

Builder/Contractor Responsibilities

Drawing Validity – These drawings, supporting structural calculations and design certification are based on the order documents. The manufacturer as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings – Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretation of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances (April 2010 Section 4.4.1)

Code Official Approval – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector (April 2010 Section 7.10.3) (CSA/S16-03 Section 29).

Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (April 2010 Section 3.3)

Materials by Others – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturer's assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or bracing, from the plans or erecting plans that do not reflect the structural integrity of the building, the Metal Building Manufacturer or its agents should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design
The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 05 Sections 3.2.2 and A3)



For questions regarding the interpretation of the drawings, materials provided, or assembly of the parts:
• Call 1-800-879-7827
• Before or after normal hours, you may send an email to Sales@StarBuilding.com. Please include the order no., brief description of the question, & contact name and phone number.

ENGINEERING DESIGN CRITERIA

Building Code	FLORIDA BUILDING CODE, 6TH EDITION (2017)
Building Risk Category	Normal Risk Category II
Roof Dead Load	2.15 psf
Superimposed	1.50 psf
Collateral	0.50 psf (Other)
Roof Live Load	20.00 psf reduction allowed
Wind	Ultimate Wind Speed (Vult) 120.00 mph Normal Wind Speed (Vnom) 92 mph (130 section 1609.3.1) Serviceability Wind Speed 76 mph
Wind Exposure Category	B
Internal Pressure Coef (Cp,i)	0.18/-0.18
External Pressure Coef (Cp,e)	As provided by Building Manufacturer
Components not provided by Building Manufacturer	Components within 4' 0" of corner: 23.70 psf pressure -25.68 psf suction Other Areas: 23.70 psf pressure -25.68 psf suction These values are the maximum values required based on a 10 sq ft area. Components with larger areas may have lower wind loads.

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS..... BLD-A

Ceiling Type : Acoustical/Other			
Roof Limits			
Live	L/180	Purlins	L/150
Serviceability Wind	L/180		L/180
Total Gravity	L/120		L/120
Total Uplift	N/A		N/A
Frame Limits			
Live	H/60	Sideways	H/60
Serviceability Wind	H/60		N/A
Total Gravity	H/60		N/A
Wall Limits			
Live	L/60		L/60
Serviceability Wind	L/90		L/90
Total Gravity	L/120		L/120
Total Wind EV Columns	L/120		

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. ASTM A529 and ASTM A572 hot-rolled structural shapes conform to ASTM A572, ASTM A529 and ASTM A572 hot-rolled structural shapes conform to ASTM A572, Hot rolled angles, other than flange bracing, conform to ASTM 36. Hollow structural shapes conform to ASTM A500 grade B minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold-formed light gauge steel members conform to the requirements of ASTM A1011 SS Grade 55 or ASTM A1011 HSLAS Grade 55 to 75 ksi minimum yield point. Cold-formed steel pipe conform to ASTM A133 or ASTM A133 HSLAS Grade 55 Class 1 with a minimum yield point of 55 ksi or greater. Material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

All bolted joints with A325 Type 1 bolts are specified as snug-tightened joints in accordance with the Specification for Structural Joints Using ASTM A325 or A490 bolts, December 31, 2009. Pre-tensioning methods, not the Certifying Engineer declares or attests that the building manufacturer designated are proper for local provisions that may apply or for site specific parameters. The design criteria is supplied by the builder, project owner, or an Architect and/or Engineer of Record for the overall construction project.

This project is designed using manufacturer's standard serviceability criteria. Generally, this means that all deflections are within typical performance limits for normal occupancy and standard metal building products.

This metal building system is designed as an Enclosed Building. Enclosed buildings are designed for wind loads, but not limited to wind loads. Components including, but not limited to doors, windows, and other openings, shall be designed to resist the required component and cladding wind pressures specified by the building code. In order to maintain the metal building system's enclosed building condition, all components shall be closed when wind velocities reach half the designed wind load for the metal building system as shown on the drawings and design criteria documentation. Failure to maintain the enclosed building system's enclosed building condition will violate and void all warranties and certifications supplied to the material supplied by the metal building manufacturer.

Framed openings, walk doors, and open areas shall be located in the bay and elevation of girts shown in the erection drawings. The location of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

Roof and wall panels have been designed in accordance with section 2222.4 of the Florida Building Code. Product approval numbers for the State of Florida, Department of Construction Affairs per Product Rule 9B-72:

- Panel Walls
FL11917 PBR 26 gauge walls
- Roofing Products
FL11868 PBR 26 gauge roofs

Using 7x7 gage gutter with 4 x 5 downspouts, the roof drainage system has been designed using the standard built-up metal roof system. Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed 60 feet with the first downspout from both ends of the gutter run within 30 feet of the end. Downspout spacing that does not exceed the 30 feet maximum spacing shall be provided by the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity.

Drawing Index		Page	Description
E1	Cover Sheet		
E2	Roof Framing BLDGA		
E3	Roof Sheeting		
E4	Sidewall BLDGA WALLSVA		
E5	Sidewall BLDGA WALLSMC		
E6	Endwall BLDGA WALLEWB		
E7	Main Frame Cross Section		



8600 SOUTH I-35 SERVICE RD.
OKLAHOMA CITY, OK 73149
(405) 636-2010

Customer:
APEX METAL BUILDING
SYSTEMS
LIVE OAK, FL

Project Name & Location:
KRIS FASE
WHITE SPRINGS, FL

Drawing Status:
☐ Preliminary
(Not For Construction)
☐ For Approval
(Not For Construction)

☒ For Construction Permit
☐ For Erector Installation

Scale:
NOT TO SCALE

Drawn By: MMW 3/10/20

Checked By: SMH 3/10/20

Project Engineer: AXQ

Job Number: 17-B-54835


Sheet Number: E1 of 7

The engineer whose seal appears herein is an employee of the manufacturer of the material produced hereby. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Brian A. Cornish, P.E.
Florida P.E. 67645

BUILDING DESCRIPTIONS			
Building ID	Width	Length	Height Slope
Building A	40'-0"	60'-0"	16'-0" 1:12

TABLE 10. A325 BOLT GRIP TABLE

GRIP	LENGTH	BOLT LENGTH
0 TO 9/16"	1 1/4" F.T.	 <p>NOTE: FULL THREADED ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.</p> <p>WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.</p>
Over 9/16" TO 1 1/16"	1 3/4" F.T.	
Over 1 1/16" TO 1 5/16"	2"	
Over 1 5/16" TO 1 9/16"	2 1/4"	
Over 1 9/16" TO 1 13/16"	2 1/2"	
Over 1 13/16" TO 2 1/16"	2 3/4"	
LOCATIONS OF BOLTS LONGER THAN 2 3/4"		
NOTED ON ERECTION DRAWINGS		
F.T. DENOTES FULLY THREADED		

Download panel installation manuals from:
www.starbuilding.com

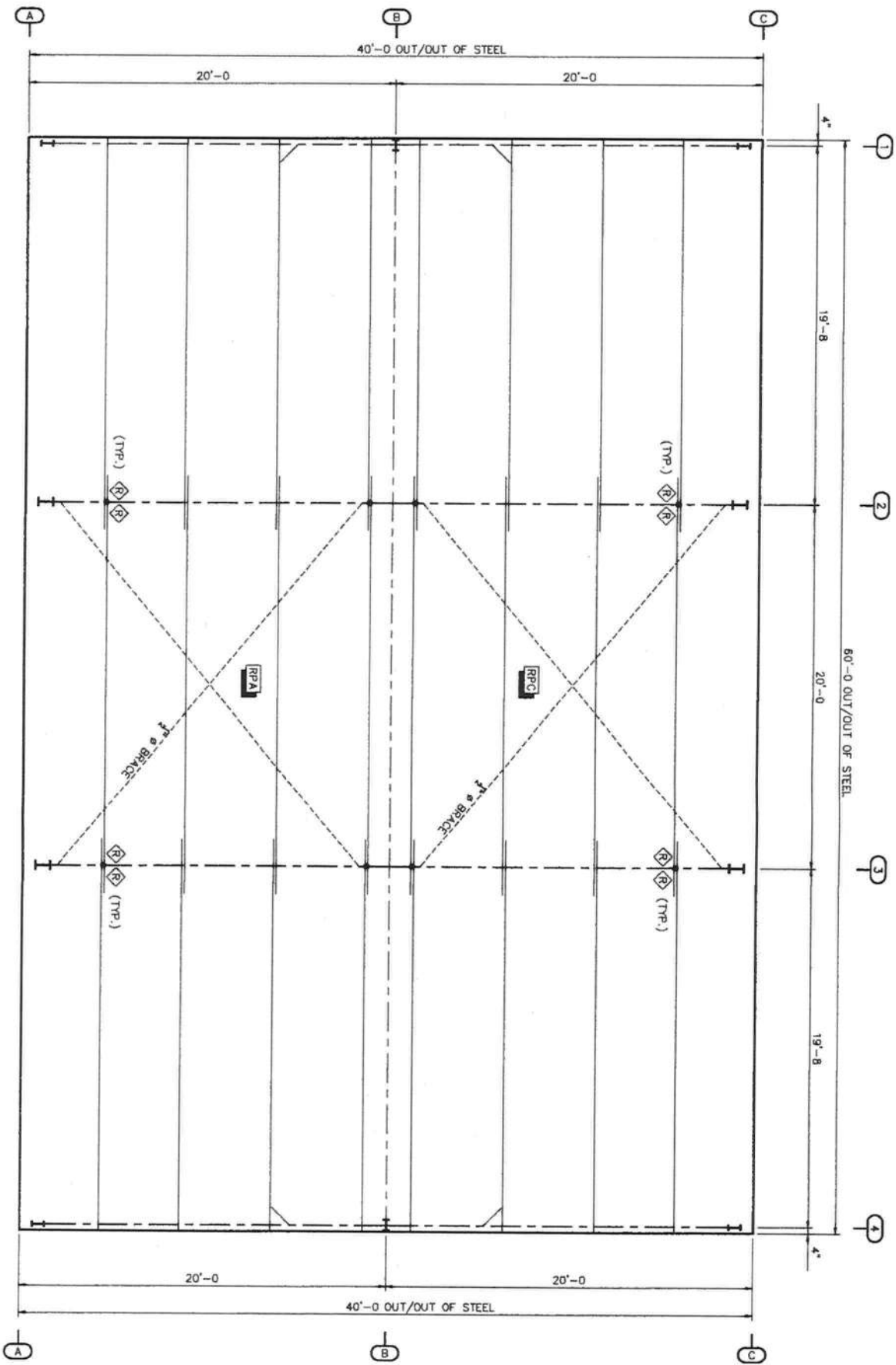
Descargue los manuales de instalación del panel desde:
www.starbuilding.com

