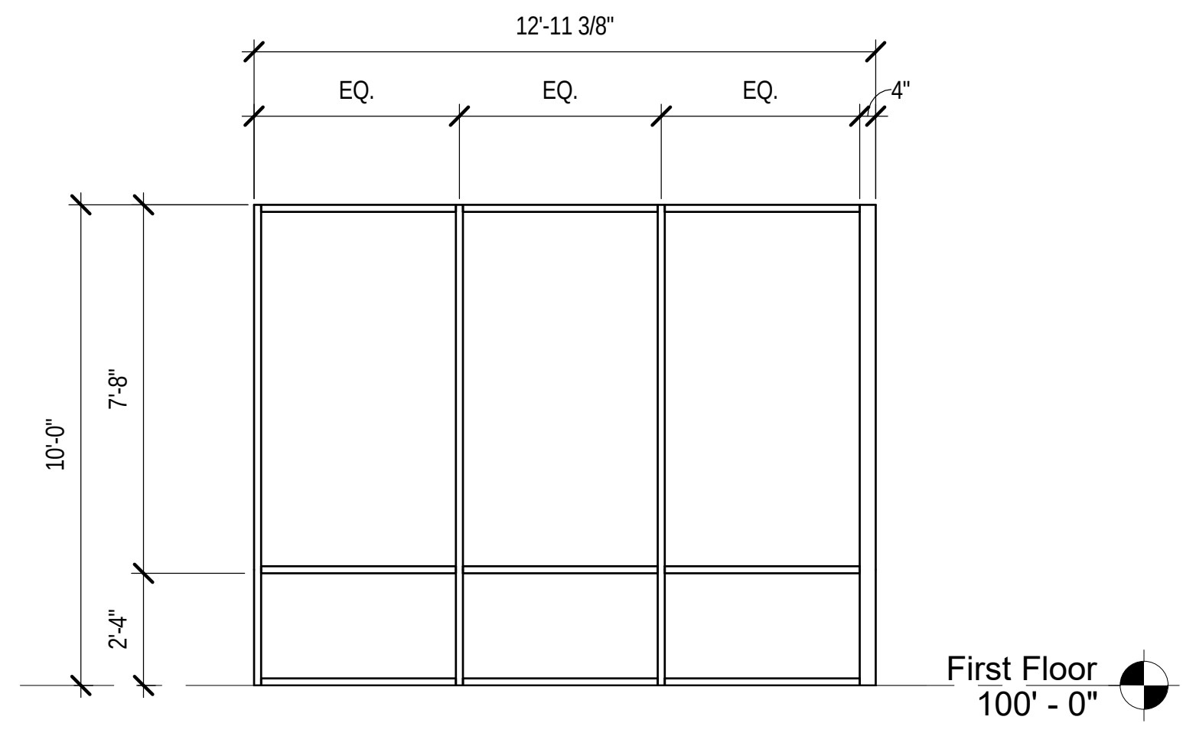
SF14 TYPE B
1/4" = 1'-0"



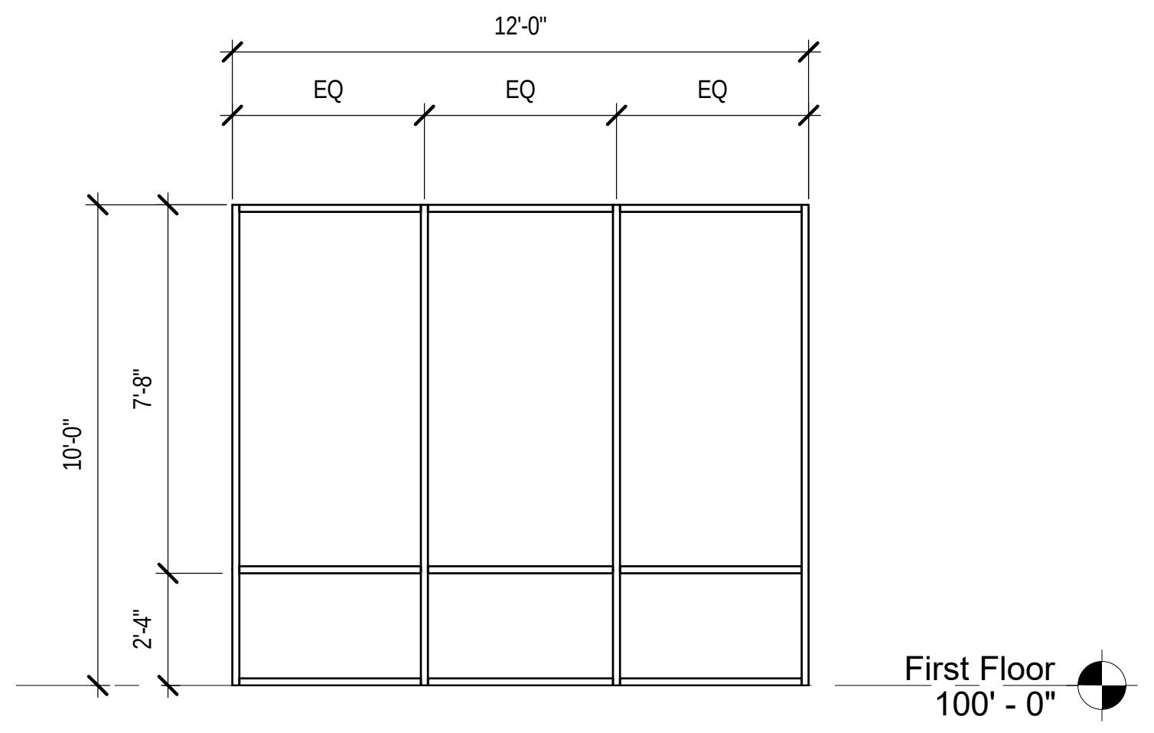
SF13 TYPE B
1/4" = 1'-0"



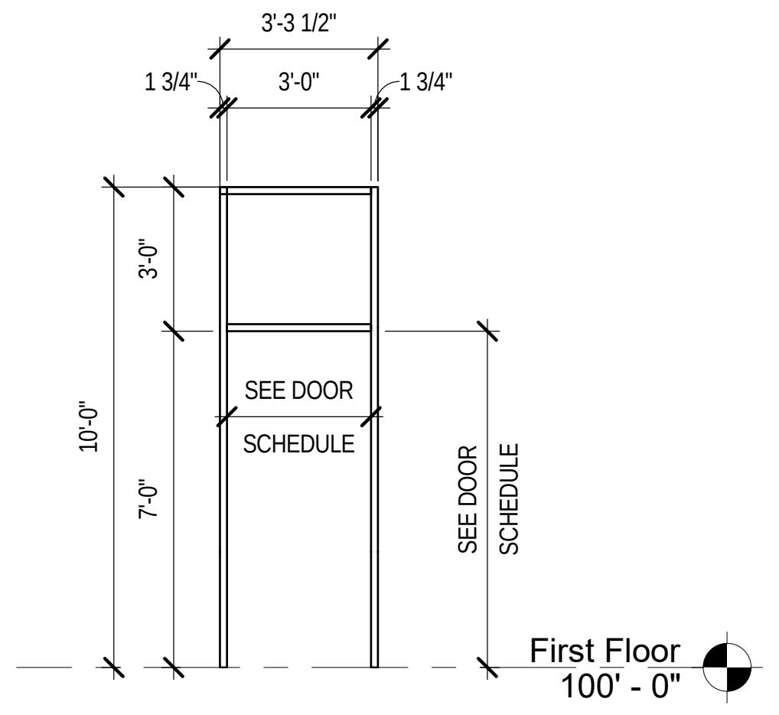
SF12 TYPE B
1/4" = 1'-0"



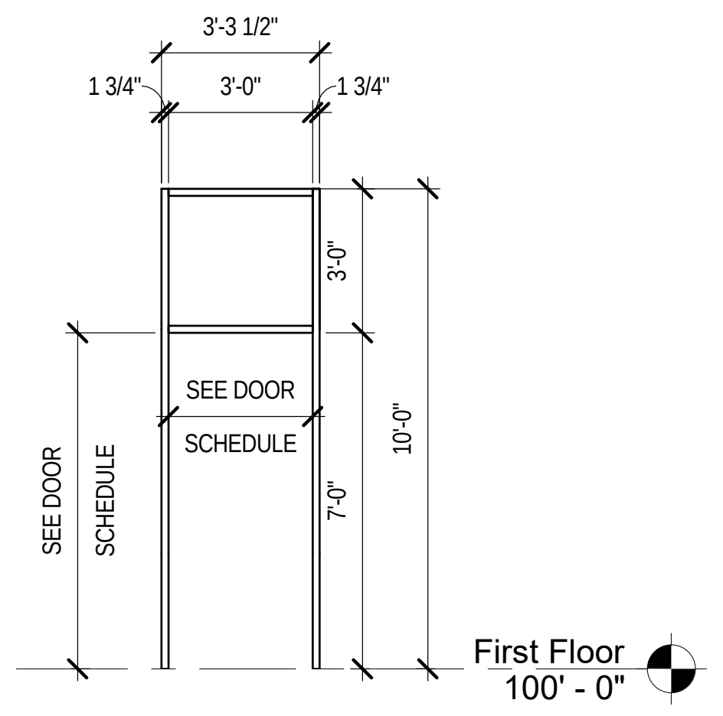
SF11 TYPE B
1/4" = 1'-0"



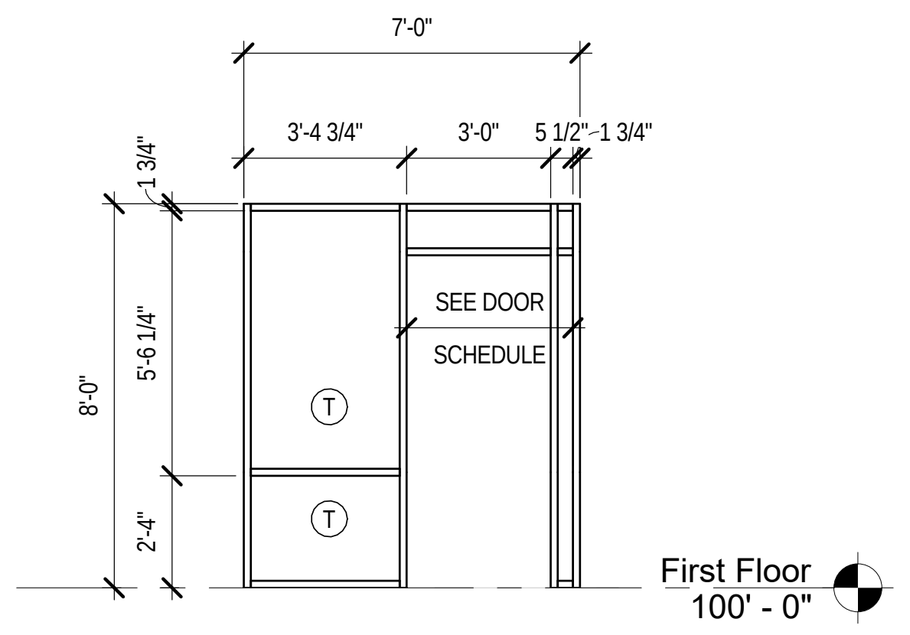
SF10 TYPE B
1/4" = 1'-0"



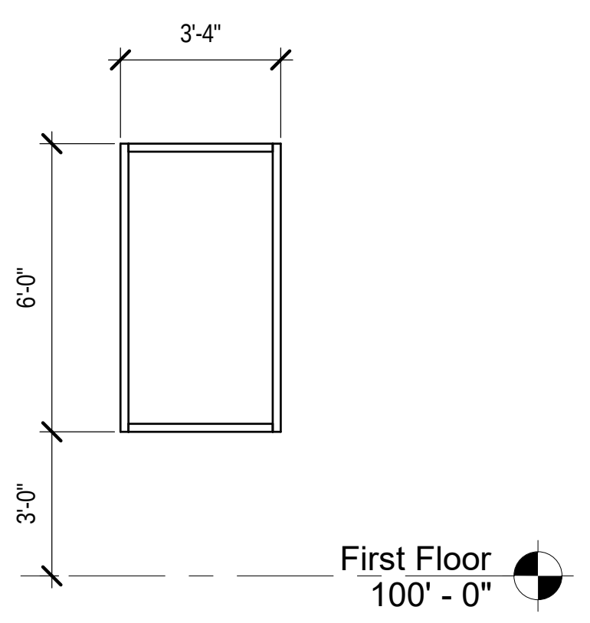
SF09 TYPE B
1/4" = 1'-0"



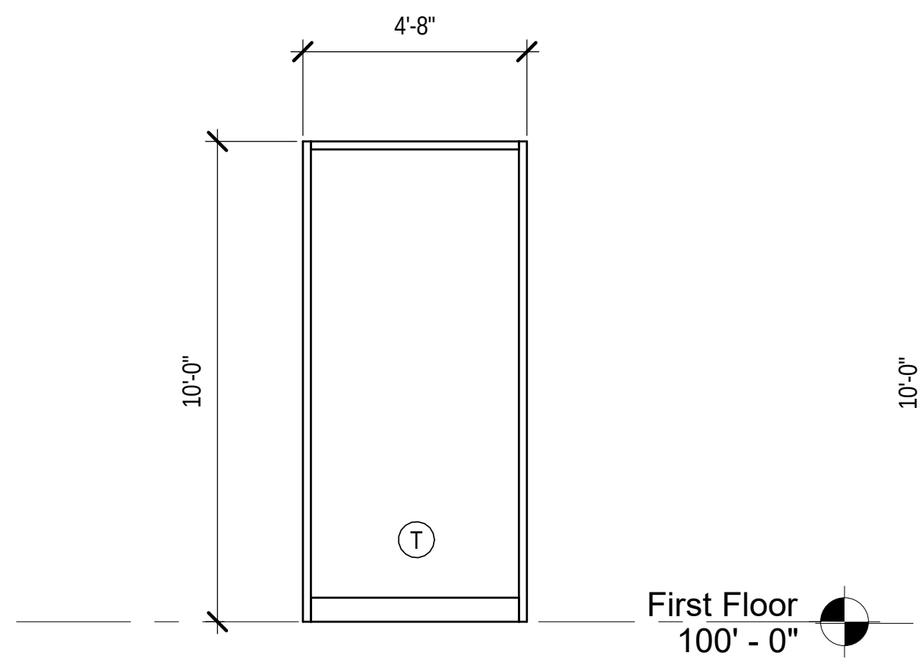
SF08 TYPE B
1/4" = 1'-0"



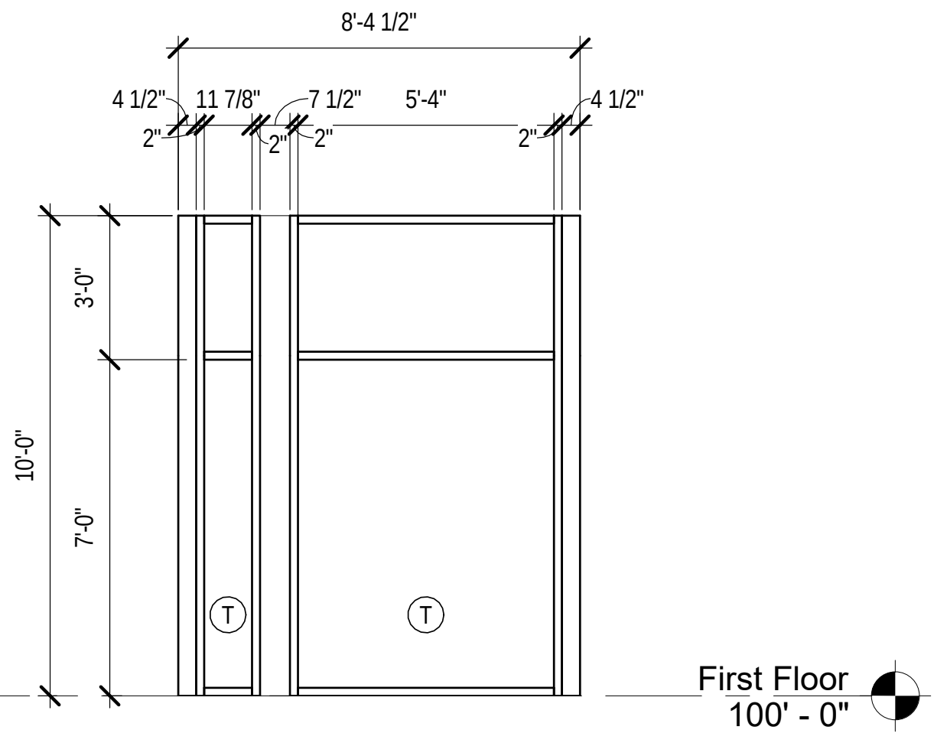
SF07 TYPE B
1/4" = 1'-0"



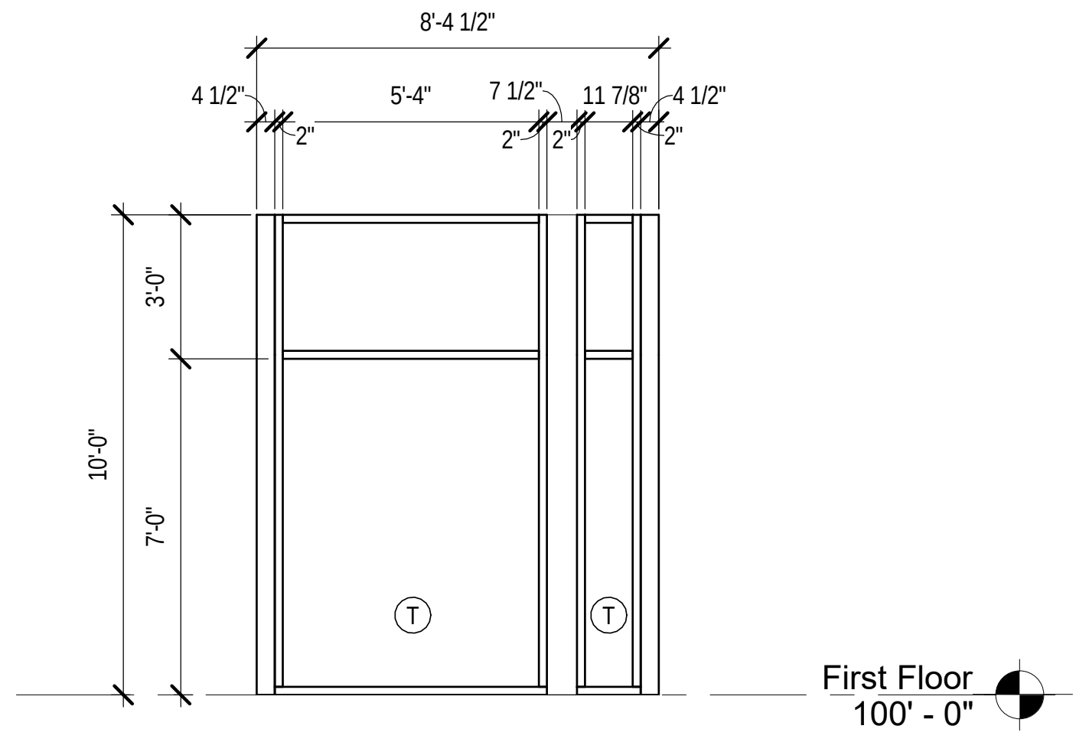
SF06 TYPE A
1/4" = 1'-0"



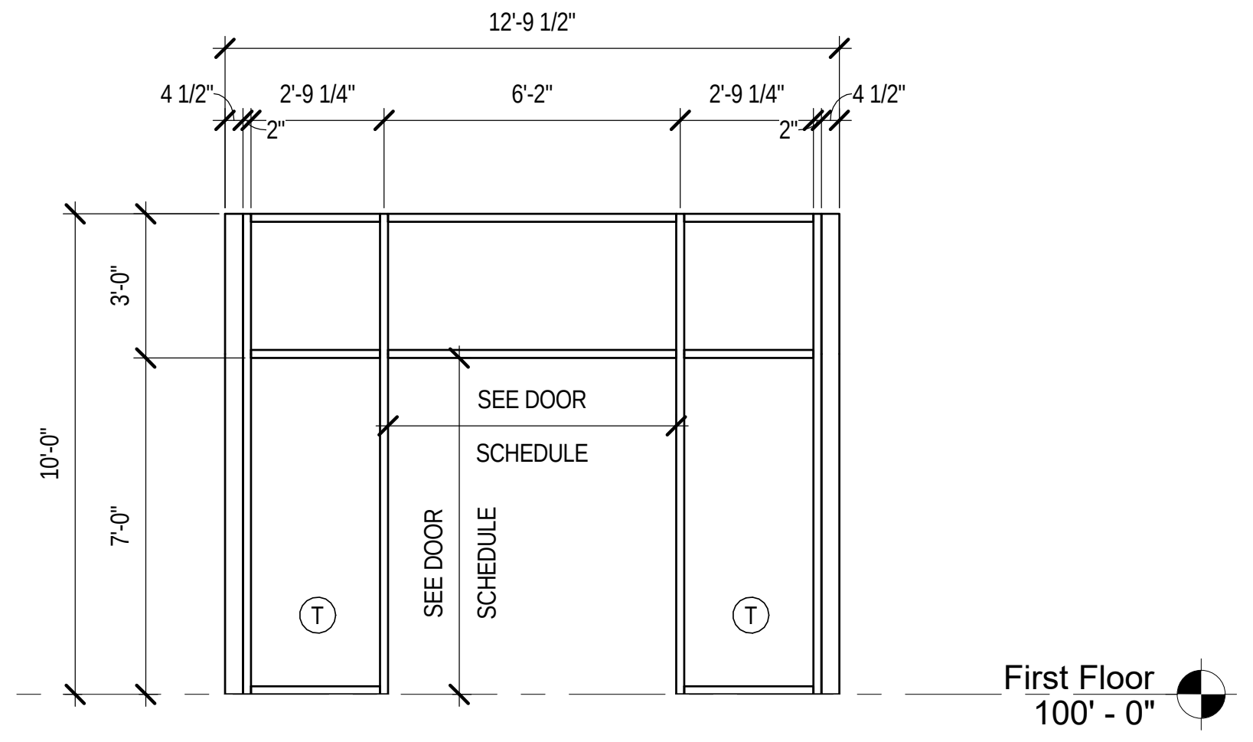
SF05 TYPE A
1/4" = 1'-0"



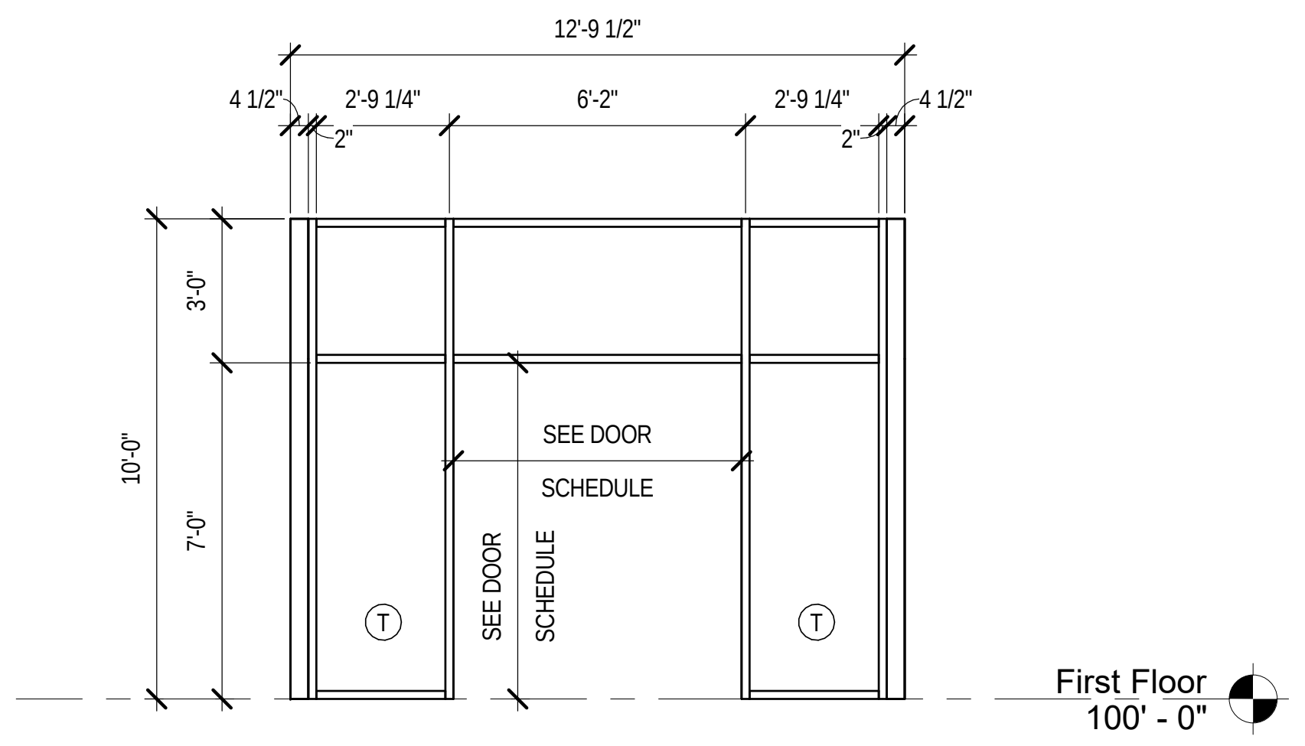
SF04 TYPE A
1/4" = 1'-0"



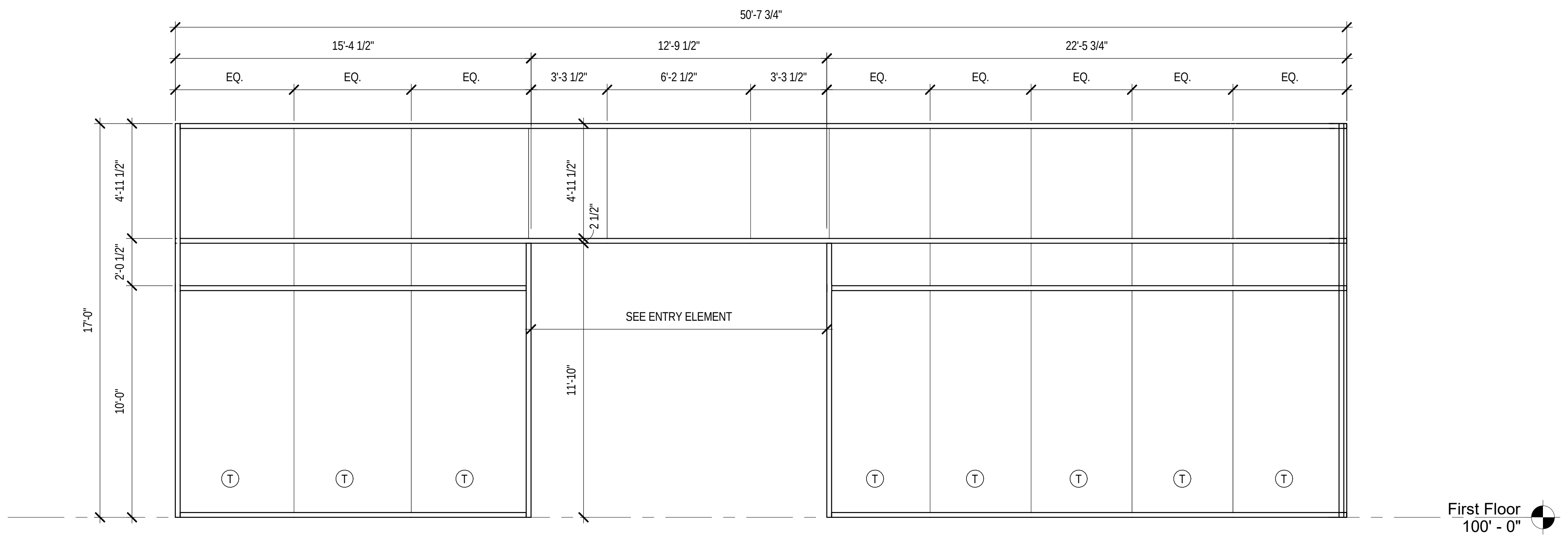
SF03 TYPE A
1/4" = 1'-0"



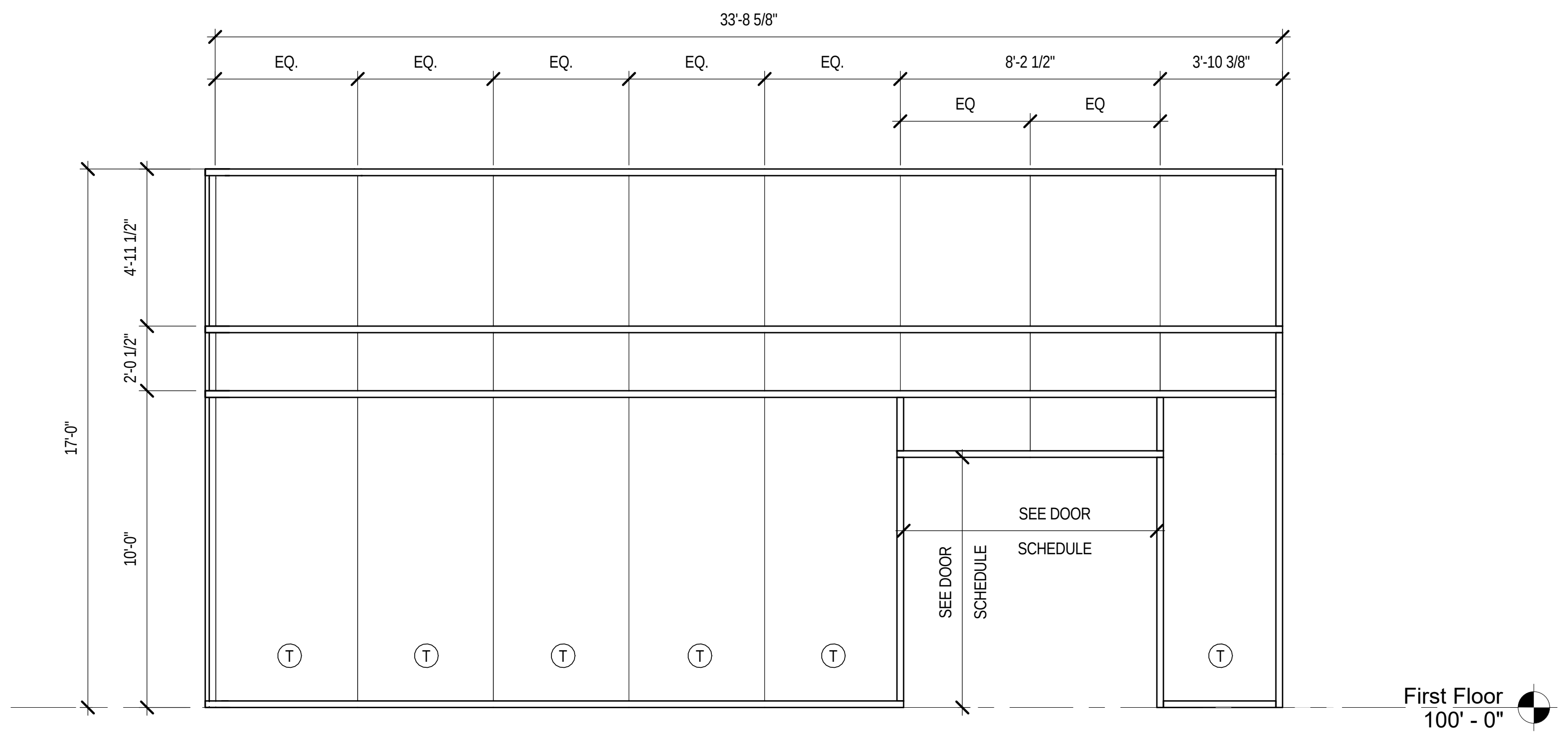
SF02 TYPE A
1/4" = 1'-0"



SF01 TYPE A
1/4" = 1'-0"



CW02
1/4" = 1'-0"



CW01
1/4" = 1'-0"

FRAME TYPES

CURTAINWALL (CW##)

KAWNEER 1600 SYSTEM 2
2 1/2" X 7 1/2" FRAME DIMENSION
PER PLAN FOR LOCATION
FINISH: CLEAR ANODIZED (BOTH SIDES)
ELEVATIONS
GLASS TYPE: GL-1

ALUMINUM STOREFRONT (SF##)

EXTERIOR FRAMES (**TYPE A**):
KAWNEER TRIFAB VERSAGLAZE 451-T
2" X 4 1/2" FRAME DIMENSION
CENTER GLAZED
FINISH: CLEAR ANODIZED
GLASS TYPE: GL-1, U.N.O.
SEE ELEVATIONS FOR LOCATION

INTERIOR FRAMES (**TYPE B**):
KAWNEER TRIFAB VERSAGLAZE 450
1 3/4" X 4 1/2" FRAME DIMENSION
CENTER GLAZED
FINISH: CLEAR ANODIZED (BOTH SIDES)
GLASS TYPE: GL-3 U.N.O.

GLASS TYPES:

GL-1: 1" CLEAR, INSULATED, LOW-E GLAZING
MANUFACTURER: AGC ENERGY SELECT 40
FULLY TEMPERED WHERE NOTED ON FRAME ELEVATIONS

GL-2: 1" TRANSLUCENT, INSULATED, LOW-E GLASS
FULLY TEMPERED WHERE NOTED ON FRAME ELEVATIONS

GL-3: 1/4" CLEAR, MONOLITHIC VISION GLASS, FULLY TEMPERED WHERE NOTED ON FRAME ELEVATIONS

GENERAL NOTES:

1. PROVIDE TEMPERED SAFETY GLASS PER IBC SECTION 2406.4 AND AS SHOWN. Ⓣ

2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALL GLASS TYPES.

3. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.

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As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

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CHARLES W. KELLER
A-6386
7.19.22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

WINDOW SCHEDULE

A-802

CONDUIT AND WIRE

	ARROWS INDICATE CONDUIT AND WIRE HOME RUN(S) TO PANEL WITH 2-#12 AWG CONDUCTORS UNLESS NOTED OR OTHERWISE REQUIRED.
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
—T—	TELEPHONE CONDUIT
—LV—	LOW VOLTAGE CONDUIT AND WIRING

LIGHTING

	BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)
	BATTERY OPERATED EMERGENCY LIGHT (CEILING MOUNTED)
○	SURFACE/RECESSED LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE
	FLUORESCENT STRIP FIXTURE
	SHADING DENOTES EMERGENCY FIXTURE
■●■	POLE MOUNTED LIGHT FIXTURE
	EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
	EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN
$\$ \; \$^{3} \; \$^{4} \; \$^{K} \; \$^{LV} \; \$$	LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, LOW VOLTAGE, PILOT LIGHT
$\$^{D}$	DIMMER WITH SINGLE POLE SWITCH
$\$^{D3}$	DIMMER WITH THREE WAY SWITCH (WATTAGE NOTED)
$\$^{M}$	WALL MOUNTED MOTION SENSOR
(A)	CEILING MOUNTED MOTION SENSOR (LETTER DENOTES TYPE)
	SWITCH AND DUPLEX RECEPTACLE
	DENOTES A WALL MOUNTED FIXTURE

WIRING DEVICES

	DUPLEX RECEPTACLE.
	LINE THRU DEVICE INDICATES ABOVE COUNTER
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)
S	DUPLEX RECEPTACLE - TOP HALF SWITCHED - BOTTOM HALF TO HAVE POWER AT ALL TIMES
EM	DUPLEX RECEPTACLE ON EMERGENCY POWER (SINGLE AND FOURPLEX SIMILAR)
	FOURPLEX RECEPTACLE
	SINGLE RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	MULTI-SERVICE FLOOR BOX
	DIVIDED POWER POLE
	FLOOR BOX W/DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE W/NEMA CONFIGURATION AS NOTED
©	CLOCK RECEPTACLE
	MULTI-OUTLET ASSEMBLY

COMMUNICATIONS

◀	TELEPHONE OUTLET
	LINE THRU DEVICE INDICATES ABOVE COUNTER
◁	DATA OUTLET
	TELEPHONE/DATA OUTLET
	FLOOR BOX WITH COMMUNICATIONS OUTLET
TV	TELEVISION ANTENNA OUTLET
	TELEPHONE CABINET OR PLYWOOD BOARD

SECURITY

	CLOSED CIRCUIT TV CAMERA
CR	CARD READER
DL	DOOR LOCK
M	SECURITY MONITOR
WT	WATCH TOUR
EDL	ELECTRIC DOOR LOCK
S	MOTION SENSOR - SECURITY
S	MOTION SENSOR (WALL MOUNTED) - SECURITY

PUBLIC ADDRESS

M	MICROPHONE OUTLET
S_H	SPEAKER. ('H' DENOTES HORN TYPE)
V	SPEAKER VOLUME CONTROL
	SPEAKER CONDUIT AND WIRING
PA	PUBLIC ADDRESS AMPLIFIER AND CABINET
	BUZZER
B	BELL
I	INTERCOM OUTLET
I_M	INTERCOM OUTLET - MASTER
C_D	CLOCK SYSTEM RECEPTACLE WITH SINGLE FACE ('D' DENOTES DOUBLE FACE)

POWER DEVICE AND CONTROLS

T	THERMOSTAT
	DISCONNECT SWITCH. 30A-3P, NON-FUSED EXCEPT AS NOTED
⊞	MANUAL MOTOR STARTER
⊠	MAGNETIC MOTOR STARTER
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
	MOTOR
	PANELBOARD (SEE ONE-LINE)
	DISTRIBUTION PANELBOARD
	CONTACTOR
	AUTOMATIC TRANSFER SWITCH
PC	PHOTOCELL
J	JUNCTION BOX
	PUSHBUTTON
T	TRANSFORMER

FIRE ALARM

F	MANUAL PULL STATION
PE_D	PHOTOELECTRIC DETECTOR ('D' DENOTES IN DUCT) ('B' DENOTES BEAM-TYPE) ('R' DENOTES IN RETURN AIR PLENUM)
ION^{U}_{D}	IONIZATION DETECTOR ('D' DENOTES IN DUCT) ('P' DENOTES PLENUM-TYPE)
INF_D	INFRARED DETECTOR ('D' DENOTES IN DUCT)
H^{190}_{D}	THERMODETECTOR ('D' DENOTES IN DUCT) FIXED TEMPERATURE AS NOTED
DH	DOOR HOLDER
C	CHIME
F	BELL
FL	FIRE ALARM STROBE LIGHT
F_L	FIRE ALARM SPEAKER - ARROWS DENOTE PROJECTORS IF ANY. ('L' DENOTES COMBINATION SPEAKER AND VISUAL FIRE LIGHT)
L	FIRE HORN. ('L' DENOTES COMBINATION HORN AND VISUAL FIRE LIGHT)
RL	REMOTE ALARM LAMP
PI	POST INDICATOR SWITCH
FS	FLOW SWITCH
GS	GATE SWITCH
F	FIREMAN'S PHONE JACK

FIRE PROTECTION

—FP—	FIRE PROTECTION PIPING
FHC	FIRE HOSE CABINET
FDV	FIRE DEPARTMENT VALVE
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER
	RECESSED SPRINKLER
	RECESSED SPRINKLER WITH CLOSURE PLATE
	SIDEWALL SPRINKLER.
	DOUBLE CHECK DETECTOR BACKFLOW PREVENTER
	FIRE PROTECTION SIAMESE CONNECTION
	FIRE PROTECTION SIDEWALK SIAMESE CONNECTION
	POST INDICATOR VALVE

MEDICAL GAS

—VAC—	MEDICAL VACUUM
—OX—	OXYGEN
—NO—	NITROUS OXIDE
—MA—	MEDICAL COMPRESSED AIR
—N—	NITROGEN
X	OXYGEN OUTLET
V	VACUUM OUTLET
A	MEDICAL AIR OUTLET
NO	NITROUS OXIDE OUTLET
N	NITROGEN OUTLET

HVAC

—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—CHWS—	CHILLED/HOT WATER SUPPLY
—CHWR—	CHILLED/HOT WATER RETURN
—HWS—	HEATING HOT WATER SUPPLY
—HWR—	HEATING HOT WATER RETURN
—CTS—	COOLING TOWER SUPPLY
—CTR—	COOLING TOWER RETURN
—STM—	LOW PRESSURE STEAM
—RTN—	LOW PRESSURE CONDENSATE RETURN
—STM-50—	HIGH PRESSURE STEAM - NO'S GIVE GAUGE PRESSURE IN P.S.I.
--RTN-50--	HIGH PRESSURE RETURN - NO'S GIVE GAUGE PRESSURE IN P.S.I.
—RD—	REFRIGERANT DISCHARGE
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—FOS—	FUEL OIL SUPPLY
—FOR—	FUEL OIL RETURN
—A—	COMPRESSED AIR
—D—	DRAIN (CONDENSATE)
T_S	THERMOSTAT - ('S' DENOTES SENSOR)
H_S	HUMIDISTAT - ('S' DENOTES SENSOR)
TH	THERMOSTAT/HUMIDITY SENSOR
CO2	CARBON DIOXIDE SENSOR
THC	THERMOSTAT/HUMIDITY SENSOR/CO2 SENSOR
	HUMIDIFIER
	SUPPLY AIR FLOW INDICATOR
	RETURN AND EXHAUST AIR FLOW INDICATOR
	SUPPLY DIFFUSER
	SUPPLY STRIP DIFFUSER
	RETURN GRILLE OR EXHAUST REGISTER

HOSPITAL

—N—	NURSE CALL CONDUIT AND WIRING
—M—	MONITOR CONDUIT AND WIRING
NMS	NURSE CALL MASTER STATION
N	NURSE CALL BEDSIDE STATION - SINGLE PATIENT
N_2	NURSE CALL BEDSIDE STATION - DOUBLE PATIENT
E_P	EMERGENCY PUSHBUTTON STATION ('P' DENOTES PULL CORD)
DS	DUTY STATION
SS	STAFF STATION
B	DOME LIGHT - CEILING MOUNTED ('B' DENOTES WITH BUZZER)
B	DOME LIGHT - WALL MOUNTED ('B' DENOTES WITH BUZZER)
Z	ZONE DOME LIGHT
B	CODE BLUE PUSHBUTTON

PLUMBING

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	RECIRCULATING DOMESTIC HOT WATER
—TW—	DOMESTIC TEMPERED WATER
—+—	SOFT DOMESTIC COLD WATER
—++—	SOFT DOMESTIC HOT WATER
—+++—	SOFT RECIRCULATING HOT WATER
—SAN—	SOIL OR WASTE ABOVE GRADE OR FLOOR
--SAN--	SOIL OR WASTE BELOW GRADE OR FLOOR
—ST—	STORM ABOVE GRADE OR FLOOR
--ST--	STORM BELOW GRADE OR FLOOR
—ST/O—	STORM OVERFLOW ABOVE GRADE OR FLOOR
--ST/O--	STORM OVERFLOW BELOW GRADE OR FLOOR
---V---	PLUMBING VENT
—G—	GAS (NATURAL)
—LP—	LIQUIFIED PETROLEUM
—PD—	PUMP DISCHARGE
HB	HOSE BIBB
WH	WALL HYDRANT
WCO	WALL CLEAN OUT
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
	FLOOR DRAIN, AREA DRAIN, FLOOR SINK
RD ORD	ROOF DRAIN, OVERFLOW ROOF DRAIN
	SHOWER HEAD.
	REDUCED PRESSURE BACKFLOW PREVENTER
P #	PLUMBING VENT RISER CALL-OUT NUMBER

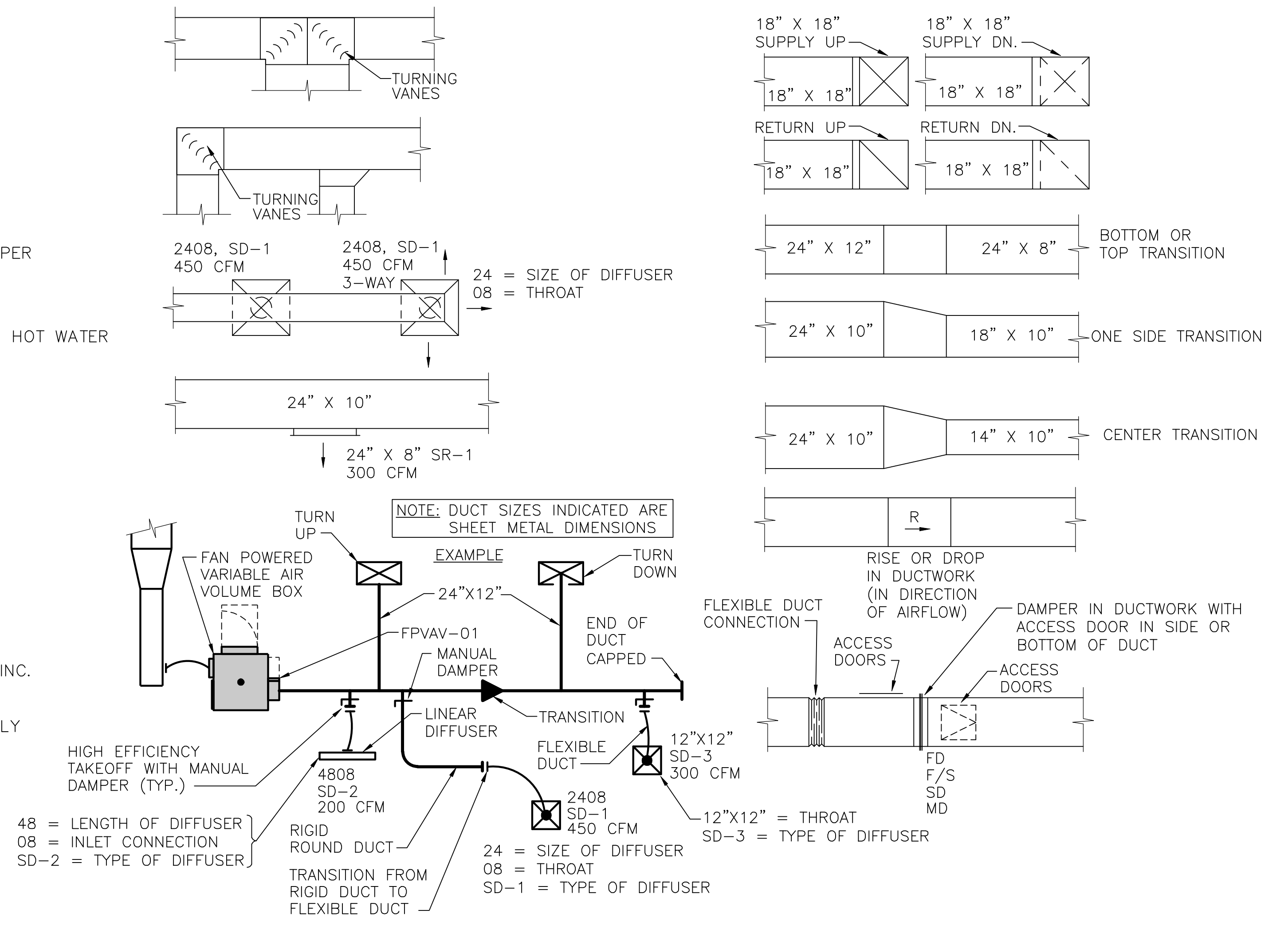
GENERAL

①	MECHANICAL NOTE REFERENCE
2	ELECTRICAL NOTE REFERENCE
3	DEMOLITION NOTE REFERENCE
4	REVISION NOTE REFERENCE
	CONNECT TO EXISTING WORK
I MI	DETAIL REFERENCE - NO./SHEET NO.
A M1	SECTION CUT - SECTION/SHEET NO.

