GENERAL

- . THE STRUCTURE IS DESIGNED TO BE SELF- SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL. PUBLIC. BUILDING AND ITS COMPONENTS PARTS, AND ADJACENT BUILDINGS AND PROPERTIES. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY OR PERMANENT SHORING, BRACING, NEEDLING, UNDERPINNING, OR SHEET PILING, ETC. THAT MAY BE NECESSARY TO BRACE NEW CONSTRUCTION, ADJACENT BUILDINGS, SO THAT THE STRUCTURE IS BRACED FOR WIND, SEISMIC, GRAVITY, CONSTRUCTION LOADS, ETC. AND THAT NO HORIZONTAL OR VERTICAL SETTLEMENT OR ANY DAMAGE OCCURS TO THE ADJACENT EXISTING STRUCTURE. TEMPORARY SUPPORTS SHALL BE MAINTAINED IN PLACE UNTIL PERMANENT SUPPORTS AND, OR SHORING AND BRACING ARE INSTALLED.
- FALL PROTECTION SUPPORT FROM PERIMETER COLUMNS OR WALLS SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS AS REQUIRED SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND
- REGULATIONS DURING ALL PHASES OF CONSTRUCTION
- 4. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZED THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS, OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR
- 6. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE STRUCTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL CONTRACTOR. PROVIDING ALL OPENINGS REQUIRED BY THE MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER TRADES SHALL BE PART OF THE GENERAL CONTRACT, WHETHER OR NOT SHOWN IN THE STRUCTURAL DRAWINGS. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR REVIEW.
- ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS
- WITHOUT ADDITIONAL COST TO THE OWNER. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILS. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEERING OF CLARIFICATION REGARDING APPLICABILITY OF "TYPICAL DETAILS".
- 9. WORK THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- 10. DO NOT SCALE DRAWINGS. 11. SHOULD ANY OF THE GENERAL NOTES CONFLICT WITH ANY DETAILS OR INSTRUCTIONS ON PLANS, THE STRICTEST PROVISION SHALL GOVERN.
- 12. SHOP DRAWINGS AND SUBMITTALS: A. THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR AND SHOP DRAWINGS AND SUBMITTALS SHALL BEAR THE
- CONTRACTOR'S REVIEW STAMP WITH THE CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL
- B. WHEN FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT AND ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS AND ANY OTHER REFERENCE TO THE ARCHITECT AND ENGINEER FROM THAT ERECTION DRAWING. THE FABRICATOR'S NAME AND TITLE SHALL BE PLACED ON THE ERECTION DRAWING.

EXISTING WORK

- 1. EXISTING CONDITIONS SHOWN OR NOTED ON THE DRAWINGS WERE OBTAINED FROM FIELD MEASUREMENTS OR WERE ASSUMED. IF CONDITIONS OTHER THAT THOSE SHOWN EXIST. IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK AT THAT LOCATION. IF CONDITIONS OTHER THAN THOSE SHOWN EXIST, ALTERNATE METHODS OF CONSTRUCTION MAY NEED TO BE USED
- WHERE SPECIFICALLY NOTED ON THE DRAWINGS THAT EXISTING CONSTRUCTION BE VERIFIED. NOTIFY THE ENGINEER IN WRITING OF THE FINDINGS. VERIFICATION SHALL TAKE PLACE PRIOR TO PREPARATION OF SHOP DRAWINGS AND SHOP DRAWINGS SHALL SHOW ALL FIELD VERIFIED EXISTING CONDITIONS. MODIFICATIONS TO THE DETAILS MAY BE REQUIRED SHOULD ACTUAL CONDITION SIGNIFICANTLY DIFFER FROM THOSE PRESUMED. ANY REQUIRED MODIFICATIONS WILL
- BE MADE DURING THE REVIEW OF THE SHOP DRAWINGS. USE APPROPRIATE CONSTRUCTION METHODS AND EQUIPMENT AS NECESSARY TO SUPPORT
- EXISTING STRUCTURES AND TO AVOID OVER STRESSING THE EXISTING STRUCTURE. 4. EXISTING FRAMING IS ASSUMED TO BE IN ORIGINAL CONDITION. IF DETERIORATION HAS OCCURRED NOTIFY THE ENGINEER IN WRITING OF THE FINDINGS. FOR EXAMPLE, SOME TYPES OF DETERIORATION ARE AS FOLLOWS: ROTTEN WOOD, BROKEN OR CRACKED MASONRY, AND BROKEN WOOD MEMBERS.

FOUNDATIONS

- 1. THE FOUNDATIONS ARE DESIGNED USING PRESUMPTIVE SOIL BEARING PRESSURE OF 1,500 PSF. 2. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FROST ACTION AND FREEZING DURING THE COURSE OF CONSTRUCTION.
- 3. NOTIFY STRUCTURAL ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT.
- 4. FOOTING EXCAVATIONS SHOULD BE MADE TO THE REQUIRED LINES AND GRADES AS RAPIDLY AS POSSIBLE. FOOTING EXCAVATIONS BE LEFT OPEN FOR A MINIMUM OF TIME TO PREVENT DISTURBANCE TO THE FOUNDATION SOILS. FOOT TRAFFIC SHOULD BE PREVENTED ON THE BASE OF THE FOOTING EXCAVATIONS IF DISTURBANCE IS NOTED. HAND CLEANING, IF REQUIRED AND SETTING OF REINFORCING STEEL SHOULD THEN BE ACCOMPLISHED FROM THE SIDES OF THE EXCAVATION.

MASONRY

- 1. ALL DETAILS SHOWN SHALL BE CONSIDERED TYPICAL
- 2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND HAVE A MINIMUM COMPRESSIVE
- 3. MORTAR FOR MASONRY OPERATIONS SHALL COMPLY WITH ASTM C270, TYPE "M" OR TYPE "S". 4. GROUT FOR MASONRY OPERATIONS SHALL COMPLY WITH ASTM C475 AND HAVE A MINIMUM 2500 PSI AT
- 28 DAYS USING ASTM C1019 TEST METHODS. 5. INFILL CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM AT 28 DAYS.
- . ALL BLOCK SHALL BE FILLED. MAXIMUM INFILL LIFTS SHALL BE 4 FEET. 7. MINIMUM REINFORCEMENT FOR VERTICAL WALLS SHALL BE #5 REBAR @ 32" O.C. SPACING NLESS
- OTHERWISE NOTED. 8. HORIZONTAL JOINT REINFORCEMENT SHALL BE REQUIRED
- WET STICKING OF DOWELS SHALL NOT BE PERMITTED.

CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI301, "SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI302, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION", ACI305 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI306, "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING", UNLESS NOTED
- OTHERWISE FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED 2. A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF KANSAS, SHALL DEVELOP CONCRETE MIX DESIGNS. SUBMIT CONCRETE MIX AND TEST DATA FOR
- INFORMATION. ACCEPTANCE AND PROPORTIONING CRITERA INDICATED PER ACI-318 3. STRUCTURAL CONCRETE SHALL HAVE 28 DAY STRENGTH (F'C) AS FOLLOWS:
- A. SLABS AND FLOOR FRAMING: 4000 PSI B. SLAB ON GRADE: 4000 PSI
- C. CAPS: 4000 PSI D. CASSONS 4000 PSI
- E. GRADE BEAMS: 4000 PSI F. COLUMNS & SHEAR WALLS 4000 PSI
- 4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI318, 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI117, "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND THE LATEST ACI DETAILING MANUAL
- 5. ALL PIPE SLEEVE OPENINGS THROUGH CONCRETE SLABS SHALL BE FORMED WITH
- STANDARD STEEL PIPE. 6. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE THE WELDED WIRE FABRIC OR TOP REINFORCING OF SLAB.
- 7. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH TWO COATS OF COAL TAR EPOXY, APPROVED BY THE ENGINEER, UNLESS
- OTHERWISE NOTED. 8. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1 ½ HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE PERMITTED. ALL WATER MUST BE ADDED AT THE BATCH PLANT. SLUMP MAY BE ADJUSTED ONLY THROUGH THE USE OF ADDITIONAL WATER
- REDUCING ADMIXTURES OR HIGH RANGE WATER REDUCING ADMIXTURE. 9. ALL CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS.
- EXCEPT WHERE SPECIFICALLY NOTED. 10. ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED 3/4" UNLESS SHOWN
- 11. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, MASONRY ANCHORS, AND
- FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC
- 12. THE PLACEMENT OF SLEEVES, OUTLET BOXES, BOX-OUTS NOT COVERED BY TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR APPROVAL
- 13. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, NO TACK WELDING FOR REINFORCING IN THE FIELD WILL BE PERMITTED.
- 14. REINFORCING BARS FOR WELDED APPLICATIONS SHALL CONFORM TO ASTM A706, 60 KSI YIELD STRENGTH
- 15. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185 AND BE FURNISHED
- IN FLAT SHEETS AND INSTALLED ON CHAIRS 16. WIRE BAR SUPPORTS SHALL BE FURNISHED FOR ALL REINFORCING WITHIN SLABS, INCLUSIVE OF WELDED WIRE FABRIC. BOTTOM BARS IN SLABS-ON-GRADE MAY BE SUPPORTED BY OTHER SUITABLE SUPPORTS. REINFORCING SHALL BE PROPERLY POSITIONED PRIOR TO CONCRETE PLACEMENT AND MAY NOT BE RE-POSITIONED ONCE CONCRETE OPERATIONS HAVE BEGUN. WIRE BAR AND OTHER TYPES OF SUPPORTS SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE MANUAL
- OF STANDARD PRACTICE. 17. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS
- OTHERWISE NOTED ON DRAWINGS. 18. ALL HOOKS SHOWN ON DRAWINGS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE
- 19. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND BE LAPPED AT NECESSARY SPLICES. LAP LENGTHS SHALL BE AS GIVEN IN THE SPLICE AND DEVELOPMENT TABLE.
- 20. PROVIDE ADDITIONAL REINFORCING AT THE SIDE AND CORNERS OF ALL OPENINGS IN CONCRETE IN ACCORDANCE WITH TYPICAL DETAILS. MINIMUM ADDITIONAL REQUIREMENTS ARE AS FOLLOWS.
- A. (2)-#5 TOP AND BOTTOM IN SLABS B. (2)-#5 EACH FACE IN WALLS
- C. (2)-#5 X 4'-0" LONG DIAGONALLY EACH CORNER OF OPENING
- 21. EXTEND BARS A MINIMUM OF 2'-0" BEYOND OPENINGS, HOOK WHERE EXTENSION IS NOT POSSIBLE.
- 22. IN REINFORCED CONCRETE WALLS, GRADE BEAMS AND TRENCH FOOTING PROVIDE CORNER DOWELS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. DOWELS
- SHALL LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION. 23. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.
- UNLESS OTHERWISE NOTED:
- A. EARTH FORMED AND CAST DIRECTLY AGAINST SOIL- 3" B. CAST AGAINST FORMS BUT EXPOSED TO EARTH AND WEATHER
- a. #6 AND LARGER- 2"
- b. #5 AND SMALLER- 1 ½" C. SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER- 3/4"
- D. OTHERS-

STRUCTURAL STEEL

- 1. DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED, EXCEPT AS MODIFIED BY THESE NOTES AND THE PROJECT SPECIFICATIONS.
- 2. STEEL SHAPES SHALL CONFORM TO THE FOLLOWING GRADES UNLESS NOTED OTHERWISE:
- ASTM A992 GR. 50 A. WIDE FLANGE (W) SHAPES
- B. ANGLES, CHANNELS, S & M SHAPES ASTM A36 C. HP SHAPES ASTM A572 GR. 50
- D. STRUCTURAL HSS TUBING ASTM A500 GR. C (FY=50 KSI) E. STRUCTURAL HSS PIPE ASTM A500
- ASTM A572 GR. 50 F. PLATES G. THREADED RODS ASTM A36
- 3. STEEL MATERIAL OF FASTENERS AND WELDS SHALL CONFORM TO THE FOLLOWING UNLESS NOTED
- A. COLUMN/BEAM CONNECTION BOLTS ASTM F3125 GR. A325
- B. ANCHOR RODS **ASTM F1554**
- C. NUT D. WASHER ASTM F436
- ASTM A563 GR. A563 E. HEAVY HEX NUT F. PLATE WASHER ASTM A572 GR. 50
- G. WELDING ELECTRODES E70XX
- 4. ALL BOLTS SHALL BE TYPE N UNLESS NOTED OTHERWISE. 5. AT LONG-SLOTTED, SHORT-SLOTTED, OR OVERSIZED HOLES WASHERS SHALL BE PROVIDED. WHERE
- A490 BOLTS HAVE A DIAMETER > 1" USE EXTRA THICK WASHER. WHERE LONG SLOTTED HOLES ARE REQUIRED PLATE WASHERS SHALL BE PROVIDED. PLATE WASHER THICKNESS MUST BE 5/16" AT ALL A325 BOLT DIAMETERS AND A490 BOLTS WITH DIAMETER <= 1". WHERE
- A490 BOLTS WITH A DIAMETER >1" USE 3/8" PLATE WASHER.
- 7. ALL BOLTS IN A SLIP CRITICAL CONNECTION SHALL USE COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR MEETING ASTM F959.
- 8. SLIP CRITICAL, BOLTS SHALL BE CONSIDERED BEARING AND TIGHTENED TO A SNUG TIGHT CONDITION AND INSPECTED BY A TESTING AGENCY FOR CONFORMANCE WITH RCSC 9. ALL WELDING SHALL BE CONFORM TO THE LATEST AWS D1.1.
- 10. CONNECTIONS OR SPLICES OF STRUCTURAL MEMBERS NOT CLEARLY INDICATED IN THE DRAWINGS ARE PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- 11. ALL ANCHOR RODS/BOLTS SHALL BE SET IN CONCRETE WITH A TEMPLATE AND BE FURNISHED WILL DOUBLE NUTS.
- 12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP 13. ALL STEELS EXPOSED TO WEATHER AND NOT FULLY WITHIN A CONDITIONED SPACE ARE TO BE HOT
- DIPPED GALVANIZED PER ASTM A123 UNLESS OTHER WEATHER PROOFING METHODS HAVE BEEN SPECIFIED PER THE ARCHITECT.
- 14. WHEN WELDING PAINTED OR GALVANIZED STEEL AWS METHODS MUST BE FOLLOWED. DO NOT FIELD WELD GALVANIZED OR PAINTED STEEL UNLESS INDICATED ON DRAWINGS.
- 15. WHERE GALVANIZED SURFACES HAVE BEEN DAMAGED REPAIR THE SURFACE ACCORDING TO ASTM A780. 16. WHERE PAINTED SURFACES HAVE BEEN DAMAGED PAINT IS TO BE REAPPLIED.

METAL DECK

- ALL METAL FLOOR DECK AND METAL ROOF DECK SHALL BE IN A 3-SPAN CONTINUOUS CONFIGURATION UNLESS NOTED OTHERWISE. WHERE 3-SPAN CONDITIONS CAN NOT BE MET
- THE STRUCTURAL ENGINEER IS TO BE NOTIFIED. 2. AT SUPPORTS PARALLEL TO THE DECK SPAN, RAISE SUPPORTS AND PROVIDE SHIMS AT
- CONNECTIONS IF THE DECK DOES NOT ENGAGE THE SUPPORT 3. ALL MISCELLANEOUS ACCESSORIES (POUR STOPS, COLUMN CLOSURES, ETC.) WILL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE STEEL
- 4. MEP EQUIPMENT OR OTHER TYPES OF REQUIRED ITEMS SHALL NOT BE SUSPENDED/HUNG FROM ANY METAL ROOF DECK. ALL ITEMS REQUIRING THESE TYPES OF ATTACHMENTS ARE TO
- BE SUPPORTED BY AT THE STRUCTURAL STEEL FRAMING. VERIFY MINIMUM BEARING PER MANUFACTURER'S REQUIREMENTS.
- 6. FLOOR DECK
- A. DECK OVER JOIST: 1" FLOOR DECK (22 GAGE), TYPE 1.0 FD, FY=60 KSI B. SUPPORT FASTENER: 3/8" EFF. DIAM, ARC SPOT WELD AT 36/10 PATTERN
- C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN 7. FLOOR DECK (BREAK ROOM)
- A. DECK OVER CMU WALL: 1.5" FLOOR DECK (22 GAGE), TYPE 1.5 FD, FY=60 KSI B. SUPPORT FASTENER: #12 SCREWS WITH 36/7 PATTERN
- C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN 8. ROOF DECK (FRONT CHASE)
- A. DECK OVER JOIST: TYPE 1.5B (22 GAGE), FY=40 KSI MIN. B. SUPPORT FASTENER: #12 SCREWS WITH 36/4 PATTERN
- C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN



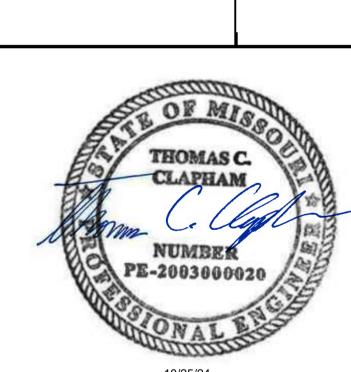
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GENERAL NOTES

PRECAST CONCRETE

- 1. DESIGN, FABRICATE, TRANSPORT AND ERECT PRECAST MEMBERS ACCORDING TO THE LATEST
- ACI AND PCI BUILDING CODES, HANDBOOKS AND MANUALS. 2. SPECIFIED PRECAST CONCRETE 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH:
- A. PRECAST HOLLOW CORE PLANKS 6,000 PSI 5,000 PSI B. PRECAST BEAMS
- C. PRECAST COLUMNS 7,000 PSI

ADDITION TO LOADS STATED UNDER DESIGN CRITERIA.

- 6,000 PSI D. PRECAST WALL PANELS
- 3. ALL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE SPANS AND LOADING CONDITIONS AS INDICATED ON THE STRUCTURAL PLANS AND ARCHITECHURAL LAYOUTS AND ELEVATIONS. THE PRECAST CONTRACTOR IS RESPONSIBLE FOR PICK-UP POINT LOCATIONS AND INSERTS, AND SPECIAL PICK-UP REINFORCING AND STRONG-BACKS FOR ALL PICK-UP AND PLACING OPERATIONS. THE
- PRECAST CONTRACTOR SHALL DESIGN ALL CONNECTIONS TO THE STRUCTURE AND BETWEEN PRECAST MEMBERS. ALL DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND RECORD PRIOR TO THE START OF FABRICATION. 4. ROOF PLANKS SHALL BE DESIGNED FOR COCENTRATED POINT LOADS AS SHOWN ON PLANS IN
- 5. SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL ELEMENTS, DETAILS, CONNECTIONS AND STRUCTURAL TOPPING (IF REQUIRED) TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION.
- 6. ALL PRECAST MEMBERS SHALL BE ADEQUATELY BRACED UNTIL ALL CONNECTIONS ARE COMPLETED AND THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE AS DESIGNED, AND THE GROUT AT DESIGN STRENGTH. BRACING SHALL BE DESIGNED BY A REGISTURED
- PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. 7. PRECAST MANUFACTURER SHALL INCLUDE IN FABRICATIN EMBEDDED CONNECTION HARDWARE FOR TEMPORARY BRACING FOR ALL PRECAST MEMBERS.
- 8. DRILLING THROUGH PRECAST HOLLOW CORE PLANKS SHALL BE BY ROTARY DRILL ONLY. DO NOT USE A HAMMER DRILL. LOCATE CORE VOIDS FOR DRILLING. DO NOT DRILL INTO "NO-DRILL" ZONES WHERE PRE-STRESSING STRANDS ARE LOCATED.

COLD FORMED STEEL CONNECTIONS

- 1. ALL FASTENERS ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. DO NOT
- SUBSTITUTE FASTENERS WITHOUT WRITTEN PERMISSION FROM ENGINEER. 2. PAF POINT MUST PENETRATE THROUGH FULL BASE STEEL THICKNESS. NOTIFY PAF
- MANUFACTURER FOR INSTRUCTIONS WHERE FULL PENETRATION IS NOT ACHIEVED. 3. IF REQUIRED, ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF AWS D1.3-98 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES. CONSULT AWS D19.0 WELDING ZINC COATED STEEL & ANSI STANDARD Z49.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES.
- 4. MINIMUM WELD THROAT THICKNESS (T) MUST MATCH OR EXCEED THE BASE STEEL
- THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE. IN WELDING, THE ZINC COATING ON STEEL FRAMING WILL BE BURNED AWAY; THEREFORE, A ZINC RICH PAINT MUST BE APPLIED TO THE WELD AREA TO PROVIDE CORROSION RESISTANCE.
- 6. ALL SCREW CONNECTIONS ARE BASED ON NASPEC SECTION E4, WHICH OUTLINES THE AISI
- SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS. 7. FOR SCREWS, A MINIMUM OF 1.5 X SCREW DIAMETER CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS. A MINIMUM OF 3.0 X SCREW DIAMETER ON-CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.
- 8. POWER DRIVEN FASTENER SYSTEMS, EXPANSION ANCHOR SYSTEMS, MASONRY SCREW SYSTEMS, & ADHESIVE ANCHOR SYSTEMS CONNECTIONS ARE BASED ON LITERATURE FOR FASTENER REQUIREMENTS (E.G. SPACING, EDGE DISTANCE, BASE MATERIAL THICKNESS, ETC.). ALTERNATIVE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS & LOAD CAPACITIES ARE ACCEPTABLE.
- 9. ALL TRACKS SHALL BE FASTENED TO EACH STUD WITH #8 SCREWS AT EACH FLANGE
- 10. ALL PAFS SHALL BE HILTI 0.157"Ø X-U AND CONFORM TO THE FOLLOWING: A. PAF'S INTO STEEL SHALL HAVE 1/2" MINIMUM EDGE DISTANCE AND 1" MINIMUM SPACING.
- B. PAF'S INTO CONCRETE AT EXTERIOR WALLS SHALL HAVE 1-1/2" PENETRATION, 3" EDGE DISTANCE AND 2-1/2" MINIMUM SPACING.
- C. PAF'S INTO CONCRETE AT INTERIOR WALLS SHALL HAVE 3/4" PENETRATION, 3" EDGE DISTANCE AND 2-1/2" MINIMUM SPACING.
- D. SEE SHEAR WALL SCHEDULE FOR SPECIFIC REQUIREMENTS AT THESE LOCATIONS

COLD FORMED STEEL STRUCTURAL FRAMING

- 1. ANY DIMENSIONAL INFORMATION SHOWN INCLUDED FOR ENGINEERING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BUILDING DIMENSIONS WITH THE A/E AND MEP DRAWINGS AND TO COMPLY WITH ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. SHOP DRAWINGS MUST BE SUBMITTED FOR ALL COLD FORMED STRUCTURAL STUD FRAMING. 3. ALL MATERIAL PROPERTIES, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE THE LATEST EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS."
- 4. ANY PROPRIETARY CONNECTORS SHOWN HAVE BEEN SELECTED BASED ON SPECIFICATIONS AND CAPACITIES PUBLISHED BY THE MANUFACTURER. WELD DESIGN VALUES HAVE BEEN BASED ON THE LATEST EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS." ANY DEVIANCE FROM THE BRAND, TYPE, SIZE OR QUANTITY OF CONNECTORS INDICATED ON THESE DRAWINGS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR AT AN ANGLE TO FIT SQUARELY AGAINST ABUTTING MEMBERS. SPLICING OF AXIALLY LOADED MEMBERS SHALL NOT BE PERMITTED. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY FASTENED. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF COMPONENTS IS NOT PERMITTED.
- 6. MEMBERS SHALL NOT BE SPLICED OTHER THAN AT THE LOCATIONS INDICATED ON THE
- DRAWINGS. ALL SPLICES SHALL CONFORM TO THE DETAILS IN THE DRAWINGS. 7. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF STRUCTURAL COMPONENTS WHERE MEMBERS ATTACH.
- 8. ALL LOAD BEARING JOISTS SHALL HAVE BLOCKING WITH A MAXIMUM SPACING OF 8 '-0" ON
- CENTER, ATTACHED PER DETAILS. 9. TEMPORARY BRACING SHALL BE PROVIDED & REMAIN IN PLACE UNTIL WORK IS COMPLETELY
- STABILIZED. 10. NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS STATED WITHIN THIS DRAWING PACKAGE.
- 11. DESIGN ASSUMES CONDITIONS TO BE STABILIZED AND IN FINAL LOCATION. TEMPORARY BRACING (BY OTHERS) OR OTHER MEANS OF STABILIZATION MAY BE REQUIRED UNTIL FRAMING IS IN ITS STABLE & FINAL CONDITION.
- 12. PER AISI STANDARD, THE MAXIMUM ALLOWABLE GAP (MEASURED BETWEEN THE WEB OF THE STUD AND OF THE TRACK) FOR A STUD SEATED IN A TRACK IS 1/4" FOR NON-AXIAL LOAD BEARING CONDITIONS AND 1/8" FOR AXIAL LOAD BEARING CONDITIONS (U.N.O.) PRESSURE SHOULD BE APPLIED TO NEST THE STUDS INTO THE TRACKS UNTIL THE TOLERANCES LISTED ABOVE ARE ACHIEVED. FAILURE TO DO SO COULD RESULT IN SERVICEABILITY PROBLEMS IN THE FUTURE.

SPECIAL INSPECTIONS

- 1. THE OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF ALL REQUIRED SPECIAL INSPECTIONS ALL SPECIAL INSPECTIONS ARE TO BE SCHEDULED AND COORDINATED BY THE CONTRACTOR. SPECIAL INSPECTORS SHALL BE A QUALIFIED PERSON(S) WITH DEMONSTRATED COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE ENGINEER OF RECORD UNLESS OTHERWISE NOTED. INSPECTIONS SHALL BE PERFORMED AS INDICATED BELOW AND/OR PRIOR TO THAT PORTION OF CONSTRUCTION BEING CONCEALED IN THE CASE OF PERIODIC INSPECTIONS.
- A. CONCRETE PLACING
- B. CONCRETE REINFORCING
- C. STEEL BOLTING
- D. STEEL WELDING E. BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS
- F. ANCHOR RODS G. ROOF DIAPHRAM ATTACHMENT
- H. SOIL VERIFICATION
- STEEL FRAME 2. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE

SUBMITTALS

- 1. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF THE SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS.
- 2. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF
- THESE CONTRACT DOCUMENTS. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE
- A. STEEL FRAMING CONNECTIONS. B. LIGHT GAGE METAL FRAMING AND CONNECTIONS.
- 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
- A. CONCRETE MIX DESIGN AND MATERIALS.

FOLLOWING DELEGATED DESIGN ITEMS.

- B. CONCRETE REINFORCING STEEL. C. STRUCTURAL STEEL.
- D. LIGHT GAGE METAL FRAMING
- 5. PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.

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PE-2003000020

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY

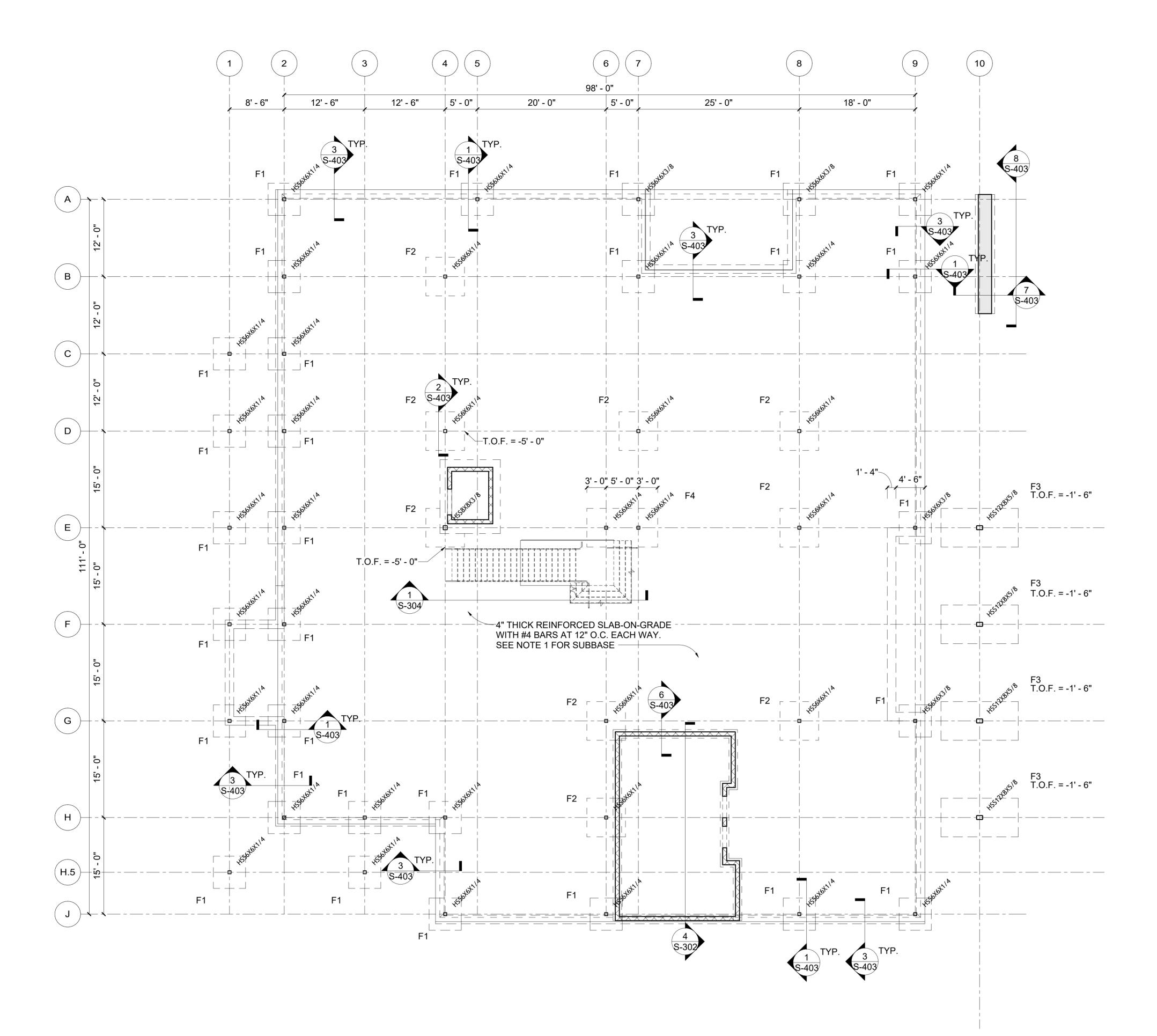
MARK DATE DESCRIPTION PROJECT NO: 24KC50013 CAD DWG FILE: Lee's Summit - Hangar 2.rvt

DESIGNED BY: JDH & BLL DRAWN BY: JDH CHECKED BY: BLL APPROVED BY:

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GENERAL NOTES



Foundation Plan			

				SPR	EAD FOO	TING	
			DIMENSI	ONS	RE	INF.	
ID	QTY.	WIDTH	LENGTH	THICKNESS	TOP	ВОТ	COMMENTS
F1	30	5' - 0"	5' - 0"	2' - 6"	~	#5 @ 12" O.C. E.W.	
F2	9	6' - 0"	6' - 0"	1' - 4"	~	#5 @ 10" O.C. E.W.	
F3	4	6' - 0"	12' - 0"	2' - 6"	5 - #8 LONG.	5 - #8 LONG.	
					10 - #8 TRANS.	10 - #8 TRANS.	
F4	1	11' - 0"	6' - 0"	1' - 4"	~	#5 @ 10" O.C. E.W.	

NOTES:

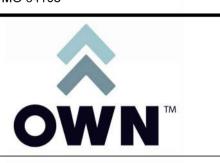
- 1. SLAB ON GRADE TO BE PLACED OVER 15-MIL VAPOR BARRIER OVER 4" CLEAN ROCK, OVER 12" CRUSHED LIMESTONE SCREENINGS PER GEOTECH
- 2. TOP OF FOOTING = -1' 3" (UNLESS NOTED OTHERWISE)



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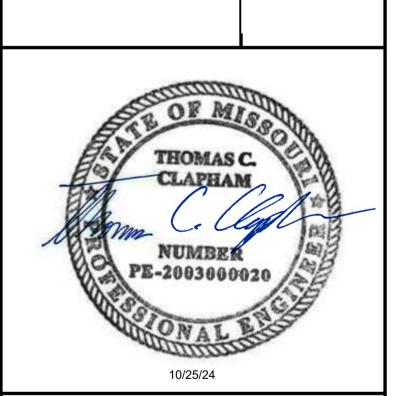


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LEE'S SUMMIT, MISSO



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PROJECT NO: 24KC50013

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DESIGNED BY: JDH & BLL

DESIGNED BY: JDH & E
DRAWN BY: JDH
CHECKED BY: BLL

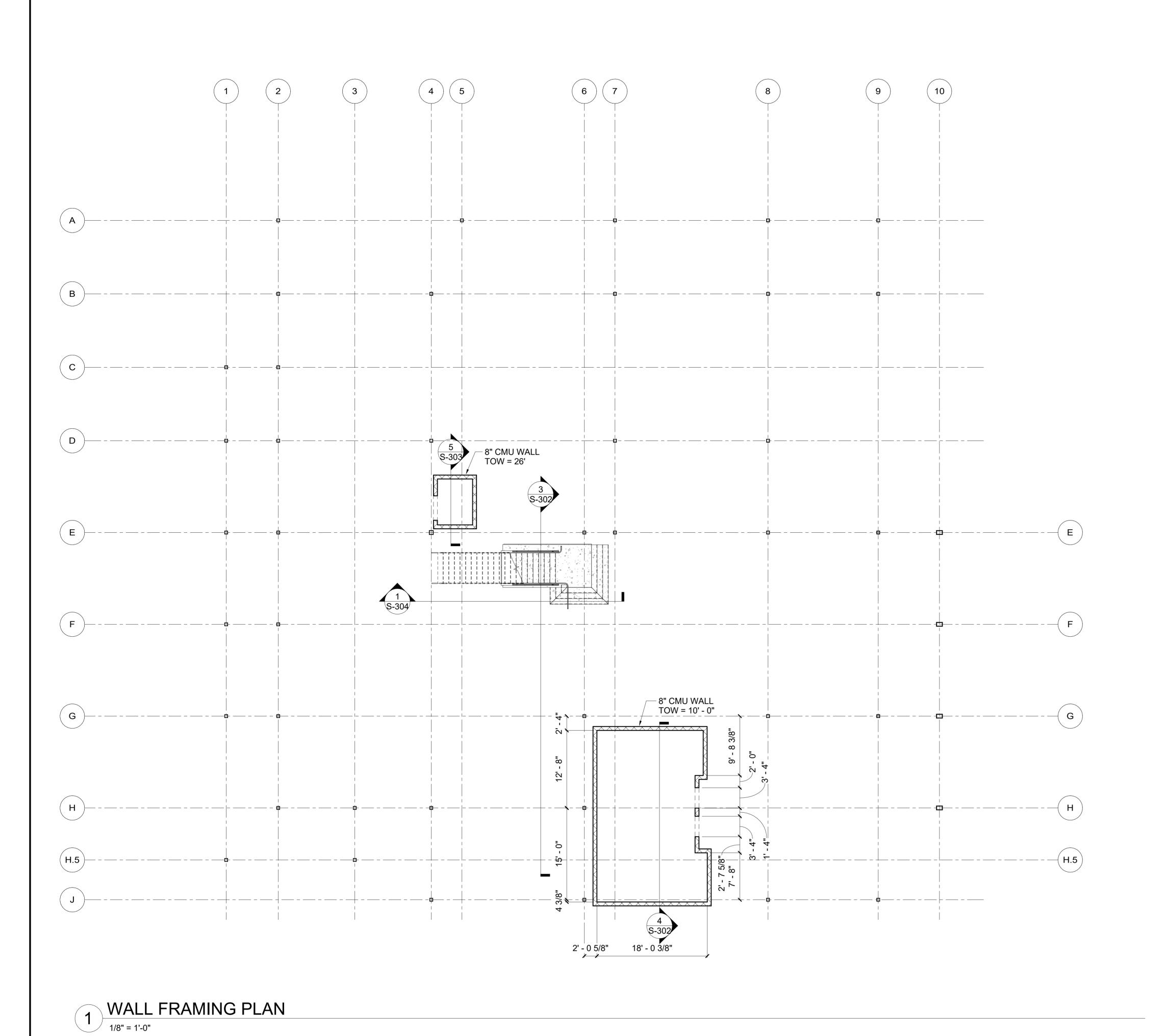
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SHEET TITLE

FOUNDATION PLAN

S-101

/24/2024 4·59·00 PM



CMU WALLS SHALL BE 8" NOMINAL REINFORCED W/ #5 VERTS @ 24"
 O.C. BOND BEAMS W/ 2 - #4 @ 48" O.C. MAX CONTINUOUS W1.7 JOINT REINFORCEMENT @ 16" O.C.



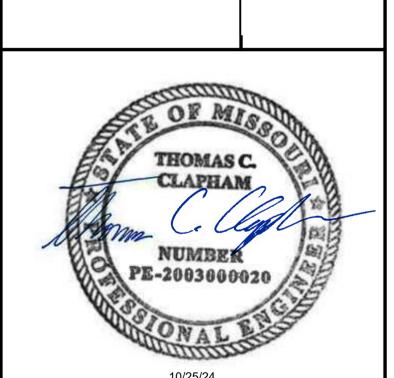
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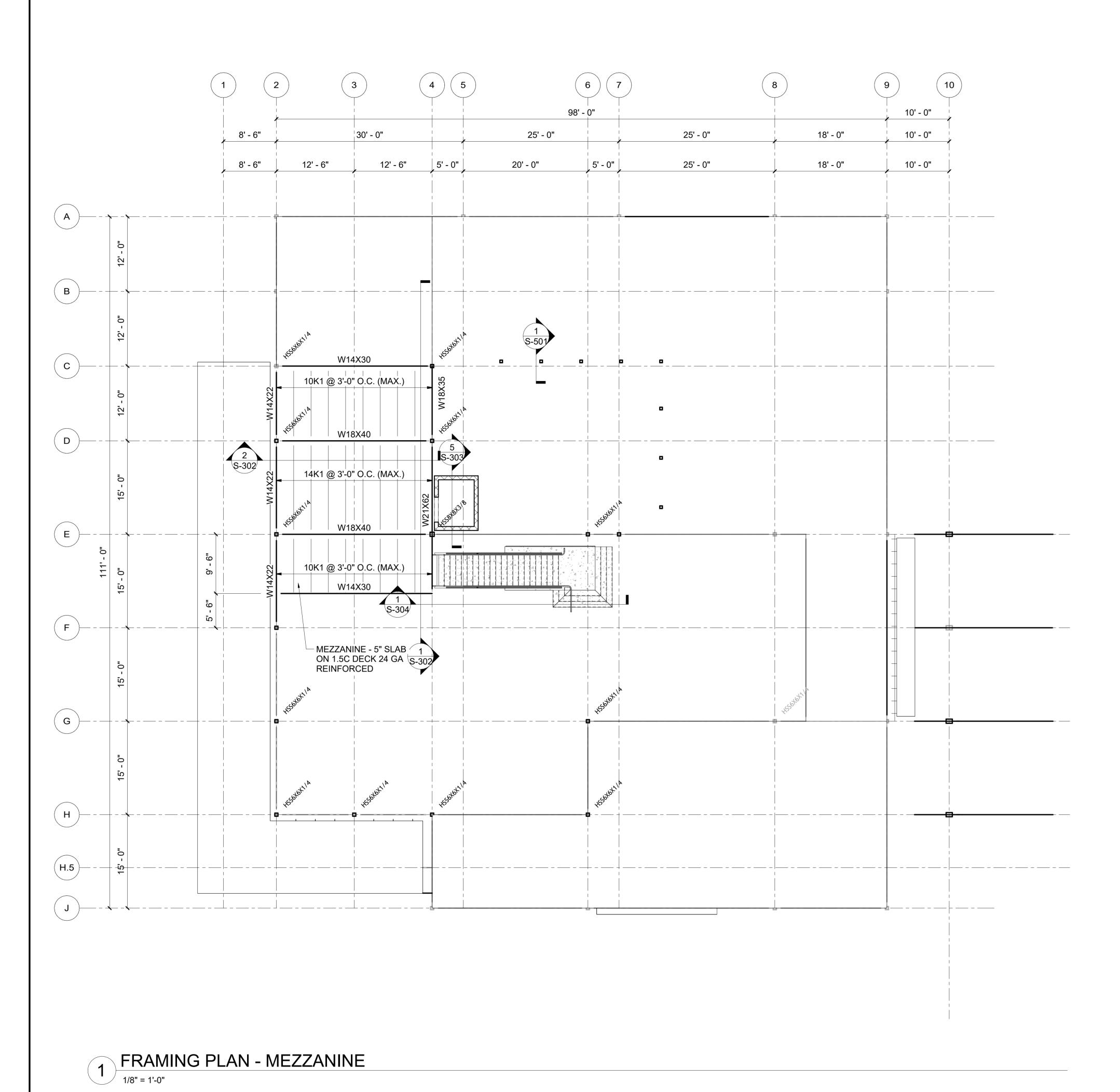
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WALL FRAMING PLAN



1. USE 1.5C DECK 24 GA 80KSI MIN G60. 2. ATTACH DECK AS SHOWN BELOW:

STRUCTURAL #12 - 36/4 #10 - 2 PER SPAN #12 - 12" O.C.

3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS

4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12 5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.

6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS, AND SHALL BE DETAILED BY THE STEEL FABRICATOR.



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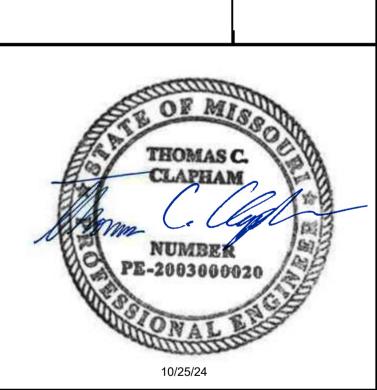


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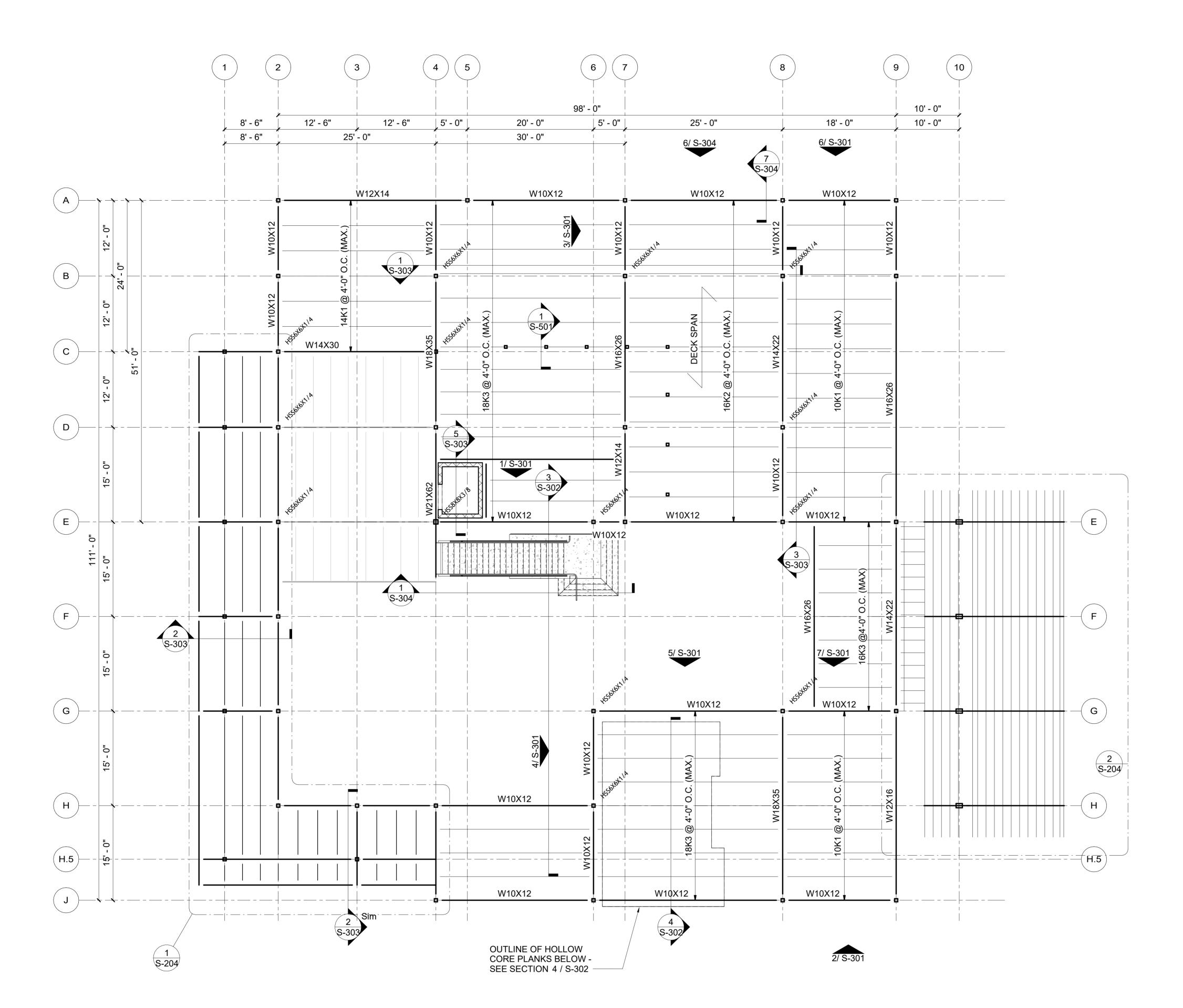
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MEZZANINE FRAMING PLAN



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1701 WALNUT STREET, SUITE 300

NOTES:

EDGE

1. USE 1.5B DECK 22 GA 80KSI MIN G60.

#10 - 2 PER SPAN

4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12

5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.

6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS,

#12 - 12" O.C.

AND SHALL BE DETAILED BY THE STEEL FABRICATOR.

3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS

2. ATTACH DECK AS SHOWN BELOW: STRUCTURAL #12 - 36/4

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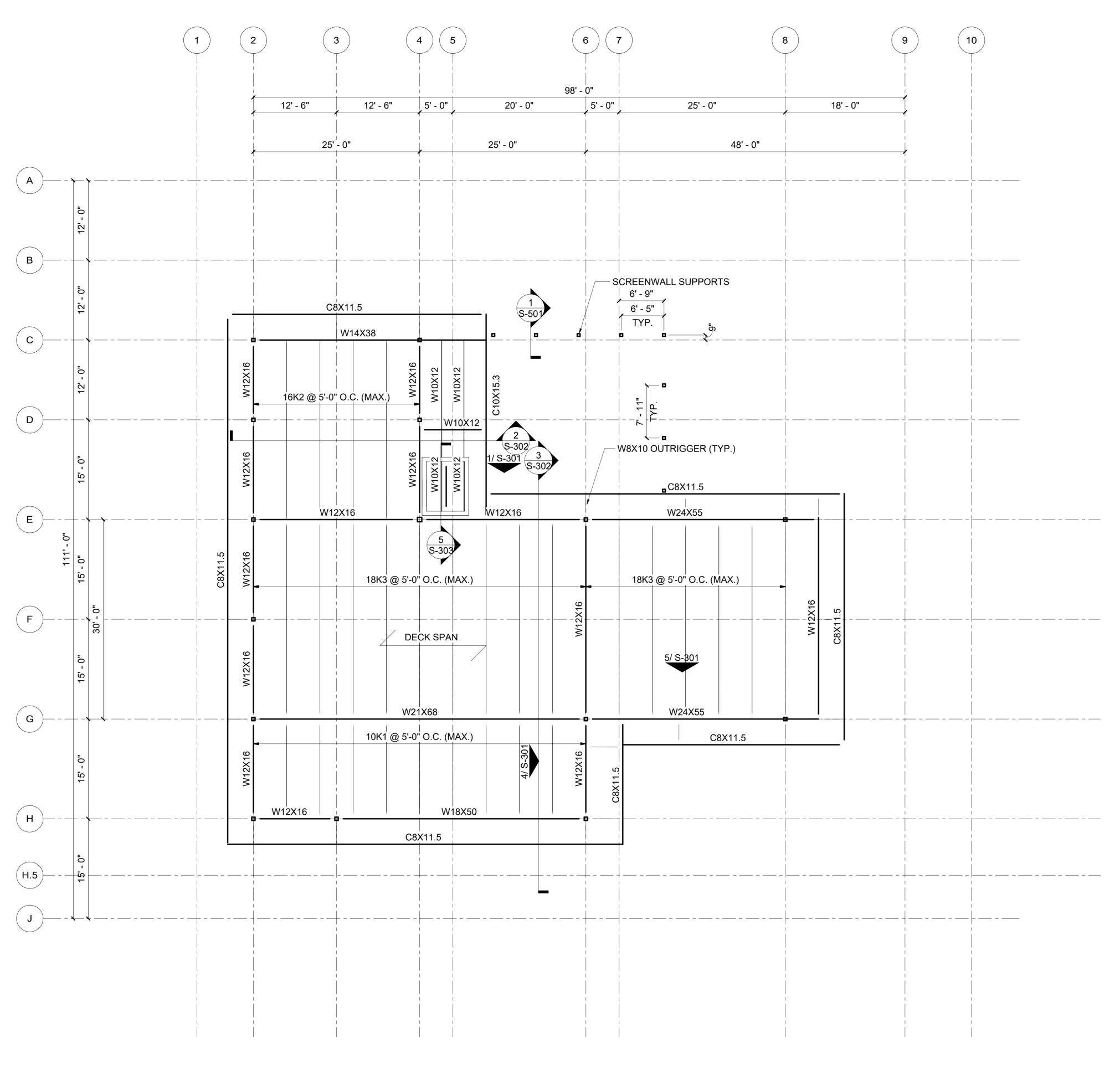
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> LOW ROOF FRAMING PLAN

> > S-202

1 FRAMING PLAN - LOW ROOF

1/8" = 1'-0"



FRAMING PLAN - HIGH ROOF

1/8" = 1'-0"



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1701 WALNUT STREET, SUITE 300

1. USE 1.5B DECK 24 GA 80KSI MIN G60.

#10 - 2 PER SPAN #12 - 12" O.C. 3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS

AND SHALL BE DETAILED BY THE STEEL FABRICATOR.

4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12

5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.

