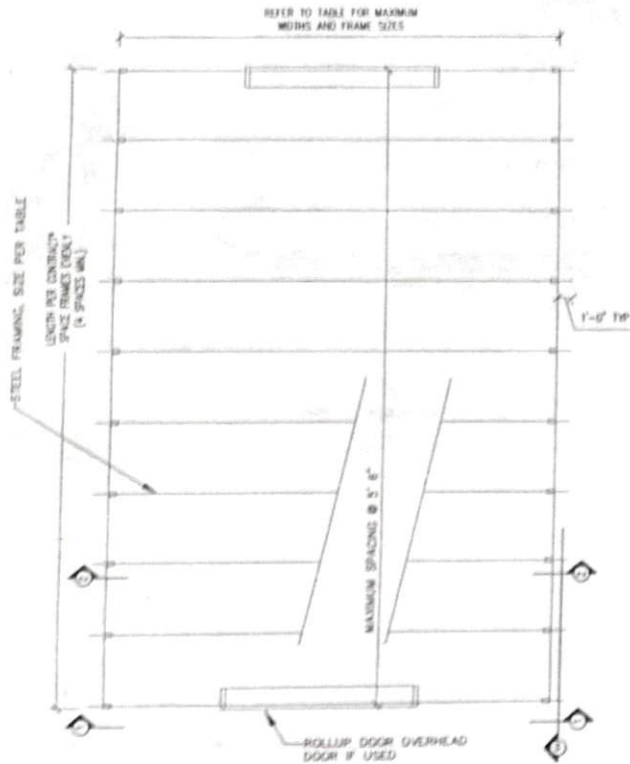


CAROLINA STRUCTURAL, LLC
 4241 WILLIAMSON ROAD
 WILSON, NC 27893

12'-28" WIDE 4/12 PITCH
 ENCLOSED BUILDING
 130 MPH WIND LOAD

PLAN VIEW

S1



PLAN VIEW

NOT TO SCALE

ENCLOSED BUILDING, SIZE PER SPAN CHART
 FULL SIDE COVERAGE

* MAXIMUM LENGTH IS NOT LIMITED

NOTE:
 ALL SIZES ARE 3/2 RBE
 STEEL (F_y = 50KSI)

MAX HEIGHT	9'	12'
12' 0"	11 GA	9 GA
16' 0"	9 GA	9 GA
20' 0"	9 GA	9 GA
24' 0"	9 GA	9 GA
28' 0"	9 GA	9 GA

BRACE LOCATED @ 2'-2" ABOVE EAVE
 BRACE LOCATED @ 1'-8" ABOVE EAVE
 BRACE LOCATED @ 1'-0" ABOVE EAVE

TO USE SPAN CHART:

1. SELECT WIDTH OF BUILDING DESIRED.
2. SELECT EAVE HEIGHT OF BUILDING - THIS IS DIMENSION TO TOP OF COLUMN FROM GRADE.
3. FOLLOW HORIZONTAL LINE FROM WIDTH TO CORRECT HEIGHT COLUMN.
4. SELECT GAGE LISTED.
5. INTERPOLATION BETWEEN SIZES IS NOT PERMITTED.
6. THIS TABLE TO BE USED WITH DRAWINGS S1 THRU S6 ONLY.
7. CENTER BRACE REQUIRED IF SIZE IS HATCHED AS SHOWN. LOCATION SPECIFIED @ RIGHT OF TABLE.



BARTLETT
 ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH
 WILSON, NORTH CAROLINA 27893
 TEL (252)399-0704 FAX (252)399-0804

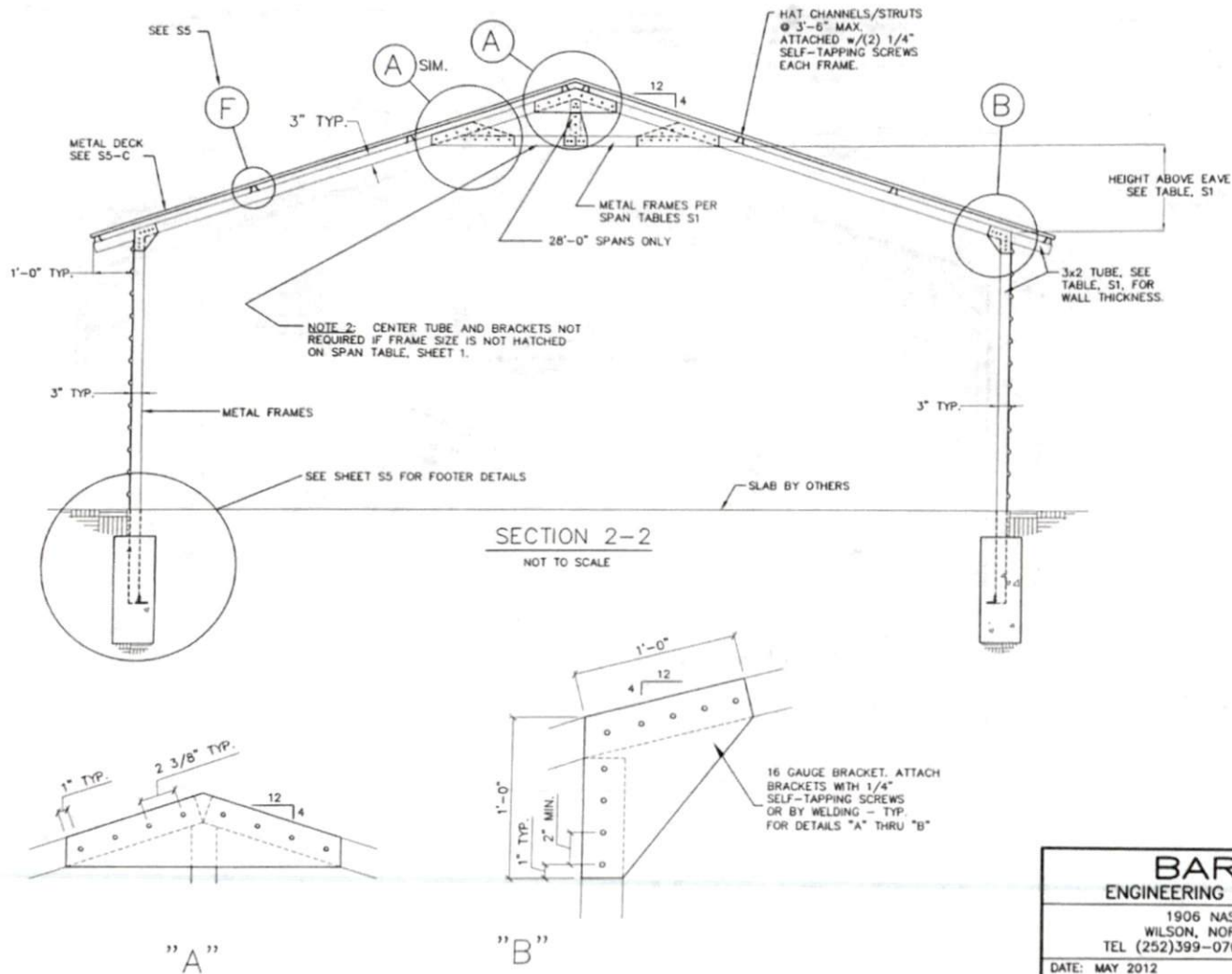
DATE: MAY 2012	CADFILE: 074380T11-A
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

CAROLINA STRUCTURAL, LLC
 4241 WILLIAMSON ROAD
 WILSON, NC 27893

12'-28" WIDE 4/12 PITCH
 ENCLOSED BUILDING
 130 MPH WIND LOAD

SECTION 2

S2



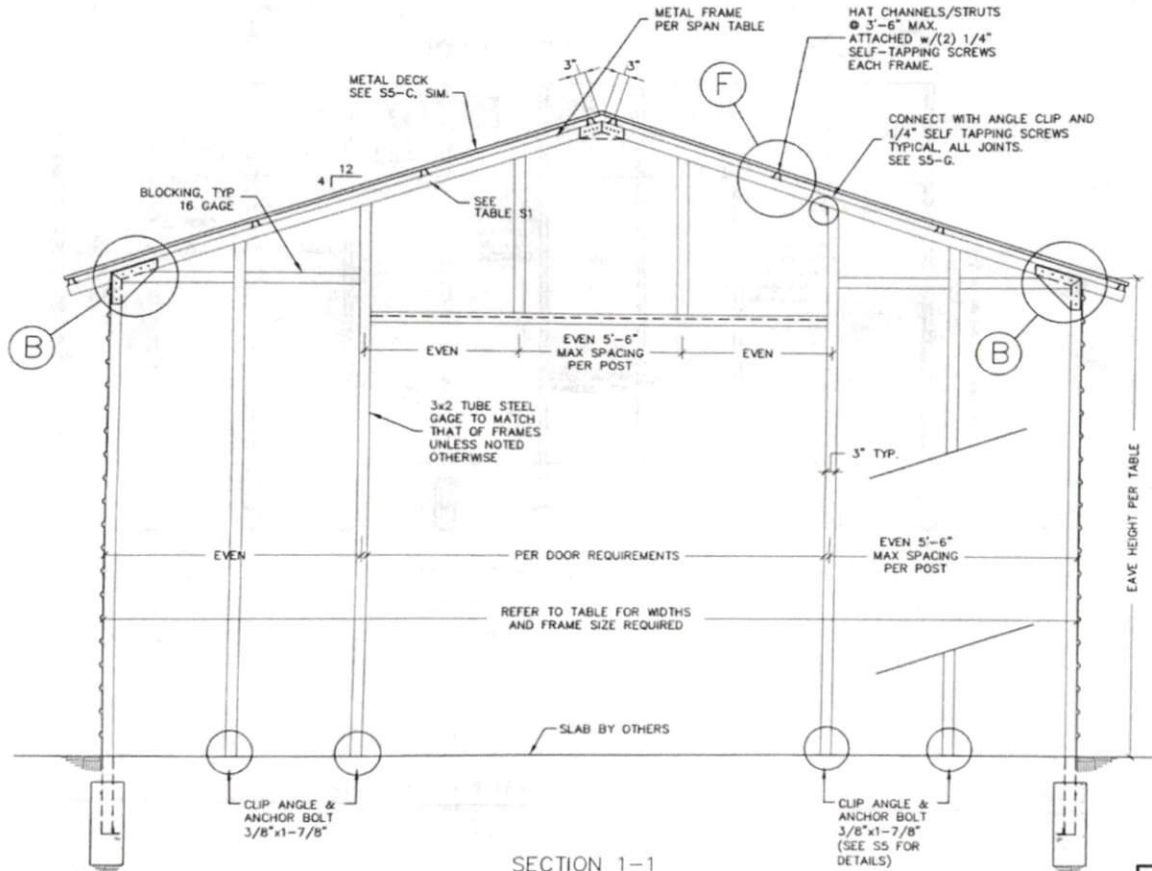
BARTLETT ENGINEERING & SURVEYING, PC	
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: MAY 2012	CADFILE: 074380T11-B
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

CAROLINA STRUCTURAL, LLC
 4241 WILLIAMSON ROAD
 WILSON, NC 27893

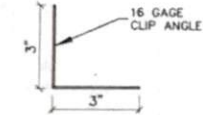
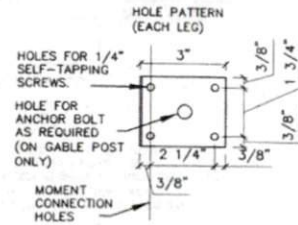
12'-28" WIDE 4/12 PITCH
 ENCLOSED BUILDING
 130 MPH WIND LOAD

SECTION 1

S3



SECTION 1-1
 WITH GARAGE DOOR
 NOT TO SCALE



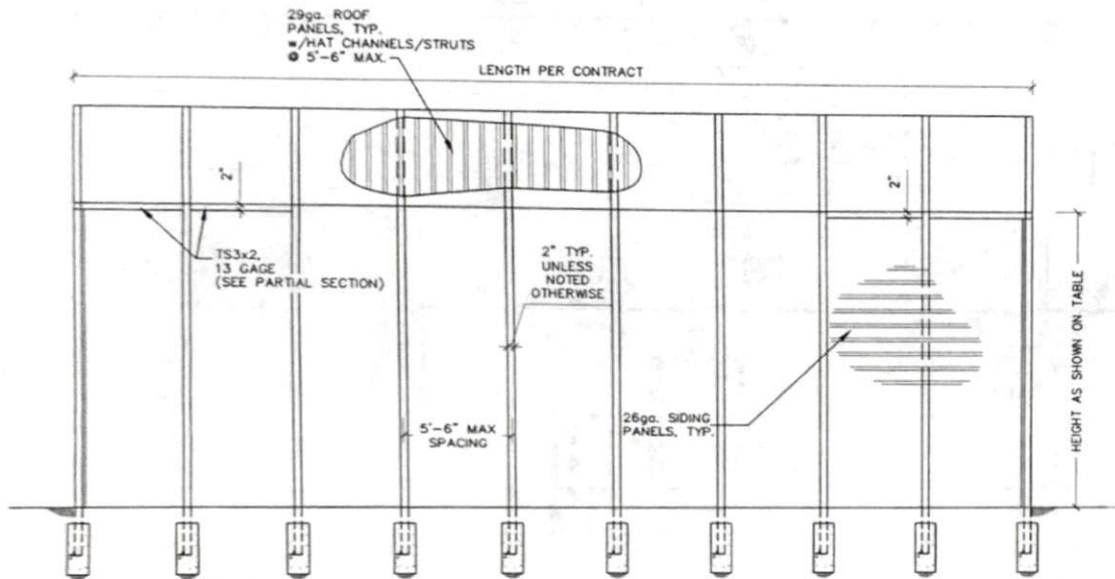
NOTE:
 1) TYPICAL CONNECTION =
 2 SCREWS (MIN.) PER LEG
 IN A DIAGONAL PATTERN.
 2) MOMENT CONNECTION =
 2 SCREWS (MIN.) IN HOLES
 NOTED.

"G"

NOTE:
 BLOCKING ATTACHED WITH
 16 GAGE CLIP ANGLE.
 SEE S5 FOR DETAILS

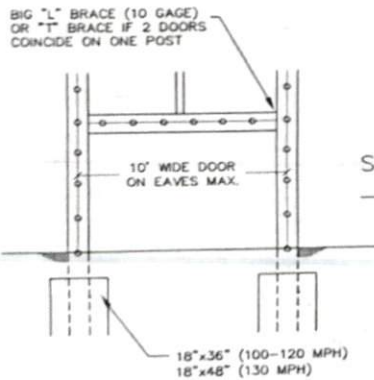


BARTLETT ENGINEERING & SURVEYING, PC	
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: MAY 2012	CADFILE: 074380T11-C
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CLIENT: CARSTRU	SURVEYED BY:

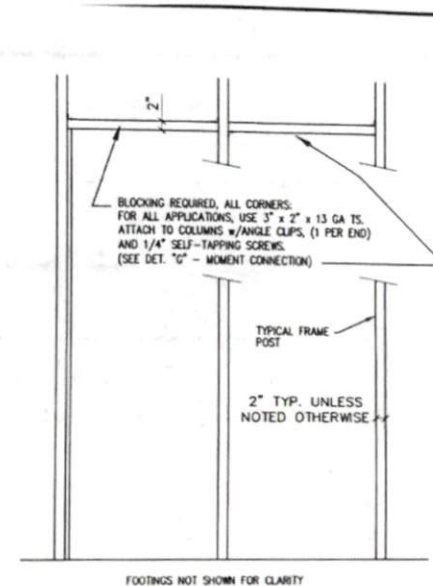


ENCLOSED BUILDING, SIZE PER TABLE

SECTION 3-3
NOT TO SCALE



SECTION 3-3 (PARTIAL)
FOR GARAGE DOOR
NOT TO SCALE



SECTION 3-3 (PARTIAL)
NOT TO SCALE



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1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: MAY 2012	CADFILE: 07438DT11-D
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

CAROLINA STRUCTURAL, LLC
4241 WILLIAMSON ROAD
WILSON, NC 27893

12'-28" WIDE 4/12 PITCH
ENCLOSED BUILDING
130 MPH WIND LOAD

SECTION 3

S4

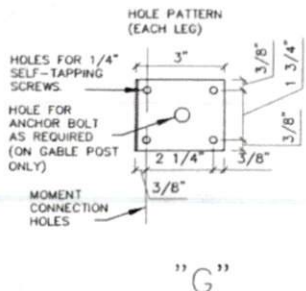
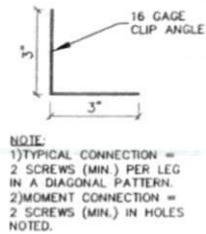
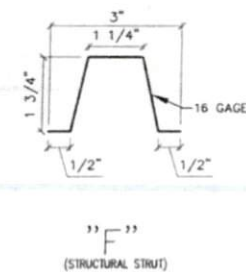
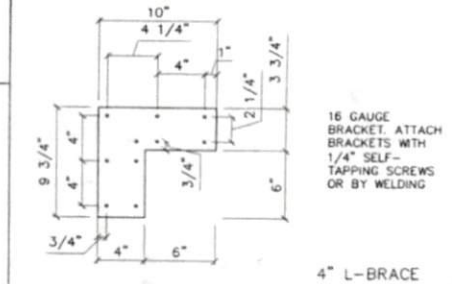
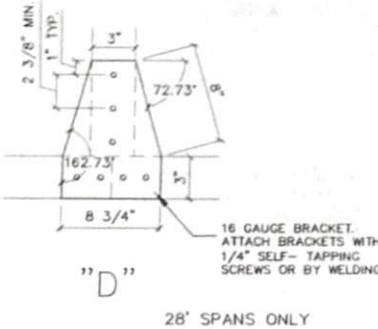
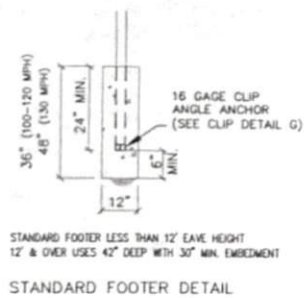
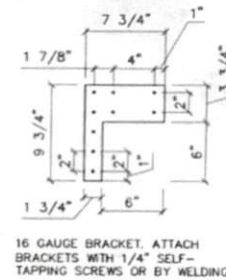
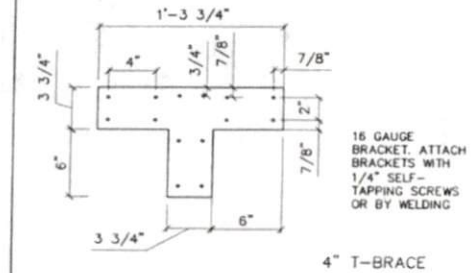
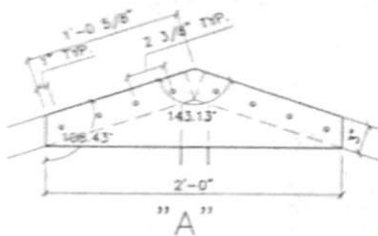
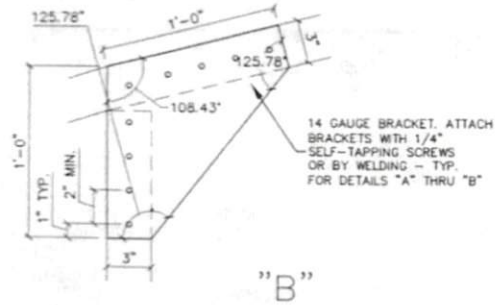
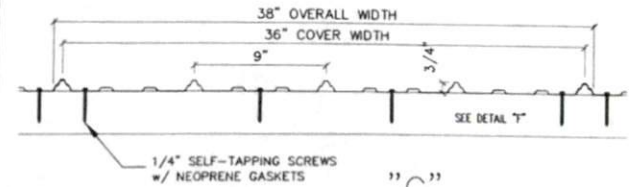
CAROLINA STRUCTURAL, LLC
4241 WILLAMSON ROAD
WILSON, NC 27893

12'-28" WIDE
ENCLOSED BUILDING
150 MPH WIND LOAD

DETAILS

S5

NOTE:
ROOFING & SIDING PANELS
ARE 29 GAUGE, OF THE PROFILE
SHOWN, BY FABRAL.



BARTLETT
ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH
WILSON, NORTH CAROLINA 27893
TEL (252)399-0704 FAX (252)399-0804

DATE: MAY 2012	CADFILE: 07438DT11-E
SCALE: NOT TO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

NOTES:

1. DESIGN SPECIFICATION: NORTH CAROLINA STATE BUILDING CODE (LATEST EDITION) - 2009 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS.
DESIGN LOAD:
 ROOF LIVE LOAD: 20 PSF
 SNOW LOAD : 20 PSF
 WIND VELOCITY: 130 MPH
 FRAME SIZING DETERMINED BY MEMBER STRESS.
 LL+DL DEFLECTION LIMITED TO L/120.
 ROOF LL DEFLECTION L/150
 WALL LL DEFLECTION L/90
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
5. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO THE STRUCTURE DURING CONSTRUCTION PROCEDURES ASSOCIATED WITH THIS PROJECT.
6. CONCRETE: CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI.
7. CONCRETE WORK SHALL COMPLY WITH ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND APPLICABLE PROVISIONS OF ACI 318.
8. ALL FOOTER FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
9. DRILL AUGER PILING HOLES IN UNDISTURBED EARTH.
10. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
11. THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
13. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
14. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
15. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.



BARTLETT ENGINEERING & SURVEYING, PC	
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: JULY 2009	CADFILE: 074380T11-F
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

CAROLINA STRUCTURAL, LLC
4241 WILLAMSON ROAD
WILSON, NC 27893

12'-28" WIDE 4/12 PITCH
ENCLOSED BUILDING
130 MPH WIND LOAD

SPECIFICATIONS

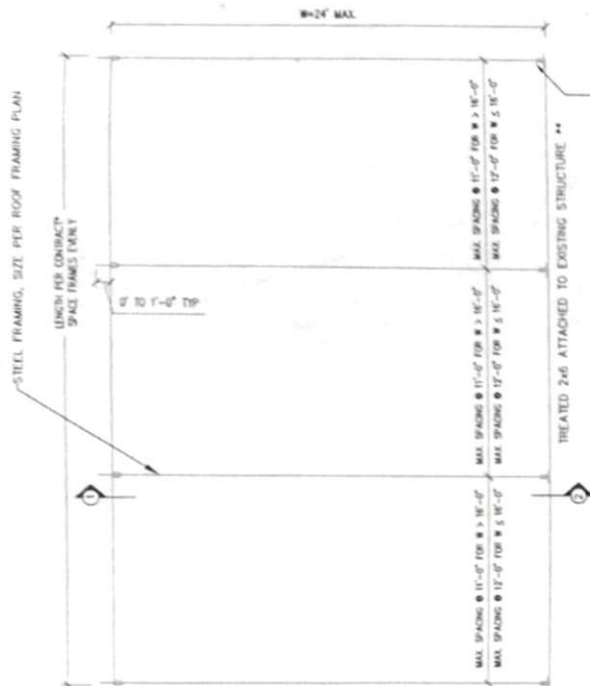
S6

CAROLINA STRUCTURAL, LLC
 4241 WILLIAMSON ROAD
 WILSON, NC 27893

LEAN-TO SHELTER
 100 MPH WIND LOAD

PLAN VIEW

S1

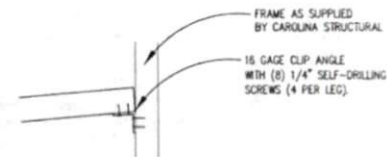


PLAN VIEW
 NOT TO SCALE

* MAXIMUM LENGTH IS NOT LIMITED

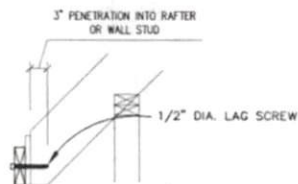
ATTACH TO BAND WITH 16 GAGE CLIP ANGLES. ATTACH CLIP ANGLE TO TUBE STEEL WITH (3) 1/4" DIAMETER SELF-DRILLING SCREWS. ATTACH TO BAND WITH (3) NO. 8 WOOD SCREWS.

** ZKB TO BE ATTACHED TO A HOME CONSTRUCTED ACCORDING TO THE NCSBC. FOR SITUATIONS NOT COMPLIANT TO THIS ASSUMPTION, EXISTING STRUCTURE MUST BE EVALUATED FOR ADDITIONAL LOADING



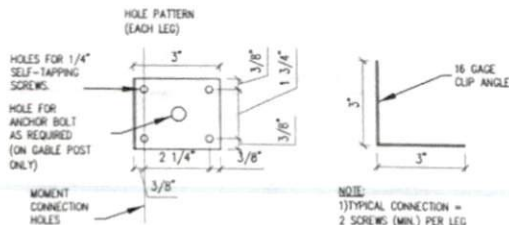
DETAIL FOR ATTACHMENT TO EXISTING STEEL FRAME.

SECTION 2 (OPTION 2)
 NOT TO SCALE



DETAIL FOR ATTACHMENT TO RAFTER (AS SHOWN) ATTACHMENT TO WALL STUD SIMILAR.

SECTION 2 (OPTION 1)
 NOT TO SCALE

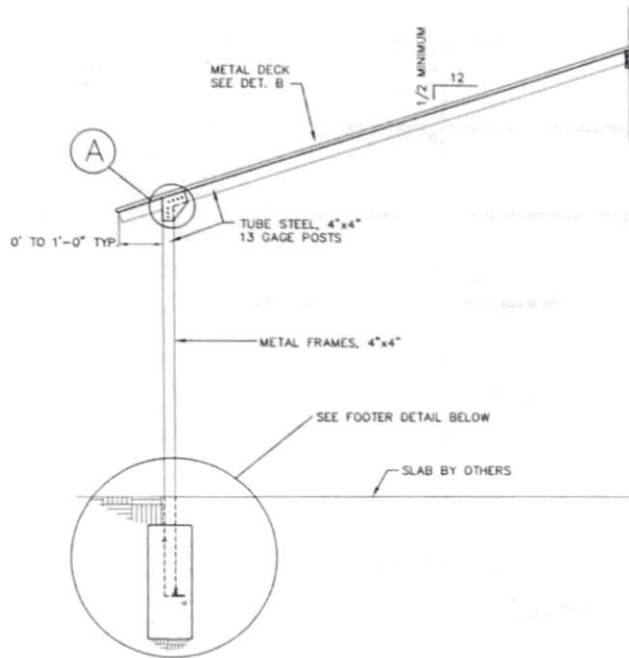


NOTE:
 1) TYPICAL CONNECTION = 2 SCREWS (MIN.) PER LEG IN A DIAGONAL PATTERN
 2) MOMENT CONNECTION = 2 SCREWS (MIN.) IN HOLES NOTED.



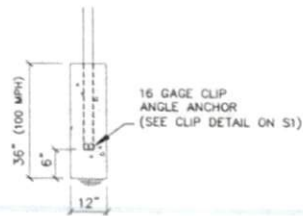
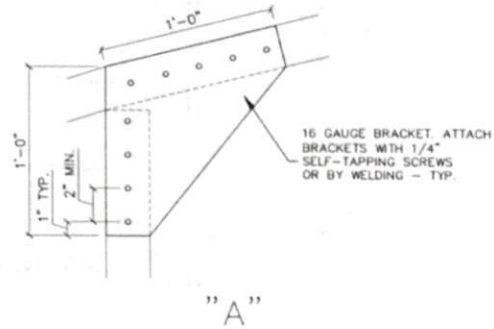
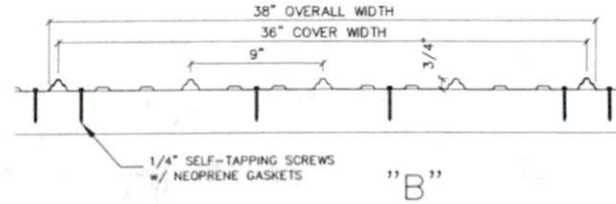
BARTLETT ENGINEERING & SURVEYING, PC	
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: OCT. 2016	CADFILE: REV074380T14-A
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

BRACKETS, TYP BOTH SIDES OF METAL FRAMES



SECTION 1
NOT TO SCALE

NOTE:
ROOFING PANELS ARE 29 GAGE,
OF THE PROFILE SHOWN, BY
WHEELING CORRUGATED
COMPANY OR APPROVED EQUAL.



STANDARD FOOTER



BARTLETT ENGINEERING & SURVEYING, PC	
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804	
DATE: OCT. 2016	CADFILE: REV074380T14-B
SCALE: NO SCALE	DRAWN BY: LR
CLIENT: CARSTRU	SURVEYED BY:

CAROLINA STRUCTURAL, LLC
4241 WILLIAMSON ROAD
WILSON, NC 27893

LEAN-TO SHELTER
100 MPH WIND LOAD

SECTIONS & DETAILS

S2

CAROLINA STRUCTURAL, LLC
4241 WILLIAMSON ROAD
WILSON, NC 27893

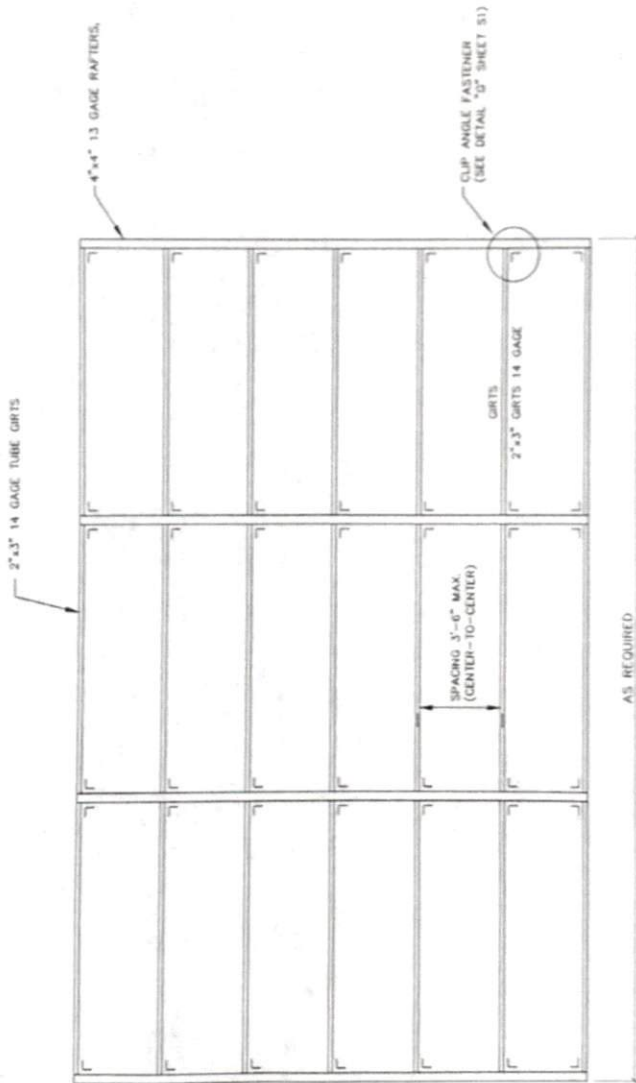
LEAN-TO SHELTER
100 MPH WIND LOAD

ROOF FRAMING PLAN

53



SECRET NO. 012101
BARTLETT
ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, NORTH CAROLINA 27893
TEL (252)399-0704 FAX (252)399-0804
DATE: OCT. 2016 CADFILE: REV074300114-0
SCALE: NO SCALE DRAWN BY: LR
CLIENT: GARSTRO SURVEYED BY:



ROOF FRAMING PLAN VIEW
NO SCALE

NOTES:

1. DESIGN SPECIFICATION: NORTH CAROLINA STATE BUILDING CODE (LATEST EDITION) AND INTERNATIONAL BUILDING CODE (LATEST EDITION) WITH NORTH CAROLINA AMENDMENTS.
DESIGN LOAD:
 ROOF LIVE LOAD: 20 PSF
 SNOW LOAD : 15 PSF
 WIND VELOCITY: 100 MPH (EXPOSURE D)
 FRAME SIZING DETERMINED BY MEMBER STRESS.
 LL+DL DEFLECTION LIMITED TO L/120.
 ROOF LL DEFLECTION L/150
 WALL LL DEFLECTION L/90
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
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12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
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BARTLETT		LICENSE NO. C-1591
ENGINEERING & SURVEYING, PC		
1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893 TEL (252)399-0704 FAX (252)399-0804		
DATE: OCT. 2016	CADFILE: REV074380T14-C	
SCALE: NO SCALE	DRAWN BY: LR	
CLIENT: CARSTRU	SURVEYED BY:	

CAROLINA STRUCTURAL, LLC
4241 WILLIAMSON ROAD
WILSON, NC 27893

LEAN-TO SHELTER
100 MPH WIND LOAD

SPECIFICATIONS

S4