APPLICABLE CODES, REGULATIONS, & STANDARDS

A. THE 2020 FLORIDA BUILDING CODE
B. ASCE 7-16 & SEI 7
C. ACI 318-14 CONCRETE REFRENCE MANUAL
D. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
E. AWS D1.1: STRUCTURAL WELDING

1. THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, ELECTRICAL, PLUMBING, INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS.

2. THESE STRUCTURES ARE ENGINEERED AS (RISK CATEGORY II) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE BUILDING CODE APROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY THE CONTRACTOR, WHICH CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD.

3. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE.

4. SPECIFICATIONS APPLICABLE TO METAL PANELS FASTENED DIRECTLY TO TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, METAL PANELS SHALL BE FASTENED TO HAT CHANNELS (UNLESS OTHERWISE NOTED).

DESIGN LOAD NOTES:

1. BASIC WIND SPEED = 110 MPH
   EXPOSURE CATEGORY = C
   RISK CATEGORY = I

2. DESIGN LIVE LOAD = 10 PSF

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 30'-0" WIDE X 14'-0" EAVE HEIGHT
A-FRAME & REGULAR STYLE

MEMBER LEGEND
1. POST = 2.5"X2.5"X14GA TUBE W/ 2.25"X2.25"X14GA TUBE INSERT
2. ROOF GABLE BEAM = 2.5"X2.5"X14GA TUBE
3. BASE RAIL = 2.5"X2.5"X14GA TUBE
4. PEAK BRACE = 2.5"X2.5"X14GA TUBE/2.5"X1.5"X18GA CHANNEL
5. KNEE BRACE = 2.5"X1.5"X14GA CHANNEL
6. CONNECTOR SLEEVE = 2.25"X2.25"X12GA TUBE
7. BASE ANGLE = 2"X2"X3"X3/16" ANGLE
8. PURLIN = 4.25"X1.5"X18GA / 14GA HAT CHANNEL
9. GIRT = 4.25"X1.5"X18GA / 14GA HAT CHANNEL
10. SHEATHING = 29 GA CORRUGATED SHEET
11. END WALL POST = 2.5"X2.5"X14GA TUBE
12. DOOR POST = 2.5"X2.5"X14GA TUBE
13. SINGLE HEADER = 2.5"X2.5"X14GA TUBE
14. DOUBLE HEADER = (2) 2.5"X2.5"X14GA TUBE
15. SERVICE DOOR / WINDOW FRAMING = 2.5"X2.5"X14GA TUBE
16. ANGLE BRACKET = 2"X2"X2"X14GA ANGLE
17. STRAIGHT BRACKET = 2"X2"X4"X14GA PLATE
18. PB SUPPORT = 2.5"X2.5"X14GA TUBE
19. DIAGONAL BRACE = 2"X2"X14GA TUBE
20. GABLE BRACE = 2"X2"X14GA TUBE
21. DB BRACKET = 2.25"X2.25"X6"X14GA ANGLE
22. TRUSS SPACER = 2.5"X2.5"X14GA TUBE
23. ALL FASTENERS = #12X1" SDS (ESR-2196 OR EQ.)

FRAMING NOTES:
1. MAX POST SPACING = 4'-0" O.C.
2. MAX ROOF SLOPE = 3V:12H
3. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1” SDS (ESR-2196 OR EQUIVALENT).
6. STEEL SHEATHING SHALL BE 29GA CORRUGATED GALVANIZED OR PAINTED STEEL – MAIN RIB HEIGHT ¾” (80 KSI YIELD STRENGTH) OR EQUIVALENT.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS 2.5”X2.5”X14GA IS EQUIVALENT TO TS 2.25”X2.25”X12GA AND EITHER MAY BE USED IN LIEU OF THE OTHER.

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CRAIG E. GUNDERSON * LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Craig E Gunderson
Date: 2022.08.12 12:36:15 -04'00'

FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com
CA CERT. #30782

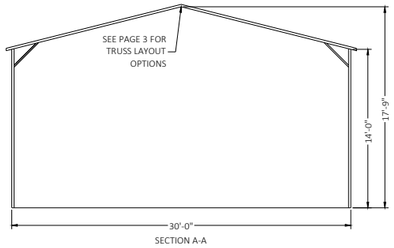
PROJECT NO. 2222202

CONTRACTOR: MARTINEZ CARPORTS LLC

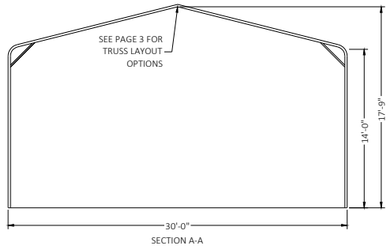
PROJECT DESCRIPTION: KASAK
812 SW KIRBY AVE
LAKE CITY FL 32025

DESIGN DATE:	08/12/2022
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KHV
SCALE:	NTS

PAGE : 1



SECTION A-A



SECTION A-A

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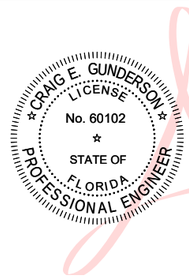

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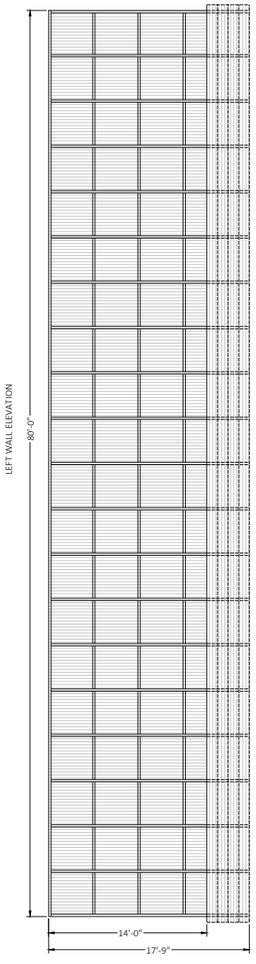
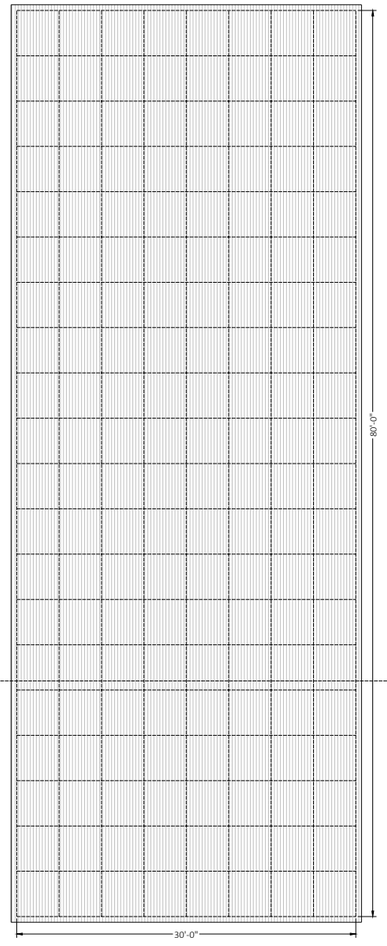
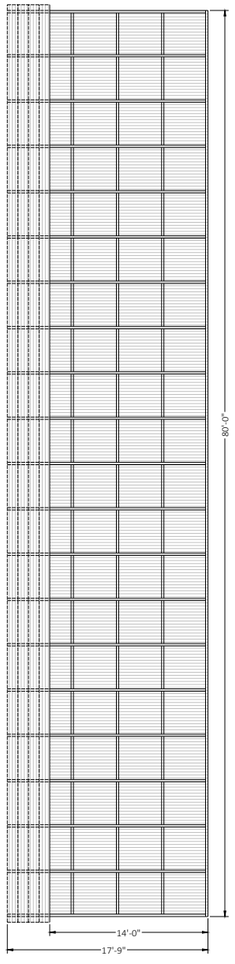
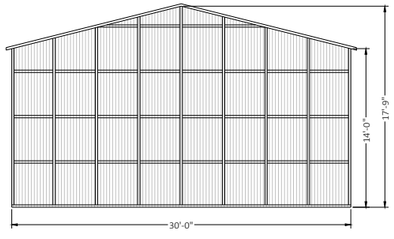