6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS,

2. ATTACH DECK AS SHOWN BELOW: STRUCTURAL #12 - 36/4

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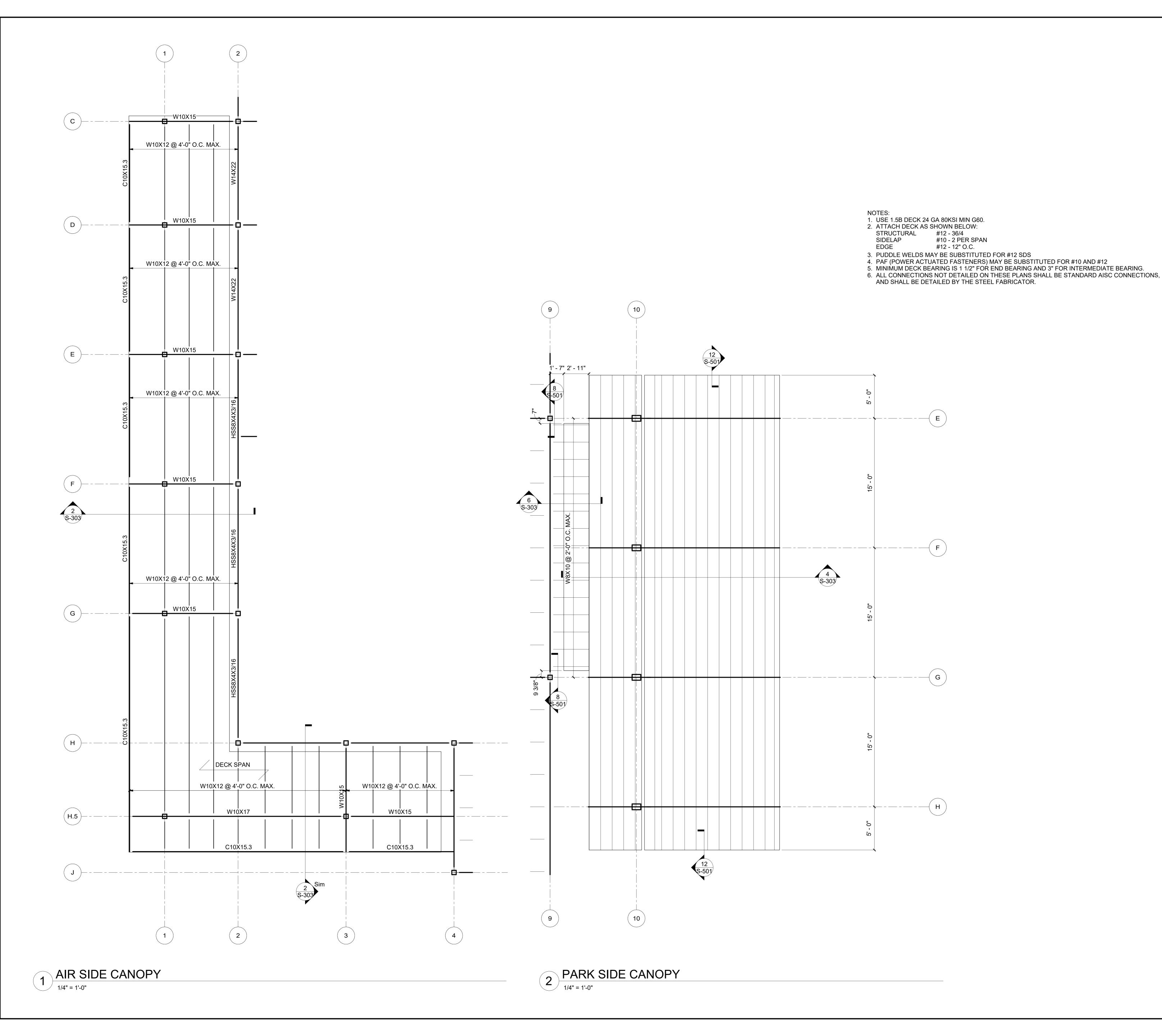
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HIGH ROOF FRAMING PLAN



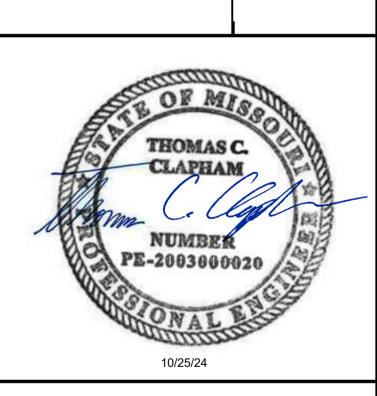




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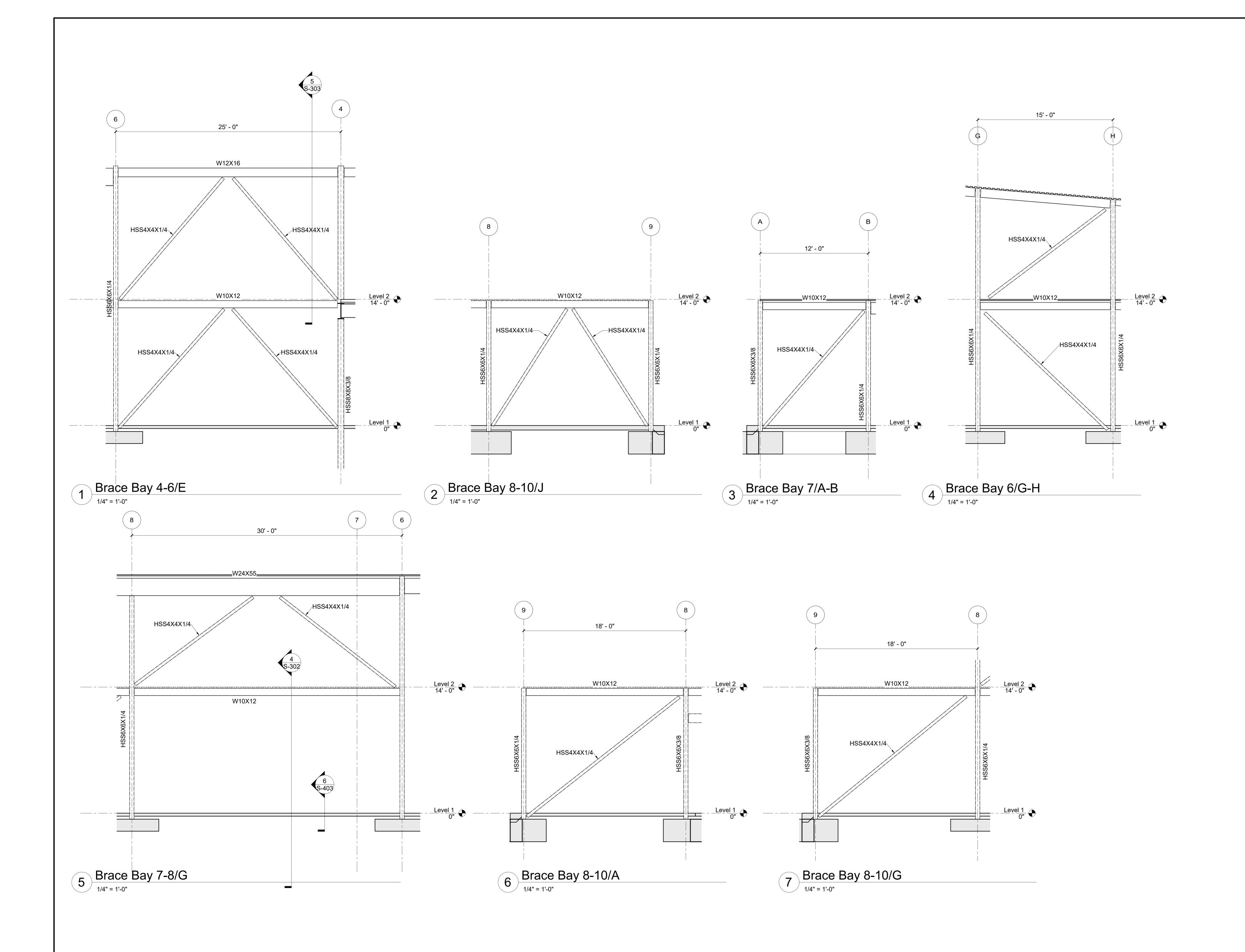
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ENLARGED PLANS







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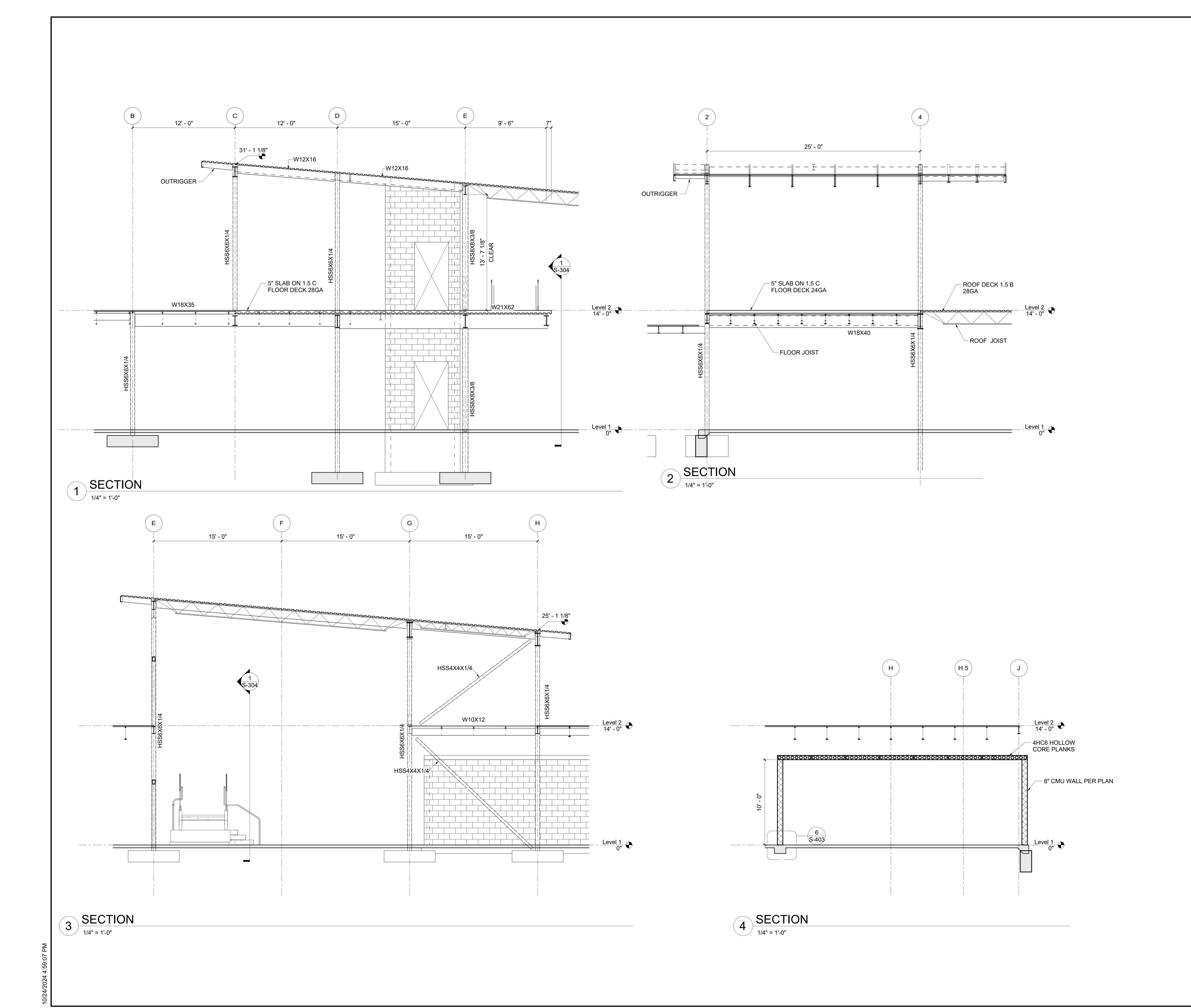
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BRACE BAY SECTIONS



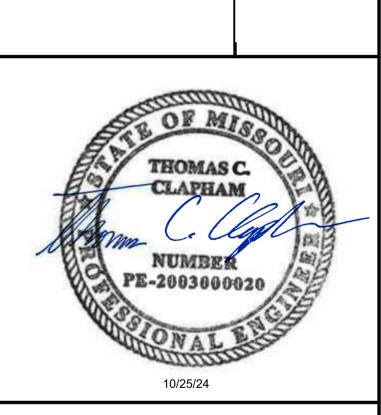




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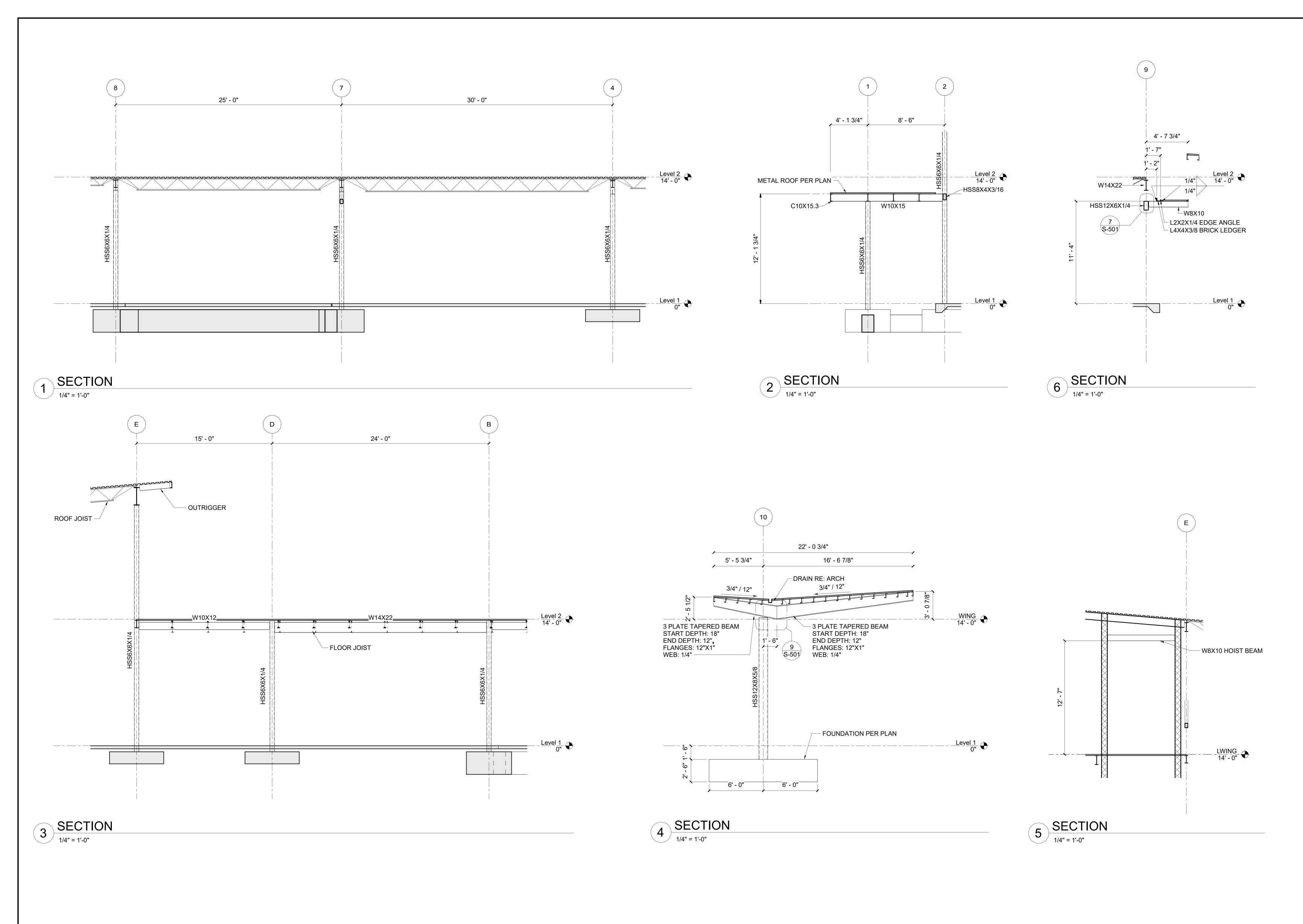
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BUILDING SECTIONS



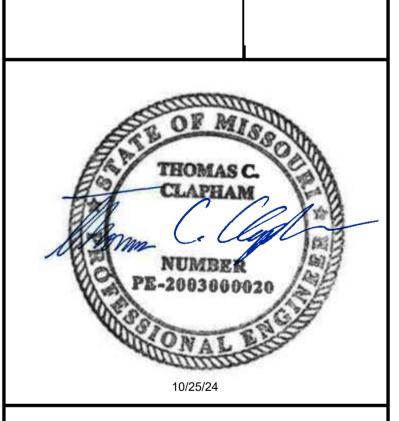




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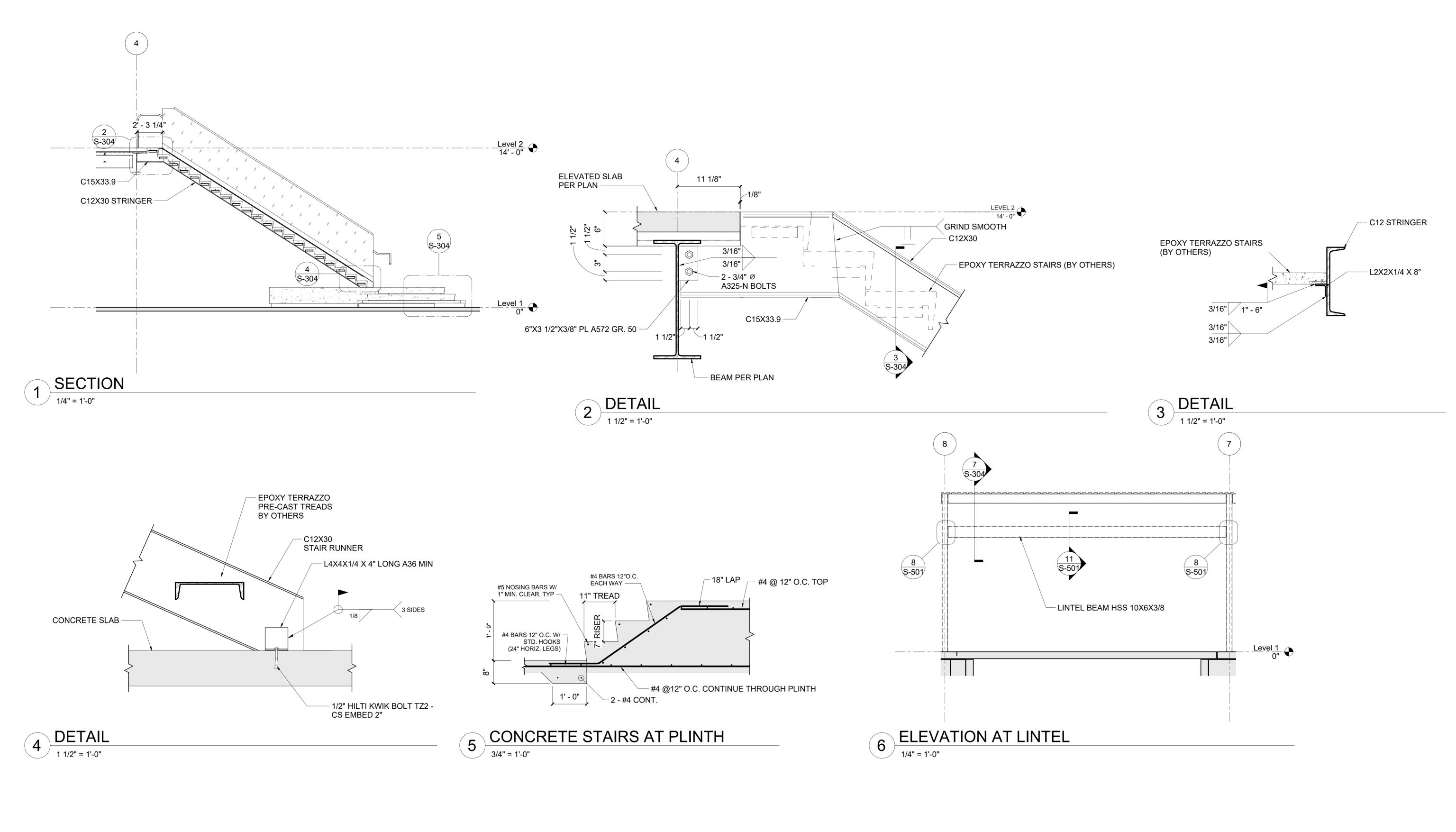
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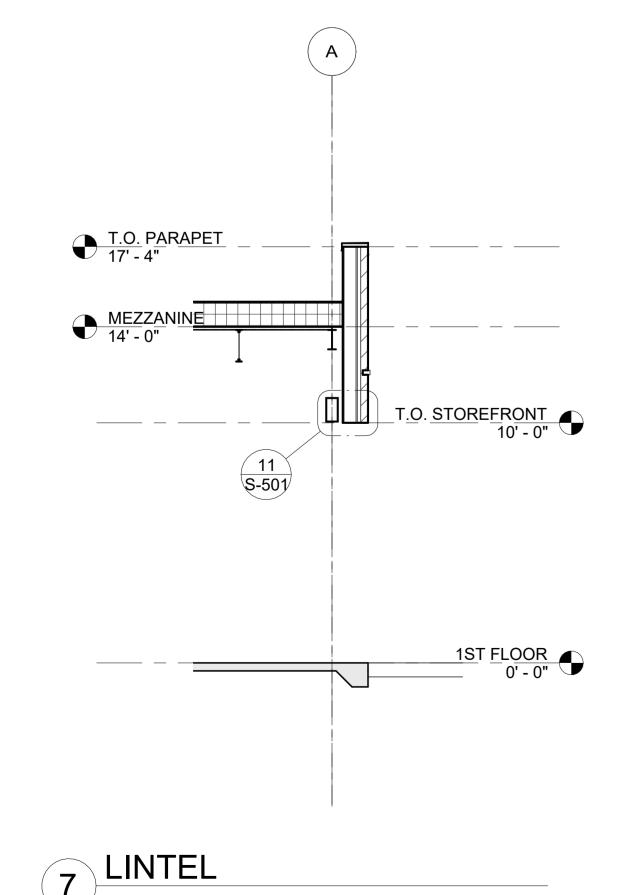
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BUILDING SECTIONS





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THOMAS C. CLAPHAM

NUMBER
PE-2003000020

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DESIGNED BY: JDH & BLL
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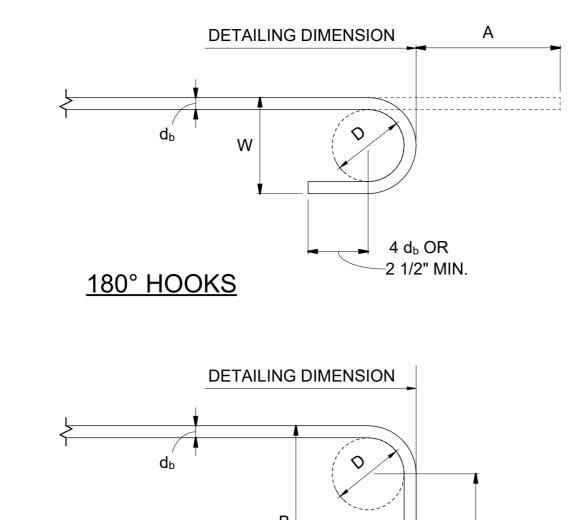
BUILDING SECTIONS

	TYPICAL LAP SPLICE LENGTHS IN INCHES, PER ACI 318								
BAR	LAP	f'c = 3,	000 psi	f'c = 4	,000 psi	f'c = 4,	500 psi	f'c = 5,	000 psi
SIZE	CLASS	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2
#4	А	22	33	19	28	18	27	17	25
#4	В	28	43	25	37	24	35	22	33
#5	Α	27	41	24	36	23	34	21	32
#5	В	36	53	31	46	30	44	28	41
#6	А	33	49	28	43	27	41	25	38
#6	В	43	64	37	55	36	53	33	50
#7	А	48	72	42	62	40	59	37	56
#1	В	62	93	54	81	51	77	48	72
#0	А	55	82	47	71	45	68	42	64
#8	В	71	106	61	92	58	88	55	83
#0	А	62	92	53	80	51	76	48	72
#9	В	80	120	69	104	66	99	62	93
#10	А	70	105	61	91	57	86	54	81
#10	В	91	136	79	118	74	111	71	106

1. FOR GRADE 60 REINFORCING STEEL BARS.

Typical Lap Splice Lengths in Inches

- 2. ALL LAP SPLICES SHALL BE CLASS B, UNLESS OTHERWISE NOTED.
- 3. LENGTH TO BE SELECTED BY CATEGORY OF BARS BEING SPLICED: 3.1. CATEGORY 1: CLEAR COVER ≥ d_b AND CLEAR SPACING ≥ d_b, AND STIRRUPS OR TIES
- THROUGHOUT L_d ARE PROVIDED.
- 3.2. CATEGORY 1: CLEAR COVER ≥ d_b AND CLEAR SPACING ≥ 2d_b.
- 3.3. CATEGORY 2: CLEAR COVER >< db OR CLEAR SPACING < 2db. 4. FOR TOP BARS, MULTIPLY LAP LENGTH LISTED BY 1.30. TOP BARS ARE HORIZONTAL BARS WITH MORE
- THAN 12" OF CONCRETE CAST BELOW THE BARS.
- 5. FOR EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.20.

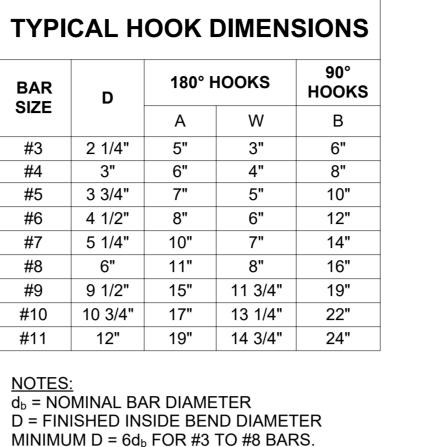


12 d_b

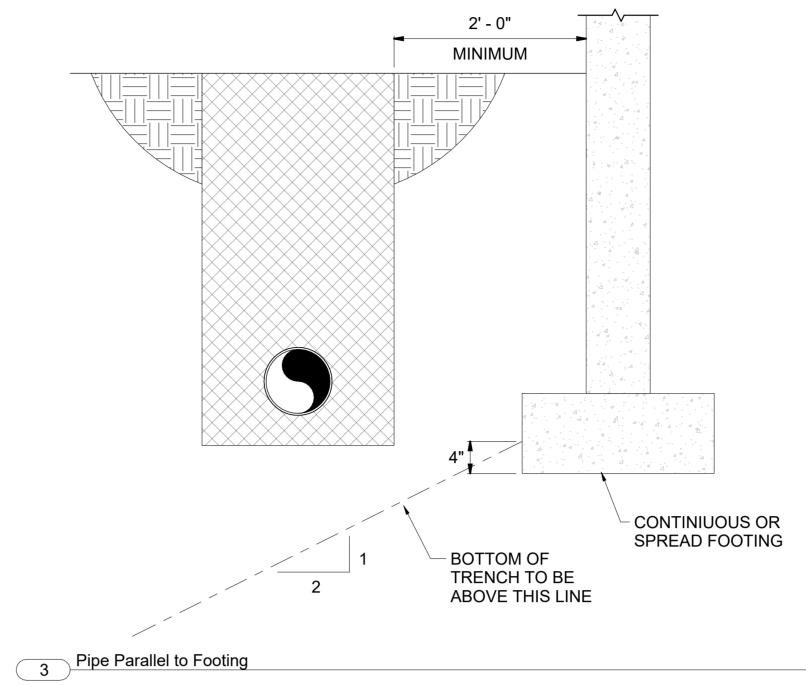
STEEL REINFORCEMENT

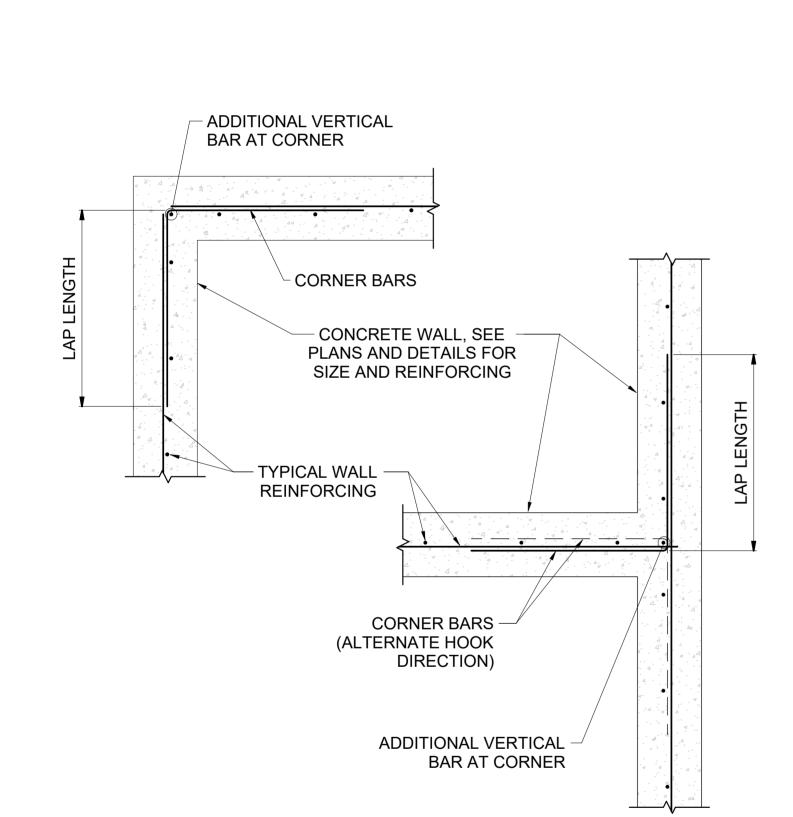
90° HOOKS

2 Typical Rebar Hooks



MINIMUM D = $8d_b$ FOR #9 TO #11 BARS. MINIMUM D = $10d_b$ FOR #14 TO #18 BARS.





Corner Reinforcement for Concrete Walls - Single Mat

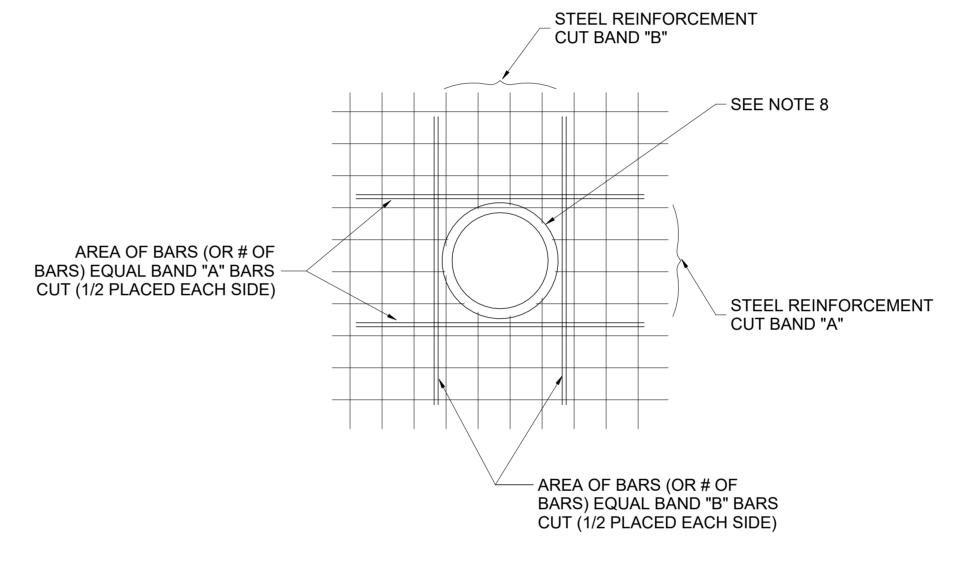
CUT BAND "B" SEE NOTE 8 AREA OF BARS (OR # OF BARS) EQUAL BAND "A" BARS -CUT (1/2 PLACED EACH SIDE) STEEL REINFORCEMENT CUT BAND "A" - AREA OF BARS (OR # OF BARS) EQUAL BAND "B" BARS CUT (1/2 PLACED EACH SIDE)

- NOTES:

 1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS INDICATED OTHERWISE
- 2. COORDINATE PLACEMENT OF ALL PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN TWO METALS.
- 3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES, INSERTS OR EMBEDMENTS.
- 4. PROVIDE A MINIMUM OF TWO (2) "A" BARS AND TWO (2) "B" BARS EACH SIDE OF OPENING (ONE
- 5. SPACE BARS AT 3 BAR DIAMETERS (OR 3" MIN.) ON CENTER.
- 6. IF OPENING REINFORCING TERMINATES AT THE EDGE OF THE SLAB PROVIDE A STANDARD
- HOOK ON THE "EDGE" SIDE OF THE REINFORCING. 7. CONTINUE SPLICE REINFORCEMENT THROUGH ON SPAN LENGTH PLUS REQUIRED EMBEDMENT
- 8. PROVIDE DIAGONAL BARS ACCORDING TO THE FOLLOWING:

Typical Opening Reinforcement - Rectangular

- 8.1. OPENINGS UP TO 30" WIDE: (1) #5 x 4'-0" AT EACH CORNER, EACH FACE.
- 8.2. OPENINGS GREATER THAN 30" WIDE: (1) #5 x 6'-0" AT EACH CORNER, EACH FACE.



- NOTES:
 1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS INDICATED OTHERWISE
- 2. COORDINATE PLACEMENT OF ALL PIPING AND REINFORCING STEEL SO THAT NO CONTACT
- EXISTS BETWEEN TWO METALS.
- 3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES, INSERTS OR EMBEDMENTS. 4. PROVIDE A MINIMUM OF TWO (2) "A" BARS AND TWO (2) "B" BARS EACH SIDE OF OPENING (ONE
- EACH FACE).
- 5. SPACE BARS AT 3 BAR DIAMETERS (OR 3" MIN.) ON CENTER. 6. IF OPENING REINFORCING TERMINATES AT THE EDGE OF THE SLAB PROVIDE A STANDARD
- HOOK ON THE "EDGE" SIDE OF THE REINFORCING.
- 7. CONTINUE SPLICE REINFORCEMENT THROUGH ON SPAN LENGTH PLUS REQUIRED EMBEDMENT
- LENGTH. 8. PROVIDE HOOP BARS ACCORDING TO THE FOLLOWING:
- 8.1. OPENINGS UP TO 30" DIAMETER: (1) #4 BAR, DIAMETER OF OPENING + 8" WITH 12" LAP,
- 8.2. OPENINGS GREATER THAN 30" DIAMETER: (1) #5 BAR, DIAMETER OF OPENING + 8" WITH

9. AT CIRCULAR OPENING PIPE PENETRATIONS, CONTRACTOR SHALL CAST PIPE IN SEEP RING.

Typical Opening Reinforcement - Circular



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MIN, 3217

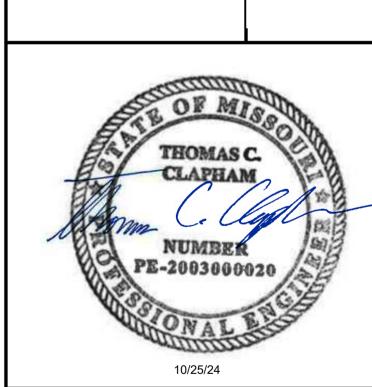
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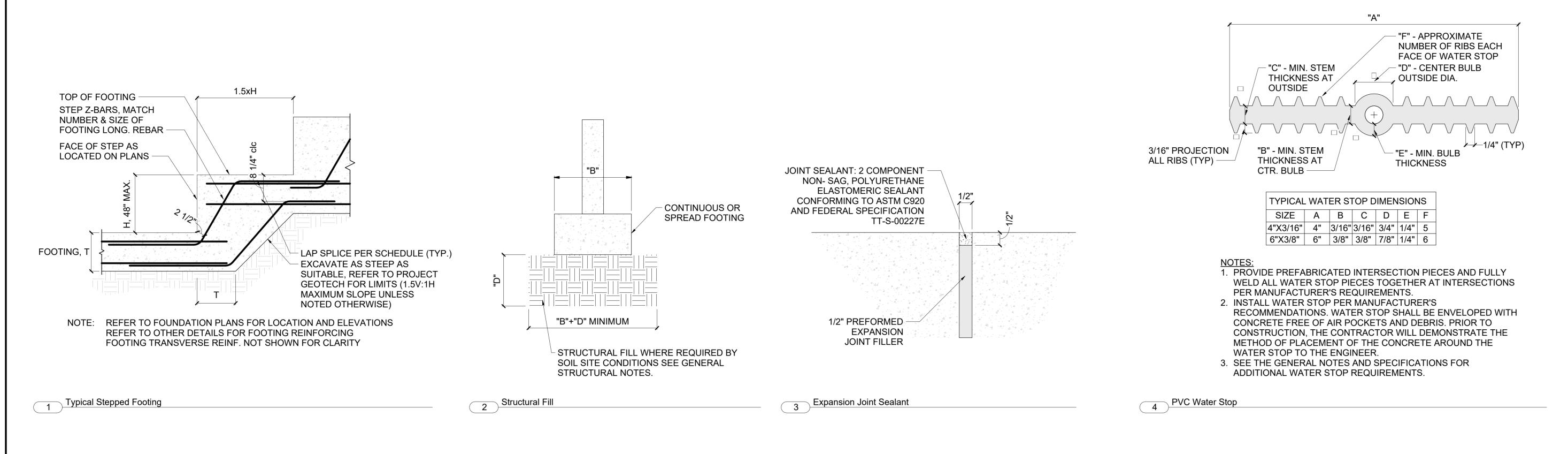
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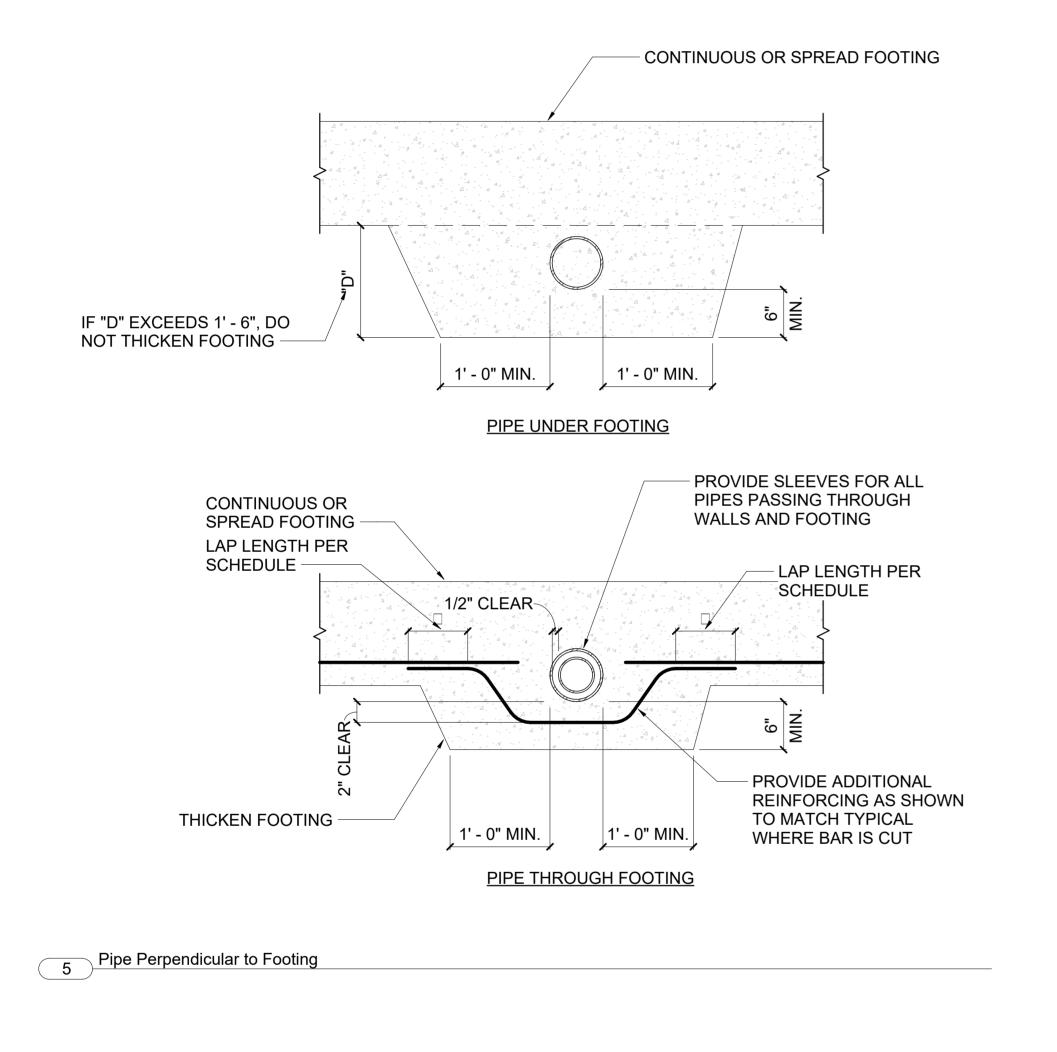
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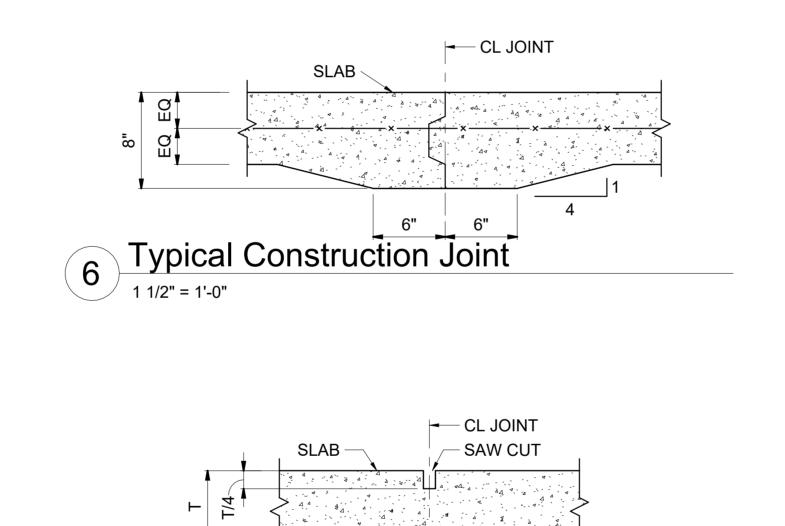
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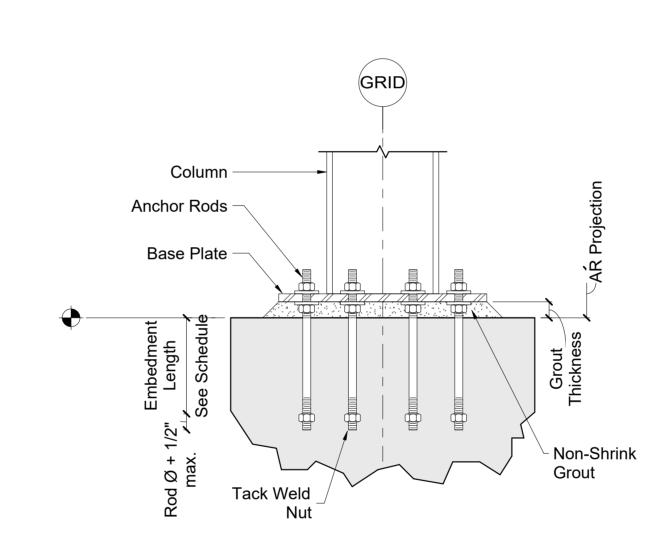
STANDARD DETAILS











8 Anchor Rod Detail



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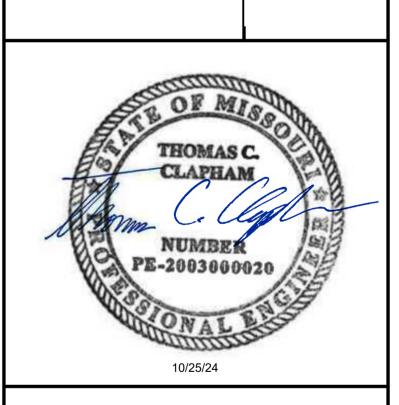
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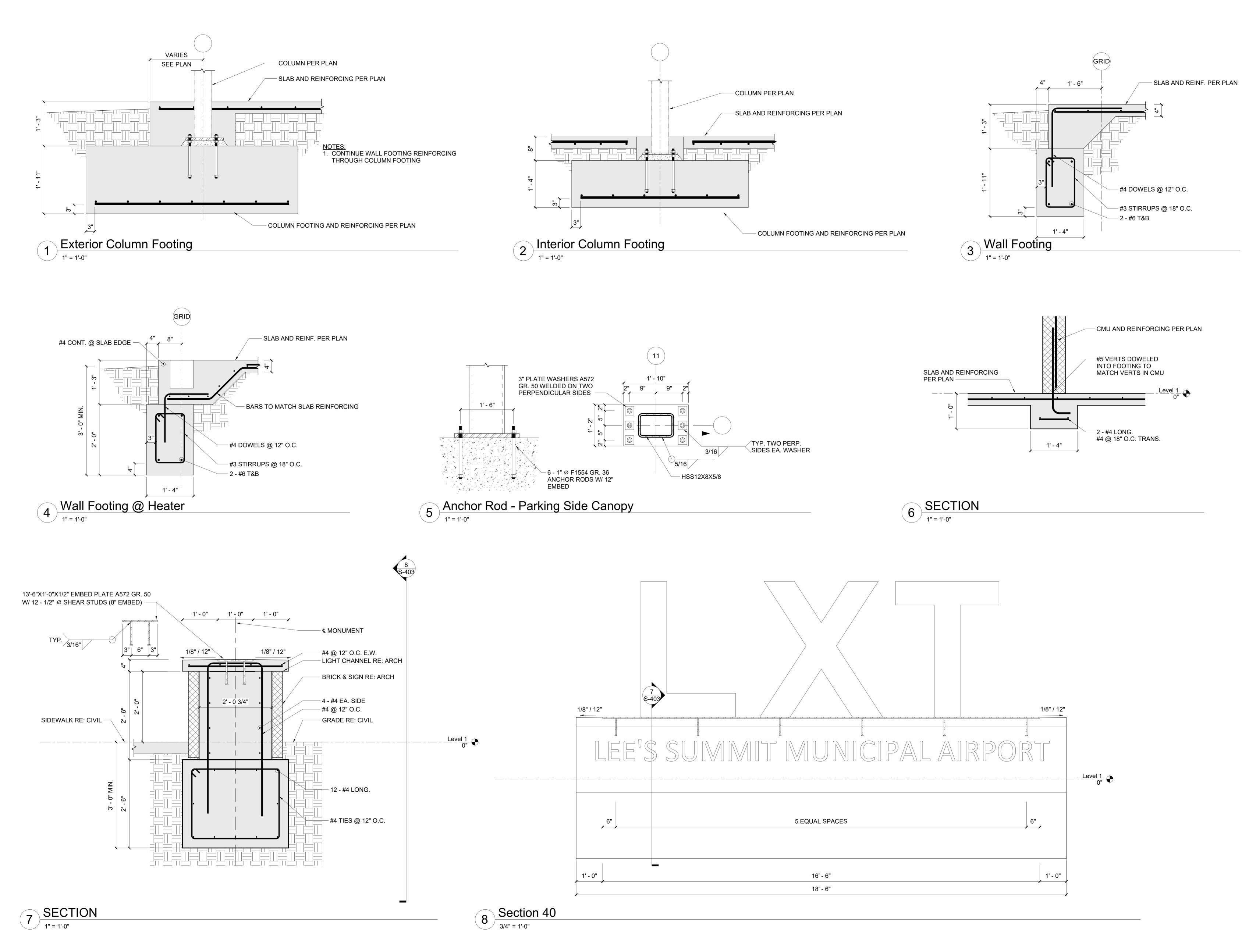
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STANDARD DETAILS





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TERMINAL - 17932172

GENERAL AVIATION CITY PORJECT NO.

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

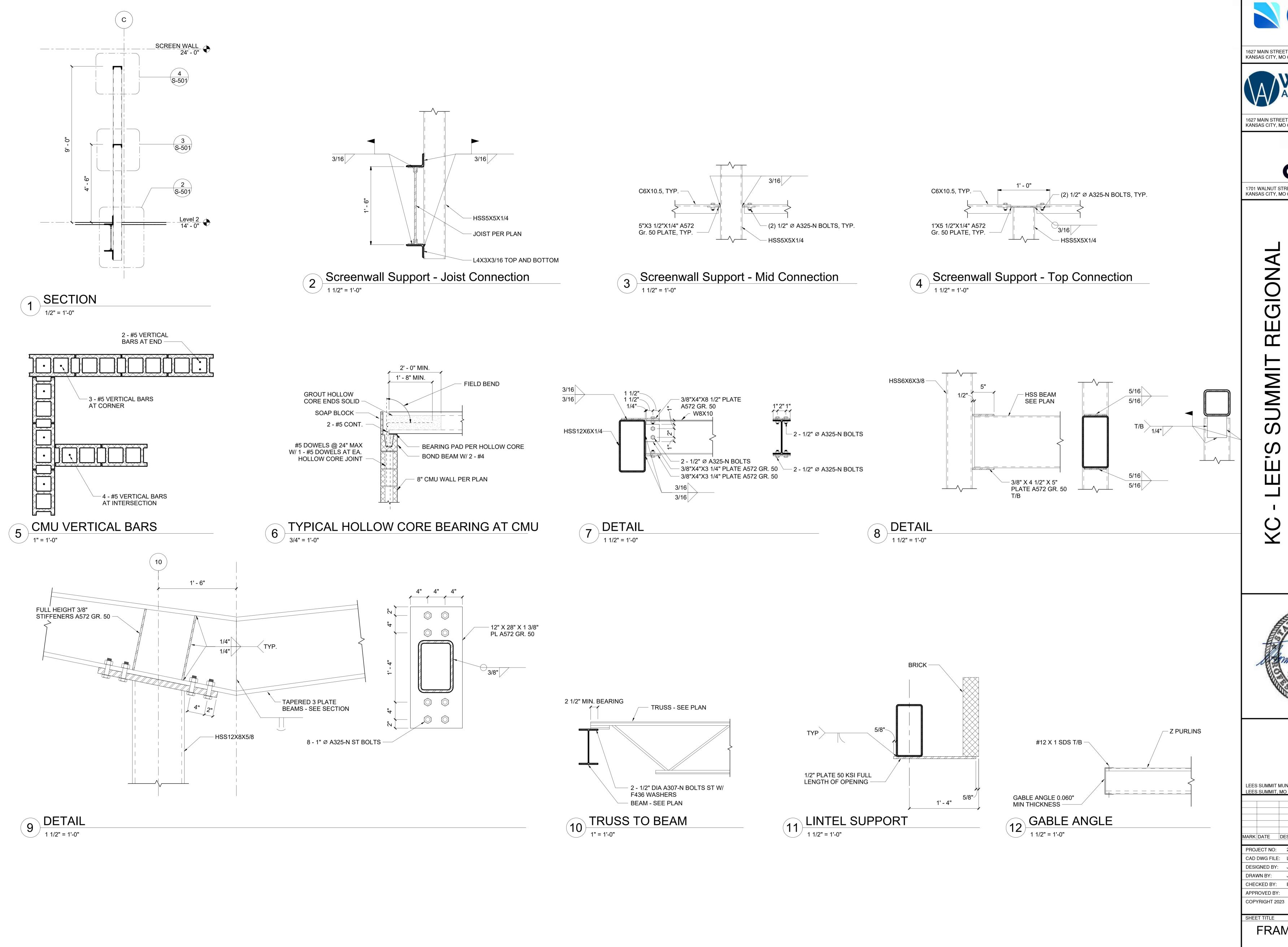
LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 24KC50013 CAD DWG FILE: Lee's Summit - Hangar 2.rvt DESIGNED BY: JDH & BLL DRAWN BY: JDH

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FOUNDATION DETAILS



CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108



TERMINAL - 17932172

GENERAL AVIATION CITY PORJECT NO.