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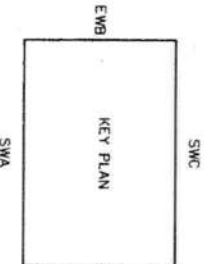


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● - DENOTES: CLIP LOCATION
SC90 AT 8" PURLINS
SC92 AT 10" PURLINS
SC94 AT 12" PURLINS



ROOF FRAMING PLAN



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	-0'-0 1/2"		2'-5 1/2"
	0'-3 3/4"		3'-1 1/2"
	1'-5 1/2"	REFER TO CF01122	

Revision	Date	Description	By	Ck'd

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APEX METAL BUILDING
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Project Name & Location:
KRIS FASE
WHITE SPRINGS, FL

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☐ For Approval
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☒ For Construction Permit
☐ For Erector Installation

Scale:
NOT TO SCALE

Drawn by: MWA 3/10/20
Checked by: SNH 3/10/20
Project Engineer: ANQ

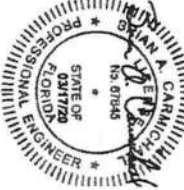
Job Number: 17-B-54835

Sheet Number: E2 of 7

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record for this project.

Brian A. Carmichael, P.E.
Florida P.E. 67645

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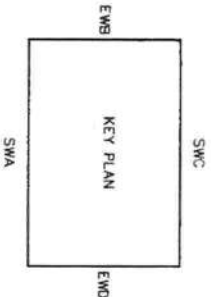


ROOF SHEETING PLANE 2
PANEL TYPE = PBR (S300)
PANEL OVERHANG = 3"
FROM OUTER STEEL

[illegible]

ROOF SHEETING PLANE 1
PANEL TYPE = PBR (S300)
PANEL OVERHANG = 3"
FROM OUTER STEEL

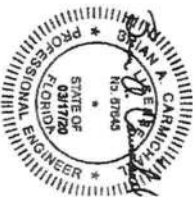
DOWNSPOUTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED 60'-0" WITH A DOWNSPOUT WITHIN 30'-0" OF EACH END OF THE GUTTER RUN.



DOWNSPOUT LAYOUT

[4 REQ'D]

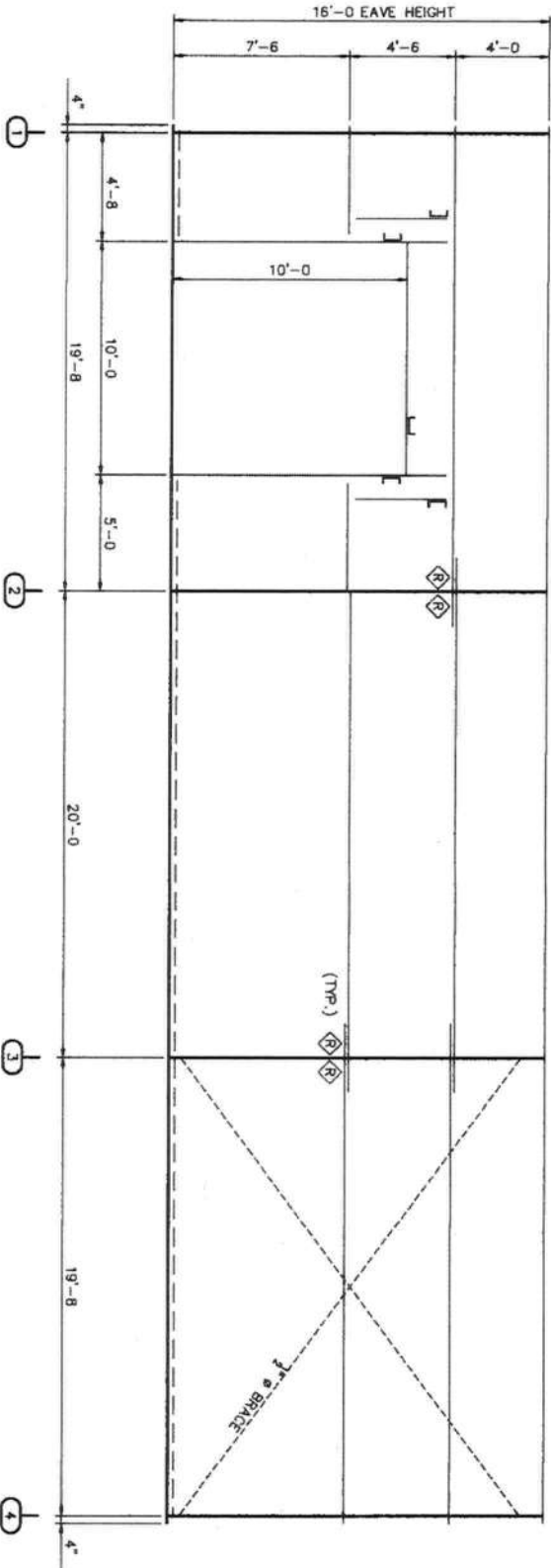
Scale: NOT TO SCALE Drawn by: MMW 3/10/20 Checked by: SNH 3/10/20 Project Engineer: AXO Job Number: 17-8-5435	STAR BUILDING SYSTEMS® 8600 SOUTH I-35 SERVICE RD. OKLAHOMA CITY, OK 73149 (405) 636-2010		Revision Date Description By Ck'd	
	Customer: APEX METAL BUILDING SYSTEMS LIVE OAK, FL	Project Name & Location: KRIS FASE WHITE SPRINGS, FL		
Sheet Number: E3 of 7 The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Solid seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.	Drawing Status: <input type="checkbox"/> Preliminary (Not For Construction) <input type="checkbox"/> For Approval (Not For Construction)		<input checked="" type="checkbox"/> For Construction Permit <input type="checkbox"/> For Erector Installation	



Drawing has been digitally signed.

NO. REQD		DESCRIPTION
2	3'-0" X 5'-0" FACTORY LOCATED FRAMED OPENINGS	
2	10'-0" X 10'-0" FACTORY LOCATED FRAMED OPENINGS	
2	3070 KNOCK-DOWN WALK DOORS	

REFER TO DETAILS ON INSTALLATION OF WALK DOORS.
REFER TO DETAILS ON INSTALLATION OF FRAMED OPENINGS.
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.

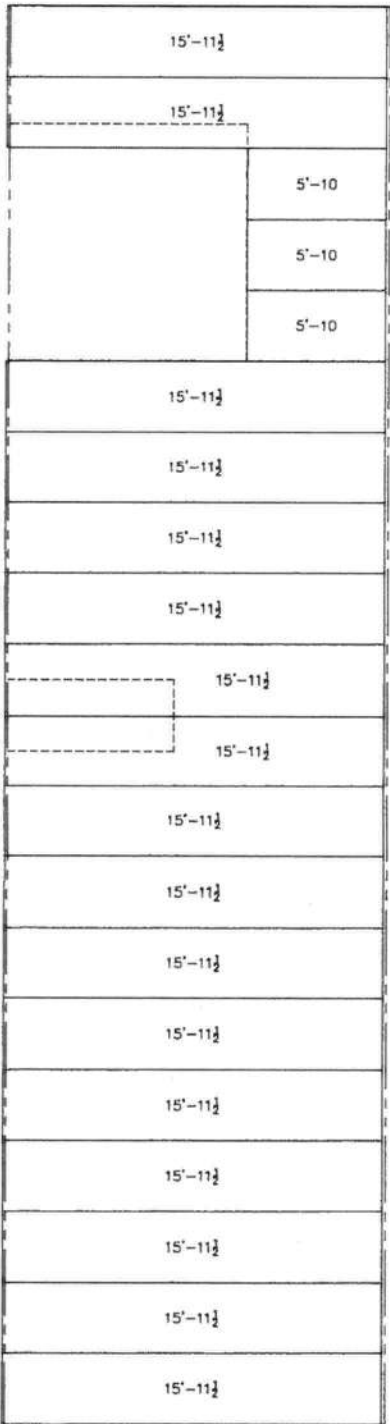


NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING
AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS,
OPEN AREAS, AND/OR CONSTRUCTION (NOT BY MANUFACTURER) AREAS.