PIPING

	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	CAP
	UNION
	REDUCER (OR INCREASER)
	PIPE FLEX
	STRAINER
R	RISE IN PIPING
D	DROP IN PIPING
	GUIDE
	ANCHOR
	PRESSURE GAUGE WITH GAUGE COCK
T	TEMPERATURE GAUGE
	FLOW INDICATOR
	THERMOMETER.
	SITE GLASS
	EXPANSION JOINT
FD	FILTER-DRIER
	DRIP ASSEMBLY
	BASKET STRAINER
	SHUTOFF VALVE
	SHUTOFF VALVE IN RISER
	BALANCING VALVE
	CALIBRATED BALANCING VALVE
	RELIEF VALVE
	TEST PLUG
	TRIPLE DUTY VALVE
	CHECK VALVE.
	AUTOMATIC CONTROL VALVE (2-WAY)
	AUTOMATIC CONTROL VALVE (3-WAY)
	AUTO FLOW CONTROL VALVE
S	SOLENOID VALVE
P	PRESSURE REDUCING VALVE

DUCTWORK



A	AMPS, AIR (COMPRESSED)	DX	DIRECT EXPANSION	HTG	HEATING	MUAF	MAKE UP AIR FAN	SD	SUPPLY DIFFUSER, SMOKE DAMPER
A/C	AIR CONDITIONING	EA	EXHAUST AIR	HTR	HEATER	MV	MIXING VALVE	SDCW	SOFT DOMESTIC COLD WATER
AD	AREA DRAIN, ACCESS DOOR	EAT	ENTERING AIR TEMPERATURE	HVU	HEATING AND VENTILATING UNIT	N	NITROGEN	SDHW	SOFT DOMESTIC HOT WATER
AFC	ABOVE FINISH CEILING	EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	HW	DOMESTIC HOT WATER	N/A	NOT APPLICABLE	SDRHW	SOFT DOMESTIC RECIRCULATION HOT WATER
AFG	ABOVE FINISH GRADE	EF	EXHAUST FAN	HWR	HOT WATER RETURN	N/C	NORMALLY CLOSED	SF	SQUARE FEET
AHU	AIR HANDLING UNIT	EM	INDICATES EMERGENCY CIRCUIT	HWS	HOT WATER SUPPLY	N/O	NORMALLY OPEN	SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	IE	INVERT ELEVATION	NF	INDICATES NON-FUSED DEVICE	SR	SUPPLY REGISTER
BD	BACKDRAFT DAMPER, BLOWDOWN	ER	EXHAUST REGISTER	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT	ST	STORM
BFP	BACKFLOW PREVENTER	ETR	EXISTING TO REMAIN	KCMIL	1000 CIRCULAR MILS	NL	NIGHT LIGHT	ST/O	STORM OVERFLOW
BKR	BREAKER	EWB	ENTERING WET BULB	KV	KILOVOLT	NO	NITROUS OXIDE	STM	LOW PRESSURE STEAM
BOD	BOTTOM OF DUCT	EWC	ELECTRIC WATER COOLER	KVA	KILOVOLT AMPS	OA	OUTSIDE AIR	SWBD	SWITCHBOARD
BOP	BOTTOM OF PIPE	EWH	ELECTRIC WATER HEATER, ELEC. WALL HTR.	KW	KILOWATT	ORD	OVERFLOW ROOF DRAIN	TSTAT	THERMOSTAT
BOS	BOTTOM OF STRUCTURE	EXH	EXHAUST	KWH	KILOWATT HOUR	OX	OXYGEN	TU	TERMINAL UNIT
BTU	BRITISH THERMAL UNIT	F/S	COMBINATION FIRE AND SMOKE DAMPER	LAT	LEAVING AIR TEMPERATURE	PD	PUMP DISCHARGE	TW	TEMPERED WATER
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	LDB	LEAVING DRY BULB	PH	PHASE	UH	UNIT HEATER
CATV	CABLE TELEVISION SYSTEM	FAACP	FIRE ALARM ANNUNCIATOR CONTROL PANEL	LP	LIQUIFIED PETROLEUM	PIV	POST INDICATOR VALVE	UL	UNDERWRITERS LABORATORIES INC.
CB	CIRCUIT BREAKER	FCO	FLOOR CLEANOUT	LRA	LOCKED ROTOR AMPS	PNL	PANEL	UNO	UNLESS NOTED OTHERWISE
CCTV	CLOSED CIRCUIT TELEVISION	FCU	FAN COIL UNIT	LV	LOW VOLTAGE	PRV	PRESSURE REDUCING VALVE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER, FLOOR DRAIN	LWB	LEAVING WET BULB	QTY	QUANTITY	V	VENT PIPE
CHWR	CHILLED/HOT WATER RETURN	FLA	FULL LOAD AMPS	LWT	LEAVING WATER TEMPERATURE	RA	RETURN AIR	VAC	MEDICAL VACUUM
CHWS	CHILLED/HOT WATER SUPPLY	FLR	FLOOR	MA	MEDICAL AIR	RD	ROOF DRAIN	VAV	VARIABLE AIR VOLUME
CKT	CIRCUIT	FOR	FUEL OIL RETURN	MAU	MAKE UP AIR UNIT	REV	REVISION	VD	VOLUME DAMPER
CO	CLEANOUT, CARBON MONOXIDE	FOS	FUEL OIL SUPPLY	MBH	1000 BTU PER HOUR	RG	RETURN GRILLE	VTR	VENT THROUGH ROOF
CO2	CARBON DIOXIDE	FP	FIRE PROTECTION	MC	MECHANICAL CONTRACTOR	RH	RELATIVE HUMIDITY	W	WIRE, WATT(S)
CTR	COOLING TOWER RETURN	FPB	FAN POWERED TERMINAL UNIT	MCA	MINIMUM CIRCUIT AMPACITY	RHW	DOMESTIC RECIRCULATION HOT WATER	W/	WITH
CTS	COOLING TOWER SUPPLY	FPVAV	FAN POWERED TERMINAL UNIT	MCC	MOTOR CONTROL CENTER	RL	REFRIGERANT LIQUID	W/O	WITHOUT
CU	COPPER, CONDENSING UNIT	FS	FLOOR SINK	MD	MOTORIZED DAMPER	RLA	RUNNING LOAD AMPS	WB	WET BULB
CUH	CABINET UNIT HEATER	G	GAS (NATURAL), GROUND	MDP	MAIN DISTRIBUTION PANEL	RPM	REVOLUTIONS PER MINUTE	WCO	WALL CLEANOUT
CW	DOMESTIC COLD WATER	GCO	GRADE CLEANOUT	MFR	MANUFACTURER	RS	REFRIGERANT SUCTION	WH	WALL HYDRANT
CWR	CHILLED WATER RETURN	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	RTN	LOW PRESSURE CONDENSATE RETURN	WP	WEATHERPROOF
CWS	CHILLED WATER SUPPLY	GND	GROUND	MLO	MAIN LUGS ONLY	RTU	ROOF TOP UNIT	XFMR	TRANSFORMER
DDC	DIRECT DIGITAL CONTROL	GPM	GALLONS PER MINUTE	MTD	MOUNTED	SA	SUPPLY AIR	XP	EXPLOSION PROOF
DD	DECK DRAIN	HB	HOSE BIBB	MU	MAKE UP	SAN	SANITARY		
DN	DOWN	HOA	HAND OFF AUTOMATIC						

MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/20/2022

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project number 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:	

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

MECH. AND ELEC. - SYMBOLS & ABBREVIATIONS

ME101

PROJECT NAME:	2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME:	X:\22\22148\2214800\Drawings\01-2214800_ME101.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME:	PPatro Wednesday, May 11, 2022 11:03:51 AM
PLOTTED BY ◆ DATE ◆ TIME:	Charles Booty Tuesday, July 19, 2022 3:09:31 PM

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

PLAN NOTES:

① 2-1/2" DOMESTIC WATER SERVICE. REFER TO CIVIL FOR CONTINUATION. COORDINATE WITH SITE UTILITY CONTRACTOR FOR EXACT LOCATION AND DEPTH.

② 6" FIRE PROTECTION SERVICE. REFER TO CIVIL FOR CONTINUATION. COORDINATE WITH SITE UTILITY CONTRACTOR FOR EXACT LOCATION AND DEPTH.

③ GAS METER LOCATION. TOTAL GAS LOAD IS 1,860 MBH @ 2 PSI.

④ 4" SANITARY SEWER SERVICE. REFER TO CIVIL FOR CONTINUATION. COORDINATE WITH SITE UTILITY CONTRACTOR FOR EXACT LOCATION AND DEPTH.

⑤ 15" STORM SEWER SERVICE. REFER TO CIVIL FOR CONTINUATION. COORDINATE WITH SITE UTILITY CONTRACTOR FOR EXACT LOCATION AND DEPTH.

⑥ GREASE INTERCEPTOR.

⑦ SAND/OIL INTERCEPTOR.

ELECTRICAL GENERAL NOTES:

1. ALL SITE LIGHTING CIRCUITS TO BE FED WITH (2)#8, #8G., IN 1" CONDUIT.

ELECTRICAL PLAN NOTES:

$\boxed{1}$ ROUTE LIGHTING THROUGH LIGHTING RELAY PANEL 'LRCP' IN THE ELECTRICAL ROOM. REFER TO SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.

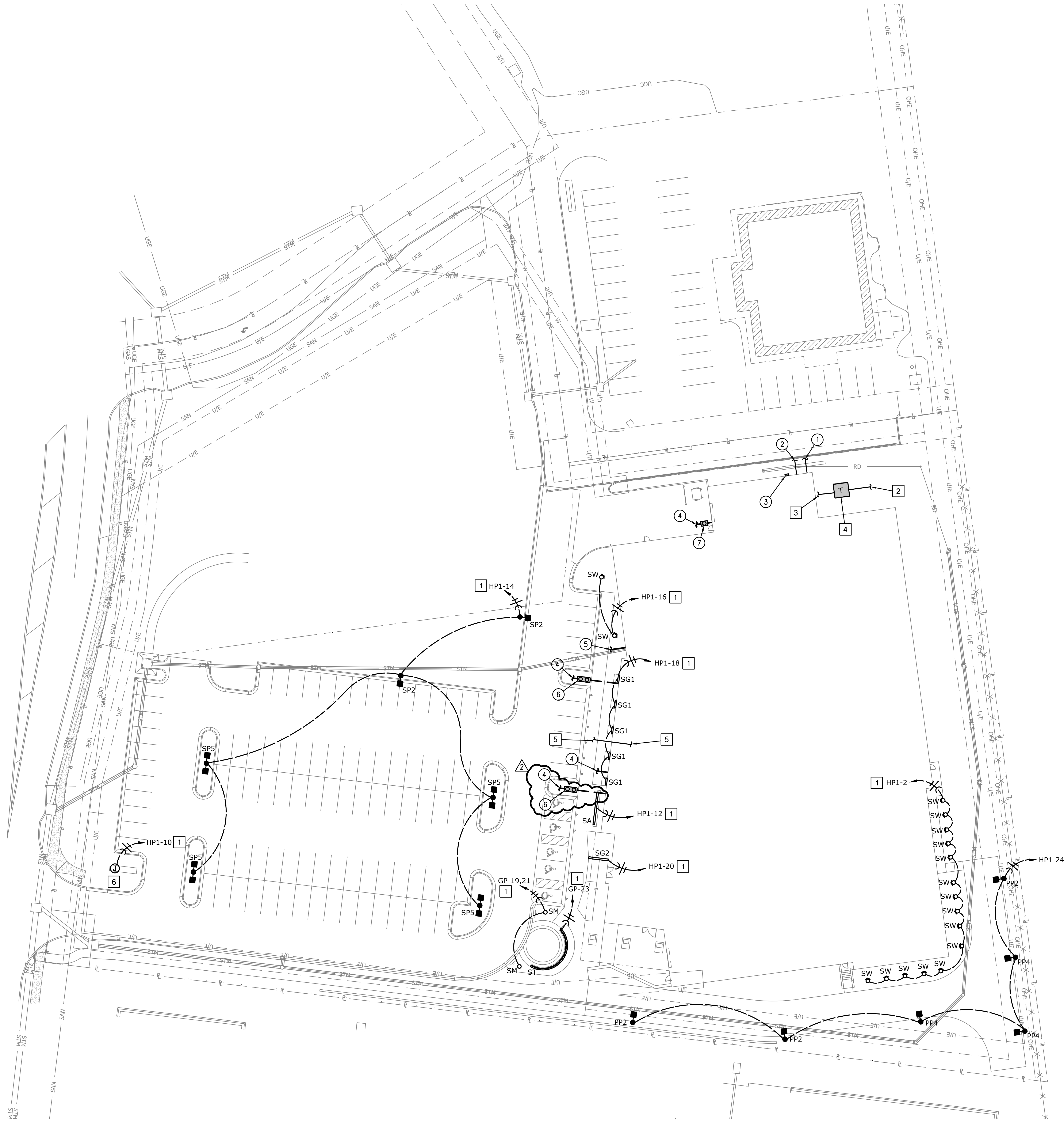
$\boxed{2}$ REFER TO ONE-LINE DIAGRAM FOR PRIMARY SIDE CONDUIT.

$\boxed{3}$ SECONDARY UNDERGROUND CONDUIT RUN TO C.T. CABINET. REFER TO ELECTRICAL ONE-LINE AND FLOOR PLAN FOR MORE INFORMATION. INSTALL PER LOCAL UTILITY REQUIREMENTS.

$\boxed{4}$ TRANSFORMER PAD LOCATION.

$\boxed{5}$ (2)4" CONDUITS FOR PHONE/DATA/FIBER TO BUILDING SERVICES. STUB INTO STORAGE ROOM WITH IT RACK LOCATED WITHIN. REFER TO SHEET E202 FOR EXACT LOCATION. EXTEND CONDUITS TO PROPERTY LINE AND COORDINATE EXACT TERMINATION POINT WITH LOCAL TELECOM UTILITIES.

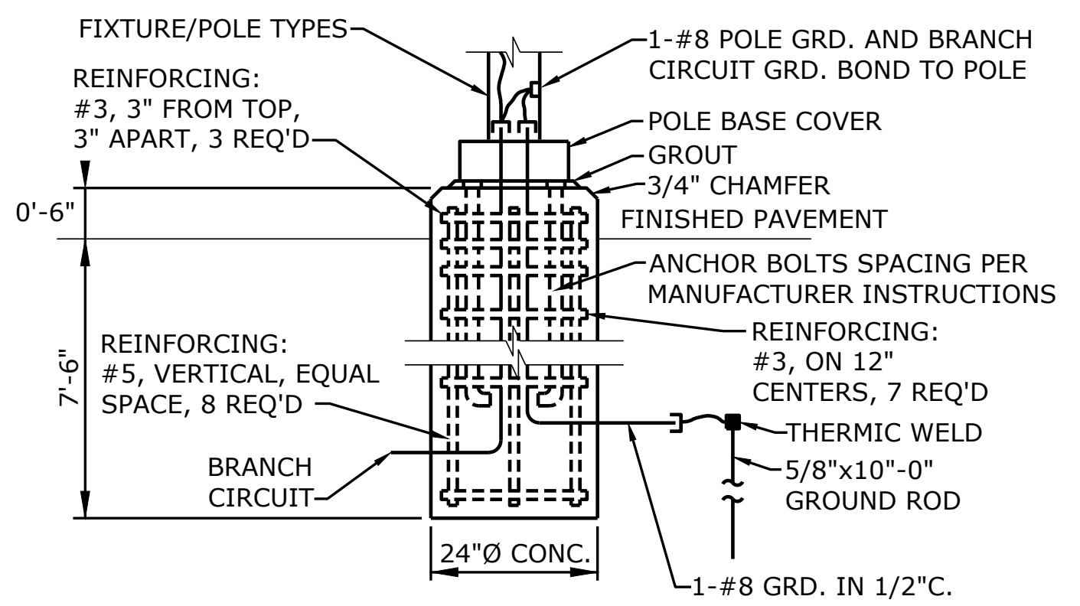
$\boxed{6}$ PROVIDE POWER FOR MONUMENT SIGN. COORDINATE EXACT LOCATION PRIOR TO TOUGH-IN.



MECHANICAL AND ELECTRICAL - SITE PLAN

SCALE:1"=30'-0"

scale: 1" = 30'-0"
15 0 15 30 45 75
feet


FIXTURE/POLE TYPES
REINFORCING: #3, 3" FROM TOP, 3" APART, 3 REQ'D
0'-6"
7'-6"
REINFORCING: #5, VERTICAL, EQUAL SPACE, 8 REQ'D
BRANCH CIRCUIT
1-#8 POLE GRD. AND BRANCH CIRCUIT GRD. BOND TO POLE
POLE BASE COVER
GROUT
3/4" CHAMFER
FINISHED PAVEMENT
ANCHOR BOLTS SPACING PER MANUFACTURER INSTRUCTIONS
REINFORCING: #3, ON 12" CENTERS, 7 REQ'D
THERMIC WELD
5/8"x10"-0" GROUND ROD
24"Ø CONC.
1-#8 GRD. IN 1/2"C.

NOTES:

1. CONCRETE BASES SHALL BE 4000 PSI COMPRESSIVE STRENGTH AIR ENTRAINED CONCRETE MINIMUM, CAST IN PLACE OR PRE-CAST. REINFORCING # TIES SHALL EXTEND FULL LENGTH OF BASES ST 12" O.C., WITH ADDITIONAL TIES AT TOP.
2. ANCHOR BOLTS AND BASE PLATE TEMPLATE SHALL BE PROVIDED BY LIGHTING POLE MANUFACTURER TO VENDOR FOR BASES PRIOR TO CONSTRUCTION.

POLE BASE DETAIL

SCALE: NOT TO SCALE

SLAGGIE ARCHITECTS, INC.
Kansas City, Missouri • Omaha, Nebraska
888-756-1958
slaggie.com

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2214800

©2022

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT

Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:	
2	CITY COMMENTS	09/01/22

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

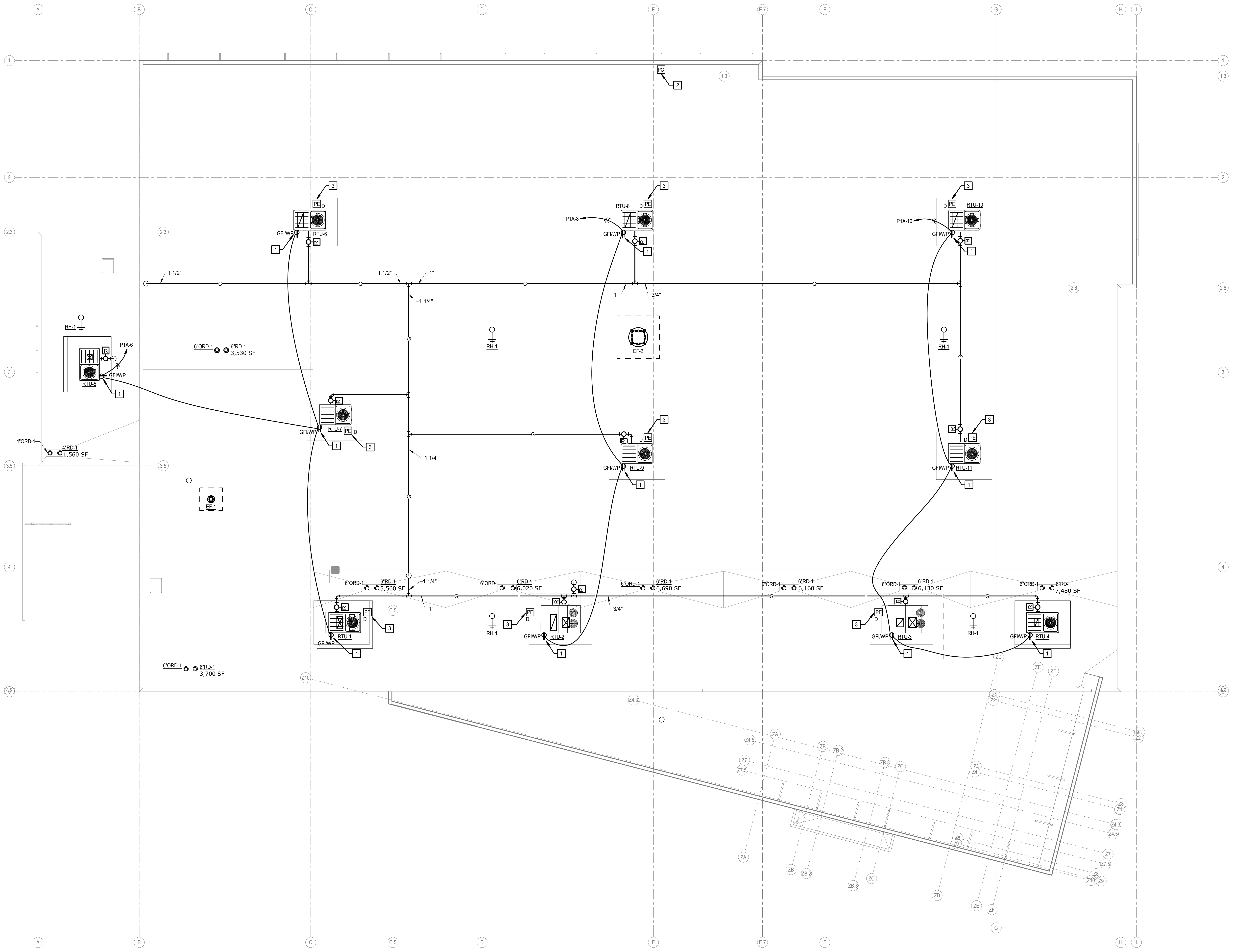
SITE PLAN - MECH. AND ELEC.

ME201

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\2214B\2214800\Drawings\01-2214800_ME201.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Jlangenfeld Thursday, September 1, 2022 4:37:02 PM
PLOTTED BY ◆ DATE ◆ TIME: Jared Langenfeld Thursday, September 1, 2022 4:38:15 PM

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022



MECHANICAL AND ELECTRICAL ROOF PLAN

1

3/32" = 1'-0"

ELECTRICAL PLAN NOTES:

1. UNPOWERED RECEPTACLE PROVIDED WITH RTU. PROVIDE ELECTRIC CONNECTION TO RECEPTACLE ON RTU. REFER TO MECHANICAL SCHEDUELS FOR ADDITIONAL INFORMATION.
2. PHOTOCELL FOR EXTERIOR LIGHTING CONTROL. MOUNT ON PARAPET WALL FACING NORTH. REFER TO RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION.
3. DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF OUTSIDE AIR UNIT, LOCATE IN SUPPLY DUCT. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. UNIT TO ALSO SHUTDOWN UPON DETECTION OF SMOKE AT ANY OF THE FIRE/SMOKE DAMPERS ASSOCIATED WITH THIS EQUIPMENT.

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888-756-1958
slaggie.com

smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

# Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

MECHANICAL AND ELECTRICAL - ROOF PLAN

ME202

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As Noted on Plans Review

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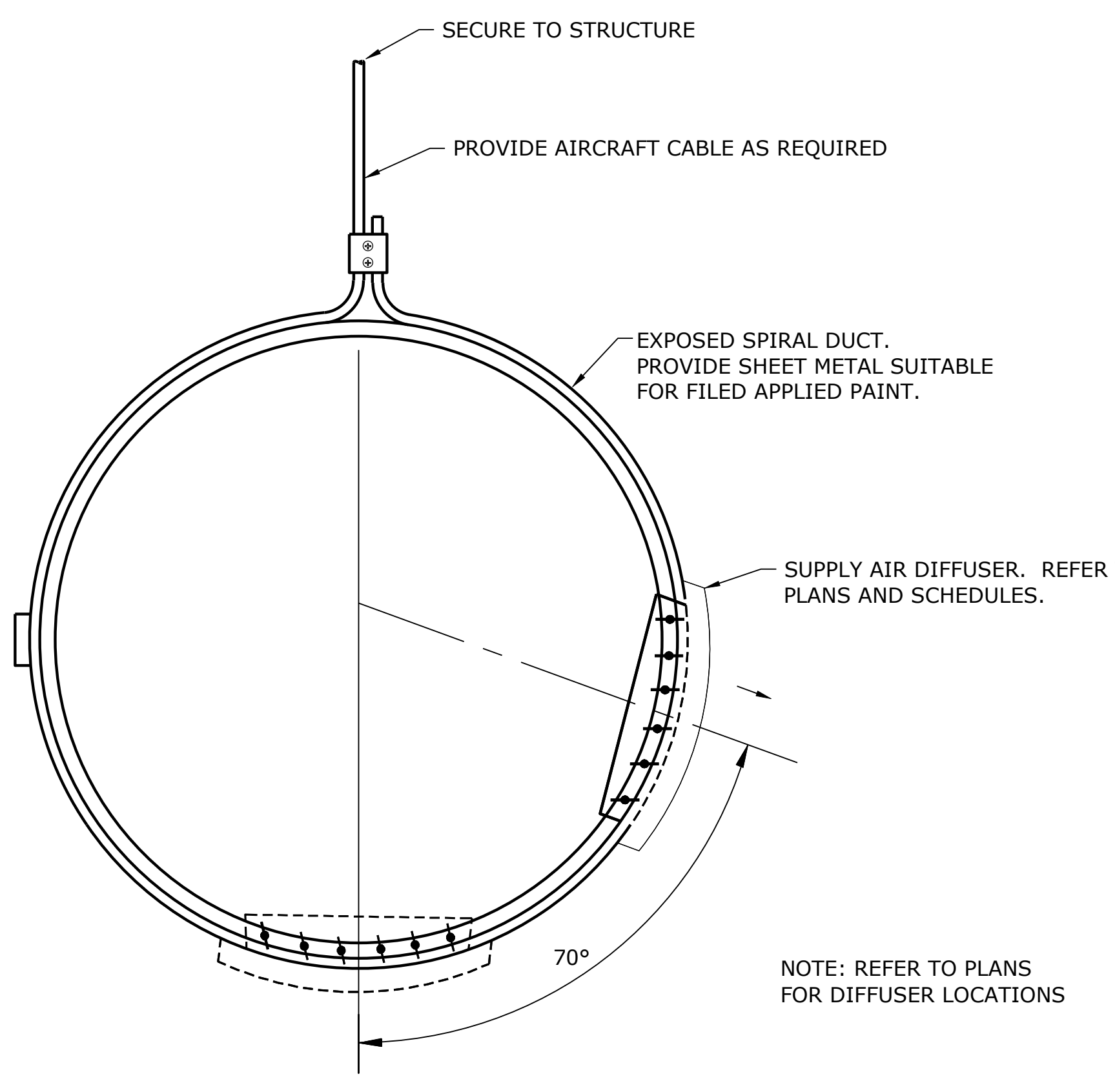
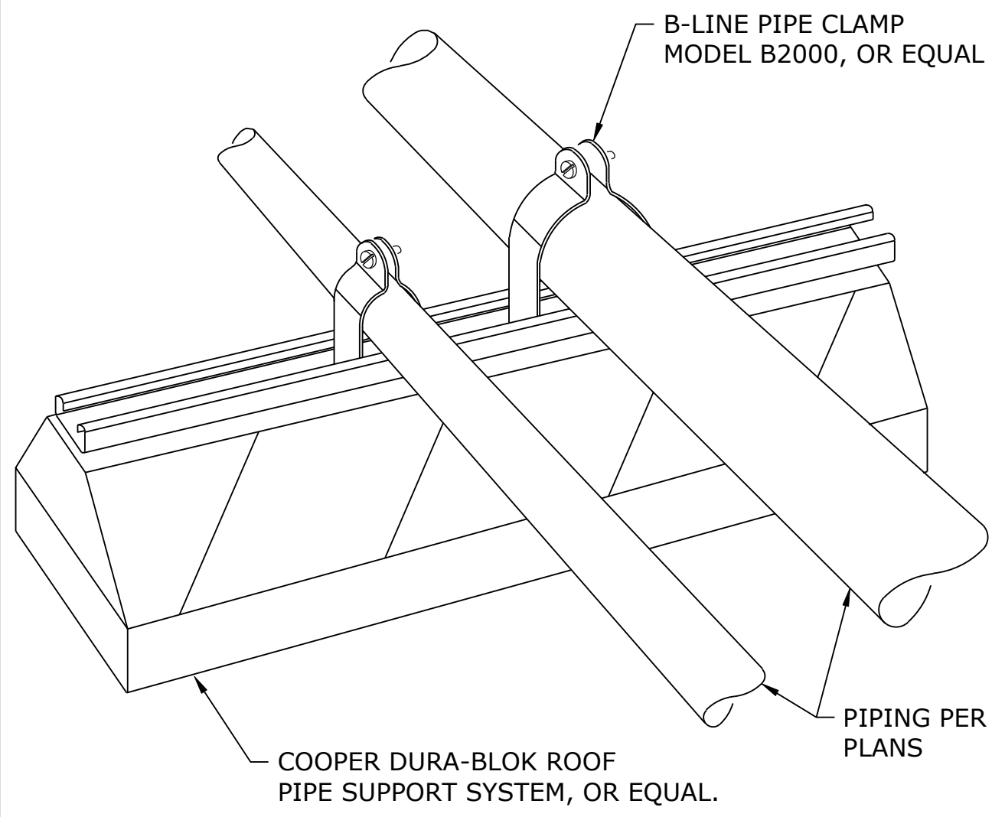
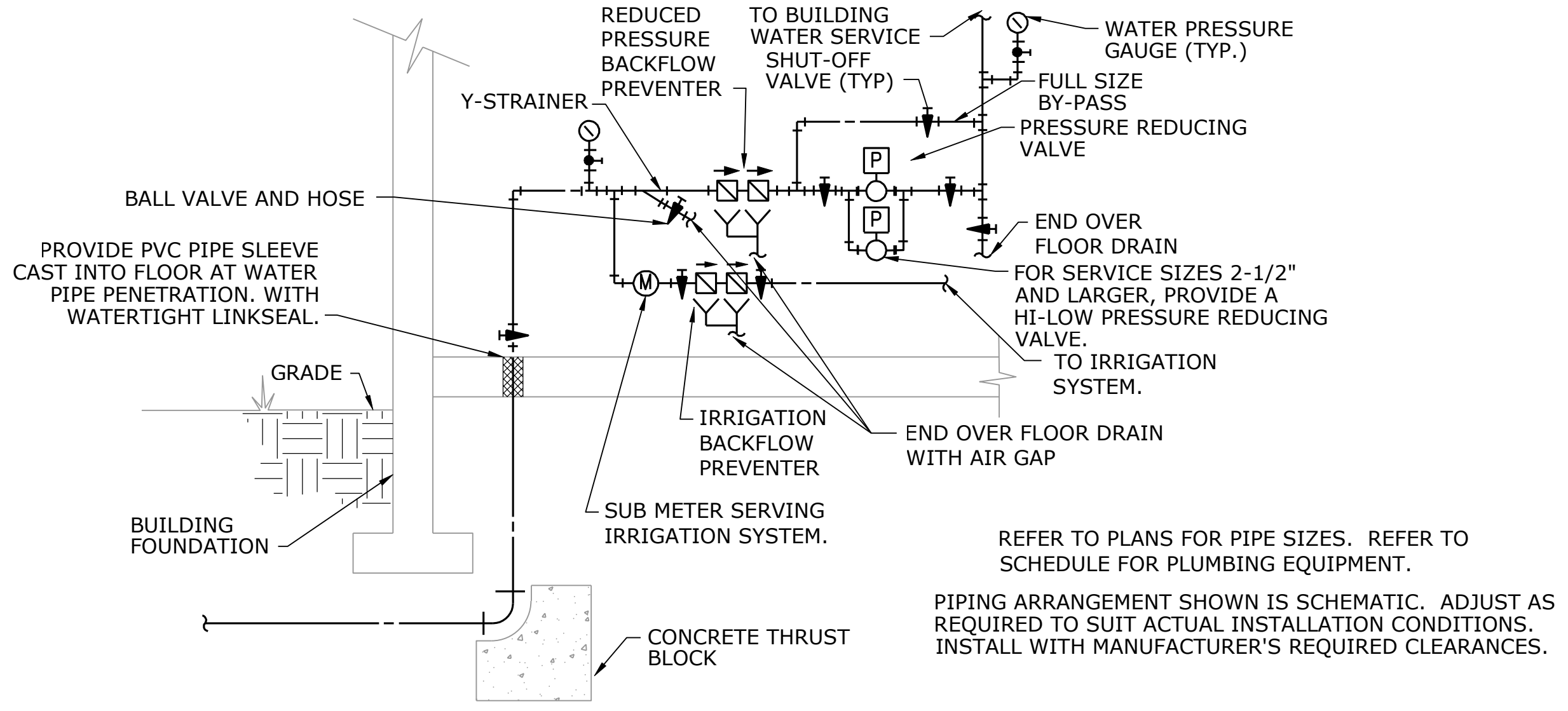
09/20/2022


SECURE TO STRUCTURE
PROVIDE AIRCRAFT CABLE AS REQUIRED
EXPOSED SPIRAL DUCT. PROVIDE SHEET METAL SUITABLE FOR FILED APPLIED PAINT.
SUPPLY AIR DIFFUSER. REFER TO HVAC PLANS AND SCHEDULES.
70°
NOTE: REFER TO PLANS FOR DIFFUSER LOCATIONS

EXPOSED ROUND DUCT WITH DIFFUSERS
NOT TO SCALE


B-LINE PIPE CLAMP MODEL B2000, OR EQUAL
PIPING PER PLANS
COOPER DURA-BLOK ROOF PIPE SUPPORT SYSTEM, OR EQUAL.

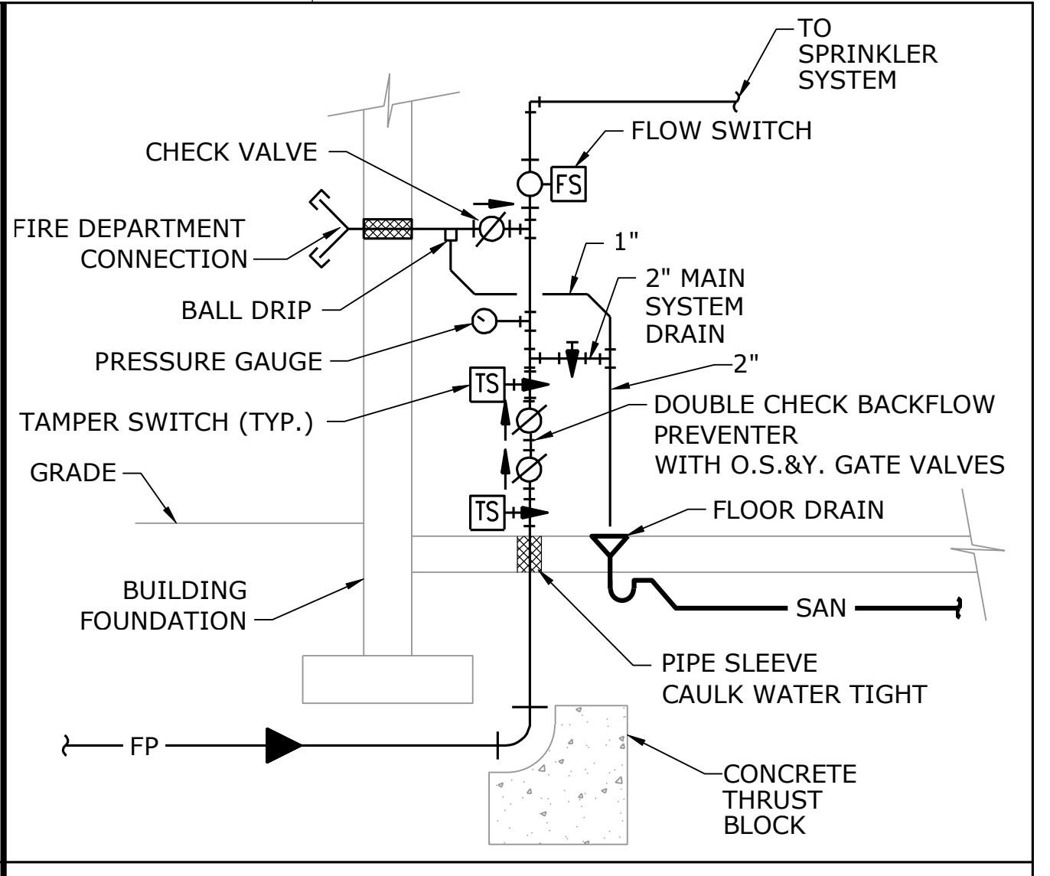
ROOF PIPING SUPPORT DETAIL
NOT TO SCALE


REDUCED PRESSURE BACKFLOW PREVENTER
TO BUILDING WATER SERVICE
SHUT-OFF VALVE (TYP)
WATER PRESSURE GAUGE (TYP.)
FULL SIZE BY-PASS
PRESSURE REDUCING VALVE
Y-STRAINER
BALL VALVE AND HOSE
PROVIDE PVC PIPE SLEEVE CAST INTO FLOOR AT WATER PIPE PENETRATION. WITH WATERTIGHT LINKSEAL.
END OVER FLOOR DRAIN
FOR SERVICE SIZES 2-1/2" AND LARGER, PROVIDE A HI-LOW PRESSURE REDUCING VALVE.
TO IRRIGATION SYSTEM.
GRADE
IRRIGATION BACKFLOW PREVENTER
END OVER FLOOR DRAIN WITH AIR GAP
BUILDING FOUNDATION
SUB METER SERVING IRRIGATION SYSTEM.
CONCRETE THRUST BLOCK
M
P

REFER TO PLANS FOR PIPE SIZES. REFER TO SCHEDULE FOR PLUMBING EQUIPMENT.

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS. INSTALL WITH MANUFACTURER'S REQUIRED CLEARANCES.

DOMESTIC WATER SERVICE DETAIL
NOT TO SCALE



FIRE PROTECTION ENTRANCE DETAIL
NOT TO SCALE

SAI
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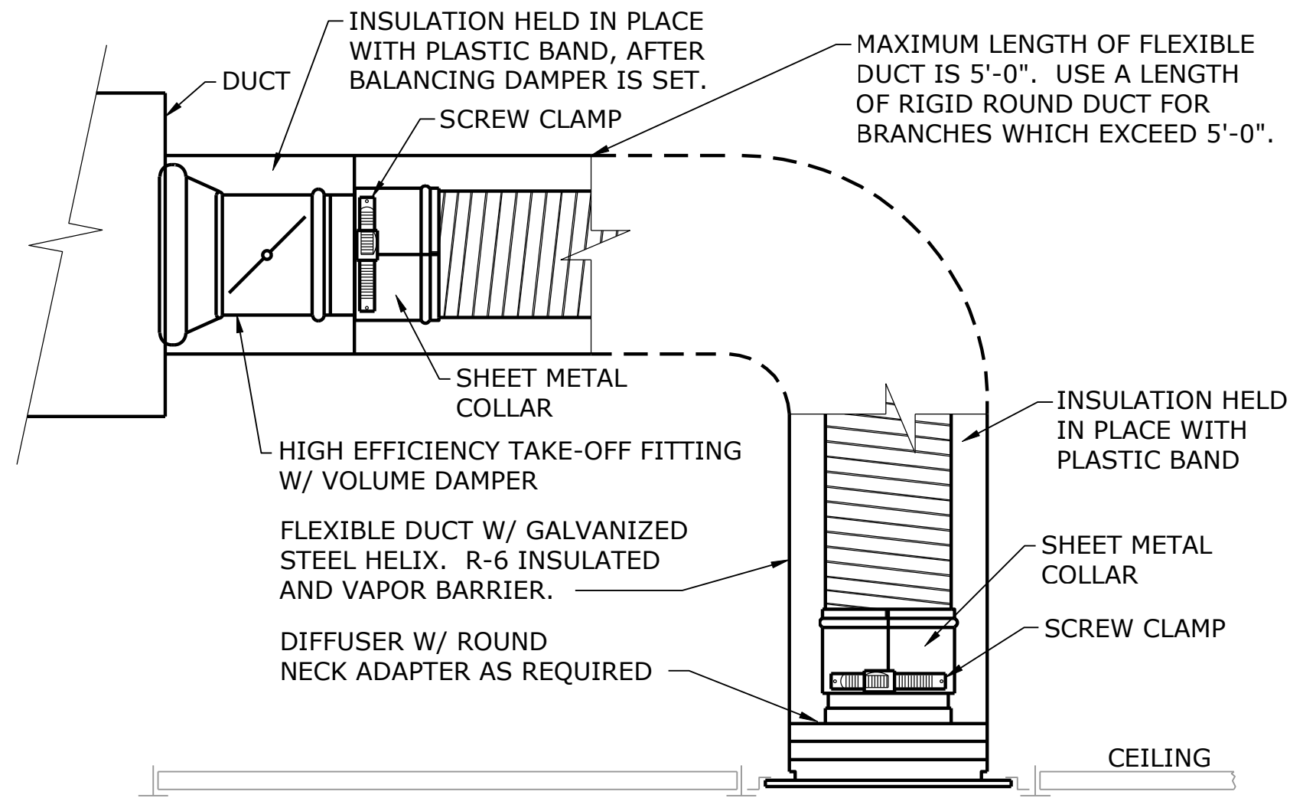
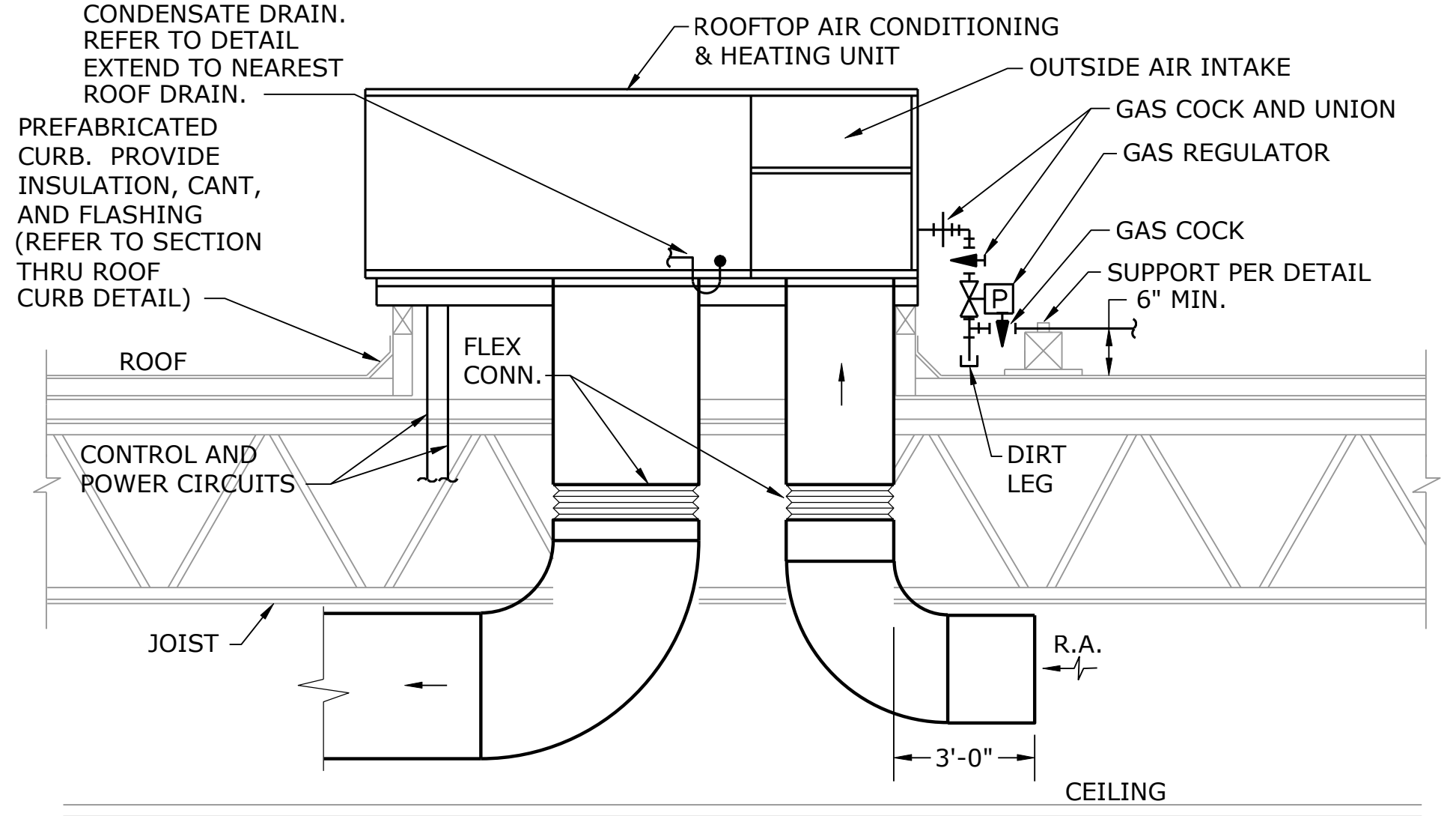
slaggie.com

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2214800

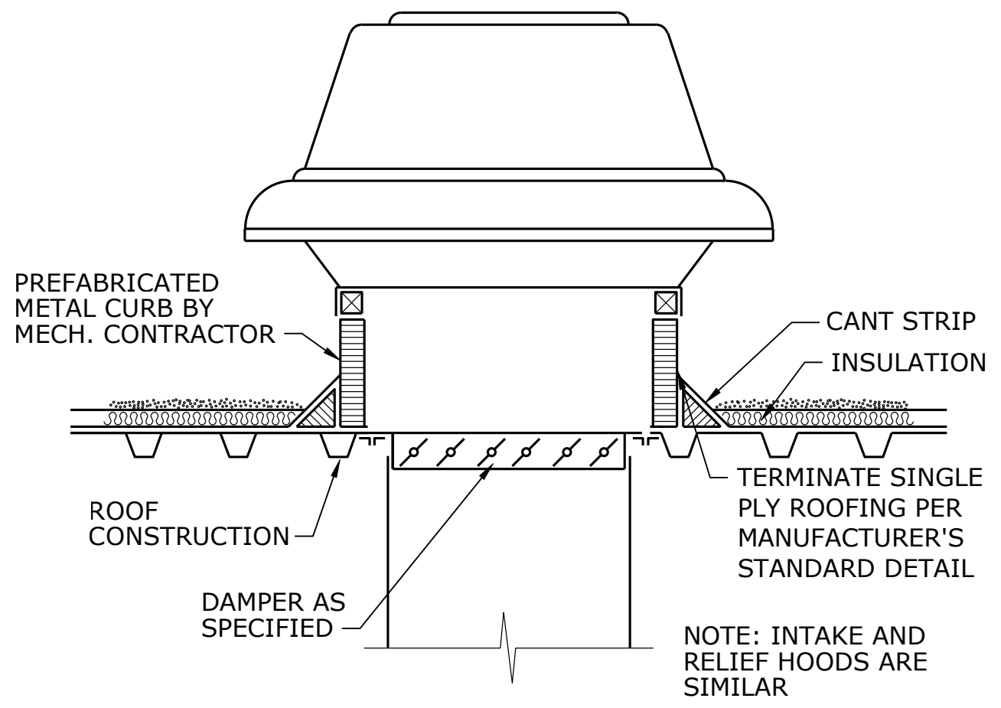
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22


DUCT
INSULATION HELD IN PLACE WITH PLASTIC BAND, AFTER BALANCING DAMPER IS SET.
SCREW CLAMP
MAXIMUM LENGTH OF FLEXIBLE DUCT IS 5'-0". USE A LENGTH OF RIGID ROUND DUCT FOR BRANCHES WHICH EXCEED 5'-0".
SHEET METAL COLLAR
HIGH EFFICIENCY TAKE-OFF FITTING W/ VOLUME DAMPER
INSULATION HELD IN PLACE WITH PLASTIC BAND
FLEXIBLE DUCT W/ GALVANIZED STEEL HELIX. R-6 INSULATED AND VAPOR BARRIER.
SHEET METAL COLLAR
SCREW CLAMP
DIFFUSER W/ ROUND NECK ADAPTER AS REQUIRED
CEILING

FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE

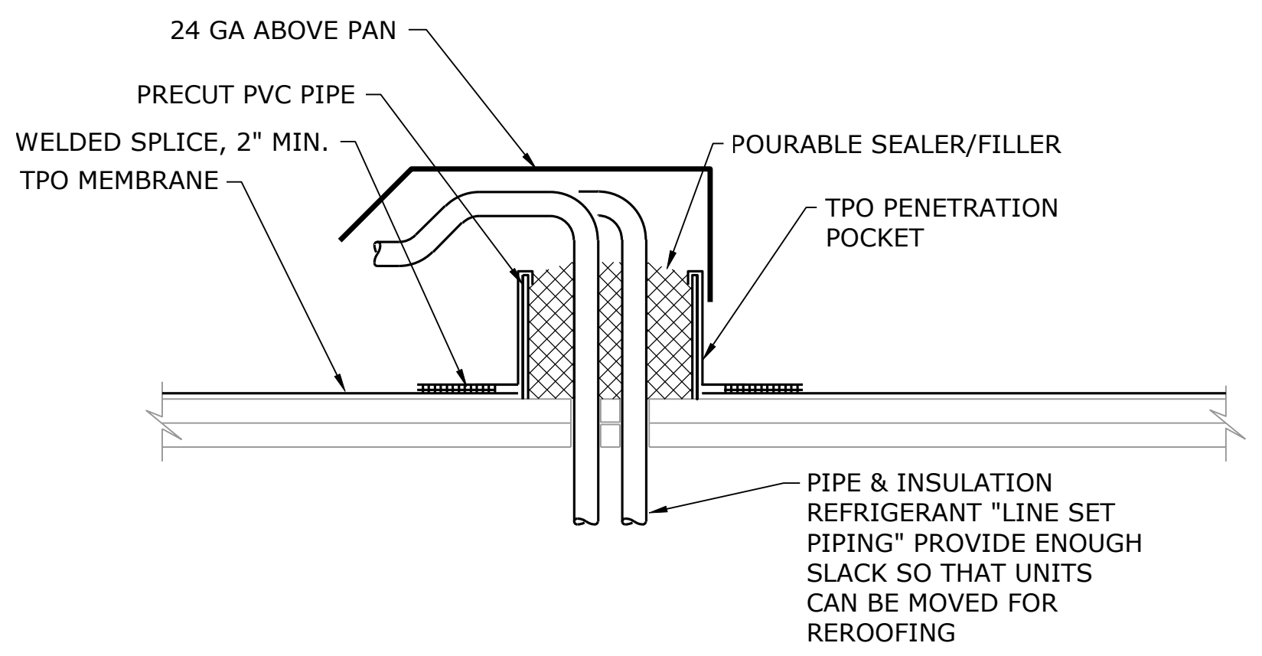

CONDENSATE DRAIN. REFER TO DETAIL EXTEND TO NEAREST ROOF DRAIN.
ROOFTOP AIR CONDITIONING & HEATING UNIT
OUTSIDE AIR INTAKE
GAS COCK AND UNION
GAS REGULATOR
PREFABRICATED CURB. PROVIDE INSULATION, CANT, AND FLASHING (REFER TO SECTION THRU ROOF CURB DETAIL)
GAS COCK
SUPPORT PER DETAIL
6" MIN.
ROOF
FLEX CONN.
DIRT LEG
CONTROL AND POWER CIRCUITS
JOIST
R.A.
3'-0"
CEILING
P

ROOFTOP UNIT DETAIL
NOT TO SCALE

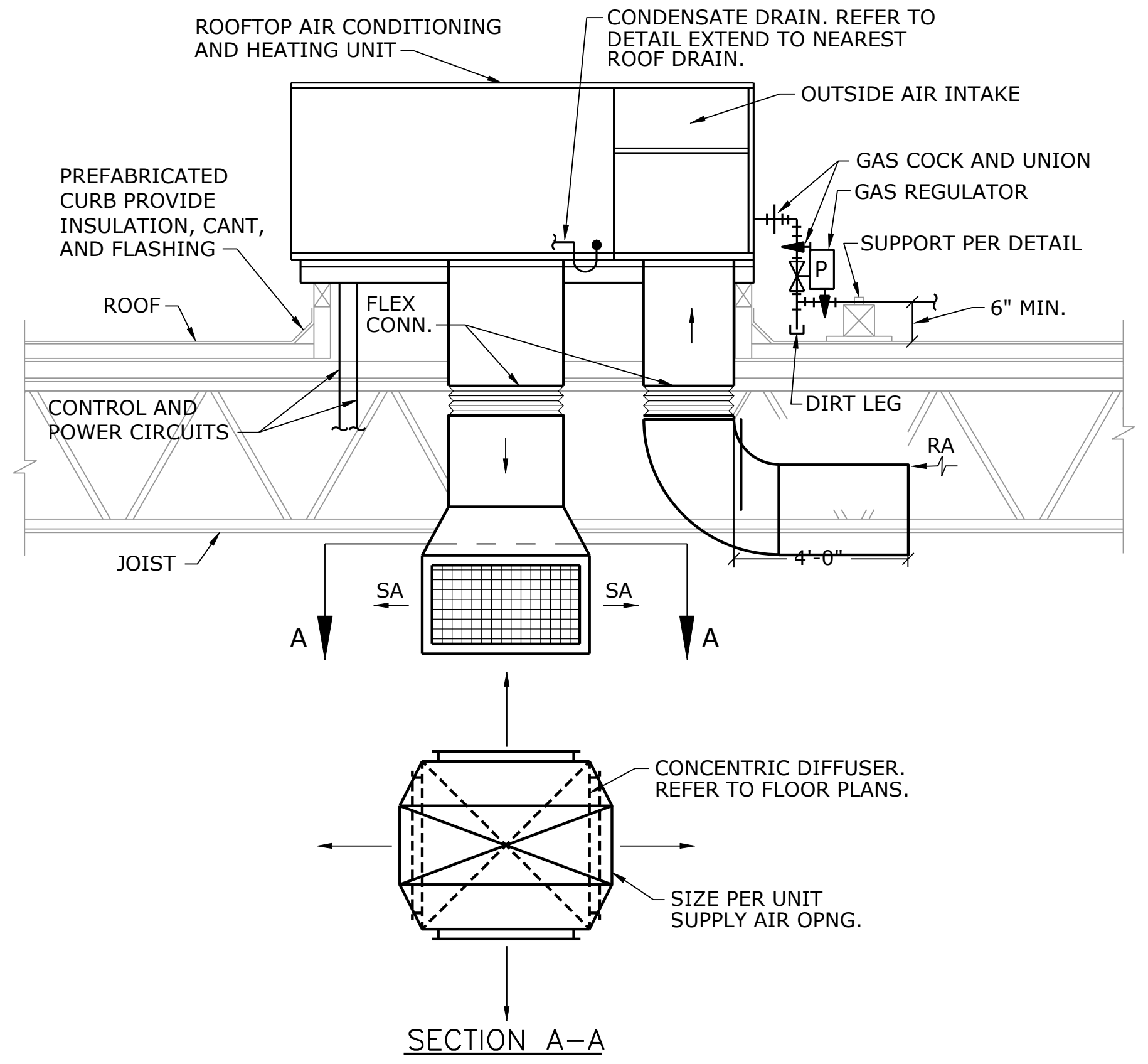

PREFABRICATED METAL CURB BY MECH. CONTRACTOR
CANT STRIP
INSULATION
ROOF CONSTRUCTION
TERMINATE SINGLE PLY ROOFING PER MANUFACTURER'S STANDARD DETAIL
DAMPER AS SPECIFIED

NOTE: INTAKE AND RELIEF HOODS ARE SIMILAR

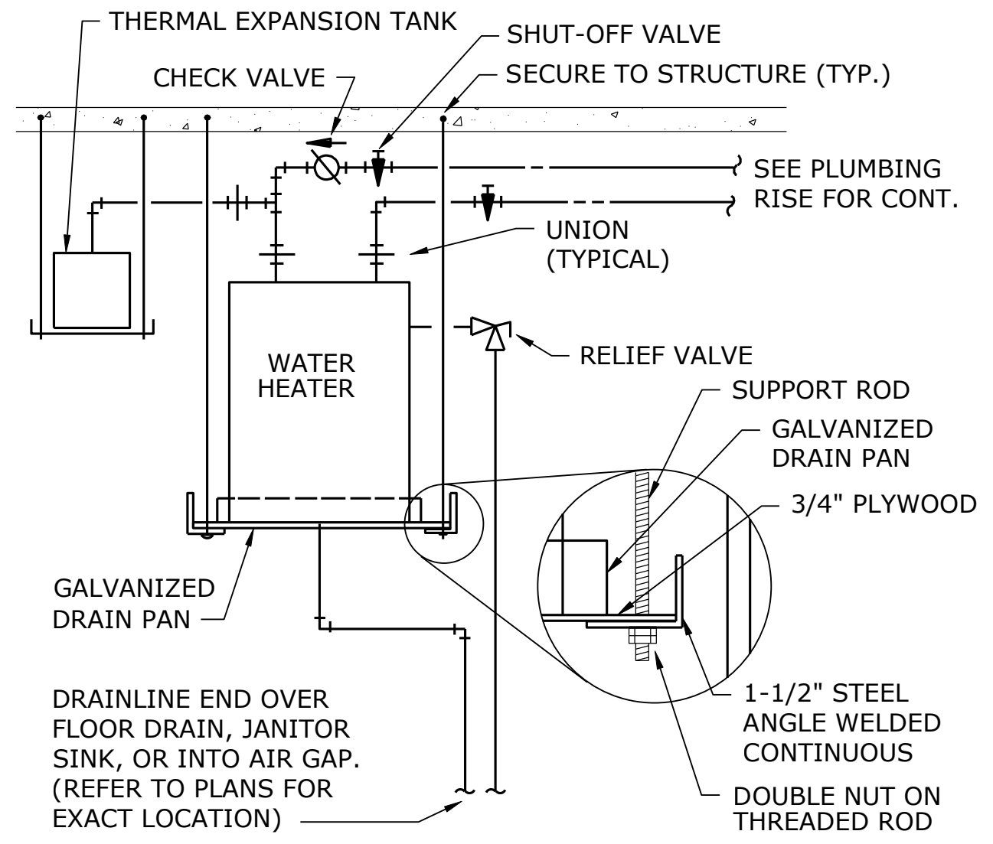
POWER ROOF VENTILATOR
NOT TO SCALE


24 GA ABOVE PAN
PRECUT PVC PIPE
WELDED SPLICE, 2" MIN.
TPO MEMBRANE
POURABLE SEALER/FILLER
TPO PENETRATION POCKET
PIPE & INSULATION REFRIGERANT "LINE SET PIPING" PROVIDE ENOUGH SLACK SO THAT UNITS CAN BE MOVED FOR REROOFING

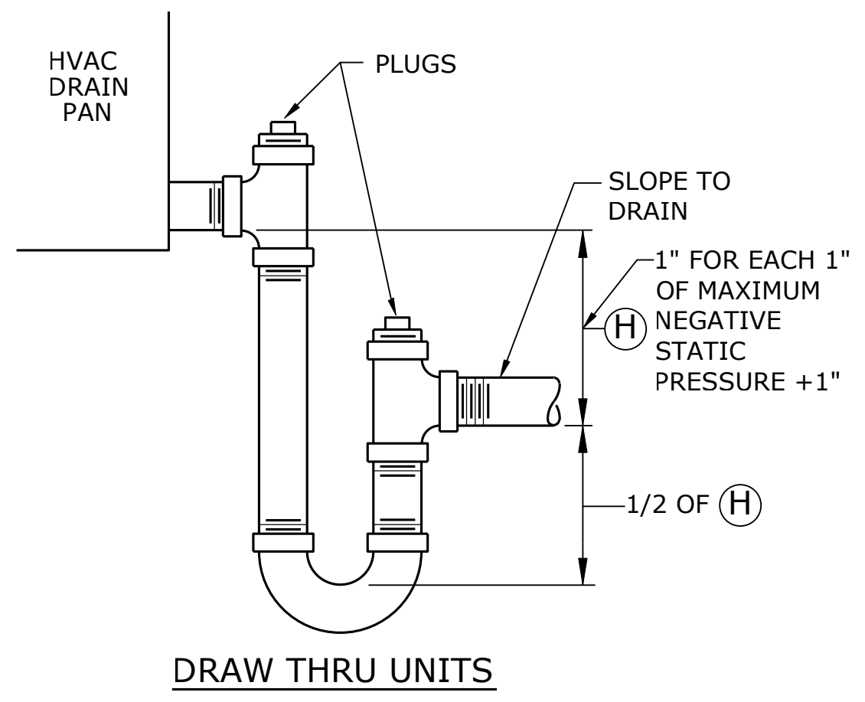
PITCH POCKET DETAIL FOR REFRIGERANT PIPING
NOT TO SCALE


ROOFTOP AIR CONDITIONING AND HEATING UNIT
CONDENSATE DRAIN. REFER TO DETAIL EXTEND TO NEAREST ROOF DRAIN.
OUTSIDE AIR INTAKE
GAS COCK AND UNION
GAS REGULATOR
PREFABRICATED CURB PROVIDE INSULATION, CANT, AND FLASHING
SUPPORT PER DETAIL
ROOF
FLEX CONN.
6" MIN.
DIRT LEG
CONTROL AND POWER CIRCUITS
RA
JOIST
4'-0"
SA
SA
A
A
P
CONCENTRIC DIFFUSER. REFER TO FLOOR PLANS.
SIZE PER UNIT SUPPLY AIR OPNG.
SECTION A–A

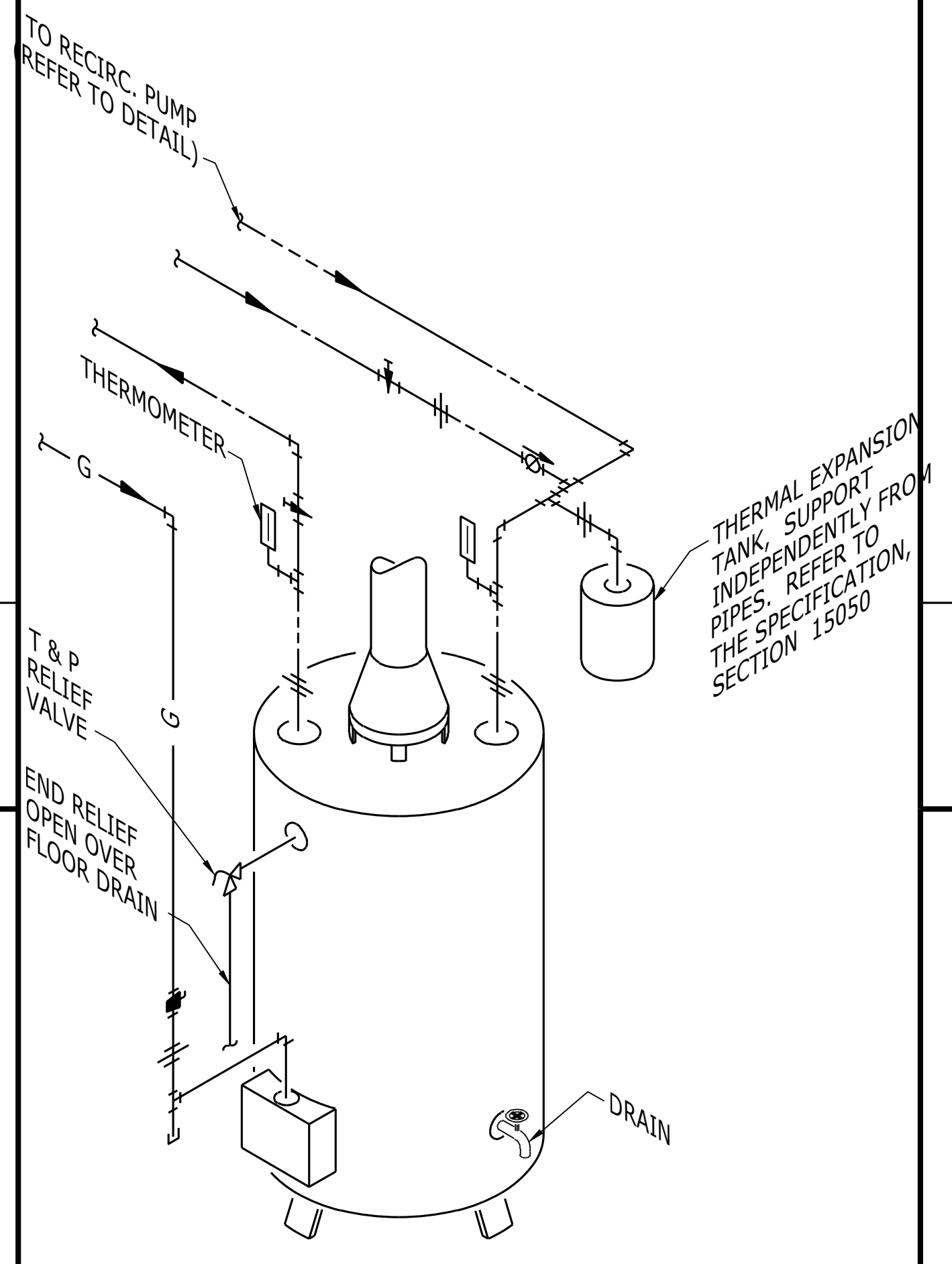
ROOFTOP UNIT DETAIL
NOT TO SCALE


THERMAL EXPANSION TANK
SHUT-OFF VALVE
CHECK VALVE
SECURE TO STRUCTURE (TYP.)
SEE PLUMBING RISE FOR CONT.
UNION (TYPICAL)
WATER HEATER
RELIEF VALVE
SUPPORT ROD
GALVANIZED DRAIN PAN
3/4" PLYWOOD
GALVANIZED DRAIN PAN
DRAINLINE END OVER FLOOR DRAIN, JANITOR SINK, OR INTO AIR GAP. (REFER TO PLANS FOR EXACT LOCATION)
1-1/2" STEEL ANGLE WELDED CONTINUOUS
DOUBLE NUT ON THREADED ROD

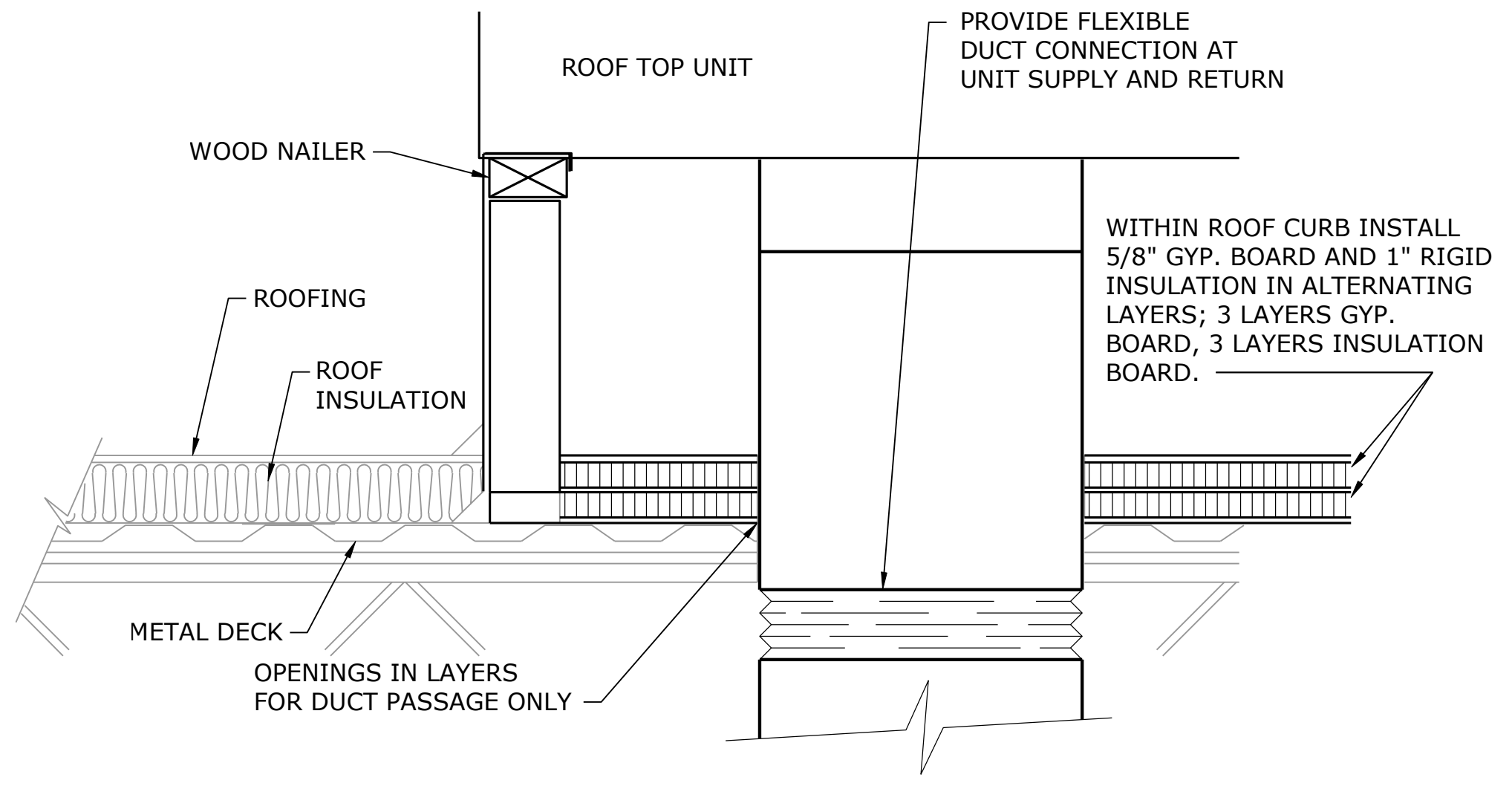
SUSPENDED WATER HEATER DETAIL
NOT TO SCALE



CONDENSATE TRAP DRAIN DETAIL
NOT TO SCALE


TO RECIRC. PUMP (REFER TO DETAIL)
THERMOMETER
G
G
THERMAL EXPANSION TANK, SUPPORT INDEPENDENTLY FROM PIPES. REFER TO THE SPECIFICATION, SECTION 15050
T & P RELIEF VALVE
END RELIEF OPEN OVER FLOOR DRAIN
DRAIN

HEATER DETAIL
NOT TO SCALE


ROOF TOP UNIT
PROVIDE FLEXIBLE DUCT CONNECTION AT UNIT SUPPLY AND RETURN
WOOD NAILER
WITHIN ROOF CURB INSTALL 5/8" GYP. BOARD AND 1" RIGID INSULATION IN ALTERNATING LAYERS; 3 LAYERS GYP. BOARD, 3 LAYERS INSULATION BOARD.
ROOFING
ROOF INSULATION
METAL DECK
OPENINGS IN LAYERS FOR DUCT PASSAGE ONLY

SECTION THRU ROOF CURB
NO SCALE

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:

Project #: 211107

CONSTRUCTION
DOCUMENTS
July 19, 2022

MECH. AND ELEC. -
SCHEDULES AND DETAILS

ME301

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\22148\2214800\Drawings\01-2214800_ME301.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Jlangenfeld Tuesday, July 19, 2022 3:01:20 PM
PLOTTED BY ◆ DATE ◆ TIME: Charles Booty Tuesday, July 19, 2022 3:09:48 PM

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/20/2022

PIPE INSULATION SCHEDULE - HVAC

SERVICE	PIPE SIZE	INSULATION	NOTES
CONDENSATE DRAIN	1/2" - 1-1/2"	1/2" FIBERGLASS, ASJ	1,2,3,4,5
	2" AND LARGER	1" FIBERGLASS, ASJ	
REFRIGERANT SUCTION REFRIGERANT HOT GAS REFRIGERANT LIQUID	ALL	1/2" FLEXIBLE CLOSED CELL ELASTOMERIC	1,2,3,4,5
REFRIGERANT SUCTION (EXTERIOR) REFRIGERANT HOT GAS (EXTERIOR)	ALL	1/2"FIBERGLASS, ASJ WITH PVC (ALUMINUM) JACKET	1,2,3,4,5

NOTES:
1: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE RIGID FOAM INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.
2: ELBOW AND FITTING INSULATION SHALL BE OF SAME THICKNESS AS ADJACENT STRAIGHT PIPE INSULATION.
3: FITTING INSULATION TO HAVE ASJ OR SUPPLEMENTAL VAPOR BARRIER SEALED TO ADJACENT PIPE INSULATION.
4: PROVIDE PVC JACKET ON ALL FITTINGS AND ELBOWS IN EXPOSED AREAS.
5: PROVIDE PVC JACKET ON ALL PIPING IN MECHANICAL ROOMS.
6: PROVIDE PRE-FORMED, RIGID PIPE INSULATION ON ALL ELBOWS AND FITTINGS.

DUCTWORK SCHEDULE

SERVICE	DUCT SHAPE	SMACNA REQUIREMENTS			OTHER REQUIREMENTS
		CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	
SUPPLY AIR DUCTS CONNECTED TO CONSTANT VOLUME, SINGLE ZONE VAV PACKAGED ROOFTOP UNITS, SINGLE ZONE PACKAGED ROOFTOP UNITS AND DOWNSTREAM OF TERMINAL UNITS.	RECTANGULAR	2" WG POSITIVE	B	12	1/2", 3LB DENSITY LINER
	ROUND (CONCEALED)	4" WG POSITIVE SPIRAL SEAM	B	3	INSULATED - SEE SCHEDULE
	ROUND (EXPOSED)	4" WG POSITIVE SPIRAL SEAM	B	3	
EXHAUST DUCTS TO THE INLET OF THE FAN	RECTANGULAR OR ROUND	2" WG POSITIVE	B - RECTANGULAR A - ROUND	12 - RECTANGULAR 3 - ROUND	
RETURN AIR DUCTWORK	RECTANGULAR	2" WG NEGATIVE	B	12	1/2", 3LB DENSITY LINER

NOTES:
1: SEE DUCTWORK INSULATION SCHEDULE FOR REQUIREMENTS ON DUCT INSULATION

DRAIN SCHEDULE

MARK	MANUFACTURER/ MODEL	DESCRIPTION
FD-1	ZURN Z415S	CAST IRON FLOOR DRAIN WITH 6"x6" POLISHED NICKEL BRONZE STRAINER, ADJUSTABLE, BOTTOM OUTLET. PROVIDE WITH SURSEAL TRAP GUARD.
FD-2	ZURN Z415B-4	CAST IRON FLOOR DRAIN WITH 6"ø POLISHED NICKEL BRONZE STRAINER, ADJUSTABLE, BOTTOM OUTLET, 4"ø FUNNEL. PROVIDE WITH SURSEAL TRAP GUARD.
FD-3	ZURN Z610	CAST IRON FLOOR SINK, 12-1/2" SQUARE, SEDIMENT BUCKET. PROVIDE WITH SURSEAL TRAP GUARD.
FS-1	ZURN Z1900	12"x12"x6" CAST IRON FLOOR SINK, ACID-RESISTANT COATING, ABS INTERIOR DOME STRAINER, 1/2 GRATE. PROVIDE WITH SURSEAL TRAP GUARD.
TD-1	ZURN Z886-RFSC	HIGH DENSITY POLYEHTYLENE TRENCH DRAIN, 6" WIDE, 10'-0" LONG, HEAVY-DUTY GALVANIZED FRAME, STAINLESS STEEL SLOTTED GRATE.
RD-1	ZURN Z100	CAST IRON ROOF DRAIN WITH CAST IRON DOME STRAINER, ADJUSTABLE ROOF FLANGE AND VANDAL RESISTANT SCREWS. BOTTOM OUTLET.
ORD-1	ZURN Z100-89	CAST IRON ROOF DRAIN WITH CAST IRON DOME STRAINER, ADJUSTABLE ROOF FLANGE AND VANDAL RESISTANT SCREWS. PROVIDE WITH 2" DAM VARIATION.
DS-1	ZURN Z199-DC	STAINLESS STEEL DOWNSPOUT NOZZLE, PERFORATED HINGE, NO-HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL.

NOTES:
1: REFER TO PLANS FOR OUTLET SIZES

DUCTWORK INSULATION SCHEDULE

SERVICE	INSULATION
CONCEALED DUCTWORK AS FOLLOWS:	1-1/2", 1.5 LB. FIBERGLASS BLANKET, VAPOR BARRIER FACED,
ALL ROUND SUPPLY AIR AND UNLINED BRANCH TAKE-OFFS FOR ROUND DUCTS	WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING.

NOTES:
1: SEE DUCTWORK SCHEDULE FOR ITEMS THAT ARE TO BE LINED.

PIPE INSULATION SCHEDULE - PLUMBING

SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
	2-1/2" AND LARGER	1" FIBERGLASS, ASJ
DOMESTIC HOT WATER RECIRCULATING HOT WATER	ALL	1" FIBERGLASS, ASJ
EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION
ROOF DRAIN BODIES ROOF DRAIN PIPING	ALL	1" FIBERGLASS, ASJ

NOTE: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE RIGID FOAM INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.

PACKAGED ROOF TOP UNIT SCHEDULE

	DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10	RTU-11
UNIT	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	YSJ150	YSJ150	YSJ150	YHC037	YHC067	YSJ120	YSJ120	YSJ120	YSJ120	YSJ120	YSJ120
	AREA SERVED	GAME ROOM	LOUNGE	LOBBY	MEETING	KART SHOP	TRACK AREA	TRACK AREA	TRACK AREA	TRACK AREA	TRACK AREA	TRACK AREA
	NOMINAL TONS	12.5	12.5	12.5	3	5	10	10	10	10	10	10
	UNIT WEIGHT (LBS)	2100	2100	2100	1300	1500	1800	1800	1800	1800	1800	1800
SUPPLY FAN	CFM	4400	4400	5000	1000	1800	4000	4000	4000	4000	4000	4000
	MINIMUM OUTSIDE AIR (CFM)	1,100	1,200	900	200	400	1,050	1,050	1,050	1,050	1,050	1,050
	EXTERNAL S.P. (IN. W.C.)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	BRAKE HORSEPOWER	3.03	3.03	3.37	0.5	0.8	2.5	2.5	2.5	2.5	2.5	2.5
	MOTOR HORSEPOWER	4.7	4.7	4.7	0.75	1	3.1	3.1	3.1	3.1	3.1	3.1
	VOLTAGE/ PHASE	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3
DX COOLING	ENT. AIR (DB/WB)	80.3/66.0	80.6/66.2	78.8/65.0	79.2/65.3	79.7/65.6	80.5/66.2	80.5/66.2	80.5/66.2	80.5/66.2	80.5/66.2	80.5/66.2
	LVG. AIR (DB/WB)	55/54	57/56	57/56	57/56	57/56	57/56	57/56	57/56	57/56	57/56	57/56
	AMBIENT (DB)	105	105	105	105	105	105	105	105	105	105	105
	TOTAL COOLING CAPACITY (MBH)	141.6	142.2	140.1	29.9	51.3	108.5	108.5	108.5	108.5	108.5	108.5
	SENSIBLE COOLING CAPACITY (MBH)	109.7	110.2	114.1	22.7	40.1	89.2	89.2	89.2	89.2	89.2	89.2
	MINIMUM EFFICIENCY @ ARI	10.8	10.8	10.8	13	13	11	11	11	11	11	11
	REFRIGERANT	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	STAGES OF COOLING	3	3	3	1	1	3	3	3	3	3	3
GAS HEAT	AIRFLOW (CFM)	4,400	4,400	5,000	1,000	1,800	4,000	4,000	4,000	4,000	4,000	4,000
	ENT. AIR (DB)	52.5	50.9	57.4	56.0	54.4	51.6	51.6	51.6	51.6	51.6	51.6
	LVG. AIR (DB)	90	90	90	90	90	90	90	90	90	90	90
	HEATING INPUT (MBH)	200	200	200	80	80	150	150	150	150	150	150
	HEATING OUTPUT (MBH)	162	162	162	64	64	121.5	121.5	121.5	121.5	121.5	121.5
	STAGES OF HEATING	2	2	2	1	1	2	2	2	2	2	2
FILTER	TYPE	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED
	MERV RATING	8	8	8	8	8	8	8	8	8	8	8
ELEC. DATA	MINIMUM CIRCUIT AMPACITY	33	33	33	12	15	29	29	29	29	29	29
	MAXIMUM OVERCURRENT PROTECTION	45	45	45	15	20	40	40	40	40	40	40
	VOLTAGE/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3	480/3
	CONTROL SEQUENCE	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT	TSTAT
	PANEL & CIRCUIT	MSB-2	MSB-4	MSB-6	MSB-8	MSB-10	MSB-12	MSB-14	MSB-16	MSB-18	MSB-20	MSB-22
	OVERCURRENT DEVICE	45A-3P CB	45A-3P CB	45A-3P CB	15A-3P CB	20A-3P CB	40A-3P CB	40A-3P CB	40A-3P CB	40A-3P CB	40A-3P CB	40A-3P CB
	WIRE & CONDUIT	(4)#8,#10G.,3/4"C.	(4)#8,#10G.,3/4"C.	(4)#8,#10G.,3/4"C.	(4)#12,#12G.,1/2"C.	(4)#12,#12G.,1/2"C.	(4)#10,#10G.,1/2"C.	(4)#10,#10G.,1/2"C.	(4)#10,#10G.,1/2"C.	(4)#10,#10G.,1/2"C.	(4)#10,#10G.,1/2"C.	(4)#10,#10G.,1/2"C.
	DISCONNECT	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
REFERENCE DRAWING/DETAIL		ME202	ME202	ME202	ME202	ME202	ME202	ME202	ME202	ME202	ME202	ME202
NOTES		1,2,3,4,5,7,8,9,10	1,2,3,4,5,6,8,9,10	1,2,3,4,5,6,8,9	1,2,3,4,5,6,8,9	1,2,3,4,5,6,8,9	1,2,3,4,5,6,8	1,2,3,4,5,6,8	1,2,3,4,5,6,8	1,2,3,4,5,6,8	1,2,3,4,5,6,8	1,2,3,4,5,6,8,9

NOTES:
1: FURNISH UNIT FACTORY WIRED WITH SINGLE POINT ELECTRICAL CONNECTION.
2: FURNISH UNIT WITH GRAVITY RELIEF DAMPER.
3: FURNISH UNIT WITH UNPOWERED CONVENIENCE RECEPTACLE.
4: FURNISH UNIT WITH DRY BULB ECONOMIZER.
5: FURNISH UNIT WITH ROOF CURB.
6: FURNISH UNIT WITH SINGLE ZONE VAV CONTROL.
7: FURNISH UNIT WITH VARIABLE AIR VOLUME CONTROL.
8: FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR INLET FOR UNIT SHUT DOWN. CONNECT TO UNIT CONTROL PANEL AND REMOTE CONTROL STATION.
9: PROVIDE ENVISOR ROOFTOP UNIT SCREENING BY CITY SCAPES ON 3-SIDES OF UNIT. REFER TO ROOF PLAN FOR SIDES THAT REQUIRE SCREENING.
10: PROVIDE WITH POWERED EXHAUST.

FAN SCHEDULE

	DESIGNATION	EF-1	EF-2
	FAN TYPE	ROOF CENTRIFUGAL	ROOF CENTRIFUGAL
	SERVICE	RESTROOM	SERVICE BAY
	MANUFACTURER	GREENHECK	GREENHECK
	MODEL	G-095-VG	GB-330-VG
UNIT DATA	CFM	400	6500
	STATIC PRESSURE	0.5	0.5
	FAN RPM	1388	404
	BRAKE HORSEPOWER	0.08	1.04
	MOTOR HORSEPOWER	1/6	2
	VOLTAGE/PHASE	120/1	480/3
	DRIVE	DIRECT	DIRECT
ELECT. DATA	PANEL & CIRCUIT	P1A-12	HP1-2,4,6
	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.
	OVERCURRENT DEVICE	15A-1P CB	15A-3P CB
	DISCONNECT	30A NF NEMA3R	30A NF NEMA3R
	CONTROL	NOTE 1	NOTE 1
	REFERENCE DRAWING/DETAIL	ME202	ME202
	NOTES	2	2

NOTES:
1: OPERATE DURING OCCUPIED HOURS OF ASSOCIATED ROOFTOP UNIT.
2: PROVIDE WITH FAN SPEED CONTROLLER

UNIT HEATER SCHEDULE - ELECTRIC

	DESIGNATION	UH-1	UH-2
	HEATER TYPE	FAN FORCED	BASEBOARD
	LOCATION	ELECTRICAL	VESTIBULE
	MOUNTING	SUSPENDED	FLOOR
	MANUFACTURER	RAYWALL	INDEECO
	MODEL	F25103N	910U02000
UNIT DATA	CFM	400	---
	FAN DRIVE	DIRECT	---
	HEATER KW	3.3	2
	VOLTAGE/PHASE	208/1	208/1
ELEC./CTRL. DATA	PANEL & CIRCUIT	GP-2,4	P1B-43,45
	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.
	OVERCURRENT DEVICE	20A-2P CB	15A-2P CB
	DISCONNECT	30A NF	NOTE 3
	CONTROL	NOTE 1	NOTE 1
	REFERENCE DRAWING/DETAIL	M101	M101
	REMARKS	2	---

NOTES:
1: FURNISH WITH REMOTE MOUNTED THERMOSTAT.
2: FURNISH UNIT WITH WALL BRACKET FOR VERTICAL MOUNTING.
3: PROVIDE INDUSTRIAL SNAP SWITCH MOUNTED ADJACENT TO UNIT.

DOMESTIC WATER HEATER - ELECTRIC

	DESIGNATION	DWH-1
UNIT DATA	MANUFACTURER	LOCHINVAR
	MODEL	EJJ020HS
	CAPACITY (GALLONS)	20
	RECOVERY @ 100°F RISE (GPH)	10
	OUTLET TEMP. (°F)	110
	NO. OF ELEMENTS	1
	INPUT (KW)	3.5
	VOLTS/PHASE	208/1
ELEC./CONTROL	PANEL & CIRCUIT	P1A-14,16
	WIRE & CONDUIT	(2)#10,#10G.,3/4"C.
	OVERCURRENT DEVICE	25A-2P CB
	DISCONNECT	30A NF
	REFERENCE DRAWING/DETAIL	P101
	REMARKS	1

NOTES:

DOMESTIC WATER HEATER - GAS

	DESIGNATION	DWH-2
UNIT DATA	MANUFACTURER	LOCHINVAR
	MODEL	SWR200N
	SERVICE	DOM. HOT WTR
	CAPACITY (GALLONS)	90
	RECOVERY @ 100°F RISE (GPH)	232
	OUTLET TEMP. (°F)	140
	INPUT (MBH)	199
	EFFICIENCY (%)	96
ELEC./CONTROL	VOLTS/PHASE	120/1
	PANEL & CIRCUIT	P1B-15
	WIRE & CONDUIT	(2)#12,#12G,1/2" C.
	OVERCURRENT DEVICE	20A/1P CB
	DISCONNECT	NOTE 1
	REFERENCE DRAWING/DETAIL	P101
	REMARKS	---

NOTES:
1: PROVIDE MOTOR RATED TOGGLE SWITCH.

PLUMBING FIXTURE SCHEDULE

MARK	MFGR./ MODEL	DESCRIPTION	FITTINGS		NOTE	PIPING CONNECTIONS			
			MANUFACTURER/MODEL	DESCRIPTION		CW	HW	SAN	VENT
WC-1	TOTO CT705EN CHURCH 9500C	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOPSPUD AND FLAT BOLT COVERS. 1.28 GALLON SIPHON JET FLUSHING ACTION. SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	TOTO TET1LA	WATER CLOSET FLUSHOMETER: SENSOR OPERATED, EXPOSED, TOP SPUD, SELF-POWERED, BATTERY BACKUP, MANUAL OVERRIDE, AND ADJUSTABLE TAILPIECE.	---	1-1/4"	---	4"	2"
WC-2	TOTO CT705ELN CHURCH 9500C	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOPSPUD AND FLAT BOLT COVERS. 1.28 GALLON SIPHON JET FLUSHING ACTION. SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	TOTO TET1LA	ADA COMPLIANT WATER CLOSET FLUSHOMETER: SENSOR OPERATED, EXPOSED, TOP SPUD, SELF-POWERED, BATTERY BACKUP, MANUAL OVERRIDE, AND ADJUSTABLE TAILPIECE.	---	1-1/4"	---	4"	2"
U-1	TOTO UT447E WADE	ADA COMPLIANT URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 0.5 GALLON WASHDOWN FLUSHING ACTION. PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.	TOTO TEU1LA	ADA COMPLIANT URINAL FLUSHOMETER: SENSOR OPERATED, EXPOSED, SELF-POWERED, BATTERY BACKUP, MANUAL OVERRIDE, AND ADJUSTABLE TAILPIECE PROVIDE WALL AND SPUD FLANGES.	---	3/4"	---	2"	1-1/2"
L-1	TOTO LT221	ADA COMPLIANT LAVATORY: 17"x13" RECTANGULAR, UNDERMOUNT, WHITE VITREOUS CHINA	TOTO TEL5LI15R	ADA COMPLIANT FAUCET: SENSOR OPERATED, SELF-POWERED, BATTERY BACKUP, SINGLE HOLE, 0.15 GALLON/CYCLE	1,2,3	1/2"	1/2"	2"	1-1/2"
S-1	ELKAY LR3122	SINK: DROP-IN, SINGLE BOWL, 31"x22"x7-5/8", 18-GAUGE TYPE 304 STAINLESS STEEL, FULLY UNDERCOATED.	ELKAY LK810GN08L2	SINK FAUCET: DECK MOUNTED, WRISTBLADE HANDLES, 8" CENTERS, GOOSENECK SPOUT, CHROME FINISH.	1,2,3	1/2"	1/2"	2"	1-1/2"
DF-1	ELKAY LVRCGRNTL8WSK	ADA COMPLIANT DRINKING FOUNTAIN: BI-LEVEL, STAINLESS STEEL FINISH, FRONT PUSH BUTTON, BOTTLE FILLING STATION, FILTERED, PROVIDES 8 GPH OF 50°F WATER AT 80°F INLET AND 90°F AMBIENT.	---	---	---	1/2"	1/2"	2"	1-1/2"
JS-1	STERN WILLIAMS SB-900	JANITORS SINK: 24"x24"x12" ONE PIECE MOLDED STONE MOP BASIN, STAINLESS STEEL CAP, CAST BRASS 3" DRAIN WITH STAINLESS STEEL STRAINER.	STERN WILLIAMS T-10-VB; T-40; BP	MOP SINK FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE, 3/4" HOSE THREAD WITH BUCKET HOOK, CHROME FINISH; STAINLESS STEEL MOP HANGER, 24" LONG WITH (3) RUBBER HOOKS; STAINLESS STEEL SPLASH PANELS					
IMB-1	ISP 9700	ICE MAKER OUTLET BOX: 1/2" QUARTER TURN STOPS, POWDER COAT FINISH	---	---	---	1/2"	---	---	---
WMB-1	ISP 4700	WASHING MACHING BOX: 1/2" QUARTER TURN STOPS, CENTER DRAIN, POWDER COAT FINISH	---	---	---	1/2"	---	1-1/2"	1-1/2"
HB-1	JAY R. SMITH 5673	HOSE BIB: EXPOSED, ANTI-SIPHON, EXTERNAL VACUUM BREAKER WITH 3/4" HOSE CONNECTIONS.	---	---	---	3/4"	---	---	---
WH-1	JAY R. SMITH 5509QT	NON-FREEZE WALL HYDRANT WITH ANTI-SIPHON BACKFLOW PREVENTER ENCLOSED IN FLUSH MOUNTED WALL BOX.	---	---	---	3/4"	---	---	---
RH-1	JAY R. SMITH 5903	DRAINLESS NON-FREEZE ROOF HYDRANT WITH GALVANIZED CASING AND ADJUSTABLE FLOW WHEEL LOCK HANDLE WITH DECK FLANGE AND UNDER DECK CLAMP.	---	---	---	3/4"	---	---	---

NOTES:
1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
3: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	NOTES
SD-1	PRICE SPD	SUPPLY	LAY-IN	YES	STEEL	WHITE	1
SD-2	PRICE 510	SUPPLY	DUCT	YES	STEEL	WHITE	1
SD-3	PRICE SDGE	SUPPLY	DUCT	YES	STEEL	WHITE	1,2
RG-1	PRICE 530	RETURN	SURFACE	NO	STEEL	WHITE	1
EG-1	PRICE 530	EXHAUST	SURFACE	YES	STEEL	WHITE	1

NOTES:
1: REFER TO PLANS FOR SIZES.
2: FURNISH WITH BORDER FOR SPIRAL DUCT MOUNT.