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

REGION

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY LEES SUMMIT, MO

MARK DATE DESCRIPTION PROJECT NO: 24KC50013

CAD DWG FILE: Lee's Summit - Hangar 2.rvt DESIGNED BY: JDH & BLL DRAWN BY: JDH CHECKED BY: BLL

SHEET TITLE

FRAMING DETAILS



KANSAS CITY, MO 64108



1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

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CORY WILSON 01.03.2025 NUMBER PE-2010009876

Cory Wilson - MO #PE-2010009876

Certificate of Authority - MO #2024005146

01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT

CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

MARK DATE DESCRIPTION PROJECT NO: 2403

DESIGNED BY: CMW DRAWN BY: DM CHECKED BY: WAI

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LEES SUMMIT, MO

SHEET TITLE MEP SYMBOLS LEGEND

> ME000 SHEET 77 OF 102

----- MATCHLINE

			GENERAL A	BBRE	EVIATIONS				GENERAL NOTES	
	GENERAL	FM	FACTORY MUTUAL	PSF	POUNDS PER SQUARE FOOT	SYSTEM		ELECTRICAL GENERAL NOTES	LIGHTING GENERAL NOTES	MECHANICAL GENERAL NOTES
A	BBREVIATIONS:	FPM FT	FEET PER MINUTE FEET (FOOT)	PSI PVC	POUNDS PER SQUARE INCH POLYVINYL CHLORIDE	EMS SYSTEM	ENERGY MANAGEMENT			
A/C	AIR CONDITIONING(ER)	FTG	FOOTING	RA	RETURN AIR	EMT TUBING	ELECTRICAL METALLIC	ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH 2018 NATIONAL ELECTRIC CODE (NEC).	1. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC).
ADDN ADJ	ADDITION OR ADDITIONAL ADJUSTABLE	GA GAL	GAUGE GALLON	RCP REF	REFLECTED CEILING PLAN REFERENCE	EQUIP. EWC	EQUIPMENT ELECTRIC WATER COOLER	2. INSTALL ALL WIRING IN RACEWAYS. OPEN WIRING IS PROHIBITED.	2. COORDINATE ALL SCHEDULING, ELEVATIONS, SIZES, QUANTITIES, AND ROUTING OF WORK WITH OWNER AND OTHER TRADES.	2. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING,
ADJT	ADJACENT	GALV	GALVANIZED	RH	RELATIVE HUMIDITY	EWH	ELECTRIC WATER HEATER	3. WHERE SURFACE WIRING IS REQUIRED, SURFACE MOUNTED RACEWAY (WIREMOLD OR APPROVED EQUAL) SHALL BE USED AND PAINTED TO MATCH ADJACENT	3. FIELD VERIFY SIZE, LOCATION, ELEVATION AND QUANTITY OF ALL	DUCTWORK CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
ADMIN	ADMINISTRATION	GCO	GRADE CLEANOUT	RHP	RADIANT HEATING PANEL	EX FLEX	EXISTING FLEXIBLE METALLIC	SURFACES (UNLESS SPECIFIED COLOR WAS PROVIDED). COORDINATE ALL SURFACE MOUNTED CONDUIT AND RACEWAY ROUTING WITH OWNER AND ENGINEER.	ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PIPING EQUIPMENT AND COMPONENTS THAT MAY IMPACT IMPLEMENTATION OF THIS WORK.	3. CONTRACTOR SHALL SUBMIT HVAC SHEET METAL PLANS WITH ACTUAL FITTINGS AND LAYOUT PER THE SHOP FABRICATION.
A.F.F. A.F.G.	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	GOVT GPH	GOVERNMENT GALLONS PER HOUR	RM RPM	ROOM ROVOLUTIONS PER MINUTE	CONDUIT GA	GAUGE	4. ALL RACEWAYS SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.	4. REPAIR OR REPLACE ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT OR COMPONENTS DAMAGED WHILE EXECUTING THIS WORK. SUCH	4. REFER TO EXISTING STRUCTURAL PLANS, OR VERIFY IN FIELD, THE LOCATION OF
AHU	AIR HANDLING UNIT	GPM	GALLONS PER MINUTE	RTU	ROOFTOP UNIT	GFI INTERRUPTER	GROUND FAULT	5. PROVIDE ALL MOTORS WITH A LOCAL DISCONNECT SWITCH (UNFUSED UNLESS	REPAIRS OR REPLACEMENTS SHALL MATCH OR EXCEED EXISTING EQUIPMENT OR COMPONENT FINISH AND QUALITY.	ALL STRUCTURAL MEMBERS. NEW ROOF PENETRATIONS AND ROOF CURBS FOR EQUIPMENT ON ROOF ARE SHOWN SCHEMATICALLY AND SHALL BE COORDINATED
ALT ALUM	ALTERNATE ALUMINUM	HOA HP	HANDS-OFF-AUTOMATIC HORSEPOWER	SA SAN	SUPPLY AIR SANITARY WASTE	GRS	GALVANIZED RIGID STEEL	OTHERWISE NOTED) LOCATED AT THE MOTOR OR A MAXIMUM OF 5FT AWAY, WITHIN SIGHT.	5. ALL ELECTRICAL BOXES SHALL BE GALVANIZED STEEL. BACK BOXES MOUNTED ON GALVANIZED STUDS SHALL HAVE BETWEEN STUD MOUNTING BRACKETS EQUAL	WITH EXISTING STRUCTURAL MEMBERS. 5. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS AT CONNECTIONS TO
AMB	AMBIENT	HR	HOUR	SCW	SOFT COLD WATER	HZ INC	HERTZ INCANDESCENT	6. NO MORE THAN SIX RECEPTACLES SHALL BE INSTALLED ON A SINGLE BRANCH CIRCUIT FOR GENERAL USE. GFCI RECEPTACLES SHALL NOT SERVE OTHER	TO 'CADDY' #RBS16 OR #RBS24. PROVIDE 3/4" MUD RINGS WHERE LOCATED IN WALLS WITH 5/8" THICK GYPSUM WALLBOARDS.	ALL DUCTED MECHANICAL EQUIPMENT.
APPROX	APPROXIMATE	HTG	HEATING	SD	SMOKE DAMPER	ION DETECTOR	IONIZATION SMOKE	RECEPTACLES FROM THEIR LOADSIDE TERMINALS.	6. PROVIDE DEVICE AND EQUIPMENT LABELING PER THE SPECIFICATIONS. ALL	6. COORDINATE ROUTING OF DUCTWORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES IN CEILING PLENUM.
AUTO BHP	AUTOMATIC BREAK HORSE POWER	HTR HVAC	HEATER HEATING, VENTILATING, & AIR	SD SECT	SMOKE DETECTOR SECTION	JB	JUNCTION BOX (J-BOX)	7. TELECOMMUNICATION OUTLET BOXES SHALL BE MINIMUM SIZE AS NEC STANDARD 6"x6"x2.5" THAT COULD CONTAIN DUAL DUPLEX ELECTRICAL OUTLETS, RECESSED TO ALLOW EMT OR FLEXIBLE CONDUIT TO TERMINATE ON THEM.	PANELBOARDS SHALL BE PROVIDED WITH AN UPDATED TYPED CIRCUIT DIRECTORY WITH CIRCUIT NUMBERS AND EQUIPMENT SERVED.	7. MAINTAIN ALL MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.
BLDG	BUILDING	CONDITIO	ONING DOMESTIC HOT WATER	SENS	SENSIBLE	MCC N/A	MOTOR CONTROL CENTER NOT APPLICABLE	8. WALL MOUNTED JUNCTION BOXES SHALL BE EQUIPPED WITH FULL COVERED	7. ALL POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.	COORDINATE ALL CEILING INSTALLED EQUIPMENT AND DIFFUSER, REGISTER, AND
BLK BMS	BLOCK BUILDING MANAGEMENT SYSTEM	HWC	DOMESTIC HOT WATER	SF SP	SQUARE FOOT (FEET) STATIC PRESSURE	N.A.	NON-FUSIBLE NIGHT LIGHT	STAINLESS STEEL WALL FACEPLATES THAT SHALL COVER THE ENTIRE BOX WITHOUT TRIM RINGS ADDED.	8. CONFIRM THAT NO WIRING CIRCUIT EXCEEDS 1920VA (120V).	GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
BOF	BOTTOM OF FOOTING	CIRCULA		SPEC	SPECIFICATIONS	PC	PLENUM CABLE	9. TELECOM J-BOXES SHALL EMPLOY TWO EACH MODULAR CAT 6 (OR BETTER) RJ-45	9. ALL WALL OCCUPANCY SENSORS AND COVERPLATES SHALL BE GREY IN COLOR. ALL STANDARD TOGGLE SWITCHES SHALL BE GREY IN COLOR AN COVERPLATES SHALL BE STAINLESS STEEL. REFERENCE ELECTRICAL PAN	9. ROUND BRANCH TAKE-OFF FITTINGS TO DIFFUSERS SHALL BE BELLMOUTH TYPE
BSMT BTU	BASEMENT BRITISH THERMAL UNIT	HZ	HEAT EXCHANGER HERTZ	SQ	SQUARE	PH P	PHASE PHOTOELECTRIC SMOKE	JACKS FOR VOICE/DATA. VERIFY STANDARD CABLING WITH OWNER PRIOR TO BID. 10. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES, AND ELEVATIONS OF	SPECIFICATIONS.	EXCEPT LOCATIONS WHERE LISTED DUCT HEIGHT DOES NOT ACCOMODATE. IN THIS CASE PROVIDE HIGH EFFICIENCY 45 DEGREE RECTANGULAR TO ROUND (HETO) FITTING. BOTH OF THESE FITTINGS ARE REQUIRED IN ALL
BTUH	BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER	IBC	INTERNATIONAL BUILDING CODE	SS STD	STAINLESS STEEL STANDARD	DETECTOR PNL	PANEL	MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS THAT MAY IMPACT IMPLEMENTATION OF THIS WORK PRIOR TO MAKING BIDS.	10. FOR ANY EMERGENCY OR NIGHT LIGHT FIXTURE, A CONSTANT HOT CONDUCTOR SHALL BE ROUTED TO FIXTURE WHETHER IT IS SHOWN OR NOT.	CIRCUMSTANCES. ALL ROUND BRANCH TAKE-OFF FITTINGS TO DIFFUSERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER.
HOUR CFH	CUBIC FEET PER HOUR	ID IE	INSIDE DIAMETER INVERT ELEVATION	STOR	STORAGE	PVC	POLYVINYL CHLORIDE	11. CONTRACTOR SHALL COORDINATE AND EXPEDITE ALL WORK WITH OTHER TRADES AND OWNER.	11. EXIT LIGHT FIXTURES MOUNTED ON WALLS SHALL BE AT LEAST 8" ABOVE DOOR HEADER OR PER DRAWING ELEVATIONS.	10. BRANCH DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK
CFM	CUBIC FEET PER MINUTE	IMC	INNTERNATIONAL MECHANICAL	SWP T	STEAM WORKING PRESSURE THERMOSTAT	RM. SYMM.	ROOM SYMMETRICAL	12. ALL OVERCURRENT PROTECTIVE DEVICES INSTALLED UNDER THIS CONTRACT	12. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION ON	UNLESS NOTED OTHERWISE. MAXIMUM LENGTH OF FLEXIBLE DUCT ROUTING TO BE 5'-0" (NO EXCEPTIONS).
CI	CAST IRON	CODE IN	INCH	TA	TRANSFER AIR	SYS. TV	SYSTEM TELEVISION	SHALL MEET THE INTERRUPTING CAPABILITY OF THE SCHEDULES. "SERIES RATING" SHALL BE ALLOWED.	FIXTURE TYPE AND CONTROLS.	11. INSTALL TEMPERATURE SENSORS/THERMOSTATS/CO2 SENSORS AT 48" AFF. COORDINATE LOCATIONS WITH LIGHT SWITCHES. THERMOSTAT BOXES AND
CIRC CLG	CIRCULATING CEILING	INC	INCLUDE(ING)	TDH TEMP	TOTAL DYNAMIC HEAD	TYP	TYPICAL	13. CONTRACTOR SHALL BE RESPONSIBLE FOR ARC FLASH STUDY AND LABELS PER		CONDUITS TO ABOVE CEILING ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
СМИ	CONCRETE MASONRY UNIT	IPC JAN	INTERNATIONAL PLUMBING CODE JANITOR	TEMP TEMP	TEMPORARY TEMPERATURE	V VA	VOLT VOLT AMPS	NEC. 14. ALL WIRING TO BE CONTINUOUS WITHOUT SPLICES UNLESS OTHERWISE NOTED.		12. CONTRACTOR SHALL REPAIR OR REPLACE LAY-IN OR GYPBOARD CEILINGS AS NECESSARY TO INSTALL NEW DUCTWORK, PIPING AND ELECTRICAL CONDUITS.
CO CO2	CLEANOUT CARBON DIOXIDE	JST	JOIST	THK	THICK(NESS)	W WP	WATTS WEATHER PROOF	15. NO POWER AND CONTROL WIRING SHALL BE RUN IN SAME CONDUIT.		13. ALL EXISTING PLUMBING WASTE, WATER, AND VENT PIPING LOCATION AND
COL	COLUMN	KVA	KILOVOLT AMPERES	TOC TOF	TOP OF CONCRETE TOP OF FOOTING	XFMR.	TRANSFORMER	16. FINAL ROUTING OF CONDUITS IS TO BE DETERMINED BY THE CONTRACTOR. INFORM		ROUTING SHALL BE FIELD VERIFIED.
CONC	CONCRETE	KW KWH	KILOWATT KILOWATT-HOUR	TSP	TOTAL STATIC PRESSURE	XP Ø	EXPLOSION PROOF PHASE	ENGINEER OF RECORD OF ANY MAJOR DISCREPANCY PRIOR TO PROCEEDING WITH INSTALLATION.		14. FIRE DAMPERS SHALL BE PROVIDED WHERE DUCTWORK PENETRATES ANY RATED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR FURTHER DETAILS.
CONF	CONFERENCE CONFIGURATION	LAB	LABORATORY	TYP	TYPICAL UNIFORM BUILDING CODE	RE: 3/E1	RE: = REFER TO 3 = DETAIL NUMBER	17. PROVIDE TYPED PANEL SCHEDULES POLE AND LOAD SERVED.		
CONST	CONSTRUCTION	LAT LB	LEAVING AIR TEMPERATURE POUND	UBC UG	UNDERGROUND		E1 = SHEET NUMBER	18. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL VISIT THE SITE AND AREA OF WORK TO FAMILIARIZE HIM OR HERSELF WITH THE EXISTING CONDITIONS.		PLUMBING GENERAL NOTES
CORR	CORRIDOR CURRENT TRANSFORMER	LBS	POUNDS	UH	UNIT HEATER					ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF
CU	COPPER	LF LTG	LINEAR FOOT (FEET) LIGHTING	UL UNO	UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE					THE INTERNATIONAL PLUMBING CODE (IPC).
CUH	CONDENSING UNTI CABINET UNIT HEATER	LWT	LEAVING WATER TEMPERATURE	UTIL	UTILITY					COORDINATE 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
CW	COLD WATER	MA	MIXED AIR	V VAV	VOLT VARIABLE AIR VOLUME					CAREFULLY BETWEEN ALL TRADES.
DB	DRY BULB	MATL MAU	MATERIAL MAKE-UP AIR UNIT	VCT	VINYL COMPOSITION TILE					3. MAINTAIN MANDATORY 10'-0" SEPARATION FROM ALL VENTS/EXHAUST AND OUTSIDE AIR INTAKES. REFER TO MECHANICAL PLANS PRIOR TO ROUGH-IN.
DBA DD	DECIBEL A-SOUND LEVELS DIRECT DIGITAL	MAX	MAXIUM	VD	VOLUME DAMPER - MANUAL					4. ALL DOMESTIC WATER, WASTE, AND VENT PIPING SHALL BE ROUTED TIGHT TO STRUCTURE. COORDINATE ROUTING WITH ALL TRADES.
DEG	DEGREE	MBH MBTUH	THOUSAND BTU PER HOUR THOUSAND BTU PER HOUR	VEL VERT	VELOCITY VERTICAL					5. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO
DEPT	DEPARTMENT DUCTILE IRON	MCA	MINIMUM CIRCUIT AMPS	VFD	VARIABLE FREQUENCY DRIVE					ARCHITECTURAL PLANS FOR DIMENSIONS. IF ANY DISCREPANCIES OCCUR FROM THESE PLANS, CONTACT A/E IMMEDIATELY.
DIA	DIAMETER	MCC	MOTOR CONTROL CENTER	VOL VTR	VOLUME VENT THROUGH ROOF					6. UNLESS NOTED OTHERWISE, MAINTAIN MINIMUM 1/8" PER 1'-0" SLOPE ON ALL DRAINAGE PIPING.
DIM	DIMENSION	MECH MEZZ	MECHANICAL MEZZANINE	W	WIDE, WIDTH					7. ALL PLUMBING PIPING SHALL BE INSULATED / JACKETED PER SPECIFICATIONS.
DISC	DISCONNECT DISCHARGE	MFR	MANUFACTURER	W W/	WATT WITH					8. ALL PLUMBING MATERIALS SHALL BE PER SPECIFICATIONS AND SCHEDULES.
DISTR	DISTRIBUTION	MFRG MIN	MANUFACTURING MINIMUM	W/O	WITHOUT					
DN DTL	DOWN DETAIL	MISC	MISCELLANEOUS	WB	WET BULB					
DWG	DRAWING	N/A NC	NON APPLICABLE NORMALLY CLOSED	wco	WATER COLUMN WALL CLEAN OUT					
EA EA	EACH EXHAUST AIR	NC NC	NOISE CRITERIA	WH	WALL HYDRANT					
EAT	ENTERING AIR TEMPERATURE	NEC	NATIONAL ELECTRIC CODE	WT XFMR	WEIGHT TRANSFORMER					
EEW EWWS	EMERGENCY EYEWASH	NEMA MANUFA	NATIONAL ELECT CTURER'S ASSN	YH	YARD HYDRANT					
EWWS EF	EMERGENCY EYEWASH/SHOWER EXHAUST FAN	NIC NO	NOT IN CONTRACT NORMALLY OPEN	& @	AND AT					
EFF	EFFICIENCY	NTS	NOT TO SCALE	@ i.e.	THAT IS					
EL ELEC	ELEVATION ELECTRIC(AL)	OA	OUTSIDE AIR	#	NUMBER					
ELEV	ELEVATOR	OC OD	ON CENTER OUTSIDE DIAMETER							
ENCL EQUIP	ENCLOSURE EQUIPMENT	OPP	OPPOSITE		ELECTRICAL					
EQUIP	EXTERNAL STATIC PRESSURE	OS&Y P/T	OUTSIDE SCREW & YOKE PRESSURE/TEMPERATURE TEST	А	BBREVIATIONS:					
EST	ESTIMATE	PORT			<u>-</u>					
EWT TEMPERA	ENTERING WATER TURE	PCF PF	POUNDS PER CUBIC FOOT PRESSURE DROP	A OR AM AC	IP AMPER(S) ALTERNATING CURRENT					
EXPL	EXPLOSION	PERF	PERFORATED	A.F.F.	ABOVE FINIS					
EXT F	EXTERIOR FAHRENHEIT	PERP	PERPENDICULAR	APPROX ARCH.	APPROXIMATELY ARCHITECT					
FA	FRESH AIR	PH PIC	PHASE PRESSURE INDEPENDENT	AWG	AMERICAN WIRE GAUGE BREAKER					
FD FCO	FIRE DAMPER FLOOR CLEANOUT	CONTRO	-	BKR. C	CONDUIT					
FCU	FAN COIL UNIT	PIV PLBG	POST INDICATOR VALVE PLUMBING	COMM. D	COMMUNICATIONS DEEP					
FDC	FIRE DEPARTMENT CONNECTION	PNEU	PNEUMATIC	DISC	DISCONNECT SWITCH					
FIG FL	FIGURE FLOOR	PREFAB PRV	PREFABRICATED PRESSURE REDUCING VALVE	DWGS. ELECT.	DRAWINGS ELECTRICAL					
1			3 v/ ta v ta	EMCS	ENERGY MANAGEMENT					
1										

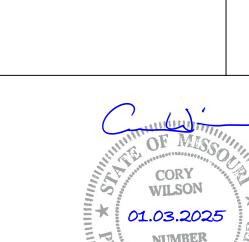




1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108



1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108



Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146

01-02-2025

PE-2010009876

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

DESIGNED BY: CMW DRAWN BY: DM

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MEP GENERAL **NOTES AND** ABBREVIATIONS

MARK DATE DESCRIPTION PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

SHEET TITLE

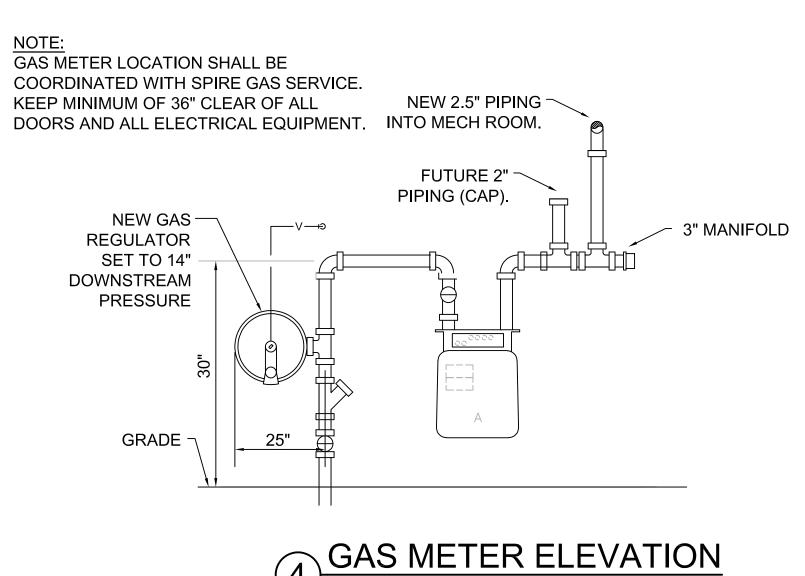
ME001 SHEET 78 OF 102

GAS CONNECTED LO	AD TABLE
EQUIPMENT:	BTUH
TANKLESS WATER HEATERS (2)	398,000
NEW RTU-1	450,000
FUTURE	150,000
TOTAL BUILDING LOAD	998,000
CONTRACTOR SHALL CONTACT XXXX WITH SPIRE REQUIREMENTS OF NATURAL GAS SERVICE, SUPPLIE	,

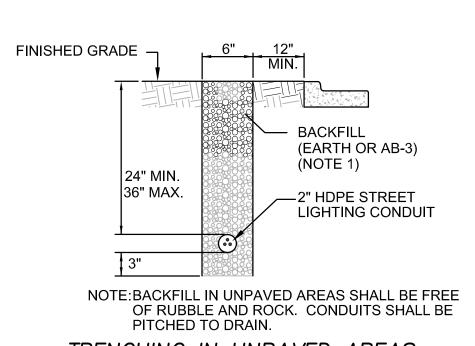
PROVIDE ALL NECESSARY MATERIALS FOR A COMPLETE INSTALLATION, INCLUDING NEW METER, NEW REGULATOR, ETC.

ESTIMATED GAS HEATING LOAD @ LOW PRESSURE (14"wc)

ГП	L330KE (14 V	vC)
METER	CFH	SIZE
А	1000	2"



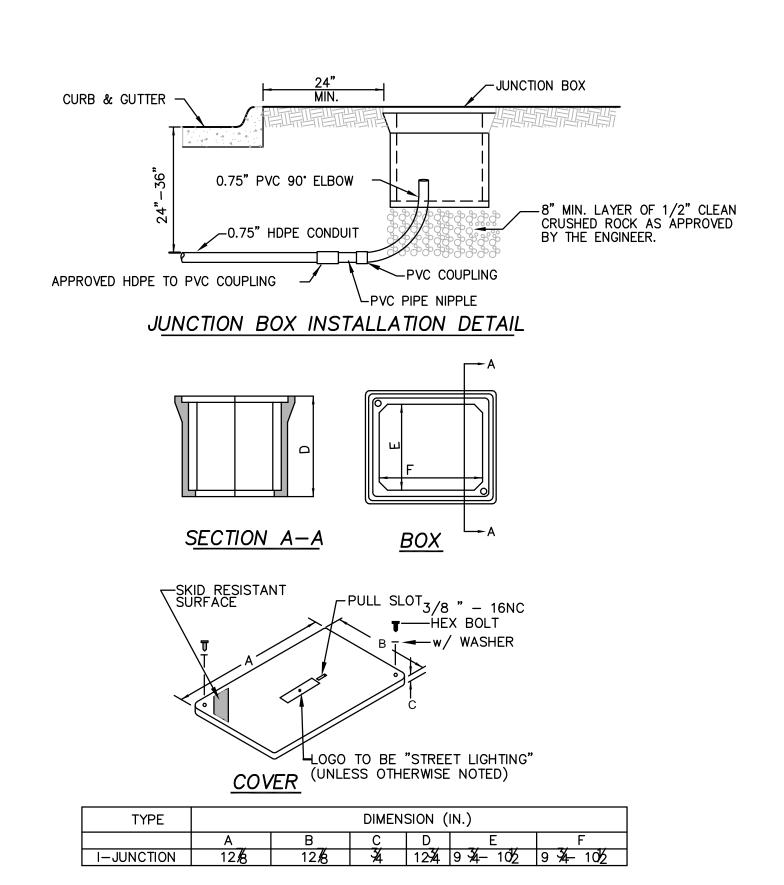
SCALE: NONE



TRENCHING IN UNPAVED AREAS

ALL TRENCHES FOR CONDUIT UNDER PROPOSED PAVED SURFACES SHALL BE BACKFILLED WITH FLOWABLE FILL.

TRENCHING DETAILS





SITE PLAN NOTES

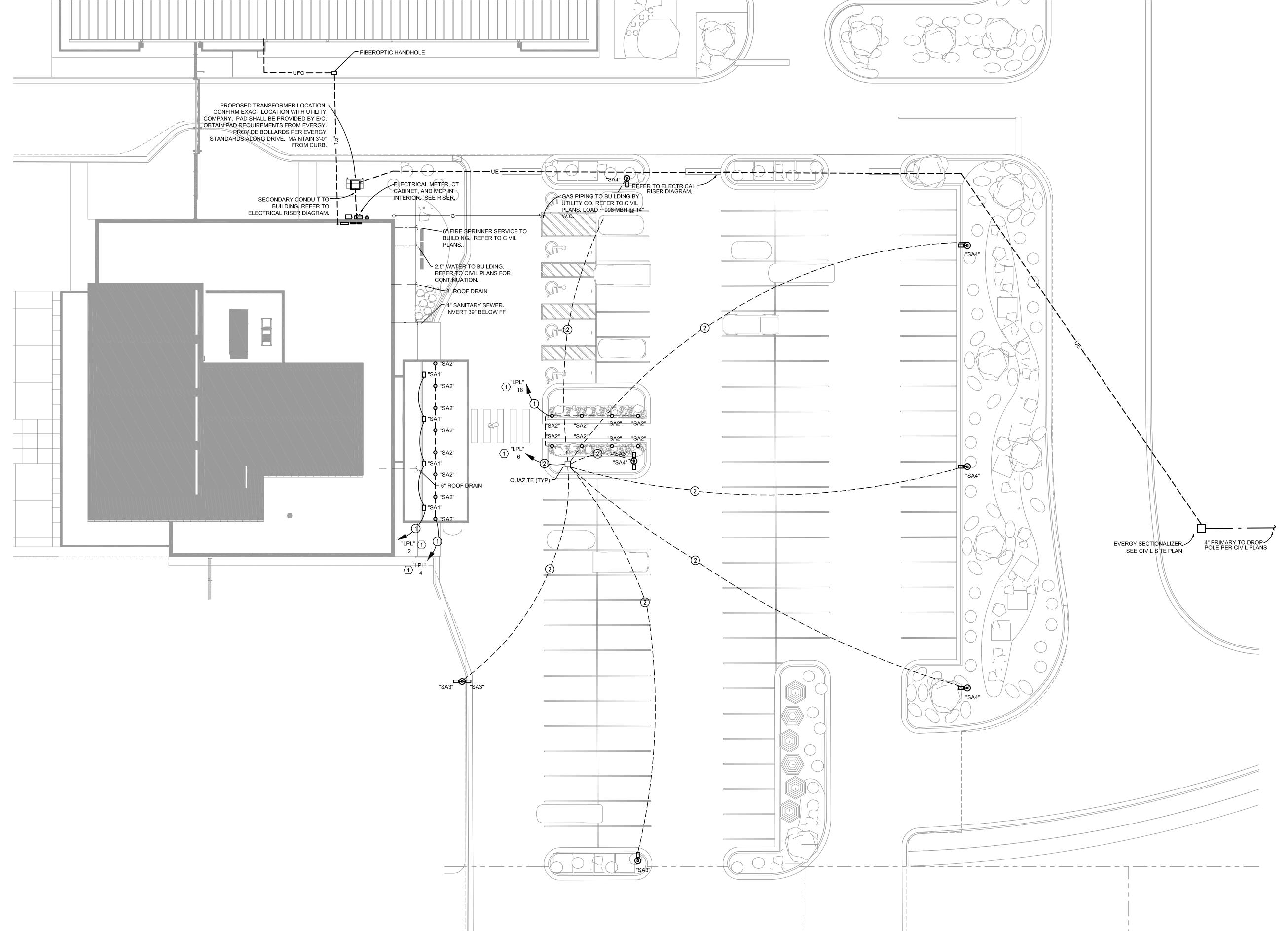
ROUTE HOMERUN VIA LIGHTING CONTROL SYSTEM "LCS1". REFER TO RELAY PANEL SCHEDULE FOR ZONE CONTROLLED BY RELAY PRIOR TO HOMERUN TO POWER PANEL. REFER TO DETAILS ON SHEET E300.

FEEDER SCHEDULE

- 1 2 #10 AND 1 #10 GROUND IN 0.75" CONDUIT.
- 2 #8 AND 1 #10 GROUND IN 0.75" CONDUIT.

GENERAL NOTES

- 1. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND FOR ROUTING OF ALL UTILITIES OUTSIDE
- 2. CONTRACTOR SHALL CONTACT LEE'S SUMMIT WATER DEPARTMENT AND ARRANGE FOR WATER SERVICE AND FIRE SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE REQUIREMENTS OF LOCAL AUTHORITIES.
- 3. CONTRACTOR SHALL CONTACT LEE'S SUMMIT PUBLIC WORKS AND ARRANGE FOR SEWER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SEWER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- 4. CONTRACTOR SHALL CONTACT SPIRE GAS AND ARRANGE FOR GAS 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 GAS SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- 5. CONTRACTOR SHALL CONTACT EVERGY POWER & LIGHT AND ARRANGE FOR ELECTRIC 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 LOCAL
- 6. CONTRACTOR SHALL STUB OUT A 1.5" SUPPLY LINE FOR IRRIGATION SYSTEM FROM INTERIOR BUILDING BACKFLOW PREVENTER. REFER TO CIVIL PERFORMANCE SPECIFICATION FOR SYSTEM REQUIREMENTS.





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CORY WILSON 01.03.2025 NUMBER PE-2010009876 Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

DESIGNED BY: CMW DRAWN BY: DM CHECKED BY: WAI APPROVED BY: Approver

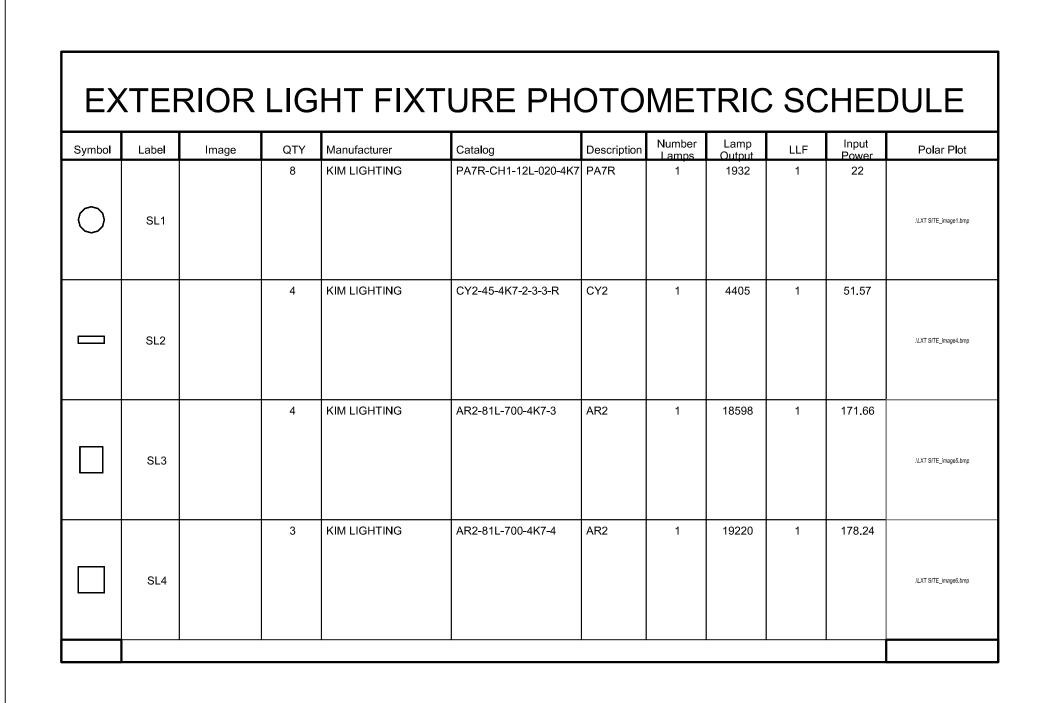
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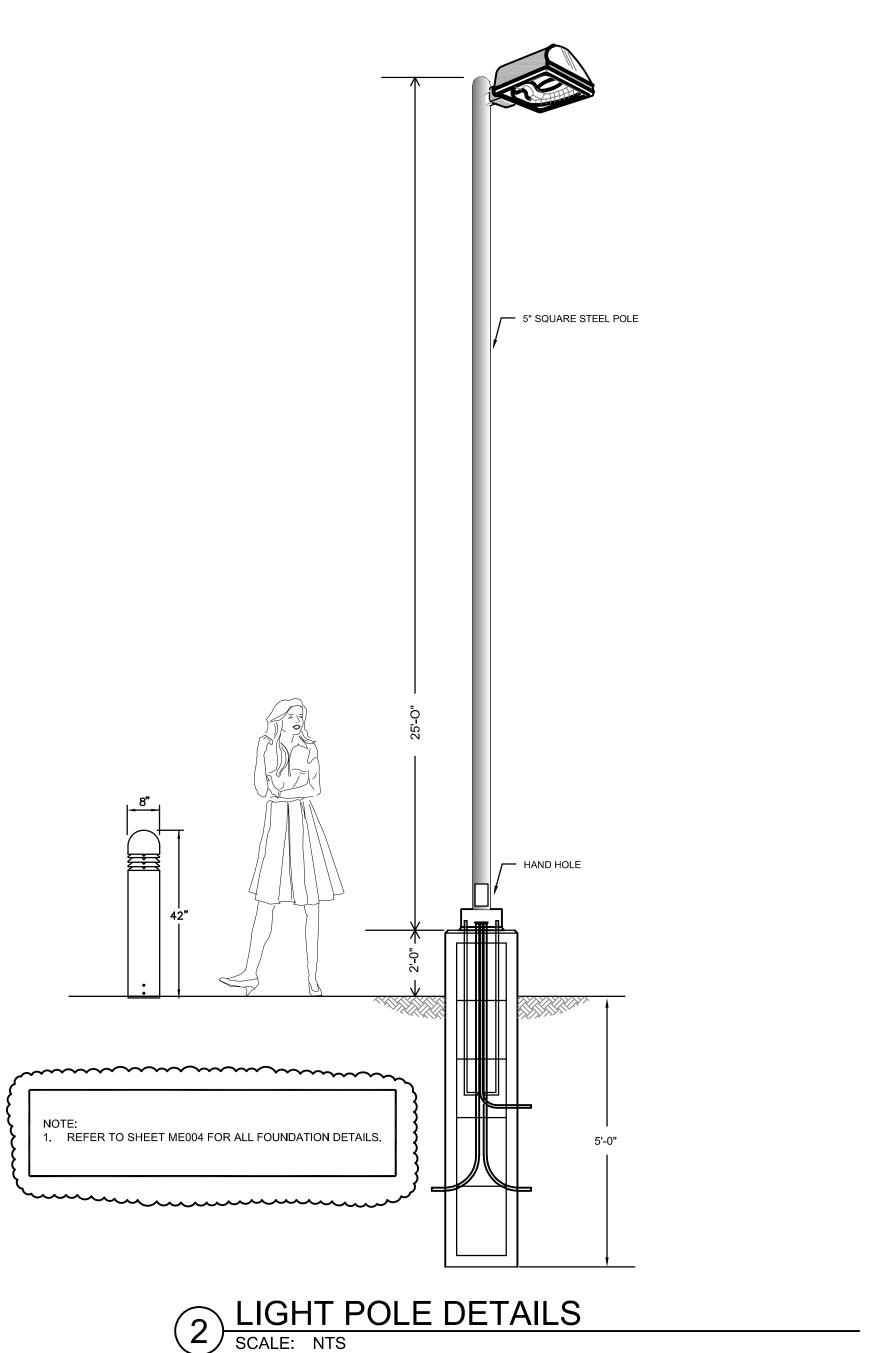
MEP SITE PLAN

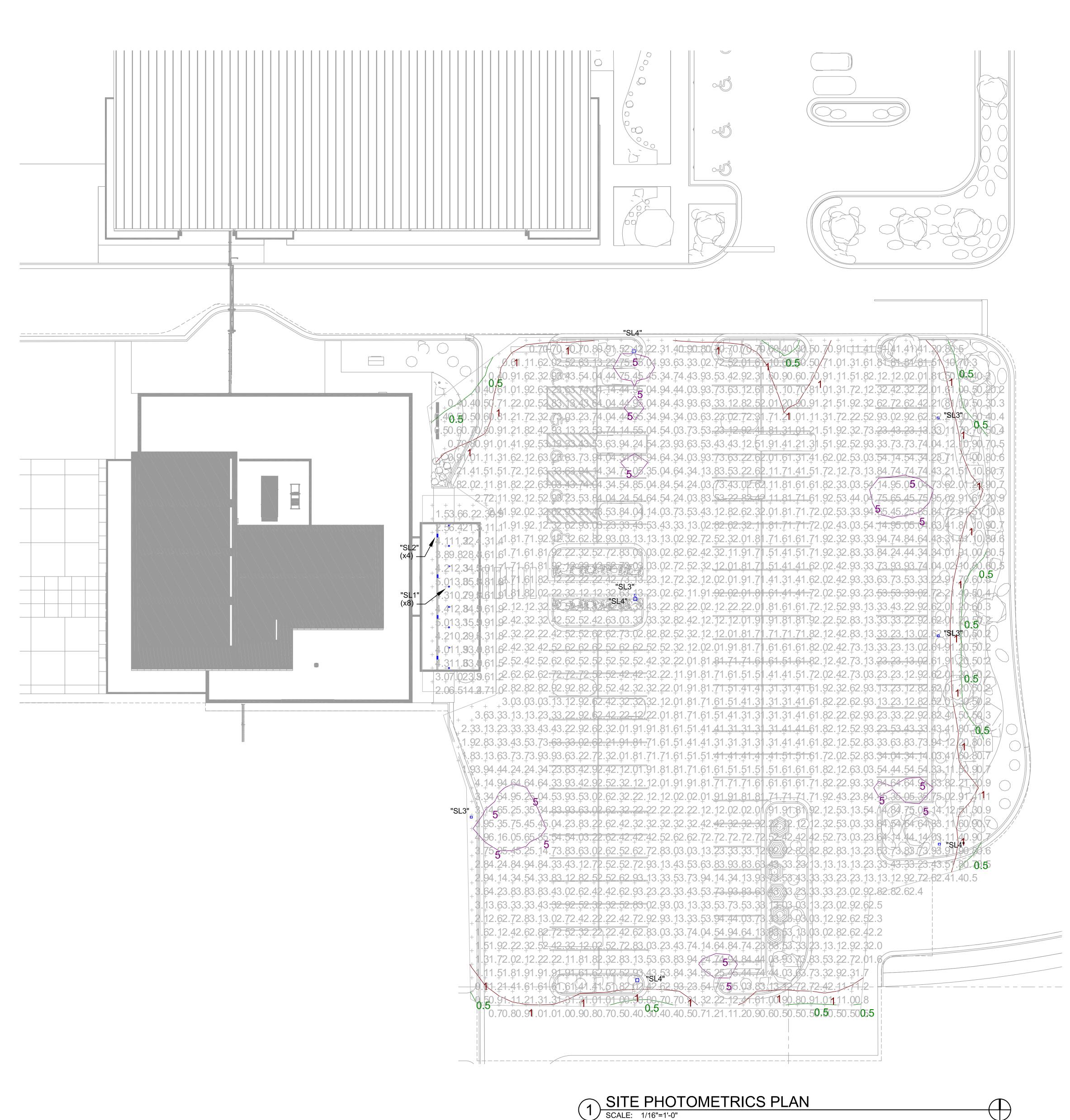
ME002

SHEET 79 OF 102



STATISTI	CS					
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	+	2.6 fc	6.1 fc	0.2 fc	30.5:1	13.0:1
Canopy	+	9.6 fc	35.9 fc	0.9 fc	39.9:1	10.7:1









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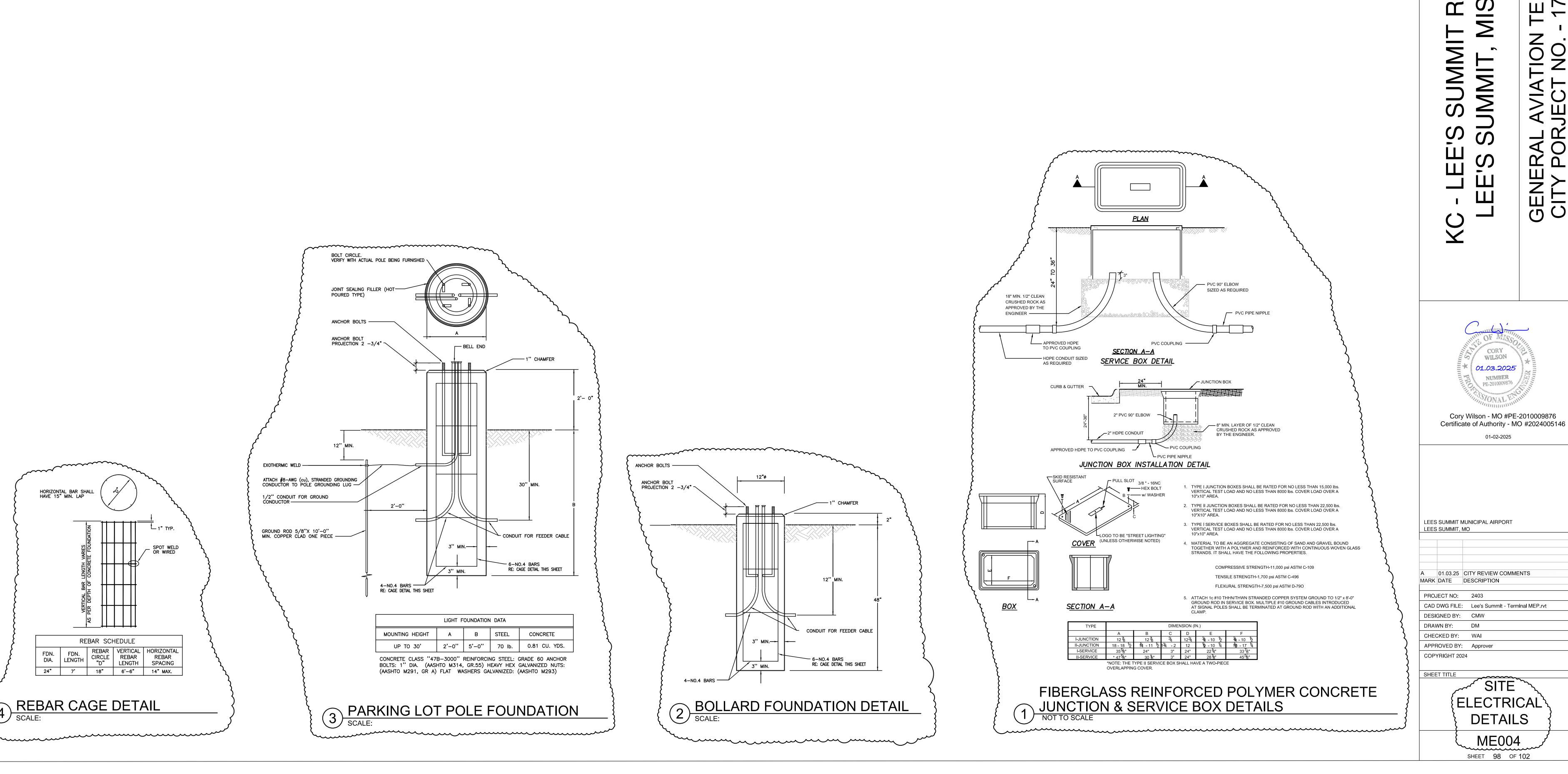
PLAN

LIGHTING SITE

PHOTOMETRIC

ME003 SHEET 80 OF 102

% ₽ ₩



HORIZONTAL BAR SHALL HAVE 15" MIN. LAP

REBAR SCHEDULE

7' 18" 6'-6" 14" MAX.

