

# STRUCTURAL DESIGN

# **ENCLOSED BUILDING**

# MAXIMUM 30'- 0" WIDE X 16'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

2 May 2019 Revision 1 M&A Project No. 17270S/19118S

Prepared for:

GA Southern Steel Buildings Inc. 1086 Gene McQueen Road Moultrie, GA 31788

Prepared by:

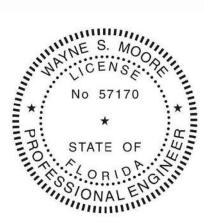
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 S. Main Street, Suite 200 Mount Airy, NC 27030

Digitally signed by Wayne S Moore Date: 2020.06.03 15:16:57 -04'00'





This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

					Y	
				arright.	NE S. MO	
				* PROKKI	No 57170  * STATE OF  ORIO  has been electronical Wayne S. Moore, PE.	MANUAL MA
				using a Di Printed co considere	has been electronical Wayne S. Mcore, PE. gital Signature and da opies of this documen d signed and sealed a must be verified on a	te. t are not nd the
MOORE AND A ENGINEERING AND C	CONSULTING, INC.	CHEC	WN BY: SH CKED BY: JM	30'-0"x10	HERN STEEL BUI 5'-0" ENCLOSED S E SEAL COVER SI	TRUCTURE HEET
THIS DOCUMENT IS THE PROPERTY OF MODRE A CONSULTING. THE UNAUTHORIZED REPRODUCTION THIS DOCUMENT IS STRICTLY PROHIBITED AND BE SUBJECT TO LEGAL ACTION.	ND ASSOCIATES ENGINEERING AND I, COPYING, OR OTHERVISE USE OF ANY INFRINGEMENT THEREUPON MAY		UECT MGR: VSM	DATE: 5-2-19 SHT. 1	SCALE: NTS DWG. NO: SK-3	JOB NO: 17270S/19118S REV: 1

# DRAWING INDEX

SHEET SHEET SHEET SHEET SHEET	2 3 4	PE SEAL COVER SHEET  DRAWING INDEX  INSTALLATION NOTES  SPECIFICATIONS AND TYPICAL SIDE AND END ELEVATIONS  TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTIONS  (BOX EAVE RAFTER)
SHEET	6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET	7	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET	8	COLUMN CONNECTION DETAILS (BOW RAFTER)
SHEET	9	OPTIONAL BASE RAIL ANCHORAGE
SHEET	10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE)
SHEET	11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER)
SHEET	12	WALL OPENING DETAILS
SHEET	13	WALL OPENING DETAILS
SHEET	14	WALL OPENING DETAILS
SHEET	15	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET	16	LEAN-TO OPTIONS (BOW RAFTER)
SHEET	17	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: SH		THERN STEEL I 86 GENE McQUI MOULTRIE, G	EEN RO	)AD ´
	CHECKED BY: JM	30'-0"x	16'-0" ENCLÓSE	ED STRU	JCTURE
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS	JOB 1727	ND: 0S/19118S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEHENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: GA SOUTHERN	SHT. 2	DWG. NO: SK-	3	REV: 1

#### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC) AND 2015 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:
  - A) DEAD LOAD
- = 1.5 PSF
- B) LIVE LOAD
- = 12 PSF
- C) GROUND SNOW LOAD = 15 PSF (< 24'-0' WITH U-CHANNEL RAFTER TIE)
  NOTE: UNBALANCED SNOW LOADING DUE TO DRIFTING HAS NOT BEEN ANALYZED.
- 4. ULTIMATE LOW WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH). MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 5. ULTIMATE HIGH WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH). MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7. WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2' × 2 1/2' 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR LOW WIND OR 2 1/4' × 2 1/4' 12 GAUGE TUBE STEEL (TS) FOR HIGH WIND (UNLESS NOTED OTHERWISE)
- 9. AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8° D.C. (MAX.) FOR (LV), 6° D.C. (MAX.) FOR (HW).
- 10. FASTENERS CONSIST OF #12-14×3/4' SELF-DRILLING FASTENER (SDF) FOR LOW WIND OR 1/4'x3/4' SELF DRILLING FASTENER (SDF) FOR HIGH WIND, USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14' (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- 12. GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30' LONG MAY BE USED IN SUITABLE SDIL CONDITIONS. FOR WIND V ≤ 145 MPH, □PTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED IN UNSUITABLE SDILS AND FOR WIND V > 145 MPH.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I/II/III

