

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 14'-0" EAVE HEIGHT- BOX EAVE FRAME AND BOW FRAME

6 December 2012 Revision 0 M&A Project No. 12117S

Prepared for:

Mr. Danny Lowery President- Steel Structures 1660 Dixon Airline Road Augusta, Georgia 30906

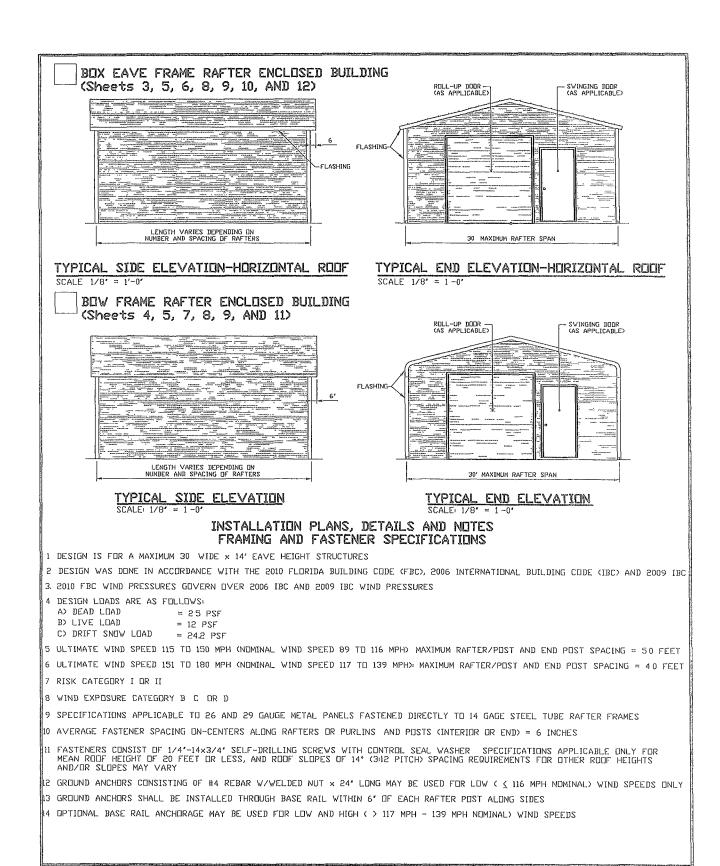


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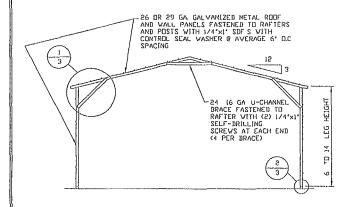
Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

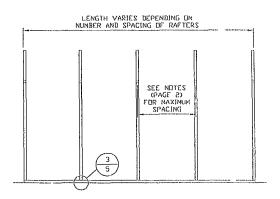


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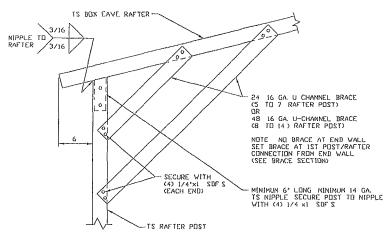


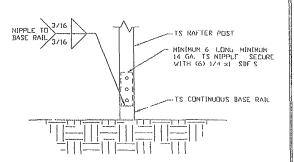
TYPICAL RAFTER/POST END FRAME SECTION

SCALE 1/8" = 1'-0"

TYPICAL RAFTER/PUST SIDE FRAMING SECTION

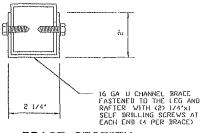
SCALE 1/8' - 1-0'





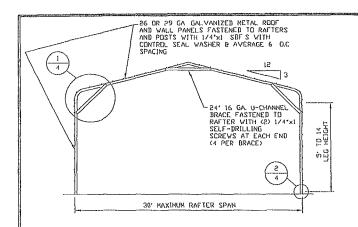
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL SCALE NTS

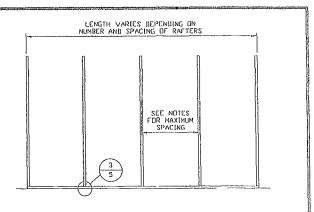
RAFTER PUST/ BASE RAIL CUNNECTION DETAIL SCALE NTS



BRACE SECTION

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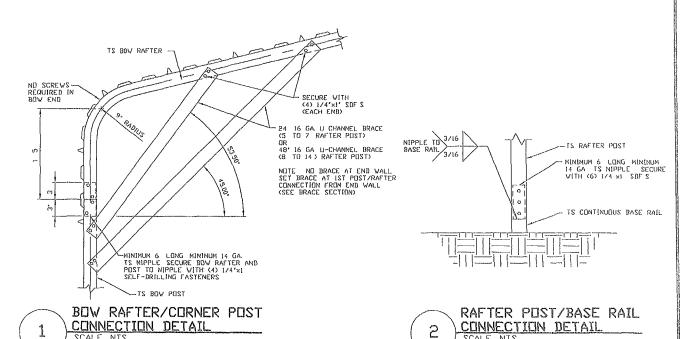


