

2751 NORTHEAST DOUGLAS STREET
LEE'S SUMMIT, MISSOURI 64064

CONSTRUCTION PLANS
FOR
LEE'S SUMMIT
MUNICIPAL AIRPORT

CITY PROJECT NO. 47732472

LXT HANGAR 2 AND EASTSIDE DEVELOPMENT

ISSUED-FOR-BID PLAN SET

JANUARY 04, 2024

CALL MISSOURI ONE-CALL SYSTEMS
BEFORE EXCAVATING
1-800-DIG-RITE

DESIGN AIRCRAFT - GEOMETRY
CANADAIR CL-600
AIRCRAFT APPROACH CATEGORY C
AIRPLANE DESIGN GROUP II
DESIGN AIRCRAFT - STRUCTURE
GRUMMAN GULFSTREAM IV
GROSS WEIGHT - 71,800 LBS
EQUIVALENT ANNUAL DEPARTURES - 651

MAXIMUM EQUIPMENT HEIGHT: 100'

UNICOM/CTAF FREQUENCY - 122.80



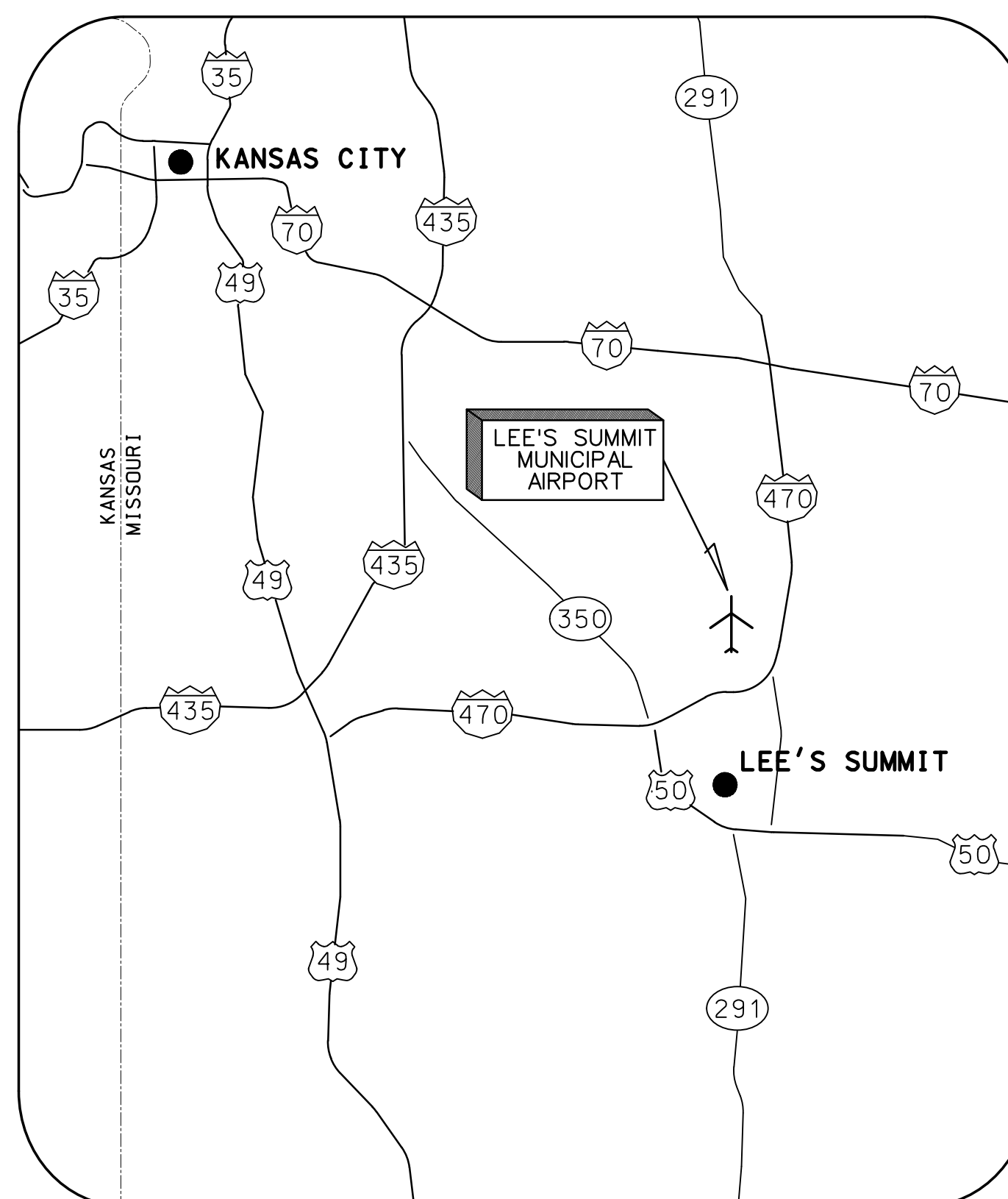
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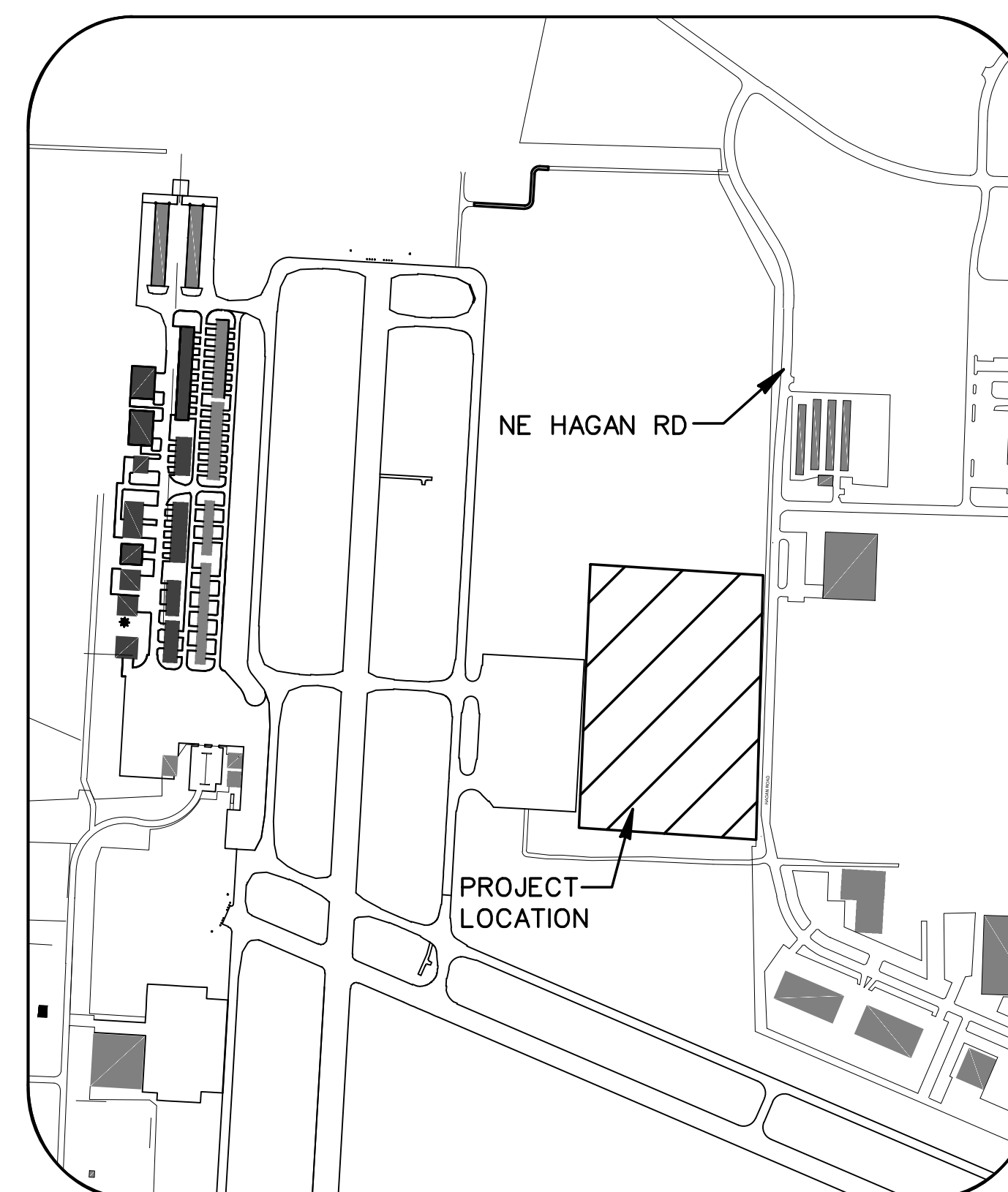
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
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■ KANSAS CITY, MO ■ LA BELLE, FL ■ MOLINE, IA

SUBMITTED BY TYLER HORN, PE

DATE JANUARY 04, 2024



LOCATION MAP



SITE PLAN



Path: K:\leessummitmo2201238-00Draw\Sheets\INDEX TO SHEETS AND SOO.dwg
Date: Wednesday, January 3, 2024 11:22:23



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108

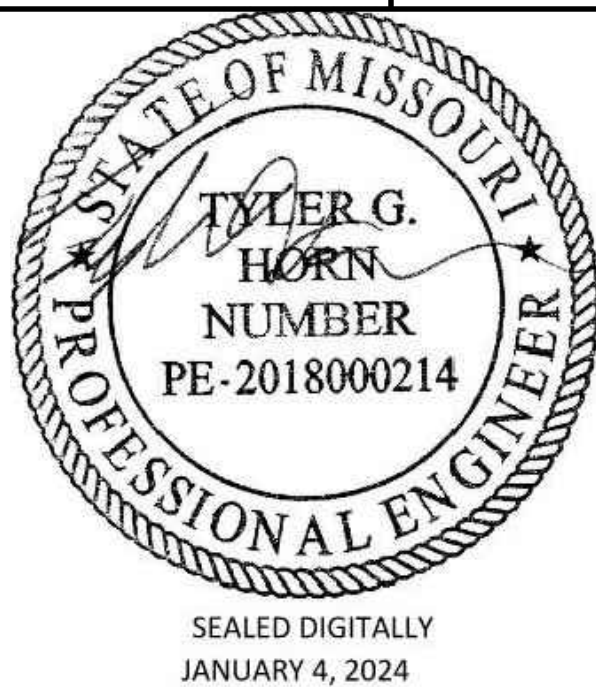


1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

SHEET LIST TABLE					
GENERAL DRAWINGS (SHEETS 1-7)		C135	LIGHTING SITE PLAN	S300	TYPICAL STEEL FRAMING DETAILS
G000	COVER SHEET	C136	SITE LIGHTING DETAILS	S301	STEEL FRAMING DETAILS
G001	INDEX TO SHEETS AND SUMMARY OF QUANTITIES	C137	AIRFIELD PAVEMENT JOINTING PLAN	S400	TYPICAL CMU FRAMING DETAILS
G002	CONRACTOR ACCESS AND STAGING	C138	AIRFIELD PAVEMENT JOINTING DETAILS	ELECTRICAL DRAWINGS (SHEETS 94-109)	
G003	CONSTRUCTION ACTIVITY PLAN	C139	AIRFIELD PAVEMENT STAKING PLAN	E001	GENERAL ELECTRICAL INFORMATION
G004	CRITICAL POINTS	ARCHITECTURAL DRAWINGS (SHEETS 51-81)		E002	SITE LIGHTING PHOTOMETRICS PLAN
G005	CAP NOTES	AG001	ARCHITECTURAL LEGEND AND ABBREVIATIONS	E003	ELECTRICAL SITE PLAN
G006	TRAFFIC CONTROL PLANS	AG002	CODE PLANS	E101	LIGHTING FLOOR PLANS
CIVIL DRAWINGS (SHEETS 8-50)		AG003	CODE INFORMATION AND WALL TYPES	E102	LIGHTING HANGAR FLOOR PLAN
C101	EXISTING CONDITIONS AND DEMOLITION SHEET	AG004	GENERAL ACCESSIBILITY	E201	POWER FLOOR PLANS
C102	SITE PLAN	AG005	INTERIOR ACCESSIBILITY	E202	POWER HANGAR PLAN
C103	PAVING PLAN	AG006	CODE INFORMATION	E301	SYSTEMS FLOOR PLANS
C103A	JOINTING PLAN SHEET 1	A100	ARCHITECTURAL SITE DETAILS	E302	SYSTEMS HANGAR PLAN
C103B	JOINTING PLAN SHEET 2	A101	OVERALL FLOOR PLAN LEVEL	E401	ENLARGED PLANS
C104	NORTH DRIVE PLAN & PROFILE	A102	FLOOR PLANS	E501	DIAGRAMS
C105	MIDDLE DRIVE PLAN & PROFILE	A111	OVERALL ROOF PLAN	E601	ELECTRICAL DETAILS
C106	SOUTH DRIVE PLAN & PROFILE	A121	OVERALL REFLECTED CEILING PLAN	E602	ELECTRICAL DETAILS
C107	GRADING PLAN	A122	REFLECTED CEILING PLAN	E701	ELECTRICAL SCHEDULES
C107A	GRADING DETAILS	A201	BUILDING ELEVATIONS	E702	ELECTRICAL SCHEDULES
C108	BASIN DETAIL	A301	BUILDING SECTIONS - SHEET 1	E703	ELECTRICAL SCHEDULES
C109	STORM PROFILE - SHEET 1	A302	BUILDING SECTIONS - SHEET 2	FIRE PROTECTION DRAWINGS (SHEETS 110-112)	
C110	STORM PROFILE - SHEET 2	A310	WALL SECTIONS - SHEET 1	FP001	GENERAL FIRE PROTECTION INFORMATION
C111	STORM PROFILE - SHEET 3	A311	WALL SECTIONS - SHEET 2	FP101	FIRE PROTECTION FLOOR PLANS
C112	STORM PROFILE - SHEET 4	A312	WALL SECTIONS - SHEET 3	FP102	FIRE PROTECTION HANGAR FLOOR PLAN
C113	UTILITY PLAN	A401	ENLARGED RESTROOM PLANS & ELEVATIONS - SHEET 1	MECHANICAL DRAWINGS (SHEETS 113-119)	
C114	SANITARY PLAN & PROFILE - SHEET 1	A402	ENLARGED RESTROOM PLANS & ELEVATIONS - SHEET 2	M001	GENERAL MECHANICAL INFORMATION
C114A	SANITARY PLAN & PROFILE - SHEET 2	A403	STAIR AND ELEVATOR DETAILS	M101	MECHANICAL FLOOR PLANS
C115	SANITARY PLAN & PROFILE - SHEET 3	A501	DETAILS	M102	MECHANICAL HANGAR FLOOR PLAN
C116	WATER LINE PLAN & PROFILE - SHEET 1	A601	DOOR/WINDOW SCHEDULE & DETAILS	M401	ENLARGED PLANS
C117	WATER LINE PLAN & PROFILE - SHEET 2	A602	DOOR/WINDOW DETAILS	M501	DIAGRAMS, RISER, PAD
C118	WATER LINE PLAN & PROFILE - SHEET 3	A603	ALUM. STOREFRONT DOOR/WINDOW SCHEDULE	M601	MECHANICAL DETAILS
C119	MARKING & SIGNAGE	A604	DOOR/WINDOW SCHEDULE & DETAILS	M701	MECHANICAL SCHEDULES
C120	MARKING & SIGNAGE DETAIL - SHEET 1	A610	FINISH SCHEDULE	PLUMBING DRAWINGS (SHEETS 120-128)	
C121	MARKING & SIGNAGE DETAIL - SHEET 2	A611	FINISH FLOOR PLANS	P001	GENERAL PLUMBING INFORMATION
C122	MARKING & SIGNAGE DETAIL - SHEET 3	A621	CASEWORK ELEVATIONS - SHEET 1	P101	DOMESTIC WATER & NATURAL GAS PIPING FLOOR PLANS
C123	EROSION CONTROL PLAN - PHASE 1	A622	CASEWORK ELEVATIONS - SHEET 2	P102	DOMESTIC WATER & NATURAL GAS PIPING HANGAR FLOOR PLAN
C124	EROSION CONTROL PLAN - PHASE 2	A623	ADA AND CODE SIGNAGE	P201	SANITARY PIPING FLOOR PLANS
C125	EROSION CONTROL DETAILS	STRUCTURAL DRAWINGS (SHEETS 82-93)		P202	SANITARY PIPING HANGAR FLOOR PLAN
C126	TYPICAL SECTIONS PLAN VIEW	S000	STRUCTURAL GENERAL NOTES	P401	ENLARGED PLANS
C127	TYPICAL SECTIONS - SHEET 1	S001	STRUCTURAL GENERAL NOTES	P501	DIAGRAMS, RISERS
C128	TYPICAL SECTIONS - SHEET 2	S002	SPECIAL INSPECTIONS	P601	PLUMBING DETAILS
C129	SITE DETAILS - SHEET 1	S100	FOUNDATION PLAN - OVERALL	P701	PLUMBING SCHEDULES
C130	SITE DETAILS - SHEET 2	S101	FOUNDATION PARTIAL PLANS	LANDSCAPING DRAWINGS (SHEETS 129-131)	
C131	FENCING PLAN	S102	MEZZANINE FRAMING PLAN	L100	OVERALL LANDSCAPE PLAN
C132	FENCING DETAILS SHEET	S200	TYPICAL FOUNDATION DETAILS	L101	LANDSCAPE LAYOUT PLAN
C133	SLIDING GATE DETAILS SHEET 1	S201	FOUNDATION DETAILS	L102	LANDSCAPE DETAILS
C134	SLIDING GATE DETAILS SHEET 2	S202	FOUNDATION DETAILS		



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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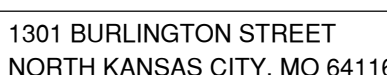
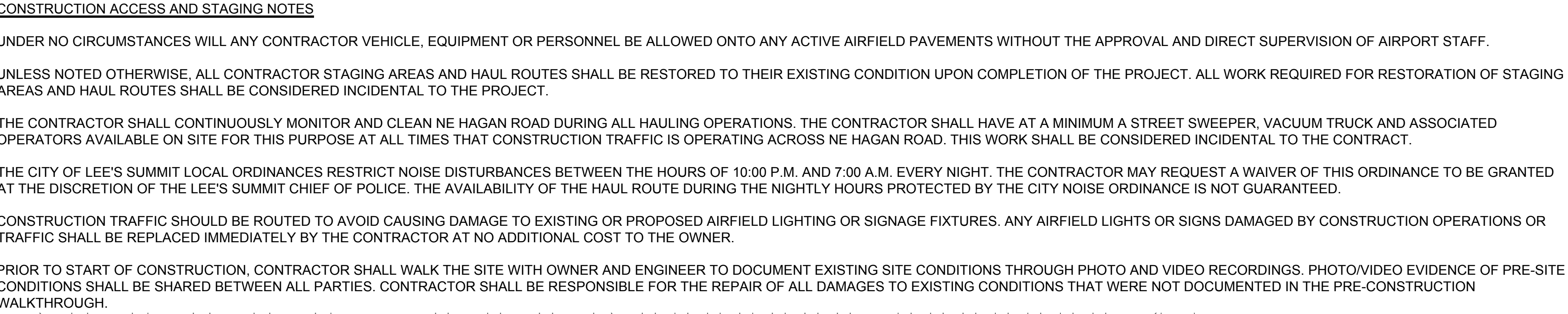
PROJECT NO:	47732472
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SHEET TITLE

INDEX TO SHEETS

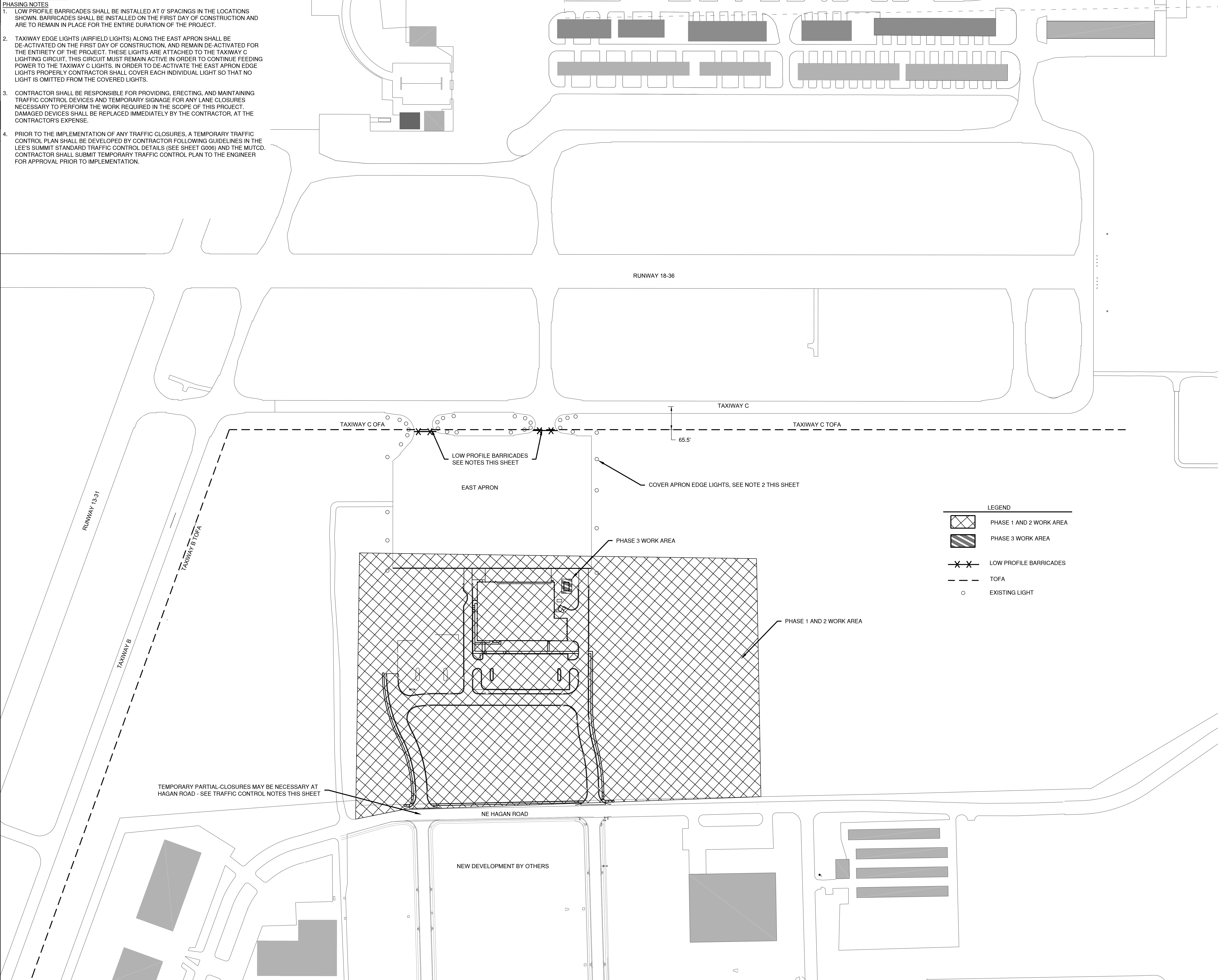
G001

SHEET 002 OF 131



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Date: Wednesday, January 3, 2024 17:02:41

- PHASING NOTES
1. LOW PROFILE BARRICADES SHALL BE INSTALLED AT 0' SPACINGS IN THE LOCATIONS SHOWN. BARRICADES SHALL BE INSTALLED ON THE FIRST DAY OF CONSTRUCTION AND ARE TO REMAIN IN PLACE FOR THE ENTIRE DURATION OF THE PROJECT.
 2. TAXIWAY EDGE LIGHTS (AIRFIELD LIGHTS) ALONG THE EAST APRON SHALL BE DE-ACTIVATED ON THE FIRST DAY OF CONSTRUCTION, AND REMAIN DE-ACTIVATED FOR THE ENTIRETY OF THE PROJECT. THESE LIGHTS ARE ATTACHED TO THE TAXIWAY C LIGHTING CIRCUIT. THIS CIRCUIT MUST REMAIN ACTIVE IN ORDER TO CONTINUE FEEDING POWER TO THE TAXIWAY C LIGHTS. IN ORDER TO DE-ACTIVATE THE EAST APRON EDGE LIGHTS PROPERLY CONTRACTOR SHALL COVER EACH INDIVIDUAL LIGHT SO THAT NO LIGHT IS OMITTED FROM THE COVERED LIGHTS.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAGE FOR ANY LANE CLOSURES NECESSARY TO PERFORM THE WORK REQUIRED IN THE SCOPE OF THIS PROJECT. DAMAGED DEVICES SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
 4. PRIOR TO THE IMPLEMENTATION OF ANY TRAFFIC CLOSURES, A TEMPORARY TRAFFIC CONTROL PLAN SHALL BE DEVELOPED BY CONTRACTOR FOLLOWING GUIDELINES IN THE LEE'S SUMMIT STANDARD TRAFFIC CONTROL DETAILS (SEE SHEET G006) AND THE MUTCD. CONTRACTOR SHALL SUBMIT TEMPORARY TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.



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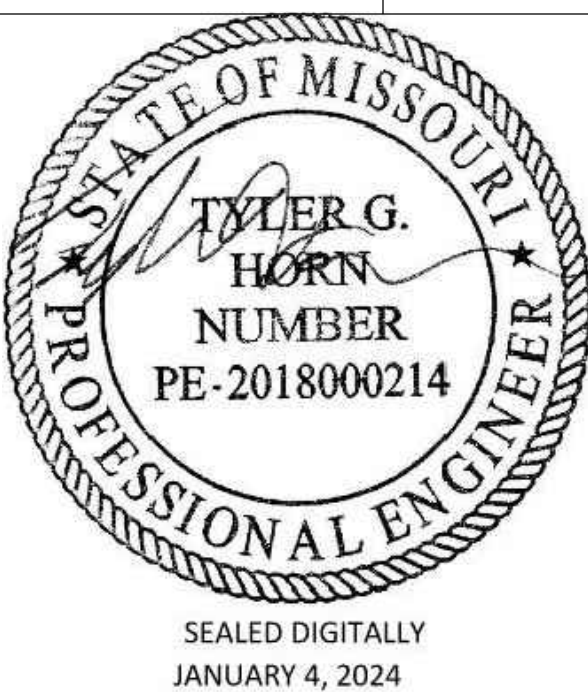
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1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
PROJECT NO: 47732472		
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CONSTRUCTION
ACTIVITY PLAN

G003

SHEET 004 OF 131

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Date: Wednesday, January 3, 2024 11:28:23

CRITICAL ELEVATION POINTS					
EASTSIDE DEVELOPMENT					
LEE'S SUMMIT MUNICIPAL AIRPORT					
NEW PCC APRON CRITICAL POINTS					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
A-1.1	NEW PCC APRON	993.15	1093.15	3895197.6990'	1975836.2174'
A-1.2	NEW PCC APRON	992.07	1092.07	3895225.0609'	1975602.4250'
A-1.3	NEW PCC APRON	992.65	1092.65	3895231.8597'	1975840.1059'
A-1.4	NEW PCC APRON	992.5	1092.50	3895235.4162'	1975809.8043'
A-1.5	NEW PCC APRON	992.5	1092.50	3895241.2694'	1975810.4913'
A-1.6	NEW PCC APRON	991.7	1091.70	3895264.9717'	1975607.0755'
NEW HANGAR 2 BUILDING					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
B-1.1	HANGAR 2	992.6	1092.60	3895239.6411'	1975825.4447'
B-1.2	HANGAR 2	991.7	1091.70	3895266.2132'	1975597.1525'
B-1.3	HANGAR 2	1000.5	1100.50	3895412.0130'	1975845.9181'
B-1.4	HANGAR 2	989.1	1089.10	3895438.8480'	1975617.5309'
B-1.5	HANGAR 2	986.9	1086.90	3895376.4210'	1975573.9185'
B-1.6	HANGAR 2	985.3	1085.30	3895443.0613'	1975581.6141'
EXISTING APRON CORNERS					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
EA-1.2	EXISTING APRON CORNER	992.6	1092.60	3895239.0915'	1975485.3858'
EA-1.1	EXISTING APRON CORNER	991.22	1091.22	3895170.5224'	1976068.6364'
PHASE 1 LOW PROFILE BARRICADES					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
BA-1.1	LOW-PROFILE BARRICADES	995	1095.00	3894780.9189'	1975297.1567'
BA-1.2	LOW-PROFILE BARRICADES	995	1095.00	3894818.6910'	1975574.6147'
CONTRACTOR STAGING AREA 1					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
CS-1.1	CONTRACTOR STAGING AREA 1	993.00	1093.00	3895667.0684'	1976473.9207'
CS-1.2	CONTRACTOR STAGING AREA 1	989.00	1089.00	3895683.6663'	1976301.0807'
CS-1.3	CONTRACTOR STAGING AREA 1	990.20	1090.20	3895808.2523'	1976487.3898'
CS-1.4	CONTRACTOR STAGING AREA 1	986.20	1086.20	3895824.9587'	1976312.2733'
CONTRACTOR STAGING AREA 2					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
CS-2.1	CONTRACTOR STAGING AREA 2	991.16	1091.16	3895026.7387'	1975651.2420'
CS-2.2	CONTRACTOR STAGING AREA 2	990.56	1090.56	3895043.5627'	1975476.0480'
CS-2.3	CONTRACTOR STAGING AREA 2	992.16	1092.16	3895167.9226'	1975664.7112'
CS-2.4	CONTRACTOR STAGING AREA 2	991.53	1091.53	3895184.6290'	1975489.5946'
CONSTRUCTION HAUL ROUTE					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
HR-1.1	HAUL ROUTE	984.50	1084.50	3895916.0873'	1976293.0927'
HR-1.2	HAUL ROUTE	979.60	1079.60	3895920.5640'	1975958.5945'
HR-1.3	HAUL ROUTE	976.80	1076.80	3895973.6711'	1975371.9616'
LIGHT POLES					
POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
LP-1.1	LIGHT POLE	992.70	1092.70	3895289.8052'	1975843.3242'
LP-1.2	LIGHT POLE	989.80	1089.80	3895449.1546'	1975860.7262'
LP-1.3	LIGHT POLE	1000.40	1100.40	3895318.6532'	1975535.9543'
LP-1.4	DOUBLE LIGHT POLE	996.80	1096.80	3895515.7584'	1975814.8711'
LP-1.5	DOUBLE LIGHT POLE	986.50	1086.50	3895538.9955'	1975616.7976'
LP-1.6	LIGHT POLE	979.40	1079.40	3895536.3247'	1975562.8928'
LP-1.7	LIGHT POLE	987.00	1087.00	3895576.5091'	1975758.8022'
LP-1.8	LIGHT POLE	987.50	1087.50	3895576.0414'	1975712.0700'
LP-1.9	LIGHT POLE	990.50	1090.50	3895572.4994'	1976125.9413'
LP-1.10	LIGHT POLE	988.30	1088.30	3895591.9298'	1975962.2827'
LP-1.11	LIGHT POLE	986.60	1086.60	3895747.8781'	1976042.7741'
LP-1.12	LIGHT POLE	977.60	1077.60	3895722.6696'	1975580.5369'
LP-1.13	LIGHT POLE	982.50	1082.50	3895872.8469'	1976036.2884'
LP-1.14	LIGHT POLE	981.00	1081.00	3895895.0099'	1975921.2974'
LP-1.15	LIGHT POLE	976.80	1076.80	3895907.6764'	1975786.7647'
LP-1.16	LIGHT POLE	975.20	1075.20	3895920.5243'	1975648.3518'
LP-1.17	LIGHT POLE	976.60	1076.60	3895897.0204'	1975577.2174'
LP-1.18	LIGHT POLE	998.80	1098.80	3895457.7191'	1975697.9933'
CONSTRUCTION ACTIVITY MAXIMUM HEIGHT: 100' FROM GROUND					



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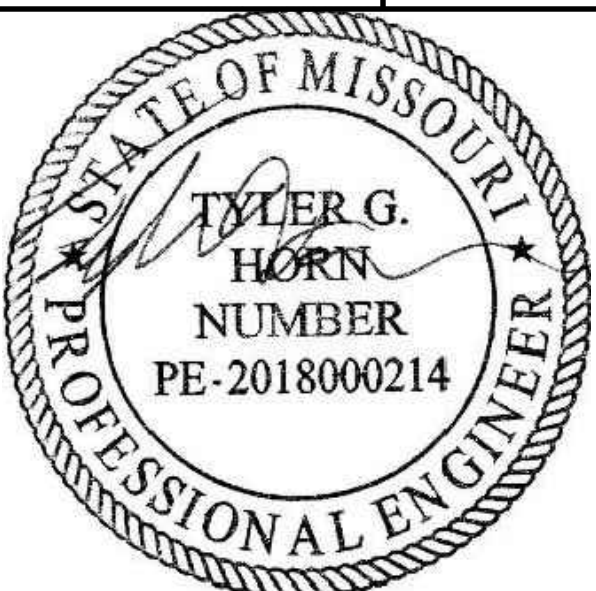
1627 MAIN STREET, #100
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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	47732472
CAD DWG FILE:	CRITICAL POINTS
DESIGNED BY:	WLC
DRAWN BY:	WLC
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CRITICAL POINTS

G004

SHEET 005 OF 131

GENERAL

- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2G, AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2G. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE CITY HAS APPROVED THE SPCD.
- THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.
- A MINIMUM OF 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
- THE CONTRACTOR SHALL EXERCISE BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH STORM WATER POLLUTION PREVENTION AND PROJECT SPECIFICATION C-102 EROSION AND SEDIMENT CONTROL THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL WATER POLLUTION.
- ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.
- THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THIS DOES NOT GUARANTEE THAT ALL FEATURES ARE SHOWN ON THE PLANS. THERE WILL BE NO ADDITIONAL PAYMENT TO THE CONTRACTOR DUE TO VARIATIONS IN SIZE, QUANTITY OR LOCATION OF EXISTING FEATURES.
- CRAWLER TYPE EQUIPMENT SHALL NOT BE ALLOWED ON ANY PAVED SURFACE ON THE AIRPORT. ONLY RUBBER-TIRED VEHICLES, WHICH WILL NOT CAUSE DAMAGE TO THE PAVEMENTS, SHALL BE ALLOWED WITHOUT PROVIDING SOME TYPE OF PROTECTION.
- THE CONTRACTOR SHALL HAVE PROPER IDENTIFICATION ON ALL EQUIPMENT AND VEHICLES ON THE AIRPORT.
- NO EDGE DROP GREATER THAN 3 INCHES WILL BE ALLOWED AT ANY ACTIVE RUNWAY PAVEMENT EDGE OR SAFETY AREA. IF NECESSARY, THE CONTRACTOR SHALL PLACE TEMPORARY MATERIAL TO ELIMINATE VERTICAL DROPS GREATER THAN 3 INCHES OR SLOPES GREATER THAN 5% IN THESE AREAS. THIS WORK SHALL BE SUBSIDIARY TO OTHER ITEMS IN THE PROJECT.
- THE CONTRACTOR SHALL CONSTRUCT HAUL ROADS FOR ALL PHASES OF CONSTRUCTION. THE HAUL ROADS SHALL BE CONSTRUCTED OF MATERIALS THAT ALLOW ACCESS TO THE SITE DURING POOR CONDITIONS. THE HAUL ROADS SHALL BE REMOVED AFTER CONSTRUCTION OF EACH PHASE IS COMPLETE. THE AREAS WHERE HAUL ROADS WERE CONSTRUCTED SHALL BE RESTORED BACK TO THEIR ORIGINAL CONDITION. CONSTRUCTION OF THE HAUL ROADS, REMOVAL OF THE HAUL ROADS AND RESTORING THE AREAS BACK TO THEIR ORIGINAL CONDITION SHALL BE INCIDENTAL TO THE PROJECT.

1. COORDINATION

- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT AND THE ENGINEER. THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
- ON OR BEFORE THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
- DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE RESIDENT ENGINEER/OBSERVER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.
- CHANGES MADE TO THE SCOPE OR DURATION OF THE PROJECT MAY NECESSITATE REVISIONS TO THE CSPP AND SHALL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND AIRPORT OPERATOR.

2. PHASING

- THIS PROJECT INCLUDES THREE PHASES:
PHASE 1: FACILITY DEVELOPMENT
PHASE 2: SITE WORK
PHASE 3: ELECTRICAL VAULT WORK.
- THE CONTRACTOR SHALL HAVE A DEFINED LIMIT OF CALENDAR DAYS TO COMPLETE ALL WORK IN THIS PROJECT AS DETAILED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES AS DEFINED IN THE PROJECT SPECIFICATIONS FOR EACH DAY THAT THE WORK EXTENDS BEYOND THE ALLOWABLE CALENDAR DAYS.
- PHASING IS AS DESCRIBED BELOW AND AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET

PHASE 1 NOTES

- PHASE 1 SHALL CONSIST OF THE CONSTRUCTION OF THE BUILDING AND ALL OTHER WORK ITEMS NOT SPECIFICALLY INCLUDED IN PHASE 2. PHASE 1 ITEMS SHALL REQUIRE PART TIME INSPECTION FROM THE CONSTRUCTION MANAGEMENT TEAM.
- ALL PHASE 1 WORK SHALL BE COMPLETED WITHIN THE OVERALL CALENDAR DAY ALLOTMENT FOR THIS PROJECT.
- NO WORK SHALL COMMENCE FOR THIS PHASE UNTIL THE EAST APRON IS CLOSED TO AIRCRAFT TRAFFIC PER THE SPECIFIC LAYOUT AND INSTRUCTIONS PROVIDED IN THE CONSTRUCTION ACTIVITY PLAN SHEET.

- PHASE 1 MAY BE PERFORMED CONCURRENTLY WITH PHASE 2 AND PHASE 3.
- PHASE 2 NOTES

- PHASE 2 SHALL CONSIST OF ALL ITEMS OF WORK THAT REQUIRE FULL TIME INSPECTION FROM THE CONSTRUCTION MANAGEMENT TEAM. THIS WORK INCLUDES:

A. EARTHWORK AND GRADING OPERATIONS
B. BUILDING FOOTINGS AND FOUNDATION CONSTRUCTION
C. INSTALLATION OF ALL UNDERGROUND UTILITIES, INCLUDING STORM SEWERS AND INLETS
D. ALL SUBGRADE TREATMENT, BASE ROCK INSTALLATION, CONCRETE AND ASPHALT PAVING
- PHASE 2 MAY BE PERFORMED CONCURRENTLY WITH PHASE 1 AND PHASE 3
- THE CONTRACTOR SHALL HAVE A DEFINED LIMIT OF CALENDAR DAYS TO COMPLETE ALL WORK IN THIS PHASE AS DETAILED IN THE PROJECT SPECIFICATIONS. THE PHASE 2 CALENDAR DAYS SHALL BE COUNTED CONCURRENTLY WITH THE OVERALL CALENDAR DAYS. ALL PHASE 2 WORK SHALL BE COMPLETED WITHIN THE OVERALL CALENDAR DAY ALOTMENT FOR THIS PROJECT.
- THE CONTRACTOR SHALL HAVE THE FLEXIBILITY TO DETERMINE THE PERIOD WITHIN THE OVERALL CALENDAR DAYS THAT THE PHASE 2 WORK ITEMS SHALL BE ACCOMPLISHED. THE CONTRACTOR MAY REQUEST THE SUSPENSION OF THE PHASE 2 CALENDAR DAYS BETWEEN DIFFERENT WORK ITEMS. HOWEVER, ONCE CALENDAR DAYS ARE INITIATED FOR A SPECIFIC WORK ITEM IN A SPECIFIC AREA - THEY MAY NOT BE SUSPENDED UNTIL THAT SPECIFIC WORK ITEM IS COMPLETED.
- THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES AS DEFINED IN THE PROJECT SPECIFICATIONS FOR EACH DAY THAT THE PHASE 2 WORK EXCEEDS THE PHASE 2 CALENDAR DAY LIMIT.
- THE CONTRACTOR SHALL PROVIDE THE CONSTRUCTION MANAGEMENT TEAM A MINIMUM OF 72 HOURS NOTICE PRIOR TO STARTING WORK ON ANY SPECIFIC PHASE 2 ITEM.

2. PHASING (CONT.)

PHASE 3 NOTES

- PHASE 3 SCOPE OF WORK SHALL CONSIST OF ANY WORK THAT WILL REQUIRE A TEMPORARY SHUTDOWN TO AIRFIELD POWER, TO COMPLETE THE ELECTRICAL SERVICE TIE-IN TO THE AIRFIELD ELECTRICAL VAULT. THE VAULT SERVES AS THE ONLY POWER SOURCE TO THE AIRFIELD LIGHTING SYSTEM.
- PHASE 3 WORK MAY ONLY BE ACCOMPLISHED DURING DAYLIGHT HOURS (8AM-5PM) ON DAYS SCHEDULED IN ADVANCE WITH THE AIRPORT. THIS WORK SHALL BE COMPLETED IN THE CALENDAR DAYS ALLOTTED FOR THIS PHASE AS DEFINED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES AS DEFINED IN THE PROJECT SPECIFICATIONS FOR EACH DAY THAT THE AIRFIELD LIGHTING REMAINS INACTIVE FOLLOWING THE CALENDAR DAY ALOTMENT.
- CONTRACTOR SHALL REQUEST TEMPORARY VAULT SHUTDOWNS WITH AT LEAST 48-HOURS NOTICE TO THE AIRPORT. AIRPORT HAS THE RIGHT TO APPROVE OR REJECT ANY DAYS. AIRFIELD LIGHTING IS A CRITICAL SAFETY COMPONENT ON DAYS WITH INCLEMENT WEATHER - THE AIRPORT HAS THE RIGHT TO CANCEL THE TEMPORARY VAULT SHUTDOWN AT ANY TIME IF NECESSARY DUE TO WEATHER.

3. CONSTRUCTION ACTIVITY

- THE EAST APRON SHALL BE CLOSED FOR THE DURATION OF THE PROJECT
- NO CONSTRUCTION TRAFFIC SHALL CROSS INTO ANY OPEN AIRFIELD PAVEMENT OR AIRFIELD OBJECT FREE AREAS FOR ANY REASON WHATSOEVER. SHALL ACCESS BE NECESSARY FOR ANY REASON, CONTRACTOR SHALL COORDINATE WITH THE AIRPORT WHO SHALL PROVIDE ESCORT.
- UNAUTHORIZED ENTRY BY ANY PERSONNEL, VEHICLE OR EQUIPMENT WOULD BE A MAJOR INFRACTION OF AIRPORT SAFETY. THE PERSONNEL RESPONSIBLE FOR THE INCURSION SHALL BE SUSPENDED FROM ACCESS ONTO AIRPORT PROPERTY AND WILL NOT BE ALLOWED RE-ENTRY WITHOUT THE CONSENT OF THE AIRPORT. IF MULTIPLE INCURSIONS OCCUR, THE AIRPORT RESERVES THE RIGHT TO SUSPEND ALL ACCESS ONTO AIRPORT PROPERTY UNTIL ALL KEY CONTRACTOR STAFF ARE RETRAINED IN AIRPORT SAFETY. PROJECT CALENDAR DAYS WILL CONTINUE TO BE COUNTED DURING THE WORK SUSPENSION.

4. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

- THE CONTRACTOR SHALL REMAIN CLEAR OF THE PAI SYSTEMS, WIND CONE, BEACON, AWOS AND OTHER NAVAIDS FACILITIES AT ALL TIMES, UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL LOCATE FAA UTILITIES WITH FAA TECHNICAL OPERATIONS PRIOR TO START OF ALL CONSTRUCTION.

5. CONTRACTOR ACCESS

- CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLAN SHEETS.
- THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE PERSON TO MONITOR THE AIRPORT UNICOM FREQUENCY OF 122.80. THE PERSON DESIGNATED SHALL HAVE THE ABILITY TO EASILY COMMUNICATE WITH OTHER CONTRACTOR PERSONNEL WORKING ON THE JOBSITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN WORKING RADIO(S).
- THE STORAGE AND STAGING AREAS SHALL BE AS SHOWN ON THE SITE PLAN.
- THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS AND BE RESPONSIBLE FOR MAINTAINING THE SECURITY OF THE ACCESS GATES BY KEEPING THE GATES LOCKED AND GUARDED AT ALL TIMES. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR.
- WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE STORED AT THE STAGING AREA OR WITHIN THE WORK AREA LIMITS
- THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE.
- ALL CONSTRUCTION TRAFFIC OPERATING WITHIN AN ACTIVE RUNWAY OR TAXIWAY SAFETY AREA OR ON AN ACTIVE APRON SHALL BE UNDER CONTROL BY A FLAGMAN OR ESCORT WHO IS MONITORING THE AIRPORT UNICOM FREQUENCY. THE CONTRACTOR SHALL PROVIDE HIS/HER OWN FLAGMEN.
- THE CONTRACTOR SHALL THOROUGHLY AND CONTINUOUSLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF THE ENGINEER. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
- ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR. VEHICLE OPERATORS HAVING ACCESS TO THE MOVEMENT AREA SHALL BE FAMILIAR WITH AIRPORT PROCEDURES FOR THE OPERATION OF GROUND VEHICLES AND THE CONSEQUENCES OF NONCOMPLIANCE OR BE ESCORTED BY SOMEONE WHO IS.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT IF CONSTRUCTION ACTIVITY WILL REQUIRE THE BLOCKAGE OF EMERGENCY ACCESS TO THE AIRPORT.

6. TEMPORARY FENCING AND PROJECT ACCESS NOTES

- SEE FENCING PLAN FOR LAYOUT OF PROPOSED FENCE AND FOR LAYOUT OF FENCE REMOVALS
- ALL PROPOSED FENCING SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING. ANY GAPS IN FENCING SHALL ONLY BE ALLOWED TEMPORARILY AND UNDER DIRECT SUPERVISION OF CONTRACTOR PERSONNEL.

7. WILDLIFE MANAGEMENT

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR AIRPORT MANAGER IF ANY WILDLIFE IS SEEN ENTERING THE AIRPORT.
- THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.

8. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

- THE CONTRACTOR SHALL PICK UP ANY FOREIGN OBJECT DEBRIS (FOD) SEEN ON THE AIRFIELD PAVEMENTS.
- THE CONTRACTOR SHALL SECURE ALL LOOSE ITEMS FROM VEHICLES PRIOR TO DRIVING ON AIRFIELD PAVEMENTS.

9. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

- THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT PLAN AND KEEP COPIES ON THE JOBSITE OF MATERIAL SAFETY DATA SHEETS (SDS) FOR ALL MATERIALS HANDLED ON THE JOBSITE.

10. NOTIFICATION OF CONSTRUCTION ACTIVITIES

- THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
- THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO THE AIRPORT PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT AND TO ALLOW FOR COORDINATION WITH THE AIRPORT TENANTS BY THE AIRPORT.
- FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 100', THE CONTRACTOR SHALL SUBMIT FA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 100' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.
- IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911.
- CONTACTS FOR THIS PROJECT ARE AS LISTED BELOW.

CITY (OWNER)		
MIKE ANDERSON - DEPUTY DIRECTOR OF LSPW	(816) 969-1800	
AIRPORT		
JOEL ARRINGTON - AIRPORT MANAGER	(816) 969-1181	
AIRPORT FRONT DESK	(816) 969-1186	
ENGINEER		
TYLER HORN, P.E. - PROJECT MANAGER	(816) 853-2894	
WATER UTILITIES	(816) 989-1900	
FIRE DEPARTMENT	(816) 969-1300	
POLICE DEPARTMENT	(816) 969-1700	
FAA TECHNICAL OPERATIONS		
BRIAN CHITTUM	(816) 329-2828	
EMERGENCY	911	

11. INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2G MAY BE USED TO AID IN THE INSPECTIONS.
- THE CONTRACTOR SHALL ATTEND A FINAL INSPECTION OF EACH PHASE WORK AREA PRIOR TO OPENING THE AREA TO AIRPORT OPERATIONS.

12. UNDERGROUND UTILITIES

- THE CONTRACTOR SHALL MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION.
- BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL 1-800-DIG-RITE AND FAA TECHNICAL OPERATIONS TO ARRANGE FOR UTILITY LOCATES.

13. PENALTIES

- NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP AND THE CONTRACTOR'S APPROVED SPCD MAY RESULT IN FINES AS ALLOWED BY LAW OR APPLICABLE REGULATION.

14. RUNWAY AND TAXIWAY VISUAL AIDS

- AIRPORT PAVEMENT SHALL BE CLOSED DURING THIS PROJECT. THE CONTRACTOR SHALL USE MARKING, LIGHTING AND SIGNS THAT FOLLOW THE REQUIREMENTS OF FAA AC 150/5370-2G.
- BARRICADES SHALL BE USED AND MAINTAINED AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.

15. TRAFFIC CONTROL AND SIGNAGE NOTES

- PRIOR TO BEGINNING PROJECT CONSTRUCTION, A CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE DEVELOPED BY THE CONTRACTOR FOLLOWING GUIDELINES AS DESCRIBED IN THE CITY OF LEE'S SUMMIT TRAFFIC CONTROL PLAN ON SHEET G008 TRAFFIC CONTROL DETAILS. CONTRACTOR SHALL SUBMIT THE TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAGE FOR SURROUNDING ROADWAYS AS IDENTIFIED ON THE SUBMITTED TRAFFIC CONTROL PLAN. DAMAGED DEVICES SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL INSTALL 'AUTHORIZED PERSONNEL ONLY' SIGN AT ACCESS ROAD ENTRANCE FOR PROJECT DURATION.

16. EROSION CONTROL NOTES

- PRIOR TO COMMENCING ANY SITE GRADING OR DEMOLITION, CONTRACTOR MUST INSTALL EROSION CONTROL MEASURES PER THE REQUIRED MINIMUM PERMANENT STORMWATER MANAGEMENT PRACTICES TO SATISFY STORMWATER PLANS, LOCAL PERMITTING REQUIREMENTS, AND THE EROSION CONTROL DEVICES AS DESIGNATED PER THESE PROJECT PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS EARLY AS PRACTICAL. ALL CONTROLS SHALL BE MONITORED REGULARLY, MAINTAINED, AND MODIFIED TO MAINTAIN EFFECTIVENESS.

17. HAZARD MARKING AND LIGHTING

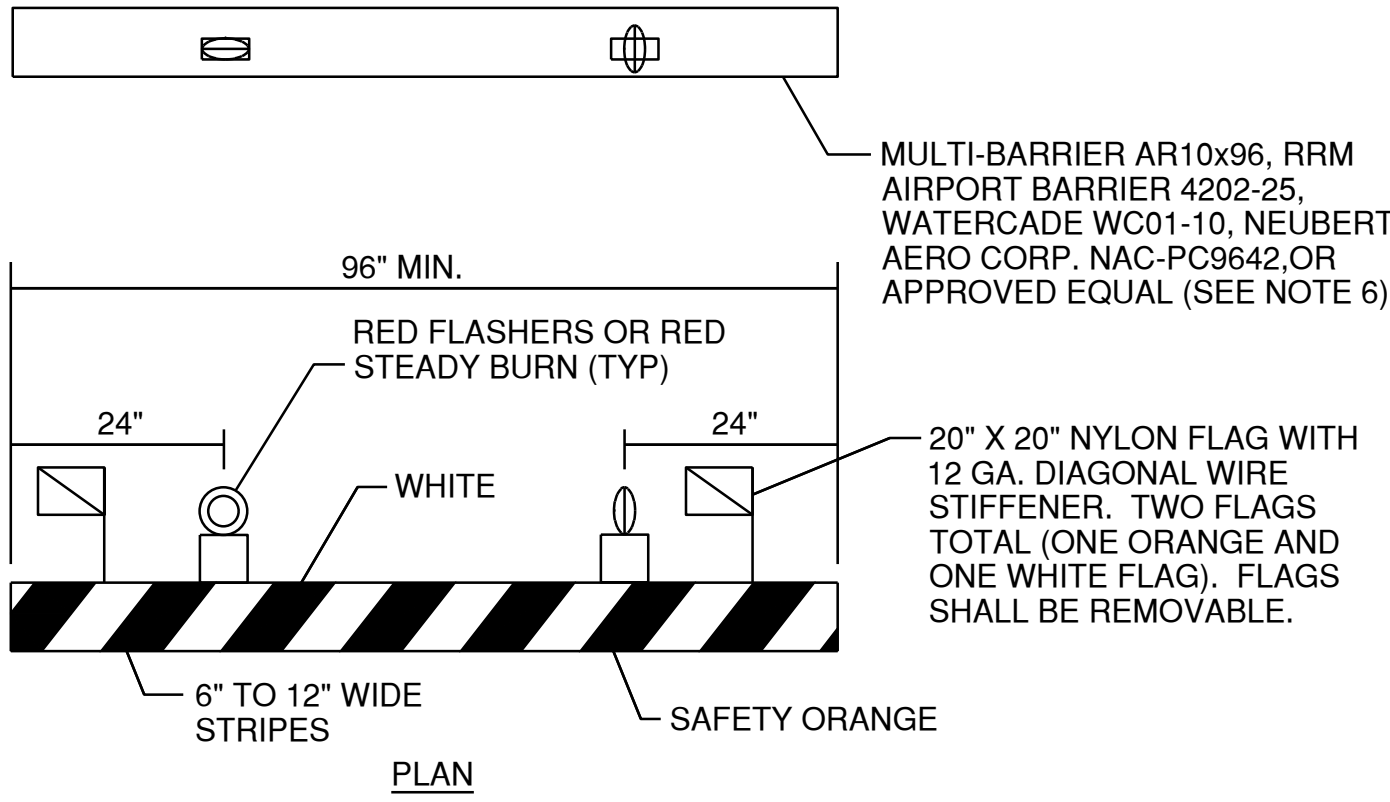
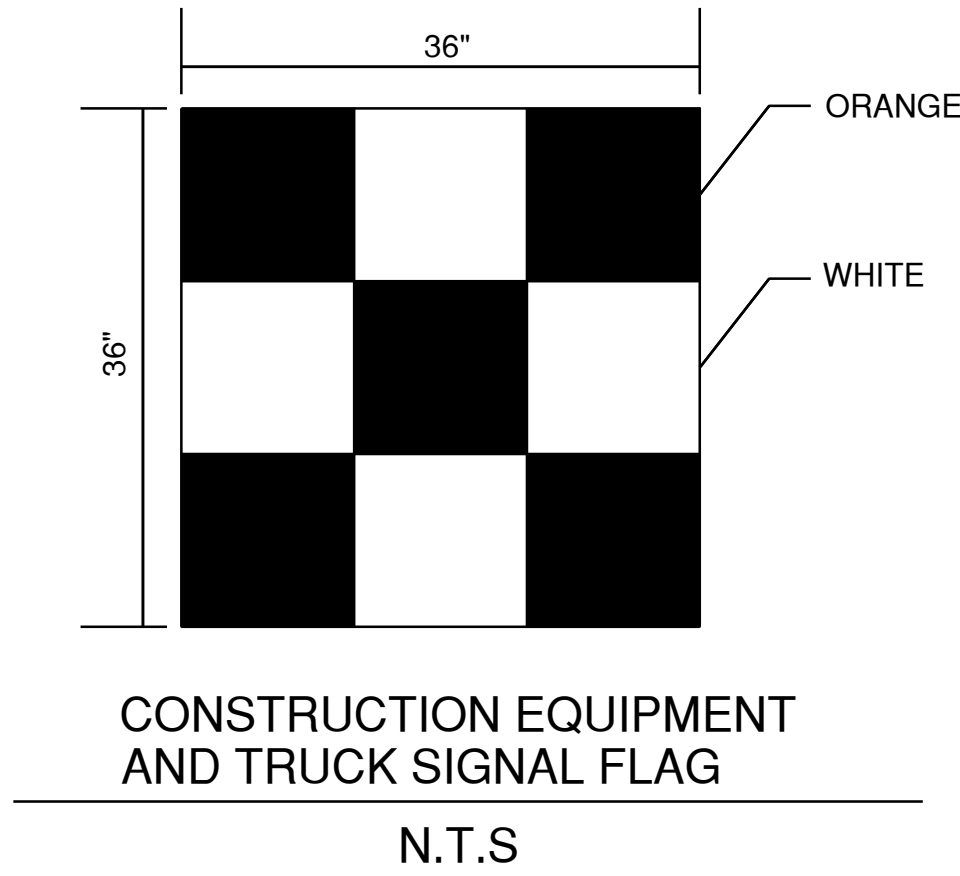
- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
- ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G AND 150/5210-5D AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY.
- BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY THE AIRPORT.
- THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO ENSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS.

18. PROTECTION

- THE CONTRACTOR SHALL NOT OPERATE ON ANY ACTIVE AIRFIELD PAVEMENTS.
- IF THE CONTRACTOR DAMAGES OR DIRTIES ANY ACTIVE PAVEMENTS THEY SHALL BE FIXED/CLEANED IMMEDIATELY.
- THE CONTRACTOR SHALL STAY CLEAR OF ALL TAXIWAY OBJECT FREE AREAS AND RUNWAY OBJECT FREE AREAS. THESE LIMITS CAN BE FOUND ON THE CONSTRUCTION ACTIVITY PLAN.
- THE RUNWAY APPROACH/DEPARTURE SURFACE IS A PROTECTED AIRSPACE SURFACE BEGINNING 200 FEET BEYOND ALL RUNWAY ENDS AND EXTENDS OUTWARD FROM THE RUNWAY AT A SLOPE OF 34:1 FOR 1,000 FEET. ALL CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL NOT BE PERMITTED TO PENETRATE THIS SURFACE.

19. OTHER LIMITATIONS ON CONSTRUCTION

- IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.
- BROKEN CONCRETE, BROKEN ASPHALT, UNUSED PAINT, UNUSED SEALANT AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED.
- PER AC 150/5370-2G, SECTION 2.22.2, EQUIPMENT MUST BE REMOVED FROM THE ROFA WHEN NOT IN USE.



BARRICADE NOTES:

- FLASHER OR STEADY BURN LIGHTS SHALL BE BATTERY OR SOLAR POWER OPERATED AND SHALL BE SECURED FIRMLY TO THE BARRICADES, AS APPROVED BY THE RESIDENT ENGINEER. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
- FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
- BARRICADES TO BE PLACED AT SPACINGS AS INDICATED ON THE CAP SHEETS. BARRICADES WILL EITHER BE PLACED WITH MAXIMUM 4' GAPS FROM EACH OTHER, OR 0' GAPS (OR INTERLOCKING BARRICADES) PER FAA AC 150/5370-2F. IN THE LOCATIONS AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.
- BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF IT COMPONENTS, AND WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. IF AFFIXED TO THE SURFACE, THE BARRICADE MUST BE FRANGIBLE AT GRADE LEVEL OR LOW AS POSSIBLE, BUT NOT TO EXCEED 3 INCHES ABOVE THE GROUND.
- BARRICADES SHALL BE OF A COMMERCIAL DESIGN AND SHALL MEET CURRENT FAA REQUIREMENTS.
- THE COST OF FURNISHING AND MAINTAINING BARRICADES THROUGHOUT THE LIFE OF THE PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL BARRICADES ON RUNWAY, TAXIWAY OR APRONS SHALL BE LOW PROFILE BARRICADES.

LOW PROFILE LIGHTED BARRICADE
N.T.S.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64146

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

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CAD DWG FILE: CAP NOTES
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: JRC
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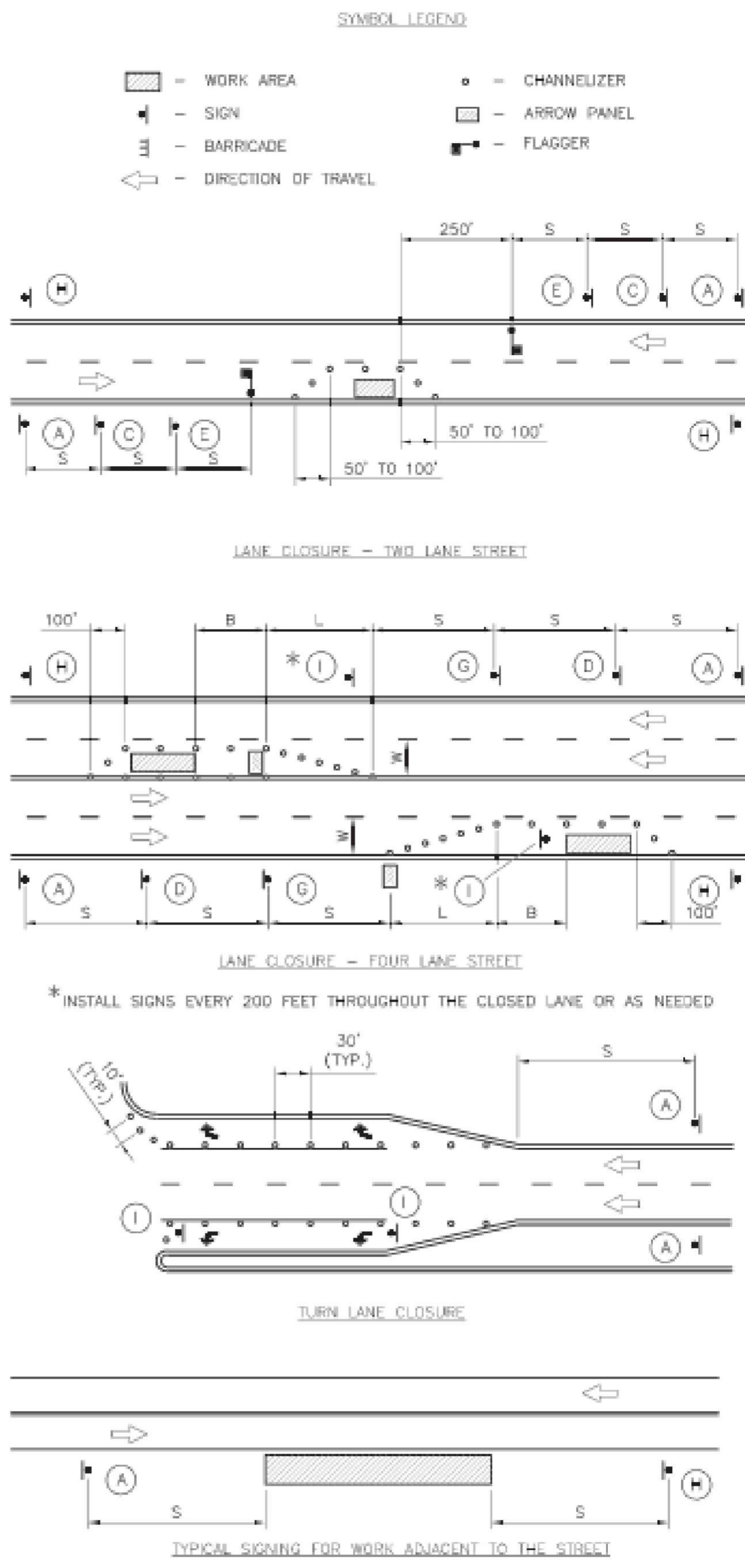
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CAP NOTES

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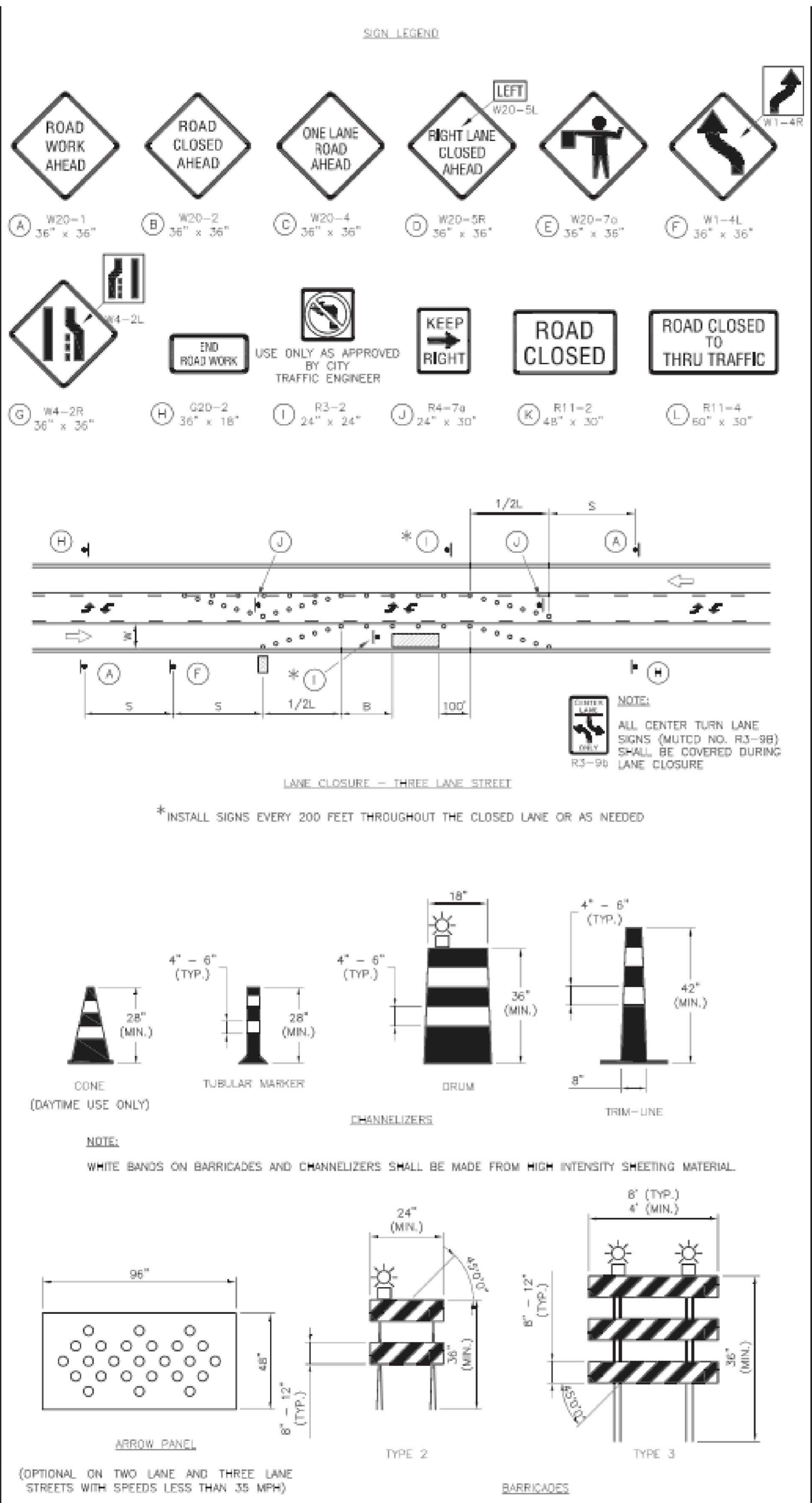
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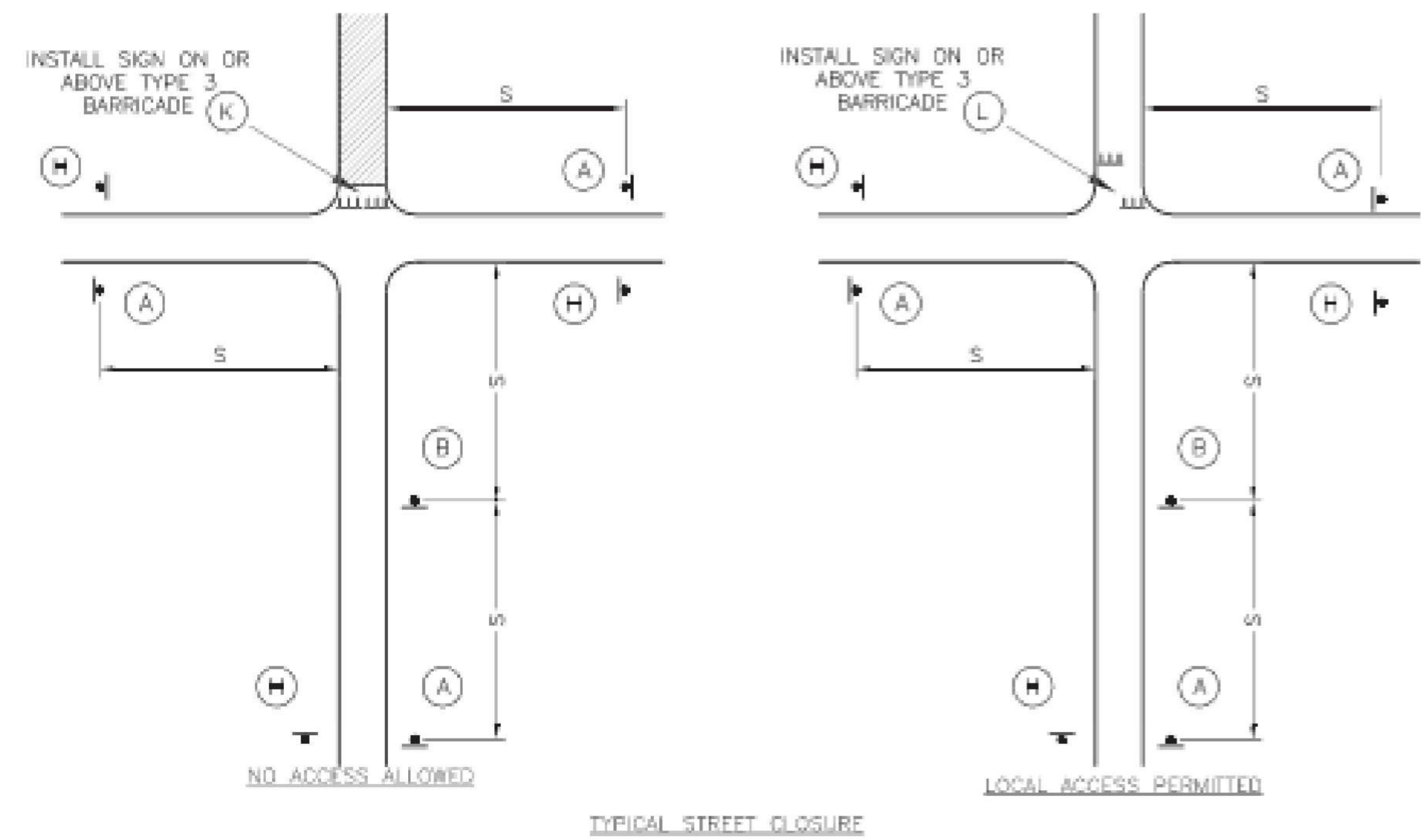
GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE "b"		MAXIMUM CHANNELIZER SPACING		
SPEED LIMIT (MPH)	LENGTH (FEET)	SPEED LIMIT (MPH)	WITHIN TAPER (FEET)	OUTSIDE TAPER (FEET)
25	35	25	25	50
30	55	30	30	60
35	85	35	35	70
40	120	40	40	80
45	170	45	45	90

TAPER DIMENSIONS (FEET)					SIGN SPACING "S"	
SPEED LIMIT (MPH)	MINIMUM TAPER LENGTH "L", PER LANE WIDTH "W"			MINIMUM NUMBER OF CHANNELIZERS	SPEED LIMIT (MPH)	SPACING (FEET)
	10	11	12			
25	105	115	125	6	25	100
30	150	165	180	7	30-35	250
35	205	225	245	8	40	350
40	270	295	320	9		
45	450	495	540	13		



GENERAL NOTES:

- ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES SHALL BE STANDARD IN SIZE, SHAPE, COLOR, AND MESSAGE, IN GOOD CONDITION, AND RETRO-REFLECTORIZED. ALL SIGNS SHALL BE SECURELY MOUNTED WITH HEIGHT AND LATERAL LOCATION AS DESCRIBED IN THE MUTCD.
- WARNING LIGHTS SHALL BE USED ON BARRICADES IN PLACE AT NIGHT AND ON WARNING SIGNS WHICH ALERT DRIVERS ABOUT A CHANGE IN ALIGNMENT, TRAFFIC CONTROL, LANE CLOSURE, OR ROAD CLOSURE.
- FLAGGERS SHALL BE USED WHERE INDICATED ON THE PLANS, WHERE CONSTRUCTION VEHICLES INTERACT WITH NORMAL TRAFFIC, OR WHERE CONSTRUCTION ACTIVITIES IMPOSE A RESTRICTION ON TRAFFIC, AS DIRECTED BY THE CITY TRAFFIC ENGINEER. WHERE FLAGGERS ARE USED, ADVANCE SIGNING SHALL BE ERECTED AS SHOWN IN THE DETAILS OR AS SPECIFIED IN THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS IN THE MUTCD IN REGARD TO CHARACTER, TRAINING, ATTIRE, AND BEHAVIOR.
- TRIM-LINES ARE THE CITY'S PREFERRED CHANNELIZING DEVICE. CONES MAY NOT BE USED AT NIGHTTIME.
- TRAFFIC CONTROL DEVICES NOT IN USE OR NOT APPLICABLE SHALL BE EITHER COVERED OR REMOVED FROM THE WORK AREA.
- THE CONTRACTOR SHALL USE BARRICADES, STREET PLATES, OR FENCING AS NEEDED TO EFFECTIVELY SHIELD PEDESTRIAN AND VEHICULAR TRAFFIC FROM EXPOSED OBJECTS, EXCAVATIONS, AND CONSTRUCTION ACTIVITIES.
- ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS UNLESS NOTED OTHERWISE ON THE PLANS.
- NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 7 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- CONSTRUCTION VEHICLES PARKED ALONG STREETS SHALL BE LOCATED WITHIN THE WORK AREA (TRAFFIC CONTROL) OR WHERE OTHERWISE NORMALLY PERMITTED. CONSTRUCTION MATERIALS, INCLUDING TRAFFIC CONTROL AND VEHICLES SHALL NOT RESTRICT SIGHT DISTANCE FOR VEHICLES EXITING AT STREETS OR DRIVES.
- CONSTRUCTION MATERIALS SHALL BE KEPT OFF OF SIDEWALKS, CONSOLIDATED IN ONE LOCATION WITHIN CITY RIGHT-OF-WAY, AND REMOVED DAILY UNLESS OTHERWISE APPROVED BY THE INSPECTOR. DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS ON STREETS AND SIDEWALKS SHALL BE REMOVED IMMEDIATELY.
- THE CONTRACTOR SHALL NOT PERFORM ANY WORK THAT WILL RESTRICT VEHICULAR TRAFFIC IN ANY WAY BETWEEN THE HOURS OF 7:00 A.M. AND 9:00 A.M. OR 4:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS.
- ALL TRAVEL LANES SHOULD BE AT LEAST 11 FEET WIDE UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. A "NARROW LANES" SIGN SHALL BE INSTALLED IN ADVANCE OF A LANE WIDTH REDUCTION TO LESS THAN 11 FEET.
- ALL EDGE DROP-OFFS OF MORE THAN 2 INCHES AND LESS THAN 4 INCHES SHOULD BE PROTECTED BY A WEDGE OR BARRIER AND ALL EDGE DROP-OFFS GREATER THAN 4 INCHES SHALL HAVE EDGE PROTECTION (SEE TRAFFIC CONTROL SPECIFICATIONS FOR EDGE TREATMENT REQUIREMENTS).
- THE "WORKERS" SYMBOLIC SIGN (MUTCD NO. W21-1A) MAY BE USED INSTEAD OF THE "ROAD WORK AHEAD" SIGN FOR WORK WITH A DURATION OF 12 HOURS OR LESS. THE "END ROAD WORK" SIGN IS NOT REQUIRED TO BE INSTALLED AFTER THE "WORKERS" SIGN.
- NO TRAFFIC SIGNAL SHALL BE ALTERED OR MODIFIED IN ANY WAY WITHOUT A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES ON AN AROUND-THE-CLOCK BASIS, WHETHER OR NOT WORK IS ACTIVELY BEING PURSUED AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED IMMEDIATELY.
- THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF DRIVERS, PEDESTRIANS, AND WORKERS AT ALL TIMES.
- SHOULD THE CONTRACTOR FAIL TO ENFORCE THE TRAFFIC CONTROL PLAN OR FAIL TO CLEAN, REPLACE OR OTHERWISE MAINTAIN THE TRAFFIC CONTROL DEVICES WHEN DIRECTED TO DO SO BY THE CITY TRAFFIC ENGINEER OR REPRESENTATIVE, THE CITY MAY TAKE ONE OR MORE OF THE FOLLOWING ACTIONS:
 - EMPLOY ANOTHER AGENCY TO CORRECT DEFICIENCIES IN TRAFFIC CONTROL DEVICES AND DEDUCT THE COST FROM THE CONTRACTOR'S PAY ESTIMATE.
 - STOP THE WORK UNTIL DEFICIENCIES ARE CORRECTED.
 - SUSPEND ALL PAY ESTIMATES UNTIL DEFICIENCIES ARE CORRECTED, OR
 - PLACE THE CONTRACTOR IN DEFAULT.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

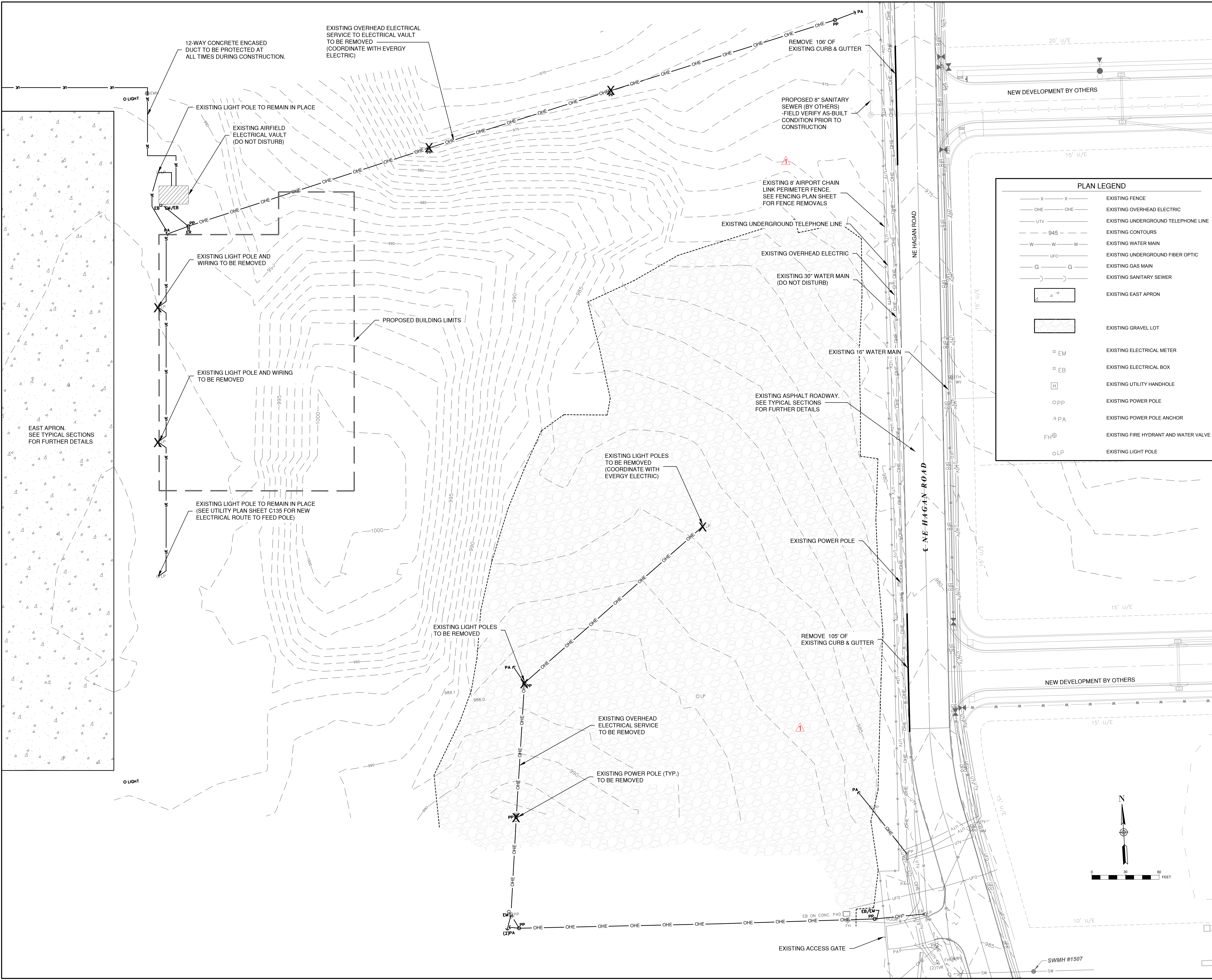
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TRAFFIC CONTROL
DETAILS

G006

SHEET 007 OF 131



PLAN LEGEND	
X-X	EXISTING FENCE
OHE-OHE	EXISTING OVERHEAD ELECTRIC
UTV	EXISTING UNDERGROUND TELEPHONE LINE
-945-	EXISTING CONTOURS
-W-W-	EXISTING WATER MAIN
-UFO-	EXISTING UNDERGROUND FIBER OPTIC
-G-G-	EXISTING GAS MAIN
-S-S-	EXISTING SANITARY SEWER
[Symbol]	EXISTING EAST APRON
[Symbol]	EXISTING GRAVEL LOT
[Symbol]	EXISTING ELECTRICAL METER
[Symbol]	EXISTING ELECTRICAL BOX
[Symbol]	EXISTING UTILITY HANDHOLE
[Symbol]	EXISTING POWER POLE
[Symbol]	EXISTING POWER POLE ANCHOR
[Symbol]	EXISTING FIRE HYDRANT AND WATER VALVE
[Symbol]	EXISTING LIGHT POLE

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LEE'S SUMMIT MUNICIPAL AIRPORT
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MARK	DATE	DESCRIPTION
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AND DEMOLITION
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SHEET 008 OF 131

SITE DATA TABLE		
PARKING SPACES SUMMARY	REQUIRED	STANDARD: 55 ADA: 3
	PROVIDED	STANDARD: 63 ADA: 4
	TOTAL: 67 SPACES	
TOTAL PROJECT AREA SIZE	676,500 SF	
	15.53 ACRES	
IMPERVIOUS AREA	155,697 SF	
BUILDING AREA SUMMARY	TOTAL FOOTPRINT	42,298 SF
	1ST FLOOR	42,298 SF
	2ND FLOOR	6,729 SF

INTERSECTION SIGHT DISTANCE NOTES:

- PER AASHTO, INTERSECTION SIGHT DISTANCE (ISD) = 1.47(V/Tg)
- V=35MPG (DESIGN FOR 40MPH)
- Tg=11.5 FOR COMBINATION TRUCK LEFT TURN
- Tg=10.5 FOR COMBINATION TRUCK RIGHT TURN
- ISD (LEFT TURN)=680'
- ISD (RIGHT TURN)=620'

SITE PLAN GENERAL NOTES:

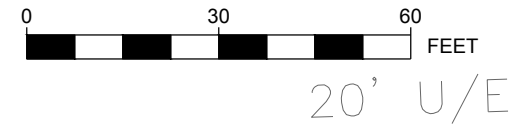
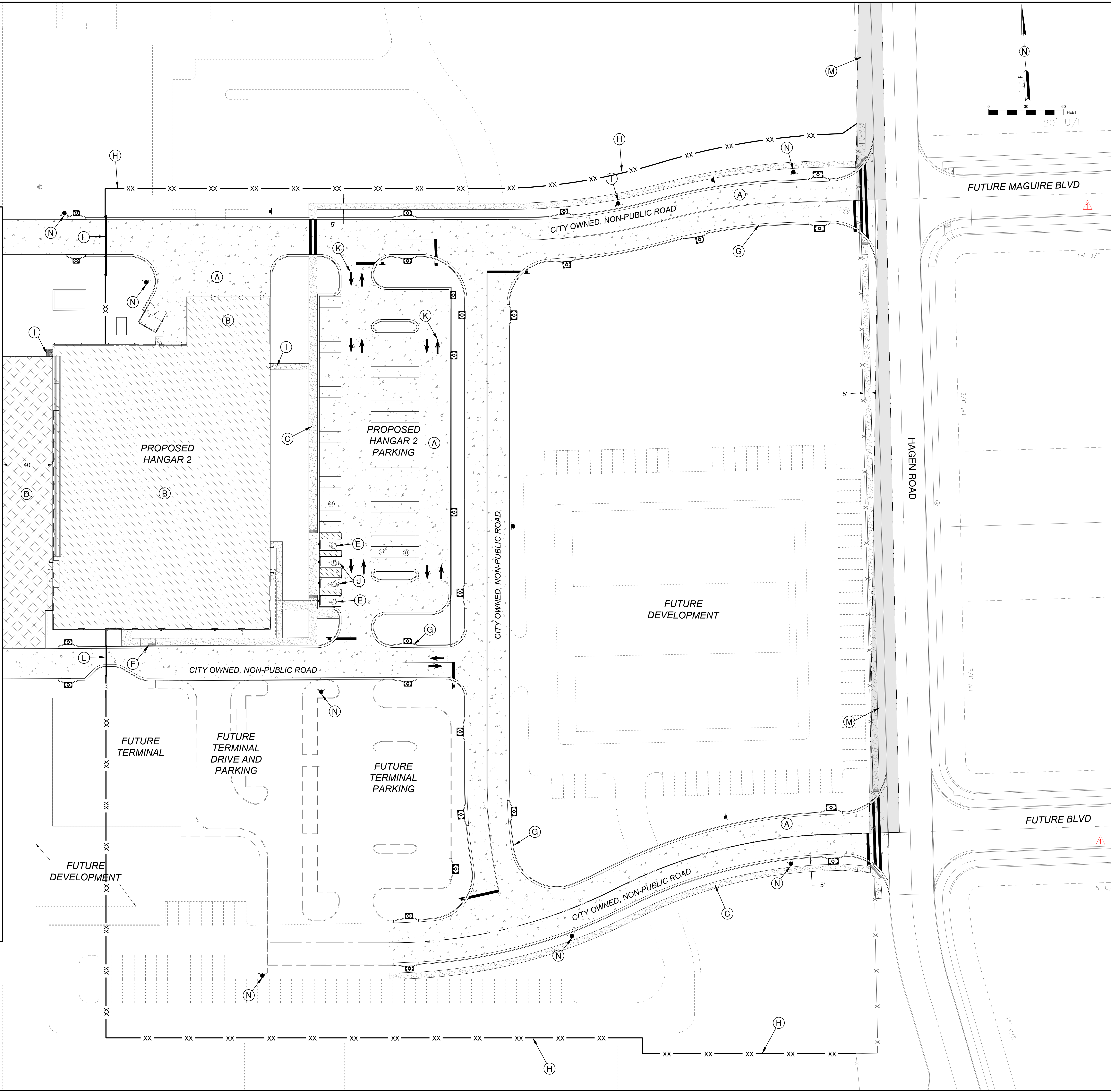
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY / STATE / FEDERAL / COUNTY REGULATIONS, CODES AND O.S.H.A. REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS DRAWING WITH OTHER DRAWINGS THAT CONTAIN DIMENSIONS TO ENSURE THAT THE PLAN DIMENSIONS ARE CONSISTENT WITH THE COORDINATES PRESENTED ON THE PLAN. FOLLOWING STAKE-OUT OF ANY FACILITY BY COORDINATES, THE CONTRACTOR SHALL CHECK THAT PLAN DIMENSIONS ARE ACHIEVED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE FULL-DEPTH SAWCUT AT ALL REMOVAL LIMITS AS REQUIRED TO PROVIDE A CLEAN, NEAT EDGE TO EXISTING PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. THAT WILL REMAIN.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS DOORS AND ENCLOSURES.
- CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH WORK BY OTHERS INCLUDING UTILITY COMPANIES.

PARKING SUMMARY

STANDARD SPACES	63 SPACES
ADA SPACES	4 SPACES
TOTAL SPACES	67 SPACES

PLAN KEYNOTES

- (A) PROPOSED VEHICLE CONCRETE PAVEMENT -SEE PAVING PLAN
- (B) PROPOSED BUILDING
- (C) PCC SIDEWALK -SEE PAVING PLAN
- (D) PROPOSED AIRFIELD CONCRETE PAVEMENT
- (E) ADA STALL AND BOLLARD MOUNTED SIGNAGE - SEE MARKING AND SIGNAGE DETAIL
- (F) ADA SIDEWALK RAMP AND FLUSH CURB WITH 2'x6" ADA TRUNCATED DOME WARNING STRIP (TYP) - SEE SITE DETAILS
- (G) CONCRETE CURB AND GUTTER - SEE TYPICAL SECTIONS
- (H) 8" TALL CHAIN LINK FENCE WITH 3 STRANDS OF BARBED WIRE -SEE FENCING DETAILS
- (I) PROPOSED DOOR STOOP - SEE ARCHITECTURAL PLANS FOR DETAILS
- (J) ADA VAN STALL AND BOLLARD MOUNTED SIGNAGE - SEE MARKING AND SIGNAGE DETAIL
- (K) PAINTED TRAFFIC FLOW ARROW
- (L) AUTOMATIC SLIDING GATE - SEE FENCING PLAN
- (M) INTERSECTION SIGHT TRIANGLES
- (N) PROPOSED FIRE HYDRANT



1627 MAIN STREET, SUITE 600
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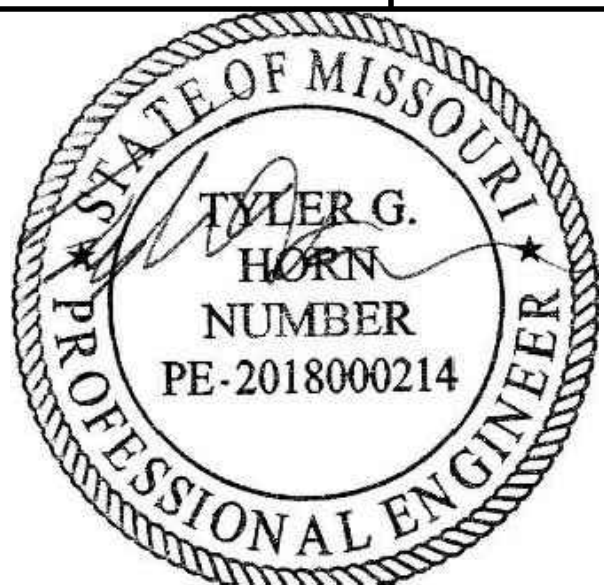
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO.: 47732472
CAD DWG FILE: SITE PLAN
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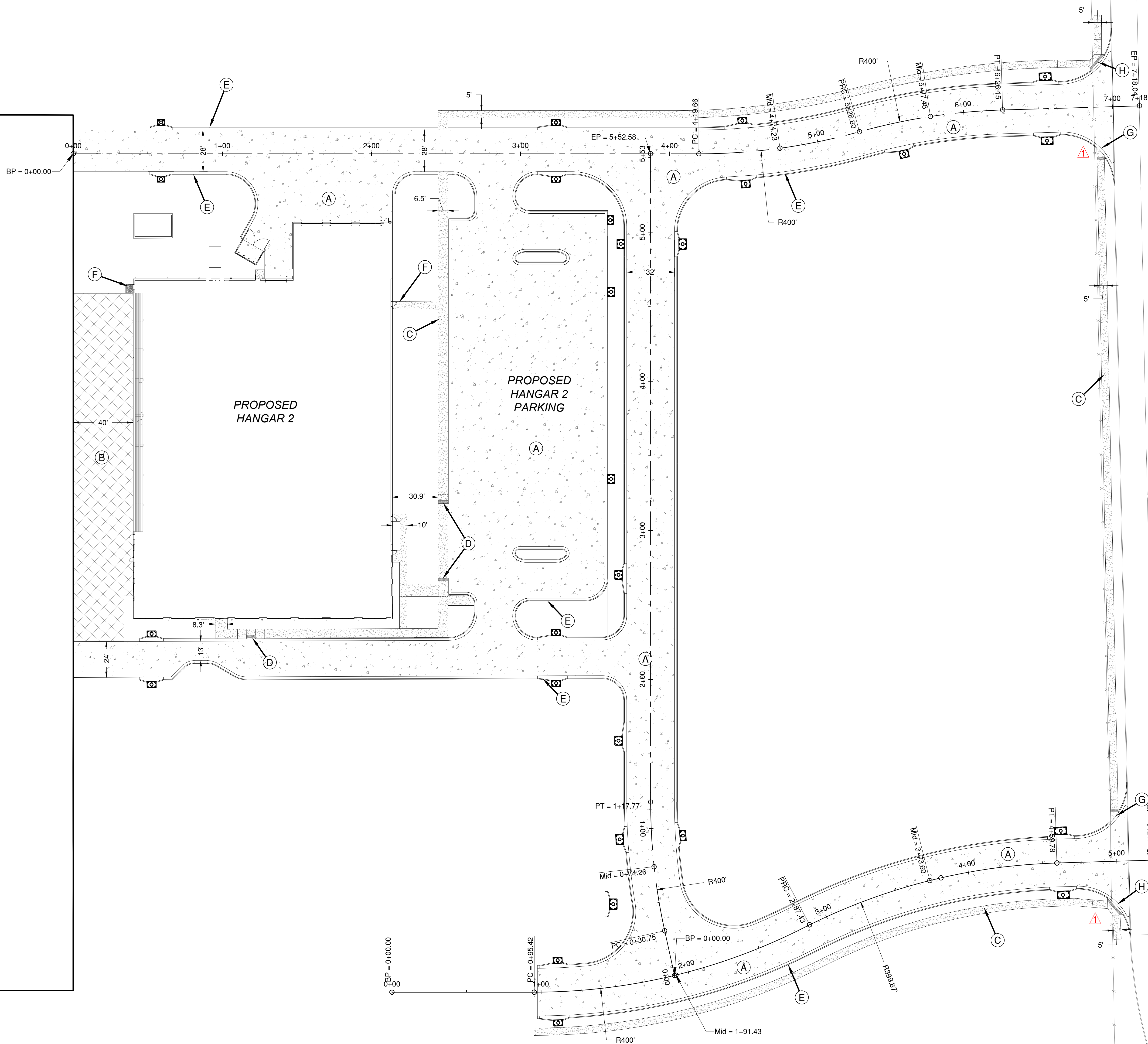
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SITE PLAN

C102

SHEET 009 OF 131

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- PLAN KEYNOTES
- (A) PROPOSED 8" CONCRETE PAVEMENT - SEE TYPICAL SECTIONS
 - (B) PROPOSED 11" PCC APRON - SEE SHEET TYPICAL SECTIONS
 - (C) PCC 4" SIDEWALK - SEE SHEET TYPICAL SECTIONS
 - (D) ADA SIDEWALK RAMP AND FLUSH CURB WITH 2" ADA TRUNCATED DOME WARNING STRIP (TYP) - SEE SITE DETAILS
 - (E) TYPE CG-1 CONCRETE CURB AND GUTTER - SEE TYPICAL SECTIONS
 - (F) PROPOSED DOOR STOOPS - SEE ARCHITECTURAL PLANS FOR DETAILS
 - (G) TYPE A ADA SIDEWALK/SHARED-USE RAMP - SEE SITE DETAILS
 - (H) TYPE B ADA SIDEWALK/SHARED-USE RAMP - SEE SITE DETAILS

- PAVING PLAN GENERAL NOTES:
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY / STATE / FEDERAL / COUNTY REGULATIONS, CODES AND O.S.H.A. REGULATIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS DRAWING WITH OTHER DRAWINGS THAT CONTAIN DIMENSIONS TO ENSURE THAT THE PLAN DIMENSIONS ARE CONSISTENT WITH THE COORDINATES PRESENTED ON THE PLAN. FOLLOWING STAKE-OUT OF ANY FACILITY BY COORDINATES, THE CONTRACTOR SHALL CHECK THAT PLAN DIMENSIONS ARE ACHIEVED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE FULL-DEPTH SAWCUT AT ALL REMOVAL LIMITS AS REQUIRED TO PROVIDE A CLEAN, NEAT EDGE TO EXISTING PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. THAT WILL REMAIN.
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS DOORS AND ENCLOSURES.
 - CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH WORK BY OTHERS INCLUDING UTILITY COMPANIES.

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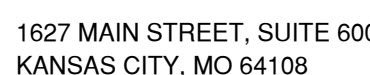
1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

SEALING DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT, MO		
MARK	DATE	DESCRIPTION
PROJECT NO.: 47732472		
CAD DWG FILE: PAVING PLAN		
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DRAWN BY: WLC		
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SHEET TITLE		
PAVING PLAN		
C103		
SHEET 010 OF 131		



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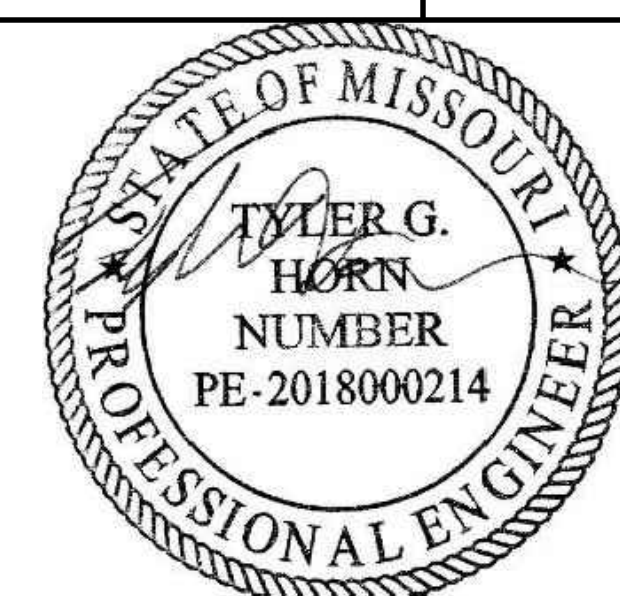
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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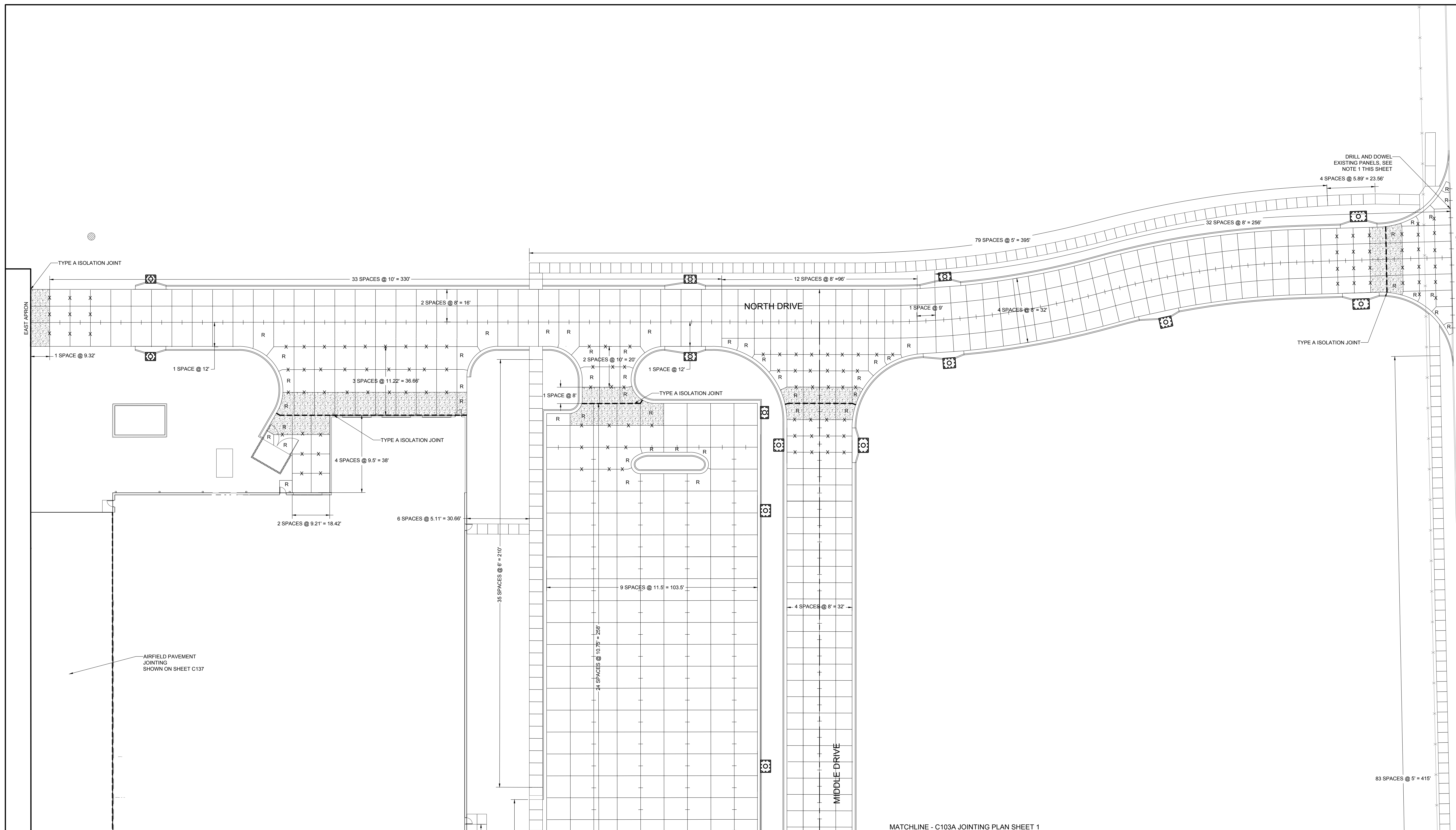
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SHEET TITLE

JOINTING PLAN
SHEET 1

C103A

SHEET 014 OF 131









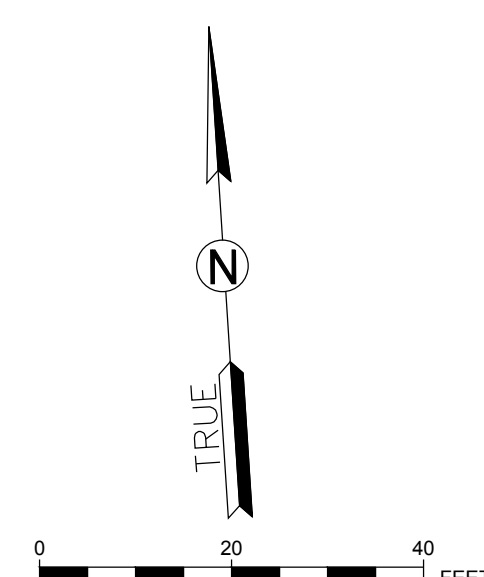
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MATCHLINE - C103B JOINTING PLAN SHEET 2

JOINTING NOTES

1. DRILL AND BOND DOWEL BARS INTO EXISTING PAVEMENT PRIOR TO PLACEMENT OF NEW PCC. MATCH EXISTING JOINTING.
2. ALL CONSTRUCTION JOINTS OR COLD JOINTS SHALL REQUIRE DRILL AND DOWELLED JOINTS
3. JOINTS ARE PRESENTED BASED ON AN EXPECTED PAVING PLAN FOR THIS PROJECT. CONTRACTOR MAY ELECT TO PAVE THE SITE DIFFERENTLY. HOWEVER, CONTRACTOR MUST PREPARE AND SUBMIT PAVING PLAN WITH AN ALTERNATIVE JOINTING PLAN TO ENGINEER FOR REVIEW. PAVING PLAN AND ALTERNATIVE JOINTING PLAN SHALL BE SUBMITTED AT LEAST 10 CALENDAR DAYS IN ADVANCE OF ANY SCHEDULED PAVES. NO ADDITIONAL COSTS TO THE CONTRACT SHALL BE INCURRED BY THE OWNER FOR THE PREPARATION OF AN ALTERNATIVE JOINTING PLAN. NO ADDITIONAL COSTS TO THE CONTRACT SHALL BE INCURRED BY THE OWNER IF AN ALTERNATIVE JOINTING PLAN IS ACCEPTED.
4. SEE SHEET C138 FOR JOINTING DETAILS

LEGEND

- | | |
|---|--|
|  | ISOLATION JOINT - TYPE A |
|  | DOWELED CONSTRUCTION JOINT - TYPE E |
|  | DOWELED CONTRACTION JOINT - TYPE C |
|  | EXISTING JOINT |
|  | PANEL WITH THICKENED EDGE |
|  | ODD-SHAPED PANEL WITH MESH REINFORCEMENT |

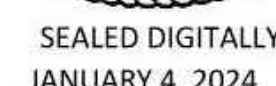




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EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

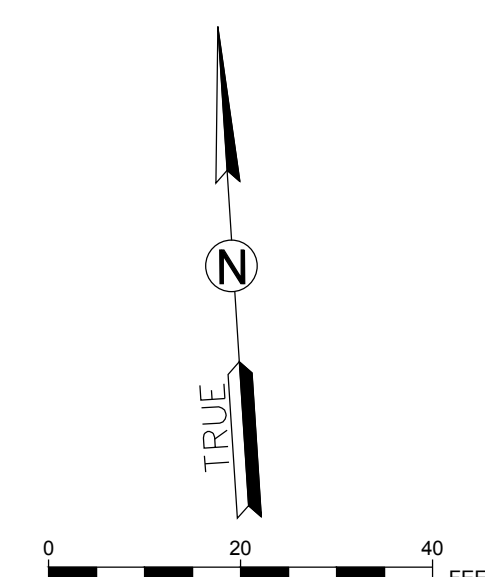


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SHEET TITLE

C103B

SHEET 015 OF 131



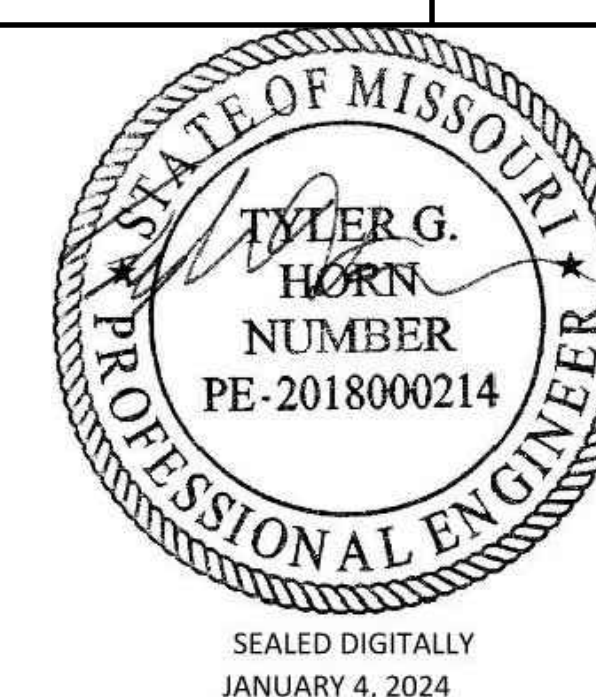
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1627 MAIN STREET, #10
KANSAS CITY, MO 64108

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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

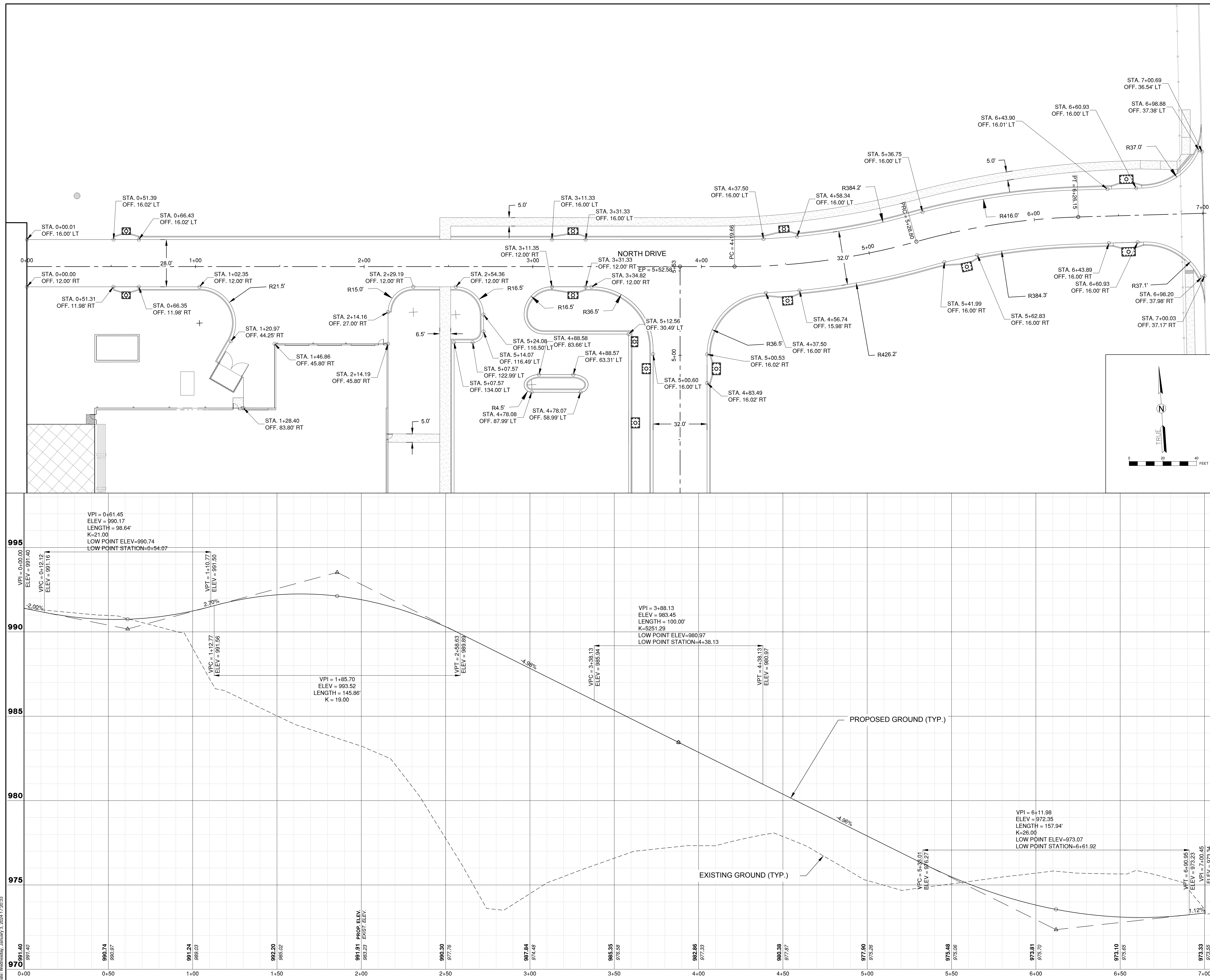
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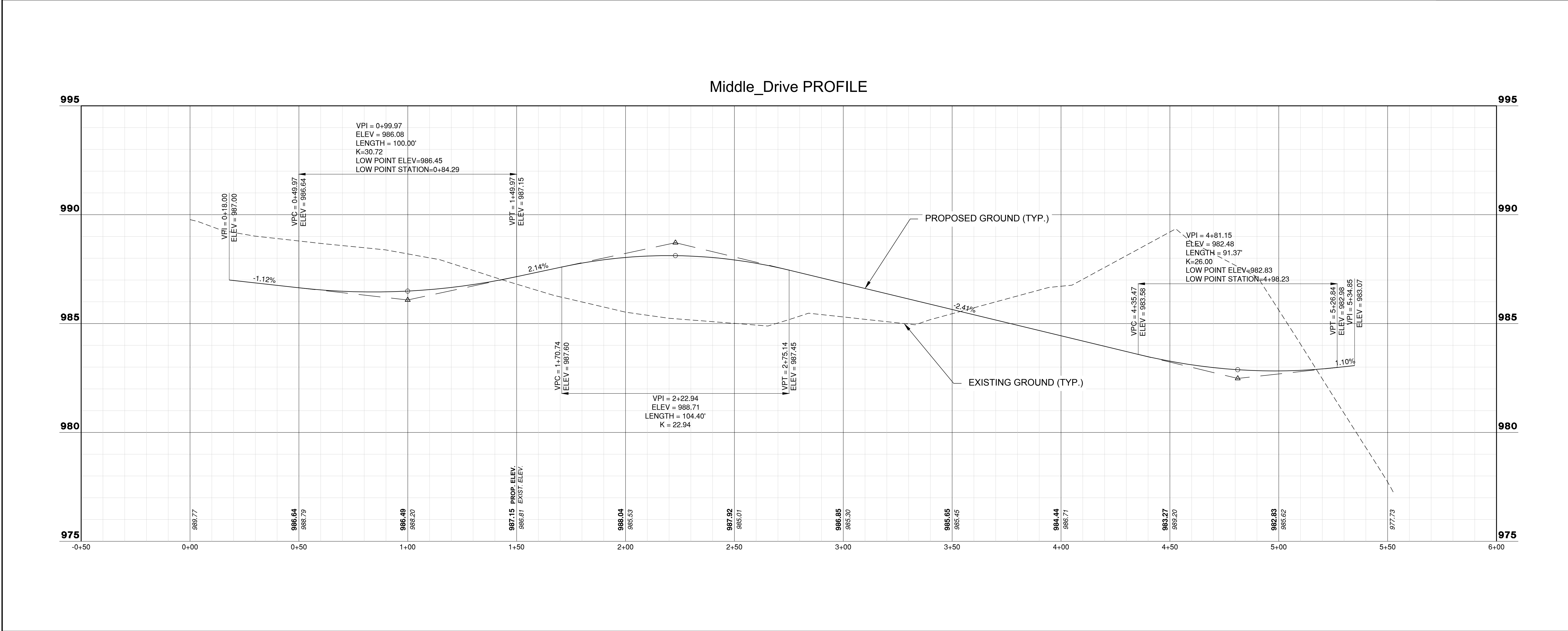
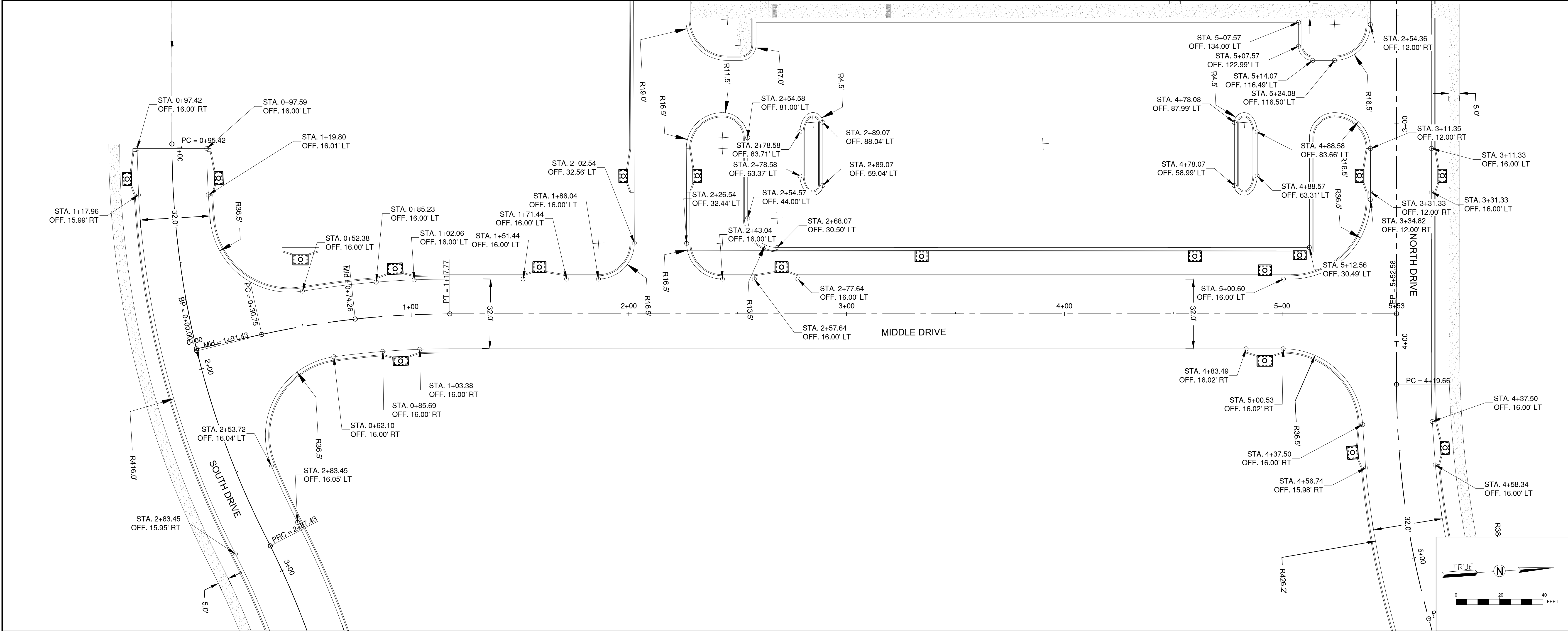
NORTH DRIVE PLAN & PROFILE

C104

SHEET 013 OF 131



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KANSAS CITY, MO 64108



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KANSAS CITY, MO 64108



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

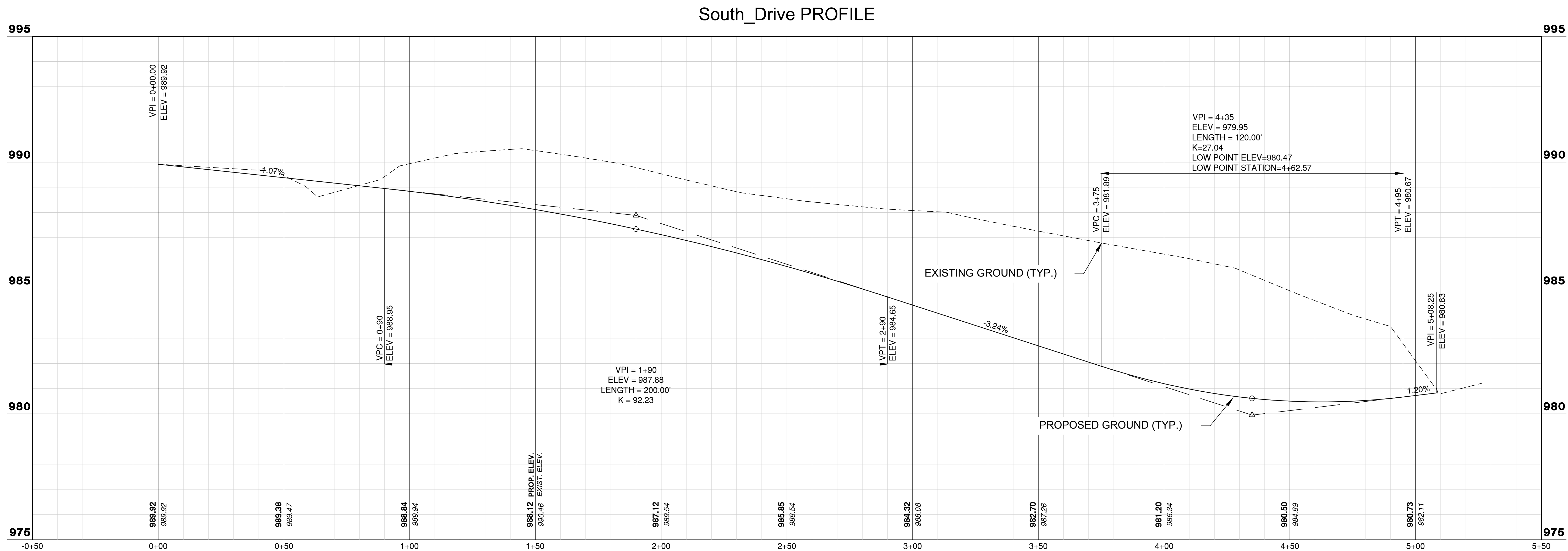
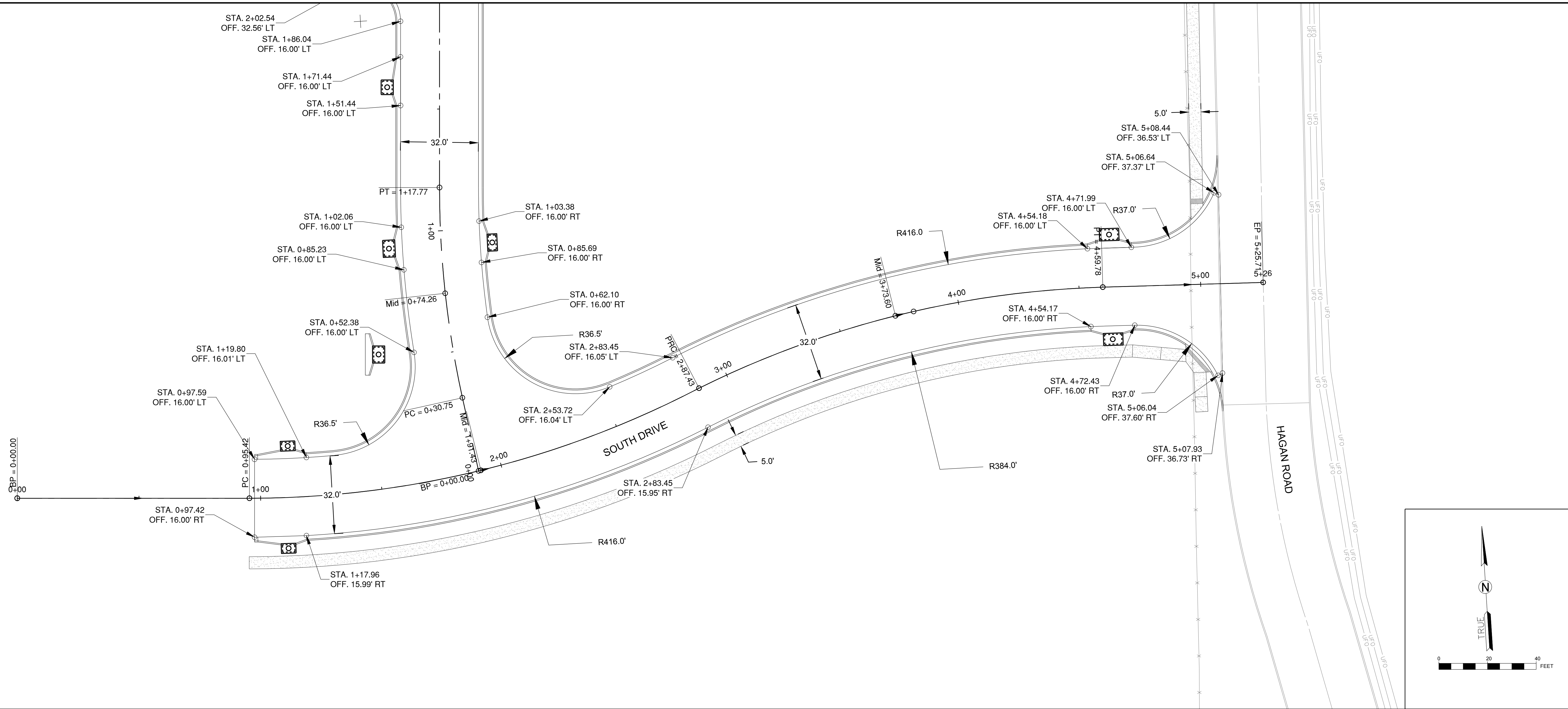
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SHEET TITLE

MIDDLE DRIVE PLAN &
PROFILE

C105

SHEET 014 OF 131



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



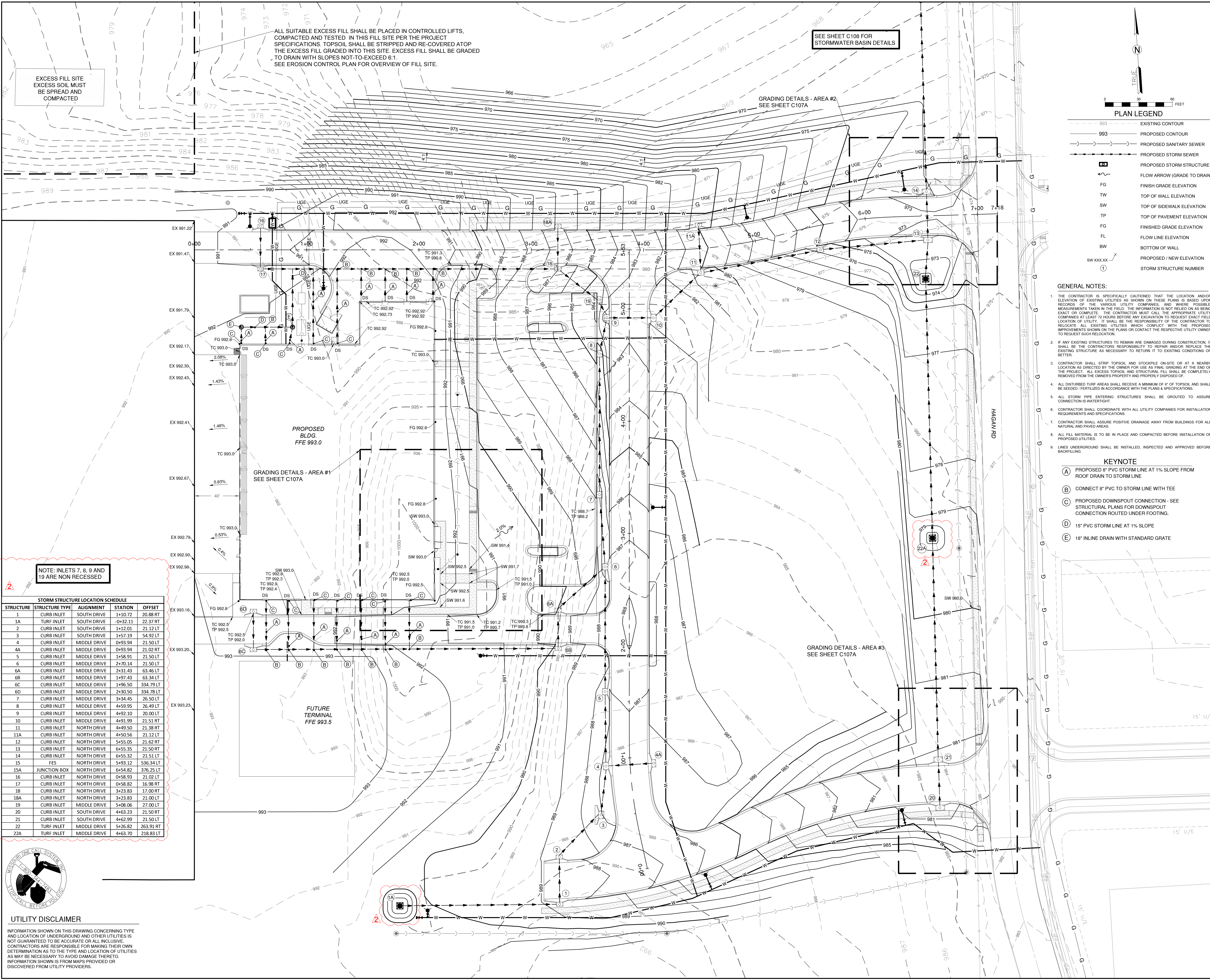
LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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SOUTH DRIVE PLAN &
PROFILE

C106

SHEET 015 OF 131



EXCESS FILL SITE
EXCESS SOIL MUST
BE SPREAD AND
COMPACTED

ALL SUITABLE EXCESS FILL SHALL BE PLACED IN CONTROLLED LIFTS,
COMPACTED AND TESTED IN THIS FILL SITE PER THE PROJECT
SPECIFICATIONS. TOPSOIL SHALL BE STRIPPED AND RE-COVERED ATOP
THE EXCESS FILL GRADED INTO THIS SITE. EXCESS FILL SHALL BE GRADED
TO DRAIN WITH SLOPES NOT-TO-EXCEED 6:1.
SEE EROSION CONTROL PLAN FOR OVERVIEW OF FILL SITE.

SEE SHEET C108 FOR
STORMWATER BASIN DETAILS

GRADING DETAILS - AREA #2
SEE SHEET C107A

PROPOSED
BLDG
FFE 993.0

GRADING DETAILS - AREA #1
SEE SHEET C107A

GRADING DETAILS - AREA #3
SEE SHEET C107A

FUTURE
TERMINAL
FFE 993.5

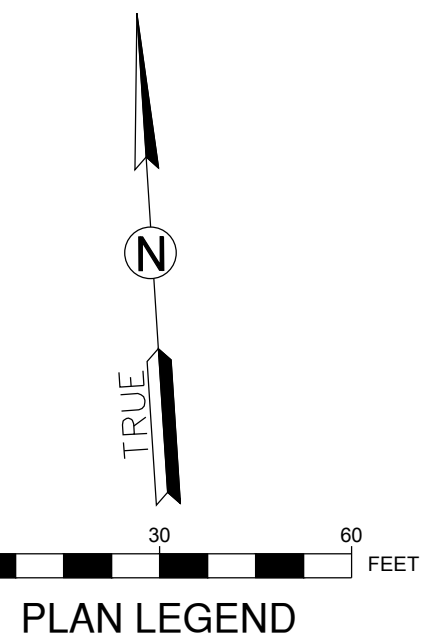
NOTE: INLETS 7, 8, 9 AND
19 ARE NON RECESSED

STORM STRUCTURE LOCATION SCHEDULE				
STRUCTURE	STRUCTURE TYPE	ALIGNMENT	STATION	OFFSET
1	CURB INLET	SOUTH DRIVE	1+10.72	20.88 RT
1A	TURF INLET	SOUTH DRIVE	0+32.11	22.37 RT
2	CURB INLET	SOUTH DRIVE	1+42.01	21.12 LT
3	CURB INLET	SOUTH DRIVE	1+57.19	54.92 LT
4	CURB INLET	MIDDLE DRIVE	0+93.94	21.50 LT
4A	CURB INLET	MIDDLE DRIVE	0+93.94	21.02 RT
5	CURB INLET	MIDDLE DRIVE	1+58.91	21.50 LT
6	CURB INLET	MIDDLE DRIVE	2+70.14	21.50 LT
6A	CURB INLET	MIDDLE DRIVE	2+31.43	63.46 LT
6B	CURB INLET	MIDDLE DRIVE	1+97.43	63.34 LT
6C	CURB INLET	MIDDLE DRIVE	1+96.50	334.79 LT
6D	CURB INLET	MIDDLE DRIVE	2+30.50	334.78 LT
7	CURB INLET	MIDDLE DRIVE	3+34.45	26.50 LT
8	CURB INLET	MIDDLE DRIVE	4+59.95	26.49 LT
9	CURB INLET	MIDDLE DRIVE	4+92.10	20.00 LT
10	CURB INLET	MIDDLE DRIVE	4+91.99	21.51 RT
11	CURB INLET	NORTH DRIVE	4+49.50	21.38 RT
11A	CURB INLET	NORTH DRIVE	4+50.56	21.12 LT
12	CURB INLET	NORTH DRIVE	5+55.05	21.62 RT
13	CURB INLET	NORTH DRIVE	6+55.35	21.50 RT
14	CURB INLET	NORTH DRIVE	6+55.32	21.51 LT
15	FES	NORTH DRIVE	5+93.12	536.34 LT
15A	JUNCTION BOX	NORTH DRIVE	6+54.82	376.25 LT
16	CURB INLET	NORTH DRIVE	0+58.93	21.02 LT
17	CURB INLET	NORTH DRIVE	0+58.82	16.98 RT
18	CURB INLET	NORTH DRIVE	3+23.83	17.00 RT
18A	CURB INLET	NORTH DRIVE	3+23.83	21.00 LT
19	CURB INLET	MIDDLE DRIVE	5+08.06	27.00 LT
20	CURB INLET	SOUTH DRIVE	4+63.23	21.50 RT
21	CURB INLET	SOUTH DRIVE	4+62.99	21.50 LT
22	TURF INLET	MIDDLE DRIVE	5+26.82	263.91 RT
22A	TURF INLET	MIDDLE DRIVE	4+63.70	218.83 LT



UTILITY DISCLAIMER

INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE
AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS
NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE.
CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN
DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES
AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO.
INFORMATION SHOWN IS FROM MAPS PROVIDED OR
DISCOVERED FROM UTILITY PROVIDERS.



- PLAN LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE
 - FLOW ARROW (GRADE TO DRAIN)
 - FG
 - TW
 - SW
 - TP
 - FL
 - BW
 - PROPOSED / NEW ELEVATION
 - STORM STRUCTURE NUMBER

GENERAL NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNER'S PROPERTY AND PROPERLY DISPOSED OF.
- ALL DISTURBED TURF AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL AND SHALL BE SEEDS, FERTILIZED IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION IS WATERTIGHT.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- ALL LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.

KEYNOTE

- PROPOSED 8" PVC STORM LINE AT 1% SLOPE FROM ROOF DRAIN TO STORM LINE
- CONNECT 8" PVC TO STORM LINE WITH TEE
- PROPOSED DOWNSPOUT CONNECTION - SEE STRUCTURAL PLANS FOR DOWNSPOUT CONNECTION ROUTED UNDER FOOTING.
- 15" PVC STORM LINE AT 1% SLOPE
- 18" INLINE DRAIN WITH STANDARD GRATE



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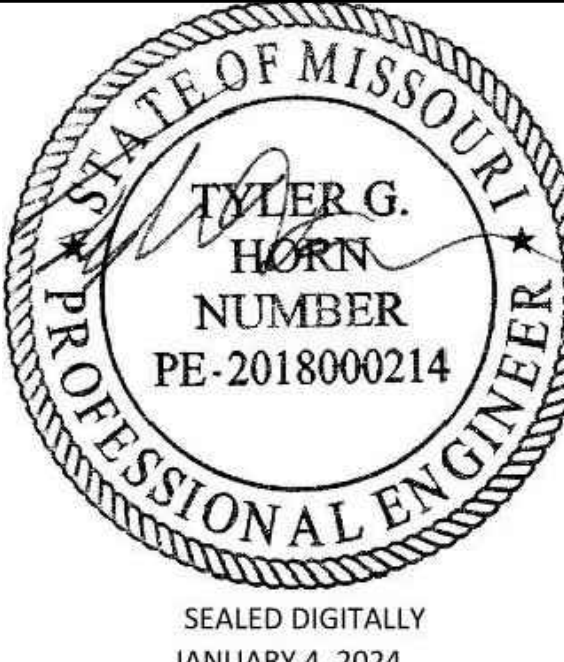


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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

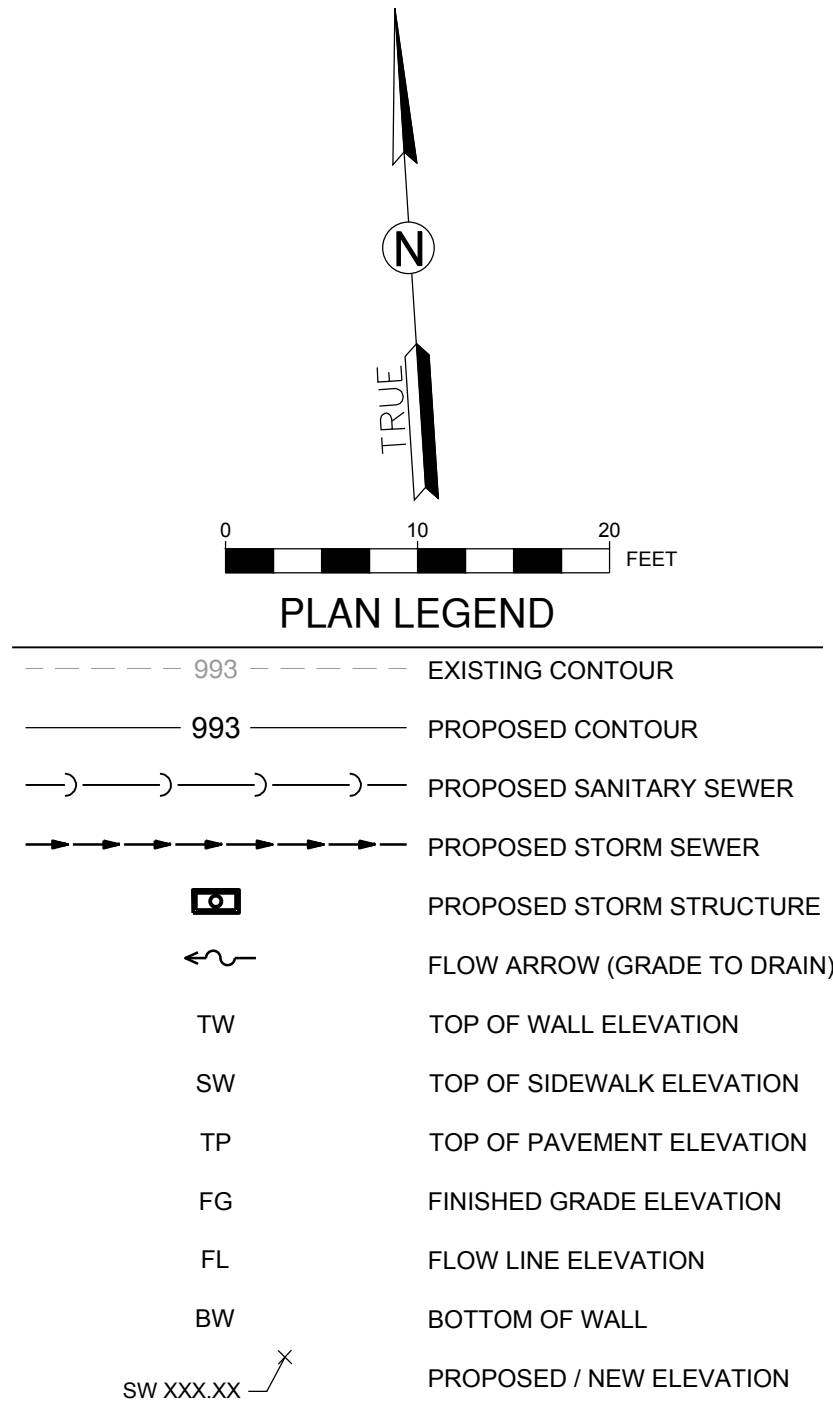
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GRADING PLAN

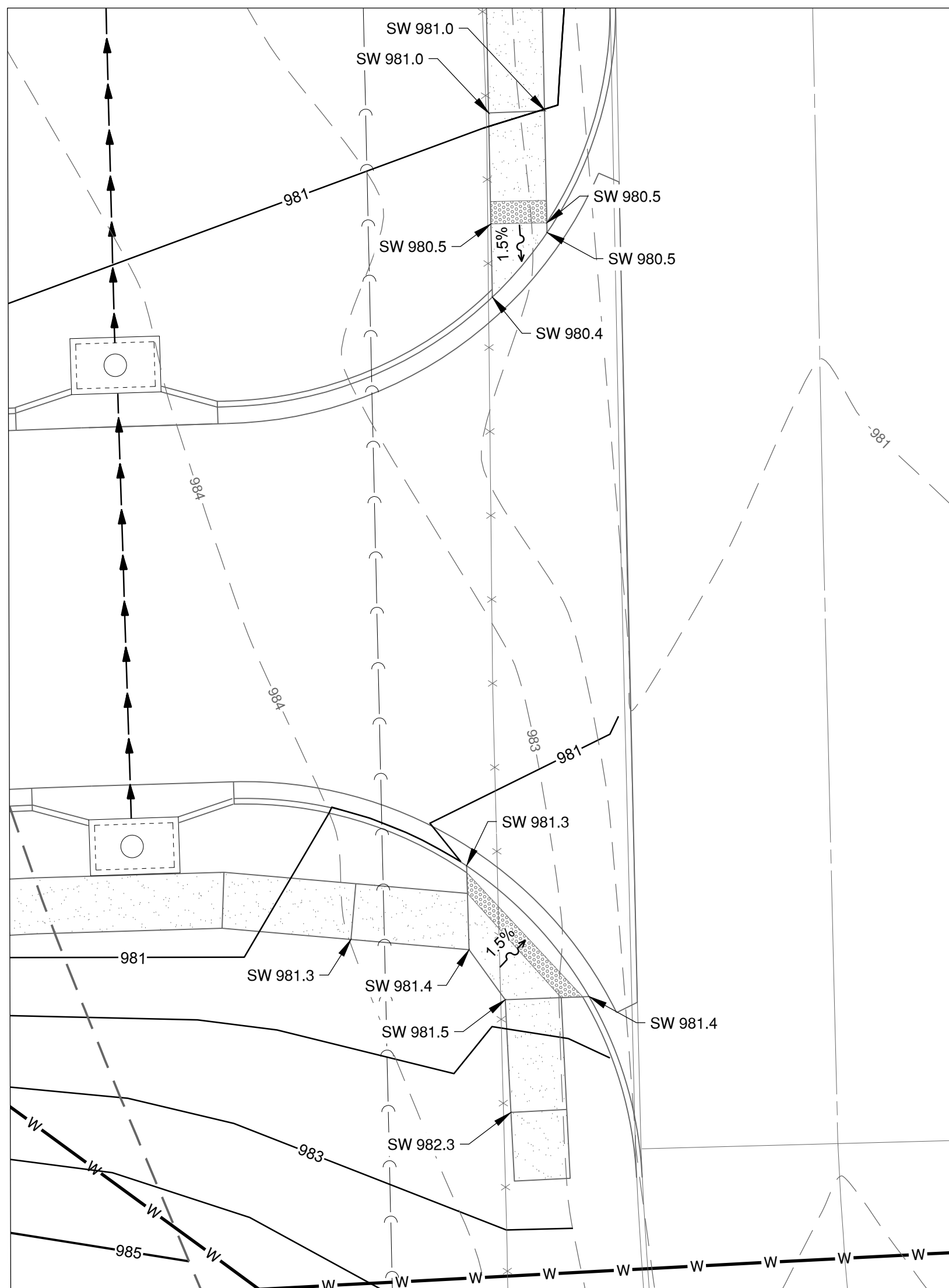
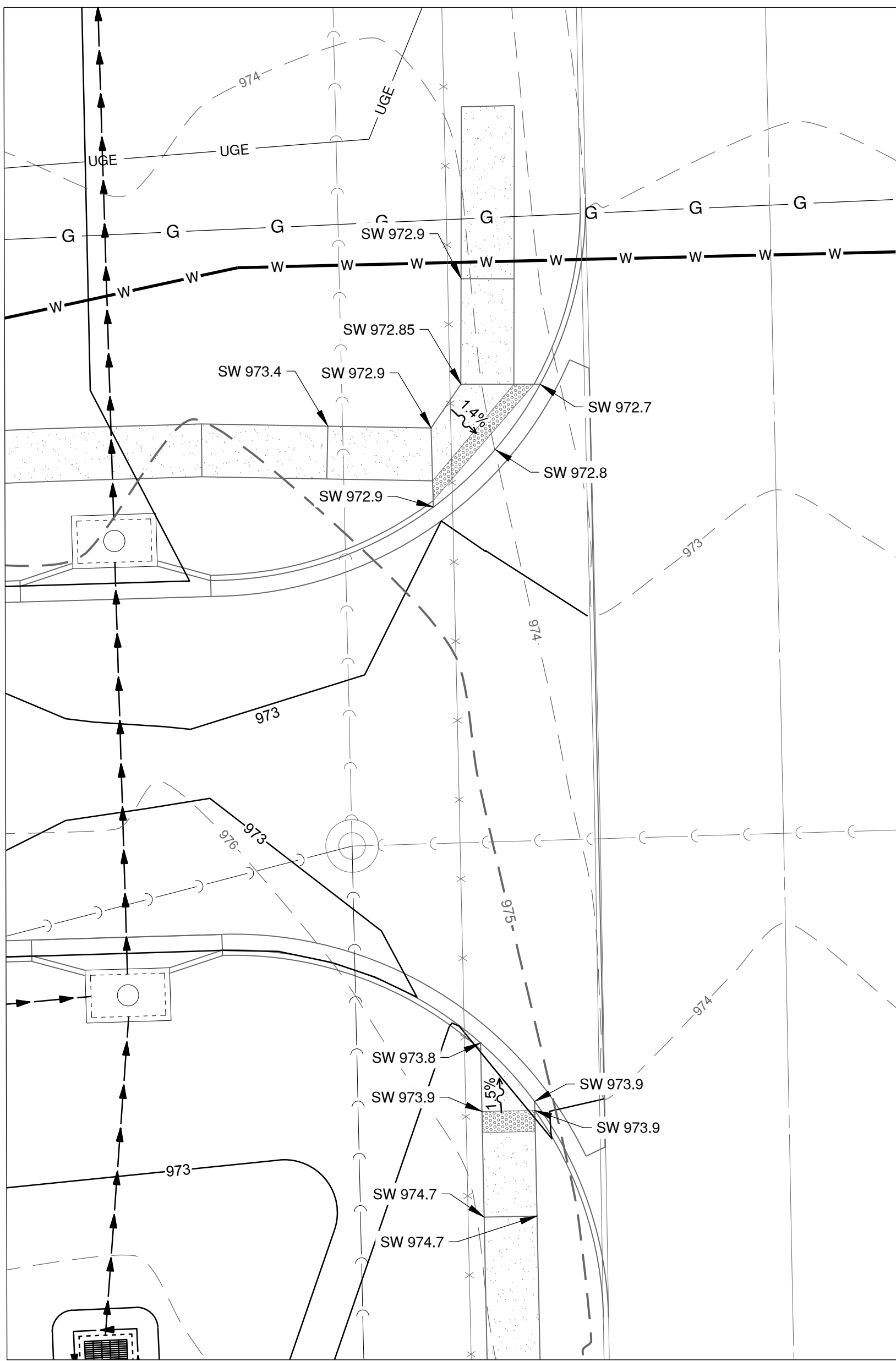
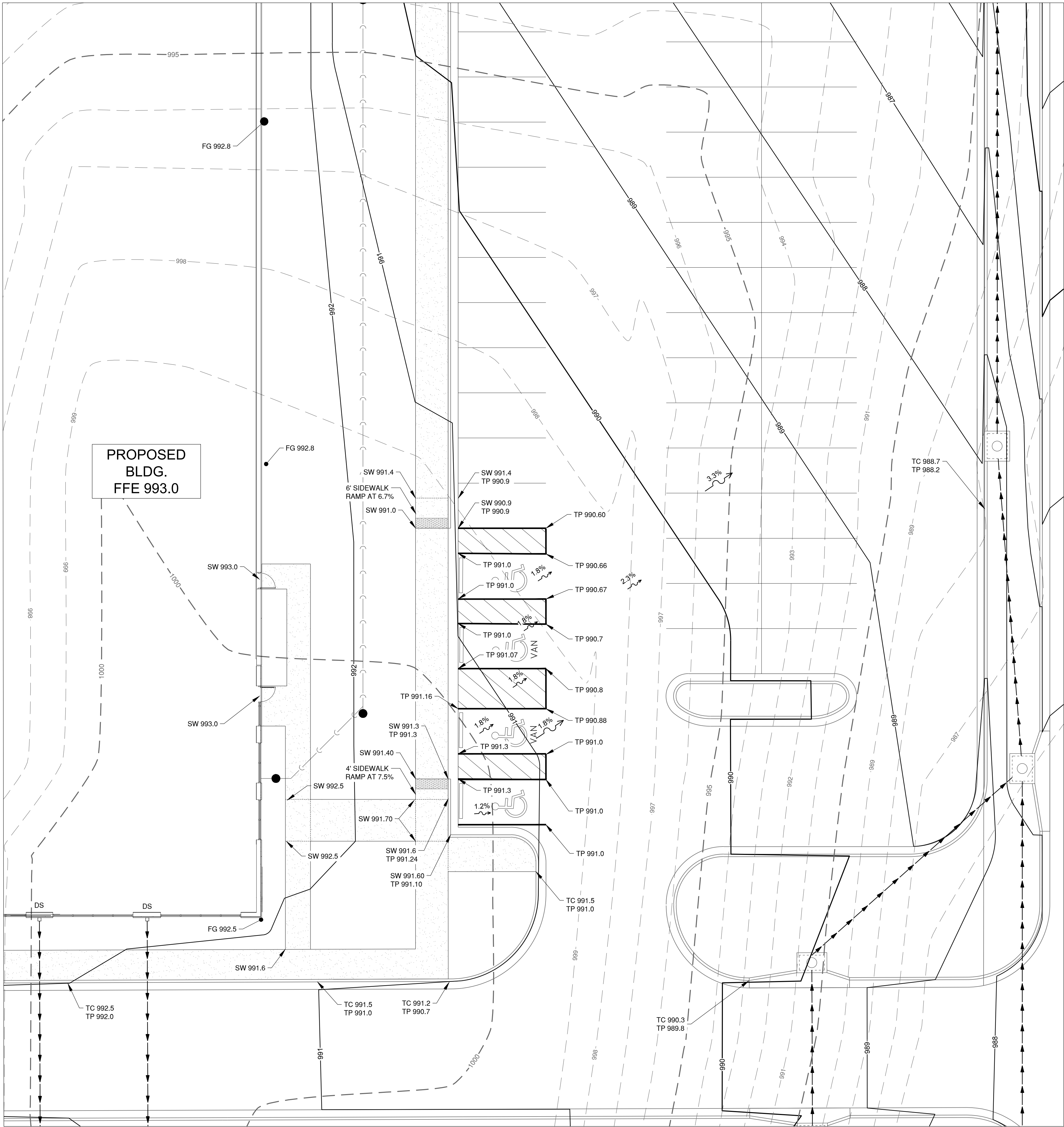
C107

SHEET 016 OF 131



GENERAL NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT REIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNER'S PROPERTY AND PROPERLY DISPOSED OF.
- ALL DISTURBED TURF AREAS SHALL RECEIVE A MINIMUM OF 1" OF TOPSOIL AND SHALL BE SEEDS/ FERTILIZED IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION IS WATERTIGHT.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- ALL UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO.: 47732472
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SHEET TITLE

GRADING DETAILS

C107A

SHEET 017 OF 131

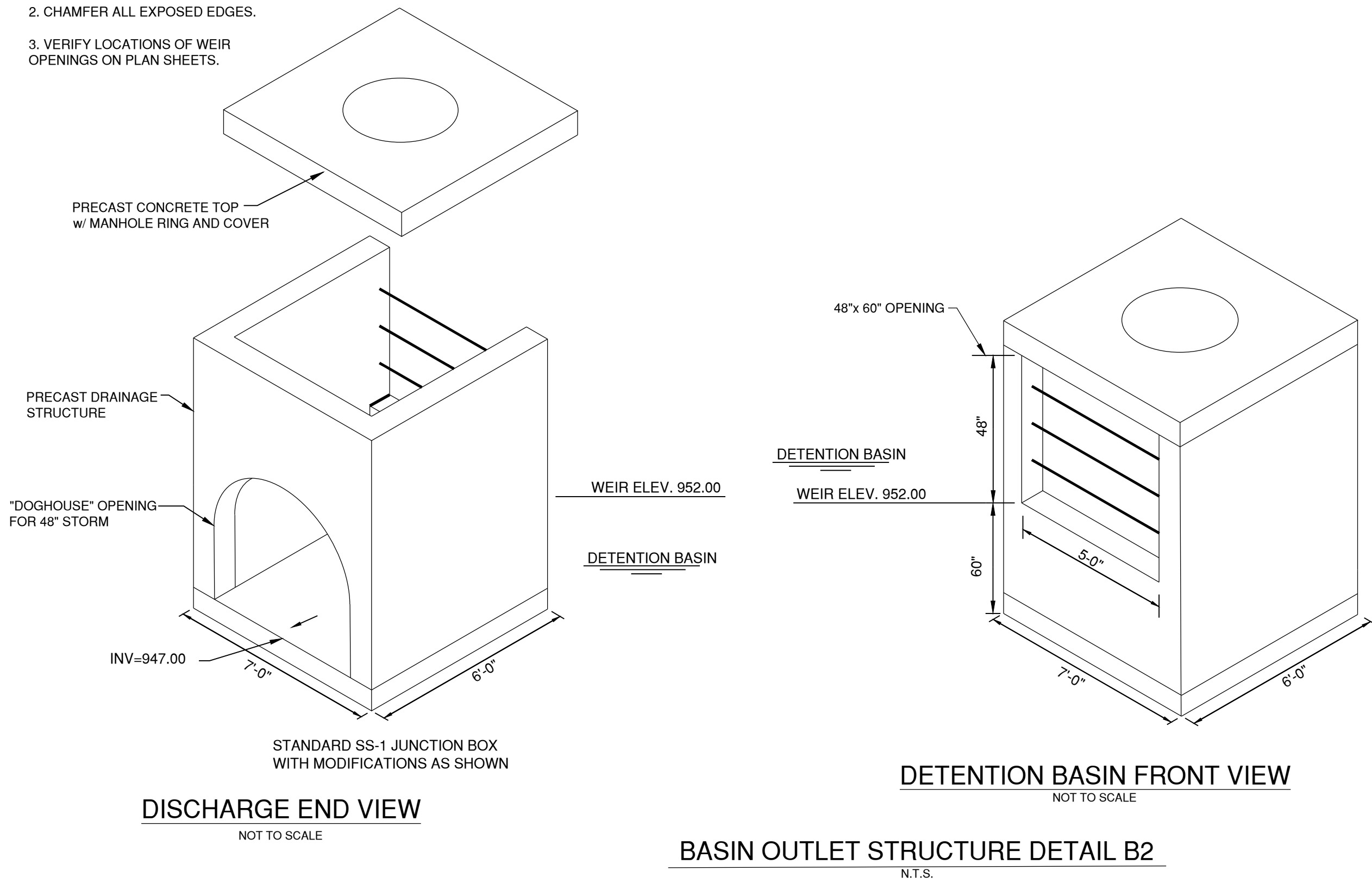


UTILITY DISCLAIMER

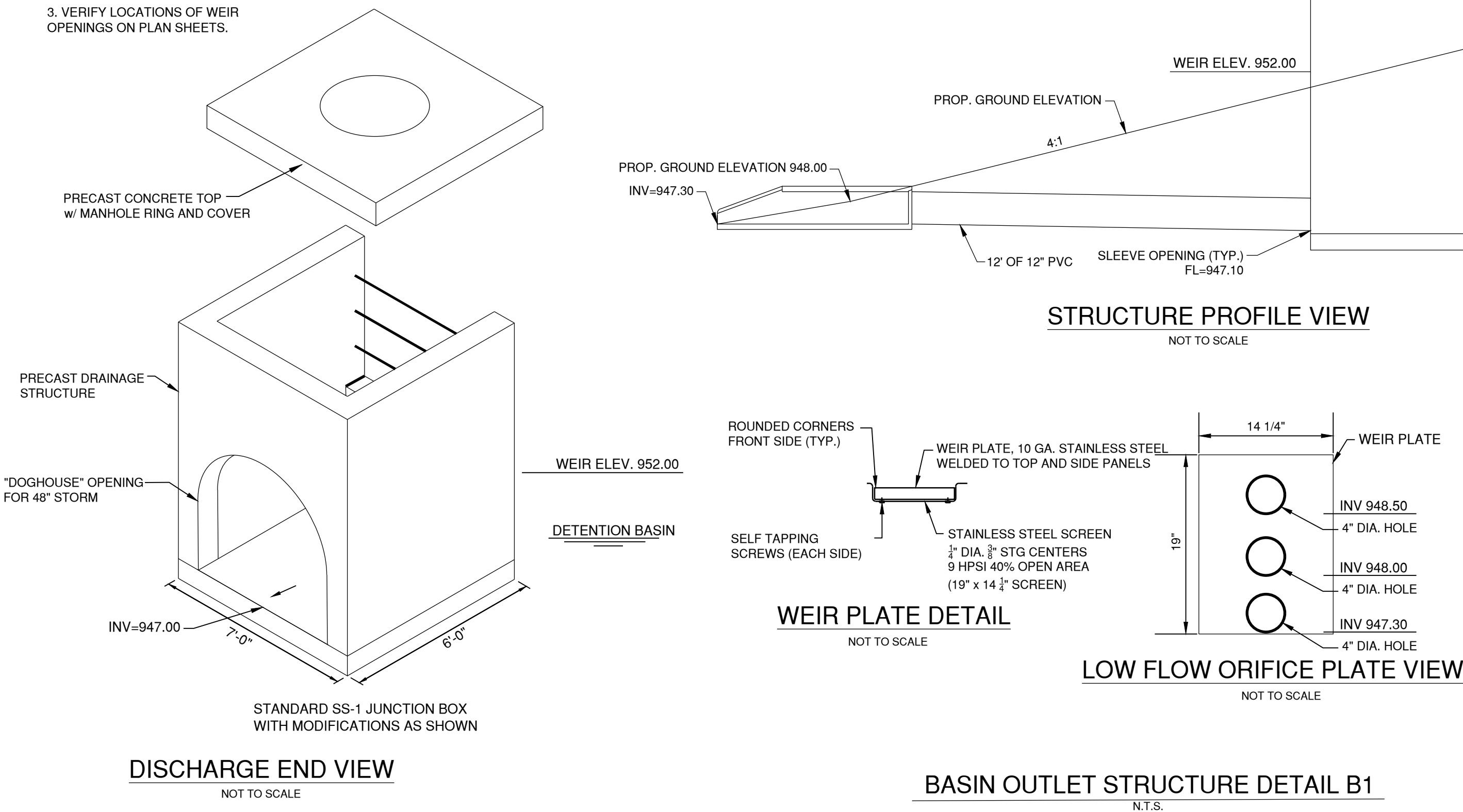
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Path: K:\leessummitmo2201238-00\Draw\Sheets\BASIN DETAIL.dwg
Date: Wednesday, January 3, 2024 11:23:00

- NOTES:
1. ANCHOR LID TO BOX. DRILL, DOWEL & GROUT OR APPROVED EQUAL.
 2. CHAMFER ALL EXPOSED EDGES.
 3. VERIFY LOCATIONS OF WEIR OPENINGS ON PLAN SHEETS.



- NOTES:
1. ANCHOR LID TO BOX. DRILL, DOWEL & GROUT OR APPROVED EQUAL.
 2. CHAMFER ALL EXPOSED EDGES.
 3. VERIFY LOCATIONS OF WEIR OPENINGS ON PLAN SHEETS.

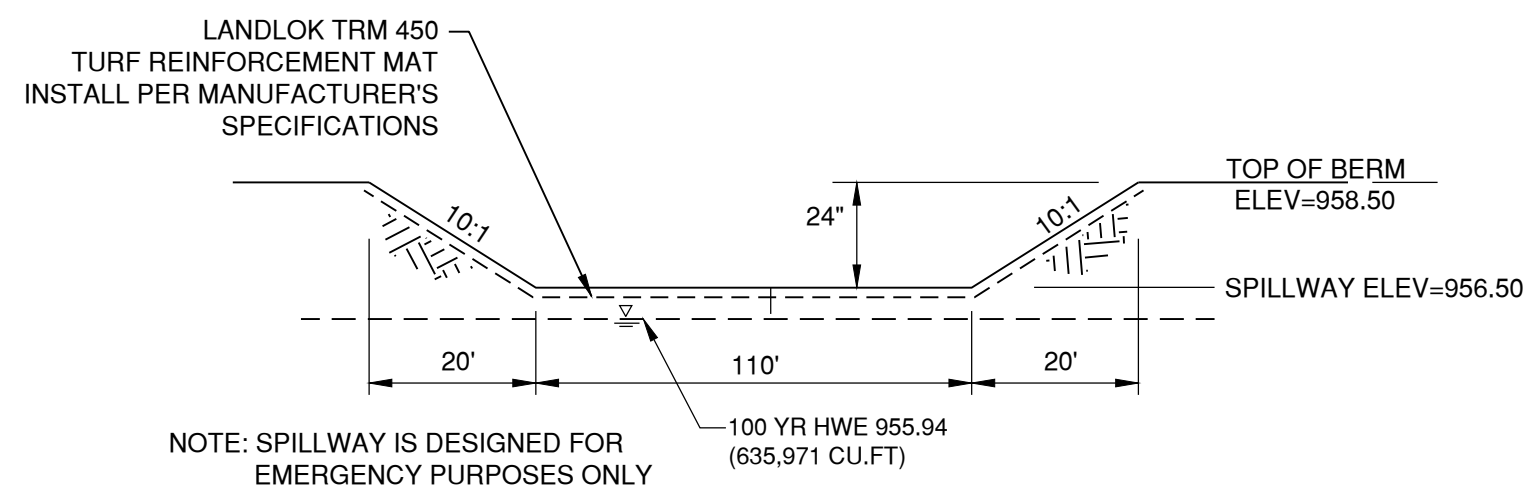


DETENTION BASIN STAGE-STORAGE-DISCHARGE

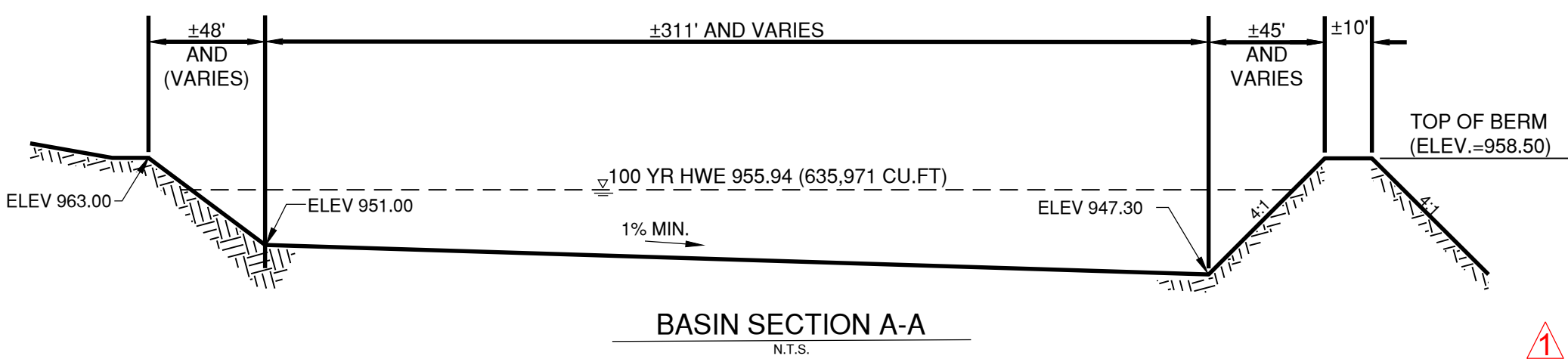
STAGE (FT)	ELEVATION (FT)	TOTAL STORAGE (CU.FT.)	DISCHARGE (CFS)
0.0	947.3	0	0.00
1.7	948.0	944	0.31
2.7	949.0	16,166	1.14
3.7	950.0	63,243	1.71
4.7	951.0	138,779	2.12
5.7	952.0	227,466	2.46
6.7	953.0	322,827	32.56
7.7	954.0	423,804	87.29
8.7	955.0	530,496	158.13
9.7	956.0	643,543	241.96

DETENTION BASIN VOLUME

STAGE (FT)	ELEVATION (FT)	CONTOUR AREA (SQ.FT.)	TOTAL STORAGE (CU.FT.)
0.0	947.3	0	0
1.7	948.0	4,260	944
2.7	949.0	29,960	16,166
3.7	950.0	66,600	63,243
4.7	951.0	84,840	138,779
5.7	952.0	92,590	227,466
6.7	953.0	98,160	322,827
7.7	954.0	103,620	423,804
8.7	955.0	109,590	530,496
9.7	956.0	117,612	643,543



EMERGENCY SPILLWAY SECTION



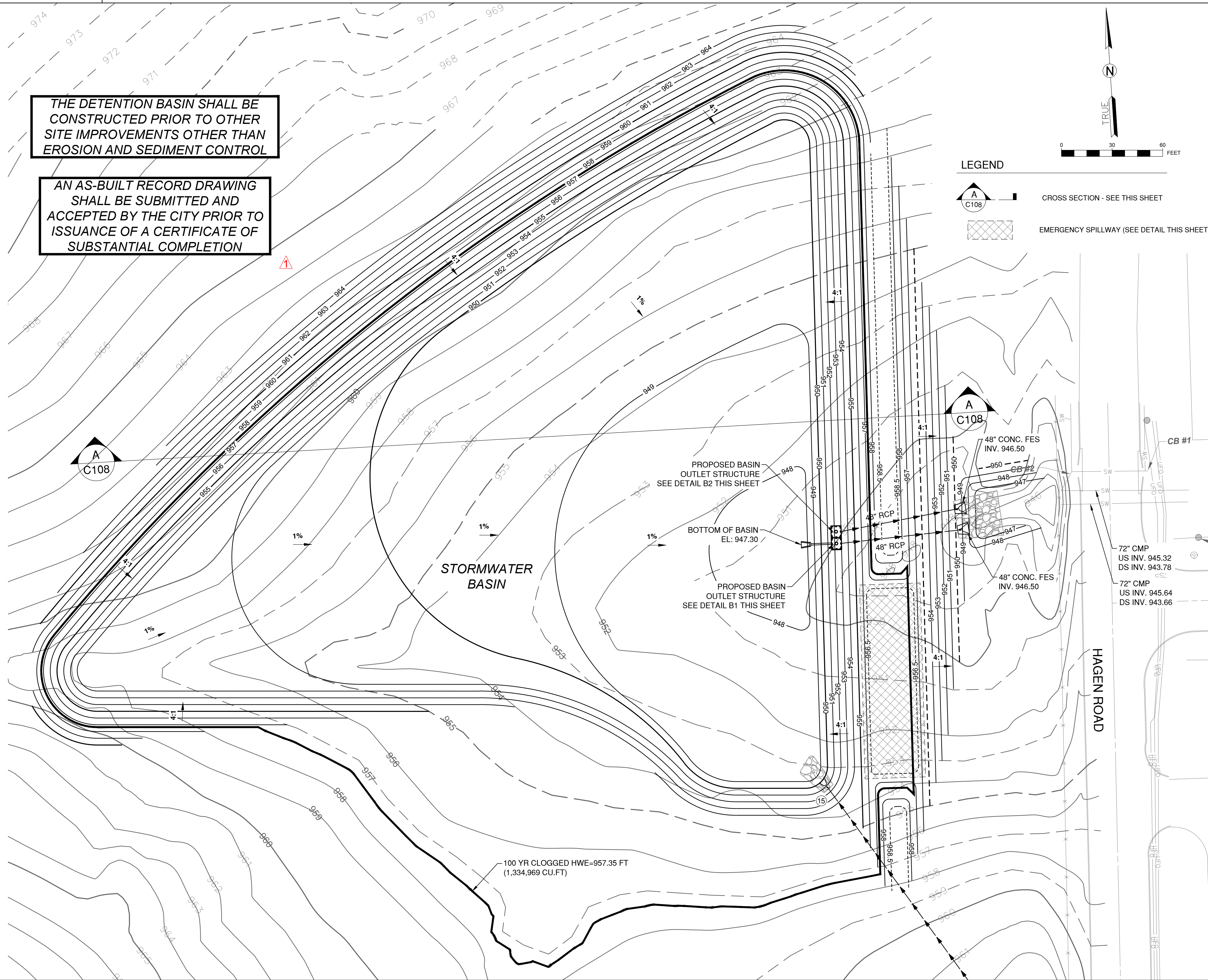
BASIN SECTION A-A

GRADING PLAN GENERAL NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES. AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
2. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
3. CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNERS PROPERTY AND PROPERLY DISPOSED OF.
4. ALL EXISTING AND PROPOSED GRADE CONTOURS SHOWN AT 1 FOOT INTERVALS.
5. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6. SLOPES SHALL BE A MAXIMUM OF 4:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.

THE DETENTION BASIN SHALL BE CONSTRUCTED PRIOR TO OTHER SITE IMPROVEMENTS OTHER THAN EROSION AND SEDIMENT CONTROL

AN AS-BUILT RECORD DRAWING SHALL BE SUBMITTED AND ACCEPTED BY THE CITY PRIOR TO ISSUANCE OF A CERTIFICATE OF SUBSTANTIAL COMPLETION



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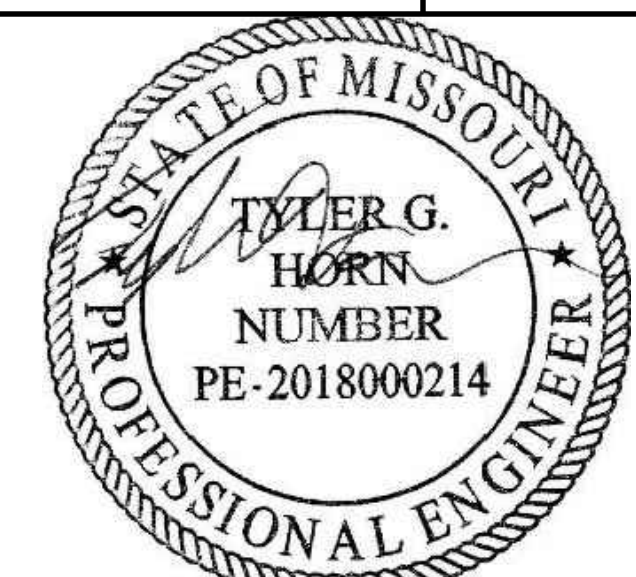
1627 MAIN STREET, #100
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1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO.: 47732472
CAD DWG FILE: BASIN DETAIL
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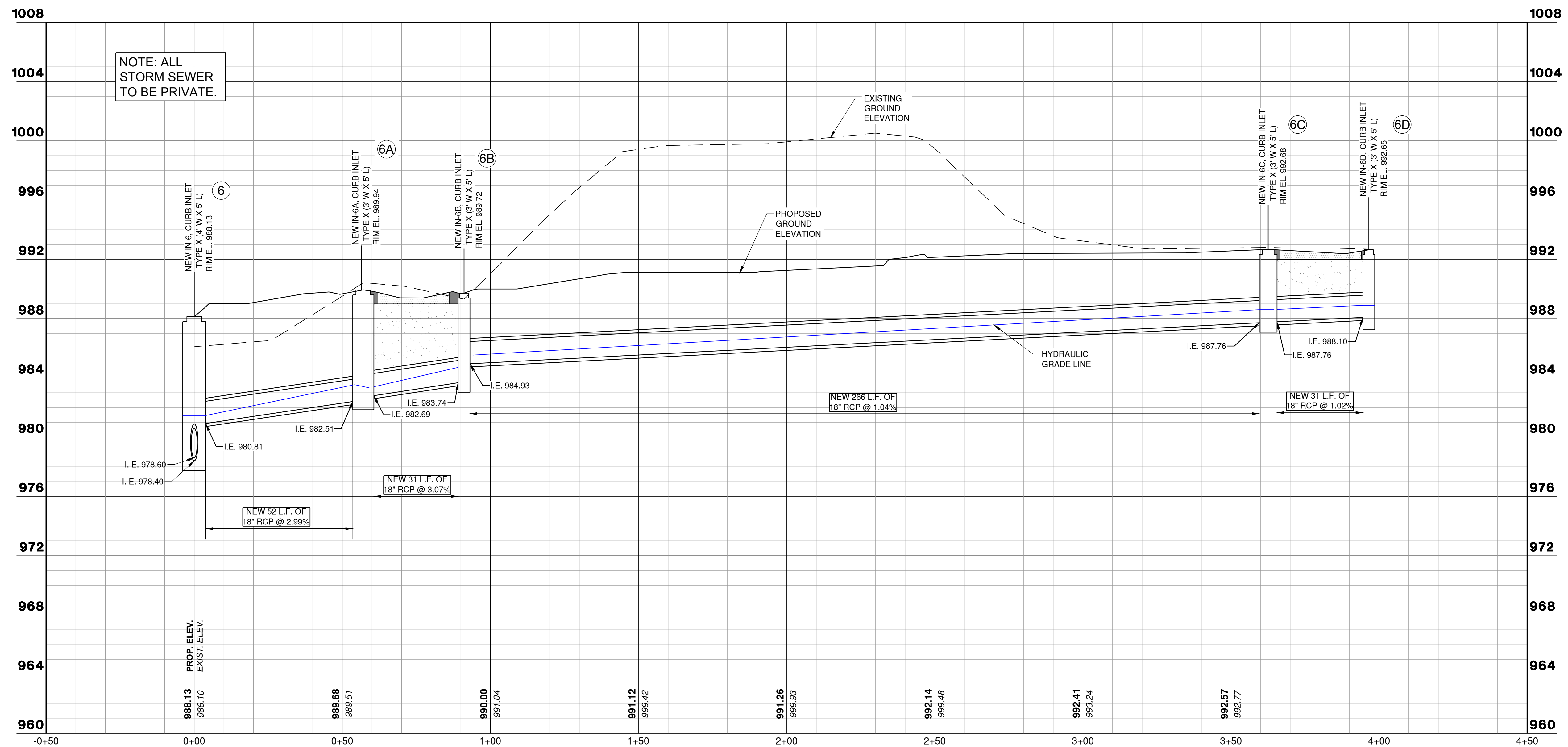
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BASIN DETAIL

C108

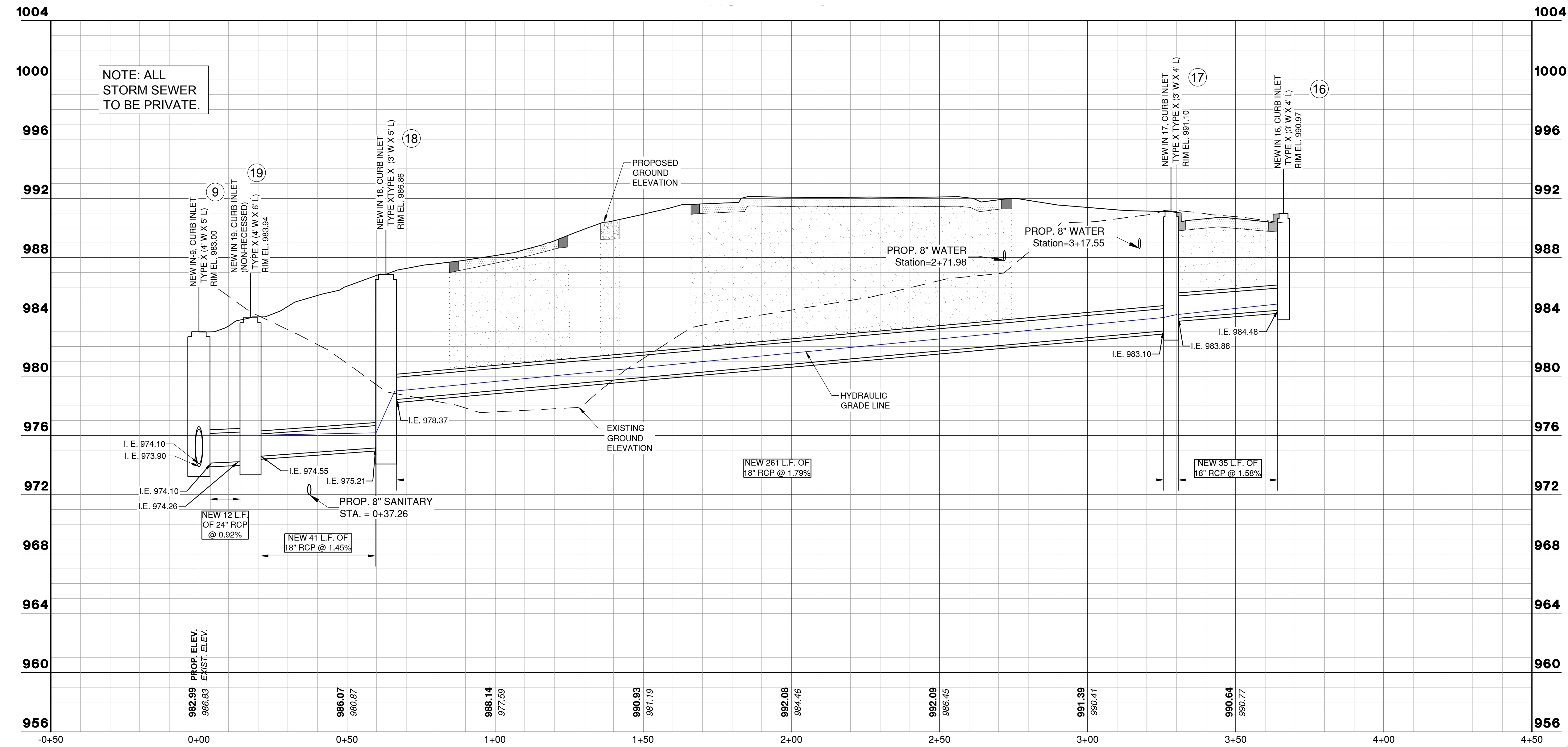
SHEET 018 OF 131

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Date: Wednesday, January 3, 2024 11:23:27



LEGEND

- NEW SIDEWALK
- NEW PAVEMENT
- NEW TRENCH BACKFILL
- NEW CURB AND GUTTER
- EXISTING GROUND ELEVATION
- PROPOSED GROUND ELEVATION
- 25 YEAR HYDRAULIC GRADE LINE



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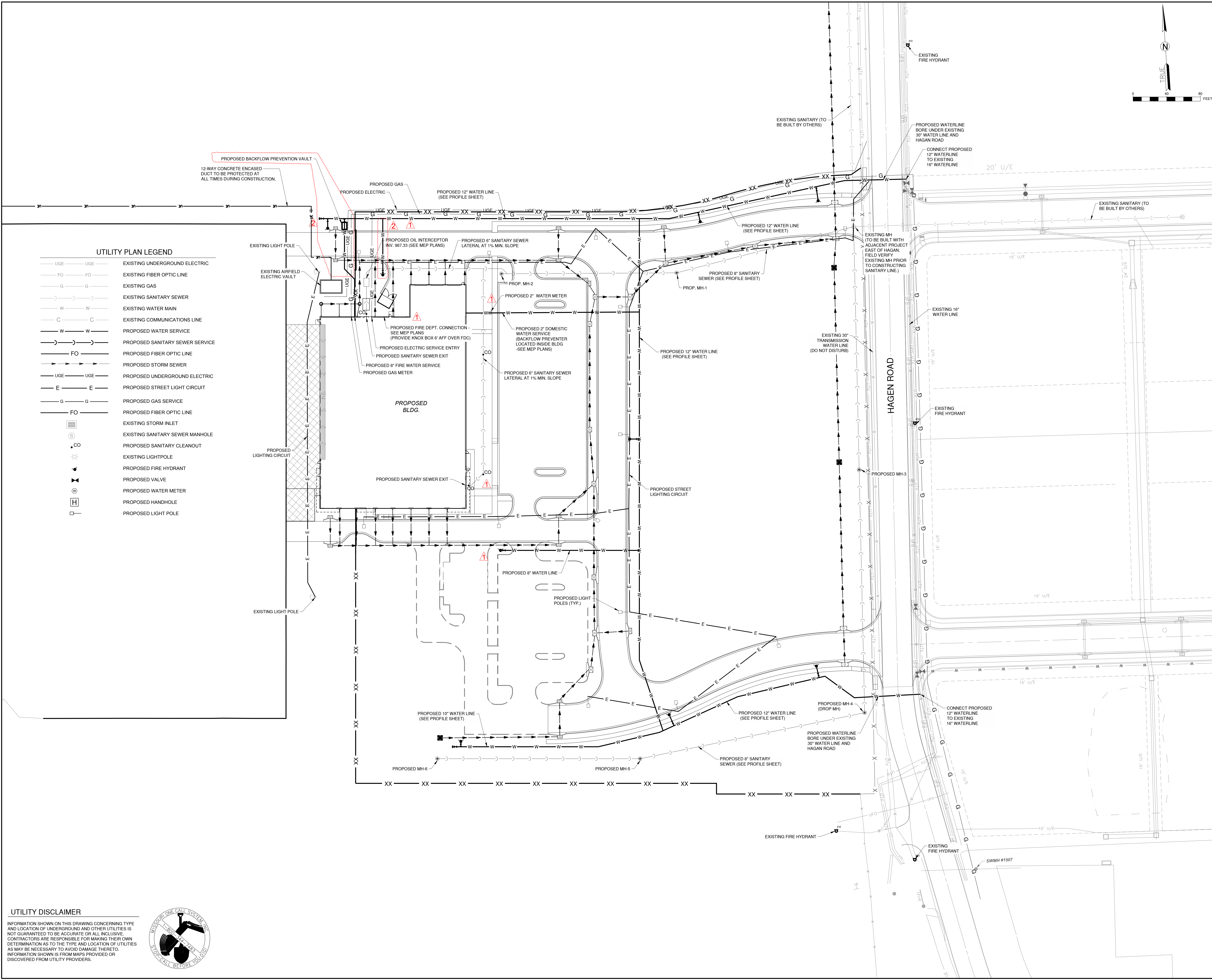
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CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
PROJECT NO:	47732472	
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**STORM PROFILE -
SHEET 3**



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

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JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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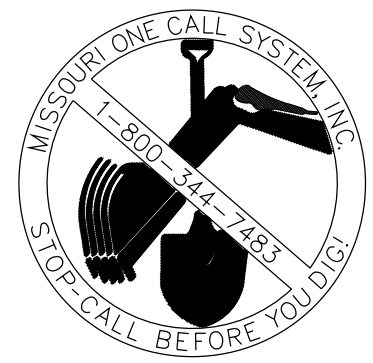
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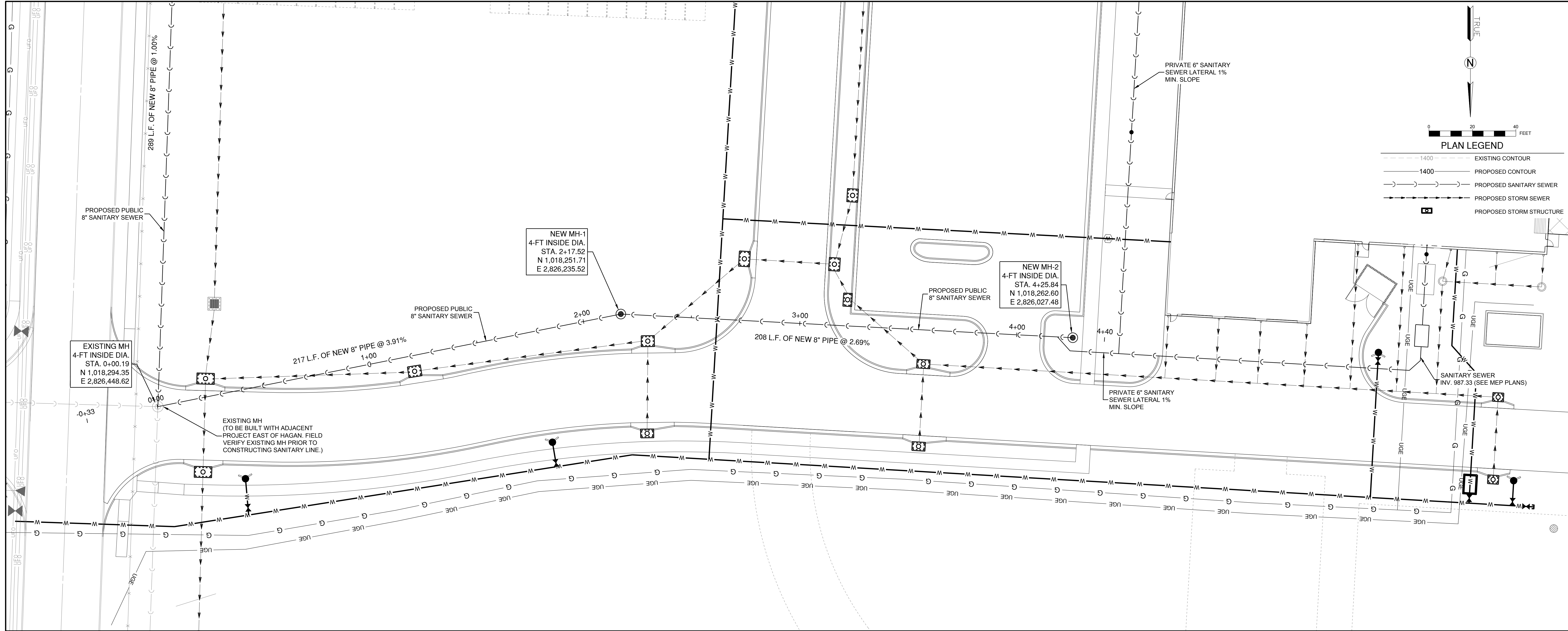
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UTILITY DISCLAIMER

INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. INFORMATION SHOWN IS FROM MAPS PROVIDED OR DISCOVERED FROM UTILITY PROVIDERS.





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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

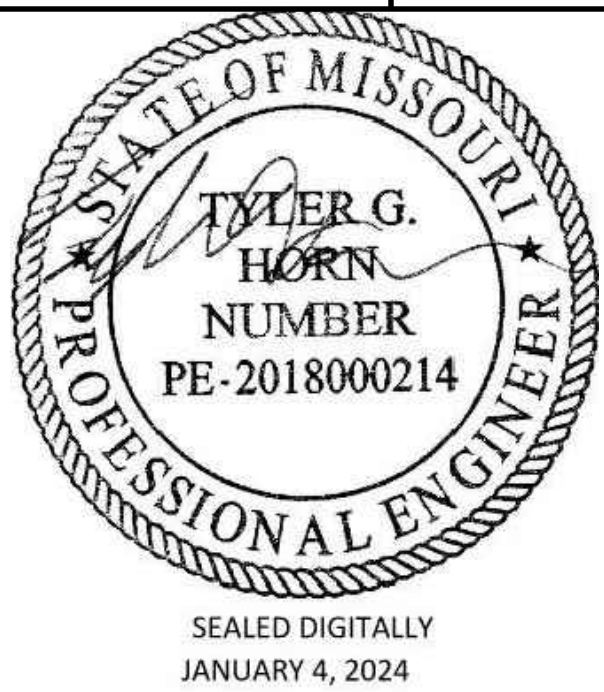
1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT

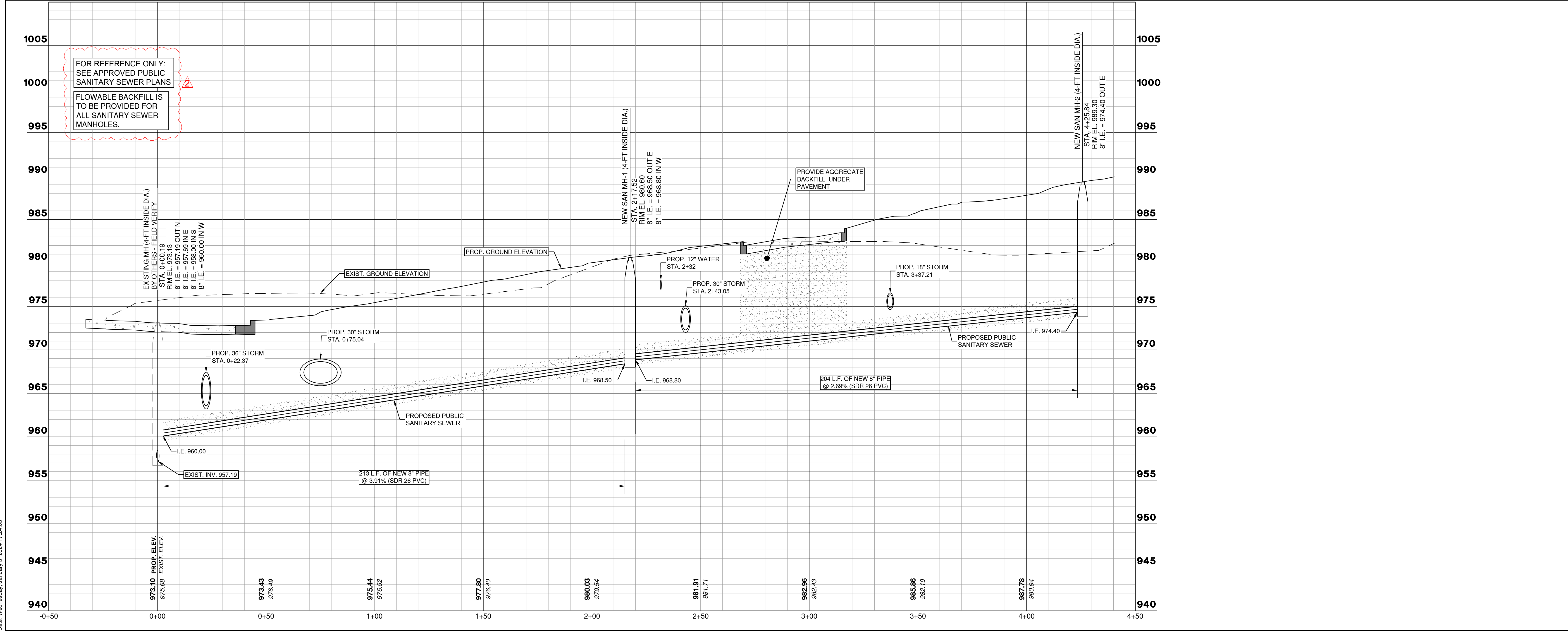
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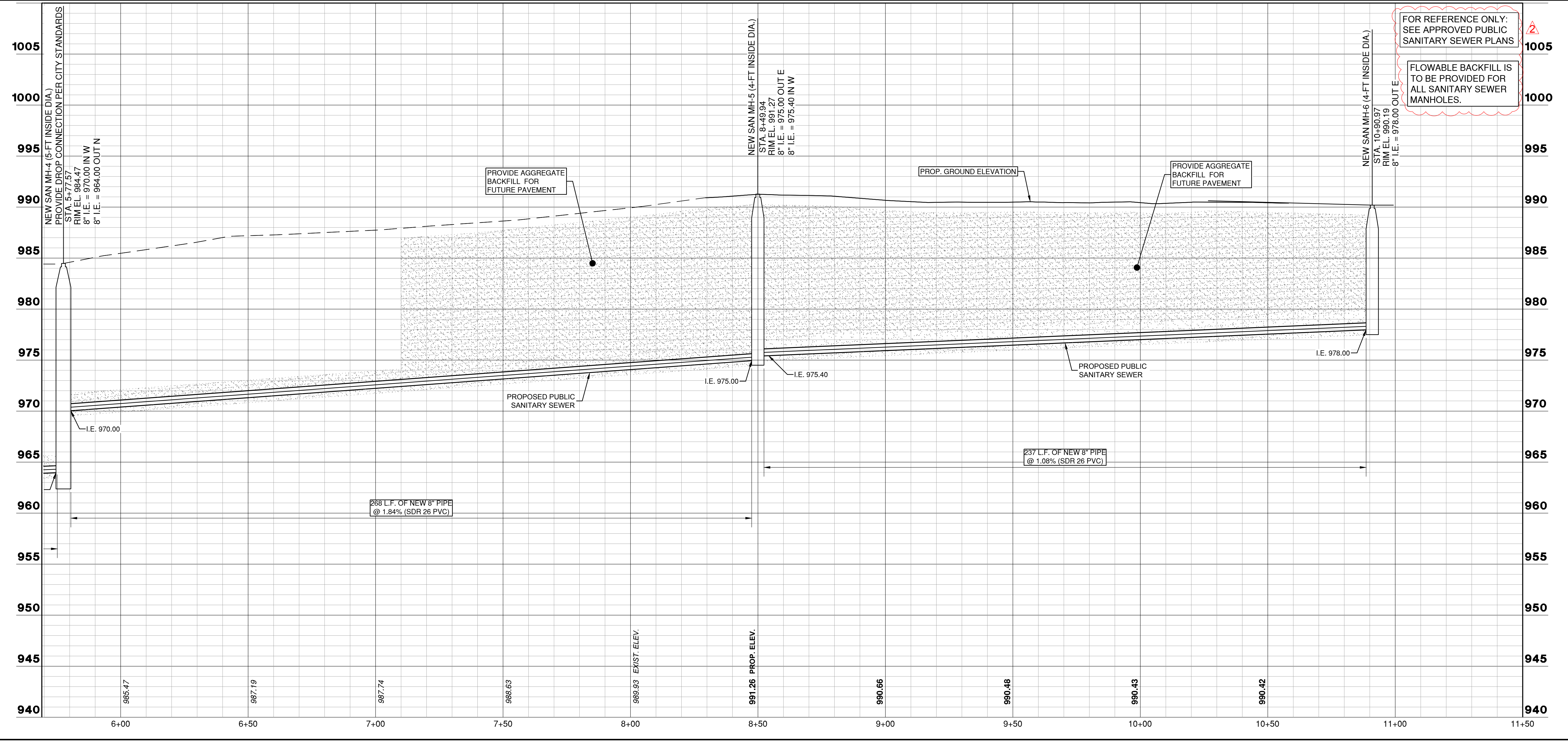
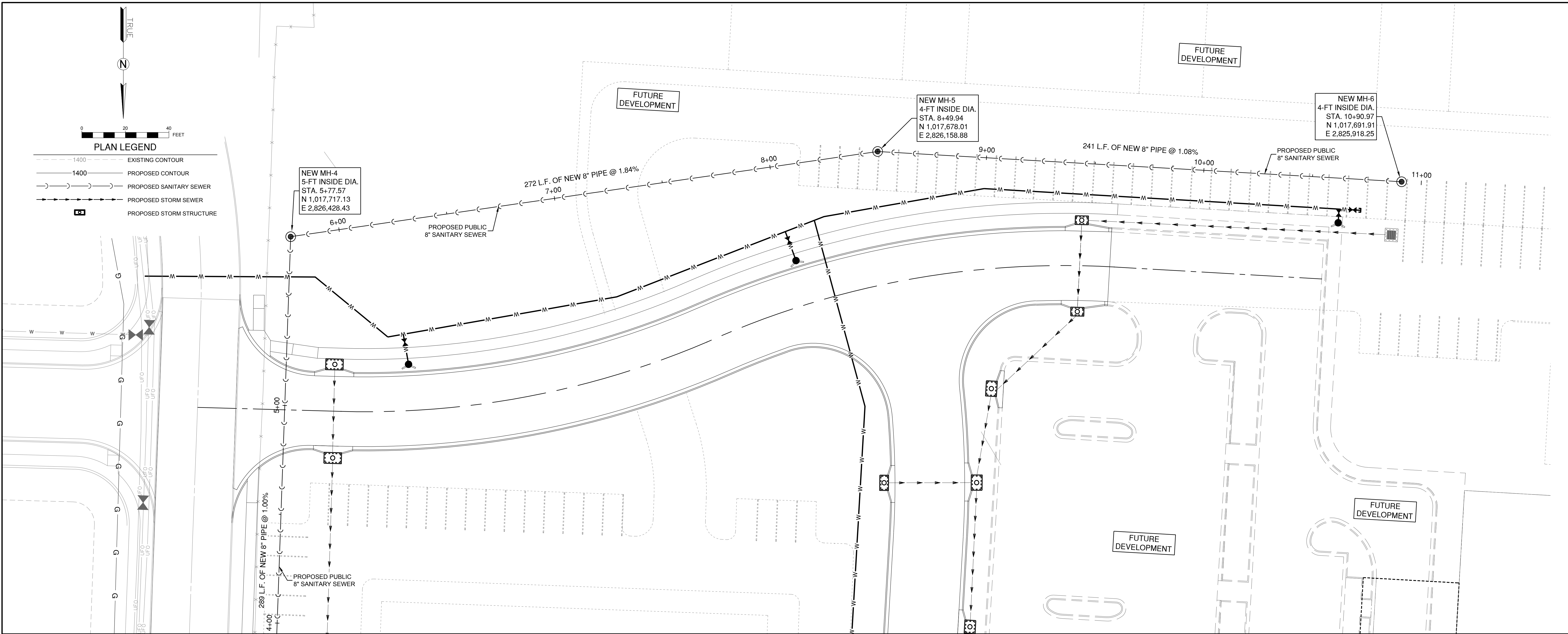
EASTSIDE DEVELOPMENT

CITY PROJECT NO. - 47732472



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SANITARY PLAN & PROFILE - SHEET 1		
C114		
SHEET 024 OF 131		





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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



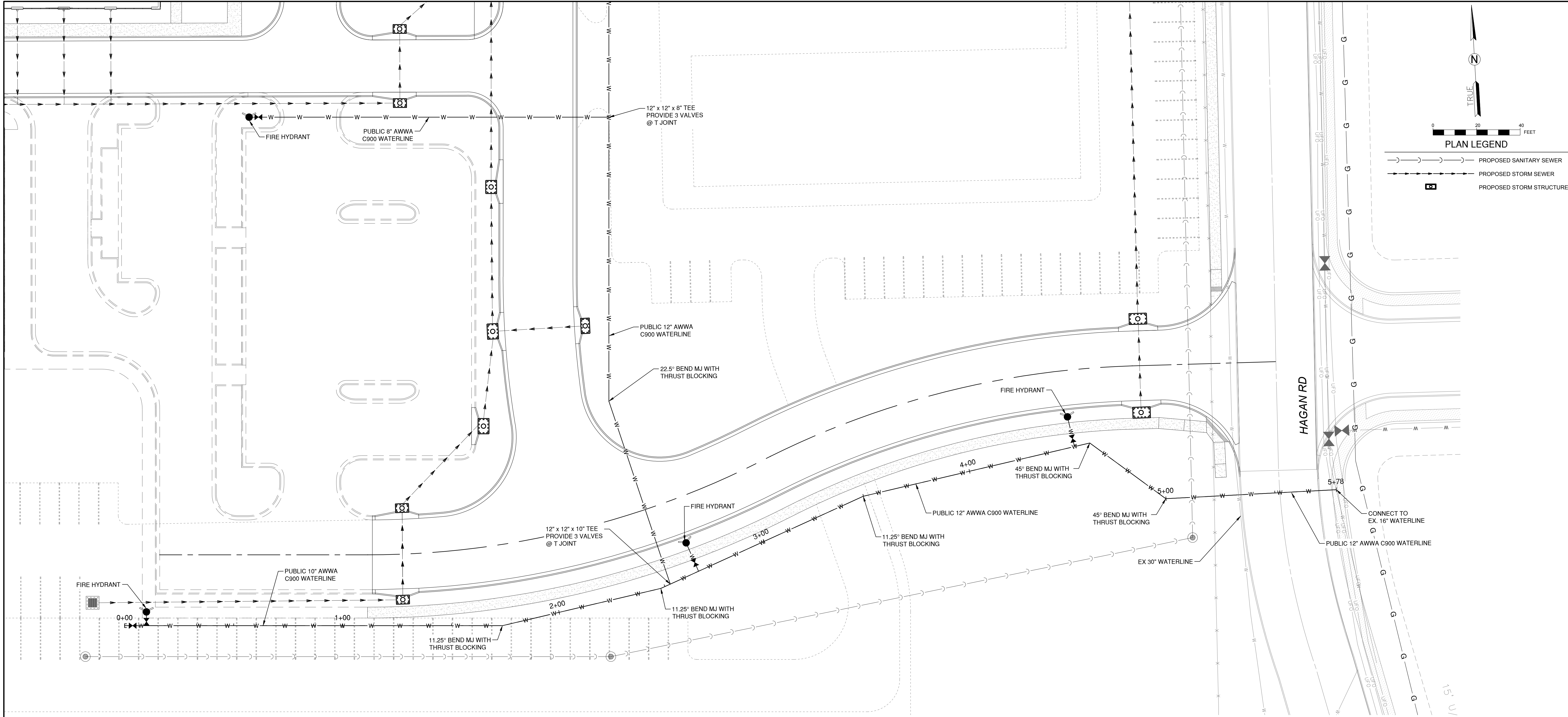
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LEE'S SUMMIT, MO

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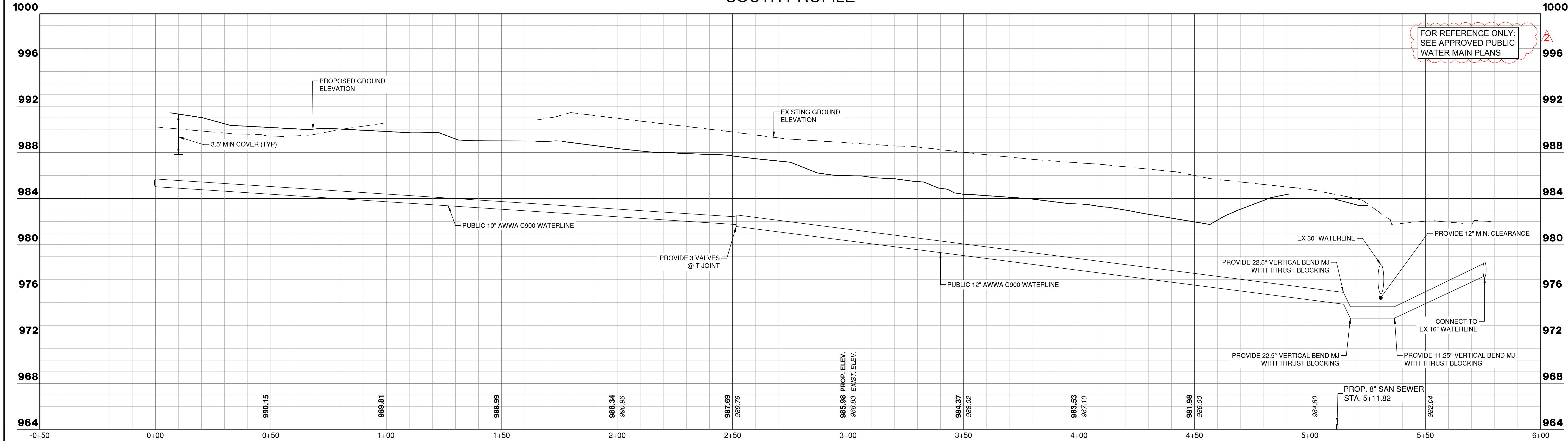
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**SANITARY PLAN &
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C115

SHEET 026 OF 131



SOUTH PROFILE



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KANSAS CITY, MO 64108



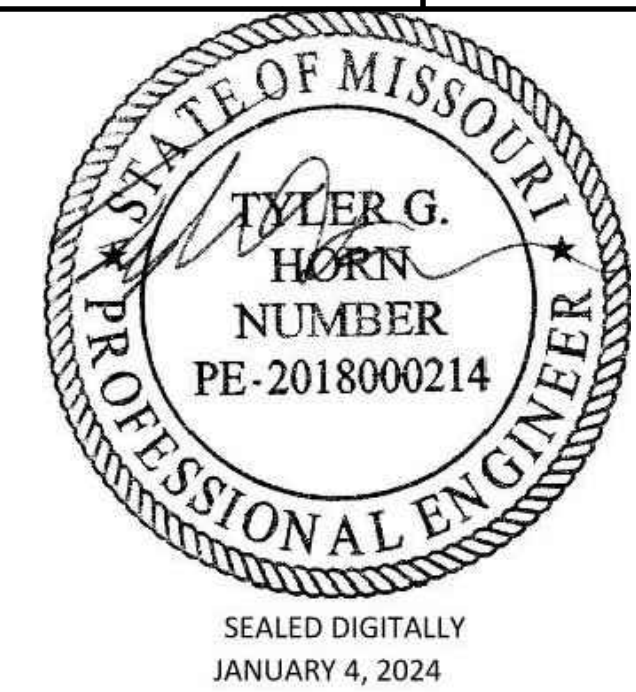
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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

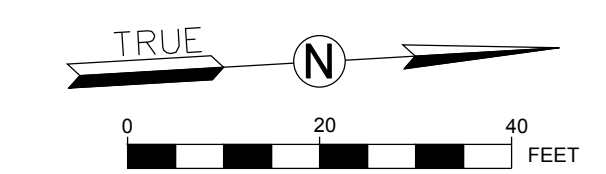
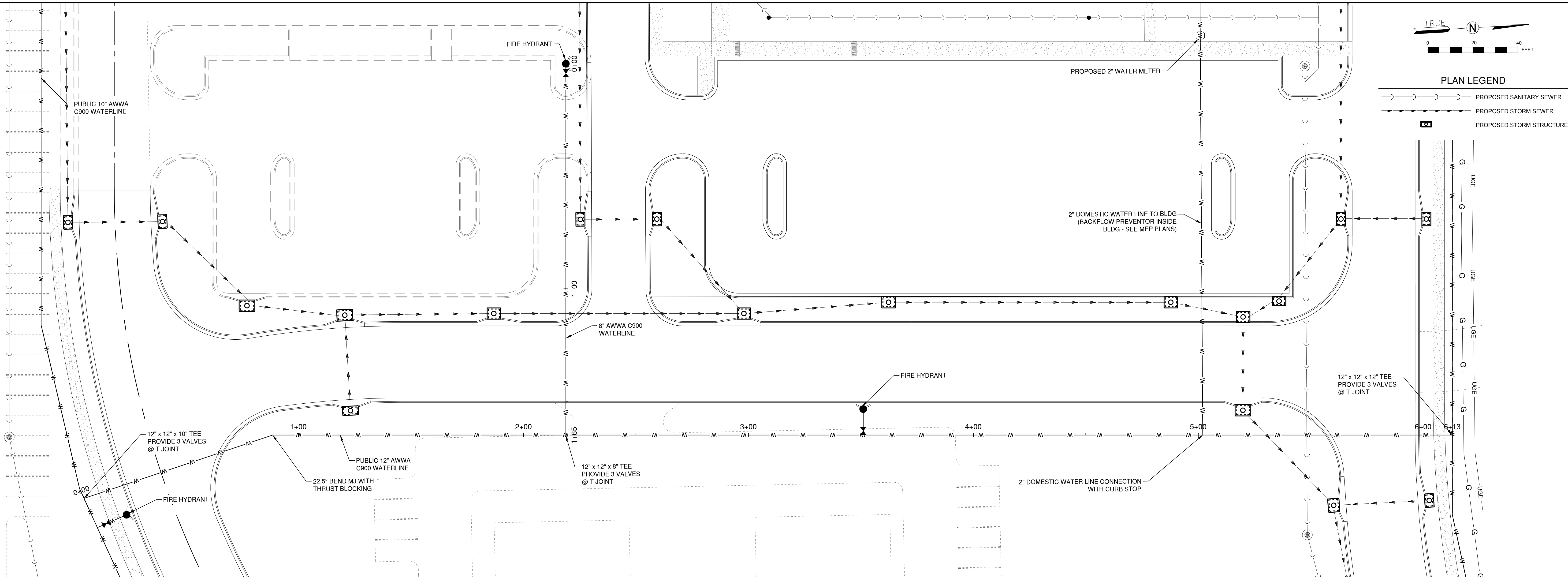
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WATER LINE PLAN &
PROFILE - SHEET 1

C116

SHEET 027 OF 131

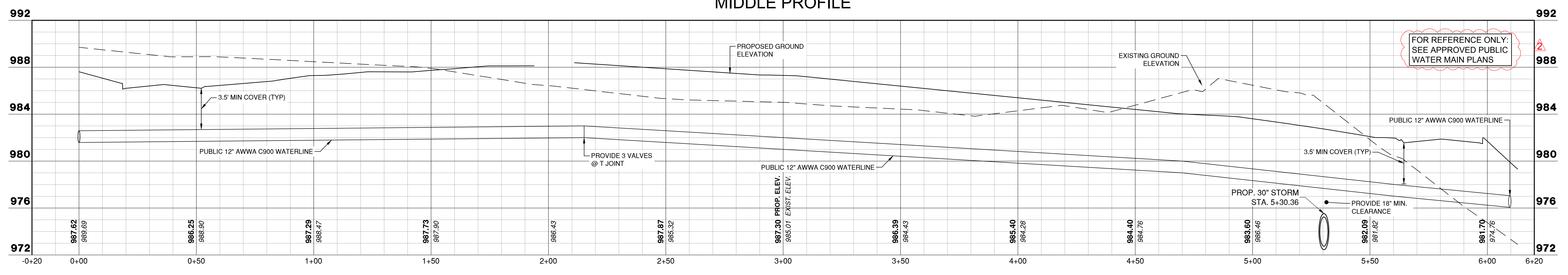
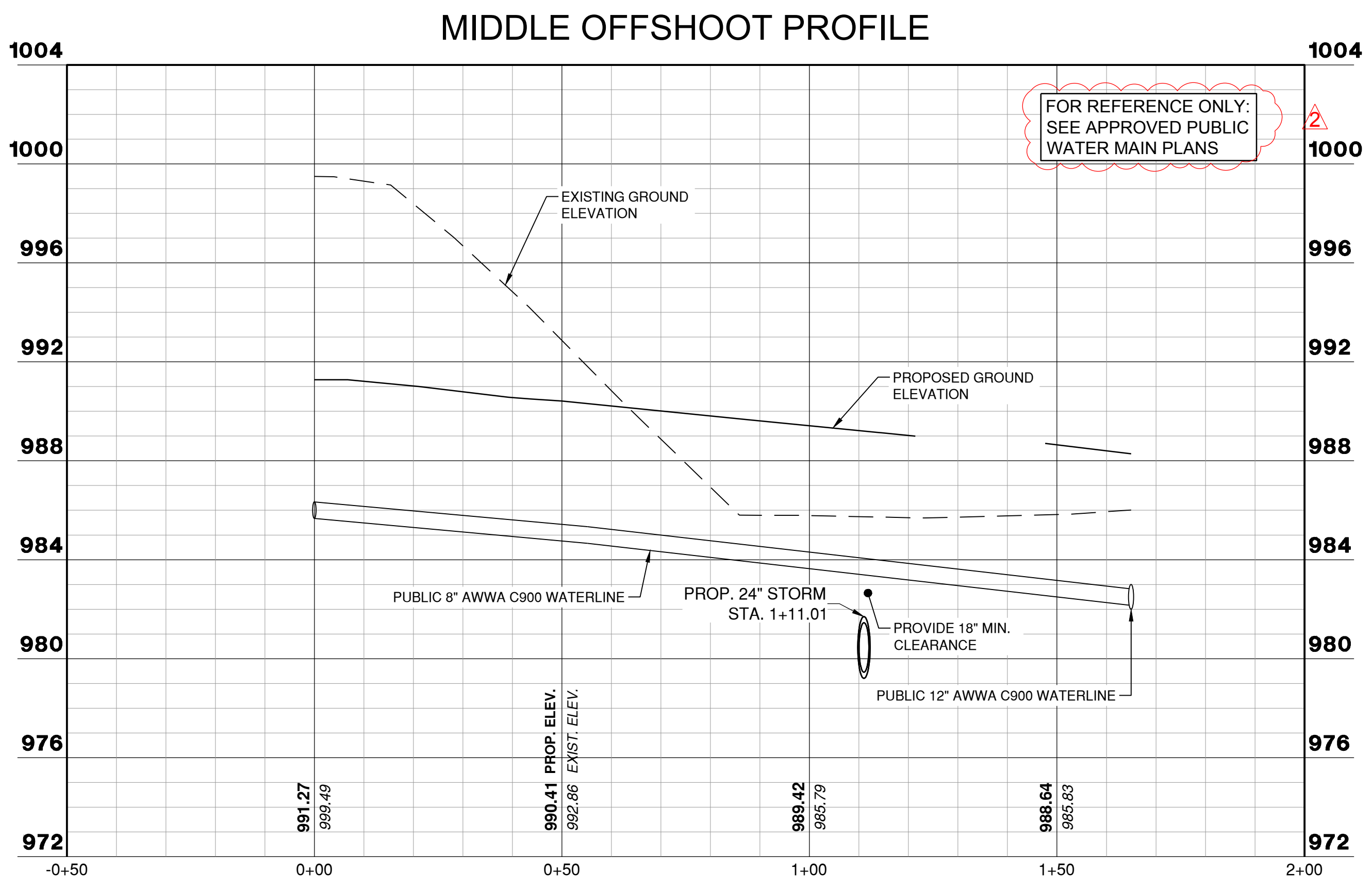


PLAN LEGEND

—○— PROPOSED SANITARY SEWER

--- PROPOSED STORM SEWER

■ PROPOSED STORM STRUCTURE



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KANSAS CITY, MO 64108



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LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

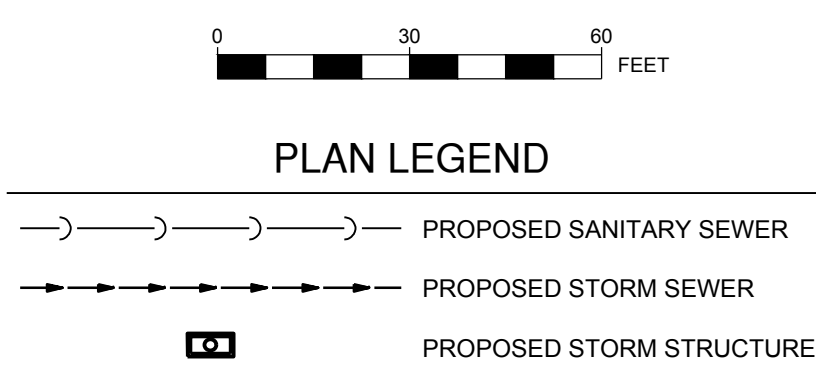
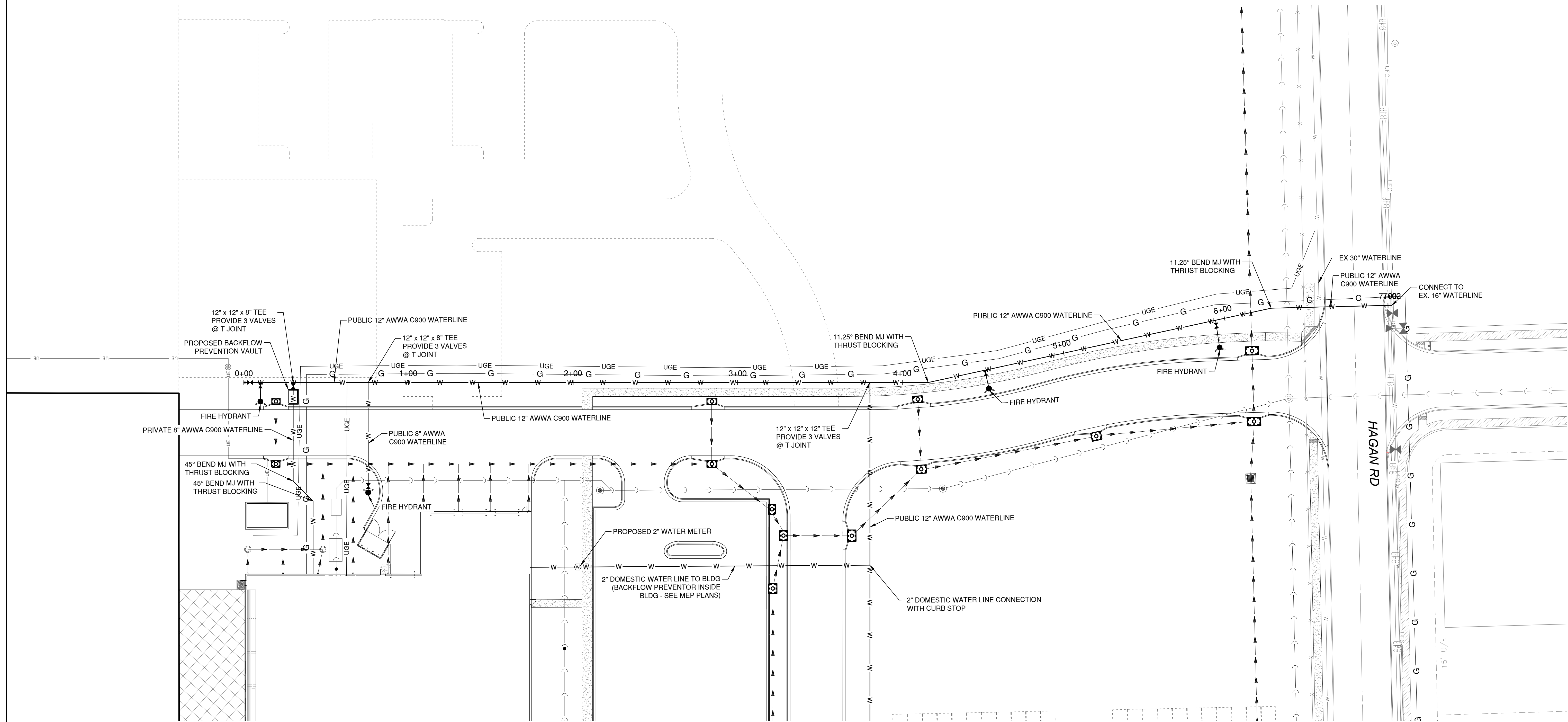
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**WATER LINE PLAN &
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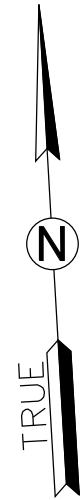
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SHEET 028 OF 131

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1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108

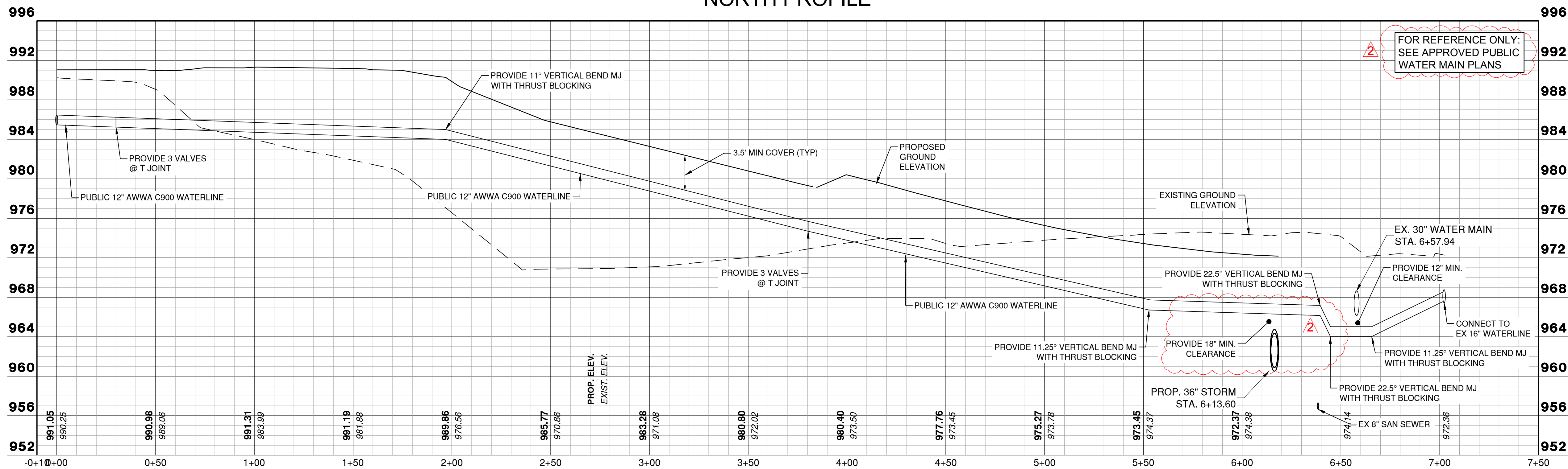


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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

NORTH PROFILE



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

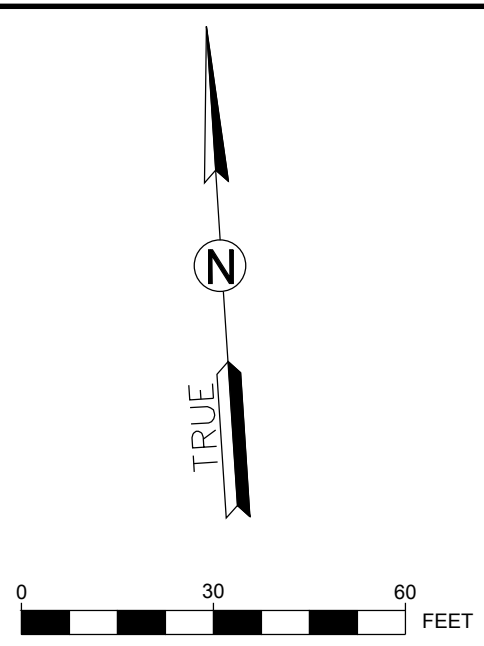
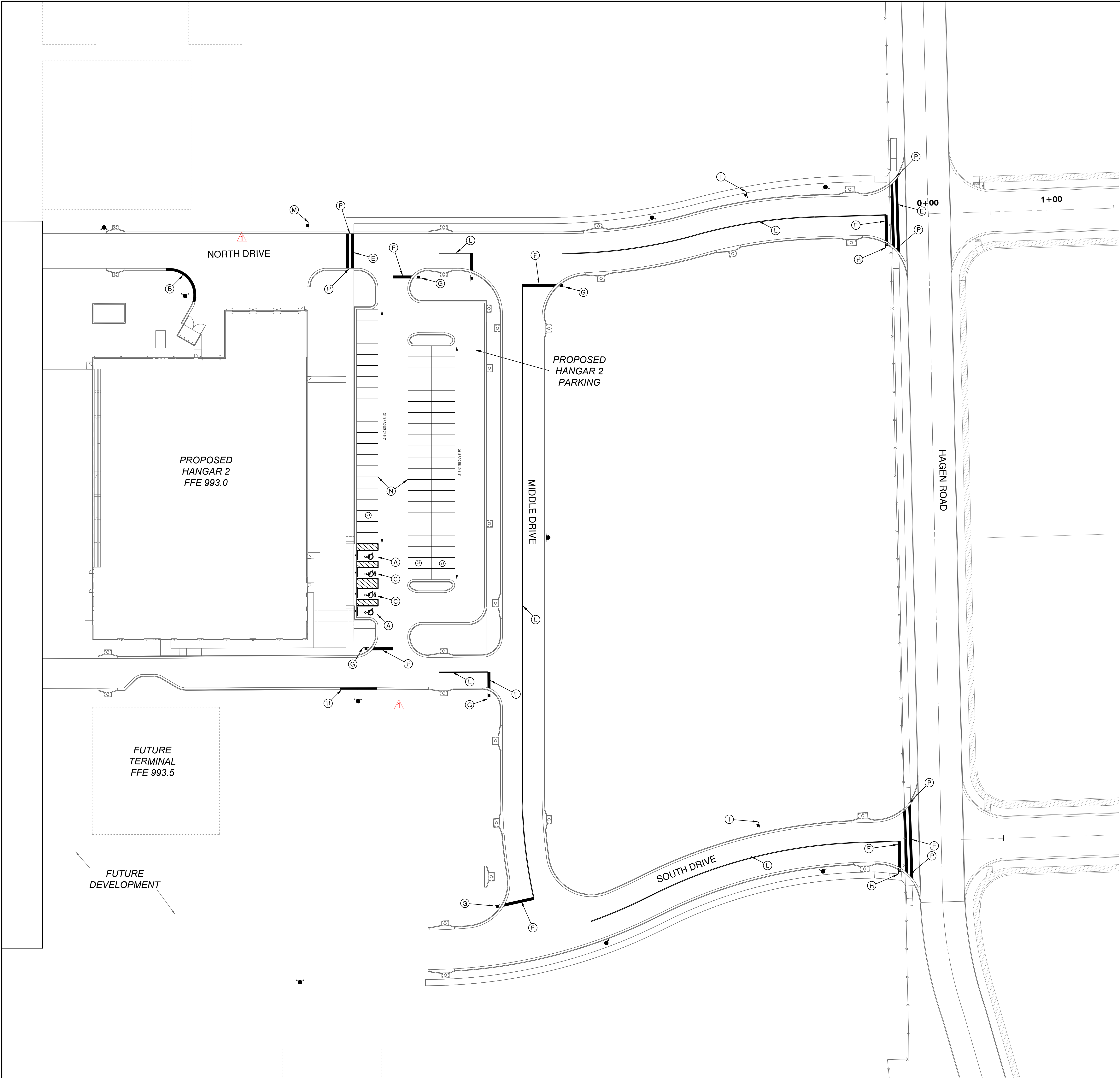
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C118

SHEET 029 OF 131

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PLAN KEYNOTES

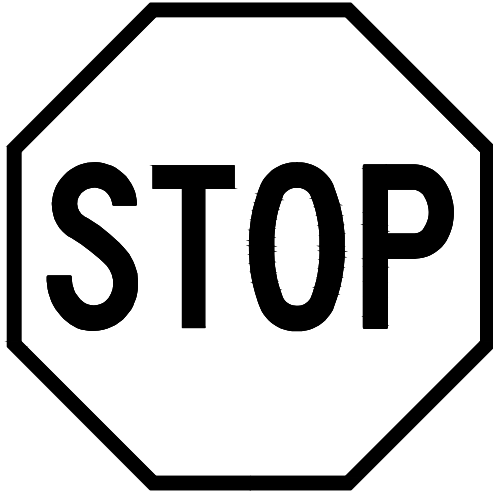
- (A) ADA STALL AND BOLLARD MOUNTED SIGNAGE
- (B) FIRE LANE PAVEMENT MARKING
- (C) ADA VAN STALL AND BOLLARD MOUNTED SIGNAGE
- (D) TRAFFIC FLOW ARROWS
- (E) 24" WHITE CROSSWALK LINES PAINTED PERPENDICULAR TO TRAFFIC 24" APART
- (F) 2' WIDE WHITE STOP BAR MARKING
- (G) STOP SIGN
- (H) STOP SIGN WITH STREET NAME SIGNS
- (I) SPEED LIMIT SIGN
- (J) YIELD SIGN
- (K) CONCRETE WHEEL STOP
- (L) DOUBLE YELLOW CENTERLINE PAVEMENT MARKINGS
- (M) AIRPORT AUTHORIZED PERSONNEL ONLY SIGN
- (N) 4" THICK YELLOW PARKING STALL MARKING
- (O) WHITE YIELD PAVEMENT MARKINGS
- (P) ADA RAMP



R5-1 DO NOT ENTER SIGN
SIZE: 30 x 30



R2-1 SPEED LIMIT SIGN
SIZE: 24 x 30 (SINGLE LANE)
SPEED: 25MPH



R1-1 STOP SIGN
SIZE: 30 x 30



D3-1 STREET NAME SIGN
HEIGHT: 8"
LETTERING: 4"
1" THICK BORDER
GREEN BACKGROUND



R1-2 YIELD SIGN
SIZE: 36 x 36 x 36



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KANSAS CITY, MO 64108



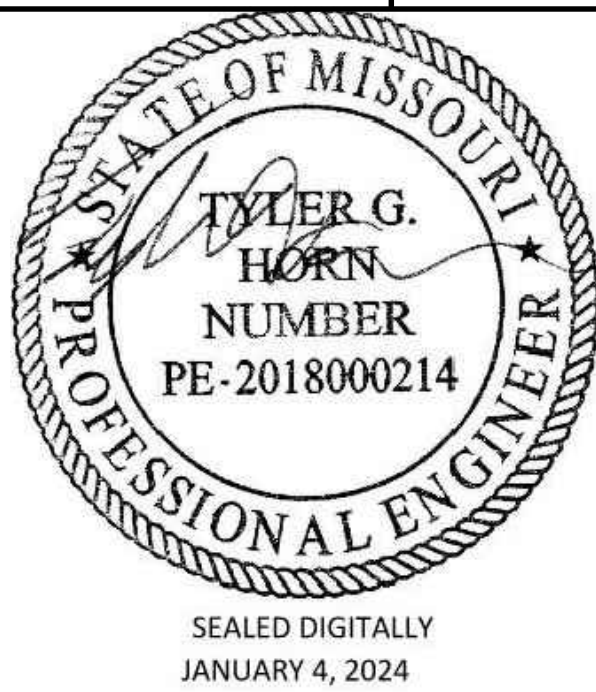
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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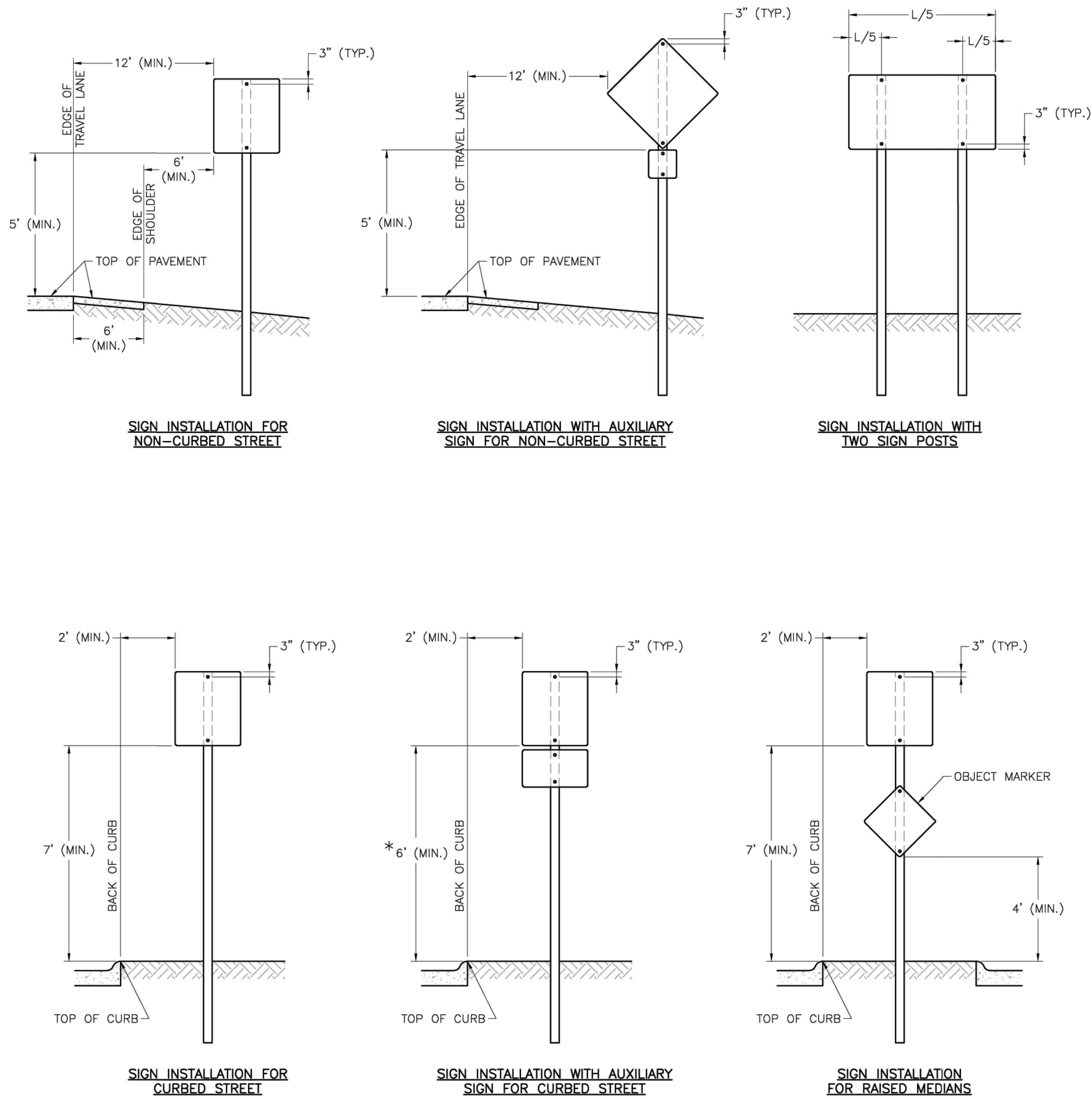
SHEET TITLE

MARKING AND
SIGNAGE

C119

SHEET 030 OF 131

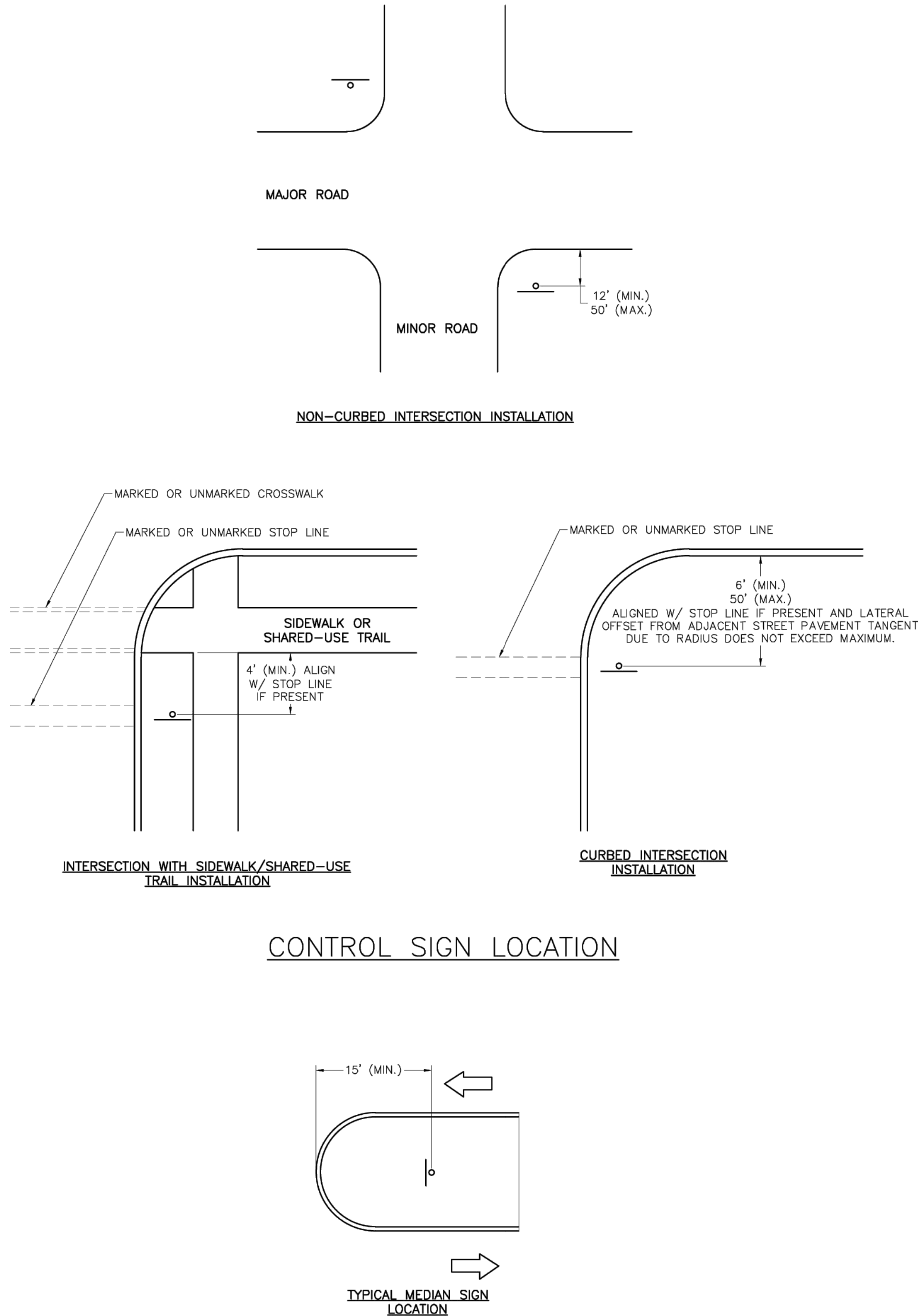
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Date: Wednesday, January 3, 2024 11:24:47



SIGN MOUNTING DETAILS

NOTES:

1. GENERALLY, THE SIGN MOUNTING HEIGHT SHOULD NOT BE MORE THAN 1' GREATER THAN THE MINIMUM MOUNTING HEIGHT.
2. *THE HEIGHT TO THE BOTTOM OF A SIGN WHEN IT IS LOCATED IN A PEDESTRIAN WALKWAY OR EXTENDS INTO A WALKWAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKWAY.



