

2018 NORTH CAROLINA BUILDING CODE SUMMARY: APPENDIX B

Name of Project: HARNETT REGIONAL AIRPORT HANGAR #2, Address: 497 AIRPORT ROAD, Proposed Use: AIRCRAFT HANGAR (U)

DESIGNER TABLE with columns: DESIGNER, FIRM, NAME, LICENSE #, TELEPHONE #, E-MAIL

2018 NORTH CAROLINA BUILDING CODE: [X] New Building, [X] Alteration Level I, [X] Alteration Level II

BASIC BUILDING DATA: Construction Type: [X] I-A, [X] II-A, [X] III, [X] V-A

GROSS BUILDING AREA TABLE with columns: FLOOR, EXISTING (sq ft), NEW (sq ft), SUBTOTAL

Primary Occupancy Classification(s): [X] A-1, [X] A-2, [X] A-3, [X] A-4, [X] A-5

Accessory Occupancy Classification(s): NONE, Incidental Uses (Table 509): NONE

Separated Use Formula 508.4.2: Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B <= 1

Table with columns: STORY NUMBER, DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2.4 AREA, (C) AREA FOR FRONTAGE INCREASE (S), (D) ALLOWABLE AREA PER STORY (OR UNLIMITED 2, 3)

1 Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = 120 (F)

FRONTAGE INCREASE WORKSHEET FOR CALCULATIONS: Table with columns: EXTERIOR WALL, (F) OPEN LENGTH (feet), (G) TOTAL LENGTH (feet), (H) (W) (weighted average) WIDTH OF PUBLIC WAY OR OPEN SPACE (feet), (I) FROM CALC. ABOVE, (J) FROM TABLE ABOVE, AREA INCREASE FOR COLUMN (C) ABOVE (% * TABLE AREA)

2 Unlimited area applicable under conditions of Sections 507, 3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2).

BUILDING CODE SUMMARY (continued)

ALLOWABLE HEIGHT TABLE with columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE

FIRE PROTECTION REQUIREMENTS TABLE with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (feet), RATING ** (TABLE 601), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS

PERCENTAGE OF WALL OPENING CALCULATIONS TABLE with columns: EXTERIOR WALL, FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE, DEGREE OF OPENINGS PROTECTION (TABLE 705.5), ALLOWABLE AREA (sq ft), ACTUAL SHOWN ON PLANS (sq ft)

LIFE SAFETY SYSTEM REQUIREMENTS TABLE with columns: Emergency Lighting, Exit Signs, Fire Alarm, Smoke Detection Systems, Carbon Monoxide Detection, Life Safety Systems Generator

LIFE SAFETY PLAN REQUIREMENTS: [X] Fire and/or smoke rated wall locations (Chapter 7), [X] Assumed and real property line locations (if not on the site plan)

ACCESSIBLE DWELLING UNITS (SECTION 1107) TABLE with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) TABLE with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, REGULAR WITH 5' ACCESS AISLE, VNI SPACES WITH 132" ACCESS AISLE, 96" ACCESS AISLE, TOTAL # ACCESSIBLE PROVIDED

BUILDING CODE SUMMARY (continued)

PLUMBING FIXTURE REQUIREMENTS (TABLE 2802.1) TABLE with columns: USE, WATER CLOSETS, URINALS, LAVATORIES, SHOWERS/TUBS, DRINKING FOUNTAINS, SERVICE SINK

SPECIAL APPROVALS: Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHS, ICC, etc., describe below)

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Method of Compliance: Energy Code: [X] Performance, [X] Prescriptive, ASHRAE 90.1: [X] Performance, [X] Prescriptive

THERMAL ENVELOPE (Prescriptive method only): Roof/Ceiling Assembly (each assembly) METAL BUILDING ROOF PANEL

Exterior Walls (each assembly) METAL BUILDING WALL PANEL WITH R-19 INSULATION

Floors over unconditioned space (each assembly) N/A

Floors slab on grade: 6" CONCRETE SLAB

MECHANICAL SUMMARY (SEE DRAWING SHEET M1)

ELECTRICAL SUMMARY (SEE DRAWING SHEET E1)

Harnett County, CUMBERLAND COUNTY BUILDING CODE SUMMARY for:

HARNETT REGIONAL AIRPORT HANGAR #2

497 AIRPORT RD, ERWIN, NORTH CAROLINA, 28339

NOTICE TO CONTRACTOR: All construction must comply with current NC Building Codes and is subject to field inspection and verification. Reviewed for Code Compliance 03/10/2026



DESIGNED / CHECKED BY: KJD, DRAWN BY: BT, PROJECT #: 2025-07-21, DATE: 05 AUGUST 2025

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY, PRELIMINARY [X] FOR DESIGN DEVELOPMENT ONLY, FINAL DRAWING [X] FOR CONSTRUCTION

OWNER/TEENANT: CONTRACTOR/BUILDER:

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2, 497 AIRPORT RD., ERWIN, NC 28339, SHEET: BUILDING CODE SUMMARY

BCS

Vertical scale markings on the left side of the page, ranging from 1'-4" to 16'-0".

1'-4"
2'-0"
4'
6'
8'
10'-8"
16'
0 4' 8' 12' 16' 20' 24' 28' 32' 36' 40' 44' 48' 52' 56' 60' 64' 68' 72' 76' 80' 84' 88' 92' 96' 100'

1'-4"
2'-0"
4'
6'
8'
10'-8"
16'
0 4' 8' 12' 16' 20' 24' 28' 32' 36' 40' 44' 48' 52' 56' 60' 64' 68' 72' 76' 80' 84' 88' 92' 96' 100'

REINFORCING STEEL
ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO A.S.T.M. A615, GRADE 60.
ALL REINFORCING STEEL SHALL BE MANUFACTURED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. 318R, 318R AND A.C.I. SP 66.
WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185, IN AS LONG A LENGTH AS IS PRACTICAL. WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST ONE GRID WIDTH PLUS 2". REINFORCEMENT SHALL BE BENT COLD AND SHALL NOT BE WELDED.

SPLICES:
REINFORCEMENT IN CONCRETE AND MASONRY SHALL HAVE LAP LENGTHS AS FOLLOWS, UNLESS OTHERWISE SPECIFIED ON DRAWINGS:
BAR SIZE:

BAR SIZE:	IN CONCRETE:	IN MASONRY:
#3	1'-6"	2'-0"
#4	2'-0"	2'-6"
#5	2'-6"	3'-0"

PLACEMENT:
REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONCRETE, METAL, OR OTHER APPROVED CHAIRS, SPACERS OR TIES, AND SECURED AGAINST DISPLACEMENT DURING CONCRETE OR GROUT PLACEMENT.

EXCEPT WHERE OTHERWISE NOTED, REINFORCEMENT SHALL HAVE CONCRETE COVER AS FOLLOWS:

CONCRETE DEPOSITED AGAINST EARTH	3"
FORMED CONCRETE AGAINST EARTH	2"
EXTERIOR FACES OF WALLS	1"
TO TOP OF SLABS-ON-GRADE	3/4"

ALL SCALES, LOOSE RUST, GREASE OR DIRT SHALL BE REMOVED FROM THE REINFORCING BEFORE IT IS PLACED.
PROVIDE #5 "HARPI" X 20' LONG AT EXTERIOR COLUMN LINES.
ANCHOR BOLTS SHALL BE (A-3077) HIGH STRENGTH.

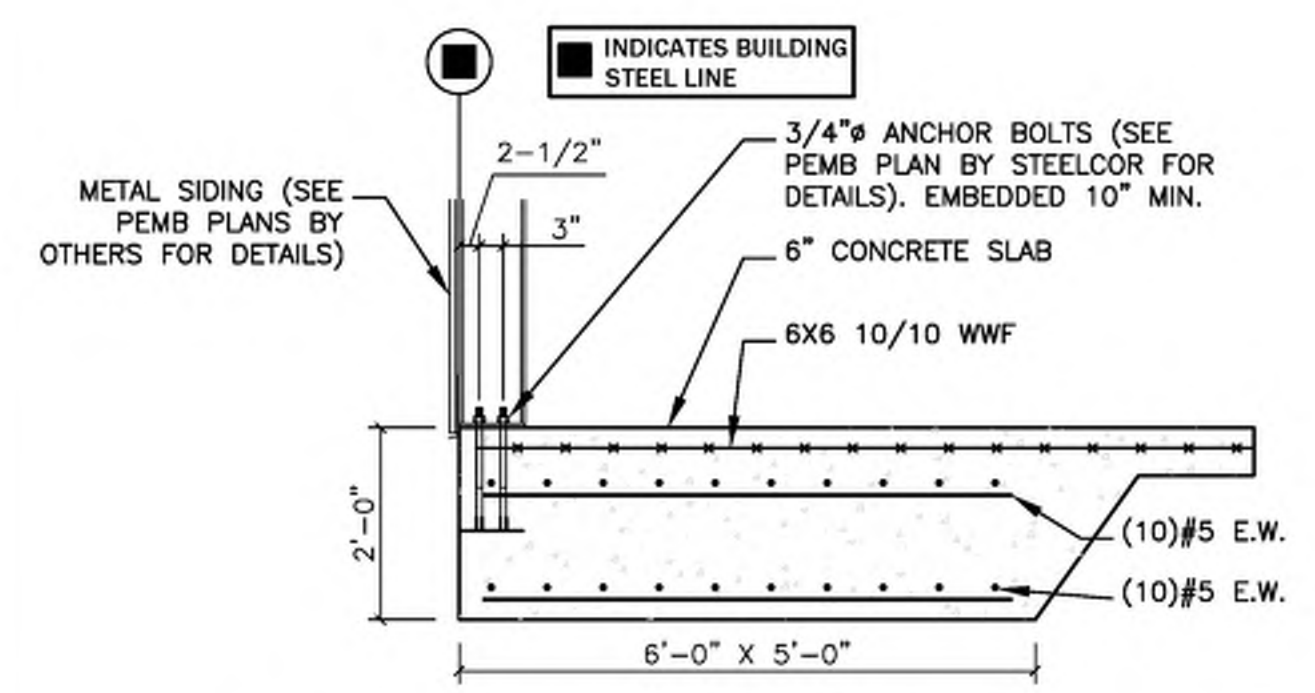
SOIL TREATMENT:
ADMINISTRATION AS ACCEPTABLE

GENERAL CONDITIONS
THE GENERAL CONTRACTOR SHALL MAKE ADEQUATE SANITARY PROVISIONS.
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY AND COMPLIANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT AS IT MAY REGARD ANY PHASE OF THE WORK ON THIS PROJECT.

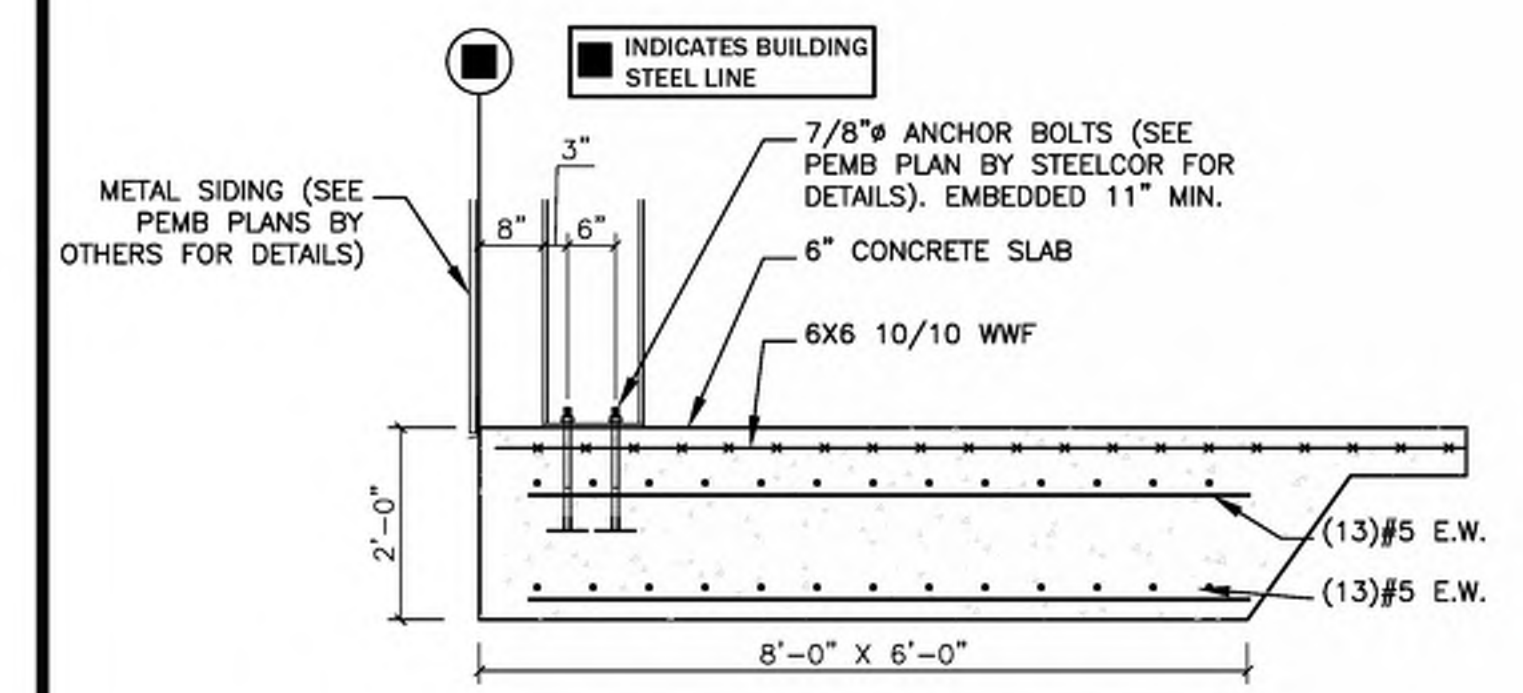
SOIL COMPACTION AND TESTING
THE GENERAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING LABORATORY, SUCH AS S&M OR LAW ENGINEERING FOR THE PURPOSE OF DETERMINING THE SUITABILITY OF THE SUBSURFACE CONDITIONS AND THE BEARING CAPACITIES OF ALL AREAS BELOW CONCRETE (2000psf ASSUMED).
THE SOIL AND BEARING REPORT SHALL BE SUBMITTED PRIOR TO EXCAVATING, WHERE POSSIBLE, BUT PRIOR TO PLACEMENT OF ANY REINFORCING AND CONCRETE.

CONCRETE WORK

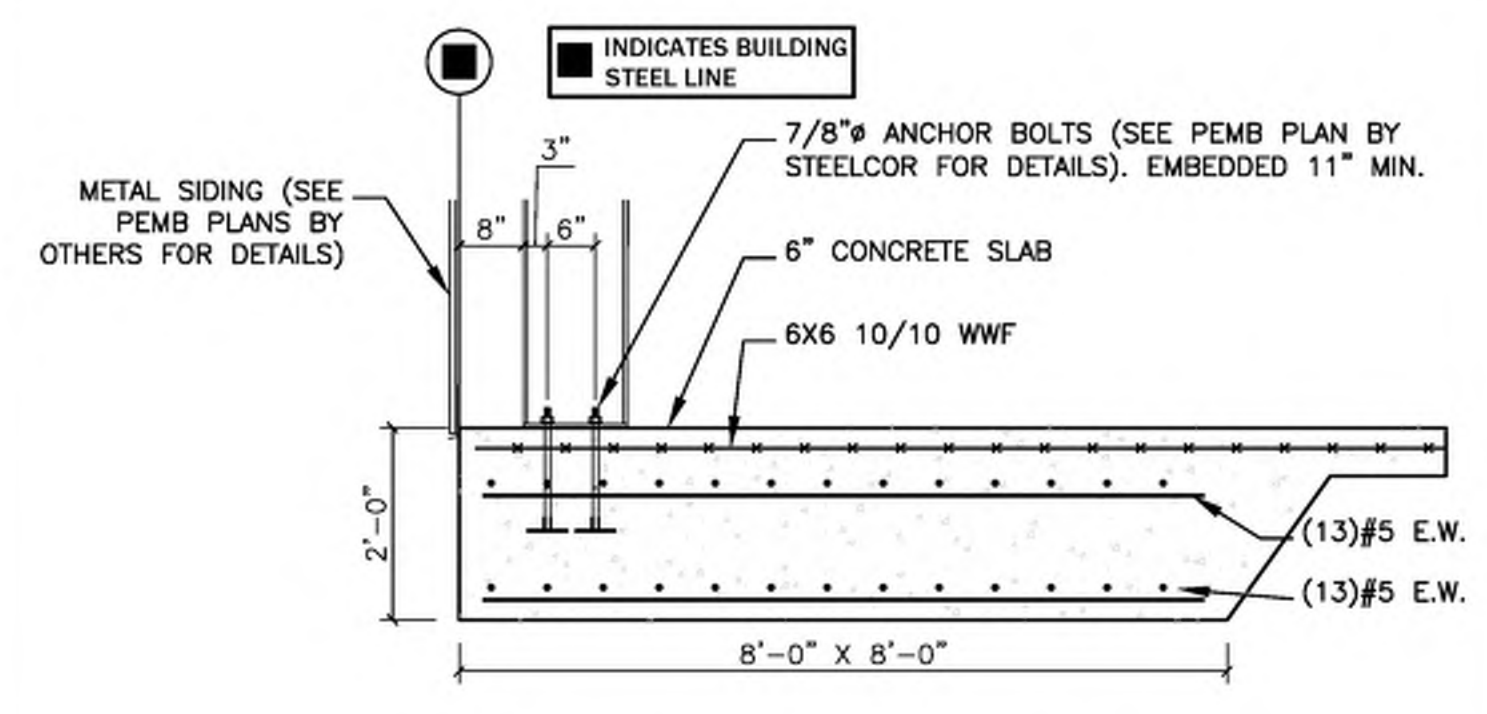
- ALL CONCRETE FOR THE PROJECT SHALL BE "READY MIX" AND SHALL COMPLY WITH ASTM C-94. ALL SECTIONS OF THE CONCRETE WORK SHALL COMPLY WITH ALL A.S.T.M. AND A.C.I. REQUIREMENTS.
- FORM WORK - ALL FORMS TO BE CAREFULLY BUILT AND SECURED IN PLACE IN SUCH A MANNER AS TO HAVE SUFFICIENT STRENGTH TO CARRY THE DEAD WEIGHT OF THE CONSTRUCTION AS A LIQUID, WITHOUT DEFLECTION OR VIBRATION. FORMS TO BE BUILT TIGHT, TRUE TO POSITION AND DIRECTION, THOROUGHLY BRACED, WIRED AND SPIKED OR OTHERWISE FASTENED TOGETHER.
- CONCRETE - MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD OF CONCRETE, MAXIMUM OF 4" SLUMP.
- FINISHING - IN ACCORDANCE WITH THE LATEST A.C.I. CODE, PLUMB, LEVEL, TRUE IN LINE, FREE OF HONEYCOMB. BUILDING SLAB SHALL HAVE A HARD STEEL TROWEL FINISH. WALKS SHALL HAVE BROOMED FINISH AND EXPANSION JOINTS AT APPROXIMATELY 50'-0" O.C. AND DUMMY JOINTS AS SHOWN ON THE SITE PLAN.
- REMOVAL OF FORMS - FORMS SHALL BE CAREFULLY REMOVED SO AS NOT TO IMPAIR THE FACE OF THE CONCRETE. IMMEDIATELY AFTER THE FORMS ARE REMOVED ALL DAMAGE OF IMPERFECT WORK SHALL BE PATCHED IN A NEAT AND WORKMANLIKE MANNER OR IF BADLY DAMAGED, IN THE OPINION OF THE OWNER, THE WORK SHALL BE REBUILT. THE MINIMUM TIME BEFORE ANY FORMS CAN BE REMOVED IS SEVEN (7) DAYS FOR SUCH MEMBERS AS ARE SUBJECT TO BENDING STRESSES, SUCH AS SLABS.
- CURING - USE MEMBRANE CURING METHOD. USE MFG. RATE, SPRAY IMMEDIATELY FOLLOWING FINISHING. PROTECT FROM FREEZING WEATHER, CURE A TOTAL OF 28 DAYS USING A.C.I. METHODS.



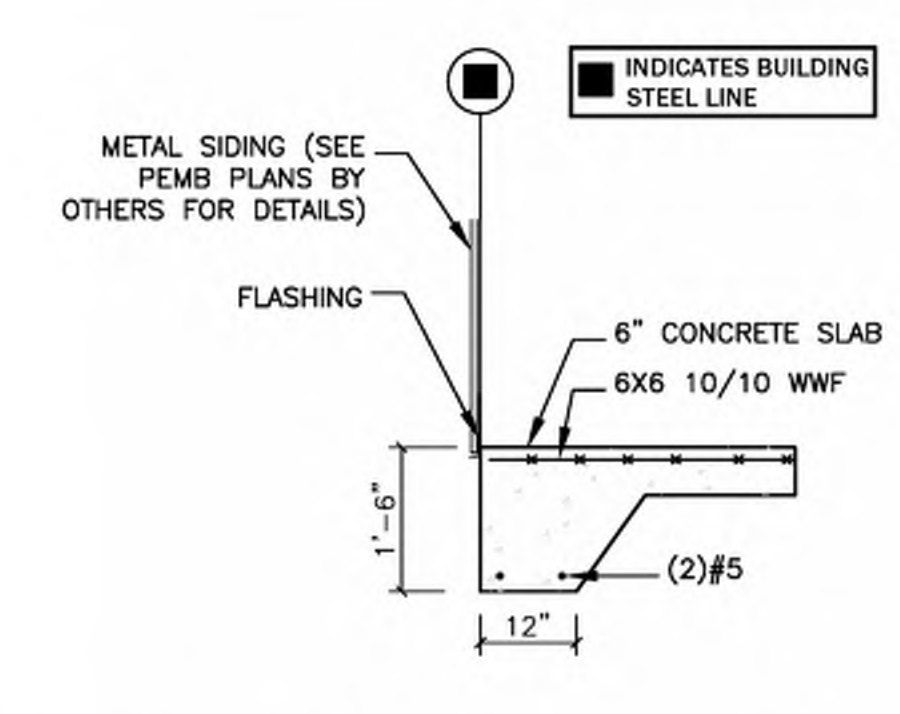
3 FOOTING DETAIL F1 (B)
S2 1/2" = 1'-0"



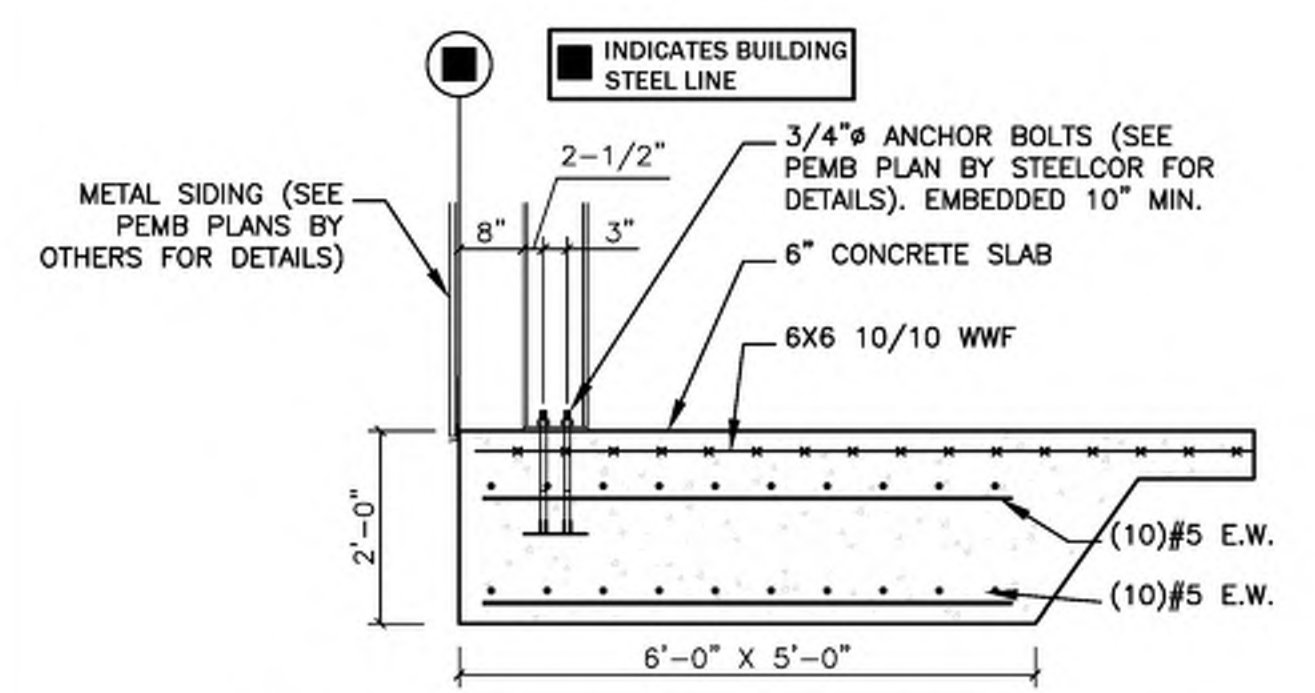
7 FOOTING DETAIL F4 (D)
S2 1/2" = 1'-0"



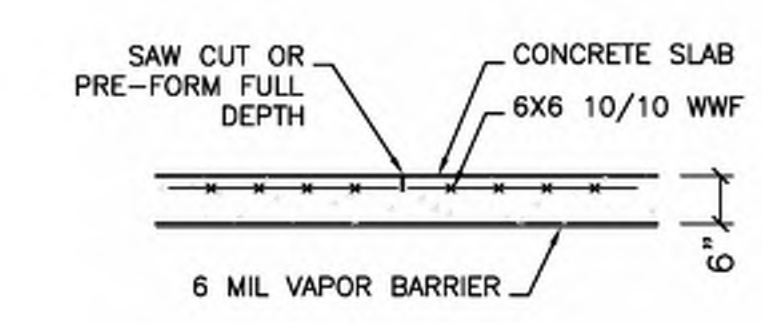
4 FOOTING DETAIL F2 (E)
S2 1/2" = 1'-0"



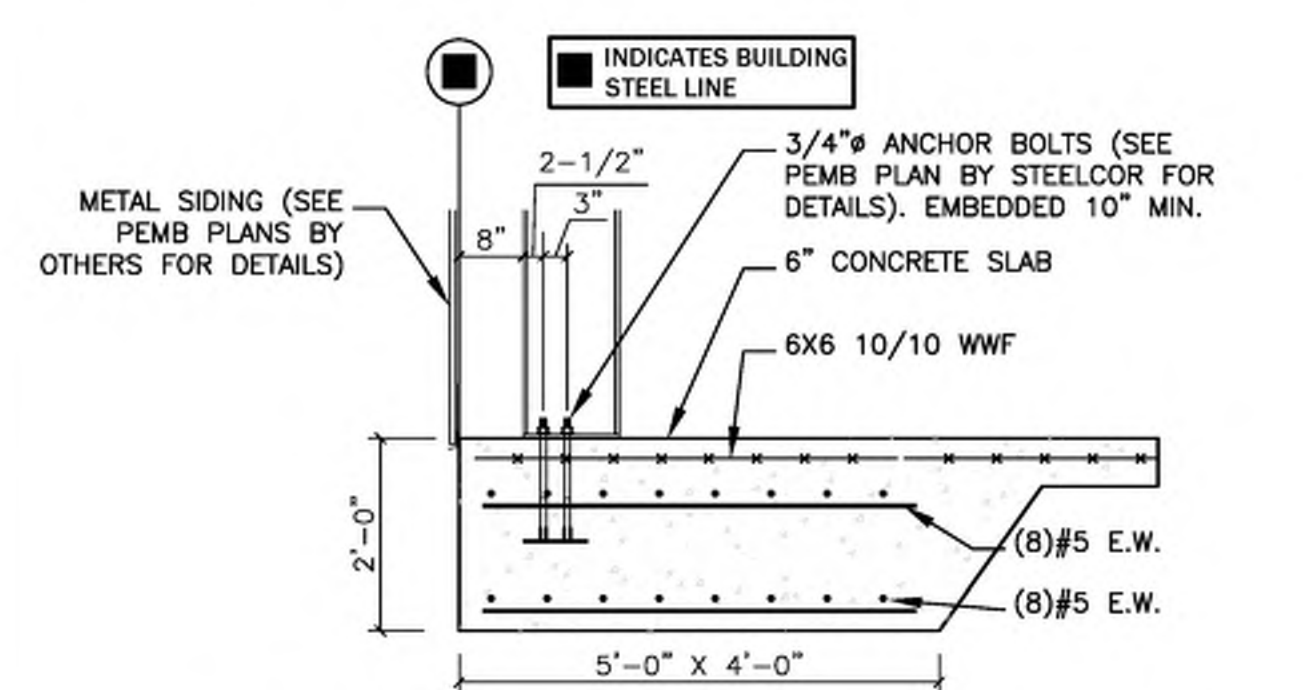
8 PERIMETER FOOTING DETAIL
S2 1/2" = 1'-0"



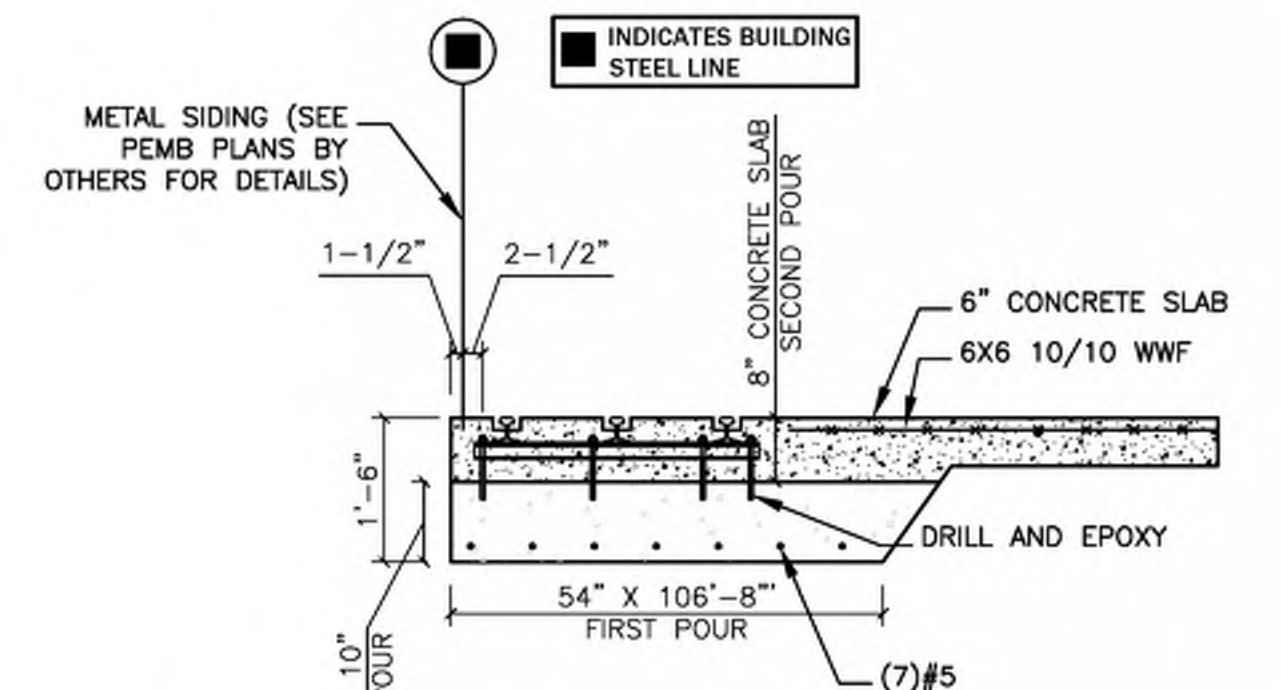
5 FOOTING DETAIL F1 (A)
S2 1/2" = 1'-0"



9 CONTROL JOINT DETAIL
S2 1/2" = 1'-0"



6 FOOTING DETAIL F4 (C)
S2 1/2" = 1'-0"



10 HANGAR DOOR ANCHOR BOLT
S2 1/2" = 1'-0"

1'-4" 8" 4" 2'-0" 0 4" 1'-1/2" SCALE: 1-1/2" = 1'-0"
 2'-0" 0 4" 1'-0" SCALE: 1" = 1'-0"
 6" 1'-0" SCALE: 3/4" = 1'-0"
 2'-8" 0 4" 1'-0" SCALE: 1/2" = 1'-0"
 4" 0 8" 1'-4" SCALE: 3/4" = 1'-0"
 0 8" 1'-4" SCALE: 1/2" = 1'-0"
 0 1' 2" SCALE: 1/2" = 1'-0"
 0 1' 2" SCALE: 1/2" = 1'-0"
 0 4" 1'-0" SCALE: 1/4" = 1'-0"
 0 4" 1'-0" SCALE: 1/4" = 1'-0"
 10'-8" 0 2' 1'-0" SCALE: 1/8" = 1'-0"
 0 4" 1'-0" SCALE: 1/8" = 1'-0"
 0 4" 1'-0" SCALE: 1/8" = 1'-0"
 16' 0 2'-8" 5'-4" SCALE: 3/16" = 1'-0"
 0 4" 1'-0" SCALE: 1/8" = 1'-0"
 0 4" 1'-0" SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.
	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.; TAMPER RESISTANT
	DUPLEX RECEPTACLE; GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX RECEPTACLE; WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER
	QUAD RECEPTACLE; MOUNT AT 18" A.F.F.
	2 POLE 208/240V RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SINGLE POLE POWER/LIGHTING HOMERUN
	2-POLE POWER HOMERUN
	3-POLE POWER HOMERUN (3 PHASE)
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED VOICE (TELEPHONE) OUTLET
	WALL MOUNTED VOICE/DATA OUTLET
	TIMECLOCK
	TELEVISION OUTLET
	DISCONNECT
	JUNCTION BOX
	POWER PANEL
	SWITCH
	3-WAY SWITCH
	SWITCH WITH DIMMER
	OCCUPANCY SENSOR WITH MANUAL OVERRIDE
	LAY-IN/SURFACE MOUNTED LED LIGHT FIXTURE
	LAY-IN/SURFACE MOUNTED LED; NIGHT LIGHT
	PENDANT LIGHT
	CAN LIGHT
	EMERGENCY LIGHT
	EXIT/EMERGENCY COMBO
	EXIT LIGHT
	REMOTE HEAD FOR EXIT LIGHTING
	EXTERIOR MOUNTED WALL PACK

ELECTRICAL NOTES:
 ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NEC.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN, 600 VOLTS, WITH COPPER CONDUCTORS, CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED, CONDUCTOR SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED.

ROMEX CAN NOT BE USED IN THIS PROJECT. MC CAN BE USED.

FMT SHALL BE GALVANIZED STEEL TUBING 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUMITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS. MC CABLE MAY BE SUBSTITUTED FOR CONDUIT RACEWAYS WHERE PERMITTED BY THE CODE AND APPROVED BY OWNER.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM, NONMETALLIC, HEAVY DUTY, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH OF 72 INCHES FOR LIGHTING, AND 36 INCHES FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUID TIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET, OR OUTSIDE AREAS, AND LIQUID TIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TELEPHONE OUTLETS ARE TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 1 1/2 INCHES BETWEEN RECEPTACLES AND TELEPHONE OUTLETS.

ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL ALIGN ALL FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. FOLLOW THE REFLECTED CEILING PLAN IF PROVIDED.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS, FIXTURES, CONDUIT, AND ETC. FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT THAT WILL BE ACTUALLY INSTALLED, RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION FOR USE WITH ACTUAL EQUIPMENT.

ALL LIGHT SWITCHES, RECEPTACLES, WALL PLATES, TELEPHONE/COMPUTER OUTLET BOXES, AND CABLE OUTLET BOXES SHALL BE WHITE.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED IN HIS CONTRACT AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE ELECTRICAL CONTRACTORS EXPENSE.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE DRAWINGS FOR FLOOR PLAN AND BUILDING ELEVATION DIMENSIONS.

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE ELECTRICAL CONTRACTOR TO ORGANIZE HIS CONDUIT, WIRE, AND CABLE RUNS IN ATTIC SPACES AND ABOVE CEILINGS, MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS. FREE RUNS OF PHONE, TELEVISION, SECURITY, ALARM, AND OTHER CABLES IS NOT ACCEPTABLE.

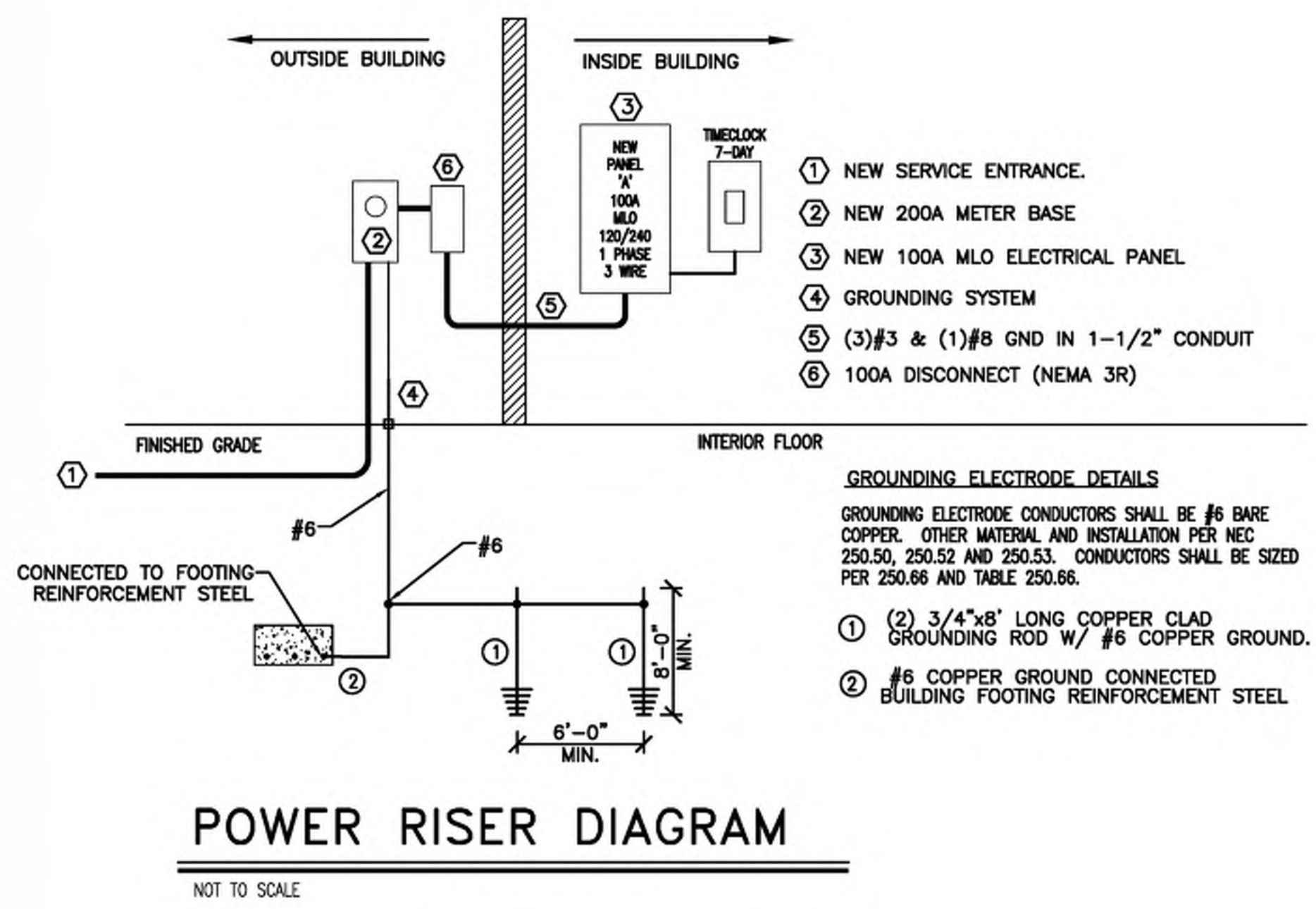
ALL DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AND ETC. SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR. WHERE EQUIPMENT PENETRATES EXTERIOR WALLS OR ROOF, THEY SHALL BE PROPERLY SEALED.

EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND ELECTRICAL WIRING BY THE ELECTRICAL CONTRACTOR.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

THE ELECTRICAL CONTRACTOR IS NOT TO SCALE THE DRAWINGS FOR RECEPTACLES AND LIGHT FIXTURES TO BE INSTALLED. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY TO SHOW GENERAL LOCATION. THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES AND LIGHT FIXTURES WITH THE GENERAL CONTRACTOR AND/OR CASEWORK DRAWINGS.

ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE RATED FOR 20 AMP UNLESS NOTED OTHERWISE.

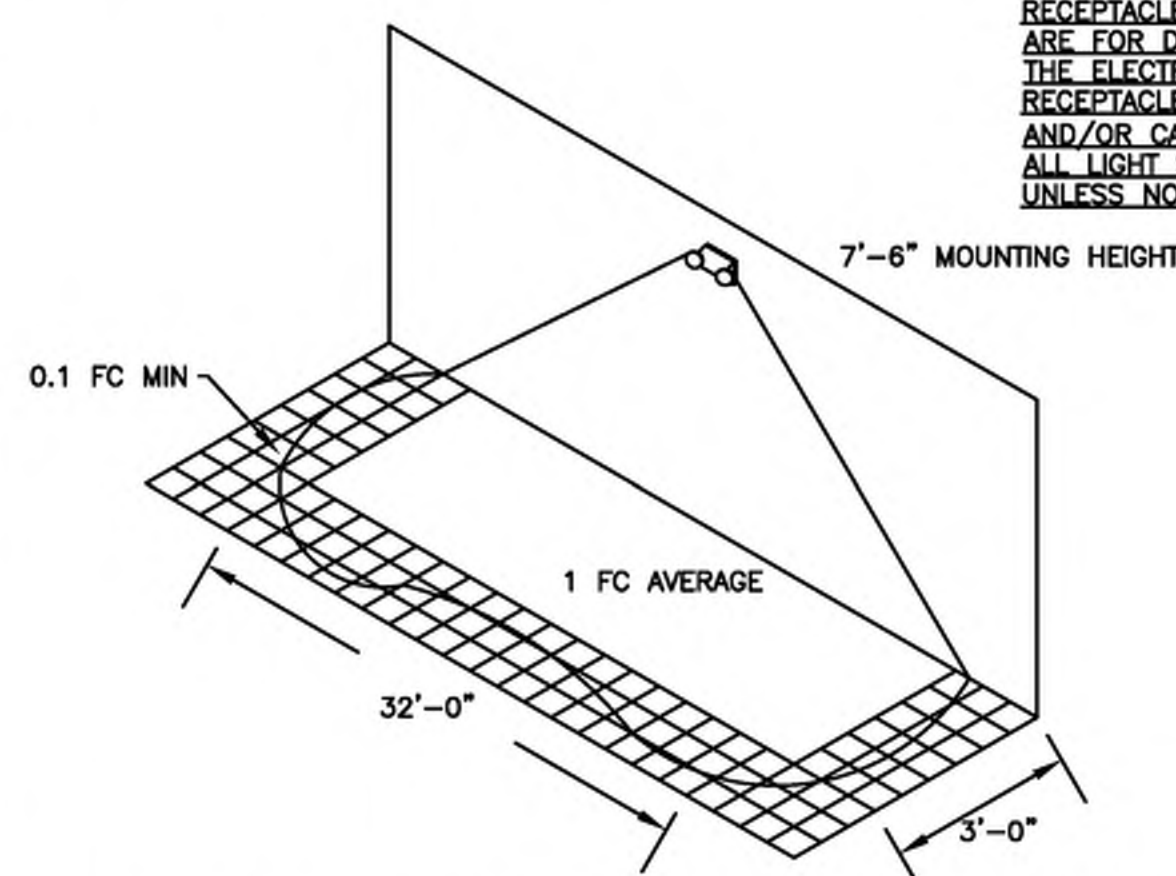


PANEL "A"

PHASE: 1		WIRE: 3		VOLTS: 240/120		MAIN LOAD: 100A MLO	
TYPE: NEMA 1		MOUNTING: SURFACE		ENCLOSURE:			
SHORT CIRCUIT RATING: 22 kA RMS SYM.		GROUND TERMINAL BAR		NEUTRAL TERMINAL BAR			
X		X		X			
PHASE LOADING	DESCRIPTION	CKT. TYPE	WIRE SIZE	CKT. NO.	CKT. NO.	DESCRIPTION	PHASE LOADING
A	B			A	B	A	B
1.72	LIGHT - LEFT BAY	C	#12	20/1	1	LIGHT - RIGHT BAY	1.72
1.72	LIGHT - CENTER BAY	C	#12	20/1	3	LIGHT EXTERIOR + TIMECLOCK	0.55
0.55	RECEPT - LEFT WALL	R	#12	20/1	5	RECEPT - RIGHT WALL	0.55
0.55	RECEPT - REAR WALL	R	#12	20/1	7		
				9	10		
				11	12		
				13	14		
				15	16		
				17	18		
				19	20		
				21	22		
				23	24		
				25	26		
				26	28		
				29	30		
2.27	2.27	SUB-TOTAL (KVA)		SUB-TOTAL (KVA)		2.25	0.55
H-HVAC LOAD		C-CONTINUOUS LOAD		TOTAL CONNECTED LOAD = 7.34 KVA			
K-KITCHEN LOAD		N-NON CONTINUOUS LOAD		TOTAL AMPS = 30.58 A			
E-ESTIMATED LOAD		R-RECEPTACLE LOAD		TOTAL OF: 30 SPACES			

TOTAL CONNECTED LOAD SUMMARY

ITEM	CONNECTED LOAD (KVA)	ESTIMATED LOAD (KVA)
HVAC	0	0
LIGHTING	5.71	7.13
RECEPTACLES	1.65 (1-10.00+80+10.00)	1.65
MISC. EQUIPMENT	0	0
TOTAL CONNECTED	7.34 KVA	30.58 AMPS
ESTIMATED DEMAND	6.78 KVA	36.58 AMPS



ASSUMES OPEN SPACE WITH NO OBSTRUCTIONS, MOUNTING HEIGHT: 7'-6"; 10'-0" CEILING HEIGHT, AND REFLECTANCES 80/50/20

EMERGENCY LIGHT FIXTURE PERFORMANCE

MODEL: LITHONIA ELM2L

MOUNTING HEIGHT	ILLUMINATION LEVEL	SINGLE LUMINAIRE COVERAGE		MULTIPLE LUMINAIRE SPACING	
		3' PATH OF EGRESS	6' PATH OF EGRESS	3' PATH OF EGRESS	6' PATH OF EGRESS
7'-6"	1FC AVG	32'	24'	35'	28'
10'	1FC AVG	20'	14'	27'	23'

APPENDIX B ELECTRICAL DESIGN 2018 BUILDING CODE SUMMARY

PROJECT NAME: **HARNETT COUNTY AIRPORT HANGAR #2**

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
 METHOD OF COMPLIANCE:
 ENERGY CODE: X PRESCRIPTIVE PERFORMANCE
 ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
 LAMP TYPE REQUIRED IN FIXTURE LED
 NUMBER OF LAMPS IN FIXTURE (SEE FIXTURE SCHEDULE)
 BALLAST TYPE USED IN THE FIXTURE ELECTRONIC
 NUMBER OF BALLASTS IN FIXTURE 1
 TOTAL WATTAGE PER FIXTURE VARIES PER FIXTURE
 TOTAL INTERIOR WATTAGE SPECIFIED VERSUS ALLOWED 7,200 ALLOWED - 5,710 SPECIFIED
 TOTAL EXTERIOR WATTAGE SPECIFIED VERSUS ALLOWED N/A

SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS

C406.1 BUILDINGS SHALL HAVE AT LEAST ONE OF THE FOLLOWING PRESCRIPTIVE COMPLIANCE (REQUIRED FOR NEW BUILDINGS, OPTIONAL FOR EXISTING BUILDINGS)

1. MORE EFFICIENT MECHANICAL EQUIPMENT PER C406.2
2. REDUCED LIGHTING POWER DENSITY PER C406.3
3. ENHANCED LIGHTING CONTROL SYSTEMS PER C406.4
4. ON-SITE SUPPLY OF RENEWABLE ENERGY PER C406.5
5. DEDICATED OUTDOOR AIR SYSTEM PER C406.6
6. HIGHER EFFICIENCY SERVICE WATER HEATING PER C406.7

DESIGNER STATEMENT:
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NC ENERGY CONSERVATION CODE.