REBAR CAGE DETAIL

SCALE:

8/11, PM

FDN. REBAR VERTICAL HORIZONTAL REBAR REBAR SPACING





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WILSON

01.03.2025 NUMBER PE-2010009876

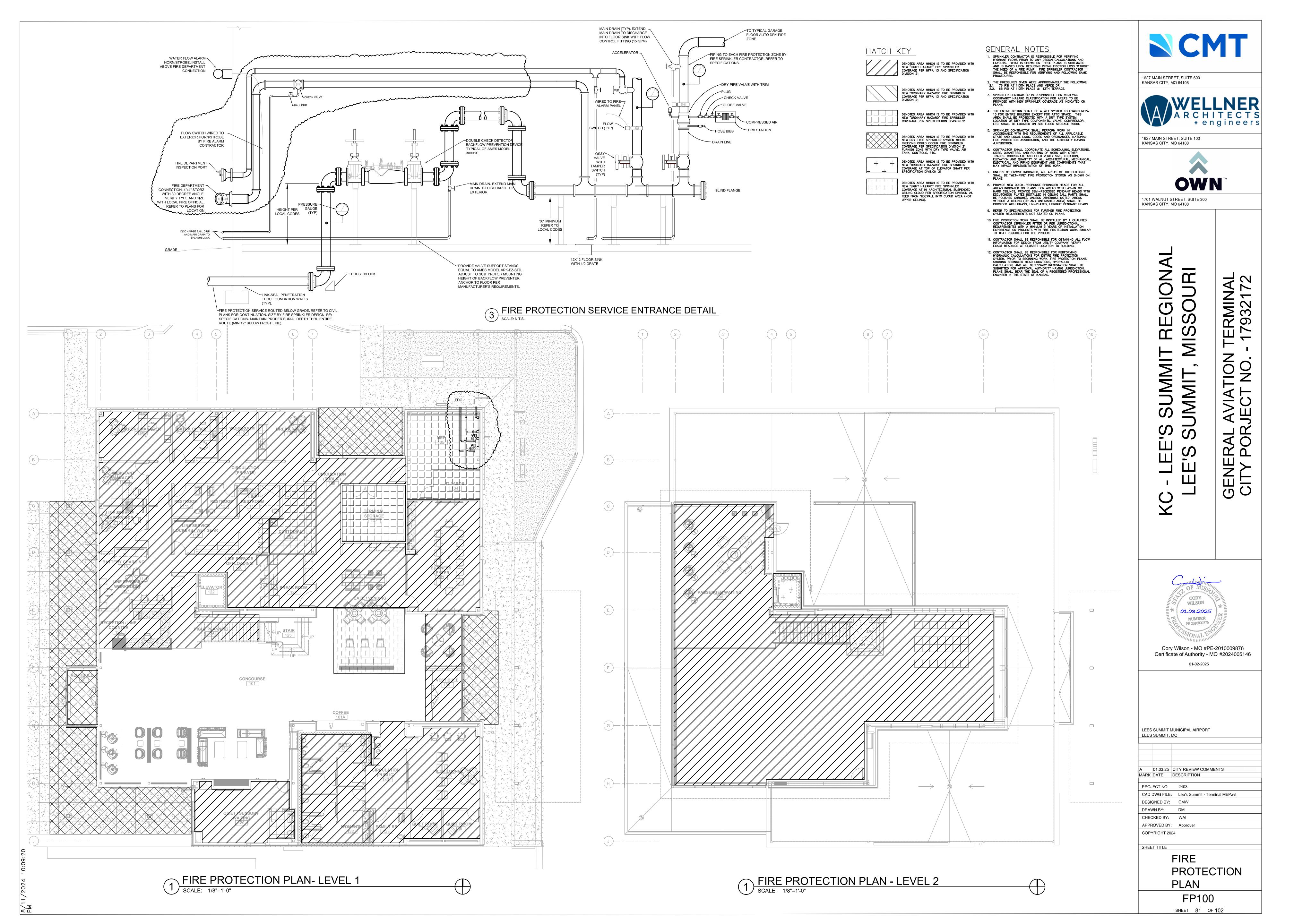
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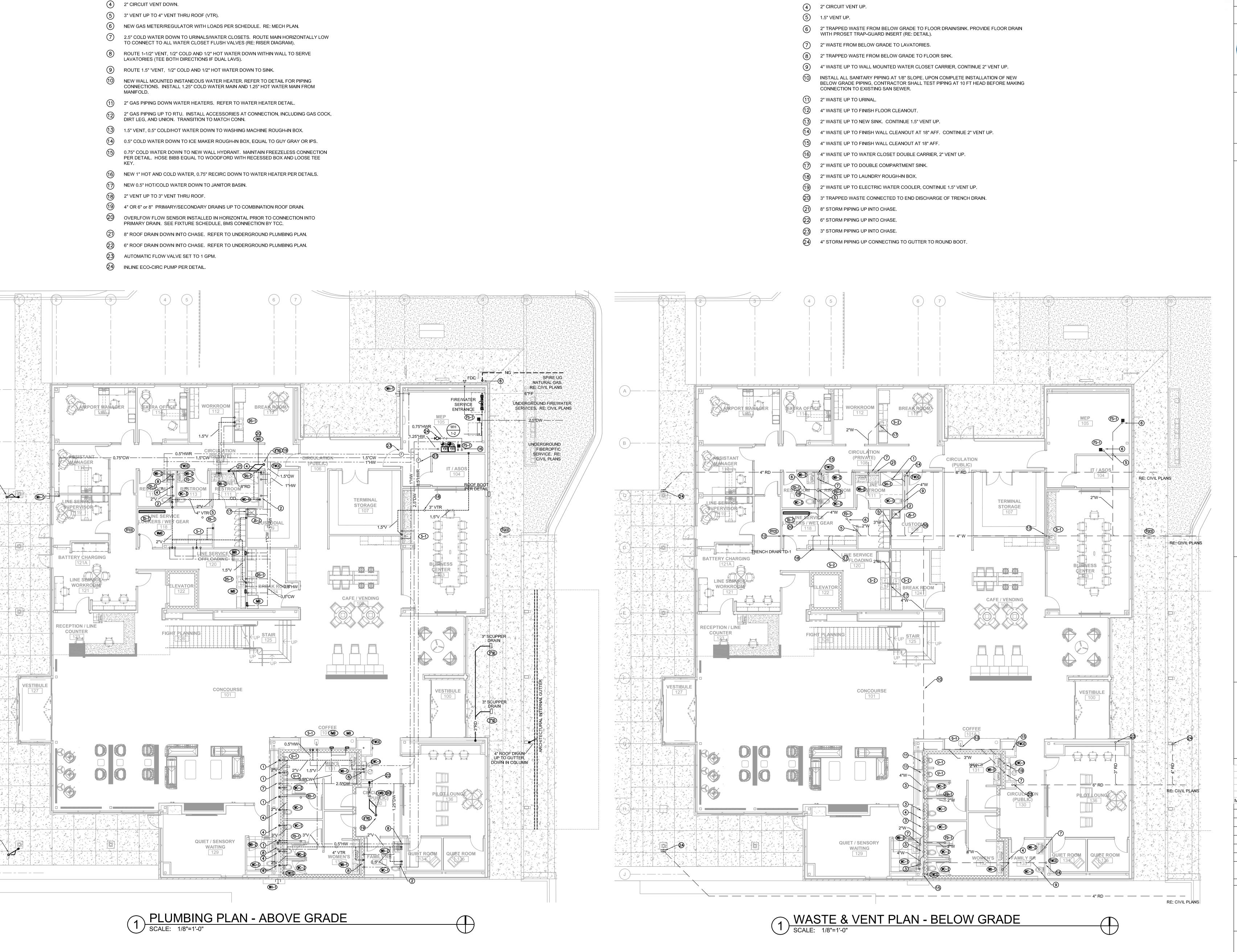
SITE

DETAILS

ME004

SHEET 98 OF 102





PLAN NOTES - UNDERGROUND

(3) 4" WASTE FROM BELOW GRADE UP TO WATER CLOSET CARRIER, 2" VENT UP.

1) 2" TRAPPED WASTE UP TO SHOWER BASIN DRAIN.

(2) 3" TRAPPED WASTE UP TO JANITOR BASIN.

PLAN NOTES - ABOVE GRADE

2 1.25" COLD WATER DOWN TO WATER CLOSETS.

(3) CONNECT 2" VENT UP TO 3" VENT UP THRU ROOF (VTR).

(1) 1.5" VENT DOWN.



1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108



1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

WILSON 01.03.2025 NUMBER PE-2010009876

Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

MARK DATE DESCRIPTION

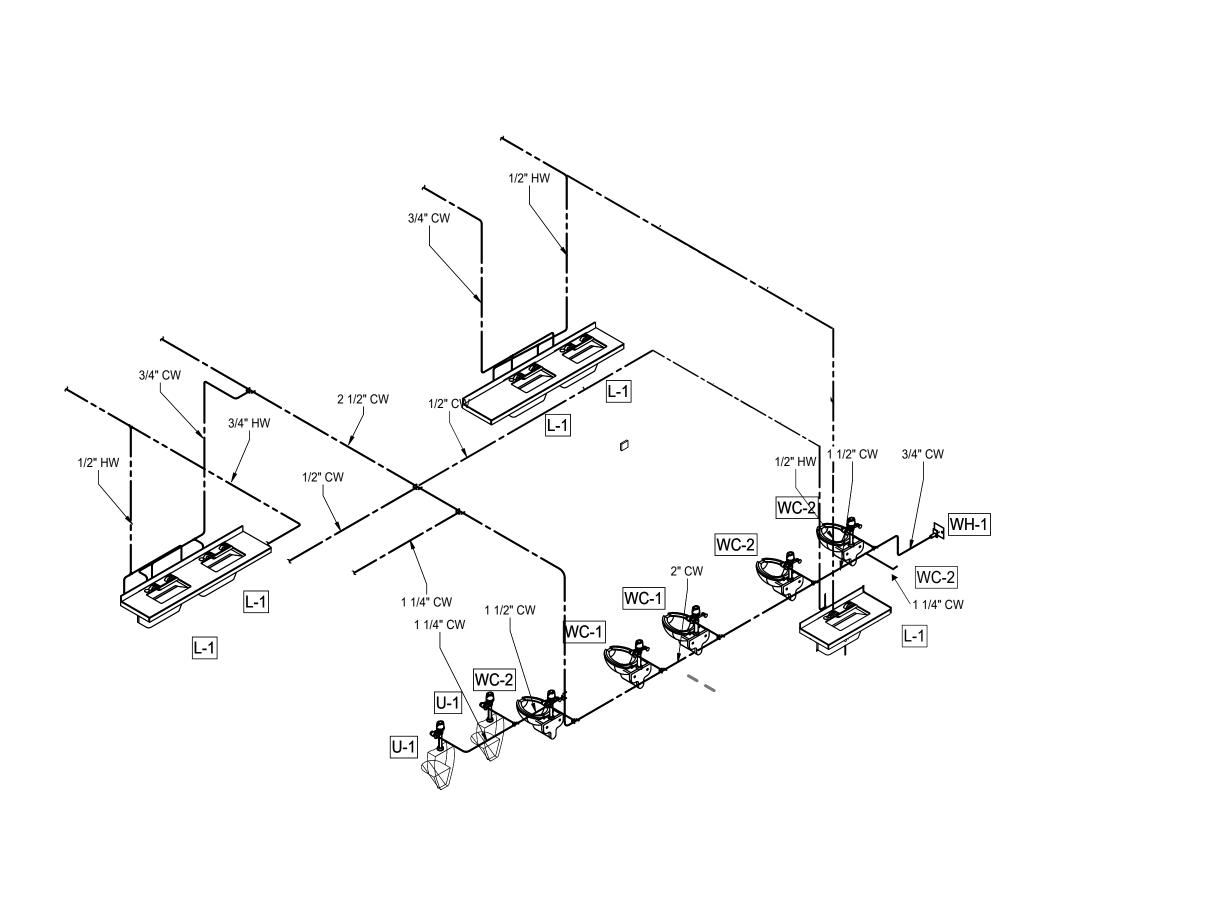
PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

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SHEET TITLE

ABOVE AND **BELOW GROUND** PLUMBING PLANS

> P-100 SHEET 82 OF 102



PARTIAL WASTE/VENT PIPING DIAGRAM

SCALE: NONE



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1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

Cory Wilson - MO #PE-2010009876
Certificate of Authority - MO #2024005146

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

ARK DATE DESCRIPTION

MARK DATE DESCRIPTION

PROJECT NO: 2403

CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

DESIGNED BY: CMW

DRAWN BY: DM

CHECKED BY: WAI

APPROVED BY: Approver
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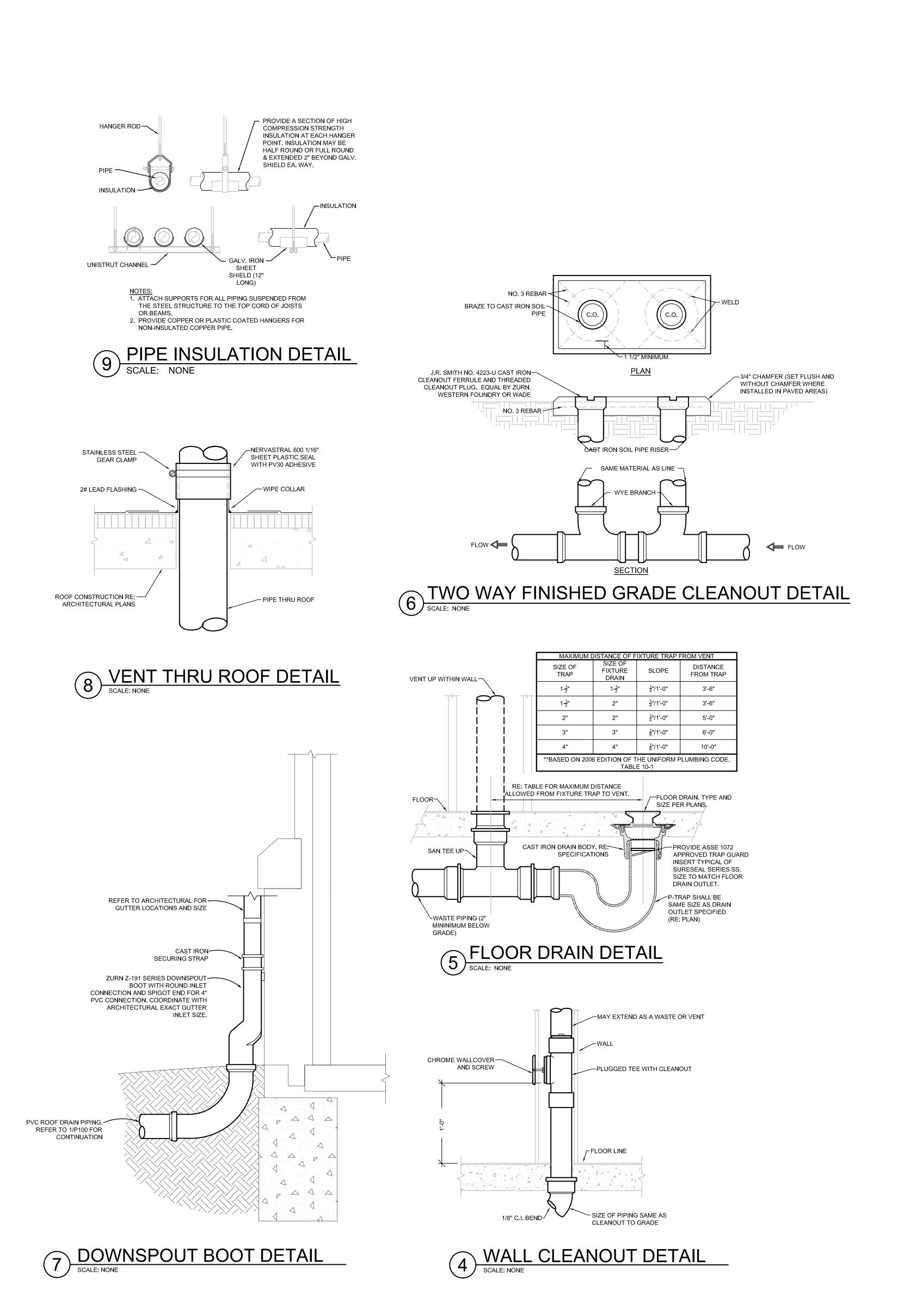
PLUMBING DIAGRAMS

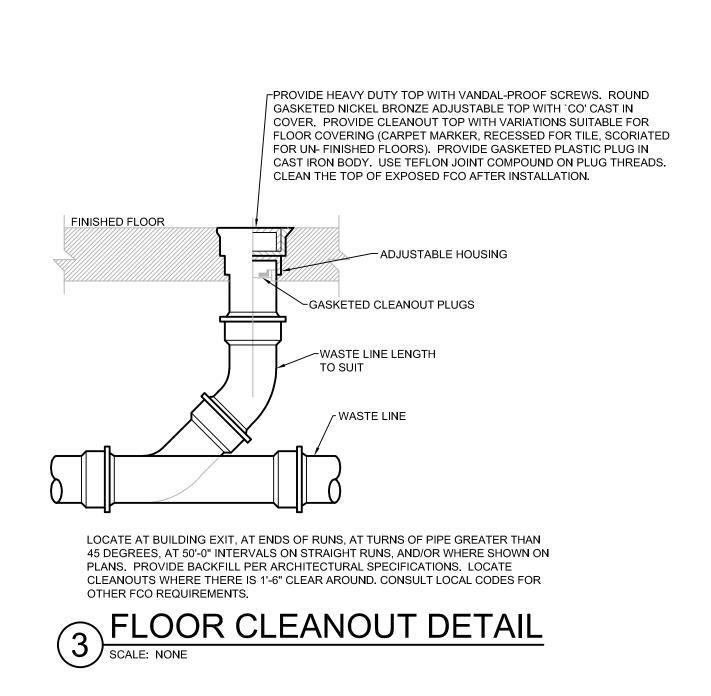
P-300 SHEET 83 OF 102

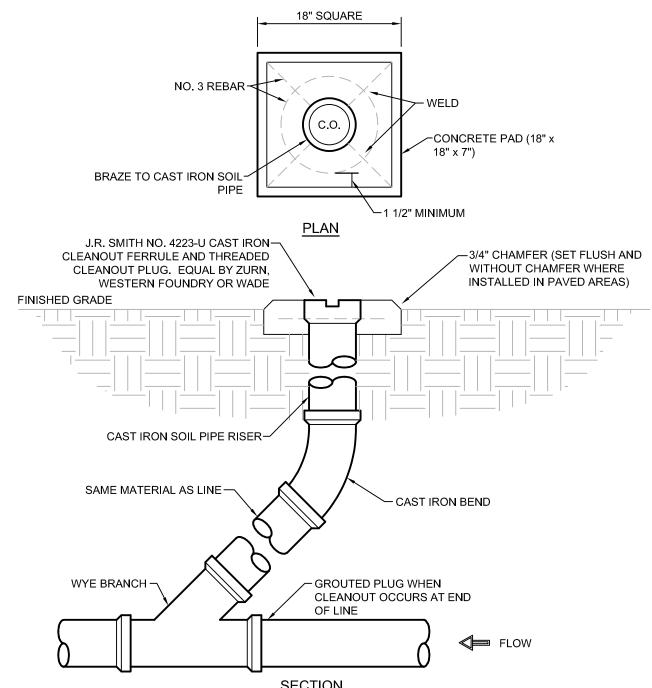
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PARTIAL WATER PIPING DIAGRAM

SCALE: NONE

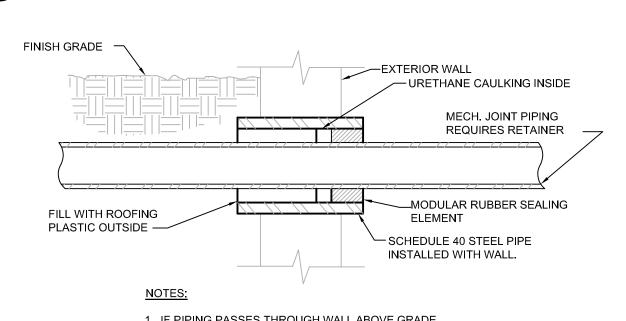






FINISHED GRADE CLEANOUT DETAIL

SCALE: NONE



1. IF PIPING PASSES THROUGH WALL ABOVE GRADE. SLEEVE SHALL BE FLUSH WITH EXTERIOR SIDE OF WALL PIPE SLEEVE THRU EXTERIOR WALL
SCALE: NONE

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1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

CORY WILSON 01.03.2025 NUMBER PE-2010009876 Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025 LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

SHEET TITLE PLUMBING **DETAILS**

CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

MARK DATE DESCRIPTION

PROJECT NO: 2403

DESIGNED BY: CMW

CHECKED BY: WAI

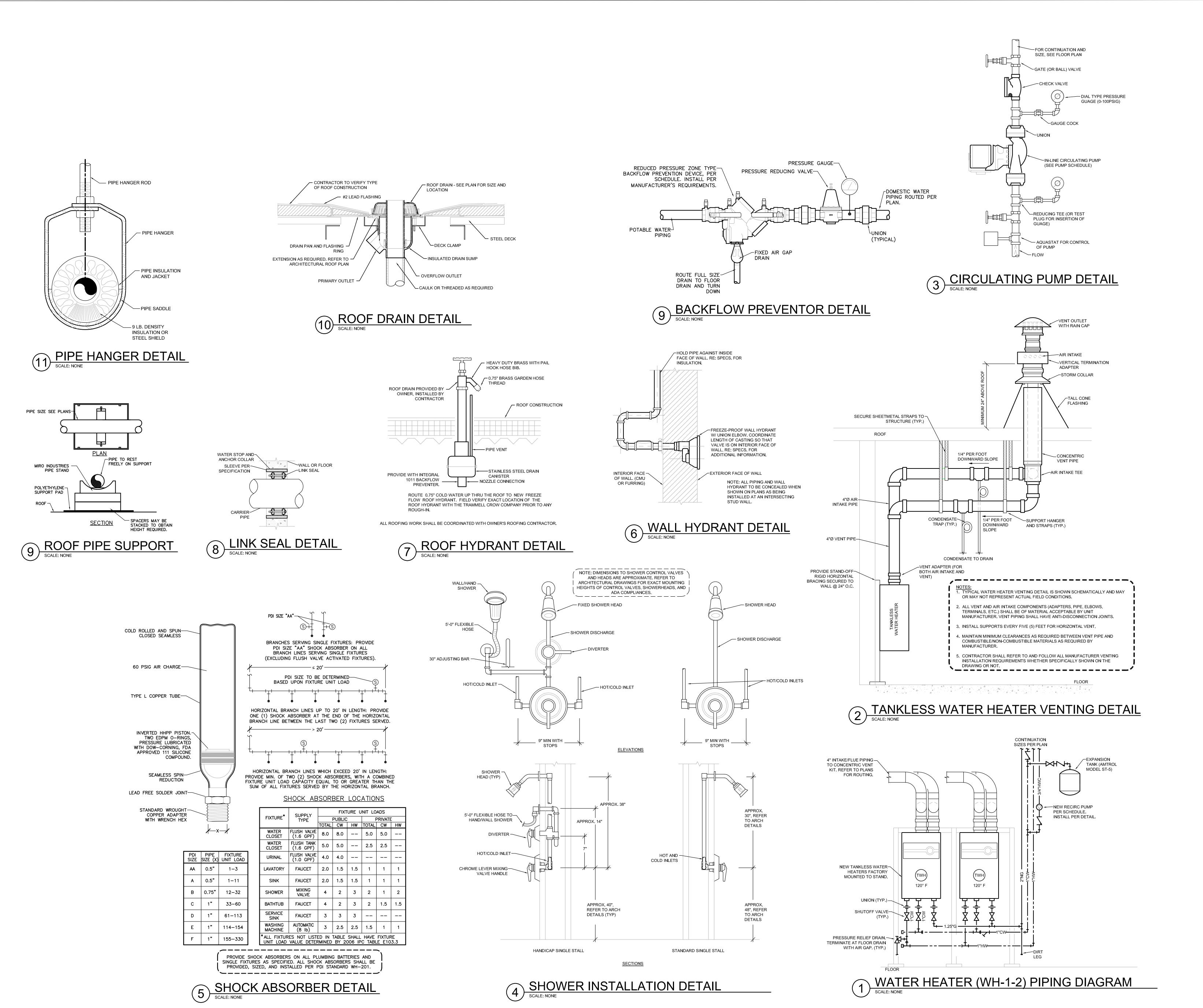
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P-400 SHEET 84 OF 102

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1701 WALNUT STREET, SUITE 300

KANSAS CITY, MO 64108

KANSAS CITY, MO 64108

CORY WILSON 01.03.2025 NUMBER PE-2010009876 Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025 LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO MARK DATE DESCRIPTION PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW DRAWN BY: DM

P-410

PLUMBING

SHEET 85 OF 102

DETAILS

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SHEET TITLE

APPROVED BY: Approver

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TAG		MANUFACTURER	MODEL MODEL	DESCRIPTION	ACCESSORIES		CONNE	CTIONS ^{1,}	,2
WC-1	WALL MOUNTED HIGH EFFICIENCY WATER CLOSET	TOTO	CT708EV	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (1.28 GPF) SIPHON JET FLUSH WATER CLOSET WITH ELONGATED BOWL, 1-1/2" BACK SPUD, AND 2-1/2" TRAPWAY. REFER TO ARCHITECTURAL PLANS FOR ADA MOUNTING HEIGHT.	FINISH SHALL BE COTTON (#01). PROVIDE WITH TOTO MODEL #SC534 WHITE OPEN FRONT ELONGATED SEAT LESS COVER. PROVIDE WITH ASSE 1037 COMPLIANT, CONCEALED ECO-POWER 1.28 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF TOTO MODEL TET3LN31#SS WITH 1" ANGLE STOP, 1-1/2" VACUUM BREAKER, 4"x4" STAINLESS STEEL COVER PLATE. UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 24 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED, ZURN, JR SMITH, OR EQUAL.	WASTE	VENT	CW 1-1/4"	HW
WC-2	WALL MOUNTED HIGH EFFICIENCY WATER CLOSET	тото	CT708EV	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (1.28 GPF) SIPHON JET FLUSH WATER CLOSET WITH ELONGATED BOWL, 1-1/2" BACK SPUD, AND 2-1/2" TRAPWAY. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.	FINISH SHALL BE COTTON (#01). PROVIDE WITH TOTO MODEL #SC534 WHITE OPEN FRONT ELONGATED SEAT LESS COVER. PROVIDE WITH ASSE 1037 COMPLIANT, CONCEALED ECO-POWER 1.28 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF TOTO MODEL TET2LN31#SS WITH 1" ANGLE STOP, 1-1/2" VACUUM BREAKER, 14"x12" STAINLESS STEEL ACCESS COVER PLATE. UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 24 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED, ZURN, JR SMITH, OR EQUAL.	4"	2"	1-1/4"	
UR-1	WALL MOUNTED HIGH EFFICIENCY URINAL	тото	UE906UVG	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (0.125 GPF) WASHOUT URINAL WITH CONCEALED INTEGRAL TRAP, 3/4" BACK SPUD INLET. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.	FINISH SHALL BE COTTON (#01). PROVIDE WITH INTEGRATED FLUSH-VALVE WITH 1/2" ANGLE STOP, 1/2" VACUUM BREAKER, ECO SELF POWERED HYDROELECTRIC FLUSH VALVE AND SENSOR, AND STAINLESS STEEL DRAIN COVER (#THU3010). UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 12 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED	2"	1-1/2"	3/4"	
WB-1	WALL MOUNTED CUSTOM WASH STATION	BRADLEY	SEE ARCH PLANS	WALL MOUNTED, DUAL BOWL OMNI-DECK WITH CUSTOM LENGTH PER ARCH PLANS. LD-3010 SERIES WITH TERREON SOLID SURFACE DECK WITH INTEGRAL RECTANGULAR BOWLS	FINISH SHALL BE COLOR AS SELECTED BY ARCHITECT (BASIS IS BRUSHED BRONZE, TBD). PROVIDE WITH TWO (2) BRADLEY WASHBAR DUO WBD1 WHICH INCLUDES SOAP DISPENSER AND FAUCET WITH TMV AND HAND DRYER. FURNISH ALL REQUIRED ACCESSORIES INCLUDING WALL BRACKETS, STAINLESS SHROUDS FOR COVERING SUPPLY/P-TRAPS, TOP FEED SOAP REFILL, BRUSH STAINLESS IN COLOR.	2"	1-1/2"	1/2"	1/2"
WB-2	WALL MOUNTED CUSTOM WASH STATION	BRADLEY	SEE ARCH PLANS	WALL MOUNTED, SINGLE BOWL OMNI-DECK WITH CUSTOM LENGTH PER ARCH PLANS (30" AND 64"). LD-3010 SERIES WITH TERREON SOLID SURFACE DECK WITH INTEGRAL RECTANGULAR BOWLS	FINISH SHALL BE COLOR AS SELECTED BY ARCHITECT (BASIS IS BRUSHED BRONZE, TBD). PROVIDE WITH ONE (1) BRADLEY WASHBAR DUO WBD1 WHICH INCLUDES SOAP DISPENSER AND FAUCET WITH TMV AND HAND DRYER. FURNISH ALL REQUIRED ACCESSORIES INCLUDING WALL BRACKETS, STAINLESS SHROUDS FOR COVERING SUPPLY/P-TRAPS, TOP FEED SOAP REFILL, BRUSH STAINLESS IN COLOR.	2"	1-1/2"	1/2'	"TW
L-1	WALL HUNG WHEELCHAIR USERS LAVATORY	тото	LT308	WALL MOUNTED, ADA AND ASME A112.19.2 COMPLIANT VITREOUS CHINA LAVATORY WITH 20.5"x27" OVERALL SIZE AND 15"x15" BASIN WITH SANAGLOSS CERAMIC GLAZING, FRONT OVERFLOW, AND MOUNTING KIT. COORDINATE FAUCET HOLE QUANTITY AND SPACING WITH FAUCET SPECIFIED. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE WITH PUNCHING FOR CONCEALED ARM CARRIER, AND APPROPRIATE FLOOR MOUNTED CARRIER SUPPORTS TYPICAL OF JR SMITH OR ZURN. FINISH TO BE COTTON.	PROVIDE WITH ADA COMPLIANT AUTOMATIC INFRARED, HYDRO-POWER SELF GENERATING, SENSOR OPERATED FAUCET TYPICAL OF TOTO AXIOM MODEL TEL3LK10S. 0.20 GALLON PER CYCLE SINGLE HOLE MOUNT SELF-ADJUSTING FAUCET WITH CONTROL BOX AND MOUNTING HARDWARE. PROVIDE WITH CHROME PLATED FINISH, GRID STRAINER, ANTI-SCALD FEATURE, AND "ON-DEMAND" OPERATION. COORDINATE COUNTERTOP OPENINGS WITH GENERAL CONTRACTOR. 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.	2"	1-1/2"	1/2'	"TW
DS-1	STAINLESS STEEL DOUBLE COMPARTMENT UNDERMOUNT SINK	ELKAY	ECTRY321719- LTBFC (CROSSTOWN)	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL DOUBLE BOWL SINK (60/40) WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 9" BOWL DEPTH, RADIUS CORNERS, REAR SETBACK DRAIN OPENINGS, AND MOUNTING CLIPS. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR TO PROVIDE A 1/2" REVEAL INSTALLATION PROFILE.	PROVIDE WITH ELKAY MODEL LKAV2061 AVADO KITCHEN SINK BASE FAUCET WITH ADA COMPLIANT LEVER HANDLE AND PULL-OUT COIL SPRAY - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, BRASS VALVE BODIES, QUARTER TURN WASHERLESS CERAMIC DISV VALVES, 21" MULTI-SWIVEL SWING SPOUT, AND 1.8 GPM AERATOR. PROVIDE 1-1/2" LUSTRIOUS STEEL CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. FAUCET TO BE LUSTROUS STEEL FINISH ON ALL PARTS 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH GRID STRAINER DRAIN. PROVIDE WITH IN-SINK-ERATOR POWER MODEL .75HP, 3/4 HP GARBAGE DISPOSER AND ALL REQUIRED ACCESSORIES. ABOVE SINK MOUNTED TOGGLE SWITCH.	2" (2)	1-1/2"	1/2"	1/2"
S-1	STAINLESS STEEL SINGLE COMPARTMENT SINK	ELKAY	ELUHAD1916	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL SINGLE BOWL SINK WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 5-1/2" BOWL DEPTH, RADIUS CORNERS, REAR SETBACK DRAIN OPENING, AND MOUNTING CLIPS. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR TO PROVIDE A 1/2" REVEAL INSTALLATION PROFILE.	PROVIDE WITH KOHLER MODEL K-7776-K-CP KITCHEN SINK BASE FAUCET WITH K-16012-4 ADA COMPLIANT LEVER HANDLES - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, BRASS VALVE BODIES, QUARTER TURN WASHERLESS CERAMIC DISV VALVES, 8" MULTI-SWIVEL SWING SPOUT, AND 1.5 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.	2"	1-1/2"	1/2"	1/2"
DF-1	NO-LEAD DUAL LEVEL SWIRLFLO DRINKING FOUNTAIN WITH INTEGRAL BOTTLE FILLING STATION	ELKAY	LZWS- LRPBM28K	HEAVY DUTY, FULLY EXPOSED, NSF-61 COMPLIANT, DUAL-LEVEL DRINKING FOUNTAIN WITH 18 GAUGE TYPE 300 STAINLESS STEEL BASINS AND 16 GAUGE TYPE 300 TUBULAR STAINLESS STEEL SUPPORT ARMS. FOUNTAIN SHALL BE NSF-61 COMPLIANT. PROVIDE WITH FRONT PUSH BUTTON ACTUATORS, VANDAL RESISTANT BUBBLERS, SURFACE MOUNTING PLATE, AND IN-WALL SUPPORT LEGS.	DRINKING FOUNTAIN TO BE PROVIDED WITH CANE APRON FOR ADA COMPLIANCE, FRONT ACCESS PANELS ON TOP AND BOTTOM OF UNIT. BOTTLE FILLER SHALL BE SENSOR ACTIVATED, 1.5 GPM FILL RATE, DRAIN SYSTEM TO ELIMINATE STANDING WATER, VISUAL USER INTERFACE, AUTO SHUTOFF, AND ANTI-MICROBIAL PROTECTION. PROVIDE WITH INTEGRAL WATER CHILLER CAPABLE OF 8 GPH AND 50°F DRINKING WATER BASED ON 90°F AMBIENT. COORDINATE ELECTRICAL REQUIREMENTS WITH E/C. PROVIDE WITH ELKAY MODEL EWF172 LEAD REDUCTION WATER FILTRATION KIT, WITH (1) SPARE REPLACEMENT FILTER FOR EACH KIT PROVIDED.	2"	1-1/2"	DOME WATE FOUN	HILLED ESTIC ER TO TAIN & E FILLER
SH-1	SHOWER VALVE AND TRIM	тото	TSST	THERMOSTATIC MIXING VALVE WITH SHAPE MEMORY ALLOY, INTEGRATED SERVICE STOPS, 1/2" NPT CONNECTIONS, AND CORROSION RESISTANCE. UNIT SHALL BE COMPLIANT WITH ASME A112.18.1.	PROVIDE WITH VALVE TRIM TYPICAL OF TOTO 'LEGATO' MODEL TS624T - SOLID BRASS TEMPERATURE CONTROL TRIM WITH ANTI-SCALD SAFETY STOP, LEVER HANDLE, AND POLISHED CHROME FINISH. TRIM SHALL BE ASME A112.18.1 AND ADA COMPLIANT. PROVIDE WITH SINGLE SPRAY SHOWERHEAD TYPICAL OF TOTO 'LEGATO' MODEL TS624A - SOLID BRASS SHOWERHEAD WITH 2.5 GPM MAX FLOW RATE, 7.5"x5" SPARY FACE WITH RUBBER NOZZLES TO PREVENT LIMESCALE BUILDUP, AND PROVIDED COMPLETE WITH SHOWER ARM AND WALL ESCUTCHEON. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF ALL COMPONENTS.	-	-	1/2"	1/2"
JS-1	FLOOR MOUNTED TERRAZZO MOP SERVICE BASIN	FIAT	TSB100	FLOOR MOUNTED, 24"x24"x12" ONE PIECE PRECAST TERRAZZO MOP BASIN WITH STAINLESS STEEL CURB CAPS, STAINLESS STEEL DRAIN BODY WITH S.S. STRAINER, QUICK DRAIN CONNECTOR, STAINLESS STEEL TILING FLANGES, AND CHROME PLATED BRASS DRAIN.	PROVIDE WITH MOP SERVICE SINK FAUCET WITH 3/4" MALE HOSE THREAD, VACUUM BREAKER, INTEGRAL STOPS, AND PAIL HOOK (830AA), HOSE & HOSE BRACKET (832AA), STAINLESS STEEL WALL GUARDS, AND SILICONE SEALANT. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND UNIT MANUFACTURER REQUIREMENTS - ENSURE LEVEL INSTALLATION.	3"	1-1/2"	1/2"	1/2"
JS-2	FLOOR MOUNTED 'NEO-CORNER' TERRAZZO MOP SERVICE BASIN	FIAT	TSBC6010	FLOOR MOUNTED, 24"x24"x12" ONE PIECE NEO-CORNER PRECAST TERRAZZO MOP BASIN WITH STAINLESS STEEL CURB CAPS, STAINLESS STEEL DRAIN BODY WITH S.S. STRAINER, QUICK DRAIN CONNECTOR, STAINLESS STEEL TILING FLANGES, AND CHROME PLATED BRASS DRAIN.	PROVIDE WITH MOP SERVICE SINK FAUCET WITH 3/4" MALE HOSE THREAD, VACUUM BREAKER, INTEGRAL STOPS, AND PAIL HOOK (830AA), HOSE & HOSE BRACKET (832AA), STAINLESS STEEL WALL GUARDS, AND SILICONE SEALANT. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND UNIT MANUFACTURER REQUIREMENTS - ENSURE LEVEL INSTALLATION.	3"	1-1/2"	1/2"	1/2"
HB-1	HOSE BIB	WOODFORD	MODEL 24	ANTI-SIPHON VACUUM BREAKER WALL FAUCET WITH HOSE THREADS.	-		-	3/4"	-
FPWH	FREEZEPROOF WALL HYDRANT	WOODFORD	B65	NON-FREEZE, SELF DRAINING TYPE WITH POLISHED BRASS CONCEALING BOX AND DOOR, HOSE THREAD SPOUT, REMOVABLE KEY WITH EACH HYDRANT, AND VACUUM BREAKER.	PROVIDE WITH SPARE KEY FOR EACH HYDRANT PROVIDED.	-	-	3/4"	-
RH-1	FREEZE-PROOF ROOF HYDRANT	FREEZEFLOW	2131R	SELF CONTAINED DRAIN PROOF AND FREEZE PROOF ROOF HYDRANT WITH HEAVY DUTY BRASS HOSE BIBB WITH PAIL HOOK, 1" GALVANIZED SCHEDULE 40 STEEL PIPE RISER, STAINLESS STEEL DRAINAGE CANISTER, AND OPTIONAL BACKFLOW PREVENTION DEVICE. INSTALL WITH CANISTER AT MANUFACTURER REQUIRED DEPTH BELOW ROOF DECK.	<u>-</u>	-	-	3/4"	-
	ICE MACHINE			20 GAUGE ROUGH-IN BOX WITH FACEPLATE. WHITE POWDER		1			1 -7

TAG	TYPE	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES		CONNE	CTIONS ¹	,2
TAG	TYPE	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	WASTE	VENT	CW	HW
MS-1	24"x24" JANITORS SINK	FIAT	TSB100	ONE PIECE PRECAST TERRAZO MOP SERVICE BASIN, 12" CONTINUOUS DEPTH. TERRAZO SHALL BE CONSTRUCTED TO A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI, WITH POLISHED AND SEALED FINISH. BASIN TO BE INSTALLED ON MINIMUM 1/2" LAYER OF MORTAR FOR LEVELING, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS.	PROVIDE WITH STAINLESS STEEL STRAINER (#1453BB), QUICK DRAIN CONNECTORS, INTEGRAL TILING FLANGES, STAINLESS STEEL CAPS ON ALL SHOULDERS, WALL MOUNTED MOP SERVICE SINK WITH PAIL HOOK (830AA), HOSE AND HOSE BRACKET (832AA), SILICONE SEALANT (833AA) AND HEAVY GAUGE STAINLESS STEEL WALL GUARDS (MSG).	3"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN (GENERAL SERVICE)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" DIAMETER STRAINER. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FD-2	FLOOR DRAIN (MECHANICAL AREAS)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND HEAVY DUTY STRAINER.	PROVIDE WITH 8" DIAMETER STRAINER AND ALL ACID RESISTING EPOXY COATING. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH TRAP PRIMER INLET CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
FD-3	FLOOR DRAIN (INDIRECT WASTE RECEPTOR)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" DIAMETER STRAINER WITH 4" DIAMETER FUNNEL. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FD-4	FLOOR DRAIN (CRITICAL AREAS)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" STRAINER AND ALL ACID RESISTING EPOXY COATING. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH TRAP PRIMER INLET CONNECTION AND BACKWATER VALVE.	OUTLET SIZE PER PLAN	-	1/2"	-
FD-5	FLOOR DRAIN (SHOWER)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'S' DECORATIVE POLISHED STRAINER.	PROVIDE WITH 6"x6" SQUARE HEEL-PROOF STRAINER. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FS-1	FLOOR SINK 12"x12" BODY (FULL GRATE)	ZURN	Z-1901	12"x12"x8" FLOOR RECEPTOR WITH DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS. WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, AND WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	PROVIDE WITH FULL SIZE GRATE, OUTLET SIZE TO MATCH CONNECTION SIZE NOTED ON PLAN, AND TRAP PRIMER CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
FS-2	FLOOR SINK 12"x12" BODY (3/4 GRATE)	ZURN	Z-1901	12"x12"x8" FLOOR RECEPTOR WITH DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS. WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, AND WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	PROVIDE WITH 3/4 GRATE, OUTLET SIZE TO MATCH CONNECTION SIZE NOTED ON PLAN, AND TRAP PRIMER CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
TD-1	TRENCH DRAIN	ZURN	Z882-HDG	MODULAR TRENCH DRAIN CHANNELS CONSTRUCTED OF 72" LONG x 12" WIDE REVEAL WITH 9-1/4" THROAT. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 0% WATER ABSORBENT HIGH DENSITY POLYETHYLENE (HDPE). CHANNELS SHALL BE PRE-SLOPED. PROVIDE END PIPING CONNECTION.	PROVIDE WITH HEAVY DUTY LOAD CLASS E DUCTILE IRON SLOTTED GRATE, COMPLIANT WITH ASTM A536-84, AND LOCKABLE TO TRENCH. PROVIDE WITH REBAR CLIPS AND ASTM A123 COMPLIANT CONCRETE ANCHORS. PROVIDE WITH END OUTLET, SIZE AS NOTED ON PLAN, WITH STRAINER ON OUTLET.	OUTLET SIZE PER PLAN	-	-	-
RD	COMBO ROOF DRAIN	ZURN/FROET	100C	CAST IRON BODY COMBO PRIMARY/OVERFLOW ROOF DRAIN, VARIABLE DIAMETER BASED UPON OUTLET SIZE. PROVIDE WITH DECK CLAMP AND MINIMUM 5" HIGH DOME STRAINER AND OVERFLOW THRU DOME. ROOF DRAIN SHALL BE COMPLIANT WITH ASME A112.6.4. PROVIDE WITH DECK CLAMP, DECK PLATE	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE OVERALL DIAMETER OF DOME STRAINER. 3" AND 4" OUTLETS TO HAVE A 14" DIAMETER DOME STRAINER, 5" AND 6" OUTLETS TO HAVE A 18" DIAMETER DOME STRAINER. ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTL	ET AS NO	OTED ON	I PLAN
ORD	WITH COMBO DRAIN ABOVE	-	200Cx	FURNISH WITH OVERFLOW WATER FLOW SENSOR TO BE INSTALLED IN OVERFLOW PIPING CONNECTING TO PRIMARY. SENSOR EQUAL TO ZURN F7000 WITH INTEGRAL BATTERY BACKUP, BMS INTERFACE, AND PIPE SIZE PER PLANS	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE OVERALL DIAMETER OF DOME STRAINER. 3" AND 4" OUTLETS TO HAVE A 14" DIAMETER DOME STRAINER, 5" AND 6" OUTLETS TO HAVE A 18" DIAMETER DOME STRAINER. ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTL	ET AS No	OTED ON	I PLAN
SD	SIDEWALL SCUPPER DRAIN	ZURN	Z-187	DURA-COATED CAST IRON BODY WITH OBLIQUE ALUMINUM GRATE WITH 90 DEG COMBINATION FRAME AND MEMBRANE FLASHING CLAMP, AND SIDE OUTLET PIPE SIZE PER PLANS (4").	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE SIZE OF OBLIQUE STRAINER.ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTL	ET AS NO	OTED ON	I PLAN
DB	DOWNSPOUT BOOT	ZURN	Z-191-RD	DURA-COATED CAST IRON BODY WITH ROUND INLET AND OUTLET AND STRAP WITH 1/4" DIA. CAST HOLES FOR FLAT HEAD BOLTS, AND INLET/OUTLET PIPE SIZE PER PLANS (4").	PROVIDE WITH INLET/OUTLET SIZE AS NOTED ON PLAN (4"). OVERALL HEIGHT OF BOOT 18" DRAIN SHALL HAVE A 25 YEAR WARRANTY. FURNISH WITH CLEANOUT ACCESS WITH PLUG AND NO-HUB CONNECTIONS.	OUTL	ET AS NO	OTED ON	I PLAN
FGCO	FINISHED GRADE CLEANOUT	ZURN	Z-1400-HD	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR. CAST IN CONCRETE PER DETAIL.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
FCO	FINISHED FLOOR CLEANOUT	ZURN	Z-1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED 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.	-	-	-	-
wco	WALL CLEANOUT	ZURN	Z-1446	CLEANOUT TEE, DURA COATED CAST IRON BODY, GAS AND WATERTIGHT, ABS TAPERED THREAD PLUG AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
DSN	DOWNSPOUT NOZZLE	ZURN	ZANB-199	ALL NICKLE BRONZE BODY DOWNSPOUT NOZZLE, WITH OPTIONAL THREADED OR NO-HUB INLET AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	-			H ROOF I ED ON PL	

REMARI	KS:			
1. VERI	FY ALL CONNECTIONS & MOUN	ITING HEIGHTS WI	TH CODES, MANUF	ACTURERS, AND PLANS.
2. SIZE	S LISTED INDICATE MIN. SIZE (ONLY, SEE PLUMBI	NG RISERS AND FLO	OOR PLANS FOR LARGER SIZES.

TAN	TANKLESS WATER HEATER SCHEDULE (RACK SYSTEM)														
MARK	MFR	MODEL	LOCATION	ENERGY FACTOR	TYPE	MIN. NG PRESS. ("W.C.)	MAX. NG PRESS. ("W.C.)	MIN. INPUT (mbh)	MAX. INPUT (mbh)	TEMP SETTING (°F)	GPM @ 70°F RISE	VOLT/PH/HZ	ACCESSORIES		
WH-1/2	AO SMITH	ACI-CRS-23WM-N	MECH RM	0.95	NAT. GAS	5.0	10.5	15,000	398,000	120	10.8	120/1/60	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15		

CONCENTRIC VENT TERMINATION KIT.

GAS SHUTOFF VALVE. 3. INTERNAL TEMPERATURE CONTROLLER WITH ON-BOARD DIAGNOSTICS.

4. 120V POWER CORD (MIN. 10 FT LENGTH). 5. ISOLATION VALVE KIT.

WATER FILTER. . SUITABLE FOR COMMERCIAL USAGE. 8. HRS35 PRIMARY HEAT EXCHANGER, 316L STAINLESS SECONDARY HEAT EXCHANGER.

9. ELECTRONIC IGNITION.
10. AFR SENSOR, EXHAUST & WATER TEMP SAFETY CONTROL, AND OVERHEAT SHUTOFF FUSE.

I1. NEUTRALIZER KIT. 12. SUITABLE FOR PVC/CPVC VENTING.
13. 10 YEAR HEAT EXCHANGER WARRANTY, 5 YEAR WARRANTY ON ALL OTHER COMPONENTS.

14. ANSI Z21.22 COMPLIANT PRESSURE RELIEF VALVE, RATED FOR A MAXIMUM OF 150 PSI.

15. AT CONTRACTOR'S OPTION, COMMON VENTING MAY BE INSTALLED, GIVEN EACH WATER HEATER IS PROVIDED WITH A NON-RETURN VALVE. COMMON VENTING SHALL BE SIZED AND INSTALLED PER UNIT MANUFACTURER'S REQUIREMENTS.

BACKFLOW PREVENTOR SCHEDULE LOCATION MODEL TYPE SERVES BFP SIZE DRAIN SIZE LINE SIZE REMARKS MAIN MECH ROOM DOUBLE CHECK DETECTOR FIRE SERVICE 3,4,5 707DCDA BFP-2 MECHANICAL ROOM 109 WATTS REDUCED PRESSURE ZONE WATER SERVICE 2-1/2" 2-1/2" 2-1/2" 1,3,4,5 DOUBLE CHECK VALVE 1/2" 1/2" KITCHEN ICE MAKER N/A

1. PROVIDE WITH MANUFACTURER REQUIRED AIRGAP, EXTEND FULL SIZE DRAIN PIPING TO TERMINATE AT NEAREST FLOOR DRAIN. 2. COORDINATE CONFIGURATION WITH SPACE LIMITATIONS PRIOR TO ORDERING. 3. PROVIDE WITH "Y" TYPE STRAINER.
4. PROVIDE WITH UNION END BALL VALVES ON ASSEMBLY.

RECI	RECIRCULATION PUMPS													
MARK	LOCATION	SERVES	GPM	HEAD (FT)	HP	EFF. %	VOLT	RPM	TYPE	MANUFACTURER	SERIES	MODEL	REMARKS	
RP-1	MECH RM	WH-1&2	2.0	20	1/6	N/A	120/1	3300	INLINE	BELL & GOSSETT	ECOCIRC	=	-	
REMARKS	S:													

1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.

2. SIZES LISTED INDICATE MIN. SIZE ONLY, SEE PLUMBING RISERS AND FLOOR PLANS FOR LARGER SIZES.

3. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE HAWS, CHICAGO FAUCET, HALSEY TAYLOR, JOSAM, JR SMITH, WADE, ROCKFORD, TOTO, AND OASIS

	PIPING						FIT	TINGS	MAX. W	ORKING	FIELD	TEST
SYSTEM	SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	MAT.	TYPE	PRESS (PSI)	TEMP (°F)	PRESS (PSI)	TIME
DOMESTIC WATER ABOVE GRADE	ALL	L			B88	СР	СР	SJ	120	40-180	150	1 HF
DOMESTIC WATER BELOW GRADE	ALL	К			B88	СР	СР	SJ	120	40-180	150	1 HF
CONDENSATE DRAIN ABOVE GRADE	ALL	М			B88	СР	СР	DR\S	10FT	40-70	10FT	1 HR
FIRE PROTECTION	ALL				PER	NFPA	13	AND	14		200	2 HR
FIRE SERVICE BELOW GRADE	ALL	CL150			C900	PVC	DI	MJ	120	40-80	200	2 HR
REFRIGERANT PIPING	ALL	ACR			B280	СР	СР	S	150	40-140	200	4 HR
ROOF DRAIN BELOW GRADE	ALL	DMV	40		2665	PVC	PVC	DR\SW	10 FT	40-80	10 FT	1 HR
ROOF DRAIN ABOVE GRADE	ALL	NH	SS		A74	CI	CI	DR\NH	10 FT	40-180	10 FT	1 HR
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	М			B88	СР	СР	DR\S	10FT	40-70	10FT	1 HR
NATURAL GAS ABOVE GRADE	0.5"-2.5"	SL/CW	40	А	A53	CS/BLK	CS	THRD	1	-	100	1 HR
NATURAL GAS ABOVE GRADE	ABOVE 3"	SL/CW	40	А	A53	CS/BLK	CS	THRD	1	-	100	1 HR
NATURAL GAS BELOW GRADE	ALL		•			REFER TO	NOTE	1 BELOW			•	
WASTE BELOW GRADE	ALL	DWV	40		2665	PVC	PVC	DR\SW	10 FT	40-80	10 FT	1 HR
WASTE & VENT ABOVE GRADE	ALL	NH	SS		A74	CI	CI	DR\NH	10 FT	40-180	10 FT	1 HR

1. BURIED GAS PIPING SHALL BE DRISCOPLEX 6500 PE2406, SDR11, POLYETHYLENE WITH #12 COPPER TRACER WIRE AND ANODELESS RISERS WHERE RISING ABOVE GRADE.