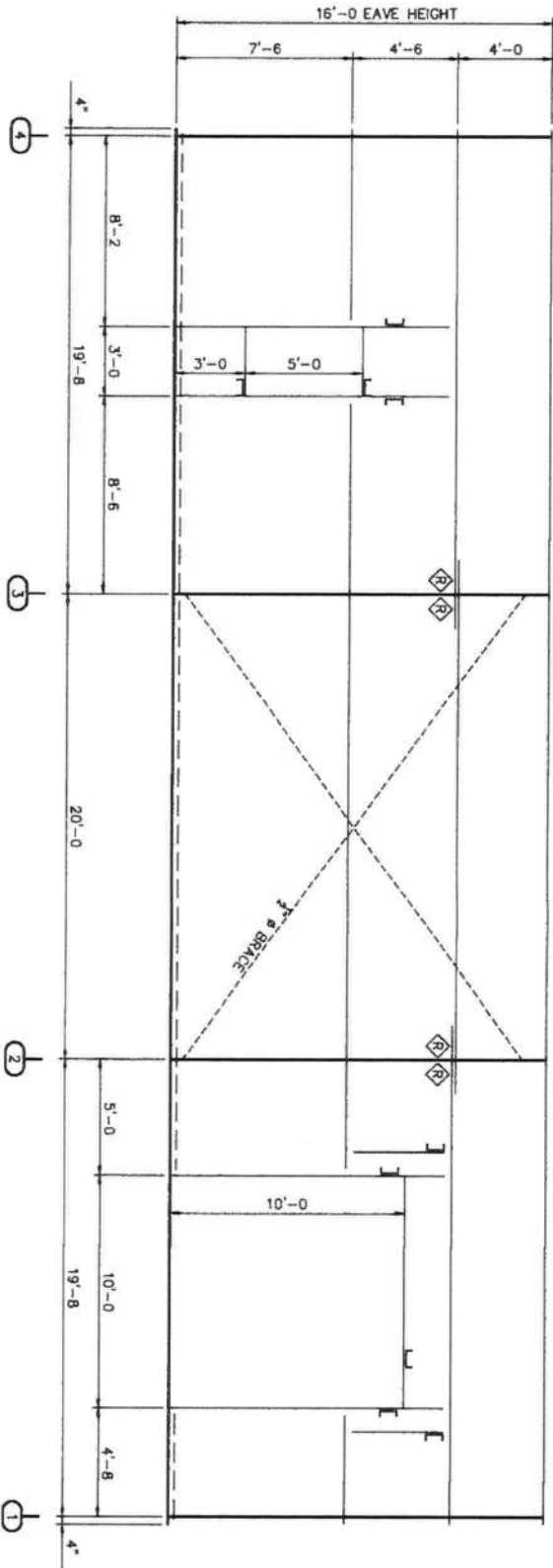
PBR WALL PANELS
PANEL COVERAGE = 3'-0"
COLOR = S300
PANEL PKG. REQD. = PBS-3
Field Cut Panel and trim as
required per Construction Details

ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	0'-0"		2'-5"
	0'-3"		3'-1"
	1'-5"	REFER TO CF01122	

WALL SHEETING ELEVATION "SWA"
BLDG "A"

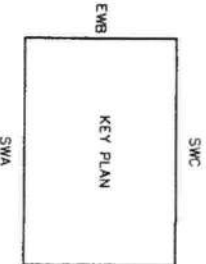
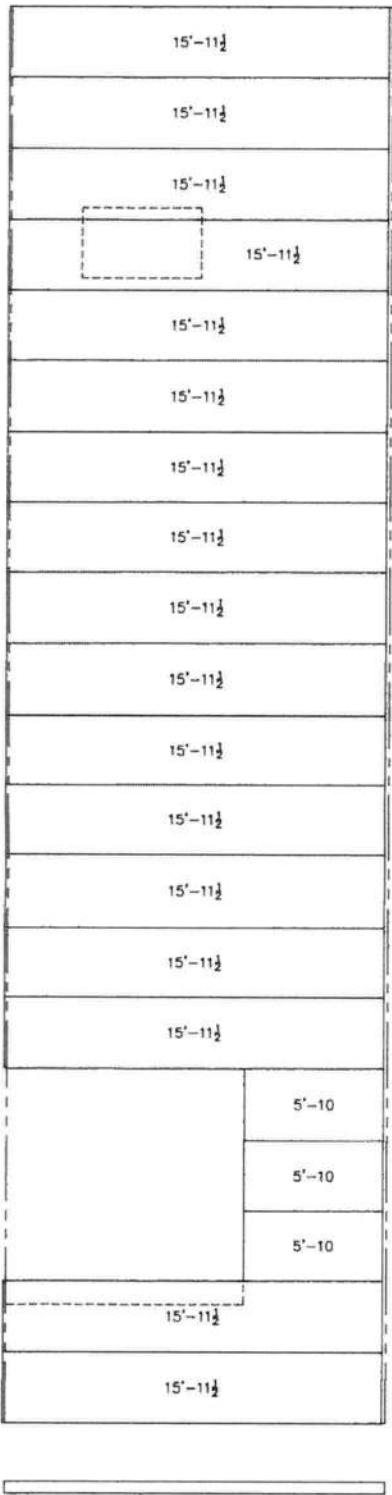


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Customer: APEX METAL BUILDING SYSTEMS LIVE OAK, FL	Project Name & Location: KRIS FASE WHITE SPRINGS, FL
Drawing Status: <input type="checkbox"/> Preliminary (Not For Construction) <input checked="" type="checkbox"/> For Construction Permit <input type="checkbox"/> For Approval (Not For Construction) <input type="checkbox"/> For Erector Installation	
Scale: NOT TO SCALE	
Drawn By: MM 3/10/20	Checked By: SNH 3/10/20
Project Engineer: AXD	
Job Number: 17-B-54835	
Sheet Number: E4 of 7	
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Brian A. Carmichael, P.E. Florida P.E. 67645	



NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS, OPEN AREAS, AND/OR CONSTRUCTION (NOT BY MANUFACTURER) AREAS.

PBR WALL PANELS
PANEL COVERAGE = 3'-0"
PANEL PKG. REQ'D. = P8S-4
Field Cut Panel and Trim as required per Construction Details



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	0'-0 1/2"		2'-5 1/2"
	0'-3 3/4"		3'-1 1/2"
	1'-5 1/4"	REFER TO CF01122	

WALL SHEETING ELEVATION "SWC"
BLDG "A"



Revision	Date	Description	By	Ck'd

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ASTARBUILDING SYSTEMS®

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APEX METAL BUILDING
SYSTEMS
LIVE OAK, FL

Project Name & Location:
KRIS FASE
WHITE SPRINGS, FL

Drawing Status:

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Scale: NOT TO SCALE

Drawn By: MMW 3/10/20

Checked By: SNH 3/10/20

Project Engineer: AXD

Job Number: 17-B-54835

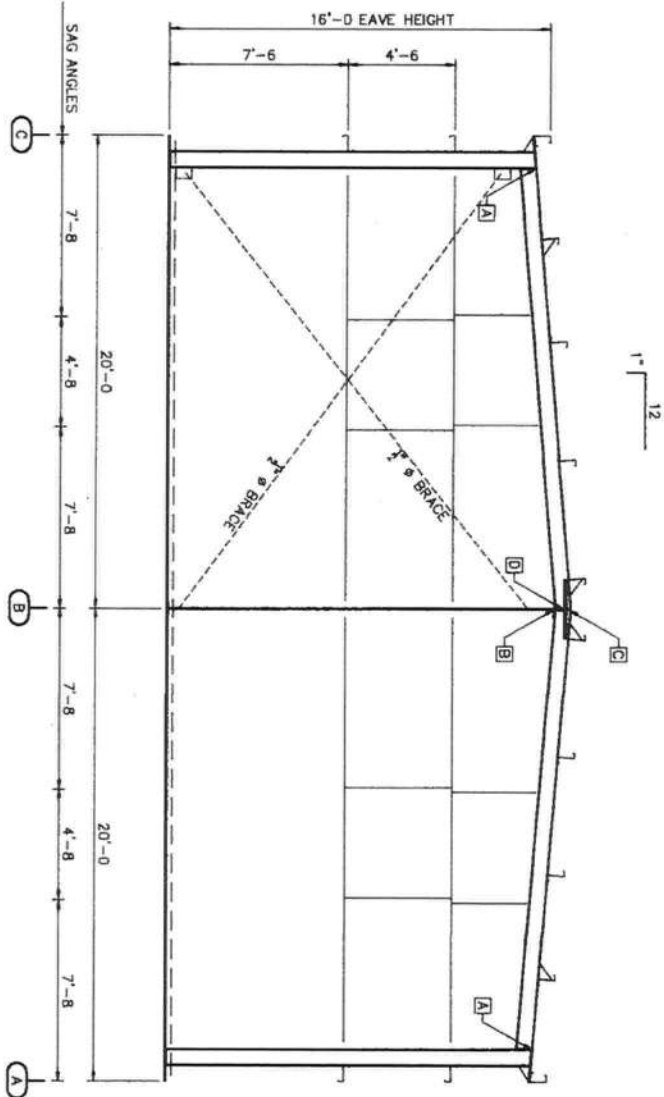
Sheet Number: E5 of 7

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Florida P.E. 67645

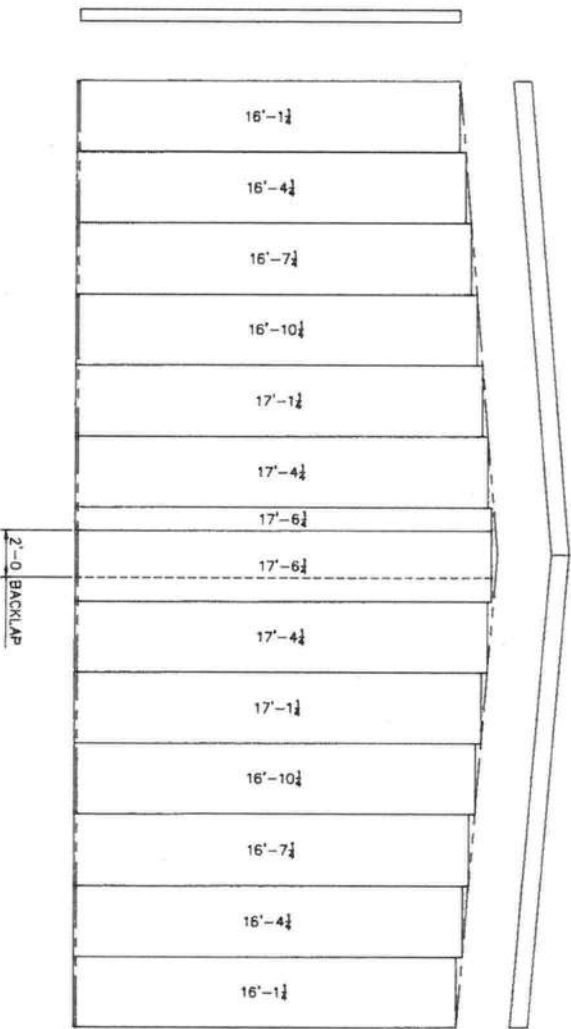
Drawing has been digitally signed

SPLICE BOLT TABLE				
CONN.	QTY.	SIZE	TYPE	HARDENED BEVELLED WASHERS
A	(2)	1/2 x 1 1/2	A325 B&N	0
B	(4)	1/2 x 1 1/2	A325 B&N	4
C	(4)	1/2 x 1 1/2	A325 B&N	0
D	(4)	1/2 x 1 1/2	A325 B&N	0

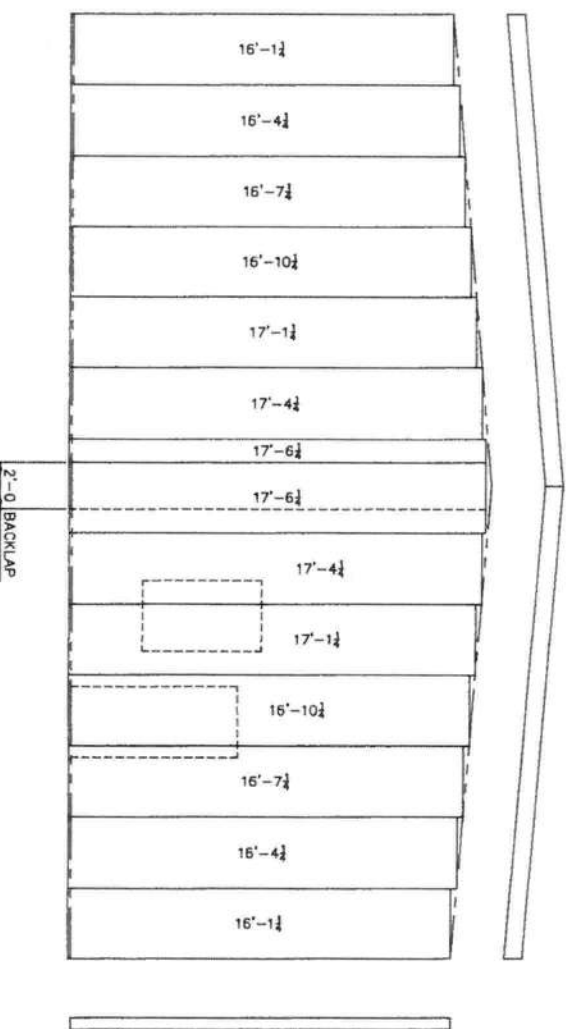


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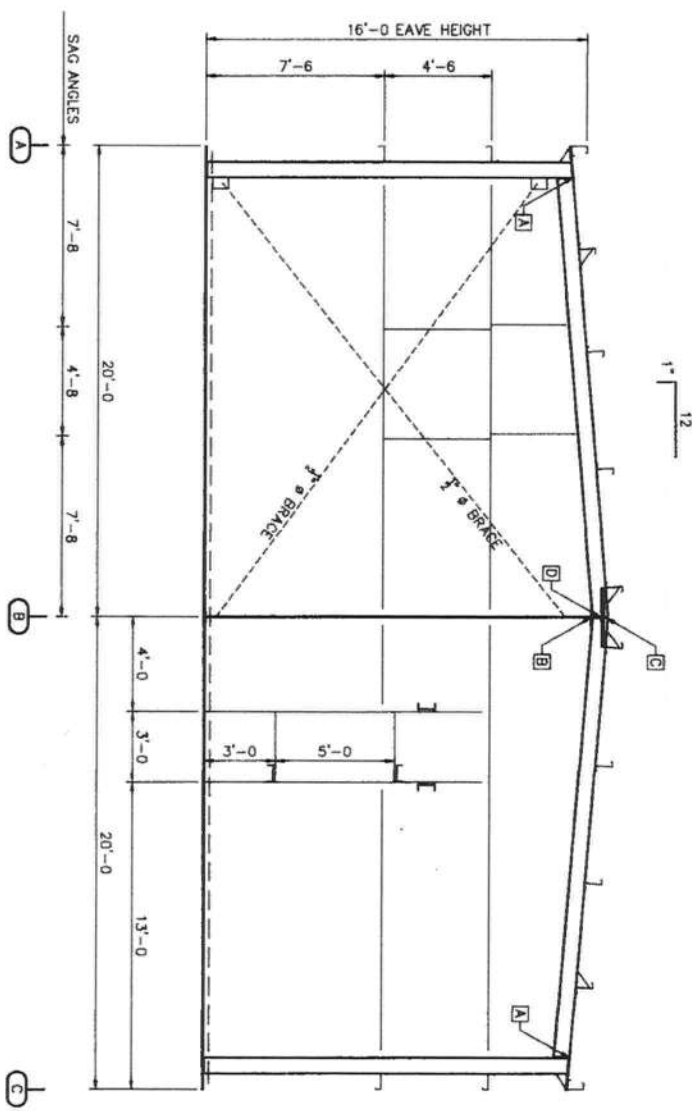
ELEVATION "EWB"



PBR WALL PANELS
PANEL COVERAGE = 3'-0"
COLOR = S300
PANEL PKG. REQ'D. = PBR-1
Field Cut Panel and Trim as required per Construction Details



PBR WALL PANELS
PANEL COVERAGE = 3'-0"
COLOR = S300
PANEL PKG. REQ'D. = PBR-2
Field Cut Panel and Trim as required per Construction Details



ELEVATION "EWB"

2'-0" BACKLAP

WALL SHEETING ELEVATION "EWB"
BLDG "A"

WALL SHEETING ELEVATION "EWB"
BLDG "A"

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Customer:
APEX METAL BUILDING
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LIVE OAK, FL

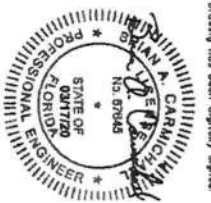
Project Name & Location:
KRIS FASE
WHITE SPRINGS, FL

Drawing Status:
☐ Preliminary
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(Not For Construction)