SIGNED: *Buddy Jenkins*
 NAME: BUDDY JENKINS
 TITLE: PROFESSIONAL ENGINEER



DESIGNED / CHECKED BY: BJ
 DRAWN BY: BT
 PROJECT #: 2025-07-21
 DATE: 05 AUGUST 2025

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY
 PRELIMINARY [] FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING [] FOR CONSTRUCTION

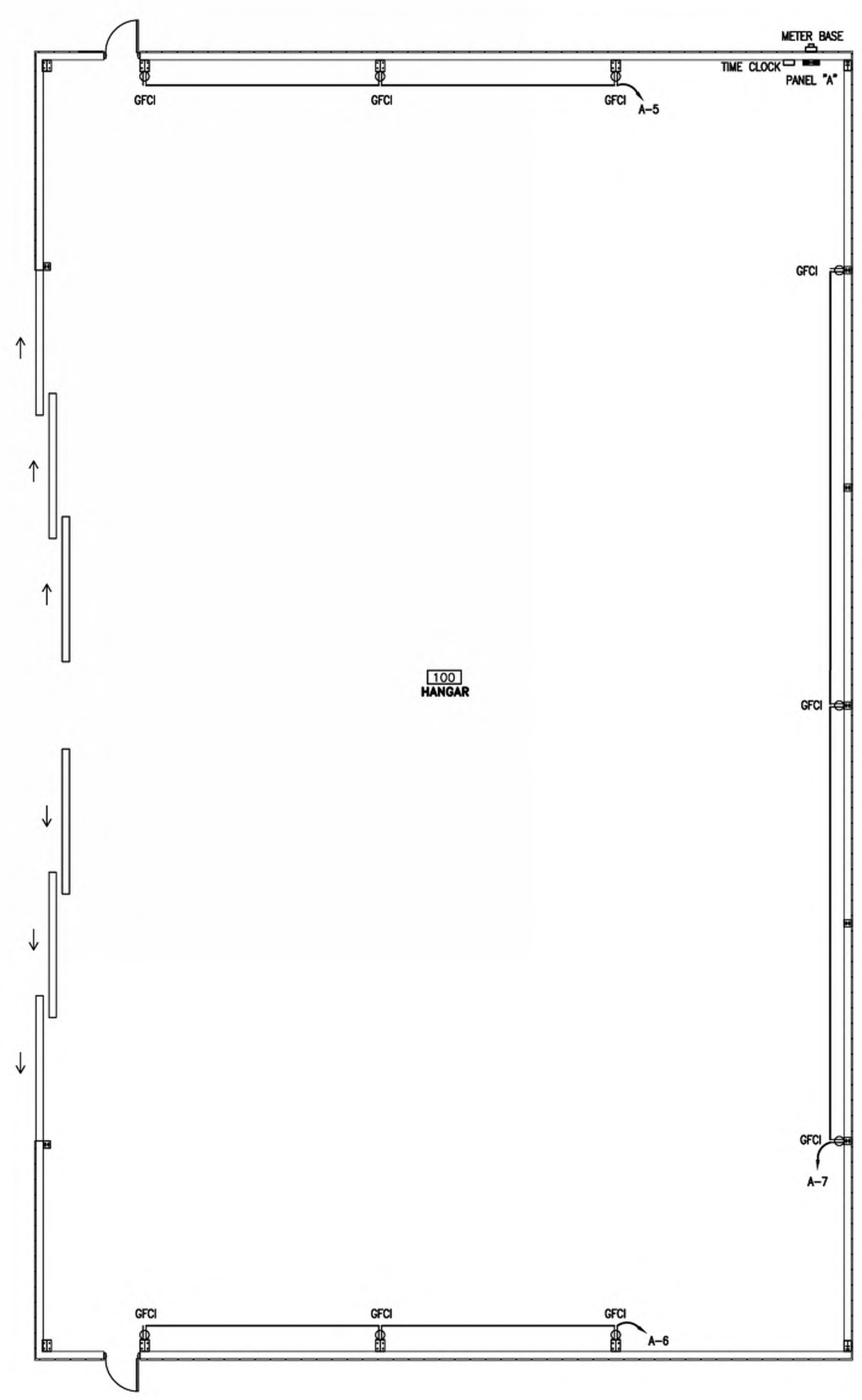
OWNER/TENANT:
 CONTRACTOR/BUILDER:

PROJECT: **HARNETT COUNTY AIRPORT HANGAR #2**
 497 AIRPORT RD. ERWIN, NC 28339

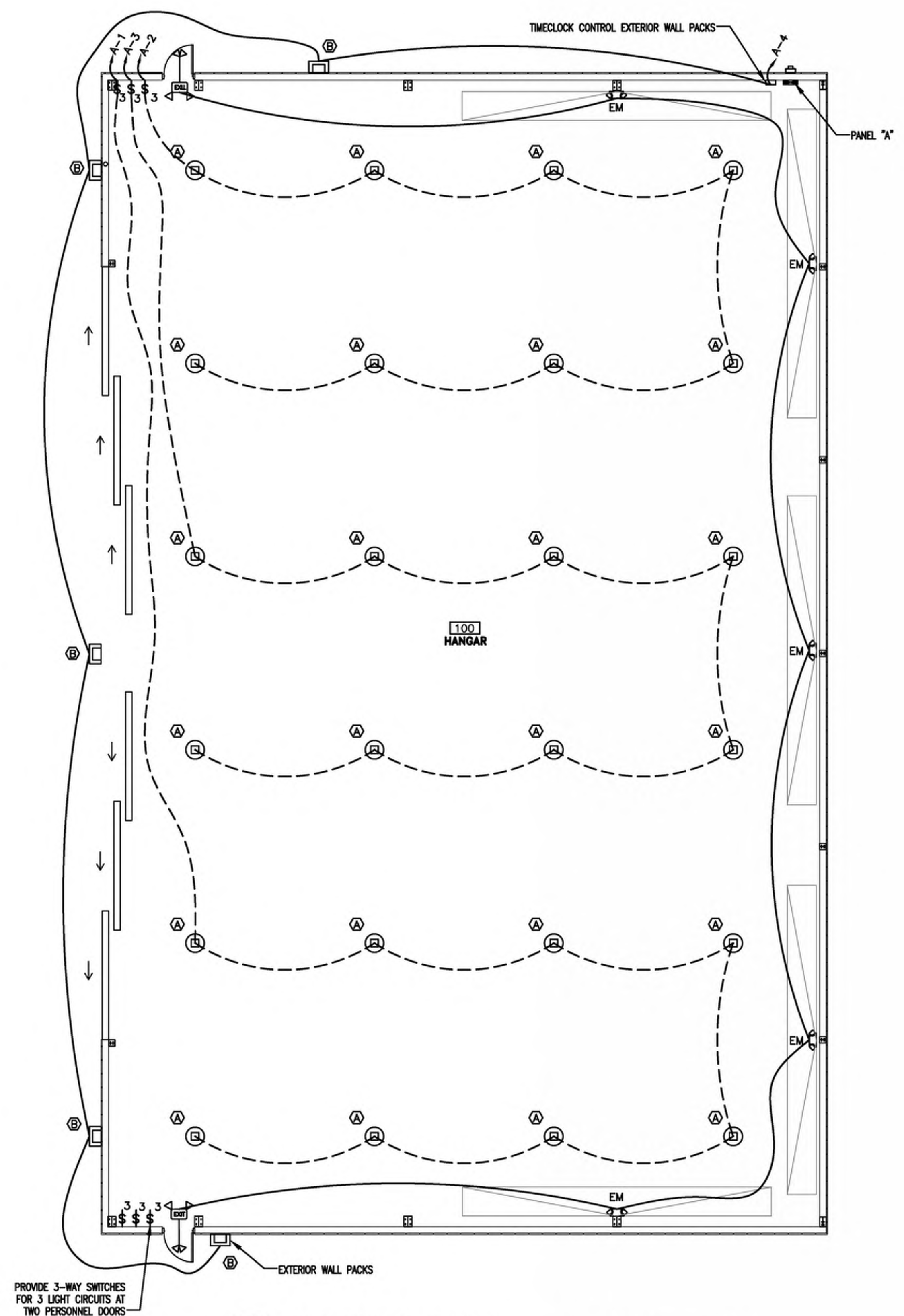
SHEET: **ELECTRICAL - RISER & NOTES**



Project: File: \\s\2025\Harnett County Airport #2 PD 2025-07-21\00\Harnett-Airport#2-29 July 2025.dwg
 Printed By: BT
 Printed Date: Aug 05, 2025 - 3:48pm



1 POWER PLAN
 E2
 SCALE: 1/8" = 1'-0"



2 LIGHTING PLAN
 E2
 SCALE: 1/8" = 1'-0"



DESIGNED / CHECKED BY:	BJ
DRAWN BY:	BT
PROJECT #:	2025-07-21
DATE:	05 AUGUST 2025

FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY	PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY	FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION
OWNER/TENANT:	CONTRACTOR/BUILDER:	

PROJECT: **HARNETT COUNTY AIRPORT HANGAR #2**
 497 AIRPORT RD. ERWIN, NC 28339
 SHEET: **ELECTRICAL - POWER & LIGHTING PLAN**

E2

BUILDING PROFILE

Width (ft) = 120 Eave Height (ft) = 26
 Length (ft) = 75 Roof Slope (Rise/12) = 1.0:12

BUILDING LOADS

- A) THIS IS TO CERTIFY THAT THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY NCBC 24 / IBC 21
- B) THIS CERTIFICATION IS LIMITED TO THE STRUCTURAL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED BY THE BUILDING MANUFACTURER AND AS SPECIFIED IN THE CONTRACT. ACCESSORY ITEMS SUCH AS DOORS, WINDOWS, LOUVERS, TRANSLUCENT PANELS, VENTILATORS ARE NOT INCLUDED. ALSO EXCLUDED ARE OTHER PARTS OF THE PROJECT NOT PROVIDED BY THE BUILDING MANUFACTURER SUCH AS FOUNDATIONS, MASONRY WALLS, MECHANICAL EQUIPMENT AND THE ERECTION AND INSPECTION OF THE BUILDING. THE BUILDING SHOULD BE ERECTED ON A PROPERLY DESIGNED FOUNDATION IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S DESIGN MANUAL, THE ATTACHED DRAWINGS, AND GOOD ERECTION PRACTICES. THE END USER AND/OR ENGINEER OF RECORD IS TO CONFIRM THAT THESE LOADS COMPLY WITH REQUIREMENTS OF THE LOCAL BUILDING DEPT.

OCCUPANCY/RISK CATEGORY II - Normal Is 1.0000 Ia 1.00

WIND LOAD ULTIMATE 120 MPH NOMINAL 92.95 MPH WIND EXPOSURE C

CLOSURE TYPE Enclosed INTERNAL WIND COEFF. -0.18 / 0.18

GROUND SNOW LOAD 10.00 PSF ROOF SNOW LOAD 7 PSF Cs 1.0000 Ct 1.00

SNOW BANKING LOADS PER CODE

COLLATERAL DEAD LOAD 3 PSF

ROOF LIVE LOAD 20.00 PSF (REDUCIBLE Yes)

DEAD LOAD 2.000 PSF (FOR ROOF PANELS AND PURLINS)

SEISMIC

SPECTRAL RESPONSE Ss 0.1860 S1 0.0860 Sds 0.1984 Sd1 0.1376

SITE CLASS D DESIGN RISK CATEGORY C Cs 0.0662

RESPONSE MODIFICATION FACTOR, R 3.000* FRAMES 3.000* BRACING

BASIC SEISMIC FORCE RESISTING SYSTEM (LATERAL DIRECTIONS) ORDINARY STEEL MOMENT FRAMES

BASIC SEISMIC FORCE RESISTING SYSTEM (REW) ORDINARY STEEL CONCENTRICALLY BRACED FRAMES

BASIC SEISMIC FORCE RESISTING SYSTEM (LEW) ORDINARY STEEL MOMENT FRAMES

BASIC SEISMIC FORCE RESISTING SYSTEM (LONGITUDINAL DIRECTIONS) ORDINARY STEEL CONC. BRACED FRAMES

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

SERVICEABILITY CRITERIA

* STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

MINIMUM DESIGN DEFLECTIONS			
Endwall Column	= 120	Roof Panel (Live)	= 60
Endwall Rafter (Live)	= 180	Roof Panel (Wind)	= 60
Endwall Rafter (Wind)	= 180	Rigid Frame (Horz)	= 60
Wall Girt	= 90	Rigid Frame (Vert)	= 180
Roof Purlin (Live)	= 150	Rigid Frame (Seismic)	= 50
Roof Purlin (Wind)	= 150		
Wall Panel	= 60		

GENERAL NOTES

- A) THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. THE BUILDING MANUFACTURER WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.
- B) THIS METAL BUILDING IS DESIGNED WITH THE BUILDING MANUFACTURER'S STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN"
 - AMERICAN IRON AND STEEL INSTITUTE: "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
 - AMERICAN WELDING SOCIETY: "STRUCTURAL WELDING CODE" AWS D1.1.
 - METAL BUILDING MANUFACTURER'S ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL"
- C) 1) MATERIAL PROPERTIES OF STEEL PLATE USED IN THE FABRICATION OF PRIMARY RIGID FRAMES, AND OTHER PRIMARY STRUCTURAL EXCLUSIVE OF COLD-FORMED SECTIONS, CONFORM TO ASTM-A529 OR A572 . FLANGES WITH THICKNESS OF ONE INCH OR LESS AND WIDTH OF 12" OR LESS CONFORM TO A529 WITH A MINIMUM YIELD POINT OF 55,000 psi. FLANGES GREATER THAN 1" IN THICKNESS OR 12" IN WIDTH CONFORM TO A572 WITH A MINIMUM YIELD POINT OF 50,000 psi. WEB MATERIAL CONFORMS TO ASTM-A529 WITH A MINIMUM YIELD POINT OF 55,000 psi.
- 2) MATERIAL PROPERTIES OF PIPE SECTIONS CONFORM TO ASTM-A500, GRADE B WITH A MINIMUM YIELD POINT OF 42,000 psi.
- 3) MATERIAL PROPERTIES OF TUBE SECTIONS CONFORM TO ASTM-A500, GRADE B WITH A MINIMUM YIELD POINT OF 46,000 psi.
- 4) MATERIAL PROPERTIES OF HOT ROLLED CHANNEL AND ANGLE MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A529 WITH-MINIMUM YIELD POINT OF 50,000 PSI. HOT ROLLED W-SHAPED MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A992 WITH MINIMUM YIELD POINT OF 50,000 PSI.
- 5) MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO EITHER ASTM A653-06 GR 55 OR A1011-04 HSLAS GRADE 55 WITH YIELD OF 55,000 psi.
- 6) MATERIAL PROPERTIES OF ROOF/WALL SHEETING, BASE METAL CONFORM TO ASTM-A792 GRADES 80 CLASS 1, 2 OR 3 WITH A MINIMUM YIELD STRENGTH OF 80,000 PSI. COATING OF BASE MATERIAL IS 55% ALUMINUM-ZINC ALLOY IN ACCORDANCE WITH AZ55 SPECIFICATIONS.
- 7) CABLE UTILIZED FOR BRACING CONFORMS TO ASTM A475. CABLE BRACING IS TO BE INSTALLED TO A TAUT CONDITION.
- 8) ROD UTILIZED FOR BRACING MEMBERS CONFORM TO ASTM-A36 WITH MINIMUM YIELD POINT OF 36,000 PSI.
- 9) IT IS THE RESPONSIBILITY OF ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE "RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A-325 OR A-490 BOLTS". ALL A-325 BOLTS IN PRIMARY FRAMING MUST BE "SNUG-TIGHT", EXCEPT AS FOLLOWS:
- "FULLY-PRETENSION" A-325 BOLTS IF:
- BUILDING LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODE, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E" OR "F".
 - BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5.00 TONS.
 - BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS - REVERSALS ON THE CONNECTIONS.
 - ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A-325 - SC".

- 10) SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS SHALL ALWAYS BE SNUG TIGHT, UNO.
- 11) ANCHOR BOLTS 3/4" IN DIAMETER THRU 1 1/4" IN DIAMETER CONFORM TO A.S.T.M. F1554 GR. 36. ANCHOR BOLTS 1/2" IN DIAMETER CONFORM TO A.S.T.M. A-307.
- D) UNLESS NOTED OTHERWISE ON FRAMING COLOR CHART: ALL STEEL MEMBERS EXCEPT BOLTS, FASTENERS, CABLE AND RODS SHALL RECEIVE ONE COAT OF STANDARD RED OXIDE SHOP PRIMER.
- E) SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS STIPULATED OTHERWISE IN THE CONTRACT.

APPROVAL NOTES

- THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:
- IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS:
 - BE MADE IN CONTRASTING INK.
 - HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.
 - BE LEGIBLE AND UNAMBIGUOUS.
 - DATED SIGNATURE IS REQUIRED ON ALL PAGES.
 - MANUFACTURER RESERVES THE RIGHT TO RESUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.
 - APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
 - ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

SAFETY COMMITMENT

- THE BUILDING MANUFACTURER HAS A COMMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF THE BUILDING MANUFACTURER.
- IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE.
- LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKER SAFETY.
- MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES.
- DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL, AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.

ERECTOR / CONTRACTOR RESPONSIBILITIES

- IT IS THE RESPONSIBILITY OF THE ERECTOR/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BUILDING MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.
 - THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
 - APPROVAL OF THE MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE BUILDING MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.4.1 AISC CODE OF STANDARD PRACTICES, LATEST ED.)
 - WHERE DISCREPANCIES EXIST BETWEEN THE MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE LATEST ED.)
 - DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE BUILDING MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE BUILDING MANUFACTURER'S ENGINEERS UNLESS SPECIFICALLY INDICATED.
 - THE ERECTOR/CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE BUILDING MANUFACTURER'S "FOR CONSTRUCTION" DRAWINGS.
 - PRODUCTS SHIPPED TO ERECTOR/CONTRACTOR OR HIS CUSTOMER SHALL BE INSPECTED BY ERECTOR/CONTRACTOR IMMEDIATELY UPON ARRIVAL CLAIMS FOR SHORTAGES OR DEFECTIVE MATERIAL IF NOT PACKAGED MUST BE SENT TO THE MANUFACTURER IN WRITING WITHIN FIVE (5) DAYS AFTER RECEIPT OF THE SHIPMENT. HOWEVER, IF A DEFECT IS OF SUCH A NATURE THAT REASONABLE VISUAL INSPECTION WOULD FAIL TO DISCLOSE IT, THEN THE CLAIM MUST BE MADE WITHIN FIVE (5) DAYS AFTER THE ERECTOR/CONTRACTOR LEARNS OF THE DEFECT. THE MANUFACTURER WILL NOT BE LIABLE FOR ANY DEFECT UNLESS CLAIM IS MADE WITHIN ONE (1) YEAR AFTER DATE OF THE ORIGINAL SHIPMENT BY THE MANUFACTURER TO CONTRACTOR OR HIS CUSTOMER. THE MANUFACTURER WILL BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT DEFECTIVE MATERIALS UPON RECEIPT OF CLAIM BY CONTRACTOR.
- IF A DEFECT IS OF SUCH NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB SITE WITHOUT THE NECESSITY OF RETURNING THE MATERIAL TO THE MANUFACTURER, THEN UPON WRITTEN AUTHORIZATION OF THE MANUFACTURER THE CONTRACTOR MAY REPAIR OR CAUSE THE MATERIAL TO BE REPAIRED AND THE MANUFACTURER WILL REIMBURSE THE CONTRACTOR FOR THE COST OF THE REPAIR IN ACCORDANCE WITH THE WRITTEN AUTHORIZATION.
- THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIFT PINS TO DRAW THE COMPONENTS IN TO LINE, MODERATE AMOUNTS OF REAMING, CHIPPING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM.
- H) ALL BRACING AS SHOWN AND PROVIDED BY THE MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.
- TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.10.3 AISC CODE OF STANDARD PRACTICE, LATEST ED.)
 - METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND WORKMANSHIP OF FOUNDATION. ANCHOR BOLT PLANS PREPARED BY MBM ARE INTENDED TO SHOW ONLY LOCATION, DIAMETER AND PROJECTION OF THE ANCHOR RODS REQUIRED TO ATTACH THE METAL BUILDING SYSTEM TO FOUNDATION. IT IS RESPONSIBILITY OF THE END CUSTOMER TO ENSURE THAT ADEQUATE PROVISIONS ARE MADE FOR SPECIFYING ROD EMBEDMENT, BEARING VALUES, THE RODS AND OTHER ASSOCIATED ITEMS EMBEDDED IN THE CONCRETE FOUNDATION, AS WELL AS FOUNDATION DESIGN FOR THE LOADS IMPOSED BY MB SYSTEM, OTHER IMPOSED LOAD, AND THE BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE (MBMA 06 SECTIONS 3.2.2 AND A3)
 - METAL BUILDING MANUFACTURER DOES NOT PROVIDE ANY FIELD SUPERVISION FOR THE ERECTION, NOR DOES MBM PERFORM ANY INSPECTIONS DURING OR AFTER ERECTION.

COMPONENTS & CLADDING (unfactored)

Wall Field Values = 32.081 psf / -34.755 psf
 Wall Edge Values = 32.081 psf / -42.695 psf

IT IS THE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE ALL DOCUMENTATION REQUIRED FOR ANY ACCESSORIES NOT PROVIDED BY MBM TO THEIR LOCAL PERMITTING OFFICE. ALL ACCESSORIES MUST COMPLY AND MEET ALL DESIGN REQUIREMENTS PER LOCAL CODES.

ALL VEHICULAR FRAMED OPENINGS SUPPLIED ON THIS PROJECT HAVE BEEN DESIGNED TO SUPPORT WIND LOADS NORMAL TO A DOOR SYSTEM, BASED ON THE STANDARD BUILDING CODE CRITERIA. THE VEHICULAR FRAMED OPENING HAS NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATEGORY FORCE FROM THE DOOR SYSTEM. ANY CHANGES TO THE INFORMATION SHOWN HERE WOULD REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

FRAMING COLORS

Rigid Frame:	<input type="checkbox"/> RO	RO - Red Oxide							
Flange brace:	<input type="checkbox"/> RO	GP - Gray Primer							
Angle:	<input type="checkbox"/> RO	GZ - Galvanized							
			Grt	Pur	Evst	Jmb	BB	Col	Raf
U SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
C SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
D SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
Z SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
E SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
R SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO
W SECTION:	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO	<input type="checkbox"/> RO

WHEN GALVANIZED PROVIDED: ALL FINISHED PRIMARY BUILT-UP AND HOT ROLL MEMBERS ARE HOT DIPPED GALVANIZED. ALL SECONDARY COLD FORMED MEMBERS ARE PRE-GALVANIZED.

IAS ACCREDITED
 Metal Building Systems
 AC 472

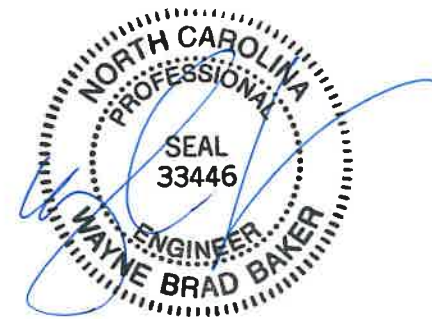
BUILDING DESIGNED & MANUFACTURED BY AN IAS ACCREDITED FACILITY.

DRAWING INDEX		
REV.	PAGE	DESCRIPTION
0		COVER PAGE
1		ANCHOR BOLT LAYOUT
1.1		ANCHOR BOLT DETAILS
1.2		ANCHOR BOLT REACTIONS
2		ROOF FRAMING LAYOUT
2.1-2.4		RIGID FRAME CROSS SECTION
3		SIDEWALL FRAMING LAYOUT
4		ENDWALL FRAMING LAYOUT
4.1		HANGER DOOR FRAMING
4.2		HANGER DOOR DETAILS
5-5.4		FRAMING DETAILS
6		ROOF PANELS & TRIM
6.1		ROOF PANEL DETAILS
7		SIDEWALL PANELS & TRIM
7.1		SIDEWALL PANEL DETAILS
8		ENDWALL PANELS & TRIM
8.1		ENDWALL PANEL DETAILS
9		SPECIAL DETAILS
10		LINER SHEETING & TRIM

THIS PROJECT IS DESIGNED AS AN ENCLOSED BUILDING. ACCESSORIES (DOORS, WINDOWS, ETC.) BY OTHERS MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE TO SPECIFIC WIND PROVISIONS OF REFERENCED BUILDING CODE.

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS OR EXTERIOR SYSTEMS NOT PROVIDED BY MBM SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS.

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



7-9-75

COLORS:

ROOF:	GALVALUME
LINER:	POLAR WHITE
DOOR PANEL:	SADDLE TAN
SOFFIT:	KOKO BROWN
WALLS:	SADDLE TAN
CABLE:	KOKO BROWN
EAVE:	KOKO BROWN
CORNER:	KOKO BROWN
FRAMED OPENINGS:	KOKO BROWN
GUTTER:	KOKO BROWN
DOWNSPOUTS:	KOKO BROWN
BASE:	KOKO BROWN

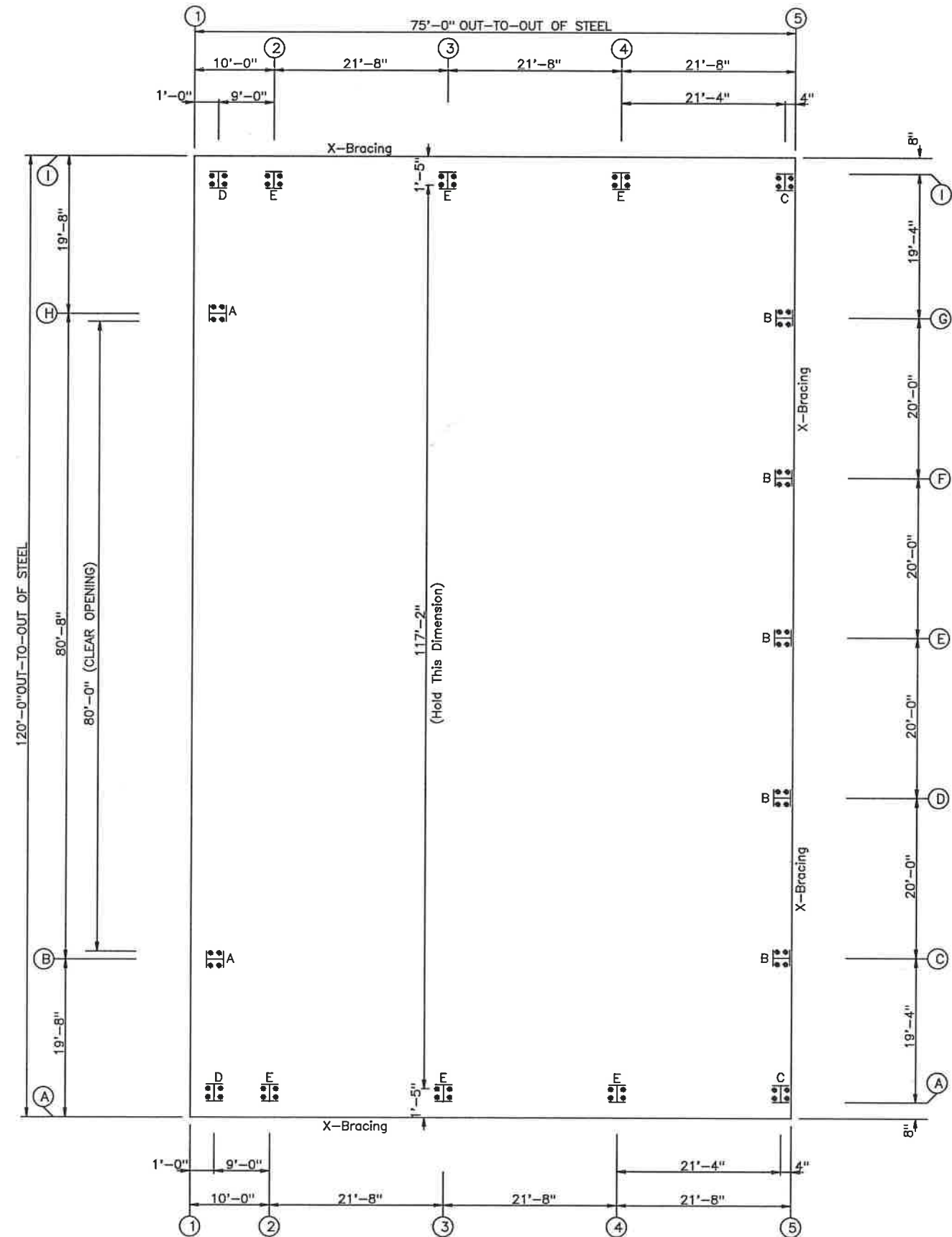
DRAWING STATUS

- FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
- FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
- FOR CONSTRUCTION: THESE DRAWINGS ARE FINAL AND ISSUED FOR FIELD USE FOR BUILDING ERECTION

DATE					
CHK					
DET					
ISSUE					
FOR:	ERWIN HANGAR	615 AIRPORT RD	ERWIN, NC 28339		
FROM:	STEELCOR BUILDINGS	4084 LYNHURST COURT	SARASOTA, FL. 34235		
JOB NO :	9277				
DATE :	7/01/25				
BY :	JTS	SCALE :	NONE		
TITLE :	COVER PAGE				
NUMBER :	PAGE 0				
JOBSITE:	ERWIN, NC	28339			

⊕ Dia = 3/4"

⊕ Dia = 7/8"



ANCHOR BOLT PLAN
 NOTE: All Base Plates ⊕ 100'-0" (Unless Noted)

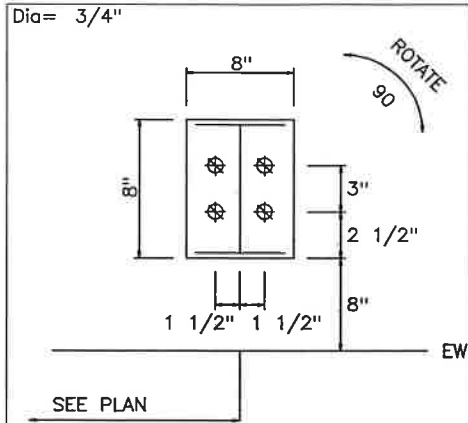
Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



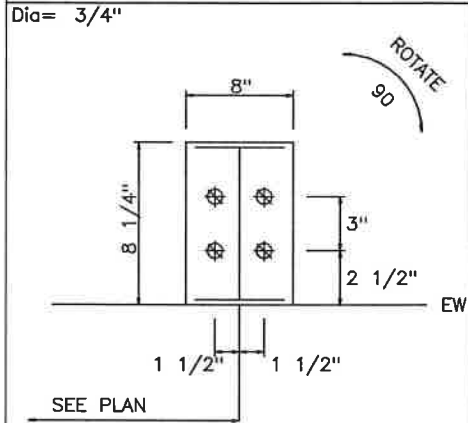
NOTE: ALL FIELD LOCATED FRAMED OPENING LOCATIONS SHALL BE AT THE DISCRETION OF THE ERECTOR/CUSTOMER. IT IS RECOMMENDED THAT THESE ANCHORS BE LOCATED AT TIME OF ERECTION.

FIELD LOCATE:
 (2) 3070 WALKDOORS

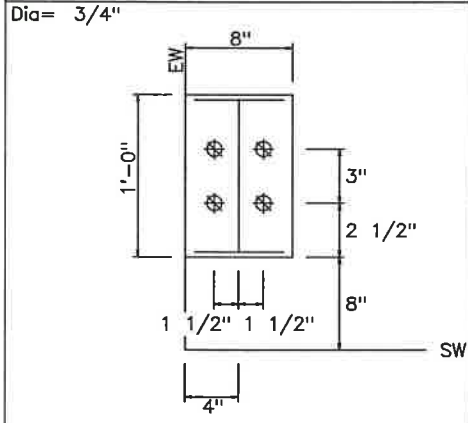
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ANCHOR BOLT LAYOUT			
DRAWING NO: PAGE 1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



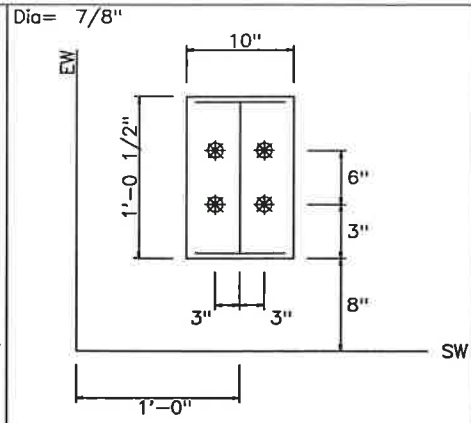
DETAIL A



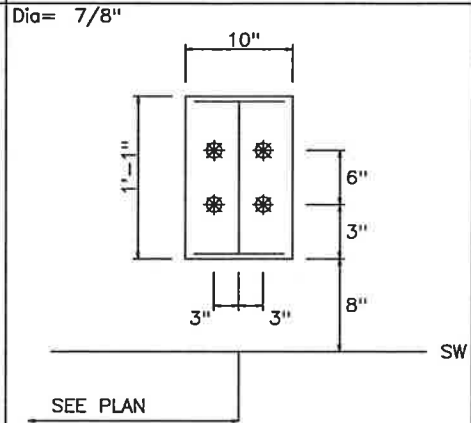
DETAIL B



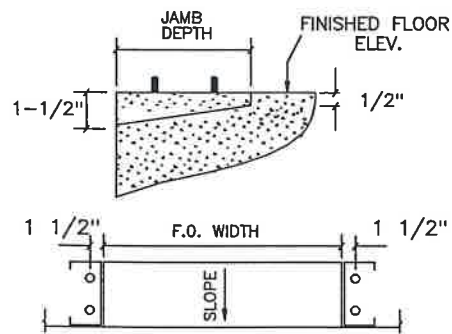
DETAIL C



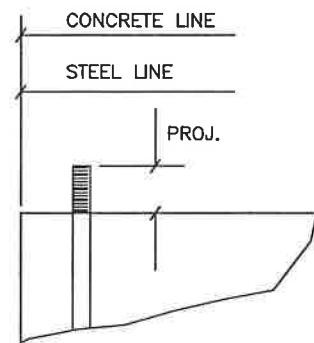
DETAIL D



DETAIL E

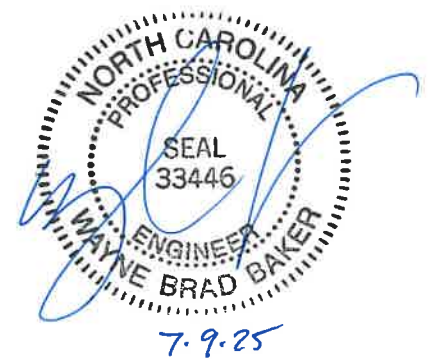


TYP. O.H. DOOR RECESS DETAIL



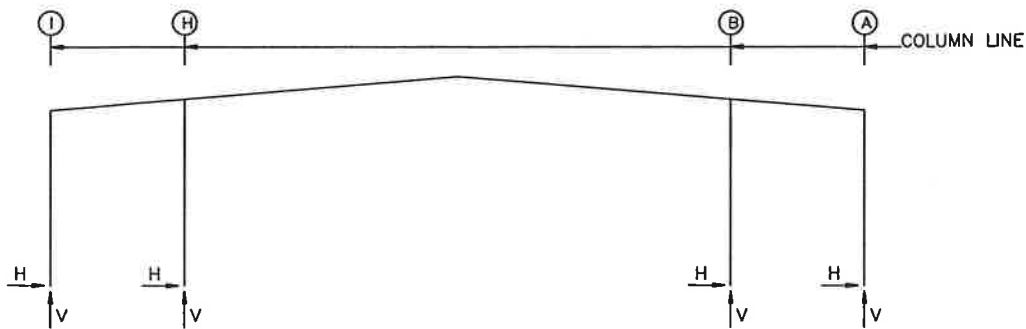
ANCHOR BOLT PROJECTION

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

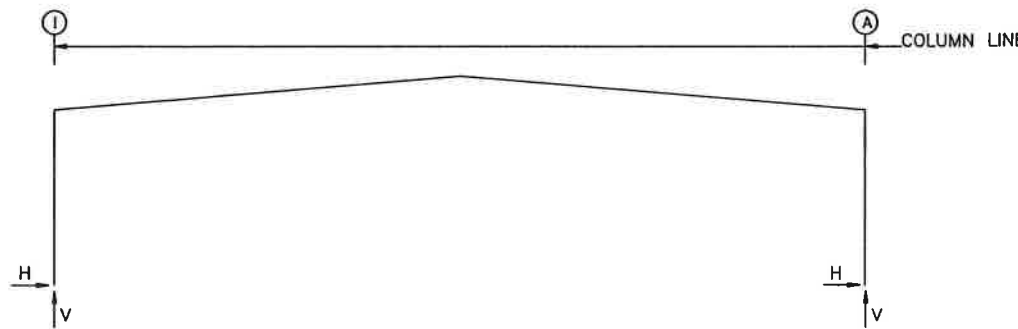


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ANCHOR BOLT DETAILS			
DRAWING NO: PAGE 1.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

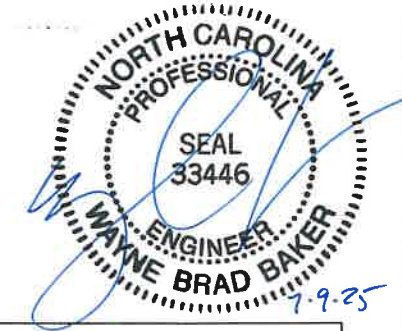
FRAME LINES: 1



FRAME LINES: 2 3 4



Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
1	I	0.0	-0.6	-0.1	-2.2	-0.1	-1.4	0.0	-0.8	-1.9	1.5	2.5	4.8
1	A	0.0	-0.6	0.1	-2.2	0.1	-1.4	0.0	-0.8	-2.5	4.8	1.9	1.5
1	H	0.0	4.3	0.0	9.3	0.0	5.7	0.0	3.3	0.0	-14.0	0.0	-13.2
1	B	0.0	4.3	0.0	9.3	0.0	5.7	0.0	3.3	0.0	-13.2	0.0	-14.0

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
1	I	-2.5	0.8	1.8	4.0	1.3	1.8	1.0	1.4	-0.3	-0.4	0.3	0.4
1	A	-1.8	4.0	2.5	0.8	-1.0	1.4	-1.3	1.8	-0.3	0.4	0.3	-0.4
1	H	0.0	-9.4	0.0	-8.6	0.0	-10.7	0.0	-7.8	0.0	0.5	0.0	-0.5
1	B	0.0	-8.6	0.0	-9.4	0.0	-7.8	0.0	-10.7	0.0	-0.5	0.0	0.5

Frame Line	Column Line	MIN_SNOW Horiz	MIN_SNOW Vert	F1PAT_LL_1 Horiz	F1PAT_LL_1 Vert	F1PAT_LL_2 Horiz	F1PAT_LL_2 Vert	F1PAT_LL_3 Horiz	F1PAT_LL_3 Vert	F1PAT_LL_4 Horiz	F1PAT_LL_4 Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert
1	I	-0.1	-1.2	-0.1	-1.4	-0.1	-2.1	0.0	0.8	-0.1	-2.2	0.0	-1.1
1	A	0.1	-1.2	0.1	-2.1	0.1	-1.4	0.0	0.8	0.1	-2.2	0.0	-1.0
1	H	0.0	4.8	0.0	5.8	0.0	5.0	0.0	0.7	0.0	5.1	0.0	4.1
1	B	0.0	4.8	0.0	5.0	0.0	5.8	0.0	0.7	0.0	5.1	0.0	4.1

Frame Line	Column Line	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
1	I	0.0	-1.0
1	A	0.0	-1.1
1	H	0.0	2.3
1	B	0.0	4.1

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2	I	3.0	4.9	5.1	6.9	9.0	11.5	5.3	6.7	-22.5	-27.6	-13.1	-19.7
2	A	-3.0	4.9	-5.1	6.9	-9.0	11.5	-5.3	6.7	13.1	-27.6	22.5	-19.7

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2	I	-16.7	-17.3	-7.3	-9.4	-11.5	-22.4	-12.2	-18.1	-0.5	-0.2	0.5	0.2
2	A	7.3	-9.4	16.7	-17.3	12.2	-18.1	11.5	-22.4	-0.5	0.2	0.5	-0.2

Frame Line	Column Line	MIN_SNOW Horiz	MIN_SNOW Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
2	I	7.5	9.6	5.0	7.1	5.0	4.3
2	A	-7.5	9.6	-5.0	4.3	-5.0	7.1

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
3	I	3.8	6.0	3.3	4.0	13.2	15.8	7.7	9.2	-27.3	-32.1	-16.6	-23.6
3	A	-3.8	6.0	-3.3	4.0	-13.2	15.8	-7.7	9.2	16.6	-32.1	27.3	-23.6

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
3	I	-18.8	-17.9	-8.1	-9.5	-17.0	-30.8	-18.1	-24.9	-0.6	-0.3	0.6	0.3
3	A	8.1	-9.5	18.8	-17.9	18.1	-24.9	17.0	-30.8	-0.7	0.3	0.7	-0.3

Frame Line	Column Line	MIN_SNOW Horiz	MIN_SNOW Vert	F3UNB_SL_L Horiz	F3UNB_SL_L Vert	F3UNB_SL_R Horiz	F3UNB_SL_R Vert
3	I	11.0	13.2	7.4	9.8	7.4	6.0
3	A	-11.0	13.2	-7.4	6.0	-7.4	9.8

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
4	I	3.8	6.0	3.3	4.0	13.2	15.8	7.7	9.2	-31.0	-36.2	-18.7	-26.1
4	A	-3.8	6.0	-3.3	4.0	-13.2	15.8	-7.7	9.2	18.7	-36.2	31.0	-26.1

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
4	I	-22.5	-22.1	-10.2	-11.9	-17.0	-30.8	-18.1	-24.9	-0.6	-0.3	0.6	0.3
4	A	10.2	-11.9	22.5	-22.1	18.1	-24.9	17.0	-30.8	-0.7	0.3	0.7	-0.3

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Projection (in)
36	Endwall	3/4"	GR36	1.50
32	Frame	7/8"	GR36	2.50

NOTE: THE FRAMING AT BOTH ENDWALLS IS NOT DESIGNED TO ACCOMMODATE FUTURE ADDITIONS. REACTIONS CORRESPONDING TO THESE FRAME LINES REFLECT LOADINGS FOR ACTUAL TRIBUTARY AREA AND ARE NOT INTENDED TO INCLUDE ANY FUTURE MODIFICATIONS UNLESS NOTED OTHERWISE.

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Base_Plate Thick (in)	Grout (in)
1	I	4	0.875	10.00	12.50	0.500	0.0
1	A	4	0.875	10.00	12.50	0.500	0.0
1	H	4	0.750	8.000	8.000	0.375	0.0
1	B	4	0.750	8.000	8.000	0.375	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Base_Plate Thick (in)	Grout (in)
2	I	4	0.875	10.00	13.00	0.625	0.0
2	A	4	0.875	10.00	13.00	0.625	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Base_Plate Thick (in)	Grout (in)
3	I	4	0.875	10.00	13.00	0.750	0.0
3	A	4	0.875	10.00	13.00	0.750	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Base_Plate Thick (in)	Grout (in)
4	I	4	0.875	10.00	13.00	0.625	0.0
4	A	4	0.875	10.00	13.00	0.625	0.0

GENERAL NOTES

- FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF METAL BUILDING MANUFACTURER.
- ALL REACTIONS ARE UNFACTORED.
- ULTIMATE WIND LOADS ARE USED TO DERIVE THE WIND REACTION.
- ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF +/- 1/8" IN BOTH ELEVATION AND LOCATION.
- COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED A BEARING PRESSURE OF 1050 POUNDS PER SQUARE INCH.