ATP - ARMCO TRUSS PIPE

ATP - ARMCO TRUSS PIPE
BLK - BLACK
BS - BELL & SPIGOT
CI - CAST IRON
CP - COPPER
CS - CARBON STEEL
CTD - PIPE LINE SERVICE COMPANY X-TRU-COAT
HIGH DENSITY POLYETHYLENE COATING
EXTRUDED OVER PIPE EXTRUDED OVER PIPE
CW - CONTINUOUS WELD DI - DUCTILE IRON DR - DRAINAGE FITTING GLV - GALVANIZED LC - LEAD CAULKING MI - MALLEABLE IRON

MJ - MECHANICAL JOINT
NG - NEOPRENE GASKET
NH - NO-HUB
PE - POLYETHYLENE
PVC - POLYVINYL CHLORIDE
S - BRAZED JOINT - SILVER BRAZING ALLOY
SJ - SOLDER JOINT 95-5 TIN-ANTIMONY SL - SEAMLESS STEEL
SS - STANDARD STRENGTH - SERVICE WEIGHT
SW - SOLVENT WELD TS - TY-SEAL
THRD - THREADED
VCP - VITRIFIED CLAY PIPE WELD - WELDED XH - EXTRA HEAVY

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

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

WILSON 01.03.2025 NUMBER PE-2010009876

Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146

01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT

MARK DATE DESCRIPTION

LEES SUMMIT, MO

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

DRAWN BY: DM CHECKED BY: WAI APPROVED BY: Approver COPYRIGHT 2024

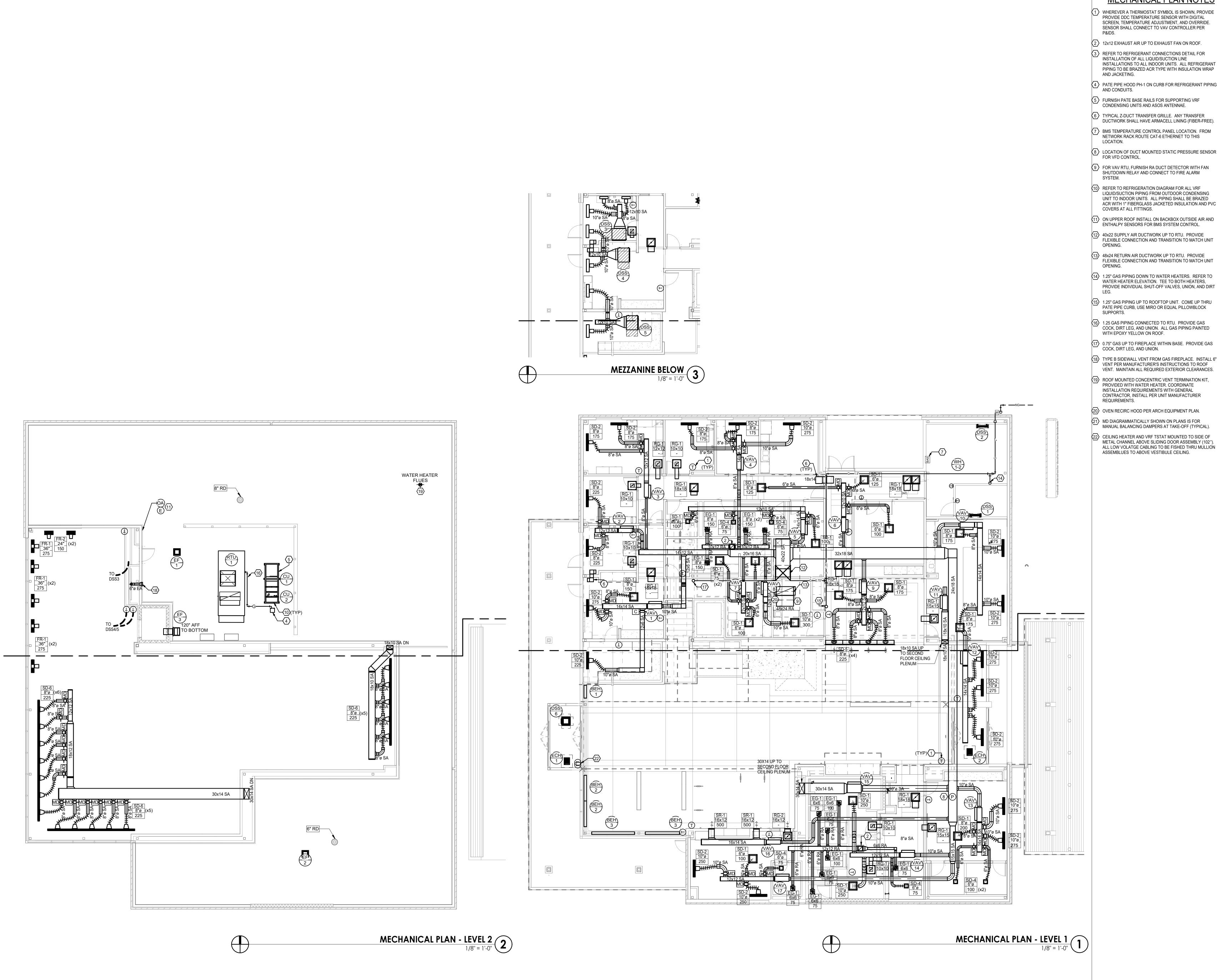
SHEET TITLE **PLUMBING**

P-500

SHEET 86 OF 102

5. PROVIDE AND INSTALL PER DETAIL.

8 PM 1



MECHANICAL PLAN NOTES

- WHEREVER A THERMOSTAT SYMBOL IS SHOWN, PROVIDE PROVIDE DDC TEMPERATURE SENSOR WITH DIGITAL SCREEN, TEMPERATURE ADJUSTMENT, AND OVERRIDE. SENSOR SHALL CONNECT TO VAV CONTROLLER PER
- 2 12x12 EXHAUST AIR UP TO EXHAUST FAN ON ROOF. (3) REFER TO REFRIGERANT CONNECTIONS DETAIL FOR INSTALLATION OF ALL LIQUID/SUCTION LINE
- PIPING TO BE BRAZED ACR TYPE WITH INSULATION WRAP
- (5) FURNISH PATE BASE RAILS FOR SUPPORTING VRF
- CONDENSING UNITS AND ASOS ANTENNAE.
- DUCTWORK SHALL HAVE ARMACELL LINING (FIBER-FREE).
- NETWORK RACK ROUTE CAT-6 ETHERNET TO THIS
- FOR VFD CONTROL.
- 9 FOR VAV RTU, FURNISH RA DUCT DETECTOR WITH FAN SHUTDOWN RELAY AND CONNECT TO FIRE ALARM
- (10) REFER TO REFRIGERATION DIAGRAM FOR ALL VRF LIQUID/SUCTION PIPING FROM OUTDOOR CONDENSING UNIT TO INDOOR UNITS. ALL PIPING SHALL BE BRAZED ACR WITH 1" FIBERGLASS JACKETED INSULATION AND PVC COVERS AT ALL FITTINGS.
- (11) ON UPPER ROOF INSTALL ON BACKBOX OUTSIDE AIR AND ENTHALPY SENSORS FOR BMS SYSTEM CONTROL.
- (12) 40x22 SUPPLY AIR DUCTWORK UP TO RTU. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO MATCH UNIT
- (13) 48x24 RETURN AIR DUCTWORK UP TO RTU. PROVIDE
- (14) 1.25" GAS PIPING DOWN TO WATER HEATERS. REFER TO WATER HEATER ELEVATION. TEE TO BOTH HEATERS, PROVIDE INDIVIDUAL SHUT-OFF VALVES, UNION, AND DIRT
- PATE PIPE CURB, USE MIRO OR EQUAL PILLOWBLOCK
- (16) 1.25 GAS PIPING CONNECTED TO RTU. PROVIDE GAS
- (17) 0.75" GAS UP TO FIREPLACE WITHIN BASE. PROVIDE GAS COCK, DIRT LEG, AND UNION.
- (18) TYPE B SIDEWALL VENT FROM GAS FIREPLACE. INSTALL 6" VENT PER MANUFACTURER'S INSTRUCTIONS TO ROOF VENT. MAINTAIN ALL REQUIRED EXTERIOR CLEARANCES.
- PROVIDED WITH WATER HEATER. COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL CONTRACTOR, INSTALL PER UNIT MANUFACTURER
- MANUAL BALANCING DAMPERS AT TAKE-OFF (TYPICAL).



1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108



1701 WALNUT STREET, SUITE 300

KANSAS CITY, MO 64108

FLEXIBLE CONNECTION AND TRANSITION TO MATCH UNIT

- (15) 1.25" GAS PIPING UP TO ROOFTOP UNIT. COME UP THRU
- WITH EPOXY YELLOW ON ROOF.
- (19) ROOF MOUNTED CONCENTRIC VENT TERMINATION KIT,
- OVEN RECIRC HOOD PER ARCH EQUIPMENT PLAN.
- (21) MD DIAGRAMMATICALLY SHOWN ON PLANS IS FOR
- CEILING HEATER AND VRF TSTAT MOUNTED TO SIDE OF METAL CHANNEL ABOVE SLIDING DOOR ASSEMBLY (102").
 ALL LOW VOLATGE CABLING TO BE FISHED THRU MULLION
 ASSEMBLUES TO ABOVE VESTIBULE CEILING.

WILSON 01.03.2025 NUMBER

Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT ALES BRIMIT, MO

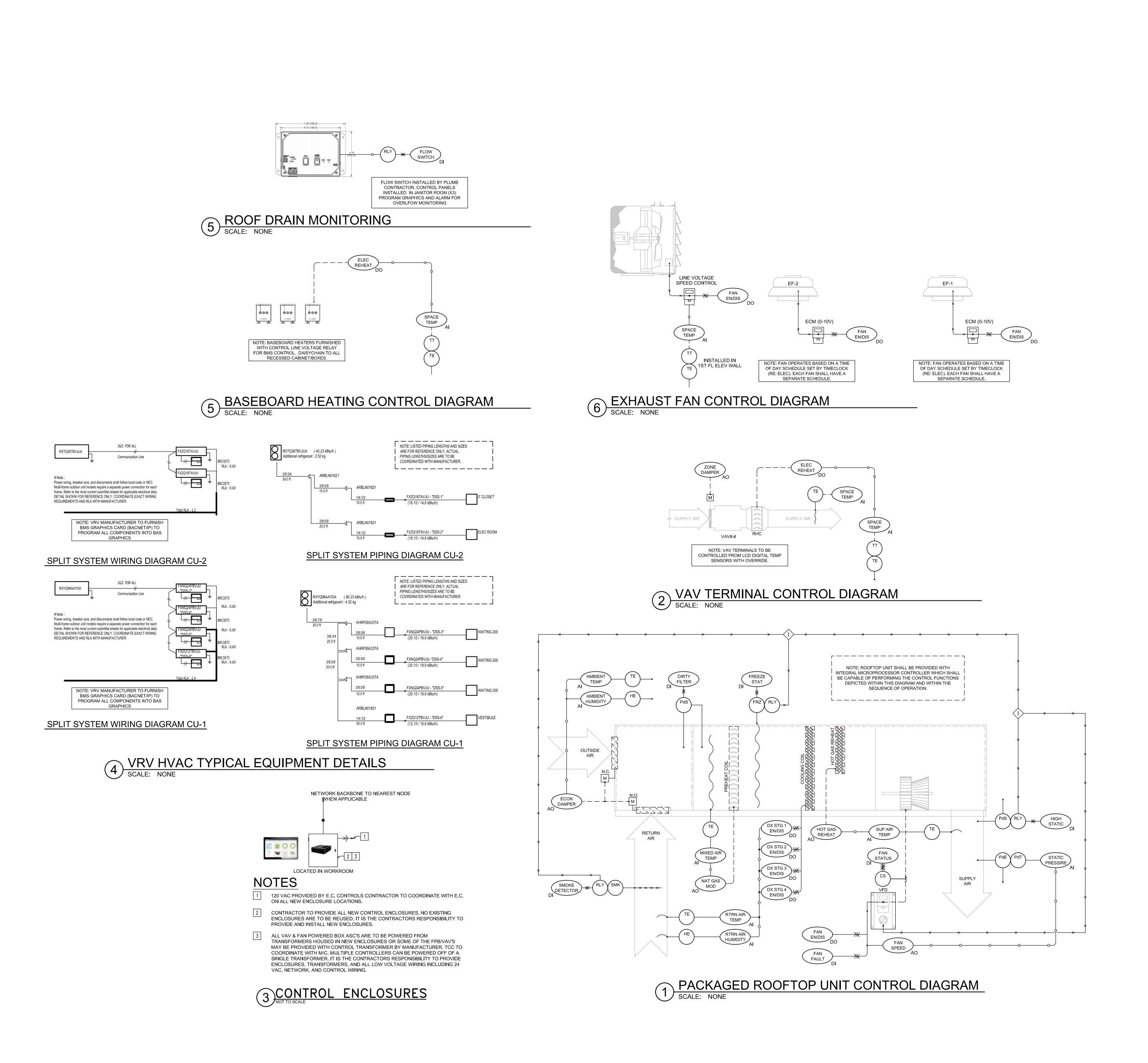
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1ST FLOOR & MEZZANINE

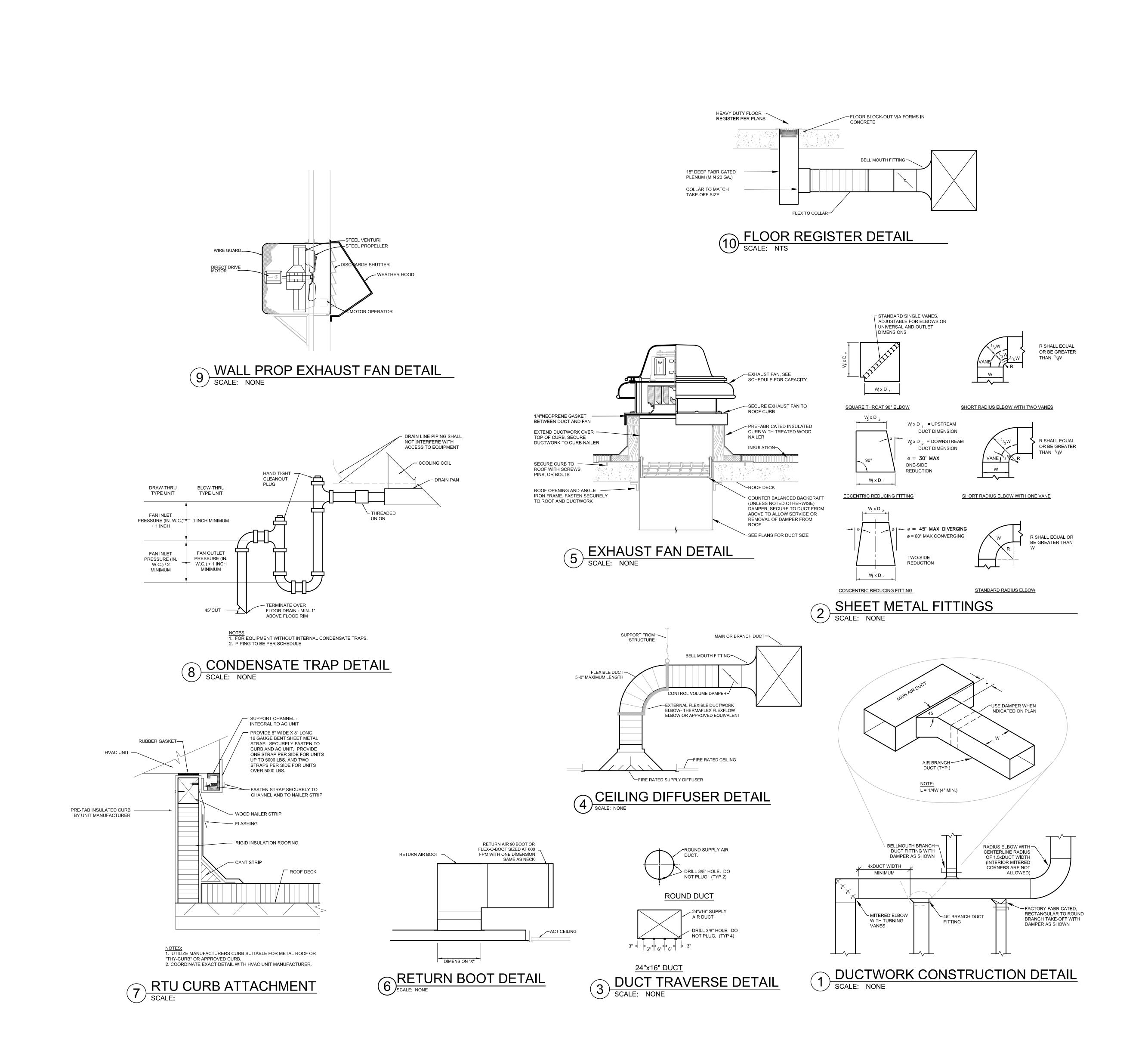
MECHANICAL PLANS M-100





CORY WILSON 01.03.2025 NUMBER PE-2010009876 Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025 LEES SUMMIT MUNICIPAL AIRPORT

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CMT 1627 MAIN STREET, SUITE 600

KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100



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RAL AVIAT

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LEES SUMMIT MUNICIPAL AIRPORT

MARK DATE DESCRIPTION

PROJECT NO: 2403

DESIGNED BY: CMW

DRAWN BY: DM

CHECKED BY: WAI

LEES SUMMIT, MO

MECHANICAL **DETAILS**

CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

CORY

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01.03.2025 NUMBER

PE-2010009876

Cory Wilson - MO #PE-2010009876

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8/1 PM

PACKA		T	SUPE	PLY FAN		FLECTS	RICAL DA	ΤΔ		IEATING I	DATA (GAS	3)			EVAPO	RATOR D	ATA		REHE	AT COIL			
MARK	SERVES	CFM	1	ESP("WC)	HP	VOLT/PH/HZ	1	МОСР	INPUT MBH	OUTPUT MBH	E.A.T.	L.A.T.	COIL ROW/FPI	GROSS		EAT DB/WB	LAT DB/WB	REF. TYPE	CAP MBH	LAT DB/WB	MANUFACTURER & MODEL	ACCESSORIES	
RTU-1	LS TERMINAL BUILDING	11000	1600	1.85	5.0	208/3/60	199	250	450	400	60	90	6/12	375	305	80/66	54.5/54	R-32	-	-/-	DAIKIN DPSC31B (30-TON VAV)	VFD,TB,DM,DD,R,CR,CG,A	D,IB,PBP,DSC,EC,SS,HF(MERV13),T
DM - F VFD - N OA - N DD - DN R - R4 CR - F CG - C AD - H IB - IN: MD - N PCK - F DSC - I	TIONS: IRU THE BASE ELECTRICAL ACTORY INSTALLED DISCONNEC ARIABLE FREQ. DRIVE EC SUPPL INIMUM OUTSIDE AIR ICT DETECTOR IN RETURN AIR D WITH FAN SHUT-DOWN RELAY 10A REFRIGERANT ACTORY POWERED GFI OUTLET OIL HAIL GUARDS NGED ACCESS DOORS SULATED BASE, NO ROOF CURB I ODULATING OUTDOOR AIR DAMI ROPANE CONVERSION KIT DIGITAL SCROLL COMPRESSORS HASE AND BROWN OUT PROTEC	LY FAN UCTWORK BY E/C REQUIRED PER CONT	ı	Y CO2 SENS	SOR		E F P S H L R H T	C - ENTI E - GAS C - PLEN SS - STAI IF - HIGH L - LOW RH - DEH IG - HOT 7-DA	HALPY CO FLUE STA NUM CURE INLESS STI I EFFICIEN LEAK OUT IUMIDIFICA GAS BYPA	NTROLLE CK EXTEN FOR HOF EEL HEAT CY THRO SIDE AIR TION REH ASS MMABLE, OR UNIT N	D ECONOI ISION BY I RIZONTAL EXCHANO WAWAY F DAMPER IEAT COIL AUTO-CH MANUFAC	MIZER WI' M/C. DISCHAR GER ILTER (ME - ANGEOVE TURER), V		<u>D RELIEF</u>		COOL/3 HI E. WHITE	EAT STAG ROGERS	E THERMOS 1F95-1271)	APF AAG DAI YOI	PROVED I ON IKIN APPL	PERATURE WIRING TO BE PROVID MANUFACTURERS (BASE BID) LIED	ED AND INSTALLED BY M/C	CONTRACTOR NOTE: UNIT SELECTED BY TMI, INC. TAYLOR SHEPHERD, TAYLOR.SHEPHERD@TMI-KC.COM AND MECHANICAL CONCEPTS. CONTROLS NOTE: CONTROLS NOTE: CONTROL MANAGER OR EQUAL WITH BACNET TOUCH SCREEN PANEL, CENTRAL CONTROL OF ALL VAV BOXES AND RTU, 7-DAY SCHEDULING. IT SHALL INCLUDE REMOTE MONITORING VIA LOCAL NETWORK, PC, SMARTPHONE, ETC. VENDOR SHALL INCLUDE CHECK, TEST, AND STARTUP. ROUTE FROM CAT-6 PATCH PANEL ETHERNET CABLING UP TO UNIT RJ45 CONNECTION ON CONTROLLER WITHIN UNI AND AT CONTROLLER. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTRO PANEL, ALL TEMPERATURE CONTROL WIRING, TEMPERATURE SENSORS, RTU FACTORY MOUNTED CONTROLLER, OUTDOOR AIR SENSOR, ETHERNET CONNECTION INTERFACE. APP STORE CONNECTIVITY, AND SOFTWARE PACKAGE

DUCT PRESSURE CLASS

BUILDING	OCC	CUPANTS/OUTSIDE	AIR C	ALCS							
UNIT DESIGNATION	ROOM NO.	ROOM DESIGNATION	AREA (FT2)	SPACE CLASSIFICATION	OCCUPANTS PER 1000 SF	ZONE OCCUPANTS	OUTDOOR AIR RATE CFM/PERSON ²	OUTDOOR AIR RATE CFM/FT2 ²	OUTDOOR AIR TO ZONE (CFM)	MINIMUM OA FOR UNIT(S)	NOTE
	- 1	OFFICE SPACES	1475	OFFICE SPACE	5	12	5	0.06	150		
	-	CONCOURSE AREAS	2600	RECEPTION AREAS	30	78	5	0.06	468		
		LOUNGES/WAITING	1000	LOUNGE	30	30	5	0.06	210	1600	
RTU-1	-	CAFE/VENDING/BREAKROOM	1320	BREAKROOM	30	40	5	0.12	360		
	-	MECHANICAL/STORAGE/TOILET	903	STORAGE	-	-	-	0.12	100	(14%)	
	-	CONFERENCE ROOMS	570	CONFERENCE ROOMS	50	26	5	0.06	193		
	- 1	LOBBIES/CORRIDOR	829	CORRIDOR	-	-	-	0.06	52		

ROOM DESIGNATIONS AND SPACE CLASSIFICATIONS ARE PRELIMINARY AND BASED UPON THE ASSUMED INTENDED USE OF THE SPACE. UPON TENANT INFILL PHASE, ACTUAL SPACE USAGE, AREA, AND OCCUPANCY SHALL BE USED TO CALCULATE OUTSIDE AIR REQUIREMENTS. ASSUMED INTENDED USE OF SPACE INCLUDES GENERAL OFFICE SPACE INCLUDING ENTRY LOBBY, RECEPTION AREA, AND CONFERENCE AREAS. SHOULD ACTUAL USE OF SPACE DIFFER,

ADDITIONAL MEANS OF VENTILATION MAY BE REQUIRED FOR COMPLIANCE WITH INTERNATIONAL MECHANICAL CODE AND ASHRAE 62 GUIDELINES. BASED UPON 2012 INTERNATIONAL MECHANICAL CODE, TABLE 403.3, DEFAULT VALUES.

	BUIL	DING AIR B	SALANCE SO	CHEDULE	
MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RETURN AIR CFM	PRESSURIZATION AIR CFM
RTU-1	11000	1500	1175	9825	+325
TOTALS	11000	1500	1175	9825	+325
SEE NOTE	UNIT OUTSIDE AIR IS			AIR DAMPER. POWE	RED RELIEF

	WALL	UNIT HE	EATER			 	
1	MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
4	WH-1	REAR EXIT	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL
-							
<u>-</u>	2. WALL BR	EDISCONNECT S ACKET.		TE INSTALLATION.			

				OUTLET	AIRFL	.OW	ŀ	HTG COIL	(ELECTRIC			PRE	SSURE	CONTR	OLS		
MARK	MAKE	MODEL	INLET	SIZE	CLG/MIN	HTG	EAT	LAT	VOLT/PH	KW/STAGE	MOCP	ISP	ESP	TYPE	DIAG	NC	ACCESSORIES
VAV-1	DIAKIN	MQTHI5	10"Ø	14x10	650/125	500	60	90	208/1	5.0/2	35	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-2	DIAKIN	MQTHI5	8"Ø	12x10	450/100	375	60	90	208/1	4.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-3	DIAKIN	MQTHI5	6"Ø	12x10	375/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-4	DIAKIN	MQTHI5	10"Ø	14x10	625/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-5	DIAKIN	MQTHI5	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-6	DIAKIN	MQTHI5	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-7	DIAKIN	MQTHI5	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-8	DIAKIN	MQTHI5	6"Ø	12x10	300/75	250	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-9	DIAKIN	MQTHI5	12"Ø	16x14	1550/300	1250	60	90	208/3	12.0/SCR	50	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-10	DIAKIN	MQTHI5	10"Ø	14x10	900/200	750	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-11	DIAKIN	MQTHI5	12"Ø	16x14	1500/300	1300	60	90	208/3	12.0/SCR	50	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-12	DIAKIN	MQTHI5	10"Ø	14x12	825/175	725	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-13	DIAKIN	MQTHI5	10"Ø	14x12	900/200	750	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP
VAV-14	DIAKIN	MQTHI5	10"Ø	14x12	600/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-15	DIAKIN	MQTHI5	14"Ø	18x14	2000/400	1600	60	90	208/3	15.0/SCR	60	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-16	DIAKIN	MQTHI5	10"Ø	14x12	1000/200	800	60	90	208/3	8.0/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF
VAV-17	DIAKIN	MQTHI5	10"Ø	14x12	625/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LF

AV - AIR VALVE / DAMPER C - CONTROLLER CON - CONSTANT VOLUME CT - CONTROL TRANSFORMER (NOTE 6) DDC - DIRECT DIGITAL CONTROLS

ELEC - ELECTRIC ESP - EXTERNAL STATIC PRESSURE F - FILTERS FA - FAN ACCESS PANEL FS - HEATER AIR FLOW SWITCH NR - NIGHT SHUT-OFF REL CS - CROSS HAIR AVERAGING FLOW SENSOR SI - SIDE PLENUM INLET LP - LOW PROFILE HEIGHT

L - "FIBRE-FREE" LINING ML - MINIMUM VOLUME LIMITER MR - MORNING WARM-UP RELAY MV - MAXIMUM VOLUME LIMITER NR - NIGHT SHUT-OFF RELAY

TI - TOP PLENUM INLET VA - VALVE / DAMPER ACCESS PANEL VAV - VARIABLE AIR VOLUME VR - PNEUMATIC VOLUME REGULATOR 2WV - 2-WAY CONTROL VALVE PACKAGE 3WV - 3-WAY CONTROL VALVE PACKAGE

1. PROVIDE UNIT MOUNTED DISCONNECT. 2. CONTROL WIRING TO BE 24V. COORDINATE PRIMARY VOLTAGE WITH ELECTRICAL CONTRACTOR.

MARK	SERVES	COLOR	DAMPER	PATTERN	SIZE	MAX NC	MAX PD IN WC	MANUFACTURER & MODEL	REMARK
SD-1	SUPPLY	WHITE	-	4-WAY	24x24	30	0.1	TITUS OMNI-24x24-XX-3	1-6
SD-2	SUPPLY	WHITE	-	2-WAY	48"x6"	30	0.1	TITUS TBDI-80, 3 SLOT, 1" WIDTH	1-6, 8
SD-3	SUPPLY	WHITE	-	2-WAY	24"x6"	30	0.1	TITUS TBDI-80, 3 SLOT, 1" WIDTH	1-6, 8
SD-4	SUPPLY	WHITE	-	4-WAY	12"x12"	30	0.1	TITUS OMNI-12x12-XX-3	1-6
SD-5	SUPPLY	WHITE	-	JET THROW	CONT.	30	0.1	FL-25-JT-26 (16FT), FBPI-2-48"	1,10
SD-6	SUPPLY	WHITE	-	JET THROW	CONT.	30	0.1	FL-25-JT-26 (16FT), FBPI-2-48"	1,10
SR-1	SUPPLY	WHITE	OBD	DOUBLE DEFLECTION	VARIES	30	0.1	TITUS 300RL-1-XX	1-5,7
RG-1	RETURN	WHITE	-	PERFORATED	24"x24"	25	0.1	TITUS PAR-24x24-XX-3	1-3
RG-2	RETURN	WHITE	-	FIXED	VARIES	25	0.1	TITUS 350-1-XX	1-3
RG-3	RETURN	WHITE	-	PERFORATED	12"x12"	25	0.1	TITUS PAR-12x12-XX-3	1-3
EG-1	EXHAUST	ALUMINUM	YES	FIXED	VARIES	25	0.1	TITUS 23RL-AA	1-2
FR-1	SUPPLY	ALUMINUM	NO	2-WAY	6"Wx36"L	25	0.1	TITUS CT581	11
FR-2	SUPPLY	ALUMINUM	NO	2-WAY	6"Wx24"L	25	0.1	TITUS CT581	11
NECK SIZE STEEL CO FRONT BI SIZE INDI	ORDER TYPE REQUIRED INDICATED ON PLANS. INSTRUCTION, WHITE IN LADES PARALLEL WITH INCATED ON PLANS.	COLOR. LONG DIMENSION.	G / FLANGE, TYPE	E 3 LAY-IN).	2. EQUIVA	LENT SUBSTITUT T:	ΓΙΟΝ BY PRICE, N	ESS NOTED DIFFERENT ON DRAWINGS AILOR, KRUEGER CONCRETE FLOOR WITH FIELD INS	TALLED

SIZE INDICATED ON PLANS. PERFORATED FACE TO BE FLUSH WITH CEILING. PROVIDE WITH INTERNAL BALANCE DAMPER INSULATED PLENUM WITH OVAL DUCT COLLAR FOR SLOT DIFFUSER PERFORATED FACE AND ASSOCIATED BORDER (LAY-IN), BOOT PER PLANS O. TITUS FLOW BAR CONTINUOUS DIFFUSER, SINGLE 2" SLOT. INSTALL INSULATED PLENUMS IN 48" LENGTHS BEHIND DIFFUSER WITH SIZE AS INDICATED.

EXHAUST FAN SCHEDULE DRAWING LOCATION

PLENUM. REFER TO INSTALLATION DETAIL. REGISTER TO BE ALUMINIUM IN COLOR.

TAG	CFM	SP (IN. W.C.)	MOTOR HP/WATTS	RPM	DRIVE TYPE	SERVICE/MOUNTING	ELECTRICAL	MANUFACTURER MODEL NUMBER	ACCESSORIES	DR A
EF-1	550	0.35	1/4	1725	DIRECT	BATHROOM EXHAUST/ROOF	120V/1PH	COOK ACED-EC(101C17DEC)	RC,DM,GBD,SC	
EF-2	700	0.35	1/4	1725	DIRECT	BATHROOM EXHAUST/ROOF	120V/1PH	COOK ACED-EC(101C17DEC)	RC,DM,GBD,SC	
EF-3	500	0.15	1/20	1550	DIRECT	ELEVATOR EXHAUST/WALL	120V/1PH	COOK XPD-10 (10XW28D15)	WC,GBD,SC,WS,WH,T	
GBD - GR WC - DM - GBD - MBD - SC - AS - WG - IG - T -	OF CURB ICONNECTINI RAVITY BACK WALL CO DISCONI GRAVITY MOTORI SPEED C HEAVY D WIRE GL SQUARE BMS INS	DRAFT DAMPER DLLAR NECT MEANS ' BACKDRAFT ZED BACKDRA CONTROLLER DUTY MOTORI	AFT DAMPER (0-10V) ZED ALUMIN E SG-10 WITH SENSOR IN	UM SHUT H DAMPER SHAFT TO	R BD-10	RJ - COOK MODEL RJR100 WCA - COOK MODEL WCR6 - ALUM WALL CAP WITH BACKDRAFT DAMPER WS - COOK MODEL GSS STANDARD DUTY ALUMINUM GRAVITY SHUTTER WH - COOK WEATHER HOOE	H R		:: TO BE CONTROLLED FF F DAY SCHEDULING.	ROM

P	PING	_	_				FIT	TINGS	MAX. V	/ORKING	FIELD	TEST
SYSTEM	SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	МАТ.	TYPE	PRESS (PSI)	TEMP (°F)	PRESS (PSI)	TIM
CONDENSATE DRAIN ABOVE GRADE	ALL	М			B88	CP	СР	DR\S	10FT	40-70	10FT	1 H
REFRIGERANT PIPING	ALL	ACR			B280	CP	CP	S	150	40-140	200	4 H
BS - BELL & SPIGOT CI - CAST IRON CP - COPPER CS - CARBON STEEL CW - CONTINUOUS WELD DI - DUCTILE IRON DR - DRAINAGE FITTING GLV - GALVANIZED LC - LEAD CAULKING MI - MALLEABLE IRON		SJ - SOL SL - SEA	YETHYLI LYVINYL ZED JOIN DER JOIN MLESS S NDARD S LVENT W HREADED	CHLORII T - SILVE NT 95-5 T TEEL STRENG1 ELD	ER BRAZINO IN-ANTIMO							

SYSTEM/FAN		LOCATION/DUCT INVOLVED		POSITIVE OR NEGATIVE PRESSURE	PRESSURE CLASS (IN W.G.)	DUCTWORK TYPE	INSULATION TYPE/THICKNESS (IN)
RTU-1		RECTANGULAR SUPPLY/EXHAL	JST	POS/NEG	4"	TDC FLANGED	1" THICK 1.5 LB/FT^3 1" THICK
RTU-1		ROUND SUPPLY/EXHAUST		POS/NEG	4"	SPIRAL	1" THICK 1.5 LB/FT^3 1" THICK
2. THIS SCHED	ED AS DUCTWORK WE JLE REFERS TO NEW ESSURE CL		S FOR MAKE, DENSITY,	R-VALUE			
DUCT PRI	ESSURE CL	-A33				SMACNA LEA	KAGE CLASS
1" OR 2" PRE	SSURE CLASS	SEAL CLASS "C"	TRAVERS	SE JOINTS ONLY APPLICABL	LE SEALING	RECT - 24	ROUND - 12
3" PRESSI	JRE CLASS	SEAL CLASS "B"	TRAVERSE J	OINTS AND SEAMS APPLIC	ABLE SEALING	RECT - 12	ROUND - 6

3" PRESSURE CLASS	SEAL CLASS "B"	TRAVERSE JOINTS AND SEAMS APPLICABLE SEALING	RECT - 12	ROUND - 6
4", 6" OR 10" PRESSURE CLASS	SEAL CLASS "A"	TRAVERSE JOINTS, SEAMS, AND ALL WALL PENETRATIONS	RECT - 6	ROUND - 3
APPLICATION / INSUI	LATION			
SYSTEM		DESCRIPTION		
RTU-1		DUCT WRAP		
RETURN		ARMACELL ACCOUSTIC FIBER-FREE LINER	₹	
DUC	TLESS SPLIT S	YSTEM SCHEDULE		
SUSPENDED/WALL AI	R CONDITIONE	ER		

MARK	MFG.	MODEL#	CFM		S.P. F	AN C	COOLING	G CAPACIT	HEAT CAPACITY	ELECTRIC	AL DAT	ГА	ACCECCODIEC	ASSOC
MARK	WFG.	MODEL#	LO/H	=.	K	W E	Ξ.Α.Τ.	THC	MBH	VOLT/PH	MCA	МОСР	ACCESSORIES	HP
DSS-1	DIAKIN	FXZQ18TAVJU	400/60	0.00	15 0.	05	75/63	16.0	18.0	208/1	1.8	15	T,C,IC,SP,R,A,FS,LS	1
DSS-2	DIAKIN	FXZQ18TAVJU	400/60	0 0.	15 0.	05	75/63	16.0	18.0	208/1	0.6	15	T,C,IC,SP,R,A,FS,LS	1
DSS-3-5	DIAKIN	FXMQ24PVJU	400/68	30 0.	15 0.	02	75/63	20.6	28.0	208/1	1.8	15	T,C,IC,SP,R,A,FS,LS	2
DSS-6	DIAKIN	FXZQ18TAVJU	200/40	00 0.	15 0.	02	75/63	10.0	14.0	208/1	0.8	15	T,C,IC,SP,R,A,FS,LS	1
1 1 - ^	T DI 18 45	3 /3/3kirsek												
HEA	T PUME	CONDEN	12111	<u>ال ن</u>	<u> </u>		-							
	MFG.	MODEL#	AMB. TEMP.	U ک HTG MBH	CLG TH MBH	IC V/PH	н мса	MOCP	ACCESSORIE	S				
			AMB.	HTG	CLG TH				ACCESSORIE LA,C,SP,T,R,LS	S				
MARK	MFG.	MODEL#	AMB. TEMP.	HTG	CLG TH	V/PH	1 29.1	35		s				

MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
EWH-1	REAR EXIT	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL
EWH-2	VESTIBULE	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL
2. WALL BF	E DISCONNECT S RACKET.		TE INSTALLATION.			

MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
BEH-1	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F9936-01-200	208/1	600/2.88	ALL
BEH-2	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F9972-01-200	208/1	1200/5.77	ALL
BEH-3	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F99120-01-200	208/1	2000/8.33	ALL
2 ACCESSO 3 CONTRO	L RELAY FOR C	NG FEET, STA ONTROLS BY	INLESS STEEL ELEMENT, 3/4" WIREWAY BMS. D ALUMINUM, CLEAR ANODIZED FINISH	AND KNOCKOUTS E	ACH END.	

CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

WILSON 01.03.2025 NUMBER PE-2010009876 Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

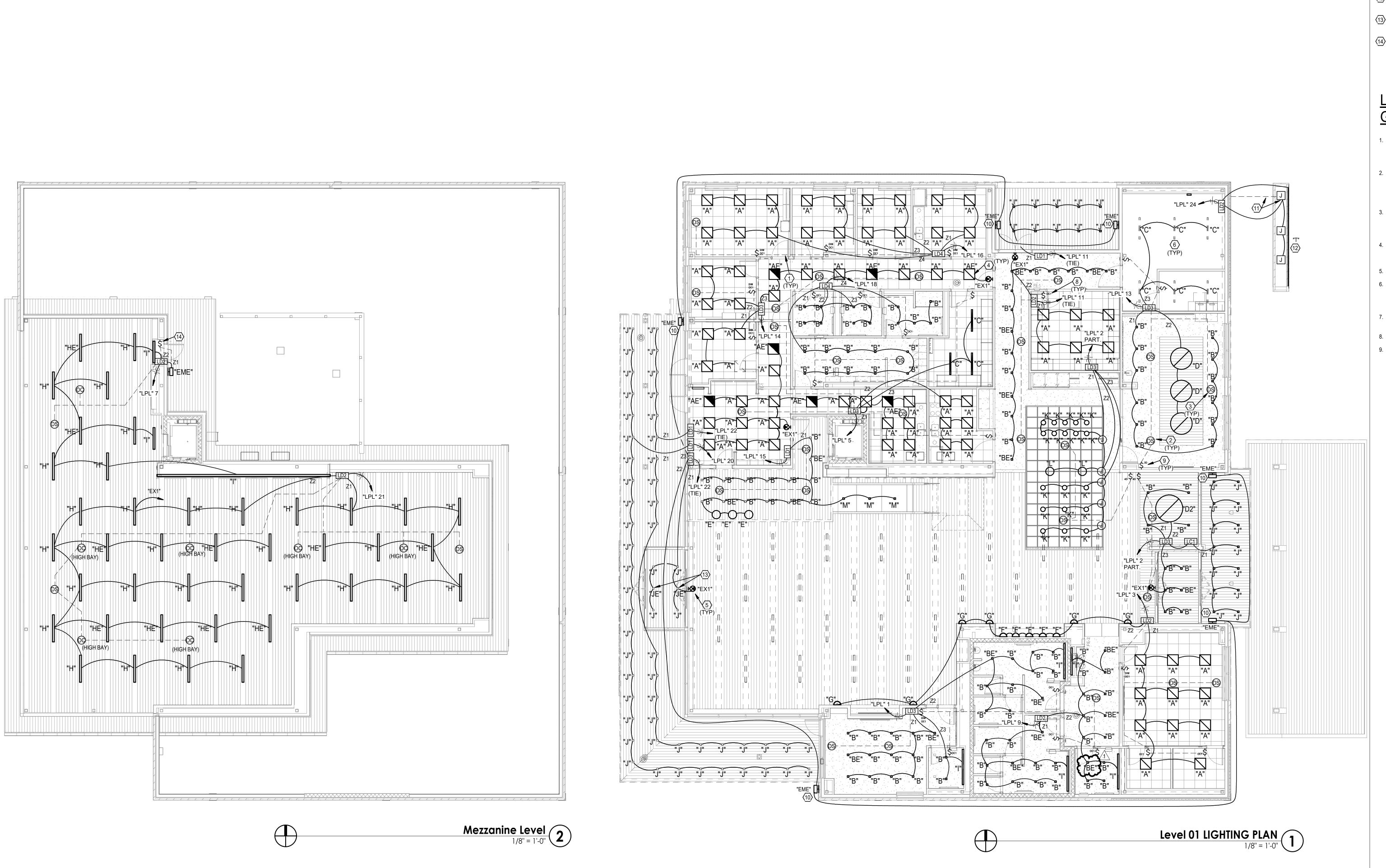
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SHEET TITLE

MECHANICAL SCHEDULES

M-500 SHEET 90 OF 102

8/1 PM



<u>LIGHTING</u> **PLAN NOTES**

1 ROUTE CAT-6 CABLING FOR ALL CONTROL DEVICES TO CONTROLLER.

DUAL TECHNOLOGY (PIR/US) LOW VOLTAGE CEILING OCCUPANCY SENSOR FURNISEHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION

CABLING TO CONTROLLER. TYPICAL DAYLIGHT HARVESTING SENSOR MOUNTED IN CEILING WITHIN 60" OF WINDOW.

FIXTURES WITHIN DRYWALL CEILING LID TO BE FURNISHED WITH PLASTER FRAM (TYP, RE: ARCH REFLECTED CEILING

5 INCLUDE 'HOT' UNSWITCHED CONDUCTOR WITH CIRCUITS THAT POWER EMERGENCY BATTERY PACK.

6 SUSPEND LED STRIP FIXTURE WITH CHAINS AT 8'-0" AFF. DIGITAL LIGHTING CONTROLLER (1-4 CIRCUIT) MOUNTED ABOVE CEILING ON WALL 12" ABOVE GRID (LD FOR

DIMMING, LC FOR GROUP CONTROL).

TYPICAL DUAL TECHNOLOGY (PIR/US) WALL SWITCH OCCUPANCY SENSOR WITH OVERRIDE OFF AND PUSH TO DIM FURNISHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION CABLING TO CONTROLLER.

TYPICAL MULTI-BUTTON DIGITAL SWITCH SENSOR FURNISHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION CABLING CONTROLLER. PROGRAM PER SEQUENCES FOR DAYLIHGTING, PUSH TO

MOUNT EXTERIOR FIXTURE AT 108" AFF PROVIDE SURFACE MOUNTING PLATE AND CONDUIT ENTRY. EXTERIOR EMERGENCY FIXTURES SHALL COME WITH BUILT-IN

PROVIDE 2#12, #12G., 3/4" UG CONDUIT FROM PANELBOARD SERVING LOAD TO JUNCTION BOX FOR MONUMENT SIGN POWER. FINAL CONNECTION BY MONUMENT SIGN VENDOR.

LED STRIP LIGHTING ON FRONT OF MONUMENT SIGN. RE: ARCH DRAWINGS FOR ADDITIONAL DETAILS.

> PROVIDE "JE" TYPE LIGHT FIXTURE WITH SURE-LITES (13) EBPLEDL EMERGENCY BATTERY PACK RE: DETAIL 6/E-400.

MANUAL OVERRIDE SWITCH FOR EXTERIOR MEZZANINE (14) "EME" LIGHT FIXTURE. SWITCH TO ALLOW FIXTURE TO REMAIN OFF IN NORMAL OPERATION AND TURN ON VIA SWITCH OR EMERGENCY POWER.

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LOCAL VERSION OF THE NATIONAL ELECTRIC CODE AND NFPA AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- 2. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS BEFORE ANY PIPING, DUCTWORK,
 CONDUIT, ECT. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- 3. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTORS.
- 4. VERIFY IN FIELD, THE LOCATION OF ALL STRUCTURAL MEMBERS. CEILINGS ARE SHOWN SCHEMATICALLY FROM ARCHITECTURAL PLANS.
- 5. ROUTE ALL CONDUIT TIGHT TO STRUCTURE.
- 6. LIGHT FIXTURES DESIGNATED WITH THE LETTER "E" (I.E "DE", "BE", ETC.) SHALL BE CONNECTED TO CIRCUIT SHOWN THAT SHALL AUTOMATICALLY SIWTCH TO EMERGENCY POWER IN THE EVEN OF A NORMAL POWER LOSS.
- . PROVIDE ALL LED DIMMABLE FIXTURES WITH 0-10V DIMMABLE DRIVERS.
- 8. REFER TO SHEET E-400 FOR DIMMING SWITCH BANKS.
- 9. EXIT LIGHTS SHALL BE CIRCUITED TO UNSWITCHED HOT, TYPICAL ALL EXITS THROUGHOUT.



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01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT. MO

01.03.25 CITY REVIEW COMMENTS

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Hangar 2.rvt DESIGNED BY: CMW DRAWN BY: MR

CHECKED BY: WAI APPROVED BY: APPROVER COPYRIGHT 2023

LIGHTING PLANS

E-100

MADIC	HTG C	OIL (ELE	CTRIC)	DANIEL	FFFDFD
MARK	VOLT/PH	KW	MOCP	PANEL	FEEDER
VAV-1	208/1	5.0	35	LPH/1	2 - #8 AND 1-#10G IN 0.75" C
VAV-2	208/1	4.0	30	LPH/2	2 - #10 AND 1-#10G IN 0.75" C
VAV-3	208/1	2.5	20	LPH/5	2 - #12 AND 1-#10G IN 0.75" C
VAV-4	208/1	5.0	35	LPH/6	3 - #8 AND 1-#10G IN 0.75" C
VAV-5	208/1	2.5	20	LPH/9	2 - #12 AND 1-#12G IN 0.75" C
VAV-6	208/1	2.5	20	LPH/10	2 - #12 AND 1-#12G IN 0.75" C
VAV-7	208/1	2.5	20	LPH/13	2 - #12 AND 1-#12G IN 0.75" C
VAV-8	208/1	2.5	20	LPH/14	2 - #12 AND 1-#12G IN 0.75" C
VAV-9	208/3	12.0	45	LPH/17	3 - #8 AND 1-#10G IN 0.75" C
VAV-10	208/3	7.5	30	LPH/18	3 - #10 AND 1-#10G IN 0.75" C
VAV-11	208/3	12.0	45	LPH/23	3 - #8 AND 1-#10G IN 0.75" C
VAV-12	208/3	7.5	30	LPH/24	3 - #10 AND 1-#10G IN 0.75" C
VAV-13	208/3	7.5	30	LPH/29	3 - #10 AND 1-#10G IN 0.75" C
VAV-14	208/1	5.0	35	LPH/30	2 - #10 AND 1-#10G IN 0.75" C
VAV-15	208/3	15.0	60	MDP-7	3 - #6 AND 1-#10G IN 1" C
VAV-16	208/3	8.0	30	LPH/34	3 - #10 AND 1-#10G IN 0.75" C
VAV-17	208/1	5.0	35	LPH/40	2 - #10 AND 1-#10G IN 0.75" C
BES-1/2	208/1	3.0	20	LPH/43	2 - #12 AND 1-#12G IN 0.75" C
BES-3	208/1	2.0	20	LPH/47	2 - #12 AND 1-#12G IN 0.75" C
BES-3	208/1	2.0	20	LPH/52	2 - #12 AND 1-#12G IN 0.75" C
EWH-1	208/1	3.0	20	LPH/44	2 - #12 AND 1-#12G IN 0.75" C
EWH-2	208/1	3.0	20	LPH/48	2 - #12 AND 1-#12G IN 0.75" C
WH-1/WH-2	120/1	0.5	20	LPH/56	2 - #12 AND 1-#12G IN 0.75" C
/RV INDOOR	208/1	0.5	20	LPH/55	2 - #12 AND 1-#12G IN 0.75" C
'RV INDOOF	208/1	0.5	20	LPH/63	2 - #12 AND 1-#12G IN 0.75" C
CU-1	208/1	5.5	35	LPH/51	2 - #8 AND 1-#12G IN 0.75" C
CU-2	208/3	7.5	60	LPH/59	3 - #6 AND 1-#12G IN 0.75" C

POWER PLAN NOTES

- (1) LOCATION OF MAIN DISCONNECT/MANUAL TRANSFER SWITCH WITH HOOK-UP, CT CABINET (36" WIDE, LOCKABLE), METER. SURFACE MOUNT ON WALL.
- (2) FACTORY INSTALLED DISCONNECTING MEANS/BREAKER FURNISHED WITH VAV EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR ALL FEEDERS TO HVAC EQUIPMENT.
- (3) NEW NEMA 3R DISCONNECT "DS1" WITH LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONNECTION TO MECHANICAL
- 4 PROVIDE DEDICATED QUAD RECEPTACLES FOR SERVER OR A/V EQUIPMENT LOCATED IN RACKS. INSTALL ONE WALL MOUNTED CABINET PER DETAILS WITH BUILT-IN OUTLET

INTO BUILDING. FIELD VERIFY EXACT REQUIREMENTS.

(5) INSTALL 5/8" THICK, FIRE RATED PLYWOOD TERMINATION BOARD ON THE ENTIRE WALL. PAINT TO MATCH WALL

EQUIPMENT. ROUTE CONDUIT THRU WALL ON LOWER ROOF

- 6 PROVIDE 30A, 1P DISCONNECT SWITCH FUSED AT 20A FOR ELEVATOR HOISTWAY CAB LIGHTING AND RECEPTACLES.
- (7) FURNISH SO DROP BOX AT CEILING WITH NEMA L5-30P DROP FOR CONNECTION TO RACK MOUNTED UPS UNIT.
- $\langle 8 \rangle$ FURNISH (1) DOUBLE GANG JUNCTION BOXES FOR SYSTEMS FURNITURE FEED CONNECTIONS (POWER). PROVIDE SINGLE GANG MUD RING FOR 0.75" (POWER) WHIP CONNECTION.

FURNISH ALL IN-FEEDS PER MANUFACTURER (2+1).