MEDIAN SIGN LOCATION

NOTES:

1. A 4" P.V.C. SLEEVE SHALL BE INSTALLED IN NEW CONCRETE MEDIANS AT EACH LOCATION WHERE A SIGN IS TO BE INSTALLED.
2. FOR EXISTING CONCRETE MEDIANS, A 4" HOLE SHALL BE CORED INTO THE CONCRETE.

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: SIGN MOUNTING DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-1



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	47732472
CAD DWG FILE:	MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY:	WLC
DRAWN BY:	WLC
CHECKED BY:	JRC
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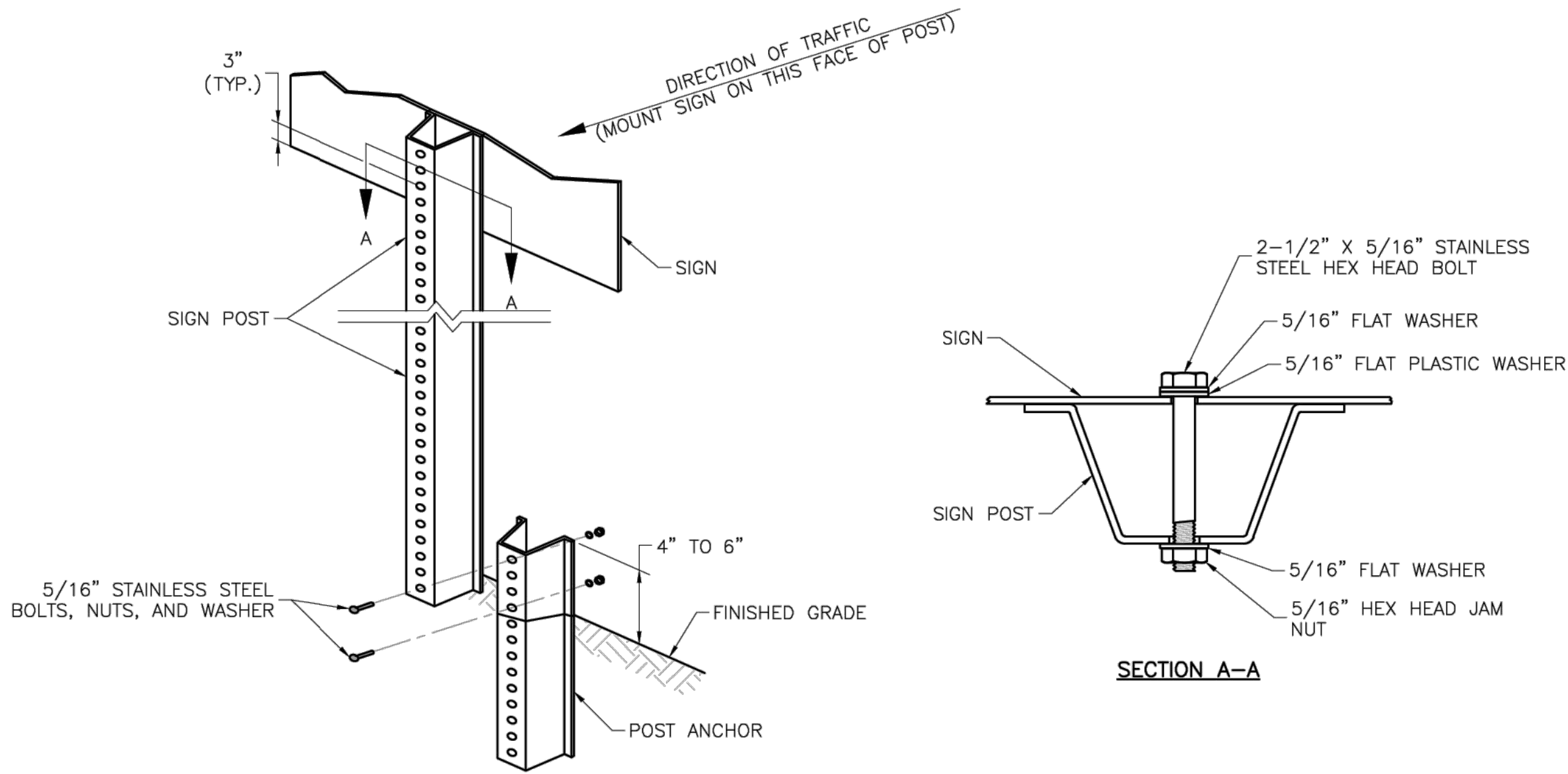
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MARKING AND
SIGNAGE DETAIL -
SHEET 1

C120

SHEET 031 OF 131

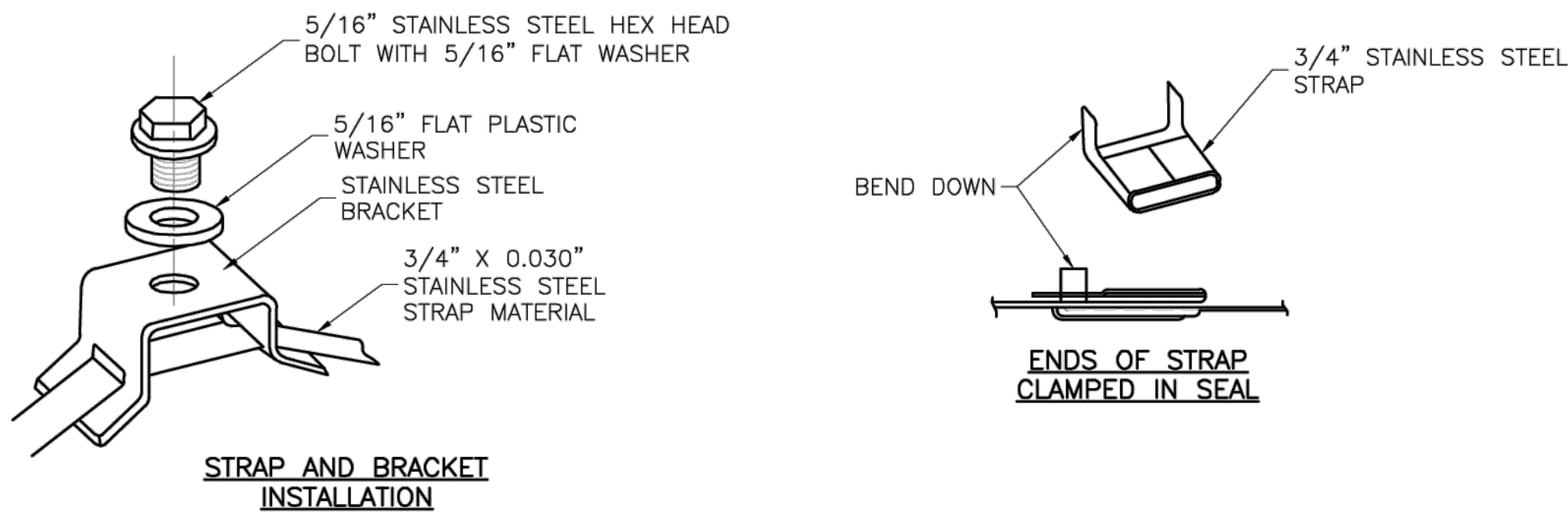
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Date: Wednesday, January 3, 2024 17:24:30



U-STEEL POST DETAILS

NOTES:

1. SPLICE SHALL BE POSITIONED ENTIRELY BETWEEN FINISHED GRADE LINE AND 18" ABOVE FINISHED GRADE LINE. ONLY ONE SPLICE WILL BE ALLOWED PER POST.
2. U-STEEL POST SHALL BE 3 LB./FT., GALVANIZED ACCORDING TO ASTM A123.
3. U-STEEL POST CAN BE USED FOR INSTALLATION OF SIGNS WITH AN AREA OF LESS THAN 2.5 SQUARE FEET.
4. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.



STRAP TYPE SIGN SUPPORT DETAILS

NOTES:

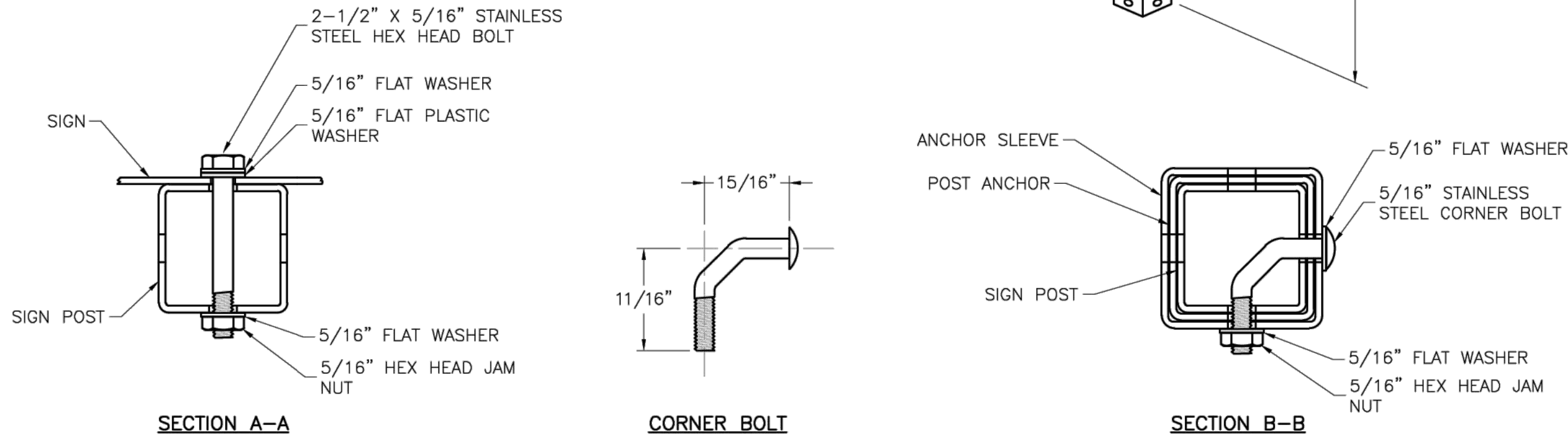
1. SIGNS ON METAL POLES SHALL BE ATTACHED WITH TWO BRACKETS AND STAINLESS STEEL BANDS.
2. HOLES IN SIGN FOR ATTACHMENT TO THE MOUNTING BRACKETS SHALL BE OFFSET A MINIMUM OF 2 INCHES FROM THE EDGE OF THE SIGN.
3. HOLES IN SIGN SHALL BE LOCATED SUCH THAT THE SIGN IS LEVEL.
4. ALL STRAP, BRACKET, AND SEAL MATERIALS SHOULD BE TYPE 201 STAINLESS STEEL.

PERMANENT SIGNING GENERAL NOTES:

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY AND ALL UTILITIES WHEN INSTALLING SIGN POSTS, WHETHER THE UTILITY IS INDICATED ON THE PLANS OR NOT.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT.
4. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL SIGN POSTS TO BE INSTALLED. THE CITY INSPECTOR SHALL INSPECT THE STAKING PRIOR TO INSTALLATION. MINOR RELOCATION TO AVOID CONFLICTS MAY BE ALLOWED WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
5. SIGNS SHOWN TO BE INSTALLED ON THE SIDE OF METAL POLES SHALL BE MOUNTED WITH STAINLESS STEEL STRAPS OR WING BRACKETS AS DETAILED. NO SIGNS ARE TO BE INSTALLED ON WOOD POLES. SEE TRAFFIC SIGNAL STANDARD DRAWINGS FOR THE INSTALLATION OF SIGNS ON MAST ARMS.
6. ALL POST MOUNTED SIGNS SHALL BE INSTALLED WITH BREAKAWAY ANCHORS ACCORDING TO THE STANDARD DRAWINGS.
7. ALL EXISTING SIGNS WILL BE USED IN PLACE DURING CONSTRUCTION AND PROTECTED FROM DAMAGE UNLESS OTHERWISE INDICATED IN THE PLANS. IF THE CONTRACTOR DAMAGES ANY EXISTING SIGN OR POSTS DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE DAMAGED MATERIALS WITH NEW SIGNS OR POSTS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING ANY SIGNS THAT ARE TO BE REINSTALLED ON THE PROJECT. ALL EQUIPMENT SHALL BE REINSTALLED IN GOOD CONDITION.
8. EXISTING PERMANENT SIGNS AND POSTS REMOVED BY THE CONTRACTOR FOR CONSTRUCTION PURPOSES WHICH ARE NOT TO BE REINSTALLED SHALL BE DELIVERED TO THE CITY'S PUBLIC WORKS MAINTENANCE FACILITY (1971 SE HAMBLÉN ROAD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EQUIPMENT IN GOOD CONDITION AND IS FULLY RESPONSIBLE FOR THE EQUIPMENT UNTIL IT IS DELIVERED.
9. ALL STOP, YIELD, OR STREET NAME SIGNS SHALL BE MAINTAINED IN A CONSPICUOUS LOCATION FOR THE DRIVING PUBLIC. ALL STOP AND YIELD SIGNS REMOVED FOR CONSTRUCTION PURPOSES CAN BE TEMPORARILY ERECTED IN REFLECTORIZED DRUMS (NO LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE) UNTIL THEY CAN BE REINSTALLED. ANY TEMPORARY STOP OR YIELD SIGN INSTALLATION TO BE LEFT IN PLACE OVERNIGHT WILL REQUIRE PRIOR APPROVAL FROM THE CITY INSPECTOR.

SQUARE STEEL POST INSTALLATION SEQUENCE:

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH A SLEDGE OR POWER EQUIPMENT.
2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVE INTO THE GROUND TOGETHER WITH THE SIGN POST ANCHOR.
3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.



SQUARE STEEL POST DETAILS

NOTES:

1. SQUARE STEEL SIGN POSTS AND BREAK-AWAY ANCHOR SHALL CONSIST OF THE FOLLOWING MATERIALS:
SIGN POST - 14 GA. 2" X 2" SQUARE STEEL POST
POST ANCHOR - 12 GA. 2 1/4" X 2 1/4" X 36" SQUARE STEEL POST
ANCHOR SLEEVE - 12 GA. 2 1/2" X 2 1/2" X 18" SQUARE STEEL POST
2. 14 GA. POSTS MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. IN ALL INSTALLATIONS THE FIRST HOLE ABOVE THE FINISHED GRADE LINE ON THE SIGN POST, ANCHOR, AND ANCHOR SLEEVE MUST BE IN LINE FOR THE INSERTION OF THE CORNER BOLT.
4. THE MAXIMUM AREA FOR ONE SIGN POST IS 9.0 SQUARE FEET. A SIGN OR COMBINATION OF SIGNS WITH AN AREA GREATER THAN 9.0 SQUARE FEET WILL REQUIRE TWO POSTS. ALSO, SIGNS WITH A WIDTH GREATER THAN OR EQUAL TO 48" (NOT INCLUDING 36" X 36" DIAMOND SHAPED SIGNS) WILL REQUIRE TWO POSTS.

LS LEE'S SUMMIT
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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

POST DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-2



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: JRC
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SHEET TITLE

MARKING AND
SIGNAGE DETAIL -
SHEET 2

C121

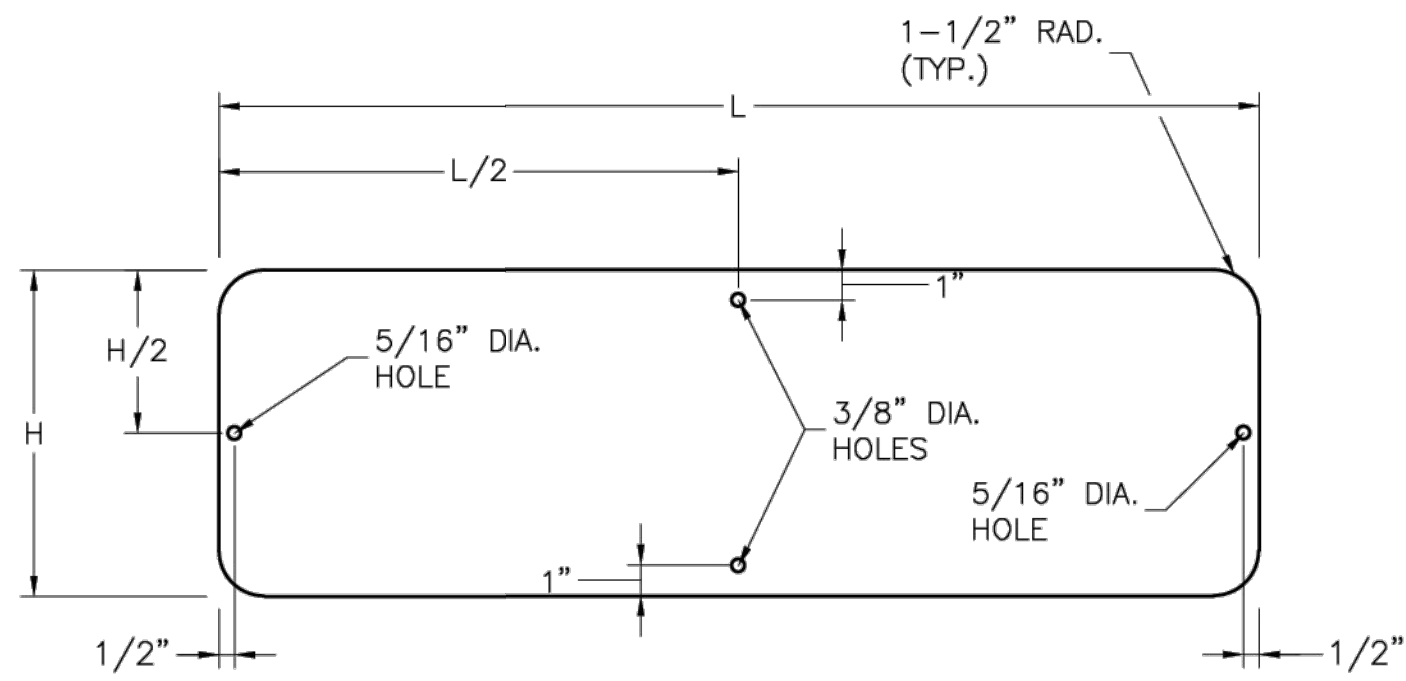
SHEET 032 OF 131

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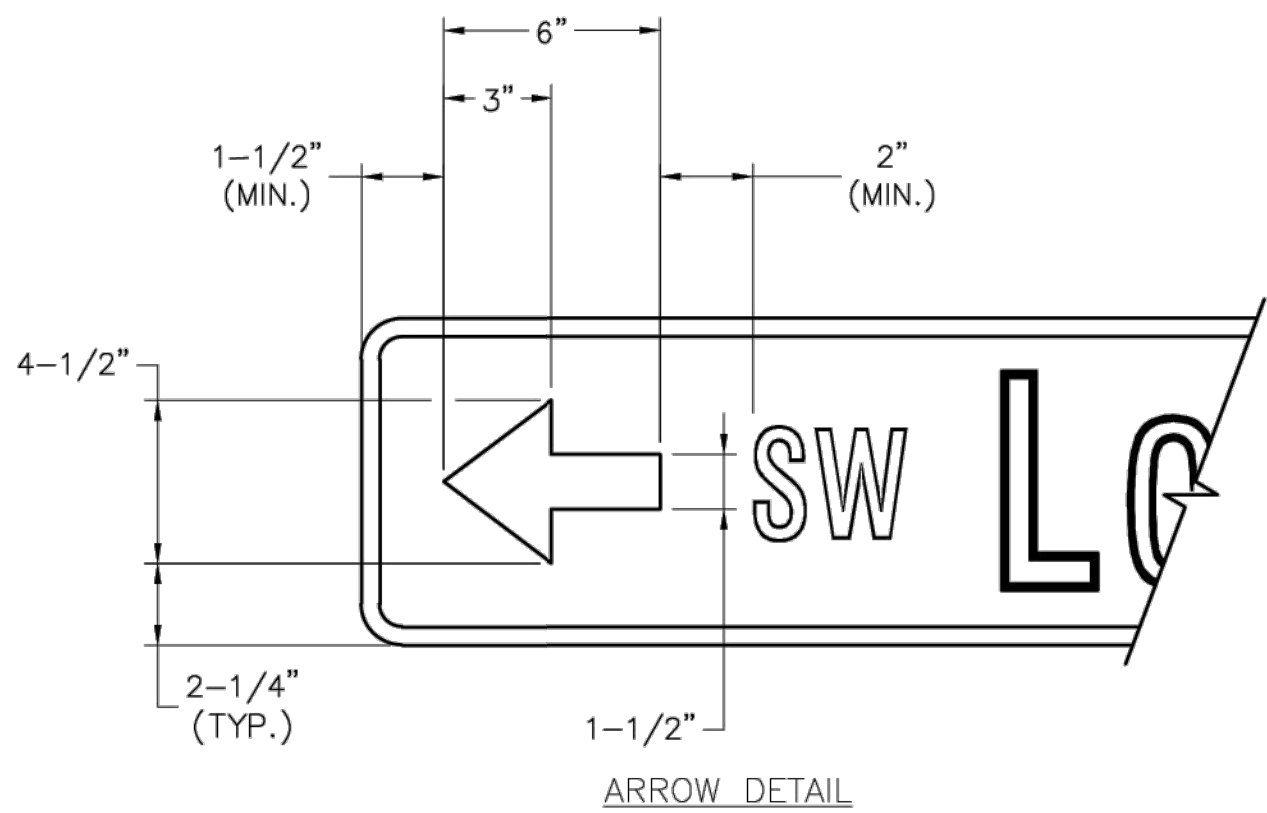
STANDARD ABBREVIATION LISTS

NAMED STREETS	
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
COURT	Ct
CROSSING	Xing
DRIVE	Dr
HIGHWAY	Hwy
LANE	Ln
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Trl
WAY	Way

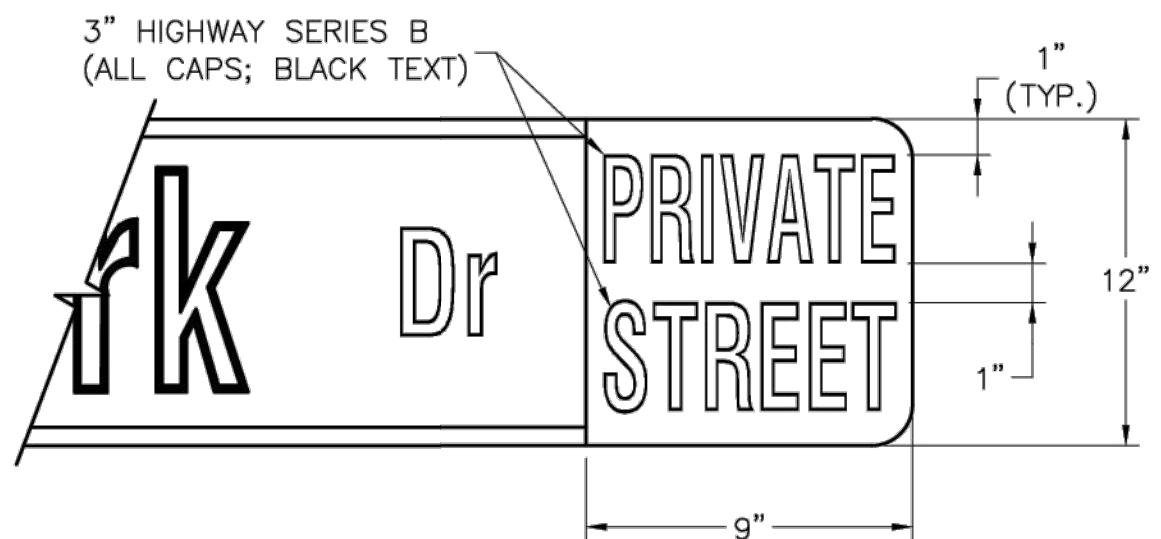
NUMBERED STREETS	
FIRST	ST
SECOND	ND
THIRD	RD
FOURTH TO TENTH	TH



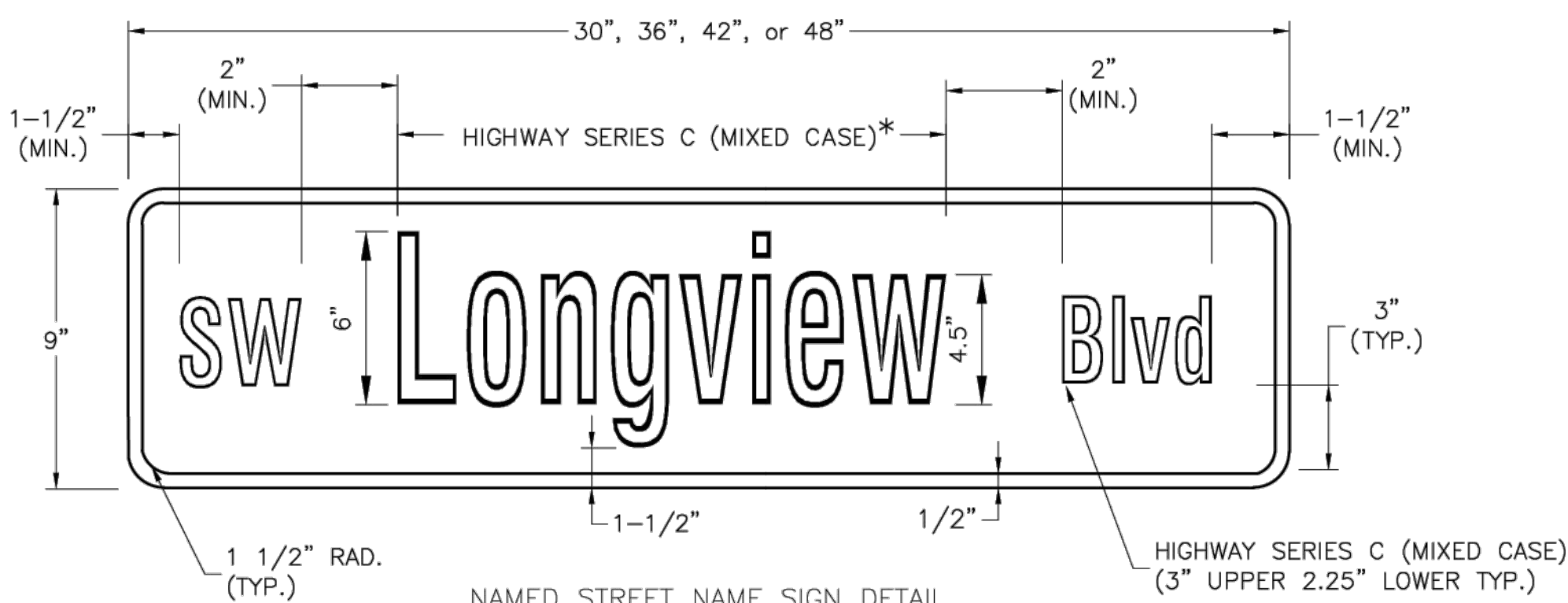
STREET NAME SIGN BLANK DETAILS
FOR MOUNTING ON SQUARE STEEL POSTS



ARROW DETAIL



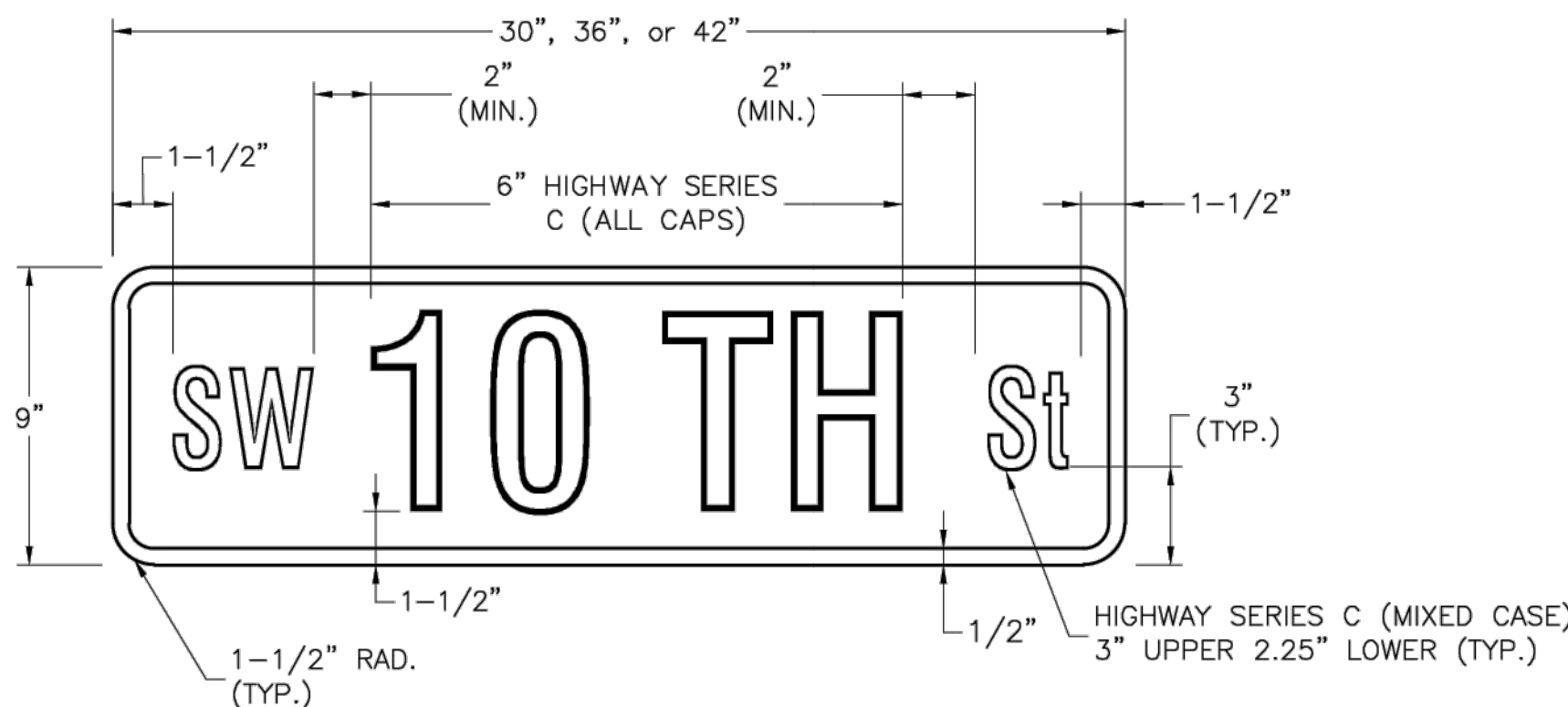
PRIVATE STREET TAG DETAIL



NAMED STREET NAME SIGN DETAIL
* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

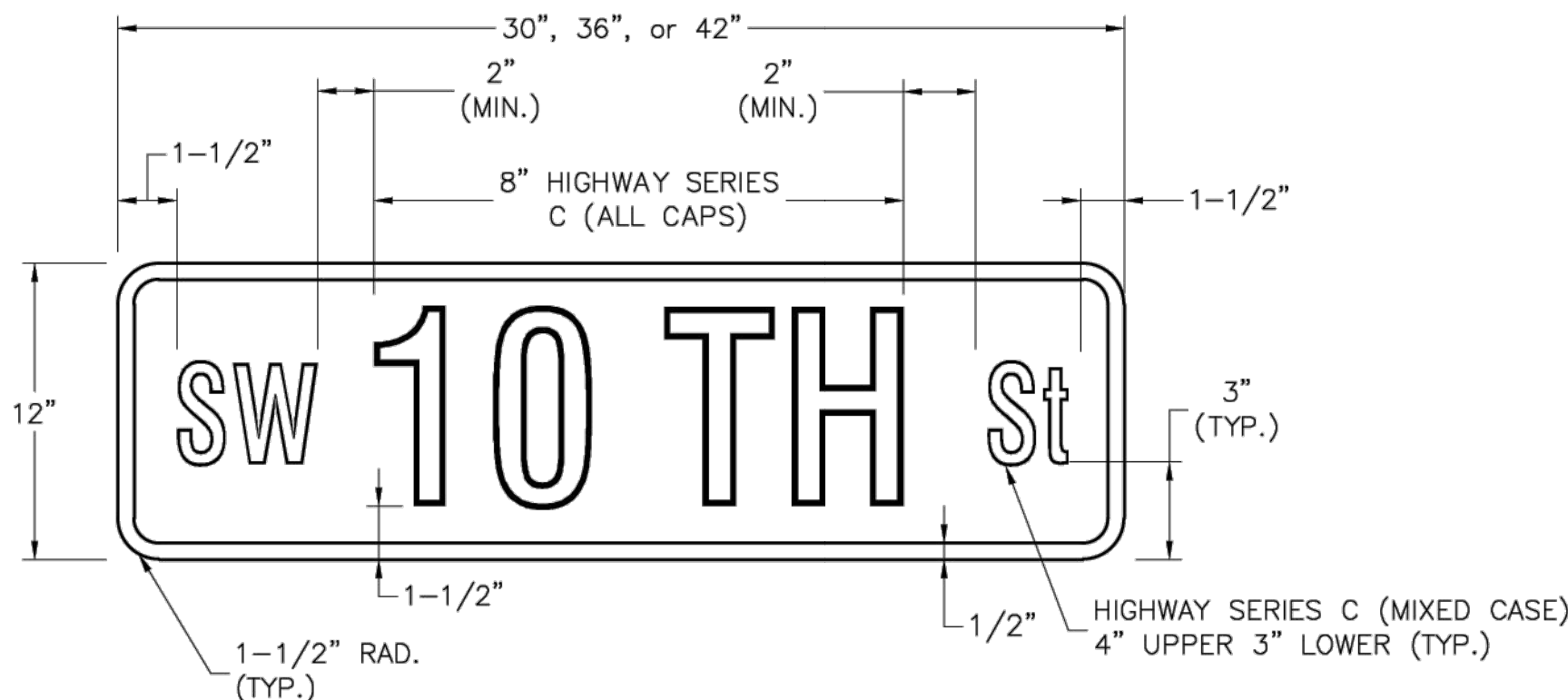
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



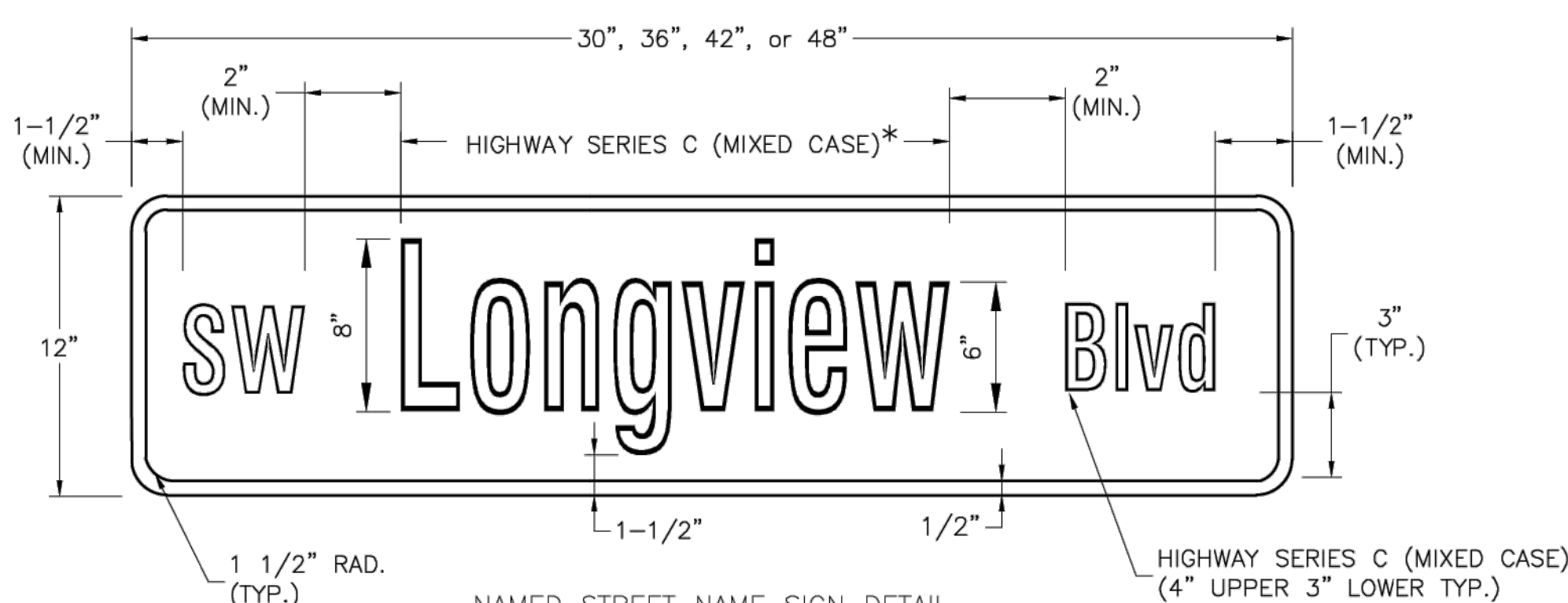
NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH

NOTES:

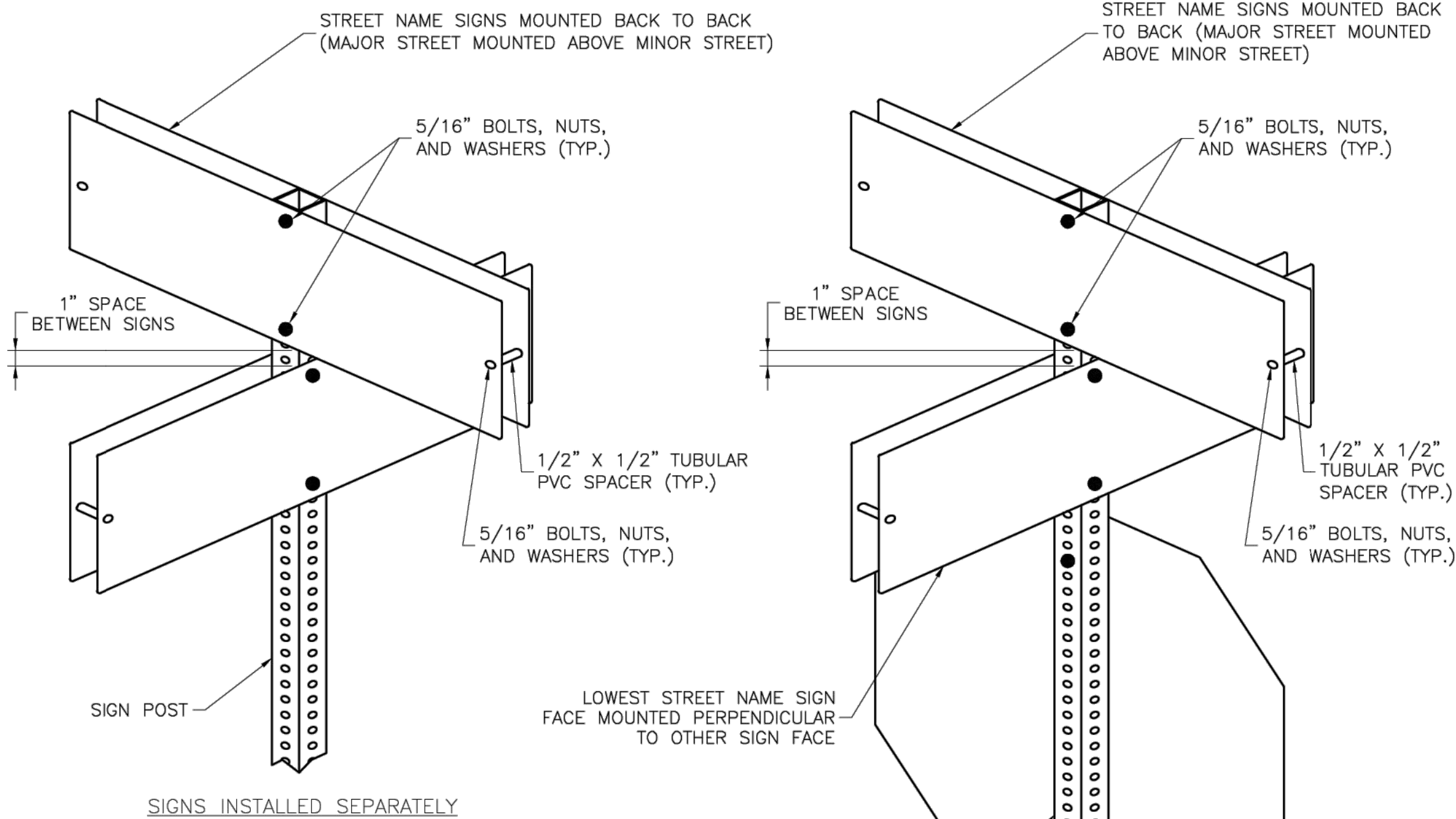
- FOR ALL STREET NAME SIGNS, THE LEGEND SHALL BE WHITE AND THE BACKGROUND SHALL BE GREEN.
- ARROWS SHALL BE ADDED TO STREET NAME SIGNS WHERE THE NAME OF A STREET CHANGES AT AN INTERSECTION. STREET NAME SIGNS WITH ARROWS ARE TO BE INSTALLED ON EACH SIDE OF THE INTERSECTION TO INDICATE THE CHANGE IN NAMES. ARROWS SHALL BE WHITE.
- THE "PRIVATE STREET" TAG SHOULD BE ADDED TO THE END OF STREET NAME SIGNS TO INDICATE WHERE A STREET THAT IS OUTSIDE THE RIGHT-OF-WAY INTERSECTS A PUBLIC STREET. THE BACKGROUND FOR THE "PRIVATE STREET" TAG SHALL BE YELLOW.
- MULTI-LANE IS DEFINED AS HAVING 2 LANES OR MORE IN EACH DIRECTION, EXCLUDING TURN LANES.
- OVERHEAD SIGN DETAILS MAY BE FOUND ON THE SIGNAL HEAD MOUNTING DETAIL.



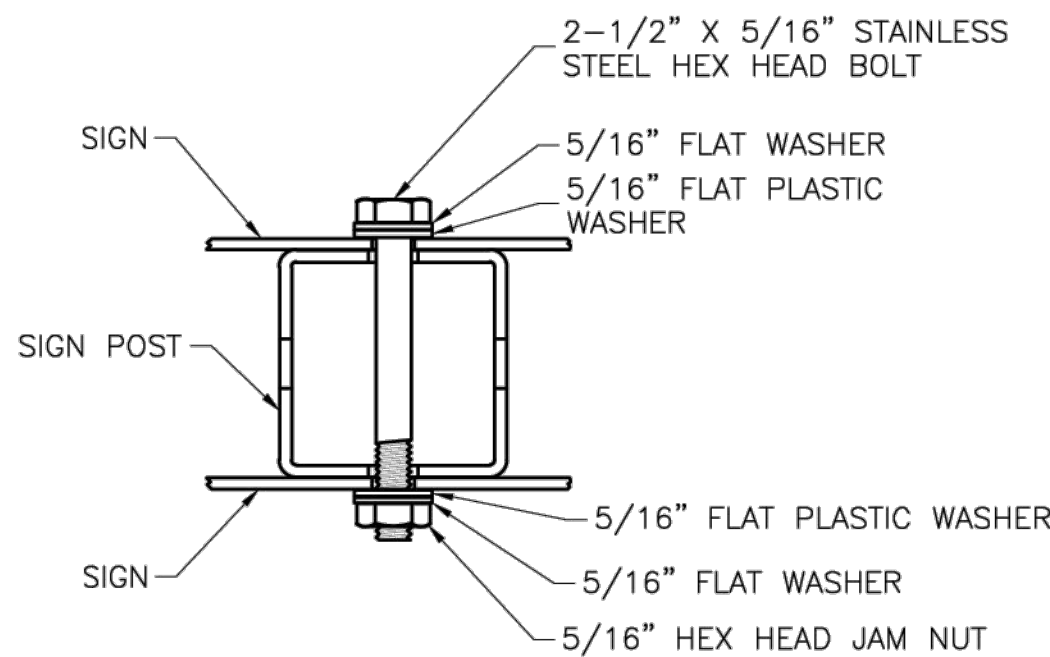
NAMED STREET NAME SIGN DETAIL
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STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH



SIGNS INSTALLED SEPARATELY



PLAN VIEW

SQUARE STEEL POST MOUNTING DETAILS

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

STREET NAME SIGN DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-3



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



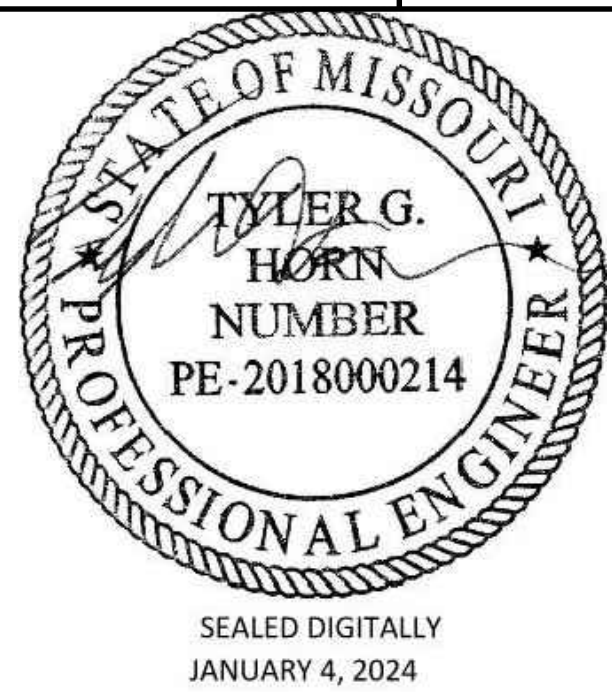
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK | DATE | DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
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DRAWN BY: WLC
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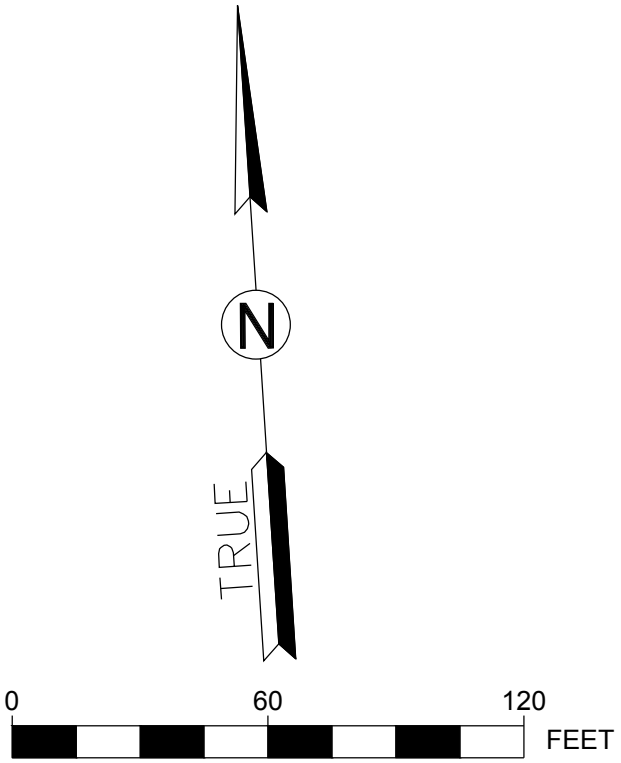
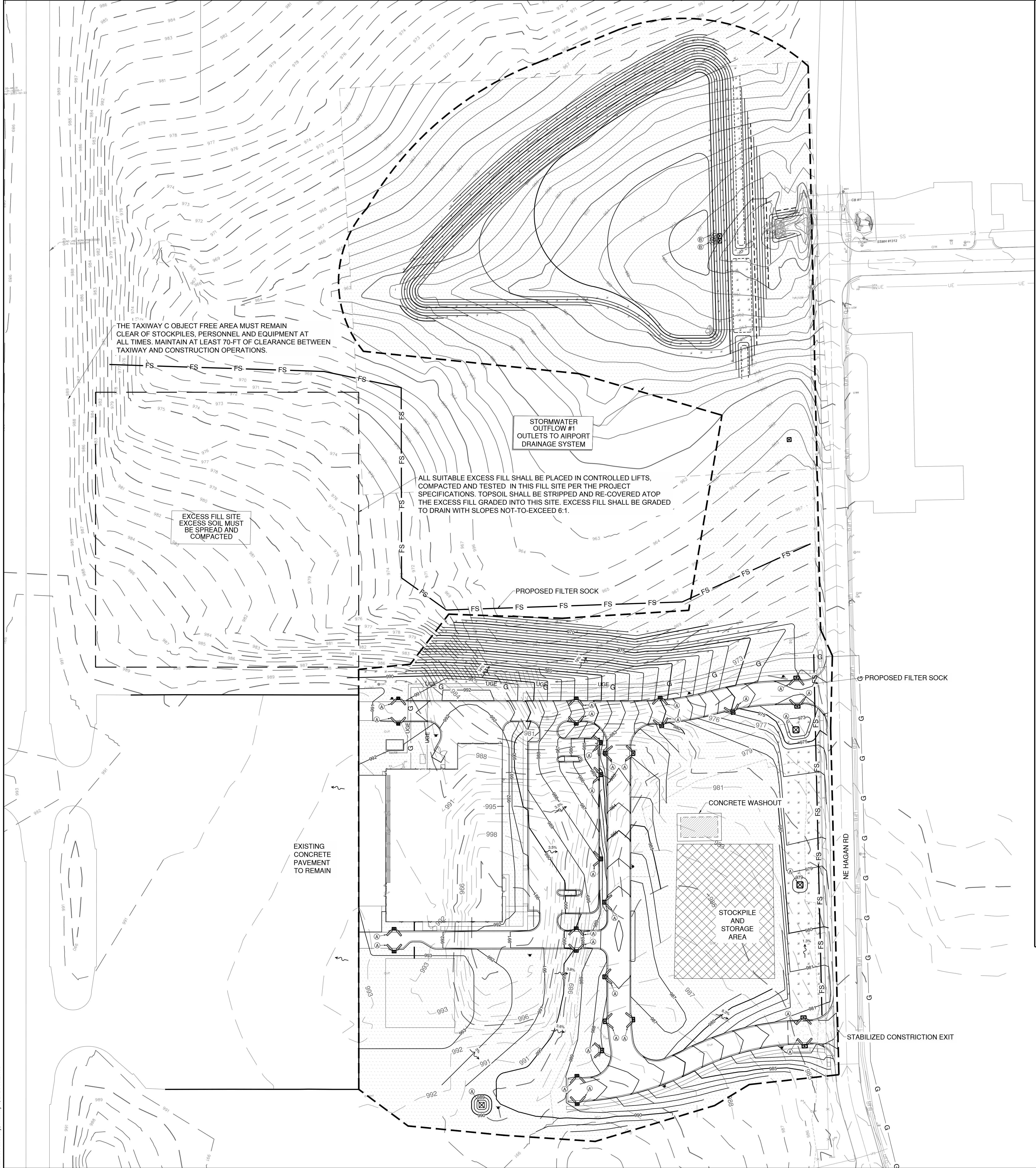
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MARKING AND
SIGNAGE DETAIL -
SHEET 3

C122

SHEET 033 OF 131

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Date: Wednesday, January 3, 2024 17:23:36



LEGEND

- AREA TO RECEIVE SEEDING / FERTILIZING PER SPECIFICATIONS AND NORTH AMERICAN GREEN EriNet SC150 EROSION CONTROL BLANKET SEE EROSION CONTROL DETAILS
- AREA TO BE SEED
- RIP-RAP AT END SECTION SEE EROSION CONTROL DETAILS
- STABILIZED CONSTRUCTION ENTRANCE (COORDINATE LOCATION WITH OWNER) SEE EROSION CONTROL DETAILS
- STOCKPILE AND STORAGE AREA
- LIMITS OF DISTURBANCE
- EXISTING CONTOUR
- PROPOSED CONTOURS
- PROPOSED FILTER SOCK
- FLOW ARROW
- INLET PROTECTION
- BASIN OUTFALL PROTECTION
- TEMPORARY CONCRETE WASHOUT AS REQUIRED FOR PCC CONSTRUCTION

SEQUENCE OF CONSTRUCTION:

- CONTRACTOR MUST INSTALL PERIMETER FILTER SOCK CONTROLS PRIOR TO GRADING OPERATIONS.
- WHEN NEW INLETS ARE INSTALLED, CONTRACTOR TO PUT IN PLACE INLET PROTECTION ON NEW INLETS AS SOON AS POSSIBLE AS INDICATED ON THE PLANS.
- AFTER GRADING OF DITCHES, DITCH CHECKS TO BE PUT IT PLACE AS SOON AS POSSIBLE.
- ALL INLET PROTECTION, SILT SOCKS, AND DITCH CHECKS TO REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT CONSTRUCTION AS REQUIRED UNTIL FULL VEGETATION IS ESTABLISHED. CONTRACTOR TO USE SEEDING AND EROSION CONTROL BLANKETS ACCORDING TO REQUIREMENTS OF THIS SHEET AND LANDSCAPE PLANS.

KEYNOTE

- (A) INLET PROTECTION
- (B) BASIN OUTFALL PROTECTION

ACREAGE SUMMARY

DISTURBED AREA = 13.71 AC
IMPERVIOUS AREA = 5.17 AC
PERVIOUS AREA = 8.54 AC



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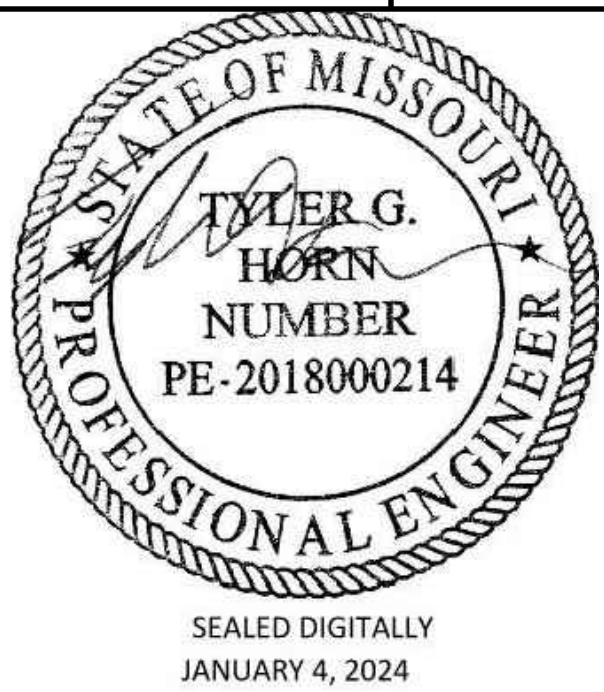
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

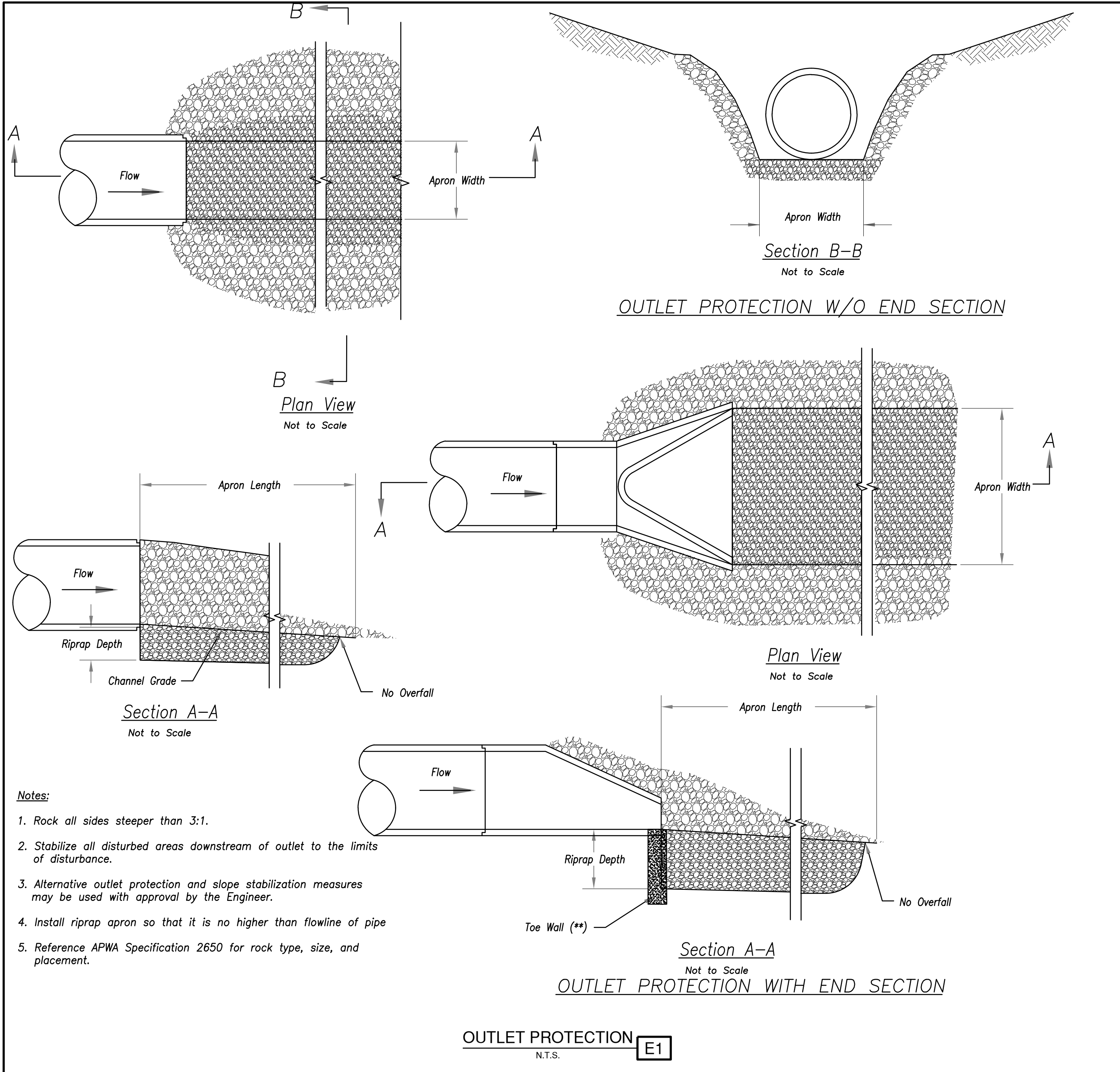
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CAD DWG FILE:	EROSION CONTROL PLAN-PHASE 2	
DESIGNED BY:	WLC	
DRAWN BY:	WLC	
CHECKED BY:	JRC	
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EROSION CONTROL
PLAN-PHASE 2

C124

SHEET 035 OF 131

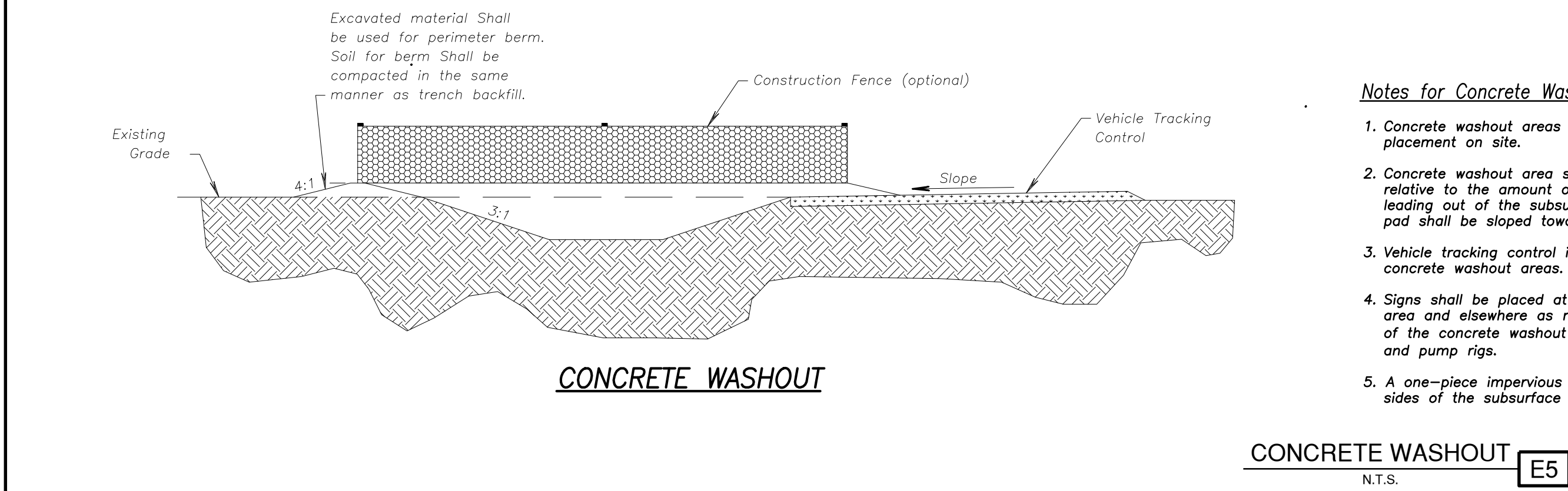
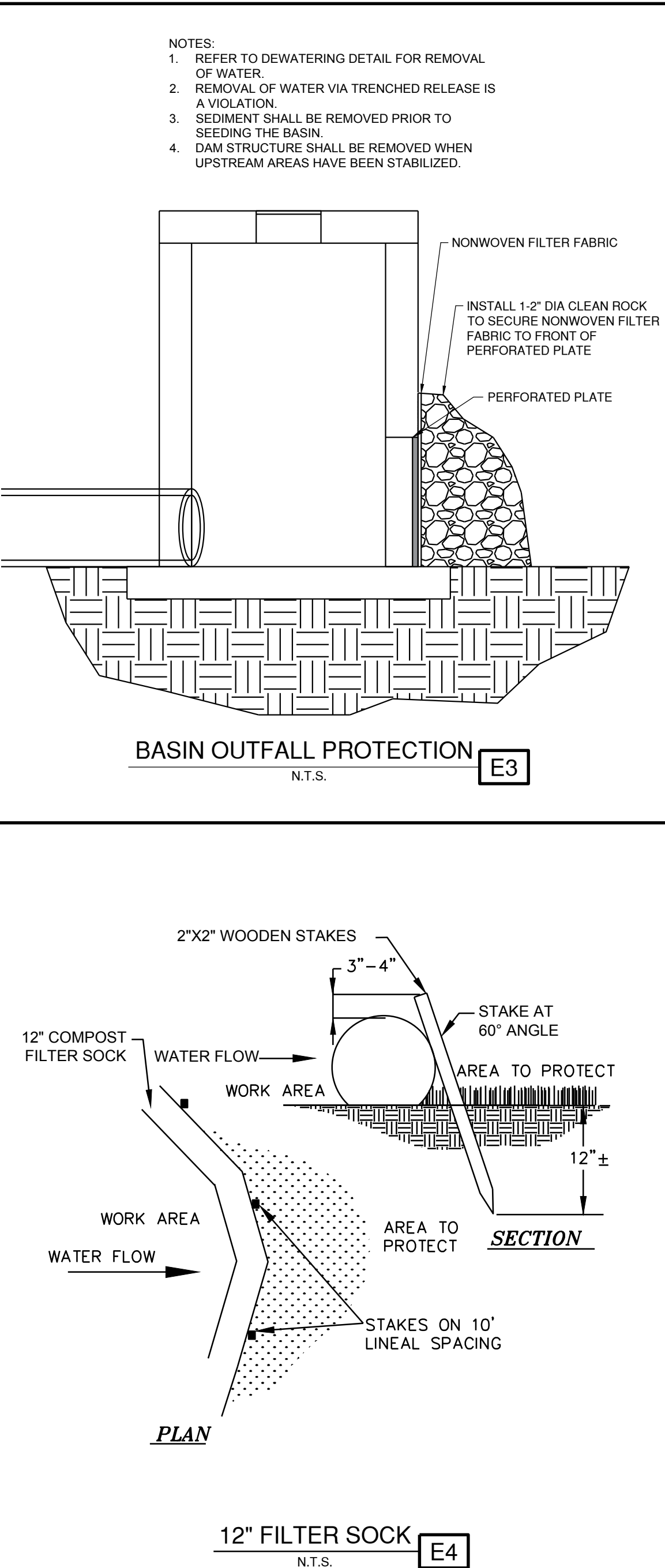
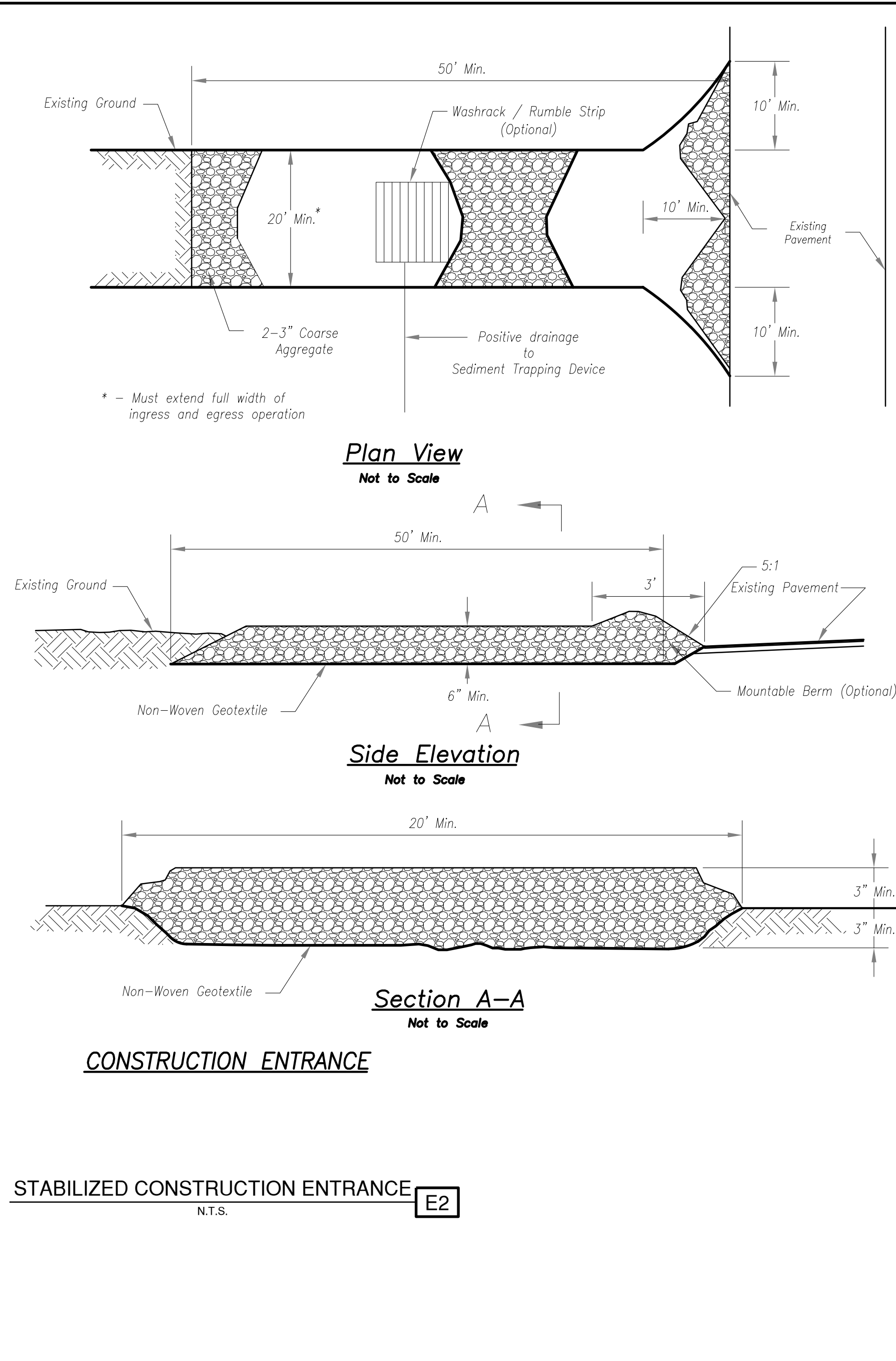


Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

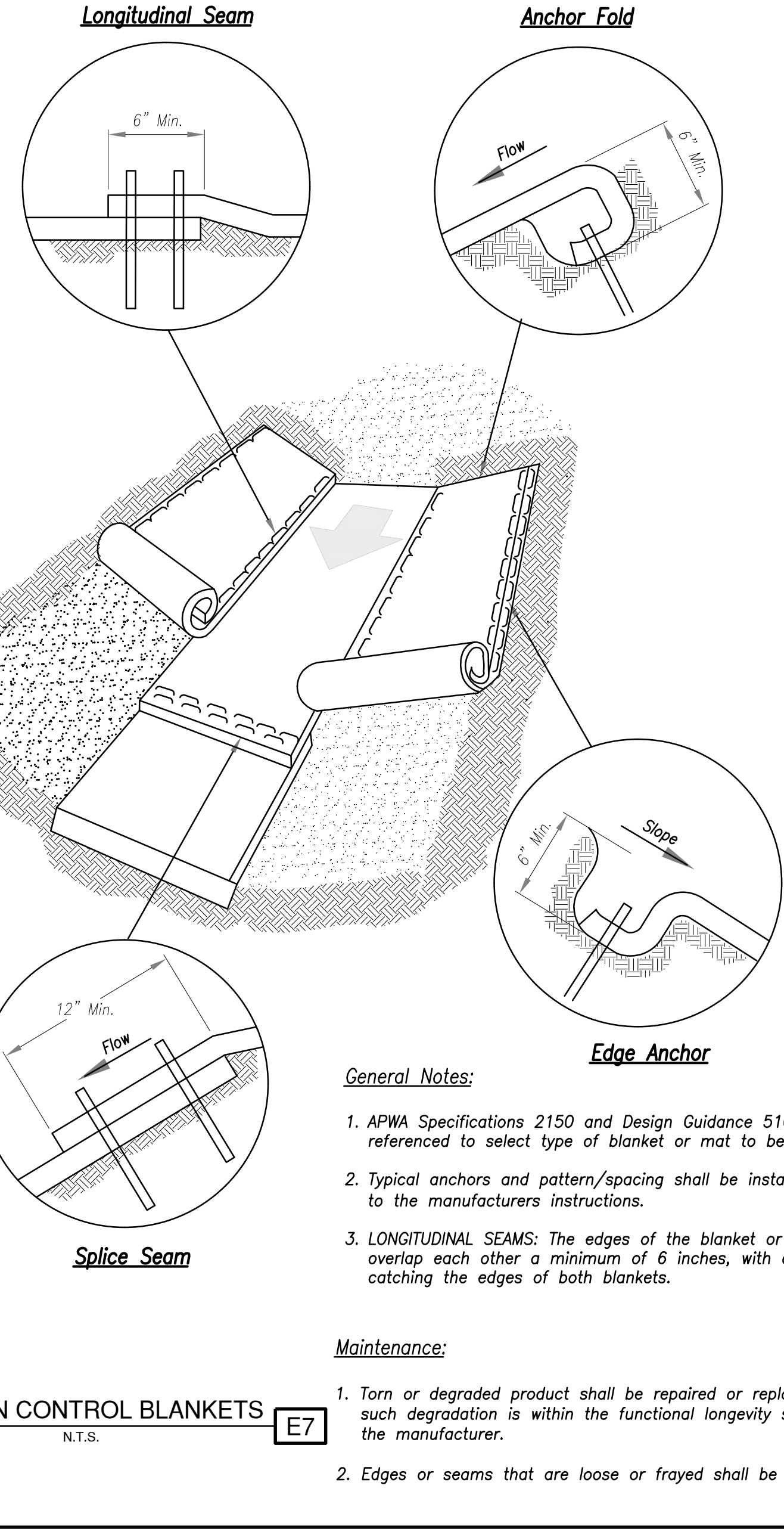
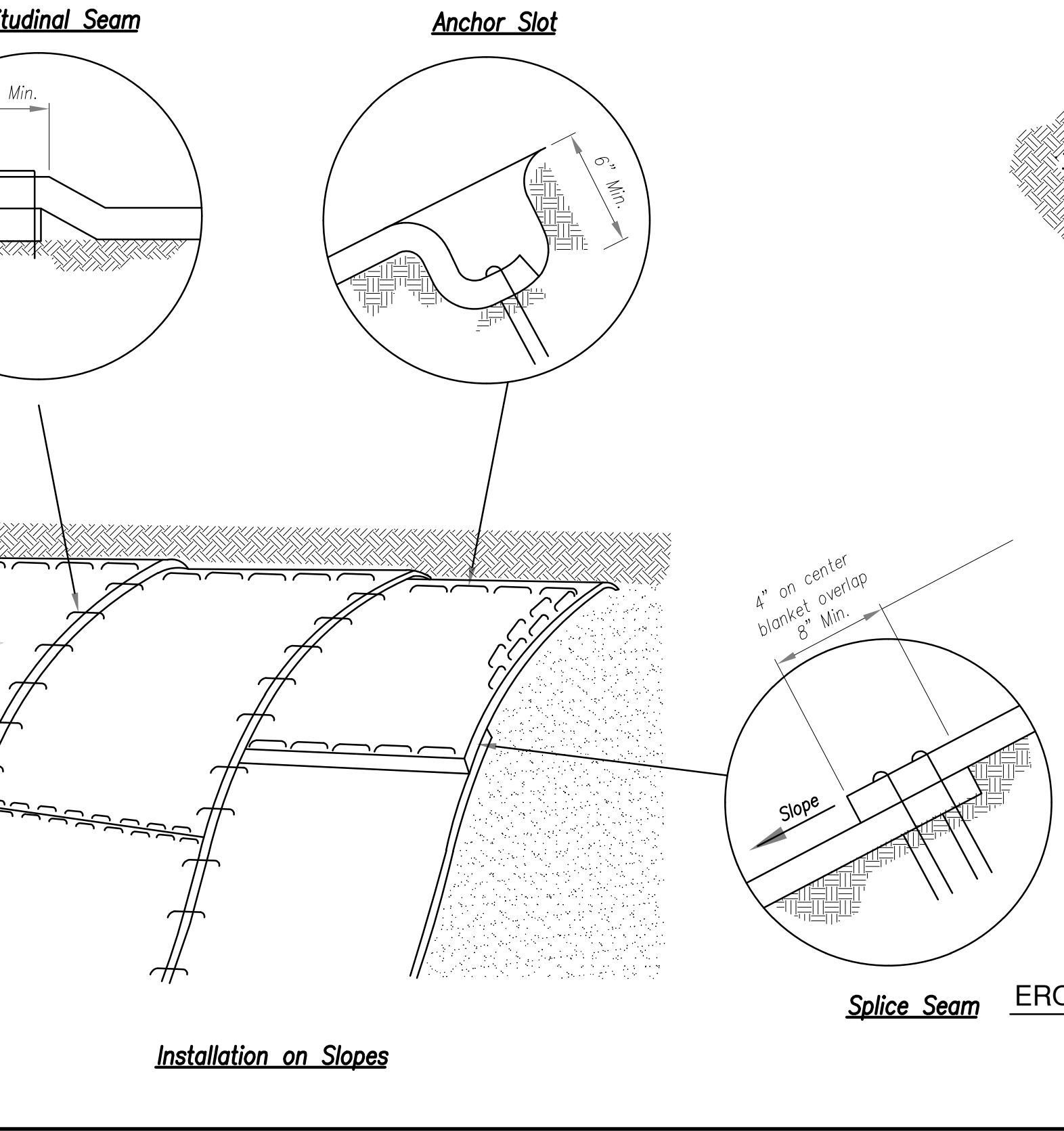
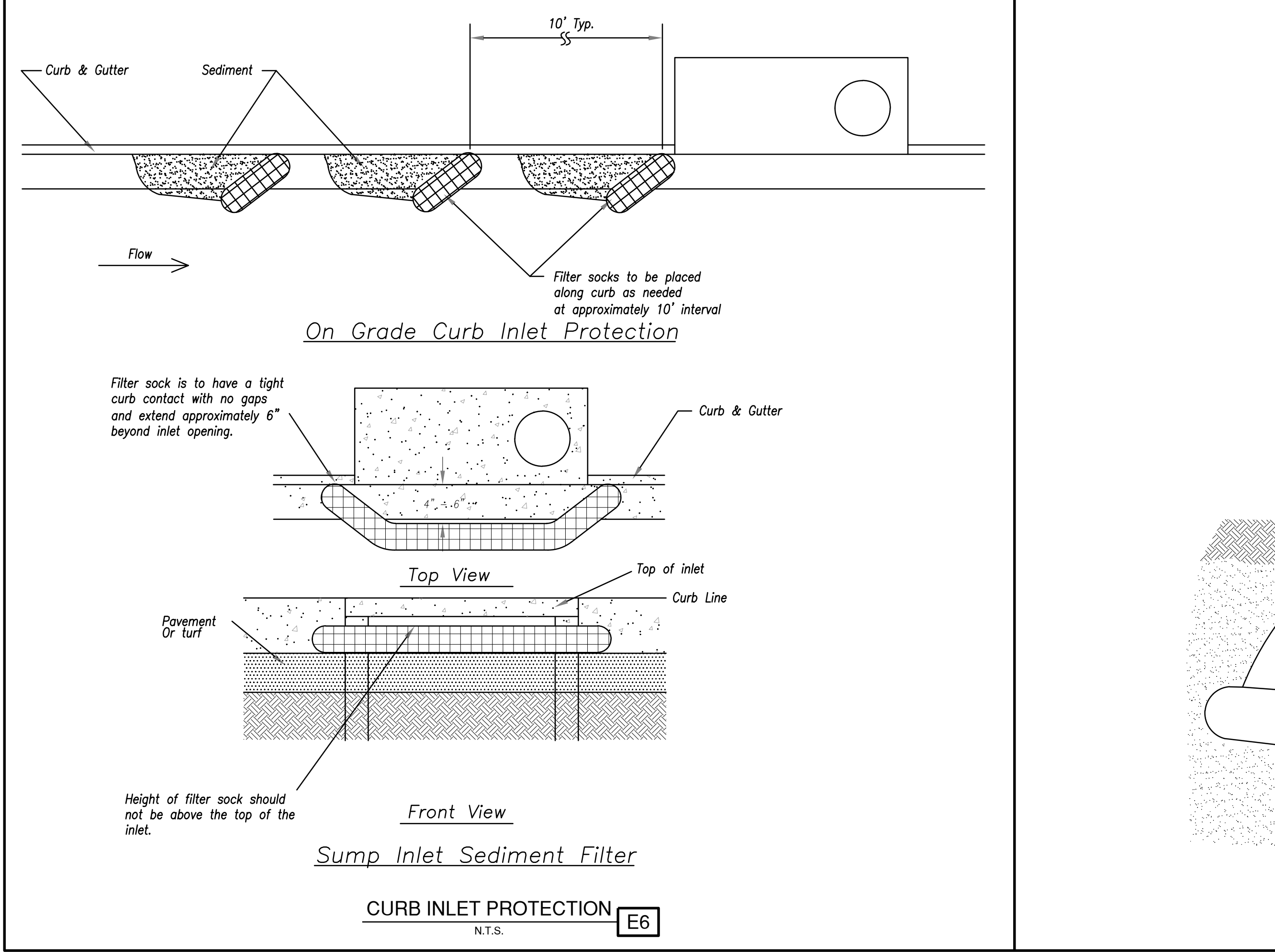


Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

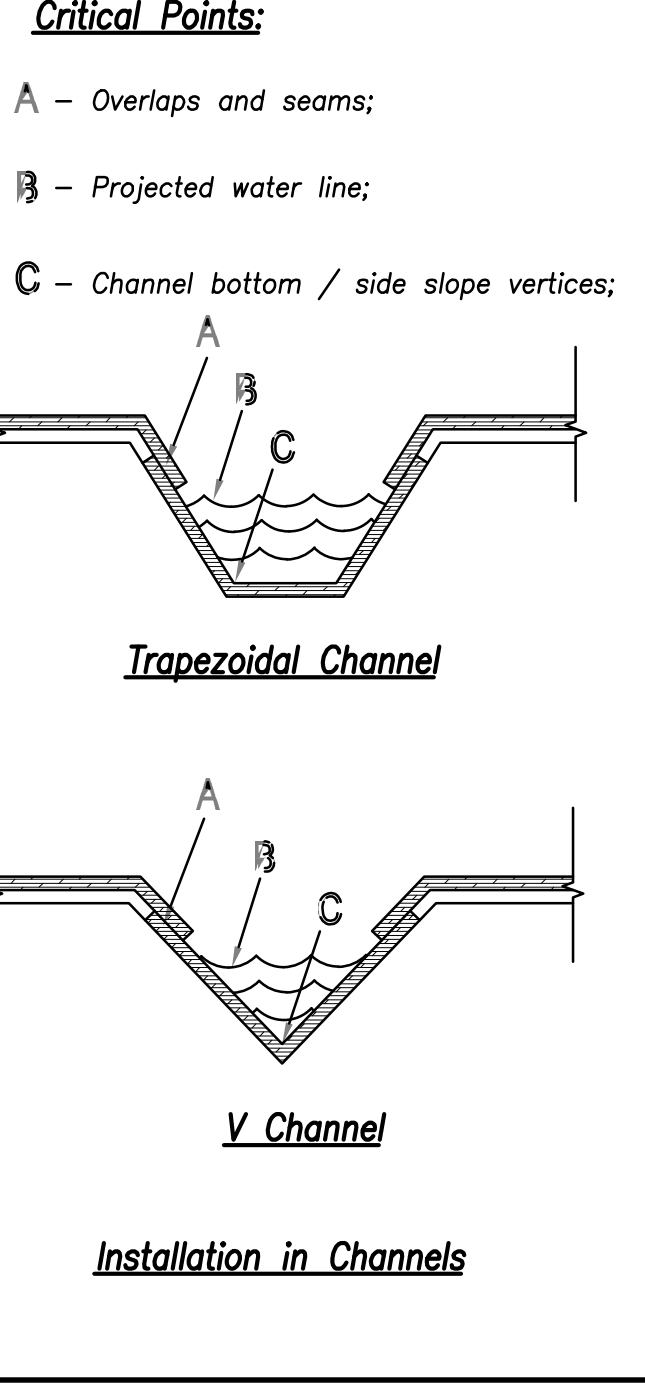
Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



Notes for Installation in Channels:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.
2. ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.
4. CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.
5. EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.
6. TERMINUS: The bottom edge of the mat shall be anchored.



General Notes:

1. APWA Specifications 2150 and Design Guidance 5100 shall be referenced to select type of blanket or mat to be used.
2. Typical anchors and pattern/spacing shall be installed according to the manufacturers instructions.
3. LONGITUDINAL SEAMS: The edges of the blanket or mat should overlap each other a minimum of 6 inches, with anchors catching the edges of both blankets.

Maintenance:

1. Torn or degraded product shall be repaired or replaced, unless such degradation is within the functional longevity specified by the manufacturer.
2. Edges or seams that are loose or frayed shall be secured.



1627 MAIN STREET, SUITE 600
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472

CAD DWG FILE: EROSION CONTROL DETAILS

DESIGNED BY: WLC

DRAWN BY: WLC

CHECKED BY: JRC

APPROVED BY: TGH

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SHEET TITLE

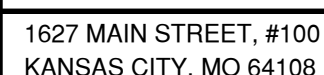
EROSION CONTROL
DETAILS

C125

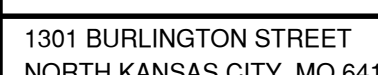
SHEET 036 OF 131



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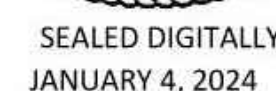


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EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO: 47732472

CAD DWG FILE: TYPICAL SECTIONS PLAN VIEW

DESIGNED BY: WLC

DRAWN BY: WLC

CHECKED BY: JBC

APPROVED BY: TGL

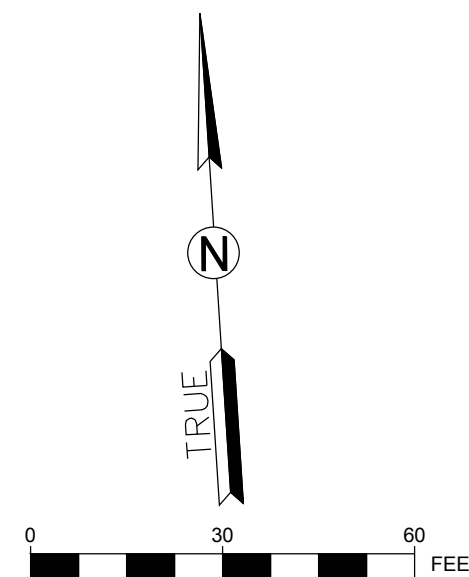
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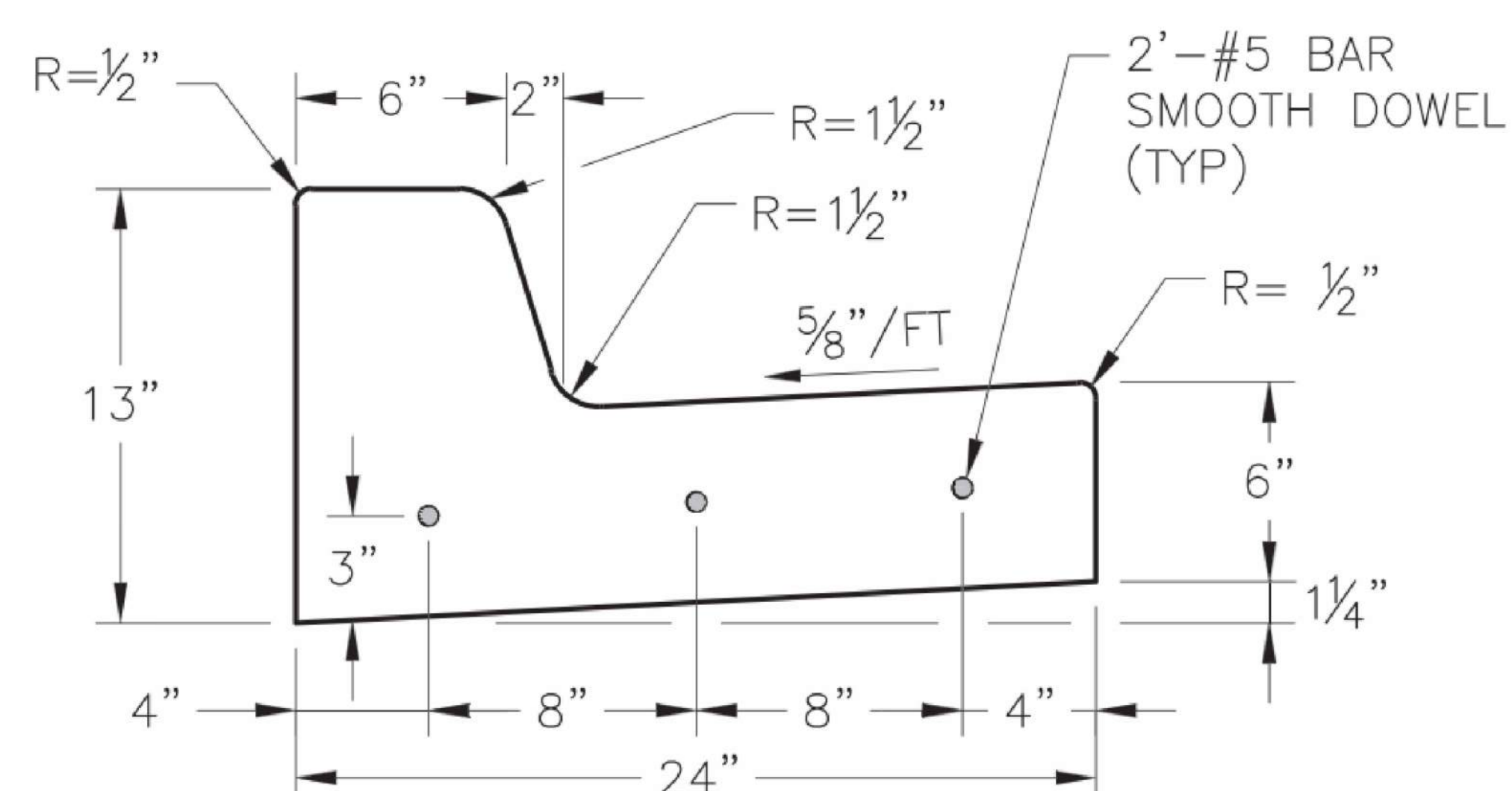
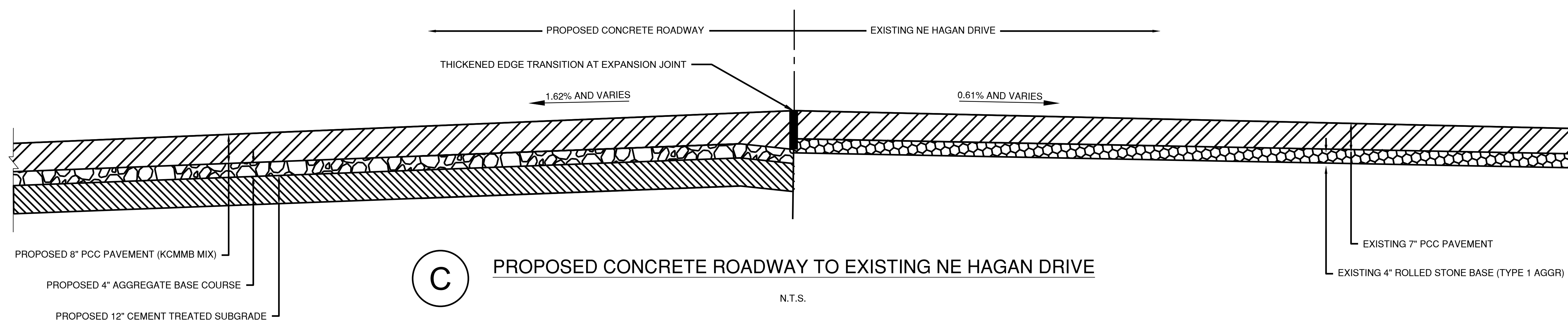
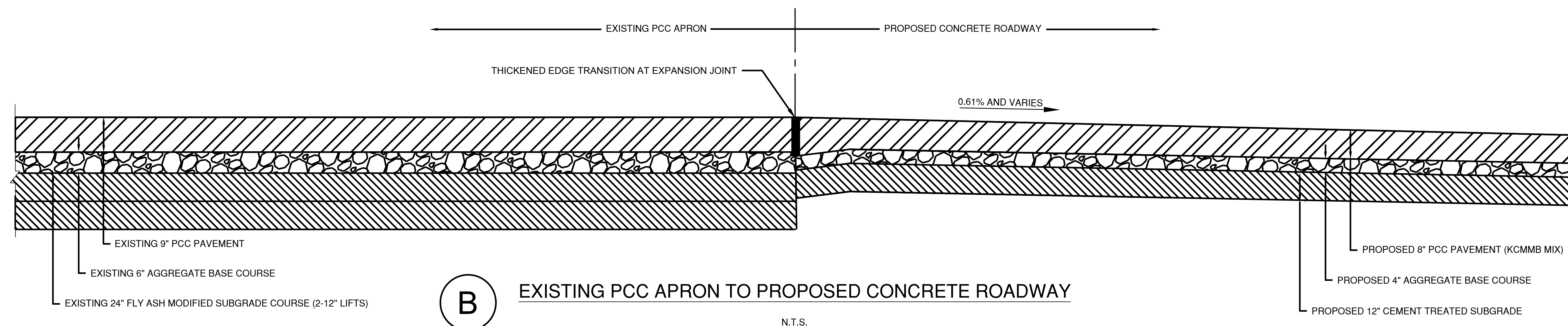
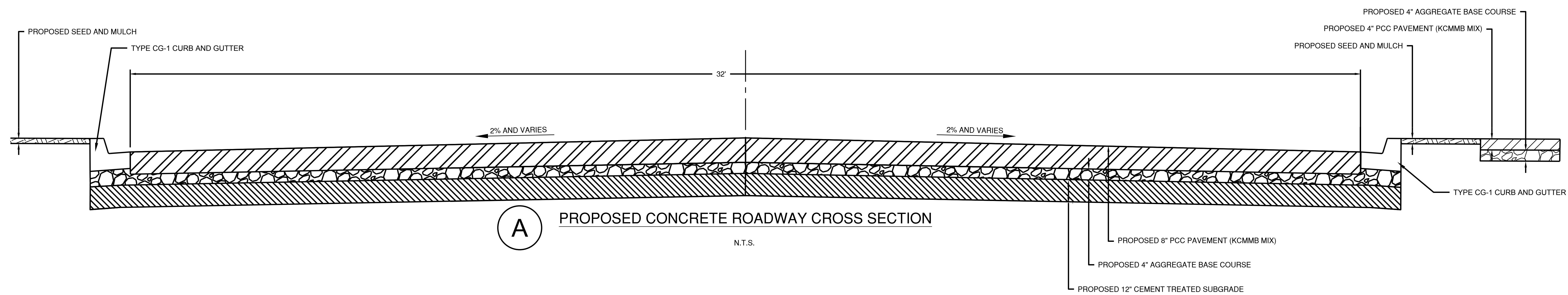
TYPICAL SECTIONS
PLAN VIEW

C126

SHEET 037 OF 131

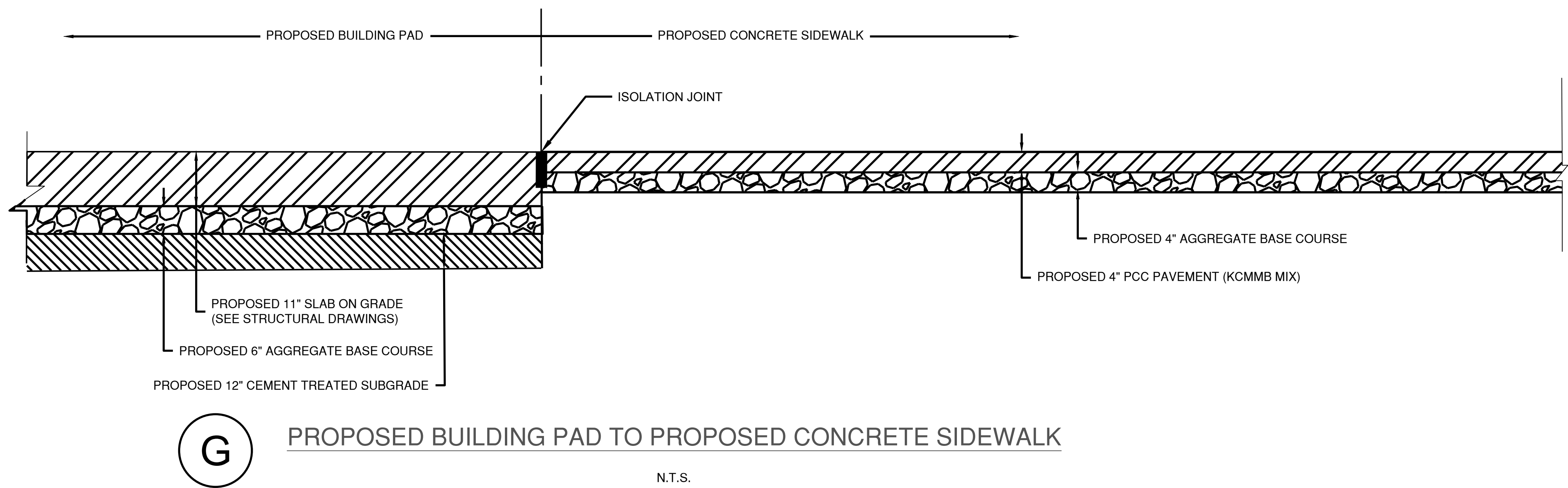
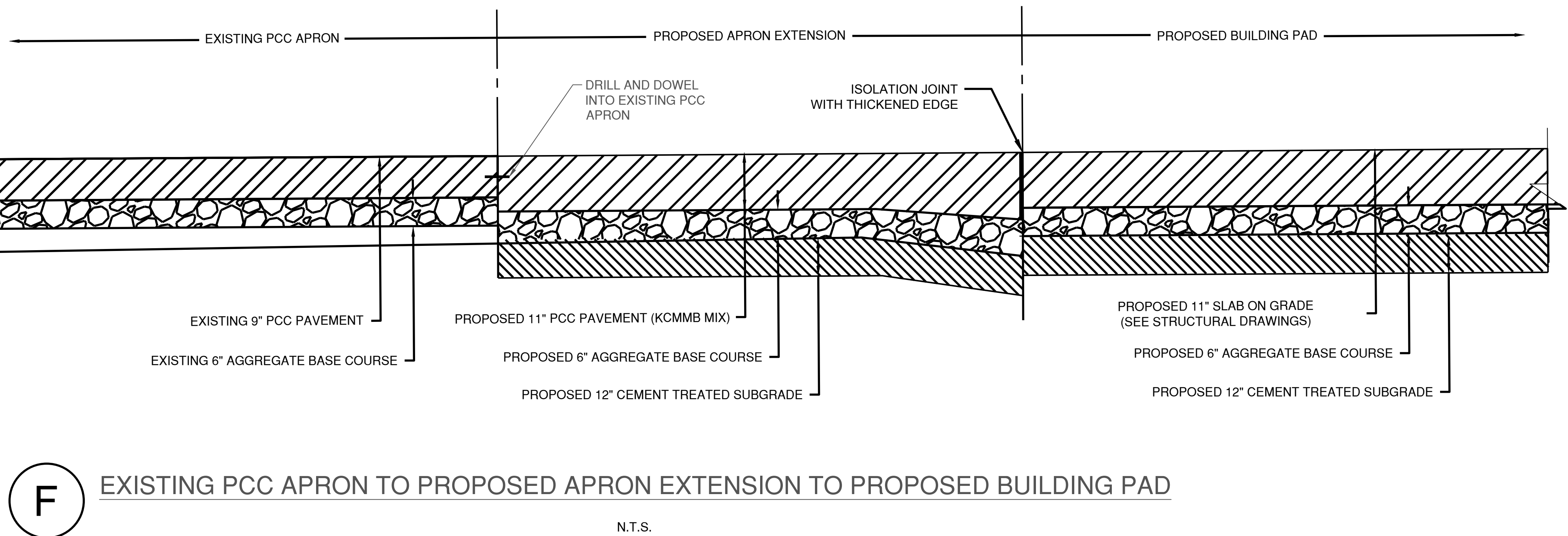
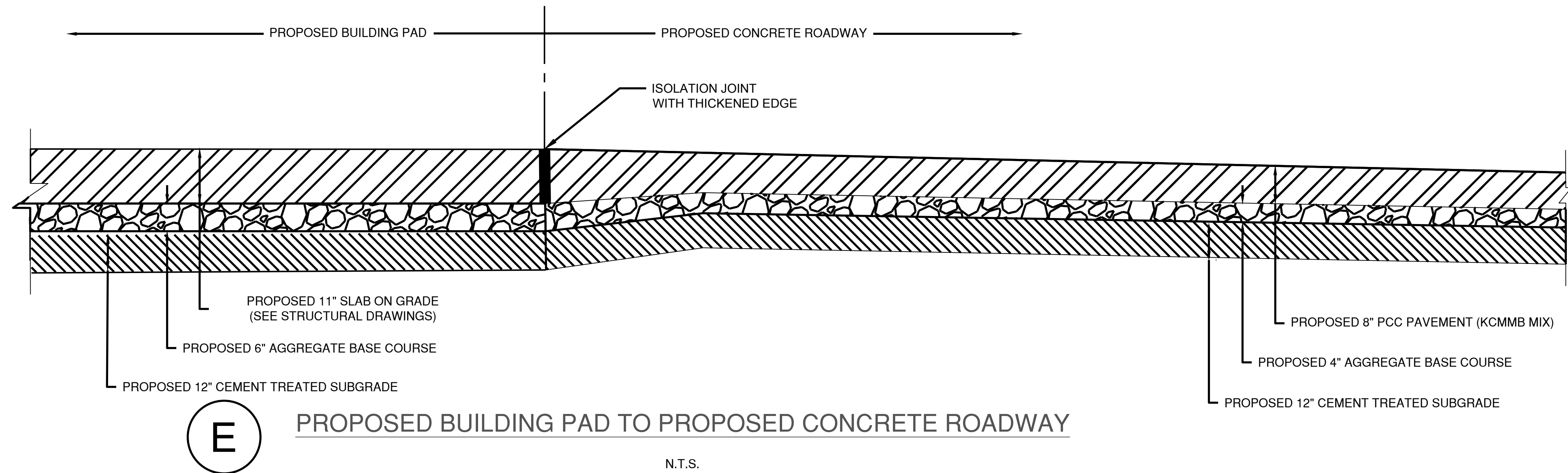


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- NOTES:
1. $\frac{1}{2}$ " EXPANSION JOINTS WITH 2" DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
 2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED TO MATCH TRANSVERSE JOINTS OF THE ADJACENT PAVEMENT. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
 3. FIX DOWELS WITH BAR SUPPORTS
 4. CONCRETE SHALL CONFORM TO MCIB NO WA6401-I-4 UNLESS OTHERWISE SPECIFIED IN THE PLANS AND PROJECT MANUAL. SEE SECTION 02290 - CURBING.
 5. AT CENTER MARKS - USE $\frac{1}{4}$ " \emptyset X 2' SMOOTH DOWELS AT LOCATIONS SHOWN ON EACH TYPICAL SECTION.
 6. DEPTH OF CURB SHALL BE MINIMUM OF 8" THRU THE HANDICAP ACCESS RAMP.

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1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



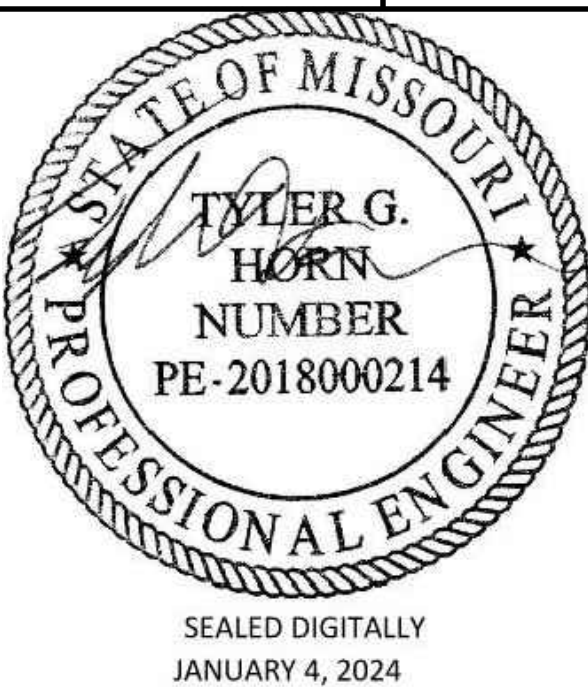
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	47732472
CAD DWG FILE:	TYPICAL SECTIONS - SHEET 2
DESIGNED BY:	WLC
DRAWN BY:	WLC
CHECKED BY:	JRC
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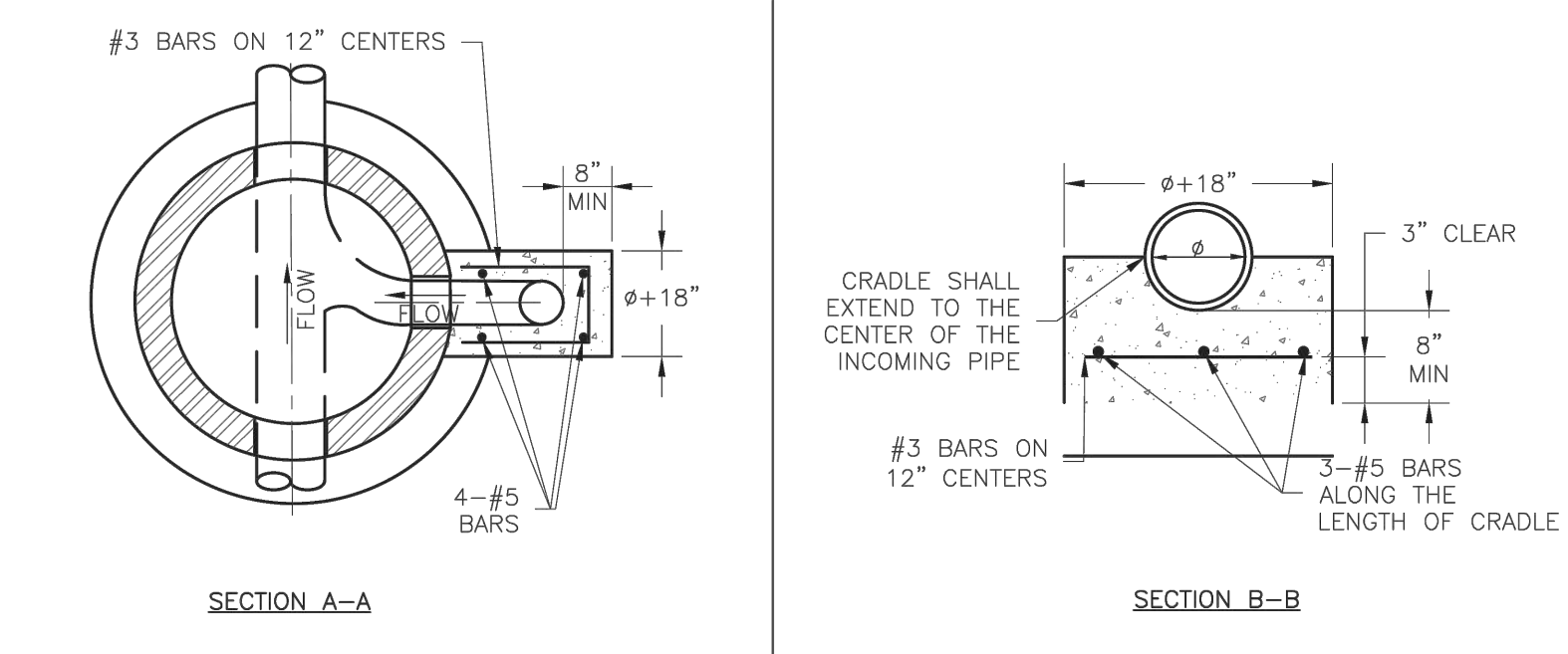
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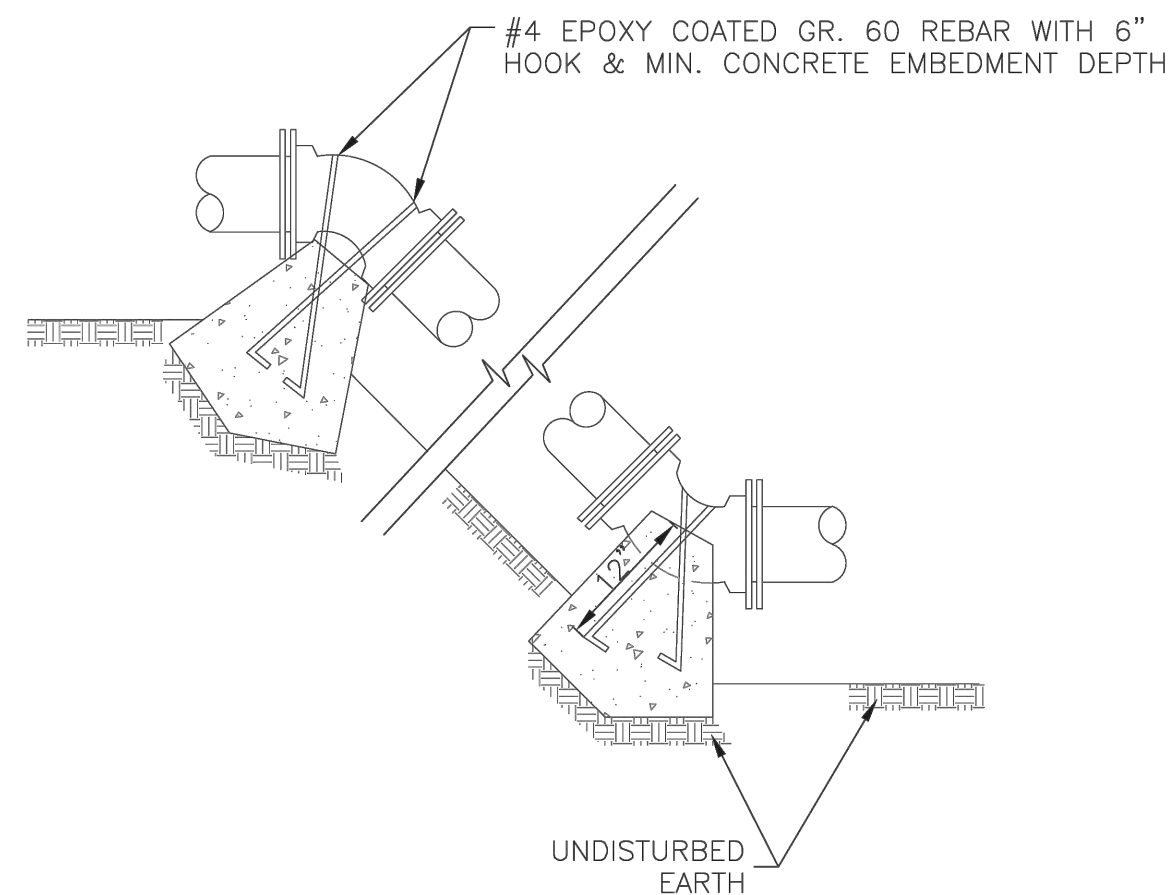
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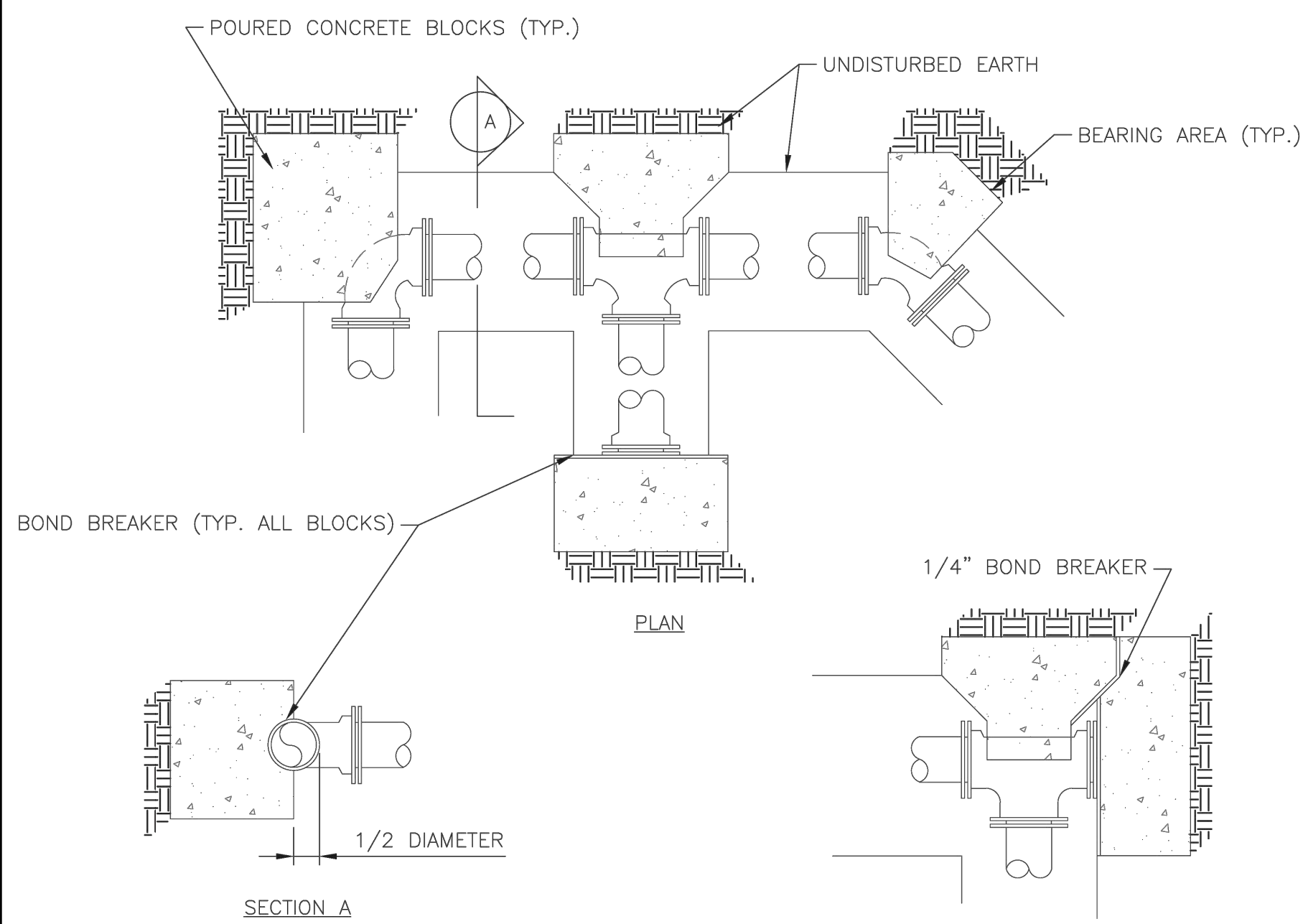
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STANDARD OUTSIDE DROP MANHOLE D1
N.T.S.



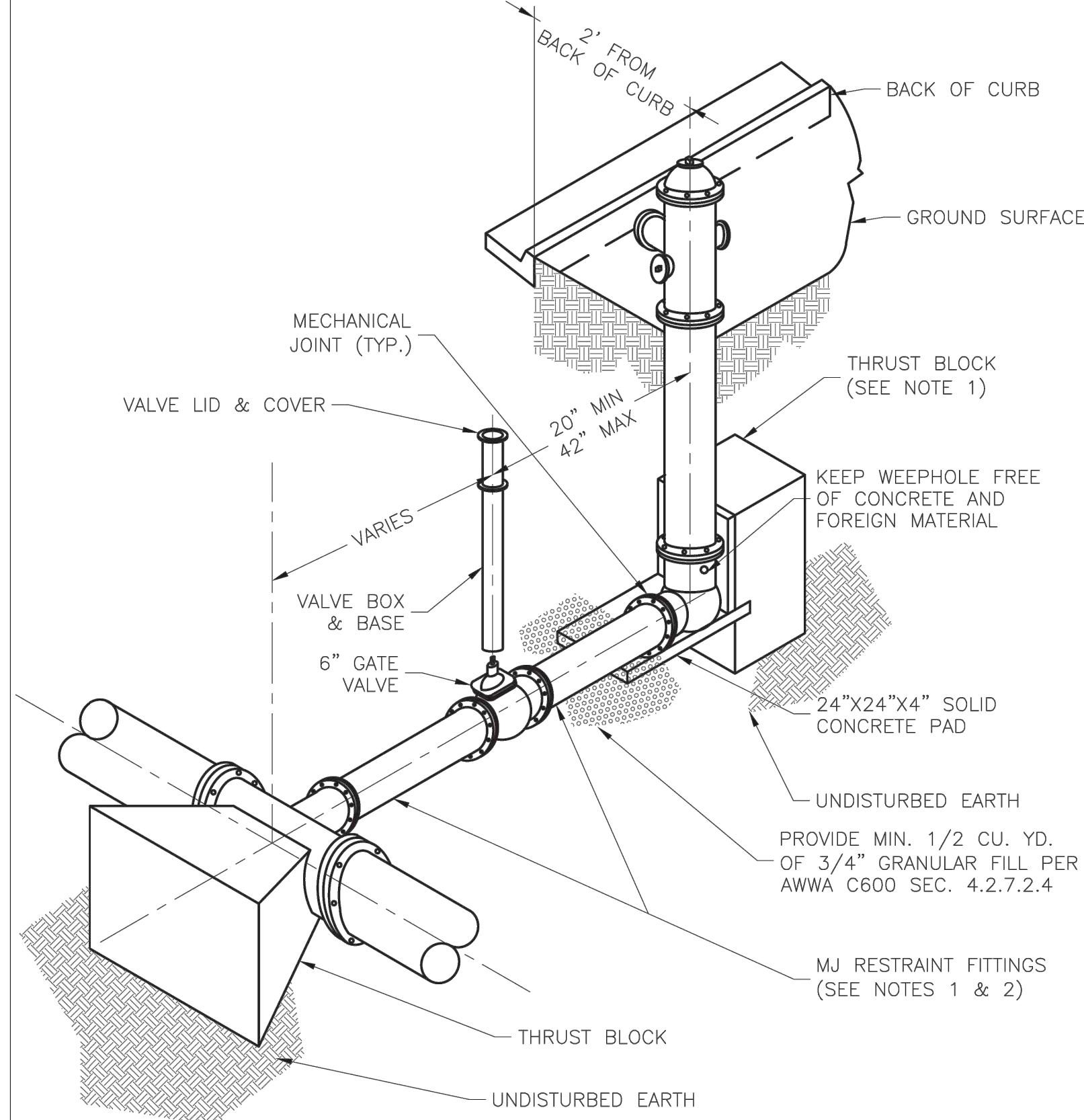
VERTICAL THRUST BLOCK D3
N.T.S.



REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)						
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND	
6	4.7	6.7	4.0	4.0	4.0	
8	8.4	11.8	6.4	4.0	4.0	
10	13.1	18.5	10.0	5.1	4.0	
12	18.8	26.7	14.4	7.4	4.0	
14	25.7	36.3	19.6	10.0	5.0	
16	33.5	47.4	25.6	13.1	6.6	
18	42.4	59.1	32.5	16.5	8.3	
20	REST. JT.	REST. JT.	40.1	20.4	10.3	
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8	

- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

HORIZONTAL THRUST BLOCK D5
N.T.S.



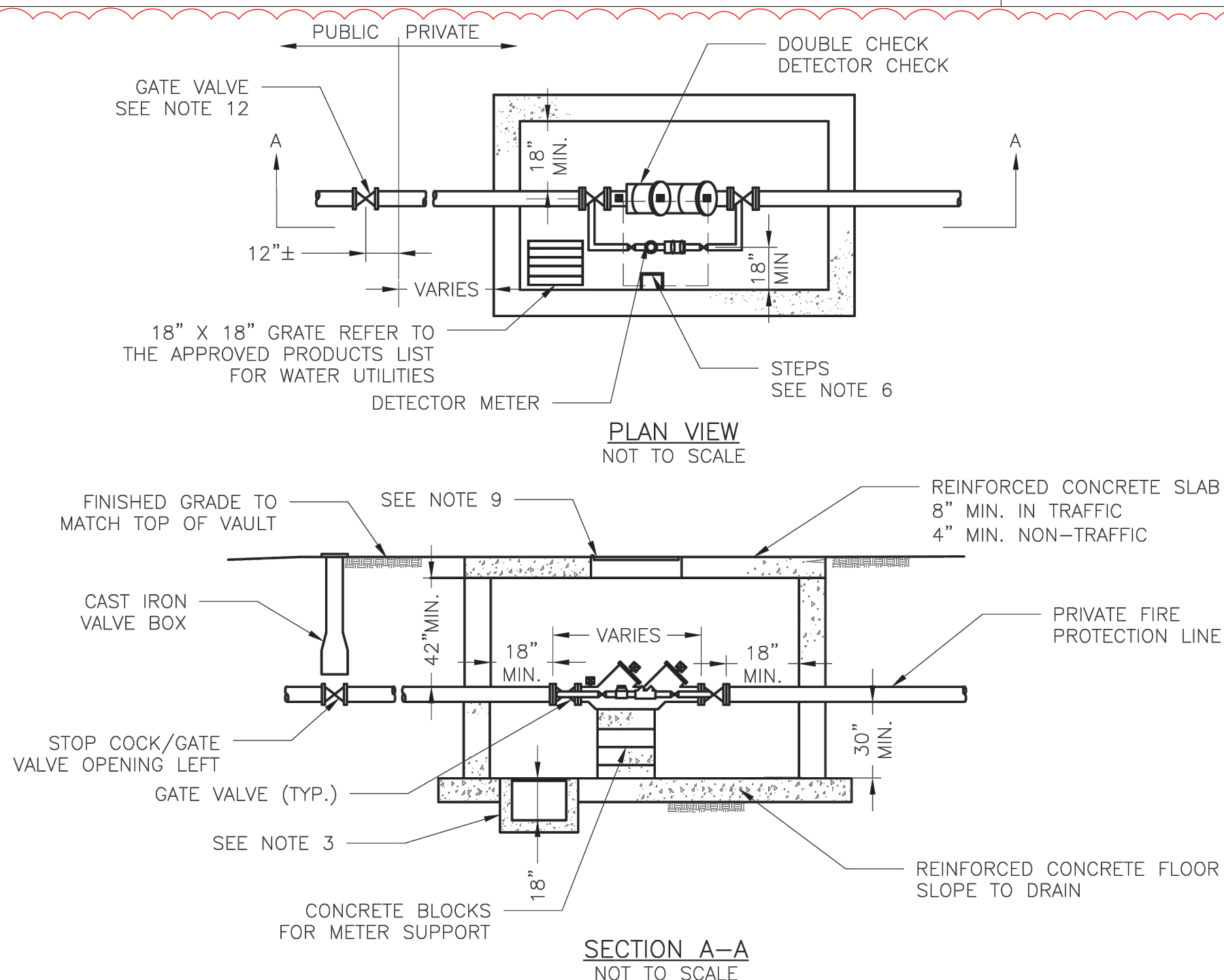
- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

FIRE HYDRANT ASSEMBLY DETAIL D2
N.T.S.

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	284.8	154.8	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

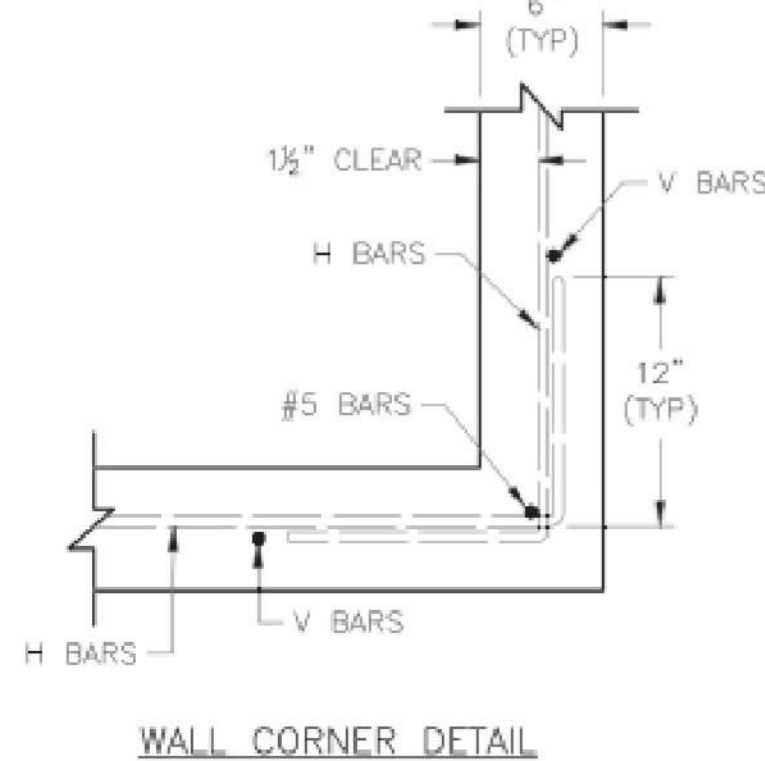
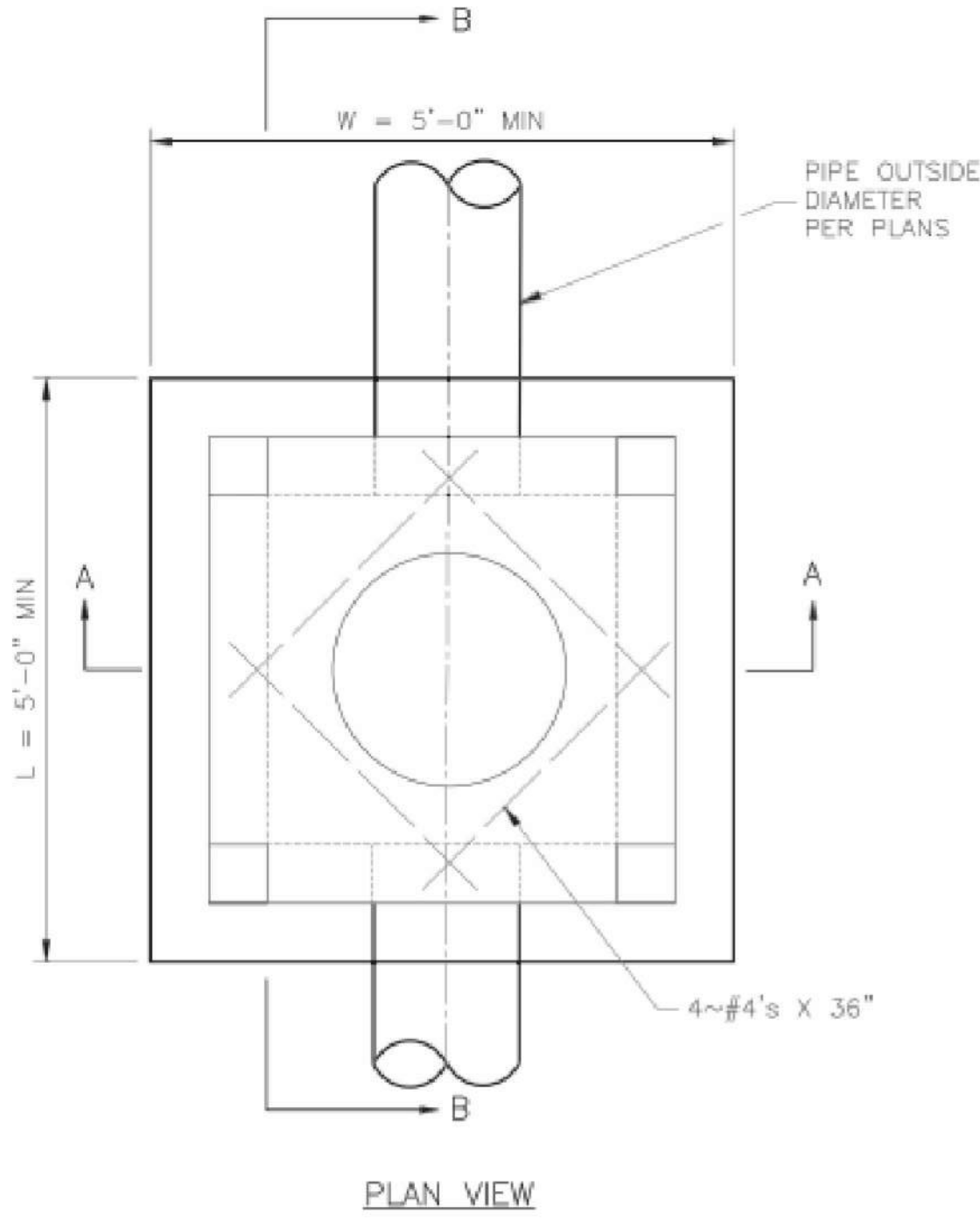
- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

VERTICAL THRUST BLOCK D3
N.T.S.

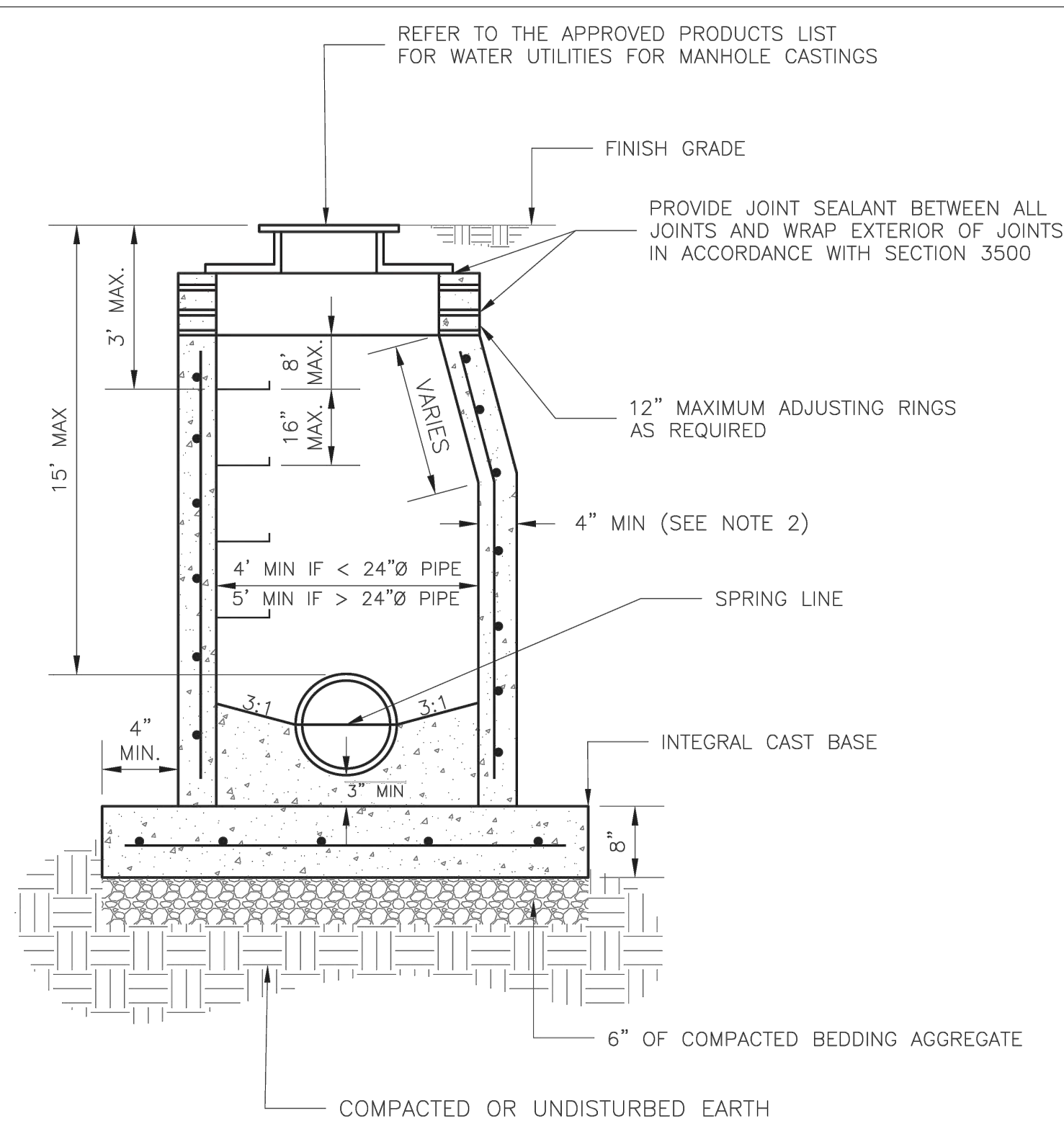


- GENERAL NOTES:
1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
 2. METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
 3. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM, WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
 4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
 5. ALL FITTINGS TO BE BRASS.
 6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
 7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
 8. ALL VALVES SHALL HAVE RISING STEMS.
 9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.
 10. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
 11. METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
 12. IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

BACKFLOW PREVENTION VAULT D15
N.T.S.

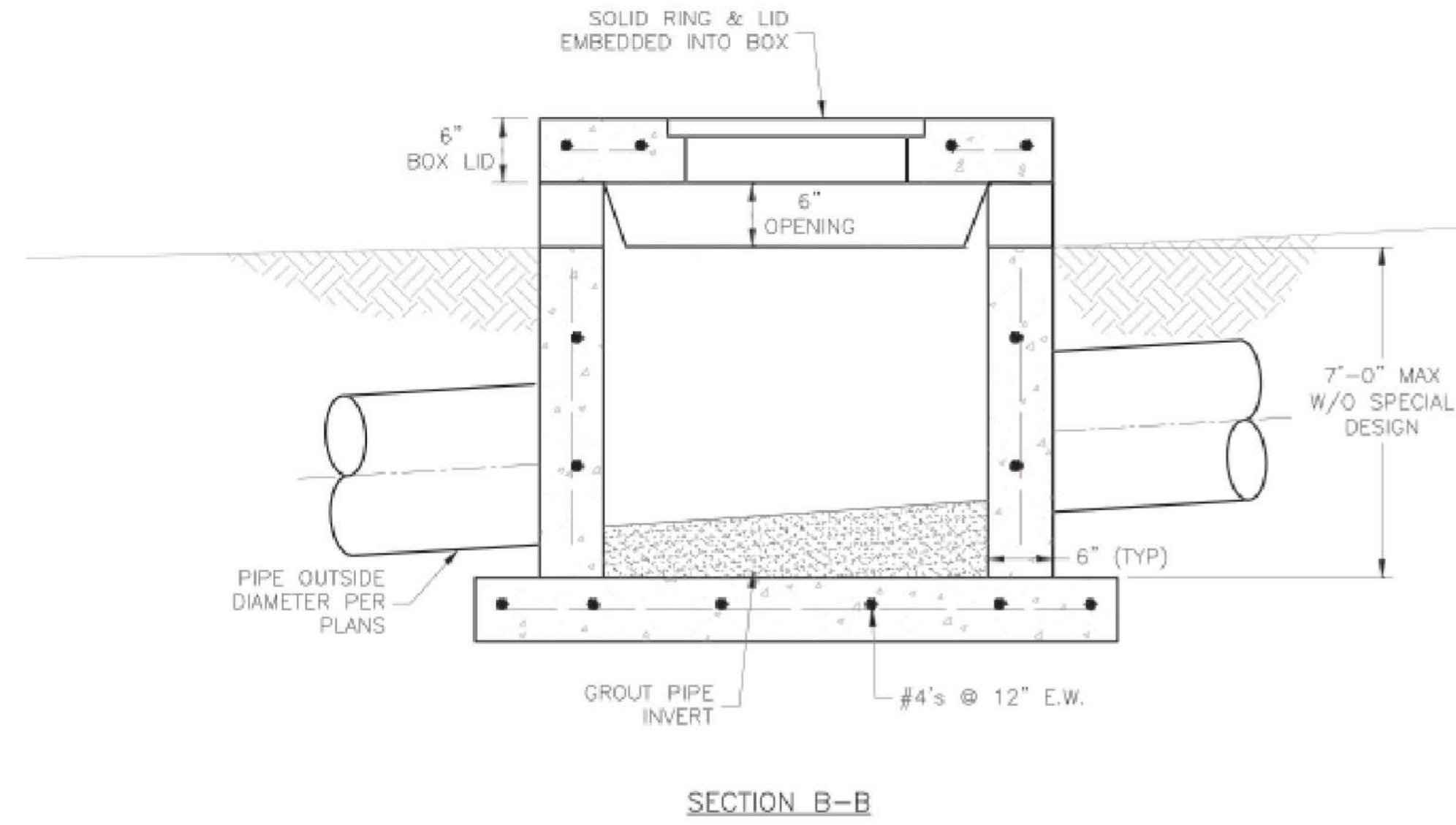


WALL CORNER DETAIL

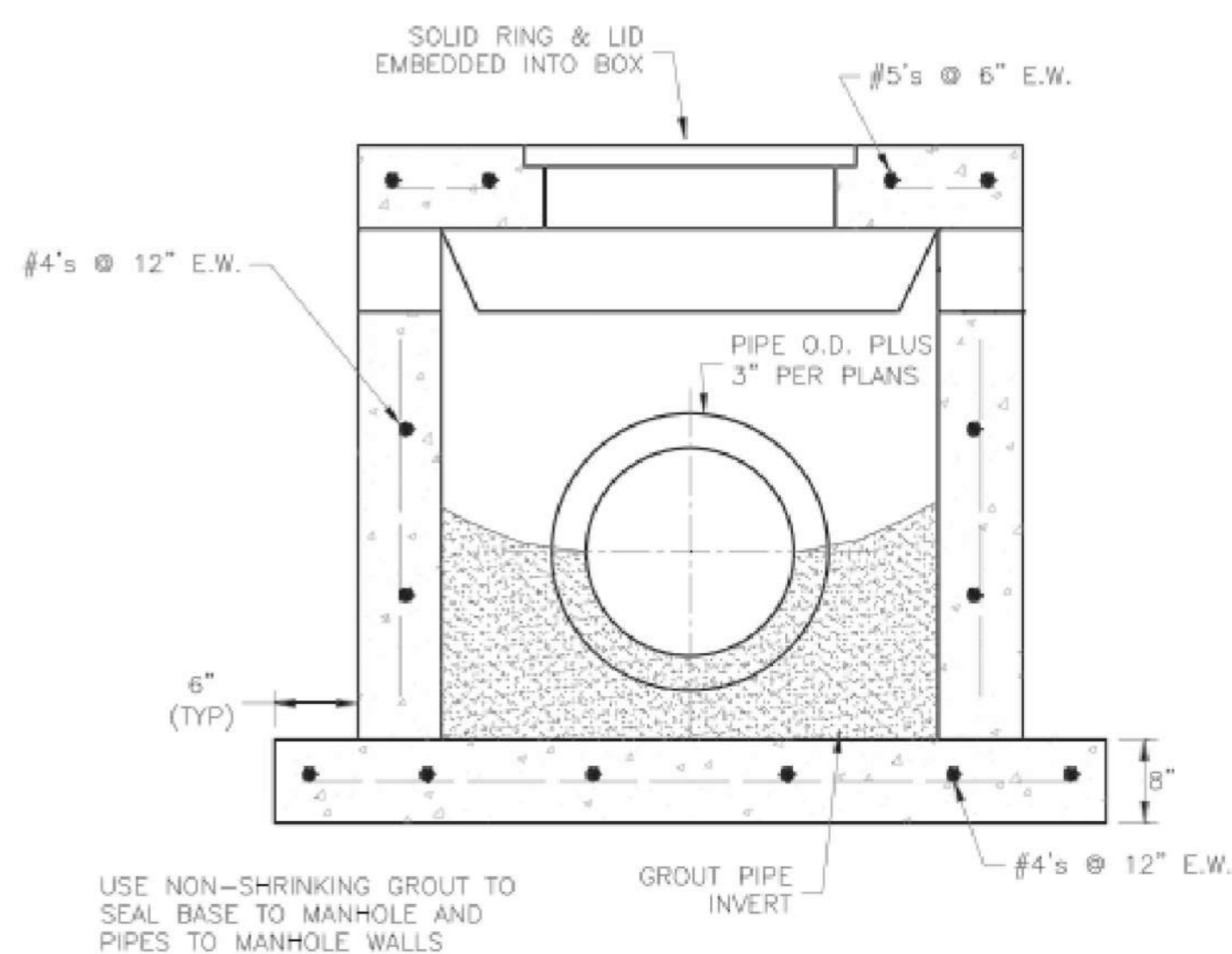


- NOTES:
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
 2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH ($\frac{1}{12}$) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THAN 15'.
 3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
 4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
 6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
 7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

STANDARD SANITARY PRECAST MANHOLE D6
N.T.S.



SECTION B-B

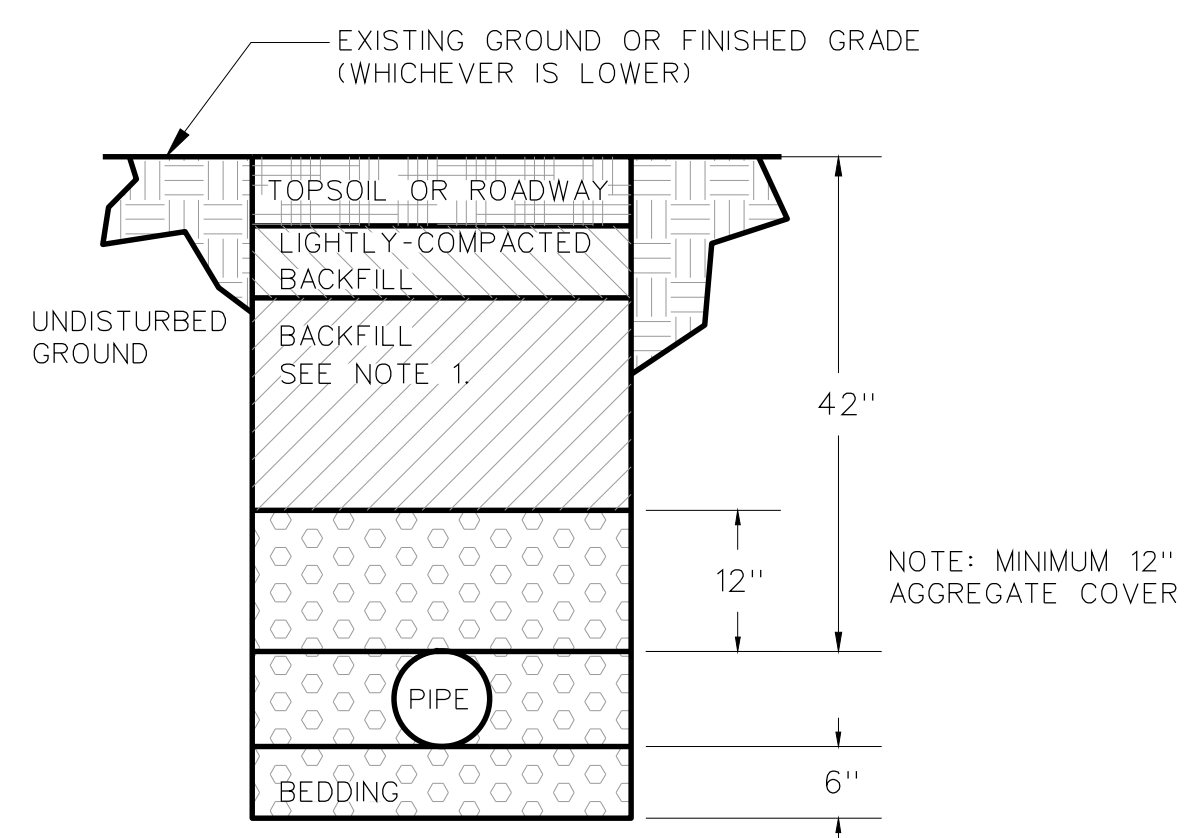


SECTION A-A

STANDARD STORM SEWER INLET DETAIL D4
N.T.S.

GENERAL NOTES:

1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE $\frac{3}{4}$ " CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.



NOTES:

1. BACKFILL OF ALL PIPES UNDER ROADWAYS, CURB AND GUTTER AND ALL OTHER PAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL CONSIST OF FLOWABLE BACKFILL AS SPECIFIED IN SECTION 2602.2.H MIX DESIGN TYPE: A. THE FLOWABLE FILL SHALL EXTEND TO 2 FEET FROM BACK OF CURB TO 2 FEET BACK OF CURB, UP TO 18 INCHES BELOW FINISHED GRADE. FOR EXISTING ROADWAYS FLOWABLE SHALL BE EXTEND UP TO THE BASE OF PAVEMENT.

TRENCHING AND BACKFILL DETAIL D7
N.T.S.



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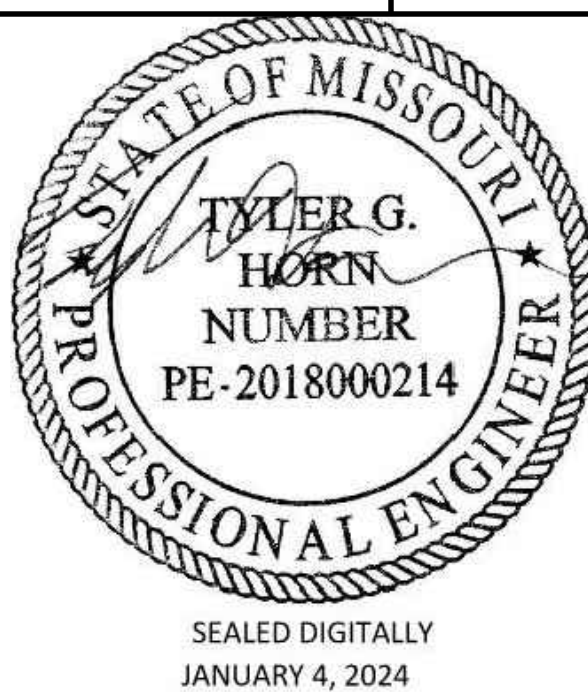


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1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472

CAD DWG FILE: SITE DETAILS - 2

DESIGNED BY: WLC

DRAWN BY: WLC

CHECKED BY: JRC

APPROVED BY: TGH

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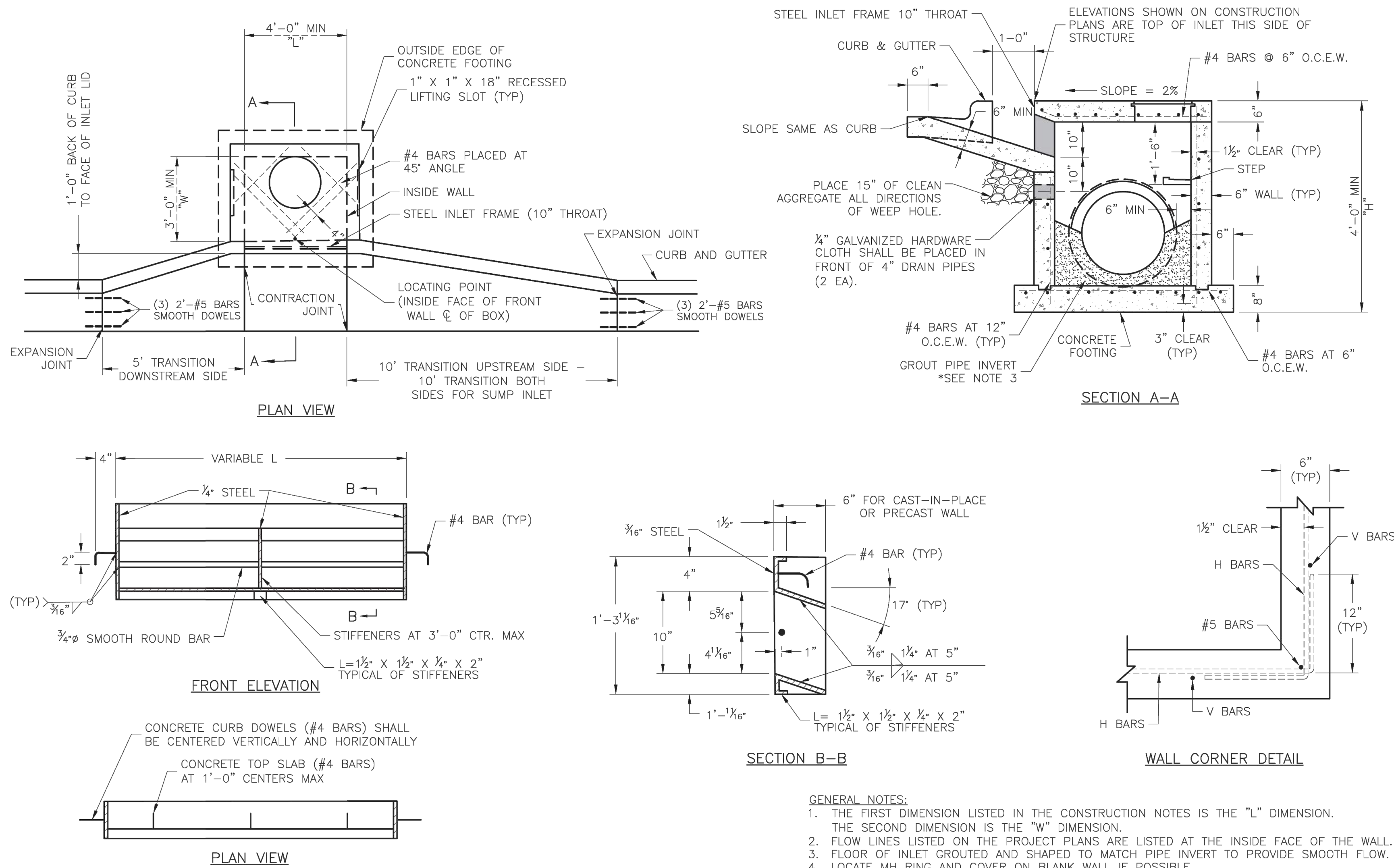
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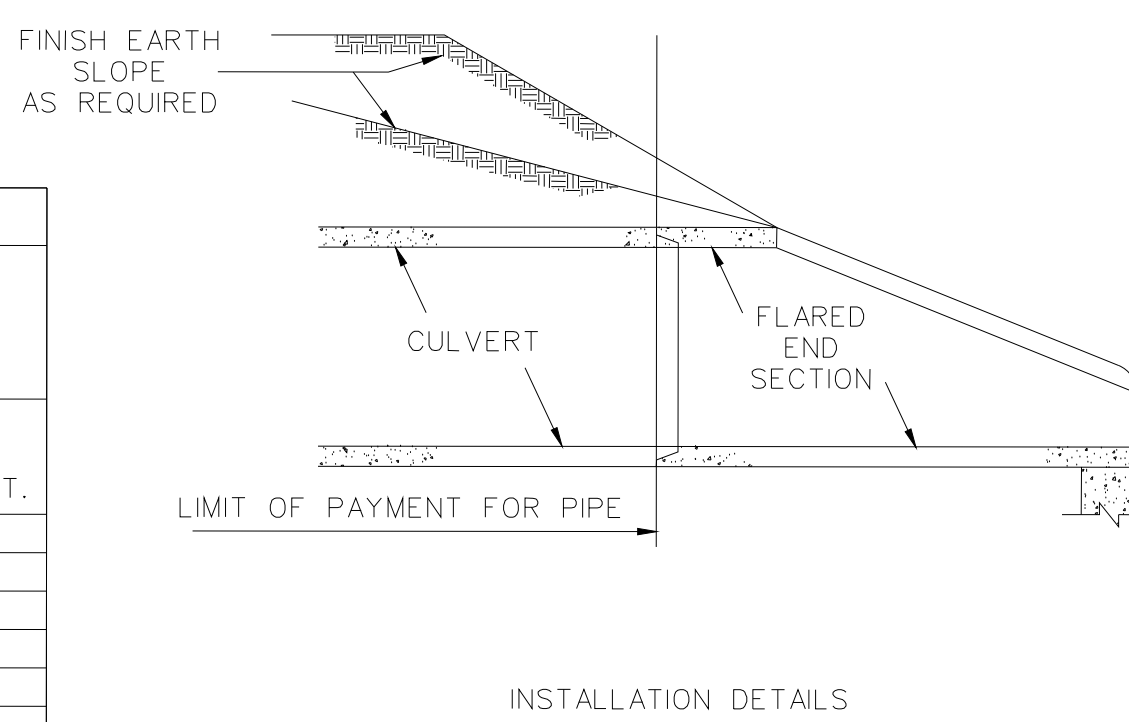
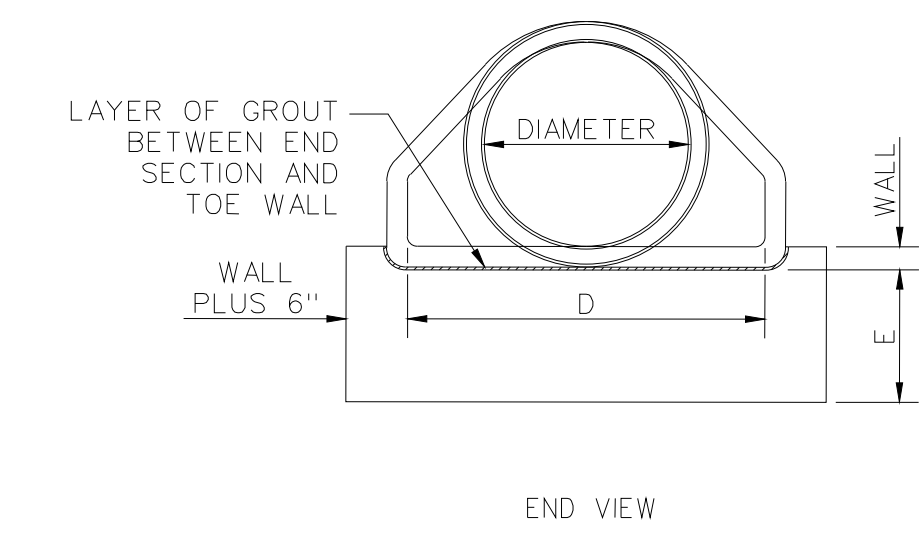
STEEL FRAME NOTES:

1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.

CURB INLET DETAIL D8
N.T.S.

NOTE: INLETS 7, 8, 9 AND 19 ARE NON RECESSED

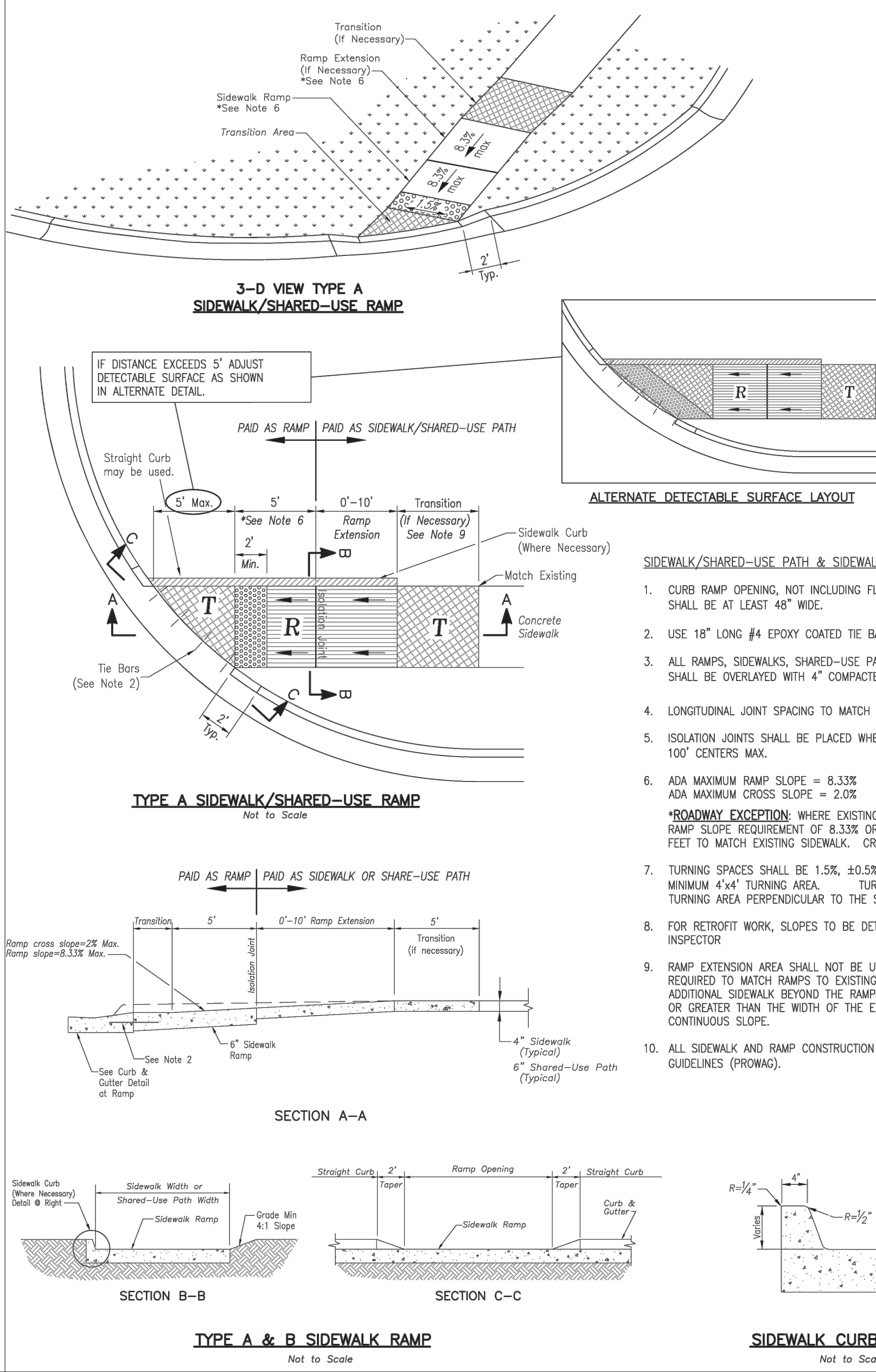
DIMENSIONS						
DIA.	WALL	A	B (MIN.)	C (MIN.)	D	E
12"	2"	4"	4'-0"	6'	2'-0"	18"
15"	2-1/4"	6"	3'-10"	6'	2'-6"	18"
18"	2-1/2"	9"	3'-10"	6'	3'-0"	18"
21"	2-3/4"	9"	3'-2"	6'	3'-6"	18"
24"	3"	9-1/2"	2'-6"	6'	4'-0"	24"
27"	3-1/4"	10-1/2"	2'-1"	6'	4'-6"	24"
30"	3-1/2"	1'-0"	1'-7"	6'	5'-0"	24"
24" x 38"	3-3/4"	10-1/4"	1'-6"	6'	5'-0"	24"
	4"	1'-3"	2'-10"	8'	6'-0"	24"
42"	4-1/2"	2'-11"	2'-11"	8'	6'-6"	24"
48"	5"	2'-0"	2'-2"	8'	7'-0"	24"
54"	5-1/2"	2'-3"	2'-11"	8'	7'-6"	36"
60"	6"	2'-6"	3'-3"	8'	8'-0"	36"
66"	6-1/2"	2'-0"	1'-9"	8'	8'-6"	36"



NOTE:
THE UNIT PRICE PAID FOR CONCRETE FLARED END SECTIONS SHALL INCLUDE THE BARREL. THE BARREL SHALL NOT BE INCLUDED FOR PAYMENT AS CONCRETE PIPE CULVERT.

PRECAST CONCRETE FLARED END SECTION D11
N.T.S.

ADA RAMP TYPE A&B DETAIL D14
N.T.S.



SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

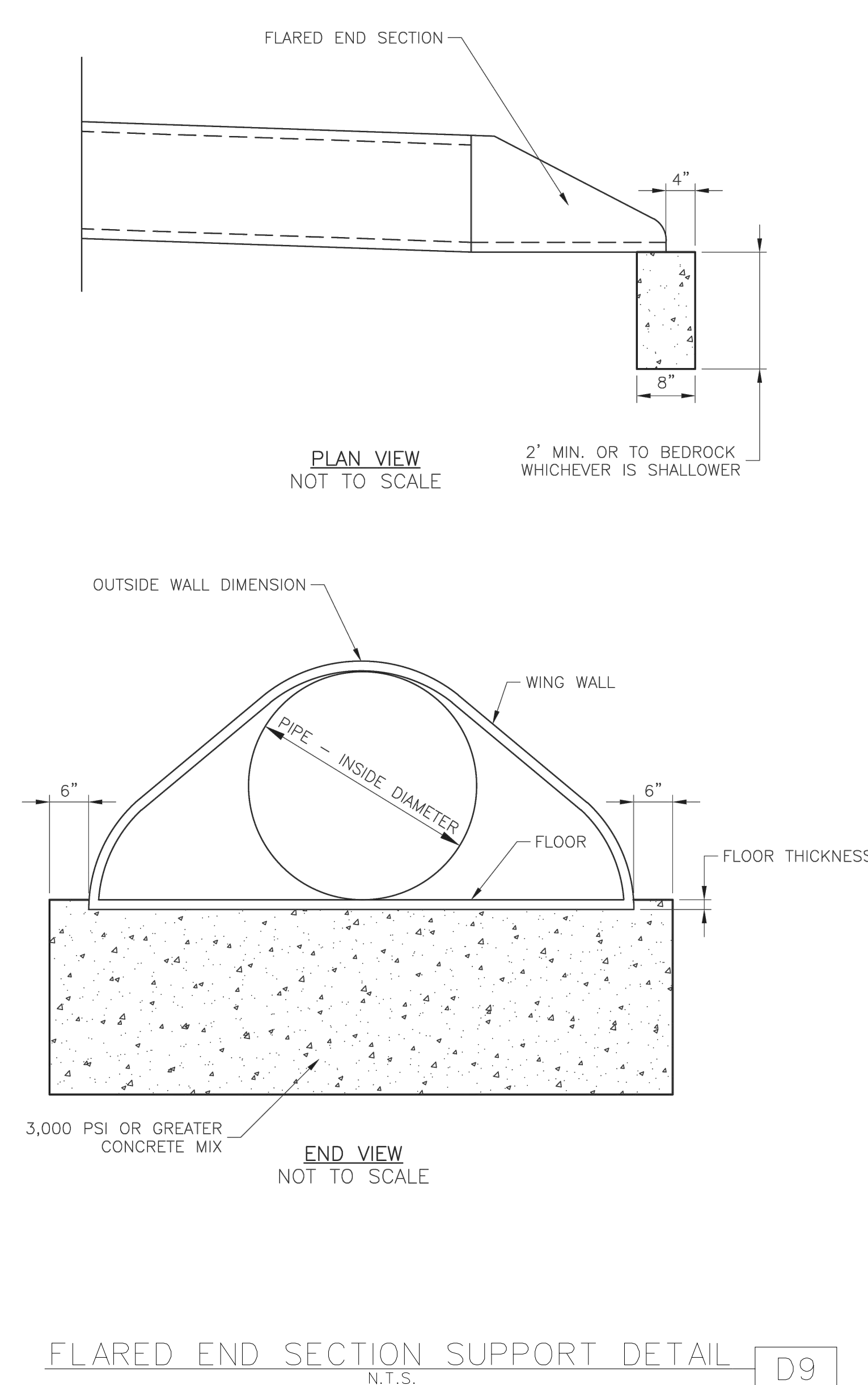
1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED THE BARS 9" IN EACH DIRECTION.
3. ALL RAMP, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
ADA MAXIMUM CROSS SLOPE = 2.05%
*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5% SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR.
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMP TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (FROWA).

SIDEWALK CURB DETAIL
Not to Scale

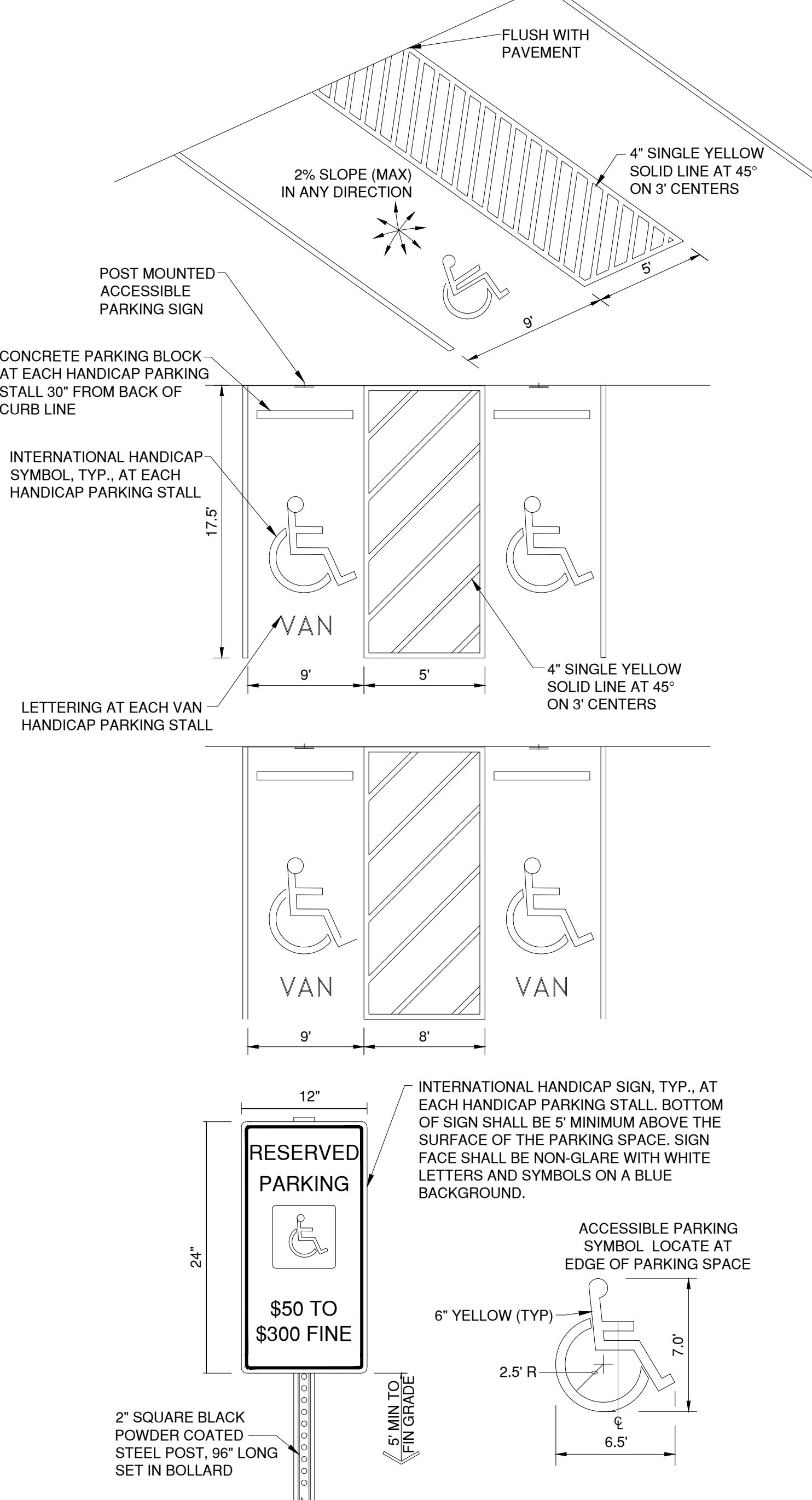
CONTRACTION JOINT
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ISOLATION JOINT
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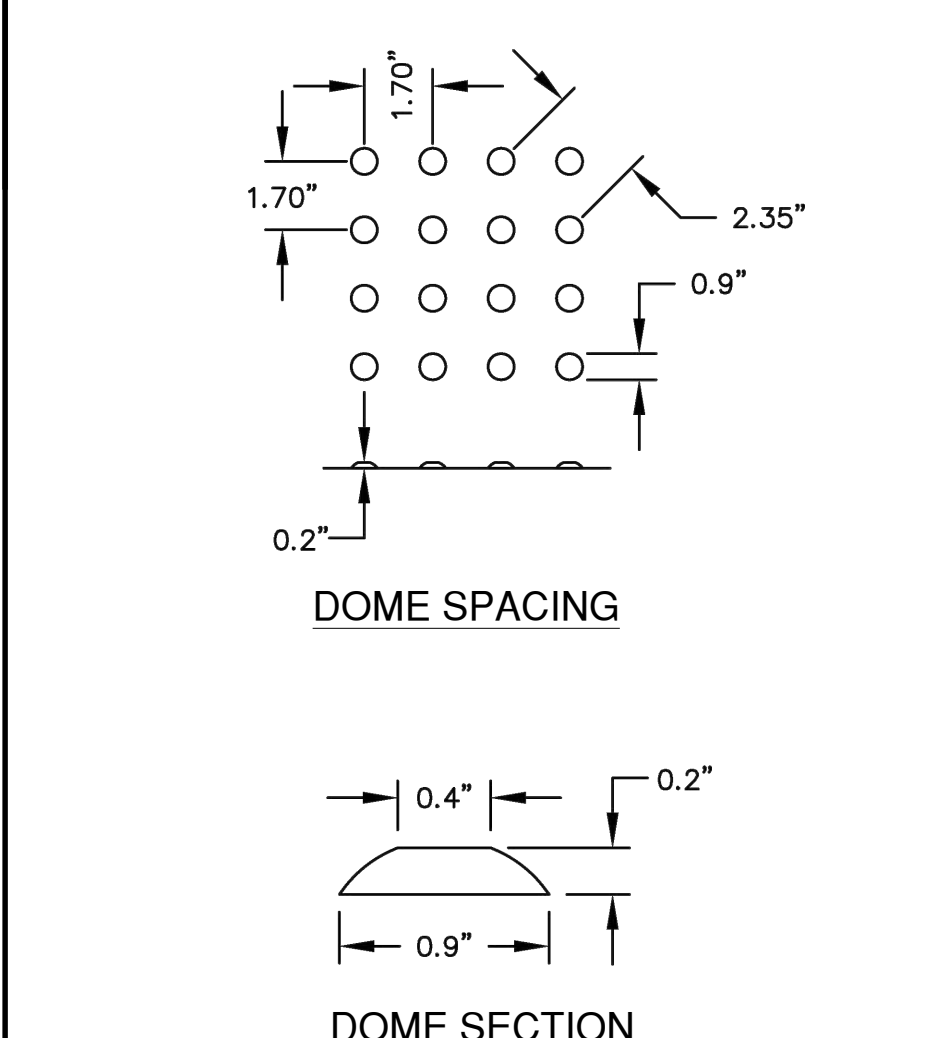
CURB & GUTTER DETAIL AT RAMP
Not to Scale



ADA PARKING STALL DETAIL D10
N.T.S.



ADA SIDEWALK RAMP DETAIL D12
N.T.S.



TRUNCATED DOME DETAIL D13
N.T.S.



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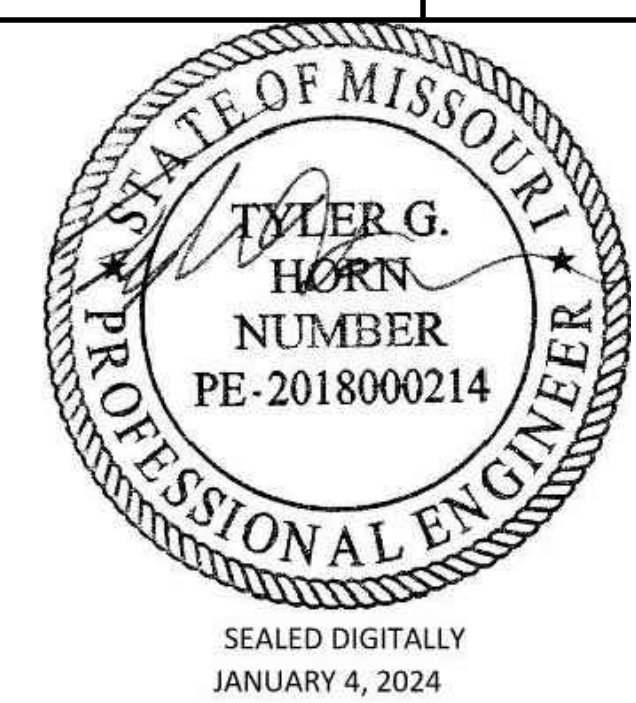
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LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

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APPROVED BY: TGH

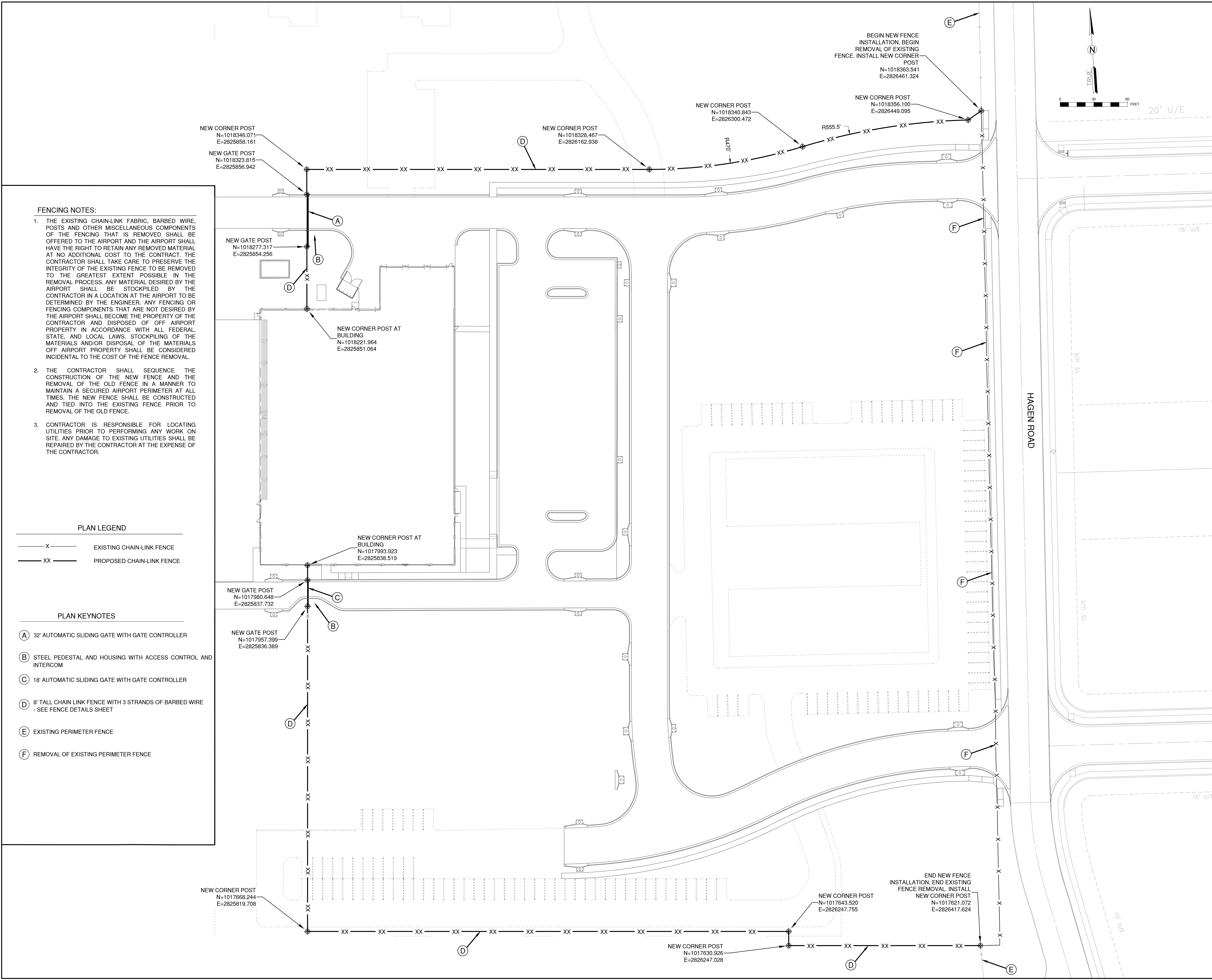
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SHEET 2

C130

SHEET 041 OF 131



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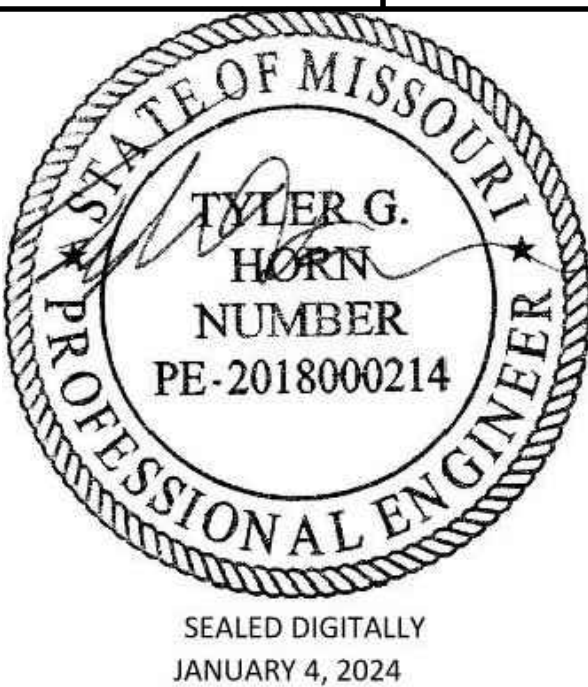
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EASTSIDE DEVELOPMENT
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

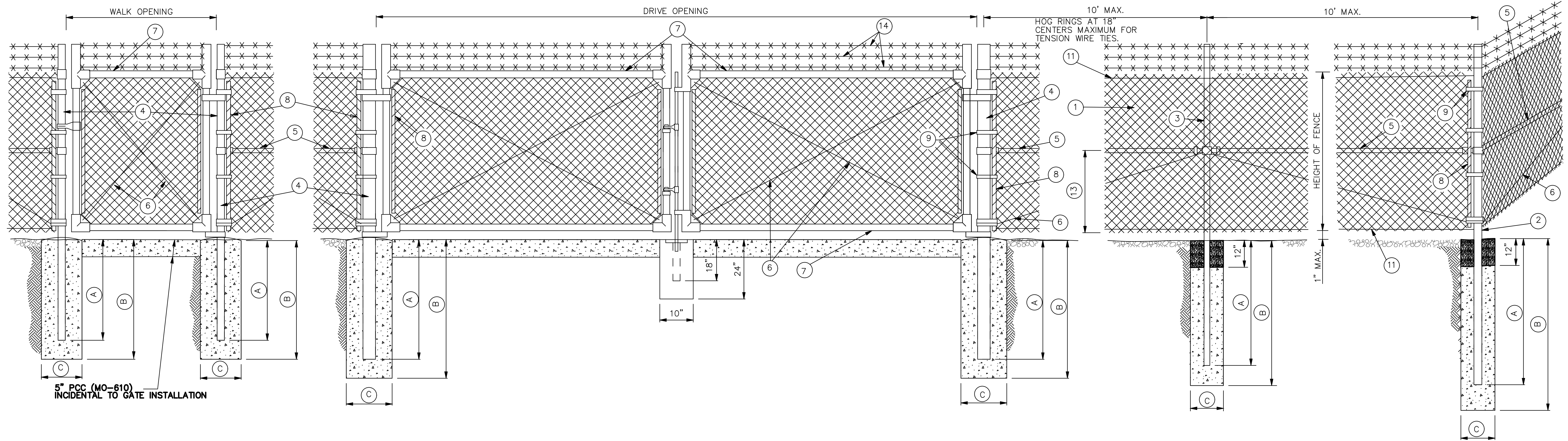
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DRAWN BY:	WLC	
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C131

SHEET 042 OF 131



ROADWAY DITCHES OR SMALL SHALLOW CHANNELS
(SPAN WITH NORMAL LINE POST SPACING)

POORLY DEFINED CHANNELS (SMALL DRAINAGE AREAS)

WELL DEFINED CHANNELS (LARGE DRAINAGE AREAS)

TYPICAL FENCING AT
CHANNEL CROSSING

TYPICAL
WATER CROSSING GATE

BARBED WIRE
EXTENSION BRACKET
AND MOW STRIP

CONCRETE PAD
AT GATES

NOTE:
CONCRETE PAD TO BE INSTALLED AT ALL GATE LOCATIONS
WHERE PORTLAND CEMENT CONCRETE OR BITUMINOUS
CONCRETE DOES NOT ALREADY EXIST.

MINIMUM DEPTH FOR SETTING POSTS

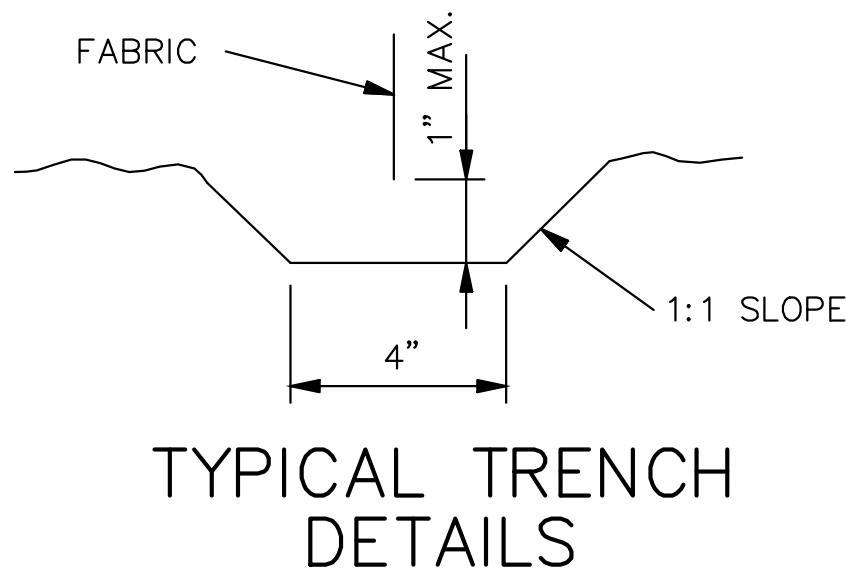
DESCRIPTION		HEIGHT OF FENCE			
		48"	60"	72"	96"
		SIZE (IN.)	SIZE (IN.)	SIZE (IN.)	SIZE (IN.)
② END CORNER & PULL POST	(A)	30"	36"	36"	54"
	(B)	36"	42"	42"	60"
	(C)	10"	12"	12"	14"
③ LINE POST	(A)	24"	27"	36"	48"
	(B)	30"	36"	42"	54"
	(C)	10"	12"	12"	12"
④ GATE POST	(A)	30"	36"	36"	42"
	(B)	36"	42"	42"	48"
	(C)	10"	12"	12"	14"

WIRE SIZE AND HEIGHT OF FABRIC			
SPECIFIED DIAMETER			HEIGHT OF FABRIC INCHES
INCHES	MIN. GAGE	MESH INCHES	
0.120	11	2	36 - 42
0.148	9	2	48 - 96

LEGEND

- ① FABRIC
- ② END, CORNER OR PULL POST
- ③ LINE POST
- ④ GATE POST
- ⑤ BRACE
- ⑥ TRUSS ROD
- ⑦ GATE FRAME
- ⑧ STRETCHER BAR 1/4" X 3/4" PLATE
- ⑨ STRETCHER BAR BAND
- ⑩ END OR CORNER CLAMP
- ⑪ TENSION WIRE
- ⑫ FABRIC TIES
- ⑬ ONE-HALF FABRIC HEIGHT OR AS RECOMMENDED BY MANUFACTURER
- ⑭ BARBED WIRE

- GENERAL NOTES:
- WEIGHTS OF MATERIALS SHOWN IN TABLE ARE FOR ASTM F 1043, GROUP 1A. SIZES SHOWN ARE FOR STEEL AND ALUMINUM. EQUIVALENT ASTM F 1043 ALTERNATIVES MAY BE USED.
 - PULL POSTS SHALL BE USED AT SHARP BREAKS IN VERTICAL GRADE OR AT APPROXIMATE 300' CENTERS ON STRAIGHT RUNS OR AS DIRECTED BY THE ENGINEER.
 - DRILLED HOLES IN SOLID ROCK SHALL PROVIDE A DIAMETER OF NOT LESS THAN 2" GREATER THAN THE MAXIMUM TRANSVERSE DIMENSION OF THE POST SECTION.
 - ALL POSTS SHALL HAVE PROVISIONS TO SECURELY HOLD THE TOP TENSION WIRE IN POSITION AND ALLOW FOR REMOVAL AND REPLACEMENT OF A POST WITHOUT DAMAGING THE TOP TENSION WIRE.
 - THE MESH SIZE SHALL BE 2 INCHES ± 1/8 IN. MEASURED IN EITHER DIRECTION AS THE MINIMUM CLEAR DISTANCE BETWEEN THE WIRES FORMING THE PARALLEL SIDES OF THE MESH.
 - THE AGGREGATE MOW STRIP SHALL RUN THE ENTIRE LENGTH OF THE FENCELINE AND SHALL BE SURFACED WITH 4" OF WELL-GRADED CRUSHED ROCK AGGREGATE. GEOTEXTILE MEMBRANE SHALL BE INSTALLED UNDER THE AGGREGATE. MEMBRANE SHALL BE NON-WOVEN POLYPROPYLENE FIBERS TO A MINIMUM DENSITY OF 8oz PER SY. TOP OF ROCK SHALL BE BETWEEN 0" TO 1" FROM THE BOTTOM OF THE CHAIN-LINK FABRIC. THIS WORK SHALL BE INCIDENTAL TO THE FENCE PAY ITEM.
 - ALL POSTS SHALL BE ROUND AND SHALL BE SET IN CONCRETE WITH 1 FOOT OF COMPACTED SOIL ABOVE THE CONCRETE.
 - THE MAXIMUM GAP ALLOWED WHERE THE FENCE ABUTS BUILDINGS, AT GATE AND HINGE CLOSURE POSTS, AT CENTER OF DOUBLE GATES, AND AT THE BOTTOM OF GATES SHALL BE 3" OR LESS.
 - THE PCC PAD AT GATES SHALL BE INCIDENTAL TO THE GATE PAY ITEM.



MINIMUM SIZE FOR FENCE HARDWARE			
	WIDTH	SIZE (IN.)	LBS./FT.
② END CORNER OR PULL POST	N/A	31/2 DIA.	9.10
③ LINE POST	N/A	2" DIA.	3.65
④ GATE POST (SINGLE GATE OR 1 LEAF OF DOUBLE)	1 6"	21/2 DIA.	5.79
	1 13"	31/2 DIA.	9.10
	1 18"	6 DIA.	18.97
	1 18"	8 DIA.	24.70
⑤ BRACE	N/A	11/4 DIA.	2.27
⑥ TRUSS ROD	N/A	3/8	-
⑦ GATE FRAME	N/A	11/2 DIA.	2.72

CHAIN-LINK FENCE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

CHAINED LINK FENCE

REVISOR BY CMT: DATE: 03-27-2015 EFFECTIVE: 02-01-2007 607.10V 1 1

CMT

1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

WELLNER ARCHITECTS, INC.

1627 MAIN STREET, #100
KANSAS CITY, MO 64108

olsson

1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

STATE OF MISSOURI
TYLER G. HORN
NUMBER
PE-2018000214
PROFESSIONAL ENGINEER

SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO.: 47732472
CAD DWG FILE: FENCING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
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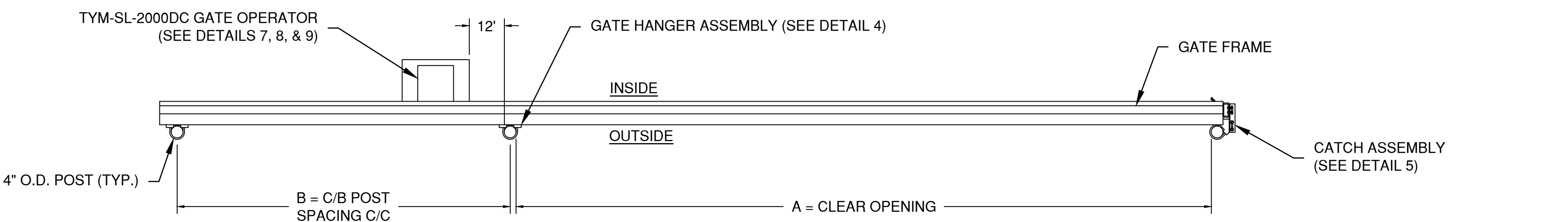
SHEET TITLE

FENCING DETAILS

C132

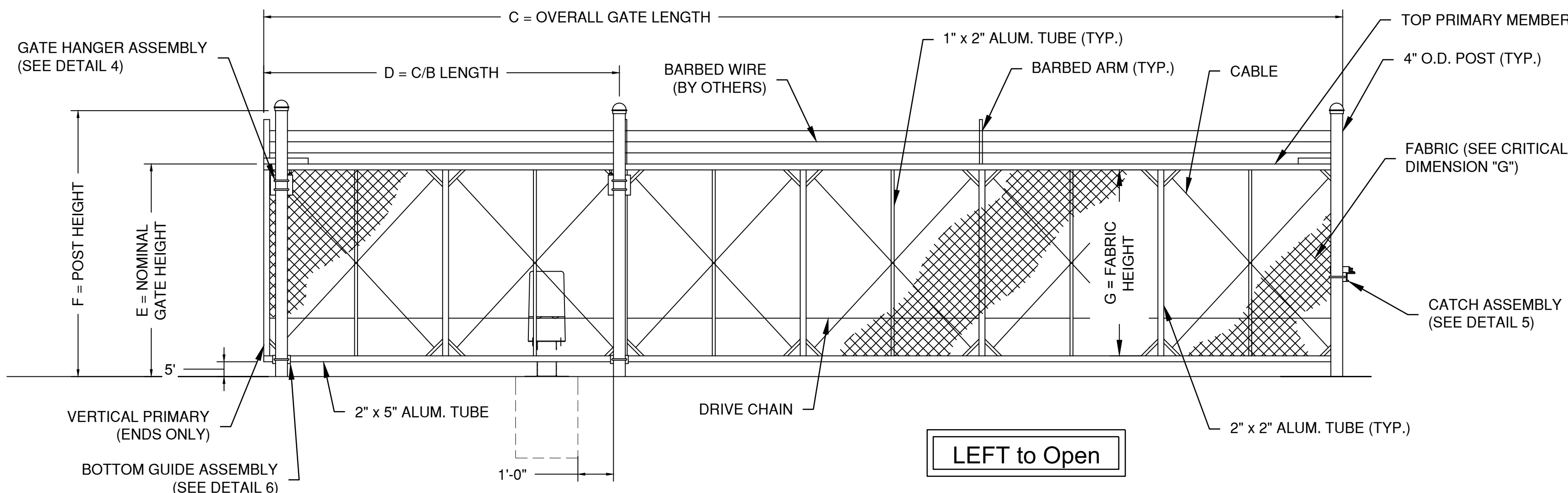
SHEET 043 OF 131

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Date: Wednesday, January 3, 2024 11:22:37



DETAIL 1: PLAN VIEW
NTS

LEFT to Open



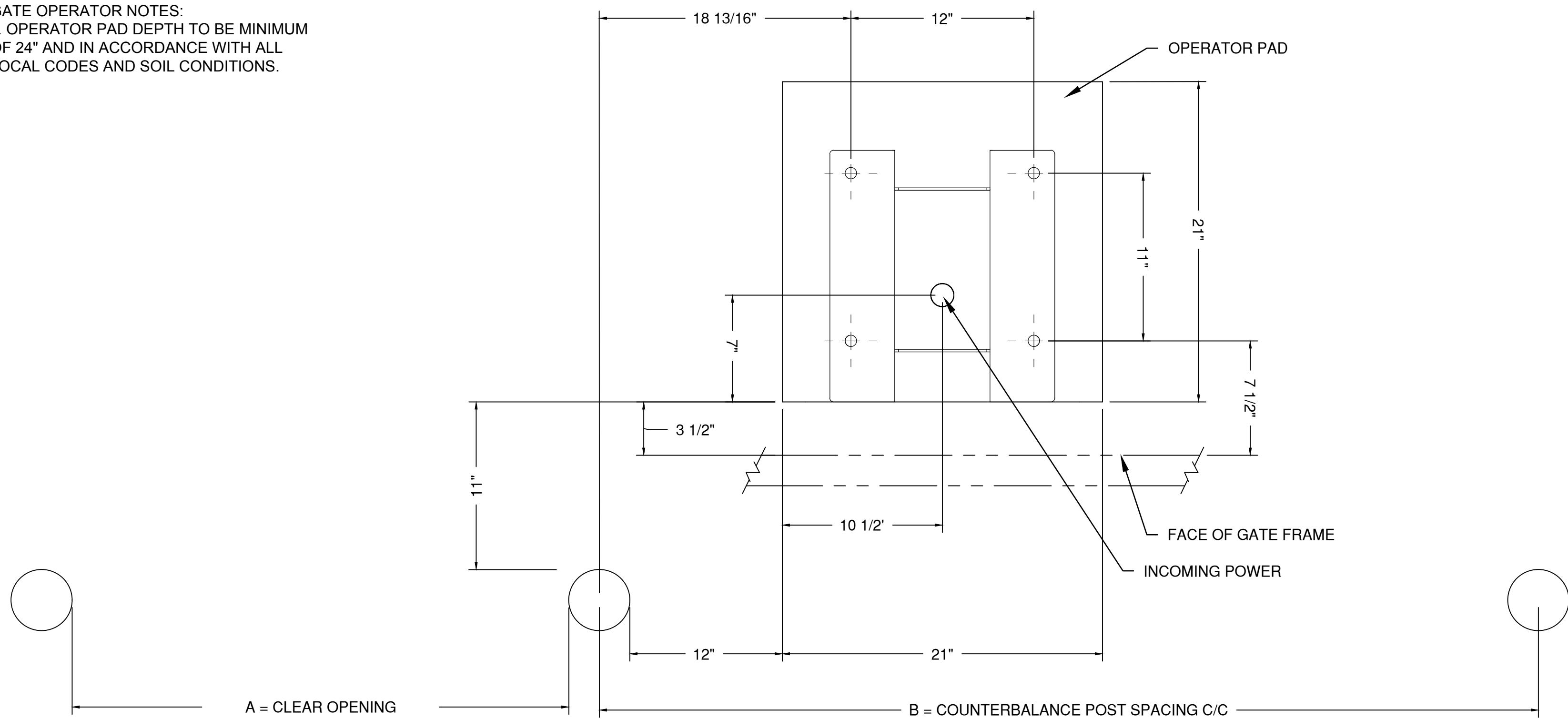
DETAIL 2: ELEVATION VIEW
NTS

LEFT to Open

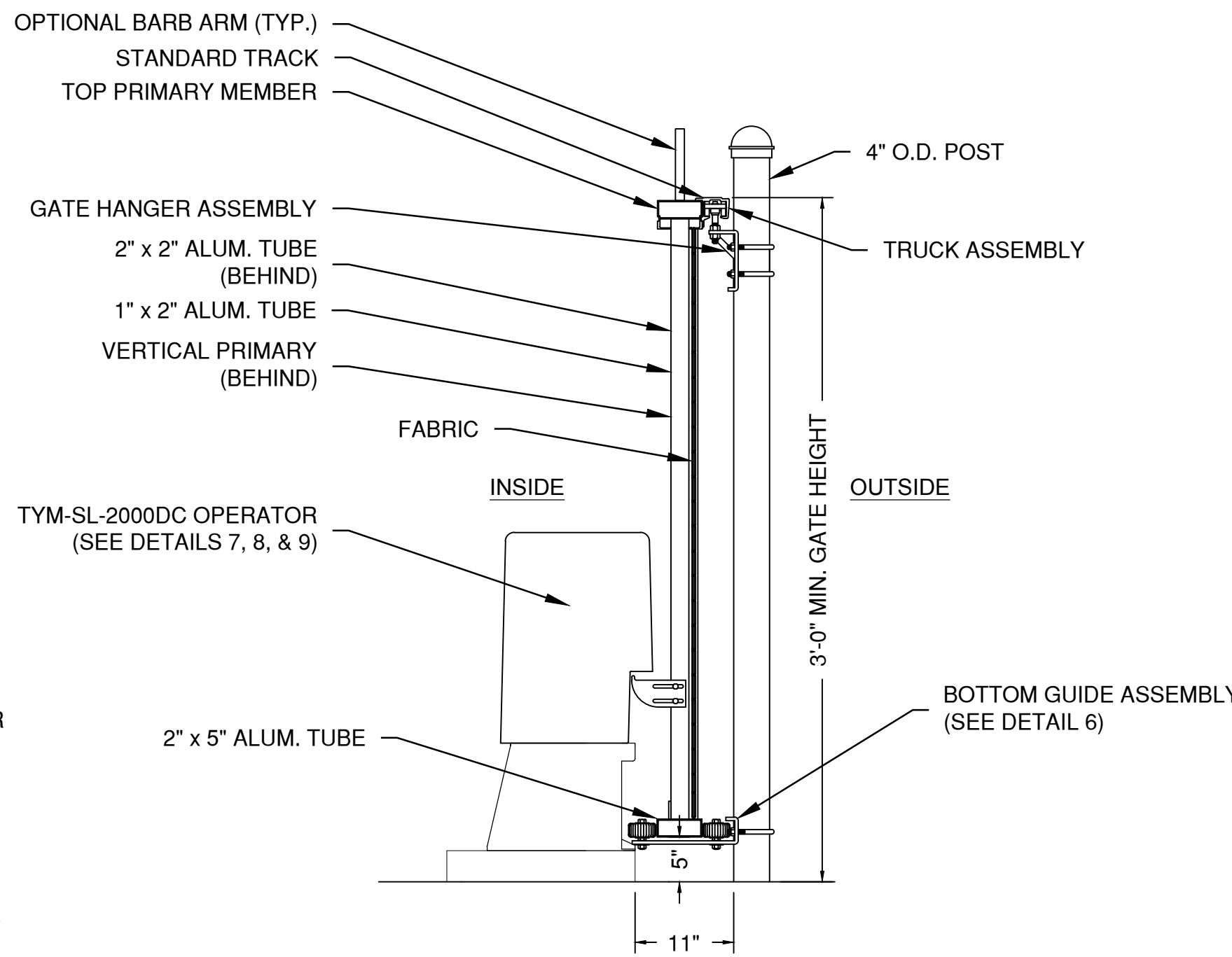
NOMINAL GATE SIZE		
18'W x 8'+1'h		
CRITICAL DIMENSION CHART		
A	CLEAR OPENING	18'-0"
B	COUNTERBALANCE POST SPACING C/C	8'-1"
C	OVERALL GATE LENGTH	27'-0"
D	COUNTERBALANCE LENGTH	9'-0"
E	NOMINAL GATE HEIGHT	8'-0"
F	POST HEIGHT	9'-6"
G	FABRIC HEIGHT	7'-0"

- NOTES:
1. ALL FITTINGS PROVIDED FOR 4" O.D. POSTS. OTHER SIZES ARE AVAILABLE UPON REQUEST.
 2. GATE ELEVATION IS VIEWED FROM OUTSIDE OF THE SECURE AREA LOOKING IN.
 3. BARB ARMS ARE OPTIONAL.
 4. THIS GENERIC DRAWING SHOWS A TYPICAL GATE. GATE MANUFACTURED MAY NOT BE EXACTLY AS SHOWN.
 5. GATE TO HAVE MILL FINISH.
 6. FOR GATES THAT REQUIRE TWO PIECE FABRICATION, A 5" ALUMINUM CHANNEL WILL BE SUBSTITUTED FOR THE 2" x 5" ALUMINUM TUBE.
 7. KNOX BOX TO BE INSTALLED AT ALL OPERABLE GATES, COORDINATE SIZE AND LOCATION WITH AHJ AND OWNER

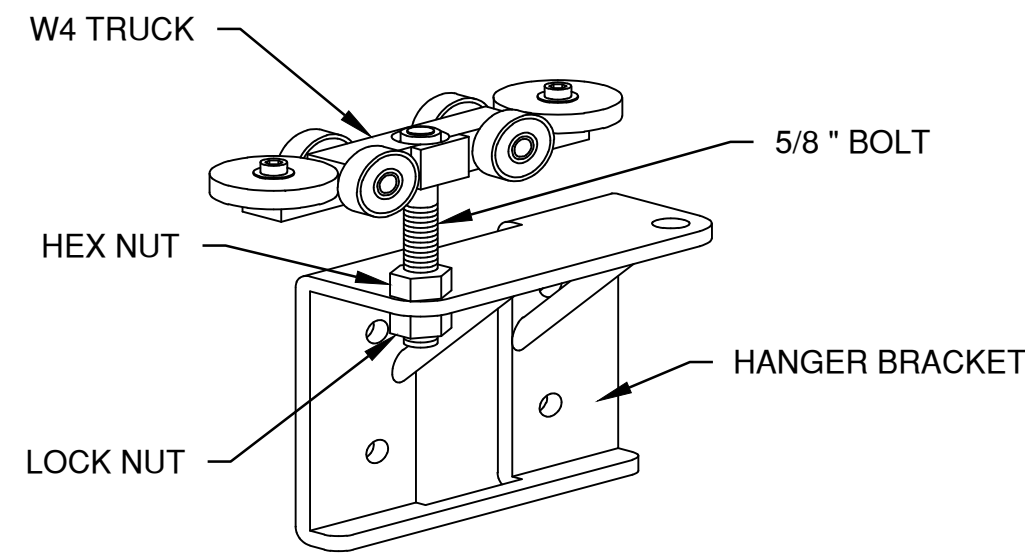
- GATE OPERATOR NOTES:
1. OPERATOR PAD DEPTH TO BE MINIMUM OF 24" AND IN ACCORDANCE WITH ALL LOCAL CODES AND SOIL CONDITIONS.



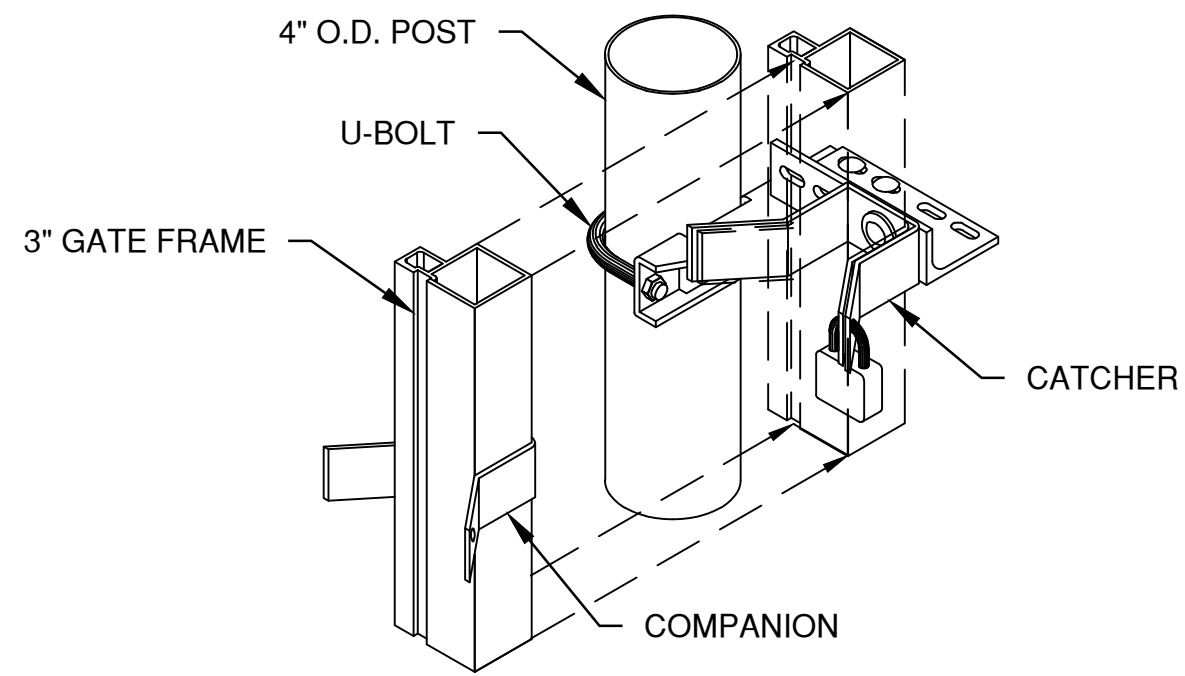
DETAIL 7: OPERATOR PAD LAYOUT PLAN
NTS



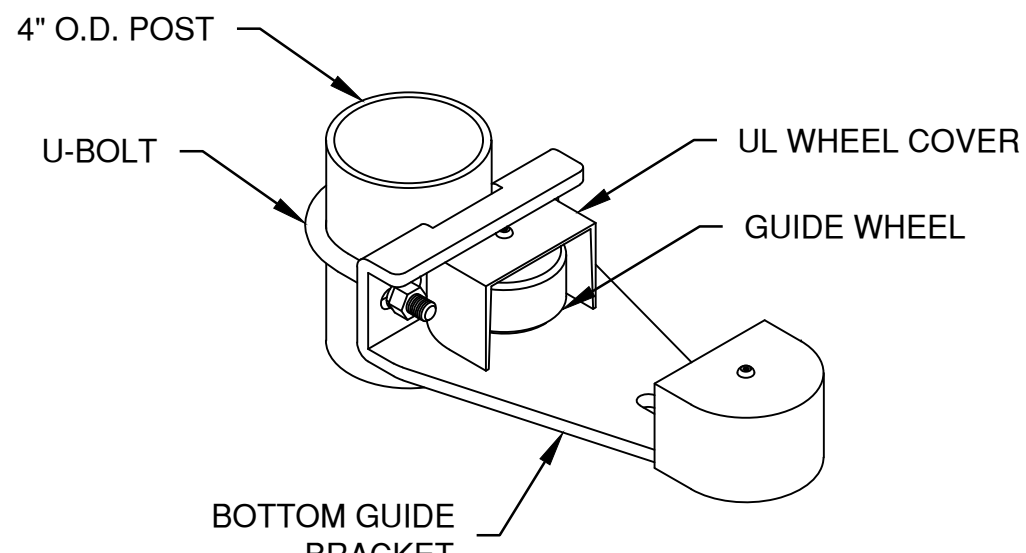
DETAIL 3: ASSEMBLY SECTION
NTS



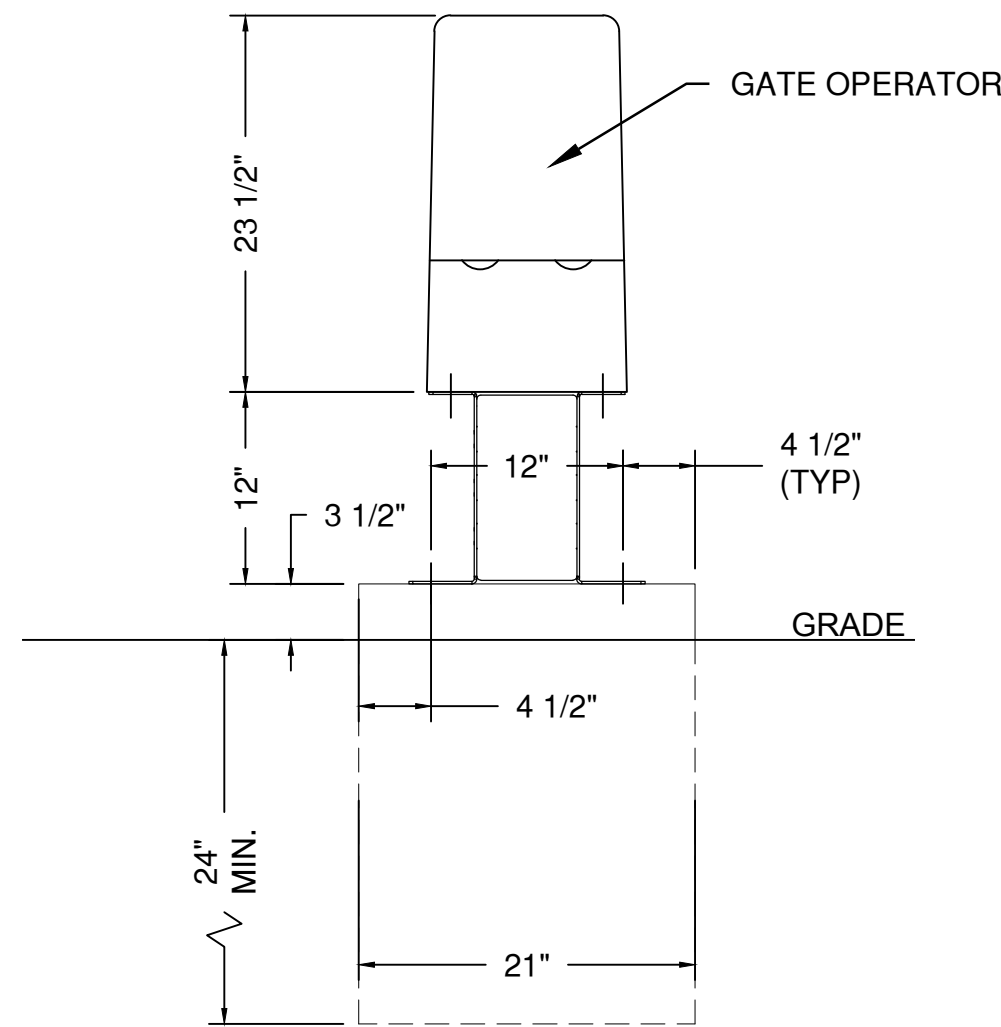
DETAIL 4: GATE HANGER
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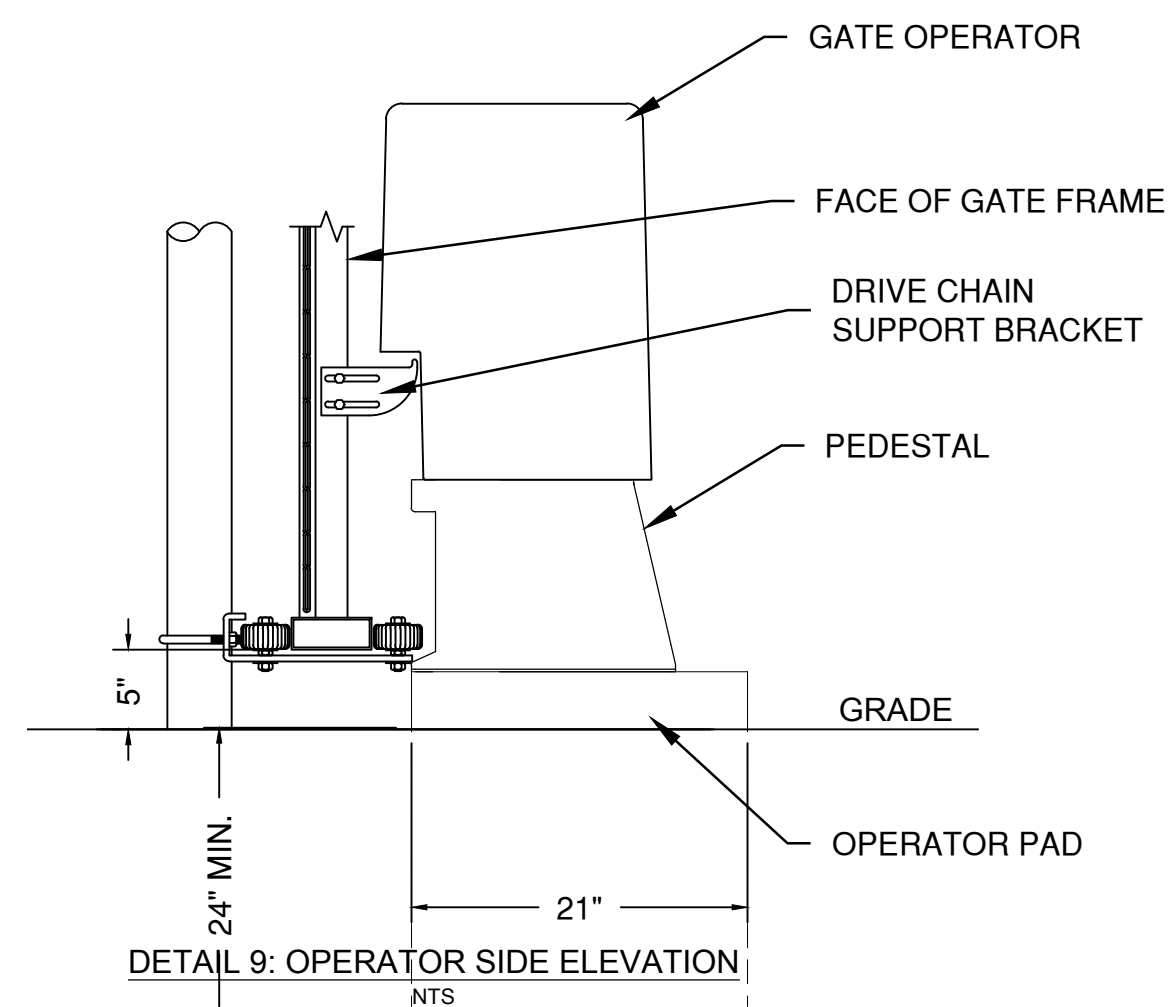
DETAIL 5: CATCH ASSEMBLY
NTS



DETAIL 6: BOTTOM GUIDE
NTS



DETAIL 8: OPERATOR FRONT ELEVATION
NTS



DETAIL 9: OPERATOR SIDE ELEVATION
NTS



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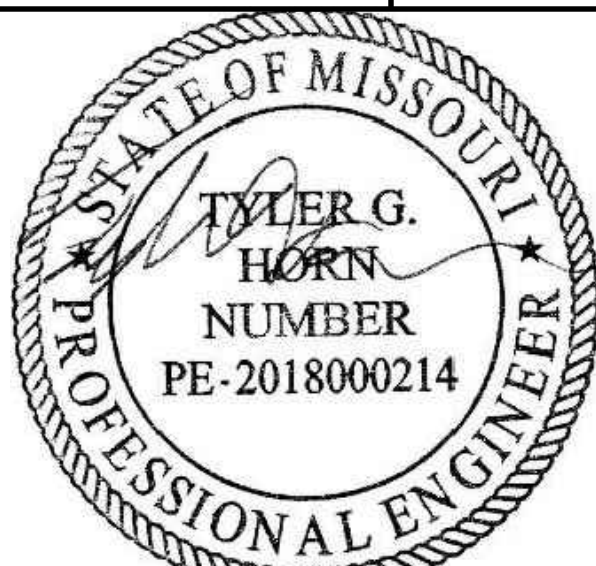
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: FENCING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
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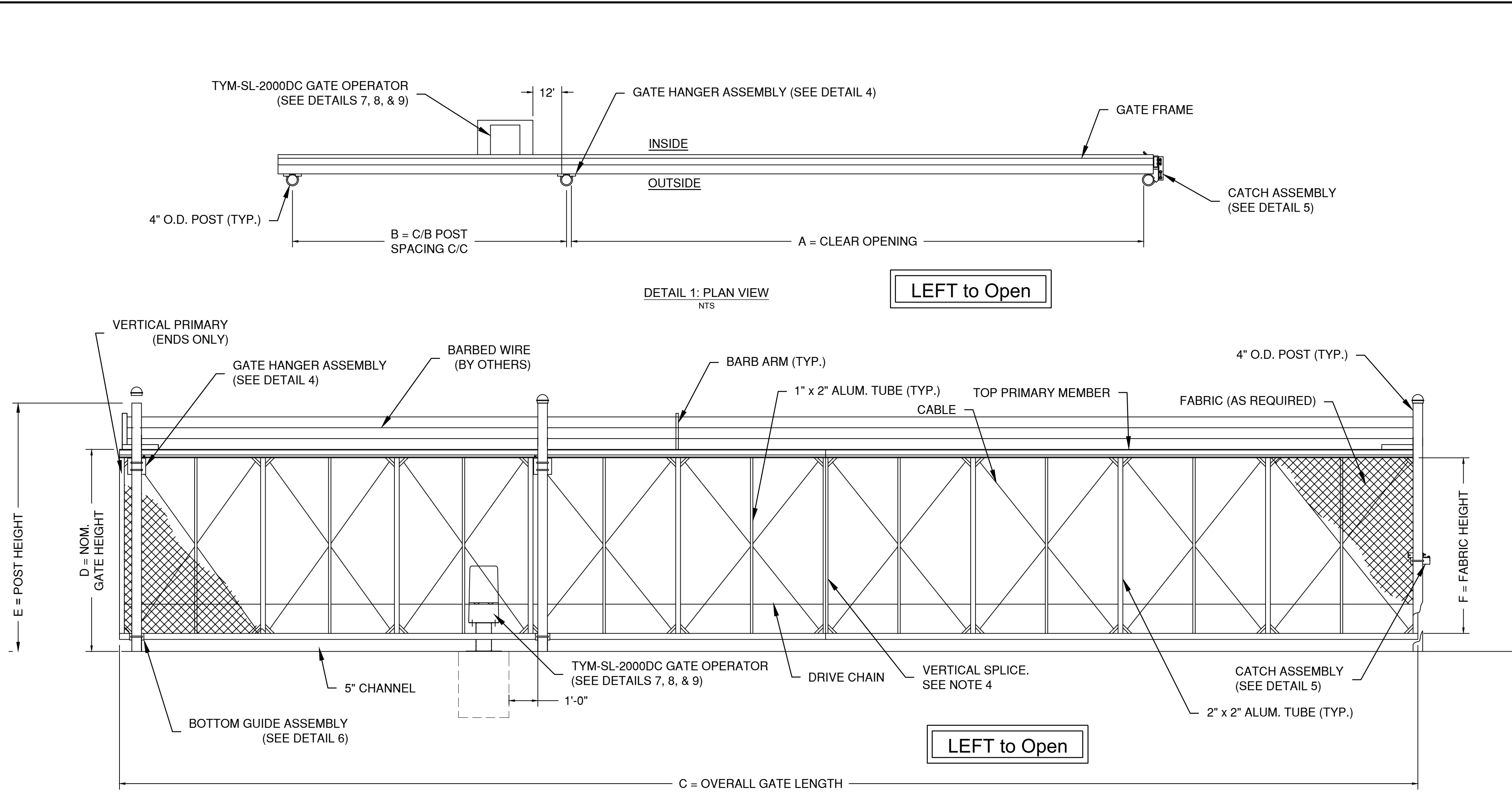
SHEET TITLE

SLIDING GATE DETAILS
SHEET 1

C133

SHEET 044 OF 131

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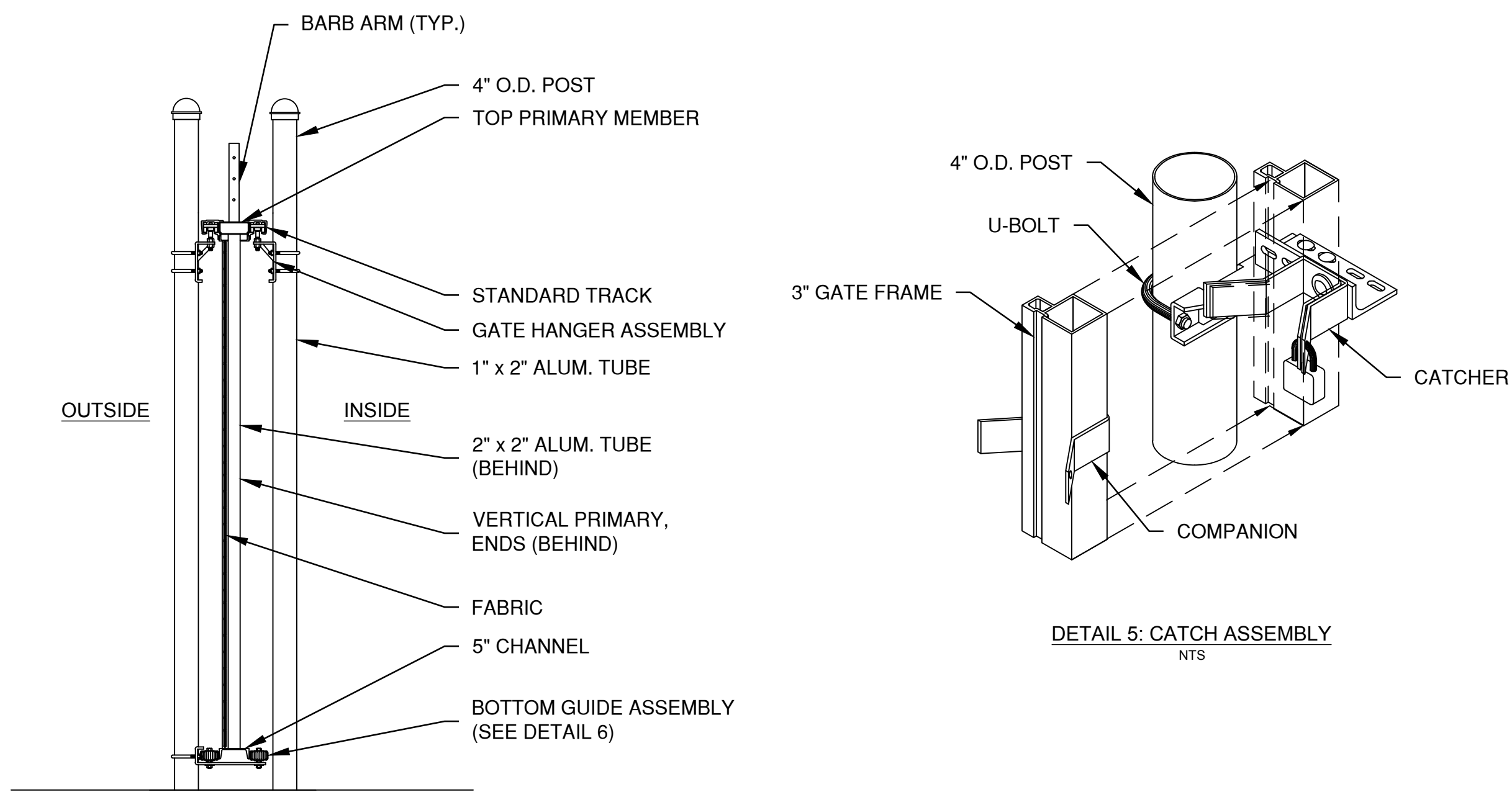
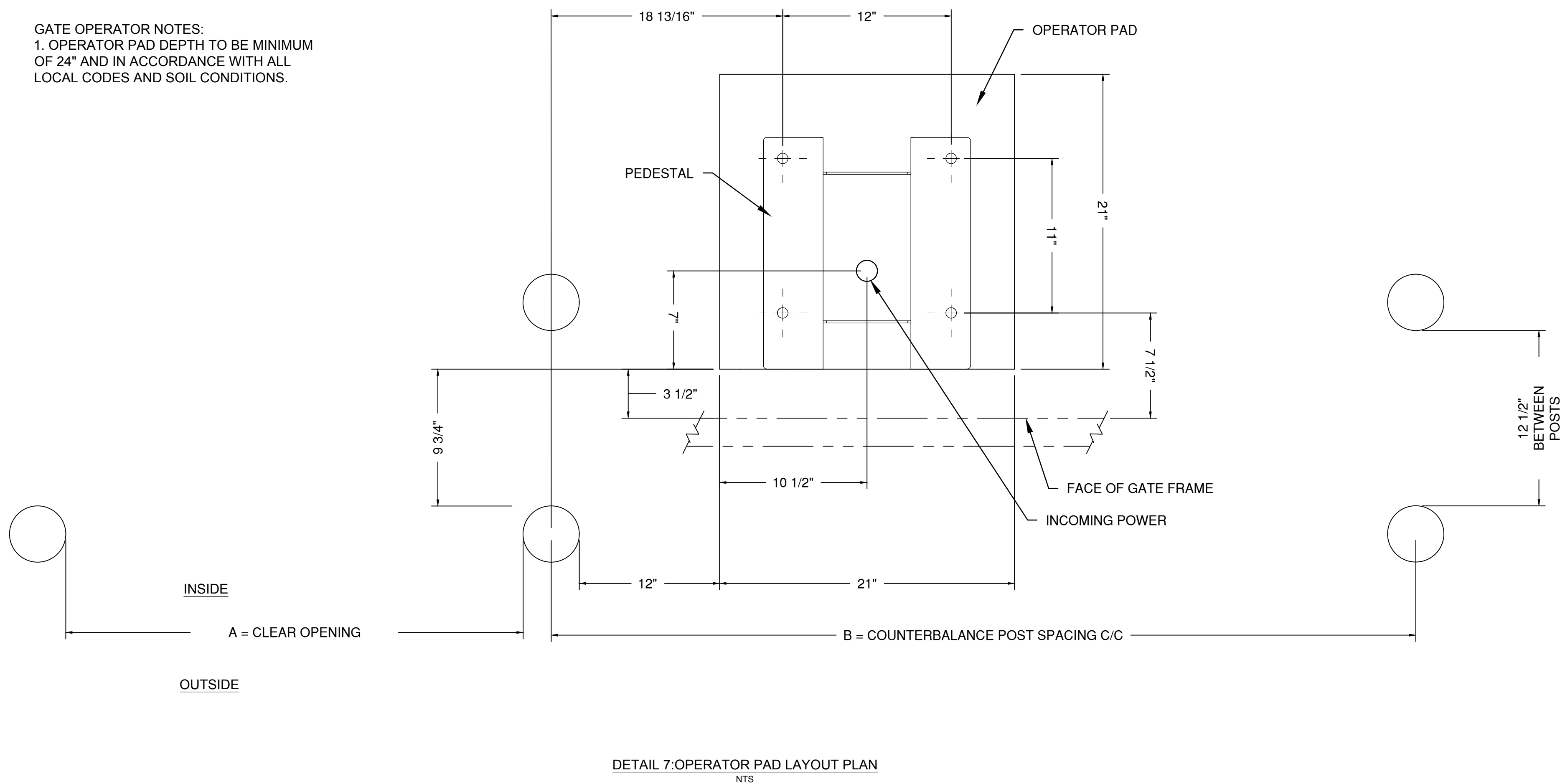
NOTES:
1. ALL FITTINGS PROVIDED FOR 4" O.D. POSTS.
OTHER SIZES ARE AVAILABLE UPON REQUEST.
2. BARB ARMS ARE OPTIONAL.
3. GATE TO HAVE MILL FINISH.
4. FOR GATES THAT REQUIRE TWO PIECE FABRICATION, A 5" ALUMINUM CHANNEL WILL BE SUBSTITUTED FOR THE 2" x 5" ALUMINUM TUBE, AND A VERTICAL SPLICE WILL BE ADDED.