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Wind Press Horiz	Wind Suct Horiz	MIN_SNOW Horiz	MIN_SNOW Vert	E1UNB_SL_L Horiz	E1UNB_SL_L Vert	E1UNB_SL_R Horiz	E1UNB_SL_R Vert
1	H	-3.6	3.9	0.0	4.1	0.0	3.6	0.0	2.0
1	B	-3.6	3.9	0.0	4.1	0.0	2.0	0.0	3.6

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Vert	Wind_Right1 Vert	Wind_Left2 Vert	Wind_Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert
5	A	0.6	0.3	1.8	0.6	-3.1	-2.1	-2.0	-1.0	-3.5	4.0	-3.5	-2.1
5	C	1.2	0.7	4.8	1.7	-8.8	-4.9	-6.2	-2.3	-6.7	7.4	-8.7	-5.1
5	D	1.2	0.6	4.2	1.5	-8.1	-4.2	-5.8	-1.9	-7.2	8.0	-8.0	-4.2
5	E	1.2	0.7	4.4	1.6	-6.0	-6.0	-4.0	-4.0	-7.7	8.4	-5.7	-5.7
5	F	1.2	0.6	4.2	1.5	-4.2	-8.1	-1.9	-5.8	-7.2	8.0	-4.2	-8.0
5	G	1.2	0.7	4.8	1.7	-4.9	-8.8	-2.3	-6.2	-6.7	7.4	-5.1	-8.7
5	I	0.6	0.3	1.8	0.6	-2.1	-3.1	-1.0	-2.0	-3.5	4.0	-2.1	-3.5

Frm Line	Col Line	Seis Left Vert	Seis Right Vert	Seis Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	E2UNB_SL_L Horiz	E2UNB_SL_L Vert	E2UNB_SL_R Horiz	E2UNB_SL_R Vert	E2PAT_LL_1 Horiz	E2PAT_LL_1 Vert	E2PAT_LL_2 Horiz	E2PAT_LL_2 Vert
5	A	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.0	0.2	0.0	1.7	0.0	-0.2
5	C	0.0	0.0	0.0	0.0	2.4	0.0	1.5	0.0	0.6	0.0	5.1	0.0	2.0
5	D	0.0	0.0	0.0	0.0	2.1	0.0	2.6	0.0	0.2	0.0	2.1	0.0	4.9
5	E	0.0	0.0	0.0	0.0	2.2	0.0	2.1	0.0	2.1	0.0	-0.3	0.0	2.1
5	F	0.0	0.0	0.0	0.0	2.1	0.0	0.2	0.0	2.6	0.0	0.1	0.0	-0.3
5	G	0.0	0.0	0.0	0.0	2.4	0.0	0.6	0.0	1.5	0.0	0.0	0.0	0.1
5	I	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0

Frm Line	Col Line	E2PAT_LL_3 Horiz	E2PAT_LL_3 Vert	E2PAT_LL_4 Horiz	E2PAT_LL_4 Vert	E2PAT_LL_5 Horiz	E2PAT_LL_5 Vert	E2PAT_LL_6 Horiz	E2PAT_LL_6 Vert	E2PAT_LL_7 Horiz	E2PAT_LL_7 Vert
5	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	-0.2
5	C	0.0	-0.3	0.0	0.1	0.0	0.0	0.0	2.3	0.0	2.5
5	D	0.0	2.1	0.0	-0.3	0.0	0.1	0.0	2.1	0.0	2.1
5	E	0.0	4.9	0.0	2.1	0.0	-0.3	0.0	2.2	0.0	2.2
5	F	0.0	2.1	0.0	4.9	0.0	2.1	0.0	2.1	0.0	2.1
5	G	0.0	-0.3	0.0	2.0	0.0	5.1	0.0	2.5	0.0	2.3
5	I	0.0	0.0	0.0	-0.2	0.0	1.7	0.0	-0.2	0.0	2.0

NOTES FOR REACTIONS

- Building reactions are based on the following building data:
- Width (ft) = 120.0
 - Length (ft) = 75.0
 - Eave Height (ft) = 26.0/ 26.0
 - Roof Slope (Rise/12) = 1.0/ 1.0
 - Dead Load (psf) = 2.0
 - Collateral Load (psf) = 3.0
 - Roof Live Load (psf) = 20.0
 - Frame Live Load (psf) = 12.0
 - Snow Load (psf) = 7.0
 - Wind Speed (mph) = 120.0
 - Wind Code = NCBC 24 (IBC 21)
 - Exposure = C
 - Enclosed/Open/Partial = ENCLOSED
 - Importance Wind = 1.00
 - Importance Seismic = 1.00
 - Seismic Zone = C
 - Seismic Coeff (Fa*Ss) = 0.30

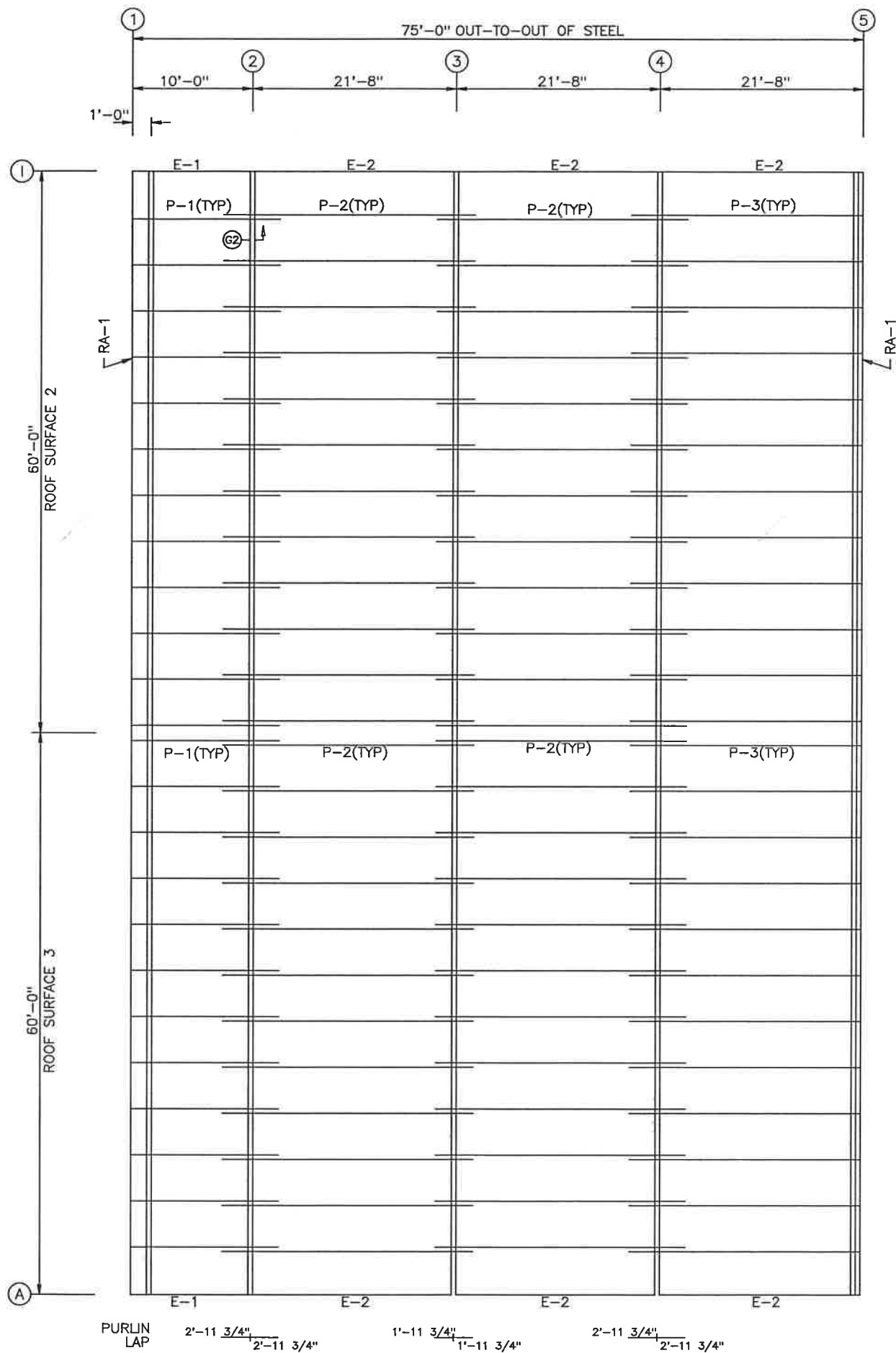
BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions (k)	Panel Shear (lb/ft)	Note		
		Wind Horiz	Seismic Vert			
L_EW	I			(h)		
F_SW	A	2.3	21.2	2.4	2.7	
R_EW	5	C,D	1.7	2.4	0.4	0.6
		F,G	1.7	2.4	0.4	0.6
B_SW	I	3.2	21.2	2.4	2.7	

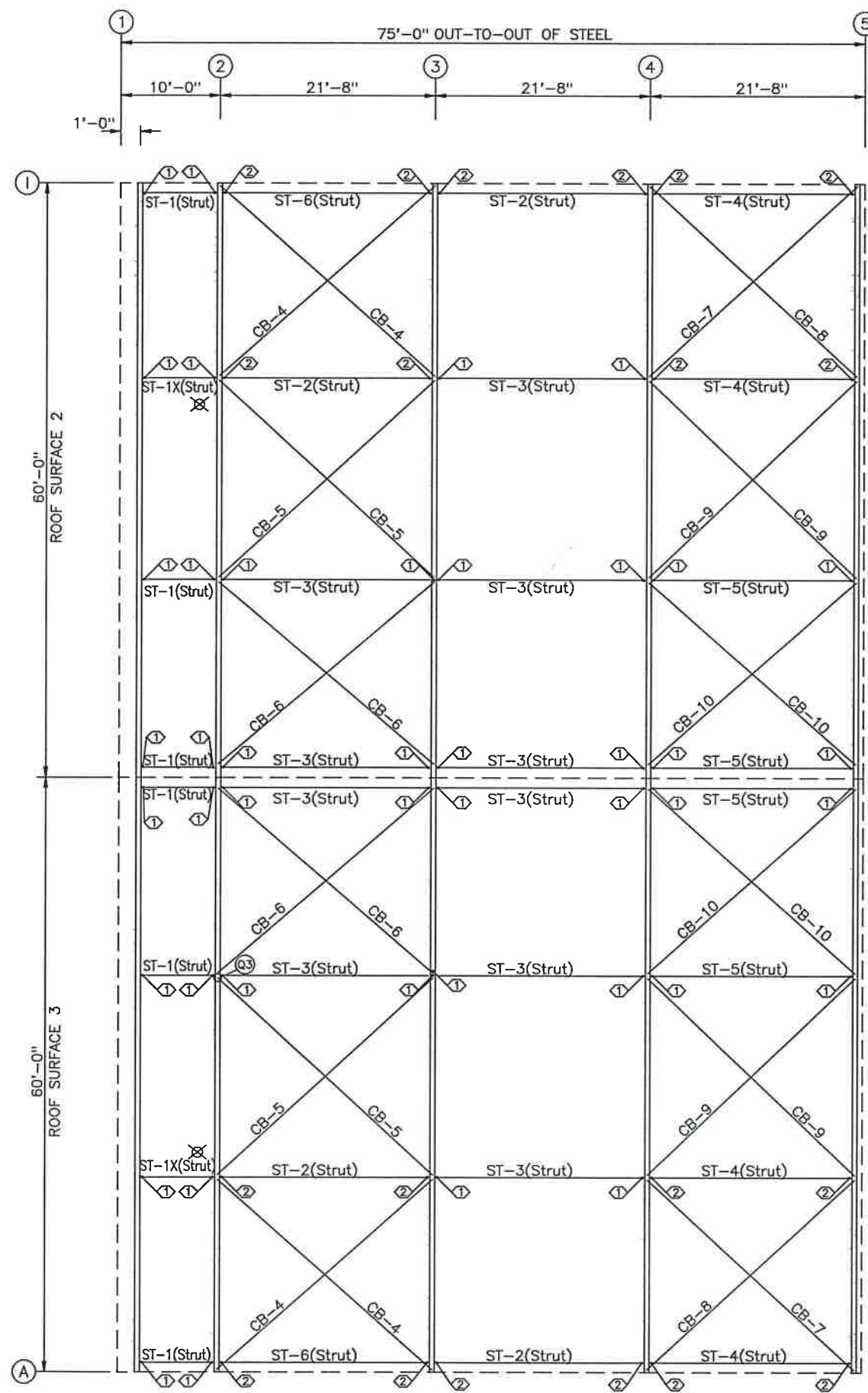
(h) Rigid frame at endwall

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Base_Plate Thick (in)	Grout (in)
5	A	4	0.750	8.000	12.00	0.375	0.0
5	C	4	0.750	8.000	8.250	0.375	0.0
5	D	4	0.750	8.000	8.250	0.375	0.0
5	E	4	0.750	8.000	8.250	0.250	0.0
5	F	4	0.750	8.000	8.250	0.375	0.0
5	G						



ROOF FRAMING PLAN



ROOF BRACING PLAN

SPECIAL BOLTS					
ROOF PLAN					
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	5/8"	2"	0
2	4	A325	5/8"	2"	0

MEMBER TABLE			
ROOF PLAN			
MARK	PART	LENGTH	
P-1	8x25Z16	12'-11	1/2"
P-2	8x25Z16	26'-7	1/2"
P-3	8x25Z14	24'-7	1/2"
E-1	8LE14@1	9'-11	1/2"
E-2	8LE14@1	21'-7	1/2"
ST-1	8X7DC14	8'-11"	
ST-1X	8X7DC14	8'-11"	
ST-2	8X7DC14	21'-7"	
ST-3	8X7DC14	21'-7"	
ST-4	8X7DC14	21'-3"	
ST-5	8X7DC14	21'-3"	
ST-6	8X7DC12	20'-5	1/2"
CB-4	0.75_ROD	28'-7"	
CB-5	0.75_ROD	29'-9"	
CB-6	0.50_ROD	28'-8"	
CB-7	0.75_ROD	28'-0"	
CB-8	0.75_ROD	28'-3"	
CB-9	0.75_ROD	29'-6"	
CB-10	0.50_ROD	28'-5"	



Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



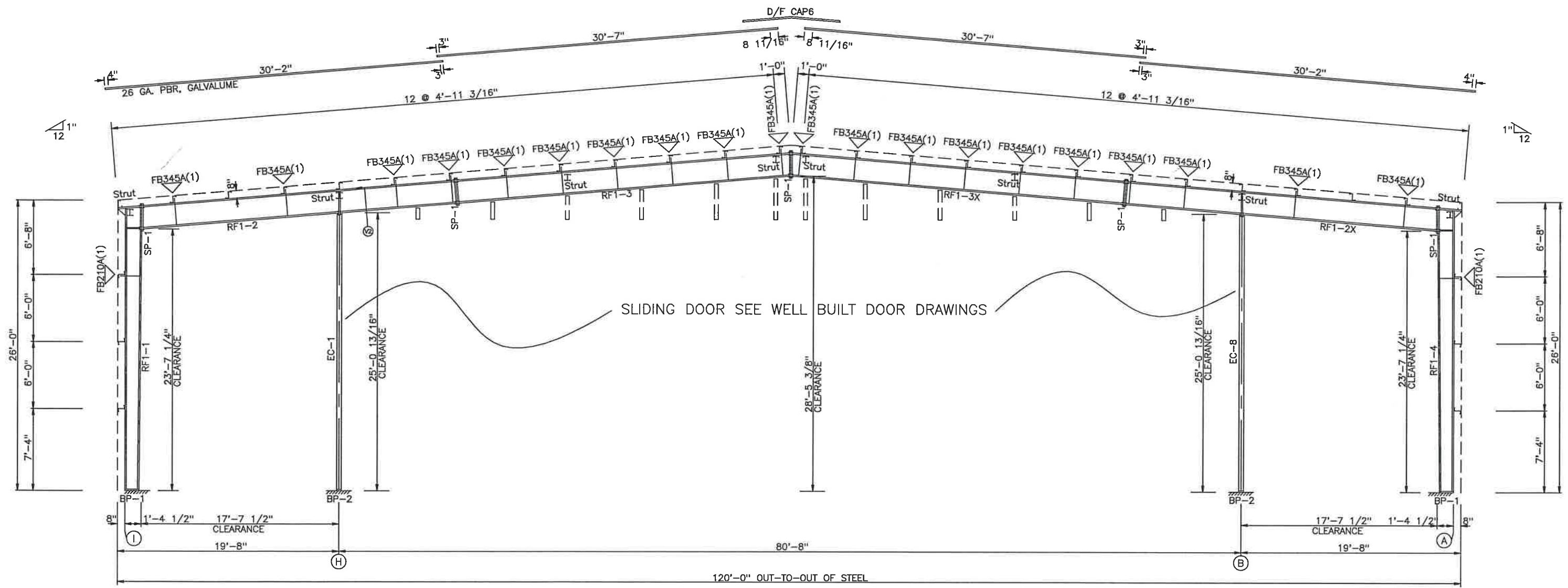
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ROOF FRAMING LAYOUT			
DRAWING NO: PAGE 2	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

SPLICE BOLT TABLE						CAP PLATE BOLTS						
MARK	Qty	Top	Bot	Int	TYPE	DIA	Length	MARK	Qty	TYPE	DIA	Length
SP-1	4	4	0	A325	5/8"	2"		EC-1	4	A325T	5/8"	2"
								EC-8	4	A325T	5/8"	2"

BASE PLATE TABLE			
COL MARK	Width	THICK	Length
BP-1	10"	1/2"	1'-0 1/2"
BP-2	8"	3/8"	8"

MEMBER TABLE									
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length			
RF1-1	497	12.0/13.8	0.135	10'-6 1/4"	6 x 1/4" x 20'-0"	6 x 1/4" x 20'-0"			
		13.8/16.0	0.135	14'-11"	6 x 1/4" x 5'-3 7/8"	6 x 1/4" x 3'-3 3/16"			
RF1-2	915	22.0/22.0	0.188	14'-11"	6 x 1/4" x 2'-0 5/16"	6 x 1/2" x 18'-1 3/4"			
		22.0/22.0	0.188	13'-3"	6 x 1/4" x 20'-0"	6 x 5/8" x 10'-0 3/16"			
RF1-3	682	22.0/22.0	0.135	14'-11"	6 x 1/4" x 8'-0 1/8"	6 x 1/4" x 20'-0"			
		22.0/22.0	0.135	13'-1"	6 x 1/4" x 10'-0"	6 x 1/4" x 9'-10 1/8"			
RF1-4	497	22.0/22.0	0.135	2'-0"					
		16.0/13.8	0.135	14'-11"	6 x 1/4" x 2'-0 5/16"	6 x 1/4" x 3'-3 3/16"			
		13.8/12.0	0.135	10'-6 1/4"	6 x 1/4" x 5'-3 7/8"	6 x 1/4" x 20'-0"			
EC-1	620	WBX24							
EC-8	620	WBX24							

▽ FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1): xx=length(in)
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 1

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



NOTE: THE FRAMING AS DEPICTED ABOVE IS NOT DESIGNED TO ACCOMMODATE ANY FUTURE EXPANSION.

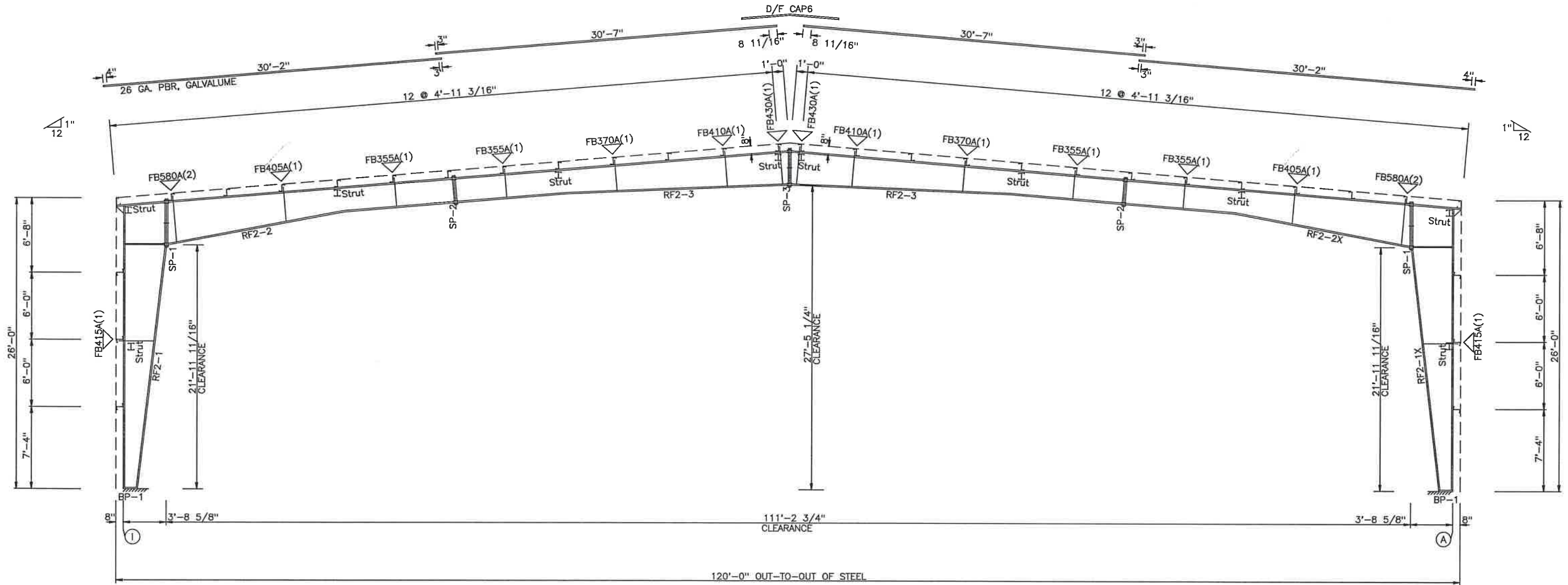
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

SPURCE BOLT TABLE						
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length
SP-1	4	4	2	A325	7/8"	3"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	Width	THICK	Length
BP-1	10"	5/8"	1'-1"

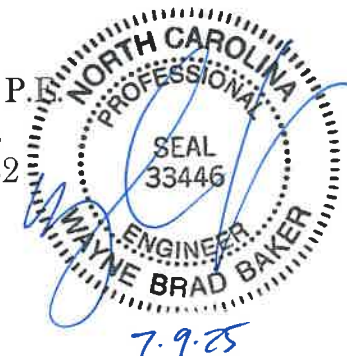
MEMBER TABLE						
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	1307	12.0/21.9	0.250	6'-7 13/16"	8 x 5/16" x 20'-0"	8 x 5/16" x 19'-8 3/4"
		21.9/44.0	0.250	14'-11"	8 x 5/16" x 5'-3 11/16"	8 x 5/16" x 2'-0"
		44.0/44.0	0.313	4'-0 9/16"	8 x 5/16" x 4'-4 7/16"	
RF2-2	1146	44.0/26.5	0.250	13'-10 9/16"	8 x 5/16" x 16'-0 7/8"	8 x 5/16" x 15'-11 5/8"
		26.5/24.0	0.250	2'-0"	8 x 1/4" x 9'-6"	8 x 1/4" x 10'-0"
		24.0/24.0	0.188	10'-0"		
RF2-3	919	24.0/24.0	0.188	10'-0 3/8"	6 x 1/4" x 20'-0"	6 x 1/4" x 10'-0 5/16"
		24.0/31.5	0.188	14'-11"	6 x 1/4" x 10'-0 3/8"	6 x 1/4" x 19'-9 3/8"
		31.5/34.0	0.188	5'-1"		

FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1): xx=length(in)
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 2

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



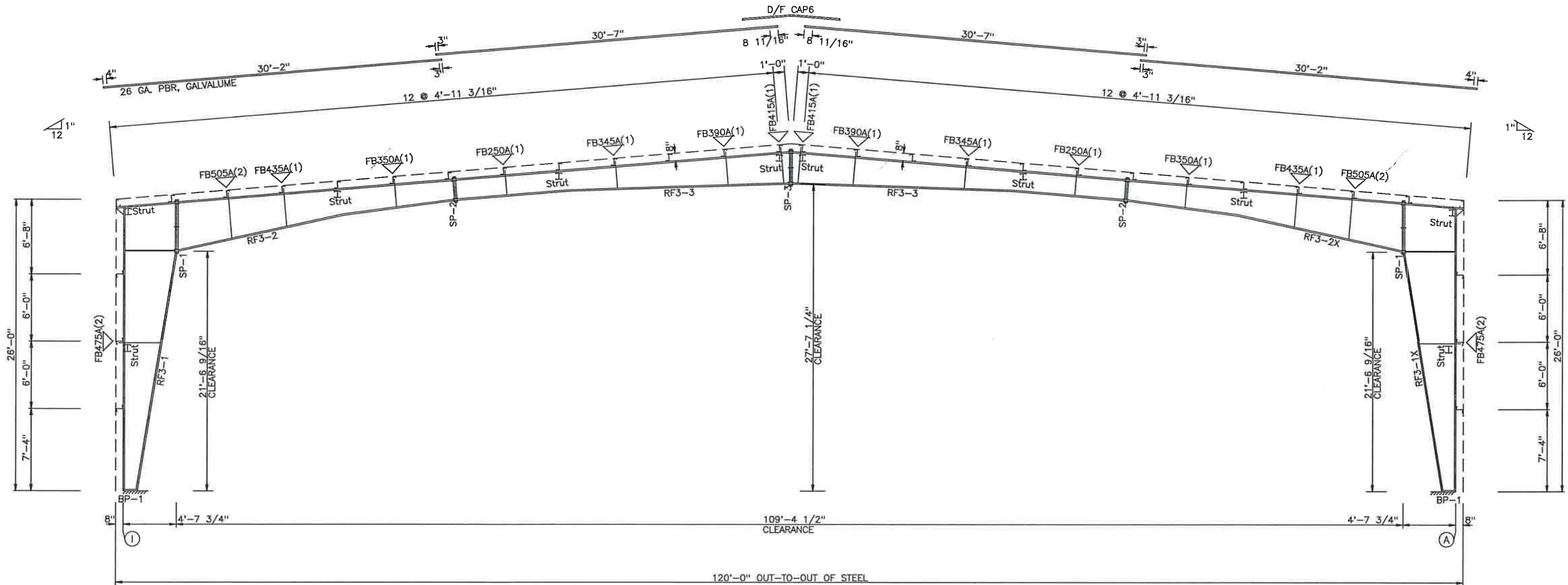
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.2	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

SPUCE BOLT TABLE						
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length
SP-1	4	4	2	A325	7/8"	2 1/2"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	PLATE SIZE Width	THICK	Length
BP-1	10"	3/4"	1'-1"

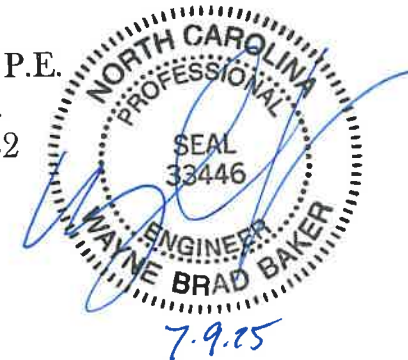
MEMBER TABLE						
MARK	Weight	Web Depth		Web PLATE		Outside Flange W x Thk x Length
		Start/End	THICK	Length	Length	
RF3-1	1715	12.0/33.9	0.313	10'-9 3/16"	8 x 3/8" x 20'-0"	8 x 3/8" x 19'-5 3/16"
		33.9/55.0	0.313	14'-11"	8 x 3/8" x 5'-3 9/16"	8 x 3/8" x 2'-0"
RF3-2	1170	50.0/29.2	0.250	13'-0 1/16"	8 x 5/16" x 5'-3 9/16"	8 x 5/16" x 15'-1 11/16"
		29.2/26.0	0.250	2'-0"	8 x 5/16" x 15'-1 7/8"	8 x 5/16" x 10'-0 1/8"
		26.0/20.0	0.188	10'-0"	8 x 1/4" x 9'-6"	
RF3-3	851	20.0/20.0	0.188	10'-0 1/4"	6 x 1/4" x 20'-0"	6 x 1/4" x 10'-0 3/16"
		20.0/29.1	0.188	14'-11"	6 x 1/4" x 10'-0 1/4"	6 x 1/4" x 19'-9 5/8"
		29.1/32.0	0.188	5'-1"		

FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1): xx=length(in)
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 3

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



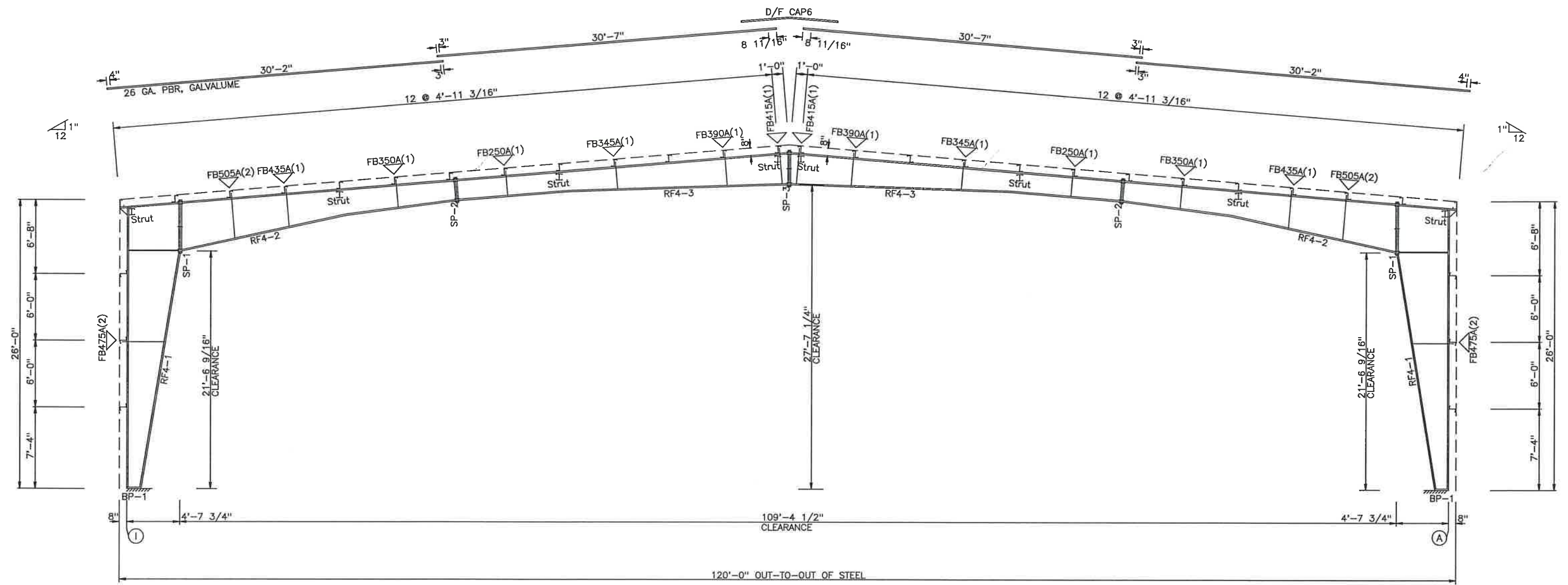
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.3	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

SPLICE BOLT TABLE						
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length
SP-1	4	4	2	A325	7/8"	2 1/2"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	PLATE SIZE Width	THICK	Length
BP-1	10"	5/8"	1'-1"

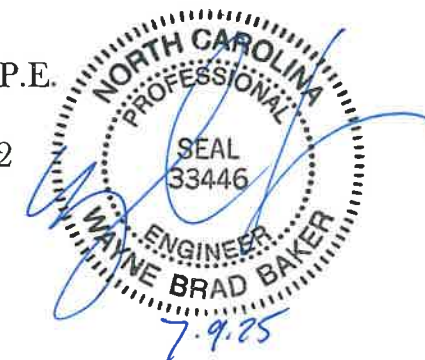
MEMBER TABLE						
MARK	Weight	Web Depth		Web PLATE		Outside Flange W x Thk x Length
		Start/End	THICK	Length	Length	
RF4-1	1678	12.0/33.9	0.313	10'-9 5/16"	14'-11"	8 x 3/8" x 20'-0"
		33.9/55.0	0.313	14'-11"		8 x 3/8" x 5'-3 11/16"
RF4-2	1163	50.0/29.2	0.250	13'-0 1/16"		8 x 5/16" x 5'-3 9/16"
		29.2/26.0	0.250	2'-0"		8 x 5/16" x 15'-1 7/8"
		26.0/20.0	0.188	10'-0"		8 x 1/4" x 9'-6"
RF4-3	851	20.0/20.0	0.188	10'-0 1/4"		6 x 1/4" x 20'-0"
		20.0/29.1	0.188	14'-11"		6 x 1/4" x 10'-0 1/4"
		29.1/32.0	0.188	5'-1"		6 x 1/4" x 19'-9 5/8"

▽ FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1): xx=length(in)
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 4

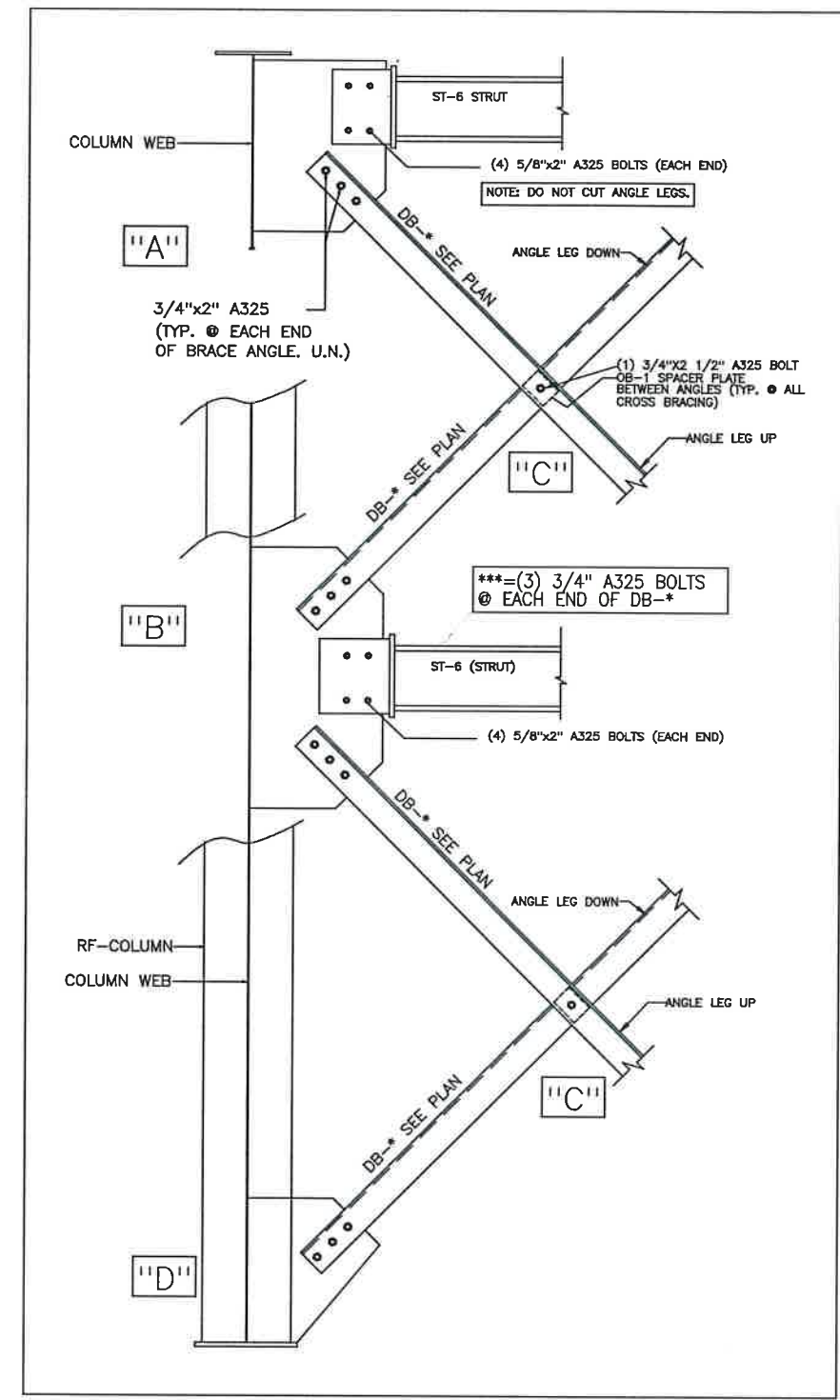
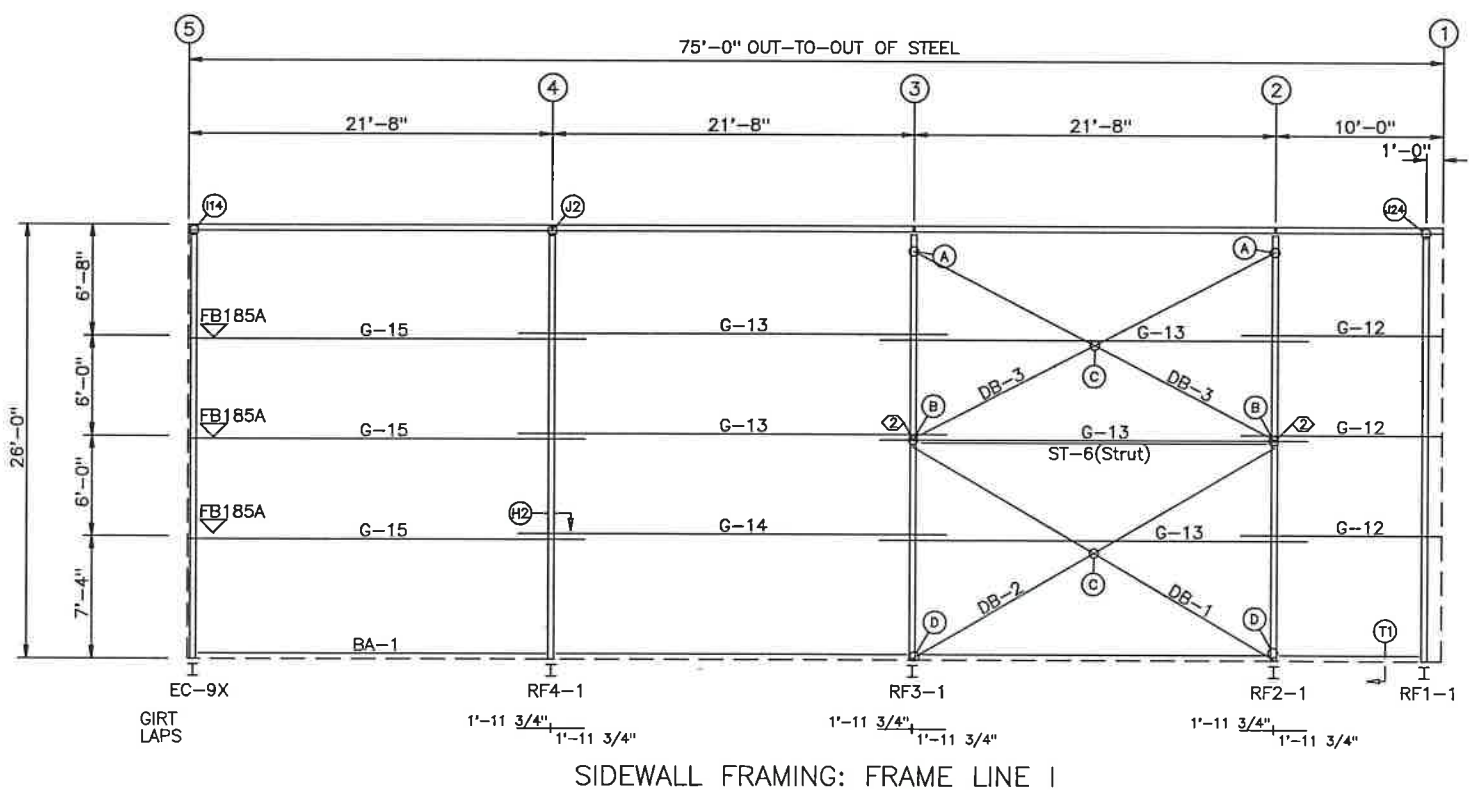
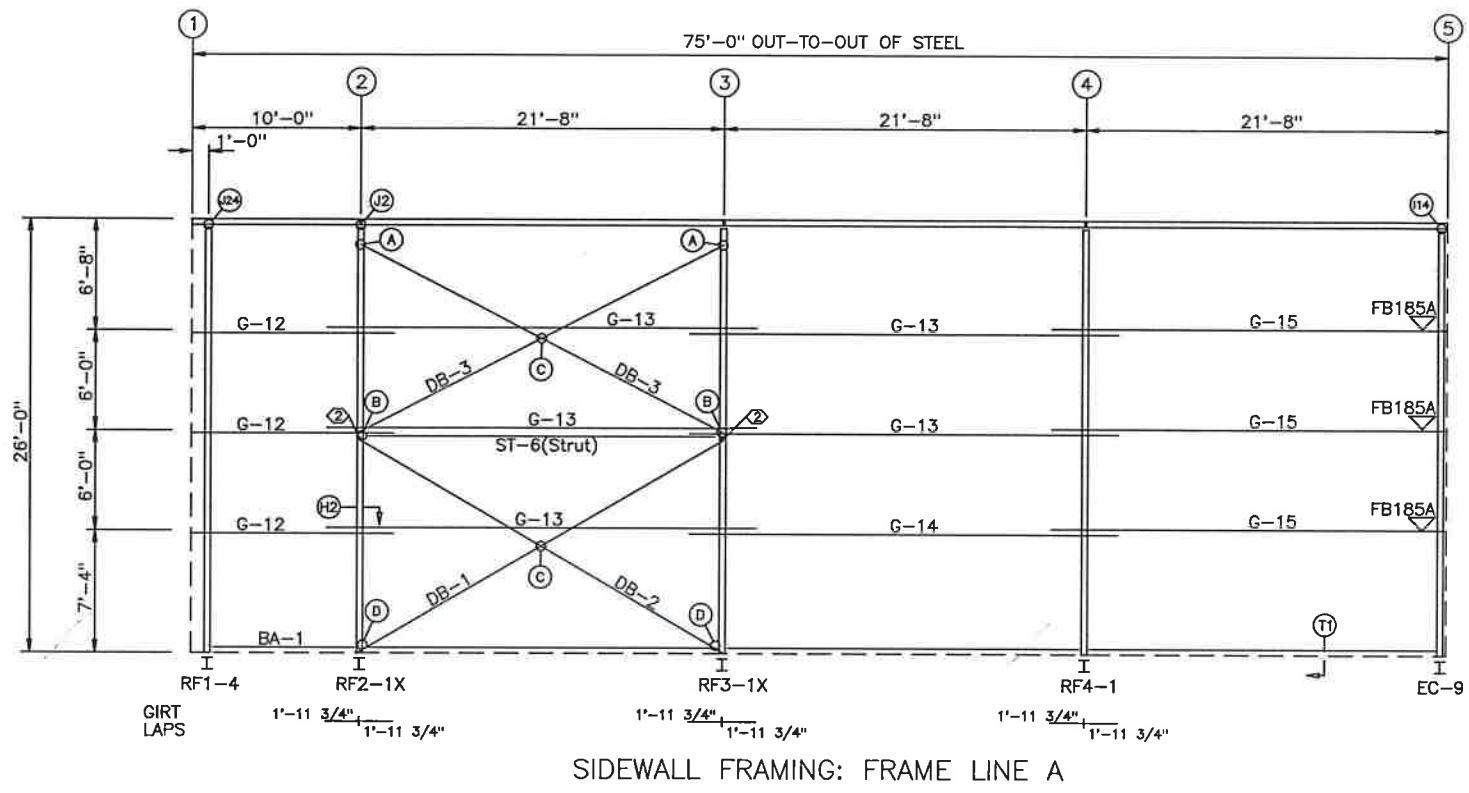
Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



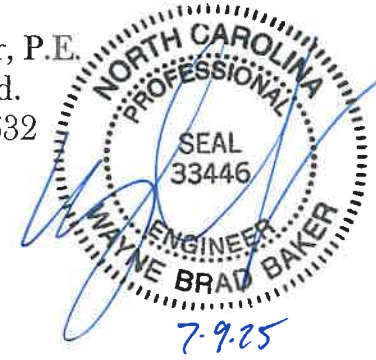
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.4	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

SPECIAL BOLTS				
Q ID	QUAN	TYPE	DIA	LENGTH WASH
2	4	A325	5/8"	2" 0

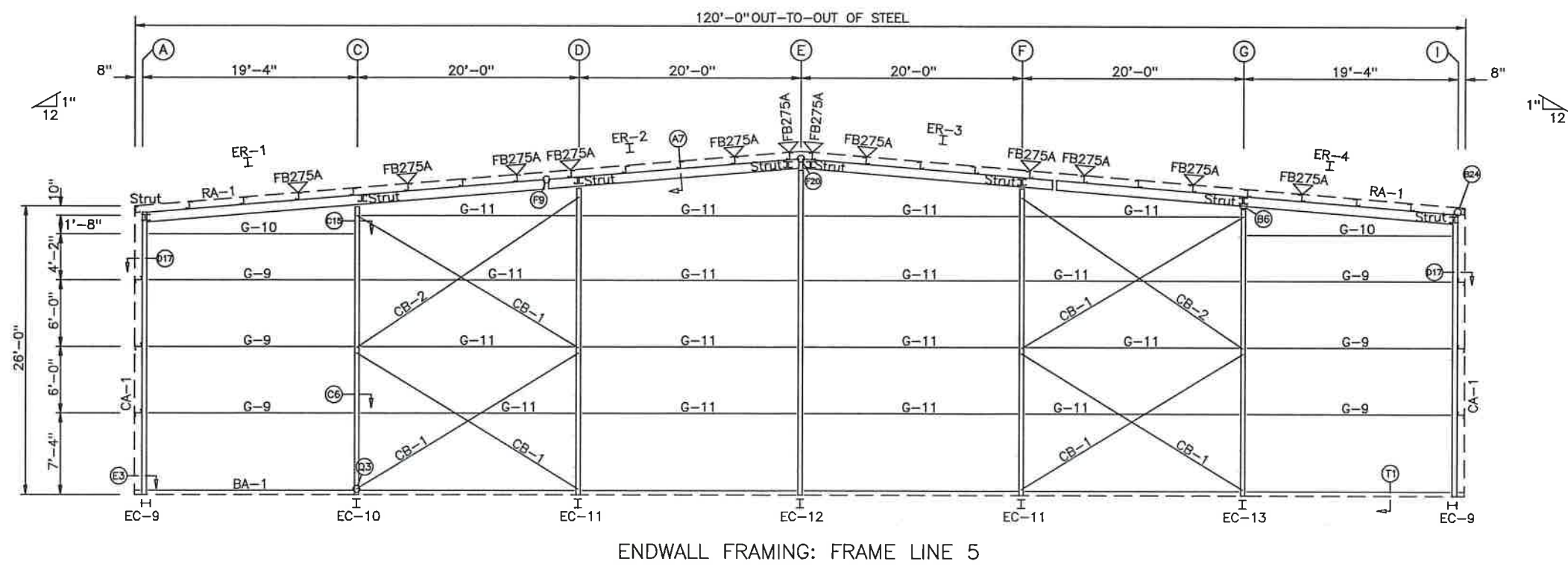
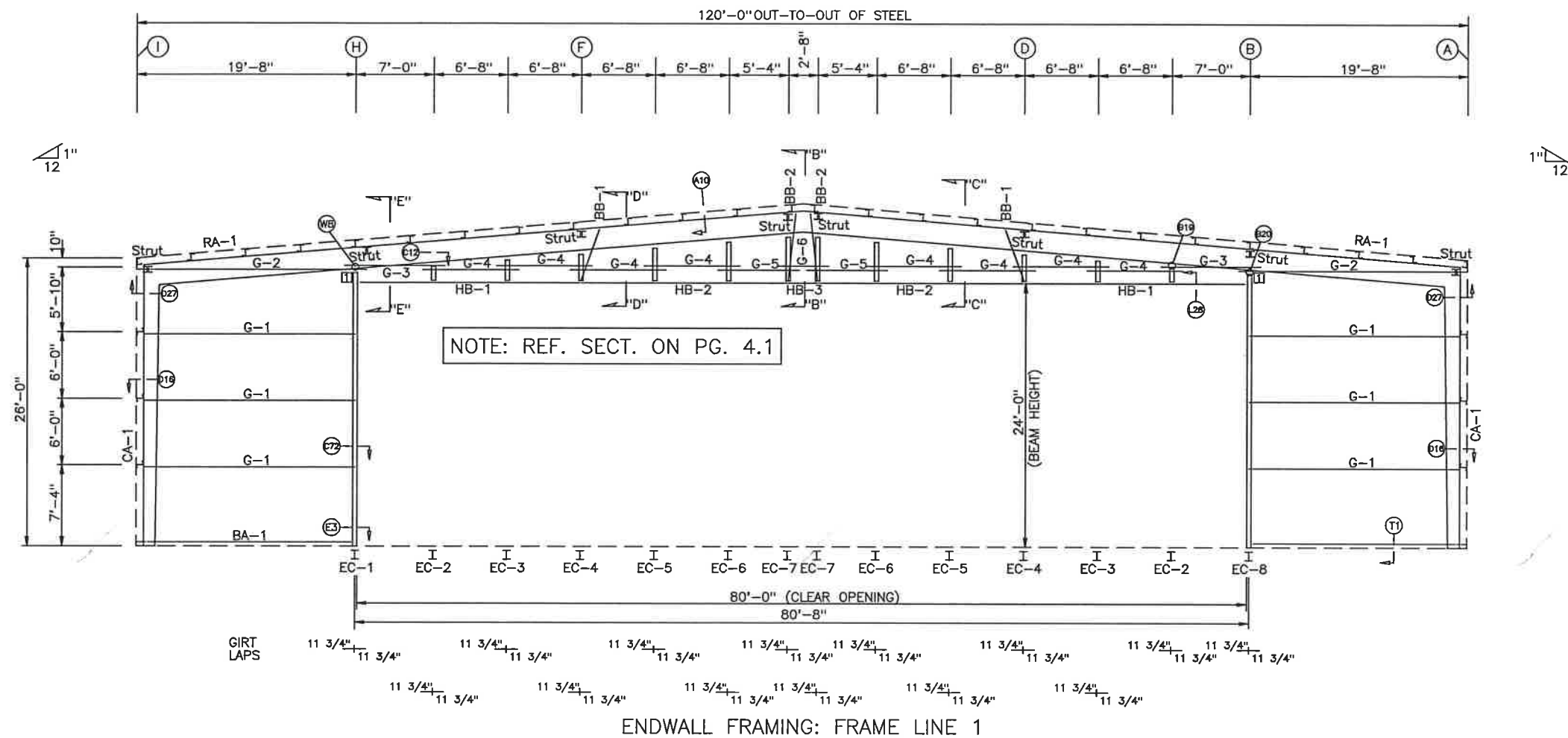
MEMBER TABLE FRAME LINE A & I		
MARK	PART	LENGTH
ST-6	8X7DC12	20'-5 1/2"
G-12	8x25Z16	11'-11 1/2"
G-13	8x25Z16	25'-7 1/2"
G-14	8x25Z14	25'-7 1/2"
G-15	8x25Z14	23'-7 1/2"
DB-1	L3X3X188	24'-0 1/2"
DB-2	L3X3X188	24'-0 5/16"
DB-3	L3X3X188	23'-6 1/2"



Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL FRAMING LAYOUT			
DRAWING NO: PAGE 3	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



BOLT TABLE				
FRAME LINE 1 & 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	4	A325	5/8"	2"
ER-1/ER-2	8	A325	5/8"	2"
ER-2/ER-3	8	A325	5/8"	2"
ER-3/ER-4	8	A325	5/8"	2"
EC-1/FRAME	4	A325	5/8"	2"
EC-2/FRAME	2	A325	5/8"	2"
EC-3/FRAME	2	A325	5/8"	2"
EC-4/FRAME	2	A325	5/8"	2"
EC-5/FRAME	2	A325	5/8"	2"
EC-6/FRAME	2	A325	5/8"	2"
EC-7/FRAME	2	A325	5/8"	2"
EC-8/FRAME	4	A325	5/8"	2"
EC-10/ER-1	4	A325	5/8"	2"
EC-11/ER-2	2	A325	5/8"	2"
EC-12/ER-3	2	A325	5/8"	2"
EC-11/ER-3	2	A325	5/8"	2"
EC-13/ER-4	2	A325	5/8"	2"

MEMBER TABLE		
FRAME LINE 1 & 5		
MARK	PART	LENGTH
HB-1	C8x11.5	20'-7 1/2"
HB-2	C8x11.5	18'-7 1/2"
HB-3	C8x11.5	2'-7 1/2"
BB-1	T5x188	21'-4 11/16"
BB-2	T5x188	21'-7"
EC-1	WBX24	25'-1 1/16"
EC-2	WBX10	1'-5 11/16"
EC-3	WBX10	2'-0 3/4"
EC-4	WBX10	2'-7 3/8"
EC-5	WBX10	3'-2 1/16"
EC-6	WBX10	3'-8 3/4"
EC-7	WBX10	4'-2 1/16"
EC-8	WBX24	25'-1 1/16"
EC-9	W12X14	25'-5 5/8"
EC-10	WBX18	26'-0 1/16"
EC-11	WBX18	27'-8 1/16"
EC-12	WBX18	29'-0 15/16"
EC-13	WBX18	26'-0 1/16"
ER-1	W10X12	35'-7 3/16"
ER-2	W10X12	23'-0 3/16"
ER-3	W10X12	23'-0 3/16"
ER-4	W10X12	35'-7 3/16"
G-1	8x25Z12	19'-3 1/2"
G-2	8x25Z16	19'-7 1/2"
G-3	8x25Z16	9'-3 1/2"
G-4	8x25Z16	8'-7 1/2"
G-5	8x25Z16	7'-3 1/2"
G-6	8x25Z16	4'-7 1/2"
G-9	8x25Z12	17'-11 1/2"
G-10	8x25Z14	17'-11 1/2"
G-11	8x25Z12	19'-3 1/4"
CB-1	0.50_ROD	24'-0"
CB-2	0.50_ROD	24'-11"

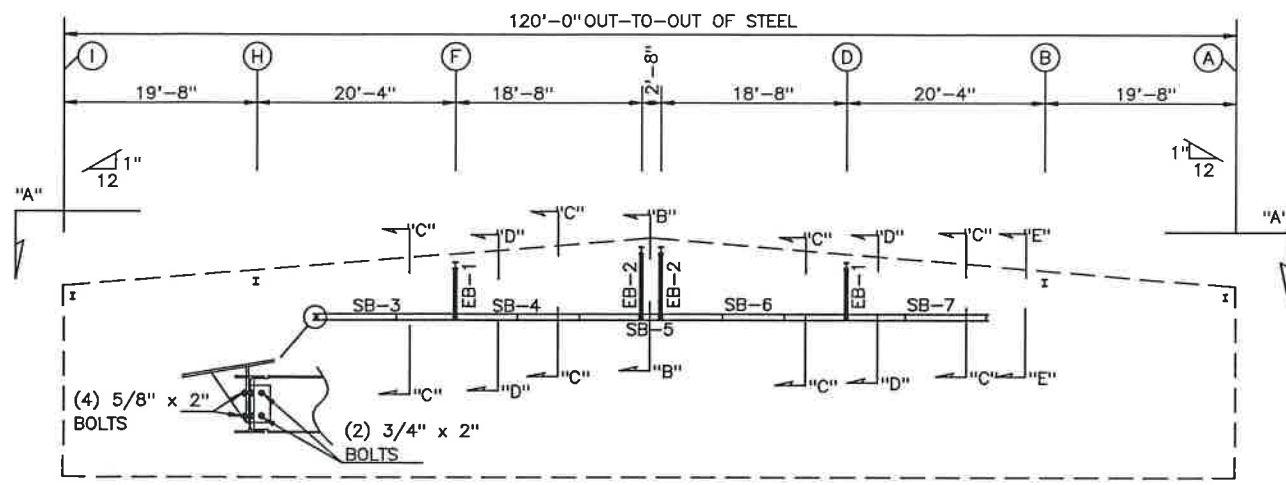
CONNECTION PLATES	
FRAME LINE 1 & 5	
ID	MARK/PART
1	SGC1

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632

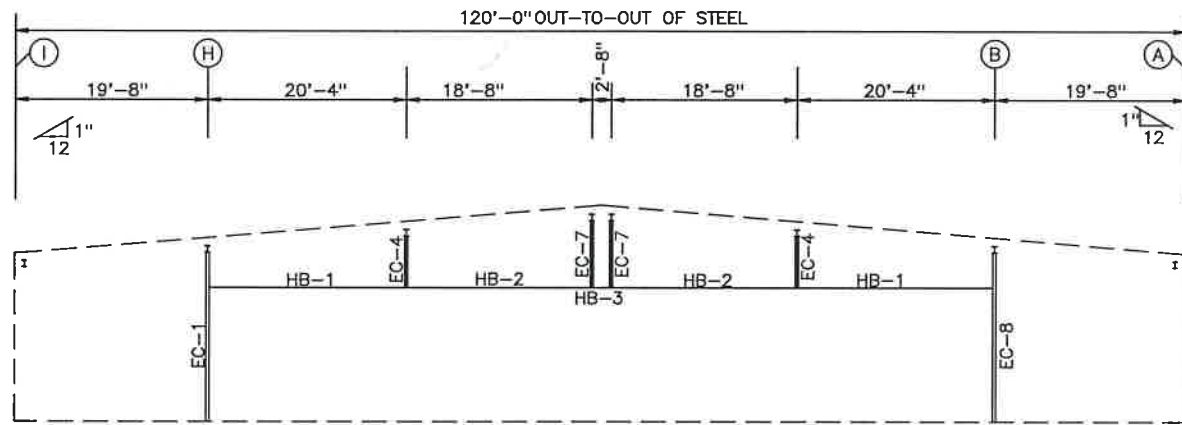


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL FRAMING LAYOUT			
DRAWING NO: PAGE 4	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

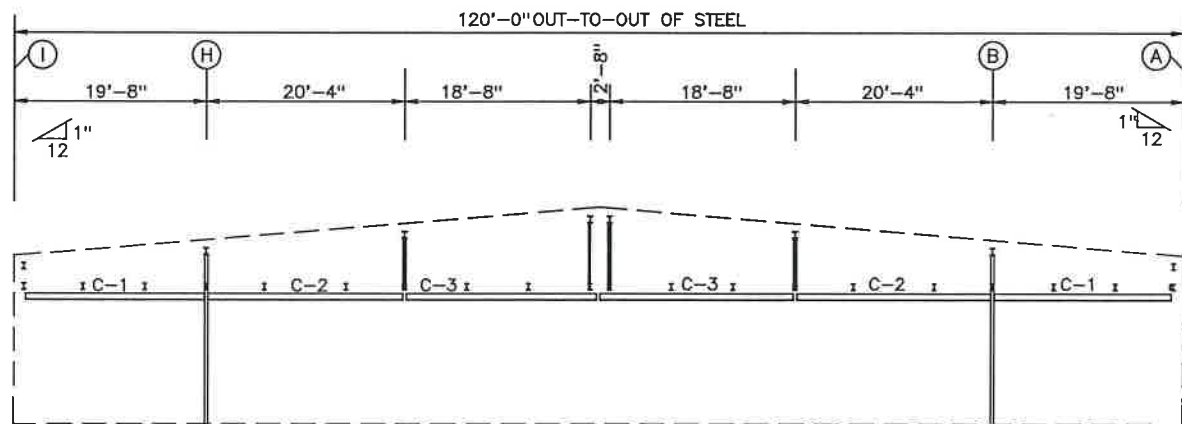
NOTE: THE FRAMING AS DEPICTED ABOVE IS NOT DESIGNED TO ACCOMMODATE ANY FUTURE EXPANSION.



HANGAR DOOR FRAMING: FRAME LINE 2

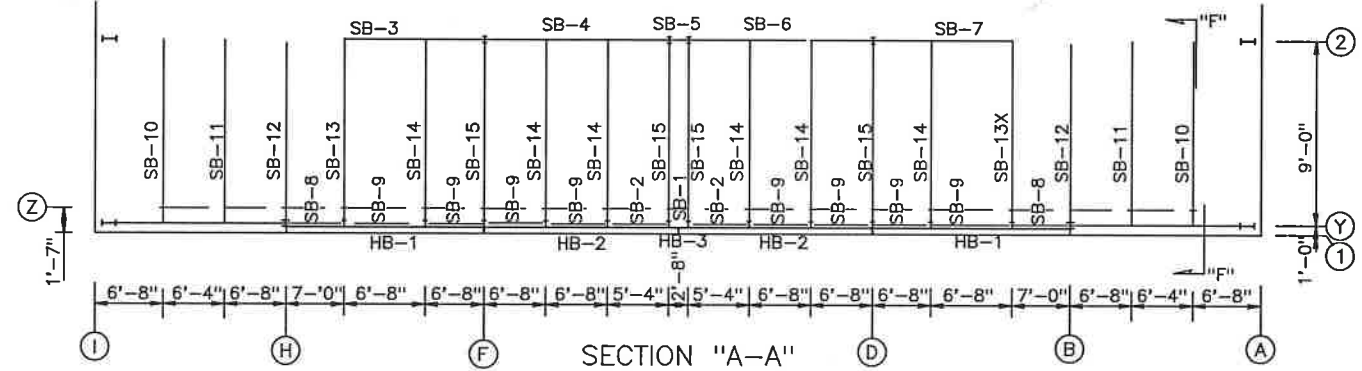


SOFFIT FRAMING: FRAME LINE 1



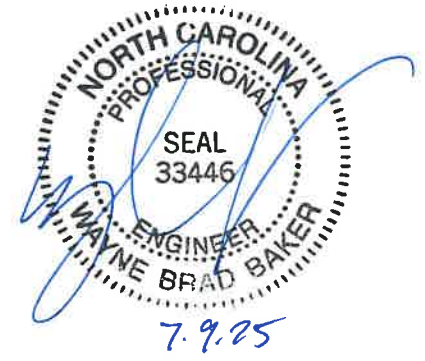
SOFFIT FRAMING: FRAME LINE Z

MEMBER TABLE		
FRAME LINE 1.1		
MARK	PART	LENGTH
SB-1	W8X10	2'-6 13/16"
SB-2	W8X10	5'-2 13/16"
SB-3	W8X10	13'-2 13/16"
SB-4	W8X10	18'-6 13/16"
SB-5	W8X10	2'-6 13/16"
SB-6	W8X10	18'-6 13/16"
SB-7	W8X10	13'-2 13/16"
SB-8	W8X10	6'-10 13/16"
SB-9	W8X10	6'-6 13/16"
SB-10	W8X10	8'-11"
SB-11	W8X10	8'-11"
SB-12	W8X10	8'-3 1/16"
SB-13	W8X10	8'-11 1/8"
SB-13X	W8X10	8'-11 1/8"
SB-14	W8X10	8'-7 3/8"
SB-15	W8X10	8'-3 1/8"
EB-1	W8X10	1'-11 7/16"
EB-2	W8X10	2'-8 11/16"
C-1	6x25C16	13'-3 1/2"
C-2	6x25C16	20'-3 1/2"
C-3	6x25C16	19'-11 1/2"

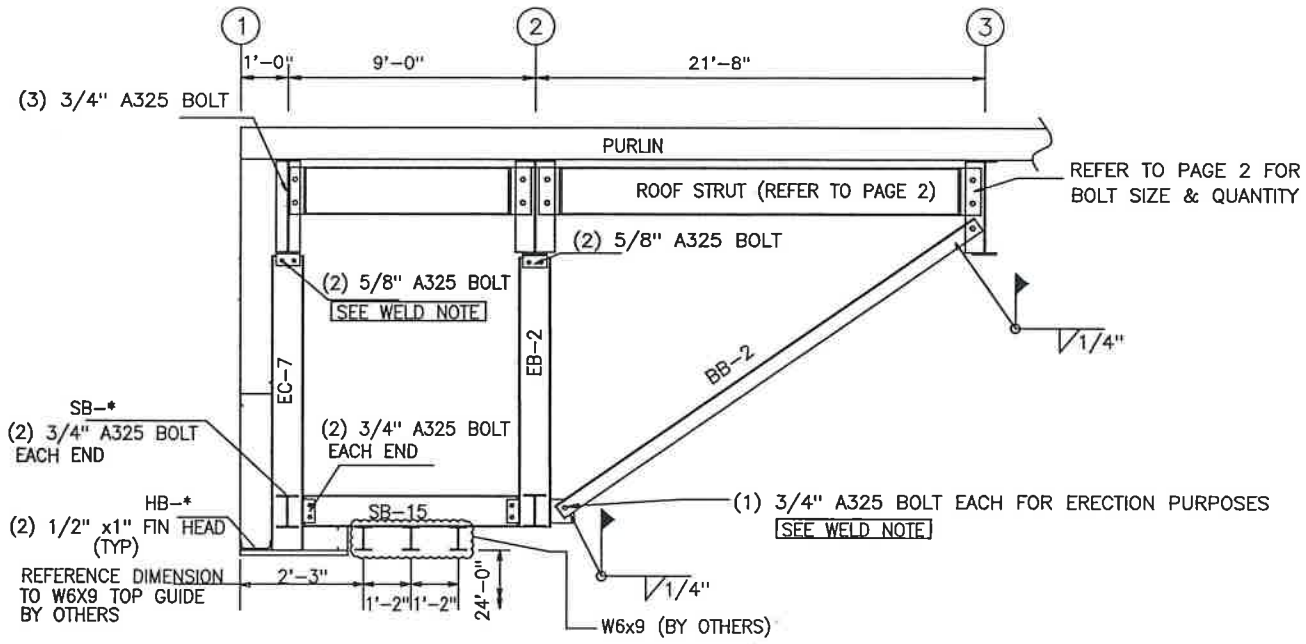


NOTE: REF SECT. DWGS @ PAGE 4.2

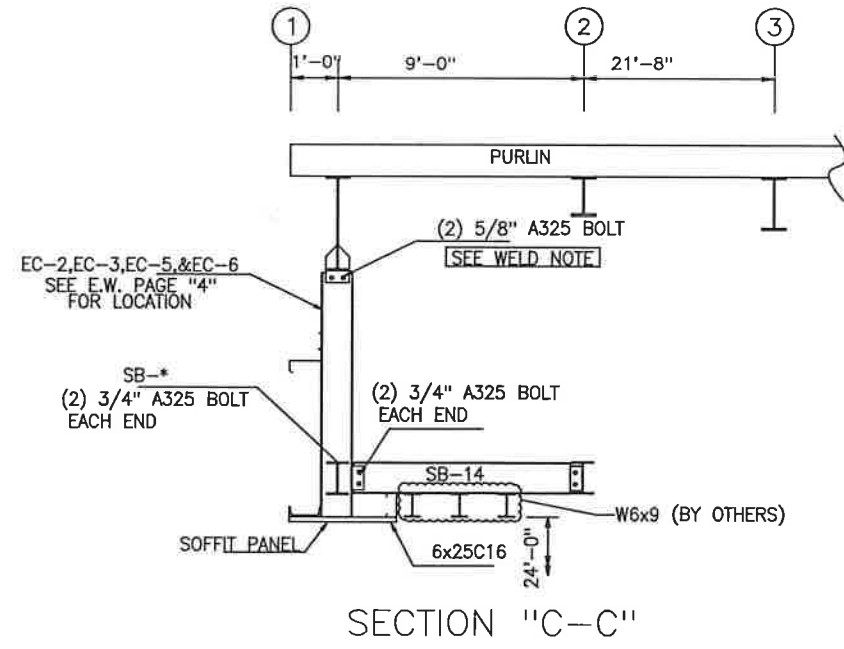
Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



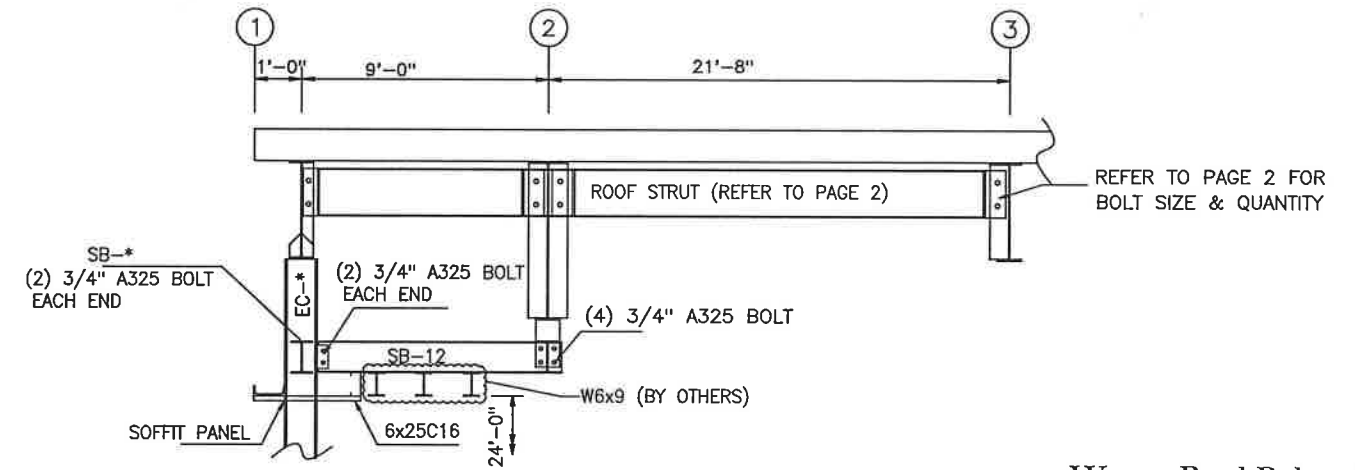
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: HANGAR DOOR FRAMING			
DRAWING NO: PAGE 4.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



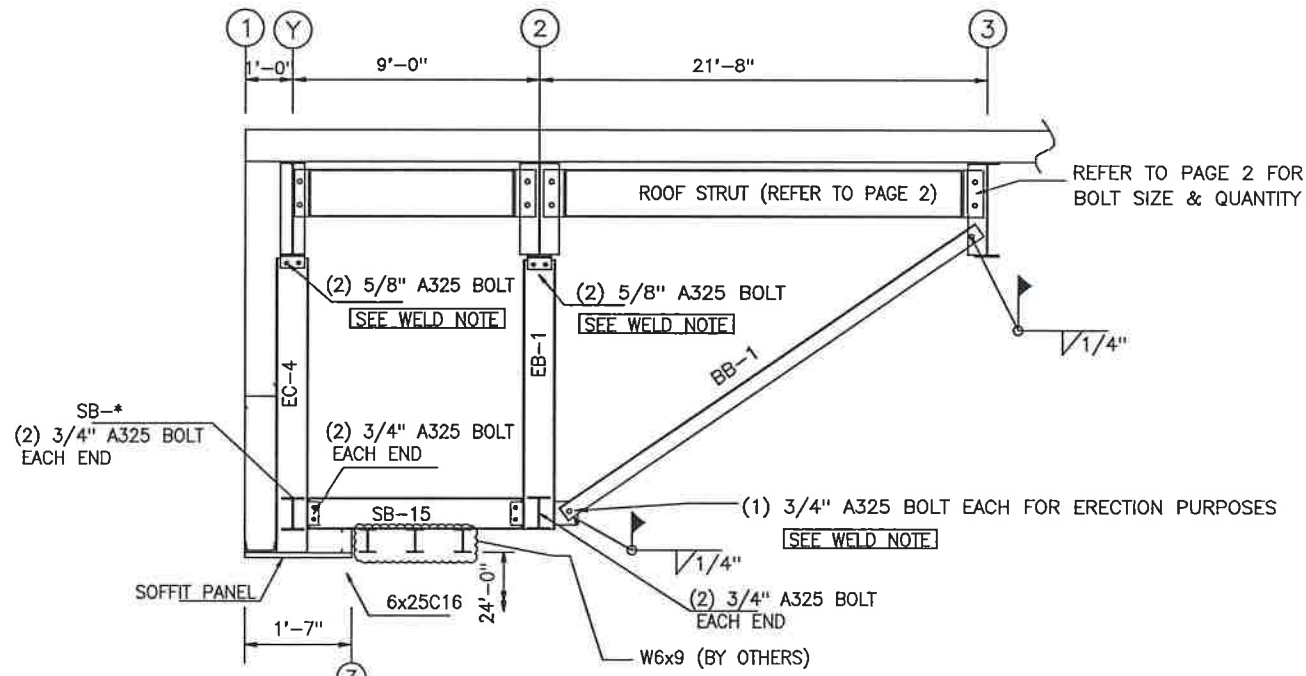
SECTION "B-B" @ PEAK



SECTION "C-C"



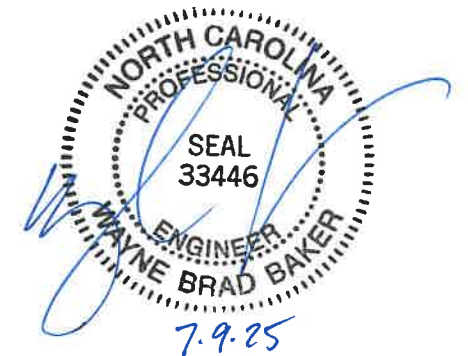
SECTION "E-E" @ LINES "B" & "H"



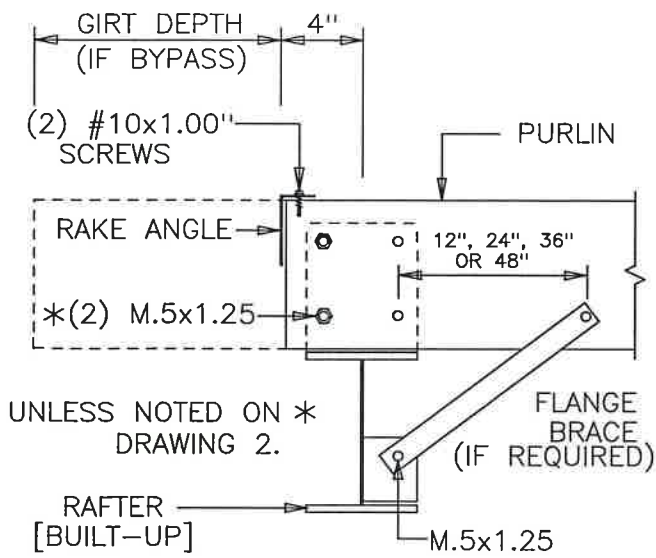
SECTION "D-D" @ LINES "D" & "F"

WELD NOTE:
FIELD WELD ONCE ALL DEAD LOAD IS APPLIED

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

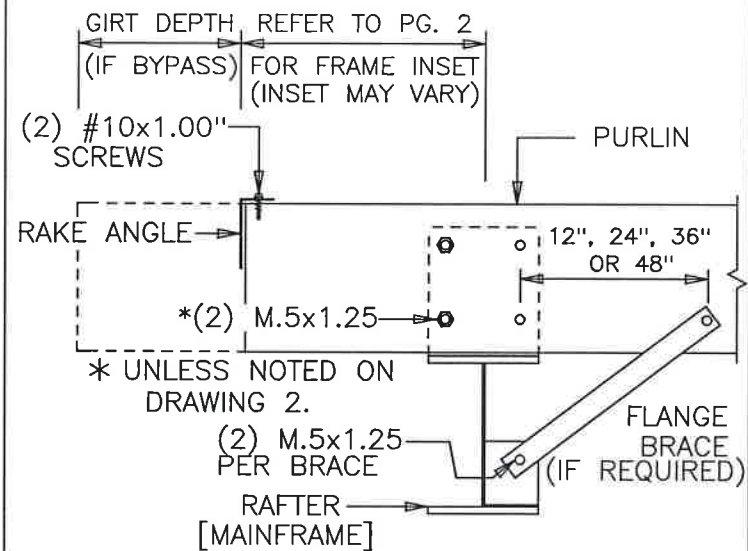


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: HANGER DOOR DETAILS			
DRAWING NO: PAGE 4.2	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



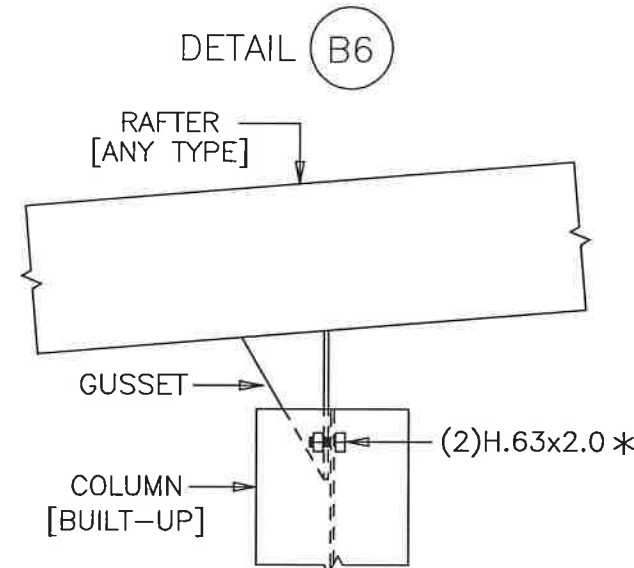
DETAIL (A7)

PURLIN TO ENDWALL RAFTER



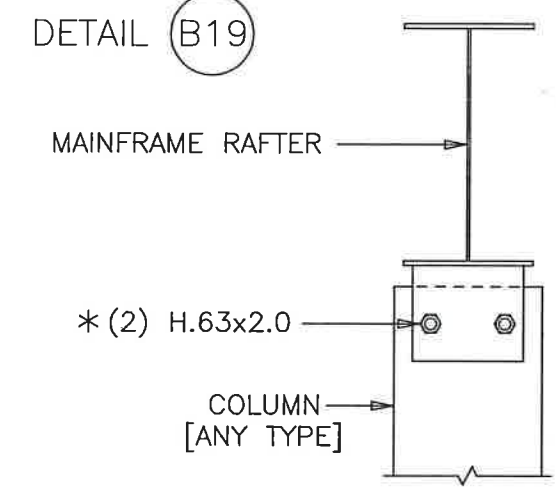
DETAIL (A10)

PURLIN TO ENDWALL RAFTER

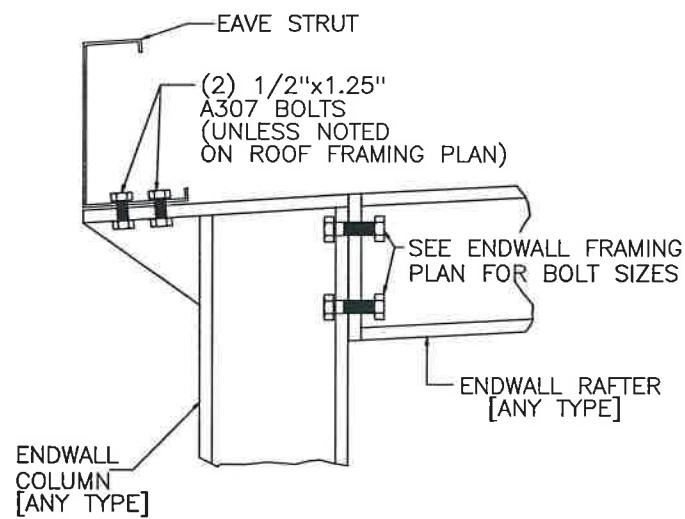


* UNLESS NOTED ON ENDWALL OR PARTITION FRAMING PLAN(S)
BUILT-UP COLUMN / RAFTER CONNECTION

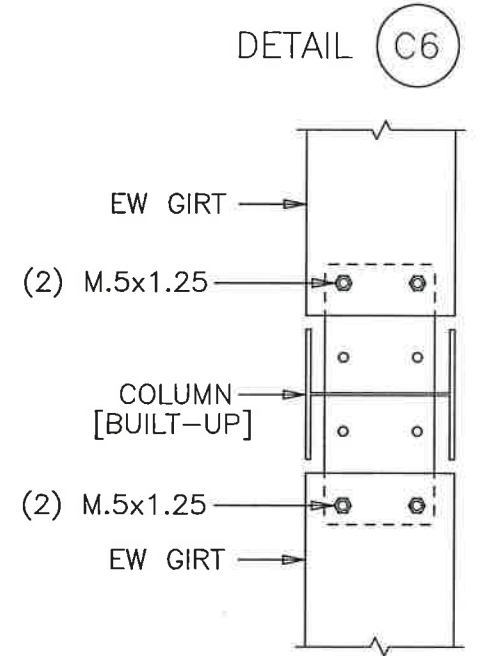
NOTE: HAND TIGHTEN EW COLUMN/RAFTER CONNECTION BOLTS, THEN INTERRUPT THREADS.



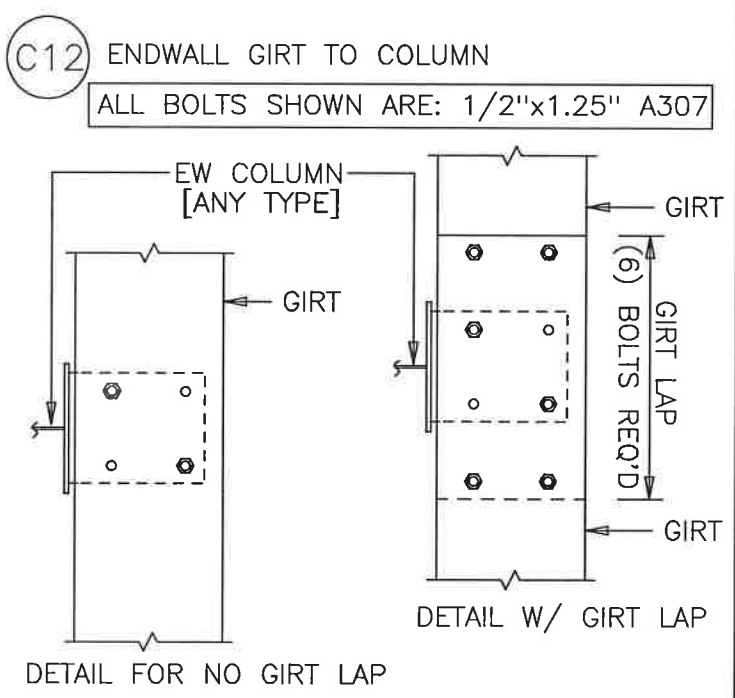
* UNLESS NOTED EW FRAMING OR PARTITION FRAMING PLAN(S)
MAINFRAME RAFTER / COLUMN CONNECTION



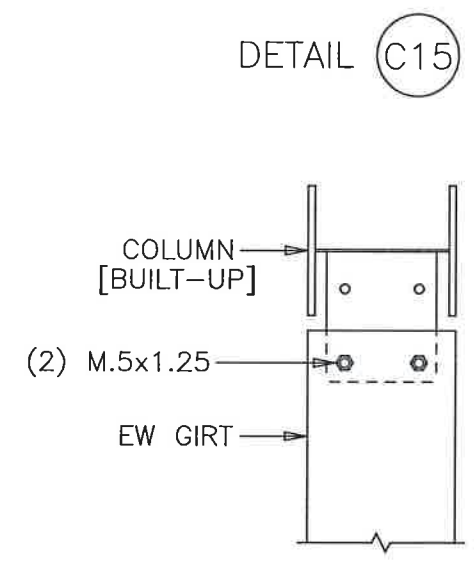
(B24) BYPASS ROTATED CORNER COLUMN TO ENDWALL RAFTER



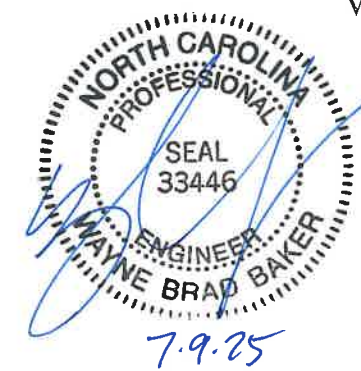
ENDWALL GIRTS TO INTERIOR COLUMN



DETAIL FOR NO GIRTS LAP



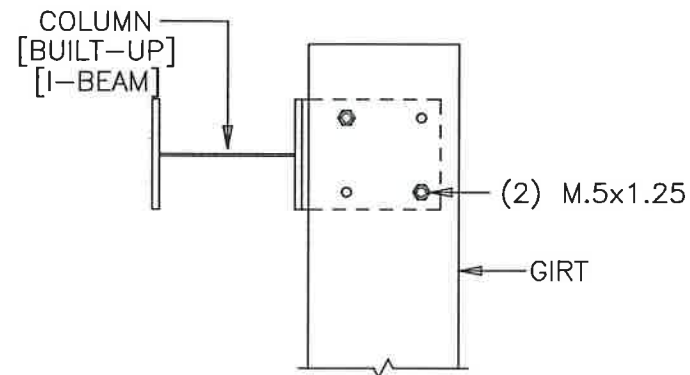
ENDWALL GIRTS STOPPING AT COLUMN



Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

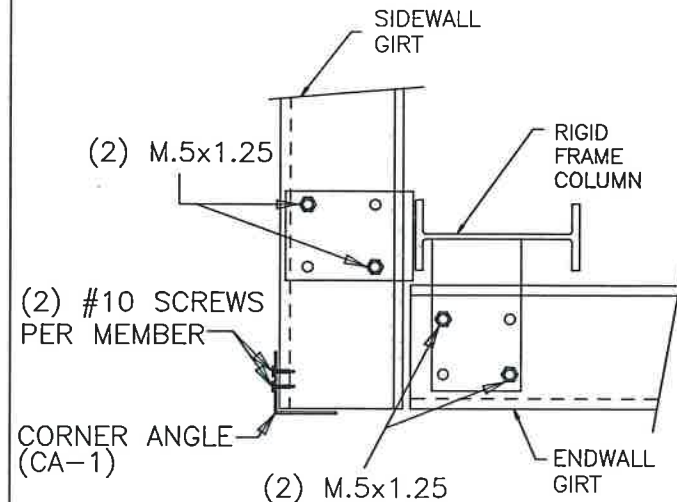
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

DETAIL (C72)

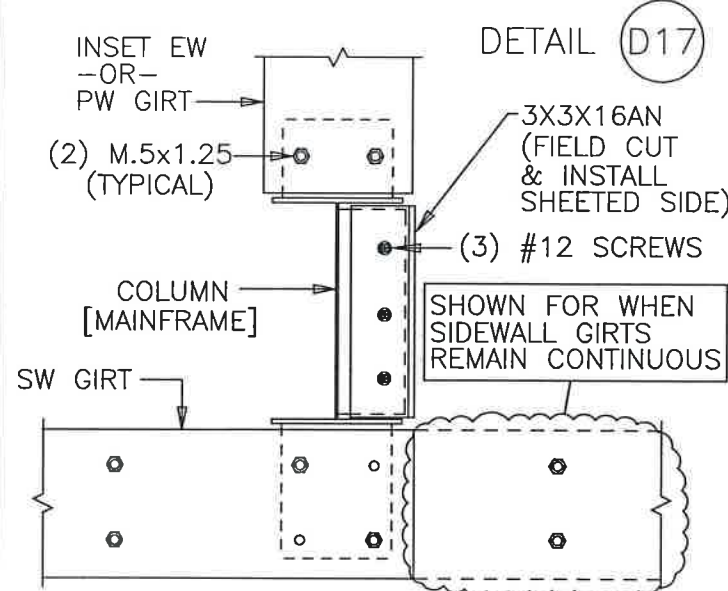


* (4) M.5x1.25 - IF (2) GIRTS / NO LAP.

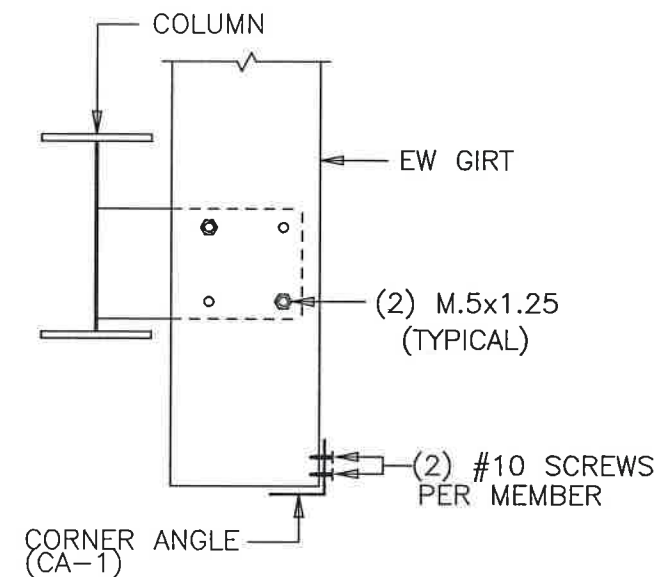
BYPASS ENDWALL GIRT TERMINATION AT COLUMN



D16 CORNER COLUMN TO WALL GIRT

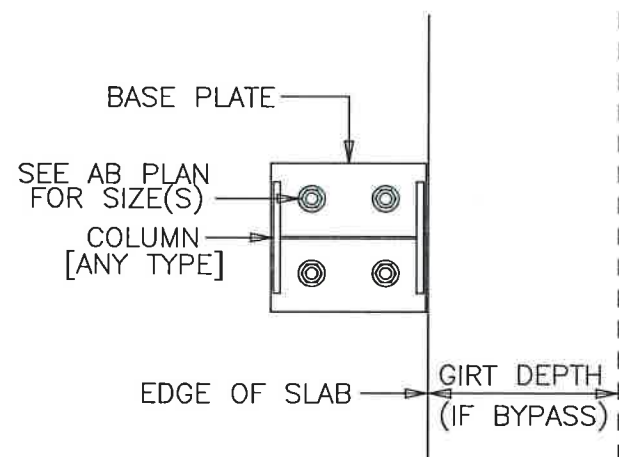


GIRT CONNECTIONS AT PARTITION WALL OR INSET ENDWALL



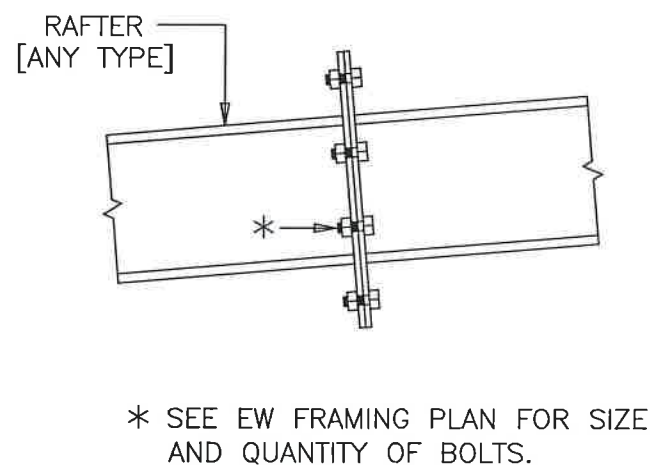
D27 GIRTS TO CORNER COLUMN

DETAIL (E3)



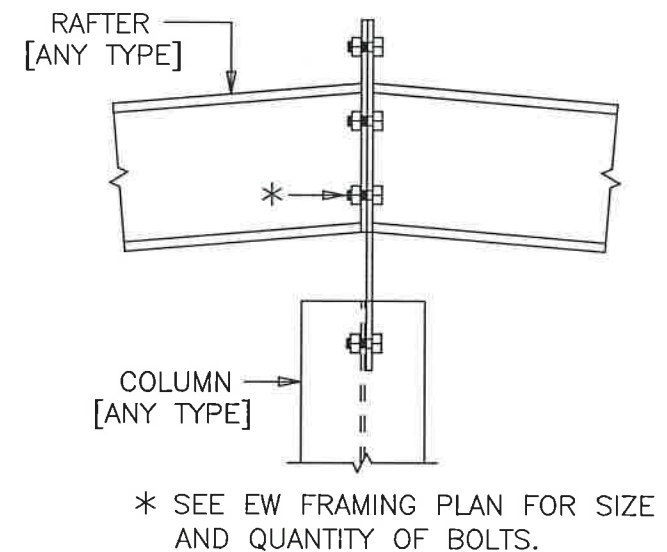
ENDWALL COLUMN BASE DETAIL

DETAIL (F9)



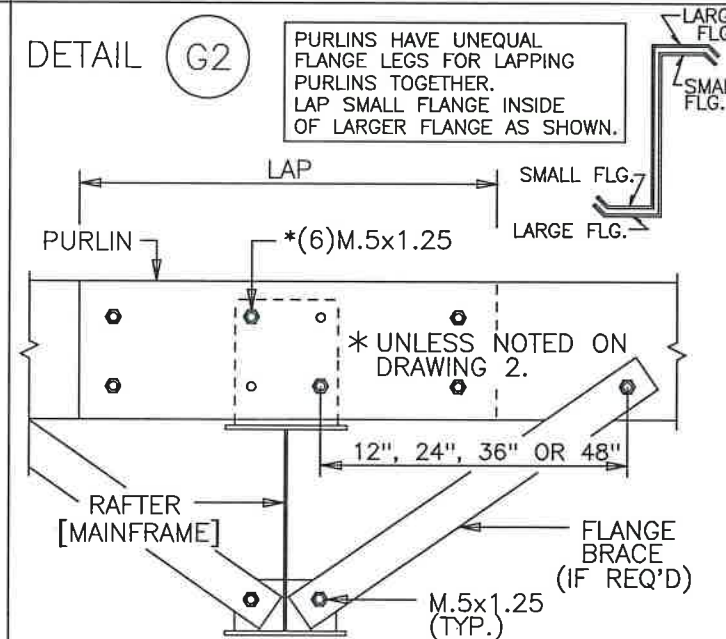
RAFTER DETAIL AT SPLICE

DETAIL (F20)



RAFTER DETAIL AT RIDGE W/ CENTER COLUMN

DETAIL (G2)

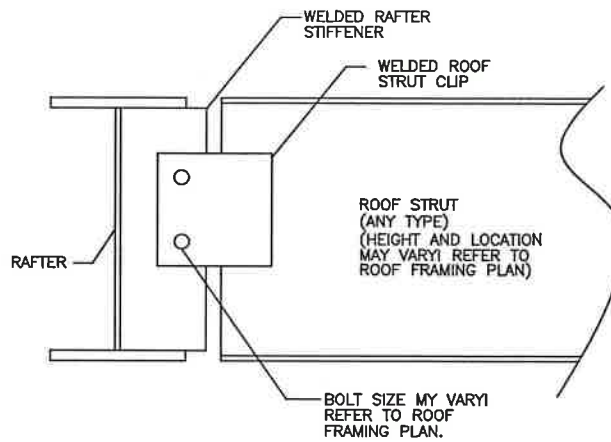


PURLIN TO MAINFRAME RAFTER

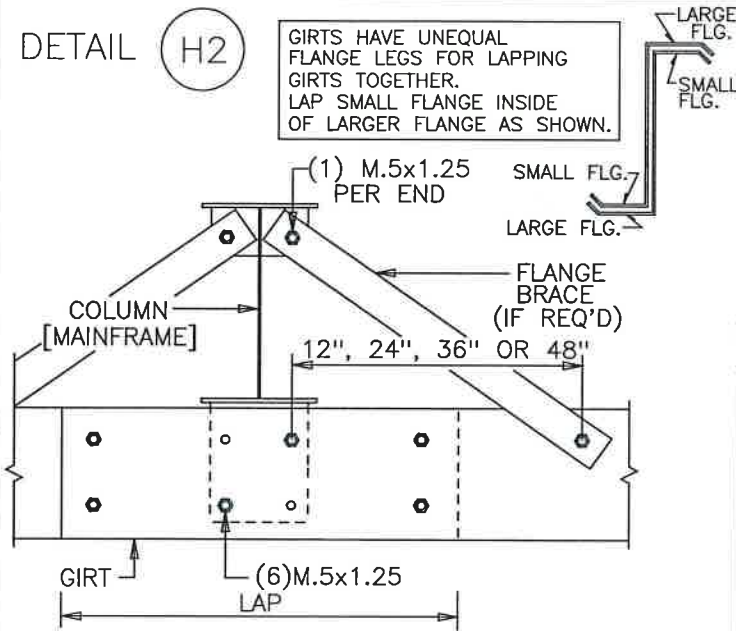
Wayne Brad Baker, P.E.
235 Sanders Rd.
Hamira, GA 31632



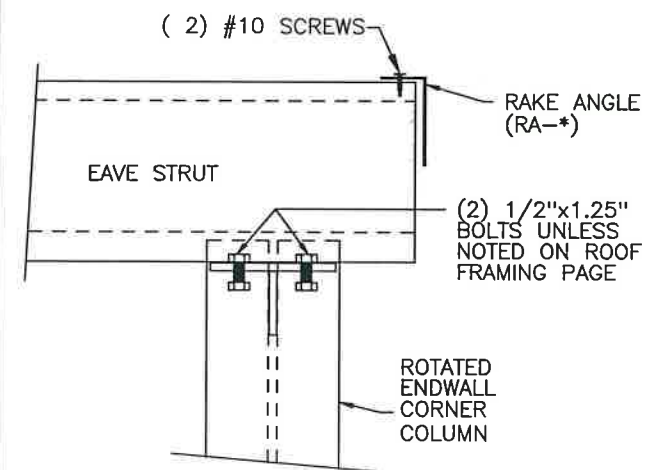
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



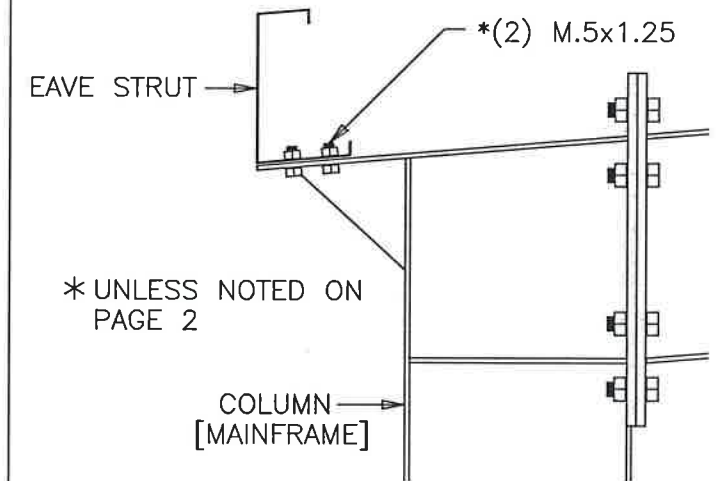
G19 FLUSH ROOF STRUT TO RIGID FRAME RAFTER



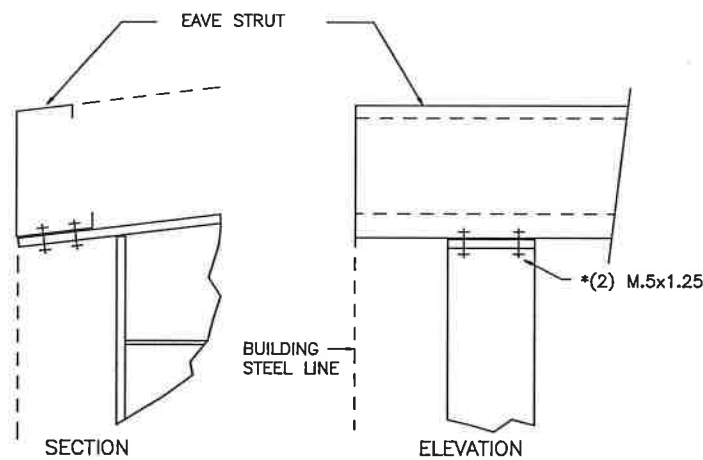
GIRT TO MAINFRAME COLUMN



I14 EAVE STRUT TO ENDWALL CORNER COLUMN

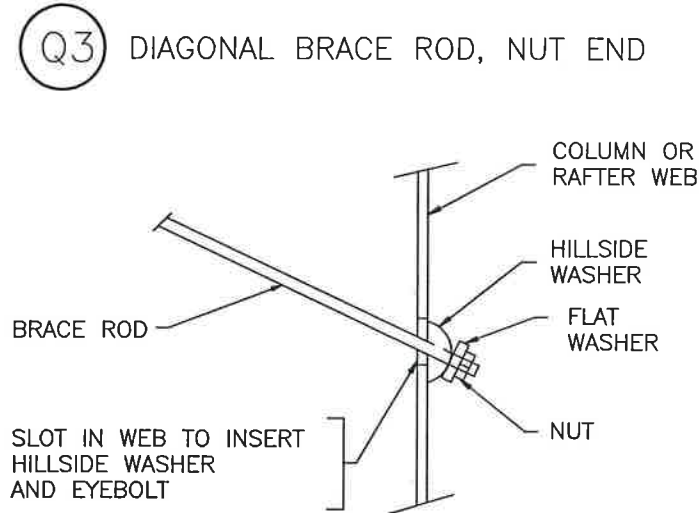


J2 EAVE STRUT CONNECTION AT MAINFRAME



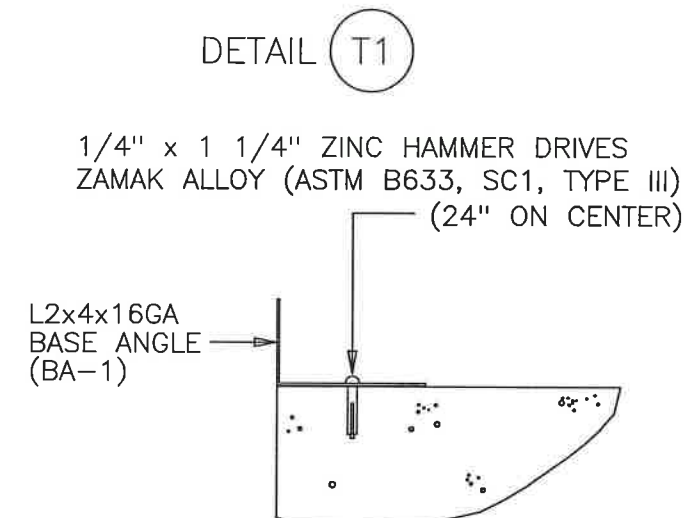
* = UNLESS NOTED ON ROOF FRAMING PLAN

J24 EAVE STRUT TO RIGID FRAME

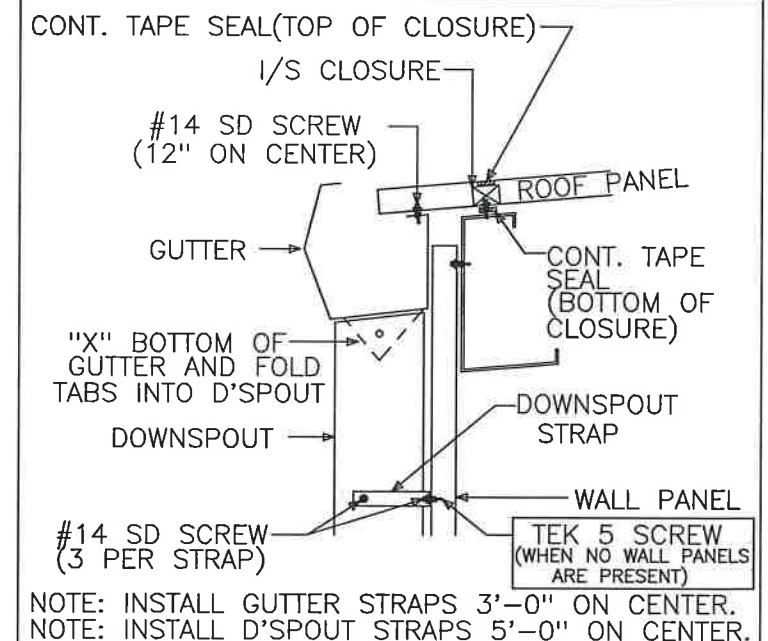


NOTE: WHEN FLUSH GIRTS/PURLINS ARE USED, FIELD SLOT GIRT/PURLIN AS REQ'D FOR CABLE/ROD PASSAGE THROUGH GIRT/PURLIN.

Q3 DIAGONAL BRACE ROD, NUT END



BASE ANGLE DETAIL



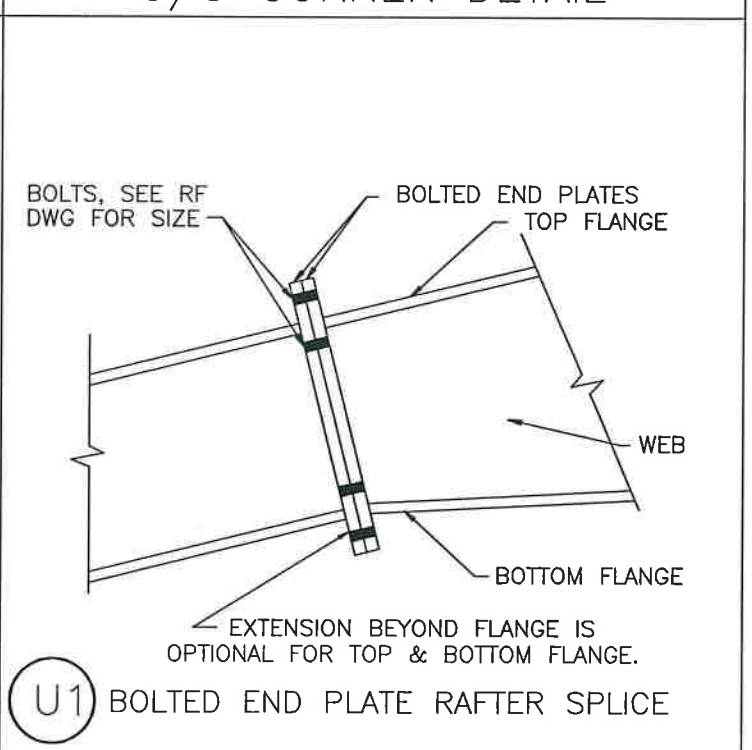
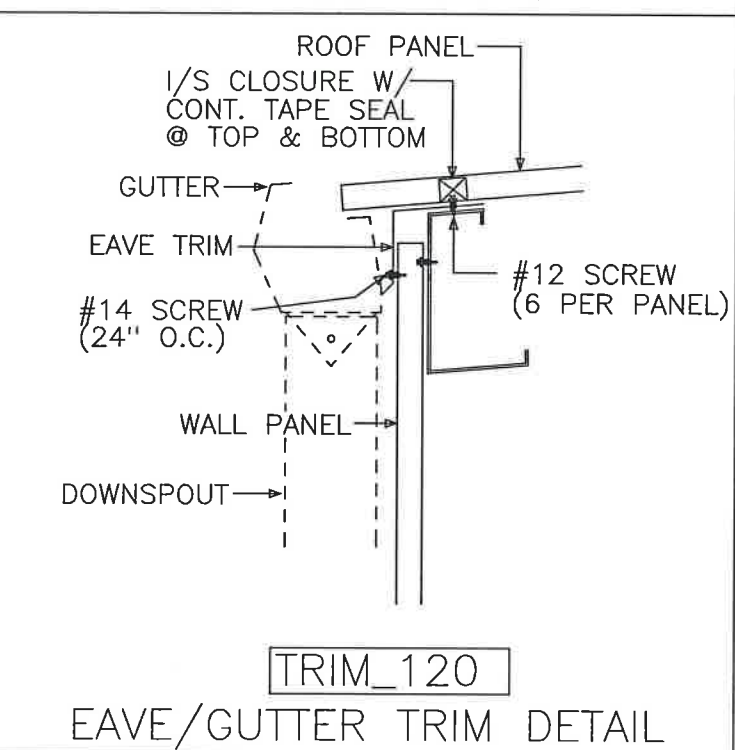
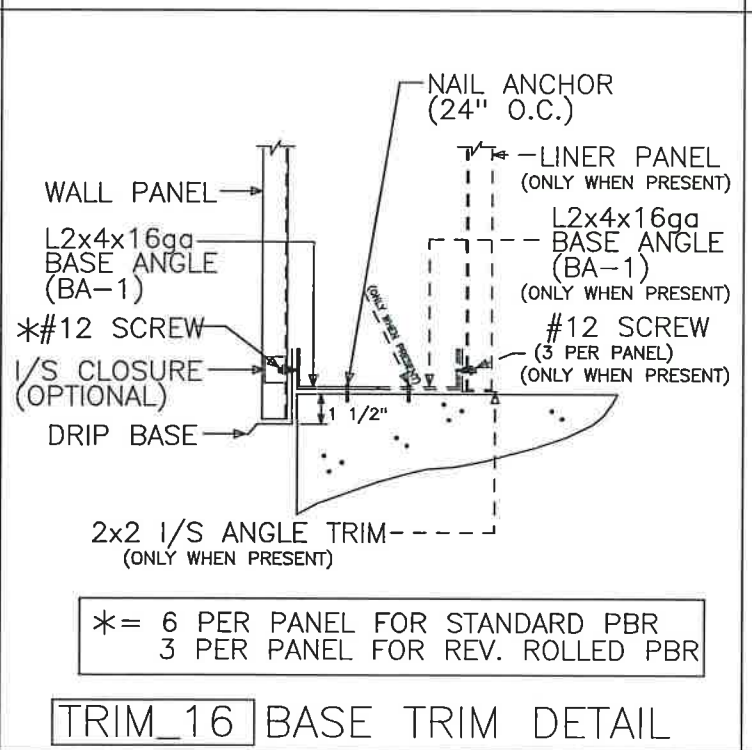
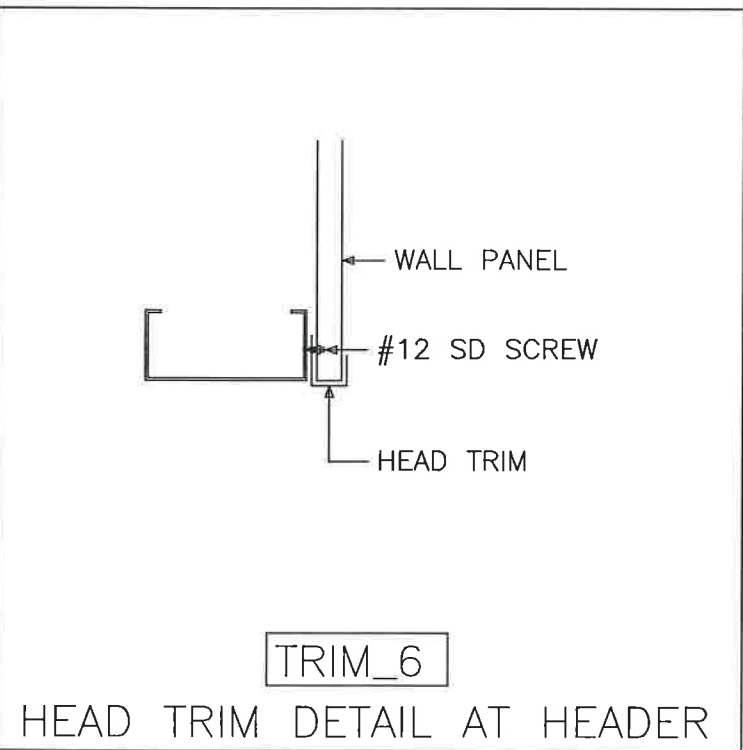
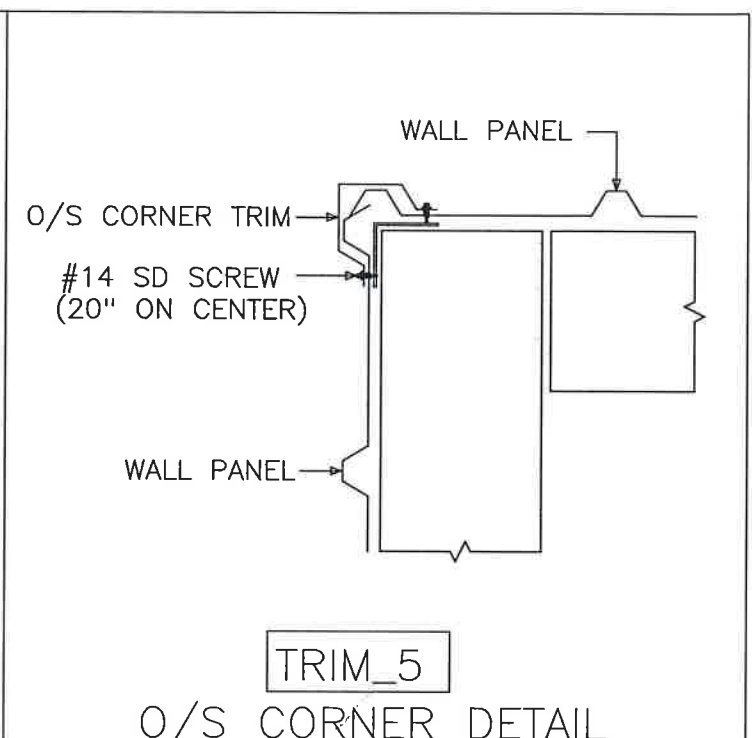
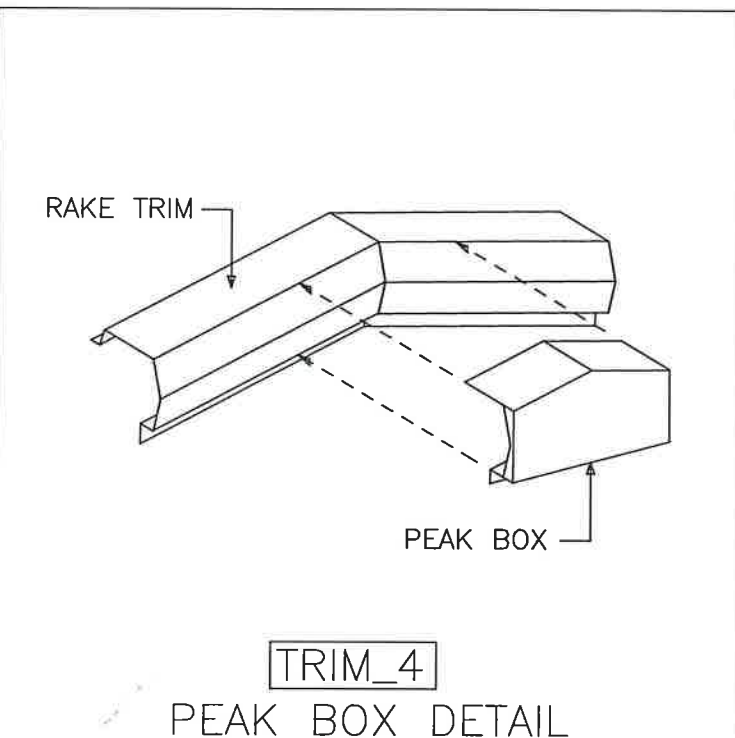
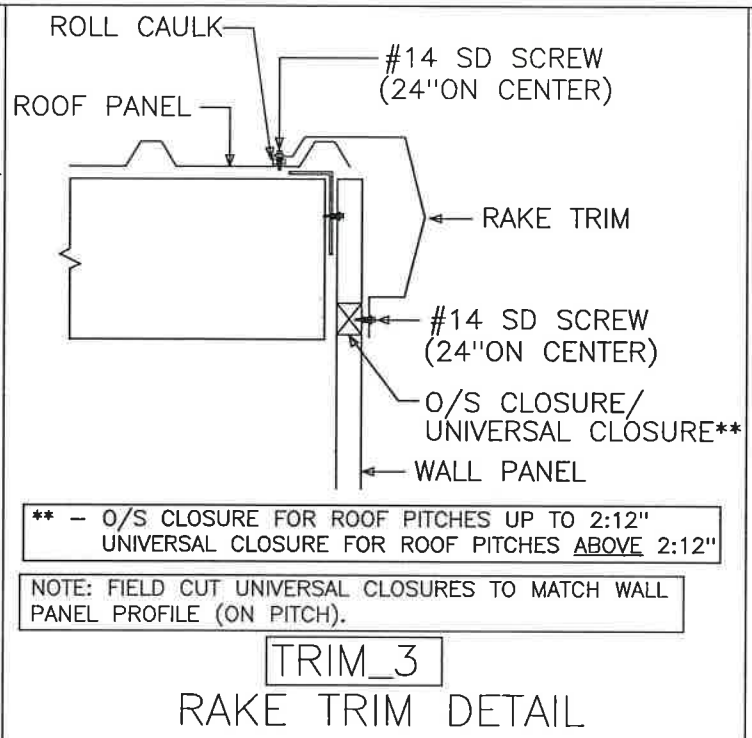
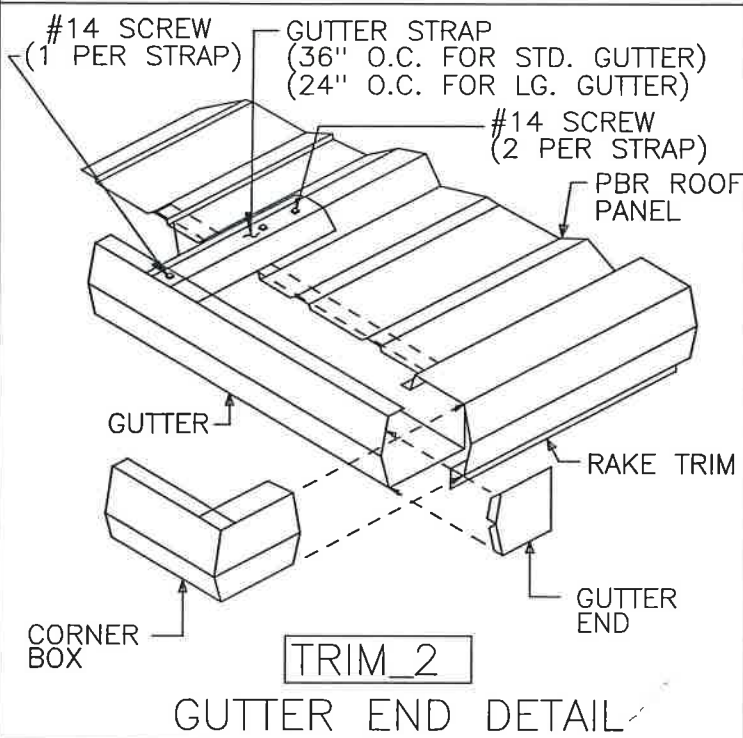
TRIM_1 GUTTER DETAIL

NOTE: INSTALL GUTTER STRAPS 3'-0" ON CENTER. NOTE: INSTALL D'SPOUT STRAPS 5'-0" ON CENTER.

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.2	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



** - O/S CLOSURE FOR ROOF PITCHES UP TO 2:12"
 UNIVERSAL CLOSURE FOR ROOF PITCHES ABOVE 2:12"

NOTE: FIELD CUT UNIVERSAL CLOSURES TO MATCH WALL PANEL PROFILE (ON PITCH).

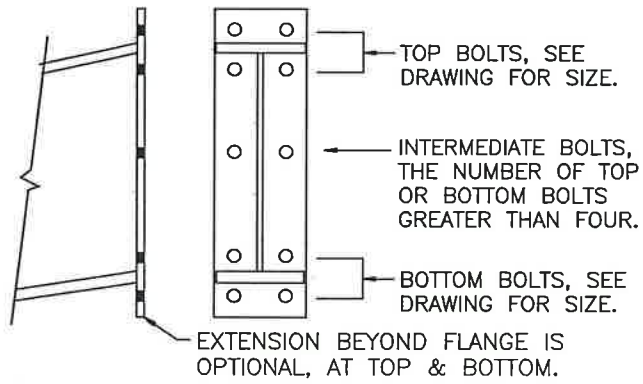
* = 6 PER PANEL FOR STANDARD PBR
 3 PER PANEL FOR REV. ROLLED PBR

U1 BOLTED END PLATE RAFTER SPLICE

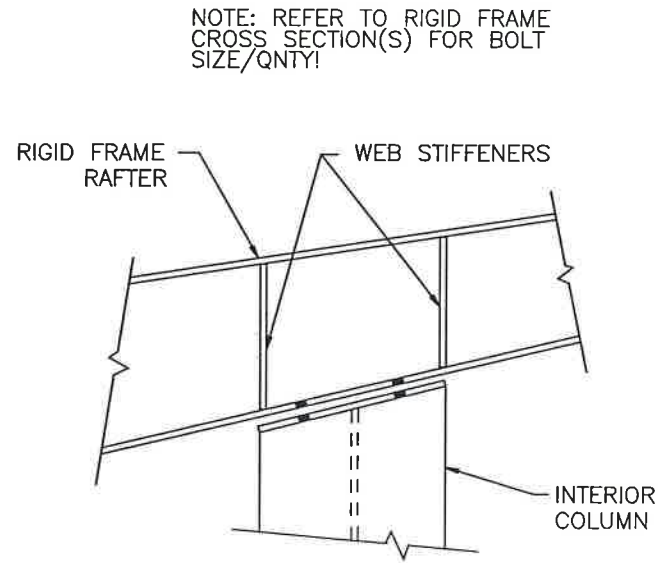
Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Habira, GA 31632



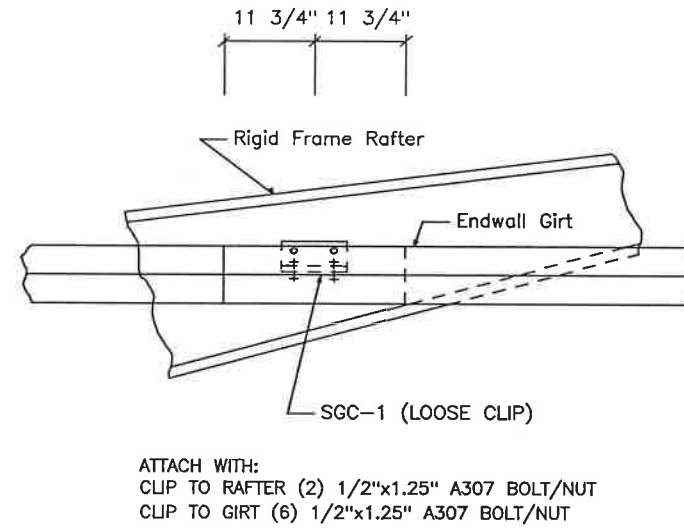
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.3	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



BOLTED END PLATE CONNECTION



(V2) INTERIOR COLUMN TO RAFTER



(W8) SECTION OF ENDWALL GIRT TO RAFTER

STRUCTURAL BOLTED CONNECTIONS

REFER TO COVER PAGE "GENERAL NOTES" PARAGRAPH "C", SECTION "9" FOR INSTRUCTIONS ON TIGHTENING ALL A325 AND A490 CONNECTION BOLTS.

TRIM NOTES:

- [1] SEAL TRIM SPLICES WITH TUBE CAULK.
- [2] SECURE GUTTER SPLICES AND END PLUGS WITH RIVETS.
- [3] SECURE ALL OTHER ROOF TRIM SPLICES WITH TRIM SCREWS UNLESS NOTED OTHERWISE.
- [4] TRIM SCREWS ARE LOCATED 24" ON CENTER UNLESS NOTED OTHERWISE.
- [5] STD. TRIM SPLICES ARE 3" TOTAL UNLESS NOTED OTHERWISE.

MORTISE PREPPED PERSONNEL DOORS

ALL MORTISE PREPPED PERSONNEL DOORS COME AS RIGHTHAND REVERSED SWING.

(i.e. STANDING ON THE OUTSIDE OF THE BUILDING FACING THE DOOR, THE LOCK WILL BE ON THE LEFTHAND SIDE OF THE DOOR AND THE DOOR WILL SWING OUTWARD FROM THE BUILDING.)

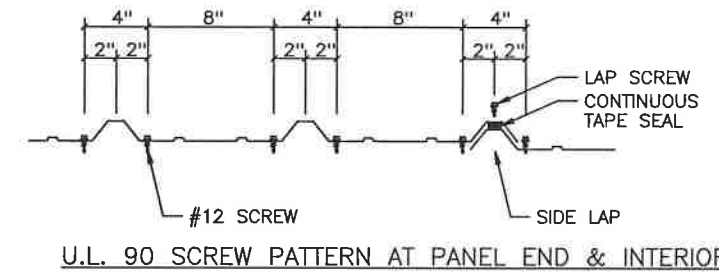
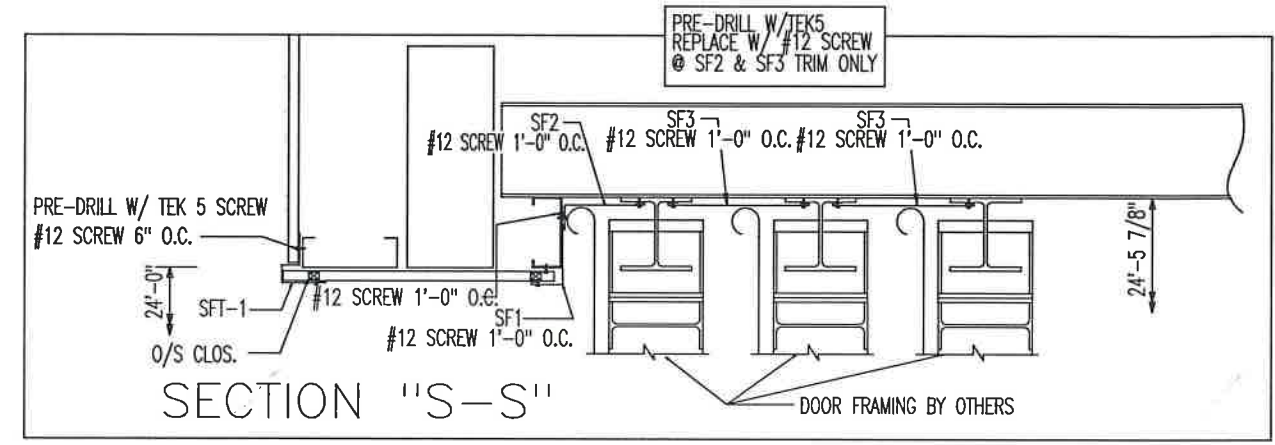
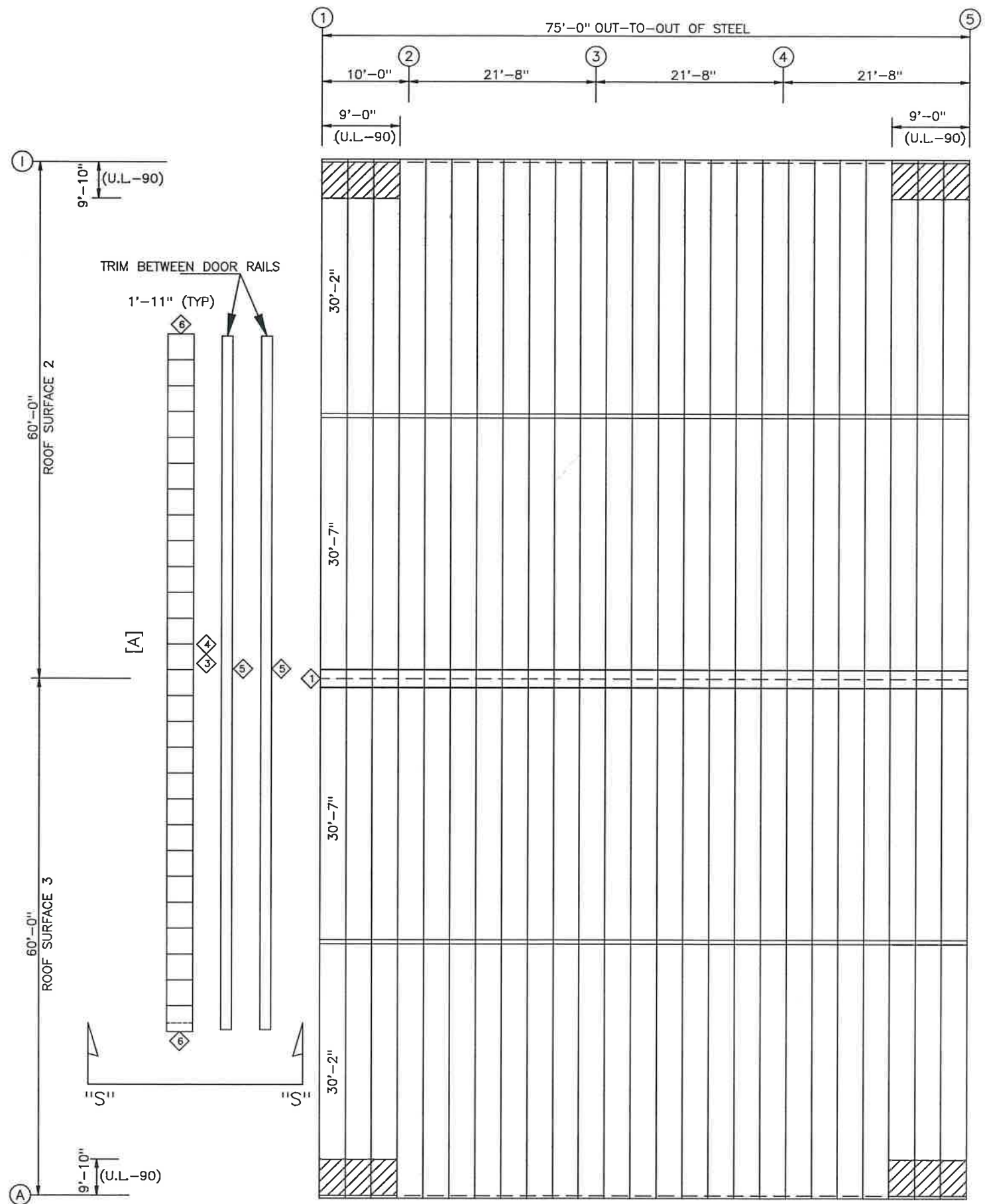
ANY FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE ERECTOR AND MBM IS NOT LIABLE FOR LABOR CHARGES NOR DAMAGES DUE TO ERROR.

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.4	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

TRIM TABLE		
ROOF PLAN		
ID	PART	LENGTH
1	D/F CAP6	3'-0"
3	SF1	20'-3"
4	SF2	20'-3"
5	SF3	20'-3"
6	R JAMB	1'-10"



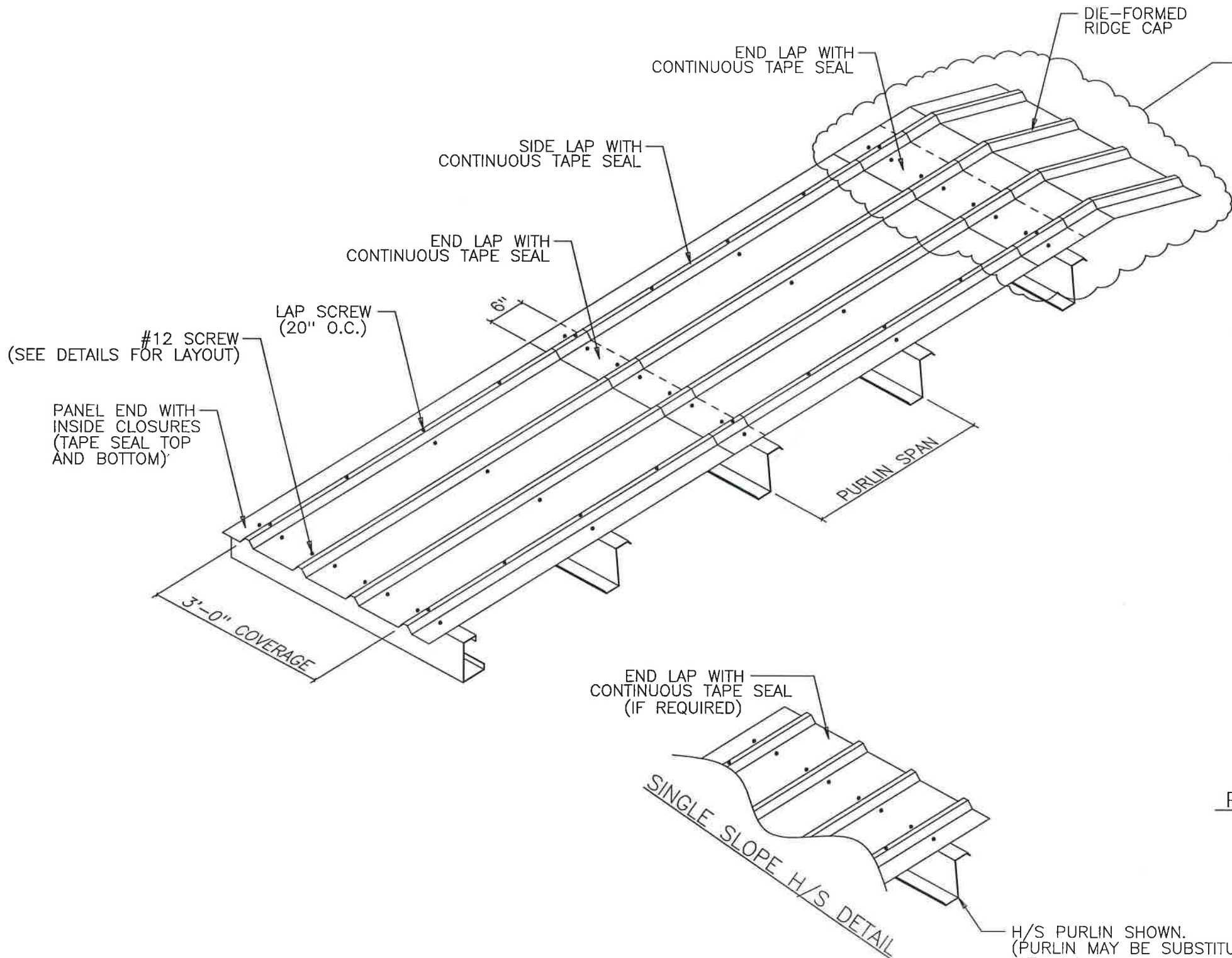
 = U.L. 90 SCREW PATTERN @ HATCHED IN AREAS WITHIN DIMENSIONS SHOWN ON ROOF SHEETING PLAN.

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

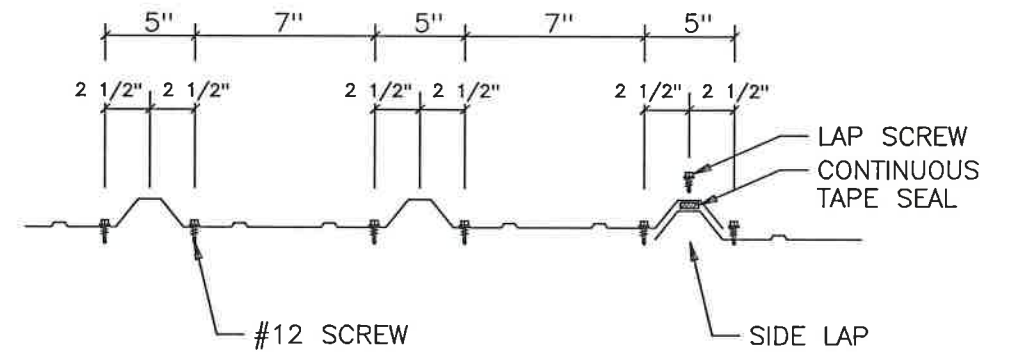


ROOF SHEETING PLAN
PANELS: 26 GA. PBR - GALVALUME
[A] SOFFIT PANELS: 26 GA. PBR - KOKO BROWN

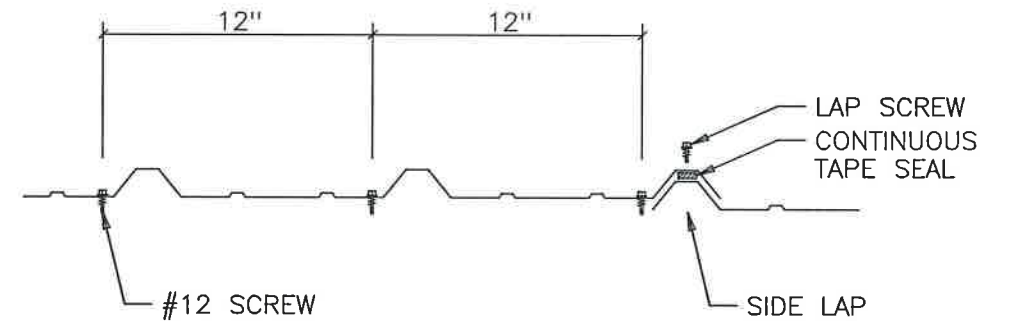
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ROOF PANELS & TRIM			
DRAWING NO: PAGE 6	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



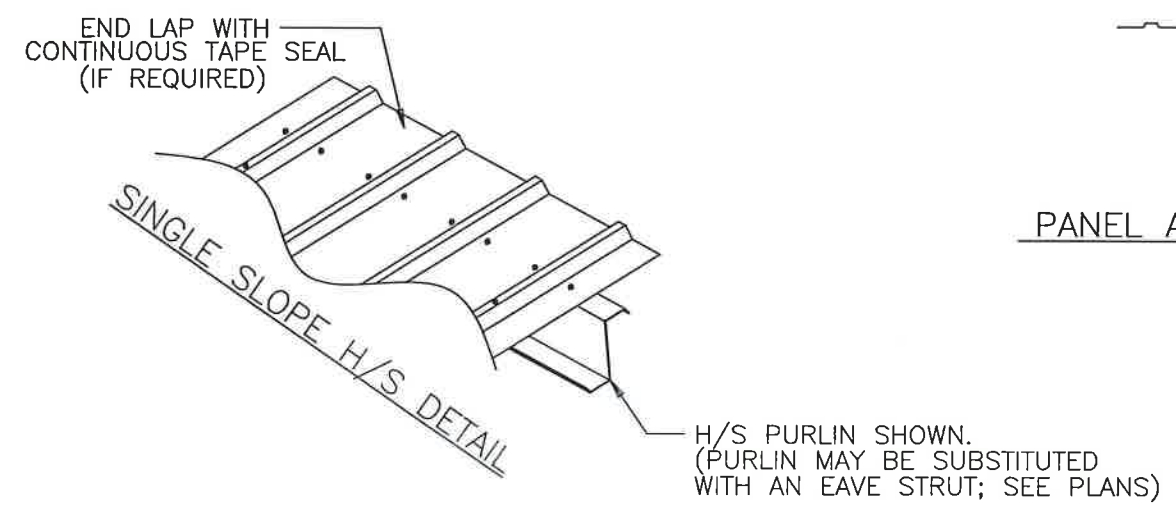
D/F RIDGE SHOWN (GABLED).
SEE BELOW FOR ALTERNATE
DETAIL TO BE VIEWED WHEN
BUILDING IS SINGLE SLOPED.



PANEL ATTACHMENT AT PANEL END
(PEAK PURLIN, EAVE STRUT, AND PANEL END LAPS)



PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



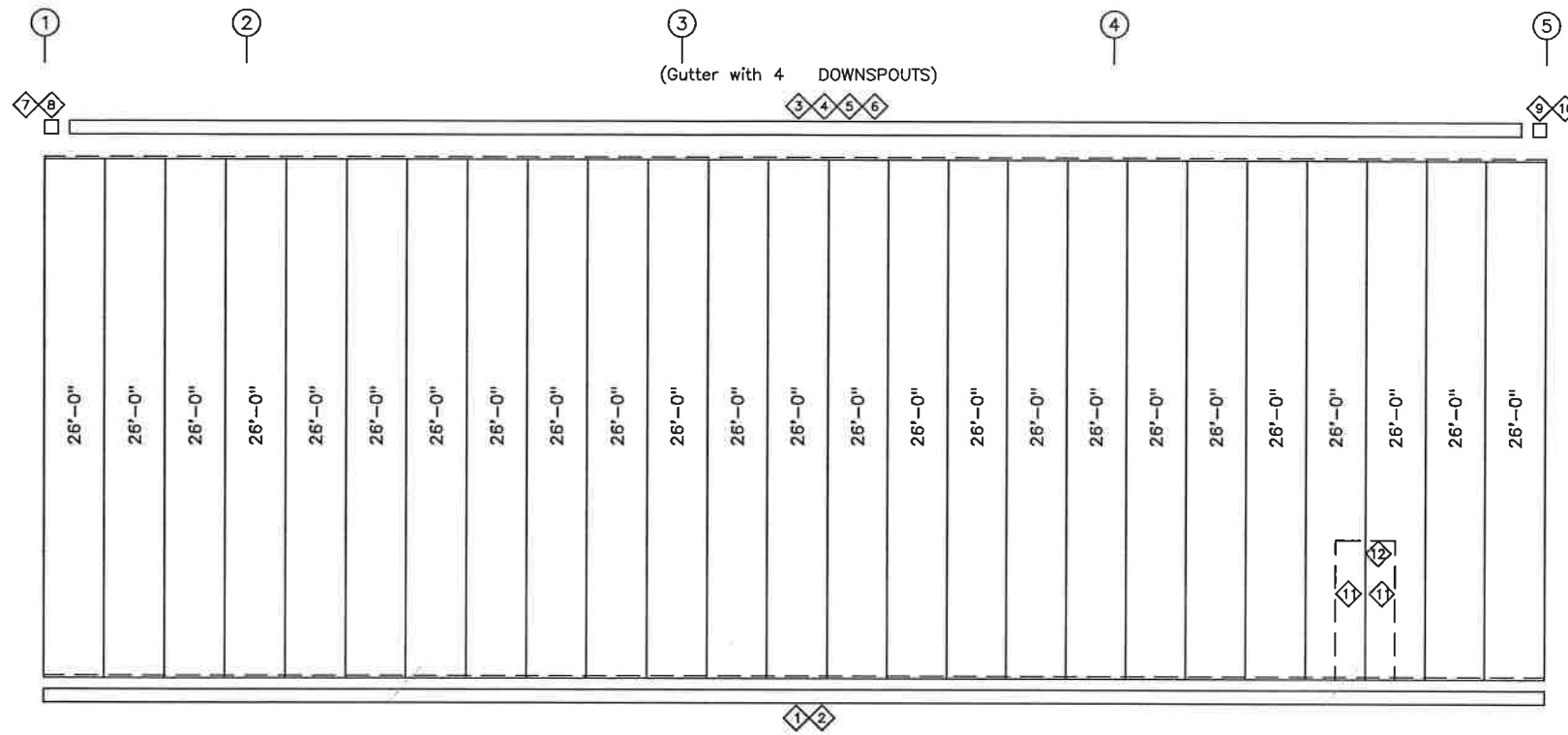
NOTES:

- [1] ALL END LAPS MUST BE A MINIMUM OF 6".
- [2] METAL SHAVINGS MUST BE SWEEPED FROM THE ROOF EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
- [3] TAPE SEAL MUST BE APPLIED WITH NO GAPS OR BREAKS.
- [4] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE PURLINS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

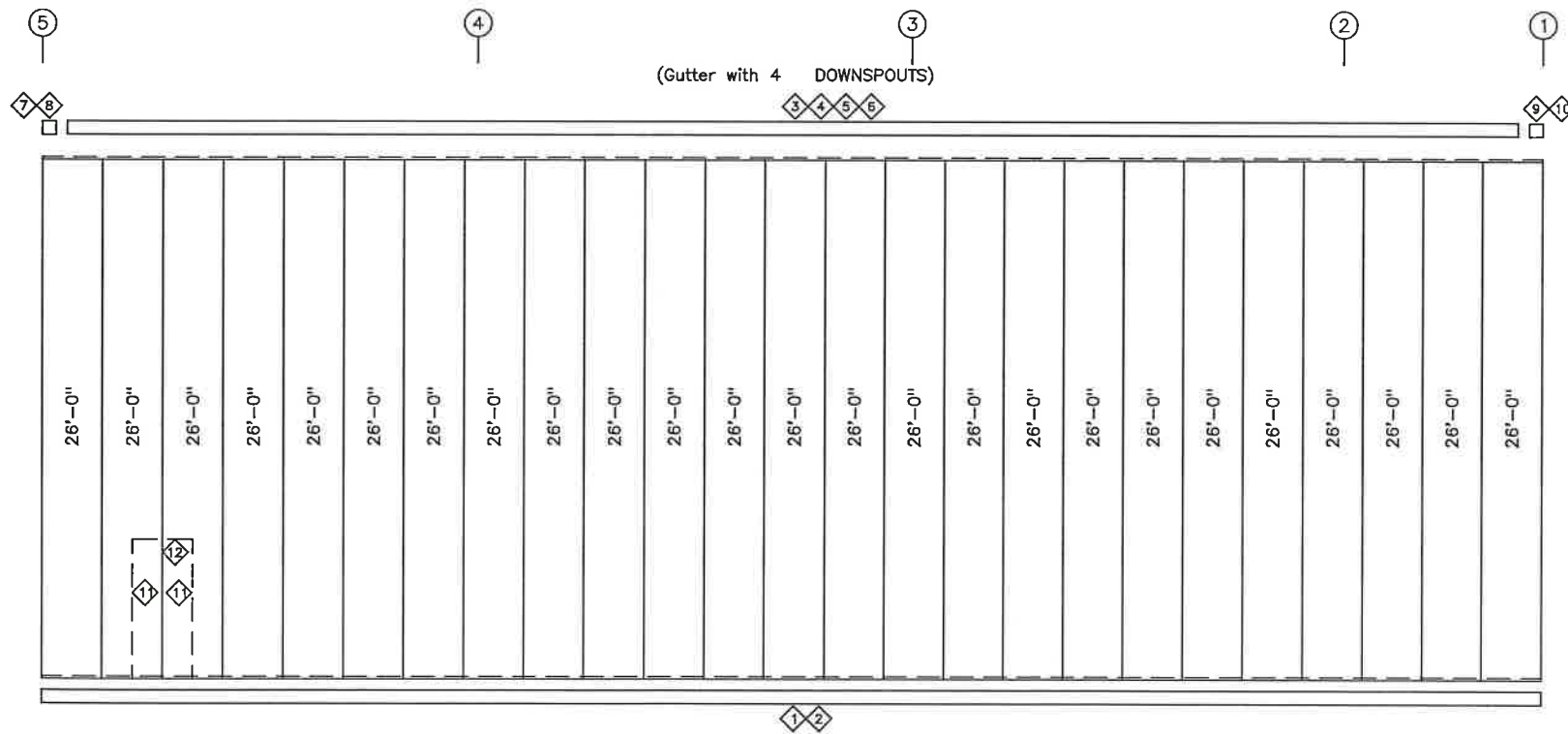
Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



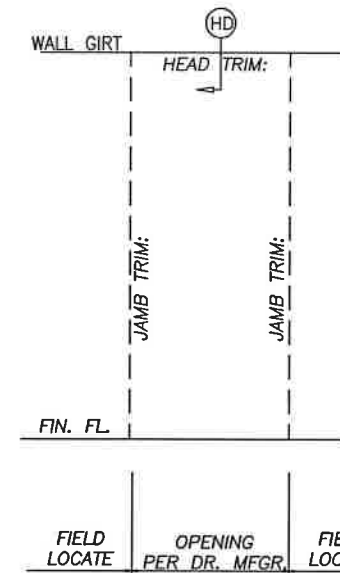
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ROOF PANEL DETAILS			
DRAWING NO: PAGE 6.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 GA. PBR - SADDLE TAN

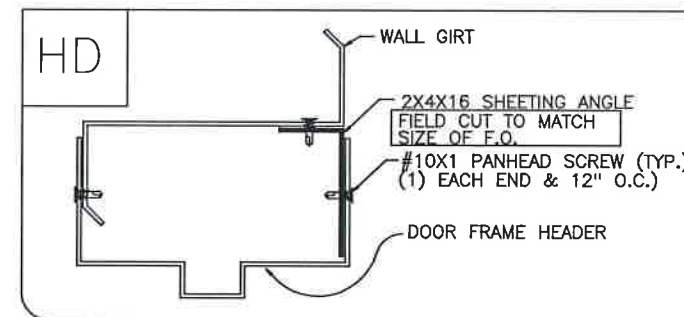


SIDEWALL SHEETING & TRIM: FRAME LINE I
PANELS: 26 GA. PBR - SADDLE TAN



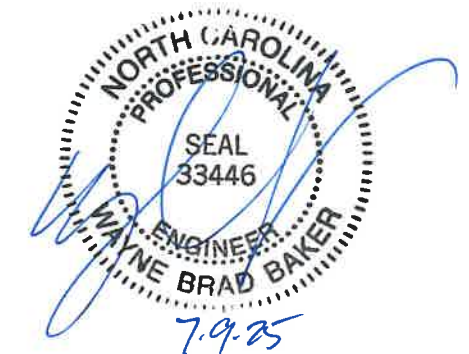
3070 TRIM KIT

1. FIELD CUT AND WORK GIRTS, PANELS, AND TRIM AS REQUIRED.
2. REFER TO DETAIL PAGES FOR APPLICABLE TRIM DETAILS. (DETAIL PAGE 5.1)

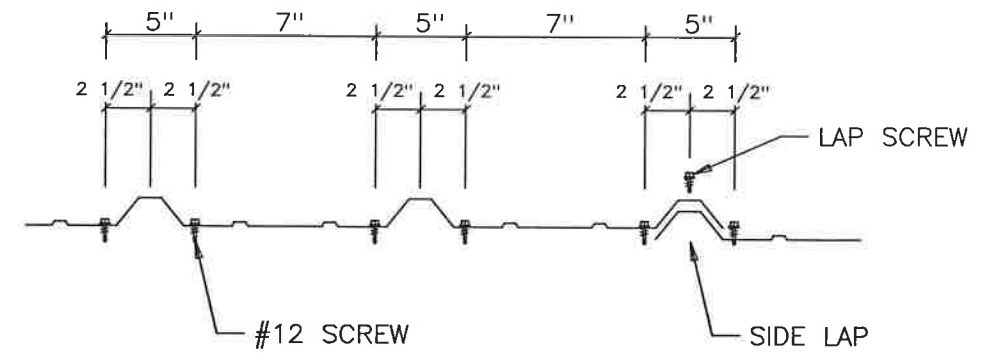
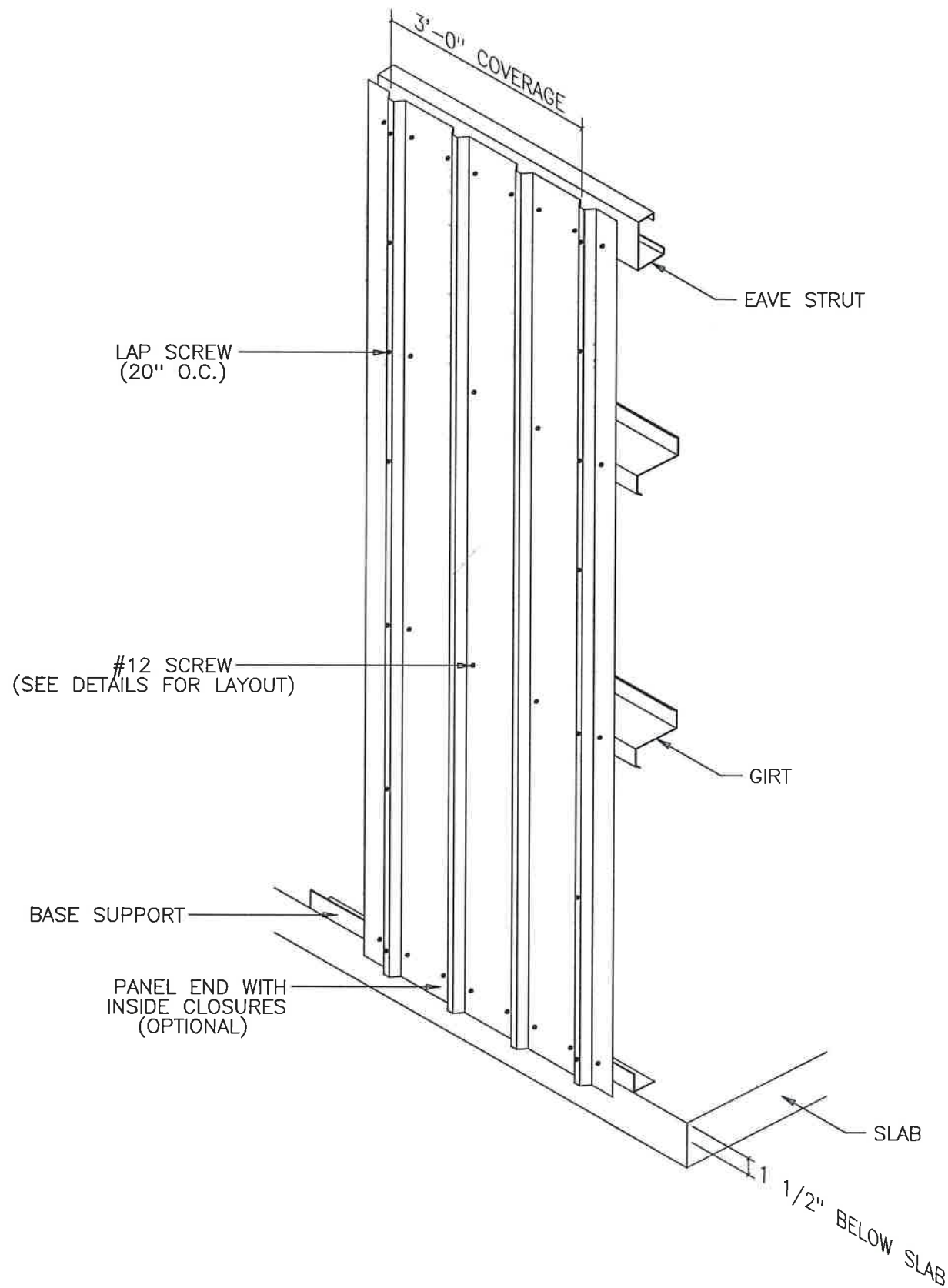


TRIM TABLE FRAME LINE A & I			
ID	PART	LENGTH	DETAIL
1	DRIP BASE	20'-3"	TRIM_16
2	DRIP BASE	15'-3"	TRIM_16
3	GUTTER	20'-3"	TRIM_1
4	GUTTER	15'-3"	TRIM_1
5	EAVE TRM	20'-3"	TRIM_120
6	EAVE TRM	15'-3"	TRIM_120
7	GUTEND L	1"	TRIM_2
8	CORBOX L	1'-0"	TRIM_2
9	GUTEND R	1"	TRIM_2
10	CORBOX R	1'-0"	TRIM_2
11	R JAMB	7'-3"	TRIM_8
12	R HEAD	3'-3"	TRIM_61

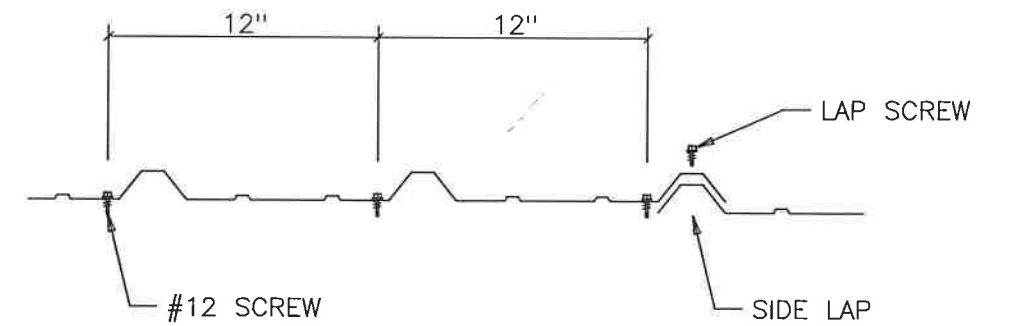
Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



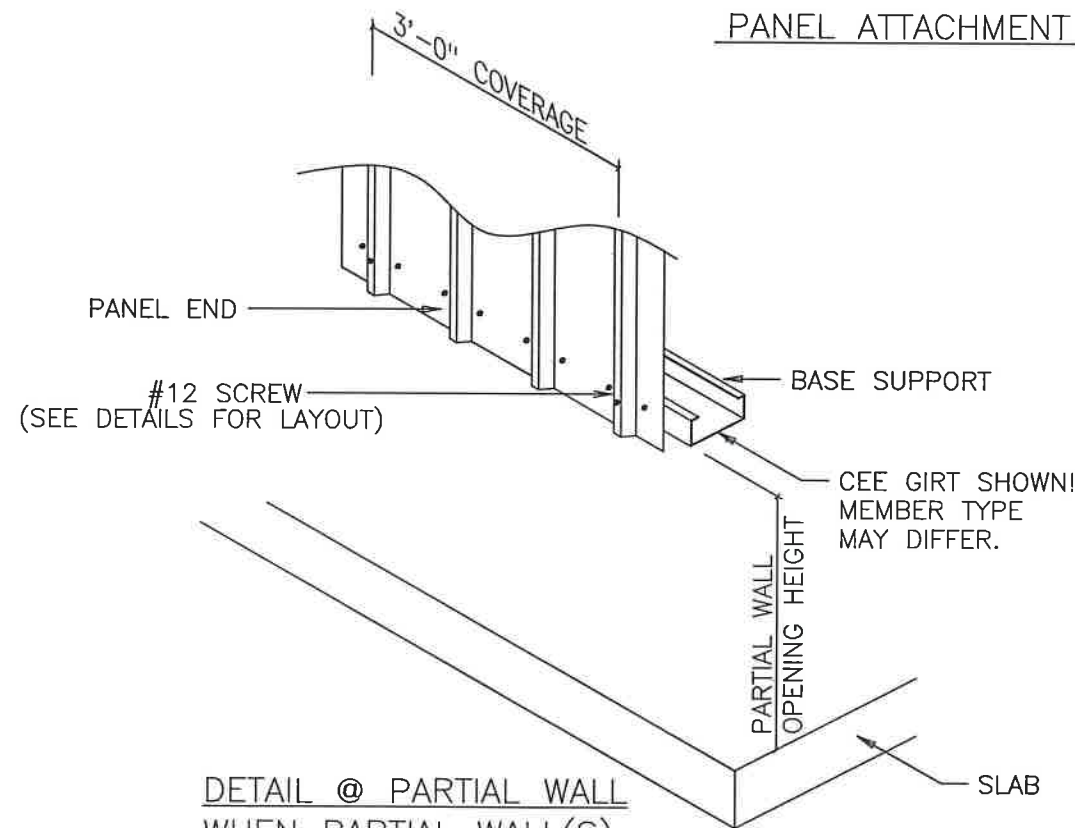
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL PANELS & TRIM			
DRAWING NO: PAGE 7	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



PANEL ATTACHMENT AT PANEL END
(BASE, EAVE STRUT, HEADER, SILL, AND PANEL END LAPS)

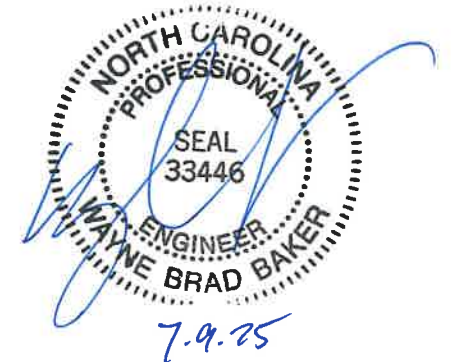


PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



DETAIL @ PARTIAL WALL
WHEN PARTIAL WALL(S)
ARE PRESENT

Wayne Brad Baker, P.E.
235 Sanders Rd.
Habira, GA 31632

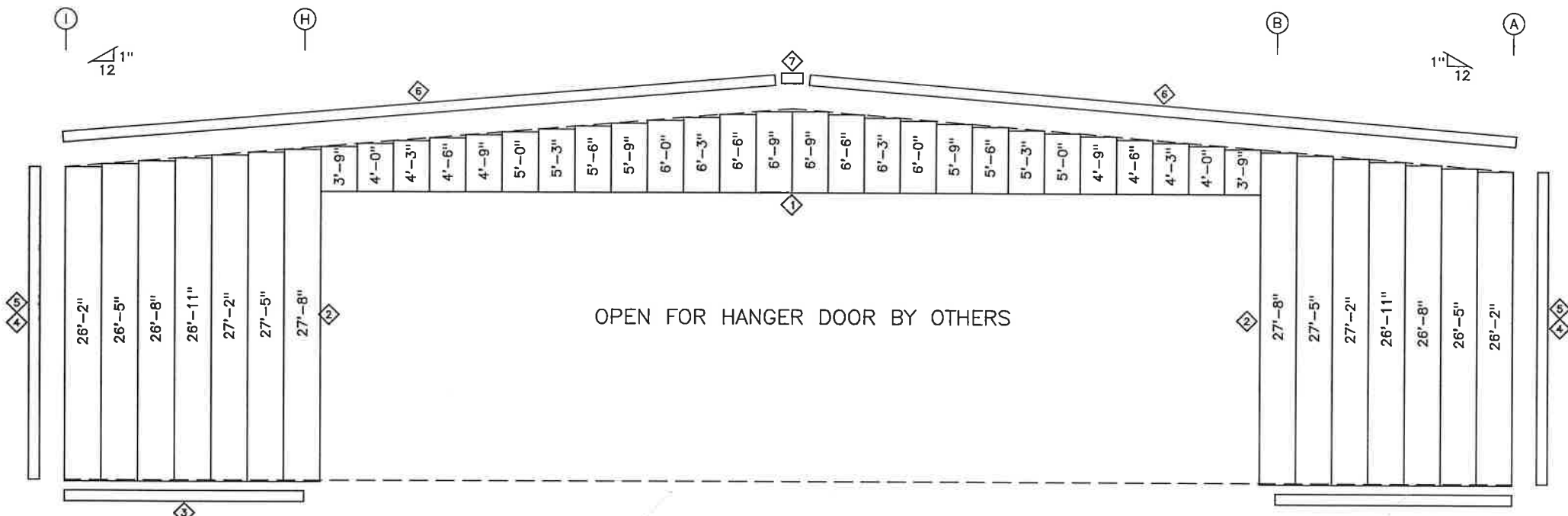


NOTES:

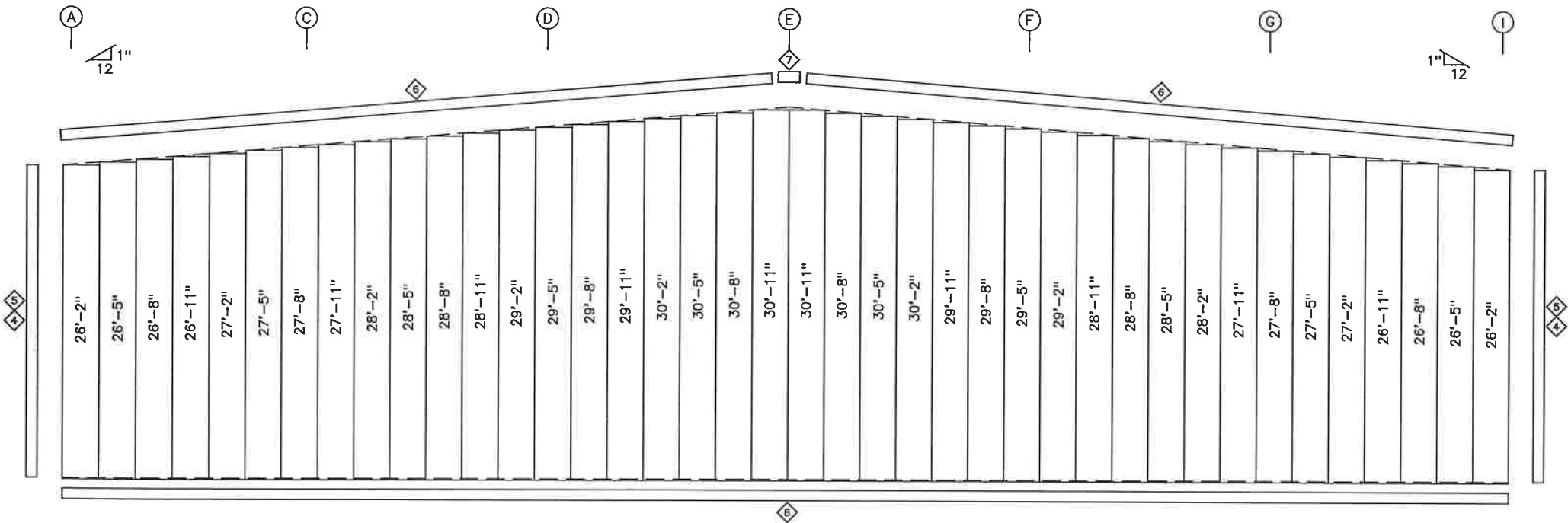
- [1] METAL SHAVINGS MUST BE SWEEPED FROM THE WALL EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
- [2] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE GIRTS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL PANEL DETAILS			
DRAWING NO: PAGE 7.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

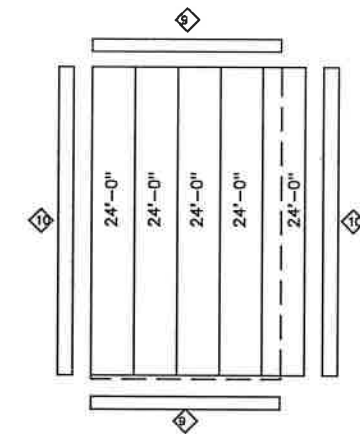
TRIM TABLE FRAME LINE 1 & 5			
ID	PART	LENGTH	DETAIL
1	SFT-1	20'-3"	"S-S"/6
2	MCCT8	12'-3"	CCT
3	DRIP BASE	20'-3"	TRIM_16
4	O/S CORN	20'-3"	TRIM_5
5	O/S CORN	6'-5"	TRIM_5
6	RAKE TRM	20'-3"	TRIM_3
7	PEAK BOX	1'-4"	TRIM_4
8	DRIP BASE	20'-3"	TRIM_16
9	R HEAD	13'-7"	
10	R JAMB	12'-3"	



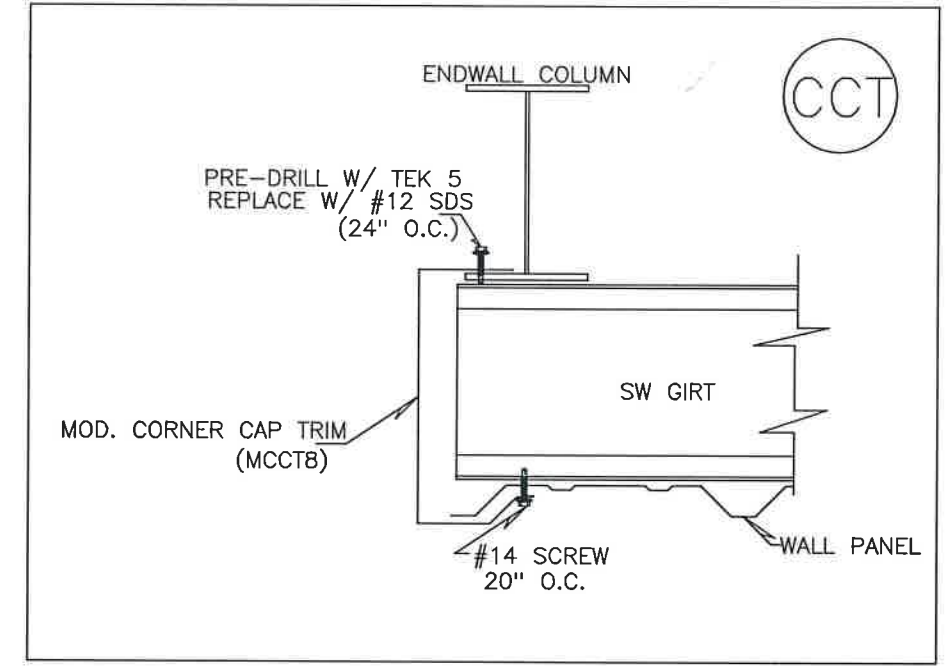
ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 GA. PBR - SADDLE TAN



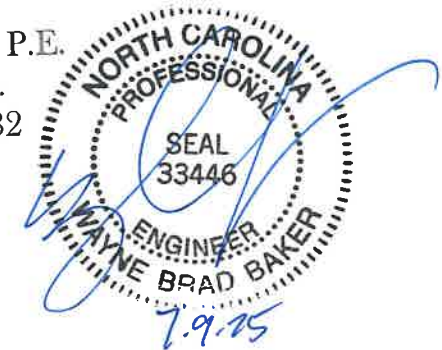
ENDWALL SHEETING & TRIM: FRAME LINE 5
PANELS: 26 GA. PBR - SADDLE TAN



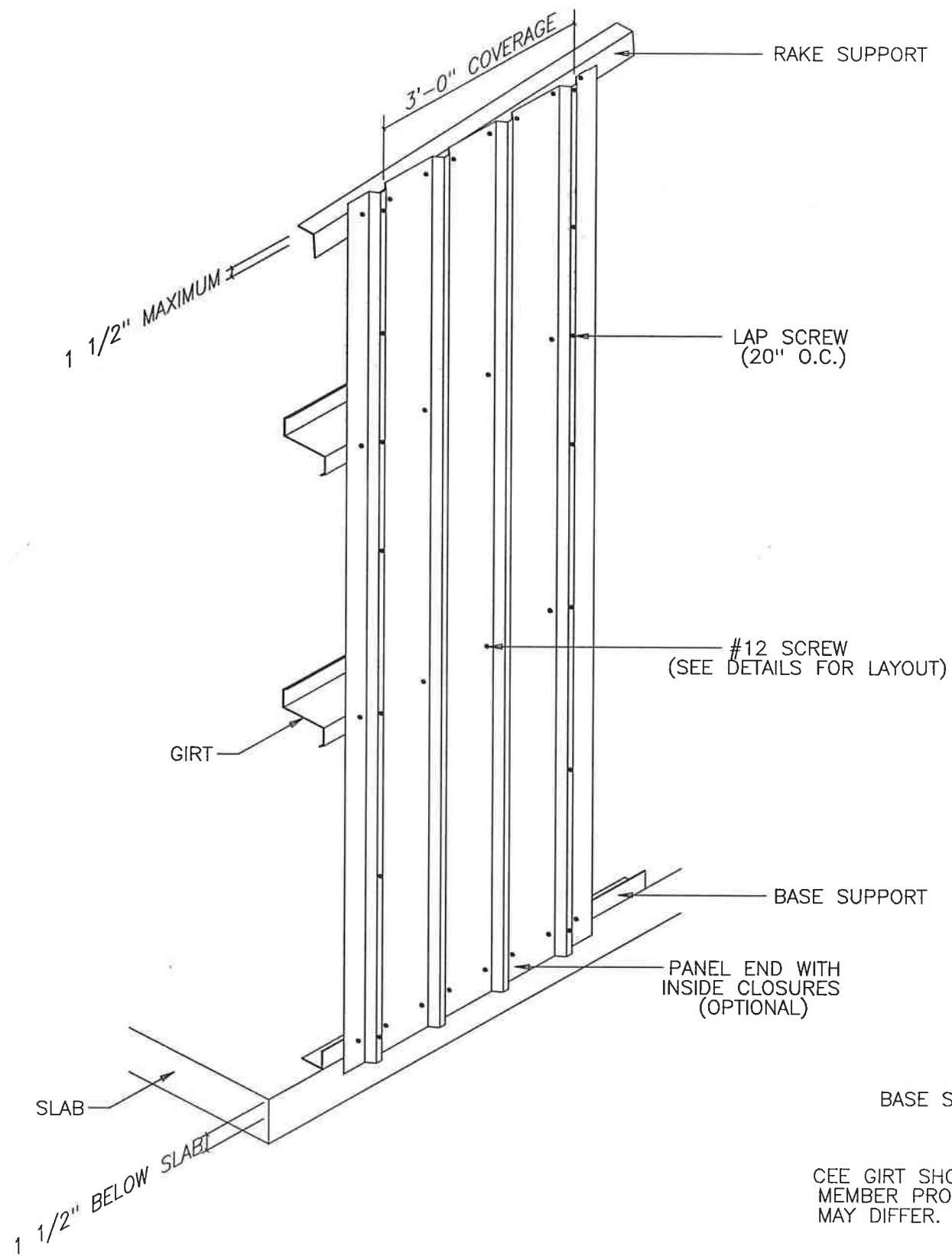
HANGER DOOR: QTY 6
DOOR FRAMING BY OTHERS
SHEET ON ONE SIDE ONLY
PANELS: 26 GA. PBR - SADDLE TAN



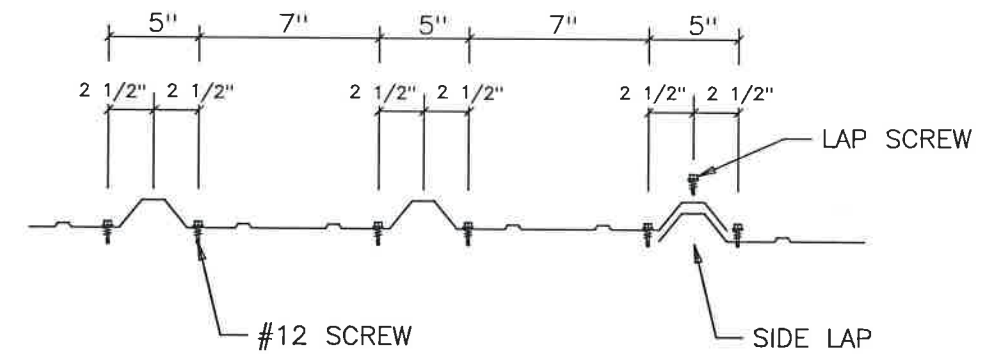
Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



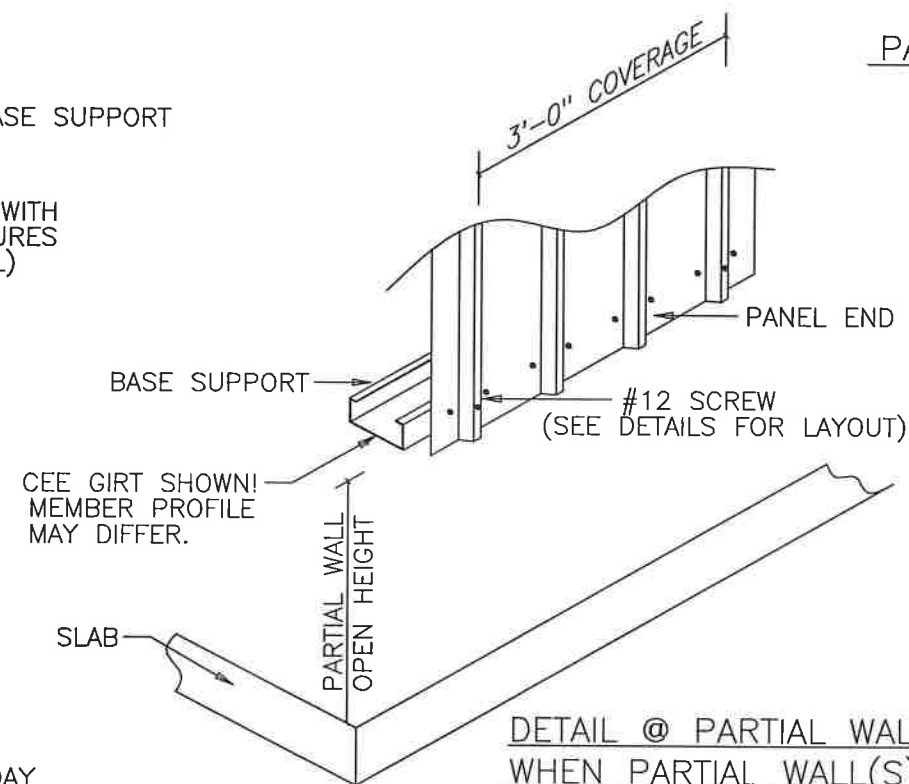
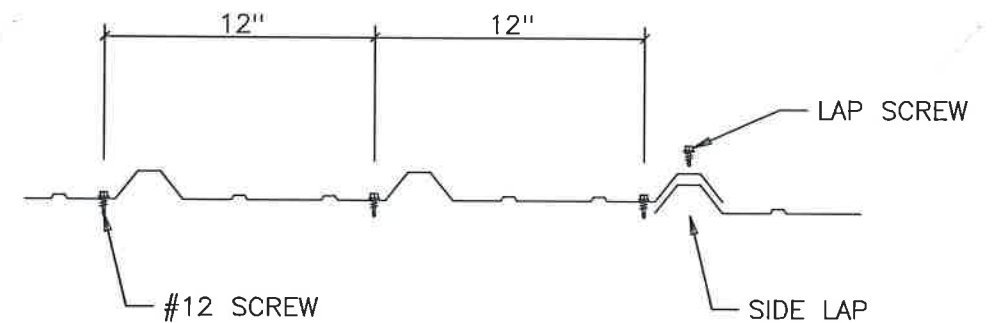
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL PANELS & TRIM			
DRAWING NO: PAGE 8	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



PANEL ATTACHMENT AT PANEL END
 (BASE, EAVE STRUT, HEADER, SILL, AND PANEL END LAPS)



PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



DETAIL @ PARTIAL WALL
WHEN PARTIAL WALL(S)
ARE PRESENT

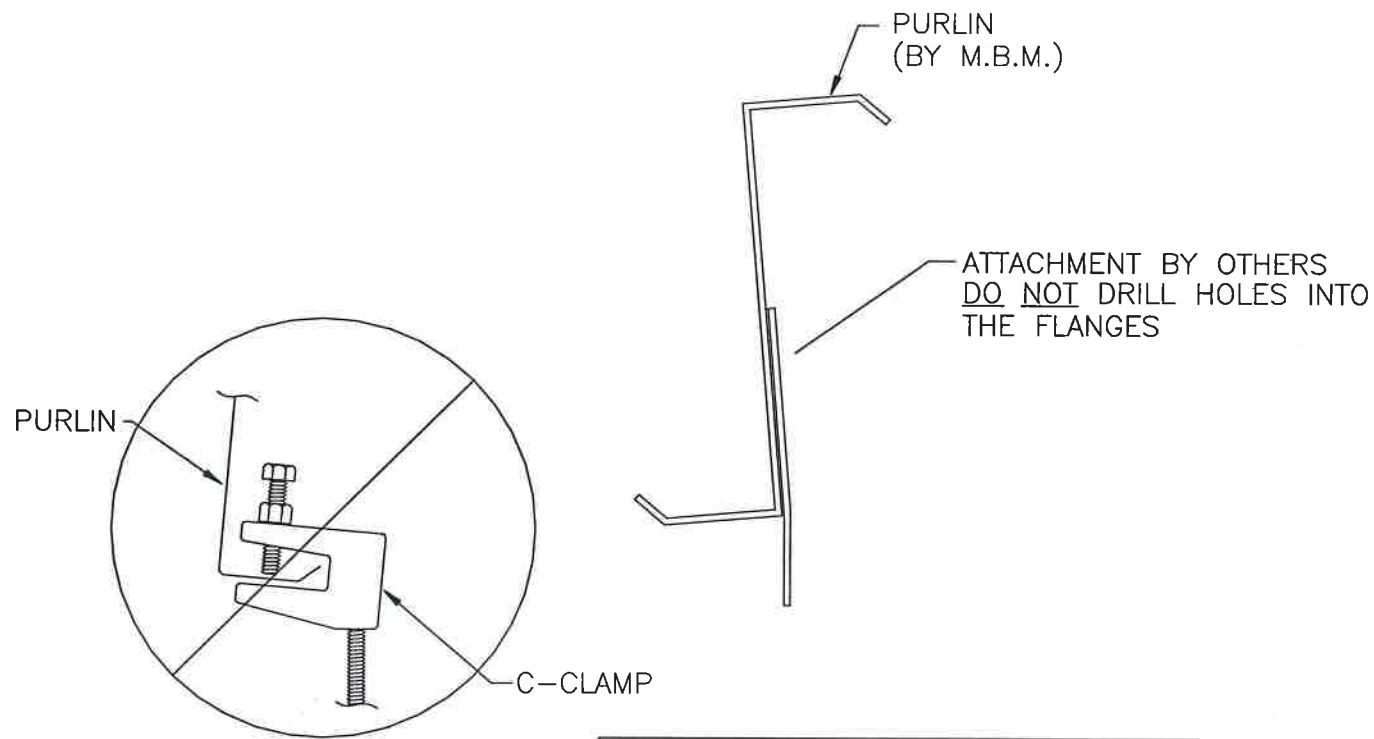
NOTES:

- [1] METAL SHAVINGS MUST BE SWEEPED FROM THE WALL EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
- [2] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE GIRTS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

Wayne Brad Baker, P.E.
 235 Sanders Rd.
 Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL PANEL DETAILS			
DRAWING NO: PAGE 8.1	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE



Flange C-Clamp is not an acceptable connection

NOTE: M.B.M. only provides the roof purlin. All other material and hardware is by others.

Recommended Connection Detail

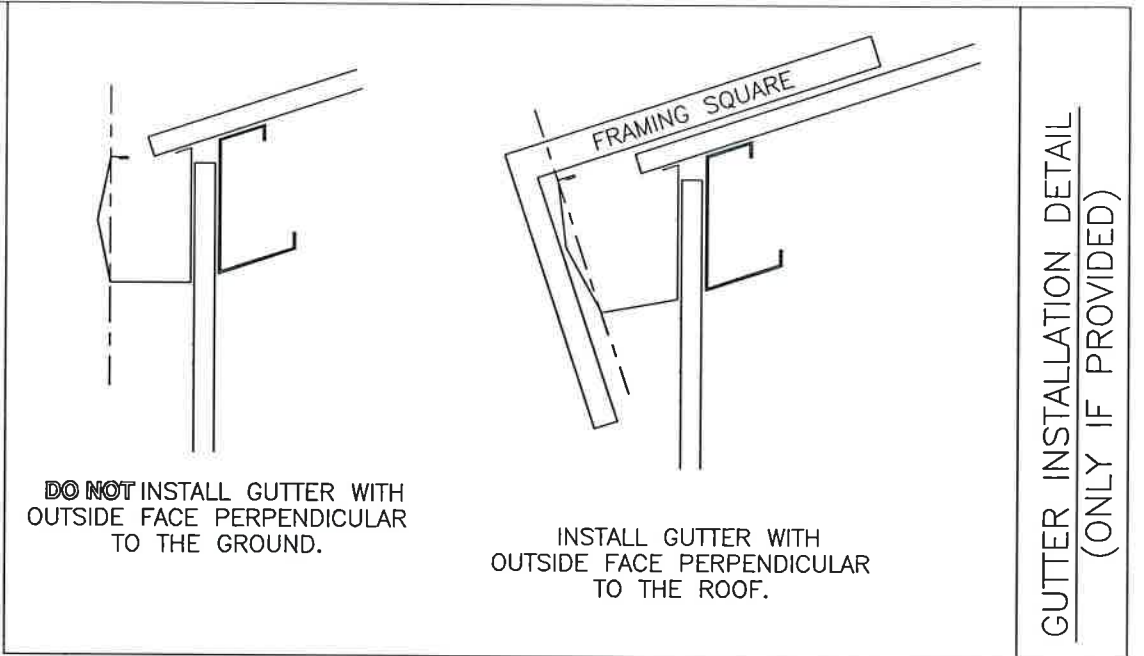
NOTE

MANY FACTORS BEYOND THE CONTROL OF THE METAL BUILDING SUPPLIER AFFECT THE ABILITY OF A PURLIN TO SAFELY SUPPORT HANGING LOADS COMBINED WITH OTHER REQUIRED ROOF LOADS. DUE TO THE VARIABLES INVOLVED IN HANGING LOADS AND THEIR ATTACHMENTS TO THE PURLINS, THE METAL BUILDING SUPPLIER CANNOT ASSURE THAT THE PURLINS FOR A PARTICULAR BUILDING PROJECT CAN SAFELY SUPPORT THE MAXIMUM ALLOWABLE HANGING LOADS IN COMBINATION WITH OTHER ROOF LOADS.

IT IS THE RESPONSIBILITY OF THE HANGER SYSTEM INSTALLER TO COORDINATE WITH THE ENGINEER OF RECORD FOR THE OVERALL PROJECT TO ENSURE A SAFE HANGING LOAD INSTALLATION. THE METAL BUILDING ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT. WITHOUT SPECIFIC CERTIFICATION FOR INDIVIDUAL HANGING LOADS, THE NET EFFECTS OF APPLIED HANGER LOADS INSTALLED ON A PARTICULAR PURLIN SHALL NOT EXCEED THE NET EFFECTS OF THE CERTIFIED UNIFORMLY APPLIED DESIGN COLLATERAL LOAD.

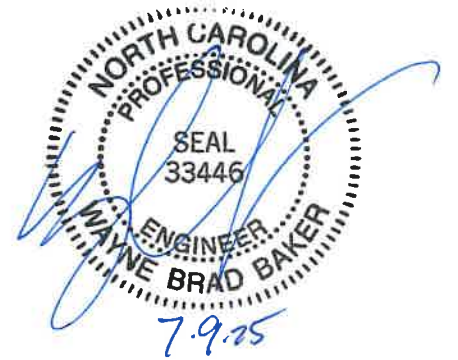
HANGING LOADS SHOULD NOT BE APPLIED TO THE PURLIN LIP. WHERE PERMISSIBLE, THE BEST PRACTICE FOR HANGING LOADS IS TO ATTACH TO THE PURLIN WEB USING A BOLT AND NUT, OR SELF-DRILLING SCREWS.

HANGING UNIFORM LOADS SUCH AS SPRINKLER MAINS OR HVAC EQUIPMENT SHOULD BE DISTRIBUTED OVER SEVERAL PURLINS, AND SHOULD NEVER EXCEED THE COLLATERAL LOAD ALLOWANCE FOR THE ROOF SYSTEM. FOR UNIFORM LOADS THAT RUN PARALLEL TO THE PURLINS, IT MAY BE NECESSARY TO USE TRANSVERSE SUPPORT CHANNELS(A.K.A. TRAPEZE BEAMS) ATTACHED TO THE WEBS OR FLANGES OF ADJACENT PURLINS TO SPREAD THE LOAD BETWEEN TWO OR MORE PURLINS. IN SUCH CASES, CONTACT THE BUILDING MANUFACTURER OR A LOCAL PROFESSIONAL ENGINEER PRIOR TO ATTEMPTING TO HANG LOADS FROM THE PURLINS



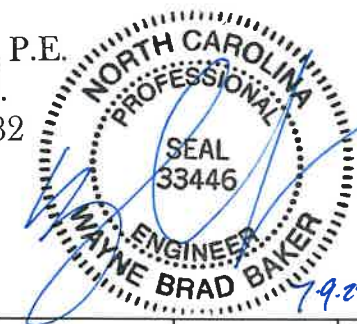
GUTTER INSTALLATION DETAIL
(ONLY IF PROVIDED)

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

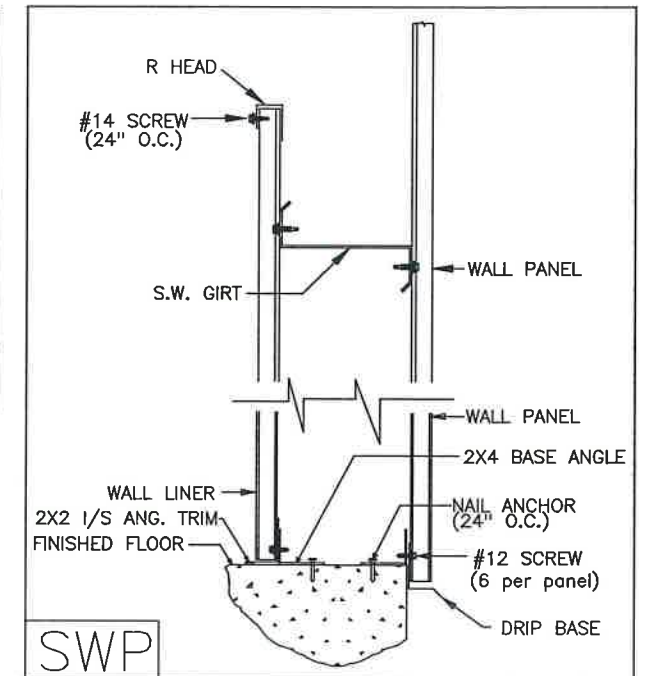
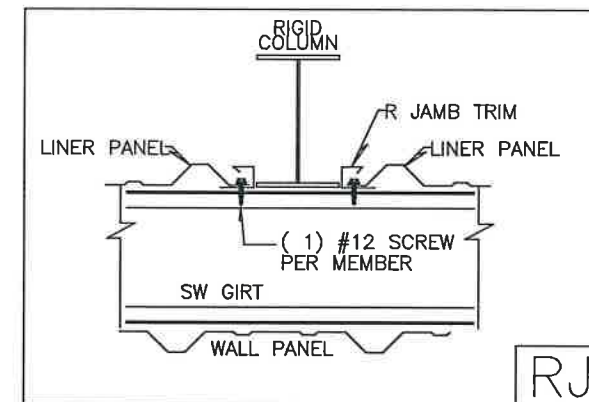
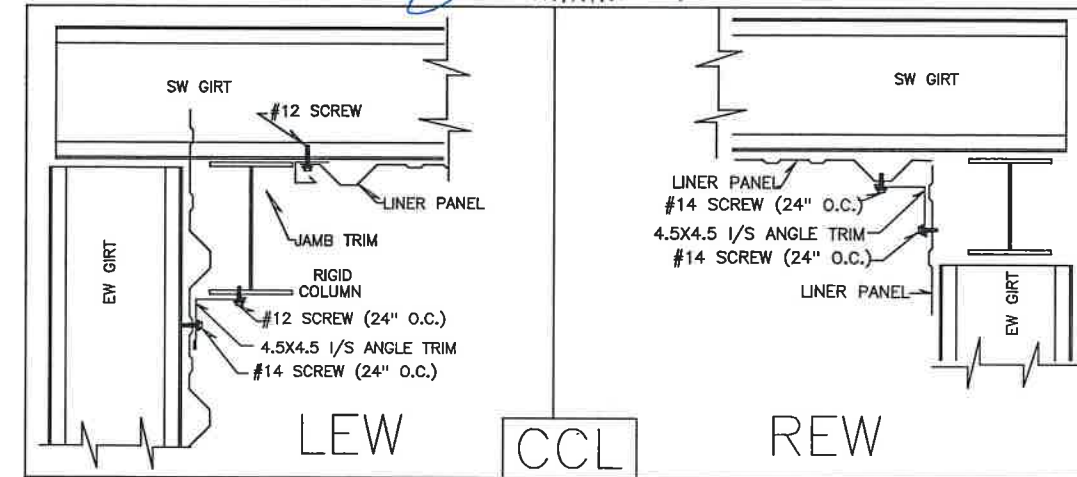
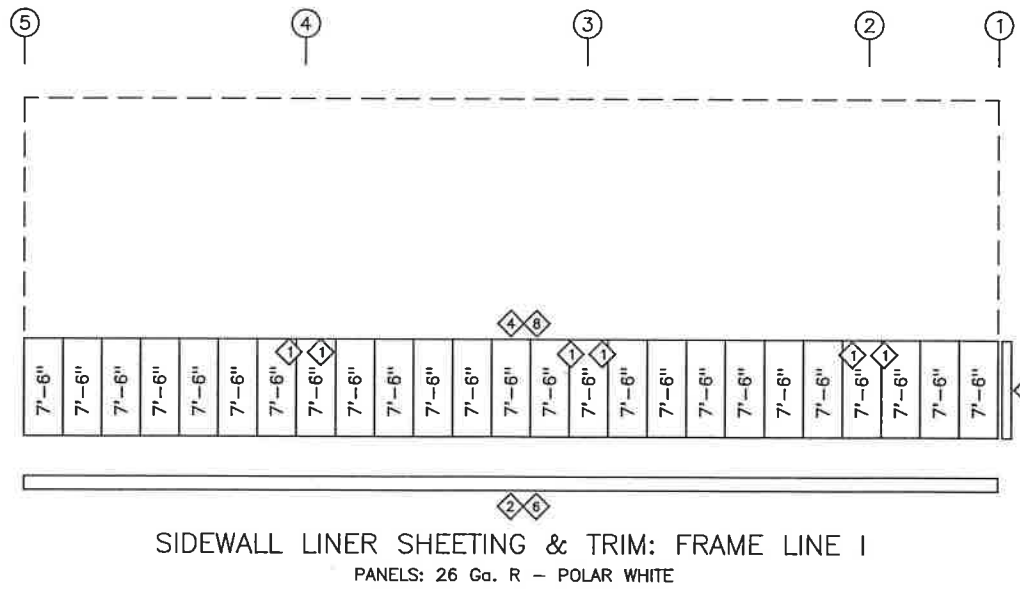
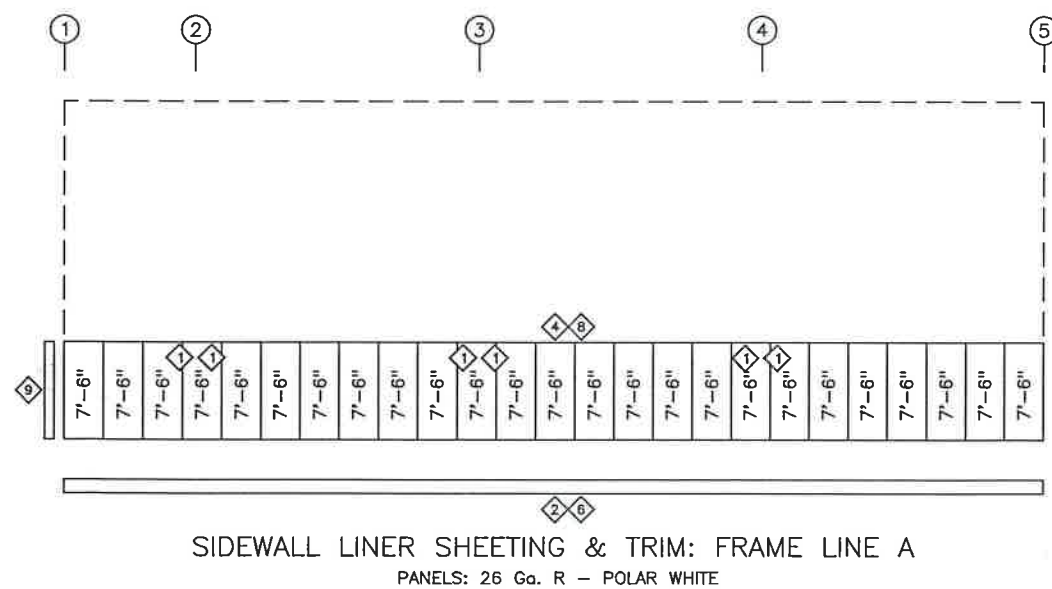
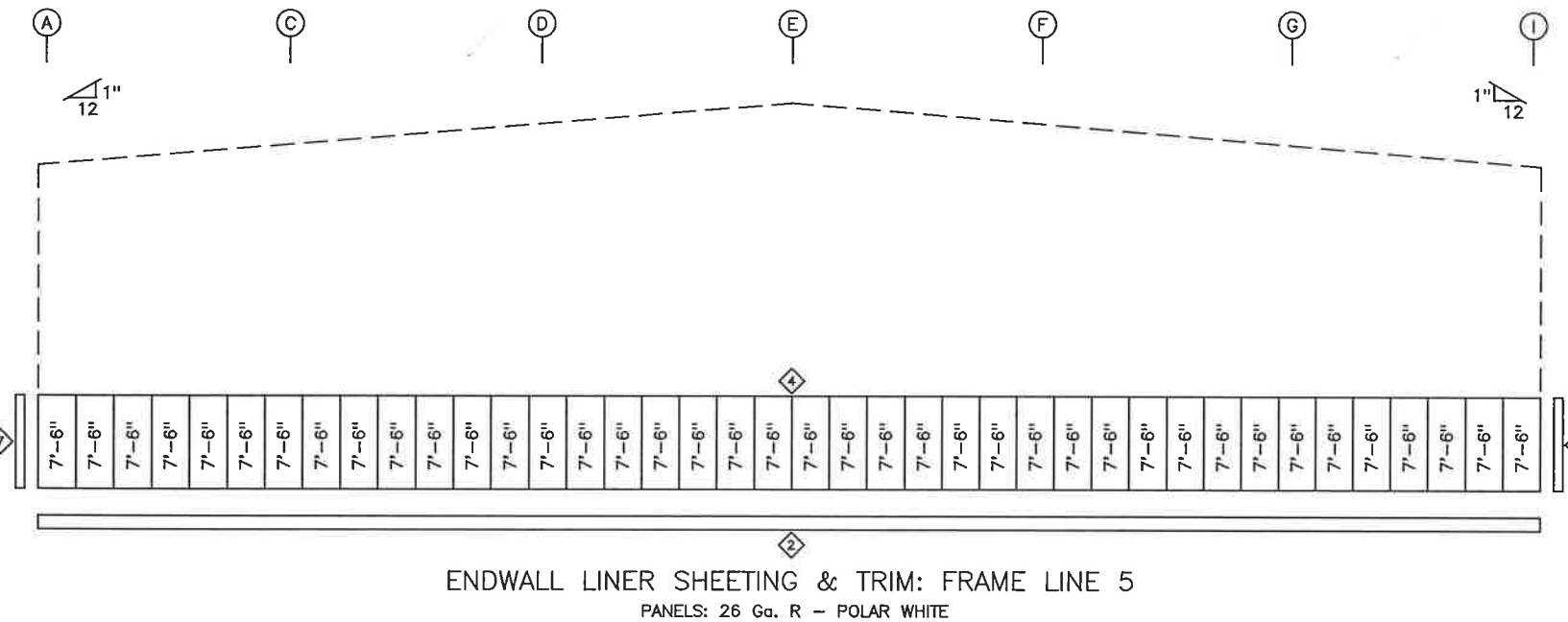
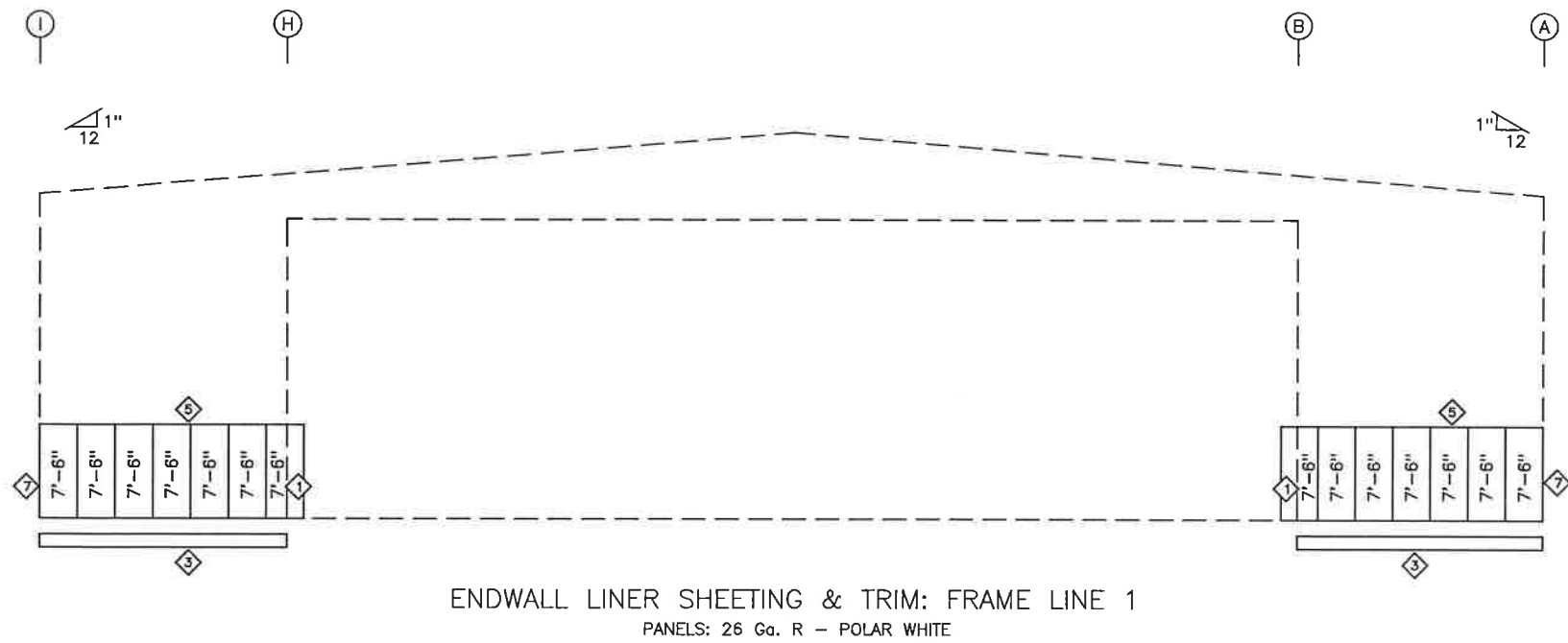


