

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS:

SECTION 01000

GENERAL CONDITIONS AIA DOCUMENTS B-141 LATEST EDITION, SHALL BE CONSIDERED PART OF THIS DOCUMENT AS IF WRITTEN HEREIN. COPY OF THIS DOCUMENT IS ON FILE WITH THE ARCHITECT AND IS AVAILABLE TO CONTRACTOR UPON WRITTEN REQUEST. THIS SPECIFICATION AS IDENTIFIED ON DRAWINGS IS "SHORT FORM"; HOWEVER, THE INTENT IS AS THOROUGH AND COMPLETE AS IF WRITTEN OUT IN "EXTENDED" FORM. REFER TO ANY SUBMITTALS BY CONDITIONS, ADDENDA, ADVERTISEMENT FOR BIDS, BID FORMS OR INSTRUCTIONS THAT ACCOMPANY OR RELATE TO THESE DOCUMENTS. CONTRACTOR SHALL FURNISH EVIDENCE OF COMPLIANCE WITH WORKMANS COMPENSATION INSURANCE REQUIREMENTS & P.L. & FD COVERAGE INCLUDING AUTOMOBILE COVERAGE.

INSURANCE

- I. CONTRACTOR'S INSURANCE REQUIREMENTS: A. WORKMANS COMPENSATION - STATUTORY B. EMPLOYER'S LIABILITY - UNLIMITED (AS PER RS, MOP 287.010 ETESEQ) LIABILITY INSURANCE INCLUDING PREMISES, OPERATIONS PRODUCTS AND COMPLETED OPERATIONS, CONTRACTUAL, COLLAPSE, UNDERGROUND PROPERTY DAMAGE, ALSO ENDORSED FOR BLASTING. IF BLASTING REQUIRED SUCH COVERAGE SHALL APPLY TO BODILY INJURY AND PROPERTY DAMAGE ON AN "OCCURRENCE FORM BASIS" WITH A COMBINED SINGLE LIMIT OF \$1,000,000. C. AUTOMOBILE LIABILITY INSURANCE COVERING BODILY INJURY AND PROPERTY DAMAGE FOR OWNED, NON-OWNED AND HIRED VEHICLES WITH A COMBINED SINGLE LIMIT OF \$1,000,000. II. CONTRACTOR SHALL REQUIRE ANY AND ALL SUB-CONTRACTORS WITH WHOM IT ENTERS INTO A CONTRACT TO PERFORM WORK ON THE CONSTRUCTION PROJECT TO PROTECT THE OWNER THROUGH INSURANCE AGAINST APPLICABLE HAZARDS OR RISKS. EVIDENCE OF INSURANCE TO BE PROVIDED TO ARCHITECT. III. CONTRACTOR SHALL BE LIABLE FOR ALL DEDUCTIBLE AMOUNTS FROM SUCH INSURANCE AND SHALL INDEMNIFY TO HOLD "OWNER" HARMLESS. IV. OWNER TO FURNISH AND HOLD "OWNER" HARMLESS. V. CONSTRUCTION WORKING CONDITIONS SHALL COMPLY WITH ALL LOCAL CODES AND REGULATIONS. VI. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY PHONE, TOILETS, UTILITIES AND DRINKING WATER.

SCOPE OF WORK

WORK OF THIS CONTRACT INCLUDES FURNISHING OF ALL LABOR, MATERIALS, APPLIANCES, TRANSPORTATION AND SERVICES REQUIRED FOR SATISFACTORY CONSTRUCTION OF THIS FACILITY AS INDICATED IN THE DRAWINGS. GENERAL CONTRACTOR OR ANY SUB-CONTRACTORS SHALL INSPECT THE PREMISES AND VERIFY EXISTING CONDITIONS AND DIMENSIONS AND EFFECT ALL ALTERATIONS, ADJUSTMENTS, ETC. TO CONFORM TO CONTRACT DRAWINGS AND SPECIFICATIONS THAT ARE NECESSARY TO CONFORM TO CONTRACTOR'S ANY RESPONSIBILITY. CONTRACTOR SHALL SUBMIT, WITH HIS APPLICATION FOR FINAL PAYMENTS, A LIEN RELEASE COVERING ALL LABOR, MATERIALS AND OTHER COSTS INCURRED AS PART OF THE WORK. INCLUDING SUB-CONTRACTS. CONTRACTORS SHALL, IN THE WORK OF ALL TRADES PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND RESTORE ANY DAMAGE OR AFFECT SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECT AND THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR SUCH PROTECTION SHALL BE ACCOMPLISHED BY TEMPORARY BARRICADES, SOIL STABILIZATION AND DUST AND AIRBORNE DEBRIS BARRIERS AS REQUIRED.

PERMITS, CODES, TESTS AND INSPECTIONS

ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED, UNLESS SPECIFIED OTHERWISE SHALL BE OBTAINED AND PAID FOR BY CONTRACTOR, INCLUDING BUILDING PERMIT FEES, UNLESS ADVISED OTHERWISE. THE CONTRACTOR SHALL CONFORM TO THE PROVISIONS OF ALL STATE NATIONAL AND MUNICIPAL BUILDING AND SANITARY LAWS, AND ALL MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS BEFORE MAKING ANY VARIATION FROM THE DRAWINGS AND SPECIFICATIONS THAT ARE NECESSARY TO CONFORM TO CONTRACTOR'S. THE CONTRACTOR SHALL GIVE THE OWNER AND ARCHITECT WRITTEN NOTICE OF SPECIFYING THE VARIATION PROPOSED TO BE MADE, THE CONTRACT AMOUNT THEREOF, AND THE REASON FOR MAKING IT AND SHALL APPLY ANNOTATED FOR INSTRUCTION THEREON. COSTS FOR ALL TESTS AND INSPECTIONS (EXCEPT INSPECTIONS PROVIDED BY THE ARCHITECT AND OTHER CONSULTANTS AS DURING THE OWNER/ARCHITECT AGREEMENT) SHALL BE PAID FOR BY THE CONTRACTOR. SUPPLEMENT THIS WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS IN HIS EMPLOY IN ACCORDANCE WITH THE STANDARDS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE OWNER AND ARCHITECT SHALL BE HELD HARMLESS FOR ANY ACCIDENT, INJURY OR ANY OTHER INCIDENT RESULTING FROM BARRIERS AS REQUIRED.

DRAWINGS AND SPECIFICATIONS / SITE OBSERVATION VISITS

SHOULD THE DRAWINGS AND SPECIFICATIONS BE CONTRADICTIONARY IN ANY PARTICULAR WAY AND SHOULD THERE BE NO APPARENT ERRORS IN EITHER THE CONTRACTOR SHALL REFER THE MATTER TO THE OWNER OR ARCHITECT FOR EXPLANATION AND SHALL ABIDE BY THE DECISION RENDERED. THE CONTRACTOR SHALL NOT MAKE ANY CHANGE IN THE DRAWINGS OR SPECIFICATIONS AND SHALL USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE. MEASUREMENTS FOR ALL WORK SHALL BE TAKEN AT THE BUILDING BY THE CONTRACTOR FOR EACH SEGMENT OF THE WORK BEFORE COMMENCEMENT OF THE WORK. CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING ON SITE (OR FACILITY) CONDITIONS.

TAXES

THE CONTRACTOR SHALL PAY FOR ALL SALES TAXES, SOCIAL SECURITY TAXES AND ANY OTHER TAX FOR WHICH HE IS LIABLE TO LOCAL, STATE OR FEDERAL GOVERNMENTS AND SHALL GUARANTEE TO HOLD THE OWNER HARMLESS IN EVERY RESPECT AGAINST THE SAME.

GUARANTEE

THE CONTRACTOR GUARANTEES THAT ALL MATERIALS SHALL BE OF THE TYPE AND GRADE SUITABLE FOR ITS USE AND THAT ALL LABOR WILL BE OF SUITABLE SKILL AND THAT ALL WORK WILL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION. THE CONTRACTOR GUARANTEES ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER, INCLUDING IMMEDIATE REPAIRS.

SECTION 01330 - SUBMITTAL PROCEDURES:

- PART 1 - GENERAL 1.1 SUMMARY A. THIS SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR SUBMITTING COORDINATION DRAWINGS, SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER MISCELLANEOUS SUBMITTALS. 1.2 SUBMITTAL PROCEDURES A. COORDINATION: COORDINATE PREPARATION AND PROCESSING OF SUBMITTALS WITH PERFORMANCE OF CONSTRUCTION ACTIVITIES. 1. COORDINATION DRAWINGS: PRIOR TO COMMENCEMENT OF WORK, ALL CONTRACTORS AND SUB-CONTRACTORS SHALL SUBMIT COORDINATION DRAWINGS IDENTIFYING THE LOCATION(S) OF THEIR SCOPE OF WORK AND THE WORK OF OTHER TRADES WITH WORK IN THE SAME AREAS. REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. COMMENCEMENT OF ANY WORK PRIOR TO THE SUBMITTAL OF COORDINATION DRAWINGS WILL INDICATE THAT CONTRACTORS AND SUB-CONTRACTORS CAN INSTALL ALL MEP & PF EQUIPMENT AND MATERIALS AS INDICATED IN THE CONSTRUCTION DOCUMENTS (I.E. ABOVE THE LAY-IN CLOS AT THE HEIGHT GIVEN IN THE ROOM FINISH SCHEDULE). ANY VARIATIONS FROM THE CONSTRUCTION DEPENDING ON THE SEVERITY OF REVISIONS COMPARED TO THE INTENT OF THE CONSTRUCTION DOCUMENTS. 2. COORDINATE EACH SUBMITTAL WITH FABRICATION, PURCHASING, TESTING, DELIVERY, OTHER SUBMITTALS AND RELATED ACTIVITIES THAT REQUIRE SEQUENTIAL ACTIVITY. 3. COORDINATE TRANSMITTAL OF DIFFERENT TYPES OF SUBMITTALS FOR RELATED PARTS OF THE WORK SO PROCESSING WILL NOT BE DELAYED BECAUSE OF THE NEED TO REVIEW SUBMITTALS CONCURRENTLY FOR COORDINATION. 4. ARCHITECT RESERVES THE RIGHT TO WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL RELATED SUBMITTALS ARE RECEIVED.

B. PROCESSING TIME: ALLOW ENOUGH TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR REVISIONS: NO LESS THAN 10 BUSINESS DAYS. C. DEVIATIONS: HIGHLIGHT, ENCIRCLE, OR OTHERWISE IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENT ON SUBMITTALS. D. DEBRIS: CONTRACTOR SHALL FURNISH COPIES OF FINAL SUBMITTALS TO MANUFACTURERS, SUB-CONTRACTORS, SUPPLIERS, FABRICATORS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHERS AS NECESSARY FOR PERFORMANCE OF CONSTRUCTION ACTIVITIES. SHOW DISTRIBUTION ON TRANSMITTAL FORMS. E. USE FOR CONSTRUCTION: USE ONLY FINAL SUBMITTALS WITH MARK INDICATING ACTION TAKEN BY THE ARCHITECT IN CONNECTION WITH CONSTRUCTION. F. SAMPLES: PREPARE PHYSICAL UNITS OF MATERIALS PRODUCTS, INCLUDING THE FOLLOWING: 1. SAMPLES FOR INITIAL SELECTION. SUBMIT MANUFACTURER'S COLOR CHARTS CONSISTING OF UNITS OR SECTIONS OF UNITS SHOWING THE FULL RANGE OF COLORS, TEXTURES AND PATTERNS AVAILABLE. 2. SAMPLES FOR VERIFICATION: SUBMIT FULL-SIZE UNITS OR SAMPLES OF SIZE INDICATED, PREPARED FROM THE SAME MATERIAL, TO BE USED FOR THE WORK. CURED AND FINISHED IN MANNER SPECIFIED, AND PHYSICALLY IDENTICAL WITH THE PRODUCT PROPOSED FOR USE, AND THAT SHOW FULL RANGE OF COLOR AND TEXTURE VARIATIONS EXPECTED. SAMPLES INCLUDE, BUT ARE NOT LIMITED TO, PARTIAL SECTIONS OF MANUFACTURED OR FABRICATED COMPONENTS: SMALL CUTS OR CONTAINERS OF MATERIALS; COMPLETE UNITS OF REPEITIVELY USED MATERIALS; SWATCHES SHOWING COLOR, TEXTURE AND PATTERN; COLOR RANGE SETS; AND COMPONENTS FOR INDEPENDENT TESTINGS AND INSPECTION.

PART 2 - EXECUTION 2.1 CONTRACTOR'S REVIEW A. REVIEW EACH SUBMITTAL AND CHECK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, NOTE CORRECTIONS AND FIELD DIMENSIONS, MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT. B. APPROVAL STAMP: STAMP EACH SUBMITTAL WITH A UNIFORM, APPROVAL STAMP, INCLUDING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER SPECIFICATION SECTION TITLE AND NUMBER, NAME OF REVIEWER, DATE OF CONTRACTOR'S APPROVAL, AND STATEMENT THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. 2.2 ARCHITECT'S ACTION A. GENERAL ARCHITECT WILL NOT REVIEW SUBMITTALS THAT DO NOT BEAR CONTRACTOR'S APPROVAL STAMP AND WILL RETURN WITH WITHOUT ACTION. B. ACTION SUBMITTALS: ARCHITECT WILL REVIEW EACH SUBMITTAL, MAKE MARKS TO INDICATE CORRECTIONS OR MODIFICATIONS REQUIRED AND RETURN IT. ARCHITECT WILL STAMP EACH SUBMITTAL WITH AN ACTION STAMP AND WILL MARK STAMP APPROPRIATELY TO INDICATE ACTION TAKEN. C. INFORMATION SUBMITTALS: ARCHITECT WILL REVIEW EACH SUBMITTAL AND WILL NOT RETURN IT OR WILL REJECT AND RETURN IT IF IT DOES NOT COMPLY WITH REQUIREMENTS. ARCHITECT WILL FORWARD EACH SUBMITTAL TO APPROPRIATE PARTY.

SECTION 07640 - ROOF FLASHING AT PENETRATIONS AND VENTS 1. PROVIDE METAL FLASHING FOR ALL PIPES, DUCTS, AND CONDUNTS PROJECTING THROUGH THE ROOF SURFACE AND FOR EQUIPMENT SUPPORTS, AND SIMILAR ITEMS SUPPORTED BY OR ATTACHED TO THE ROOF DECK. SECTION 07920 - JOINT SEALANTS 1. TO BE DAP BUTYL TREMCO SILICONE OR APPROVE EQUAL. 2. JOINTS TO BE SEALED SHALL BE CLEAN FROM ALL DEBRIS AND DRY, DEPTH = 1/2 MIN ALL JOINTS TO HAVE A BACKER-ROD; SIZE APPROPRIATELY. 3. ALL CAULK AND SEALANTS TO HAVE A SMOOTH BEAD AND BE RECESSED FROM MATERIAL FACE. 4. SEAL SEALS OF ALL WINDOWS, DOOR FRAMES, EXTERIOR OUTLET OPENINGS, EXTERIOR ELECTRICAL PENETRATIONS AND AS SHOWN ON DRAWINGS.

DIVISION 8 - DOORS AND WINDOWS: SECTION 08100 - DOORS AND FRAMES 1. DOORS AND FRAMES SHALL BE STRONG AND RIGID, HEAT IN APPEARANCE, AND FREE FROM DEFECTS, WAVES, SCRATCHES, CUTS, DENTS, RIDGES, HOLES, WARP, AND BUCKLE. MOLDED MEMBERS SHALL BE CLEAN CUT, STRAIGHT, AND TRUE, WITH JOINTS COPEDED OR INTERED, WELL FORMED, AND IN TRUE ALIGNMENT. DRESS EXPOSED WELDED AND SOLDERED JOINTS SMOOTH. DESIGN DOOR FRAME SECTIONS FOR USE WITH THE WALL CONSTRUCTION INDICATED. CORNER JOINTS SHALL BE WELL FORMED AND IN TRUE ALIGNMENT. CONCEAL FASTENINGS WHERE PRACTICABLE. 2. HANG DOORS IN ACCORDANCE WITH CLEARANCES SPECIFIED IN SDI A250.8. AFTER ERECTION AND GLAZING, CLEAN AND ADJUST HARDWARE. 3. PREPARE DOORS TO RECEIVE HARDWARE SPECIFIED IN SECTION FOR DOOR HARDWARE, UNDERCUT WHERE INDICATED. PROVIDE MINIMUM HARDWARE REINFORCING GAGES AS SPECIFIED IN ANSI A250.6, DRILL AND TAP DOORS AND FRAMES TO RECEIVE FINISH HARDWARE. PREPARE DOORS AND FRAMES FOR HARDWARE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SDI A250.8 AND ANSI A250.6. LOCATE HARDWARE IN ACCORDANCE WITH THE REQUIREMENTS OF SDI A250.8. 4. DOOR FRAMES TO RECEIVE A MINIMUM OF TWO RUBBER OR VINYL DOOR SILENCERS ON LOCK SIDE OF SINGLE DOORS, AND ONE SILENCER FOR EACH LEAF AT HEADS OF DOUBLE DOORS. SET LOCK STROKES OUT TO PROVIDE CLEARANCE FOR SILENCERS. 5. PROVIDE THRESHOLDS 2" THICK BY 3-5/8" WIDE WITH REVELED SIDES AND CUT TO FIT AT JAMB ON ALL INSIDE AND EXTERIOR DOORS. FASTEN THRESHOLDS WITH COUSING NAILS. SET NAILS FOR PUTTY STOPPING, INSTALL THRESHOLD ONTO (2) BEADS OF SILICONE SEALANT.

SECTION 08102 - STEEL DOOR AND FRAME SELECTION 1. INTERIOR DOORS AND FRAMES: FRAMES GALVANNEAL PAINTED; 1 1/2 GA DRYWALL, WELDED OR KNOCK DOWN. DOORS GENERAL USES: LIGHT COMMERCIAL; 20 GA DOORS PUBLIC USES: EGRESS LOCATION; HEAVY DUTY; 18 GA DOORS ENTRANCES; EXTRA HEAVY DUTY; 16 GA DOORS LOADING AREAS; MAXIMUM DUTY; 14 GA SECTION 08110 - INSULATED DOORS 1. INSULATED DOORS SHALL HAVE A CORE OF POLYURETHANE FOAM AND AN R FACTOR OF 10.0 OR MORE. 2. PROVIDE ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO MAGNETIC WEATHERSTRIPPING, NON-REMOVABLE PIN HINGES, THERMAL BREAK ALUMINIUM THRESHOLD, AND VINYL DOOR BOTTOM. SECTION 08130 - STANDARD FRAMES 1. SET FRAMES IN ACCORDANCE WITH SDI 105, PLUMB, ALIGN, AND BRACE SECURELY UNTIL PERMANENT ANCHORS ARE SET. PROVIDE SOLID BLOCKING AT NOT MORE THAN 16 INCHES O.C. FOR EACH JAMB. POSITION BLOCKINGS TO OCCUR BEHIND HINGES AND LOCK STROKES. DOUBLE WEDGE FRAMES AND FASTEN WITH FINISHING NAILS. SET NAILS FOR PUTTY STOPPING. ANCHOR BOTTOMS OF FRAMES WITH EXPANSION BOLTS OR POWDER-ACTUATED FASTENERS. BUILD IN OR SECURE WALL ANCHORS TO ADJOINING CONSTRUCTION. SECTION 08131 - FRAME ANCHORS 1. PROVIDE ANCHORS TO SECURE THE FRAME TO ADJOINING CONSTRUCTION. PROVIDE STEEL ANCHORS, ZINC COATED OR PAINTED WITH RUST INHIBITIVE PAINT, NOT LIGHTER THAN 1/8 GAGE. 2. PROVIDE AT LEAST THREE WALL ANCHORS FOR EACH JAMB. FOR FRAMES, WHICH ARE MORE THAN 7.5 FEET IN HEIGHT, PROVIDE ONE ADDITIONAL ANCHOR FOR EACH JAMB FOR EACH ADDITIONAL 2.5 FEET OR FRACTION THEREOF. 3. PROVIDE FLOOR ANCHORS DRILLED FOR 1/2 INCH ANCHOR BOLTS AT BOTTOM OF EACH JAMB MEMBER. SECTION 08140 - DOOR FINISHES 1. SUBMIT FINISH SAMPLES WHERE COLORS ARE NOT INDICATED. SUBMIT MANUFACTURER'S STANDARD COLORS AND PATTERNS FOR OWNER'S SELECTION AND APPROVAL.