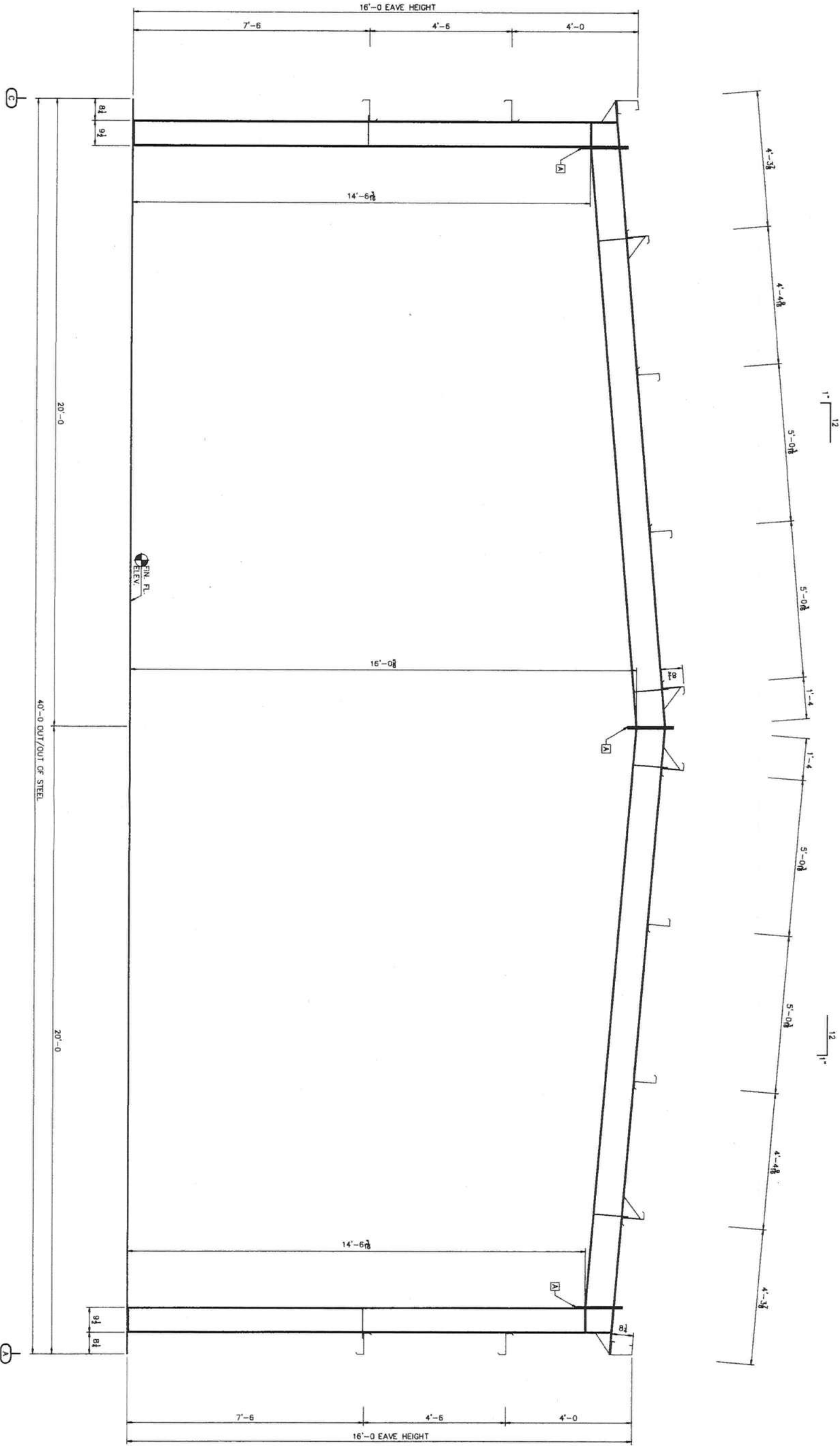
☒ For Construction Permit
☐ For Erector Installation

Revision	Date	Description	By	Ck'd

Scale: NOT TO SCALE
Drawn by: MWA 3/10/20
Checked by: SMH 3/10/20
Project Engineer: ANO
Job Number: 17-B-54835
Sheet Number: E6 of 7
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Brian A. Carmichael, P.E.
Florida P.E. 67645



GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.

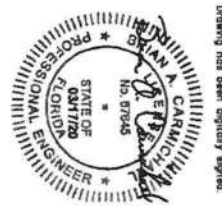


CROSS SECTION AT FRAME LINES "2" & "3"

SPURCE BOLT TABLE				
QNTY.	SIZE	TYPE	HARDENED BEHELD WASHERS	WASHERS
A	(8) 1/2 X 1 1/2	A325 B&N	0	0

ASTAR BUILDING SYSTEMS® 6600 SOUTH I-35 SERVICE RD. OKLAHOMA CITY, OK 73148 (405) 636-2010		Customer: APEX METAL BUILDING SYSTEMS LIVE OAK, FL		Project Name & Location: KRIS FASE WHITE SPRINGS, FL	
Scale: NOT TO SCALE		Drawing Status: <input type="checkbox"/> Preliminary (Not For Construction) <input type="checkbox"/> For Approval (Not For Construction)		<input checked="" type="checkbox"/> For Construction Permit <input type="checkbox"/> For Erector Installation	
Drawn by: WMM 3/10/20		Checked by: SNH 3/10/20		Project Engineer: AXQ	
Job Number: 17-B-54835		Sheet Number: E7 of 7			
<small>The engineer whose seal appears on this drawing is responsible for the accuracy of the information described herein. Solid seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.</small>					
Brian A. Cornichan, P.E. Florida P.E. 67645					

Revision	Date	Description	By	Ch'd

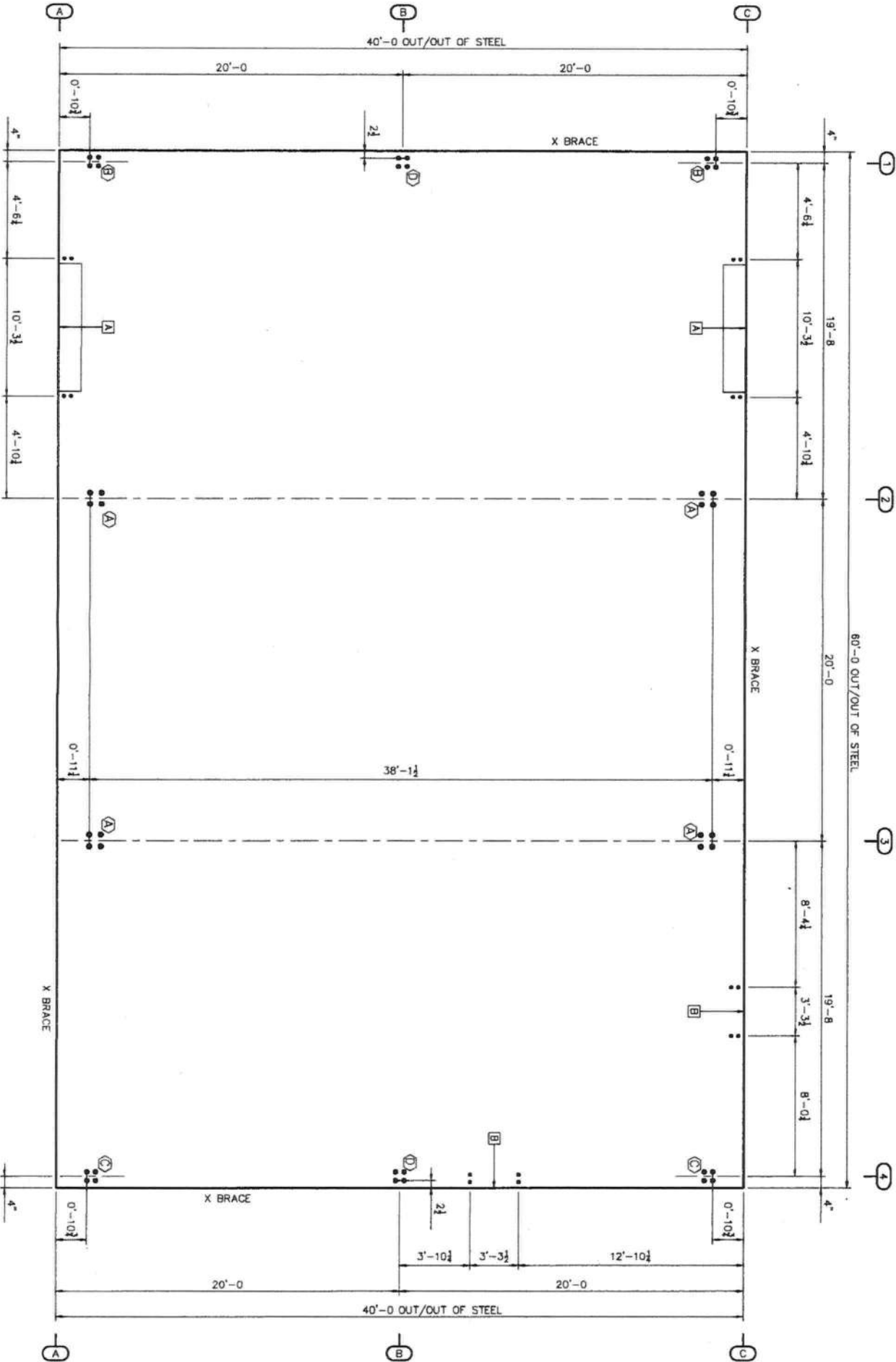


Drawing has been digitally signed.

Anchor Rod Drawings

- 1) This drawing is for anchor rod placement only and is not foundation design.
- 2) Foundation must be square and level with all anchor rods true in size, location, and projection.
- 3) Projection shown must be held to keep threads clear of finished concrete.
- 4) This structural design data includes magnitude and location of design loads and supports, material properties, and type and size of major structural members. It is intended to be used in conjunction with the other documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
- 5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
- 6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.
- 7) 3000 psi concrete compressive strength (f'_c) is assumed for the purpose of column base plate design unless otherwise noted.

