

STRUCTURAL ABBREVIATIONS			
AFF	ABOVE FINISH FLOOR	NF	NEAR FACE
ADD'L	ADDITIONAL	NS	NEAR SIDE
ALT	ALTERNATE	NTS	NOT TO SCALE
AB	ANCHOR BOLT(S)	OC	ON CENTER
APPROX	APPROXIMATELY	OPP	OPPOSITE
ARCH	ARCHITECTURAL	OF	OUTSIDE FACE
BRG	BEARING	OD	OUTSIDE DIAMETER
BOT	BOTTOM	PL	PLATE
BLDG	BUILDING	LBS	POUNDS
CTRD	CENTERED	PCF	POUNDS PER CUBIC FOOT
CL	CENTERLINE	PCI	POUNDS PER CUBIC INCH
CLR	CLEAR	PSF	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY	PSI	POUNDS PER SQUARE INCH
UNIT	UNIT	REINF	REINFORCING
CONN	CONNECTION(S)	REQ'D	REQUIRED
CJ	CONSTRUCTION JOINT	RTU	ROOF TOP UNIT
CONT	CONTINUOUS	SCHED	SCHEDULE
DL	DEAD LOAD	SIM	SIMILAR
DIA	DIAMETER	SOG	SLAB ON GRADE
DIM	DIMENSION	SQ	SQUARE
DWG	DRAWING	SF	SQUARE FOOT
EA	EACH	STD	STANDARD
EF	EACH FACE	STIFF	STIFFENER
EW	EACH WAY	STRUC	STRUCTURAL
EH	EAVE HEIGHT	SYM	SYMMETRICAL
EL	ELEVATION (HEIGHT)	TOF	TOP OF FOOTING
EMBED	EMBEDMENT	TO SLAB	TOP OF SLAB
EQ	EQUAL	TO STL	TOP OF STEEL
EXIST	EXISTING	TO WALL	TOP OF WALL
EXP	EXPANSION	TYP	TYPICAL
EXP JT	EXPANSION JOINT	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VERT	VERTICAL
FF	FINISHED FLOOR	WWF	WELDED WIRE FABRIC
FTG	FOOTING	WF	WIDE FLANGE SHAPE
GA	GAUGE OR GAGE	WL	WIND LOAD
HORIZ	HORIZONTAL		
IN	INCH		
INFO	INFORMATION		
IF	INSIDE FACE		
K	KIPS		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		
LL	LIVE LOAD		
LONG	LONGITUDINAL		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LSH	LONG SIDE HORIZONTAL		
MBM	METAL BUILDING MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		

A. GENERAL

- GENERAL:** THE STRUCTURAL COMPONENTS ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THEY ARE FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDINGS AND THEIR COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MAY BE NECESSARY.
- SAFETY:** IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING PHASES OF CONSTRUCTION.
- MISCELLANEOUS:** EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURES IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
- DISCREPANCIES:** SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OTHER CONTRACT DOCUMENTS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- SECTION & DETAIL REFERENCE:** WHEN A SECTION OR A DETAIL IS REFERENCED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS, REGARDLESS OF WHETHER IT IS REFERENCED OR NOT, UNLESS NOTED OTHERWISE.
- SUBMITTALS:**
 - SUBMITTALS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
 - SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH THE PRINCIPLES AND CONTRACT DOCUMENTS OF THE PROJECT. CONTRACTOR IS NOT RELIEVED FROM HIS SOLE RESPONSIBILITY REGARDING CHECKING OF DIMENSIONS, QUANTITIES, COORDINATION OF THE WORK OF TRADES, CORRELATION OF DESIGN DOCUMENTS THAT MAY CONTAIN CONTRADICTORY INFORMATION AND FOR INFORMATION THAT PERTAINS TO THE FABRICATION, CONSTRUCTION PROCESSES AND/OR SAFETY REQUIREMENTS
- QUALITY REQUIREMENTS:**
 - REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.

- VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TENNESSEE. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS ARE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE BY THE CONTRACTOR'S STRUCTURAL ENGINEER:
 - TEMPORARY BRACING AND SHORING

B. STRUCTURAL STEEL

- MATERIALS:**
 - STRUCTURAL STEEL: ASTM A992, FY=50 KSI; ELECTRODES: SERIES E70.
- SPECIFICATION:** WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:
 - AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (LATEST EDITION).
 - AISC CODE OF STANDARD PRACTICE (LATEST EDITION).
 - STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
- CONNECTIONS:**
 - CONNECTIONS ARE AS DETAILED ON THE DRAWINGS.
- FINISH:**
 - STEEL EXPOSED TO THE ELEMENTS TO BE G90 HOT DIPPED GALVANIZED
- MISCELLANEOUS:**
 - STEEL SUPPORTING OR CONNECTING TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. RECONCILE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH THIS WORK.

1A ROOF FRAMING PLAN
 3/32" = 1'-0"
 0 5.33 10.66' 21.33'
 NORTH

REVISIONS:

PROJECT #: 24534.00
 DATE: FEB 03, 2025
 DRAWN BY: AC
 DESIGNER: YAS
 CHECKED BY: YAS

Pickering
 Pickering Firm, Inc.
 6883 Poplar Avenue, Suite 300, Memphis, TN 38119
 901.726.0810

**KROGER STORE U-520
 HVAC REMODEL
 5319 MOUNT VIEW RD
 ANTIPOCH, TN 37013**

Kroger
 THE KROGER CO.
 GENERAL OFFICE
 1014 VINE STREET
 CINCINNATI, OHIO 45202

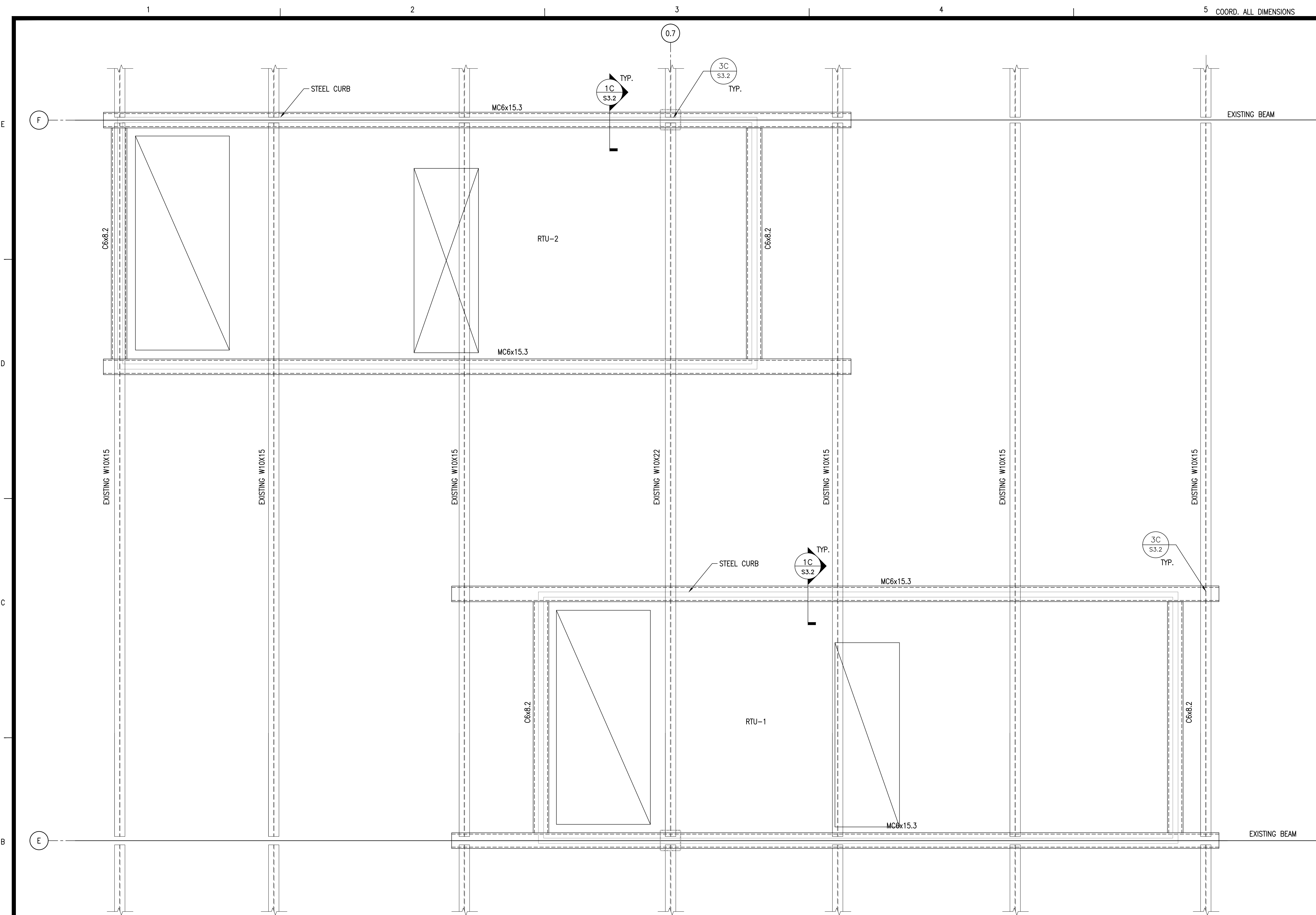
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02/03/2025

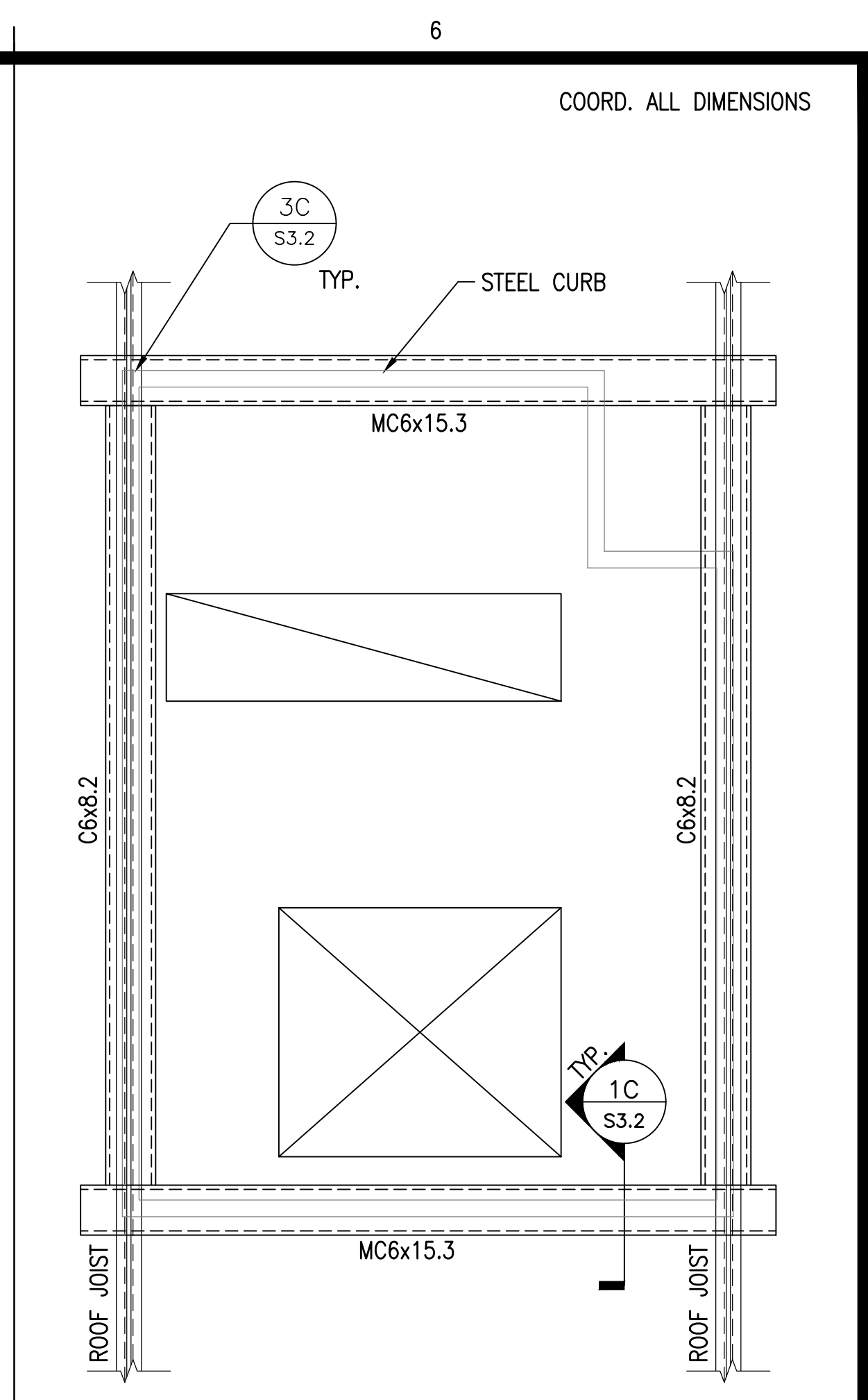
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S1.2

DESCRIPTION:
 ROOF FRAMING PLAN AND NOTES

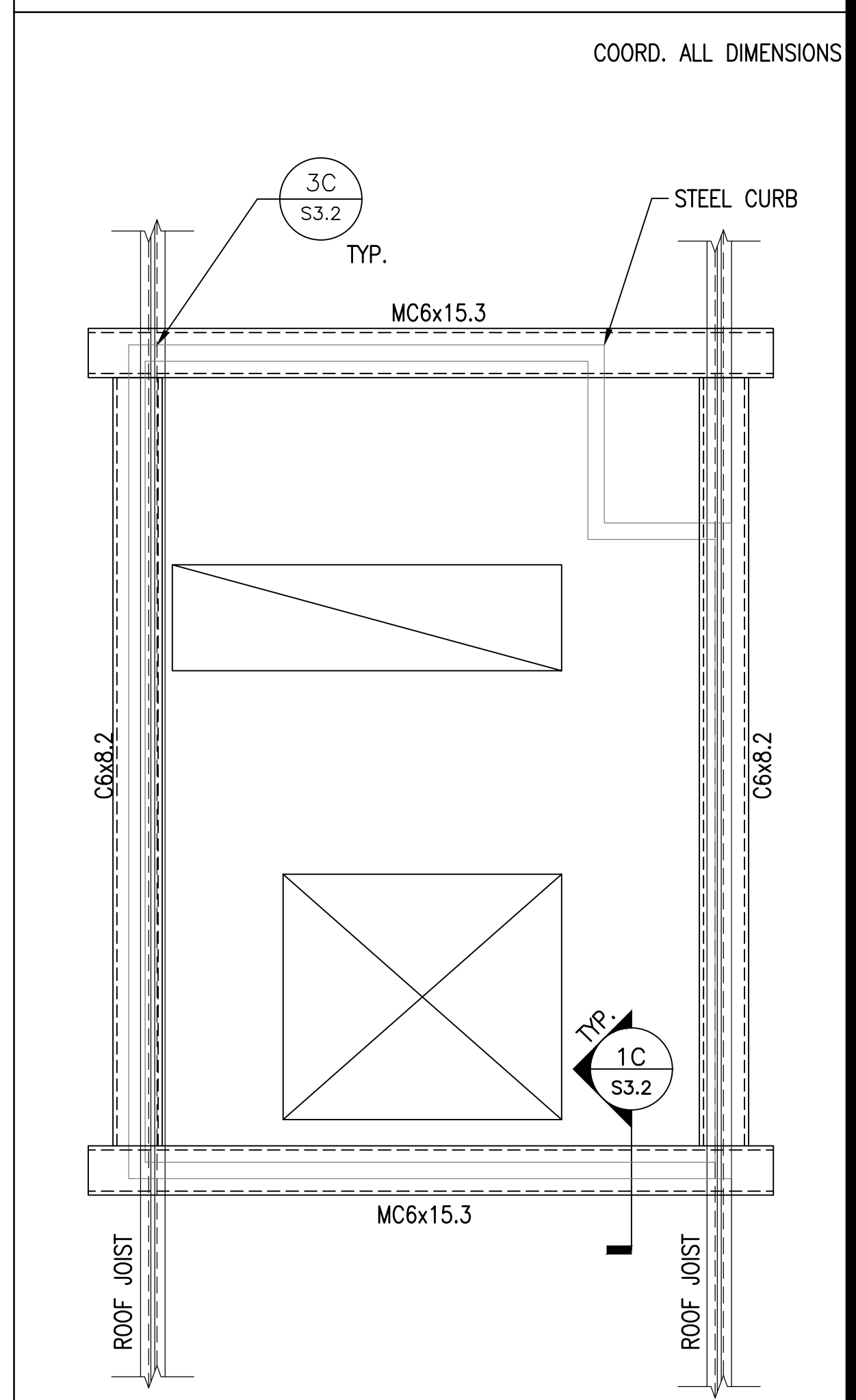
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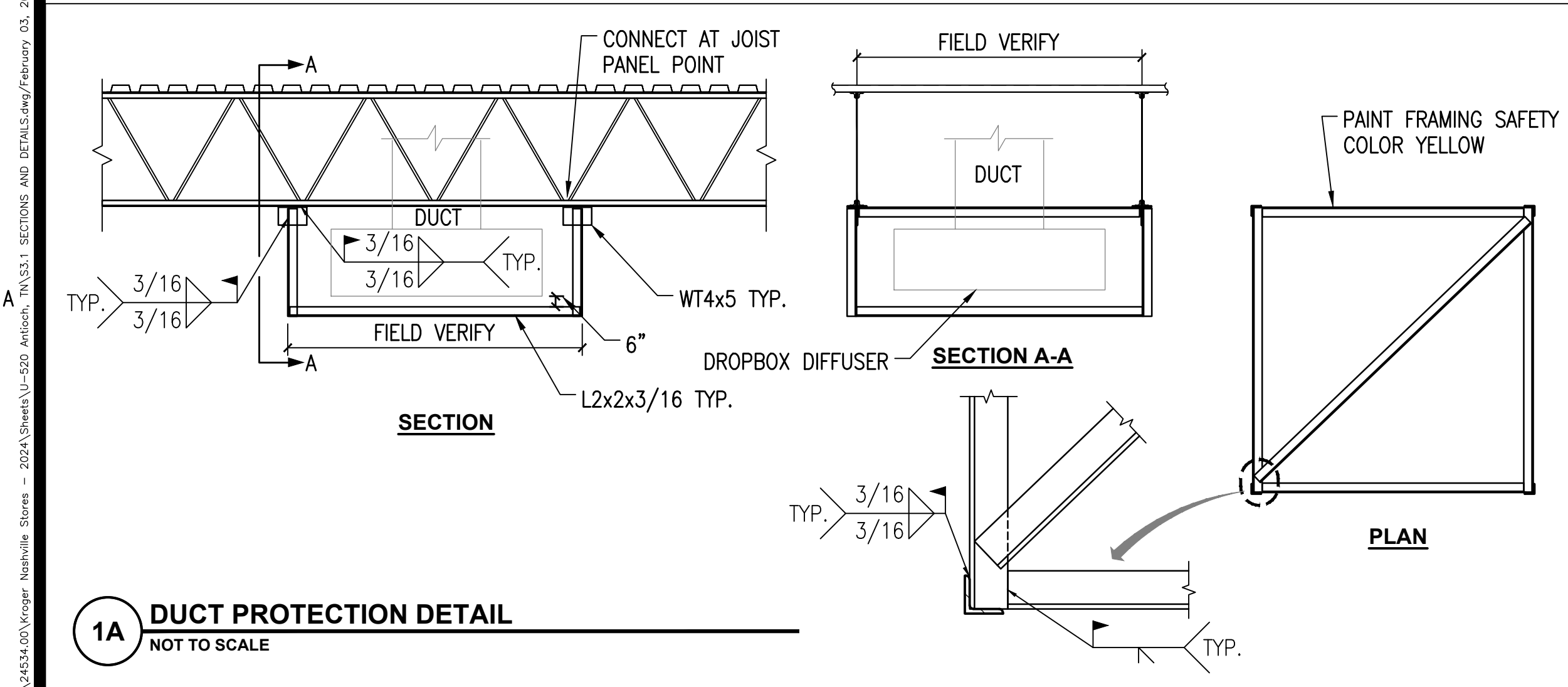
1B PLAN AT CURB SUPPORT - RTU-1 & RTU-2
3/4"=1'-0" S-DET014