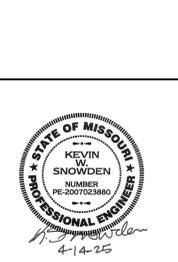
GENERAL CONTRACTOR RESPONSIBILITY

SCOPE OF WORK FOR ALL DISCIPLINES ITEMS TO INCLUDE IN YOUR BID IF NOT ALREADY NOTED ON PLANS: • INCLUDE LABOR IN JOB TO COMPLETE YOUR SCOPE OF WORK IN THE TIME ALLOWED BY FIELD SUPERINTENDENT. • PANEL EDGES ON THE EXTERIOR WHERE TWO PANELS MEET WILL HAVE A CHAMFERED EDGE. • ANY IMPERFECTIONS IN PANELS THAT ARE EXPOSED TO OUTSIDE OF BUILDING WILL EITHER BE REPAIRED OR SO THAT THEY WILL NOT SHOW AFTER FINISH SYSTEM. • CONTRACTOR TO CAULK A LINE ON PANELS BEFORE LIFTING AT DECK BEARING ELEVATION TO CHECK THAT ALL EMBEDS ARE AT PROPER HEIGHTS. • ALL CURBS ARE TO BE POURED AS EITHER A CURB AND GUTTER, OR MONOLITHIC WITH PARKING. CURBS MUST BE FORMED TO ENSURE A UNIFORM SHAPE. • CONTRACTOR TO FURNISH OWNER WITH A SCHEDULE OF WORK TO ENSURE IT MEETS OUR SCHEDULE AND FOR THE SCHEDULING OF OTHER TRADES. • LOADING DOCK WALLS AND LIGHT POLE BASES WILL BE HAND RUBBED TO A TEXTURE FINISH AS TO NOT SHOW ANY DEFECTS. • CONTRACTOR IS RESPONSIBLE FOR ANY PRICE INCREASE OR OTHER CHARGES INCURRED TO MAINTAIN THE SCHEDULE OF THIS PROJECT. THESE CHARGES WILL NOT BE PASSED ON TO OWNER. • CONTRACTOR WILL BE RESPONSIBLE FOR PUMPING OF WATER THAT MIGHT BE TRAPPED IN BLOCK OUTS FOR COLUMNS, LOADING DOCK OR STORM DRAINS UNTIL THEY HAVE COMPLETED THEIR WORK IN THOSE AREAS. • CONTRACTOR TO PAY FOR ALL DRILLING OF PIERS, PUMPING OF CONCRETE, OR THAT OF ANY OTHER SPECIAL EQUIPMENT USED TO COMPLETE THEIR CONTRACT. • CONTRACTOR TO INSTALL ALL ANCHOR BOLTS FOR LIGHT POLES. • ALL FINISHES AND TOLERANCES ARE TO BE AS SPELLED OUT IN SPEC. BOOK OR DRAWINGS. • CONTRACTOR TO SUPPLY AND APPLY A RELEASING COMPOUND WHERE PANELS ARE POURED ON SLAB. THIS IS TO BE APPLIED HEAVY ENOUGH TO ENSURE THAT PANELS WILL NOT STICK. IF COST IS INCURRED DUE TO PANELS NOT BEING STRETCHED, NICKED, OR CUT, CARBLES IS NOT TO BE STRETCHED, NICKED, OR CUT. CARBLES IS TO BE BOLDED UP AND TAPED INSIDE OF UNIT. • WIRE EXHAUST FAN FOR RESTROOMS AND CONFIRM VOLTAGE WITH PLUMBING CONTRACTOR. • PROVIDE A SEPARATE EXTERIOR LIGHTING, POWER POLE AND CEILING PLUGS ARE TO BE CONNECTED TO THE I.C.P. THEN ROUTED BACK TO APPROPRIATE BREAKER PANEL. • TEMPORARY LIGHTING AS NEEDED FOR CONSTRUCTION PURPOSES. • IDENTIFY AND MARK ALL SERVICE GEAR AND PANELS WITH TYPED PRINT. • RENTAL EQUIPMENT • ELECTRICAL PERMIT • IDENTIFY ELECTRICAL SERVICE AND METER SUPPLYING POWER TO FACILITY. • ALL SENSOR AND COMMUNICATION CABLES SHALL BE PULLED THROUGH 1" CONDUIT INTO R.T.U.'S. CABLES ARE NOT TO BE STRETCHED, NICKED, OR CUT. 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NEW BUILDING FOR:
LS MANAGEMENT SERVICES, LLC
 LEE'S SUMMIT, MO



SNOWDEN ENGINEERING
 STRUCTURAL CONSULTANTS
 MISSOURI C.A. #2008029278
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ISSUE DATE	
PROJECT NO.	241098
DATE	04.14.2025
DRAWING TITLE	NOTES AND DETAILS
SHEET NO.	S2.1

SPECIAL INSPECTIONS

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3A.	X	---
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X

REQUIRED SPECIAL INSPECTIONS OF FABRICATED STEEL	CONTINUOUS	PERIODIC
1. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING CODE OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	X	---

REQUIRED SPECIAL INSPECTIONS OF WOOD CONSTRUCTION	CONTINUOUS	PERIODIC
1. INSPECTION OF WOOD FRAMING FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.	X	---

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

GENERAL STRUCTURAL NOTES

- FOUNDATIONS**
- FOOTING DESIGNS ARE BASED UPON A SOIL BEARING VALUE OF 1,000 POUNDS PER SQUARE FOOT PER GEOTECHNOLOGY, LLC, PROJECT NO. J039991.01 DATED SEPTEMBER 22, 2022.
 - REINFORCING STEEL TO MEET A.S.T.M. SPECIFICATION A-615, LATEST REVISION, GR 60.
 - PROVIDE #4 REBAR AT 24" O.C. EACH WAY FOR ALL CONCRETE SLABS ON GRADE UNLESS OTHERWISE NOTED. PLACE REBAR IN UPPER 1/3 OF CONCRETE SLAB.
 - ALL WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST WALLS. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
 - C.J. INDICATES 1/2" DEEP SAW CUT CONTROL JOINT OR CONSTRUCTION JOINT.
 - PROVIDE CORNER BARS FOR ALL CONTINUOUS HORIZONTAL REINFORCING.

- CONCRETE**
- CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 LBS./SQ. INCH AT END OF 28 DAYS. ALL EXTERIOR FLATWORK TO BE 3500 LBS./SQ. INCH AND HAVE AN AIR-ENTRAINING ADMIXTURE.

- WOOD**
- SAWN LUMBER FRAMING MEMBERS ARE TO BE DOUGLAS FIR-LARCH; #2 OR BETTER FOR BEAMS, JOISTS, RAFTERS AND WALL STUDS.
 - LVL (LAMINATED VENEER LUMBER) IS TO BE MICROLAM OR PARALLAM, AS MANUFACTURED BY TRUSJOIST WEYERHAEUSER, OR APPROVED EQUAL. FOR ALL MANUFACTURED WOOD PRODUCTS, INSTALLATION IS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS - INCLUDING, BUT NOT LIMITED TO, BRIDGING, BLOCKING AND FASTENING OF MULTIPLE MEMBER UNITS. MULTIPLE LVL MEMBERS MAY BE INSTALLED AS SINGLE, FULL WIDTH MEMBERS WHERE AVAILABLE, AND WHERE DETAILING PERMITS.
 - TYPICAL WALL STUDS TO BE AS FOLLOWS, EXCEPT WHERE NOTED OTHERWISE: 2x4/2x6 AT 16" O.C. - REF. ARCHITECTURAL FOR LOCATION.
 - PROVIDE MULTIPLE STUDS AT BEARING POINTS FOR MULTIPLE MEMBER JOISTS OR BEAMS, I.E. TRIPLE STUD AT TRIPLE MEMBER BEAM, UNLESS OTHERWISE NOTED. MULTIPLE STUDS TO CARRY DOWN TO FOUNDATION. PROVIDE OTHER ADDITIONAL STUDS WHERE NOTED ON DETAILS OR PLANS.
 - MINIMUM NAILING SHALL COMPLY WITH TABLE 2304.10.1 OF THE INTERNATIONAL BLDG. CODE. ALL NAILS SHALL BE COMMON WIRE NAILS. PRE-DRILL HOLES AS REQUIRED TO PREVENT SPLITTING.
 - ALL BOLTS SHALL BE GALVANIZED. BOLT HOLES SHALL BE 1/16" LARGE DIAMETER THAN NOMINAL SIZE OF BOLT USED. RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
 - STANDARD GALVANIZED CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD.
 - DO NOT BORE OR NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ARCHITECT'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR BEARING AND SHEAR WALLS SHALL NOT EXCEED 1/3 THE PLATE, OR STUD WIDTH, USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.
 - PROVIDE STEEL CONNECTORS (SIMPSON OR APPROVED EQUIVALENT) AS REQUIRED, BASED ON MEMBER SIZES AND DESIGN LOADS SHOWN.
 - ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
 - WOOD TRUSSES SHALL BE HANDLED, INSTALLED AND BRACED PER TRUSS PLATE INSTITUTE DOCUMENT HIB-91 RECOMMENDATIONS.

- MISCELLANEOUS**
- PROVIDE CONTROL JOINTS @ 30'-0" O.C. (MAX.) IN INTERIOR GYPSUM BOARD WALLS.

METAL BUILDING DESIGN CRITERIA

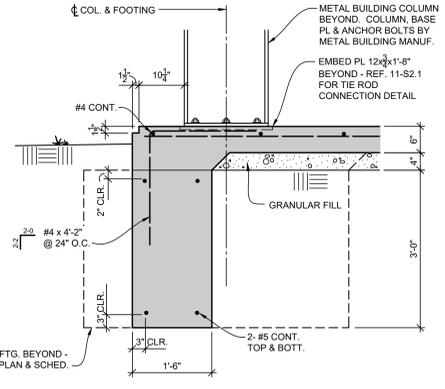
- FOOTING DESIGNS ARE BASED ON ESTIMATED COLUMN LOADS. COLUMN BASES SHALL BE ASSUMED TO BE PINNED UNLESS APPROVED BY THE ENGINEER. FOOTINGS WILL BE REVIEWED AND REVISED IF NECESSARY UPON RECEIPT OF FINAL COLUMN REACTIONS.
- PRE-ENGINEERED STEEL BUILDING DESIGN AND MATERIAL PROVIDED SHALL INCLUDE ALL BEAMS, COLUMNS, AND OTHER FRAMING MEMBERS REQUIRED TO ASSURE A COMPLETE JOB.
- PROVIDE SUPPORT AND SUPPLEMENTARY FRAMING AS REQUIRED FOR ALL STRUCTURE MOUNTED EQUIPMENT.
- DRIFT AND DEFLECTION TO BE WITHIN IBC STANDARDS FOR THE STRUCTURE.
- DESIGN CRITERIA:

CODE
 2018 INTERNATIONAL BUILDING CODE

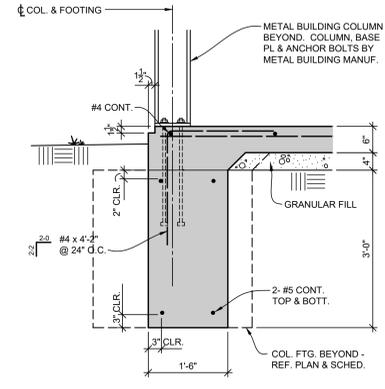
ROOF LIVE LOAD	20 PSF
COLLATERAL LOAD	6 PSF
GROUND SNOW LOAD	20 PSF

WIND LOAD
 110 MPH, EXPOSURE C

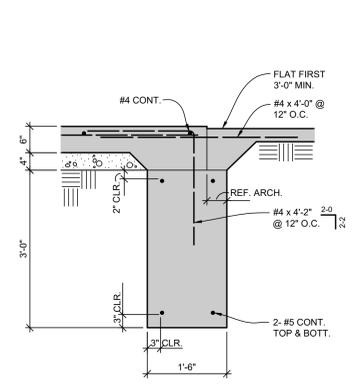
SEISMIC
 Ss = 0.08
 S1 = 0.068
 SITE CLASS = D
 S.D.C. = B



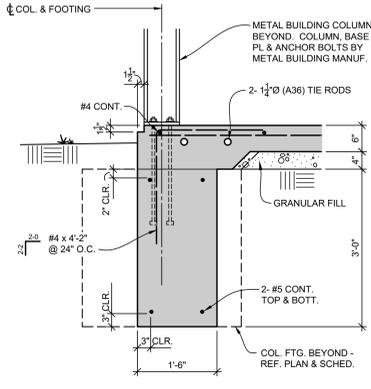
1 FOUNDATION SECTION
 3/4"=1'-0"



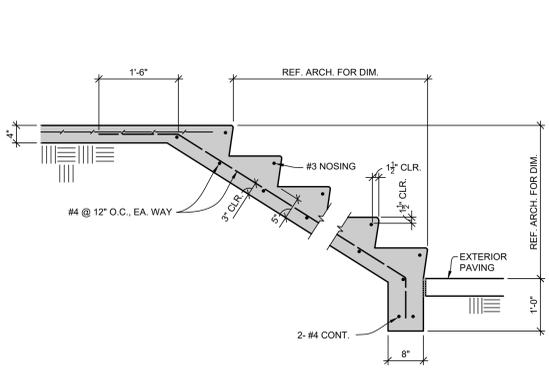
2 FOUNDATION SECTION
 3/4"=1'-0"



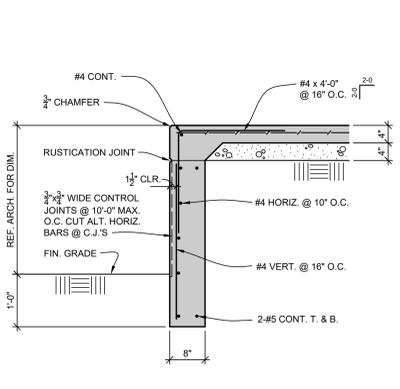
3 FOUNDATION SECTION AT DOOR
 3/4"=1'-0"



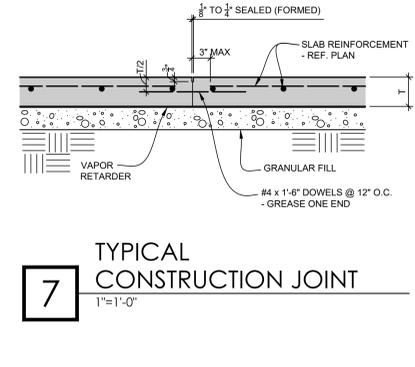
4 FOUNDATION SECTION
 3/4"=1'-0"



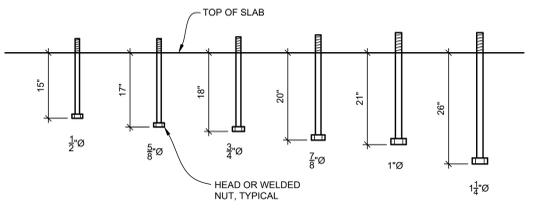
5 EXTERIOR STAIR
 3/4"=1'-0"



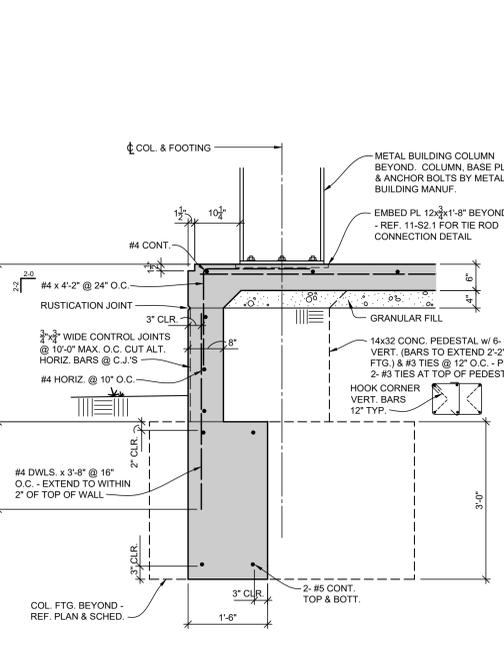
6 FOUNDATION SECTION
 3/4"=1'-0"



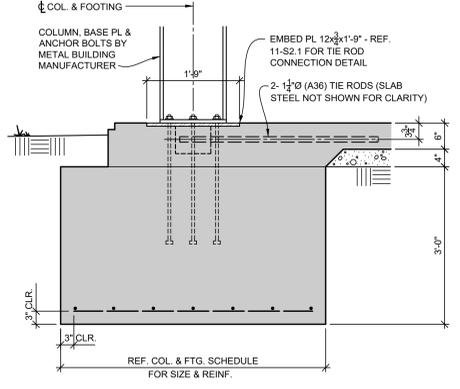
7 TYPICAL CONSTRUCTION JOINT
 1"=1'-0"



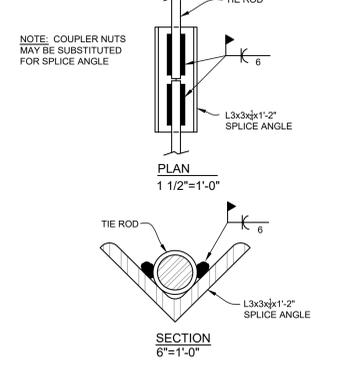
14 ANCHOR BOLT DIAGRAM (METAL BUILDING COLUMNS)
 NO SCALE



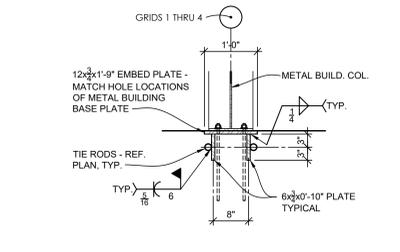
8 FOUNDATION SECTION
 3/4"=1'-0"



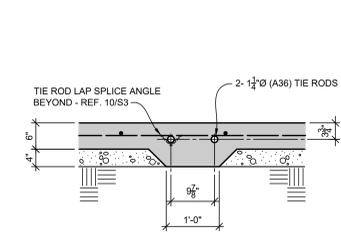
9 FOUNDATION SECTION
 3/4"=1'-0"



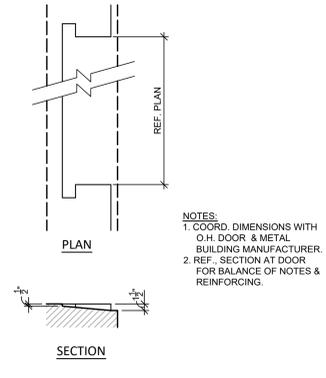
10 TIE ROD SPLICE DETAIL
 AS NOTED



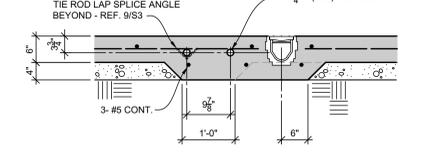
11 TYPICAL TIE ROD TO COLUMN CONNECTION
 3/4"=1'-0"



12 THICKENED SLAB AT TIE RODS
 3/4"=1'-0"



13 SLAB STEP AT OVERHEAD DOOR
 3/4"=1'-0"



15 THICKENED SLAB AT TIE RODS AND TRENCH DRAWIN
 3/4"=1'-0"

FOOTING SCHEDULE

MARK	F1	F2	F3	F4
FOOTING	10'-6"x10'-6"x3'-0" DP. w/ 13-#5 x 10'-0" EA. WAY, BOT.	9'-0"x9'-0"x3'-0" DP. w/ 12-#5 x 8'-6" EA. WAY, BOT.	7'-6"x7'-6"x3'-0" DP. w/ 10-#5 x 7'-0" EA. WAY, BOT.	3'-0"x3'-0"x3'-0" DP. w/ 4-#5 x 2'-6" EA. WAY, BOT.

NEW BUILDING FOR:
LS MANAGEMENT SERVICES, LLC
STREET ADDRESS TBD
LEE'S SUMMIT, MO



ISSUE DATE
ADDENDUM 2 - 05.15.2025

PROFESSIONAL OF RECORD
STATE OF MISSOURI
MATTHEW RAPP
ARCHITECT
NO. 420808001

DATE: 05.15.2025

ARCHITECT: RAPP
PROJECT NO.: 24-034
DATE: 05.15.2025
DRAWING TITLE: FIRST FLOOR PLAN
SHEET NO.: A1.1

GENERAL PLAN NOTES

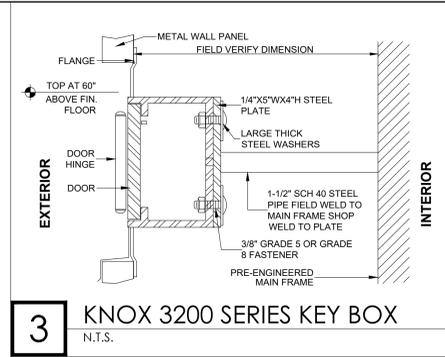
- ALL DIMENSIONS TO FACE OF STUD, CENTER OF DOOR OR CENTER OF WINDOW, UNO.
- ALL EXTERIOR WALLS PREENGINEERED METAL BUILDING WALLS. OFFICE AREA WALLS AT EXTERIOR HAVE 3-5/8" METAL STUD FURRING ON THE INSIDE OF THE WALL, UNLESS NOTED OTHERWISE. REFER TO SECTIONS/NOTES.
- ALL INTERIOR WALLS ARE SHOWN AS 6" AND 3-5/8" MTL STUD FRAMING, PER PARTITION TYPE INDICATED.
- INTERIOR PLUMBING WALLS SHOWN AS 6" MTL STUD FRAMING.
- ALL FURNITURE SHOWN WILL BE PROVIDED BY OWNER. SHOWN FOR REFERENCE ONLY.
- CONTRACTOR SHALL PROVIDE ANY CODE REQUIRED ROOM SIGNAGE OR TACTILE SIGNAGE FOR PUBLIC BUILDINGS.