FINISH FLOOR AT ELEVATION 100'-0"



ACCESSORY SCHEDULE			
MARK	DESCRIPTION	DETAIL	QUAN.
A	10'-0" X 10'-0" FRAMED OPENINGS	E	2
B	3'-0" X 5'-0" FRAMED OPENINGS	E	2

ANCHOR BOLTS TO BE DESIGNED BY FOUNDATION ENGINEER USING DIAMETERS SHOWN IN THIS TABLE.

ANCHOR ROD DESCRIPTION	QUANTITY
3/4" DIA. X 4'-0"	40
3/4" DIA. X 4'-0"	16

ANCHOR ROD SETTING PLAN

Revision	Date	Description	By	Ck'd

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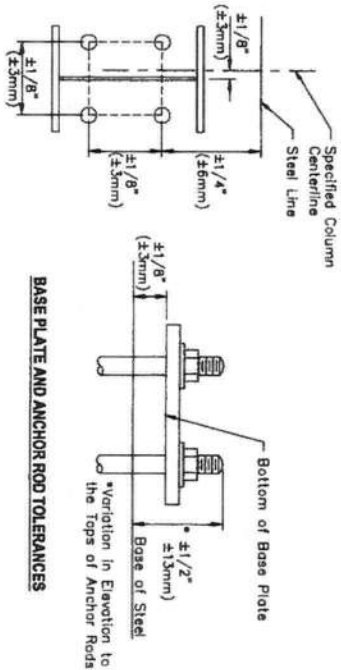
Sheet Number: F1 of 3

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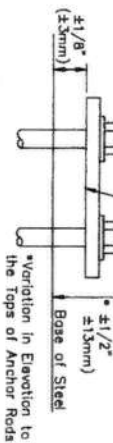
Brian A. Cornichon, P.E.
Florida P.E. 67645

Drawing has been digitally signed.

ANSI CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS



BASE PLATE AND ANCHOR ROD TOLERANCES



A

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

B

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

C

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

D

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

E

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

F

TYPICAL SECTION
3/4" ANCHOR RODS

BASE OF STEEL AT ELEV. 100'-0"

Revision	Date	Description	By	Ck'd

8600 SOUTH I-35 SERVICE RD.
OKLAHOMA CITY, OK 73149
(405) 836-2010

STAR

BUILDING SYSTEMS®

Customer:
APEX METAL BUILDING
SYSTEMS
LIVE OAK, FL

Project Name & Location:
KRIS FASE
WHITE SPRINGS, FL

Drawing Status:
☐ Preliminary
(Not For Construction)
☐ For Approval
(Not For Construction)

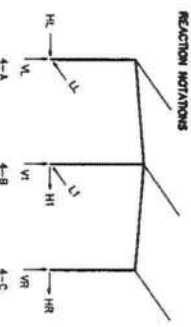
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: MM 3/10/20
Checked by: SNH 3/10/20
Project Engineer: AXQ
Job Number: 17-B-54835
Sheet Number: F2 of 3

The engineer whose seal
appears hereon is an employee
for this manufacturer for the
materials described herein. Said
seal or certification is limited
to the products manufactured
only. The undersigned engineer is
not the overall engineer of
record for this project.

Blair A. Cornick, P.E.
Florida P.E. 67645

Drawing has been digitally signed.



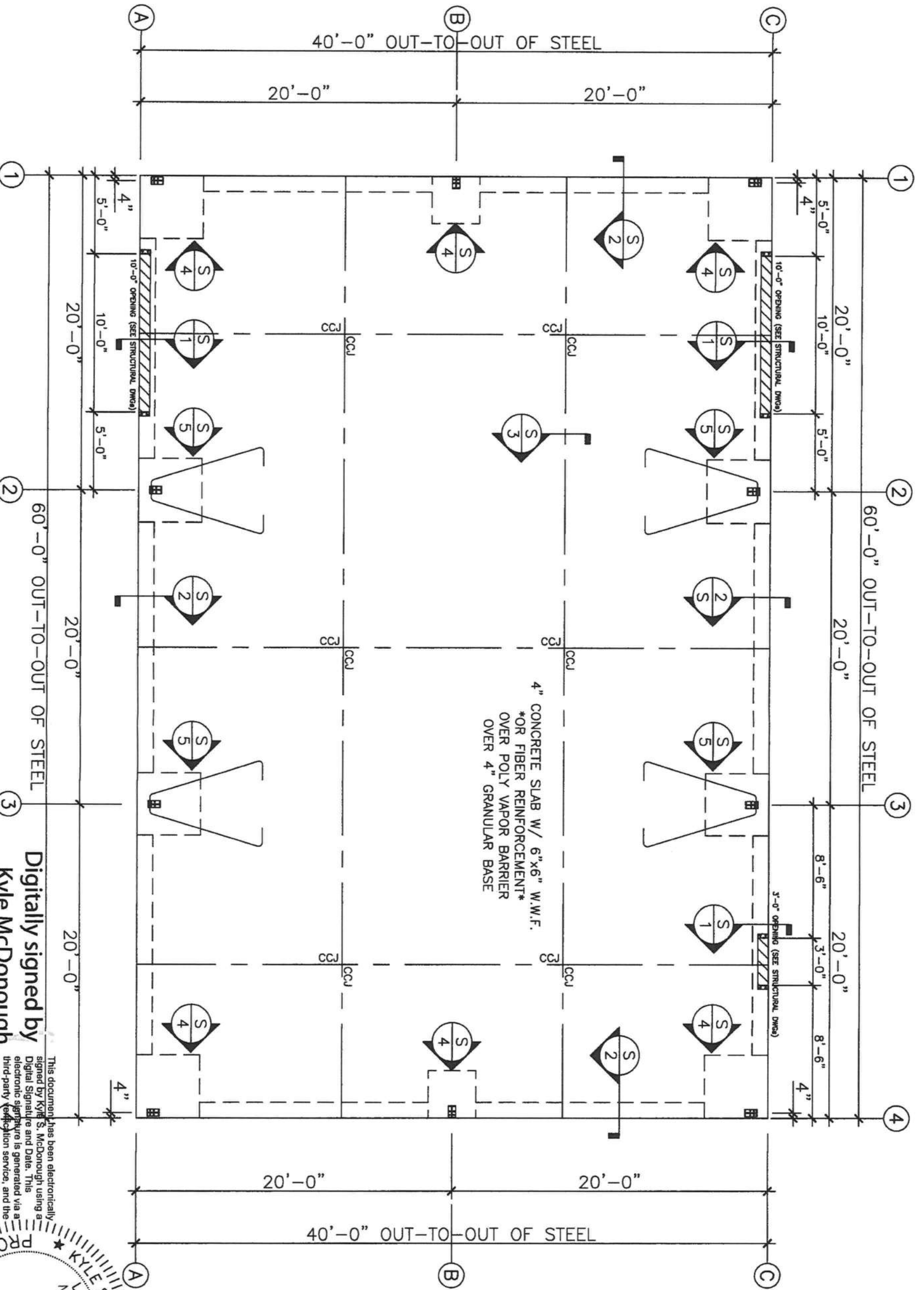
D	DEAD LOAD
C	COLLATERAL LOAD
L	LIVE LOAD
W+	WIND LOAD AS AN INWARD ACTING PRESSURE
W-	WIND LOAD AS AN OUTWARD ACTING SUCCTION
WR	WIND FORCE FROM THE RIGHT
WL	WIND FORCE FROM THE LEFT

DL	?	Root Dead Load
LL	?	Root Live Load
COL	?	Root Coastal Load
WL1	?	Wind from Left to Right with +DCI
WL2	?	Wind from Left to Right with -DCI
WL3	?	Wind from Right to Left with +DCI
WL4	?	Wind from Right to Left with -DCI
BSLW	?	Unwind from Right with +DCI
BSLR	?	Unwind from Right with -DCI
WL5	?	Windward Corner Right with +DCI
WL6	?	Windward Corner Left with -DCI
WL7	?	Windward Corner Right with -DCI
BSLW	?	Downwind Acting Free Board Load from Long Wind

LOAD SOURCE DESCRIPTION	
D	DEAD LOAD
C	COLLATERAL LOAD
L	LIVE LOAD
W+	WIND LOAD AS AN INWARD ACTING PRESSURE
W-	WIND LOAD AS AN OUTWARD ACTING SUCKION
WE	WIND FORCE FROM THE WEST
NE	WIND FORCE FROM THE LEFT

[illegible]

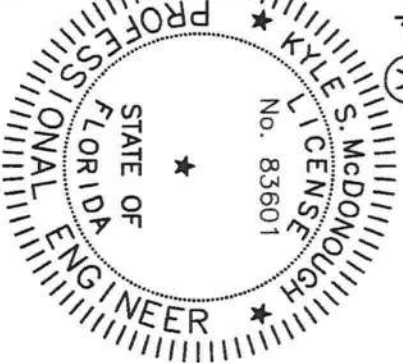
THE ABOVE-REPRESENTED DOES NOT PRECLUDE ADDITIONAL LOAD COMBINATIONS REACTIONS; HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.