R= 3.25

I<sub>E</sub>= 1.0

g 980.5 = 202

V= CsW

S<sub>DI</sub>= 1.258 g



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

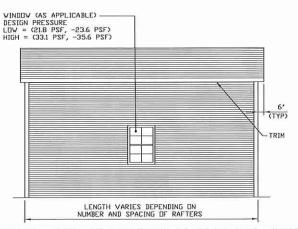
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIAT	TES
ENGINEERING AND CONSULT	ING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: SH		THERN STEEL 86 GENE McQU MOULTRIE, G	EEN R	OAD ´	
CHECKED BY: JM	30'-0"x	16'-0" ENCLÓSI			
PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS		3 NO: 70S/19118S	
CLIENT: GA SOUTHERN	SHT. 3	DVG. NO: SK-	3	REV.: 1	

#### BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 5, 6, 10, 15, AND 17)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

ROLL-UP DOOR

(AS APPLICABLE)

DESIGN PRESSURE

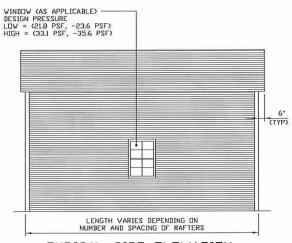
LDW = (20.8 PSF, -20.4 PSF)

HIGH = (27.95 PSF, -30.7 PSF)

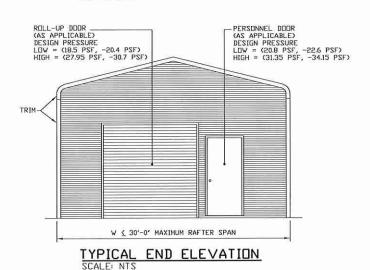
TRIM
W \( \) 30'-0' MAXIMUM RAFTER SPAN

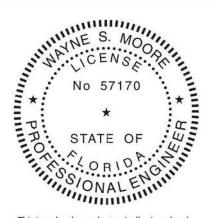
TYPICAL END ELEVATION-HORIZONTAL ROOF

## BOW FRAME RAFTER STRUCTURE (Sheets 4, 7, 8, 11, AND 16)



# TYPICAL SIDE ELEVATION





This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DWG. NO: SK-3

REV.: 1

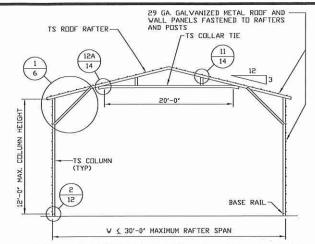
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGI	NEERING AND
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHER	RVISE USE OF
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT T BE SUBJECT TO LEGAL ACTION.	HEREUPUN HAT

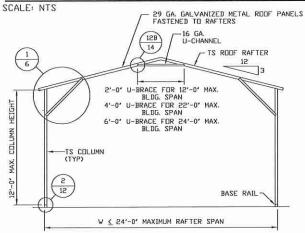
PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS	JOB NO: 17270S/19118S	
CHECKED BY: JM	30'-0"x	MOULTRIE, G 16'-0" ENCLOSE	A 31788 ED STRUCTURE	
DRAWN BY: SH		86 GENE McQU	EEN ROAD	

SHT. 4

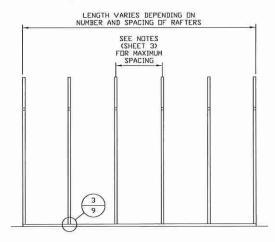
CLIENT: GA SOUTHERN



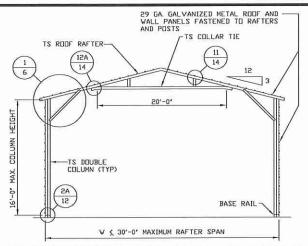
## TYPICAL RAFTER/COLUMN FRAME SECTION



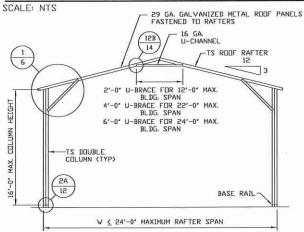
# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



#### TYPICAL RAFTER/COLUMN FRAME SECTION

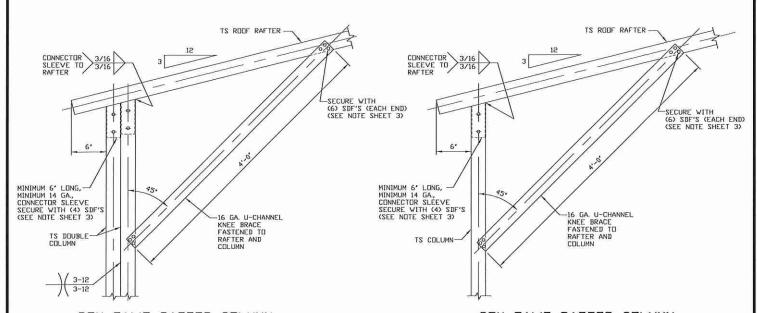


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	DRAWN BY: SH		OUTHERN STEEL 1 1086 GENE McQU	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: JM	30'-0'	MOULTRIE, G. 'x16'-0" ENCLOSE	
THIS DOCUMENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 5-2-19	SCALE: NTS	JOB NO: 17270S/19118S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: GA SOUTHERN	SHT. 5	DWG. NO: SK-3	REV.: 1

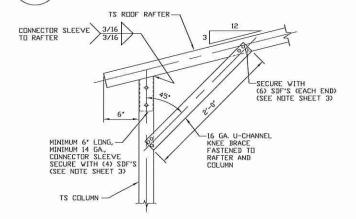


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < T□ < 16'-0" (HW & LW) SCALE: NTS

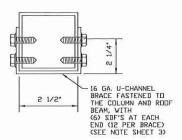
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < T□ < 12'-0" (HW & LW)

SCALE: NTS

1B



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0" (HW & LW) 1C SCALE: NTS



BRACE SECTION SCALE: NTS

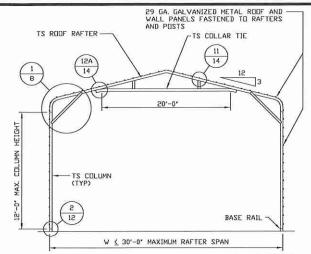


This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

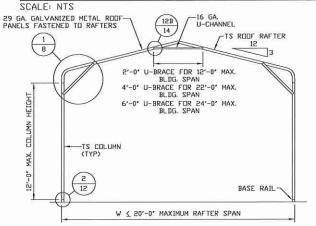
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DOCUMENT I	S THE PROPERTY OF	HOORE AND	ASSOCIATES EN	GINEERING AND
CONSULTING THE	UNAUTHORIZED REPI	RODUCTION, CO	PYING, OR OTH	ERVISE USE OF
THIS DOCUMENT I	S STRICTLY PROHIB	TED AND ANY	INFRINGEHENT	THEREUPON MAY
BE SUBJECT TO			Harry Chr. Constitution (	

	DRAWN BY: SH	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD				
	CHECKED BY: JM	30'-0"x	MOULTRIE, GA 16'-0" ENCLOSEI			
_	PROJECT MGR: VSM	DATE: 5-2-19	SCALE: NTS		3 NO: 70S/19118S	
	CLIENT: GA SOUTHERN	SHT. 6	DWG. NO: SK-3	}	REV.: 1	

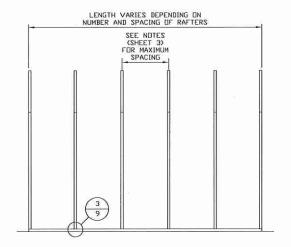


## TYPICAL RAFTER/COLUMN FRAME SECTION



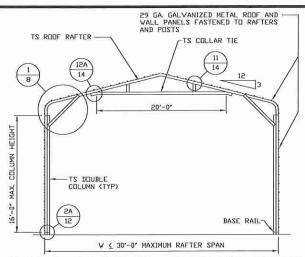
## TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

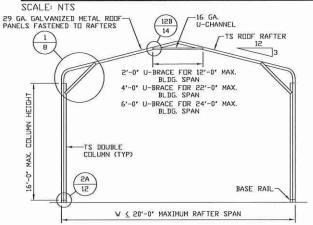


## TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

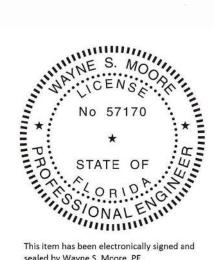


## TYPICAL RAFTER/COLUMN FRAME SECTION



# TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

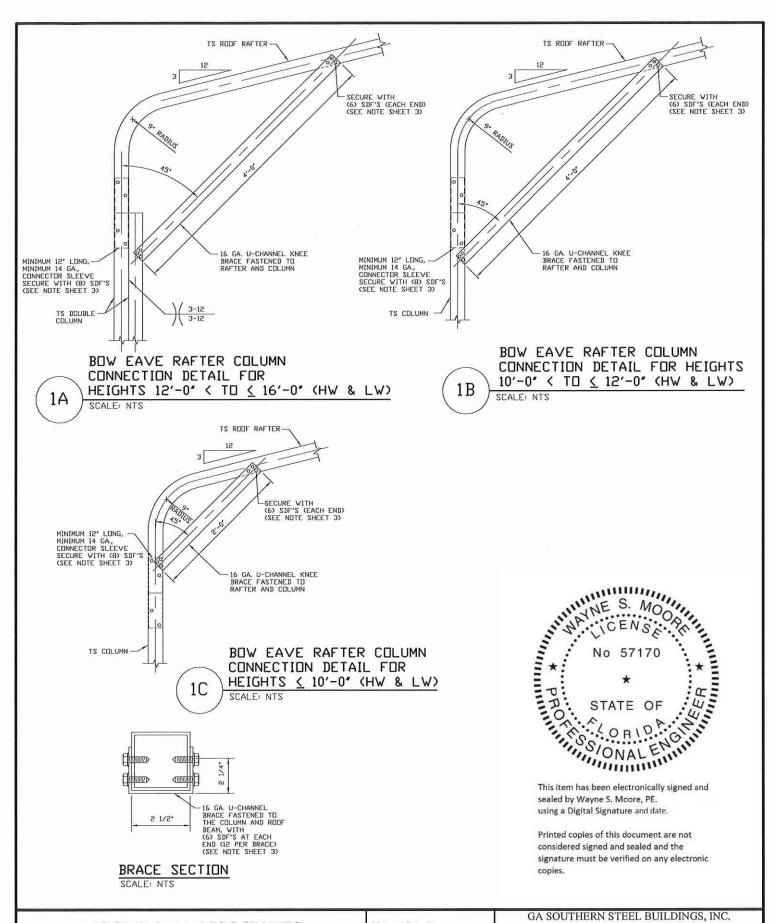


This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

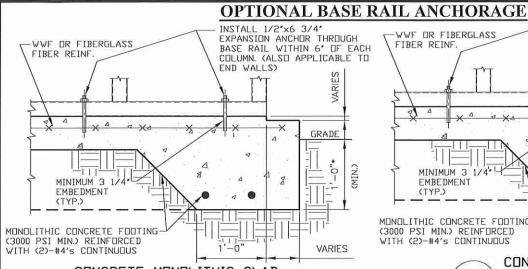
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

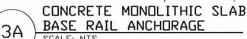
ZIHT	DOCUME	2I TH	THE	PROPERT	Y DE	HOORE	AND	ASSOCIATES	ENGINEERING A	ND
CONS	ULTING.	THE U	JNAUY	HORIZED	REPR	ODUCTIO	IN, CO	OPYING, DR O	THERVISE USE	OF
	UBJECT				THIR!	LED AND	ANT	INS KINDENE	NT THEREUPON	MAT

DRAWN BY: SH		THERN STEEL 86 GENE McQU					
CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE						
PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS		3 NO: 705/191185			
CLIENT: GA SOUTHERN	SHT. 7	DWG. NO: SK-	3	REV.: 1			

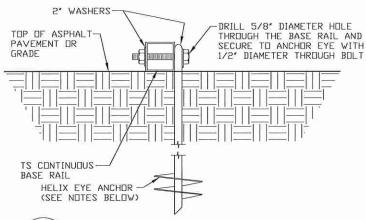


MOORE AND ASSOCIATES	DRAWN BY: SH	1086 GENE McQUEEN ROA				
ENGRIEEDING AND CONGULTING INC	CHECKED BY: JM		MOULTRIE, GA : 5'-0" ENCLOSED	Z. T-10 T-7.		
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS	JOB NO: 17270S/19118S		
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: GA SOUTHERN	SHT. 8	DWG. NO: SK-3	REV.: 1		





(MINIMUM ANCHOR EDGE DISTANCE IS 4") \* COORDINATE WITH LOCAL CODES/ORD.





#### 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' 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' ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

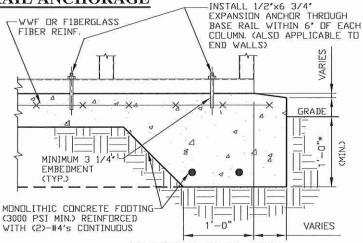
#### REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

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.

3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

BE FIELD BENT.

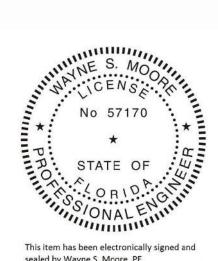


CONCRETE SLAB BASE RAIL ANCHORAGE ЗВ

SCALE: NTS (MINIMUM ANCHOR EDGE DISTANCE IS 4') \* COORDINATE WITH LOCAL CODES/ORD.

#### 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" EMBEDMENT OR
- SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2)  $6^{\prime}$  HELICES WITH MINIMUM 50' EMBEDMENT.
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8° HELICES WITH MINIMUM 60° EMBEDMENT.



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

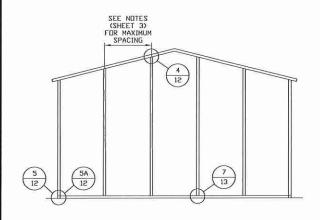
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

# MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

						ASSOCIATES		
						IPYING, OR INFRINGEN		
BE S	UBJECT	TO LE	GAL	ACTION.				

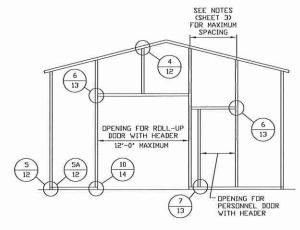
DRAWN BY: SH		THERN STEEL 86 GENE McQU	EEN R	OAD			
CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE						
PROJECT MGR: VSM	DATE: 5-2-19	SCALE: NTS		3 NO: 70S/19118S			
CLIENT: GA SOUTHERN	SHT. 9	DWG. NO: SK-	3	REV.: 1			

# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



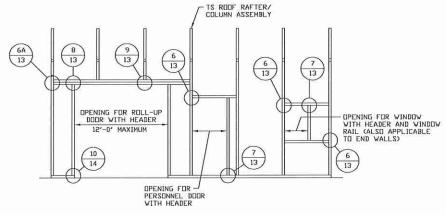
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



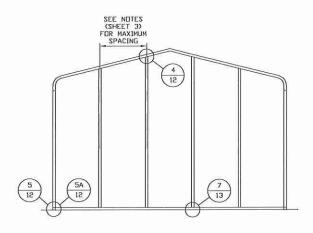
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS	DOCUME	NT I	STHE	PROPER	TY OF	HOORE	AND	ASSOCIATES	ENGINEERING A	MD
									THERWISE USE	
					COHIBIT	ED AND	ANY	INFRINGENE	NT THEREUPON	HAY
BE 2	UBJECT	TO L	EGAL	ACTION						

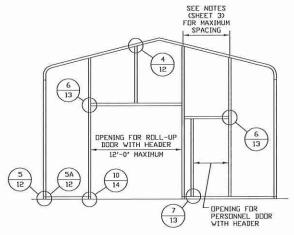
۲.	DRAWN BY: SH  CHECKED BY: JM	10	THERN STEEL BUILDINGS, INC. 6 GENE McQUEEN ROAD MOULTRIE, GA 31788 6'-0" ENCLOSED STRUCTURE				
	PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS		705/191185		
	CLIENT: GA SOUTHERN	SHT. 10	DWG. NO: SK-	3	REV.: 1		

# BOW RAFTER END WALL AND SIDE WALL OPENINGS



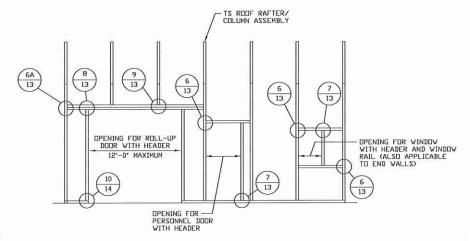
# TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



# TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

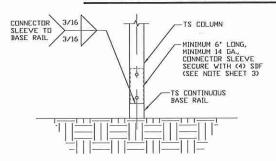
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS	DOCUME	NT IS	THE	PROPERT	Y OF	HOORE	AND /	ASSOCI	ATES E	NGINEERIN	G AND
										HERWISE !	
										THEREUF	
				ACTION				**************************************			

	IDD NO.
CHECKED BY: JM	30'-0"x16'-0" ENCLOSED STRUCTURE
DRAWN BT: SH	MOULTRIE, GA 31788
DRAWN BY: SH	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McOUEEN ROAD

PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS	JOB NO: 17270S/19118S		
CLIENT: GA SOUTHERN	SHT. 11	DWG. NO: SK-3	REV: 1		

# BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



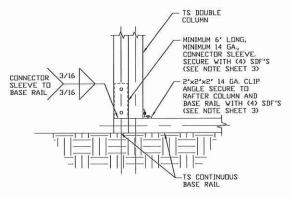
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

T'S ROOF RAFTER

2'x2'x2' 14 GA. ANGLE CLII
SECURE TO COLUMN AND
RAFTER WITH (4) SDF'S
(SEE NOTE SHEET 3)

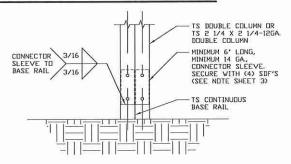
TS END COLUMN

4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS

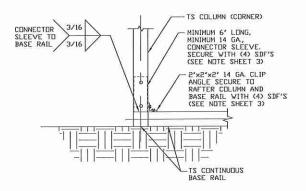


SCALE: NTS

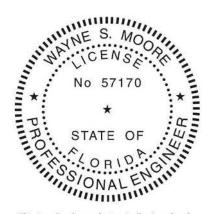
END COLUMN/BASE RAIL
CONNECTION DETAIL



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



5 END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

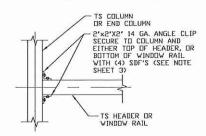
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

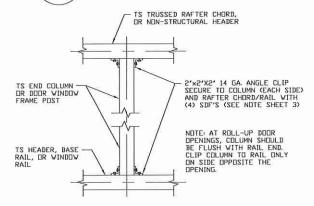
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

	I GA SOI	THERN STEEL I	вішр	INGS INC		
DRAWN BY: SH 1086 GENE McQ						
CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE					
PROJECT MGR: WSM	DATE: 5-2-19	JOB NO: 17270S/19118S				
CLIENT: GA SOUTHERN	SHT. 12	DWG. NO: SK-	3	REV.: 1		

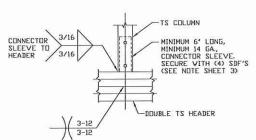
## BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



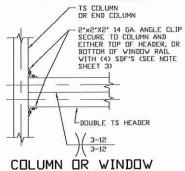
# COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL SCALE: NTS



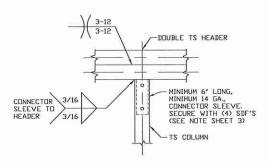
# 7 COLUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL SCALE: NTS



9 HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL
SCALE: NTS



8 HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



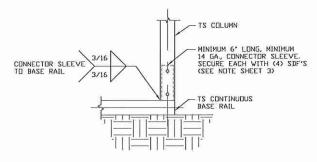
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

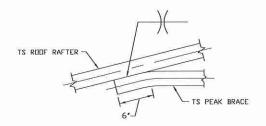
THIS DOCUMENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENG	INCEDING AND
INIS DOCONCIAL IS THE PROPERTY OF HOUSE MAD HOSDICIALES CAN	THE CALLED LAND
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHER	שוויכר וויכר חב
CONSOCITION THE ORNOTHURIZED REPRODUCTION, CONTING, OR OTHER	WAIRE ORE CO.
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT	THEREUPON MAY
Inia poconcia la sinicici i nombile pare ma la minociali.	
BE SUBJECT TO LEGAL ACTION.	
DE 20DDECT TO CEONE MCTION	

DRAWN BY: SH	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE				
PROJECT MGR: WSM	DATE: 5-2-19 SCALE: NTS		JOE	JOB NO: 17270S/19118S	
CLIENT: GA SOUTHERN	SHT. 13	DWG. NO: SK-	3	REV.: 1	

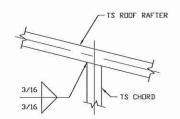
# BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



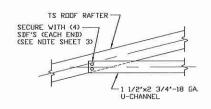
COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



PEAK BRACE CONNECTION DETAIL
SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12B ROOF RAFTER TIE CONNECTION DETAIL
SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

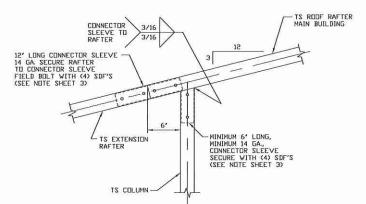
IS THE PROPERTY OF P		
: UNAUTHORIZED REPRO IS STRICTLY PROHIBITE LEGAL ACTION.		

DRAWN BY: SH		GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD					
CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE						
PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS		B NO: 270S/19118S			
CLIENT: GA SOUTHERN	SHT. 14	DWG. NO: SK-	3	REV.: 1			

# BOX EAVE RAFTER LEAN-TO OPTIONS 15 14 MAIN STRUCTURE RODE EXTENSION OPTION STANDARD LEAN-TO OPTION 15 15 5 5V 12 2A 12 12 3 9 15 12 19

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

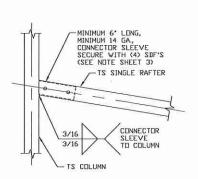
MAXIMUM STANDARD LEAN-TO WIDTH FOR SINGLE RAFTER IS 12'-0' MAXIMUM STANDARD LEAN-TO WIDTH FOR DOUBLE RAFTER IS 24'-0' SCALE: NTS



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS <u>≤</u> 12'-0" SCALE: NTS

12' LONG CONNECTOR SLEEVE 12 GA. SECURE RAFTER TO CONNECTOR SLEEVE FIELD BOLT WITH
(4) #12-14x3/4' SDF'S ROOF RAFTER-LEAN-TO ADDITION 3/16 CONNECTOR SLEEVE TO RAFTER -MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE. SECURE COLUMN TO CONNECTOR SLEEVE WITH (4) #12-14x3/4' SDF'S TS EXTENSION DOUBLE RAFTER 3-12 2'x2'x2' 16 GA. ANGLE CLIP-SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 ON TOP AND 2 ON SIDE TS COLUMN

SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0" < T□ < 24'-0" SCALE: NTS



13

14

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0" SCALE: NTS

MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE WITH (4) SDF'S (SEE NOTE SHEET 3) TS DOUBLE RAFTER CONNECTOR SLEEVE TO COLUMN 3/16 3/16 3-12 TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < T□ < 24'-0" 14A SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

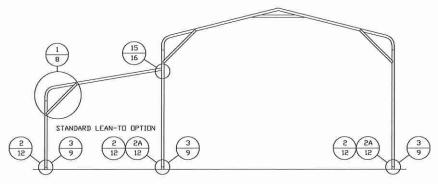
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

# MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

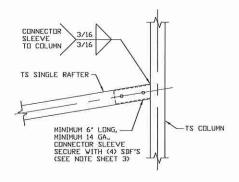
CLIENT: GA SOUTHERN	SHT. 15	DWG. NO: SK-	3	REV.: 1		
PROJECT MGR: VSM	DATE: 5-2-19	SCALE: NTS		NO: 70S/19118S		
CHECKED BY: JM	30'-0"x	MOULTRIE, G 16'-0" ENCLOSI				
DRAWN BY: SH	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD					

# **BOW RAFTER LEAN-TO OPTION**



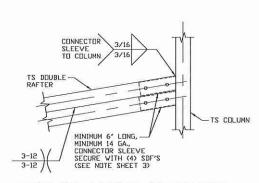
## TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS MAXIMUM STANDARD LEAN-TO WIDTH FOR SINGLE RAFTER IS 12'-0' MAXIMUM STANDARD LEAN-TO WIDTH FOR DOUBLE RAFTER IS 24'-0'



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0"

15 SCALE: NTS



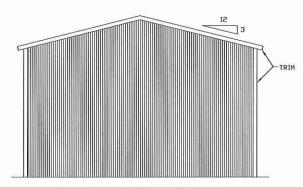
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO < 24'-0"
SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

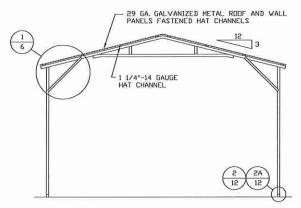
MOORE AND ASSOCIATES	DRAWN BY: SH	. Control of the cont	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE				
THIS DOCUMENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENGINEERING AND	MENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENGINEERING AND PROJECT MGR: WSM		SCALE: NTS		3 NO: 70S/19118S	
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: GA SOUTHERN	SHT. 16	DWG. NO: SK-	3	REV.: 1	

# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



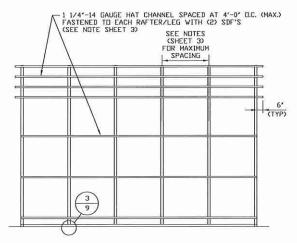
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



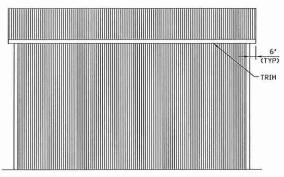
TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



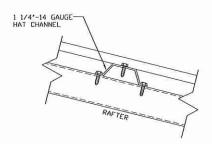
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DWG. NO: SK-3

REV. 1

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIC	DOCUME	NT IC	THE	ponoco	TV OC	MUUDOC	AND	TAI DO22A	FC FA	GINEERING	AND
11113	DOCONE	141 13	1116	LUCKE		FULLACE	mit D	M33001M1	C3 C1	ACTIVE CIVILIAN	- rail
COLIC	IN VIANT	Y	MIRCH		2000	WITH WATER	MI CC	MUILUT C	O OT.	COLUCE II	20 22
LUN3	UL I INU.	IIIR. I	JNAUI	MURCILL	, KEPI	וו שטענוו	M. LL	PIINO, L	K UIP	ERVISE U	3E UP
										THEREUPO	
						ICD CASE	,	Tem selven			**
BE S	UBJECT	TO LE	EGAL	ACTION							

PROJECT MGR: WSM	DATE: 5-2-19	SCALE: NTS	JOB NO: 17270S/19118S				
CHECKED BY: JM	MOULTRIE, GA 31788 30'-0"x16'-0" ENCLOSED STRUCTURE						
DRAWN BY: SH	GA SOUTHERN STEEL BUILDINGS, INC. 1086 GENE McQUEEN ROAD						

SHT. 17

CLIENT: GA SOUTHERN