

NOTE: THIS STRUCTURE IS IN COMPLIANCE WITH THE 2009 & 2012 INTERNATIONAL BUILDING CODES AND INTERNATIONAL RESIDENTIAL CODES. LOADS ARE IN ACCORDANCE WITH ASCE/SEI 7-05 and 7-10.

WIND SPEED (3 SECOND WIND GUST)	120 MPH	130 MPH
IMPORTANCE FACTOR	WIND	0.77
	SNOW	0.8
	SEISMIC	1.0
BUILDING CATEGORY	I	I
EXPOSURE	C	C
INTERNAL PRESSURE COEFFICIENT	±0.55	
COMPONENT AND CLADDING PRESSURE	WALLS	+32.2/-40.5 PSF
	ROOF	+21.8/-65.4 PSF
STRUCTURE TYPE	ENCLOSED or OPEN	+25.6/-76.8 PSF
	ENCLOSED or OPEN	ENCLOSED or OPEN
GROUND SNOW LOAD	20 PSF	30 / 40 / 50 PSF
SEISMIC DESIGN CATEGORY	D2	D2

TABLE 1

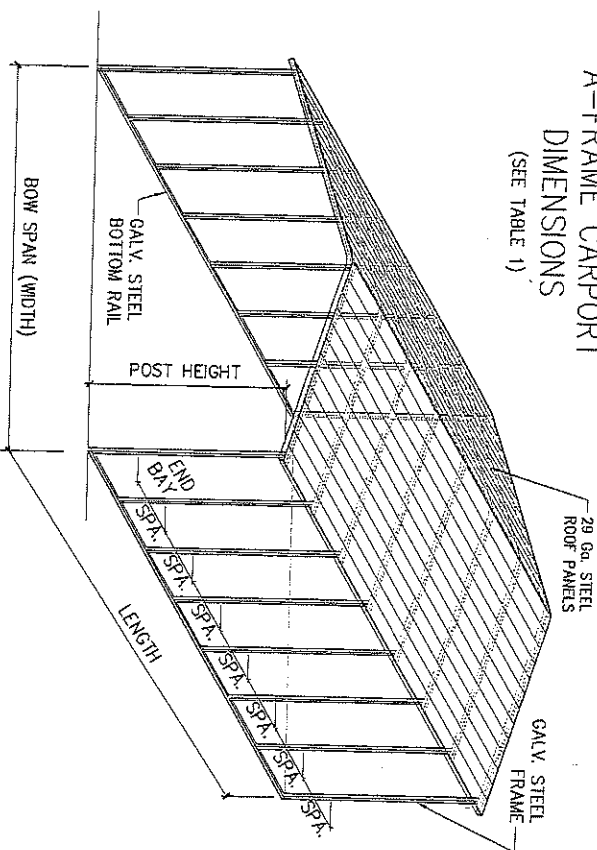
BOW SPAN	POST HEIGHT	FRAME SPACING BASED ON WIND SPEED AND SNOW LOAD							
		120 / 20		130 / 30		130 / 40		130 / 50	
12'	8'-0"	TS 2 1/2" x 2 1/2"		TS 2 1/2" x 2 1/2"		TS 2 1/2" x 2 1/2"		TS 2 1/2" x 2 1/2"	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
16'	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
18'	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
20'	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
22'	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
24'	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	
	8'-0"	14		14		14		14	
	12'-0"	14		14		14		14	

NOTE: CORNER BRACE REQUIRED FOR ALL 10' & 12' POSTS \* OR TS 2 1/2" x 2 1/2" AND FOR ALL 20'-24' SPANS

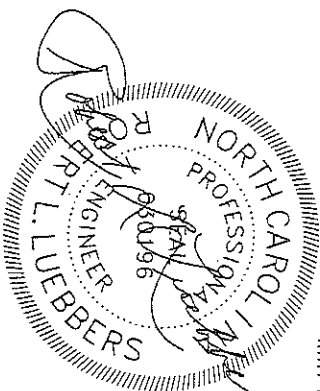
TS 2 1/2" x 2 1/2" - 14 GAGE STEEL TUBING MAY BE SUBSTITUTED FOR TS 2 1/2" x 2 1/2" - 12 GAGE STEEL TUBING OR VICE VERSA. THE ASSOCIATED CONNECTION MATERIALS AND BRACING MUST BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE CHANGE IN SIZE.