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project number 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex
2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

MECH. AND ELEC. - SCHEDULES AND DETAILS

ME302

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo.
AUTOCAD FILE LOCATION \ NAME: X:\22\2214800\Drawings\01-2214800_ME302.dwg
LAST CORRECTION BY ● DATE ● TIME: JLongenfeld Tuesday, July 19, 2022 3:01:07 PM
PLOTTED BY ● DATE ● TIME: Charles Booty Tuesday, July 19, 2022 3:09:39 PM

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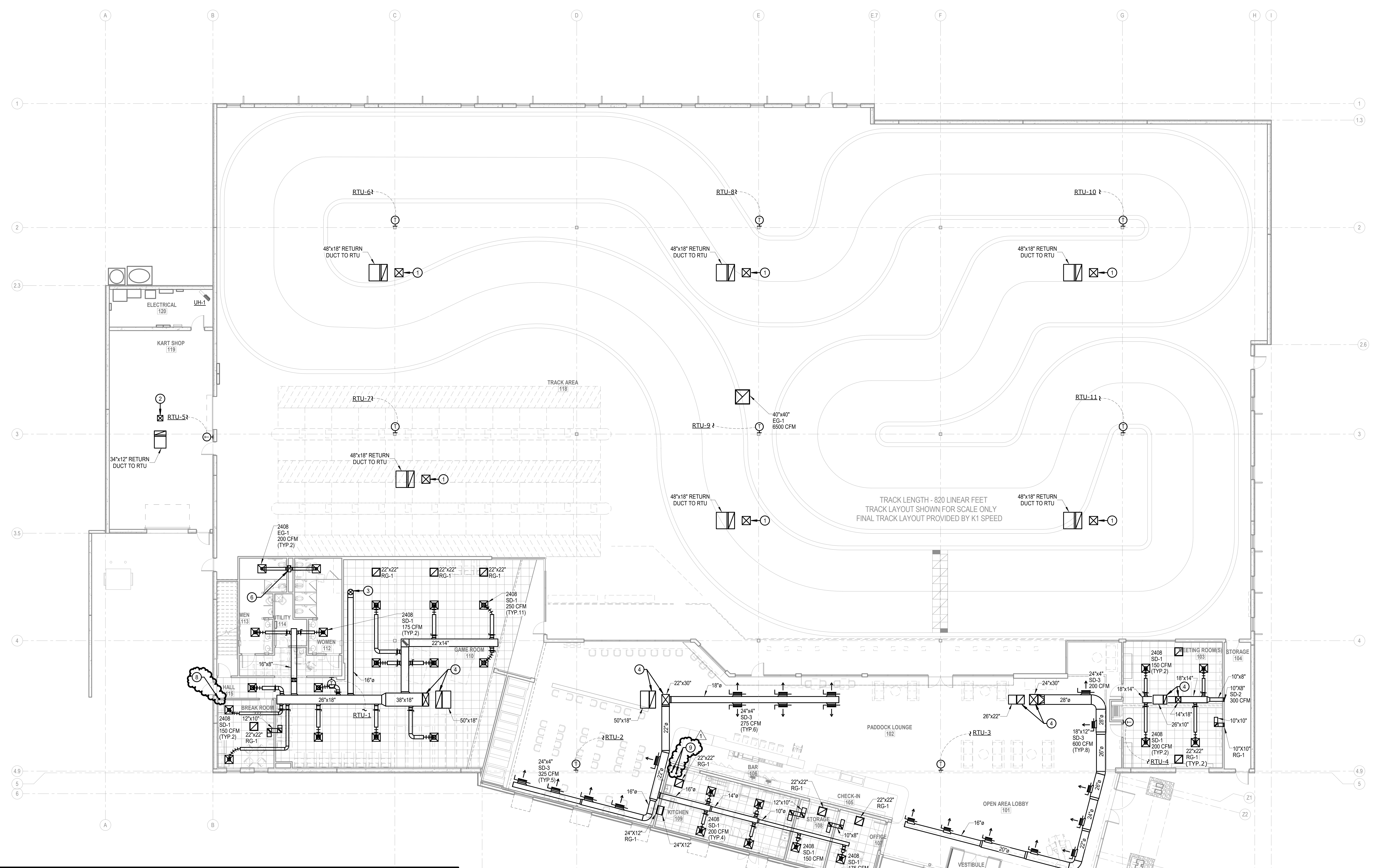
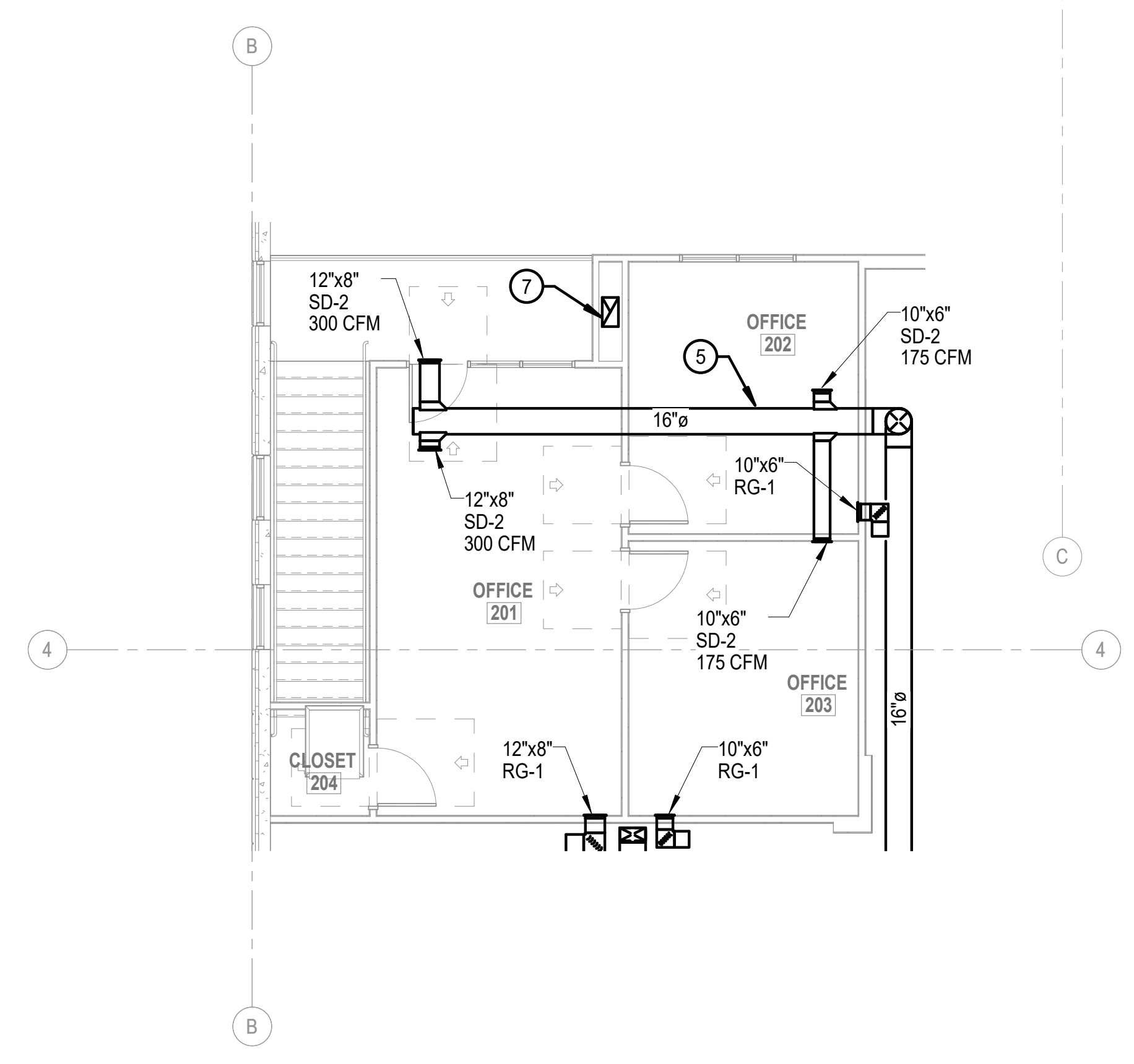
Development Services Department
Lee's Summit, Missouri
09/20/2022



HVAC PLAN - FIRST FLOOR 1

3/32" = 1'-0"



HVAC PLAN - SECOND FLOOR 2

1/8" = 1'-0"

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCULDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO CUTTING FLOORS OR BEARING WALLS.
4. WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLAIRTY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
5. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
6. FURNISH ALL EXPOSED DUCTWORK IN FINSHED SPACES WITH PAINTABLE FINISH.
7. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.

PLAN NOTES:

① 24"X24" SUPPLY AIR DUCT UP TO ROOFTOP UNIT AND DOWN TO SUPPLY PLENUM DIFFUSER. PROVIDE UNITED ENERTECH AFPD-2210-10T OR APPROVED EQUAL.

② 16"X16" SUPPLY AIR DUCT UP TO ROOFTOP UNIT AND DOWN TO SUPPLY PLENUM DIFFUSER. PROVIDE UNITED ENERTECH AFPD-1408-5T OR APPROVED EQUAL.

③ 16"ø SUPPLY AIR DUCT UP TO SECOND FLOOR.

④ SUPPLY AIR DUCT AND RETURN AIR DUCT UP TO ROOFTOP UNIT.

⑤ ROUTE DUCT THROUGH JOISTS.

⑥ 12"x8" EXHAUST AIR DUCT UP TO SECOND FLOOR.

⑦ 12"X8" EXHUAST AIR DUCT DOWN TO FIRST FLOOR AND UP TO EXHAUST FAN.

1

⑧ 4"ø DRYER EXHAUST DOWN TO DRYER BOX MODEL 350 AND UP THRU ROOF.

⑨ 4"ø DOMESTIC WATER HEATER COMBUSTION INTAKE PIPE AND 4"ø DOMESTIC WATER HEATER FLUE VENT PIPE UP THRU ROOF.

SAI
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SBI PROJECT NUMBER 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

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Lee's Summit, MO 64064

#	Revisions:	
1	CITY COMMENTS	08/18/22

Project #: 211107

CONSTRUCTION DOCUMENTS

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HVAC PLAN

M-101

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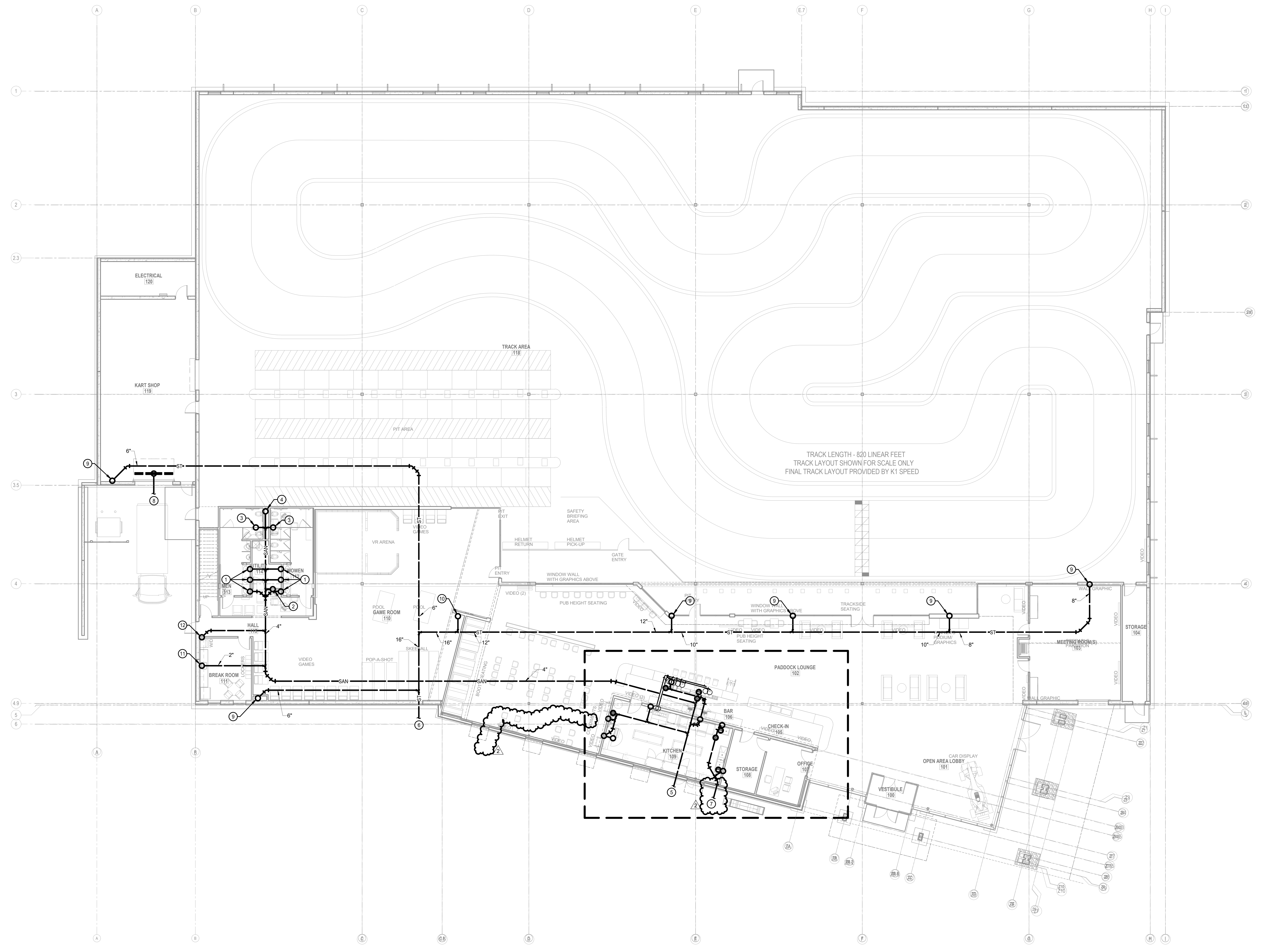
09/20/2022



UNDERSLAB PLUMBING PLAN 1

3/32" = 1'-0"

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. CAREFULLY COORDINATE PIPE ROUTING WITH NEW AND EXISTING STRUCTURE AS WELL AS ALL OTHER TRADES.
3. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
4. REFER TO RISER DIAGRAM FOR ADDITIONAL PLUMBING INFORMATION.

PLAN NOTES:

① 2" SAN UP TO LAVATORY
② 2" SAN UP TO DRINKING FOUNTAIN
③ 2" SAN UP TO FLOOR DRAIN
④ 4" SAN UP TO CHASE SERVING WATER CLOSETS
⑤ 4" SANITARY SEWER SERVICE. REFER TO SITE PLAN FOR CONTINUATION.
⑥ 16" STORM SEWER SERVICE. REFER TO SITE PLAN FOR CONTINUATION.
⑦ 4" GREASE TO GREASE INTERCEPTOR. REFER TO SITE PLAN FOR CONTINUATION.
⑧ 4" SAND/OIL TO SAND/OIL INTERCEPTOR. REFER TO SITE PLAN FOR CONTINUATION.
⑨ 6" ST UP THRU FLOOR IN WALL/CHASE.
⑩ 8" ST UP THRU FLOOR IN WALL/CHASE.
⑪ 2" SAN UP TO SINK.
⑫ 2" SAN UP TO WASHING MACHINE BOX.

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2	CITY COMMENTS	09/01/22

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CONSTRUCTION DOCUMENTS

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UNDERSLAB PLUMBING PLAN

P-100

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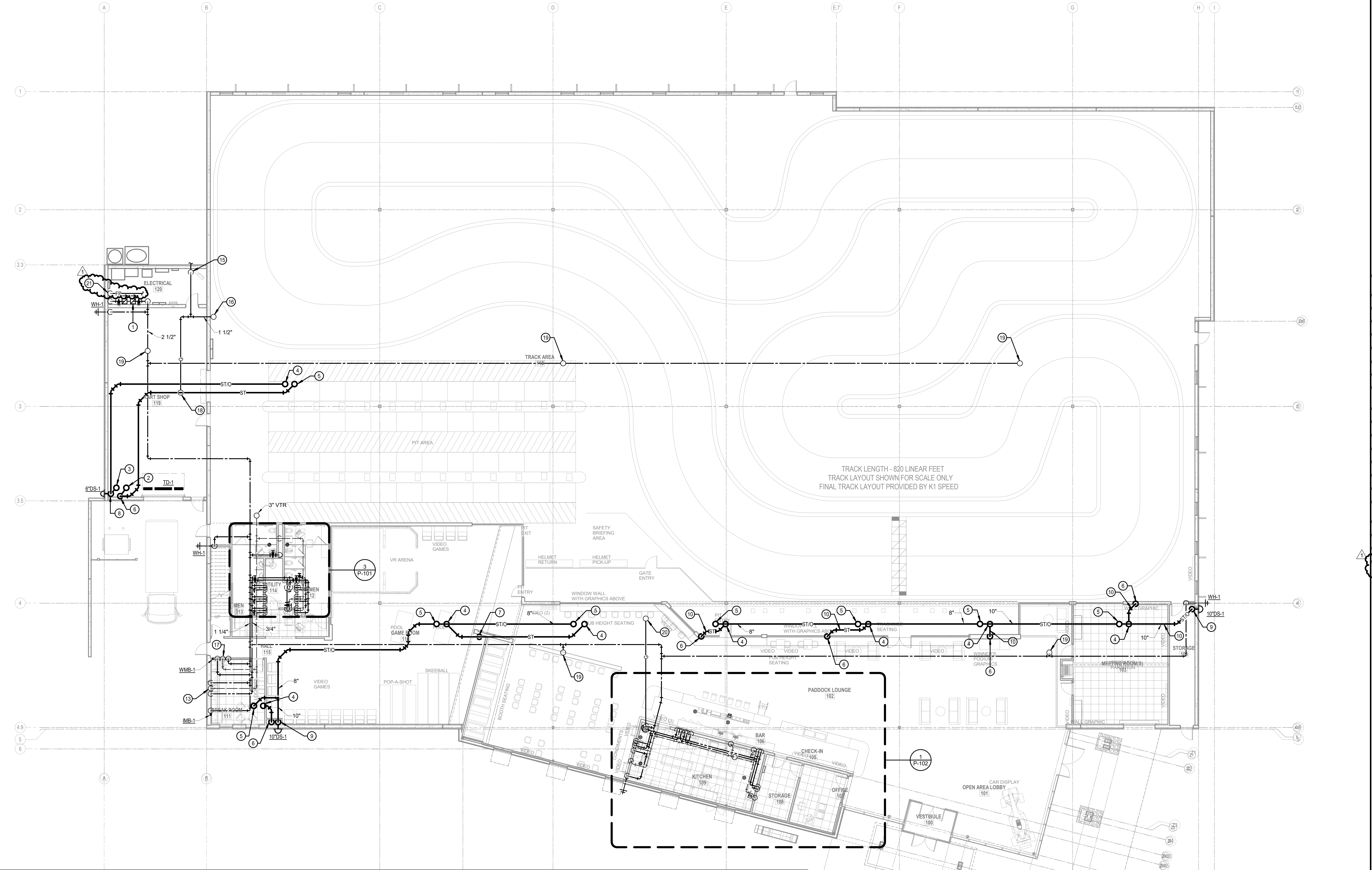
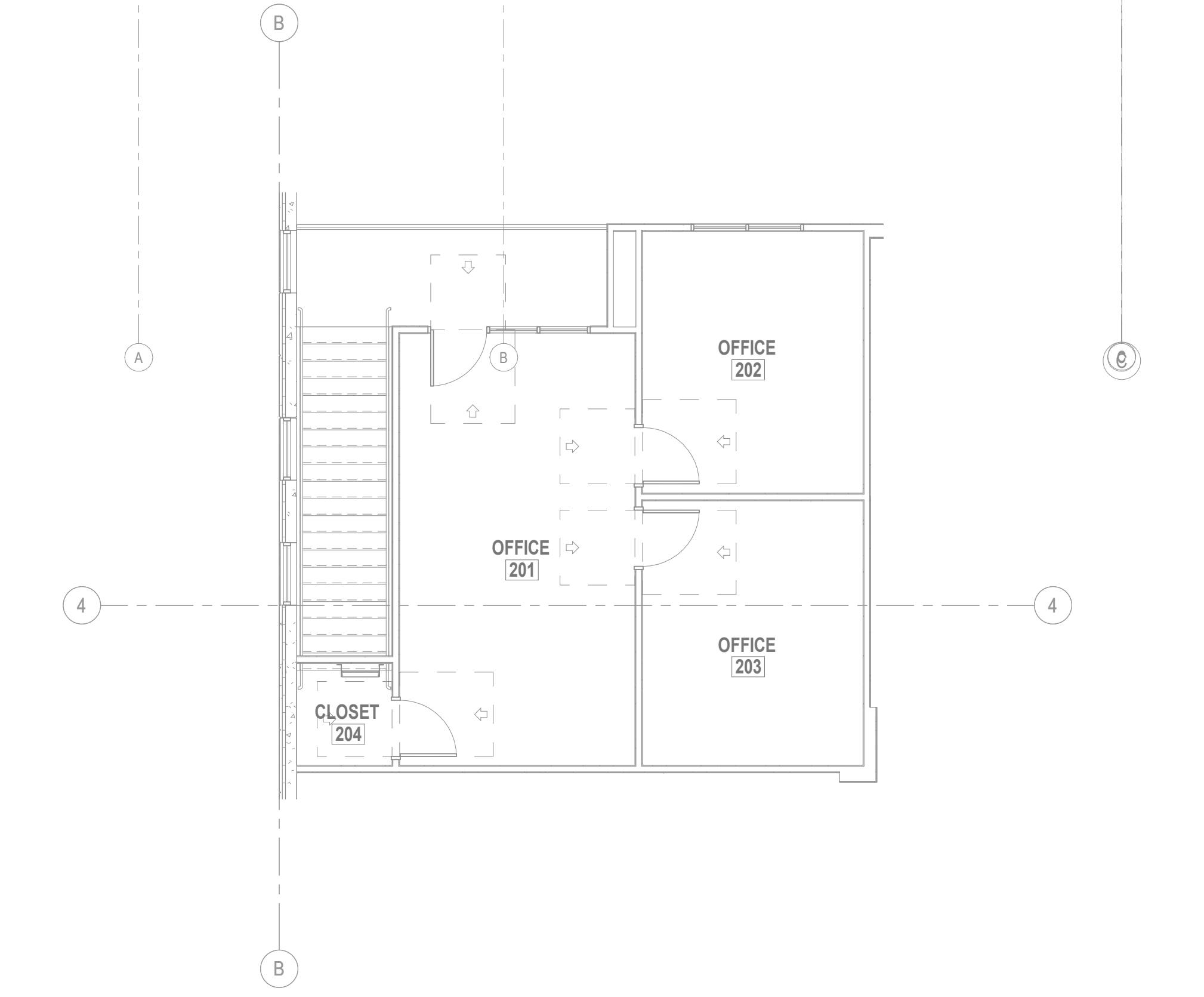
09/20/2022



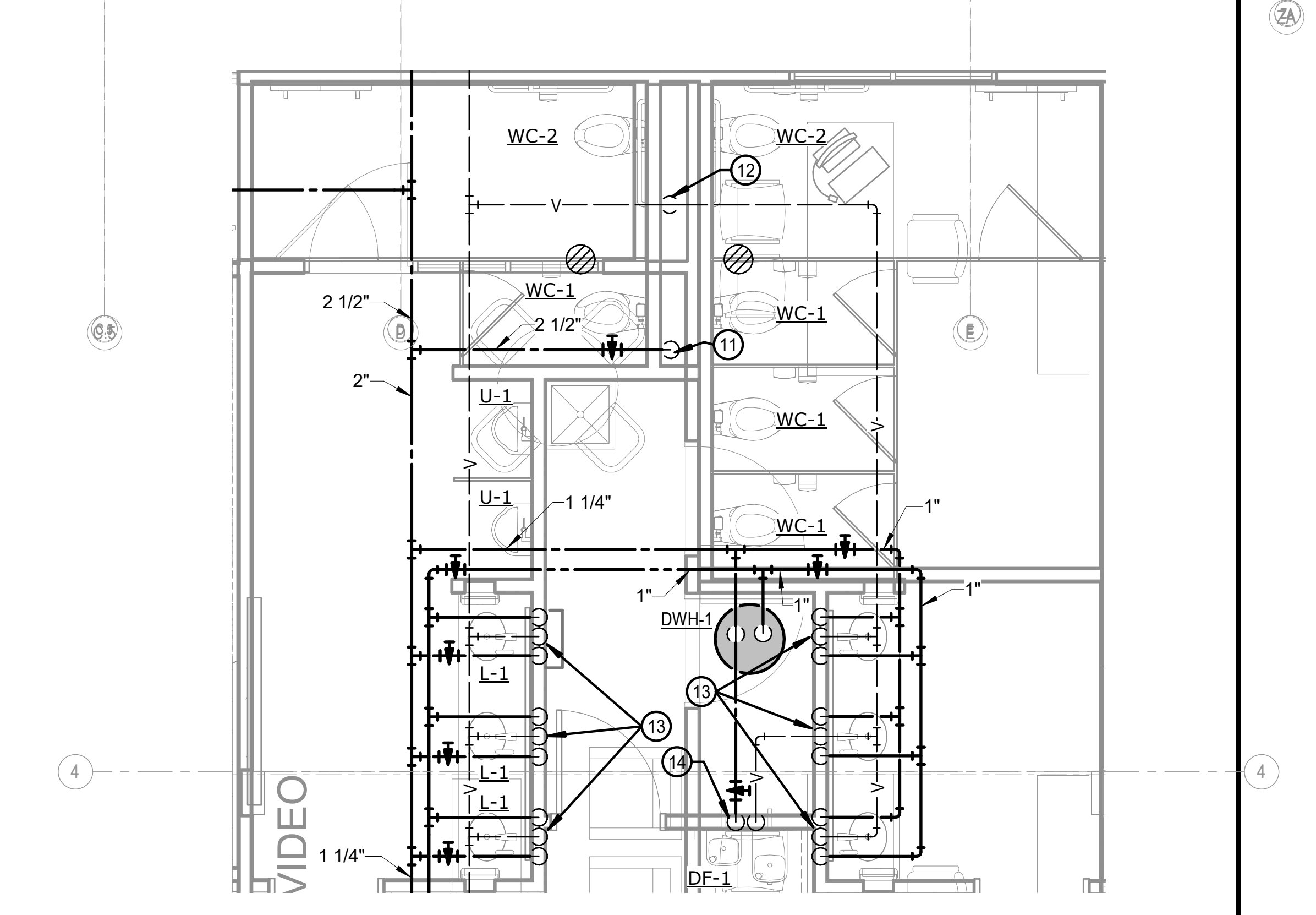
PLUMBING PLAN - FIRST FLOOR 1

3/32" = 1'-0"



PLUMBING PLAN - SECOND FLOOR 2

1/8" = 1'-0"



PLUMBING - ENLARGED PLAN - 112 WOMEN & 113 MEN 3

1/4" = 1'-0"

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. CAREFULLY COORDINATE PIPE ROUTING WITH NEW AND EXISTING STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
3. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
4. PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUE FOR SHUT OFF VALVES.
5. AVOID ROUTING ANY PIPING THROUGH IT ROOMS OR ELECTRIC ROOMS. IN THE EVENT IT IS ABSOLUTELY NECESSARY, COORDINATE THE EXACT LOCATION SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS OR EQUIPMENT.
6. REFER TO RISER DIAGRAM FOR ADDITIONAL PLUMBING INFORMATION.
7. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.

PLAN NOTES:

① 2-1/2" DOMESTIC WATER SERVICE ENTRANCE. REFER TO DETAIL.
② 4" ST UP TO ROOF DRAIN.
③ 4" ST/O UP TO ROOF DRAIN.
④ 6" ST UP TO ROOF DRAIN.
⑤ 6" ST/O UP TO ROOF DRAIN.
⑥ 6" ST DOWN THRU FLOOR IN WALL/CHASE.
⑦ 8" ST DOWN THRU FLOOR IN WALL/CHASE.
⑧ 6" ST/O DOWN TO DOWNSPOUT NOZZLE AT 18" ABOVE GRADE.
⑨ 10" ST/O DOWN TO DOWNSPOUT NOZZLE AT 18" ABOVE GRADE.
⑩ SLOPE STORM PIPING AT 1/4" PER FOOT.
⑪ 2" CW DOWN IN CHASE TO SERVE PLUMBING FIXTURES.
⑫ 3" V DOWN IN CHASE TO SERVE PLUMBING FIXTURES.
⑬ 1/2" CW, 1/2" HW, AND 1-1/2" V DOWN TO LAVATORY/SINK.
⑭ 1/2" CW AND 1-1/2" V DOWN TO DRINKING FOUNTAIN.
⑮ 1-1/2" G DOWN INSIDE BUILDING AND OUT TO GAS METER.
⑯ 1-1/2" G UP THRU ROOF.
⑰ 1/2' CW, 1/2" HW, AND 1-1/2" V DOWN TO WASHING MACHINE BOX.
⑱ 3/4" G UP THRU ROOF.
⑲ 3/4" CW UP TO ROOF HYDRANT.
⑳ 1" G UP THRU ROOF.
㉑ 6" FIRE PROTECTION SERVICE ENTRANCE WITH VERTICAL DOUBLE-CHECK BACKFLOW PREVENTER. REFER TO DETAIL.

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SBI PROJECT NUMBER 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT

Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:	
1	CITY COMMENTS	08/18/22

Project #: 211107

CONSTRUCTION DOCUMENTS

July 19, 2022

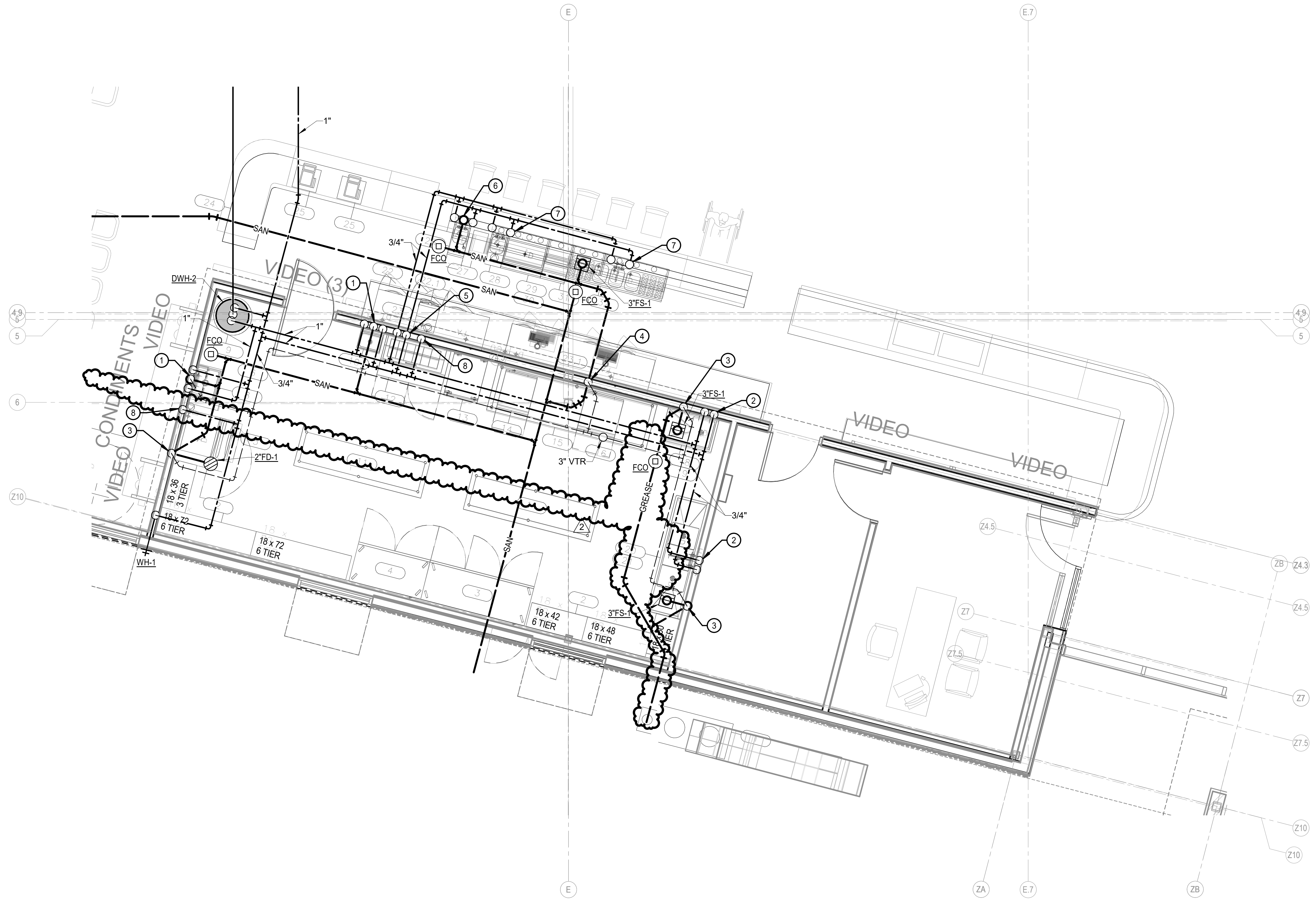
PLUMBING PLAN

P-101

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

Item No	Qty	By	Equipment Category
1	1	GC	Gease Interceptor
2	Lot	KEC	25 Lin. Ft. 6 Tier Storage Shelving
3	1	KEC	Freezer, Reach-In
4	1	KEC	Refrigerator, Reach-In
5	1	KEC	Ice Maker w/ Bin
5			Continued
6	1	KEC	Sink, Mop
7	1	KEC	Faucet, Service Sink
8	1	KEC	Shelf, Mop & Broom Rack
9	1	GC	74 Gal. Comm. Water Heater
10	1	KEC	Hand Sink w/ Soap & Towel Disp.
11	2	KEC	Table, Work
12	1	KEC	Refrigerator, Sandwich/Salad Prep
13	1	KEC	Cabinet, Holding/Proofing
14	1	KEC	Oven, Microwave/Convection, Combi
15	1	KEC	Table, Work
16	1	KEC	Oven, Microwave/Convection, Combi
18	1	KEC	Sink, Scullery, 1 Compartment
19	1	KEC	Faucet, Backsplash Mount
20	1	KEC	Sink, Scullery, 3 Compartments
21	1	KEC	Faucet, Backsplash Mount
22	Lot	GC	Back Counter
22.1	1	KEC	Dispenser, Liquid Coffee Concentrate
23	1	KEC	Refrigerator, Reach-In
23.1	1	KEC	Underbar Refrigeration
24	Lot	GC	Front Counter / Bar Top & Die Wall
25	Lot	OW	POS System
26	1	KEC	Handsink w/Soap & Towel Dispenser
27	1	KEC	Slim Jim trash
28	1	KEC	Underbar Blender Station
29	1	KEC	Underbar Ice Chest
30	1	KEC	Underbar Speed Rail
31	1	KEC	Underbar Liquor Display
32	1	KEc	Underbar Sink



ENLARGED PLUMBING KITCHEN PLAN 1

1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO KITCHEN EQUIPMENT SCHEDULE ON SHEET 'K3' FOR ADDITIONAL ROUGH-IN INFORMATION.

PLAN NOTES:

① 1/2" CW, 1/2" HW, AND 1-1/2" V DOWN TO KITCHEN EQUIPMENT. 2" SAN UP TO KITCHEN EUQIPMENT.

② 1/2" CW AND 1/2" HW DOWN TO KITCHEN EQUIPMENT.

③ 1-1/2" V DOWN TO FLOOR DRAIN.

④ 1-1/2" V DOWN TO 4" SAN.

⑤ 3/4" CW AND 3/4" HW DOWN IN WALL AND ROUTE UNDERSLAB TO ISLAND BAR FIXTURES.

⑥ 1/2" CW, 1/2" HW, AND 2" SAN UP TO KITCHEN EQUIPMENT.

⑦ 1/2" CW AND 1/2" HW UP TO KITCHEN EQUIPMENT.

⑧ 1/2" CW DOWN TO KITCHEN EQUIPMENT.

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#		
2	CITY COMMENTS	09/01/22
3	GENERAL REVISIONS	XX/XX/XX

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CONSTRUCTION
DOCUMENTS

July 19, 2022

ENLARGED
PLUMBING KITCHEN
PLAN

P-102

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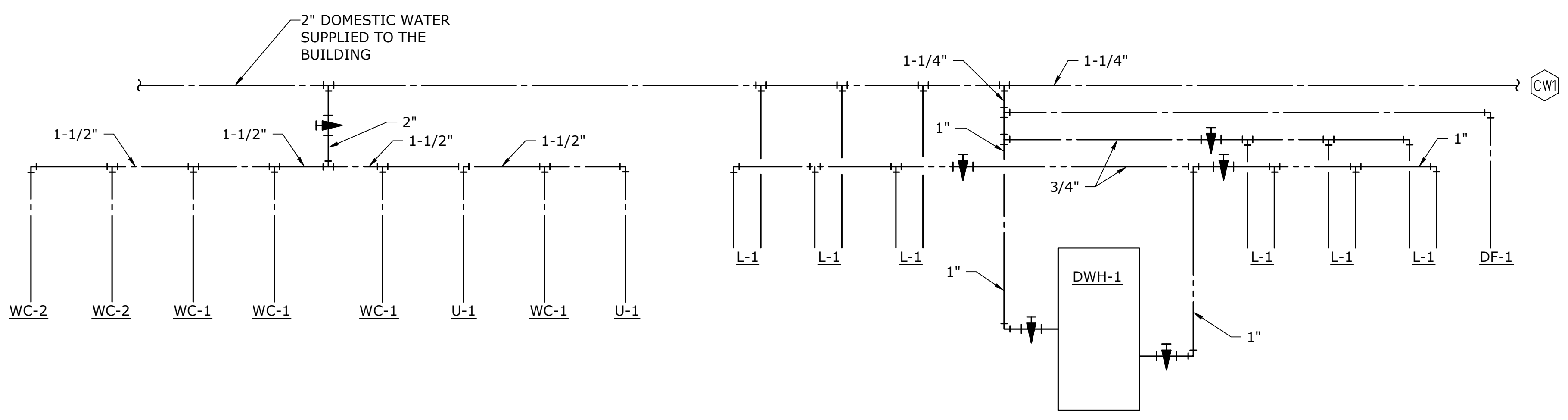
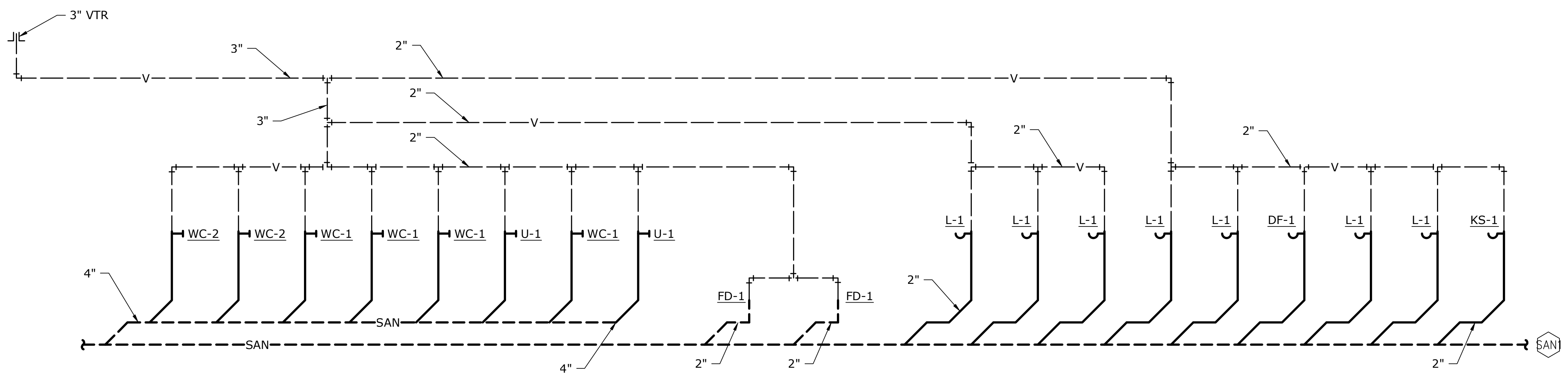


DOMESTIC WATER RISER - RESTROOM
NOT TO SCALE



PLUMBING RISER - RESTROOM
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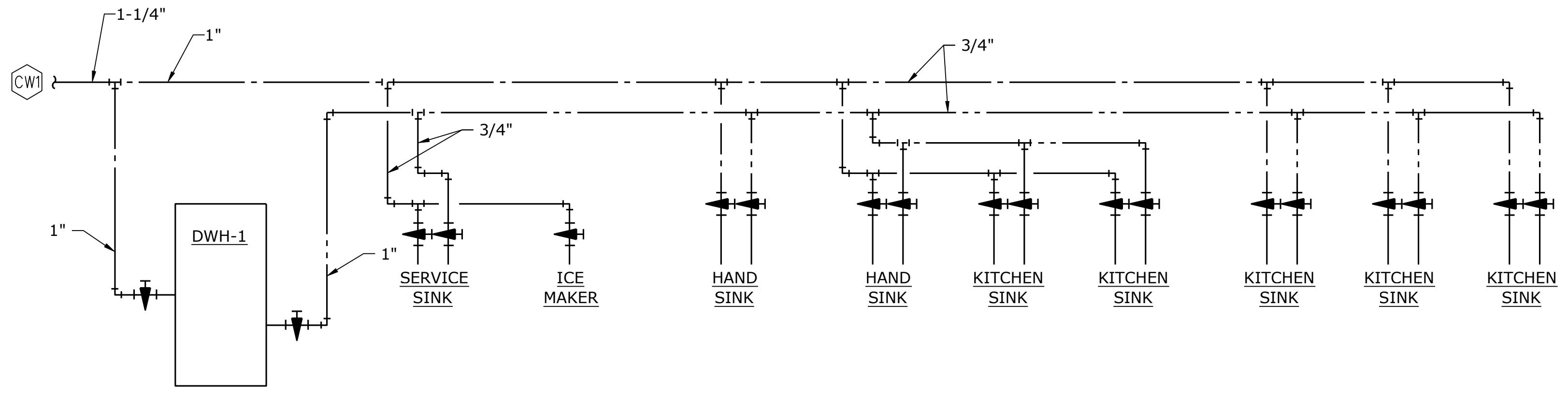
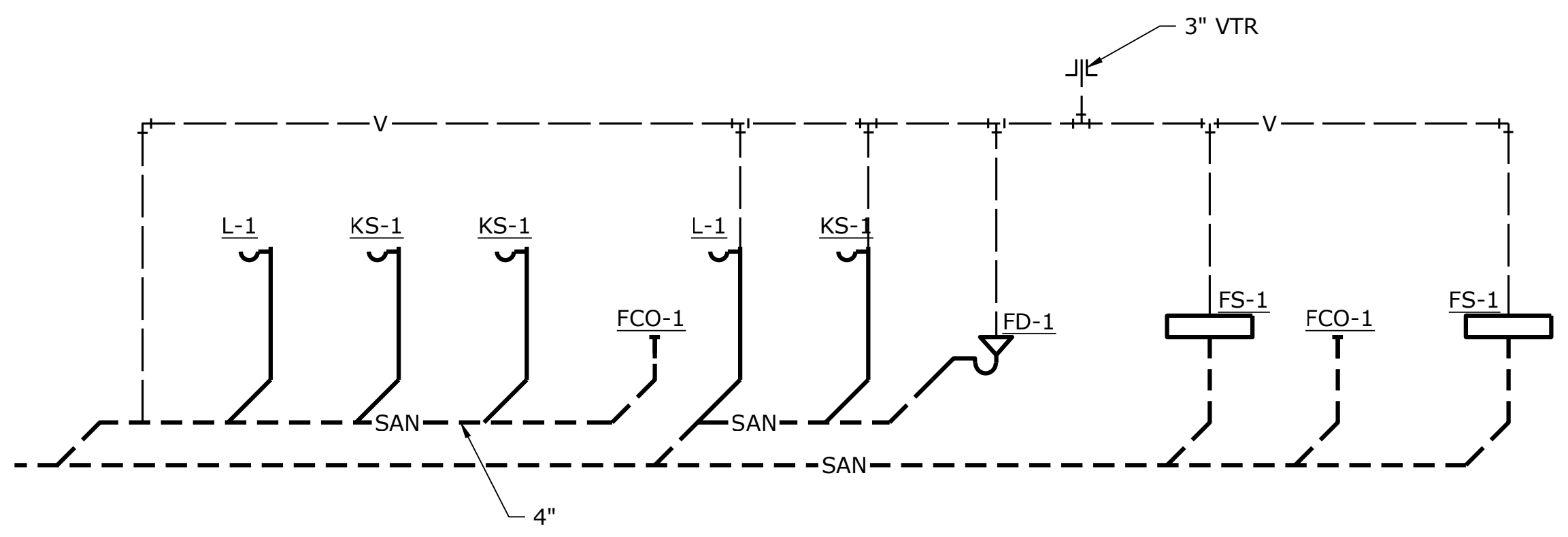


DOMESTIC WATER RISER - KITCHEN
NOT TO SCALE



PLUMBING RISER - KITCHEN
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CONSTRUCTION DOCUMENTS
July 19, 2022

PLUMBING - RISER DIAGRAM

P201

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\22148\2214800\Drawings\05-2214800_P-201.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Kmcvey Tuesday, July 19, 2022 11:13:41 AM
PLOTTED BY ◆ DATE ◆ TIME: Charles Booty Tuesday, July 19, 2022 3:10:07 PM

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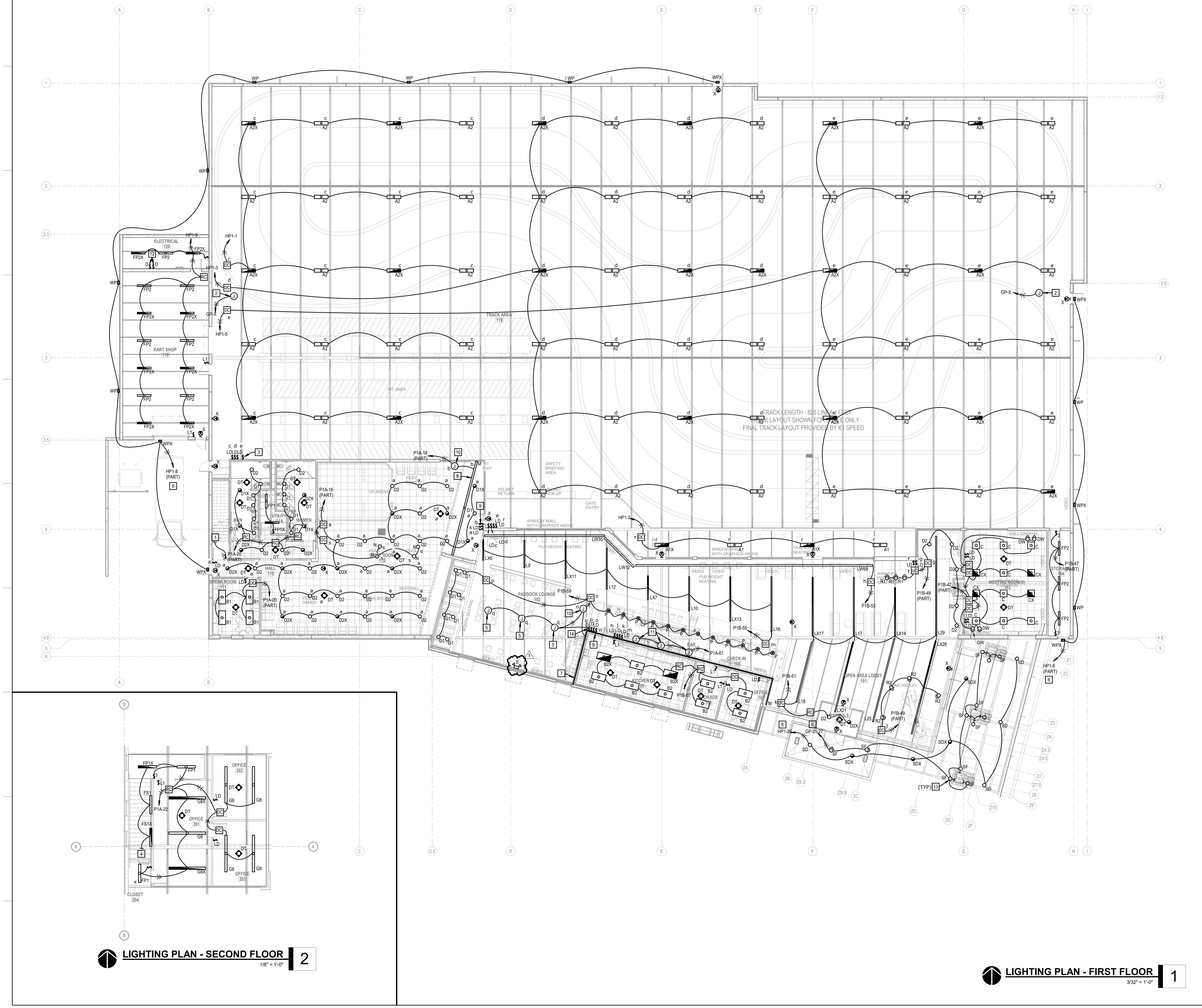

LIGHTING PLAN - SECOND FLOOR 2
1/8" = 1'-0"

LIGHTING PLAN - FIRST FLOOR 1
3/32" = 1'-0"

GENERAL NOTES:

1. CIRCUIT ALL EMERGENCY DRIVERS AND EXIT SIGNS WITH AN UNSWITCHED HOT CONDUCTOR FROM LOCAL ROOM CIRCUIT.
2. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT MOUNTING HEIGHTS/LOCATIONS FOR EXTERIOR BUILDING LIGHTING.
3. PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSOR AND TO CORRESPONDING POWER PACKS WITHIN EACH ROOM UNLESS NOTED OTHERWISE. REFER TO WIRING DIAGRAMS ON DETAILS SHEET FOR MORE INFORMATION.
4. REFER TO ARCHITECTURAL FLOORING PLANS AND REFLECTED CEILING PLANS OF EXACT MOUNTING LOCATIONS OF ALL LIGHT FIXTURES AND WALL MOUNTED ELECTRICAL DEVICES.
5. PATCH AND REPAIR ALL OPENINGS CREATED THAT PENETRATE FIRE RATED WALLS, FLOORS AND CEILING USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE SURFACE PENETRATED.
6. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   0-100' = #12 AWG
   101'-150' = #10 AWG
   151'-250' = #8 AWG

   GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.