5. KNOX BOX TO BE INSTALLED AT ALL OPERABLE GATES. COORDINATE SIZE AND LOCATION WITH AHJ AND OWNER

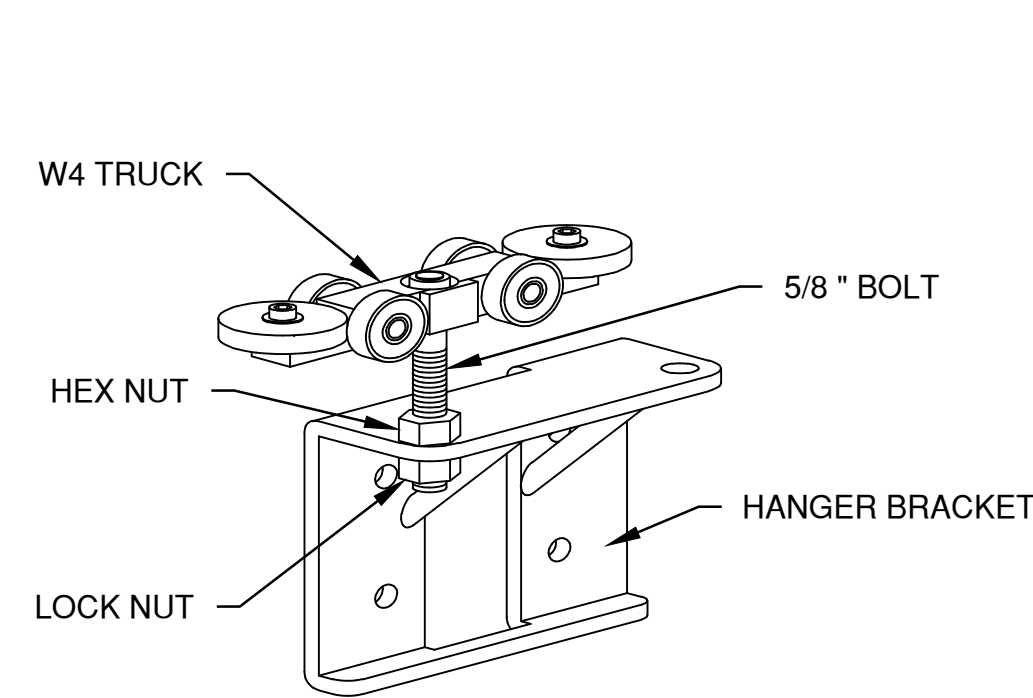
DETAIL 2: ELEVATION VIEW
NTS

NOMINAL GATE SIZE		
32'W x 8'+1'h		
CRITICAL DIMENSION CHART		
A	CLEAR OPENING	32'-0"
B	POST SPACING C/C	15'-1"
C	OVERALL GATE LENGTH	48'-0"
D	NOMINAL GATE HEIGHT	8'-0"
E	POST HEIGHT	9'-6"
F	FABRIC HEIGHT	7'-0"

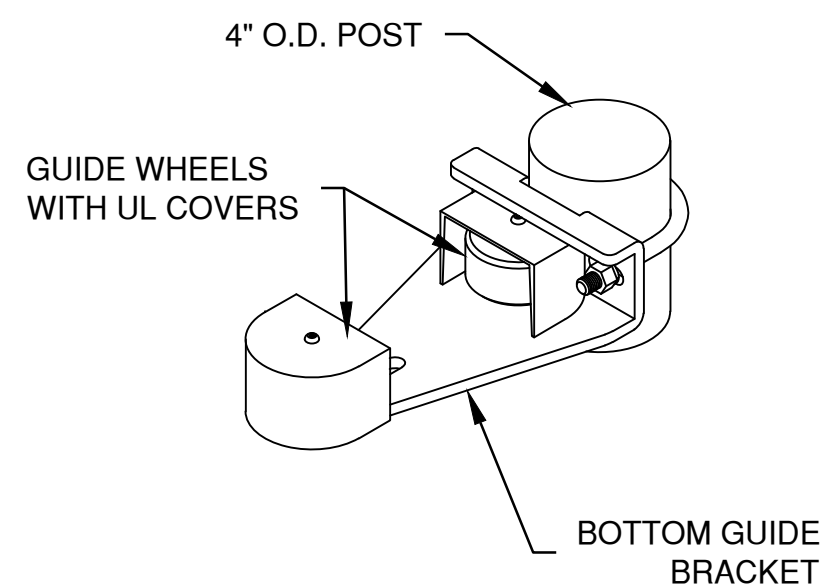
GATE OPERATOR NOTES:
1. OPERATOR PAD DEPTH TO BE MINIMUM OF 24" AND IN ACCORDANCE WITH ALL LOCAL CODES AND SOIL CONDITIONS.



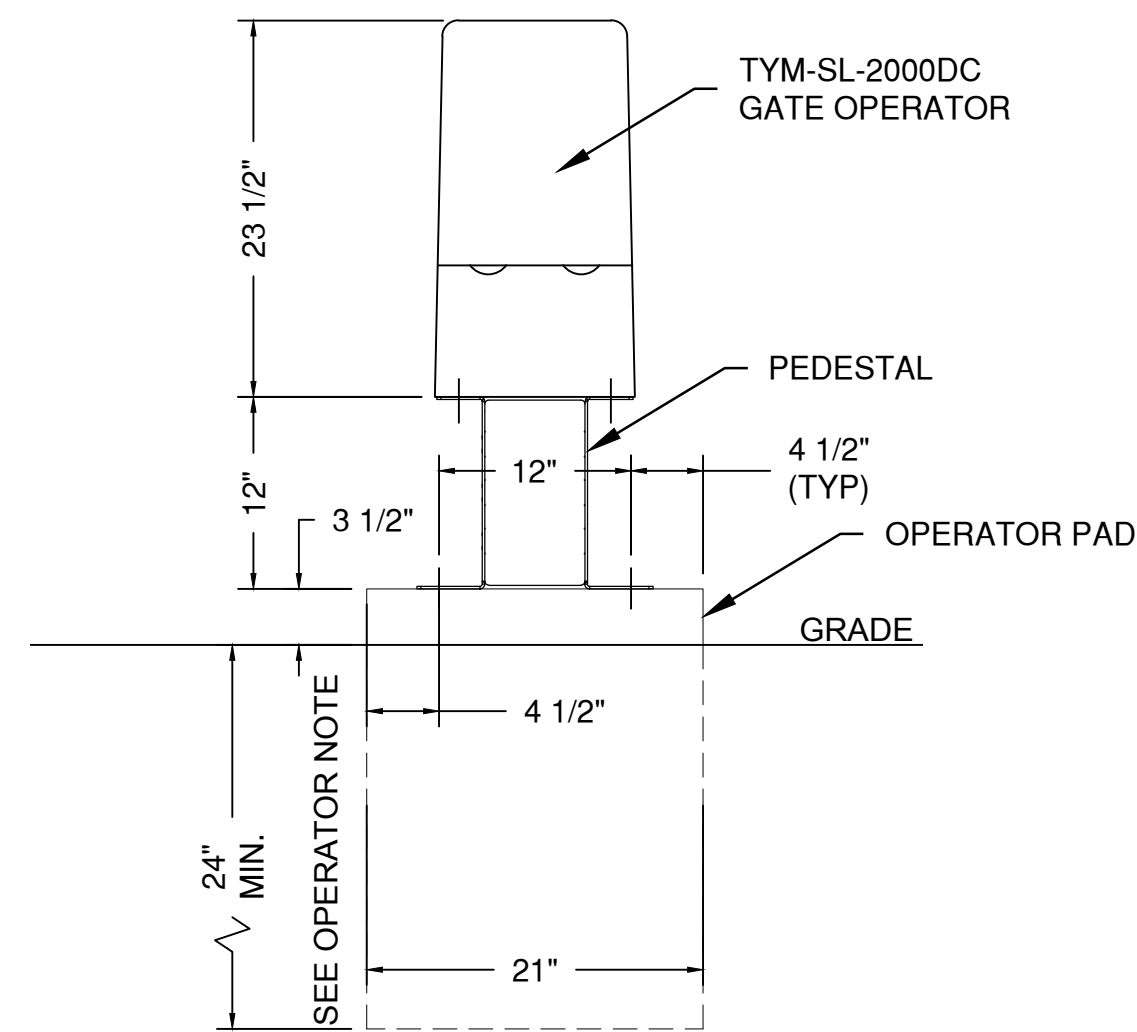
DETAIL 3: ASSEMBLY SECTION
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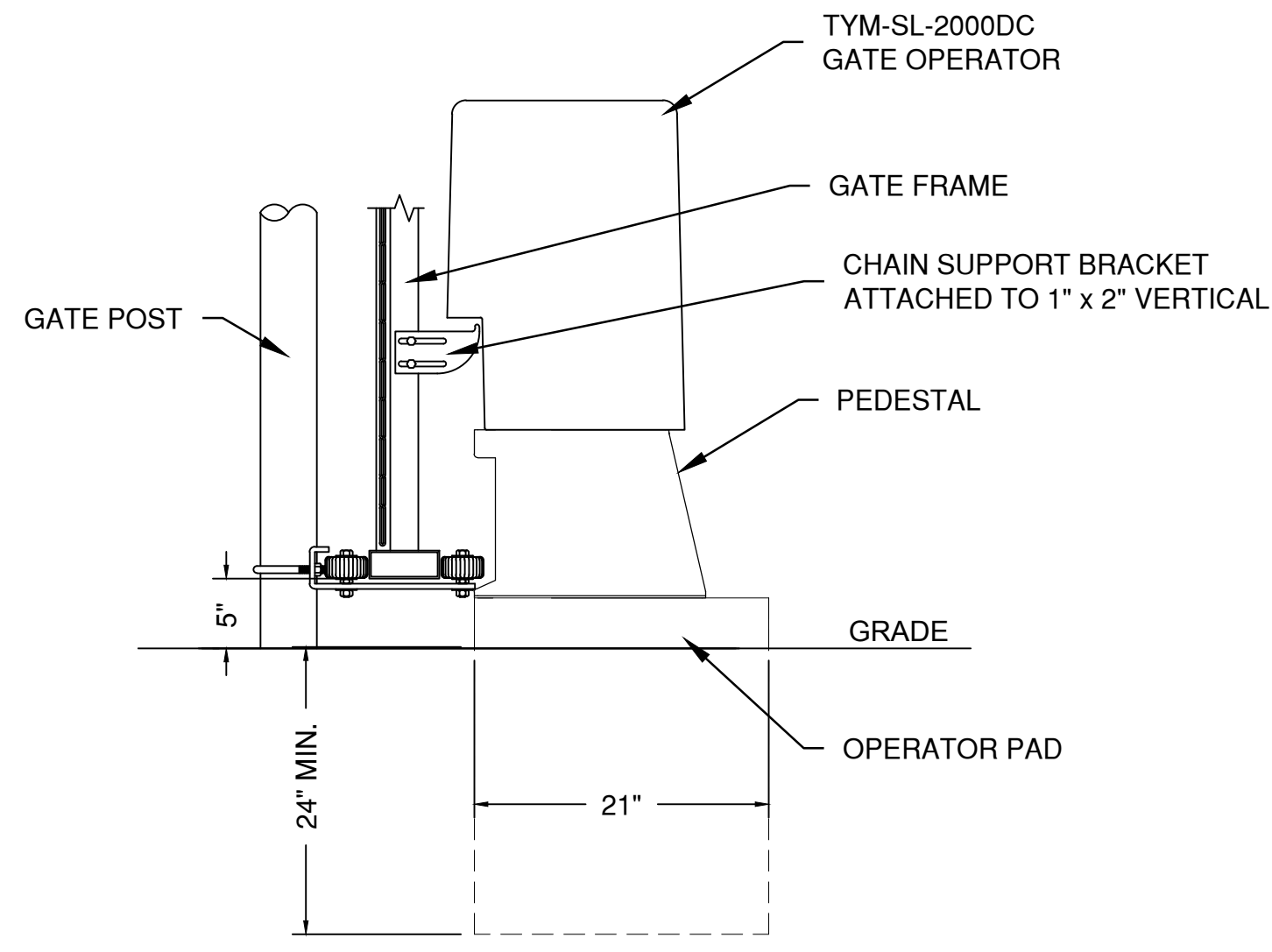
DETAIL 4: GATE HANGER
NTS



DETAIL 6: BOTTOM GUIDE
NTS



DETAIL 8: OPERATOR FRONT ELEVATION
NTS



DETAIL 9: OPERATOR SIDE ELEVATION
NTS



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



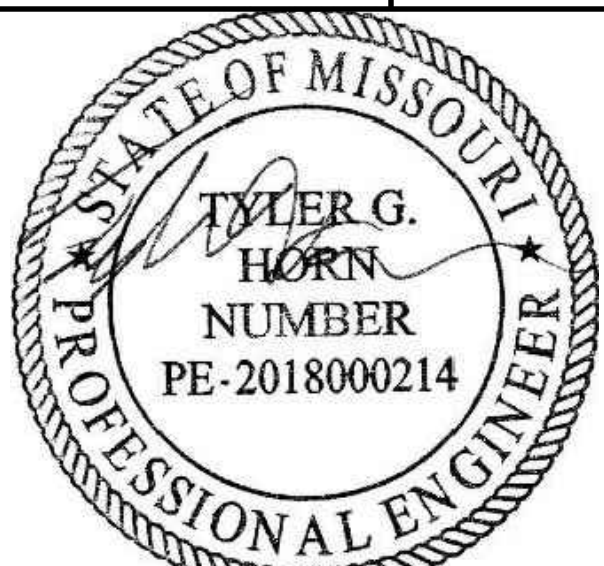
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: FENCING PLAN
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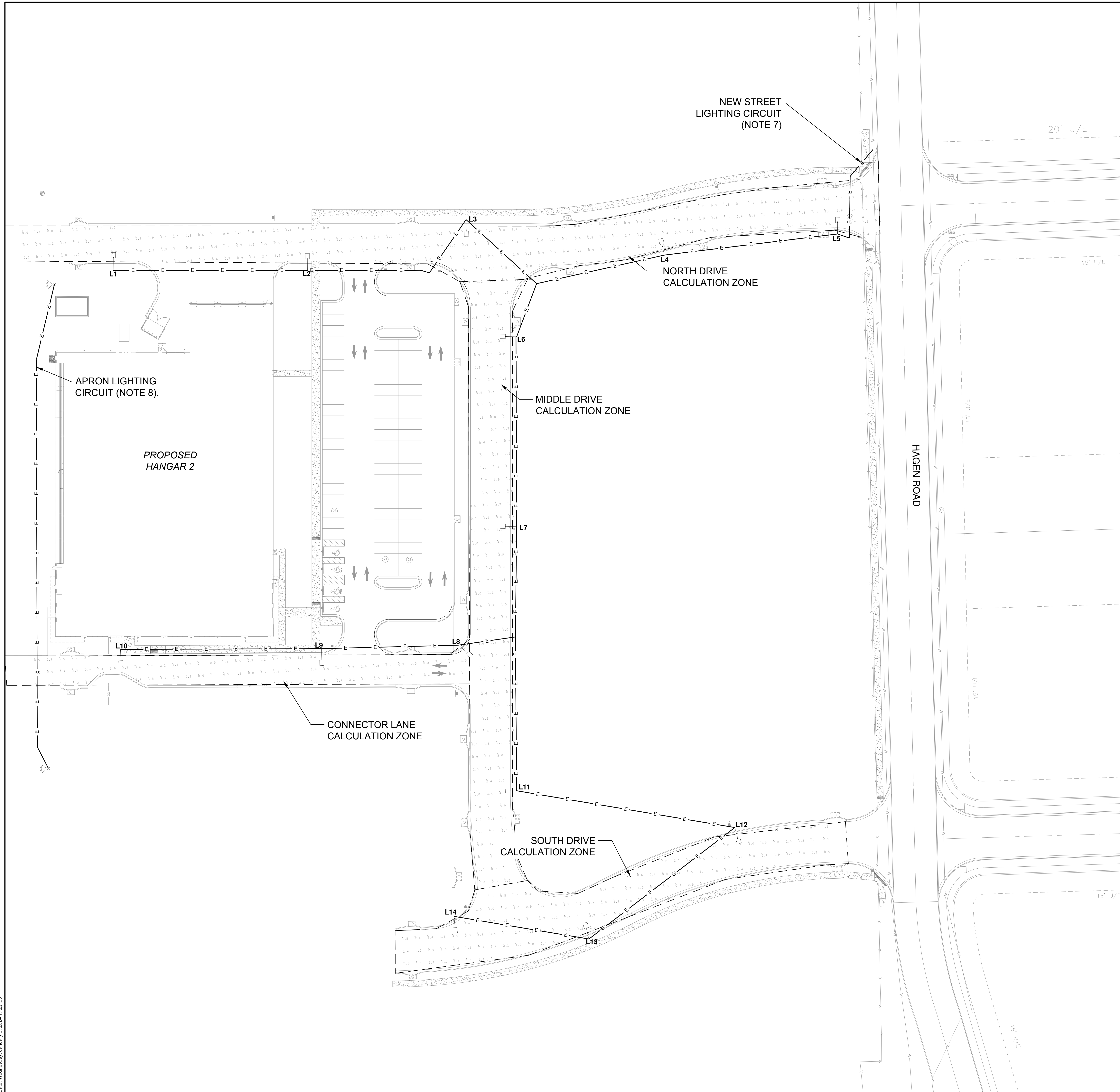
SHEET TITLE

SLIDING GATE DETAILS
SHEET 2

C134

SHEET 045 OF 131

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Date: Wednesday, January 3, 2024 11:27:35



ELECTRICAL LEGEND

- NEW LUMINAIRE WITH 3' MAST ARM ON 25' LIGHT POLE
- PHOTOMETRIC CALCULATION ZONE BOUNDARY
- NEW ELECTRICAL STREET LIGHTING CIRCUIT
- EXISTING APRON LIGHT POLE

LIGHTING NOTES

Acceptable Luminaire Manufacturers:
Manufacturer Model No. Distribution
Cooper Lighting VERD-M-CA3-150-722-U-T2 Type II

- LED LUMINAIRES SHALL BE OF THE MANUFACTURER AND TYPE DENOTED ABOVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND WIRING NEW LIGHT POLES. THE LIGHT POLES SHALL MEET THE FOLLOWING CRITERIA:
 - 25' LIGHT MOUNTING HEIGHT
 - 3' MAST ARMS. MAST ARMS SHALL ALLOW PROPER CONNECTION AND MOUNTING OF LIGHT FIXTURES. THOSE FIXTURES SHALL BE ACUTY BRANDS AUTOBAHN FIXTURES AS INDICATED IN THE ACCEPTABLE LUMINAIRE MANUFACTURERS TABLE.
 - COLOR: BLACK
 - CONTRACTOR SHALL PROVIDE SUBMITTAL SUBJECT TO APPROVAL BY ENGINEER.
 - LIGHT POLE SHALL BE INSTALLED ON A CONCRETE BASE AS SHOWN ON THE ELECTRICAL DETAILS PLAN SHEET.
- LIGHT LEVELS FOR EACH PORTION OF THE PROJECT AREA SHALL BE IN ACCORDANCE WITH THE FOLLOWING FIXTURE ILLUMINANCE TABLE.

PROPOSED LIGHT EMITTING DIODE (LED) FIXTURE ILLUMINANCE (Fc) WITH 0.7 LLF					
CALCULATION ZONE	AVERAGE	MAXIMUM	MINIMUM	AVG/MIN	MAX/MIN
North Drive	1.75	4.2	0.4	4.38	10.5
Middle Drive	1.9	4.1	0.5	3.8	8.2
South Drive	1.88	4.2	0.4	4.7	10.5
Connector Lane	1.65	4	0.4	4.13	10

ELECTRICAL NOTES

- TO FEDERAL, STATE, AND LOCAL STATUTES. NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.
- ALL STREET LIGHTING FIXTURES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL SECTION 5800.
- STREET LIGHTING CIRCUITS SHALL BE FED FROM EXISTING EVERGY UTILITY SOURCE.
- STREET LIGHTING CIRCUITS SHALL BE 2 X #6 XLP-USE, #12 GND IN 1" CONDUIT.
- EXTEND APRON LIGHTING CIRCUIT FROM NORTHERN APRON LIGHT TO POWER SOUTHERN APRON LIGHT. APRON LIGHTING CIRCUIT SHALL BE 2 X #4 XLP-USE, 1 X #6 GROUND IN UNIT DUCT. CONTRACTOR SHALL CONNECT NEW CIRCUIT GROUND CONDUCTOR TO EXISTING POLE GROUND LUG.
- ALL STREET LIGHT POLES MUST BE INSTALLED A MINIMUM OF 3' FROM THE CURB, WHERE APPLICABLE.



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KANSAS CITY, MO 64108



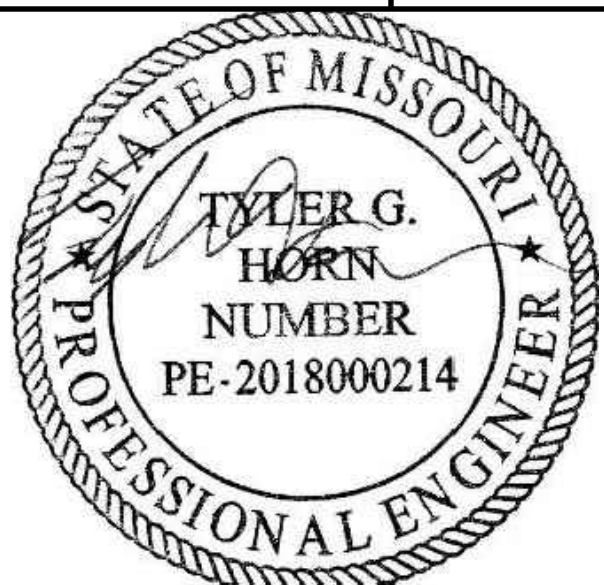
1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

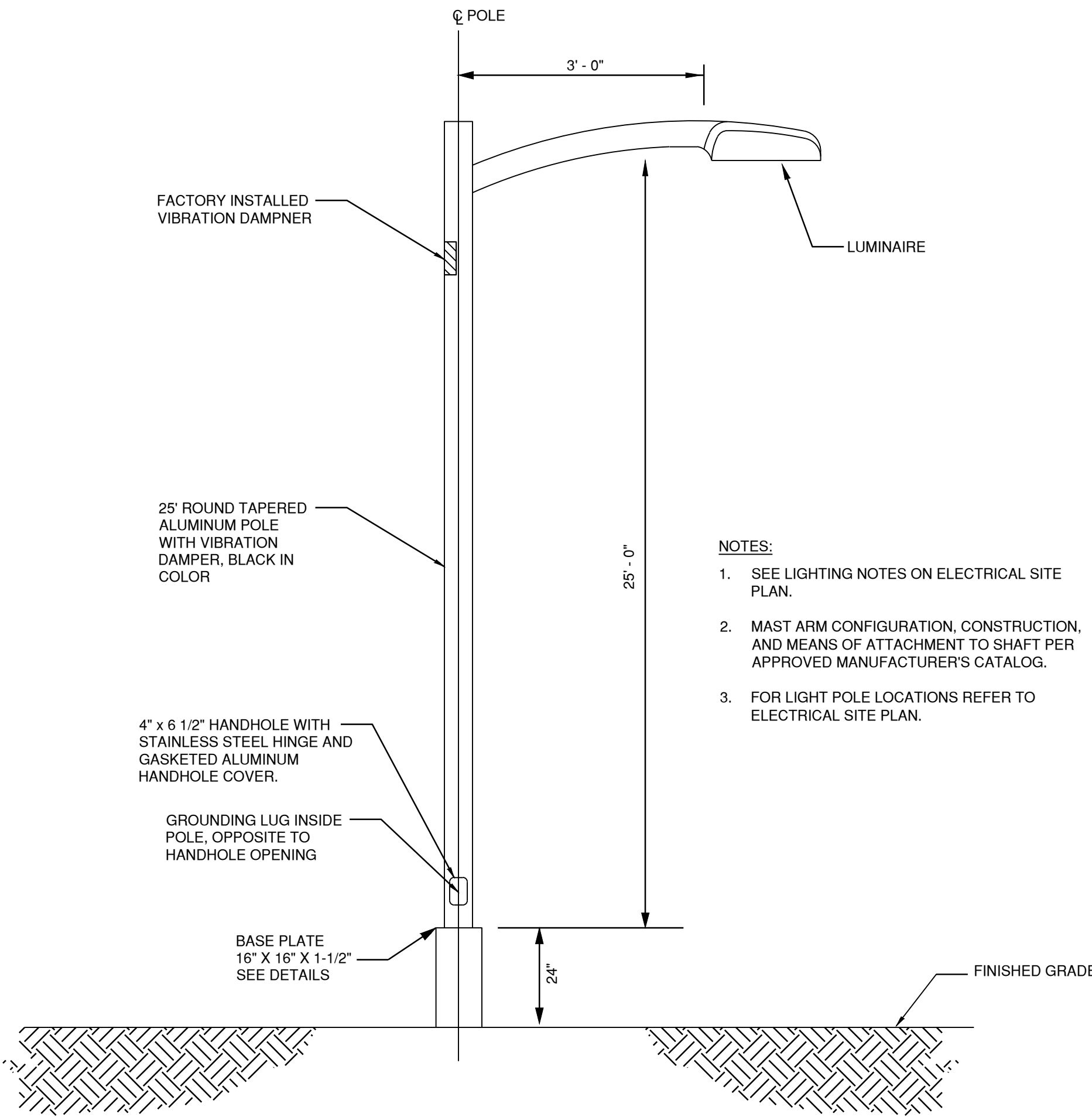
PROJECT NO.: 47732472
CAD DWG FILE: LIGHTING SITE PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
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SHEET TITLE

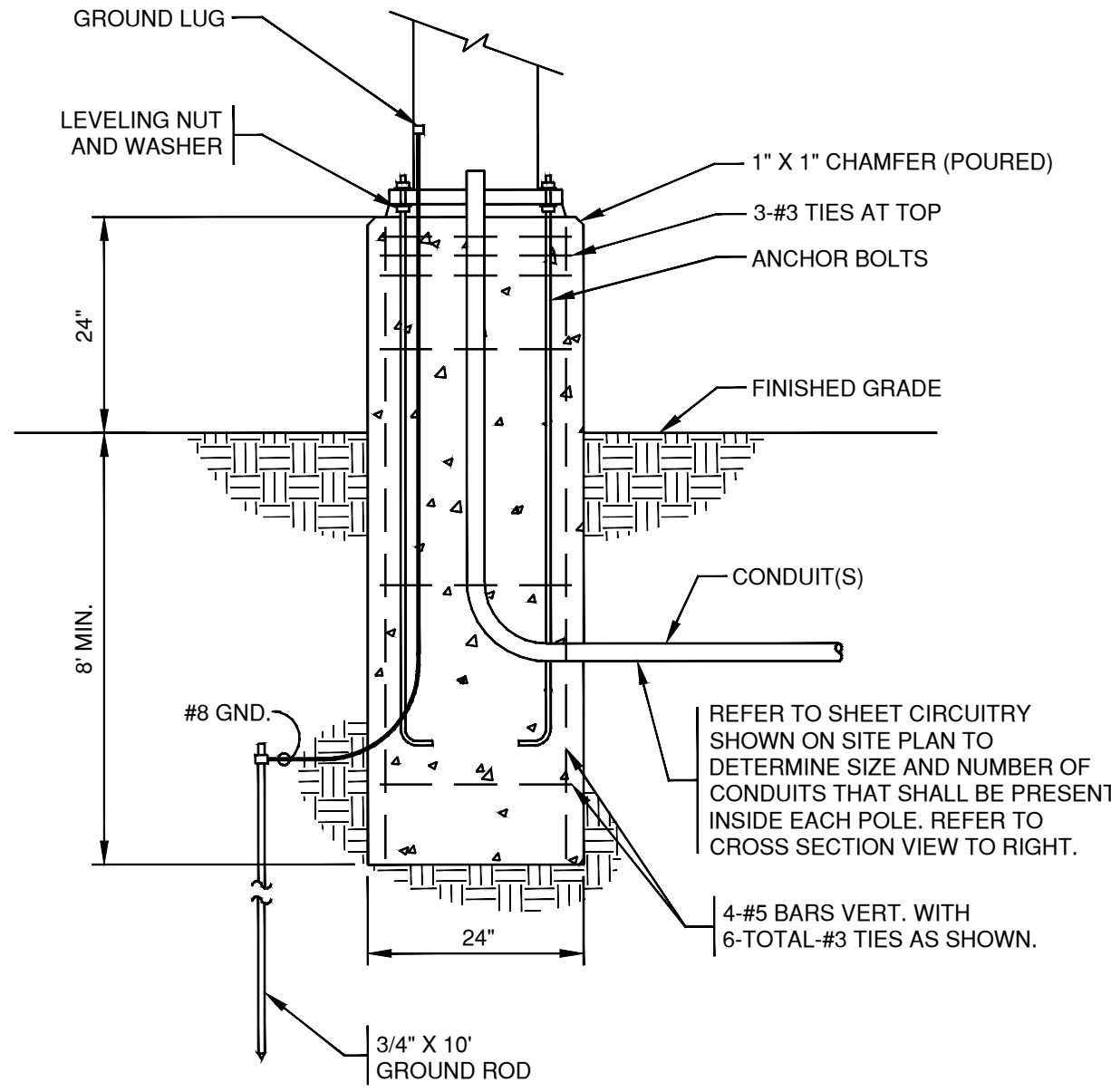
LIGHTING SITE PLAN

C135

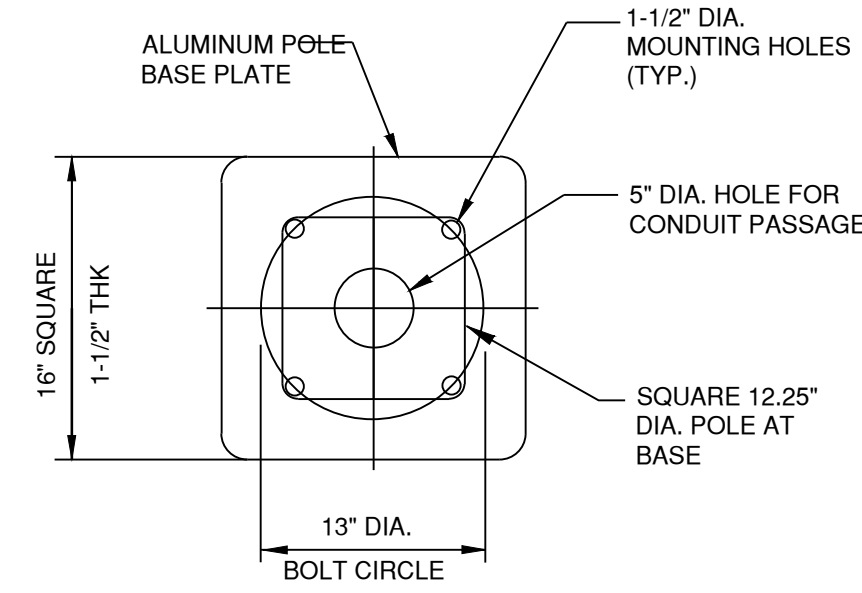
SHEET 046 OF 131



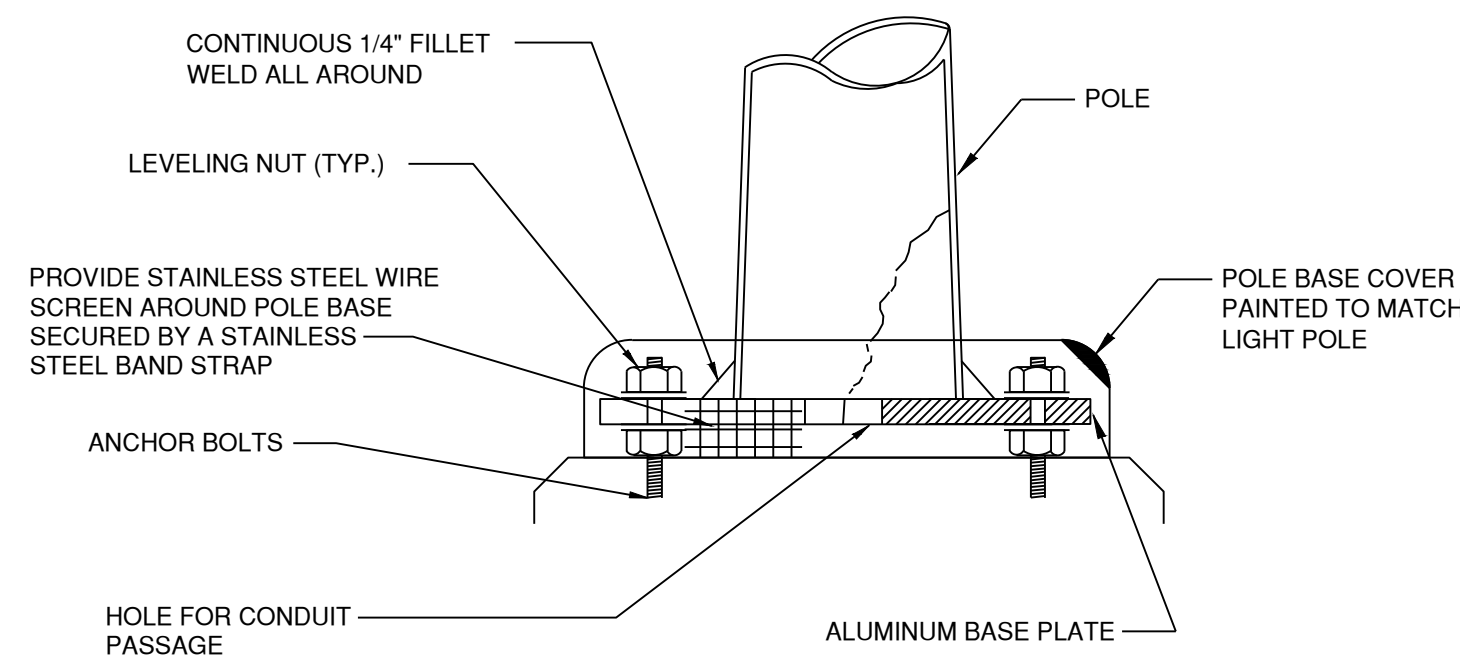
1 LIGHT POLE DETAIL
NOT TO SCALE



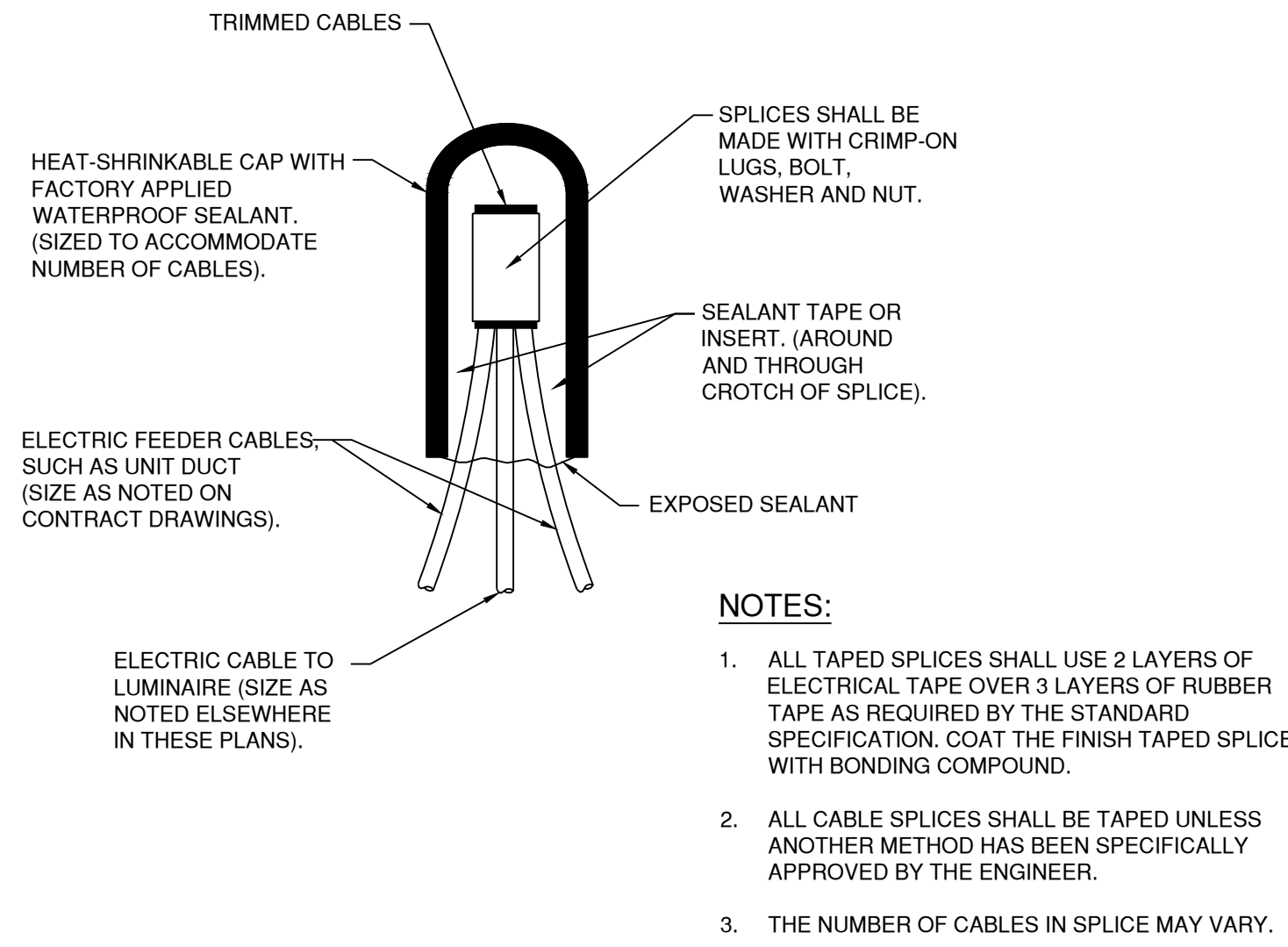
2 LIGHT POLE FOUNDATION DETAIL
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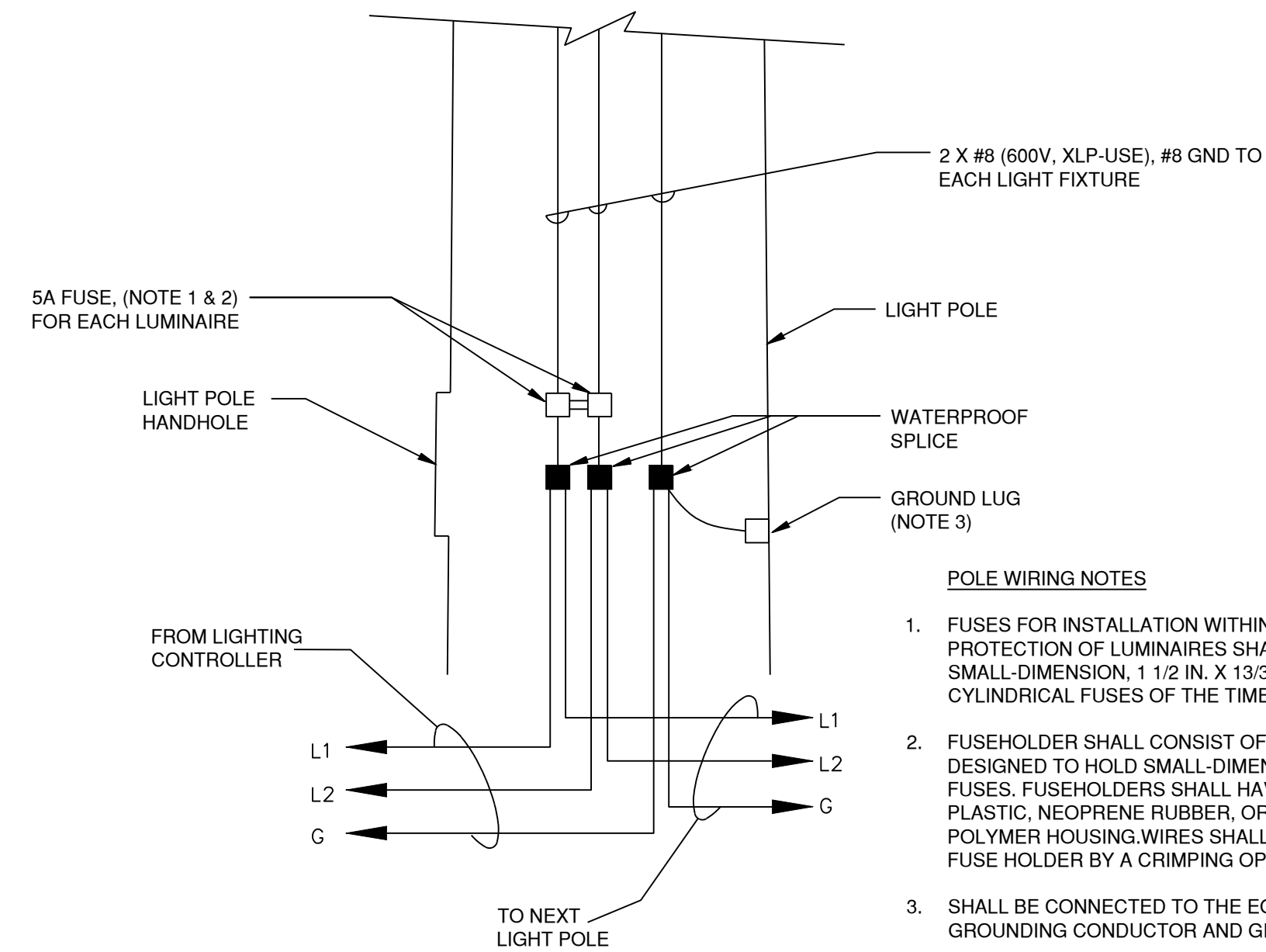
3 LIGHT POLE BASE DETAIL (PLAN)
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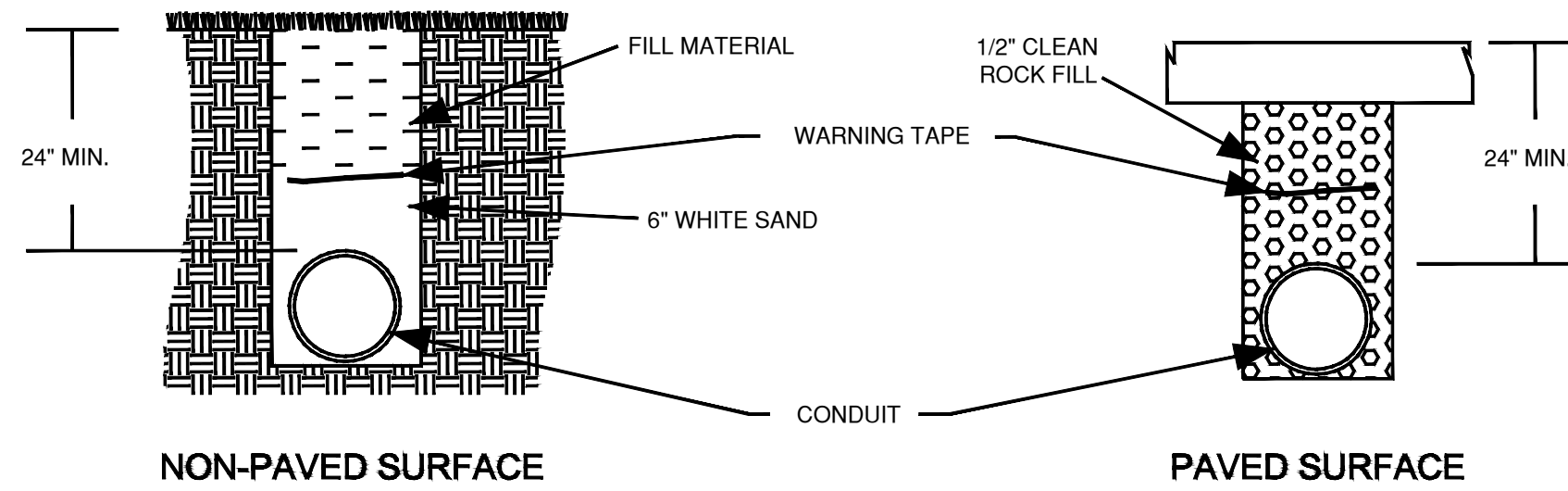
4 LIGHT POLE BASE DETAIL (SECTION)
NOT TO SCALE



5 TYPICAL CABLE SPlice DETAIL
NOT TO SCALE



6 TYPICAL POLE WIRING DETAIL
NOT TO SCALE



7 TRENCH AND CONDUIT DETAIL
NOT TO SCALE



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: LIGHTING SITE PLAN
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DRAWN BY: WLC
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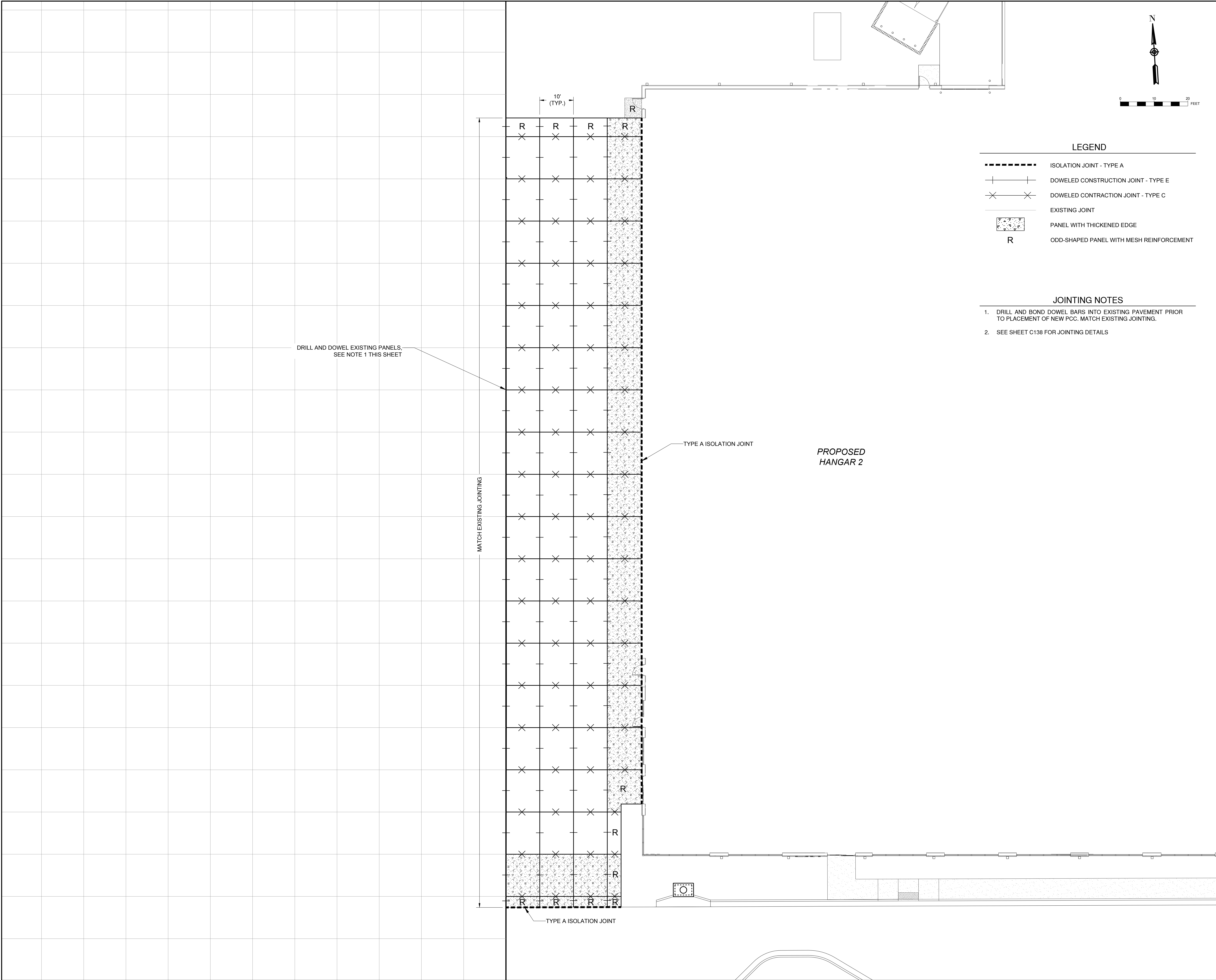
SHEET TITLE

SITE LIGHTING DETAILS

C136

SHEET 047 OF 131

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Date: Wednesday, January 3, 2024 11:28:07



LEGEND

- ISOLATION JOINT - TYPE A
- DOWELED CONSTRUCTION JOINT - TYPE E
- DOWELED CONTRACTION JOINT - TYPE C
- EXISTING JOINT
- PANEL WITH THICKENED EDGE
- ODD-SHAPED PANEL WITH MESH REINFORCEMENT

JOINTING NOTES

- DRILL AND BOND DOWEL BARS INTO EXISTING PAVEMENT PRIOR TO PLACEMENT OF NEW PCC. MATCH EXISTING JOINTING.
- SEE SHEET C138 FOR JOINTING DETAILS

1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

1627 MAIN STREET, #100
KANSAS CITY, MO 64108

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

SEALING DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

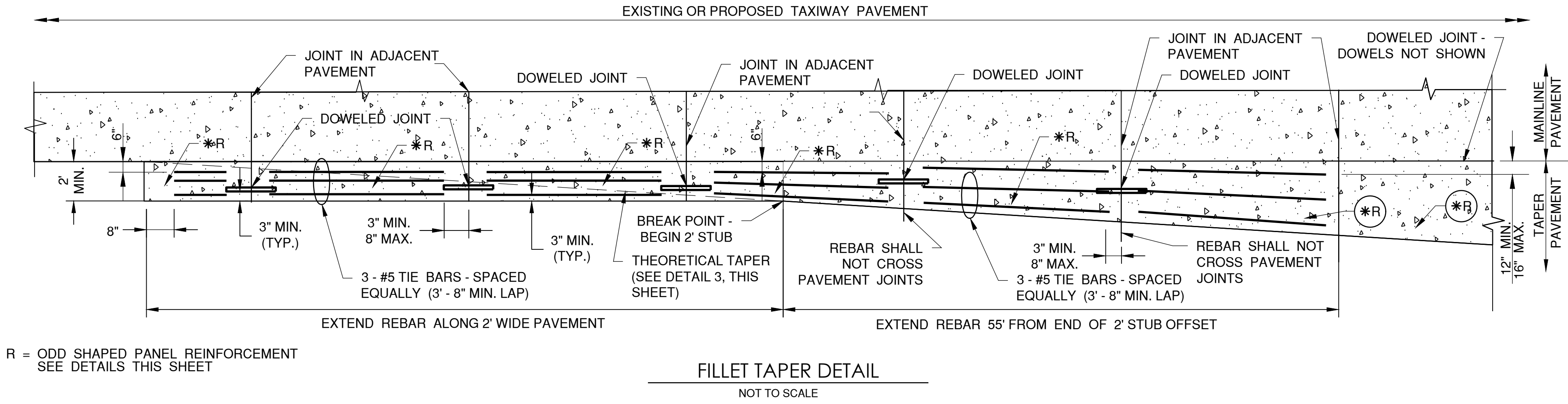
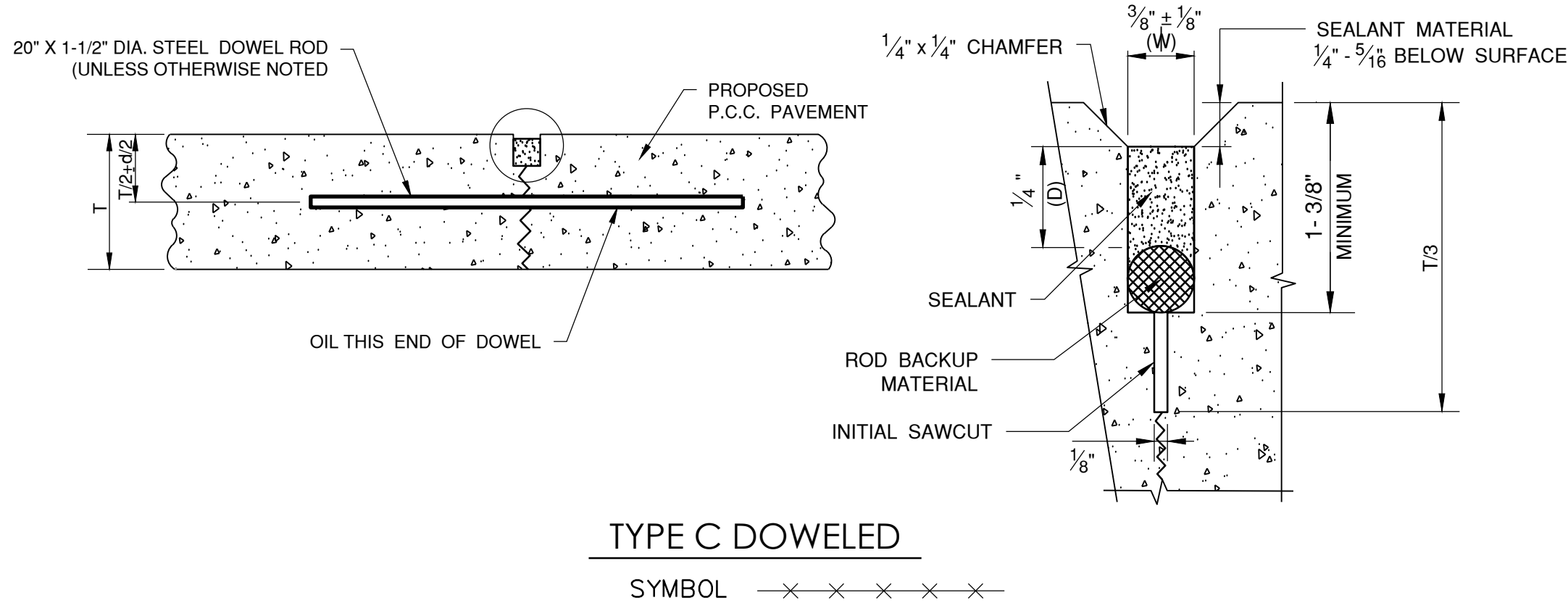
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PROJECT NO: 47732472		
CAD DWG FILE: JOINTING PLAN		
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CHECKED BY: JRC		
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AIRFIELD PAVEMENT JOINTING PLAN

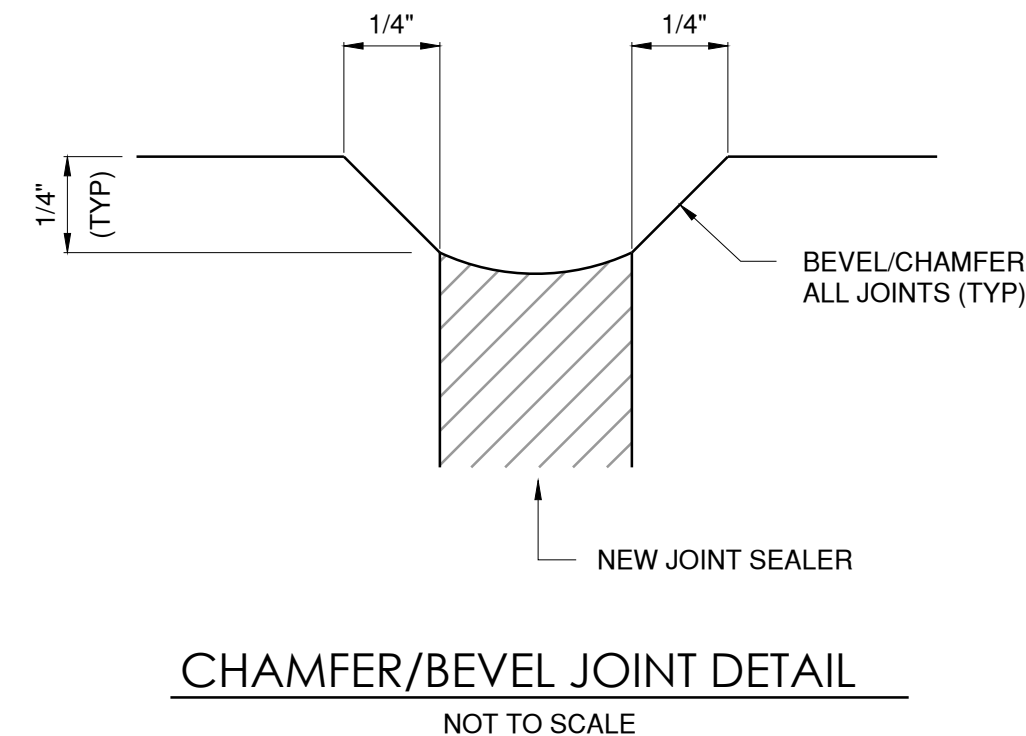
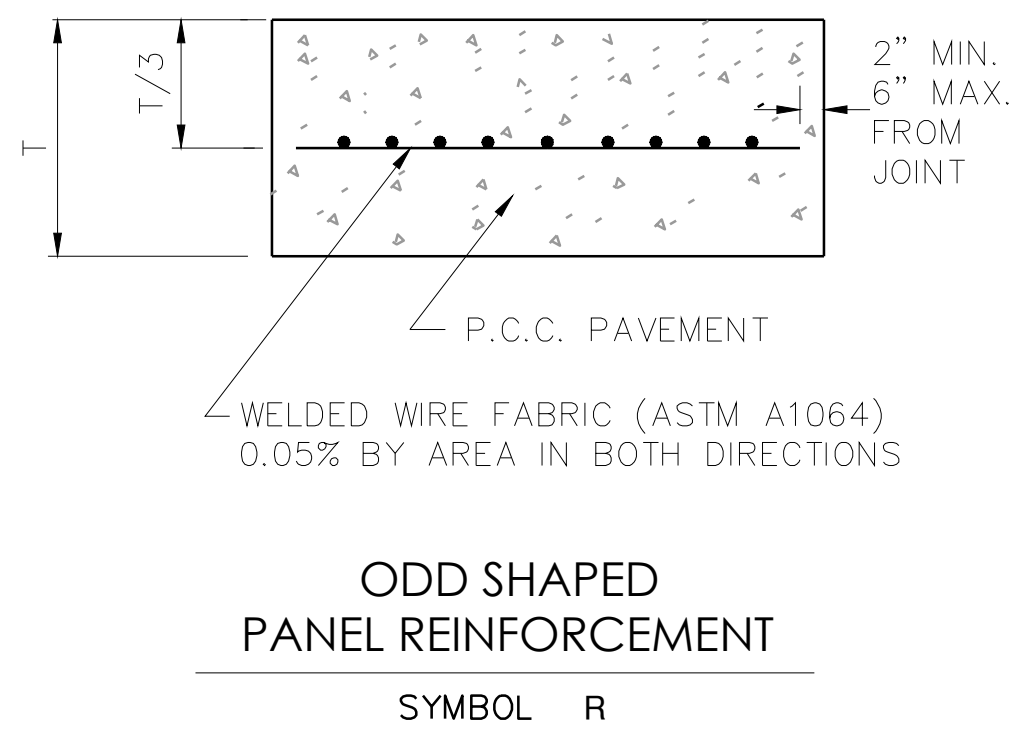
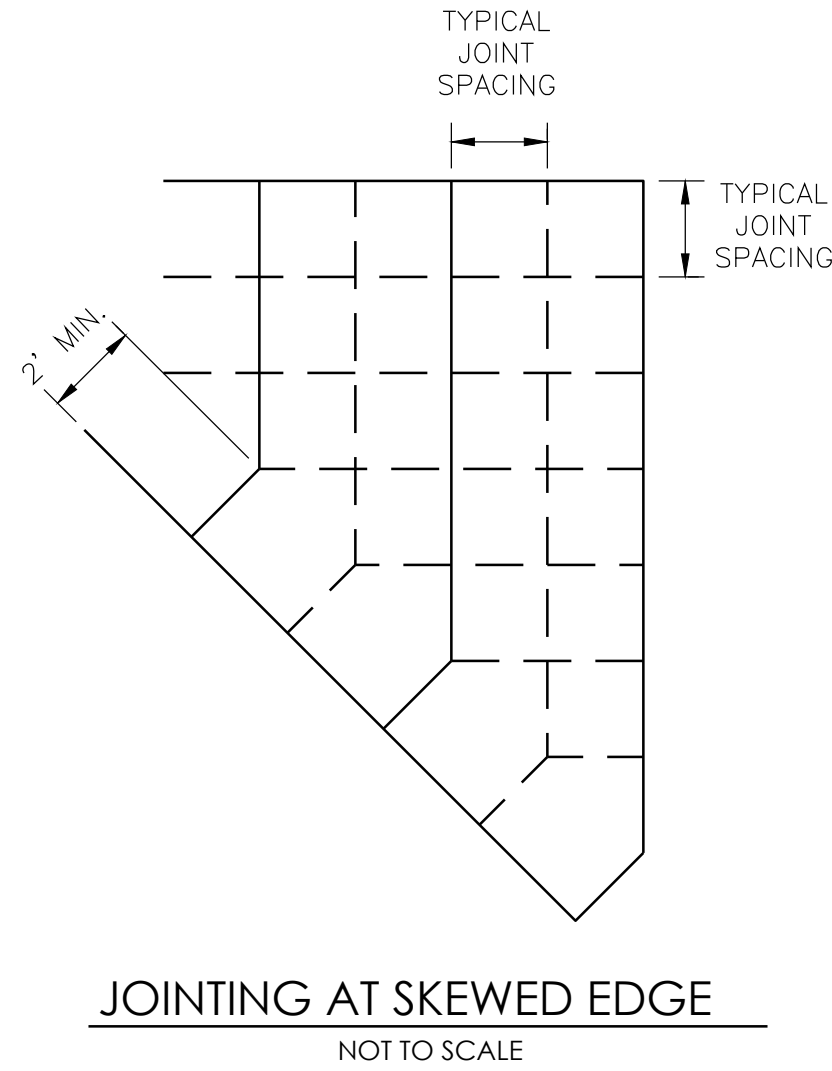
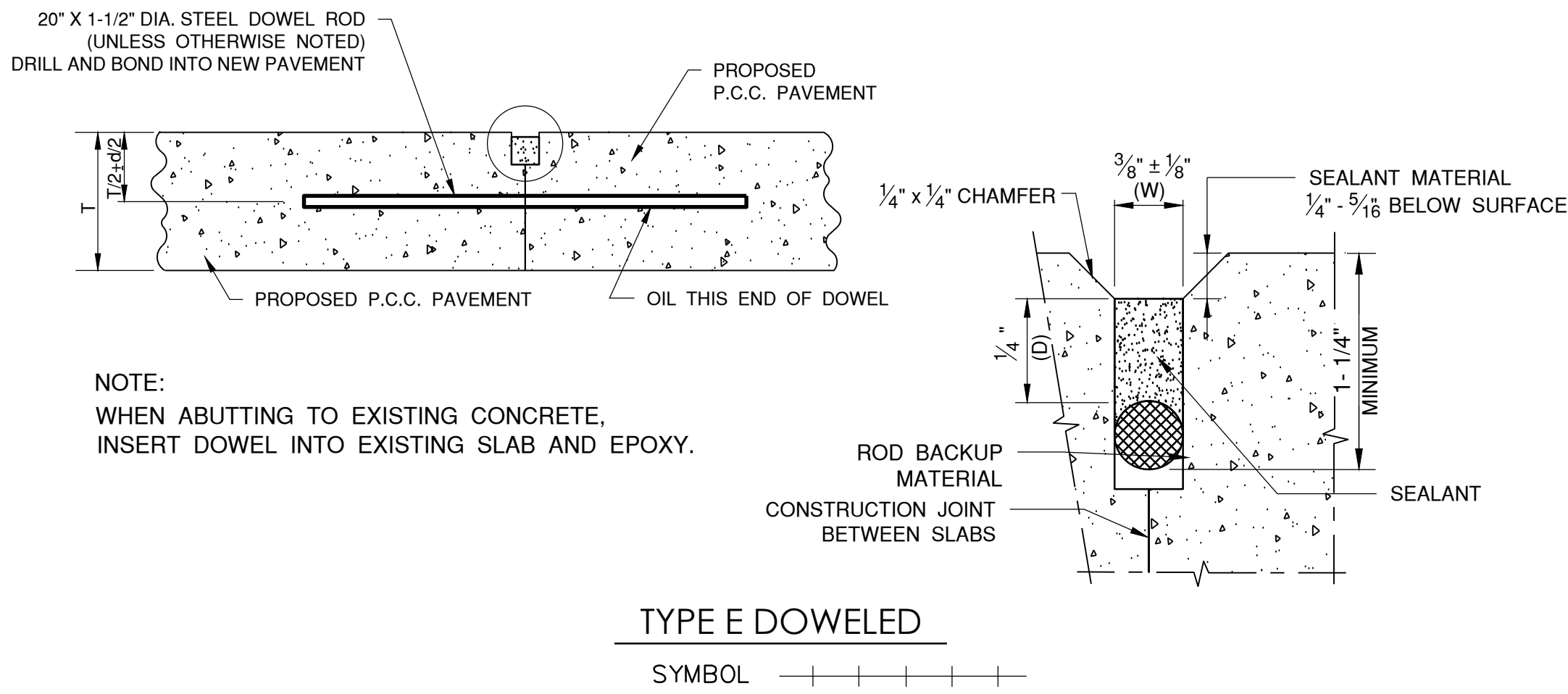
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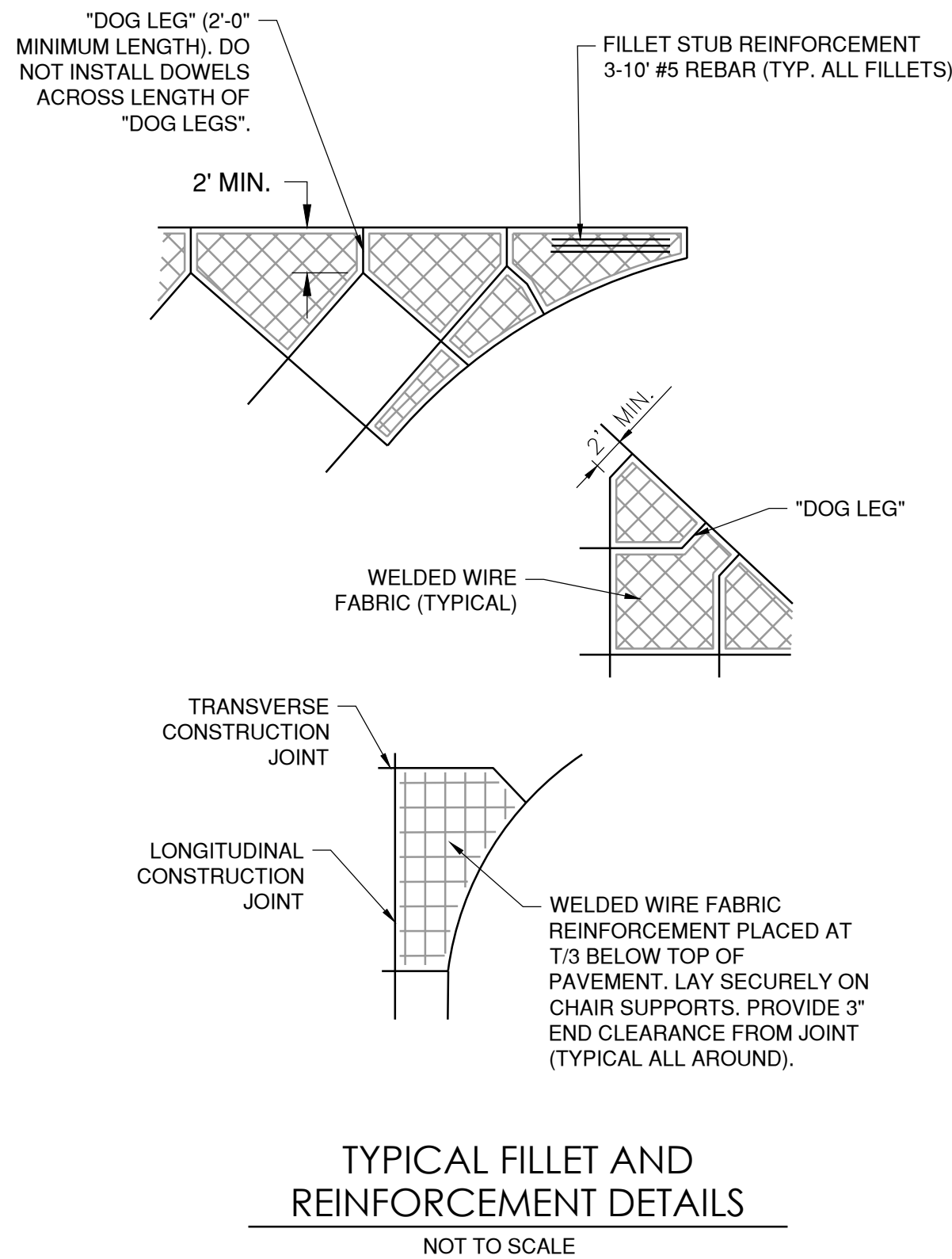
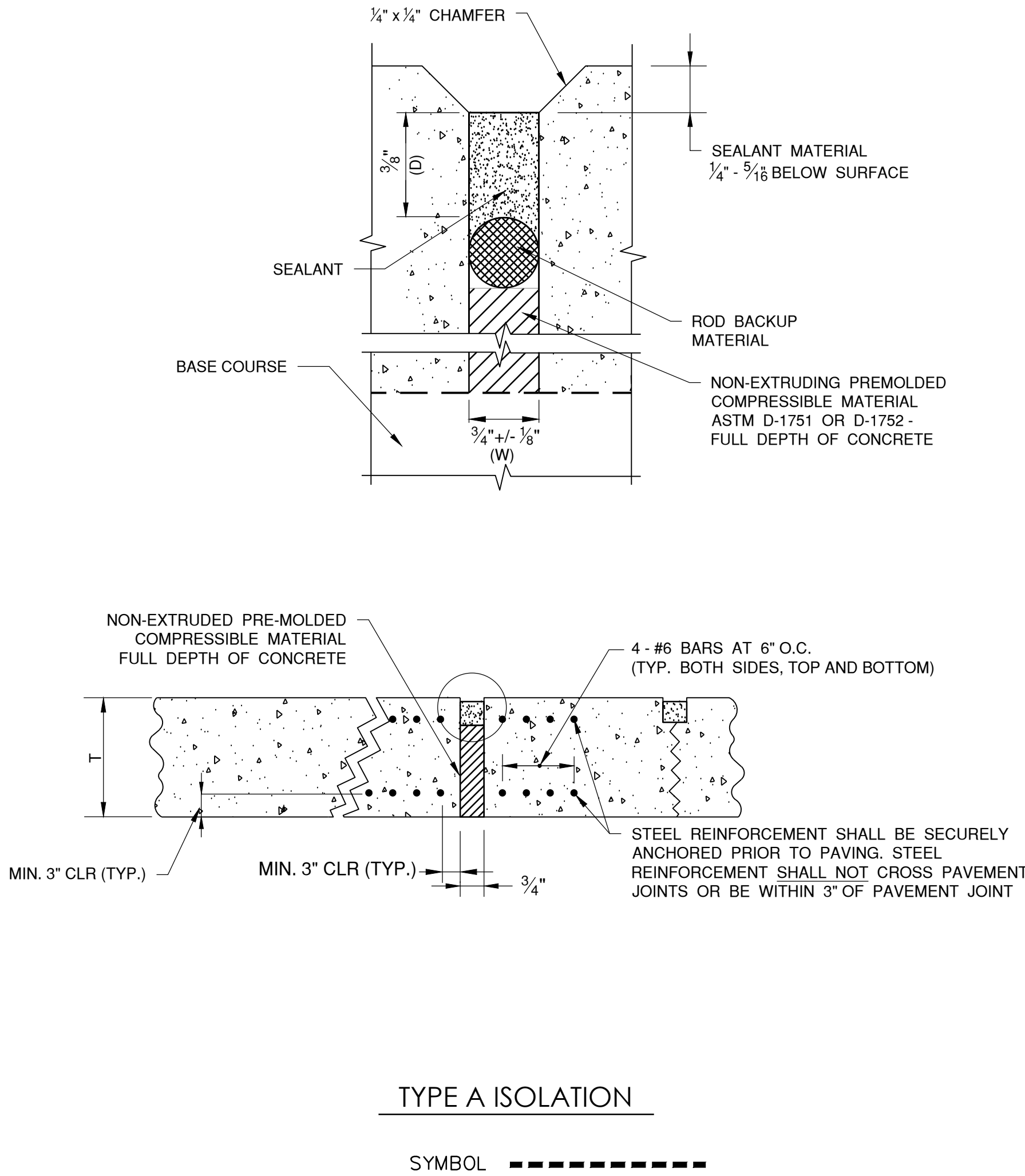
CONTRACTION JOINTS



CONSTRUCTION JOINTS



EXPANSION JOINTS



DIMENSION TABLES

TABLE 1		
DEPTH OF CONTRACTION JOINT INITIAL SAW CUT T, INCHES		
T=(T/3) ±1/4"		
PAVEMENT THICKNESS T - INCHES		
8"		T=2.67" ±1/4"
11"		T=3.67" ±1/4"

PAVEMENT THICKNESS T - INCHES	DOWEL BAR DETAILS			TIE BAR DETAILS		
	DIA. (d)	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
6"-7"	3/4"	18"	12"	#5	30"	30"
7.5"-12"	1"	18"	12"	#5	30"	30"
12.5"-16"	1 1/4"	20"	15"	#5	30"	30"
16.5"-20"	1 1/2"	20"	18"	#5	30"	30"
20.5"-24"	2"	24"	18"	#5	30"	30"

- NOTES:
- ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR. A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.
 - THE INITIAL SAWCUT FOR ALL LONGITUDINAL AND TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT. SAWING OF LONGITUDINAL CONTRACTION JOINTS ADJACENT TO THICKENED EDGES SHALL BE GIVEN PRIORITY OVER OTHER LONGITUDINAL JOINT SAWING.
 - ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL ENSURE THAT THEY WILL REMAIN PARALLEL TO THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALTERNATE METHODS OF PLACEMENT OF DOWEL BARS MAY BE PROPOSED BY THE CONTRACTOR, TO BE APPROVED BY THE ENGINEER. TRANSVERSE DOWEL BAR IMPLANTING WILL NOT BE ALLOWED.
 - ALL TIE BARS AND MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR PLACED BY OTHER APPROVED METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT.
 - TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A706, EXCEPT THAT RAIL STEEL BARS, GRADE 50 OR 60 SHALL NOT BE USED FOR THE BARS THAT ARE TO BE BENT OR RE-STRAIGHTEND DURING CONSTRUCTION. TIE BARS DESIGNATED AS GRADE 40 IN ASTM A706 CAN BE USED FOR CONSTRUCTION REQUIRING BENT BARS.
 - THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSION OF THE SECOND SAWCUT WILL NOT BE ALLOWED.
 - JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING OPERATIONS BEGIN.
 - SHOULD THE POURING OPERATIONS REQUIRE THE INSERTION OF AN INTERMEDIATE HEADER, A DOWEL BASKET ASSEMBLY OR OTHER APPROVED METHOD OF DOWEL BAR PLACEMENT SHALL BE REQUIRED.
 - EPOXY-COATED DOWEL BASKET ASSEMBLIES MAY BE PROPOSED BY THE CONTRACTOR TO BE APPROVED BY THE DESIGN PROFESSIONAL. DOWELS IN THE APPROVED BASKET ASSEMBLIES SHALL CONFORM TO TABLE 2.
 - CONTRACTOR SHALL CONSTRUCT A 1/4" CHAMFER ON ALL CONCRETE JOINTS PER THE DETAIL ON THIS SHEET.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

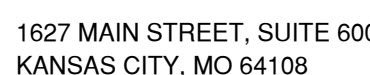
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SHEET TITLE

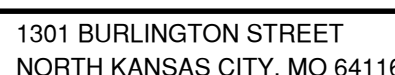
PAVEMENT JOINTING
DETAILS

C138

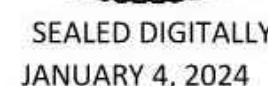
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1627 MAIN STREET, #100
KANSAS CITY, MO 64108



EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO: 47732472
CAD DWG FILE: STAKING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
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SHEET TITLE

AIRFIELD PAVEMENT STAKING PLAN

C139

SHEET 050 OF 13



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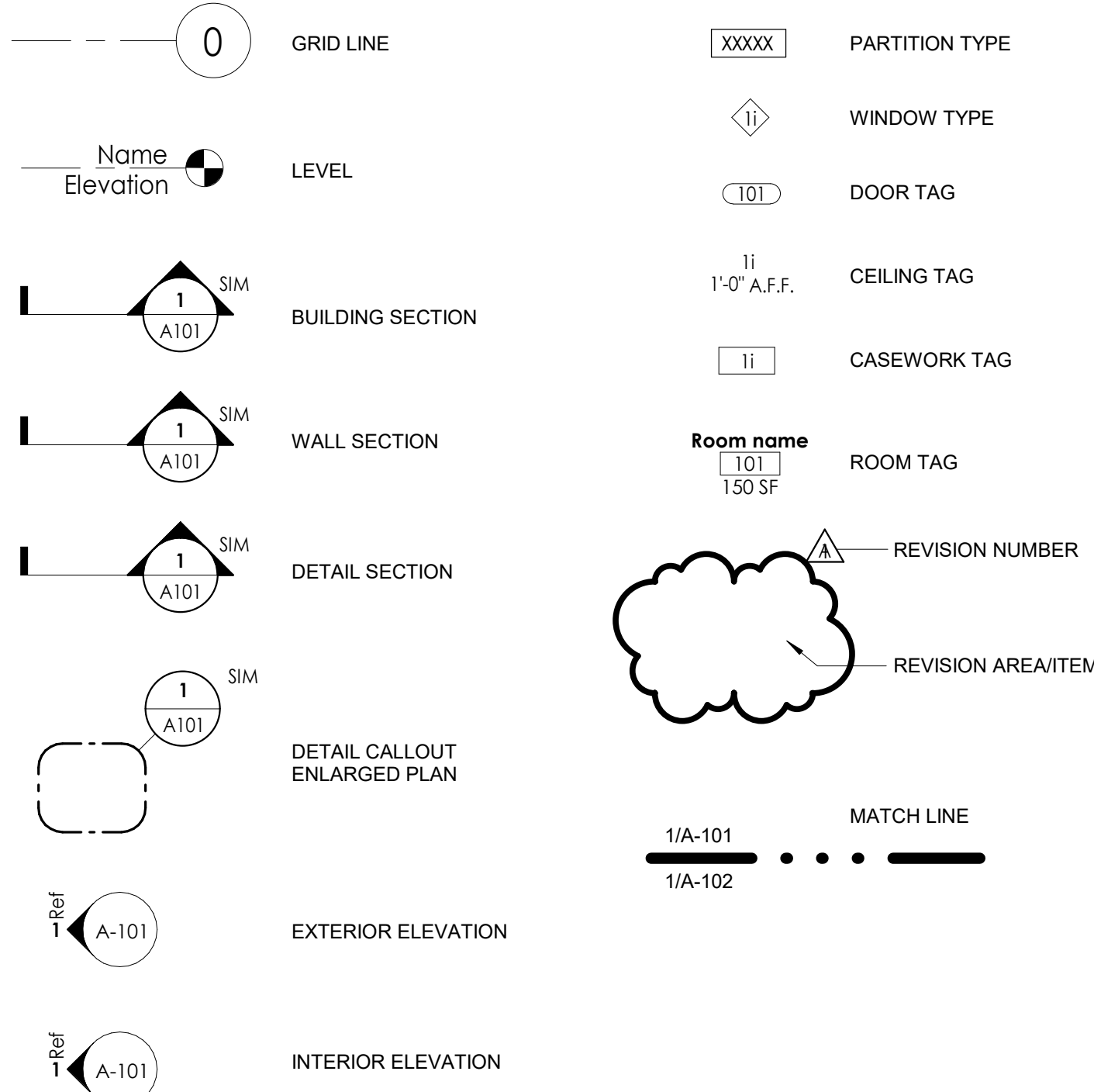


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ABBREVIATIONS

ADJ	ADJACENT	E.W.	EACH WAY	L	LONG / LENGTH	R	RISER
A.F.F.	ABOVE FINISHED FLOOR	EXIST.	EXISTING	LAM	LAMINATE, LAMINATED	RCP	REFLECTED CEILING PLAN
ALUM	ALUMINUM	EXT	EXTERIOR	LAV	LAVATORY	RB	RUBBER BASE
ALT	ALTERNATE	LT		LT	LIGHT	RAD, R	RADIUS
APPROX	APPROXIMATE	FAP	FIRE ALARM PANEL	MMR	MOLD & MOISTURE RESISTANT	RD	ROOF DRAIN
ARCH	ARCHITECTURAL	FD	FLOOR DRAIN	MAT'L	MATERIAL	REIN.F, R.I.	REINFORCED
A.S.	ABOVE SLAB	FDN	FOUNDATION	MAS	MASONRY	REQ, REQ'D	REQUIRED
		FE	FIRE EXTINGUISHER	MAX	MAXIMUM	REV	REVISION
		FE	FIRE EXTINGUISHER CABINET	MECH	MECHANICAL	RM	ROOM
BB	BASE BID	FR	FINISH	MEMB	MEMBRANE	R.O.	ROUGH OPENING
BD	BOARD	FL, FLR	FLOOR	MTL	METAL	S	SOUTH
BLDG	BUILDING	FL	FLOOR	MEZZ	MEZZANINE	SC	SOLID CORE, SEALED CONCRETE
BLKG	BLOCKING	F.O.C.	FACE OF CONCRETE	MFR, MANUF.	MANUFACTURER	SCHED	SCHEDULE
BRG	BEARING	F.O.F.	FACE OF FINISH	MIN	MINIMUM	SECT	SECTION
BOT	BOTTOM	F.O.S.	FACE OF STUD	MIR	MIRROR	S.F.	SQUARE FEET
B.O.	BOTTOM OF	F.O.W.	FACE OF WALL	MISC	MISCELLANEOUS	SGD	SAFETY GLASSES DISPENSER
B.O.S.	BOTTOM OF STEEL	FR	FIRE RATED, FIRE RETARDANT	SIM	MOISTURE RESISTANT	SIM	SIMILAR
		FRP	FIBERGLASS REINFORCED PANEL	MTD	MOUNTED	SPEC	SPECIFICATION
CJ	CONTROL JOINT	FT	FOOT, FEET	MWS	MOVABLE WALL SYSTEM	SQ	SQUARE
CL	CLOSET	FTG	FOOTING			S.S.	SOLID SURFACE, STAINLESS STEEL
CLNG	CEILING	FURR	FURRING	N	NORTH	ST	STAIR
CMR	CLEAR	F.V.	FIELD VERIFY	N.I.C.	NOT IN CONTRACT	STD	STANDARD
CMU	CONCRETE MASONRY UNIT	FVC	FIRE VALVE CABINET	NO, NUM	NUMBER	STL	STEEL
C.O.	CLEAN OUT			NOM	NOMINAL	STOR	STORAGE
COL	COLUMN	GA	GAUGE	N.S.F.	NET SQUARE FEET	STRUCT.	STRUCTURAL
CONC	CONCRETE	GALV	GALVANIZED	N.T.S.	NOT TO SCALE	SUSP	SUSPENDED
CONST	CONSTRUCTION	G.C.	GENERAL CONTRACTOR	O.C.	ON CENTER	SYM	SYMMETRICAL
CONT	CONTINUOUS	GRND	GROUND	OD	OUTSIDE DIAMETER		
CONTR	CONTRACTOR	GL	GLASS, GRID LINE	OFF.	OFFICE	TRD	TREAD
CORR	CORRIDOR	G.S.F.	GROSS SQUARE FOOTAGE	OFD	OVERFLOW DRAIN	T.C.	THEATER CONSULTANT
CPT	CARPET	GYP BD	GYPSPUM WALLBOARD	OPNG	OPERABLE GLASS PANEL PARTITION	TEMP.	TEMPORARY
CT	CERAMIC TILE	GYP	GYPSPUM	OPP	OPPOSITE	THK	THICK
CTR	CENTER	H.B.	HOSE BIB	PERP.	PERPENDICULAR	T.O.	TOP OF
DBL	DOUBLE	HC	HANDICAPPED	PL	PLATE	T.O.S.	TOP OF STEEL
DEPT	DEPARTMENT	HD	HEAD	PLM	PLASTIC LAMINATE	T.O.M.	TOP OF MASONRY
DET	DETAIL	HDWR	HARDWARE	PLYWD	PLYWOOD	T.O.W.	TOP OF WALL
DIA	DIAMETER	HML	HOLLOW METAL	PNL, PANEL	PANELBOARD	TR	TRASH RECEPTACLE
DM	DIMENSION	HPL	HIGH PRESSURE LAMINATE	PR	PAIR	T.S.	TUBE STEEL
DN	DOWN	HORIZ	HORIZONTAL	PROP.	PROPERTY	TYP	TYPICAL
DR	DOOR	HUR	HOUR	P.T.	PRESSURE TREATED		
DTL	DETAIL	HT	HEIGHT	PNT	PAINT	UNFIN	UNFINISHED
DW	DISHWASHER	HVAC	HEATING, VENTILATION, AIR CONDITIONING			U.O.N.	UNLESS OTHERWISE NOTED
DWG(S)	DRAWING/DRAWINGS	ID	INSIDE DIAMETER			VCT	VINYL COMPOSITION TILE
E	EAST	IN	INCH			VERT	VERTICAL
EA	EACH	INSUL	INSULATION	QT	QUARRY TILE	VEST.	VESTIBULE
EJ	EXPANSION JOINT	INT	INTERIOR	V.I.F	VERIFY IN FIELD	V.I.F	VERIFY IN FIELD
EL ELEV	ELEVATION	JAN	JANITOR	WVC	WATER COVERING		
ELEC	ELECTRIC, ELECTRICAL	JST	JOIST			W	WEST, WIDE, WIDTH
ENCL	ENCLOSURE	JT/JNT	JOINT			W, W/O	WITH, WITHOUT
E.O.S.	EDGE OF SLAB	KEC	KITCHEN EQUIPMENT CONTRACTOR			WC	WATER CLOSET
EQ	EQUAL	KIT	KITCHEN			WDW	WINDOW
EQUIP	EQUIPMENT					WH	WATER HEATER
E.T.R.	EXISTING TO REMAIN					W.R.	WATER RESISTANT
						WOT	WALK OFF TILE

SYMBOLS



GENERAL NOTES

- ALL WORK SHALL CONFORM WITH THE APPLICABLE BUILDING CODES, REGULATIONS, OCCUPANCY PERMITS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. IN THE EVENT OF A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND AN APPLICABLE CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT FOR DIRECTION AND RESOLUTION. FAILURE TO NOTIFY EITHER OF THESE PARTIES PRIOR TO COMMENCEMENT OF THE WORK, SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CORRECTIVE MEASURES NEEDED TO BRING THE PROBLEM INTO PROPER CONFORMANCE, WITHOUT ADDITIONAL COSTS OR CHARGES TO THE OWNER. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER.
- CONTRACTOR SHALL PROVIDE & MAINTAIN A REDLINED AS-BUILT CONSTRUCTION DOCUMENT SET AT THE SITE. THE OWNER OR THE ARCHITECT RESERVES THE RIGHT TO REVIEW THESE DOCUMENTS ON A WEEKLY BASIS.
- PROVIDE THE ARCHITECT WITH A COMPLETE COPY OF AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
- GENERAL CONTRACTOR SHALL FURNISH A COMPLETE LIST OF CHEMICALS TO BE USED IN THE PROJECT ALONG WITH THE MATERIAL DATA SAFETY SHEET ON EACH PRODUCT TO THE ARCHITECT. A COPY SHALL BE KEPT ON SITE FOR REFERENCE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- NO EQUIP., MATERIALS, OR VEHICLES ARE TO BE STORED OR PARKED ON AREAS NOT WITHIN THE AREAS INDICATED AS BEING DEMOLISHED ON THE DRAWINGS. IF AREAS ARE DISTURBED OR DAMAGED THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT AT CONTRACTORS EXPENSE.
- PRIOR TO LEAVING THE SITE DAILY, THE CONTRACTOR IS TO LEAVE THE FACILITY SECURABLE.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
- SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS AND LABOR AS REQUIRED TO TOTALLY COMPLETE THE PROJECT. ALL WORK SHALL BE COMPLETE, CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS, WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT. ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE ADDRESSED TO THE ARCHITECT.
- ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL REFERENCES TO THE "CONTRACTOR" INCLUDE THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS.
- THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF WORKING DRAWINGS FOR COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE.
- CONTRACTOR SHALL NOT MAKE, CAUSED TO BE MADE, OR PERMIT A SUBCONTRACTOR TO MAKE ANY CHANGE TO WHAT IS SPECIFIED ON THE PLAN WITHOUT SPECIFIC AUTHORIZATION OF THE ARCHITECT.
- THE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.
- DO NOT SCALE DRAWINGS, FOLLOW WRITTEN DIMENSIONS OR KEYED NOTES ONLY. CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION IF REQUIRED. VERIFY DIMENSIONS IN THE FIELD. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
- ALL WALL DIMENSIONS ARE FOR GENERAL REFERENCE ONLY AND MAY VARY.
- "MINIMUM" OR "MIN" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
- "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
- "*" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. VERIFY THE EXACT DIMENSION IN THE FIELD PRIOR TO FABRICATION.
- "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- "MATCH EXIST" AS USED IN THE DOCUMENTS SHALL MEAN THAT THE CONDITION OR MATERIAL IS TO SEAMLESSLY MATCH THE SURROUNDING OR PRESCRIBE MATERIAL IN STYLE, PROFILE, COLOR, TEXTURE & WHERE POSSIBLE MANUFACTURE.
- "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS SHALL BE ACCURATE TO FINISH WALL MATERIAL. CONTACT ARCHITECT PRIOR TO CONSTRUCTION IF FIELD CONDITIONS DO NOT ACCOMMODATE SAID DIMENSION.
- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE; AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
- ANY DISCREPANCIES AS TO LOCATION BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS. WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND SHALL NOT IMPACT THE SCHEDULE.
- THE ARCHITECT SHALL HAVE THE RIGHT TO MAKE FIELD ADJUSTMENTS IN ORDER TO MAINTAIN DESIGN INTENT.
- CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT. LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
- INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK. OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES, ETC. PRIOR TO START OF CONSTRUCTION.
- OBTAIN THE OWNER'S WRITTEN AUTHORIZATION BEFORE ANY WORK IS PERFORMED OR MATERIAL ORDERED WHICH INVOLVES EXTRA COST OVER AND ABOVE CONTRACT PRICE.
- INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTION AT NO ADDITIONAL CHARGE TO OWNER.
- SUBMIT FOR APPROVAL TO THE ARCHITECT FINISHES LISTED AS MATCH EXISTING.
- WHERE WALLS, CEILINGS, OR FLOORS ARE PATCHED, EXTENDED, OR REPAIRED, MATCH EXISTING MATERIALS, SIZE, PATTERN, TEXTURE, & COLOR UNLESS INDICATED OTHERWISE.
- MATERIALS INDICATED TO BE REINSTALLED IN PROJECT ARE TO BE CLEANED, PAINTED, REPAIRED AS APPROPRIATE FOR REINSTALLATION IN "LIKE NEW" CONDITION.
- CONTRACTOR TO PROTECT SITE FROM DAMAGE TO VEGETATION, DRIVES, PAVEMENT, AND WALKS. CONTRACTOR TO REPAIR OR REPLACE DISTURBED OR DAMAGED AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE TO OPEN AND PATCH BACK AS REQUIRED TO INSTALL SERVICES.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: DM
DRAWN BY: KP
CHECKED BY: WAI
APPROVED BY: WAI
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SHEET TITLE

ARCHITECTURAL
LEGEND AND
ABBREVIATIONS

AG001

SHEET 051 OF 131

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

11/10 REV:1
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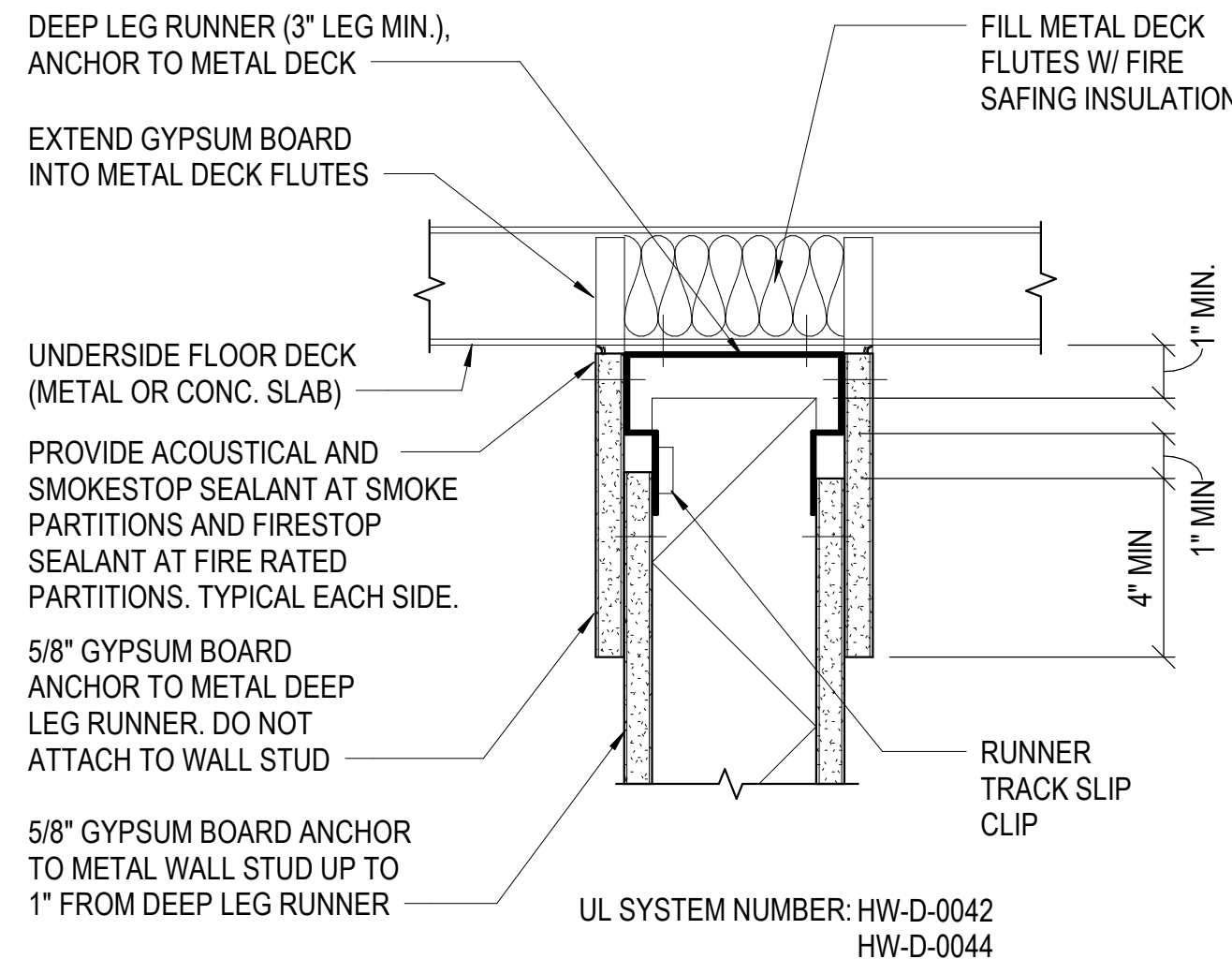
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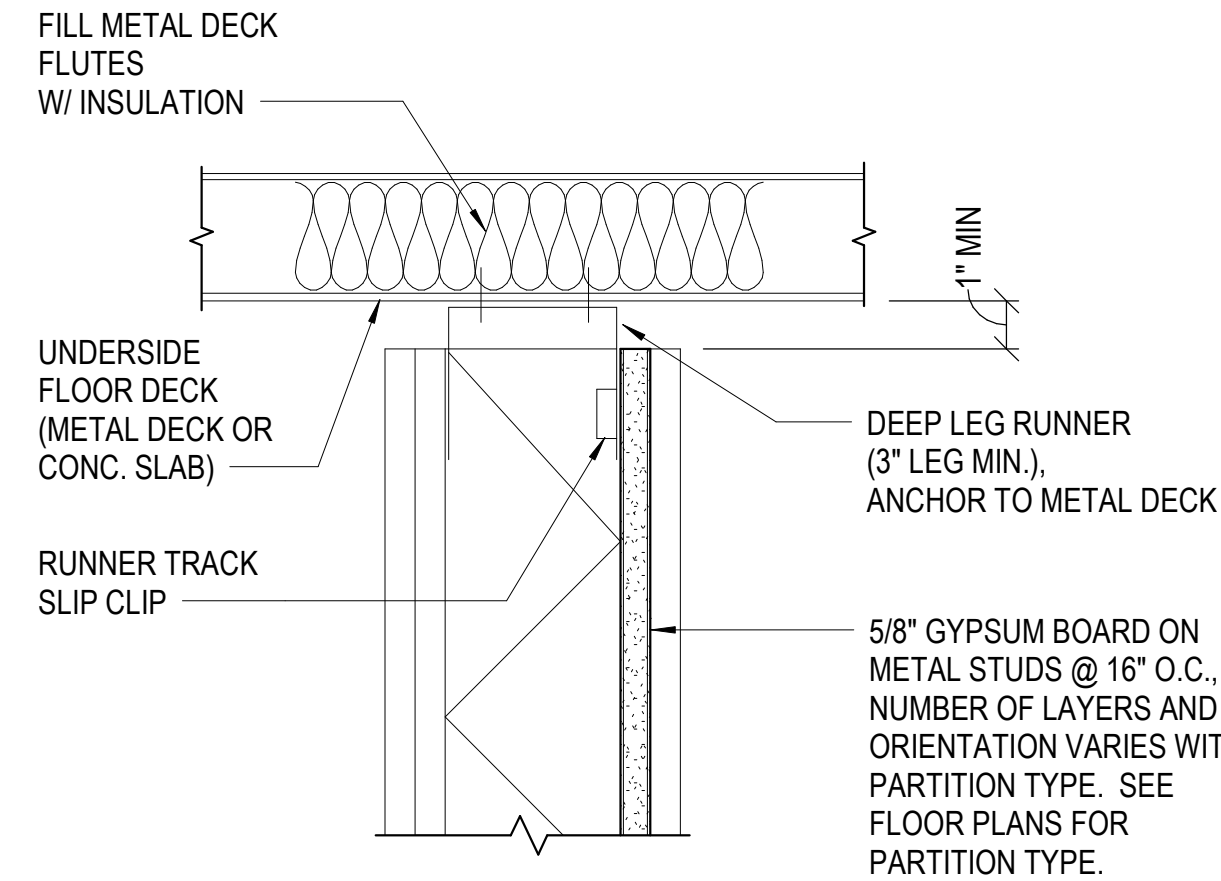
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AG002

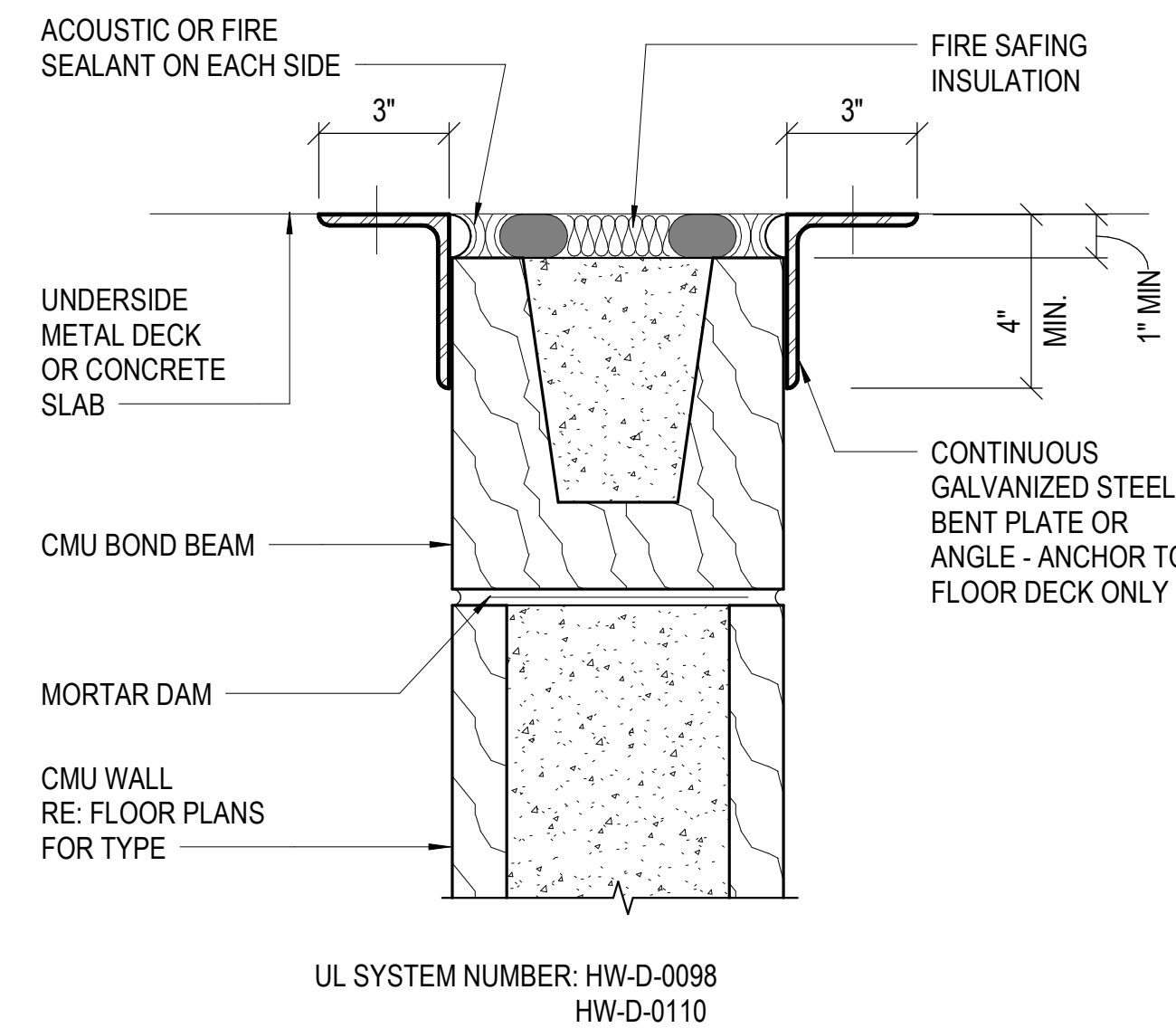
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INTERIOR PARTITION DETAILS
3" = 1'-0" 6

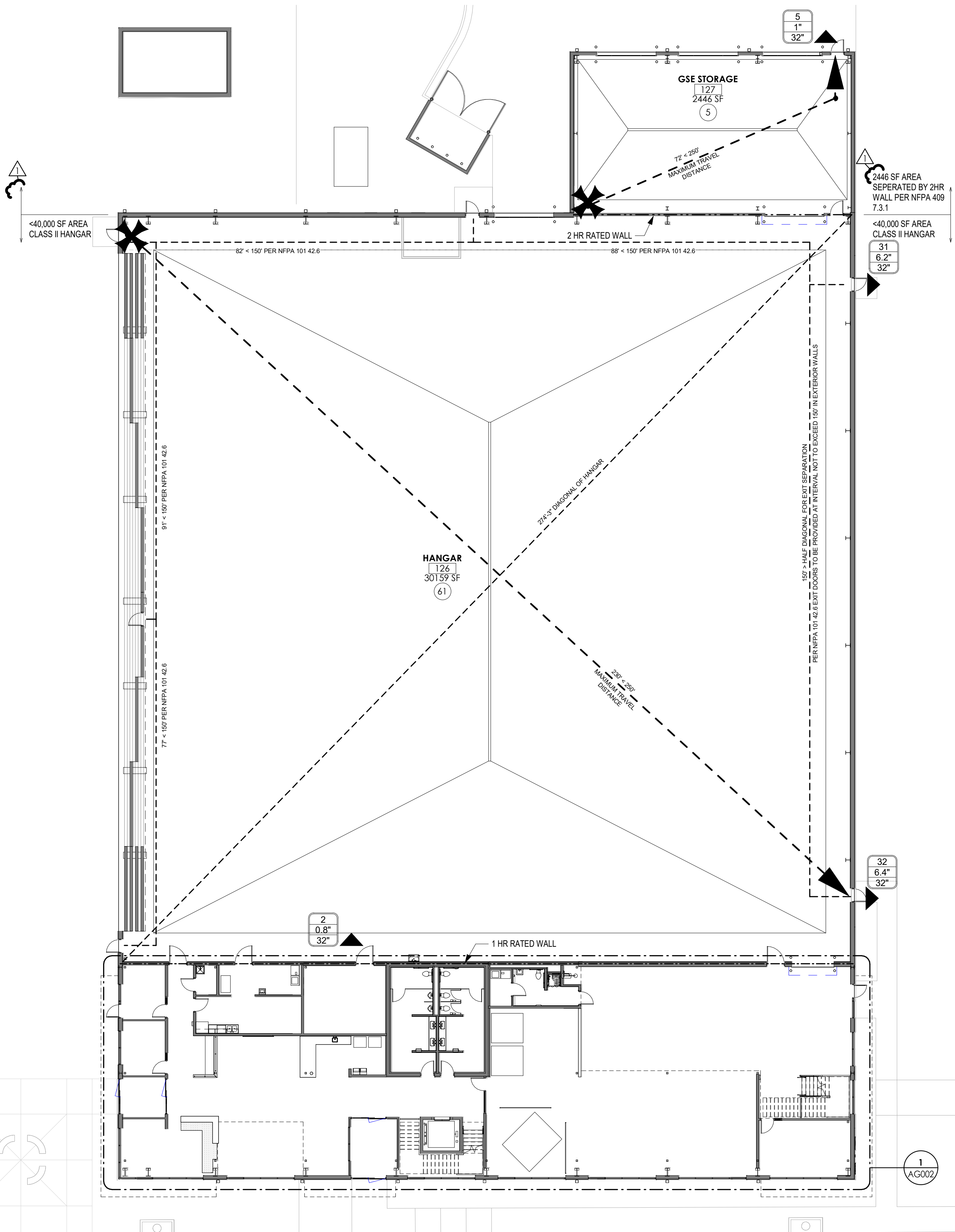


INTERIOR PARTITION DETAILS
3" = 1'-0" 5



INTERIOR PARTITION DETAILS
3" = 1'-0" 4

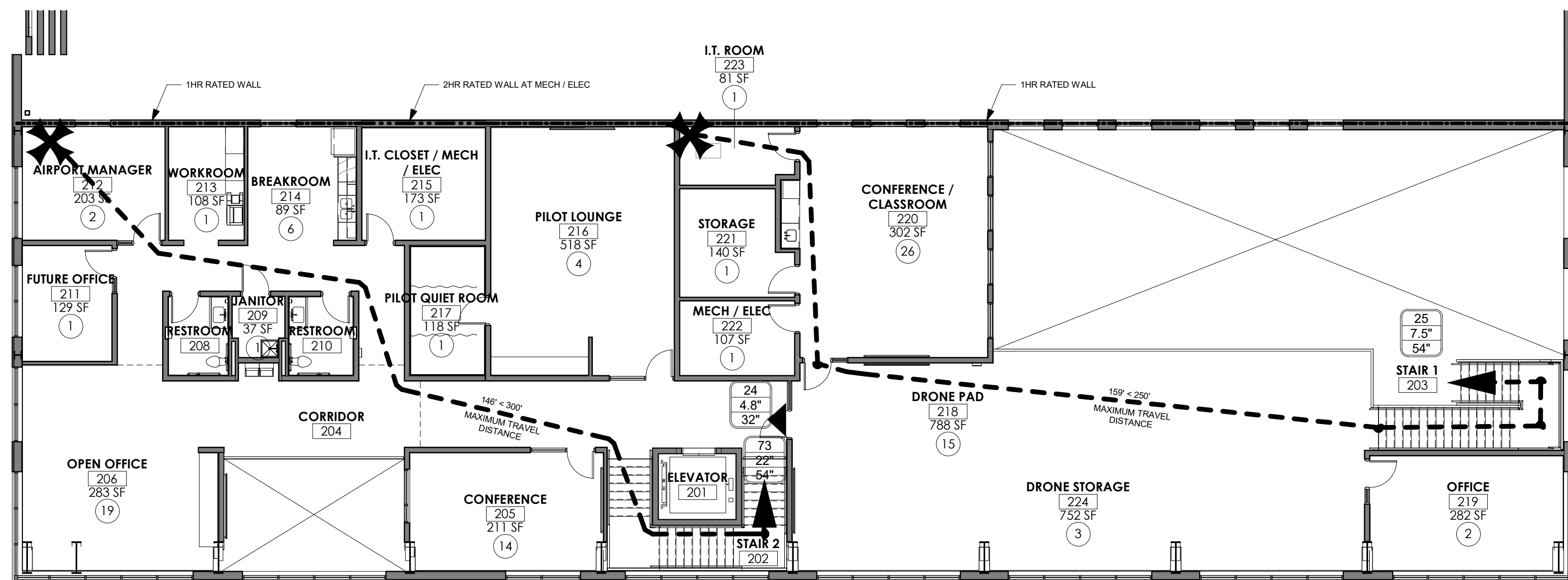
GROUP II HANGAR WITH 180'-0" X 28'-0" HANGAR DOOR



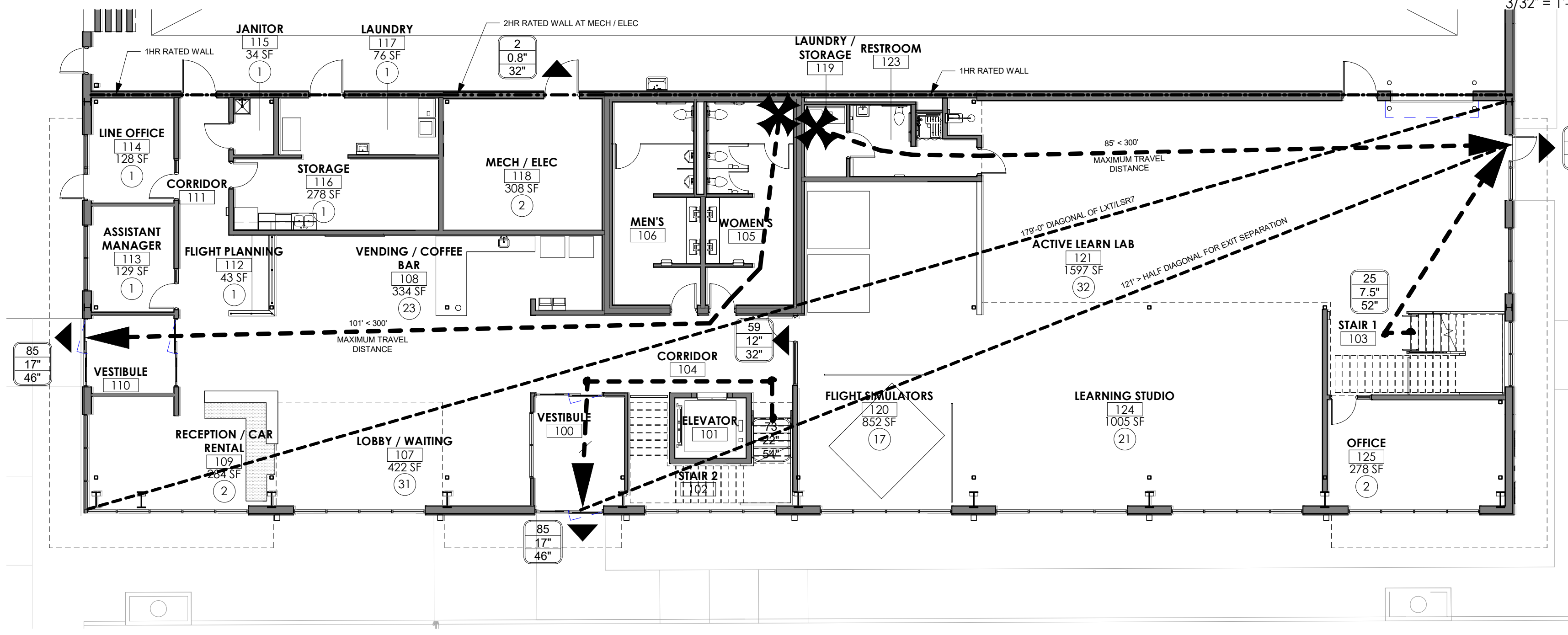
CODE PLAN - LEVEL 1 OVERALL PLAN
1/16" = 1'-0" 3

- START LOCATION OF MAXIMUM TRAVEL DISTANCE
- TRAVEL PATH
- EXIT
- EXIT LOAD (PERSON)
- 1 HR RATED
- 2 HR RATED
- SEMI RECESSED MOUNTED 2-A-20-B-C FIRE EXTINGUISHER
- BRACKET MOUNTED 2-A-20-B-C FIRE EXTINGUISHER
- FIRE EXTINGUISHER AND CABINET TYPE DESIGNATION. PORTABLE FIRE EXTINGUISHERS ARE REQUIRED TO BE INSTALLED IN ACCORDANCE WITH SECTION 906.
- NOTE: FOR PROPERTY LINE LOCATIONS RE: CIVIL
- ROOM NAME XXXXXX
- ROOM NUMBER XXXX
- SQUARE FEET XXX SF
- NUMBER OF OCCUPANTS (X)
- OCCUPANT EGRESS XXXX
- EGRESS WIDTH REQUIRED XXXX
- EGRESS WIDTH PROVIDED XXXX

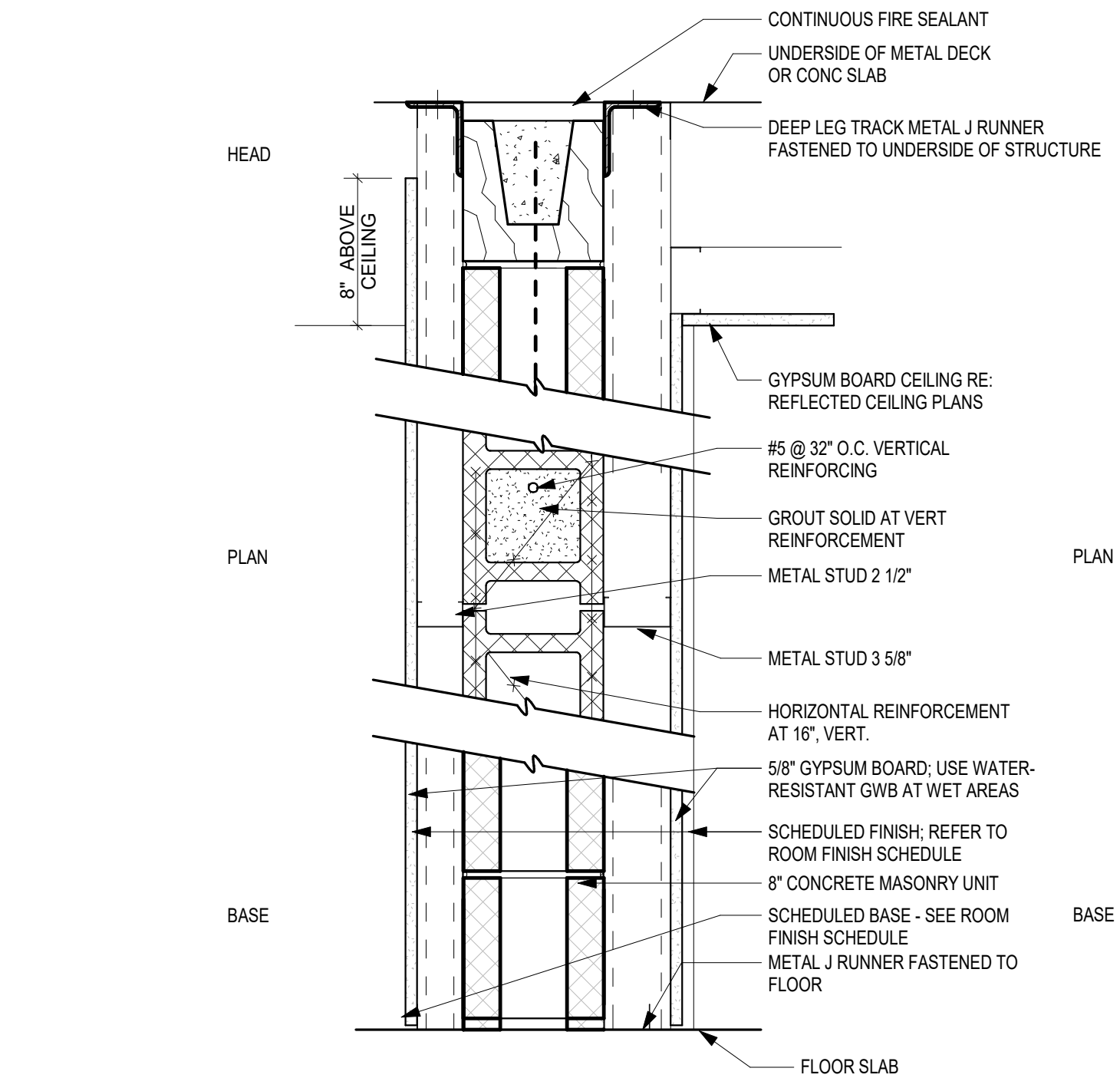
CODE PLANS LEGEND



CODE PLAN - LEVEL 2 HANGAR 2
3/32" = 1'-0" 2



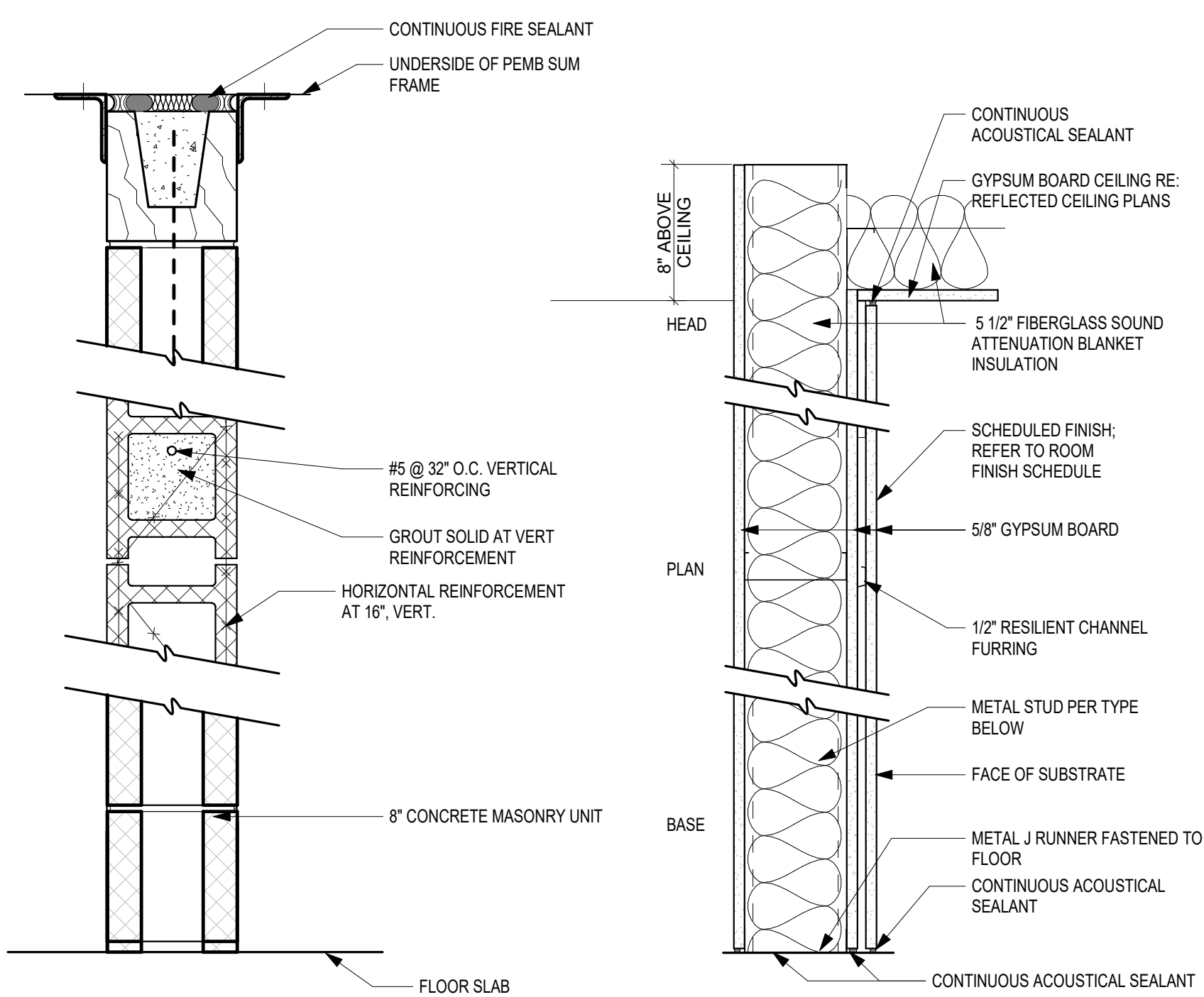
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3/32" = 1'-0" 1



TYPE M820 NO FIRE RATING 8\"/>

TYPE M821 U905 1 HOUR FIRE RATING 8\"/>

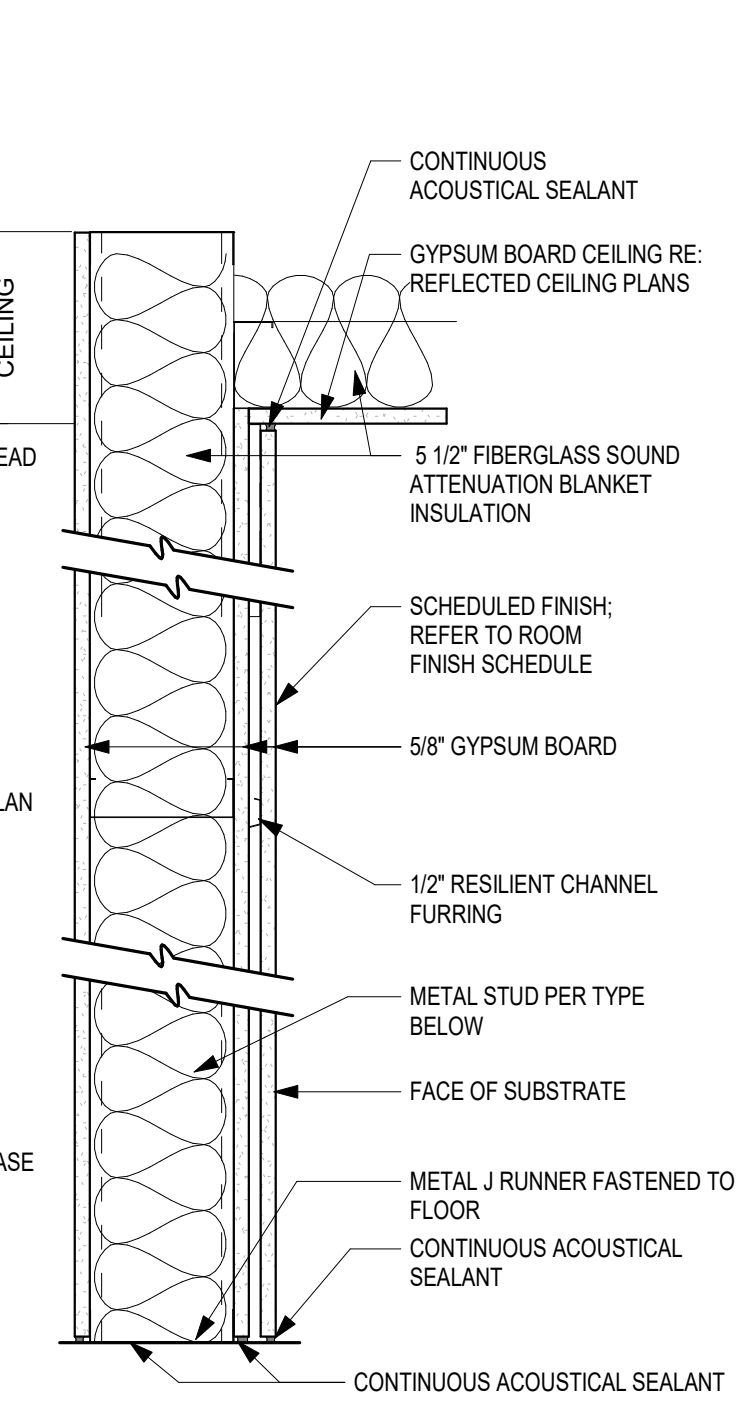
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TYPE M802 8\"/>

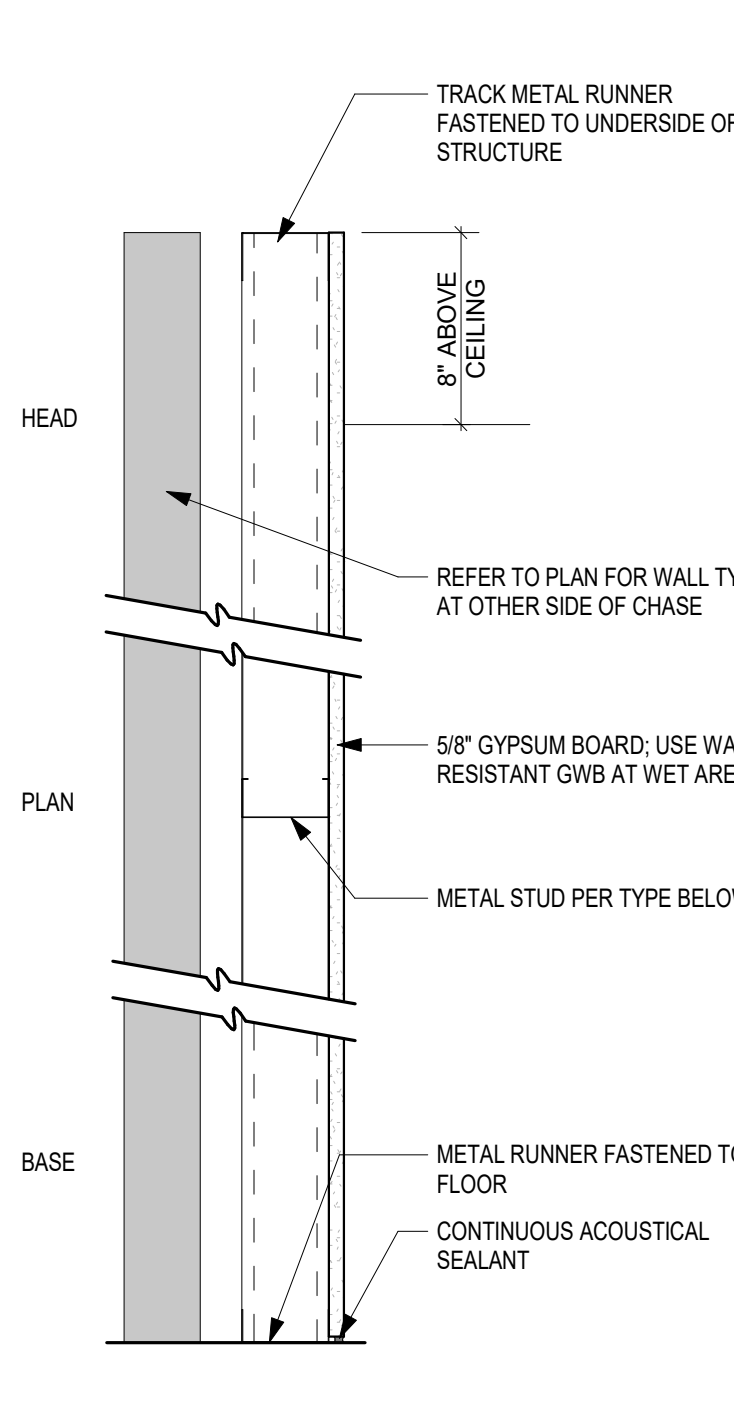
TYPE M800 U905 2HR RATED 8\"/>

PARTITION TYPE M - MASONRY



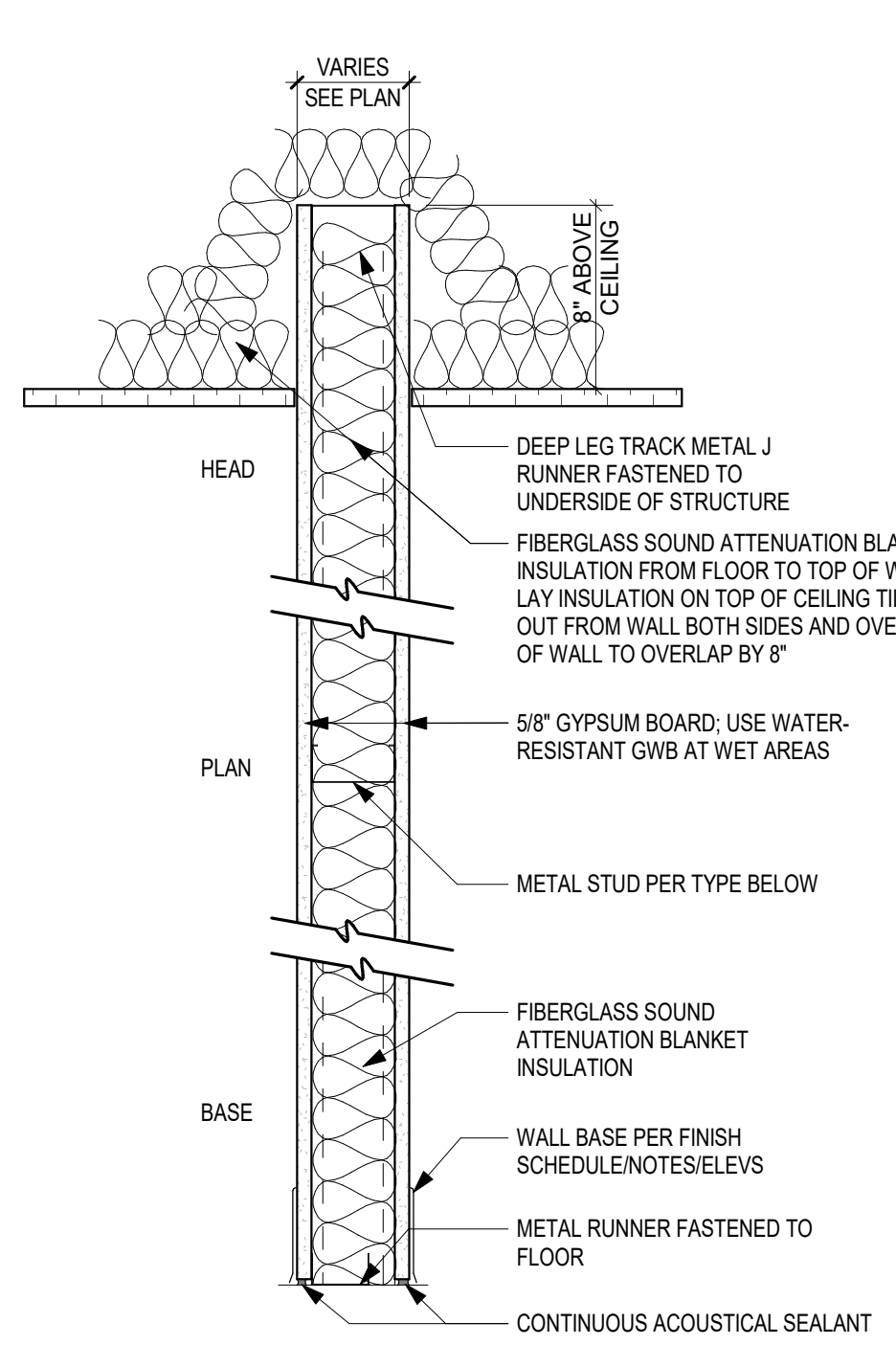
TYPE F630 NO FIRE RATING 6\"/>

PARTITION TYPE RC - FURRING



TYPE CH310 NO FIRE RATING 3 5/8\"/>

PARTITION TYPE CH - CHASE WALL (NR)



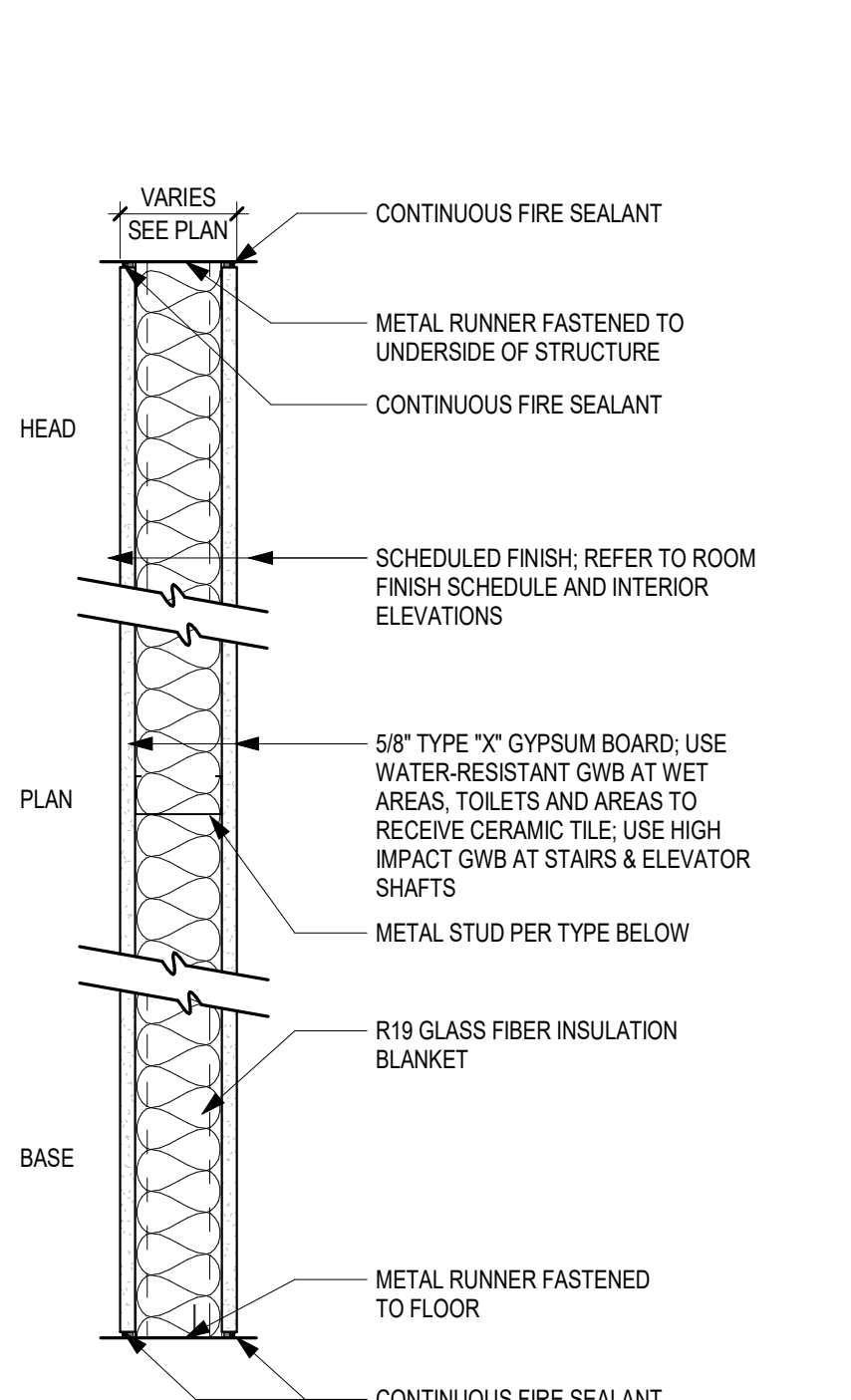
TYPE P320 NO FIRE RATING 3 5/8\"/>

TYPE P320A NO FIRE RATING 3 5/8\"/>

TYPE P620 NO FIRE RATING 6\"/>

TYPE P620A NO FIRE RATING 6\"/>

PARTITION TYPE S - PARTIAL HT

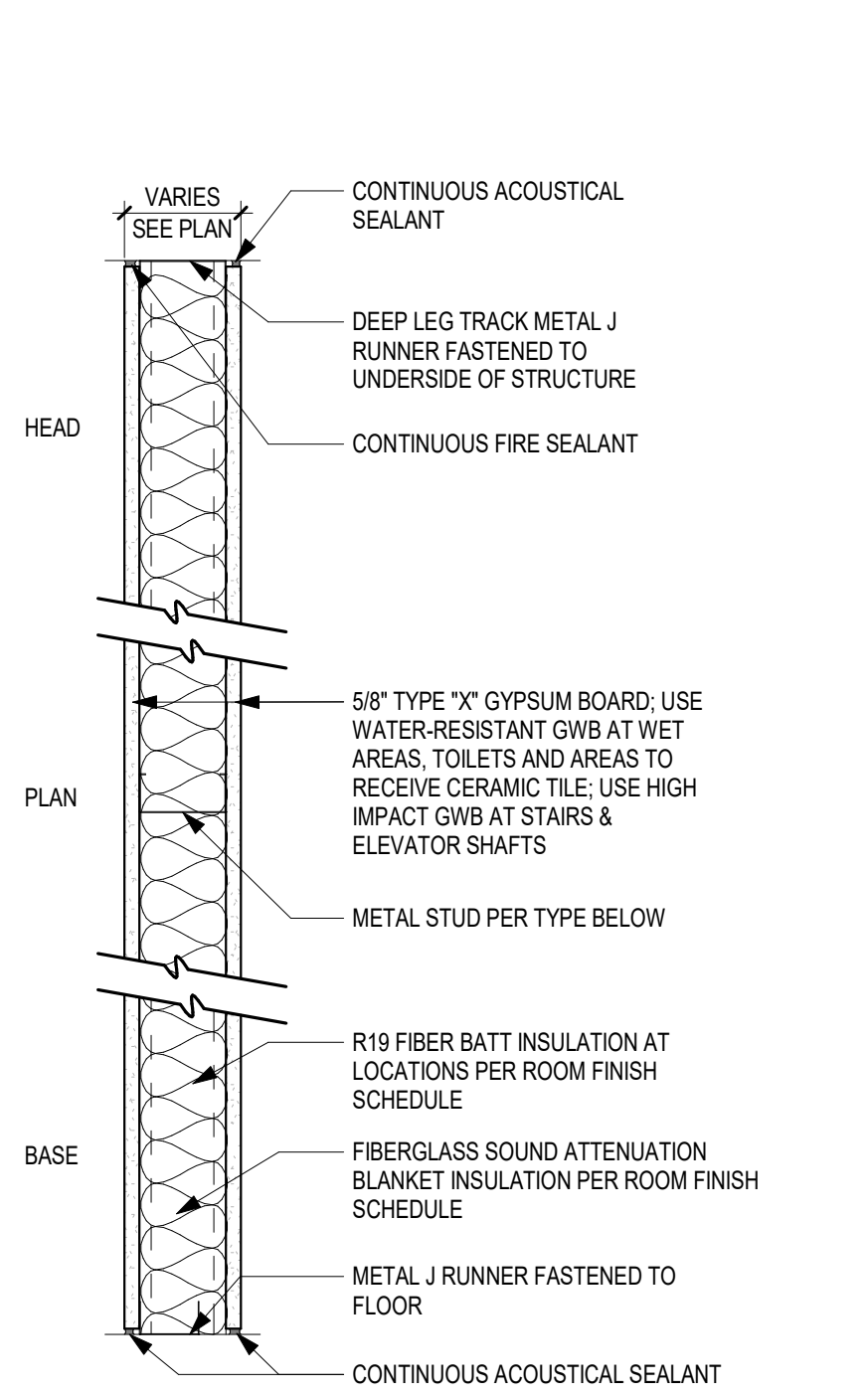


TYPE S821 UL 419 1HR RATED WALL 8\"/>

TYPE S821A UL 419 2HR RATED WALL 8\"/>

TYPE S1221 UL 419 1HR RATED WALL 12\"/>

PARTITION TYPE S - 1 HOUR / 2 HOUR



TYPE S320 NO FIRE RATING 3 5/8\"/>

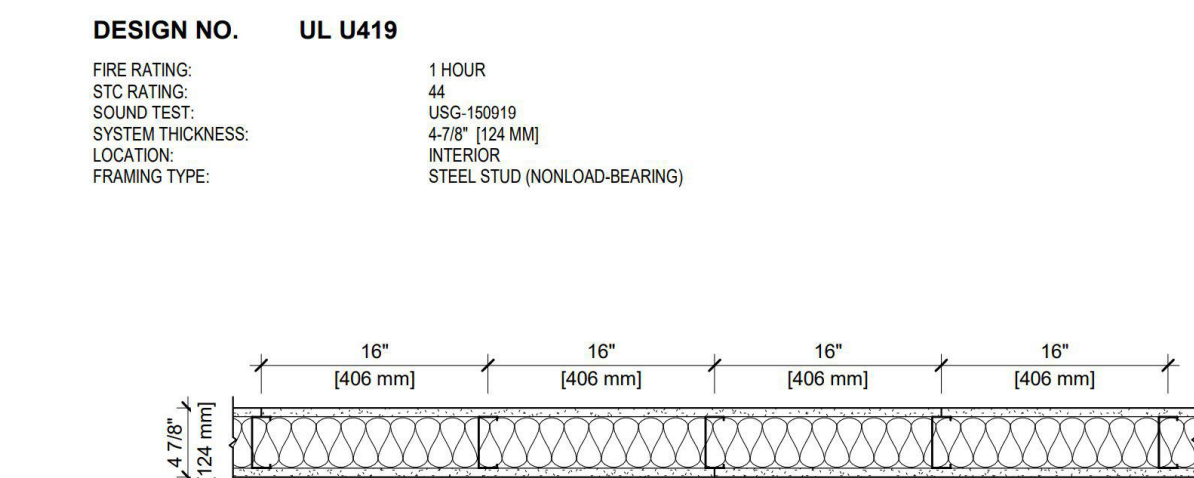
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TYPE S620 NO FIRE RATING 6\"/>

TYPE S620A NO FIRE RATING 6\"/>

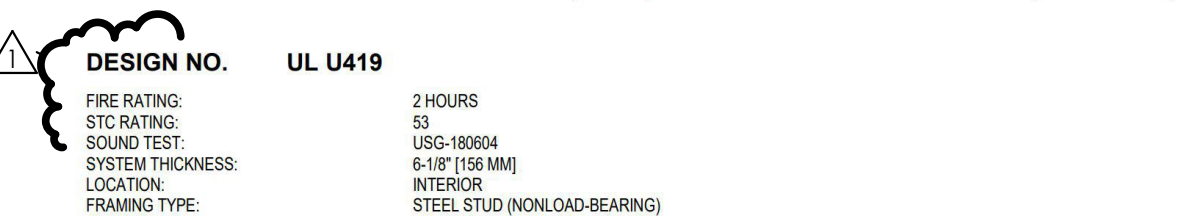
PARTITION TYPE S - NON RATED

RATED DETAILS



ASSEMBLY REQUIREMENTS:

GYPSUM PANELS: ONE LAYER 5/8\"/>



ASSEMBLY REQUIREMENTS:

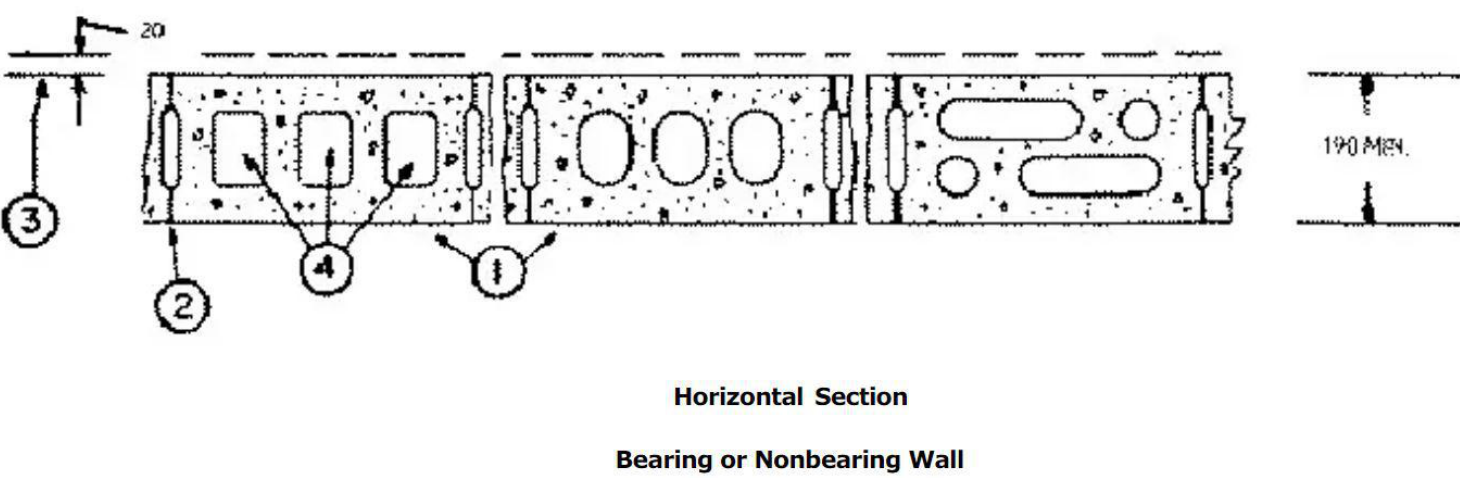
GYPSUM PANELS: TWO LAYERS 5/8\"/>

Design No. U905

June 18, 2012

Assembly Rating - 2 h

Load Restricted - Assembly evaluated in accordance with Working Stress Design methods, for use under Limit States Design methods; refer to information under Guide **EXXIV**.



* 1. Concrete Blocks of Various Designs - (CAZTC). 2 h rating based on noncombustible members framed into wall. Rating is 1 h when combustible members are framed into wall.

BASALITE CONCRETE PRODUCTS VANCOUVER ULC

EXPOCRETE CONCRETE PRODUCTS LTD

GROUPE PERMACON, DIV OF OLDCASTLE BUILDING PRODUCTS CANADA INC

OK BUILDERS SUPPLIES LTD

RONA INC

TRISTAR BRICK & BLOCK LTD

2. Mortar - Blocks laid in full bed of mortar, 13 mm thick, of 3 parts of clean and sharp sand to 1 part Portland Cement (proportioned by volume), and 15% hydrated lime (by cement volume). Vertical joints staggered.

3. Portland, Cement, Stucco or Gypsum Plaster - Add 1/2 h to Classification if used. Where combustible members are framed in wall, plaster/stucco must be applied on the face opposite framing to achieve a max Classification of 1-1/2 h.

4. Loose Masonry Fill - If all core spaces are filled with loose dry expanded slag, burned clay or shale (Rotary Kiln Process) or water repellent vermiculite masonry fill insulation, add 2 h to Classification.

WALL TYPE GENERAL NOTES

1. REFER TO PART PLANS AND ENLARGED PLANS FOR PARTITION TYPES AND REQUIRED MINIMUM FIRE RATINGS. FOLLOW THE TERMINOLOGY OF PARTITIONS TO DEVELOP FULLY COMPLIANT ASSEMBLY

2. UTILIZE 3 5/8\"/>

3. ALL GYPSUM BOARD IS 5/8\"/>

4. ALL FIRE RATED PARTITIONS TO BE TYPE \"X\" GYPSUM BOARD

5. USE WATER-RESISTANT GYPSUM BOARD ON PARTITIONS SCHEDULED TO RECEIVE CERAMIC TILE AND ALL WET AREAS. EXCEPTION: USE CEMENTITIOUS BACKER BOARD IN SHOWERS.

6. USE MINIMUM 20 GAUGE 3 5/8\"/>

7. ALL LIMITING HEIGHTS TO BE CONFIRMED BY THE SELECTED MANUFACTURER.

8. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT SILL AND HEAD PARTITIONS WHERE AN STC RATING IS REQUIRED.

9. PROVIDE SOUND ATTENUATION BLANKET (SAB) TO ACHIEVE STC RATINGS AS REQUIRED.

10. PROVIDE SOUND ATTENUATION FIRE BLANKET (SAFB) TO ACHIEVE FIRE RATINGS AND STC RATINGS AS REQUIRED.

11. TAPE, BED, FLOAT AND FINISH ALL GYPSUM BOARD CORNERS AND JOINTS READY FOR FINISH.

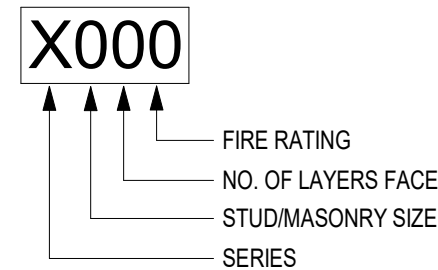
12. PROVIDE CONTINUOUS CAULKING AT ALL DUCT PIPE AND CONDUIT PENETRATIONS THROUGH WALLS REQUIRING FIRE RATINGS AND ACOUSTICAL SEPARATION.

13. ALL FIRE RATED PARTITIONS SHALL COMPLY WITH APPLICABLE CODE.

14. WALLS, DOORS AND PENETRATIONS AT MDPS TO BE SEALED TO MEET THE REQUIREMENTS OF THE CLEAN AGENT FP SYSTEM.

15. STUD TYPE PARTITIONS IN MER ROOMS TO RECEIVE PLYWOOD FINISH FACE INSIDE OF ROOM

16. EXPANSION JOINTS SHALL BE INSTALLED AT A MAX. OF 30'-0\"/>



SERIES NAMES:

F = FURRING
S = STUD
CH = CHASE

STUD/MASONRY SIZE: FIRE RATING:

0 = 7/8\"/>

NOTE: REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON ATTRIBUTES.

CODE INFORMATION

FACILITY NAME: EASTSIDE DEVELOPMENT

ADDRESS: NE HAGAN RD LEE'S SUMMIT MISSOURI
OWNER: THE CITY OF LEE'S SUMMIT

PROJECT SCOPE

NEW APPROXIMATELY 40,000 SF FOOTPRINT, WITH 30,000 SF FOR AIRPLANE STORAGE AS FBO SERVICE, 10,000 SF FOR LSR7 SCHOOL DISTRICT, 8,700 FOR FBO TERMINAL, AND 2,400 SF FOR GSE EQUIPMENT STORAGE.

ADOPTED CODES

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL ENERGY CODE
- 2021 LIFE NFPA SAFETY CODE
- ICC/ANSI A117.1-2009
- NFPA 409 (2016 BY REFERENCE BUT BY ACCEPTANCE NEWER 2022 VERSION IS BASIS OF DESIGN)
- ORDINANCES OF THE UNITED GOVERNMENT OF LEE'S SUMMIT, MISSOURI

BUILDING OCCUPANCY, HEIGHT, AND AREA

MIXED USE OCCUPANCY, TYPE II-B NONCOMBUSTIBLE, UNPROTECTED, FULLY SPRINKLED CONSTRUCTION. EDUCATIONAL ASSEMBLY WILL BE LESS THAN 50 PEOPLE AND CONSIDERED AS BUSINESS OCCUPANCY.

B OCCUPANCY FOB: ALLOWABLE: 92,000 SF, 4 STORIES

ACTUAL: 8,640 SF, 2 STORY

E OCCUPANCY LSR7: ALLOWABLE: 58,000 SF, 3 STORIES

ACTUAL: 7,223 SF INTERIOR, 2 STORY

(ASSEMBLY LESS THAN 50 PEOPLE IS TYPE B)

ALLOWABLE: 40,000 SF PER NFPA, 3 STORIES, 75 FEET

ACTUAL: 33,416 SF INTERIOR 1 STORY, 45 FEET

SEE THE ATTACHED ADJACENT LETTER FROM THE LEE'S SUMMIT REORGANIZED SCHOOL DISTRICT NO 7 FOR LIMITING OCCUPANT LOAD TO 49

TYPES OF CONSTRUCTION

FIRE-RESISTANCE RATING REQUIREMENTS OF II-B CONSTRUCTION FOR BUILDING ELEMENTS

BUILDING ELEMENT	FR RATING (HOURS)
PRIMARY STRUCTURAL FRAME	0
EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE > 10'	0
INTERIOR BEARING WALLS	0
NONBEARING WALLS & PARTITIONS	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

FIRE PROTECTION AND LIFE SAFETY SYSTEMS

AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 FOR BUSINESS AND EDUCATION. NFPA 409 FOR THE STORAGE (HANGAR)

NOTE: SPRINKLER SYSTEM IS TO BE DESIGN BUILT BY G.C. - DEFERRED SUBMITTAL ALARM SYSTEM IS TO BE DESIGN BUILT BY GC IF REQUIRED - DEFERRED SUBMITTAL -G.C SHALL PROVIDE CUT SHEETS FOR IMPACT RESISTANT DOORS, WINDOWS, ETC TO THE CITY AS REQUIRED, DEFERRED SUBMITTAL

NFPA 409 FOR THE STORAGE OF AIRCRAFT

SECTION 6.1.2 GROUP II AIRCRAFT HANGAR: HANGAR SHALL HAVE AN AIRCRAFT ACCESS DOOR HEIGHT OF 28 FT MAXIMUM AND A SINGLE FIRE AREA OF MAXIMUM 40,000 SQFT FOR TYPE II CONSTRUCTION PER TABLE 6.1.2

THE PROTECTION REQUIREMENTS IN 9.1.1 SHALL BE PERMITTED TO BE MODIFIED WITHIN THE AIRCRAFT STORAGE AND SERVICE AREA WHERE A RISK ASSESSMENT, AS OUTLINED IN SECTION 4.2 FIRE RISK ASSESSMENT IS SUBMITTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

CONSTRUCTION OF GROUP I AND GROUP II AIRCRAFT HANGARS CHAPTER 7

SECTION 7.3.3 PARTITIONS AND CEILINGS SEPARATING AIRCRAFT STORAGE AND SERVICING AREAS FROM ALL OTHER AREAS, SHOPS, OFFICES, AND PARTS STORAGE AREAS SHALL HAVE AT LEAST A 1-HOUR FIRE RESISTANCE RATING WITH OPENINGS PROTECTED BY LISTED FIRE DOORS OR SHUTTERS HAVING A MINIMUM FIRE RESISTANCE RATING OF 45 MINUTES.

SECTION 7.7.3.2 THE USE OF NOZZLES OR OPEN-HEAD SPRINKLERS WITH ANY NOMINAL K-FACTOR FOR COLUMN PROTECTION SHALL BE PERMITTED

EXITING

1004.2 OCCUPANT LOAD			
HANGAR	500 GROSS	33,416 SF	67
BUSINESS - FOB	150 GROSS	6,548 SF	44
ASSEMBLY CONCENTRATED (LOBBY)	7 NET	813 SF	116
ASSEMBLY UNCONCENTRATED (CONF. RM)	15 NET	279 SF	19
EDUCATION CLASSROOM (BUSINESS)	150 GROSS	1,388 SF	10
EDUCATION SHOP	50 NET	5,446 SF	109
ACCESSORY STORAGE/MECHANICAL	300 GROSS	649 SF	3
TOTAL OCCUPANT LOAD			376

EXIT ACCESS - COMMON PATH OF EGRESS TRAVEL PER TABLE 1006.2.1

B & S OCCUPANCY WITH SPRINKLER SYSTEM

B OCCUPANTS = 100'

A OCCUPANCY = 75'

E OCCUPANCY = 75'

S OCCUPANTS = 100'

EXIT AND EXIT ACCESS DOORWAYS

B OCCUPANCY: MORE THAN ONE EXIT REQUIRED WHEN OCCUPANT LOAD EXCEEDS 49 S OCCUPANCY: MORE THAN ONE EXIT REQUIRED WHEN OCCUPANT LOAD EXCEEDS 29 EXIT ARRANGEMENT WITH SPRINKLER, NOT LESS THAN ONE-THIRD THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF AREA TO BE SERVED

EXIT ACCESS TRAVEL DISTANCE WITH SPRINKLER SYSTEM PER TABLE 1017.2

B OCCUPANCY: 300'

E OCCUPANCY: 250'

S-1 OCCUPANCY: 250'

MINIMUM CORRIDOR WIDTH:

REQUIRED OCCUPANCY CAPACITY < 50 = 36"

REQUIRED OCCUPANCY CAPACITY ≥ 50 = 44"

PLUMBING FIXTURES: (SECTION 29 TABLE 2902.1)

PLUMBING FIXTURE CALCULATIONS:

	<u>WATER CLOSETS</u>		<u>URINALS</u>	<u>LAVATORIES</u>	
	REQUIRED	PROVIDED	PROVIDED	REQUIRED	PROVIDED
HANGAR	1	1	0	1	1
BUSINESS	3	2	1	2	2
ASSEMBLY (LOBBY)	2	1	0	1	1
EDUCATION SHOP	3	3	1	2	2
TOTAL	9	7	2	7	7
	<u>DRINKING FOUNTAIN</u>		<u>SERVICE SINK</u>		
	REQUIRED	PROVIDED	REQUIRED	PROVIDED:	
HANGAR	1	0	1	0	
BUSINESS	1	1	1	1	
ASSEMBLY (LOBBY)	1	1	1	0	
EDUCATION SHOP	2	2	1	1	
TOTAL	5	4	4	2	

SERVICE SINKS

THE HANGAR AND ASSEMBLY (LOBBY) ARE CONSIDERED ACCESSORY TO THE TERMINAL USE AND THE SERVICE SINKS IN THE TERMINAL (BUSINESS) WILL BE USED FOR THESE TWO SPACES.

DRINKING FOUNTAIN

SINKS AT COFFEE BAR AND BREAKROOM ARE BEING COUNTED AS PART OF THE TOTAL DRINKING FOUNTAIN COUNT.

ICC/ANSI A117.1-2009

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS CLIMATE ZONE 4

METAL BUILDING ROOFS R-19 LINER SYSTEM MINIMUM

METAL BUILDING WALLS R-11 LINER SYSTEM MINIMUM

METAL FRAMED WALLS R-11 INSULATION MINIMUM

SLAB-ON-GRADE FLOORS, UNHEATED SLABS R-10 FOR MINIMUM 24" BELOW GRADE (BECAUSE THE INSULATION WILL ALSO ACT AS PROTECTION BOARD, IT WILL EXTEND DOWN TO THE TOP OF THE FOOTING.)

LINER SYSTEM DEFINED AS: A SYSTEM THAT INCLUDES THE FOLLOWING:

- A CONTINUOUS VAPOR BARRIER LINER MEMBRANE THAT IS INSTALLED BELOW THE PURLINS/GIRTS AND THAT IS UNINTERRUPTED BY FRAMING MEMBERS.
- AN UNCOMPRESSED, UNFACED INSULATION RESTING ON TOP OF THE LINER MEMBRANE AND LOCATED BETWEEN THE PURLINS/GIRTS. FOR MULTILAYER INSTALLATIONS, THE LAST RATED R-VALUE OF INSULATION IS FOR UNFACED INSULATION DRAPED OVER PURLINS/GIRT AND THEN COMPRESS WHEN THE METAL PANELS ARE ATTACHED.



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1627 MAIN STREET, SUITE 100
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

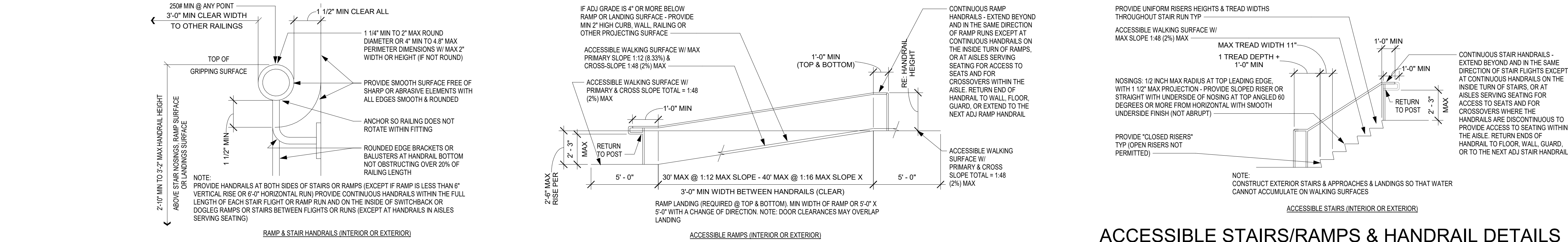
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CHECKED BY: WAI		
APPROVED BY: WAI		
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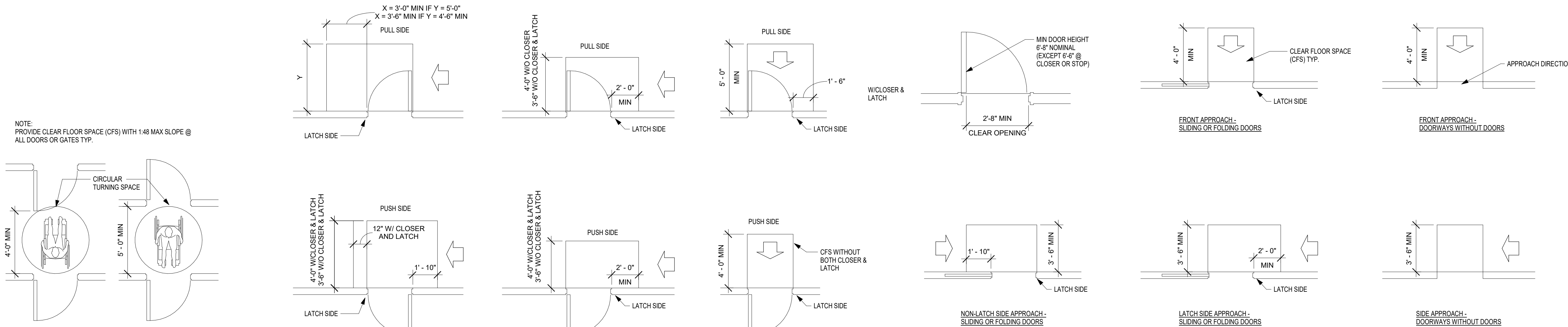
CODE INFORMATION AND WALL TYPES

AG003

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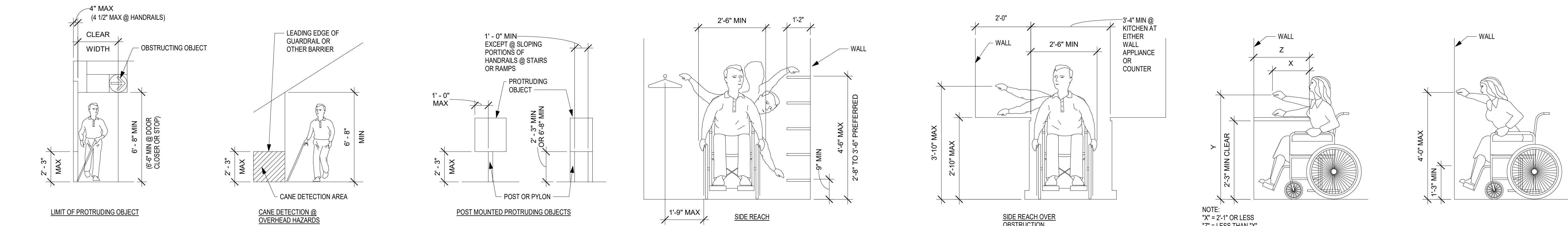


ACCESSIBLE STAIRS/RAMPS & HANDRAIL DETAILS

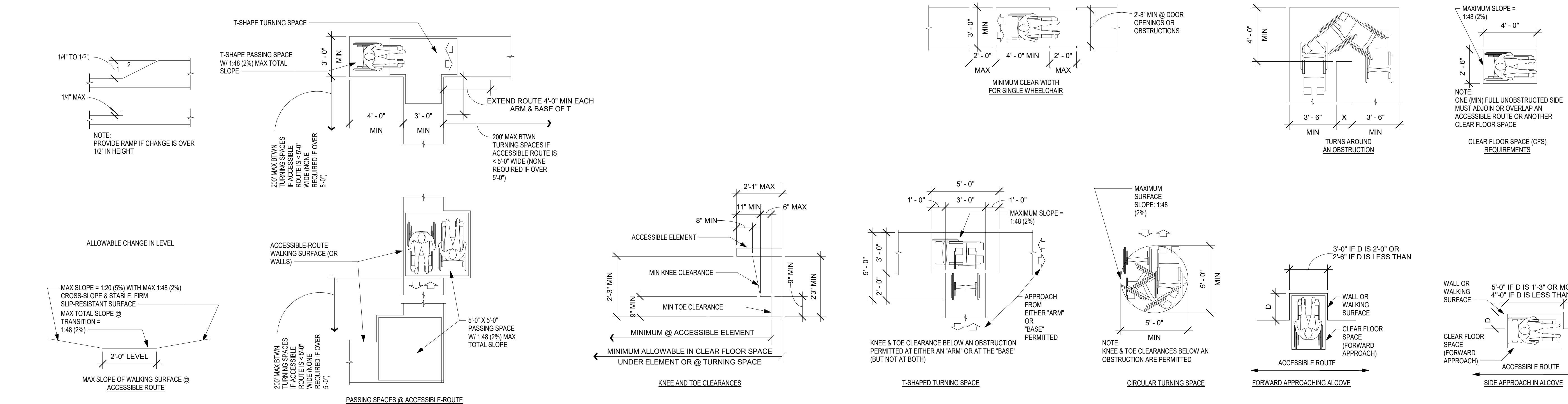


DOOR OR GATE CLEARANCES

RE: CLEAR SPACE REQUIREMENTS FOR MIN DOOR OPENINGS WIDTHS
RE: CLEAR SPACE REQUIREMENTS FOR INTERIOR SIGNAGE



PROTRUDING OBJECTS



ACCESSIBLE ROUTES REQUIREMENTS

CLEAR SPACE REQUIREMENTS

THE INFORMATION ON THESE ACCESSIBILITY DRAWINGS IS PROVIDED AS A GUIDE TO THE CONTRACTOR AND TO ANY OTHER ENTITIES INSTALLING BUILDING EQUIPMENT OR FIXTURES. THESE DRAWINGS ARE ABREVIATED AND DO NOT INDICATE ALL CONDITIONS THAT MAY BE ENCOUNTERED AND THEY DO NOT INCLUDE ALL REQUIREMENTS OF EITHER THE ADA OR ICC/ANSI A117.1 IN THEIR ENTIRETY.

THE AMERICANS WITH DISABILITIES ACT (ADA) IS A CIVIL RIGHTS LAW (NOT A BUILDING CODE) AND IS THEREFORE NOT NECESSARILY ENFORCEABLE BY AUTHORITIES HAVING JURISDICTION. EXCEPT IN CERTAIN STATES WITH THEIR OWN ACCESSIBILITY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO CALIFORNIA, TEXAS & ILLINOIS), THE ACCESSIBILITY REQUIREMENTS OF ICC/ANSI A117.1 ARE TYPICALLY REQUIRED THROUGH THE BUILDING CODE.

COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) EVEN IF NOT REQUIRED BY BUILDING CODES, REGULATIONS OR ORDINANCES (ADA IS A FEDERAL LAW), AND AS INDICATED ON THESE DRAWINGS.

ACCESSIBLE ROUTE:

PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB RAMPS (EXCLUDING THE FLARED SIDES), DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS.

ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF TRAVEL. MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNDO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNDO.

ACCESSIBLE BUILDING ENTRANCES:

PROVIDE 60% (MIN) OF ALL PUBLIC BUILDING ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.

PROVIDE ONE (1) - MIN ACCESSIBLE BUILDING ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1) - MIN ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BUILDING.

PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.

MULTI-LEVEL BUILDINGS: PROVIDE ONE (1) - MIN ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR) TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS (INCLUDING MEZZANINES) (UNLESS THE FLOOR AREA IS LESS THAN 1,000 SF AND DOES NOT INCLUDE FIVE (5) OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS).

OPERABLE PARTS:

ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).

PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS.

OPERATION: BY USE OF ONE (1) HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH FIVE (5.0) POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF OPERABLE PARTS.

ACCESSIBLE DOOR & GATE REQUIREMENTS:

REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.

SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS.

RECESSED DOORS: PROVIDE FORWARD APPROACH CLEARANCE WITH ANY OBSTRUCTION WITHIN 18 INCH OF LATCH SIDE OF DOORWAY PROJECTING MORE THAN 6 INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR.

DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN TEN (10) INCH AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16 INCH BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE), CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS. TEMPERED GLASS DOORS WITHOUT SIDE STILES WITH A BOTTOM RAIL WITH ITS TOP EDGE SLOPED 60 DEGREES FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 10 INCHES AFF.

SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OR MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONE PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 45 INCHES MAXIMUM AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 68 INCHES AFF.

ACCESSIBLE DOOR & GATE HARDWARE:

PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS, PUSH-PULLS, OR PIVOT DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4 INCH BTWN 34" - 80 INCH AFF.

SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN.

DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE FIVE (5) SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90-DEGREE OPEN-POSITION TO 12-DEGREE OPEN-POSITION.

DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MINIMUM TIME TO MOVE DOOR/GATE FROM 70-DEGREE OPEN-POSITION TO CLOSED-POSITION.

OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQD BY AUI).

AUTOMATIC DOORS OR GATES:

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD, FLOOR-SURFACE, AND DOORS-IN-SERIES REQUIREMENTS.

MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQ'TS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

ACCESSIBLE WINDOWS:

PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQ'TS W/ MIN ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW.

SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):

COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX (WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS:

MAXIMUM TRAVEL HEIGHT: 60 INCHES
MINIMUM CAPACITY: 400 POUNDS
MINIMUM PLATFORM SIZE: 30 X 48 INCH
MAXIMUM SPEED: 20 FPM



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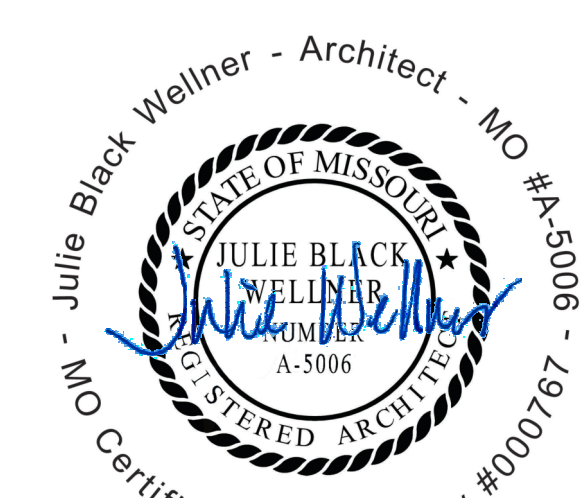
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: DM
DRAWN BY: KP
CHECKED BY: JW
APPROVED BY: KP
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SHEET TITLE

GENERAL
ACCESSIBILITY

AG004

SHEET 054 OF 131

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



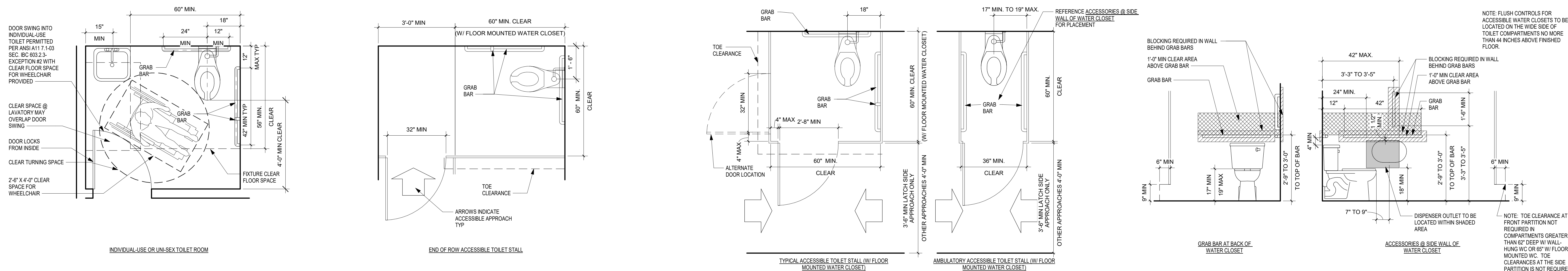
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INTERIOR ACCESSIBILITY

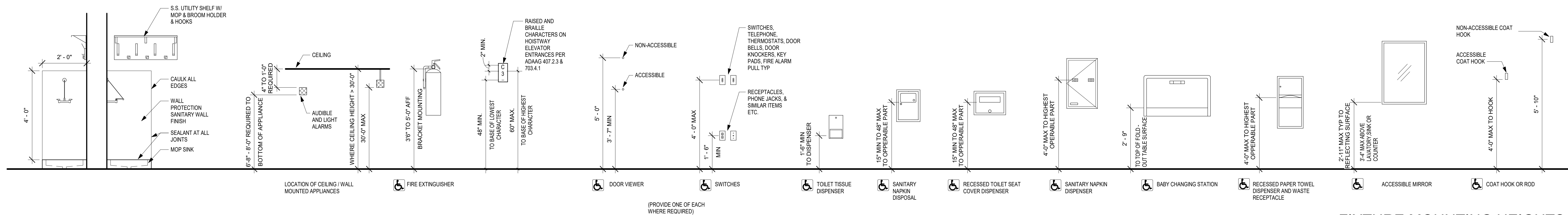
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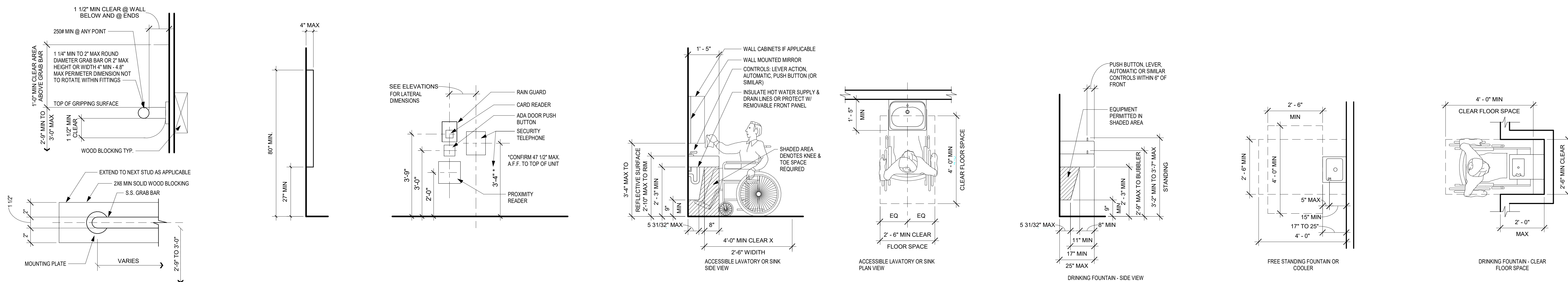


TOILET APPROACHES FOR PUBLIC RESTROOMS

ACCESSIBLE TOILETS



FIXTURE MOUNTING HEIGHTS



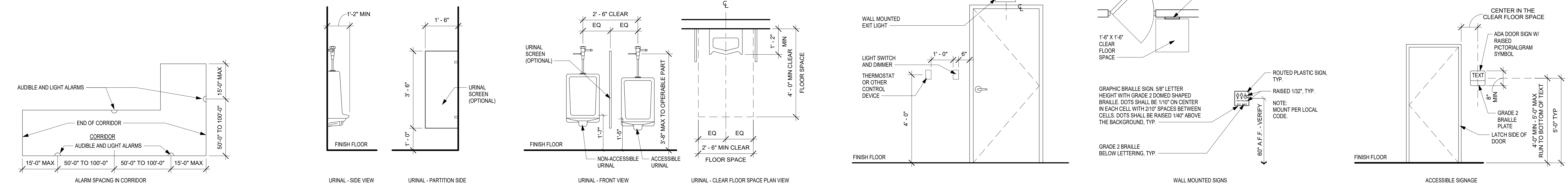
GRAB BAR DETAIL

PROTRUDING OBJECTS

SECURITY DEVICE MOUNTING DIAGRAM

ACCESSIBLE LAVATORY OR
SINK

DRINKING FOUNTAINS



ALARM SPACING IN CORRIDOR

URINALS AND URINAL PARTITION

MISC APPLIANCE HEIGHTS

INTERIOR SIGNAGE

11/8/2023 2:32:36 PM



LEE'S SUMMIT
MISSOURI
CODE MODIFICATION REQUEST
(COMMERCIAL)

BUILDING/STRUCTURE NAME: LEE'S SUMMIT AIRPORT EASTSIDE DEVELOPMENT AND HANGAR 2

PREMISE ADDRESS: 2740 NE HAGAN RD, LEES SUMMIT, MO 64064

PERMIT NUMBER (if applicable): PRCOM20235113

OWNER'S NAME: City of Lee's Summit, MO

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

We request modification to use 2024 IBC 2902.1.2 to count single user toilets in fixture count, and 2902.2.5 to not designate single-user toilet rooms by sex.

SUBMITTED BY:
NAME: Julie Wellner, AIA () OWNER (x) OWNER'S AGENT
ADDRESS: 1627 Main, #100 Tel.# 816-381-9040
CITY, STATE, ZIP: Kansas City, MO 64108 SIGNATURE: Julie Wellner

TRACY DEISTER – MANAGER OF CODES ADMINISTRATION: (X) APPROVAL () DENIAL
SIGNATURE: Tracy Deister DATE:

AIMEE NASSIF – DEPUTY DIRECTOR OF DEVELOPMENT SERVICES: [X] APPROVED () DENIED

SIGNATURE: Aimee Nassif DATE: 10/25/23

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

9/18/2023 N:\CODES ADMIN\Forms 2019
Development Services | 220 SE Green Street, Lee's Summit, MO 64063
P: 816.969.1200 | F: 816. 969.1201 | cityofls.net



Reorganized School District No. 7
502 S.E. Transport Drive
Lee's Summit, Missouri 64081
(816) 986-2438 FAX (816) 986-2435

Facilities Services

September 20, 2023

City of Lee's Summit – Development Services
220 SE Green
Lee's Summit, MO 64063

RE: Lee's Summit School District – STA – Aerospace Academy
Program Enrollment Capacity

To Whom It May Concern:

Please accept this letter as your Notice of Lee's Summit R7 School District's understanding of the allowable occupancy for the new building being designed and constructed in partnership with the City of Lee's Summit.

Lee's Summit R7 School District will limit our space's capacity to 49 occupants. This is being done to satisfy the building code regarding storm shelter requirements in educational buildings.

Please get in touch with me with any questions you may have. I can be reached at 816-986-3414. We look forward to working with your team and anticipate a successful project for all.

Sincerely,
Lee's Summit R-7 School District

Jeremy Bonnesen
Dr. Jeremy Bonnesen
Principal | Director
STA @ Missouri Innovation Campus

Cc: Kyle Gorrell / Steve Shelton / David Mandelkem – Wellner Architects)
file



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	REV: 1	DESCRIPTION
1	11/10	REV: 1	
PROJECT NO: 2219			
CAD DWG FILE: Lee's Summit - Hangar 2.rvt			
DESIGNED BY: Designer			
DRAWN BY: Author			
CHECKED BY: Checker			
APPROVED BY: Approver			
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SHEET TITLE

CODE INFORMATION



SHEET 056 OF 131

9/29/2023 11:04:13 AM



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KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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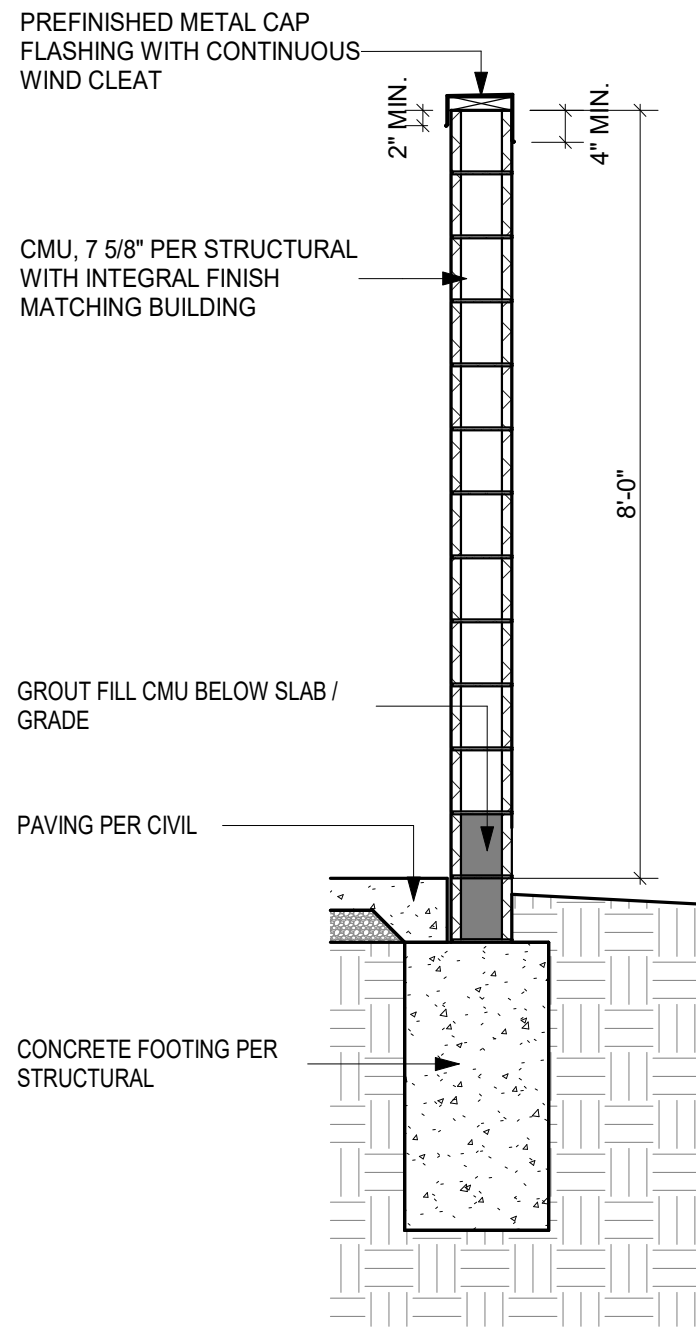
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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	DM
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	WAI
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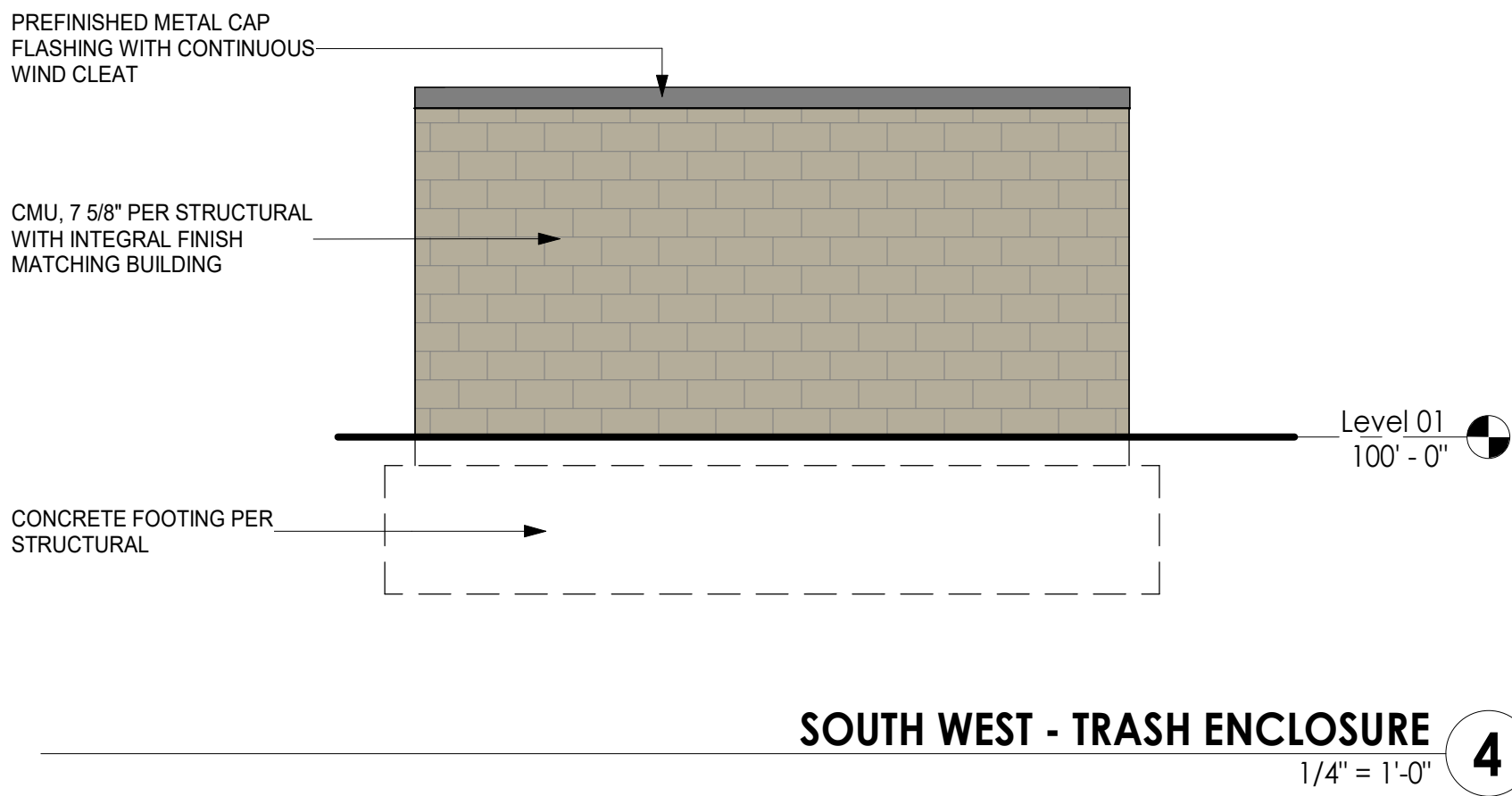
ARCHITECTURAL SITE
DETAILS

A100

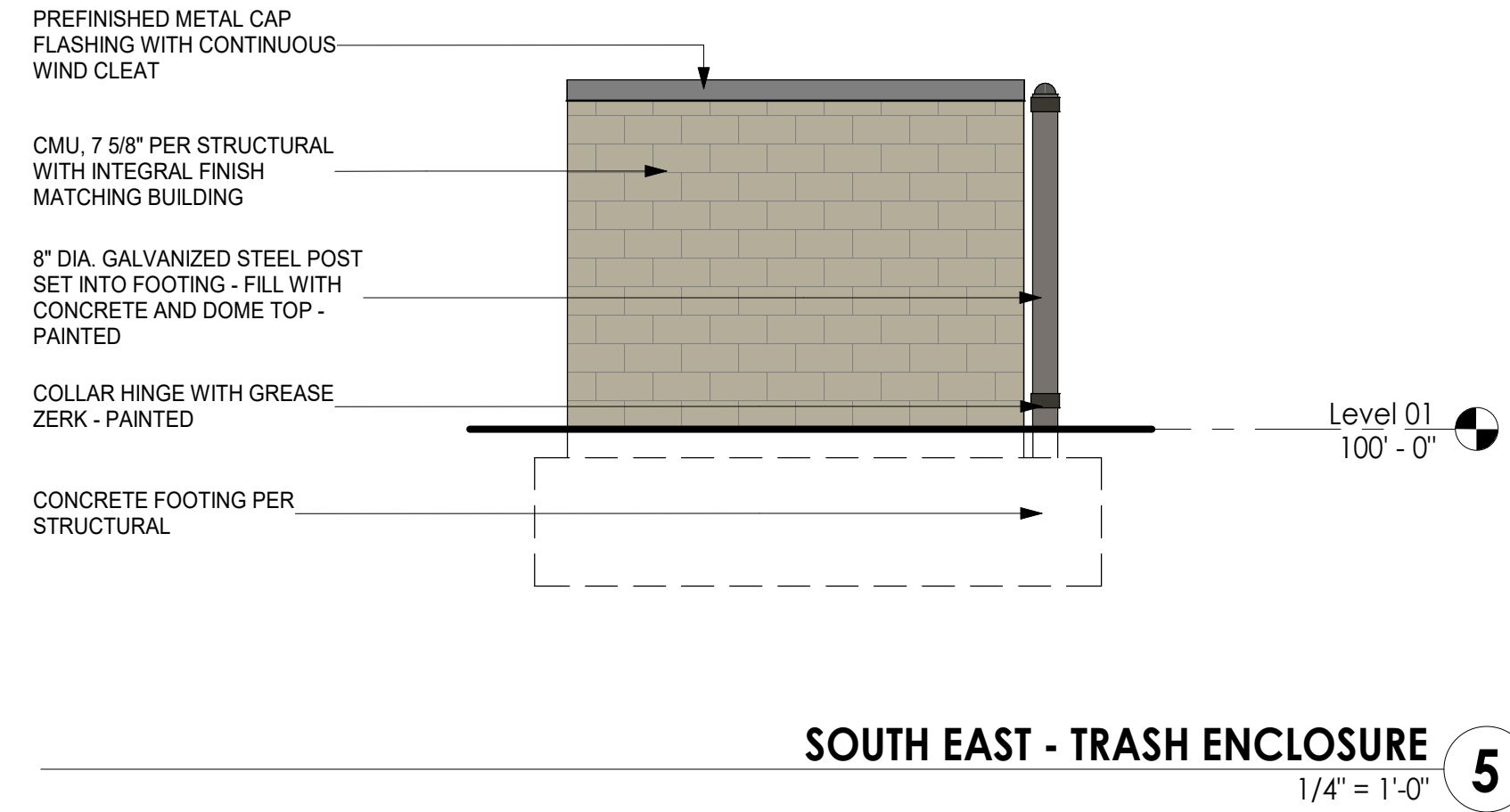
SHEET 057 OF 131



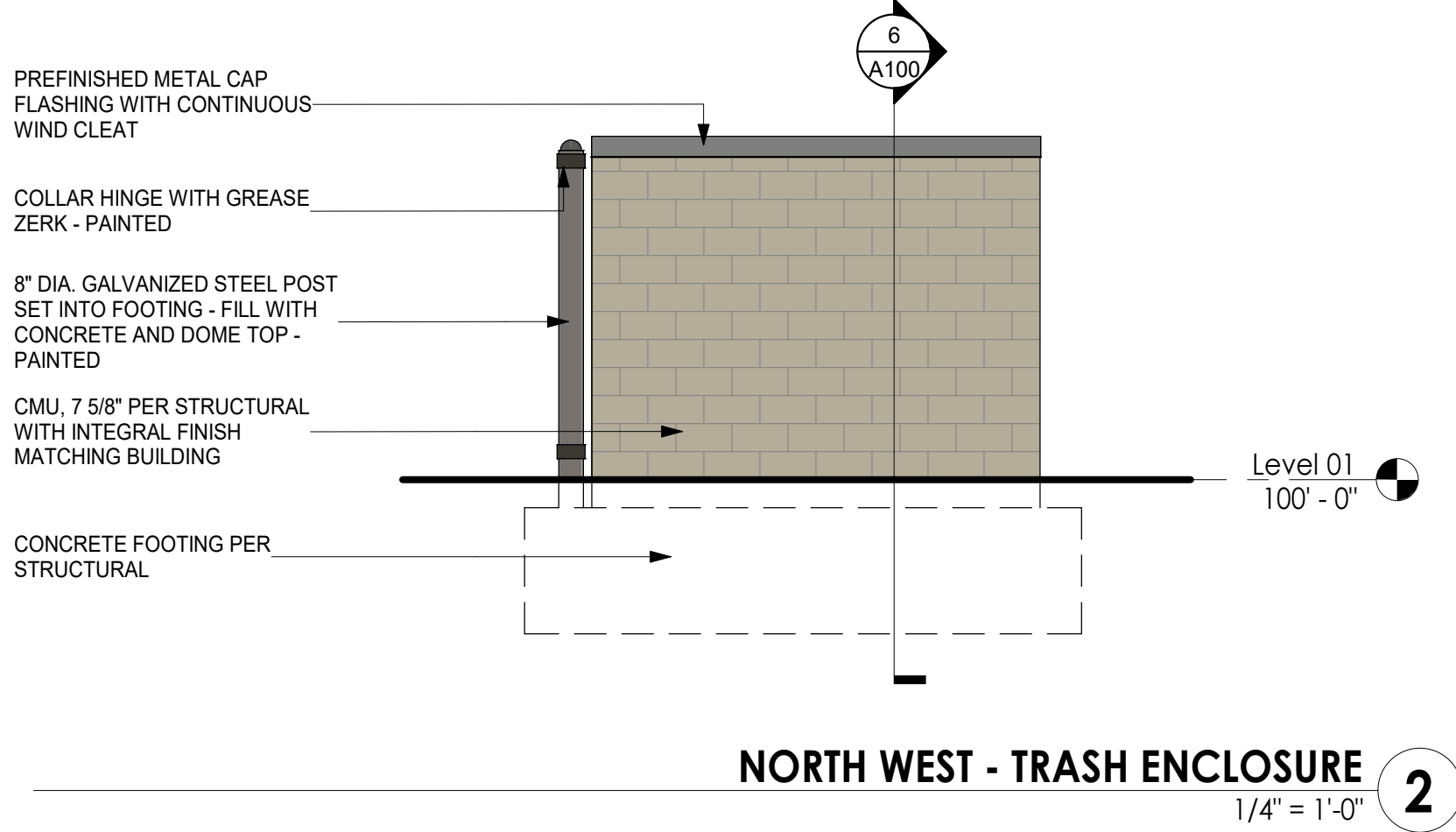
WALL SECTION - TRASH ENCLOSURE
1/2" = 1'-0" 6



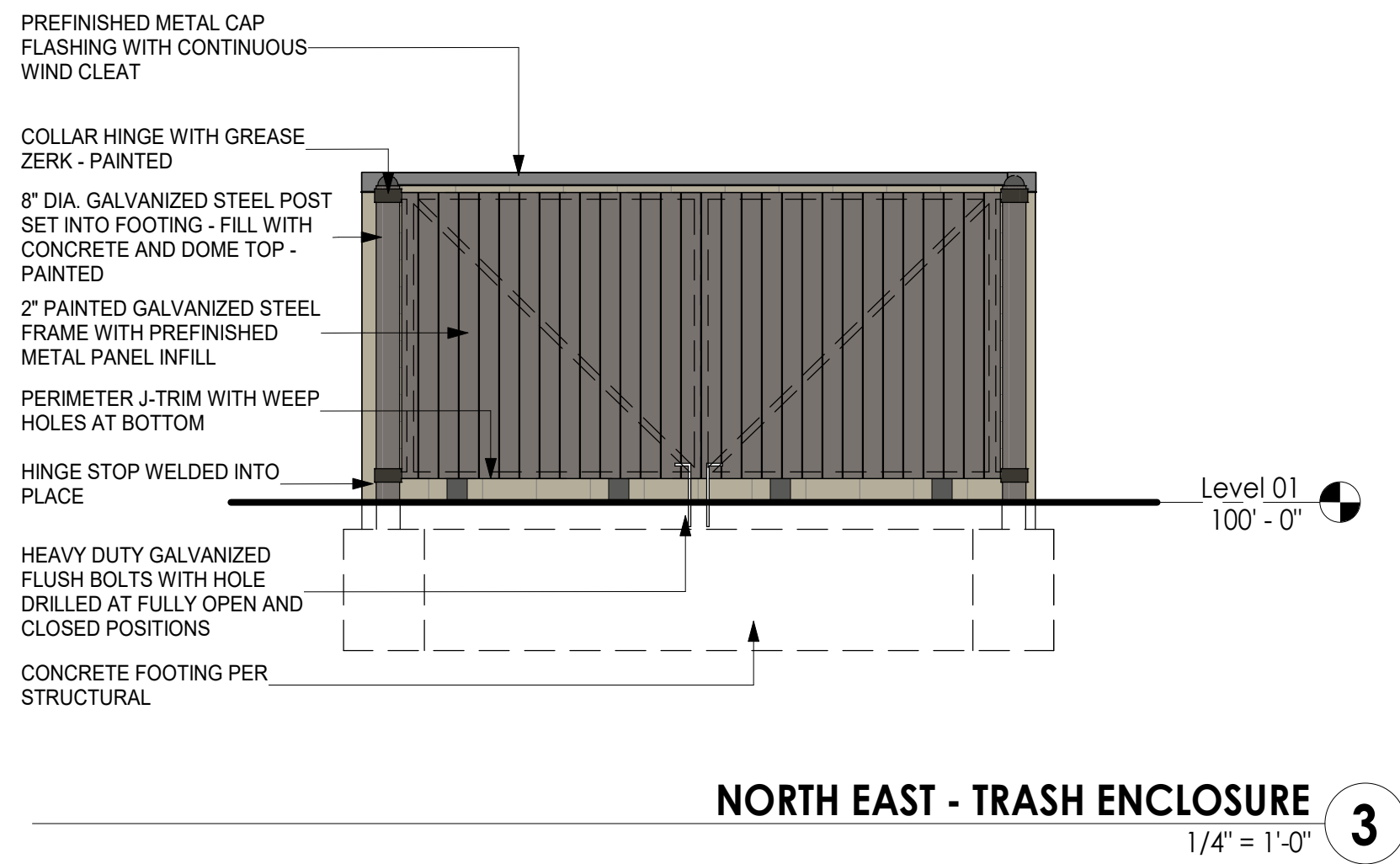
SOUTH WEST - TRASH ENCLOSURE
1/4" = 1'-0" 4



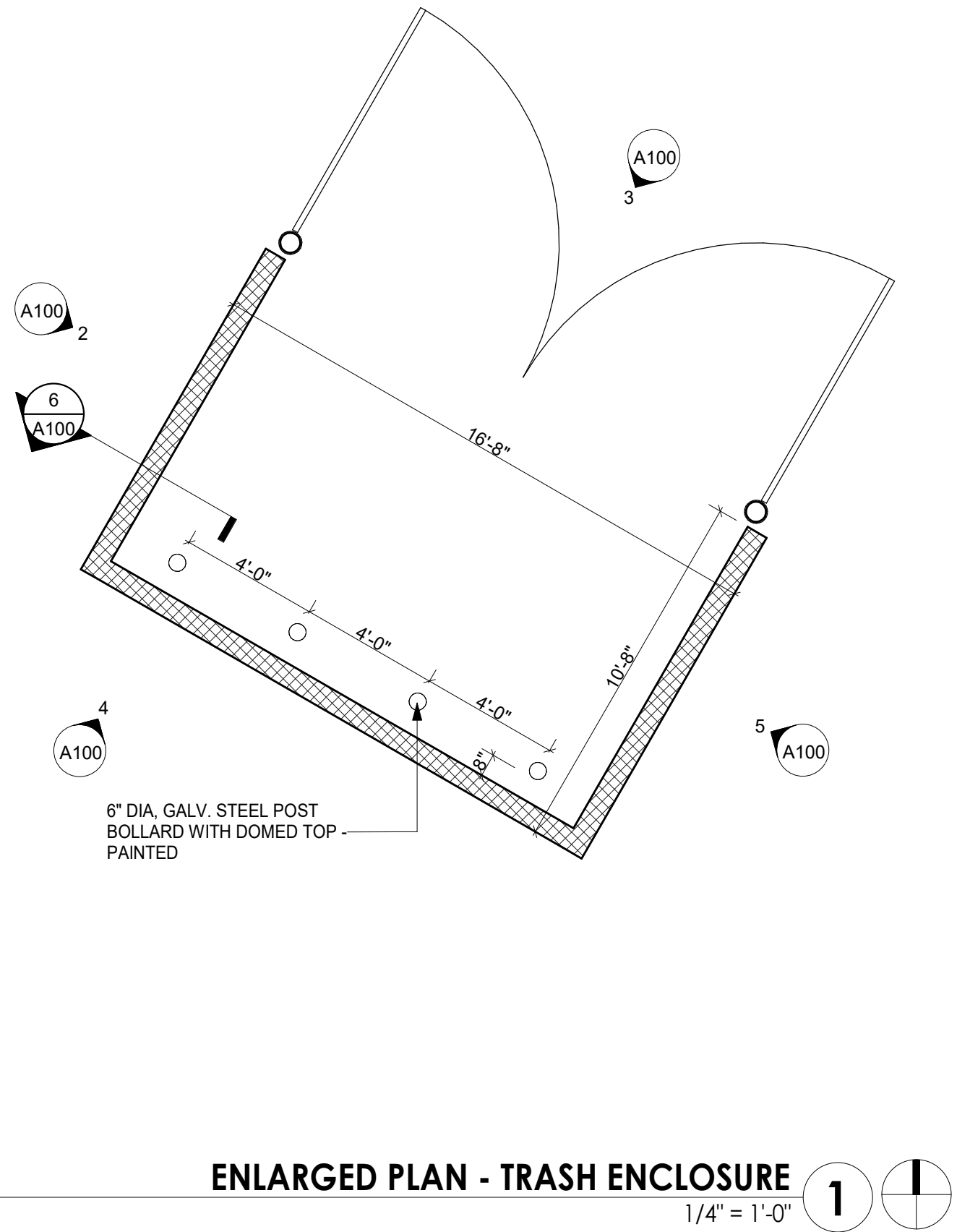
SOUTH EAST - TRASH ENCLOSURE
1/4" = 1'-0" 5



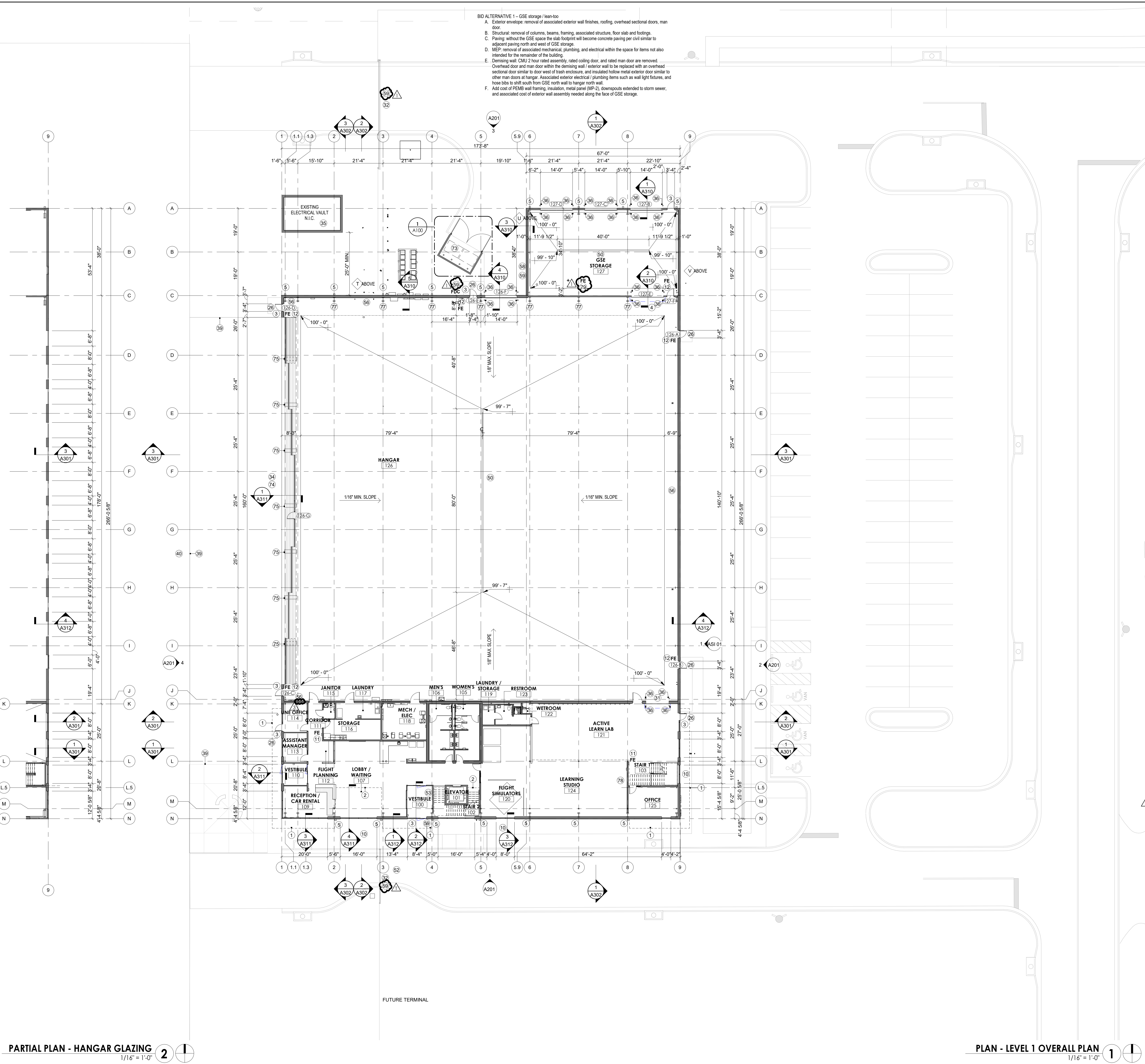
NORTH WEST - TRASH ENCLOSURE
1/4" = 1'-0" 2

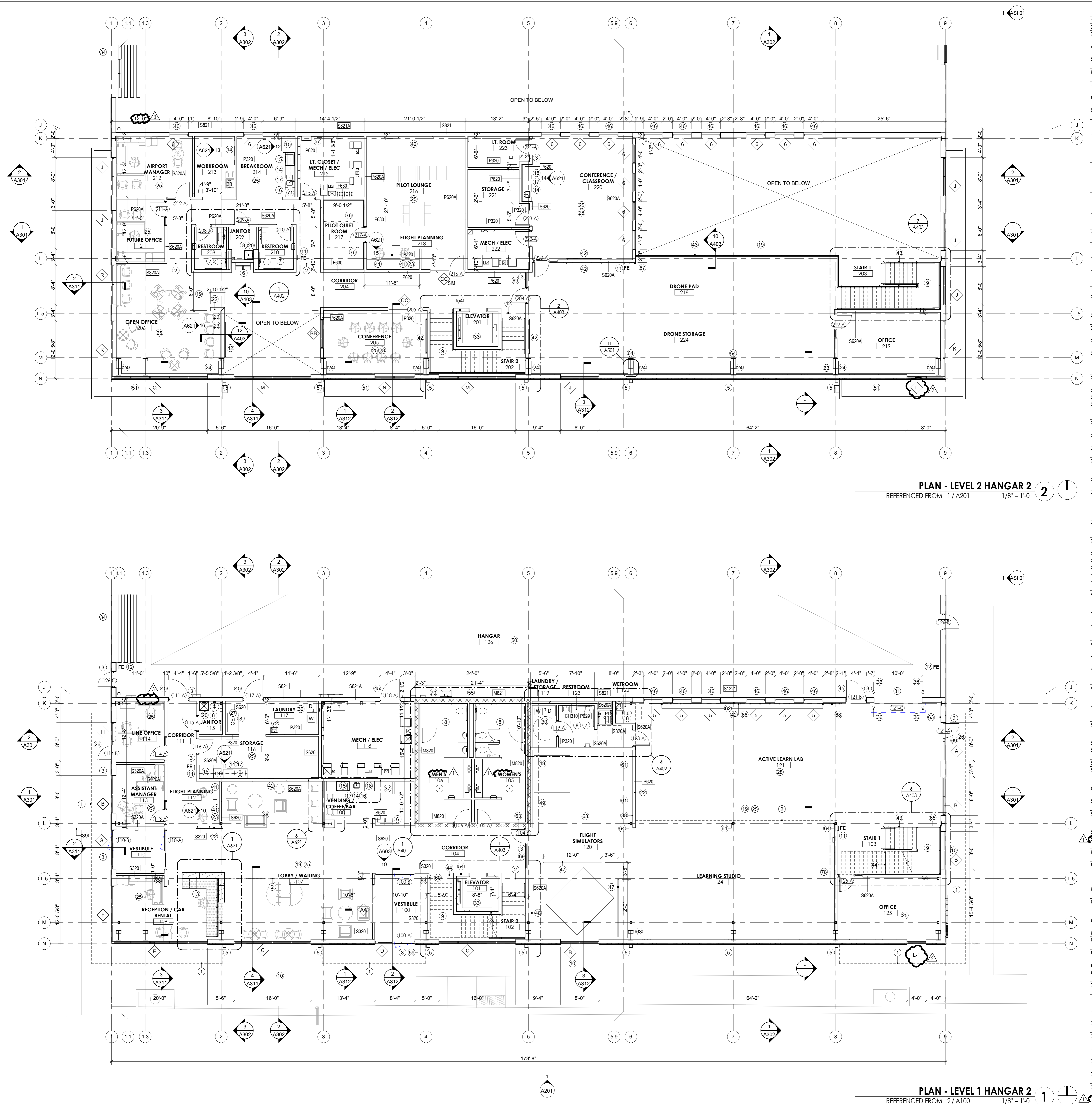


NORTH EAST - TRASH ENCLOSURE
1/4" = 1'-0" 3



ENLARGED PLAN - TRASH ENCLOSURE
1/4" = 1'-0" 1





PLAN - LEVEL 1 HANGAR 2
REFERENCED FROM 2 / A100
1/8" = 1'-0"

CONSTRUCTION NOTES (#)		
1	LINE OF CANOPY ABOVE	
2	LINE OF SOFFIT / SLAB EDGE ABOVE	
3	FURNISH AND INSTALL ACCESS CONTROLS ON DOORS PER OWNER REQUIREMENTS AND HARDWARE SCHEDULE	
4	FURNISH AND INSTALL 2 HOUR RATED FIRE RATED CEILING OVERHEAD DOOR PER DOOR SCHEDULE	
5	FURNISH AND INSTALL PREFINISHED DOWNSPOUT WITH INTEGRAL OVERFLOW AND CONNECT TO STORM SEWER PER CIVIL	
6	FURNISH AND INSTALL HIGH / LOW DRINKING FOUNTAIN WITH BOTTLE FILLER PER PLUMBING AND ADA	
7	REFER TO ENLARGED PLANS AND ELEVATIONS FOR RESTROOM LAYOUT AND ACCESSORIES PER ADA	
8	FURNISH AND INSTALL FLOOR DRAIN PER PLUMBING, SLOPE SLABS AS NEEDED TO PROVIDE DRAINAGE	
9	FURNISH AND INSTALL CONCRETE FILLED METAL PAN STAIR WITH GUARDRAIL AND CONTINUOUS HANDRAILS PER DETAILS	
10	FURNISH AND INSTALL DECORATIVE GRAVEL STRIP AROUND BUILDING PER LANDSCAPE PLANS	
11	FURNISH AND INSTALL 3A-40BC RATED F.E. (min 5lbs.) IN SEMI RECESSED STAINLESS STEEL CABINET MOUNTED NO HIGHER THAN 5'-0" TO T.O. EXTINGUISHER. MONROE EXTINGUISHER COMP - ADA 1027.10 WITH V style door. VERIFY FINAL QUANTITY AND LOCATION WITH FIRE MARSHAL AND CONFIRM WITH ARCHITECT	
12	FURNISH AND INSTALL 3A-40BC RATED F.E. (min 5lbs.) IN SEMI RECESSED STAINLESS STEEL CABINET MOUNTED NO HIGHER THAN 5'-0" TO T.O. EXTINGUISHER. MONROE EXTINGUISHER COMP - ADA 1027.10 WITH V style door. VERIFY FINAL QUANTITY AND LOCATION WITH FIRE MARSHAL AND CONFIRM WITH ARCHITECT	
13	FURNISH AND INSTALL CHECK-IN DESK PER DETAILS. PROVIDE ADEQUATE POWER AND DATA TO FLOOR STUB FOR 2 COMPUTERS, AND PRINTER	
14	FURNISH AND INSTALL LOWER AND UPPER CASEWORK AND COUNTER TOPS PER INTERIOR ELEVATIONS, DETAILS, AND FINISH PLANS	
15	FURNISH AND INSTALL ADEQUATE ELECTRICAL FOR OWNER PROVIDED REFRIGERATOR, AND MICROWAVE	
16	FURNISH AND INSTALL ADEQUATE ELECTRICAL AND WATERLINE FOR COFFEE MAKER	
17	FURNISH AND INSTALL UNDERMOUNT STAINLESS STEEL SINK WITH DISPOSAL PER PLUMBING, ADA AND DETAILS	
18	FURNISH AND INSTALL ADA COUNTER HEIGHT UNDERCOUNTER FRIDGE WITH ADEQUATE POWER AND CASEWORK TRIM PIECES FOR BUILT IN APPEARANCE	
19	PAINT ALL EXPOSED STRUCTURE PER FINISH PLANS	
20	FURNISH AND INSTALL JANITORS MOP BASK WITH CUSTODIAL MOP AND BROOM HOLDER AND FRP PER FINISH LEGEND ON ADJACENT WALLS BEYOND MOP SINK	
21	FURNISH AND INSTALL PULL DOWN IN WALL EMERGENCY SHOWER AND EYE WASH STATION PER PLUMBING	
22	FURNISH AND INSTALL 48" TALL LOW WALL WITH SOLID SURFACE CAP PER FINISH PLANS AND LEGEND	
23	FURNISH AND INSTALL COUNTER TOP AT 36" A.F.F. PER INTERIOR ELEVATIONS, DETAILS, AND FINISH LEGEND	
24	PROVIDE EXPANSION JOINT BETWEEN SECOND FLOOR SLAB AND PEMB STRUCTURE AND EXTERIOR WALL PER DETAILS. PEMB STRUCTURE TO BE LIMITED TO 3'-3" MAX COLUMN DEPTH AT AND FLOOR	
25	GC TO COORDINATE AND PROVIDE INSTALLATION OF OWNER PROVIDED FURNITURE	
26	FURNISH AND INSTALL STOOPS EXTERIOR DOORS PER STRUCTURAL	
27	FURNISH AND INSTALL WATER LINE OF ICE MAKER	
28	FURNISH AND INSTALL IN SLAB FLOOR OUTLETS FOR POWER / DATA / VOICE. COORDINATE FINAL LOCATIONS WITH FURNITURE SUPPLIER AND OWNER AND CONFIRM WITH ARCHITECT	
29	FURNISH AND INSTALL OUTLETS AT WALL OF COUNTER FOR CHARGING STATIONS	
30	FURNISH AND INSTALL ADEQUATE POWER, PLUMBING, AND VENTILATION FOR WASHER AND DRYER	
31	FURNISH AND INSTALL 1 HOUR RATED FIRE RATED CEILING OVERHEAD DOOR PER DOOR SCHEDULE	
32	FURNISH AND INSTALL SECURED SLIDING GATE. PROVIDE CONDUIT AND ADEQUATE POWER AND CONTROLS PER OWNER REQUIREMENTS	
33	FURNISH AND INSTALL ELEVATOR EQUIPMENT PER SUPPLIER. SCHINDLER 3100 MRL TRACTION ELEVATOR IS BASIS OF DESIGN	
34	FURNISH AND INSTALL "FLOATING" 180'-0" X 28'-0" HANGAR DOOR WITH CONTINUOUS HEAVY 12 GAUGE GALVANIZED STEEL ANGLE FLASHINGS ON BOTH SIDES OF EACH RAILING PROVIDING A FLUSH SURFACE AND LEVEL CROSSING FOR AIRCRAFT. PROVIDE ADEQUATE POWER, TRACK HEATING AND DRAINAGE PER DETAILS	
35	EXISTING ELECTRICAL VAULT TO REMAIN. COORDINATE CONSTRUCTION ACTIVITIES AS TO NOT DISRUPT SERVICE PROVIDED FROM THIS BUILDING	
36	FURNISH AND INSTALL 6" DIAMETER CONCRETE FILLED GALVANIZED PIPE BOLLARDS PER DETAIL - PAINTED	
37	PROVIDE ADEQUATE POWER FOR VENDING MACHINES	
38	PROVIDE ADEQUATE POWER / DATA FOR COPIER / PRINTER	
39	LINE OF CONCRETE APRON. REFER TO CIVIL	
40	EXISTING APRON. REFER TO CIVIL	
41	PROVIDE ADEQUATE POWER / DATA CONNECTIONS FOR COMPUTER WORKSTATION	
42	FURNISH AND INSTALL BLOCKING AND ELECTRICAL DATA FOR OWNER PROVIDED FLAT SCREEN TV'S. FINAL LOCATIONS AND MOUNTING HEIGHT TO BE VERIFIED WITH OWNER	
43	FURNISH AND INSTALL CABLE GUARD RAILING AT 42" A.F.F. PER DETAILS	
44	FURNISH AND INSTALL RAILING PER DETAILS AT UNDERSIDE OF STAIR OR AS SHOWN IN PLAN AT UNDERSIDE OF STAIRS TO MEET ADA	
45	FURNISH AND INSTALL 1 HOUR RATED DOOR AND GLAZING PER DETAILS AND SCHEDULES	
46	FURNISH AND INSTALL 1 HOUR RATED GLAZING IN HOLLOW METAL FRAMES AT RATED WALLS PER DETAILS	
47	FURNISH AND INSTALL REMOVABLE RAILING AROUND FLIGHT SIMULATOR. COORDINATE FINAL LAYOUT AND CLEARANCES WITH OWNER	
48	PROVIDE ADEQUATE POWER / DATA CONNECTION FOR OWNER PROVIDED REDBIRD AIMS FLIGHT SIMULATOR. COORDINATE INSTALLATION AND CLEAR SPACE FOR RAILING WITH OWNER	
49	PROVIDE ADEQUATE POWER / DATA CONNECTION FOR OWNER PROVIDED REDBIRD LD FLIGHT SIMULATORS. COORDINATE INSTALLATION AND CLEAR SPACE WITH OWNER	
50	FURNISH AND INSTALL TRENCH DRAINS WITH OIL / SAND INTERCEPTOR REFER TO PLUMBING, SLOPE FLOOR TO TRENCH AND FLOOR DRAIN SYSTEMS	
51	CANOPY PER DETAILS	
52	FURNISH AND INSTALL CONDUIT FOR FUTURE RUNS BETWEEN HANGAR AND FUTURE TERMINAL BUILDING PER CIVIL	
53	FURNISH AND INSTALL FIRE ANNUNCIATOR PANEL	
54	FURNISH AND INSTALL 8'X16" CMU WITH INTEGRAL 8" SCORE PATTERN AND MATCHING CMU FINISH COLOR, RAKE ALL MORTAR JOINTS TO ALIGN WITH CMU SCORE PATTERN	
55	FURNISH AND INSTALL SANITARY LAVATORY LINE AND FIXTURE FOR AIRPLANE WASTE DISPOSAL	
56	FURNISH AND INSTALL LINER PANEL TO GIRTS FROM FLOOR TO 10'-0" AFF AT PERIMETER WALLS	
57	FURNISH AND INSTALL 3/4" FIRE TREATED PLYWOOD PANEL 8' WIDE X 8' TALL OR WALL MOUNTED I.T. CONFIRM FINAL LOCATION WITH OWNER	
58	FIRE DEPARTMENT CONNECTION (FDC) KNOX BOX AT DOOR ABOVE FDC. KNOX KEY SWITCHES AT OPERABLE GATES. COORDINATE SIZE/LOCATION WITH AHJ AND OWNER	
59	ELEVATOR KEY KNOX BOX ADJACENT TO ELEVATOR. COORDINATE SIZE AND LOCATION WITH AHJ AND OWNER	
60	PROVIDE ADEQUATE POWER / DATA CONNECTION FOR OWNER PROVIDED OPEN FLIGHT SIMULATORS. PROVIDE BLOCKING AS NEEDED FOR MONITORS MOUNTED TO WALL PER OWNER REQUIREMENTS	
61	FURNISH AND INSTALL WALL MOUNTED POWER TRACK AT 3'-4" A.F.F. BETWEEN STRUCTURAL GRIDS 6 TO 8	
62	FURNISH AND INSTALL CONDUIT / ROUGH AND CAT 6 FOR OWNER PROVIDED SECURITY CAMERAS PER OWNER REQUIREMENTS, COORDINATE MOUNTING HEIGHT WITH OWNER	
63	FURNISH AND INSTALL CONDUIT WITH POWER AND DATA ALONG COLUMNS WITH POWER REEL. REFER TO ELECTRICAL DRAWINGS	
64	PROVIDE ADEQUATE POWER FOR BATTERY CHARGING STATIONS	
65	FURNISH AND INSTALL POWER FOR WIFI ROUGH IN AT 12'-0" A.F.F. CONFIRM FINAL LOCATIONS WITH OWNER	
66	FURNISH AND INSTALL 2" X 2" X 48" STAINLESS STEEL CORNER GUARDS AT 1'-2" A.F.F.	
67	PROVIDE POWER FOR AIR COMPRESSOR	
68	FURNISH AND INSTALL S64 SCHOOL GUARD GLASS AT DOORS AND SIDEGLAZES	
69	FURNISH AND INSTALL STAINLESS STEEL WALL MOUNTED SINK WITH EMERGENCY EYE WASH STATION PER PLUMBING	
70	FURNISH AND INSTALL ADA COUNTER HEIGHT DISHWASHER PROVIDE ADEQUATE POWER AND WATER CONNECTIONS PER MEP	
71	FURNISH AND INSTALL STAINLESS STEEL WALL MOUNTED SINK PER PLUMBING, PROVIDE INSULATED COVERING PER ADA	
72	REFER TO ENLARGED PLANS AND ELEVATIONS FOR TRASH ENCLOSURE DETAILS	
73	FURNISH AND INSTALL STEEL CONDUIT UNDER TRACKS FOR HEATING PER ELECTRICAL. REFER TO DETAILS	
74	FURNISH AND INSTALL RAIL DRAINAGE COLLECTORS AND DIVERT IT TO BUILDING DRAINAGE PER PLUMBING	
75	FURNISH AND INSTALL SEMI-TRANSPARENT BLACK MESH CURTAINS WITH SILENT TRACK / CURTAIN RINGS	
76	FURNISH AND INSTALL PAINT AT FRONT FACE OF PEMB COLUMNS TO 28'-0" IN CONTRASTING COLOR PER FINISH LEGEND	
77	FURNISH AND INSTALL 180" WALL MOUNTED DIAGONAL PROJECTOR SCREEN. PROVIDE BLOCKING AS NEEDED	
78	FURNISH AND INSTALL 4A-20C RATED F.E. SURFACE MOUNTED NO HIGHER THAN 5'-0" TO T.O. EXTINGUISHER. VERIFY FINAL QUANTITY AND LOCATION WITH FIRE MARSHAL AND CONFIRM WITH ARCHITECT	



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



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1301 BURLINGTON STREET
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LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

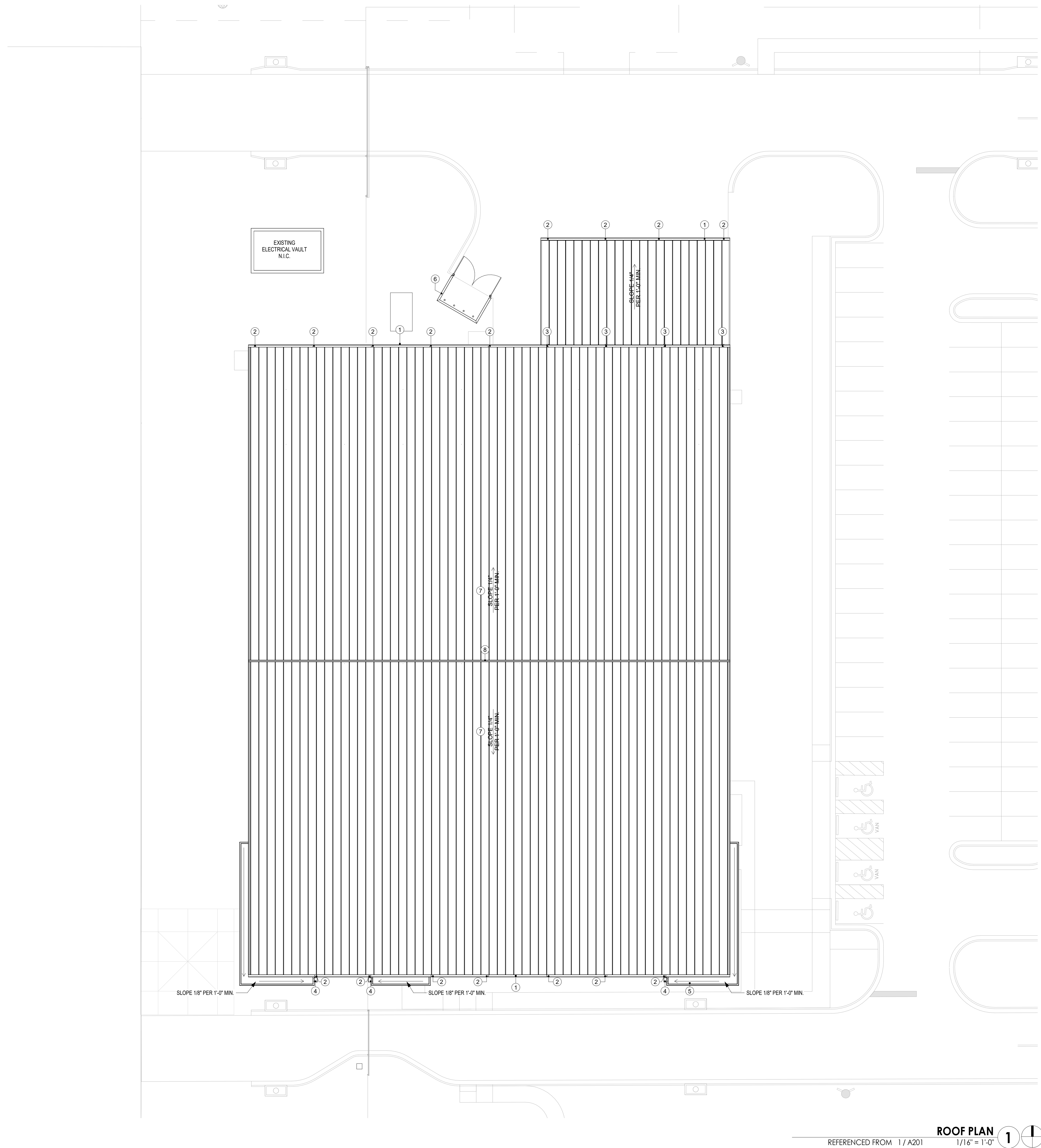
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2	12/01/	REV-2
1	12/01/	REV-1

SHEET TITLE

FLOOR PLANS

A102

SHEET 059 OF 131



ROOF PLAN

1

REFERENCED FROM 1 / A20

$$1/16'' = 1''$$

CONSTRUCTION NOTES - ROOF

- 1 FURNISH AND INSTALL 7 1/2" X 10" PREFINISHED METAL GUTTER
- 2 FURNISH AND INSTALL 8" X 8" PREFINISHED METAL DOWNSPOUTS CONNECTED TO STORM PIPE PER CIVIL. COORDINATE SLEEVE IN FOUNDATIONS WHERE NEEDED PER STRUCTURAL
- 3 FURNISH AND INSTALL 8" X 8" PREFINISHED METAL DOWNSPOUTS DISCHARGING ON ROOF BELOW
- 4 FURNISH AND INSTALL THROUGH WALL SCUPPER AND COLLECTOR BOX WITH DOWNSPOUT TIED INTO PRIMARY ROOF DOWNSPOUT
- 5 FURNISH AND INSTALL 60ML GRAY FULLY ADHERED MEMBRANE, 10' WIDE, THROUGH SLOPE STOP FLASHING AT CANOPIES, REFER TO DETAILS
- 6 FURNISH AND INSTALL PREFINISHED METAL CAP FLASHING PER DETAILS
- 7 FURNISH AND INSTALL PREFINISHED STANDING SEAM ROOF WITH STANDING SEAM STYLE SNOW GUARDS PER DETAILS
- 8 FURNISH AND INSTALL CONTINUOUS RIDGE VENT

GENERAL NOTES

- ROOFING PROVIDER TO VERIFY ALL ALL RIDGE AND SOFFIT VENTING REQUIREMENTS AND TO INCLUDE ADDITIONAL ROOF VENTING AS REQUIRED. VERIFY ADDITIONAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALL.
- ROOFING PROVIDER TO VERIFY ALL GUTTER AND DOWNSPOUT SIZES.