OR TS 2 1/2" x 2 1/2" 12 Ga. @ 4'-6" MAY BE USED

A-FRAME CARPORT DIMENSIONS (SEE TABLE 1)



NOTES:  
 ALL STEEL TUBING SHALL HAVE A MINIMUM YIELD STRENGTH (FY) OF 65 KSI OR BETTER.  
 ALL FASTENERS ARE CASE HARDENED STEEL HEX SELF-TAPPING SCREWS, #12-14 FOR FRAMING, #12-14 FOR TOP AND TRIM. ROOF DECK SCREWS SHALL HAVE RUBBER WASHERS.  
 FASTEN METAL ROOF AND SIDE PANELS WITH SELF DRILLING FASTENERS AT 8" O.C. MAX.  
 ALL FIELD CONNECTIONS SHALL BE 1/2" x 1/2" SELF DRILLING SCREWS, UNLESS NOTED OTHERWISE.  
 ALL SHOP CONNECTIONS SHALL BE WELDED.  
 THE OWNER IS RESPONSIBLE FOR COMPLYING WITH LOCAL BUILDING CODE REQUIREMENTS.

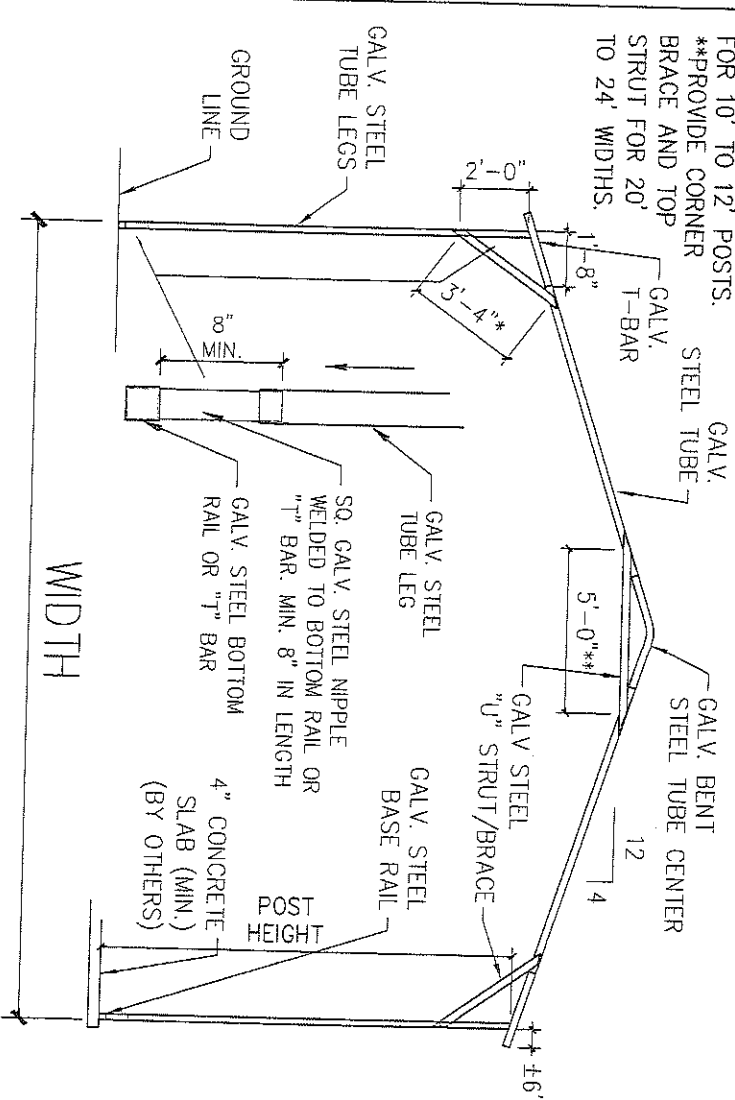


**NEWMART BUILDERS**  
 A-FRAME CARPORTS