- (9) 12" WIDE x 2" DEEP WIRE BASKET CABLE TRAY EQUAL TO COOPER B-LINE MODEL WB212-CW. PROVIDE ALL-THREAD SUPPORTS FROM CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH DUCTWORK AND PIPING (MOUNT AS HIGH AS POSSIBLE). PROVIDE CONTINUOUS GROUND WIRE ATTACHED TO EACH WIRE BASKET SECTION, TERMINATING AT SERVER ROOM GROUND BAR. INSTALL TEES, SUPPORTS, FITTINGS, ETC PER MANUFACTURER SPECIFICATIONS.
- (10) PROVIDE NEW SINGLE GANG BACKBOX WITH 0.5" CONDUIT TO ABOVE CEILING FOR THERMOSTAT/SENSOR WIRING. ALL TEMPERATURE CONTROL WIRING AND DEVICES SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- (11) SCHEMATIC LOCATION OF NEW VAV BOX WITH ELECTRIC REHEAT. CONFIRM EXACT LOCATION WITH MECHANICAL PLANS. CONFIRM EXACT MOCP WITH MECHANICAL PLANS TO COORDINATE BREAKER/WIRE SIZE. VAV'S FURNISHED WITH INTEGRAL DISCONNECT. SEE SCHEDULE ON THIS SHEET.
- (12) ASOS EQUIPMENT BOX ON WALL WITH POWER TERMINATED AT JUNCTION BOX. CIRCUIT 2-#12 AND 1 - #12 GROUND TO 20A/2P BREAKER PER PANEL SCHEDULE.

- (13) WHERE A DATA SYMBOL IS SHOWN ON THE PLANS, PROVIDE DOUBLE GANG BACKBOX WITH SINGLE GANG MUD RING. PROVIDE 1" CONDUIT TO ABOVE CEILING TERMINATING WITH BUSHING. (TYP OF ALL SHOWN ON THE PLANS). RE: ROUGH-IN DETAIL. ANY SCIF PERIMETER WALL SHALL BE SURFACE MOUNTED CONDUIT AND BACKBOXES. INTERIOR
- (14) CIRCUIT HOMERUN FROM EXHAUST FAN THRU DDC RELAY FOR TIME CLOCK CONTROL.
- (15) FLOOR COPIER RECEPTACLE.

OWNER TELECOMM CONTRACTOR).

SCIF WALLS CAN BE RECESSED.

- (16) PROVIDE NEW WALL RECEPTACLE AND LOW VOLTAGE ROUGH-IN BOXES FOR FLAT SCREEN TELEVISION. INSTALL AT 72" AFF PER ARCH PLANS. PROVIDE INSTALLATION PER DETAIL FOR WIREMOLD A/V PREMANUF. BOX. ROUTE HDMI AND CAT-6 TO WALL BOX IN CONDUIT (COORDINATE WITH
- (17) WIREMOLD DS4000 SERIES DUAL CHANNEL PLUGMOLD WITH OUTLETS AT 12" O.C. AND LOW VOLTAGE SECTION FOR TELECOMM OUTLET AND PANIC HARDWARE MOUNTING WITHIN. MOUNT 4" ABOVE TOP OF COUNTER.
- (18) MOUNT MAINTENANCE RECEPTACLE TO OUTSIDE OF WALL ABOVE LOWER ROOF AT 24" ABOVE ROOF LINE. INSTALL WITHIN WEATHERPROOF-IN-USE ENCLOSURE. ROUTE CONDUITS THRU WALL.
- 2-POST RACK WITH RACK MOUNTED UPS AND PATCH PANELS (BY OTHERS). PROVIDE SO CORD DROP TO CONNECT TO RACK MOUNTED UPS INPUTS WITH MULTIPLE NEMA 5-15R OUTLETS WITHIN RACK.

(19) TELECOM CONTRACTOR FURNISHED FLOOR MOUNTED

- PROVIDE COOPER, LEVITON, OR HUBBEL 12" LONG GROUND BAR WITH INSULATORS, (6) #4 MAX LUGS.
- (21) TYPICAL LOCATION OF CAMERA BY OTHERS. FURNISH JUNCTION BOX AND CONDUIT TO ABOVE CEILING IF INSTALLED WITHIN WALL. USE RADIUS ELBOW AND TERMINATE WITH BUSHING.
- (22) FURNISH CARD READER JUNCTION BOX AND CONDUIT WITHIN WALL TO 4X4 JUNCTION BOX ABOVE DOOR. REFER TO SECURITY ROUGH-IN DETAIL.

UTIL XEMR

EVERGY PRIMARY

- (23) CABLE TRAY TO STOP PRIOR TO WALL (12") WITH LEGRAND EZPASS THRU-WALL BARRIER (3 SECTIONS PARTITIONS FOR EACH NETWORK). EZPASS FURNISHED AND INSTALLED BY
- (24) TRIPPLITE 12U WALL IT CABINET FOR PA SYSTEM (1) AND CRESTRON EQUIPMENT (1). PROVIDE L5-20R OUTLÉT BEHIND CABINET FOR CONNECTION TO RACK MOUNTED PDU.

- (25) QUAD OUTLET AND SPECIAL A/V OUTLET INSTALLED UNDERCABINET FOR CRESTRON EQUIPMENT. RE: ELEV.
- (26) CONDUIT FROM BELOW SLAB UP INSIDE OF WALL WITH JUNCTION BOX ROUTING TO DUPLEX OUTLETS IN WALL.
- FEEDER SCHEDULE
- (1) (4)-#250MCM AND (1)-#4 GROUND IN 2.5" CONDUIT.
- (2)-#10 AND (1) #10 GROUND IN 3/4" CONDUIT. (3)-#10 AND (1) #10 GROUND IN 3/4" CONDUIT.
- (2)-#8 AND (1) #10 GROUND IN 3/4" CONDUIT. (5) (3)-#6 AND (1) #10 GROUND IN 3/4" CONDUIT.



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LEES SUMMIT MUNICIPAL AIRPORT

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PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

DESIGNED BY: CMW DRAWN BY: DM CHECKED BY: WAI

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SHEET TITLE POWER PLANS

> E-110 SHEET 92 OF 102

POWER PLAN - LEVEL 1

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

E — F G — (H)—

POWER PLAN - LEVEL 2

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

A -----

B ------

(J)------

	OADLE	CARLE	COMMUNICATIONS CAB	LING LEGE	END
CABLE	QTY	COLOR	DESCRIPTION	HEIGHT (NOTE 4)	COMMENTS
CAT-6	2	GREEN	DATA RECEPTACLE - WALL	WALL +18"	MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE ON PLANS
CAT-6	2	GREEN	DATA RECEPTACLE - ABOVE CEILING	CEILING	PROVIDE A BISCUIT JACK ABOVE THE ACCESSIBLE CEILING SPACE
CAT-6	2	GREEN	WIRELESS ACCESS POINT UNIFY 7 U7 PRO MAX, TRI-BAND, 1750 SF COVERAGE AND 500 USERS MAX. BLACK IN COLOR ON WOOD SLAT CEILINGS, WHITE IN LAY-IN CEILINGS	CEILING	PROVIDE A BISCUIT JACK ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE A 10' SERVICE LOOP AT WAP LOCATION. WIRELESS ACCESS POINT SHALL BE FURNISHED AND INSTALLED BY DIV. 27 CONTRACTOR. CONFIRM FINAL LOCATIONS OF WAP'S WITH OWNER PRIOR TO INSTALLATION.
CAT-6	2	GREEN	DATA RECEPTACLE - FLOOR BOX	FLOOR	DIV 26 FURNISHED FLOOR BOX/POKE-THRU, DIV 27 CONTRACTOR INSTALLED DEVICES
CAT-6	1	GREEN	TV OR AUDIOVISUAL FLAT PANEL DISPLAY.	NOTE 2	COORDINATE FINAL ROUGH-IN REQUIREMENTS WITH A/V CONTRACTOR. PROVIDE BACKING FOR DISPLAY MOUNTING PER DETAIL.
CAT-6	1	PURPLE	CCTV CAMERA (I.P., POE)	NOTE 3	COORDINATE FINAL ROUGH-IN REQUIREMENTS WITH SECURITY CONTRACTOR. FINAL CAMERA LOCATION MAY VARY BY +/- 15'.
CAT-6	1	PURPLE	ACCESS CONTROL PANEL	NOTE 3	
(2)-#12			PA-WHITE NOISE SPEAKER		SHIELDED TWISTED PAIR WIRING
-					
	CABLE TYPE (CAT-6 CAT-6 CAT-6 CAT-6 CAT-6 CAT-6 CAT-6	TYPE (NOTE 1 CAT-6 2 CAT-6 2 CAT-6 2 CAT-6 1 CAT-6 1 CAT-6 1	CABLE QTY COLOR (NOTE 5) CAT-6 2 GREEN CAT-6 2 GREEN CAT-6 2 GREEN CAT-6 1 GREEN CAT-6 1 PURPLE CAT-6 1 PURPLE	CABLE OTY COLOR TYPE (NOTE 1) (NOTE 5) DESCRIPTION CAT-6 2 GREEN DATA RECEPTACLE - WALL CAT-6 2 GREEN DATA RECEPTACLE - ABOVE CEILING CAT-6 2 GREEN WIRELESS ACCESS POINT UNIFY 7 U7 PRO MAX, TRI-BAND, 1750 SF COVERAGE AND 500 USERS MAX. BLACK IN COLOR ON WOOD SLAT CEILINGS, WHITE IN LAY-IN CEILINGS CAT-6 2 GREEN DATA RECEPTACLE - FLOOR BOX CAT-6 1 GREEN TV OR AUDIOVISUAL FLAT PANEL DISPLAY. CAT-6 1 PURPLE CCTV CAMERA (I.P., POE)	CABLE QTY (NOTE 1) COLOR (NOTE 5) DESCRIPTION (HEIGHT (NOTE 4)) CAT-6 2 GREEN DATA RECEPTACLE - WALL +18" CAT-6 2 GREEN DATA RECEPTACLE - ABOVE CEILING CEILING CAT-6 2 GREEN WIRELESS ACCESS POINT UNIFY 7 U7 PRO MAX, TRI-BAND, 1750 SF COVERAGE AND 500 USERS MAX. BLACK IN COLOR ON WOOD SLAT CEILINGS, WHITE IN LAY-IN CEILINGS CAT-6 2 GREEN DATA RECEPTACLE - FLOOR BOX FLOOR CAT-6 1 GREEN TV OR AUDIOVISUAL FLAT PANEL DISPLAY. CAT-6 1 PURPLE CCTV CAMERA (I.P., POE) NOTE 3

NOTES (**)

** FOR ALL FIBER OUTLET LOCATIONS, INSTALL WAC-1X

TO PULL CABLING THRU WITH SIDE OUTLET

LOCATIONS.

LIGHTWAVE LGX FIBER ENCLOSURE OVER THE TOP OF

CONNECTORS. THIS IS TYPICAL FOR ALL FIBER DROP

THE DOUBLE GANG BOX WITH SINGLE GANG MUD RING

1. PROVIDE CABLE QUANTITY SHOWN UNLESS NOTED OTHERWISE BY NUMBER / LETTER MODIFIER ADJACENT TO SYMBOL. A "(0)" ADJACENT TO SYMBOL INDICATES DEVICE PROVIDED FOR ROUGH-IN ONLY. PROVIDE A BLANK COVER PLATE WITH NO CABLING. EXAMPLE: (3) = THREE CABLES (2) = TWO CABLES

2. COORDINATE WITH A/V CONTRACTOR. 3. COORDINATE WITH SECURITY CONTRACTOR.

4. UNLESS NOTED OTHERWISE ON PLANS. 5. VERIFY CABLE COLOR CODING WITH ENGINEER AND OWNER DURING SUBMITTAL PROCES AND PRIOR TO PROCUREMENT OF ANY MATERIALS.

PLAN NOTES:(#)

- 1 48-RU, BLACK, 2-POST TELECOMMUNICATIONS RACK WITH 6" DUAL-SIDED (FRONT/BACK) VERTICAL CABLE MANAGER.
- 2 PROVIDE BLACK LADDER TYPE CABLE RUNWAY 16" WIDE. CABLE TRAY SHALL BE MOUNTED 12" ABOVE THE EQUIPMENT RACKS UTILIZING RACK STAND-OFF KITS. PROVIDE RADIUS DROP-OUT KITS AT RACK VERTICAL CABLE MANAGER LOCATION. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES AS NEEDED FOR A COMPLETE SYSTEM.
- (3) LEGRAND TV ROUGH-IN BOX FURNISHED BY ELECTRICAL CONTRACTOR, UTILIZE LOW VOLTAGE SECTION FOR ANY COMMUNICATION CABLING
- $\overline{\langle 4 \rangle}$ TYPICAL DATA OUTLET WITH (2) CAT-6 DROPS AND KEYSTONES. ALL POUGH-IN BOXES AND CONDUIT TO ABOVE CEILING BY E/C.
- 5 TYPICAL WHITE NOISE MUSAK CEILING SPEAKER. REFER TO RISER DIAGRAM AND ALL CABLING WORK.
- 6 ACCESS CONTROL SYSTEM CONTROL PANEL. POWER (120V) FURNISHED BY E/C. REFER TO DOOR WIRING DIAGRAMS.
- 7 TYPICAL POE CAMERA FURNISHED BY OWNER SECURITY CONTRACTOR. ALL CAT-6 WIRING INSTALLED BY TELECOMMUNICATIONS CONTRACTOR. COIL 6 FEET OF CABLING AT ROUGH-IN LOCATION.
- $\langle 8 \rangle$ FLOOR BOX PROVIDED BY ELECTRICAL CONTRACTOR. (9) PROVIDE CAT-6 CABLING COILED ABOVE CEILING FOR CONTRACTOR
- FURNISHED CEILING MOUNTED WIRELESS ACCESS POINT (BLACK/WHITE). $\langle 10 \rangle$ WALL MOUNTED CABINET FOR PA SPEAKERS. REFER TO RISER DIAGRAM.
- TYPICAL ACCESS CONTROL DOOR. INCLUDE ROUGH-IN AND WIRING TO ELECTRIC STRIKE, REQUEST TO EXIT, DOOR CONTACTS, CONTROLLER.
- $\langle 12 \rangle$ TELECOM GROUND BAR MOUNTED ON 3/4" TYPE X PLYWOOD. $\langle 13 \rangle$ INSTALL WIREMOLD EXPASS PASS-THRU BOX PER DETAIL (CAT-6).
- ROUTE 2" CONDUIT FOR ASOS/ANTENNAE EQUIPMENT ON WALL UP TO SATELLITE MOUNT ON ROOF AND SECOND STORY WALL (2 LOCATIONS). REFER TO INSTALLATION DETAIL ON ROOF.
- (15) 1.5" CONDUIT FROM HANGAR II FOR PULLING OF 6-STRAND MULTI-MODE FIBER FROM HANGAR NETWORK. OWNER SHALL COORDINATE WORK WITH OWNER IT GROUP. FURNISH PULL-WIRE, INSTALL QUAZITE PULL-BOXES AS REQUIRED PER SITE PLAN.
- (16) SHUNT TRIP TO BE PROVIDED INTEGRAL TO EACH ELEVATOR POWER MODULE, UPON ACTIVATION OF HEAT DETECTORS INSTALLED IN THE ELEVATOR SHAFT AND MACHINE ROOM, POWER TO ELEVATOR SHALL BE DISABLED. SPECIFIED CONTACT RATING IS 120V FOR SIGNAL FROM FA SYSTEM. VERIFY EXACT REQUIREMENTS WITH FAC.

17) PROVIDE FIRE ALARM CONTROL MODULE INTEGRAL TO ELEVATOR POWER MODULE AND WIRE TO FIRE ALARM SYSTEM SUCH THAT CONTROL VOLTAGE IS MONITORED FOR ELEVATOR EMERGENCY OPERATION. LOSS OF VOLTAGE SHALL PRODUCE A TROUBLE ALERT AT THE FIRE ALARM PANEL.

 $\langle 18 \rangle$ ELEVATOR POWER MODULE "PM1".

- PROVIDE FIRE ALARM MODULES TO PROVIDE PRIMARY FLOOR RECALL, ALTERNATE FLOOR RECALL AND "FIREMAN'S HAT" INDICATION AT THE ELEVATOR CONTROLLER. VERIFY ALL WIRING REQUIREMENTS WITH THE FIRE ALARM MANUFACTURER AND ELEVATOR EQUIPMENT SUPPLIER. LOCATE IN ELEVATOR CONTROL ROOM.
- (20) INSTALL HEAT DETECTOR AT HOISTWAY CEILING. ACTIVATION OF HEAT DETECTOR SHALL CAUSE CLOSURE OF A 120V CONTACT AT THE FACE FOR SHUNT TRIP OF THE ELEVATOR POWER MODULE. COORDINATE SPECIFIC REQUIREMENTS WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
- $\langle 21 \rangle$ ROUTE DEDICATED CAT-6 CABLING TO ELEVATOR CONTROL PANEL. COORDINATE WITH EQUIPMENT MANUFACTURER FOR INSTALLATION AND/OR EXTENSION (CAT 6) CABLE BEYOND CONTROL PANEL.

GENERAL NOTES:

- A. HORIZONTAL CABLING FOR SECURITY CAMERAS AND/OR OTHER SECURITY EQUIPMENT SHALL BE WIRED TO TELECO RACK.
- B. REFER TO OVERALL FLOOR PLANS FOR CABLE TRAY ROUTING. ALL TRAY INSTALLED BY E/C.
- C. COORDINATE ALL DOOR HARDWARE ROUGH-IN REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
- D. COORDINATE ROUGH-IN REQUIREMENTS WITH ALL SECURITY CAMERAS WITH ELECTRICAL CONTRACTOR.



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LEES SUMMIT MUNICIPAL AIRPORT

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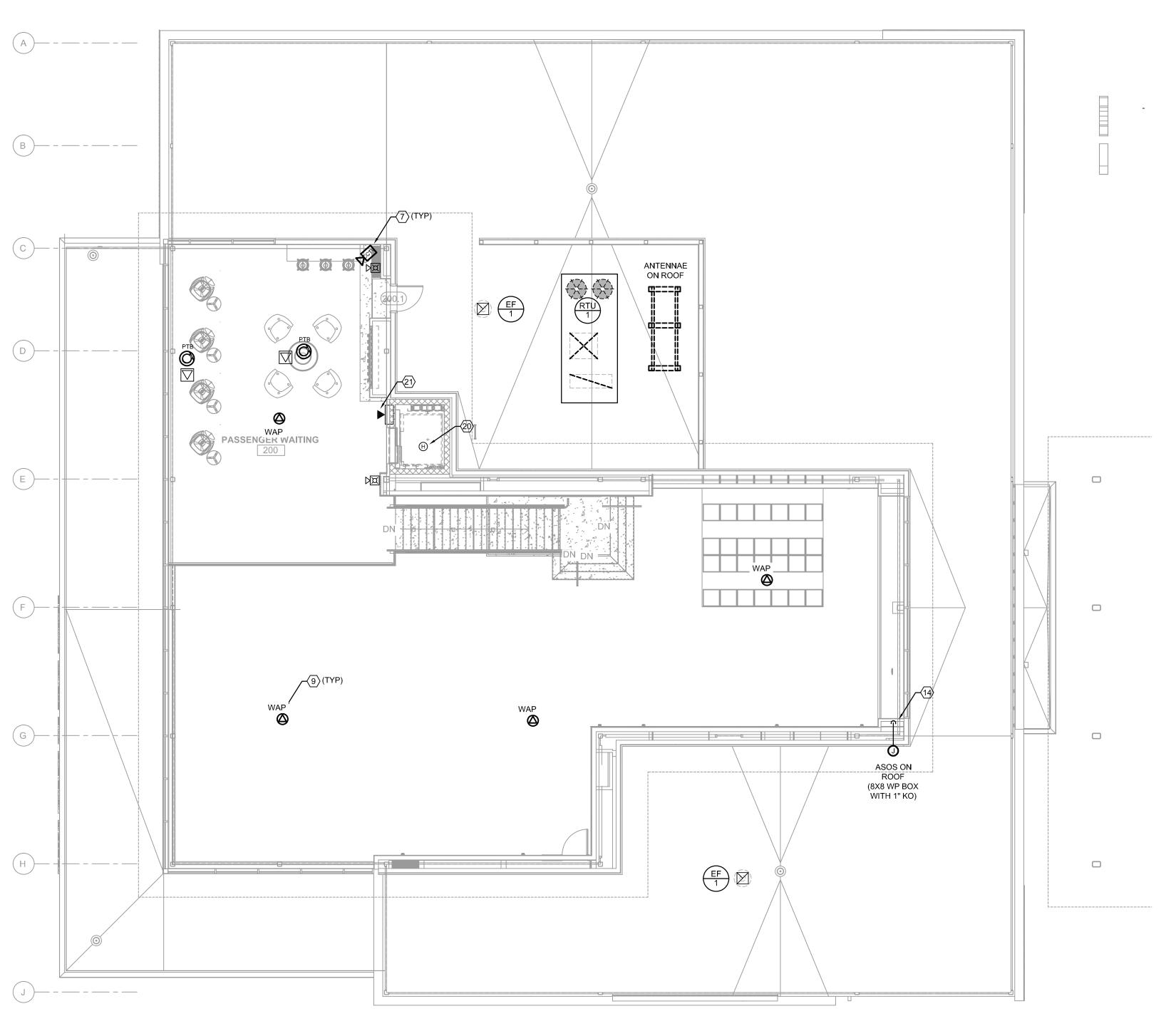
SHEET TITLE SPECIAL

> E-120 SHEET 93 OF 102

SYSTEMS PLAN

SPECIAL SYSTEMS PLAN - LEVEL 1

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



SPECIAL SYSTEMS PLAN - LEVEL 2

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

STORAGE 12"xX2" BASKET CABLE TRAY (TYP) **RECEPTION / LINE** CIRCULATION (PUBLIC)



2 INSTALL CLASS 2 STRANDED COPPER CONDUCTOR WTIH #17 AWG STRANDS FOR MAIN/BONDING CONDUCTOR THROUGHOUT LIGHTNING PROTECTION SYSTEM. FASTEN TO STRUCTURE EVERY 3'-0" MINIMUM.

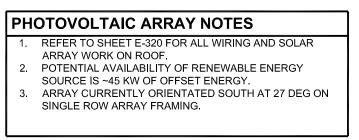
(3) ROUTE DOWN CONDUCTOR DOWN THROUGH BUILDING AND CAD WELD TO A 10'X3/4" COPPER CLAD STEEL GROUND ROD AT THE BASE OF THE BUILDING. INSTALL TEST STATION PER DETAIL. FASTEN THE CONDUCTOR SECURELY TO STRUCTURE AT EVERY 3'-0" THROUGHOUT. AT FOUNDATION COORDINATE DOWN CONDUCTOR INSTALLATION THROUGH FOUNDATION WALL WITH ARCHITECTURAL COLUMN BASE DETAIL AND STRUCTURAL DETAIL. INSTALL 1" SCHEDULE 40 CONDUIT (PER DETAIL E410) THROUGH FOUNDATION SO THAT DOWN CONDUCTOR WILL ROUTE AROUND BASEPLATE AND BE CONCEALED WITHIN COLUMN/FOUNDATION WALL THROUGHOUT.

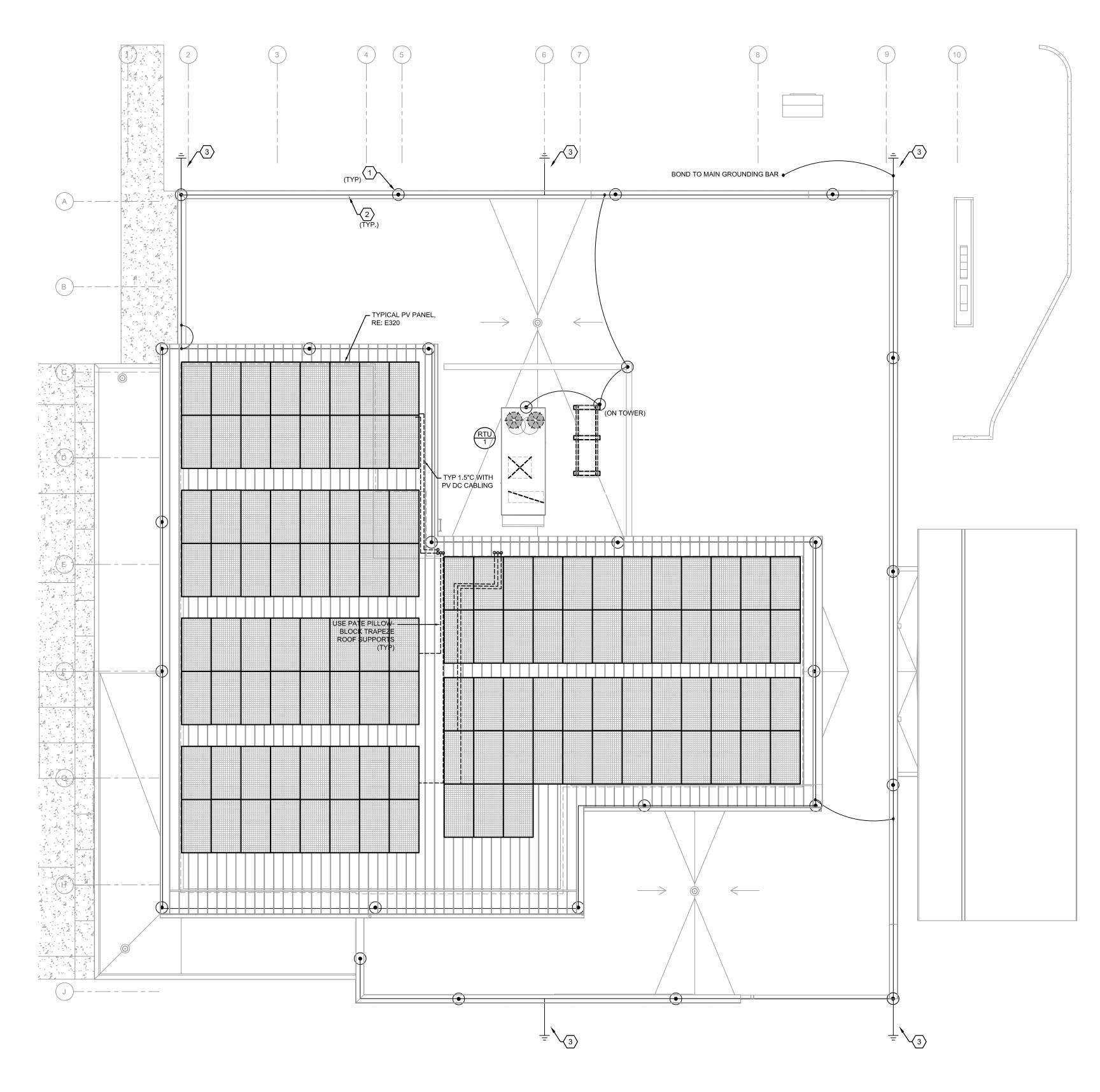
GENERAL NOTES

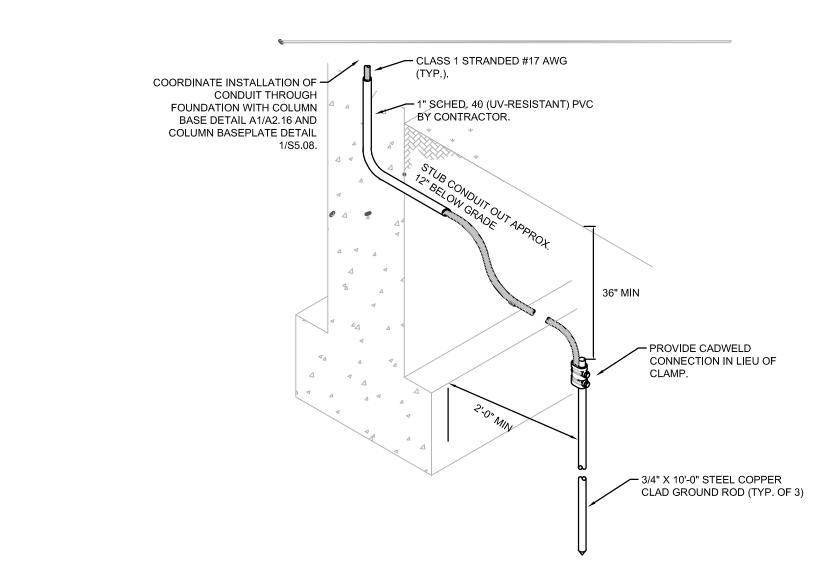
- 1. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 780. SHOP DRAWINGS SHALL BE PROVIDED THAT INCLUDE ALL APPROPRIATE WIRE, TERMINALS, CONNECTION INFORMATION, DETAILED DIMENSIONS OF ALL
- EQUIPMENT, ETC. 2. LIGHTNING PROTECTION SYSTEM GROUNDING SHALL BE TIED INTO ELECTRICAL/TELEPHONE SERVICE GROUNDING SYSTEMS.
 SIZE OF CONDUCTOR FOR INTERCONNECTION SHALL BE THE
- 3. LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO ALL STRUCTURAL, ARCHITECTURAL, ETC., METALLIC EQUIPMENT THAT IS A PART OF THE STRUCTURE.

SAME AS THE MAIN-SIZE LIGHTNING CONDUCTORS.

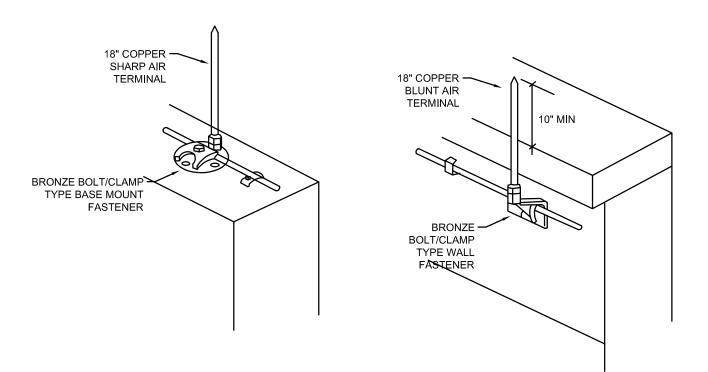
- 4. PROVIDE ALL NECESSARY BASES AND/OR FASTENERS TO INSTALL LIGHTNING PROTECTION SYSTEM AS INDICATED.
 REFERENCE DETAILS FOR FURTHER INFORMATION.
- 5. FOR SOLAR ARRAY, UTILIZE STANDING SEAM CLIPS AND BRACKETING FOR ALL ARRAYS. MINIMUM STAND-OFF FROM ROOF SHALL BE 6".
- 6. FOR CONDUITS DOWN THRU UPPER ROOF OVERHANG, UTILIZE PASS-THRU BOOTS AND SLEEVES FOR CONDUITS. ALL PENETRATIONS SHALL BE WEATHERTIGHT, USE LB FITTINGS







5 LIGHTNING PROTECTION GROUND ROD DETAIL SCALE: NTS



4 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: NTS

DETAIL NOTES

TYPICAL BODIES OF CONDUCTANCE AS NOTED BELOW. USE FULL SIZE CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.

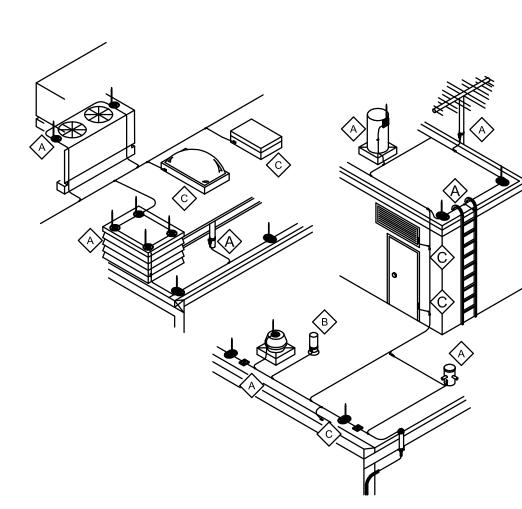
B (PLUMBING STACK) REQUIRES BONDING WITH MAIN SIZE CABLE ONLY IF WITHIN 6'-0" (1,828mm) OF LIGHTNING PROTECTION SYSTEM.

EXAMPLES. MAKE ALL CONNECTIONS REQUIRED TO MEED CODES AS

NOTED BELOW. ADJUST FITTING TYPE AS REQUIRED TO SUIT FIELD

TYPICAL BODIES OF INDUCTANCE AS NOTED BELOW. USE SECONDARY

SIZE (SMALLER) CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR



3 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: NTS

LIGHTNING PROTECTION ROOF PLAN

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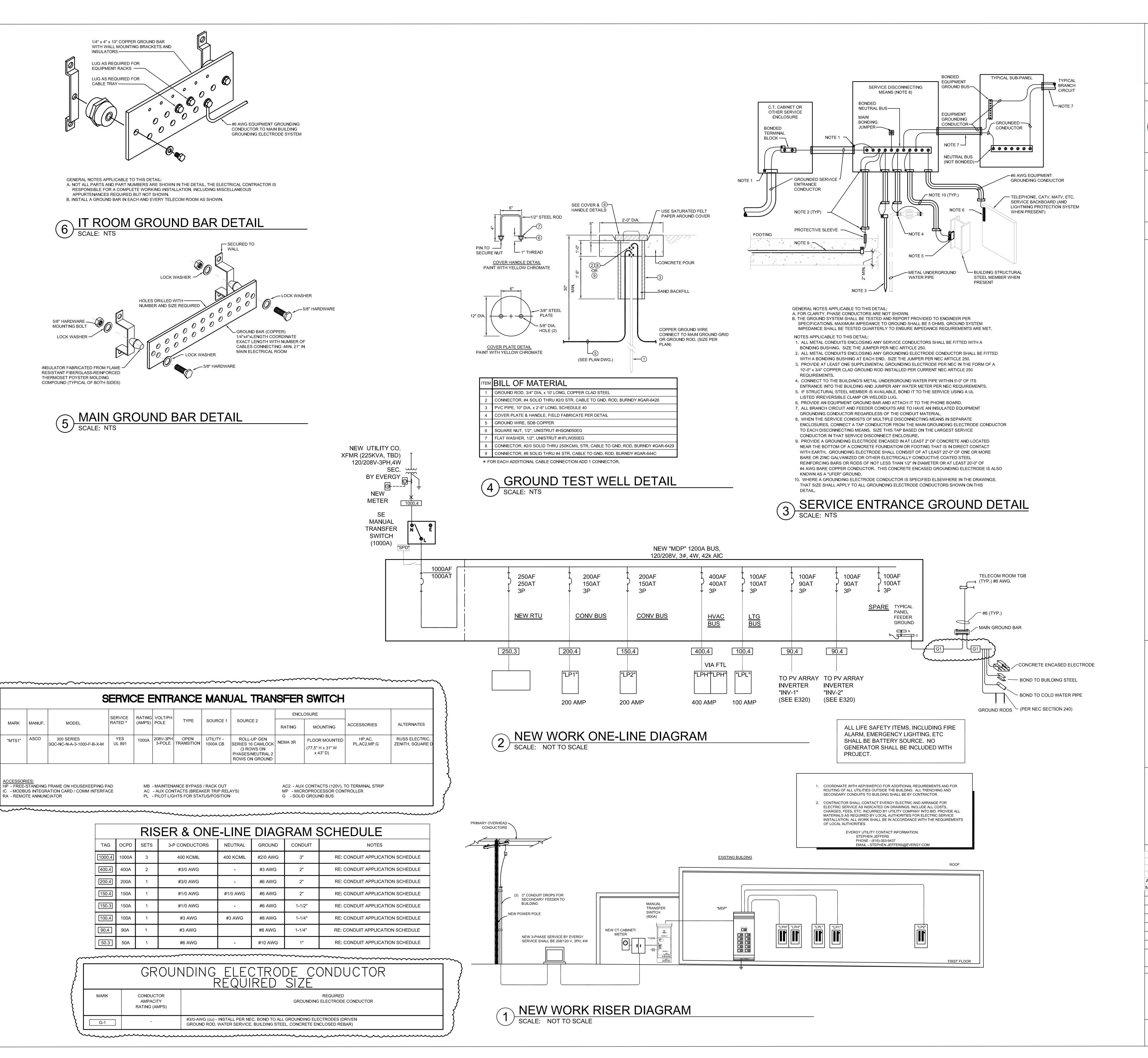
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SHEET TITLE **ROOF LIGHTNING PROTECTION** PLAN

E-130

SHEET 94 OF 102



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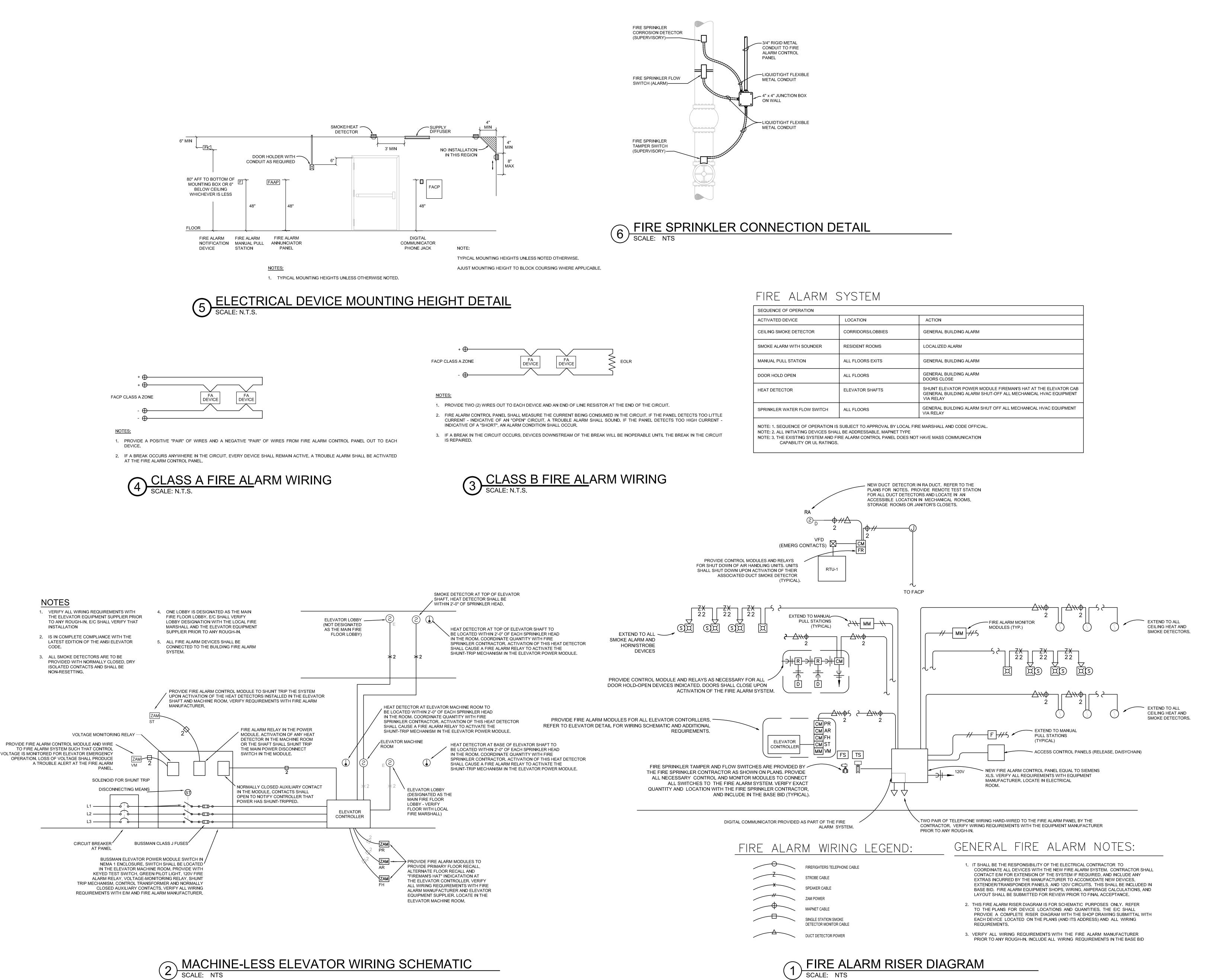
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ELECTRICAL RISERS AND **DETAILS**

E-300 SHEET 95 OF 102



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DIAGRAMS

FIRE ALARM

CORY

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01.03.2025

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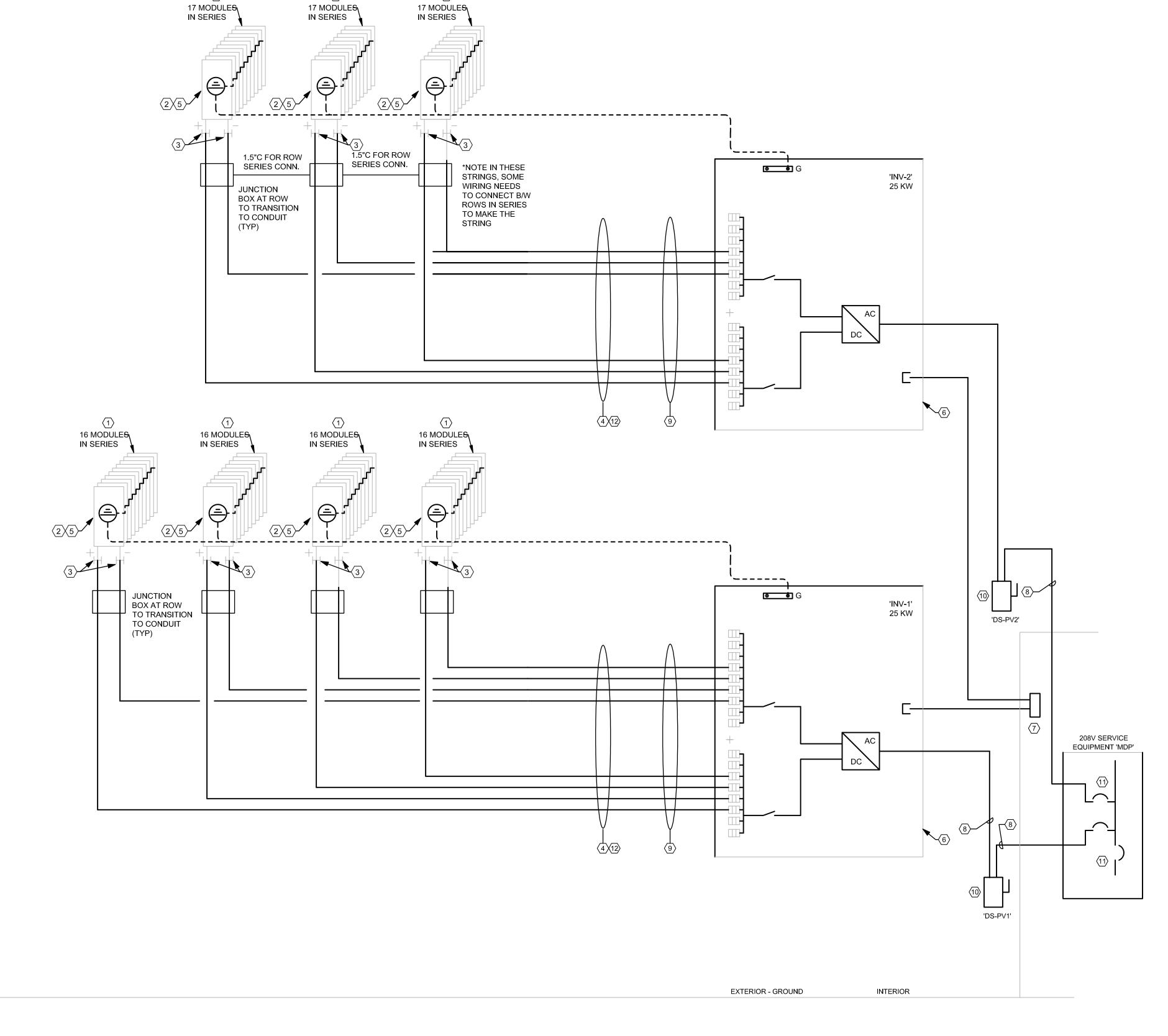
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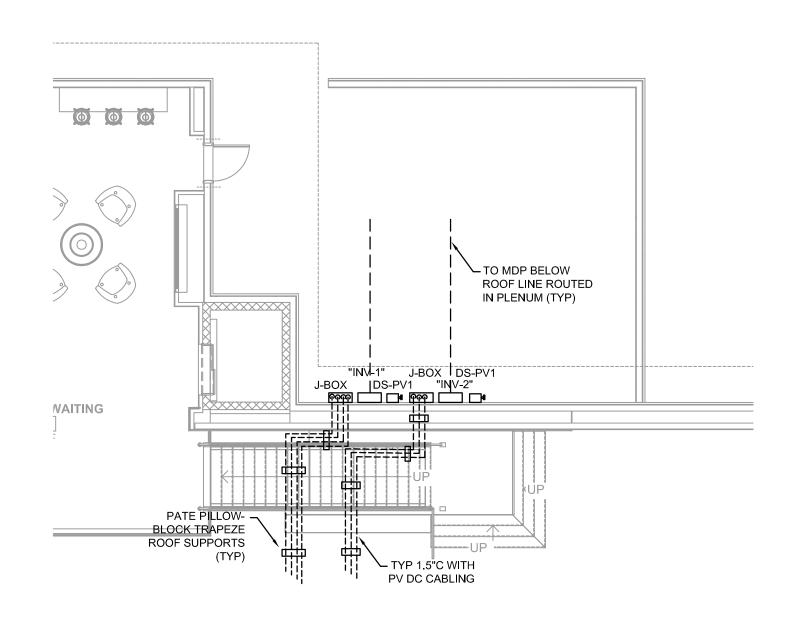
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E-310 SHEET 96 OF 102





1 PHOTOVOLTAIC EQUIPMENT ROOF PLAN SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS. SEE POWER PLANS FOR EQUIPMENT LOCATIONS. SEE ONE-LINE DIAGRAM FOR METERING REQUIREMENTS.

B. TORQUE WIRE TERMINATIONS AND RACKING PER MANUFACTURER RECOMMENDATIONS

- WITH CALIBRATED TORQUE LIMITING DEVICES. C. OBTAIN APPROVAL FROM UTILITY PRIOR TO PARALLELING SOLAR INVERTER WITH GRID.
- FURNISH ELECTRICAL INSPECTOR WITH COPY OF APPROVED UTILITY DISTRIBUTED APPLICATION.
- D. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. E. ALL EQUIPMENT SPECIFIED ON THIS SHEET DENOTES THE BASIS OF DESIGN. REFER TO THE SPECIFICATIONS AND NOTES REGARDING PERFORMANCE CHARACTERISTICS FOR ADDITIONAL APPROVED VENDORS AND REQUIREMENTS.
- F. DIAGRAM IS SCHEMATIC ONLY.

KEYNOTES:

- EACH MODULE HAS A RAPID SHUTDOWN DEVICE MOUNTED TO FRAME, WITH RAPID SHUTDOWN DEVICES SERIES CONNECTED IN 14-MODULE STRINGS.
- 2. PROVIDE MINIMUM 1000V, #10 BLACK PV WIRE (UL4703, 90 DEGREE WET RATING, 150 DEGREE DRY) CONNECTORIZED JUMPERS BETWEEN ROWS VIA RAYTRAY WIRE MANAGEMENT AND PERMANENTLY LABEL JUMPER ENDS WITH POLARITY AND SOURCE 8. 3#3, #3N, #8G-1-1/4"C. AC INVERTER OUTPUT CIRCUIT WITH COMBINED DC GROUND CIRCUIT NUMBER. PERMANENTLY LABEL MODULE LEADS THAT REPRESENT THE POSITIVE AND NEGATIVE OF THE OVERALL STRING. PROVIDE RAYTRAY RPVC SOLAR WIRE MANAGEMENT SYSTEM WITH CAP INSTALLED BETWEEN MODULE ROWS FOR PROTECTION FROM MOVING SNOW AND ICE.
- 3. PROVIDE MINIMUM 1500V, #10 BLACK PV WIRE (UL4703, 90 DEGREE WET RATING, 150 DEGREE DRY) HOME RUN CABLES FROM STRING END TO INVERTER DC CONNECTION BOX WITHOUT SPLICING. LABEL PV SOURCE CIRCUIT NUMBER AND POLARITY AT BOTH 10. 100/3, 600V, NEMA 3R, NON-FUSED, KNIFE-BLADE DISCONNECT FOR OPPD AS

UNDER PROTECTION OF MODULE COVER AT JUNCTION BOX AT END OF ROWS.

- 4. TRANSITION FROM OPEN WIRE TO 1-1/2" EMT CONDUIT WITH WEATHERTIGHT FITTINGS
- 5. SECURE WIRE IN A NEAT AND WORKMANLIKE MANNER, KEEPING EXPOSED CABLE AS 12. UNGROUNDED DC SYSTEM PER NEC 690.12 AND 690.35. UTILIZE #10 PV WIRE LISTED HIGH OFF OF ROOF AS POSSIBLE AND TUCKED INTO THE INNER PORTION OF MODULE FRAME WHERE POSSIBLE. USE STAINLESS STEEL HEYCO CABLE CLIPS ATTACHED TO MODULE FRAMES AND/OR RACKING COMPONENTS AT INTERVALS THAT KEEP WIRE SECURED WITH MINIMAL STRAIN THAT COULD RESULT IN CABLE PULLING FROM CLIP.
- 6. CPS SCA25KTL-DO/US-208, 25KW, 208/3ph, NEMA 4X INVERTER OR EQUAL WITH INTEGRAL DC DISCONNECTING MEANS, DC ARC-FAULT CIRCUIT PROTECTION, AND RAPID SHUTDOWN SUSPEC DC POWERLINE SIGNALLING INITIATED BY LOSS OF AC CONNECTION VOLTAGE. VERIFY OPERATION OF RAPID SHUTDOWN UPON SYSTEM BECOMING OPERABLE. PROVIDE WITH 20A PV STRING FUSING

- 1. TRINA SOLAR TSM-DE18M OR EQUAL SOLAR MODULES UL LISTED FOR 1500VDC USE. 7. PROVIDE A 3/4" CONDUIT AND CAT-6 DATA CABLE TO SOLAR INVERTER. COORDINATE WITH SOLAR CONTRACTOR FOR TERMINATION REQUIREMENTS. WEB-BASED MONITORING ACCESS FOR INVERTER SHALL BE MADE AVAILABLE TO OWNER AND ENGINEER. COORDINATE WITH OWNER'S IT DEPARTMENT FOR NETWORK CONNECTION REQUIREMENTS.
 - ELECTRODE CONDUCTOR (GEC) AND AC EQUIPMENT GROUNDING CONDUCTOR (EGC) PER NEC 690.47(B).
 - 9. INCLUDE A #6 EQUIPMENT GROUNDING CONDUCTOR FOR ARRAY GROUNDING, SIZED PER NEC 690.45. CONNECT TO AEROCOMPACT RACKING PER MANUFACTURER UL 2703 CERTIFIED METHOD.
 - REDUNDANT GRID ISOLATION FEATURE. PROVIDE WITH NEUTRAL TERMINATION (PROVISION FOR UTILITY TO GROUND). DISCONNECT SHALL BE LOCKABLE.
 - 11. CONNECT TO BREAKER IN MDP AS SHOWN ON ONE-LINE DIAGRAM. FOR A MINIMUM OF 1000V.