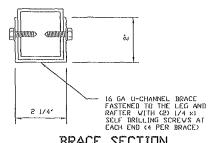


TYPICAL RAFTER/POST END FRAME SECTION

SCALE 1/8" = 1-0"

TYPICAL RAFTER/POST FRAMING SIDE SECTION SCALE 1/8" = 1-0"



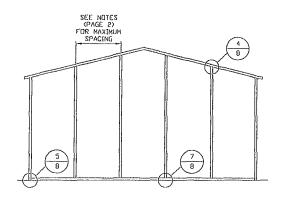


SCALE NTS

BRACE SECTION SCALE NTS

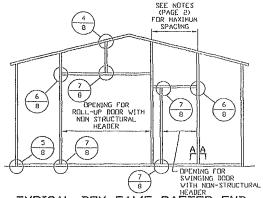
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



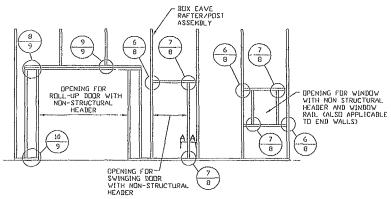
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE 1/8" = 1-0"



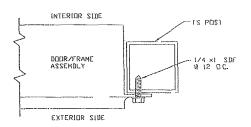
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE 1/8" = 1'-0"



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE 1/8" = 1-0"



SECTION A-A

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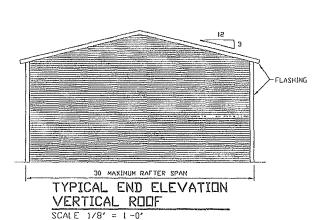
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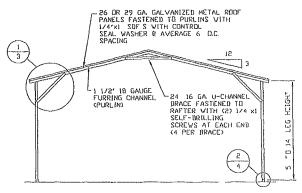
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SHT. 6 OF 12 DVG. NO. SK-3

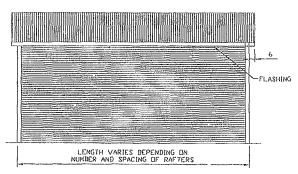
BOX EAVE RAFTER VERTICAL ROOF OPTION





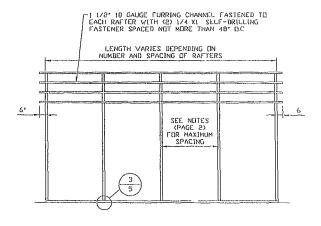
TYPICAL SECTION VERTICAL ROOF OPTION

SCALE 1/8" = 1'-0"



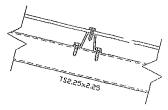
TYPICAL SIDE ELEVATION VERTICAL ROOF

SCALE 1/8" = 1 -0"



TYPICAL FRAMING SECTION VERTICAL ROOF OPTION SCALE 1/8' = 1'-0'

1 1/2' 18 GAUGE FURRING CHANNEL FASTENED TO EACH RAFTER WITH (2) 1/4 X1' SELF DRILLING FASTENER SPACED NOT MORE THAN 48 D.C.

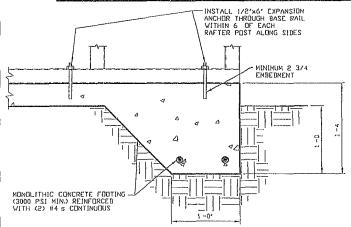


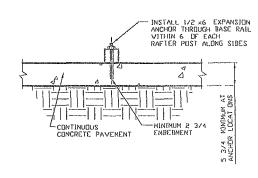
ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

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BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEEDS





3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE SCALE NTS

MINIMUM ANCHOR EDGE DISTANCE IS 6 3/4"

CONCRETE SLAB BASE RAIL ANCHORAGE **3B** SCALE NTS MINIMUM ANCHOR EDGE DISTANCE IS 6 3/4'

> TI.

DRI L 5/8 BLAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2 DIAMETER THROUGH BOLT

2 WASHERS

TOP OF ASPHALT-PAVEMENT OR GROUND SURFACE

TS CONTINUOUS BASE RAIL

DOUBLE HELIX EYE ANCHOR (SEE NOTES BELOW)

GENERAL NOTES

CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3 000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL

FOR FOUNDATIONS MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE

REINFORCING STEEL

THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60

GALVANIZATION:

METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153 CLASS B-2 METAL PLATE CONNECTORS SCREWS BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT MEDICAL FOR THE STAINLESS STEEL OR HOT DIPPED GALVANIZED

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

1 REINFORCEMENT IS BENT COLD;
2 THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR IS NOT LESS THAN SIX-BAR DIAMETERS; AND
3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

BE FIELD BENT

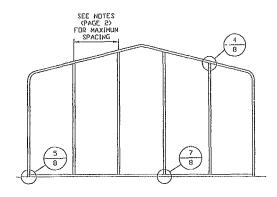
GROUND BASE HELIX ANCHORAGE 3C (CAN BE USED FOR ASPHALT)