PLAN NOTES:

1 REFER TO DETAIL 2 SECOND FLOOR PLAN THIS SHEET FOR CONTINUATION OF LIGHTING UP STAIRS. CONNECT TO LIGHTING FOR STAIRS.

2 PROVIDE JUNCTION BOX FOR POWER TO TRACK RGB STRIP LIGHTING BY OTHERS. PROVIDE ADDITIONAL JUNCTION BOXES AND CIRCUITS AS REQUIRED BY TRACK LIGHTING PROVIDER. COORDINATE ALL REQUIREMENTS PRIOR TO INSTALL.

3 TRACK RGB STRIP LIGHTING CONTROLS TO BE LOCATED ON THIS WALL. COORDINATE EXACT LOCATION WITH TRACK STRIP LIGHTING PROVIDER PRIOR TO ROUGH-IN.

4 CONTINUATION TO THREE WAY SWITCH DOWN STAIRS.

5 PROVIDE JUNCTION BOX FOR POWER TO PENDANT FIXTURE PROVIDED BY OWNER. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

6 ROUTE CIRCUIT THROUGH LIGHTING RELAY PANEL 'LRCP'. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.

7 MOUNT TAPE FIXTURE UNDER SMALL LIP STICKING OUT OF THE WALL. COORDINATE WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND INSTALL.

8 TAPE FIXTURE TO BE MOUNTED ON TOP OF SOFFIT IN OPEN SPACE. COORDINATE WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND INSTALL.

9 DMX CONTROLLER LOCATION. REFER TO FIXTURE SCHEDULE TYPE 'M' FOR ADDITIONAL INFORMATION.

10 PROVIDE NECESSARY POWER SUPPLY PER LENGTH OF FIXTURE. REFER TO FIXTURE SCHEDULE TYPE 'M' FOR ADDITIONAL INFORMATION. POWER SUPPLY TO BE DMX COMPATIBLE FOR DMX CONTROL.

11 PROVIDE JUNCTION BOX FOR SHELF LIGHTING BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SHELF LIGHTING PROVIDER AND ARCHITEECT PRIOR TO ROUGH-IN. PROVIDE SWITCH AS NECESSARY.

12 PROVIDE DALI DIMMERS FOR DIMMING/OVERRIDE SWITCHING OF EXTERIOR FIXTURES. REFER TO RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION.

13 AIM FLOOD FIXTURES AT CEILING TO LIGHT AS EVENLY AS POSSIBLE.

14 PROVIDE AND COORDINATE A DIMMER SWITCH COMPATIBLE WITH FIXTURE PROVIDED BY OWNER. IF FIXTURE IS NOT DIMMABLE, PROVIDE NORMAL ON/OFF SWITCH. IF DIMMABLE, MAY LOOK INTO OPTION OF PROVIDING DLM UNIVERSAL DIMMING CONTROLLER AND USE THE SAME WATT STOPPER DIMMERS WITH 'LD' SHOWN ON PLANS AND SCHEDULES.

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1	CITY COMMENTS	08/18/22

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CONSTRUCTION DOCUMENTS

July 19, 2022

LIGHTING PLAN

E-101

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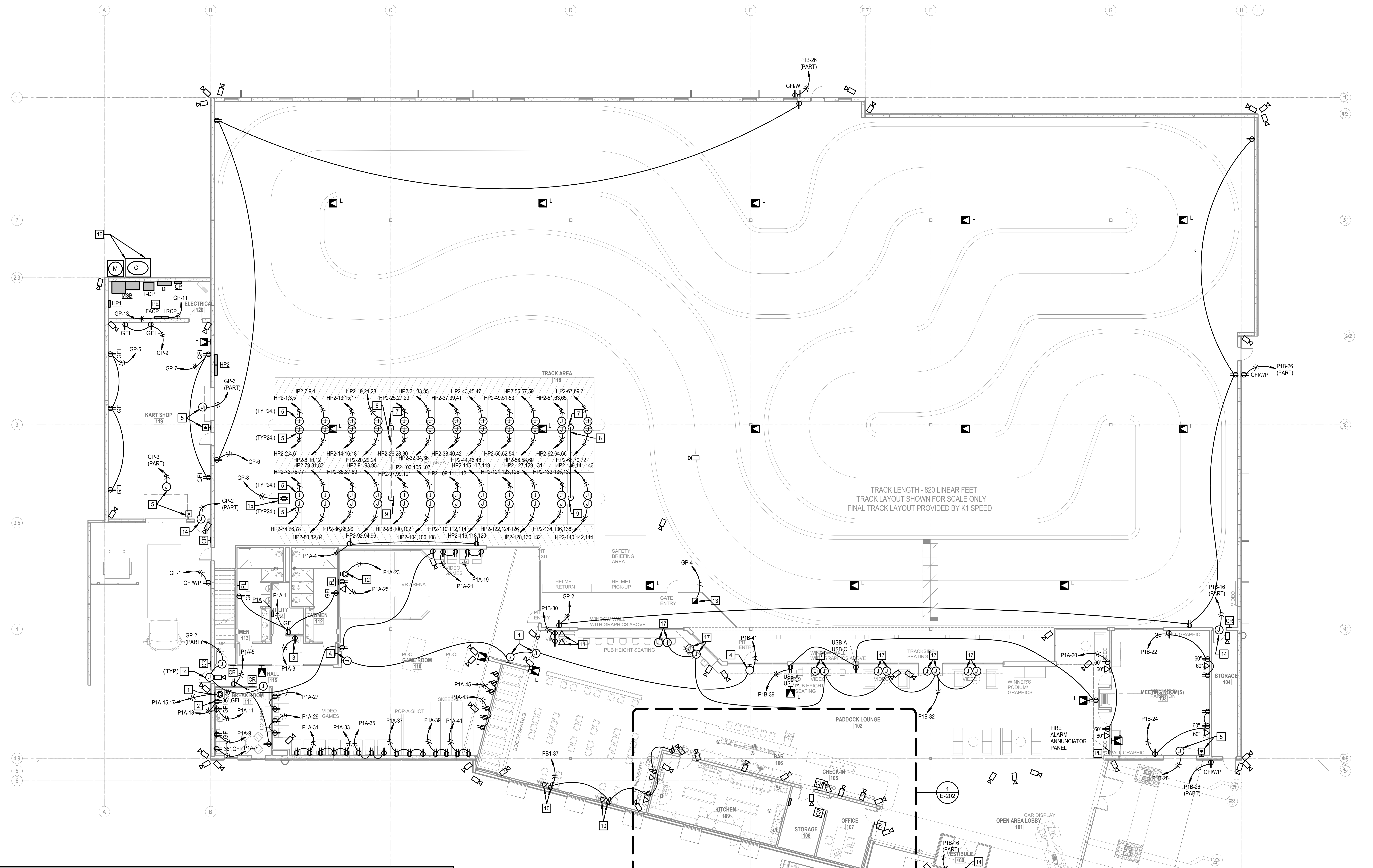
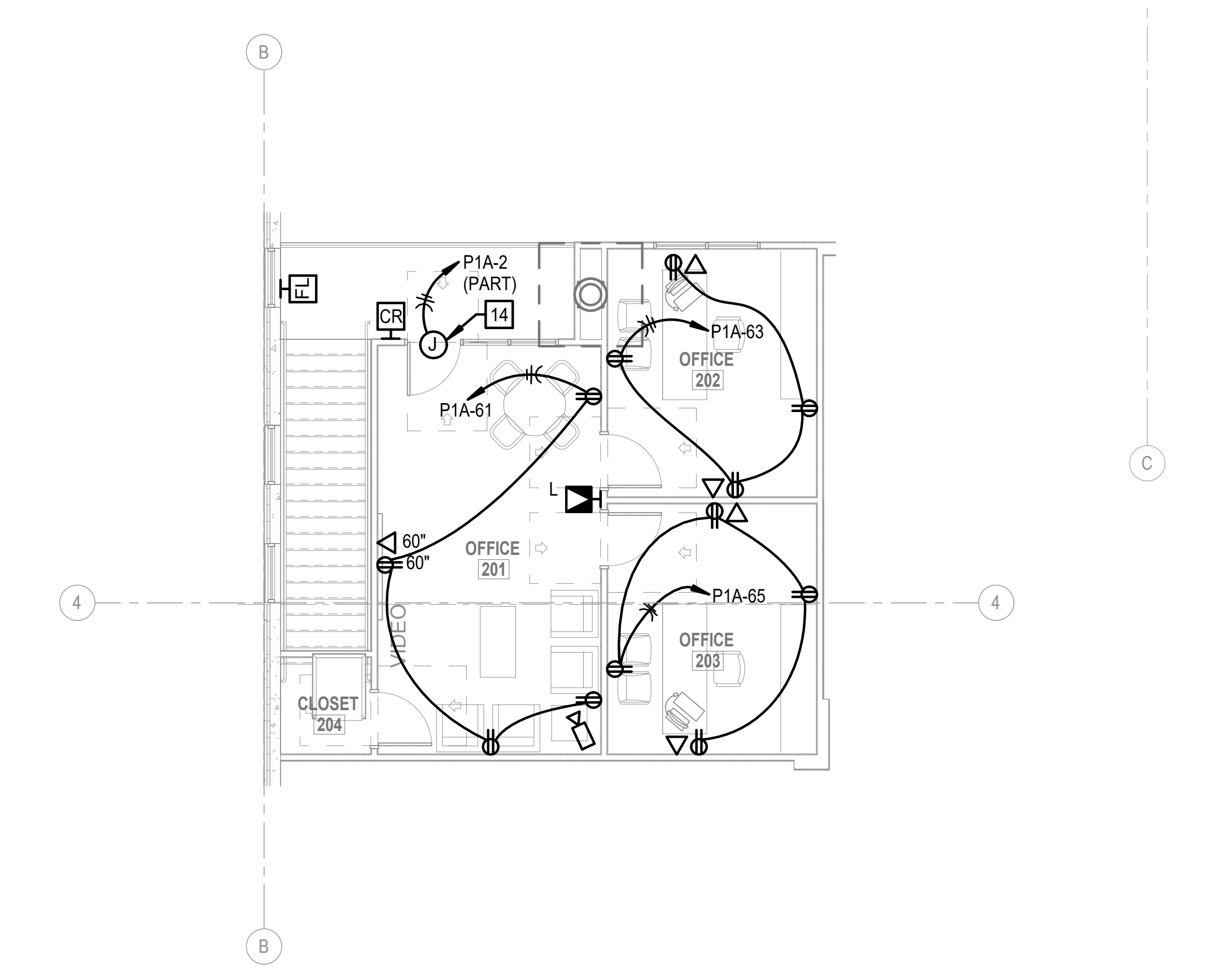
09/20/2022



POWER PLAN - FIRST FLOOR
1
3/32" = 1'-0"



POWER PLAN - SECOND FLOOR
2
1/8" = 1'-0"

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, SERVICES AND EQUIPMENT SHOWN HALF TONE ARE EXISTING TO REMAIN, AND FULL TONE AND NEW WORK.

2. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF ALL ELECTRICAL DEVICES.

3. SPECIAL MOUNTING HEIGHTS NOTED ON PLANS ARE MEASURED TO THE CENTER OF THE JUNCTION BOX. REFER TO MOUNTING HEIGHT DETAIL ON SHEET E300 FOR TYPICAL MOUNTING HEIGHTS.

4. SEAL ALL PENETRATIONS AS REQUIRED TO MAINTAIN ALL RATINGS FOR ALL FIRE RESISTANCE - RATED CONSTRUCTIONS. REFER TO ARCHITECTURAL CODE PLANS FOR RATED WALL AND FLOOR LOCATIONS.

5. PROVIDE A 1/2" CONDUIT FROM ALL THERMOSTATS UP TO ABOVE CEILING OR TO ASSOCIATED HVAC EQUIPMENT WHERE THERE IS NO CEILING. REFER TO MECHANICAL PLANS FOR LOCATIONS.

6. THE MINIMUM SIZE CONDUIT FOR ALL LOW VOLTAGE DEVICES SHALL BE 1", UNLESS OTHERWISE NOTED. ALL LOW VOLTAGE CONDUIT SHALL BE INSTALLED WITH NYLON PULL STRING. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE.

0'-100' = #12 AWG
101'-150' = #10AWG
151'-250' = #8 AWG
250'-400' = #6 AWG

GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.

7. ROUTE (1) 3/4" CONDUIT TO CAMERA. IF CAMERA IS IN AN INACCESSIBLE CEILING, LOCATE TO NEAREST ACCESSIBLE CEILING LOCATION. COORDINATE EXACT REQUIREMENT WITH SECURITY CAMERA VENDOR AS NECESSARY FOR ROUTING.

PLAN NOTES:

1 PROVIDE NEMA L14-30R FOR COMBINATION WASHER/DRYER. PROVIDE (3)#10,#10G., IN 1/2"C. CONDUIT. COORDINATE EXACT OUTLET REQUIREMENT WITH FINAL WASHER/DRYER EQUIPMENT PRIOR TO ROUGH-IN. COORDINATE FINAL EQUIPMENT WITH OWNER FOR EXACT ELECTRICAL REQUIREMENTS. ALSO REFER TO PLAN NOTE 2.

2 COORDINATE EXACT OUTLET REQUIREMENT WITH FINAL WASHER/DRYER EQUIPMENT PRIOR TO ROUGH-IN. THE DUPLEX RECEPTACLE MAY NOT BE REQUIRED DEPENDING ON EQUIPMENT. VERIFY WITH OWNER IF THEY WANT THIS RECEPTACLE BECOMES UNNECESSARY.

3 PROVIDE GFCI BREAKER AT PANEL. REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

4 PROVIDE ELECTRIC CONNECTION TO POWERED SIGNAGE. COORDINATE EXACT REQUIREMENT WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN.

5 PROVIDE ELECTRIC CONNECTION TO POWERED OVERHEAD DOOR. COORDINATE EXACT EQUIPMENT AND ELECTRICAL REQUIERMENT WITH OVERHEAD DOOR BY OTHERS PRIOR TO ROUGH-IN. COORDINATE EXACT TYPE AND LOCATION OF PUSH BUTTON OR CONTROL SWITCH WITH MANUFACTURER AND ARCHITECT.

6 REFER TO PLAN NOTE 7,8,9 FOR ROUTING OF POWER FOR KART CHARGERS. PROVIDE (4) #12,#12G., IN 3/4"C. COORDINATE EXACT METHOD OF INSTALLATION PER MANUFACTURER RECOMMENDATIONS AND BEST METHODS FOR ROUTING POWER IN FIELD.

7 POWER FOR CHARGERS TO BE ROUTED DOWN/UP THIS POLE STRUCTURE.

8 CONDUCTORS TO BE ROUTED BELOW CONCRETE AND OVER TO CENTER KART CHARGING AREA.

9 CONDUCTORS TO STUB UP IN THIS AREA FOR KART CHARGERS.

10 DUPLEX AND DATA ROUGH-IN FOR TV LOCATION. COORDINATE EXACT LOCATION AND HEIGHT OF TV WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH-IN.

11 STACKED TV OUTLET LOCATION. COORDINATE EXACT HEIGHT AND LOCATION OF TV WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH-IN.

12 PROVIDE DEDICATED NEMA L10-20R LOCKING RECEPTACLE FOR OMNI ARENA VR GAME SYSTEM. COORDINATE AND REFER TO VIRTUIX ISNTALLATION MANUAL PRIOR TO INSTALLATION & ROUGH-IN FOR OMNI ARENA SYSTEM.

13 PROVIDE 2-GANG FLOOR BOX WITH (1) DUPLEX AND (1) DATA OUTLET. PROVIDE 1" CONDUIT FOR DATA. BASIS OF DESIGN: HUBELL CFB2G25R SERIES OR APPROVED EQUAL. COORDINATE EXACT FLOOR BOX REQUIREMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. FLOOR BOX LOCATION FOR CHECK-IN/CONTROL KIOSK. COORDINATE EXACT LOCATION WITH KIOSK PRIOR TO ROUGH-IN.

14 INSTALL (1) 1/2" CONDUIT FROM DOOR FRAME UP TO ABOVE NEAREST ACESSIBLE CEILING FOR ELECTRIC DOOR LOCK CABLING. COORDINATE WITH DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

15 PROVIDE JUNCTION BOX MOUNTED RECEPTACLE NEAR CHARGING STATIONS FOR AIR COMPRESSOR. COORDINATE EXACT LOCATION OF AIR COMPRESSOR AND RECEPTACLE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

16 ELECTRICAL METER AND C.T CABINET ENCLOSURE. REFER TO ONE-LINE DIAGRAM AND INSTALL PER LOCAL UTILITY STANDARDS.

17 PROVIDE DATA OUTLET ROUGH-IN AND RECEPTACLE OR POWER PROVISIONS FOR TV LOCATED BELOW/AROUND SOFFIT. COORDINATE EXACT LOCATION & REQUIREMENTS AND MOUNTING WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

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CONSTRUCTION DOCUMENTS

July 19, 2022

POWER PLAN

E-201

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

GENERAL NOTES:

1. REFER TO FINAL KITCHEN CONSULTANT DRAWINGS PRIOR TO ROUGH-IN OF ANY EQUIPMENT. ALL FINAL HEIGHT AND LOCATION TO REFERENCE KITCHEN CONSULTANT PLANS. REFER TO EQUIPMENT SCHEDULE ON SHEET K-3 FOR ADDITIONAL INFORMATION.
2. REFER TO SHEET E-201 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1 PROVIDE NEMA 6-50R FOR OVEN. PROVIDE (3)#6,#10G., IN 3/4"CONDUIT.

2 REFER TO SHEET E201 FOR CONTINUATION.

3 DUPLEX AND DATA ROUGH-IN FOR TV LOCATION. COORDINATE EXACT LOCATION AND HEIGHT OF TV WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH-IN.

4 MOUNT RECEPTACLES HORIZONTALLY ABOVE COUNTER AND BELOW DISPLAY. COORDINATE EXACT EELVATIONS WITH ARCHITECTURAL DRAWINGS.

5 OUTLETS FOR CHECK-IN LOCATION. COORDINATE EXACT LOCATION OF SYSTEM INSTALLED WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. BASIS OF DESIGN: ARCHITECT WILL PROVIDE GROMMETS FOR POWER TO BE FED THROUGH TO EACH CHECK-IN DEVICE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS/ELEVATIONS.

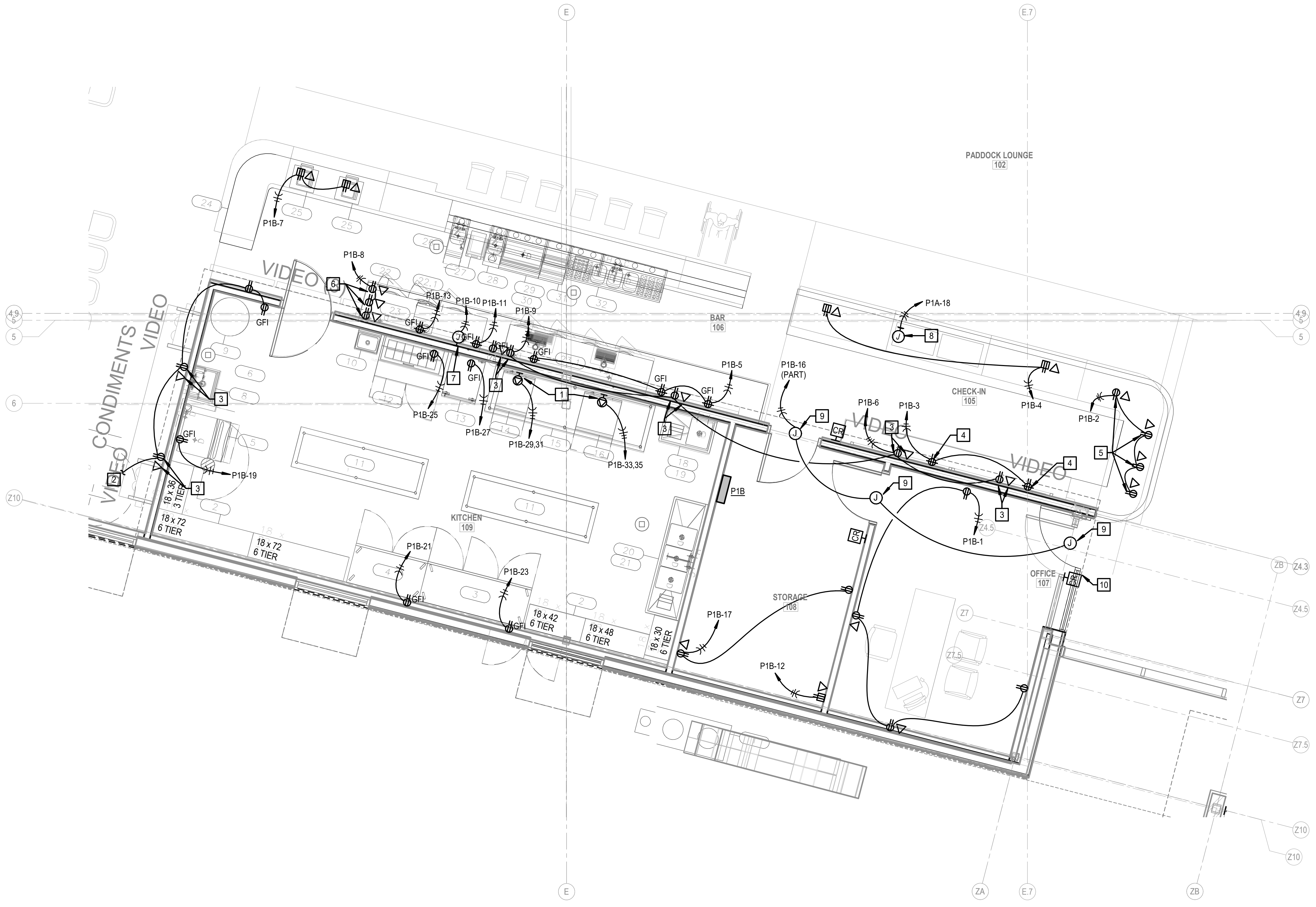
6 STACKED TV OUTLET LOCATION. COORDINATE EXACT HEIGHT AND LOCATION OF TV WITH ARCHITECT ELEVATIONS PRIOR TO ROUGH-IN.

7 PROVIDE POWER FOR MENU BOARD. COORDINATE EXACT HEIGHT, LOCATION & REQUIREMENTS WITH ARCHITECT AND MENU BOARD PROVIDER PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL LOCATION AS NECESSARY.

8 PROVIDE POWER FOR DISPLAY CASE LIGHTING. LIGHTING BY OTHER. COORDINATE EXACT REQUIREMENT WITH DISPLAY CASE MAKER AND ARCHITECT PRIOR TO ROUGH-IN.

9 INSTALL (1) 1/2" CONDUIT FROM DOOR FRAME UP TO ABOVE NEAREST ACESSIBLE CEILING FOR ELECTRIC DOOR LOCK CABLING. COORDINATE WITH DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

10 CARD READER TO BE MOUNTED TO MULLION OF DOOR OR TO NEAREST INSTALLABLE AREA. COORDINATE EXACT REQUIREMENT WITH ARCHITECT AND DOOR HARDWARE PRIOR TO ROUGH-IN.



ENLARGED POWER KITCHEN PLAN 1

1/4" = 1'-0"

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CONSTRUCTION
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ENLARGED POWER
KITCHEN PLAN

E-202

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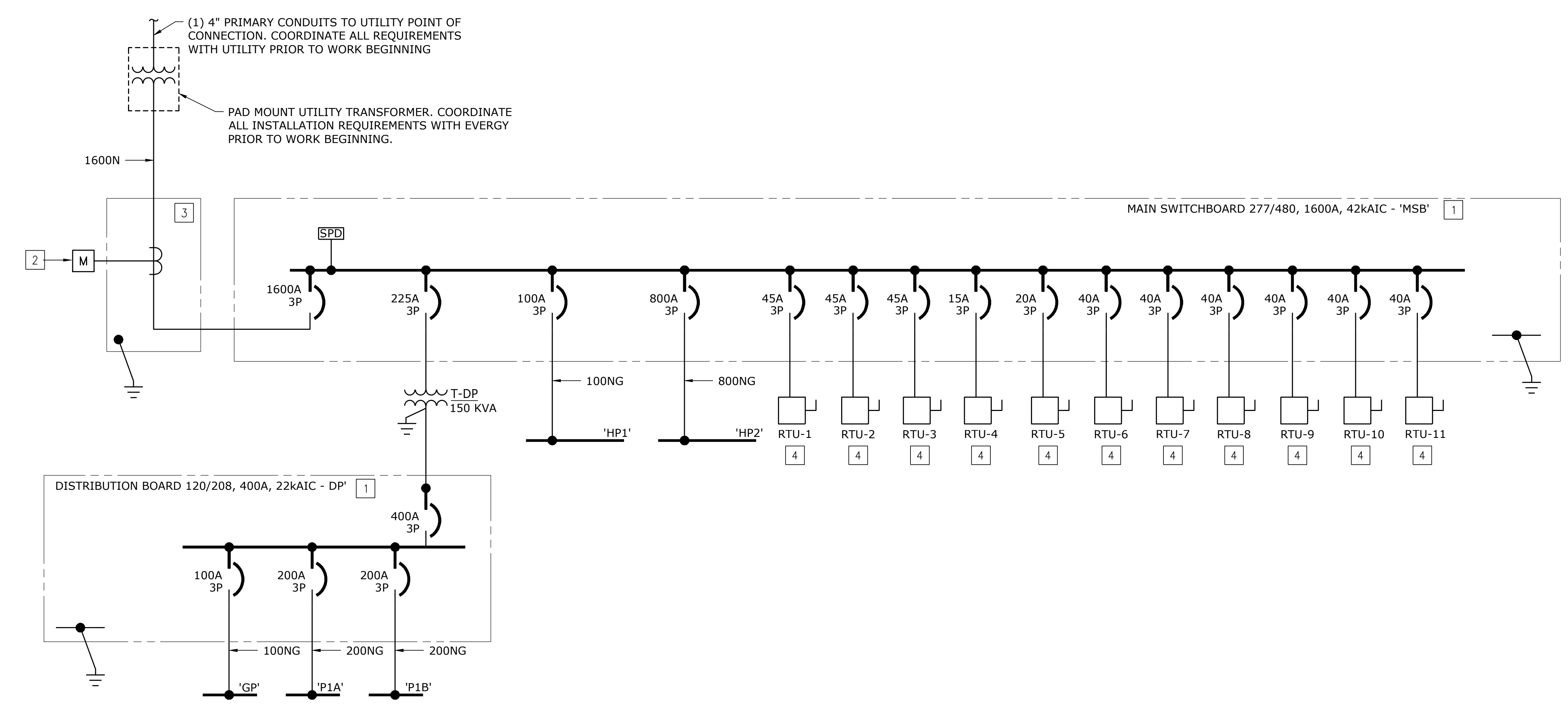

(1) 4" PRIMARY CONDUITS TO UTILITY POINT OF CONNECTION. COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO WORK BEGINNING
PAD MOUNT UTILITY TRANSFORMER. COORDINATE ALL INSTALLATION REQUIREMENTS WITH EVERGY PRIOR TO WORK BEGINNING.
1600N
3
2
M
SPD
MAIN SWITCHBOARD 277/480, 1600A, 42kAIC - 'MSB' 1
1600A 3P
225A 3P
100A 3P
800A 3P
45A 3P
45A 3P
45A 3P
15A 3P
20A 3P
40A 3P
40A 3P
40A 3P
40A 3P
40A 3P
40A 3P
T-DP 150 KVA
100NG
800NG
'HP1'
'HP2'
RTU-1
RTU-2
RTU-3
RTU-4
RTU-5
RTU-6
RTU-7
RTU-8
RTU-9
RTU-10
RTU-11
4
DISTRIBUTION BOARD 120/208, 400A, 22kAIC - DP' 1
400A 3P
100A 3P
200A 3P
200A 3P
100NG
200NG
200NG
'GP'
'P1A'
'P1B'

ELECTRIC ONE LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. REFER TO PANEL SCHEDULES FOR ALL FEEDER BREAKER AMPERAGES NOT SHOWN ON ONE-LINE DIAGRAM.
2. BASED ON VARYING SIZES OF EQUIPMENT AVAILABLE FROM DIFFERENT SWITCHBOARD/ GEAR MANUFACTURERS, CONTRACTOR TO VERIFY IN BID THAT PRICING IS BASED UPON EQUIPMENT THAT HAS BEEN VERIFIED TO FIT WITHIN THE CORRESPONDING ELECTRIC ROOMS.
3. REFER TO M/E SHEETS FOR CIRCUITING INFORMATION OF MECHANICAL EQUIPMENT.

PLAN NOTES:

1 PROVIDE MINIMUM (4) ADDITIONAL 200A/3P FRAME SPACES FOR FUTURE BREAKERS.

2 PROVIDE METER ENCLOSURE PER EVERGY REQUIREMENTS. MOUNT TO EXTERIOR BUILDING WALL. COORDINATE LOCATION WITH EVERGY REQUIREMENTS.

3 PROVIDE WALL MOUNT C.T. CABINET PER EVERGY STANDARDS.

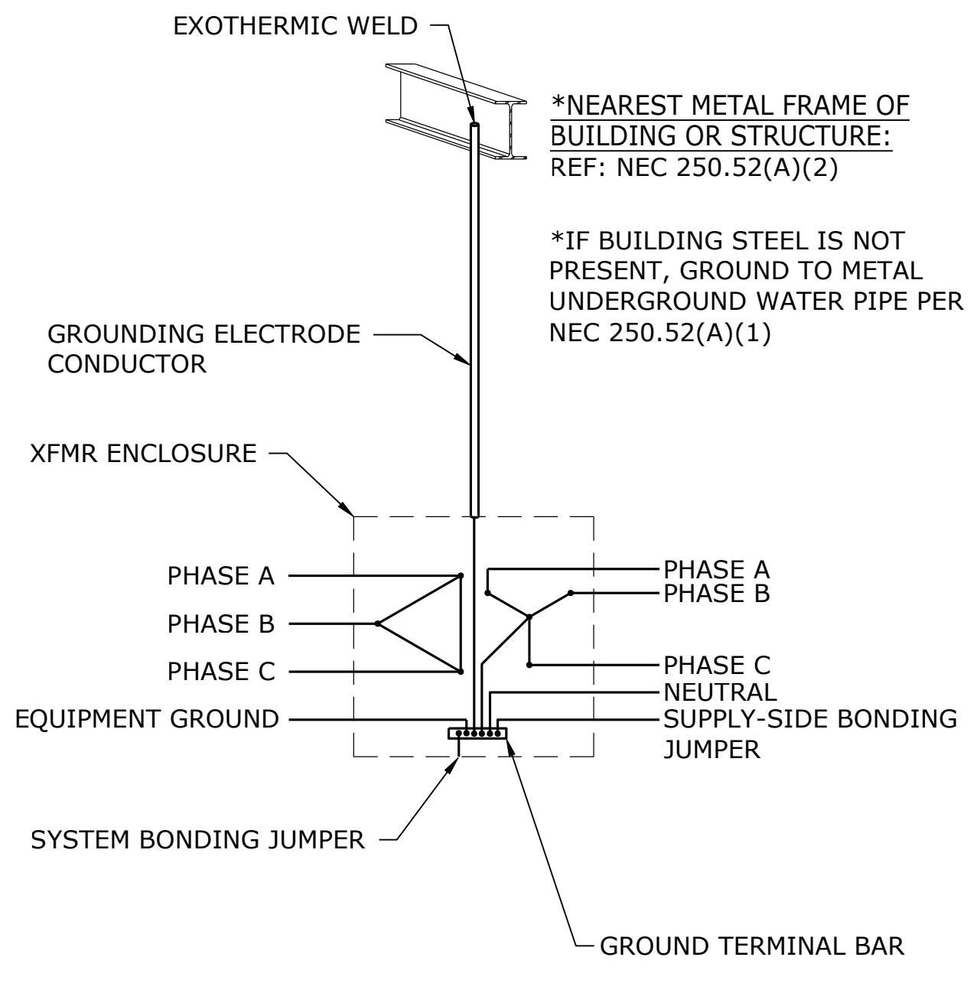
4 REFER TO MECHANICAL SCHEDULES FOR WIRE SIZE AND OTHER ELECTRICAL INFORMATION. ALSO REFER TO PANEL SCHEDULE FOR ADDITIONAL INFO.

EQUIPMENT IDENTIFICATION:

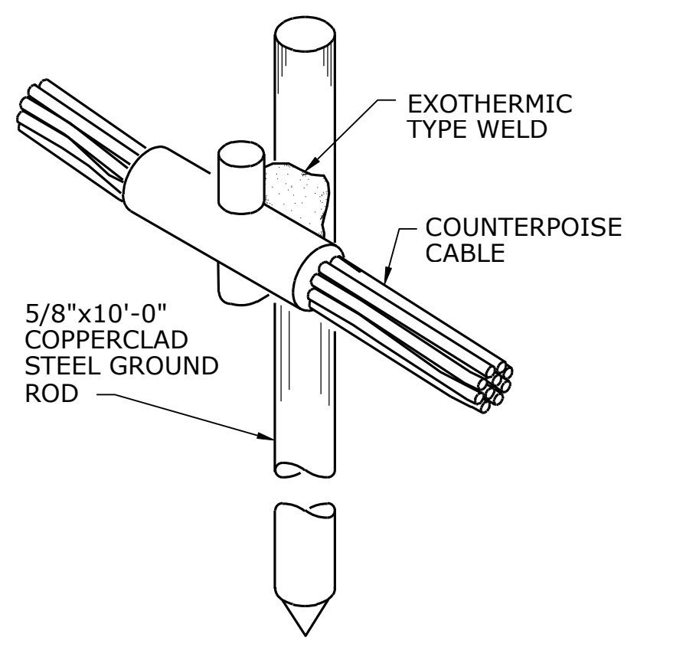
1. LABEL AVAILABLE FAULT CURRENT ON ELECTRIC SERVICE EQUIPMENT. RE: SPEC SECTION 260553 AND NEC CHAPTER 110.24.
2. LABEL SERVICE ENTRANCE ARC-FLASH HAZARD ON ELECTRIC SERVICE EQUIPMENT. RE: SPEC SECTION 260553 AND NEC CHAPTER 110.16.
3. LABEL ALL PANELS WITH THE SOURCE LOCATION OF THEIR SUPPLY FEEDER. RE: SPEC SECTION 260553 AND NEC CHAPTER 408.4(B).

ARC FLASH ANALYSIS:

CONTRACTOR TO PROVIDE AN ARC FLASH ANALYSIS WITH THE PANELBOARD SUBMITTAL.


EXOTHERMIC WELD
*NEAREST METAL FRAME OF BUILDING OR STRUCTURE:
REF: NEC 250.52(A)(2)
*IF BUILDING STEEL IS NOT PRESENT, GROUND TO METAL UNDERGROUND WATER PIPE PER NEC 250.52(A)(1)
GROUNDING ELECTRODE CONDUCTOR
XFMR ENCLOSURE
PHASE A
PHASE B
PHASE C
EQUIPMENT GROUND
PHASE A
PHASE B
PHASE C
NEUTRAL
SUPPLY-SIDE BONDING JUMPER
SYSTEM BONDING JUMPER
GROUND TERMINAL BAR

TYPICAL TRANSFORMER GROUNDING
NOT TO SCALE

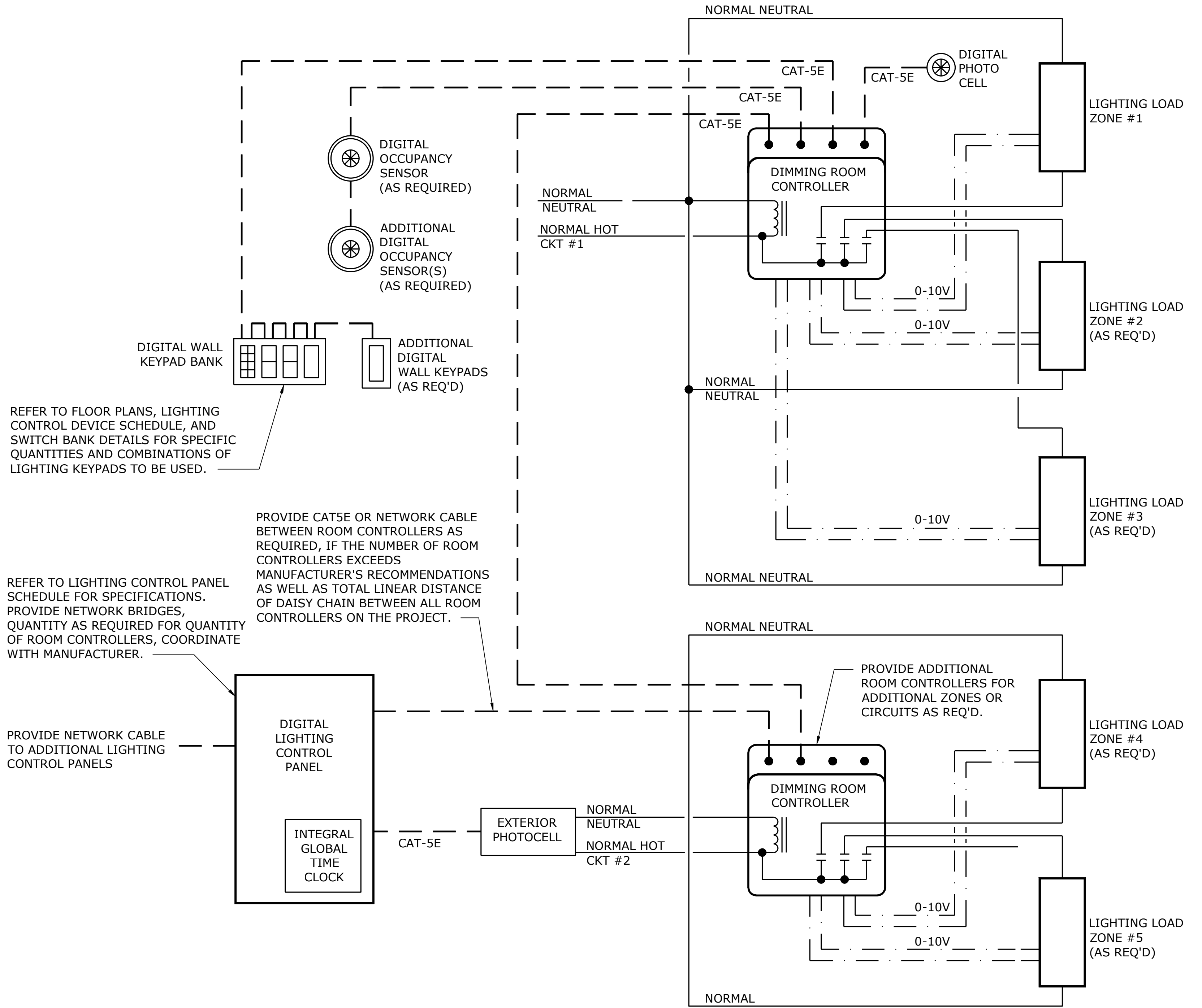


TYPICAL GROUND ROD CONNECTION
NOT TO SCALE

SLAGGIE ARCHITECTS, INC. © 2022
Kansas City, Missouri • Omaha, Nebraska
888-756-1958
slaggie.com

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2214800

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
7/19/22


NORMAL NEUTRAL
CAT-5E
CAT-5E
CAT-5E
CAT-5E
DIGITAL PHOTO CELL
LIGHTING LOAD ZONE #1
DIGITAL OCCUPANCY SENSOR (AS REQUIRED)
ADDITIONAL DIGITAL OCCUPANCY SENSOR(S) (AS REQUIRED)
NORMAL NEUTRAL
NORMAL HOT CKT #1
DIMMING ROOM CONTROLLER
0-10V
0-10V
LIGHTING LOAD ZONE #2 (AS REQ'D)
DIGITAL WALL KEYPAD BANK
ADDITIONAL DIGITAL WALL KEYPADS (AS REQ'D)
NORMAL NEUTRAL
0-10V
LIGHTING LOAD ZONE #3 (AS REQ'D)
NORMAL NEUTRAL
NORMAL NEUTRAL
DIGITAL LIGHTING CONTROL PANEL
INTEGRAL GLOBAL TIME CLOCK
CAT-5E
EXTERIOR PHOTOCELL
NORMAL NEUTRAL
NORMAL HOT CKT #2
DIMMING ROOM CONTROLLER
LIGHTING LOAD ZONE #4 (AS REQ'D)
0-10V
0-10V
LIGHTING LOAD ZONE #5 (AS REQ'D)
NORMAL NEUTRAL

REFER TO FLOOR PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SWITCH BANK DETAILS FOR SPECIFIC QUANTITIES AND COMBINATIONS OF LIGHTING KEYPADS TO BE USED.

PROVIDE CAT5E OR NETWORK CABLE BETWEEN ROOM CONTROLLERS AS REQUIRED, IF THE NUMBER OF ROOM CONTROLLERS EXCEEDS MANUFACTURER'S RECOMMENDATIONS AS WELL AS TOTAL LINEAR DISTANCE OF DAISY CHAIN BETWEEN ALL ROOM CONTROLLERS ON THE PROJECT.

REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR SPECIFICATIONS. PROVIDE NETWORK BRIDGES, QUANTITY AS REQUIRED FOR QUANTITY OF ROOM CONTROLLERS, COORDINATE WITH MANUFACTURER.

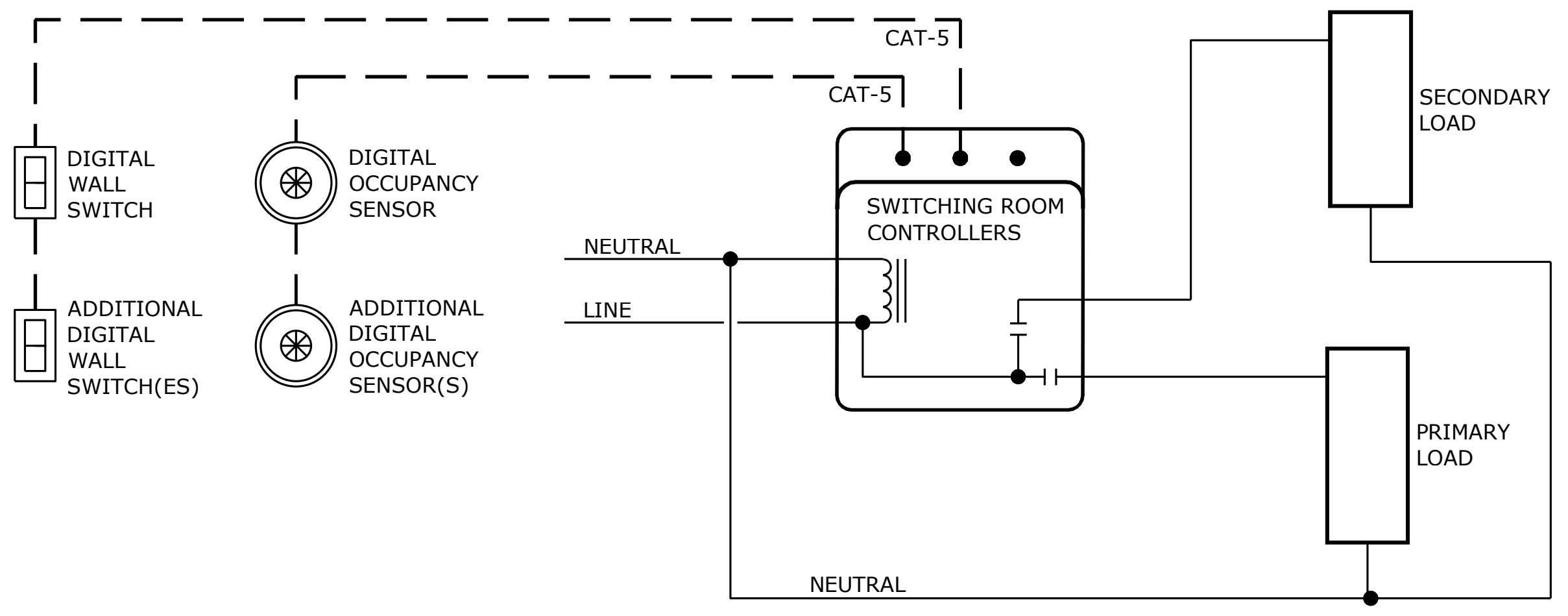
PROVIDE NETWORK CABLE TO ADDITIONAL LIGHTING CONTROL PANELS

PROVIDE ADDITIONAL ROOM CONTROLLERS FOR ADDITIONAL ZONES OR CIRCUITS AS REQ'D.

GENERAL NOTES:
- SCHEMATIC REPRESENTATIVE OF 3-RELAY UNIT. 1-RELAY AND 2-RELAY UNITS SIMILAR, LESS ADDITIONAL RELAY(S) AND ASSOCIATED LOAD(S). FOR SPACES REQUIRING MORE THAN THREE ZONES OF CONTROL OR MORE THAN ONE LIGHTING CIRCUIT, PROVIDE ADDITIONAL 1, 2, OR 3-RELAY ROOM CONTROLLERS AS REQUIRED.
- SCHEMATIC SHOWS LOW VOLTAGE 0-10V DIMMING WITH 0-10V ROOM CONTROLLERS. PROVIDE LINE VOLTAGE DIMMING ROOM CONTROLLERS AS REQUIRED FOR LINE VOLTAGE (MEDIUM BASE LED) LOADS. QUANTITIES OF ROOM CONTROLLERS MAY VARY BETWEEN 0-10V AND LINE VOLTAGE DIMMING MODELS, COORDINATE WITH MANUFACTURER PRIOR TO FURNISHING.