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PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt

DESIGNED BY: CMW DRAWN BY: DM CHECKED BY: WAI

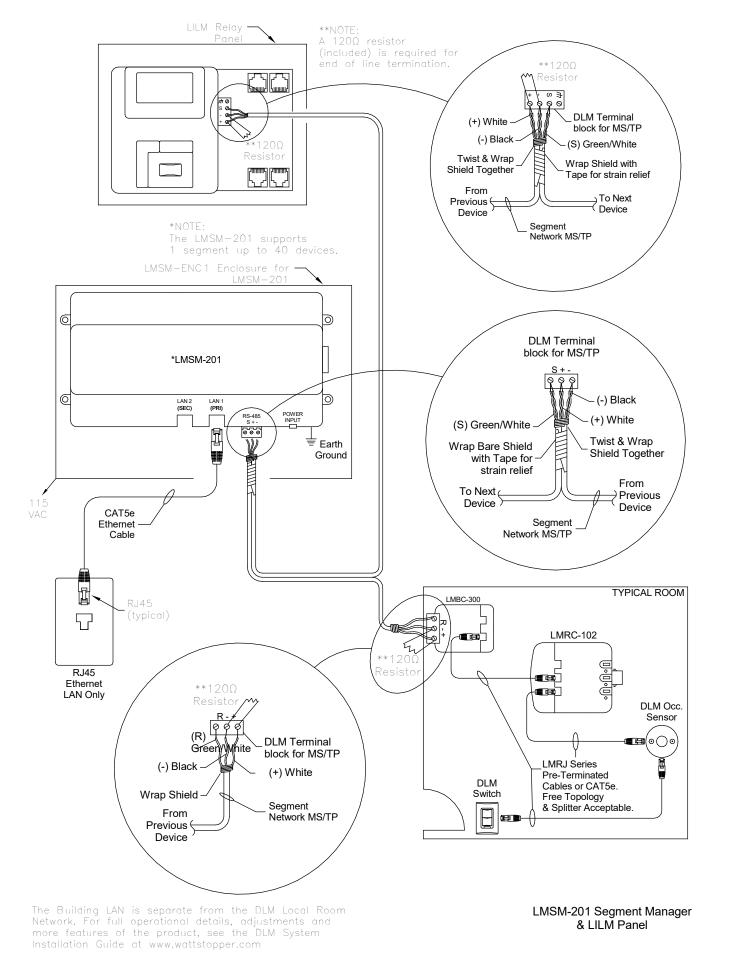
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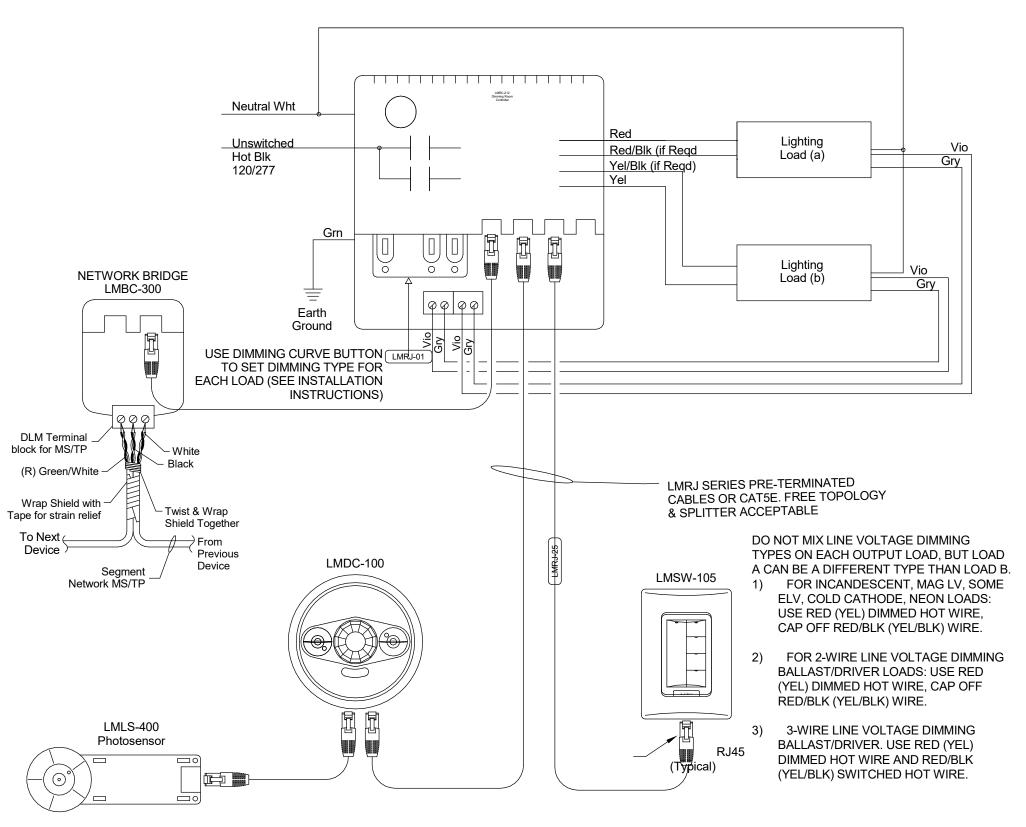
SHEET TITLE

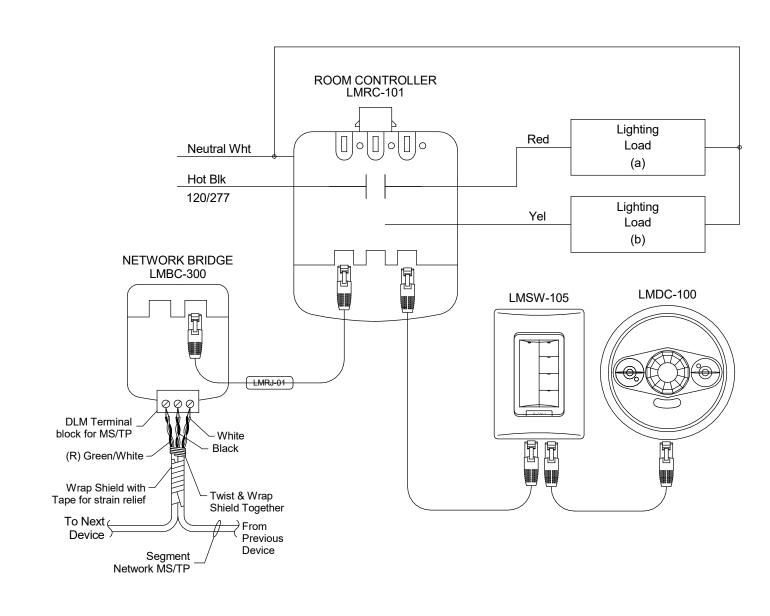
PV ARRAY DIAGRAMS

E-320 SHEET 96 OF 102

1 PHOTOVOLTAIC SYSTEM RISER DIAGRAM
SCALE: NTS



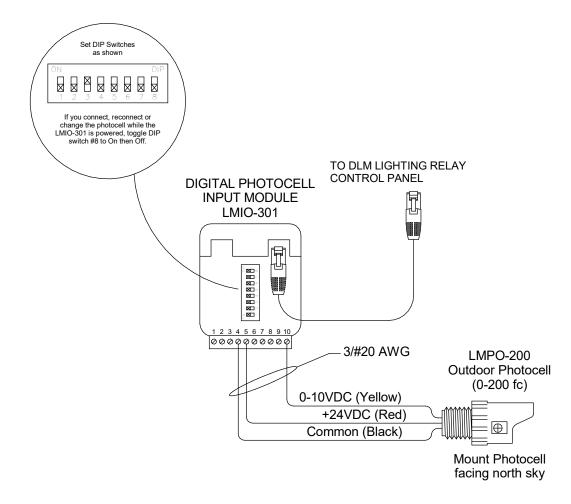




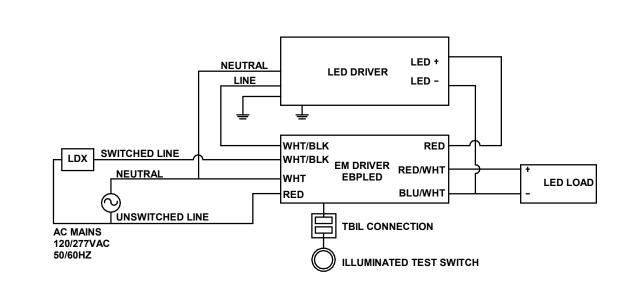
DLM LIGHTING CONTROL WIRING DIAGRAM



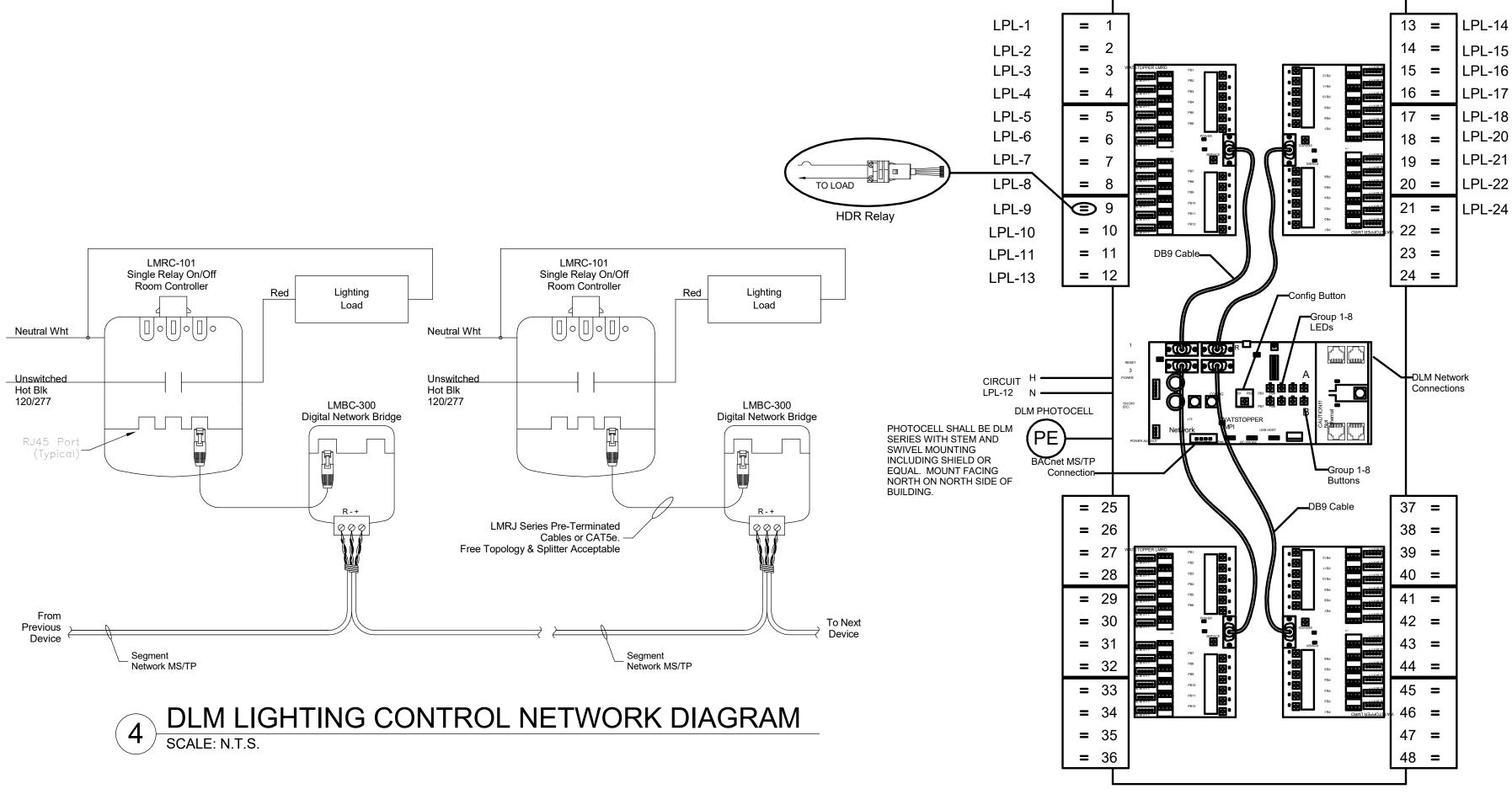




5 DLM PHOTOCELL WIRING DIAGRAM SCALE: N.T.S.



6 EMERGENCY BATTERY WIRING DIAGRAM SCALE: N.T.S.



3 DLM LIGHTING CONTROL PANEL SCALE: N.T.S.



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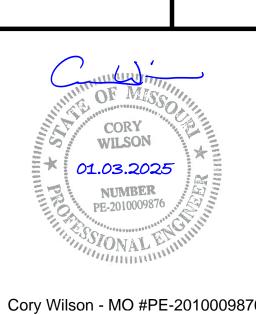


TERMINAL 17932172

GENERAL AVIATION CITY PORJECT NO.

1701 WALNUT STREET, SUITE 300

KANSAS CITY, MO 64108



Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT

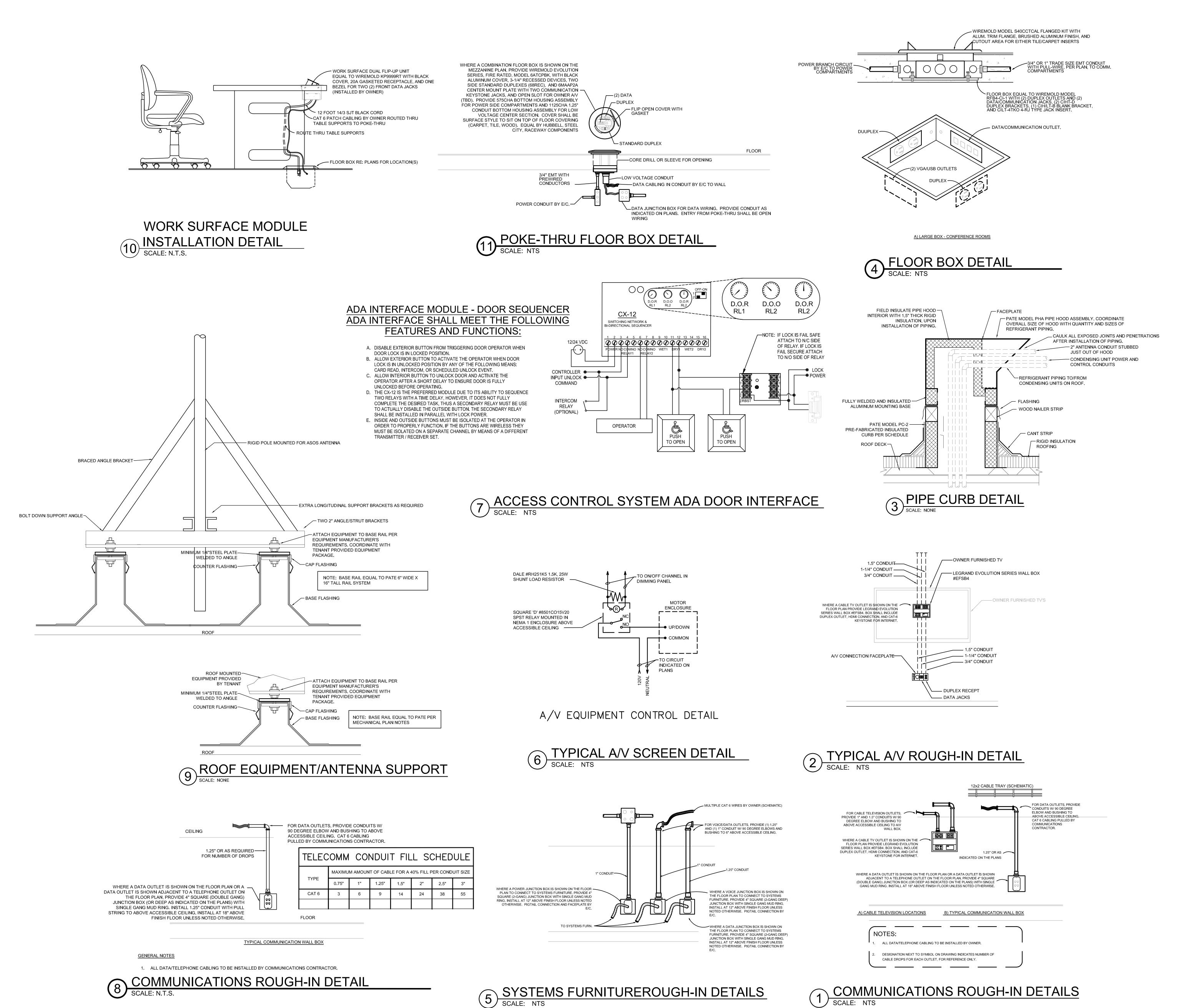
LEES SUMMIT. MO

MARK	DATE	DESCRIPTION
PRO	JECT NO:	2403
CAD	DWG FILE	: Lee's Summit - Hangar 2.rvt
DESI	GNED BY:	SH
DRAV	WN BY:	ОН

CHECKED BY: AF APPROVED BY: TWD COPYRIGHT 2023

ELECTRICAL DETAILS

E-400



CMT

1627 MAIN STREET, SUITE 600

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KANSAS CITY, MO 64108

1701 WALNUT STREET, SUITE 300

CORY WILSON 01.03.2025 NUMBER PE-2010009876

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MARK DATE DESCRIPTION

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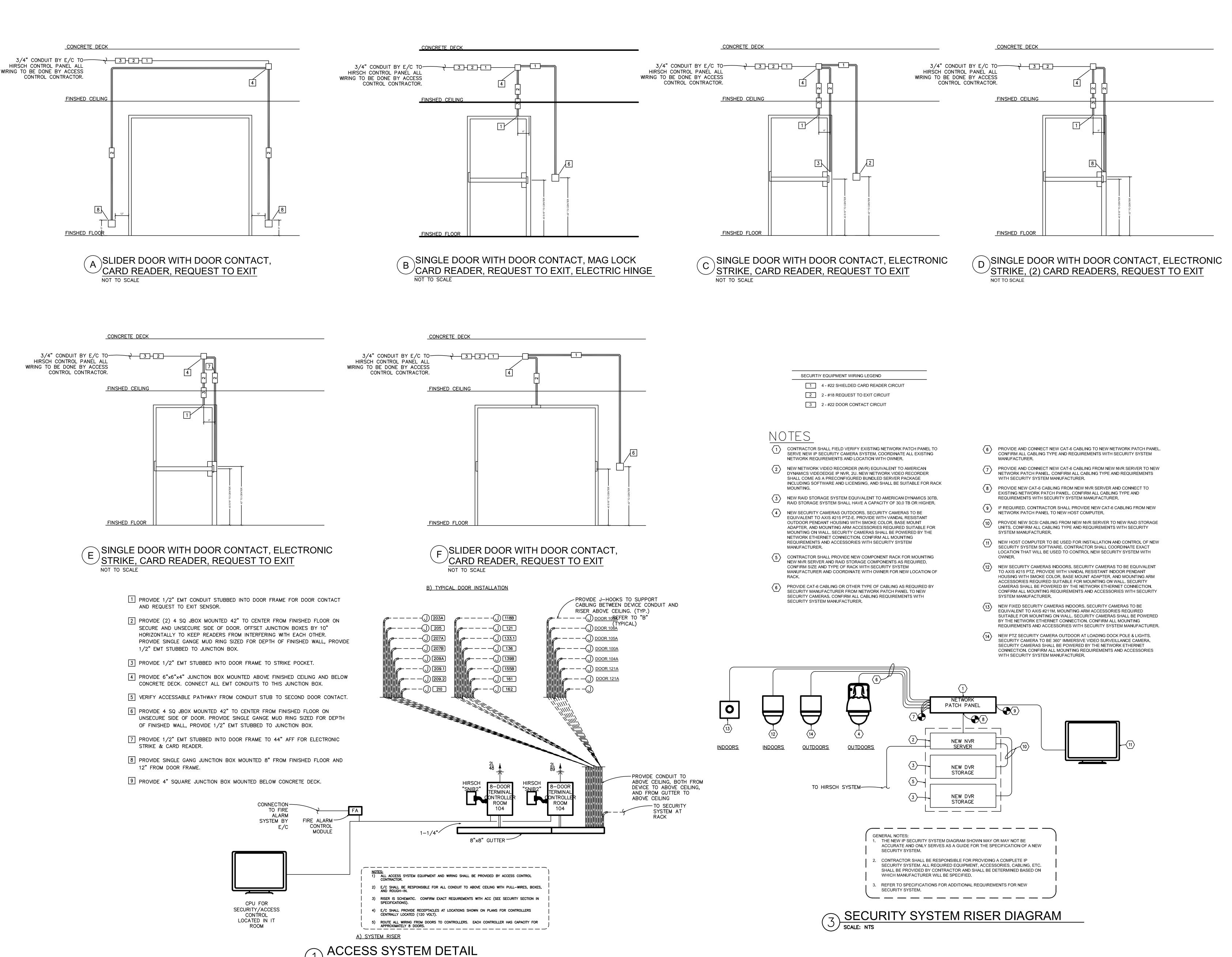
DESIGNED BY: CMW

SHEET TITLE **ELECTRICAL**

DETAILS

E-410

SHEET 98 OF 102



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CORY WILSON 01.03.2025 NUMBER PE-2010009876

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LEES SUMMIT, MO

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> SPECIAL SYSTEMS **DETAILS**

> > E-420

SHEET 99 OF 102

TYPE	MOUNTING	TYPE	MANUFACTURER MODEL NO.	COVERAGE	COLOR	NOT				
LC1	STRUCTURE (ABOVE ACCESSIBLE CEILING WHERE CEILING EXISTS)	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) PLENUM RATED CONTROLLER WITH LINE VOLTAGE RELAY(S) AND ON/OFF POWER SUPPLY COMPONENT OF DIGITAL LIGHTING MANAGEMENT SYSTEM	WATTSTOPPER LMRC-102	PER ROOM	N/A	1				
		CONNECT TO COMPONENTS WITH CAT5E CABLES WITH RJ45 CONNECTORS								
LDX	STRUCTURE (ABOVE ACCESSIBLE CEILING WHERE CEILING EXISTS)	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) PLENUM RATED CONTROLLER WITH LINE	WATTSTOPPER LD1 = LMRC-211	PER ROOM	N/A	1				
	WHERE CEILING EXISTS)	VOLTAGE RELAY(S) AND ON/OFF/0-10V DIMMING POWER SUPPLY COMPONENT OF DIGITAL LIGHTING MANAGEMENT SYSTEM CONNECT TO COMPONENTS WITH CAT5E CABLES WITH RJ45 CONNECTORS PROVIDE 0-10V CONTROL SIGNAL TO DIMMABLE FIXTURES.	LD2 = LMRC-212 LD3 = LMRC-213							
S ₂	WALL	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM)	WATTSTOPPER	PER ROOM	GREY	2				
		LOW VOLTAGE PUSHBUTTON SWITCH TWO BUTTONS AS FOLLOWS: "OFF", "ON"	LMSW-102							
S ₃	WALL	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH THREE BUTTONS AS FOLLOWS:								
		"OFF", "1", "2"								
S ₄	WALL	DIGITAL LIGHTING MANGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH FOUR BUTTONS AS FOLLOWS: "OFF", "1", "2", "3"	LMSW-104	PER ROOM / ZONE	GREY	2,				
S _{4D}	WALL	DIGITAL LIGHTING MANGEMENT SYSTEM (DLM)	WATTSTOPPER	PER ROOM	GREY	2				
		LOW VOLTAGE PUSHBUTTON SWITCH FIVE BUTTONS AS FOLLOWS: "OFF", "1", "2", "3", AND DIMMING.	LMSW-105	/ ZONE						
OS	CEILING	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED DIGITAL CEILING SENSOR BY WATTSTOPPER	WATTSTOPPER CEILING MOUNT: LMDC-100 CORNER MOUNT: LMDX-100 GYMNASIUM: HBL4 LENS WITH WC	1000 SQFT	WHITE	3				
S HIGHBAY	CEILING	DIGITAL PASSIVE INFRARED CEILING SENSOR WITH 360 DEG PATTERN COMPONENT OF DIGITAL LIGHTING MANAGEMENT INTEGRATED CONTROL SYSTEM	WATTSTOPPER LMPC-100-5	1000 SQFT	WHITE					
DS	CEILING	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM)	WATTSTOPPER		WHITE	3				
		SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR	LMLS-400							
ELT	WALL MOUNTED	EMERGENCY LIGHTING CONTROL TRANSFER SWITCH	BODINE	PER ROOM OR ZONE	N/A					
		TRANSFERS LIGHTING LOADS TO EMERGENCY POWER SOURCE UPON LOSS OF POWER. BYPASSES LIGHTING CONTROLS ON NORMAL POWER CIRCUIT. UL924. PROVIDE WITH TEST SWITCH ACCESSORY.	GTD OR EQUAL AS							
0	*****		APPROVED	DED BOOM	OPEY					
S _{OS1}	WALL	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH PASSIVE INFRARED	PW-101	PER ROOM	GREY	3				
S _{OS2}	WALL	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH PASSIVE INFRARED, DUAL RELAY	WATTSTOPPER PW-200	PER ROOM	GREY					
RP1	WALL MOUNTED	ARCHITECURAL DIMMING PANEL, BACNET ENABLED 16 ZONES 0-10VOLT DIMMING / 16 HIGH-VOLTAGE RELAYS RP1 WITH IC-DIN-II-LITE RP1 WITH SERIAL DATA INTERFACE FOR COMMUNICATION TO DLM CONTROLLERS	WATTSTOPPER LCAP44A A-6 LMDI-100 BACNET-IP-IC IC-DIN-II-LITE	EXTERIOR BUILDING LIGHTING AND INTERIOR COMMON SPACES	N/A					
RP2E	WALL MOUNTED	ARCHITECURAL DIMMING PANEL 12 ZONES 0-10VOLT DIMMING / 12 HIGH-VOLTAGE RELAYS RP2E WITH (3) EMERGENCY LIGHTING RELAYS RP2E WITH (3) EMERGENCY LIGHTING TEST SWITCH NETWORK TO RP1 FOR CONTROL	LVOS-0-10-PWM (4) WATTSTOPPER LCAP44A A-6 LMDI-100 VA-RRU-1-277(3) VA-EPC-DFS-277V (3)	EXTERIOR BUILDING LIGHTING AND INTERIOR COMMON SPACES	N/A	SA (
PC	EXTERIOR WALL	DIGITAL PHOTO CELL INPUT MODULE AND EXTERIOR PHOTOCELL	LVOS-0-10-PWM (3) WATTSTOPPER LMIO-301 LMPO-200	EXTERIOR BUILDING LIGHTING	N/A					

2) WALL STATIONS SHALL INCLUDE ENGRAVING TO STATE BUTTON FUNCTION. REFER TO OWNER FOR ENGRAVING PREFERENCES. 3) APPROVED LIGHTING CONTROL EQUALS INCLUDE: ACUITY BRANDS ILIGHT, CRESTRON SPACE BUILDER, HUBBELL NX, CRESTRON

ELEVATOR FUSE REQUIREMENTS SHALL BE VERIFIED WITH THE ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN OR ORDER OF SWITCHES.

MARK -	LOAD		MANUFACTURER	SWI	тсн	F	USE	ENCLOSURE	ACCESSORIES	
IVIARK	EQUIPMENT SERVED	VOLTS	MODEL	AMP	POLE	AMP	TYPE	NEMA TYPE	ACCESSORIES	
"PM1"	ELEVATOR P1	208	BUSSMAN-#PS1T20KRBF1	100	3	100	AJT	1	CT,FR,K,RP,MR,VMR AUX	
HD - HE SN - SC	TIONS: ENERAL DUTY EAVY DUTY DLID NEUTRAL INTROL POWER TRANSFORMER	SAFETY INTERFACE RELAY O TEST SWITCH PILOT LIGHT HANICAL INTERLOCK AUXILIA	ARY RELA	F	MONI	E ALARM VOI ΓORING REL⁄ ILIARY ALAR	AY			

LIGH	HTING FIXTU	JRE SCHEDULE							
				LAN	ИP				
R	MANUFACTURER	MODEL	DESCRIPTION	TYPE	CCT	VA	VOLTAGE	DIMMING	COMMENTS
Α	COOPER LIGHTING	22SR-LD2-59-C-UNV-L835-CD1-U	RECESSED 2X2 DIRECT/INDIRECT TROFFER	LED	3500 K	50	UNV	0-10V	
AE	COOPER LIGHTING	22SR-LD2-59-C-UNV-EL7W-L835-CD1-U+E1	RECESSED 2X2 DIRECT/INDIRECT TROFFER	LED	3500 K	50	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
В	COOPER LIGHTING	LDSQ4D-35B-90-35-D010	4" SQUARE DOWNLIGHT	LED	3500 K	33	UNV	0-10V	
BE	COOPER LIGHTING	LDSQ4D-35B-90-35-D010-EM7	4" SQUARE DOWNLIGHT	LED	3500 K	33	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
С	METALUX	4SNX-48SL-SLW-UNV-L835-CD-1	LED STRIPLIGHT	LED	3500 K	33	UNV	0-10V	
D	BUZZISPACE	BUZZIJET XL	DECORATIVE PENDANT	LED	3500 K	70	120 V	0-10V	
D2	BUZZISPACE	BUZZIJET XXL	DECORATIVE PENDANT	LED	3500 K	70	UNV	0-10V	
Е	EUREKA	4256-24-LED-25-80-120V-DV	DECORATIVE PENDANT	LED	3500 K	33	120 V	0-10V	
EME	<varies></varies>	<varies></varies>	<varies></varies>	LED	4000 K	45	<varies></varies>	<varies></varies>	<varies></varies>
EX1	COOPER LIGHTING	LPX SERIES EDGE-LIT	EXIT SIGN	LED	3500 K	5	UNV	N/A	
F	EUREKA	3409-LED.4-35-90-120-DV-BLK-CFR	SURFACE MOUNT PENDANT	LED	3500 K	5	120 V	0-10V	
G	EUREKA	3450-LED-35-90-120-DV-BLK	SURFACE MOUNT PENDANT	LED	3500 K	5	120 V	0-10V	
Н	AXIS LIGHTING	B2SQSLED-1000-80-35-SO-5-DMLED-BLK-UNV-DP-1	SURFACE MOUNT LINEAR FIXTURE	LED	3500 K	43	UNV	0-10V	
HE	AXIS LIGHTING	B2SQSLED-1000-80-35-SO-5-DMLED-BLK-UNV-DP+E1	SURFACE MOUNT LINEAR FIXTURE	LED	3500 K	43	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
- 1	AXIS LIGHTING	GPSLED-NL-300-80-3500-FL-BLK-UNV-DP	SURFACE MOUNT WALL GRAZE FIXTURE	LED	3500 K	40	UNV	0-10V	
J	COOPER LIGHTING	HCSQ4-40-D010-HM4-3040-835	EXTERIOR DOWN LIGHT	LED	4000 K	43	120 V	0-10V	WET LOCATION LISTED
JE	COOPER LIGHTING	HCSQ4-40-D010-EM06-HM4-3040-835	EXTERIOR DOWN LIGHT	LED	4000 K	43	UNV	0-10V	WET LOCATION LISTED, FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
K	BEGA	B50539-K35-B13183	DECORATIVE PENDANT	LED	3500 K	20	120 V	0-10V	
L	BUZZISPACE	BUZZIPROP LED PENDANT LIGHT	DECORATIVE PENDANT	LED	3000 K	20	120 V	N/A	
М	COOPER LIGHTING	LDSQA2B-20-90-35-D010	2" SQUARE DOWNLIGHT	LED	3500 K	22	UNV	0-10V	
SL1	KIM LIGHTING	PA7R-FT-CH-3-12L-020-47K-44IRB-S20-BLT-UNV	SITE BOLLARD	LED	4000 K	80	UNV	N/A	
SL2	KIM LIGHTING	CY2-45-4K8-2-SP-3-UNV-BLT-F-LFSW	SITE UP/DOWN LIGHT	LED	4000 K	52	UNV	N/A	IP66
SL3	KIM LIGHTING	ALT2-100L160-4K8-3-UNV-ASQ-BLT	SITE LIGHTING POWER POLE	LED	4000 K	160	UNV	0-10V	
SL4	KIM LIGHTING	ALT2-100L160-4K8-4-UNV-ASQ-BLT	SITE LIGHTING POWER POLE	LED	4000 K	160	UNV	0-10V	
T	PURE EDGE	SS2C-24-40K-W	OUTDOOR LED STRIP	LED	4000 K	50	120 V	0-10V	WET LOCATION LISTED

PER SPECIFICATIONS.

PRESENTATION SETTING DIMS LINEAR PENDANT TO 10% AND TURNS OFF DOWNLIGHTS.

SPACE CONTROLS NETWORKED TO RELAY PANEL "RP1" FOR TIME CLOCK FUNCTIONALITY.

OCCUPANCY SENSOR 100% ON. ALL LIGHTS OCCUPANCY SENSOR OFF.

LIGHTING FIXTURE SCHEUDLE NOTES:

1. EQUALS BY LITHONIA, HUBBEL, LSI, ACUITY.

2. DECORATIVE PENDANT EQUAL REQUIRES APPROVAL BY ARCHITECT PRIOR TO SUBMITTAL.

			_	_	_	_	_	_	CO	NTR	ROLS			_		_	_				
	SPACE TYPE / ROOM NAME	LINE VOLT MANUAL SWITCH	LINE VOL WALL OCCUPANCY SWITCH		LOW VOLT DIMMING WALL STATION		ASTRONOMIC TIME CLOCK PERMISSION	MANUAL ON ONLY	OCCUPANCY SENSOR 33% AUTO ON	OCCUPANCY SENSOR 50% AUTO ON	OCCUPANCY SENSOR 100% AUTO ON	BI-LEVEL EXTERIOR SENSOR	OCCUPANCY SENSOR OFF	OPERATING HOURS SCHEDULE	OPERATING HOURS 25% AUTO ON	OPERATING HOURS 33% AUTO ON	OPERATING HOURS 50% AUTO ON	DAYLIGHT SENSOR DIMMING	WIRING DIAGRAM REFERENCE	SEQUENCE OF OPERATIONS	NOTES / OTHER COMMENTS
	EXTERIOR - PARKING					Х						Х								1	BI-LEVEL SENSOR FROM 11 PM T0 5 PM.
	EXTERIOR - BUILDING					х	х													-1	50% LEVEL FROM 11 PM TO 5 AM.
	EXTERIOR - SIGNAGE					х	х													1	
	EXTERIOR - CANOPY					Х	Х			5,										1	
	QUIET/WAITING & PILOT LOUNGE				х					х			х		A a				E400	2	
	PRIVATE OFFICE / WORK ROOM		х				3			х			х							2	
	CONCOURSE				х	i q				х	i q		х	х	х	단		х	E400	3,4,11	
	RECEPTION COUNTER				х					х			х		0	D _e			E400	2,4	
	CAFÉ/VENDING			Х	\$2					х			х	Х	х				E400	2,3,11	
	ENTRY				10_1-					х	Х		х	Х	3_1	х	х		E400	5,11	
	ENTRY STAIRS									х	Х		X	Х		X	X	X	E400	5,6,11	
	CONFERENCE				х					х			х		es - 17				E400	2,7	
	ELECTRICAL / MECHANICAL / IT	×																			
	LARGE STORAGE / JANITOR			Х	8					5	Х		х						E400	8	
	SMALL STORAGE		х								х		х							8	
	VESTIBULES					U.S.				х	х		х	Х		х	х	Х	E400	5,11	
	PUBLIC RESTROOMS				3-02-						Х		х		0	D _e			E400	8	,
	PRIVATE RESTROOMS / JANITOR		х		22					22:	Х		х		3					8	
	MEZZANINE			Х					Х				Х					Х	E400	9	
	LINE SERVICE / LOCKER			Х					х					х		х		х	E400	6,9	
	WORK ROOM / BREAK ROOM			Х						х			Х	Х	9:11		Х		E400	6,10,11	
	CORRIDORS									56	Х			х			Х			5,11	
1	SEQUENCE OF OPERATION TIME CLOCK PERMISSION ON FROM 4 FOR OCCUPANCY SENSOR 50% ON. TASK L	РМ ТС	A 8 C																		
2	OCCUPANCE SENSOR 30 /9 CN. FACILE	JOH	Sivi	AINO	ALC)N O	1 14	JUN	Lov	VIII	4Dy II	- A	FLIC	MUL	-E. ,	ALL	LiGi	110	OCCUPATE.	JI OENOU	KOFF.

TAG	MA	AKE				POWER		cc	MM	AUDIO/	NOTES
NO.	MODEL	COLOR	MANUF	COVER	MODEL	QTY	DEPTH	MODEL	LOCALE	VISUAL	NOTES
FB-1	EVOLUTION RFB4-C1-1	BRUSHED NI BLACK	WIREMOLD	S40CCTCAL	CIHT-D	2	3"	CILT-4TKO -4-RJ	CENTER	AV	CS,LF,CT,LVD

FR - FIRE RATED
CS - CONCELAED SERVICE
LF - LEVELING FEET CT - CARPET/TILE FLANGE KIT, BA FINISH TRIM, CARPET INSERT LVD - LOW VOLTAGE DIVIDER

AV - A/V PLATE CIH/LT-B BLANK INSERT WITH VGA AND HDMI CONNECTIONS (WIRING/JACKS BY CONTRACTOR)

*REFER TO SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZE

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE (where noted on circuit)	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE (where noted on circuit)
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"
						•

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONDUIT APPLICATION SCHEDULE									
APPLICATION	MATERIAL	FITTING TYPE (IF APPLICABLE)	NOTES						
SERVICE ENTRANCE CONDUIT ABOVE GRADE ONLY	RIGID STEEL	-	-						
FEEDERS ABOVE GRADE	EMT	COMPRESSION	-						
ALL BRANCH CIRCUITS FOR LIGHTING AND POWER	EMT	COMPRESSION	-						
ALL HVAC EQUIPMENT, SUPPLY/EXHAUST FANS AND MOTORS	EMT	COMPRESSION	-						
LIGHT FIXTURE WHIPS LIMITED TO 5'-0" IN LENGTH	MC CABLE	-	CU ONLY						
UNDERGROUND TELEPHONE SERVICE	PVC	-	-						
UNDERGROUND CABLE TV / INTERNET	PVC	-	-						
SERVICE ENTRANCE CONDUIT BELOW GRADE WHERE NOT BELOW PAVED AREA	SCH 40 PVC	-	2						
BRANCH CIRCUITS BELOW GRADE	PVC	-	1						
LINE VOLTAGE THERMOSTAT / CONTROL WIRING	EMT	COMPRESSION	-						
T-STAT WIRING OR CONTROL WIRING IN WALLS AND IN AREAS WITHOUT CEILINGS	EMT	COMPRESSION	-						
FIRE ALARM CABLING (POWER-LIMITED, FIRE-PROTECTIVE, SIGNALING CIRCUIT CABLE)	EMT	COMPRESSION	-						
DATA/TELEPHONE CABLING WHERE CEILINGS INSTALLED	OPEN/CABLE TRAY	-	3						
INTERCOM/SECURITY SYSTEM	OPEN	-	3						

TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 50% AND AUTO RAISE TO 100% WHEN OCCUPIED. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO

DAYLIGHT CONTROLS. DIM LIGHTING, LINEARLY, STARTING AT 100% OUTPUT AT 40 FC TO 0% OUTPUT AT 120 FC. EVALUATE ACTUAL LIGHT LEVELS AND CALIBRATE SETTINGS

TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 33% AND AUTO RAISE TO 100% WHEN OCCUPIED. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO

0 TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 50%. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO ON TO 55% WHEN OCCUPIED.

- 1. TRANSITION TO EMT SHALL BE MADE PRIOR TO COMING UP FROM BELOW GRADE
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR PRIMARY SERVICE AND ENCASING IN CONCRETE IF REQUIRED.

EQUIVALENT MANUFACTURERS BY SQUARE D, GE, SIEMENS, EATON

TAG		LOAD			SWITCH			FUSE		ENCLOSURE	NOTES
NO.	EQUIPMENT SERVE	:D	VOLTS	DUTY	AMP	POLE	AMP	POLE	TYPE	NEMA TYPE	NOTES
DS-1	ROOF HEAT PUMP	"CU-1"	208	HD	60	2	1	-	-	NEMA 3R	L,GB
DS-2	ROOF HEAT PUMP	'CU-2"	208	HD	60	2	1	-	-	NEMA 3R	L,GB
DS-3	ROOF HEAT PUMP	'CU-2"	208	HD	60	2		-	-	NEMA 3R	L,GB
<u>AB</u>	BREVIATIONS										

CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



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1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108

WILSON 01.03.2025 PE-2010009876

Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146

01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Hangar 2.rvt DESIGNED BY: SH

DRAWN BY: OH CHECKED BY: AF APPROVED BY: TWD

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ELECTRICAL SCHEDULES

E-500

** = CONDUIT SIZE DOES NOT APPLY TO "MC" CABLE.

	NEL DESIGNATION:	MANII	FACTUR	RFR. 97	QUARE D			VOI TAC	3F: 120/20	8V. 3 PH4	ASE, 4 WIRE	/IN. AIC:	42K
NE	EW "MDP"		TY	/PE: _{I-L}	INE			MAINS:	1000 AM		DIMENSIONS:		1211
		**	MOUNT	NG: SU	RFACE	MTG S	P: 84"		MLO	ر ر ₊	42" WIDE, 8.5" DEE	<u>-</u> P	
CKT NO	LOAD DESCRIPTION	CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE A	B	С		CIRCUIT BREAKER	TYPE	LOAD DESCRI	IPTION	CK ⁻ NO
1	NEW PANEL "LPH"	400	KC	45417	64417			19000	250	KC	NEW 30-TON R	TU	2
	II .	3		41417		60417		19000	3		11		
	11	3		38667			57667	19000	3		11		
3	NEW PANEL "LP1"	150	KC	10800	20000			9200	100	FC	ELEVATOR (20	HP)	4
	11	3		9800		19000		9200	3		11		
	II	3		10200			19400	9200	3		п		
5	NEW PANEL "LP2"	150	KC	11500	19500			8000	100	FC	NEW PANEL "L	_PL"	5
	п	3		10800		18800		8000	3		п		
	п	3		12600			20600	8000	3		п		
7	VAV-15 (15 KW)	60	FC	5000	5000				100	FC	SPARE		
	"	3		5000		5000			3		11		
	"	3		5000			5000		3		11		
7	SPACE	-			-				-		SPACE		
	"	3				-			3		11		
	11	3					-		3		u		
				0.450	100005	100717	400007						
	CEVIATIONS.	CONNECTED			108625	103717	102667	VA	NOTES/	ACCESSO	RIES:		
	CIRCUIT INTERRUPTER	OOLING DIVE			77125	74225	75600	VA	* DIVE	RSIFIED	 LOADS INDICATED HAV IN ACCORDANCE WITH		
	CIRCUIT INTERRUPTER	EATING DIVE		LOAD	79562	74862	75000	VA	NATI	ONAL ELI	ECTRIC CODE.		
HLC	- HANDLE LOCK 'OFF'	PHASE L			663	623	630	AMPS	SHOWN. SERIES RATINGS SHALL BE ALLOWE				
		FUTURE FA				1.25 828		AMPS			R SHALL BE BOLT-ON T ATED TYPED CIRCUIT [•

	FLFCT	$\exists I \cap \Delta I$		SIZIN	IG TABLE
		1			10 I/IDEL
TEM	EQUIPMENT SERVED	LOAD	DIVERSITY	SIZING LOAD	NOTES
	TYPE	VA	217 2. (811)	0.20	
1					
2	RECEPTACLES - GENERAL	33,000	0.65	21,500 VA	FIRST 10KVA + (1/2 * REMAINING LOAD)
3	COMPUTER LOADS - GENERAL	6,000	1.0	6,000 VA	NON-LINEAR LOADS
4	SERVER / LAN ROOM LOADS	6,000	1.0	5,000 VA	NON-LINEAR CONTINOUS LOADS
5	INTERIOR LIGHTING	9,250	1.0	9,250 VA	
6	EXTERIOR LIGHTING	4,000	1.0	4,000 VA	
7	EXHAUST SYSTEMS (GENERAL)	3,128	1.0	3,128 VA	ALL LESS THAN 1.5 HP EACH
8					
9	KITCHEN EQUIPMENT	4,500	0.75	3,475 VA	DIVERSIFIED AT 75% PER NEC
10	ELEVATORS	27,600	1.0	27,600 VA	ONE AT 20 HP
11	LAUNDRY EQUIPMENT	3,800	0.5	3,000 VA	RESIDENTIAL STYLE AT ALL LOCATIONS
12	RTU - 1 @ 30 TONS	67,830	1.0	67,830 VA	VFD CONTROL / STAGED COOLING
13	ELECTRIC HEAT	100,000	0.33	33,000 VA	COOLING GOVERNS
14	VRF SYSTEMS	19,878	1.0	19,878 VA	(2) OUTDOOR UNITS, (7) INDOOR UNITS
15	TEMPERATURE CONTROLS	1,500	1.0	1,500 VA	DDC SYSTEM
16	DOMESTIC WATER BOILERS	1,500	1.0	1,500 VA	YEAR ROUND
17	FIRE ALARM, SECURITY, WHITE NOISE	4,000	1.0	4,000 VA	LOW VOLTAGE SYSTEMS
18	BASEBOARD RADIANT HEATERS	11,500	0.25	2,875 VA	OFF-SEASON DEMAND
19	MISCELLANEOUS LOADS	7,500	0.5	3,750 VA	MISC EQUIPMENT, ASOS TOWER
20					
21					
			TOTAL	217,056 VA	608 AMPS AT 120/208-3PH VOLT
				1.25	DESIGN VARIANCE - FUTURE FACTOR (FOR SERVICE SIZ
				271,320 VA	760 AMPS AT 120/208-3PH VOLT
				1000 AMPS	SERVICE SIZE FROM TRANSFORMER

 ALL LOAD SIZING IS IN ACCORDANCE WITH THE 2011 NEC. SIZE OF UTILITY TRANSFORMER IS AT UTILITY COMPANIES DISCRETION AND DIVERSITIES. IT IS ASSUMED EVERGY WILL HAVE A 250-300 KVA I 	PAD MOUNT.
EVERGY IS EXPECTED TO HAVE JUST SINGLE UTILITY ENTRANCE - 12.47 KV TO 208/120V-3PH,4W PAD MOUNTED TRANSFORMER. METERING WILL EXTERIOR METER AND CT CABINET.	L BE FROM

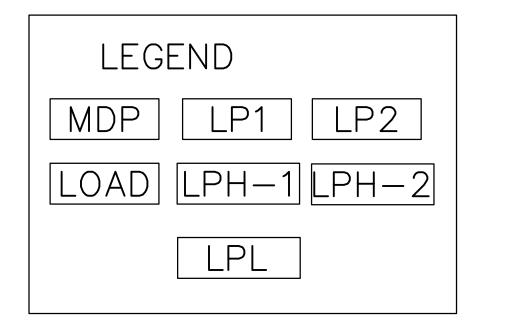
	NEL DESIGNATION:		MANU	FACTUR		QUARE D							22K
NE	EW "LP1"				/PE: No ING: SU	QOD IRFACE	POLE	S: 42	MAINS:	200 AMP MLO	ı	DIMENSIONS: 20" WIDE, 6.5" DEEP	
CKT NO	LOAD DESCRIPTION		** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE A	LOADS B	С		CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	OFFICE RECEPTS		20		360	2468			900	20		BUILDING AUTOMATION SYSTEM	2
3	OFFICE RECEPTS		20		1500		2468		900	20		SECURITY/ACCESS CONTROL	4
5	OFFICE RECEPTS		20		1500			1860	960	20		IT ROOM QUAD	6
7	OFFICE RECEPTS		20		900	1320			960	20		IT ROOM QUAD	8
9	CONF RECEPTACLES	/TV	20		360		1860		2200	30		RACK NEMA 5-20P UPS / PDU DROP	10
11	CONF RECEPTACLES/FLO	OOR BOX	20		720			2220	500	20		LIGHTING CONTROL PANEL	12
13	EXTERIOR OUTLET	ΓS	20	GFI	720	1620			900	20		WHITE NOISE RACK (L5-20R)	14
15	WORK ROOM OUTLE	ETS	20		1080		1620		900	20		ACCESS CONTROL DOORS	16
17	CHARGING COUNTER O	UTLETS	20		1080			1800	1000	20		CELL BOOSTER/SATELLITE (ASOS)	18
19	TOILET RECEPTS	3	20	GFI	1080	1080			1000	2		II	20
21	LOCKER ROOM RECE	PTS	20		900		2000		1000	20		FLOOR COPIER (LOCATION TBD)	22
23	STORAGE RECEP	TS	20		900			2000	1000	20		FIRE ALARM CONTROL PANEL	24
25	MONITORS AT CHARGING	STATION	20		900	1900			1000	20	GFI	BREAK ROOM REFRIGERATOR	26
27	CUSTODIAL OUTLE	ETS	20		900		1900		1000	20	GFI	BREAK ROOM DISHWASHER	28
29	PLANNING COUNTER R	ECEPTS	20		900			1900	1000	20	GFI	BREAK ROOM MICROWAVE	30
31	RECEPTION/CORRIDOR	OUTLETS	20		900	1900			1000	20	GFI	BREAK / WORK RM AC RECEPTS	32
33	CONF ROOM COFFEE	MAKER	20		1000		2000		1000	20	GFI	BREAK ROOM GARBAGE DISP.	34
35	CONF ROOM U/C QUAD FOR	R CRESTRON	20		1000			2000	1000	20		CRESTRON RACK (L5-20R)	36
37	CONF ROOM MOTORIZED	SHADES	20		400	0				20		MEZZANINE WORK STATION OUTLETS	38
39	SPARE		20				0			20		SPARE	40
41	SPARE		20					0		20		SPARE	42
									-	-			
									-	-			
	-								-	-			
	BREVIATIONS: TOTAL CO		NECTED	PHASE L	OADS	12368	11948	11880	VA	NOTES	۸۲۲۶۹	ODIES:	
AF	- ARC FAULT CIRCUIT INTERRUPTER	* COOI	LING DIVE	RSIFIED	LOAD	10545	9792	9734	VA		RSIFIED	LOADS INDICATED HAVE BEEN	
GF			TING DIVERSIFIED LOAD			10545	9792	9734	VA			D IN ACCORDANCE WITH THE LECTRIC CODE.	
HLO	- HANDLE LOCK 'OFF'		PHASE LOADS				83	83					
		FUTURE FACTOR					1.25		NEW BREAKER SHALL BE BOLT-ON TYPE				
		MINIMU	JM PANEL/	FEEDER	RSIZE		109		AMPS *** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY				