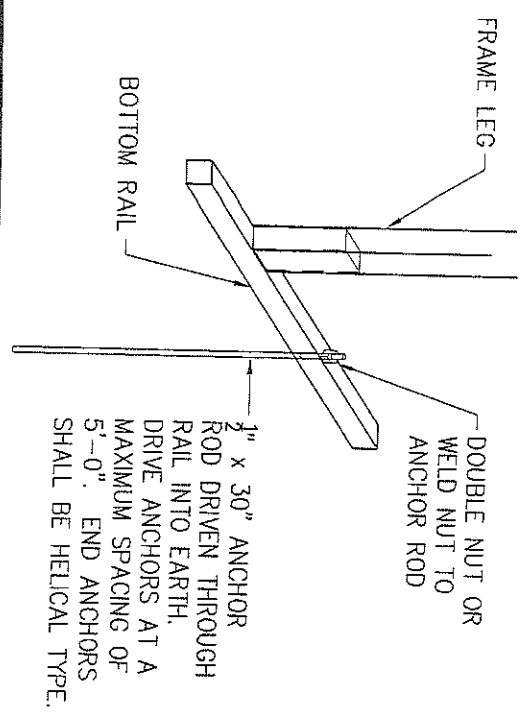
850 LOCUST STREET  
 SOUTH HILL, VA 23970  
 PHONE (434) 447-2893  
 TOLL FREE 1-800-547-8480  
 FAX (434) 447-2894

\*PROVIDE CORNER BRACE FOR 10' TO 12' POSTS.  
 \*\*PROVIDE CORNER BRACE AND TOP STRUT FOR 20' TO 24' WIDTHS.

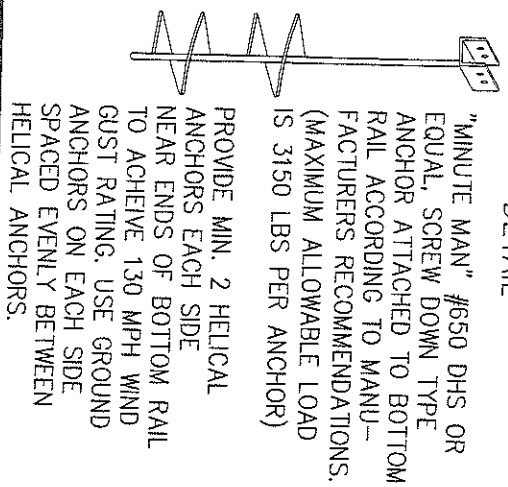
# 'A'-FRAME CARRPORT



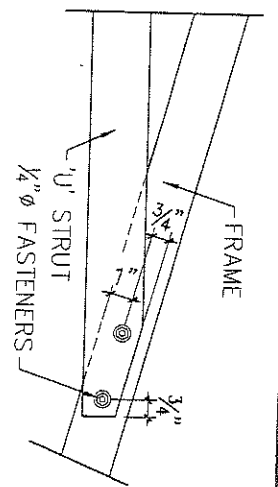
## GROUND ANCHOR DETAIL



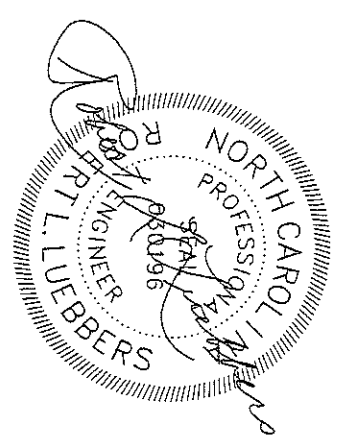
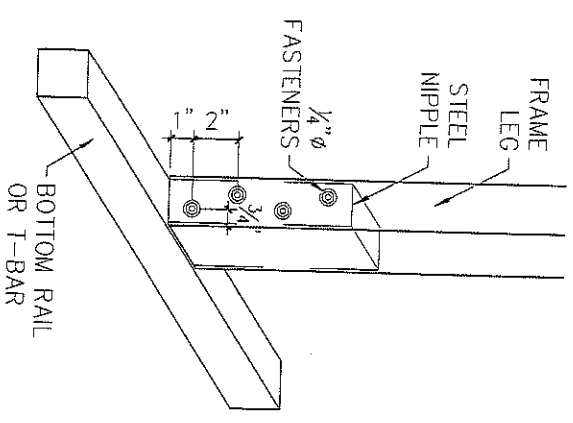
## HELICAL ANCHOR DETAIL



## STRUT OR BRACE CONNECTION



## FRAME CONNECTION



DRILL  $\frac{5}{8}$ " HOLE THROUGH THE  
BASE RAIL AND SECURE TO  
ANCHOR EYE WITH  $\frac{1}{2}$ " DIAMETER  
THROUGH BOLT

**SOIL CLASSIFICATIONS \***  
SOIL CLASS SOIL DESCRIPTION

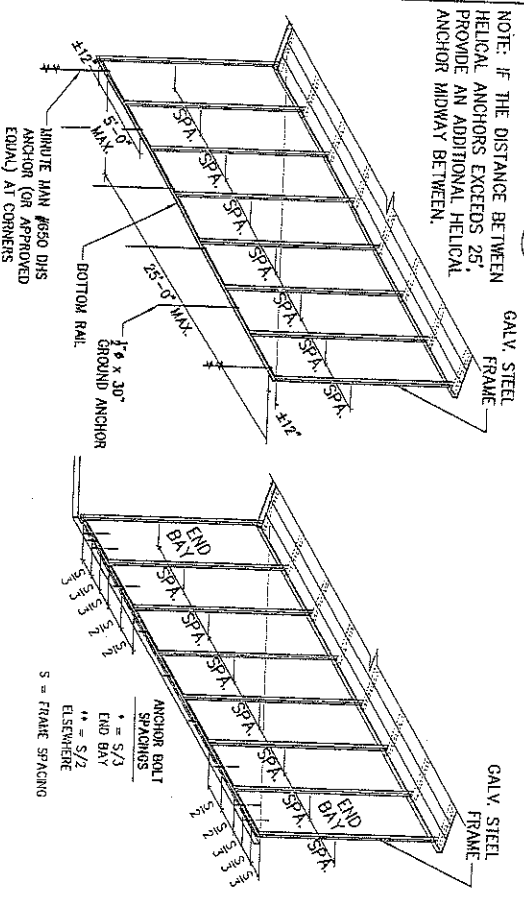
- 2 Very dense &/or cemented sands, coarse gravel and cobbles, caliche, preloaded silts, and clays.
- 3 Medium dense coarse sands, sandy gravels, very stiff silts, and clays.
- 4 Loose to medium dense sands, firm to stiff clays and silts alluvial fill and very loose to medium dense sands, firm to stiff clays and silts, alluvial fill.

THE HELICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

\* Taken from HUD "Standard for Installation of Mobile Homes"



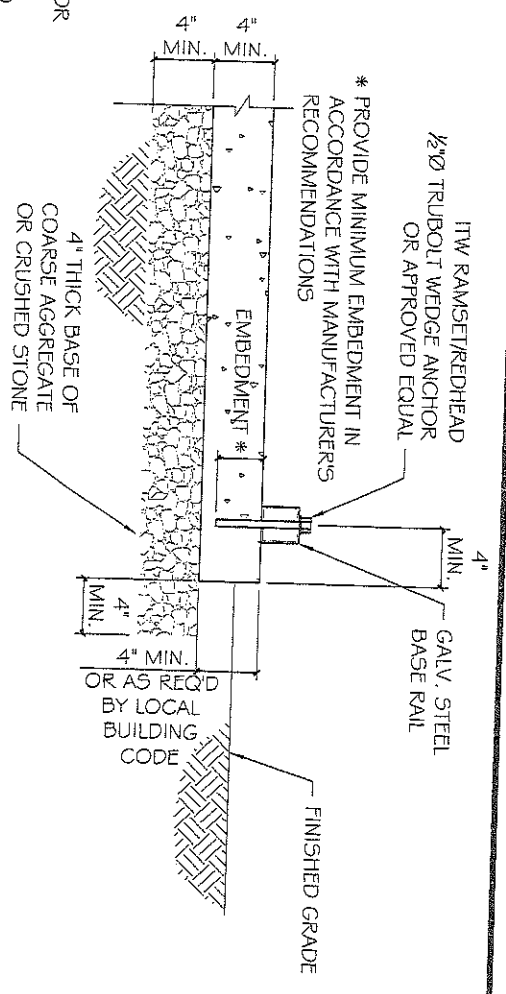
**SOIL BASE RAIL ANCHOR DETAIL**



NOTE: IF THE DISTANCE BETWEEN HELICAL ANCHORS EXCEEDS 25', PROVIDE AN ADDITIONAL HELICAL ANCHOR MIDWAY BETWEEN.



**CONCRETE BASE RAIL ANCHORAGE**

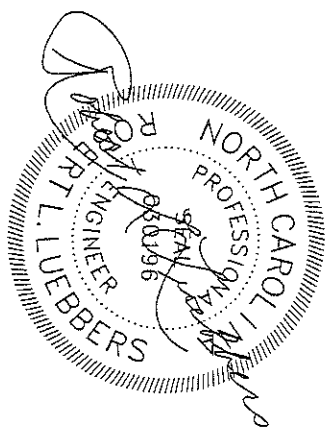


\* PROVIDE MINIMUM EMBEDMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

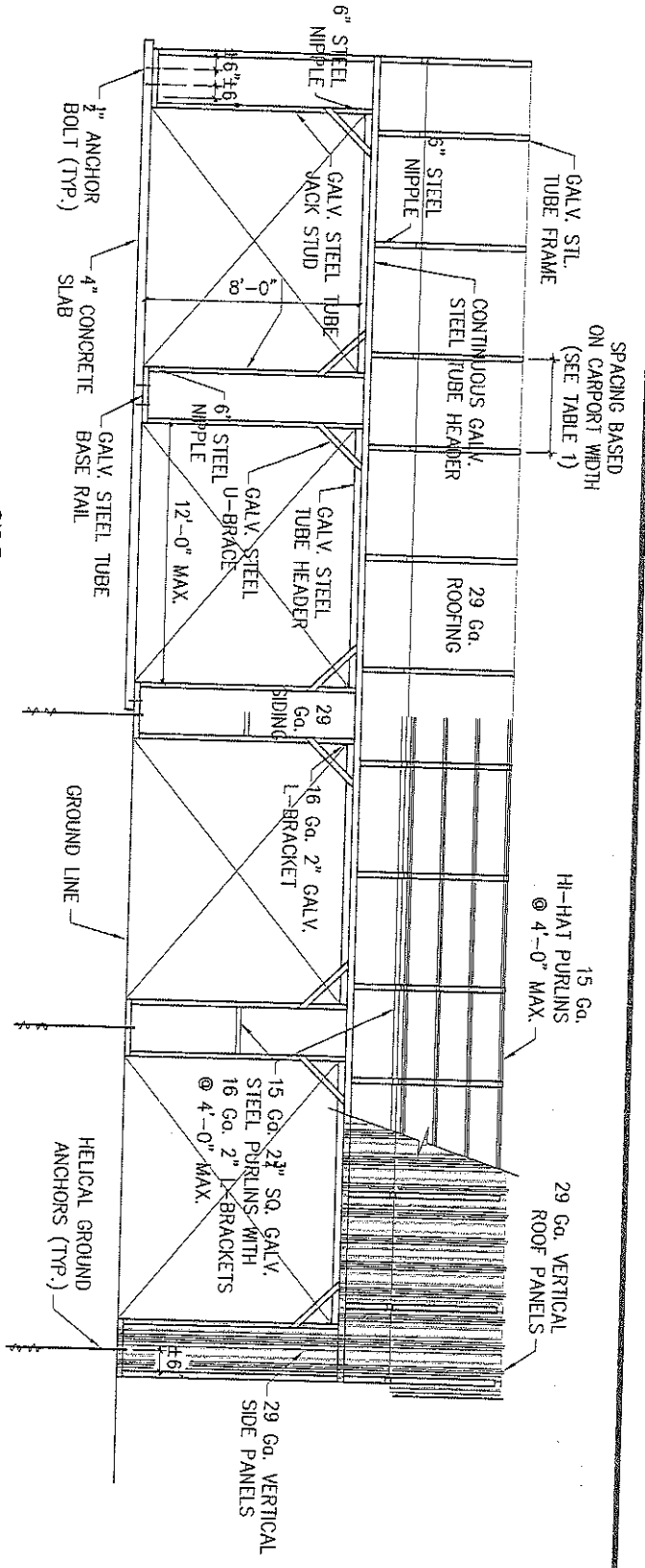
NOTES:

LIGHT GAGE METAL FRAME CARPORTS ARE VERY LIGHTWEIGHT AND FLEXIBLE STRUCTURES. THE BOTTOM RAIL IS USUALLY PLACED EITHER DIRECTLY ON LEVEL GROUND AND SECURED WITH GROUND ANCHORS, OR IS PLACED ON A 4" CONCRETE SLAB OVER A 4" LAYER OF STONE AND SECURED TO THE SLAB WITH  $\frac{1}{2}$ " ANCHOR BOLTS, EXTENDING THE FOUNDATION TO FROST DEPTH TO PREVENT HEAVING IS GENERALLY NOT REQUIRED. HOWEVER, THE OWNER IS RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE WHICH MAY BE MORE RESTRICTIVE.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH (F'c) OF 2500 PSI AT 28 DAYS.







SIDE OPENING OVERHEAD DOORS