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SPECIAL DETAILS			
DRAWING NO: PAGE 9	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



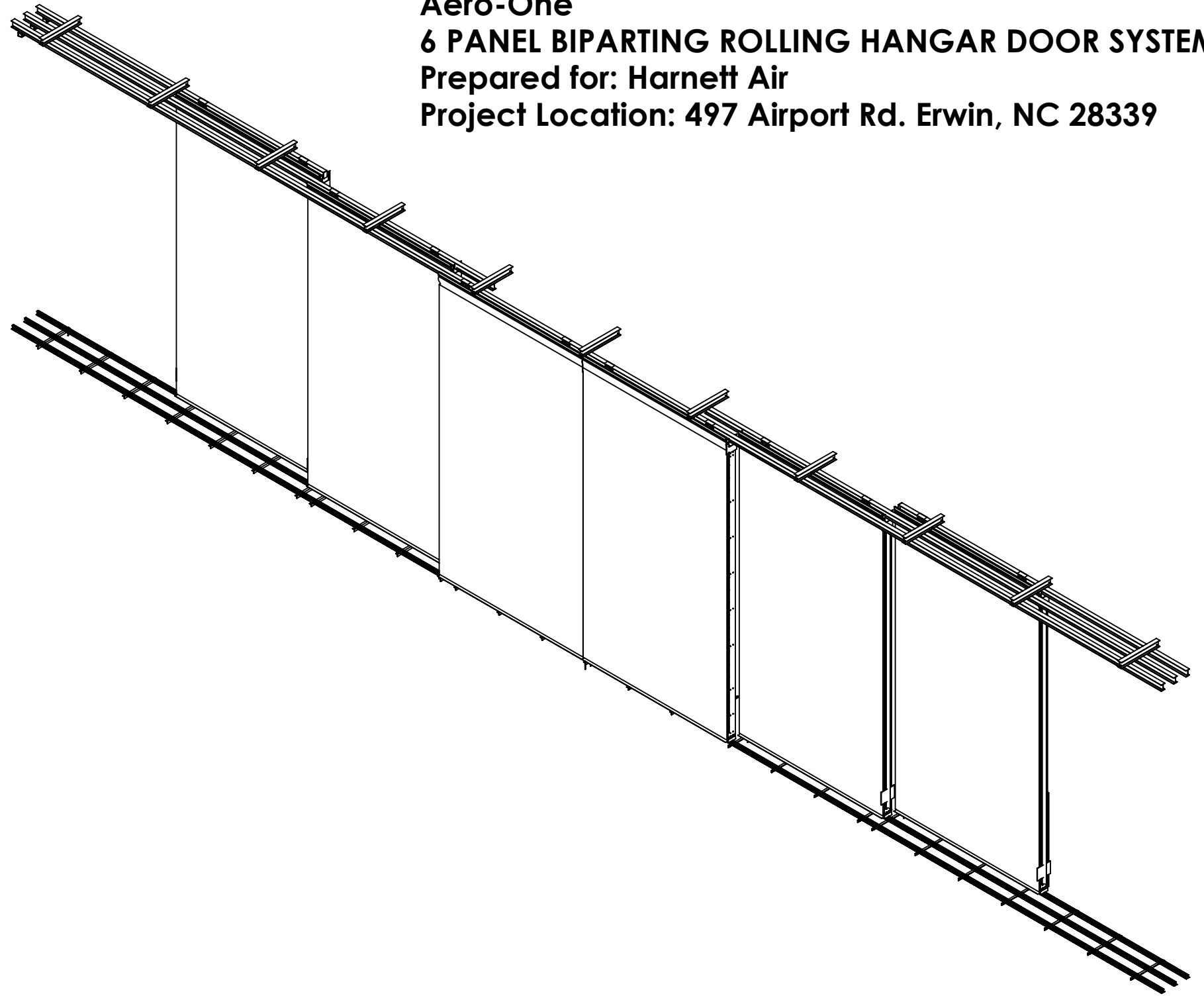
TRIM TABLE FRAME LINE 1 A 5 J			
ID	PART	LENGTH	DETAIL
1	R JAMB	7'-9"	RJ
2	2x2 1/S	20'-3"	SWP
3	2x2 1/S	19'-11"	SWP
4	R HEAD	20'-3"	SWP
5	R HEAD	19'-11"	SWP
6	2x2 1/S	15'-3"	SWP
7	4.5x4.5 1/S	7'-9"	CCL
8	R HEAD	15'-3"	SWP
9	R JAMB	7'-9"	CCL



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 9277	DATE: 7/01/25		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: LINER SHEETING & TRIM			
DRAWING NO: PAGE 10	DRAWN BY: JTS	CHECKED BY: RAW	SCALE: NONE

S-1	Cover Page
S-2	Specifications
S-3	Open Position
S-4	Closed Position
S-5	Rail
S-6	Top Track
S-7	Panel Cutsheet
S-8	Section View
S-9	Details 1
S-10	Details 2
S-11	Details 3
S-12	Electrical Details 1
S-13	Electrical Details 2

Aero-One
6 PANEL BIPARTING ROLLING HANGAR DOOR SYSTEM
 Prepared for: **Harnett Air**
 Project Location: **497 Airport Rd. Erwin, NC 28339**



OUTSIDE LOOKING IN



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS
 DRAWING IS THE SOLE PROPERTY OF WBI.
 ANY REPRODUCTION IN PART OR AS A
 WHOLE WITHOUT THE WRITTEN PERMISSION
 OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG. APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Project :Harnett Air

Location : 497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

Title :Cover Page

Project No:25020

DWG. NO.
S- 1

SPECIFICATIONS:

STRUCTURAL PANELS

Door Panel Sections Are Bolted In Connection. Depending On Manufacturer. System Will Require Grade (5), 1/2"-13 x 1-3/4" Bolts And Nuts For Assembly.

Assembly Clips For Connections.

Panels Will Be Straight And Square In All Directions To Within 1/8" On 20' As A Standard.

(ASTM A992) Structural Stiles And Girts
 (ASTM A500 Grade C) Structural Tubing
 (ASTM A572 Grade 50) Leveling Angles
 (ASTM A653 SS GR 55) Cold Form CEEs
 Panels Are Comprised of Hot-Rolled Framing Sections And Light Gauge Girts.

Color is as per signed sales order (RED OXIDE)

(2) Tractor Pulls Total

Pick-up Bars On Panels Allow Them To Interconnect As The Drive Panel Begins Forward Or Reverse Motion.

RAIL AND IDLE WHEELS

(12) ϕ 9" Machined Solid Steel Casters With Timken Tapered Roller Bearings. (2) Idle Casters Per Panel. Casters Include Dust Seals And Grease Fittings.

Caster Housings Are Made From Plate Steel.

Bottom Casters To Be Designed For Removal And Maintenance Without Removing The Panel.

30lb/yrd ASCE Rail With Leveling Angle Provided As A Bottom Track For 6 Panel Biparting System.

TOP TRACK AND TOP GUIDES

(12) Total WBI Telescoping Top Guide Assemblies.
 (2) Top Guides Per Panel.

W6x9 Top Track provided by WBI.
 Carrier beams and clips provided and installed by others.

WEATHER SEAL

All Weather Seals, Brushes, Sheeting Installed By Others.
 Weather seal material: EPDM

12"x1/8" EPDM Outer Vertical Weather Seal
 12"x1/16" EPDM Middle Vertical Weather Seal
 6"x1/8" EPDM Intermediate Vertical Weather Seal
 4"x1/8" EPDM Bottom Weather Seal
 18"x1/16" EPDM Top Weather Seal
 5' Runs of 1/8" Retainer Strip for Top EPDM Weather Seal
 3" Bottom Brush Sweep With Brush Holder
 3" Top Brush Sweep With Brush Holder

SHEETING

System designed while accounting for 1-1/2" exterior sheeting and 1-1/4" partial interior sheeting.
EXTERIOR SHEETING, INSULATION, SOFFIT AND TRIM PROVIDED AND INSTALLED BY OTHERS
ENSURE PANELS ARE SQUARE BEFORE APPLYING SHEETING

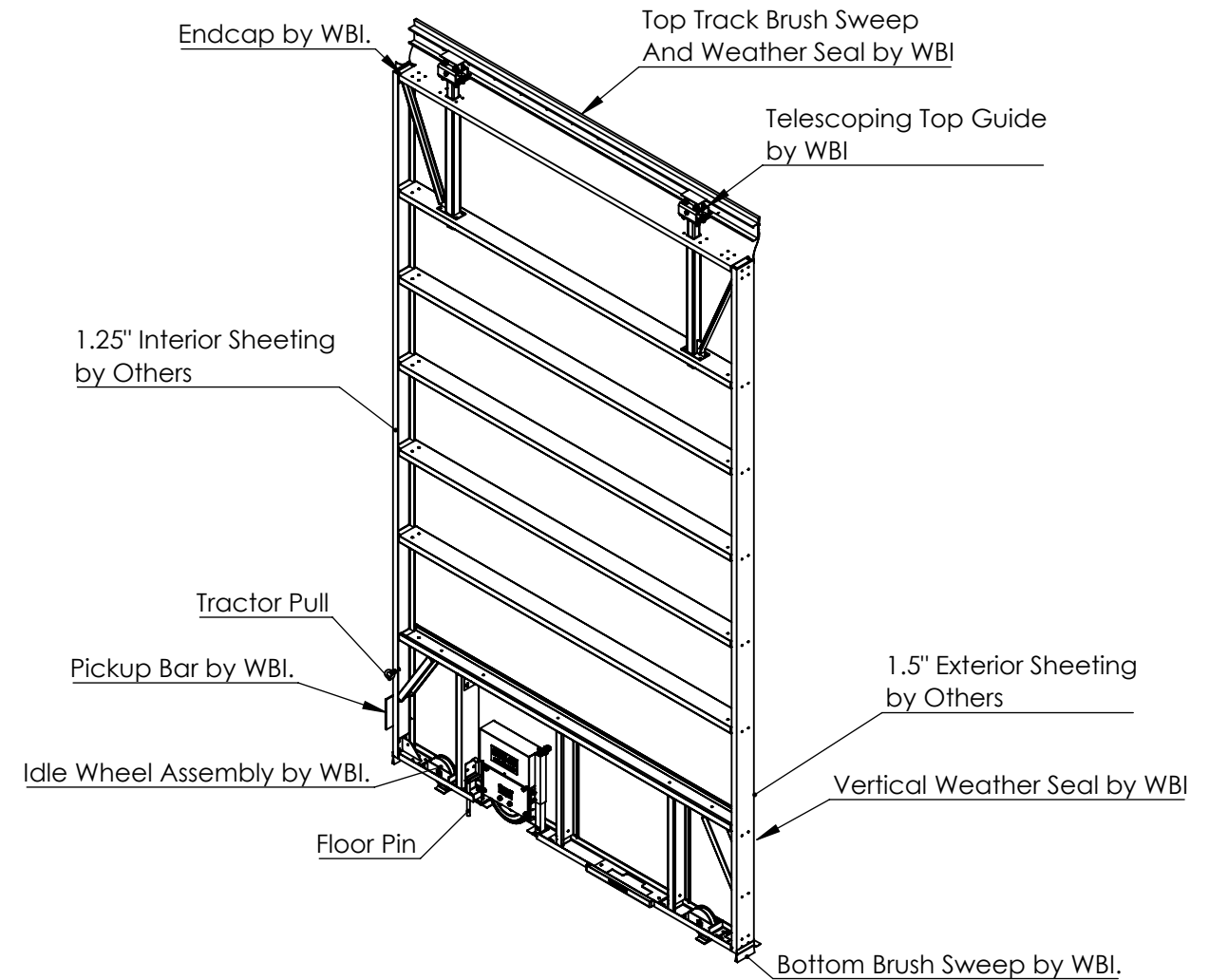
ELECTRICAL DETAILS

(2) 250 Series Operator
 208V 1 Phase Power 60Hz
 Manual
 (100') 12/4 Drape Cable

Design Criteria

Ultimate Wind Speed: 115 MPH
 Exposure Category: "C"
 Building Category: "Enclosed"
 Risk Category: II
 Ultimate Wind Pressures: +24 psf/ -26 psf

THIS STRUCTURE HAS BEEN DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY IBC-15
 NOTE: Ultimate wind pressures multiplied by 0.6 for allowable stress design, per ASCE 7-16, Section 2.4



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

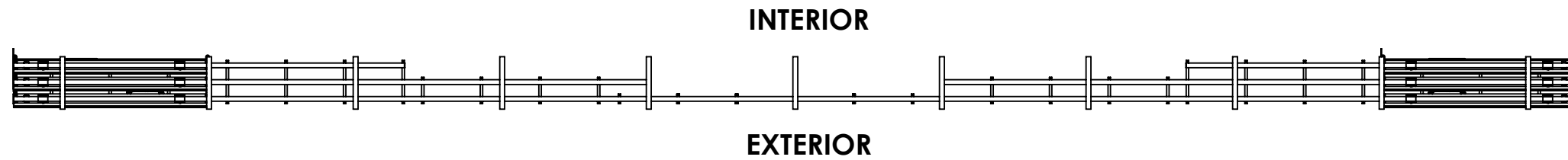
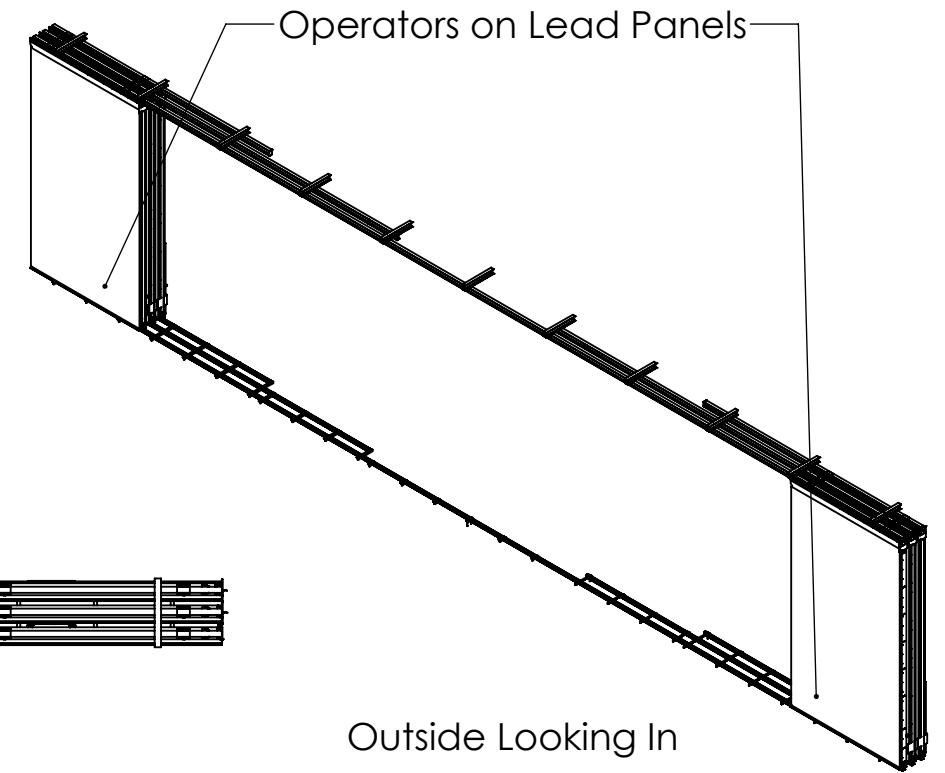
Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

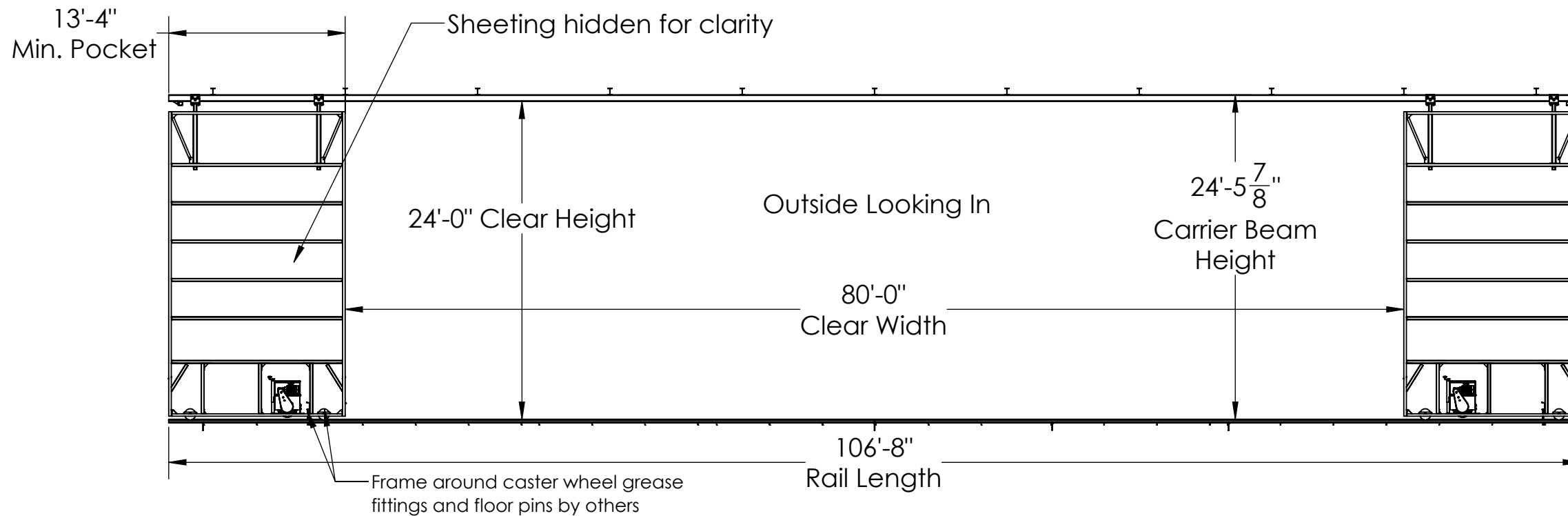
Project :Harnett Air
 Location :497 Airport Rd. Erwin, NC 28339
 Customer :Robert Ostendorf
 Title :Specifications
 Project No:25020

DWG. NO. S- 2

OPEN POSITION



Outside Looking In



WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Project :Harnett Air

Location :497 Airport Rd. Erwin, NC 28339

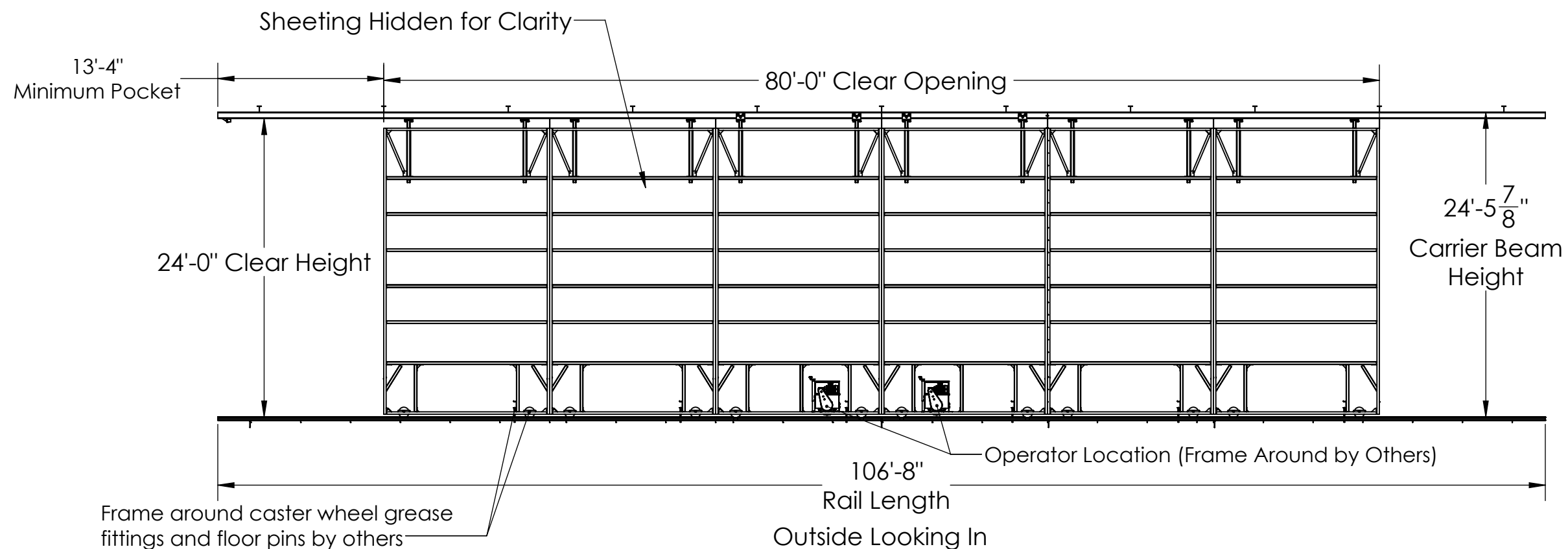
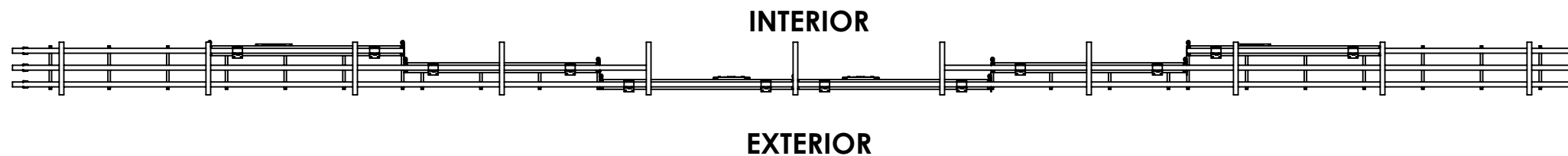
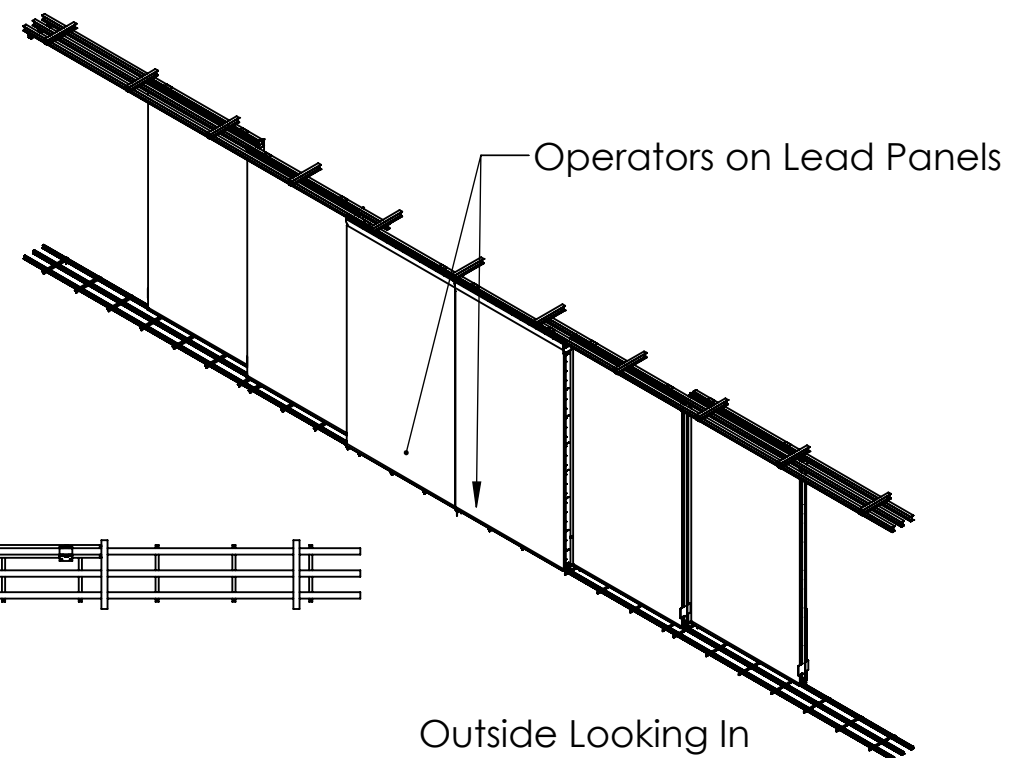
Customer :Robert Ostendorf

Title :Open Position

Project No:25020

DWG. NO. S- 3

CLOSED POSITION



WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Project :Harnett Air

Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

Title :Closed Position

Project No:25020

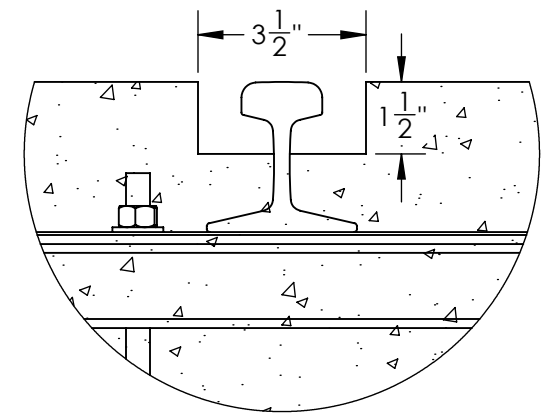
DWG. NO. S- 4

ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	1	30 LBS/ YARD ASCE RAIL	106'-8"
2	2	30 LBS/ YARD ASCE RAIL	40'
3	2	30 LBS/ YARD ASCE RAIL	26'-8"
4	16	L2x2x0.25	8"
5	8	L2x2x0.25	1'-9 3/4"
6	14	L2x2x0.25	2'-11 1/2"

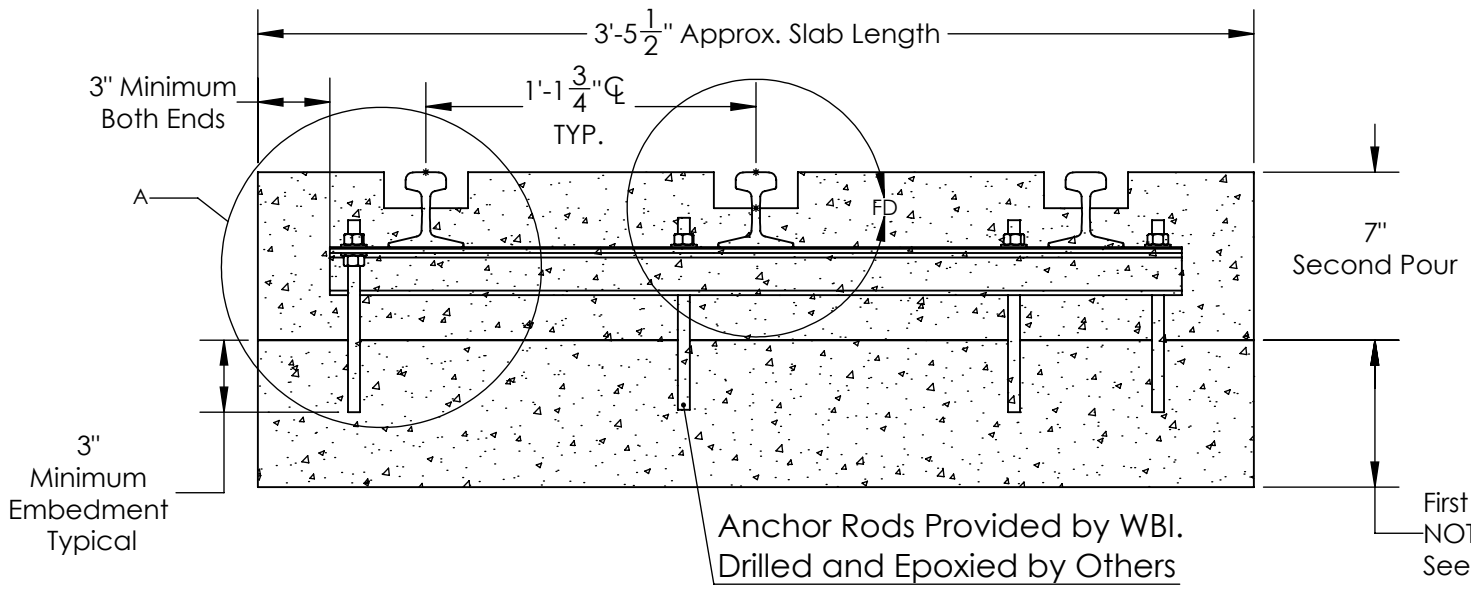
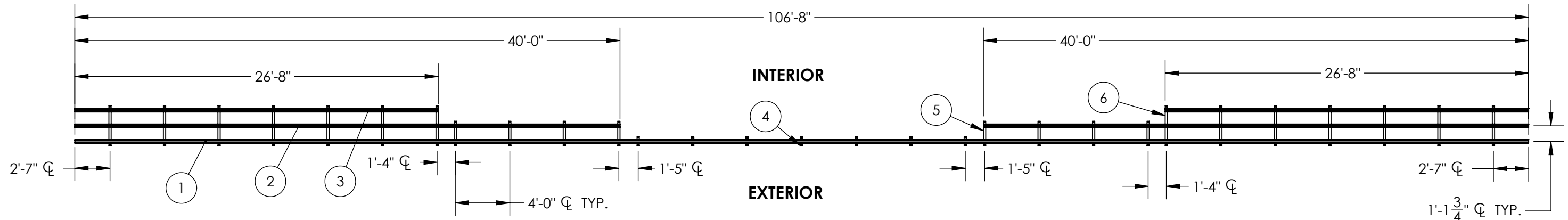
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
H1	76	MPAT0808	1/2-13 Threaded Rod, Plain, 8" Long
H2	152	HDWHN08	1/2" -13 Hex Nut
H3	152	HDWSA08	1/2" Flat Washer

NOTE:

Concrete contractor to ensure finish floor flush with rail and level throughout opening.
WBI is not responsible for design of concrete foundation.

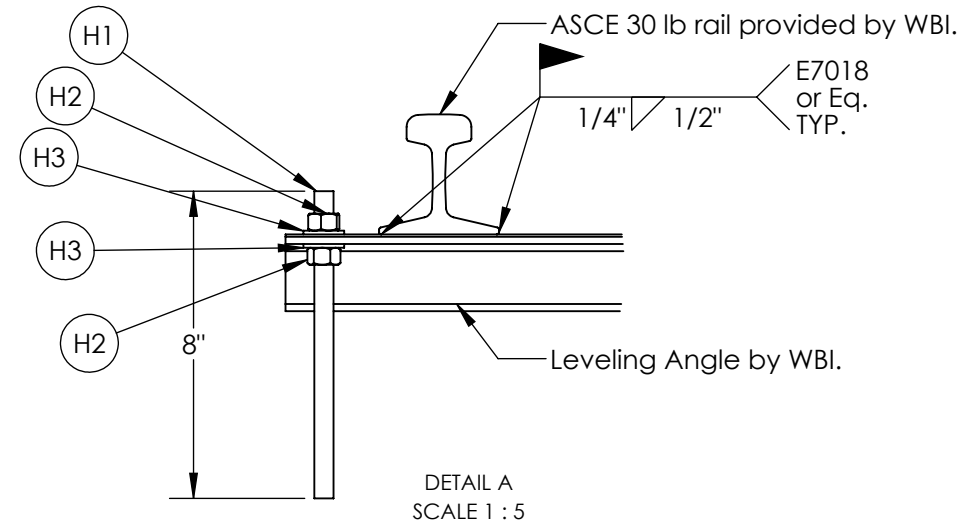


DETAIL FD
SCALE 1 : 4



Anchor Rods Provided by WBI.
Drilled and Epoxied by Others

First Concrete Pour
NOTE: Footing extends beyond shown detail.
See foundation plan for more details.



DETAIL A
SCALE 1 : 5



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

Project :Harnett Air

DESIGN DWG:KHALIL S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 7/7/2025

Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

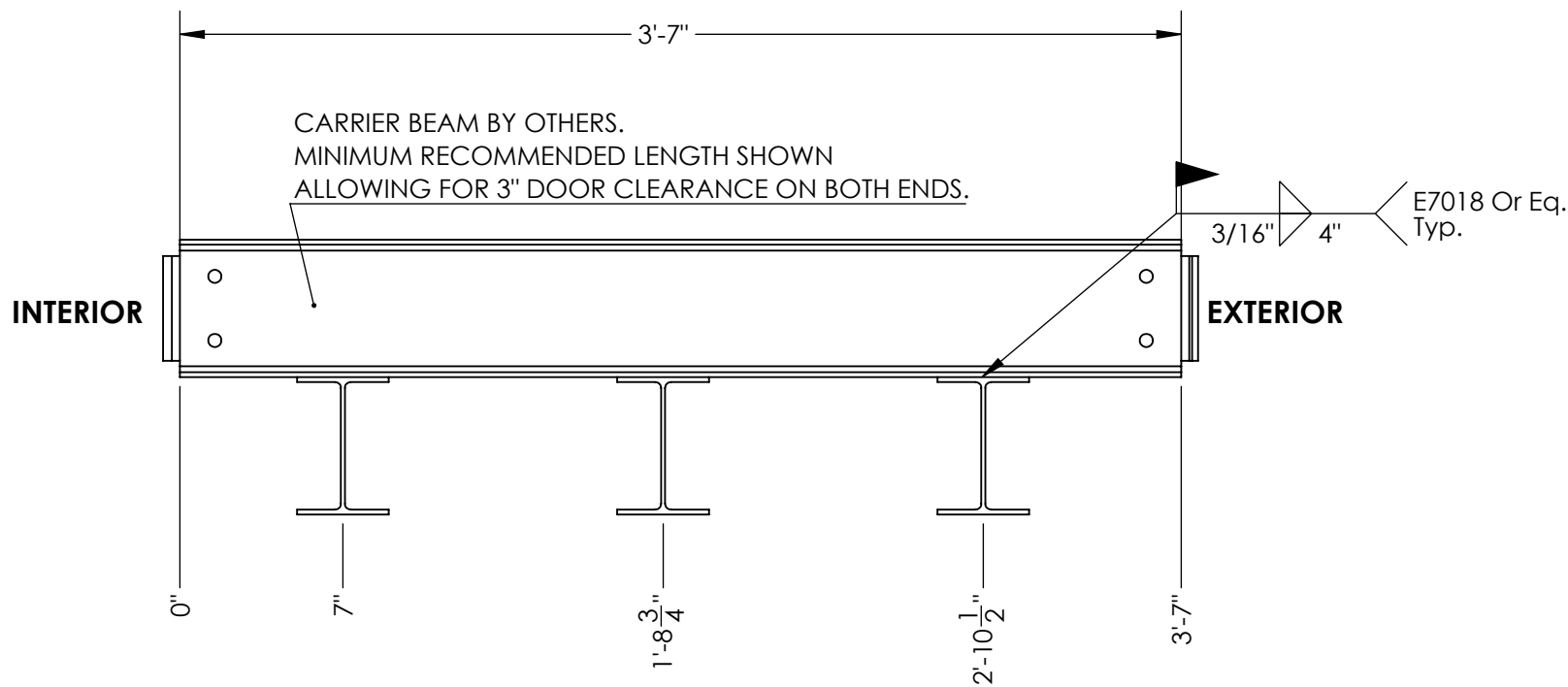
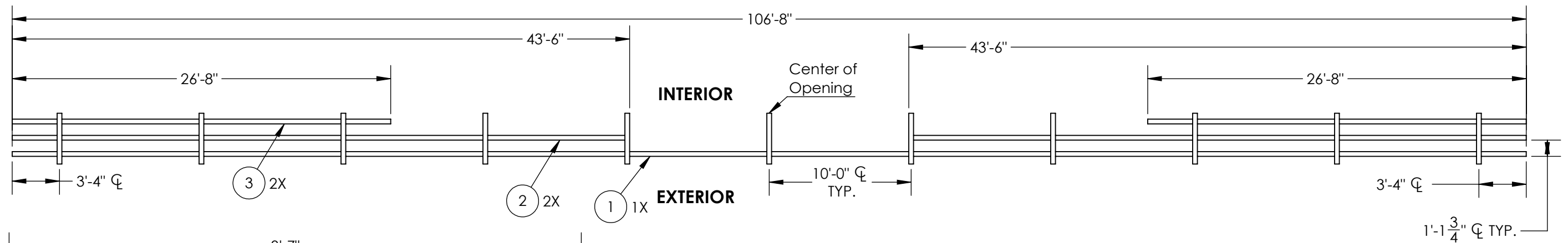
Title :Rail

Project No:25020

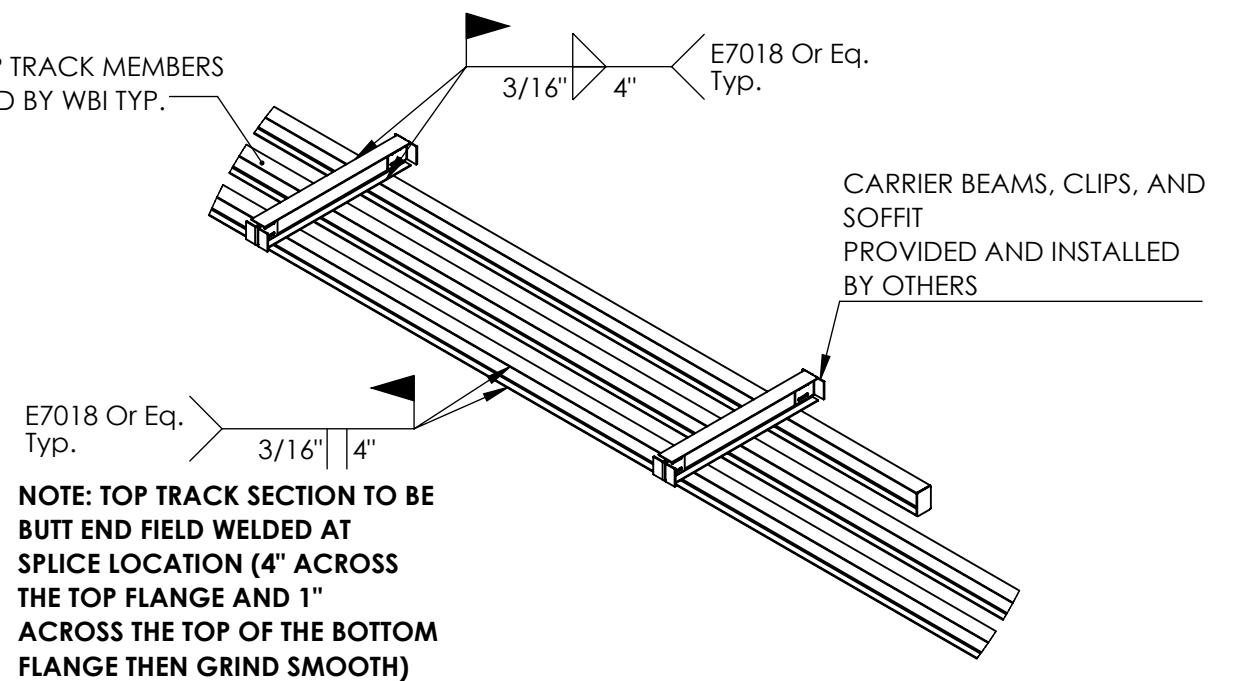
DWG. NO.
S- 5

ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	1	W6x9	106'-8"
2	2	W6x9	43'-6"
3	2	W6x9	26'-8"

TOP TRACK WEIGHT (ESTIMATED) = 2,275 lbs



ALL TOP TRACK MEMBERS SUPPLIED BY WBI TYP.