FIRE LEGEND

F1 WALL HUNG FIRE EXTINGUISHER MOUNTED WITH HANDLE 48" AFF.

F2 FIRE EXTINGUISHER IN SEMI RECESSED WALL CABINET.

ALL FIRE EXTINGUISHERS SHALL BE MOUNTED AT 48" MAX FROM FINISH FLOOR. PROVIDE CLEAR SPACE OF 30" WIDE AND 48" DEEP IN FRONT OF UNIT.



3 KNOX 3200 SERIES KEY BOX
N.T.S.

4 NOT USED
3/4" = 1'-0"

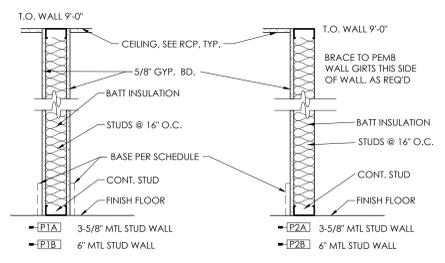
5 NOT USED
1/2" = 1'-0"

INTERIOR NON-LOAD BEARING STUD SCHEDULE:
FULLY SHEATHED OR BRIDGED @ 48" O.C. ONE SIDES
GENERAL STUD SELECTION GUIDELINES UNLESS OTHERWISE NOTED. CONFIRM SIZES WITH MFR. STUDS

HEIGHT:	3-5/8" STUDS @ 16" O.C.	GAUGE:	HEIGHT:	6" STUDS	GAUGE:
12'-10"	3625162-33	20	14'-9"	6005162-33	20
14'-0"	3625162-43	18	15'-11"	6005162-43	18
15'-4"	3625162-54	16	17'-3"	6005162-54	16
17'-0"	3625162-68	14	18'-11"	6005162-68	14
20'-4"	3625162-97	12	22'-3"	6005162-97	12

INTERIOR NON-LOAD BEARING STUD SCHEDULE:
FULLY SHEATHED OR BRIDGED @ 48" O.C. BOTH SIDES
GENERAL STUD SELECTION GUIDELINES UNLESS OTHERWISE NOTED. CONFIRM SIZES WITH MFR. STUDS

HEIGHT:	3-5/8" STUDS @ 16" O.C.	GAUGE:	HEIGHT:	6" STUDS	GAUGE:
17'-6"	3625162-33	20	26'-0"	6005162-33	20
19'-1"	3625162-43	18	28'-4"	6005162-43	18
20'-5"	3625162-54	16	30'-4"	6005162-54	16
21'-10"	3625162-68	14	32'-7"	6005162-68	14
24'-1"	3625162-97	12	36'-1"	6005162-97	12

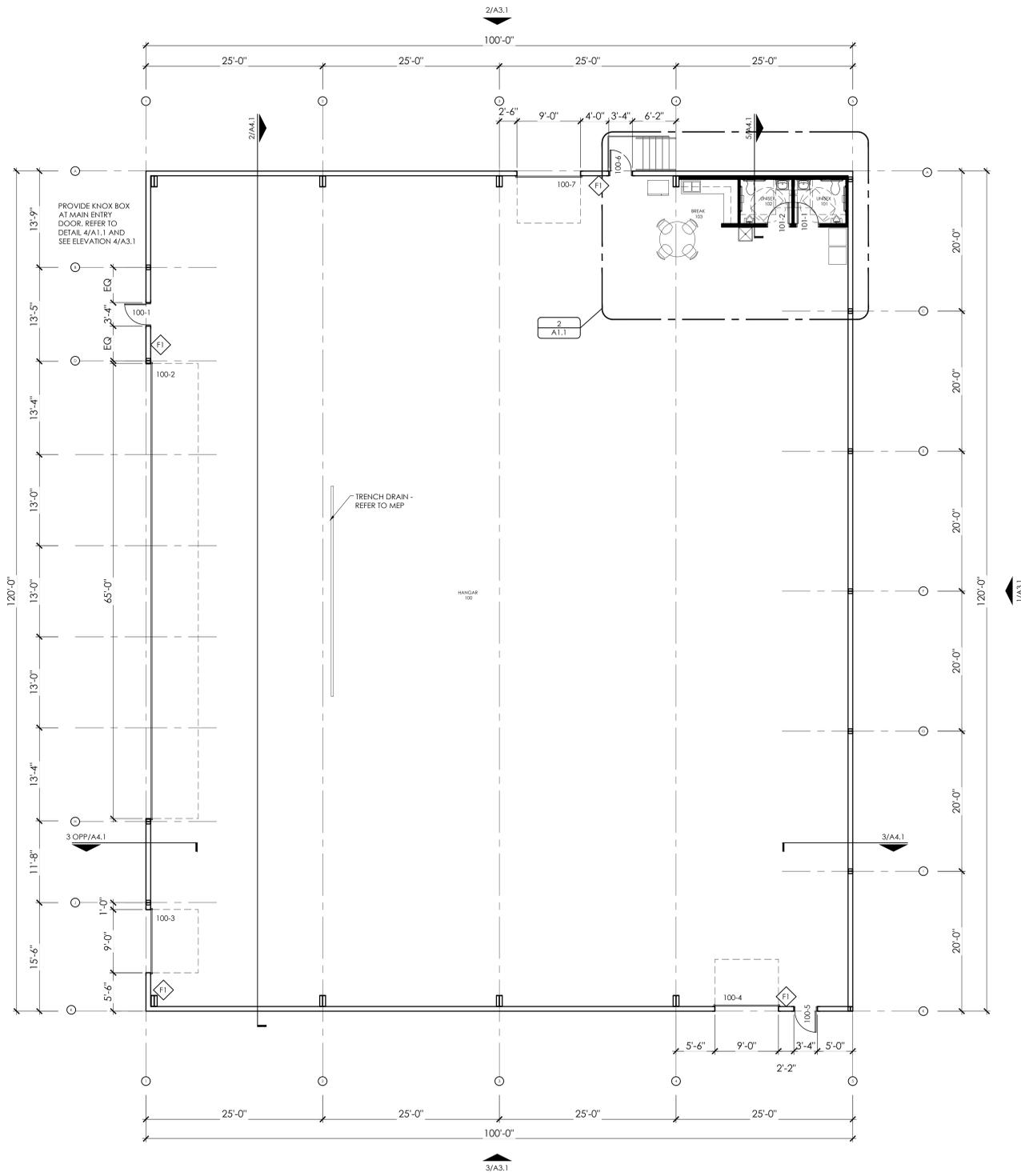


GENERAL PARTITION NOTES:

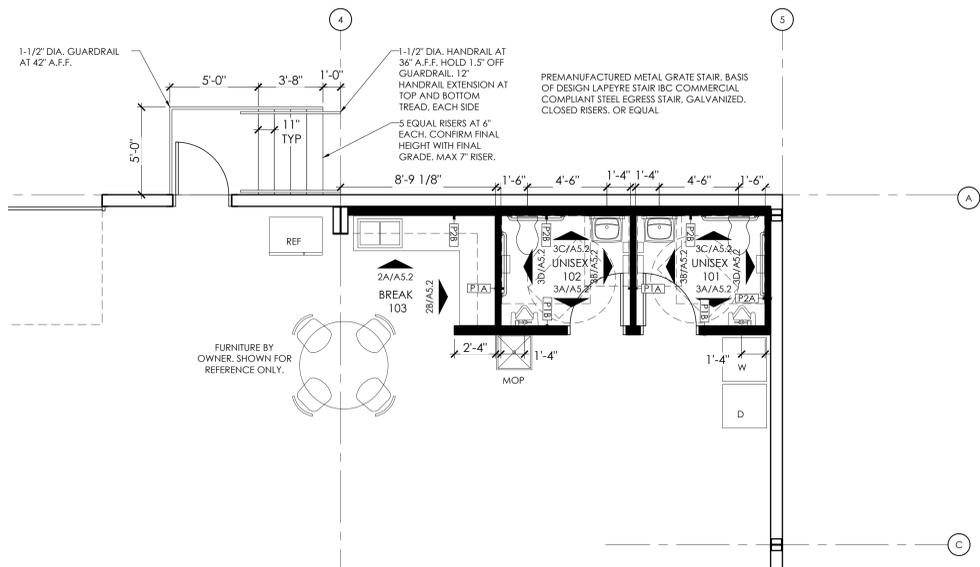
- ALL JANITORS CLOSETS, TOILET ROOMS, OR OTHER WET AREAS SHALL HAVE WATER RESISTANT GREEN GYPSUM BOARD ON ALL INTERIOR FACES OF PLUMBING WALLS.
- BATT INSULATION SHALL BE INSTALLED AT PARTITION TYPES DENOTED ON THE FLOOR PLAN WITH A [I] SYMBOL.
- ALL EXTERIOR WALL BATT INSULATION SHALL BE AS THICK AS STUD WALL THICKNESS TO MAXIMIZE R VALUE. THIS NOTE SUPERSEDES ALL OTHER DRAWING NOTES FOR THE INDICATION OF BATT INSULATION.
- PROVIDE 1/2" PLYWOOD BACKING BETWEEN STUD FACE AND GYP BOARD IN MEN'S AND WOMEN'S RESTROOMS FOR PARTITIONS, ACCESSORIES, AND TRIM ATTACHMENTS. PROVIDE TYPICAL WALL BLOCKING FOR ALL RESTROOMS AS REQUIRED.
- PROVIDE FRP AT ALL MOP SINKS.

NOTE: FINISH AT THE MOP SINK, URINAL, AND WATER CLOSETS SHALL BE EPOXY PAINT. PAINT SHALL BE SW WATERBORNE PRE-CAT EPOXY, OR APPROVED EQUAL. PROVIDE MIN. 4" VINYL BASE.

6 PARTITION TYPES
N.T.S.



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



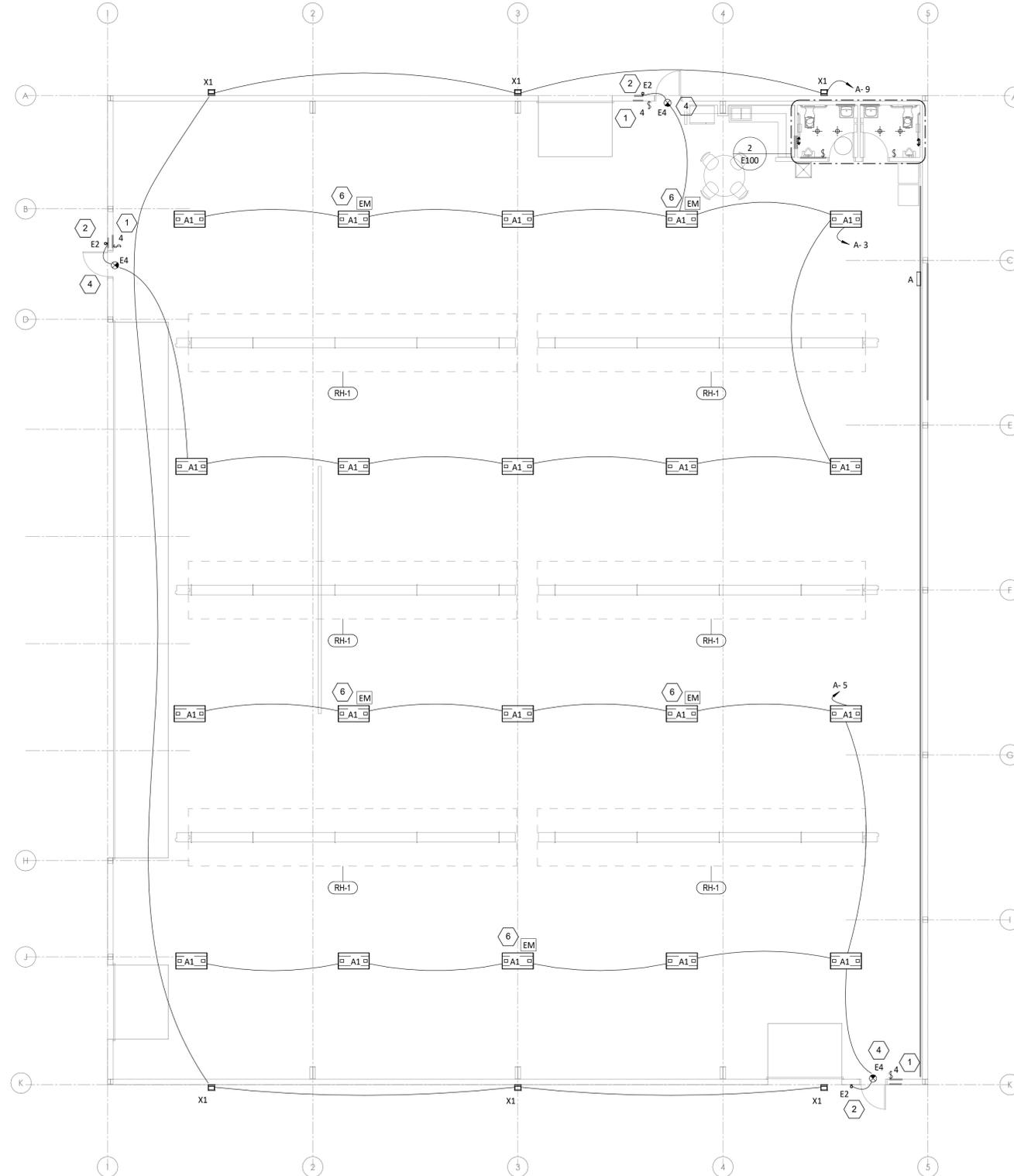
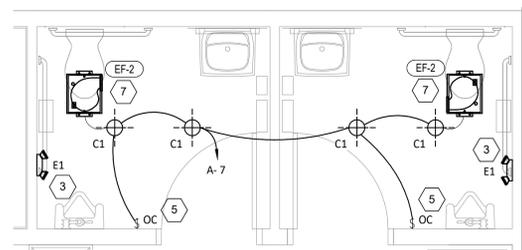
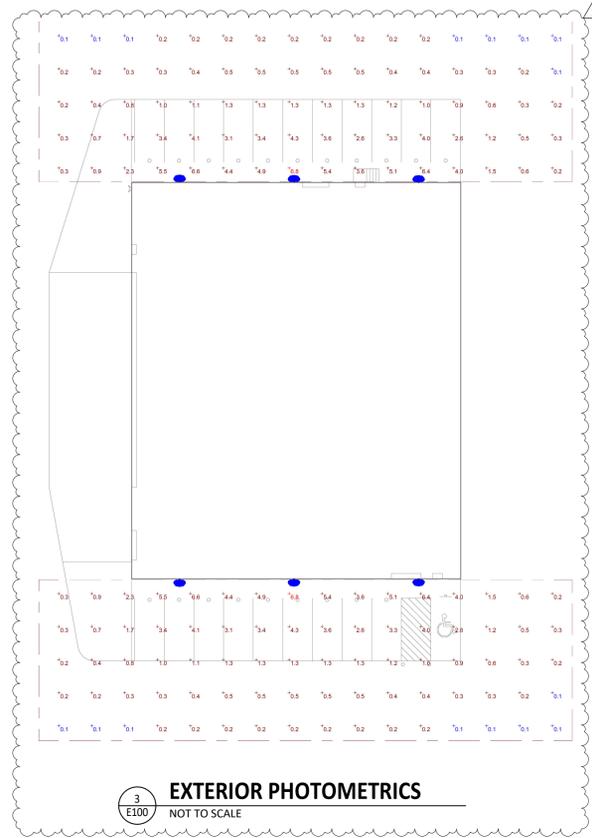
2 ENLARGED PLAN AT RESTROOM/BREAK AREA
1/4" = 1'-0"

ELECTRICAL LIGHTING PLAN NOTES

- 1 PROVIDE 4-WAY SWITCH FOR HIGH BAY HANGAR LIGHTING. VERIFY SWITCH LOCATIONS AND CONTROL ZONES WITH OWNER PRIOR TO INSTALL.
- 2 PROVIDE REMOTE EMERGENCY LIGHT MOUNTED AT 8'-0" AFF. COORDINATE EXACT LOCATION WITH OWNER AND CONCEAL LOW VOLTAGE WIRING TO INTERIOR EXIT SIGN.
- 3 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING. PROVIDE UNSWITCHED HOT TO FIXTURE, CIRCUITED AHEAD OF ALL LOCAL AND GLOBAL SWITCHING.
- 4 VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN.
- 5 INSTALL WALL-MOUNTED OCCUPANCY SENSOR AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
- 6 EMERGENCY LIGHT FIXTURE SHALL BE SWITCHED DURING NORMAL OPERATION. UPON LOSS OF POWER, FIXTURE SHALL BE ENERGIZED VIA THE EMERGENCY FIXTURE, ONBOARD EMERGENCY LIGHTING INVERTER.
- 7 INTERLOCK EXHAUST FAN OPERATION WITH RESTROOM LIGHTING.

LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	BASIS FOR DESIGN			REMARKS
						MANUFACTURER	MODEL	LAMP	
A1	20	MODULAR HIGH BAY	SUSPENDED	120 V	295 W	GH-4-L400-840-FA-UNIV	HE WILLIAMS	LED	COORDINATE MOUNTING HEIGHT WITH ARCHITECT. REFER TO E100 FOR FIXTURES THAT SHALL BE PROVIDED WITH AN EMERGENCY FEATURE. FIXTURES DENOTED WITH 'EM'.
C1	4	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
E1	2	EMERGENCY LIGHT - DUAL HEAD	WALL	120 V	2 W	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	WALL	4 V	1 W	EXITRONIX	MLED1-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	3	EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	WALL	120 V	2 W	EXITRONIX	CLED-U	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
X1	6	EXTERIOR WALL PACK	WALL	120 V	49 W	HE WILLIAMS	VWPH-L60-840-T3-SDGL	LED	MOUNT AT 15'-0". COORDINATE FINISH WITH ARCHITECT.



NEW BUILDING FOR:
LS MANAGEMENT SERVICES, LLC
STREET ADDRESS TBD
LEE'S SUMMIT, MO



Blanchard AE Group
1425 WAKARUSA DR. STE B
LAWRENCE, MO 64649
PH: 785-824-0300



112 S. Main St., Nixa, MO 65714 Ph: 417-724-8833
MATTHEW RAPP, ARCHITECT #A-200808021

REISSUE DATE
ADDENDUM 1 - 05/02/2025



ARCHITECT: RAPP
PROJECT NO.: 241121
DATE: 04/14/2025
DRAWING TITLE: ELECTRICAL LIGHTING PLAN
SHEET NO.: E100

NOTES

erecting shown and provided by the Metal Building Provider (MBP) for the building is required and shall be installed by the erector as a permanent part of the structure "Code of Standard Practice for Steel Buildings" in the ANSI/ASC 303-16; Section 7.10.1.

Temporary supports, such as gyps, braces, falsework, cribbing or other elements required for the erection operation shall be determined and furnished by the erector "Code of Standard Practice for Steel Buildings and Bridges" in the ANSI/ASC 303-16; Section 7.10.3.

Normal erection operations include the correction of minor misfits by moderate amounts of reaming, grinding, welding or cutting, and the drawing of elements into line through use of drift pipes. Errors which require major changes in the member configuration are to be reported immediately to the Metal Building Provider by the customer to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others "Code of Standard Practice for Steel Buildings and Bridges" in the ANSI/ASC 303-16; Section 7.14.1.

Erection tolerances are set forth in the "Code of Standard Practice for Steel Buildings and Bridges" in the ANSI/ASC 303-16; Section 7.13 note that individual members are considered during level and aligned if the deviation does not exceed 1/500. Variations in finished overall dimensions of structure steel framing are deemed within the limits of good practice when they do not exceed the cumulative effect of rolling, fabricating, and erection tolerances.

4.1. When crane support systems are part of the metal building system erection tolerances Section 6.8, Erection Tolerances, 2018 MBMA Metal Building Systems manual shall apply. To achieve the required tolerances grouting of the columns and shimming of the runway beams may be required. The customer shall provide groud if required. The contractor erecting the runway beams is responsible for shimming, plumbing, and leveling of the runway system. When aligning the runway beams the alignment shall be with respect to the beam webs so that the center of the aligned rail is over the runway web.

5. As a general rule field welding is not used to assemble a metal building system. In cases where the drawings indicate field welding and in cases where approved corrections are to be made by field welding the following requirements shall be met:

5.1. Welders must be qualified by an independent testing agency, with suitable documentation to AWS D1.1 Structural Welding Code - Steel or AWS D1.3 Structural Welding Code - Sheet as applicable, for the processes, positions, and materials involved.

5.2. All welds must be made in conformance to a documented and approved Welding Procedure Specification (WPS). All joints which are not prequalified must be supported by a certified Procedure Qualification Record (PQR) by an independent testing agency.

6. All documentation and records shall be the responsibility of the customer.

7. Any claims or shortages by buyer must be made to the Metal Building Provider within seven (7) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed. All claims should be directed to the Metal Building Provider's Customer Service Department.