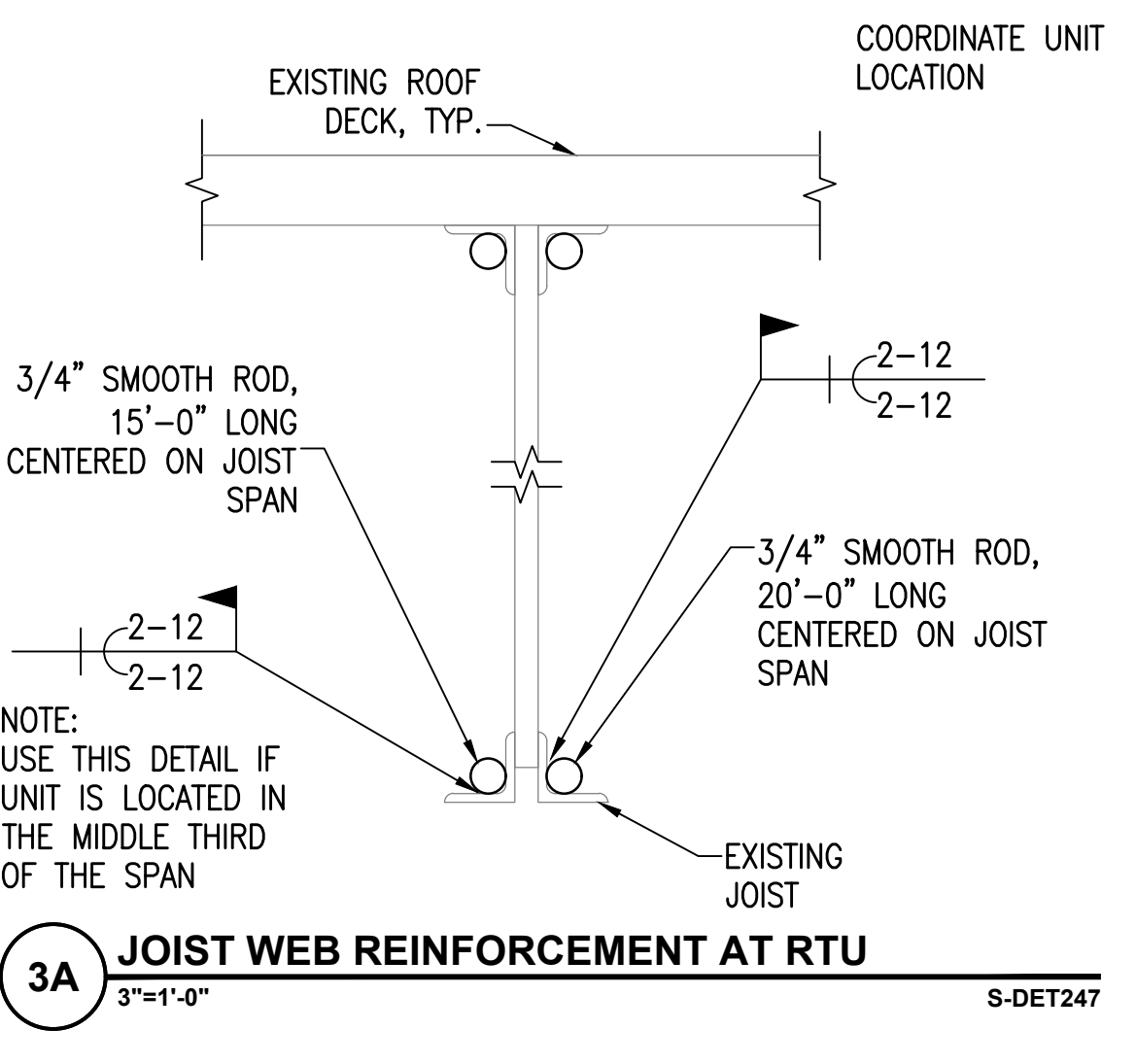
6D PLAN AT CURB SUPPORT - RTU-6
3/4"=1'-0" S-DET010



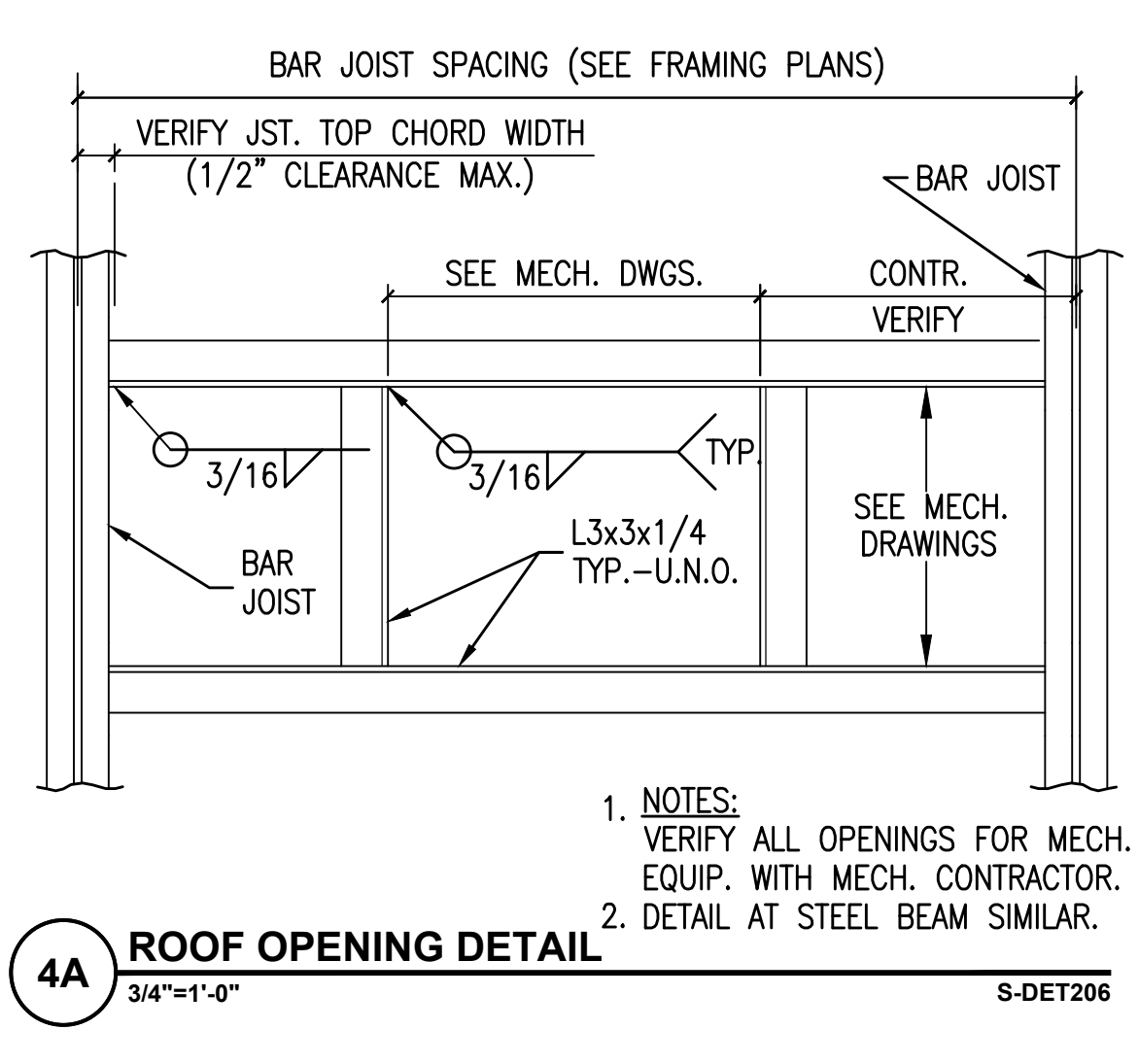
6B PLAN AT CURB SUPPORT - RTU-7
3/4"=1'-0" S-DET011



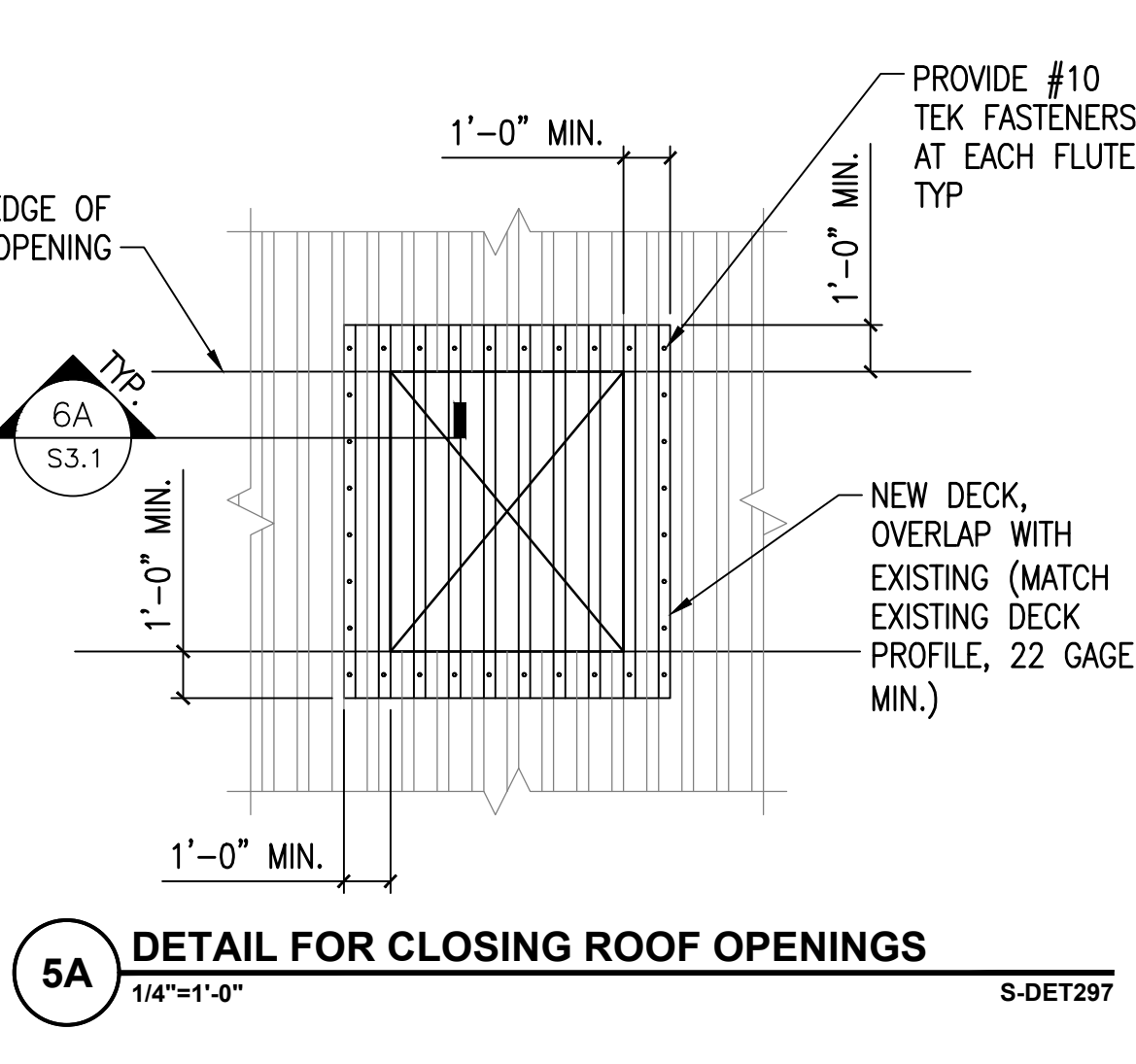
1A DUCT PROTECTION DETAIL
NOT TO SCALE



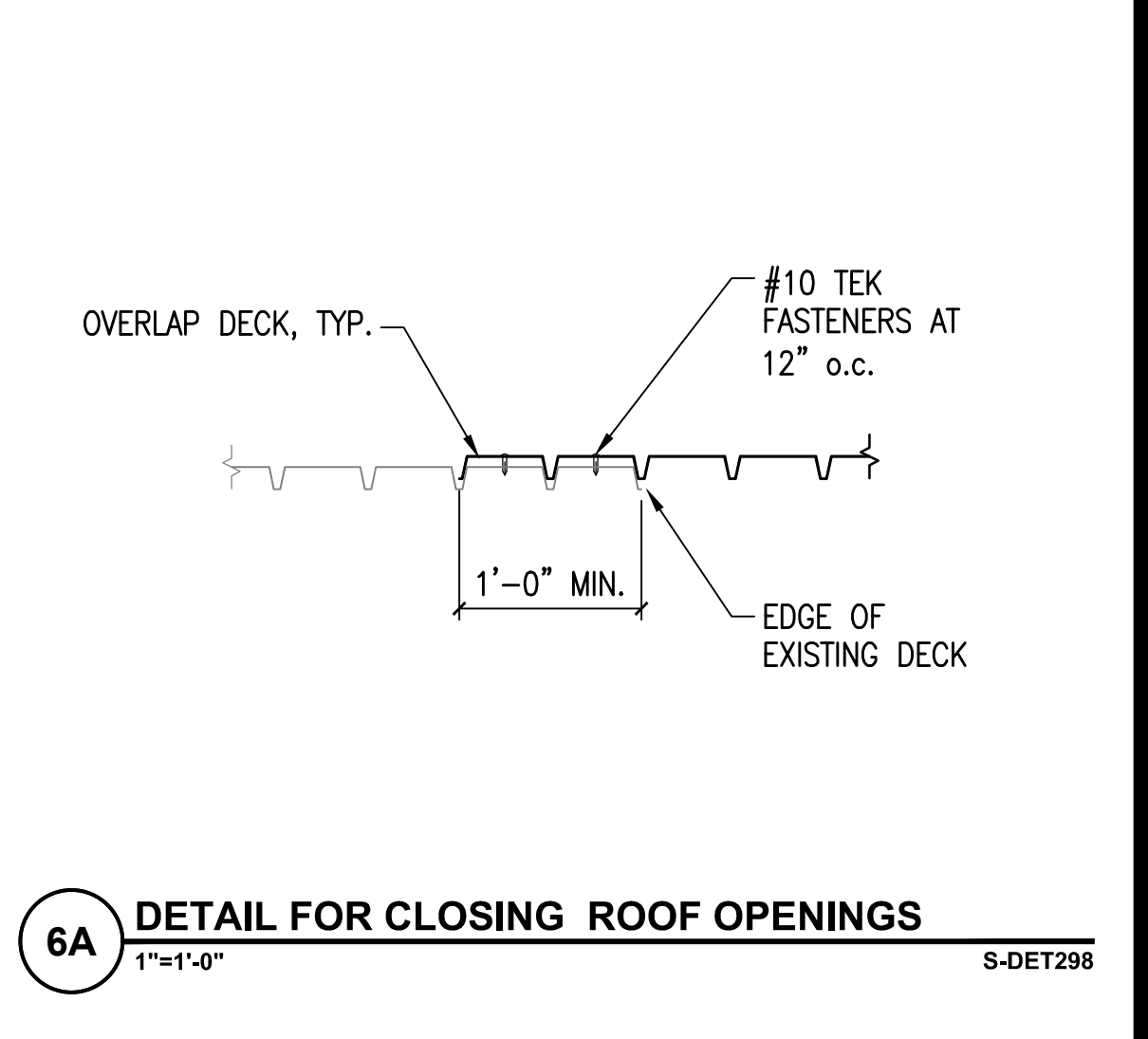
3A JOIST WEB REINFORCEMENT AT RTU
3"=1'-0" S-DET247



4A ROOF OPENING DETAIL
3/4"=1'-0" S-DET206



5A DETAIL FOR CLOSING ROOF OPENINGS
1/4"=1'-0" S-DET297



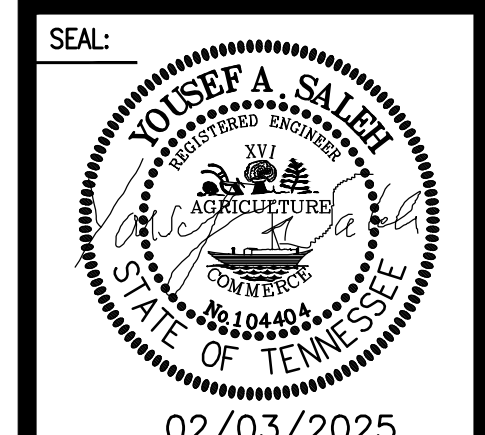
6A DETAIL FOR CLOSING ROOF OPENINGS
1"=1'-0" S-DET298

REVISIONS:

PROJECT #: 24534.00
DATE: FEB 03, 2025
DRAWN BY: AC
DESIGNER: YAS
CHECKED BY: YAS



KROGER STORE U-520
HVAC REMODEL
5319 MOUNT VIEW RD
ANTIOCH, TN 37013

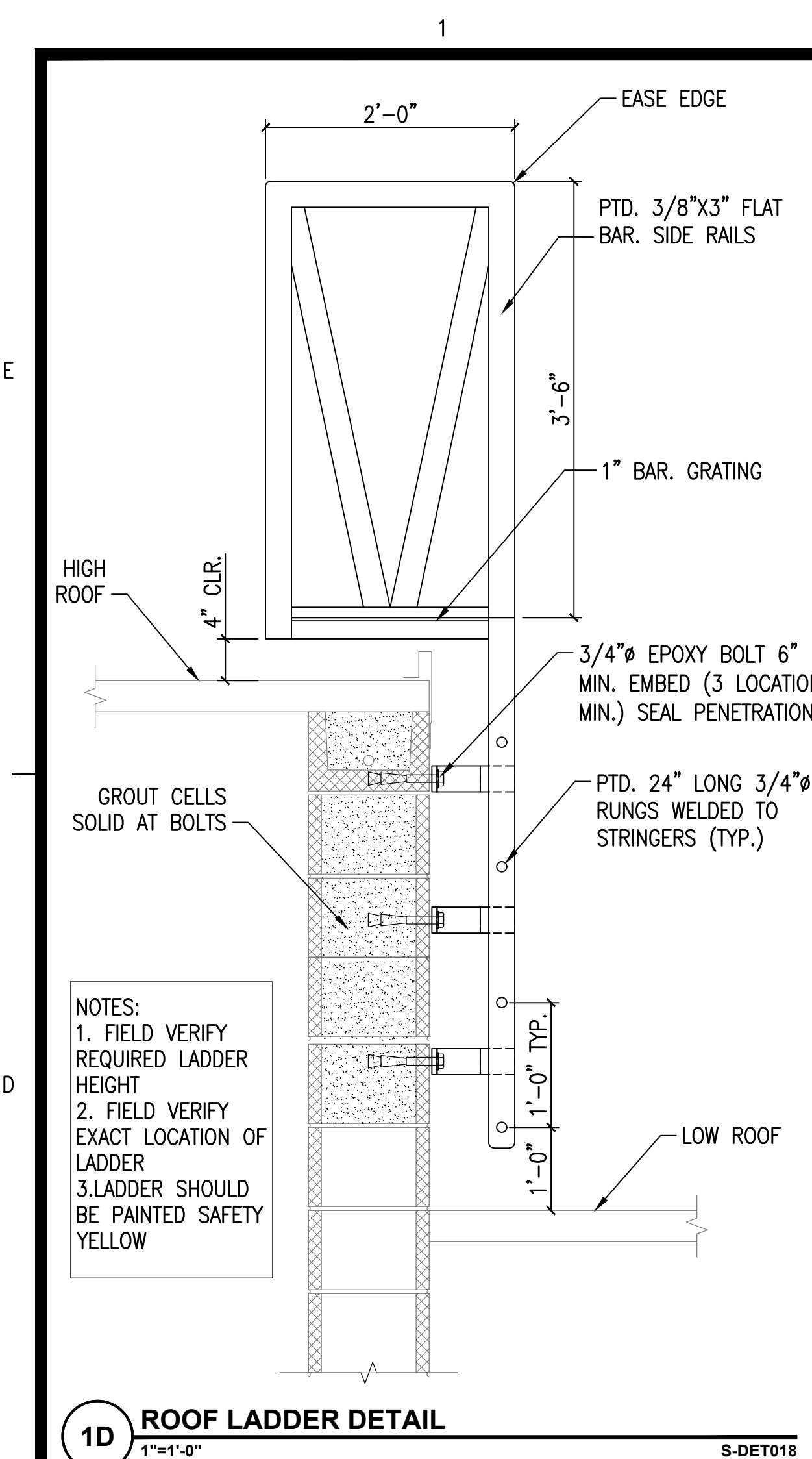


SHEET NUMBER:
S3.1

DESCRIPTION:
SECTIONS AND DETAILS

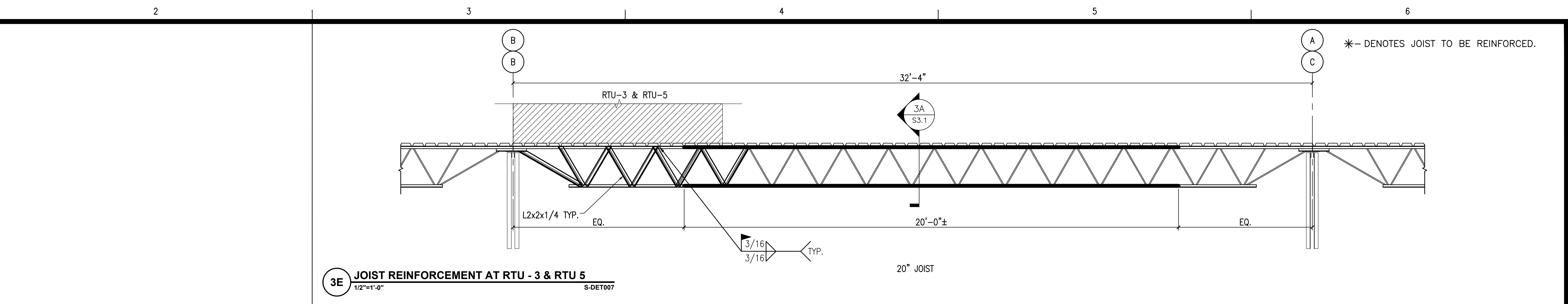
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BID SET

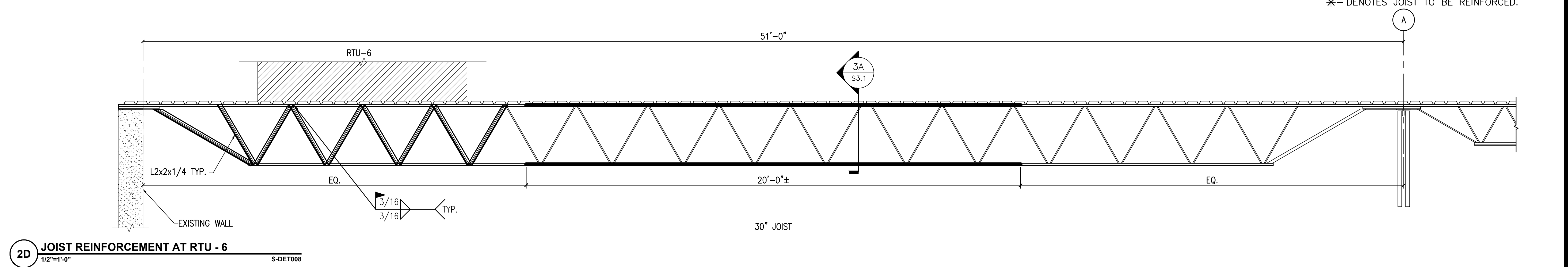


1D ROOF LADDER DETAIL
1/2"=1'-0" S-DET018

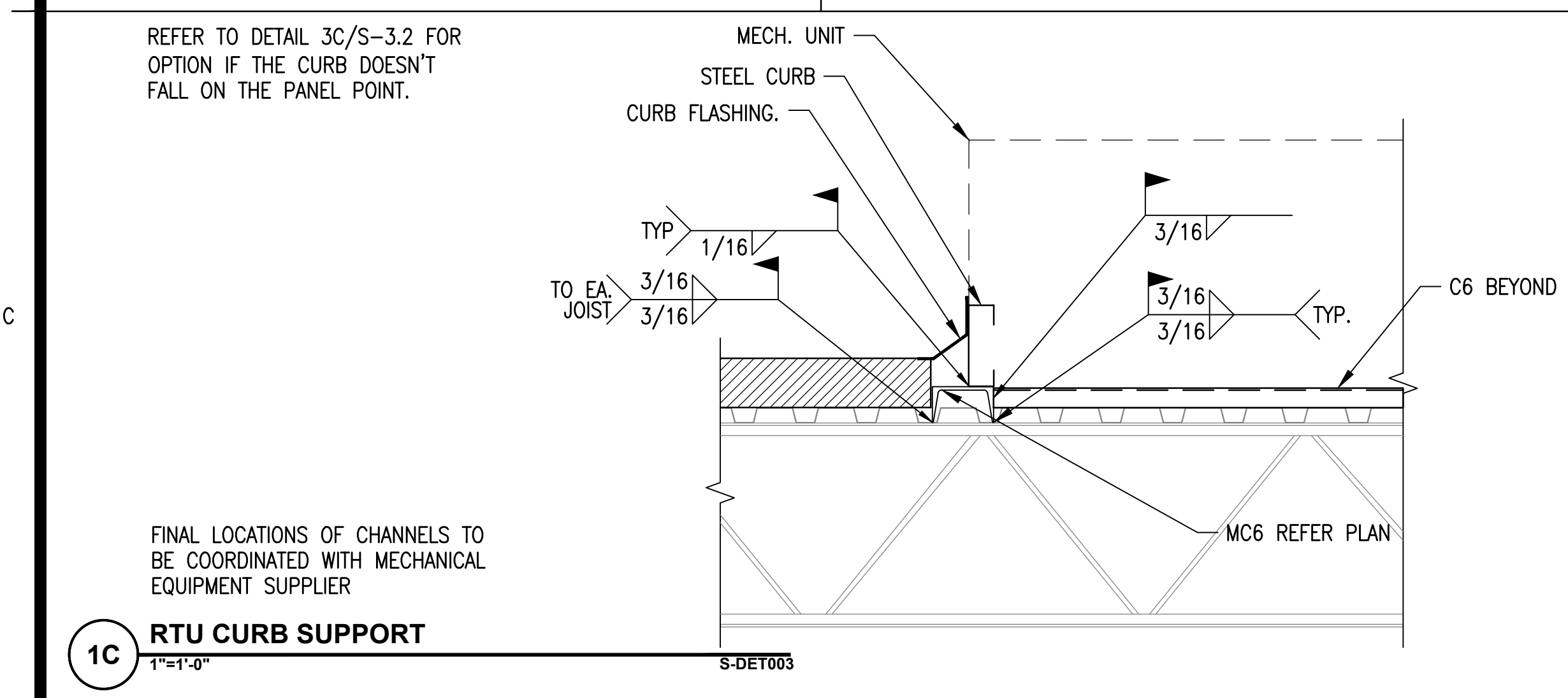
NOTES:
1. FIELD VERIFY REQUIRED LADDER HEIGHT
2. FIELD VERIFY EXACT LOCATION OF LADDER
3. LADDER SHOULD BE PAINTED SAFETY YELLOW



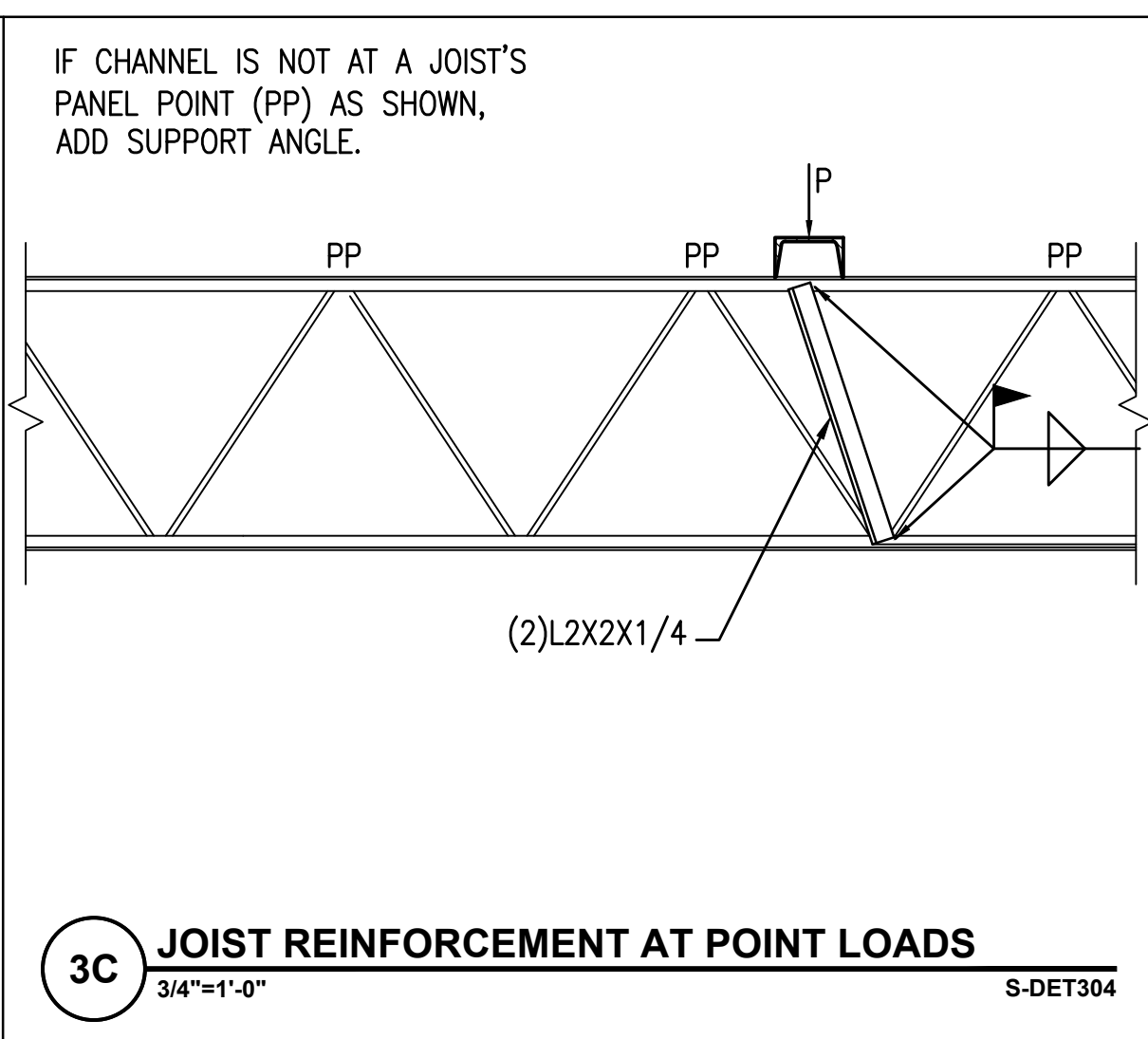
3E JOIST REINFORCEMENT AT RTU - 3 & RTU 5
1/2"=1'-0" S-DET007



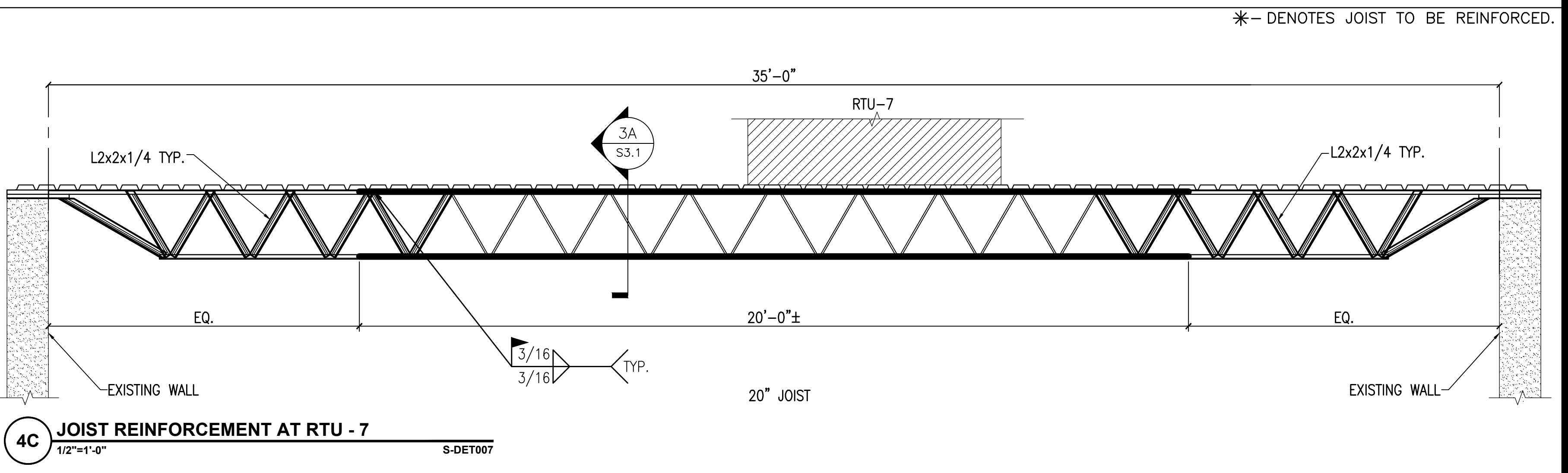
2D JOIST REINFORCEMENT AT RTU - 6
1/2"=1'-0" S-DET008



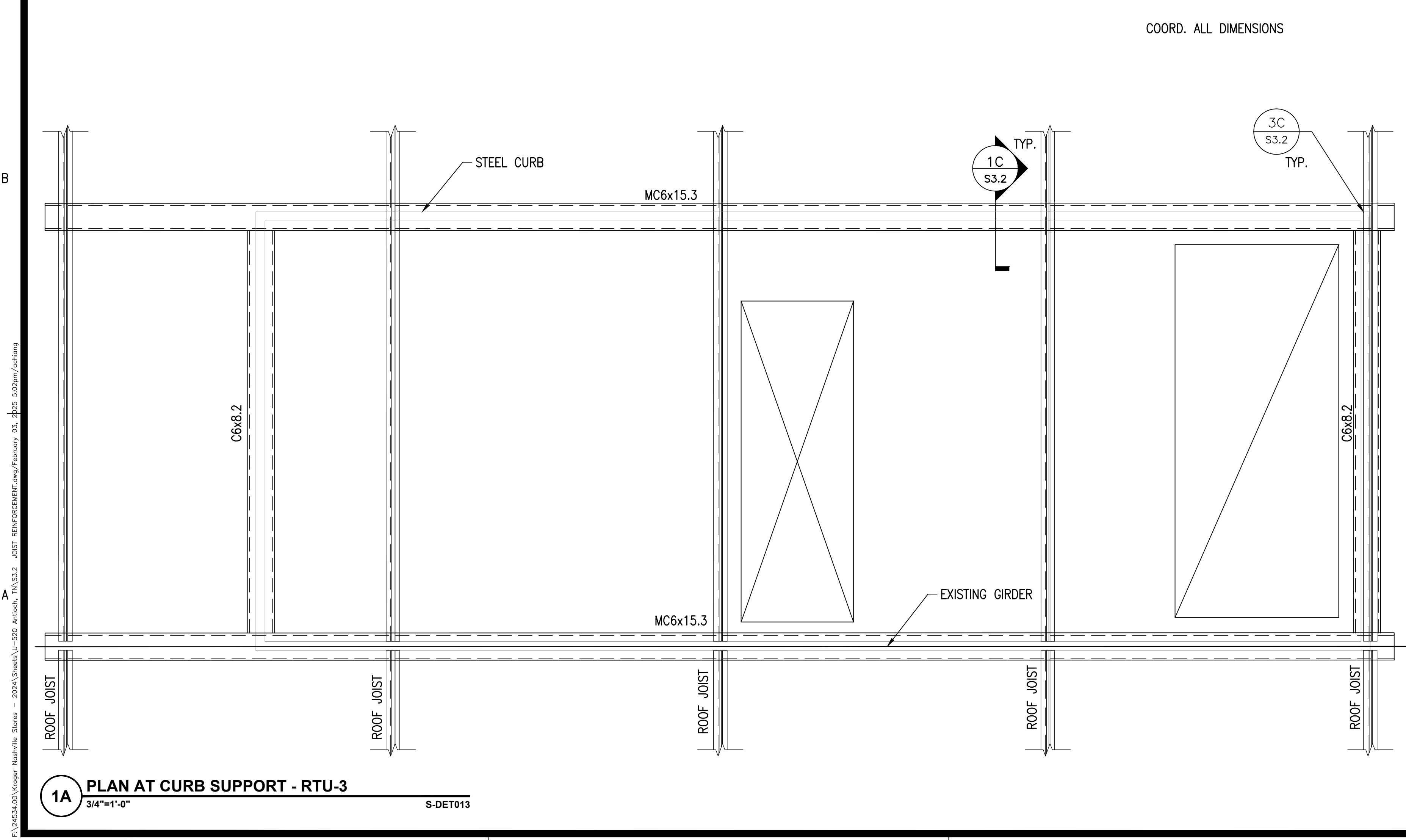
1C RTU CURB SUPPORT
1"=1'-0" S-DET003



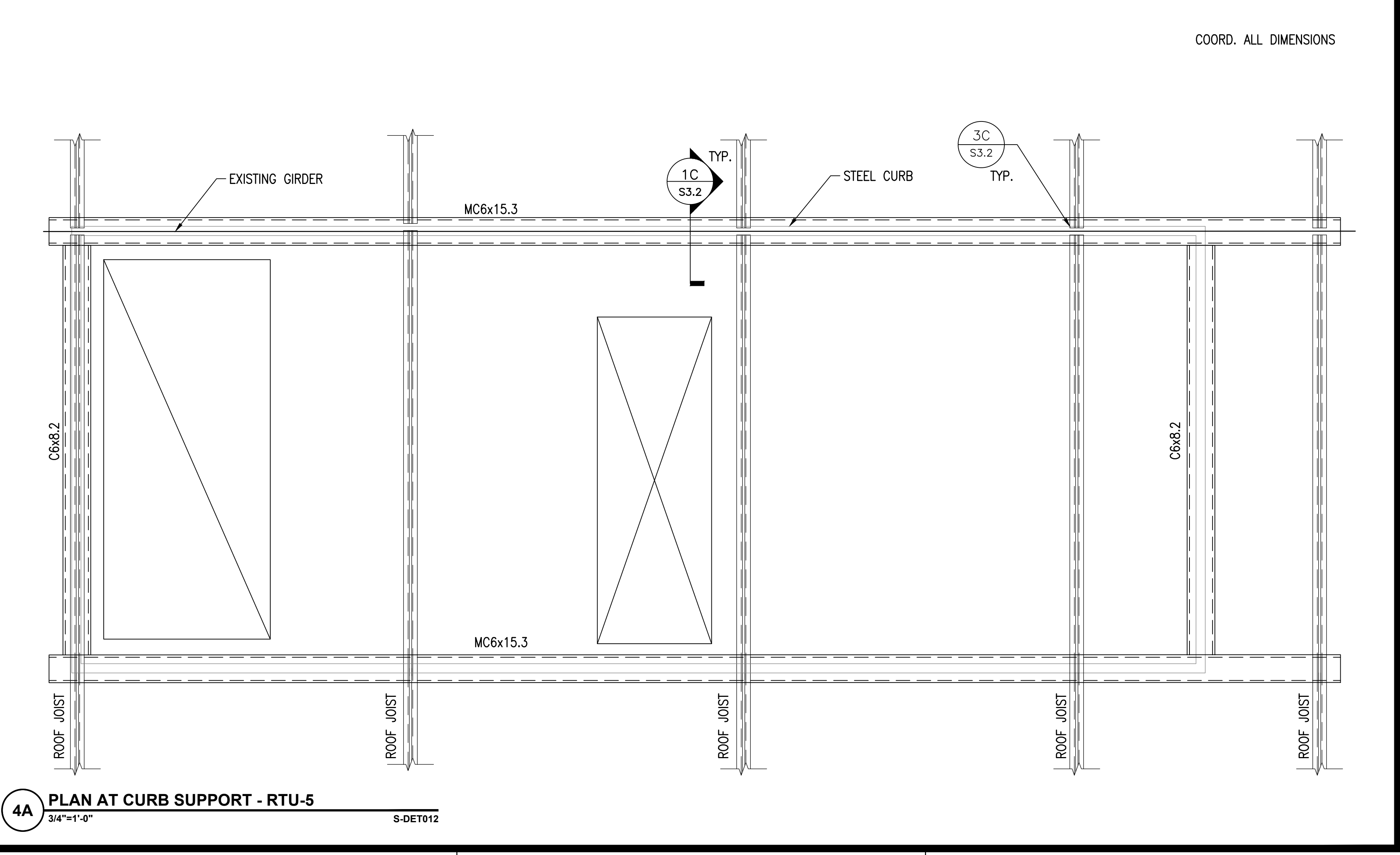
3C JOIST REINFORCEMENT AT POINT LOADS
3/4"=1'-0" S-DET304



4C JOIST REINFORCEMENT AT RTU - 7
1/2"=1'-0" S-DET007



1A PLAN AT CURB SUPPORT - RTU-3
3/4"=1'-0" S-DET013



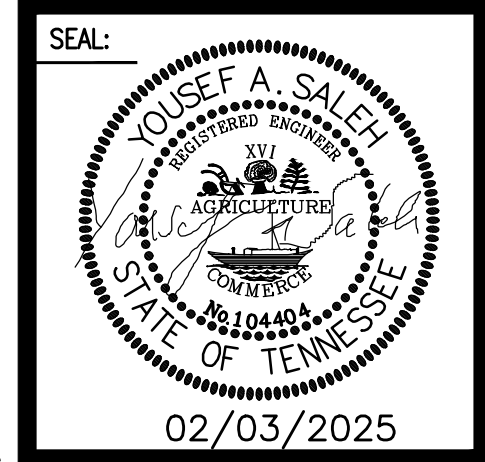
4A PLAN AT CURB SUPPORT - RTU-5
3/4"=1'-0" S-DET012

REVISIONS:

PROJECT #: 24534.00
DATE: FEB 03, 2025
DRAWN BY: AC
DESIGNER: YAS
CHECKED BY: YAS



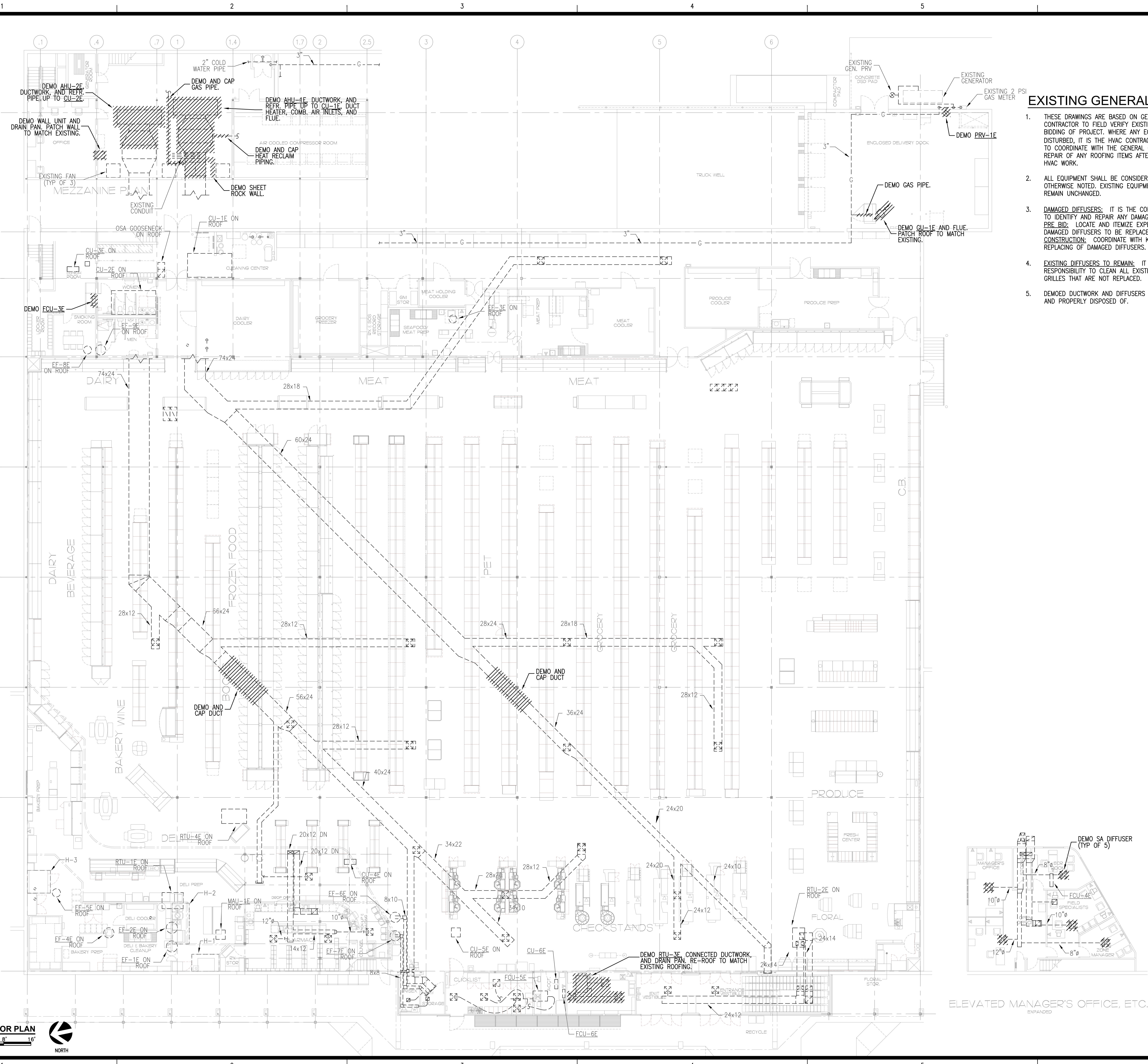
**KROGER STORE U-520
HVAC REMODEL**
5319 MOUNT VIEW RD
ANTIOCH, TN 37013



SHEET NUMBER:
S3.2
DESCRIPTION:
JOIST REINFORCEMENT

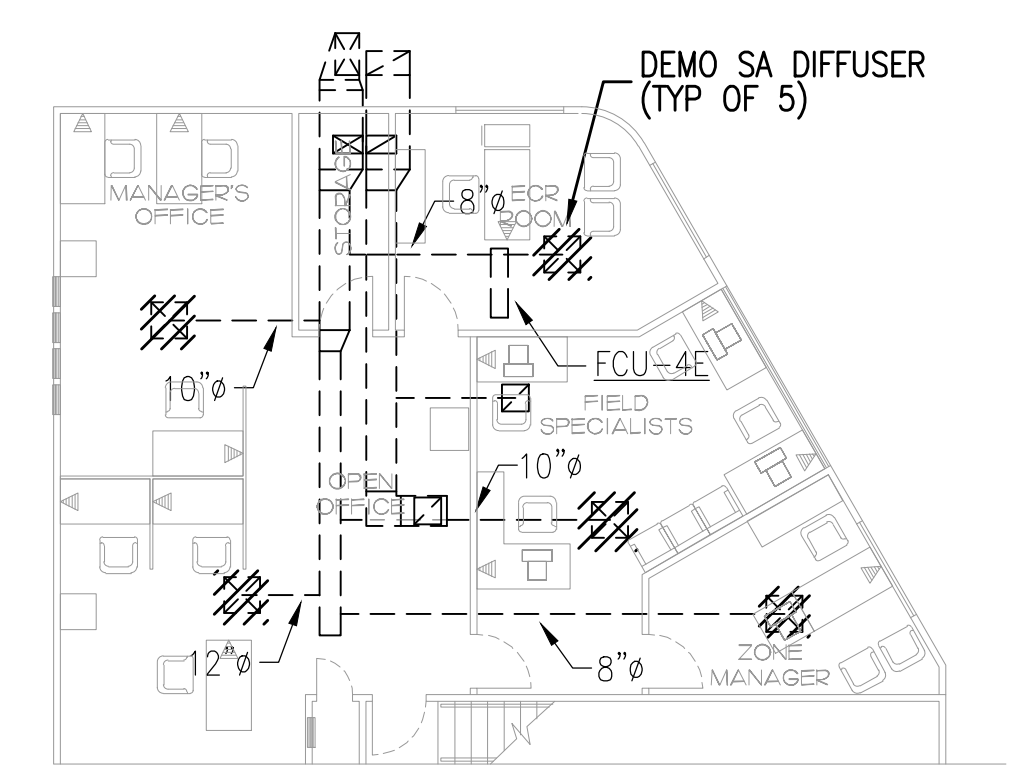
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BID SET



EXISTING GENERAL HVAC NOTES

1. THESE DRAWINGS ARE BASED ON GENERAL STORE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING OF PROJECT. WHERE ANY EQUIPMENT ON ROOF IS DISTURBED, IT IS THE HVAC CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REPAIR OF ANY ROOFING ITEMS AFTER THE COMPLETION OF HVAC WORK.
2. ALL EQUIPMENT SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT NOT SHOWN SHALL REMAIN UNCHANGED.
3. **DAMAGED DIFFUSERS:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND REPAIR ANY DAMAGED DIFFUSERS. **PRE-BID:** LOCATE AND ITEMIZE EXPECTED QUANTITY OF DAMAGED DIFFUSERS TO BE REPLACED. **CONSTRUCTION:** COORDINATE WITH KROGER ENGINEER FOR REPLACING OF DAMAGED DIFFUSERS.
4. **EXISTING DIFFUSERS TO REMAIN:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ALL EXISTING DIFFUSERS AND RETURN GRILLES THAT ARE NOT REPLACED.
5. DEMOED DUCTWORK AND DIFFUSERS SHALL BE TAKEN DOWN AND PROPERLY DISPOSED OF.



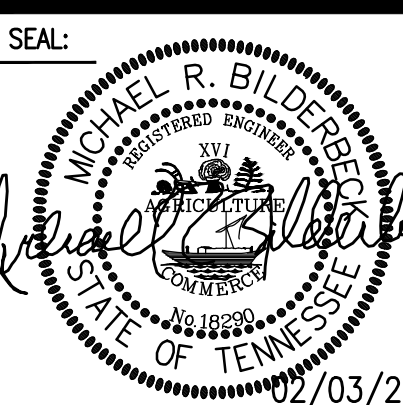
1A HVAC DEMO FLOOR PLAN
 3/32" = 1'-0"
 0' 4' 8' 16'
 NORTH

REVISIONS:

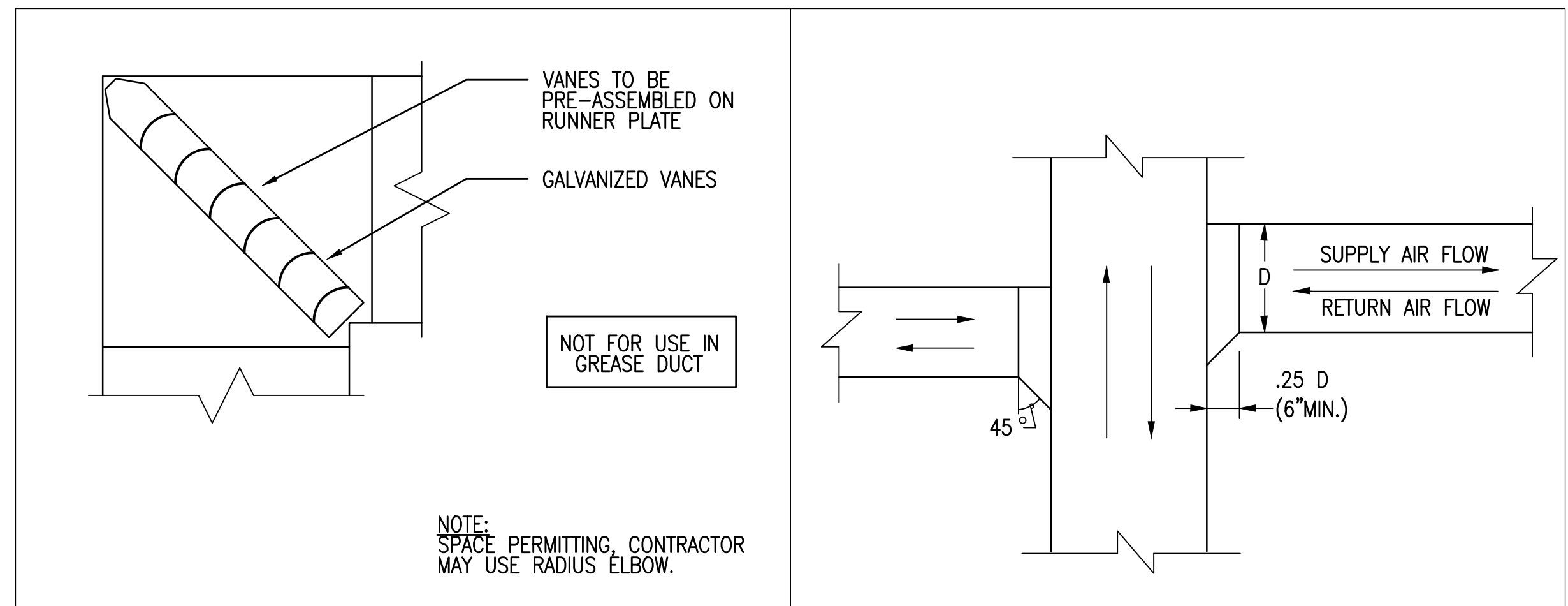
PROJECT #: 24534.00
 DATE: FEB 03, 2025
 DRAWN BY: MWH
 DESIGNER: MWH
 CHECKED BY: MRB



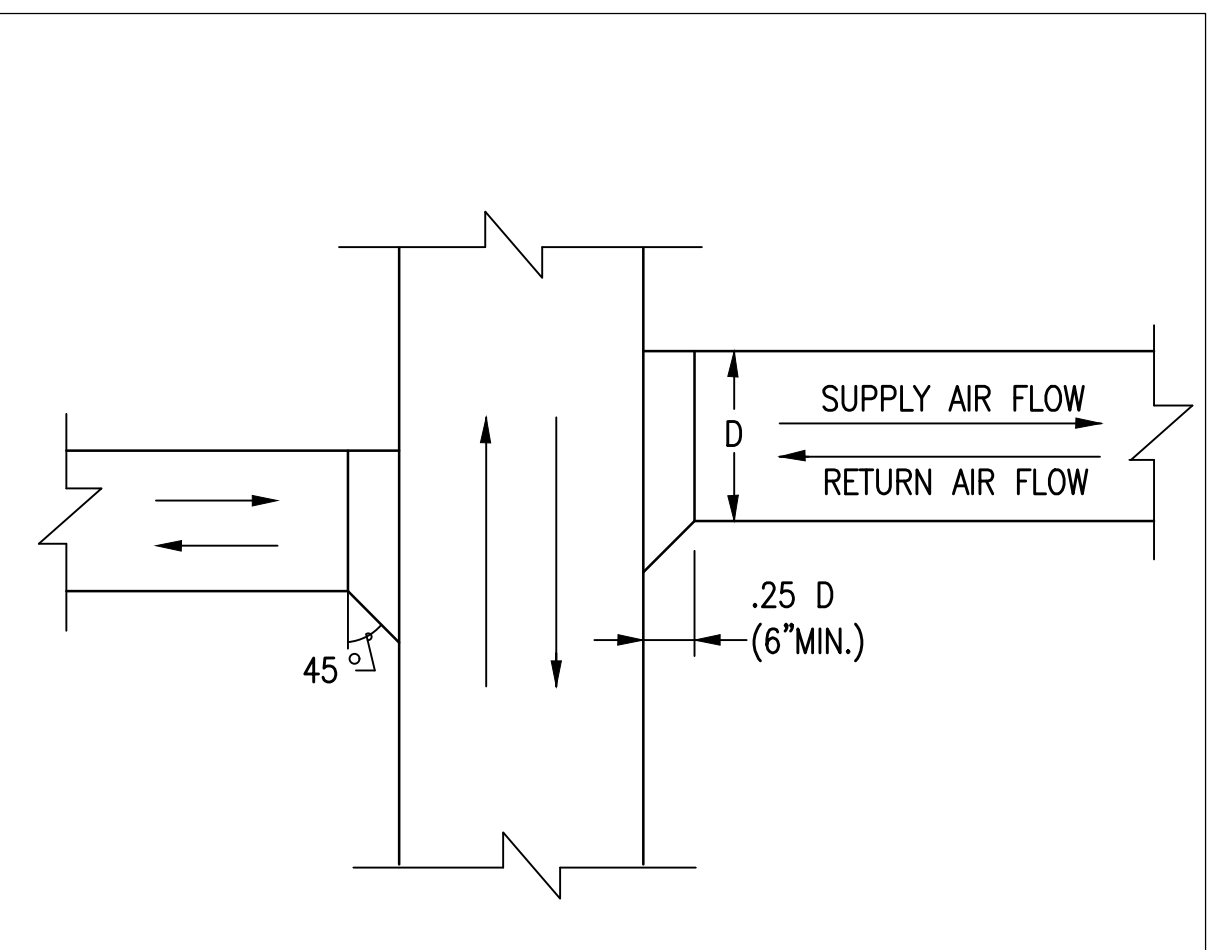
**KROGER STORE U-520
 HVAC REMODEL**
 5319 MOUNT VIEW RD
 ANTIPOCH, TN 37013



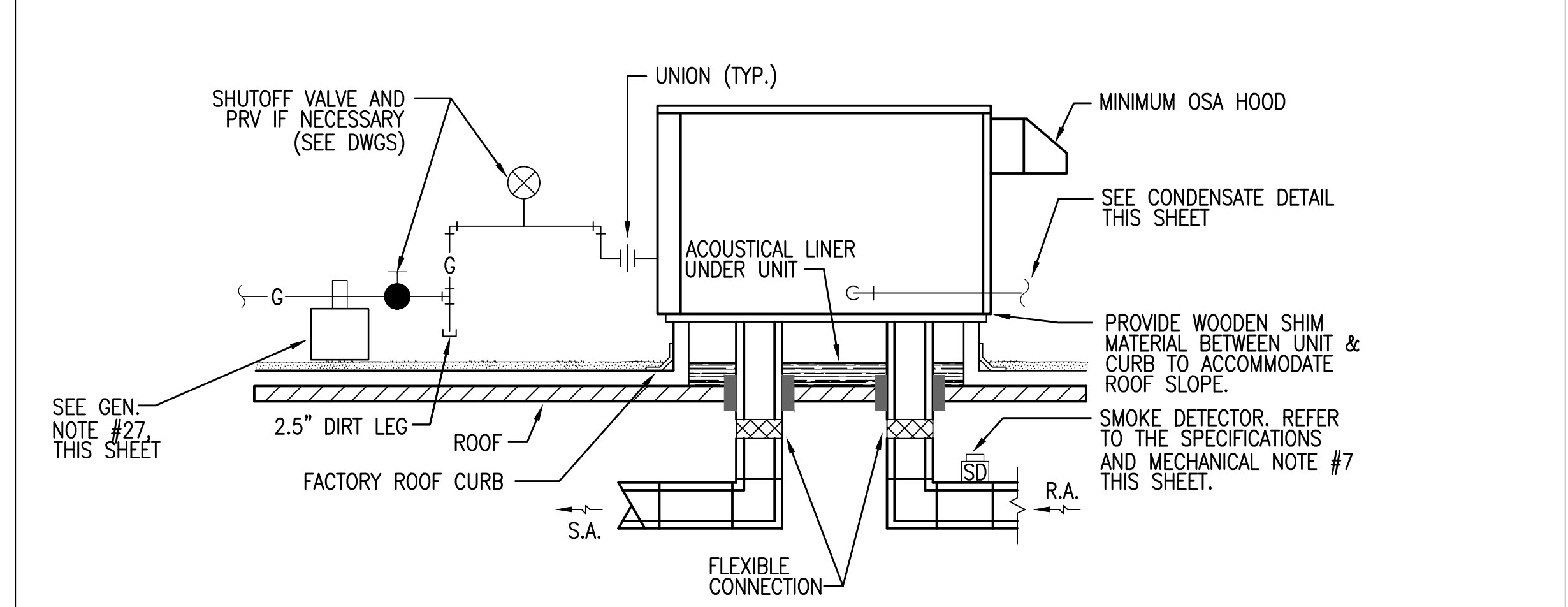
SHEET NUMBER:
MD1.1
 DESCRIPTION:
 HVAC DEMO PLAN



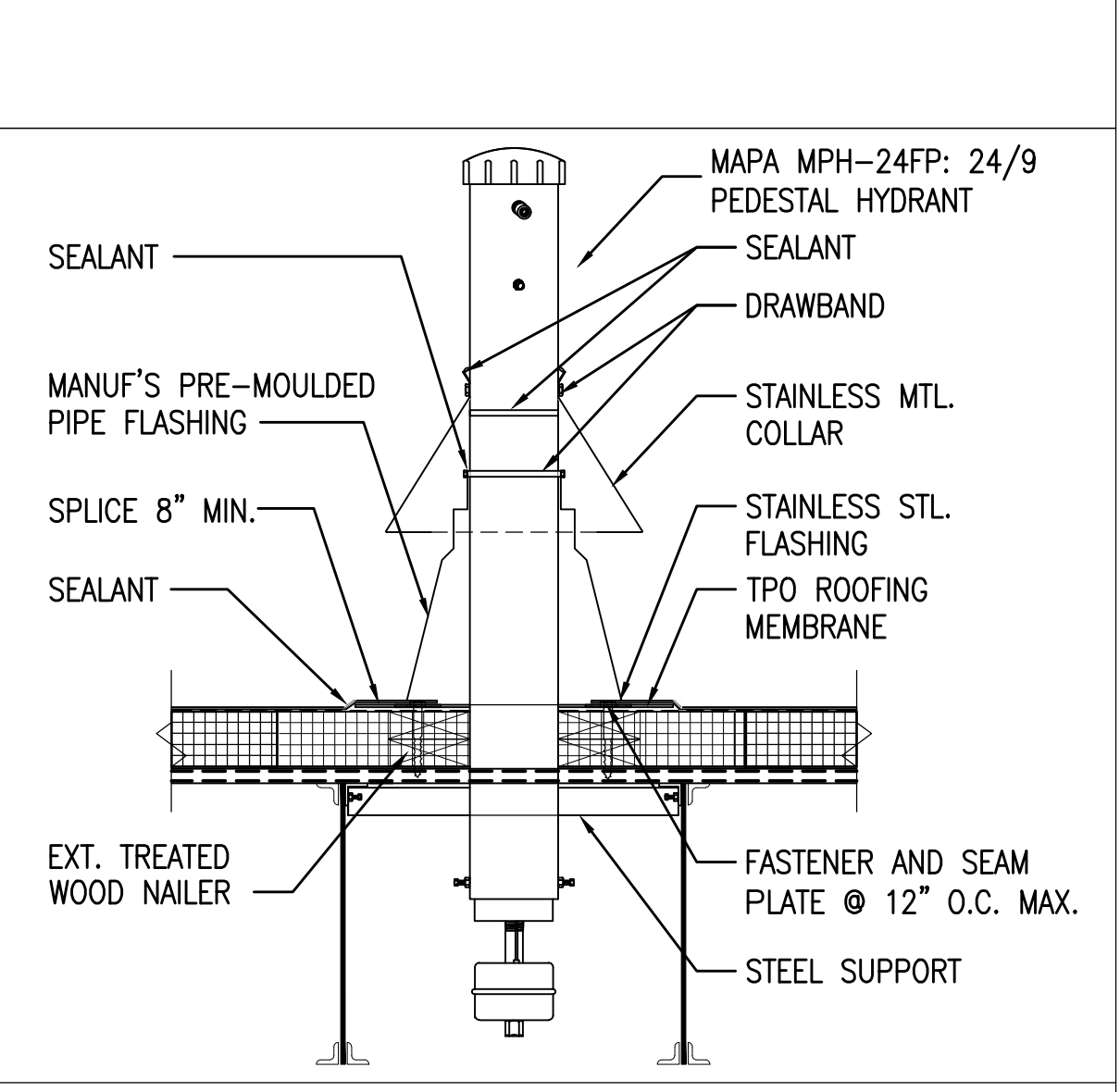
1E SQUARE ELBOW WITH TURNING VANES
N.T.S.



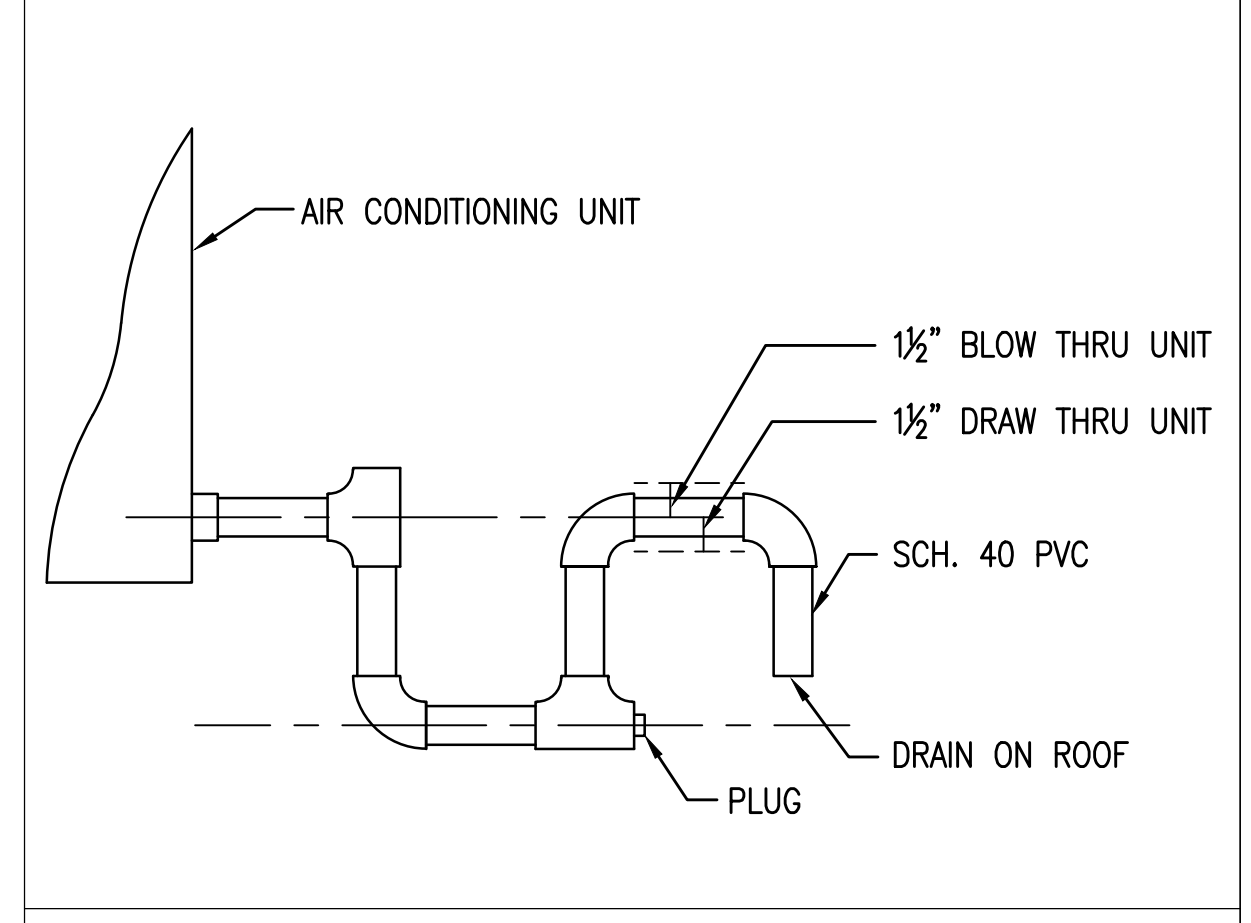
2E BRANCH DUCT DETAIL
N.T.S.



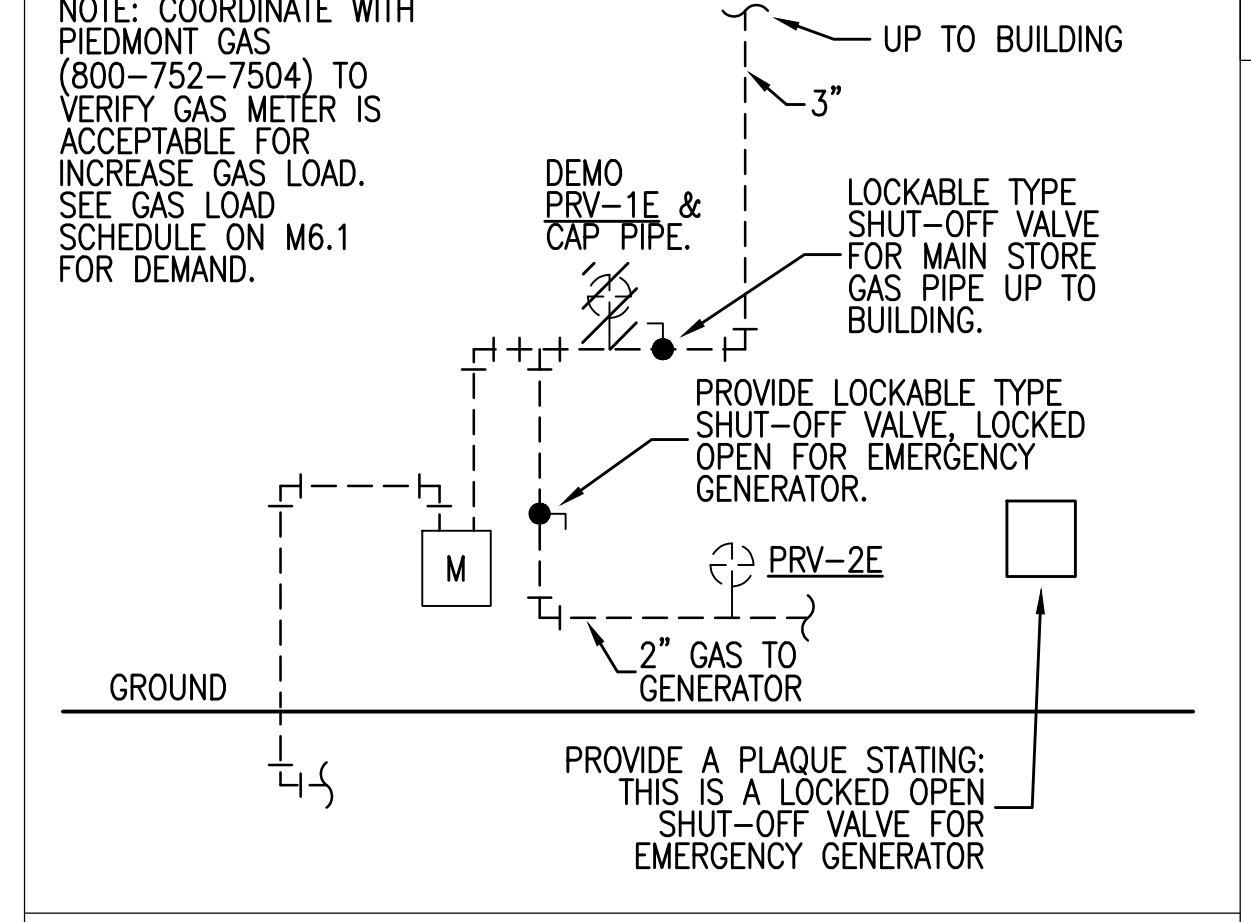
1D ROOF TOP UNIT DETAIL
N.T.S.



1A ROOF HOSE BIBB DETAIL
N.T.S.



1C CONDENSATE TRAP
N.T.S.

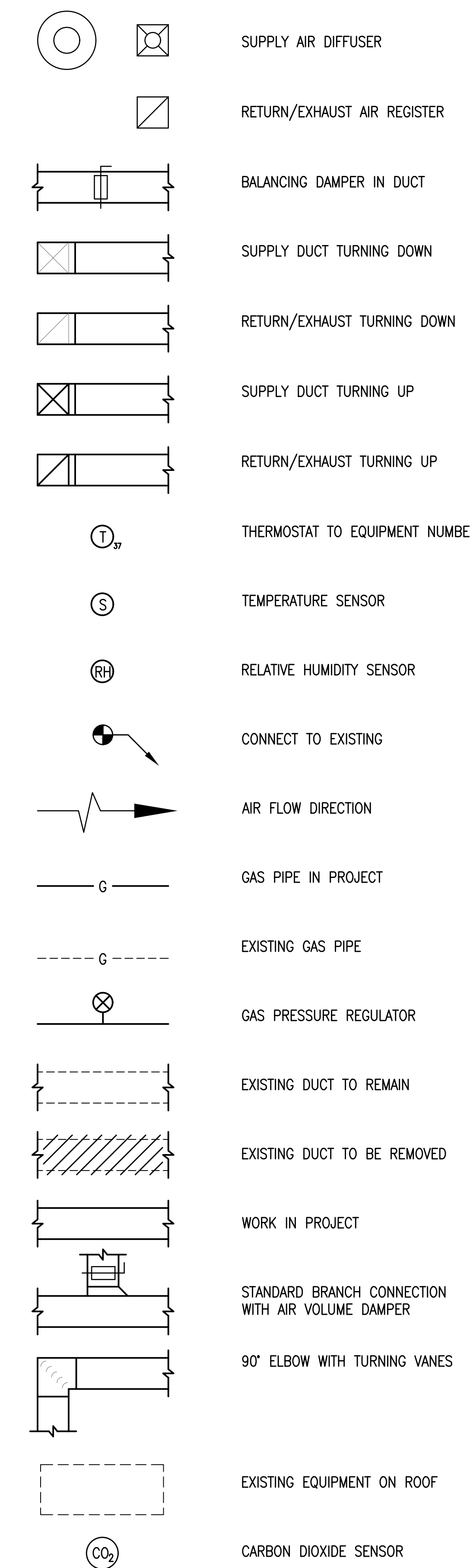


1B GAS METER SCHEMATIC
N.T.S.

GENERAL HVAC NOTES

- EVERYTHING NECESSARY FOR A COMPLETE, SAFE AND SATISFACTORY INSTALLATION, INCLUDING ALL NECESSARY PARTS, DEVICES, ACCESSORIES, ETC., REQUIRED, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE.
- THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF DUCTS, AND SUGGEST PROPER ROUTES TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS, AND IT SHALL BE THE WORK OF THE CONTRACTOR TO INSTALL DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
- IT IS INTENDED THAT ALL APPARATUS BE LOCATED SYMMETRICAL WITH ARCHITECTURAL ELEMENTS.
- THE CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THE CONTRACT. HE SHALL EXERCISE DUE AND PARTICULAR CAUTION TO DETERMINE THAT ALL PARTS OF HIS WORK ARE MADE QUICKLY AND EASILY ACCESSIBLE.
- THE CONTRACTOR SHALL BE GUIDED BY THE CONDITIONS EXISTING AT THE JOB, CORRELATING THIS WORK WITH THAT OF THE OTHER TRADES, AND REPORT TO THE DESIGNER ANY DISCREPANCIES OR INTERFERENCES THAT ARE DISCOVERED. FAILURE TO REPORT SUCH DISCREPANCIES AND INTERFERENCES SHALL RESULT IN THE CORRECTING OF THESE ERRORS AND OMISSIONS AT HIS OWN EXPENSE. ALL WORK INSTALLED UNDER THIS DIVISION WHICH DEVIATES FROM THE DRAWINGS AND SPECIFICATIONS WITHOUT PRIOR APPROVAL OF THE DESIGNER SHALL BE ALTERED BY THE CONTRACTOR AT HIS OWN EXPENSE TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS AS DIRECTED BY THE DESIGNER.
- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH. IF, TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS OR SPECIFICATIONS ARE AT VARIANCE WITH THE ABOVE MENTIONED LAWS, RULES AND REGULATIONS, HE SHALL PROMPTLY NOTIFY THE DESIGNER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT.
- IN AIR SYSTEMS GREATER THAN 2,000 CFM THAT SERVE MULTIPLE ENCLOSED SPACES, SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN AIR STREAM AHEAD OF THE AIR FILTERS AND DOWNSTREAM OF ANY BRANCH CONNECTIONS PRIOR TO FRESH AIR INTAKE. SMOKE DETECTORS SHALL AUTOMATICALLY SHUTDOWN THE RTU WHEN SMOKE IS DETECTED IN THE DUCT.
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, WORKING CONDITIONS TO BE ENCOUNTERED, ETC.
- ALL WORK AND EQUIPMENT SHALL BE WARRANTED FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER REGARDLESS OF THE DATE OF SHIPMENT.
- THE DESIGNER RESERVES THE RIGHT TO REJECT ANY MATERIALS AND WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS OR MEETING THE DESIGNER'S APPROVAL, EITHER BEFORE OR AFTER INSTALLATION.
- MATERIALS AND/OR EQUIPMENT SPECIFIED HEREIN ARE USED AS A STANDARD. OTHER MATERIALS AND/OR EQUIPMENT MAY BE SUBSTITUTED PROVIDED THEY MEET OR EXCEED QUALITY, CAPACITIES AND SPACE REQUIREMENTS.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS. ALL DUCTWORK DIMENSIONS ARE ACTUAL SHEET METAL DIMENSIONS. ALL DUCTWORK ENCLOSED BY CEILING OR WALL SHALL BE INSULATED. EXPOSED DUCTWORK DOES NOT REQUIRE INSULATION.
- DUCT INSULATION INSIDE BUILDING SHALL BE R-6 FOIL BACKED FIBERGLASS. FOR ALL DUCT IN WORK, UNLESS NOTES OTHERWISE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED FOR THIS WORK.
- PROVIDE CONDENSATE DRAINS FOR ALL EQUIPMENT REQUIRING THEM WHERE POSSIBLE. ALL CONDENSATE DRAINAGE PIPING SHALL BE SCHEDULE 80 PVC WITH SOCKET JOINTS USING SOLVENT CEMENT. SUPPORT CONDENSATE PIPING ABOVE ROOF ON MIRO SUPPORT MODEL 1.5 W/ PIPE ZIP-TIED TO SUPPORT. THE PIPE SUPPORT SHALL BE GLUED TO THE ROOF. PIPING SHALL RUN FULL SIZE OF THE CONNECTION AND SHALL HAVE AN ADEQUATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT UPSTREAM OF THE TRAP.
- ALL RTUS TO BE CONTROLLED BY AN OWNER PROVIDED ENERGY MANAGEMENT SYSTEM.
- COORDINATE ACTIVATION/CONTROL OF EQUIPMENT/SYSTEMS WITH PHASING PLAN. PROVIDE TEMPORARY CONTROLS AS REQUIRED FOR COMPLETED PHASES TO BE FUNCTIONAL FOR STORE OPERATIONS.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE. 2-INCHES AND SMALLER FITTINGS SHALL BE MALLEABLE IRON THREADED. 2-1/2-INCHES AND LARGER FITTINGS SHALL BE WROUGHT-STEEL BUTTWELDED. PROVIDE DIRT LEG & CUTOFF VALVE AT CONNECTION TO UNIT.
- CONTRACTOR SHALL PROVIDE ELECTRONIC SUBMITTALS OF ALL EQUIPMENT/MATERIALS TO OWNER'S PROJECT MANAGER.
- CONTRACTOR SHALL PROVIDE RTU START-UP BY AN RTU MANUFACTURER-AUTHORIZED AGENCY/TECHNICIAN. START-UP AGENT SHALL COMPLETE AN RTU MANUFACTURER TEST/CHECKLIST FORM, PROVIDED BY OWNER.
- CONTRACTOR SHALL INSTALL EM CABLING TO RTUS AND ASSOCIATED DEVICES. PRE-APPROVED SUB-CONTRACTOR WILL TERMINATE THE WIRE & PROGRAM EMS.
- CONTRACTOR SHALL PERMANENTLY LABEL ALL RTUS WITH ENGRAVED PLATES ATTACHED TO RTUS WITH SCREWS.
- CONTRACTOR SHALL PERFORM THE WORK ON THE ROOF AT ANY TIME. WORK INSIDE THE BACK ROOM SHALL BE PERFORMED BETWEEN THE HOURS OF 9PM AND 10AM, ANY DAY OF THE WEEK. CONTRACTOR SHALL KEEP BACK ROOM AREAS CLEAN AT ALL TIMES.
- OWNER WILL REMOVE THE REFRIGERANT FROM HEAT RECOVERY COIL/PIPE AND CUT PIPING FREE FOR CONTRACTOR TO DEMOLISH THE UNIT. CONTRACTOR WILL PROVIDE HEAT RECOVERY PIPING. OWNER WILL PROVIDE REFRIGERANT CHARGE AFTER CONTRACTOR HAS COMPLETED THE WORK.
- CLEAN AND PAINT ALL NEW AND EXISTING EXTERIOR GAS PIPE. COLOR SHALL BE SAFETY YELLOW.
- PROVIDE MOLDED PLASTIC WRAP-AROUND LABELS ON GAS PIPE INSTALLED IN THIS WORK. INDICATE GAS PRESSURE ON LABEL.
- SUPPORT ALL GAS PIPE ABOVE ROOF ON MIRO 3-R-2 W/ PIPE STRAP. PLACE SUPPORT ON A LAYER OF ROOFING MATERIAL.
- ALL ROOF EQUIPMENT INSTALLED IN THIS PROJECT, THAT WILL REQUIRE MAINTENANCE, SHALL BE NO LESS THAN 10' AWAY FROM THE ROOF'S EDGE.
- CONTRACTOR SHALL USE MAXWELL ROOFING OR DON KENNEDY ROOFING FOR ROOFING SCOPE.
- CONTRACTOR SHALL SUSPEND EQUIPMENT, PIPE, AND DUCT FROM THE TOP CHORD OF JOISTS/JOIST GIRDERS AT PANEL POINTS ONLY.

LEGEND



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BOD	BOTTOM OF DUCT
CFM	CUBIC FEET PER MINUTE
COMP.	COMPRESSOR
CONN.	CONNECTION
CU	CONDENSING UNIT
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	ELECTRIC HEATER
ENT	ENTERING
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FSD	FIRE SMOKE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LVG	LEAVING
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
MOT	MOTORIZED
MSS	MINI SPLIT SYSTEM
NC	NOISE CRITERION
NO.	NUMBER
NOM	NOMINAL
OPER	OPERATING
OSA	OUTSIDE AIR
ΔP	PRESSURE DIFFERENTIAL
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA(R)	RETURN AIR (REGISTER)
RH	RELATIVE HUMIDITY
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SAD	SUPPLY AIR DIFFUSER
SA(R)	SUPPLY AIR (REGISTER)
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TOD	TOP OF DUCT
T'STAT	THERMOSTAT
(TYP)	TYPICAL
VEL	VELOCITY
VOL	VOLUME
WB	WET BULB
VAV	VARIABLE AIR VOLUME

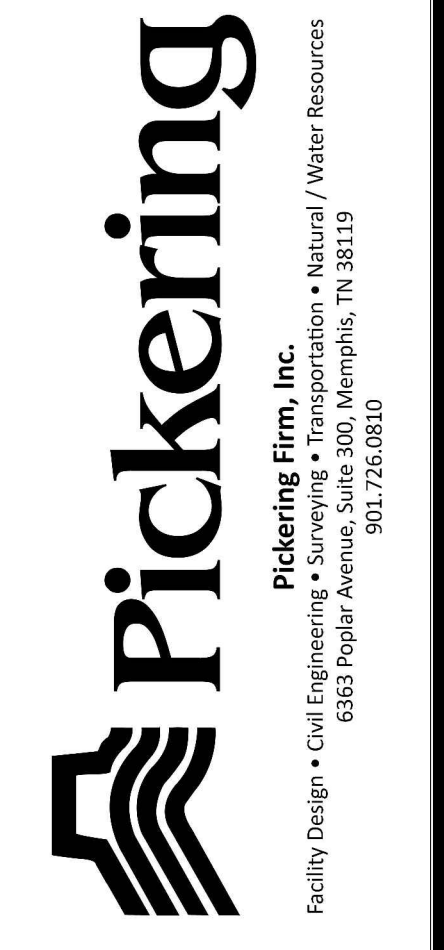
- NOTES TO GENERAL CONTRACTOR REGARDING OWNER SUPPLIED, CONTRACTOR INSTALLED EQUIPMENT:**
- CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM OWNER PROJECT ENGINEER AND COORDINATE WITH VENDOR.
 - CONTRACTOR TO RECEIVE EQUIPMENT, PROVIDE INSPECTION, AND NOTIFY VENDOR & OWNER PROJECT ENGINEER OF MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAYS FOR CONCEALED DAMAGE).
 - CONTRACTOR TO PROVIDE SAFE HARBORING, INSTALLATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
 - CONTRACTOR TO HANDLE ANY WARRANTY CLAIMS (PRIOR TO STORE OPENING) DIRECTLY WITH VENDOR.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

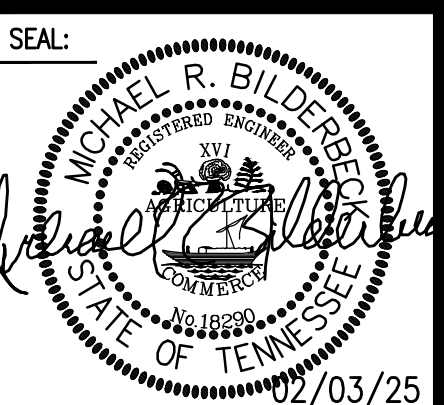
GENERAL CONTRACTOR TO MODIFY SPRINKLER SYSTEM AND/OR RELOCATE/ADD SPRINKLERS AS REQUIRED TO COMPLETE PROJECT

REVISIONS:

PROJECT #: 24534.00
DATE: FEB 03, 2025
DRAWN BY: MMH
DESIGNER: MMH
CHECKED BY: MRB



KROGER STORE U-520 HVAC REMODEL
5319 MOUNT VIEW RD
ANTIOCH, TN 37013

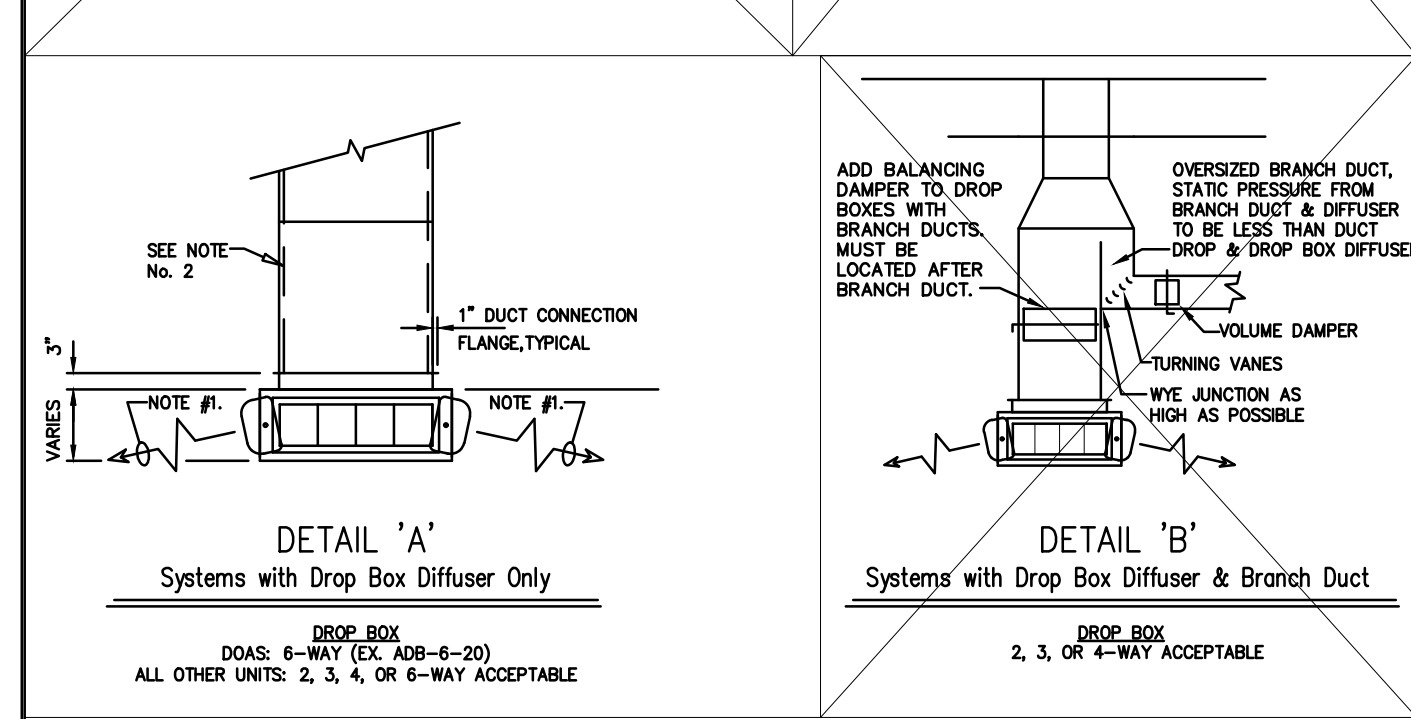
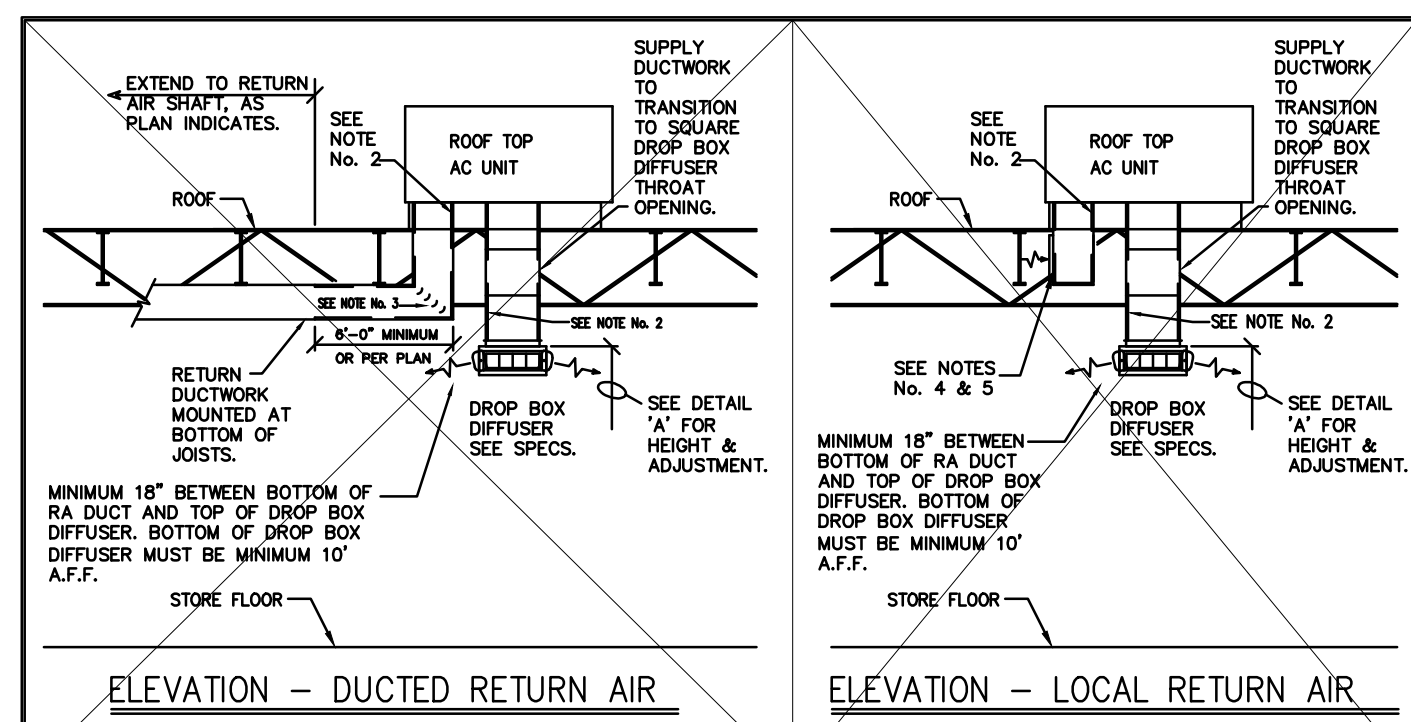


SHEET NUMBER:

M0.1

DESCRIPTION:
MECHANICAL SYMBOLS AND GENERAL NOTES

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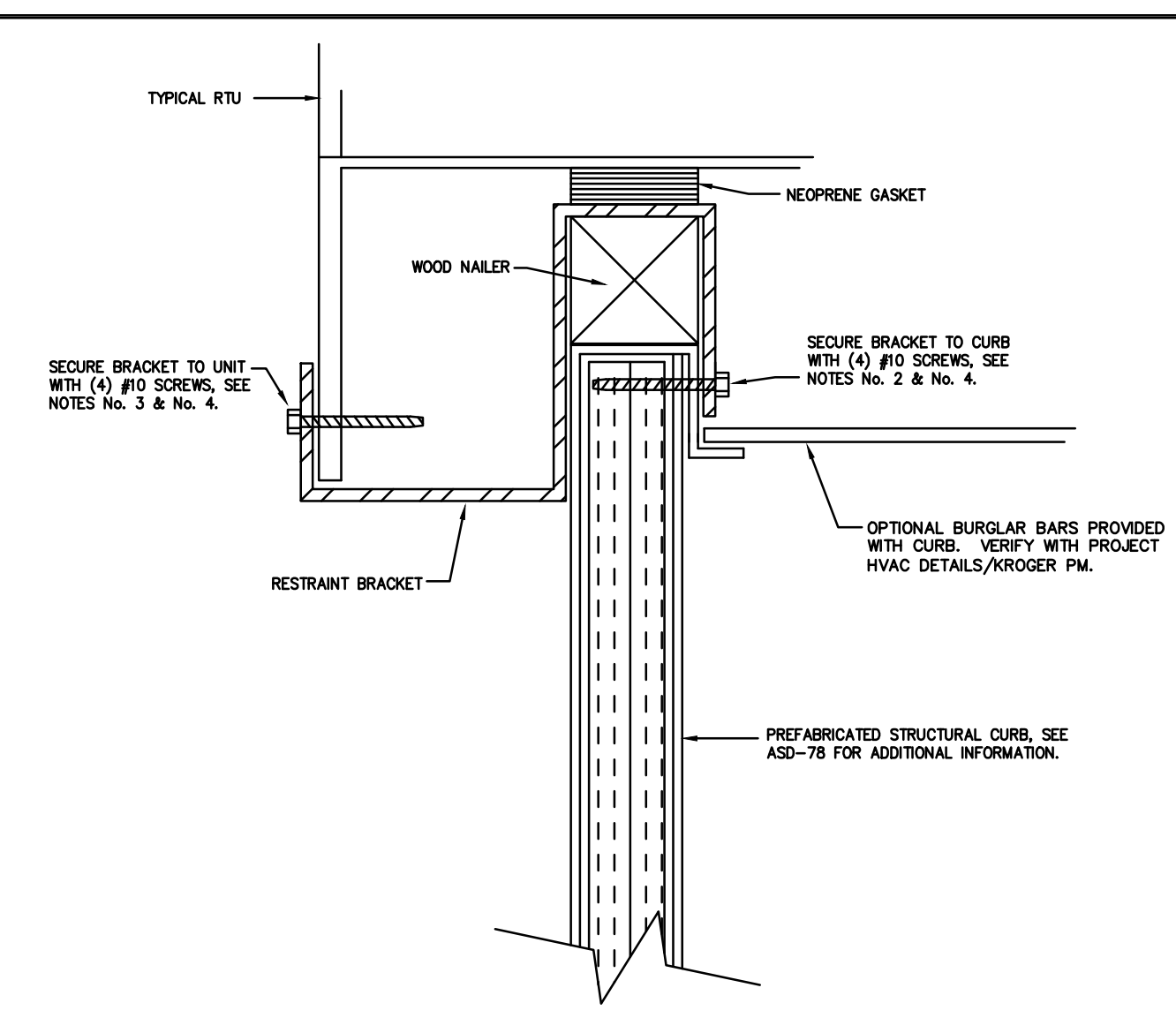


NOTE:

- EACH DIFFUSER LOWER ANGLE OF REFLECTION MUST BE ADJUSTED SO THE SUPPLY AIR DOES NOT CAUSE LIGHT FLUTTER & DROOP. BELLS MOVEMENT OR EXCEED A VELOCITY OF 50 FPM AT THE FACE OF ANY REFRIGERATED DISPLAY CASE, INCLUDING ISLAND CASES. OTHERWISE, ADJUST LOWERED DAMPERS TO DISTRIBUTE AIR INTO THE SALES AREA. TANK CASE NOT TO DISCOMFORT CUSTOMERS.
- PROVIDE SUPPLY & RETURN AIR DUCTWORK WITH LINER. SEE SPECIFICATIONS.
- PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE DUCT MITERED ELBOWS.
- RETURN AIR GRILLE IN SIDE OF DUCT DROP TO BE 2 INCHES OF 1/2" OPENINGS OR EQUAL. SEE GRILLE MANUFACTURER'S LITERATURE AND APPROX. 1/2" NORTH OF RTU RETURN AIR OPENING. (EX. 28" X 10" RETURN AIR OPENING = 28" X 10" RETURN AIR GRILLE, ROUND UP TO STANDARD SIZE.)
- RETURN AIR GRILLE TO BE MOUNTED OPPOSITE OF SUPPLY DUCT DROP. MINIMUM DISTANCE OF RETURN AIR DROP BELOW ROOF DECK.

DROP BOX DIFFUSER	DATE: 5/15/19 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	HSD-1

ORIGINAL ISSUE DATE 2/20/06

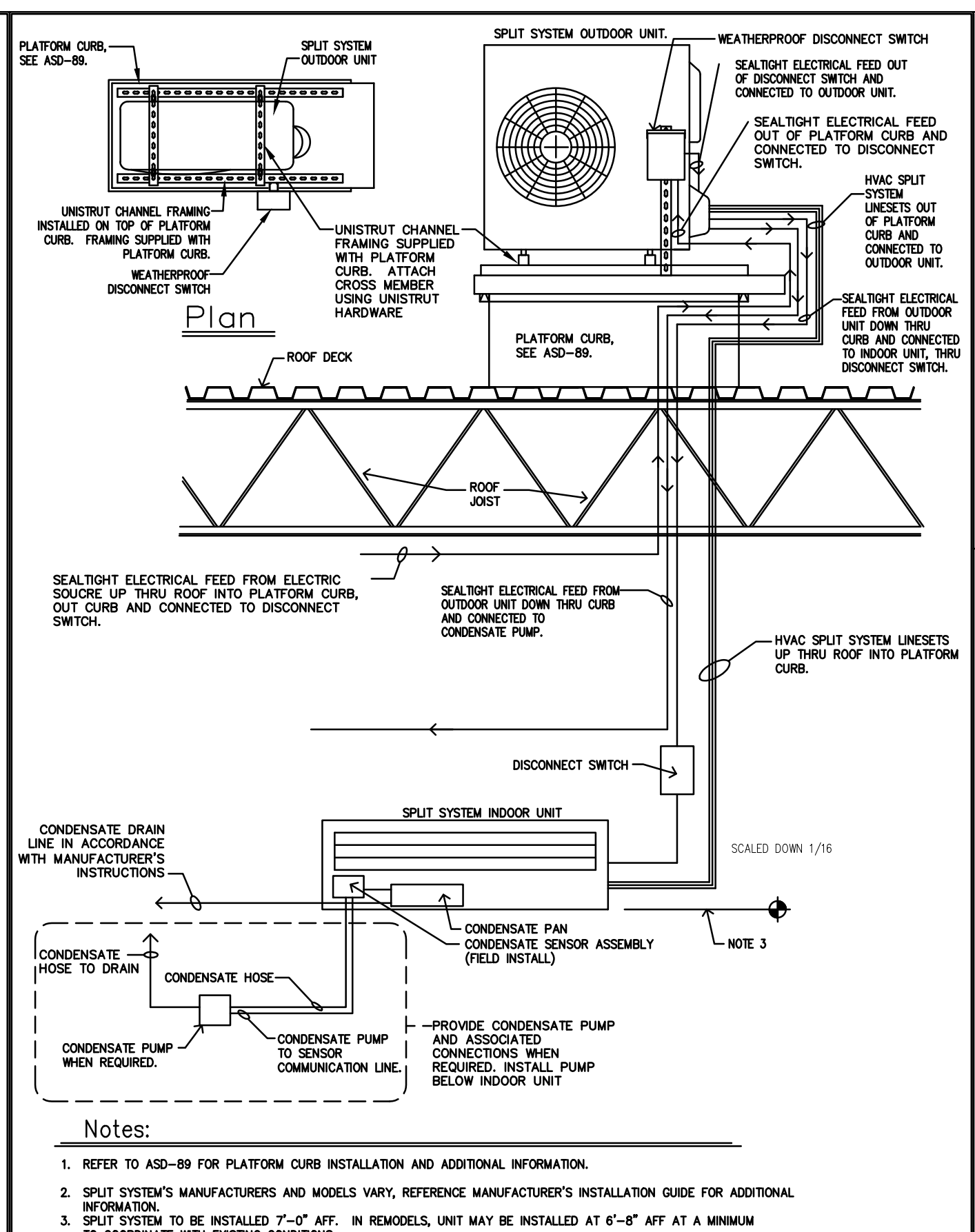


NOTES:

- WIND/SEISMIC BRACKETS, PREFABRICATED STRUCTURAL CURB & RTU ARE SUPPLIED WITH CURBS AND CONTRACTOR INSTALLED.
- ATTACH BRACKET TO INSIDE TOP OF CURB USING TEN SCREWS SUPPLIED AS SHOWN -- ATTACH MOUNTING BRACKET TO CURB BEFORE MOUNTING UNIT ON CURB.
- AFTER SETTING UNIT ON CURB, ATTACH BOTTOM OF BRACKET TO BASE RAIL ON UNIT WITH TEN SCREWS SUPPLIED AS SHOWN.
- BRACKETS AND ATTACHMENT SCREWS ARE PROVIDED WITH EACH CURB AND INCLUDE: (8) 1/4" DIA. STEEL ATTACHMENT BRACKETS (8) 1/4" X 1 1/2" LONG TEN SCREWS. PROVIDE AMPLE NUMBER OF SCREWS. THREE BRACKETS ON EACH LONG SIDE OF CURB EQUALLY SPACED.
- (8) BRACKETS ON 10' CANNOT ONLY.

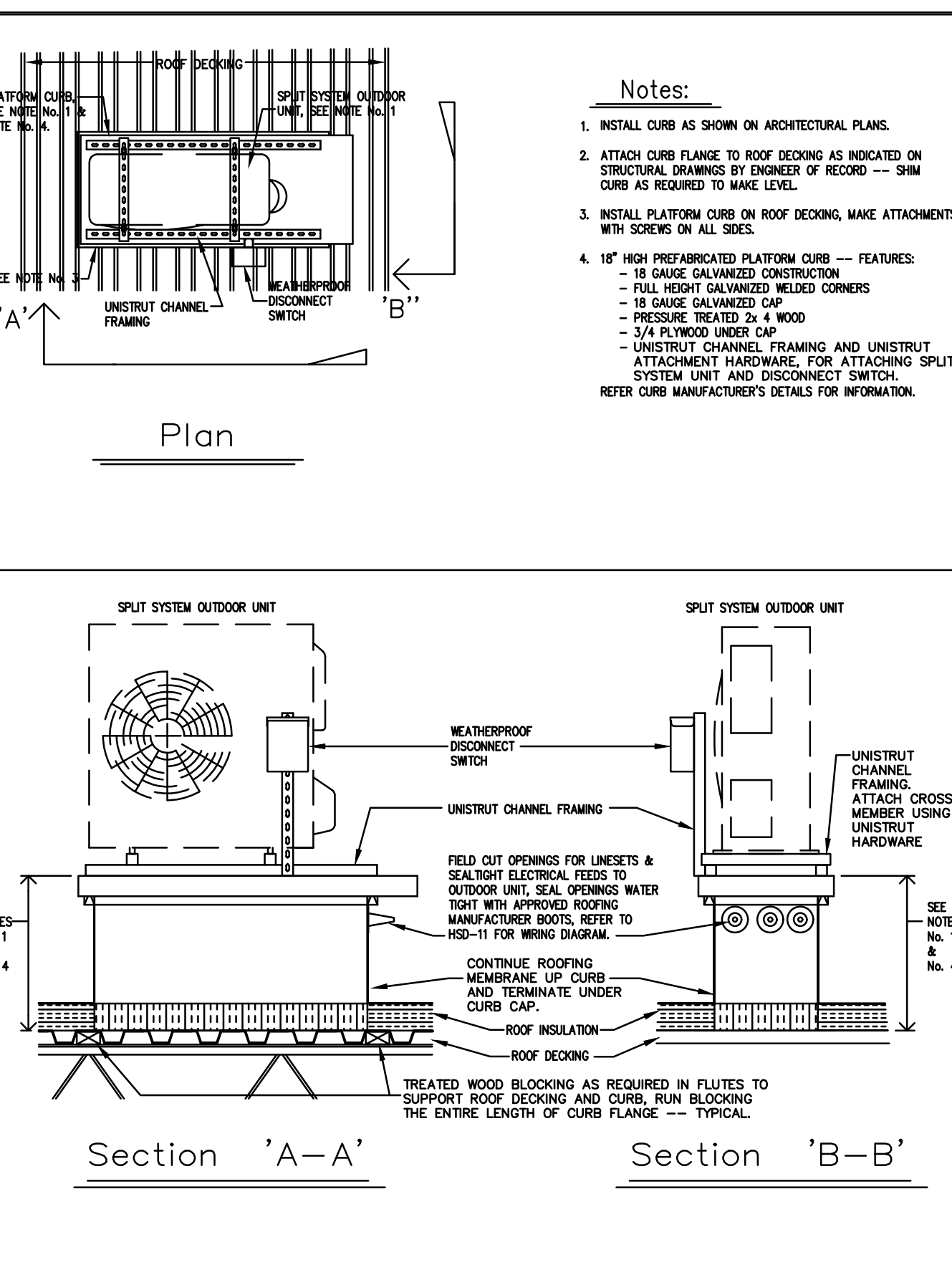
RTU WIND-SEISMIC RESTRAINT BRACKET	DATE: 11/15/17 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	HSD-10

ORIGINAL ISSUE DATE 10/1/09



HVAC SPLIT SYSTEM DIAGRAM	DATE: 6/4/24 SCALE: NONE DRAWN: KAP
MASTER SPECIFICATION DETAIL	HSD-11

ORIGINAL ISSUE DATE 3/11/11

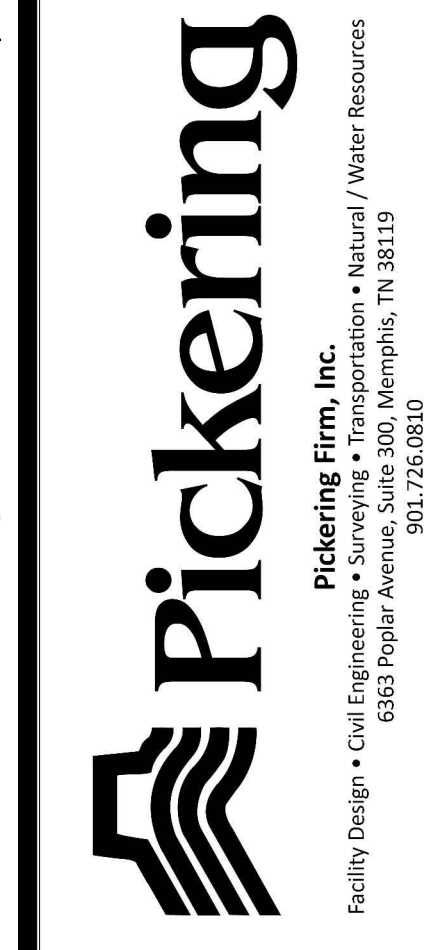


PREFABRICATED NON-STRUCTURAL PLATFORM CURB	DATE: 1/22/18 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ASD-89

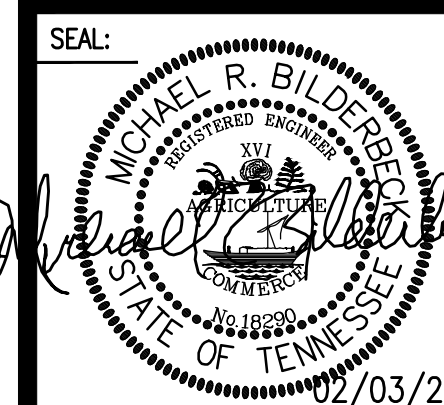
ORIGINAL ISSUE DATE 4/15/11

REVISIONS:	

PROJECT #: 24534.00
DATE: FEB 03, 2025
DRAWN BY: MWH
DESIGNER: MWH
CHECKED BY: MRB



**KROGER STORE U-520
HVAC REMODEL**
5319 MOUNT VIEW RD
ANTIOCH, TN 37013



SHEET NUMBER:
M5.1
DESCRIPTION:
HVAC STANDARD DETAILS (HSD)

ELECTRICAL SPECIFICATIONS

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE APPROXIMATE LOCATIONS AND GENERAL ARRANGEMENTS OF THE ELECTRICAL WORK. COORDINATE THE EXACT LOCATIONS OF DEVICES, ETC. WITH THE MILLWORK, EQUIPMENT AND ARCHITECTURE.
- CONCEAL CONDUITS BELOW FLOORS, WITHIN WALLS AND ABOVE CEILINGS WHERE POSSIBLE.
- TEST ALL FIXTURES, DEVICES AND WIRING FOR PROPER OPERATION AND REMEDY ANY DEFECTS.
- ALL CONDUIT, BOXES, FIXTURES, DEVICES AND WIRING SHALL BE NEW UNLESS OTHERWISE INDICATE ON THE DRAWINGS.
- PROVIDE ALL HANGERS AND SUPPORTS AS REQUIRED. TIE WIRE AND PLASTIC TIE WRAPS ARE NOT ACCEPTABLE.
- ABOVE GRADE CONDUIT SHALL BE EMT.
- CONDUIT FITTINGS SHALL BE ZINC COATED STEEL, RAIN TIGHT COMPRESSION TYPE. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- MINIMUM SIZE CONDUIT SHALL BE 3/4".
- WHERE CONDUITS PENETRATE FIRE RATED PARTITIONS, THEY SHALL BE SEALED IN AN APPROVED MANNER WITH FIRE RATED SEALANT. SEE THE PENETRATION DETAILS ON THE DRAWINGS.
- RUN CONDUITS PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.
- OUTLET BOXES SHALL BE ZINC COATED STEEL, 4 INCH SQUARE OR NON-GANGABLE MULTI-DEVICE BOXES BY 2-1/8 INCHES DEEP WITH PLASTER RINGS. OUTLET BOXES SHALL BE SUPPORTED ON THE STUDS WITH APPROVED DEVICES AND NOT SUPPORTED FROM THE WALL MATERIAL.
- JUNCTION BOXES SHALL BE ZINC COATED STEEL, SIZE AS REQUIRED. 4 INCH SQUARE JUNCTION BOXES AND OUTLET BOXES IN THE CEILING SHALL BE SUPPORTED FROM THE TEE BAR OR CEILING SUPPORT MEMBER WITH A HANGER DESIGNED FOR THE PURPOSE AND NOT THE CEILING MATERIAL. LARGER JUNCTION BOXES SHALL BE SUPPORTED FROM THE STRUCTURE.
- WIRE SHALL BE THWN OR THHN STRANDED COPPER UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE SHALL BE NO. 12.
- WIRE FOR COMMUNICATIONS AND ALARM SHALL BE COPPER OF THE TYPES SPECIFIED AND REQUIRED BY THE SYSTEMS MANUFACTURER.
- COLOR CODING OF THE WIRE SHALL BE THE SAME AS THE EXISTING.
- INSULATION ON WIRING NO. 8 AND SMALLER SHALL BE FACTOR COLOR CODED.
- WIRE CONNECTORS FOR NO. 8 AND SMALLER SHALL BE TOOL APPLIED, INSULATED, TWIST-ON TYPE APPROVED FOR THE WIRE SIZES.
- THE CONTRACTOR SHALL MAKE MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED. PROVIDE NEW DEVICES AS INDICATED ON THE DRAWINGS. REUSE EXISTING DEVICES WHERE POSSIBLE. PROVIDE OUTLET BOXES, CONDUIT, WIRING AND PROGRAMMING AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM.
- DISCONNECT SWITCHES SHALL BE 600V, HEAVY DUTY TYPE WITH PAD LOCK PROVISIONS. GE.