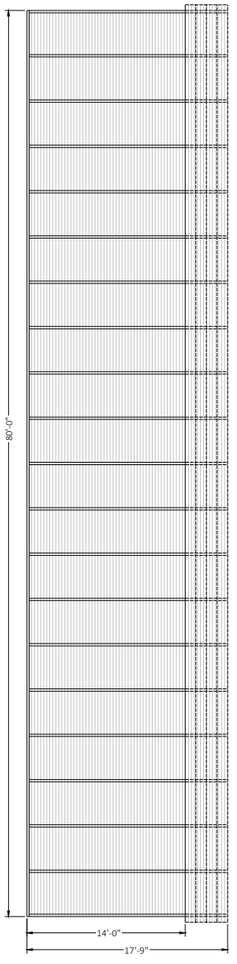


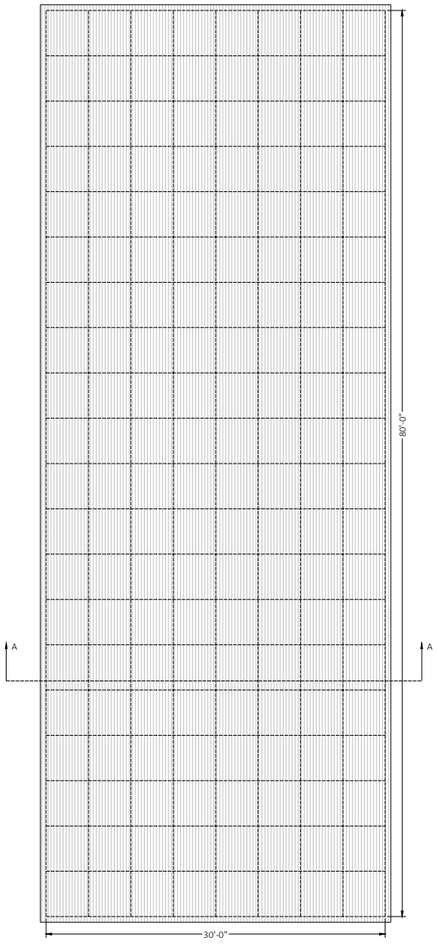


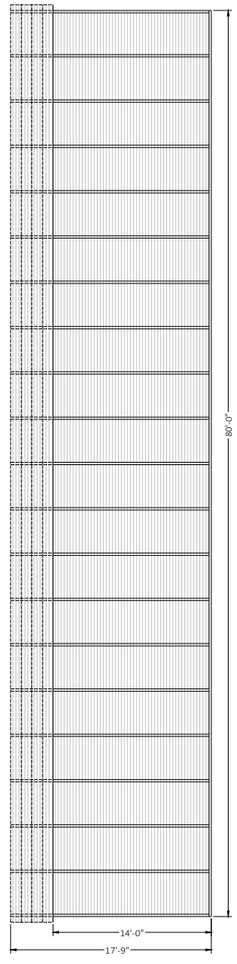
GABLE END ELEVATION

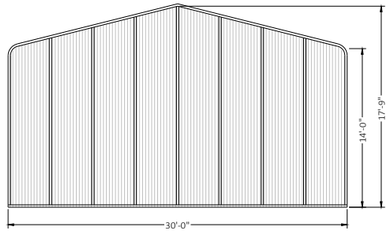
(1) SET OF GENERIC PLANS IS VALID FOR ONLY (1) STRUCTURE AT A SITE-SPECIFIC ADDRESS.
THESE PLANS CAN NOT BE DUPLICATED OR REPLICATED WITHOUT THE APPROVAL OF FLORIDA ENGINEERING LLC.

A-FRAME STYLE BUILDING









GABLE END ELEVATION

REGULAR STYLE BUILDING

FLORIDA ENGINEERING LLC
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PROJECT NO. 2222202

CONTRACTOR:
MARTINEZ CARPORTS LLC

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812 SW KIRBY AVE
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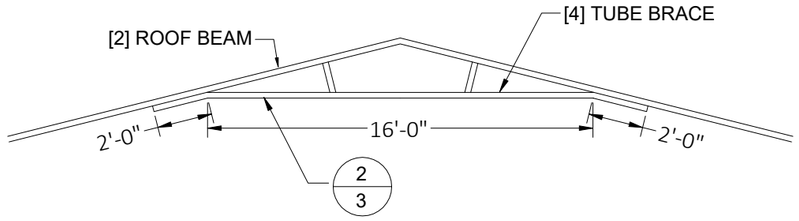
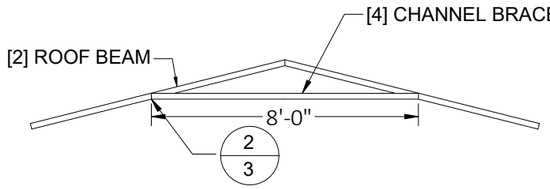
SCALE:	NTS



TUBE BRACE
TRUSS DETAIL
SCALE: N.T.S.



CHANNEL BRACE
TRUSS DETAIL
SCALE: N.T.S.

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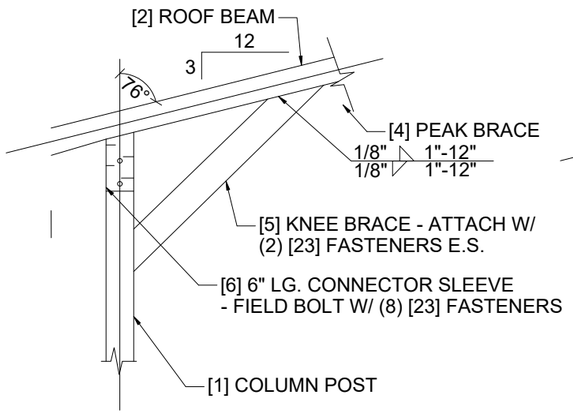
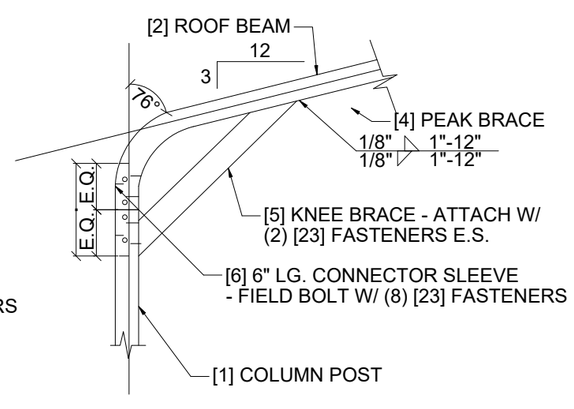
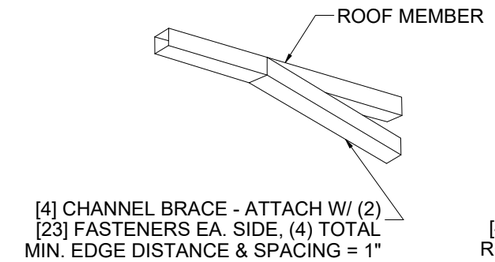


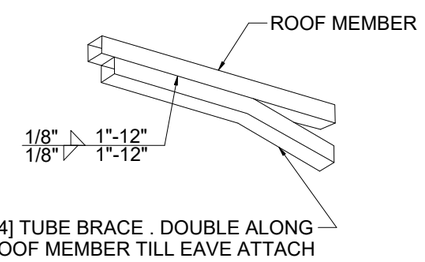
A-FRAME



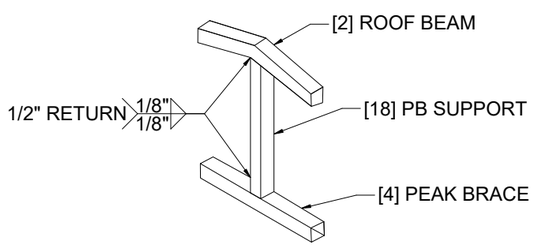
REGULAR FRAME

1. EAVE DETAIL OPTIONS

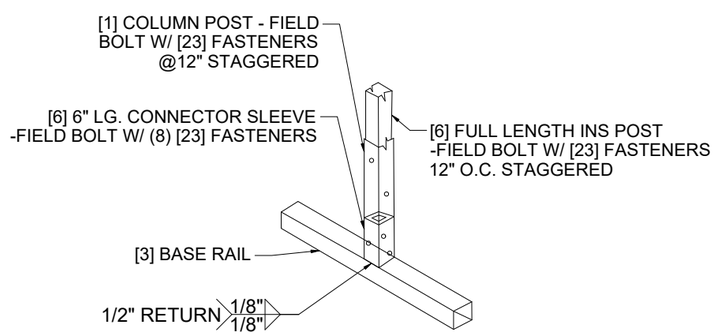




2. PEAK BRACE CONNECTION DETAILS



4. PB SUPPORT DETAIL



3. BASE DETAIL

( ) BRACKETS DENOTE QUANTITY
[ ] BRACKETS DENOTE MEMBER, SEE LEGEND ON PG. 1

NOTE : COLUMN POST MAY BE ADJUSTED +/- 1" FOR LEVELING.
MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND
AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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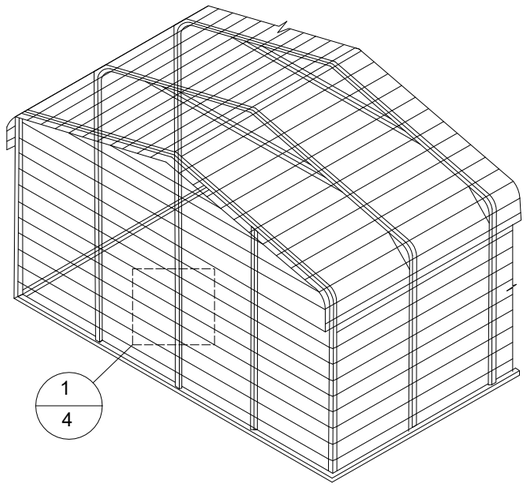
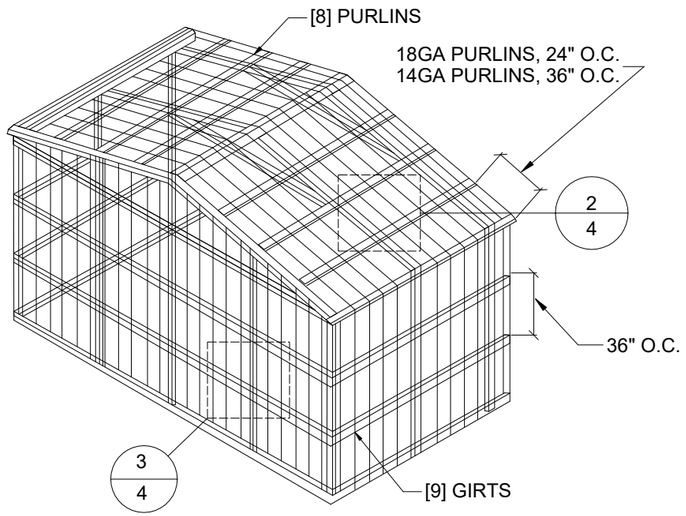


TYP. HORIZONTAL SHEATHING



TYP. VERTICAL SHEATHING

GENERAL SHEATHING NOTES:
1. REGULAR STYLE BUILDING CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A FRAME STYLE BUILDING CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOF AND WALLS.
3. BOTH HORIZONTAL AND VERTICAL ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING.
5. VERTICAL SHEATHING RECOMMENDED FOR 40'-0" WIDE BUILDING.

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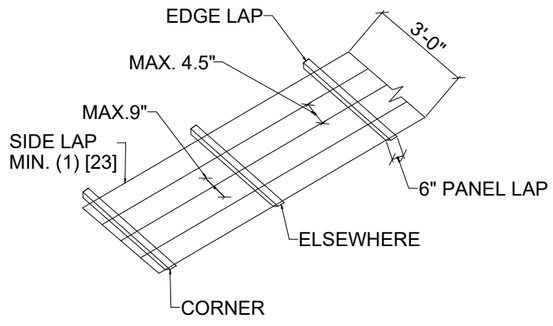
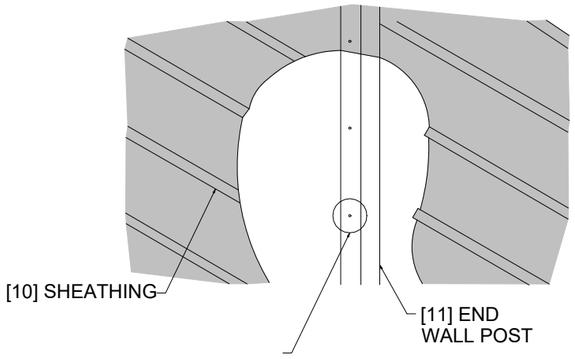
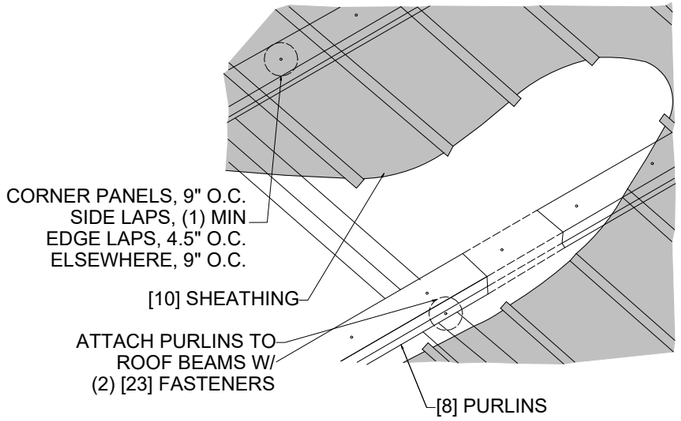


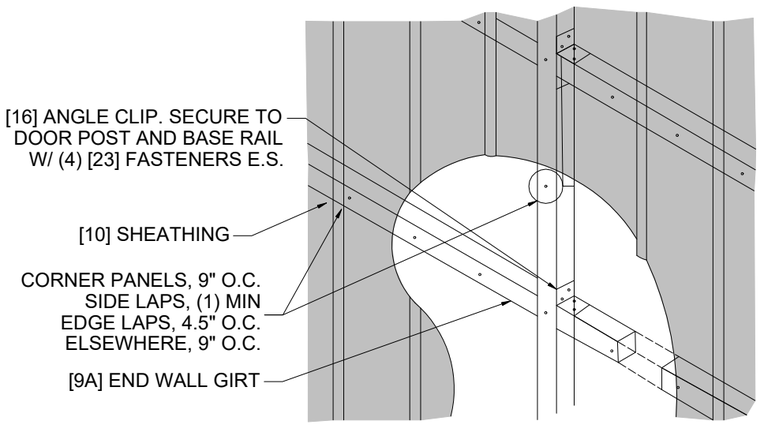
TYP. SHEATHING FASTENER SCHEDULE



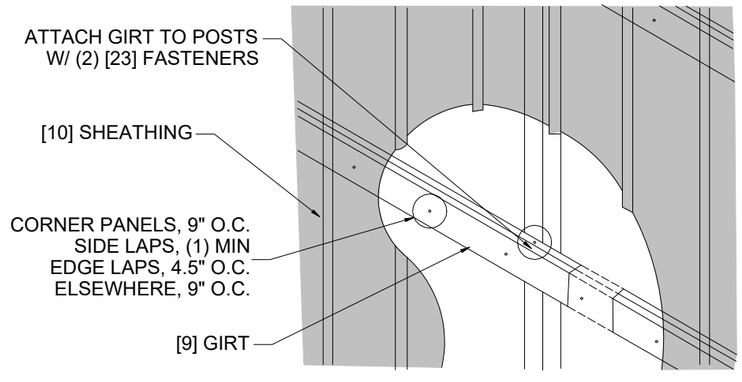
1. TYP. HORIZONTAL SHEATHING DETAILS



2. ROOF VERTICAL SHEATHING DETAILS



3. WALL VERTICAL SHEATHING- TUBE DETAILS



3. WALL VERTICAL SHEATHING- HAT CHANNEL DETAILS

( ) BRACKETS DENOTE QUANTITY
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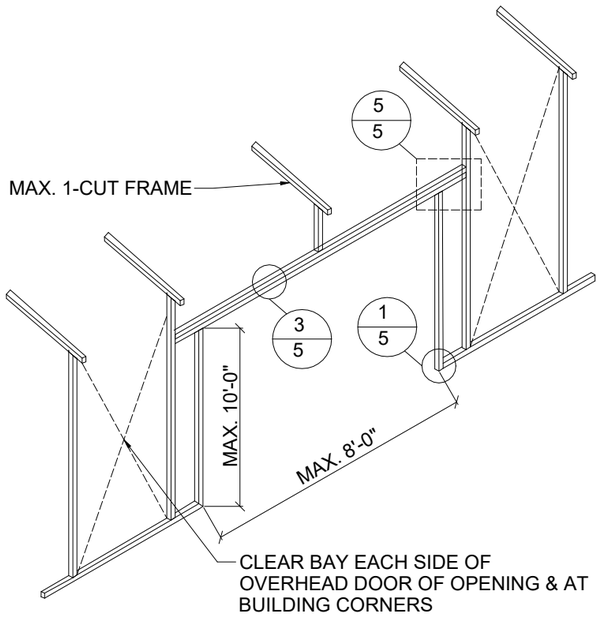
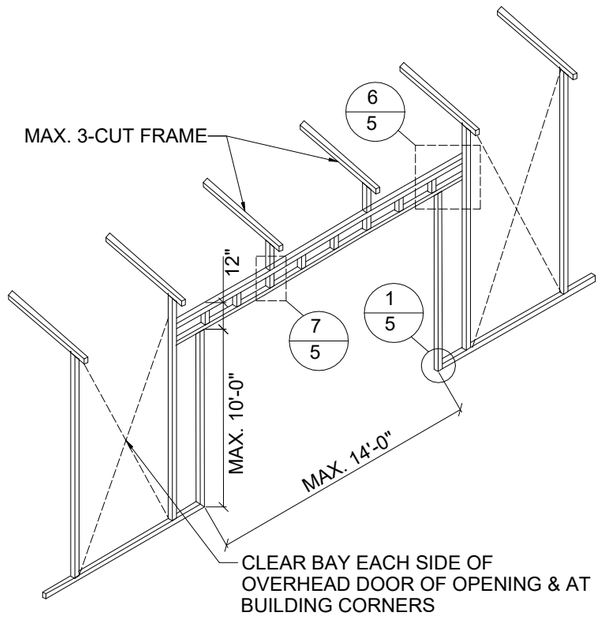
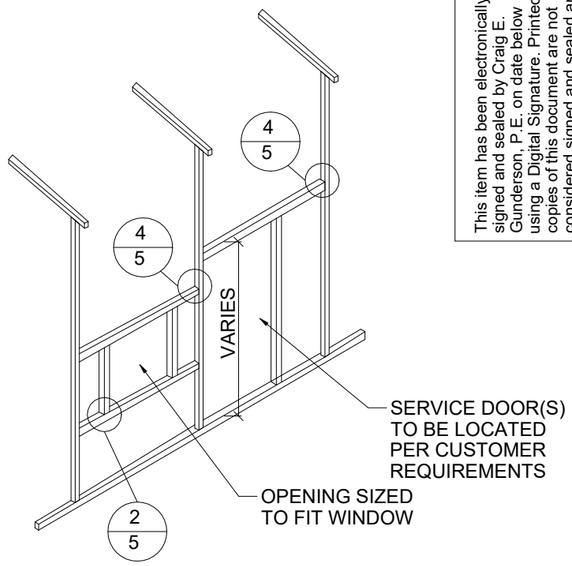


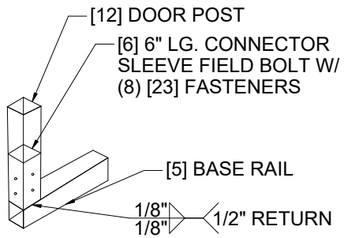
SIDE WALL OVERHEAD DOOR OPENINGS



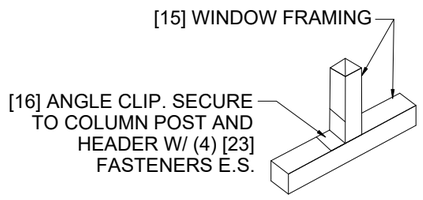
SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER



SIDE WALL SERVICE OVERHEAD DOOR/ WINDOW OPENINGS



1. DOOR POST BOT. CONN. DETAILS



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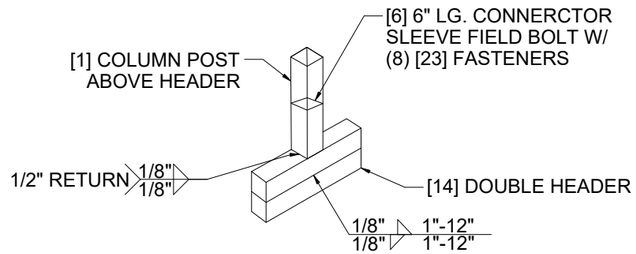
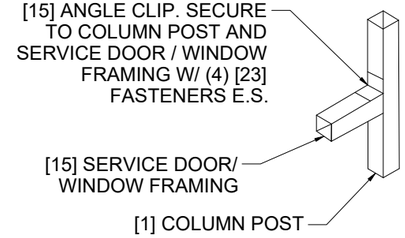
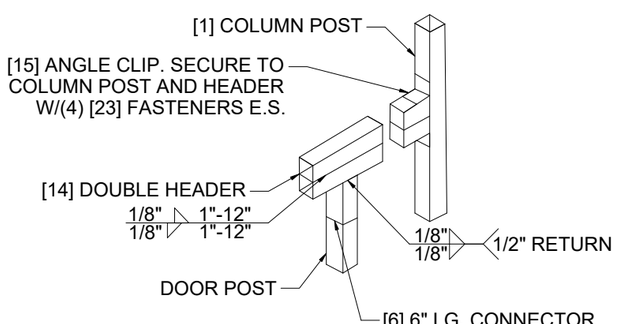


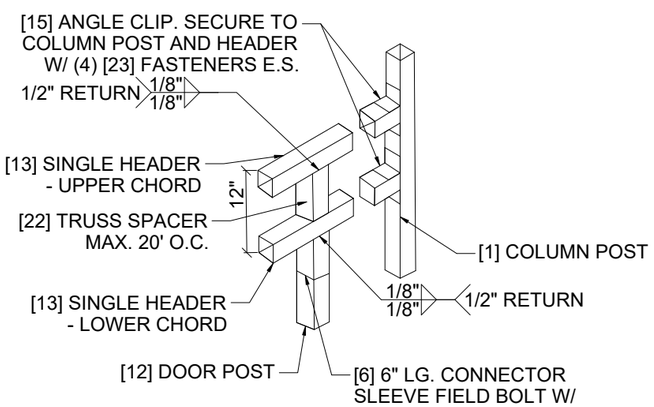
3. COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL



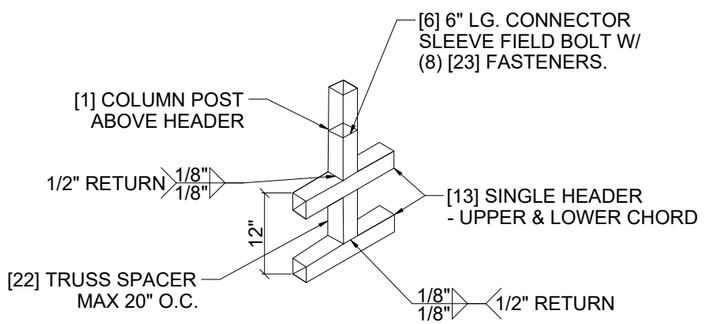
4. TYP. SERVICES DOOR/ WINDOW FRAMING CONN. DETAILS



5. COLUMN POST ABOVE DBL DOOR HEADER CONN. DETAILS



6. COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAILS



7. COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAILS

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Date: 2022.08.12 12:36:29 -04'00'

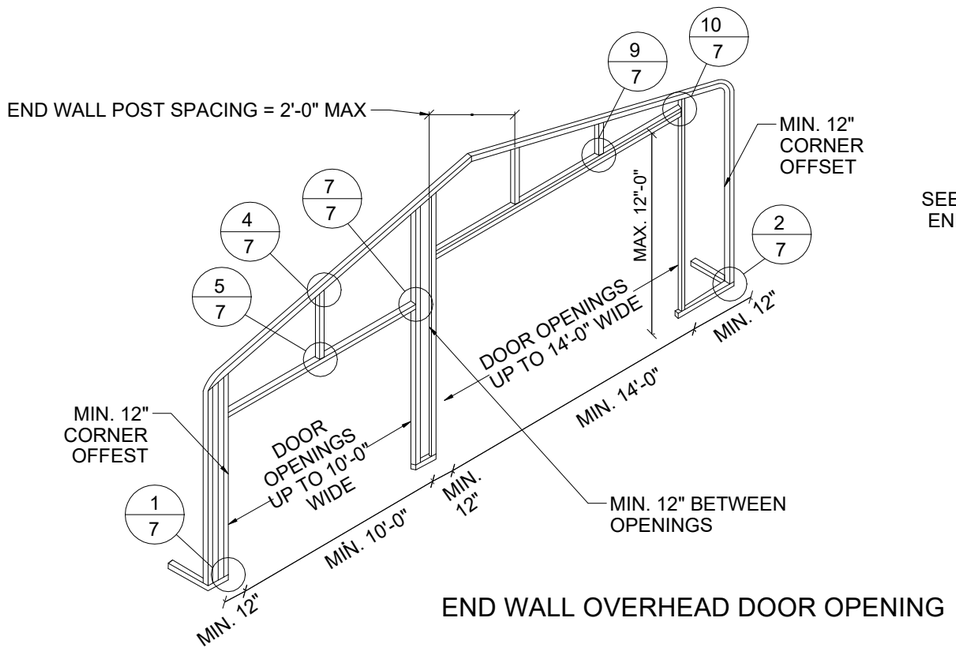
FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com
CA CERT. #30782

PROJECT NO. 2222202

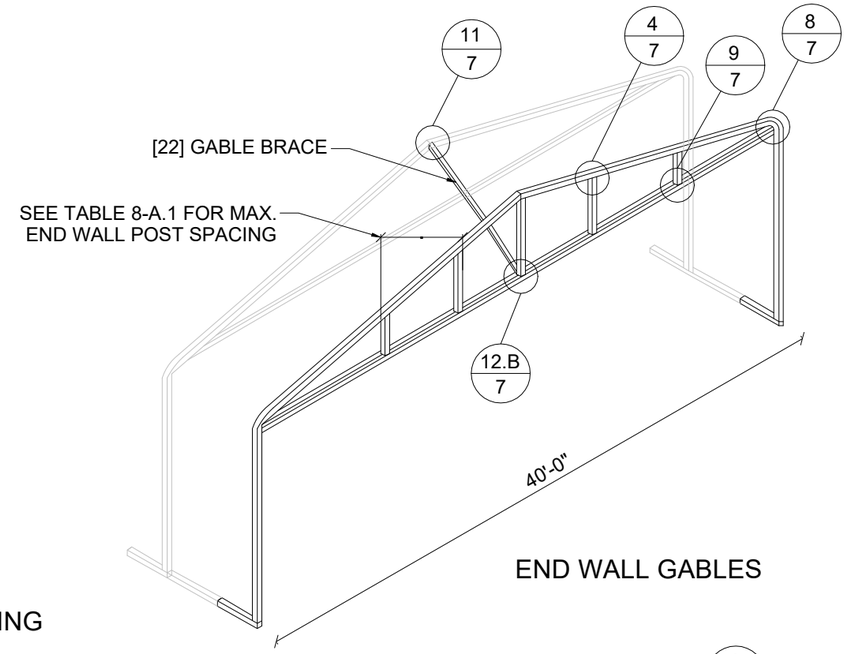
CONTRACTOR: MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION: KASAK
812 SW KIRBY AVE
LAKE CITY FL 32025

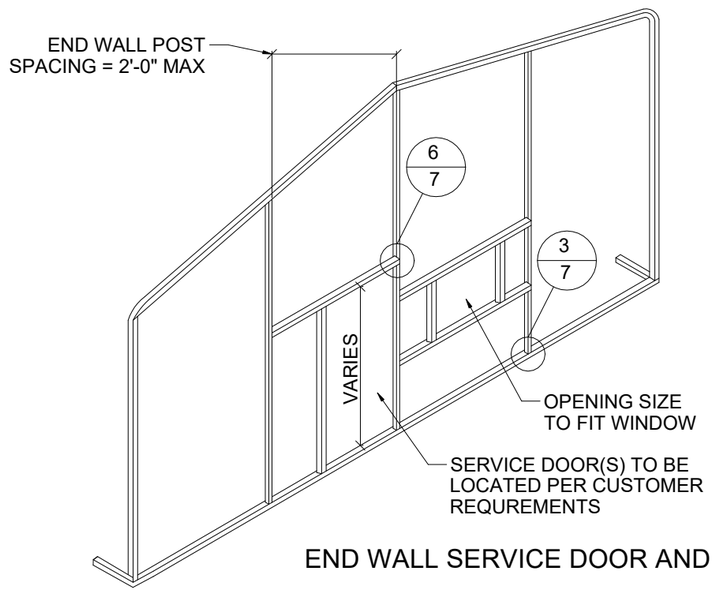
DESIGN DATE:	08/12/2022
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KHV
SCALE:	NTS



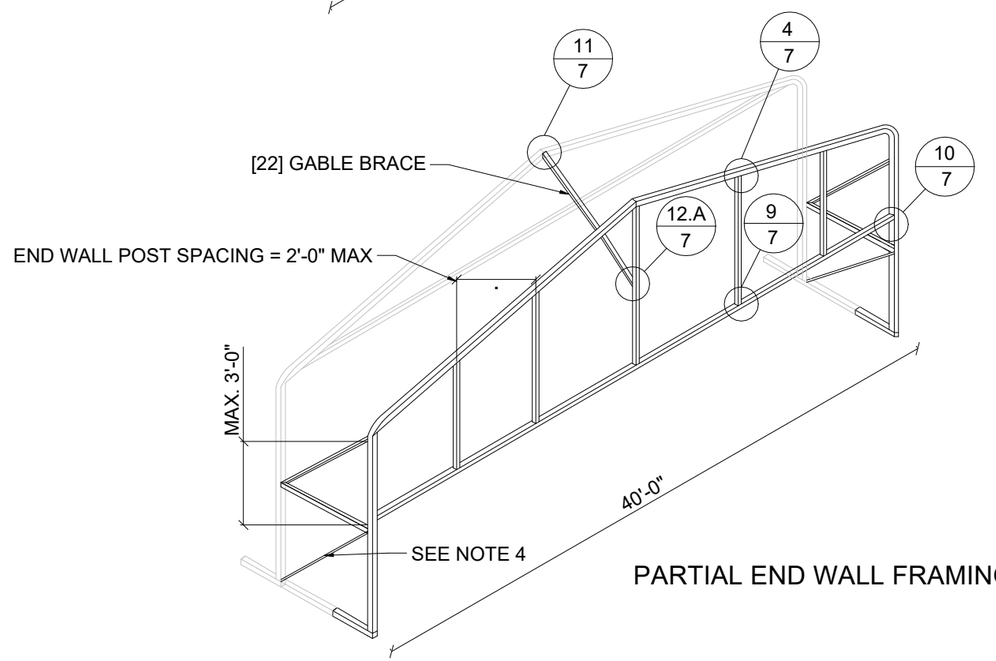
END WALL OVERHEAD DOOR OPENING



END WALL GABLES



END WALL SERVICE DOOR AND WINDOW OPENINGS



PARTIAL END WALL FRAMING

END WALL FRAMING NOTES:
1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A- FRAME STYLE BUILDING.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENING (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOOR AND WINDOW CAN BE PLACED AS NEEDED.

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PROJECT NO. 2222202

CONTRACTOR: MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION: KASAK
812 SW KIRBY AVE
LAKE CITY FL 32025

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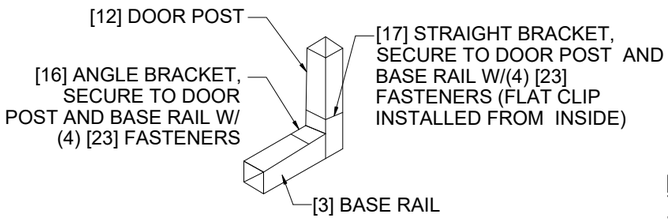
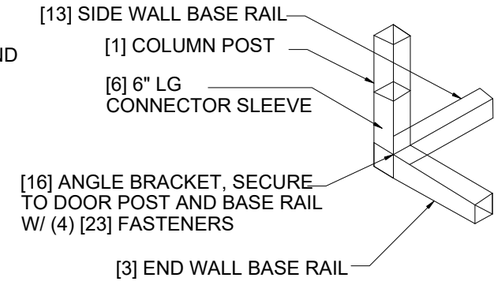
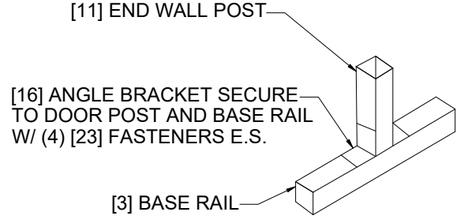


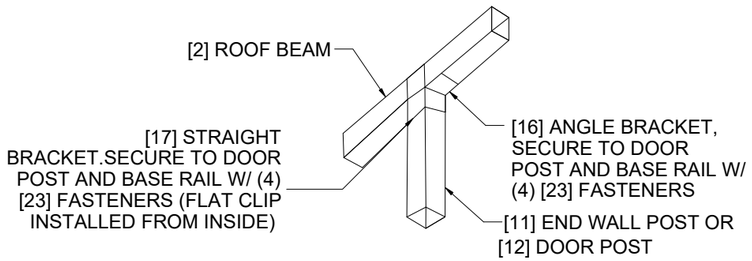
1. DOOR POST BASE RAIL CONN. DETAIL



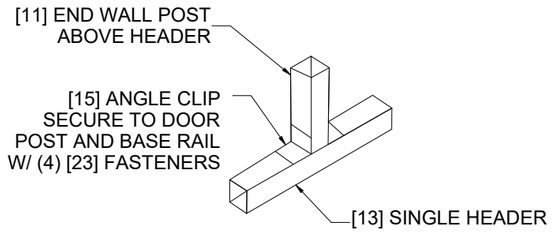
2. CORNER DETAIL



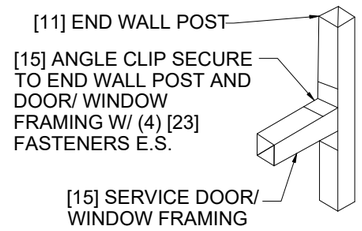
3. END WALL POST- BASE RAIL CONN. DETAIL



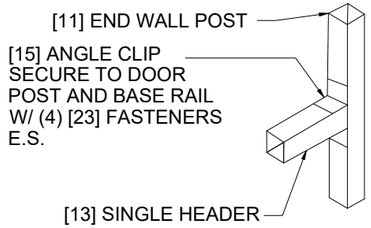
4. END WALL POST- ROOF BEAM CONN. DETAIL



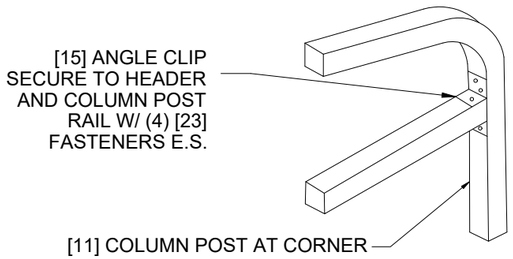
5. END WALL POST ABOVE HEADER CONN. DETAIL



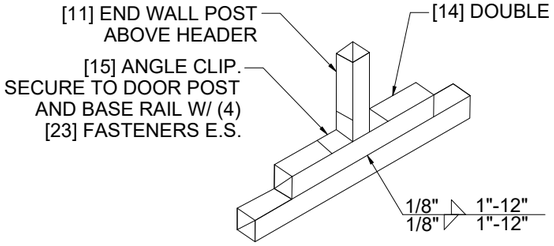
6. TYP. SERVICE DOOR/ WINDOW



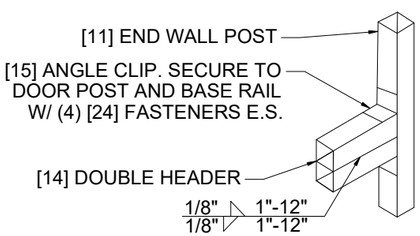
7. HEADER END WALL POST CONN. DETAIL



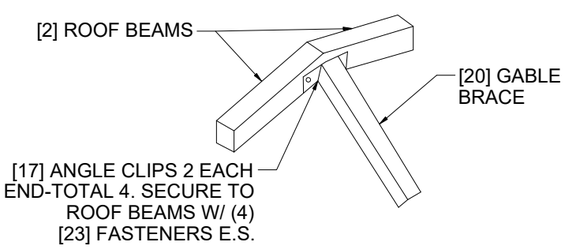
8. HEADER END WALL POST CONN. DETAIL



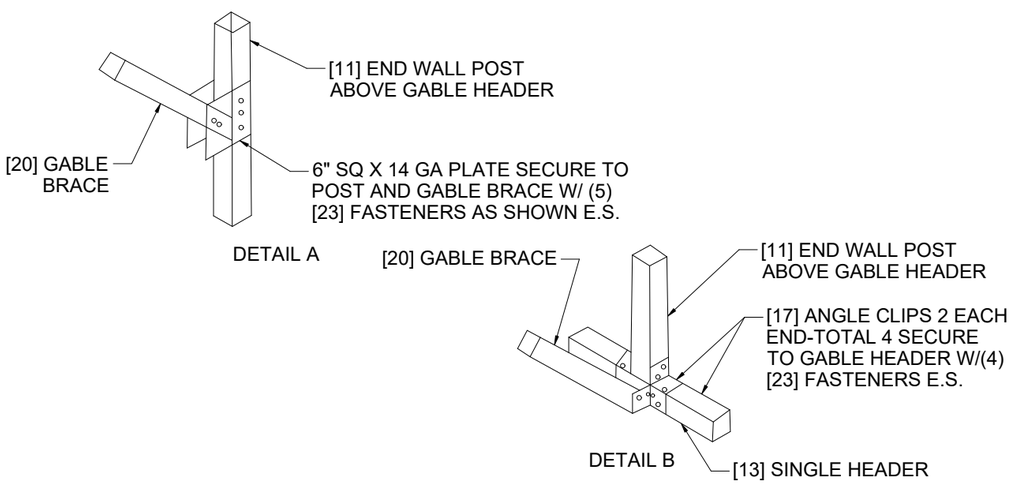
9. END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL



10. DOUBLE HEADER - END WALL POST CONN. DETAIL



11. TYP. GABLE BRACE CONN. DETAIL



12. GABLE BRACE - END WALL CONN. DETAIL

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www.flengineeringllc.com
CA CERT. #30782

PROJECT NO. 2222202

CONTRACTOR: MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION: KASAK
812 SW KIRBY AVE
LAKE CITY FL 32025

DESIGN DATE:	08/12/2022
REVISION 1:	DATE
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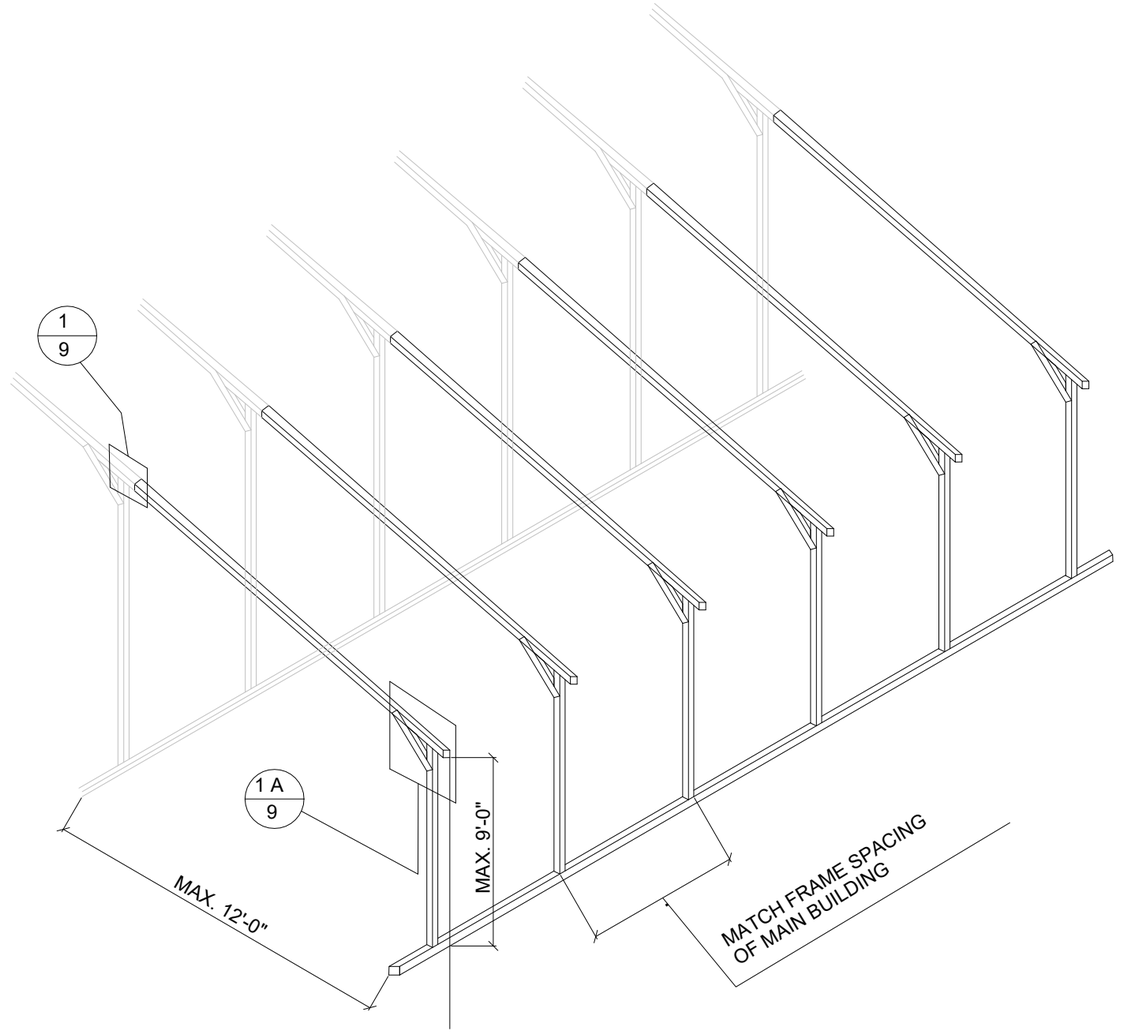
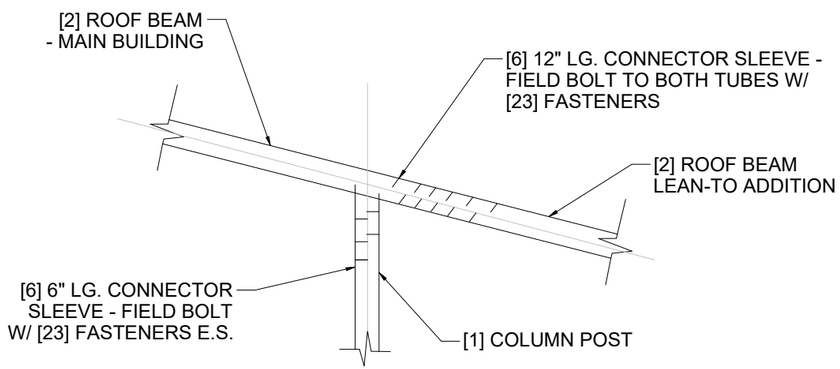
SCALE:	NTS



OPTIONAL LEAN-TO ADDITION



LEAN-TO ATTACHMENT DETAIL

LEAN-TO ADDITION NOTES:

1. LEAN-TO ADDITION CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE, PURLIN, GIRT AND FREAM SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS "OPEN" (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF 4'-0" MAX.

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LAKE CITY FL 32025

DESIGN DATE:	08/12/2022
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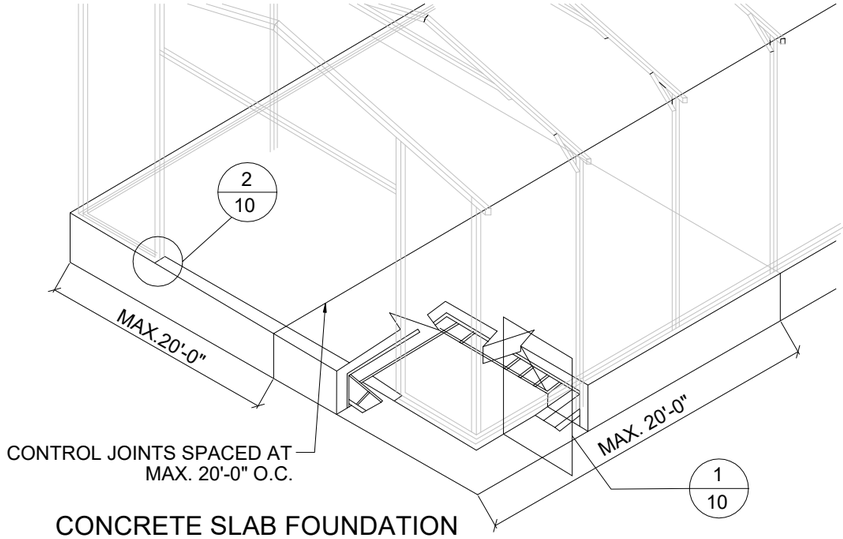
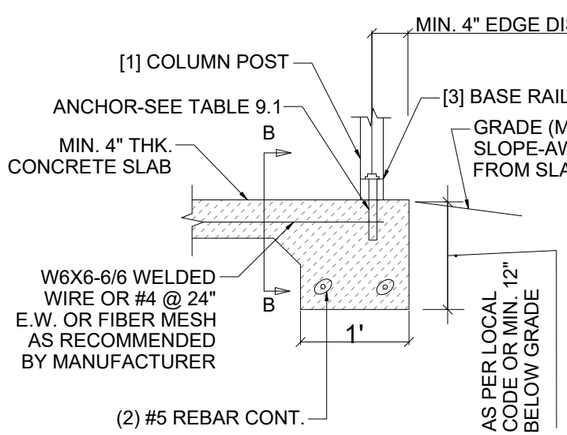
CONCRETE SLAB FOUNDATION NOTES:SLAB FOUNDATION NOTES

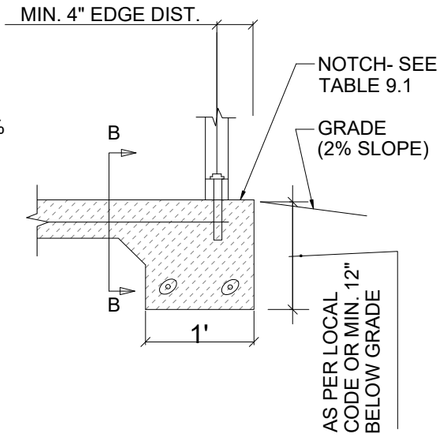
1. DESIGN SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDING WITH END WALLS. ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND,ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
4. MIN. NUMBER OF CONCRETE ANCHOR PER POST SHALL BE AS SHOWN.
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 5 $\frac{1}{2}$" FOR 14GA MATERIAL. AND 5 $\frac{3}{4}$" FOR 12GA MATERIAL.
6. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
7. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
8. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
9. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.
10. ANCHORS ARE TO BE 1/2" CONCRETE WEDGE OR EXPANSION ANCHORS.
11. MIN. EMBEDMENT DEPTH TO BE 2 $\frac{7}{8}$".
12. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



CONCRETE SLAB FOUNDATION

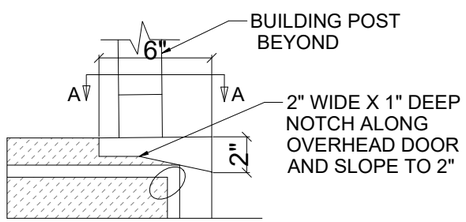


STANDARD EDGE DETAIL

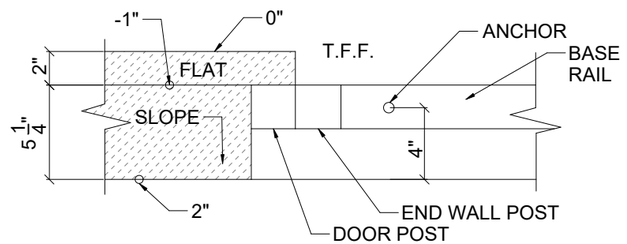


NOTCH EDGE DETAIL

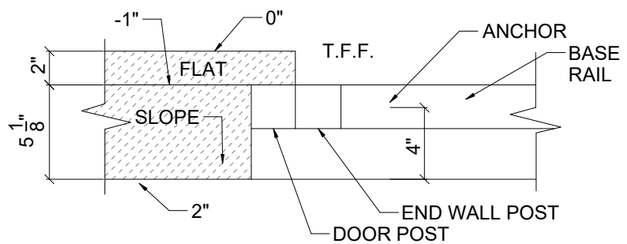
1. EDGE OFFSET DETAIL



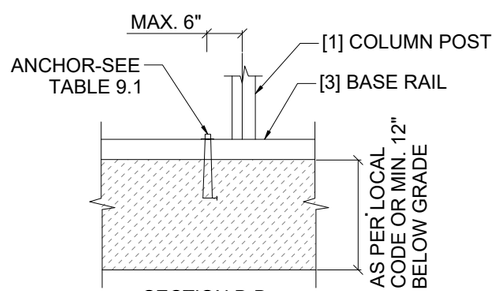
2. OVERHEAD DOOR NOTCH DETAIL



14GA SECTION A-A



12GA SECTION A-A



SECTION B-B

TABLE 9.1: NOTCH WIDTH

HORIZONTAL/OPEN		VERTICAL	
14GA	12GA	14GA	12GA
2.75"	2.875"	1.75"	1.875"

NOTE: DEPTH IS TO BE 1 1/2"

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CA CERT. #30782

PROJECT NO. 222202

CONTRACTOR: MARTINEZ CARPORTS LLC

PROJECT DESCRIPTION: KASAK
812 SW KIRBY AVE
LAKE CITY FL 32025

DESIGN DATE:	08/12/2022
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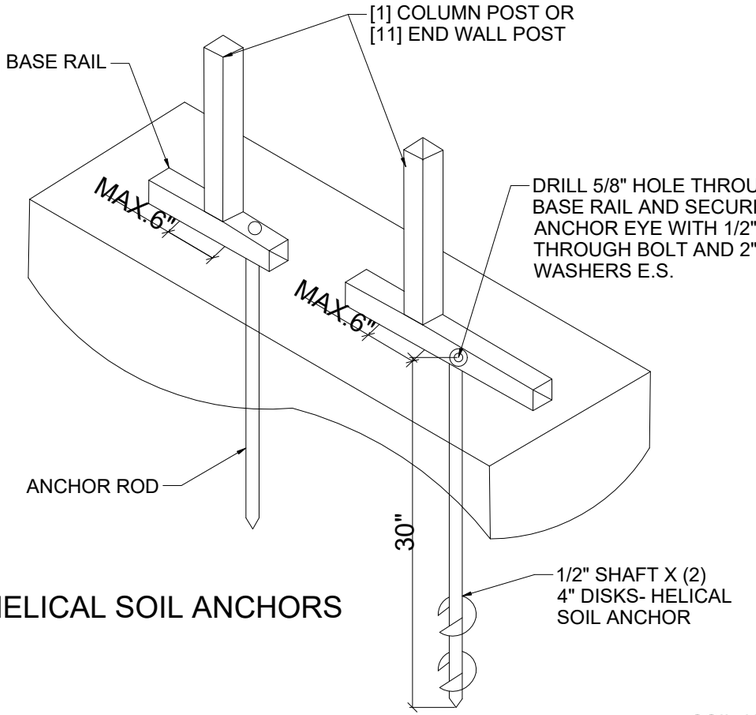
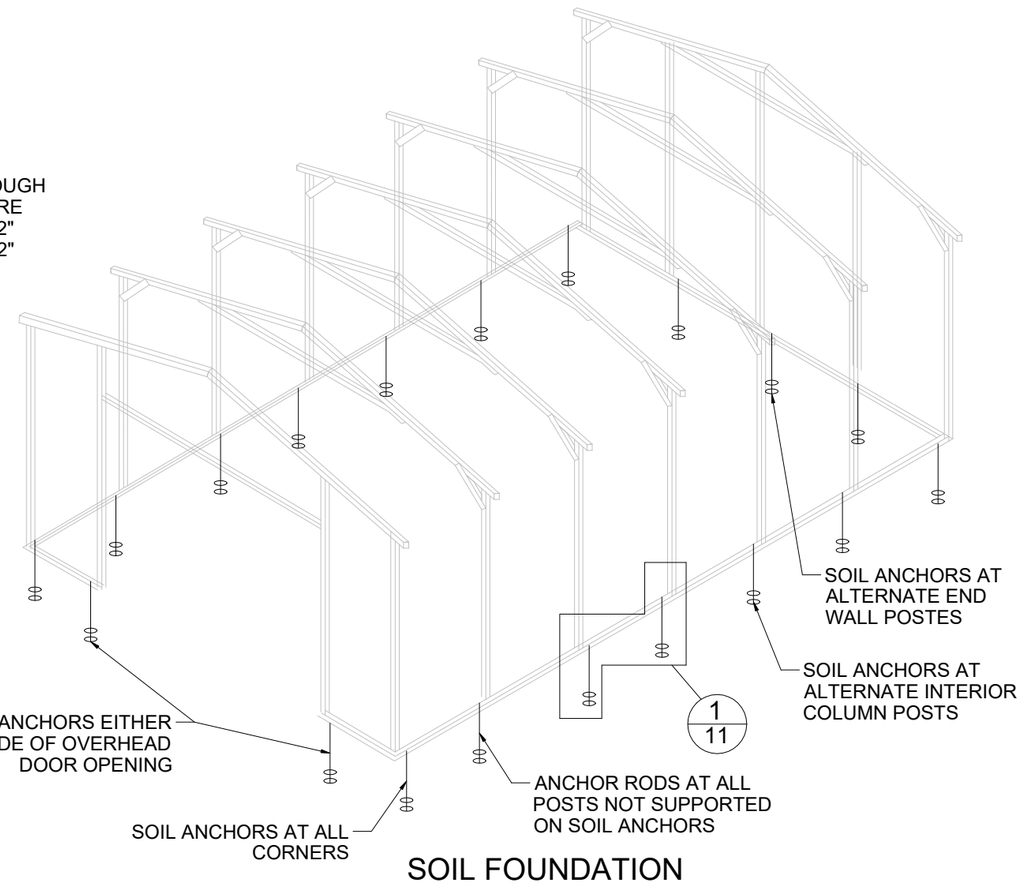


1. HELICAL SOIL ANCHORS



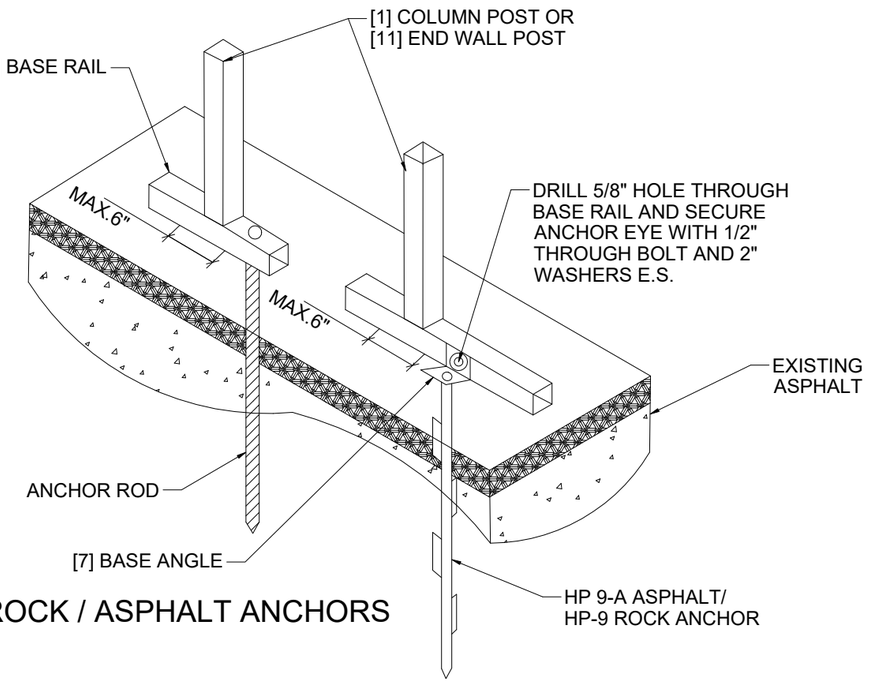
SOIL FOUNDATION

SOIL FOUNDATION NOTES:FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
2. SOIL ANCHOR (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENING. ON POSTS WITH DIAGONAL BRACING IF REQUIRED. AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
3. HELICAL ANCHOR ARE TO BE USE ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER.MANUFACTURERIS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
4. HELICAL ANCHOR CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATION THIS PAGE)
5. ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
6. ASSUME SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

SOIL CLASSIFICATIONS

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS.
3	SAND, SILTY SAND,CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SAND, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SAND,FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.



2. ROCK / ASPHALT ANCHORS

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