8. Claims for correction of alleged misfits will be disallowed unless the Metal Building Provider shall have received prior notice thereof and allowed reasonable inspection of such misfits. Ordinary inaccuracies of shop work shall not be construed as misfits. No part of the building may be returned or charges assessed for alleged misfits without prior approval from the Metal Building Provider.

9. Neither the Metal Building Provider nor the customer will cut, drill or otherwise alter their work, or the work of other trades to accommodate other trades unless such work is clearly specified in the contract documents. Whenever such work is specified the customer is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop drawings "Code of Standard Practice for Steel Buildings and Bridges" in the ANSI/ASC 303-16; Section 7.15).

10. The Metal Building Provider Field Modifications Policy:

10.1. The Metal Building Provider will only be responsible for the field-modified parts designed and approved by the Metal Building Provider's Customer Service Department.

10.2. Any field modifications designed by third parties may not be approved by the Metal Building Provider and may limit the Metal Building Provider's warranty and liability.

10.3. The Metal Building Provider makes no warranty and hereby disclaims any responsibility with respect to the design, engineering, or construction of any field-modified parts performed by third parties.

11. WARNING - SOME PANELS AND TRIM PARTS ARE FURNISHED WITH A PROTECTIVE PEEL-OFF FILM. PARTS PROVIDED WITH THIS FILM CANNOT BE EXPOSED TO SUNLIGHT WITHOUT FIRST REMOVING THE FILM. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION. FILM MUST ALSO BE REMOVED FROM ALL NON EXPOSED PARTS WITHIN SIX MONTHS FROM FILM APPLICATION OR IRREPARABLE DAMAGE WILL OCCUR TO THE SURFACE CLAIMS WILL NOT BE ACCEPTED FOR THIS ISSUE.

RESPONSIBILITIES

- The Metal Building Provider Customer, hereafter referred to as the "customer," obtains and pays for all building permits, licenses, public assessments, zoning or utility pro role, utility connections, occupancy fees and other fees required by any governmental authority or utility in connection with the work provided for in the Contract Documents. The customer provides his expertise all plans and specifications required to obtain a building permit. It is the customer's responsibility to ensure that all plans and specifications comply with the applicable requirements of any governing building authorities.
- The customer is responsible for identifying all applicable building codes, zoning codes, or other regulations applicable to the Construction Project, including the Metal Building system.
- It is the responsibility of the customer to interpret all aspects of the End User's specifications and incorporate the appropriate specifications, design criteria, and design loads into the Order Documents submitted to the Metal Building Provider.
- It is the responsibility of the Metal Building Provider to furnish the metal building system to meet the specifications including the design criteria and design loads incorporated by the Contractor into the Order Documents. The Metal Building Provider is not responsible for making an independent determination of any local codes or any other requirements not part of the Order Document.
- The Metal Building Provider's standard specifications apply unless stipulated otherwise in the Contract Documents. The Metal Building Provider design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work on any other interpretations to the contrary not with standing, it is understood by both parties that the customer is responsible for clarifications or inclusions or exclusions from the Architectural plans.
- In case of discrepancies between the Metal Building Provider's structural steel plans and plans for other trades, the Metal Building Provider's shall govern ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC 303-16; Section 3.3).
- The customer is responsible for overall project coordination. All interface, compatibility and design considerations concerning any materials not furnished by the Metal Building Provider and the Metal Building Provider's steel system are to be considered and coordinated by the customer. Specific design criteria concerning this interface between materials must be furnished by the customer before fabrication or the Metal Building Provider's assumptions will govern.
- Foundations, anchor rods, and anchor rod embedment are designed, furnished, and set by the customer in accordance with an approved drawing. Dimensional accuracy shall satisfy the requirements of Section 7.5.1 of "Code of Standard Practice for Steel Buildings and Bridges" in the AISC 303-16.
- All other embedded items or connection members between the structural steel and the work of other trades are located and set by the customer in accordance with approved location on erection drawings. Accuracy of these items must satisfy the erection tolerance requirements.
- The Metal Building Provider does not investigate the influence of the metal building system on existing buildings or structures. The End Customer assures that such buildings and structures are adequate to resist snow drifts, wind loads, or other conditions as a result of the presence of the metal building system.

GENERAL SPECIFICATIONS

- Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels or cutting panels for framed openings not shown is prohibited. Oil-coming, a perceived weakness inherent to light gauge metal, may exist. This condition does not effect the structural integrity or the finish of the panel, and therefore is not a cause for rejection.
- The Metal Building Provider's red-oxide and gray-oxide primer are designed for short term field protection from exposure to ordinary atmospheric conditions.
- All bolts are 1/2" x 1-1/4" A307 unless noted. Refer to the erection drawings for specific framing connections and the cross-section(s) for main frame connections.
- Unless noted otherwise on the frame cross section(s), all bolted joints with ASTM F3125 Grade A325 bolts are specified as snug-tightened joints in accordance with the specification for Structural Joints Using High-Strength Bolts, June 11, 2020. Installation inspection requirements for Snug-Tight Bolts (Specification for Structural Joints Section 9.1) is suggested.
- Unless noted otherwise, all bolted connections are designed as bearing type connections with bolt threads not excluded from the shear plane. (Specification for Structural Joints, Section 9.1) is suggested.
- Any type of suspended or load inducing system(s) is prohibited if zero lateral and zero sprinkler loads are designated on the contract. This would include lights, duct work, piping, and insulation types other than 3" standard duty fiberglass blanket insulation, etc.

Notes on Drawings

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require separate support members within the roof system.

X-Braoing is to be installed to a taut condition with all slack removed. Do not tighten beyond this state.

This metal building system is designed as enclosed for the main building. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Formed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

The rigid frame at Line 1, is designed as a non-expandable rigid frame. Corresponding frame reactions are calculated based upon actual tributary area.

The framing designed by MBM is designed to support future lean-to (120'x100'x22'H.S.; 1:12) attached to rigid frame columns on grid line(A/-5). The lean-to assumed to be an enclosed bldg. The frames on lines 2,3,4 are lean to with modular column offset 40ft from low side of lean-to. The low on line 1 is lean to without bearing end wall columns. The raw on line 5 is lean to with bearing end wall column and with the following loading:

LE=20 psf
 Col=16psf
 The future expansion, and the framing designed by MBM are not designed for any mezzanine or crane loads from the future expansion.
 Framing at line A will not remain sheeted when future lean-to being added to the structure girts will be removed also.
 The framing designed by MBM is designed to support bi-fold door 65'x18' at low between line D to H.

BUILDING DESIGN CODES

IBC 18
 Building Code: AISC 360-16
 Steel Specification: AISC 3100-16
 Cold-Formed Specification: AISC 3100-16

GENERAL LOADS
 Roof Dead Load: 2.05 psf
 Roof Live Load: 6.00 psf
 Roof Collateral Load: 20.00 psf
 Tributory Live Load Reduction: Yes
 Rainfall Intensity (5-minute duration 5-year recurrence): 7.00 in/hr

WIND LOAD

Wind Speed (3-sec gust) Vlt: 110 mph
 Wind Speed (3 sec Gust), Vsd: 85 mph
 Serviceability Wind, Vserv: 76 mph
 Wind Exposure Category: C
 Wind Condition: Enclosed
 Internal Pressure Coefficient (ICP): 0.18, -0.18

SNOW LOAD

Ground Snow Load (Pg): 20.00 psf
 Roof Snow Load (P): 14.00 psf
 Snow Exposure Factor (Ce): 1.00
 Snow Load Importance Factor (Is): 1.00
 Thermal Factor (T): 1.00

DEFLECTION CRITERIA

Main Frames Lateral: H/60
 Main Frames Vertical: L/180
 Bearing Frame Rafter: L/180
 Endwall Columns: L/120
 W.F. (Horz): H/60

SEISMIC LOAD

Risk Category: II - Normal
 Seismic Importance Factor (Ie): 1.00
 Spectral Response Acceleration (Sa): 0.099
 Spectral Response Acceleration (S1): 0.068
 Site Class: d
 Spectral Response Coefficients (Sds): 0.1055
 Spectral Response Coefficients (Sd1): 0.1083
 Seismic Design Category: B

Other Loads:

-65'X18' BI-FOLD DOOR AT LEAN
 -FUTURE LEAN TO 120'X100'X22'H
 DL=2.05 PSF
 Col=6psf
 LL=20 psf/reducible

For components, cladding, and MWFRS, deflections involving wind are based on 10 year serviceability wind pressures.

ROOF PANEL

Profile: Super Span X Gauge: 26 Color: Light Stone
 ULS80 Class 90: Yes

WALL PANEL

Profile: Super Span X Gauge: 26 Color: Light Stone
 Built-Up & Ho-Rolled: Goy Oxide Primer

PRIMARY FRAMING

Built-Up & Ho-Rolled: Goy Oxide Primer

SECONDARY FRAMING

Purlins, Eave Struts: Pre-Galvanized
 Girts, Light Gauge Columns: Pre-Galvanized
 Light Gauge Jambos & Headers: Pre-Galvanized
 Hot-Dip Galvanizing conforms to the ASTM A123 specification.
 Pre-Galvanized members conform to the ASTM A653, Grade 50, Coating G-90 specification.

APPROVAL SPECIFICATIONS

- Approval of the Metal Building Provider drawings and/or calculations indicate that the Metal Building Provider has correctly interpreted the contract requirements. This approval constitutes the customer acceptance of the Metal Building Provider design, concepts, assumptions, and loadings.
- Failure to respond to clouded areas and areas to verify may result in additional costs and/or schedule delays for which the Metal Building Provider will not be responsible.
- Any changes made after the Metal Building Provider's customer has signed and returned the Metal Building Provider drawings and/or calculations and the project is released for fabrication shall be billed to the Metal Building Provider customer including material, engineering, and other costs. An additional fee may be charged if the project must be moved in the fabrication and/or the shipping schedule.
- It is the responsibility of the customer to field verify all existing conditions prior to fabrication.
- Be legible and unambiguous.
- Be made in contrasting ink.
- Have all instances of changes clearly indicated.
- A dated signature, in the designated areas, is required on all pages. The signature must be from the person authorized on the contract or a person authorized, in writing, by the Metal Building Provider customer.
- The Metal Building Provider reserves the right to resubmit drawings with extensive or complex changes required to avoid misfabrication. This may impact the delivery schedule.
- Any changes noted on the drawings are in conformance with the terms and requirements of the contract between the Metal Building Provider and its customer are not binding on the Metal Building Provider unless subsequently acknowledged and agreed to in writing by change order or separate documentation.
- Waiving the approval process by designating the order "For Production" supersedes notes 1,2,5,6, and 8 in this section, and constitutes the customer's acceptance of the Metal Building Provider's design, concepts, assumptions, and loadings.

DRAWING SCHEDULE

DMG NO.	ISSUE	DATE	DESCRIPTION
C1	P1	12/18/24	COVER SHEET PLAN
F1	0	12/18/24	ANCHOR BOLT PLAN
F2	0	12/18/24	ANCHOR BOLT DETAILS & SECTIONS
F3	0	12/18/24	ANCHOR BOLT REACTIONS
P1	P1	12/18/24	RIGID FRAME ELEVATION
P2	P1	12/18/24	RIGID FRAME ELEVATION
E1	P1	12/18/24	ROOF FRAMING PLAN
E2	P1	12/18/24	ROOF SHEETING PLAN
E3	P1	12/18/24	FRAME & SHEETING ELEVATION
E4	P1	12/18/24	FRAME & SHEETING ELEVATION
E5	P1	12/18/24	FRAME & SHEETING ELEVATION
E6	P1	12/18/24	FRAME & SHEETING ELEVATION
E7	P1	12/18/24	BUILDING SECTIONS
D1	P1	12/18/24	STANDARD DETAILS PAGE
D2	P1	12/18/24	STANDARD DETAILS PAGE
D3	P1	12/18/24	STANDARD DETAILS PAGE
D4	P1	12/18/24	STANDARD DETAILS PAGE

TRIM COLOR:

GUTTER:	Royal Blue	GAUGE:	26
RACK:	Royal Blue	GAUGE:	26
CORNER:	Royal Blue	GAUGE:	26
ACCESSORY:	Royal Blue	GAUGE:	26
DOWNSPOUT:	Royal Blue	GAUGE:	26
BASE:	Royal Blue	GAUGE:	26

ISSUE DATE DESCRIPTION BY CHK AM

PI	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM
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ISSUE DATE DESCRIPTION BY CHK AM

PI	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM
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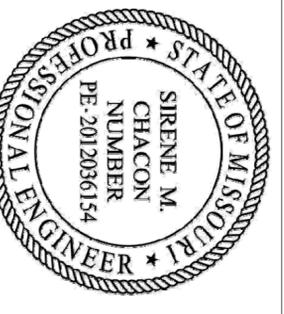
ISSUE DATE DESCRIPTION BY CHK AM

PI	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM
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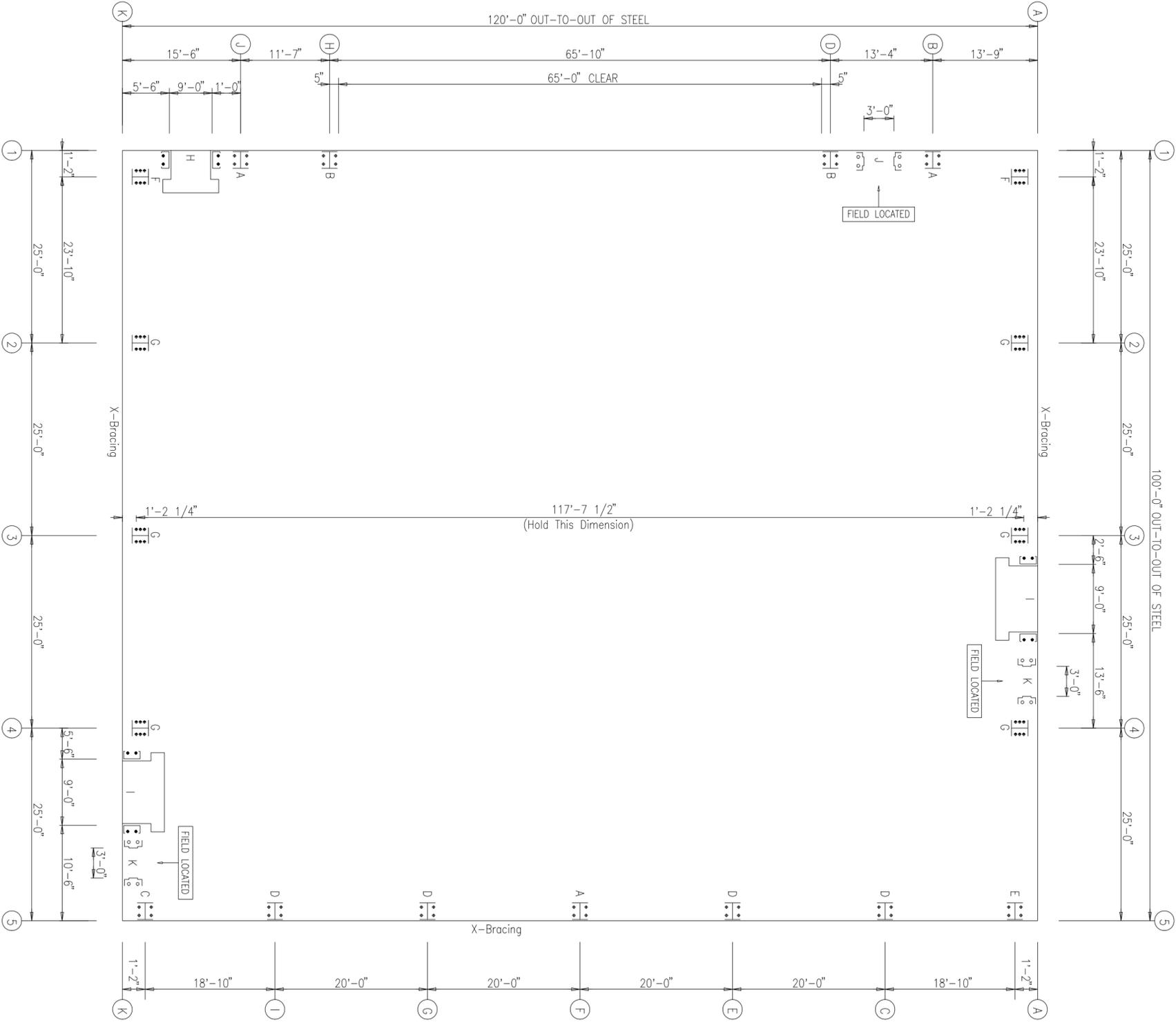
The Engineer, whose seal and signature appear on these documents represents that the design, drawings, and calculations were prepared by the Engineer or under the direct supervision and control of the Engineer, and that the Engineer is a duly licensed Professional Engineer in the State of Missouri. The Engineer's responsibility is limited to the design, drawings, and calculations shown on these documents and does not extend to the construction of the building.

PROJECT REFERENCE: US Management Hanger
 PROJECT LOCATION: Lee's Summit, MO 64064
 PROJECT NO.: 13227-36833
 DATE: 12/18/24
 ENGINEER: SIRENE M. CHACON
 LICENSE NO.: 2012036154



Sirene Chacon
 2024.12.20
 14:04:25-06'00'

SEE "F2" DWG FOR ANCHOR BOLT DETAILS & SECTIONS



ANCHOR BOLT PLAN
 NOTE: All Base Plates @ Finish Floor

DRAWING STATUS

FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the project description and the proposed construction. They are not to be used for construction.

FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. They are to be used for permit only and are not to be used for construction.

Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
0	12.18.24	FOR RECTOR INSTALLATION	DM	AM

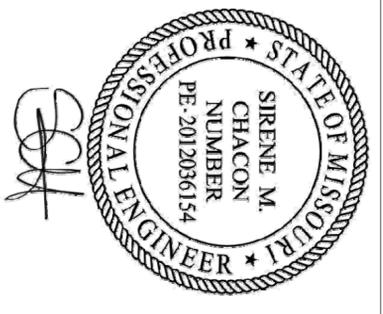
PROJECT REFERENCE: ANCHOR BOLT PLAN
 PROJECT LOCATION: Lee's Summit, MO 64064
 PROJECT NUMBER: 13322-36833

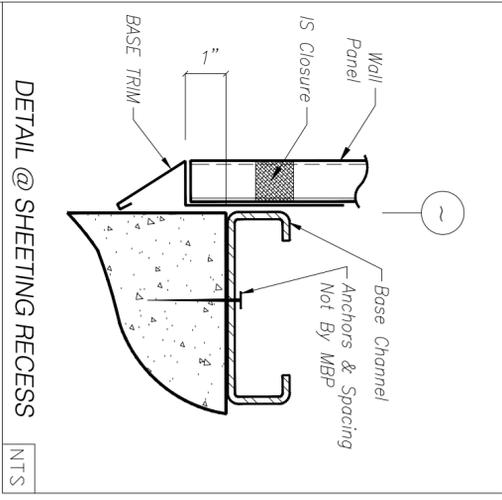
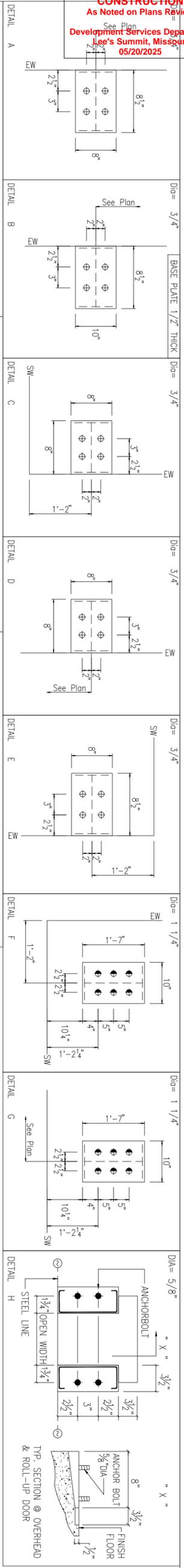
The Engineer whose seal and signature appear on these documents represents Midwest Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to the design and manufacture of Midwest Steel Buildings, Inc. products and shall not extend to other matters, including but not limited to the design of the building.

ANCHOR BOLT SUMMARY (GRADE 36)

Qty	Locate	Dia (in)	Type	Proj (in)
12	Jamb	5/8"	F1554	2.50
44	Endwall	3/4"	F1554	3.00
42	Wdr Door	1 1/2"	F1554	2.00

NOTE: PROJECTION BASED FROM BOTTOM OF BASE PLATE. ADJUSTMENTS SHOULD BE MADE FOR GROUT AND/OR LEVELING PLATES.





DRAWING STATUS

FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper representation of the proposed construction. Only drawings issued for approval are to be used for construction.

FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. Only drawings issued for permit may be used for construction.

Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
0	12.18.24	FOR RECTOR INSTALLATION	DM	AM

PROJECT REFERENCE: PROJECT DESCRIPTION: ANCHOR BOLT DETAILS & SECTIONS

CUSTOMER: LS Management Hanger

PROJECT REFERENCE: PROJECT DESCRIPTION: ANCHOR BOLT DETAILS & SECTIONS

CUSTOMER LOCATION: Peculiar, MO 64078

JOB SITE LOCATION: JOB SITE REFERENCE: JOB SITE: 2751 N.E. Douglas St, Lee's Summit, MO 64064

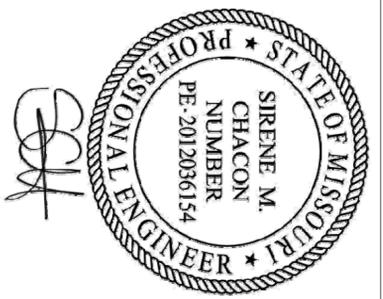
DATE: 12/18/24

ENG: AM

JOB NO: 13222-38833

ISSUE: 0

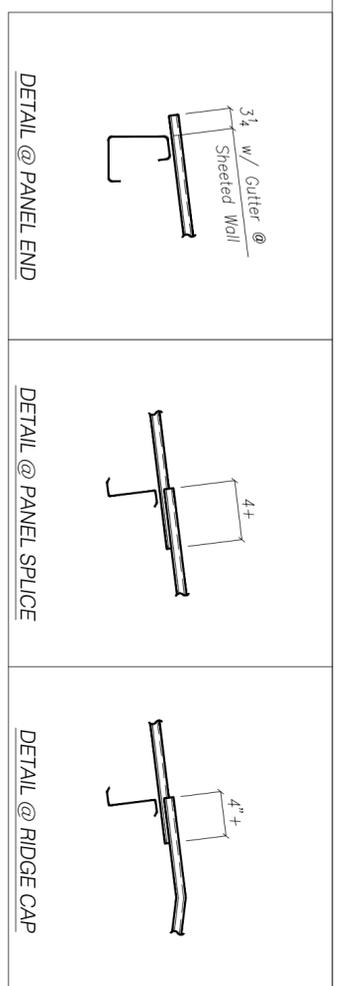
The Engineer, whose seal and signature appear on these documents represents Worldwide Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material design and manufacture by Worldwide Steel Buildings, Inc., and shall not extend to other matters, including, but not limited to, design and erection of the building.



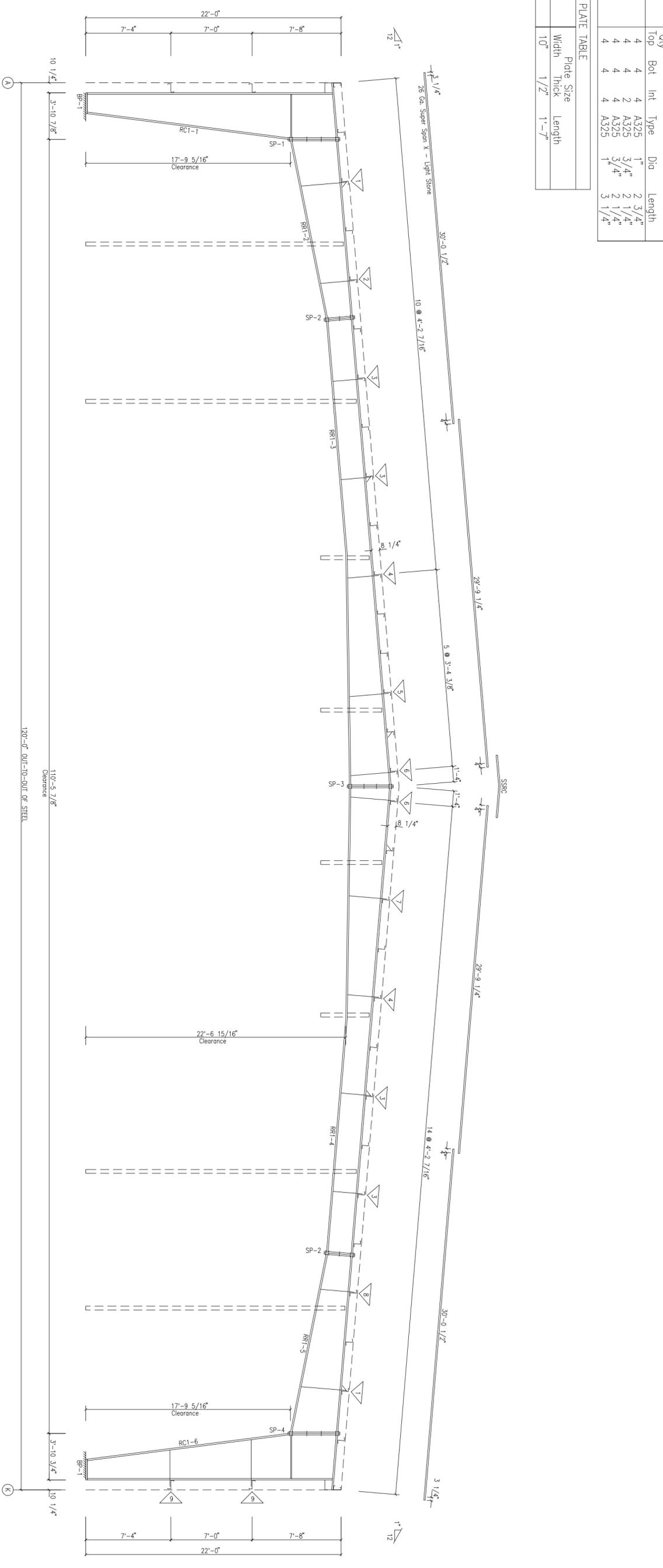
MARK	LENGTH	OFFSET	DETAIL	CLIP
FB18D	4'-10 1/2"	4'-0"	G26	AK226
FB18C	2'-11 5/8"	2'-4"	G26	AK226
FB2A	2'-8 3/4"	2'-4"	G26	AK226
FB3A	2'-9 1/4"	2'-4"	G26	AK226
FB11A	2'-9 1/4"	3'-0"	G26	AK226
FB15A	4'-1 1/8"	3'-0"	G26	AK226
FB8A	3'-2 5/8"	2'-4"	G26	AK226
FB5C	2'-11 3/4"	2'-4"	G26	AK226
FB10C	3'-6 1/2"	3'-0"	G26	AK227

SPlice Bolt TABLE	Qty	Top	Bot	Int	Type	Dia	Length
SP-1	4	4	4	4	A325	1"	2 3/4"
SP-2	4	4	4	4	A325	3/4"	2 1/4"
SP-3	4	4	4	4	A325	3/4"	2 1/4"
SP-4	4	4	4	4	A325	1"	3 1/4"

BASE PLATE TABLE	Col	Plate Size
BP-1	10"	1/2" 1'-7"



MEMBER TABLE	Mark	Web Depth	Start/End	Thick	Web Plate	Length	Outside Flange	Inside Flange
RC1-1		18.0/34.1	34.1/46.0	0.161	120.0	88.6	10 x 3/8" x 231.4	10 x 1/2" x 210.4
RR1-2		46.0/46.0	46.0/46.0	0.313	50.7	185.9	8 x 1/2" x 56.8	8 x 1/2" x 187.2
RR1-3		24.0/24.0	24.0/24.0	0.250	240.0	185.7	8 x 1/2" x 240.0	8 x 1/2" x 240.0
RR1-4		38.6/40.0	24.0/38.6	0.250	216.2	240.0	8 x 1/2" x 216.2	8 x 1/2" x 237.4
RR1-5		40.0/24.0	24.0/24.0	0.250	240.0	185.7	8 x 1/2" x 240.0	8 x 1/2" x 240.0
RR1-6		46.0/46.0	46.0/46.0	0.250	50.8	185.7	8 x 5/8" x 56.6	8 x 1/2" x 187.0
		34.1/18.0	18.0/34.1	0.161	120.0	88.5	8 x 1/4" x 231.4	8 x 1/2" x 210.3



RIGID FRAME ELEVATION: FRAME LINE 1

BOLT TIGHTENING (Snug-Tight)
All bolted joints with ASTM F3125 Grade A325 bolts are specified as Snug-Tightened Joints in accordance with the Specification of Structural Joints Using High-Strength Bolts, June 11, 2020, installation as given in Section 7.1 Washers are not required for Snug-Tightened Joints using standard standard size holes per Section 6.1 of the Specification

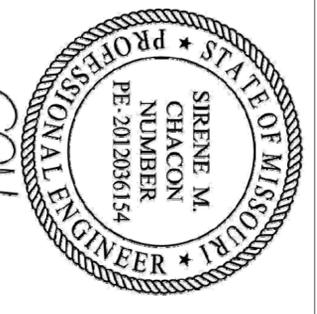
Pre-tensioning methods, including Turn-of-Nut, calibrated wrench, twist-off tension control bolts or direct tension indicator are not required. Installation inspection requirements for Snug-Tight Bolt is found in Section 9.1 of the Specification.

DRAWING STATUS	
<input type="checkbox"/>	FOR APPROVAL
<input checked="" type="checkbox"/>	FOR CONSTRUCTION PERMIT
<input type="checkbox"/>	FINAL DRAWING FOR CONSTRUCTION



ISSUE	DATE	DESCRIPTION	BY	CHK	PROJECT REFERENCE	PROJECT DESCRIPTION	PROJECT LOCATION	ISSUE
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM	US Management Hanger	US Management Hanger	Lee's Summit, MO 64064	P1

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MEMBER TABLE

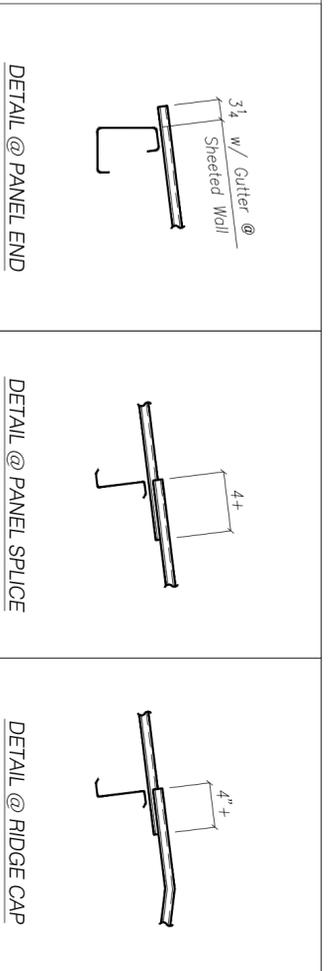
MARK	QTY	TOP	BOT	INTL	TYPE	DIA	LENGTH	CLIP
FB17C	4	-7	1/4"		3"-4"		G26	AK226
FB17C	2				3"-0"		G26	AK226
FB12C	3	-10	1/8"		2"-4"		G26	AK226
FB7A	3	-2	3/8"		2"-4"		G26	AK226
FB9A	3	-3	1/8"		3"-0"		G26	AK226
FB14A	4	-0	1/4"		3"-0"		G26	AK226
FB16A	4	-2	3/4"		3"-0"		G26	AK226
FB16A	3	-1	5/8"		2"-4"		G26	AK226
FB6C	3	-1	7/8"		2"-4"		G26	AK227
FB19C	5	-1	1/8"		4"-0"		G26	AK227

SPLICE BOLT TABLE

MARK	QTY	TOP	BOT	INTL	TYPE	DIA	LENGTH
SP-1	4	4	4	4	A325	1"	2 3/4"
SP-2	4	4	4	4	A325	3/4"	2 1/4"
SP-3	4	4	4	4	A325	2 1/4"	2 1/4"
SP-4	4	4	4	4	A325	3/4"	3 1/4"
SP-5	4	4	4	4	A325	1"	3 1/4"

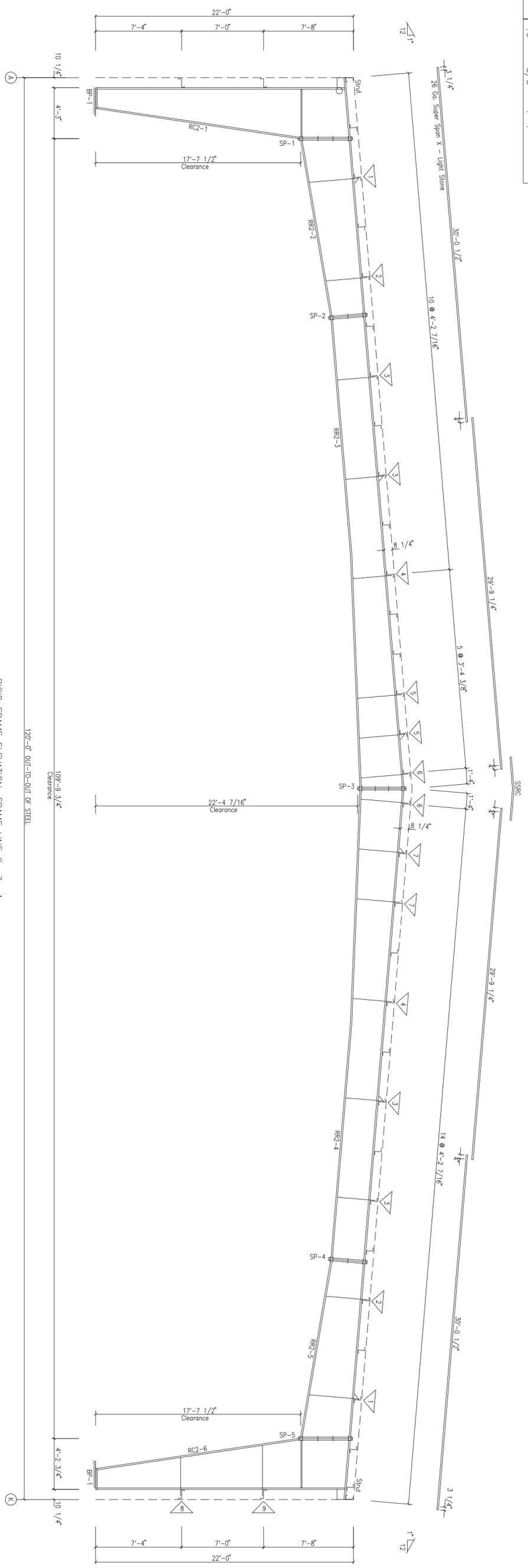
BASE PLATE TABLE

COL	MARK	PLATE SIZE	THICK	LENGTH
	BP-1	10"	5/8"	1'-7"



MEMBER TABLE

MARK	Web Depth	Start/End	Thick	Web Plate	Length	W x Thk x Length	Outside Flange	Inside Flange
RC2-1	18.0/50.0	50.0/50.0	0.250	206.7	52.8	10 x 3/8" x 231.3	10 x 1/2" x 121.4	10 x 5/8" x 87.7
RR2-2	48.0/32.1		0.250	182.3		8 x 1/4" x 178.3	8 x 5/8" x 62.5	
RR2-3	37.0/32.0		0.161	240.0		8 x 1/2" x 240.0	8 x 1/2" x 120.4	
RR2-4	37.0/42.0		0.250	240.0		8 x 1/2" x 240.0	8 x 1/2" x 240.0	
RR2-5	42.0/32.0		0.161	240.0		8 x 1/2" x 240.0	8 x 1/2" x 120.4	
RR2-6	32.0/48.0		0.250	182.2		8 x 1/4" x 178.1	8 x 5/8" x 62.4	
	50.0/50.0		0.313	52.8		8 x 5/8" x 60.7	8 x 1/2" x 209.1	
	50.0/36.6		0.250	86.7		8 x 1/4" x 24.0		
	36.6/18.0		0.184	120.0		8 x 1/4" x 231.3		



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

BOLT TIGHTENING (Snug-Tight)
All bolted joints with ASTM F3125 Grade A325 bolts are specified as Snug-Tightened Joints in accordance with the Specification of Structural Joints Using High-Strength Bolts, June 11, 2020, installation as given in Section 7.1 Washers are not required for Snug-Tightened Joints using standard standard size holes per Section 6.1 of the Specification
Pre-tensioning methods, including Turn-of-Nut, calibrated wrench, twist-off tension control bolts or direct tension indicator are not required. Installation inspection requirements for Snug-Tight Bolt is found in Section 9.1 of the Specification.

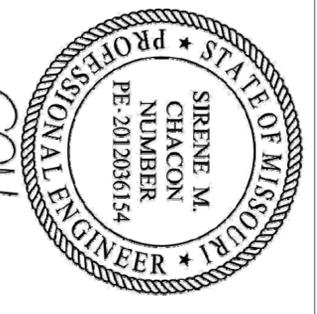
DRAWING STATUS

<input type="checkbox"/>	FOR APPROVAL	These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper construction of the project.
<input checked="" type="checkbox"/>	FOR CONSTRUCTION PERMIT	These drawings, being for permit, are by definition not final. They drawings, being for permit, are by definition not final. Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	PROJECT REFERENCE	PROJECT LOCATION	ISSUE
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM	PROJECT REFERENCE: US Management Hanger	PROJECT LOCATION: Peculiar, MO 64078	P1

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SPECIAL BOLTS

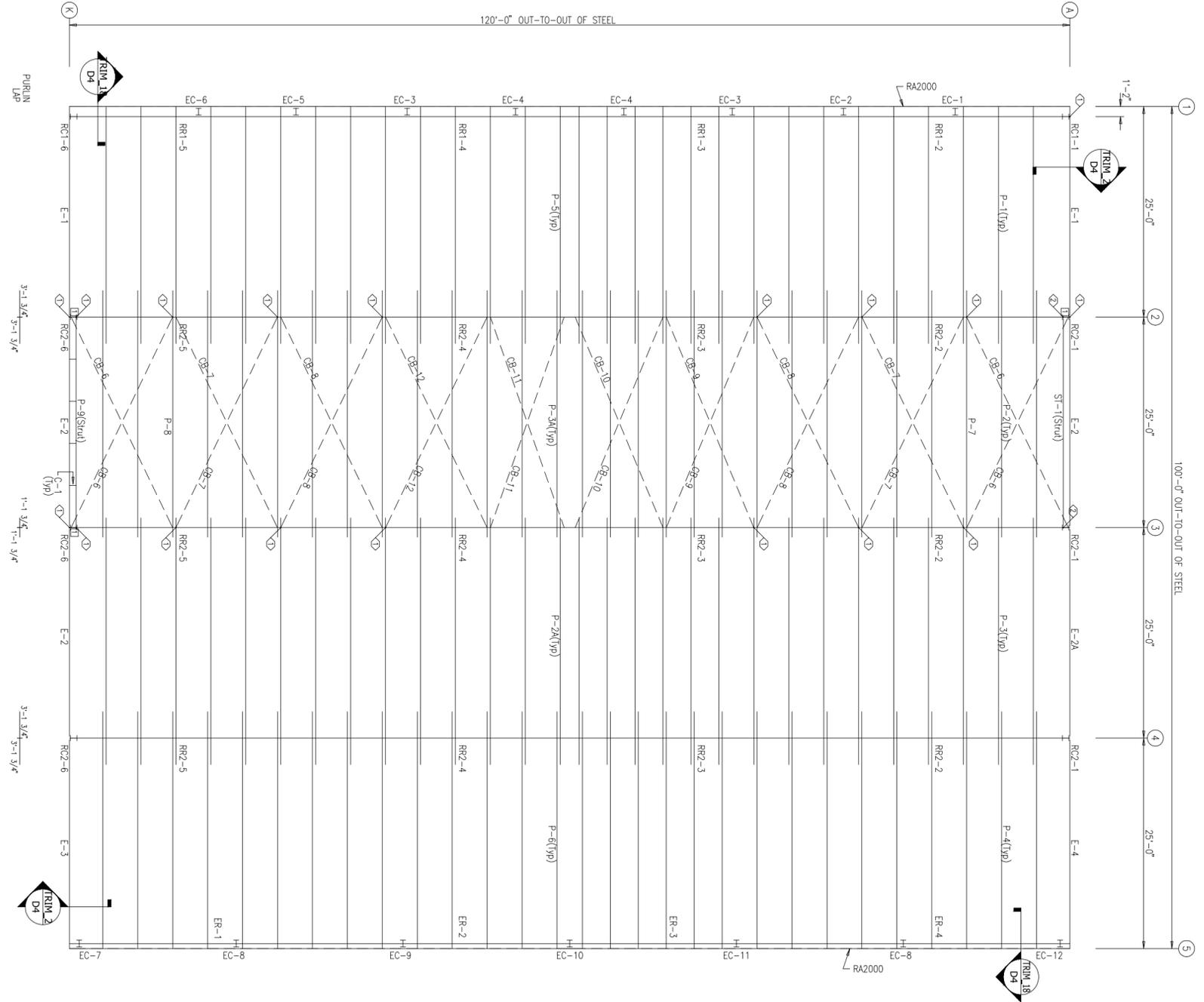
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	0
2	2	A325	5/8"	1 3/4"	0

MEMBER TABLE

MARK	PART	QUAN	TYPE	DIA	LENGTH	WASH
P-1	8X25Z14	4	A307	1/2"	1 1/4"	0
P-2	8X25Z14	4	A307	1/2"	1 1/4"	0
P-2A	8X25Z12	2	A325	5/8"	1 3/4"	0
P-3	8X25Z14	4	A307	1/2"	1 1/4"	0
P-3A	8X25Z12	2	A325	5/8"	1 3/4"	0
P-4	8X25Z12	2	A325	5/8"	1 3/4"	0
P-5	8X25Z12	2	A325	5/8"	1 3/4"	0
P-6	8X25Z12	2	A325	5/8"	1 3/4"	0
P-7	8X25Z12	2	A325	5/8"	1 3/4"	0
P-8	8X25Z12	2	A325	5/8"	1 3/4"	0
P-9	8X25Z16	2	A325	5/8"	1 3/4"	0
E-1	8ES141	4	A307	1/2"	1 1/4"	0
E-2	8ES141	4	A307	1/2"	1 1/4"	0
E-2A	8ES141	2	A325	5/8"	1 3/4"	0
E-3	8ES141	4	A307	1/2"	1 1/4"	0
E-4	8ES141	4	A307	1/2"	1 1/4"	0
ST-1	P0663280	1	A307	1/2"	1 1/4"	0
CB-6	0.50_CBL	4	A307	1/2"	1 1/4"	0
CB-7	0.50_CBL	4	A307	1/2"	1 1/4"	0
CB-8	0.38_CBL	4	A307	1/2"	1 1/4"	0
CB-9	0.31_CBL	4	A307	1/2"	1 1/4"	0
CB-10	0.25_CBL	4	A307	1/2"	1 1/4"	0
CB-11	0.25_CBL	4	A307	1/2"	1 1/4"	0
CB-12	0.31_CBL	4	A307	1/2"	1 1/4"	0
C-1	6X25C16	1	A307	1/2"	1 1/4"	0

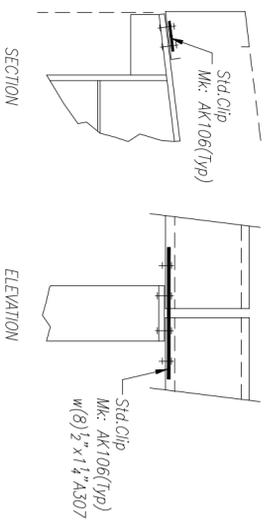
CONNECTION PLATES

MARK	PART	QUAN	TYPE	DIA	LENGTH	WASH
RP	ROOF PLAN	1	A307	1/2"	1 1/4"	0
RP	MARK/PART	1	A307	1/2"	1 1/4"	0



ROOF FRAMING PLAN

EAVE STRUT DETAIL
Special Bolt Attachment



ACCESSORIES

MK	QTY	DESCRIPTION	WALKDOORS AND WINDOWS	FRAMED OPENINGS						
MK	QTY	SKYLIGHT/WALL LIGHT DESCRIPTION - COLOR	MK	QTY	DESCRIPTION	MK	QTY	WIDTH	HEIGHT	OPENING FOR:
A	3	WHITE 307(W) Min Lever & Dead Bolt.	B	3	9'-0"	7'-0"				Overhead Doors Not By MBP
MK	QTY	VENTILATORS								
MK	QTY	LOADERS								

DRAWING STATUS

FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the design and to provide a basis for the preparation of the final construction permit. For Final Construction Permit, the drawings must be complete.