	CIRCUIT E	BRE	4KE	ΞR	PAI	NEL	ВО	AR	D S	СН	EDULE		
	ANEL DESIGNATION: EW "LPH" (SECT 1)		JFACTUR TY MOUNTI	PE: N	QUARE D QOD RFACE	POLE	:S: 42		GE: 120/20 400 AMP FTL***		ASE, 4 WIRE MIN. AIC: 2 DIMENSIONS: 20" WIDE, 6.5" DEEP	22K	
CKT NO	LOAD DESCRIPTION	CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE A	LOADS B	С	4	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CK [*]	
1	VAV-1 (5.0 KW)	35		2500	4500			2000	30		VAV-2 (4.0 KW)	2	
3	"	2		2500		4500		2000	2		11	4	
5	VAV-3 (2.5 KW)	20		1250			3750	2500	35		VAV-4 (5.0 KW)	6	
7	"	2		1250	3750			2500	2		11	8	
9	VAV-5 (2.5 KW)	20		1250		2500		1250	20		VAV-6 (2.5 KW)	10	
11	u u	2		1250			2500	1250	2		11	12	
13	VAV-7 (2.5 KW)	20		1250	2500			1250	20		VAV-8 (2.5 KW)	14	
15	"	2		1250		2500		1250	2		11	16	
17	VAV-9 (12.0 KW)	45		4000			6500	2500	30		VAV-10 (7.5 KW)	18	
19	"	3		4000	6500			2500	3		11	20	
21	"	3		4000		6500		2500	3		11	22	
23	VAV-11 (12.0 KW)	45		4000			6500	2500	30		VAV-12 (7.5 KW)	24	
25	n n	3		4000	6500			2500	3		П	26	
27	u u	3		4000		6500		2500	3		П	28	
29	VAV-13 (7.5 KW)	30		2500			5000	2500	35		VAV-14 (5.0 KW)	30	
31	u u	3		2500	5000			2500	2		П	32	
33	"	3		2500		5167		2667	30		VAV-16 (8.0 KW)	34	
35	SPARE	20					2667	2667	3		11	36	
37	SPARE	20			2667			2667	3		п	38	
39	SPARE	20		0		2500		2500	35		VAV-17 (5.0 KW)	40	
41	SPARE	20					2500	2500	2		II .	42	
					9000			7750	-		FEED THRU LUGS TO SECTION 2		
						8750		6000	-		u		
							6750	6750	-		II		
	KEVIATIONS.	ONNECTED			39167 <u>-</u>	37167 -	36167	VA	NOTES//	ACCESSO	PRIES:		
	CIRCUIT INTERRUPTER	DLING DIVE			05000	00450	00050	VA			LOADS INDICATED HAVE BEEN IN ACCORDANCE WITH THE		
	CIRCUIT INTERRUPTER	ATING DIVE		LUAD	35320	33450	32250	VA	NAT	IONAL ELE	ECTRIC CODE.		
HLC) - HANDLE LOCK 'OFF'	PHASE L			294	278 1.25	272	AMPS	SHO	WN. SER	V BREAKERS, SIZE AND TYPE, AS IES RATINGS SHALL BE ALLOWED. R SHALL BE BOLT-ON TYPE		
		IUM PANEL		SIZE		367		AMPS			JGS TO SECTION 2		
L					<u> </u>	-			AIVIFO				

PA	NEL DESIGNATION:		MANU	FACTUF	RER: SC	QUARE D	_		VOLTA	GE: 120/20	8V, 3 PH	HASE, 4 WIRE MIN. AIC:	22K
NE	EW "LPL"			T TNUOM		QOD RFACE	POLE	S: 30	MAINS:	100 AMP MLO		DIMENSIONS: 20" WIDE, 6.5" DEEP	
CKT NO	LOAD DESCRIPTION		** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE A	LOADS B	С	1	** CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CK NC
1	LOBBY LIGHTING		20		1500	2400			900	20		EXTERIOR LIGHTING	2
3	LOBBY LIGHTING		20		1500		2400		900	20		EXTERIOR LIGHTINGG	4
5	LOBBY LIGHTING		20		1500			1975	475	20		EXTERIOR POLE LIGHTING	6
7	MEZZANINE LIGHTIN	IG	20		900	1375			475	2		11	8
9	LOUNGE/WAITING/RESTRO	OOM LTG	20		1500		2500		1000	20		EXTERIOR CANOPIES/ENTRY LTG	10
11	ENTRY/COFFEE/CAFE L	IGHTING	20		720			2220	1500	20		LIGHTING CONTROL PANEL	1
13	RECEPT/LINE SERV/PLAN	NING LTG	20		900	1800			900	20		OFFICES 116, 117, 119 LIGHTING	1
15	BREAK ROOM, WALL GF	RAZ LTG	20		500		1400		900	20	C	FFICES 114, BREAK/WORK 110-112 L	TG 1
17	CONF 103 LTG		20		600			1600	1000	20		RESTROOMS/LOCKER/WET GEAR LT	G 1
19	MEP/IT ROOM LIGHT	ING	20		600	1600			1000	20	CC	RRIDOR/STORAGE/CUSTODIAL LTG	2
21	SPARE		20		1000		2000		1000	20		AIRSIDE CANOPY LIGHTING	2
23	SPARE		20		1000			2000	1000	20		SPARE	2
25	SPARE		20			0			1000	20		SPARE	2
27	SPARE		20				0		1000	20		SPARE	2
29	SPARE		20					0	1000	20		SPARE	3
									-	-			
									-	-			
									=	-			
ABBREVIATIONS: TOTAL C		TOTAL COI	NNECTED	PHASE L	LOADS	7175	8300	7795	VA	NOTES	١٥٥٥٥	ODIES:	
AF	AF - ARC FAULT * COC CIRCUIT INTERRUPTER		LING DIVE	RSIFIED	LOAD	7175	8300	7795	VA		RSIFIED	LOADS INDICATED HAVE BEEN	
		* HEA	TING DIVEI	RSIFIED	LOAD	7175	8300	7795	VA			D IN ACCORDANCE WITH THE LECTRIC CODE.	
HLO	- HANDLE LOCK 'OFF'		PHASE LOADS				69	65	AMPS				
			FUTURE F	ACTOR			1.25			NEW BREAKER SHALL BE BOLT-ON TYPE			
		MINIMU	JM PANEL/	FEEDEF	RSIZE		86		AMPS	*** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY			

CKT NO L 1 3 5 7 9	W "LP2" LOAD DESCRIPTION BREAK RANGE (6-50R) " BREAK ROOM REFRIGERA' BREAK ROOM DISHWASH BREAK ROOM MICROWAY ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV PLANNING RECEPT / T	IER	*** CIRCUIT BREAKER 50 2 20 20 20 20 20 20	TYPE GFI GFI GFI	PE: NO	QOD RFACE PHASE A 2468	POLE LOADS B 2468	S: 54	LOAD	200 AMP MLO ** CIRCUIT BREAKER 20 20	TYPE	DIMENSIONS: 20" WIDE, 6.5" DEEP LOAD DESCRIPTION COFFEE COUNTER OUTLET COFFEE COUNTER OUTLET	CN
NO L 1 3 5 7 9 11 13 15 17	BREAK RANGE (6-50R) " BREAK ROOM REFRIGERA BREAK ROOM DISHWASH BREAK ROOM MICROWAY ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV	IER	CIRCUIT BREAKER 50 2 20 20 20 20 20	GFI GFI GFI	3000 3000 900 360	A 2468	В		(VA) 900	BREAKER 20		COFFEE COUNTER OUTLET	١
3 5 7 9 11 13 15 17	BREAK ROOM REFRIGERA' BREAK ROOM DISHWASH BREAK ROOM MICROWA' ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV	IER	2 20 20 20 20 20	GFI GFI	3000 900 360		2468	1960					ļ
5 7 9 11 13 15	BREAK ROOM DISHWASH BREAK ROOM MICROWAY ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV	IER	20 20 20 20 20	GFI GFI	900 360	1320	2468	1960	900	20		COFFEE COUNTED OUTLET	T
7 9 11 13 15	BREAK ROOM DISHWASH BREAK ROOM MICROWAY ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV	IER	20 20 20	GFI GFI	360	1320		1000				COFFEE COUNTER OUTLET	1
9 11 13 15	BREAK ROOM MICROWAY ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV		20	GFI		1320		1000	900	20		PILOT LOUNGE OUTLETS	T
11 13 15 17	ROOFTOP WP RECEPT WAITING OUTLETS WAITING OUTLETS/TV	VE	20		720				900	20 PILOT TV/OUTLETS		PILOT TV/OUTLETS	ı
13 15 17	WAITING OUTLETS WAITING OUTLETS/TV						1860		900	20	GFI	TOILET OUTLETS	1
15 17	WAITING OUTLETS/TV		20	GFI	720			2220	900	20	GFI	TOILET OUTLETS	1
17			I ^{∠∪}		720	1620			900	20		FIRE PLACE	1
	PLANNING RECEPT / T		20		720		1620		900	20		MEZZANINE OUTLETS	Ţ
19		V	20		720			1800	900	20		ELECTRIC DRINKING FOUNTAIN	T
	CAFE RECEPTS / FLOOR	вох	20		1000	1080			900	20		WASHING MACHINE	1
21	CAFE KITCHEN QUAD)	20		1000		2000		1500	30		CLOTHES DRYER	[2
23	CAFE KITCHEN QUAD)	20		1000			2000	1500	2		11	[2
25	CAFE KITCHEN QUAD)	20		1000	1900			900	20		ICE MACHINE	[2
27	CAFE POS		20		1000		1900		900	20		AUTOMATIC DOORS AT VESTIBULES	
29	LOBBY/CONCOURSE OUT	LETS	20		1000			1900	900	20		RES. RANGE RECIRC HOOD/OUTLETS	3
31	LOBBY/CONCOURSE OUT	LETS	20		1000	1900			900	20		ELEVATOR CAB LTG, RECEPTS	[3
33	GARBAGE DISPOSE	:R	20	GFI	1000		1800		800	20		VERTICAL REFRIGERATOR	34
35	GARBAGE DISPOSE	:R	20	GFI	1000			1800	800	20		VERTICAL REFRIGERATOR	3
37	BREAKROOM U/C REFRIGE	ERATOR	20	GFI	900	1700			800	20		VERTICAL REFRIGERATOR	[3
39	MEZZANINE POKE-THRU	BOXES	20		900		0			20		WAITING ROOM MOTORIZED SHADES	3 4
41	SPARE		20					0		20		SPARE	4
									-	-			_
									-	-			
									-	-			
	CIRCUIT INTERRUPTER		NNECTED I	PHASE L	OADS	12668	11048	10980	VA	NOTES/A	VCCE88	ODIES	
			LING DIVE	RSIFIED	LOAD	9545	8792	8734	VA	* DIVE	RSIFIED	LOADS INDICATED HAVE BEEN	
			ATING DIVERSIFIED LOAD			9138	8519	8455	VA			D IN ACCORDANCE WITH THE LECTRIC CODE.	
			PHASE LO	OADS		83	78	78	AMPS ** PROVIDE NE			W BREAKERS, SIZE AND TYPE, AS RIES RATINGS SHALL BE ALLOWED.	

PA	NEL DESIGNATION:		MANU	FACTUR	ER: SC	QUARE D			VOLTA	GE: 120/20	8V, 3 PHA	ASE, 4 WIRE MIN. AIC:	22K	
NE	W "LPH" (SE	CT 2)				QOD	DOI 5	20 00	MAINS:	400 AMP		DIMENSIONS: 20" WIDE, 6.5" DEEP		
СКТ			** CIRCUIT	TYPE	NG: SU	PHASE	POLE LOADS	S: 30	LOAD	MLO ** CIRCUIT	TYPE			
NO	LOAD DESCRIPTION	l	BREAKER		(VA)	Α	В	С	1	BREAKER		LOAD DESCRIPTION	C N	
43	BEH-1/BEH	H-2/BEH-2	20		1500	3000			1500	20		EWH-1 (3.0 KW)	4	
45	u		2		1500		3000		1500	2		п	4	
47	BEH-3 (2	2.0 KW)	20		1000			2500	1500	20		EWH-2 (3.0 KW)	4	
49	11		2		1000	2500			1500	2		п	5	
51	VRF COND UNIT	(VERIFY MOCP)	35		1500		2500		1000	20		BEH-3 (2.0 KW)	5	
53	u		2		1500			2500	1000	2		п	5	
55	INDOOR VRF UNIT	S (VERIFY MOCP)	15		250	750			500	20		WATER HEATER WH-1/WH-2	5	
57	u		2		250		250		500	20		EXHAUST FAN EF1	5	
59	VRF COND UNIT (VERIFY MOCP)		45		2200			2700	500	20		EXHAUST FAN EF2	6	
61	II .		2		2200	2700			500	20		EXHAUST FAN EF3	6	
63	INDOOR VRF UNIT	S (VERIFY MOCP)	15		250		250			20		SPARE	6	
65	u .		2		250			250		20		SPARE	6	
67	SPAI	RE	20			0				20		SPARE	6	
69	SPAI	RE	20				0			20		SPARE	7	
71	SPAI	RE	20					0		20		SPARE	7	
						-			-	-			·	
							-		-	-				
								-	-	-				
ABBREVIATIONS: TOTAL C		TOTAL CO	NNECTED	PHASE L	OADS.	8750	6000	7750	VA					
AF	- ARC FAULT CIRCUIT INTERRU	* COO	LING DIVE	RSIFIED	LOAD	4000	2900	3250	VA	NOTES/ACCESSORIES: * DIVERSIFIED LOADS INDICATED HAVE BEEN				
GF	- GROUND FAULT CIRCUIT INTERRU		TING DIVE	RSIFIED	LOAD	8750	6000	7750	VA			IN ACCORDANCE WITH THE ECTRIC CODE.		
HLO	- HANDLE LOCK 'OF		PHASE L	DADS		75	50	70	AMPS	AMPS ** PROVIDE NEW BREAKERS, SIZE AND TYPE, AS SHOWN. SERIES RATINGS SHALL BE ALLOWED. NEW BREAKER SHALL BE BOLT-ON TYPE				
			FUTURE F	ACTOR			1.25							
		MINIM	JM PANEL/	FEEDER	SIZE	87			AMPS	*** FEED WITH WIRING FROM SECTION 1 FTL				



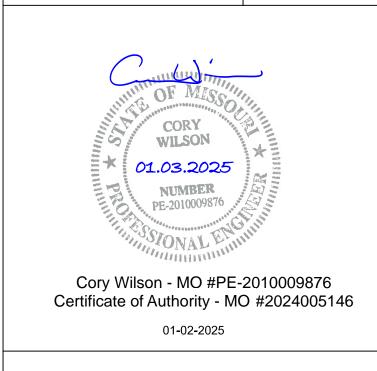




1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108



1701 WALNUT STREET, SUITE 300 KANSAS CITY, MO 64108



LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

A 01.03.25 CITY REVIEW COMMENTS
MARK DATE DESCRIPTION

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

DRAWN BY: DM CHECKED BY: WAI APPROVED BY: Approver COPYRIGHT 2024

SHEET TITLE

ELECTRICAL SCHEDULES

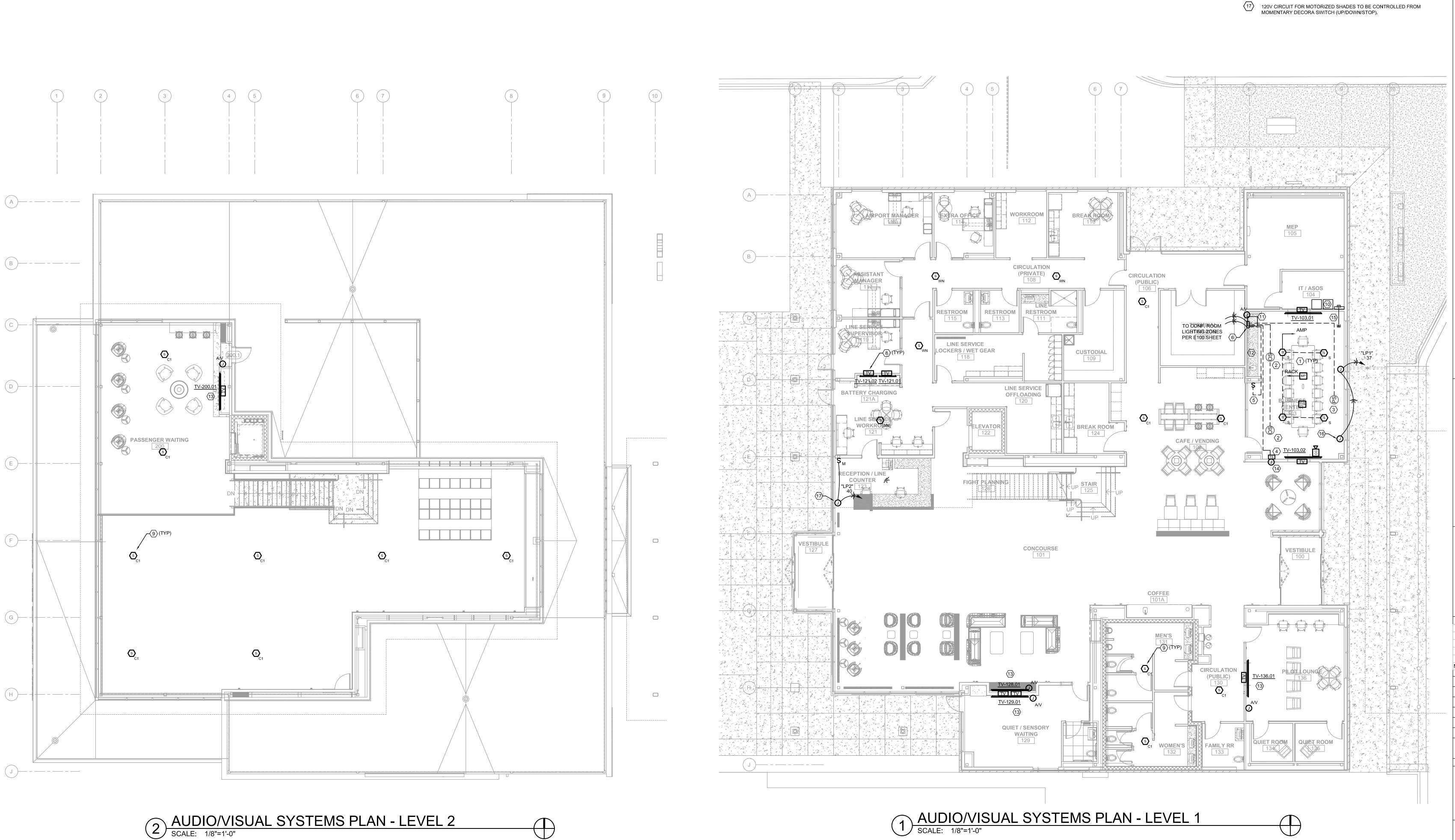
E-510 SHEET 102 OF 102



PROVIDE A 2" CONDUIT WITH PULL STRING STUBBED ABOVE ACCESSIBLE CONFERENCE ROOM FROM AV CABINET IN CENTRAL CLOSET.

120V CIRCUIT FOR MOTORIZED SHADES TO BE CONTROLLED BY

CRESTRON SYSTEM VIA RELAY.



Cory Wilson - MO #PE-2010009876 Certificate of Authority - MO #2024005146 01-02-2025

LEES SUMMIT MUNICIPAL AIRPORT

MARK DATE DESCRIPTION

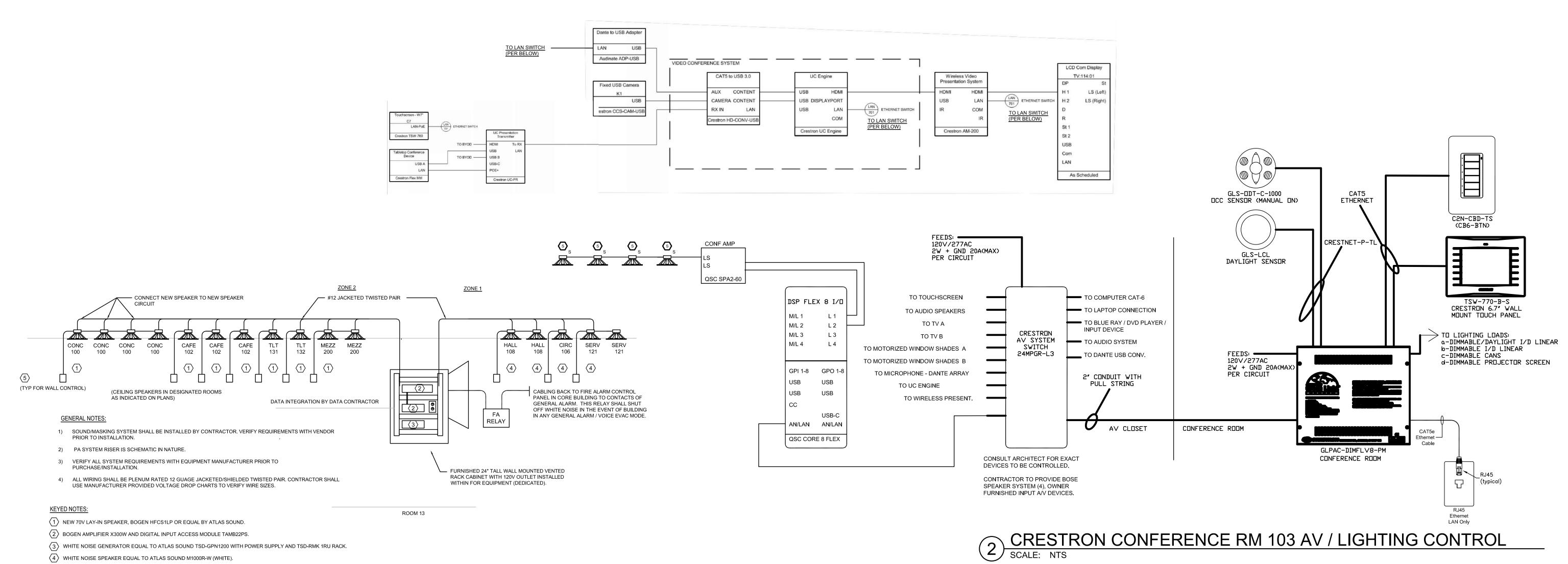
PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

DRAWN BY: DM CHECKED BY: WAI APPROVED BY: Approver COPYRIGHT 2024

SHEET TITLE

AUDIO/VISUAL PLANS

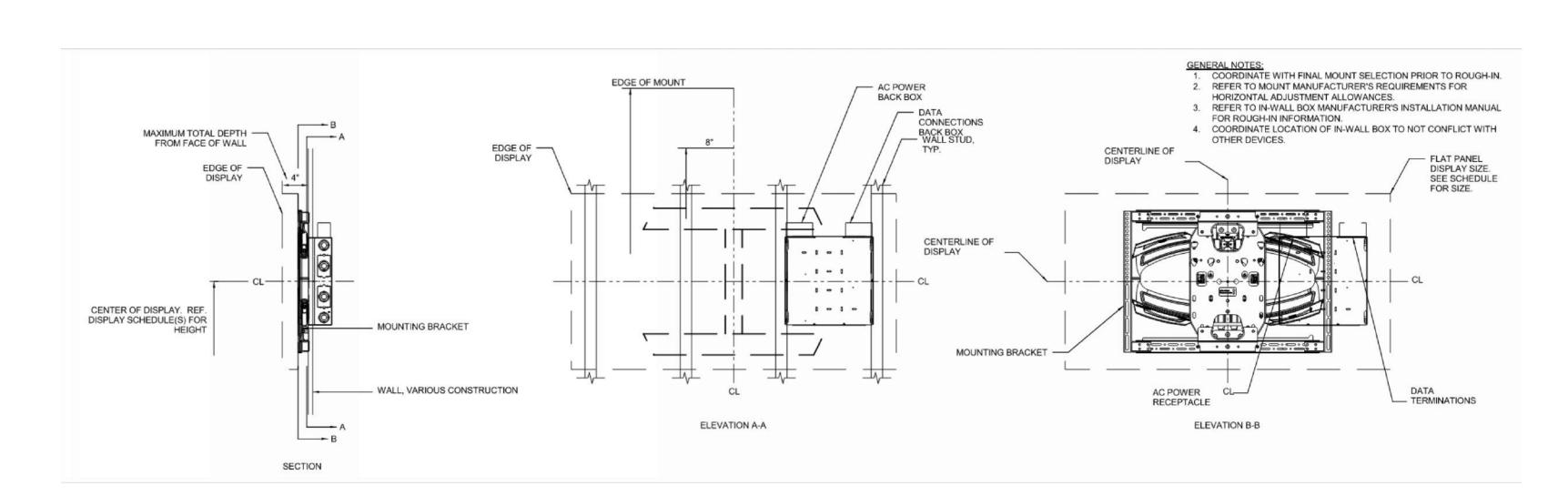
> AV100 SHEET 103 OF 102



5 PA/WHITE NOISE SPEAKER DIAGRAM
SCALE: NTS

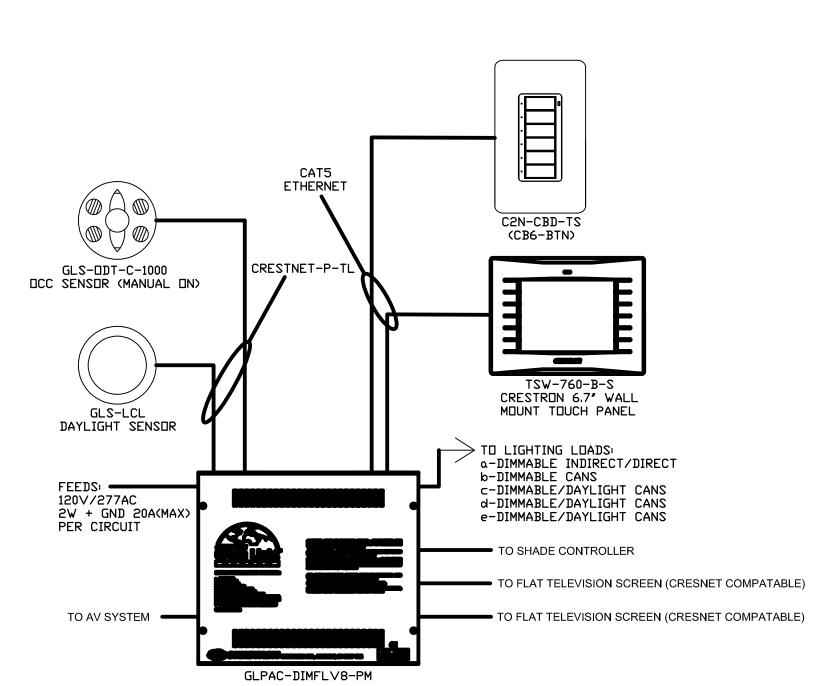
(5) ROOM SOUND CONTROL FOR EVERY SPEAKER ZONE EQUAL TO ATLAS MODEL AT10 (OR COMPATABLE) OR BOGEN

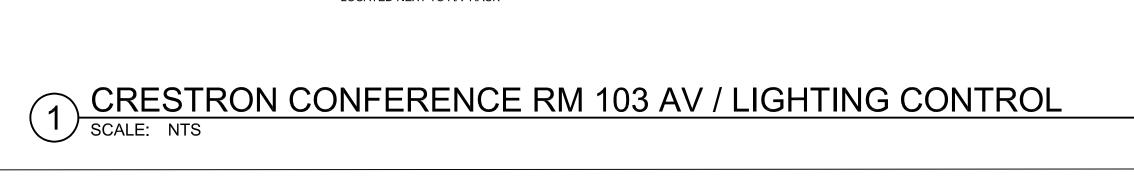
 $\langle 4 \rangle$ WHITE NOISE SPEAKER EQUAL TO ATLAS SOUND M1000R-W (WHITE).

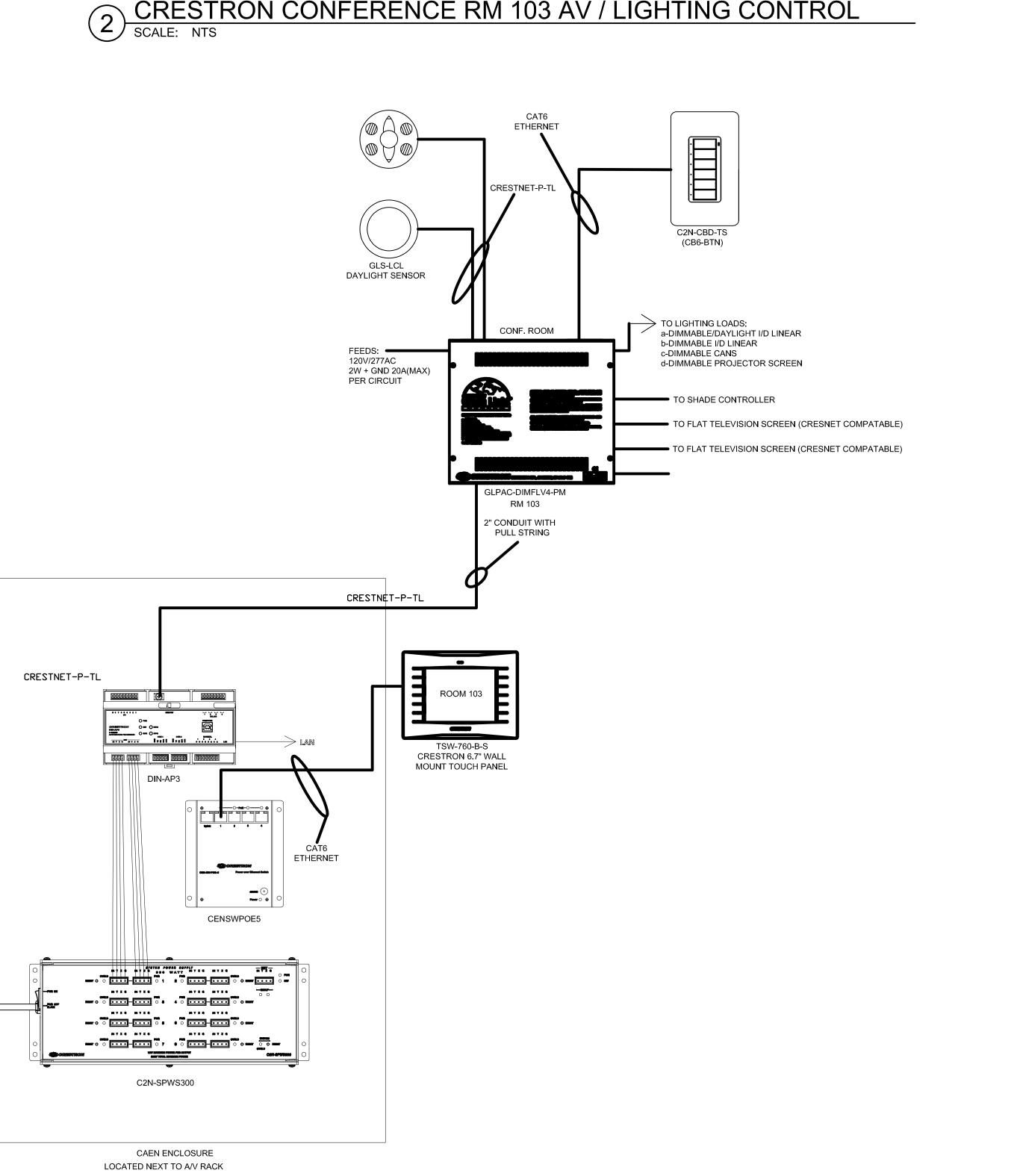


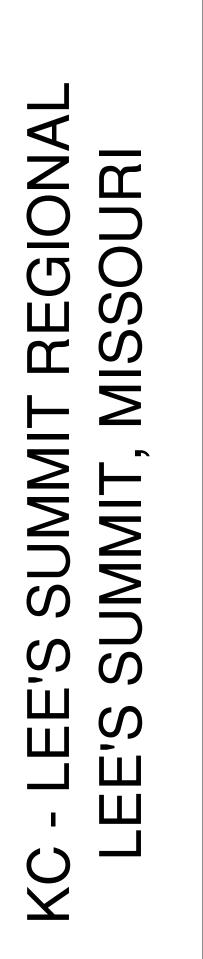
FLAT PANEL DISPLAY TYPICAL MOUNTING DETAIL

SCALE: NTS









CMT

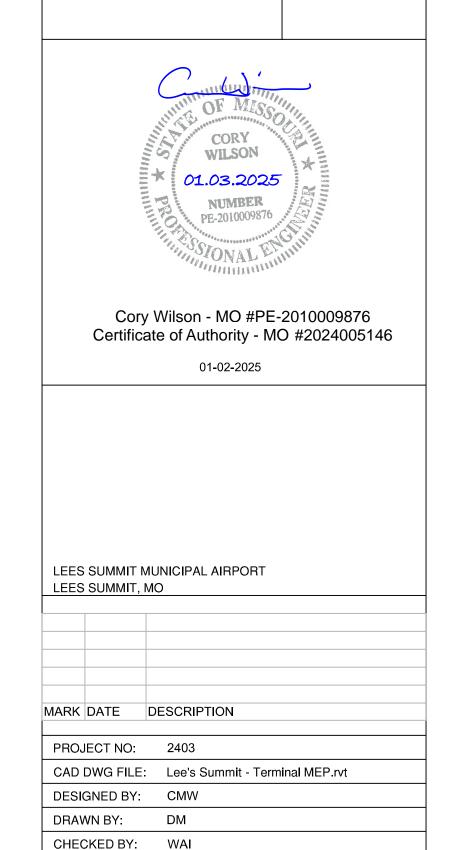
1627 MAIN STREET, SUITE 600

1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

1701 WALNUT STREET, SUITE 300

KANSAS CITY, MO 64108

KANSAS CITY, MO 64108



DETAILS

AUDIO/VISUAL

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SHEET TITLE

AUE	OIO/V	ISUAL LOUE	SPEAK	ER SC	HEDULE				
SYMBOL	ID	DESCRIPTION	LOAD TYPE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	INSTALL HEIGHT AFF	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
S) _{C1}	SP-C1	MUSAK SPEAKER	70V	ALL	BOGEN #: BOGEN HFCS1LP (BLACK UPPER, WHITE LOWER CEILINGS)	CEILING / FLUSH	T-BAR LAY-IN (CUT IN WOOD/GYP CEILINGS	CONTRACTOR/CONTRACTOR)	123
S	SP-WN	WHITE NOISE SPEAKER	70V	OFFICE AREA	ATLAS SOUND #: M1000R-W (WHITE)	CEILING / FLUSH	T-BAR MOUNT	CONTRACTOR/CONTRACTOR	124
S _S	SP-S	CONF ROOM AUDIO SPEAKERS	70V	CONF ROOM	COMMUNITY #: D6-70V (15 WATT)	CEILING/FLUSH	CUT-IN	CONTRACTOR/CONTRACTOR	12

<u>NOTES</u>	

NEW WALL MOUNTED CABINET EQUAL TO TRIPP LITE

MODEL SRW12US WITH 12U OF RACK MOUNTING SPACE, LOCKABLE DOOR, 24" WIDE, 19" RACK

NEW RACK PDU EQUAL TO APCAP9564, 1U FACK MOUNT DESIGN, 10X NEMA 5-20R OUTLETS, (1)

—1U CABLE MANAGMENT

-1U CABLE MANAGMENT

L5-20P INPUT CORD.

NEW 24-PORT CAT-6 PATCH PANEL

SHELF FOR CRESTRON EQUIPMENT.

- 12/2 PLENUM RATED CABLING TO AMPLIFIER
- BACKING AND MOUNTING PER DETAIL ON AV300
- FOR MUSAK SPEAKERS, FURNISH WALL VOLUME CONTROL BOGEN GSRVC TO BE MOUNTED IN SINGLE GANG BOX
- ADDITIONAL EQUIPMENT FOR SOUND:
- BOGEN AMPLIFIER X300W AND DIGITAL INPUT ACCESS MODULE TAMB22PS.
- WHITE NOISE GENERATOR EQUAL TO ATLAS SOUND TSD-GPN1200 WITH POWER SUPPLY AND TSD-RMK 1RU
- PROVIDE 70W MINIMUM, 2 CHANNEL, 8 OHM IMPED AMPLIFIER FOR CONF ROOM SOUND SYSTEM, 1-2 RACK UNIT FOR WHITE NOISE SPEAKERS, FURNISH ATLAS SOUND AT10 WALL VOLUME CONTROL.

SYMBOL	ID	DESCRIPTION	BOX TYPE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	(CENTER OF DISPLAY) INSTALL HEIGHT AFF	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
MP	MP	CONF MICROPHONE ARRAY CONNECTION BOX	SHURE MXA910	CONF ROOM	DANTE #: XXX USB ADAPTER - AUDINATE ADP-USB	CEILING / FLUSH	T-BAR LAY-IN (CUT IN WOOD/GYP CEILINGS	CONTRACTOR/CONTRACTOR	1
D CC	CC	VIDEO CONFERENCING CAMERA		CONF ROOM	CRESTRON #: CCS-CAM-USB	SHELF/TV		CONTRACTOR/CONTRACTOR	
	-	VIDEO CONFERENCING SYSTEM		CONF ROOM	CRESTRON #: CAT6 TO USB 3.0 - HD-CONV-USB UC ENGINE - CRESTRON UC ENGINE WIRELESS VIDEO PRESENTATION - CRESTRON AM-200 UC PRESENTATION TRANSMITTER - CRESTRON UC-PR				
TS	TS	SYSTEM TOUCHSCREEN 7" FLAT		CONF ROOM	CRESTRON #: TSW-770-B-S	WALL, DOUBLE GANG BOX		CONTRACTOR/CONTRACTOR	
ттѕ	TTS	TABLE TOP TOUCHSCREEN W7"		CONF ROOM	CRESTRON #: FLEX MM UC-MM30-R	WORK SURFACE TABLE		CONTRACTOR/CONTRACTOR	
АМР	AMP	CONF SPEAKER AMPLIFIER TYPE 60VM		CONF ROOM	QSC #: SPA2-60	SHELF, IN CABINET		CONTRACTOR/CONTRACTOR	
AVC	AVC	AV&C PROCESSOR DSP FLEX 8 I/O		CONF ROOM	QSC #: QSC CORE 8 FLEX	SHELF, IN CABINET		CONTRACTOR/CONTRACTOR	
1 c 2 3	ABLING TO L	JSB CONVERTER PER DIAGRAM				•			

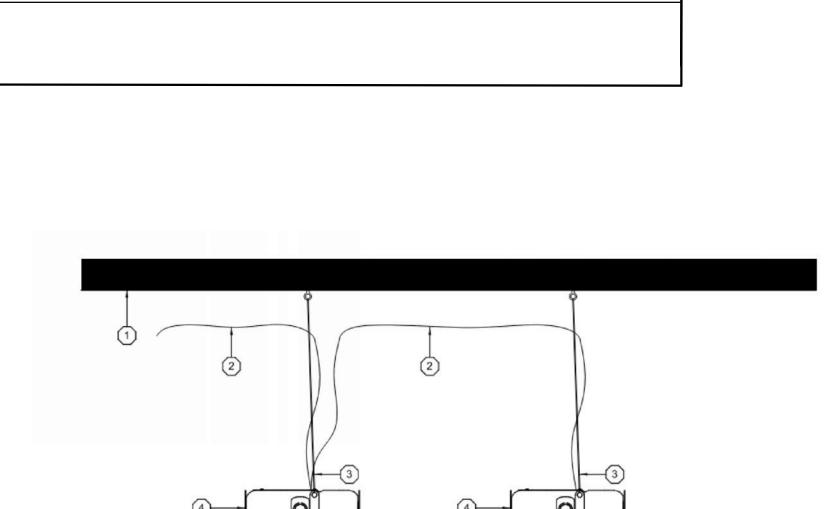
AUE	OIO/V	ISUAL FLAT	PANEL	DISPL	AY SCHEDULE				
SYMBOL	ID	DESCRIPTION	SIZE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	INSTALL HEIGHT AFF (CENTER OF DISPLAY)	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
	TV-103:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	CONFERENCE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1234
	TV-103:02	LCD COMM DISPLAY - 2160/75 (4K)	75"	CONFERENCE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1234
	TV-129:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	QUIET/WAITING	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	124
	TV-136:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	PILOT LOUNGE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	124
	TV-101:01	LCD COMM DISPLAY - 2160/86 (4K)	86"	CONCOURSE	LG #: 86UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	12
	TV-121:01	LCD COMM DISPLAY - 2160/50 (4K)	50"	LINE SERVICE	LG #: 50UR340C	68"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	12
	TV-121:02	LCD COMM DISPLAY - 2160/50 (4K)	50"	LINE SERVICE	LG #: 50UR340C	68"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	12
	TV-200:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	QUIET/WAITING	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	124

(1) LEGRAND A/V POWER/DATA BOX PER POWER/SPECIAL SYSTEMS PLANS

(4) CAT-6 LAN DROP TO TELEVISION, HDMI TO WALL OR FLOOR BOX STATION

(3) CRESTRON A/V CONTROLLER AND DIGITAL MEDIA CONNECTIONS

BACKING AND MOUNTING PER DETAIL ON AV300



NEW WALL MOUNTED CABINET EQUAL TO TRIPP LITE MODEL SRW12US WITH 12U OF RACK MOUNTING

SPACE, LOCKABLE DOOR, 24" WIDE, 19" RACK

NEW RACK PDU EQUAL TO APCAP9564, 1U RACK MOUNT DESIGN, 10X NEMA 5-20R OUTLETS, (1)

-1U CABLE MANAGMENT

WHITE NOISE GENERATOR.

SHELF FOR MUSAK/SOUND EQUIPMENT.

L5-20P INPUT CORD.

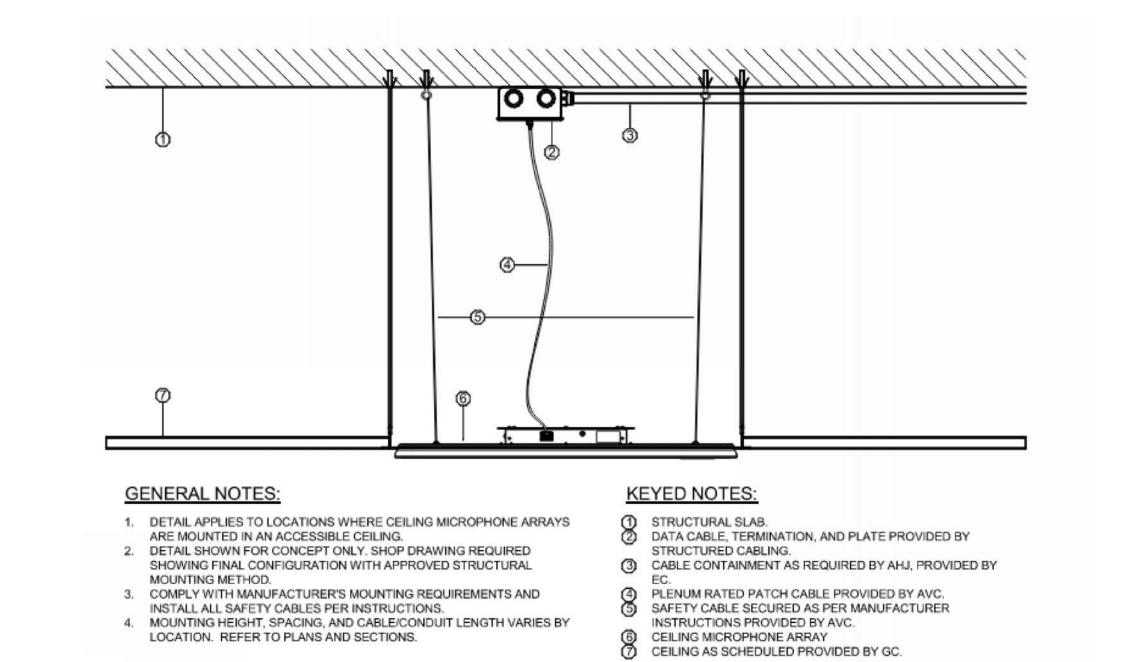
1. DETAIL APPLIES TO LOCATIONS WHERE LOUDSPEAKERS ARE MOUNTED WITHIN ACCESSIBLE CEILING. 2. DETAIL SHOWN FOR CONCEPT ONLY. SHOP DRAWING REQUIRED

GENERAL NOTES:

- SHOWING FINAL CONFIGURATION WITH APPROVED STRUCTURAL MOUNTING METHOD. 3. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND
- LOCATION. REFER TO PLANS AND SECTIONS.
- INSTALL ALL SAFETY CABLES PER INSTRUCTIONS. 4. MOUNTING HEIGHT, SPACING, AND CABLE/CONDUIT LENGTH VARIES BY 5. LOCATE CONDUIT SUCH THAT WIRE MAY BE PULLED AFTER FINISHED CEILING IS IN PLACE.
- KEYED NOTES:

1.) STRUCTURE

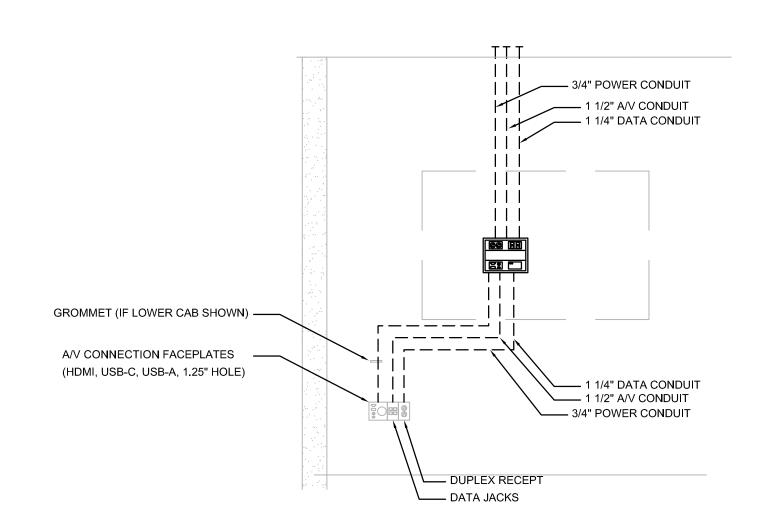
- .) CABLE PATHWAY AS SHOWN ON PLANS. ATTACH TO STRUCTURE. B.) SAFETY CABLE PER MANUFACTURER'S RECOMMENDED INSTALLATION
- 4.) CEILING LOUDSPEAKER MOUNTED WITHIN ACCESSIBLE CEILING. REFER TO DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION. 5.) FINISHED CEILING AS SCHEDULED.



ROCKER SWITCH

THERMOSTAT

CEILING LOUDSPEAKER MOUNTING DETAILS SCALE: NTS



2 A/V ROUGH-IN ELEVATION - TYPICAL REMOTE TV
SCALE: NTS

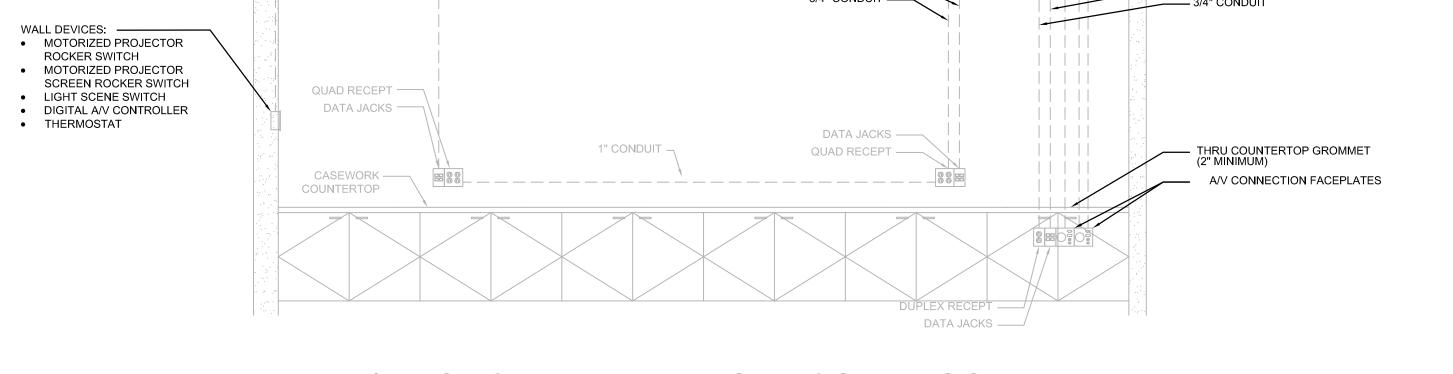
__ 2" CONDUIT TO OTHER A/V FACEPLATE ON OTHER SIDE OF TRAINING RM 1" CONDUIT — — 2" CONDUIT TO A/V CABINET _____ 2" CONDUIT 1" CONDUIT —— _____1-1/4" CONDUIT 3/4" CONDUIT —— QUAD RECEPT ----DATA JACKS ---DATA JACKS —— - THRU COUNTERTOP GROMMET (2" MINIMUM) 1" CONDUIT -QUAD RECEPT —

A/V ROUGH-IN ELEVATION - CONF ROOM 103

SCALE: NTS

(3) CEILING MICROPHONE ARRAY MOUNTING DETAIL

SCALE: NTS





CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

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LEES SUMMIT MUNICIPAL AIRPORT LEES SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 2403 CAD DWG FILE: Lee's Summit - Terminal MEP.rvt DESIGNED BY: CMW

DRAWN BY: DM CHECKED BY: WAI APPROVED BY: Approver COPYRIGHT 2024

SHEET TITLE

AUDIO/VISUAL DETAILS & SCHEDULES

AV500

SHEET 104 OF 102

8/1 PM

NEW CAT 6 CABLES TO NEW DEVICES AS SHOWN ON PLANS

PROCESSOR PANEL BY E/C

CRESTRON RACK

.....

BACK OF IT WALL

5 A/V RACK CABINET DETAILS

SCALE: