UTILITY AND EMERGENCY TELEPHONE NUMBERS

THE EASTERN IOWA AIRPORT - CEDAR RAPIDS, IOWA

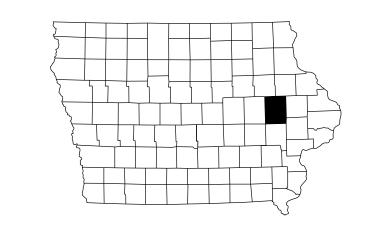
AIRPORT ADMINISTRATION:	(319) 362-3131
AIRPORT PUBLIC SAFETY DEPARTMENT:	(319) 731-5722
EMERGENCY:	911
AIRFIELD MAINTENANCE:	(319) 731-5717
AIR TRAFFIC CONTROL TOWER:	(319) 558-5060
FAA AIRWAYS FACILITIES:	(319) 558-5151
IOWA ONE CALL (UTILITIES):	(800) 292-8989
CID GROUND CONTROL FREQUENCY	121.6 MHz

CEDAR RAPIDS AIRPORT COMMISSION

DUANE SMITH - CHAIR DAVID NIEUWSMA - VICE CHAIR DR. LORI SUNDBERG - SECRETARY **BARRY BOYER - ACTING SECRETARY STEVE WEST - CHAIRMAN**

AIRPORT STAFF

MARTY LENSS - AIRPORT DIRECTOR DONALD SWANSON - DIRECTOR OF FINANCE & ADMINISTRATION **TODD GIBBS - DIRECTOR OF OPERATIONS** KATHY BELL - DEPUTY DIRECTOR OF FINANCE & ADMINISTRATION PAM HINMAN - DIRECTOR OF MARKETING & COMMUNICATIONS





ROOM TERMINAL BUILDING - HVAC COOLING INSTALL ROOF ACCESS HATCH

ENGLISH

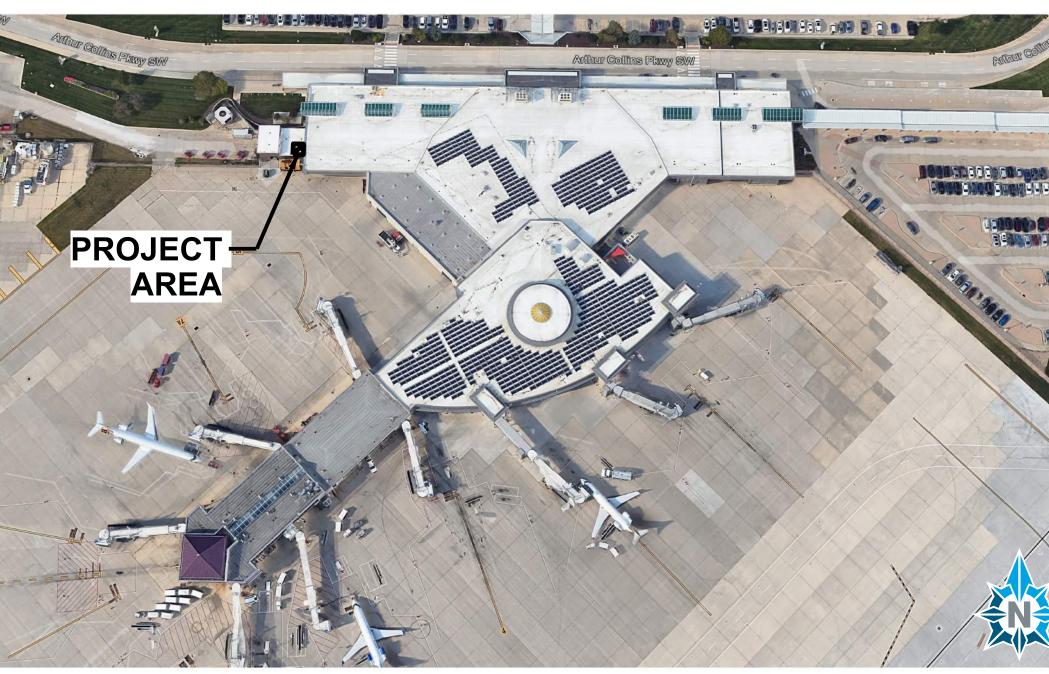
PLANS OF PROPOSED IMPROVEMENTS FOR 2023 THE EASTERN IOWA AIRPORT TERMINAL BUILDING - HVAC COOLING ROOM

INSTALL ROOF ACCESS HATCH

CEDAR RAPIDS, IOWA

LOCATION MAP





NUM S-10 **PROJECT DESCRIPTION**

COORDINATE ALL EQUIPMENT ACCESS WITH RESIDENTIAL PROJECT REPRESENTATIVE





CEDAR RAPIDS AIRPORT COMMISSION LINN COUNTY

PROJECT NO.: 0500017.01

ISSUED FOR BID

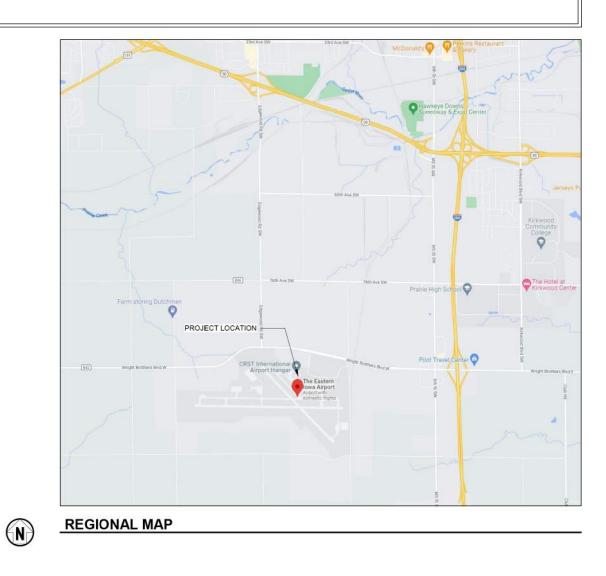
IBER	DESCRIPTION
A.00	TITLE SHEET - PROJECT DESCRIPTION
A.01-A.03	HATCH AND FRAME GEOMETRY
A.04	HATCH DETAILS
S.001	STRUCTURAL GENERAL NOTES AND DETAILS
SD-101	STRUCTURAL DEMO PLAN
01-S-102	STRUCTURAL ROOF PLANS

REMOVE EXISTING ROOFING MEMBRANE, INSULATION, DUCT FLASHING AND STRUCTURAL MEMBERS AS INDICATED IN ARCHITECTURAL AND STRUCTURAL PLANS.

FABRICATE ROOF OPENING FRAME, INSTALL AND RECONSTRUCT INSULATION AND ROOFING MEMBRANE AS DETAILED TO ROOF HATCH FRAMING.

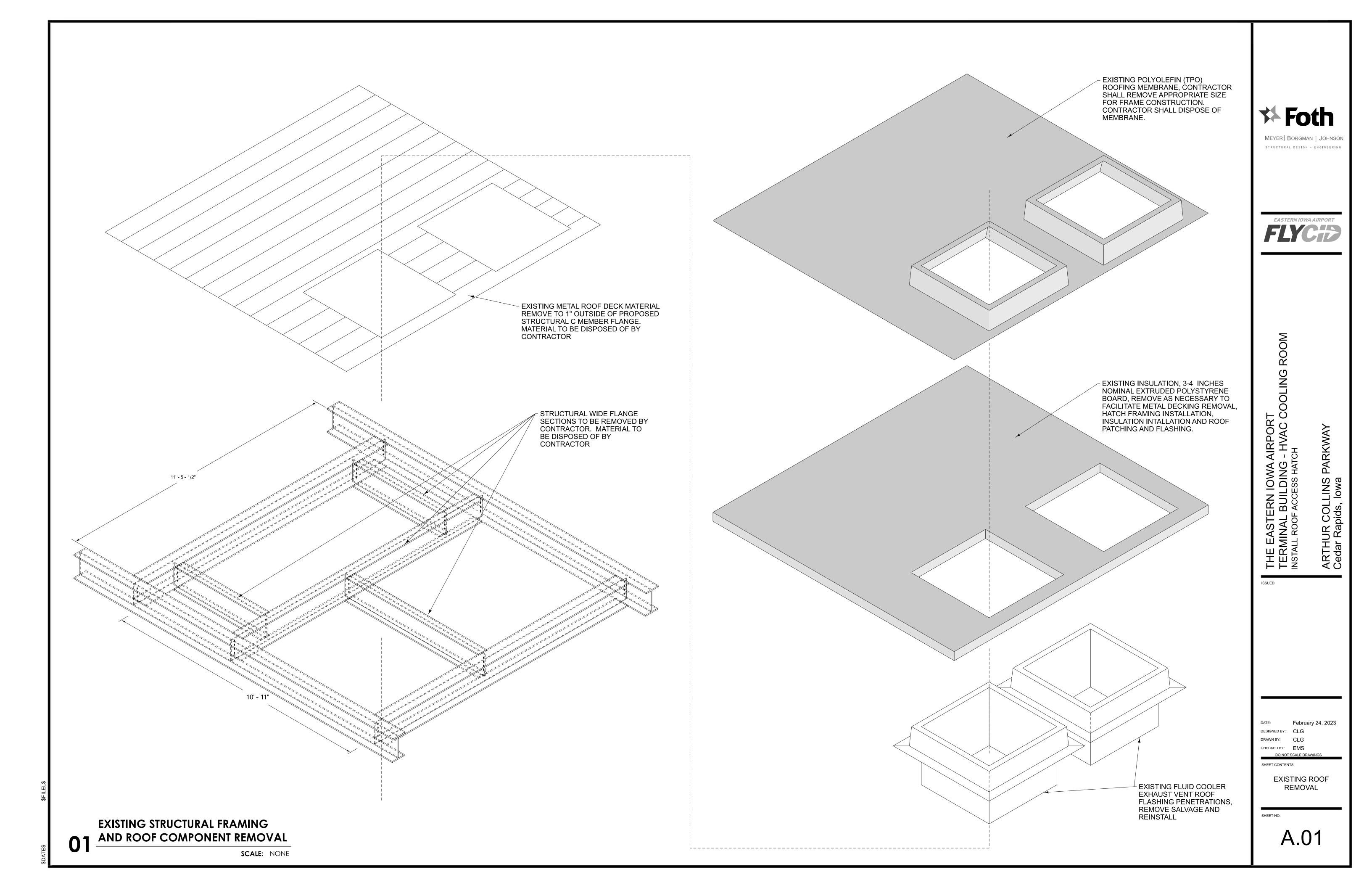
FABRICATE ROOF HATCH AND INSTALL ON HATCH OPENING FRAMING.

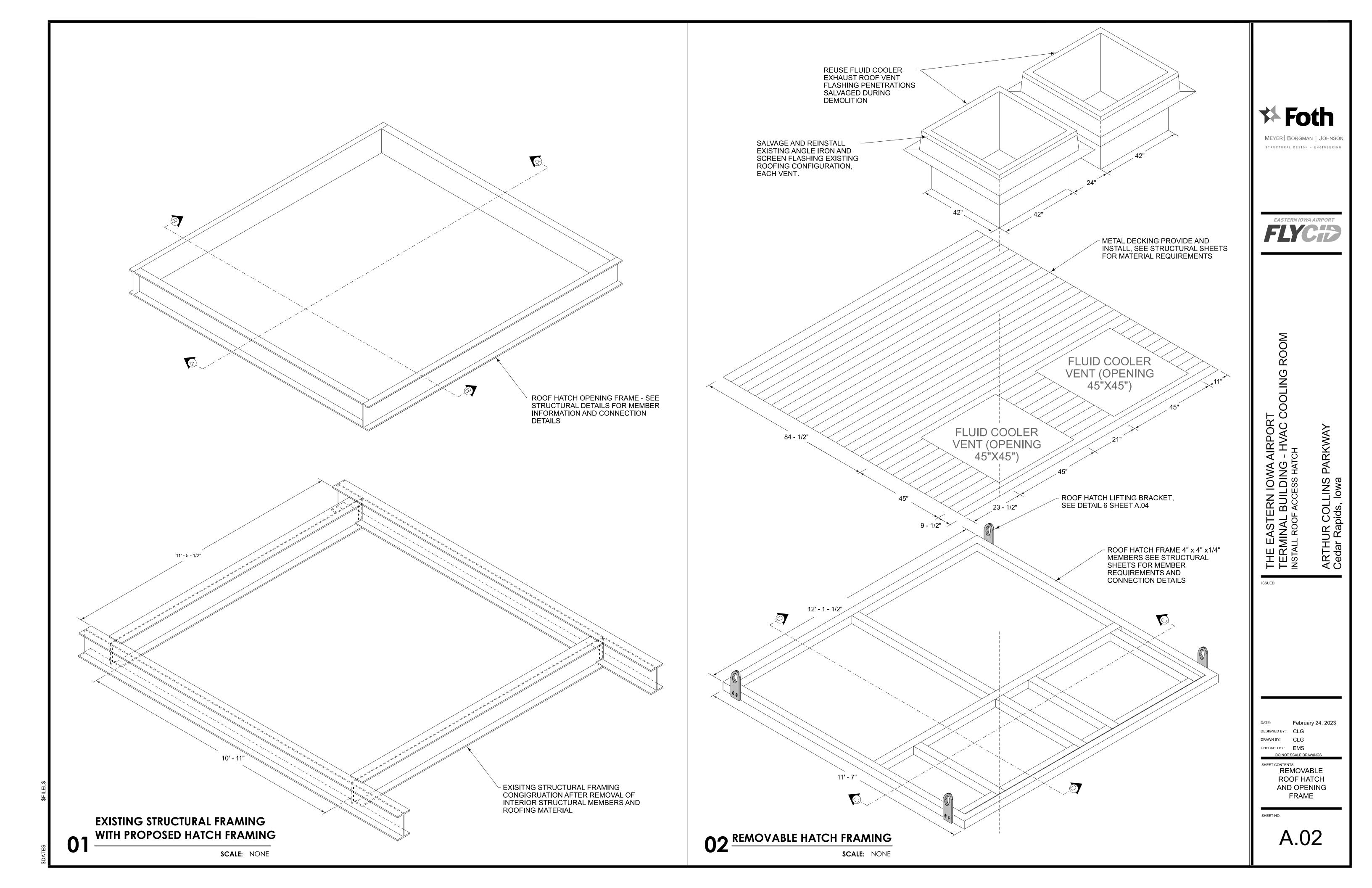
FABRICATE AND INSTALL DUCT EXTENSIONS.

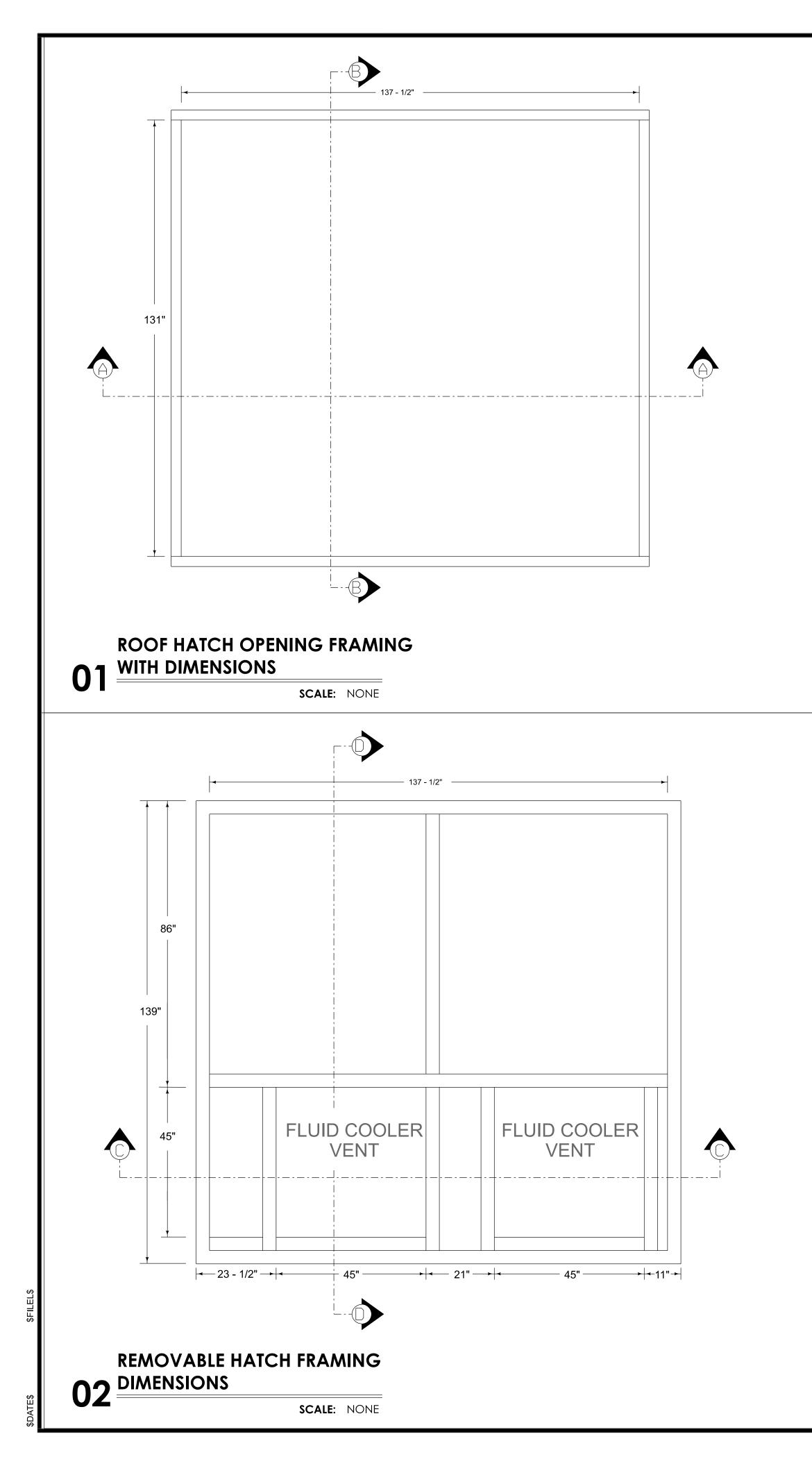


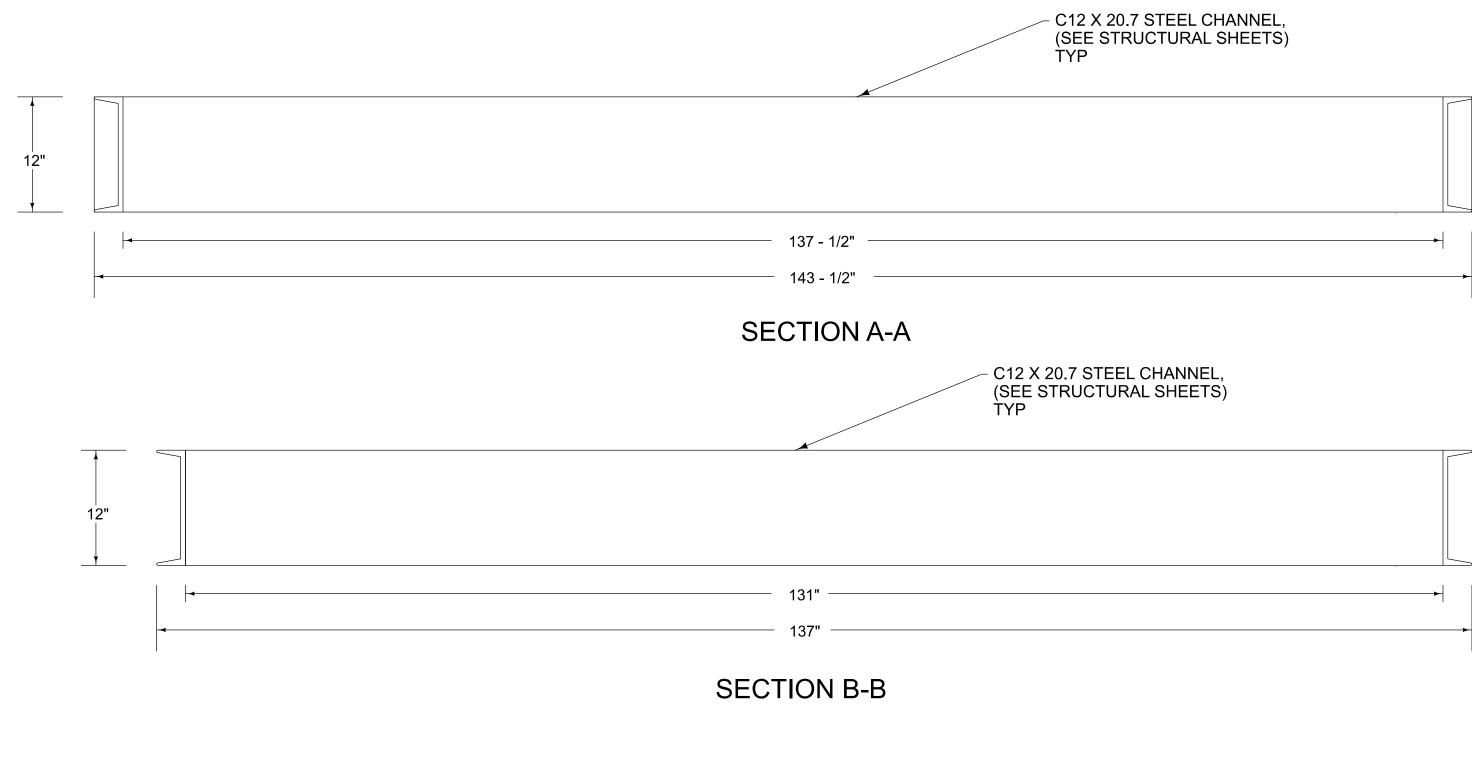
MEYER BORGMAN JOHNSON

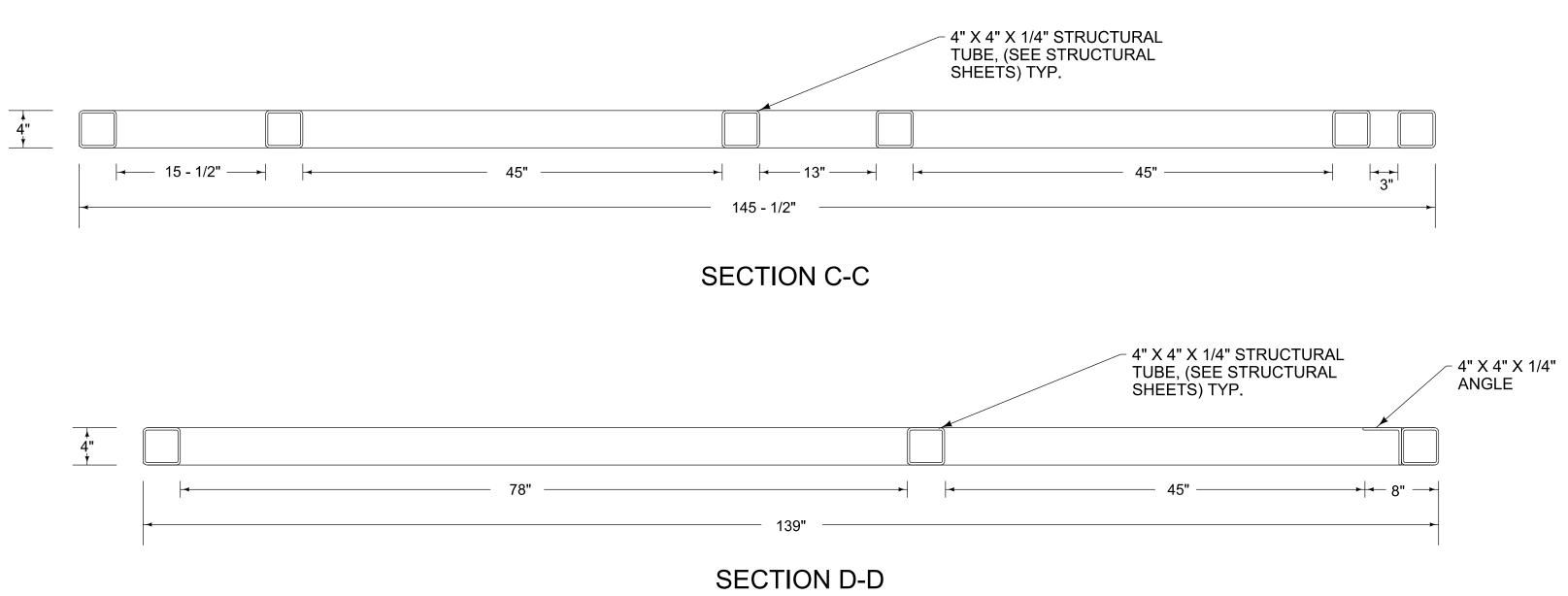
STRUCTURAL DESIGN + ENGINEERING

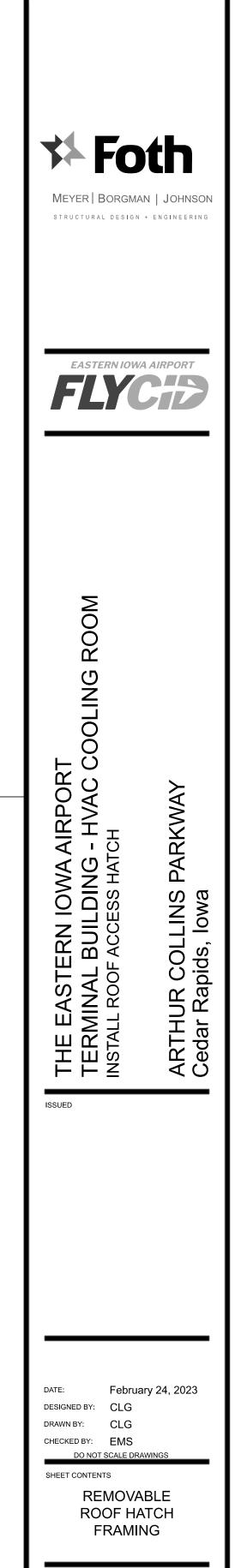






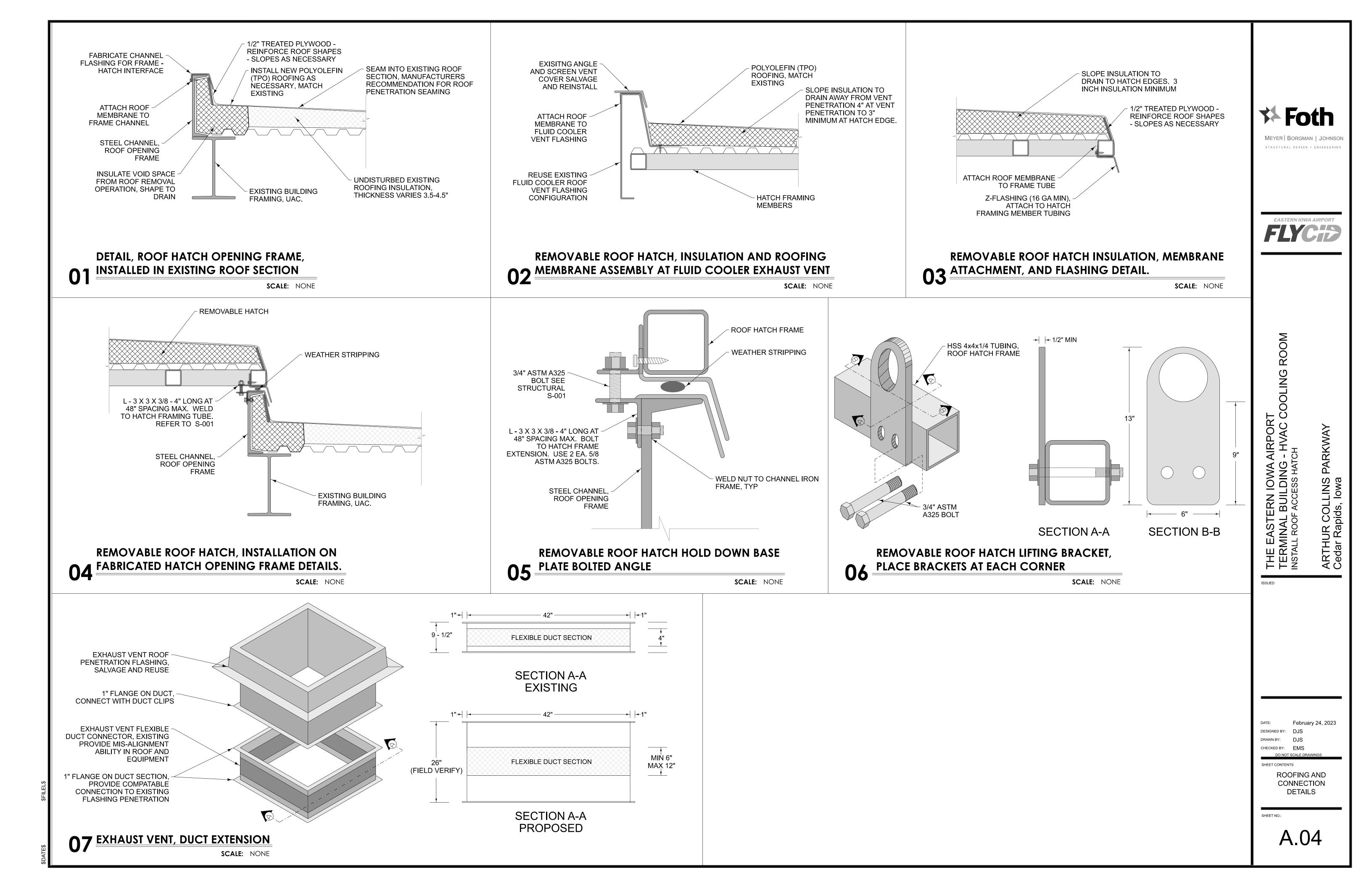






SHEET NO .:

A.03



GENERAL STRUCTURAL NOTES

TYPICAL NOTES:

These notes specify the requirements for the design represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings. The contractor is responsible for coordination of the structural work with the architectural, civil, mechanical, and electrical drawings.

The Contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the Architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The Contractor is responsible for bracing and shoring (without overstressing) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer of Record is not responsible for the Contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction period

The Contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer of Record do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural members.

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies (unforeseen conditions) to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in question.

SPECIAL INSPECTIONS:

Special inspections required by the building code and these documents shall be provided in addition to inspections to be performed by the city in which the project is located.

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the Owner's responsibilities.

The Special Inspectors shall be provided by the Owner and shall use current structural drawings incorporating all revisions and approved shop drawings.

Special inspection reports are to be submitted promptly and within 24 hours to the Structural Engineer of Record and Contractor from the time when inspections are performed.

The General Contractor shall provide timely notice (minimum 24 hours) to the Special Inspector and sufficient time for the Inspector to perform their inspection.

For a schedule of Special Structural Inspections required by the building code for this project, see the Special Inspection Schedule.

STRUCTURAL TEST AND SPECIAL INSPECTION SCHEDULE:

						Continuous	Periodic	None
1.	STEEL	CONSTRUC	CTION:	Section 1705.2.1 and Tak	ble 1705.2.2			
	1.1	Fabricator D	ocumenta	ation - Note (1)				
	1.2	High Strengt	th Bolting-	Bearing Material		\Box		Π
	1.3	High-Streng	th Bolting-	Slip-Critical and Material		\Box		
	1.4	Steel Materi	al, Seismi	c - Section 1705.11.1		\square	\square	
	1.5	Welds:	Full and	Part Pen and Multi-Pass F	Fillet		\square	
	1.6	Welds:	Single Pa	ass Fillet for All Sections		\Box		Π
	1.7	Frame Joint	Detail Co	mpliance				

1. When the fabricator does not meet the requirements of 1704.2.5.2 and where applicable the exception in 1705.2, Special Inspection in the Fabricator's shop is required.

MATERIAL PROPERTIES:

Structural Steel (Fy):

Wide Flanges: Angles, Channels, Plates, and Bars Rectangular HSS Round HSS Steel Pipe

Structural Fasteners: Typical High-Strength Bolts

Twist-off Tension Control Bolts Carbon Steel, Threaded Rods Anchor Rods, Grade 36 U.N.O. Direct Tension Indicator Washers as noted on

STRUCTURAL STEEL:

Structural steel shall be detailed, fabricated and erected in compliance with AISC Specification for the design, fabrication, erection of structural steel for building, and Code of Standard Practice, and OSHA steel erection standards.

All beams and girders shall be cambered at mid-span as indicated on the structural drawings. The cambers indicated shall be present in the beam in its erected position after completion of the end connections and shall be verified prior to placing concrete. Cambering tolerances shall be (-0", +1/2"). No center point cambering allowed.

Record

otherwise.

Anchor rods shall be minimum 3/4" diameter or as detailed in drawings.

STRUCTURAL STEEL CONNECTIONS:

Welded connections shall be made in accordance with AWS D1.1 Structural Welding Code using E70XX electrodes unless noted otherwise. Weld sizes not shown or controlled by the required forces shall be AWS code minimum size. Welds shall be visually inspected for compliance with the AWS code visual inspection criteria. Welders shall be qualified in accordance with AWS D1.1 and shall be experienced in welding structural steel.

Full penetration welds shall be tested using NDT methods such as ultrasonic, magnetic particle or other methods referenced in the AWS code. Welds subject to NDT methods shall also have been found compliant with the AWS visual inspection criteria.

STEEL ROOF DECK:

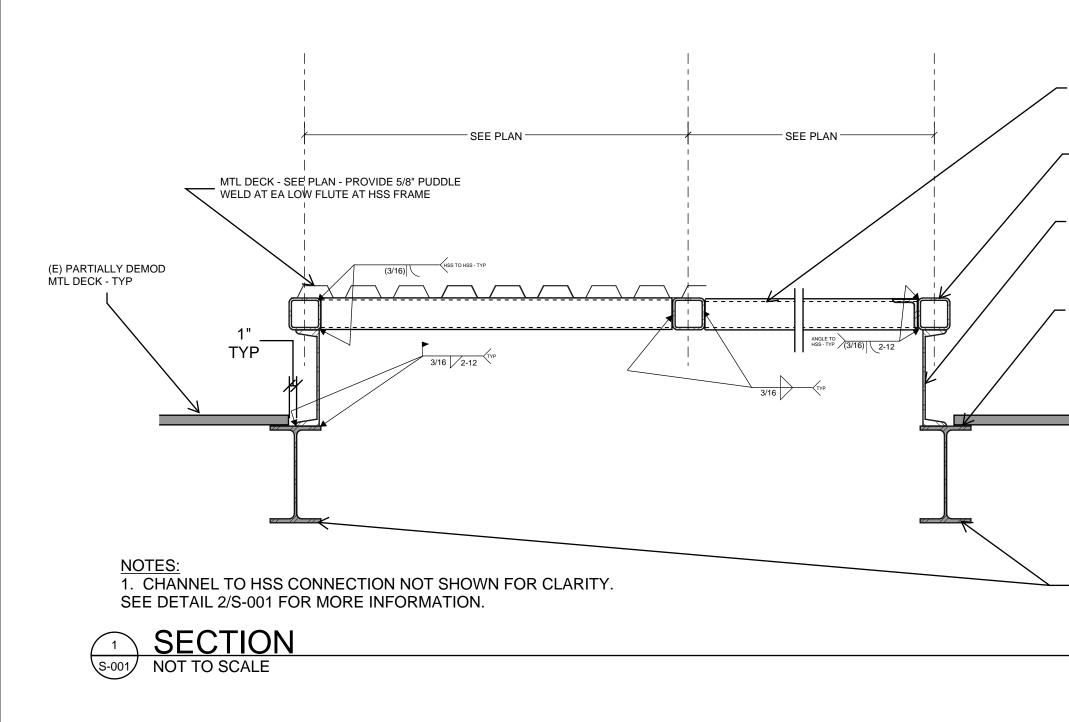
Steel roof deck shall be as noted on plan.

requirements.

Where spray-on fireproofing of the deck is required, the Contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the fireproofing. Coordinate fireproofing locations and requirements with the architect.

All steel deck shall span a minimum of three spans, unless otherwise approved by the engineer. Deck ends are to be lapped over supports.

Provide reinforcement or frames for deck openings as indicated on the drawings.



North Contraction of the second secon	JOEL E. RECTOR 22436	
CENSED CONTRACTION	JOEL E. RECTOR 22436	ENGINEEP HU

50,000 psi	ASTM A992
36,000 psi	ASTM A36
46,000 psi	ASTM A500, Grade E
42,000 psi	ASTM A500, Grade E
35,000 psi	ASTM A53, Grade B
105 000 psi	ASTM A325

105,000 psi	ASTIVI ASZO
105,000 psi	ASTM 1852, Type 7
36,000 psi	ASTM A36
36,000 psi	ASTM F1554
n plan	ASTM F959

Splicing structural members where not detailed on the drawings is prohibited without prior approval of the Structural Engineer of

Modification of structural steel members in the field is not allowed without written approval by the Structural Engineer of Record.

All composite beams using the concrete slab as a compression flange are designed for unshored construction unless noted

Manufacturer shall be a current member of the Steel Deck Institute (SDI).

Detail, manufacture and install steel roof deck and accessories in accordance with the SDI specifications and codes and OSHA

Welding shall be in accordance with AWS D1.3. Welders shall be qualified in accordance with AWS D1.3.

Contractor shall verify the location and extent of acoustical steel deck with the architectural drawings.

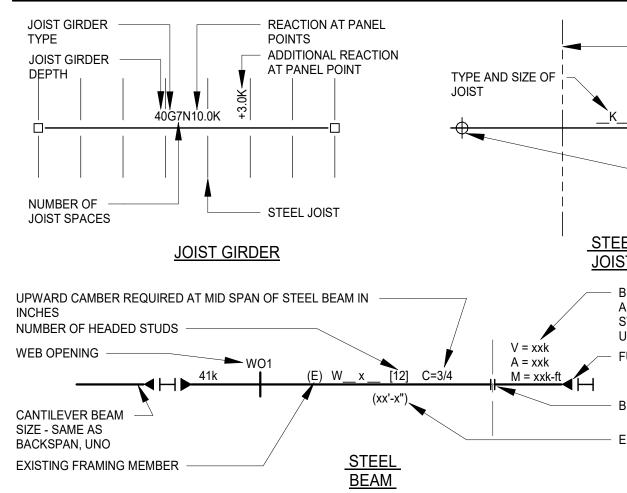
Reference drawings for detail on steel roof deck fastening requirements unless noted otherwise.

SHEET LIST

SHEET #	SHEET NAME
S-001	GENERAL NOTES AND DETAILS
SD-101	PARTIAL ROOF DEMO PLAN
S-101	PARTIAL ROOF PLAN
S-102	PARTIAL HIGH ROOF PLAN

PLAN SYMBOLS LEGEND:

STEEL FRAMING SYSTEM:

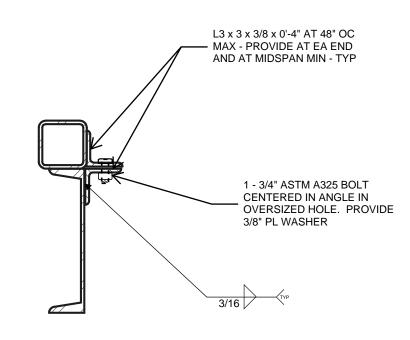


STL ANGLE -- SEE PLAN

HSS BM SEE PLAN

- STL CHANNEL - SEE PLAN

5/8" PUDDLE WELD (E) DECK TO (E) STL BM AT EA LOW FLUTE - TYP



(E) STL BM - SEE PLAN



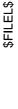
DRAWN BY: MMC CHECKED BY: JER DO NOT SCALE DRAWINGS

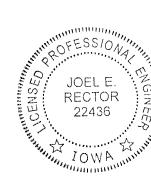
SHEET CONTENTS GENERAL NOTES AND DETAILS

SHEET NO .:

S-00







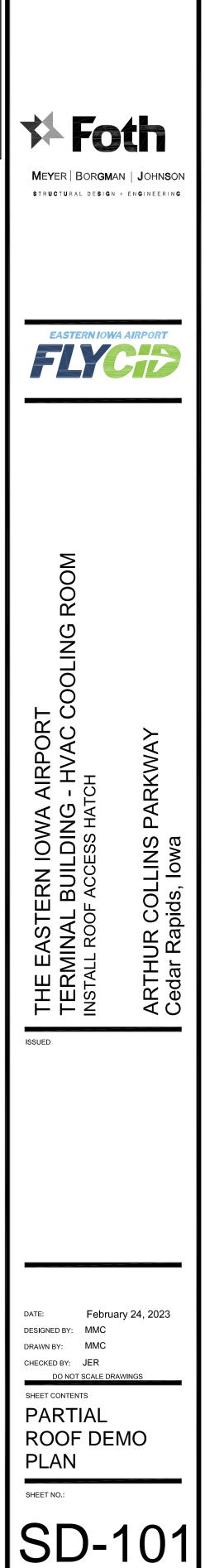
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

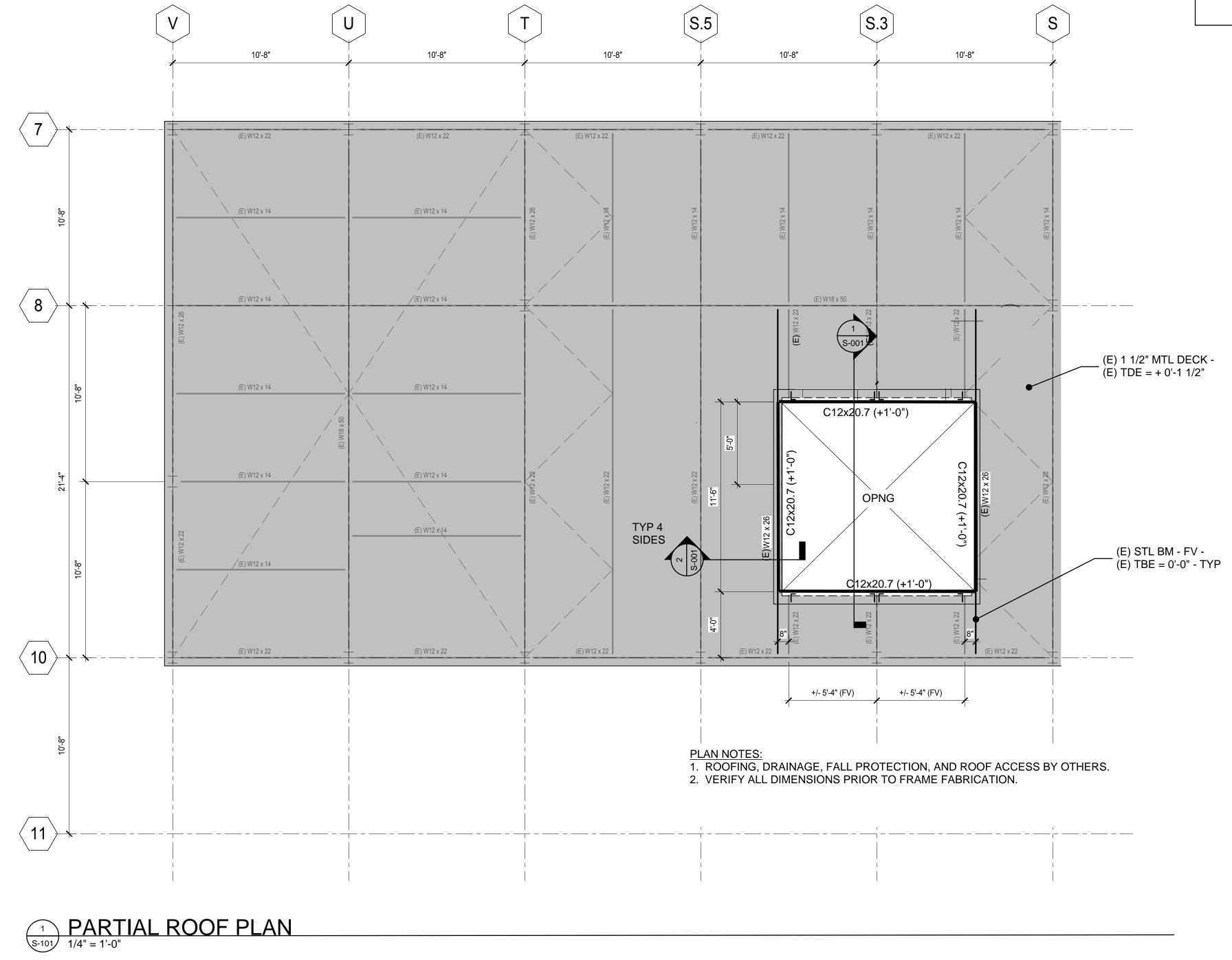
(signature)