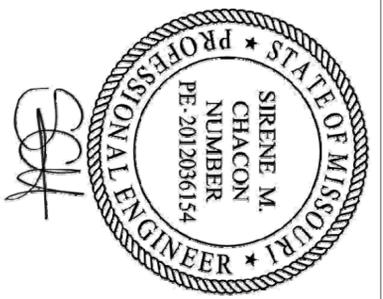
FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. They are intended to be used for construction. Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM

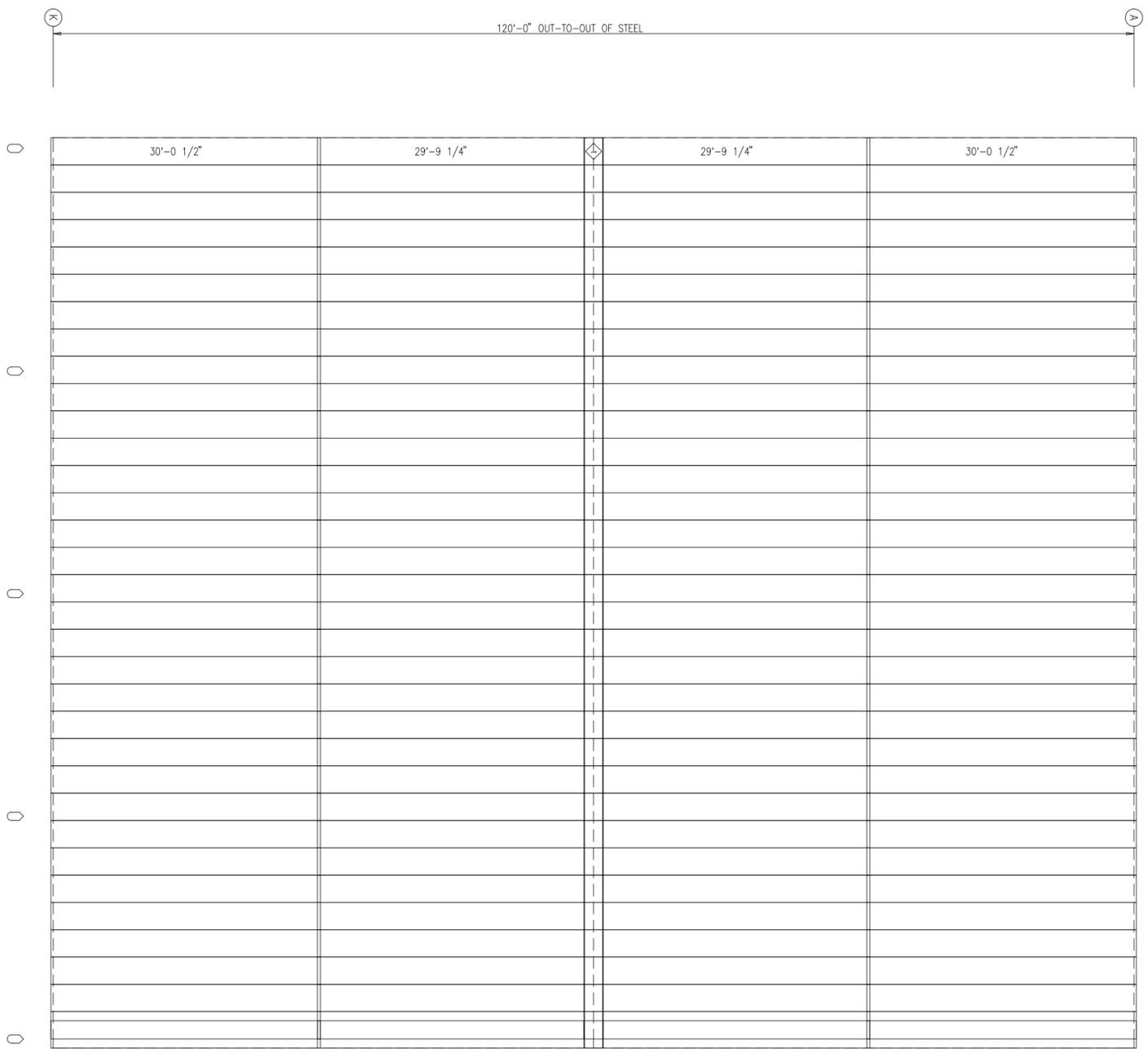
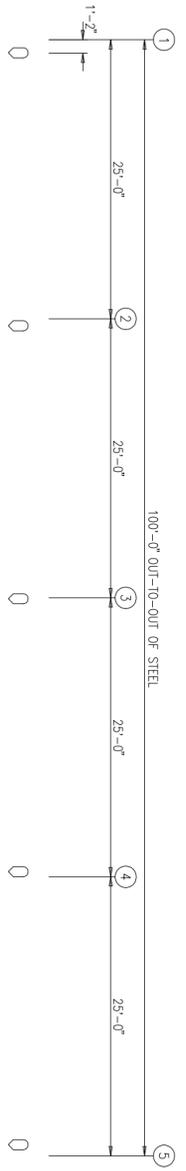
PROJECT REFERENCE: LS Management Hanger
PROJECT DESCRIPTION: ROOF FRAMING PLAN
PROJECT LOCATION: Peculiar, MO 64078
PROJECT REFERENCE: BLOC 534
PROJECT LOCATION: 100'-0" x 100'-0" x 22'-0"

ENGINEER: JOSEPH CHACON
DATE: 12/18/24
ENGINEER: JOSEPH CHACON
DATE: 12/18/24
ENGINEER: JOSEPH CHACON
DATE: 12/18/24



DOWNSPOUT LOCATIONS

NO.	PART	LENGTH	QTY
1	SSRC30	3'-0"	34



ROOF SHEETING PLAN
 PANELS: 26 Ga. Super Span X - Light Stone

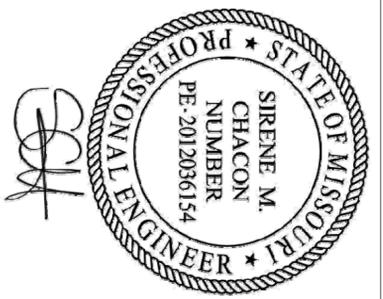
Gutter Size: 8" x 8"
 Downspout Size: 4" x 4"
 Maximum Downspout Spacing: 25.0 (ft)
 Downspout Located @ ends: (Y)

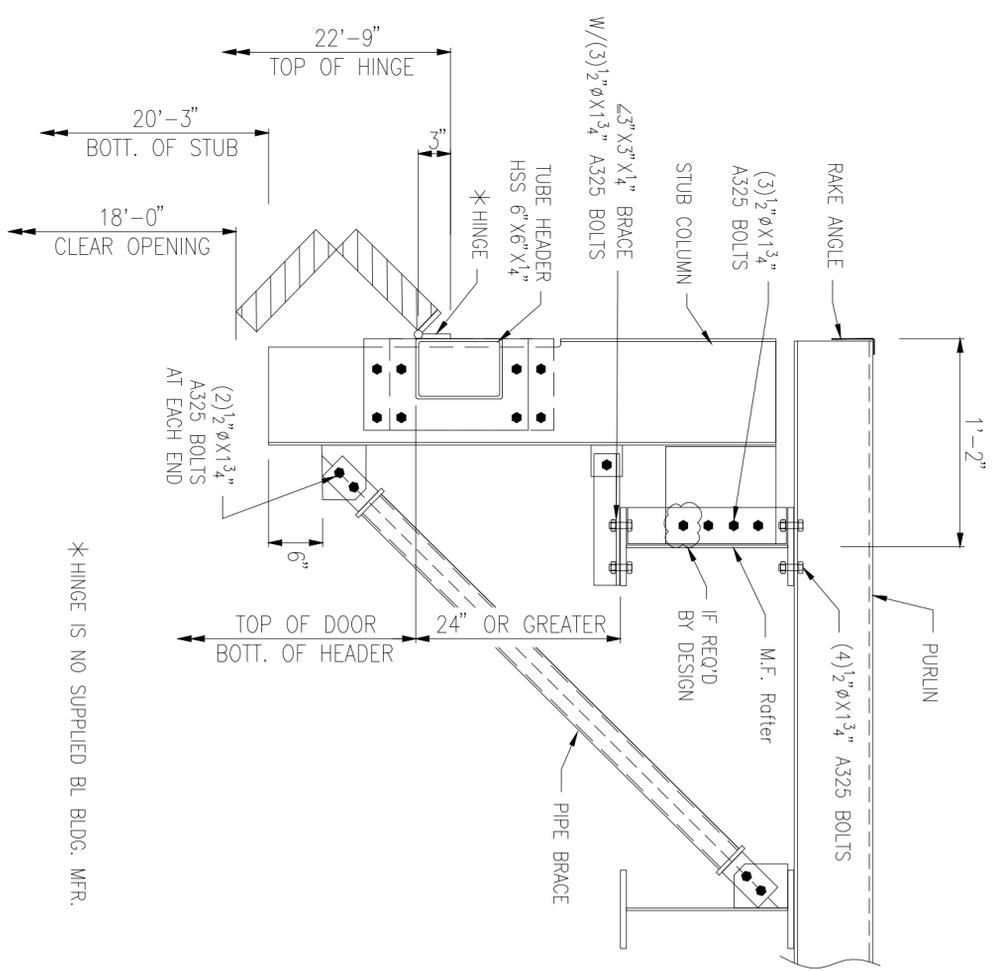
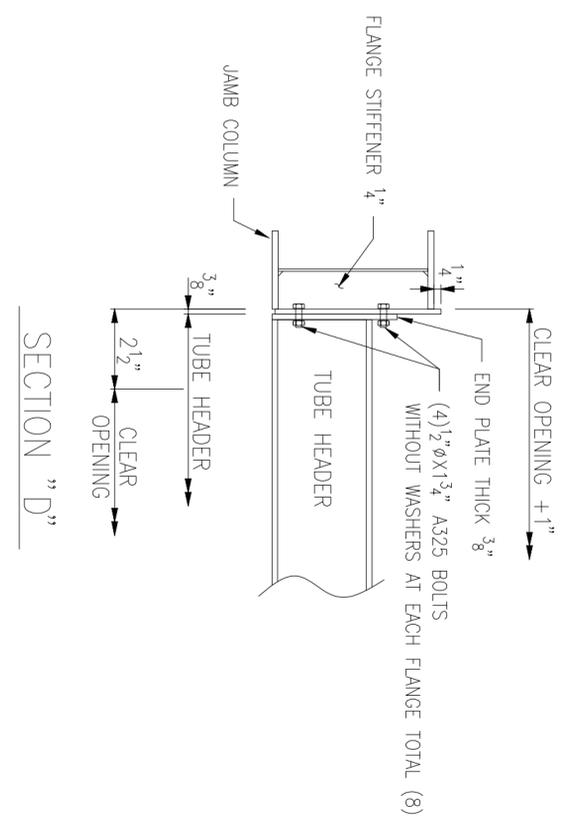
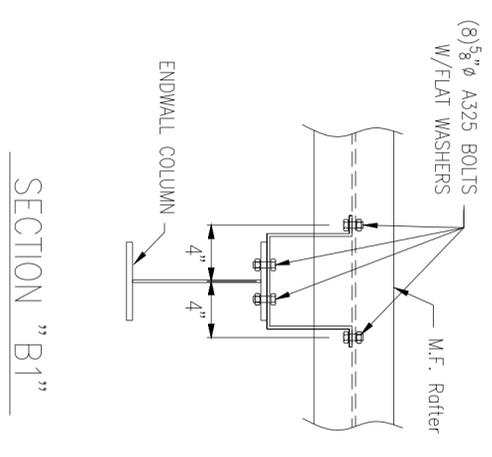
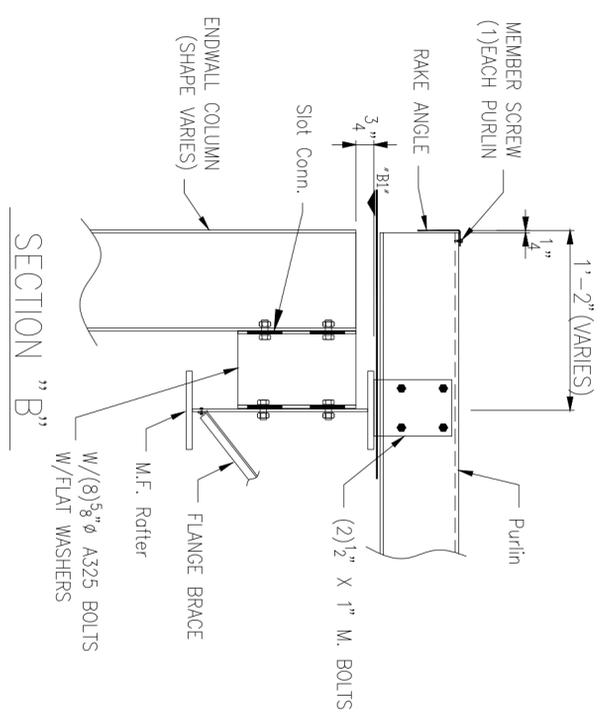
DRAWING STATUS
 FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the project description and to provide a basis for the construction permit application.
 FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. They are based on the information provided and are intended to be used for construction.
 FINAL DRAWING: These drawings, being final, are by definition final and are intended to be used for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	CUSTOMER	PROJECT REFERENCE	JOB SITE LOCATION	ISSUE
P1	12/18/24	FOR CONSTRUCTION PERMIT	DM	AM	LS Management Hanger	ROOF SHEETING PLAN	120'-0" x 100'-0" x 22'-0"	P1

The Engineer, whose seal and signature appear on these documents represents Worldwide Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material design and manufacture by Midwest Steel Buildings, Inc., and does not extend to other areas, including, but not limited to, the design and erection of the building.





* HINGE IS NO SUPPLIED BL BLDG. MFR.

SECTION "C"

DRAWING STATUS

FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper representation of the project documents only.

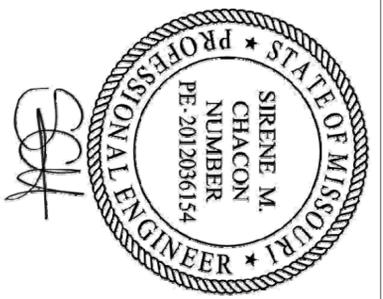
FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. Final drawings for construction.

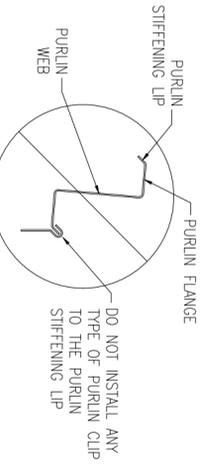
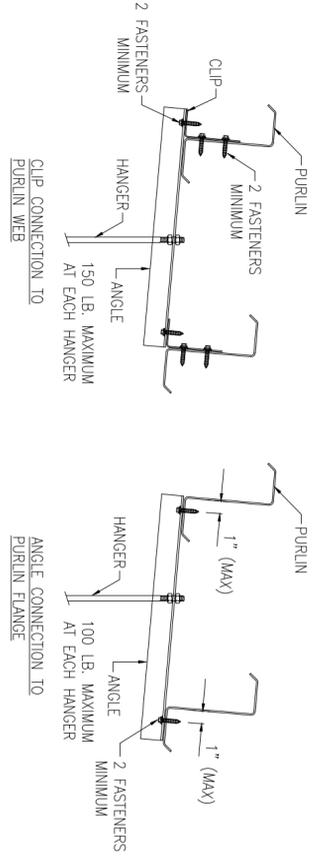
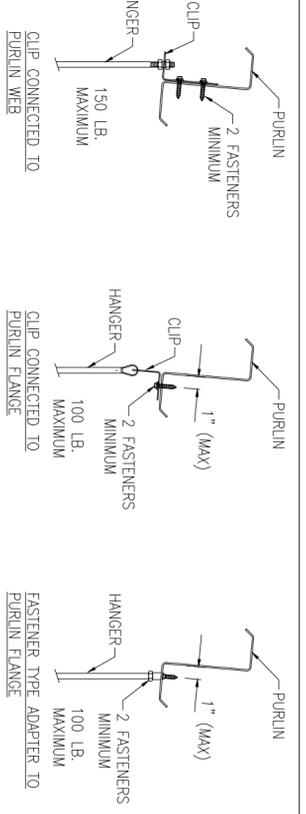


ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM

PROJECT REFERENCE	CUSTOMER	SHEET DESCRIPTION	BLDG. SIZE	BLDG. LOCATION
JOSBIE TOWER	US Management Hanger	BUILDING SECTIONS	160'-0" x 100'-0" x 22'-0"	Pendora, MO 64078

PROJECT REFERENCE	CUSTOMER	SHEET DESCRIPTION	BLDG. SIZE	BLDG. LOCATION
JOSBIE TOWER	US Management Hanger	BUILDING SECTIONS	160'-0" x 100'-0" x 22'-0"	Pendora, MO 64078

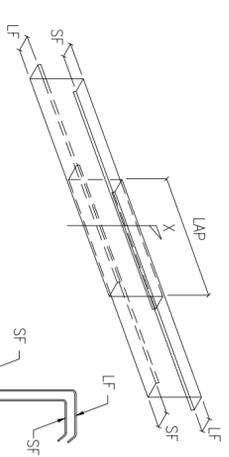




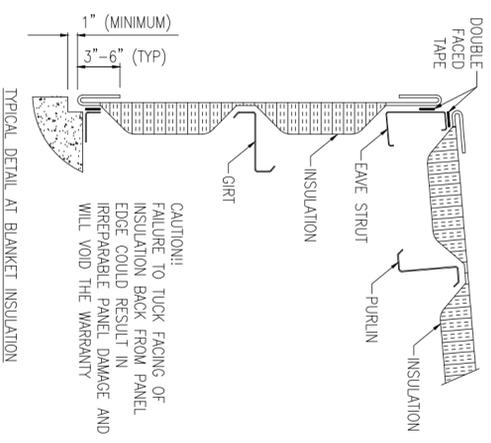
Note: If the building is designed for 0 Psf Collateral then adding any suspended system (i.e. Duct Work, Piping, Lights, Ceiling, Etc.) will correspondingly reduce the Design Live Load.

ACCEPTABLE CONNECTIONS FOR BUILDING ACCESSORIES TO PURLIN ATTACHMENT

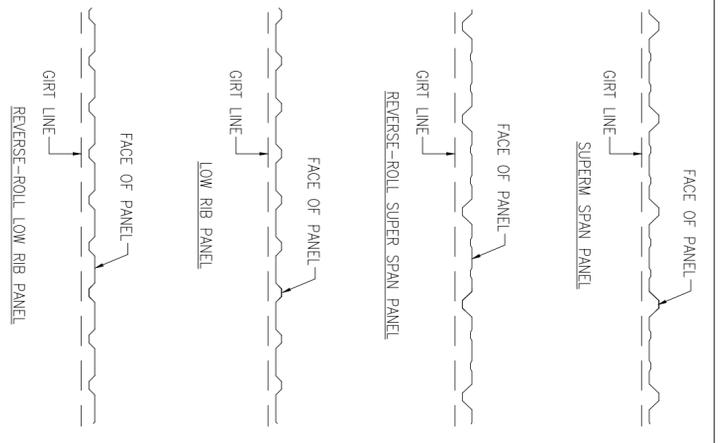
ROTATE EACH ZEE AS REQUIRED TO ALTERNATE BETWEEN THE LONG AND SHORT FLANGE



ZEE LAP AT LONG AND SHORT FLANGES



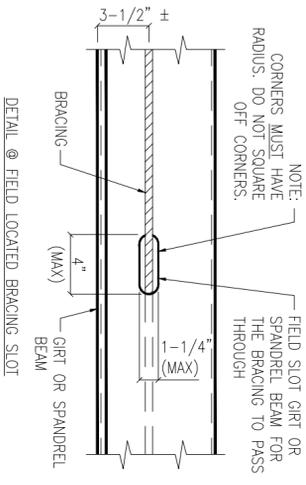
CAUTION!! FAILURE TO TUCK FACING OF INSULATION BACK FROM PANEL EDGE COULD RESULT IN IRREPARABLE PANEL DAMAGE AND WILL VOID THE WARRANTY



PANEL LAYOUT DETAILS SEE C1 FOR PANEL PROFILES SPECIFIED FOR THIS PROJECT

FLANGE WIDTH (IN INCHES)	FLANGE THICKNESS (IN INCHES)	WEB THICKNESS (IN INCHES)
5 = 5	3 =	1 = 10GA.
6 = 6	3/16	2 = 8GA.
8 = 8	4 = 1/4	3 = 3/16
0 = 10	5 =	4 = 1/4
2 = 12	5/16	6 = 3/8

BUILT-UP SECTION LEGEND



NOTE: CORNERS MUST HAVE RADIUS; DO NOT SQUARE OFF CORNERS.

NOTE: FIELD SLOT GIRTS OR SPANDREL BEAM FOR THE BRACING TO PASS THROUGH

DETAIL @ FIELD LOCATED BRACING SLOT

DRAWING STATUS

FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper understanding of the project and to identify any discrepancies.

FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. They are based on the information provided and are intended for construction.

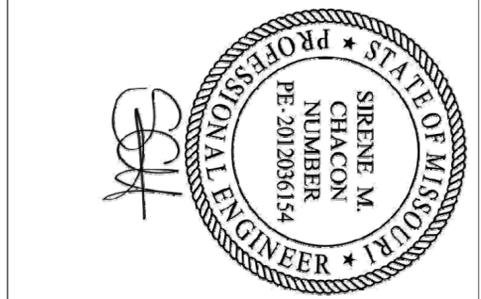
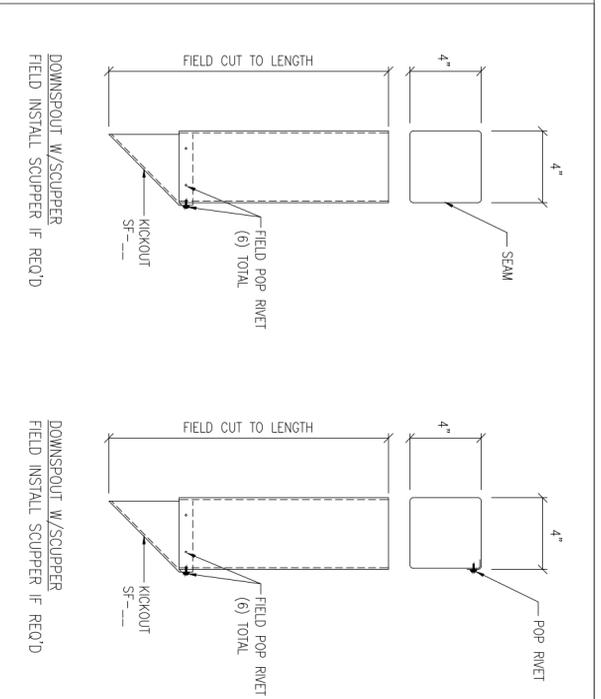
FINAL DRAWING: These drawings are final and are intended for construction.

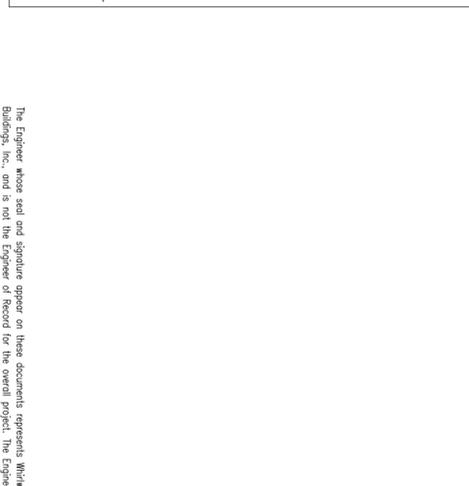
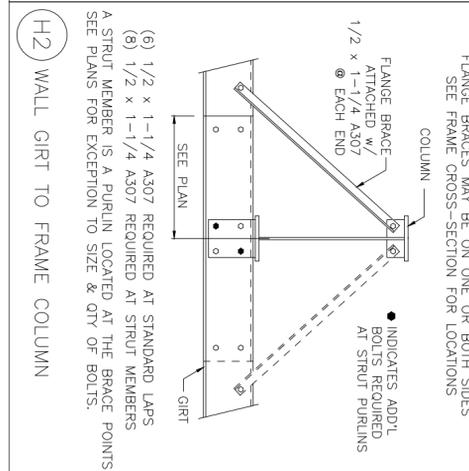
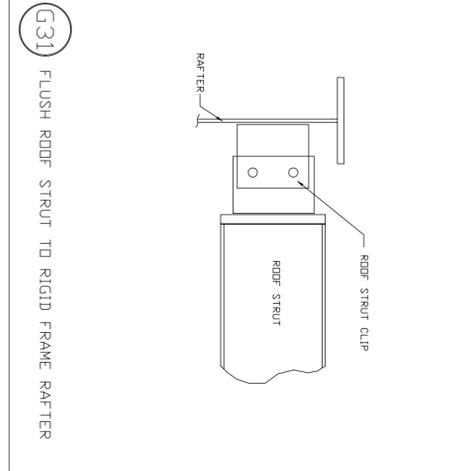
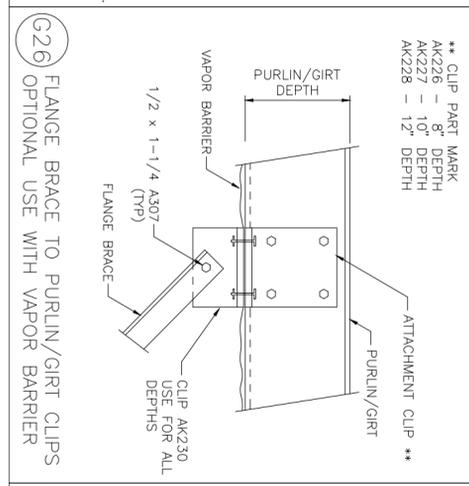
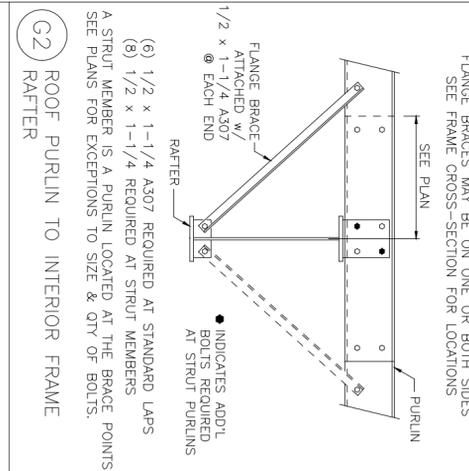
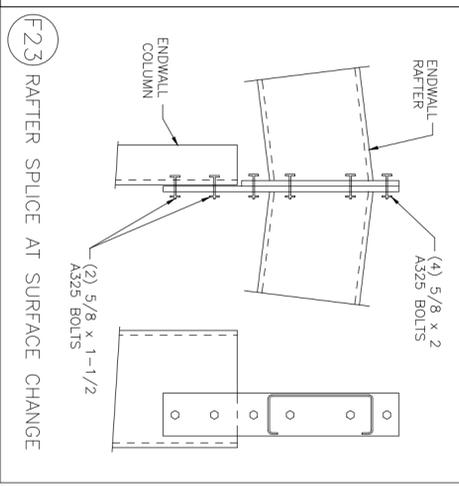
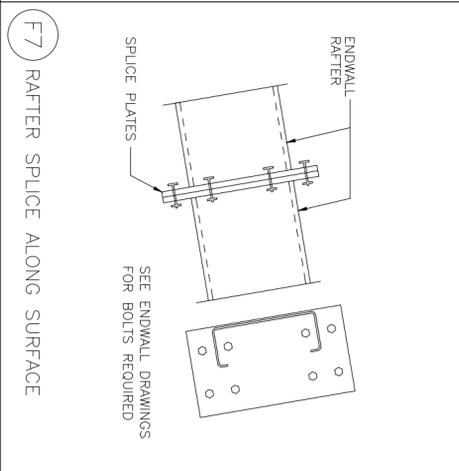
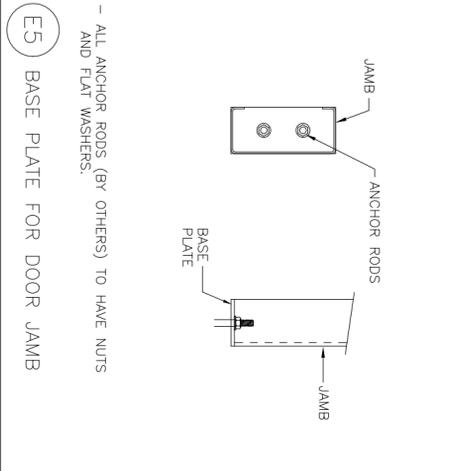
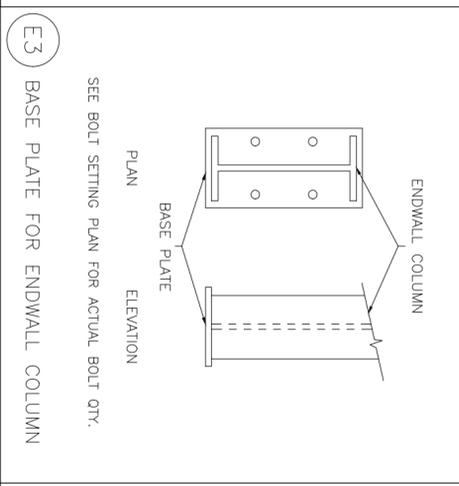
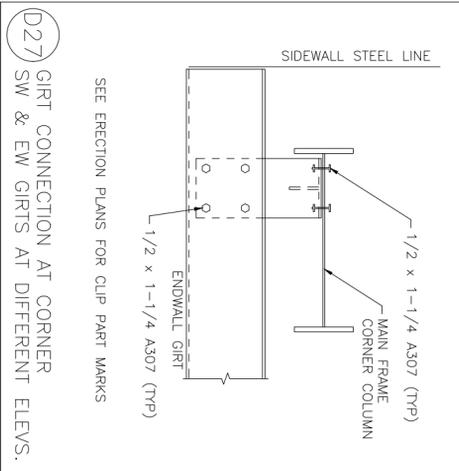
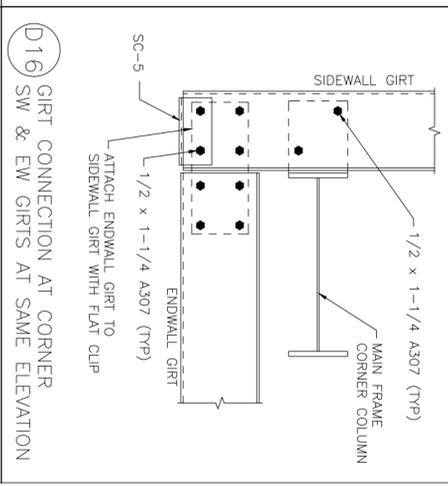
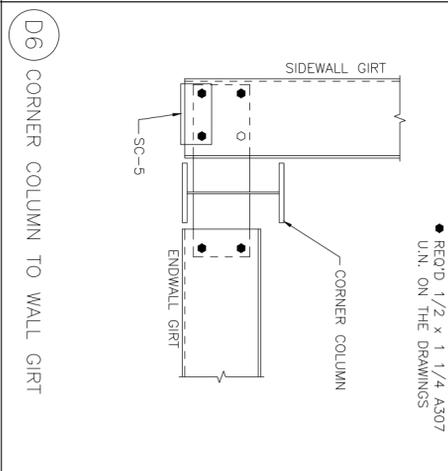
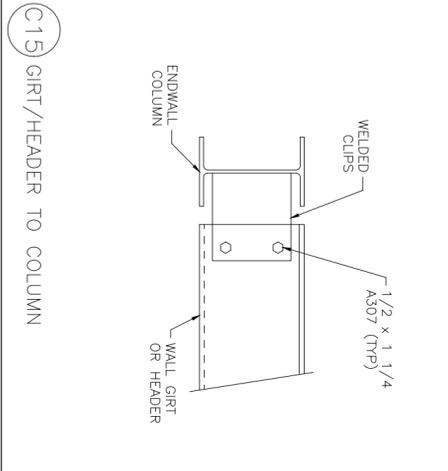
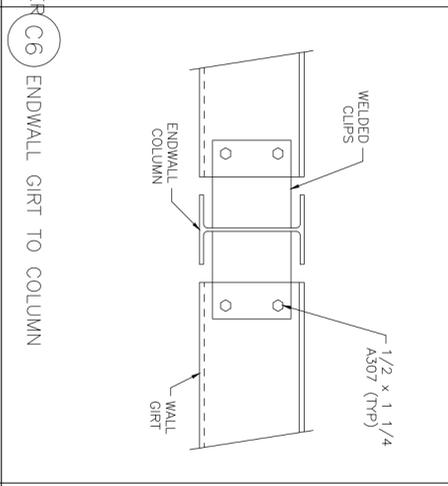
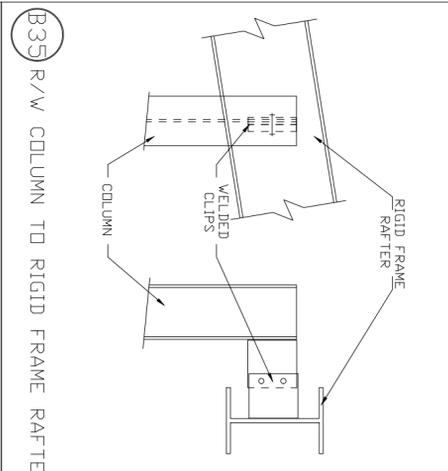
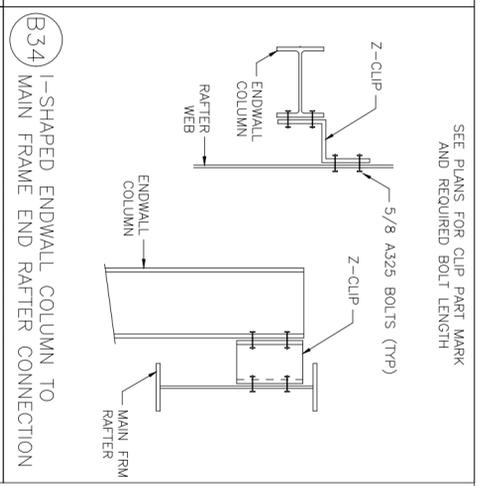
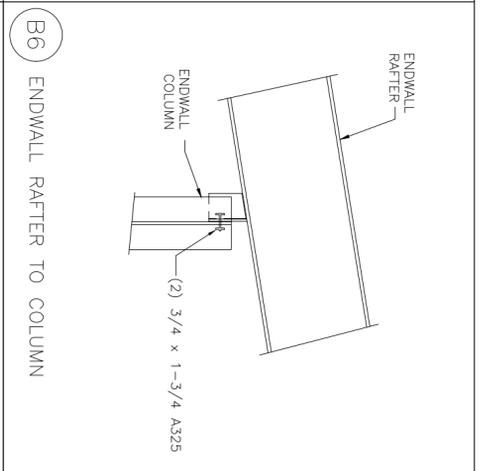
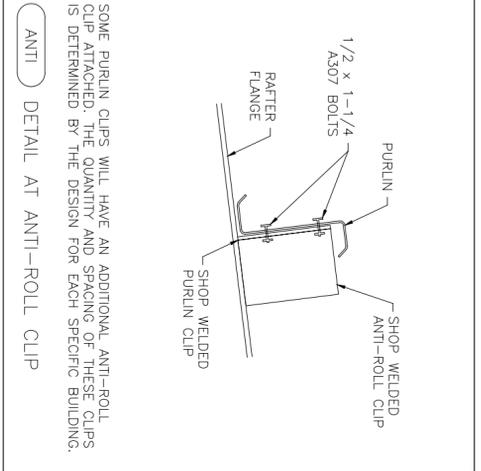
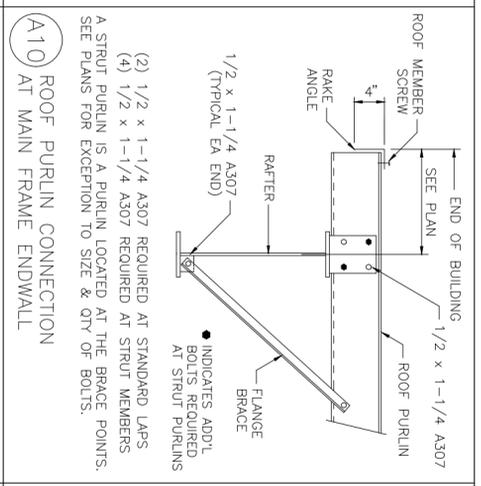
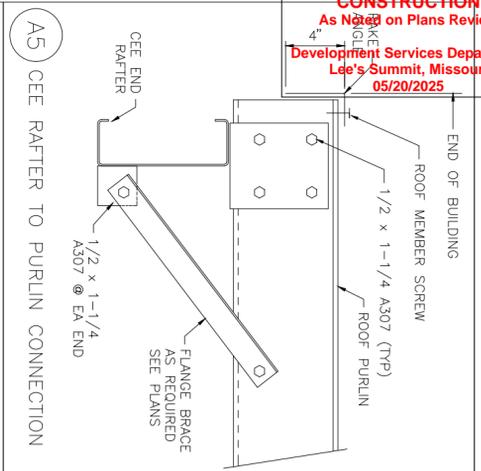


ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12/18/24	FOR CONSTRUCTION PERMIT	DM	AM

The Engineer whose seal and signature appear on these documents represents Worldwide Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material design and manufacture by Worldwide Steel Buildings, Inc., and does not extend to other trades, methods, materials, or construction of the building.

PROJECT REFERENCE: US Management Hanger
CUSTOMER: US Management Hanger
PROJECT LOCATION: Lee's Summit, MO 64064
DATE: 12/18/24
ENG: AM
JOB NO.: 13222-38833
DWG NO.: P1





FLANGE BRACES MAY BE ON ONE OR BOTH SIDES
SEE FRAME CROSS-SECTION FOR LOCATIONS

(6) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS
(8) 1/2 x 1-1/4 A307 REQUIRED AT STRUT MEMBERS
A STRUT MEMBER IS A PURLIN LOCATED AT THE BRACE POINTS.
SEE PLANS FOR EXCEPTIONS TO SIZE & QTY OF BOLTS.

** CLIP PART MARK
AK226 - 8" DEPTH
AK227 - 10" DEPTH
AK228 - 12" DEPTH

DRAWING STATUS

FOR APPROVAL
These drawings, being for approval, are by definition not final and are for informational purposes only. Their purpose is to confirm the project information and to provide a record of the design process.

FOR CONSTRUCTION PERMIT
These drawings, being for permit, are by definition not final. They are intended for construction and shall be used as such.

FINAL DRAWING FOR CONSTRUCTION
Final drawings for construction.