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EASTSIDE DEVELOPMENT
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LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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PROJECT NO: 2219		
CAD DWG FILE: Lee's Summit - Hangar 2.rvt		
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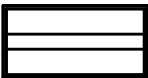


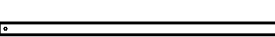


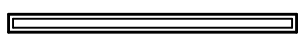




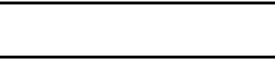

SHEET TITLE

OVERALL ROOF PLAN

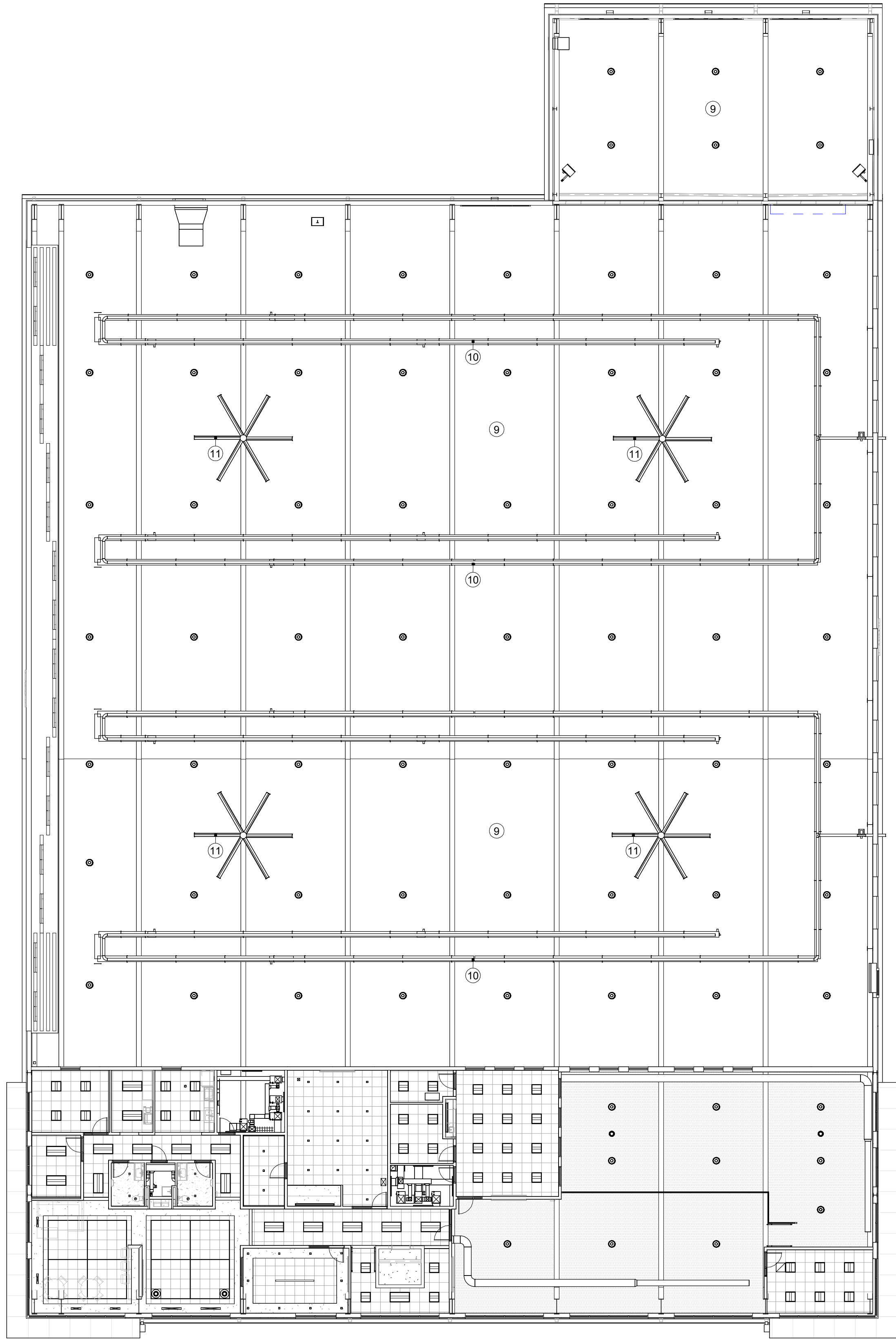
A111

SHEET 060 OF 131

9/29/2023 11:04:33 AM

LIGHT / MECHANICAL FIXTURE LIST		* REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR TYPES
2' X 4' LIGHT FIXTURE WITH DIRECT / INDIRECT LENS		
RECESSED SQUARE LIGHT		
RECESSED CAN LIGHT		
HIGH BAY PENDANT LIGHT FIXTURE		
8' LINEAR PENDANT FIXTURE		
4' SURFACE MOUNTED LIGHT FIXTURE		
6'-0" recessed strip light fixture		
8'-0" recessed strip light fixture		
2' x 2' supply diffuser		
4' linear diffuser		
1' x 1' supply diffuser		
2' x 2' return diffuser		
exposed spiral ductwork		
destratification fan with ceiling trim per RCP		

ALL EXPOSED MEZZANINE DECK, ROOF DECK, EXPOSED STEEL, EXPOSED CMU, AND EXPOSED SPIRAL DUCTS TO REMAIN CLEAN AND FREE OF DAMAGE FOR FINAL UNFINISHED APPEARANCE. PROVIDE ADDITIONAL PROTECTION AS REQUIRED.



OVERALL REFLECTED CEILING PLAN
REFERENCED FROM 1 / A201 1/16" = 1'-0" 1

RCP NOTES #
RCP NOTES
1 CEILING CLOUD WITH BOARDER TRIM PER FINISH SCHEDULE
2 FURNISH AND INSTALL DRYFALL PAINT AT ALL EXPOSED FRAMING STEEL AND DECK
3 EXPOSED SPIRAL MECHANICAL DUCTS
4 FURNISH AND INSTALL SOUND ATTENUATION INSULATION ABOVE CEILING
5 FURNISH AND INSTALL STRUCTURAL LID AT TOP OF ELEVATOR SHAFT. REFER TO ELEVATOR DETAILS
6 PAINT GYP CEILING PNT-6
7 PAINT GYP CEILING PNT-7
8 FURNISH AND INSTALL PERFORATED METAL PANEL AT UNDERSIDE OF DECK / INSULATION
9 FURNISH AND INSTALL HIGH BAY LIGHTING PER ELECTRICAL
10 FURNISH AND INSTALL INFRARED HEATING SYSTEM PER MECHANICAL
11 FURNISH AND INSTALL HIGH VOLUMN LOW SPEED FAN PER MECHANICAL
12 FURNISH AND INSTALL DESTRATIFICATION FAN PER MECHANICAL
13 KEEP ALL MECHANICAL SPRINKLERS, LIGHTING, ETC TIGHT TO THE UNDERSIDE OF STRUCTURE AND TIGHT TO WALLS
14 FURNISH AND INSTALL 24"X24" ACCESS PANEL



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EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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DRAWN BY:	DM
CHECKED BY:	WAI
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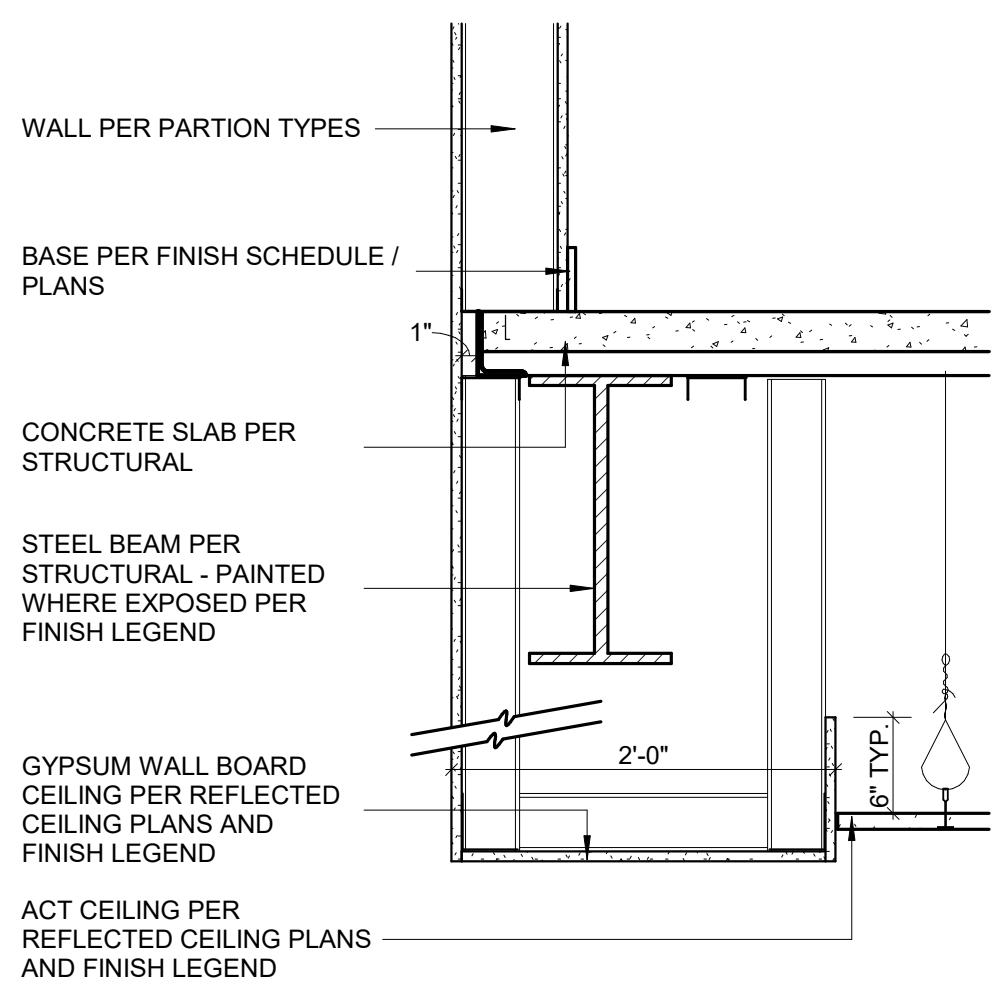
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OVERALL REFLECTED
CEILING PLAN

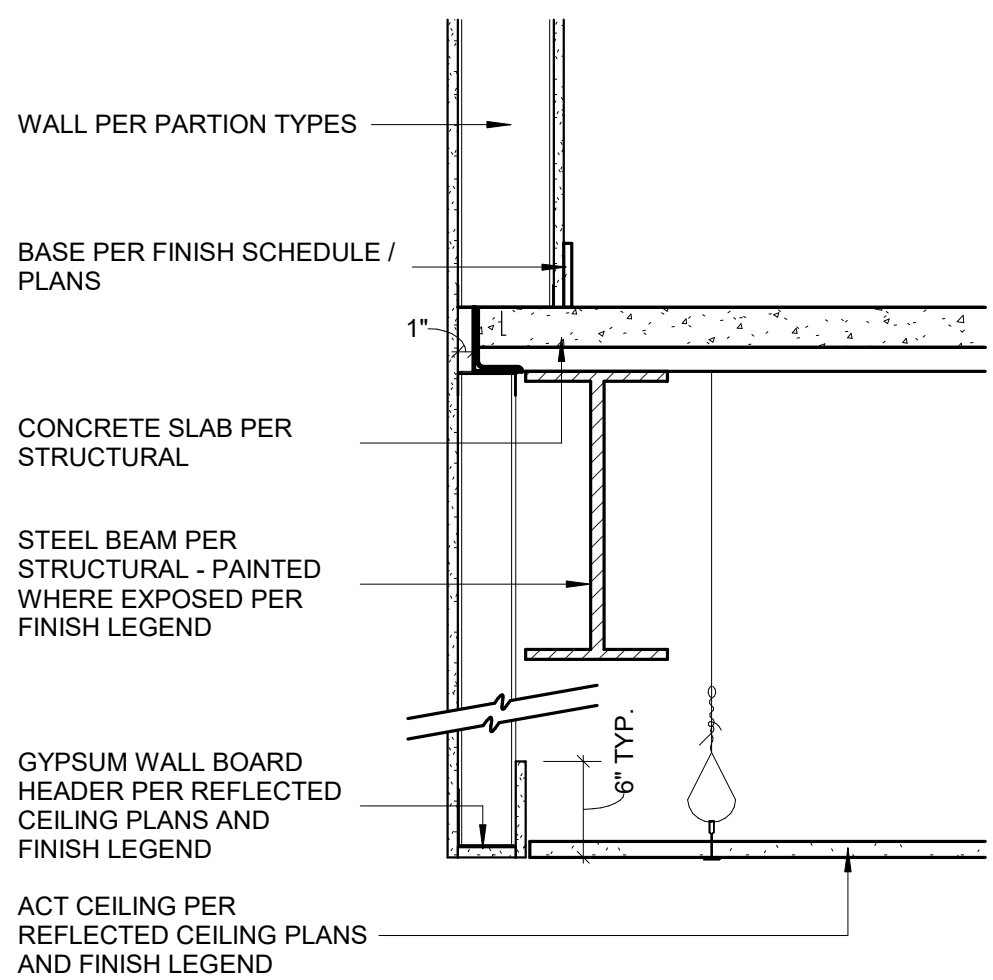
A121

SHEET 061 OF 131

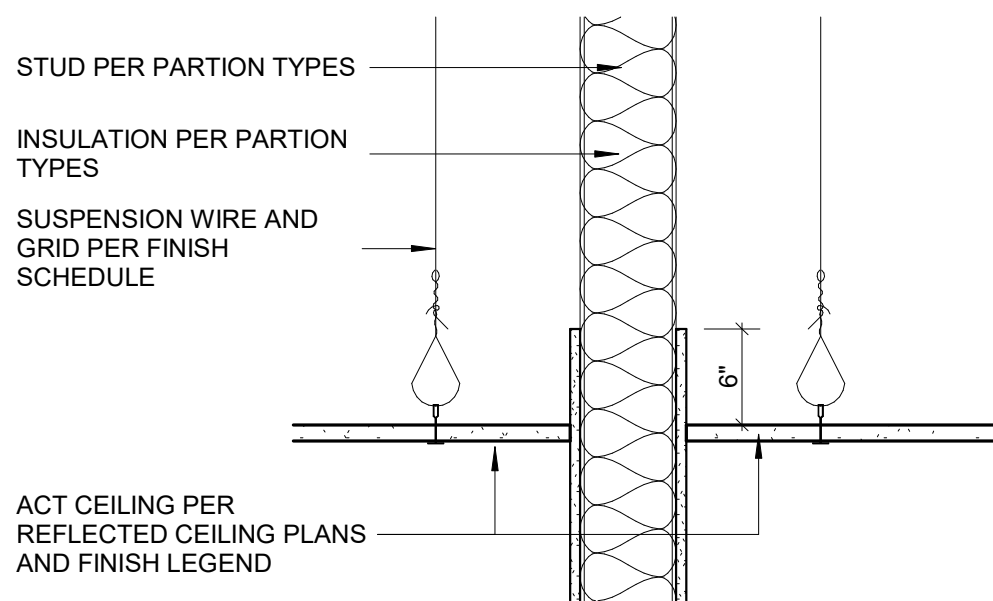
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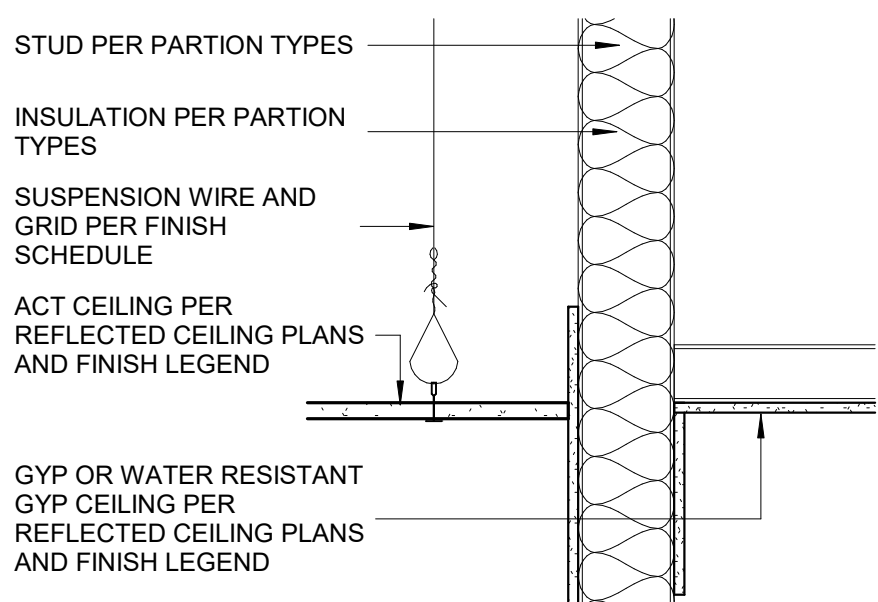
DETAIL - CEILING COFFER
REFERENCED FROM 1 / A122
1" = 1'-0"



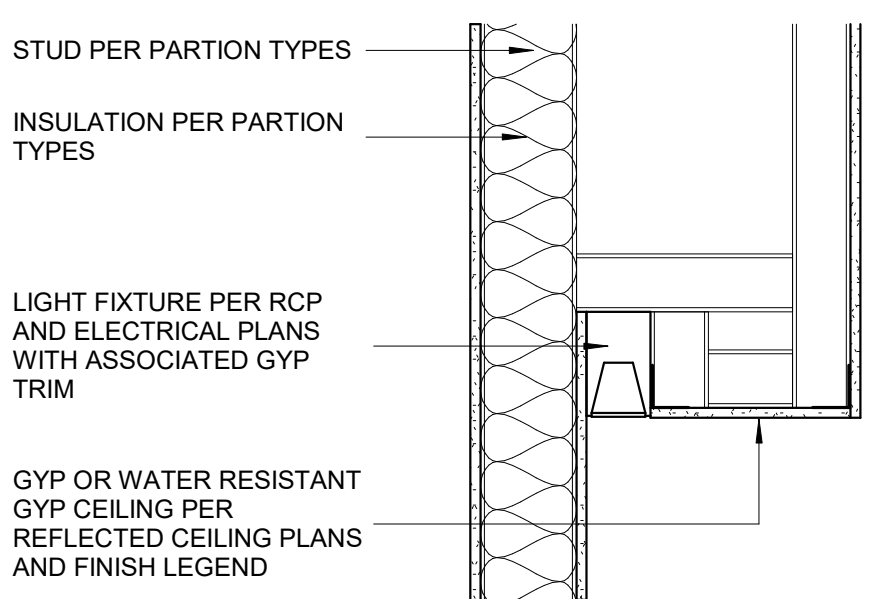
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REFERENCED FROM 1 / A122
1" = 1'-0"



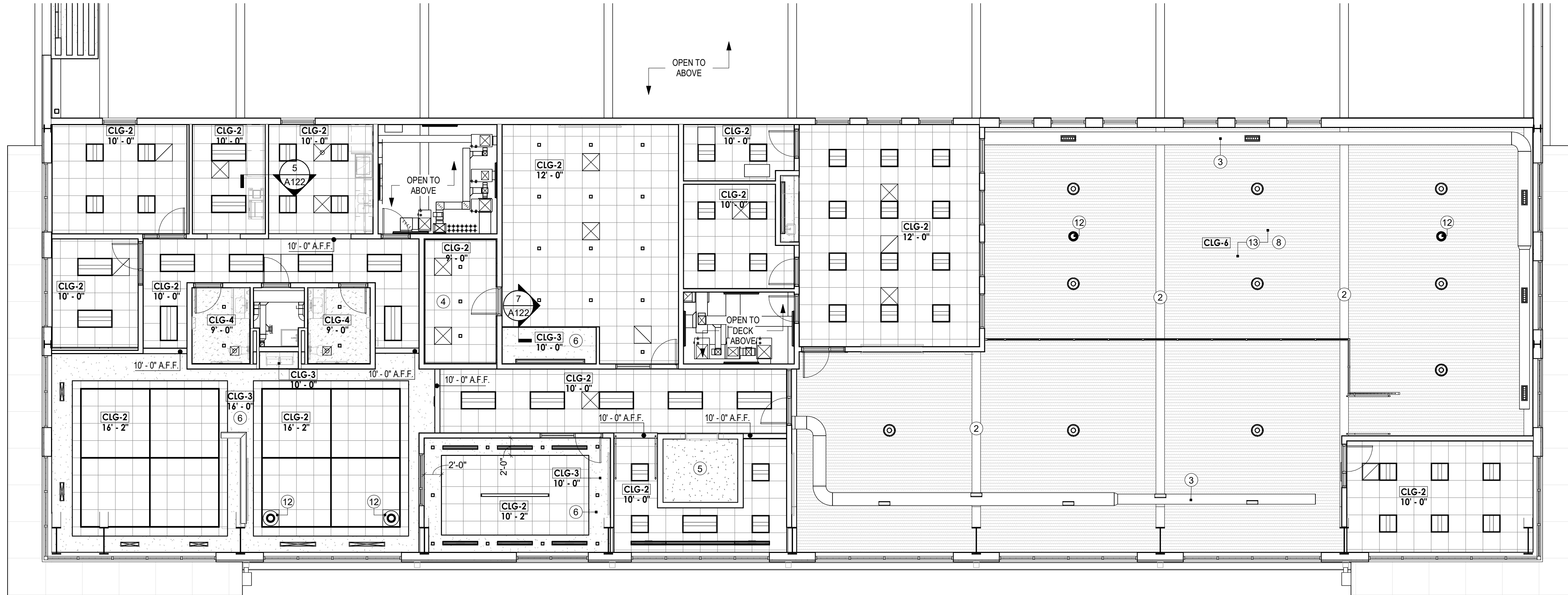
DETAIL - CEILING ACT / ACT
REFERENCED FROM 1 / A122
1" = 1'-0"



DETAIL - CEILING GYP / ACT
REFERENCED FROM 1 / A122
1" = 1'-0"



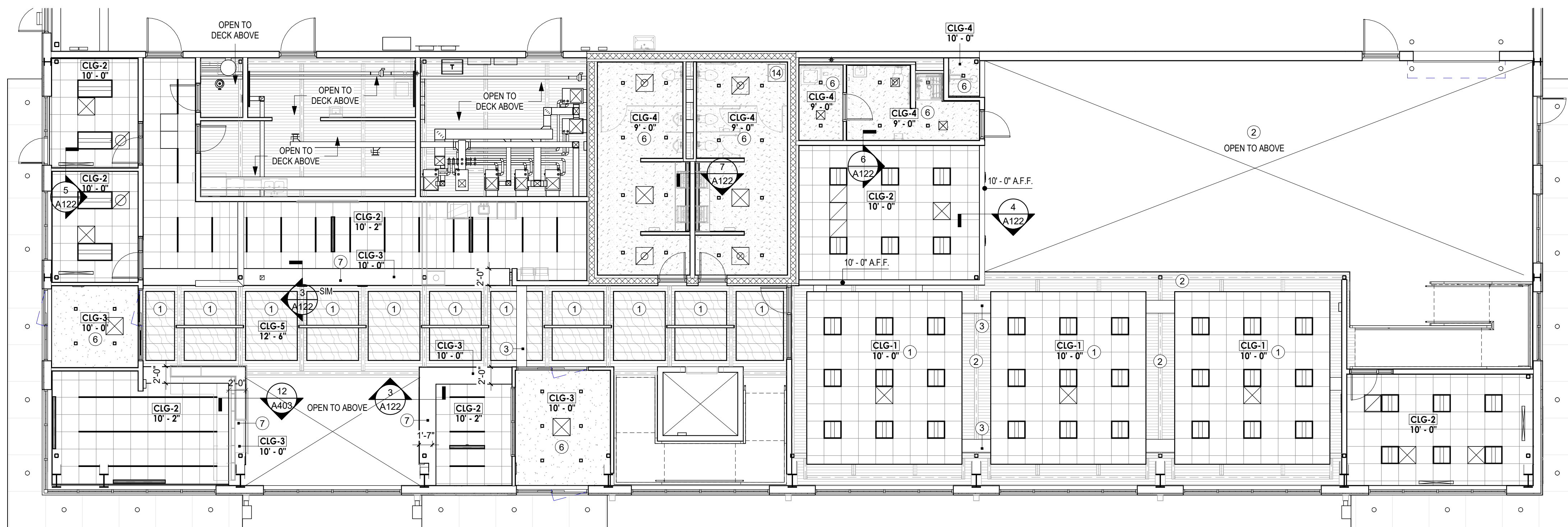
DETAIL - CEILING GYP AT LINEAR FIXTURE
REFERENCED FROM 1 / A122
1" = 1'-0"



REFLECTED CEILING PLAN LEVEL 2
1/8" = 1'-0"

ALL EXPOSED MEZZANINE DECK, ROOF DECK, EXPOSED STEEL, EXPOSED CMU, AND EXPOSED SPIRAL DUCTS TO REMAIN CLEAN AND FREE OF DAMAGE FOR FINAL UNFINISHED APPEARANCE. PROVIDE ADDITIONAL PROTECTION AS REQUIRED.

LIGHT / MECHANICAL FIXTURE LIST * REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR TYPES	
2' x 4' LIGHT FIXTURE WITH DIRECT / INDIRECT LENS	
RECESSED SQUARE LIGHT	
RECESSED CAN LIGHT	
HIGH BAY PENDANT LIGHT FIXTURE	
8' LINEAR PENDANT FIXTURE	
4' SURFACE MOUNTED LIGHT FIXTURE	
6'-0" recessed strip light fixture	
8'-0" recessed strip light fixture	
2' x 2' supply diffuser	
4' linear diffuser	
1' x 1' supply diffuser	
2' x 2' return diffuser	
exposed spiral ductwork	
destratification fan with ceiling trim per RCP	



REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

- RCP NOTES
1. CEILING CLOUD WITH BOARDER TRIM PER FINISH SCHEDULE
 2. FURNISH AND INSTALL DRYFALL PAINT AT ALL EXPOSED FRAMING STEEL AND DECK
 3. EXPOSED SPIRAL MECHANICAL DUCTS
 4. FURNISH AND INSTALL SOUND ATTENUATION INSULATION ABOVE CEILING
 5. FURNISH AND INSTALL STRUCTURAL LID AT TOP OF ELEVATOR SHAFT, REFER TO ELEVATOR DETAILS
 6. PAINT GYP CEILING PNT-6
 7. PAINT GYP CEILING PNT-7
 8. FURNISH AND INSTALL PERFORATED METAL PANEL AT UNDERSIDE OF DECK / INSULATION
 9. FURNISH AND INSTALL HIGH BAY LIGHTING PER ELECTRICAL
 10. FURNISH AND INSTALL INFRARED HEATING SYSTEM PER MECHANICAL
 11. FURNISH AND INSTALL HIGH VOLUM LOW SPEED FAN PER MECHANICAL
 12. FURNISH AND INSTALL DESTRATIFICATION FAN PER MECHANICAL
 13. KEEP ALL MECHANICAL, SPRINKLERS, LIGHTING, ETC TIGHT TO THE UNDERSIDE OF STRUCTURE AND TIGHT TO WALLS
 14. FURNISH AND INSTALL 24"X24" ACCESS PANEL



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

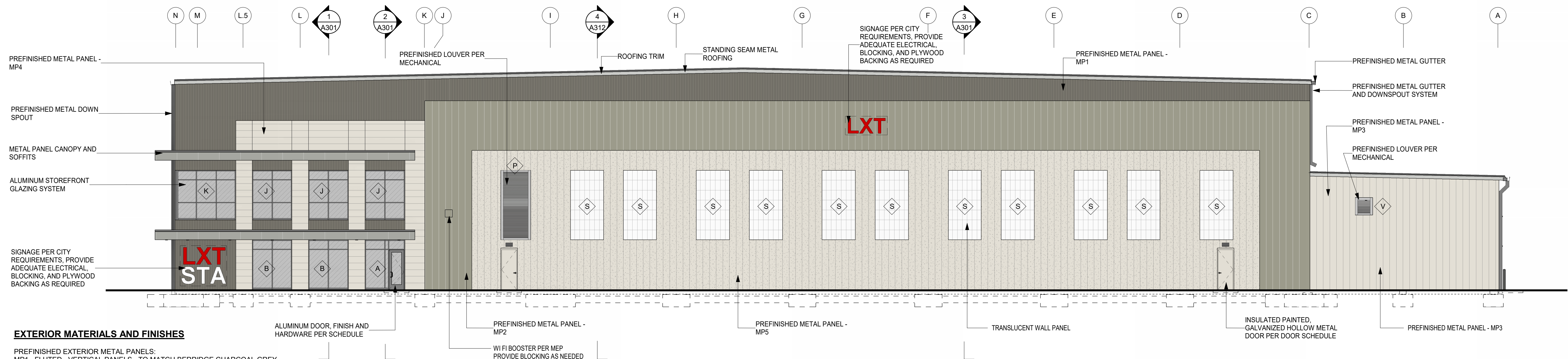
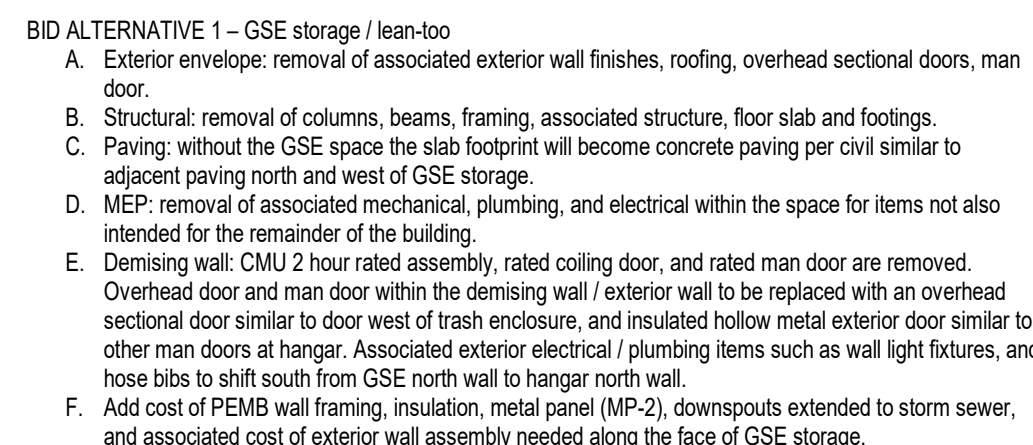
PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: DM
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SHEET TITLE

REFLECTED CEILING
PLAN

A122

SHEET 062 OF 131



EXTERIOR MATERIALS AND FINISHES

PREFINISHED EXTERIOR METAL PANELS:
 MP1 - FLAT - VERTICAL PANELS - TO MATCH BERRIDGE CHARCOAL GREY
 MP2 - FLAT - VERTICAL PANELS - TO MATCH BERRIDGE CITYSCAPE
 MP3 - FLAT - VERTICAL PANELS - TO MATCH BERRIDGE PARCHMENT
 MP4 - FLAT - HORIZONTAL PANELS - TO MATCH BERRIDGE PARCHMENT
 MP5 - FLAT - VERTICAL PANELS - STUCCO FINISH - TO MATCH BERRIDGE PARCHMENT

TRANSLUCENT WALL PANELS:
LIGHT-TRANSMITTING WALL PANELS

CANOPY:
PREFINISHED EXTERIOR METAL PANELS - TO MATCH BERRIDGE LEAD-COTE

GLASS:
1" INSULATED SOLARBAN 60 (2) SOLARGRAY + CLEAR, LOW E GLASS WITH ARGON FILL -
(TO MEET U-VALUE OF .29 OR BETTER AND SHGC OF .25 OR BETTER)

STOREFRONT SYSTEM:
ANODIZED ALUMINUM FRAMES, CLEAR FINISH - AL-

HOLLOW METAL DOORS:
INSULATED, PAINTED TO MATCH ADJACENT WALLS. U.N.O.

OVERHEAD DOORS:
PREFINISHED TO MATCH BERRIDGE CHARCOAL GREY

LOUVERS:
PREFINISHED TO MATCH ADJACENT WALL COLOR

FLASHING:
PREFINISHED METAL FLASHING TO MATCH ADJACENT WALL COLORS

DOWNSPOUTS / GUTTERS:

BOLLARDS:

CAULK:

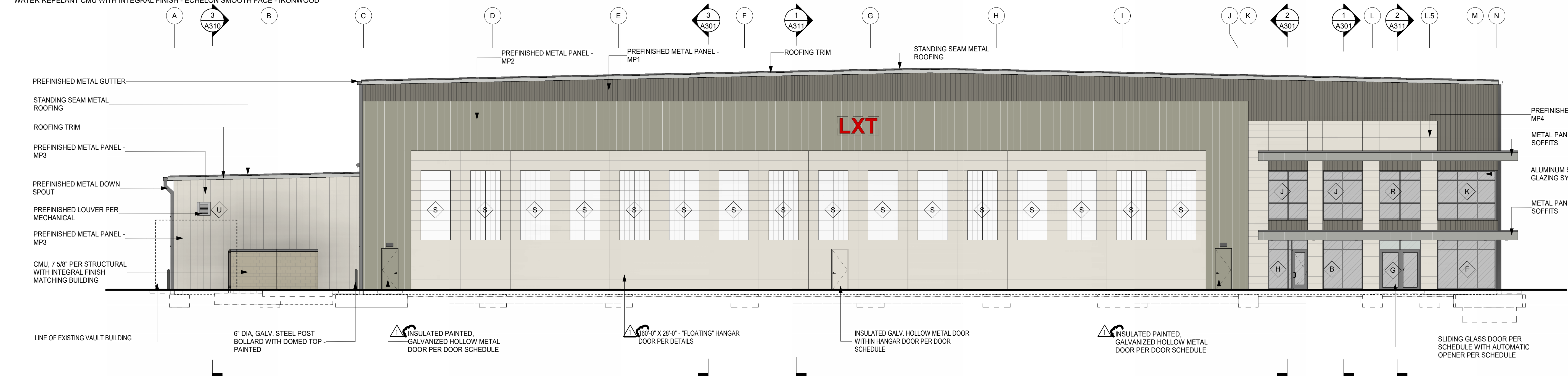
SIGNAGE:

4" DEEP CHANNEL LETTER SIGNS FRONT-LIT PIN MOUNTED - TO MEET CITY SIGN. STANDARDS

FURNISH AND INSTAL APPROVED ADDRESS NUMBERS ON FRONT AND REAR OF BUILDING IN CONTRASTING COLOR PER CITY AND FIRE CODE REQUIREMENTS.

ROOFING:
STANDING SEAM ROOF TO MATCH BERRIDGE CITY SCAPE

TRASH ENCLOSURE CMU:
WATER REPELANT CMU WITH INTEGRAL FINISH - ECHELON SMOOTH FACE - IRONWOOD



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-202

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

2	12/01	REV-2
1	11/10	REV-1
MARK	DATE	DESCRIPTION
PROJECT NO: 2219		
CAD DWG FILE: Lee's Summit - Hangar 2.rvt		
DESIGNED BY: DM		
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	SHEET TITLE
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BUILDING ELEVATIONS

A201

SHEET 063 OF 131



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



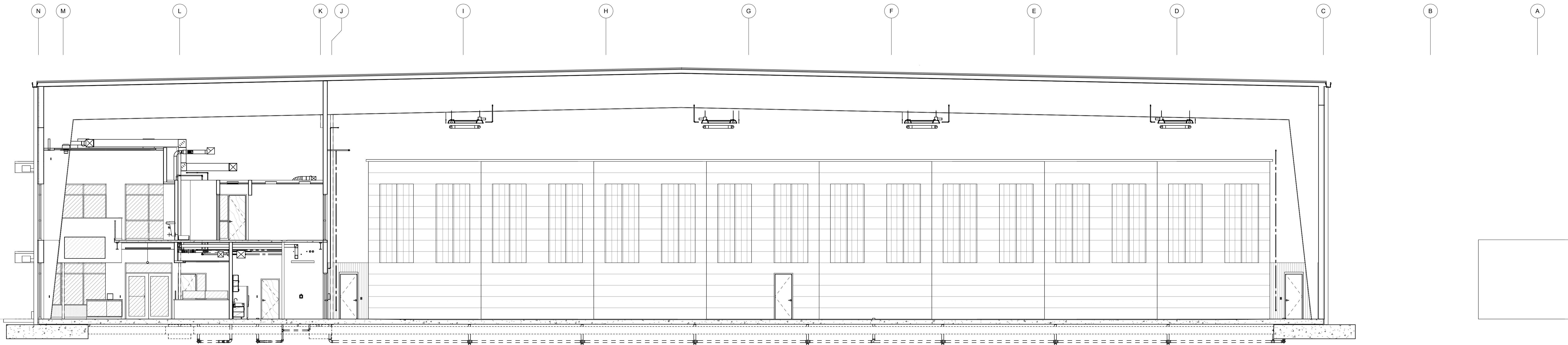
EES SUMMIT MUNICIPAL AIRPORT		
EES SUMMIT, MO		
MARK	DATE	DESCRIPTION
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		CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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		DRAWN BY: DM
		CHECKED BY: WAI
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SHEET TITLE

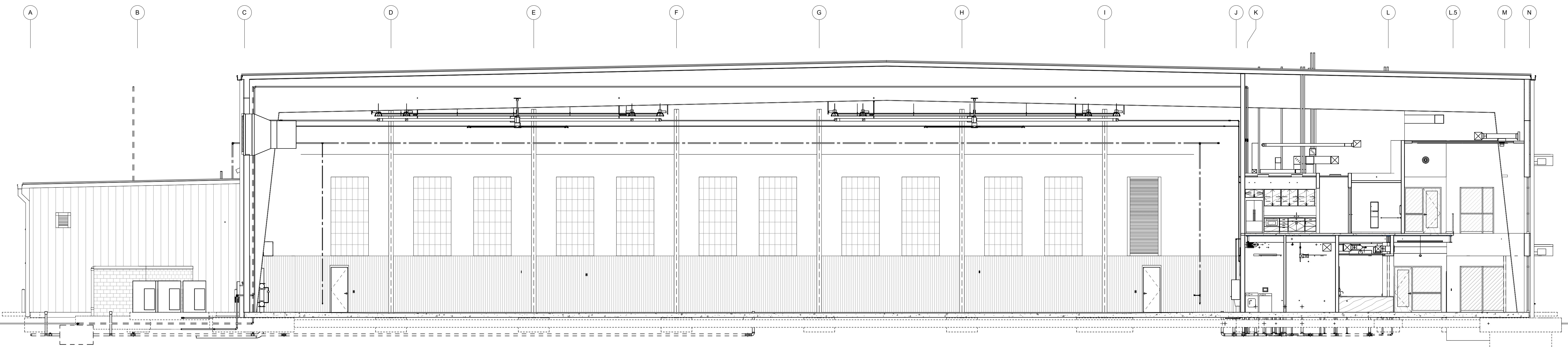
BUILDING SECTIONS

A301

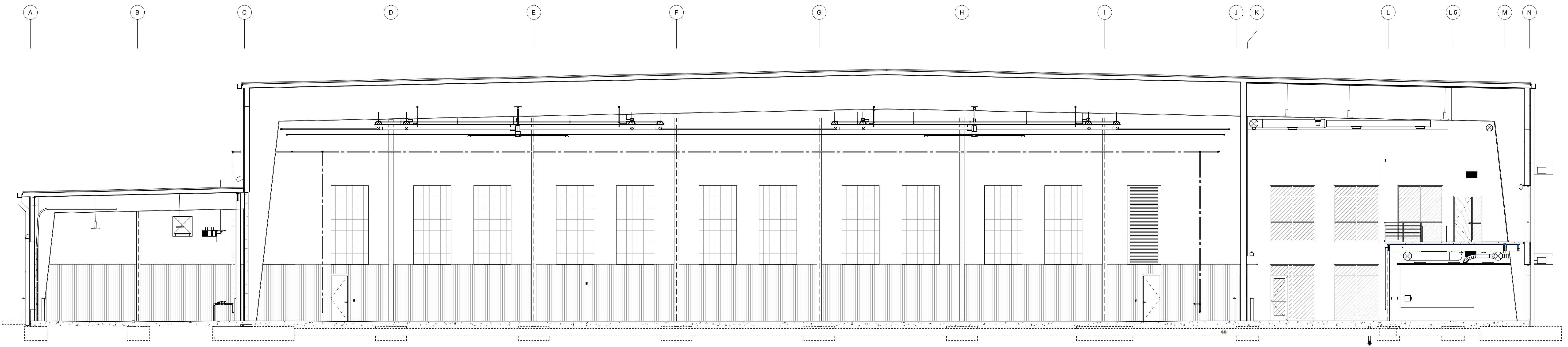
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BUILDING SECTION 3
REFERENCED FROM 1 / A101 1/8" = 1'-0"



BUILDING SECTION 2
REFERENCED FROM 1 / A101 1/8" = 1'-0"



BUILDING SECTION 1
REFERENCED FROM 1 / A101 1/8" = 1'-0"



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
PROJECT NO:	2219	
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt	
DESIGNED BY:	DM	
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SHEET TITLE

BUILDING SECTIONS

A302

SHEET 065 OF 131

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
		PROJECT NO: 2219
		CAD DWG FILE: Lee's Summit - Hangar 2.rvt
		DESIGNED BY: DM
		DRAWN BY: KP
		CHECKED BY: WAI
		APPROVED BY: WAI
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1	SHEET TITLE
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WALL SECTIONS

A310

SHEET 066 OF 131



REFERENCED FROM 1 / A10

$$1/2'' = 1'-0''$$


REFERENCED FROM 1 / A101

$$1/2'' = 1'-0''$$


REFERENCED FROM 1 / A10

$$1/2'' = 1'-0'$$

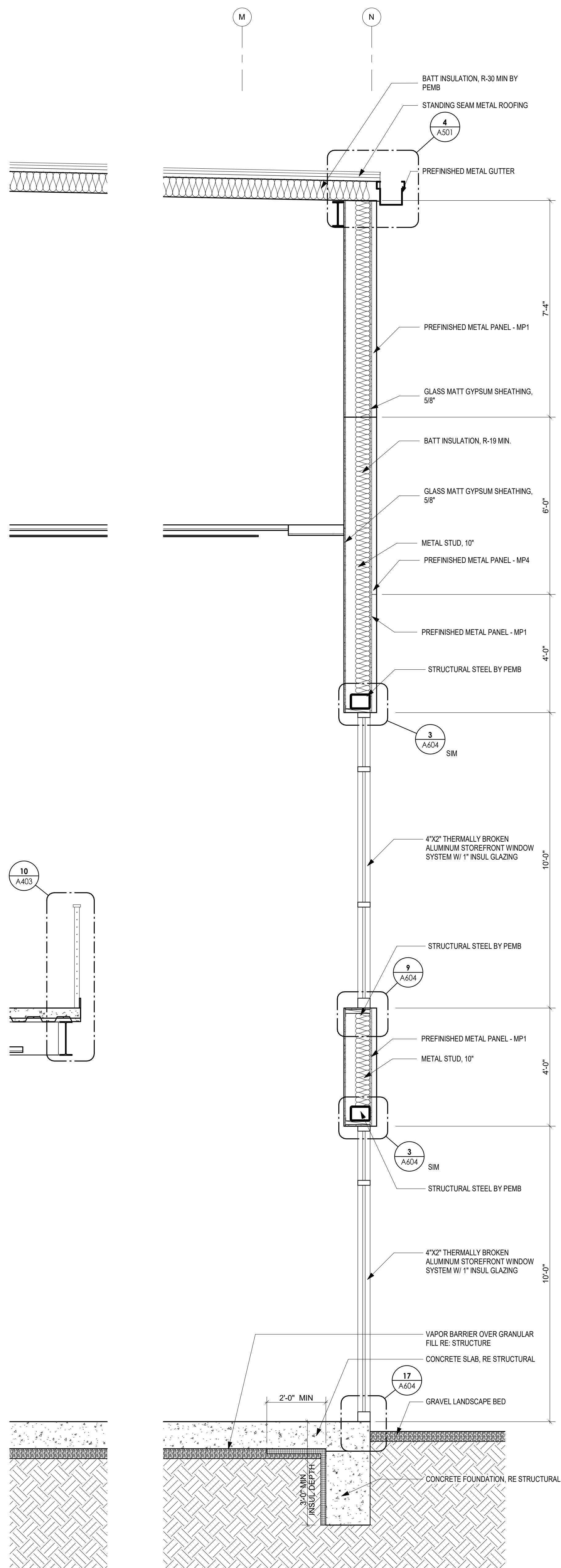

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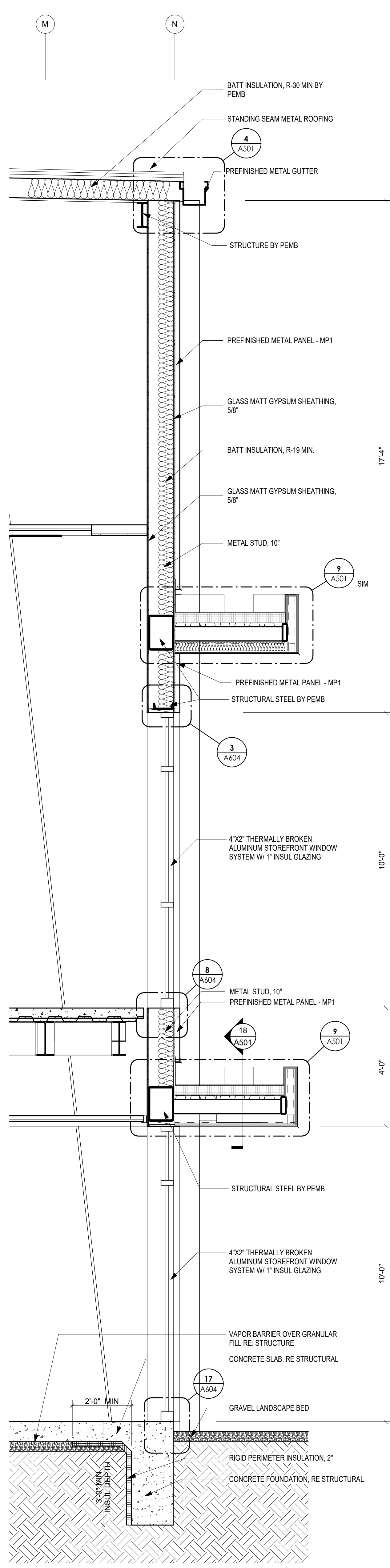

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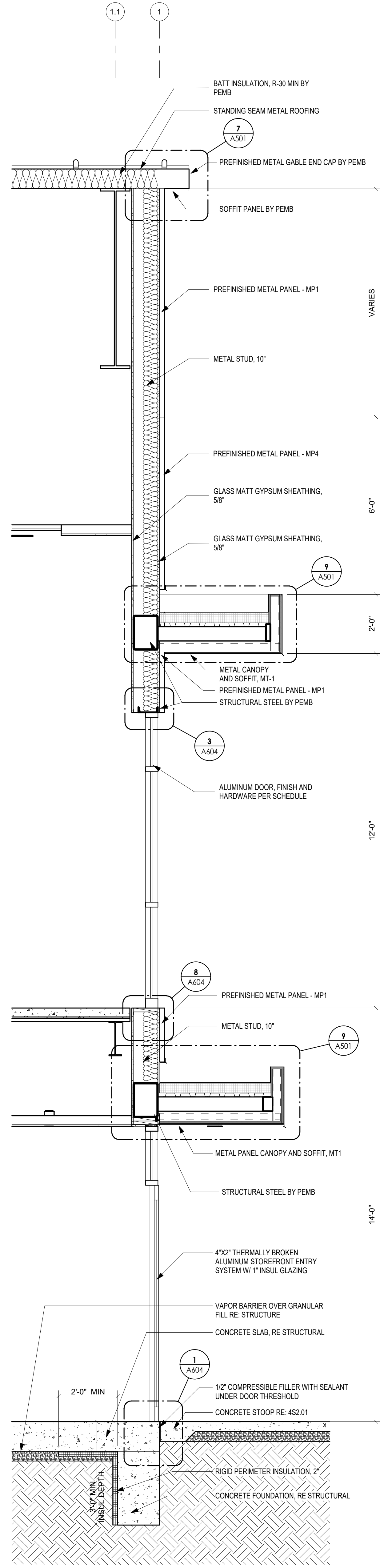
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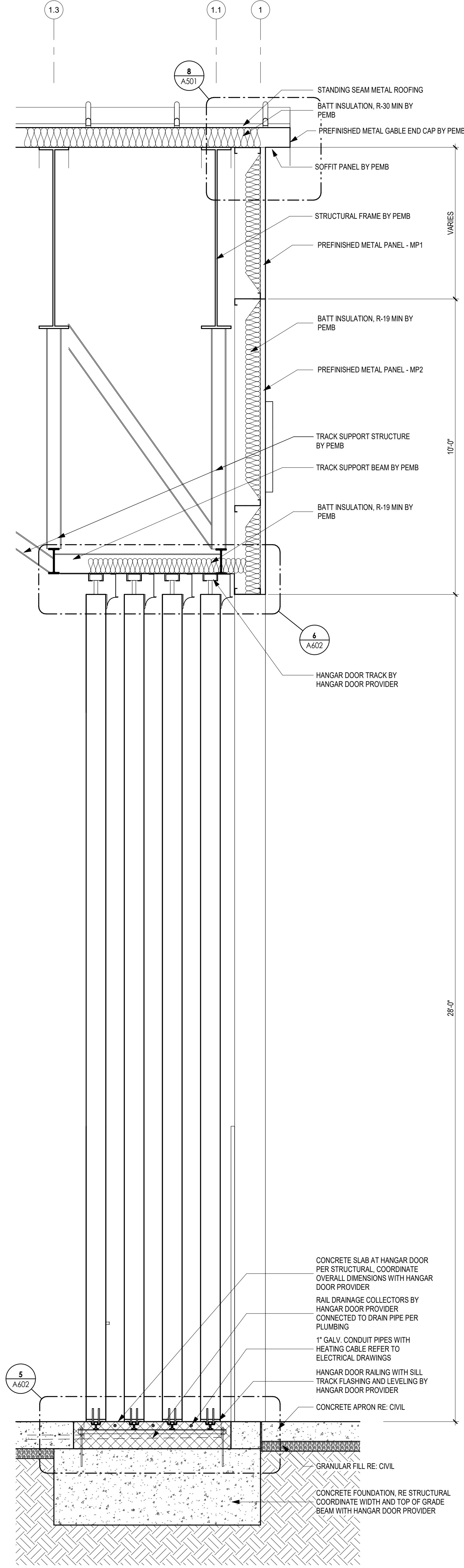
WALL SECTION - 09
REFERENCED FROM 1/ A101
1/2" = 1'-0"



WALL SECTION - 08
REFERENCED FROM 1/ A101
1/2" = 1'-0"



WALL SECTION - 07
REFERENCED FROM 1/ A101
1/2" = 1'-0"



WALL SECTION - 06
REFERENCED FROM 1/ A101
1/2" = 1'-0"



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



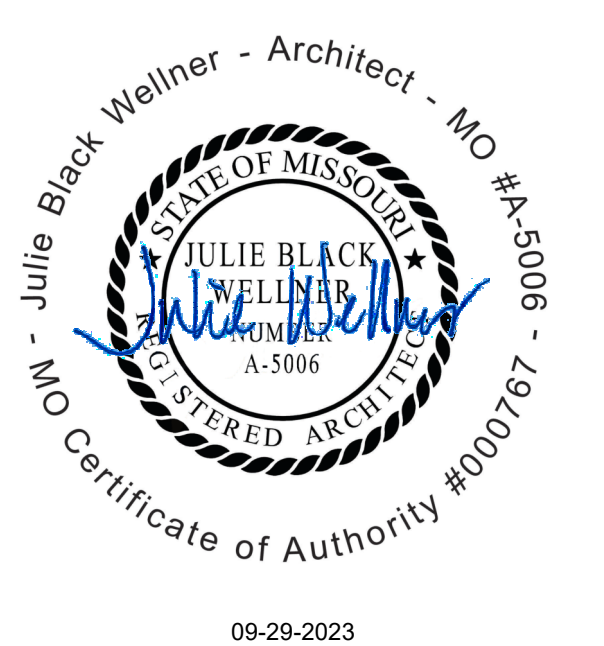
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

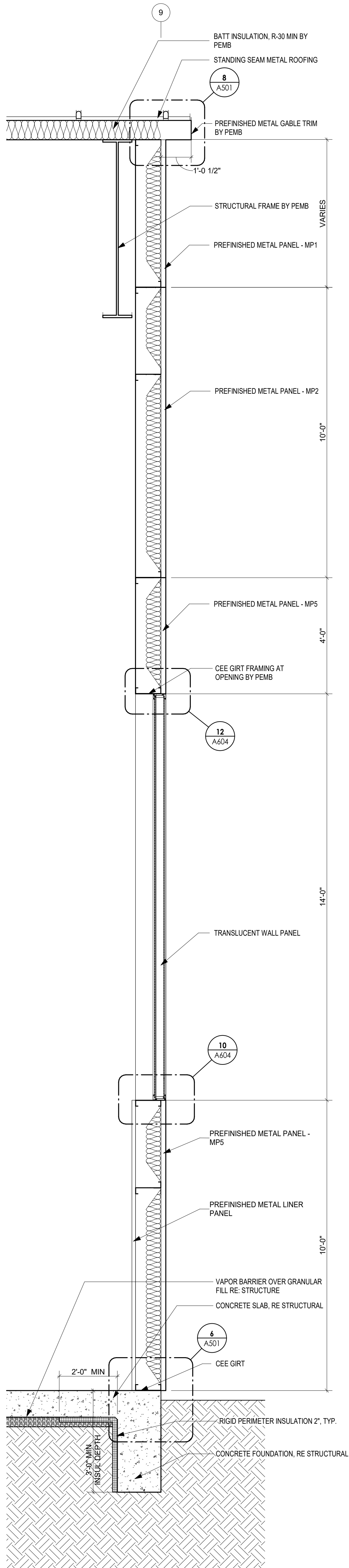
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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt	
DESIGNED BY:	DM	
DRAWN BY:	KP	
CHECKED BY:	WAI	
APPROVED BY:	WAI	
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SHEET TITLE
WALL SECTIONS

A311

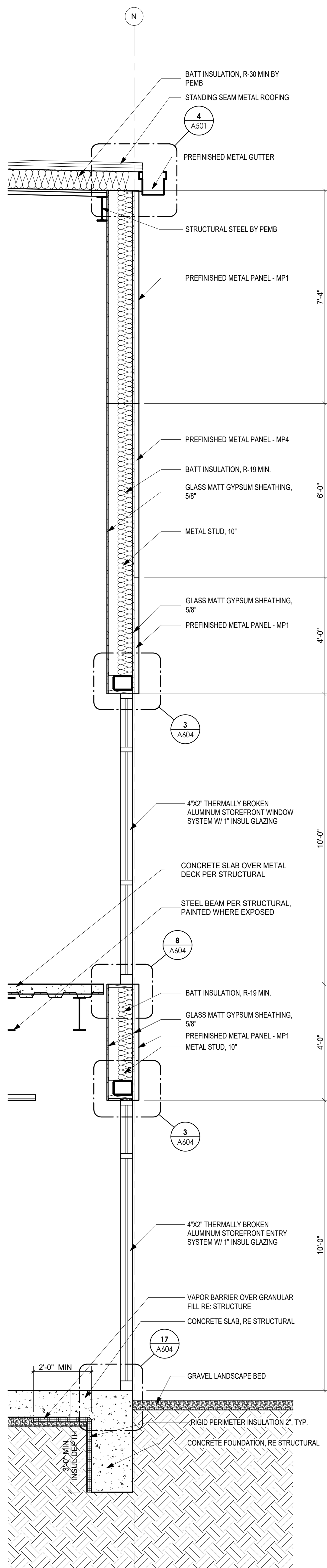
SHEET 067 OF 131

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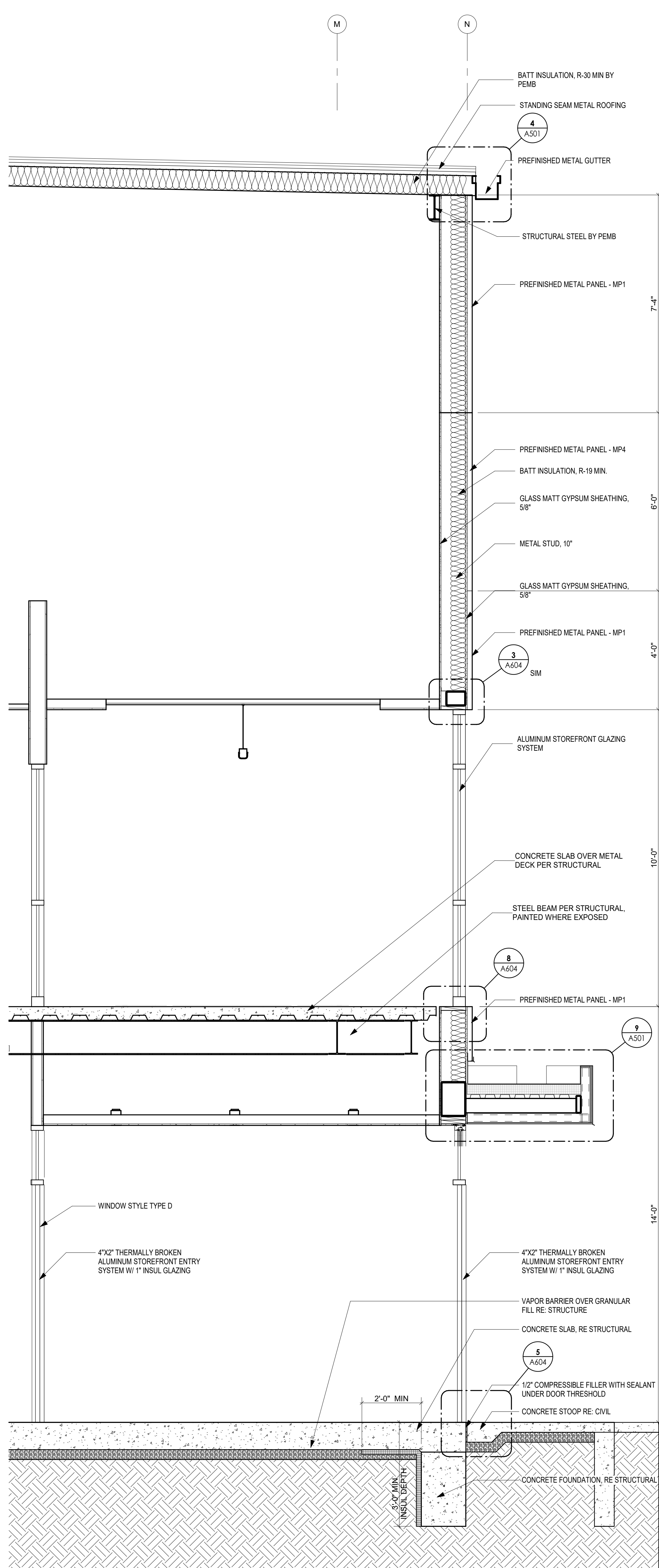
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REFERENCED FROM 1 / A101
1/2" = 1'-0"

4



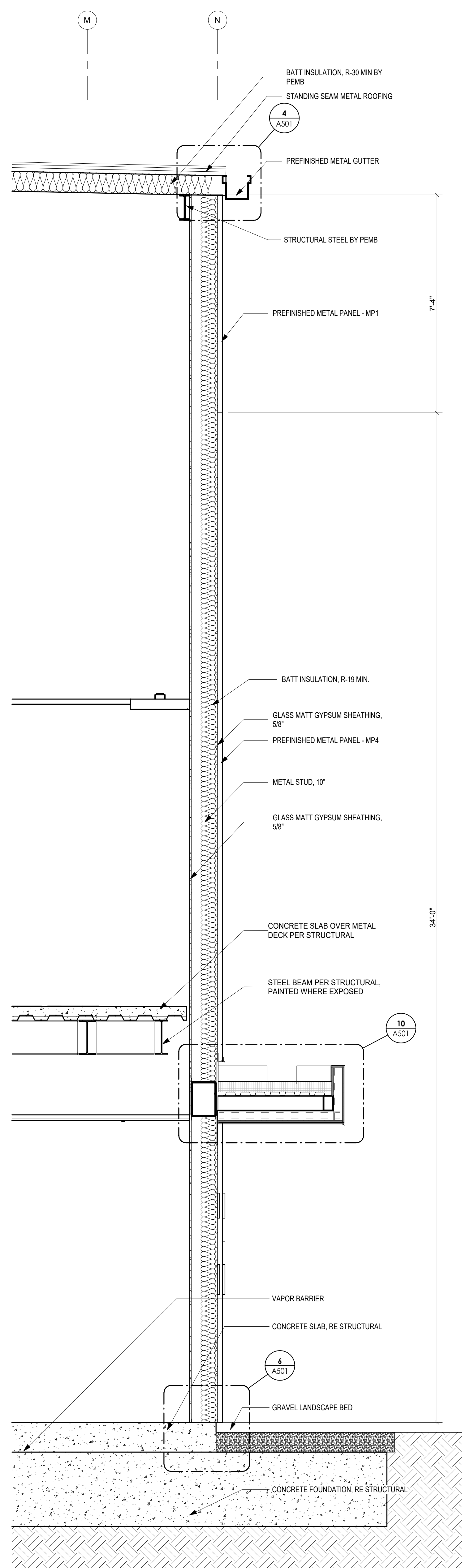
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REFERENCED FROM 1 / A101
1/2" = 1'-0"

3



WALL SECTION - 11
REFERENCED FROM 1 / A101
1/2" = 1'-0"

2



WALL SECTION - 10
REFERENCED FROM 1 / A101
1/2" = 1'-0"

1



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2219
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SHEET TITLE

WALL SECTIONS

A312

SHEET 068 OF 131

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORTEASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

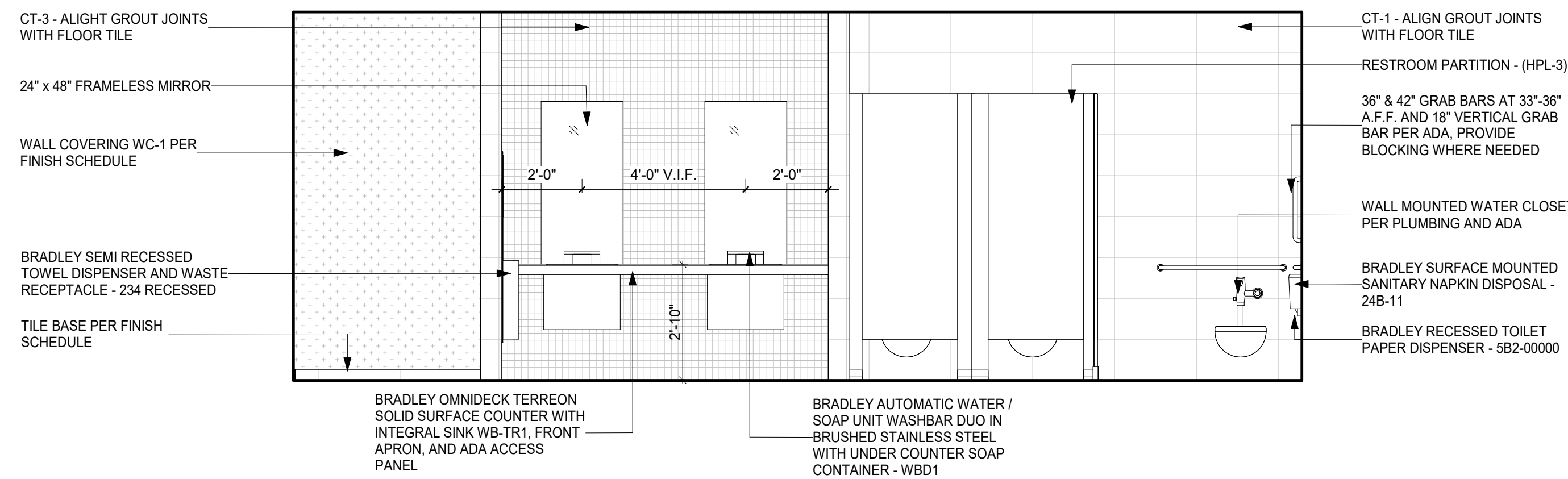
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PROJECT NO: 2219			
CAD DWG FILE: Lee's Summit - Hangar 2.rvt			
DESIGNED BY: DM			
DRAWN BY: DM			
CHECKED BY: WAI			
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SHEET TITLE

ENLARGED
RESTROOM PLANS &
ELEVATIONS

A401

SHEET 069 OF 131

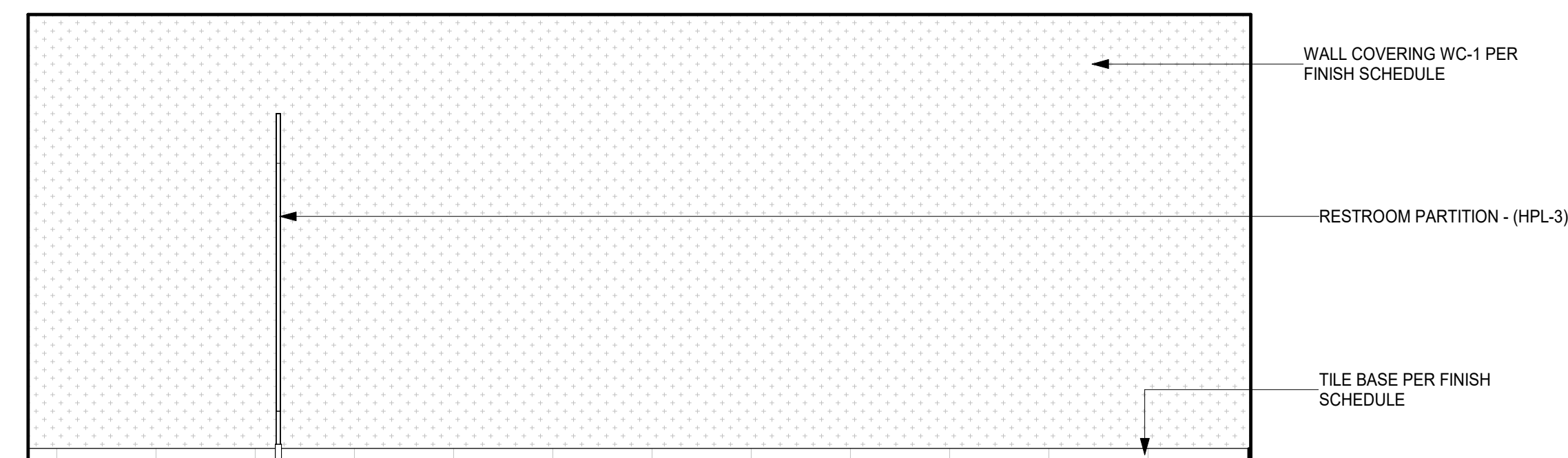


105 WOMEN'S WEST

REFERENCED FROM 1 / A401

3/8" = 1'-0"

9

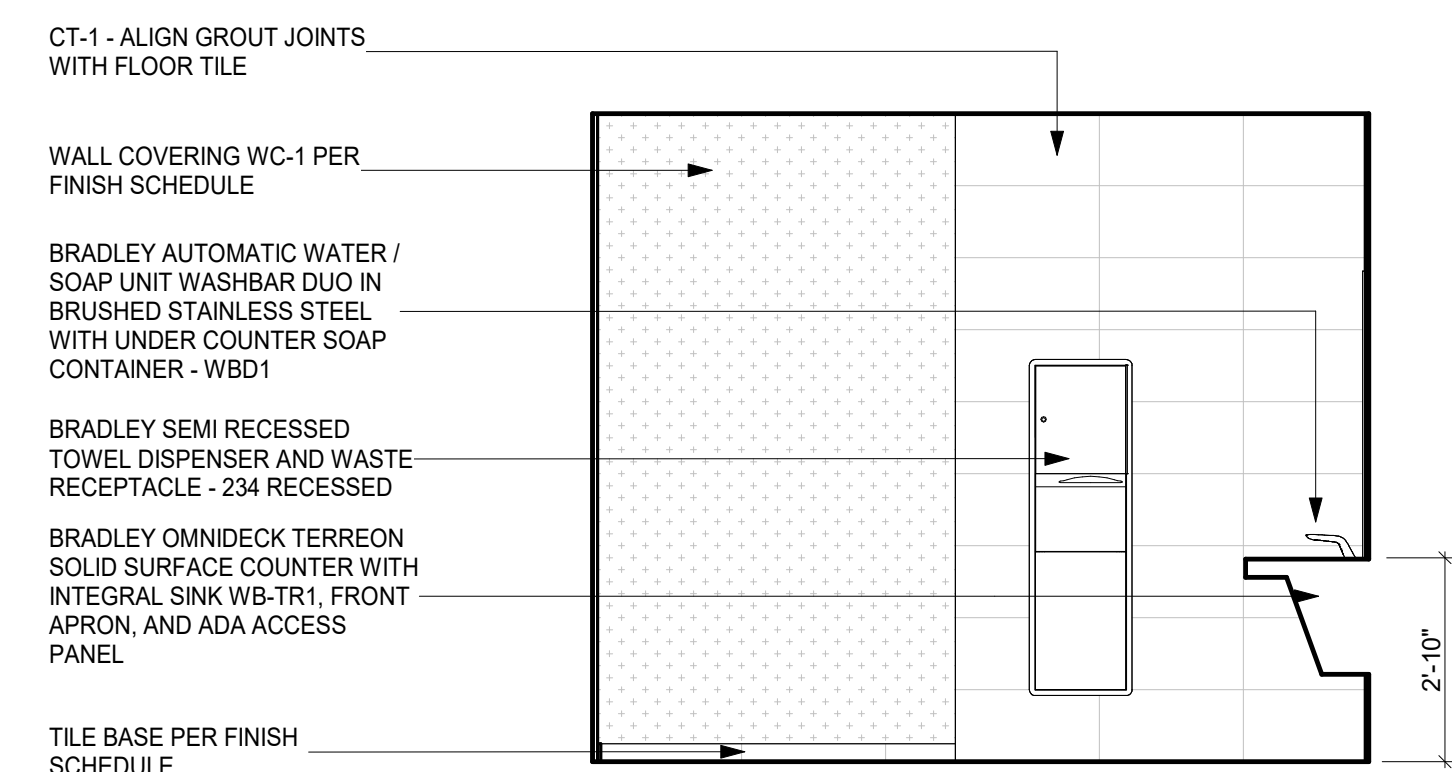


105 WOMEN'S EAST

REFERENCED FROM 1 / A401

3/8" = 1'-0"

7

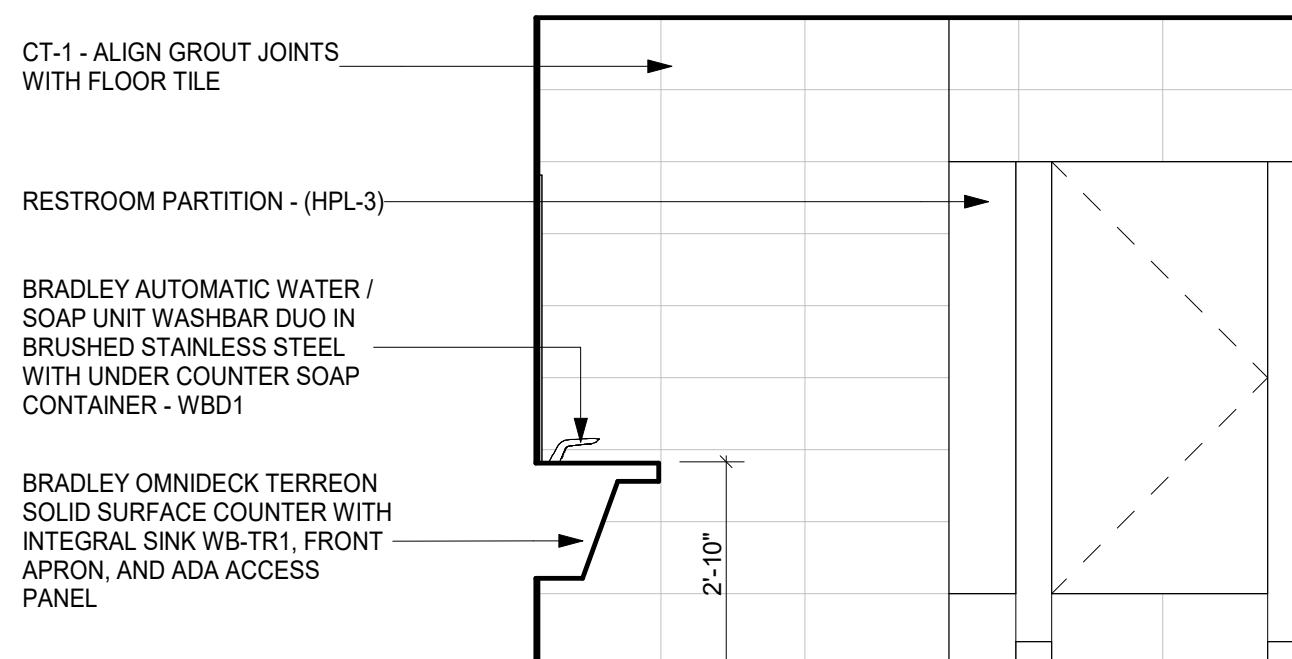


105 WOMEN'S SOUTH

REFERENCED FROM 1 / A401

3/8" = 1'-0"

8

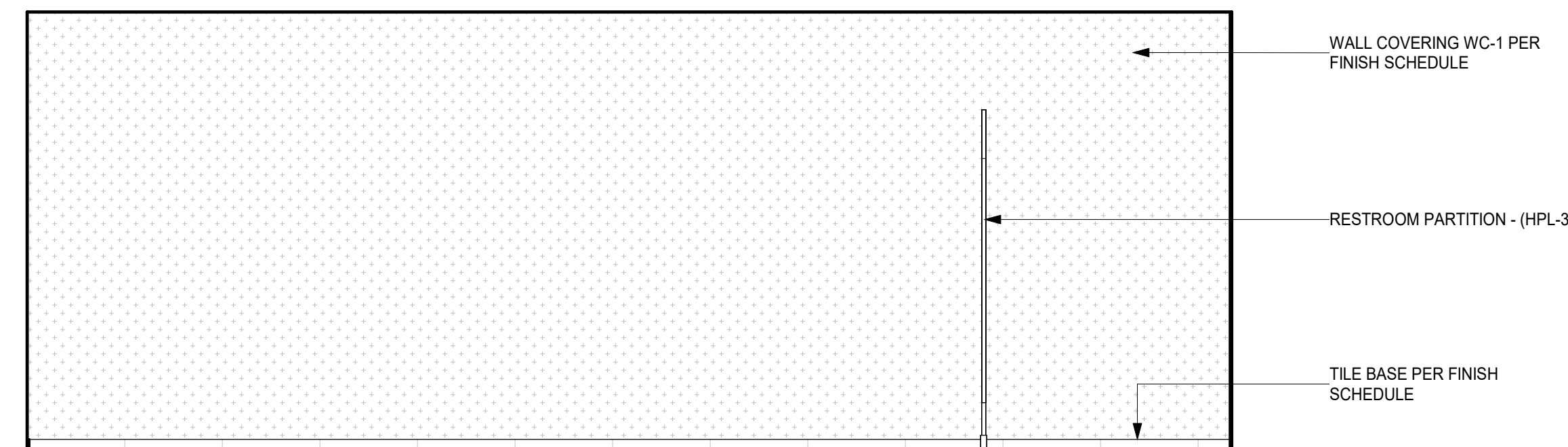


105 WOMEN'S NORTH

REFERENCED FROM 1 / A401

3/8" = 1'-0"

6

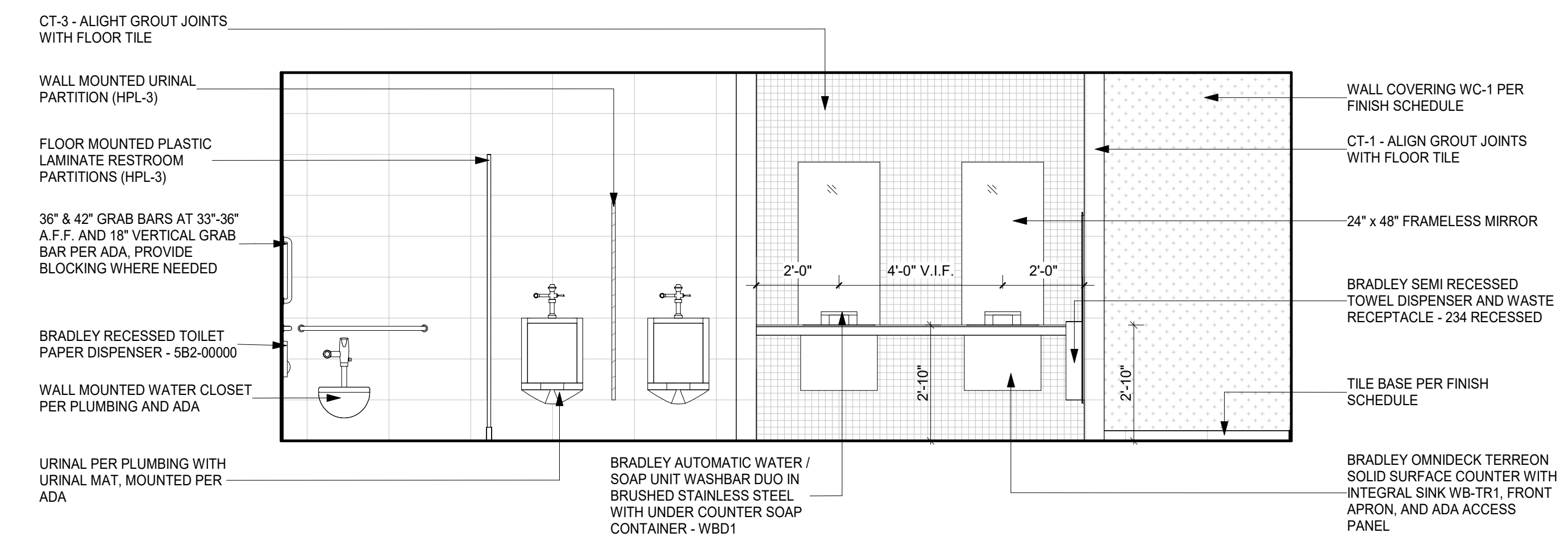


106 MEN'S WEST

REFERENCED FROM 1 / A401

3/8" = 1'-0"

5

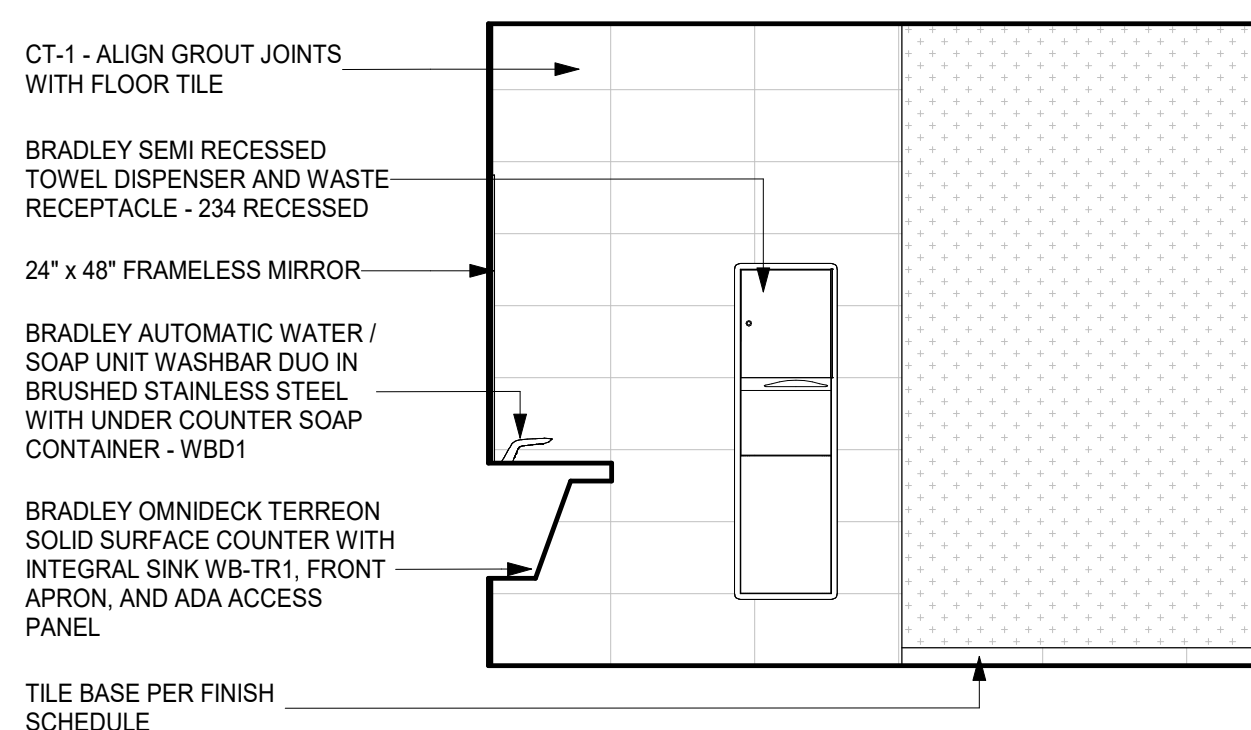


106 MEN'S EAST

REFERENCED FROM 1 / A401

3/8" = 1'-0"

4

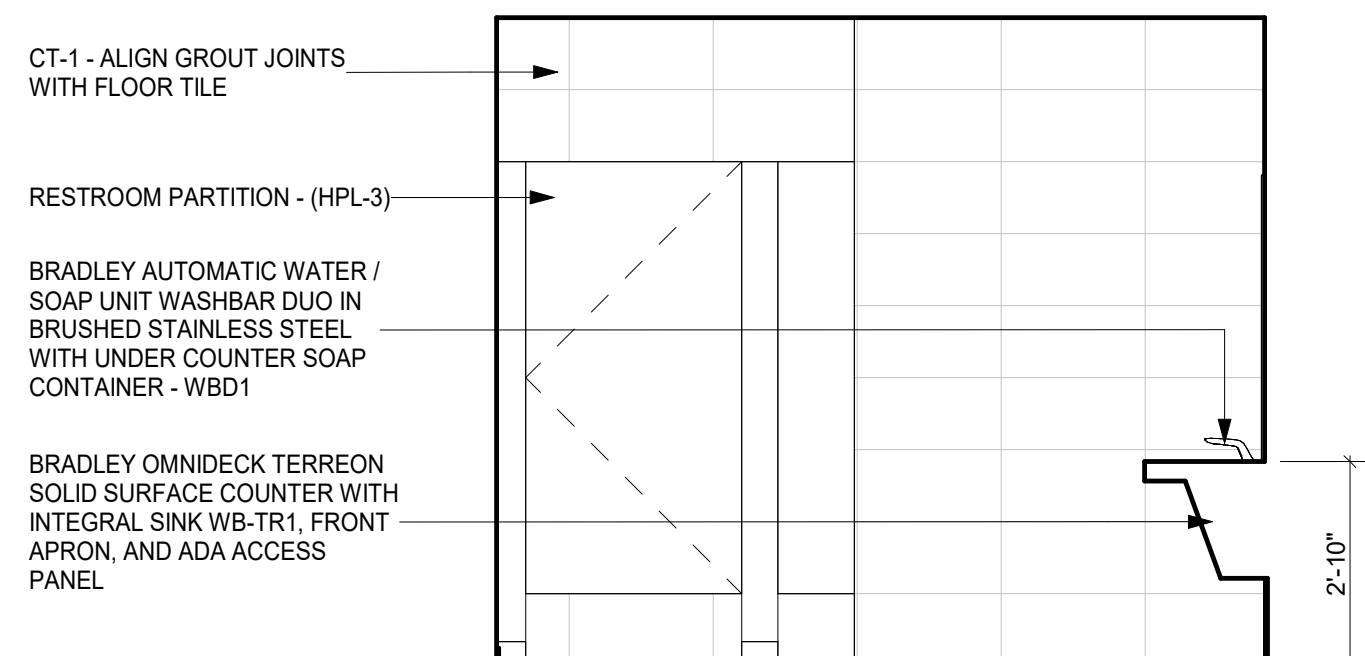


106 MEN'S SOUTH

REFERENCED FROM 1 / A401

3/8" = 1'-0"

3



106 MEN'S NORTH

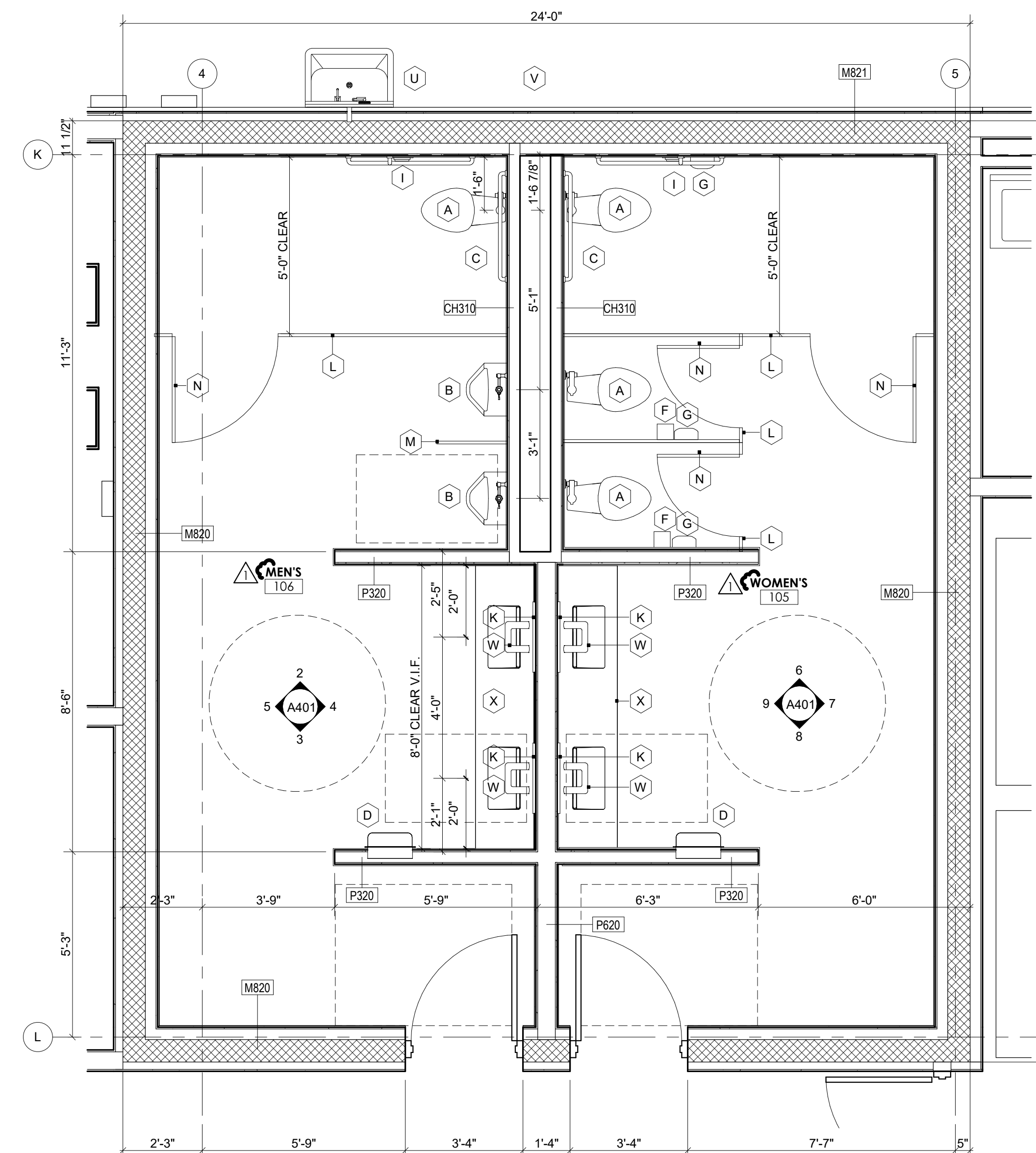
REFERENCED FROM 1 / A401

3/8" = 1'-0"

2

FIXTURES AND TOILET ACCESSORIES

- A WALL MOUNTED WATER CLOSET PER PLUMBING AND ADA
- AA 36" x 36" CLEAR ADA FIBERGLASS TRANSFER SHOWER STALL WITH COLLAPSIBLE RUBBER DAM
- B URINAL PER PLUMBING WITH URINAL MAT, MOUNTED PER ADA
- BB BRADLEY WALL MOUNTED AUTOMATIC ROLL TOWEL DISPENSER - 2484
- C 36" & 42" GRAB BARS AT 33"-36" A.F.F. AND 18" VERTICAL GRAB BAR PER ADA, PROVIDE BLOCKING WHERE NEEDED
- CC BRADLEY WASTE RECEPTACLE - SEMI-RECESSED - 348-10
- D BRADLEY SEMI RECESSED TOWEL DISPENSER AND WASTE RECEPTACLE - 234 RECESSED
- E SOLID SURFACE COUNTERTOP AT 34" A.F.F. WITH ADA APRON PER DETAILS AND ADA
- F BRADLEY WALL MOUNTED TOILET PAPER DISPENSER - 582-110000
- G BRADLEY SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - 248-11
- H BRADLEY WALL MOUNTED SOAP DISPENSER - 681-11, PROVIDE DRIP TRAY
- I BRADLEY RECESSED TOILET PAPER DISPENSER - 582-00000
- J 24" X 24" MOP BASIN WITH MOP RACK AND FRP ON WALLS PER FINISH SCHEDULE
- K 24" x 48" FRAMELESS MIRROR ABOVE SINK, BOTTOM OF REFLECTIVE SURFACE AT 40" A.F.F. MAX PER ADA
- L FLOOR MOUNTED PLASTIC LAMINATE RESTROOM PARTITIONS (HPL-3)
- M WALL MOUNTED URINAL PARTITION (HPL-3)
- N BRADLEY STAINLESS STEEL HOOK 981-1102 MOUNTED AT 48" AND 60" AT ADA STALLS AND SINGLE RESTROOMS AND 60" AT STANDARD STALLS
- O UNDERMOUNT SINK WITH FAUCET PER PLUMBING AND ADA
- P HIGH / LOW DRINKING FOUNTAIN WITH BOTTLE DISPENSER PER PLUMBING AND ADA
- Q STAINLESS HEAVY DUTY SHOWER CURTAIN ROD WITH CONCEALED MOUNTING, VINYL CURTAIN AND STAINLESS RINGS. MOUNTING HEIGHT AT 74 1/2" A.F.F. PER MANUFACTURER'S RECOMMENDATION
- R ADA TWO-WALL SHOWER STAINLESS GRAB BAR AT 33"-36" A.F.F. AND 18" VERTICAL GRAB BARS PER ADA, PROVIDE ADEQUATE BLOCKING AS REQUIRED.
- S ADA KIT ON ADJUSTABLE MOUNT WITH 60" HOSE PER ADA, PROVIDE DIVERTER CONTROLS TO CONTROL WATER FROM STANDARD HEAD TO ADA COMPLIANT HAND HELD SHOWER HEAD
- T WALL MOUNTED SINK AND FAUCET PER ADA AND PLUMBING, PROVIDE INSULATED COVERING PER ADA
- U STAINLESS STEEL WALL MOUNTED SINK WITH EMERGENCY EYE WASH PER ADA AND PLUMBING
- V SANITARY LAVATORY LINE AND FIXTURE FOR AIRPLANE WASTE DISPOSAL PER PLUMBING
- W BRADLEY AUTOMATIC WATER / SOAP UNIT WASHBAR DUO IN BRUSHED STAINLESS STEEL WITH UNDER COUNTER SOAP CONTAINER - WBD1
- X BRADLEY OMNIDECK TERREON SOLID SURFACE COUNTER WITH INTEGRAL SINK WB-TR1, FRONT APRON, AND ADA ACCESS PANEL
- Y HAWS BARRIER FREE RECESSED EMERGENCY SHOWER AND EYE WASH STATION - 8356WCC
- Z BRADLEY WALL MOUNTED ADA SHOWER SEAT - 9569-00000, MOUNTED PER ADA



ENLARGED PLAN - LEVEL 1 RESTROOMS

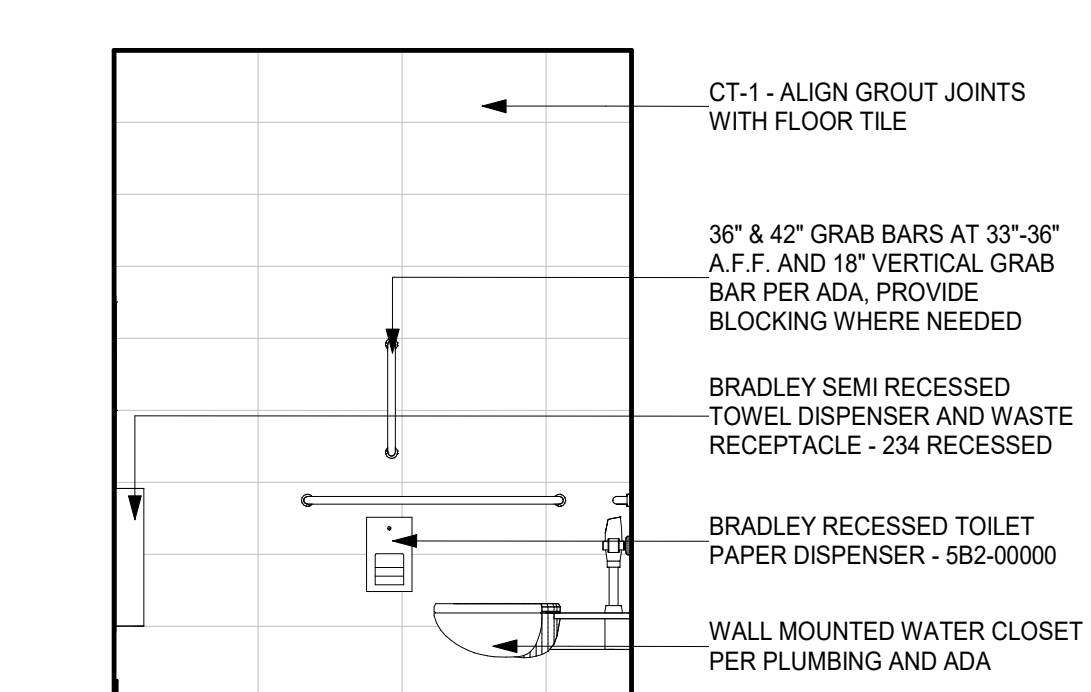
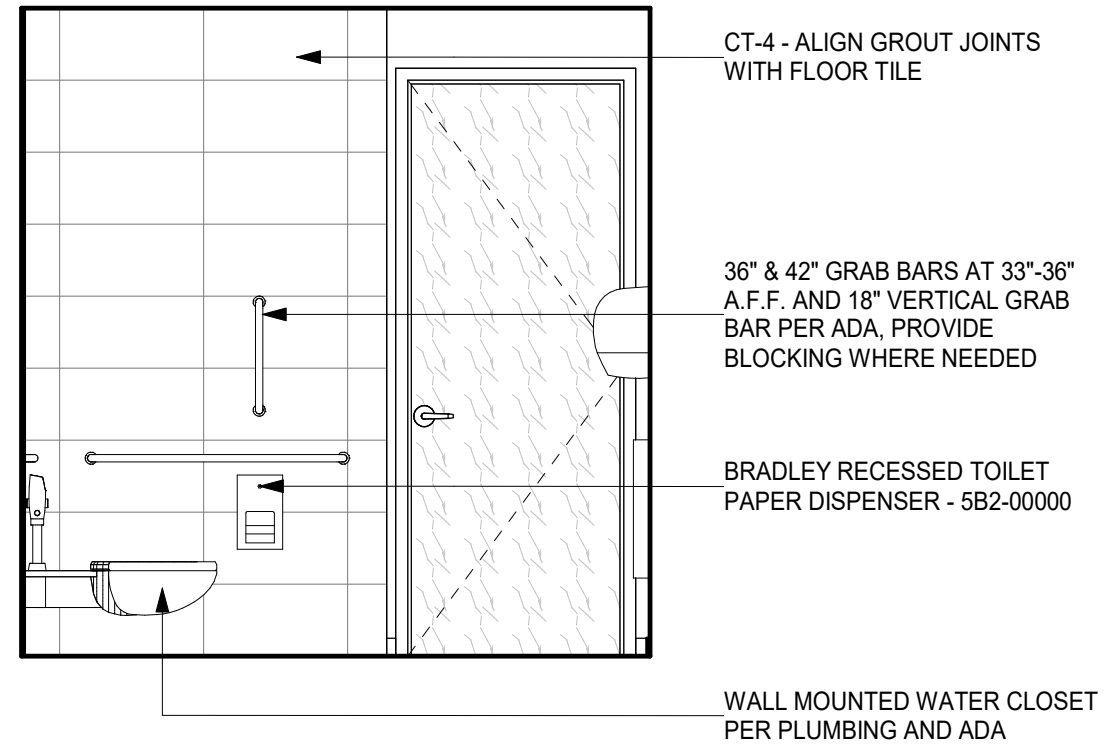
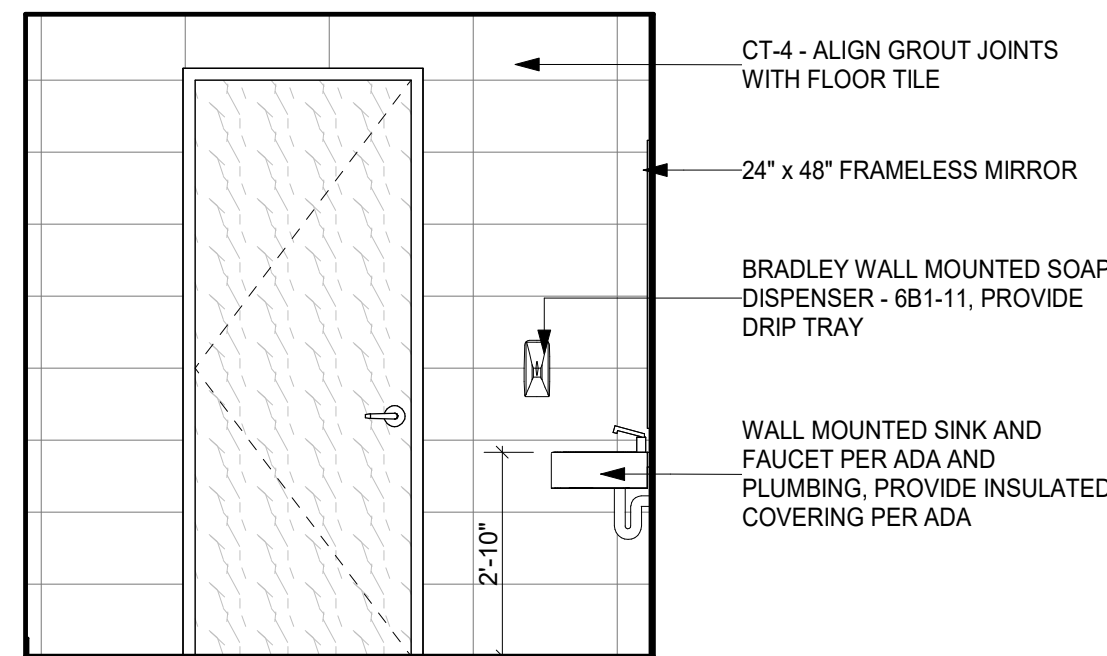
REFERENCED FROM 1 / A102

3/8" = 1'-0"

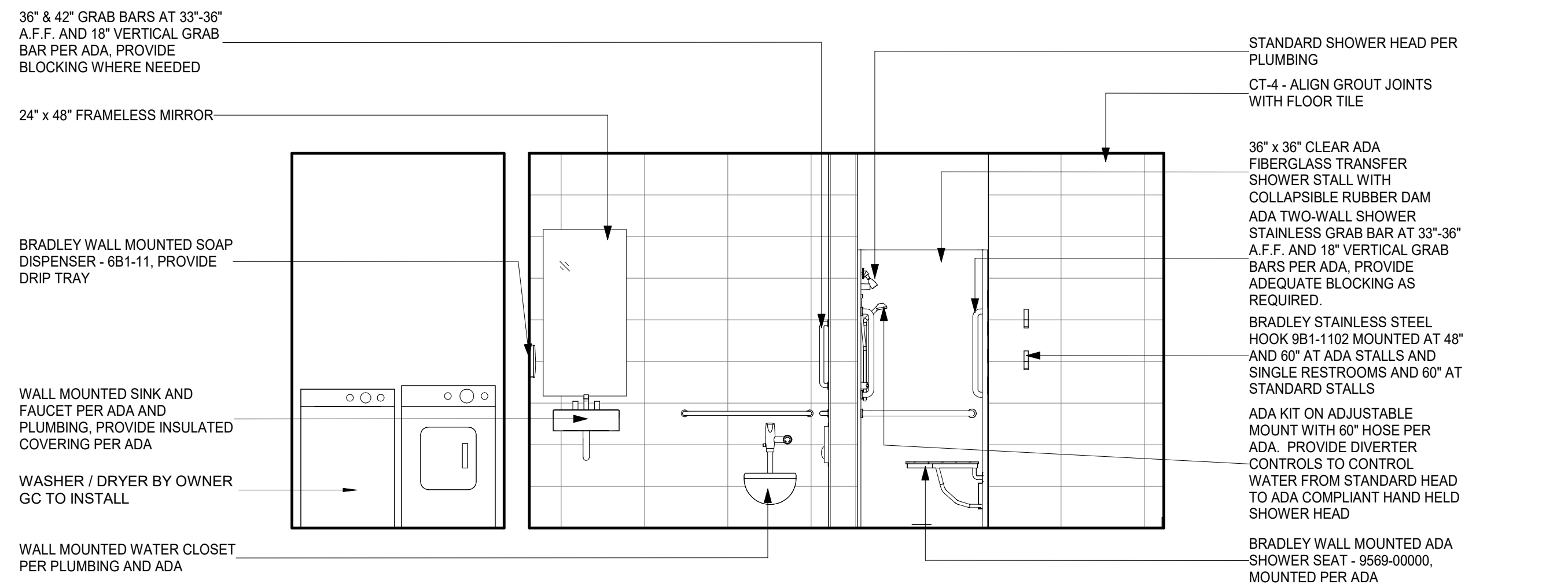
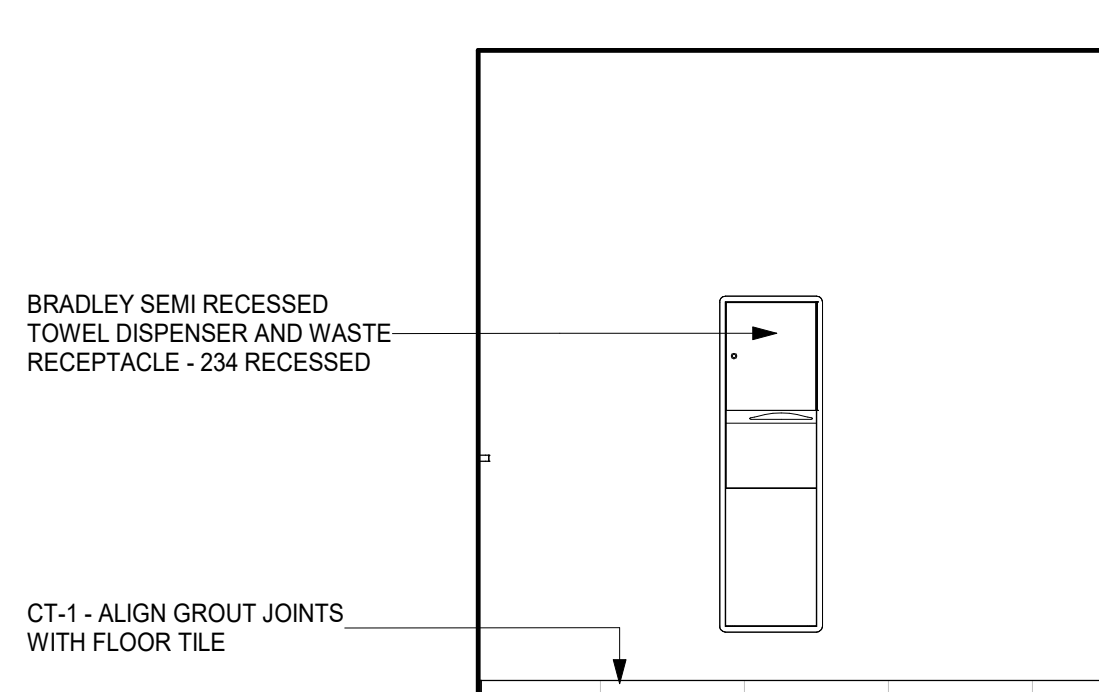
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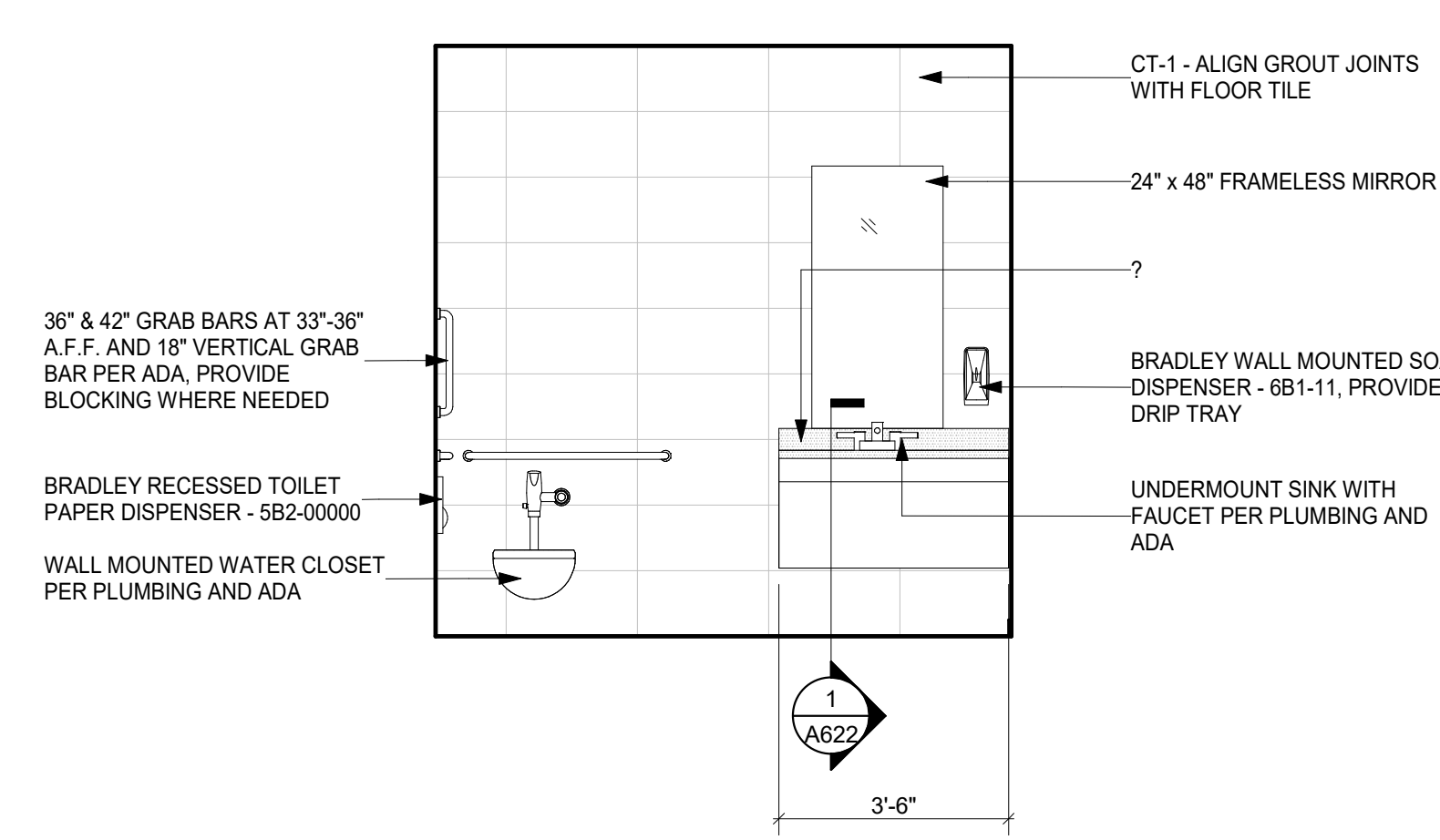
122 WETROOM WEST
REFERENCED FROM 4 / A402 3/8" = 1'-0" 15



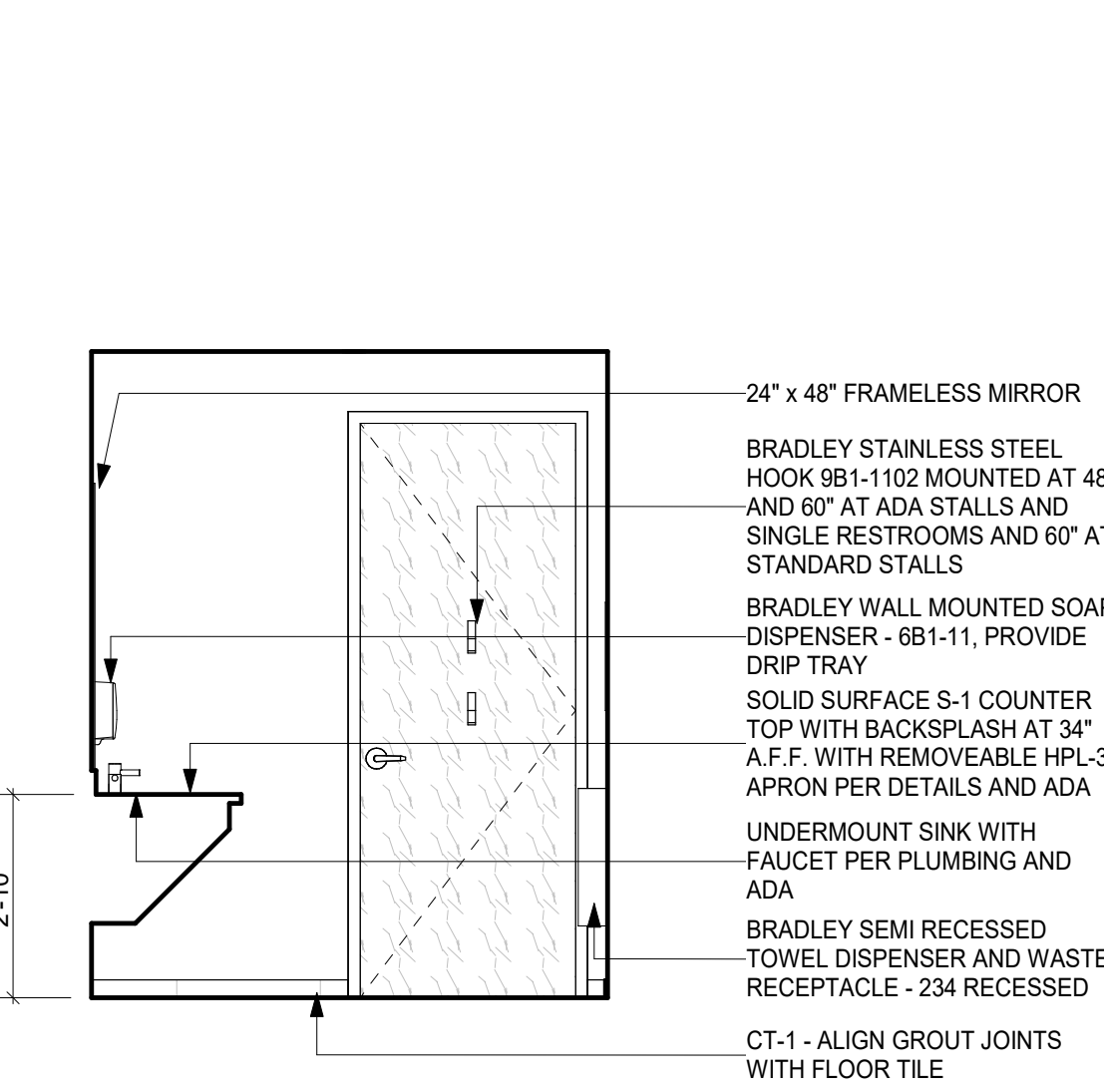
123 RESTROOM SOUTH
REFERENCED FROM 1 / A401 3/8" = 1'-0" 14



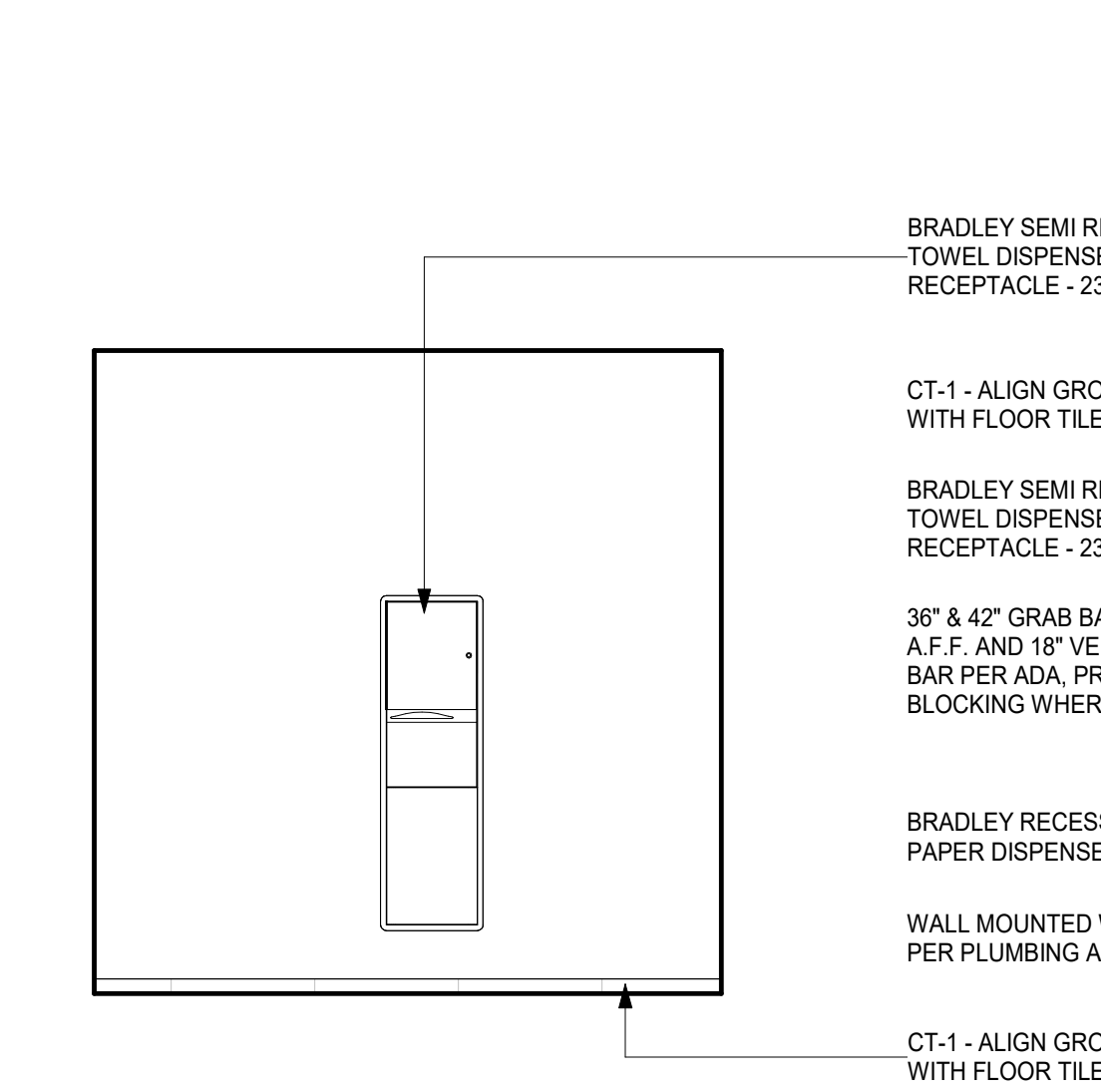
123 RESTROOM NORTH
REFERENCED FROM 1 / A401 3/8" = 1'-0" 13



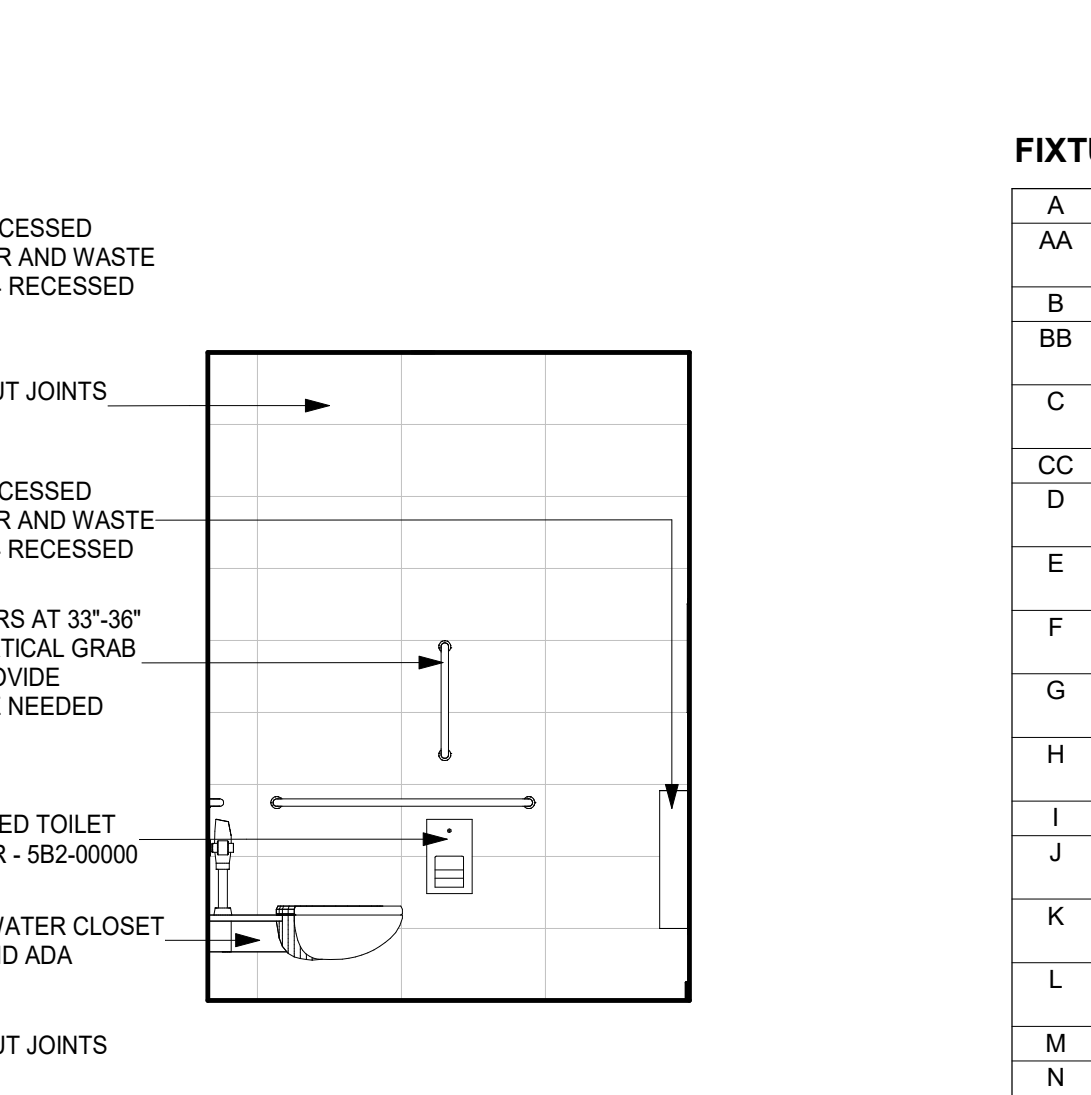
123 RESTROOM WEST
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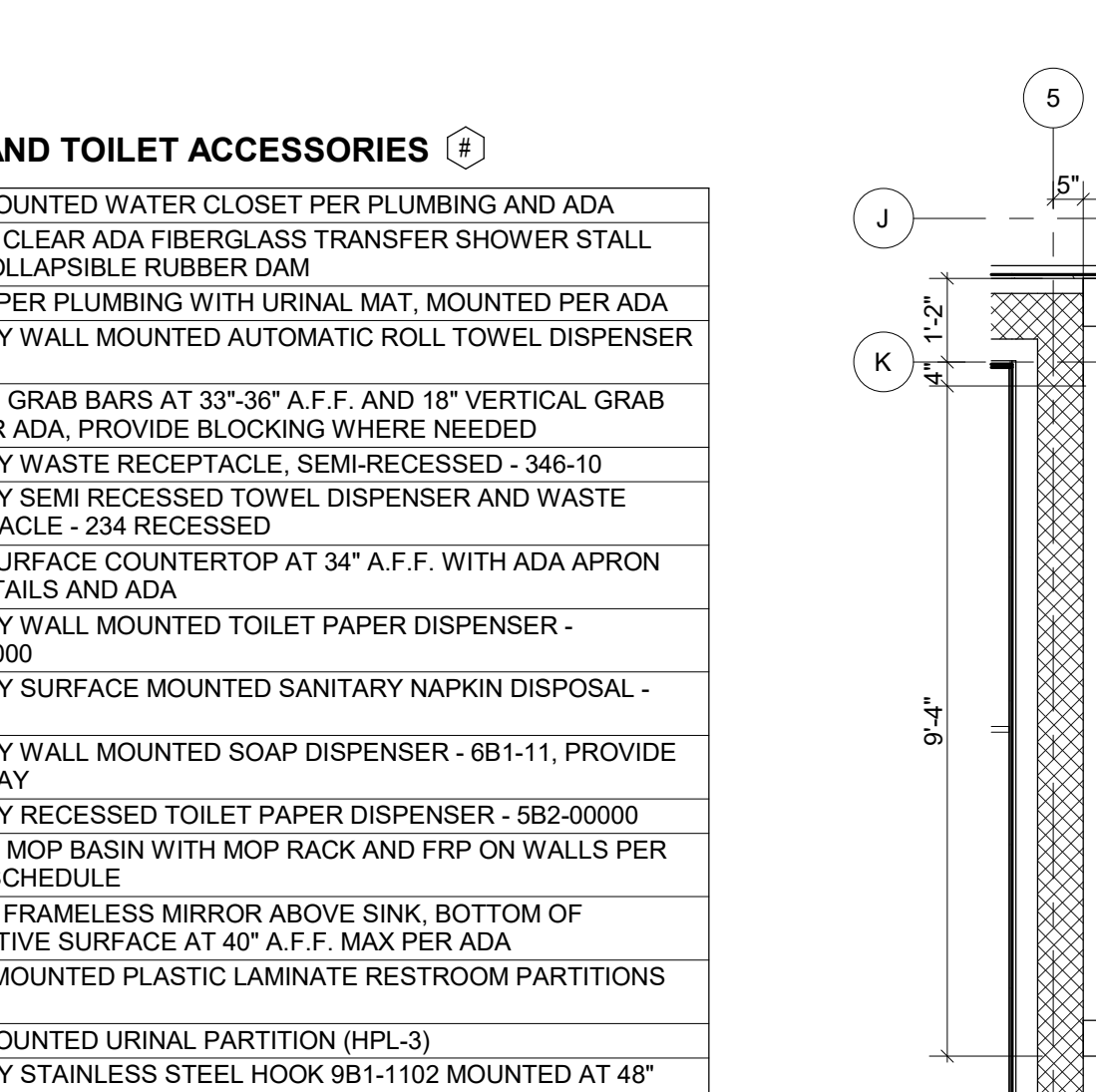
123 RESTROOM EAST
REFERENCED FROM 4 / A402 3/8" = 1'-0" 11



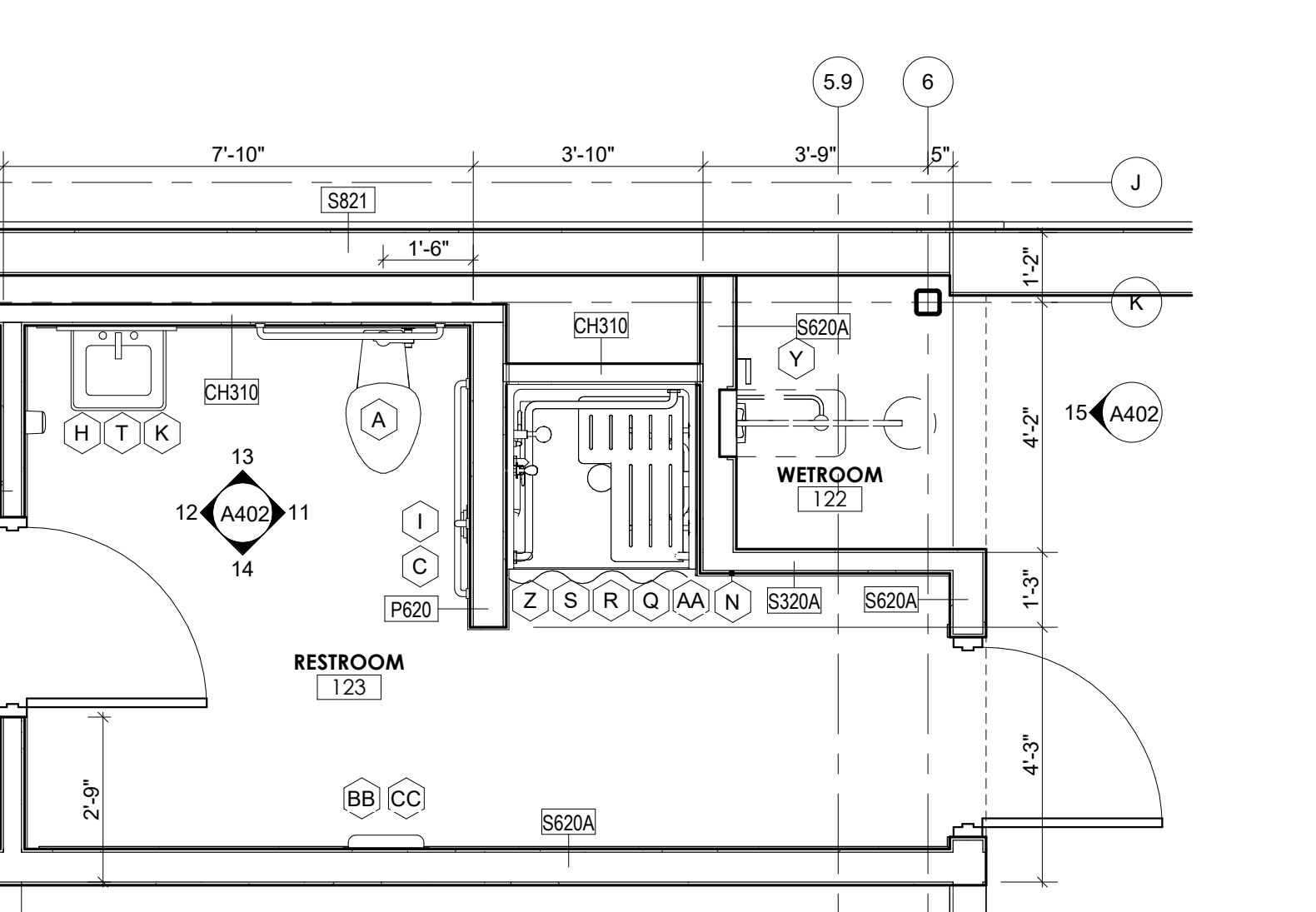
210 RESTROOM SOUTH
REFERENCED FROM 1 / A402 3/8" = 1'-0" 10



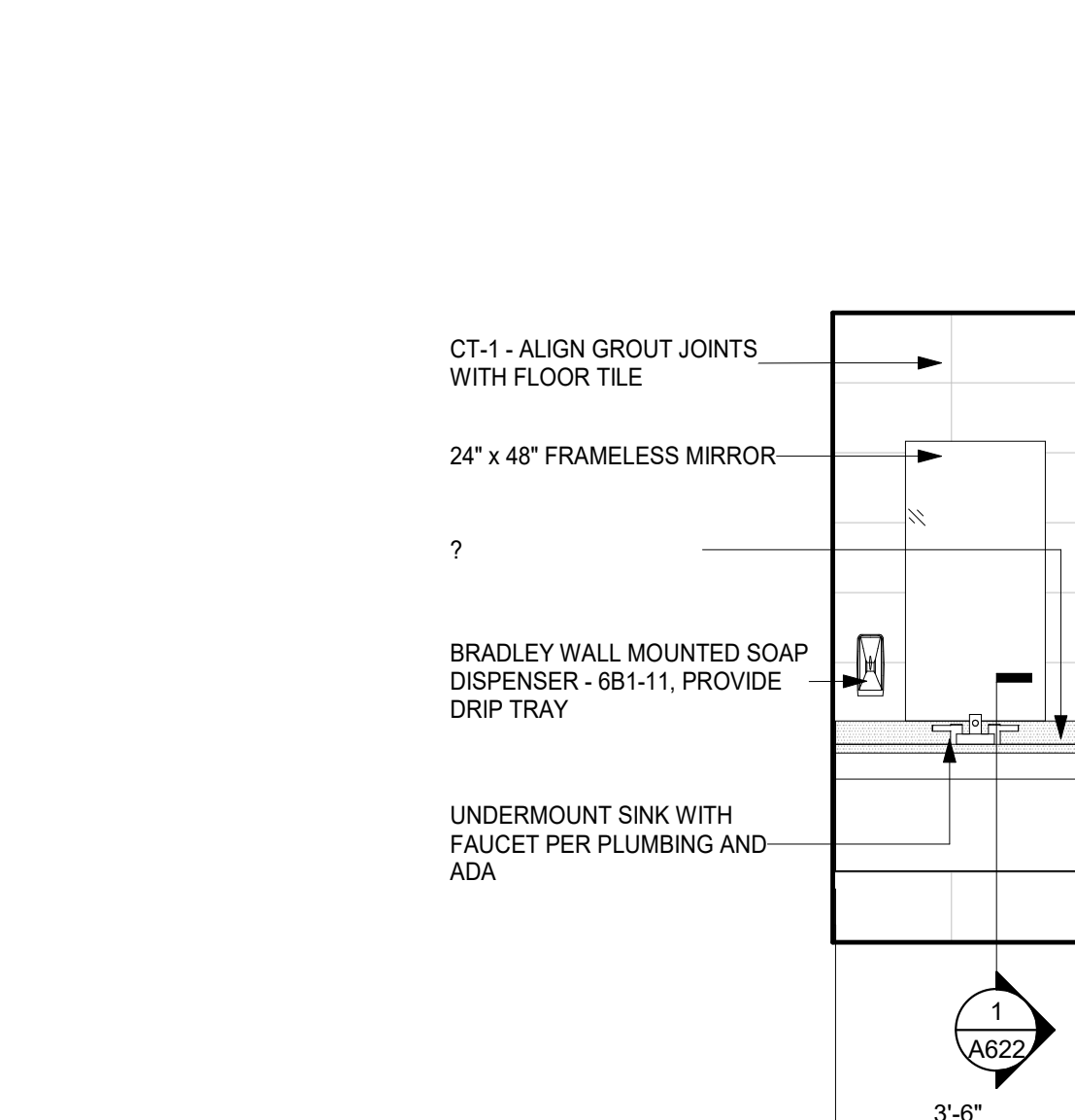
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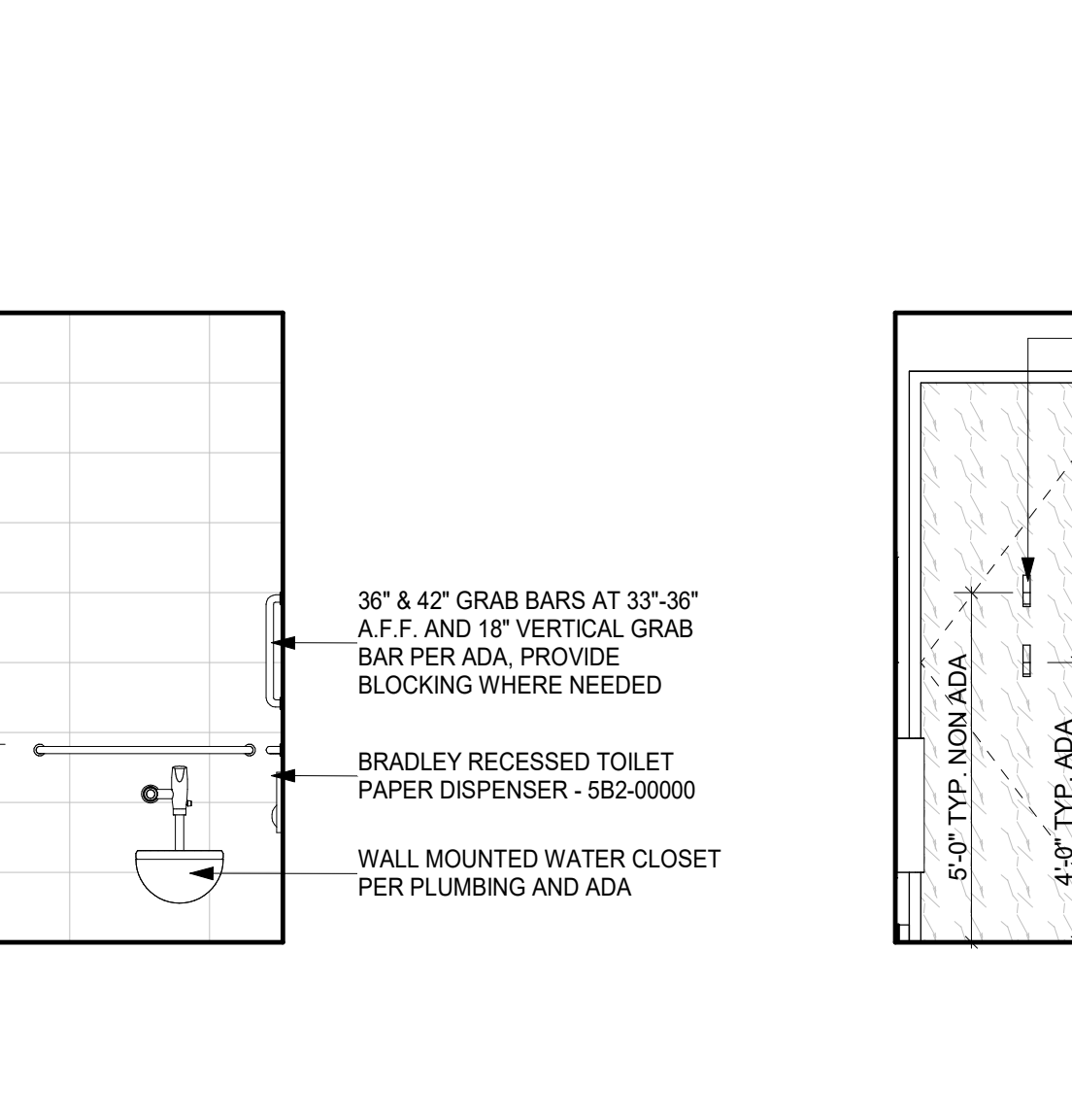
210 RESTROOM WEST
REFERENCED FROM 1 / A402 3/8" = 1'-0" 8



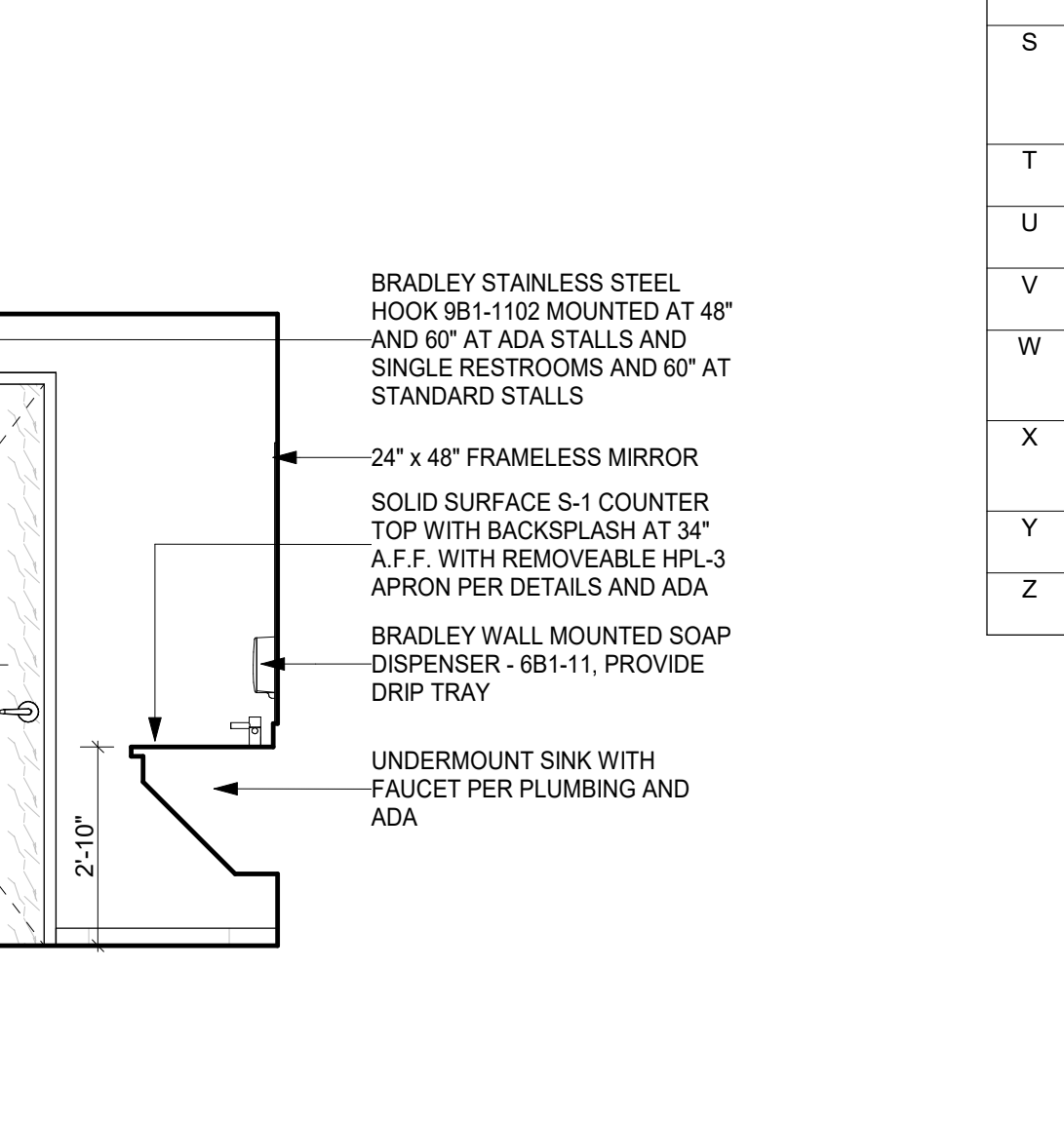
210 RESTROOM NORTH
REFERENCED FROM 1 / A402 3/8" = 1'-0" 7



208 RESTROOM WEST
REFERENCED FROM 1 / A402 3/8" = 1'-0" 6



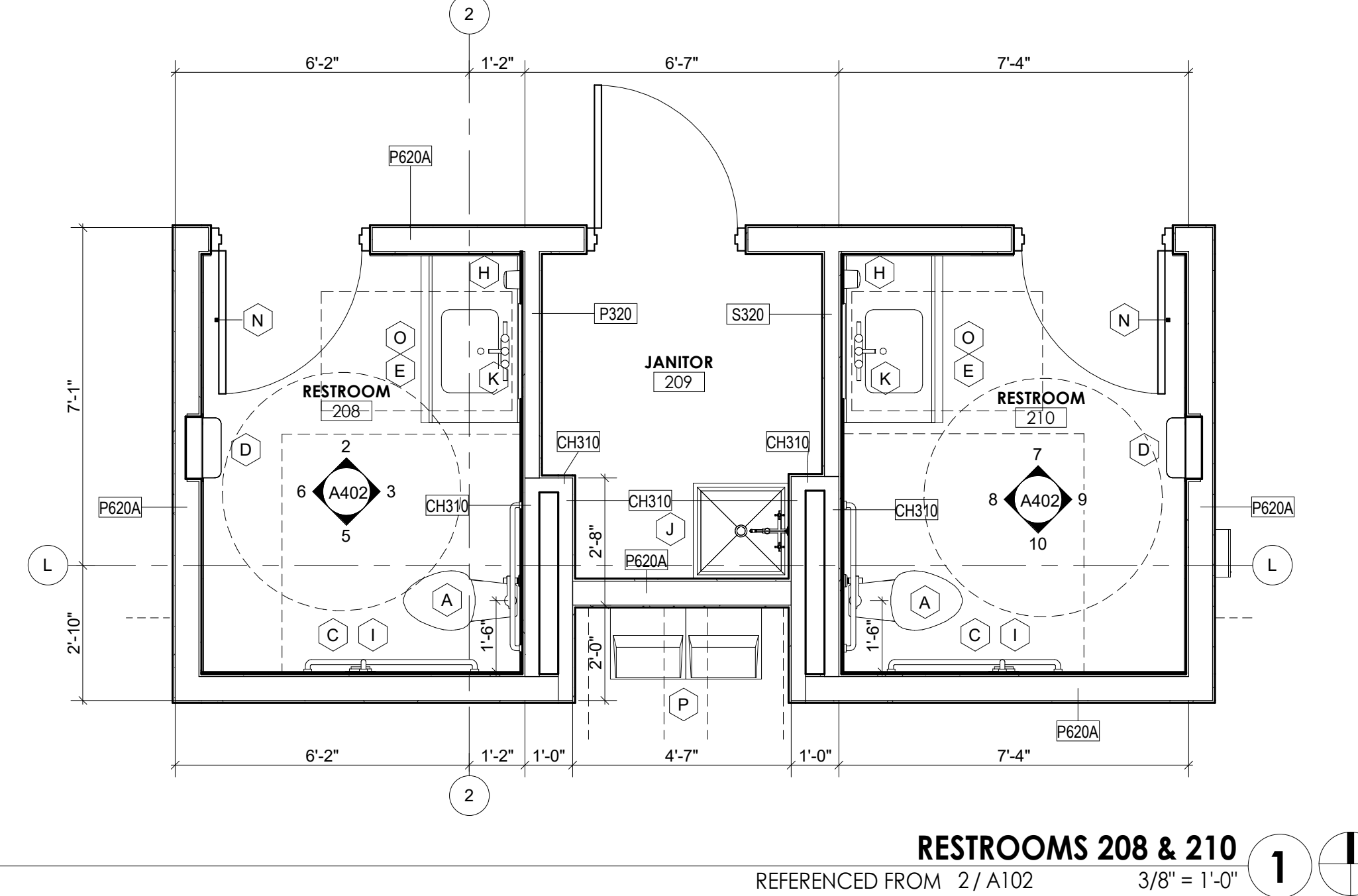
208 RESTROOM SOUTH
REFERENCED FROM 1 / A402 3/8" = 1'-0" 5



FIXTURES AND TOILET ACCESSORIES

- A WALL MOUNTED WATER CLOSET PER PLUMBING AND ADA
- AA 36" x 36" CLEAR ADA FIBERGLASS TRANSFER SHOWER STALL WITH COLLAPSIBLE RUBBER DAM
- B URINAL PER PLUMBING WITH URINAL MAT, MOUNTED PER ADA
- BB BRADLEY WALL MOUNTED AUTOMATIC ROLL TOWEL DISPENSER - 2494
- C 36" & 42" GRAB BARS AT 33"-36" A.F.F. AND 18" VERTICAL GRAB BAR PER ADA, PROVIDE BLOCKING WHERE NEEDED
- CC BRADLEY WASTE RECEPTACLE, SEMI-RECESSED - 346-10
- D BRADLEY SEMI RECESSED TOWEL DISPENSER AND WASTE RECEPTACLE - 234 RECESSED
- E SOLID SURFACE COUNTERTOP AT 34" A.F.F. WITH ADA APRON PER DETAILS AND ADA
- F BRADLEY WALL MOUNTED TOILET PAPER DISPENSER - 582-110000
- G BRADLEY SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - 248-11
- H BRADLEY WALL MOUNTED SOAP DISPENSER - 681-11, PROVIDE DRIP TRAY
- I BRADLEY RECESSED TOILET PAPER DISPENSER - 582-00000
- J 24" X 24" MOP BASIN WITH MOP RACK AND FRP ON WALLS PER FINISH SCHEDULE
- K 24" X 48" FRAMELESS MIRROR ABOVE SINK, BOTTOM OF REFLECTIVE SURFACE AT 40" A.F.F. MAX PER ADA
- L FLOOR MOUNTED PLASTIC LAMINATE RESTROOM PARTITIONS (HPL-3)
- M WALL MOUNTED URINAL PARTITION (HPL-3)
- N BRADLEY STAINLESS STEEL HOOK 981-1102 MOUNTED AT 48" AND 60" AT ADA STALLS AND SINGLE RESTROOMS AND 60" AT STANDARD STALLS
- O UNDERMOUNT SINK WITH FAUCET PER PLUMBING AND ADA
- P HIGH / LOW DRINKING FOUNTAIN WITH BOTTLE DISPENSER PER PLUMBING AND ADA
- Q STAINLESS HEAVY DUTY SHOWER CURTAIN ROD WITH CONCEALED MOUNTING, VINYL CURTAIN AND STAINLESS RINGS, MOUNTING HEIGHT AT 74 1/2" A.F.F. PER MANUFACTURER'S RECOMMENDATION
- R ADA TWO-WALL SHOWER STAINLESS GRAB BAR AT 33"-36" A.F.F. AND 18" VERTICAL GRAB BARS PER ADA, PROVIDE ADEQUATE BLOCKING AS REQUIRED.
- S ADA KIT ON ADJUSTABLE MOUNT WITH 60" HOSE PER ADA, PROVIDE DIVERTER CONTROLS TO CONTROL WATER FROM STANDARD HEAD TO ADA COMPLIANT HAND HELD SHOWER HEAD
- T WALL MOUNTED SINK AND FAUCET PER ADA AND PLUMBING, PROVIDE INSULATED COVERING PER ADA
- U STAINLESS STEEL WALL MOUNTED SINK WITH EMERGENCY EYE WASH PER ADA AND PLUMBING
- V SANITARY LAVATORY LINE AND FIXTURE FOR AIRPLANE WASTE DISPOSAL PER PLUMBING
- W BRADLEY AUTOMATIC WATER / SOAP UNIT WASHBAR DUO IN BRUSHED STAINLESS STEEL WITH UNDER COUNTER SOAP CONTAINER - WB01
- X BRADLEY OMNIDECK TERREON SOLID SURFACE COUNTER WITH INTEGRAL SINK WB-TR1, FRONT APRON, AND ADA ACCESS PANEL
- Y HAWS BARRIER FREE RECESSED EMERGENCY SHOWER AND EYE WASH STATION - 8356WCC
- Z BRADLEY WALL MOUNTED ADA SHOWER SEAT - 9569-00000, MOUNTED PER ADA

ENLARGED PLAN - LEVEL 1 RESTROOMS SCHOOL
REFERENCED FROM 1 / A102 3/8" = 1'-0" 4



208 RESTROOM EAST
REFERENCED FROM 1 / A402 3/8" = 1'-0" 3



208 RESTROOM NORTH
REFERENCED FROM 1 / A402 3/8" = 1'-0" 2



RESTROOMS 208 & 210
REFERENCED FROM 2 / A102 3/8" = 1'-0" 1



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

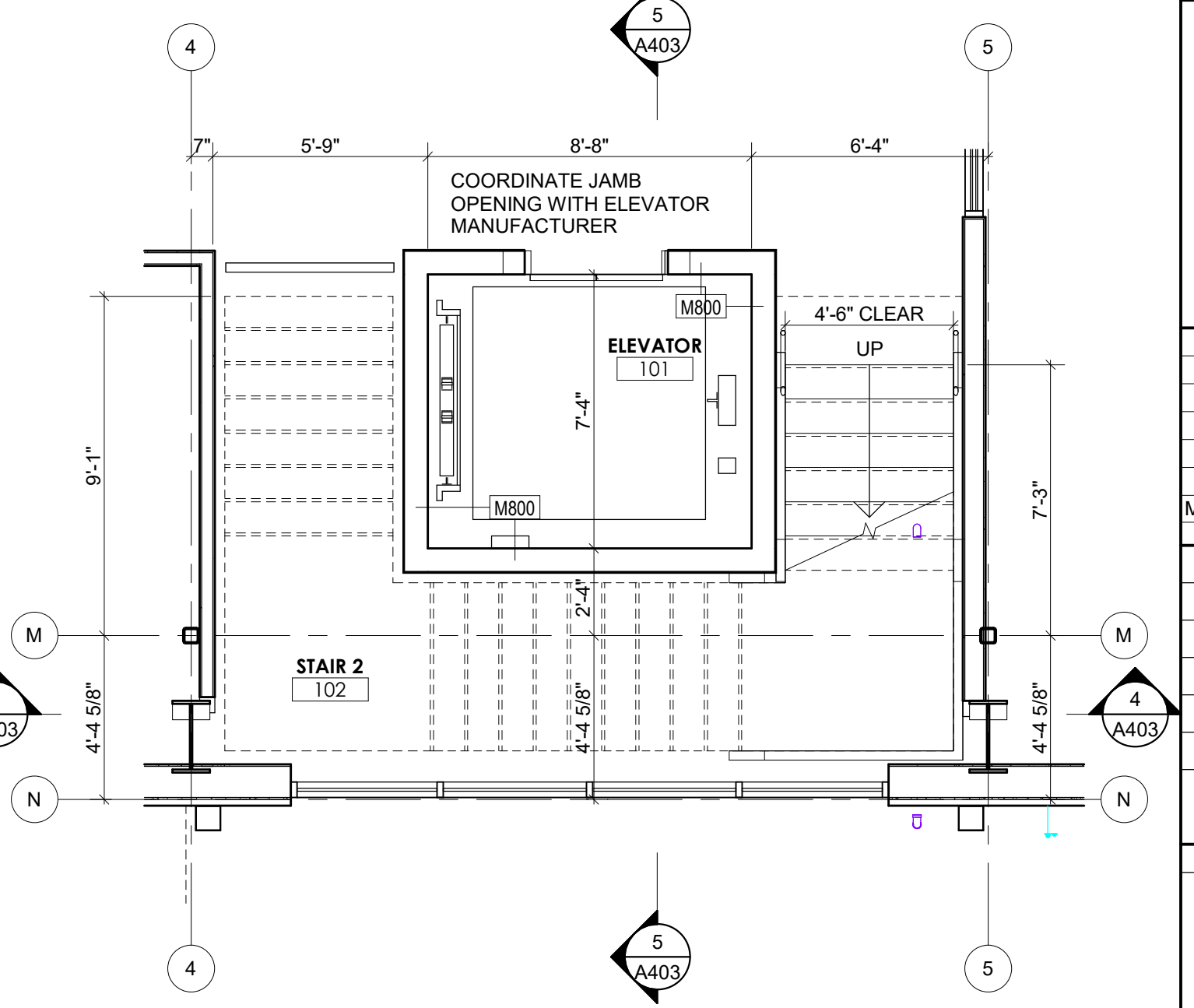
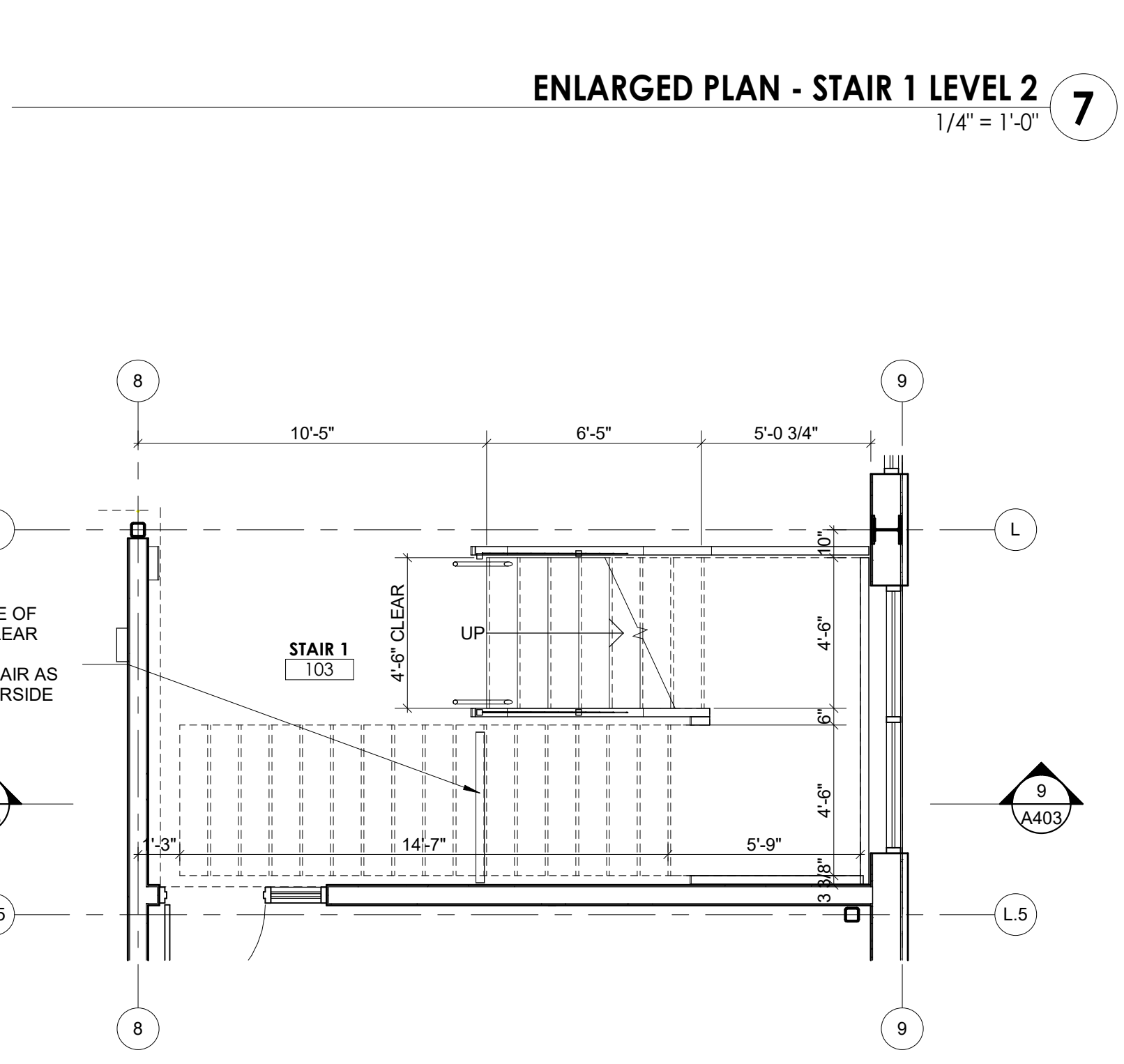
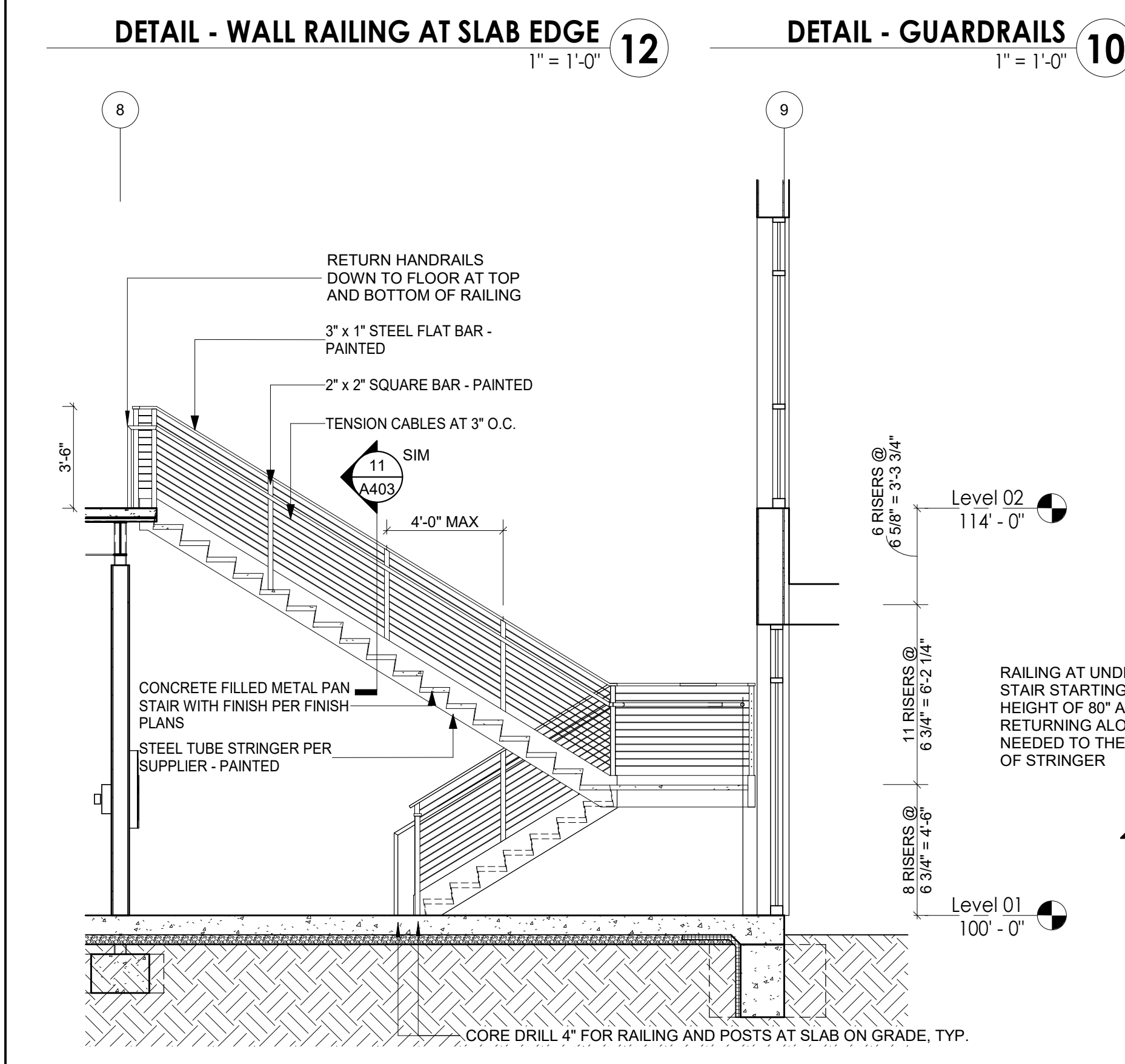
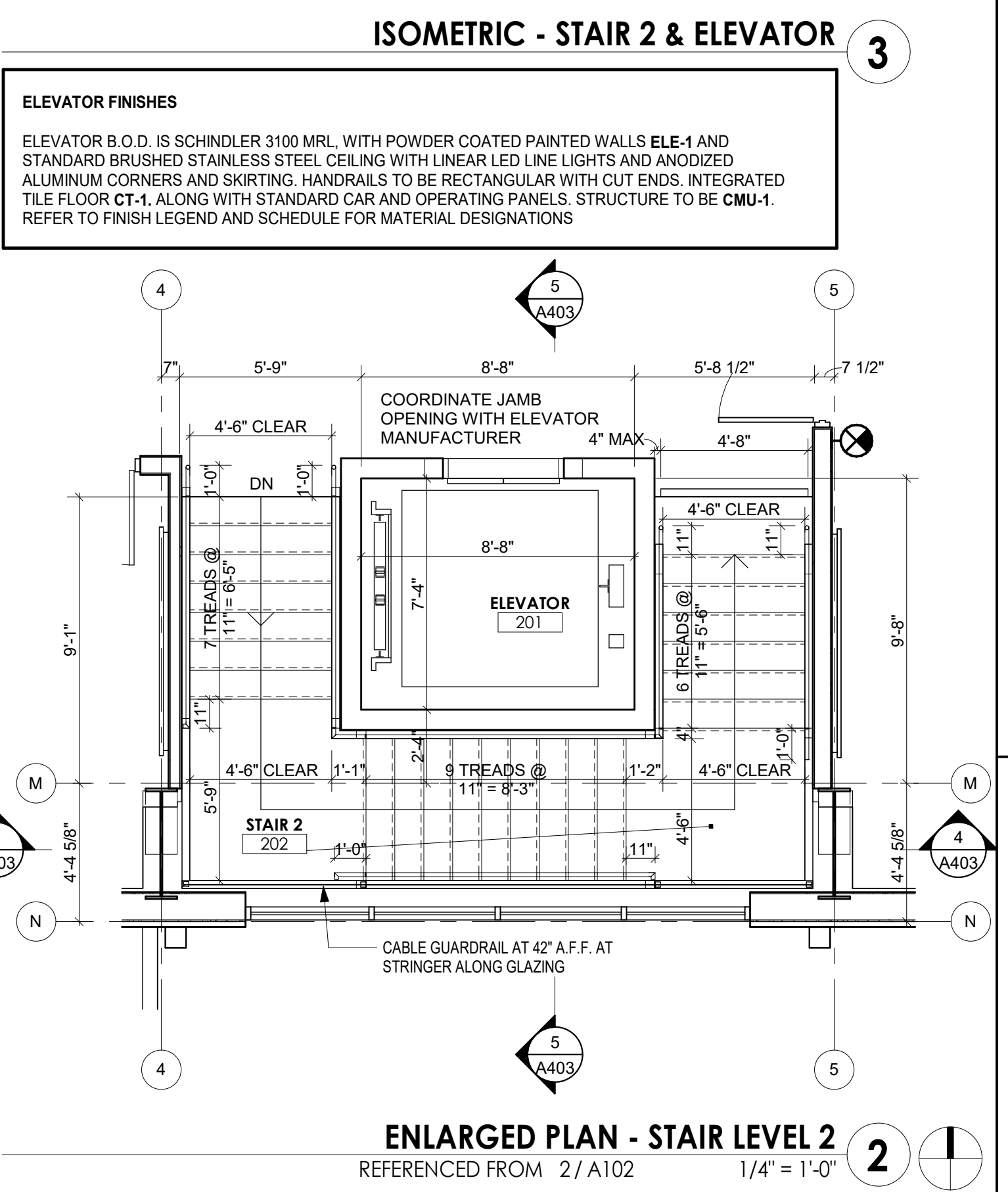
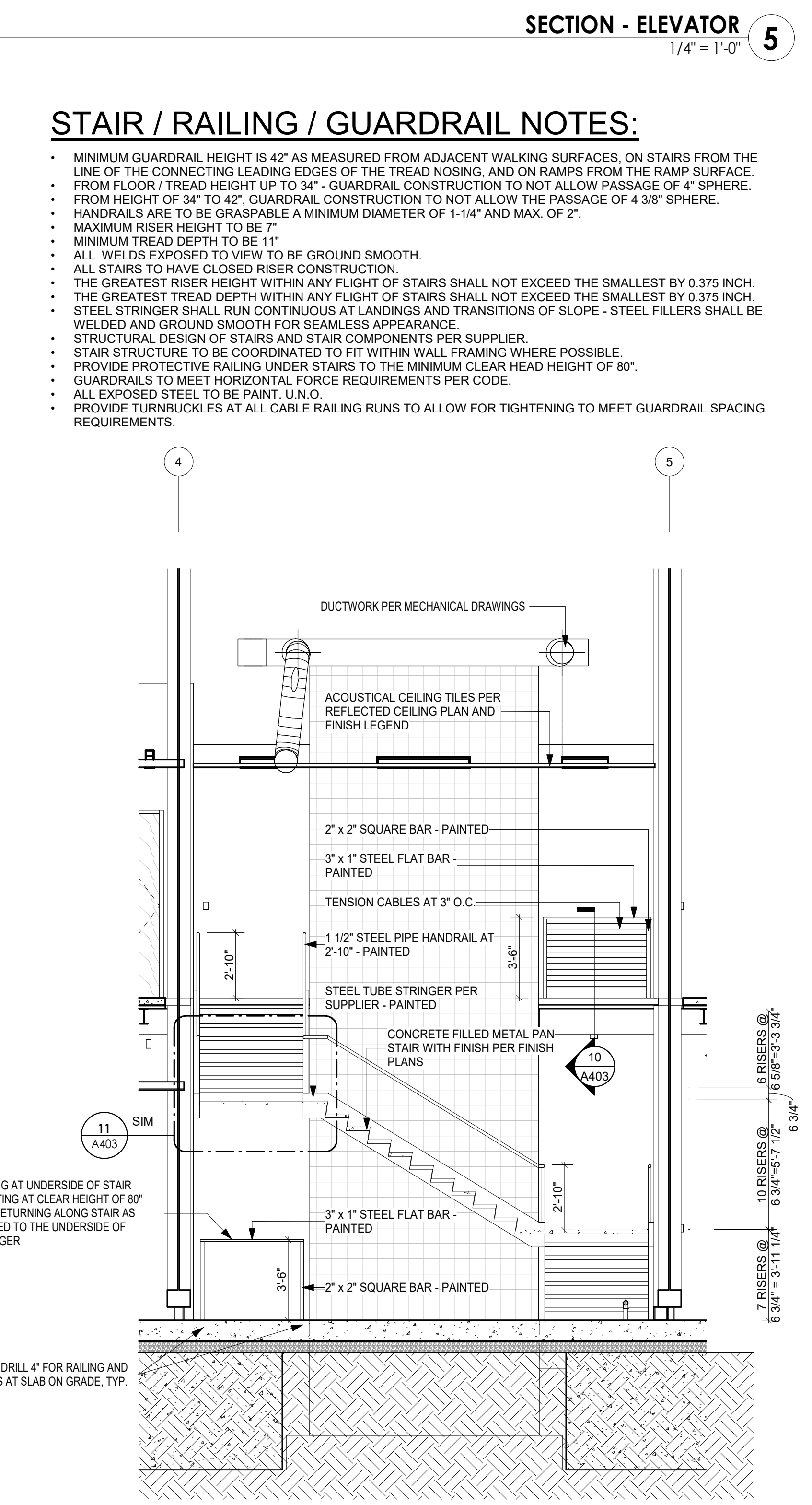
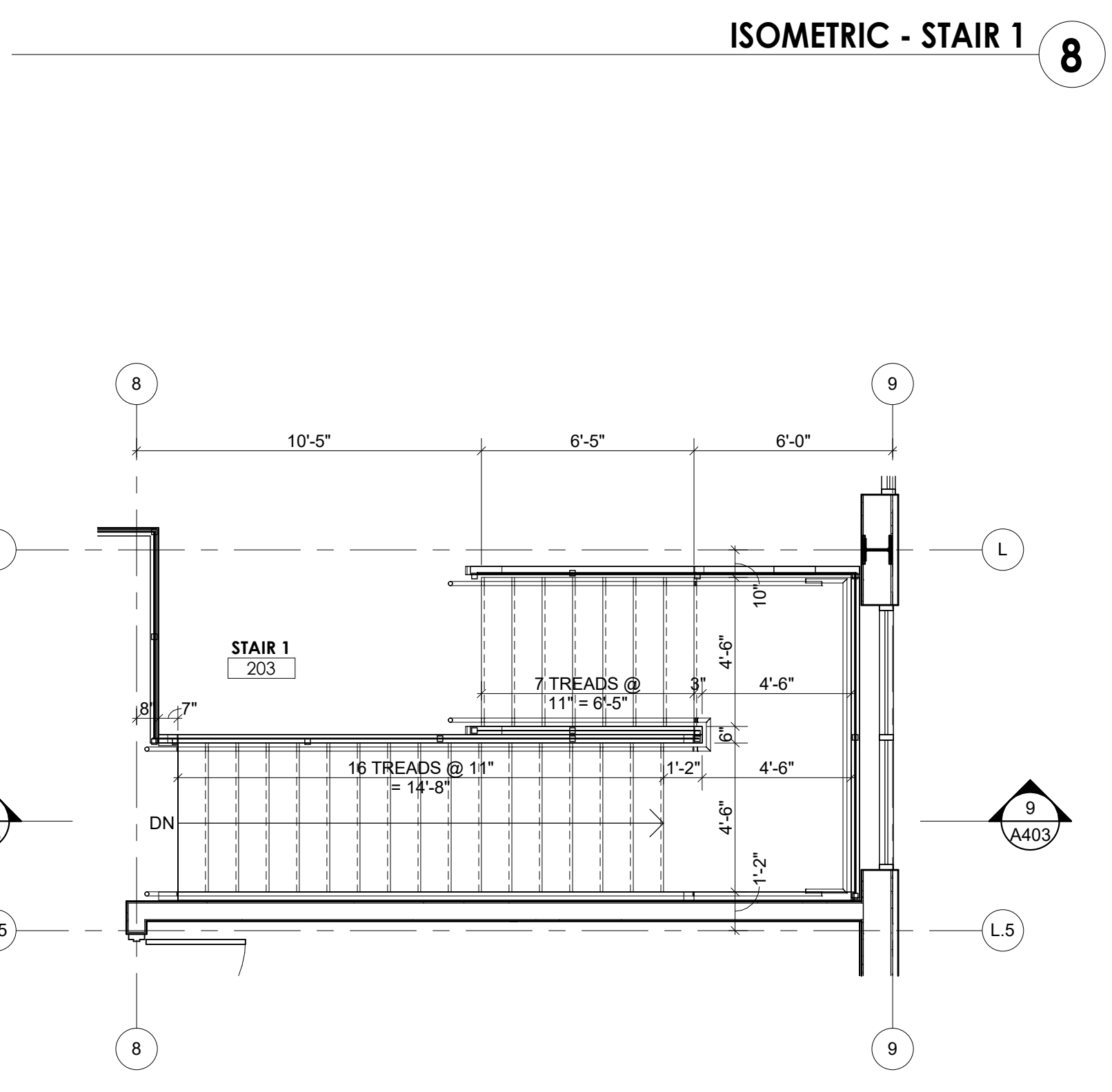
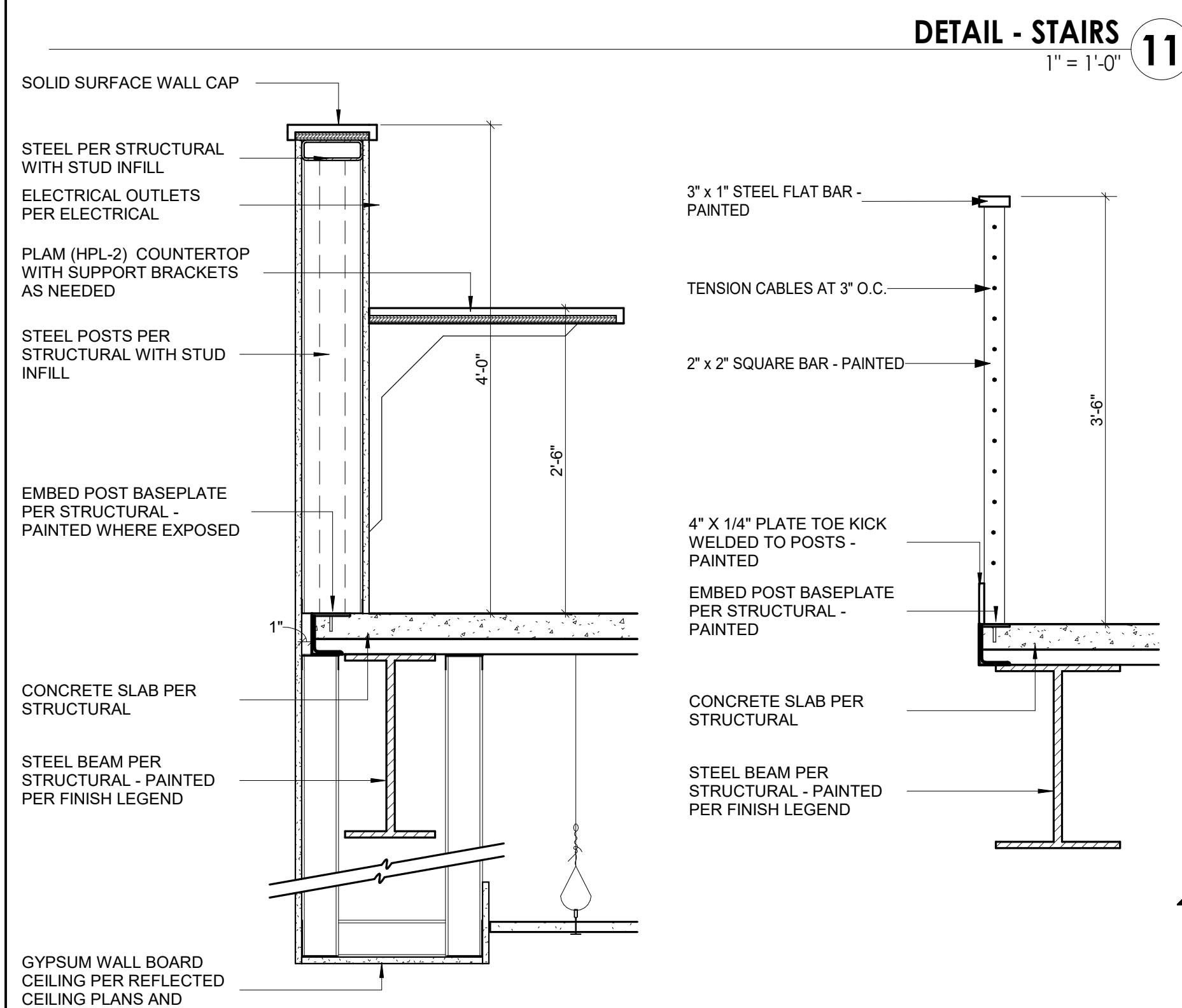
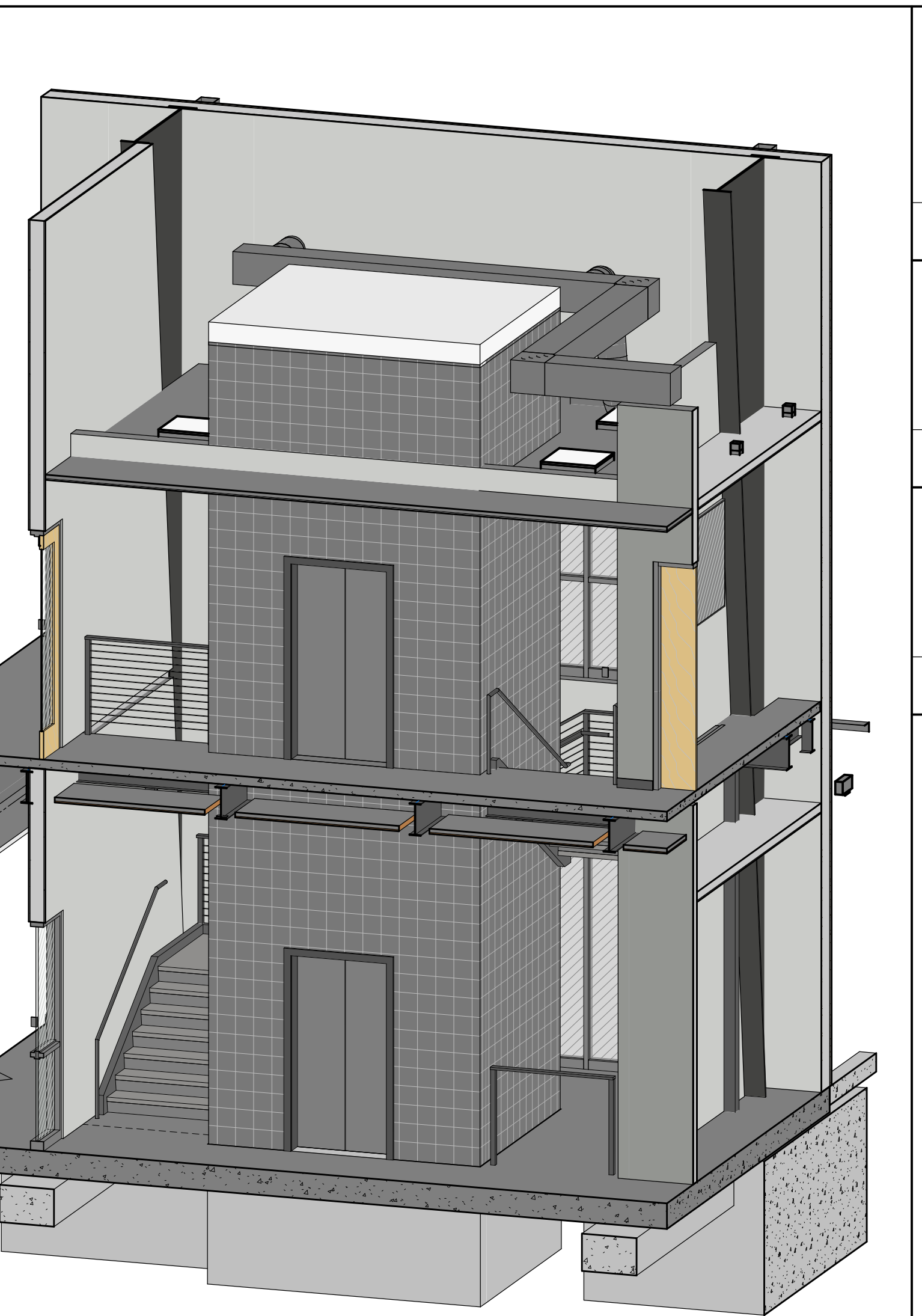
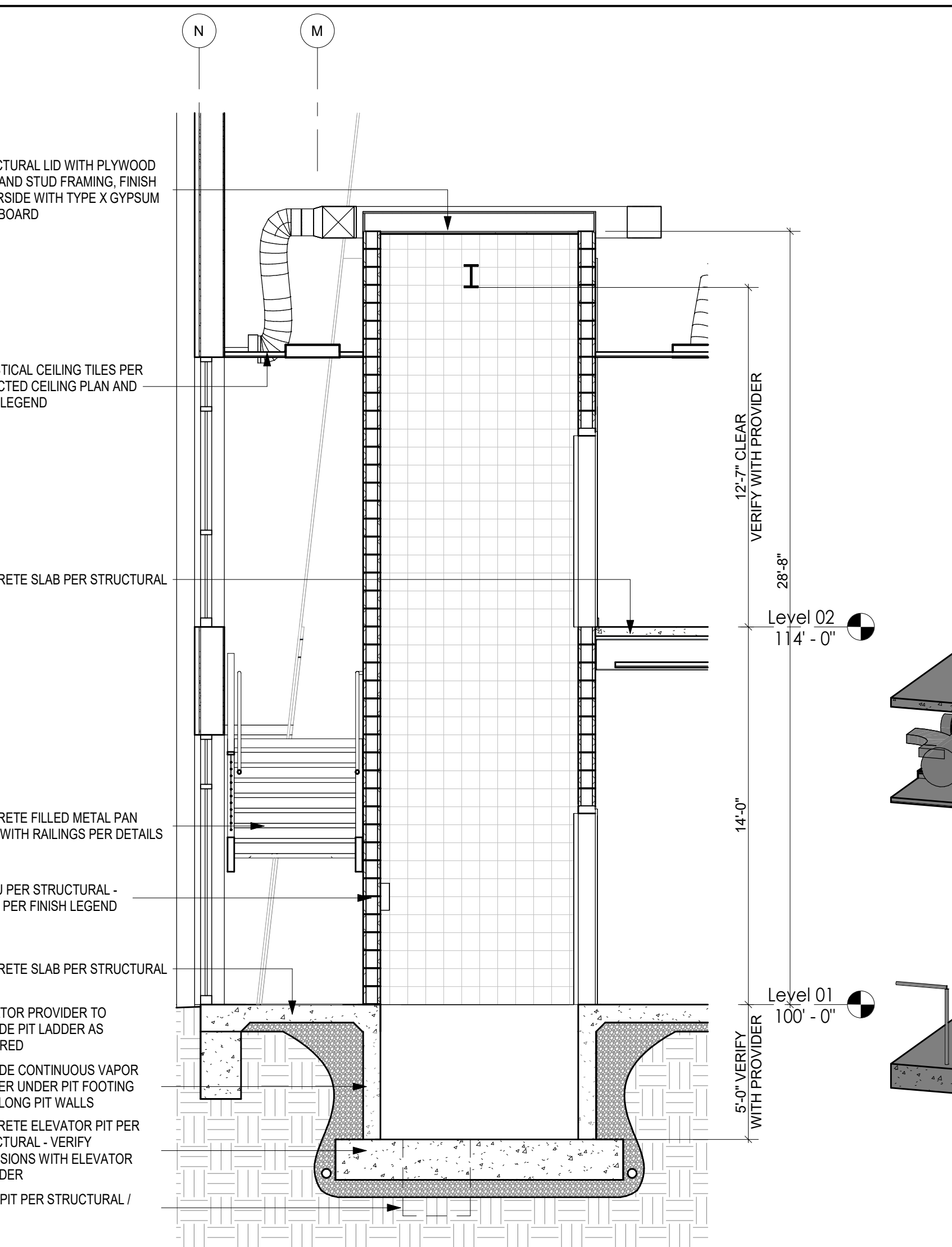
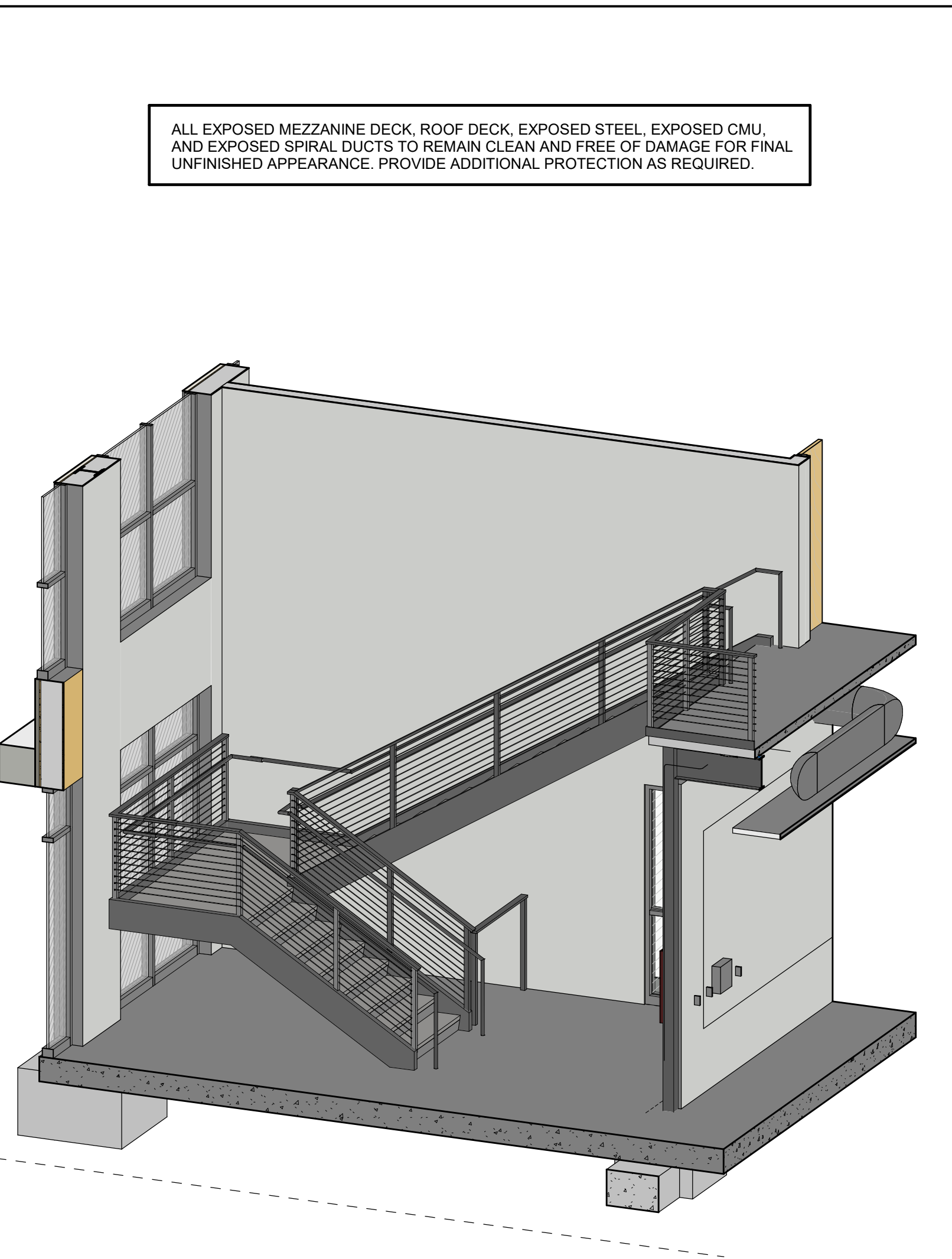
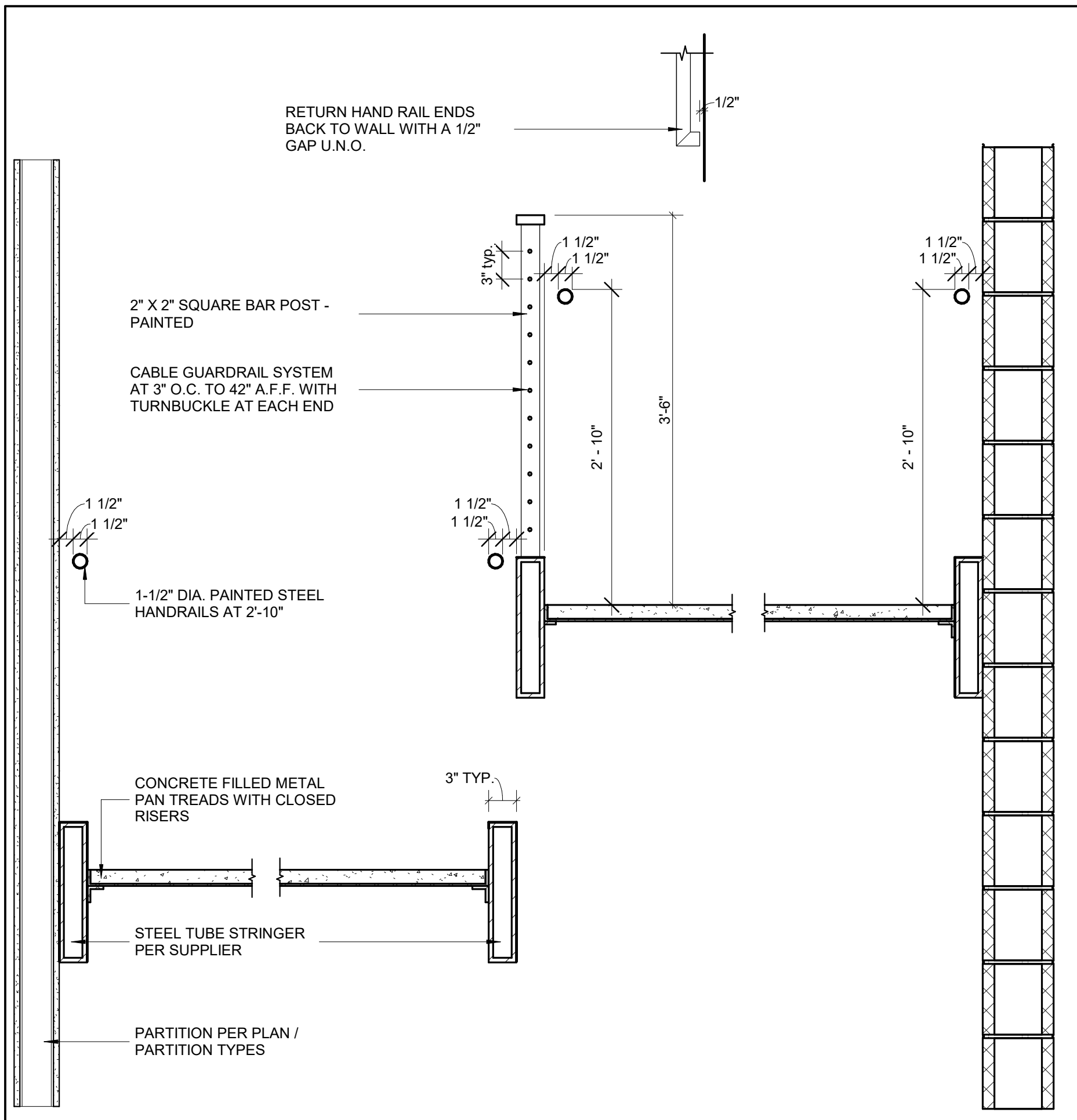
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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt	
DESIGNED BY:	DM	
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SHEET TITLE

ENLARGED
RESTROOM PLANS &
ELEVATIONS

A402

SHEET 070 OF 131



STAIR / RAILING / GUARDRAIL NOTES:

- MINIMUM GUARDRAIL HEIGHT IS 42" AS MEASURED FROM ADJACENT WALKING SURFACES. ON STAIRS FROM THE LINE OF THE CONNECTING LEADING EDGES OF THE TREAD NOSING, AND ON RAMPS FROM THE RAMP SURFACE.
- FROM FLOOR / TREAD HEIGHT UP TO 34". GUARDRAIL CONSTRUCTION TO NOT ALLOW PASSAGE OF 4" SPHERE.
- FROM HEIGHT OF 34" TO 42". GUARDRAIL CONSTRUCTION TO NOT ALLOW THE PASSAGE OF 4 3/8" SPHERE.
- HANDRAILS ARE TO BE GRASPABLE A MINIMUM DIAMETER OF 1-1/4" AND MAX. OF 2".
- MAXIMUM RISER HEIGHT TO BE 7".
- MINIMUM TREAD DEPTH TO BE 11".
- ALL WELDS EXPOSED TO VIEW TO BE GROUND SMOOTH.
- ALL STAIRS TO HAVE CLOSED RISER CONSTRUCTION.
- THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY 0.375 INCH.
- THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY 0.375 INCH.
- STEEL STRINGER SHALL RUN CONTINUOUS AT LANDINGS AND TRANSITIONS OF SLOPE. STEEL FILLS SHALL BE WELDED AND GROUND SMOOTH FOR SEAMLESS APPEARANCE.
- STRUCTURAL DESIGN OF STAIRS AND STAIR COMPONENTS PER SUPPLIER.
- STAIR STRUCTURE TO BE COORDINATED TO FIT WITHIN WALL FRAMING WHERE POSSIBLE.
- PROVIDE PROTECTIVE RAILING UNDER STAIRS TO THE MINIMUM CLEAR HEAD HEIGHT OF 80".
- GUARDRAILS TO MEET HORIZONTAL FORCE REQUIREMENTS PER CODE.
- ALL EXPOSED STEEL TO BE PAINT. U.N.O.
- PROVIDE TURNBUCKLES AT ALL CABLE RAILING RUNS TO ALLOW FOR TIGHTENING TO MEET GUARDRAIL SPACING REQUIREMENTS.