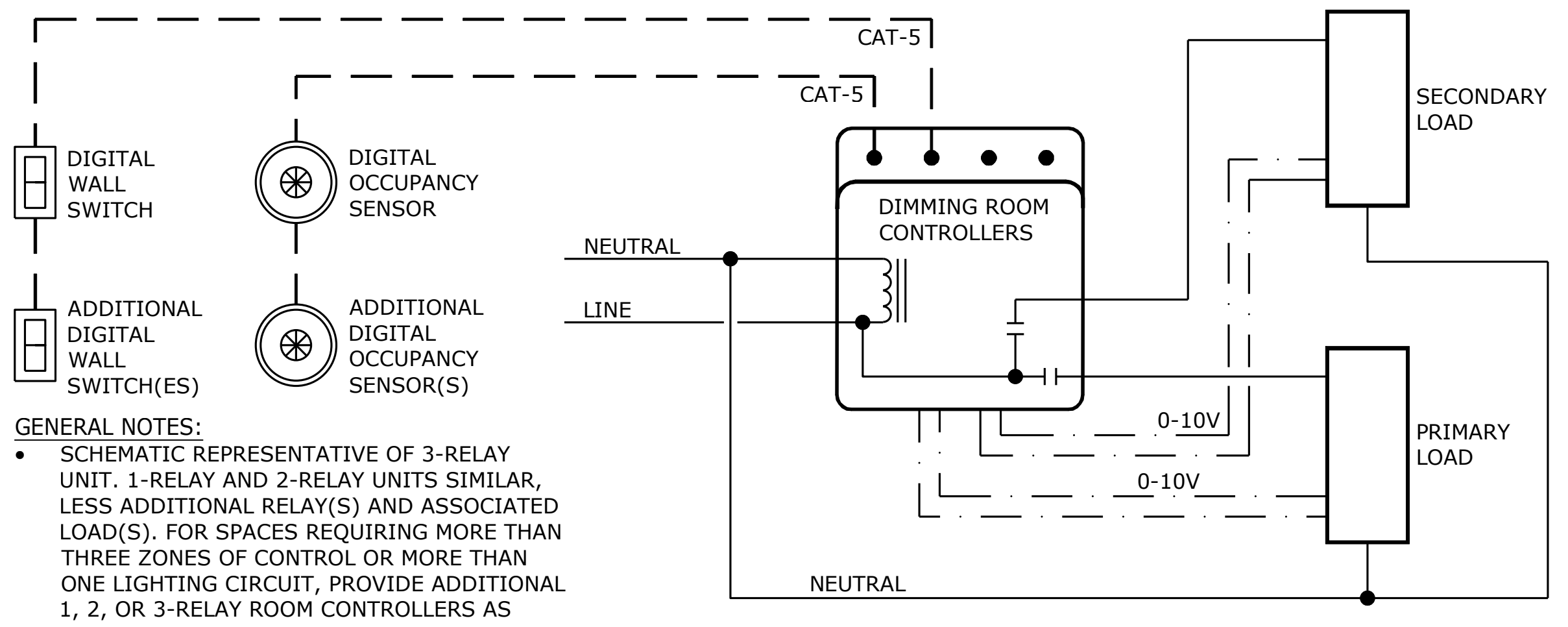
DIGITAL ROOM CONTROLLER WIRING DIAGRAM
NOT TO SCALE

(SYMBOLS DC / PC / $◆_{DT}$ / $\$_{LD}$)


CAT-5
CAT-5
DIGITAL WALL SWITCH
DIGITAL OCCUPANCY SENSOR
ADDITIONAL DIGITAL WALL SWITCH(ES)
ADDITIONAL DIGITAL OCCUPANCY SENSOR(S)
NEUTRAL
LINE
SWITCHING ROOM CONTROLLERS
SECONDARY LOAD
PRIMARY LOAD
NEUTRAL

DIGITAL ROOM CONTROLLER WIRING DIAGRAM - ON/OFF SWITCHING
NOT TO SCALE

(SYMBOLS RC / $◆_{DT}$ / $\$_{L1}$)



GENERAL NOTES:
- SCHEMATIC REPRESENTATIVE OF 3-RELAY UNIT. 1-RELAY AND 2-RELAY UNITS SIMILAR, LESS ADDITIONAL RELAY(S) AND ASSOCIATED LOAD(S). FOR SPACES REQUIRING MORE THAN THREE ZONES OF CONTROL OR MORE THAN ONE LIGHTING CIRCUIT, PROVIDE ADDITIONAL 1, 2, OR 3-RELAY ROOM CONTROLLERS AS REQUIRED.

DIGITAL ROOM CONTROLLER WIRING DIAGRAM - DIMMING
NOT TO SCALE

(SYMBOLS DC / $◆_{DT}$ / $\$_{LD}$)

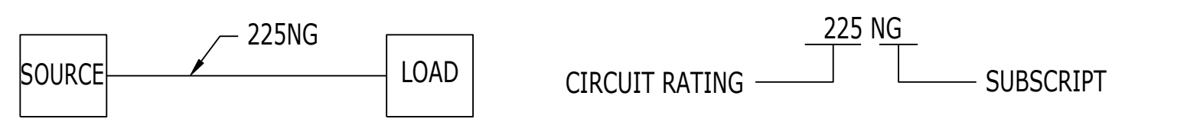
FEEDER SCHEDULE - COPPER CONDUCTORS
THREE PHASE FEEDERS ONLY

CIRCUIT RATING	CONDUIT SIZE (INCHES), MULTIPLE CONDUITS = MULTIPLE CONDUCTOR SETS							CONDUCTOR SIZE		
	G	N	NG	NGI	NG-T	NGI-T	NNG-T	PHASE/ NEUTRAL	GND/ IG	XFMR GND/IG
15	0.5	0.5	0.5	0.5	–	–	–	#12	#12	–
20	0.5	0.5	0.5	0.5	–	–	–	#12	#12	–
30	0.75	0.75	0.75	0.75	–	–	–	#10	#10	–
40	0.75	0.75	0.75	1	–	–	–	#8	#10	–
50	0.75	1	1	1.25	1	1.25	1.25	#6	#10	#8
60	1	1.25	1.25	1.5	–	–	–	#4	#10	–
70	1	1.25	1.25	1.5	–	–	–	#4	#8	–
80	1	1.25	1.25	2	–	–	–	#3	#8	–
90	1.25	1.25	1.25	2	–	–	–	#2	#8	–
100	1.25	1.5	1.5	2	1.5	2	2	#1	#8	#6
110	1.25	1.5	1.5	2	–	–	–	#1	#6	–
125	1.25	1.5	1.5	2	–	–	–	#1	#6	–
150	1.5	1.5	1.5	2	1.5	2	2	#1/0	#6	#6
175	1.5	2	2	2.5	–	–	–	#2/0	#6	–
200	2	2	2	2.5	–	–	–	#3/0	#6	–
225	2	2.5	2.5	3	–	–	–	#4/0	#4	–
250	2	2.5	2.5	3	2.5	3	3	#250	#4	#2
300	2.5	3	3	3.5	–	–	–	#350	#4	–
350	3	3.5	3.5	4	3.5	4	4	#500	#3	#1/0
400	3	3.5	3.5	4	–	–	–	#500	#3	–
450	(2) 2	(2) 2.5	(2) 2.5	(2) 3	–	–	–	#4/0	#2	–
500	(2) 2	(2) 2.5	(2) 2.5	(2) 3	(2) 2.5	(2) 3	(2) 3	#250	#2	#1/0
600	(2) 2.5	(2) 3	(2) 3	(2) 3.5	–	–	–	#350	#1	–
700	(2) 3	(2) 3.5	(2) 3.5	(2) 4	(2) 3.5	(2) 4	(2) 4	#500	#1/0	#2/0
800	(2) 3	(2) 3.5	(2) 3.5	(2) 4	–	–	–	#500	#1/0	–
1000	(3) 3	(3) 3	(3) 3	(3) 4	(3) 3	(3) 4	(3) 4	#400	#2/0	#3/0
1200	(4) 2.5	(4) 3	(4) 3	(4) 3.5	–	–	–	#350	#3/0	–
1600	(5) 3	(5) 3	(5) 3	(5) 4	(5) 3	(5) 4	(5) 4	#400	#4/0	#3/0
2000	(6) 3	(6) 3	(6) 3	(6) 4	–	–	–	#400	#250	–
2500	(7) 3	(7) 3.5	(7) 3.5	(7) 4	–	–	–	#500	#350	–
3000	(8) 3	(8) 3.5	(8) 3.5	(8) 4	–	–	–	#500	#400	–
4000	(11) 3	(11) 3.5	(11) 3.5	(11) 4	–	–	–	#500	#500	–

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT (ALL CONTAIN 3-PHASE CONDUCTORS)
G	1 GROUNDING CONDUCTOR
N	1 NEUTRAL CONDUCTOR
NG	1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR
NGI	1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR
NG-T	1 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR
NGI-T	1 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR, 1 ISOLATED TRANSFORMER GROUNDING CONDUCTOR
NNG-T	2 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR

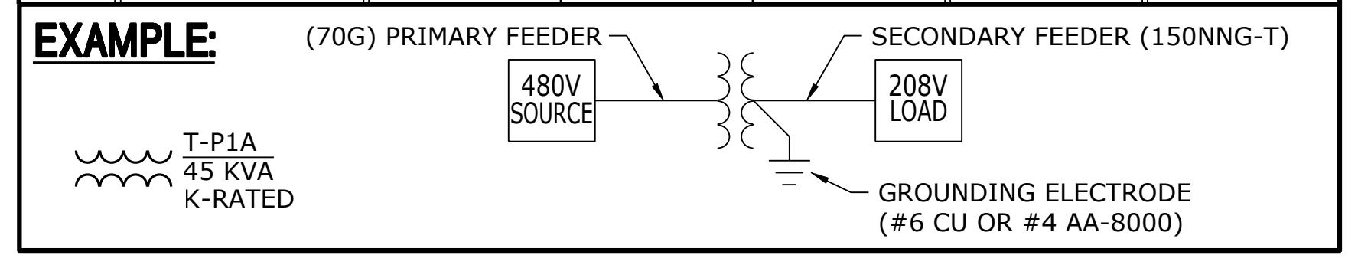
EXAMPLE:

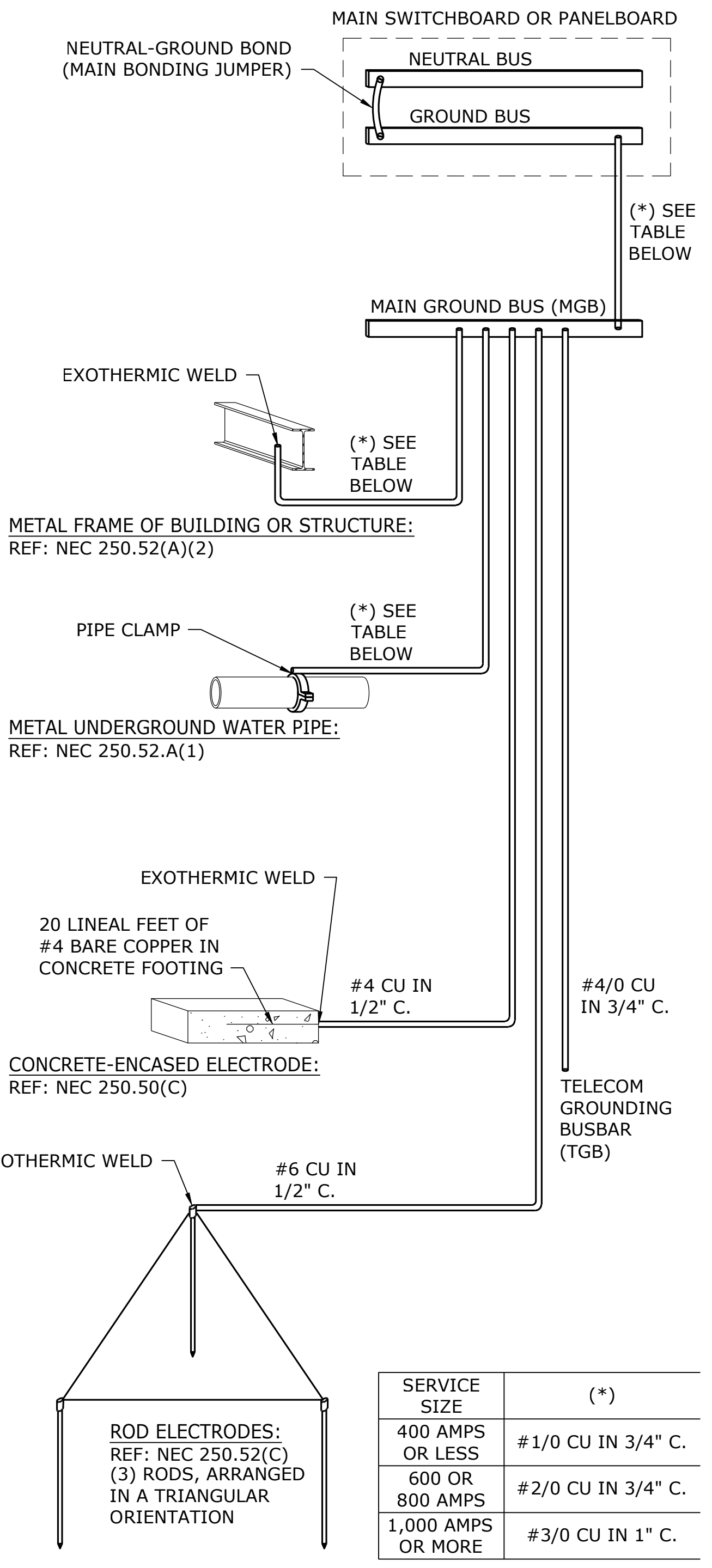


TRANSFORMER SCHEDULE

KVA	FEEDER SIZES - PRIMARY AND SECONDARY				GROUNDING ELECTRODE CONDUCTOR (COPPER)	GROUNDING ELECTRODE CONDUCTOR (AA-8000)
	PRIMARY FEEDER 277/480V - 3PH/3W	SECONDARY FEEDER - 120/208V - 3PH/4W				
		STANDARD	ISOLATED GND	K-RATED		
15	30G	50NG-T	50NGI-T	50NNG-T	(1)#8, 1/2"C.	N/A
30	50G	100NG-T	100NGI-T	100NNG-T	(1)#6, 1/2"C.	(1)#4, 1/2"C.
45	70G	150NG-T	150NGI-T	150NNG-T	(1)#6, 1/2"C.	(1)#4, 1/2"C.
75	125G	250NG-T	250NGI-T	250NNG-T	(1)#2, 1/2"C.	(1)#1/0, 3/4"C.
112 1/2	175G	350NG-T	350NGI-T	350NNG-T	(1)#1/0, 3/4"C.	(1)#3/0, 3/4"C.
150	225G	500NG-T	500NGI-T	500NNG-T	(1)#1/0, 3/4"C.	(1)#3/0, 3/4"C.
225	350G	700NG-T	700NGI-T	700NNG-T	(1)#2/0, 3/4"C.	(1)#4/0, 3/4"C.
300	450G	1000NG-T	1000NGI-T	1000NNG-T	(1)#3/0, 3/4"C.	(1)#250, 1"C.
500	800G	1600NG-T	1600NGI-T	1600NNG-T	(1)#3/0, 3/4"C.	(1)#250, 1"C.

EXAMPLE:


(70G) PRIMARY FEEDER
480V SOURCE
SECONDARY FEEDER (150NNG-T)
208V LOAD
T-P1A
45 KVA
K-RATED
GROUNDING ELECTRODE (#6 CU OR #4 AA-8000)



SERVICE SIZE	(*)
400 AMPS OR LESS	#1/0 CU IN 3/4" C.
600 OR 800 AMPS	#2/0 CU IN 3/4" C.
1,000 AMPS OR MORE	#3/0 CU IN 1" C.

SERVICE GROUNDING DIAGRAM
NOT TO SCALE

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

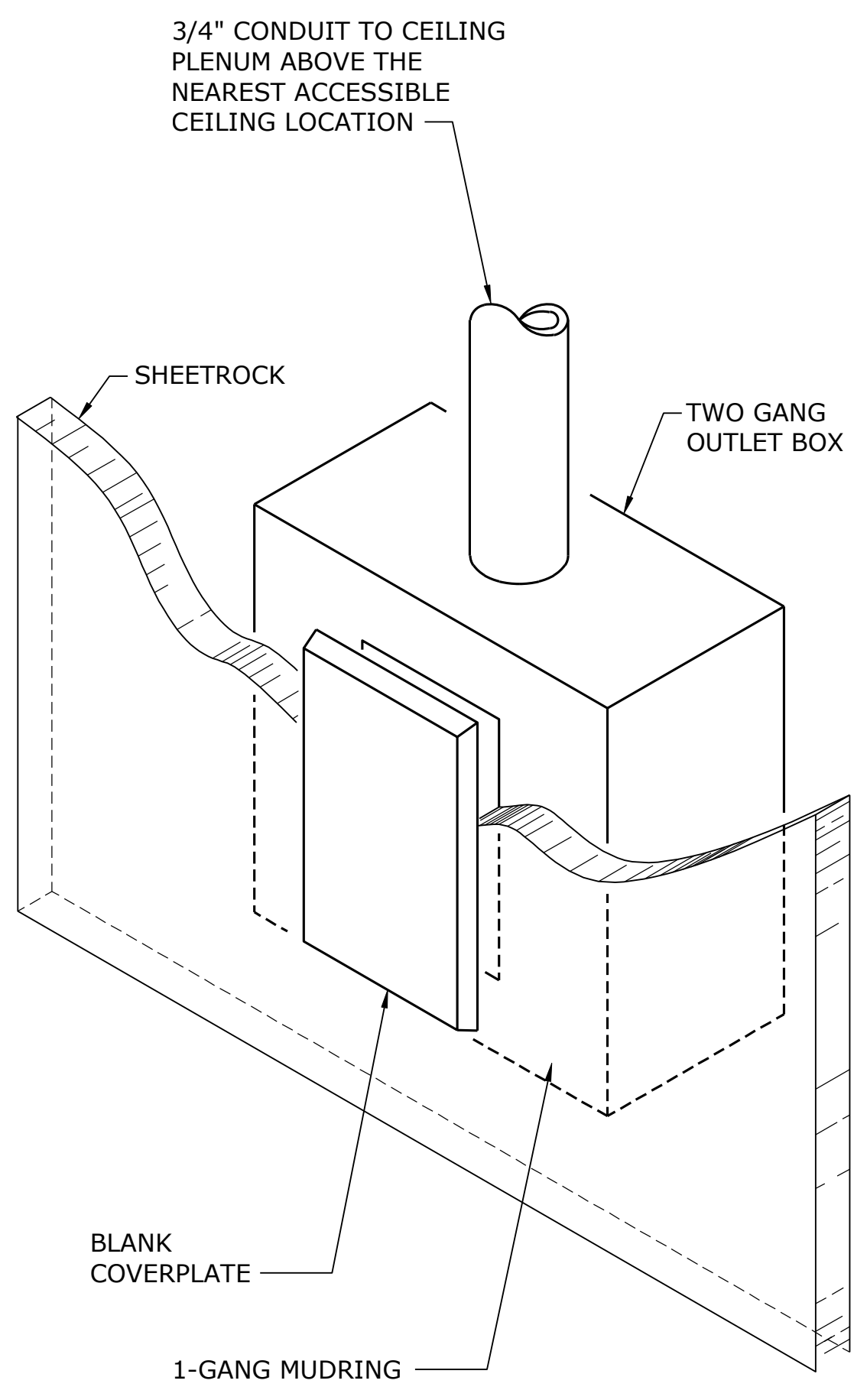
ELECTRICAL - ONE-LINE DIAGRAM

E301

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\22148\2214800\Drawings\07-2214800_E-301.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Blee Tuesday, July 19, 2022 10:04:08 AM
PLOTTED BY ◆ DATE ◆ TIME: Charles Booty Tuesday, July 19, 2022 3:10:15 PM

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

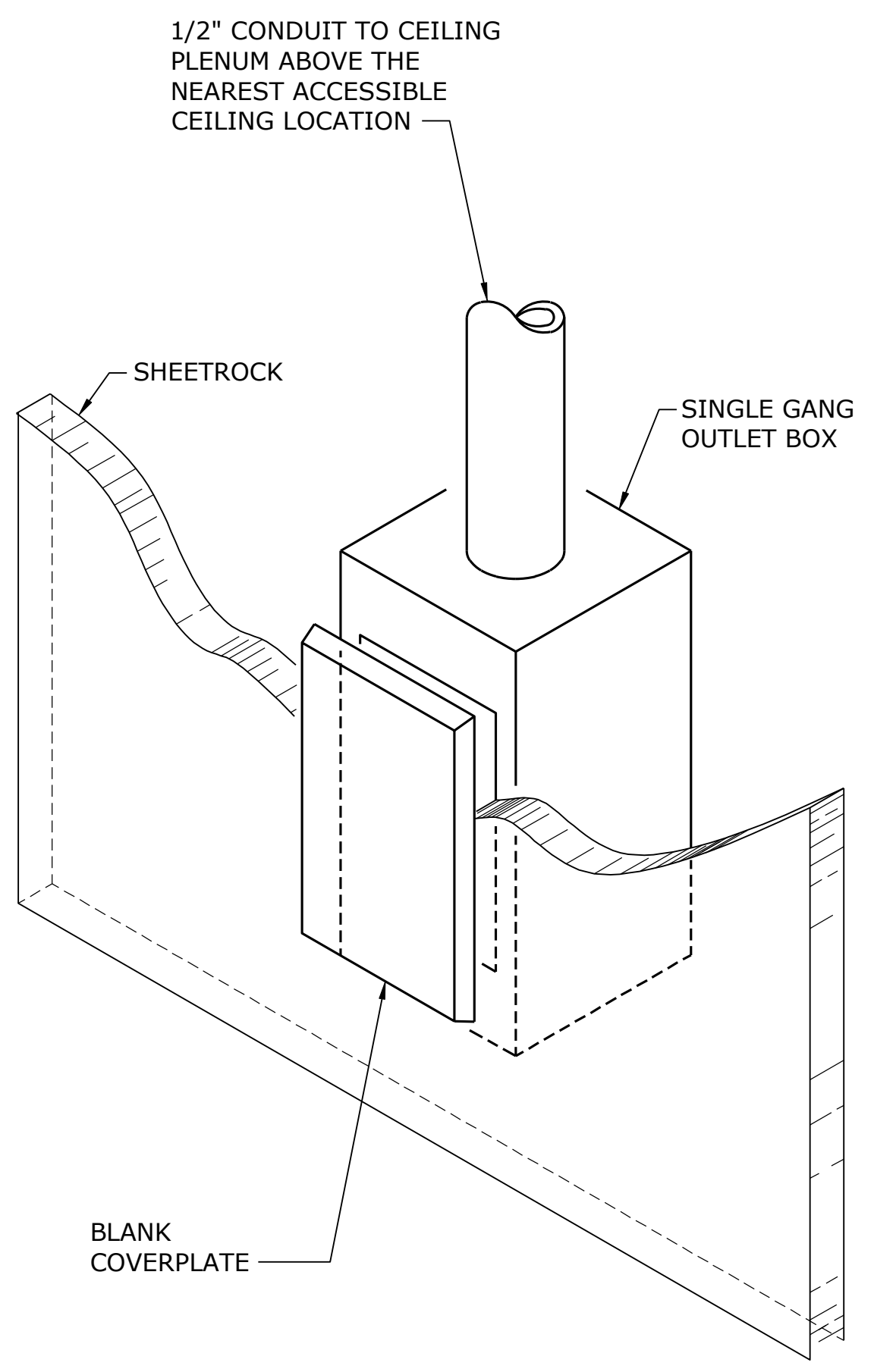

3/4" CONDUIT TO CEILING PLENUM ABOVE THE NEAREST ACCESSIBLE CEILING LOCATION
SHEETROCK
TWO GANG OUTLET BOX
BLANK COVERPLATE
1-GANG MUDRING

INCLUDES:

- PHONE OUTLETS
- DATA OUTLETS
- TELEVISION OUTLETS
- INTERCOM OUTLETS
- MICROPHONE OUTLETS

COMMUNICATIONS / AV OUTLET DETAIL

NOT TO SCALE


1/2" CONDUIT TO CEILING PLENUM ABOVE THE NEAREST ACCESSIBLE CEILING LOCATION
SHEETROCK
SINGLE GANG OUTLET BOX
BLANK COVERPLATE

INCLUDES:

- VOLUME CONTROL DEVICES
- SPEAKERS
  (CEILING SPEAKERS DO NOT REQUIRE J-BOX)
- CARD READERS
- SECURITY CAMERAS
- PANIC BUTTONS

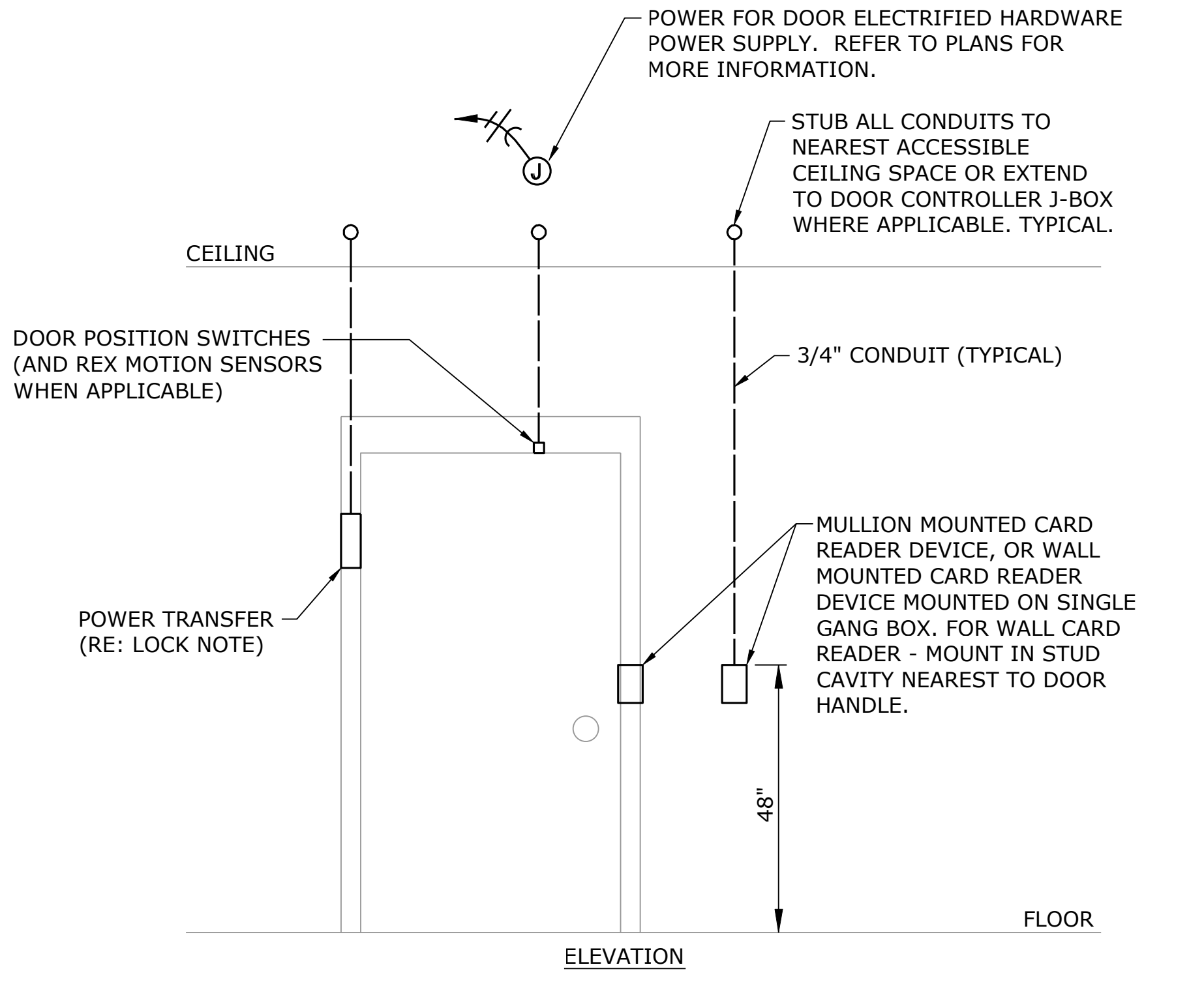
PUBLIC ADDRESS / SECURITY OUTLET DETAIL

NOT TO SCALE

TELECOMMUNCATION DEVICE ROUGH IN SCHEDULE

SYMBOL	DEVICE DESCRIPTION	ROUGH-IN DESCRIPTION	NOTES
▽	WALL MOUNTED DATA JACK(S)	RE: COMMUNICATIONS CONDUIT STUB UP DETAIL.	--
▭◁	SURVEILLANCE CAMERA (REFER TO FLOOR PLAN)	RE: CORRESPONDING CAMERA MOUNTING DETAIL	--

ALL LOW VOLTAGE DEVICES ARE PROVIDED BY OTHER/OWNER AND ONLY SHOWN AS ROUGH-IN LOCATION ON PLAN.

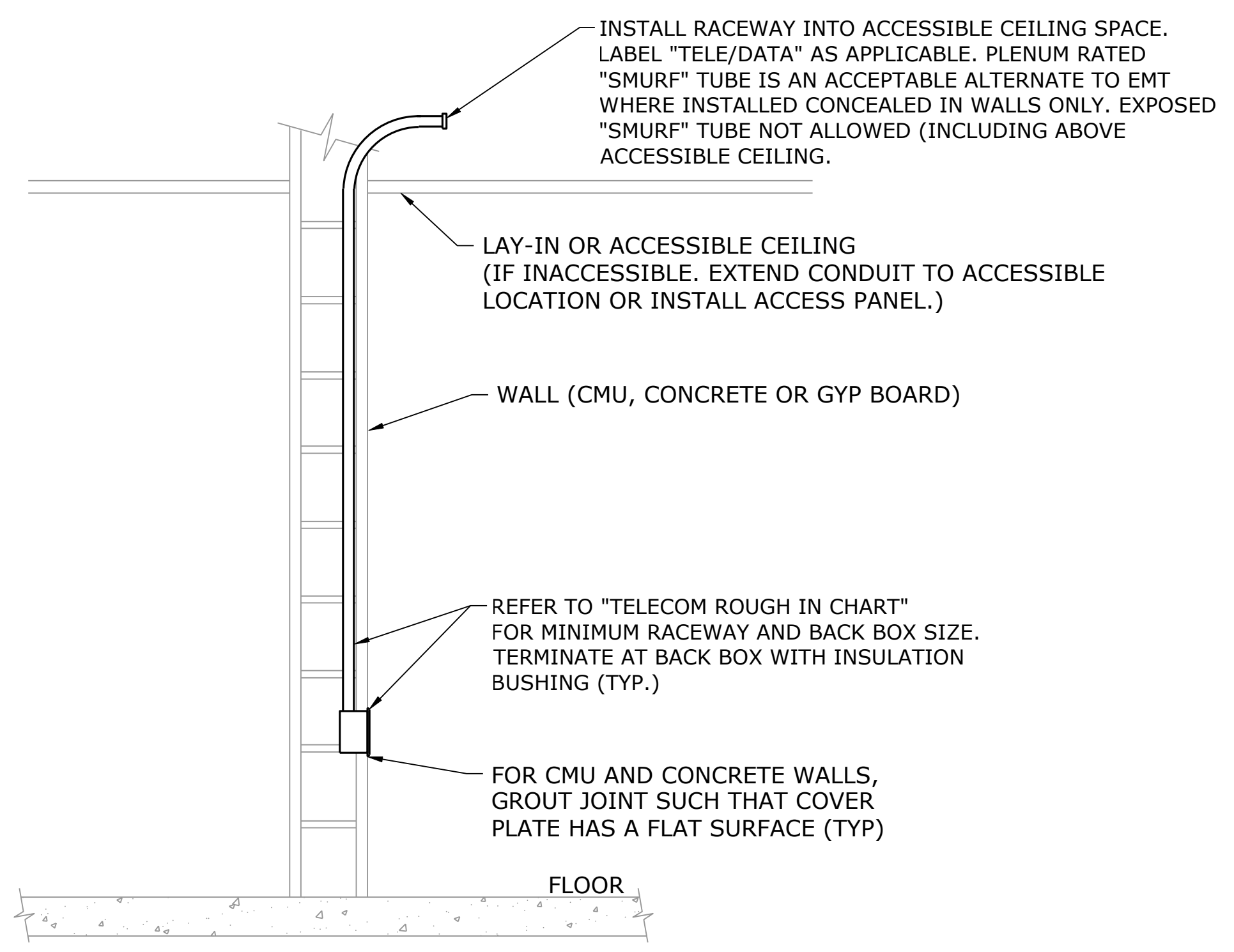

POWER FOR DOOR ELECTRIFIED HARDWARE POWER SUPPLY. REFER TO PLANS FOR MORE INFORMATION.
J
STUB ALL CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE OR EXTEND TO DOOR CONTROLLER J-BOX WHERE APPLICABLE. TYPICAL.
CEILING
DOOR POSITION SWITCHES (AND REX MOTION SENSORS WHEN APPLICABLE)
3/4" CONDUIT (TYPICAL)
MULLION MOUNTED CARD READER DEVICE, OR WALL MOUNTED CARD READER DEVICE MOUNTED ON SINGLE GANG BOX. FOR WALL CARD READER - MOUNT IN STUD CAVITY NEAREST TO DOOR HANDLE.
POWER TRANSFER (RE: LOCK NOTE)
48"
FLOOR
ELEVATION

LOCK NOTE: APPROXIMATE LOCATION SHOWN FOR AN ELECTRIC POWER TRANSFER WIRING HARNESS IS FOR SECURE DOORS UTILIZING ELECTRIFIED HARDWARE. FOR SECURE DOORS UTILIZING ELECTRIC STRIKES OR MAGNETIC LOCKS, THIS CONDUIT SHOULD RUN TO THE LATCH SIDE OF THE DOOR. COORDINATE DOOR LOCK TYPE WITH DOOR HARDWARE SPECIFICATION.

GENERAL NOTE: COORDINATE EXACT ROUGH IN FOR EACH DOOR WITH SECURITY & DOOR HARDWARE VENDOR PRIOR TO WORK BEGINNING. ONLY PROVIDE ROUGH IN WHERE REQUIRED BY VENDORS.

DOOR INFRASTRUCTURE - SINGLE DOOR DETAIL

NOT TO SCALE


INSTALL RACEWAY INTO ACCESSIBLE CEILING SPACE. LABEL "TELE/DATA" AS APPLICABLE. PLENUM RATED "SMURF" TUBE IS AN ACCEPTABLE ALTERNATE TO EMT WHERE INSTALLED CONCEALED IN WALLS ONLY. EXPOSED "SMURF" TUBE NOT ALLOWED (INCLUDING ABOVE ACCESSIBLE CEILING.
LAY-IN OR ACCESSIBLE CEILING (IF INACCESSIBLE. EXTEND CONDUIT TO ACCESSIBLE LOCATION OR INSTALL ACCESS PANEL.)
WALL (CMU, CONCRETE OR GYP BOARD)
REFER TO "TELECOM ROUGH IN CHART" FOR MINIMUM RACEWAY AND BACK BOX SIZE. TERMINATE AT BACK BOX WITH INSULATION BUSHING (TYP.)
FOR CMU AND CONCRETE WALLS, GROUT JOINT SUCH THAT COVER PLATE HAS A FLAT SURFACE (TYP)
FLOOR

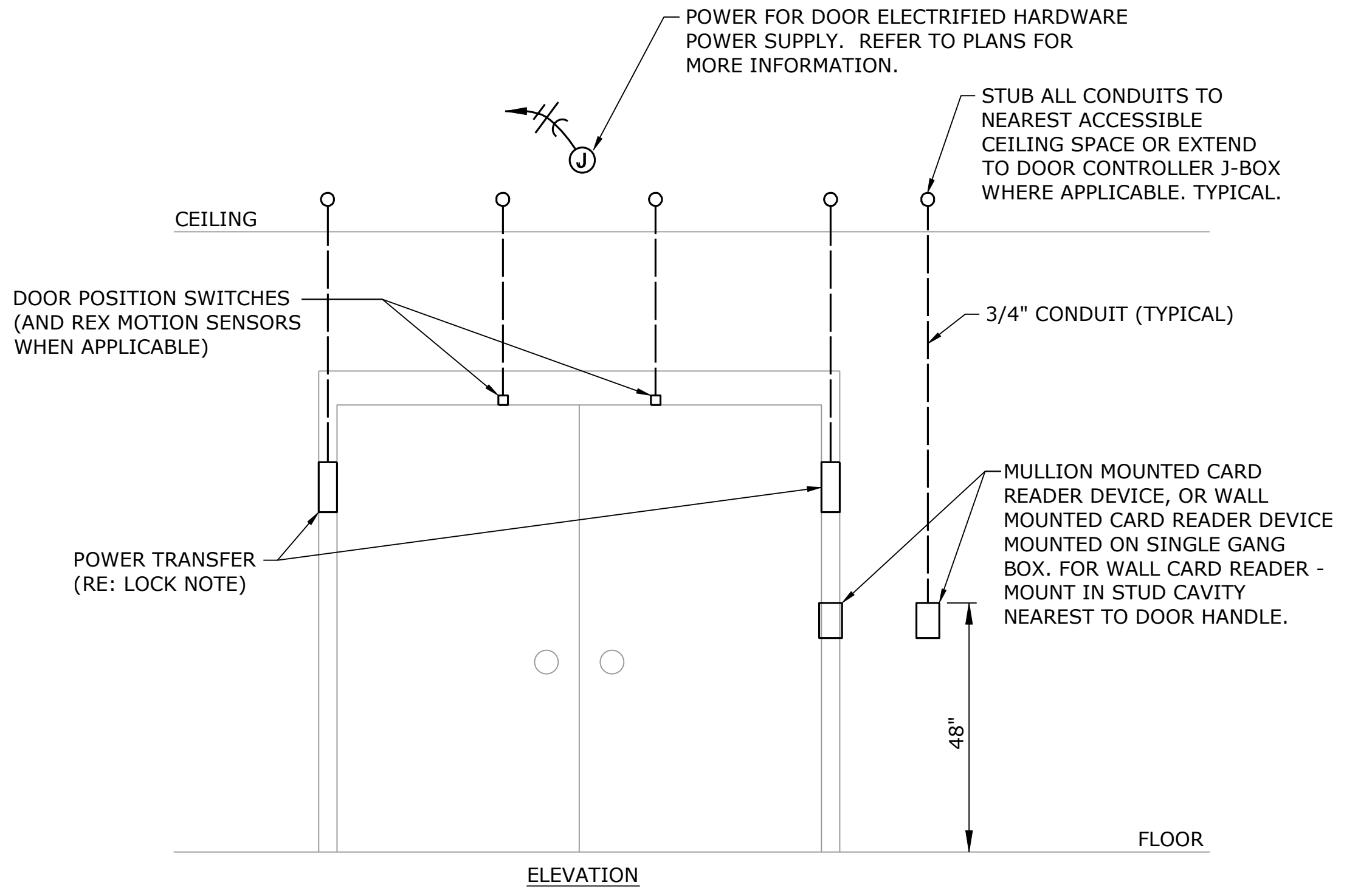
GENERAL NOTES

INSTALL OUTLET BOX AT STANDARD 18" HEIGHT UNLESS OTHERWISE NOTED. RE: PLANS FOR SPECIAL MOUNTING HEIGHTS.

COMMUNICATIONS CONDUIT STUB UP

SCALE: NO SCALE

(SYMBOLS ▽)

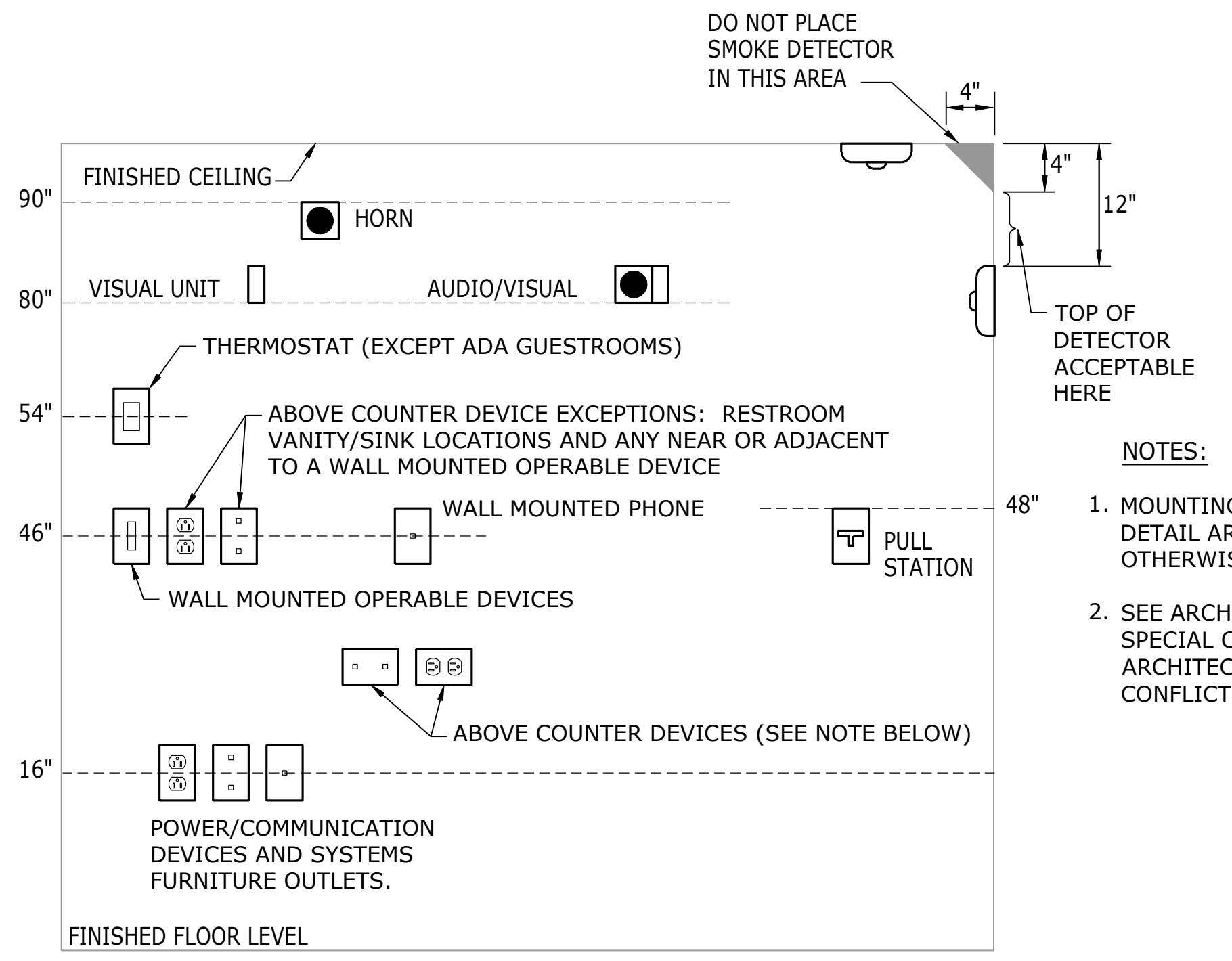

POWER FOR DOOR ELECTRIFIED HARDWARE POWER SUPPLY. REFER TO PLANS FOR MORE INFORMATION.
J
STUB ALL CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE OR EXTEND TO DOOR CONTROLLER J-BOX WHERE APPLICABLE. TYPICAL.
CEILING
DOOR POSITION SWITCHES (AND REX MOTION SENSORS WHEN APPLICABLE)
3/4" CONDUIT (TYPICAL)
MULLION MOUNTED CARD READER DEVICE, OR WALL MOUNTED CARD READER DEVICE MOUNTED ON SINGLE GANG BOX. FOR WALL CARD READER - MOUNT IN STUD CAVITY NEAREST TO DOOR HANDLE.
POWER TRANSFER (RE: LOCK NOTE)
48"
FLOOR
ELEVATION

LOCK NOTE: APPROXIMATE LOCATION SHOWN FOR AN ELECTRIC POWER TRANSFER WIRING HARNESS IS FOR SECURE DOORS UTILIZING ELECTRIFIED HARDWARE. FOR SECURE DOORS UTILIZING ELECTRIC STRIKES OR MAGNETIC LOCKS, THIS CONDUIT SHOULD RUN TO THE LATCH SIDE OF THE DOOR. COORDINATE DOOR LOCK TYPE WITH DOOR HARDWARE SPECIFICATION.

GENERAL NOTE: COORDINATE EXACT ROUGH IN FOR EACH DOOR WITH SECURITY & DOOR HARDWARE VENDOR PRIOR TO WORK BEGINNING. ONLY PROVIDE ROUGH IN WHERE REQUIRED BY VENDORS.

DOOR INFRASTRUCTURE - DOUBLE DOOR DETAIL

NOT TO SCALE


DO NOT PLACE SMOKE DETECTOR IN THIS AREA
4"
4"
12"
FINISHED CEILING
90"
HORN
80"
VISUAL UNIT
AUDIO/VISUAL
TOP OF DETECTOR ACCEPTABLE HERE
THERMOSTAT (EXCEPT ADA GUESTROOMS)
54"
ABOVE COUNTER DEVICE EXCEPTIONS: RESTROOM VANITY/SINK LOCATIONS AND ANY NEAR OR ADJACENT TO A WALL MOUNTED OPERABLE DEVICE
46"
WALL MOUNTED PHONE
48"
PULL STATION
WALL MOUNTED OPERABLE DEVICES
ABOVE COUNTER DEVICES (SEE NOTE BELOW)
16"
POWER/COMMUNICATION DEVICES AND SYSTEMS FURNITURE OUTLETS.
FINISHED FLOOR LEVEL

NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS SHOWN OTHERWISE ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES) DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER (ADA 1993). BOTTOM OF DEVICE 80" AFF (NFPA).

AUDIO UNIT (FIRE ALARM NOTIFICATION DEVICE) TOP OF UNIT AT LEAST 90" AFF OR 6" BELOW CEILING WHICH EVER IS LOWER (NFPA).

AUDIO/VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICE) LOCATION DETERMINED BY VISUAL UNIT REQUIREMENTS (NFPA).

PULL STATION (FIRE ALARM ACTIVATION DEVICE) HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 1993. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

WALL MOUNTED OPERABLE DEVICES

OPERABLE DEVICES SHALL BE LOCATED 46" AFF, TO THE CENTER OF THE BOX. WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
ADJUSTABLE THERMOSTATS.
LIGHTING SWITCHES/DIMMERS/CONTROLS
PUSH BUTTONS
INTERCOMS OTHER CONTROL OR "CALL" DEVICES
SPEAKER VOLUME CONTROL
CARD READERS

POWER/COMMUNICATION DEVICES:

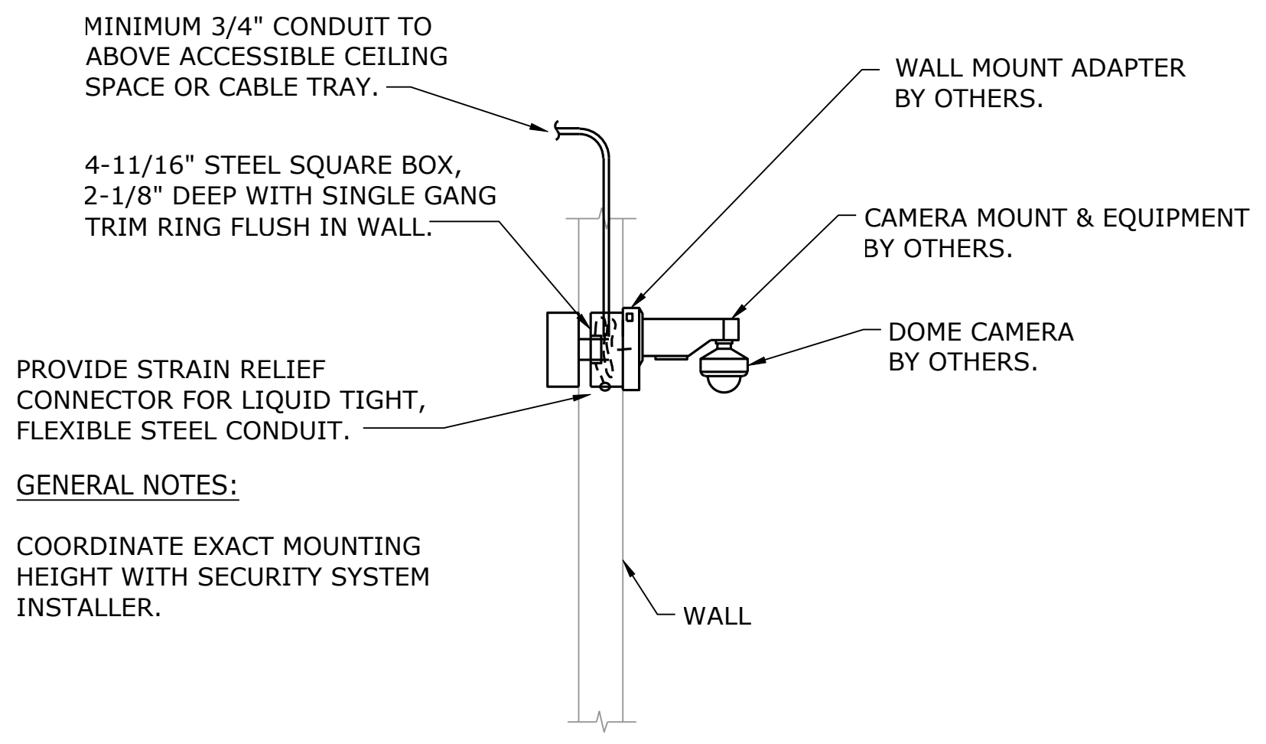
POWER/COMMUNICATION DEVICES SHALL BE LOCATED 18" AFF, TO THE CENTER OF THE BOX. POWER/COMMUNICATION DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
RECEPTACLES
PHONE AND DATA OUTLETS
TELEVISION OUTLETS

ABOVE COUNTER DEVICES:

ABOVE COUNTER DEVICES SHALL BE MOUNTED HORIZONTALLY AND LOCATED 1" ABOVE THE TOP OF THE COUNTER BACKSPLASH (2" TO CENTER OF BOX). (PLAN DESIGNATION ▲⊞⊕). VERIFY W/ ARCH ELEVATIONS AND DETAILS. EXCEPTIONS: RESTROOM VANITY/SINK LOCATIONS AND ANY NEAR OR ADJACENT TO A WALL MOUNTED OPERABLE DEVICE.