ELECTRICAL ABBREVIATIONS

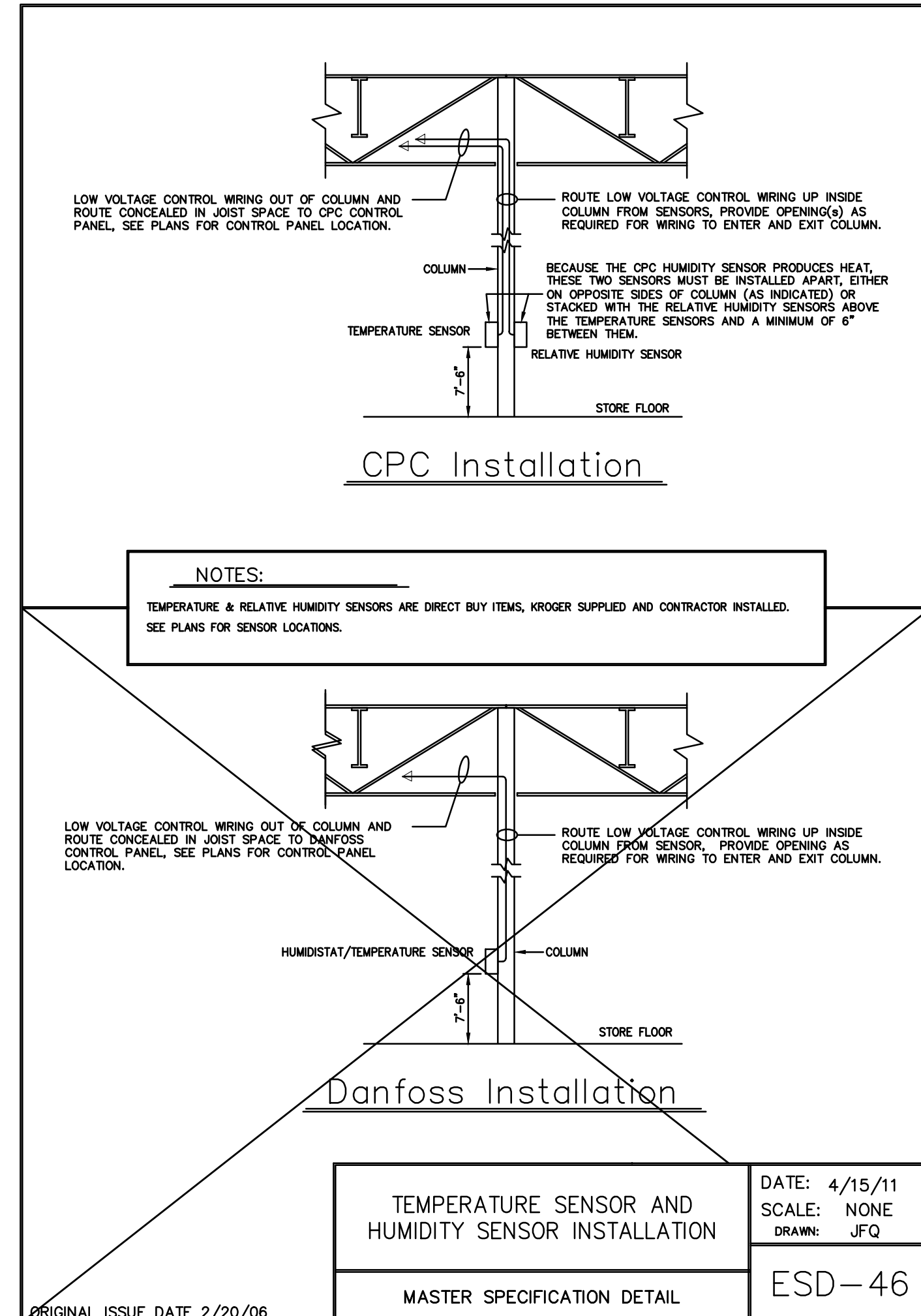
ABBREVIATION	DESCRIPTION
A	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CL	CLOCK
CLG	CEILING
CONTRL	CONTROL
CONN	CONNECTION
CR	CONTROL RELAY
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DM	DEMAND
DWG	DRAWING
EC	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLR	FLOOR
FLUOR	FLUORESCENT
FVNR	FULL VOLTAGE NON REVERSING
GB	GROUND BUSBAR
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LC	LIGHTING CONTACTOR
LTC	LIGHTING
MAG	MAGNETIC
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MNTD	MOUNTED
MTG HT	MOUNTING HEIGHT
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
PC	PART CIRCUIT
PF	POWER FACTOR
PH OR Ø	PHASE
PIV	POST INDICATOR VALVE
PNL	PANELBOARD
RECEPT	RECEPTACLE
REF	REFERENCE
REL	RELOCATED
RGSC	RIGID GALVANIZED STEEL CONDUIT
S	SURFACE MOUNT
SCH	SCHEDULE
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPECS	SPECIFICATIONS
SW	SWITCH
SWBRD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELEPHONE BACKBOARD
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UOI	UNLESS OTHERWISE INDICATED
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
30/3	30 AMPERE, 3 POLE

ELECTRICAL LEGEND

GENERAL	
—	LIGHTING OR RECEPTACLE PANELBOARD M.H. = 6'-6" TO TOP OF PANEL
(X)	KEYNOTE CALLOUT
HA:1	PANELBOARD AND CIRCUIT DESIGNATION
()	RACEWAY CONCEALED IN WALL OR CEILING OR EXPOSED ON STRUCTURE AS REQUIRED.
LA:2,4	HOMERUN TO PANELBOARD - LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT
NOTE: ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 WIRE No.10 AWG CIRCUIT WITH A No.10 AWG GROUND. A GREATER NUMBER OF WIRES IS INDICATED AS FOLLOWS:	
(//)	4 WIRE, 2 CIRCUITS & GROUND (LONGER SLASH INDICATES NEUTRAL)
(///)	6 WIRE, 3 CIRCUITS & GROUND, ETC. (WIRING LARGER THAN No.10 AWG SHALL BE AS NOTED)
(□)	NONFUSIBLE SAFETY SWITCH, 30A., 3 POLE UNLESS OTHERWISE NOTED
(DD)	DUCT MOUNTED SMOKE DETECTOR
(RM)	RELAY MODULE
(RTS)	REMOTE TEST STATION FOR DUCT SMOKE DETECTORS

PROJECT GENERAL NOTES

- THE WORK DEPICTED ON THE DRAWINGS IS DIAGRAMMATIC. HARMONIZE THE WORK WITH THAT OF OTHER TRADES SO INTERFERENCE AMONG CONDUITS, EQUIPMENT, DUCTS, PIPING, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED.
- 20 AMP BRANCH CIRCUITS CONDUCTORS SHALL BE #12 A.W.G. U.O.I. IF CIRCUIT LENGTH EXCEEDS RESPECTIVE LENGTH INDICATED BELOW CONTRACTOR TO PROVIDE LARGER CONDUCTORS AND RESPECTIVE CONDUIT/RACEWAY SIZE TO MEET ALL NEC REQUIREMENTS. WHERE INCREASED WIRE SIZE WILL NOT FIT IN THE TERMINALS OR LUGS OF THE EQUIPMENT OR DEVICES, PROVIDE PICTAILS TO REDUCE TO #12. PROVIDE ANY JUNCTION BOXES AS REQUIRED:
FOR 120V/20A BRANCH CIRCUITS
 - 0-100' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #12 WIRE.
 - 101'-200' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #10 WIRE.
 - 201'-300' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #8 WIRE.
 - 301'-400' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #6 WIRE.
 - 401'-500' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #4 WIRE.
 - 501'-600' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #3 WIRE.
 - 601'-700' BRANCH PANEL TO FARTHEST OUTLET OR DEVICE: #2 WIRE.
- PROVIDE A 9 GA. GALVANIZED PULLWIRE OR PULL ROPE/CORD HAVING 200# TEST STRENGTH IN EACH EMPTY RACEWAY OVER 25 FEET LONG.
- PROVIDE GROUNDING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) ARTICLE 250.
- GENERAL BUILDING CONTRACTOR AND/OR HIS ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL FIRE ALARM SYSTEMS AND ENERGY MANAGEMENT SYSTEMS. THE ASSOCIATED CONTROL PANELS AND ESTABLISHMENT OF ALL MONITORING FOR THESE SYSTEMS MUST BE IN COMPLETE WORKING ORDER. ADVANCE TESTING, ADJUSTMENTS AND SECURING OF ALL APPROVALS BY LOCAL AND STATE BUILDING OFFICIALS AND FIRE MARSHALS.
- PROVIDE ALL BRANCH CIRCUIT WIRING AND RACEWAYS TO ALL EQUIPMENT, DEVICES AND EQUIPMENT TO CONNECT THEM TO THE CIRCUITS INDICATED.
- WIRE FOR BRANCH CIRCUITS AND SUBFEEDERS IS TO BE COPPER UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL RUNS OF CONDUIT AND CABLE SHALL BE RUN AT THE TOP CORD OF THE BAR JOISTS.
- CIRCUIT NUMBERS FOR CIRCUITS TO EXISTING PANELS ARE FOR CIRCUITS MADE AVAILABLE DURING DEMOLITION. CIRCUIT NUMBERS ARE BASED ON AS-BUILT DRAWING INFORMATION AND MAY BE AT VARIANCE WITH ACTUAL CONDITIONS. FIELD INVESTIGATE CIRCUITING AND MAKE ADJUSTMENTS TO CIRCUIT ASSIGNMENTS IN PANELS AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL CONNECTIONS TO ALL OWNER FURNISHED, MECHANICAL EQUIPMENT AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE ALL FIRE ALARM DUCT SMOKE DETECTORS REQUIRED BY APPLICABLE CODES, AMENDMENTS, AND THE AUTHORITY HAVING JURISDICTION ARE IN PLACE ON NEW AND EXISTING RTU'S WHETHER SHOWN OR NOT SHOWN ON DRAWINGS. COORDINATE WITH MECHANICAL INSTALLER AND OWNERS PROJECT MANAGER.
- WHERE CONDUIT DOES NOT PENETRATE ROOF WITHIN A CURB, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A WEATHERPROOF JUNCTION BOX AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED IF DEMOLISHED ROOFTOP UNITS ARE REPLACED WITH NEW UNITS IN SAME GENERAL LOCATION WHERE DISCONNECT MAY NOT BE IN THE SAME LOCATION ON NEW UNIT AS LOCATED ON THE DEMO'D UNIT U.O.I. WHERE CONDUIT PENETRATES WITHIN THE CURB, A NEMA1 JUNCTION BOX MAY BE USED UNDER THE ROOF. COORDINATE WITH MECHANICAL INSTALLER FOR CONNECTION.
- COORDINATE WITH THE MECHANICAL INSTALLER FOR THE REROUTING OF CONDUITS THAT MAY INTERFERE WITH DUCTWORK. PROVIDE ANY ADDITIONAL WIRING, CONDUIT AND ADDITIONAL BOXES AS REQUIRED.
- THE CONTRACTOR SHALL INSURE ALL EQUIPMENT SUBMITTALS SHALL MATCH THE REQUIREMENTS OF THE DESIGN. IF NOT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.



REVISIONS:	DATE	DESCRIPTION

PROJECT #: 24534.00
DATE: FEB 03, 2025
DRAWN BY: PFI
DESIGNER: PFI
CHECKED BY: PFI

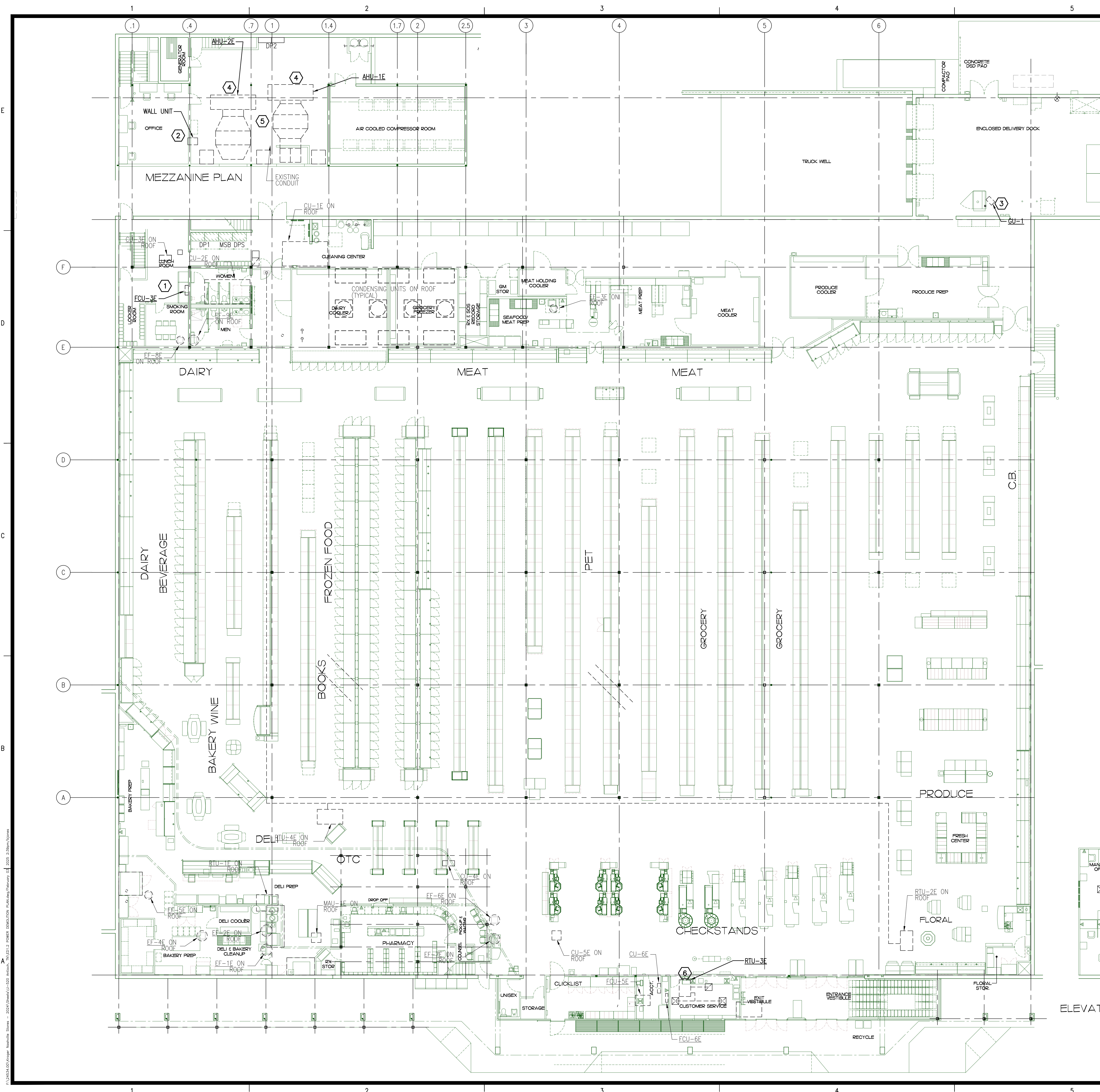


**KROGER STORE U-520
HVAC REMODEL**
5319 MOUNT VIEW RD
ANTIOCH, TN 37013



SHEET NUMBER:
E0.1
DESCRIPTION:
ELECTRICAL SYMBOLS AND
GENERAL NOTES

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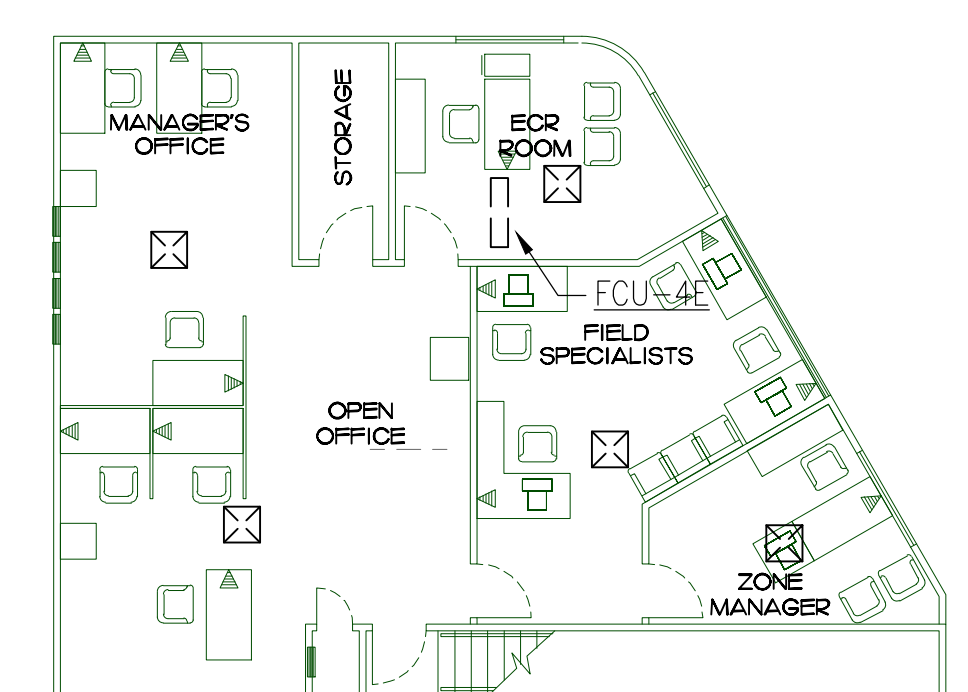


GENERAL NOTES

1. REFER TO E0.1 FOR PROJECT GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. THE CONTRACTOR SHALL PROVIDE THE DISCONNECTION AND DEMOLITION OF POWER SUPPLIES TO ALL EQUIPMENT IDENTIFIED ON THE PLANS FOR DEMOLITION AND/OR RELOCATION. DISCONNECT AND REMOVE WIRING TO SOURCE U.O.I. ELECTRICAL SUPPLIES TO EXISTING SERVICES/EQUIPMENT NOT IDENTIFIED FOR DEMOLITION TO REMAIN.
3. REMOVE POWER TO OWNER'S EQUIPMENT BEING REMOVED. REMOVE ALL UNUSED EQUIPMENT, DEVICES, EXPOSED CONDUIT, AND WIRING BACK TO THE SOURCE INCLUDING THE NEXT UPSTREAM DEVICE, EQUIPMENT OR THE PANEL BOARD. REMOVE UNUSED WIRING IN CONDUITS CONCEALED IN WALLS, FLOORS AND ABOVE LAY-IN CEILINGS AND ABANDON THE CONDUITS IN PLACE. MODIFY EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN DURING DEMOLITION AND AFTER. ALL EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING THE PHASED TRANSITION UNTIL THE NEW SYSTEMS ARE OPERATIONAL.
4. COORDINATE DEMOLITION WITH THE OWNER'S PROJECT MANAGER BEFORE EQUIPMENT, DEVICES, OR WIRING IS REMOVED.
5. REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF PROPERLY AND LEGALLY.
6. CAREFULLY REMOVE EQUIPMENT AND DEVICES THAT ARE NOTED TO BE REMOVED, STORED, AND REUSED. REPLACE ANY OF THESE THAT ARE DAMAGED DURING REMOVAL, STORAGE, OR REINSTALLATION.
7. DISCONNECT, ISOLATE, AND MAKE SAFE ALL ELECTRICAL CONNECTIONS TO DEMOLISHED AND RELOCATED EQUIPMENT.
8. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT TO BE DEMOLISHED. REMOVE CIRCUITS ASSOCIATED WITH DEMOLISHED EQUIPMENT BACK TO SOURCE U.O.I. CIRCUITS TO REMAINING EQUIPMENT TO REMAIN AS IS AND BE PROTECTED AS NECESSARY.