ELEVATOR FINISHES
ELEVATOR B.O.D. IS SCHINDLER 3100 MRL WITH POWDER COATED PAINTED WALLS ELE-1 AND STANDARD BRUSHED STAINLESS STEEL CEILING WITH LINEAR LED LINE LIGHTS AND ANODIZED ALUMINUM CORNERS AND SKIRTING. HANDRAILS TO BE RECTANGULAR WITH CUT ENDS. INTEGRATED TILE FLOOR GT-1 ALONG WITH STANDARD CAR AND OPERATING PANELS. STRUCTURE TO BE CMU-1. REFER TO FINISH LEGEND AND SCHEDULE FOR MATERIAL DESIGNATIONS



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

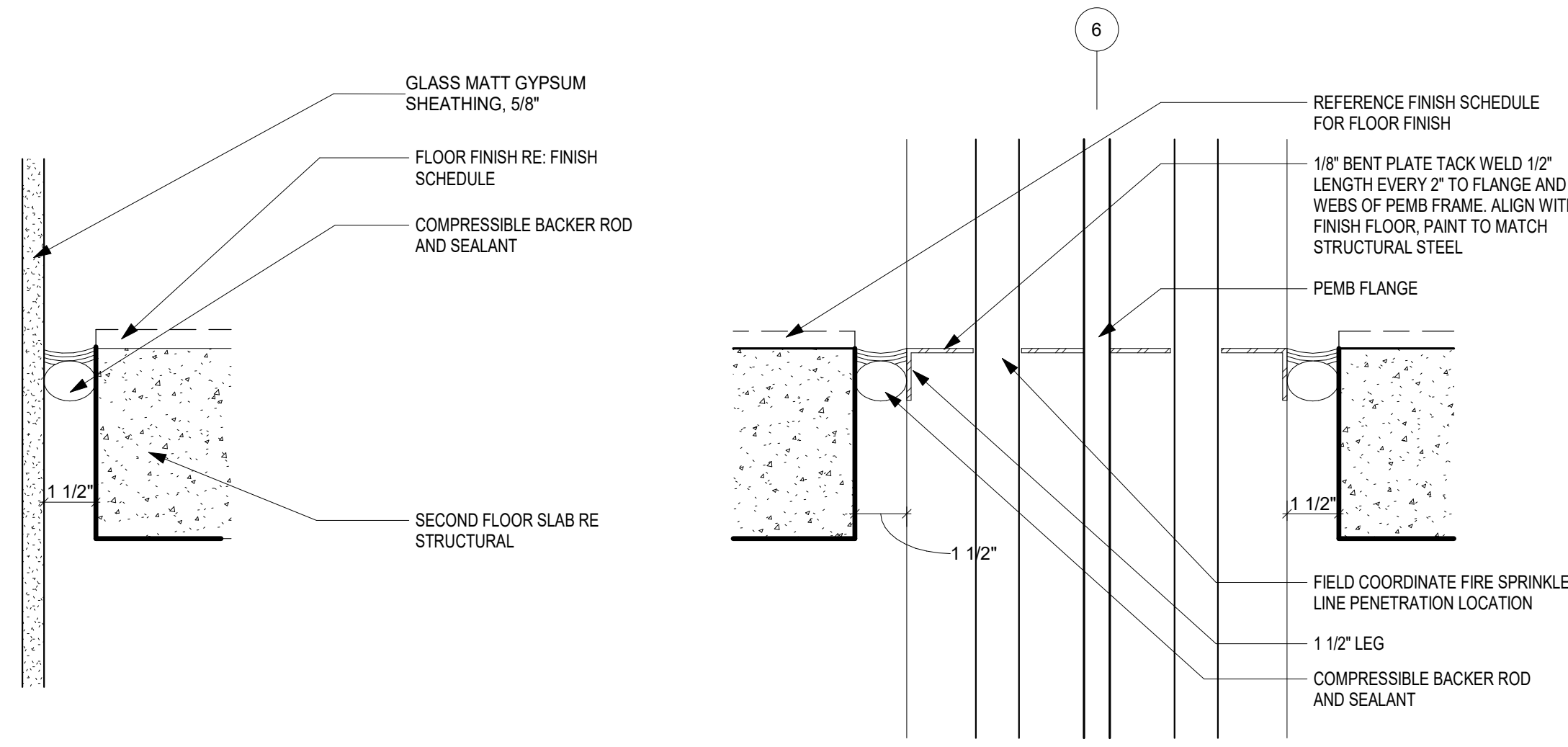
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DESIGNED BY:	DM	
DRAWN BY:	DM	
CHECKED BY:	WAI	
APPROVED BY:	WAI	
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STAIR AND ELEVATOR DETAILS

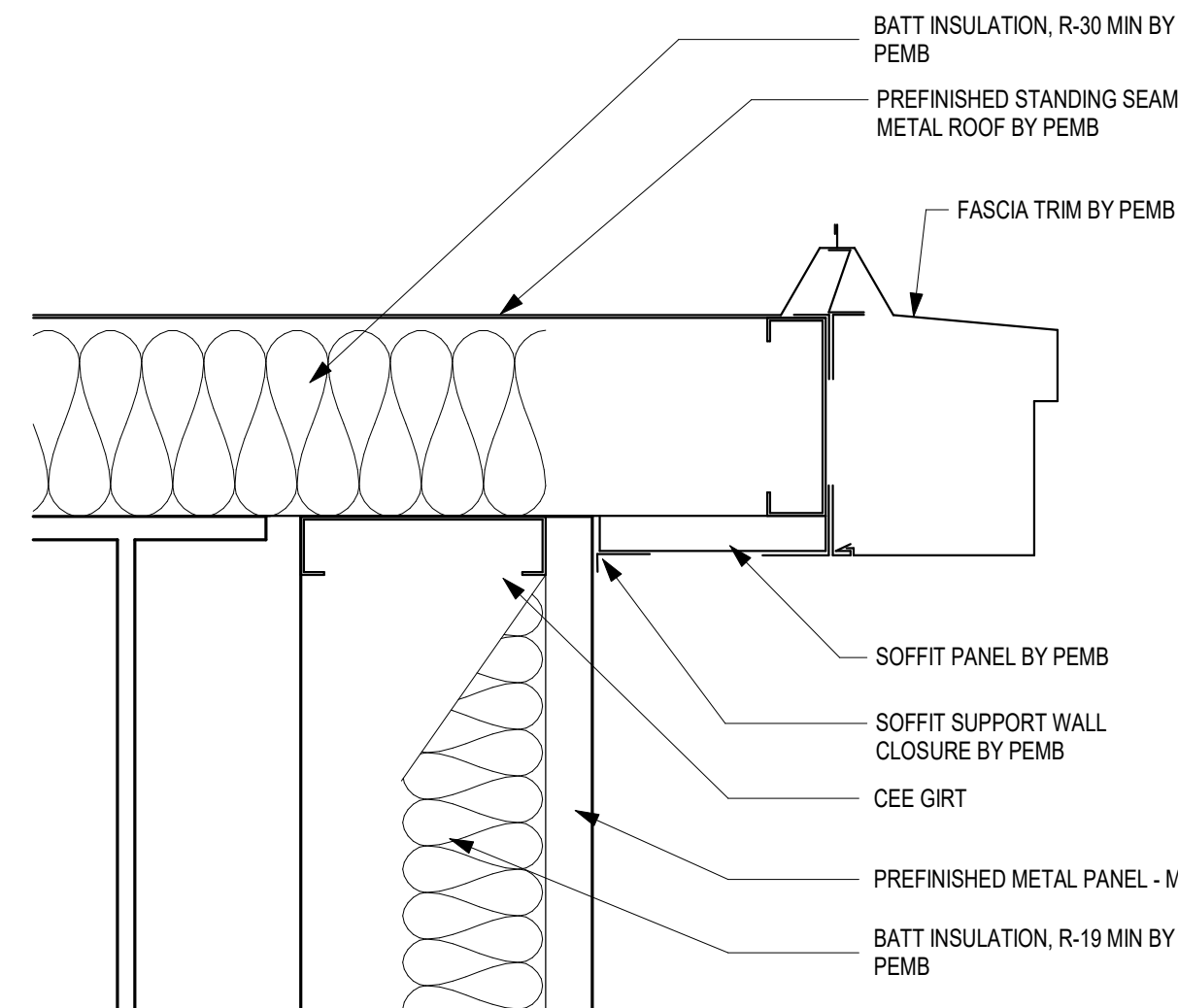
A403

SHEET 071 OF 131

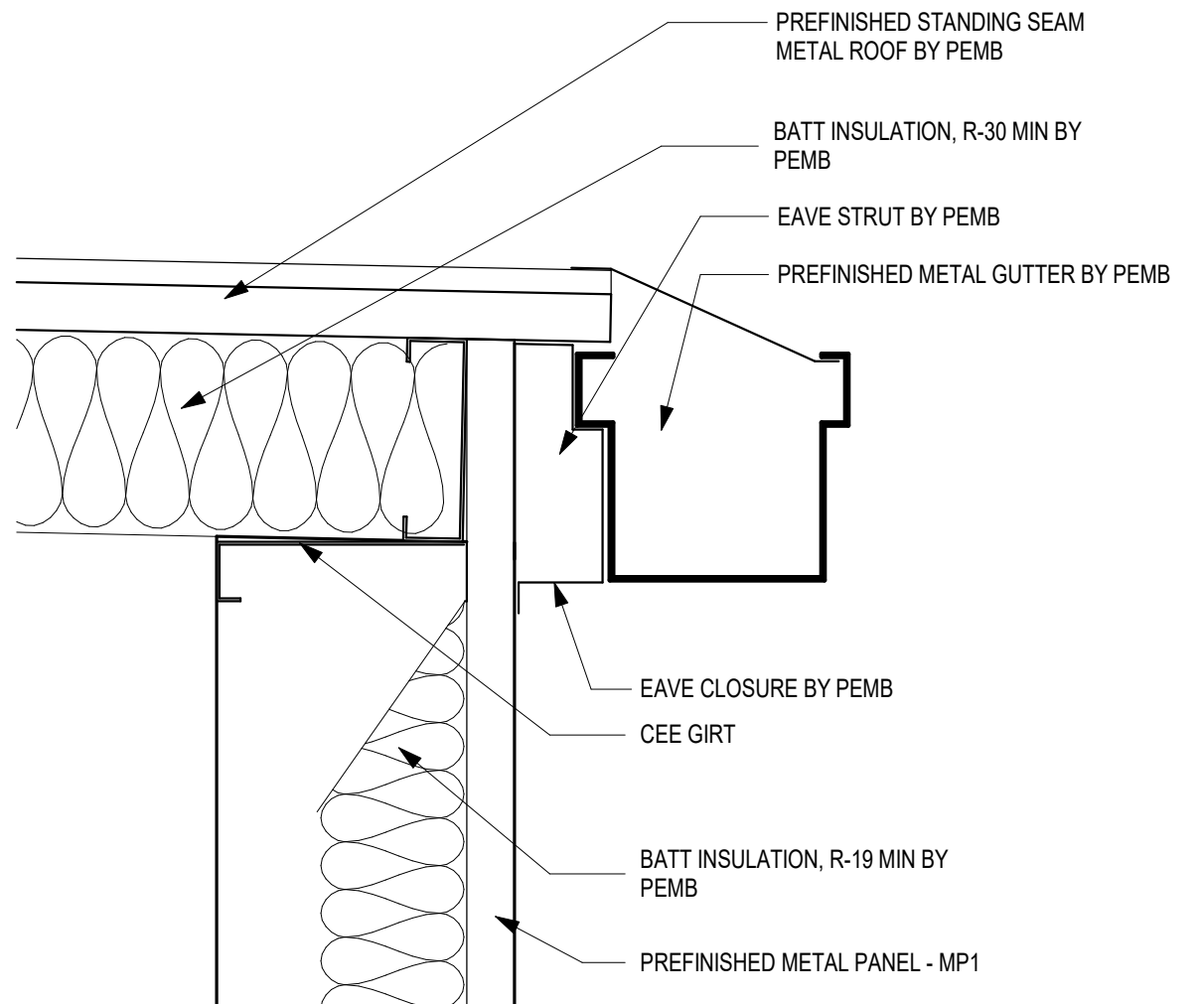
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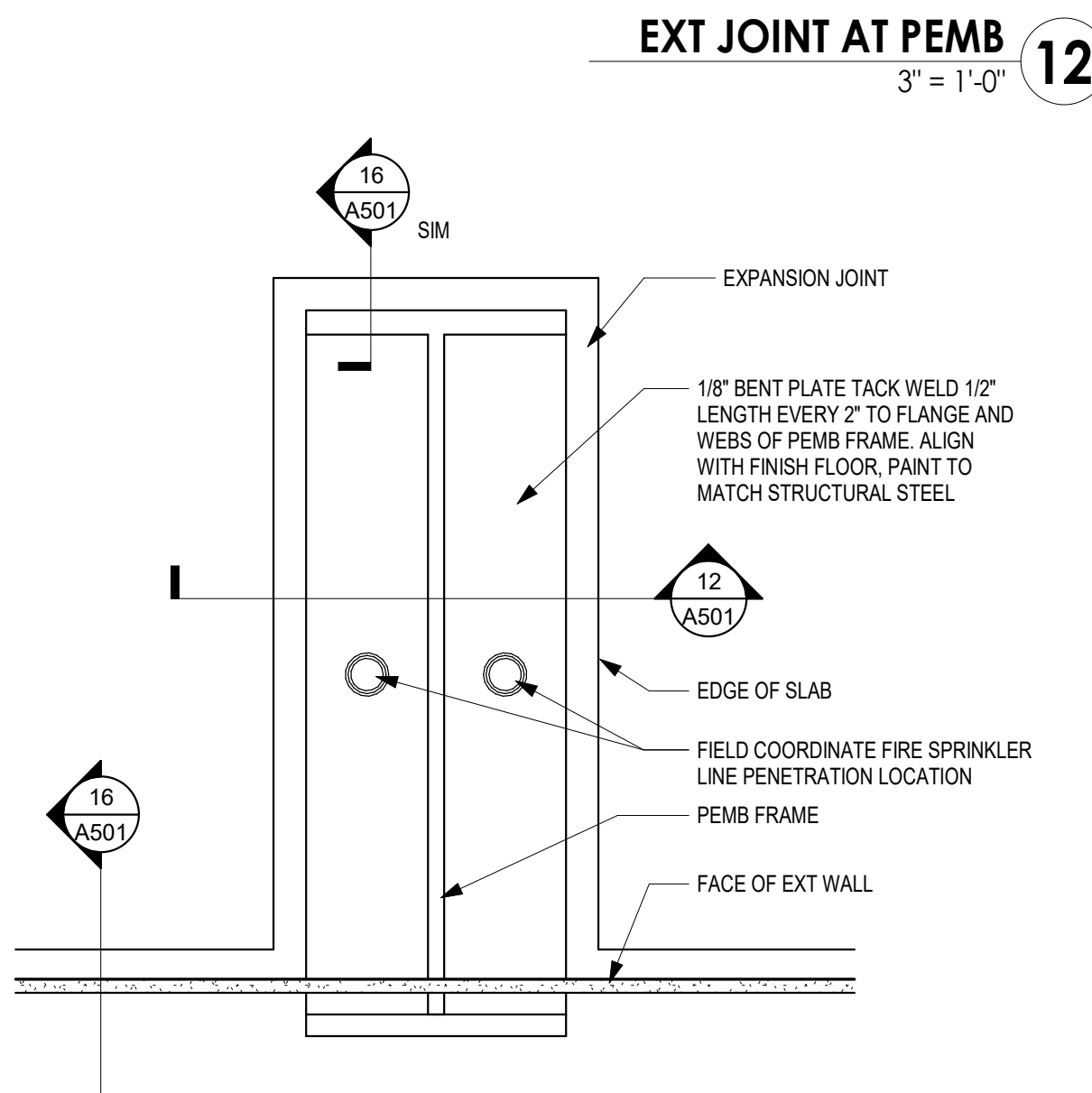
EXP JOINT A EXT WALL 16
3" = 1'-0"



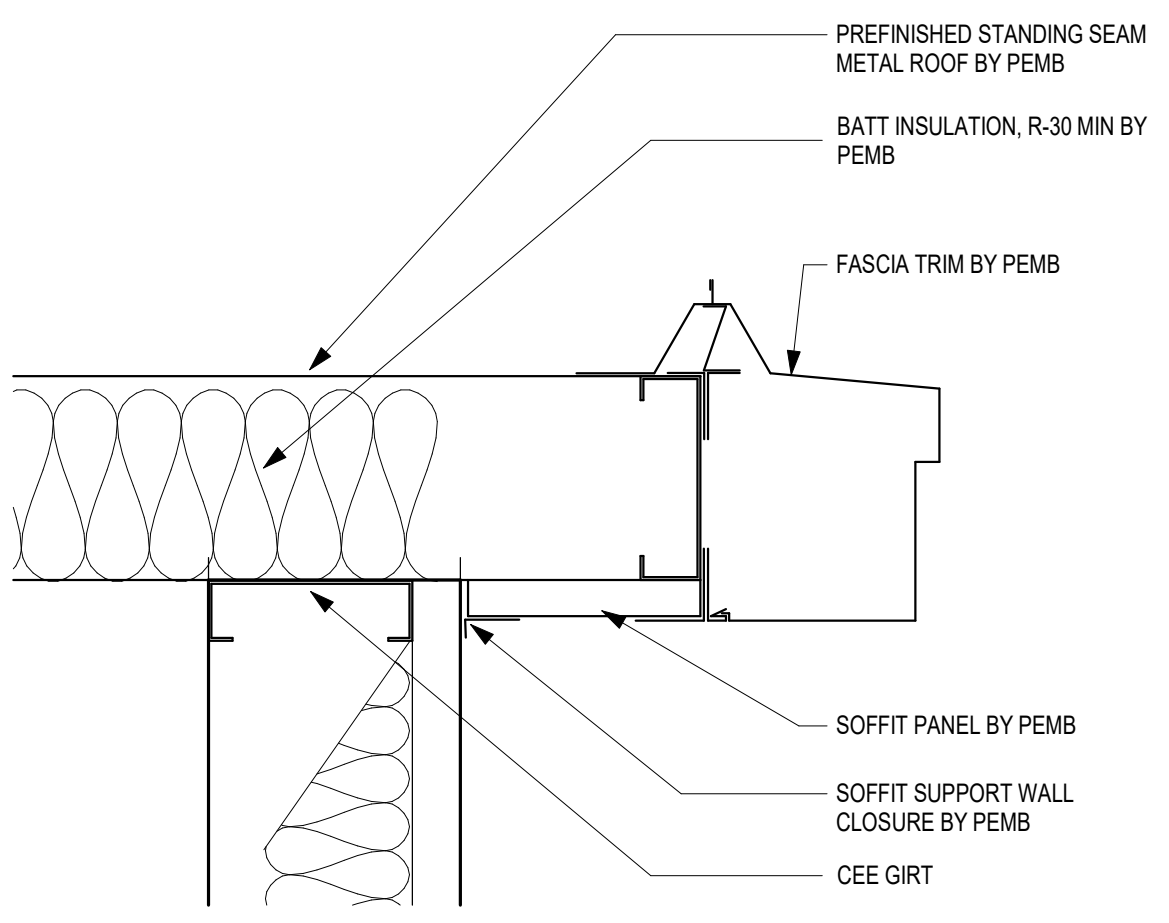
DETAIL AT GABLE 8
REFERENCED FROM 1 / A311 1 1/2" = 1'-0"



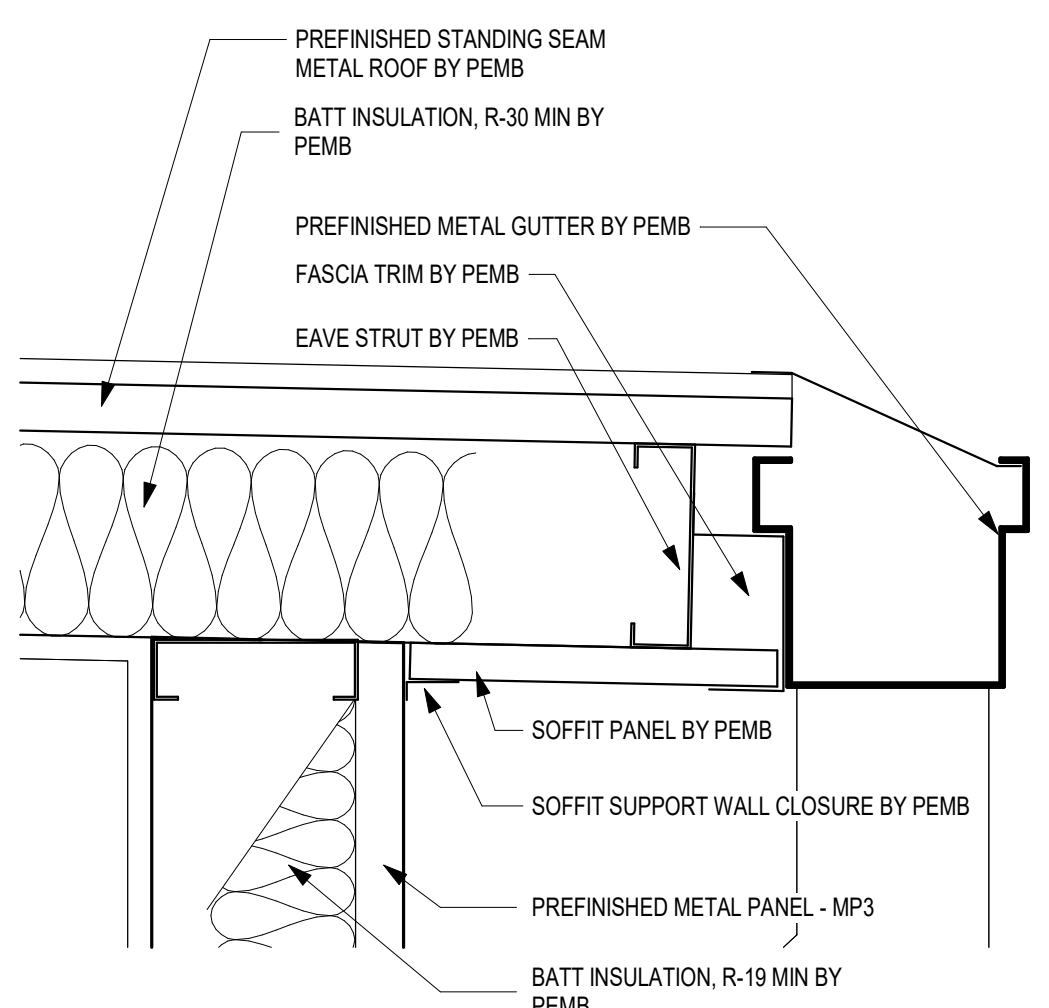
DETAIL AT GUTTER 4
REFERENCED FROM 2 / A310 1 1/2" = 1'-0"



EXT JOINT AT PEMB 12
3" = 1'-0"

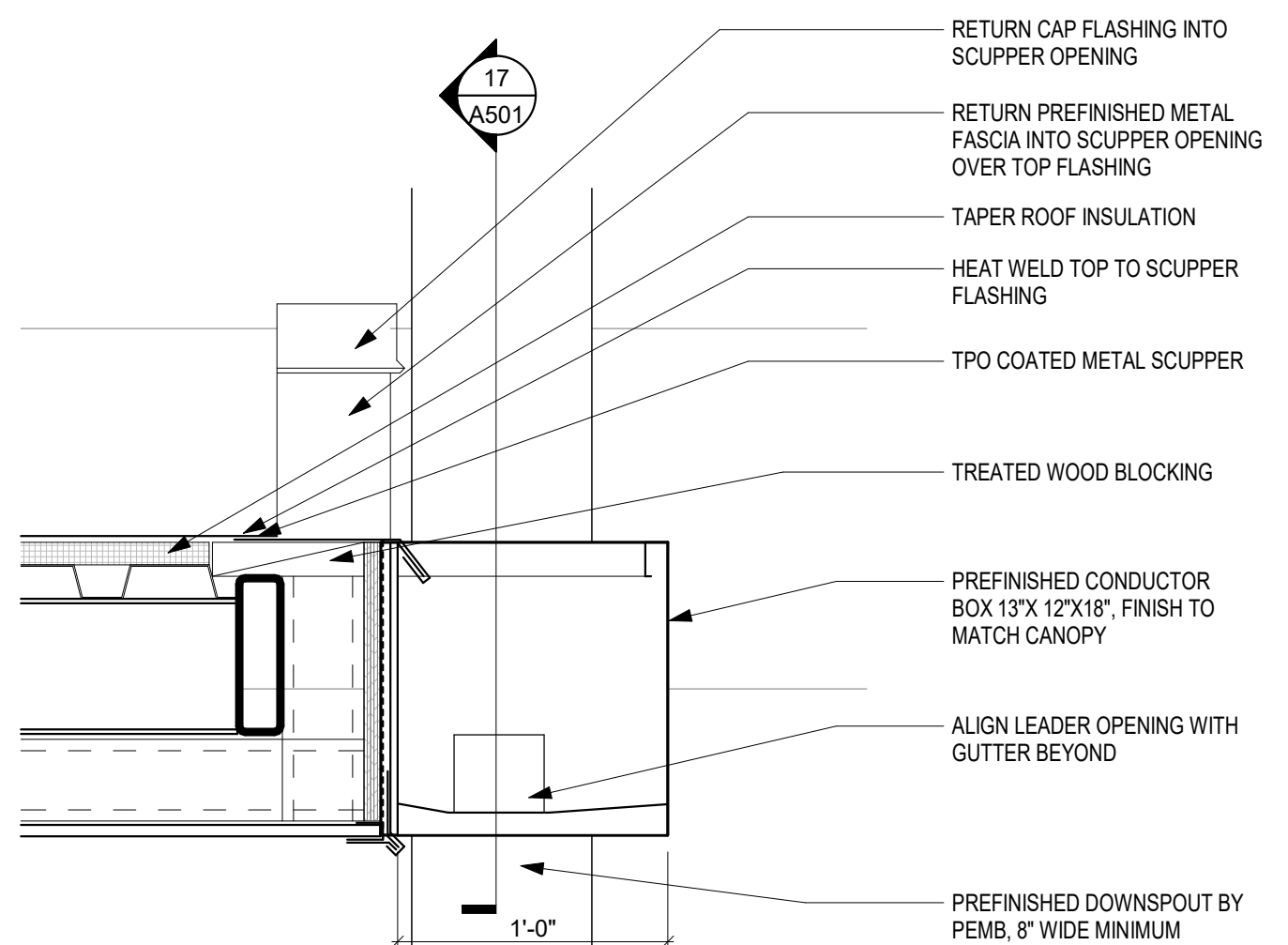


DETAIL AT GABLE 8
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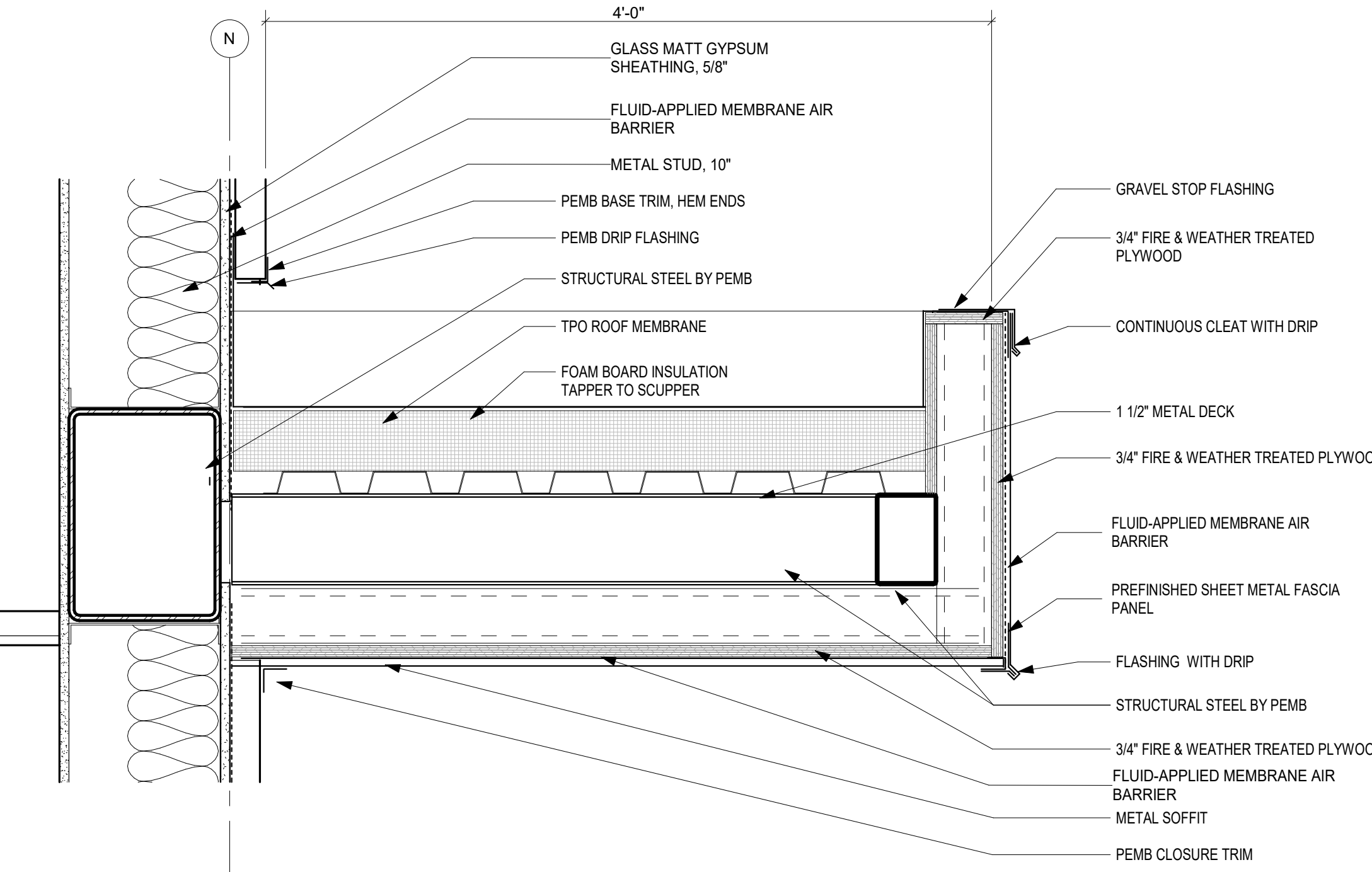


DETAIL AT GUTTER 4
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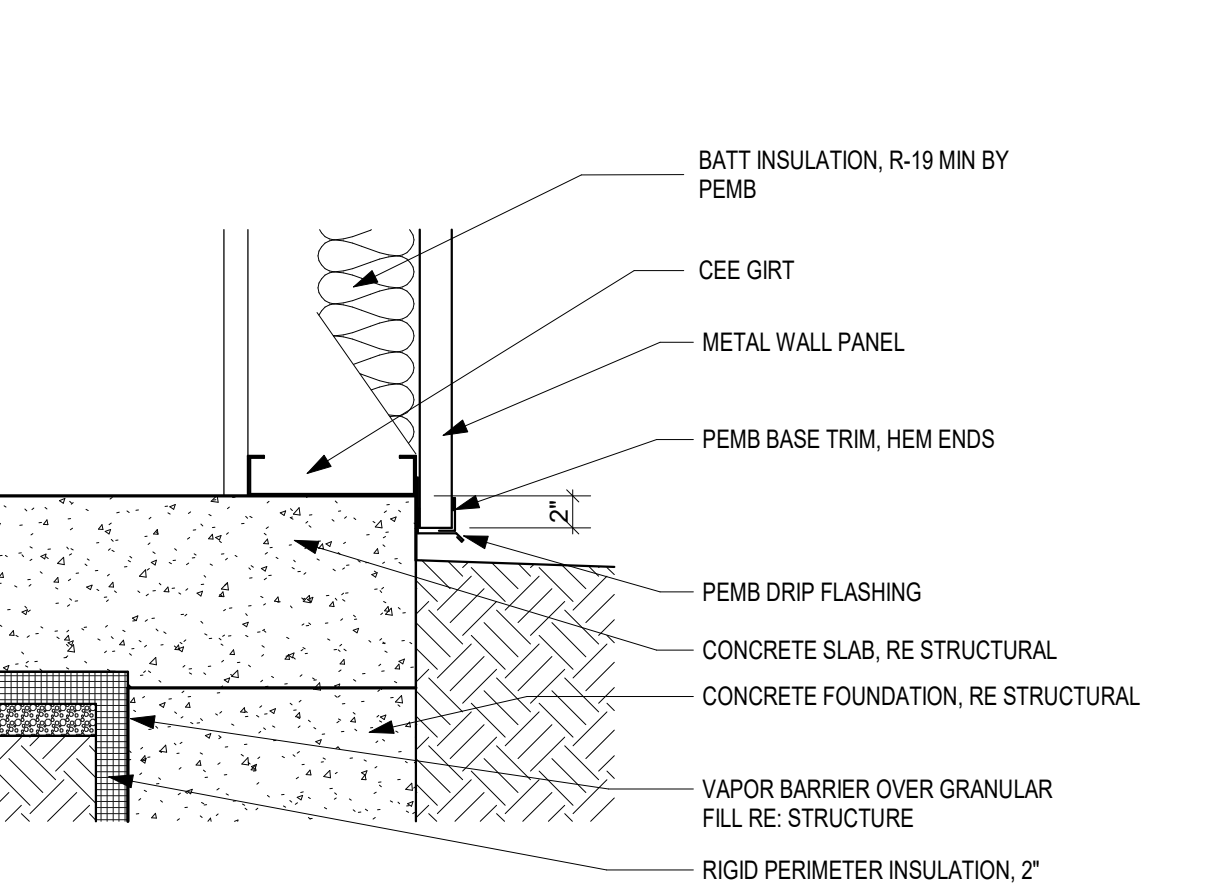
DETAIL - SECOND FLOOR EXP JOINT 11
1 1/2" = 1'-0"



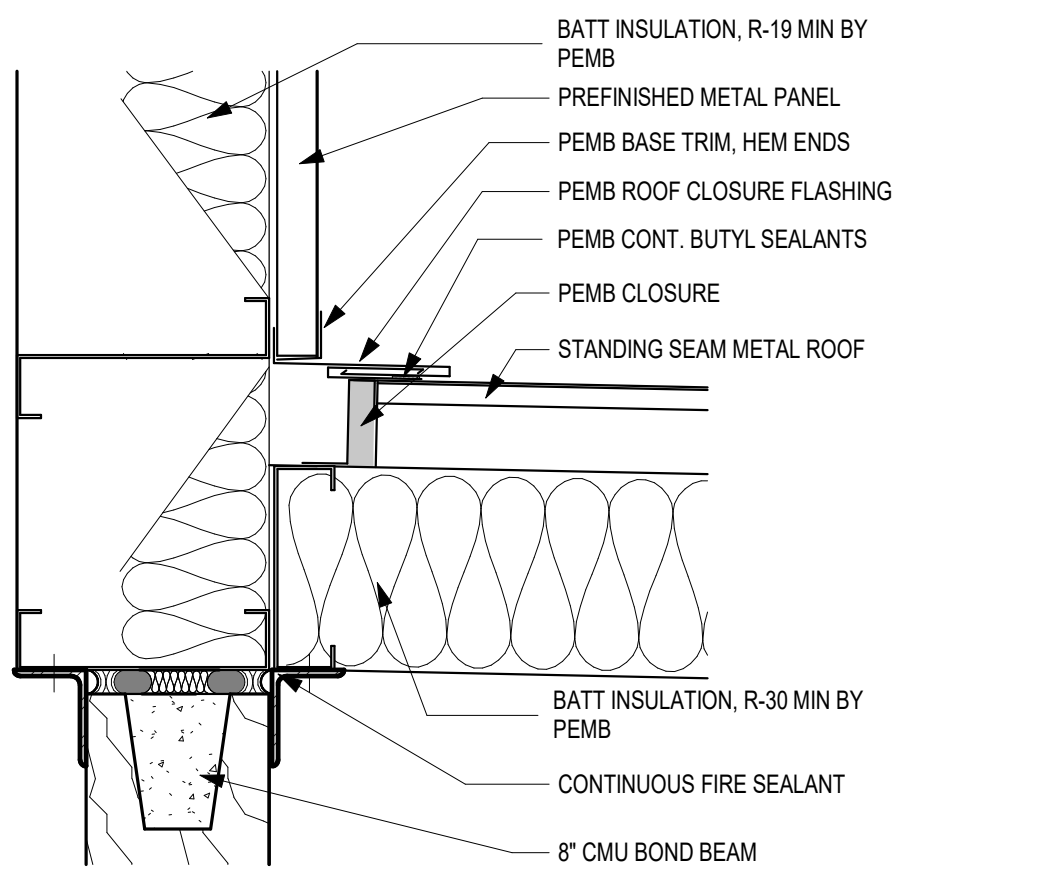
SETAIL - SCUPPER SECTION 18
REFERENCED FROM 3 / A311 1 1/2" = 1'-0"



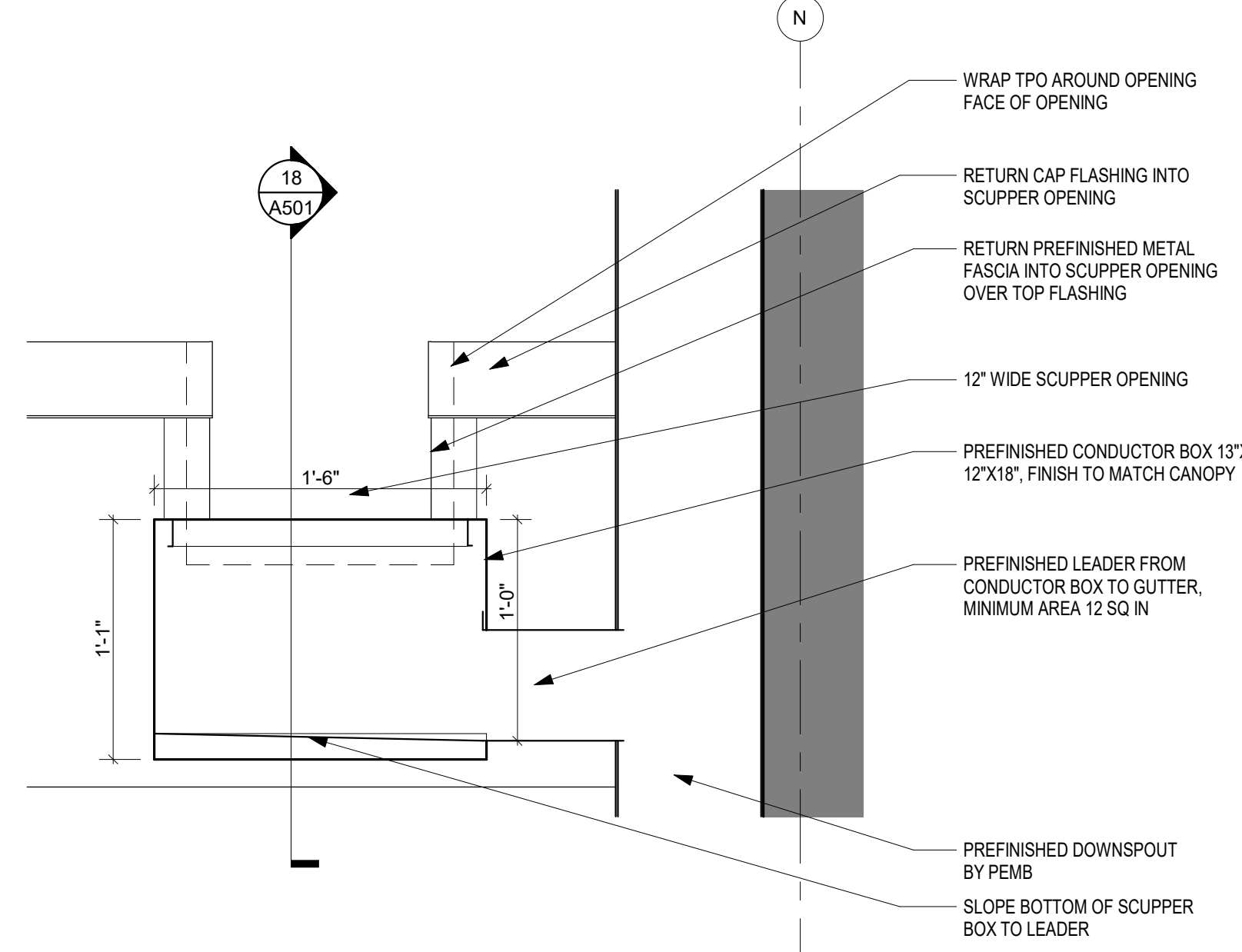
DETAIL AT CANOPY WITOUT WINDOW 10
REFERENCED FROM 1 / A312 1 1/2" = 1'-0"



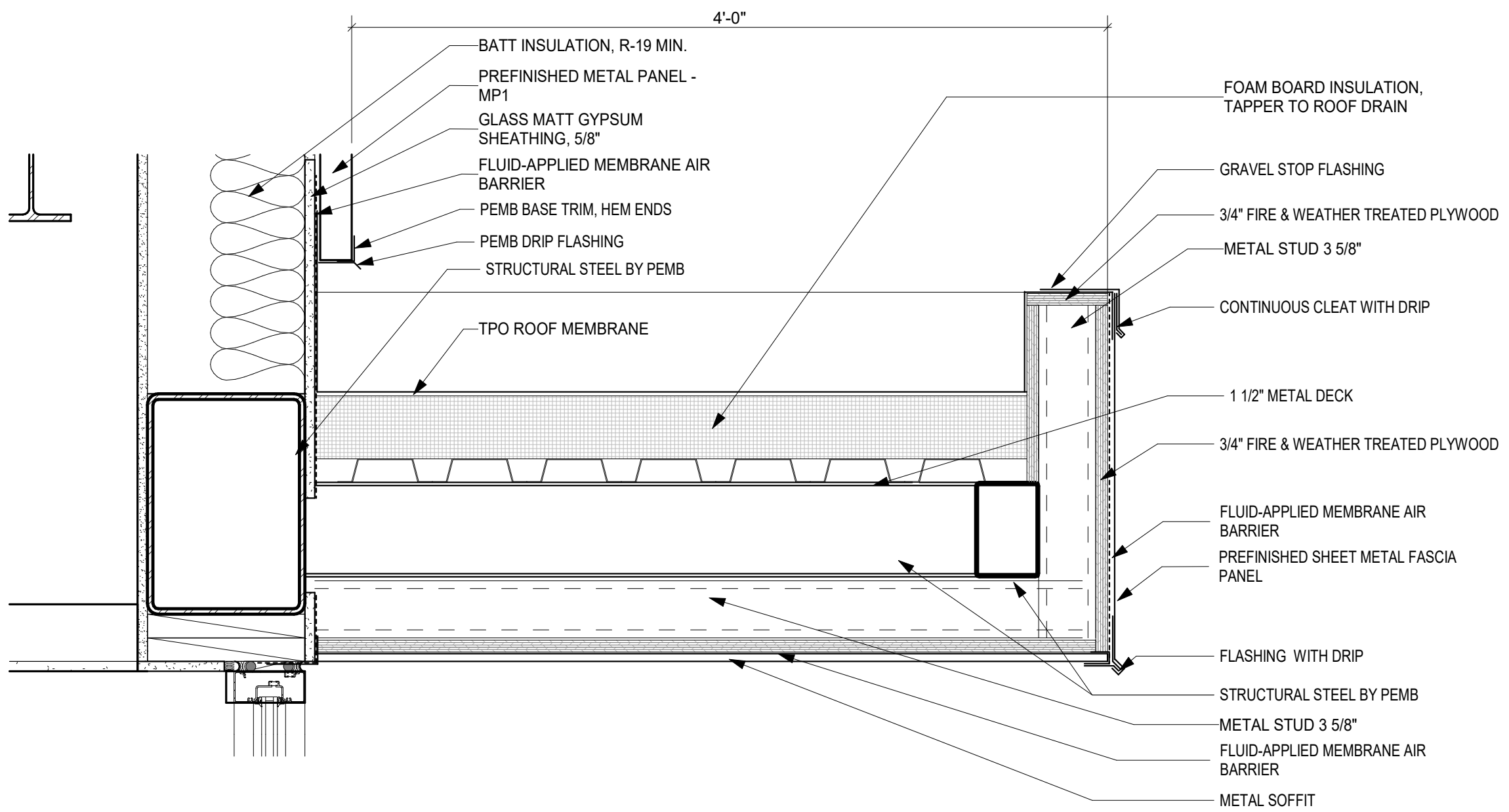
DETAIL AT MTL PANEL BASE 6
REFERENCED FROM 5 / A310 1" = 1'-0"



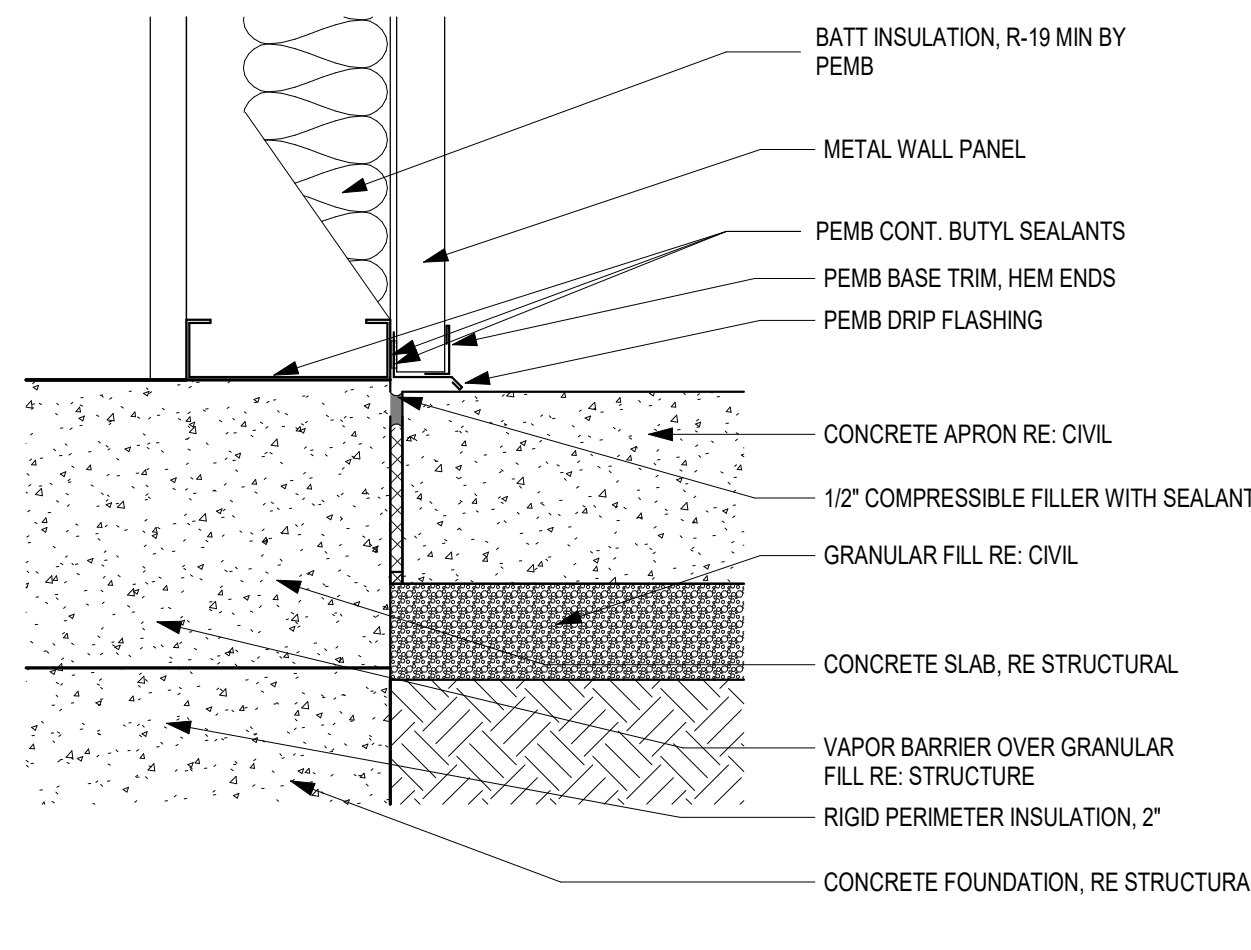
DETAIL WALL TO ROOF 2
REFERENCED FROM 2 / A310 1 1/2" = 1'-0"



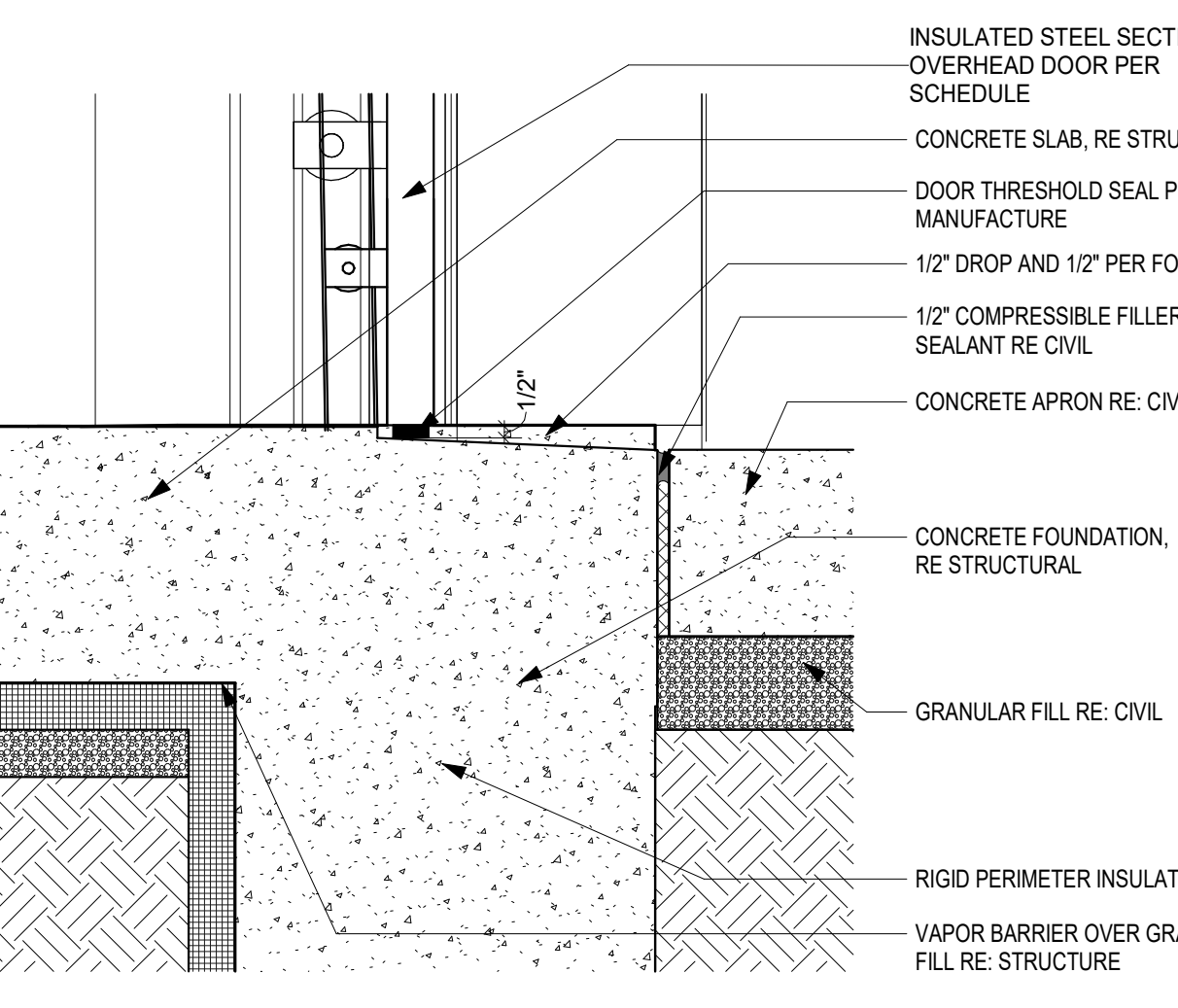
DETAIL - COLLECTOR BOX SECTION 17
REFERENCED FROM 18 / A501 1 1/2" = 1'-0"



DETAIL AT CANOPY 9
REFERENCED FROM 2 / A311 1 1/2" = 1'-0"



DETAIL AT MTL PANEL BASE 5
REFERENCED FROM 3 / A310 1 1/2" = 1'-0"



DETAIL O.H. DOOR SILL 1
REFERENCED FROM 1 / A310 1 1/2" = 1'-0"



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

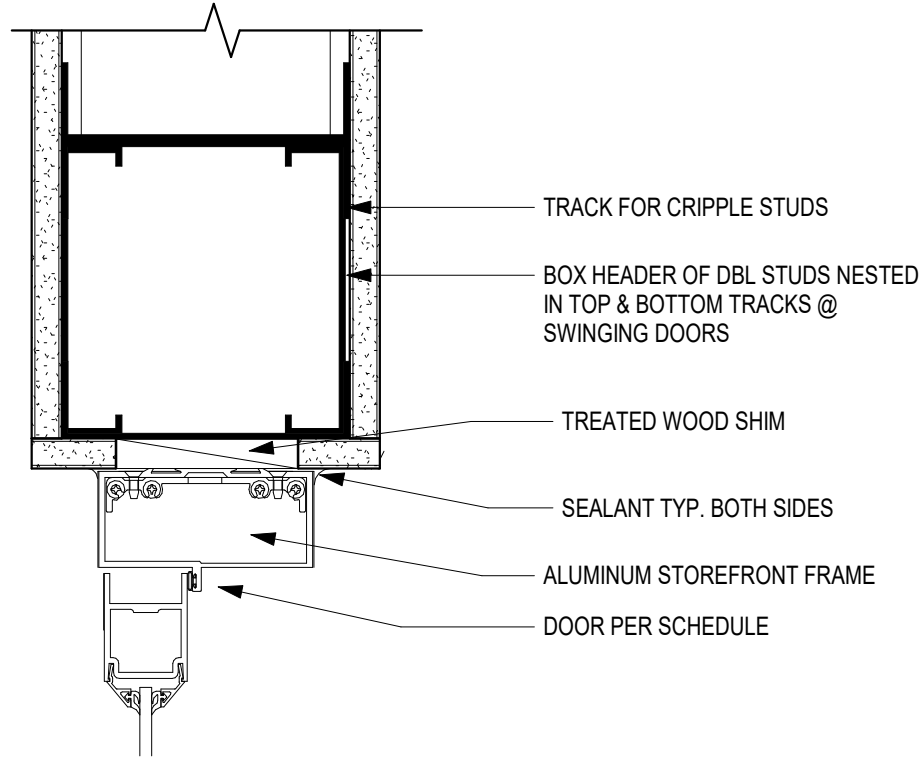


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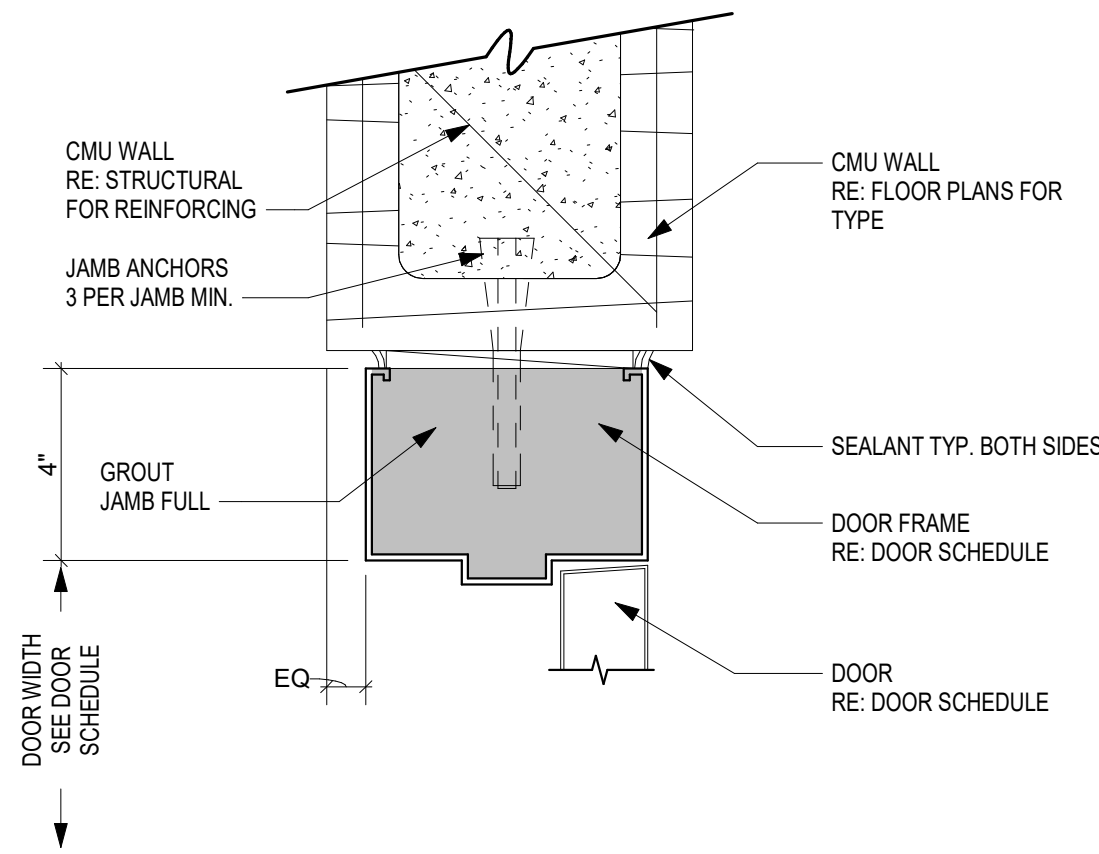
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DESIGNED BY:			DM	
DRAWN BY:			KP	
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SHEET TITLE				DETAILS
				A501
				SHEET 072 OF 131

DOOR SCHEDULE														
DOORS						FRAMES						DETAILS		
door #	TYPE	MATERIAL	FINISH	width	height	thickness	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	FIRE RATING	HARDWARE GROUP
100-A	A	ALUM	ANOD.	8'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A604	6A604	5A604	-	17
100-B	A	ALUM	ANOD.	8'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A604	6A604	5A604	-	17
104-B	E	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	4	HM	PT	7A601	6A601	-	05	4, 5
105-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	3A601	2A601	-	15	-
106-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	3A601	2A601	-	15	-
110-A	A	ALUM	ANOD.	8'-0"	8'-1"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A604	6A604	5A604	-	17
110-B	A	ALUM	ANOD.	8'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A604	6A604	5A604	-	17
111-A	D	HM	PT	4'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	45 MIN	07 1
113-A	C	WD	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13 4
114-A	C	WD	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13 4
114-B	B	ALUM	ANOD.	3'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A604	6A604	5A604	-	02 *
115-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	06
116-A	C	WD	WD-1	3'-0"	7'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	08
117-A	D	HM	PT	4'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	45 MIN	07 1
118-A	H	HM	PT	4'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	90 MIN	04 1
119-A	C	WD	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	06 4
121-A	B	ALUM	ANOD.	3'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	7A603	6A604	5A604	-	02 5
121-B	D	HM	PT	4'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	45 MIN	12 1
121-C	F	STL	PREFINISHED	10'-0"	10'-0"	0'-2"	-	-	-	4A602	3A602	-	45 MIN	18 2
123-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	14 4
125-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13 4
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126-G	D	HM	PT	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	15A604	14604	-	-	03 1, 3
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127-B	G	STL	PREFINISHED	14'-0"	10'-0"	0'-2"	-	-	-	2A602	1A602	1A501	-	18 2
127-C	G	STL	PREFINISHED	14'-0"	10'-0"	0'-2"	-	-	-	2A602	1A602	1A501	-	18 2
127-D	G	STL	PREFINISHED	14'-0"	10'-0"	0'-2"	-	-	-	2A602	1A602	1A501	-	18 2
127-E	F	STL	PREFINISHED	14'-0"	14'-0"	0'-2"	-	-	-	2A602	1A602	-	-	18 2
127-F	D	HM	PT	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	11A601	10A601	-	90 MIN	11
204-A	E	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	3	HM	PT	7A601	6A601	-	-	05 4, 5
205-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	12A601	12A601	-	-	13
208-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	14
209-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	06
210-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	14
211-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13
212-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13
215-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	09
216-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	STOREFRONT	ALUM	ANOD.	12A601	12A601	-	-	11
217-A	C	WD	WD-1	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	8A601	4A601	-	-	16
219-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	13 4
220-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	2	HM	PT	7A601	6A601	-	-	10 4
221-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	08 4
222-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	06 4
223-A	C	HM	WOOD GRAIN	3'-0"	8'-0"	0'-1 3/4"	1	HM	PT	7A601	6A601	-	-	06 4

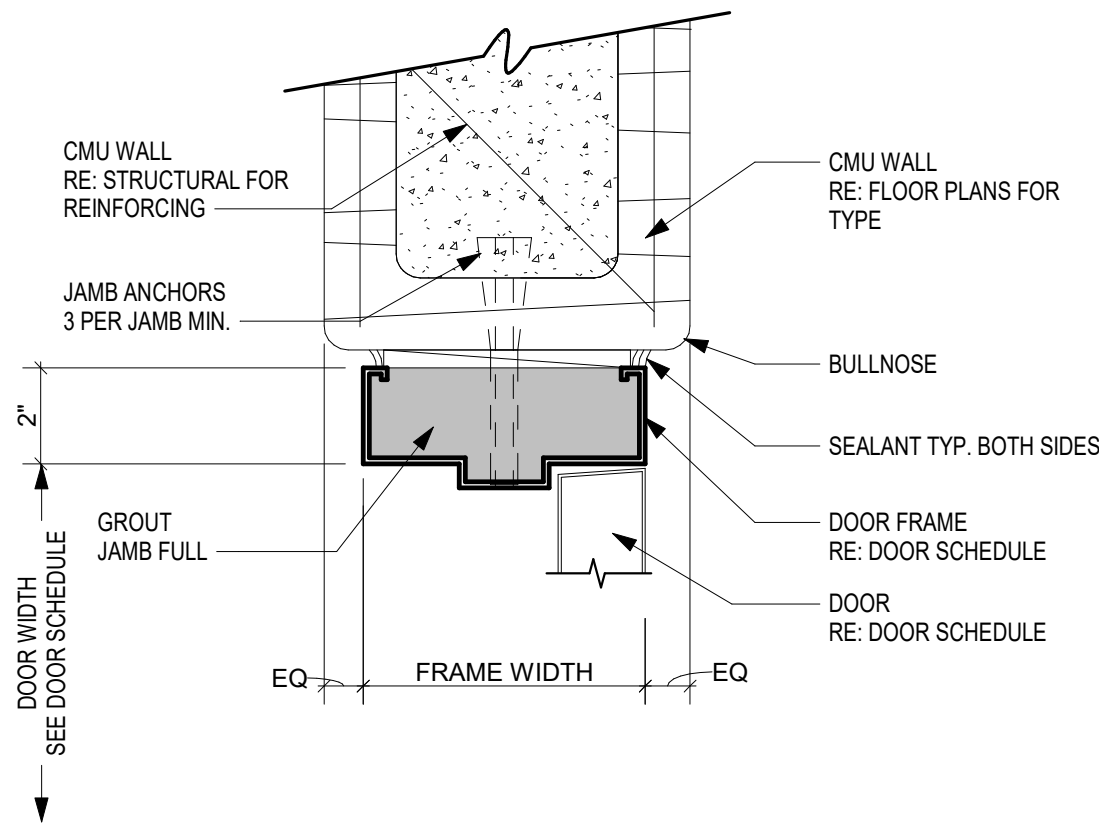
GENERAL NOTES:
1. REFER TO SPECIFICATIONS FOR HARDWARE SETS LISTED IN SPECIFICATIONS 08070
NOTES:
1. INSULATED OVERHEAD DOOR
2. INSULATED SECTIONAL DOOR
3. COORDINATE EGRESS DOOR WITH HANGAR DOOR PROVIDER
4. STEEL-CRAFT WOOD GRAIN DOORS WITH FINISH MATCHING WD-1
5. GLAZING TO BE SG4 SCHOOL GUARD GLASS AT DOORS AND SIDELIGHTS



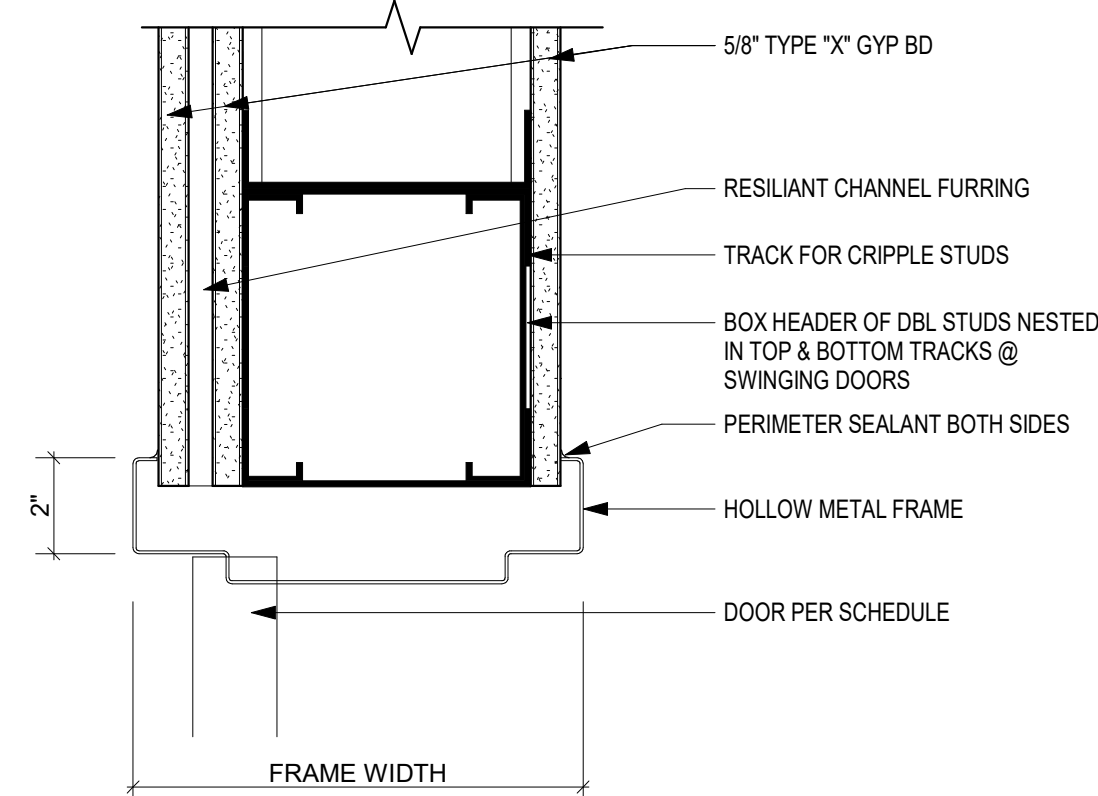
DOOR JAMB/HEAD AT GYP BD INT STOREFRONT 12
3" = 1'-0"



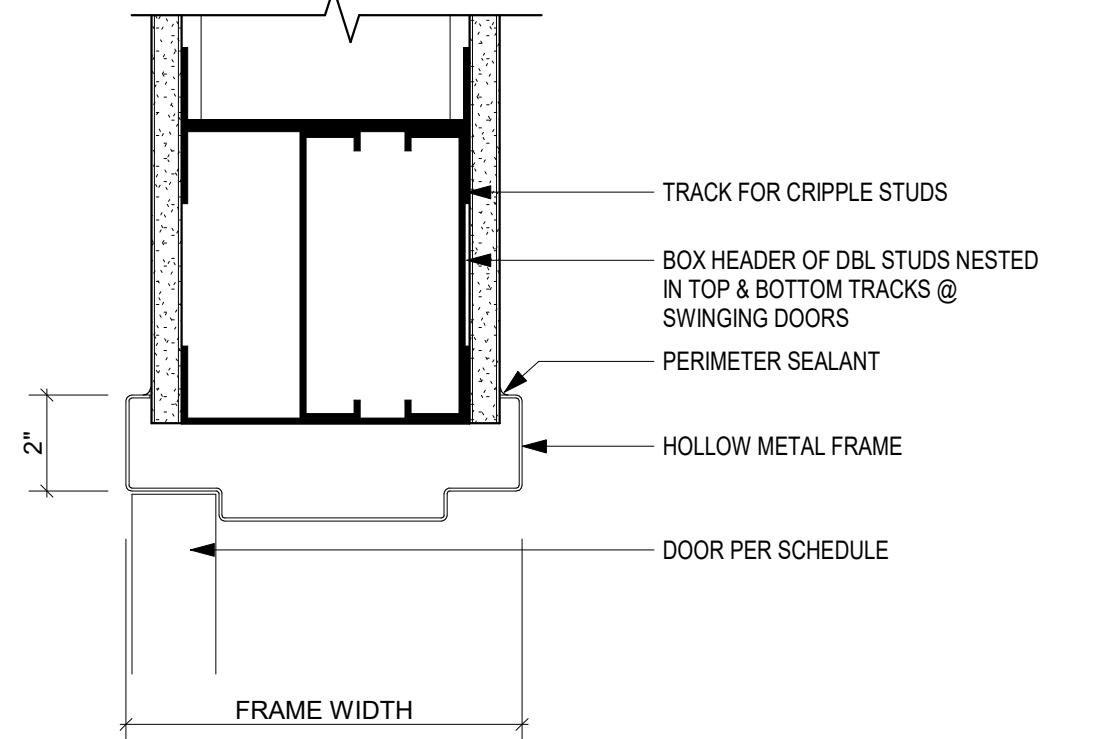
DOOR HEAD AT CMU 11
3" = 1'-0"



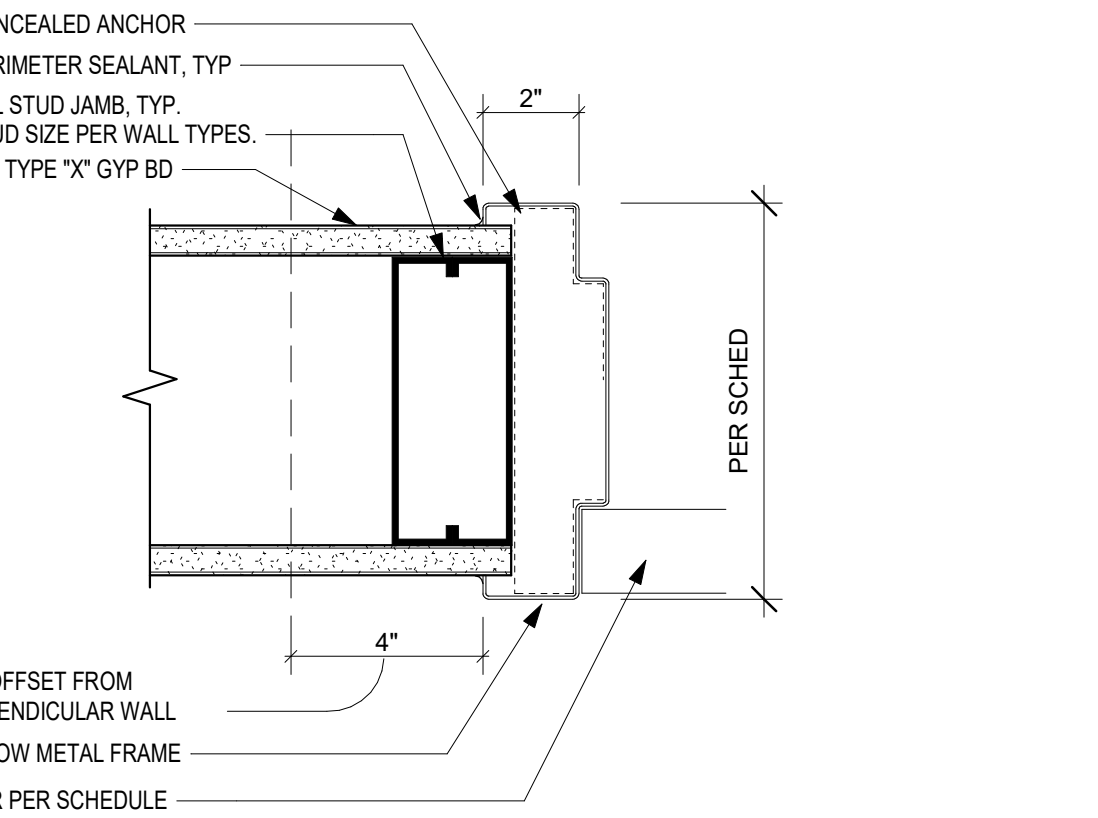
DOOR JAMB AT CMU 10
3" = 1'-0"



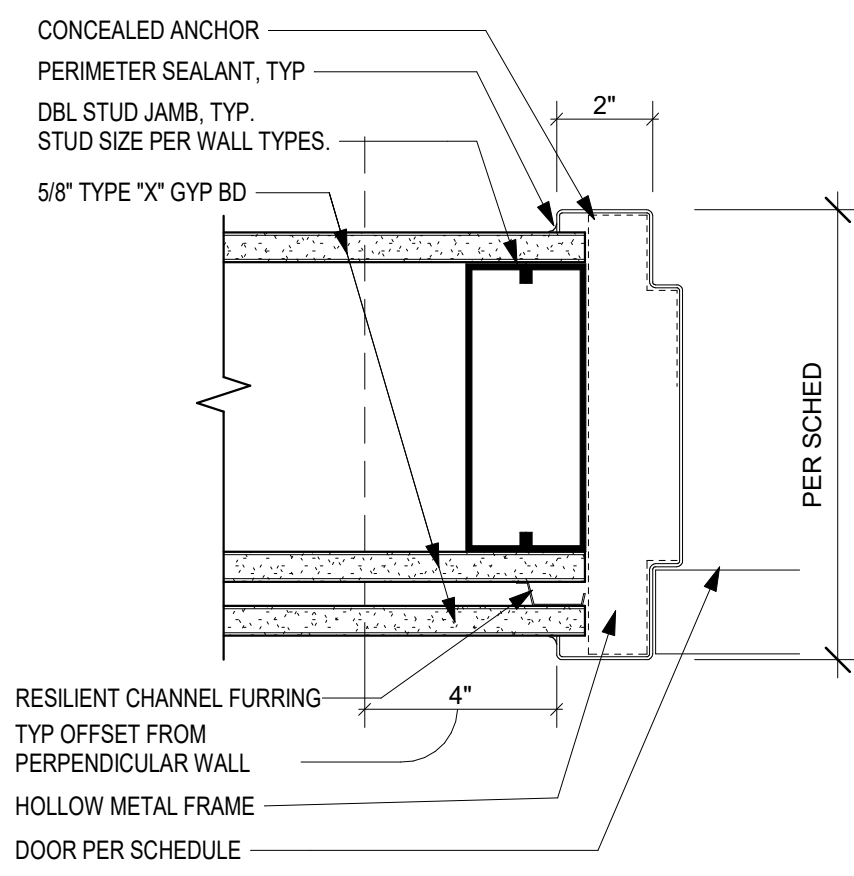
DOOR HEAD AT PILOT QUIET RM 8
3" = 1'-0"



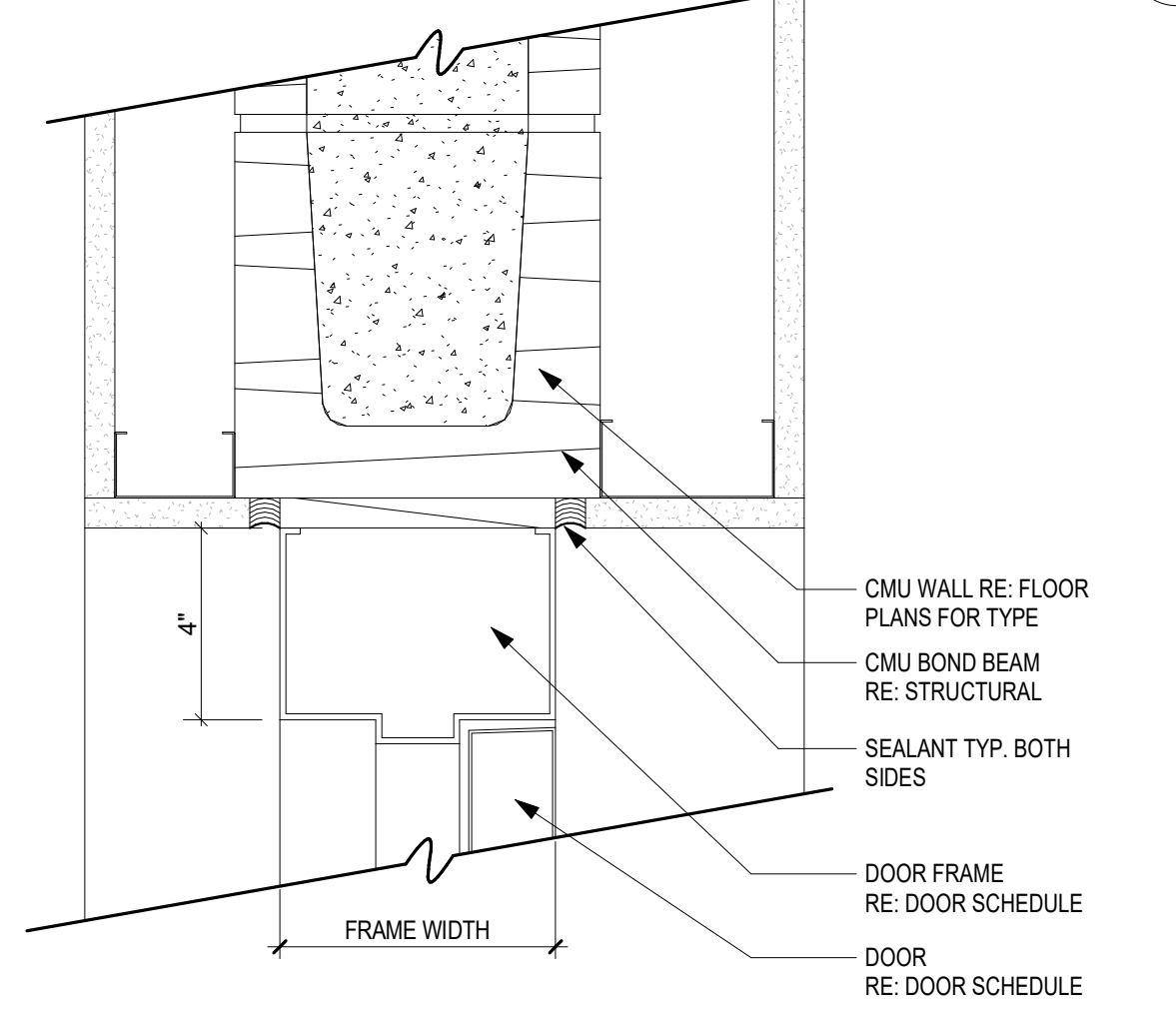
DOOR HEAD AT GYP BD 7
3" = 1'-0"



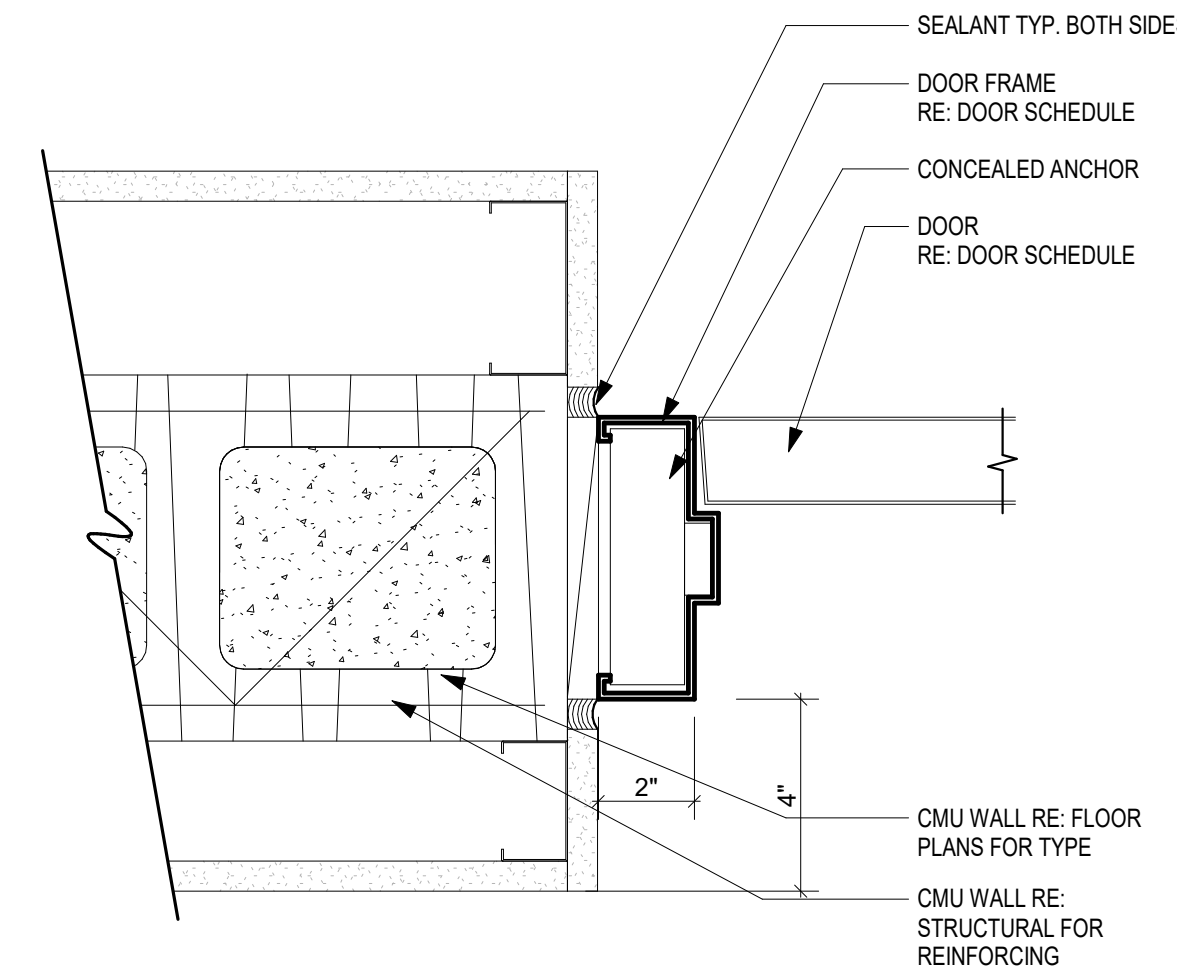
DOOR JAMB AT GYP BD 6
3" = 1'-0"



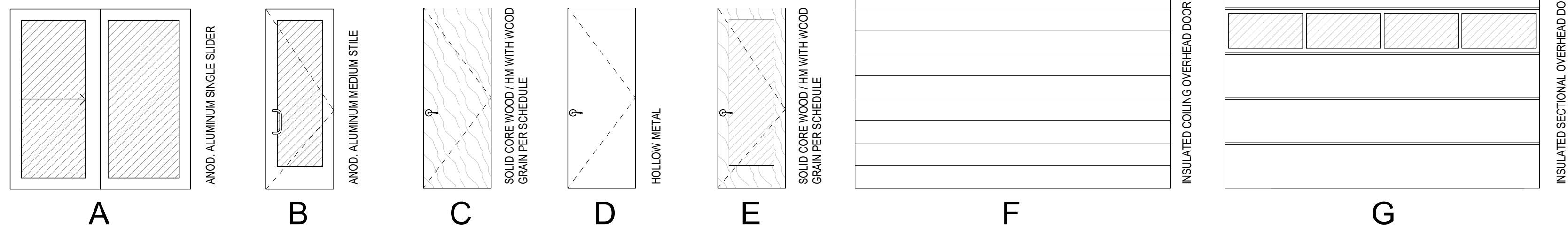
DOOR JAMB AT PILOT QUIET RM 4
3" = 1'-0"



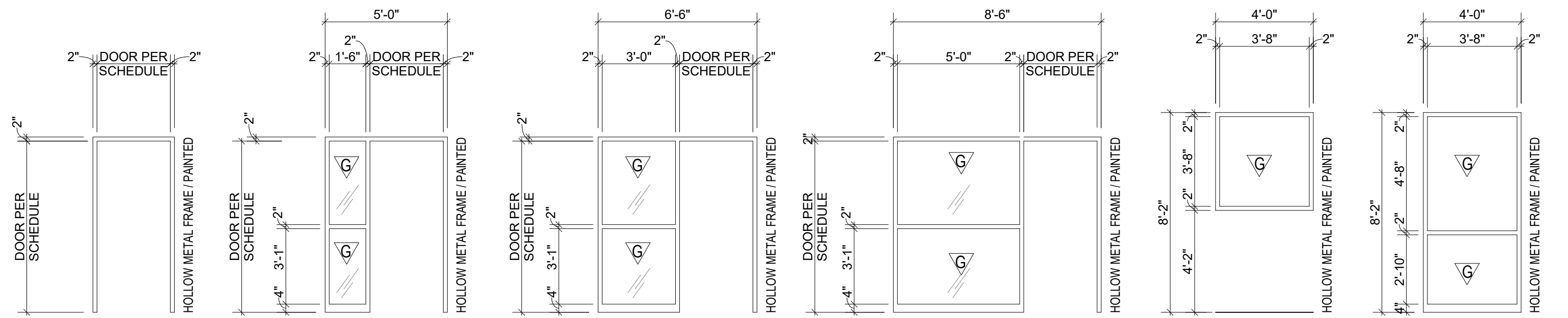
DOOR HEAD AT CMU 3
3" = 1'-0"



DOOR JAMB AT CMU 2
3" = 1'-0"



DOOR TYPES



FRAME TYPES

1/2" GLAZING IN PAINTED HOLLOW METAL FRAMES. ALL INTERIOR GLAZING IS TO BE TEMPERED. GLAZING TO BE SG4 SCHOOL GUARD GLASS WHERE NOTED. GLAZING TO BE FIRE RATED IN RATED PARTITIONS PER PLANS



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

11/10 REV:1
MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: DM
DRAWN BY: KP
CHECKED BY: WAI
APPROVED BY: WAI
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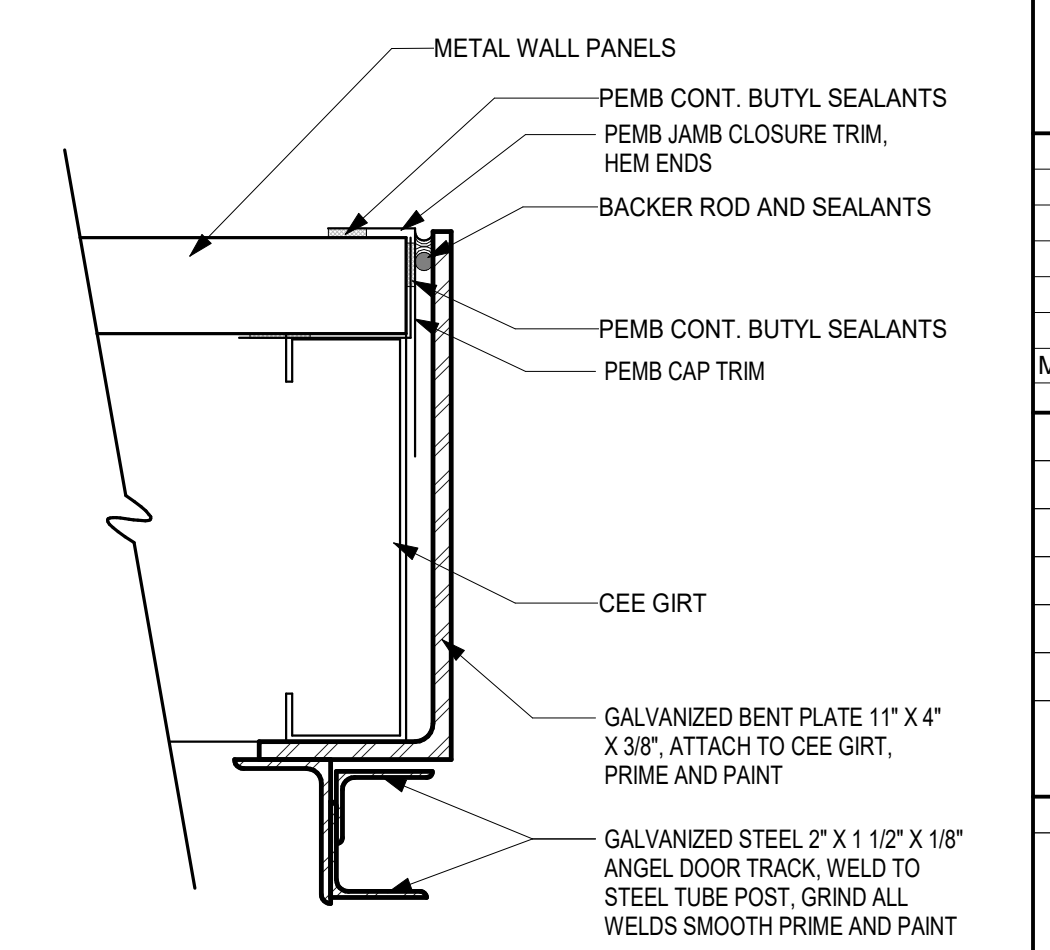
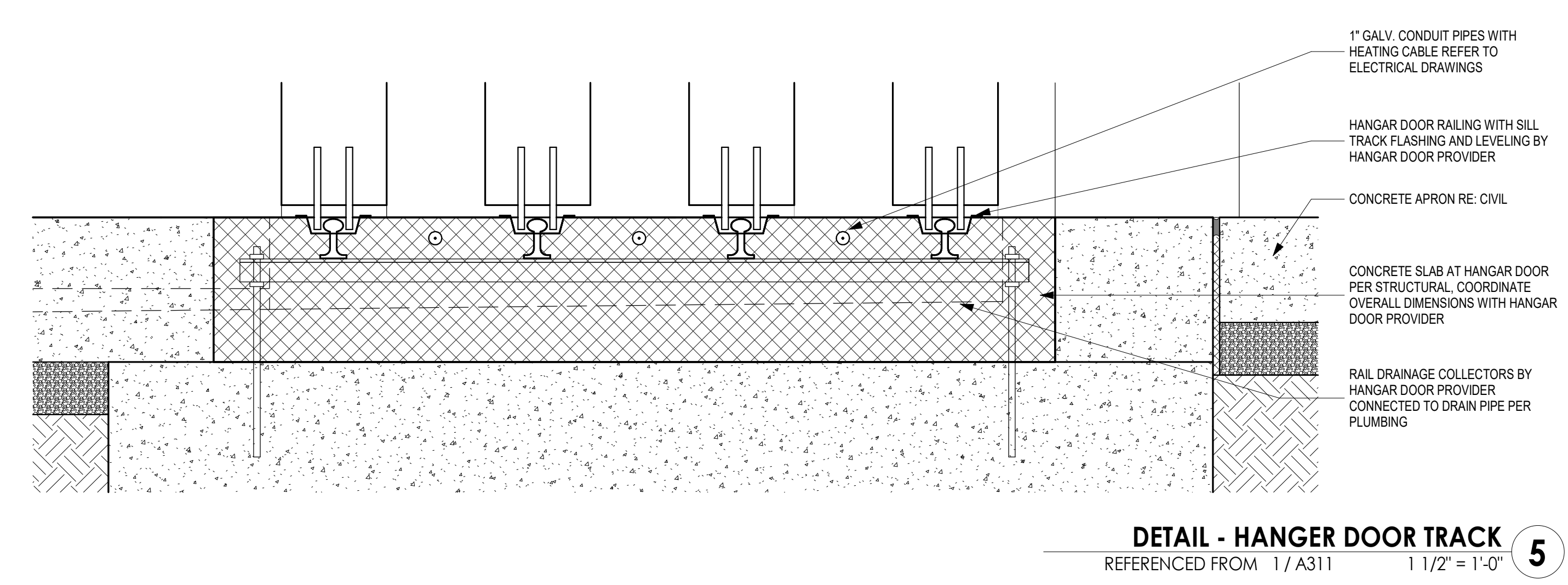
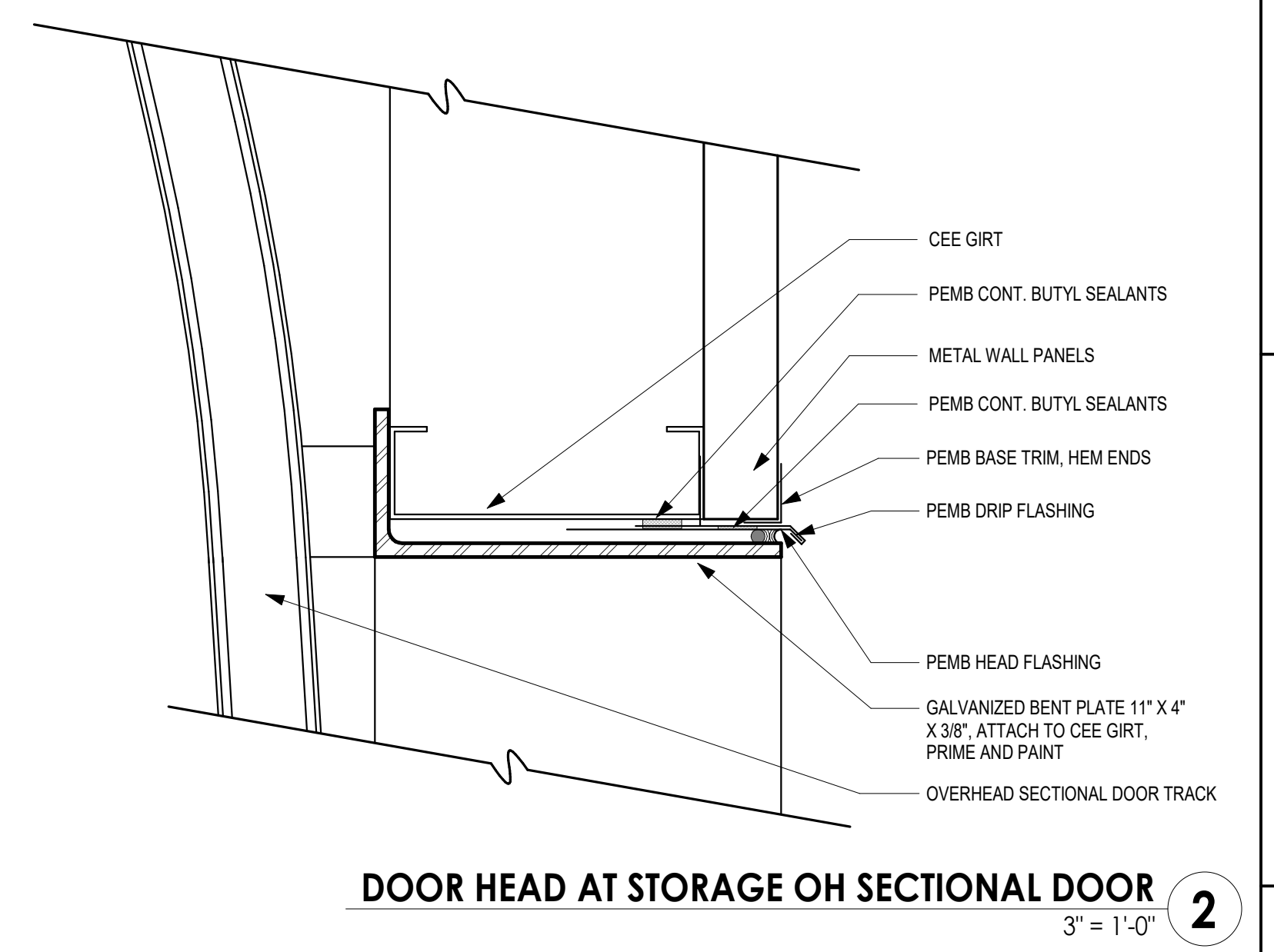
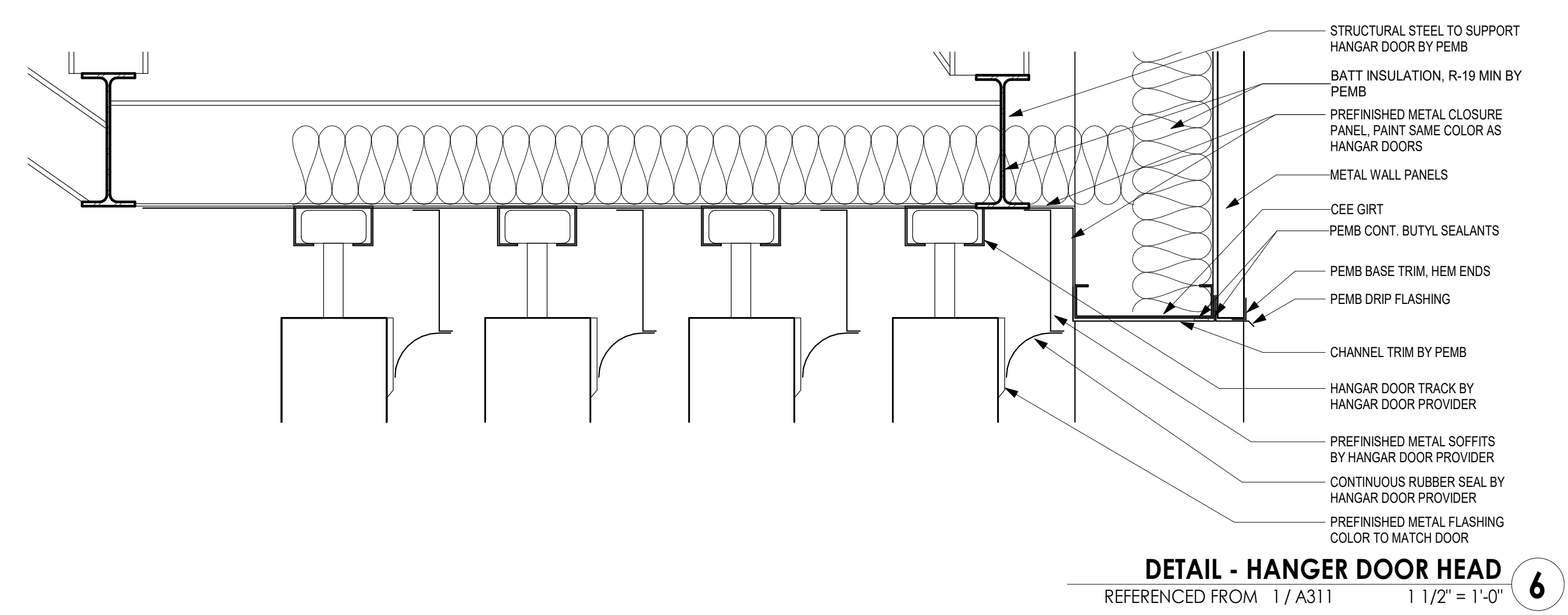
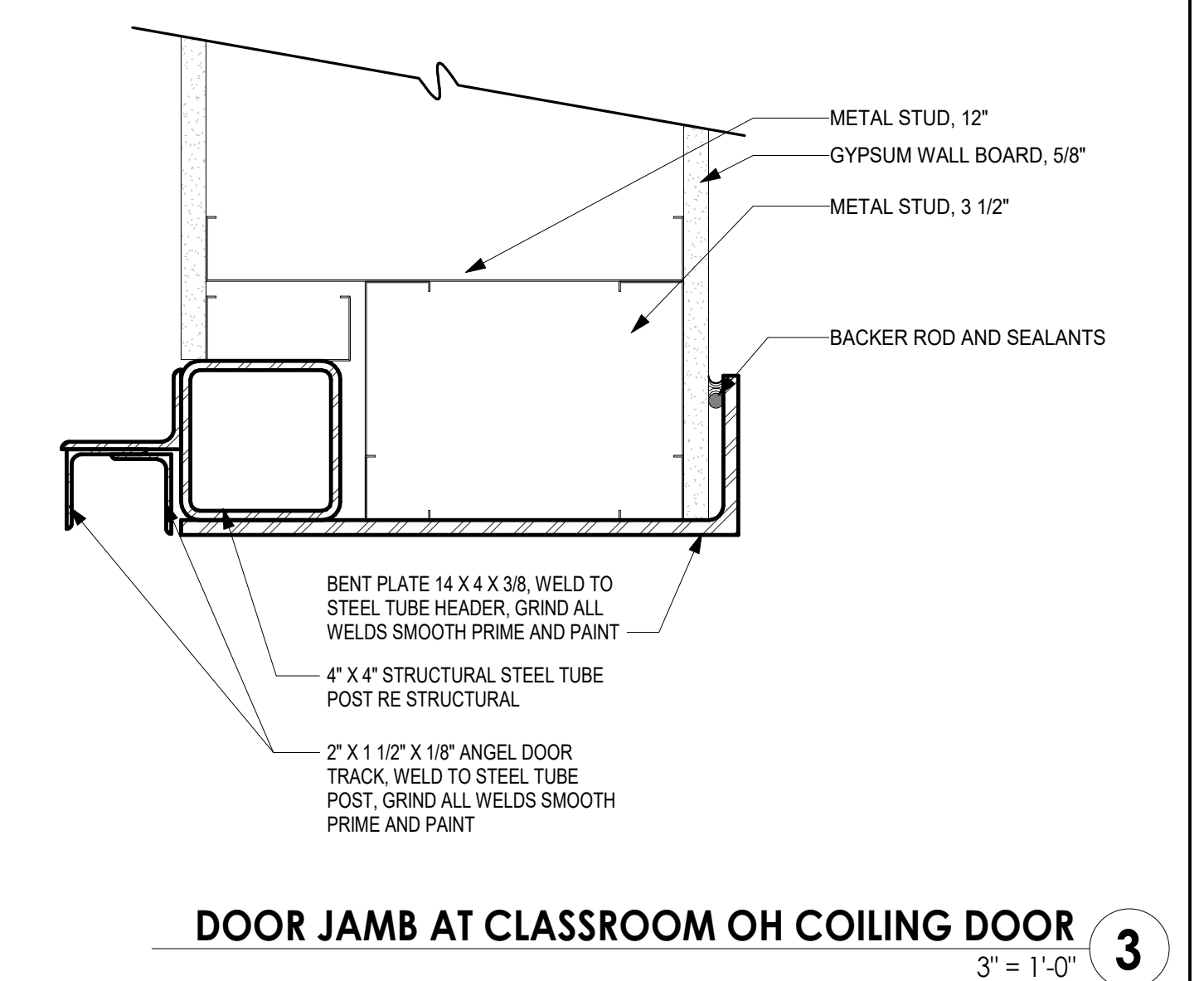
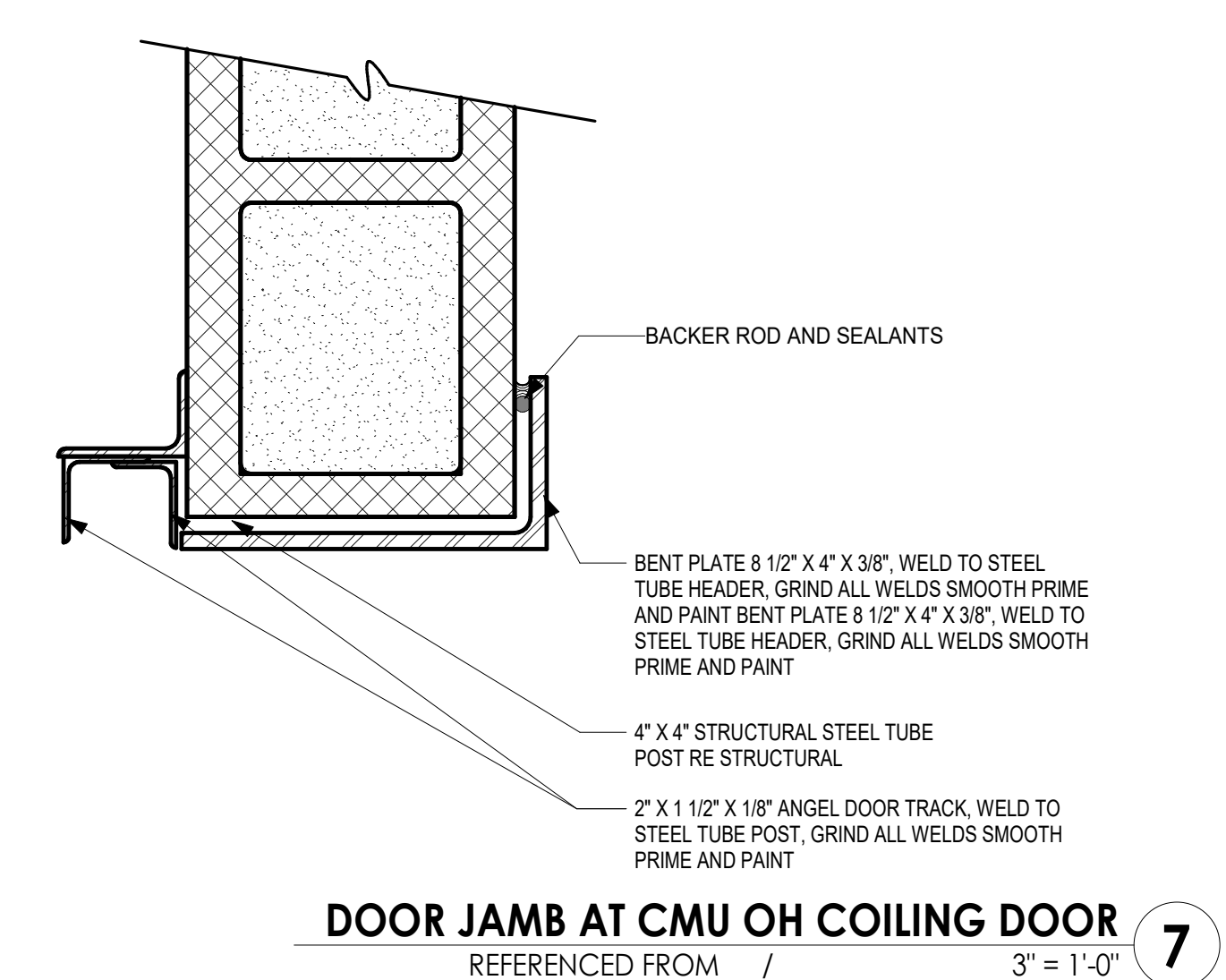
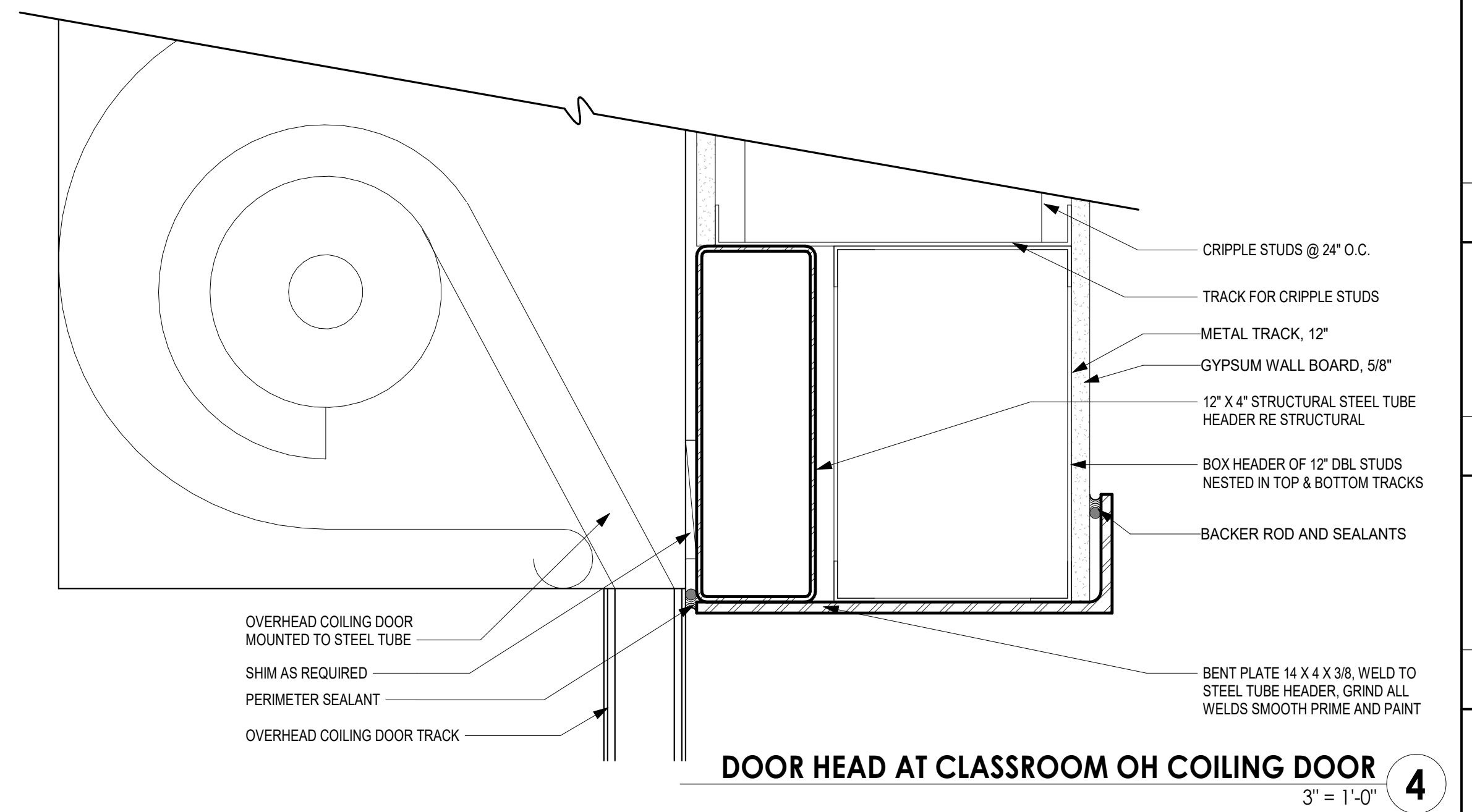
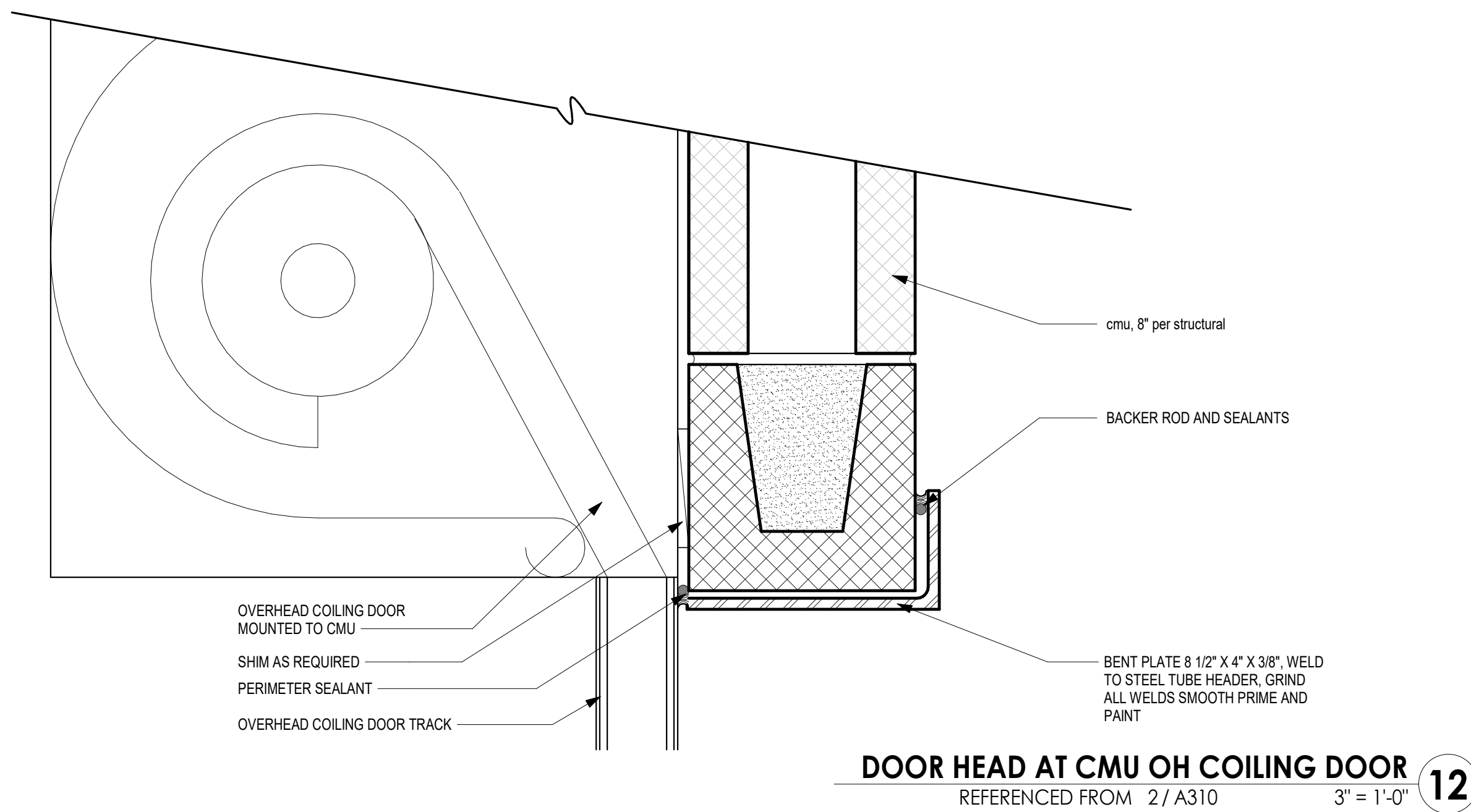
SHEET TITLE

DOOR/WINDOW
SCHEDULE & DETAILS

A601

SHEET 073 OF 131

9/29/2023 11:06:15 AM



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

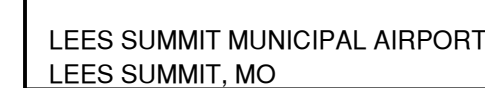
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO		
MARK	DATE	DESCRIPTION
PROJECT NO:	2219	
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt	
DESIGNED BY:	DM	
DRAWN BY:	KP	
CHECKED BY:	WAI	
APPROVED BY:	WAI	
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SHEET TITLE
**DOOR/WINDOW
DETAILS**

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



PROJECT NO:	2219
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ALUM. STOREFRONT DOOR/WINDOW SCHEDULE

SHEET 075 OF 131

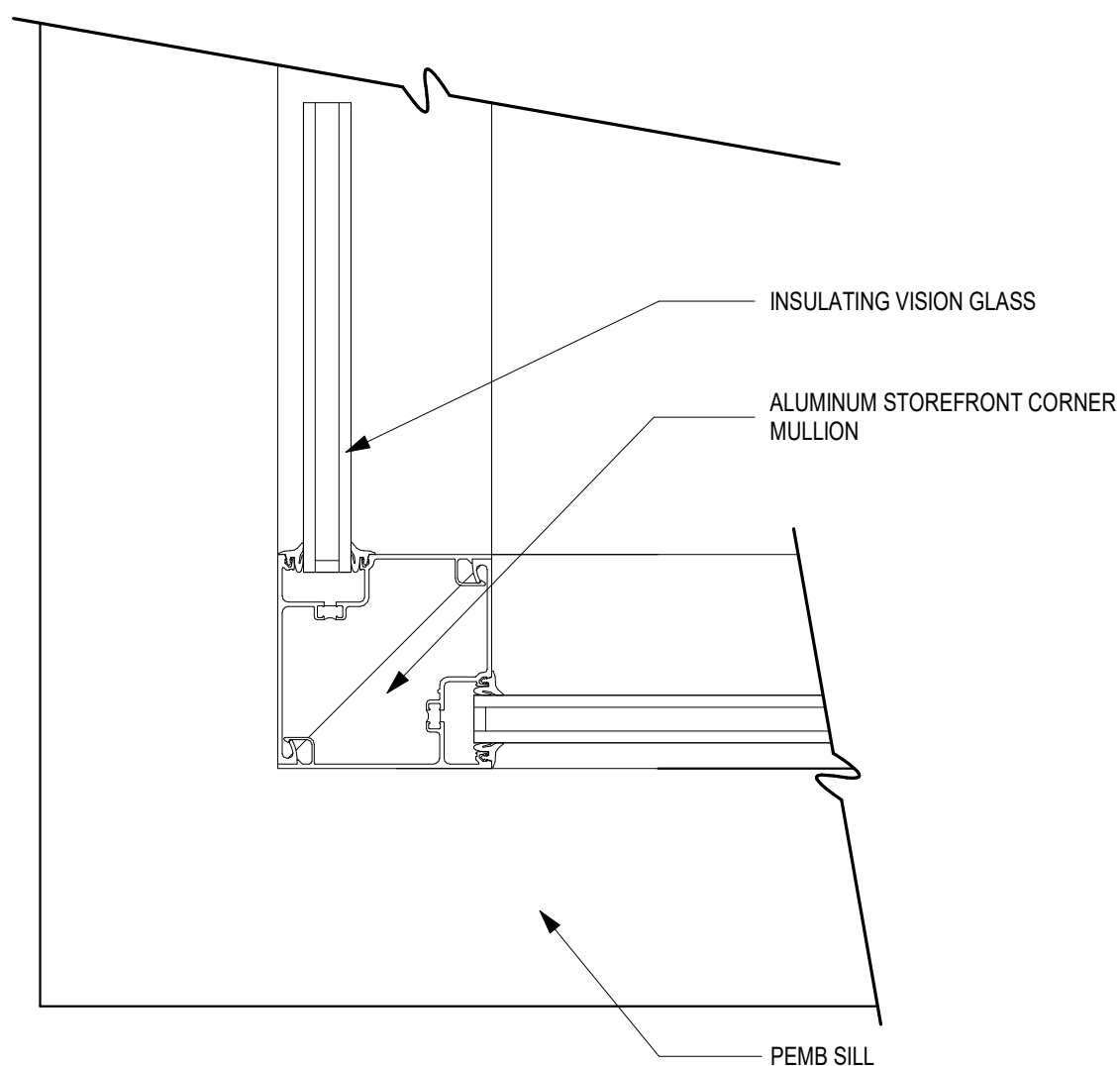


1/2" GLAZING IN CLEAR ANODIZED ALUMINUM STOREFRONT FRAMES, ALL INTERIOR GLAZING IS TO BE TEMPERED, GLAZING TO BE SG4 SCHOOL GUARD GLASS WHERE NOTED, GLAZING TO BE FIRE RATED IN RATED PARTITIONS PER PLANS

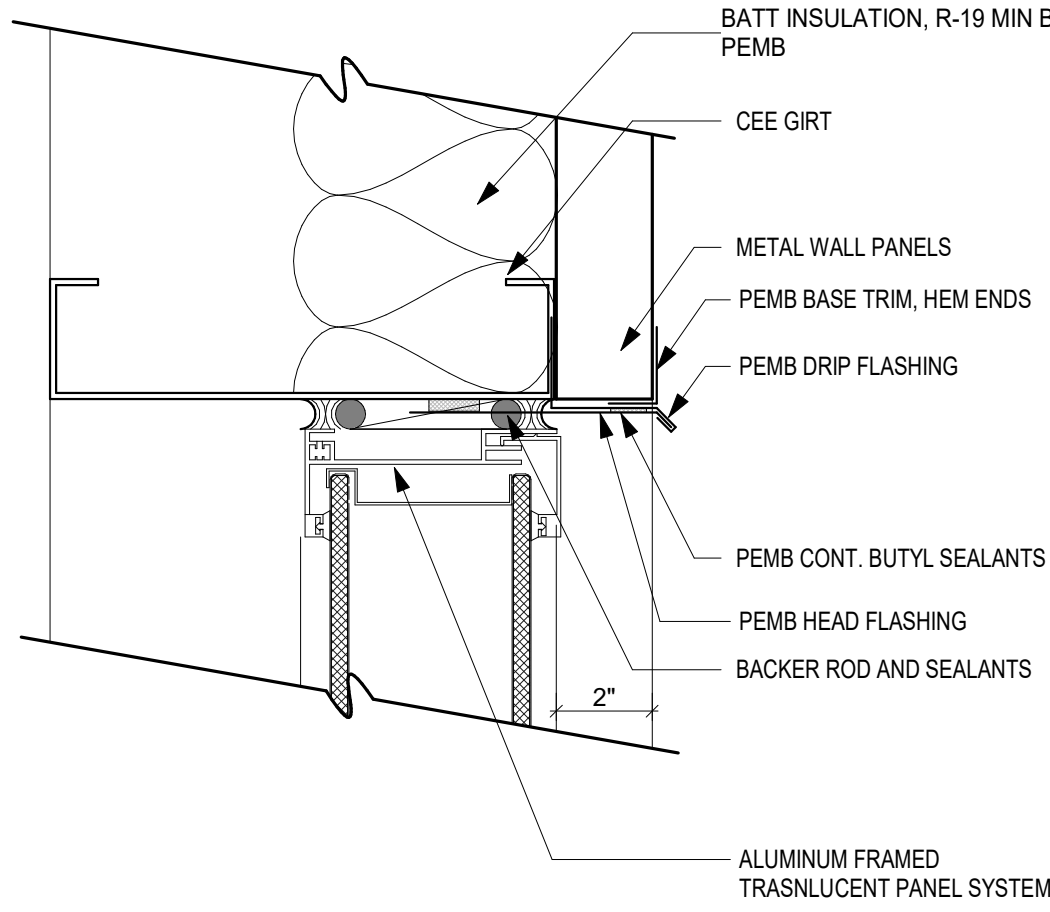


1" INSULATED GLASS (U-VALUE OF .29) WITH LOW E COATING AND ARGON FILL IN THERMALLY BROKEN CLEAR ANODIZED ALUMINUM STOREFRONT FRAMES

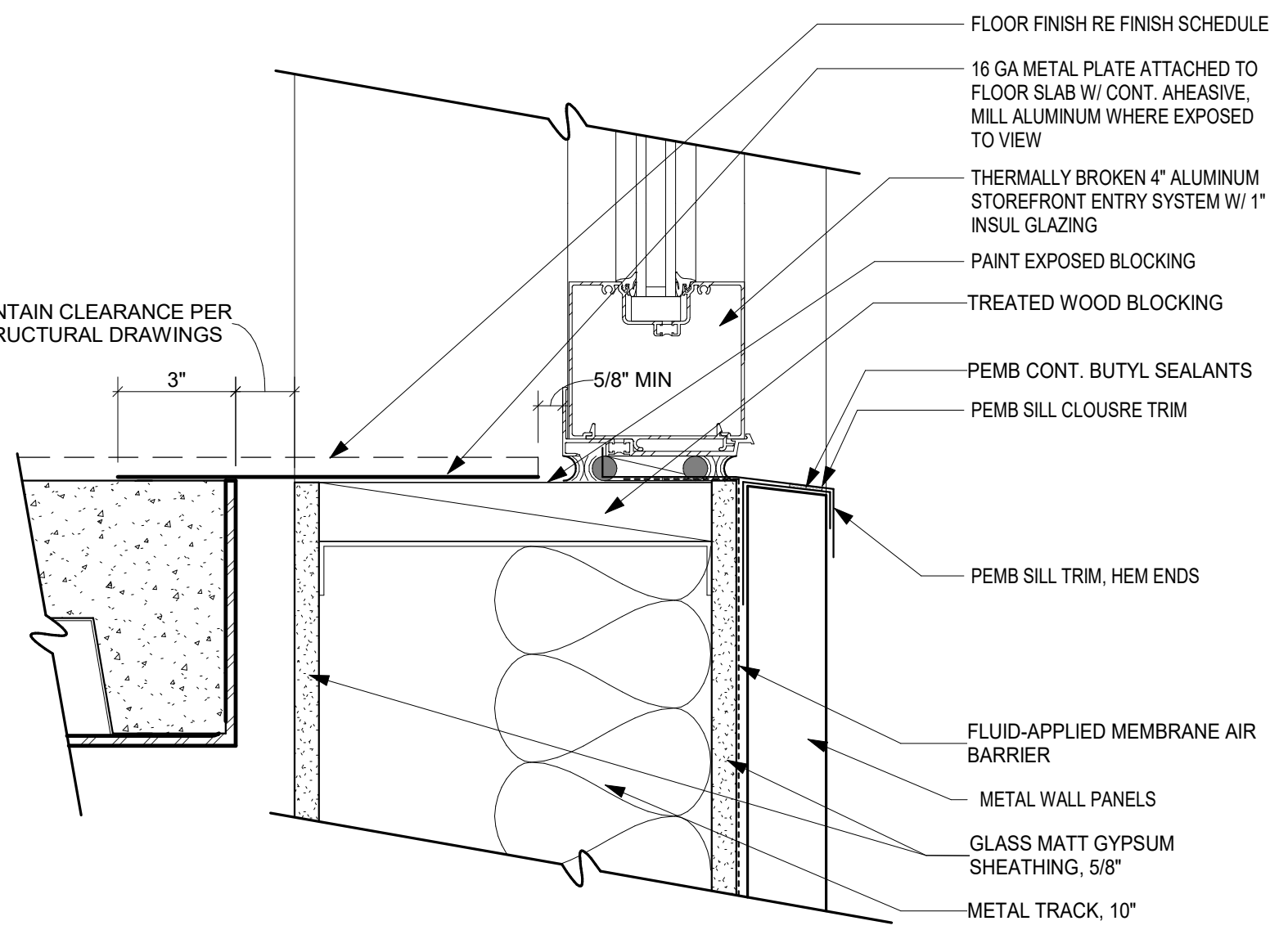
FURNISH AND INSTALL TEMPERED GLASS AT ALL DOORS AT A MINIMUM FO 24" EITHER SIDE OF DOOR TO A MINIMUM HEIGHT OF 60". TEMPERED GLASS SHALL ALSO BE INSTALLED AT ALL GLASS WITHIN 18" IF FUBUSG FLOOR OR ADJACENT TO SIDEWALK AREAS.



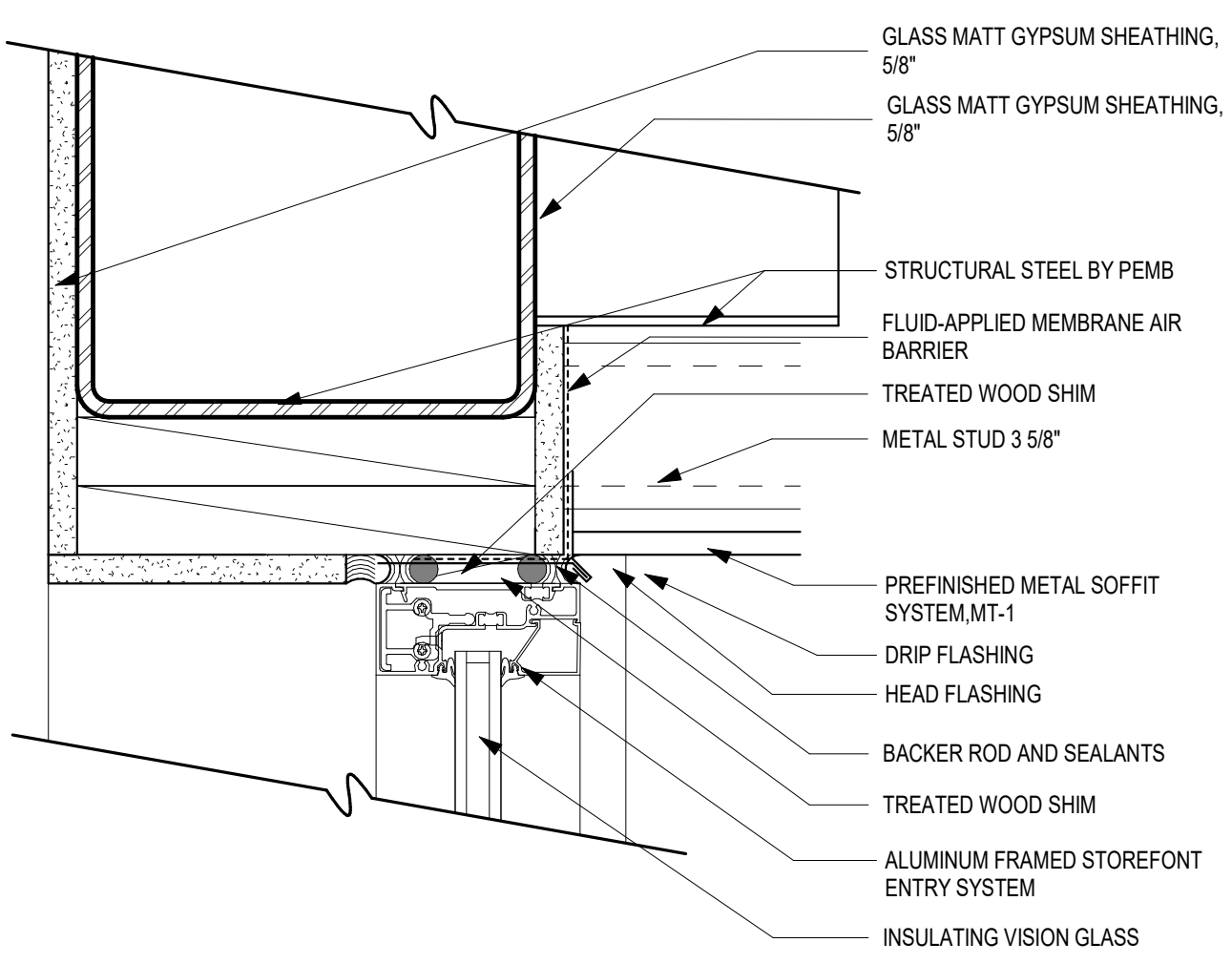
DETAIL - STOREFRONT CORNER
3" = 1'-0" 16



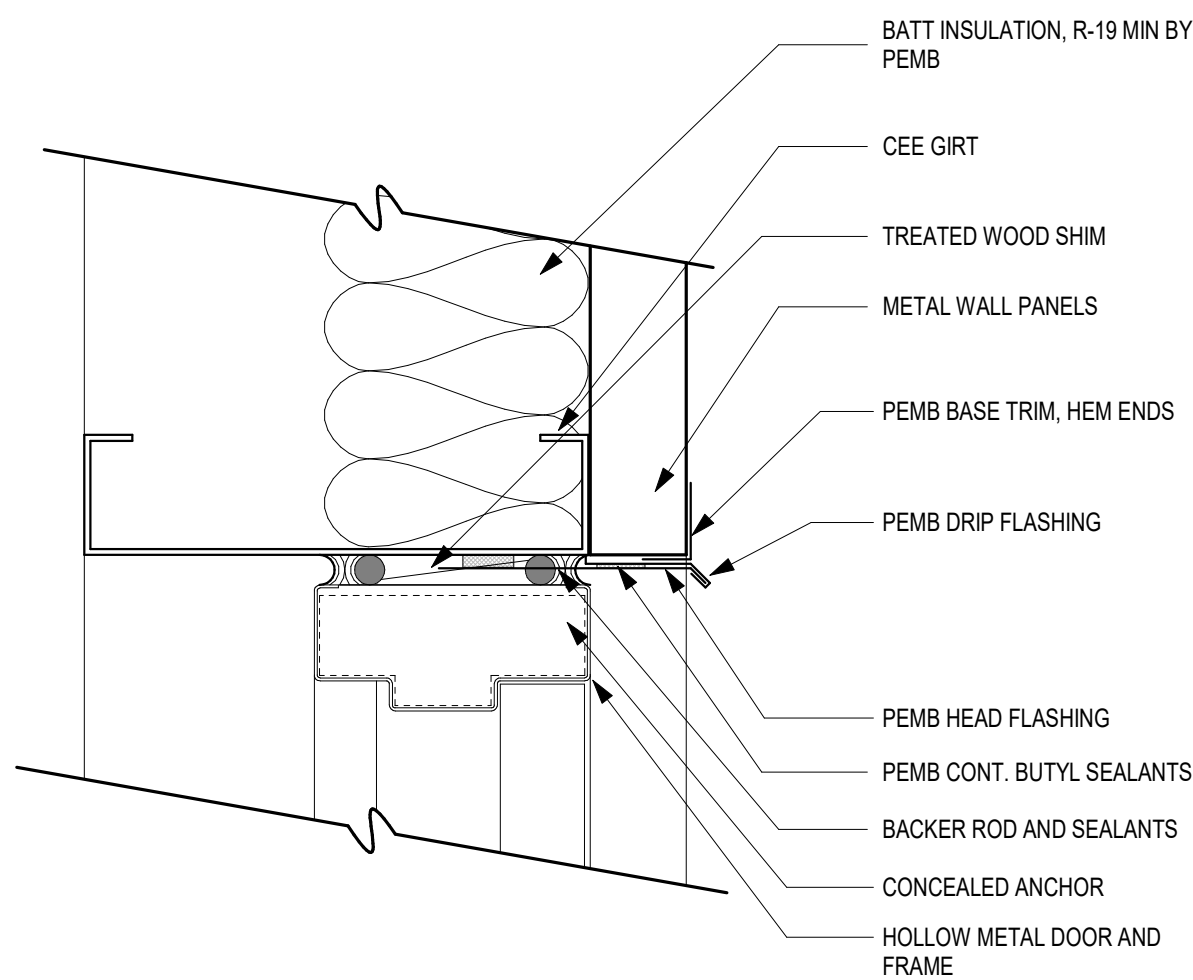
DETAIL - TRANSLUCENT PANEL HEAD
3" = 1'-0" 12



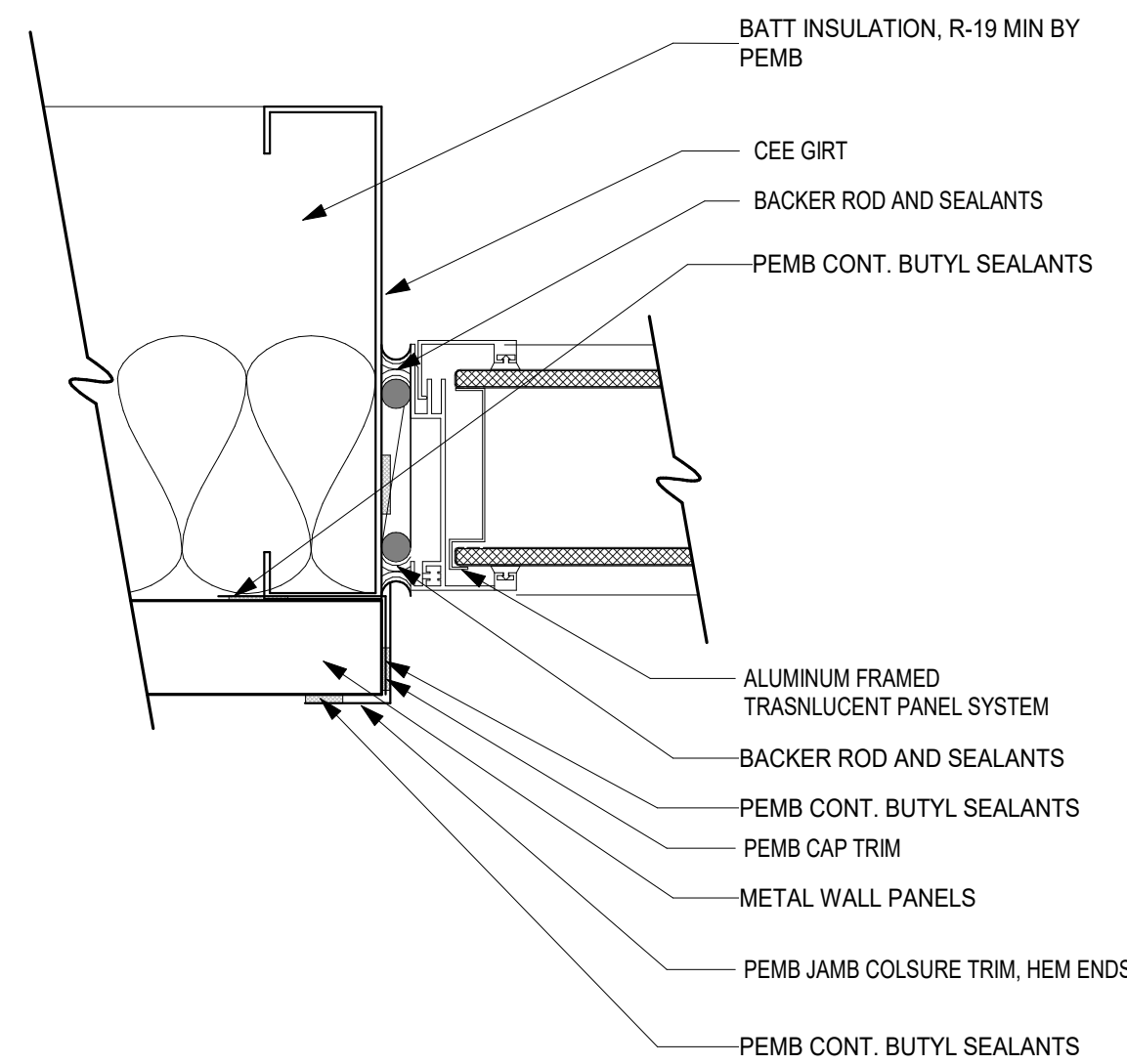
DETAIL - STOREFRONT 2ND FLOOR AT PEBM
3" = 1'-0" 8



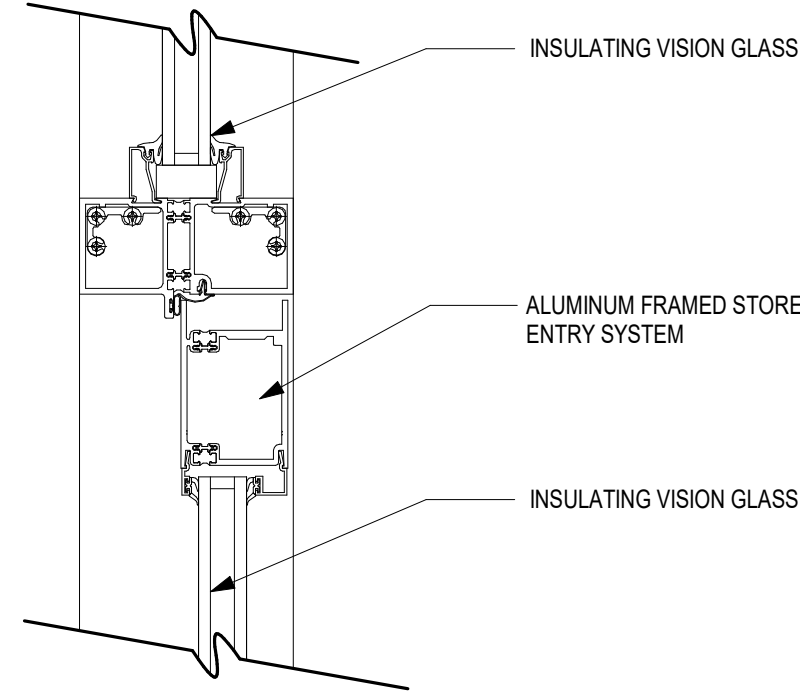
DETAIL - STOREFRONT HEAD AT CANOPY
3" = 1'-0" 4



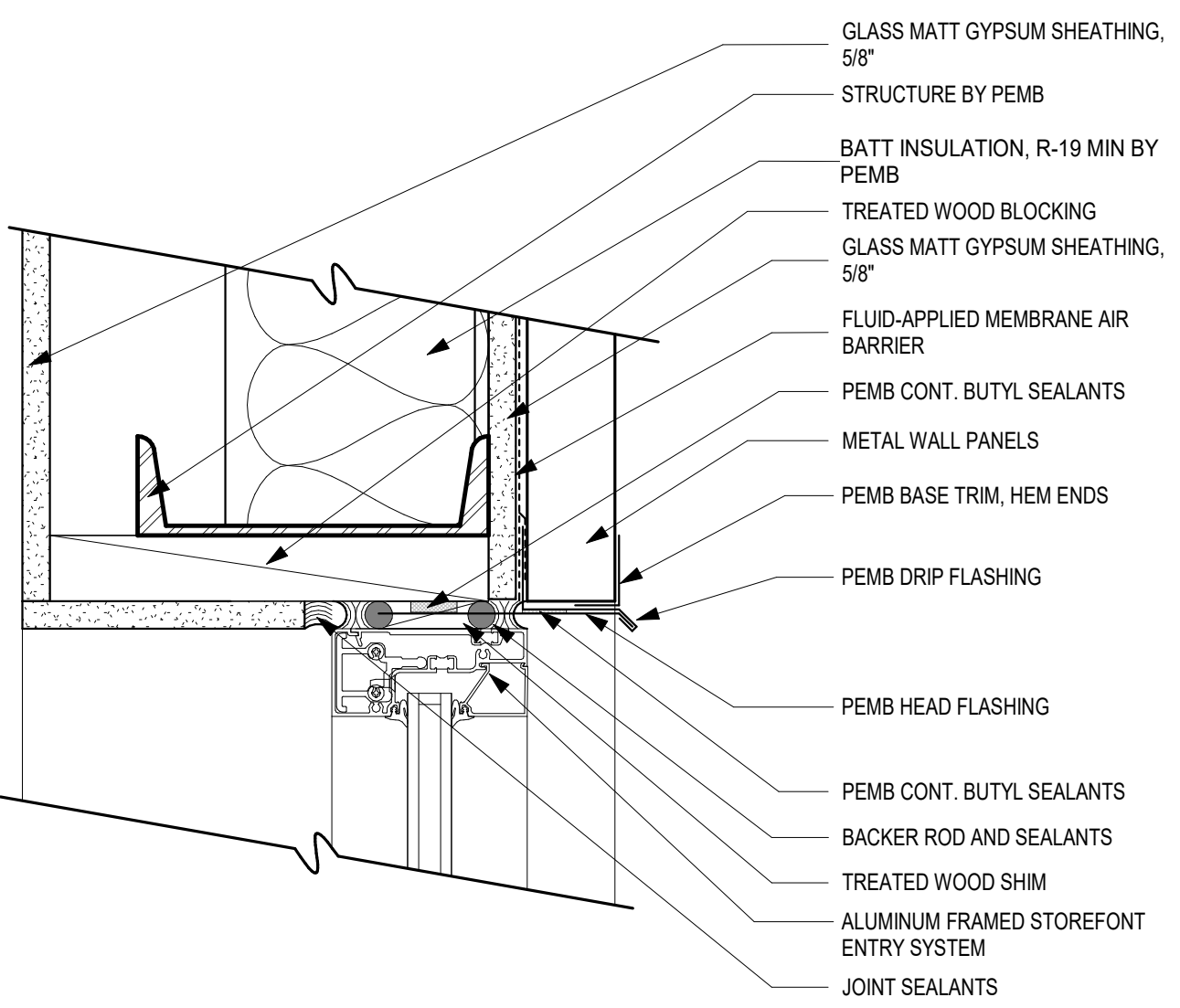
DETAIL - HM HEAD AT MTL PANEL
3" = 1'-0" 15



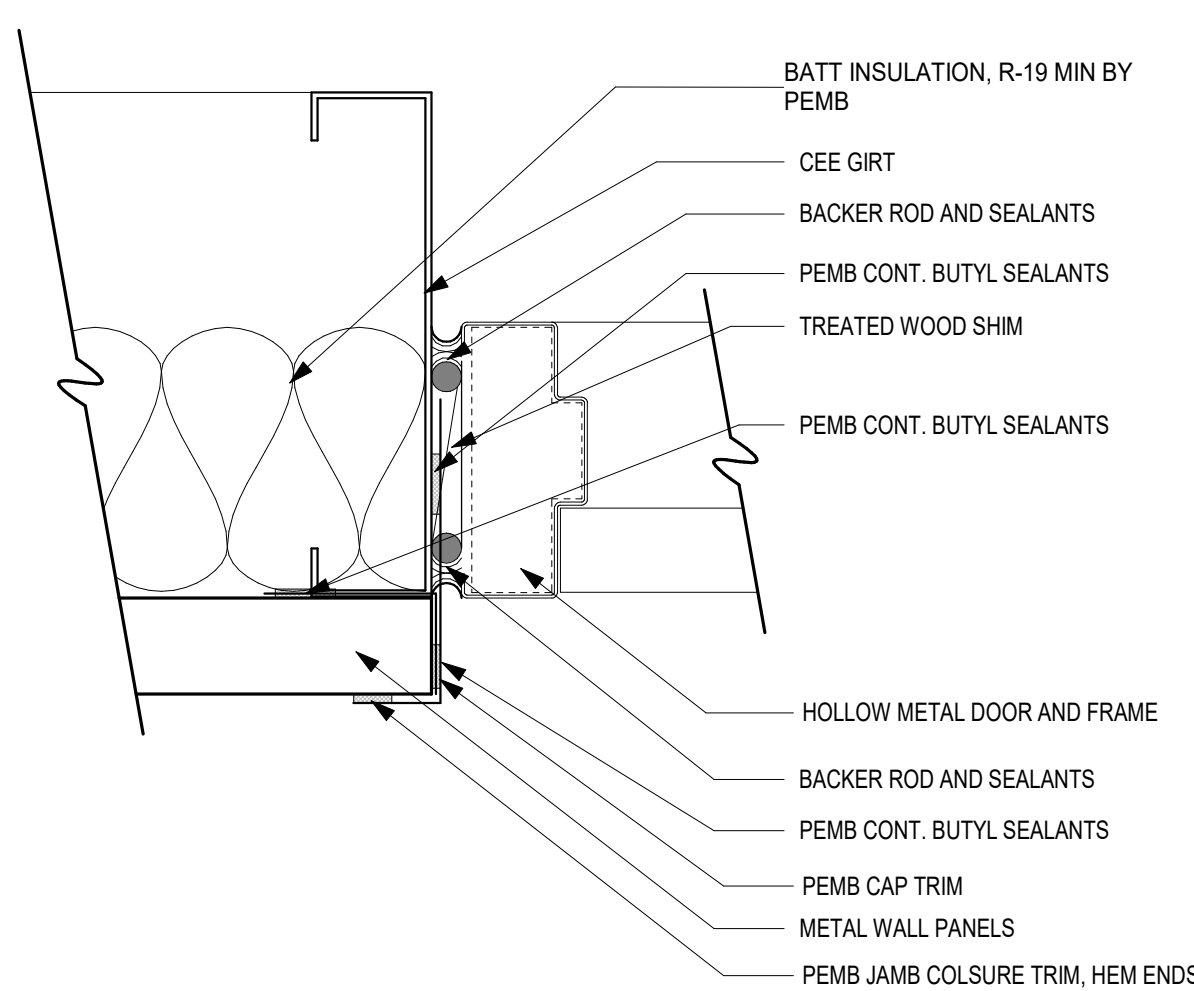
DETAIL - TRANSLUCENT PANEL JAMB
3" = 1'-0" 11



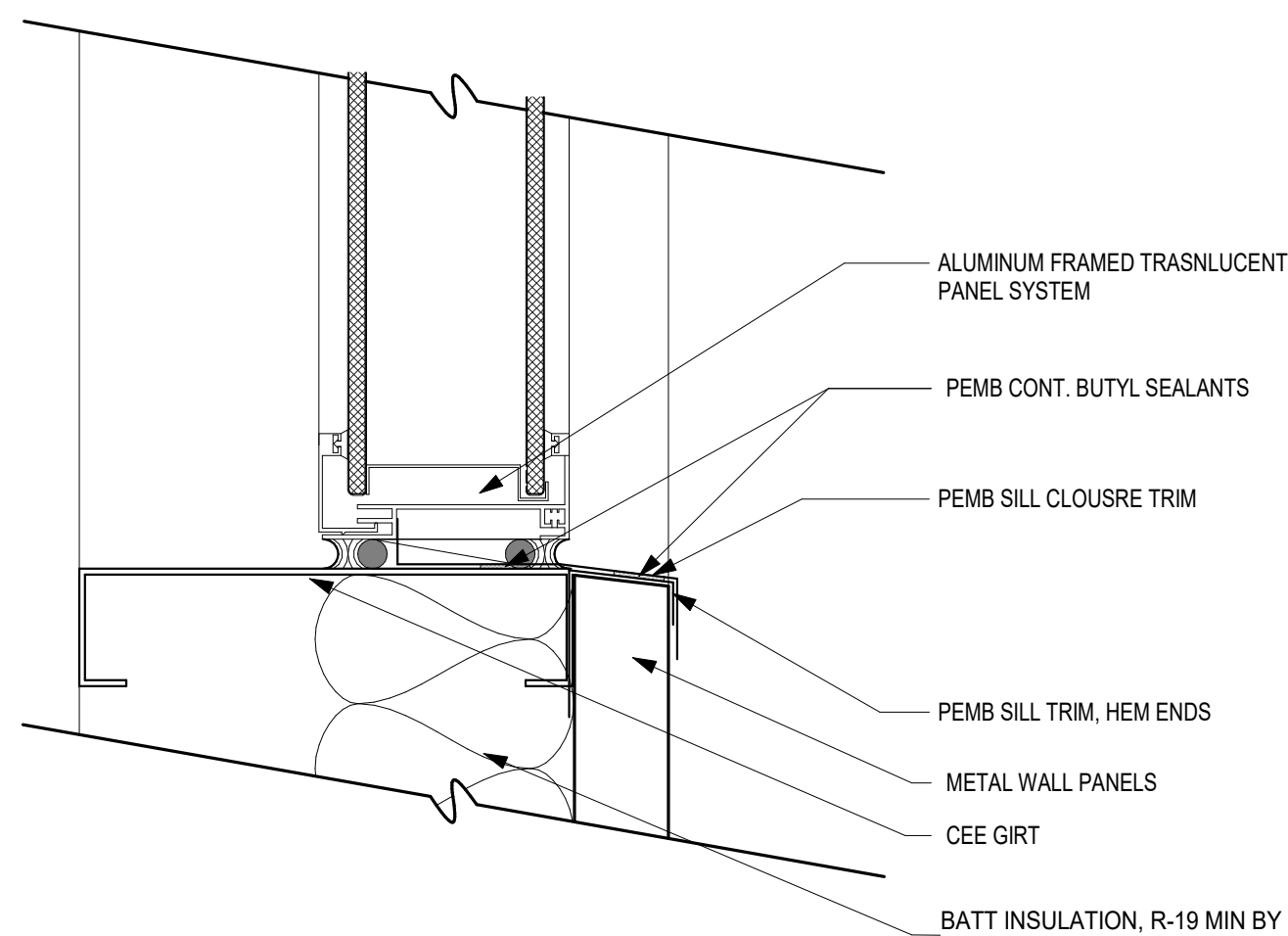
DETAIL - STOREFRONT HEAD ENTRY
3" = 1'-0" 7



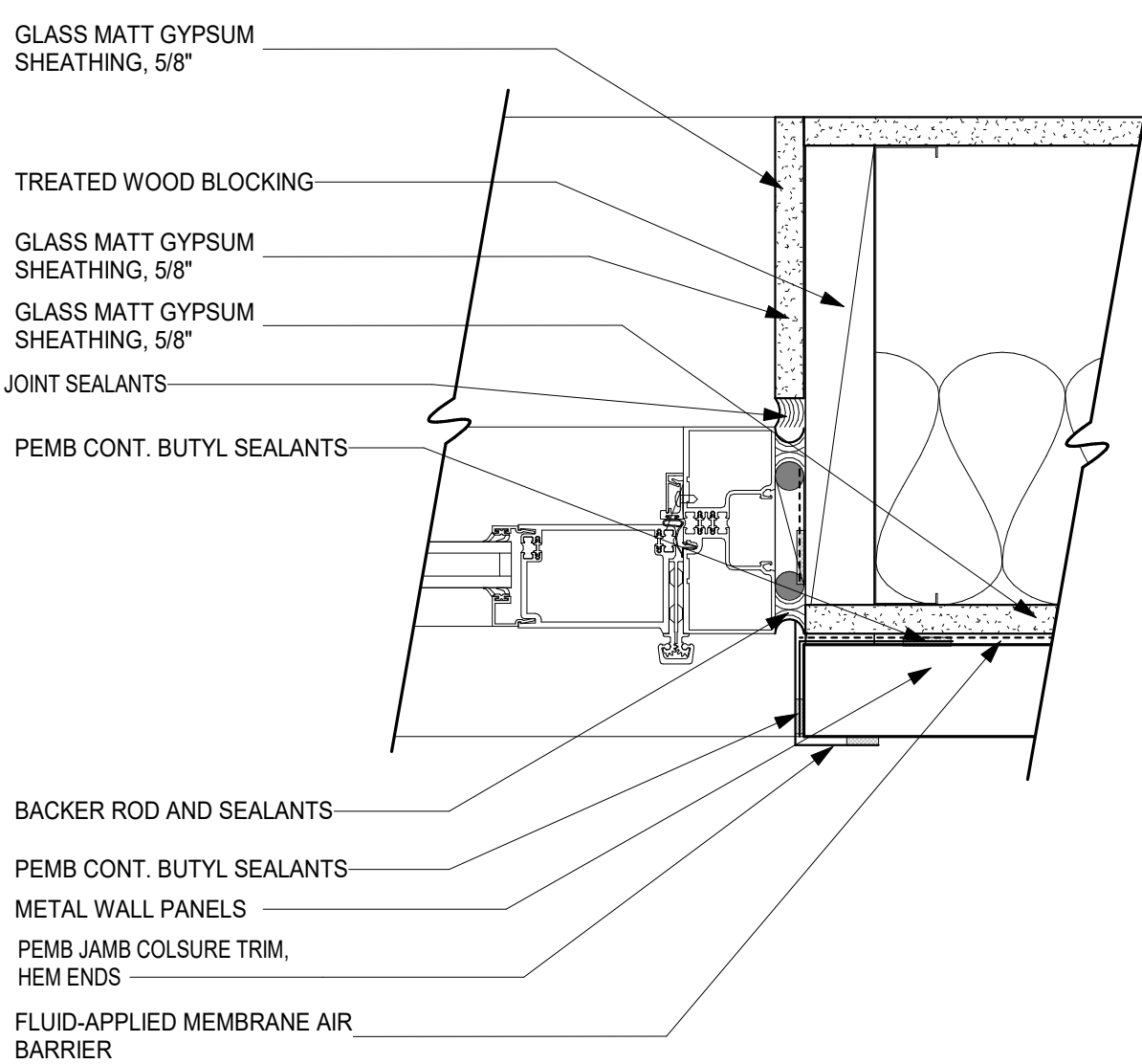
DETAIL - STOREFRONT HEAD
3" = 1'-0" 3



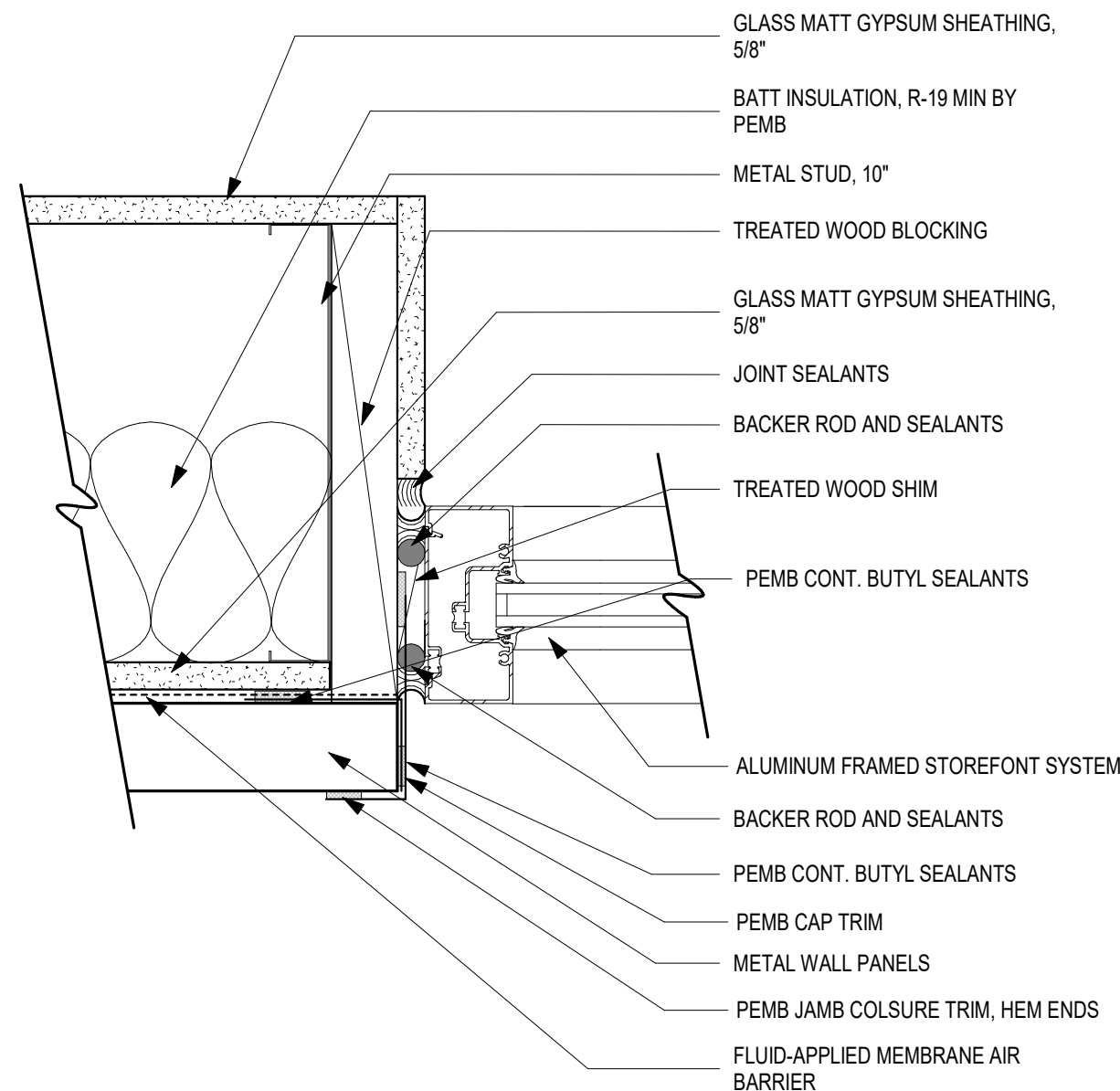
DETAIL - HM JAMB MTL PANEL
3" = 1'-0" 14



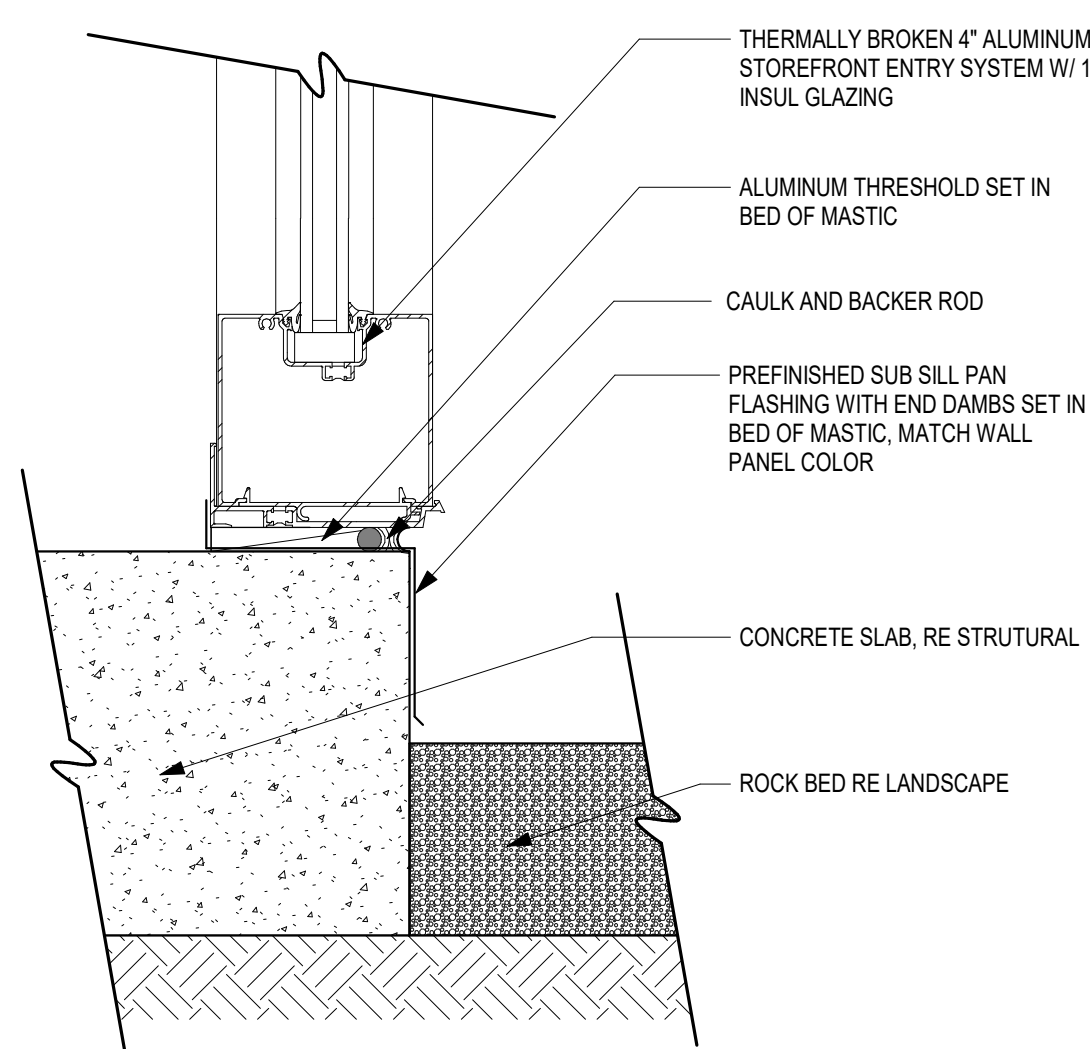
DETAIL - TRANSLUCENT PANEL SILL AT PEBM
3" = 1'-0" 10



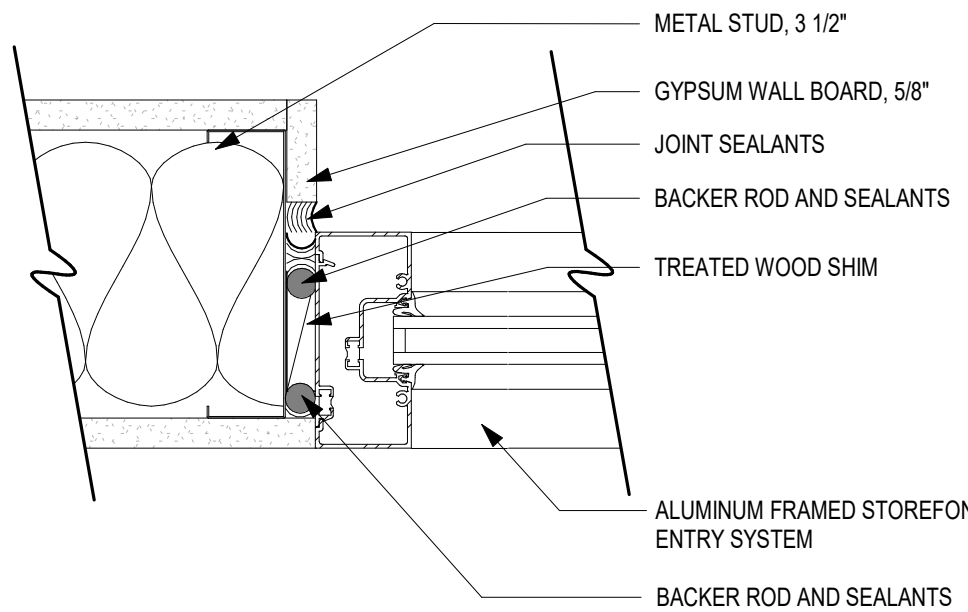
DETAIL - STOREFRONT JAMB AT DOOR
3" = 1'-0" 6



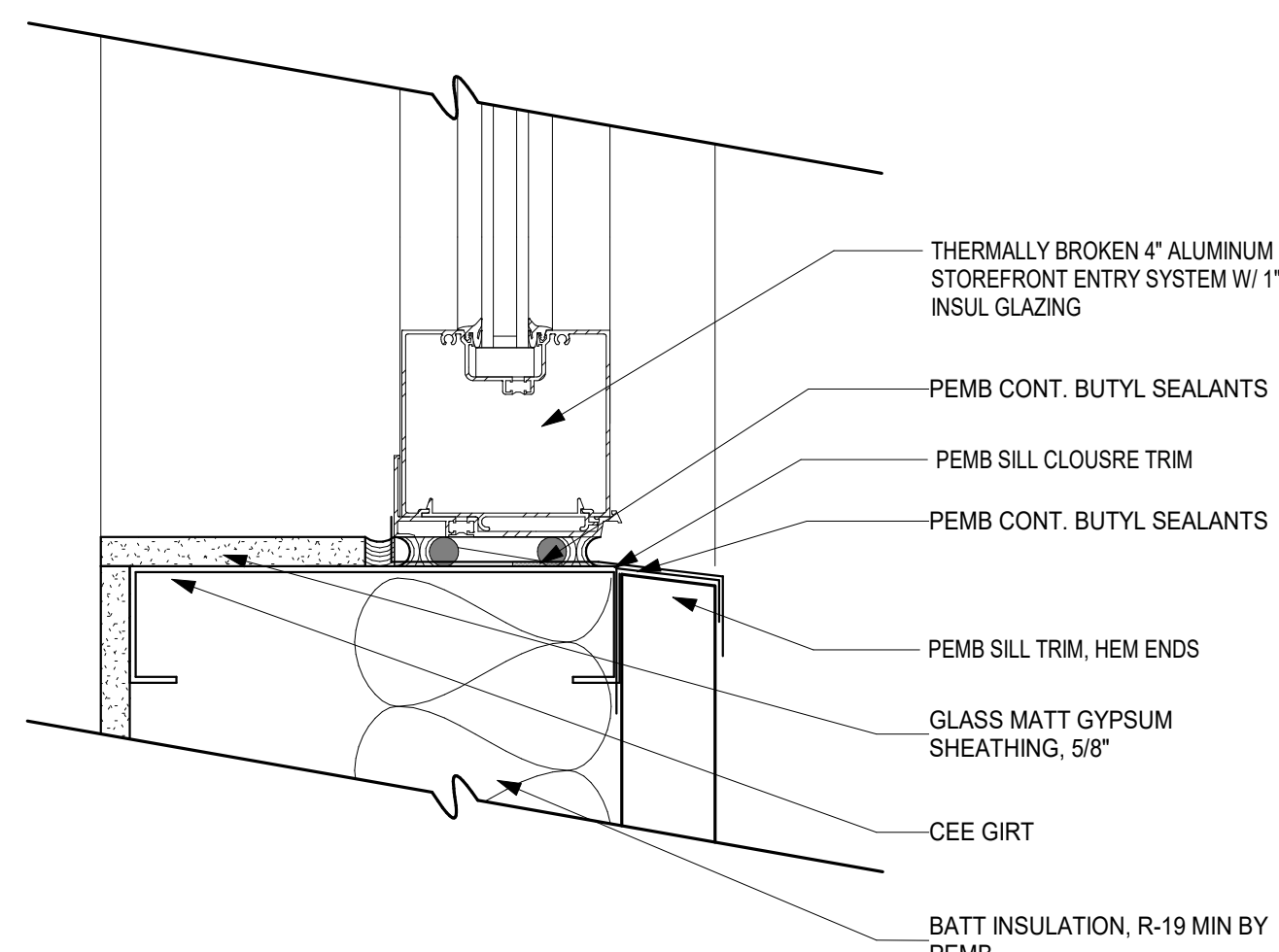
DETAIL - STOREFRONT JAMB
3" = 1'-0" 2



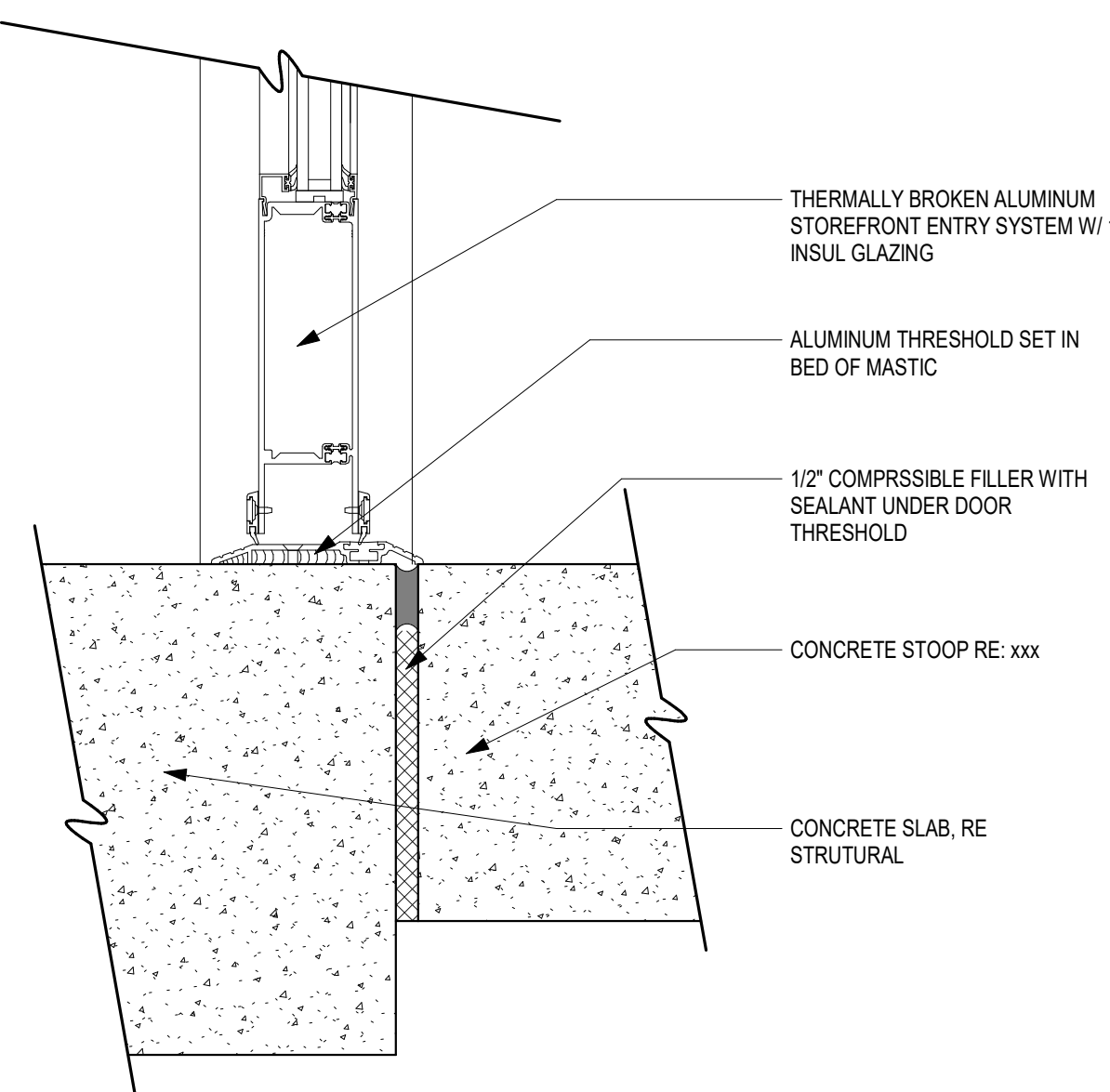
DETAIL - STOREFRONT SILL
3" = 1'-0" 17



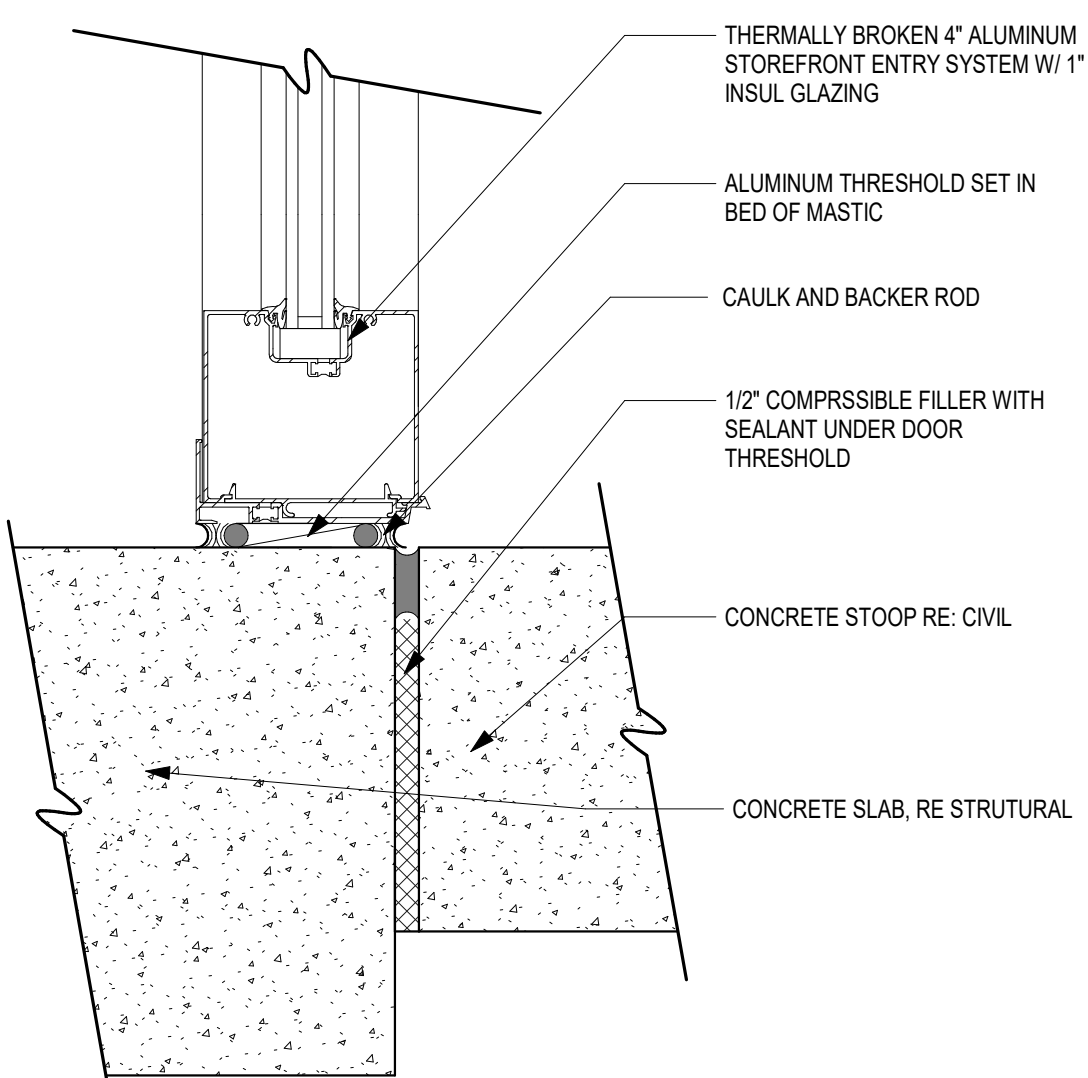
DETAIL - INTERIOR STOREFRONT JAMB/HEAD
3" = 1'-0" 13



DETAIL - STOREFRONT SILL AT PEBM
3" = 1'-0" 9



DETAIL - STOREFRONT SILL DOOR
3" = 1'-0" 5



DETAIL - STOREFRONT SILL AT SLAB
3" = 1'-0" 1



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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: KP
DRAWN BY: KP
CHECKED BY: WAI
APPROVED BY: WAI
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SHEET TITLE

STOREFRONT
DETAILS

A604

SHEET 076 OF 131

FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				REMARKS
				NORTH	EAST	SOUTH	WEST	
100	VESTIBULE	WOT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
101	ELEVATOR	CT-1	-	CMU-1	CMU-1	CMU-1	CMU-1	2
102	STAIR 2	SC-1	-	PNT-1	PNT-1	PNT-1	PNT-1	
103	STAIR 1	SC-1	-	PNT-1	PNT-2	PNT-1	PNT-1	
104	CORRIDOR	SC-1	RB-1	PNT-2	PNT-1	PNT-1	PNT-1	
105	WOMEN'S	CT-1	CTB-1	CT-2	WC-1	WC-1	CT-2	3
106	MEN'S	CT-1	CTB-1	CT-2	CT-2	WC-1	WC-1	3
107	LOBBY / WAITING	SC-1 / CPT-1	RB-1	PNT-4	PNT-1	PNT-1	PNT-1	
108	VENDING / COFFEE BAR	SC-1	RB-1	PNT-4	PNT-4	PNT-2	PNT-1	
109	RECEPTION / CAR RENTAL	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
110	VESTIBULE	WOT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
111	CORRIDOR	SC-1	RB-1	PNT-1	PNT-4	PNT-1	PNT-1	
112	FLIGHT PLANNING	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
113	ASSISTANT MANAGER	SC-1	RB-1	PNT-4	PNT-1	PNT-1	PNT-1	
114	LINE OFFICE	SC-1	RB-1	PNT-4	PNT-1	PNT-1	PNT-1	
115	JANITOR	SC-1	RB-2	FRP-1/PNT-1	PNT-1/FRP-1	PNT-1	PNT-1	4
116	STORAGE	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
117	LAUNDRY	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
118	MECH / ELEC	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
119	LAUNDRY / STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
120	FLIGHT SIMULATORS	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
121	ACTIVE LEARN LAB	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
122	WETROOM	SC-1	RB-2	PNT-5	PNT-5	PNT-5	PNT-5	1
123	RESTROOM	CT-4	CTB-2	CT-5	PNT-5	PNT-5	CT-5	
124	LEARNING STUDIO	CPT-1	RB-1	PNT-1	PNT-2	PNT-1	PNT-1	
125	OFFICE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
126	HANGAR	PNT-9	-	-	-	-	-	5,6
127	USE STORAGE	SC-1	-	-	-	-	-	5,6
201	ELEVATOR	CT-1	-	CMU-1	CMU-1	CMU-1	CMU-1	
202	STAIR 2	SC-1	-	PNT-1	PNT-1	PNT-1	PNT-1	
203	STAIR 1	SC-1	-	PNT-1	PNT-1	PNT-1	PNT-1	
204	CORRIDOR	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
205	CONFERENCE	CPT-2	RB-1	PNT-1	PNT-4	PNT-1	PNT-1	
206	OPEN OFFICE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
207	CORRIDOR	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
208	RESTROOM	CT-1	CTB-1	PNT-5	CT-2	CT-2	PNT-5	
209	JANITOR	SC-1	RB-2	PNT-1	PNT-1/FRP-1	PNT-1/FRP-1	PNT-1	4
210	RESTROOM	CT-1	CTB-1	PNT-5	PNT-5	CT-2	CT-2	
211	FUTURE OFFICE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
212	AIRPORT MANAGER	CPT-1	RB-1	PNT-1	PNT-1	PNT-2	PNT-1	
213	WORKROOM	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
214	BREAKROOM	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
215	I.T. CLOSET / MECH / ELEC	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
216	PILOT LOUNGE	CPT-2	RB-1	PNT-4	PNT-4	PNT-1	PNT-4	
217	PILOT QUIET ROOM	CPT-2	RB-1	PNT-4	PNT-4	PNT-4	PNT-4	
218	DRONE PAD	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
218	FLIGHT PLANNING	CPT-2	RB-1	-	PNT-1	PNT-1	PNT-4	
219	OFFICE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
220	CONFERENCE / CLASSROOM	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	
221	STORAGE	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
222	MECH / ELEC	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
223	I.T. ROOM	SC-1	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	
224	DRONE STORAGE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	

FINISH LEGEND						
Symbol	Manufacturer	Series/Pattern	Number	Color	Remarks	
Carpet Tile						
CPT-1	Show Commercial	Flat Weave/Community	5T321 - 01518/01519	Raid / Raid Marjorelle	9 in x 36 in, 1:5 Ratio Stagger Installation - Mostly Natural Raid Color	
CPT-2	Show Commercial	Flat Weave/Community	5T321 - 01500/01501	Souk / Souk Mosaic	9 in x 36 in, 1:5 Ratio Stagger Installation - Mostly Natural Souk Color	
Ceilings						
CLG-1	Armstrong	Optima	1410	White	24" x 24" x 5/8" in 15/16" Prelude grid system with 1 15/16" Axiom Classic Trim in White	
CLG-2	Armstrong	Optima	1410	White	24" x 24" x 5/8" in 15/16" Prelude grid system	
CLG-3	GYPSUM WALL BRD			Painted per RCP	Hard Lid Ceiling	
CLG-4	GYPSUM WALL BRD	Water Resistant		Painted per RCP	Wet area ceilings	
CLG-5	Armstrong	Woodworks Linear Solid Wood	8177W1	Golden Maple	12" x 96" Prelude 15/16 Black grid system with 1 15/16" Axiom Classic Trim in Etched Gun Metal	
CLG-6	INTERIOR LINER PANEL			White	Perforated, 29 Gauge, by PEMB Supplier at underside of roof insulation	
Ceramic Tile						
CT-1	Anatolia	La Marca	ANALMNV2424H	Nero Venato	24" x 24" Rectified, Honed	
CT-2	Anatolia	La Marca	ANALMNV1224H	Nero Venato	12" x 24" Rectified, Honed	
CT-3	Anatolia	La Marca	ANALMNVMO522H	Nero Venato	2" x 2" Rectified, Honed	
CT-4	Anatolia	La Marca	ANALMPA2424H	Paradiso Argento	24" x 24" Rectified, Honed, School Side RR	
CT-5	Anatolia	La Marca	ANALMPA1224H	Paradiso Argento	12" x 24" Rectified, Honed, School Side RR	
Ceramic Tile Base						
CTB-1	Anatolia	La Marca	ANALMNVBN312H	Nero Venato	3" x 12" Bullnose, Honed	
CTB-2	Anatolia	La Marca	ANALMPABN312H	Paradiso Argento	3" x 12" Bullnose, Honed, School Side RR	
Door Wood Finish						
WD-1	VT			Cherry Clear	Doors	
Elevator						
ELE-1	Schindler		3100	Tupelo Taupe - Prime	Interior Elevator Finish	
Fiberglass Reinforced Panel						
FRP-1	Marlite		P 151	Light Gray		
Ground Face Masonry Unit						
CMU-1	Trenwyth Masonry	Trendstone		Shadow Gray	8"X16" CMU WITH INTEGRAL 8" SCORE PATTERN AND MORTAR MATCHING CMU FINISH COLOR, RAKE ALL MORTAR JOINTS TO ALIGN WITH CMU SCORE PATTERN	
Grout						
G-1	Mapei					
G-2	Mapei				School Side RR	
High Pressure Laminate						
HPL-1	Akorite		W2001-AW	Artisan Natural Walnut	Cabinets, Front Desk	
HPL-2	Fornica		6126-SB	Sheer Fabric	Back Counters	
HPL-3	Fornica		8909-NG	Cascara Teakwood	RR Partitions	
Interior Door Frames						
IDF-1	Sherwin Williams		SW7069	Iron Ore	Match PNT-3	
Paint						
PNT-1	Sherwin Williams	Eggshell	SW7064	Passive	PER FINISH PLANS	
PNT-2	Sherwin Williams	Eggshell	SW9163	Tin Lizzie	PER FINISH PLANS	
PNT-3	Sherwin Williams	Eggshell	SW7069	Iron Ore	EXPOSED STRUCTURE, STAIR, AND RAILINGS PER DETAILS	
PNT-4	Sherwin Williams	Eggshell			PER FINISH PLANS	
PNT-5	Sherwin Williams	Epoxy Paint	SW7064	Passive	PER RCP	
PNT-6	Sherwin Williams	Dryfall	SW7004	Snowbound	HARD LID CEILINGS/SOFFITS PER RCP	
PNT-7	Sherwin Williams	Dryfall	SW9163	Tin Lizzie	HARD LID CEILINGS/SOFFITS PER RCP	
PNT-8	Sherwin Williams	Dryfall	SW7069	Iron Ore	EXPOSED STRUCTURE/BEAMS	
PNT-9	SikaFloor Multiclar HS	Epoxy		White	HANGAR FLOOR	
PNT-10	Sherwin Williams		SW9500	Safety Red	AT FRONT FACES OF PEMB COLUMNS UP TO HEIGHT OF 28'-0"	
Resilient Base						
B-1	Johnsontite	4" Mandalay	TA4	Gateway WG		
B-2	Johnsontite	4" Standard	TA4	Gateway WG		
Schluter						
SCH-1				Clear Anodized Aluminum		
Sealed Concrete						
SC-1		Sealed Concrete			WITH CLEAR SEALER, CONCRETE FLOORS TO BE FREE OF BUMPS, PITS, OR SCRAPES	
Solid Surface						
SS-1	Fornica	Everform	109	Brille White		
SS-2	Bradley	Terreon		Alpine White	Bradley OmniDeck with WashBar Duo	
Steel Railings						
SR-1					Match PNT-3	
Walkoff Tile						
WOT-1	Show Commercial	Swift/All Access	5T414/14549	Step	24" X 24"	
Wall Covering						
WC-1	MDC	Scribble	WS2001	Cloudy Ink		

FINISH SCHEDULE REMARKS KEY

1. EPOXY PAINT ON COLUMN
2. ELEVATOR STRUCTURE CMU-1, CT-1 FLOORING IN CAB, WITH ELE-1 CAB FINISHES
3. CT-3 MOSAIC BEHIND SINKS, PER ELEVATIONS
4. FRP-1 AT MOP BASIN @ A HEIGHT OF 8'-0" AFF - EXTEND 3' OUT EITHER DIRECTION OF MOP BASIN AS ALLOWED
5. PREFINISHED LINER PANEL (WHITE) AND PAINTED COLUMNS PER PLAN NOTES
6. PAINT CMU WALL TO MATCH LINER PANEL



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

11/10 REV:1
MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: HM
DRAWN BY: HM
CHECKED BY: WAI
APPROVED BY: WAI
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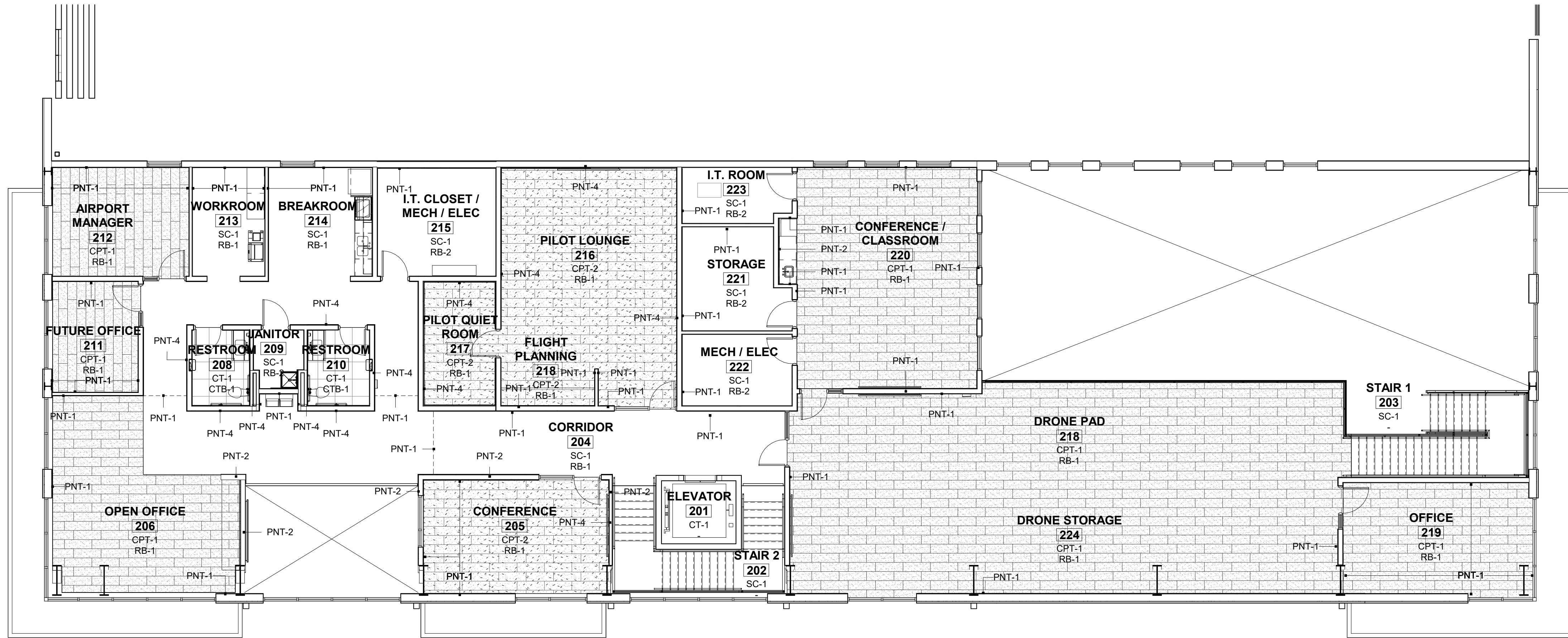
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FINISH SCHEDULE

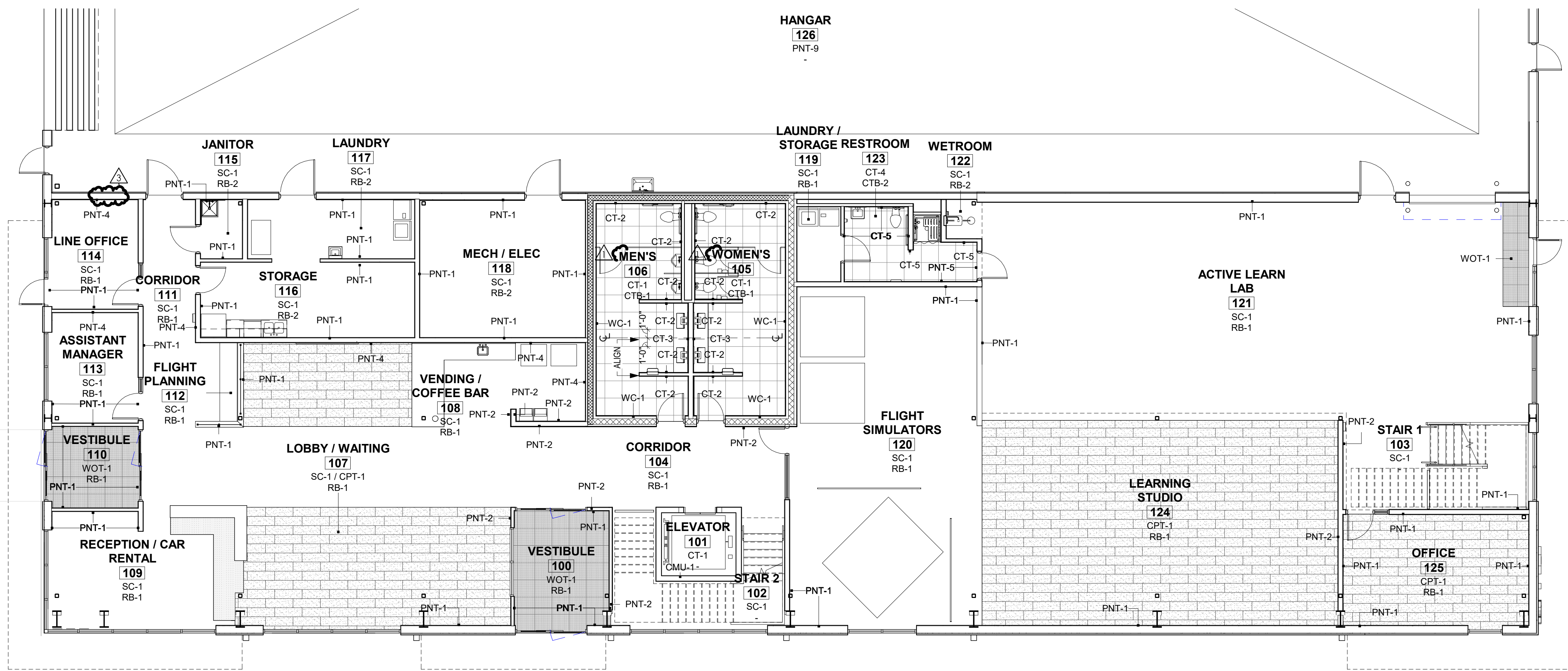
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SHEET 077 OF 131

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FINISH PLAN - LEVEL 2
1/8" = 1'-0" 2



FINISH PLAN - LEVEL 1
1/8" = 1'-0" 1

FINISH TAG KEY

ROOM NAME	ROOM
ROOM #	123
FLOOR FINISH	CPT-1
BASE FINISH	B-1

WALL FINISH PT-1 →



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EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
3	1/24/2	REV-3
1	11/10/	REV-1
23		

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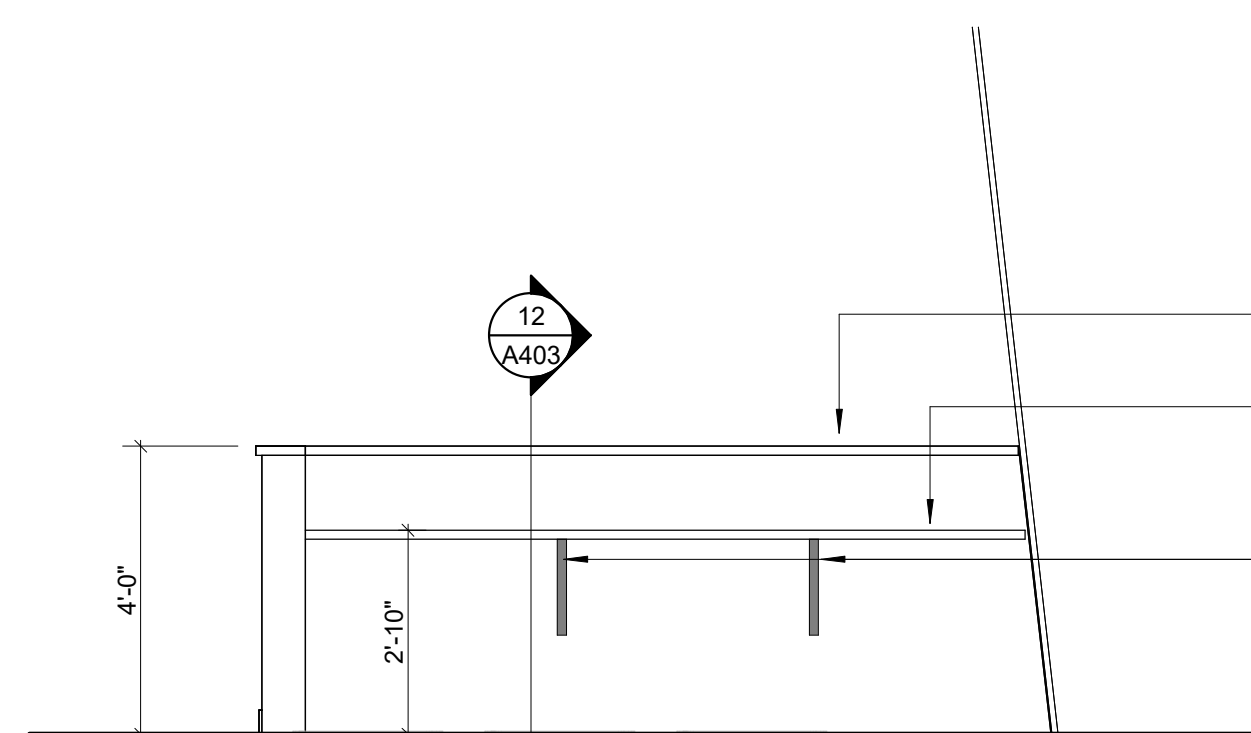
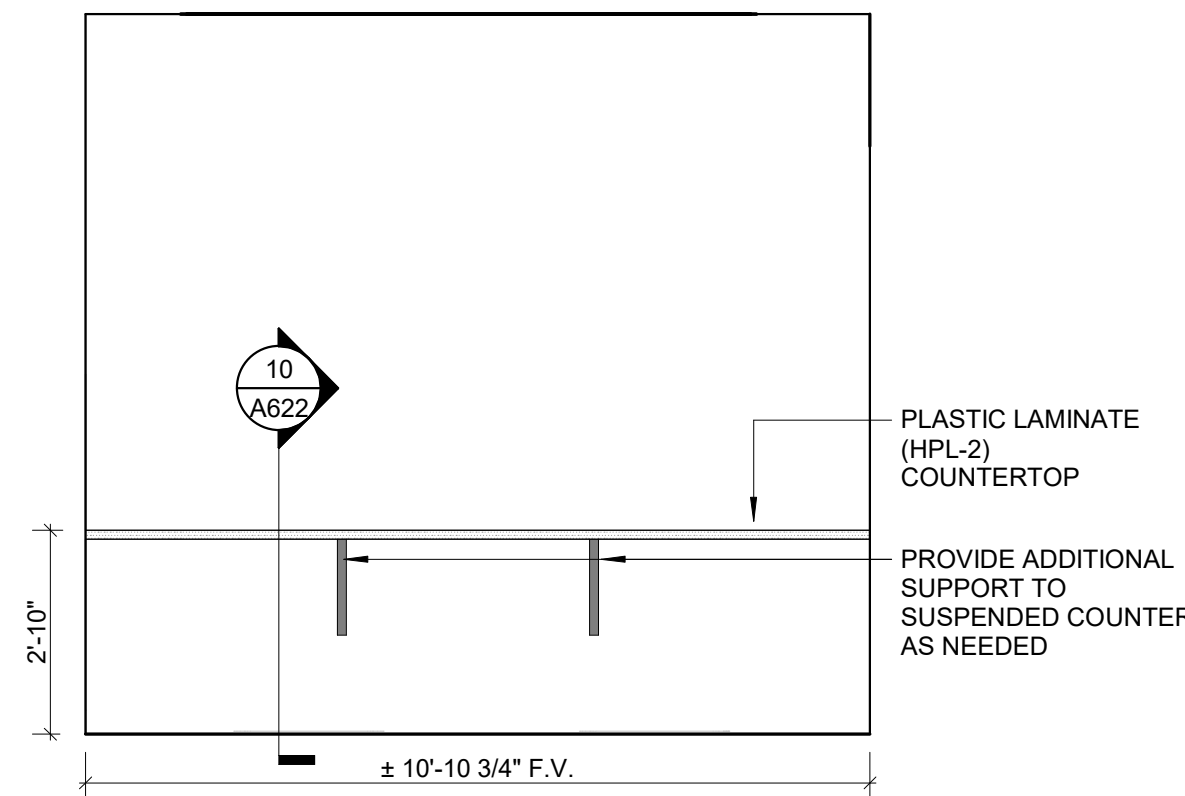
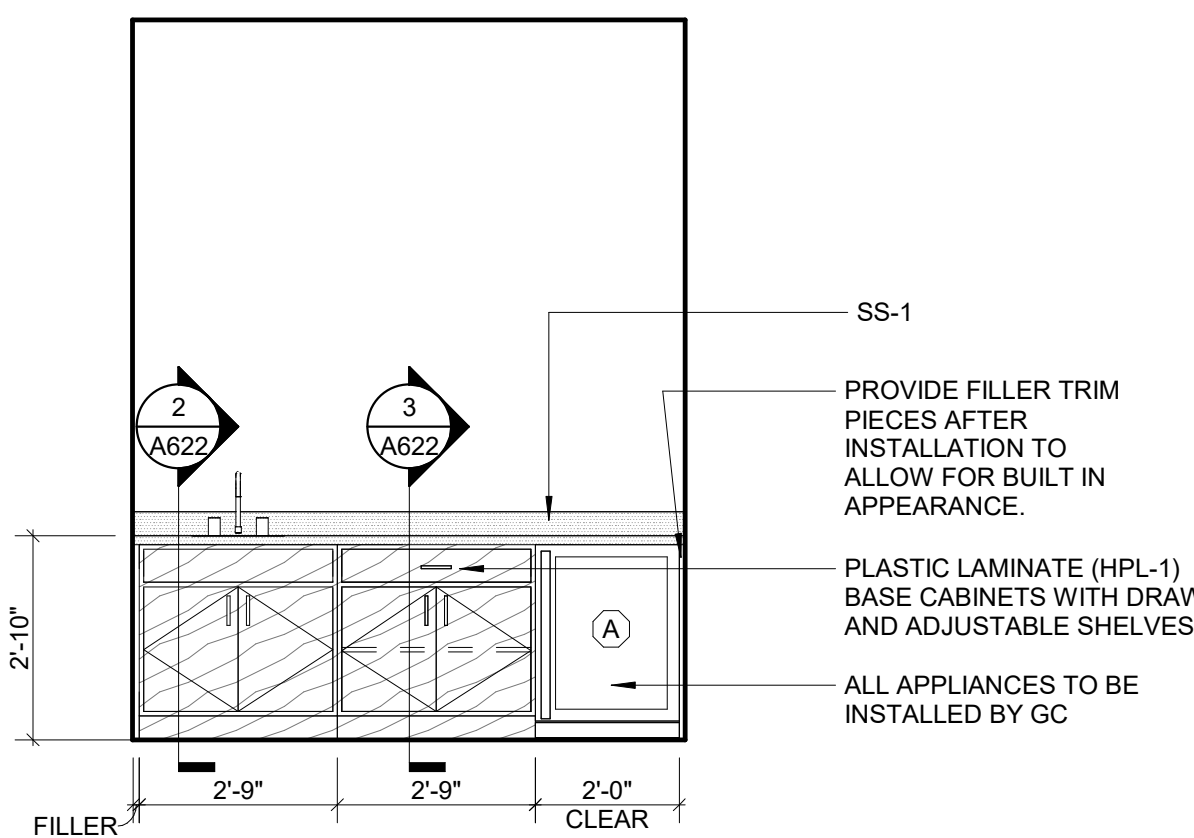
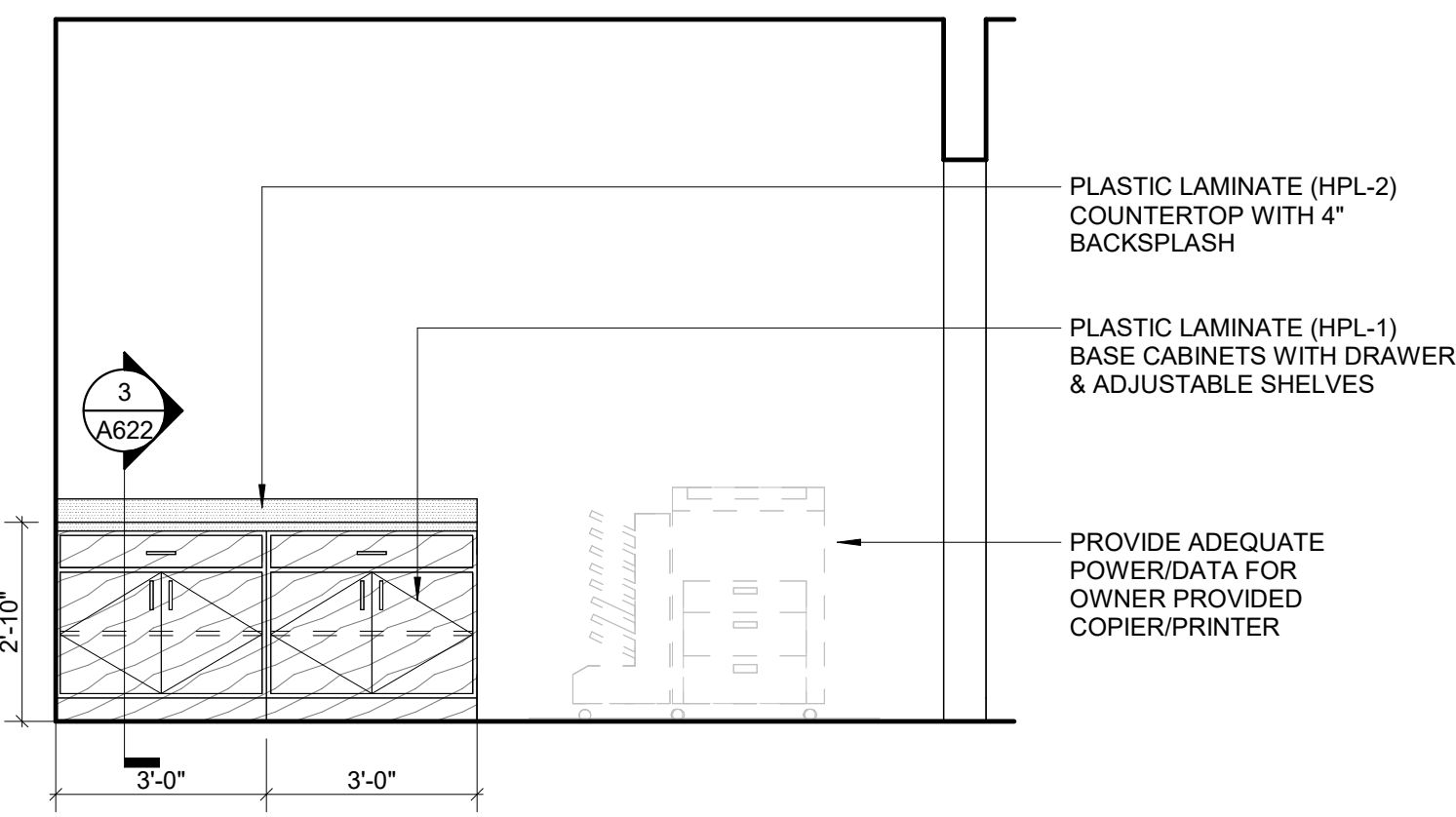
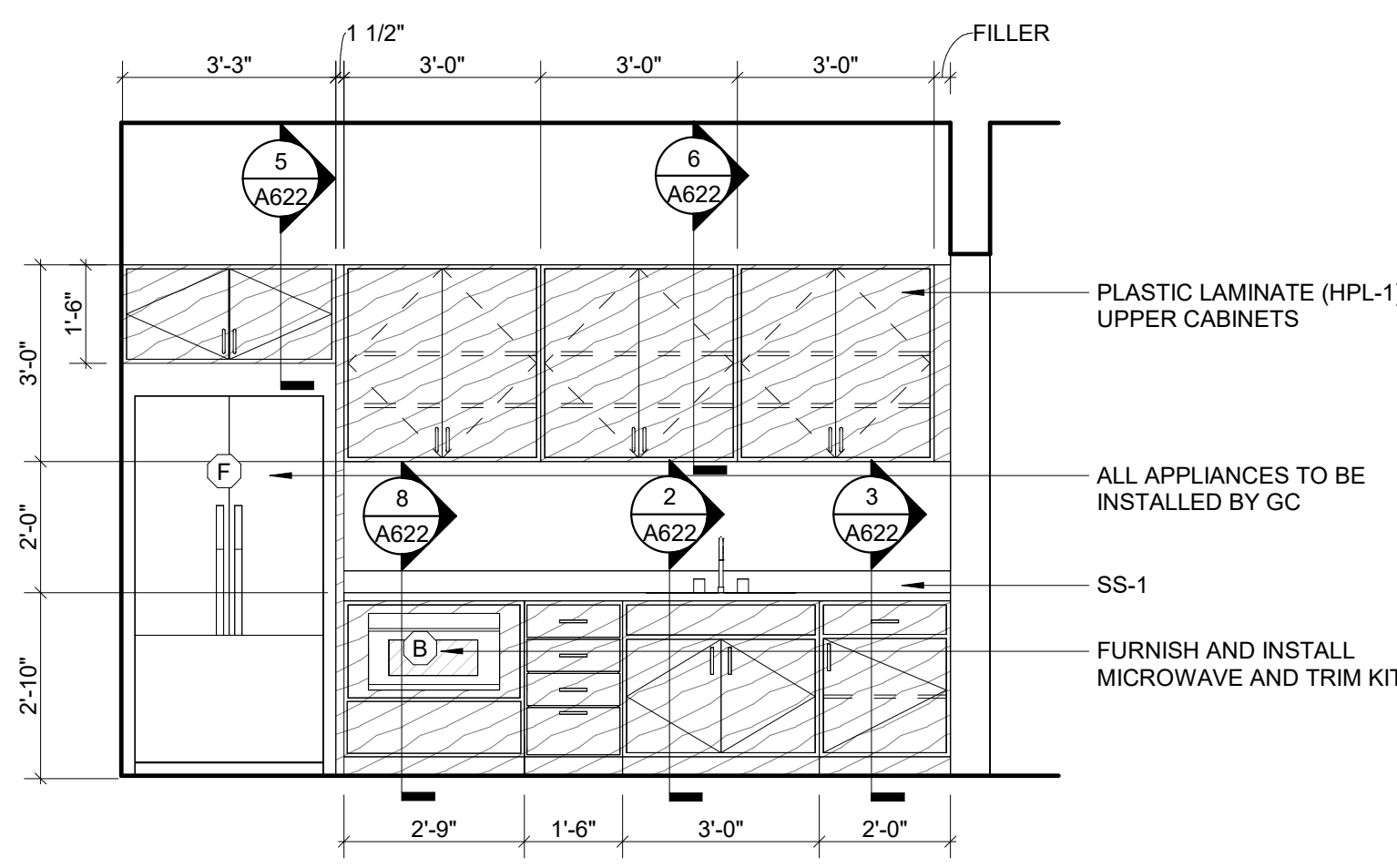
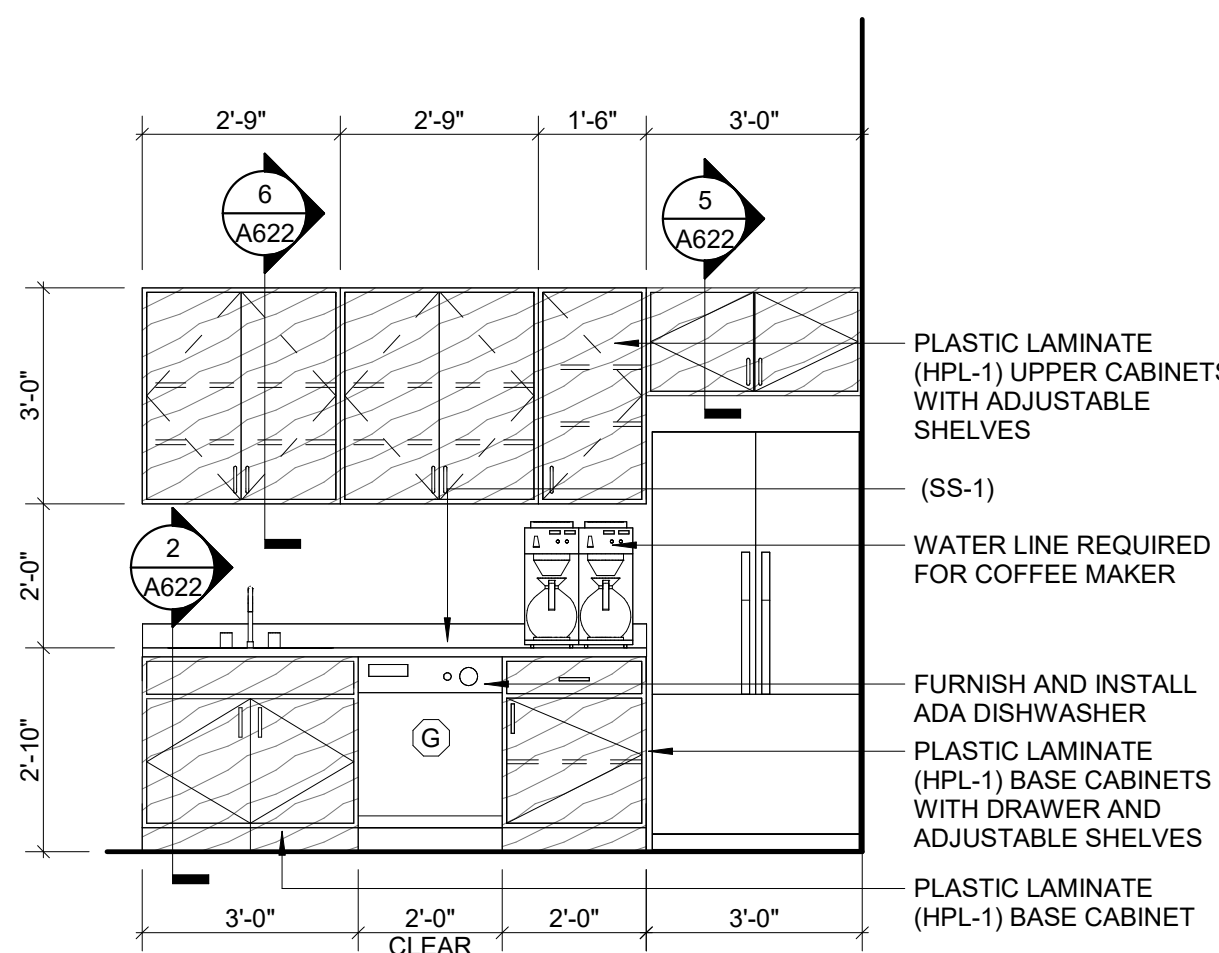
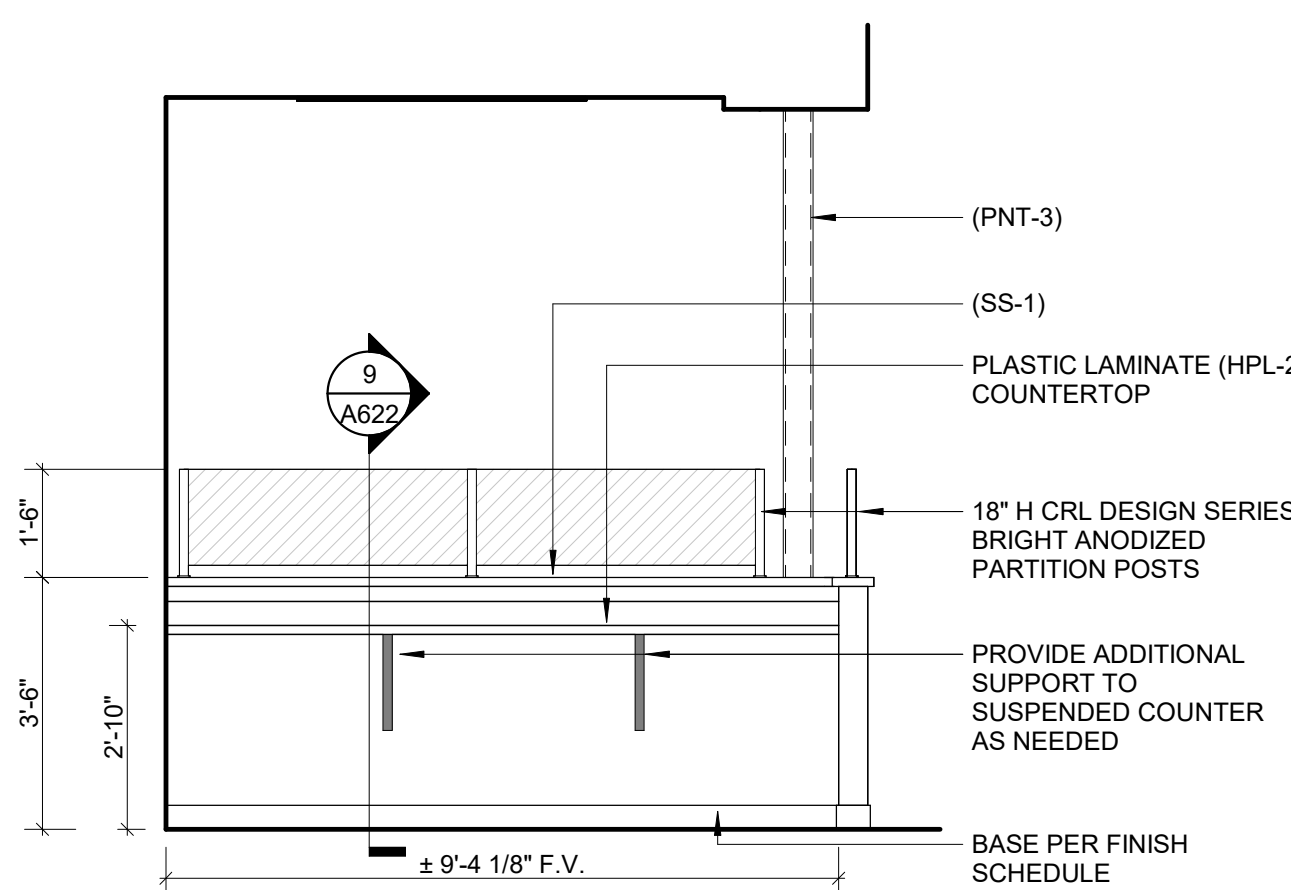
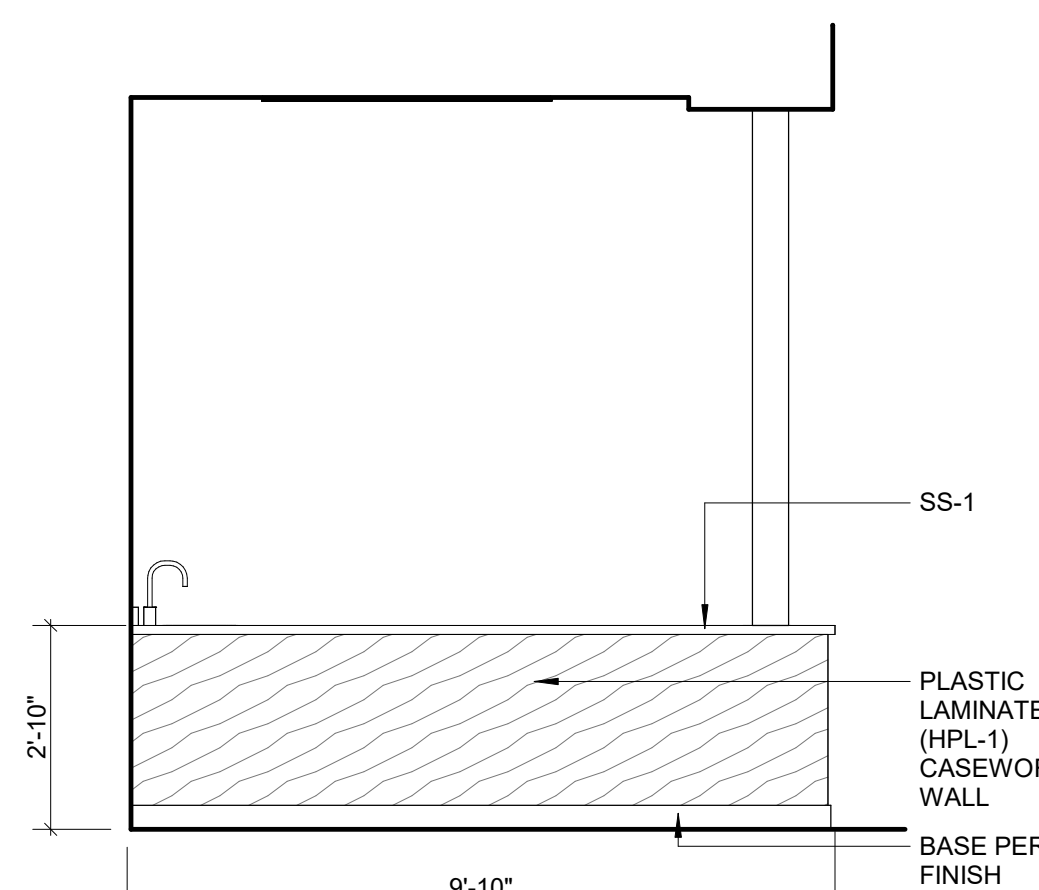
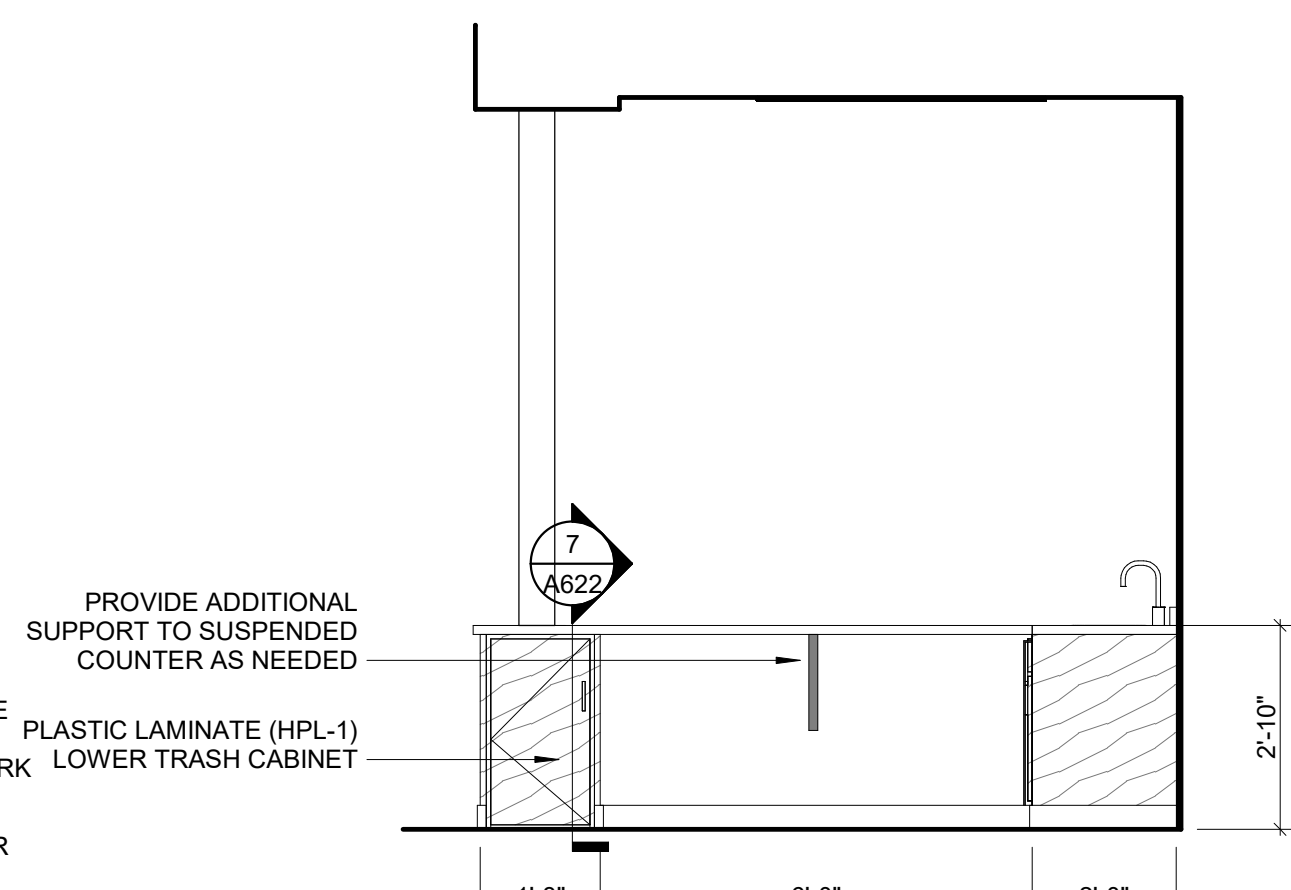
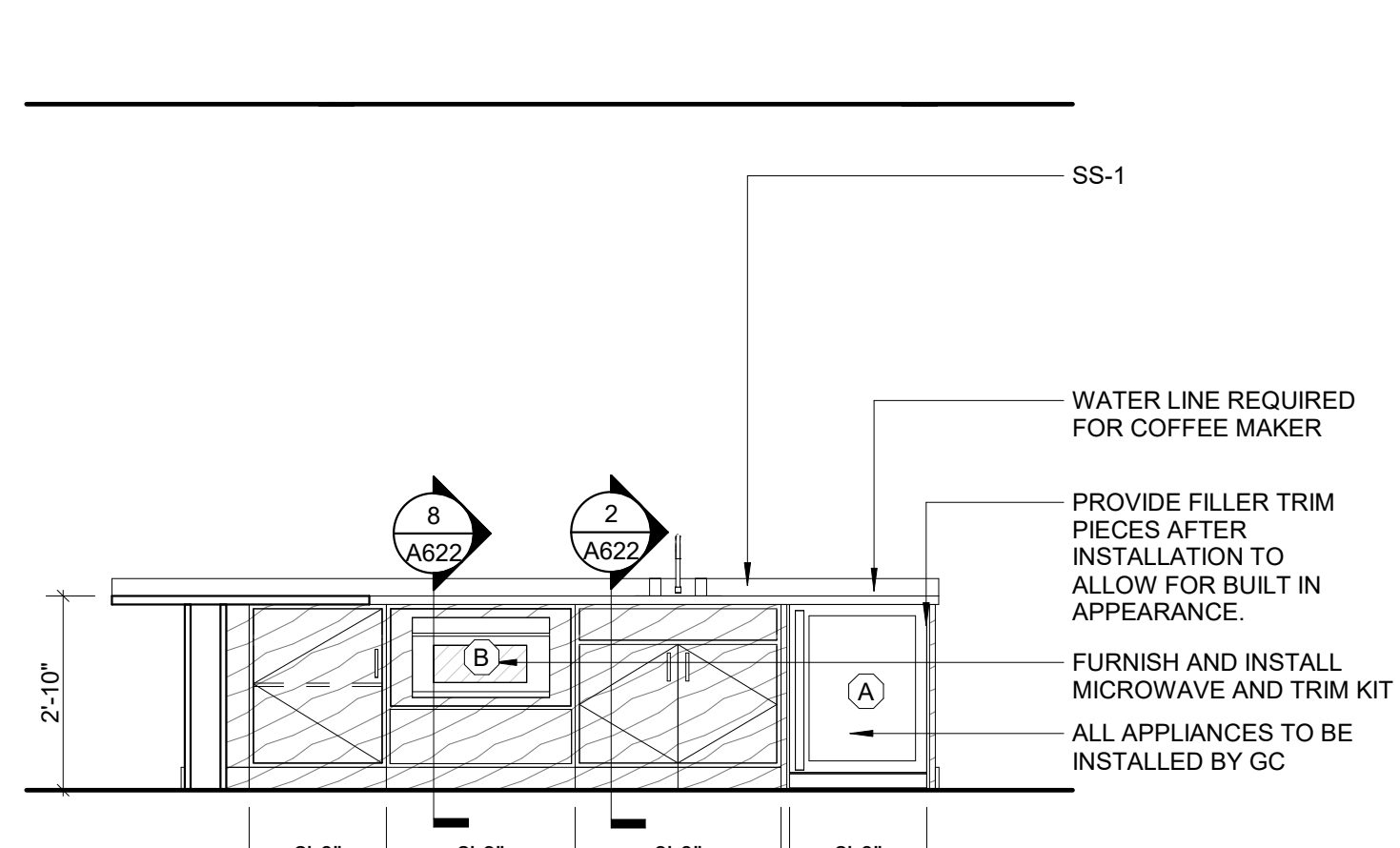
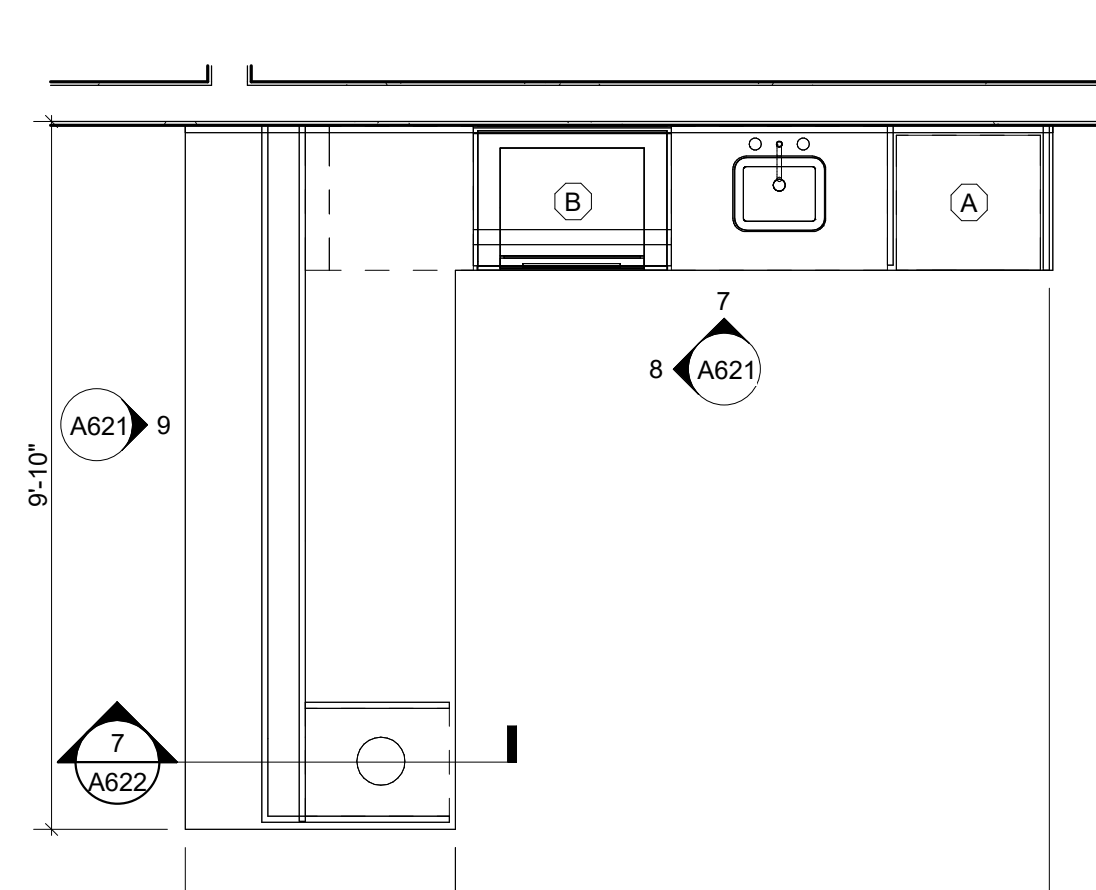
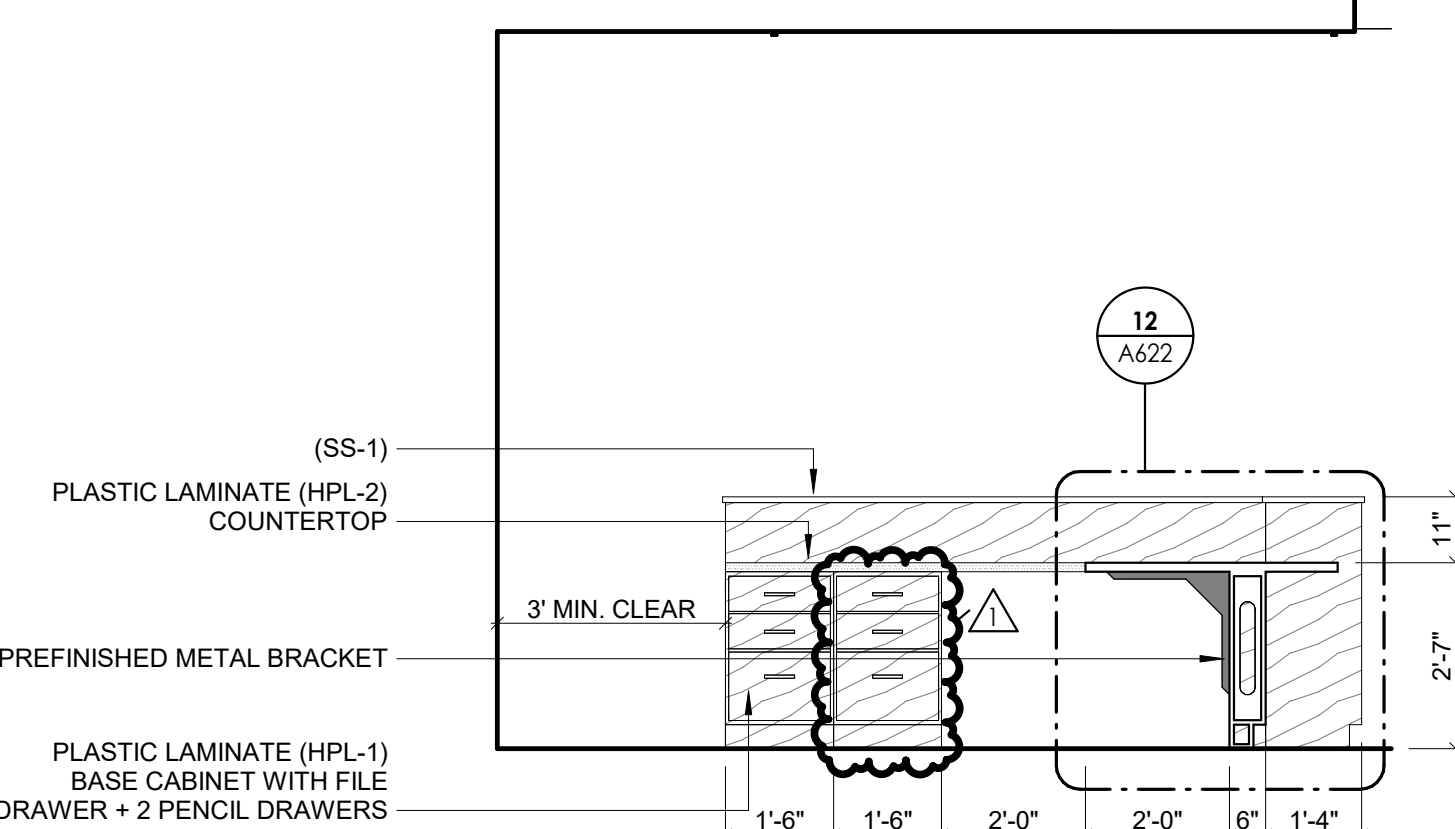
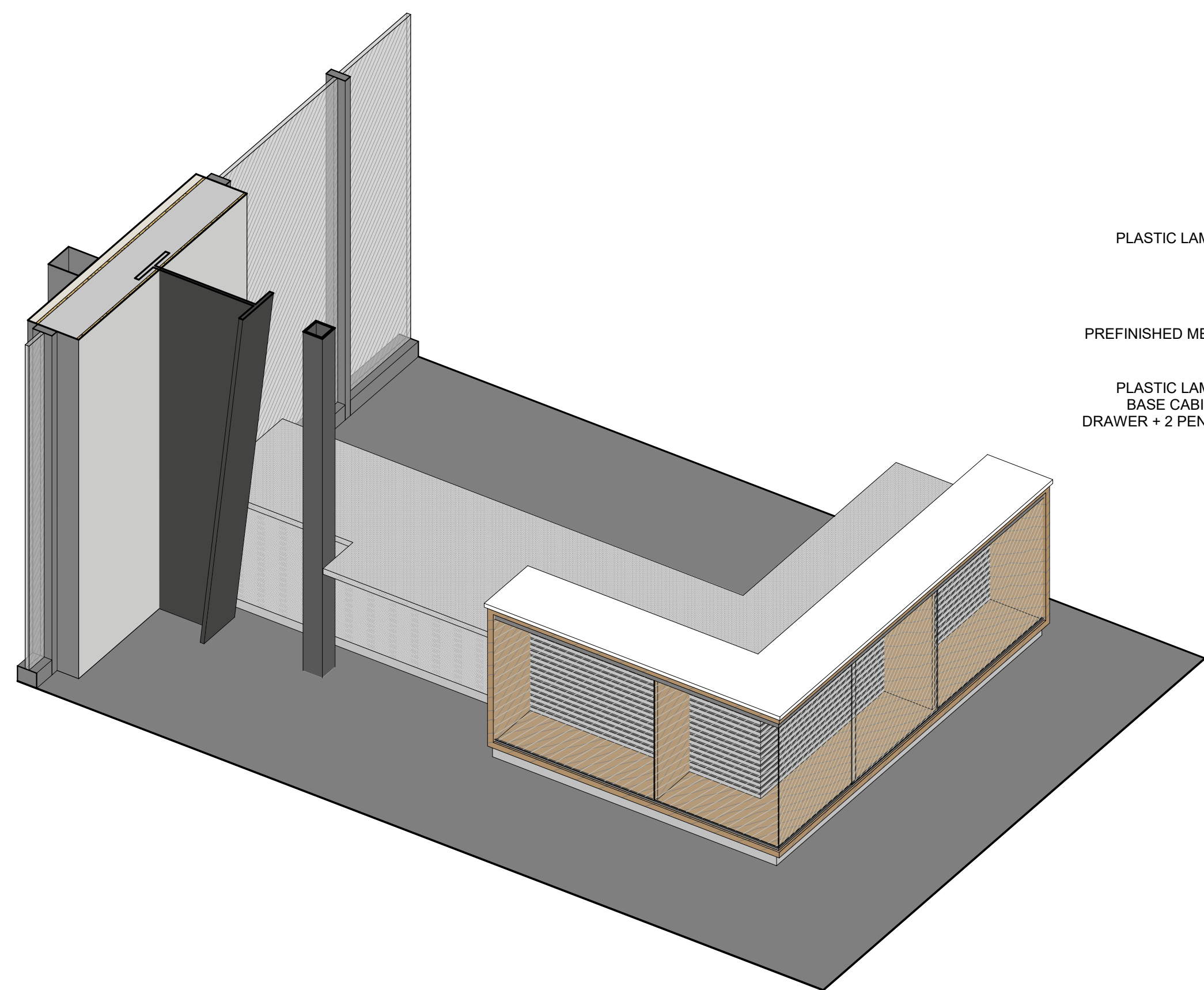
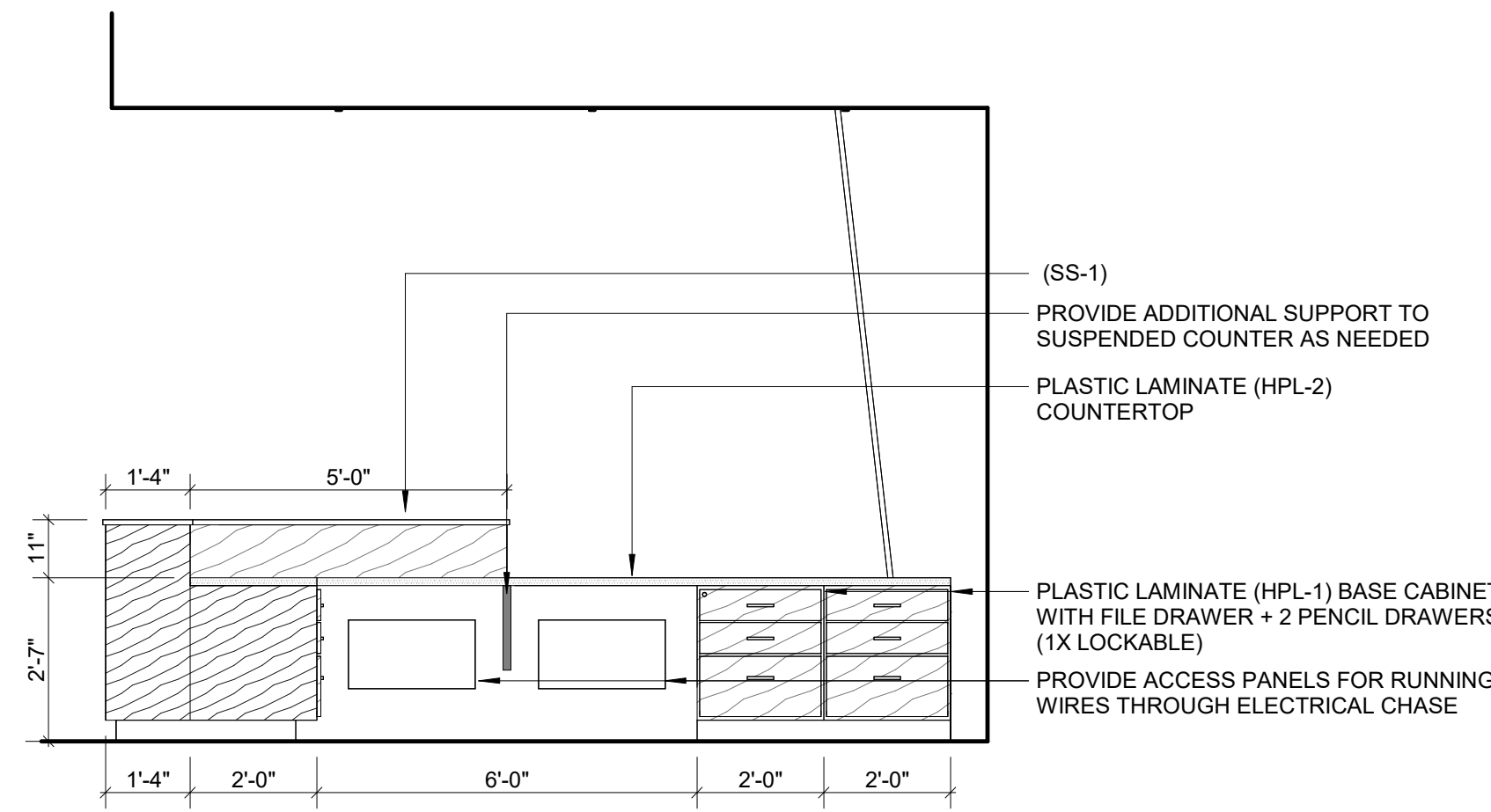
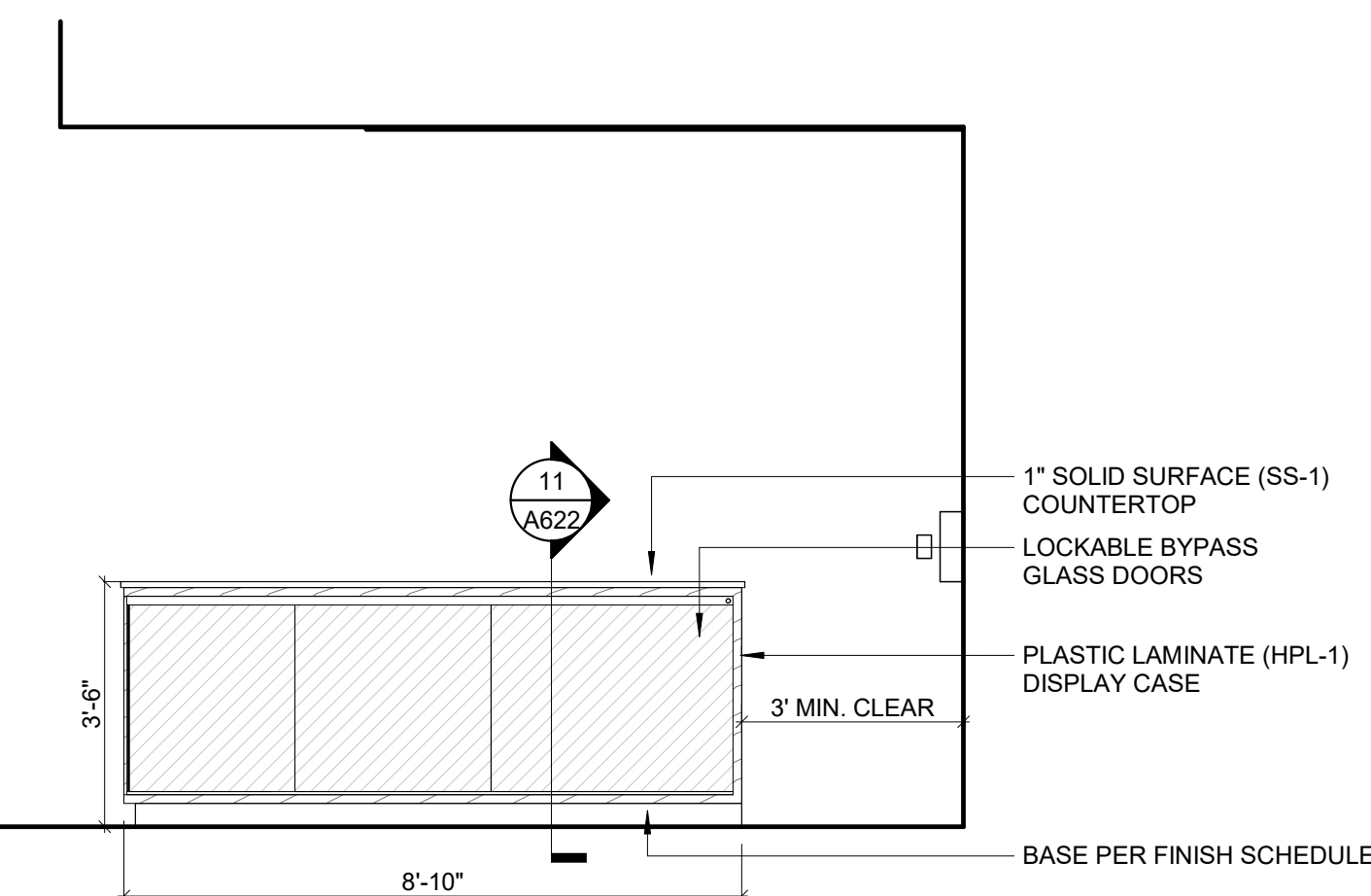
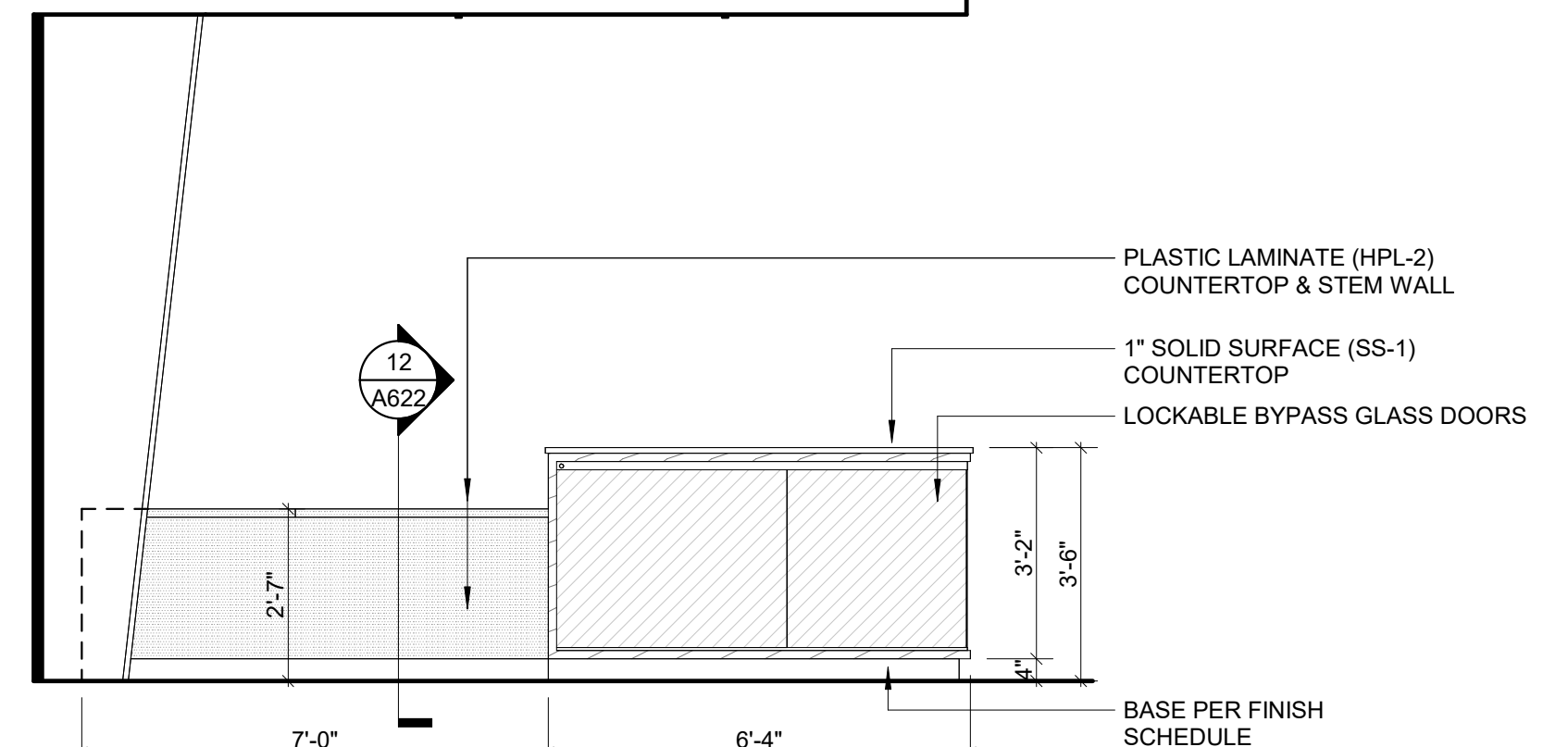
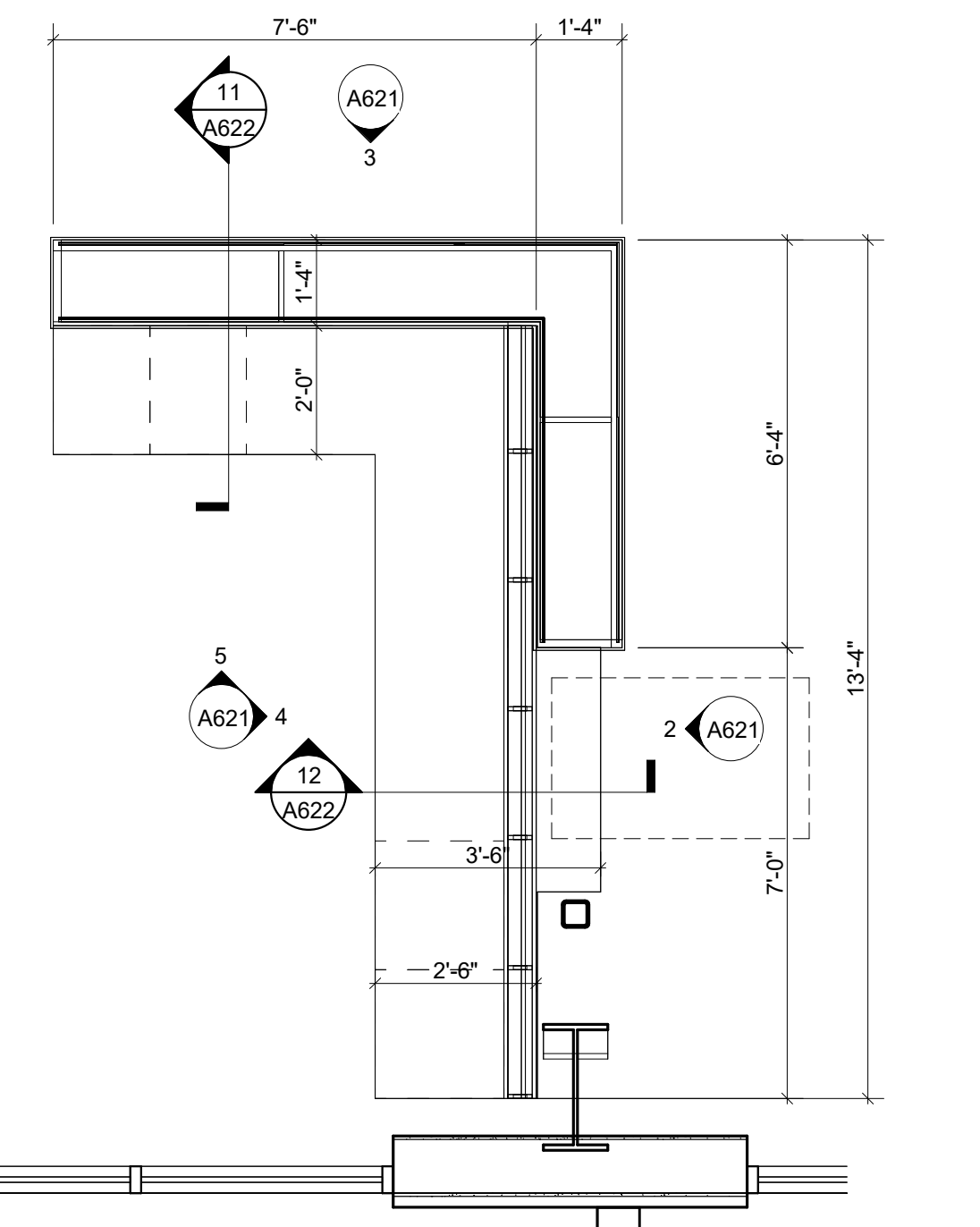
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FINISH FLOOR PLANS

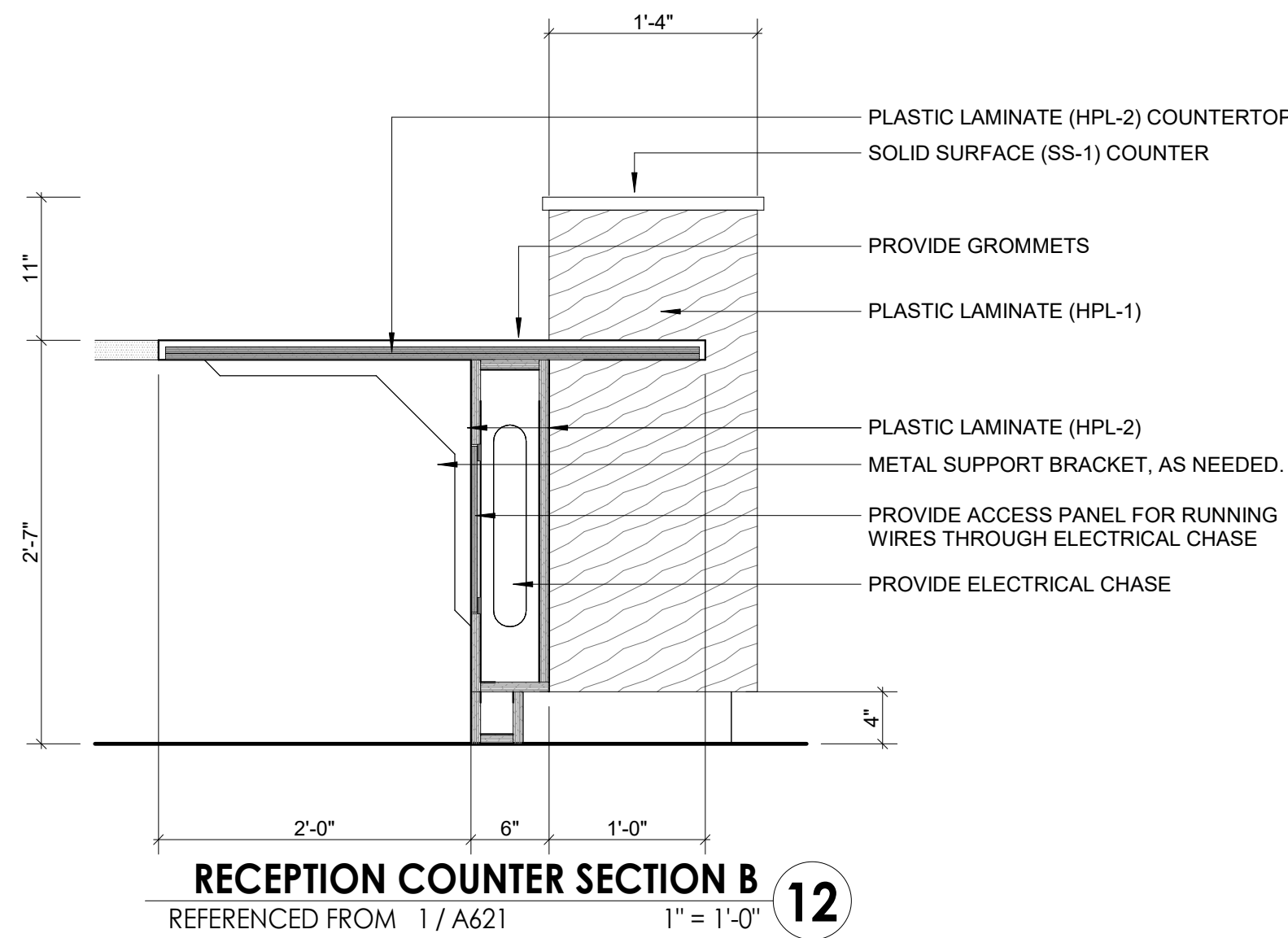
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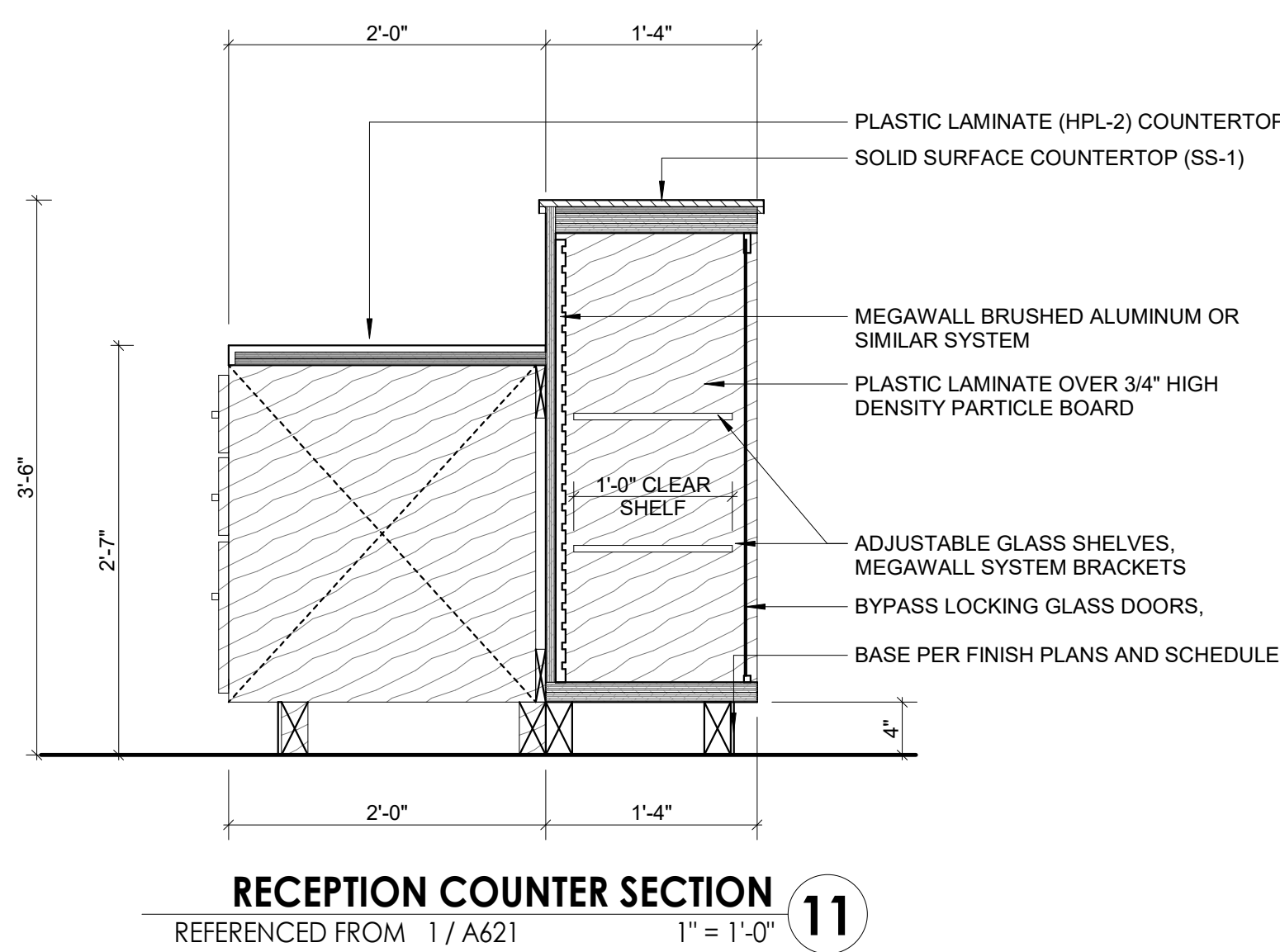
APPLIANCE SCHEDULE						
Item Name	Room	Electrical Required	Plumbing Required	Basis of Design Model	Comments	
UNDER COUNTER REFRIGERATOR	108, 220	YES	NO	Summit AL57G 23 5/8"	ADA	
MICROWAVE	108, 214	YES	NO	Sharp S402470AS7	24" Hidden Controls	
WASHER	117, 119	YES	YES	SWNMN2SP11STW01	Speed Queen Commercial	
DRYER	117, 119	YES	NO	SDEMNRGS173TW01	Speed Queen Commercial	
ICE MAKER	117	YES	YES	IY10500A/D570	Manitowoc 550 lb	
REFRIGERATOR/FREEZER	214	YES	YES	FRIGIDAIRE PROFESSIONAL PRFG2383AF	ADA	
DISHWASHER	214	YES	YES	BOSCH SGX78B55UC	ADA	

206 OBSERVATION DECK
REFERENCED FROM 2 / A102 3/8" = 1'-0" 16218 FLIGHT PLANNING
REFERENCED FROM 2 / A102 3/8" = 1'-0" 15220 CONFERENCE/CLASSROOM
REFERENCED FROM 2 / A102 3/8" = 1'-0" 14213 WORKROOM
REFERENCED FROM 2 / A102 3/8" = 1'-0" 13214 BREAKROOM
REFERENCED FROM 2 / A102 3/8" = 1'-0" 12STORAGE ROOM CASEWORK
REFERENCED FROM 1 / A102 3/8" = 1'-0" 11112 FLIGHT PLANNING
REFERENCED FROM 1 / A102 3/8" = 1'-0" 10VENDING/COFFEE C
REFERENCED FROM 6 / A621 3/8" = 1'-0" 9VENDING/COFFEE B
REFERENCED FROM 6 / A621 3/8" = 1'-0" 8VENDING/COFFEE A
REFERENCED FROM 6 / A621 3/8" = 1'-0" 7ENLARGED PLAN - VENDING / COFFEE BAR
REFERENCED FROM 1 / A102 3/8" = 1'-0" 6RECEPTION D
REFERENCED FROM 1 / A621 3/8" = 1'-0" 5RECEPTION C
REFERENCED FROM 1 / A621 3/8" = 1'-0" 4RECEPTION B
REFERENCED FROM 1 / A621 3/8" = 1'-0" 3RECEPTION A
REFERENCED FROM 1 / A621 3/8" = 1'-0" 2ENLARGED PLAN - RECEPTION DESK
REFERENCED FROM 1 / A102 3/8" = 1'-0" 1

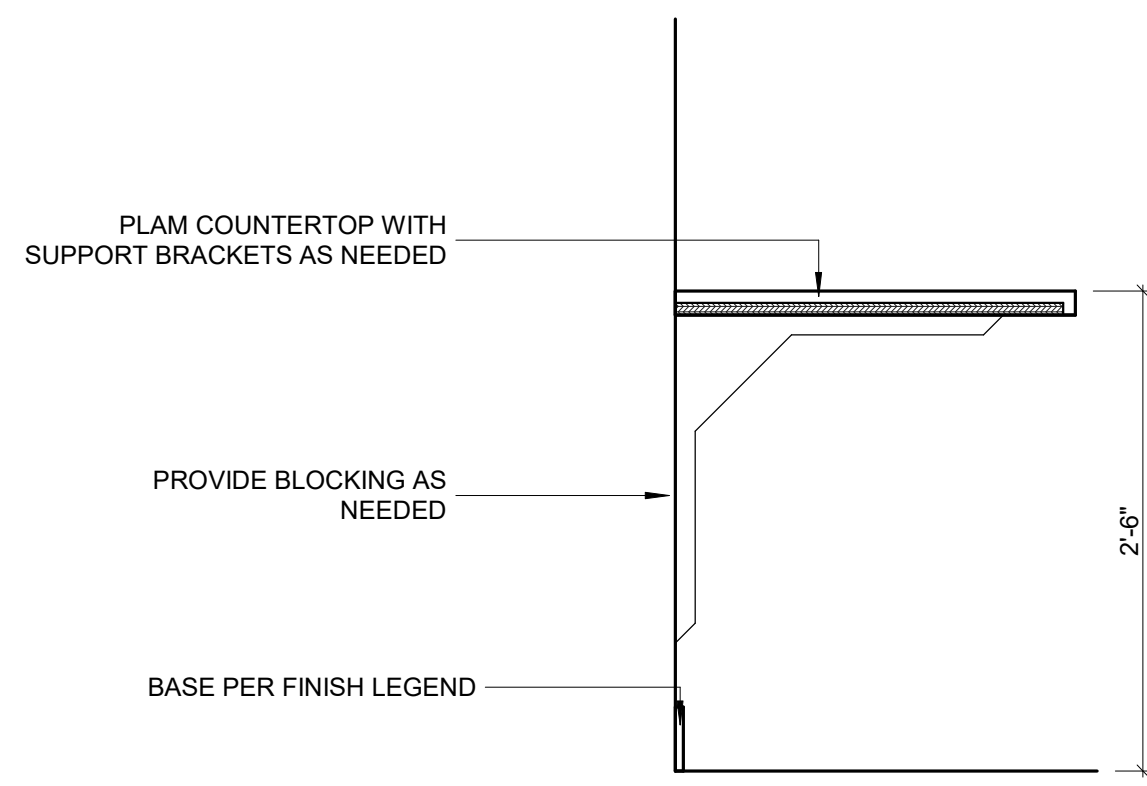
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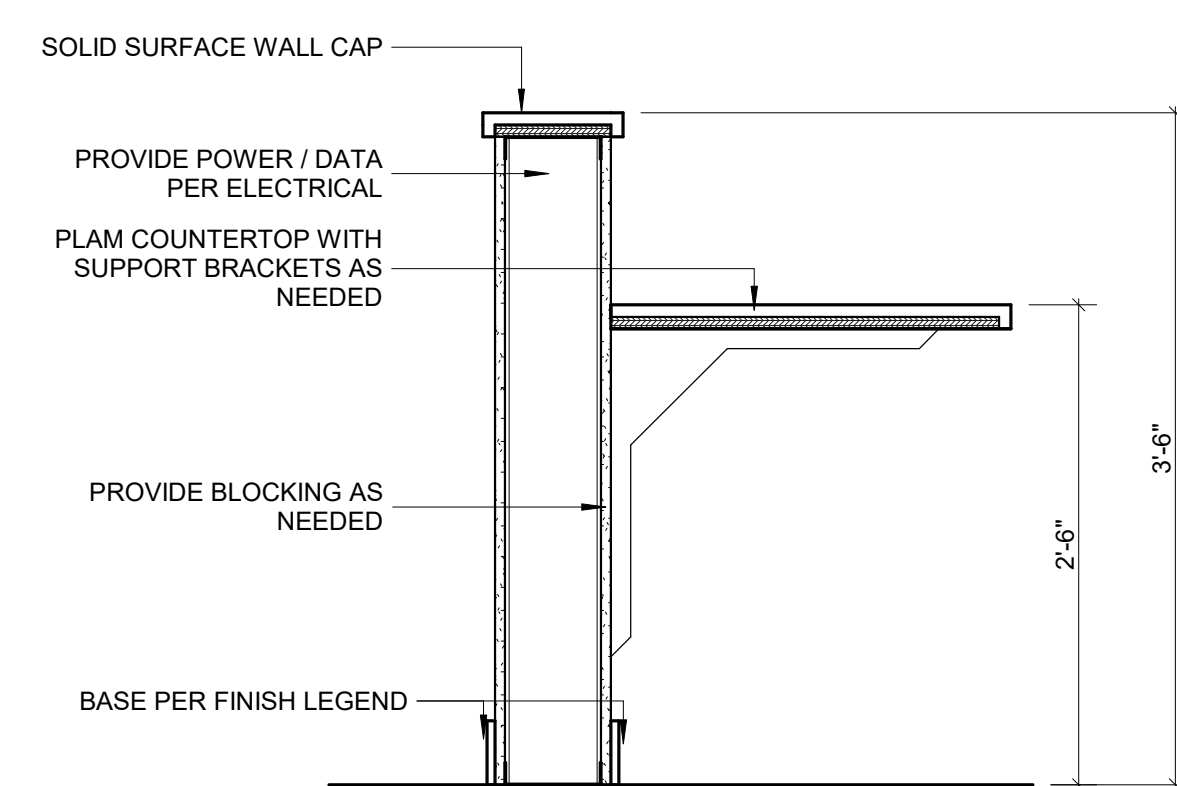
RECEPTION COUNTER SECTION B
REFERENCED FROM 1 / A621 1" = 1'-0" 12



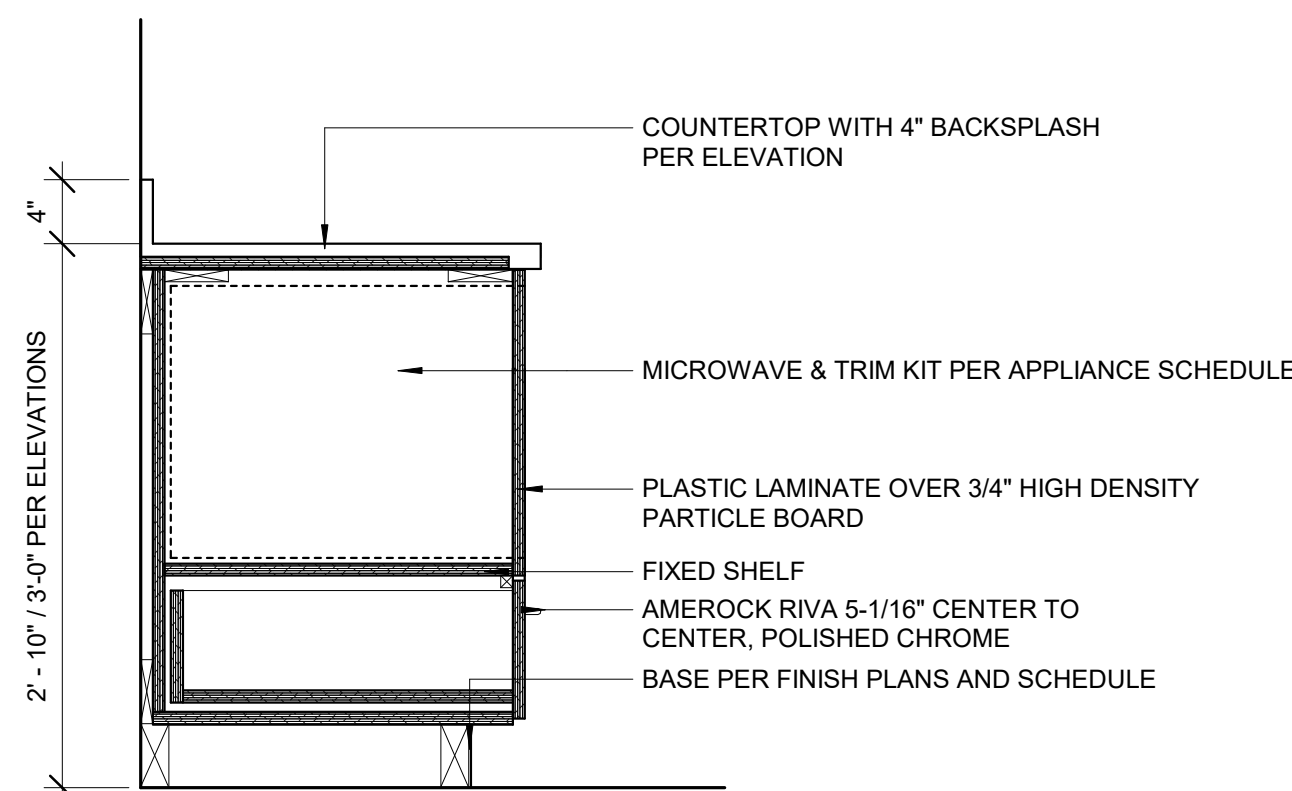
RECEPTION COUNTER SECTION 11
REFERENCED FROM 1 / A621 1" = 1'-0" 11



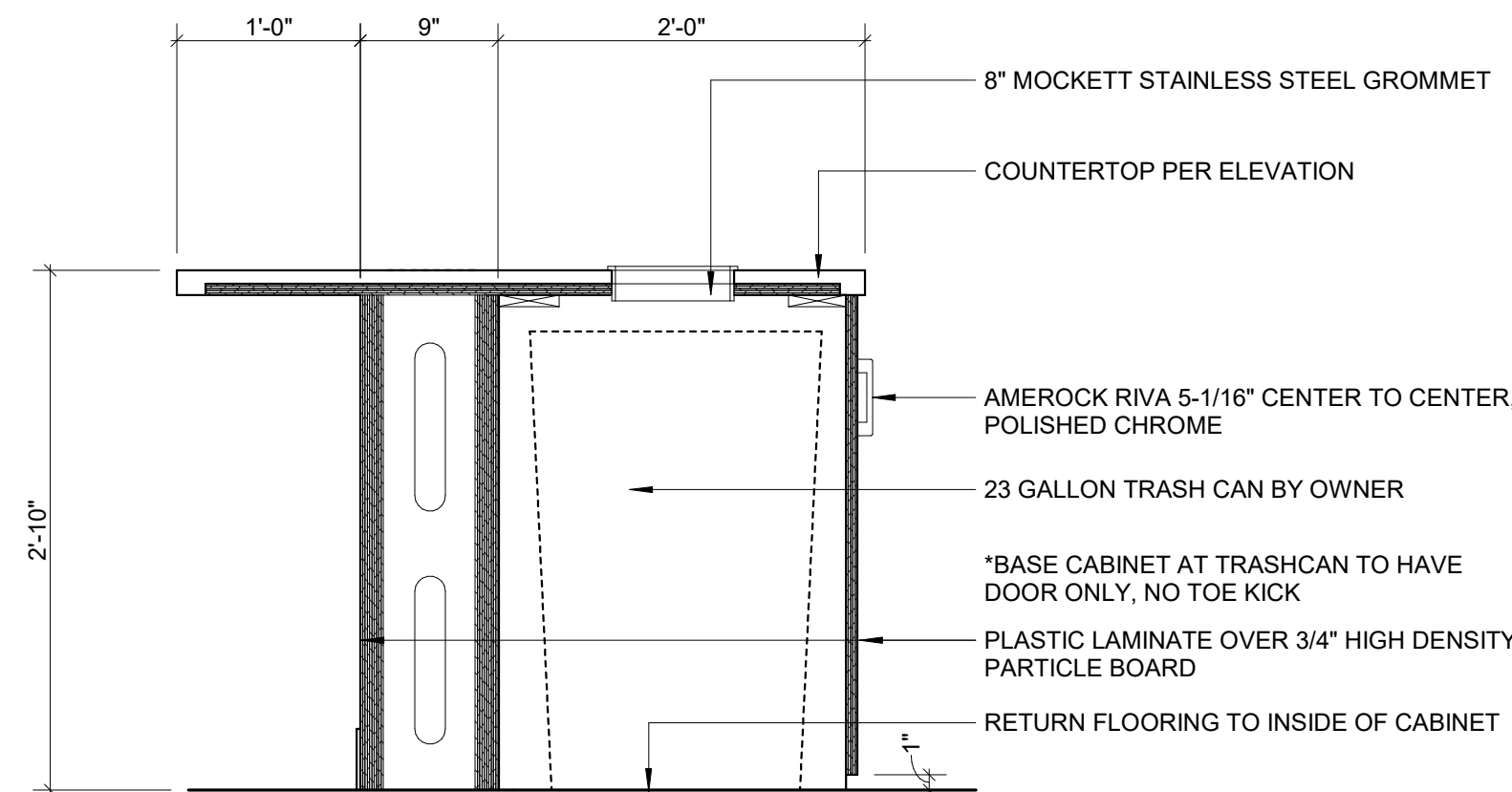
DETAIL - WALL MOUNTED COUNTER 10
1" = 1'-0" 10



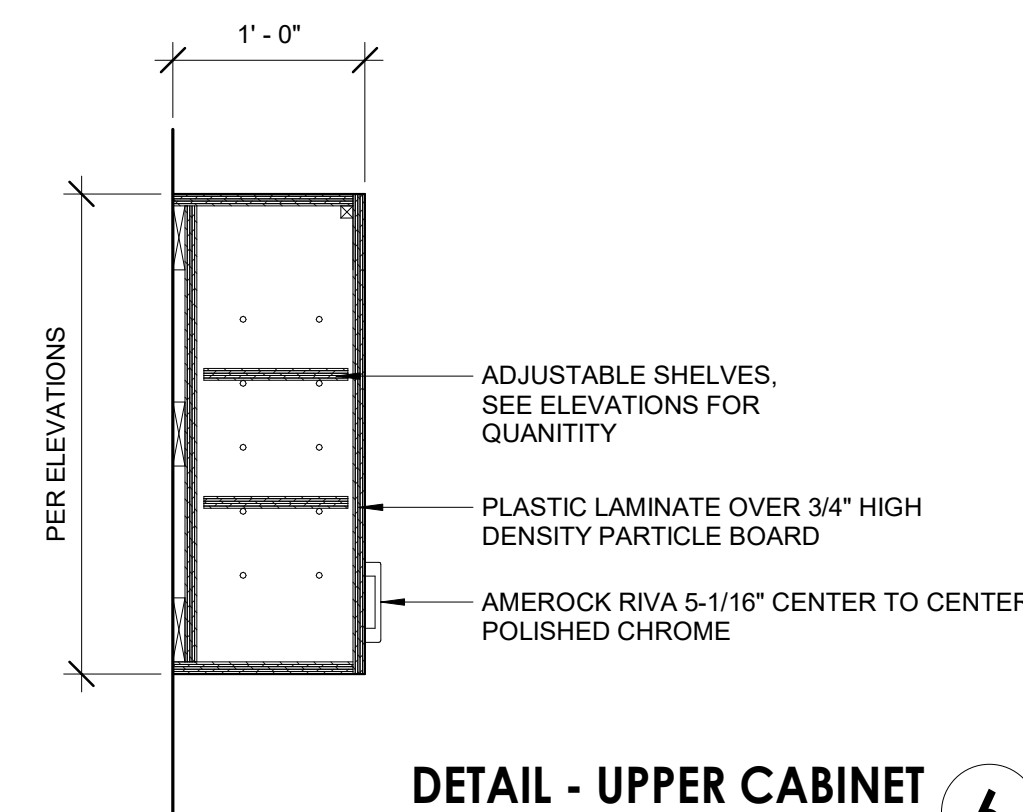
DETAIL - COUNTER AT LOW WALL 9
1" = 1'-0" 9



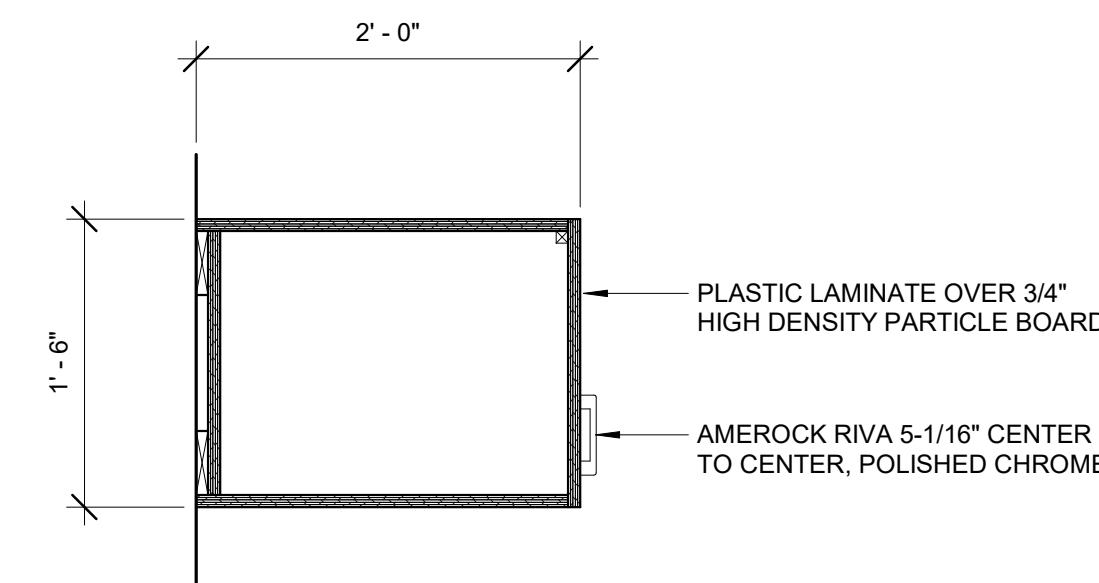
DETAIL - PLAM BASE MICROWAVE CABINET 8
1" = 1'-0" 8



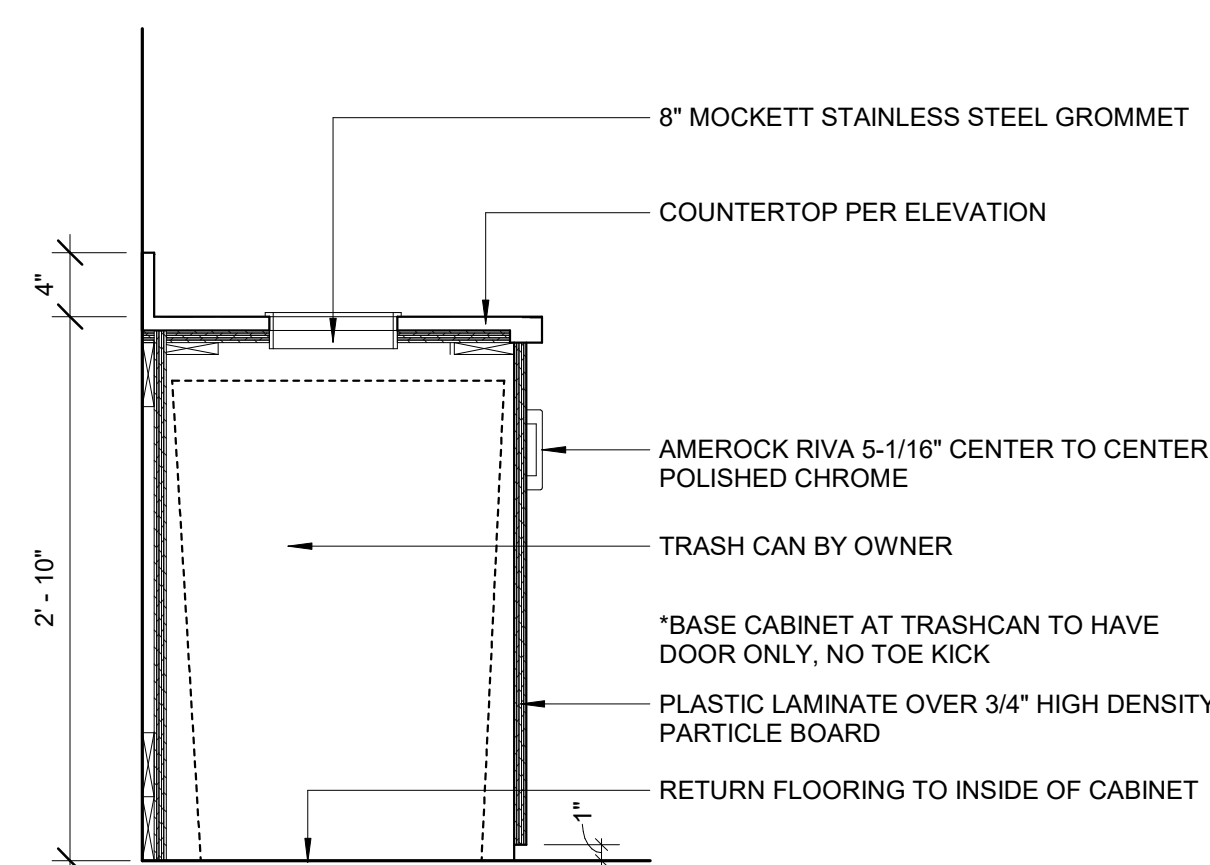
DETAIL - BASE CABINET AT TRASH AT COFFEE BAR 7
1" = 1'-0" 7



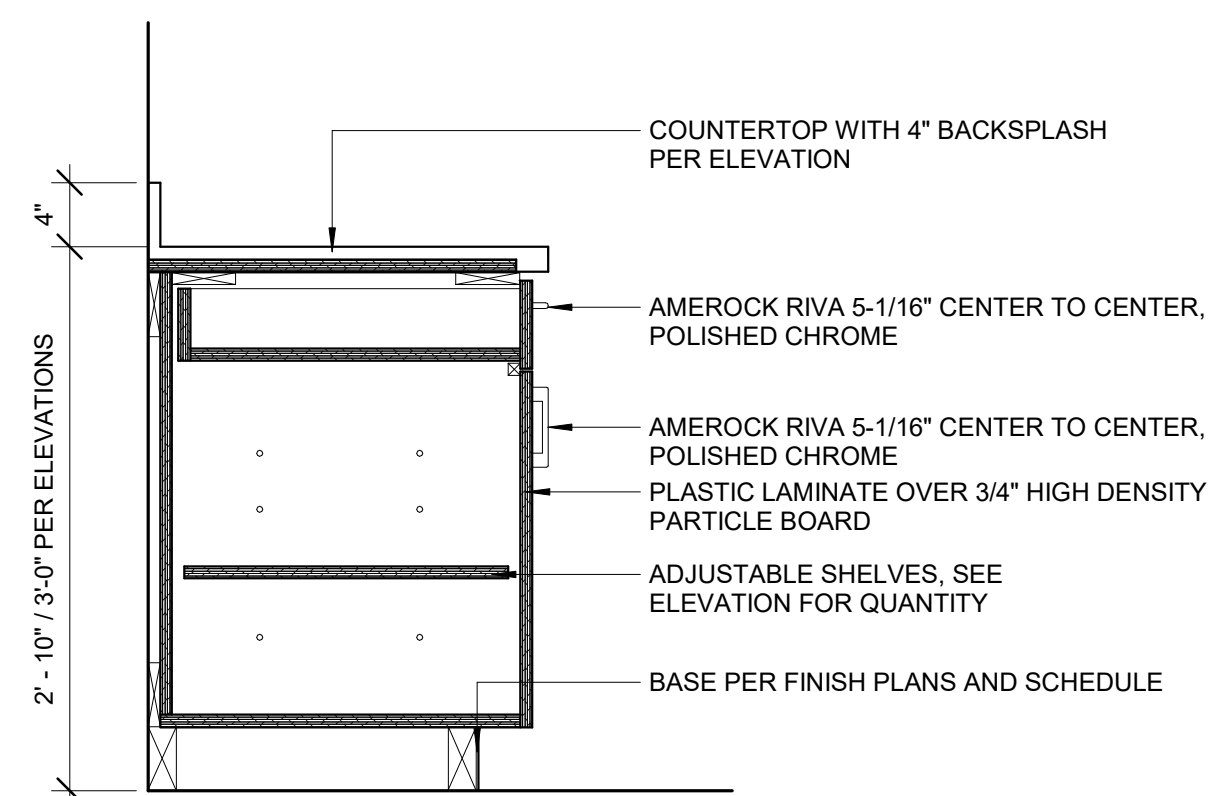
DETAIL - UPPER CABINET 6
1" = 1'-0" 6



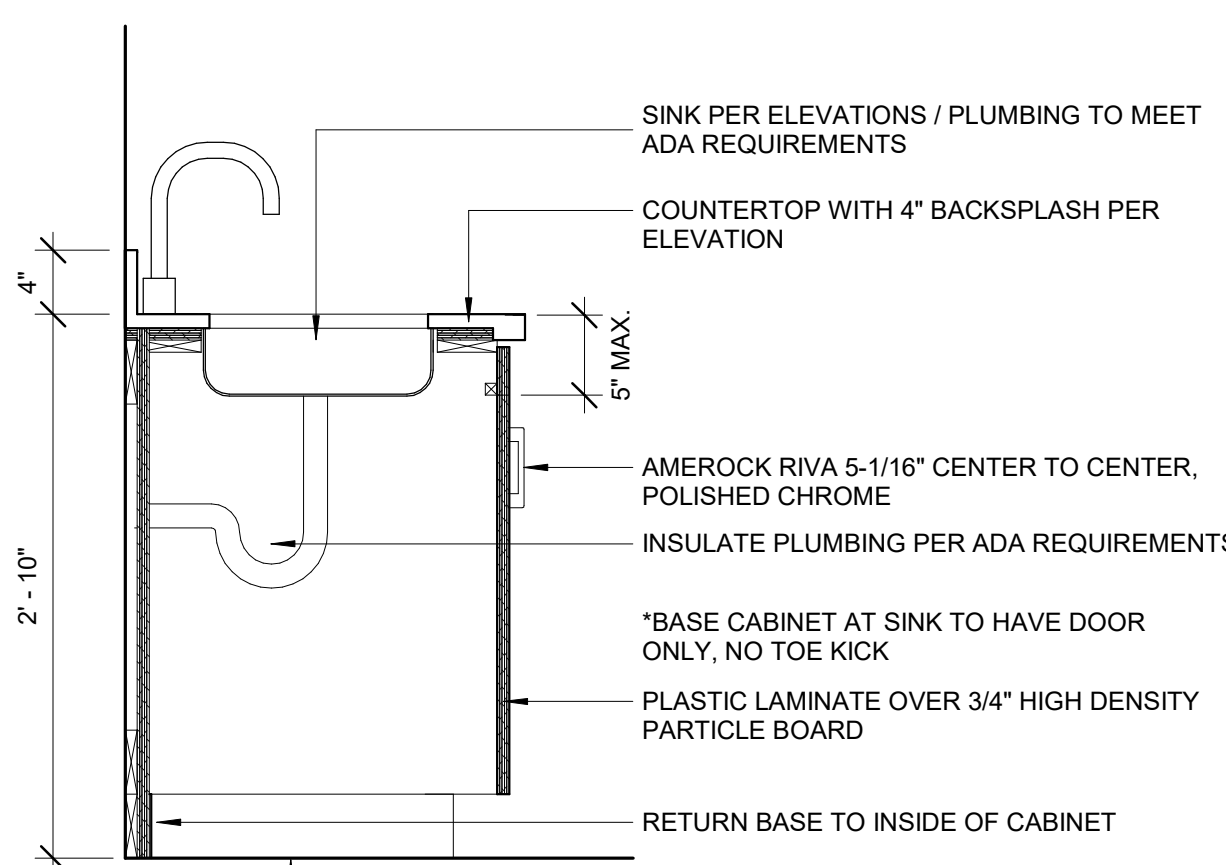
DETAIL - PLAM UPPER CABINET AT FRIDGE 5
1" = 1'-0" 5



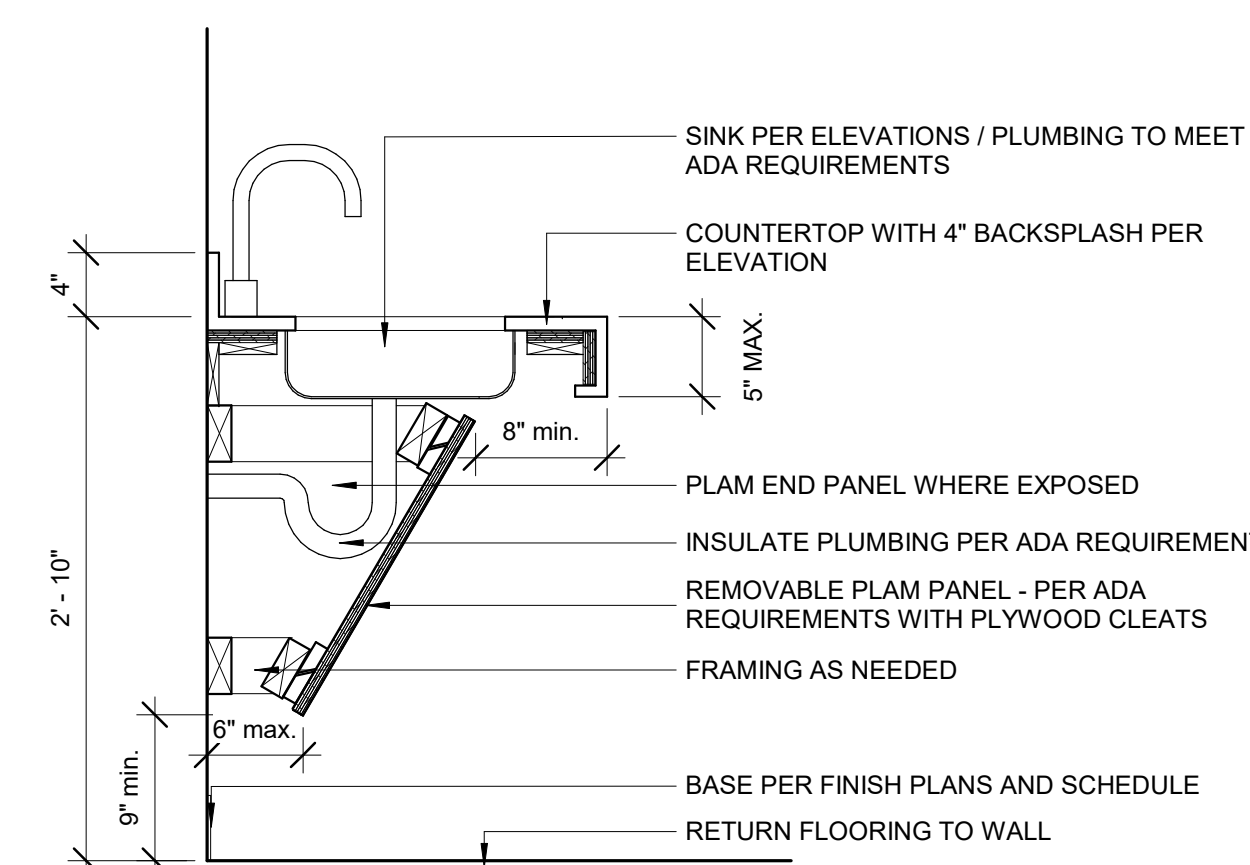
DETAIL - BASE CABINET AT TRASH 4
1" = 1'-0" 4



DETAIL - PLAM BASE CABINET 3
1" = 1'-0" 3



DETAIL - BASE CABINET AT SINK 2
1" = 1'-0" 2



DETAIL - APRON AT SINK 1
1" = 1'-0" 1



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2219
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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SHEET TITLE

CASEWORK DETAILS

A622

SHEET 080 OF 131

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
GENERAL				
CONDUCT WEEKLY VISUAL OBSERVATIONS OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND PREPARE WEEKLY REPORTS OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-CONFORMING ITEMS		X		
EARTHWORK				
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		ALL FOOTING AND PILE CAP EXCAVATIONS SHALL BE OBSERVED AND APPROVED PRIOR TO CONCRETE PLACEMENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		TEST EACH SOURCE
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES, IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
DURING PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		
OBSERVE PROOF ROLLING OF SUBGRADE PRIOR TO FILL PLACEMENT				COORDINATE FREQUENCY WITH GEOTECHNICAL REQUIREMENTS
TESTING AND EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL AS WORK PROGRESSES		X		ONE DENSITY TEST FOR EACH LIFT, DAYS OPERATION, OR 5000 SQ. FT. OF FILL AREA
INSPECT VAPOR RETARDER FOR CONFORMANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS		X		
METAL DECK				
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	X			
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X			
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X		
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILLS CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		X		
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	X			
OBSERVE WELDING PROCEDURE SPECIFICATIONS (WPS), MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES, MATERIAL IDENTIFICATION (TYPE/GRADE), AND WELDING EQUIPMENT TO BE USED.		X		
OBSERVE USE OF QUALIFIED WELDERS, CONTROL AND HANDLING OF WELDING CONSUMABLES, ENVIRONMENTS CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE), AND WPS FOLLOWED		X		
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE LAP, AND PERIMETER WELDS		X		
VERIFY WELDS MEET VISUAL INSPECTION CRITERIA		X		
VERIFY REPAIR ACTIVITIES AS APPLICABLE		X		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X			
OBSERVE MANUFACTURER INSTALLATION INSTRUCTIONS, PROPER TOOLS, AND PROPER STORAGE FOR MECHANICAL FASTENERS		X		
VERIFY FASTENERS POSITIONED AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS		X		
VERIFY SPACING, TYPE, AND INSTALLATION OF SUPPORT, SIDE LAP, AND PERIMETER FASTENERS		X		
VERIFY REPAIR ACTIVITIES AS APPLICABLE		X		
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X			

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
CONCRETE & REINFORCING STEEL				
VISIT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT PRIOR TO CLOSING OF FORMS AND ARRIVAL OF CONCRETE TO THE JOB-SITE		×	IBC: 1909.4 ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	
REINFORCING BAR WELDINGS:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		×	AWS D14 ACI 318: 26.6.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		×		
c. INSPECT ALL OTHER WELDS	×			
OBSERVE & VERIFY PLACEMENT OF EMBEDDED BOLTS & RODS PRIOR TO CONCRETE PLACEMENT	×			
INSPECT ANCHORS CAST IN CONCRETE		×	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	×		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		×	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED MIX DESIGN		×	IBC: 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	×		IBC: 1908.10 ASTM: C172, C31 ACI 318: 26.5, 26.12	ADDITIONAL CYLINDERS SHALL BE MADE AS NEEDED FOR EARLY FORM REMOVAL. NOTE: TWO 6X12 OR 4X8 CYLINDERS ARE REQUIRED FOR AN ACCEPTABLE TEST.
SAMPLE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT 7 DAYS AND TWO AT 28 DAYS. THE 5TH CYLINDER SHALL BE HELD IN RESERVE	×			OBTAIN ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE STRENGTH TESTS FOR EACH CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
PERFORM CONCRETE STRENGTH TESTING		×		
MAINTAIN A SPREADSHEET SHOWING DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS, AND INDICATE RUNNING AVERAGE	×		ACI 318 PAR. 6.2	
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	×		IBC: 1908.6, 1908.7, 1908.8 ACI 318: 26.5	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		×	IBC: 1908.9 ACI 318: 26.5.3-26.5.5	
VERIFY THAT THE NECESSARY DESIGN STRENGTH HAS BEEN REACHED PRIOR TO THE REMOVAL OF FORMS		×		
INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES	×		ACI 318: 26.10	
b. GROUTING OF BONDED PRESTRESSING TENDONS	×			
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS AND CONNECTIONS		×	ACI 318: CH. 26.9	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		×	ACI 318: CH. 26.11.2	
INSPECT CONCRETE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		×	ACI 318: 26.11.1, 209	
VERIFY CORRECT MATERIAL USED, INCLUDING THE USE OF A706 IN WELDED SPICES, IF ANY		×	AWS: D14	
VERIFY FABRICATION QUALITY CONTROL PROCEDURES FOR PRECAST CONCRETE MANUFACTURER		×		VERIFY PLANT IS PCI CERTIFIED
MEASURE FLOOR FLATNESS AND LEVELNESS AS DIRECTED		×		
FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MODE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT FOR:			ACI 318: CH. 26.13.1.3	
a. INSTALLATION OF THE EMBEDDED PARTS	×			
b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	×		ACI 550.5	
c. COMPLETION OF CONNECTIONS IN THE FIELD	×			
MEASURE FLOOR FLATNESS AND LEVELNESS AS DIRECTED		×	ACI 318: CH. 26.13.1.3	

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
STRUCTURAL STEEL				
VISIT FABRICATION SHOP TO OBSERVE FABRICATION PROCEDURES		X		ONLY ONE INSPECTION IS REQUIRED UNLESS ON-SITE EVENTS INDICATE FURTHER INSPECTIONS ARE NECESSARY
VERIFY FABRICATOR CERTIFICATION		X		
VERIFY CORRECT STRUCTURAL STEEL MATERIAL DELIVERED TO JOB SITE		X		
VERIFY WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X			
VERIFY MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X			
VERIFY MATERIAL IDENTIFICATIONS (TYPE/GRADE)		X		
OBSERVE WELDER IDENTIFICATION SYSTEM		X		THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
OBSERVE FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) FOR JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)		X		
OBSERVE CONFIGURATION AND FINISH OF ACCESS HOLES		X		
OBSERVE FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)		X		
OBSERVE USE OF QUALIFIED WELDERS		X		
OBSERVE CONTROL AND HANDLING OF WELDING CONSUMABLES, (PACKAGING AND EXPOSURE CONTROL)		X		
VERIFY NO WELDING OVER CRACKED TACK WELDS		X		
OBSERVE ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE)		X		
VERIFY WPS FOLLOWED (WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED [MIN/MAX], PROPER POSITION [F, V, H, OH])		X		
OBSERVE WELDING TECHNIQUES (INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITS AND EACH PASS MEETS QUALITY REQUIREMENTS)		X		
VISUALLY INSPECT ALL WELDS FOR SIZE, LENGTH, AND LOCATION OF WELD. PROVIDE CONTINUOUS INSPECTION ON ALL FULL OR PARTIAL PENETRATION WELDS AND FILLET WELDS GREATER THAN 5/16"	X			
PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS	X			
VERIFY NO ARC STRIKES EXIST	X			
VISUALLY INSPECT K-AREA, WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, FOR CRACKS WITHIN 3' OF THE WELD	X			
VERIFY REPAIR ACTIVITY ACCEPTABILITY AS APPLICABLE	X			
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINTS OR MEMBERS	X			
PERFORM MAGNETIC PARTICLE TESTING ON 20% OF ALL PARTIAL PENETRATION AND FILLET WELDS GREATER THAN 5/16"		X		
PERFORM MAGNETIC PARTICLE TESTING OR PENETRANT TESTING THERMALLY CUT SURFACES OF ACCESS HOLES WHERE THE FLANGE THICKNESS EXCEEDS 2 IN. FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. FOR BUILT-UP SHAPES		X		ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF THE SIZE OR LOCATION
VERIFY MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS ARE AVAILABLE	X			
VERIFY FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		X		
VERIFY PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)		X		
VERIFY PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X		
VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		X		
CONFIRM PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		X		
VERIFY PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		X		
VERIFY FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		X		
VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		X		
VERIFY FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		X		
VERIFY FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RSCC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		X		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X		
OBSERVE AND TEST ALL FIELD APPLIED HEADED STUDS	X			VERIFY CORRECT NUMBER, LOCATION, AND WELDING
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X			

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
MASONRY - QUALITY ASSURANCE LEVEL B				
VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 15.8.1.6.3 FOR SELF-CONSOLIDATING GROUT				
VERIFY 1" AND 1 1/2" IN ACCORDANCE WITH SPECIFICATION ARTICLE 14.9 PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED				
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		×	ACI 530.1: ART. 1.5	
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		×	ACI 530.1: ART. 2.1, 2.8A, 2.8C	
b. CONSTRUCTION OF MORTAR JOINTS		×	ACI 530.1: ART. 3.3B	
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		×	ACI 530.1: ART. 2.4B, 2.4H	
d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		×	ACI 530.1: ART. 3.4, 3.6A	
e. PRESTRESSING TECHNIQUE		×	ACI 530.1: ART. 3.6B	
f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	×	×	ACI 530.1: ART. 2.1C	CONTINUOUS FOR THE FIRST 5,000 SQUARE FEET, PERIODIC THEREAFTER
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		×	ACI 530.1: ART. 3.2D, 3.2F	
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		×	ACI 530: SEC. 1.16 ACI 530.1: ART. 2.4, 3.6	
c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES		×	ACI 530: SEC. 1.16 ACI 530.1: ART. 3.2E, 3.4, 3.6A	
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		×	ACI 530.1: ART. 2.6B, 2.6G.1.9	
e. CONSTRUCTION OF MORTAR JOINTS		×	ACI 530.1: ART. 3.3B	
VERIFY DURING CONSTRUCTION:				
a. MATERIALS AND PROCEDURES WITH APPROVED SUBMITTALS		×	ACI 530.1: ART. 1.5	
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		×	ACI 530.1: ART. 3.3B	
c. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		×	ACI 530.1: ART. 3.3F	
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		×	ACI 530: SEC. 1.16.4.3, 1.17.1, 1.2.16a, 6.2.1.6.3.1	
e. WELDING OF REINFORCEMENT	×		ACI 530: SEC.6.1.6.1.2	
f. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		×	ACI 530.1: ART. 1.8C, 1.8D	
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	×		ACI 530.1: ART. 3.6B	
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	×		ACI 530.1: ART. 3.5, 3.6C	
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	×	×	ACI 530.1: ART. 3.3B B.9.3.3 F.1b	CONTINUOUS FOR THE FIRST 5,000 SQUARE FEET, PERIODIC THEREAFTER
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		×	ACI 530.1: 1.4B.2.4.3, 1.4B.2.4.3, 1.4B.2.4.3, 1.4B.3, 1.4B.4	

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
COLD-FORMED STEEL				
WHERE TRUSS SPAN IS 80 FEET OF GREATER, VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE		X		IBC 2207.1
VERIFY COMPLIANCE OF COLD-FORMED STEEL STRUCTURAL MEMBERS	X			
VERIFY COMPLIANCE OF CONNECTORS	X			
DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS	X			
VERIFY WELDING PROCEDURE SPECIFICATION AVAILABLE		X		
VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X		
VERIFY MATERIAL IDENTIFICATION (TYPE/GRADE)		X		
CHECK WELDING EQUIPMENT		X		
VERIFY USE OF QUALIFIED WELDERS		X		
VERIFY CONTROL AND HANDLING OF WELDING CONSUMABLES		X		
VERIFY ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		X		
VERIFY WELDING PROCEDURE SPECIFICATIONS FOLLOWED		X		
VERIFY COMPLIANCE OF WELDS	X			
VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	X			
VERIFY REPAIR ACTIVITIES AS APPLICABLE	X			
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED CONNECTIONS	X			
VERIFY MECHANICAL FASTENER MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		X		
VERIFY PROPER TOOLS AVAILABLE FOR MECHANICAL FASTENER INSTALLATION		X		
VERIFY PROPER STORAGE FOR MECHANICAL FASTENERS		X		
VERIFY MECHANICAL FASTENERS ARE POSITIONED AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS		X		
VERIFY COMPLIANCE OF MECHANICAL FASTENERS WITH CONSTRUCTION DOCUMENTS	X			
VERIFY REPAIR ACTIVITIES AS APPLICABLE	X			
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICALLY FASTENED CONNECTIONS	X			
VERIFY COMPLIANCE OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	X			
DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	X			
VERIFY COMPLIANCE OF SHEAR WALL AND DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACINGS, AND HOLD-DOWNS	X			
DOCUMENT ACCEPTANCE OR REJECTION OF SHEAR WALL AND DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS	X			
OBSERVE WELDER IDENTIFICATION SYSTEM FOR LATERAL FORCE-RESISTING SYSTEM PRIOR TO WELDING		X		A SYSTEM MAINTAINED BY THE COMPONENT MANUFACTURER OR INSTALLER, AS APPLICABLE, BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED
OBSERVE FIT-UP OF WELDS (ALIGNMENT, GAPS, CONDITION OF STEEL SURFACES) FOR LATERAL FORCE-RESISTING SYSTEM PRIOR TO WELDING		X		
VERIFY PROPER FASTENERS SELECTED FOR LATERAL FORCE-RESISTING SYSTEM PRIOR TO INSTALLATION		X		
VERIFY PROPER INSTALLATION PROCEDURE SELECTED FOR LATERAL FORCE-RESISTING SYSTEM PRIOR TO INSTALLATION		X		
VERIFY JOINT BROUGHT TIGHT (e.g. CLAMPED) TO AVOID GAPS BETWEEN PILES FOR SCREW CONNECTIONS		X		
VERIFY TOOL ADJUSTED TO AVOID STRIPPED AND OVERDRIVEN FASTENERS FOR SCREW CONNECTIONS		X		
VERIFY INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR POST-INSTALLED CONNECTIONS TO CONCRETE	X			
VERIFY COMPLIANCE OF COLD-FORMED STEEL LATERAL FORCE-RESISTING SYSTEM INSTALLATION	X			
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE-RESISTING SYSTEM	X			



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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DRAWN BY: JER
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SPECIAL
INSPECTIONS

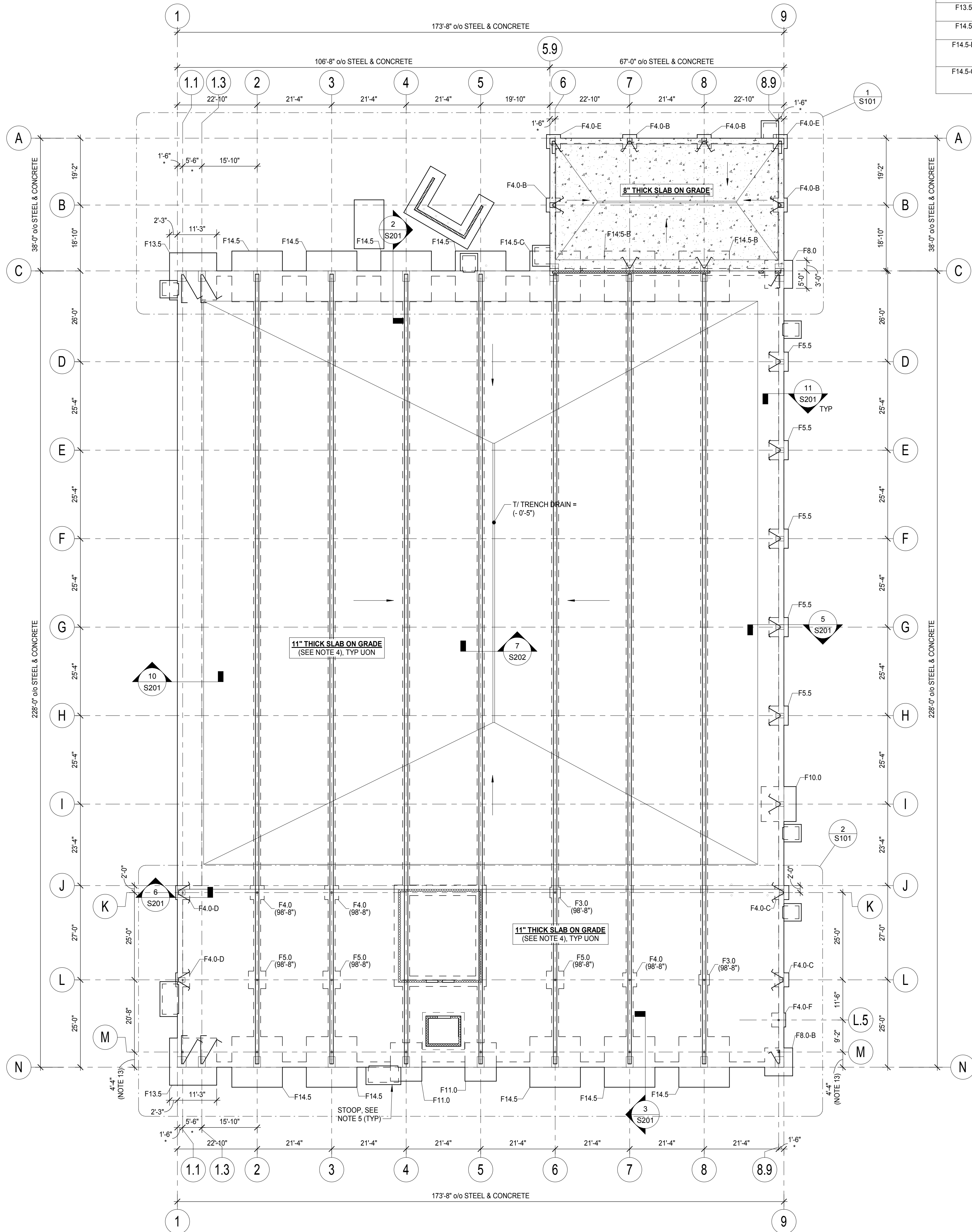
S002

SHEET 084 OF 131



1 FOUNDATION PLAN

SCALE = 1/16" = 1'-0"



FOOTING & PIER SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS	REINFORCING	HAIRPIN	T.O. FTG	PIER TYPE & SIZE (WxD)	PIER REINF	T.O. PIER ELEV	COMMENTS
F3.0	3'-0"	3'-0"	16"	(3) #6 BARS EW BOTTOM	---	99'-8"	---	---	N/A	
F4.0	4'-0"	4'-0"	16"	(4) #6 BARS EW BOTTOM	---	99'-8"	---	---	N/A	
F4.0-B	4'-0"	4'-0"	30"	(5) #5 BARS EW TOP & BOT	#5	99'-0"	A 16"x20"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F4.0-C	4'-0"	4'-0"	30"	(5) #5 BARS EW TOP & BOT	#5	99'-0"	A 16"x16"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F4.0-D	4'-0"	4'-0"	30"	(5) #5 BARS EW TOP & BOT	#5	99'-0"	A 16"x26"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F4.0-E	4'-0"	4'-0"	30"	(5) #5 BARS EW TOP & BOT	#5	99'-0"	B 18"x20"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F4.0-F	4'-0"	4'-0"	30"	(5) #5 BARS EW TOP & BOT	---	99'-0"	---	---	N/A	
F5.0	5'-0"	5'-0"	16"	(5) #6 BARS EW BOTTOM	---	99'-8"	---	---	N/A	
F5.5	5'-6"	5'-6"	30"	(6) #5 BARS EW TOP & BOT	#5	99'-0"	A 16"x28"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F8.0	8'-0"	8'-0"	30"	(9) #5 BARS EW TOP & BOT	#4	99'-0"	E 30"x60"	(8) #6 VERT W/ #4 TIES AT 6" OC FOR SOUTH COL. (4) #6 VERT W/ #4 TIES AT 6" OC FOR NORTH COL. HOOK VERT BARS AT TOP & BOT	100'-0"	
F8.0-B	8'-0"	8'-0"	30"	(9) #5 BARS EW TOP & BOT	#4	99'-0"	B 30"x36"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F10.0	10'-0"	10'-0"	30"	(11) #5 BARS EW TOP & BOT	#5	99'-0"	A 16"x24"	(4) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F11.0	11'-0"	9'-0"	66"	#6 AT 12" OC EW TOP & BOT	(4) #8 TIE BARS	99'-0"	A 24"x36"	(12) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	SEE DETAIL 2/S201 FOR PIER REINF DETAILING
F13.5	13'-6"	13'-6"	30"	(11) #6 BARS EW TOP & BOT	(2) #9	99'-0"	B 30"x36" AND A 24"x36"	(2) SETS OF (6) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	
F14.5	14'-6"	14'-6"	30"	(12) #6 BARS EW TOP & BOT	(4) #8 TIE BARS	99'-0"	A 24"x36"	(12) #6 VERT W/ #4 TIES AT 6" OC HOOK VERT BARS AT TOP & BOT	100'-0"	SEE DETAIL 2/S201 FOR PIER REINF DETAILING
F14.5-B	14'-6"	14'-6"	30"	(12) #6 BARS EW TOP & BOT	(4) #8 TIE BARS ON SOUTH, #5 HAIRPIN ON NORTH	99'-0"	D 24"x56"	(12) #6 VERT W/ #4 TIES AT 6" OC FOR SOUTH COL. (4) #6 VERT W/ #4 TIES AT 6" OC FOR NORTH COL. HOOK VERT BARS AT TOP & BOT	100'-0"	SEE DETAIL 2/S201 FOR PIER REINF DETAILING
F14.5-C	14'-6"	14'-6"	30"	(12) #6 BARS EW TOP & BOT	(4) #8 TIE BARS	99'-0"	E 30"x60"	(12) #6 VERT W/ #4 TIES AT 6" OC FOR SOUTH COL. (4) #6 VERT W/ #4 TIES AT 6" OC FOR NORTH COL. HOOK VERT BARS AT TOP & BOT	100'-0"	SEE DETAIL 2/S201 FOR PIER REINF DETAILING

FOUNDATION PLAN NOTES:

- TOP OF SLAB AND REFERENCE ELEVATION = 100'-0", UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION. SLOPE TO FLOOR DRAINS WHERE NOTED BY ARROWS ON PLAN.
- TOP OF FOOTING ELEVATION = 99'-0", UNLESS OTHERWISE NOTED.
- ISOLATED FOOTINGS ARE CENTERED ON COLUMNS, UNLESS OTHERWISE NOTED.
- TYPICAL SLAB ON GRADE, UNLESS OTHERWISE NOTED: 11" SLAB ON GRADE ON 15 MIL VAPOR RETARDER ON 6" GRANULAR FILL. REINFORCE WITH W/ #5 BARS @ 16" OC EW, CENTERED IN SLAB. SEE GEOTECH FOR SUBGRADE PREPARATION REQUIREMENTS. SLOPE TO FLOOR DRAINS WHERE NOTED (SEE ALSO ARCH & MEP DRAWINGS). SEE SHEET S200 FOR TYPICAL JOINT & RE-ENTRANT CORNER REINFORCEMENT DETAILS. CONTRACTOR TO PROVIDE CONTROL / CONSTRUCTION JOINTS AT MAXIMUM SPACINGS OF 27'-6", AND A MAXIMUM SLAB PANEL LENGTH / WIDTH RATIO OF 1.5.
- CONTRACTOR TO PROVIDE STOOP PER TYPICAL DETAIL ON SHEET S200. CONTRACTOR TO COORDINATE SIZE, LOCATION, & QUANTITY WITH ARCHITECTURAL DRAWINGS.
- COORDINATE FLOOR DRAIN LOCATIONS WITH MEP DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, OPENINGS, AND ELEVATIONS. CONTINUOUS FOOTINGS ARE CENTERED ON WALL, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE ELEVATOR PIT SUMP LOCATION WITH ELEVATOR MANUFACTURER. SEE DETAIL 2 / S202.
- WHERE TIE BEAMS INTERSECT WITH FOOTINGS, RUN REINFORCEMENT CONTINUOUS THROUGH FOOTINGS.
- LIGHT GAUGE METAL FRAMING CONTRACTOR TO DESIGN FULL-HEIGHT OF WALL FOR ±16 PSF WIND LOAD. COORDINATE WALL LATERAL SUPPORT AT ROOF WITH PEMB MANUFACTURER.
- CONTRACTOR TO COORDINATE FINAL LOCATIONS OF FOOTINGS WITH PEMB STRUCTURE. COORDINATE DOWNSPOUT PENETRATIONS AND SLEEVES AT FOOTINGS.
- DIMENSIONS MARKED WITH *** SHALL BE VERIFIED WITH THE PEMB MANUFACTURER.
- THIS DIMENSION IS BASED ON A MAXIMUM PEMB COLUMN DEPTH OF 3'-3" AT THE MEZZANINE LEVEL, AS WELL AS A 1'-0" CLEAR DISTANCE FROM THE PEMB STRUCTURE TO EDGE OF SLAB. THE MEZZANINE IS DESIGNED TO BE COMPLETELY SEPARATE FROM THE PEMB STRUCTURE AND FACADE. CONTRACTOR TO VERIFY WITH PEMB MANUFACTURER.
- ALL FOUNDATIONS HAVE BEEN DESIGNED TO BE SUPPORTED ON SOIL IMPROVED USING RAMMED AGGREGATE PIERS. THESE PIERS SHALL PROVIDE AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF.



1627 MAIN STREET, SUITE 600
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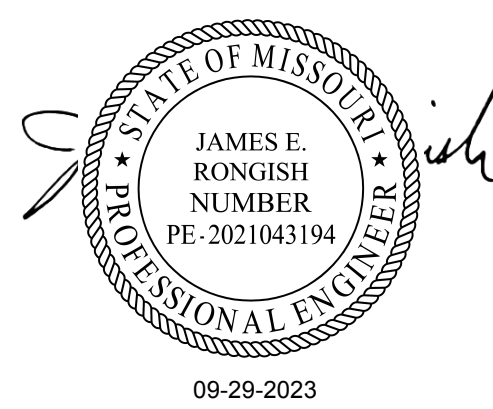
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1301 BURLINGTON STREET
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

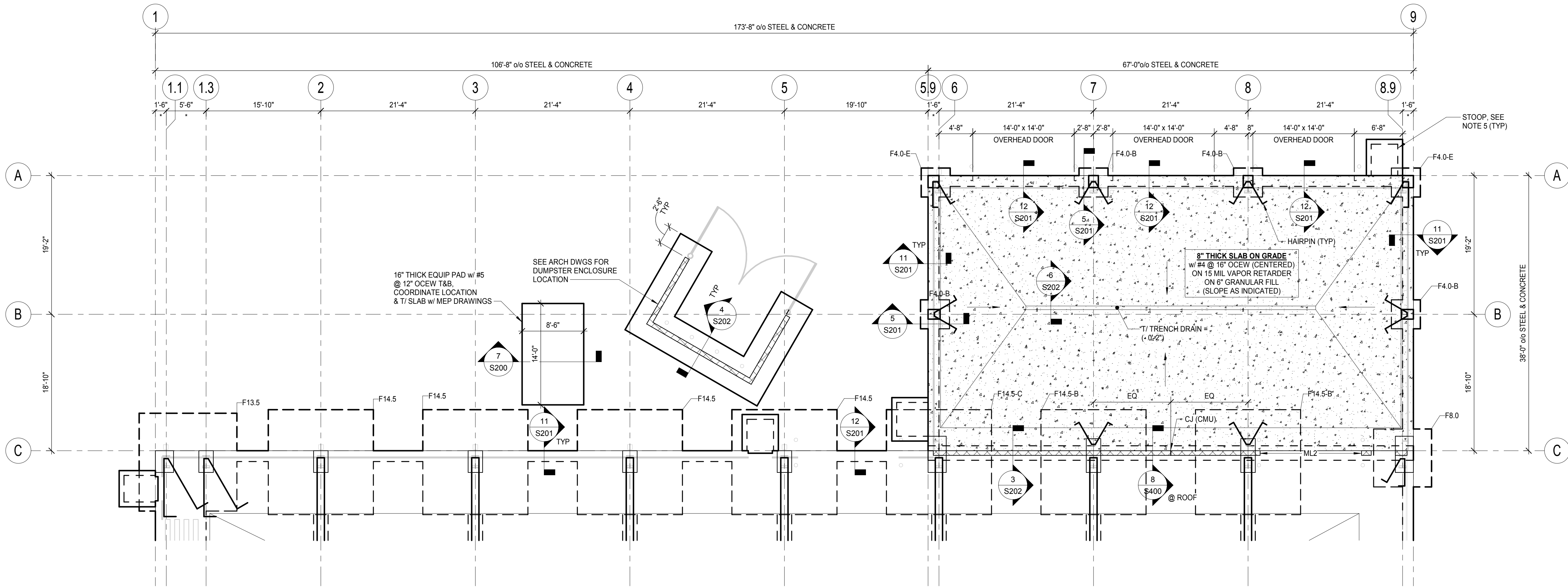
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CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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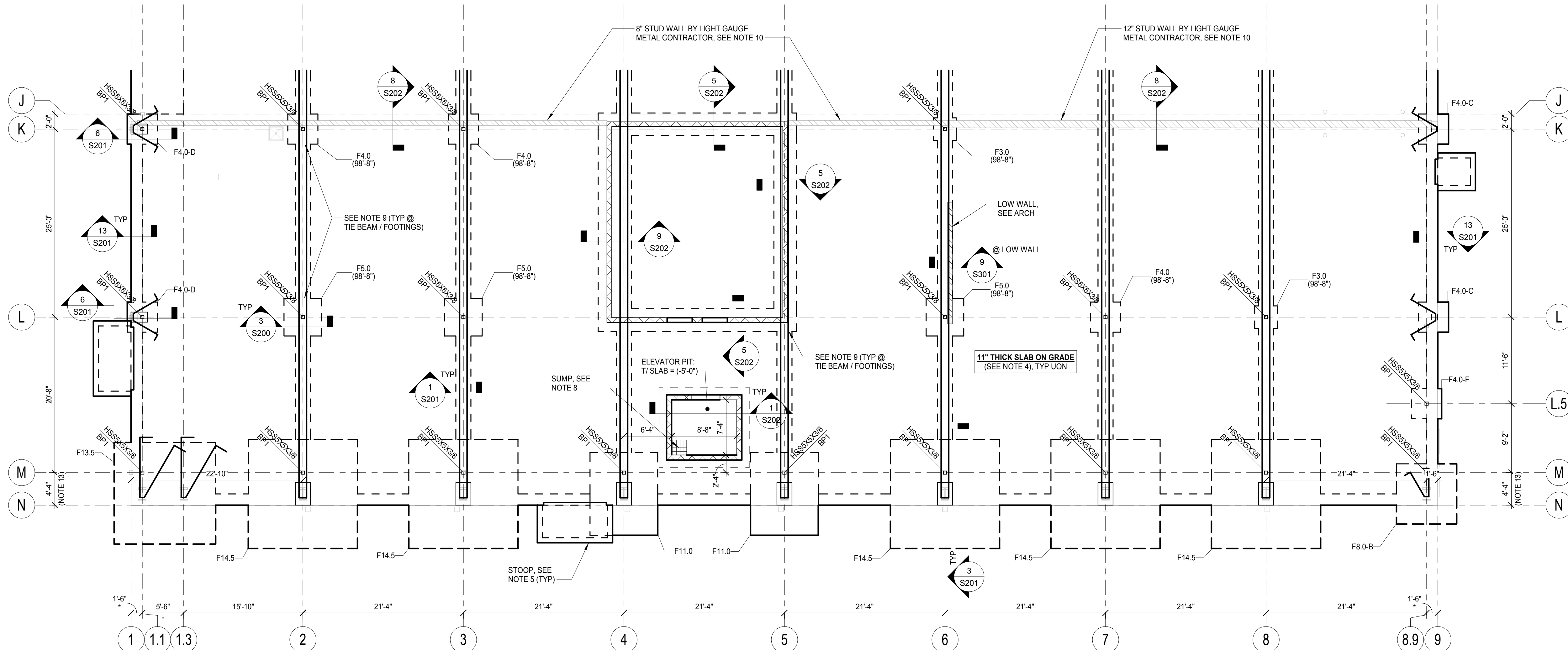
FOUNDATION PLAN -
OVERALL

S100

SHEET 085 OF 131



1 FOUNDATION PLAN - NORTH
SCALE = 1/8" = 1'-0"



2 FOUNDATION PLAN - SOUTH
SCALE = 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. TOP OF SLAB AND REFERENCE ELEVATION = 100'-0", UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION. SLOPE TO FLOOR DRAINS WHERE NOTED BY ARROWS ON PLAN.
2. TOP OF FOOTING ELEVATION = 99'-0", UNLESS OTHERWISE NOTED.
3. ISOLATED FOOTINGS ARE CENTERED ON COLUMNS, UNLESS OTHERWISE NOTED.
4. TYPICAL SLAB ON GRADE, UNLESS OTHERWISE NOTED: 11" SLAB ON GRADE ON 15 MIL VAPOR RETARDER ON 6" GRANULAR FILL. REINFORCE WITH #5 BARS @ 16" OC EW, CENTERED IN SLAB. SEE GEOTECH FOR SUBGRADE PREPARATION REQUIREMENTS. SLOPE TO FLOOR DRAINS WHERE NOTED (SEE ALSO ARCH & MEP DRAWINGS). SEE SHEET S200 FOR TYPICAL JOINT & RE-ENTRANT CORNER REINFORCEMENT DETAILS. CONTRACTOR TO PROVIDE CONTROL / CONSTRUCTION JOINTS AT MAXIMUM SPACINGS OF 27'-6", AND A MAXIMUM SLAB PANEL LENGTH / WIDTH RATIO OF 1.5.
5. CONTRACTOR TO PROVIDE STOOPE PER TYPICAL DETAIL ON SHEET S200. CONTRACTOR TO COORDINATE SIZE, LOCATION, & QUANTITY WITH ARCHITECTURAL DRAWINGS.
6. COORDINATE FLOOR DRAIN LOCATIONS WITH MEP DRAWINGS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, OPENINGS, AND ELEVATIONS. CONTINUOUS FOOTINGS ARE CENTERED ON WALL, UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO COORDINATE ELEVATOR PIT SUMP LOCATION WITH ELEVATOR MANUFACTURER. SEE DETAIL 2 / S202.
9. WHERE TIE BEAMS INTERSECT WITH FOOTINGS, RUN REINFORCEMENT CONTINUOUS THROUGH FOOTINGS.
10. LIGHT GAUGE METAL FRAMING CONTRACTOR TO DESIGN FULL HEIGHT OF WALL FOR ±16 PSF WIND LOAD. COORDINATE WALL LATERAL SUPPORT AT ROOF WITH PEMB MANUFACTURER.
11. CONTRACTOR TO COORDINATE FINAL LOCATIONS OF FOOTINGS WITH PEMB STRUCTURE. COORDINATE DOWNSPOUT PENETRATIONS AND SLEEVES AT FOOTINGS.
12. DIMENSIONS MARKED WITH "" SHALL BE VERIFIED WITH THE PEMB MANUFACTURER.
13. THIS DIMENSION IS BASED ON A MAXIMUM PEMB COLUMN DEPTH OF 3'-3" AT THE MEZZANINE LEVEL, AS WELL AS A 1 1/2' CLEAR DISTANCE FROM THE PEMB STRUCTURE TO EDGE OF SLAB. THE MEZZANINE IS DESIGNED TO BE COMPLETELY SEPARATE FROM THE PEMB STRUCTURE AND FACADE. CONTRACTOR TO VERIFY WITH PEMB MANUFACTURER.
14. ALL FOUNDATIONS HAVE BEEN DESIGNED TO BE SUPPORTED ON SOIL IMPROVED USING RAMMED AGGREGATE PIERS. THESE PIERS SHALL PROVIDE AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF.



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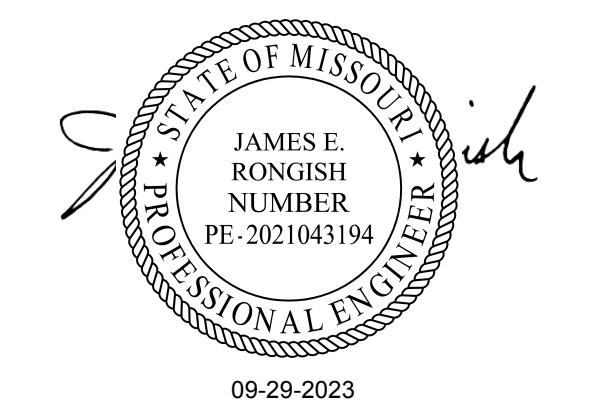
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 22001238-00
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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DRAWN BY: JER
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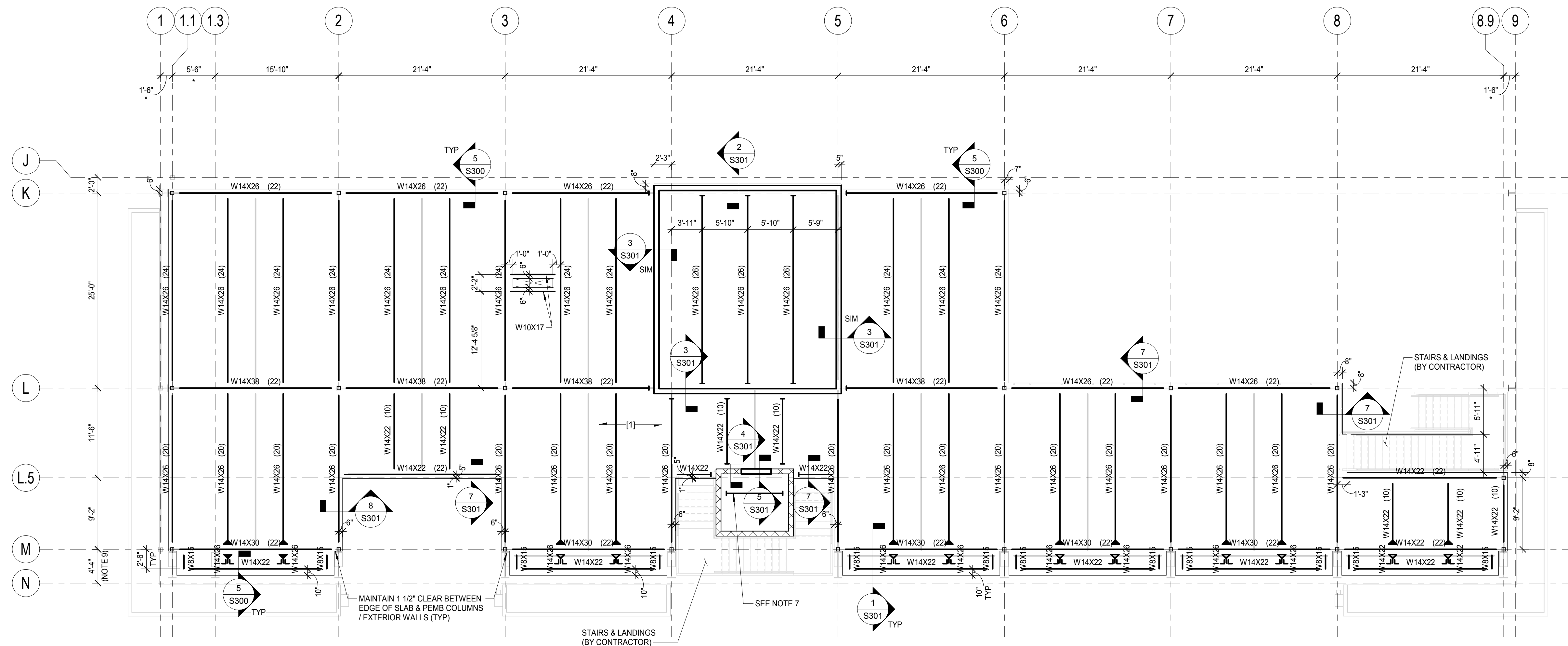
SHEET TITLE

FOUNDATION PARTIAL
PLANS

S101

SHEET 086 OF 131

9/28/2023 4:36:52 PM



1 LEVEL 2 FRAMING PLAN
SCALE = 1/8" = 1'-0"

FRAMING PLAN NOTES:

- TOP OF SLAB AND REFERENCE ELEVATION = 114'-0", UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
- TOP OF STEEL = (-0-5 1/2"), UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM REFERENCE ELEVATION.
- INDICATES DIRECTION OF SPAN OF 2" - 20 GA COMPOSITE METAL DECK WITH 3 1/2" NORMAL WEIGHT CONCRETE FILL (TOTAL SLAB THICKNESS = 5 1/2"). REINFORCE WITH 6X6 W2.8XW2.8 WWR.
- BEAMS ARE SPACED EVENLY BETWEEN GRID LINES, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY ALL EDGE OF SLAB DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, OPENINGS, AND ELEVATIONS.
- CONTRACTOR TO COORDINATE ELEVATION & LOCATION OF W8X31 HOIST BEAM WITH ELEVATOR MANUFACTURER. BEAM TO BEAR ON CMU WALL PER DETAIL 7 / S400.
- DIMENSIONS MARKED WITH "" SHALL BE VERIFIED WITH THE PEMB MANUFACTURER.
- THIS DIMENSION IS BASED ON A MAXIMUM PEMB COLUMN DEPTH OF 3'-3" AT THE MEZZANINE LEVEL, AS WELL AS A 1 1/2" CLEAR DISTANCE FROM THE PEMB STRUCTURE TO EDGE OF SLAB. THE MEZZANINE IS DESIGNED TO BE COMPLETELY SEPARATE FROM THE PEMB STRUCTURE AND FACADE. CONTRACTOR TO VERIFY WITH PEMB MANUFACTURER.



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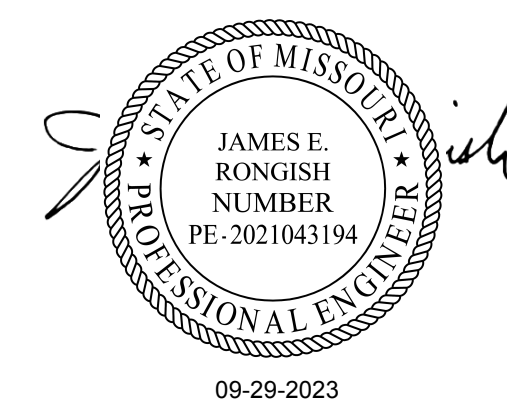
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
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LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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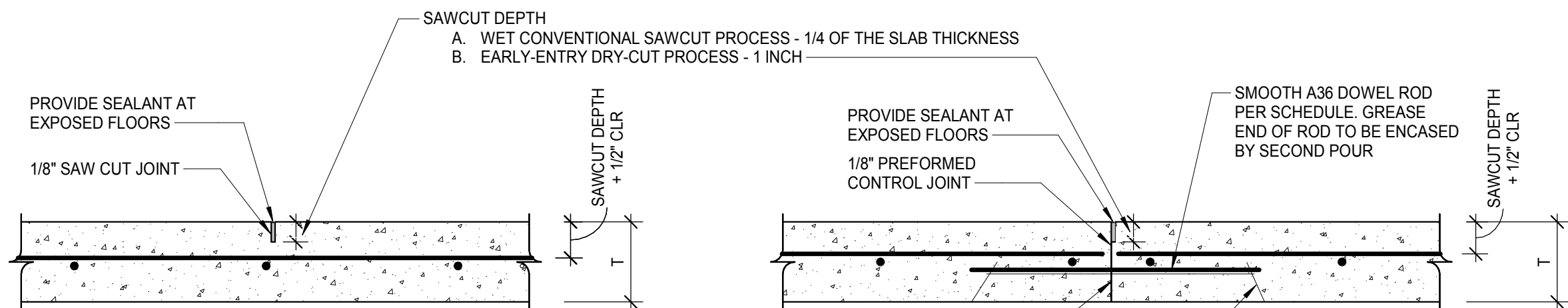
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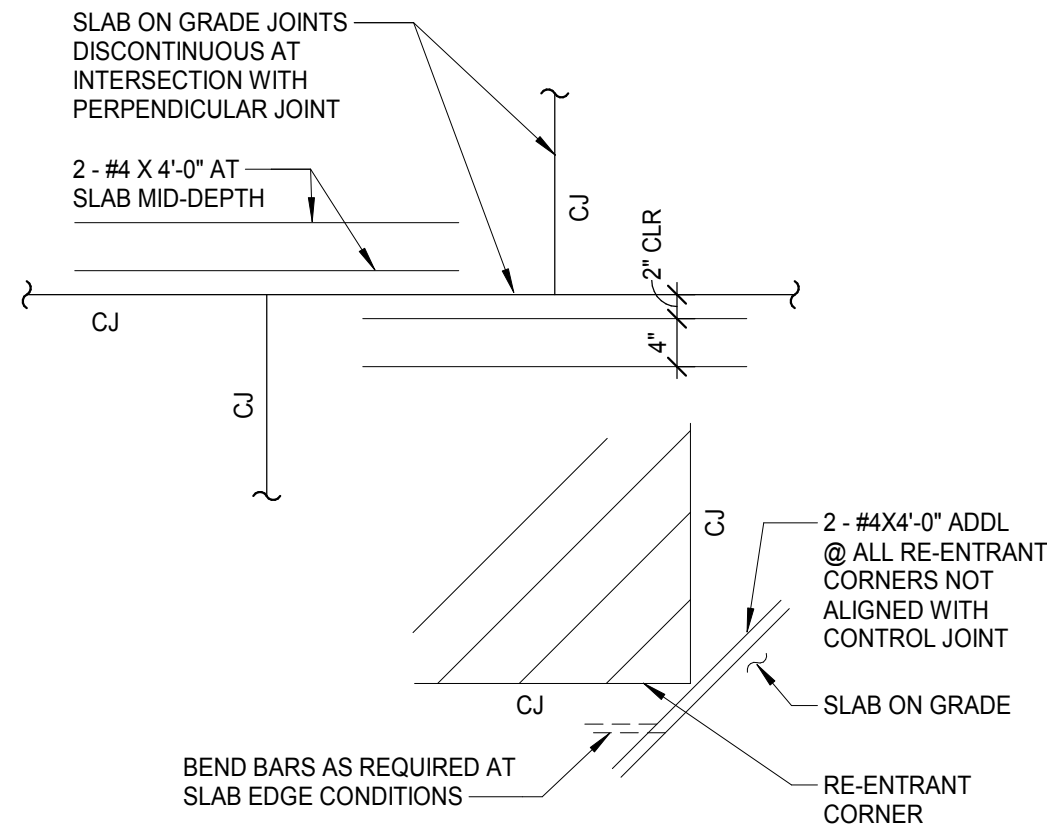
MEZZANINE FRAMING
PLAN

S102

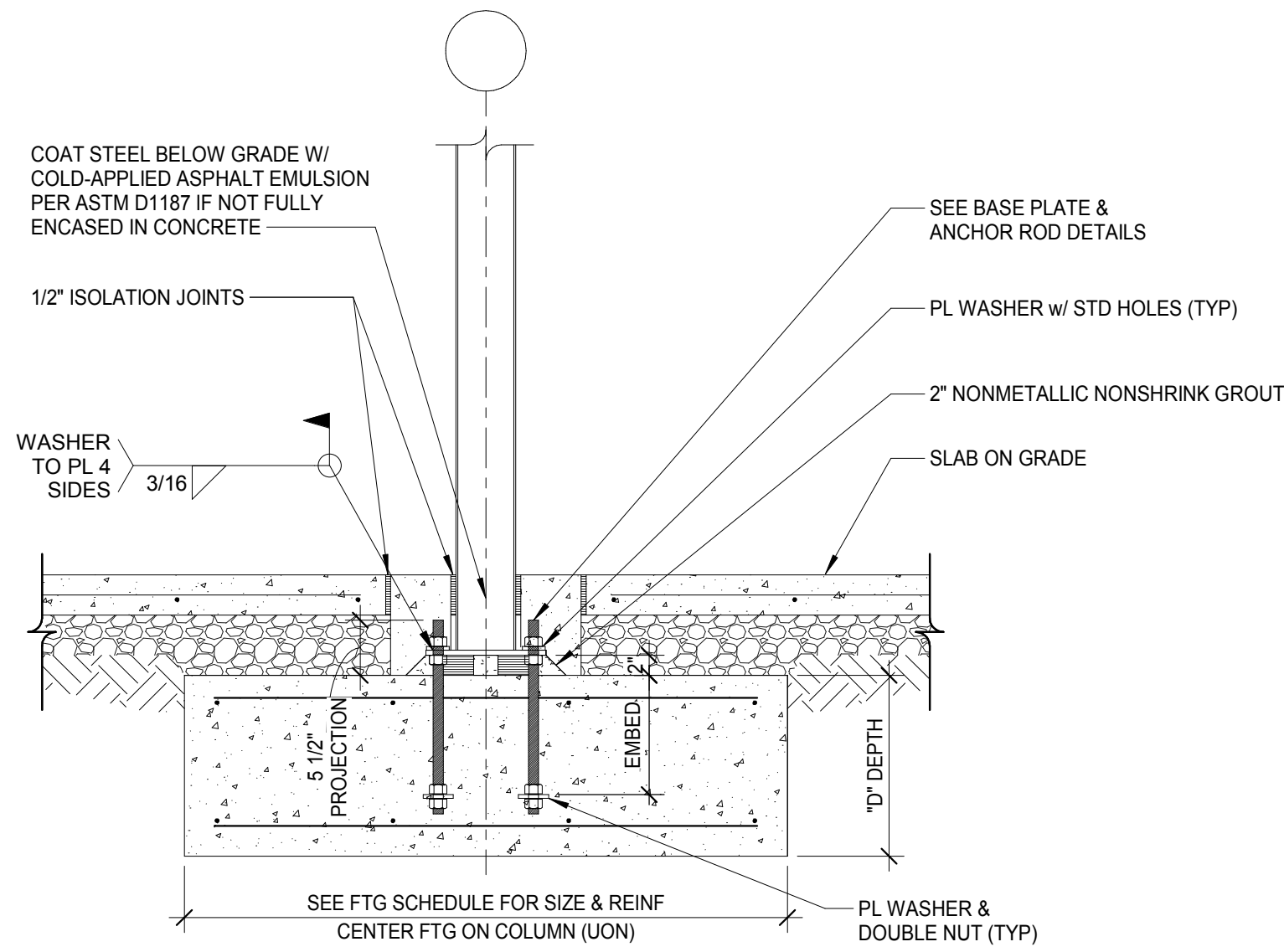
SHEET 087 OF 131



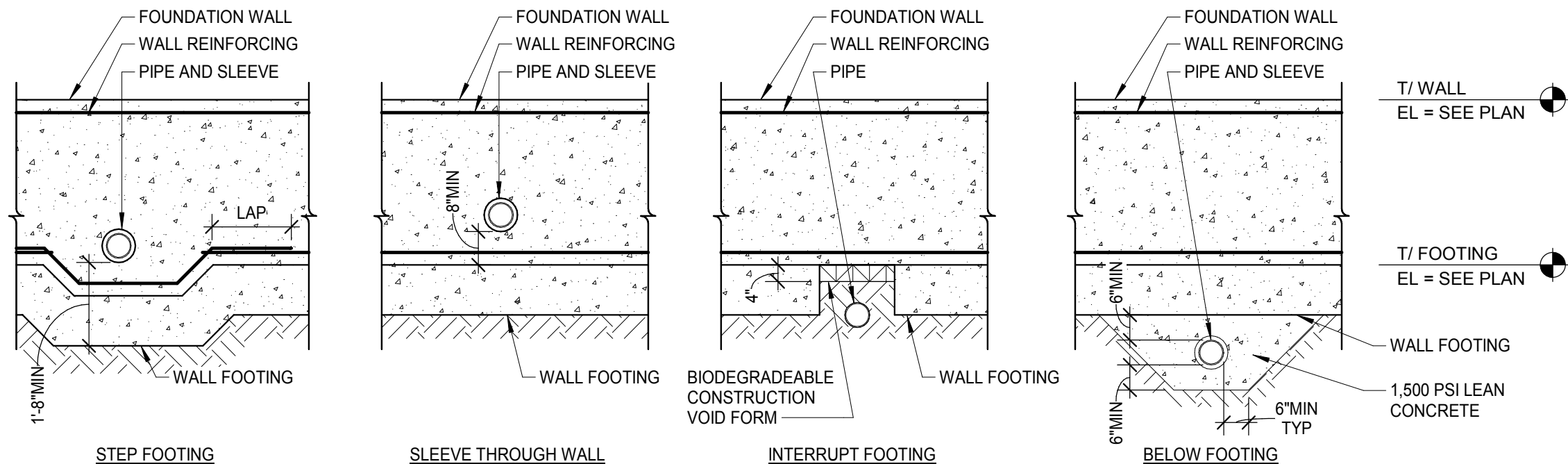
DOWEL ROD SIZE AND SPACING		
SLAB DEPTH	SMOOTH ROUND DOWEL DIMENSIONS	DOWEL SPACING, CENTER-TO-CENTER
6 TO 8 INCHES	3/4" DIA X 16" LONG	12 INCHES
8 TO 9 INCHES	1" DIA X 16" LONG	12 INCHES
9 TO 11 INCHES	1-1/4" DIA X 18" LONG	12 INCHES



2 TYPICAL RE-ENTRANT CORNER REINFORCING DETAIL
SCALE = 3/4" = 1'-0"

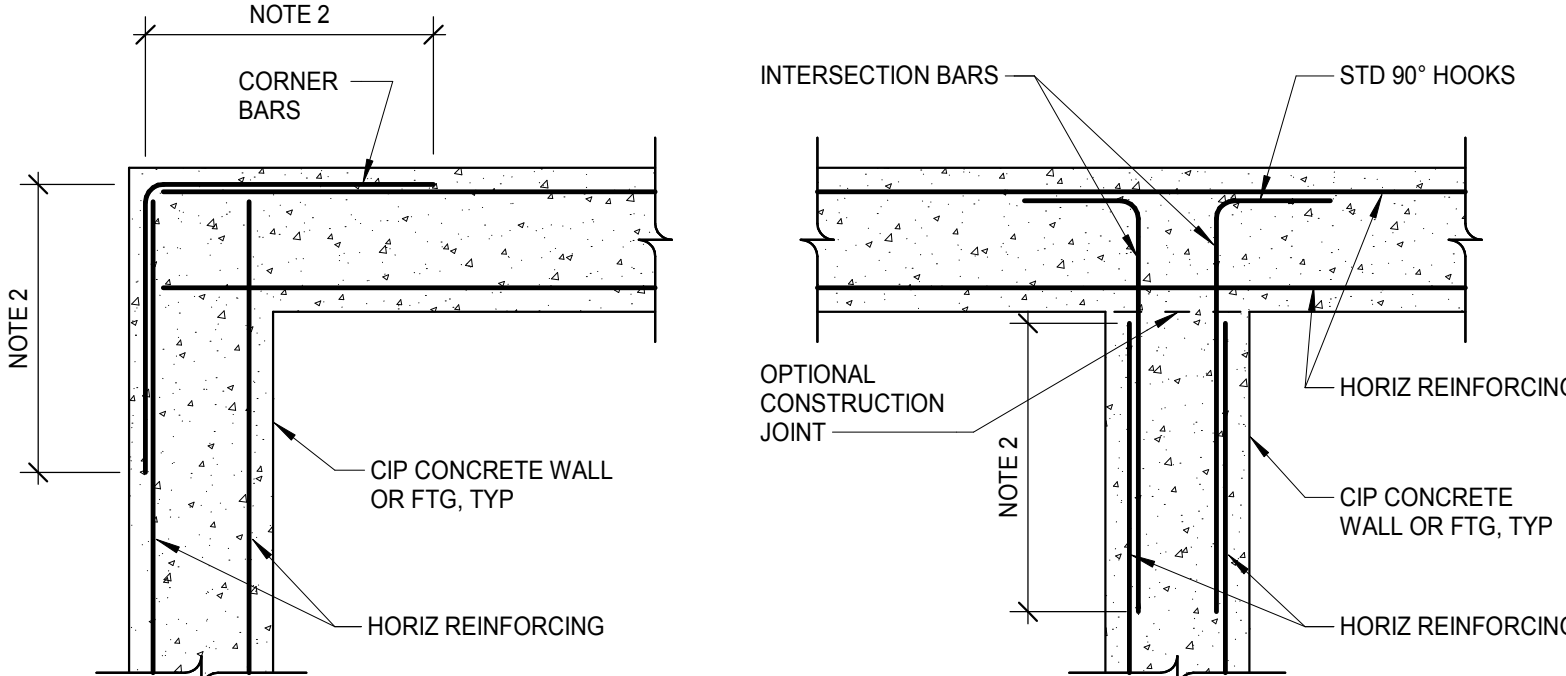


3 TYPICAL INTERIOR SPREAD FOOTING DETAIL
SCALE = 3/4" = 1'-0"



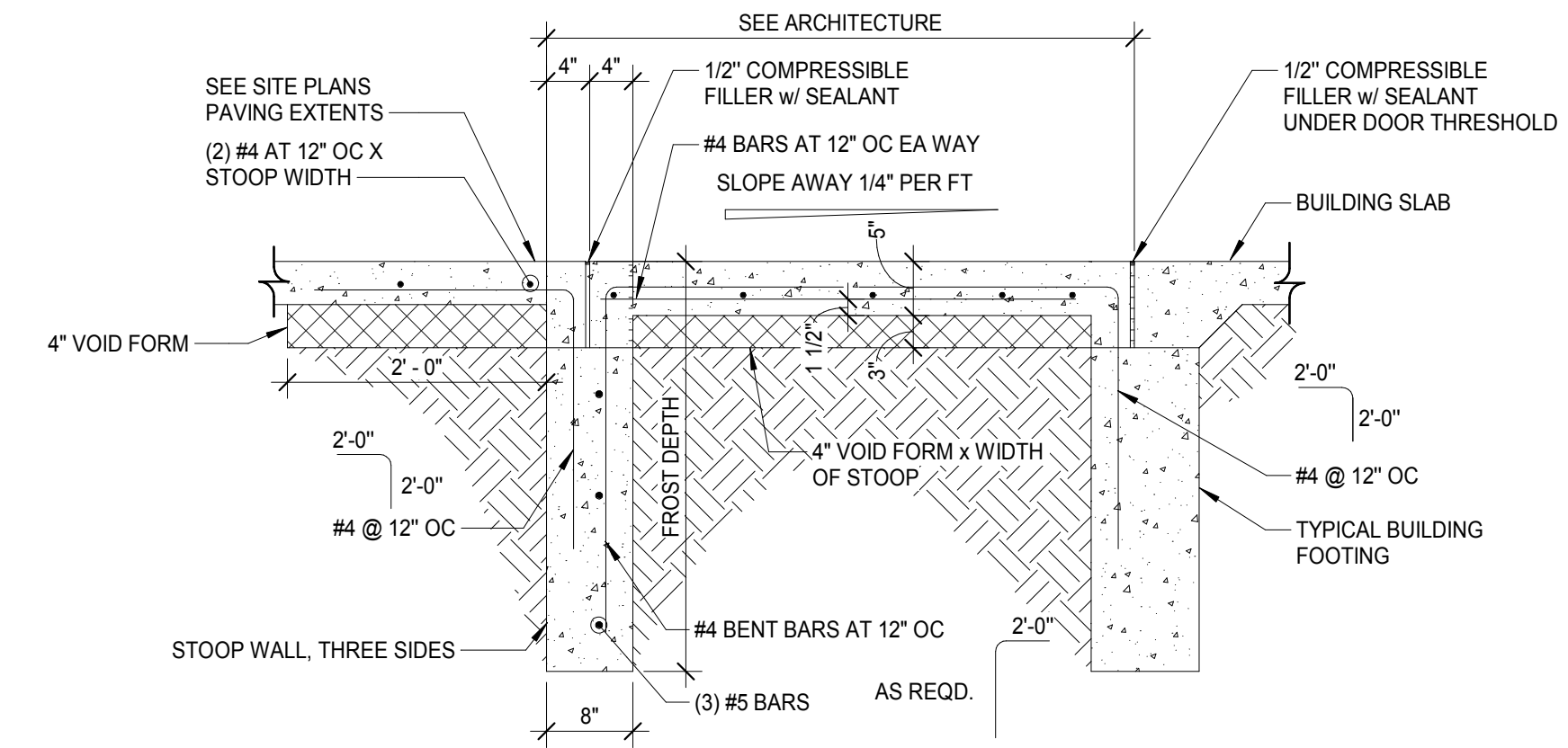
NOTES:
1. DIAMETER OF SLEEVE FOR PIPE SHALL BE 2" LARGER THAN PIPE DIAMETER. INSTALL PIPE AT CENTER OF SLEEVE.

4 TYPICAL FOUNDATION WALL PENETRATION
SCALE = 3/8" = 1'-0"

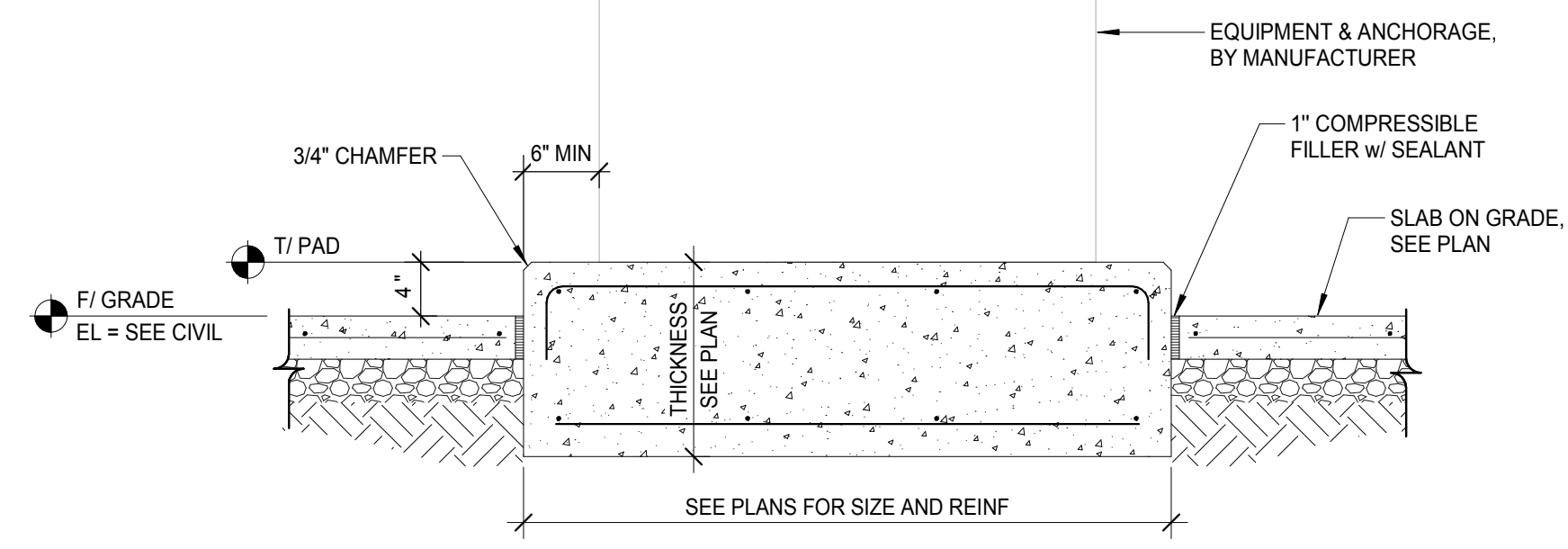


NOTES:
1. CORNER BARS & INTERSECTION BARS SHALL HAVE SAME SIZE AND SPACING AS HORIZONTAL BARS.
2. FOR CORNER BAR AND INTERSECTION BAR LAP LENGTH, USE LAP SPICE DIMENSION SHOWN IN STRUCTURAL GENERAL NOTES FOR "ALL OTHER BARS", OR 2'-0" MIN.
3. VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY.
4. DO NOT PLACE VERTICAL CONSTRUCTION JOINTS WITHIN 5'-0" OF CORNER.

5 TYPICAL GRADE BEAM / FOOTING CORNER / T-INTERSECTION REINFORCING
SCALE = 3/4" = 1'-0"

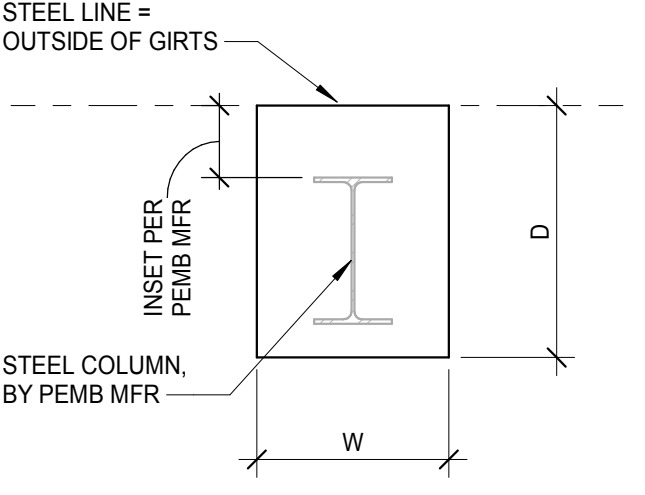


6 TYPICAL STOOP DETAIL
SCALE = 3/4" = 1'-0"

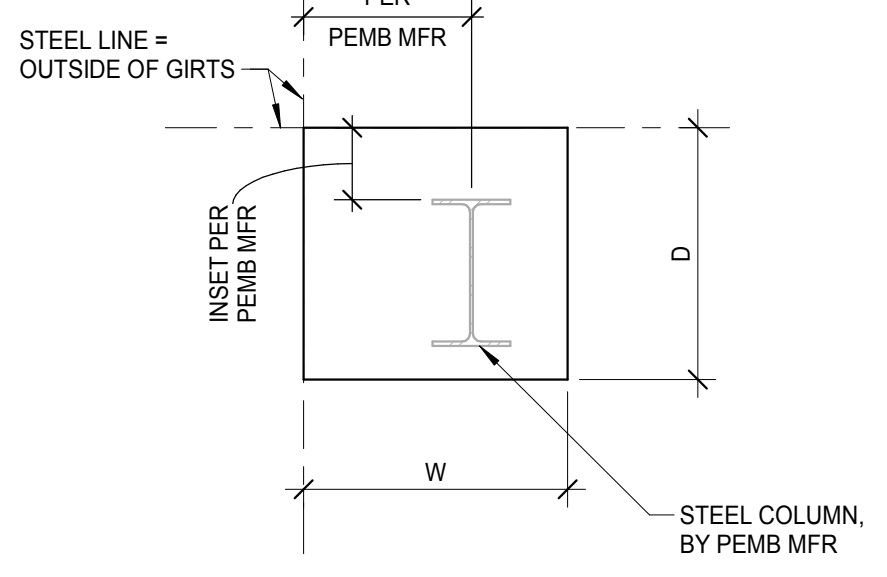


NOTES:
1. COORDINATE LOCATION OF PADS WITH MEP DRAWINGS AND EQUIPMENT SUPPLIERS.
2. CONTRACTOR SHALL VERIFY THAT ALL ITEMS REQUIRED BY THE EQUIPMENT THAT ARE REQUIRED TO BE EMBEDDED INTO PADS ARE PLACED BEFORE PADS ARE POURED.
3. SUBGRADE TO BE COMPACTED PER GEOTECHNICAL RECOMMENDATIONS.

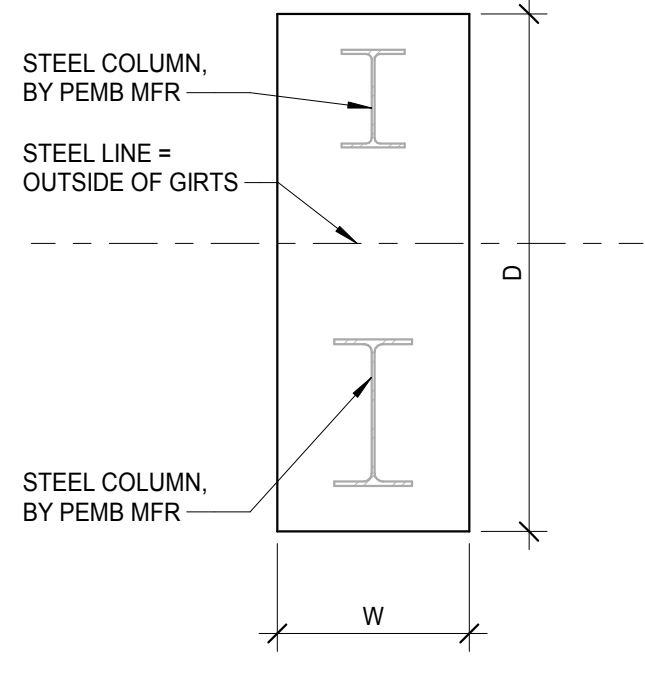
7 TYPICAL EQUIPMENT PAD
SCALE = 3/4" = 1'-0"



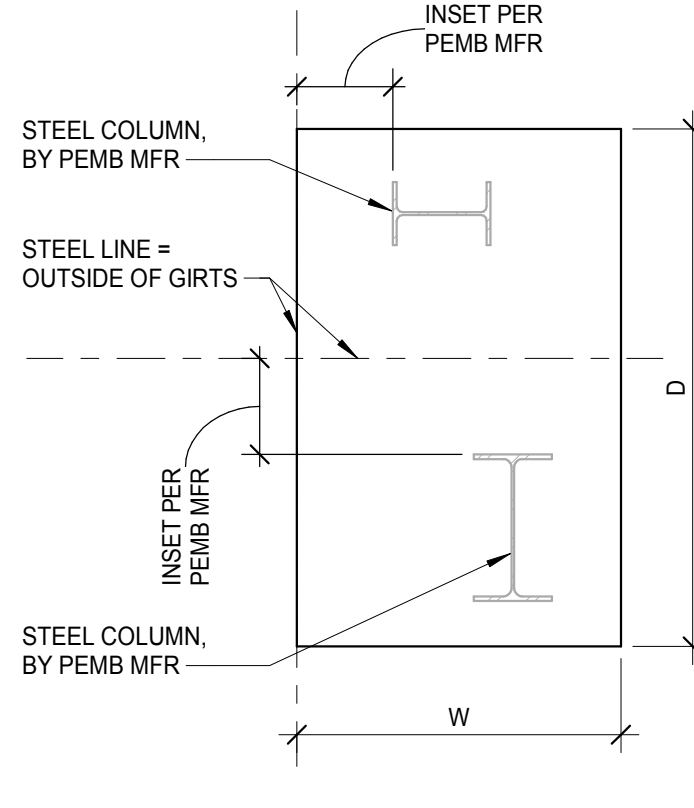
8 PIER TYPE "A"
NOT TO SCALE



9 PIER TYPE "B"
NOT TO SCALE



11 PIER TYPE "D"
SCALE = 3/4" = 1'-0"



12 PIER TYPE "E"
SCALE = 3/4" = 1'-0"



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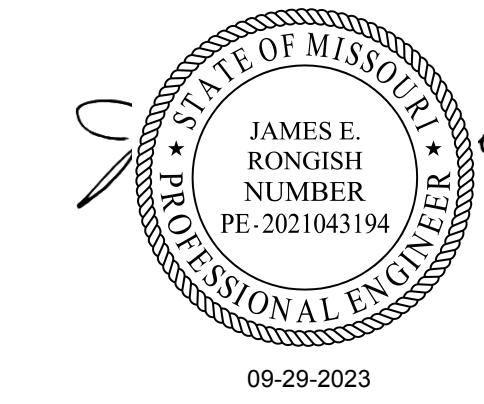


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LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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SHEET TITLE

TYPICAL FOUNDATION
DETAILS

S200

SHEET 088 OF 131

LEE'S SUMMIT MUNICIPAL AIRPORT

LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY PROJECT NO. - 47732472


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LEES SUMMIT, MO

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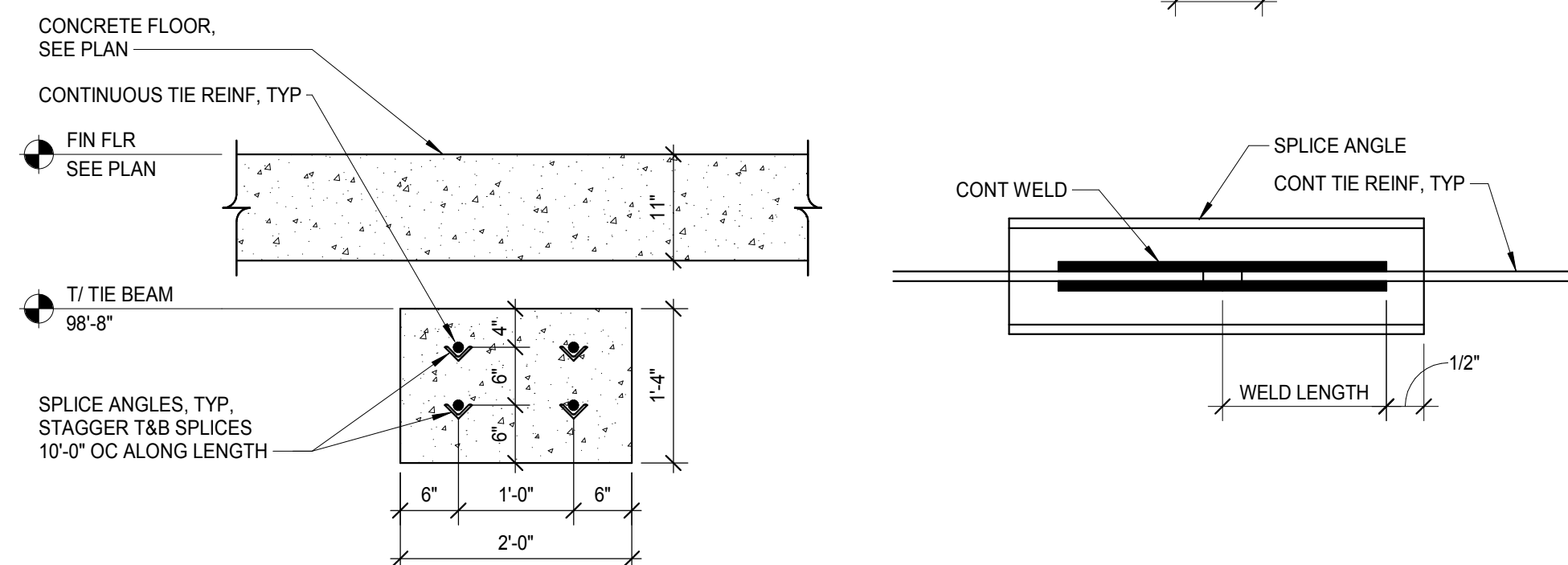
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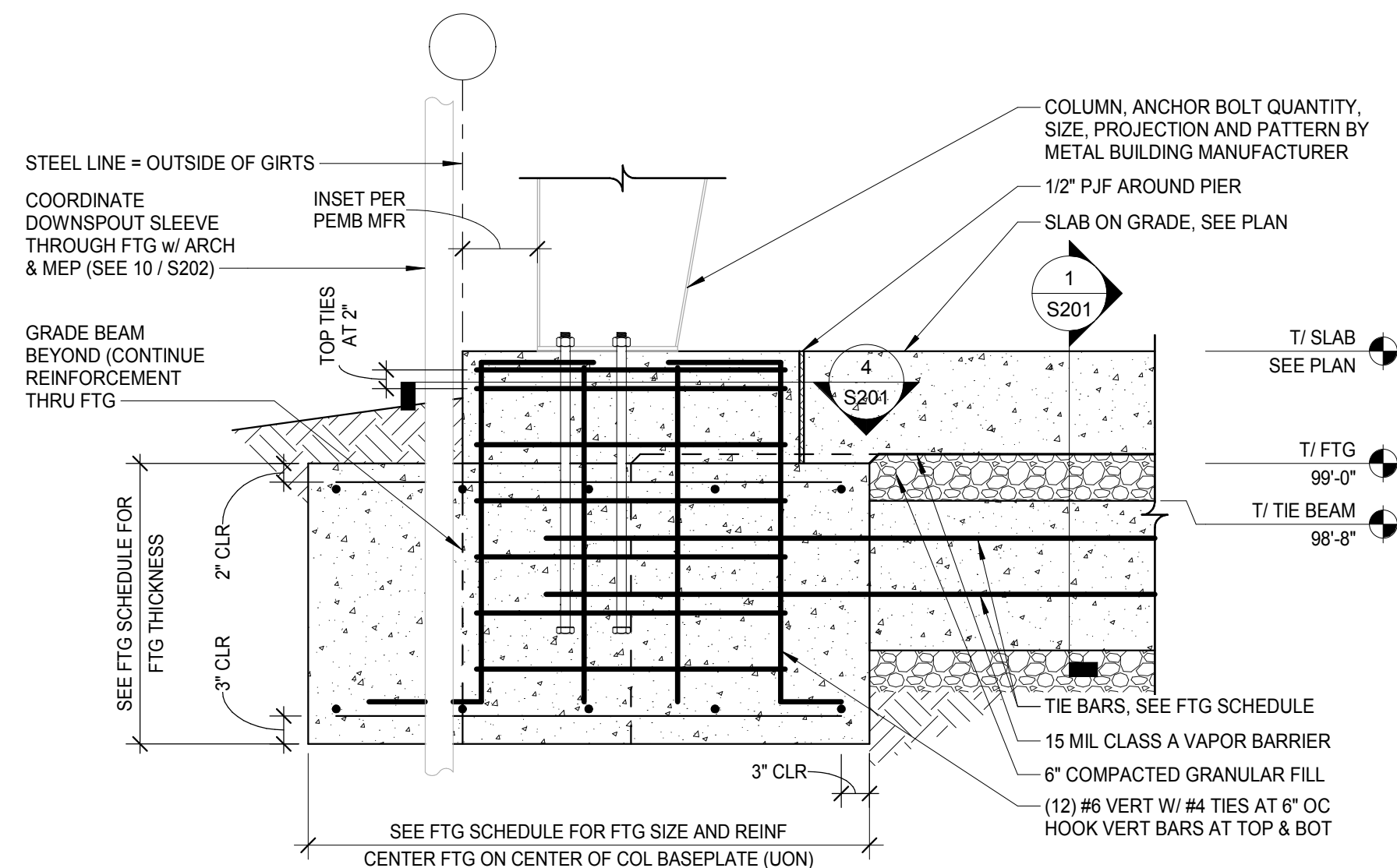
S201

SHEET 089 OF 131

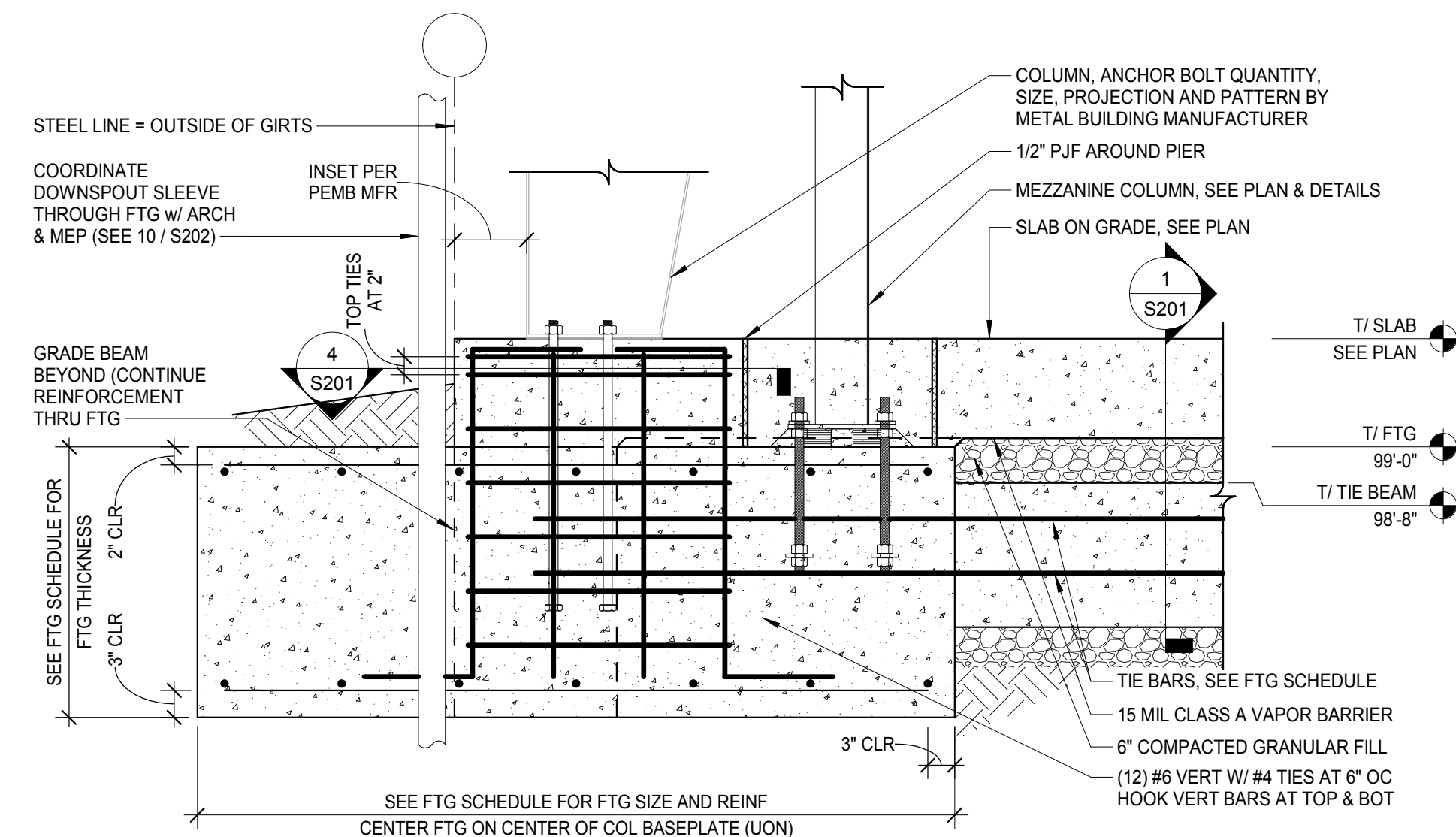
TIE BAR SCHEDULE		
SIZE	SPLICE ANGLE	WELD SIZE & LENGTH
#4	L1x1x1/8	1/4"x2 1/2"
#5	L1x1x3/16	5/16"x2 1/2"
#6	L1 1/2x1 1/2x3/16	3/8"x3"
#7	L1 3/4x1 3/4x3/16	7/16"x3 1/2"
#8	L2x2x1/4	1/2"x4"



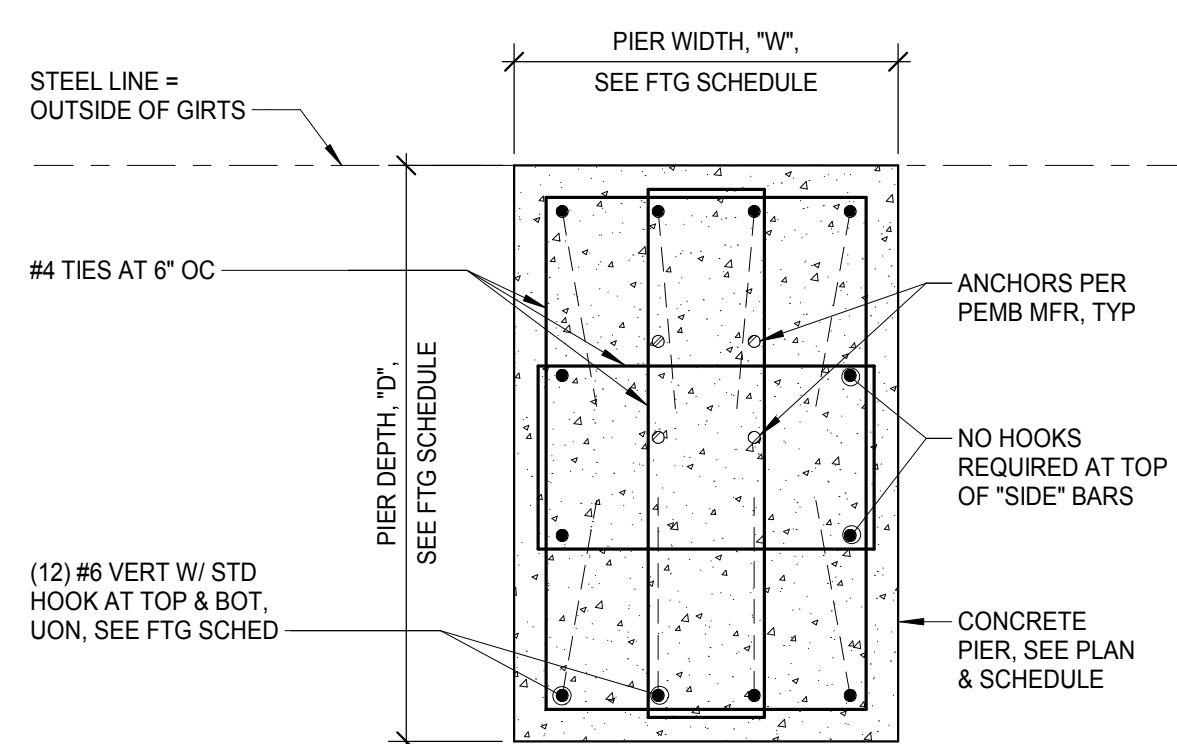
1 TYPICAL TIE BAR DETAIL
SCALE = 3/4" = 1'-0"



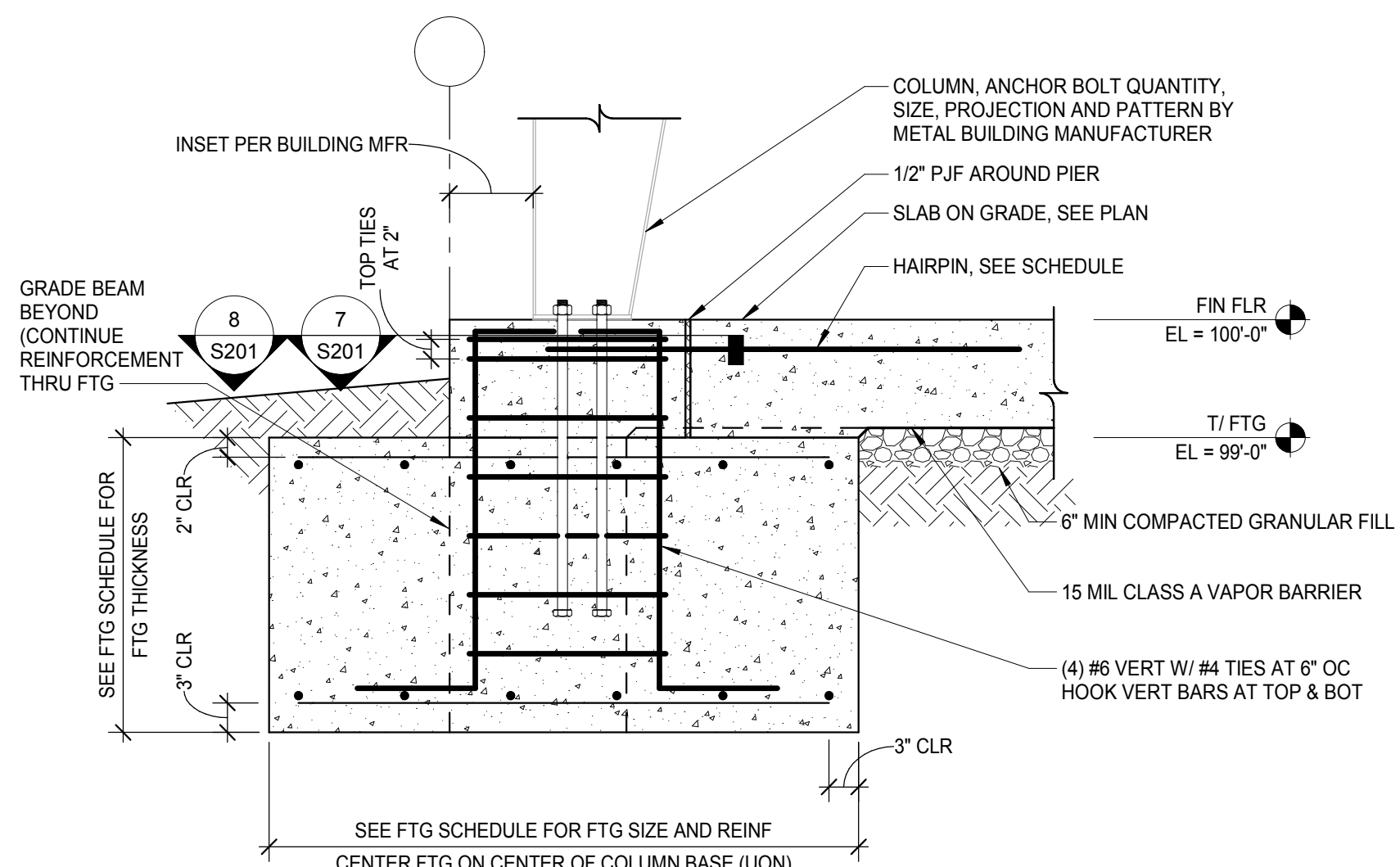
2 FOOTING F11.0 AND F14.5 - TYPICAL SECTION
SCALE = 3/4" = 1'-0"



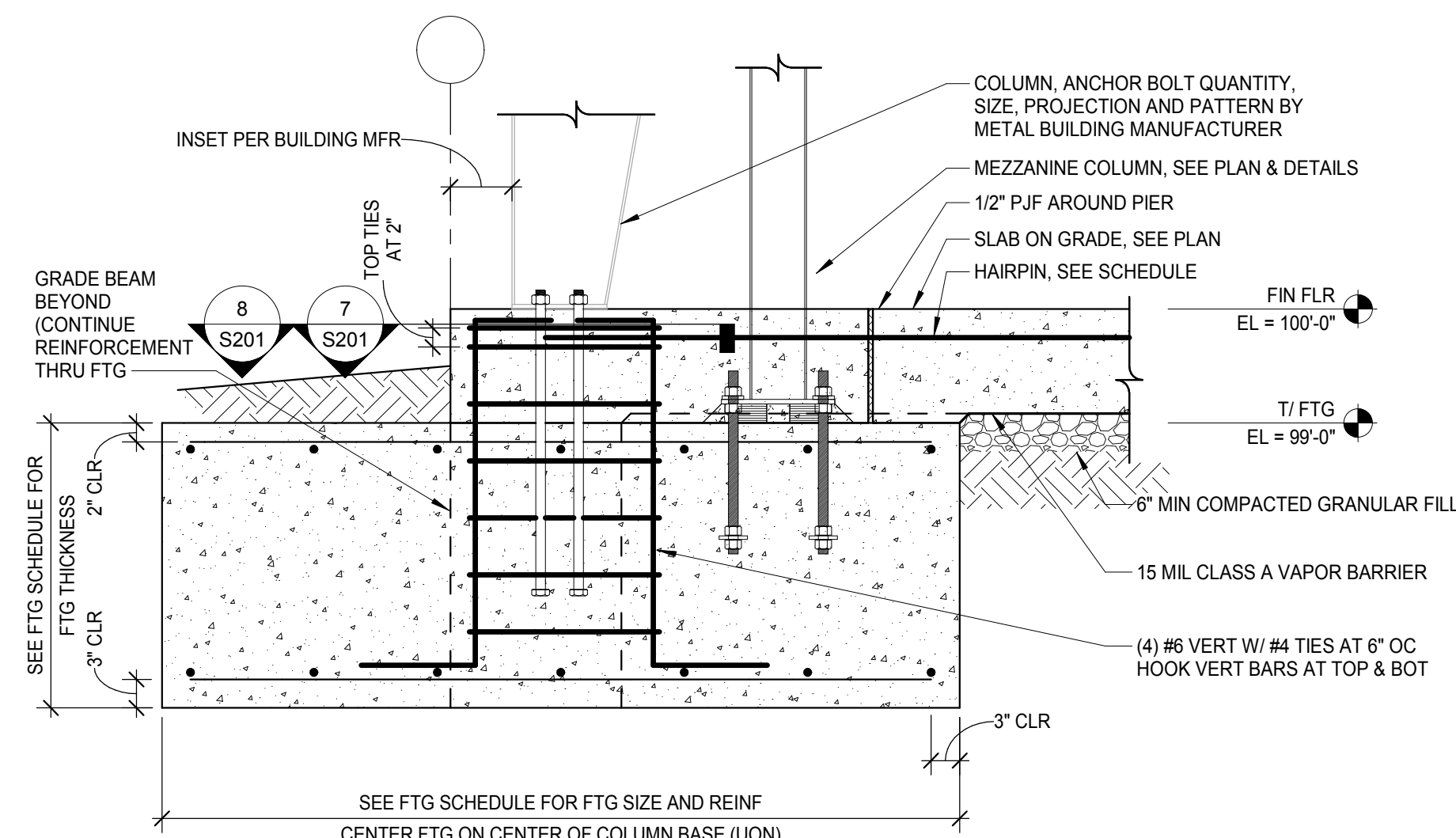
3 FOOTING F11.0 AND F14.5 - SECTION WITH MEZZANINE
SCALE = 3/4" = 1'-0"



4 FOOTINGS F11.0 AND F14.5 - PIER REINF DETAIL
SCALE = 1" = 1'-0"



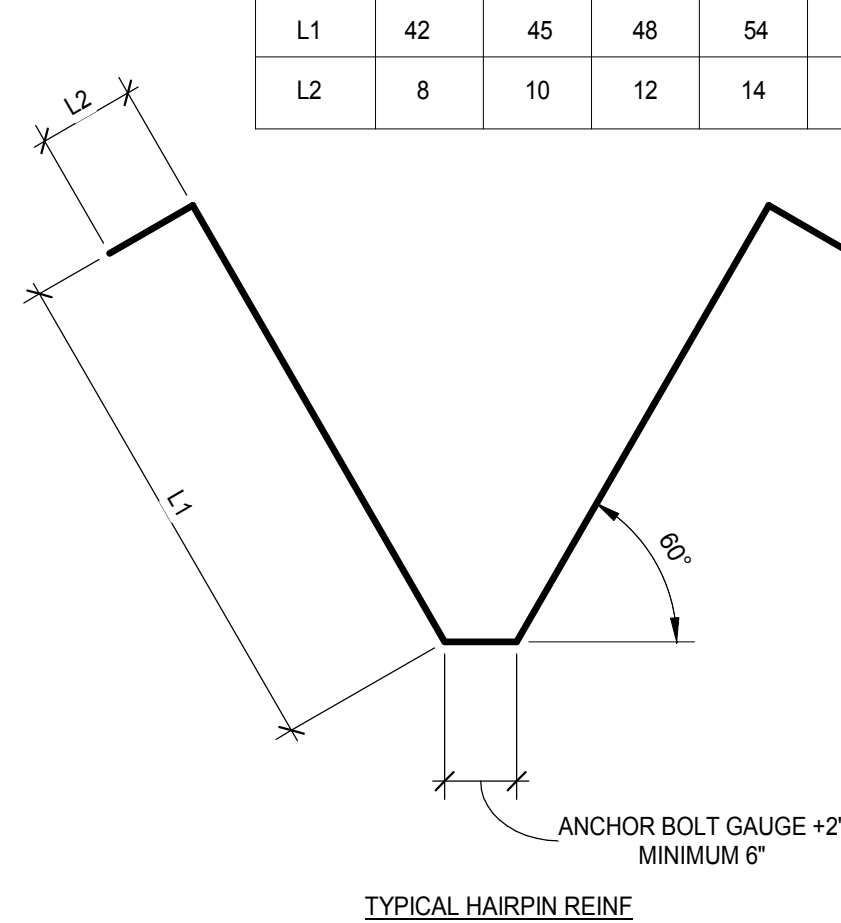
5 TYPICAL EXTERIOR COLUMN WITH HAIRPIN
SCALE = 3/4" = 1'-0"



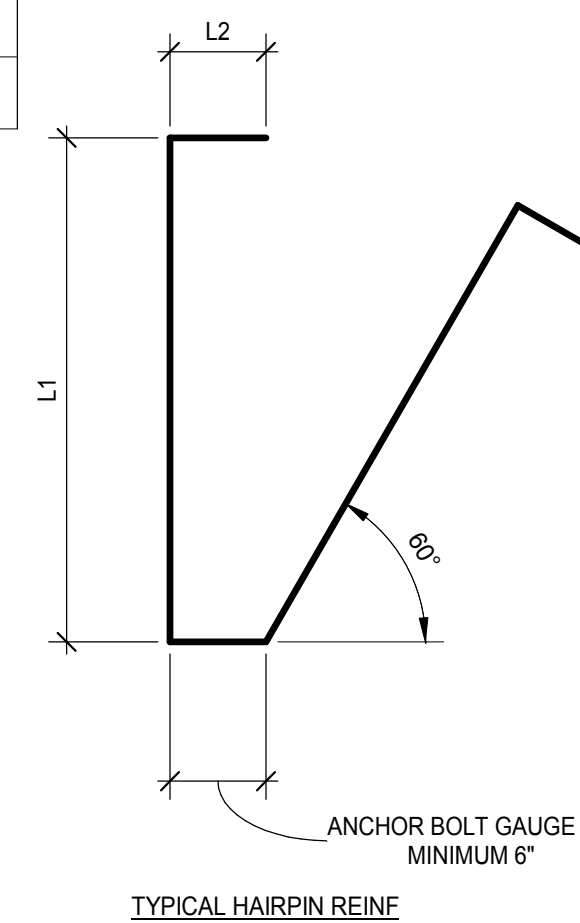
6 TYPICAL EXTERIOR COLUMN WITH HAIRPIN AT MEZZANINE
SCALE = 3/4" = 1'-0"

HAIRPIN REBAR DIMENSIONS (IN)

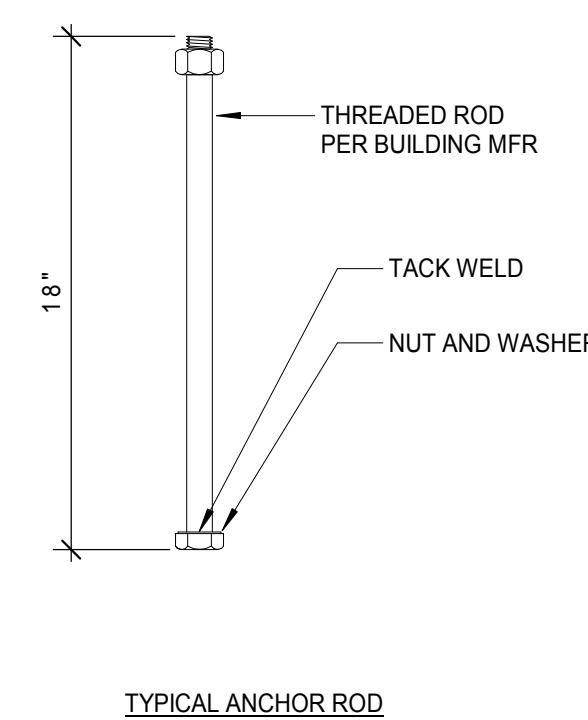
SIZE	#4	#5	#6	#7	#8	#9	#10
L1	42	45	48	54	66	84	96
L2	8	10	12	14	16	18	20



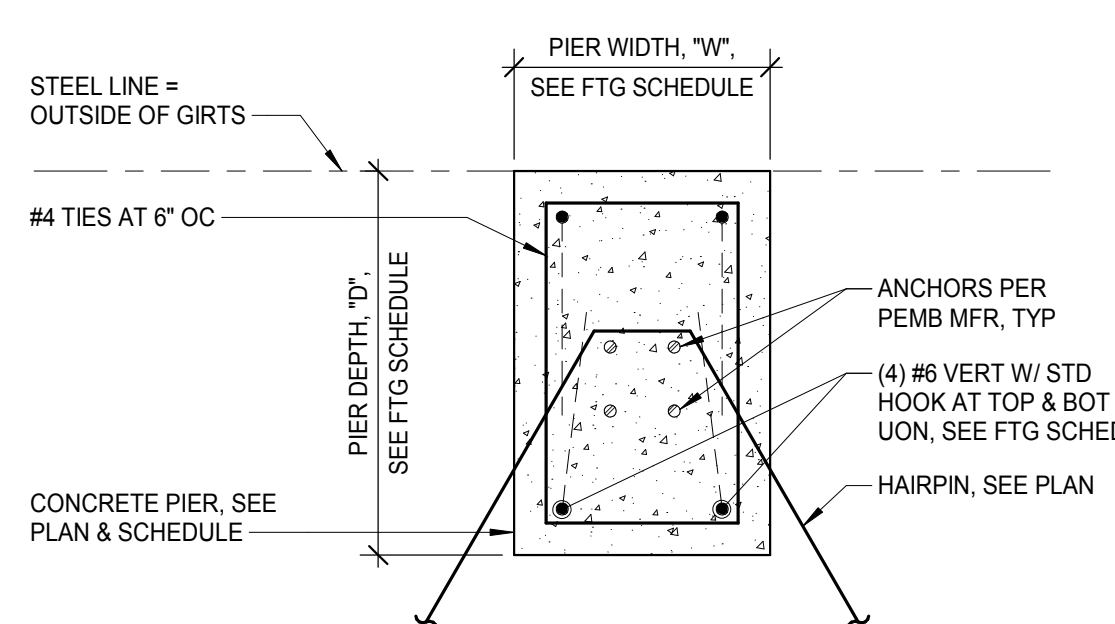
TYPICAL HAIRPIN REINF



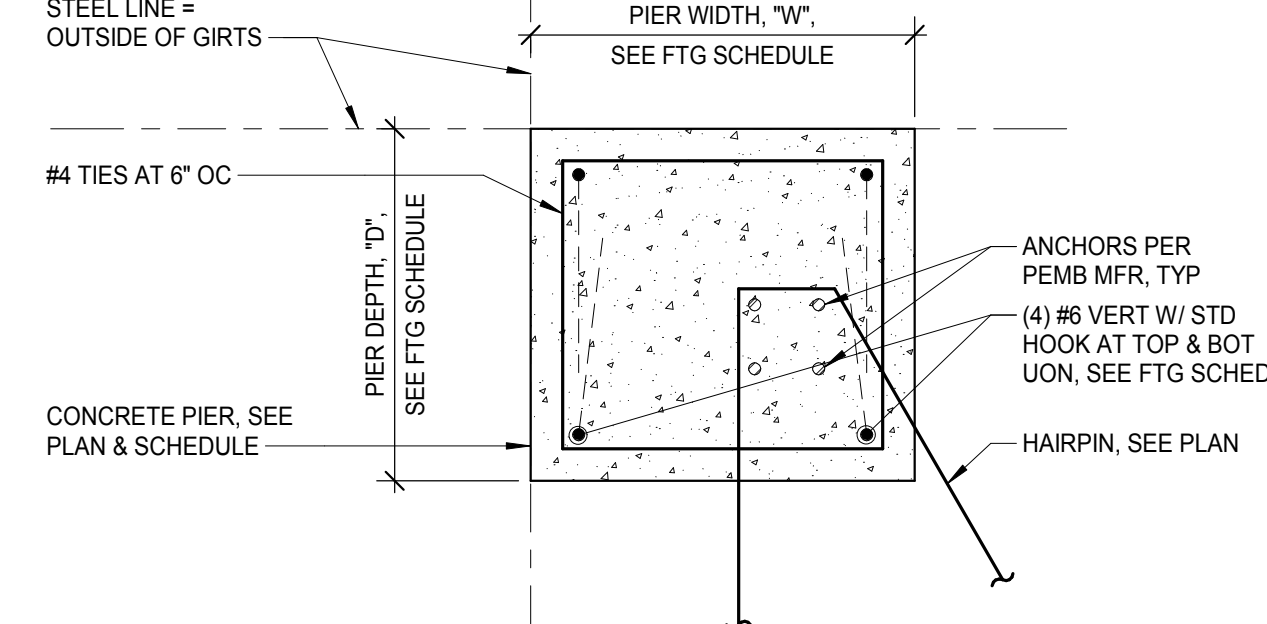
TYPICAL HAIRPIN REINF



TYPICAL ANCHOR ROD

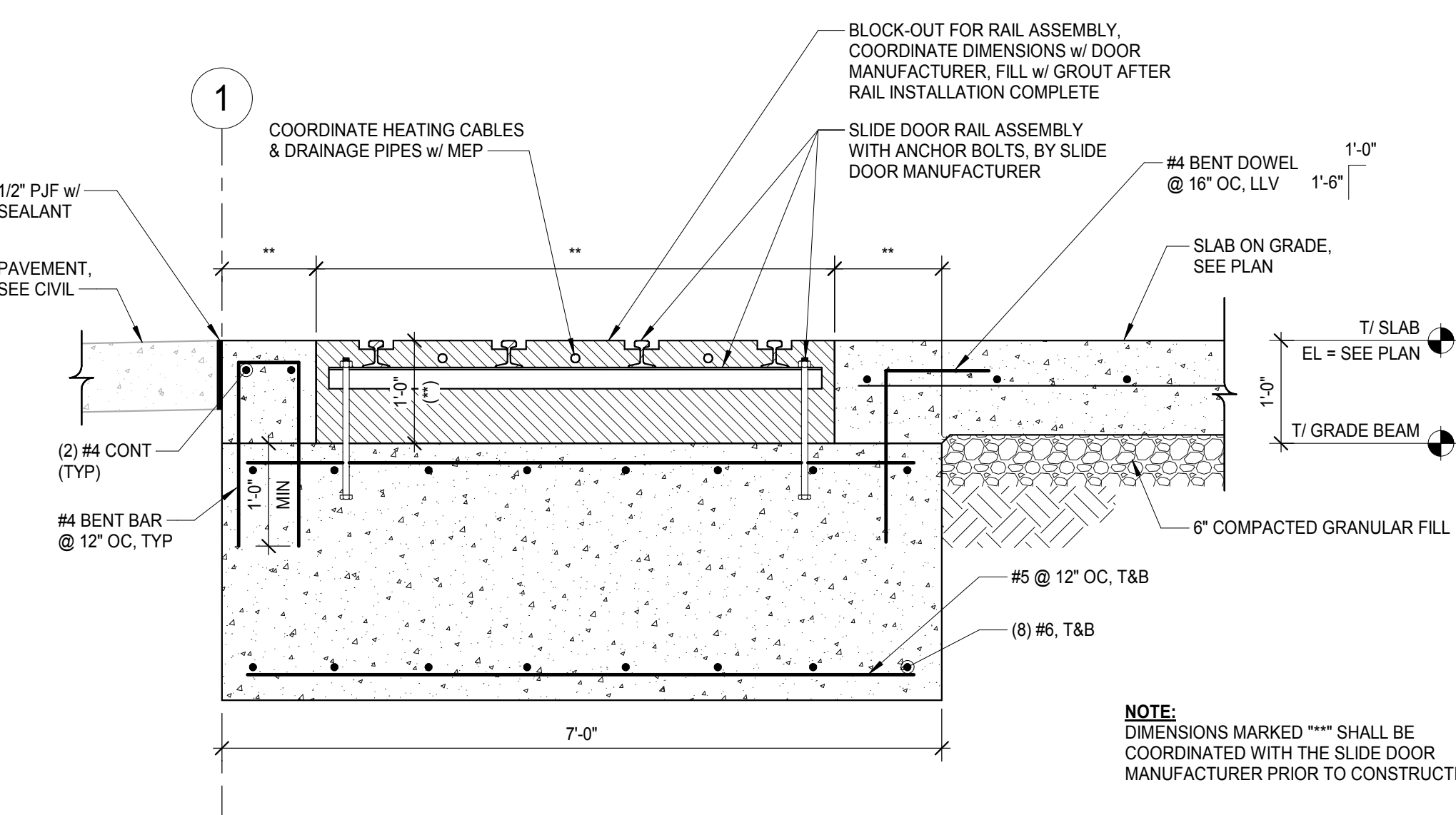


7 SIDE PIER WITH HAIRPIN
SCALE = 1" = 1'-0"

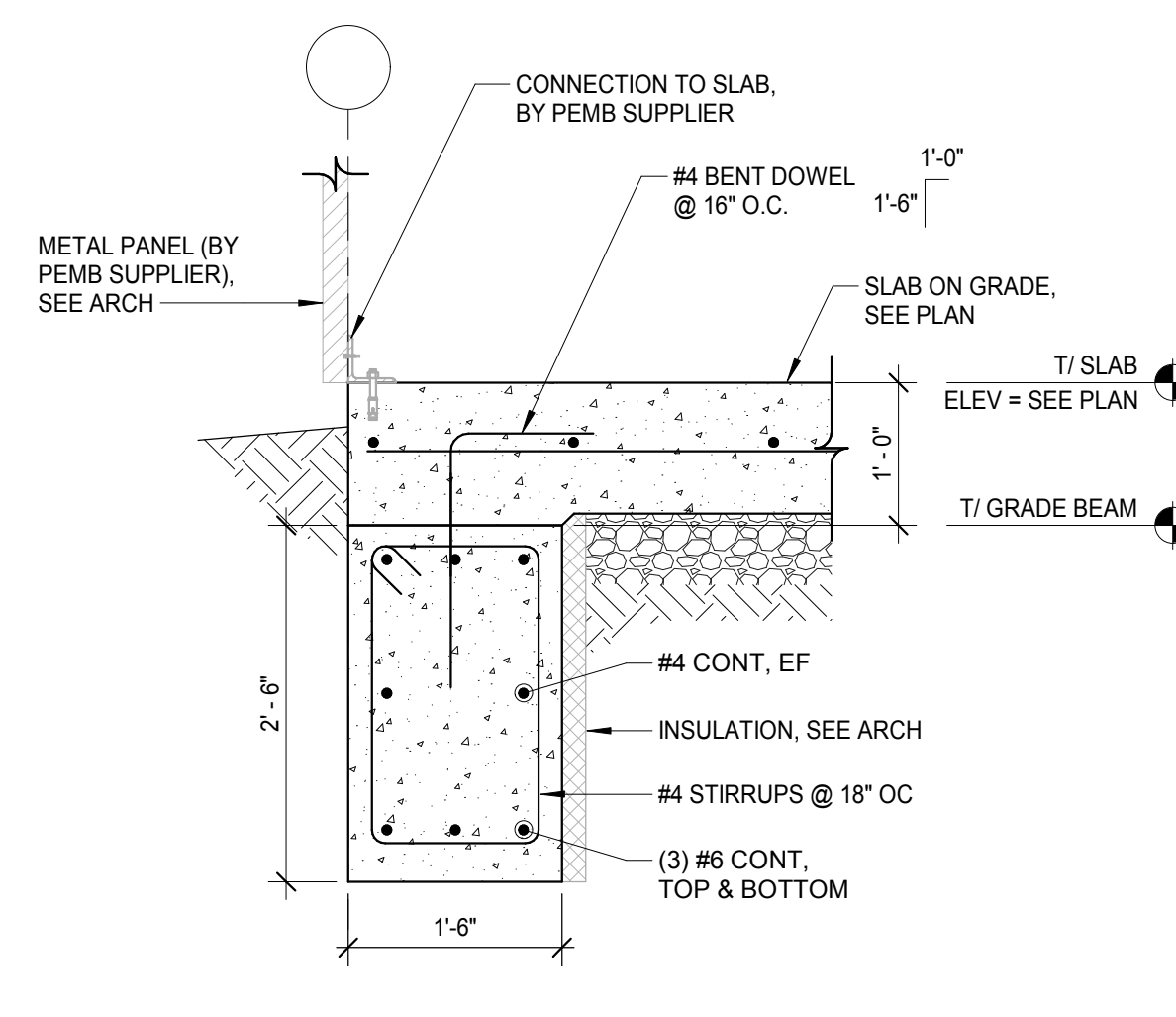


8 CORNER PIER WITH HAIRPIN
SCALE = 1" = 1'-0"

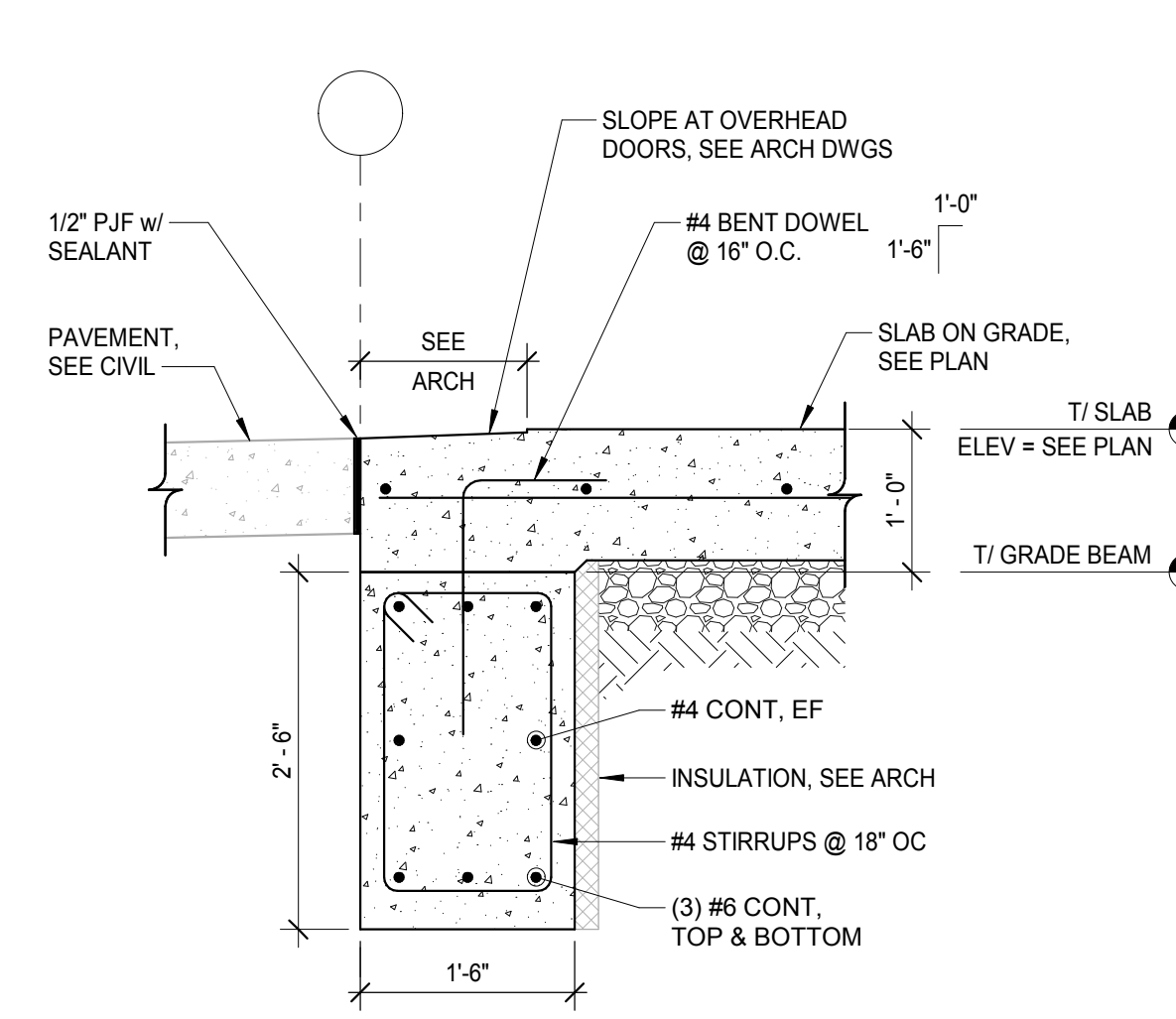
9 TYPICAL REINFORCEMENT DETAILS
SCALE = 3/4" = 1'-0"



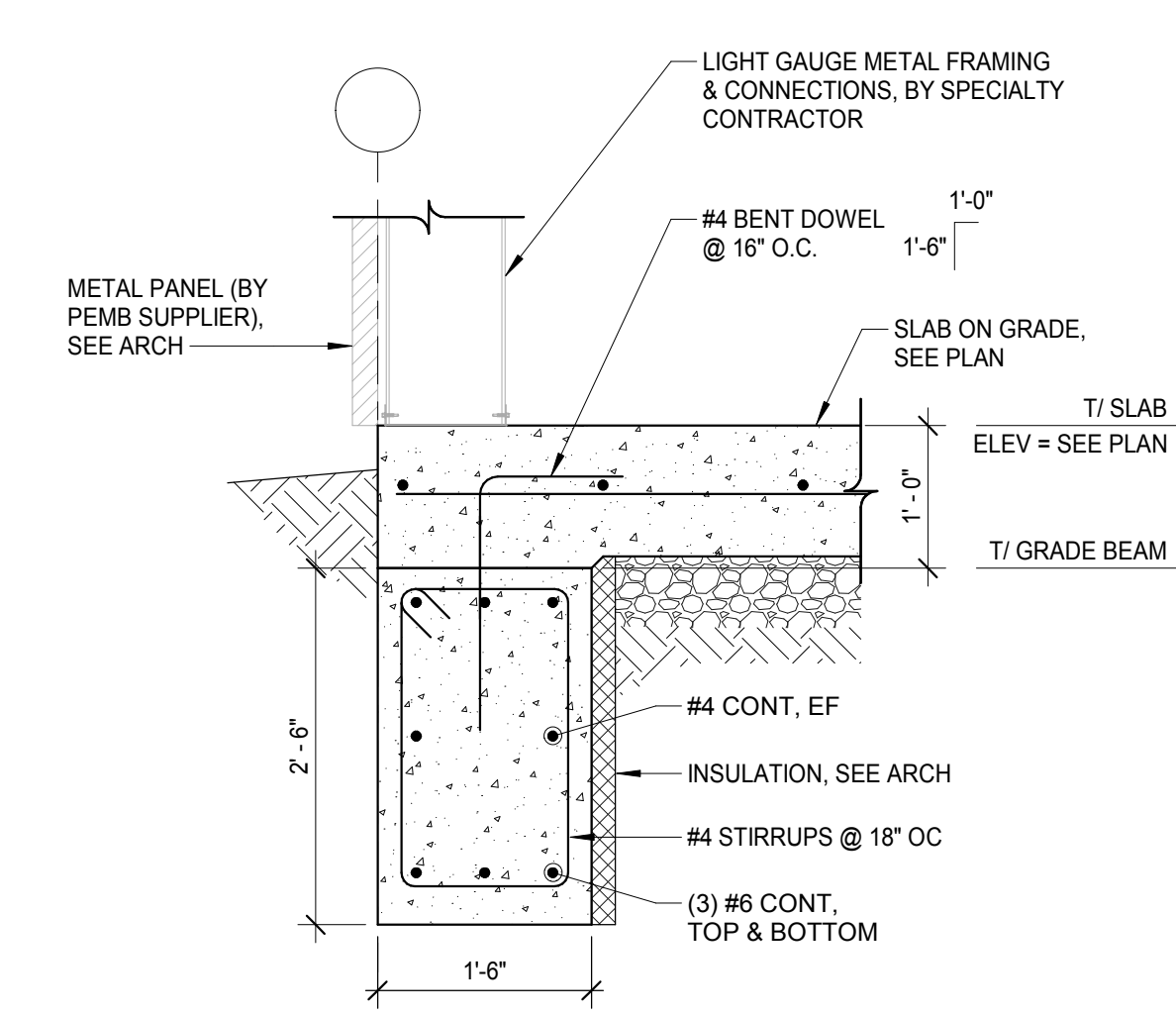
10 SECTION
SCALE = 3/4" = 1'-0"



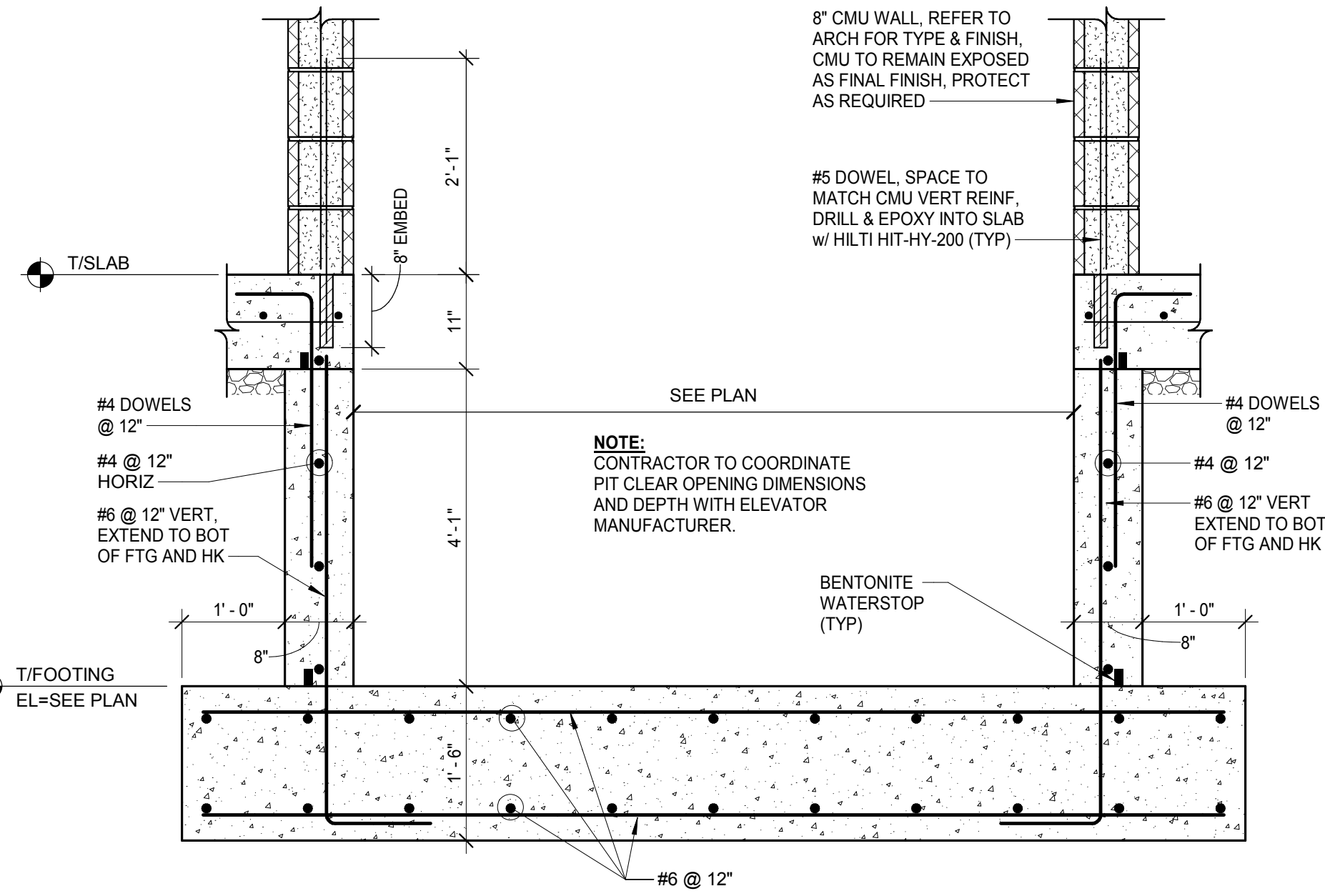
11 SECTION
SCALE = 3/4" = 1'-0"



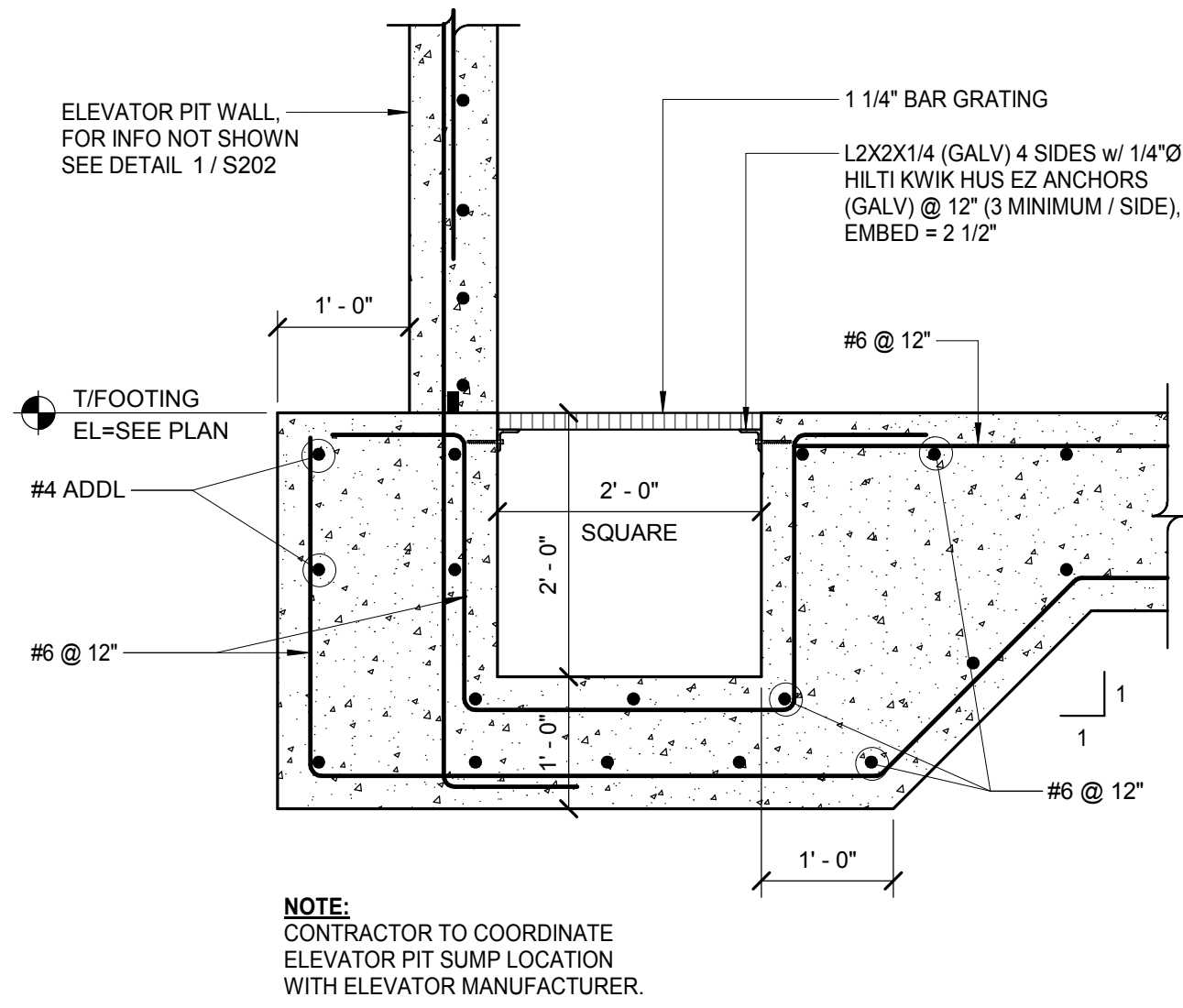
12 SECTION
SCALE = 3/4" = 1'-0"



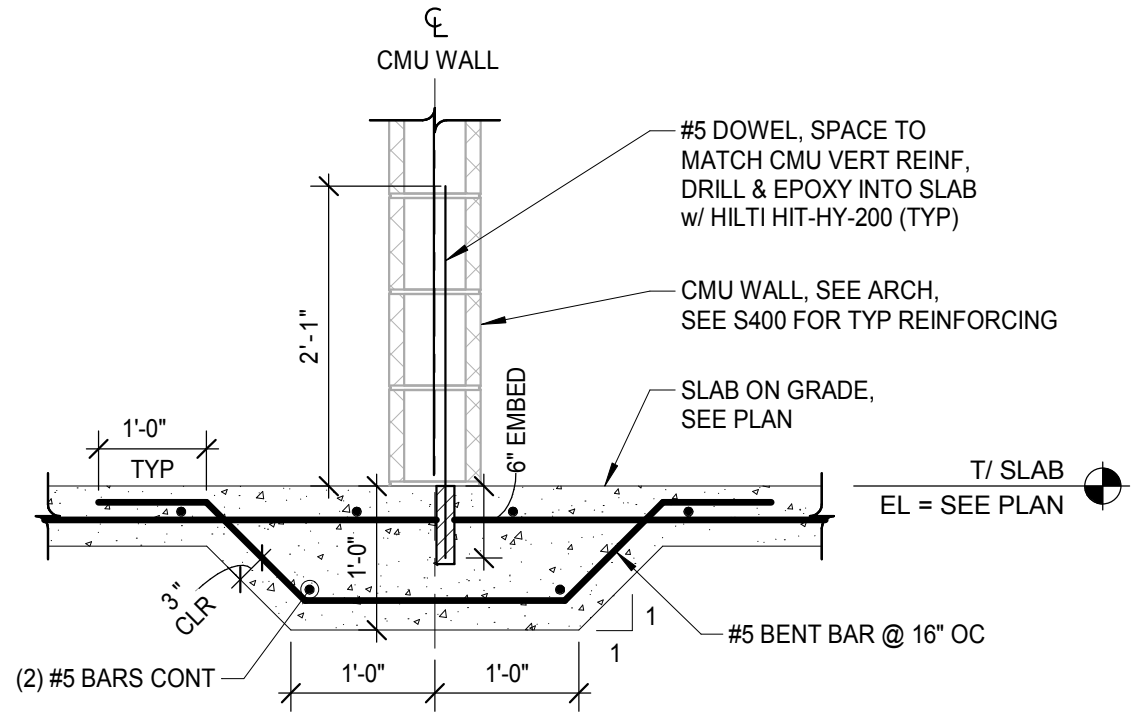
13 SECTION
SCALE = 3/4" = 1'-0"



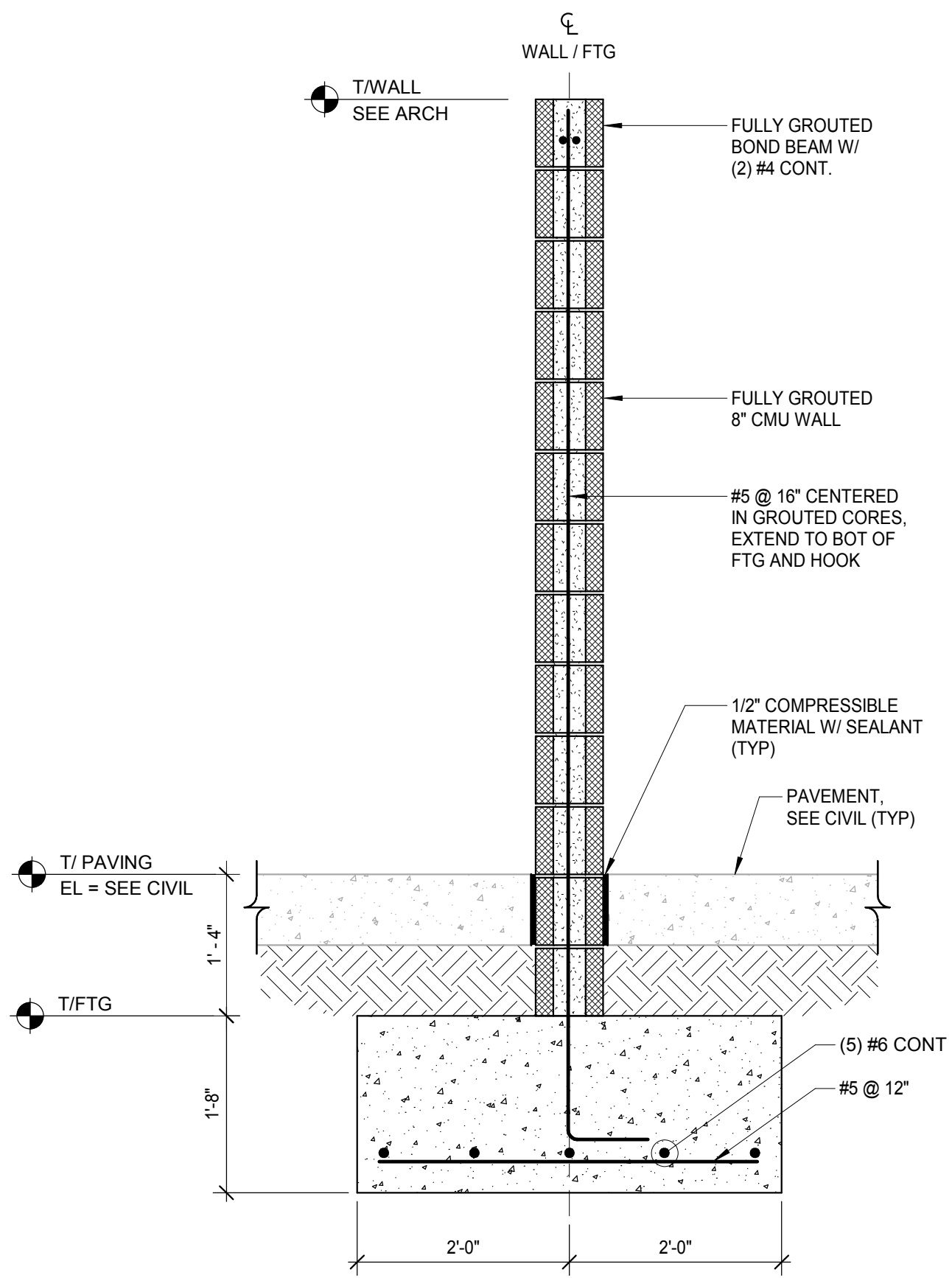
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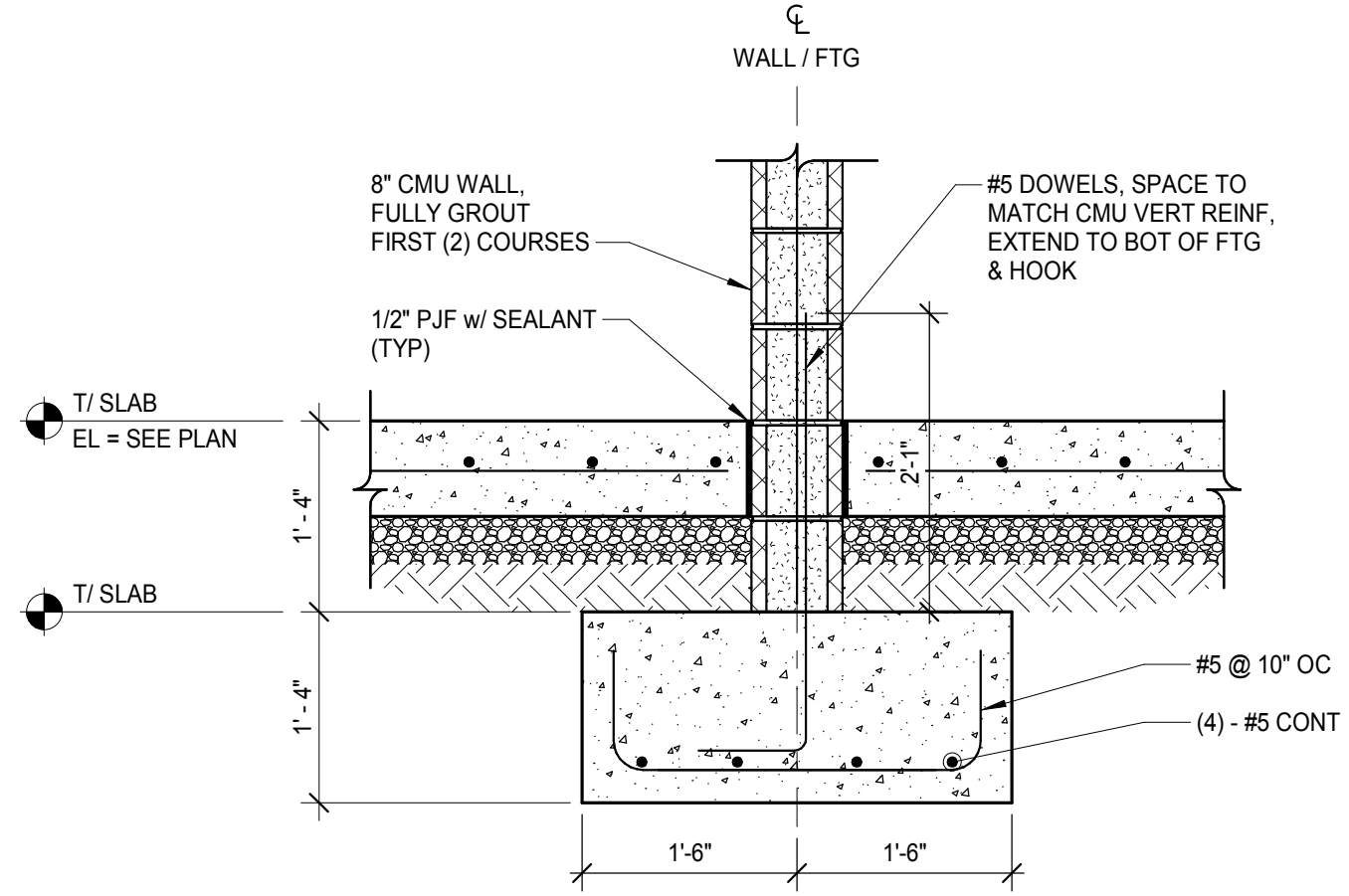
2 SECTION
SCALE = 3/4" = 1'-0"



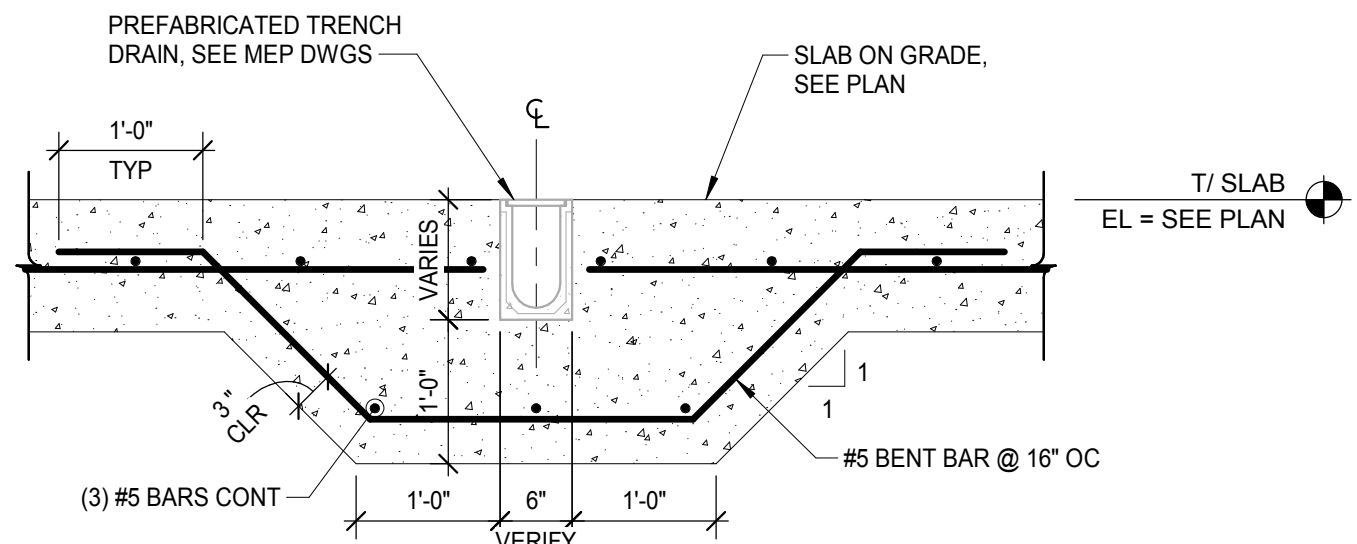
3 SECTION
SCALE = 3/4" = 1'-0"



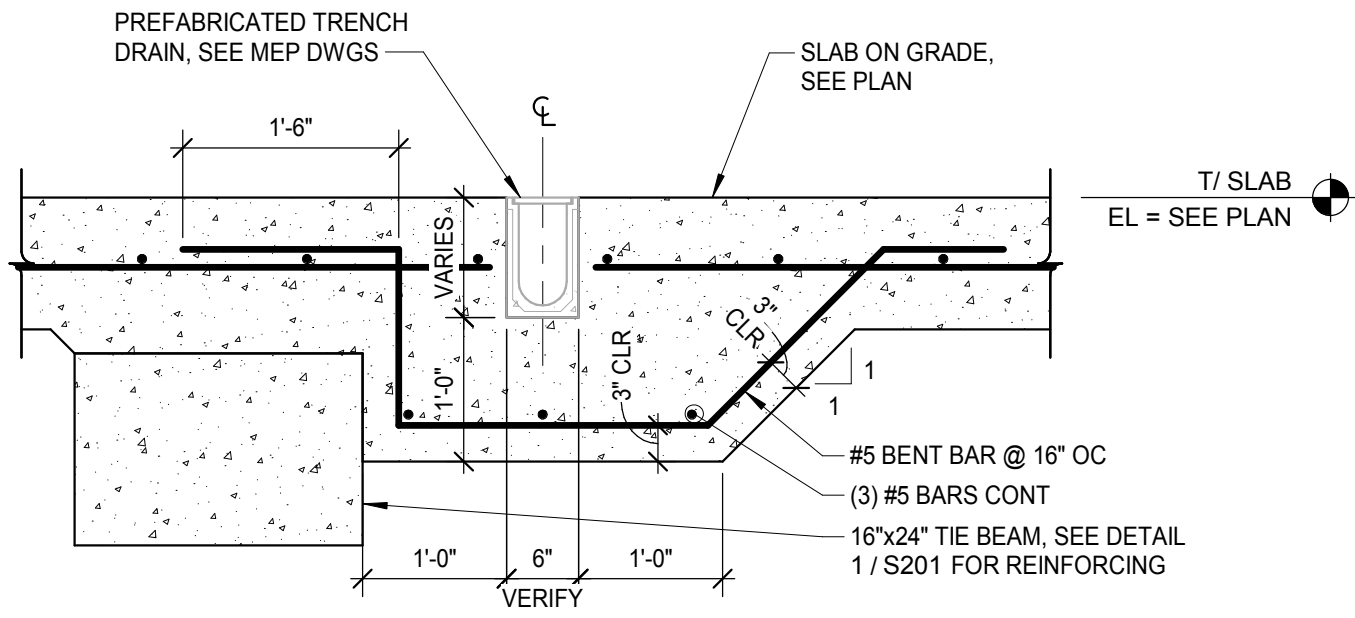
4 SECTION
SCALE = 3/4" = 1'-0"



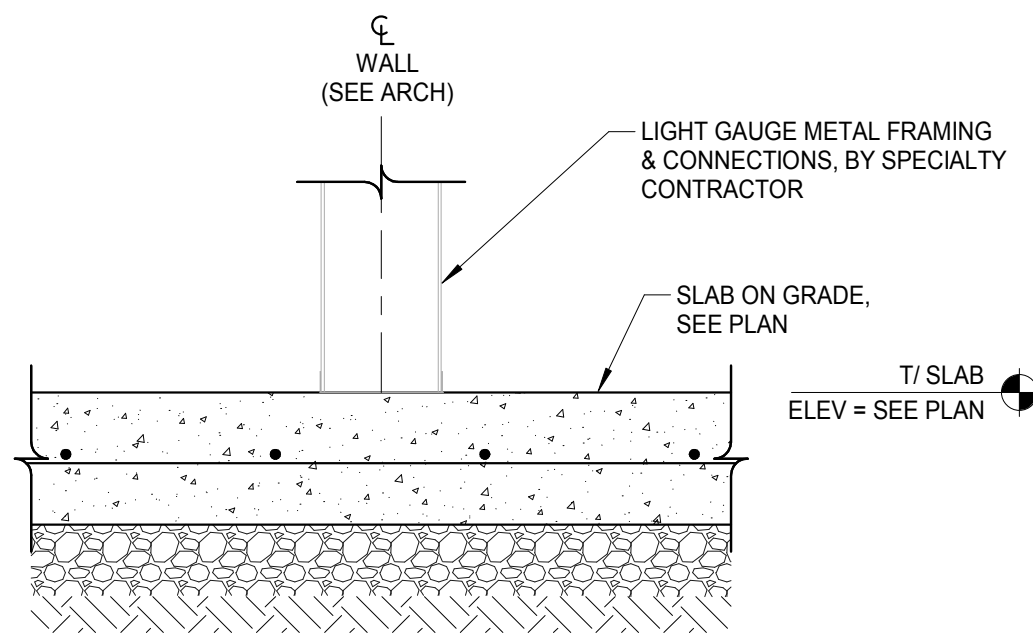
5 SECTION
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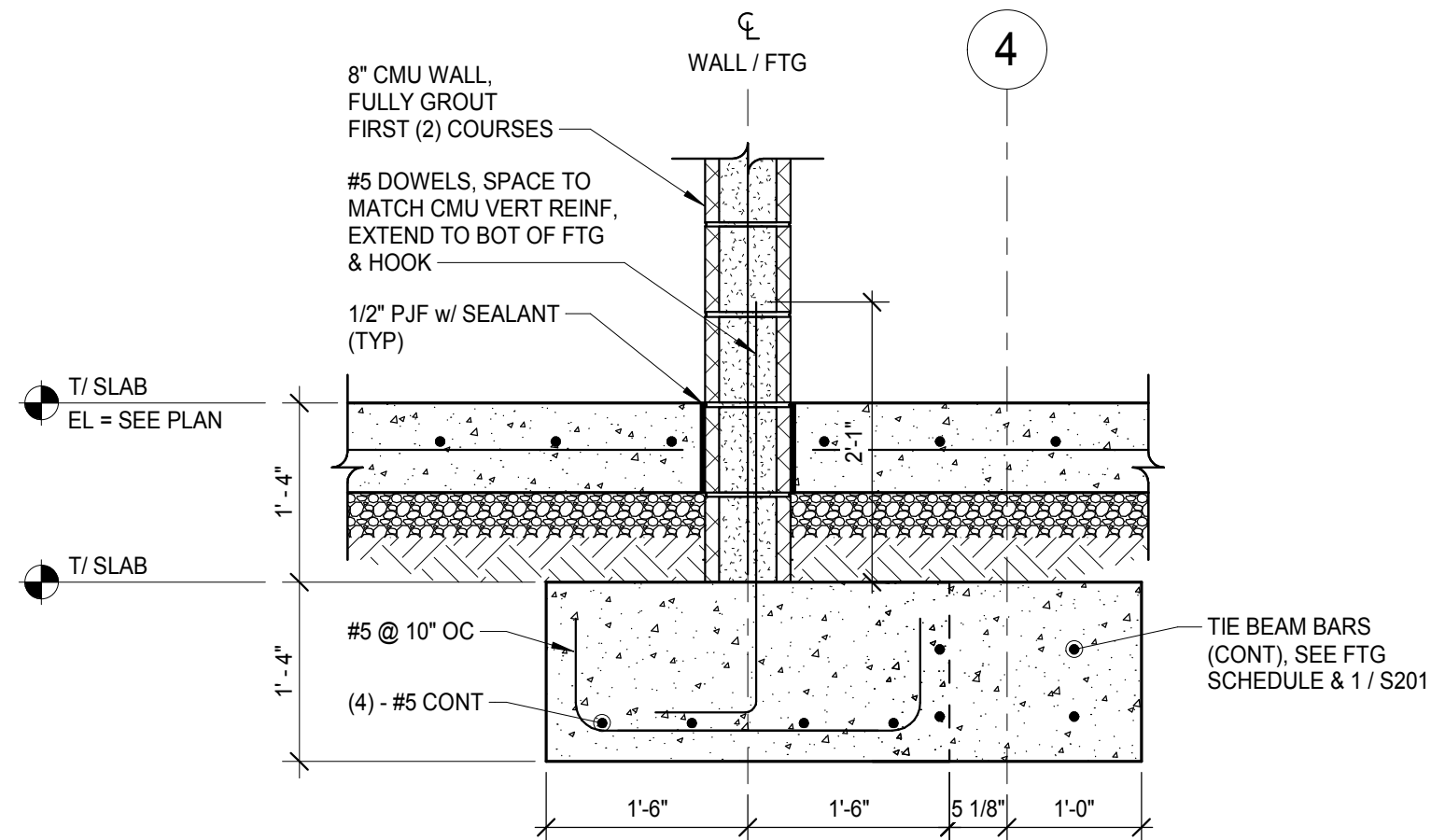
6 SECTION
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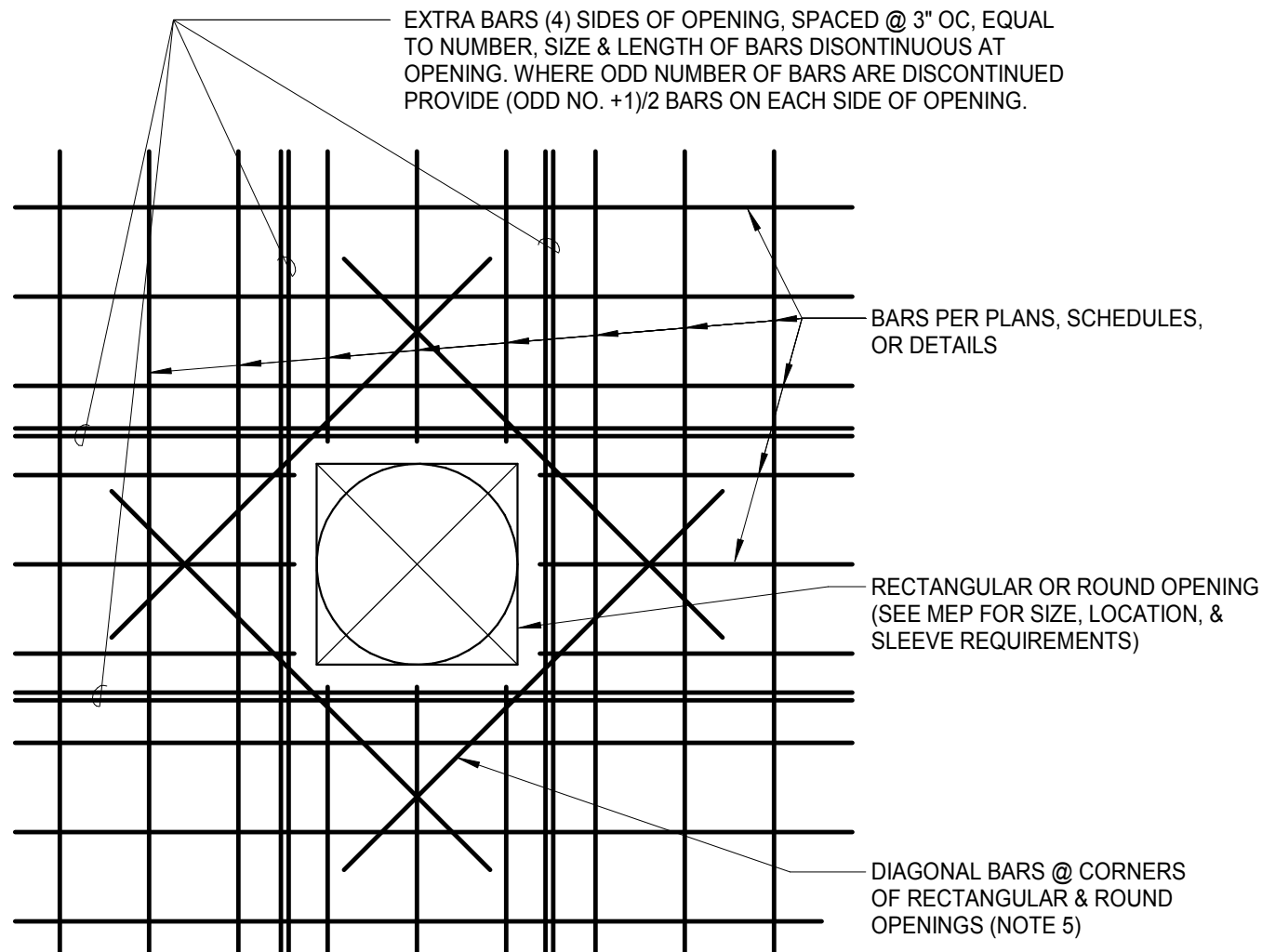
7 SECTION
SCALE = 3/4" = 1'-0"



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



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



10 TYPICAL REINFORCING AT OPENINGS IN SLABS & FOOTINGS
SCALE = 3/4" = 1'-0"



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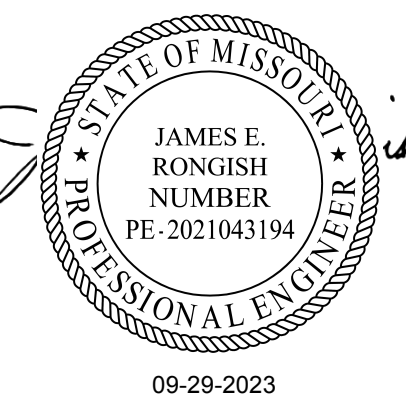
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LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



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LEES SUMMIT, MO

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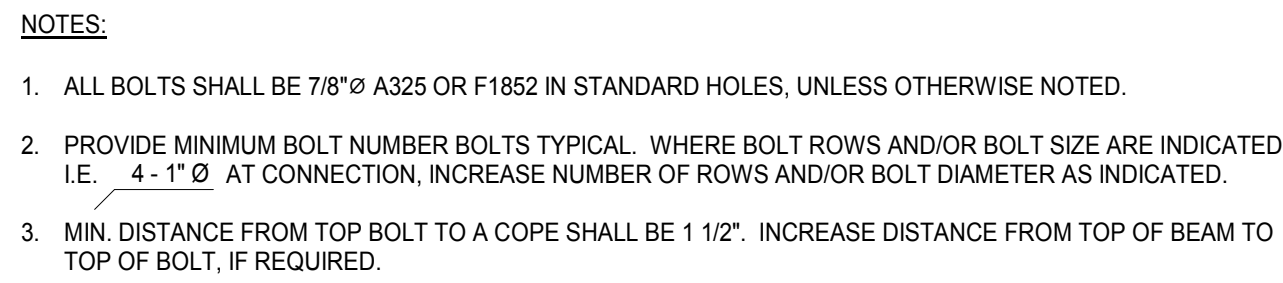
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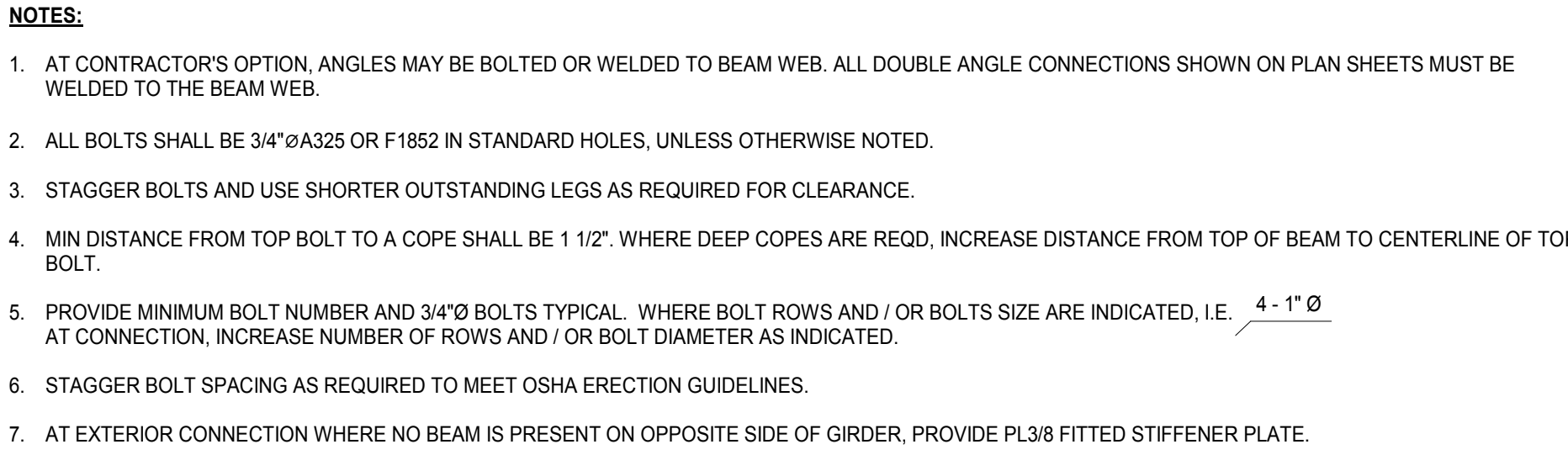
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S202

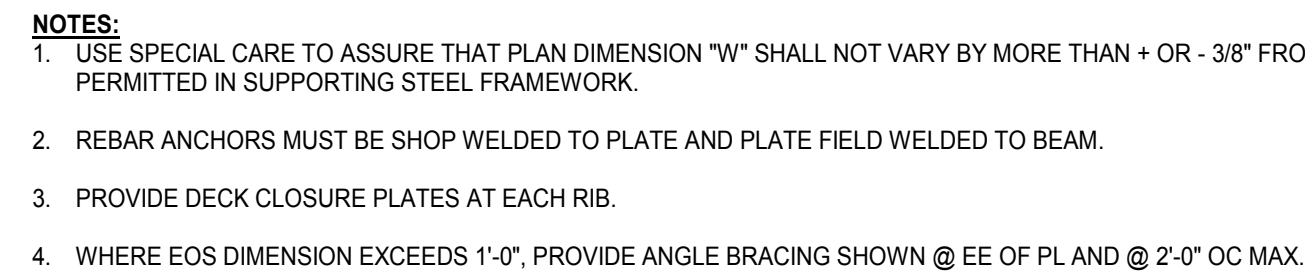
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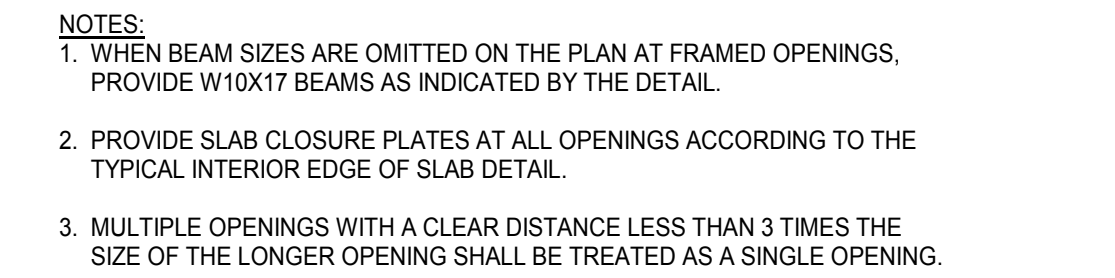
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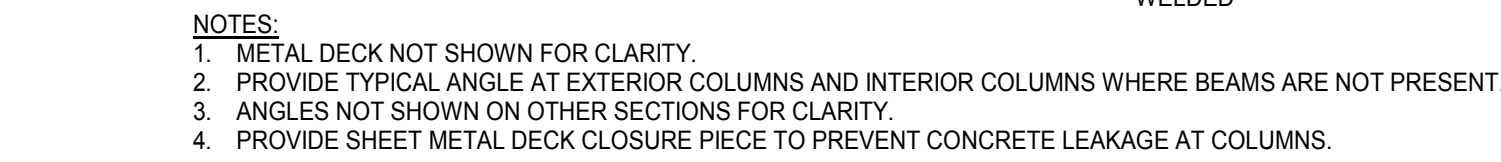
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5



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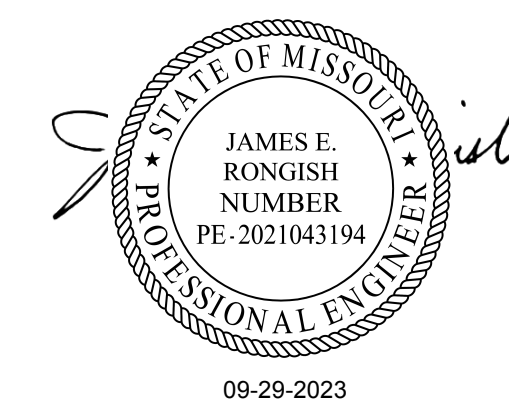
7



1. STUDY PROPERTIES :
DIAMETER: $\frac{3}{8}$ "
HEIGHT AFTER WELDING: $\frac{4}{16}$, $\frac{1}{2}$ " DECK
 $\frac{1}{16}$, $\frac{1}{8}$ " PERK
 $\frac{1}{2}$ ", $\frac{1}{16}$ " DECK
2. WHEN A SINGLE NUMBER IN PARENTHESES (N) IS INDICATED ON THE FRAMING PLAN BESIDE A BEAM OR GIRDER THAT NUMBER OF STUDS DIRECTIONAL TO BE PLACED ALONG THE BEAM LENGTH. WHEN MORE THAN ONE NUMBER IN PARENTHESES (N1,N2) ETC. IS SHOWN BESIDE A BEAM OR GIRDER EACH NUMBER INDICATES THE REQUIRED NUMBER OF STUDS TO BE PLACED WITHIN THAT SEGMENT OF THE BEAM OR GIRDER I.E. SEGMENTS OF GIRDER DEFINED BY INTERSECTING BEAMS).
3. WHEN DECK RIBS ARE PARALLEL, AND THE STUD SPACING IS NOT SEGMENTED, SPACE STUDS EQUALLY ALONG GIRDER CENTERLINE. AS THE NUMBER OF STUDS INCREASES, THEREFORE THE SPACING BETWEEN STUDS BECOMES LESSER. IF THE STUDS IS GREATER THAN 1'-0" SPACING PERMITS, DIVIDE REMANDER AND BEGINNING AT EACH END, INSTALL STUDS AT 1'-0" LONG GIRDERS THROUGHOUT. STUDS REQUIRED NUMBER OF STUDS ARE PROVIDED.
4. WHEN THE DECK RIBS ARE PARALLEL, AND THE STUD SPACING IS "SEGMENTED" SPACE THE STUDS EQUALLY ALONG THE GIRDER CENTERLINE OVER THAT SEGMENT. WHEN THE LENGTH OF A SINGLE ROW OF STUDS BECOMES LESS THAN N", PROVIDE DOUBLE STUDS EQUALLY SPACED. SEGMENTED STUD SPACING IS INDICATED IN THE BEAM CALL-OUT WHERE MORE THAN ONE NUMBER IS SHOWN FOR THAT BEAM. (E.G. 1'2" C. FOR THIS CONDITION, N1 IS 5, N2 IS 8 & N3 IS 11. ETC. SEGMENTS ARE BEAM SPACING FROM LEFT TO RIGHT AS THE BEAM CALL-OUT IS READ. THE TOTAL NUMBER OF STUDS IS THE SUM OF THE NUMBER IN PARENTHESIS.
5. WHEN DECK RIBS ARE PERPENDICULAR, SPACE STUDS AT 3'-0" O.C. ALONG CENTERLINE OF BEAM. DIVIDE REMANDER OF STUDS AND BEGINNING AT EACH END, PLACE STUDS AT 1'-0" C. UNTIL REQUIRED NUMBER OF STUDS ARE PROVIDED. WHEN NUMBER OF STUDS EXCEED THE 1'-0" SPACING, BEGINNING AT EACH END PLACE TWO STUDS AT 1'-0" O.C. UNTIL REQUIRED NUMBER OF STUDS ARE PROVIDED.
6. CHALK BEAM CENTERLINE WHEN DECK SPAN IS PERPENDICULAR.
7. PREPARE STUD PLACEMENT DRAWING AND INCLUDE TOTAL NUMBER OF STUDS REQUIRED FOR EACH BEAM AND LOCATION OF STUDS DIMENSIONED TO BEAM CENTERLINE AND GIRDER CENTERLINES. PROVIDE STRUCTURAL ENGINEER ONE COPY FOR RECORD.
8. WHEN NO STUDS ARE SHOWN, PROVIDE STUDS ON ALL BEAMS W/2 AND LARGER AT 12" O.C.
9. STAGGER SINGLE STUDS FOR COMPOSITE JOIST.

STU

**EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472**

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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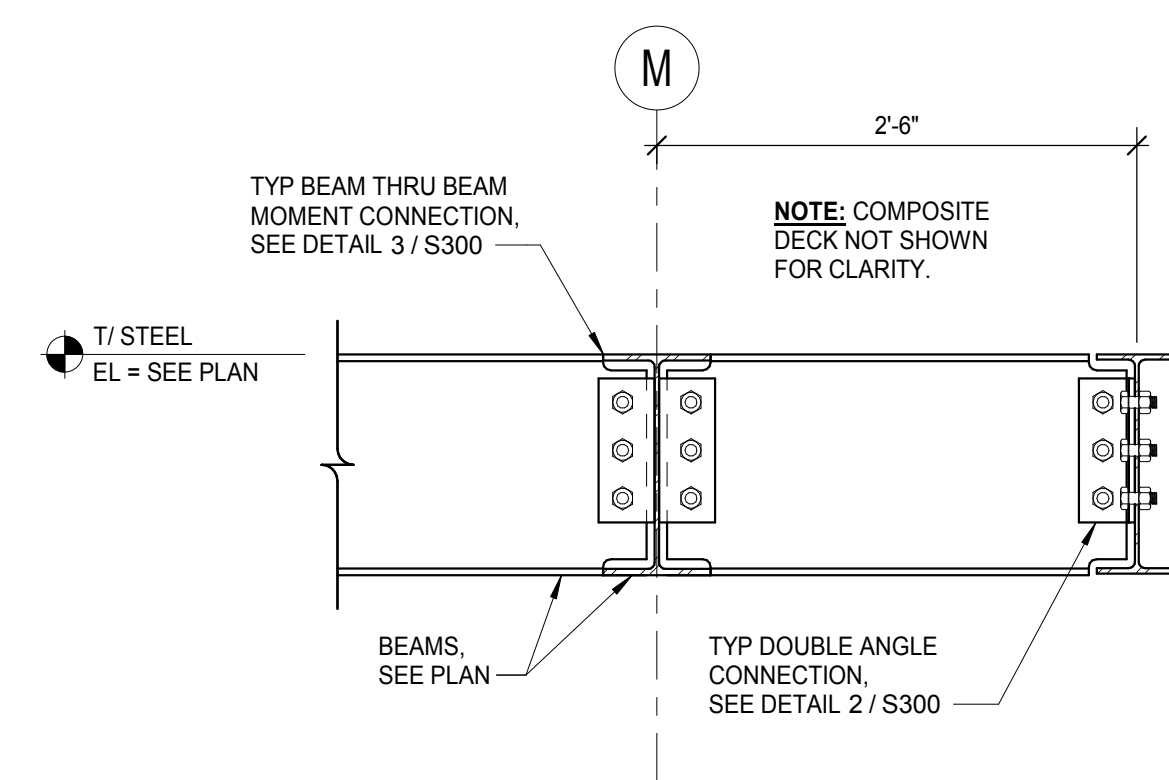
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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JER
DRAWN BY:	JER
CHECKED BY:	CWS
APPROVED BY:	CWS
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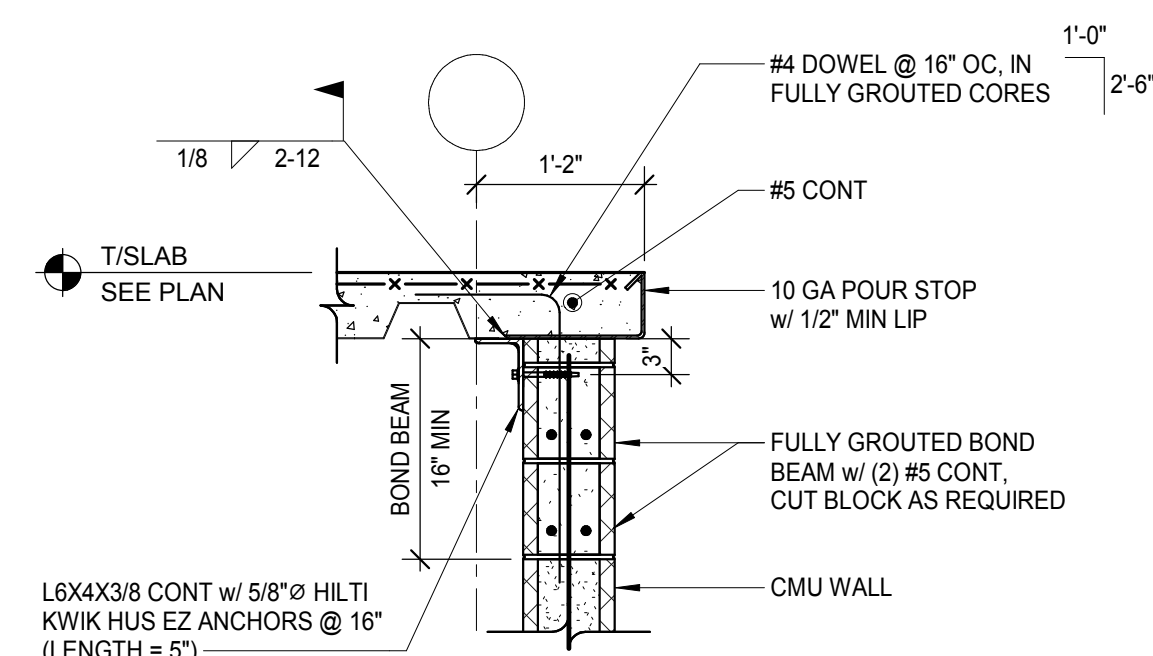
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S301

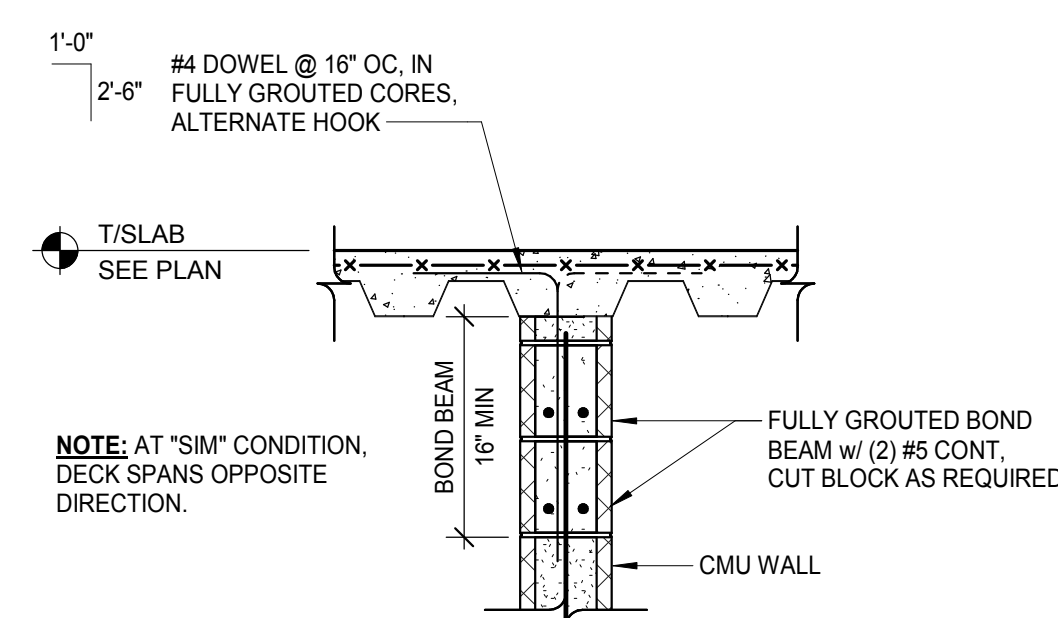
SHEET 092 OF 131



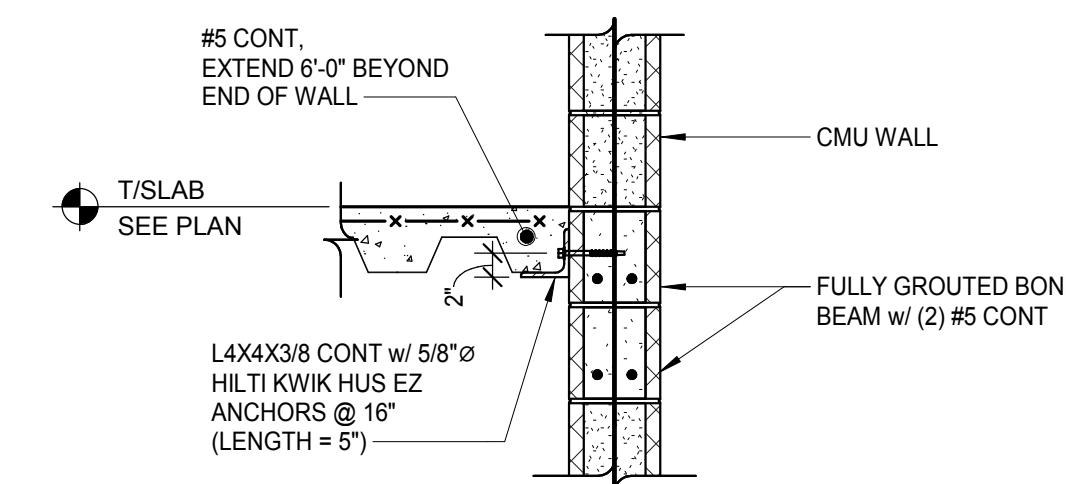
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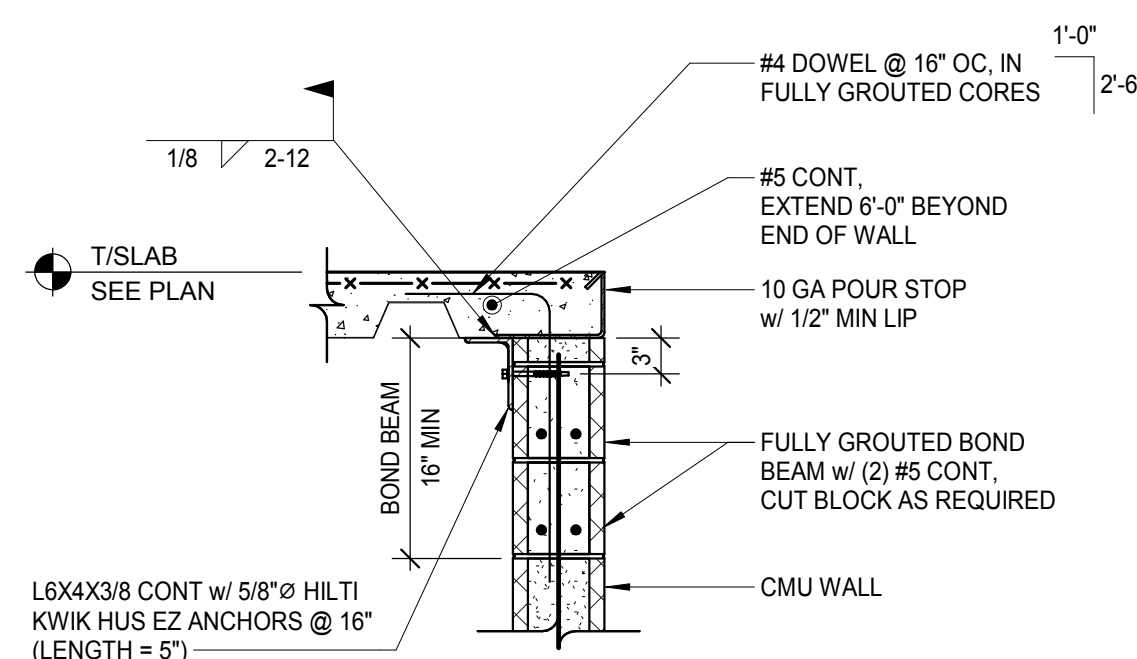
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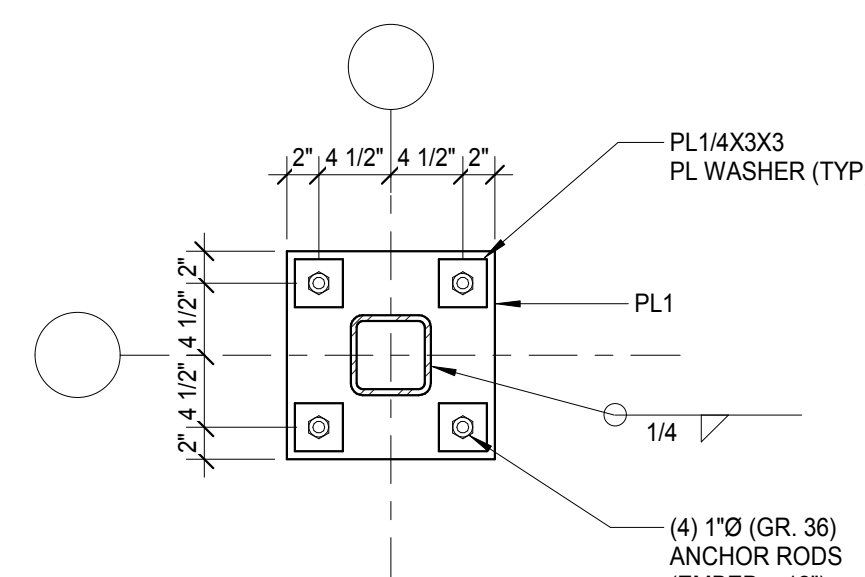
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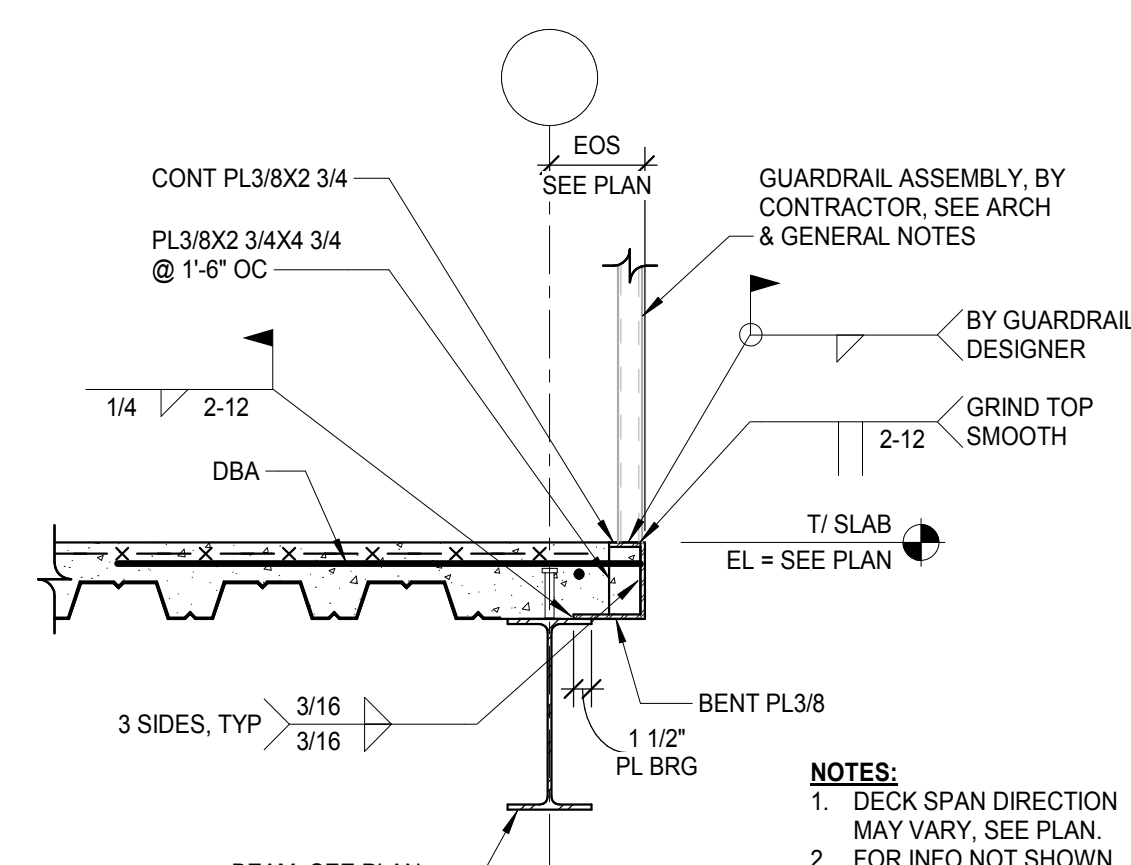
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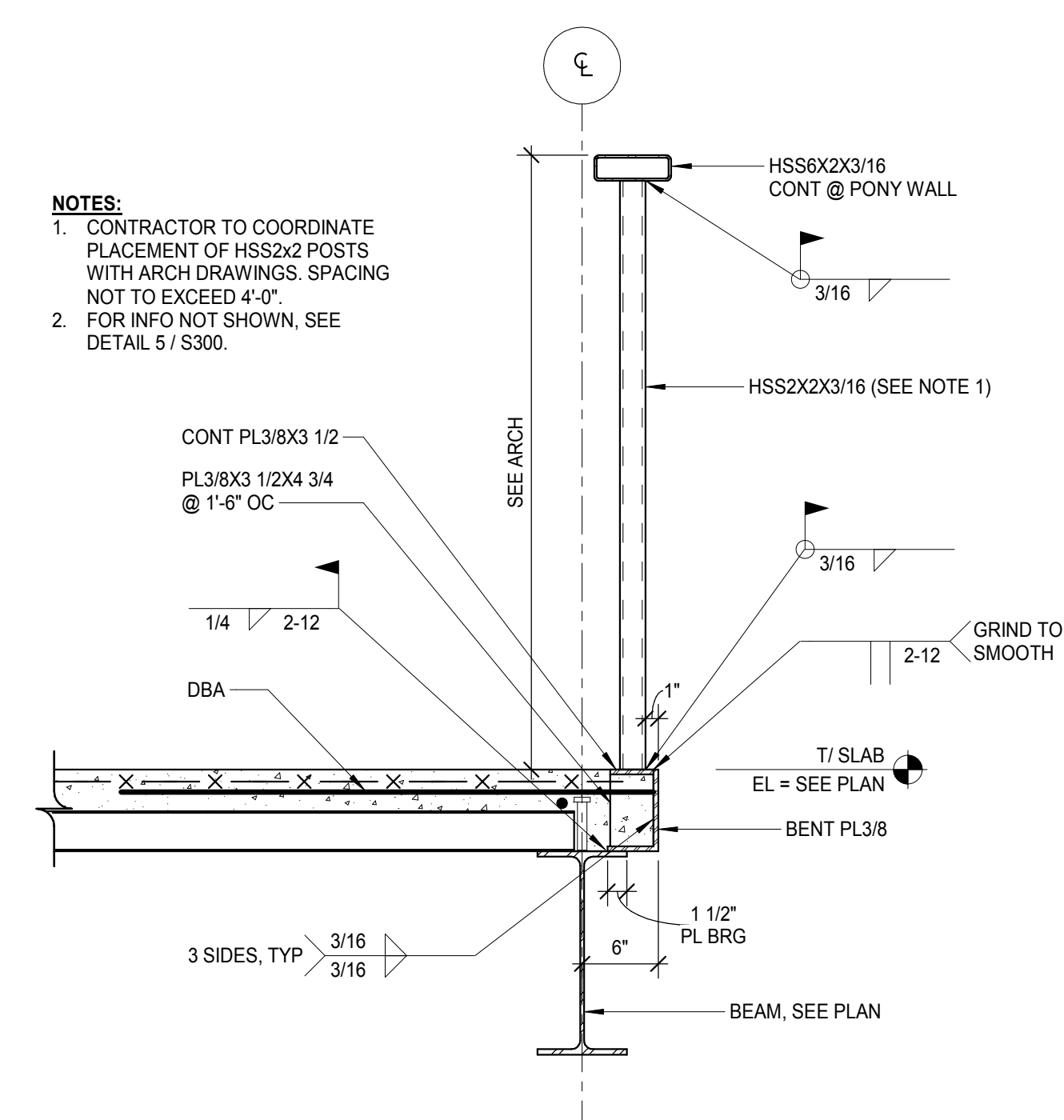
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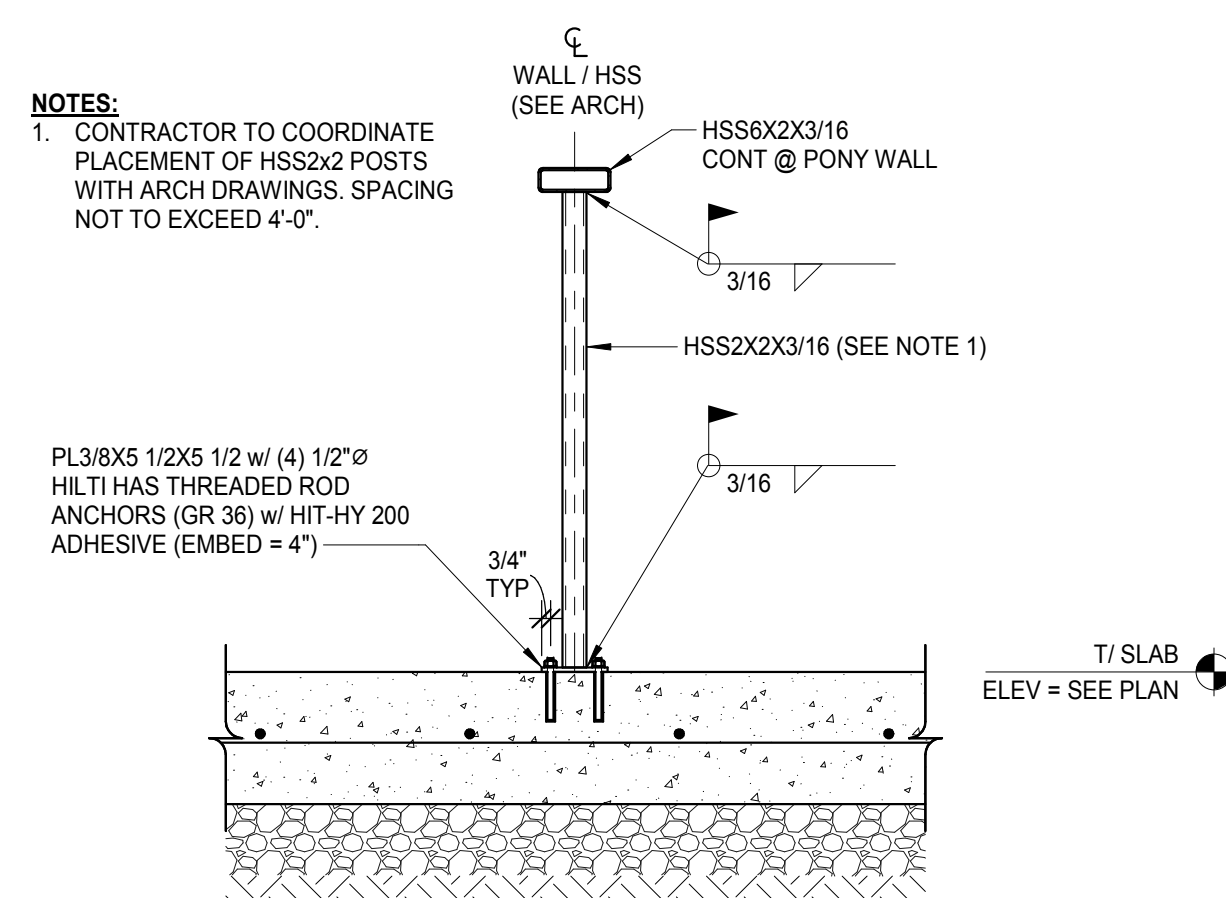
6 BASEPLATE 'BP1'
SCALE = 1" = 1'-0"



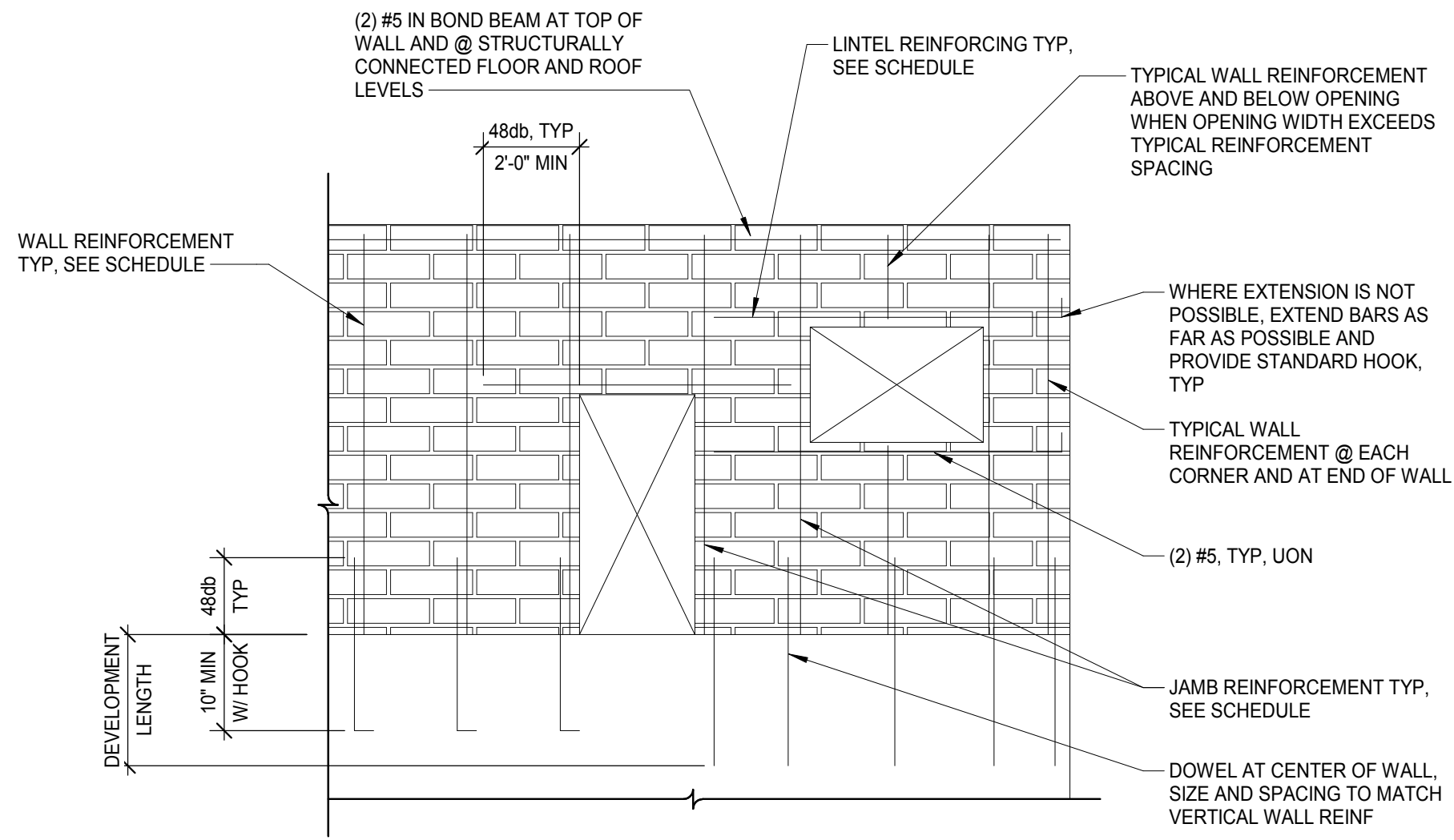
7 SECTION
SCALE = 3/4" = 1'-0"



8 SECTION
SCALE = 1" = 1'-0"

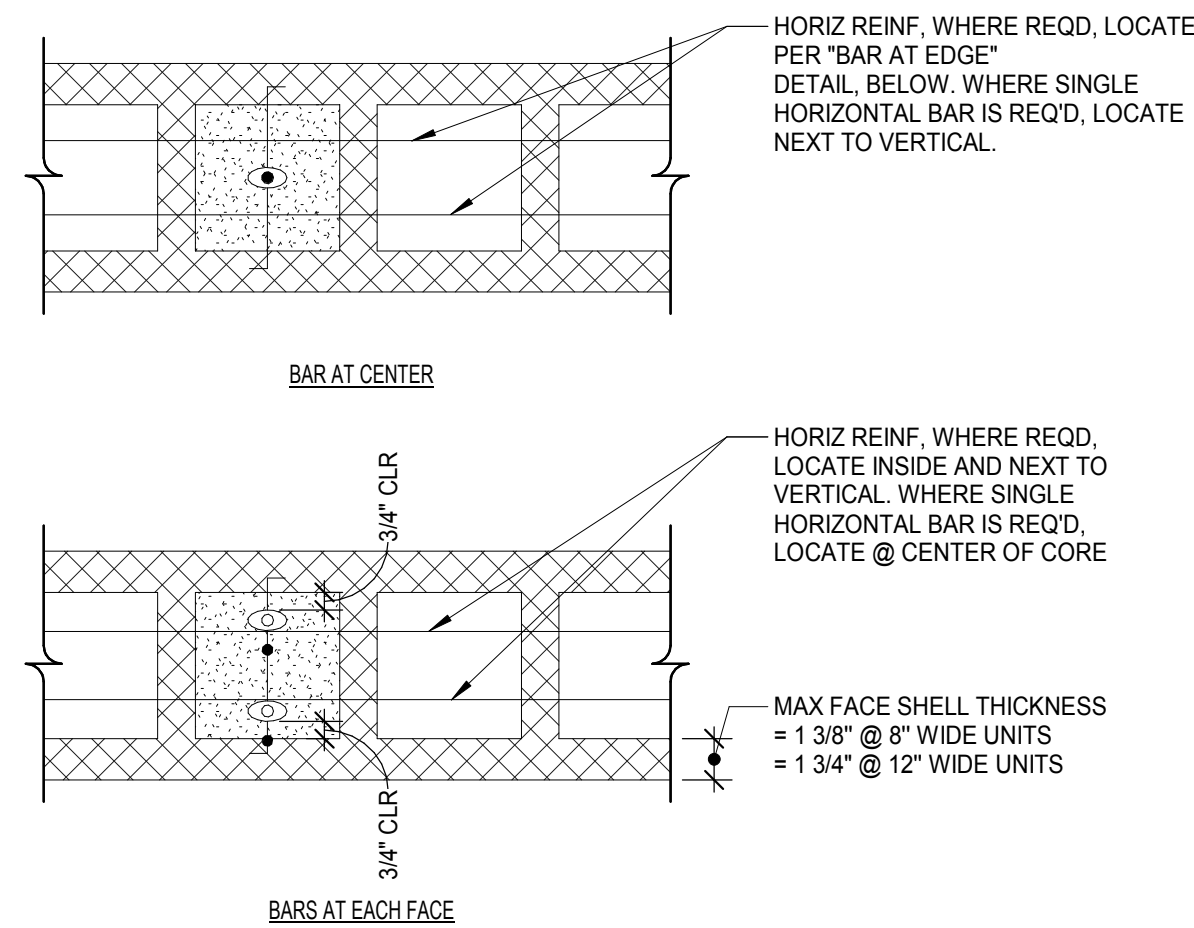


9 SECTION
SCALE = 3/4" = 1'-0"



1 TYPICAL MASONRY REINFORCEMENT ELEVATION

SCALE = 1" = 1'-0"



2 TYPICAL MASONRY WALL REINFORCING PLACEMENT & SCHEDULE

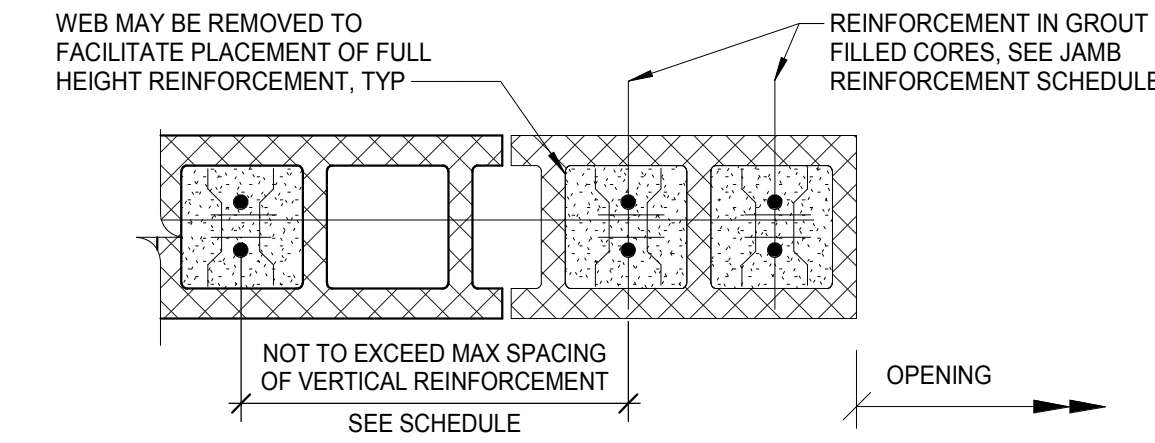
SCALE = 1 1/2" = 1'-0"

MINIMUM CMU WALL REINFORCING SCHEDULE		
CMU SIZE	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN	#5 BARS @ 32" OC CENTERED IN WALL	LADDER TYPE JOINT REINFORCEMENT AT 16" CENTERS
12 IN	#5 BARS @ 32" OC EF OF WALL	

NOTES:
1. IN ADDITION TO THE SCHEDULED REINFORCEMENT, WALLS SHALL HAVE A CONTINUOUS BOND BEAM WITH AT LEAST TWO #5 BARS AT OR NEAR THE TOP COURSE, SCHEDULED REINFORCEMENT AT OPENINGS, AND ALL OTHER HORIZONTAL AND VERTICAL REINFORCEMENT AS INDICATED ON THE STRUCTURAL DRAWINGS.
2. ALL WALLS SHALL BE REINFORCED WITH THE MINIMUMS LISTED ABOVE.

JAMB REINFORCING SCHEDULE			
CMU SIZE	MAXIMUM OPENING WIDTH	INTERIOR WALL REINFORCEMENT	EXTERIOR WALL REINFORCEMENT
8 IN	≤ 4' - 0"	TWO CELLS W/ (1) #5 BAR EACH	TWO CELLS W/ (1) #5 BAR EACH
8 IN	4' - 0" < W ≤ 8' - 0"	THREE CELLS W/ (1) #5 BAR EACH	THREE CELLS W/ (1) #5 BAR EACH
12 IN	≤ 8' - 0"	TWO CELLS W/ (1) #5 BAR EACH	TWO CELLS W/ (2) #5 BARS EACH, (1) EA FACE
12 IN	> 8' - 0"	THREE CELLS W/ (1) #5 BAR EACH	FOUR CELLS W/ (2) #5 BARS EACH, (1) EA FACE

NOTES:
1. AN INTERIOR WALL IS A WALL IN WHICH NO PORTION OF THE WALL IS EXPOSED TO THE EXTERIOR.
2. FOR SITUATIONS THAT DO NOT FALL WITHIN THE TABLE ABOVE, CONTACT ENGINEER OF RECORD.



3 TYP MASONRY JAMB PLAN AND REINFORCING SCHEDULE

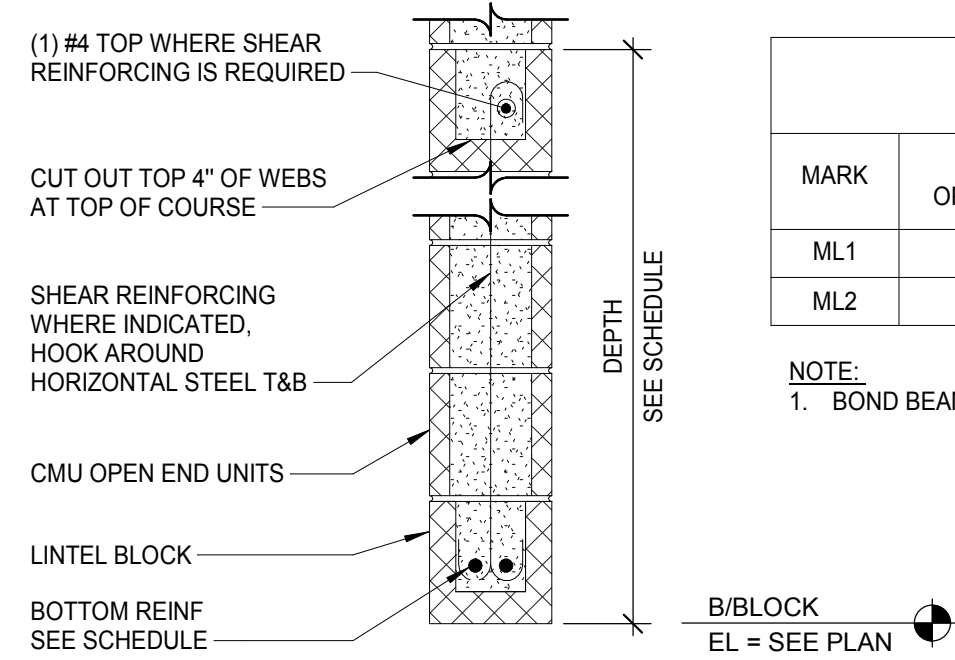
SCALE = 1 1/2" = 1'-0"

MASONRY REINFORCING SPLICE TABLE					
BAR SIZE	(1) BAR PER CELL @ CENTERLINE OF WALL				REMARKS
	6" CMU	8" CMU	10" CMU	12" CMU	
#3	1'-3"	1'-3"	1'-3"	1'-3"	1'-5"
#4	1'-10"	1'-8"	1'-8"	1'-8"	2'-6"
#5	2'-11"	2'-1"	2'-1"	2'-1"	3'-9"
#6	4'-6"	3'-8"	2'-9"	2'-6"	4'-6"
#7	5'-3"	5'-1"	3'-9"	3'-0"	5'-3"
#8	6'-0"	6'-0"	5'-9"	4'-7"	6'-0"

NOTES:
1. MINIMUM MASONRY COMPRESSIVE STRENGTH, f_m = 2,000 PSI
2. MINIMUM MASONRY CLEAR COVER (EDGE OF BAR TO OUTSIDE FACE OF CMU) AT ALL (2) BARS PER CELL CASES = 2"
3. SPLICE LENGTHS ABOVE HAVE BEEN CALCULATED PER PER TMS 402-16 EQUATION 6-1
4. PER IBC 2018 SECTIONS 2107 AND 2108, MINIMUM SPLICE LENGTHS SHALL BE 40 BAR DIAMETERS. MAXIMUM SPLICE LENGTHS NEED NOT EXCEED 72 BAR DIAMETERS.
5. MECHANICAL SPLICES CAPABLE OF DEVELOPING 1.25 x YIELD STRESS OF BAR MAY BE USED IN LIEU OF LAP LENGTHS SHOWN ABOVE FOR ANY BAR SIZE.

4 MASONRY REINFORCING SPLICE TABL

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

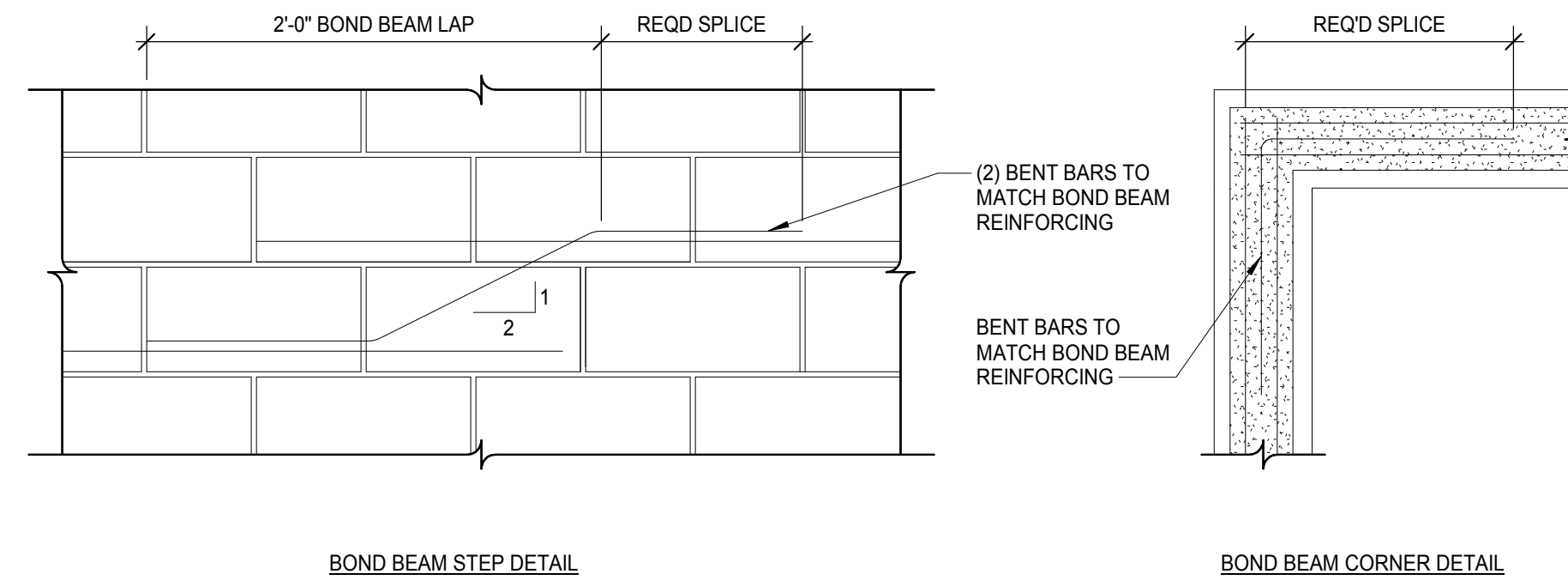


MASONRY LINTEL SCHEDULE				
MARK	MAXIMUM OPENING WIDTH	DEPTH	BOTTOM REINFORCEMENT	SHEAR REINFORCEMENT
ML1	≤ 4'-0"	1'-4"	(2) #5	NONE
ML2	≤ 8'-0"	3'-4"	(2) #5	NONE

NOTE:
1. BOND BEAM REINFORCING SHALL BE CONTINUOUS WITHOUT SPLICES.

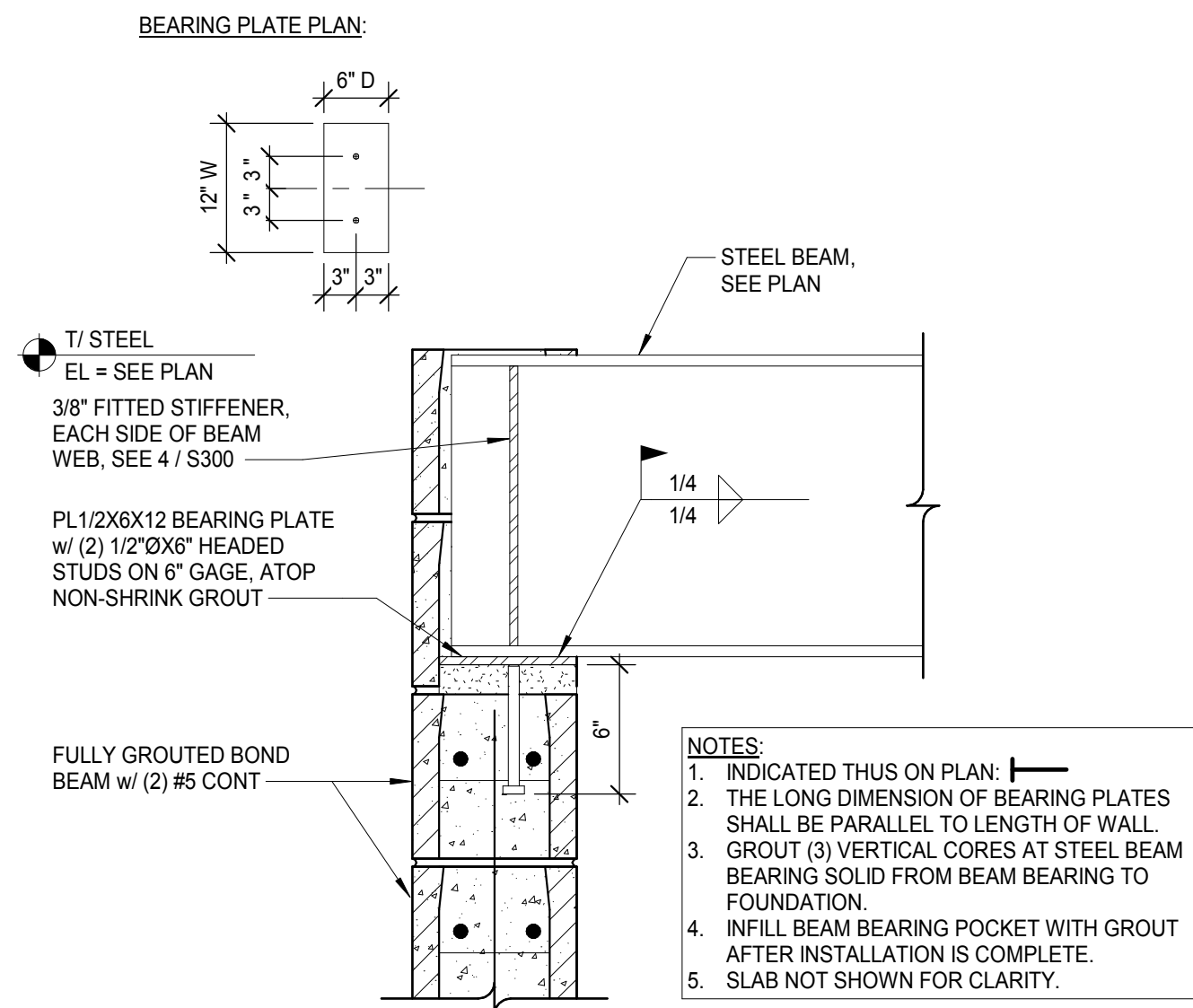
5 TYP MASONRY BEAM/LINTEL DETAIL

SCALE = 1" = 1'-0"



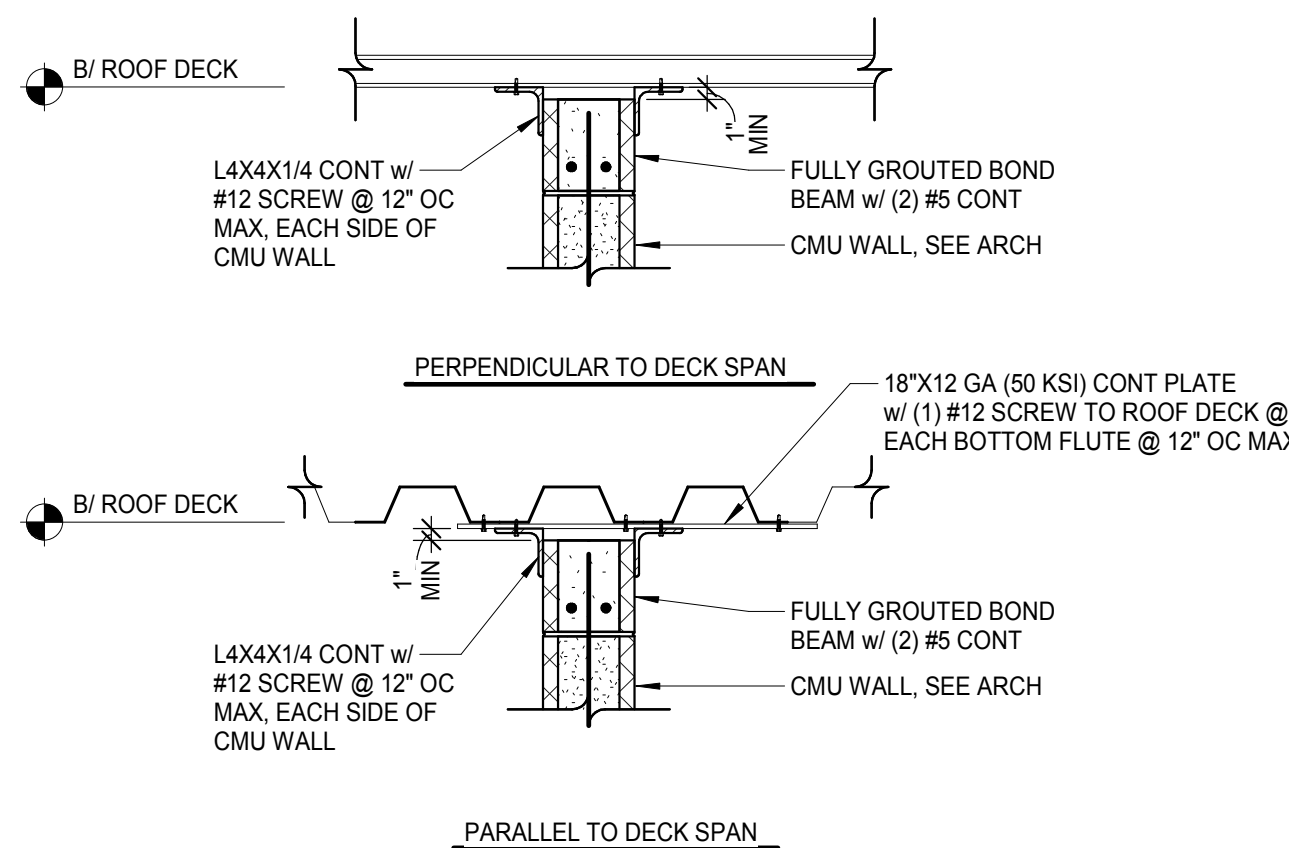
6 TYPICAL BOND BEAM DETAILS

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



7 TYPICAL STEEL BEAM BEARING PERPENDICULAR TO CMU WALL

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



8 TYPICAL MASONRY NON-LOAD BEARING WALL SUPPORT AT ROOF

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



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT CITY
PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 22001238-00
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: JER
DRAWN BY: JER
CHECKED BY: CWS
APPROVED BY: CWS
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SHEET TITLE

TYPICAL CMU
FRAMING DETAILS

S400

SHEET 093 OF 131

11/8/2023 11:54:03 AM

ELECTRICAL SYMBOL LEGEND	
POWER DEVICES	
DUPLEX RECEPTACLE SINGLE RECEPTACLE FOUR PLEX RECEPTACLE DUPLEX RECEPTACLE, 6" ABOVE COUNTERTOP UNLESS OTHERWISE NOTED GROUND FAULT DUPLEX RECEPTACLE DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT FOUR PLEX RECEPTACLE ON EMERGENCY CIRCUIT GROUND FAULT DUPLEX RECEPTACLE WITH WHILE-IN-USE COVER DUPLEX RECEPTACLE WITH USB OUTLETS ISOLATED GROUND RECEPTACLE SPECIAL PURPOSE OUTLET. LETTER DESIGNATES TYPE. SEE SPECIAL CONNECTION SCHEDULE FOR REQUIREMENTS WALL MOUNTED JUNCTION BOX CEILING MOUNTED JUNCTION BOX FLOOR MOUNTED JUNCTION BOX SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" TO CENTER OF DEVICE AFF UNLESS OTHERWISE NOTED PUSHBUTTON SWITCH COMBINATION PUSHBUTTON SWITCH MUSHROOM EMERGENCY SHUT-OFF SWITCH	FLOOR MOUNTED DUPLEX RECEPTACLE FLOOR MOUNTED FOUR PLEX RECEPTACLE CEILING MOUNTED DUPLEX RECEPTACLE CEILING MOUNTED FOUR PLEX RECEPTACLE ELECTRICAL DISTRIBUTION PANEL RECESS MOUNT ELECTRICAL PANEL SURFACE MOUNT ELECTRICAL PANEL ELECTRICAL POWER TRANSFORMER DISCONNECT SWITCH PROVIDED WITH EQUIPMENT FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SWITCH COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH STARTERMOTOR CONTROLLER ELECTRICAL MOTOR - SINGLE PHASE ELECTRICAL MOTOR - THREE PHASE RELAY BATTERY PACK MOTORIZED DAMPER TELEVISION OUTLET. PROVIDE DATA RECEPTACLE AND DUPLEX RECEPTACLE FOR EACH TV LOCATION MOUNTED AT HEIGHT INDICATED ON PLANS METER PER UTILITY REQUIREMENTS
LIGHTING	
CEILING OR WALL MOUNTED OCCUPANCY SENSOR CEILING OR WALL MOUNTED PHOTO CELL LIGHTING CONTACTOR TIME CLOCK, AS INDICATED ON PLANS EMERGENCY RELAY, AS INDICATED ON PLANS ROOM CONTROLLER, AS INDICATED ON PLANS	SINGLE-POLE SWITCH DOUBLE-POLE SWITCH 3-WAY SWITCH 4-WAY SWITCH LOW VOLTAGE OVERRIDE SWITCH LOW VOLTAGE OVERRIDE DIMMING SWITCH
SPECIAL SYSTEMS	
DATA OUTLET TELEPHONE OUTLET COMBINATION DATA/TELEPHONE OUTLET WIRELESS ACCESS POINT, CEILING MOUNTED	CABLE TRAY GROUND BAR MULTI-SERVICE POWER AND DATA FLOOR BOX/POKE THRU. "FF" ADJACENT TO SYMBOL INDACTES FURNITURE FEED.
FIRE ALARM	
MAGNETIC DOOR HOLD DEVICE SPRINKLER FLOW SWITCH SPRINKLER TAMPER SWITCH EXTERIOR REMOTE FLASHING STROBE LIGHT MANUAL PULL STATION, ADA COMPLIANT HORN & STROBE, ADA COMPLIANT STROBE, ADA COMPLIANT SPEAKER & STROBE, ADA COMPLIANT FIRE ALARM VOICE WALL MOUNT SPEAKER MULTIPLE TONE BUZZER FIRE ALARM VOICE CEILING MOUNT SPEAKER FIRE ALARM STROBE, CEILING MOUNTED	SMOKE DETECTOR DUCT MOUNTED SMOKE DETECTOR THERMAL HEAT DETECTOR POST INDICATOR VALVE BELL SHUTDOWN RELAY WITH REMOTE TEST SWITCH SHUTDOWN RELAY AND TEST SWITCH FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR PANEL NOTIFICATION APPLIANCE CIRCUIT SMOKE DAMPER FIRE DAMPER COMBINATION FIRE AND SMOKE DAMPER CLEAN AGENT ABORT STATION. MOUNT ADJACENT TO MANUAL RELEASE STATION
SECURITY DEVICES	
ELECTRIC DOOR STRIKER VIDEO CAMERA, WITH MOUNTING HARDWARE ELECTRIC MAGNETIC LOCK ELECTRIC CYLINDER LOCK CARD READER REQUEST TO EXIT DOOR CONTACT	MOTION DETECTOR, CEILING MOUNTED MOTION DETECTOR, WALL MOUNTED EMERGENCY DOOR RELEASE BUTTON PANIC BUTTON SECURITY BUZZER HORN
CIRCUITRY	
EXISTING, NEW, OR DEMO POWER FEEDER BELOW GRADE ITEM BELOW GRADE (NEW WORK) OR TO BE DEMOLISHED (DEMO)	BRANCH CIRCUIT. 2#12 AND 1#12G IN 3/4" CONDUIT UNO

ABBREVIATIONS/MODIFIERS	
SHEET NOTE TAG, LABEL INDICATES NOTE NUMBER FEEDER TAG * ABOVE COUNTER A AMPERE AD AUTOMATIC DAMPER AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AFCI ARC FAULT CIRCUIT INTERRUPTER ATS AUTOMATIC TRANSFER SWITCH C CONDUIT C/B CIRCUIT BREAKER CIR CIRCUIT CUH CABINET UNIT HEATER E EXISTING DEVICES TO REMAIN EF EXHAUST FAN EMT ELECTRIC METALLIC TUBING ER NEW LOCATION OF EXISTING RELOCATED EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER FA FIRE ALARM FB FLOOR BOX FMC FLEXIBLE METALLIC TUBING GFI GROUND FAULT INTERRUPTER HD HAND DRYER IG ISOLATED GROUND MAU MAKE-UP AIR UNIT MD MOTORIZED DAMPER NF NON-FUSED NL NIGHT LIGHT NR NEW TO REPLACE EXISTING P POLE PE PRIMARY ELECTRIC SERVICE PTD ELECTRIC PAPER TOWEL DISPENSER PVC POLYVINYL CHLORIDE CONDUIT RE REMOVE EXISTING REF ROOF EXHAUST FAN RL RELOCATE EXISTING RMC RIGID METALLIC CONDUIT RR REMOVE AND REPLACE ON NEW SURFACE RTU ROOFTOP UNIT SD SMOKE DAMPER SE SECONDARY ELECTRIC SERVICE S&P SPACE AND PROVISION T TELEPHONE SERVICE TCP TEMPERATURE CONTROL PANEL TP TAMPER PROOF TV TELEVISION UGE UNDERGROUND ELECTRICAL VFC VARIABLE FREQUENCY CONTROLLER VFD VARIABLE FREQUENCY DRIVE W WIRE WG WIRE GUARD WP WEATHERPROOF WR WEATHER RESISTANT XFMR TRANSFORMER	

- ### GENERAL NOTES
- A. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE ADOPTED ELECTRICAL CODE.
- B. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 90-DEGREE CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT UL LISTED FOR A MINIMUM OF 75-DEGREES. CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING OR NO RATING SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO THE ADOPTED ELECTRICAL CODE.
- C. CONTACT ELECTRIC UTILITY AND ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
- D. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF SAME AS MAY BE NECESSARY TO AVOID DAMAGE THERE OF.
- E. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- F. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.
- G. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- H. GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- I. ALL WIRING SHALL BE INSTALLED IN CONDUIT AND BE CONCEALED. REFER TO CONDUIT APPLICATION SCHEDULE.
- J. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT.
- K. ALL BRANCH CIRCUITS SHALL CONSIST OF (3) #12 AND (1) #12 EQUIPMENT GROUND IN 1/2" EMT CONDUIT, UNLESS OTHERWISE NOTED.
- L. ALL ELECTRICAL RACEWAYS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED PER THE ADOPTED ELECTRICAL CODE.
- M. MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" BELOW GRADE.
- N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULLSTRING.
- O. ALL MATERIALS EXPOSED IN PLENUM SPACES SHALL BE NON-COMBUSTIBLE OR HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING NOT MORE THAN 50.
- P. COORDINATE INSTALLATION OF ELECTRICAL WORK WITH OTHER TRADES. INSTALL AT THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF OTHER TRADES. TRADES WITH REQUIRED SLOPES SHALL HAVE PLACEMENT PRIORITY. WHERE POSSIBLE RACEWAYS SHALL BE ROUTED THROUGH TRUSSES.
- Q. ALL LOW VOLTAGE CABLING (FIBER, CATV, TELEPHONE, DATANETWORK, ETC.) SHALL BE PROVIDED BY OTHERS UNLESS OTHERWISE NOTED. ALL CABLING SHALL BE PLENUM RATED.
- R. ALL CONDUITS THAT PENETRATE AN EXTERIOR WALL SHALL BE SEALED AIR TIGHT INSIDE THE CONDUIT, TO PREVENT COLD AIR AND WARM AIR FROM MISSING INSIDE THE CONDUIT.
- S. DEFINITIONS:
1. PROVIDE - CONTRACTOR SHALL FURNISH AND INSTALL.
2. FURNISH - CONTRACTOR SHALL OBTAIN FOR OTHERS TO INSTALL.
3. INSTALL - CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE.
- T. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR ALL WALL FIXTURE MOUNTING HEIGHTS AND INSTALLATION DETAILS.
- U. ALL CONDUITS THAT TERMINATE INSIDE MECHANICAL EQUIPMENT SHALL BE SEALED AIR TIGHT TO PREVENT AIR FROM TRANSFERRING THROUGH THE CONDUIT.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	SH
DRAWN BY:	SH
CHECKED BY:	AF
APPROVED BY:	TWO
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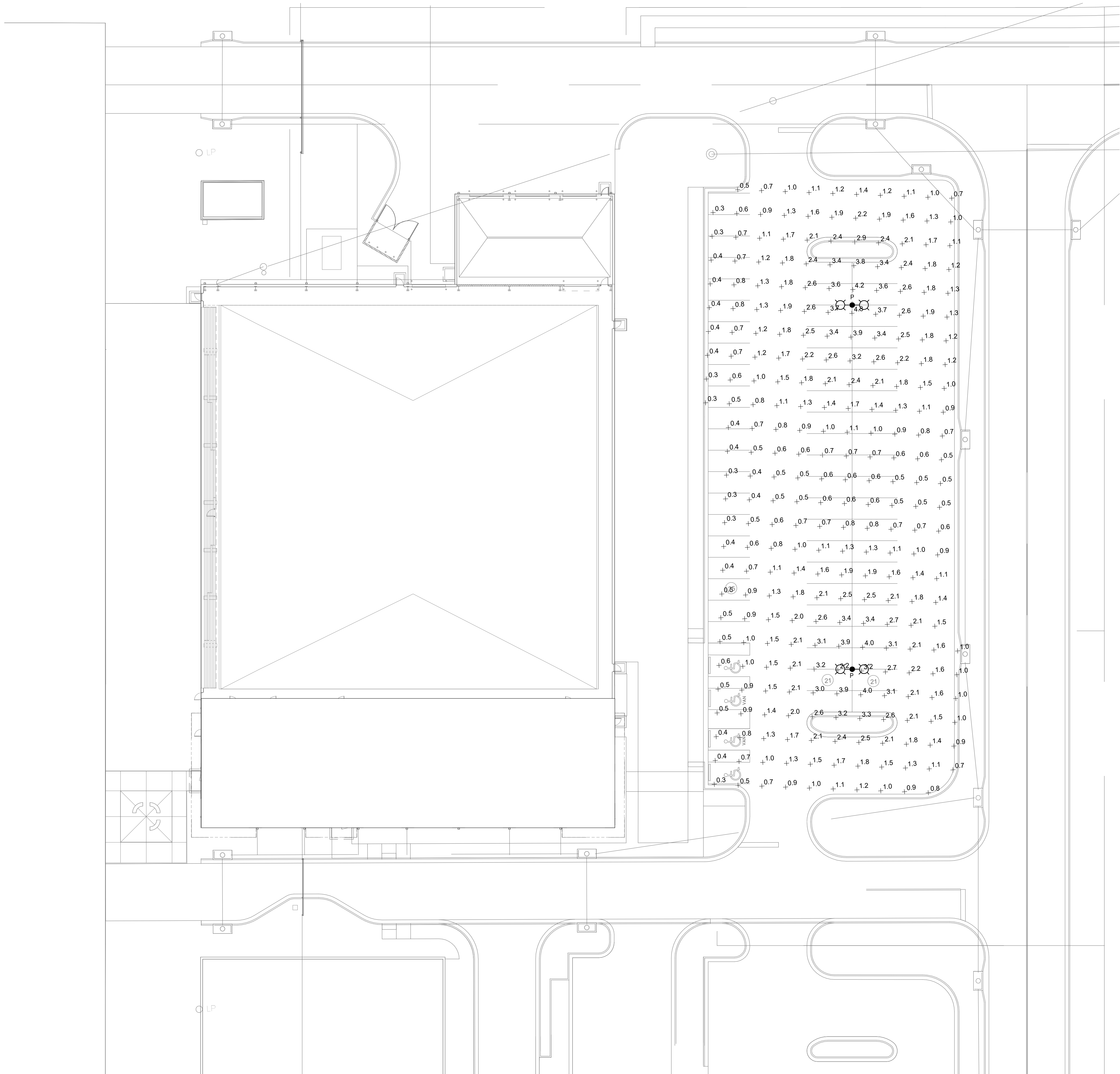
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GENERAL
ELECTRICAL
INFORMATION

E001

SHEET 094 OF 131

12/1/2023 11:41:14 AM



STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PARKING	+	1.5	4.3	0.3 fc	14.3:1	5.0:1

Project


Catalog #

Type

Prepared by

Notes

Date



McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Product Certifications

Interactive Menu

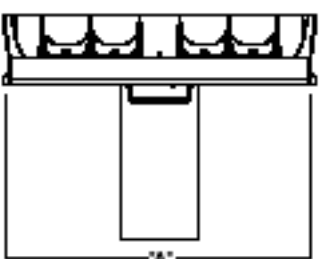
- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 8
- Energy and Performance Data page 6
- Control Options page 10

Quick Facts

- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 16 optical distributions
- Efficiency up to 158 lumens per watt

Dimensional Details

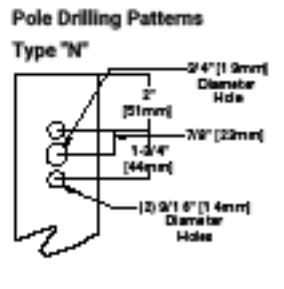
Standard Arm



Number of Light Spheres	Width "W"	Mounting Length "L"	Weight with Standard or Off Arm	SPH with Standard or Off Arm
1-4	10"	22"	20 lb	0.8
5-6	22"	22"	25 lb	0.8
7-9	22"	28-1/8"	40 lb	1.1

Pole Drilling Patterns

Type "W"

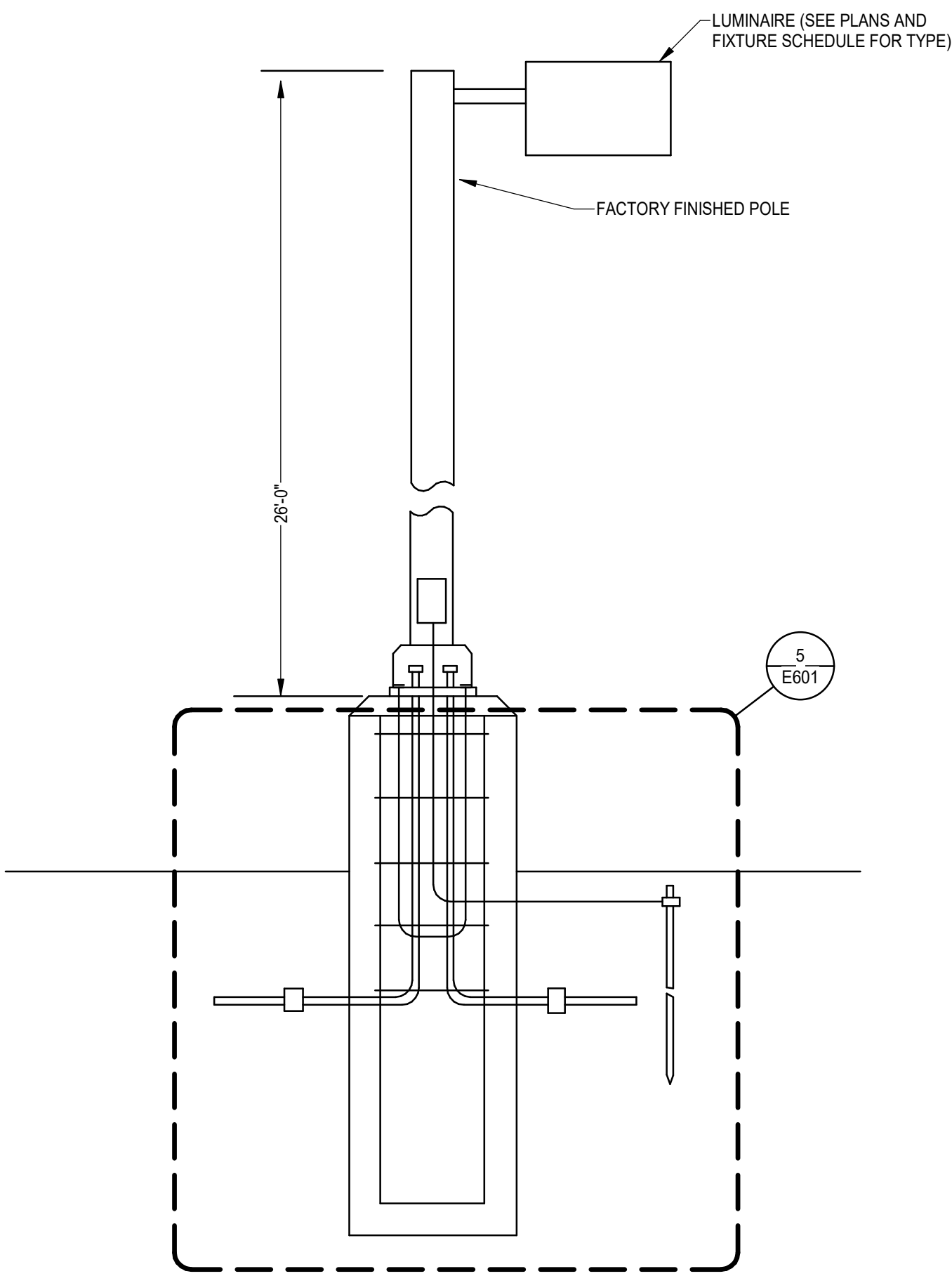


Connected Systems

- WaveLinux Lite
- WaveLinux

COOPER Lighting Services

PERMISSION page 1
JAN 1 2023 2:31 PM



LIGHT POLE DETAIL 2
NOT TO SCALE



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LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/1/10 REV: 1
MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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DRAWN BY: SH
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APPROVED BY: TWO
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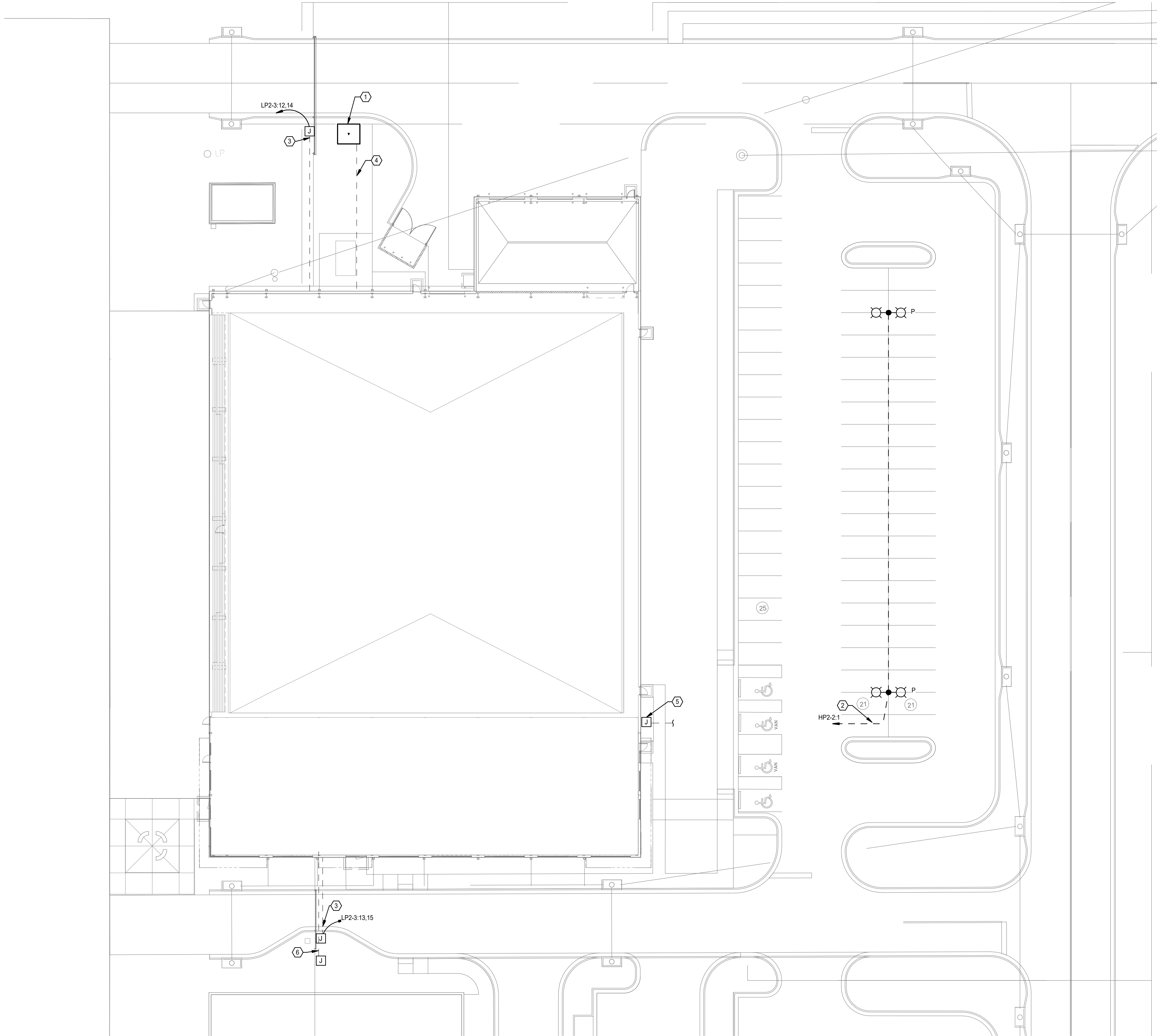
SHEET TITLE

SITE LIGHTING
PHOTOMETRICS PLAN

E002

SHEET 095 OF 131

12/1/2023 11:41:16 AM



POWER SITE PLAN 1 1" = 20'-0"

GENERAL SHEET NOTES

- A. TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- B. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- C. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- D. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.

ELECTRICAL KEYNOTES

1. PAD MOUNTED UTILITY TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH UTILITY COMPANY. ROUTE SECONDARY FEEDER BELOW GRADE AND STUB UP ON EXTERIOR WALL INTO CT CABINETS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. ROUTE EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING RELAY CONTROL PANEL. LIGHTING SHALL BE CONTROLLED BY TIME CLOCK.
3. ROUTE POWER AND 1" EMPTY CONDUIT WITH PULL STRINGS FOR GATE POWER.
4. SECONDARY FEEDER ROUTED BELOW GRADE FROM UTILITY TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
5. (2) 4" EMPTY CONDUITS ROUTED BELOW GRADE FROM TELECOM JUNCTION BOX AND STUBBED UP IN ELECTRICAL ROOM. CAP CONDUITS WITH PULL STRINGS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH TELECOM SERVICE PROVIDER. PROVIDE TRACER WIRE WITH PULL STRINGS. ROUTE CONDUITS TO SERVICE PROVIDER DEMARC LOCATION. COORDINATE LOCATION WITH SERVICE PROVIDER.
6. 4" CONDUIT ROUTED BELOW GRADE FROM ELECTRICAL ROOM AND TERMINATED IN JUNCTION BOX FOR FUTURE TERMINAL BUILDING COMMUNICATION CABLING. PROVIDE EMPTY CONDUIT WITH PULL STRINGS.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/1/10 REV:1
MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: SH
CHECKED BY: AF
APPROVED BY: TWO
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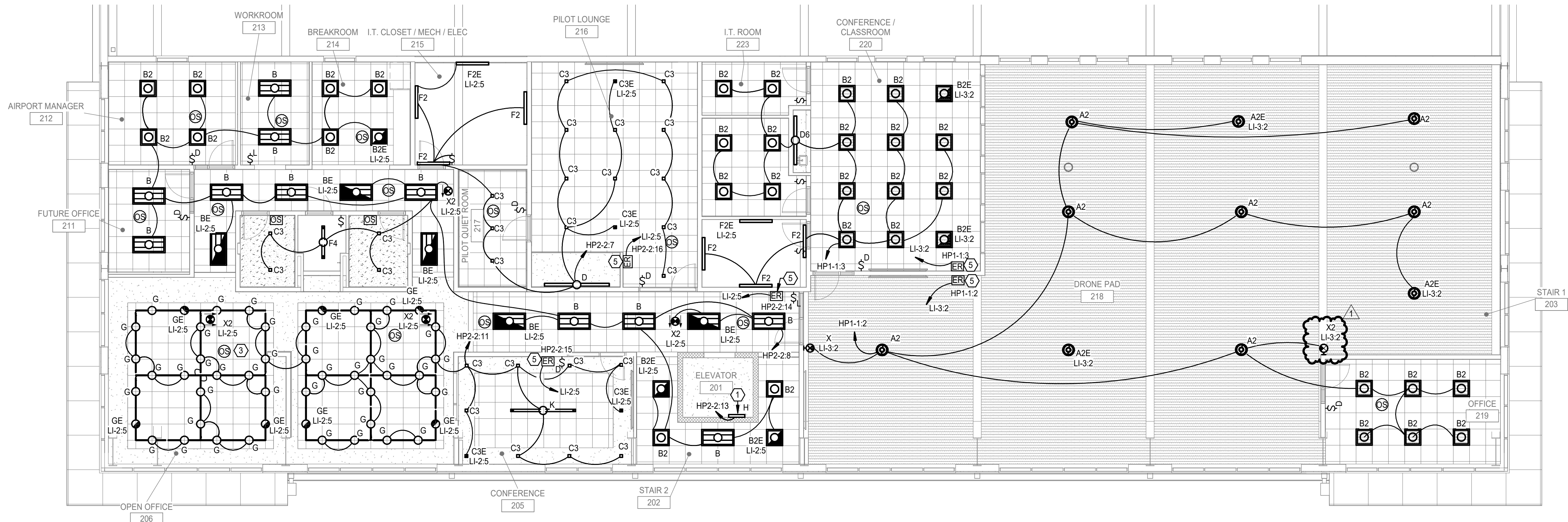
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ELECTRICAL SITE
PLAN

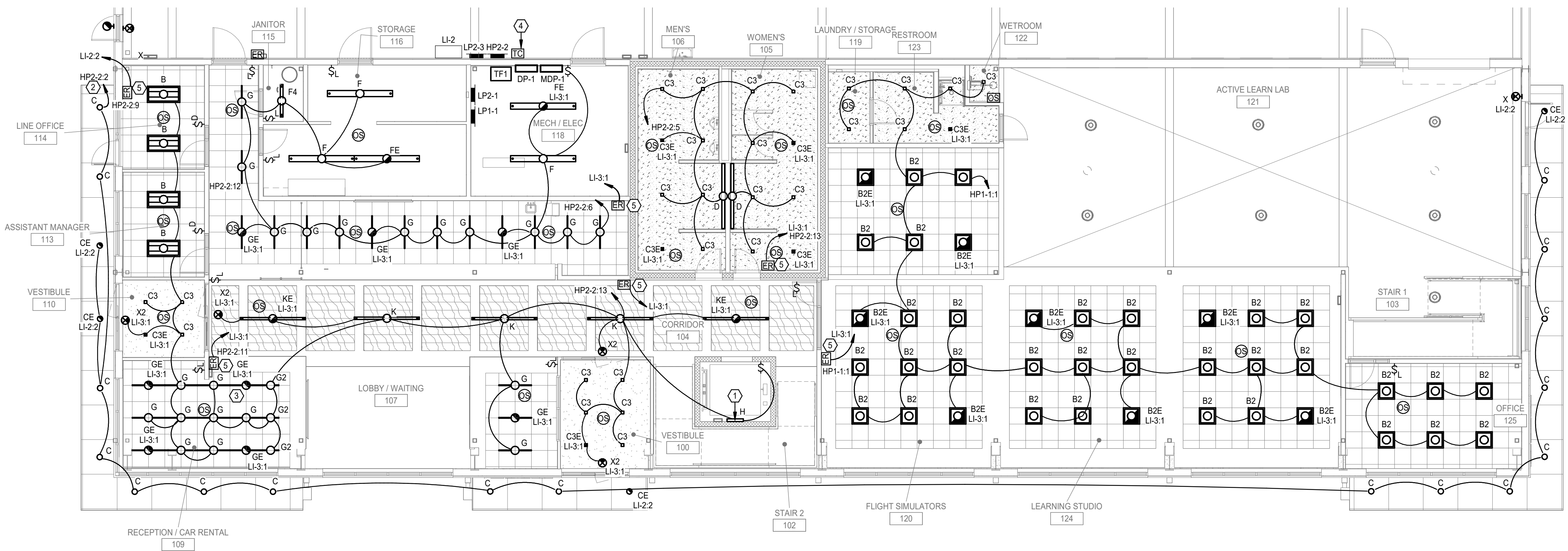
E003

SHEET 096 OF 131

11/8/2023 11:54:14 AM



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



LIGHTING FIRST FLOOR PLAN 1 1/8" = 1'-0"

GENERAL SHEET NOTES

- A. REFER TO LIGHTING FIXTURE AND SEQUENCE SCHEDULE FOR ADDITIONAL INFORMATION.
- B. DESIGNATED EMERGENCY LIGHTING SHALL BE CONTROLLED WITH A NORMAL SOURCE CIRCUIT FROM NEAREST FIXTURE AND ASSOCIATED CONTROLS WITHIN IN SPACE. PROVIDE UL924 EMERGENCY LIGHTING CONTROL RELAY TO BY PASS LOCAL CONTROLS DURING LOSS OF POWER. REFER TO ROOM CONTROLLER EMERGENCY DETAIL FOR ADDITIONAL INFORMATION.
- ELECTRICAL KEYNOTES
1. SURFACE MOUNT ELEVATOR PIT LIGHT FIXTURE BELOW ELEVATOR OPENING IN ELEVATOR PIT AND ABOVE OPENING AT TOP OF SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR EQUIPMENT AND OTHER TRADES PRIOR TO INSTALLATION.
 2. ROUTE EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING RELAY CONTROL PANEL. LIGHTING SHALL BE CONTROLLED BY TIME CLOCK.
 3. PROVIDE 277-24V LOW VOLTAGE TRANSFORMER ABOVE CEILING FOR T-BAR LIGHT FIXTURES.
 4. PROVIDE LIGHTING CONTROL PANEL EQUAL TO WATSTOPPER# LMCP 24.
 5. ROUTE EMERGENCY LIGHTING CIRCUIT THROUGH UL 924 EMERGENCY RELAY. REFER TO LIGHTING CONTROL PANEL FOR ADDITIONAL INFORMATION.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

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MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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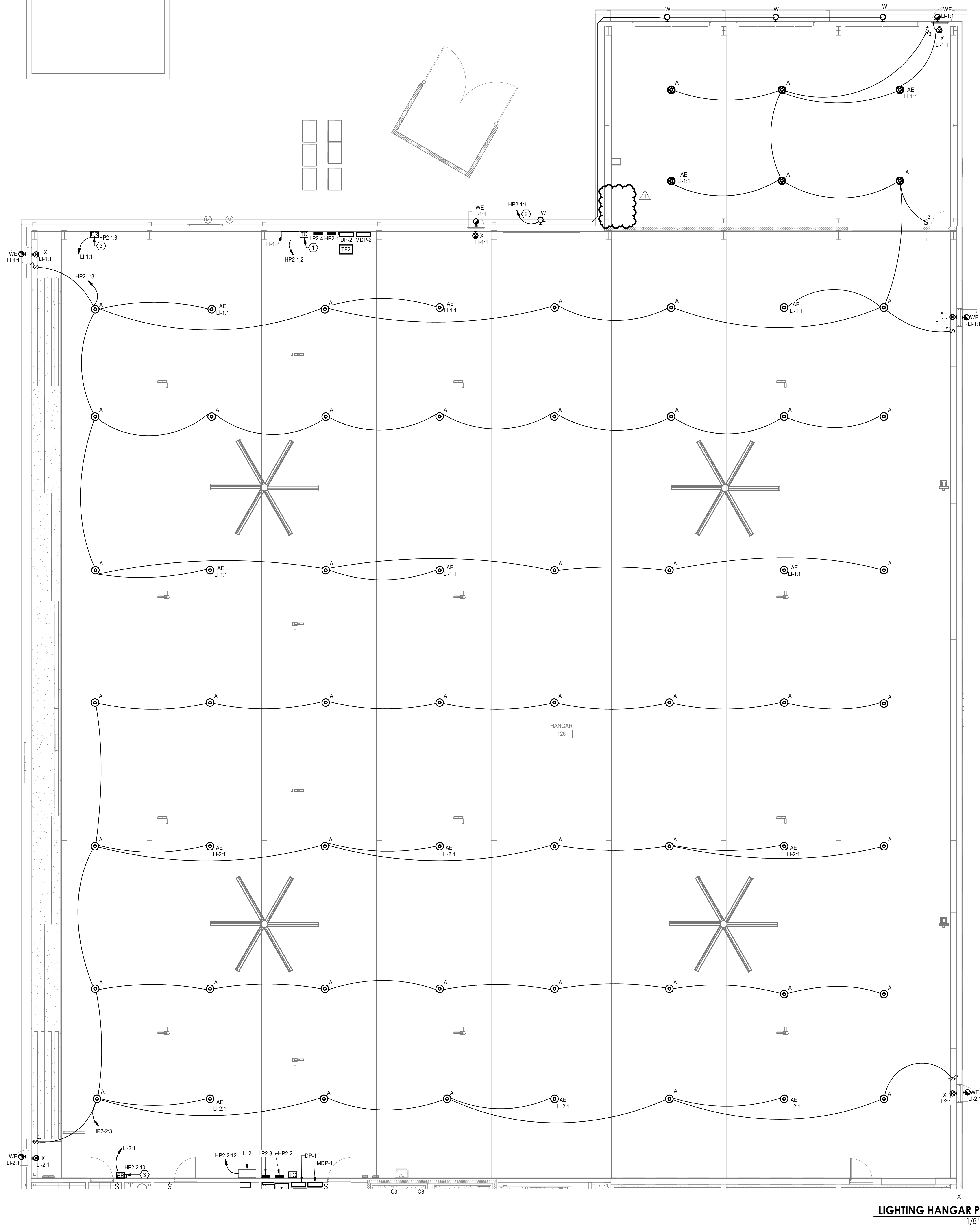
SHEET TITLE

LIGHTING FLOOR
PLANS

E101

SHEET 097 OF 131

11/8/2023 11:54:17 AM



GENERAL SHEET NOTES

A. DESIGNATED EMERGENCY LIGHTING SHALL BE CONTROLLED WITH A NORMAL SOURCE CIRCUIT FROM NEAREST FIXTURE AND ASSOCIATED CONTROLS WITHIN IN SPACE. PROVIDE UL924 EMERGENCY LIGHTING CONTROL RELAY TO BY PASS LOCAL CONTROLS DURING LOSS OF POWER. REFER TO ROOM CONTROLLER EMERGENCY DETAIL FOR ADDITIONAL INFORMATION.

ELECTRICAL KEYNOTES

1. PROVIDE LIGHTING CONTROL PANEL EQUAL TO WATTSTOPPER# LMCP 24.
2. ROUTE EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING RELAY CONTROL PANEL. LIGHTING SHALL BE CONTROLLED BY TIME CLOCK.
3. ROUTE EMERGENCY LIGHTING CIRCUIT THROUGH UL 924 EMERGENCY RELAY. REFER TO LIGHTING CONTROL PANEL FOR ADDITIONAL INFORMATION.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

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SHEET TITLE
LIGHTING HANGAR
FLOOR PLAN

E102

SHEET 098 OF 131

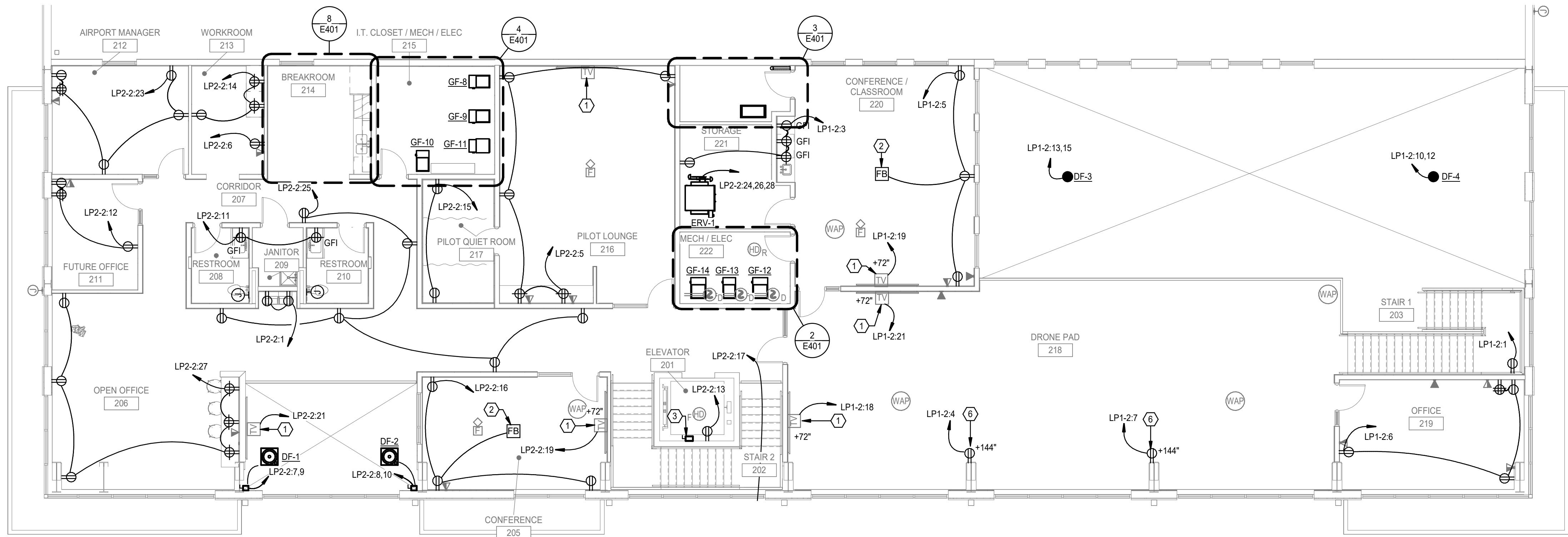
LIGHTING HANGAR PLAN

1/8" = 1'-0"

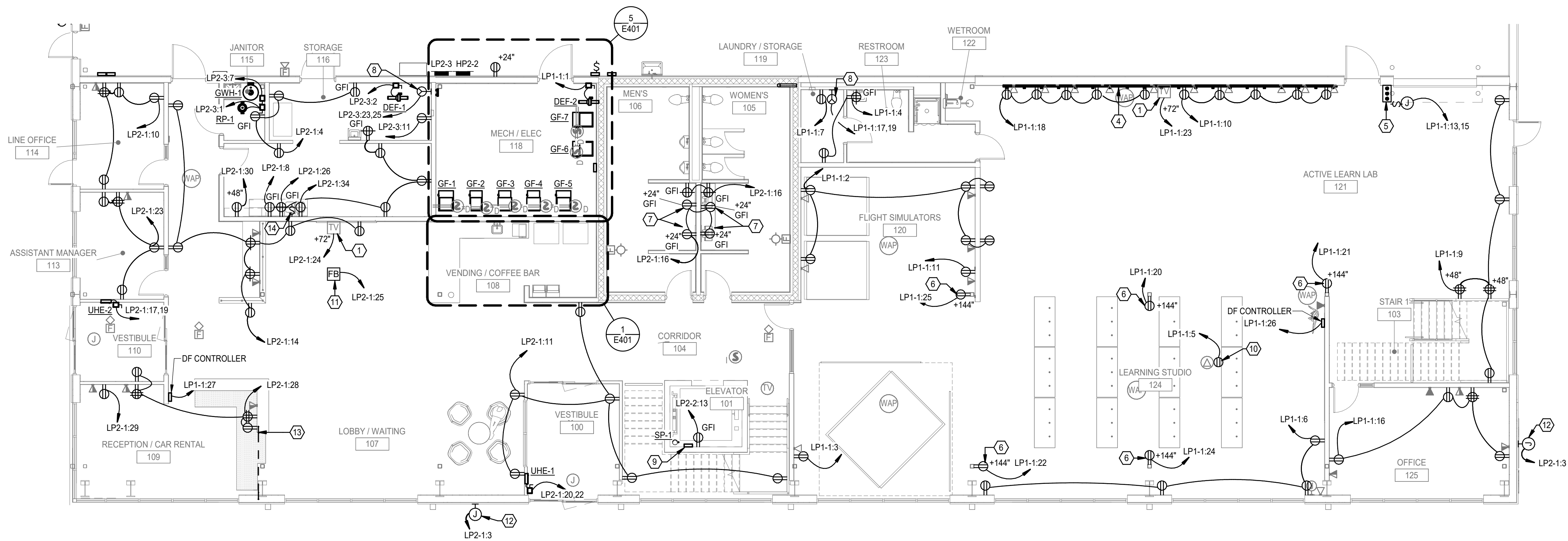
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11/8/2023 11:54:22 AM



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



POWER FIRST FLOOR PLAN 1 1/8" = 1'-0"

ELECTRICAL KEYNOTES

1. PROVIDE TV OUTLET EQUAL TO LEGRAND® TVSWTVSSW WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER AV INFRASTRUCTURE DETAIL. COORDINATE ALL DEVICE REQUIREMENTS WITH OWNER. REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHTS.
2. COMBINATION POWER/DATA POKE-THRU FLOOR BOX. PROVIDE LEGRAND 6AT SERIES OR EQUIVALENT WITH COVER PLATE. TWO (2) DUPLEX RECEPTACLES, DATA ACTIVATIONS, AND AV CABLE FEED THROUGH. PROVIDE ONE (1) 3/4" CONDUIT FOR POWER AND ONE (1) 1/4" CONDUIT FOR DATA. REFER TO SYSTEMS PLANS FOR ADDITIONAL INFORMATION ON DATA CONDUIT ROUTING REQUIREMENTS.
3. NON-FUSED, ENCLOSED, EXTERNALLY-OPERABLE MOTOR DISCONNECT CAPABLE OF BEING LOCKED IN THE OPEN POSITION. THIS SWITCH IS TO BE IN LINE OF SIGHT OF THE MOTOR CONTROLLER.
4. PROVIDE DUAL CHANNEL RACEWAY EQUAL TO WIREMOLD ALDS4000 SERIES WITH DUPLEX RECEPTACLES AND DATA OUTLETS LOCATED 4'-0" ON CENTER.
5. PROVIDE START/STOP PUSH BUTTON FOR COILING OVERHEAD DOOR PER MANUFACTURER REQUIREMENT.
6. PROVIDE CORD AND REEL WITH TRIPLE TAP OUTLET EQUAL TO HUBBELL HBLCA125T1. REEL SHALL BE MOUNTED TO STRUCTURAL COLUMN OR FROM STRUCTURE ABOVE AT 12'-0" A.F.F.
7. PROVIDE RECEPTACLE ABOVE CEILING FOR LOW VOLTAGE POWER TO FLUSH VALVES. PROVIDE RECEPTACLE FOR LAVATORIES PER MANUFACTURER.
8. PROVIDE NEMA 14-30R OR 10-30R RECEPTACLE WITH (3) #10 AND (1) #10 GROUND IN 3/4" CONDUIT FOR DRYER. REFER TO MANUFACTURER AND PROVIDE EXACT REQUIREMENTS.
9. SUMP PUMP ALARM PANEL. PROVIDE (1) 2" CONDUIT WITH PULL STRING FROM SUMP PUMP ALARM PANEL. STUBBED INTO ELEVATOR PIT FOR ROUTING OF POWER AND CONTROL CABLE TO SUMP PUMP.
10. PROVIDE RECEPTACLE AND DATA OUTLET ABOVE CEILING FOR PROJECTOR. COORDINATE LOCATION WITH CEILING AND VERIFY ALL REQUIREMENTS WITH MANUFACTURER AND OWNER.
11. COMBINATION POWER/DATA FLOOR BOX. PROVIDE LEGRAND RFB SERIES OR EQUIVALENT WITH COVER PLATE. TWO (2) DUPLEX RECEPTACLES, DATA ACTIVATIONS, AND AV CABLE FEED THROUGH. REFER TO FLOOR BOX DETAIL AND SYSTEMS PLANS FOR ADDITIONAL INFORMATION.
12. PROVIDE POWER ROUGH IN FOR SIGN LIGHTING.
13. ROUTE CONDUIT BELOW FLOOR AND STUB UP IN CASEWORK. COORDINATE EXACT LOCATION WITH CASEWORK.
14. ROUTE CIRCUIT FOR GARBAGE DISPOSAL OUTLET THROUGH TOGGLE SWITCH.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

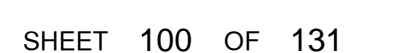


LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

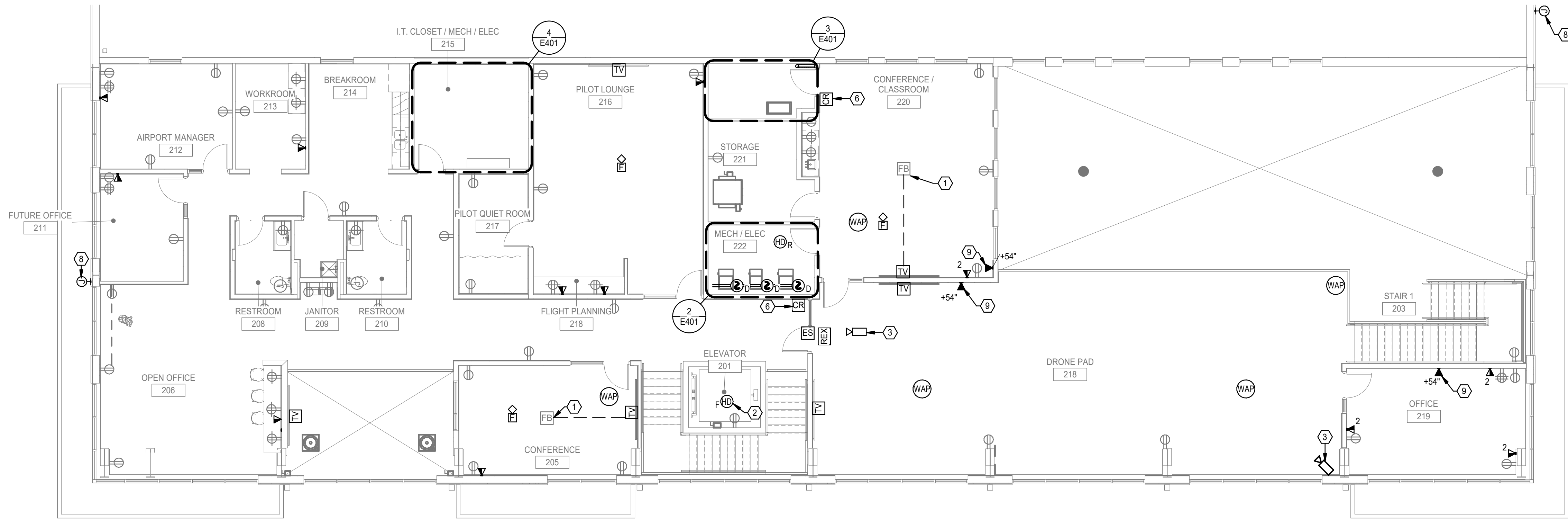
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PROJECT NO:	022-04268	
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt	
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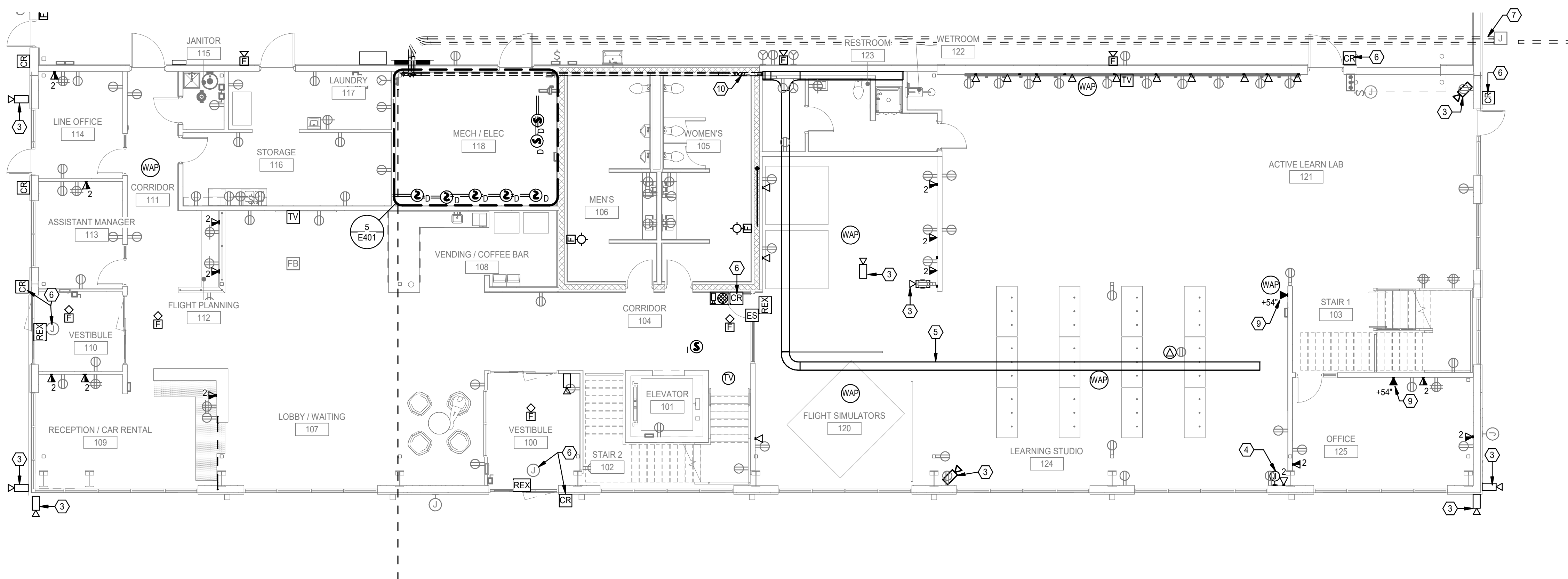
10 ROUTE 120V POWER TO HYDROGEN GAS DETECTOR FOR EXHAUST FAN CONTROL. REFER TO MECHANICAL PLANS AND MANUFACTURER DETAILS FOR ADDITIONAL INFORMATION.



11/8/2023 11:54:29 AM



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



SYSTEMS FIRST FLOOR PLAN 1 1/8" = 1'-0"

GENERAL SHEET NOTES

- WHERE TELEDATA OUTLET SYMBOL IS SHOWN PROVIDE BACK BOX AND CONDUIT ROUGH IN TO ABOVE ACCESSIBLE CEILING. REFER TO COMMUNICATION ROUGH-IN DETAIL FOR ADDITIONAL INFORMATION.
- COORDINATE ALL TELECOMM DATA DEVICE LOCATION AND MOUNTING HEIGHTS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE TRACER WIRE WITH PULL STRINGS.

ELECTRICAL KEYNOTES

- PROVIDE 1-1/4" CONDUIT FROM FLOOR BOX/POKE-THRU TO TV OUTLET LOCATION FOR DATA AND AV CABLING.
- HEAT DETECTOR IN ELEVATOR SHAFT WITHIN 2FT OF SPRINKLER HEAD. REFER TO ELEVATOR INTERLOCK WITH FIRE ALARM DETAIL FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH SPRINKLER PROVIDER.
- PROVIDE JUNCTION BOX AND 3/4" CONDUIT ROUGH IN FOR CAMERA. ROUTE CONDUIT BACK TO IT ROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND SECURITY PROVIDER. IN AREAS WITH NO ABOVE CEILING ROUTE CONDUIT HIGH AND TIGHT TO STRUCTURE ABOVE.
- PROVIDE BOX WITH 1-1/4" EMPTY CONDUIT WITH PULL STRINGS TO PROJECTOR OUTLET BOX.
- 2"X12" WIRE MESH CABLE TRAY ABOVE ACCESSIBLE CEILING.
- PROVIDE POWER ROUGH IN FOR CARD READER. REFER TO ACCESS CONTROL DETAIL FOR ADDITIONAL INFORMATION.
- (2)X4" EMPTY CONDUITS ROUTED BELOW GRADE FROM TELECOM JUNCTION BOX AND STUBBED UP IN ELECTRICAL ROOM. CAP CONDUITS WITH PULL STRINGS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH TELECOM SERVICE PROVIDER. PROVIDE TRACER WIRE WITH PULL STRINGS. ROUTE CONDUITS TO SERVICE PROVIDER DEMARC LOCATION. COORDINATE LOCATION WITH SERVICE PROVIDER.
- MOUNT SINGLE BOX AT 15'-0" A.F.G. WITH 1" CONDUIT WITH CAT 6A ROUTED WITHIN STRUCTURE FOR OWNER SUPPLIED EXTERIOR WIFI BOOSTER EQUAL TO CISCO CATALYST 8166 SERIES WITH BRACKET AND ARM. REFER TO MANUFACTURER FOR MOUNTING REQUIREMENTS. PROVIDE BLOCKING AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
- PROVIDE DOUBLE GANGE BACK BOX WITH 4" LUG SPACING MATCHING PHONE HARDWARE. REFER TO PHONE MANUFACTURER FOR EXACT MOUNTING REQUIREMENTS.
- ROUTE (2)X4" EMPTY CONDUIT TO ABOVE CEILING ON FIRST FLOOR BELOW AND PROVIDE FIRE RATED PENETRATION THRU FIRE WALL. CONDUIT TO STUB OUT WALL TO CABLE TRAY ABOVE CEILING ON FIRST FLOOR.



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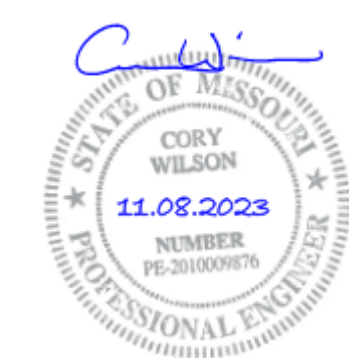
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 022-04268
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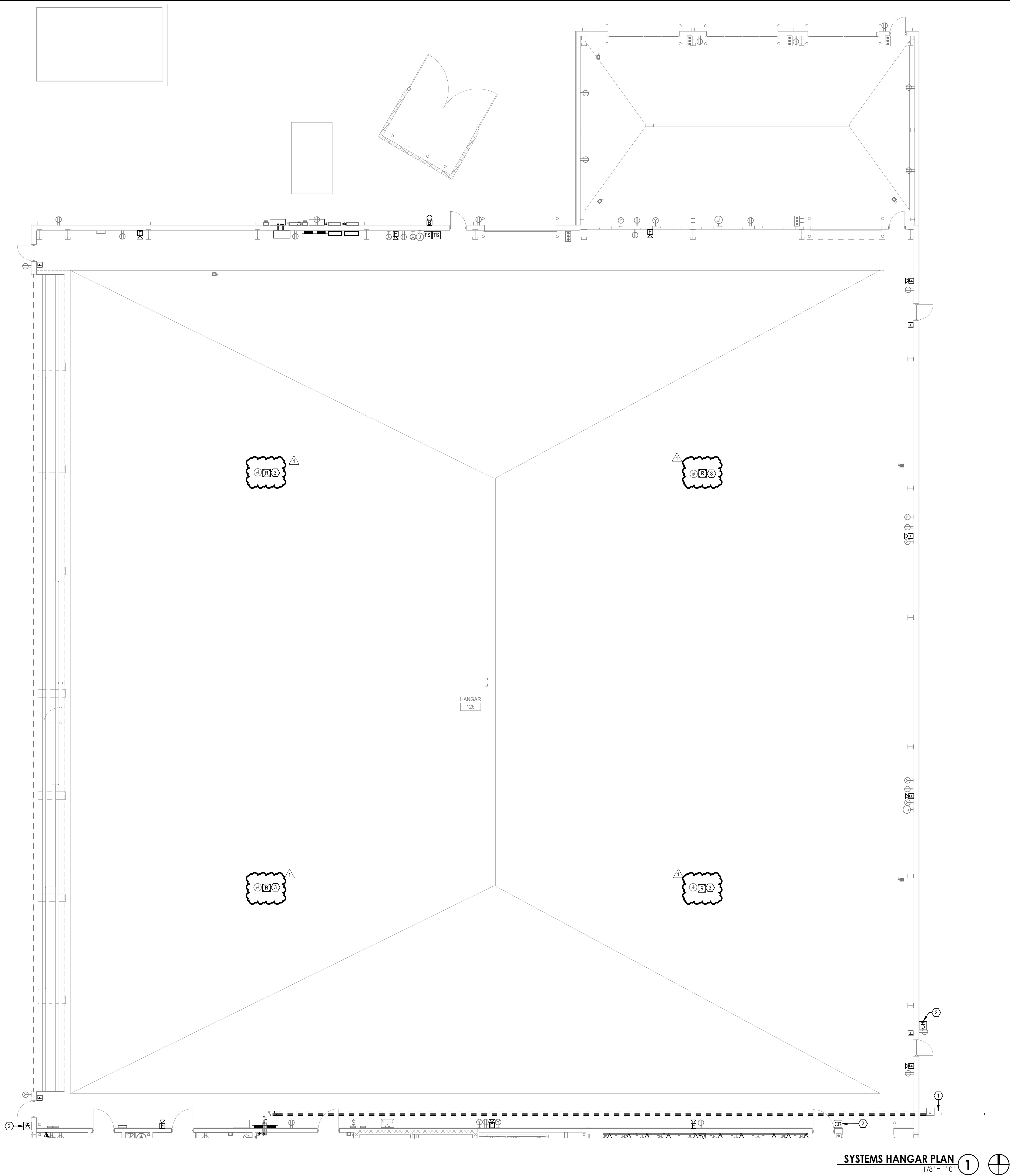
SHEET TITLE

SYSTEMS FLOOR
PLANS

E301

SHEET 101 OF 131

11/8/2023 11:54:31 AM



ELECTRICAL KEYNOTES

- (2)-4" EMPTY CONDUITS ROUTED BELOW GRADE FROM TELECOM JUNCTION BOX AND STUBBED UP IN ELECTRICAL ROOM. CAP CONDUITS WITH PULL STRINGS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH TELECOM SERVICE PROVIDER. PROVIDE TRACER WIRE WITH PULL STRINGS. ROUTE CONDUITS TO SERVICE PROVIDER DEMARC LOCATION. COORDINATE LOCATION WITH SERVICE PROVIDER.
- PROVIDE POWER ROUGH IN FOR CARD READER. REFER TO ACCESS
- PROVIDE FAN SHUT DOWN RELAY TO SHUT FAN DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/10 REV. 1
MARK DATE DESCRIPTION

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SHEET TITLE

SYSTEMS HANGAR
PLAN

E302

SHEET 102 OF 131

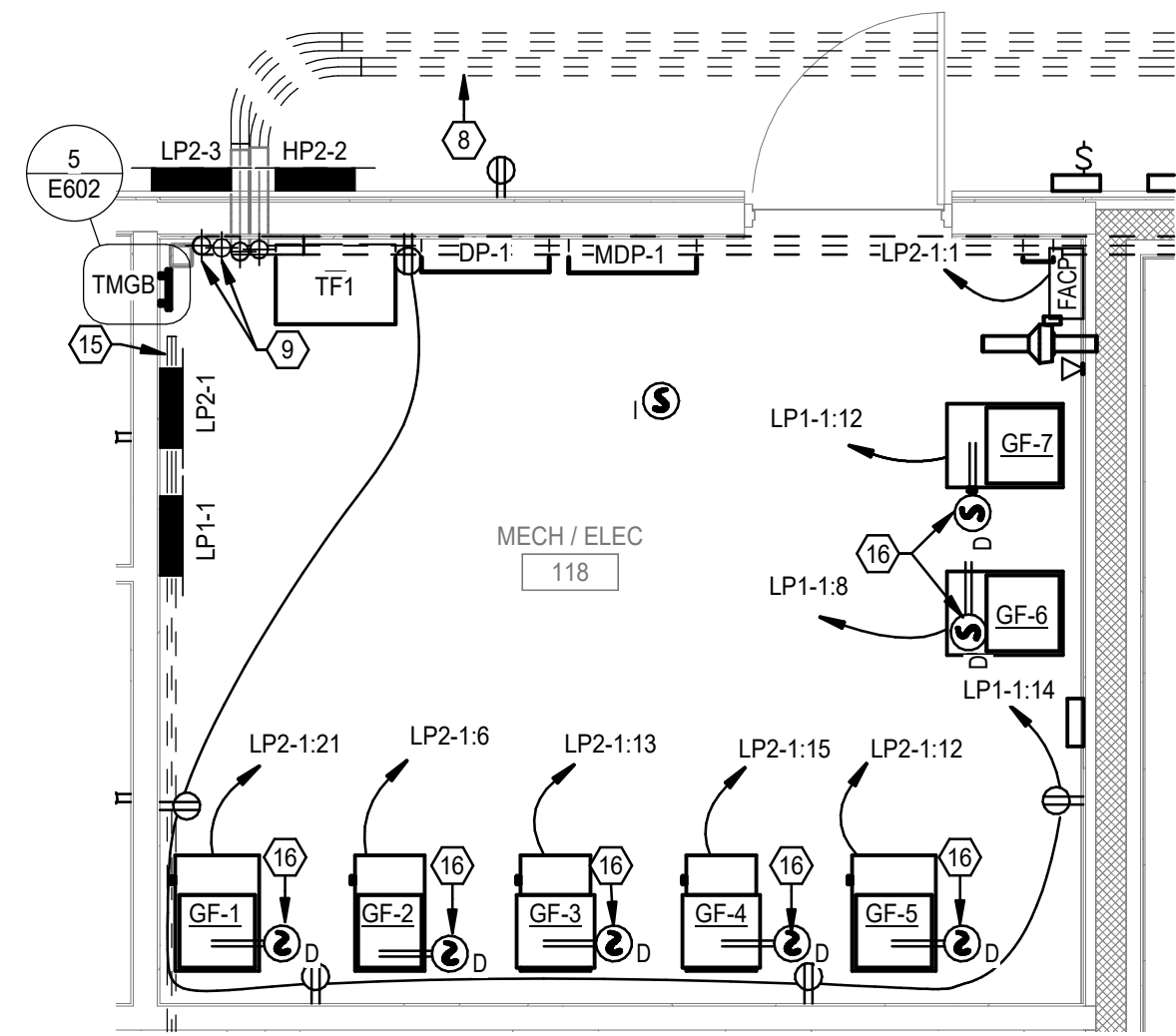
SYSTEMS HANGAR PLAN

1/8" = 1'-0"

1

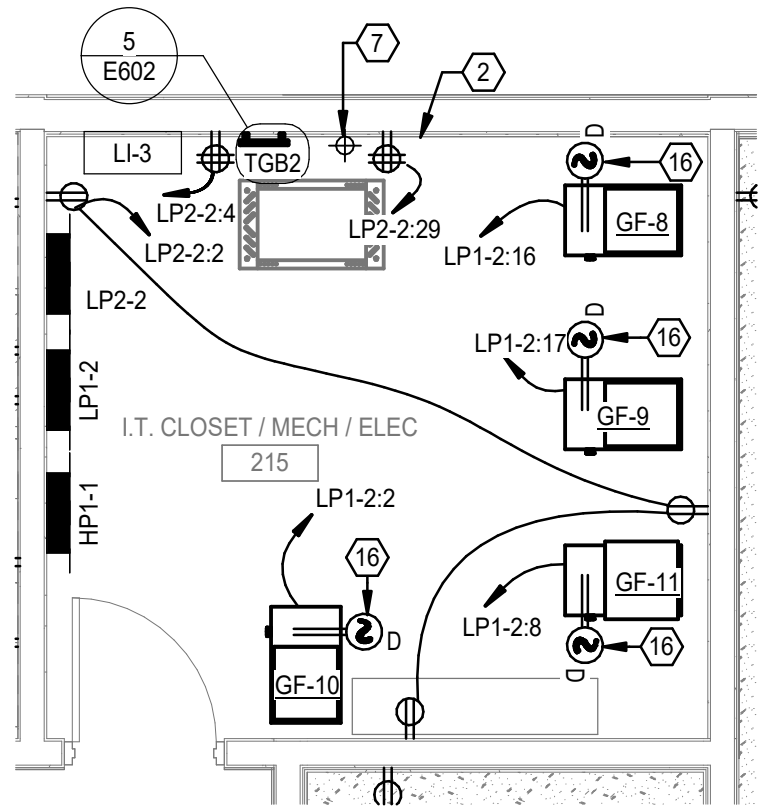
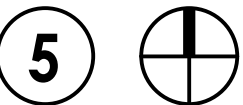


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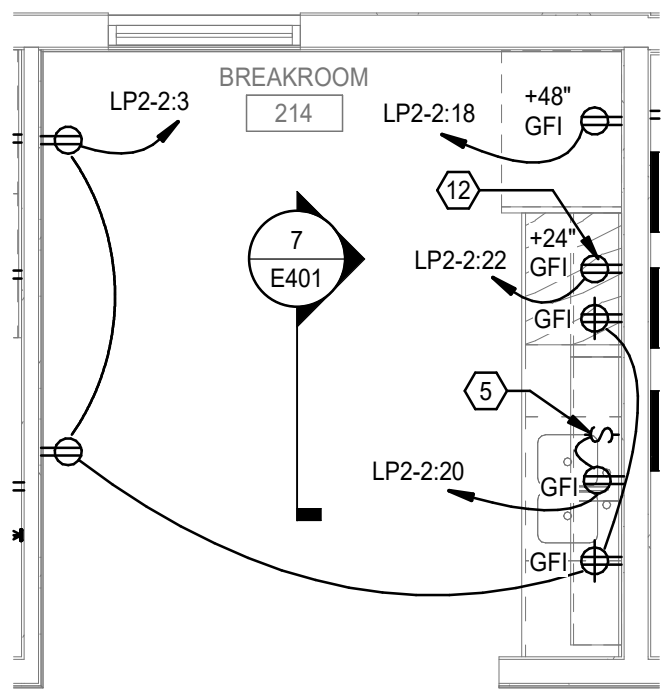
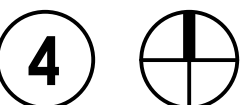
ENLARGED ELECTRICAL ROOM PLAN

1/4" = 1'-0"



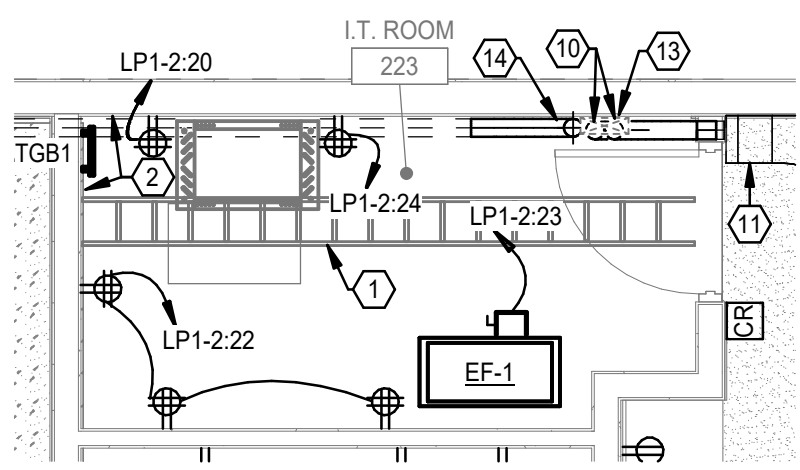
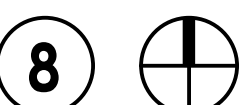
ENLARGED 2ND FLOOR PLAN

1/4" = 1'-0"



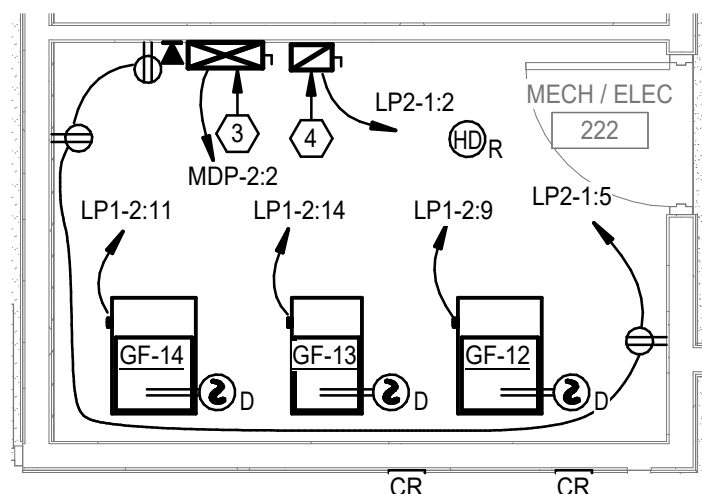
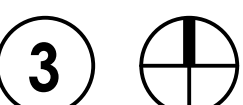
ENLARGED 2ND FLOOR BREAK ROOM

1/4" = 1'-0"



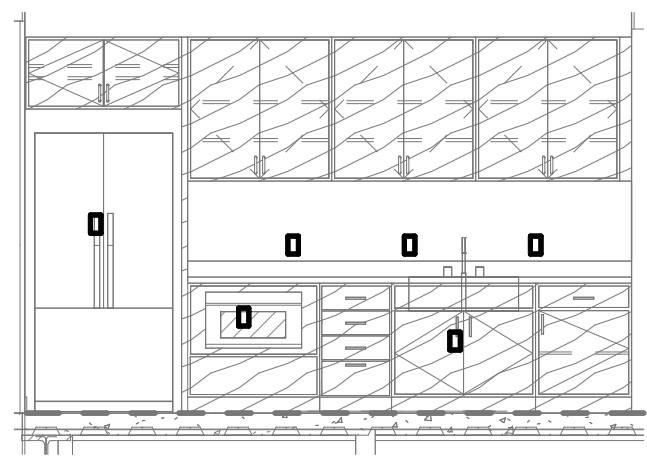
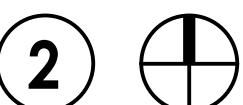
ENLARGED 2ND FLOOR IT ROOM

1/4" = 1'-0"



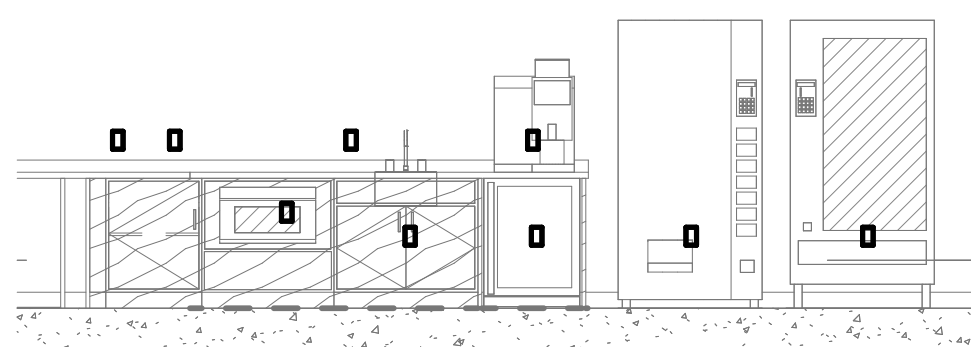
ENLARGED 2ND FLOOR MECH ROOM

1/4" = 1'-0"



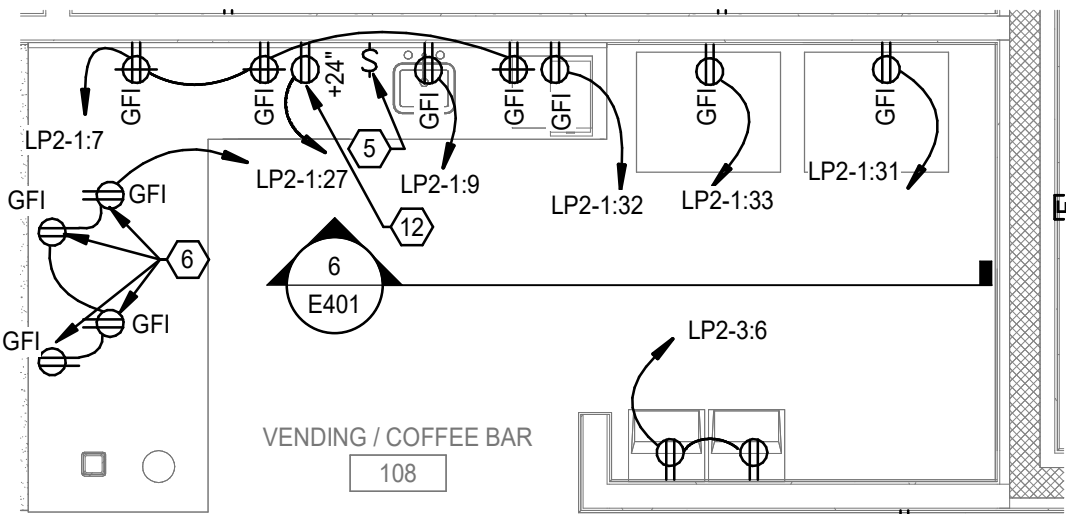
BREAK ROOM SECTION

NOT TO SCALE



COFFEE BAR SECTION

NOT TO SCALE



ENLARGED 1ST FLOOR BREAK ROOM

1/4" = 1'-0"



ELECTRICAL KEYNOTES

- 1 LADDER CABLE TRAY MOUNTED HIGH TO CEILING AND ON WALL.
- 2 5/8" FIRE RATED PLYWOOD PAINTED TO MATCH WALL. PROVIDE 96" TALL TO FULL WIDTH OF WALL SHEET.
- 3 PROVIDE A FUSED, HEAVY DUTY, LOCKABLE DISCONNECT POWER MODULE EQUAL TO BUSSMANN PS-1T48-R2-G-A WITH CLASS J FUSES. FIRE ALARM SYSTEM INTERFACE, GREEN PILOT LIGHT AND ALL NECESSARY INTERLOCKING CONTACTS. PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- 4 PROVIDE 30A, 120V, SINGLE POLE FUSED DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTS. MOUNT AT +6'-0" A.F.F. PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER. SWITCH SHALL BE CAPABLE OF BEING LOOKED "OFF".
- 5 ROUTE CIRCUIT FOR GARBAGE DISPOSAL OUTLET THROUGH TOGGLE SWITCH.
- 6 COORDINATE RECEPTACLE WITH CASEWORK.
- 7 4" EMPTY CONDUIT STUBBED UP AT 3' A.F.F. AND CAPPED WITH PULL STRINGS. ROUTED FROM FLOOR BELOW.
- 8 (2) 4" EMPTY CONDUITS STUBBED UP AT 3' A.F.F. AND CAPPED WITH PULL STRINGS. ROUTED FROM EXTERIOR BUILDING AND TERMINATED IN GRADE JUNCTION BOX. COORDINATE EXACT LOCATION WITH TELECOMMUNICATION PROVIDER.
- 9 4" EMPTY CONDUIT WITH PULL STRINGS ROUTED TO IT ROOM ON FLOOR ABOVE. PROVIDE FIRE RATED PENETRATION THRU FIRE WALL.
- 10 ROUTE (2) 4" EMPTY CONDUIT TO ABOVE CEILING ON FIRST FLOOR BELOW AND PROVIDE FIRE RATED PENETRATION THRU FIRE WALL. CONDUIT TO STUB OUT WALL TO CABLE TRAY ABOVE CEILING ON FIRST FLOOR.
- 11 WIRE MESH CABLE TRAY ABOVE CEILING ON FIRST FLOOR BELOW. REFER TO FIRST FLOOR SYSTEM PLAN FOR CONTINUATION.
- 12 COORDINATE MICROWAVE RECEPTACLE MOUNTING HEIGHT WITH CASEWORK.
- 13 VERTICAL LADDER TRAY FROM FLOOR TO 96".
- 14 4" EMPTY CONDUIT WITH PULL STRINGS ROUTED FROM ELECTRICAL ROOM ON FIRST FLOOR. PROVIDE FIRE RATED PENETRATION THRU FIRE WALL.
- 15 4" CONDUIT ROUTED BELOW GRADE FROM ELECTRICAL ROOM AND TERMINATED IN JUNCTION BOX FOR FUTURE TERMINAL BUILDING COMMUNICATION CABLEING. PROVIDE EMPTY CONDUIT WITH PULL STRINGS.
- 16 PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR DUCT. CONNECT TO FIRE ALARM CONTROL PANEL.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

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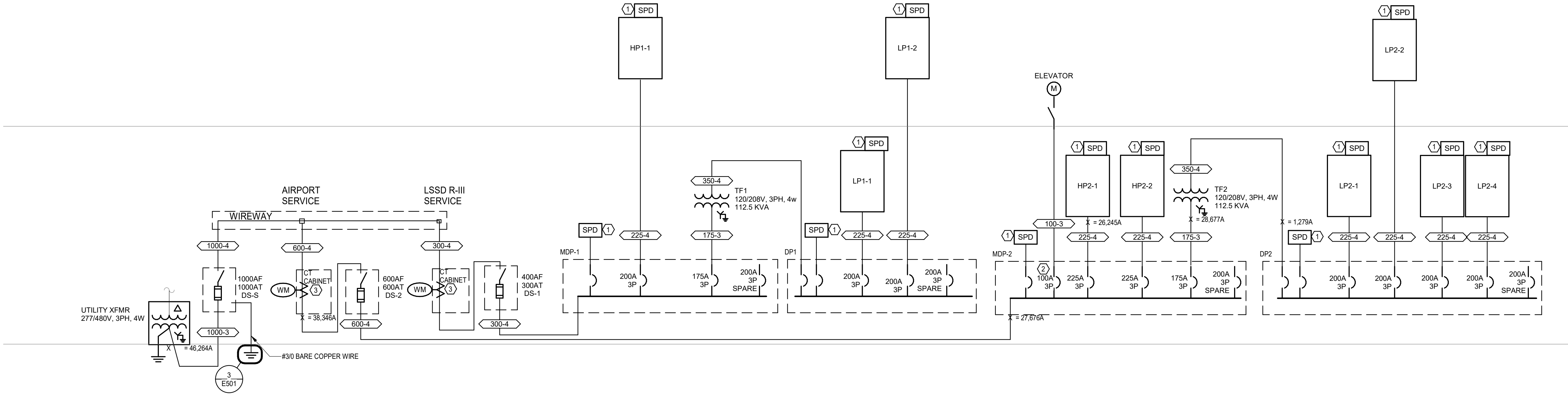
SHEET TITLE

ENLARGED PLANS

E401

SHEET 103 OF 131

12/1/2023 11:41:17 AM



ONE-LINE DIAGRAM 1
NOT TO SCALE

GENERAL SHEET NOTES

- A. PROVIDE ARC FLASH ANALYSIS AND COORDINATION STUDY PER SPECIFICATIONS.
- B. COORDINATION STUDY SHALL BE PERFORMED PRIOR TO ORDERING PANELBOARDS.

ELECTRICAL KEYNOTES

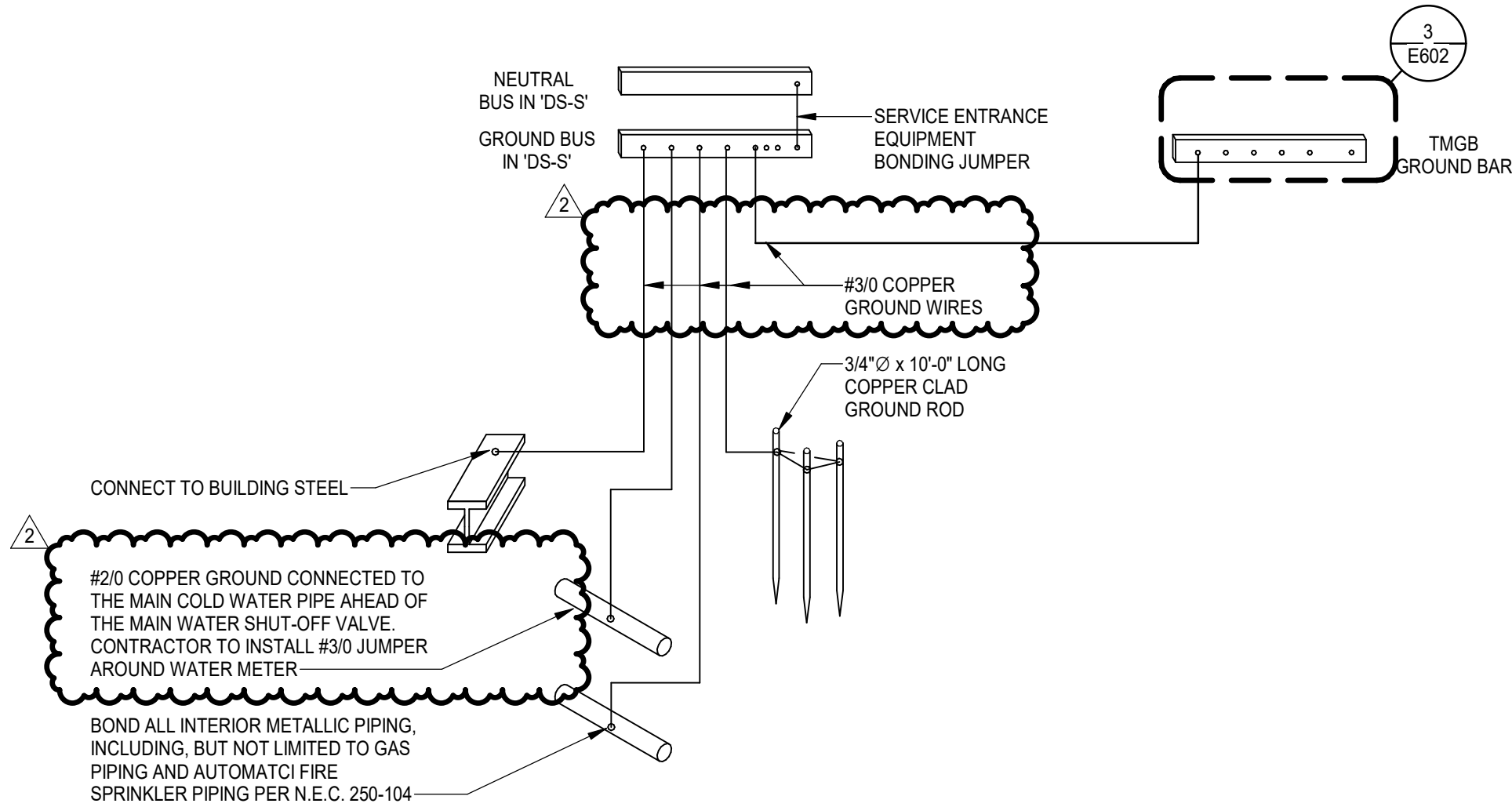
1. PROVIDE SURGE PROTECTION DEVICE TO THE TOP OF THE PANELBOARD. CONDUCTORS FROM THE BREAKER TO THE SPD SHALL BE LONGER THAN 18" AND SHALL BE INSTALLED IN PVC NIPLLE. COORDINATE BREAKER LOCATION WITH SPD LOCATION TO ENSURE CONDUCTORS ARE AS SHORT AND STRAIGHT AS POSSIBLE.
2. VERIFY EXACT AMPERAGE SIZE FOR ELEVATOR WITH MANUFACTURER SUBMITTAL.
3. METER AND CT CABINET PER UTILITY REQUIREMENTS.

UTILITY CONTACT:

EVERGY
GARY JONES
EMAIL: gary.jones@evergy.com
PHONE: 816-813-1998

FEEDER SCHEDULE - COPPER

FEEDER	AMPACITY	NO. SETS	FEEDER WIRE AND CONDUIT
100-3	100A	1	3-#3 CU, #8 CU GND - 1-1/4" C.
175-3	175A	1	3-#20 CU, #8 CU GND - 2-1/2" C.
225-4	225A	1	4-#10 CU, #4 CU GND - 2-1/2" C.
300-4	300A	1	4-#10 KCMIL CU, #4 CU GND - 3" C.
350-4	350A	2	4-#30 CU, #3 CU GND - 2-1/2" C.
600-4	600A	2	4-350 KCMIL CU, #1 CU GND - 3" C.
1000-3	1000A	3	3-400 KCMIL CU, #20 CU GND - 3" C.
1000-4	1000A	3	4-400 KCMIL CU, #20 CU GND - 3-1/2" C.



BUILDING SERVICE GROUNDING DIAGRAM 3
NOT TO SCALE



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

2 12/01 REV-2
1 11/10 REV-1

MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: OH
CHECKED BY: AF
APPROVED BY: TWO
COPYRIGHT 2023

SHEET TITLE

DIAGRAMS

E501

SHEET 104 OF 131



LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO: 022-04261

DESIGNED BY: SH

DRAWN BY: OH

CHECKED BY: AF

APPROVED BY:

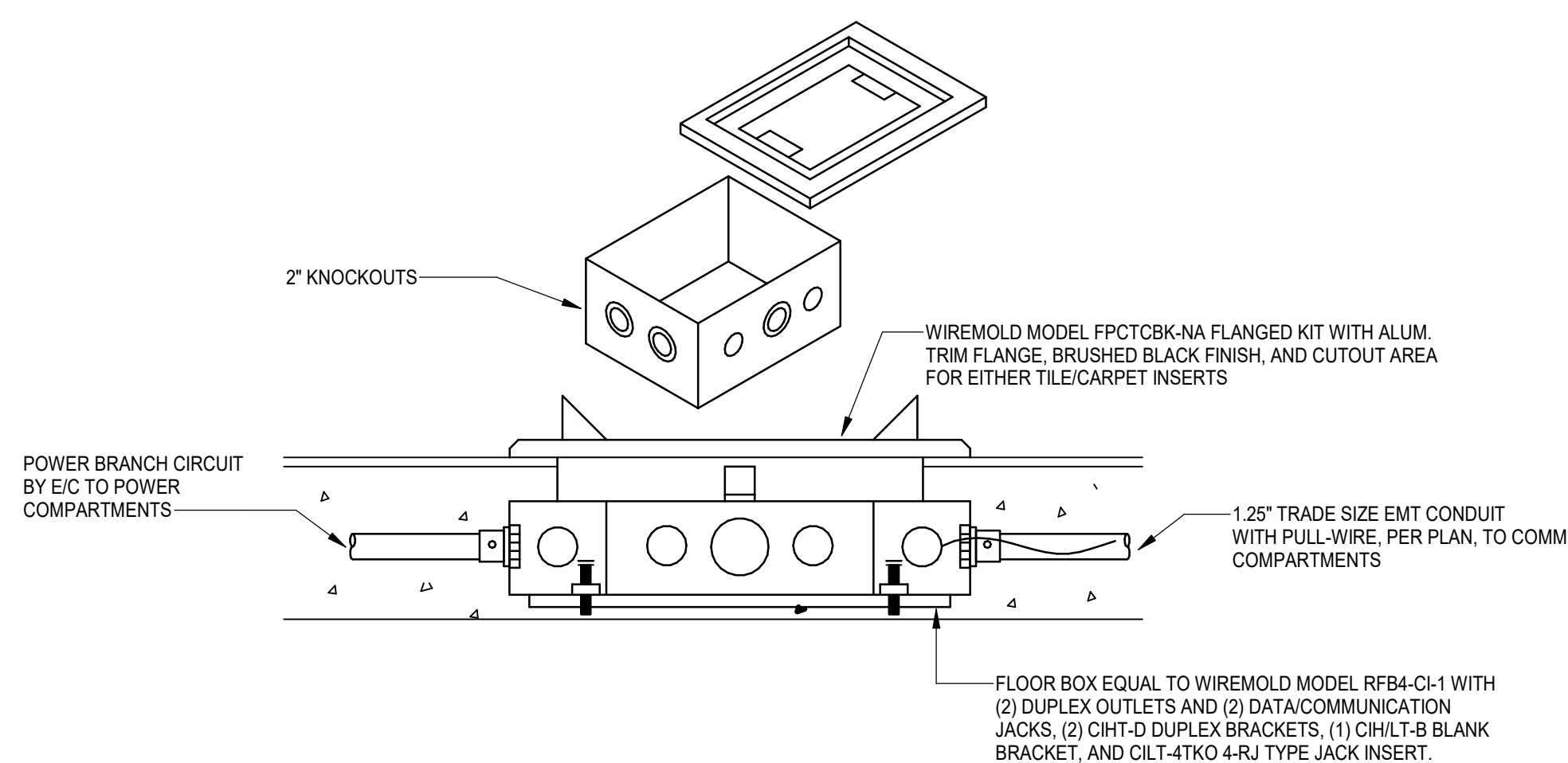
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SHEET TITLE

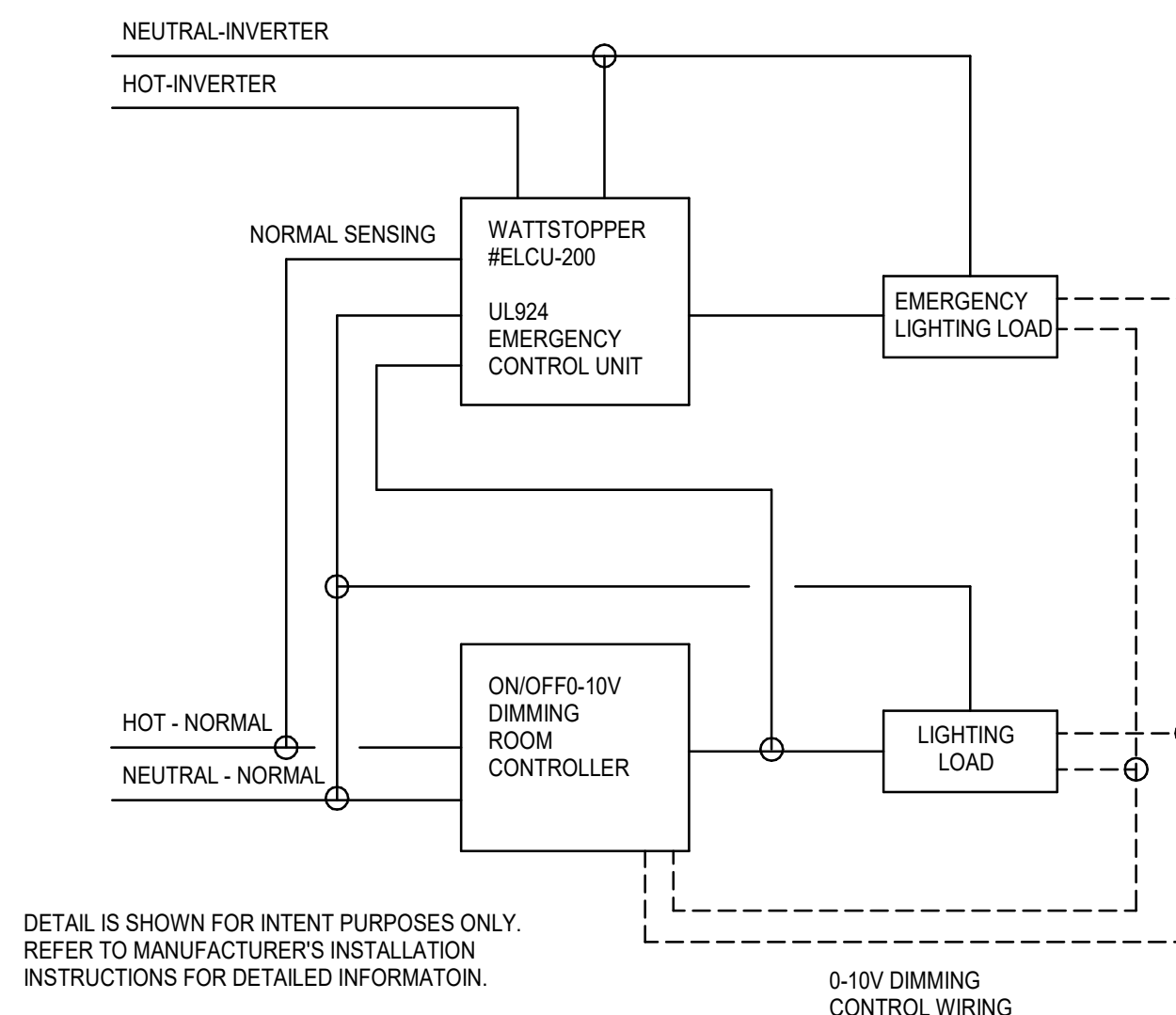
ELECTRICAL DETAILS

E601

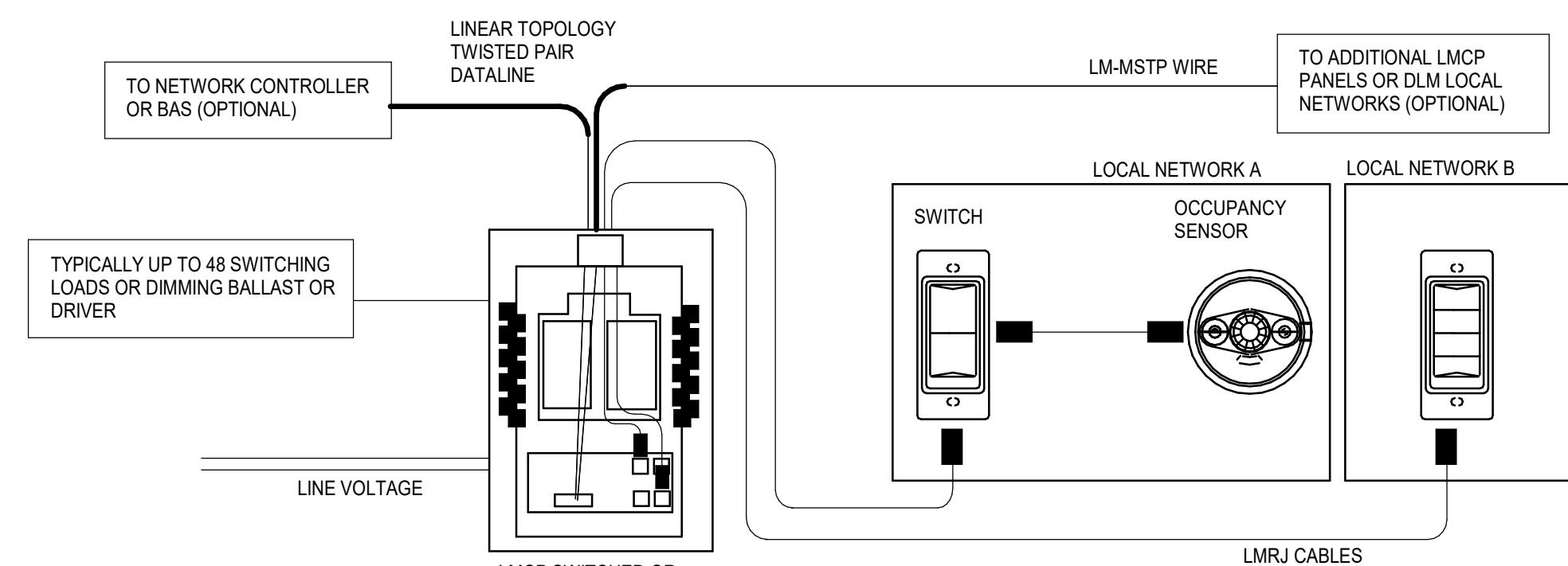
SHEET 105 OF 135



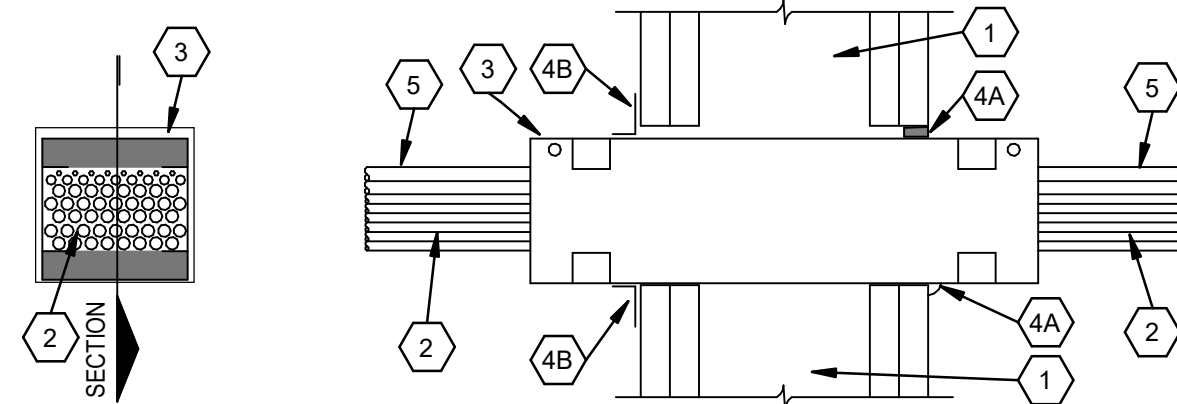
FLOOR BOX DETAIL (7)
NOT TO SCALE



ROOM CONTROLLER EMERGENCY DETAIL **6**
NOT TO SCALE



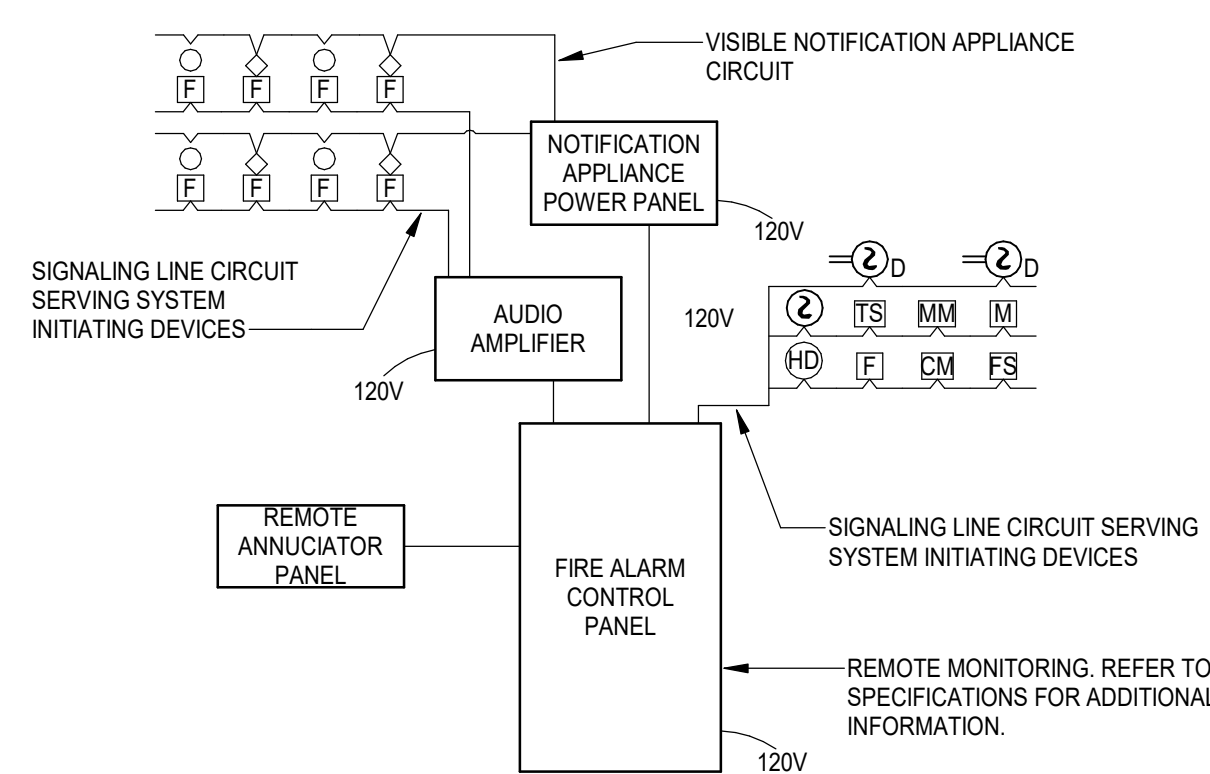
LCMP SWITCHED PANEL **4**
NOT TO SCALE



DETAIL KEY NOTES

- ① 1 OR 2 HOUR FIRE-RATED GYPSUM BOARD WALL ASSEMBLY.
- ② ACCUMULATION CABLES PASSING THROUGH FIRESTOP DEVICE. CABLE MAY OCCUPY FROM 20 TO 100 PERCENT (USUAL 40%) CABLE EYE TO BE DISTRIBUTED AT A UNIFORM HEIGHT ACROSS THE WIDTH OF THE FIRESTOP DEVICE MODULE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING CABLE TYPES MAY BE USED:
 - A. 25 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) PLENUM RATED JACKETING AND INSULATION.
 - B. 4 PAIR NO. 25 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH POLYVINYL CHLORIDE (PVC) PLENUM RATED JACKETING AND INSULATION.
 - C. "RIGID" COAXIAL CABLE WITH FLUORINATED ETHYLENE PLENUM RATED JACKETING AND INSULATION.
- ③ FIRE RATED POKE THROUGH DEVICE, 3" BY 8" BY 10" 12G GALVANIZED STEEL TUBE WITH AN INTUMESCENT MASTIC GASKET, FIRESTOP DEVICE, FIRESTOP DEVICE WITH AN AGING CURTAIN WITH THE MANUFACTURER'S INSTRUCTIONS. SPACE BETWEEN THE DEVICE AND THE PERIPHERY OF THE OPENING SHALL BE MINIMUM 0" (POI OF CONTRACT), TO MAXIMUM 12" POKE THROUGH DEVICE TO BE "SPECIFIED TECHNOLOGIES INC. #2 FIBER OPTIC SYSTEMS" OR FOR NON-FIBER OPTIC RETROFIT APPLICATIONS, E-1 JEDROP5F AND EPZ135F. FIRESTOP DEVICE MODEL IS TO BE INSTALLED WITH ITS ENDS PROJECTING AN EQUAL DISTANCE BETWEEN EACH SURFACE OF THE WALL ASSEMBLY.
- ④ NEW WALL APPLICATION ONLY - STEEL WALL PLATE AND GASKET FURNISHED WITH FIRE RATED RATED POKE THROUGH DEVICE. WALL PLATE AND GASKET INSTALLED ON BOTH SIDE OF WALL AND SECURED TO EACH DEVICE.

**FIRE RATED WALL
PENETRATION SCHEDULING** **3**
NOT TO SCALE

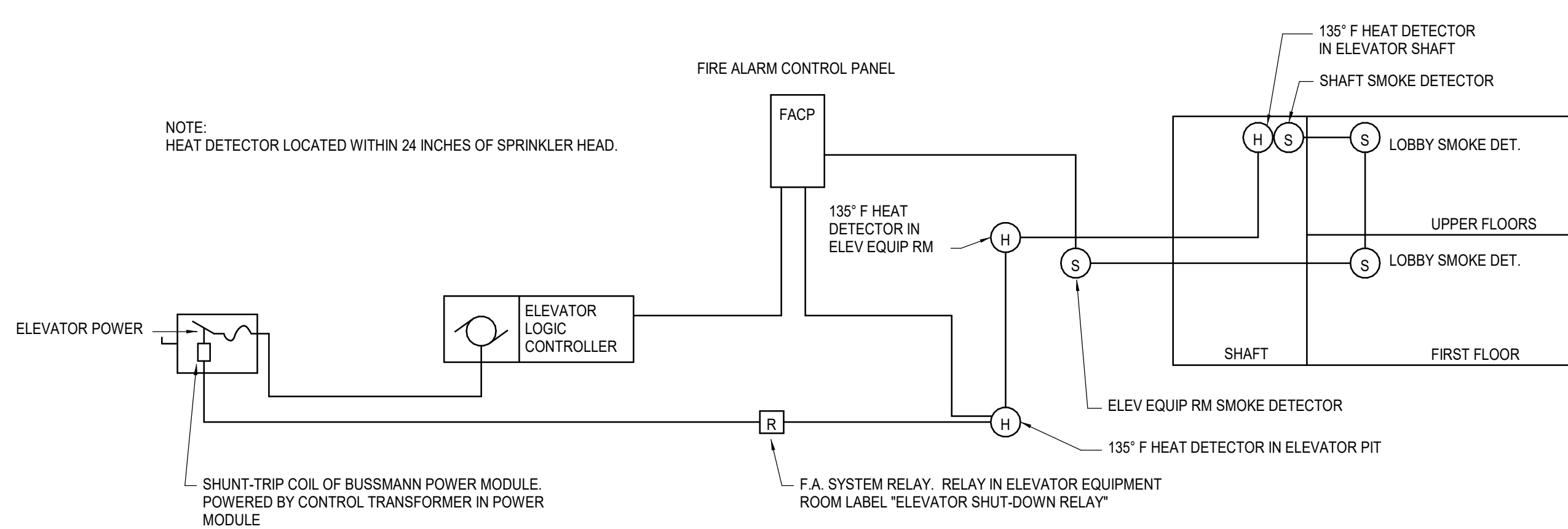


RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS AND SPECIFICATIONS FOR DEVICE AND EQUIPMENT QUANTITIES AND LOCATIONS.

DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUTDOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER.

REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION

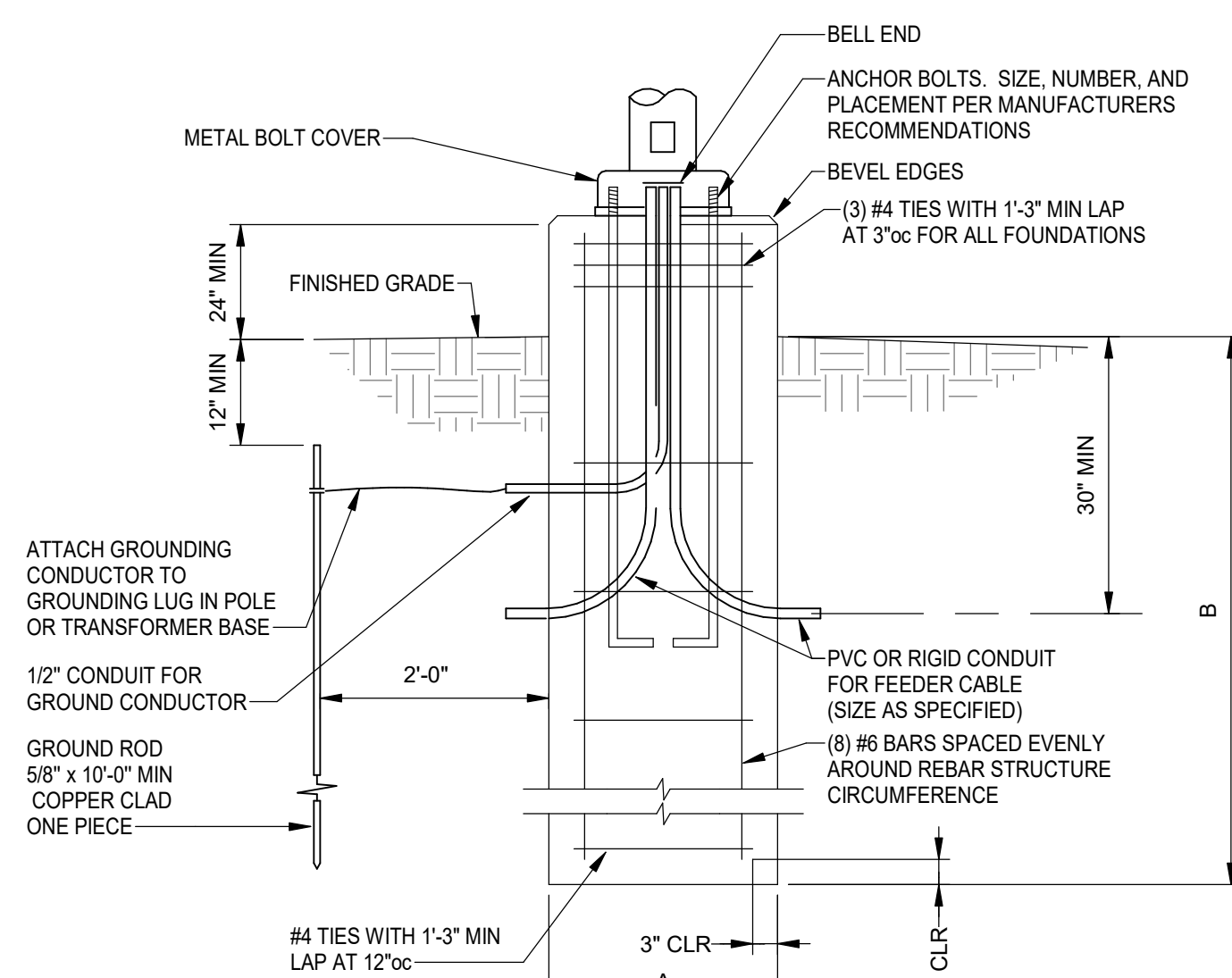
FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (VOICE) **2**
NOT TO SCALE



ELEVATOR SEQUENCE OF OPERATION: (DURING SMOKE/HEAT ALARM)

1. UPON SENSING SMOKE FROM OR ON MORE LOBBY, ELEVATOR SHAFT OR ELEVATOR EQUIPMENT ROOM SMOKE DETECTORS, THE SMOKE DETECTOR SHALL SIGNAL THE F.A.C.P., WHICH WILL FORWARD THE SIGNAL TO THE ELEVATOR LOGIC CONTROLLER TO RECALL ELEVATOR CAB TO THE DESIGNATED MAIN FLOOR. IF DESIGNATED FLOORS LOBBY SMOKE DETECTOR SENSES SMOKE AT THE FLOOR THE ELEVATOR CONTROLLER WILL SEND THE ELEVATOR CAB TO THE NEXT FLOOR CLEAR OF SMOKE. ONCE THE ELEVATOR CAB HAS REACHED THE DESIGNATED FLOOR, THE ELEVATOR CAB DOORS WILL OPEN AND THE CONTROLLER WILL LOCK THE ELEVATOR CAB AT THE FLOOR DISABLING THE ELEVATOR CAB CONTROLS. UNLESS A FIREMAN'S KEY IS USED TO OVERRIDE AUTOMATIC CONTROLS.
2. ALL SMOKE DETECTORS (LOBBY'S, HOSTWAY, MACHINE ROOM) TO TRANSMIT A SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE F.A.C.P. AND ANNUNCIATOR PANEL.
3. HEAT DETECTORS IN THE ELEVATOR SHAFT FIT AT ELEVATOR EQUIPMENT ROOM WILL SEND A SIGNAL TO THE SHUNT-TRIP SWITCH POWERING THE ELEVATOR AND WILL SHUT DOWN POWER TO THAT CIRCUIT/THIS IS A NON-AUTO RESET SWITCH. WHEN THE SPRINKLER HEAD HAS REACHED ITS CRITICAL TEMPERATURE OF 165° F., THE HEAD WILL BEGIN DISCHARGE OF WATER.

ELEVATOR INTERLOCK WITH FIRE ALARM 1
NOT TO SCALE



CONCRETE LIGHT POLE BASE **5**
NOT TO SCALE

FOUNDATION DESIGN LIMITATIONS	
1.	THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL DEFORMATION MODULUS OF 0.50 KSI
2.	THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL UNDRANDED SHEAR STRENGTH OF 0.50 KSF
3.	THIS FOUNDATION WAS DESIGNED FOR A MAXIMUM ALLOWABLE LATERAL DEFLECTION OF 1/2 INCH OVERALL AT GRADE ELEVATION
4.	THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED DEPTH TO ROCK GREATER THAN TWENTY FEET FROM FINISHED GRADE
5.	THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED WATER TABLE LOCATED AT THE SOIL SURFACE.
6.	THIS FOUNDATION WAS NOT DESIGNED TO WITHSTAND THE EFFECTS OF SCOURING.
7.	IF CONDITIONS OTHER THAN THOSE SPECIFIED HEREIN ARE PRESENT AT THE SITE, INCLUDING NON-COHESSIVE SOILS FOUND IN BORINGS, PLEASE CONTACT THE ENGINEER OF RECORD.

STRUCTURAL CONCRETE

CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF:

- CI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- CI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
- CI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
- CI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
- CI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
- CI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- CI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

L HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS.

EARTHWORK

- E.1. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION OF THE SUBGRADE.
- E.2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT STRUCTURE.
- E.3. REFER TO THE GEOTECH REPORT FOR SUBSURFACE CONDITIONS AND CONSTRUCTION CONSIDERATIONS.

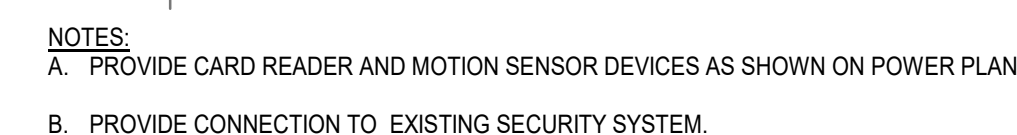
LIGHT FOUNDATION DATA		
MOUNTING HEIGHT	A	B
UP TO 30'	2'-0"	5'-0"
31' TO 40'	2'-0"	5'-6"

CONCRETE CLASS "KCMMB 4000

HEAVY HEX GALVANIZED NUTS: (AASHTO M291, GR A)
FLAT WASHERS GALVANIZED: (AASHTO M293)

GENERAL NOTES

01. THE CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES BEFORE CONSTRUCTING NEW FOUNDATIONS.
02. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
03. EXCAVATE SHAFTS FOR DRILLED FOUNDATIONS TO INDICATED ELEVATIONS. REMOVE LOOSE DEBRIS, MATERIALS AND/OR MUCK TO MAKE BOTTOM SURFACE LEVEL, WITHIN ± 0.31 TOLERANCES.
04. CONSTRUCTION TOLERANCES:
 - A. BOTTOM DIAMETER: MINUS ZERO PLUS 6 INCHES, MEASURED IN ANY DIRECTION.
 - B. MAXIMUM VARIATION FROM PLUMB: 1/4."
 - C. MAXIMUM BOTTOM LEVEL: PLUS OR MINUS 2 INCHES.
05. AT NO ADDITIONAL COST, CASE PIER SHAFTS AS NECESSARY, PROTECT EXCAVATED WALLS WITH TEMPORARY WATERPROOFED STEEL CASINGS OF SUFFICIENT LENGTH TO PREVENT WATER INTRUSION, CAVE-INS, DISPLACEMENT OF SURROUNDING EARTH, INJURY TO PERSONNEL AND DAMAGE TO CONSTRUCTION OPERATIONS. MAINTAIN EXCAVATIONS IN ESSENTIALLY DRY CONDITION, USING PUMPS WHERE NECESSARY. REMOVE WATER TO A MAXIMUM DEPTH OF 6 INCHES FROM EXCAVATED SHAFT PRIOR TO CONCRETE PLACEMENT.
06. CONVEY CONCRETE FROM THE MIXER TO PLACE OF DEPOSIT BY BEST INDUSTRY METHODS THAT WILL PREVENT SEGREGATION AND LOSS OF MATERIAL. SIZE AND DESIGN THE EQUIPMENT FOR CONVEYING CONCRETE TO ENSURE UNIFORM, CONTINUOUS PLACEMENT OF CONCRETE. PLACE CONCRETE IN A SINGLE LIFT. MAINTAIN PLACEMENT OF CONCRETE IN CONTINUOUS OPERATION AND WITHOUT SEGREGATION INTO DRY EXCAVATIONS WHENEVER POSSIBLE. USE ALL PRACTICABLE MEANS TO OBTAIN A DRY EXCAVATION BEFORE AND DURING CONCRETE PLACEMENT.
07. WHEN PULVING CASING, MAINTAIN LEVEL, OF CONCRETE ABOVE BOTTOM OF CASING (BUT NOT EQUAL TO) OF 12 INCHES OF GRIT OR DEEPER BOTTOM OF CASING AT LEAST 1 FEET BELOW TOP OF CONCRETE. PREVENT IN-SITU MATERIALS FROM FALLING INTO AND MIXING WITH CONCRETE. PULV CASING IN SHORT SLOVE VERTICAL LIFTS (ESSENTIALLY CONTINUOUS), MAINTAINING PLUMB ALIGNMENT AND SUFFICIENT HEAD OF CONCRETE.
08. ALL CONCRETE SHALL BE CLASS CMMB 4000
09. ALL REINFORCING SHALL BE STRUCTURAL GRADE 60 PER ASTM-A615 AND HAVE AT LEAST 3" OF CONCRETE COVER
10. ANCHOR BOLTS ARE TO BE FURNISHED BY THE FOUNDATION CONTRACTOR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PLACE ALL REBAR SO AS TO NOT INTERFERE WITH ANCHOR BOLTS
11. ALL ABOVE GRADE FOUNDATION SURFACES SHALL BE STEEL TROWEL FINISHED UNLESS OTHERWISE NOTED
12. EACH PIER FOUNDATION SHALL BE CONSTRUCTED IN A SINGLE CONTINUOUS POUR.
13. NO EXCAVATION OR VIBRATION-INDUCING ACTIVITIES ARE ALLOWED WITHIN 3 PIER DIAMETERS OF A SUBJECT PIER UNTIL AT LEAST 24 HOURS HAVE ELAPSED SINCE THE TIME OF CONCRETE PLACEMENT. COVER ALL OPERATIONS BETWEEN OPERATIONS. REMOVE FOREIGN AND LOOSE MATERIAL FROM APPROVED EXCAVATION.
14. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION. ANY DAMAGE TO EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.



ROOM NAME	CONTROLS											SEQUENCE OF OPERATIONS	NOTES				
	MANUAL ON	MANUAL OFF	DIMMING SWITCH	VERRIDE SWITCH	MULTIZONE SWITCH	KEY SWITCH	TIME CLOCK ON	TIME CLOCK OFF	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR OFF	PHOTOCONTROL SWITCHING			PHOTOCONTROL DIMMING	INTERIOR PHOTOCELL ON/OFF	EXTERIOR PHOTOCELL ON/OFF	WIRING DIAGRAM REFERENCE
VESTIBULE			X						X	X						5	SEE SEQUENCE 3 BELOW
CONFERENCE/ CLASSROOMS			X		X				X	X						4	SEE SEQUENCE 3 BELOW
CORRIDOR/ LOBBY / WAITING				X					X	X						1	SEE SEQUENCE 3 BELOW
RESTROOM									X	X						1	SEE SEQUENCE 3 BELOW
PILOT LOUNGE/ PILOT QUIET ROOM				X					X	X						5	SEE SEQUENCE 3 BELOW
OFFICES				X					X	X						5	SEE SEQUENCE 3 BELOW
JANITOR / MECH / ELEC	X	X		X												2	
EXTERIOR							X										SEE SEQUENCE 3 BELOW
LARGE RESTROOM									X	X							
BREAKROOM									X	X						4	
STORAGE									X	X							SEE SEQUENCE 3 BELOW
HANGAR	X	X															SEE SEQUENCE 3 BELOW

NOTES:

A. OCCUPANCY ON SENSOR SHALL BE SET TO STAY ON FOR 20 MIN

SEQUENCE OF OPERATIONS

1. LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSOR. WHEN SPACE IS OCCUPIED LIGHTS SHALL TURN ON 100%. WHEN SPACE IS UNOCCUPIED LIGHTS SHALL TURN OFF. SPACE SHALL HAVE A MANUAL OVERRIDE SWITCH TO OVERRIDE OCCUPANCY SENSING
2. LIGHTING FIXTURES SHALL BE CONTROLLED BY TOGGLE ON/OFF LIGHT SWITCH.
3. LIGHTING FIXTURES WHERE SHOWN TO BE EMERGENCY LIGHT FIXTURES SHALL HAVE UL924 DEVICE TO OVERRIDE CONTROLS IN SPACE AND BE CIRCUITED TO INVERTER. DURING LOSS OF POWER LIGHT FIXTURES SHOWN AS EMERGENCY SHALL TURN ON 100%. LIGHT FIXTURES SHOWN AS NIGHT LIGHTS SHALL HAVE AN UNSWITCHED HOT CONDUCTOR AND SHALL BE TURNED ON 100% REGARDLESS OF LOCAL CONTROLS.
4. LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSOR WITH DIMMING SCENE SELECTOR SWITCH OVERRIDE. SCENE SELECTION SHALL BE THE FOLLOWING : 1. ALL DIM TO 50%. 3. FRONT OF ROOM OFF AND BACK ROOM DIM TO 50%. 4. ALL DIM.
5. LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSOR AND DIMMING SWITCH OVERRIDE. WHEN SPACE IS OCCUPIED LIGHTS SHALL TURN ON 100%. WHEN SPACE IS UNOCCUPIED LIGHTS SHALL TURN OFF. DIMMING SWITCH SHALL DIM LIGHT FIXTURES TO OFF.

INVERTER TAG:	MANUFACTURER:	MODEL NUMBER:	WATTAGE:	CONNECTED WATTAGE:	INPUT VOLTAGE:	OUTPUT VOLTAGE:	BREAKERS
LI-1	MEYERS	6-EM-3-S-BD10-05	2200	1692 VA	277	277	5
LI-2	MEYERS	6-EM-4-S-BD10-05	2800	2098 VA	277	277	5
LI-3	MEYERS	6-EM-3-S-BD10-05	2200	1082 VA	277	277	5

ITEM	DESCRIPTION	VOLTS	PHASE	DISC BY	DISC TYPE	DISC SIZE	NEMA	CONDUCTORS			CONDUIT SIZE	
								PHASE	NEUTRAL	GROUND		
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	1-#12	1-#12	1-#12	3/4"
CRV-A	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-B	INFRARED HEATER	120 V	1	-	-	-	-	-	-	1-#12	1-#12	3/4"
CRV-P	VACUUM PUMP	480 V	3	DW	MS	30A	3R	3-#10	-	1-#10	3/4"	
CRV-P	VACUUM PUMP	480 V	3	DW	MS	30A	3R	3-#10	-	1-#10	3/4"	
CU-1a	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
CU-1b	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
CU-1c	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
CU-2a	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
CU-2b	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
CU-2c	CONDENSING UNIT	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
DEF-1	DUCT EXHAUST FAN	120 V	1	-	-	-	-	-	1-#12	1-#12	1-#12	3/4"
DEF-2	DUCT EXHAUST FAN	120 V	1	-	-	-	-	-	1-#12	1-#12	1-#12	3/4"
DF-1	DESTRATIFICATION FAN	208 V	1	-	-	-	-	-	2-#12	-	1-#12	3/4"
DF-2	DESTRATIFICATION FAN	208 V	1	-	-	-	-	-	2-#12	-	1-#12	3/4"
DF-3	DESTRATIFICATION FAN	208 V	1	-	-	-	-	-	2-#12	-	1-#12	3/4"
DF-4	DESTRATIFICATION FAN	208 V	1	-	-	-	-	-	2-#12	-	1-#12	3/4"
EF-1	EXHAUST FAN	120 V	1	-	-	-	-	-	1-#12	1-#12	1-#12	3/4"
EF-2	EXHAUST FAN	480 V	3	-	-	-	-	-	3-#10	-	1-#10	3/4"
EF-3	EXHAUST FAN	480 V	3	-	-	-	-	-	3-#10	-	1-#10	3/4"
EF-4	EXHAUST FAN	120 V	1	-	-	-	-	-	1-#12	1-#12	1-#12	3/4"
EW-1	ELECTRIC RECOVER WHEEL	480 V	3	DW	ND	30A	3R	3-#10	-	1-#10	3/4"	
GF-1	GAS FURNACE	120 V	1	DW	ND	30A	1	1-#12	1-#12	1-#12	3/4"	
GF-2	GAS FURNACE	120 V	1	DW	ND	30A	1	1-#12	1-#12	1-#12	3/4"	
GF-3	GAS FURNACE	120 V	1	DW	ND	30A	1	1-#12	1-#12	1-#12	3/4"	
GF-4	GAS FURNACE	120 V	1	DW	ND	30A	1	1-#12	1-#12	1-#12	3/4"	
GF-5	GAS FURNACE	120 V	1	DW	ND	30A	1	1-#12	1-#12	1-#12	3/4"	
GF-6	GAS FURNACE	120 V										

FIXTURE	TYPE	MOUNTING	DESCRIPTION	MANUFACTURER	MODEL	LAMP			VOLTA E	
						TYPE	CCT	INPUT POWER		
A	SUSPENDED	16" DIAMETER LED HIGH BAY LIGHT FIXTURE	METALUX	SSLSD-105-24W-JUNV-L840-CD1	LED	4000 K	190 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 32'-0" A.F.F.	
A2	SUSPENDED	16" DIAMETER LED HIGH BAY LIGHT FIXTURE	METALUX	SSLSD-105-124W-JUNV-L840-CD1	LED	4000 K	85 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 32'-0" A.F.F.	
AE	SUSPENDED	16" DIAMETER LED HIGH BAY LIGHT FIXTURE. EMERGENCY CIRCUIT	METALUX	SSLSD-124W-JUNV-L840-CD1	LED	4000 K	85 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 32'-0" A.F.F.	
A8	SUSPENDED	16" DIAMETER LED HIGH BAY LIGHT FIXTURE. EMERGENCY CIRCUIT	METALUX	SSLSD-105-24W-JUNV-L840-CD1	LED	4000 K	190 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 32'-0" A.F.F.	
R	RECESSED	RECESSED 24X2 DIRECT/INDIRECT LED TROFFER	CORELITE	R24W-2L40-LD05-UNV-24-T1-STD.	LED	4000 K	35 VA	277 V		
R2	RECESSED	RECESSED 24X2 DIRECT/INDIRECT TROFFER	CORELITE	R24W-5L40-LD05-UNV-22-T1-STD	LED	4000 K	38 VA	277 V		
R3	RECESSED	RECESSED 24X2 DIRECT/INDIRECT TROFFER. EMERGENCY CIRCUIT	CORELITE	R24W-5L40-LD05-UNV-22-T1-STD	LED	4000 K	38 VA	277 V		
BE	RECESSED	RECESSED 24X2 DIRECT/INDIRECT LED TROFFER. EMERGENCY CIRCUIT	CORELITE	R24W-2L40-LD05-UNV-24-T1-STD-E4L14W	LED	4000 K	35 VA	277 V		
C	RECESSED	6" DIAMETER LED DOWN LIGHT	HALO	HC6-25-D010 HM6-3040-840-61-MD-C	LED	4000 K	28 VA	277 V		
C3	RECESSED	4" LED SQUARE DOWN LIGHT	HALO	PR64-F34-30-D010-9M348F5-415-WD-C	LED	4000 K	27 VA	277 V		
C4E	RECESSED	4" LED SQUARE DOWN LIGHT. EMERGENCY CIRCUIT	HALO	PR64-F34-30-D010-9M348F5-415-WD-C	LED	4000 K	27 VA	277 V		
C5	RECESSED	4" LED SQUARE DOWN LIGHT WITH EMERGENCY CIRCUIT	HALO	HC6-25-D010-IEH14 HM6-3040-840-61-MD-C	LED	4000 K	28 VA	277 V		
D	RECESSED	4"x 8" LED RECESSED LINEAR WITH REGRESSED LENS DIRECT, 0-10V DIMMING	FINELITE	HP-4-RRG-D-8-4840-RG-D-98LG-27T-SC-FC-10-C1	LED	4000 K	56 VA	277 V		
D6	RECESSED	4"x 8" LED RECESSED LINEAR WITH REGRESSED LENS DIRECT, 0-10V DIMMING	FINELITE	HP-4-RRG-D-8-4840-RG-D-98LG-27T-SC-FC-10-C1	LED	4000 K	43 VA	277 V		
F	SUSPENDED	8" SUSPENDED LENSED LED STRIP LIGHT	METALUX	8SNX-4ASL-LNFDL-UNV-L840-CD-1-T1-TOGGLE-102PK	LED	4000 K	28 VA	277 V		
F2	SURFACE	4" LED SURFACE MOUNTED STRIP WITH ROUND CLEAR LENS	LITHONIA	48NX-4ASL-LN-UNV-L840-CD-1	LED	4000 K	30 VA	277 V		
F3E	SURFACE	4" LED SURFACE MOUNTED STRIP WITH ROUND CLEAR LENS	LITHONIA	48NX-4ASL-LN-UNV-L840-CD-1	LED	4000 K	30 VA	277 V		
F4	SUSPENDED	4" SUSPENDED LENSED LED STRIP LIGHT	METALUX	48NX-4ASL-LNFDL-UNV-L840-CD-1-T1-TOGGLE-102PK	LED	4000 K	37 VA	277 V		
F8	SUSPENDED	8" SUSPENDED LENSED LED STRIP LIGHT. EMERGENCY CIRCUIT	METALUX	8SNX-4ASL-LNFDL-UNV-L840-CD-1-T1-TOGGLE-102PK	LED	4000 K	28 VA	277 V		
GE	RECESSED	1-T8AR LED	J-LC TECH	TBSL-AMN-4-15-D-J-W	J-LC TECH	LED	4000 K	20 VA	277 V	VERIFY CEILING GRID TYPE. PROVIDE LOW VOLTAGE TRANSFORMER
G2	RECESSED	1-T8AR LED	J-LC TECH	TBSL-AMN-2-D-J-W	J-LC TECH	LED	4000 K	20 VA	277 V	VERIFY CEILING GRID TYPE. PROVIDE LOW VOLTAGE TRANSFORMER
GE	RECESSED	1-T8AR LED. EMERGENCY CIRCUIT	J-LC TECH	TBSL-AMN-4-15-D-J-W	J-LC TECH	LED	4000 K	40 VA	277 V	VERIFY CEILING GRID TYPE. PROVIDE LOW VOLTAGE TRANSFORMER
H	SURFACE	2" LED LINEAR VAPORITE	HE WILLIAMS	96-4L-29-8-40-PCFR-DIMUNV	HE WILLIAMS	LED	4000 K	25 VA	277 V	
K	SUSPENDED	4"x 8" LED SUSPENDED LINEAR DIRECT/INDIRECT, 0-10V DIMMING	FINELITE	HP-P-D-8-4845-840T-F-27T-SC-FC-10	LED	4000 K	56 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 9'-0" A.F.F.	
KE	SUSPENDED	4"x 8" LED SUSPENDED LINEAR DIRECT/INDIRECT. EMERGENCY CIRCUIT	FINELITE	HP-P-D-8-4845-840T-F-27T-SC-FC-10	LED	4000 K	56 VA	277 V	PENDANT MOUNT FIXTURE FROM STRUCTURE ABOVE TO 9'-0" A.F.F.	
P	POLE	LED DOUBLE HEAD LIGHT MOUNT ON 26" POLE AND CONCRETE BASE	MCGRAW EDISON	GALN-54C-740-U1-T3 POLE, SSS-5A-26-S-Y	LED	4000 K	320 VA	277 V		
W	WALL	LED WALL PACK	LUMARK	XTOR48-WBK	LED	4000 K	38 VA	277 V		
WE	WALL	LED WALL PACK	LUMARK	XTOR48-WBK	LED	4000 K	38 VA	277 V		
X	WALL	EXIT SIGN MOUNT WITH WIRE. CAUARD AND EMERGENCY CIRCUIT	SURE-LITES	LPK-7-ANG10	LED	4000 K	4 VA	277 V		
XY	WALL	EXIT SIGN MOUNT MOUNT WITH WIRE AND EMERGENCY CIRCUIT	SURE-LITES	LPK-7-ANG10	LED	4000 K	4 VA	277 V		
Y	WALL	EXIT SIGN MOUNT MOUNT	SURE-LITES	LPK-7	LED	4000 K	5 VA	277 V		



SHEET 107 OF 131

PANEL HP2-2 VOLTAGE 480Y/277V Wye MCB OR MLO MLO FED FROM MDP-2					PHASE BUS RATING 225 A AIC RATING 30K					LOCATION HANGAR 126 MOUNTING SURFACE NO. OF POLES 42										
NOTE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A	B	C	CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE								
	PARKING LOT LIGHTING	20 A	1	1	320	468		2	1	20 A	EXTERIOR LIGHTING									
	LTG HANGER SOUTH	20 A	1	3			4940	0		4	1	20 A	SPARE							
	LTG RR 105/106	20 A	1	5					6	1	20 A	LTG MECH/STORAGE BK RM								
	PILOT LOUNGE LIGHTING	20 A	1	7	524	872			8	1	20 A	LTG 2ND FLR CORRIDOR/OFFICES								
	SPARE	20 A	1	9			0	0		10	1	20 A	SPARE							
	OPEN OFFICE/CONFERENCE - 205...	20 A	1	11				1909	757	12	1	20 A	LI-2							
	LTG OFFICES AND CORRIDOR	20 A	1	13	1034	943			14	3	20 A	VACUUM PUMP 2								
--	GPU RECEPT	60 A	3	15	--	--	7202	943	--	16	--	--	--							
--	--	--	--	17	--	--	--	--	--	18	--	--	--							
--	--	--	--	19	7202	7202	--	--	--	20	3	60 A	GPU RECEPT							
	GPU RECEPT - EXTERIOR	60 A	3	21	--	--	7202	7202	--	22	--	--	--							
--	--	--	--	23	--	--	--	--	7202	7202	24	--	--							
--	--	--	--	25	7202	3650	--	--	--	26	1	20 A	DEICER							
GFPE	DEICER	20 A	1	27	--	--	3650	3650	--	28	1	20 A	DEICER							
GFPE	DEICER	20 A	1	29	--	--	--	--	3650	3650	30	1	20 A	DEICER						
GFPE	DEICER	20 A	1	31	3650	3650	--	--	--	32	1	20 A	DEICER							
GFPE	DEICER	20 A	1	33	--	--	3650	0	--	34	1	20 A	SPARE							
	HANGER DOOR	30 A	3	35	--	--	--	--	3878	0	36	1	20 A	SPARE						
--	--	--	--	37	--	--	--	--	--	38	3	30 A	SPD							
--	--	--	--	39	--	--	3878	0	--	40	--	--	--							
--	SPARE	20 A	1	41	--	--	--	--	0	0	42	--	--							
					KVA 41.93...	KVA 42.317...	KVA 37.39...													
					AMPS 154	AMPS 155	AMPS 135													
LOAD CLASSIFICATIONS		CONNECTE D (VA)	DEMAND FACTOR	DEMAND (VA)	CONNECTED LOAD: 121.6... 146								MAXIMUM DEMAND: 98.15... 118							
HVAC		3650 VA	100.00%	3650 VA																
Lighting		12842 VA	125.00%	16052 VA																
Motor		2829 VA	125.00%	3536 VA																
Non Concurrent		11634 VA	100.00%	11634 VA																
Other		25870 VA	100.00%	25870 VA																
Receptacle		64818 VA	57.71%	37409 VA																

PANEL LP-1.2 VOLTAGE 208Y/120V 3PH MCB OR MLO MLO FED FROM DP-1					PHASE BUS RATING 225 A AIC RATING 10K					LOCATION IT CLOSET / MECH / ELEC.. MOUNTING SURFACE NO. OF POLES 32				
NOTE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A	B	C	CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE		
	RECEPT: 2nd FLOOR STAIR 1 - 203	20 A	1	1	180	850		2	1	15 A	GF-10			
	RECEPT: CONFERENCE - 220A	20 A	1	3		540	1000		4	1	20 A	RECEPT: 2nd REELS 2		
	RECEPT: CONFERENCE - 220	20 A	1	5			900	900	6	1	20 A	RECEPT: RM 219		
	RECEPT: 2nd REELS 1	20 A	1	7	1000	1115			8	1	15 A	GF-11		
	GF-12	20 A	1	9		1500	88		10	2	20 A	DF-4		
	GF-14	20 A	1	11			1500	88	12	--	--	--		
	DP-3	20 A	2	13	88	850			14	1	15 A	GF-13		
--		--	--	15		88	850		16	1	15 A	GF-8		
	GF-9	15 A	1	17			850	1000	18	1	20 A	TV DRONE PAD - 218		
	TV CONFERENCE - 220	20 A	1	19	1000	360			20	1	20 A	RECEPT - IT QUAD		
	TV DRONE PAD - 218	20 A	1	21		1000	720		22	1	20 A	RECEPT: 2nd IT ROOM		
	EF-1	20 A	1	23				1339	360	24	1	20 A	RECEPT - IT QUAD	
	SPARE	20 A	1	25	0	0			26	1	20 A	SPARE		
	SPARE	20 A	1	27		0	0		28	1	20 A	SPARE		
	SPARE	20 A	1	29			0	0	30	1	20 A	SPARE		
	SPARE	20 A	1	31	0	0			32	1	20 A	SPARE		
	SPARE	20 A	1	33		0	0		34	1	20 A	SPARE		
	SPARE	20 A	1	35				0	36	1	20 A	SPARE		
	SPARE	20 A	1	37	0	0			38	3	30 A	SPD		
	SPARE	20 A	1	39		0	0		40	--	--	--		
	SPARE	20 A	1	41				0	42	--	--	--		
					KVA	5.4425	KVA	5.785	KVA	6.9365				
					AMPS	45	AMPS	49	AMPS	58				
LOAD CLASSIFICATIONS		CONNECTE D (VA)	DEMAND FACTOR	DEMAND (VA)										
HVAC	6227 VA	100.00%	6227 VA											
Motor	1650 VA	120.00%	2225 VA											
Other	360 VA	100.00%	360 VA											
Power	1127 VA	100.00%	1127 VA											
Receptacle	8600 VA	100.00%	8600 VA											
					CONNECTED LOAD: 18.164 50 MAXIMUM DEMAND: 18.539 51									
NOTES: APCI - ARC FAULT CIRCUIT INTERRUPTION TYPE CIRCUIT BREAKER C24 - CONTROL ZONE NUMBER FOR REMOTE CONTROL BMS# - ROUTE CIRCUIT THROUGH BUILDING MANAGEMENT SYSTEM GFCI - GROUND FAULT CIRCUIT INTERRUPTING TYPE CIRCUIT... GFPE - GROUND FAULT PROTECTION EQUIPMENT CIRCUIT BREAKER H/L - HANDLE LOCK ON DEVICE FOR CIRCUIT BREAKER HPL- PADLOCK ATTACHMENT TO LOCK C/B HANDLE IN OPEN POSITION														

11/8/2023 9:42:53 AM

FIRE SPRINKLER SYMBOL LEGEND			
GENERAL			
	EXISTING		NEW TO EXISTING
	UNDERGROUND		SHEET NOTE
	NEW		REVISION DELTA
VALVES			
	T & P RELIEF VALVE		BALANCING VALVE
	ISOLATION VALVE		AUTOMATIC 2-WAY VALVE
	ISOLATION VALVE IN VERTICAL POSITION		AUTOMATIC 3-WAY VALVE
	CHECK VALVE		STRAINER
			UNION
	PRESSURE REDUCING & REGULATING VALVE		PRESSURE REGULATING VALVE
			DIAPHRAGM VALVE
			ANGLE VALVE
FIRE			
	FIRE PROTECTION PIPING		SPRINKLER HEAD, PENDANT
	FIRE DEPARTMENT CONNECTION		SPRINKLER HEAD, SIDE WALL
	TAMPER SWITCH		ALARM VALVE, WET
	FLOW SWITCH		ALARM VALVE, DRY
			POST INDICATOR VALVE
			POST INDICATOR VALVE WITH TAMPER SWITCH
			BUILDING SPRINKLER FIRE MAIN

FIRE PROTECTION DESIGN CRITERIA

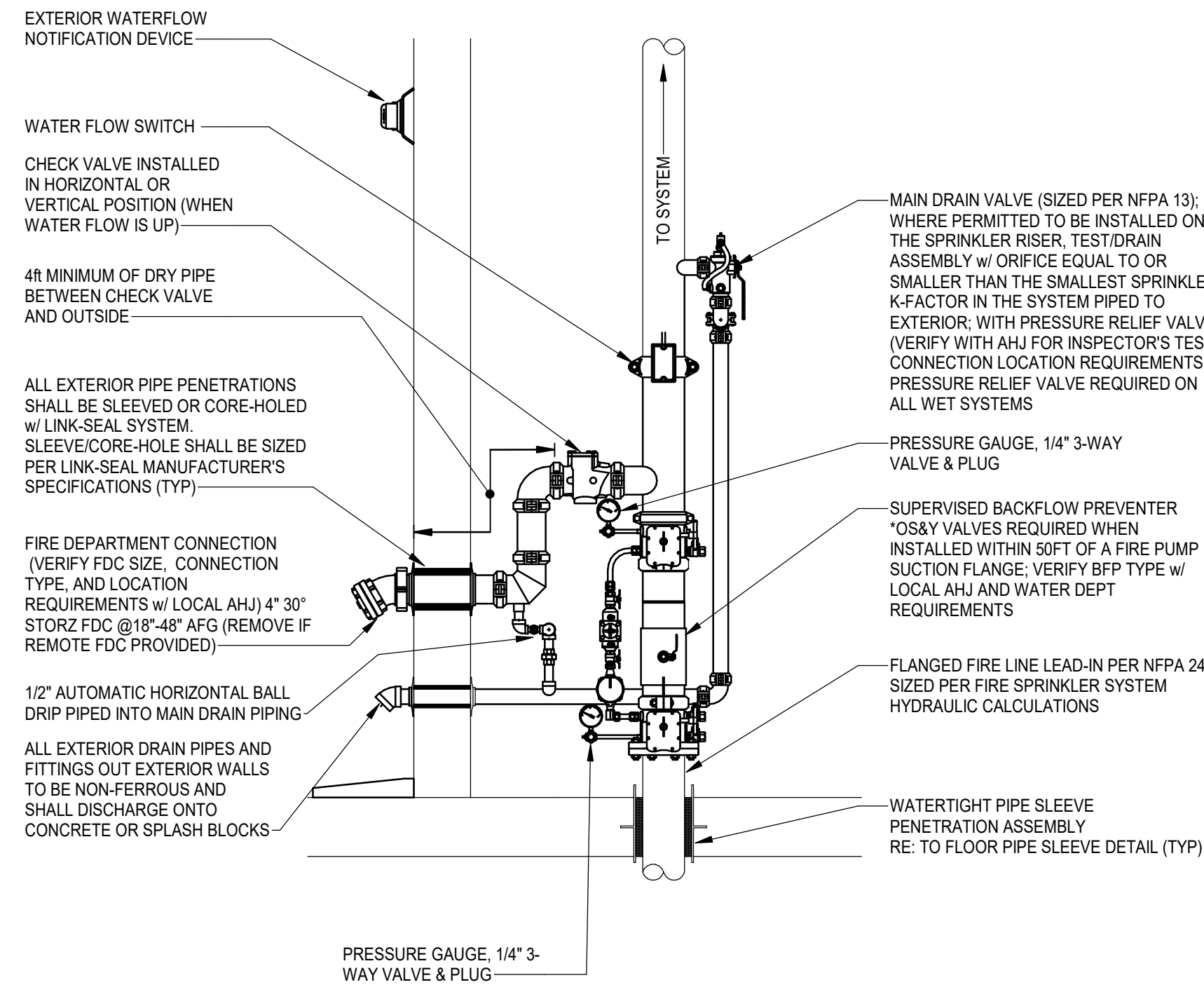
THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A NEW FIRE SPRINKLER SYSTEM UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, AND ALL MATERIAL REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL PREPARE ALL NEEDED DRAWINGS, ALL REQUIRED CALCULATIONS AND PE SEALS, AND HAVE APPROVAL OF ALL STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES, AS WELL AS MEETING ALL NFPA REQUIREMENTS. THE SPRINKLER SYSTEM SHALL BE TESTED UNDER PRESSURE BY FIRE PROTECTION CONTRACTOR, INSPECTED AND APPROVED BY LOCAL FIRE MARSHAL, PRIOR TO ACCEPTANCE BY OWNER. CONSULT WITH LANDLORD REPRESENTATIVE FOR EXACT EXISTING CONDITIONS OF FIRE PROTECTION SYSTEM, FOR LOCATION, CONNECTION POINT, SIZE, TYPE, ETCETERA.

WATER FLOW TEST INFORMATION

CONDUCTED BY: CITY OF LEES SUMMIT
DATE: 08/10/2023
STATIC PRESSURE: 101 PSI
WATER FLOW: 2300 GPM
RESIDUAL PRESSURE: 76 PSI
TEST HYDRANTS: 014-011, 014-13

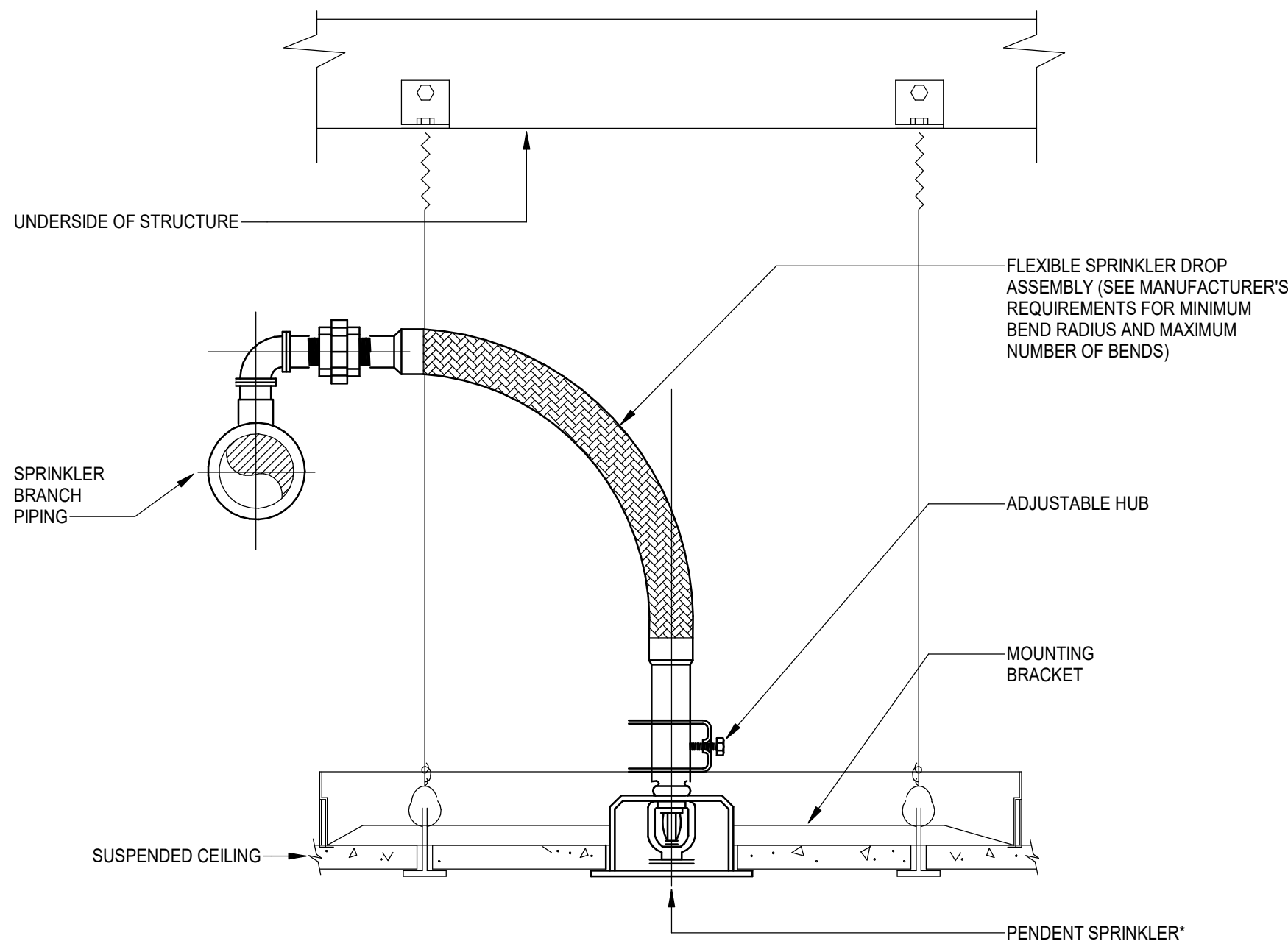
FIRE PROTECTION GENERAL NOTES

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY SHOWN IN THIS PROJECT. THE CONSTRUCTION DOCUMENTS NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES/FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER/VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNERS INSURER.
- THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.
- DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILING, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK, NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT. COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT, AND PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



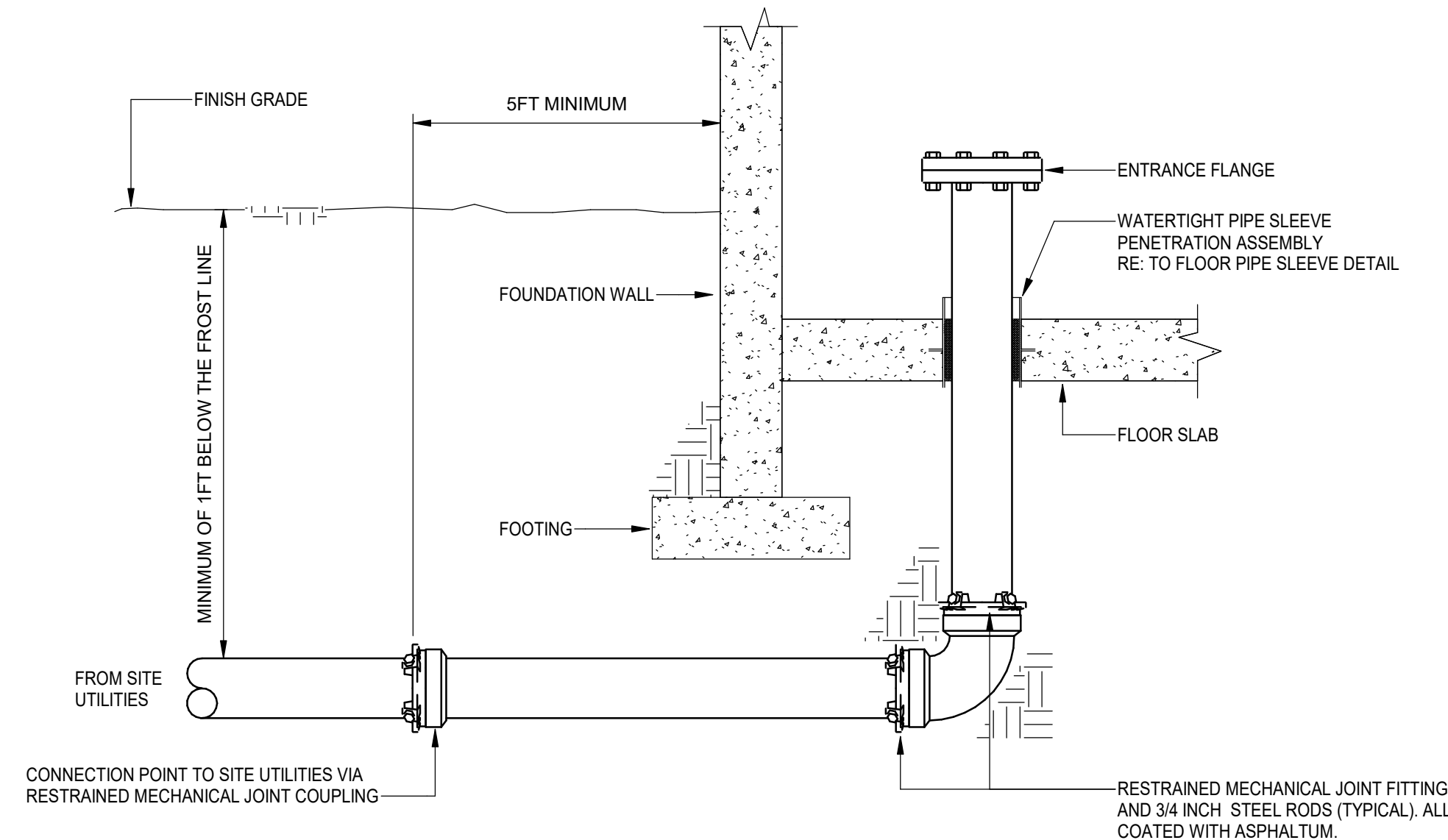
2 FIRE SPRINKLER RISER

NOT TO SCALE



3 FLEXIBLE HOSE SPRINKLER DROP

NOT TO SCALE



1 UNDERGROUND FIRE SERVICE ENTRY

NOT TO SCALE



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/10 REV:1
MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: REG
DRAWN BY: REG
CHECKED BY: KLC
APPROVED BY: TWD
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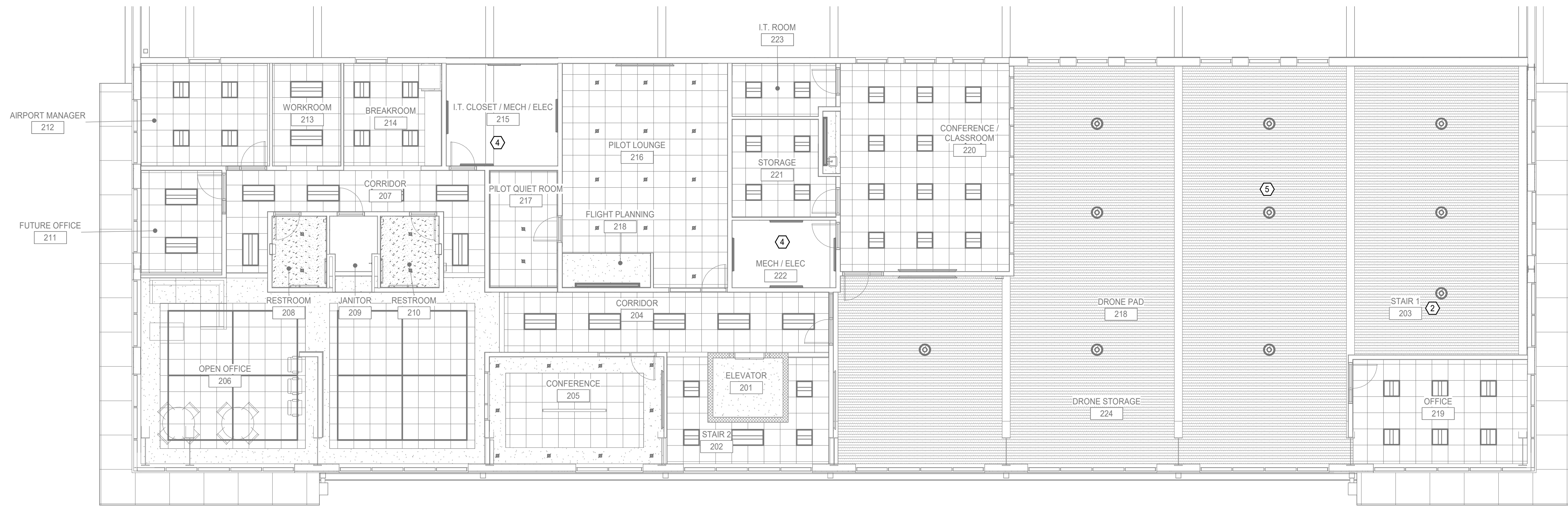
SHEET TITLE

FIRE PROTECTION
GENERAL NOTES AND
DETAILS

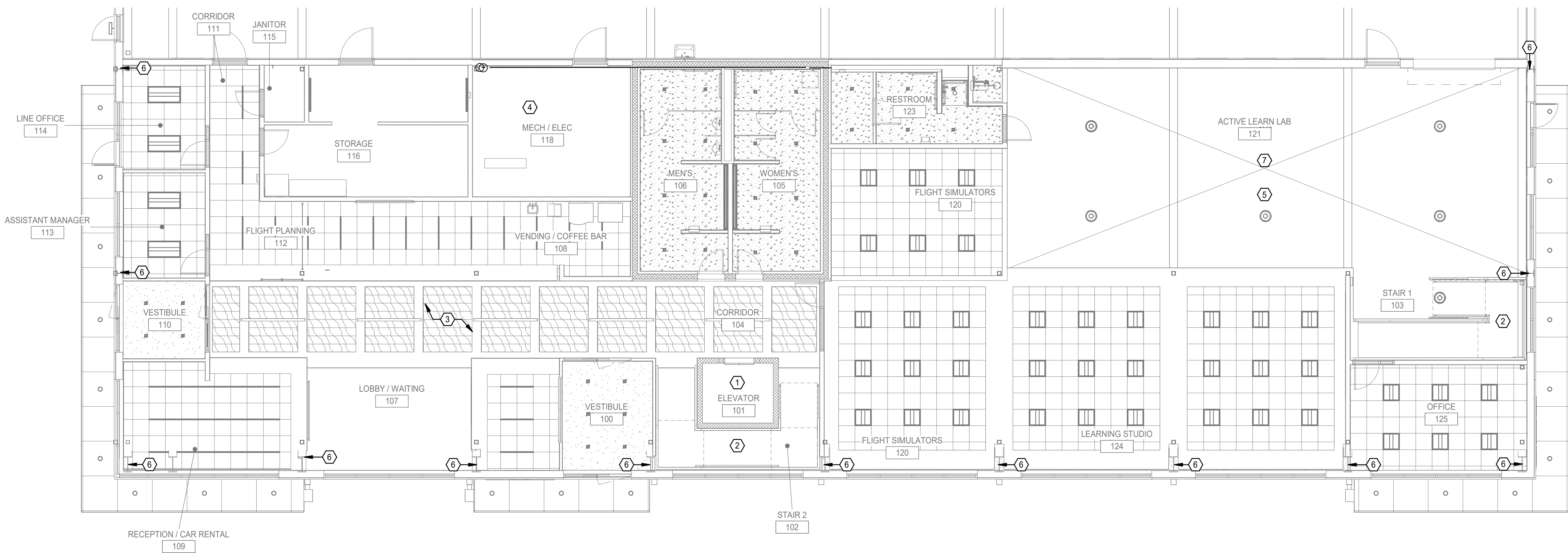
FP001

SHEET 110 OF 131

11/8/2023 9:42:58 AM



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



FIRE PROTECTION FIRST FLOOR PLAN 1 1/8" = 1'-0"

FIRE PROTECTION KEYNOTES

1. INSTALL SIDEWALL SPRINKLER WITHIN 2 FEET OF ELEVATOR HOISTWAY PIT FLOOR. PROVIDE SPRINKLER PROTECTION AT THE TOP OF THE ELEVATOR HOISTWAY.
2. PROVIDE SPRINKLER PROTECTION AT THE TOP OF STAIRWAY AND BENEATH THE LOWEST STAIRWAY LANDING.
3. PROVIDE CONCEALED SPRINKLERS WITH FACTORY MOUNTED COVER PLATE TO MATCH SURROUNDING SURFACES. FINAL COLOR SHALL BE COORDINATED WITH ARCHITECT.
4. DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
5. PROVIDE PROTECTIVE GUARDS FOR SPRINKLERS WITHIN AREA INDICATED.
6. PROVIDE SPRINKLER PROTECTION AT ALL STRUCTURAL COLUMNS TO CREATE 2 HOUR FIRE RESISTANCE RATING. PROTECTION SHALL BE NOT LESS THAN 0.25 GPM/SQFT OVER THE ENTIRE WETTED AREA OF THE COLUMN. COLUMN PROTECTION SHALL BE IN ACCORDANCE WITH NFPA 409.
7. AREA OPEN TO ABOVE.



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KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	REG
DRAWN BY:	REG
CHECKED BY:	KLC
APPROVED BY:	TWO
COPYRIGHT	2023

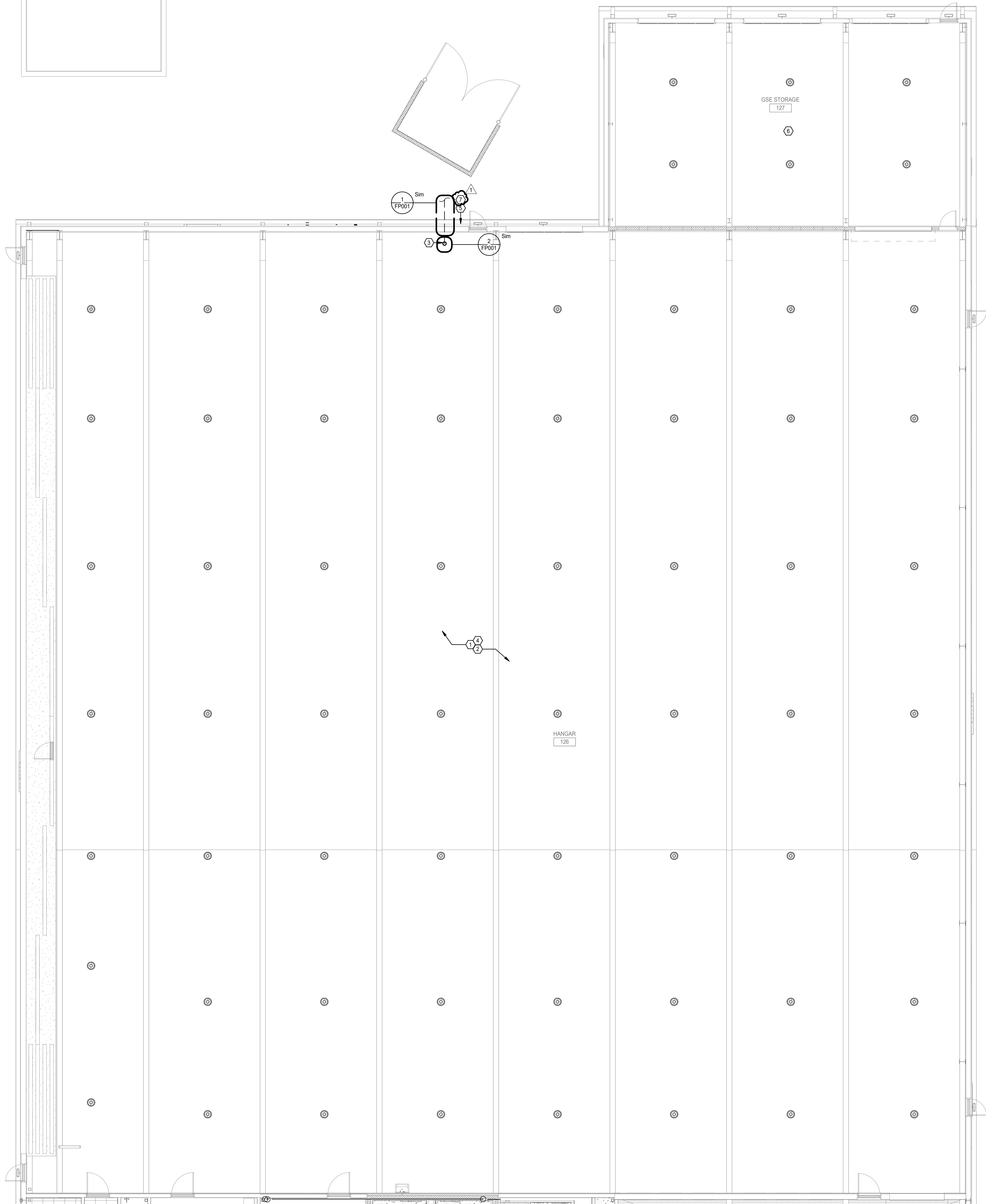
SHEET TITLE

FIRE PROTECTION
FLOOR PLANS

FP101

SHEET 111 OF 131

11/8/2023 9:43:01 AM



FIRE PROTECTION KEYNOTES

1. PROVIDE WET SYSTEM SPRINKLER PROTECTION THROUGHOUT HANGAR IN ACCORDANCE WITH NFPA 409. DESIGN DENSITY SHALL BE 0.17 GPM/SQFT OVER THE MOST DEMANDING 5000 SQFT.
2. FIRE SPRINKLERS SHALL BE SPACED AROUND HIGH-VOLUME LOW SPEED FANS IN ACCORDANCE WITH NFPA 13.
3. 8-INCH FIRE PROTECTION SERVICE ENTRANCE. REFER TO CIVIL FOR CONTINUATION.
4. PROVIDE SPRINKLER PROTECTION AT ALL STRUCTURAL COLUMNS TO CREATE 2 HOUR FIRE RESISTANCE RATING. PROTECTION SHALL BE NOT LESS THAN 0.25 GPM/SQFT OVER THE ENTIRE WETTED AREA OF THE COLUMN. COLUMN PROTECTION SHALL BE IN ACCORDANCE WITH NFPA 409.
5. PROVIDE FIRE DEPARTMENT CONNECTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONTRACTOR TO CONFIRM TYPE WITH LOCAL FIRE DEPARTMENT.
6. COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.
7. FDC SIGNAGE SHALL BE LOCATED AT HEIGHT ADEQUATE TO BE VISIBLE FROM DRIVE AND NOT OBSCURED BY DUMPSTER.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



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KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/1/10 REV. 1

MARK DATE DESCRIPTION

PROJECT NO: 022-04268

CAD DWG FILE: Lee's Summit - Hangar 2.rvt

DESIGNED BY: REG

DRAWN BY: REG

CHECKED BY: KLC

APPROVED BY: TWO

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SHEET TITLE

FIRE PROTECTION
HANGAR FLOOR PLAN

FP102

SHEET 112 OF 131

FIRE ALARM HANGAR PLAN

1/8" = 1'-0"

1



MECHANICAL SYMBOL LEGEND

GENERAL

EXISTING

DEMOLITION

NEW

NEW TO EXISTING

SHEET NOTE

REVISION DELTA

PIPE OR DUCT UP

PIPE OR DUCT DOWN

PIPE OR DUCT CAP

PIPE ANCHOR

PIPE GUIDE

PIPE ROLLER SUPPORT

FLOW DIRECTION ARROW

PIPE EXPANSION JOINT

FLEXIBLE CONNECTOR

CONCENTRIC REDUCER

ECCENTRIC REDUCER

CONCRETE

GRAVEL

VALVES

T & P RELIEF VALVE

ISOLATION VALVE

ISOLATION VALVE IN VERTICAL POSITION

CHECK VALVE

BALANCING VALVE

AUTOMATIC 2-WAY VALVE

AUTOMATIC 3-WAY VALVE

STRAINER

UNION

PRESSURE REDUCING & REGULATING VALVE

PRESSURE REGULATING VALVE

DIAPHRAGM VALVE

ANGLE VALVE

HVAC

CD-1
P4
200

CEILING DIFFUSER

DESIGNATION
REG-500
SIDE
CFM

LD-1
4-07
300

LINEAR DIFFUSER

DESIGNATION
DIFFUSER LENGTH
CFM

R-1
W4
200

SUPPLY REGISTER

DESIGNATION
SIZE
CFM

RA-1
12x12
200

RETURN AIR GRILLE

DESIGNATION
SIZE
CFM (OPTIONAL)

G-1
12x6
200

RETURN AIR GRILLE

DESIGNATION
SIZE
CFM (OPTIONAL)

X-1
12x6
200

EXHAUST AIR GRILLE

DESIGNATION
SIZE
CFM

T

THERMOSTAT

H

HUMIDISTAT

S

CARBON DIOXIDE SENSOR

12x6

RECTANGULAR DUCT (WxH)

12"x

ROUND DUCT (DIA)

12x6

OVAL DUCT (WxH)

FLEXIBLE DUCT

TURNING VANES

HCG

HARDWARE CLOTH GRILLE

VOLUME EXTRACTOR

SUPPLY AIR/OUTSIDE AIR UP AND DOWN

RETURN AIR UP AND DOWN

EXHAUST AIR UP AND DOWN

MANUAL VOLUME DAMPER

MOTORIZED DAMPER

BACKDRAFT DAMPER

FIRE DAMPER

SMOKE DAMPER

COMBINATION FIRE AND SMOKE DAMPER

SPECIALTY SYSTEMS

OX

OXYGEN PIPING

A

COMPRESSED AIR

CO2

CARBON DIOXIDE

N

NITROGEN

+ A

AIR OUTLET

VAC

VACUUM (AIR)

LV

LABORATORY VACUUM

MV

MEDICAL VACUUM

N2O

NITROUS OXIDE

LOX

LIQUID OXYGEN

LA

LABORATORY COMPRESSED AIR

MA

MEDICAL COMPRESSED AIR

RD

REFRIGERANT DISCHARGE

FOR

FUEL OIL RETURN

FOS

FUEL OIL SUCTION

FOV

FUEL OIL VENT

LPG

LIQUID PETROLEUM GAS

LR

LIQUID REFRIGERANT

SR

SUCTION REFRIGERANT

RL

PAIR REFRIGERANT LINES (SUCTION, LIQUID)

FIRE

F

FIRE PROTECTION PIPING

FIRE DEPARTMENT CONNECTION

DUCT

SMOKE DETECTOR AND RELAY

TS

TAMPER SWITCH

FS

FLOW SWITCH

SPRINKLER HEAD, PENDANT

SPRINKLER HEAD, SIDE WALL

ALARM VALVE, WET

ALARM VALVE, DRY

ALARM VALVE, DRY

POST INDICATOR VALVE

POST INDICATOR VALVE WITH TAMPER SWITCH

FM

BUILDING SPRINKLER FIRE MAIN

STEAM

BBD

BOILER BLOW DOWN

CD

STEAM CONDENSATE DRAIN ABOVE GRADE

CD

STEAM CONDENSATE DRAIN BELOW GRADE

HPC

HIGH PRESSURE CONDENSATE

HPS

HIGH PRESSURE STEAM

STEAM TRAP

LPC

LOW PRESSURE CONDENSATE

LPS

LOW PRESSURE STEAM

MPC

MEDIUM PRESSURE CONDENSATE

MPS

MEDIUM PRESSURE STEAM

HYDRONIC

CHWR

CHILLED WATER RETURN

CHWS

CHILLED WATER SUPPLY

MU

MAKE-UP WATER

HHWR

HEATING WATER RETURN

HHWS

HEATING WATER SUPPLY

HCWR

HOTCHILLED WATER RETURN

HCWS

HOTCHILLED WATER SUPPLY

HPR

HEAT PUMP RETURN

HPS

HEAT PUMP SUPPLY

CTR

COOLING TOWER RETURN

CTS

COOLING TOWER SUPPLY

CR

CONDENSER WATER RETURN

CS

CONDENSER WATER SUPPLY

ERR

ENERGY RECOVERY RETURN

ERS

ENERGY RECOVERY SUPPLY

AUTOMATIC AIR VENT

MANUAL AIR VENT

GENERAL NOTES

- A. CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENTS. THE CONTRACTOR SHALL BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- B. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- C. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT AND MATERIALS. OBTAIN ALL REQUIREMENTS OF THE CITY AND THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE RISKS, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
- D. REFER TO STRUCTURAL DRAWINGS TO COORDINATE LOCATIONS OF ALL DUCTWORK AND PIPING PENETRATIONS.
- E. DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL INFORMATION. REFER TO MECHANICAL STANDARD INSTALLATION REQUIREMENTS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS.
- F. USE OF COMBUSTIBLE MATERIAL IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 10. WHEN TESTED IN ACCORDANCE WITH ASTM E 84, ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.
- G. DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
- H. PROVIDE DUCT TRANSITIONS AT CONNECTIONS TO ALL DUCTED MECHANICAL EQUIPMENT.
- I. COORDINATE ALL CEILING INSTALLED EQUIPMENT AND DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
- J. INSTALL BALANCE DAMPERS IN ALL DUCT BRANCHES TO INDIVIDUAL AIR DISTRIBUTION DEVICES. INSTALL AS CLOSE AS POSSIBLE TO BRANCH DUCT TAKING OFF LARGER DUCT UNLESS SHOWN OTHERWISE ON THE FLOOR PLANS. DAMPERS IN AIR DISTRIBUTION DEVICES SHALL NOT BE USED TO BALANCE SYSTEMS.
- K. MAINTAIN 3'-0" CLEARANCE IN FRONT OF ELECTRICAL PANELS AND EQUIPMENT. DO NOT ROUTE ANY PIPING OR DUCTWORK OVER ELECTRICAL EQUIPMENT.
- L. BRANCH DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER TAKING OFF. UNLESS NOTED OTHERWISE, MAXIMUM LENGTH OF FLEXIBLE DUCT ROUTING TO BE 5'-0" (NO EXCEPTIONS).
- M. TEMPERATURE SENSORS/THERMOSTATS/CO₂ SENSORS SHALL BE LOCATED ON WALL NEAR LOCATIONS SHOWN. LOCATE ON WALL WITH CENTER AT 3'-0" A.F.F. TO CENTER OF T-STAT (MATCHING LIGHT SWITCH HEIGHT).
- N. ALL ROOM-MAOUNTED EQUIPMENT SHALL BE LOCATED MINIMUM 10'-0" FROM RAOGE UNLESS MINIMUM 42" GUARD OR PARAPET IS NOTED ON DRAWINGS.
- O. DEFINITIONS:
 1. FURNISH - CONTRACTOR SHALL FURNISH AND INSTALL
 2. FURNISH - CONTRACTOR SHALL OBTAIN FOR OTHERS TO INSTALL
 3. INSTALL - CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND MATERIALS TO INSTALL EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE



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LEE'S SUMMIT MUNICIPAL AIRPORT

LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

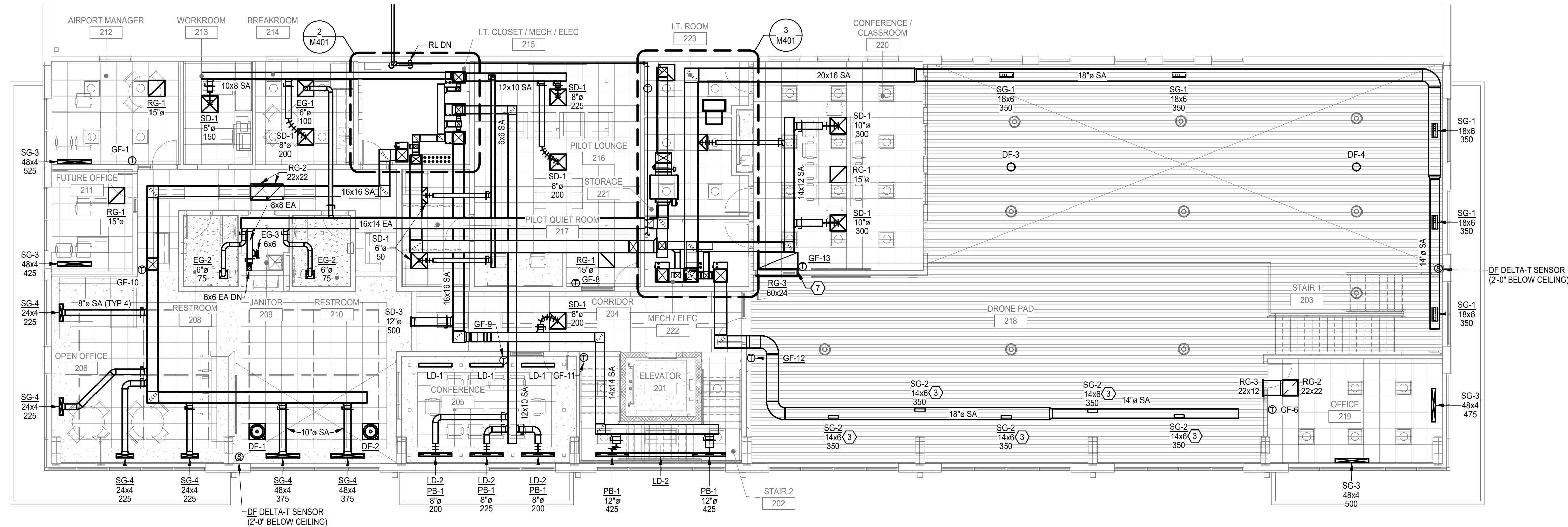
MARK	DATE	DESCRIPTION
PROJECT NO: 022-04268		
CAD DWG FILE: Lee's Summit - Hangar 2.rvt		
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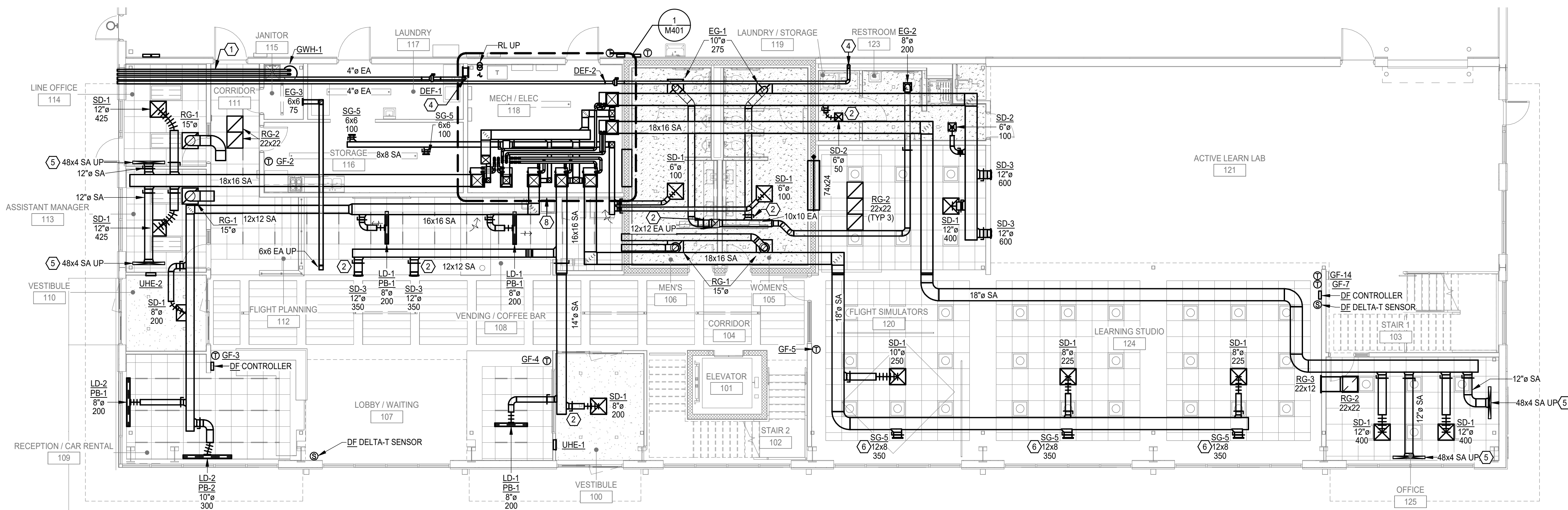
GENERAL MECHANICAL INFORMATION

M001

11/8/2023 9:27:08 AM



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



MECHANICAL FIRST FLOOR PLAN 1 1/8" = 1'-0"

MECHANICAL KEYNOTES

- 1 PROVIDE AL29-4C VENT AND INTAKE PIPING TO EXTERIOR WALL. TERMINATE WITH CONCENTRIC VENT KIT. SIZE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2 ALL DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE REMOTE, CABLE-OPERATED DAMPERS. METROPOLITAN AIR TECHNOLOGIES RT-200-250 OR EQUAL. ROUTE DAMPER CABLE ACTUATOR TO BACKPAN OF AIR DEVICE.
- 3 INSTALL AIR DEVICE AT 45° BELOW HORIZONTAL.
- 4 4"Ø DRYER VENT TO WALL VENT CAP. DYER VENT SHALL BE SEALED AIRWATER TIGHT. PROVIDE RECESSED ALUMINUM DRYER CONNECTION BOX IN WALL "DRYER BOX" OR EQUAL.
- 5 DUCT UP TO FLOOR MOUNTED GRILLE.
- 6 ANGLE AIR DEVICE DOWN 45° TO WASH WINDOWS.
- 7 RETURN AIR BOOT WITH 1" ACOUSTICAL LINER.
- 8 WALL GYPSUM BOARD SHALL TERMINATE 6" ABOVE CEILING FOR RETURN AIR PATH BACK TO FURNACES.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
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DRAWN BY:	NPB
CHECKED BY:	KLC
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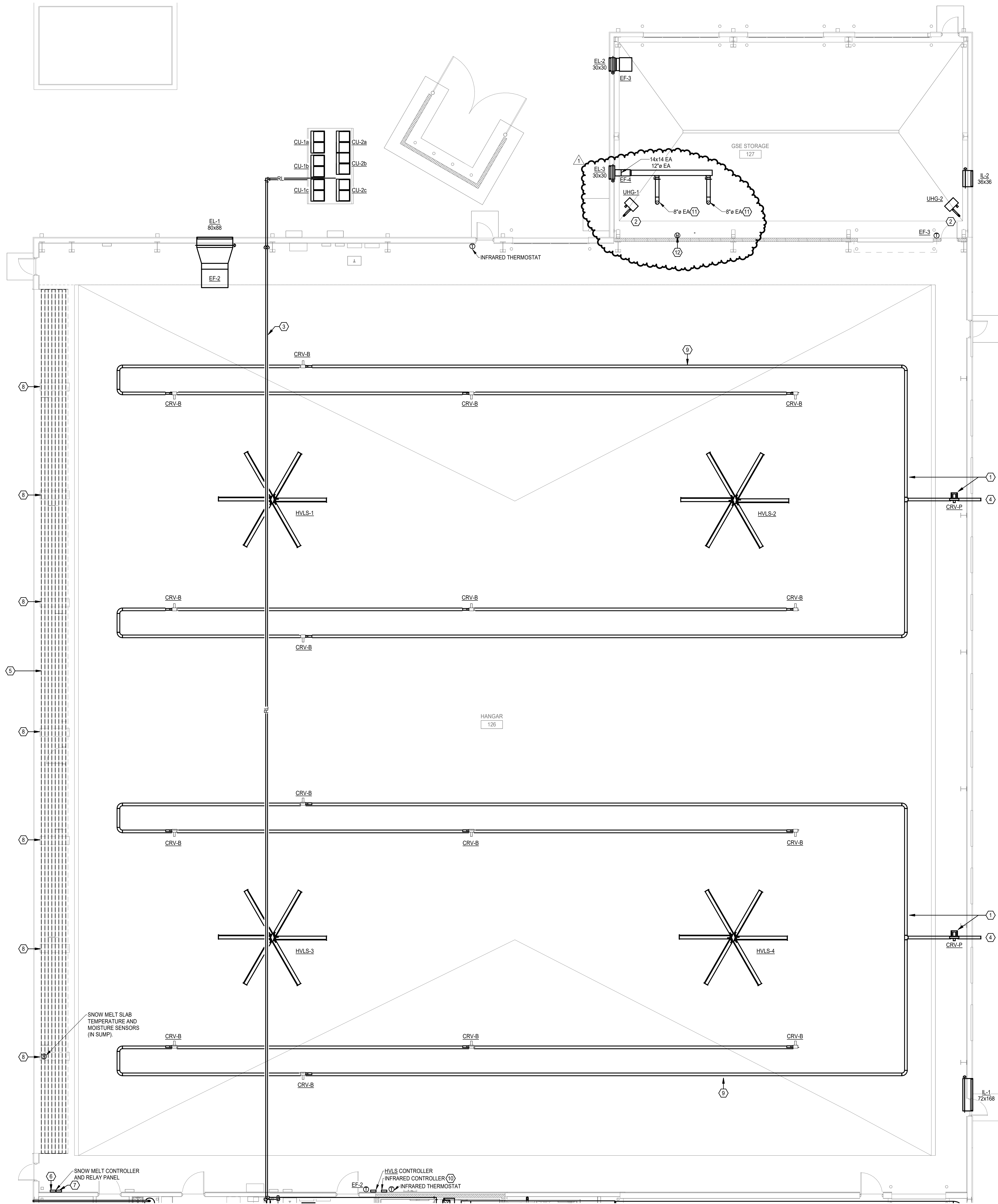
SHEET TITLE

MECHANICAL FLOOR
PLANS

M101

SHEET 114 OF 131

11/8/2023 9:27:08 AM



MECHANICAL KEYNOTES

1. PROVIDE GAS-FIRED INFRARED HEATING SYSTEM IN HANGAR. BASIS OF DESIGN IS ROBERTS-GORDON CORATVAC. SYSTEM SHALL CONSIST OF (8) 8-10 BURNERS (CRV-B) (120W/1PI, 0.3A) FOR A TOTAL CAPACITY OF 300 MBH, 2 HP VACUUM PUMP (CRV-P) (480V/3PH), AND STAINLESS STEEL REFLECTORS ON ALL RADIANT PIPE AND TAILPIPE.
2. ROUTE UNIT HEATER FLUE PIPING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
3. ROUTE ALL REFRIGERANT PIPING IN HANGAR AT 40'-0" AFF.
4. PROVIDE 6" Ø VENT PIPING TO EXTERIOR WALL. TERMINATE WITH BIRD SCREEN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE MINERAL INSULATED CABLE - ELECTRIC SNOW MELT SYSTEM UNDERNEATH DOOR RAILINGS. PROVIDE 8 TOTAL CABLES SPACED 3" FROM THE EDGE OF EACH RAIL AND AT A DEPTH OF 2" BELOW SLAB. CABLES SHALL BE SIZED AT 22 WFT AND SHALL EXTEND FULL LENGTH OF THE DOOR RAIL SYSTEM (100'). PROVIDE COLD LEADS AS NECESSARY FROM RELAY PANEL TO BEGINNING OF RAIL SYSTEM.
6. PROVIDE SNOW MELT CONTROLLER WITH SLAB TEMPERATURE SENSOR AND MANUAL OPERATOR OVERRIDE SWITCH.
7. PROVIDE SNOW MELT RELAY PANEL WITH MINIMUM 8 SEPARATE CIRCUITS.
8. BEND SNOW MELT CABLING DOWN AT EACH SUMP PIT SO THAT CABLING IS INSTALLED 2" BELOW CONCRETE SURFACE AT ALL TIMES. DO NOT ROUTE CABLING OPEN AIR THROUGH SUMP PITS.
9. INFRARED TUBING INSTALLED AT 34'-0" AFF. HEAT TREATED ALUMINIZED STEEL TUBING.
10. PROVIDE MULTIBURNER CONTROL PANEL TO CONTROL BOTH RADIANT AND MANUAL OPERATOR OVERRIDE SWITCH.
11. 8" Ø DOWN TO 36" AFF FOR BATTERY EXHAUST. FURNISH WITH 1/2"x1/2" WIRE MESH SCREEN. COORDINATE EXACT HEIGHT AND LOCATION OF BATTERIES WITH OWNER.
12. HYDROGEN GAS DETECTOR/ALARM AND RELAY. DETECTOR SHALL INITIATE WARNING LIGHT EXHAUST FAN AT 1% HYDROGEN CONCENTRATION. DETECTOR SHALL INITIATE AUDIBLE/VISUAL ALARM AT 2% HYDROGEN CONCENTRATION. EXHAUST FAN SHALL CONTINUE TO RUN.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE REV. DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: NPB
DRAWN BY: NPB
CHECKED BY: KLC
APPROVED BY: TWO
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SHEET TITLE

MECHANICAL
HANGAR FLOOR PLAN

M102

SHEET 115 OF 131

MECHANICAL HANGAR FLOOR PLAN

1/8" = 1'-0"



11/8/2023 9:27:12 AM

MECHANICAL KEYNOTES

- 1 PROVIDE AL29-4C VENT AND INTAKE PIPING TO ROOF. TERMINATE WITH CONCENTRIC VENT KIT. SIZE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2 DUCT UP TO ROOF HOOD (ON ROOF). LOREN COOK TR OR EQUAL. PROVIDE WITH 12" ROOF CURB.
- 3 DO NOT ROUTE DUCTWORK OR PIPING OVER ELECTRICAL PANELS OR EQUIPMENT. MAINTAIN WORKING CLEARANCES AS DEFINED BY THE ELECTRICAL CODE.