FOUNDATION PLAN

Digitally signed by
Kyle McDonough
Date: 2020.03.26
'14:08:57 -04'00

This document has been electronically signed by Kyle S. McDonough using a Digital Signature and Date. This electronic signature is generated via a third-party verification service, and the application of this document requires a digital verified signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



APEX METAL BUILDING SYSTEMS

118 Northeast Conner St.
LIVE OAK, FL 32406
PHONE: 800.231.0026

KRIS FASE
WHITE SPRINGS, FL 32096
JOB NO. 20-149

DATE
MARCH 26, 2020
SHEET
1 OF 3

SEISMIC DESIGN PARAMETERS:

```

ROOF LIVE LOAD:
ROOF DEAD LOAD
SUPERIMPOSED:
COLLATERAL:
GROUND SNOW LOAD:
FLAT ROOF SNOW LOAD:
ULTIMATE WIND SPEED:
WIND EXPOSURE CATEGORY:
IMPORTANCE FACTOR:

20 PSF
2.15 PSF
1.5 PSF
0.0 PSF
0.0 PSF
120 MPH
B
WIND
SEISMIC
SNOW

1.00
1.00
1.00

SEISMIC USE GROUP:
SPECTRAL RESPONSE ACCELERATION:
SITE CLASSIFICATION:
SEISMIC DESIGN CATEGORY:

II - NORMAL
SS: N/A
S1: N/A
D
-

EARTHQUAKE:
WIND:
CALCULATED BUILDING DESIGN BASE SHEARS:
VX= SEE METAL BLDG. DRAWINGS
VY= SEE METAL BLDG. DRAWINGS

```

LATERAL DESIGN CONTROL:

EARTHQUAKE: X
WIND: X
CALCULATED BUILDING DESIGN BASE SHEARS:
VX= SEE METAL BLDG. DRAWINGS
VY= SEE METAL BLDG. DRAWINGS

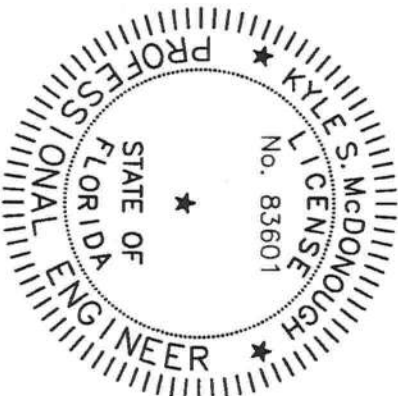
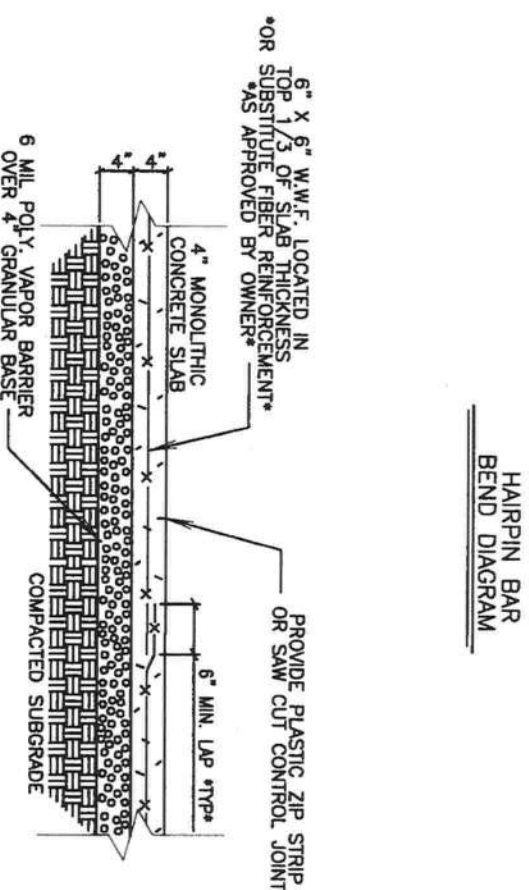
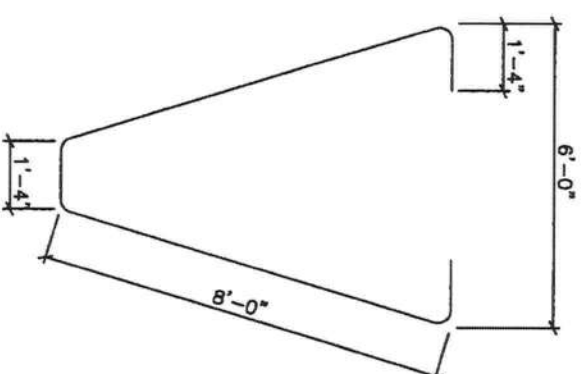
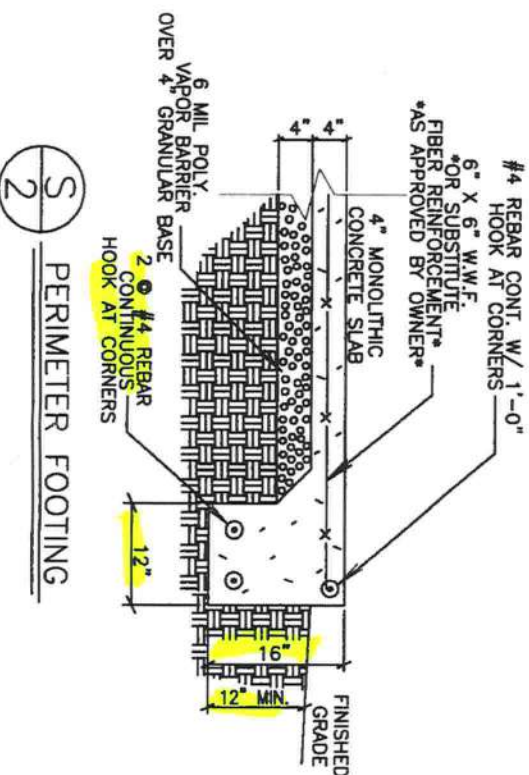
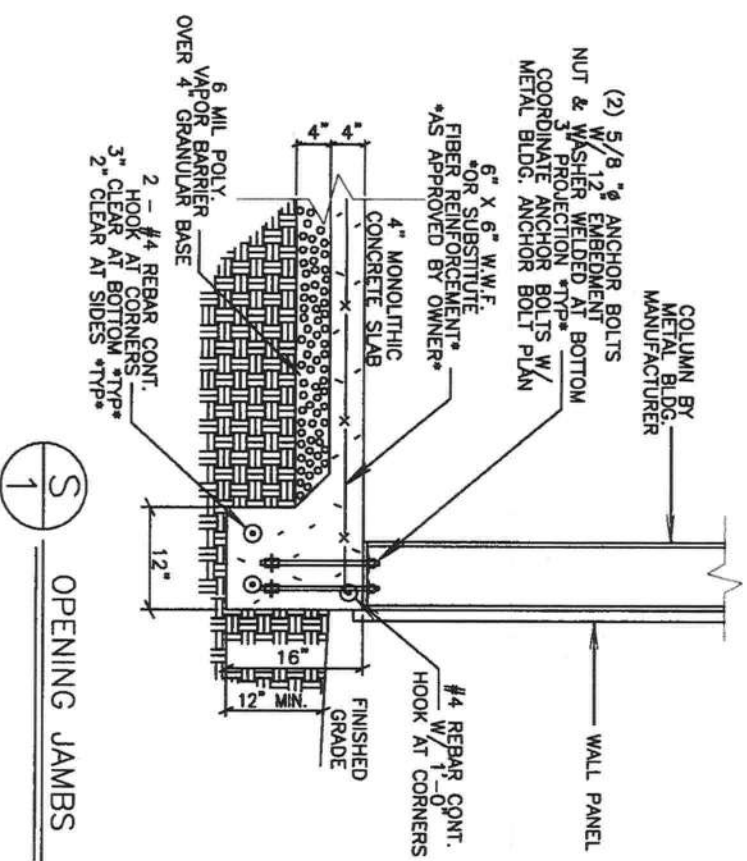
1. ASSUMED SOIL BEARING PRESSURE IS 2,000 PSF ON FIRM UNDISTURBED SOIL OR COMPACTED FILL MATERIAL. ALL CONC. FOOTINGS SHOULD EXTEND BELOW FROST LINE PER LOCAL BUILDING CODE.
2. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD, AND OTHER ORGANIC MATERIAL. MATERIALS USED FOR FILL BELOW FOOTINGS AND WITHIN BUILDING LIMITS SHALL BE TESTED AND APPROVED FOR USE BY AN APPROVED TESTING AGENCY.
3. FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 8 INCHES AND COMPACTED TO 95 PERCENT OF THE OPTIMUM DENSITY AS DEFINED BY ASTM D-698.
4. PROOFROLLING SHALL BE CONDUCTED FOR BUILDING SUBGRADE USING A FULLY LOADED DUMP TRUCK. PROOFROLLING SHALL BE CONDUCTED FOLLOWING A SUITABLE PERIOD OF DRY WEATHER TO AVOID DEGRADING AN OTHERWISE ACCEPTABLE SUBGRADE.
5. UTILITY LINES SHALL NOT BE PLACED THROUGH BUILDING FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.

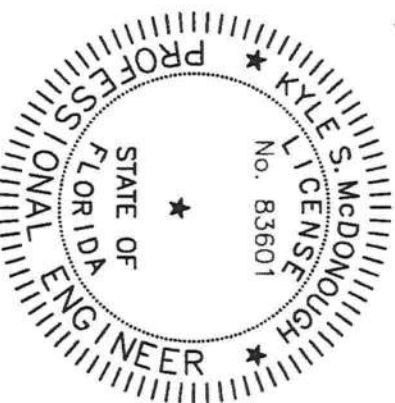
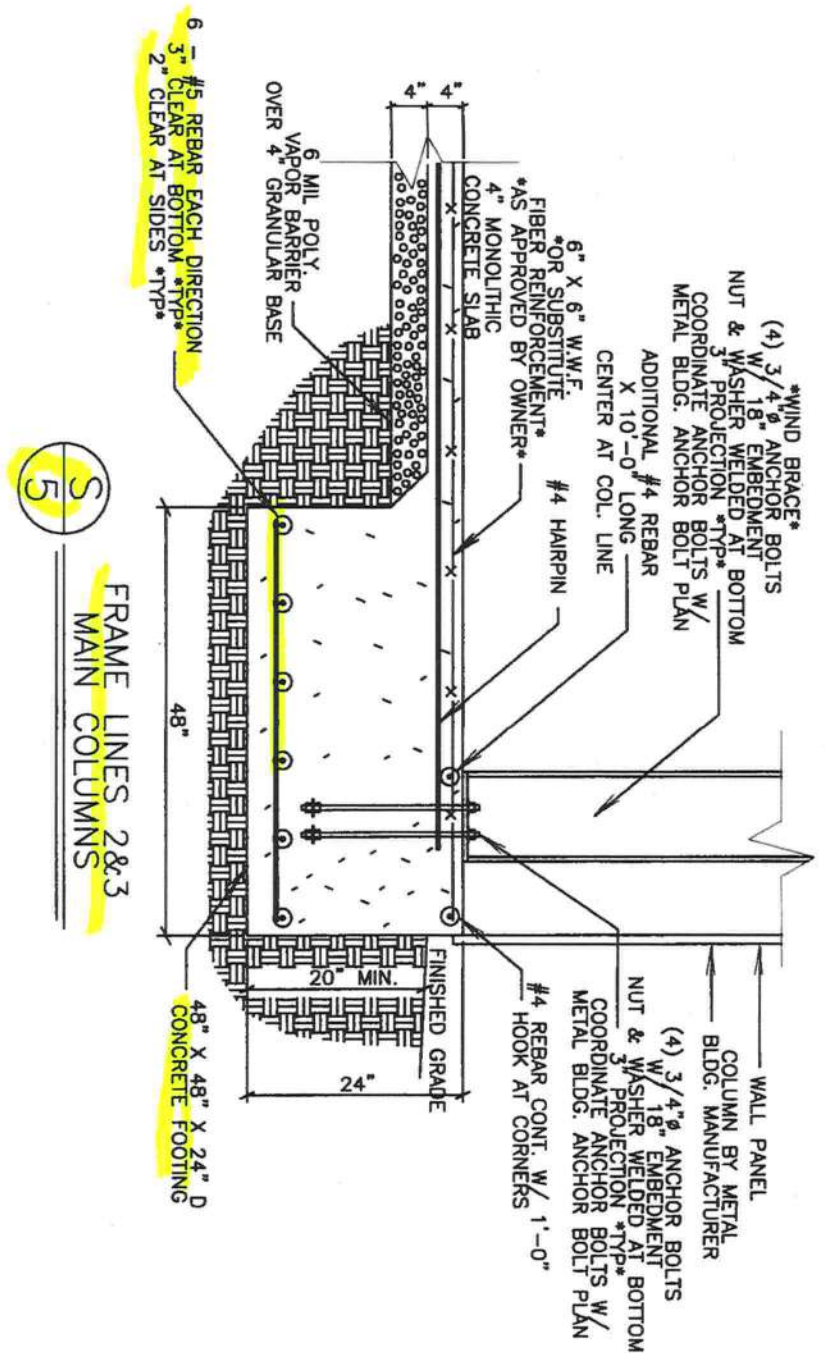
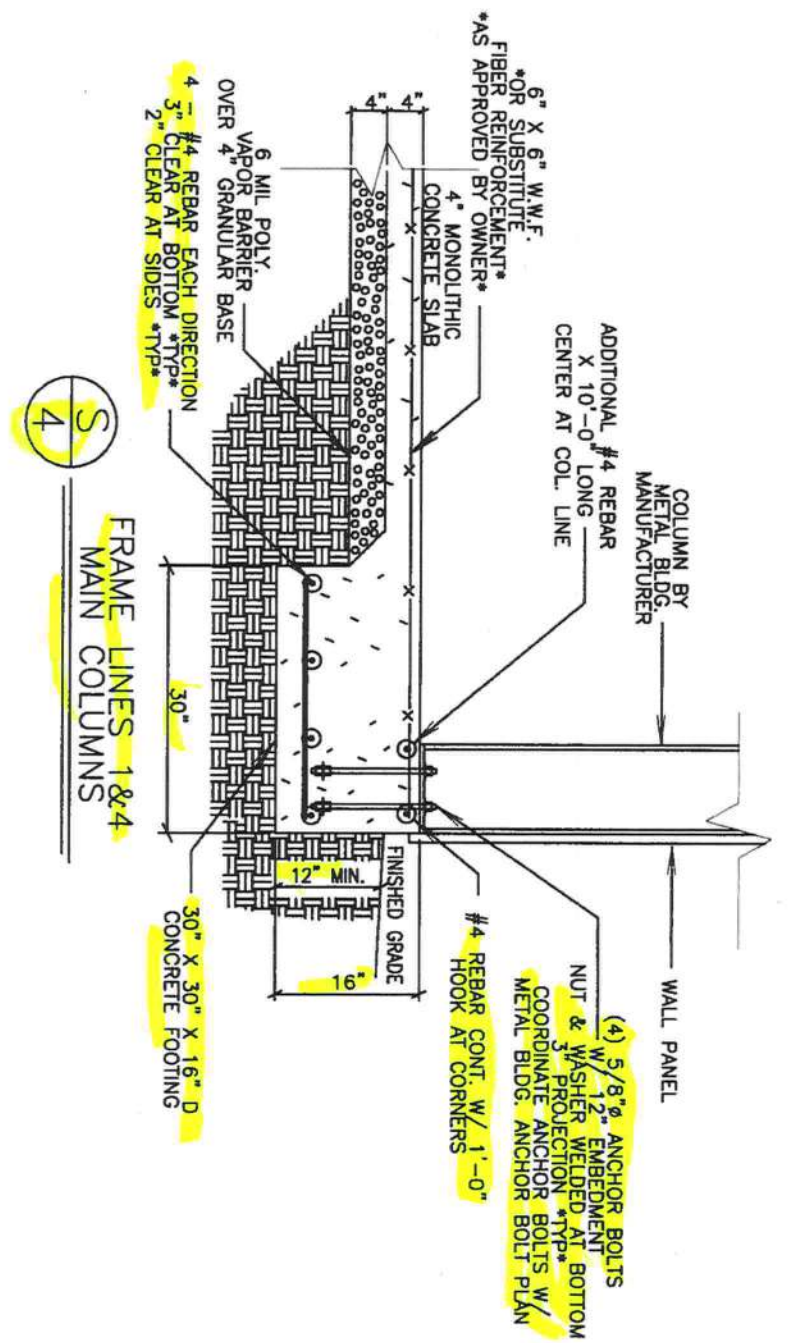
1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE *ACI 318-14*.
2. ALL CONCRETE SHALL HAVE ASTM C-53 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSI AT 28 DAYS, MIN.

1. REINFORCING STEEL SHALL BE BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60.
2. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS OTHERWISE NOTED:
 - A. FOOTINGS AND GRADE BEAMS 3 INCHES
 - B. SLABS ON GRADE 2 INCHES
3. REINFORCING STEEL SHALL BE LAPPED USING THE FOLLOWING SCHEDULE:

NO.4 = 25"	NO.5 = 31"
	NO.6 = 37"

1. FINISHED FLOOR ELEVATION IS AT 100'-0" UNLESS OTHERWISE NOTED.
2. SLAB ON GRADE IS 4 INCH NORMAL WEIGHT CONCRETE WITH 6"x6" W/1.4XW/1.4 WELDED WIRE FABRIC OR FIBER REINFORCEMENT (AS APPROVED BY OWNER) ON 6 MIL VAPOR BARRIER AND 4 INCH GRANULAR BASE.
3. CONTROL JOINTS IN CONCRETE SLABS SHALL BE SAWCUT. CONSTRUCTION JOINTS SHALL BE FORMED WITH KEYED METAL EDGE FORM MATERIAL OR EQUIVALENT.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS.
5. ALL DIMENSIONS SHOULD BE READ OR CALCULATED, NOT SCALED.
6. REFER TO METAL BUILDING DRAWINGS FOR SPECIFIC DETAILS AND INFORMATION.
7. REFER TO METAL BUILDING DRAWINGS FOR ALL ANCHOR BOLT SIZES AND LOCATIONS.
8. THE DESIGN OF THIS FOUNDATION WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015 EDITION.
9. THE CONTRACTOR SHALL EXERCISE PROPER PRECAUTION TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF WORK. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY ERROR RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION.
10. ANY DISCREPANCIES, ERRORS OR OMISSIONS DISCOVERED IN THE DOCUMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR.
11. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.





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