WALL MOUNTED DEVICES: MOUNTING HEIGHTS

NO SCALE


MINIMUM 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR CABLE TRAY.
4-11/16" STEEL SQUARE BOX, 2-1/8" DEEP WITH SINGLE GANG TRIM RING FLUSH IN WALL.
WALL MOUNT ADAPTER BY OTHERS.
CAMERA MOUNT & EQUIPMENT BY OTHERS.
DOME CAMERA BY OTHERS.
PROVIDE STRAIN RELIEF CONNECTOR FOR LIQUID TIGHT, FLEXIBLE STEEL CONDUIT.
WALL

GENERAL NOTES:

1. COORDINATE EXACT MOUNTING HEIGHT WITH SECURITY SYSTEM INSTALLER.

EXTERIOR WALL MOUNTED CAMERA DETAIL

NOT TO SCALE

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project number 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

ELECTRICAL - SCHEDULES AND DETAILS

E302

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\22148\2214800\Drawings\07-2214800_E-302.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Blee Friday, July 15, 2022 3:03:16 PM
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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

OCCUPANCY CONTROL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	DETECTION TYPE	SETTINGS (TYPICAL)	MANUFACTURER/MODEL	NOTES
$\$_{OS}$	WALL MOUNTED OCCUPANCY SWITCH LINE VOLTAGE - SINGLE RELAY	PASSIVE INFRARED	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER PW-101	1,2
$\$_{L1}$	WALL MOUNTED DIGITAL ON/OFF WALL SWITCH SINGLE PUSHBUTTON TYPE - ON/OFF	-	-	WATTSTOPPER LMSW-101	1,2
$\$_{LD}$	WALL MOUNTED DIGITAL DIMMING WALL SWITCH PUSHBUTTON TYPE - ON/OFF + DIMMING	-	-	WATTSTOPPER LMDM-101	1,2
◆DT	CEILING MOUNTED OCCUPANCY SENSOR DIGITAL - 1000 SF COVERAGE	DUAL TECHNOLOGY	-	WATTSTOPPER LMDC-100	1,5,6,7
SC	DIGITAL ROOM CONTROLLER - ON/OFF SWITCHING UNIVERSAL VOLTAGE - SINGLE	-	ON: MANUAL OFF: 30 MINUTE DELAY	WATTSTOPPER LMRC-101	1,3
DC	DIGITAL ROOM CONTROLLER - ON/OFF SWITCHING + DIMMING UNIVERSAL VOLTAGE - SINGLE	-	ON: MANUAL OFF: 30 MINUTE DELAY	WATTSTOPPER LMRC-211	1,3
UC	UNIVERSAL ROOM CONTROLLER - ON/OFF SWITCHING + DIMMING INCANDESCENT, MLV, FORWARD PHASE, ELV, AND LED. UNIVERSAL VOLTAGE - SINGLE	-	ON: MANUAL OFF: 30 MINUTE DELAY	WATTSTOPPER LMRC-220	1,3

NOTE 1: THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES.

NOTE 2: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.

NOTE 3: LOCATE DEVICE ABOVE ACCESSIBLE CEILING, LOCATIONS SHOWN ON DRAWINGS ARE SCHEMATIC.

NOTE 4: PROGRAM DAYLIGHT HARVESTING SETPOINT AT NIGHT WITH ALL LIGHT FIXTURES AT FULL LIGHT OUTPUT. PHOTOCELL TO DIM LIGHTING BASED ON THIS SETPOINT IN A CLOSED LOOP SYSTEM.

NOTE 5: PROVIDE 8'-0" OF EXCESS CONTROL WIRING, COILED AND TIED, BETWEEN CEILING MOUNTED OCCUPANCY SENSORS AND CORRESPONDING POWER PACKS.

NOTE 6: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.

NOTE 7: MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.

INTERIOR FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
M	RGBW COLOR CHANGING LINEAR LED STRIP. PROVIDE REQUIRED CHANNEL PER LOCATION REQUIREMENTS. VERIFY WITH ARCHITECT ON TYPE OF CHANNELS REQUIRED PRIOR TO ORDER. MEASURE LENGTH IN FIELD AND PROVIDE REQUIRED QUANTITY OF POWER SUPPLIES. OFFERED IN 200,400,800W 24V POWER SUPPLIES WITH DMX + 0-10V DRIVER. PROVIDE WITH PHAROS TPS DMX CONTROLLER.	SURFACE	LED 226 LUMENS MAX RGBW (W=3000K)	UNV	ACCLAIM - FLEX SPECTRUM INTERIOR.	4.5 LF
N	4" LED DOWNLIGHT. FLUSH LENS. STANDARD FLANGE. MEDIUM DISTRIBUTION. CLEAR SEMI-SPECULAR POWDER COAT. X = EMERGENCY BATTERY PACK.	RECESSED	LED 1000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 4DR SERIES	9
P	15" SHADE ARCHITECTURAL PENDANT BAR FIXTURE. 0-10V DIMMING DRIVER. 3" FROSTED DOME. CORD/CABLE MOUNT. GALVENIZED FINISH.	PENDANT	LED 2700 LUMENS (2008 DELIVERED) 4000K 80 CRI	UNV	RLM CLASSICS - SW1509GV SERIES	18
R1	LED TRACK FIXTURE. FLOOD DISTRIBUTION. ARCHITECT TO SELECT FINISH. 120V TRIACK/ELV DIMMING STANDARD. PROVIDE MONOPOINT CANOPY WITH TRACK EXTENSION ADAPTER 48" LINE VOLTAGE. FINISH OF EXTENSION TO MATCH FIXTURE.	PENDANT	LED 2123 LUMENS 4000K 80 CRI	120	CONTECH LIGHTING - CTL9053 SERIES CONTECH LIGHTING - LA1048 (EXTENSION ADAPTER).	20
R2	SAME AS TYPE R1 EXECPT WIDE FLOOD DISTRIBUTION.	-	-	-	-	-
X	LED EXIT SIGN WITH THERMOPLASTIC HOUSING. WHITE FINISH AND RED LETTERING. PROVIDE ARROWS AS NOTED ON DRAWINGS, AND SINGLE OR DOUBLE SIDED AS NEEDED AND SHOWN ON DRAWINGS. PROVIDE TOP, BACK, OR SIDE MOUNT HARDWARE AS REQUIRED BY ARCHITECTURAL CONDITIONS. BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION.	SURFACE WALL OR CEILING	LED	UNV	HE WILLIAMS - EXIT ACUITY - LQM LED OR PRE-APPROVED EQUAL	5

EXTERIOR FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
PP2	ARCHITECTURAL PEDESTRIAN POLE. M1075 29" LENGTH HEAD. TYPE 2 DISTRIBUTION. HOUSE SIDE SHIELD. 750 mA DRIVER. ARCHITECT TO SELECT FINISH OF FIXTURE & POLE. PROVIDE WITH STRUCTURA SQUARE STEEL POLE 16'-0" MOUNT TO "SIDE A" OF POLE AT TOP OF POLE.	CONCRETE BASE	LED 4620 LUMENS 4000K 70 CRI	UNV	STRUCTURA - LINEAL SERIES OR APPROVED EQUAL	40
PP4	ARCHITECTURAL PEDESTRIAN POLE. M1075 29" LENGTH HEAD. TYPE 4 DISTRIBUTION. HOUSE SIDE SHIELD. 750 mA DRIVER. ARCHITECT TO SELECT FINISH OF FIXTURE & POLE. PROVIDE WITH STRUCTURA SQUARE STEEL POLE 16'-0" MOUNT TO "SIDE A" OF POLE AT TOP OF POLE.	CONCRETE BASE	LED 4620 LUMENS 4000K 70 CRI	UNV	STRUCTURA - LINEAL SERIES OR APPROVED EQUAL	40
SA	18FT TOTAL LENGTH LINEAR INGROUND EXTERIOR LED FIXTURE. WALL WASH OPTICS. 0-10V DIMMING DRIVER. IP68 RATING.	RECESSED	LED 909 LUM/FT 4000K 80 CRI	UNV	LUMENPULSE - LUMENFACADE INGROUND OR APPROVED EQUAL.	5 LF
SD SDX	6" WET LOCATION LED DOWNLIGHT. OPEN REFLECTOR. WIDE DISTRIBUTION. CLEAR SEMI-SPECULAR TRIM. 0-10V DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	RECESSED	LED 1000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 6DR SERIES OR APPROVED EQUAL.	8.7
SF	EXTERIOR SINGLE HEAD LED FLOODLIGHT/COLUMN PROJECTOR. 1-10V DIMMING DRIVER. VERY WIDE DISTRIBUTION (58 X 67 DEGREE) ARCHITECT TO SELECT FINISH.	SURFACE	LED 4874 LUMENS 4000K 80 CRI	208 (1-PHASE)	LIGMAN - KWH7 KWH-50001 SERIES	54
SG1	4FT LONG EXTERIOR LINEAR GRAZING FIXTURE. 10x10 DEGREE OPTICS. INTEGRAL 0-10V DIMMING DRIVER. WET LOCATION RATED. ARCHITECT TO SELECT FINISH.	SURFACE	LED 466 LUM/FT 4000K 80 CRI	277	INSIGHT LIGHTING - MEDLEY EXTERIOR SERIES OR PRE-APPROVED EQUAL	3.5 LF
SG2	8FT LONG EXTERIOR LINEAR GRAZING FIXTURE. 10x10 DEGREE OPTICS. INTEGRAL 0-10V DIMMING DRIVER. WET LOCATION RATED. ARCHITECT TO SELECT FINISH.	SURFACE	LED 466 LUM/FT 4000K 80 CRI	277	INSIGHT LIGHTING - MEDLEY EXTERIOR SERIES OR PRE-APPROVED EQUAL	3.5 LF
SM	POLE COLUMN PROJECTOR FLOOD 4x9 LED FIXTURE. 13'-0" POLE, MODULAR LOCATION PER MANUFACTURER RECOMMENDATIONS. INTEGRAL DALI DIMMING CONTROLS. WIDE OPTIC (34 DEGREE). PROVIDED WITH TOTAL (4) HEADS, VERIFY WITH MANUFACTURER.	POLE BASE	(4) LED HEADS 2108 LUM/HEAD 4000K 80 CRI	208 (1-PHASE)	LIGMAN - LADOR LD-20011 SERIES OR PRE-APPROVED EQUAL	21 PER HEAD
SP2	SINGLE HEAD ARCHITECTURAL LED EXTERIOR PARKING LOT FIXTURE. ARCHITECT TO SELECT FINISH. TYPE 2 DISTRIBUTION WITH HOUSESIDE SHIELD. 800mA DRIVE CURRENT, UL LISTED FOR WET LOCATION. PROVIDE WITH 28' SQUARE STEEL POLE, MOUNT HEAD TO SIDE OF POLE (TENON MOUNTING PROHIBITED). INTEGRAL 10% 0-10V DIMMING DRIVER.	CONCRETE BASE	LED 11,508 LUMENS 4000K 70 CRI	277	MCGRAW-EDISON GALLEON II LITHONIA SERIES DSX1 BEACON SERIES VPL GARDCO SERIES P26 LSI SERIES MRM OR PRE-BID APPROVED EQUAL	121
SP5	DOUBLE HEAD 180 DEGREE APART ARCHITECTURAL LED EXTERIOR PARKING FIXTURE. ARCHITECT TO SELECT FINISH. TYPE 5WQ DISTRIBUTION. 800mA DRIVE CURRENT, UL LISTED FOR WET LOCATION. PROVIDE WITH 28' SQUARE STEEL POLE, MOUNT HEAD TO SIDE OF POLE (TENON MOUNTING PROHIBITED). INTEGRAL 10% 0-10V DIMMING DRIVER.	CONCRETE BASE	LED 17,778 LUMENS 4000K 70 CRI	277	MCGRAW-EDISON GALLEON II LITHONIA SERIES DSX1 BEACON SERIES VPL GARDCO SERIES P26 LSI SERIES MRM OR PRE-BID APPROVED EQUAL	121 PER HEAD
ST	OUTDOOR LED TAPE LIGHT. 0-10V DIMMABLE MODULE/DRIVER. APPROXIMATELY 40 INCH LENGTH OF TAPE. HARDWIRE FEED. REFER TO SITE PLAN AND MEASURE OFF PLANS. PROVIDE BENDABLE CHANNEL CH-602. *MAY NEED TO CONSULT FACTORY.*		LED 250 LUM/FT 4000K 90 CRI	120	KELVIX - OREX SERIES	3 LF
SW	LARGE 12" LENGTH OUTDOOR WALL WASHING FLOOD LED FIXTURE. PROVIDE NECESSARY ACCESSORIES TO MOUNT FROM GROUND TO WASH WALL. 0-10V DIMMING DRIVER. ARCHITECT TO SELECT FINISH.	GROUND MOUNT	LED 3160 LUMENS 4000K 80 CRI	UNV	ELLIPTIPAR - S172 LED SERIES OR PRE-APPROVED EQUAL	27
WP WPX	EXTERIOR WALLPACK LED. WET LOCATION RATED. 0-10V DIMMING DRIVER. TYPE 3 OR WIDE DISTRIBUTION. ARCHITECT TO SELECT FINISH. X = EMERGENCY BATTERY PACK.	WALL	LED 3,000 LUMENS 4000K 70 CRI	UNV	LITHONIA WDGE2 LED SERIES HE WILLIAMS VWPH SERIES OR APPROVED EQUAL	36

INTERIOR FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
A1 A1X	4FT LENGTH LED HIGH EFFICIENCY. HIGHBAY FIXTURE. DIFFUSE ACRYLIC LENS. WIDE DISTRIBUTION. 0-10V DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	SUSPENDED	LED 24,000 LUMENS 4000K 80 CRI	UNV	LSI - ALLIANCE (ALI) SERIES METALUX - HBLED HE SERIES OR PRE-APPROVED EQUAL	147
A2 A2X	4FT LENGTH LED HIGH EFFICIENCY. HIGHBAY FIXTURE. DIFFUSE ACRYLIC LENS. WIDE DISTRIBUTION. 0-10V DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	SUSPENDED	LED 30,000 LUMENS 4000K 80 CRI	UNV	LSI - ALLIANCE (ALI) SERIES METALUX - HBLED HE SERIES OR PRE-APPROVED EQUAL	187
B1 B1X	2X4 LED ARCHITECTURAL TROFFER. 0-10V DIMMING DRIVER. FROSTED ACRYLIC SHIELDING. X = EMERGENCY BATTERY PACK.	RECESSED	LED 4000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - LT SERIES	32
B2 B2X	2X4 LED ARCHITECTURAL TROFFER. 0-10V DIMMING DRIVER. FROSTED ACRYLIC SHIELDING. X = EMERGENCY BATTERY PACK.	RECESSED	LED 5200 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - LT SERIES	37.2
C CX	2X2 LED ARCHITECTURAL TROFFER. 0-10V DIMMING DRIVER. FROSTED ACRYLIC SHIELDING. X = EMERGENCY BATTERY PACK.	RECESSED	LED 4900 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - LT SERIES	38.1
DW	4" LED DOWNLIGHT. OPEN REFLECTOR LENS. STANDARD FLANGE. WALL WASH DISTRIBUTION. CLEAR SEMI-SPECULAR POWDER COAT. X = EMERGENCY BATTERY PACK.	RECESSED	LED 1000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 4DR SERIES	9
D1 D1X	4" LED DOWNLIGHT. FLUSH LENS. STANDARD FLANGE. WIDE DISTRIBUTION. CLEAR SEMI-SPECULAR POWDER COAT. X = EMERGENCY BATTERY PACK.	RECESSED	LED 1500 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 4DR SERIES	13.9
D2 D2X	4" LED DOWNLIGHT. FLUSH LENS. STANDARD FLANGE. WIDE DISTRIBUTION. CLEAR SEMI-SPECULAR POWDER COAT. X = EMERGENCY BATTERY PACK.	RECESSED	LED 2000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 4DR SERIES	19.8
D3 D3X	4" LED DOWNLIGHT. FLUSH LENS. STANDARD FLANGE. WIDE DISTRIBUTION. CLEAR SEMI-SPECULAR POWDER COAT. X = EMERGENCY BATTERY PACK.	RECESSED	LED 2000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 4DR SERIES	19.8 1
E	EMERGENCY LED BUG EYES. BLACK FINISH. EMERGENCY BATTERY BACK-UP.	SURFACE	LED	UNV	HE WILLIAMS - EMER/MR SERIES	-
FP1 FP1X	4FT LENGTH LED LENSED STRIP. NON-DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	SUSPENDED	LED 3000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 75S SERIES	19.7
FP2 FP2X	4FT LENGTH LED LENSED STRIP. NON-DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	SUSPENDED	LED 5000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 75S SERIES	33
FS1 FS1X	4FT LENGTH LED LENSED STRIP. NON-DIMMING DRIVER. X = EMERGENCY BATTERY PACK.	SURFACE	LED 3000 LUMENS 4000K 80 CRI	UNV	HE WILLIAMS - 75S SERIES	19.7
G8 G8X	8FT LENGTH LINEAR FIXTURE. FROSTED FLUSH LENS. INTEGRAL 0-10V DIMMING DRIVER. 1-CIRCUIT CONTROL. ARCHITECT TO SELECT FINISH. X = EMERGENCY BATTERY PACK.	SUSPENDED	LED 569 LUM/FT 4000K 80 CRI	UNV	NULITE - REGOLO 4 SERIES	4.85 LF
L6 L6X	6FT LENGTH LINEAR FIXTURE. FROSTED FLUSH LENS. INTEGRAL 0-10V DIMMING DRIVER. 1-CIRCUIT CONTROL. ARCHITECT TO SELECT FINISH. X = BATTERY BACK UP	PENDANT	LED 569 LUM/FT 4000K 80 CRI	UNV	NULITE - REGOLO 4 SERIES	4.85 LF
LX7	SAME AS TYPE L6, EXCEPT 7'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
L8	SAME AS TYPE L6, EXCEPT 8'-0" LENGTH	PENDANT	-	-	-	-
L10	SAME AS TYPE L6, EXCEPT 10'-0" LENGTH	PENDANT	-	-	-	-
LX11	SAME AS TYPE L6, EXCEPT 11'-0" LENGTH. X = BATTERY BACK UP	PENDANT	-	-	-	-
L12	SAME AS TYPE L6, EXCEPT 12'-0" LENGTH	PENDANT	-	-	-	-
LX13	SAME AS TYPE L6, EXCEPT 13'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
L14 LX14	SAME AS TYPE L6, EXCEPT 14'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
L16	SAME AS TYPE L6, EXCEPT 16'-0" LENGTH	PENDANT	-	-	-	-
L17 LX17	SAME AS TYPE L6, EXCEPT 17'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
L18	SAME AS TYPE L6, EXCEPT 18'-0" LENGTH	PENDANT	-	-	-	-
LX21	SAME AS TYPE L6, EXCEPT 21'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
LX28	SAME AS TYPE L6, EXCEPT 29'-0" LENGTH X = BATTERY BACK UP	PENDANT	-	-	-	-
L29	SAME AS TYPE L6, EXCEPT 29'-0" LENGTH	PENDANT	-	-	-	-
LW12	12FT LENGTH WALL WASH FIXTURE. INTEGRAL 0-10V DIMMING DRIVER. 1-CIRCUIT CONTROL. ARCHITECT TO SELECT FINISH. PROVIDE NECESSARY LENGTHS & BREAKS PER MANUFACTURER RECOMMENDATIONS.	PENDANT	LED 431 LUM/FT 4000K 80 CRI	UNV	INSIGHT LIGHTING - STRUCTURE C5X	3.5 LF
LW35	SAME AS TYPE LW12, EXCEPT 35'-0" LENGTH	PENDANT	-	-	-	-
LW69	SAME AS TYPE LW12, EXCEPT 69'-0" LENGTH	PENDANT	-	-	-	-

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NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex
2911 NE Independence Ave.
Lee's Summit, MO 64064

#	Revisions:	
1	CITY COMMENTS	08/18/22

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

ELECTRICAL - SCHEDULES AND DETAILS

E303

PROJECT NAME: 2214800 K1 Speed - Lees Summit, Mo
AUTOCAD FILE LOCATION \ NAME: X:\22\22148\2214800\Drawings\07-2214800_E-303.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Lkelsey Thursday, August 18, 2022 10:43:28 AM
PLOTTED BY ◆ DATE ◆ TIME: Booty Charles Thursday, August 18, 2022 1:32:29 PM

PANEL GP

MAIN BUS AMPS: 100 A **AIC:** 10,000 A MAIN LUGS ONLY
MAIN BREAKER: N/A **SECTIONS:** 1 - 42 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 208Y/120 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
REC - EXTERIOR	1	20	1	2	20	1	REC - RACE TRACK SOUTH & EAST
GARAGE DOOR OPENER KART SHOP	1	20	3	4	20	1	REC - RACE TRACK KIOSK
REC - KART SHOP GENERAL #1	1	20	5	6	20	1	REC - TRACK WEST/NORTH GENERAL
REC - KART SHOP GENERAL #2	1	20	7	8	20	1	REC - AIR COMPRESSOR OUTLET
REC - KART SHOP COUNTER	1	20	9	10	20	1	SPARE
LIGHTING RELAY PANEL "LRCP"	1	20	11	12	20	1	SPARE
FIRE ALARM PANEL "FACP"	1	20	13	14	20	1	SPARE
UH-1	2	20	15	16	20	1	SPARE
			17	18	20	1	SPARE
LTG - SITE CAR DISPLAY POLE	2	20	19	20	20	1	SPARE
			21	22	20	1	SPARE
LTG - CAR DISPLAY SEATING	1	20	23	24	20	1	SPARE
LTG - FRONT ENT. FLOODS	2	20	25	26	20	1	SPARE
			27	28	20	1	SPARE
SPARE	1	20	29	30	20	1	SPARE
SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

PANEL HP2 SECTION 2

MAIN BUS AMPS: 800 A **AIC:** 42,000 A MAIN LUGS ONLY
MAIN BREAKER: N/A **SECTIONS:** 1 - 72 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 480Y/277 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
KART CHARGER 25	3	15	73	74	15	3	KART CHARGER 37
NORTH SIDE			75	76			SOUTH SIDE
			77	78			
KART CHARGER 26	3	15	79	80	15	3	KART CHARGER 38
NORTH SIDE			81	82			SOUTH SIDE
			83	84			
KART CHARGER 27	3	15	85	86	15	3	KART CHARGER 39
NORTH SIDE			87	88			SOUTH SIDE
			89	90			
KART CHARGER 28	3	15	91	92	15	3	KART CHARGER 40
NORTH SIDE			93	94			SOUTH SIDE
			95	96			
KART CHARGER 29	3	15	97	98	15	3	KART CHARGER 41
NORTH SIDE			99	100			SOUTH SIDE
			101	102			
KART CHARGER 30	3	15	103	104	15	3	KART CHARGER 42
NORTH SIDE			105	106			SOUTH SIDE
			107	108			
KART CHARGER 31	3	15	109	110	15	3	KART CHARGER 43
NORTH SIDE			111	112			SOUTH SIDE
			113	114			
KART CHARGER 32	3	15	115	116	15	3	KART CHARGER 44
NORTH SIDE			117	118			SOUTH SIDE
			119	120			
KART CHARGER 33	3	15	121	122	15	3	KART CHARGER 45
NORTH SIDE			123	124			SOUTH SIDE
			125	126			
KART CHARGER 34	3	15	127	128	15	3	KART CHARGER 46
NORTH SIDE			129	130			SOUTH SIDE
			131	132			
KART CHARGER 35	3	15	133	134	15	3	KART CHARGER 47
NORTH SIDE			135	136			SOUTH SIDE
			137	138			
KART CHARGER 36	3	15	139	140	15	3	KART CHARGER 48
NORTH SIDE			141	142			SOUTH SIDE
			143	144			

PANEL HP2 SECTION 1

MAIN BUS AMPS: 800 A **AIC:** 42,000 A MAIN LUGS ONLY
MAIN BREAKER: N/A **SECTIONS:** 1 - 72 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 480Y/277 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
KART CHARGER 1	3	15	1	2	15	3	KART CHARGER 13
NORTH SIDE			3	4			SOUTH SIDE
			5	6			
KART CHARGER 2	3	15	7	8	15	3	KART CHARGER 14
NORTH SIDE			9	10			SOUTH SIDE
			11	12			
KART CHARGER 3	3	15	13	14	15	3	KART CHARGER 15
NORTH SIDE			15	16			SOUTH SIDE
			17	18			
KART CHARGER 4	3	15	19	20	15	3	KART CHARGER 16
NORTH SIDE			21	22			SOUTH SIDE
			23	24			
KART CHARGER 5	3	15	25	26	15	3	KART CHARGER 17
NORTH SIDE			27	28			SOUTH SIDE
			29	30			
KART CHARGER 6	3	15	31	32	15	3	KART CHARGER 18
NORTH SIDE			33	34			SOUTH SIDE
			35	36			
KART CHARGER 7	3	15	37	38	15	3	KART CHARGER 19
NORTH SIDE			39	40			SOUTH SIDE
			41	42			
KART CHARGER 8	3	15	43	44	15	3	KART CHARGER 20
NORTH SIDE			45	46			SOUTH SIDE
			47	48			
KART CHARGER 9	3	15	49	50	15	3	KART CHARGER 21
NORTH SIDE			51	52			SOUTH SIDE
			53	54			
KART CHARGER 10	3	15	55	56	15	3	KART CHARGER 22
NORTH SIDE			57	58			SOUTH SIDE
			59	60			
KART CHARGER 11	3	15	61	62	15	3	KART CHARGER 23
NORTH SIDE			63	64			SOUTH SIDE
			65	66			
KART CHARGER 12	3	15	67	68	15	3	KART CHARGER 24
NORTH SIDE			69	70			SOUTH SIDE
			71	72			

PANEL HP1

MAIN BUS AMPS: 100 A **AIC:** 42,000 A MAIN LUGS ONLY
MAIN BREAKER: N/A **SECTIONS:** 1 - 42 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 480Y/277 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
LTG - MAIN TRACK LIGHTS WEST	1	20	1	2	15	3	EF-2
LTG - MAIN TRACK LIGHTS CENTER	1	20	3	4			
LTG - MAIN TRACK LIGHTS EAST	1	20	5	6			
LTG - MAIN TRACK ENTRANCE	1	20	7	8	20	1	LTG - BUILDING WALL PACKS
LTG - ELECTRICAL & KART SHOP	1	20	9	10	20	1	LTG - SITE MONUMENT
SPARE	1	20	11	12	20	1	LTG - K1 SPEED SIGN
SPARE	1	20	13	14	20	1	LTG - PARKING LOT
SPARE	1	20	15	16	20	1	LTG - FRONT BUILDING FLOOD
SPARE	1	20	17	18	20	1	LTG - FRONT WINDOW WALL WASH
SPARE	1	20	19	20	20	1	LTG - FRONT ENT. WALL WASH
SPARE	1	20	21	22	20	1	LTG - BACK BLDG WALL WASH
SPARE	1	20	23	24	20	1	LTG - FIRE LANE POLE
SPARE	1	20	25	26	20	1	LTG - FRONT ENT. DOWNLIGHTS
SPARE	1	20	27	28	20	1	SPARE
SPARE	1	20	29	30	20	1	SPARE
SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

PANEL P1A

MAIN BUS AMPS: 225 A **AIC:** 10,000 A MAIN LUGS ONLY
MAIN BREAKER: N/A **SECTIONS:** 1 - 66 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 208Y/120 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
REC - RESTROOM & UTILITY	1	20	1	2	20	1	DOOR HARDWARE
REC - WATER COOLER	1	20GFI	3	4	20	1	REC - RACE TRACK CHARGIN AREA
REC - GEN. BREAK/HALL/GAMEROOM	1	20	5	6	20	1	REC - RTU-1,5,6,7
REC - BREAK ROOM 111 FRIDGE	1	20	7	8	20	1	REC - RTU-2,8,9
REC - BREAK RM 111 DED. COUNTER#1	1	20	9	10	20	1	REC - RTU-3,4,10,11
REC - BREAK RM 111 DED. COUNTER#2	1	20	11	12	15	1	EF-1
REC - BREAK RM 111 WASHER	1	*20	13	14	25	2	DWH-1
REC - BREAK RM 111 WASHER/DRYER	2	*30	15	16			
			17	18	20	1	LTG - GAME ROOM
REC - VIDEOGAME SET #1	1	20	19	20	20	1	LTG - BREAK/BATHRM/UTILITY
REC - VIDEOGAME SET #2	1	20	21	22	20	1	LTG - SECOND FLR / STAIRS
REC - VR ARENA DED. CIRCUIT #1	1	20	23	24	20	1	SPARE
REC - VR ARENA DED. CIRCUIT #2	1	20	25	26	20	1	SPARE
REC - VIDEOGAME SET #3	1	20	27	28	20	1	SPARE
REC - VIDEOGAME SET #4	1	20	29	30	20	1	SPARE
REC - VIDEOGAME SET #5	1	20	31	32	20	1	SPARE
REC - VIDEOGAME SET #6	1	20	33	34	20	1	SPARE
REC - VIDEOGAME SET #7	1	20	35	36	20	1	SPARE
REC - BASKETBALL	1	20	37	38	20	1	SPARE
REC - SKEEBALL SET #1	1	20	39	40	20	1	SPARE
REC - SKEEBALL SET #2	1	20	41	42	20	1	SPARE
REC - FUTURE VIDEO GAME SETS #1	1	20	43	44	20	1	SPARE
REC - FUTURE VIDEO GAME SETS #2	1	20	45	46	20	1	SPARE
SPARE	1	20	47	48	20	1	SPARE
SPARE	1	20	49	50	20	1	SPARE
SPARE	1	20	51	52	20	1	SPARE
SPARE	1	20	53	54	20	1	SPARE
SPARE	1	20	55	56	20	1	SPARE
SPARE	1	20	57	58	20	1	SPARE
SPARE	1	20	59	60	20	1	SPARE
REC - 2ND FLOOR OFFICE 201	1	20	61	62	20	1	SPARE
REC - 2ND FLOOR OFFICE 202	1	20	63	64	20	1	SPARE
REC - 2ND FLOOR OFFICE 203	1	20	65	66	20	1	SPARE

*CIRCUIT 13 & 15/17 REQUIRE VERIFICATION ON EXACT EQUIPMENT.
*REFER TO PLAN NOTES #1 & 2 ON SHEET E201.

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

RELAY CABINET - "LRCP"

RELAY #	RELAY AREA DESCRIPTION	WATTS	VOLTAGE	CIRCUIT	LOCAL OVERRIDE	SCHEDULED ON	SCHEDULED OFF	NOTES
1	BUILDING WALL PACKS	504	277	HP1-8	N/A	DUSK	DAWN	1,2
2	MONUMENT SIGN	1000	277	HP1-10	N/A	DUSK	DAWN	1
3	K1 SPEED MONUMENT SIGN 'TYPA SA'	90	277	HP1-12	N/A	DUSK	DAWN	1
4	PARKING LOT POLES	1210	277	HP1-14	N/A	DUSK	DAWN	1,2
5	FRONT BUILDING FLOOD	54	277	HP1-16	N/A	DUSK	DAWN	1,2
6	FRONT WINDOW WALL WASH	70	277	HP1-18	N/A	DUSK	DAWN	1,2
7	FRONT ENTRANCE WALL WASH	42	277	HP1-20	N/A	DUSK	DAWN	1,2
8	BACK BLDG WALL WASH	405	277	HP1-22	N/A	DUSK	DAWN	1,2
9	FIRE LANE POLE LIGHTS	240	277	HP1-24	N/A	DUSK	DAWN	1,2
10	SITE CAR DISPLAY POLE	168	208	GP-19,21	DALI DIMMER	DUSK	DAWN	1,3
11	CAR DISPLAY SEATING	150	120	GP-23	N/A	DUSK	DAWN	1
12	FRONT ENTRANCE DOWNLIGHTS	69.6	277	HP1-26	N/A	DUSK	DAWN	1,2
13	FRONT ENTRANCE FLOODS	540	208	GP-25,27	DALI DIMMER	DUSK	DAWN	1,3
14	SPARE							
15	SPARE							
16	SPARE							
17	SPARE							
18	SPARE							
19	SPARE							
20	SPARE							
21	SPARE							
22	SPARE							
23	SPARE							
24	SPARE							

CABINET REQUIREMENTS:

A. BASIS OF DESIGN IS AN LMCP-24-10V SYSTEM BY WATT STOPPER. ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL.
B. ALL RELAYS TO BE RATED FOR 20A (MINIMUM) - NORMALLY CLOSED.
C. PHOTOCELL INPUT FOR CONTROL OF EXTERIOR LIGHTING. ELECTRICAL CONTRACTOR TO PROVIDE CABLING AS REQUIRED BETWEEN THE EXTERIOR PHOTOCELL AND RELAY CABINETS. REFER TO DRAWINGS FOR PHOTOCELL LOCATIONS.
D. SEVEN DAY TIME CLOCK INCLUDING SKIP-A-DAY CAPABILITY.
E. 0-10V DIMMING CAPABILITIES.

NOTES:

1. CONTROLLED BY EXTERIOR PHOTOCELL.
2. FIXTURES TO BE DIMMED AUTOMATICALLY TO 50% AFTER THE CLOSE OF BUSINESS PER LIGHTING ORDINANCES. COORDINATE WITH OWNER ON SCHEDULE.
3. REFER TO LIGHTING PLANS FOR SEPARATE DALI DIMMER SWITCH TO CONTROL FIXTURES.

PANEL P1B

MAIN BUS AMPS: 225 A **AIC:** 10,000 A MAIN LUGS ONLY
MAIN BREAKER: 225 A **SECTIONS:** 1 - 66 SPACE EQUIPMENT GROUND BUS
VOLTAGE: 208Y/120 V **MOUNTING:** SURFACE
PHASES/WIRES: 3 PH / 4 W **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
REC - OFFICE 107	1	20	1	2	20	1	REC - CHECK-IN STATION
REC - GENERAL CHECK-IN 105	1	20	3	4	20	1	REC - CHECK-IN POS
REC - COUNTER BAR GENERAL 106	1	20	5	6	20	1	REC - TV BAR/CHECK-IN
REC - POS	1	20	7	8	20	1	REC - STACKED TV
REC - UNDERBAR REFRIG. #23.1	1	20	9	10	20	1	POWERED MENU
REC - REACH-IN FRIDGE #23	1	20	11	12	20	1	REC - IT RACK STORAGE 108
REC - COFFEE DISPENSER #22.1	1	20	13	14	20	1	SPARE
(DWH-2)GAS WATER HEATER #9	1	20	15	16	20	1	DOOR HARDWARE
REC - STORAGE 108	1	20	17	18	20	1	LTG - DISPLAY CASE FRONT DESK
REC - ICE MAKER #5	1	20	19	20	20	1	REC - SCREENS MEETING RM ENT.
REC - REFRIGERATOR #4	1	20	21	22	20	1	REC - MEETING RM 103 NORTH
REC - FREEZER #3	1	20	23	24	20	1	REC - MEETING RM 103 SOUTH
REC - SANDWHICH PREP REFRIG #12	1	20	25	26	20	1	REC - EXTERIOR
REC - HEATED CABINET #13	1	20	27	28	20	1	GARAGE DOOR OPENER
REC - CONVECTION OVEN #14	2	50	29	30	20	1	REC - STACKED TV GAME AREA
			31	32	20	1	SPARE
REC - CONVECTION OVEN #16	2	50	33	34	20	1	SPARE
			35	36	20	1	SPARE
REC - PUB SEATING TABLE	1	20	37	38	20	1	SPARE
REC - LOUNGE / LOBBY	1	20	39	40	20	1	SPARE
INTERIOR SIGNAGE	1	20	41	42	20	1	SPARE
UH-2	2	15	43	44	20	1	SPARE
			45	46	20	1	SPARE
LTG - STORAGE/MEETING RM 103	1	20	47	48	20	1	SPARE
LTG - PODIUM / CAR DISPLAY	1	20	49	50	20	1	SPARE
LTG - OPEN AREA LOBBY 101/VEST.	1	20	51	52	20	1	SPARE
LTG - WALL WASH LOBBY AREA	1	20	53	54	20	1	SPARE
LTG - LOBBY/PADDOCK LINEARS	1	20	55	56	20	1	SPARE
LTG - KITCHEN/STORAGE/OFFICE	1	20	57	58	20	1	SPARE
LTG - BAR / PADDOCK LOUNGE	1	20	59	60	20	1	SPARE
LTG - BAR SHELVES	1	20	61	62	20	1	SPARE
SPARE	1	20	63	64	20	1	SPARE
SPARE	1	20	65	66	20	1	SPARE

LCK - LOCKABLE TAB

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/20/2022

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project number 2214800

RYAN JEROD DIEDIKER
NUMBER PE-2015006511
7/19/22

K1 SPEED LEE'S SUMMIT
Entertainment Complex

2911 NE Independence Ave.
Lee's Summit, MO 64064

Revisions:

Project #: 211107

CONSTRUCTION DOCUMENTS
July 19, 2022

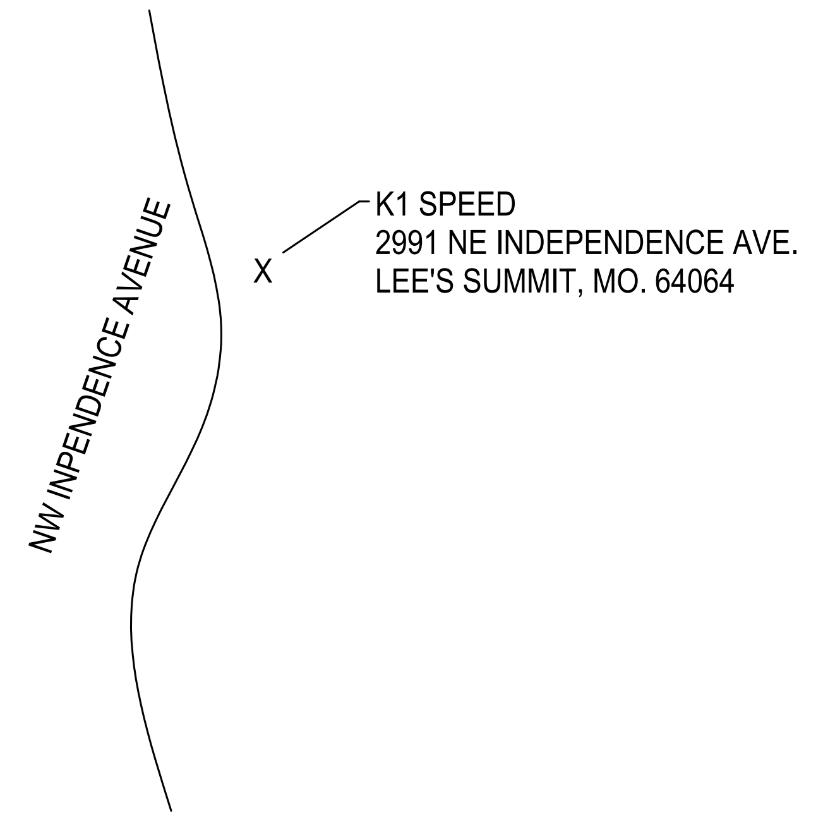
ELECTRICAL - SCHEDULES AND DETAILS

E304

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/20/2022

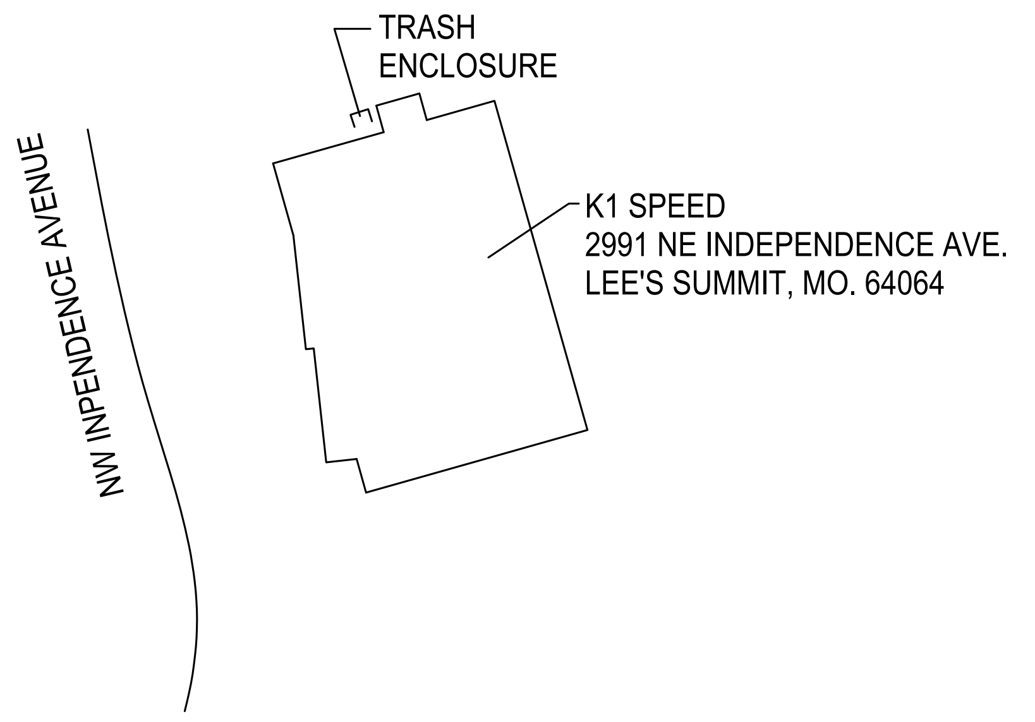
SANITATION NOTES

1. WATER FOR THIS FACILITY IS PROVIDED BY LEE'S SUMMIT WATER UTILITIES
2. SEWER FOR THIS FACILITY IS PROVIDED BY LEE'S SUMMIT WATER UTILITIES
3. TOTAL SQUARE FOOTAGE OF THIS FACILITY IS 1550
4. ALCOHOLIC BEVERAGES
   X WILL BE CONSUMED ON THE PREMISES
   ____ WILL NOT BE CONSUMED ON THE PREMISES
5. THIS ESTABLISHMENT WILL BE
   X 100 % SINGLE SERVICE
   ____ MULTI SERVICE EATING & DRINKING UTENSILS
6. ALL EQUIPMENT MUST BE FURNISHED & INSTALLED IN ACCORD WITH NSF, UL, AGA & AND ALL APPLICABLE STANDARDS.
7. EACH HAND SINK MUST HAVE SINGLE SERVICE TOWEL DISPENSER & SOAP DISPENSER ADJACENT.
8. ALL LAVATORIES OR HAND SINKS MUST HAVE A COMBINATION OR PREMIXING FAUCET CAPABLE OF SUPPLYING HOT WATER FOR A MINIMUM OF TEN SECONDS.
9. THE JANITORIAL SINK FAUCET MUST HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE.
10. ALL SINKS MUST BE PROVIDED WITH 120 DEGREE HOT WATER AND COLD WATER
11. FLOORS IN FOOD SERVICE ESTABLISHMENTS [EXCEPT IN DINING AREAS] SHALL BE DURABLE SMOOTH AND IMPERVIOUS TO WATER, GRAESE, AND ACID; AND BE OF EASILY CLEANABLE CONSTRUCTION, E.G. QUARRY OR CERAMIC TILE. FLOOR SURFACES IN ALL AREAS WHERE FOOD IS PREPARED , PACKAGED, DISPENSED OR STORED , WHERE ANY UTENSIL IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED , IN ALL TOILET AND HANDWASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE AREAS SHALL BE AN APPROVED TYPE THAT CONTINUES UP WALL OR TOEKICK OF COUNTERS AND EQUIPMENT THAT SETS FLUSH ON THE FLOOR. THIS WOULD INCLUDE SELF SERVICE FOOD AND BEVERAGE COUNTERS AND EQUIPMENTTHAT HAS OPEN FOOD OR BEVERAGES . THE COVE BASE MUST EXTEND UP AT LEAST 4" AND HAVE A MINIMUM 3/8" RADIUS AT JUNCTURE WITH FLOOR. VINYL TOPSET BASE IS NOT ACCEPTABLE.
12. FLOORING UNDER EQUIPMENT AND ON COVED BASES SHALL BE COMPLETELY SMOOTH. FLOOR SURFACES THAT CONTAIN NON-SKID AGENTS SHALL BE RESTRICTED TO TRAFFIC AREAS ONLY. HIGH PRESSURE HOT WATER CLEANING SYSTEMS ARE REQUIRED IN ADDITION TO FLOOR DRAINS IF THE DEGREE OF ROUGHNESS OF THE NON-SKID AGENT IS DEEMED EXCESSIVE UPON EVALUATION BY ENVIRONMENTAL HEALTH DEPT. INSPECTOR.
13. WALLS IN ALL AREAS EXCEPT DINING SHALL BE DURABLE, SMOOTH AND NON-ABSOBENT WITH LIGHT COLORED, EASILY CLEANABLE WASHABLE FINISH. SEE FINISH SCHEDULE. WALL SURFACE MATERIALS ARE SUBJECT TO EVALUATION AND MAY REQUIRE SUIBMISSION OF SAMPLES.
14. ALL WALL SURFACES [EXCEPT IN DINING AREAS] SHALL BE COVERED WITH GLOSS OR SEMI-GLOSS ENAMEL, EPOXY, FRP, CERAMIC TILE, SYNTHETIC ENAMEL OR OTHER APPROVED MATERIAL.
15. ALL WALLS BEHIND SINKS AND DISHWASHERS MUST BE PROTETED WITH AT LEAST 8' HIGH WATER RESISTANT MATERIAL E.G. FRP, STAINLESS STEEL, CERAMIC TILE OR OTHER APPROVED MATERIAL.
16. CEILINGS IN ALL AREAS [EXCEPT DINING AREAS] SHALL BE DURABLE, SMOOTH AND NON-ABSORBENT, WITH A LIGHT COLORED, EASILY CLEANABLE, WASHABLE FINISH. BLOWN ACCOUSTICAL TYPE CEILING IS NOT ACCEPTABLE.
17. WAITRESS STATIONS, SALAD BARS, FOOD SERVING OR SELF SERVICE OPEN FOOD COUNTERS, OR OTHER SIMILAR STATIONS LOCATED IMMEDIATELY ADJACENT TO OR IN DINING AREAS MUST COMPLY WITH FLOOR, WALL, BASE AND CEILING REQ'MENTS.
18. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. WHERE THIS IS NOT POSSIBLE, ALL LINES SHALL BE AT LEAST 3/4" AWAY FROM WALLS AND CEILINGS AND 6" ABOVE FLOOR.
19. WHERE CONDUIT OR PIPE LINES PENETRATE A WALL, CEILING OR FLOOR THE OPENING AROUND THE LINE MUST BE TIGHTLY SEALED.
20. CONDUIT OR PIPE LINES SHALL NOT BE INSTALLED ACROSS ANY AISLE, TRAFFIC AREA OR DOOR OPENING.
21. ALL CONDENSATE OR SIMILAR LIQUID WASTE SHALL BE DRAINED BY MEANS OF RIGID WASTE LINE INDIRECTLY TO A FLOOR SINK VIA LEGAL AIR GAP.
22. INDIRECT DRAIN LINES SHALL BE AT LEAST 3/4" FROM WALLS AND 6" ABOVE FLOOR AND SHALL TERMINATE AT LEAST 1" ABOVE FLOOR SINK.
23. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH THE FLOOR SURFACE AND HAVE AN APPROPRIATE GRATE.
24. FLOORS SINKS SHALL BE LOCATED SO THEY ARE EASILY ACCESIBLE FOR INSPECTION, CLEANING & SERVICING. A PROTECTIVE ENCLOSURE WILL BE REQUIRED AROUND THE BACKSIDE OF HALF EXPOSED FLOOR SINKS INSTALLED UNDER CURB OR BASE MOUNTED EQUIPMENT TO PREVENT ANY WASTE WATER BACKFLOW UNDER THE EQUIPMENT.
25. FLOOR SINKS MUST BE LOCATED WITHIN 15' OF THE DRAIN OPENING OF THE EQUIPMENT SERVED.
26. AN APPROVED BACKFLOW PREVENTER SHALL BE INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SYSTEM AND ANY SOURCE OF CONTAMINATION, E.G. ALL THREADED WATER OUTLETS, MOP SINKS, SPRAYERS, DISHWASHERS, ETC..
27. ALL EQUIPMENT GIVING OFF WASTES OR CONDENSATE ARE REQUIRED TO BE DIRECTLY CONNECTED TO WASTE SYSTEM OR DRAIN TO TRAPPED FLOOR SINKS WITH A LEGAL AIR GAP. SEE FOODSERVICE EQUIPMENT SCHEDULE.
28. GREASE TRAPS WHEN REQUIRED MUST BE INSTALLED BELOW THE FLOOR SURFACE AND THE LID MUST BE FLUSH WITH FINISH FLOOR.
29. FOOD FACILITIES USING MULTI-SERVICE CONSUMER UTENSILS MUST BE PROVIDED WITH AN APPROVED 3 COMPARTMENT SINK PER EHP-883 CODE OR AN APPROVED DISHWASHING MACHINE.
30. ALL SPRAY TYPE DISHWASHERS AND GLASSWASHERS WHICH ARE DESIGNED FOR HOT WATER BACTERIAL RINSE SHALL BE PROVIDED WITH A BOOSTER HEATER THAT MEETS THE REQUIREMENTS OF STANDARD NO. 5 OF THE NATIONAL SANITATION FOUNDATION OR BE CONNECTED TO AN APPROVED RECIRCULATING WATER SYSTEM CAPABLE OF MAINTAINING RINSE WATER AT NOT LESS THAN 180 F.THESE DISHWASHERS REQUIRE AN APPROVED EXHAUST HOOD
31. DISHWASHERS AND GLASSWASHERS MUST HAVE TWO INTEGRAL STAINLESS STEEL DRAINBOARDS AT LEAST 18" LONG. DRAINBOARDS FOR UNDERCOUNTER MACHINES MAY BE ADJACENT TO THE MACHINE.
32. PROVIDE SANITIZING TEST EQUIPMENT AND MATERIALS TO ADEQUATELY MEASURE THE APPLICABLE CHEMICAL SANITIZER AT THE DISHWASHER/ GLASSWASHER.
33. MOP SINKS FOR FACILITIES USING FLOOR MATS ARE TO BE FLOOR MOUNTED TYPE AND BE LARGE ENOUGH TO ACCOMODATE FLOOR MATS.
34. KITCHEN UTENSIL AND CONSUMER UTENSIL SINK MINIMUM COMPARTMENT AND DRAINBOARD SIZES ARE TO BE AS FOLLOWS:
    COMPARTMENTS: 18" X 18" X 12" DEEP
    DRAINBOARDS: 18" X 18"
    THE COMPARTMENTS AND DRAINBOARDS MUST FURTHER BE ABLE TO ACCOMODATE THE LARGEST UTENSILS TO BE WASHED.
35. BAR SINKS SHALL HAVE A MINIMUM COMPARTMENT SIZE OF 10" X 14" X 10" DEEP [OR A MINIMUM OF 140 SQUARE INCHES SURFACE AREA], AND HAVE DUAL INTEGRAL DRAINBOARDS AT LEAST 18" LONG. BAR SINKS SHALL HAVE A QUICKDRAIN OR A 4TH COMPARTMENT FOR DISPOSAL OF DRINKS ICE / WASTE. BAR SINKS SHALL DRAIN TO A FLOOR SINK VIA LEGAL AIR GAP.
36. ALL FOOD PREPARATION AREAS, ALL DISHWASHING AREAS AND ALL BAR AREAS [EXCEPT WHERE ALCOHOLIC BEVERAGE UTENSILS ARE WASHED] MUST BE PROVIDED WITH AT LEAST 50 FOOT CANDLES OF LIGHT 30" ABOVE THE FLOOR.
37. FOOD AND UTENSIL STORAGE AREAS, BARWASHING, REFRIGERATION STORAGE, TOILET AND DRESSING ROOMS MUST BE PROVIDED WITH AT LEAST 10 FOOT CANDLES OF LIGHT.
38. A MINIMUM OF 50 FOOT CANDLES OF LIGHT MUST BE PROVIDED IN ALL AREAS DURING CLEAN-UP ACTIVITIES.
39. FLOOR MATS
    ____ WILL BE USED IN THIS FACILITY
    X WILL NOT BE USED IN THIS FACILITY
40. IF FLOOR MATS ARE USED A FLOOR MOUNTED MOP SINK OF ADEQUATE SIZE OR A CAN WASH AREA MUST BE PROVIDED.
41. ALL EXTERIOR DOORS MUST OPEN OUTWARD AND BE SELF CLOSING.
42. TRASH ENCLOSURE INTERIOR WALL SURFACES ARE TO BE SMOOTH AND EASILY CLEANABLE. TRASH ENCLOSURE TO HAVE A CONCRETE SLAB.
43. LIGHTS IN FOOD PREP., WORK AND STORAGE AREAS SHALL BE PROVIDED WITH SHATTER SHIELDS.
44. ALL SINKS INSTALLED AGAINST A WALL MUST HAVE AN INEGRAL BACKSPLASH AT LEAST 8" HIGH.
45. TOILET ROOM DOORS MUST BE SELF CLOSING AND TIGHT FITTING.
46. TOILET ROOMS, DRESSING ROOMS AND JANITOR CLOSETS WITH MOP SINKS MUST BE PROVIDED WITH MINIMUM 12 AIR EXCHANGES PER HOUR BY MECHANICAL VENTILATION.
47. THERE WILL BE NO THAN
    4 EMPLOYEES PER SHIFT.
48. IF RESTROOMS FOR THIS FACILITY ARE IN A COMMON AREA THE OWNER / OPERATOR MUST PROVIDE A LETTER STATING THAT HE / SHE RECOGNIZES THE RESPONSIBILITY FOR MAINTENANCE OF THE RESTROOMS TO MEET SAN DIEGO HEALTH DEPARTMENT STANDARDS.
49. CARBONATOR FOR SODA SYSTEM TO BE PROTECTED BY A REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION DEVICE. RELIEF VALVE TO DRAIN TO FLOOR SINK VIA LEGAL AIR GAP.
50. SHELVING IN WET AREAS [MOP SINK, HAND SINKS, ETC.] TO BE METAL.
51. FLOOR SINKS TO BE LOCATED SO THEY ARE EASILY ACCESSIBLE FOR CLEANING AND SERVICING.
52. EQUIPMENT CANNOT DRAIN TO A FLOOR DRAIN. IT MUST DRAIN TO A FLOOR SINK.
53. ALL FOOD RELATED AND UTENSIL RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO ALL APPLICABLE SANITATON STANDARDS.
54. ALL CHEMICAL INJECTION SYSTEMS TO BE INSTALLED DOWN STREAM OF A PROPELY INSTALLED, TESTABLE BACKFLOW PREVENTION DEVICE OR AIR GAP. THE SYSTEM SHALL NOT BE DIRECTLY OR INDIRECTLY CONNECTED TO MOP SINK FAUCET OUTLET.
55. GREASE TRAPS WHEN REQUIRED SHALL NOT BE INSTALLED IN KITCHEN, FOOD PREP, FOOD STORAGE OR WORK AREAS, WITH THE EXCEPTION OF ROOMS DEDICATED TO TRASH OR JANITORIAL SERVICES.



VICINITY MAP

N



SITE PLAN

N

REVISIONS	BY

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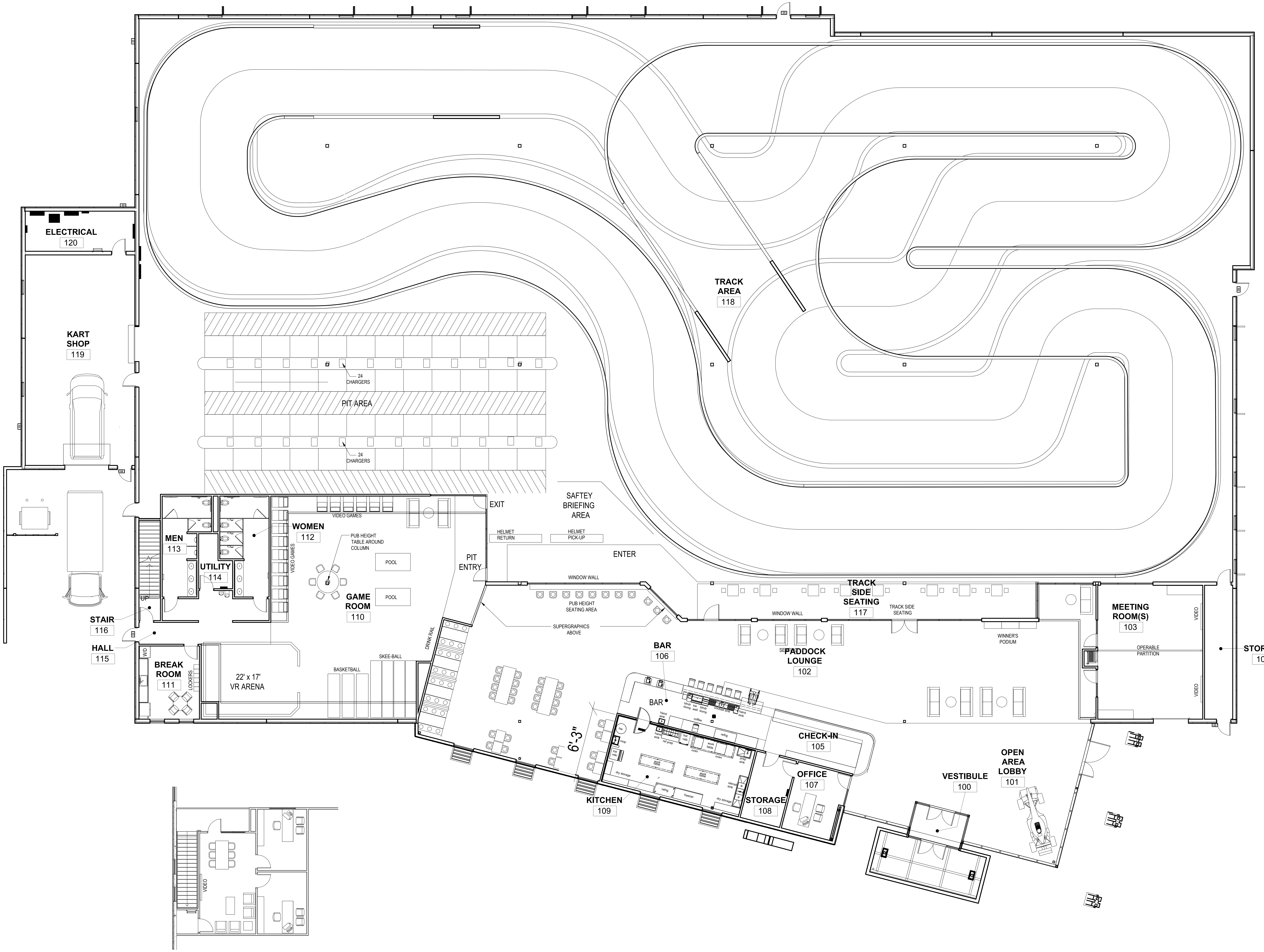
ECONOMY
RESTAURANT
EQUIPMENT & SUPPLY CO.

DATE 7-07-2022
SCALE N/A
DRAWN BY MAO
JOB 22227
SHEET
K-1
OF 4 SHEETS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/20/2022

REVISIONS	BY



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DATE	7-07-2022
SCALE	N/A
DRAWN BY	MAO
JOB	22227

SHEET
K-2
OF 4 SHEETS

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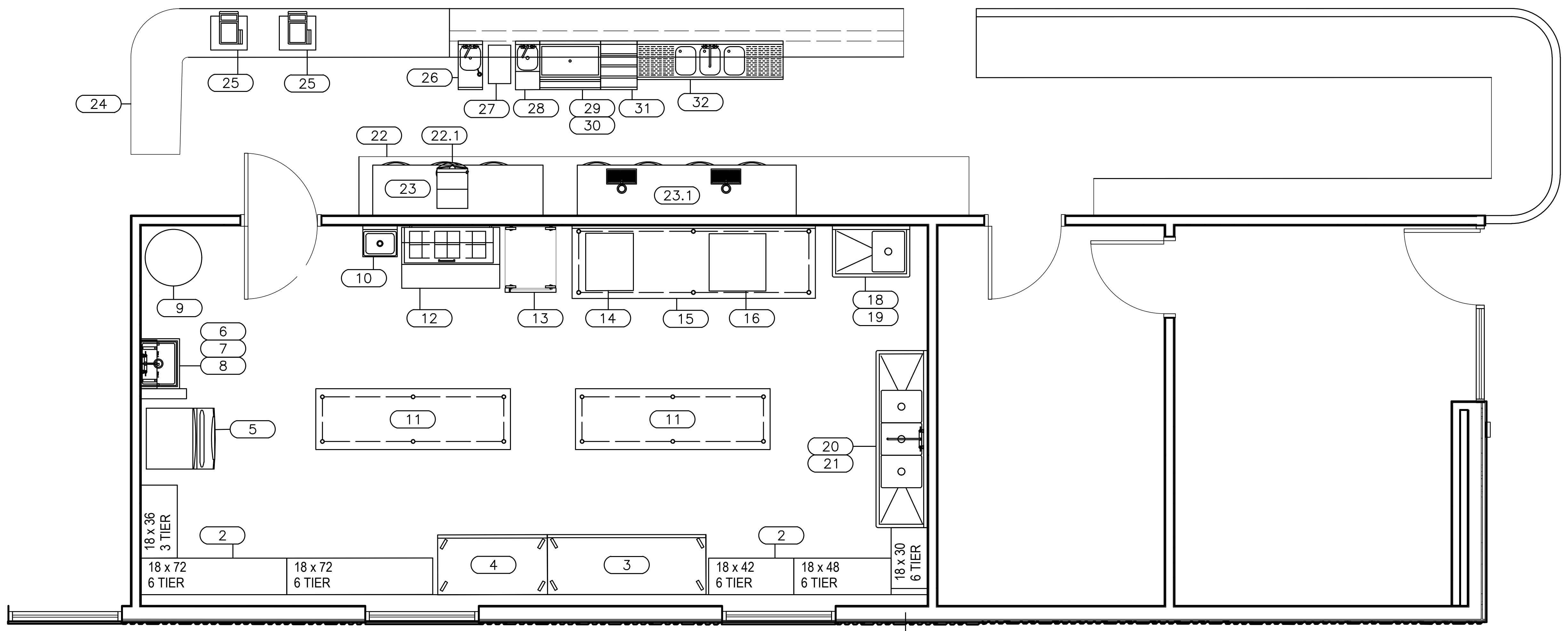
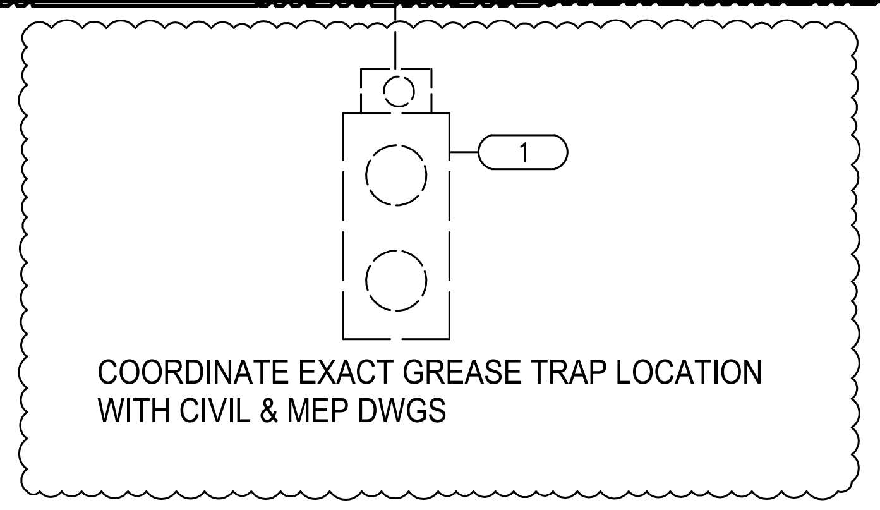
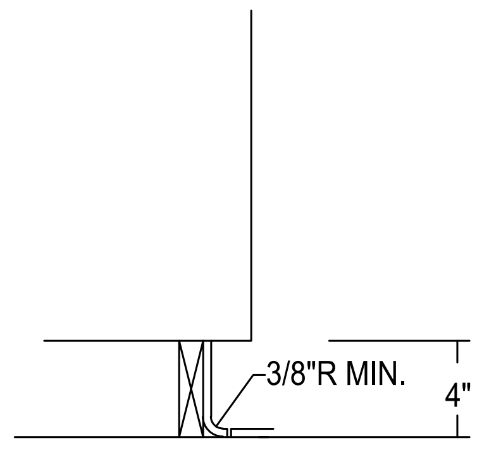
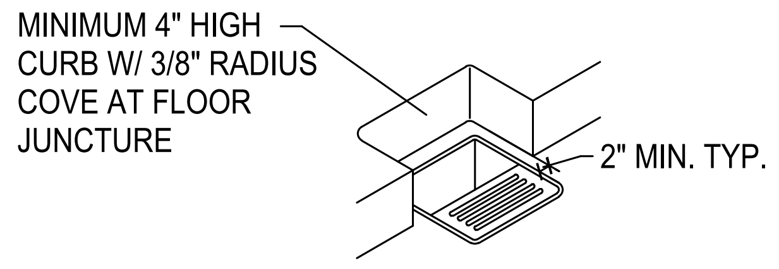




COORDINATE EXACT GREASE TRAP LOCATION WITH CIVIL & MEP DWGS



TYPICAL CURB DETAIL



PROTECTIVE ENCLOSURE DETAIL FOR CURB OR BASE MTD EQUIPMENT

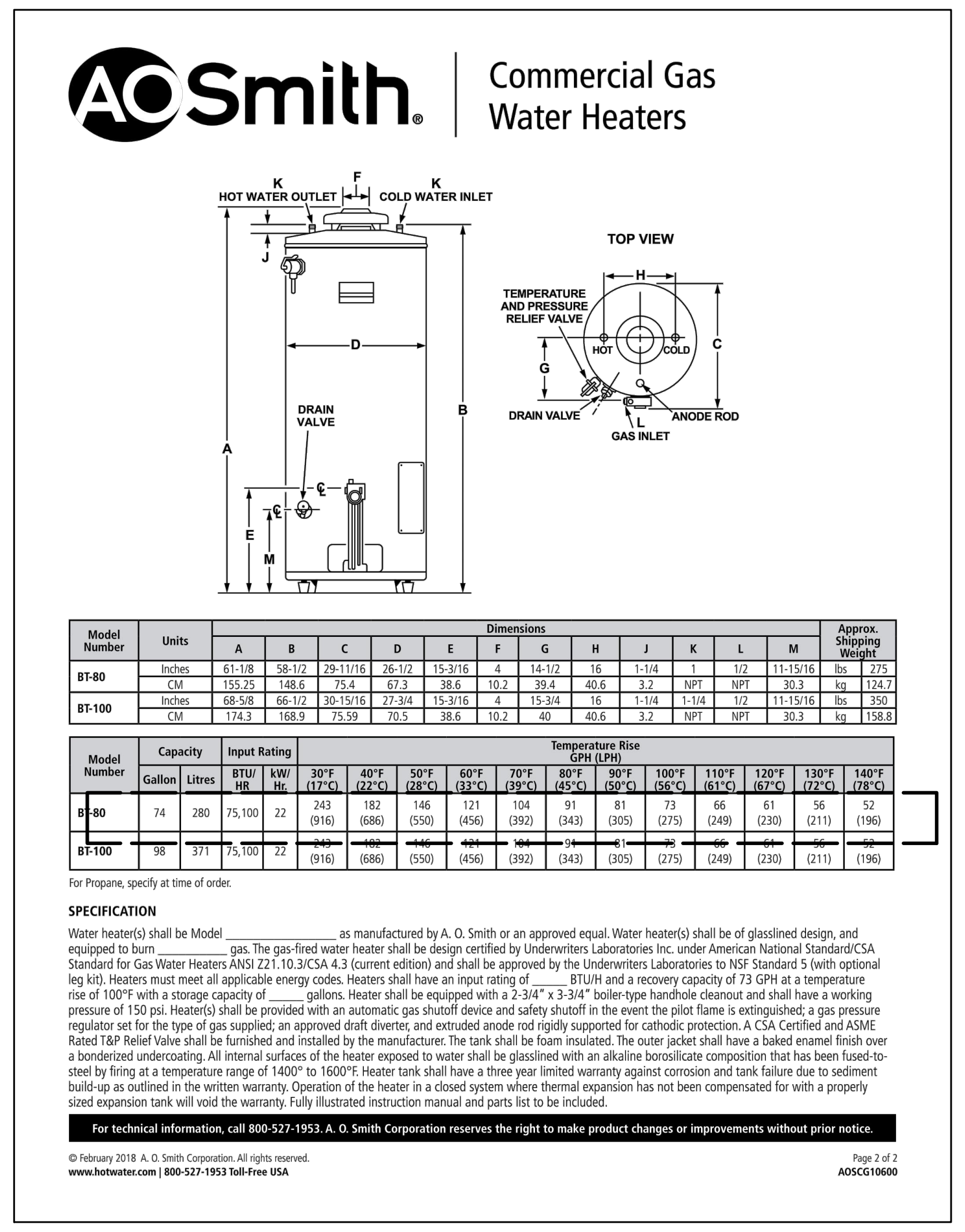
EQUIPMENT SCHEDULE

Item No	Qty	By	Equipment Category	Manufacturer	Model Number	Base	Volts	Amps	KW	HP	Phase	Direct	Plug	NEMA	Remarks	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)	MBTUH	Gas Size (in)	Remarks
1	1	GC	Gease Interceptor	Verify		Recss'd																Verify w/ Supplier
2	Lot	KEC	25 Lin. Ft. 6 Tier Storage Shelving	Olympic		Posts																
3	1	KEC	Freezer, Reach–In	True Manufacturing Co., Inc.	T–72F–HC	Casters	115	12.0	1.4	1.0	1		X	–5–20P								Self Contained
4	1	KEC	Refrigerator, Reach–In	True Foodservice	T–49–HC	Casters	115	5.4	1.1	1/2	1											Self Contained
5	1	KEC	Ice Maker w/ Bin	Manitowoc Ice	IDT0500A–161 /D–570	6" Legs	115	14.2			1	X				0.375			0.5			
5			Continued																0.75			
6	1	KEC	Sink, Mop	John Boos & Co.	PBMS2016–6	Deck Mt												2				
7	1	KEC	Faucet, Service Sink	Fisher	8253	Wall Mt										0.5	0.5					Backing By GC
8	1	KEC	Shelf, Mop & Broom Rack	John Boos & Co.	PB–MSS824	Wall Mt																Backing By GC
9	1	GC	74 Gal. Comm. Water Heater	AO Smith	BT80	Curb	120								Verify w/ Supplier	1				75	0.5	Verify w/ Supplier
10	1	KEC	Hand Sink w/ Soap & Towel Disp.	John Boos & Co.	PBHS–W–1410–1–SSLR	Wall Mt													1.5			Backing By GC
11	2	KEC	Table, Work	John Boos & Co.	ST6–3096SSK	EC																
12	1	KEC	Refrigerator, Sandwich/Salad Prep	True Manufacturing Co., Inc.	TSSU–48–12D–2–HC	Casters	115	5.8	0.7	0.3	1		X	5–15P								Self Contained
13	1	KEC	Cabinet, Holding/Proofing	Metro	C517–FC	Casters																
14	1	KEC	Oven, Microwave/Convection, Combi	TurboChef	I3–9500–1	Item 15	208	40.0	8.3		1		X	6–50P								
15	1	KEC	Table, Work	John Boos & Co.	ST6R5–36120SSK	KEC																
16	1	KEC	Oven, Microwave/Convection, Combi	TurboChef	I5–9500–1	Item 15	208	46.0	9.5		1		X	6–50P								
18	1	KEC	Sink, Scullery, 1 Compartment	John Boos & Co.	1B16204–1D18R	Legs													1.75			
19	1	KEC	Faucet, Backsplash Mount	Fisher	13242	Item 18										0.5	0.5					
20	1	KEC	Sink, Scullery, 3 Compartments	John Boos & Co.	3B16204–2D18	Legs													1.75			
21	1	KEC	Faucet, Backsplash Mount	Fisher	13218	Item 22										0.5	0.5					
22	Lot	GC	Back Counter	Custom Millwork & Stone		Curb																
22.1	1	KEC	Dispenser, Liquid Coffee Concentrate	Bunn–O–Matic	38800.0000	Item 20	120	11.9	1.4		1		X	5–15P		0.375						
23	1	KEC	Refrigerator, Reach–In	True Foodservice	TBR84–RISZ1–L–B–GGG–1																	Self Contained
23.1	1	KEC	Underbar Refrigeration	True Foodservice	TDR108–RISZ1–L–B–SSSS–1						1								0.5			
24	Lot	GC	Front Counter / Bar Top & Die Wall	Custom Millwork & Stone		Deck Mt																
25	Lot	OW	POS System	Verify		Item 24	120	15.0			1	X										
26	1	KEC	Handsink w/Soap & Towel Dispenser	Krowne	KR24–12ST	Legs										0.5	0.5	1.5				
27	1	KEC	Slim Jim trash	Rubbermaid	FG354060GRAY	Deck Mt																
28	1	KEC	Underbar Blender Station	Krowne	KR24–12BD	Legs	120	15.0			1	X				0.5	0.5		1.5			
29	1	KEC	Underbar Ice Chest	Krowne	KR19–30DP	Legs													1			
30	1	KEC	Underbar Speed Rail	Krowne	RS–30	Item 29																
31	1	KEC	Underbar Liquor Display	Krowne	KR24–18RD	Legs																
32	1	KEc	Underbar Sink	Krowne	KR19–63C	Legs										0.5	0.5		1.5			

WATER HEATER CALCULATIONS

(1) 3 COMP. SINK=	42 GPH
(1) PREP SINK=	5 GPH
(1) MOP SINK=	15 GPH
(5) HAND SINKS=	25 GPH
(1) WASHER=	10 GPH

TOTAL = 97 GPH @ 60 DEGREE RISE


K
HOT WATER OUTLET
F
K
COLD WATER INLET
J
D
DRAIN VALVE
A
B
E
M
TOP VIEW
H
TEMPERATURE AND PRESSURE RELIEF VALVE
HOT
COLD
C
G
DRAIN VALVE
L
GAS INLET
ANODE ROD

AOSmith | Commercial Gas Water Heaters

Model Number	Units	Dimensions												Approx. Shipping Weight	
		A	B	C	D	E	F	G	H	J	K	L	M		
BT-80	Inches	61-1/8	58-1/2	29-11/16	26-1/2	15-3/16	4	14-1/2	16	1-1/4	1	1/2	11-15/16	lbs	275
	CM	155.25	148.6	75.4	67.3	38.6	10.2	39.4	40.6	3.2	NPT	NPT	30.3	kg	124.7
BT-100	Inches	68-5/8	66-1/2	30-15/16	27-3/4	15-3/16	4	15-3/4	16	1-1/4	1-1/4	1/2	11-15/16	lbs	350
	CM	174.3	168.9	75.59	70.5	38.6	10.2	40	40.6	3.2	NPT	NPT	30.3	kg	158.8

Model Number	Capacity		Input Rating		Temperature Rise GPH (LPH)											
	Gallon	Litres	BTU/ HR	kW/ Hr.	30°F (17°C)	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (45°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (72°C)	140°F (78°C)
BT-80	74	280	75,100	22	243 (916)	182 (686)	146 (550)	121 (456)	104 (392)	91 (343)	81 (305)	73 (275)	66 (249)	61 (230)	56 (211)	52 (196)
BT-100	98	371	75,100	22	243 (916)	182 (686)	146 (550)	121 (456)	104 (392)	91 (343)	81 (305)	73 (275)	66 (249)	61 (230)	56 (211)	52 (196)

For Propane, specify at time of order.

SPECIFICATION

Water heater(s) shall be Model __________________ as manufactured by A. O. Smith or an approved equal. Water heater(s) shall be of glasslined design, and equipped to burn ____________ gas. The gas-fired water heater shall be design certified by Underwriters Laboratories Inc. under American National Standard/CSA Standard for Gas Water Heaters ANSI Z21.10.3/CSA 4.3 (current edition) and shall be approved by the Underwriters Laboratories to NSF Standard 5 (with optional leg kit). Heaters must meet all applicable energy codes. Heaters shall have an input rating of ______ BTU/H and a recovery capacity of 73 GPH at a temperature rise of 100°F with a storage capacity of ______ gallons. Heater shall be equipped with a 2-3/4" x 3-3/4" boiler-type handhole cleanout and shall have a working pressure of 150 psi. Heater(s) shall be provided with an automatic gas shutoff device and safety shutoff in the event the pilot flame is extinguished; a gas pressure regulator set for the type of gas supplied; an approved draft diverter, and extruded anode rod rigidly supported for cathodic protection. A CSA Certified and ASME Rated T&P Relief Valve shall be furnished and installed by the manufacturer. The tank shall be foam insulated. The outer jacket shall have a baked enamel finish over a bonderized undercoating. All internal surfaces of the heater exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400° to 1600°F. Heater tank shall have a three year limited warranty against corrosion and tank failure due to sediment build-up as outlined in the written warranty. Operation of the heater in a closed system where thermal expansion has not been compensated for with a properly sized expansion tank will void the warranty. Fully illustrated instruction manual and parts list to be included.

For technical information, call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.

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Page 2 of 2
AOSCG10600

FINISH SCHEDULE

AREA	C'LING	WALLS	FLOOR	BASE
REST ROOM	2	3, 48" HIGH	5	6
KITCHEN/STORAGE	1	2	5	6
SERVICE	1	2	5	6
WET AREAS	1	3, 96" HIGH	5	6

1	T-BAR W/ LIGHT COLOR WASHABLE TILES
2	LIGHT COLOR SEMI-GLOSS PAINT OVER 5/8" TYPE X DRYWALL
3	"FRP" OVER 5\8" TYPE X DRYWALL
4	COMERCIAL GRADE SHEET VINYL W 3/8" R, 4" HIGH, SELF COVE
5	SEALED CONCRETE W/ USDA APP'D SEALANT
6	"SLIM FOOT" CERAMIC TILE W/ 3/8" R COVE
7	CERAMIC TILE
8	CERAMIC TILE W/ 3/8" R COVE
9	QUARRY TILE
10	QUARRY TILE W/ 3/8" R COVE
11	METAL
12	METAL W/ 3/8" R COVE
14	DECORATIVE, TO BE SELECTED
15	VCT

NOTE,
WALL & CEILING FINISHES IN WORK FOOD PREP. KITCHEN & STORAGE AREAS TO HAVE A REFLECTANCE VALUE OF 70% OR HIGHER

NOTE,
SUBMIT SAMPLE OF CEILING TILE TO ENVIRONMENTAL HEALTH PRIOR TO INSTALLATION

NOTE,
SUBMIT SAMPLE OF FLOOR COVERING TO ENVIRONMENTAL HEALTH PRIOR TO INSTALLATION

NOTE,
SUBMIT SAMPLE OF "SLIMFOOT" BASE TILE TO ENVIRONMENTAL HEALTH PRIOR TO INSTALLATION

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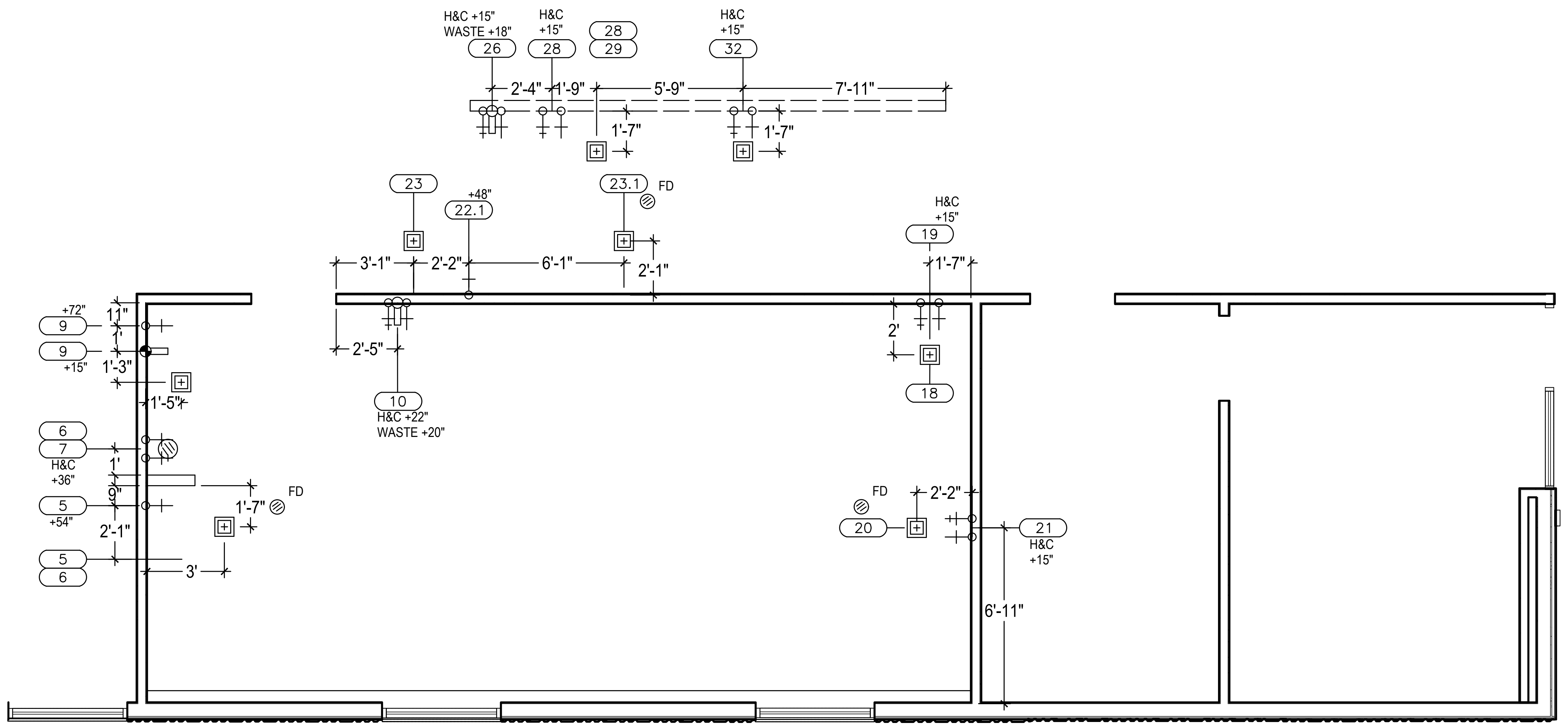
PLUMBING ROUGH-IN PLAN



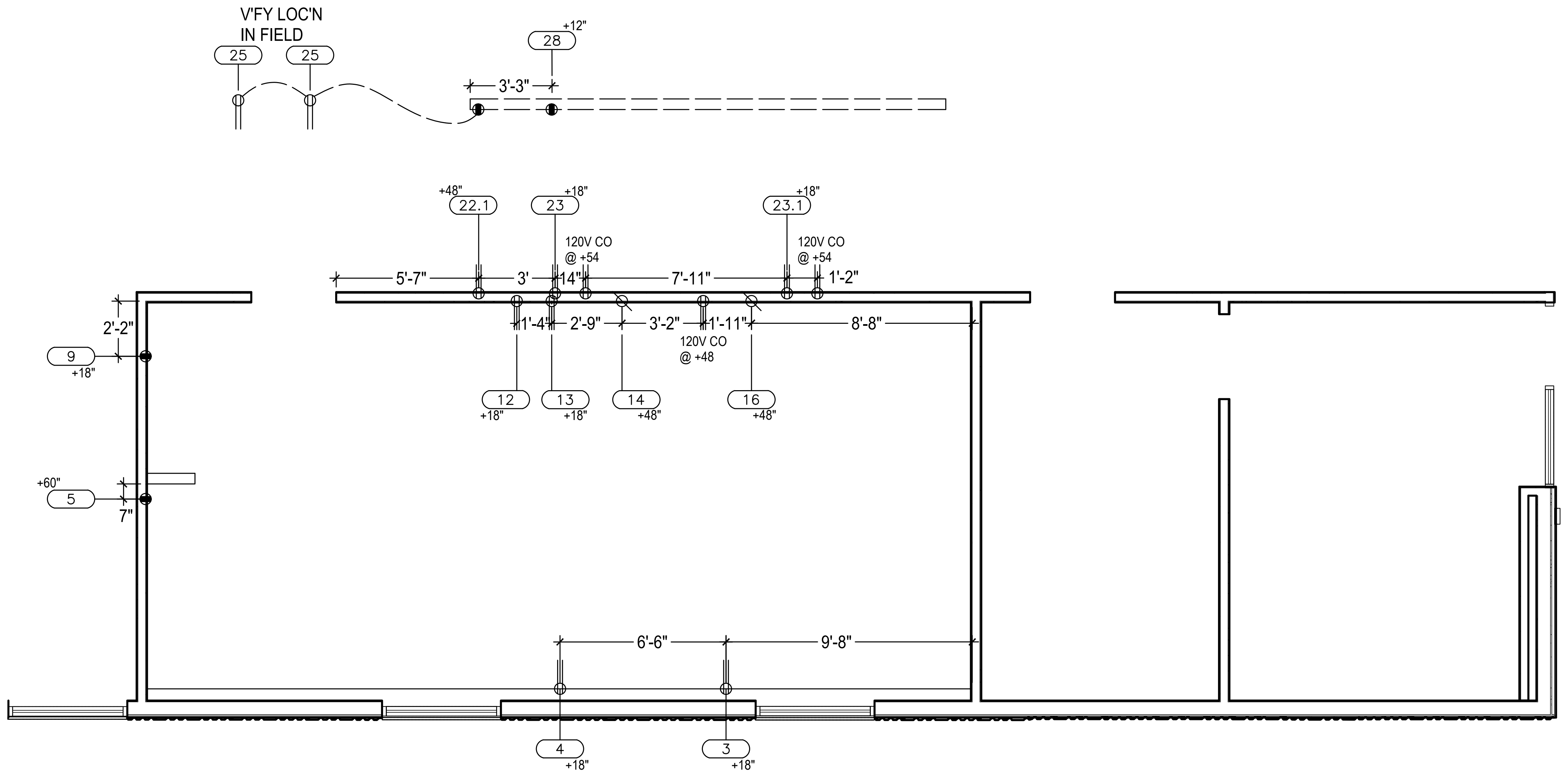
PLUMBING SYMBOLS

- HOT WATER
- COLD WATER
- DIRECT WASTE
- GAS
- FLOOR DRAIN
- FLOOR SINK

PLUMBING NOTES

1. UTILITY CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOODSERVICE EQUIPMENT ONLY. REFER TO OWNER, ARCHITECT AND OR GENERAL CONTRACTOR FOR FURTHER REQUIREMENTS.
2. PLUMBING CONTRACTOR SHALL REFER TO SANITATION NOTES AND ALL OTHER NOTES ON THESE DRAWINGS AND IS RESPONSIBLE TO PERFORM HIS WORK IN ACCORD WITH ALL GOVERNING CODES & REGULATIONS.
3. PLUMBING CONTRACTOR TO FURNISH & INSTALL ALL INDIRECT WASTE LINES INCLUDING CONDENSATE LINES FROM REFRIGERATION EQUIPMENT, ICE MACHINES, ICE BINS, WALK-INS,ETC..
4. PLUMBING CONTACTOR MUST OBTAIN ALL NECESSARY PERMITS FOR HIS WORK.
5. PLUMBING CONTRACTOR TO MAKE ALL ROUGH-INS & FINAL CONNECTIONS AND TO FURNISH & INSTALL ALL PIPING, TEES, ELBOWS, TRAPS, SHUT OFF VALVES, REGULATORS, FILTERS, ETC. AS REQUIRED TO MAKE A COMPLETE INSTALLATION.
6. ROUGH IN DIMENSIONS SHOWN ON THIS PLAN ARE FROM FACE OF FINISH WALL TO CENTER LINE OF OUTLET AND HEIGHTS ARE ABOVE FINISH FLOOR TO CENTER LINE OF OUTLET.
7. PLUMBING CONTRACTOR MUST SEAL [WATER TIGHT AND VERMIM PROOF] ALL WALL, CEILING AND FLOOR PENETRATIONS RESULTING FROM HIS WORK.
8. PLUMBING CONTRACTOR TO FURNISH & INSTALL SHUT OFF VALVES ON ALL GAS AND WATER LINES SO AS TO BE EASILY ACCESSIBLE.
9. PLUMBING CONTRACTOR TO INSULATE ALL CONDENSATE DRAINS AND FROM ICE BINS & MACHINES IN ORDER TO PREVENT CONDENSATION BUILD UP ON THESE LINES.
10. PLUMBING CONTRACTOR TO INSTALL GAS SHUT OFF VALVES PROVIDED BY THE FIRE EQUIPMENT CONTRACTOR.
11. PLUMBING CONTRACTOR TO FURNISH & INSTALL PRESSURE REGULATORS AT WARE WASHING MACHINES AND GAS EQUIPMENT AS REQUIRED.
12. PLUMBING CONTRACTOR TO FURNISH & INSTALL SHUT OFF VALVES ON STEAM TABLES, SALAD BAR AND ICE PAN DRAINS AS REQUIRED.
13. PLUMBING CONTRACTOR TO FURNISH & INSTALL ROUGH-INS AND FINAL CONNECTIONS FOR MAKE UP AIR UNITS INCLUDING DRAIN LINE TO ROOF DRAIN.
14. FLOOR TO BE SLOPED 1/4" PER 24" RADIUS TO FLOOR DRAINS
15. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER VIA LEGAL AIR GAP.

ELECTRICAL ROUGH-IN PLAN



ELECTRICAL SYMBOLS

- 120 V OUTLET
- 208/240 V OUTLET
- 120 V DIRECT CONN.
- 208/240 V DIR. CONN.
- 120/208/240 V DIR. CONN.
- LIGHT FIXTURE
- Ⓕ FIRE PULL BOX
- $ SWITCH

ELECTRICAL NOTES

1. UTILITY CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOODSERVICE EQUIPMENT ONLY. REFER TO OWNER, ARCHITECT AND OR GENERAL CONTACTOR FOR FURTHER REQUIREMENTS.
2. ELECTRICAL CONTRACTOR SHALL REFER TO SANITATION NOTES AND ALL OTHER NOTES ON THE DRAWINGS AND IS RESPONSIBLE TO PERFORM HIS WORK IN ACCORD WITH ALL GOVERNING CODES & REGULATIONS.
3. ELECTRICAL CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FOR HIS WORK.
4. ELECTRICAL CONTRACTOR TO MAKE ALL ROUGH-INS AND FINAL CONNECTIONS AND TO FURNISH & INSTALL CONDUIT, WIRE, BREAKERS, SWITCHES, ETC. AS REQUIRED TO MAKE A COMPLETE INSTALLTION.
5. ROUGH IN DIMENSIONS SHOWN ON THIS PLAN ARE FROM FACE OF FINISH WALL TO CENTER OF OUTLET AND HEIGHTS ARE ABOVE FINISH FLOOR TO CENTER LINE OF OUTLET.
6. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL WIRE & CONDUIT AS REQUIRED FOR CONTROL CIRCUITS ON WALK-IN FREEZERS.
7. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL ALL WIRE & CONDUIT AS REQUIRED FOR THE FIRE SUPRESSION SYSTEM FUEL SHUT OFF VALVE, ALARM SYSTEM TIE INS AND ALSO TO PROVIDE SHUNT TRIP BREAKERS AS REQUIRED TO SHUT DOWN ELECTRICAL EQUIPMENT UNDER THE EXHAUST HOOD.
8. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL ALL JUNCTION BOXES, OUTLET BOXES & PULL BOXES AS REQUIRED BY THESE PLANS.
9. ELECTRICAL CONTRACTOR TO VERIFY INCOMING SERVICE AND NOTIFY ECONOMY OF ANY DISCREPACIES BETWEEN THESE PLANS AND FIELD CONDITIONS OR LOCAL CODE REQUIREMENTS.
10. ELECTRICAL CONTRACTOR TO EXTEND CONDUIT STUB OUTS 6'-0" FOR FINAL CONNECTION UNLESS OTHERWISE SPECIFIED.
11. ELECTRICAL CONTRACTOR MUST SEAL [WATER TIGHT & VERMIN PROOF] ALL WALL, CEILING AND FLOOR PENETRATIONS RESULTING FROM HIS WORK.
12. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL STAINLESS STEEL COVER PLATES IN FOODSERVICE AREAS.
13. ELECTRICAL CONTRACTOR TO SHORTEN OR LENGTHEN AND FURNISH POWER CORDS AS REQUIRED.
14. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL WATER TIGHT FLEX CONDUIT IN ALL WET AREAS.
15. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL WIRE & CONDUIT FOR LIGHTS, SWITCHES, RELIEF PORT HEATERS, DOOR HEATERS AND TO INSTALL LIGHTS PROVIDED BY THE EXHAUST HOOD OR WALK-IN MANUFACTURERS.
16. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL CONDUIT FOR BEVERAGE OR REFRIGERATION LINES AS REQUIRED.
17. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL ROUGH-INS & FINAL CONNECTIONS TO ALL EXHUAST, MAKE UP AIR AND REFRIGERATION SYSTEMS ON ROOF COMPLETE WITH ALL DISCONNECTS AS REQUIRED BY CODE.
18. ELECTRICAL CONTRACTOR TO SEAL ALL CONDUITS ENTERING OR LEAVING THE WALK-IN COOLER OR FREEZER

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