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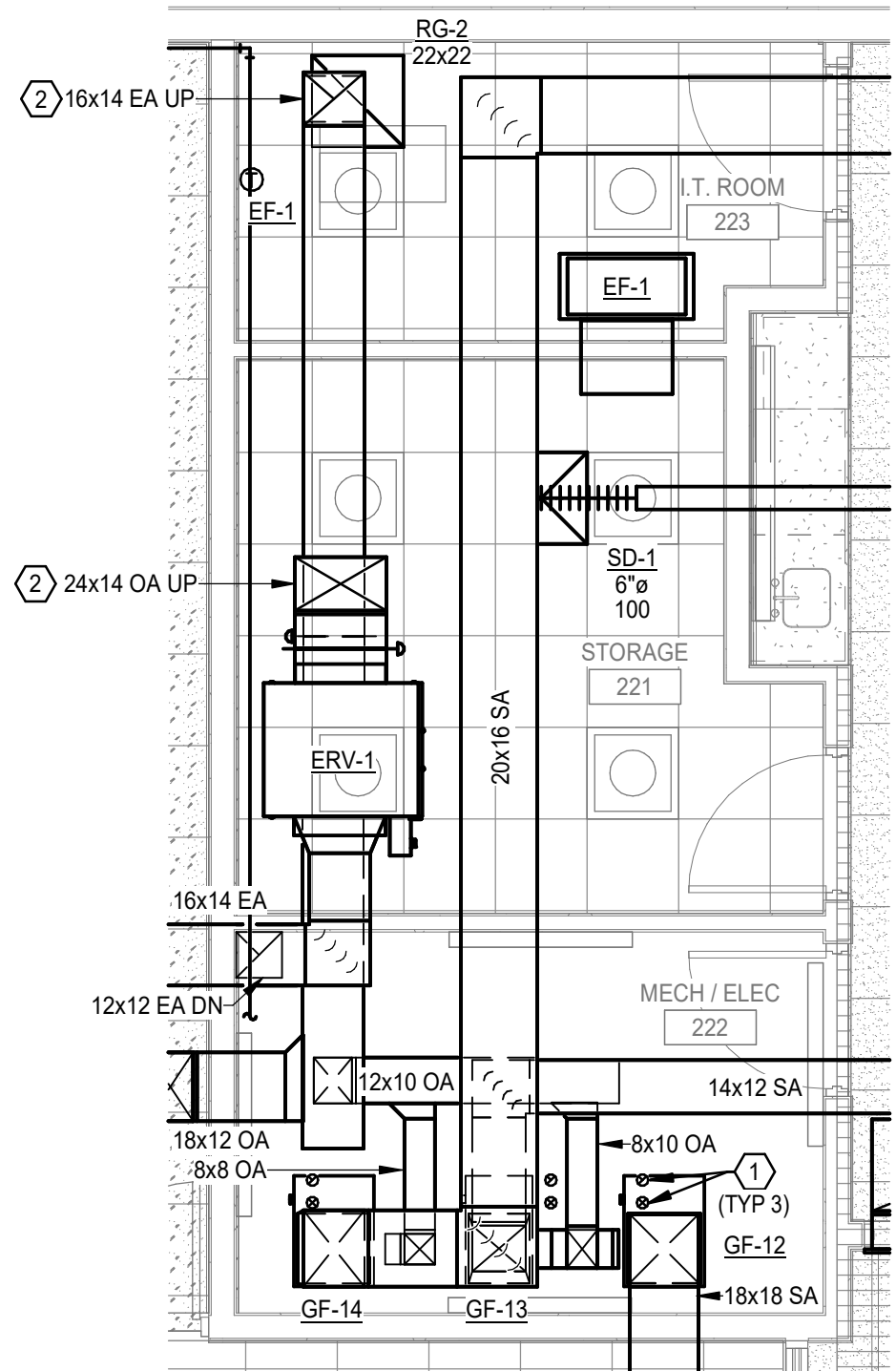
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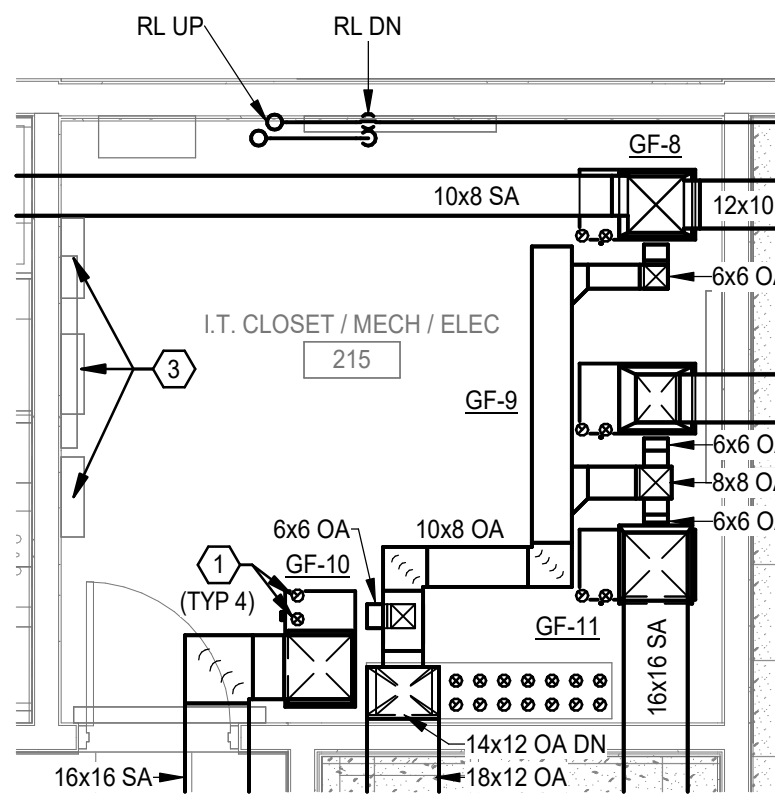
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LEE'S SUMMIT MUNICIPAL AIRPORT
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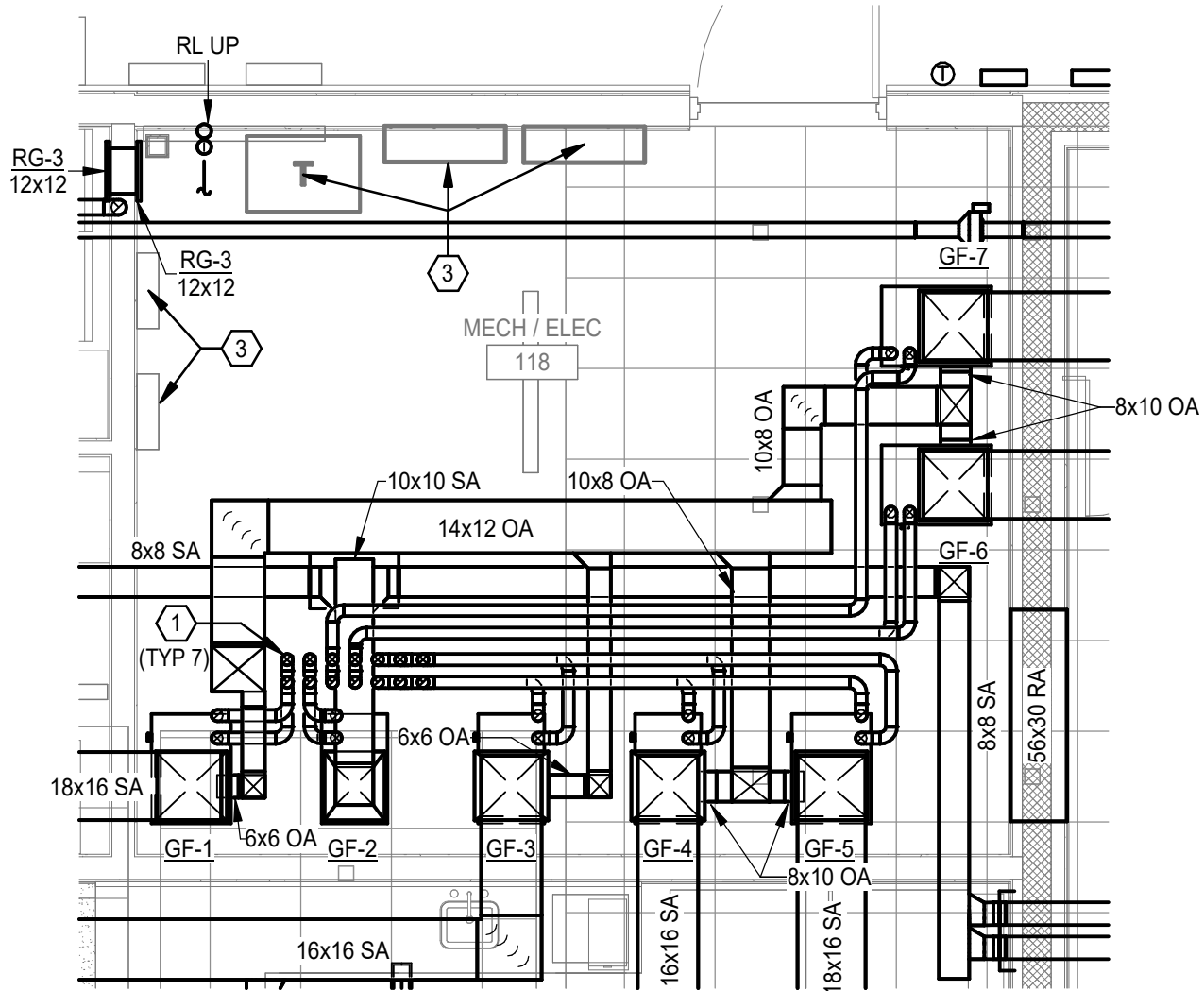
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



ENLARGED IT / STORAGE / MECH / ELEC 3
1/4" = 1'-0"



ENLARGED IT CLOSET / MECH / ELEC 2
1/4" = 1'-0"



ENLARGED MECH / ELEC 1
1/4" = 1'-0"



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

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SHEET TITLE

ENLARGED PLANS

M401

SHEET 116 OF 131

SEQUENCE OF OPERATIONS
GENERAL ORGANIZATION

THE SEQUENCE OF OPERATIONS IS ORGANIZED INTO THE FOLLOWING MAIN CATEGORIES: OPERATING MODES, CONTROL SETPOINT RESETS, SAFETIES, OVERRIDES, AND INTERLOCKS, AND COMPONENT CONTROL LOOPS. THE OPERATING MODES DESCRIBE THE CRITERIA THAT EITHER ENABLE OR DISABLE THE VARIOUS MODES OF OPERATION. IF A MODE OF OPERATION IS NOT LISTED WITHIN A COMPONENT CONTROL LOOP SECTION, THEN THAT MODE OF OPERATION HAS NO DIRECT INFLUENCE ON THE OPERATION OF THE COMPONENT. THE CONTROL SETPOINT RESET SECTION DESCRIBES THE LOGIC AND REFERENCE VARIABLES THAT WILL BE USED TO RESET CONTROL SETPOINTS TO A NEW VALUE WITHIN ITS RESET RANGE. THE SAFETIES, OVERRIDES, AND INTERLOCKS SECTION OUTLINES SAFETIES AND INTERLOCKS WHICH TAKE PRECEDENCE OVER ALL OTHER CONTROL STRATEGIES OUTLINED IN THIS DOCUMENT. THE CONTROL RESPONSES OF EACH COMPONENT FOR THE VARIOUS MODES OF OPERATION ARE DESCRIBED IN THE COMPONENT CONTROL LOOP SECTIONS.

THE SEQUENCE OF OPERATIONS, THE POINTS LIST AND CONTROL DIAGRAMS SHALL BE USED TO PROVIDE A COMPLETE DESCRIPTION OF THE CONTROL INTENT FOR THE CONTROLLED EQUIPMENT. INDIVIDUAL SETPOINT VALUES, RESET RANGES, AND ALARM ACTION LEVELS ARE LISTED IN THE POINTS LIST. COMPONENTS AND CONTROL SENSOR LOCATIONS ARE GRAPHICALLY DEPICTED ON THE CONTROL DIAGRAM.

SEQUENCE OF OPERATIONS
ENERGY RECOVERY VENTILATOR
GENERAL DESCRIPTION

THE ENERGY RECOVERY VENTILATOR CONSISTS OF SUPPLY FAN, EXHAUST FAN, FIXED PLATE ENTHALPY HEAT EXCHANGER, MOTORIZED ISOLATION DAMPERS, AND FILTERS TO PROVIDE VENTILATION AIR FOR THE SPACES SHOWN ON THE DRAWINGS.

OPERATING MODES

UNOCCUPIED MODE

THE ERV SHALL BE IN UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.

OCCUPIED MODE

THE ERV SHALL BE IN OCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.

CONTROL SETPOINT RESETS

NOT USED.

SAFETIES AND INTERLOCKS

ISOLATION DAMPER INTERLOCK

MOTORIZED ISOLATION DAMPER SHALL BE INTERLOCKED WITH ASSOCIATED FAN. DAMPER SHALL OPEN WHEN FAN IS ON AND CLOSE WHEN FAN IS OFF.

COMPONENT CONTROL LOOPS

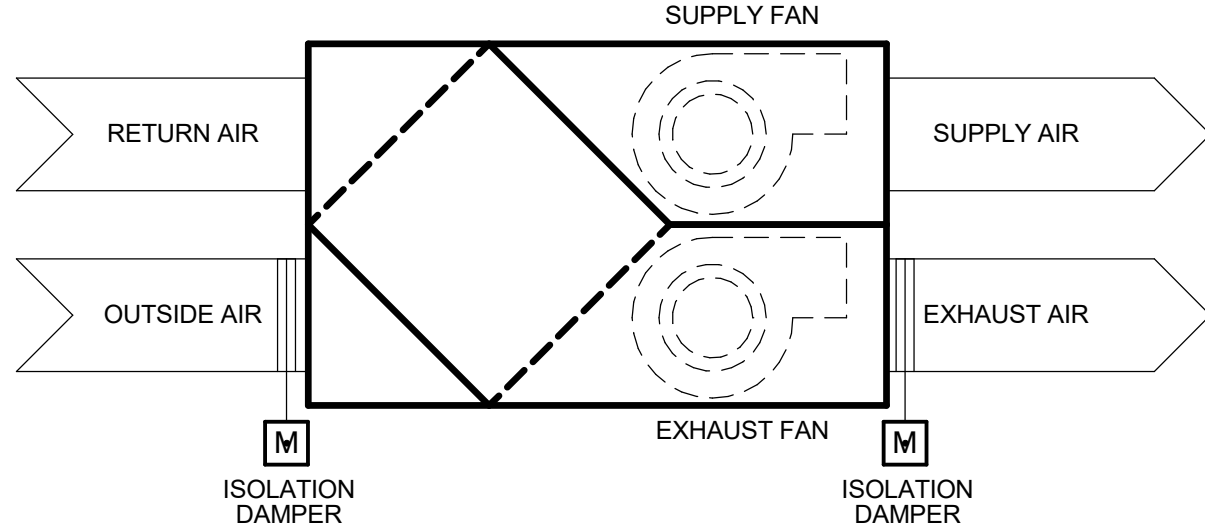
EXHAUST/SUPPLY FAN

WHEN IN UNOCCUPIED MODE:

THE FANS SHALL BE OFF.

WHEN IN OCCUPIED MODE:

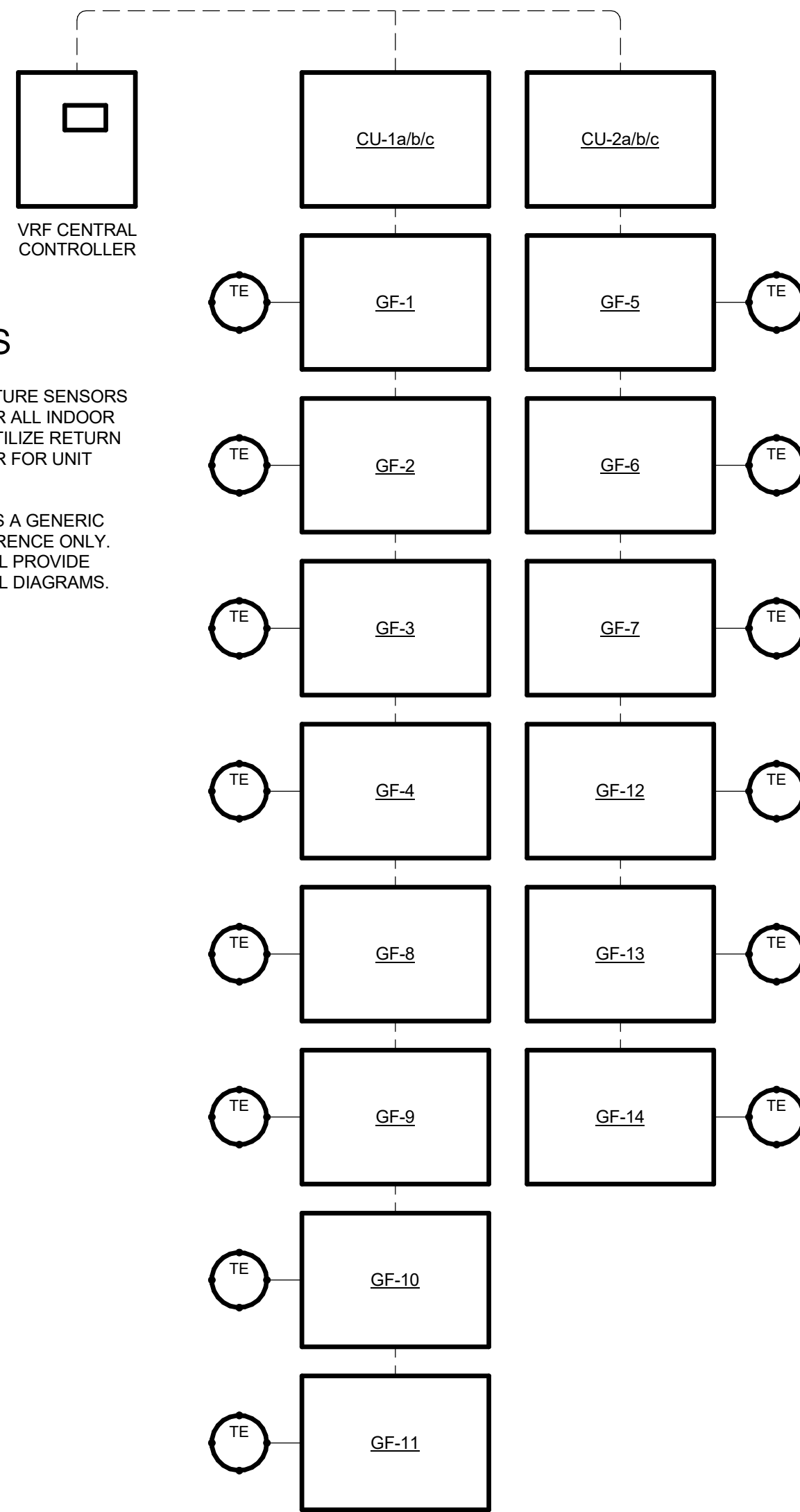
THE FANS SHALL BE ON.



ENERGY RECOVERY VENTILATOR P&ID

GENERAL NOTES

1. PROVIDE WIRED TEMPERATURE SENSORS WITH LOCAL OVERRIDE FOR ALL INDOOR FAN COIL UNITS. DO NOT UTILIZE RETURN AIR TEMPERATURE SENSOR FOR UNIT CONTROL.
2. THIS SCHEMATIC PROVIDES A GENERIC WIRING LAYOUT FOR REFERENCE ONLY. VRF MANUFACTURER SHALL PROVIDE SYSTEM SPECIFIC CONTROL DIAGRAMS.



VRF SYSTEM NETWORK

SEQUENCE OF OPERATIONS
VARIABLE REFRIGERANT FLOW (VRF) SYSTEM

GENERAL DESCRIPTION

THE VARIABLE REFRIGERANT FLOW (VRF) SYSTEM CONSISTS OF INDOOR FAN COIL UNITS (GF'S) AND OUTDOOR CONDENSING UNITS (CU'S) THAT PROVIDE HEATING AND COOLING FOR THE CONDITIONED SPACE AS SHOWN ON THE DRAWINGS. EACH CU IS CAPABLE OF SERVING MULTIPLE INDOOR UNITS WITH INDEPENDENT TEMPERATURE CONTROL FOR EACH GF.

OPERATING MODES

THE UNIT SHALL BE IN UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.

OCCUPIED MODE

THE UNIT SHALL BE IN OCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULES.

COOLING MODE

THE VRF SYSTEM SHALL BE IN COOLING MODE BASED ON THE GREATEST CALL FOR COOLING FROM THE ZONE LEVEL INDOOR UNITS, SUBJECT TO THE VRF SYSTEM CONTROLLER.

HEATING MODE

THE VRF SYSTEM SHALL BE IN HEATING MODE BASED ON THE GREATEST CALL FOR HEATING FROM THE ZONE LEVEL INDOOR UNITS, SUBJECT TO THE VRF SYSTEM CONTROLLER. VRF SYSTEMS SERVING AHU COILS SHALL NOT ENTER HEATING MODE.

CONTROL SETPOINT RESETS

NOT USED.

SAFETIES AND INTERLOCKS

SMOKE DETECTOR INTERLOCK

EACH OF SHALL BE HARDWIRED INTERLOCKED WITH A RETURN A SMOKE DETECTOR TO SHUTDOWN UNIT UPON DETECTION OF SMOKE.

COMPONENT CONTROL LOOPS

OUTDOOR CONDENSING UNIT

WHEN IN ALL MODES:

THE CONDENSING UNIT SHALL OPERATE SUBJECT TO THE INTEGRATED FACTORY DIGITAL CONTROLS (DDC) SYSTEM.

INDOOR FAN COIL UNIT

WHEN IN ALL MODES:

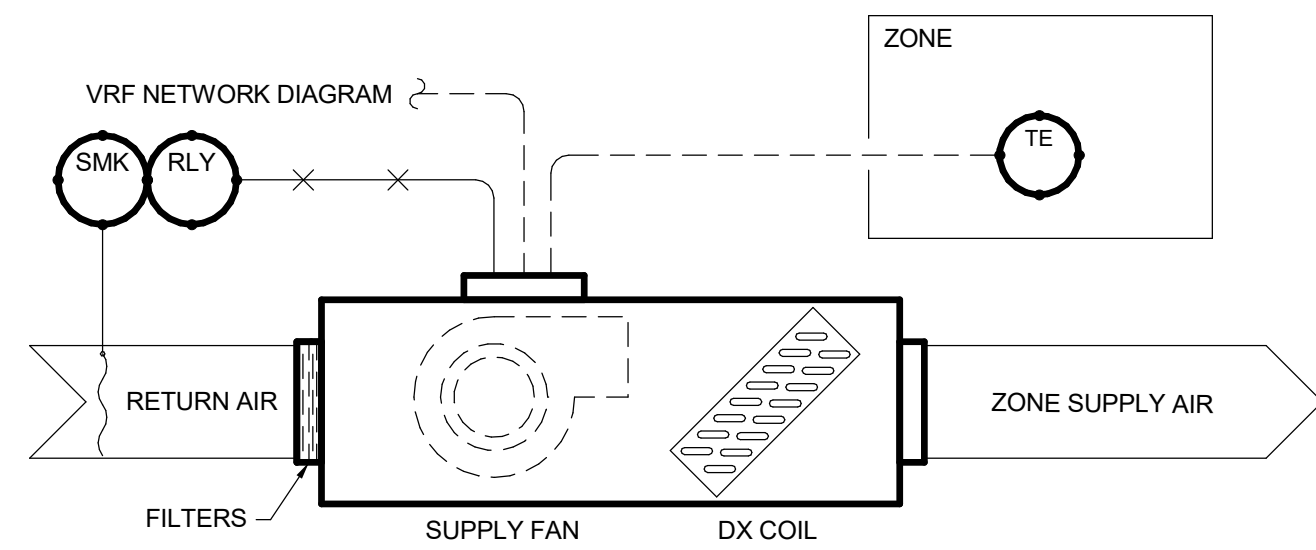
THE FAN COIL UNIT SHALL OPERATE SUBJECT TO THE INTEGRATED FACTORY DIGITAL CONTROLS (DDC) SYSTEM.

FILTER MONITORING

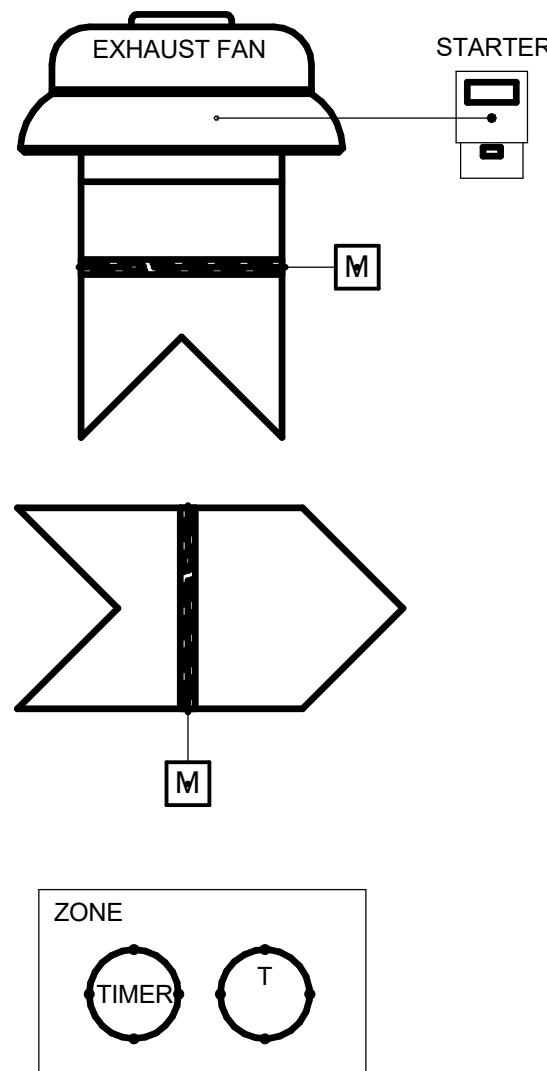
THE UNIT FILTERS SHALL BE MONITORED FOR PREVENTATIVE MAINTENANCE.

WHEN IN ALL MODES:

THE CONTROLLER SHALL MONITOR THE FAN RUNTIME TO PROVIDE MAINTENANCE REMINDER AT 50% OF FILTER ELAPSED TIME (1100 HOURS) AND AN ALARM AT 100% ELAPSED TIME (2200 HOURS).



VRF SYSTEM P&ID



EXHAUST FAN P&ID

SEQUENCE OF OPERATIONS
EXHAUST FAN (THERMOSTAT AND 8-HOUR
TWIST TIMER)

GENERAL DESCRIPTION

FAN QUANTITY AND SERVICE IS SCHEDULED IN THE FAN SCHEDULE ON THE DRAWINGS. FANS SHALL BE PROVIDED WITH ZONE THERMOSTAT AND MANUAL TWIST TIMER.

OPERATING MODES

EXHAUST FAN DISABLED MODE

FAN SHALL BE IN DISABLED MODE UNLESS ENABLED AS INDICATED BELOW.

EXHAUST FAN ENABLED MODE

THERMOSTAT: FAN SHALL BE IN ENABLED MODE SUBJECT TO SIGNAL FROM WALL-MOUNTED THERMOSTAT.

OR

TWIST TIMER: FAN SHALL BE IN ENABLE MODE SUBJECT TO SIGNAL FROM WALL-MOUNTED TWIST TIMER. (EF-2 ONLY)

CONTROL SETPOINT RESETS

NOT USED.

SAFETIES AND INTERLOCKS

ISOLATION DAMPER INTERLOCK

THE MOTORIZED ISOLATION DAMPER(S) SHALL BE INTERLOCKED WITH THE ASSOCIATED FAN. DAMPER(S) SHALL OPEN PRIOR TO FAN START SIGNAL. DAMPER(S) SHALL CLOSE AFTER FAN IS COMMANDED OFF.

COMPONENT CONTROL LOOPS

EXHAUST FAN

WHEN IN EXHAUST FAN DISABLED MODE:

THE EXHAUST FAN IS OFF.

WHEN IN EXHAUST FAN ENABLED MODE:

THE EXHAUST FAN IS ON.

SEQUENCE OF OPERATIONS
IN-FLOOR RADIANT HEAT

GENERAL DESCRIPTION

THE IN-FLOOR RADIANT HEAT SYSTEM CONSISTS OF ELECTRIC HEAT CABLES INSTALLED IN THE FLOOR SLAB WITH SLAB TEMPERATURE AND MOISTURE SENSORS TO PROVIDE SNOW MELT AT THE DOOR RAILS.

OPERATING MODES

HEATING MODE

THE SYSTEM SHALL BE IN HEATING MODE WHEN THE SLAB TEMPERATURE IS LESS THAN 40°F (ADJ.) AND MOISTURE IS DETECTED.

CONTROL SETPOINT RESETS

NOT USED.

SAFETIES AND INTERLOCKS

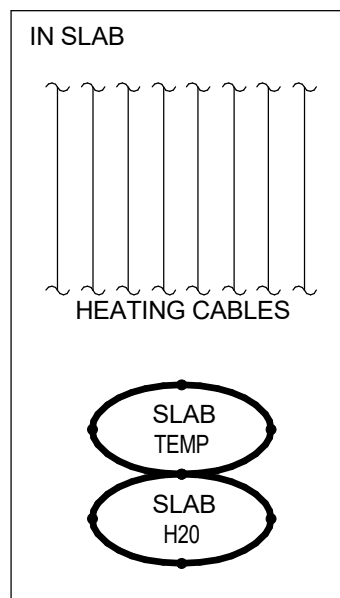
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COMPONENT CONTROL LOOPS

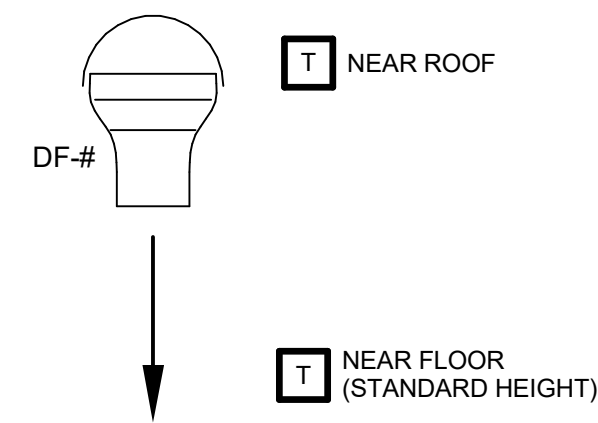
HEATING CABLE - ELECTRIC

WHEN IN HEATING MODE:

THE HEATING CABLES SHALL BE ON.



IN-FLOOR RADIANT HEAT P&ID



DESTRAT FAN P&ID

SEQUENCE OF OPERATIONS

DESTRATIFICATION FAN

DF-1, DF-2, DF-3, DF-4

GENERAL DESCRIPTION

DESTRAT FANS WILL BE PROVIDED WITH A DELTA-T CONTROL SYSTEM WITH LOW AND HIGH TEMPERATURE SENSORS TO OPERATE FANS BASED ON TEMPERATURE DIFFERENCE.

OPERATING MODES

DESTRATIFICATION FAN DISABLED MODE

FAN SHALL BE IN DISABLED MODE WHEN THE TEMPERATURE DIFFERENCE IS LESS THAN 5°F (ADJ.).

DESTRATIFICATION FAN ENABLED MODE

FAN SHALL BE IN ENABLED MODE WHEN THE TEMPERATURE DIFFERENCE IS GREATER THAN 5°F (ADJ.).

CONTROL SETPOINT RESETS

NOT USED.

SAFETIES AND INTERLOCKS

NOT USED.

COMPONENT CONTROL LOOPS

DESTRATIFICATION FAN

WHEN IN DESTRATIFICATION FAN DISABLED MODE:

THE DESTRATIFICATION FAN IS OFF.

WHEN IN DESTRATIFICATION FAN ENABLED MODE:

THE DESTRATIFICATION FAN IS ON.



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LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 022-04268

CAD DWG FILE: Lee's Summit - Hangar 2.rvt

DESIGNED BY: NPB

DRAWN BY: NPB

CHECKED BY: KLC

APPROVED BY: TWD

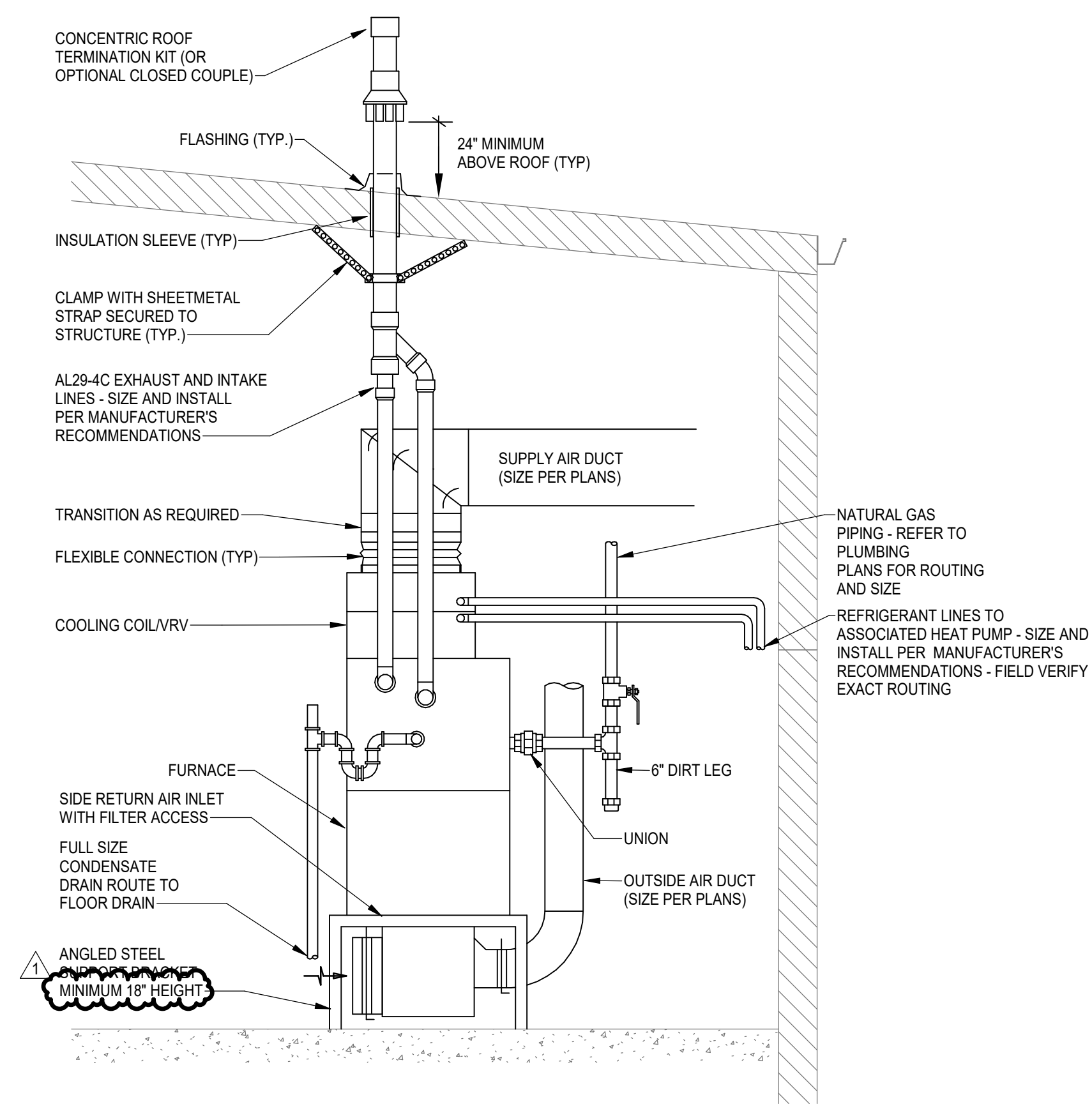
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SHEET TITLE

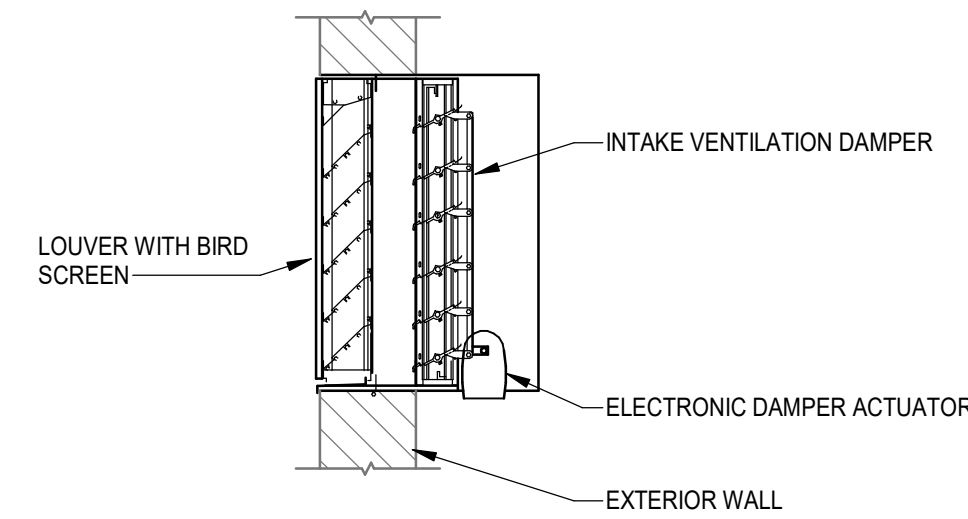
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M501

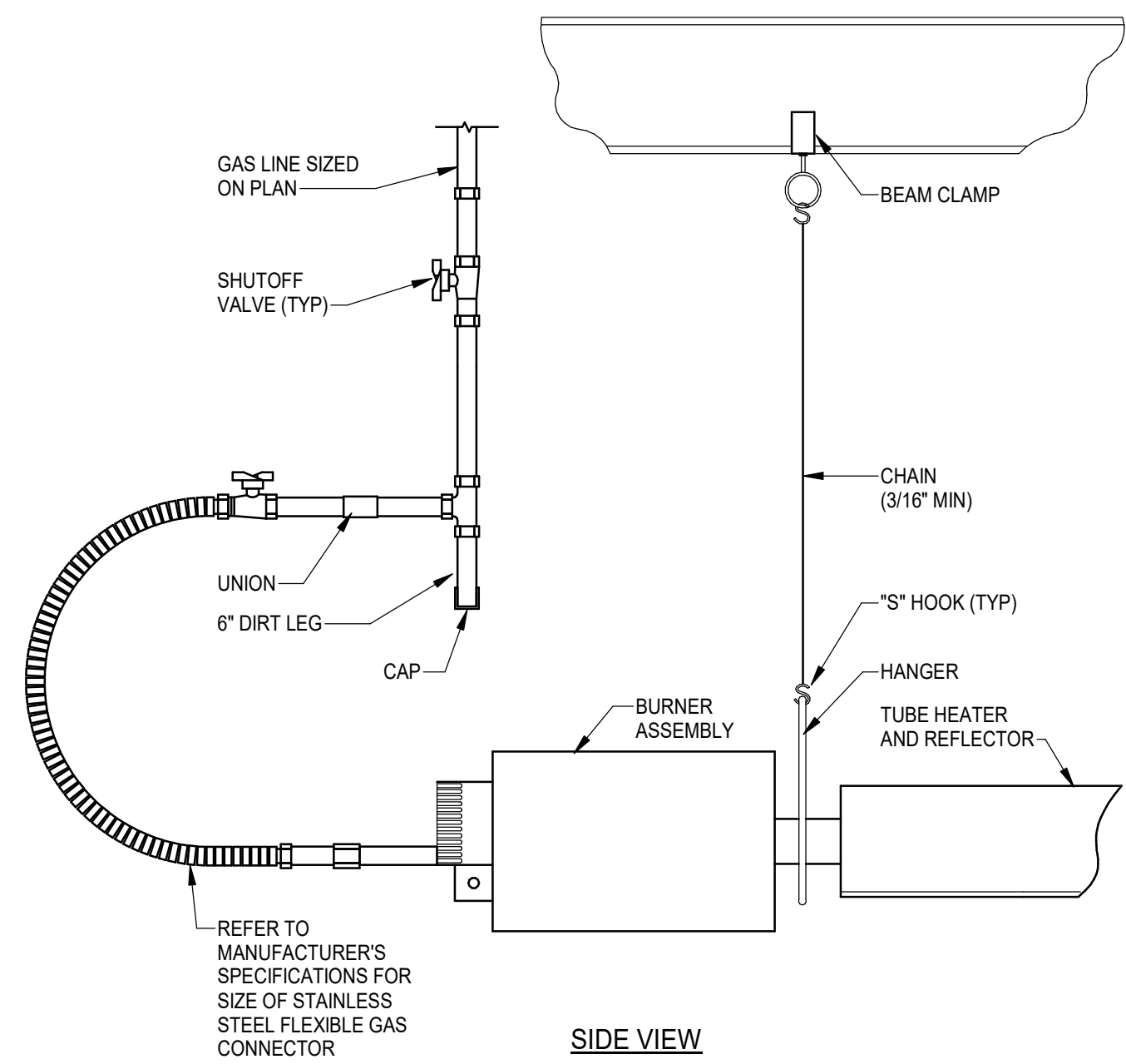
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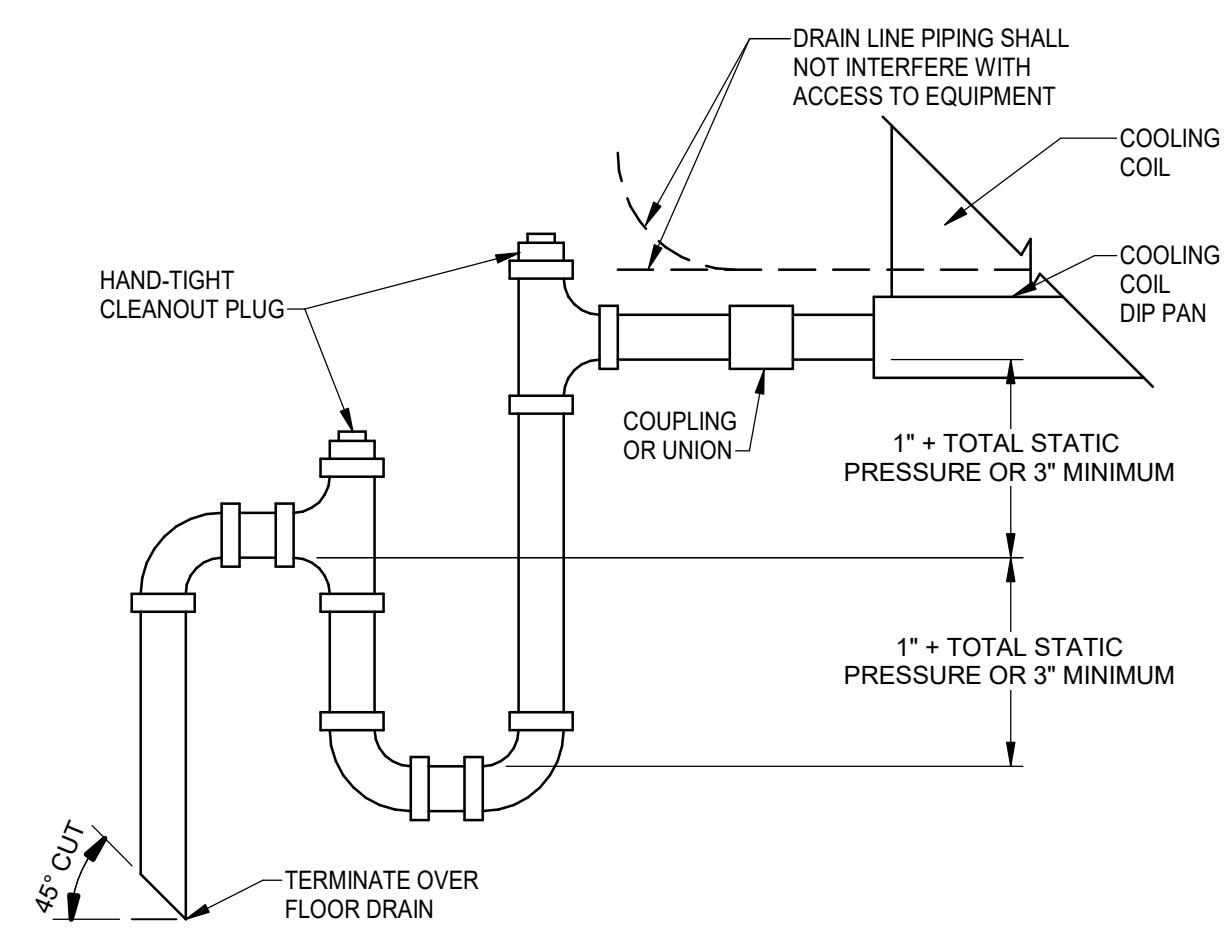
FURNACE - HEAT PUMP
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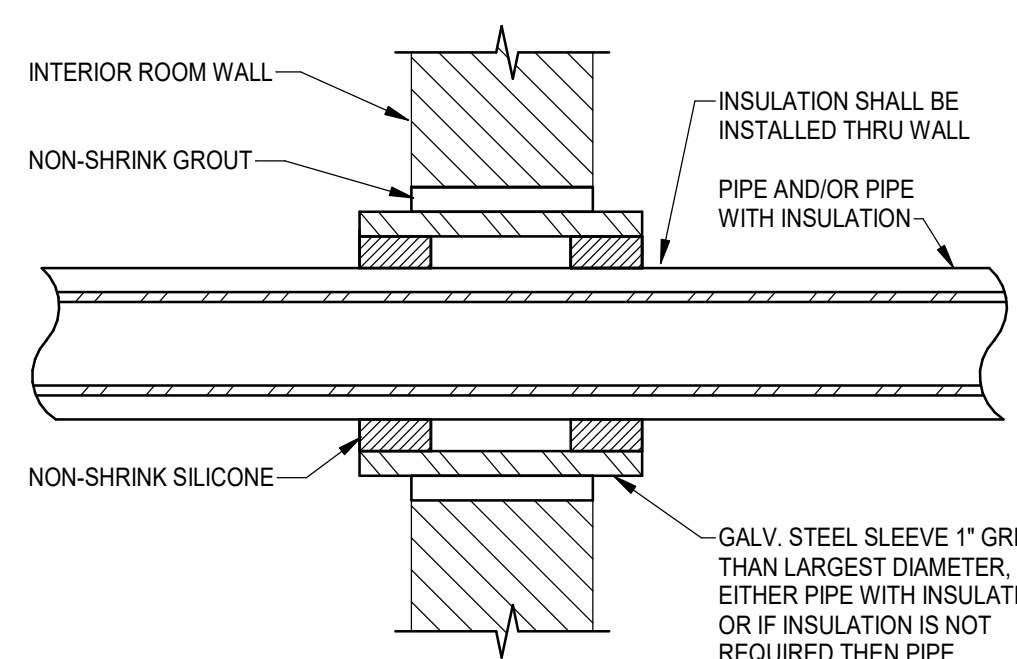
MOTORIZED LOUVER/DAMPER
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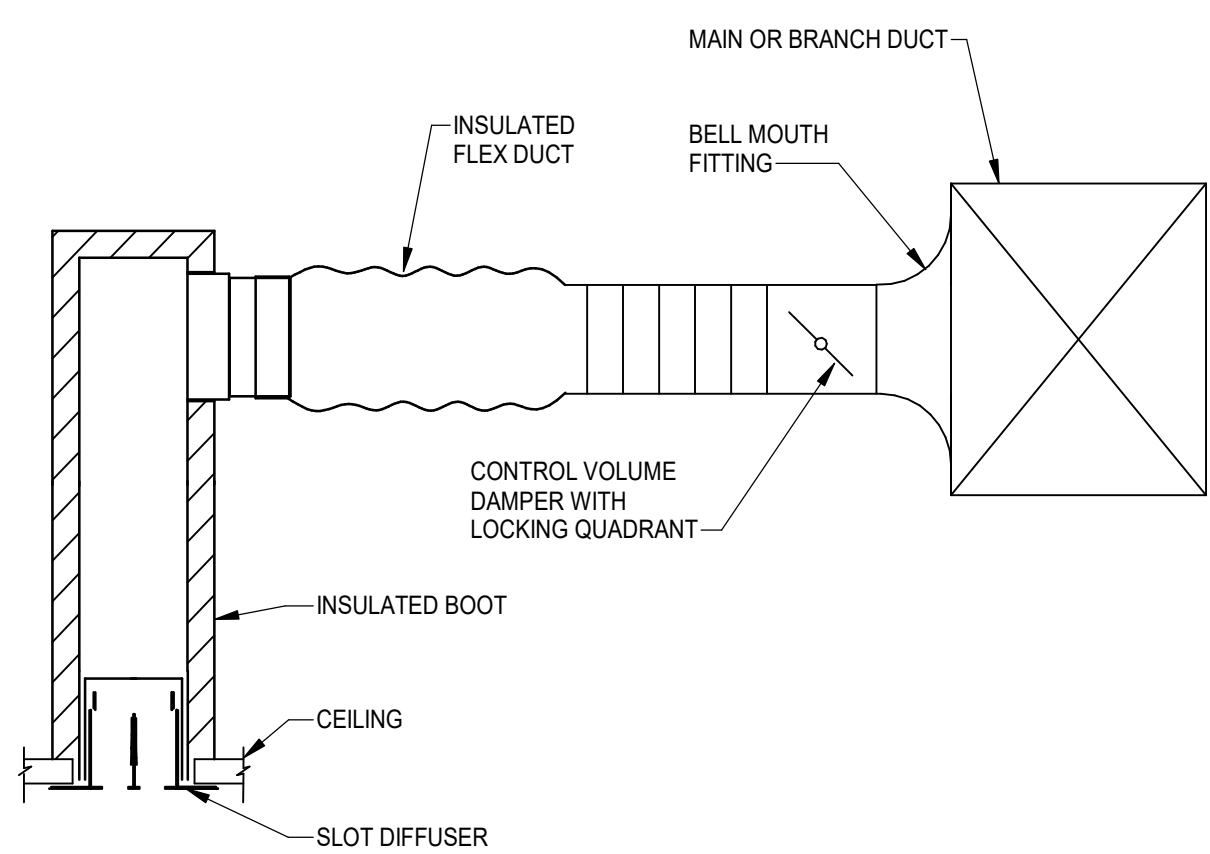
GAS-FIRED INFRARED BURNER INSTALL
NOT TO SCALE 6



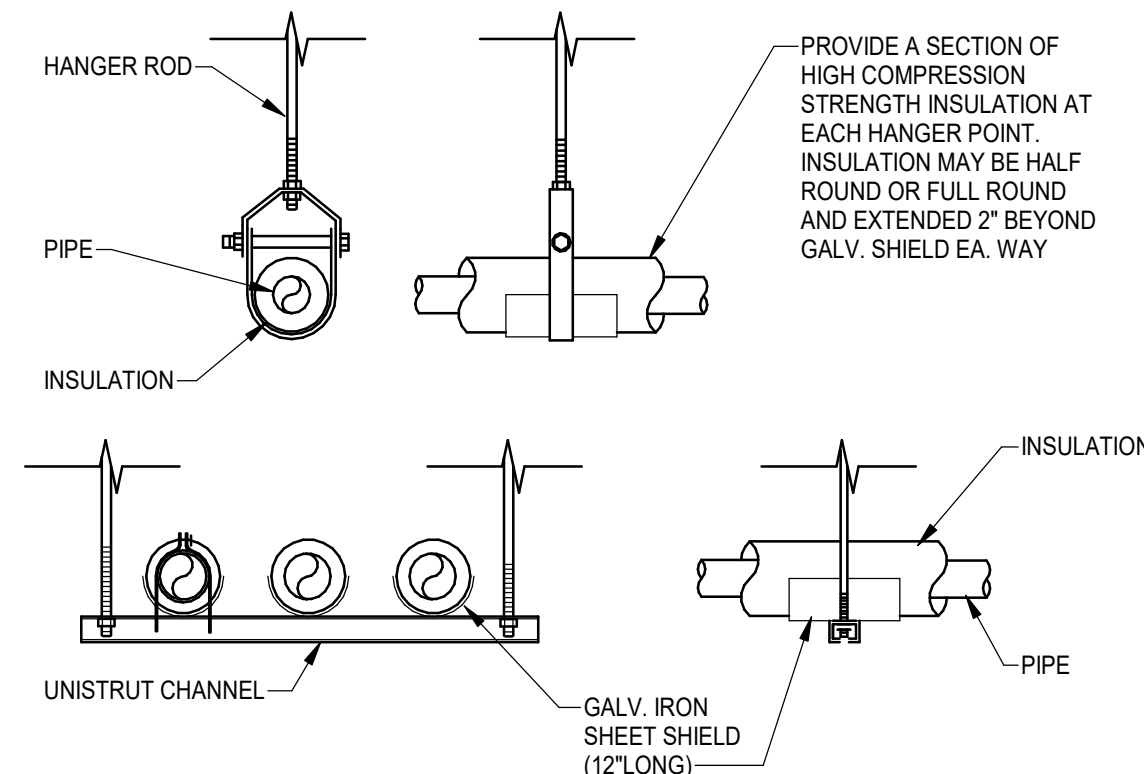
CONDENSATE TRAP
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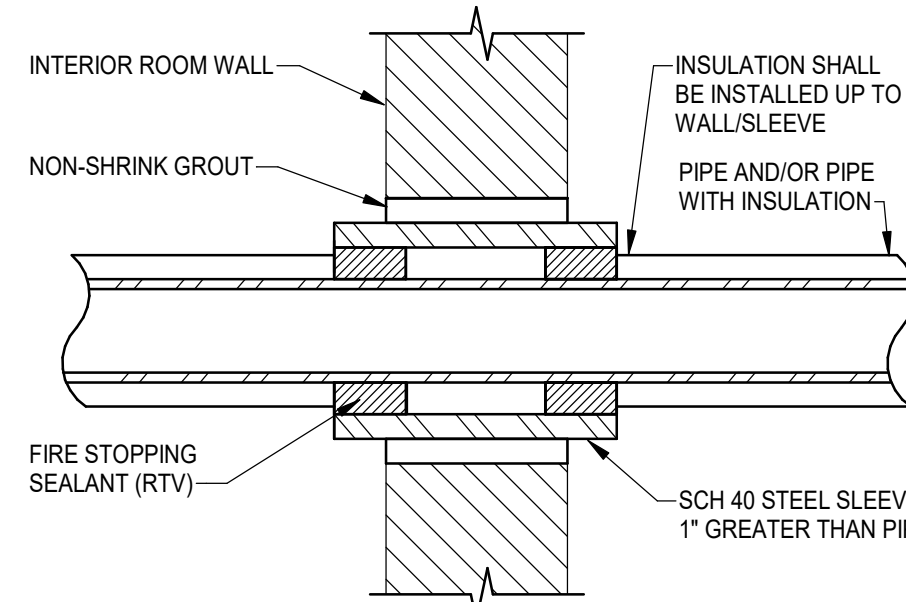
PIPE SLEEVE
THRU NON-RATED INTERIOR WALL
NOT TO SCALE 11



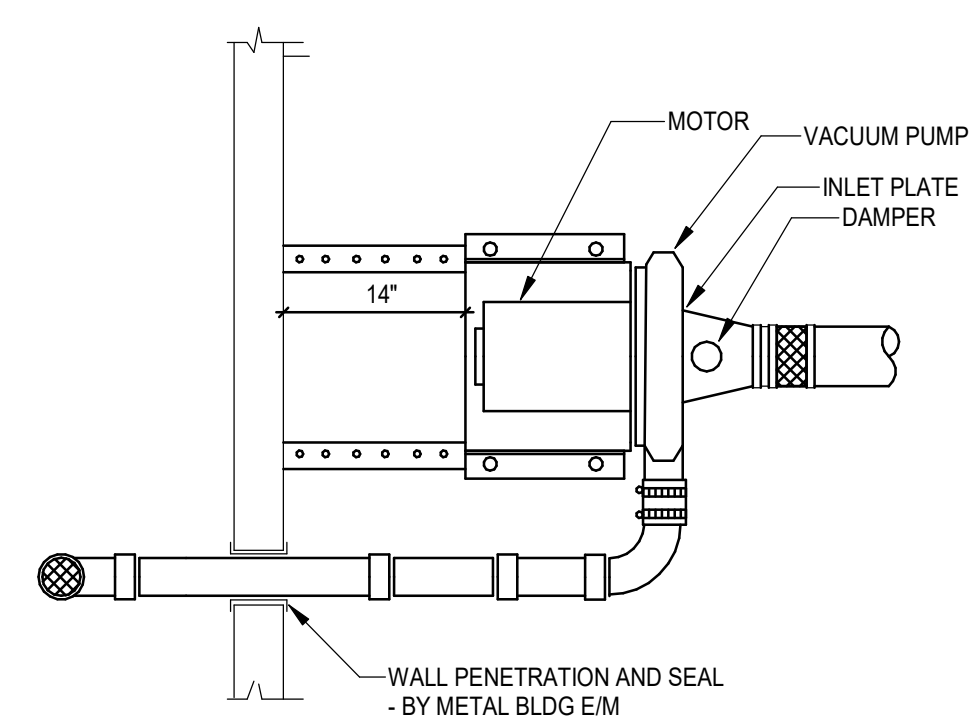
SLOT DIFFUSER
NOT TO SCALE 8



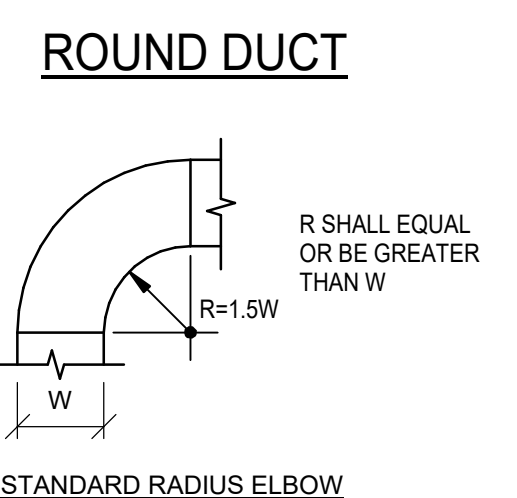
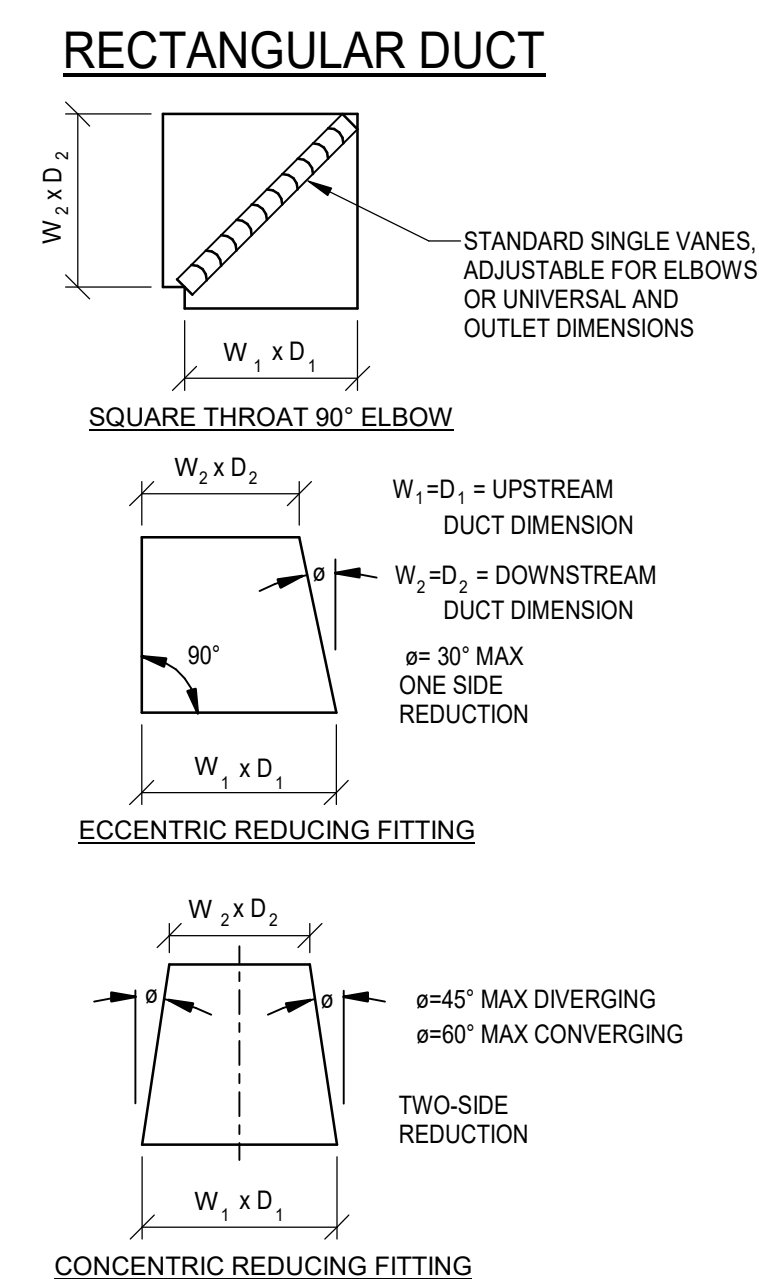
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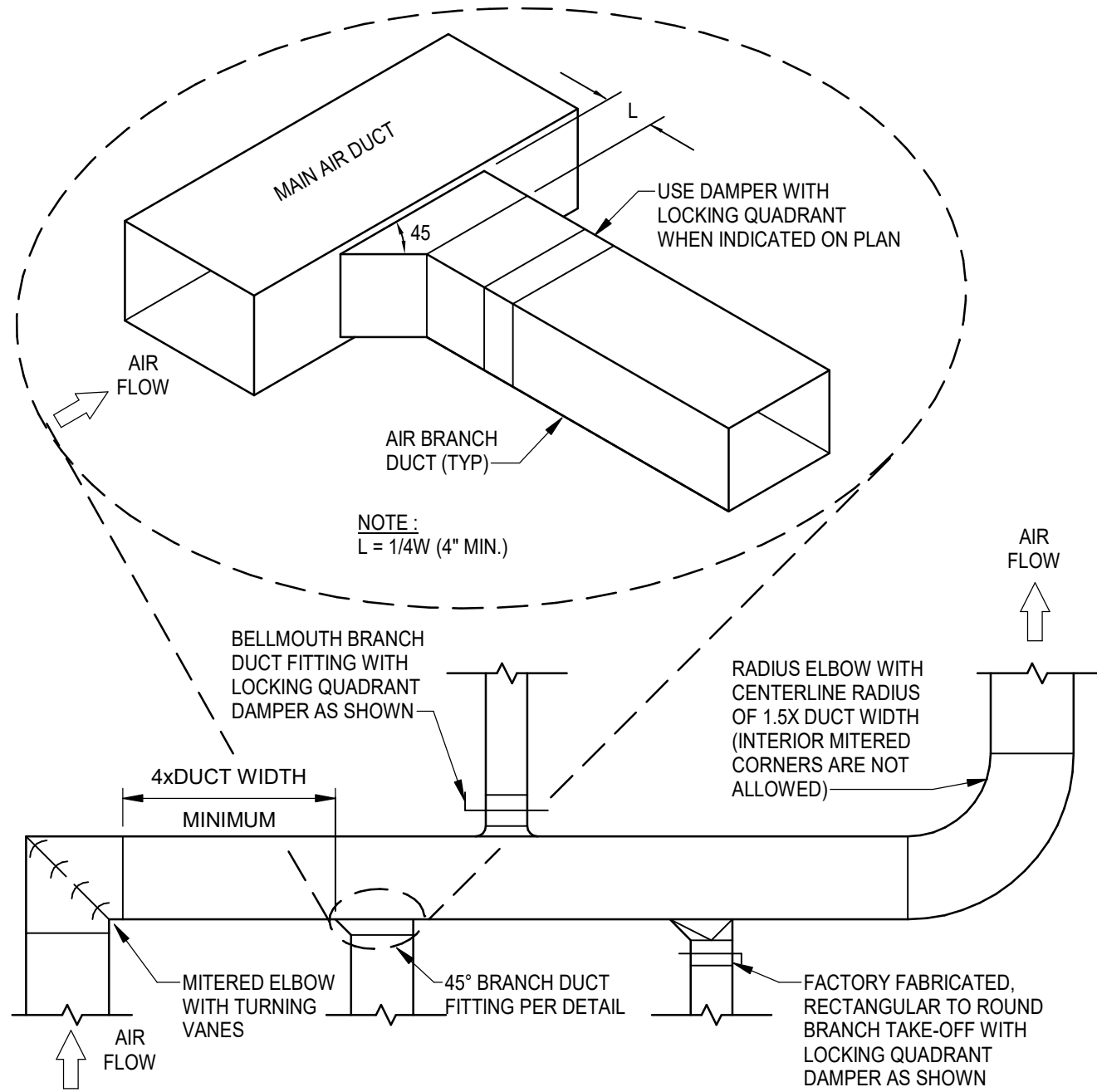
PIPE SLEEVE
THRU RATED INTERIOR WALL
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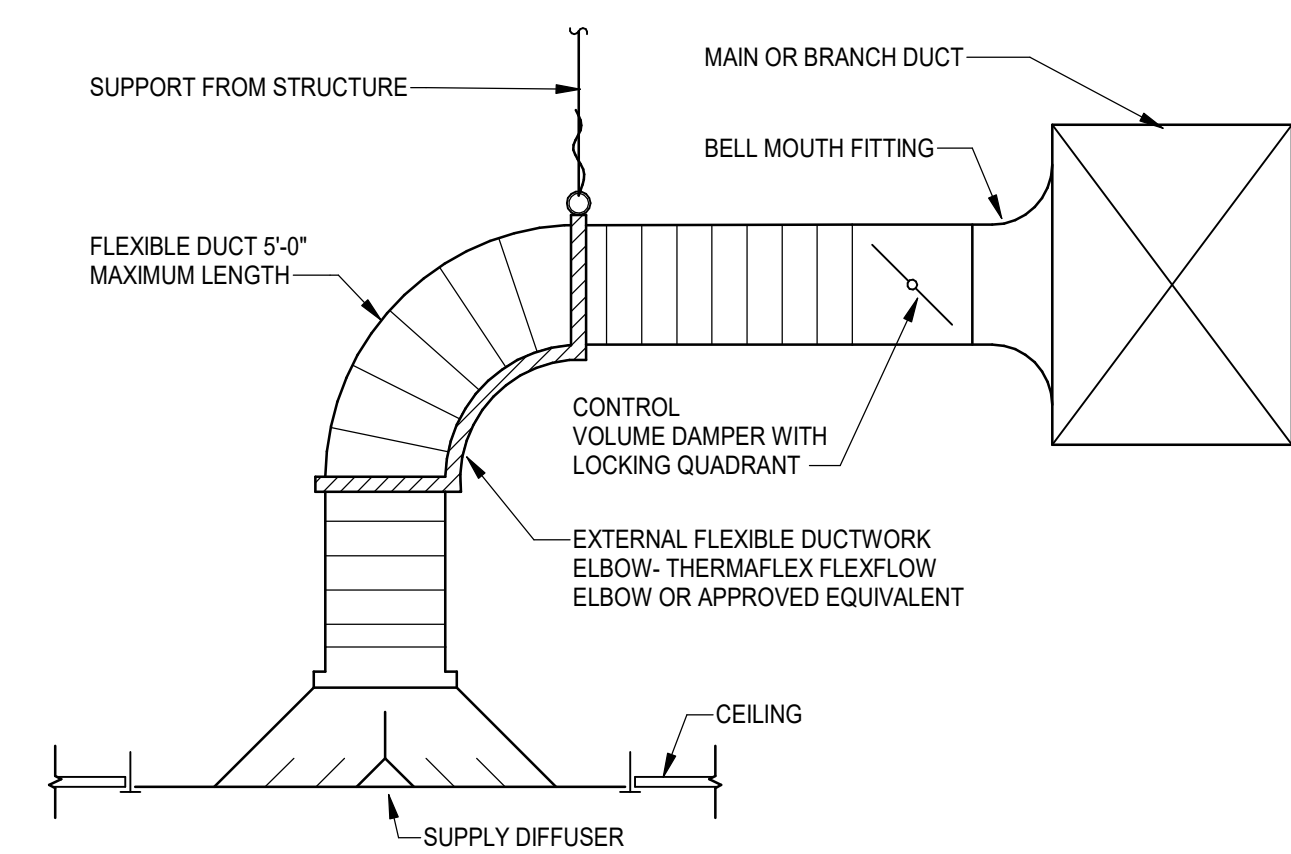
VACUUM PUMP INSTALLATION DETAIL
12" = 1'-0" 10



SHEET METAL FITTINGS
NOT TO SCALE 7



DUCTWORK CONSTRUCTION
NOT TO SCALE 4



CEILING DIFFUSER
NOT TO SCALE 1



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/10 REV.1

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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SHEET TITLE

MECHANICAL DETAILS

M601

SHEET 118 OF 131

LOUVER SCHEDULE

LABEL	MANUFACTURER	MODEL NO	MIN FREE AREA (SQ FT)	CFM	MAX VELOCITY (FPM)	MAX PD (IN WC)	SIZE (IN)			NOTES
							WIDTH	HEIGHT	DEPTH	
EL-1	RUSKIN	ELF6375DX	37.5	30,000	800	0.1	80	88	6	ALL
EL-2	RUSKIN	ELF6375DX	2.3	4,000	800	0.1	30	30	3	ALL
EL-3	RUSKIN	ELF6375DX	0.3	400	800	0.1	10	10	1	ALL
IL-2	RUSKIN	ELF6375DX	3.7	1,800	500	0.1	36	36	6	ALL

NOTES:

1. PROVIDE WITH 3/4" X 0.051 EXPANDED, FLATTENED ALUMINUM BIRD SCREEN IN REMOVABLE FRAME.
2. STANDARD COLOR TO MATCH EXTERIOR. COORDINATE WITH ARCHITECT.
3. SPACE AROUND NEW LOUVER OF FRAME SHALL BE FILLED WITH GROUT, FLASHING, AND CAULK.

EXHAUST FAN SCHEDULE

LABEL	MANUFACTURER	MODEL NO	CFM	EXT SP	TYPE	DRIVE	ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
							VOLTS	PH	HP (W)		
DEF-1	FANTECH	DEDPV	160	0.2	INLINE	DIRECT	120	1	(70)	25	1
DEF-2	FANTECH	DEDPV	160	0.2	INLINE	DIRECT	120	1	(70)	25	1
EF-1	LOREN COOK	GC	800	0.2	CEILING	DIRECT	120	1	1/2	100	2
EF-2	LOREN COOK	S4TD	30,000	0.5	INLINE	DIRECT	480	3	10	500	3
EF-3	LOREN COOK	SOND	400	0.5	INLINE	DIRECT	120	1	1/4	100	3

NOTES:

1. PROVIDE WITH INDICATOR PANEL, TEMPERATURE LIMIT SWITCH, AND SECONDARY UNIT TRAP.
2. PROVIDE DISCONNECT, STARTER, SPEED CONTROL, INLET GRILLE, REMOTE THERMOSTAT AND CONTROL TRANSFORMER, AND SUSPENSION MOUNTING KIT. PROVIDE STARTER AS REQUIRED.
3. PROVIDE DISCONNECT, STARTER, 400V MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, INLET SCREEN AND MOTOR GUARD, REMOTE THERMOSTAT, 3 HOUR TWIST TIMER, AND CONTROL TRANSFORMER, AND WALL MOUNTING KIT. PROVIDE STARTER AS REQUIRED.
4. PROVIDE DISCONNECT, STARTER, 208V MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, SPEED CONTROL, INLET SCREEN, REMOTE THERMOSTAT, 3 HOUR TWIST TIMER, AND CONTROL TRANSFORMER, AND WALL MOUNTING KIT. PROVIDE STARTER AS REQUIRED.
5. PROVIDE DISCONNECT, STARTER, 120V MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, SPEED CONTROL, INLET SCREEN, HYDROGEN DETECTION CONTROL, AND WALL MOUNTING KIT. PROVIDE STARTER AS REQUIRED.

DESTRATIFICATION FAN SCHEDULE

LABEL	MANUFACTURER	MODEL NO	MIN. FPM @ 30"	DRIVE	ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
					VOLTS	PH	W		
DF-1	AIRIUS	S-25-EC-STD	195	DIRECT	208	1	30	20	ALL
DF-2	AIRIUS	S-25-EC-STD	195	DIRECT	208	1	30	20	ALL
DF-3	AIRIUS	A-45-EC-STD	400	DIRECT	208	1	175	15	ALL
DF-4	AIRIUS	A-45-EC-STD	400	DIRECT	208	1	175	15	ALL

NOTES:

1. PROVIDE DISCONNECT, SPEED CONTROL, REMOTE CONTROLLER WITH TWO DELTA-T SENSORS AND MANUAL OVERRIDE, AND SUSPENSION MOUNTING KIT.

HVLS FAN SCHEDULE

LABEL	MANUFACTURER	MODEL NO	BLADES	FAN DIAMETER (")	HP	MAX RPM	ELECTRICAL		UNIT WEIGHT (LBS)	NOTES
							VOLTS	PH		
HVLS-1	GREENHECK	DS-6-20	6	20	1.5	78	208	1	225	ALL
HVLS-2	GREENHECK	DS-6-20	6	20	1.5	78	208	1	225	ALL
HVLS-3	GREENHECK	DS-6-20	6	20	1.5	78	208	1	225	ALL
HVLS-4	GREENHECK	DS-6-20	6	20	1.5	78	208	1	225	ALL

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH, CONTROL KEYPAD, FACTORY-INSTALLED VARIABLE FREQUENCY DRIVE, POWERFOIL BLADES, UNIVERSAL MOUNT, AND SAFETY RESTRAINT SYSTEM.
2. PROVIDE RELAY TO SHUTDOWN FAN ON SIGNAL FROM FIRE ALARM SYSTEM.
3. MOUNT FAN 3 MIN. BELOW CEILING DECK WITH MIN. 3" CLEAR ON ALL SIDES.

UNIT HEATER SCHEDULE (GAS)

LABEL	MANUFACTURER	MODEL NO	CFM	EAT	HEATING (GAS)		ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
					MBH INPUT	MBH OUTPUT	VOLTS	PH	HP		
UHG-1	MOODINE	HD45	720	70	45	36.9	120	1	1/15	100	ALL
UHG-2	MOODINE	HD45	720	70	45	36.9	120	1	1/15	100	ALL

NOTES:

1. PROVIDE SUSPENSION KIT, SINGLE STAGE, INTERMITTENT PILOT IGNITION (100% SHUT-OFF WITH CONTINUOUS RETRY), SINGLE STAGE THERMOSTAT (MOUNT ON UNIT), FACTORY INSTALLED TRANSFORMER, AND DIRECTIONAL DISCHARGE LOUVERS. INSTALL FLUE PIPING PER MANUFACTURER'S INSTRUCTIONS.

UNIT HEATER SCHEDULE (ELECTRIC)

LABEL	MANUFACTURER	MODEL NO	HEATING		ELECTRICAL		UNIT WEIGHT (LBS)	NOTES
			EAT (°F)	KW	VOLTS	PH		
UHE-1	QMARK	LFK404F	50	3.0	208	1	25	ALL
UHE-2	QMARK	LFK404F	50	3.0	208	1	25	ALL

NOTES:

1. PROVIDE WITH DISCONNECT, UNIT-MOUNTED THERMOSTAT, AND NECESSARY MOUNTING BRACKET/ACCESSORIES. WALL-MOUNTED UNITS SHALL BE RECESSED MOUNTED WHERE POSSIBLE.

ENERGY RECOVERY VENTILATOR SCHEDULE

MN	MANUFACTURER	MODEL NO	SUPPLY CFM	SUPPLY HP	EXHAUST CFM	EXHAUST HP	EXT SP IN WC SUPPLY/EXHAUST	SUMMER			WINTER			ELECTRICAL				UNIT WEIGHT (LBS)	NOTES
								OA DBWB	RA DBWB	SA DBWB	OA DB	RA DB	SA DB	VOLTS	PH	MCA	MOCP		
ERV-1	RENEWARE	HE ZXINV	1,825	1.5	1,425	1.5	0.6/1.0	97.2/76.4	75.0/62.4	82.0/70.6	-4	70	40.6	208	3	10.8	15	450	ALL

NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES DUCTWORK EXTERNAL TO UNIT ONLY. UNIT TOTAL STATIC PRESSURE SHALL INCLUDE EXTERNAL STATIC PRESSURE, PLUS COMPONENTS SUCH AS CLEAN FILTERS, DAMPERS, FLAT PLATE HEAT EXCHANGER, ETC. PROVIDE 1" PRESSURE DROP ALLOWANCE FOR DIRTY FILTERS.
2. PROVIDE 2" MERV-8 FILTERS FOR EXHAUST AIRSTREAM, AND 2" MERV-13 FILTERS FOR OUTSIDE AIRSTREAM, 24V MOTORIZED ISOLATION DAMPER FOR OUTSIDE AND EXHAUST AIRSTREAMS, POLYMER CROSS FLOW PLATE HEAT EXCHANGER, AND SPRING/NEOPRENE HANGERS.

FURNACE SCHEDULE (GAS FIRED)

LABEL	ASSOCIATED CONDENSING UNIT	AREA SERVED	MANUFACTURER	FURNACE MODEL NO	COOLING COIL MODEL NO	CFM	EXT SP	MIN OA CFM	HP	COOLING				HEATING (GAS)				ELECTRICAL				UNIT WEIGHTS (LBS)	NOTES	
										EAT DBWB °F	LAT DBWB °F	MBH TOTAL	MBH SENS	EAT °F	LAT °F	MIN MBH OUTPUT	MIN EFFICIENCY	VOLTS	PH	MCA	MOC			
GF-1	CU-1	WEST OFFICES	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,800	0.5	75	1	72.4/60.5	54.0/53.5	40.8	38.3	68.8	90.0	100	41.3	95	120	1	15.4	20	ALL	
GF-2	CU-1	LAUNDRY /RR	DAIKIN	DM97MC0603BN	CXTQ24TASBLU	400	0.5	0	12	72.0/60.0	54.0/53.5	8.5	8.3	70.0	90.0	60	8.6	95	120	1	8.8	15	ALL	
GF-3	CU-1	RECEPTION	DAIKIN	DM97MC0804CN	CXTQ36TASBLU	1,100	0.5	100	3/4	72.9/61.1	54.0/53.5	27.0	24.0	67.3	90.0	80	26.9	95	120	1	11.6	15	250	ALL
GF-4	CU-1	LOBBY	DAIKIN	DM97MC0804CN	CXTQ36TASBLU	1,100	0.5	100	3/4	72.9/61.1	54.0/53.5	27.0	24.0	67.3	90.0	80	26.9	95	120	1	11.6	15	250	ALL
GF-5	CU-2	LEARNING STUDIO	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,750	0.5	250	1	73.5/61.8	54.0/53.5	46.4	39.3	65.7	90.0	100	45.9	95	120	1	15.4	20	250	ALL
GF-6	CU-2	EAST OFFICES	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,775	0.5	50	1	72.3/60.4	54.0/53.5	39.4	37.5	69.2	90.0	100	39.9	95	120	1	15.4	20	250	ALL
GF-7	CU-2	ACTIVE LEARN LAB	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,750	0.5	250	1	73.5/61.8	54.0/53.5	46.4	39.3	65.7	90.0	100	45.9	95	120	1	15.4	20	250	ALL
GF-8	CU-1	PILOT LOUNGE	DAIKIN	DM97MC0603BN	CXTQ36TASBLU	875	0.5	125	1/2	73.4/61.7	54.0/53.5	23.1	19.6	65.8	90.0	60	22.9	95	120	1	8.8	15	250	ALL
GF-9	CU-1	CONFERENCE	DAIKIN	DM97MC0603BN	CXTQ36TASBLU	625	0.5	100	1/2	73.6/61.9	54.0/53.5	16.9	14.1	65.3	90.0	60	16.7	95	120	1	8.8	15	250	ALL
GF-10	CU-1	OBSERVATION DECK	DAIKIN	DM97MC0603BN	CXTQ36TASBLU	1,650	0.5	75	1/2	72.5/60.6	54.0/53.5	37.7	35.2	68.7	90.0	60	38.0	95	120	1	8.8	15	250	ALL
GF-11	CU-1	STAIRS /CORRIDOR	DAIKIN	DM97MC0804CN	CXTQ48TASBLU	1,550	0.5	100	3/4	72.7/60.9	54.0/53.5	36.5	33.4	68.1	90.0	80	36.7	95	120	1	11.6	15	250	ALL
GF-12	CU-2	MEZZANINE	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,750	0.5	250	1	73.5/61.8	54.0/53.5	46.4	39.3	65.7	90.0	100	45.9	95	120	1	15.4	20	250	ALL
GF-13	CU-2	CONFERENCE	DAIKIN	DM97MC0603BN	CXTQ36TASBLU	700	0.5	75	1/2	73.1/61.3	54.0/53.5	17.6	15.4	66.7	90.0	60	17.5	95	120	1	8.8	15	250	ALL
GF-14	CU-2	ACTIVE LEARN LAB	DAIKIN	DM97MC1005CN	CXTQ60TASBLU	1,750	0.5	250	1	73.5/61.8	54.0/53.5	46.4	39.3	65.7	90.0	100	45.9	95	120	1	15.4	20	250	ALL

NOTES:

1. PROVIDE 97% AFUE FURNACE WITH 24 VOLT, SEVEN DAY PROGRAMMABLE THERMOSTAT WITH CONTROL WIRING (PLENUM RATED), UPFLOW CONFIGURATION, BOTTOM FILTER RACK, MERV 8 FILTER, CONCENTRIC VENT TERMINATION KIT, MATCHING CASED AND INSULATED COOLING COIL WITH THERMAL EXPANSION VALVE TO PROVIDE SCHEDULED UNIT CAPACITY AND ALL ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETE WORKING SYSTEM.
2. PROVIDE WITH RETURN AIR SMOKE DETECTOR TO SHUTDOWN UNIT ON DETECTION OF SMOKE.

CONDENSING UNIT SCHEDULE

LABEL	MANUFACTURER	MODEL NO	TYPE	MBH COOLING	MBH HEATING	AMBIENT °F	EER	ELECTRICAL DATA				UNIT WEIGHT (LBS)	NOTES
								VOLTS	PH	MCA	MOC		
CU-1a	DAIKIN	RXYQ120XAYDA	HEAT PUMP	120	135	100	9.8	480	3	20.6	25	600	13.4,5,6
CU-1b	DAIKIN	RXYQ120XAYDA	HEAT PUMP	120	135	100	9.8	480	3	20.6	25	600	13.4,5,6
CU-1c	DAIKIN	RXYQ120XAYDA	HEAT PUMP	120	135	100	9.8	480	3	20.6	25	600	13.4,5,6
CU-2a	DAIKIN	RXYQ168XAYDA	HEAT PUMP	168	188	100	9.5	480	3	25.9	35	750	23.4,5,6
CU-2b	DAIKIN	RXYQ120XAYDA	HEAT PUMP	120	135	100	9.5	480	3	20.6	25	600	23.4,5,6
CU-2c	DAIKIN	RXYQ36XAYDA	HEAT PUMP	96	108	100	9.5	480	3	20.6	25	600	23.4,5,6






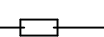





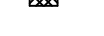


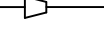


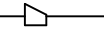
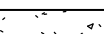


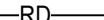














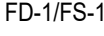


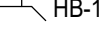


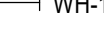

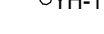
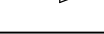





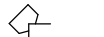


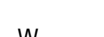













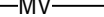


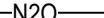










NOTES:

1. CONDENSING UNITS SHALL BE PAIRED TOGETHER. DAIKIN RXYQ360XAYDA OR EQUAL.
2. CONDENSING UNITS SHALL BE PAIRED TOGETHER. DAIKIN RXYQ360XAYDA OR EQUAL.
3. PROVIDE WITH METAL EQUIPMENT SUPPORT STANDS TO BE INSTALLED ON HOUSEKEEPING PAD.
4. PROVIDE UNIT WITH COMPRESSOR HIGH AND LOW PRESSURE SWITCHES, HALGAARDS, COMPRESSOR SERVICE VALVES, MINIMUM 3 MINUTE TIME DELAY ON COMPRESSOR RE-START, LOW AMBIENT TEMPERATURE CONTROLS (OPERATION DOWN TO 0°F AMBIENT TEMPERATURE). DISCONNECT SHALL BE BY DIVISION 26 CONTRACTOR.
5. PROVIDE REFRIGERANT LINE KIT SIZED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL REFRIGERANT SPECIAL TIES REQUIRED FOR A COMPLETE OPERATING SYSTEM, INCLUDING FILTER DRIER, SIGHT GLASS, ETC.
6. HEATING CAPACITY SHALL BE SIZED AT 0°F AMBIENT TEMPERATURE. COOLING CAPACITY SHALL BE SIZED AT 100°F AMBIENT TEMPERATURE.

AIR DISTRIBUTION DEVICE SCHEDULE

LABEL	MANUFACTURER	MODEL NO	FACE	CONSTRUCTION TYPE	FACE SIZE (")	MAX PRESSURE (")	MAX NC	NOTES
RS-1	TITUS	OMNI-AA	PLAQUE	ALUMINUM	24x24	0.1	25	2.3,5
SD-1	TITUS	OMNI-AA	PLAQUE	ALUMINUM	24x24	0.1	25	12.3,5
SD-2	TITUS	OMNI-AA	PLAQUE	ALUMINUM	12x12	0.1	25	12.3,5
SD-3	SEPHO	NTX	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2,5
SG-1	TITUS	S-DL	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	6
SG-2	TITUS	S300 FL	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	4,8
SG-3	TITUS	CT-480	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2.4,5,7
SG-4	TITUS	CT-580	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2.4,5
SG-5	TITUS	S300 FL	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2.3,4,5
LD-1	TITUS	FL-15-HT	1.5" LINEAR SLOT	ALUMINUM	1.5" LINEAR SLOT	0.1	25	5
LD-2	TITUS	FL-15-JT	1.5" LINEAR SLOT	ALUMINUM	1.5" LINEAR SLOT	0.1	25	5
PB-1	TITUS	FBPI	1.5" SLOT PLENUM	STEEL	4'-0" NOMINAL	0.1	25	-
PB-2	TITUS	FBPI	1.5" SLOT PLENUM	STEEL	6'-0" NOMINAL	0.1	25	-
RG-1	TITUS	OMNI-AA	PLAQUE	ALUMINUM	24x24	0.1	25	2.3,5
RG-2	TITUS	PAR-AA	PERFORATED	ALUMINUM	SEE PLANS	0.1	25	2.3,5
RG-3	TITUS	350 FL	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2.3,5
EG-1	TITUS	OMNI-AA	PLAQUE	ALUMINUM	24x24	0.1	25	2.3,5
EG-2	TITUS	OMNI-AA	PLAQUE	ALUMINUM	12x12	0.1	25	2.3,5
EG-3	TITUS	350 FL	LOUVERED	ALUMINUM	SEE PLANS	0.1	25	2.3,5

11/8/2023 9:27:18 AM

PLUMBING SYMBOL LEGEND					
GENERAL					
	EXISTING		PIPE OR DUCT UP		FLOW DIRECTION ARROW
	DEMOLITION		PIPE OR DUCT DOWN		PIPE EXPANSION JOINT
	NEW		PIPE OR DUCT CAP		FLEXIBLE CONNECTOR
	NEW TO EXISTING		PIPE ANCHOR		CONCENTRIC REDUCER
	SHEET NOTE		PIPE GUIDE		ECCENTRIC REDUCER
	REVISION DELTA		PIPE ROLLER SUPPORT		CONCRETE
					GRAVEL
SANITARY & DOMESTIC					
	SANITARY DRAIN BELOW GRADE (PLAN)		TEMPERED WATER		ROOF DRAIN (ABOVE GRADE)
	SANITARY DRAIN ABOVE GRADE (PLAN)		TEMPERED WATER CIRCULATING		ROOF DRAIN (BELOW GRADE)
	COLD WATER (CW)		VENT		OVERFLOW DRAIN (ABOVE GRADE)
	HOT WATER (HW)		VENT BELOW FLOOR		OVERFLOW DRAIN (BELOW GRADE)
	HOT WATER CIRCULATING (HWC)		CONDENSATE DRAIN PIPING		
	140°F DOMESTIC HOT WATER				
FIXTURES					
	VTR VENT THRU ROOF		GRADE CLEAN OUT		FLOOR DRAIN OR SINK AND TYPE
	RD-1 ROOF DRAIN		FLOOR CLEAN OUT		HOSE BIBB
	OD-1 OVERFLOW DRAIN		WALL CLEAN OUT		WALL HYDRANT
			HORIZ. CLEAN OUT		YARD HYDRANT
					DOWNSPOUT NOZZLE
SITE					
	WATER SERVICE		WELL		STORM DRAIN
	CURB STOP VALVE		YARD HYDRANT		THRUST BLOCK
	SANITARY SEWER (SITE)		GAS RISER		WATER MAIN
	STORM SEWER (SITE)		GAS METER		
SPECIALTY SYSTEMS					
	REVERSE OSMOSIS		LIQUID REFRIGERANT		DISTILLED WATER
	OXYGEN PIPING		SUCTION REFRIGERANT		LABORATORY VACUUM
	REFRIGERANT DISCHARGE		PAIR REFRIGERANT LINES (SUCTION, LIQUID)		MEDICAL VACUUM
	FUEL OIL RETURN		PROPANE		NITROUS OXIDE
	FUEL OIL SUCTION		CARBON DIOXIDE		LIQUID OXYGEN
	FUEL OIL VENT		NITROGEN		LABORATORY COMPRESSED AIR
	NATURAL GAS		AIR OUTLET		MEDICAL COMPRESSED AIR
	LIQUID PETROLEUM GAS		VACUUM (AIR)		DEIONIZED WATER
	COMPRESSED AIR				

GENERAL NOTES

- A. CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- B. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- C. COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS. REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
- D. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
- E. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.
- F. DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS, AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- G. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES OR IN OPEN CEILING ARCHITECTURE. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING PROVIDE AN ISOLATING DIELECTRIC FITTING. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.
- H. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL AT SANITARY JOINTS.
- I. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED - DO NOT SUPPORT FROM ROOF DECKING. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS AND CHASES TO SERVE FIXTURES AND EQUIPMENT.
- J. PROVIDE CLEANOUTS AT THE BEGINNING OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE (UP TO 4"), CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.
- K. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES AND VALVES ARE CONCEALED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS.
- L. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- M. MAINTAIN MANDATORY 10'-0" SEPARATION FROM ALL VENTS/EXHAUST AND OUTSIDE AIR INTAKES. REFER TO MECHANICAL PLANS PRIOR TO ROUGH-IN.
- N. DEFINITIONS:
1. PROVIDE - CONTRACTOR SHALL FURNISH AND INSTALL.
2. FURNISH - CONTRACTOR SHALL OBTAIN FOR OTHERS TO INSTALL.
3. INSTALL - CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE.



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1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT

LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	NPB
DRAWN BY:	NPB
CHECKED BY:	KLC
APPROVED BY:	TWO
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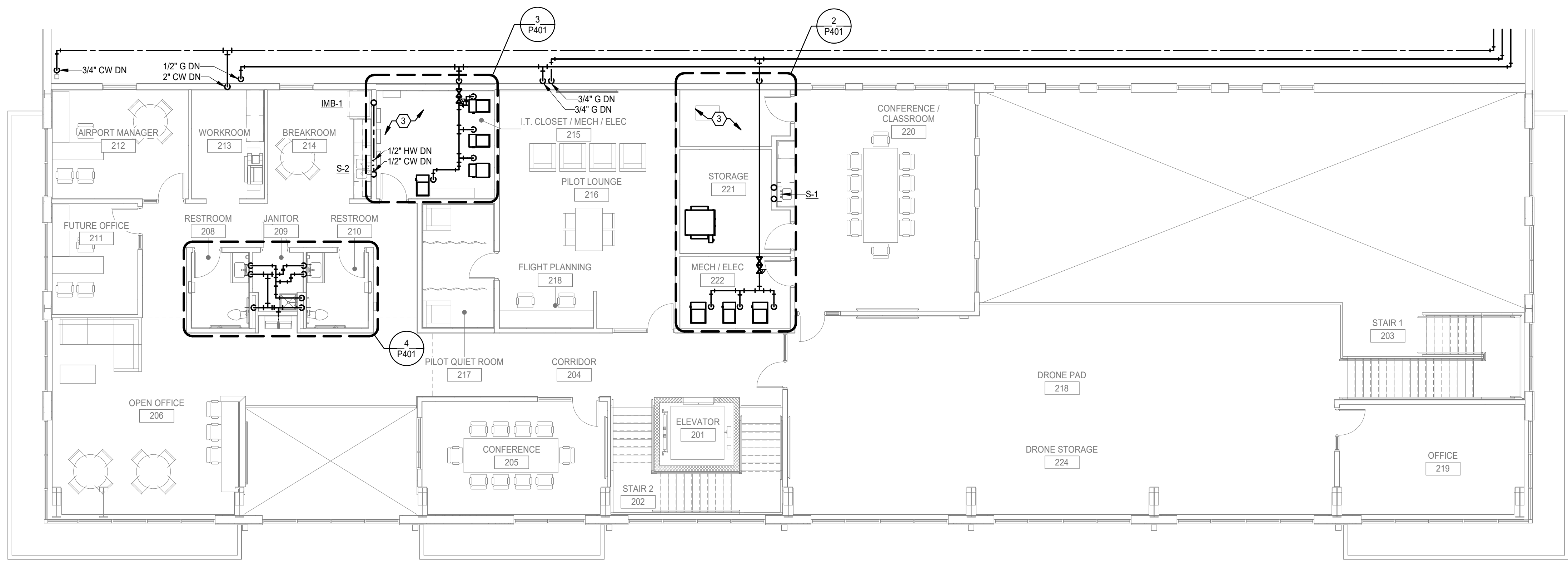
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GENERAL PLUMBING
INFORMATION

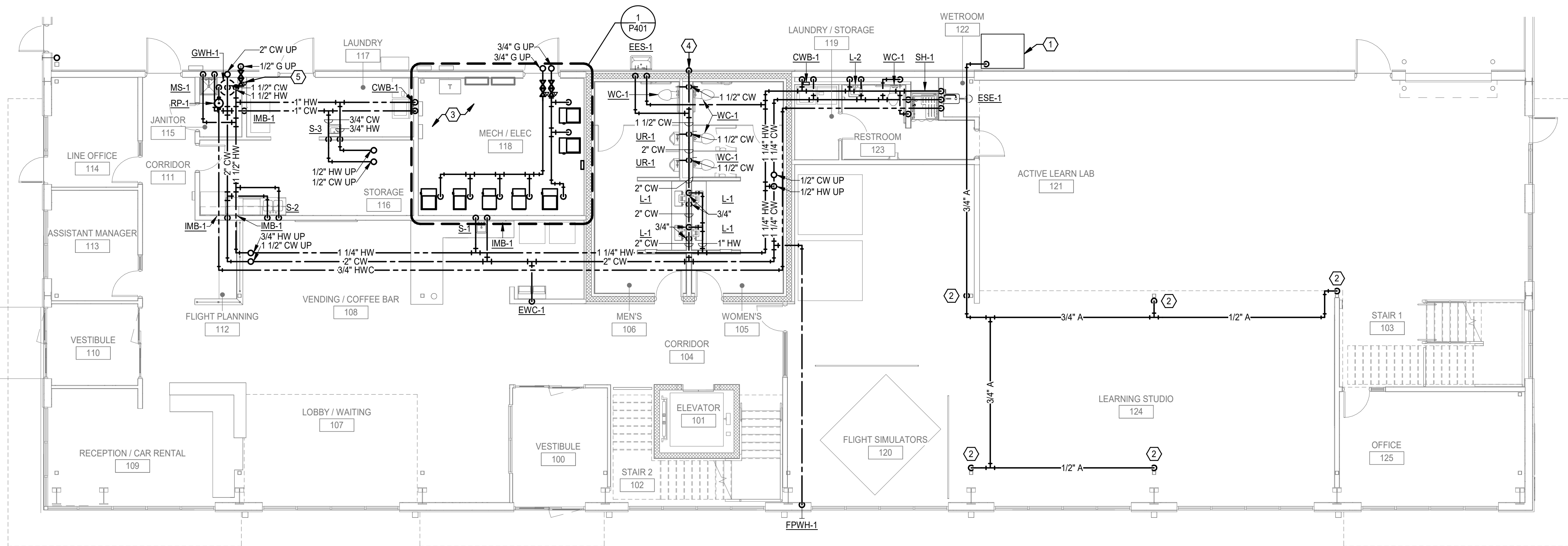
P001

SHEET 120 OF 131

11/8/2023 9:27:22 AM



DOMESTIC WATER & NATURAL GAS PIPING SECOND FLOOR PLAN 2 1/8" = 1'-0"



DOMESTIC WATER & NATURAL GAS PIPING FIRST FLOOR PLAN 1 1/8" = 1'-0"

PLUMBING KEYNOTES

- 1 OWNER-FURNISHED COMPRESSOR. COORDINATE SPECIFIC REQUIREMENTS WITH OWNER.
- 2 1/2" COMPRESSED AIR DROP. PROVIDE QUICK COUPLER CONNECTION FOR OWNER SUPPLIED HOSE AND VALVE. COORDINATE SPECIFIC REQUIREMENTS AND ELEVATIONS WITH OWNER.
- 3 DO NOT ROUTE PIPING OVER ELECTRICAL PANELS OR EQUIPMENT. MAINTAIN WORKING CLEARANCES AS DEFINED BY THE ELECTRICAL CODE.
- 4 3/4" SHUTOFF VALVE AND VACUUM BREAKER INSTALLED AT 48" AFF. ROUTE 3/4" CW PIPING BELOW SLAB TO 3/4" AND 1/2" CW CONNECTIONS ON FLUSHING FLOOR DRAIN.
- 5 PROVIDE 2 PSI TO 7" W.C. PRESSURE REDUCING VALVE.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
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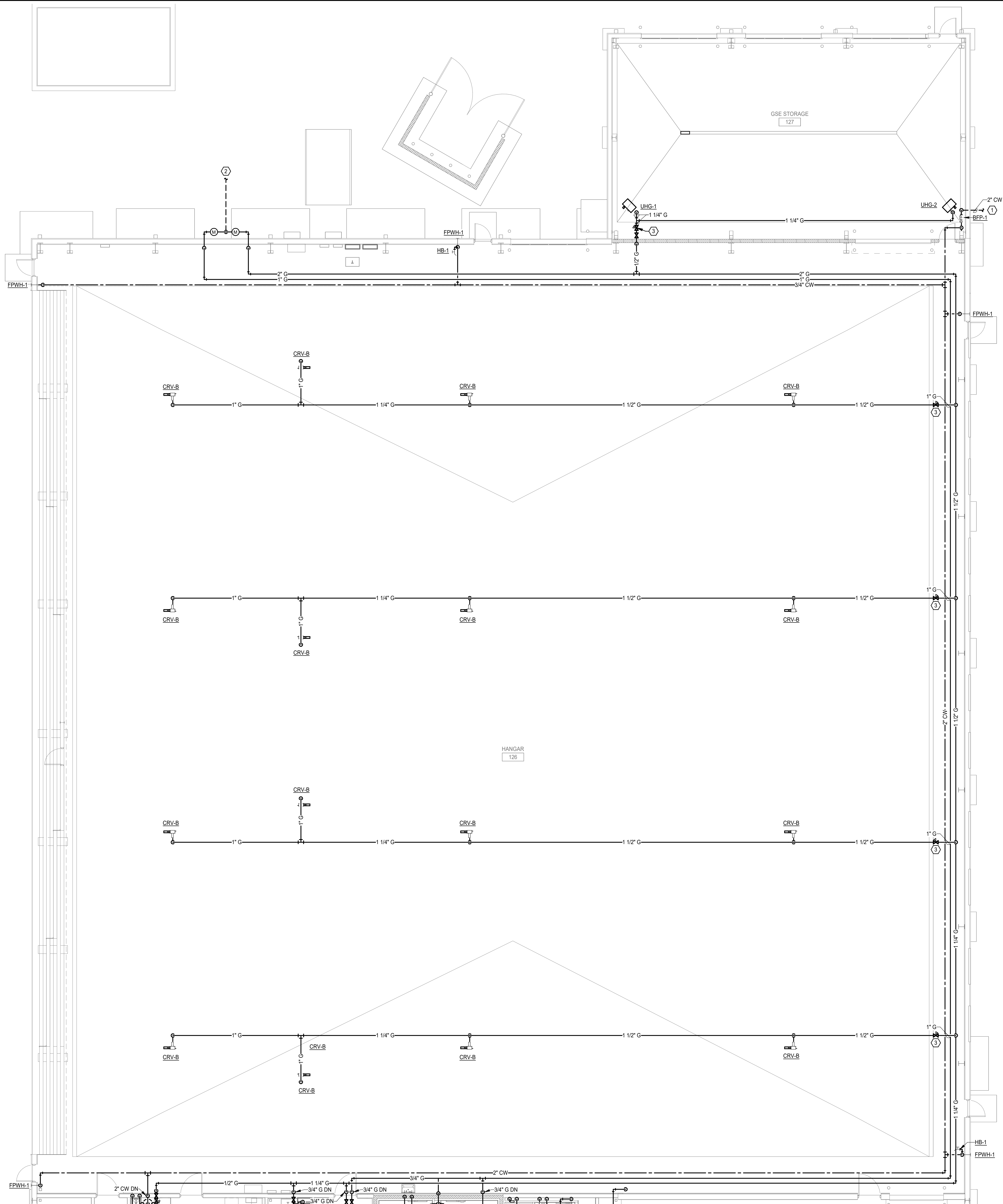
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DOMESTIC WATER &
NATURAL GAS PIPING
FLOOR PLANS

P101

SHEET 121 OF 131

11/8/2023 9:27:25 AM



PLUMBING KEYNOTES

- 1 REFER TO CIVIL DRAWINGS FOR SIZE, LOCATION, AND INVERT OF CONNECTION.
- 2 PROVIDE 2 PSI GAS SERVICE. REFER TO GAS CONNECTED LOAD TABLES.
- 3 PROVIDE 2 PSI TO 7 W.C. PRESSURE REDUCING VALVE.

LEE'S SUMMIT EXECUTIVE AIRPORT GAS CONNECTED LOAD TABLE

EQUIPMENT	BTUH
GF-1	100
GF-2	60
GF-3	80
GF-4	80
GF-8	60
GF-9	60
GF-10	60
GF-11	80
RADIANT SYSTEM #1	800
RADIANT SYSTEM #2	800
UHG-1	45
UHG-2	45
GWH-1	120
TOTAL SYSTEM LOAD	2,360

MAIN AND BRANCH LINES HAVE BEEN SIZED USING THE "LONGEST LENGTH METHOD" FROM 2018 IFGC. THE LONGEST RUN TO THE FURTHEST MOST EQUIPMENT FROM THE METER IS 550 FT. ASSUMED 2 PSI DISTRIBUTION PRESSURE WITH A MAXIMUM 1 PSI PRESSURE DROP.

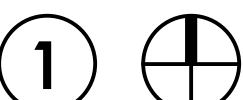
LEE'S SUMMIT SCHOOL DISTRICT GAS CONNECTED LOAD TABLE

EQUIPMENT	BTUH
GF-5	100
GF-6	100
GF-7	100
GF-12	100
GF-13	60
GF-14	100
TOTAL SYSTEM LOAD	560

MAIN AND BRANCH LINES HAVE BEEN SIZED USING THE "LONGEST LENGTH METHOD" FROM 2018 IFGC. THE LONGEST RUN TO THE FURTHEST MOST EQUIPMENT FROM THE METER IS 510 FT. ASSUMED 2 PSI DISTRIBUTION PRESSURE WITH A MAXIMUM 1 PSI PRESSURE DROP.

DOMESTIC WATER & NATURAL GAS PIPING HANGAR FLOOR PLAN

1/8" = 1'-0"



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

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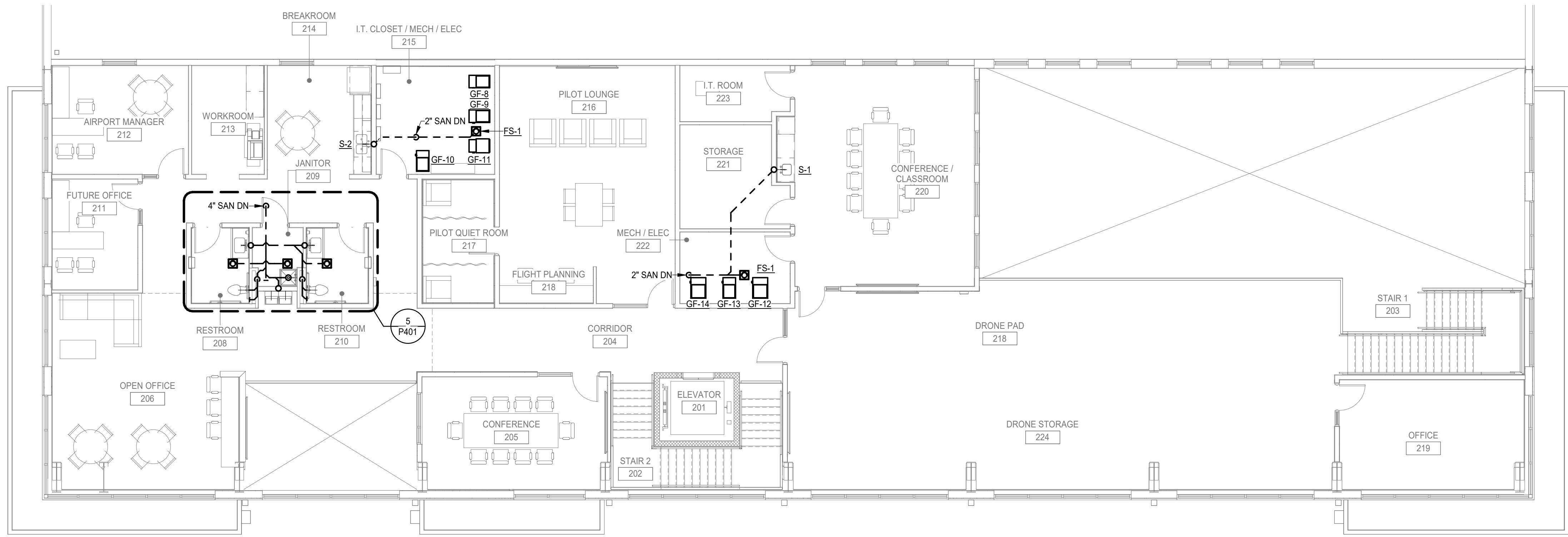
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DOMESTIC WATER & NATURAL GAS PIPING
HANGAR FLOOR PLAN

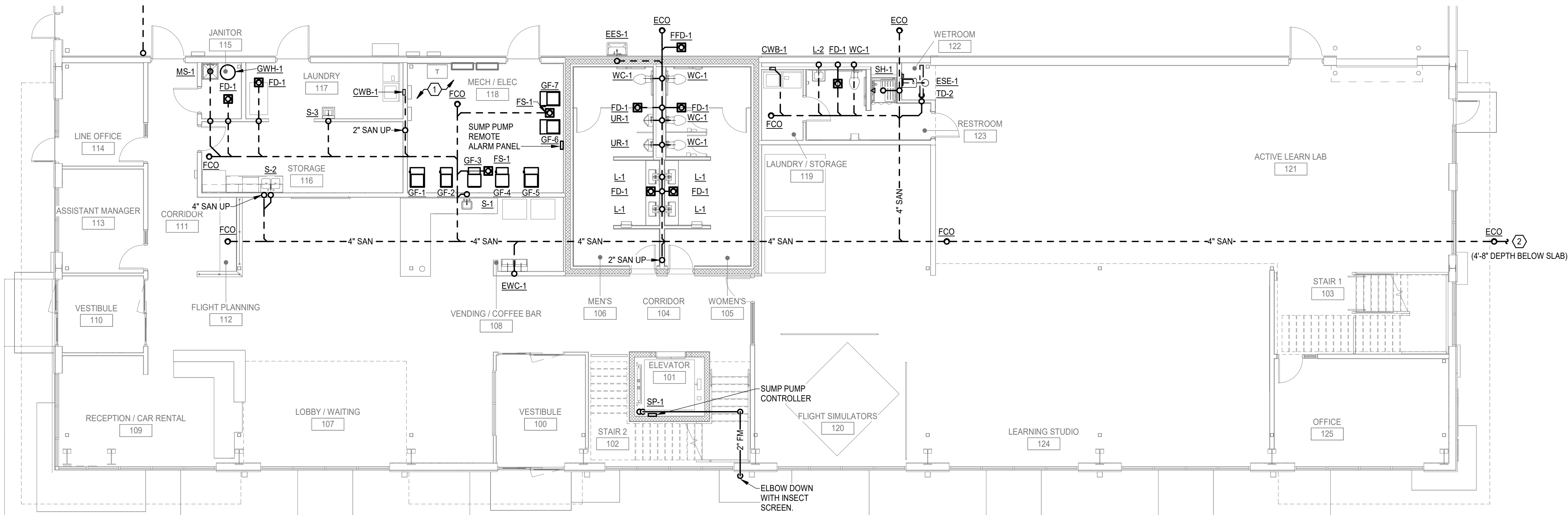
P102

SHEET 122 OF 131

11/8/2023 9:27:29 AM



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



SANITARY PIPING FIRST FLOOR PLAN 1 1/8" = 1'-0"

PLUMBING KEYNOTES

- 1 DO NOT ROUTE PIPING OVER ELECTRICAL PANELS OR EQUIPMENT. MAINTAIN WORKING CLEARANCES AS DEFINED BY THE ELECTRICAL CODE.
- 2 REFER TO CIVIL DRAWINGS FOR SIZE, LOCATION, AND INVERT OF CONNECTION.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



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LEES SUMMIT, MO

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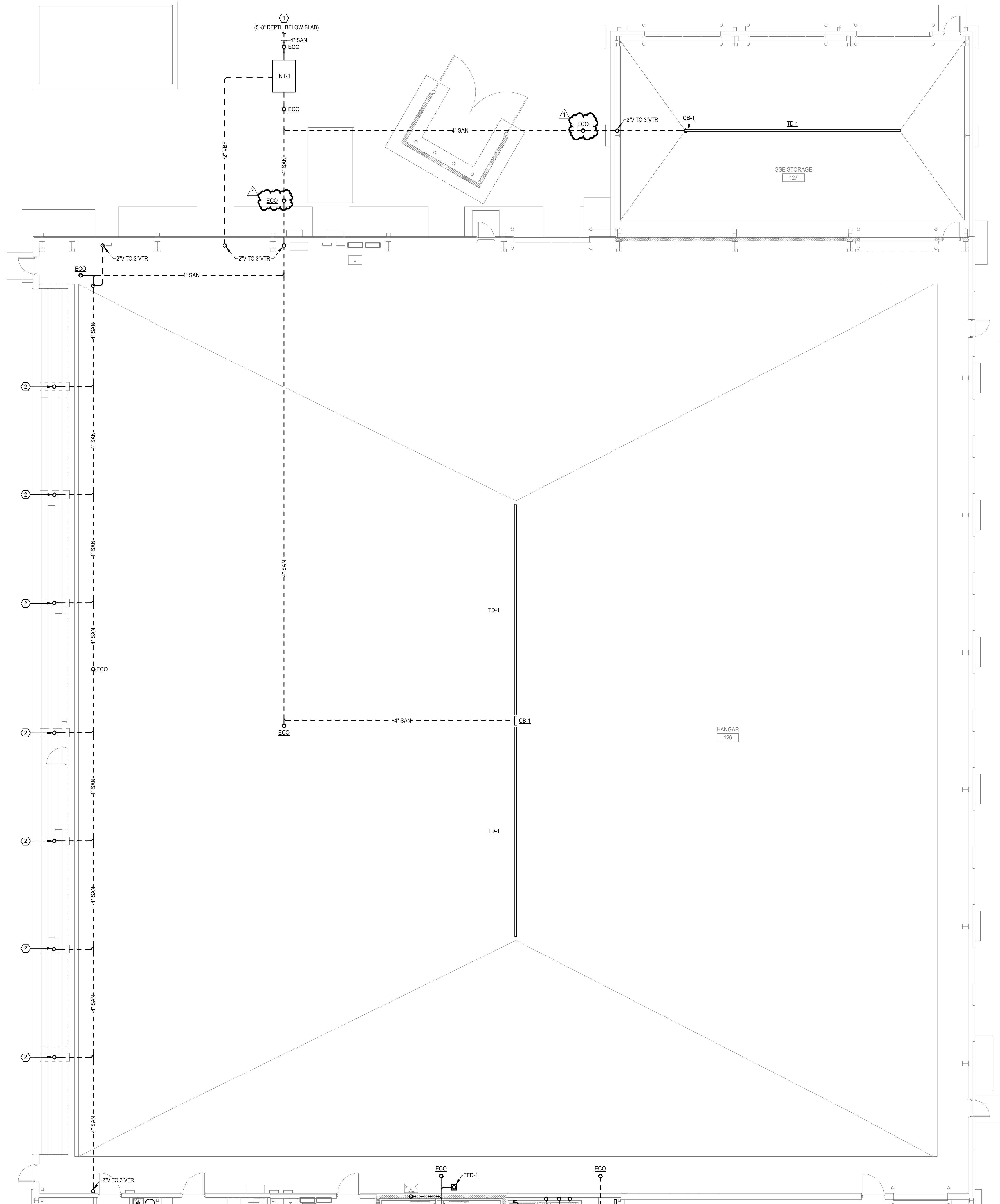
SHEET TITLE

SANITARY PIPING
FLOOR PLANS

P201

SHEET 123 OF 131

11/8/2023 9:27:31 AM



PLUMBING KEYNOTES

- 1 REFER TO CIVIL DRAWINGS FOR SIZE, LOCATION, AND INVERT OF CONNECTION.
- 2 PROVIDE 4" SANITARY CONNECTION ON BOTTOM OF SUMP. COVER WITH DOME STRAINER.

HANGAR SANITARY SYSTEMS ARE VENTED IN ACCORDANCE WITH 2018 IPC SECTION 915: COMBINATION WASTE AND VENT SYSTEM.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

11/1/10 REV. 1

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SANITARY PIPING
HANGAR FLOOR PLAN

P202

SHEET 124 OF 131

SANITARY PIPING HANGAR FLOOR PLAN

1/8" = 1'-0"

1



11/8/2023 9:27:35 AM

PLUMBING KEYNOTES

1 PROVIDE 2 PSI TO 7" W.C. PRESSURE REDUCING VALVE.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION
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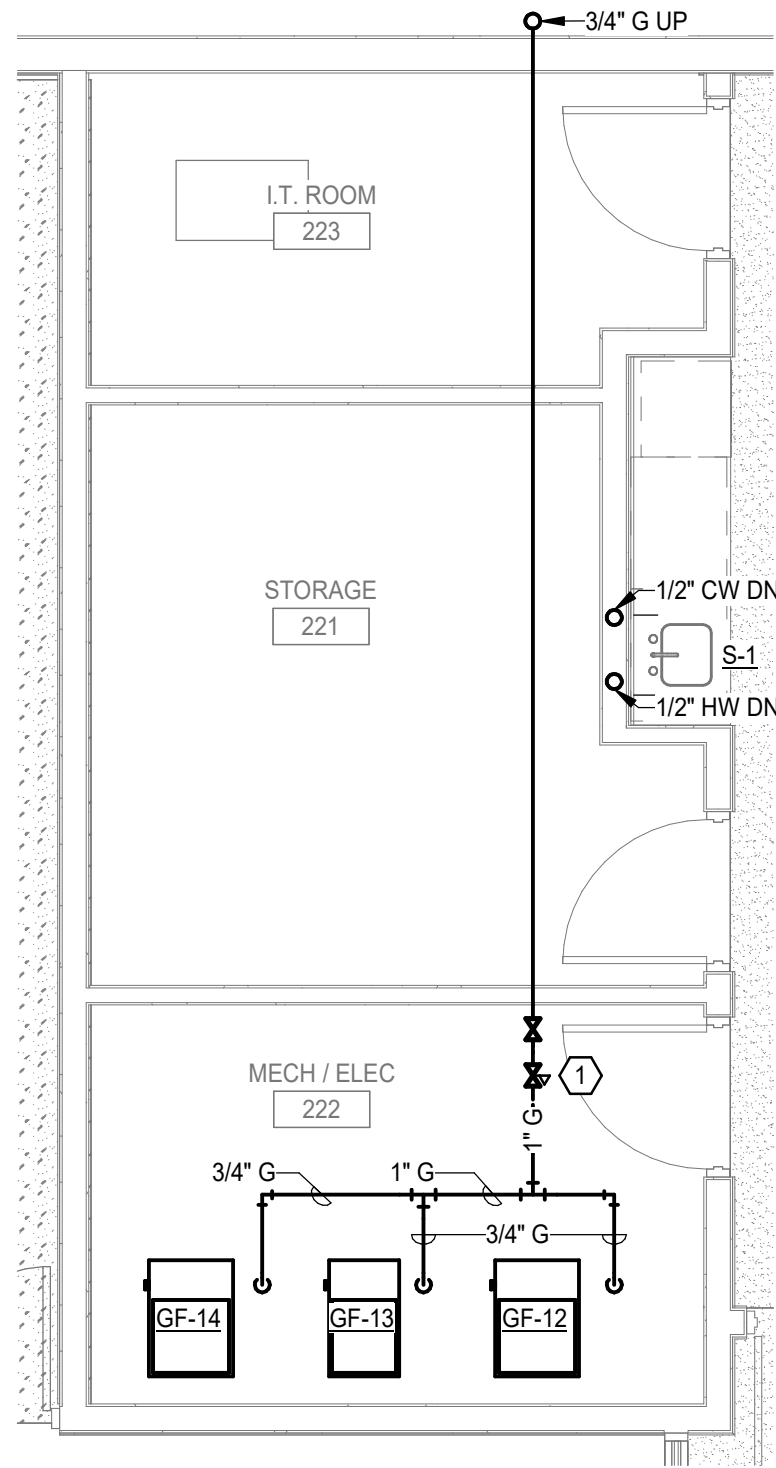
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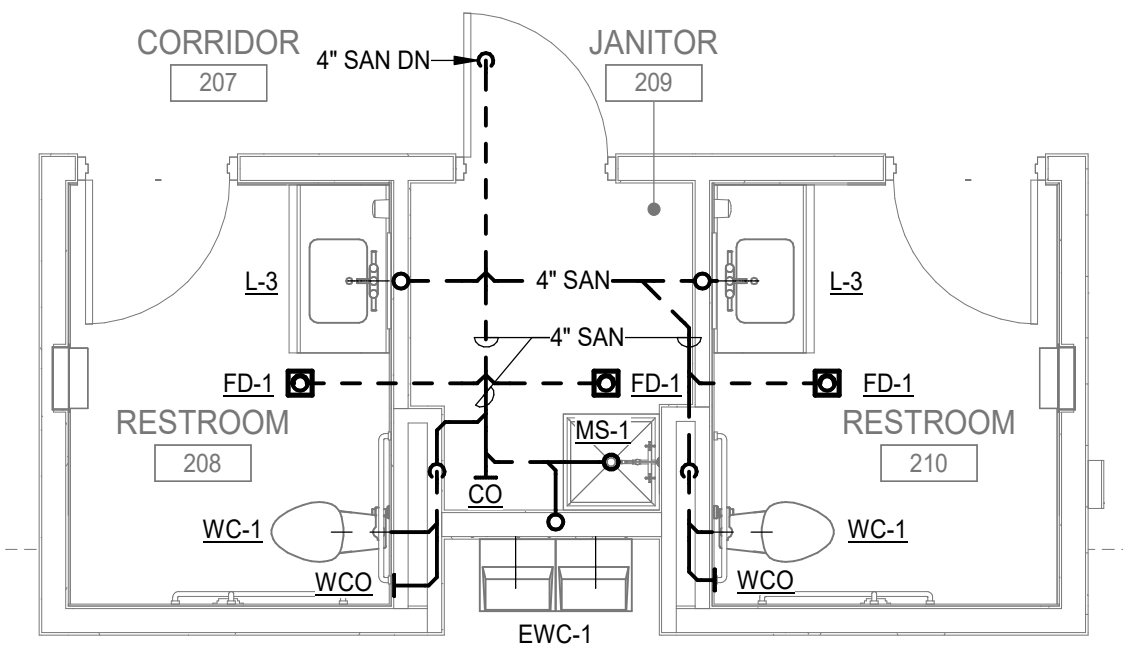
ENLARGED PLANS

P401

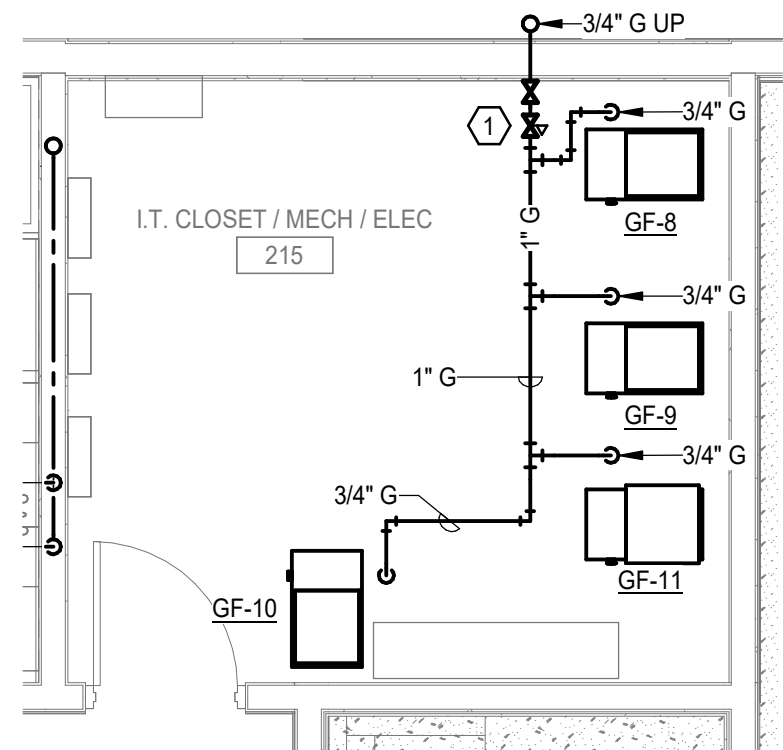
SHEET 125 OF 131



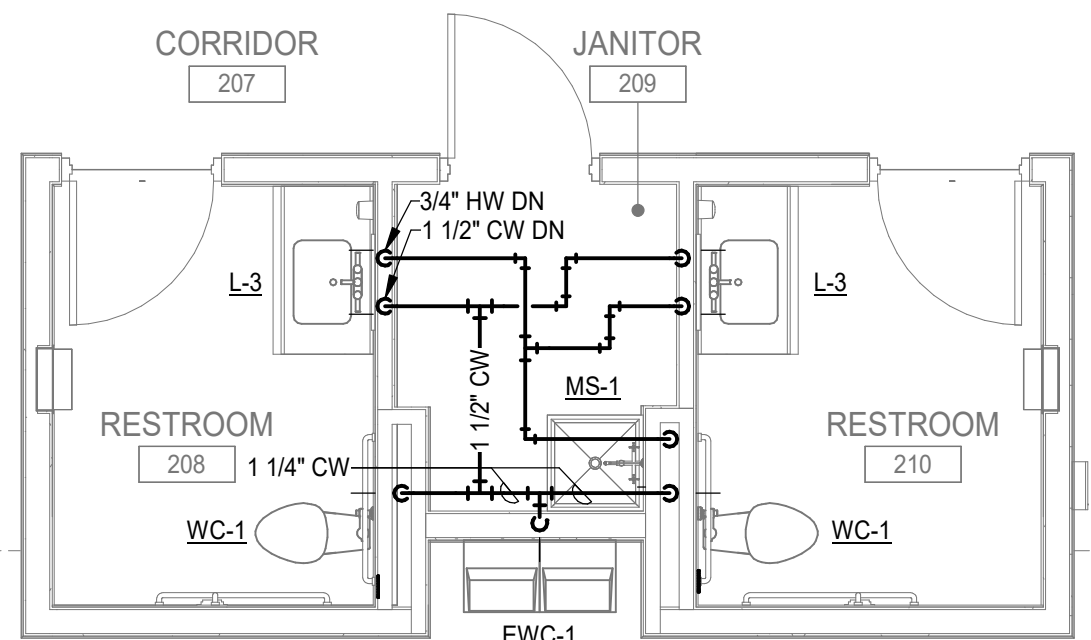
ENLARGED IT ROOM / STORAGE / MECH / ELEC 3
1/4" = 1'-0"



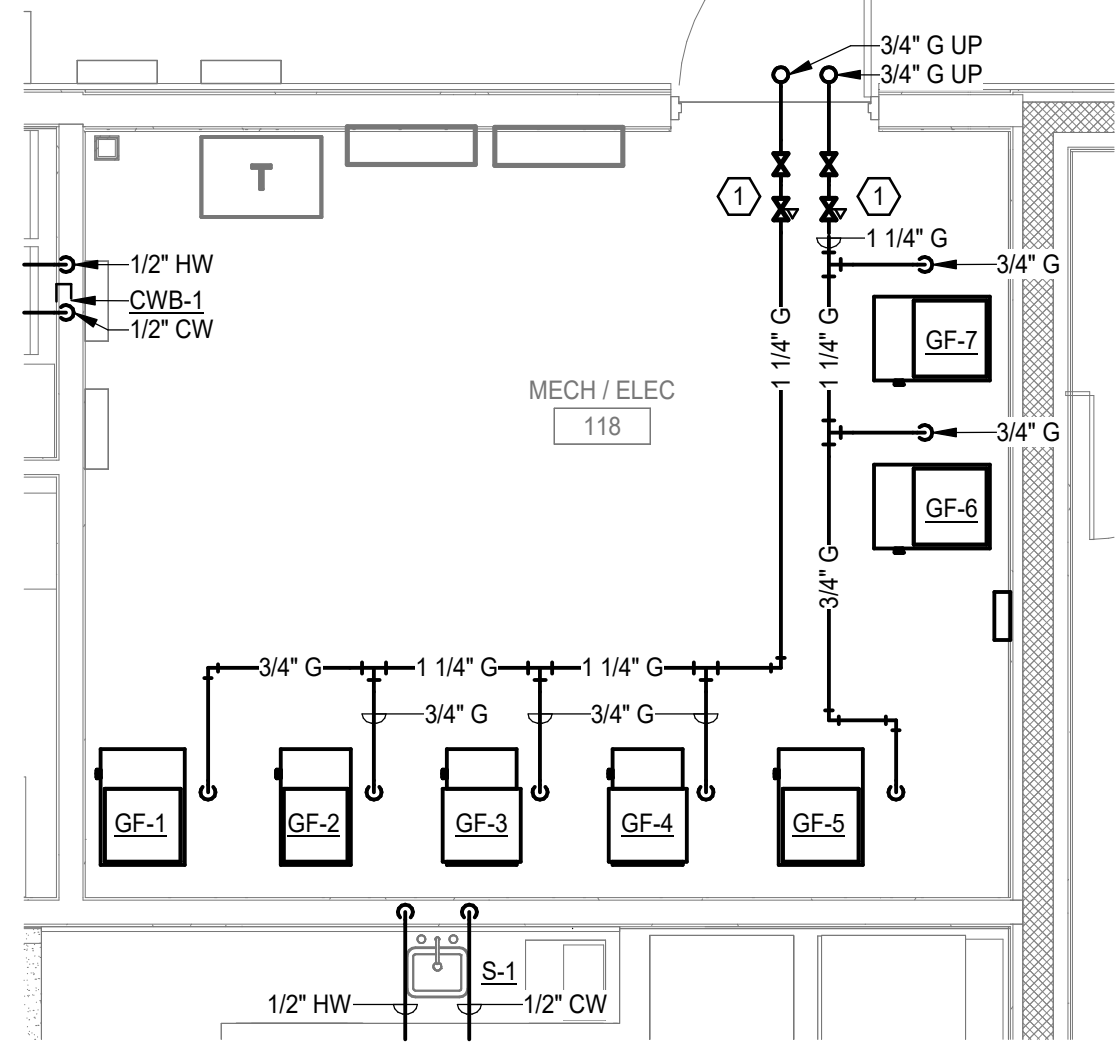
ENLARGED SANITARY PIPING SECOND FLOOR RESTROOMS 5
1/4" = 1'-0"



ENLARGED IT CLOSET / MECH / ELEC 2
1/4" = 1'-0"

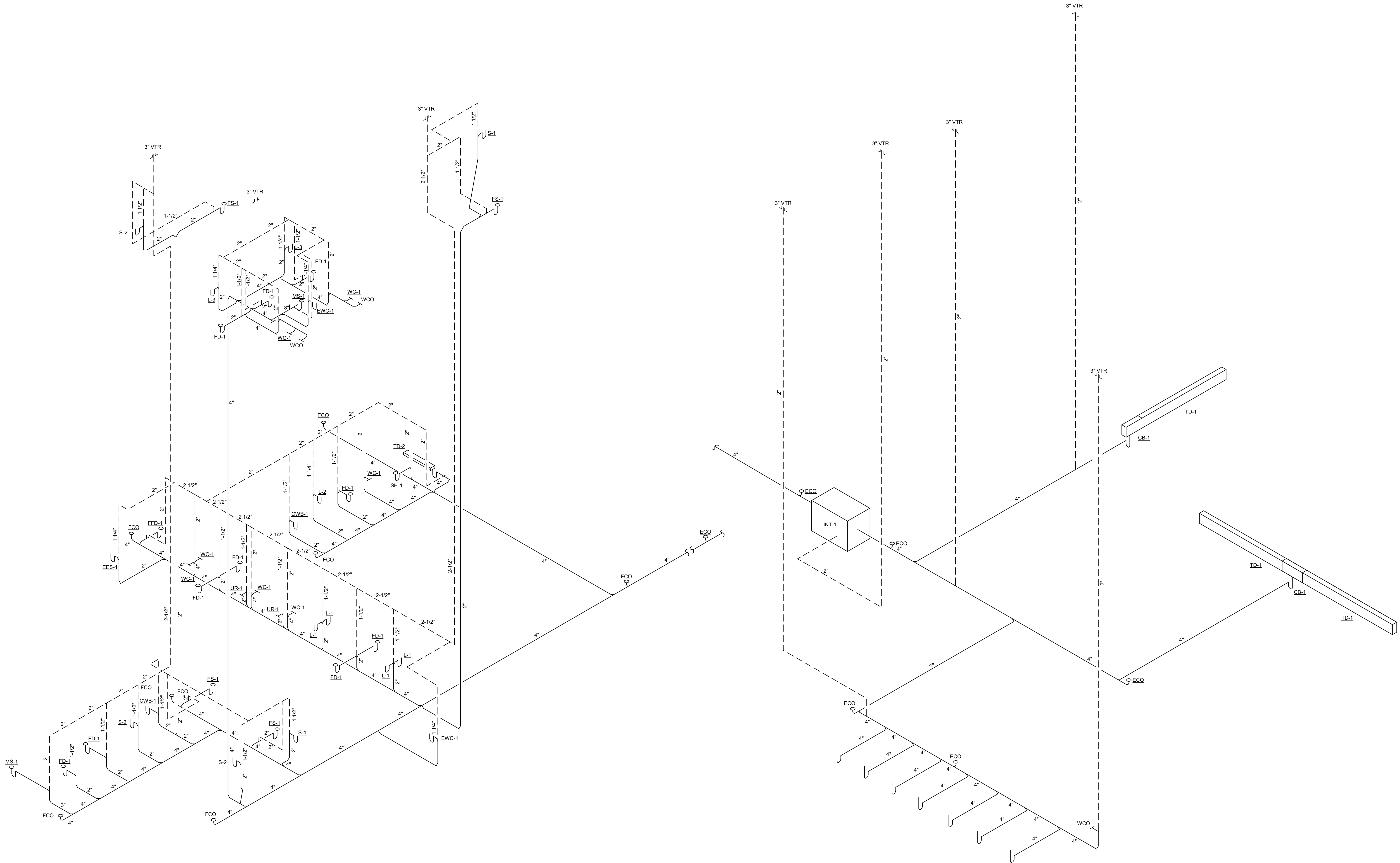


ENLARGED DOMESTIC WATER SECOND FLOOR RESTROOMS 4
1/4" = 1'-0"



ENLARGED MECH / ELEC 1
1/4" = 1'-0"

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- NOTES:
- A. VENTS THRU ROOF SHALL BE A MINIMUM OF 10'-0\" FROM ALL FRESH AIR INTAKES OR EDGE OF ROOF.
 - B. ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
 - C. ALL WASTE AND VENT PIPING BELOW GRADE SHALL BE 2\" MINIMUM.
 - D. REFER TO PLUMBING FIXTURE SCHEDULE FOR MINIMUM PIPE SIZES TO FIXTURES.
 - E. PIPING CONNECTION TO FIXTURES IS SHOWN DIAGRAMATICALLY. PROVIDE ALL FIXTURES WITH TRAPS AS REQUIRED BY CODE.

WASTE & VENT RISER
NOT TO SCALE 1



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KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT

LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	022-04268
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	NPB
DRAWN BY:	NPB
CHECKED BY:	KLC
APPROVED BY:	TWO
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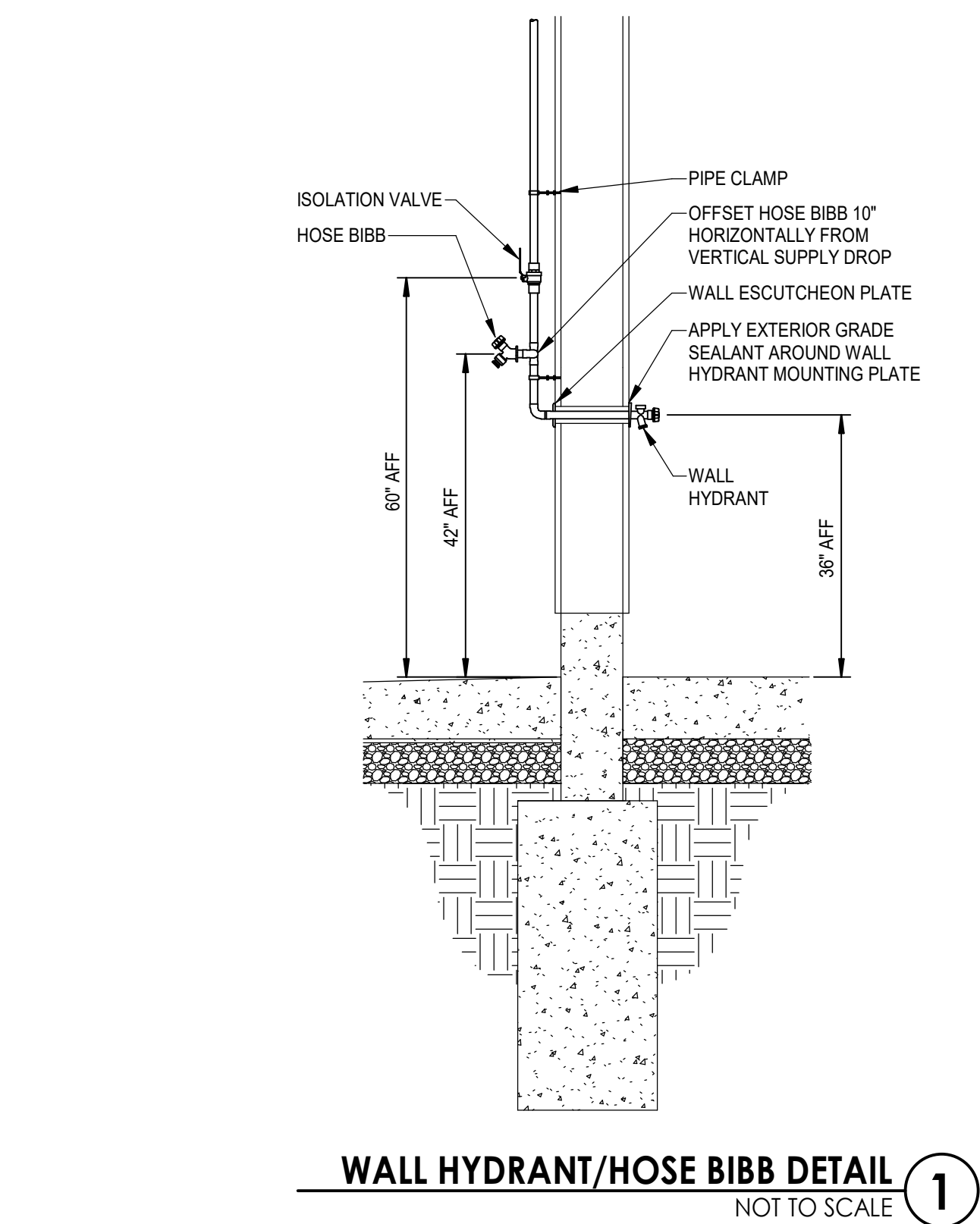
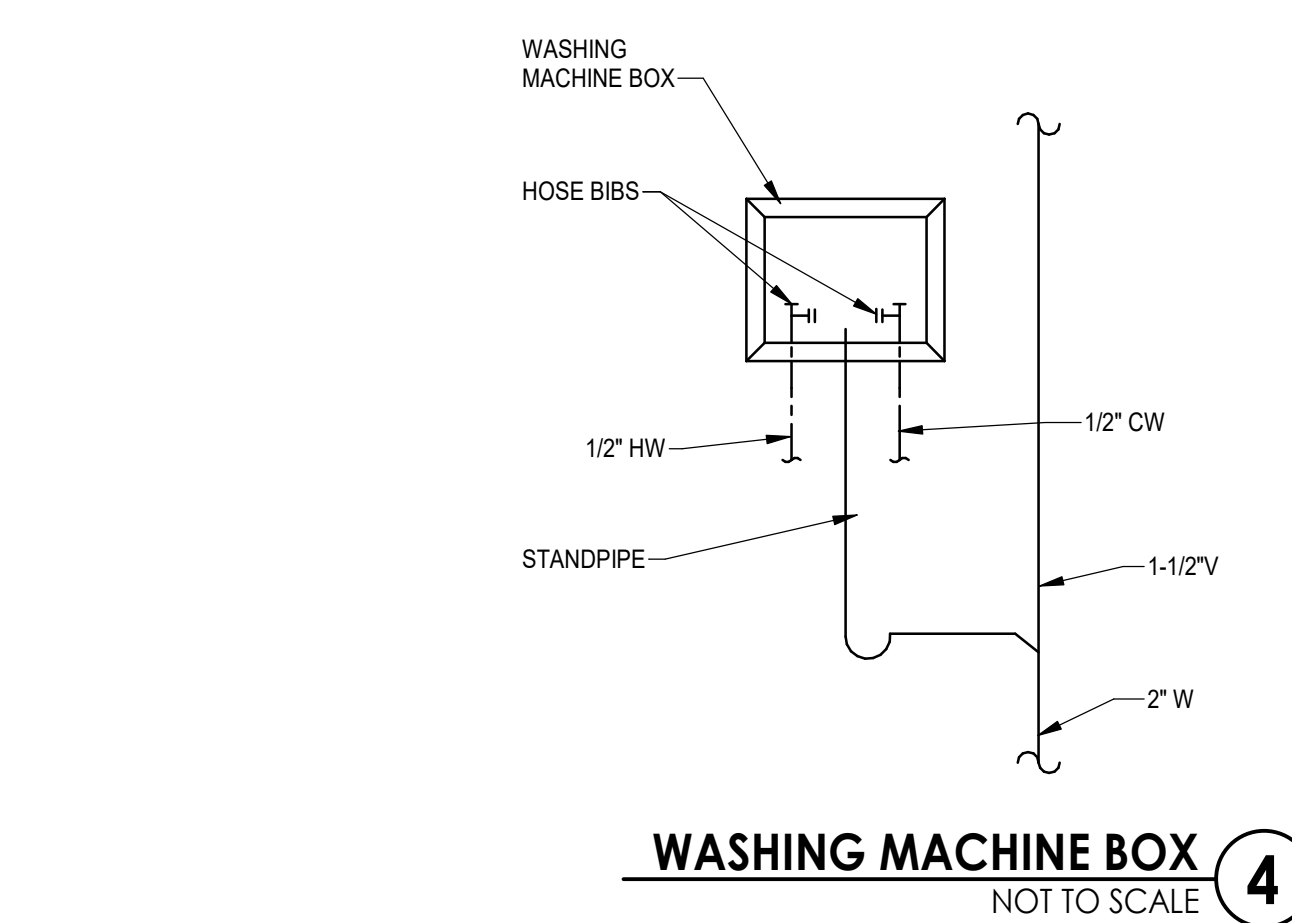
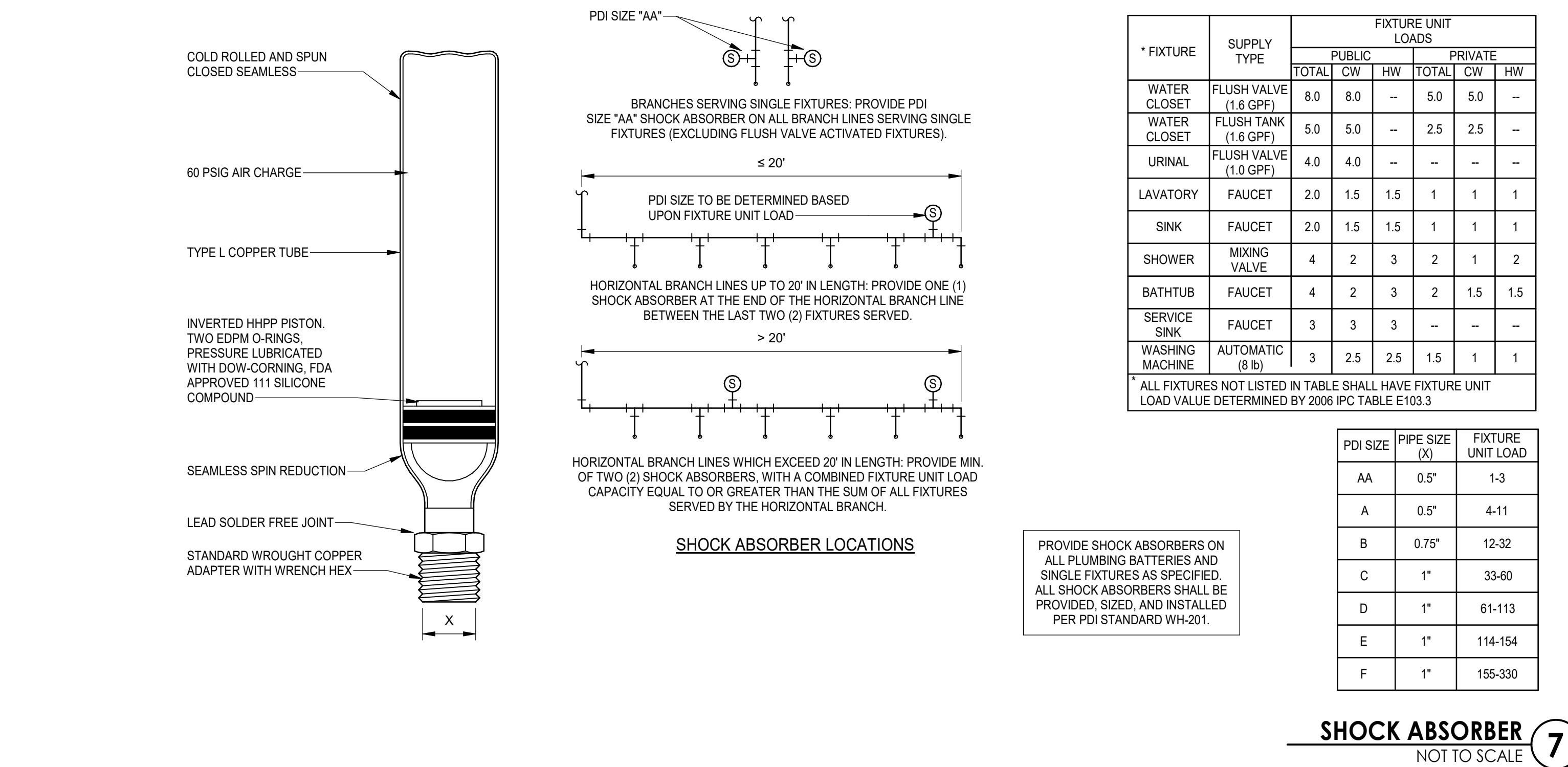
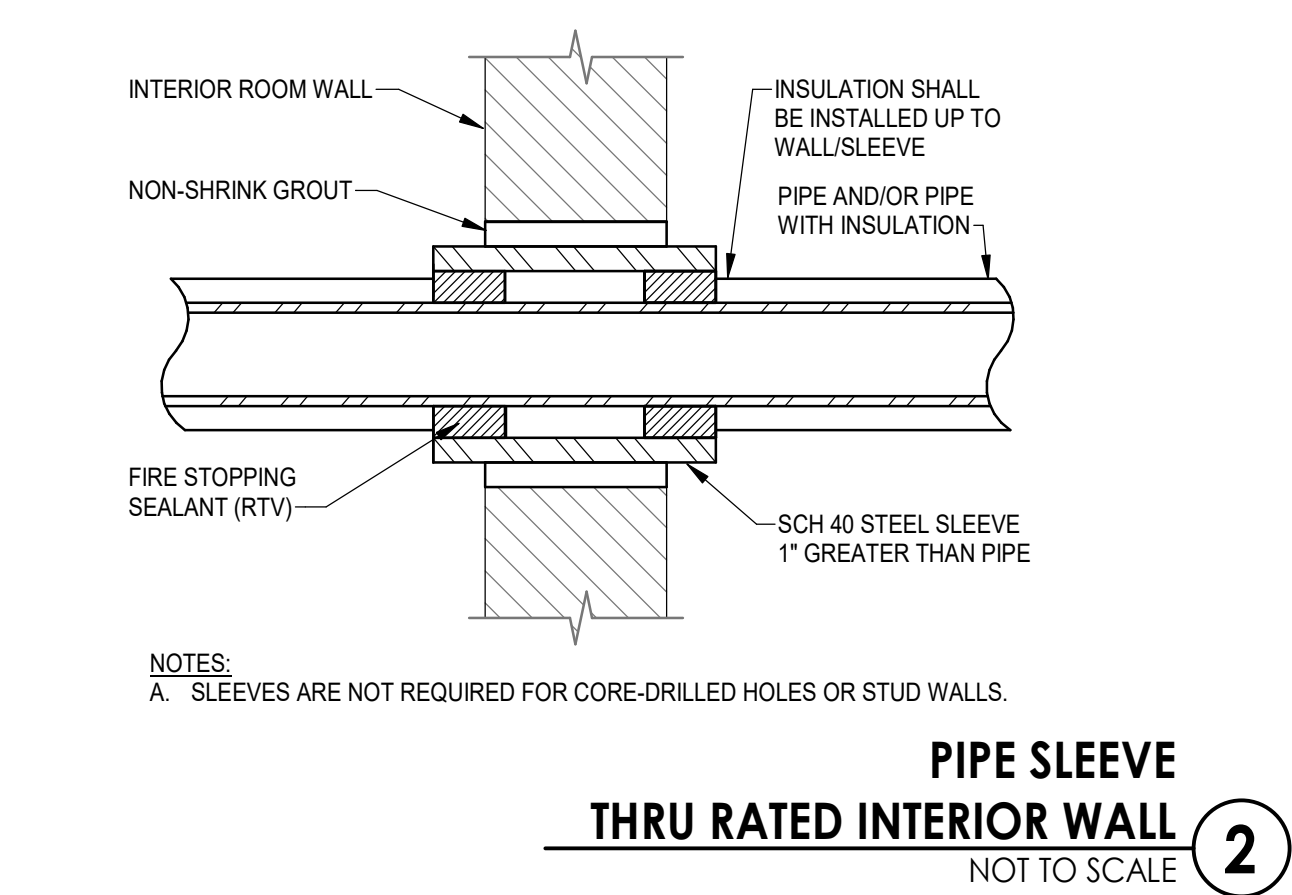
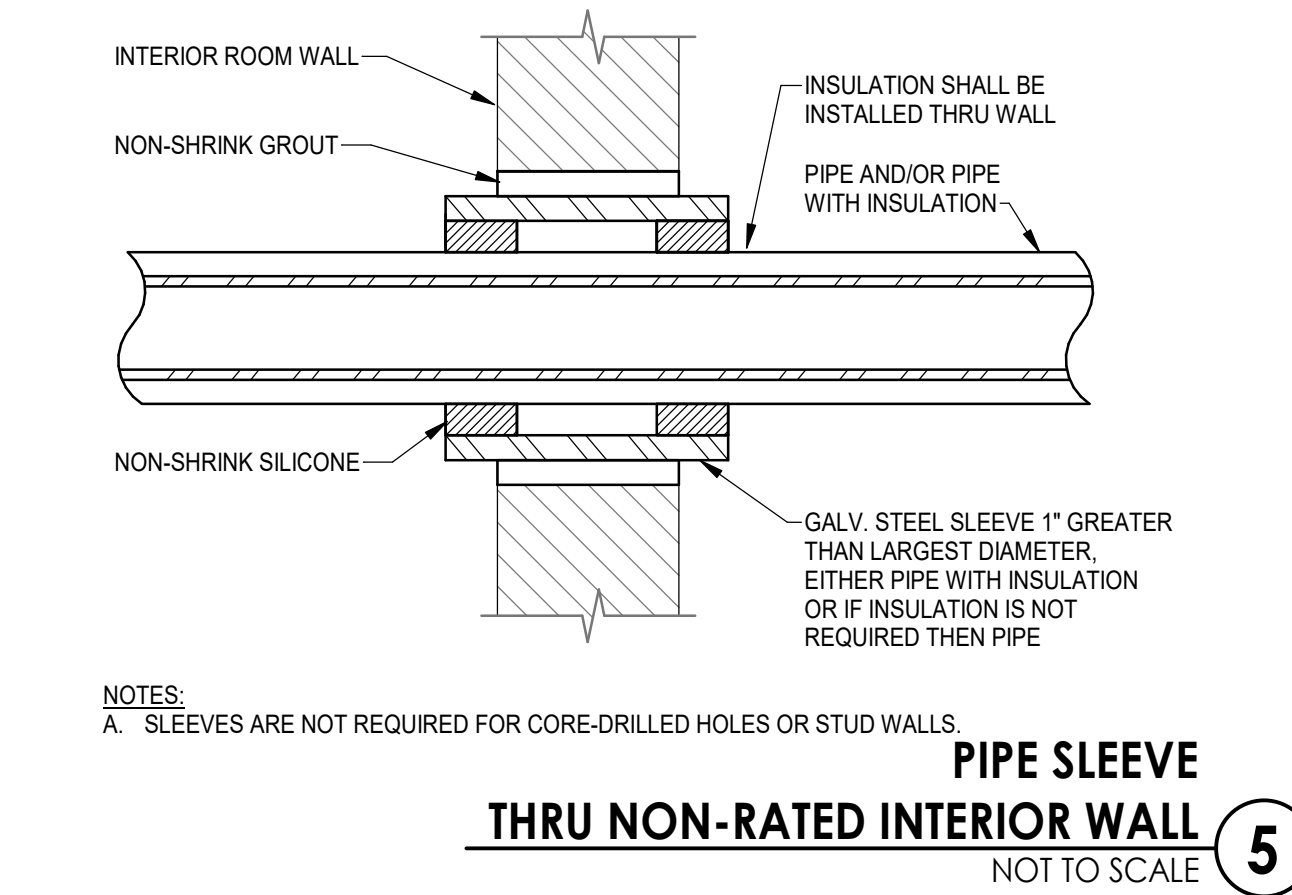
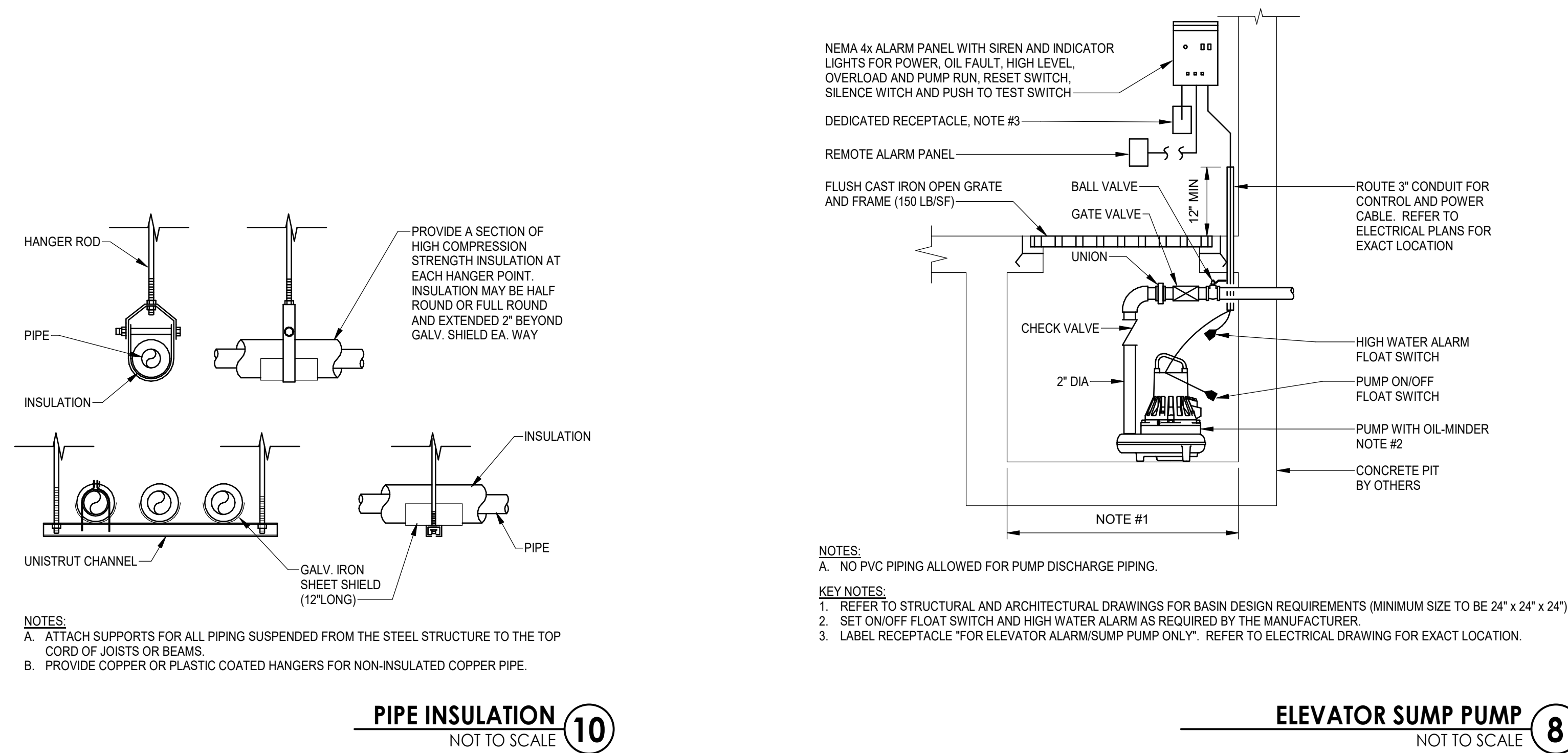
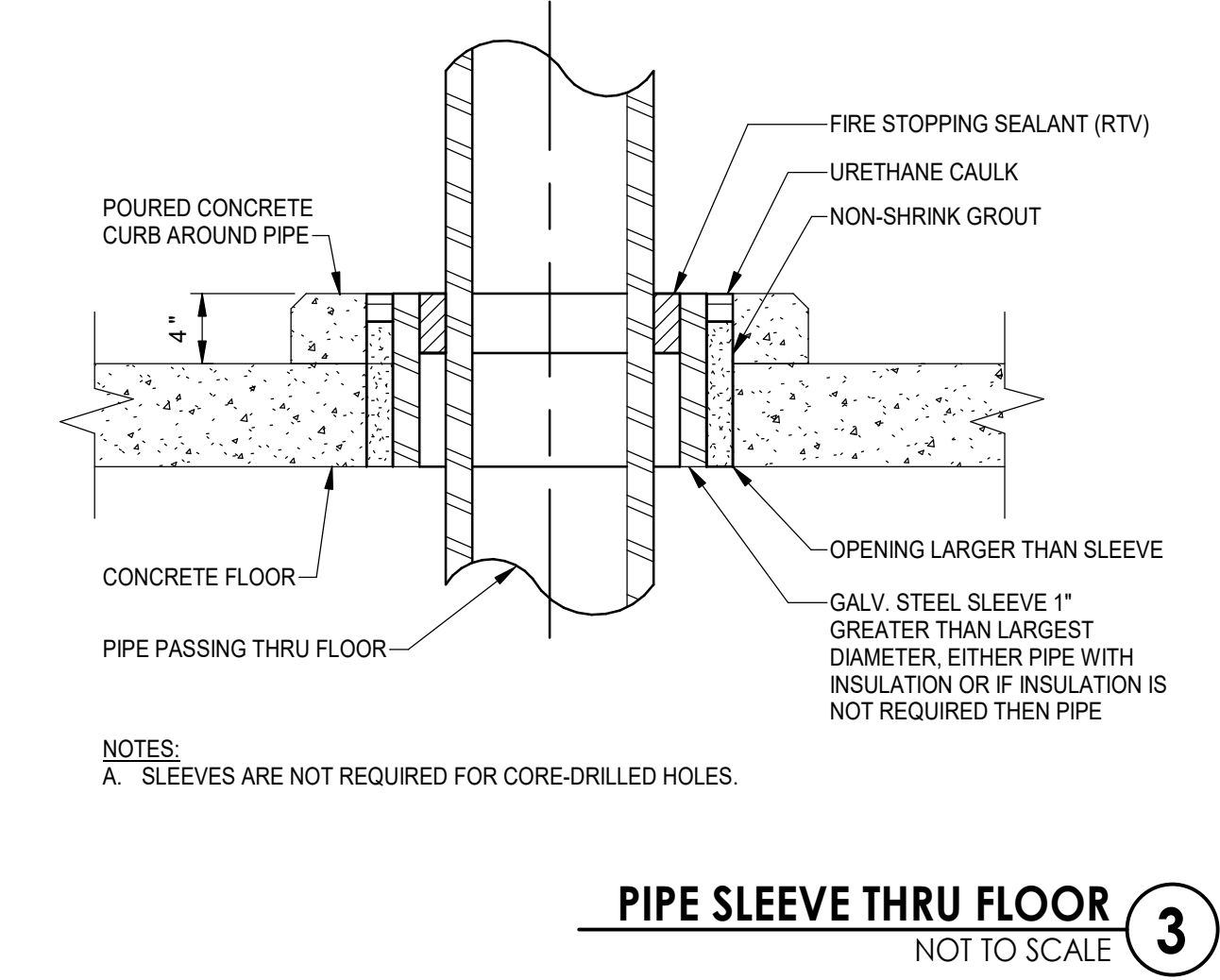
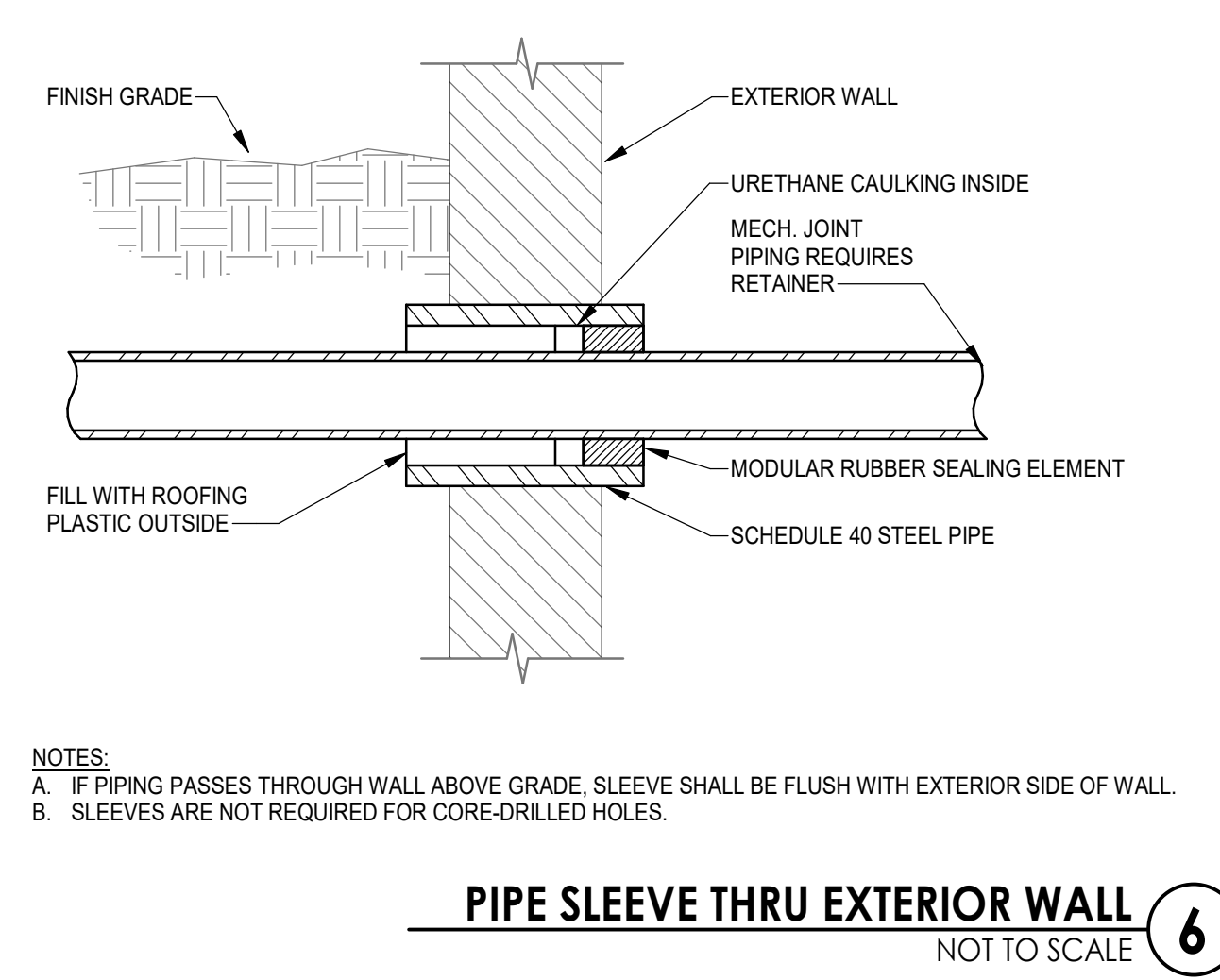
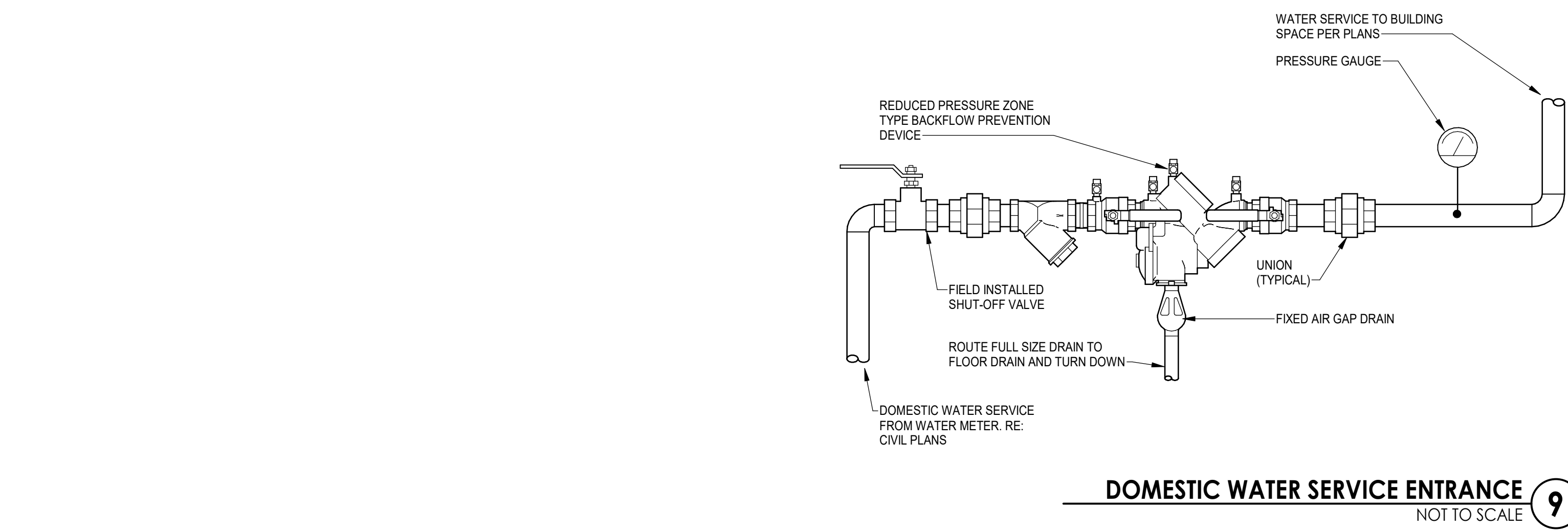
SHEET TITLE

DIAGRAMS, RISERS

P501

SHEET 126 OF 131

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1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
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DRAWN BY: NPB
CHECKED BY: KLC
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SHEET TITLE

PLUMBING DETAILS

P601

SHEET 127 OF 131

WATER HEATER SCHEDULE (GAS)

LABEL	LOCATION	MANUFACTURER	MODEL NO	EFFICIENCY (%)	STORAGE (GAL)	RECOVERY (GPH @ 100°F)	TEMP RISE (°F)	TEMP SETTING (°F)	FUEL TYPE	INPUT (MBH)	NOTES
GWH-1	115-JANITOR	A.O. SMITH	BTH-120	95	60	138	88	140	NG	120	ALL
NOTES: 1. PROVIDE POWERED ANODE ROD, HIGH LIMIT RESET, DRAIN VALVE, AND T&P RELIEF VALVE, AMTROL ST-5 EXPANSION TANK, AND CONCENTRIC TERMINATION KIT. 2. GLASS-LINED TANK WITH 160 PSI MAX WORKING PRESSURE. 3. INSTALL ON 4" CONCRETE HOUSEKEEPING PAD. 4. INSTALL THERMOMETER ON OUTLET OF HEATER SYSTEM. 5. INSTALL WITH MASTER MIXING VALVE SET TO 105°F, POWERS LFMM432 OR APPROVED EQUAL.											

BACKFLOW PREVENTER SCHEDULE

LABEL	MANUFACTURER	MODEL NO	LOCATION	TYPE	SERVES	BFP SIZE	DRAIN SIZE	LINE SIZE	NOTES
BFP-1	WATTS	LF90M1QT	HANGAR	REDUCED PRESSURE	DOM WATER	2"	2"	2"	ALL
NOTES: 1. PROVIDE WITH MANUFACTURER REQUIRED AIRGAP, EXTEND FULL SIZE DRAIN PIPING TO FLOOR. 2. PROVIDE WITH "Y" TYPE STRAINER. 3. PROVIDE WITH UNION END BALL VALVES ON ASSEMBLY.									

PUMP SCHEDULE

LABEL	MANUFACTURER	MODEL NO	SERVICE	GPM	HEAD	RPM	VOLTS	PH	HP (KW)	NOTES
RP-1	TACO	006E3	HW RECIRC	5.0	10	-	120	1	(44)	1
SP-1	STANCOR	SE-50A	ELEVATOR SUMP	50	25	-	120	1	1/2	2
NOTES: 1. PROVIDE WITH TIME CLOCK FOR OPERATION DURING OCCUPIED HOURS. DISCONNECT PROVIDED BY DIVISION 26 CONTRACTOR. 2. PROVIDE 120V HIGH LEVEL ALARM CONTROLLER INCLUDING NEMA 4X ENCLOSURE, FLOAT SWITCH, REMOTE AUDIBLE ALARM WITH TEST/SILENCE BUTTON, OIL MINDER, AND AUTO RESET. INSTALL CONTROLLER AND REMOTE ALARM WHERE SHOWN ON PLANS.										

PLUMBING FIXTURE SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	CONNECTIONS			
						WASTE	VENT	OW	HW
CB-1	TRENCH DRAIN CATCH BASIN	ABT	2900	19.6"x8.1" CATCH BASIN WITH PREFORMED CUTOFFS FOR POLYDRAIN CHANNELS ON BOTH ENDS. 4" PREFORMED PIPE OUTLET.		4"	2"	-	-
CWB-1	CLOTHES WASHER RECESSED OUTLET BOX	GUY GRAY	SSWB3	RECESSED, STAINLESS STEEL, CENTER DRAIN WASHING MACHINE OUTLET BOX. 2" DRAIN OPENING. 1/4" TURN BRASS SUPPLY BALL VALVES WITH WATER HAMMER ARRESTORS. INCLUDE SUPPORT BRACKETS.		2"	1-1/2"	1/2"	1/2"
ECO	EXTERIOR CLEANOUT	ZURN	Z1400-HD	ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND SQUARE TOP WITH ROUND SCORATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
EES-1	HAND WASH SINK WITH EYEFACE WASH	HAWS	7861	WALL MOUNTED, BARRIER-FREE HAND WASH SINK WITH PULLDOWN EYEFACE WASH. CONSTRUCTION TO BE 14 GAUGE TYPE 304 STAINLESS STEEL. 1/2 GPM LAMINAR FLOW, MOTION-ACTIVATED FAUCET, 3.7 GPM EYEFACE WASH.	PROVIDE WITH MIXING VALVE MODEL 9201EW.	1-1/2"	1-1/4"	1/2"	1/2"
ESE-1	EMERGENCY SHOWER AND EYE WASH	HAWS	8356WCC	BARRIER FREE COMBINATION SHOWER AND EYEFACE WASH WITH 10" STAINLESS STEEL SHOWERHEAD AND FULLY RECESSED STAINLESS STEEL EYEWASH RECEPTOR. SHOWERHEAD AND EYEWASH ACTIVATED BY PULL DOWN LEVER. 20 GPM SHOWER, 4.2 GPM EYEFACE WASH.	PROVIDE WITH MIXING VALVE MODEL 9201E. PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH GRID STRAINER.	2"	1-1/2"	1-1/4"	1-1/4"
EW-C1	ELECTRIC WATER COOLER W/ BOTTLE FILLER, TWO STATION ADA	ELKAY	LZSTL8WSLK	8-LEVEL, TWO STATION, WALL MOUNT WATER COOLER. 8 GPH AT 80°F AMBIENT. 370 WATTS. 5.0 FLA. SELF-CLOSING EASY-TOUCH CONTROLS ON THE FRONT. LEFT AND RIGHT OF UNIT. AND FLEX-GUARD SAFETY BUBBLER. 1.1 GPM LAMINAR FLOW BOTTLE FILLER. ELECTRIC SENSOR FOR TOUCHLESS ACTIVATION, MOUNTED AT ADA HEIGHT.	PROVIDE CHROME-PLATED COPPER SUPPLY STOPS, CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT (0.048" THICK TUBULAR BRASS WASTE TO WALL) AND WALL ESCUTCHEONS.	1-1/2"	1-1/4"	1/2"	-
FOO	FLOOR CLEANOUT	ZURN	Z1400	CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND POLISHED BRONZE SCORATED SECURED TOP, ADJUSTABLE TO FINISH FLOOR.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
FD-1	ROUND FLOOR DRAIN	ZURN	Z415B	CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE. WEEP HOLES. REVERSIBLE CLAMPING COLLAR. NICKEL BRONZE ADJUSTABLE STRAINER.	DIMENSIONS OF TOP STRAINER: 2" OUTLET WITH A 5" STRAINER, 3" OR 4" OUTLET WITH 8" STRAINER, 6" OUTLET WITH A 10" STRAINER. PROVIDE A GASKETED TRAP SEALER IN NECK OF FLOOR DRAIN BY SURE-SEAL OR EQUAL. VERIFY PIPE SIZES ON PLANS.	2"	(2" BELOW SLAB)	-	-
FFD-1	FLUSHING RIM FLOOR DRAIN	ZURN	Z300	CAST IRON BODY WITH INTEGRAL DOUBLE WALL TRAP. WHITE ACID RESISTANT EPOXY EXTERIOR AND INTERIOR. FLUSHING RIM TOP AND FLUSHING TRAP.	PROVIDE WITH SOLID HINGED TOP AND CLAMPING COLLAR.	4"	2"	3/4"	-
FPWH-1	EXPOSED FREEZE-PROOF WALL HYDRANT	WOODFORD	65	NON-FREEZE, SELF DRAINING TYPE WITH POLISHED BRASS FINISH. HOSE THREAD SPOUT, VACUUM BREAKER, AND REMOVABLE KEY.	PROVIDE WITH SPARE KEY FOR EACH HYDRANT PROVIDED.	-	-	3/4"	-
FS-1	SQUARE FLOOR SINK	ZURN	Z1901	12x12x6 DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM DUTY GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	PROVIDE WITH 1/2 GRATE AND SECURITY SCREWS.	2"	(2" BELOW SLAB)	-	-
HB-1	EXPOSED HOSE BIBB	WOODFORD	24	EXPOSED WALL HOSE BIBB WITH CHROME FINISH, HOSE THREAD SPOUT, VACUUM BREAKER, AND REMOVABLE KEY OPERATOR.	-	-	-	1/2"	-
IMB-1	ICE MAKER RECESSED OUTLET BOX	GUY GRAY	SSIB1AB	RECESSED, ICE MAKER BOX. 1/4" TURN BRASS SUPPLY BALL VALVE. STAINLESS STEEL PLATE. INCLUDE SUPPORT BRACKETS.	-	-	-	1/2"	-
INT-1	OIL INTERCEPTOR	ZURN	Z1188-250-HD	LARGE CAPACITY ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL WITH BRONZE CLEANOUT PLUG. VISIBLE DOUBLE WALL TRAP SEAL. REMOVABLE COMBINATION PRESSURE EQUALIZING LOW DEFLUENS Baffle AND SEDIMENT BUCKET, AND HORIZONTAL Baffle. COMPLETE WITH SECURED, GASKETED, NON-SKID COVER WITH REMOVABLE LIFT HANDLES AND FLOW CONTROL FITTING.	PROVIDE WITH EXTENSION COLLAR FOR COVER PLATES. COORDINATE REQUIRED LENGTH WITH INSTALLED DEPTH.	4"	2"	-	-
L-1	UNDER COUNTER MOUNTED LAVATORY	BRADELEY	LD-3010-WB-TR1	SOLID SURFACE COUNTERTOP WITH UNDERMOUNT LAVATORY. REFER TO ARCHITECT FOR SPECIFICATIONS.	PROVIDE WITH BRADLEY WB01 WASHBAR - REFER TO ARCHITECT FOR SPECIFICATIONS. PROVIDE WITH CHROME PLATED COPPER SUPPLIES WITH QUARTER-TURN ANGLE STOPS. PROVIDE CHROME PLATED CAST-BRASS TRAP WITH CLEANOUT, TRAP ARM EXTENSION TO WALL, AND WALL ESCUTCHEON. COVER EXPOSED COLD AND HOT SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD. TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS, AND STOP VALVE LOCKING ACCESS COVER. PROVIDE 24V TRANSFORMER FOR FAUCET.	1-1/2"	1-1/4"	1/2"	1/2"
L-2	LAVATORY WALL HUNG	KOHLER	"SONO" K-205A-N	RECTANGULAR WALL MOUNTED, ASME A112.19.2 COMPLIANT VITREOUS CHINA LAVATORY WITH 20"x18" RECTANGULAR BOWL, AND MOUNTING KIT. REFER TO ARCHITECT FOR MOUNTING HEIGHT. FINISH TO BE WHITE.	PROVIDE WITH MANUAL OPERATED FAUCET DELTA MODEL 2559. 8.5 GPM FAUCET WITH MOUNTING HARDWARE. PROVIDE WITH CHROME PLATED FINISH, GRID STRAINER, ANTI-SCALD FEATURE. PROVIDE WITH CHROME PLATED COPPER SUPPLIES WITH QUARTER-TURN ANGLE STOPS. PROVIDE CHROME PLATED CAST-BRASS TRAP WITH CLEANOUT, TRAP ARM EXTENSION TO WALL, AND WALL ESCUTCHEON. COVER EXPOSED COLD AND HOT SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD. TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS, AND STOP VALVE LOCKING ACCESS COVER. PROVIDE 24V TRANSFORMER FOR FAUCET.	1-1/2"	1-1/4"	1/2"	1/2"
L-3	LAVATORY WALL HUNG	BRADELEY	LD-3010-S53-3300	SOLID SURFACE COUNTERTOP WITH UNDERMOUNT LAVATORY. REFER TO ARCHITECT FOR SPECIFICATIONS.	PROVIDE WITH BRADLEY S53-3300 FAUCET - REFER TO ARCHITECT FOR SPECIFICATIONS. PROVIDE WITH CHROME PLATED COPPER SUPPLIES WITH QUARTER-TURN ANGLE STOPS. PROVIDE CHROME PLATED CAST-BRASS TRAP WITH CLEANOUT, TRAP ARM EXTENSION TO WALL, AND WALL ESCUTCHEON. COVER EXPOSED COLD AND HOT SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD. TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS, AND STOP VALVE LOCKING ACCESS COVER.	1-1/2"	1-1/4"	1/2"	1/2"
MS-1	MOP SINK	FIAT	MSB 2424	24"x24"x10" MOLDED STONE BASIN WITH 3" DRAIN OUTLET WITH STRAINER.	PROVIDE WITH 30" FLEXIBLE RUBBER HOSE AND WALL BRACKET. FAUCET MODEL 3004A, CHROME-PLATED, WALL MOUNTED, WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT.	3"	2"	1/2"	1/2"
S-1	SINGLE BOWL SINK	ELKAY	ECTRU17179T	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, 18 GAUGE TYPE 304 NICKEL BEARING STAINLESS STEEL SINGLE BOWL SINK WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 18"x18" BOWL, 9" BOWL DEPTH, RADIUS CORNERS, REAR CENTER DRAIN OPENING, AND MOUNTING CLIPS. COORDINATE FAUCET HOLE QUANTITY AND SPACING WITH FAUCET SPECIFIED. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR.	PROVIDE WITH DELTA FAUCET MODEL 9959-LS-DST - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, DECK ESCUTCHEON, BRASS VALVE BODIES, QUARTER TURN WASHLESS CERAMIC DISC VALVES, 5-1/2" MULTI-SWIVEL SWING PULL DOWN SPOUT, AND 1.8 GPM AERATOR. PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH GRID STRAINER DRAIN. PROVIDE WITH 3/4 HP GARBAGE DISPOSAL. DO NOT PROVIDE GARBAGE DISPOSAL FOR SCHOOL DISTRICT SPACES.	2"	1-1/2"	1/2"	1/2"
S-2	DOUBLE BOWL SINK	ELKAY	ECTRUJ31179T	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, 18 GAUGE TYPE 304 NICKEL BEARING STAINLESS STEEL DOUBLE BOWL SINK WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 17"x14-1/2" BOWLS, 9" BOWL DEPTH, RADIUS CORNERS, REAR CENTER DRAIN OPENING, AND MOUNTING CLIPS. COORDINATE FAUCET HOLE QUANTITY AND SPACING WITH FAUCET SPECIFIED. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR.	PROVIDE WITH DELTA FAUCET MODEL 9159-LS-DST - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, DECK ESCUTCHEON, BRASS VALVE BODIES, QUARTER TURN WASHLESS CERAMIC DISC VALVES, 5-1/2" MULTI-SWIVEL SWING PULL DOWN SPOUT, AND 1.8 GPM AERATOR. PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH 3/4 HP GARBAGE DISPOSAL.	2"	1-1/2"	1/2"	1/2"
S-3	SINGLE BOWL SINK KIT	ELKAY	CHSB1716C	WALL MOUNTED, ASME A112.19.3 COMPLIANT, 20 GAUGE TYPE 304 NICKEL BEARING STAINLESS STEEL SINGLE BOWL SINK WITH SATIN FINISH ON EXPOSED SURFACES. SINK SHALL HAVE 12"x6-1/4" BOWL, 6" BOWL DEPTH, RADIUS CORNERS, AND CENTER DRAIN OPENING.	PROVIDE WITH ELKAY FAUCET MODEL LKB400 - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, BRASS VALVE BODIES, QUARTER TURN WASHLESS CERAMIC DISC VALVES, 3-1/2" SPOUT, AND 2.2 GPM AERATOR. PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON.	2"	1-1/2"	1/2"	1/2"
SH-1	ADA TRANSFER SHOWER	EVERFAB	S3839A	ONE-PIECE TRANSFER TYPE SHOWER STALL WITH CENTER DRAIN. COORDINATE SEAT LOCATION WITH ARCHITECTURAL DRAWINGS.	PROVIDE WITH SOLID BRASS TEMPERATURE CONTROL TRIM MOEN MODEL T8346 WITH ANTI-SCALD SAFETY STOP. LEVER HANDLE, POLISHED CHROME FINISH. THERMOSTATIC MIXING VALVE WITH SHAPE MEMORY ALLOY, INTEGRATED SERVICE STOPS, 1/2" NPT CONNECTIONS, AND CORROSION RESISTANCE. TRIM SHALL BE ASME A112.18.1 AND ADA COMPLIANT. PROVIDE WITH SINGLE SPRAY SHOWERHEAD WITH HOSE, 30" SLIDE BAR, AND CAULKLESS BRASS DRAIN WITH STRAINER. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF ALL COMPONENTS.	-	-	1/2"	1/2"
TD-1	TRENCH DRAIN	ABT	POLYDRAIN	6" WIDE, 4" THROAT, PRE-SLOPED MODULAR FIBER REINFORCED POLYMER CHANNELS. SEE PLANS FOR LENGTH REQUIRED.	PROVIDE WITH CLASS F DUCTILE IRON SLOTTED GRATE.	4"	2"	-	-
TD-2	TRENCH DRAIN	ZURN	Z886	6" WIDE, 4" THROAT, PRE-SLOPED MODULAR FIBER REINFORCED POLYMER CHANNELS. SEE PLANS FOR LENGTH REQUIRED.	PROVIDE WITH CLASS C DUCTILE IRON SLOTTED GRATE.	4"	2"	-	-
UR-1	URINAL WALL MOUNTED FLUSH VALVE	AMERICAN STANDARD	"WASH-BROOK" 615	WHITE, VITREOUS CHINA, WASHOUT TYPE, WALL MOUNTED, 3/4" TOP SPUD, STRAINER, WALL OUTLET, 1.0 GPF.	INCLUDE HEAVY DUTY FIXTURE CARRIER. PROVIDE WITH ASSE 1037 COMPLIANT 1.0 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF SLOAN ECOS 8186-1.0. ADA COMPLIANT, WITH CHROME-PLATED EXPOSED PIECES.	2"	1-1/2"	1"	-
WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE	AMERICAN STANDARD	"APWALL" 2834	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, 1.6 GPF SIPHON-JET FLUSH WATER CLOSET WITH ELONGATED BOWL, 1-1/2" TOP SPUD, AND 2-1/8" TRAPWAY. FINISH SHALL BE WHITE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.	PROVIDE WITH WHITE OPEN FRONT ELONGATED SEAT. LESS COVER. PROVIDE WITH ASSE 1037 COMPLIANT 1.6 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF SLOAN ECOS 858 8111-1.6 WITH 1" ANGLE STOP. 1-1/2" VACUUM BREAKER. UNIT SHALL INCLUDE A DRAINAGE VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 24 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED.	4"	2"	1 1/4"	-
WCO	WALL CLEANOUT	ZURN	Z1446	CLEANOUT TEE, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT TAPERED THREAD BRONZE PLUG, POLISHED STAINLESS STEEL COVER WITH SECURING SCREW.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-

NOTES:

- VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.
- SIZES LISTED INDICATE MIN. SIZE ONLY, SEE PLUMBING RISERS AND FLOOR PLANS FOR LARGER SIZES.



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

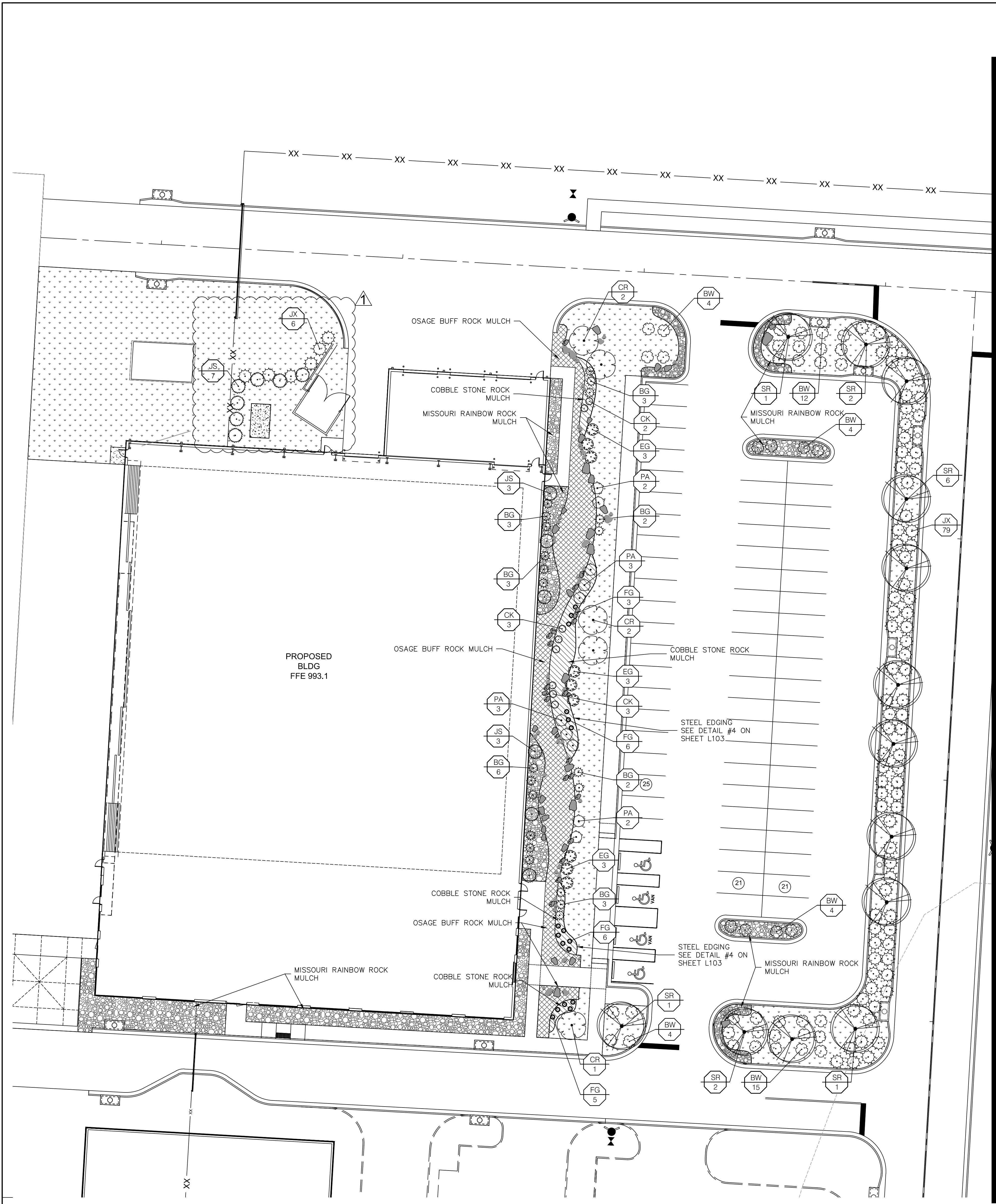
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SHEET TITLE

PLUMBING
SCHEDULES

P701

SHEET 128 OF 131



LEE'S SUMMIT MUNICIPAL AIRPORT - LANDSCAPE CALCULATIONS															
BUILDING COVERAGE (SF)	PARKING SPACES	LANDSCAPE ISLANDS AREA (SF)	PARKING LOT AREA (SF)	PARKING AREA LANDSCAPE ISLAND % (5% MIN.)	R/W LENGTH (LF)		(1) LANDSCAPE STRIP BETWEEN PARKING/LOADING AREA AND R/W	(1) STREET FRONTAGE TREES	(2) STREET FRONTAGE SHRUBS	(3) OPEN YARD AREA PROVIDED (SF)	(3A) OPEN YARD AREA TREES	(3B) OPEN YARD AREA SHRUBS	(4A) BUFFER TREES: DECIDUOUS / ORNAMENTAL / EVERGREEN	(4B) BUFFER SHRUBS	(5) PARKING LOT SCREENING SHRUBS
42,400	42	6,015	31,845	18.89%	N/A	REQUIRE PROVIDE	N/A	N/A	N/A	18,432	4	7	N/A	N/A	79
							N/A	N/A	N/A		5	63	N/A	N/A	79

LANDSCAPE REQUIREMENTS DESCRIPTIONS												
(1) 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' WIDE, PLANTED WITH 1 TREE PER 30 LF OF STREET												
(2) ANY PARKING OR LOADING AREA LANDSCAPE STRIP SHALL BE PLANTED WITH ONE (1) SHRUB FOR EVERY 20 LF OF STREET FRONTAGE												
(3A) IN ADDITION TO STREET FRONTAGE TREES, ONE (1) TREE SHALL BE PROVIDED FOR EVERY 5,000 SF OF OPEN YARD AREA												
(3B) OPEN YARD AREAS SHALL BE LANDSCAPED WITH TWO (2) SHRUBS PER 5,000 SF OF TOTAL LOT AREA												
(4) A 20' WIDE BUFFER SCREEN SHALL BE PROVIDED PER PLAN, IN THE FORM OF (4A) 1 SHADE TREE PER 1,000 SF, 1 ORNAMENTAL TREE PER 500 SF, 1 EVERGREEN TREE PER 500, AND (4B) 1 SHRUB PER 500 SF												
(5) A HEDGE CONSISTING OF AT LEAST 12 SHRUBS PER 40 LINEAR FEET												

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
	CR	5	COTINUS COGGYGRIA 'ROYAL PURPLE' / ROYAL PURPLE SMOKE TREE	3" CAL
	JS	13	JUNIPERUS CHINENSIS 'SPARTAN' / SPARTAN JUNIPER	8' HT
	SR	13	SYRINGA RETICULATA / JAPANESE TREE LILAC	3" CAL

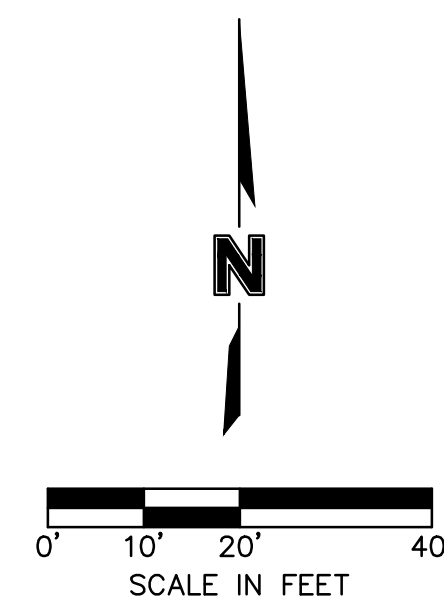
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
	BW	43	BUXUS MICROPHYLLA JAPONICA 'WINTER GEM' / WINTER GEM JAPANESE BOXWOOD	3 GAL
	BG	22	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD	3 GAL
	EG	9	EUONYMUS FORTUNEI 'EMERALD GAIETY' / EMERALD GAIETY WINTERCREEPER	3 GAL
	JX	85	JUNIPERUS X 'GREY OWL' / GREY OWL JUNIPER	3 GAL

GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
	CK	8	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	2 GAL
	FG	17	FESTUCA GLAUCA / BLUE FESCUE	2 GAL
	PA	10	PENNISETUM ALOPECUROIDES / FOUNTAIN GRASS	2 GAL

GROUNDCOVERS

	3-6" MISSOURI RAINBOW ROCK	4,522 SF
	TURF SOD DROUGHT TOLERANT BLEND	18,134 SF
	1-3" OSAGE BUFF	4,784 SF
	4-8" COBBLESTONE ROCK	1,811 SF
	COBBLESTONE BOULDERS	VARY

- NOTES:
1. ALL DISTURBED AREA NOT OTHERWISE SPECIFIED WITH GROUNDCOVER SHALL BE PLANTED WITH TURF SEED – DROUGHT TOLERANT DWARF FESCUE BLEND.
 2. PLANTING BEDS AND TREE PLANTING AREAS SHALL RECEIVE MISSOURI RAINBOW ROCK AT A DEPTH OF 3" WITH SHOVEL-CUT EDGE OR STEEL EDGING AS CALLED OUT ON PLAN.
 3. COMPLETE COVERAGE IRRIGATION SHALL BE PROVIDED BY CONTRACTOR FOR ALL TURF AND MULCHED PLANTING AREAS, REFER TO HATCHING IN SCHEDULE. IRRIGATION PLANS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
 4. AREAS OF TURF SEED PLANTED ON SLOPES EXCEEDING 4:1 (SEE GRADING PLANS) SHALL BE INSTALLED WITH AN EROSION CONTROL MEASURERS PER MANUFACTURER'S SPECIFICATIONS.
 5. QUANTITIES LISTED IN THE PLANT LIST SCHEDULE ARE FOR ESTIMATES ONLY. TREES, SHRUBS, AND GROUND COVER OF CONTRACT QUANTITIES SHALL BE THE NUMBER OF ITEMS SHOWN ON THE DRAWINGS.
 6. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE COVERING THE WORK. ANY DIFFERENCE IN QUANTITIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
 7. CONTRACTOR SHALL REFER TO ENGINEERING DRAWINGS FOR ANY AND ALL EXISTING AND/OR PROPOSED UTILITIES. IF THERE ARE ANY DISCREPANCIES, CONFLICTS AND/OR DEVIATIONS BETWEEN THE LANDSCAPE DRAWINGS AND THE EXISTING OR PROPOSED CONDITIONS, THE CONTRACTOR IS TO CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.
 8. ALL UNDERGROUND UTILITIES ARE TO BE FIELD-VERIFIED PRIOR TO COMMENCEMENT OF WORK.
 9. LANDSCAPE CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF SEED, SOIL, AND MULCH, AND REPRESENTATIVE PHOTOS OF TREES AND SHRUBS, TO LANDSCAPE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK. SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT.
 10. INSTALLATION OF LANDSCAPING SHALL TAKE PLACE DURING EITHER THE SPRING (MARCH 15 – JUNE 15) OR FALL (SEPTEMBER 15–OCTOBER 15) PLANTING SEASON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
 11. IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING OF TREES OR SHRUBS, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY. NEW LOCATIONS MAY BE SELECTED BY LANDSCAPE ARCHITECT OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTIONS. PROCEED WITH WORK ONLY AFTER APPROVAL OF LANDSCAPE ARCHITECT.
 12. LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
 13. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
 14. BACKFILL ALL PLANTING BEDS TO A MINIMUM 12-INCH DEPTH WITH PLANTING SOIL MIX. PLANTING SOIL MIX SHALL CONSIST OF ONE (1) PART PERLITE, ONE (1) PART PEAT MOSS, AND TWO (2) PARTS CLEAN LOAM TOPSOIL. THOROUGHLY MIX PLANTING SOIL COMPONENTS PRIOR TO PLACEMENT. ALL LANDSCAPE AREAS SHALL BE UNIFORMLY GRADED SO THAT FINISHED SURFACES CONFORM TO THE TYPICAL SECTIONS AND PROPOSED GRADES SHOWN. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED AND FREE FROM IRREGULAR SURFACE DRAINAGE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE FINISH GRADE AND SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS.
 15. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING AND GENERAL HEALTH OF ALL PLANT MATERIALS UNTIL FINAL ACCEPTANCE. ANY MATERIAL WHICH DIES PRIOR TO ACCEPTANCE OF WORK SHALL BE PROMPTLY REMOVED AND REPLACED.
 16. LANDSCAPE BEDS SHALL BE FREE OF WEEDS AND VOLUNTEER PLANT MATERIAL.
 17. LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLACEMENTS PROMPTLY UNDER THIS GUARANTEE (AS PER DIRECTION OF OWNER).



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

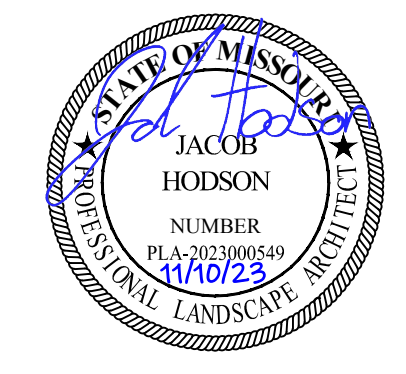


1627 MAIN STREET, SUITE 100
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1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



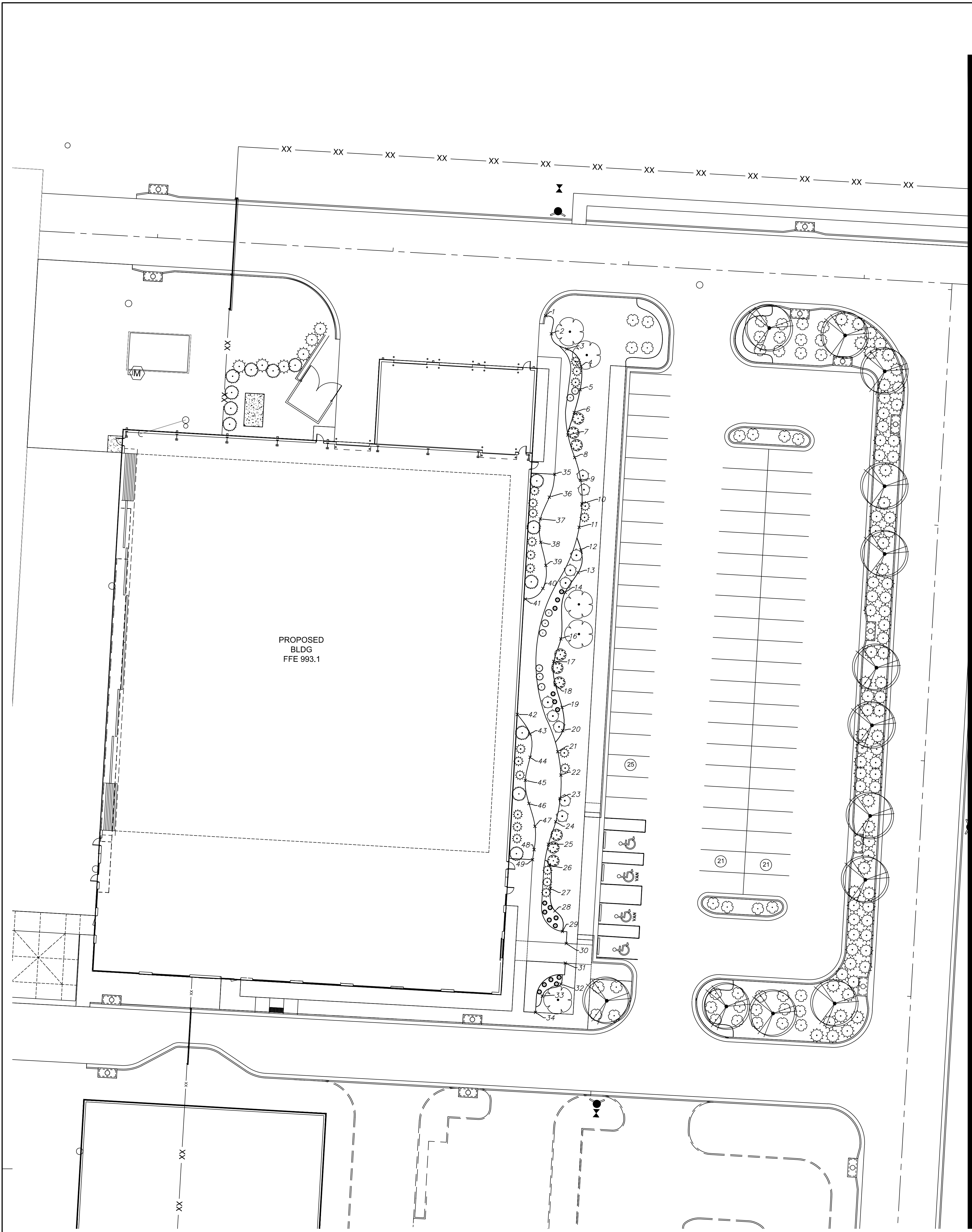
09-29-2023

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
	11/10/23	PER CITY COMMENTS
PROJECT NO: 022-04268		
CAD DWG FILE: Lee's Summit - Hangar 2.DWG		
DESIGNED BY: JIH		
DRAWN BY: OEM		
CHECKED BY: JIH		
APPROVED BY: JIH		
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SHEET TITLE
OVERALL
LANDSCAPE PLAN

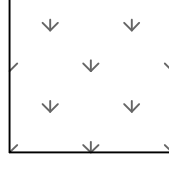
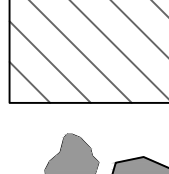
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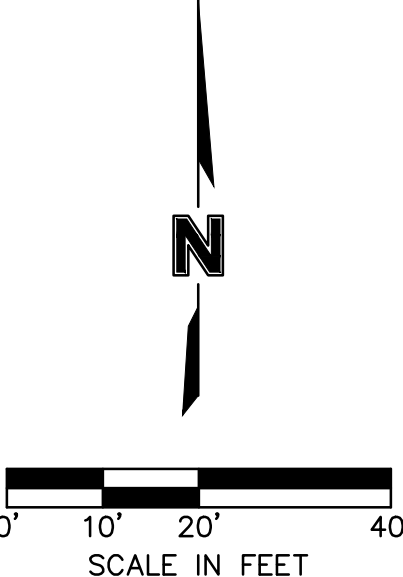
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POINT TABLE			POINT TABLE			POINT TABLE		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
1	1018274.4322	2825988.4551	21	1018089.6708	2825993.5183	41	1018154.3314	2825979.8244
2	1018266.7673	2825990.8330	22	1018079.7709	2825994.8492	42	1018105.4908	2825976.3872
3	1018260.3359	2825997.3710	23	1018069.7860	2825994.5620	43	1018097.1620	2825981.8336
4	1018253.0186	2826003.4178	24	1018059.9789	2825992.6644	44	1018087.3351	2825981.8131
5	1018243.0910	2826003.0136	25	1018050.4784	2825989.5601	45	1018077.5618	2825979.7793
6	1018233.4166	2826000.5044	26	1018041.5864	2825989.8944	46	1018067.7438	2825981.3139
7	1018223.8840	2825997.8283	27	1018031.7376	2825990.4086	47	1018058.0894	2825983.8642
8	1018214.3296	2826000.7336	28	1018022.2279	2825992.3392	48	1018048.1407	2825983.4766
9	1018204.6670	2826003.2436	29	1018013.5224	2825995.4743	49	1018043.9005	2825982.8070
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11	1018184.7766	2826002.5823	31	1018000.0765	2825996.7235			
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15	1018147.4806	2825994.8373	35	1018207.2134	2825992.2376			
16	1018137.4806	2825994.8373	36	1018197.5342	2825989.9649			
17	1018127.9557	2825991.8238	37	1018188.3078	2825986.1467			
18	1018118.0724	2825992.5538	38	1018178.3954	2825986.3230			
19	1018108.4691	2825995.3374	39	1018168.6351	2825988.4826			
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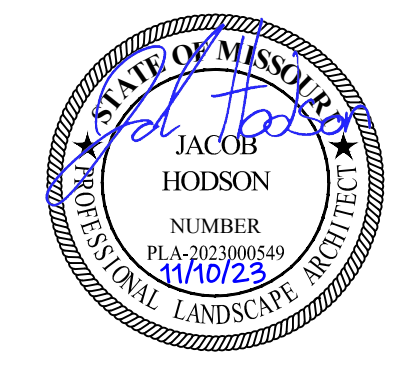


1627 MAIN STREET, SUITE 100
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1301 BURLINGTON STREET
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

11/10/23 PER CITY COMMENTS

MARK DATE DESCRIPTION

PROJECT NO: 022-04268

CAD DWG FILE: Lee's Summit - Hangar 2.DWG

DESIGNED BY: JIH

DRAWN BY: OEM

CHECKED BY: JIH

APPROVED BY: JIH

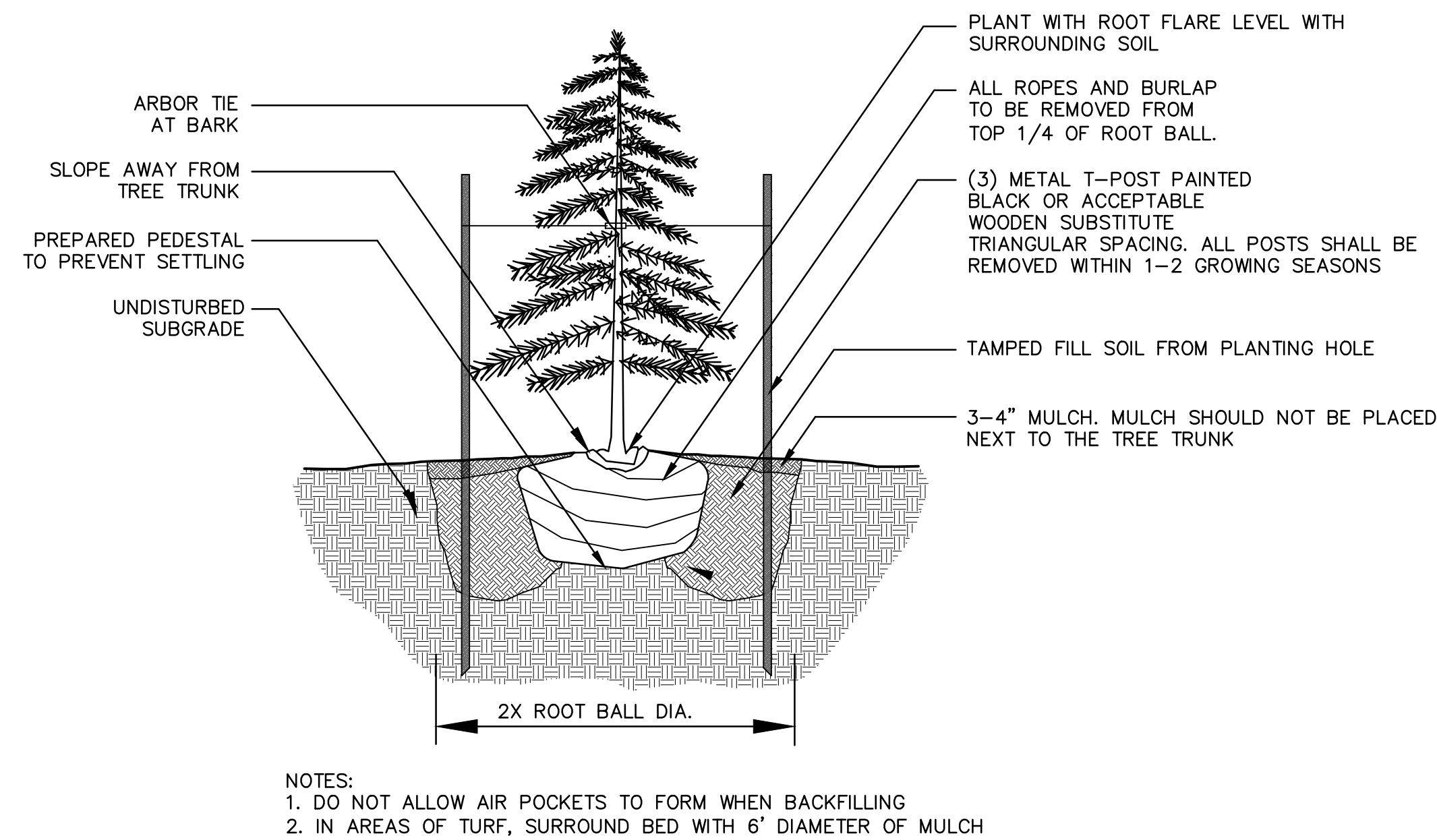
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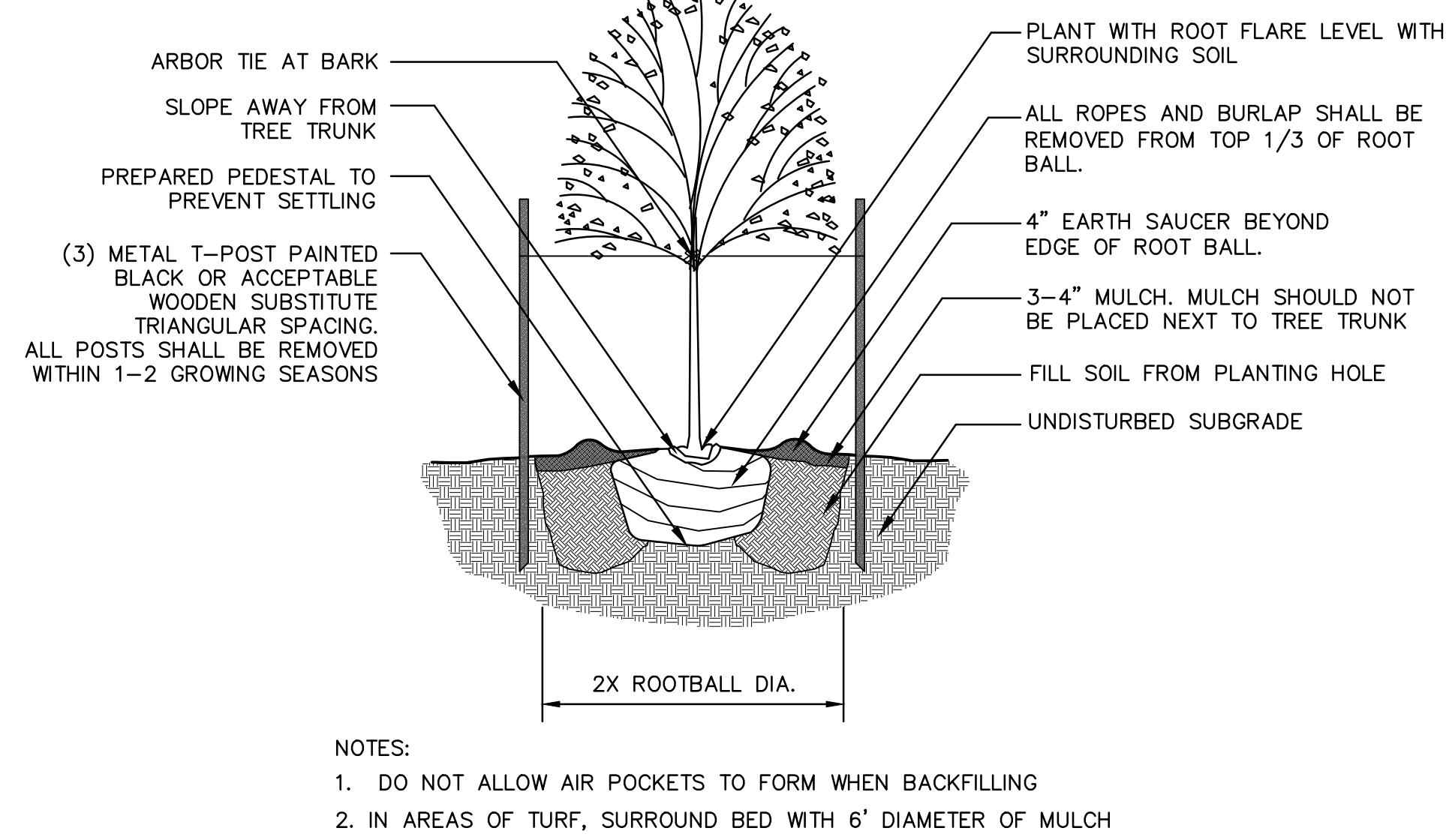
LANDSCAPE LAYOUT
PLAN

L101

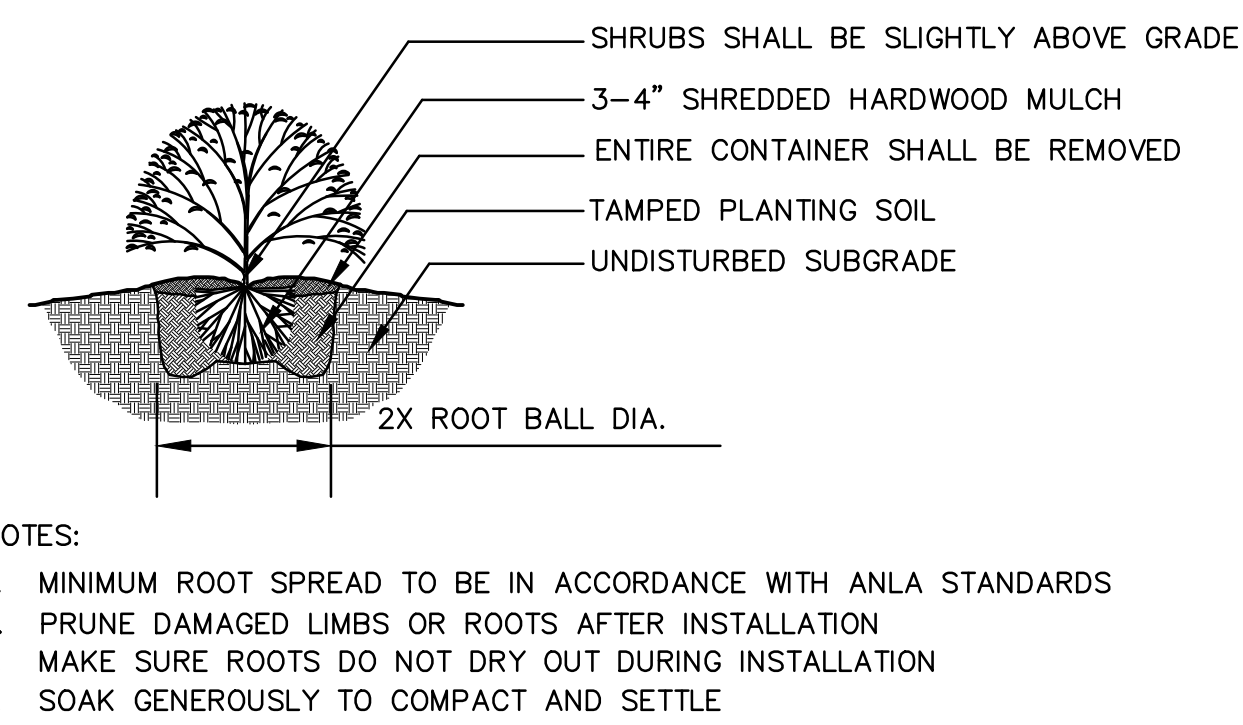
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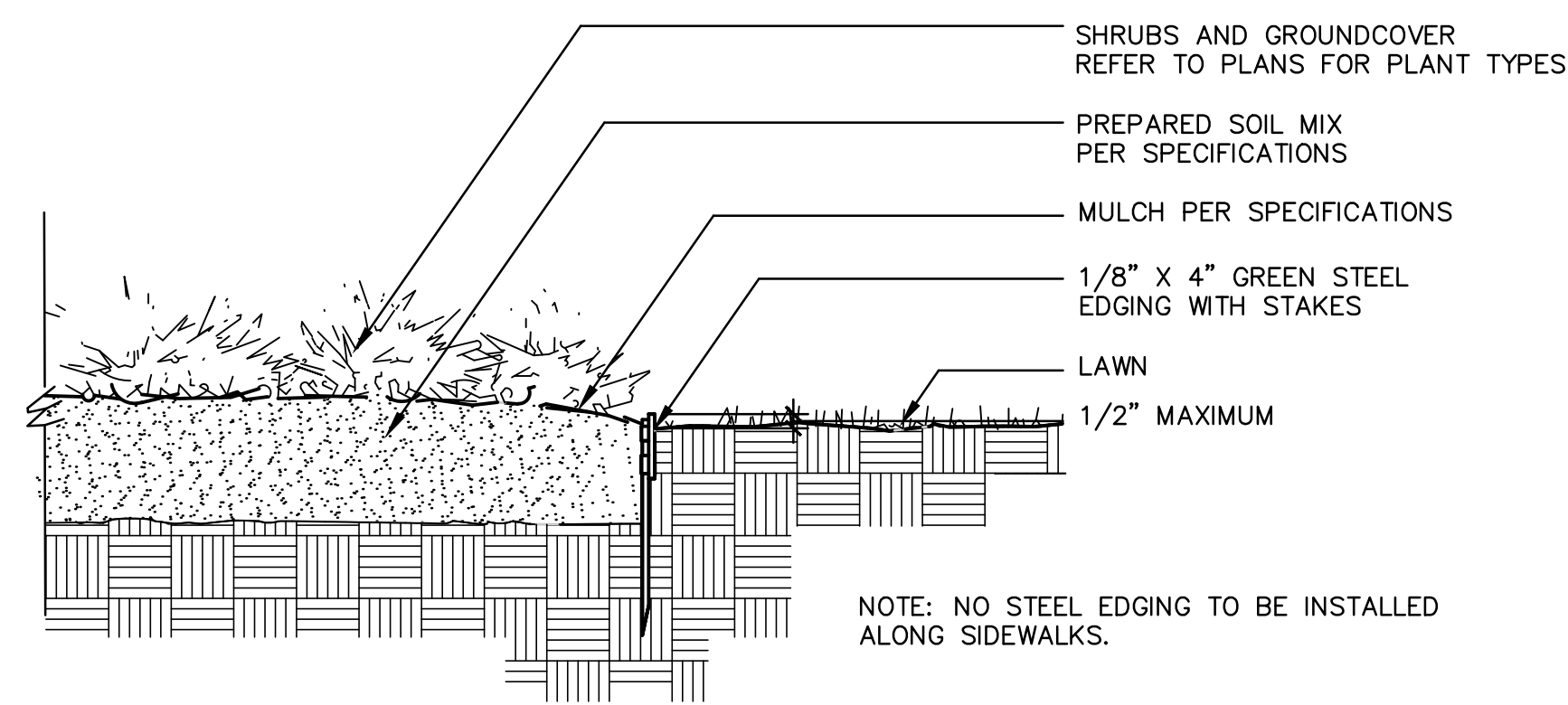
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not to scale



2 Deciduous Tree Planting Detail
not to scale

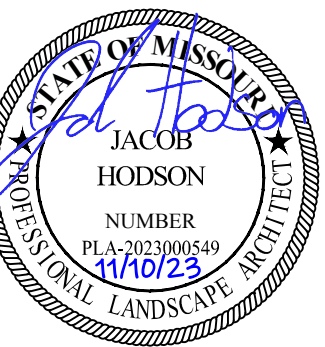


3 Shrub Planting Detail
not to scale



4 Steel Edging Detail
not to scale

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

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LEES SUMMIT, MO

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SHEET TITLE
LANDSCAPE DETAILS