KEYNOTES

1. DISCONNECT AND RETAIN WIRING FOR FCU-3E FOR RECONNECTION TO FCU-3. COORDINATE WITH MECHANICAL INSTALLER FOR DISCONNECTION AND RECONNECTION.
2. REMOVE DEVICE AND WIRING BACK TO THE SOURCE FOR WALL MOUNTED UNIT. ABANDON BOX AND CONDUIT. PLACE BLANK STAINLESS STEEL COVER ON EMPTY DEVICE BOX.
3. DISCONNECT AND REMOVE WIRING AND CONDUIT FOR GAS UNIT HEATER. REMOVE ALL WIRING BACK TO THE SOURCE.
4. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BOTH CONTROL AND POWER FOR AHU-1 AND AHU-2 BACK TO THE SOURCE. COORDINATE WITH MECHANICAL INSTALLER FOR PROPER PHASING OF DISCONNECTION OF UNITS TO PROVIDE FOR MINIMAL DOWNTIME.
5. PROVIDE FOR REROUTING OF EXISTING CONDUIT TO REMAIN AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR REROUTING OF CONDUIT TO ALLOW FOR REMOVAL OF EQUIPMENT TO BE DEMOLISHED.
6. DISCONNECT AND REMOVE WIRING BACK TO THE SOURCE FOR THE RTU.



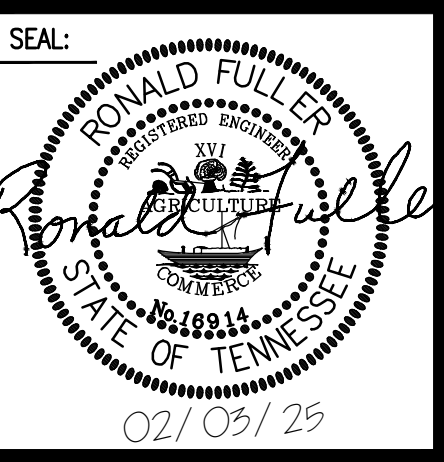
ELEVATED MANAGER'S OFFICE, ETC. EXPANDED

REVISIONS:

PROJECT #: 24534.00
 DATE: FEB 03, 2025
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 DESIGNER:
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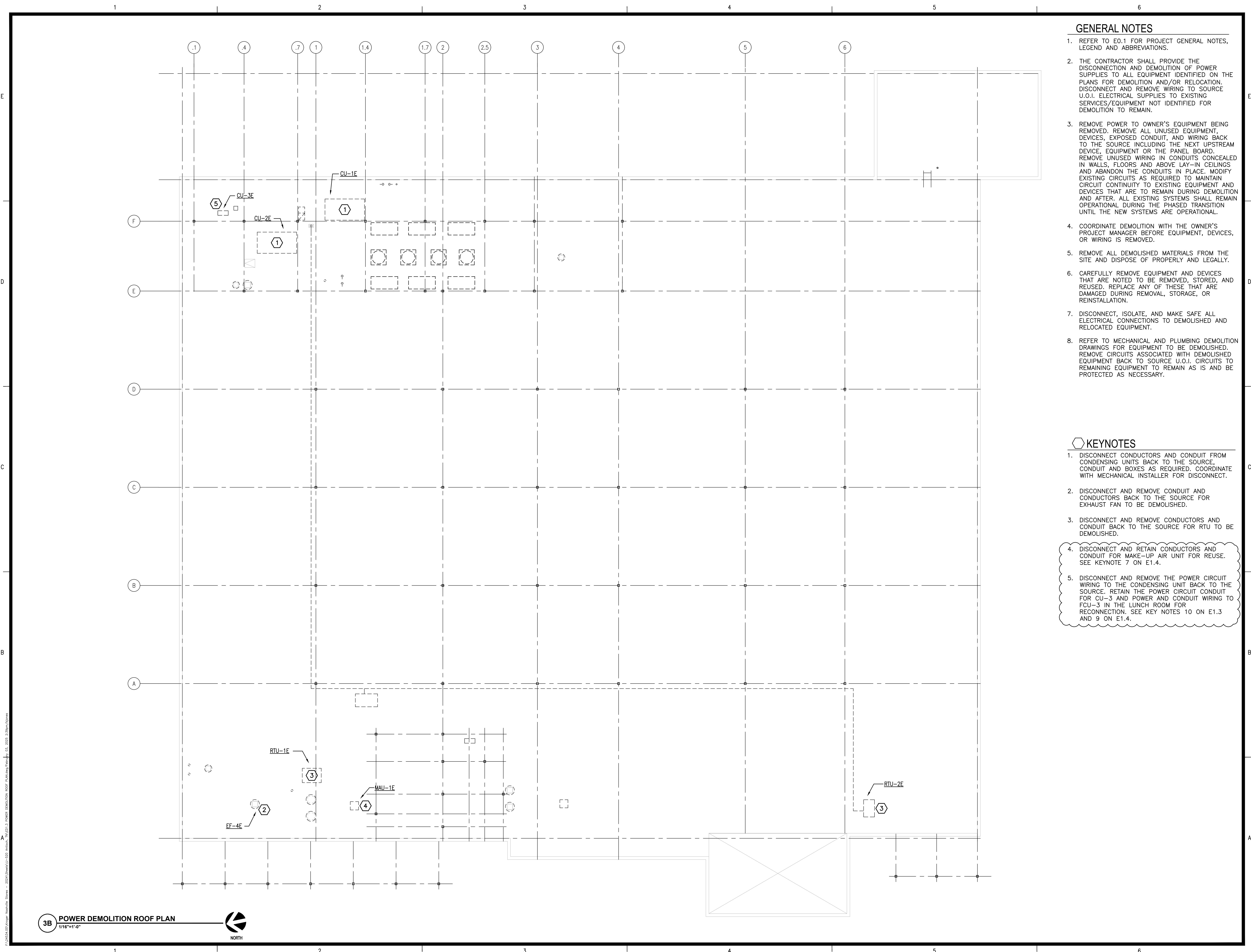
**KROGER STORE U-520
 HVAC REMODEL**
 5319 MOUNT VIEW RD
 ANTOCH, TN 37013



SHEET NUMBER:
ED1.2

DESCRIPTION:
 POWER DEMOLITION PLAN

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GENERAL NOTES

- REFER TO E0.1 FOR PROJECT GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- THE CONTRACTOR SHALL PROVIDE THE DISCONNECTION AND DEMOLITION OF POWER SUPPLIES TO ALL EQUIPMENT IDENTIFIED ON THE PLANS FOR DEMOLITION AND/OR RELOCATION. DISCONNECT AND REMOVE WIRING TO SOURCE U.O.I. ELECTRICAL SUPPLIES TO EXISTING SERVICES/EQUIPMENT NOT IDENTIFIED FOR DEMOLITION TO REMAIN.
- REMOVE POWER TO OWNER'S EQUIPMENT BEING REMOVED. REMOVE ALL UNUSED EQUIPMENT, DEVICES, EXPOSED CONDUIT, AND WIRING BACK TO THE SOURCE INCLUDING THE NEXT UPSTREAM DEVICE, EQUIPMENT OR THE PANEL BOARD. REMOVE UNUSED WIRING IN CONDUITS CONCEALED IN WALLS, FLOORS AND ABOVE LAY-IN CEILINGS AND ABANDON THE CONDUITS IN PLACE. MODIFY EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN DURING DEMOLITION AND AFTER. ALL EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING THE PHASED TRANSITION UNTIL THE NEW SYSTEMS ARE OPERATIONAL.
- COORDINATE DEMOLITION WITH THE OWNER'S PROJECT MANAGER BEFORE EQUIPMENT, DEVICES, OR WIRING IS REMOVED.
- REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF PROPERLY AND LEGALLY.
- CAREFULLY REMOVE EQUIPMENT AND DEVICES THAT ARE NOTED TO BE REMOVED, STORED, AND REUSED. REPLACE ANY OF THESE THAT ARE DAMAGED DURING REMOVAL, STORAGE, OR REINSTALLATION.
- DISCONNECT, ISOLATE, AND MAKE SAFE ALL ELECTRICAL CONNECTIONS TO DEMOLISHED AND RELOCATED EQUIPMENT.
- REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT TO BE DEMOLISHED. REMOVE CIRCUITS ASSOCIATED WITH DEMOLISHED EQUIPMENT BACK TO SOURCE U.O.I. CIRCUITS TO REMAINING EQUIPMENT TO REMAIN AS IS AND BE PROTECTED AS NECESSARY.

KEYNOTES

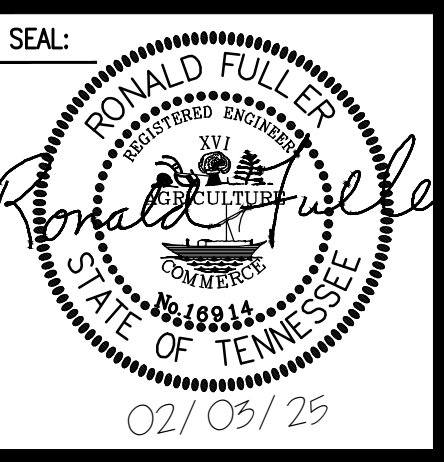
- DISCONNECT CONDUCTORS AND CONDUIT FROM CONDENSING UNITS BACK TO THE SOURCE. CONDUIT AND BOXES AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR DISCONNECT.
- DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS BACK TO THE SOURCE FOR EXHAUST FAN TO BE DEMOLISHED.
- DISCONNECT AND REMOVE CONDUCTORS AND CONDUIT BACK TO THE SOURCE FOR RTU TO BE DEMOLISHED.
- DISCONNECT AND RETAIN CONDUCTORS AND CONDUIT FOR MAKE-UP AIR UNIT FOR REUSE. SEE KEYNOTE 7 ON E1.4.
- DISCONNECT AND REMOVE THE POWER CIRCUIT WIRING TO THE CONDENSING UNIT BACK TO THE SOURCE. RETAIN THE POWER CIRCUIT CONDUIT FOR CU-3 AND POWER AND CONDUIT WIRING TO FCU-3 IN THE LUNCH ROOM FOR RECONNECTION. SEE KEY NOTES 10 ON E1.3 AND 9 ON E1.4.

REVISIONS:

PROJECT #: 24534.00
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 DESIGNER: PFI
 CHECKED BY: PFI



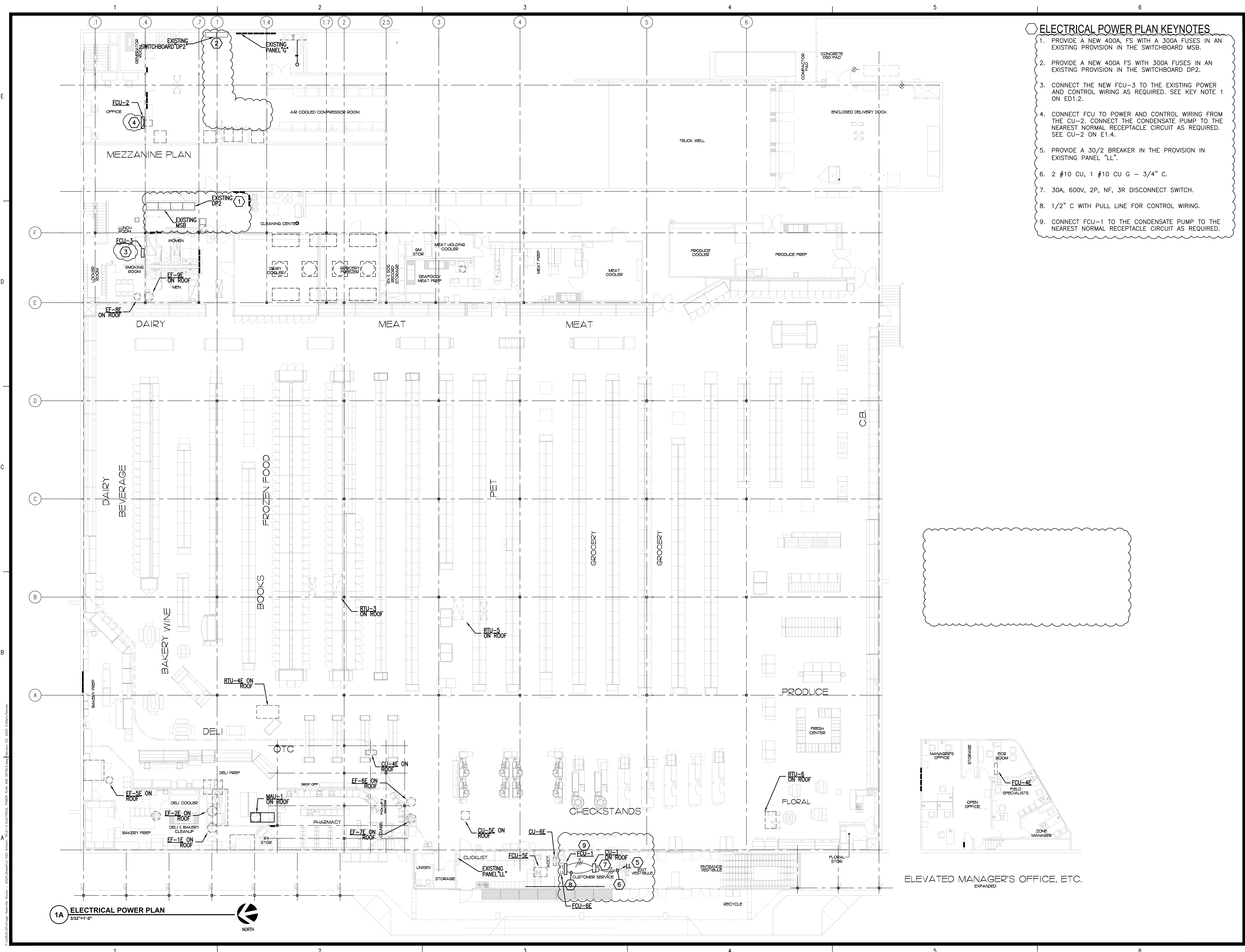
**KROGER STORE U-520
 HVAC REMODEL**
 5319 MOUNT VIEW RD
 ANTOCH, TN 37013



SHEET NUMBER:
ED1.3

DESCRIPTION:
 POWER DEMOLITION ROOF PLAN

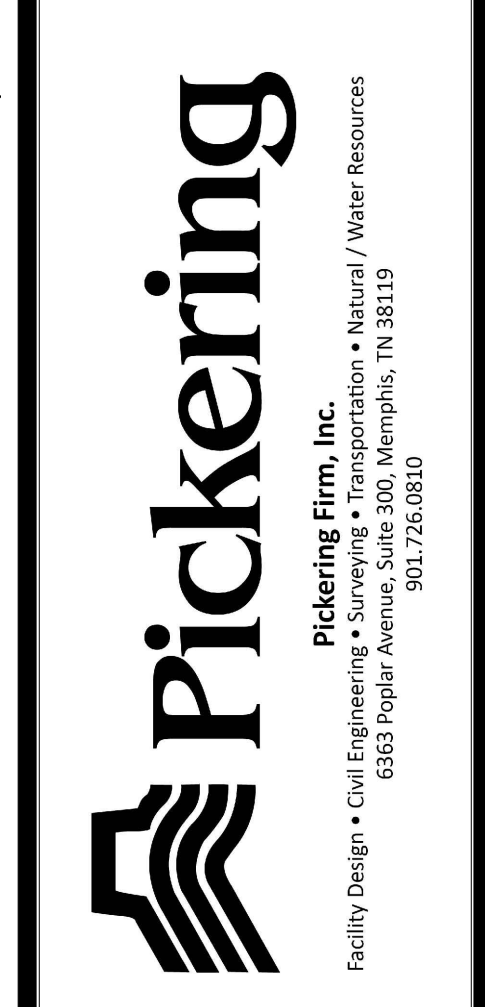
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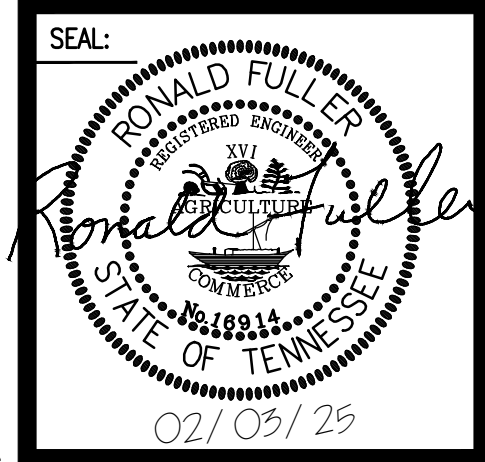
- ELECTRICAL POWER PLAN KEYNOTES**
1. PROVIDE A NEW 400A, FS WITH A 300A FUSES IN AN EXISTING PROVISION IN THE SWITCHBOARD MSB.
 2. PROVIDE A NEW 400A FS WITH 300A FUSES IN AN EXISTING PROVISION IN THE SWITCHBOARD DP2.
 3. CONNECT THE NEW FCU-3 TO THE EXISTING POWER AND CONTROL WIRING AS REQUIRED. SEE KEY NOTE 1 ON ED1.2.
 4. CONNECT FCU TO POWER AND CONTROL WIRING FROM THE CU-2. CONNECT THE CONDENSATE PUMP TO THE NEAREST NORMAL RECEPTACLE CIRCUIT AS REQUIRED. SEE CU-2 ON E1.4.
 5. PROVIDE A 30/2 BREAKER IN THE PROVISION IN EXISTING PANEL "LL".
 6. 2 #10 CU, 1 #10 CU G - 3/4" C.
 7. 30A, 600V, 2P, NF, 3R DISCONNECT SWITCH.
 8. 1/2" C WITH PULL LINE FOR CONTROL WIRING.
 9. CONNECT FCU-1 TO THE CONDENSATE PUMP TO THE NEAREST NORMAL RECEPTACLE CIRCUIT AS REQUIRED.

REVISIONS:

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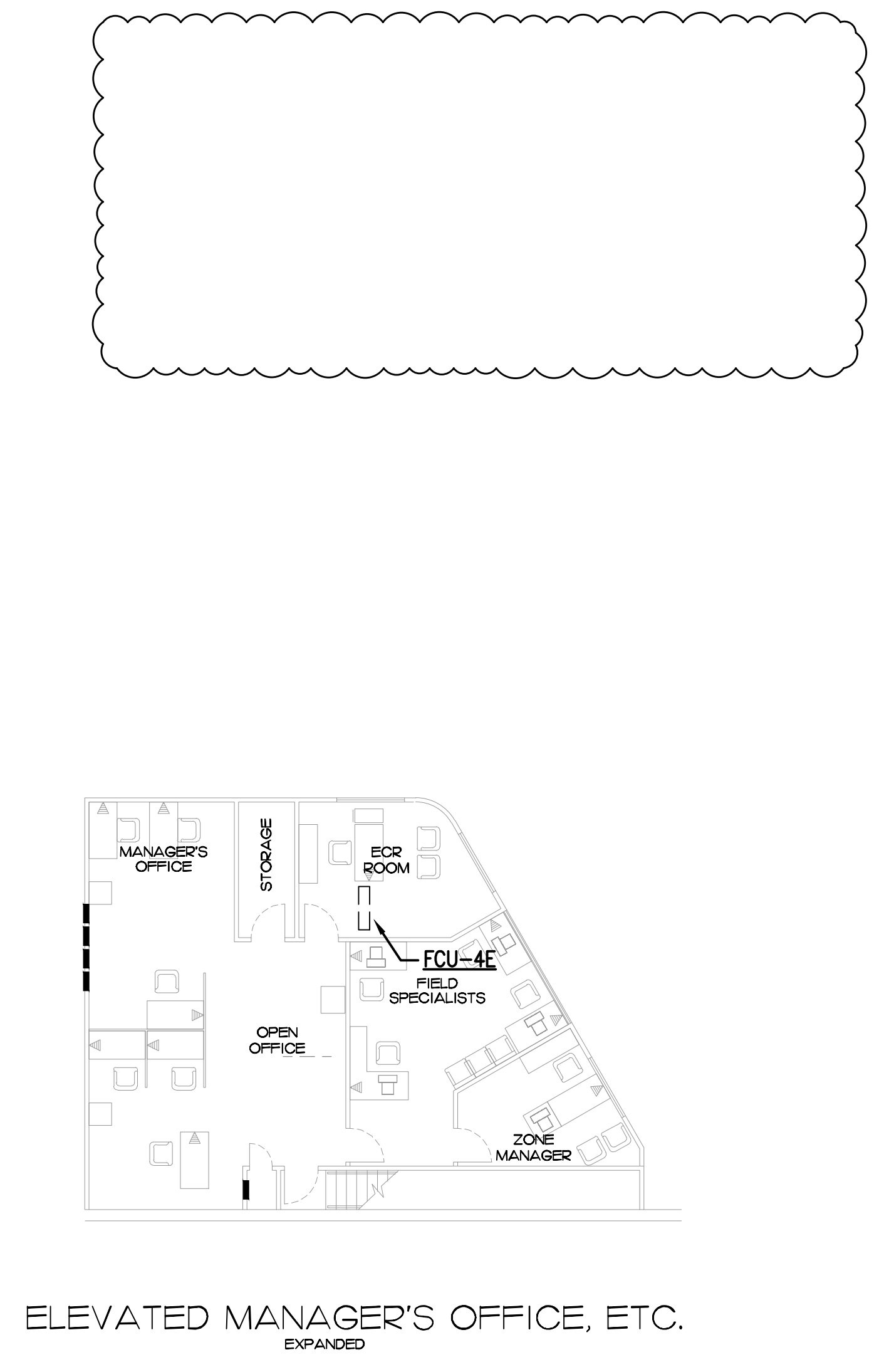


**KROGER STORE U-520
 HVAC REMODEL**
 5319 MOUNT VIEW RD
 ANTOCH, TN 37013



SHEET NUMBER:
E1.3

DESCRIPTION:
 ELECTRICAL POWER PLAN
 AND DETAILS
 BID SET



ELEVATED MANAGER'S OFFICE, ETC.
 EXPANDED

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