NOTE: TOP TRACK SECTION TO BE BUTT END FIELD WELDED AT SPLICE LOCATION (4" ACROSS THE TOP FLANGE AND 1" ACROSS THE TOP OF THE BOTTOM FLANGE THEN GRIND SMOOTH)

TYPICAL W6X9 TOP TRACK WELDING DETAILS



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 7/7/2025

Project :Harnett Air

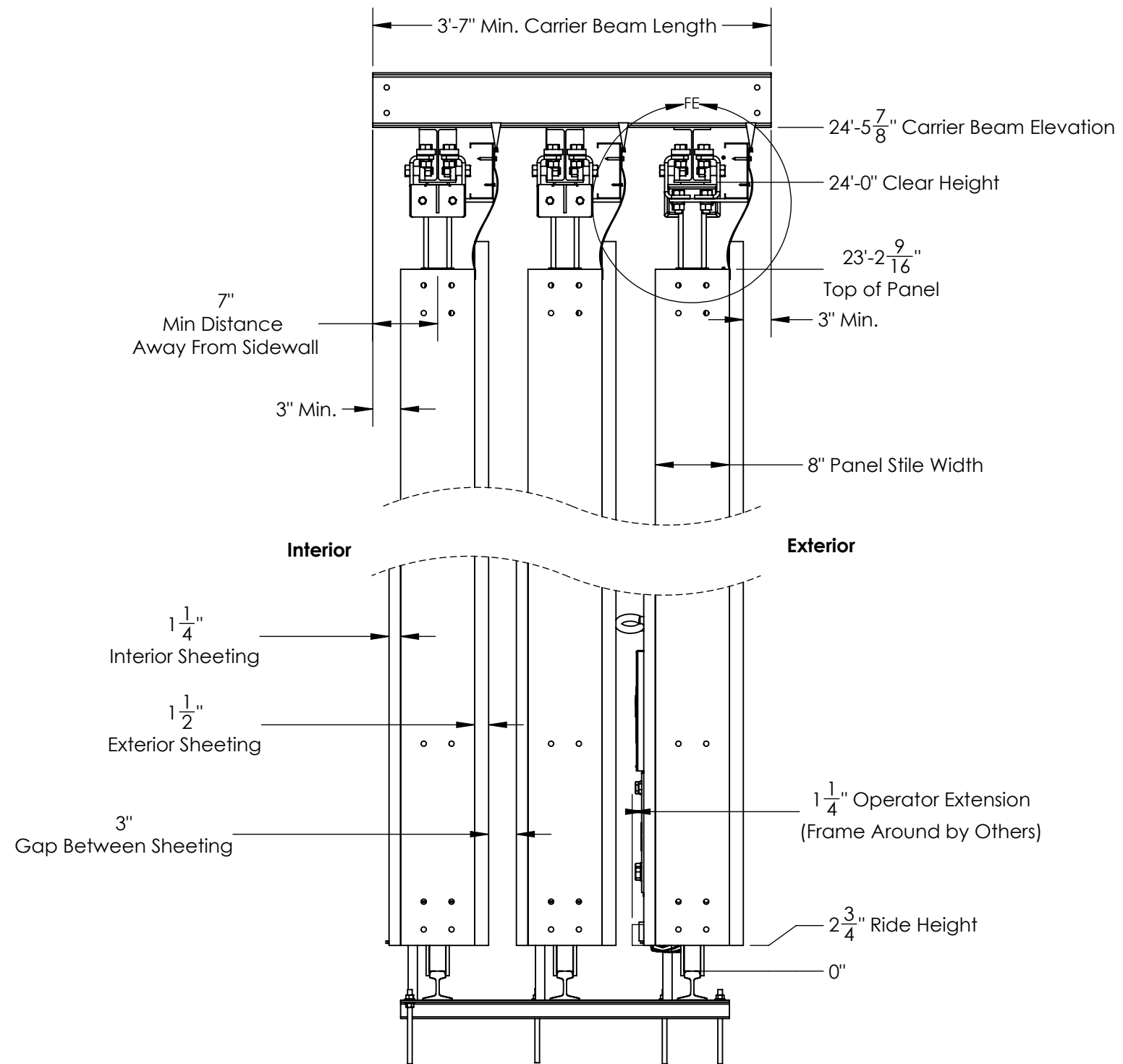
Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

Title :Top Track

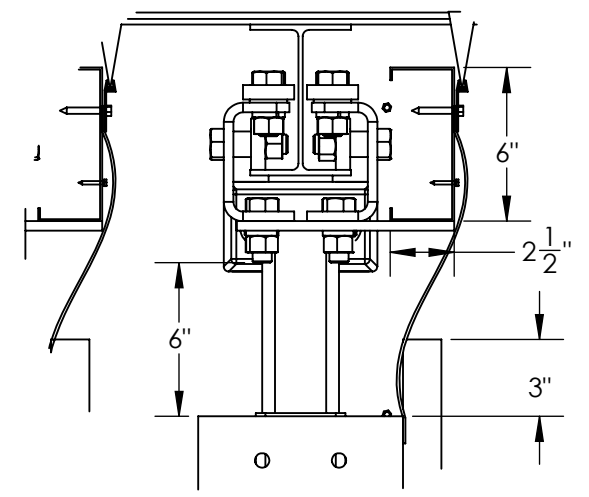
Project No:25020

DWG. NO.
S- 6



SYSTEM DEFLECTION TOLERANCES

3" Upward Deflection
6" Downward Deflection



DETAIL FE
SCALE 2 : 15

Note: Weather Seal Removed For Clarity



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 7/7/2025

Project :Harnett Air

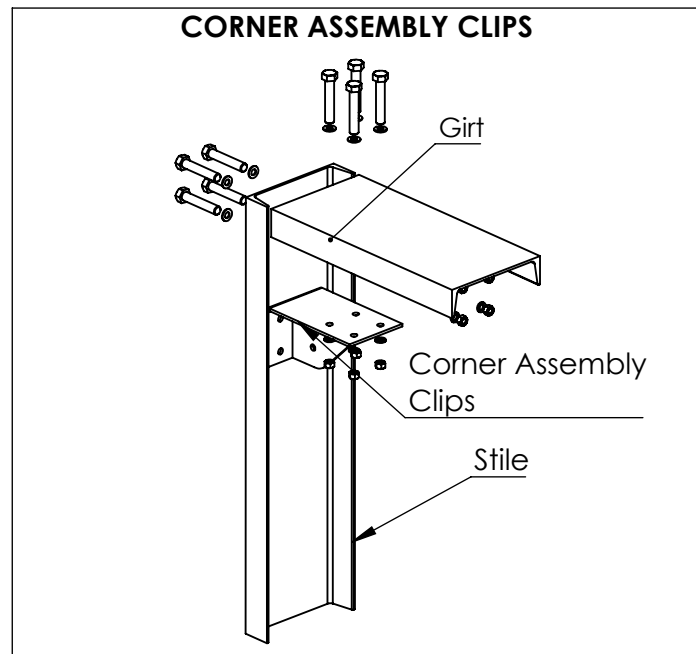
Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

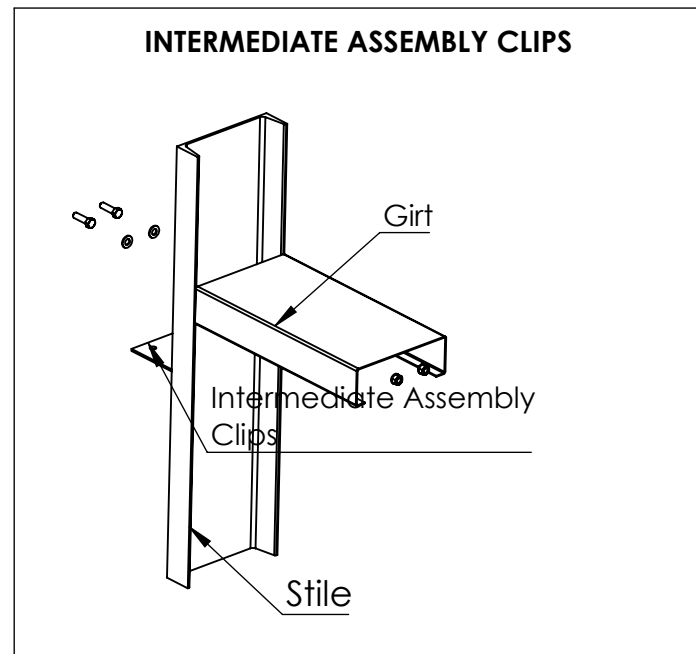
Title :Section View

Project No:25020

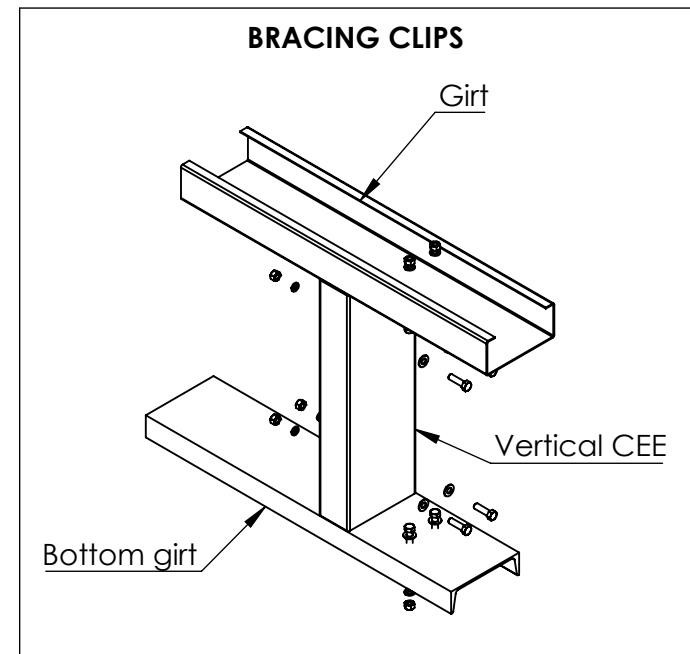
DWG. NO. S- 8



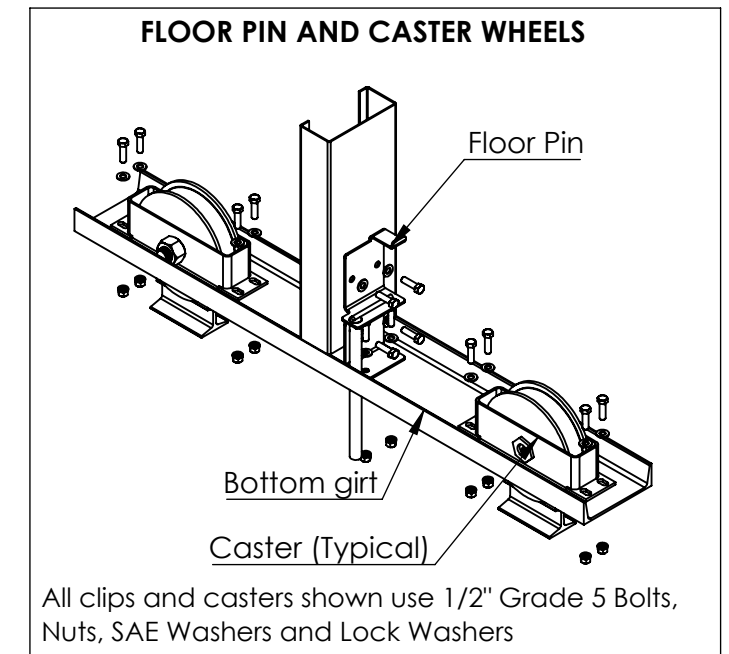
DETAIL 1



DETAIL 2

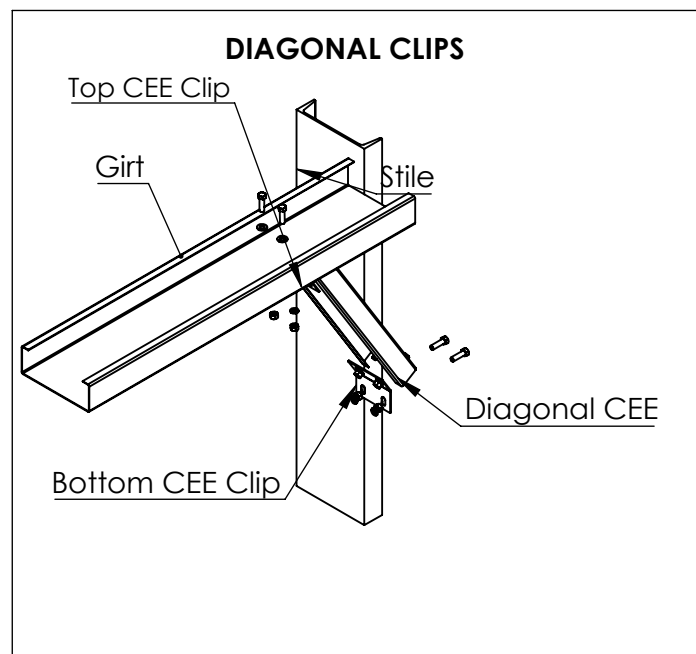


DETAIL 3

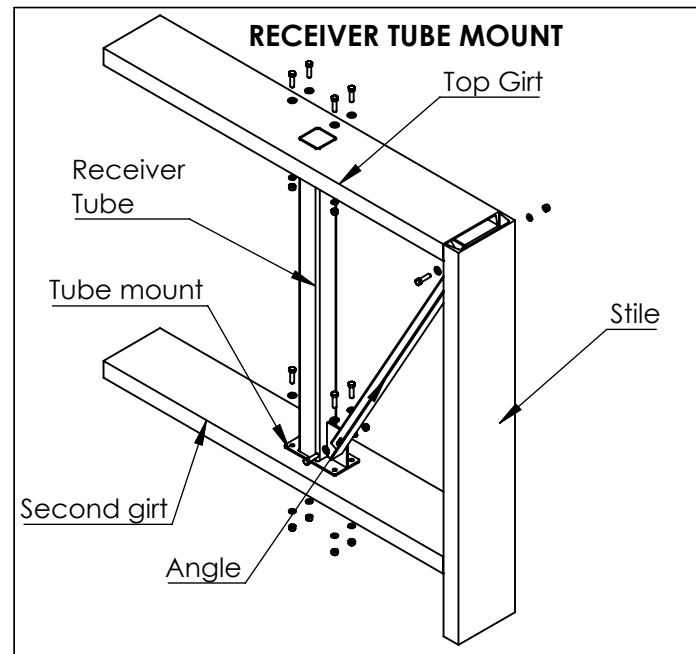


DETAIL 4

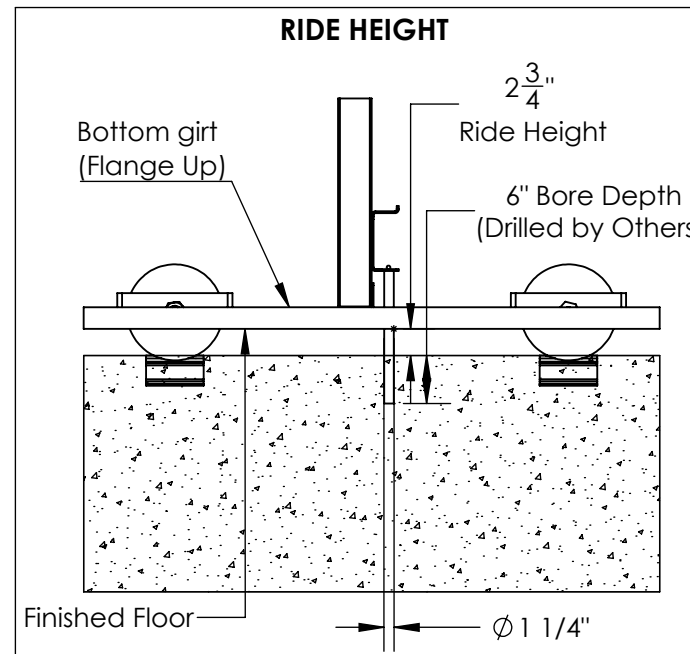
All clips and casters shown use 1/2" Grade 5 Bolts, Nuts, SAE Washers and Lock Washers



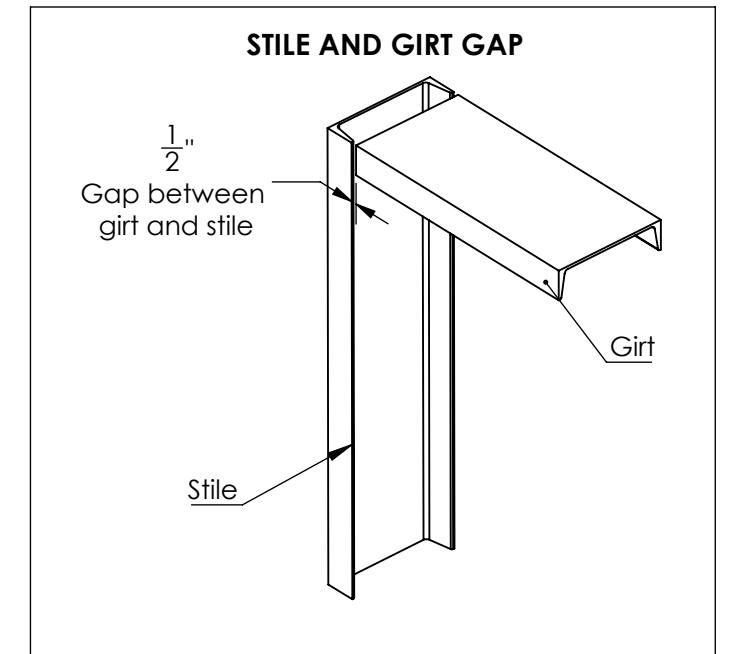
DETAIL 5



DETAIL 6



DETAIL 7



DETAIL 8

WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Project : Harnett Air

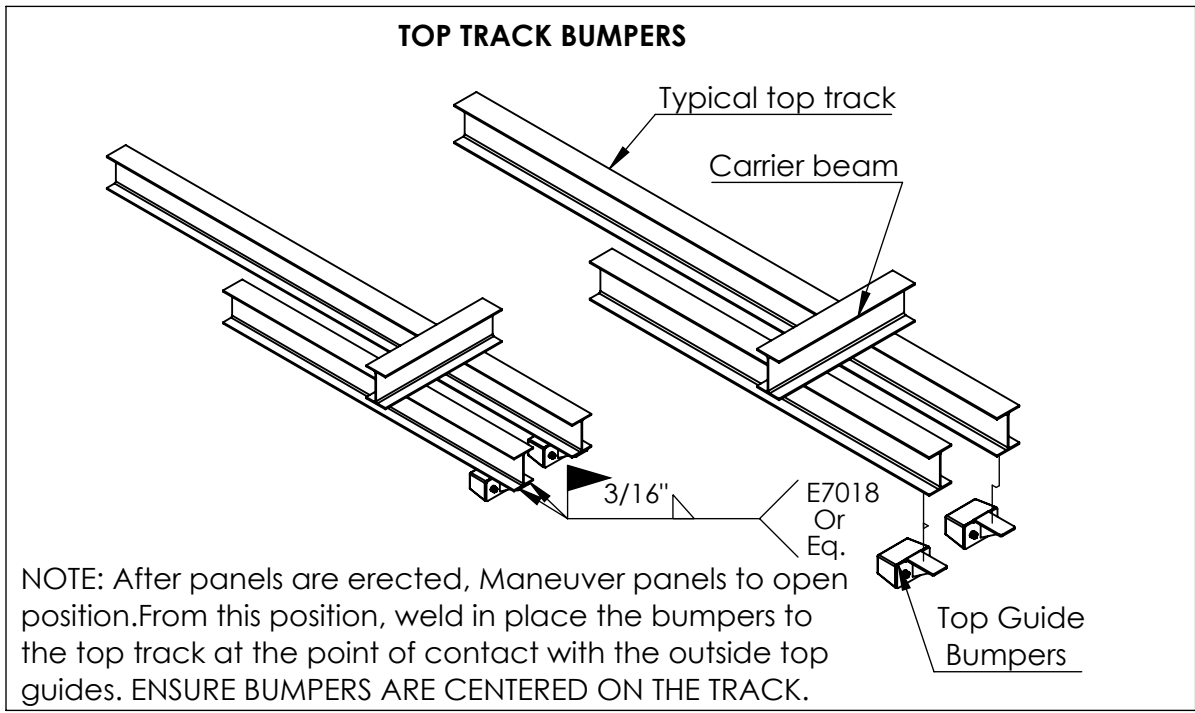
Location : 497 Airport Rd. Erwin, NC 28339

Customer : Robert Ostendorf

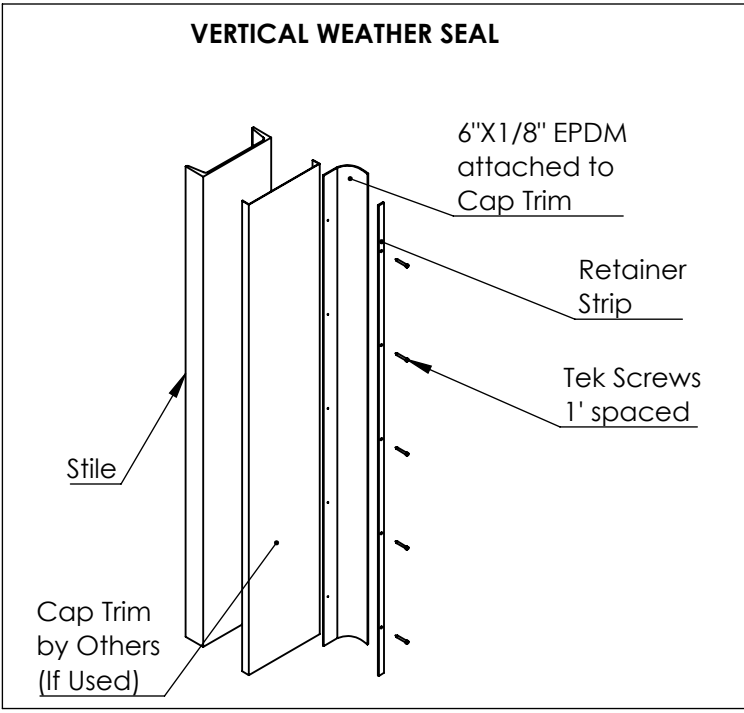
Title : Details 1

Project No: 25020

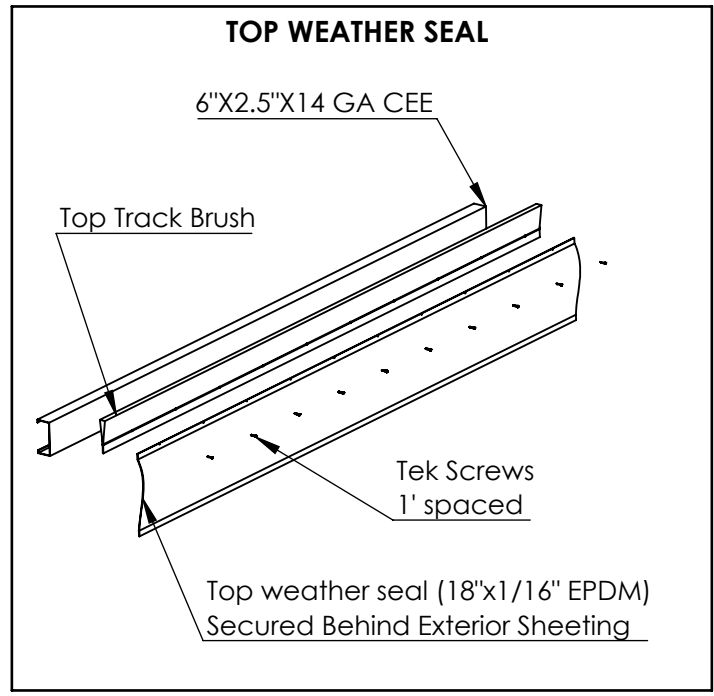
DWG. NO.
 S-9



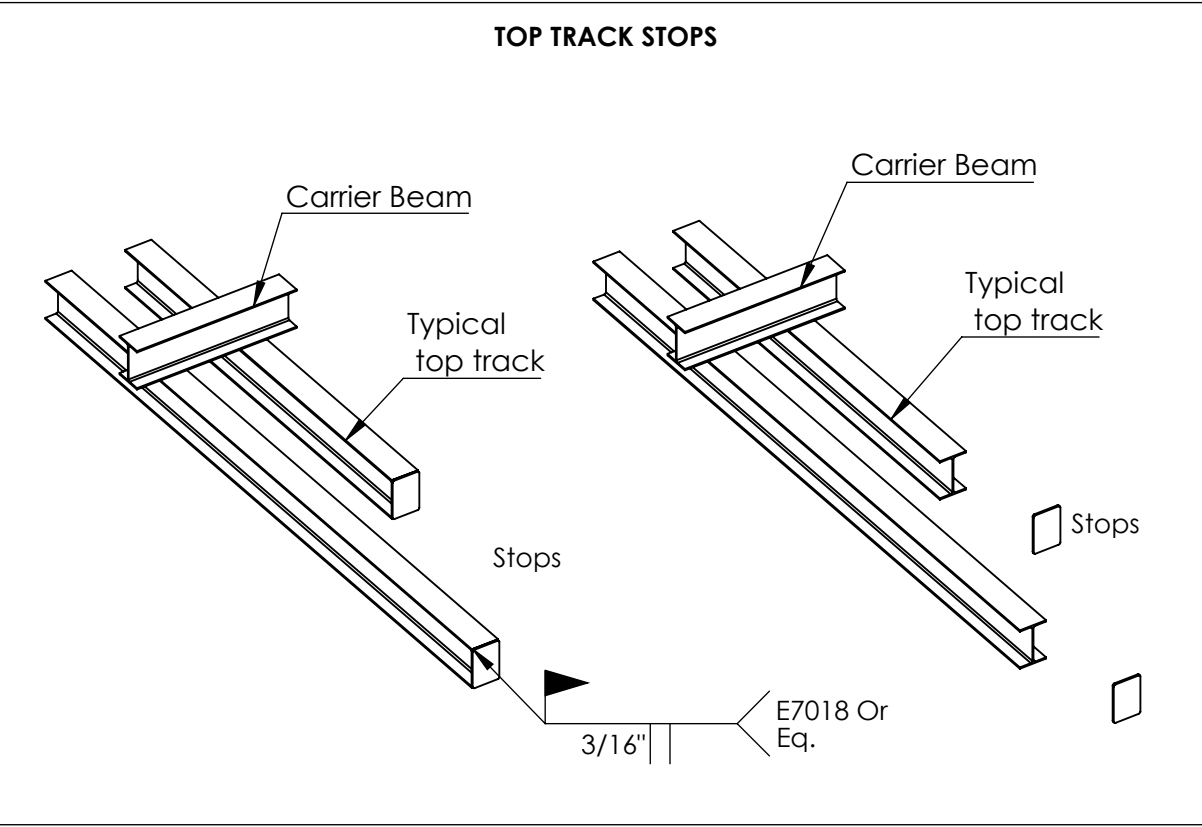
DETAIL 9



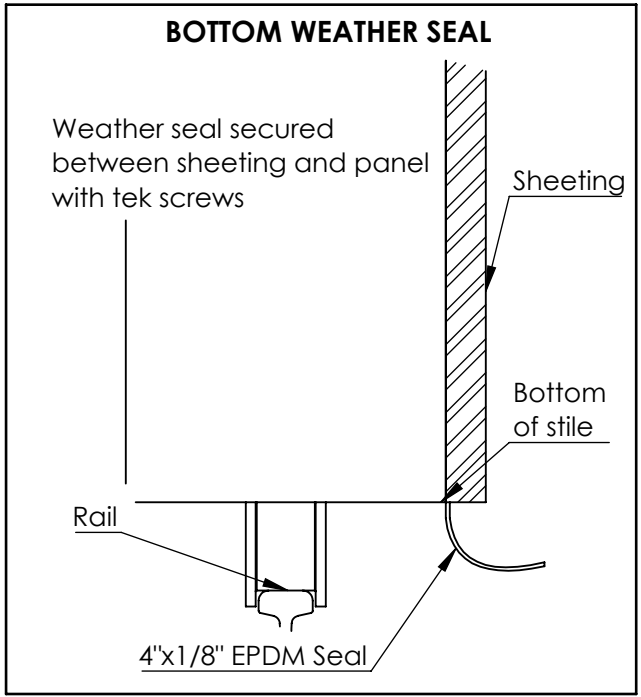
DETAIL 10



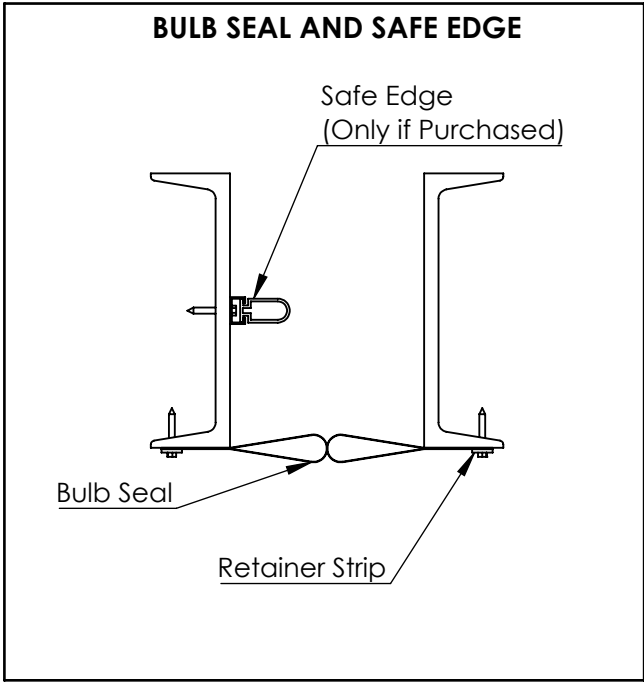
DETAIL 11



Detail 12



DETAIL 13



DETAIL 14



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

Project :Harnett Air

DESIGN DWG:KHALIL S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 7/7/2025

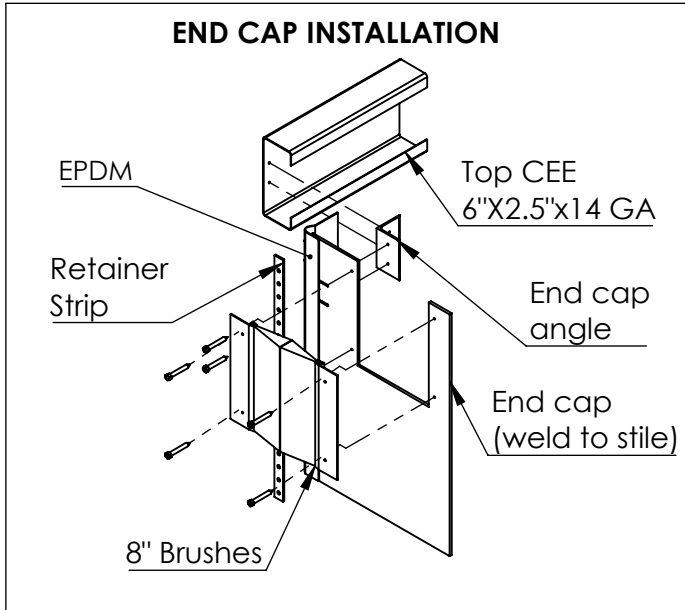
Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

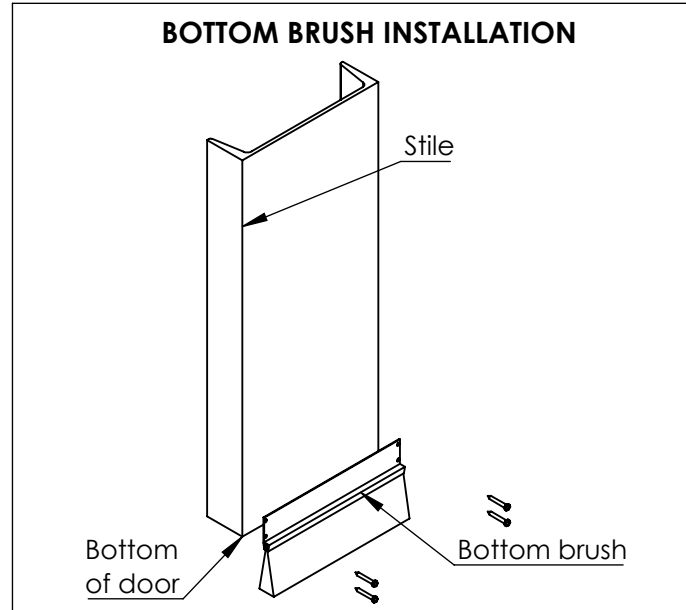
Title :Details 2

Project No:25020

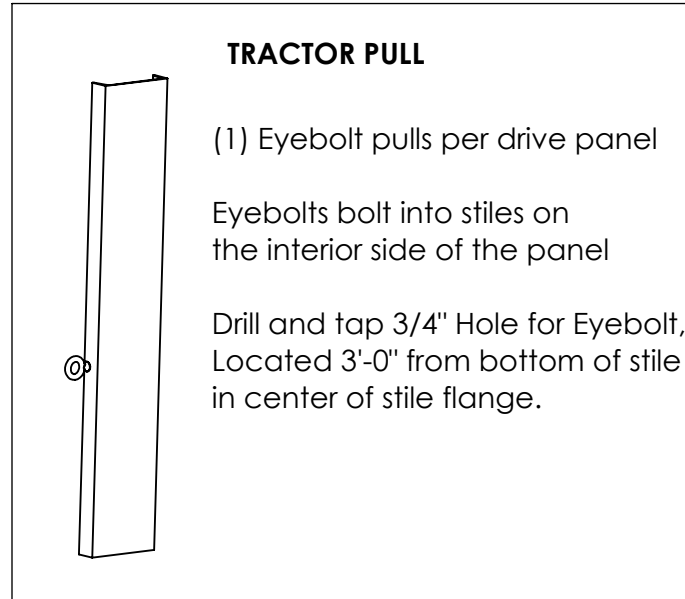
DWG. NO. S- 10



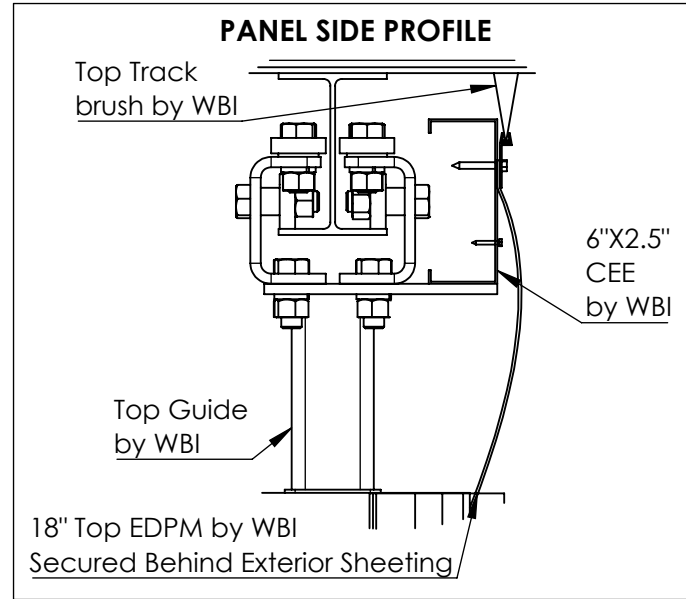
DETAIL 15



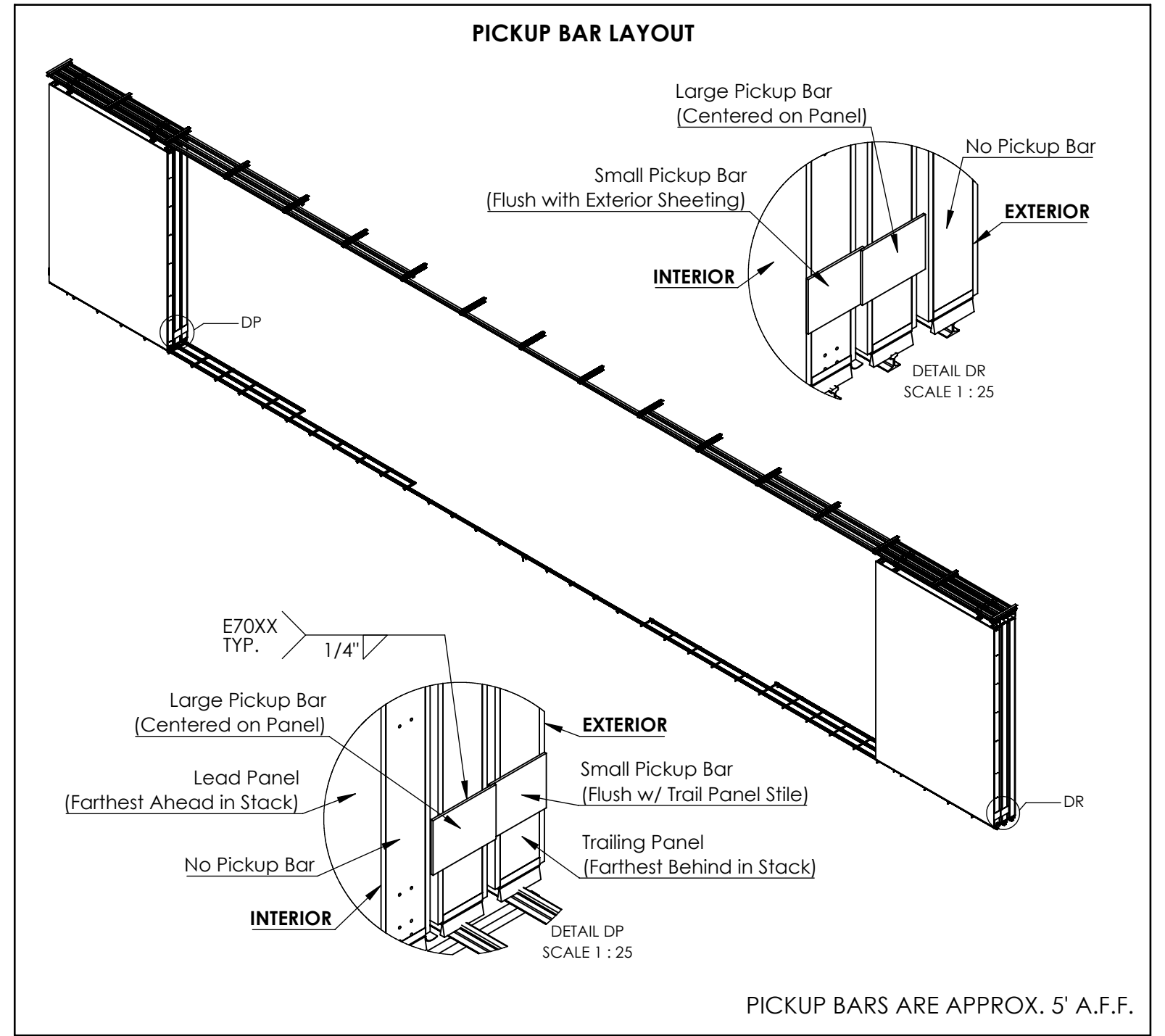
DETAIL 16



DETAIL 17



DETAIL 18



DETAIL 19



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

DESIGN DWG: KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Project :Harnett Air

Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

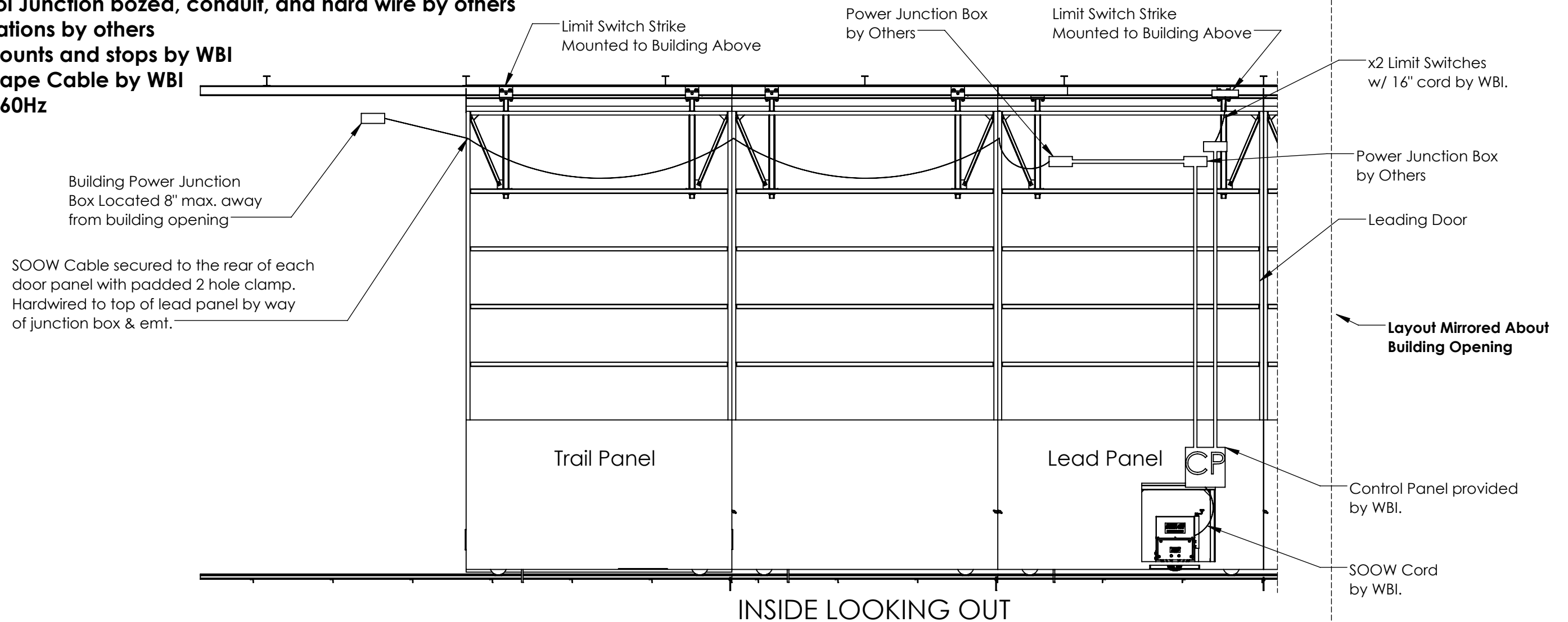
Title :Details 3

Project No:25020

DWG. NO.
S- 11

Power & Control Junction bozed, conduit, and hard wire by others

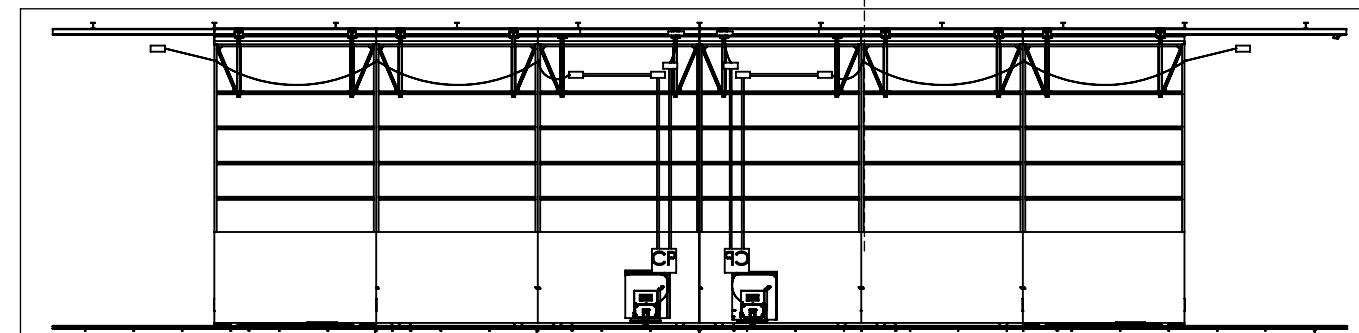
- Wiring/terminations by others
- Limit switch mounts and stops by WBI
- 12/4 Power Drape Cable by WBI
- 208V 1 Phase 60Hz



INSIDE LOOKING OUT

Note: **All Locations are shown for clarity only.** Locations are approximate only, WBI takes no responsibility for the electrical locations in any way. Consult with your Wellbilt Salesperson to discuss with our design team panel location approval.

Electrical design details must be precisely followed. Any unauthorized alterations, modifications, or adjustments to electrical details by others is strictly prohibited. Alterations of electrical design details or installation of electrical components that do not meet the criteria outline herein, without prior written consent from Well Bilt Industries USA, LLC, may result in voiding of warranties, safety hazards, non-compliance with regulatory standards, and increased costs. Well Bilt Industries USA, LLC is not responsible for any issues, damage, or safety concerns arising from unauthorized modifications to our electrical components or design details.



SYSTEM MIRRORED ON OPPOSITE SIDE



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

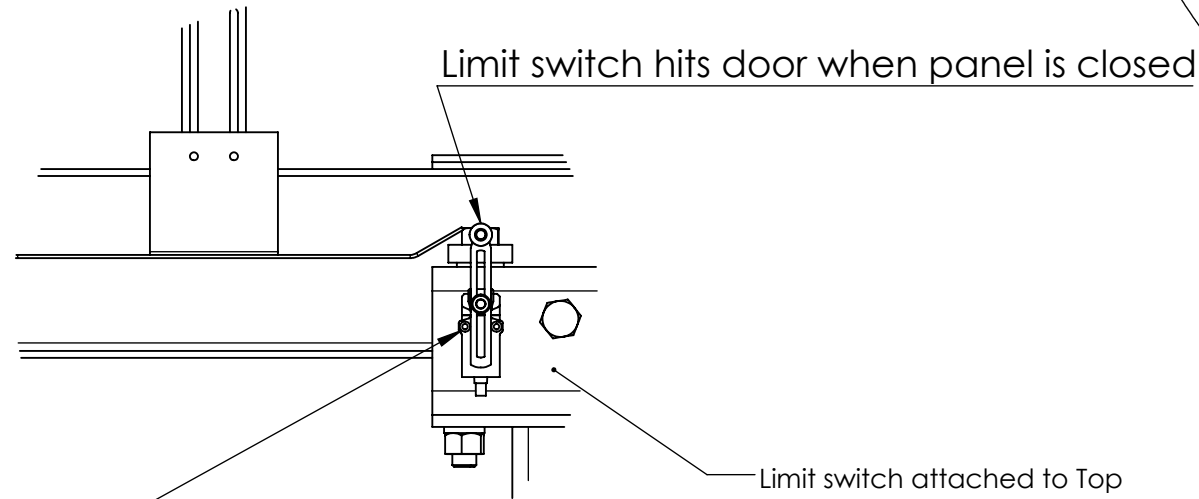
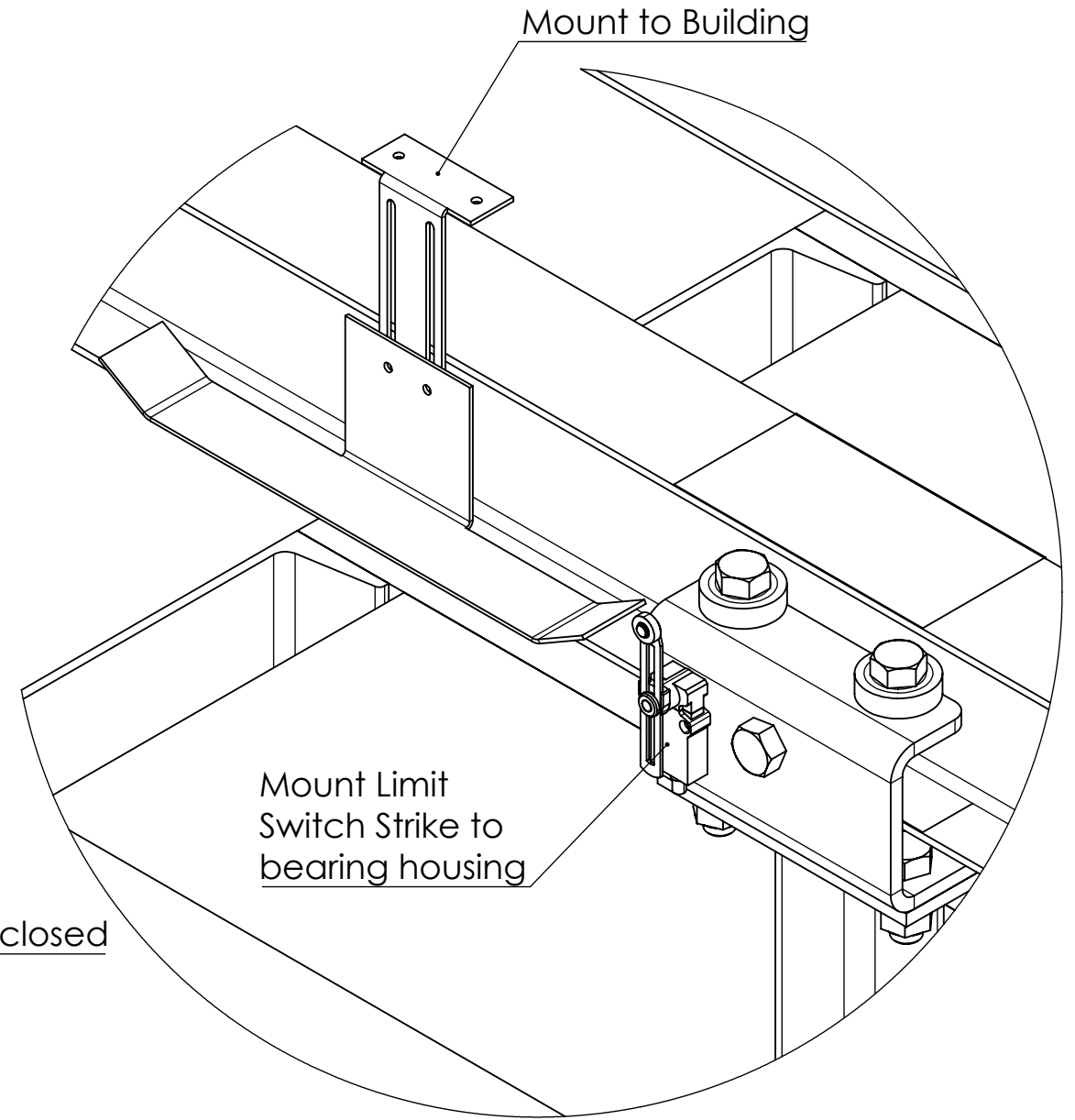
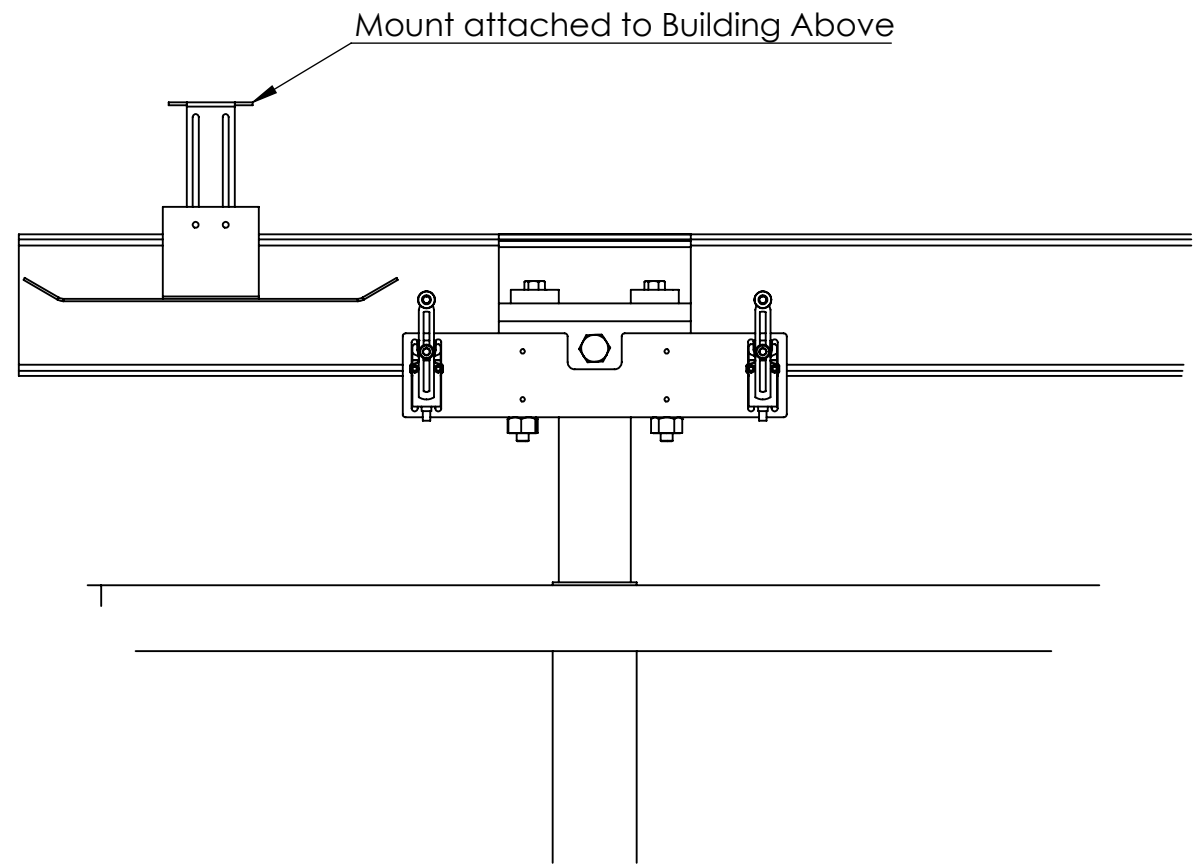
Client Signature:

DESIGN DWG: KHALIL S.
CHECKED:
MFG DWG:
MFG. APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 7/7/2025

Project :Harnett Air
Location :497 Airport Rd. Erwin, NC 28339
Customer :Robert Ostendorf
Title :Electrical Details 1

Project No:25020

DWG. NO.
S- 12



Limit switch with wire (16" whip) attached with #10-32 machine screws/nuts by WBI.

Note: Limit switch setup for closed door not shown

WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

Project :Harnett Air

DESIGN DWG:KHALIL S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 7/7/2025

Location :497 Airport Rd. Erwin, NC 28339

Customer :Robert Ostendorf

Title :Electrical Details 2

Project No:25020

DWG. NO.
S- 13