HELIX ANCHOR NOTES

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS COARSE GRAVEL AND COBBLES CALICHE PRELOADED SILTS AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 3 FUR MEDIUM DENSE COARSE SANDS SANDY GRAVELS VERY STIFF SILITS AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 4 FOR LODGE TO MEDIUM DENSE SANDS FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50 INCH EMBEDMENT
- 5 FOR VERY LOSE TO MEDIUM DENSE SANDS FIRM TO STIFFER CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 8' HELICES VITH MINIMUM 60 INCH EMBEDMENT

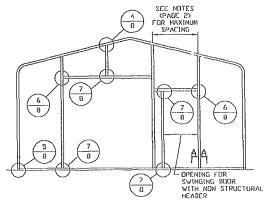
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BOW RAFTER END WALL AND WALL OPENINGS



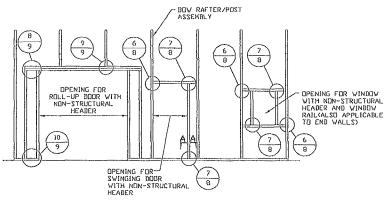
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE 1/8" = 1-0"



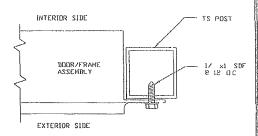
TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE 1/8" = 1 -0"



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE 1/8' = 1'-0"



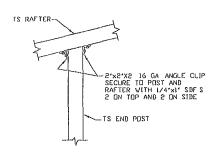
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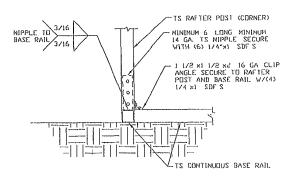
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BOX EAVE RAFTER WALL OPENING DETAILS





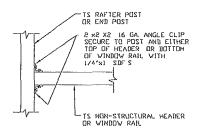


5 END POST/BASE RAIL CONNECTION DETAIL SCALE NTS

TS END POST DR DOOR VINDOW FRAME POST

TS NON-STRUCTURAL HEADER BASE RAIL OR WINDOW RAIL

SCALE NTS



NON-STRUCTURAL HEADER
OR WINDOW RAIL TO POST
CONNECTION DETAIL
SCALE NTS

6

POST TO NON-STRUCTURAL HEADER,
BASE RAIL, OR WINDOW RAIL
CONNECTION DETAIL

TS TRUSSED RAFTER CHORD OR NON STRUCTURAL HEADER

> -2 x2 x2 16 CA, ANGLE CLIF SECURE TO POST (EACH SIDE) AND RAFTER CHORD/RAIL VITH 1/4 x) SDF S 2 DN BOTTOM AND 2 ON SIDE

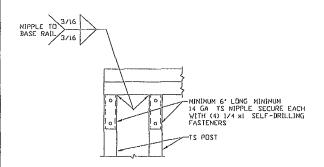
NOTE AT ROLL-UP DOOR OPENINGS POST SHOULD BE FLUSH WITH RAIL END. CLIP POST TO RAIL ONLY ON SIDE OPPOSITE THE OPENING

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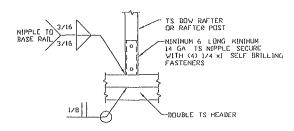
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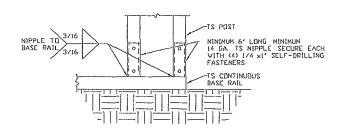
BOX EAVE RAFTER WALL OPENING DETAILS



B DOUBLE HEADER/POST CONNECTION DETAIL

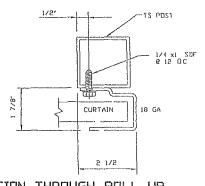


9 RAFTER POST/DOUBLE HEADER CONNECTION DETAIL
SCALE NTS



RAFTER POST/BASE RAIL CONNECTION DETAIL

SCALE NTS

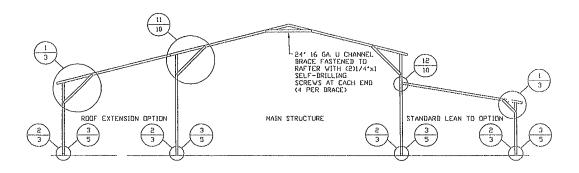


SECTION THROUGH ROLL UP DOOR HEADER

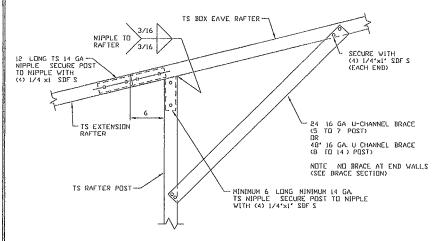
SCALE NTS NOTE CURTAIN IS 26 GA GALVANIZED STEEL WITH BAKED ON EPOXY PRIMER & POLYESTER TOP COAT

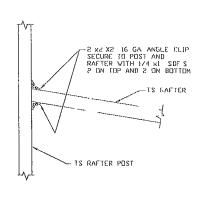
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BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)





SIDE EXTENSION RAFTER/
CORNER POST DETAIL

SCALE NTS

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL

SCALE: NTS

12

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