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM

PROJECT DESCRIPTION: STANDARD DETAILS

PROJECT REFERENCE: US Management Hanger

CUSTOMER: US Management Hanger

PROJECT LOCATION: 2751 NE Douglas St., Lee's Summit, MO 64064

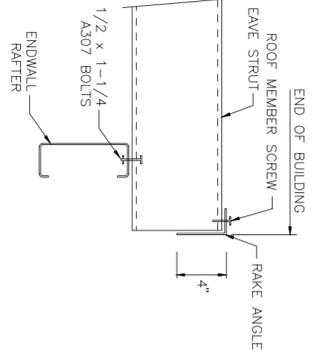
DATE: 12/18/24

ENGINEER: SIRENE M. CHACON

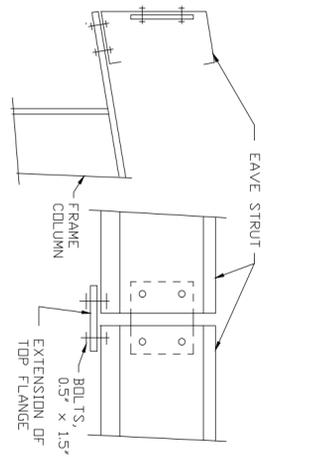
ISSUE: P1

The Engineer, whose seal and signature appear on these documents represents Matthew Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Matthew Steel Buildings, Inc., or its subsidiaries, and shall not extend to other materials, methods, or conditions of the building.

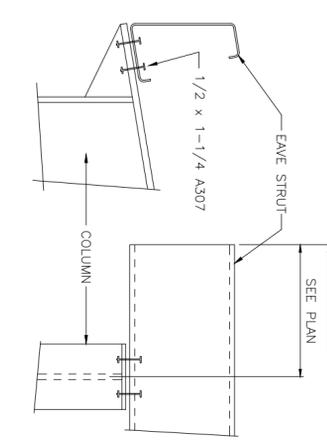
SIRENE M. CHACON
PROFESSIONAL ENGINEER
NUMBER PE-2012036154



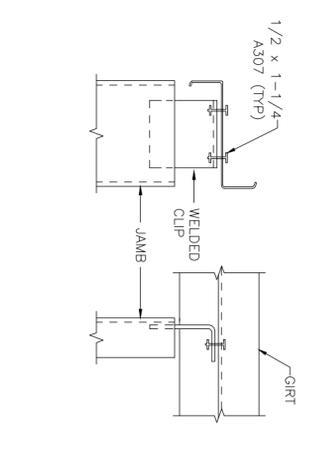
16 EAVE STRUT TO ENDWALL RAFTER



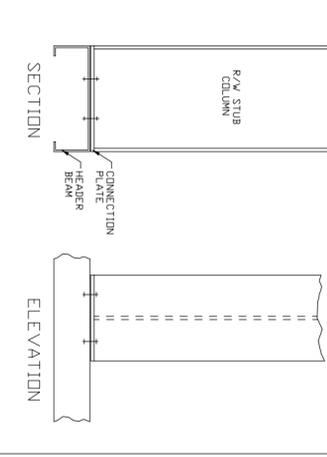
J4 EAVE STRUT TO RIGID FRAME



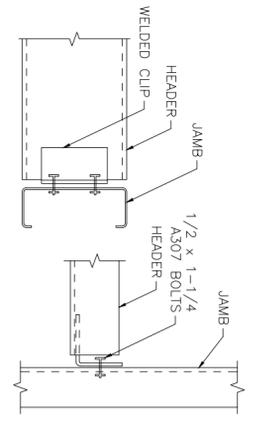
J24 EAVE STRUT TO RIGID FRAME



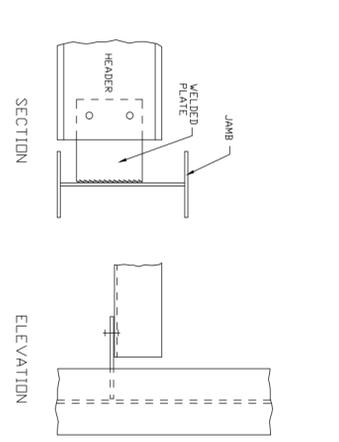
L8 DOOR JAMB TO WALL GIRTS



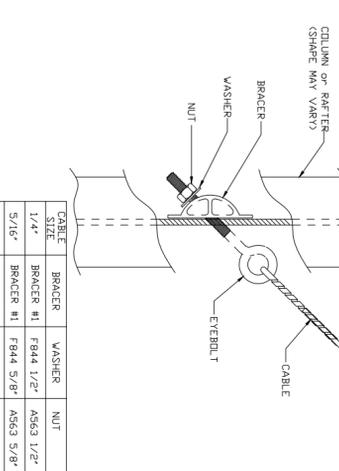
L21 C HEADER BEAM TO R/W STUB COLUMN



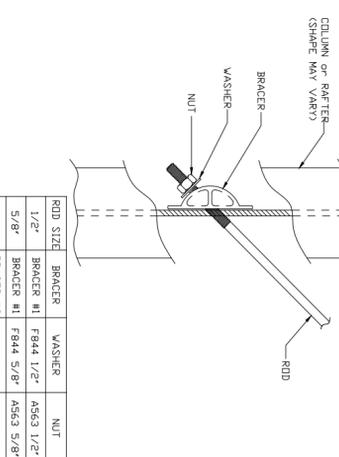
M3 HEADER TO CEE JAMB



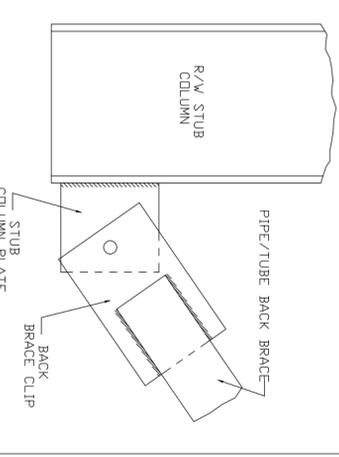
M13 HEADER TO R/W JAMB



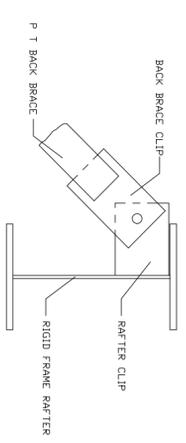
Q2 DIAGONAL CABLE BRACING INSTALLATION



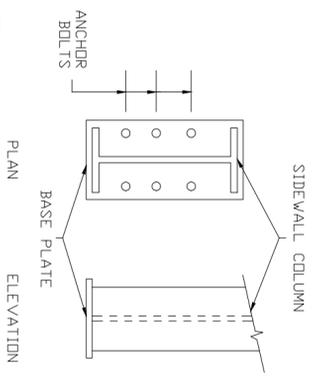
Q3 DIAGONAL ROD BRACING INSTALLATION



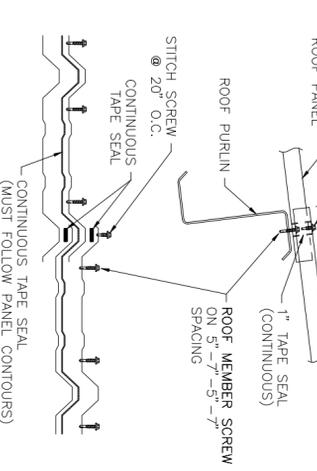
Q12 BACK BRACE TO R/W STUB COLUMN



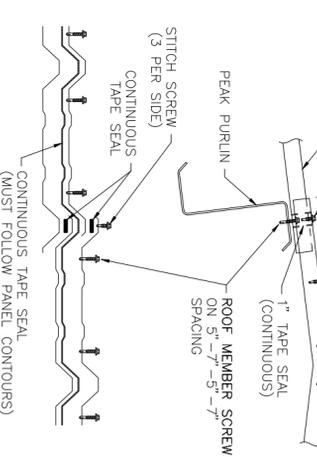
Q31 BACK BRACE TO RIGID FRAME RAFTER



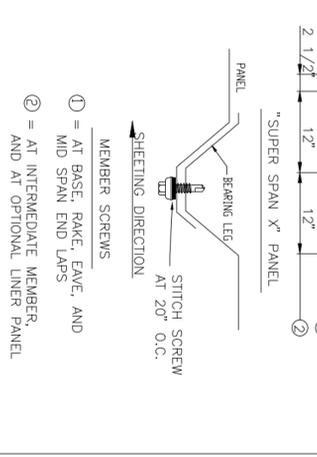
R3 ANCHOR BOLTS AT SIDEWALL COLUMN



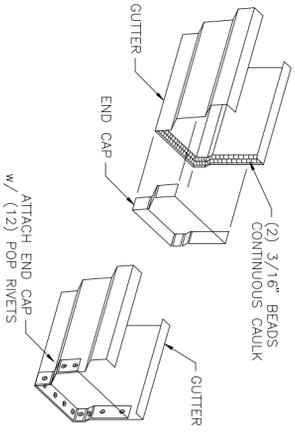
SCREW_2 TYPICAL ROOF PANEL ENDLAP SUPER SPAN X ROOF



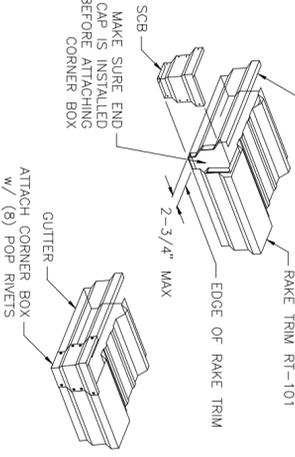
SCREW_9 TYPICAL DIE-FORMED RIDGECAP ENDLAP - SUPER SPAN X ROOF



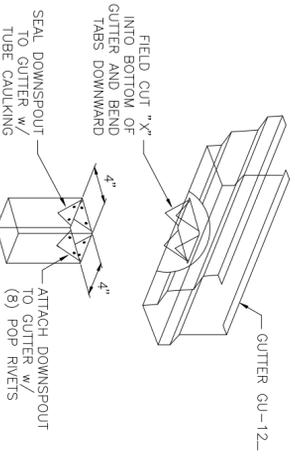
SCREW_25 FASTENER PATTERN FOR WALL PANEL (SUPER SPAN X)



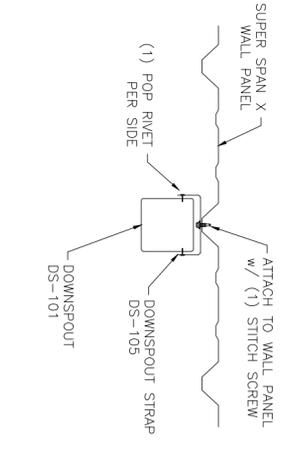
TRIM_4 GUTTER END CAP ATTACHMENT



TRIM_5 CORNER BOX ATTACHMENT



TRIM_6 DOWNSPOUT ATTACHMENT @ GUTTER



TRIM_7 DOWNSPOUT STRAP ATTACHMENT

MAKE SURE THE END OF THE GUTTER IS FLUSH WITH THE OUTSIDE FACE OF THE FINISHED END WALL AND THERE ARE NO BREAKS IN THE BEADS OF CAULK

MAKE SURE THE END OF THE GUTTER IS FLUSH WITH THE OUTSIDE FACE OF THE FINISHED END WALL

FIELD CUT "X" INTO BOTTOM OF GUTTER AND BEND TABS DOWNWARD

ATTACH ONE DS-105 STRAP AT THE BASE OF THE DOWNSPOUT THEN APPROXIMATELY 5'-0" CENTERS (8'-0" MAX.)

SEE PLANS FOR PART MARKS

(2) 3/16" BEADS CONTINUOUS CAULK

GUTTER GU-12
 RAKE TRIM RT-101
 MAKE SURE END CAP IS INSTALLED BEFORE ATTACHING CORNER BOX

GUTTER GU-12
 SEAL DOWNSPOUT TO GUTTER W/ TUBE CAULKING

DOWNSPPOUT STRAP DS-105
 ATTACH TO WALL PANEL W/ (1) STITCH SCREW

ATTACH END CAP w/ (12) POP RIVETS

ATTACH CORNER BOX w/ (8) POP RIVETS

ATTACH DOWNSPOUT TO GUTTER w/ (8) POP RIVETS

DOWNSPPOUT DS-101

DOWNSPPOUT DS-101

DRAWING STATUS

These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proposed construction with the proper authorities. The drawings are not to be used for construction.

FOR APPROVAL
 FOR CONSTRUCTION PERMIT
 FINAL DRAWING FOR CONSTRUCTION

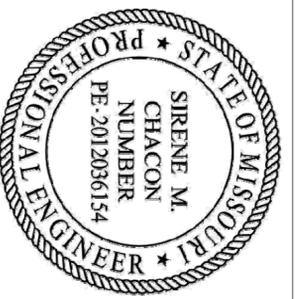
Any drawings based for permit, one by definition not final, and any drawings based for construction, one by definition not final, are not to be used for construction.

WORLDWIDE STEEL BUILDINGS

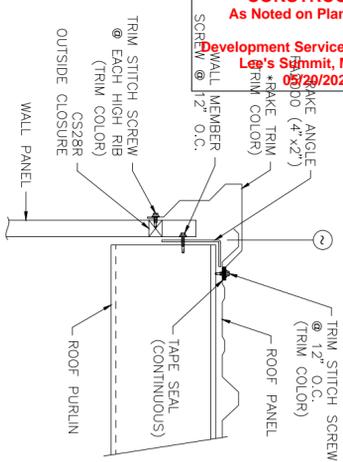
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12.18.24	FOR CONSTRUCTION PERMIT	DM	AM

PROJECT REFERENCE: US Management Hanger
CUSTOMER: US Management Hanger
PROJECT LOCATION: 2251 NE Douglas St, Lee's Summit, MO 64064
DATE: 12/18/24
ENR: 13222-36833

ISSUE: P1

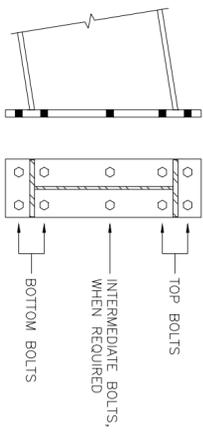


SEE PLANS FOR PART MARKS



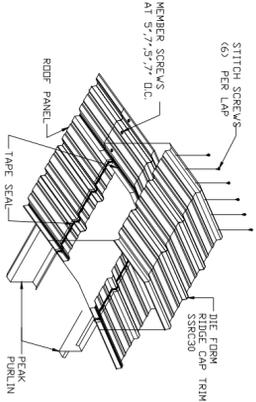
TRIM_118 TYPICAL RAKE DETAIL
SUPER SPAN X ROOF & WALLS

REFER TO FRAME CROSS-SECTION FOR BOLT SIZE & QTY.

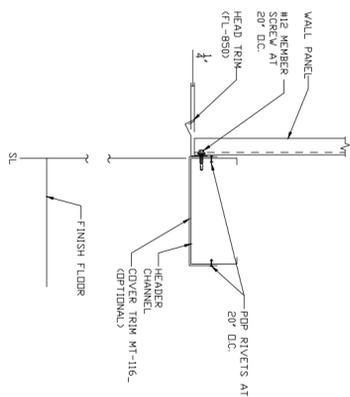


U2 BOLTED END PLATE CONNECTION
AT BUILDING PEAK

INSULATION NOT BY METAL BUILDING PROVIDER

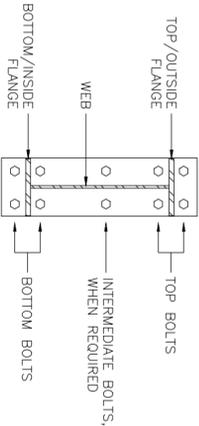


TRIM_54 DIE FORMED RIDGE CAP
INSTALLATION (SUPER SPAN X)



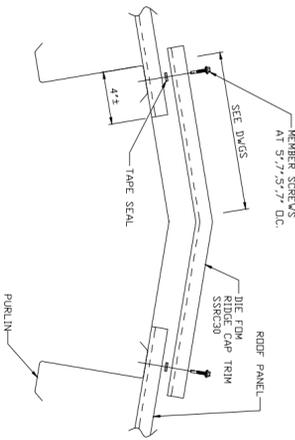
TRIM_178 HEAD TRIM DETAIL
(SUPER SPAN X)

REFER TO FRAME CROSS-SECTION FOR BOLT SIZE & QTY.

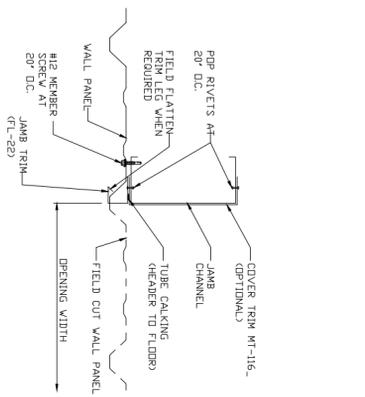


U3 BOLTS FOR RAFTER TO
COLUMN CONNECTION

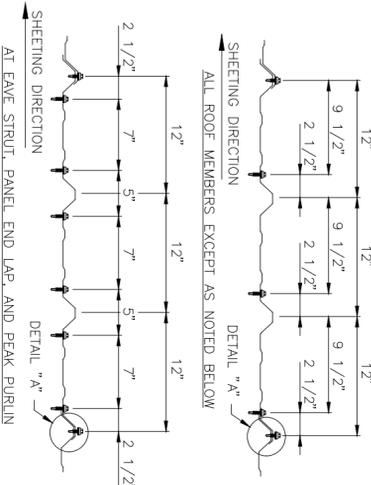
INSULATION NOT BY METAL BUILDING PROVIDER



TRIM_55 DIE FORM RIDGE CAP
INSTALLATION (SUPER SPAN X)

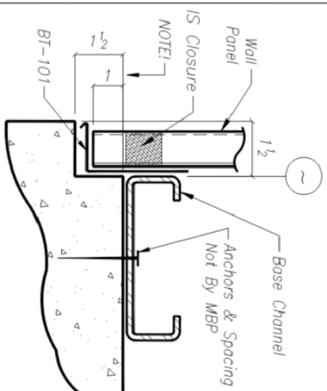


TRIM_179 JAMB TRIM DETAIL
(SUPER SPAN X)

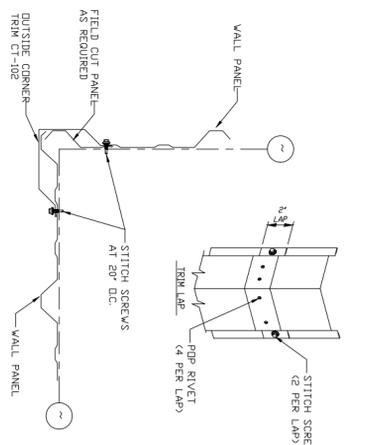


SCREW_30 FASTENER PATTERN FOR "SUPER SPAN X"
ROOF PANEL

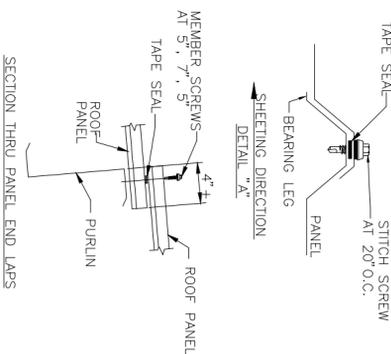
Horizontal leg of recess must remain flat or slope away from the building. Notch area indicates a recess for metal wall panels. Panels must not touch the bottom of the recess, which will void the warranty.



TYPICAL SHEETING RECESS



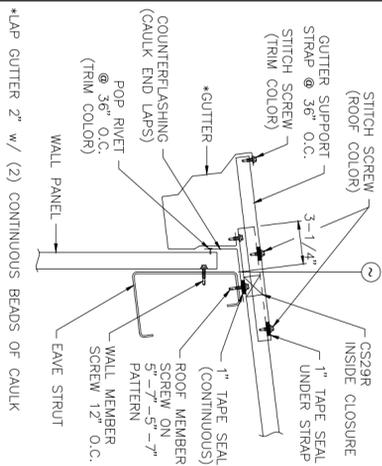
TRIM_203 CORNER TRIM INSTALLATION
(SUPER SPAN X)



U1 BOLTED END PLATE RAFTER SPLICE

SEE PLANS FOR PART MARKS

TRIM_2 TYPICAL GUTTER DETAIL
SUPER SPAN X ROOF & WALLS



DRAWING STATUS

- FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the project description and to provide a basis for the preparation of the final drawings.
- FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. They are drawings based on the information provided and are intended to be used for construction.
- FINAL DRAWINGS FOR CONSTRUCTION: These drawings are the final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	12/18/24	FOR CONSTRUCTION PERMIT	DM	AM

The Engineer, whose seal and signature appear on these documents represents within the State of Missouri, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to the design and manufacture of the Metal Steel Buildings, Inc. products and shall not extend to other matters, including but not limited to the design of the building.

PROJECT REFERENCE: US Management Hanger
PROJECT LOCATION: Peculiar, MO 64078
PROJECT DESCRIPTION: STANDARD DETAILS
SHEET DESCRIPTION: 16'-0" x 100'-0" x 22'-0"

DESIGNER: JMS/AM
CHECKER: JMS/AM
DATE: 12/18/24
ENGINEER: JMS/AM
13222-38833

ISSUE: P1