2/24/2023

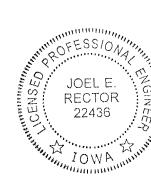
(date)

Joel E. Rector License number 22436 My license renewal date is December 31, 2023





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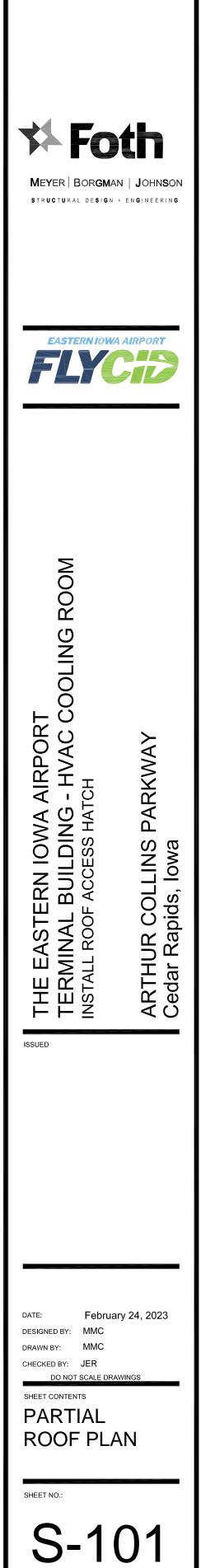
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

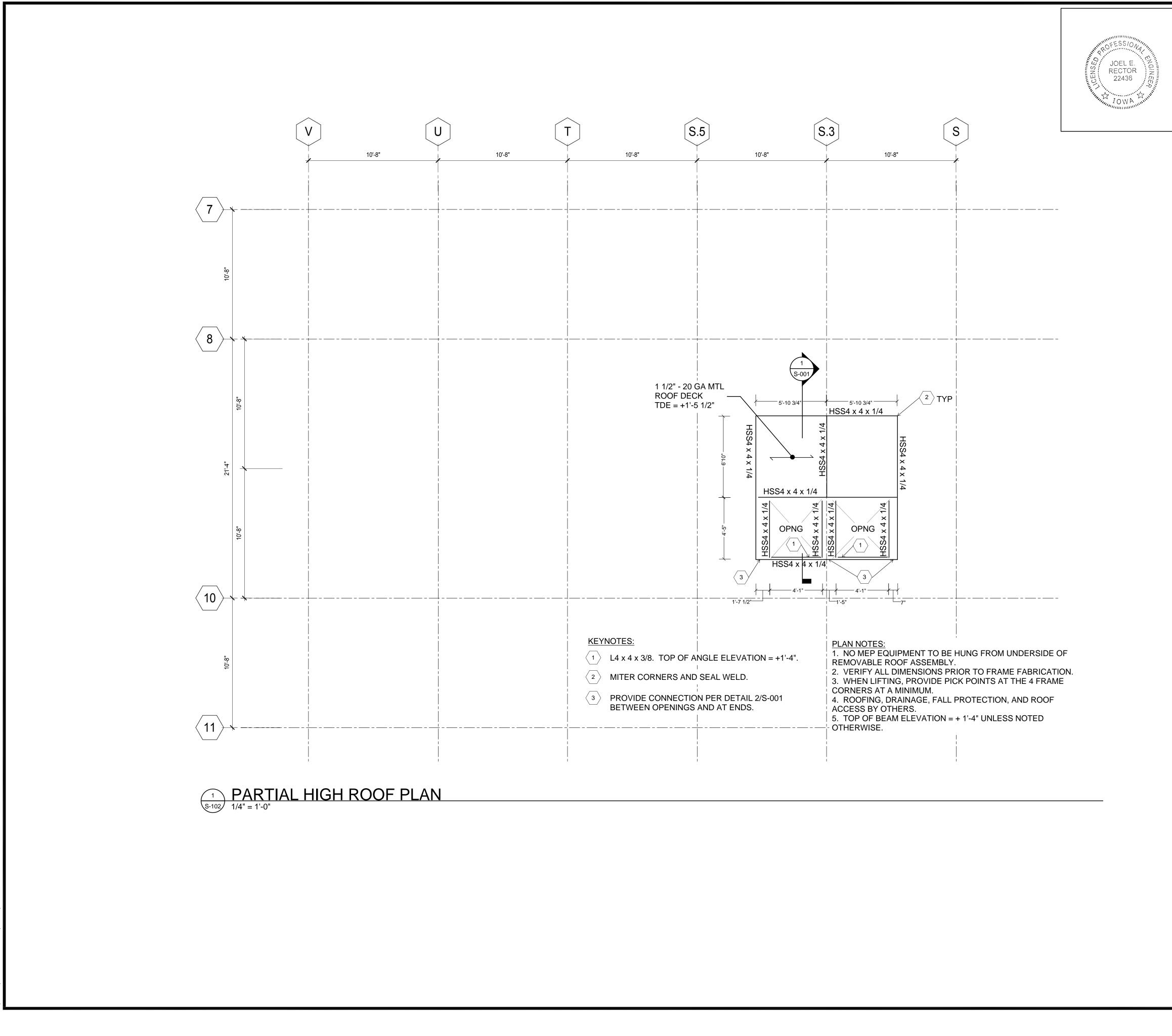
UTTERS (signature)

2/24/2023

(date)

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\$FILEI

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

(signature)

2/24/2023

(date)

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