

**Govmark**  
 96-D Allen Boulevard  
 Farmingdale, New York 11735-5625 USA  
 Tel: +1 (831) 262-8844 Fax: +1 (831) 262-8898  
 e-mail: testing@govmark.com

Page 2  
 Received: 05/03/2018 | Completed: 05/07/2018 | Letter: Z | MB | P.O.#: | Test Report #: 3-25901-0-  
 Client's Style: Extralock Forest Green.  
 Tested For: Bernard Senekal  
 About (P.V.) Ltd.  
 Moonson Ave, Epping 2  
 Cape Town, 7460, South Africa  
 Key Test: NFPA 701-2015 TM2 Flat  
 475  
 Tel: 011 27 21 530 2400  
 Fax:

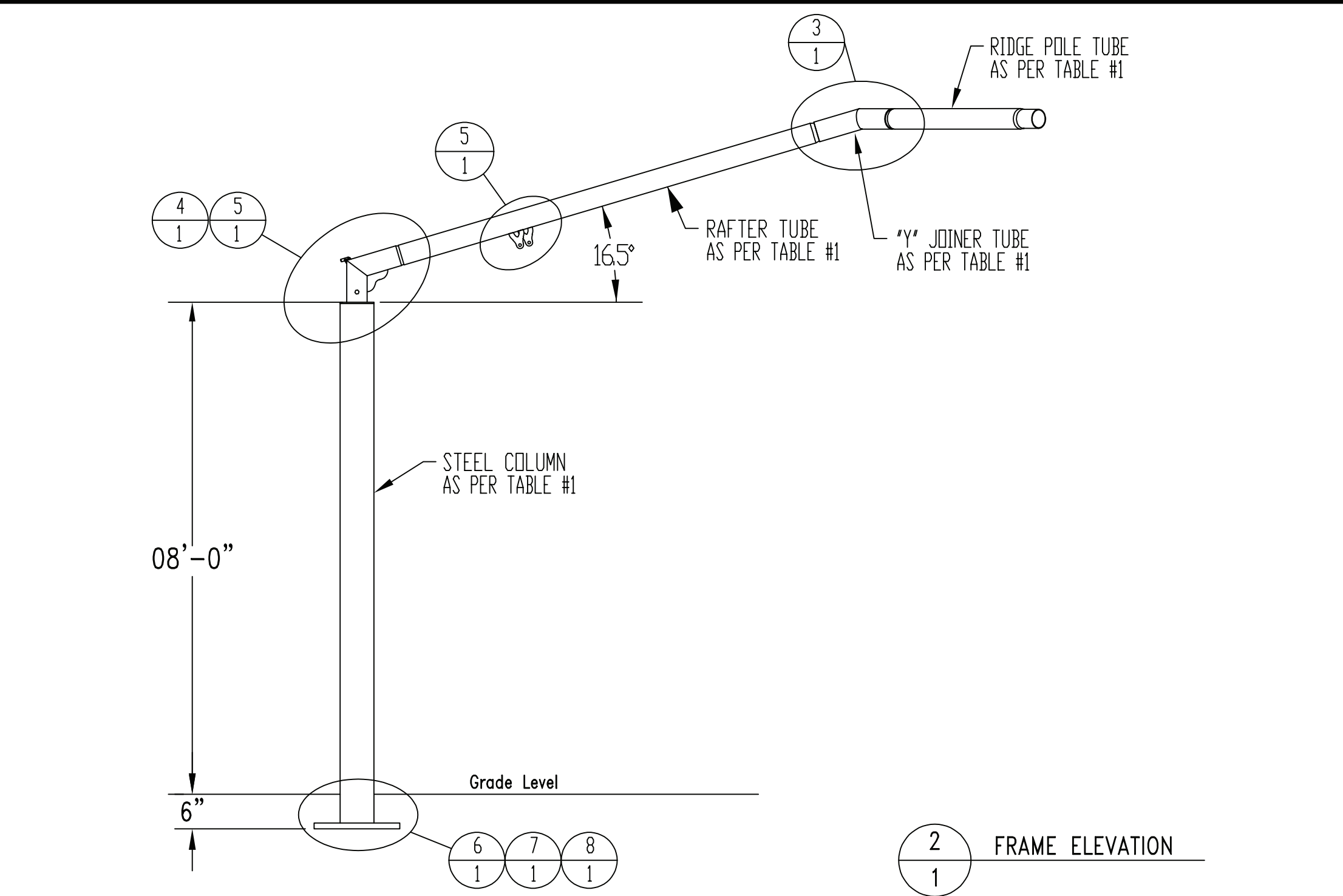
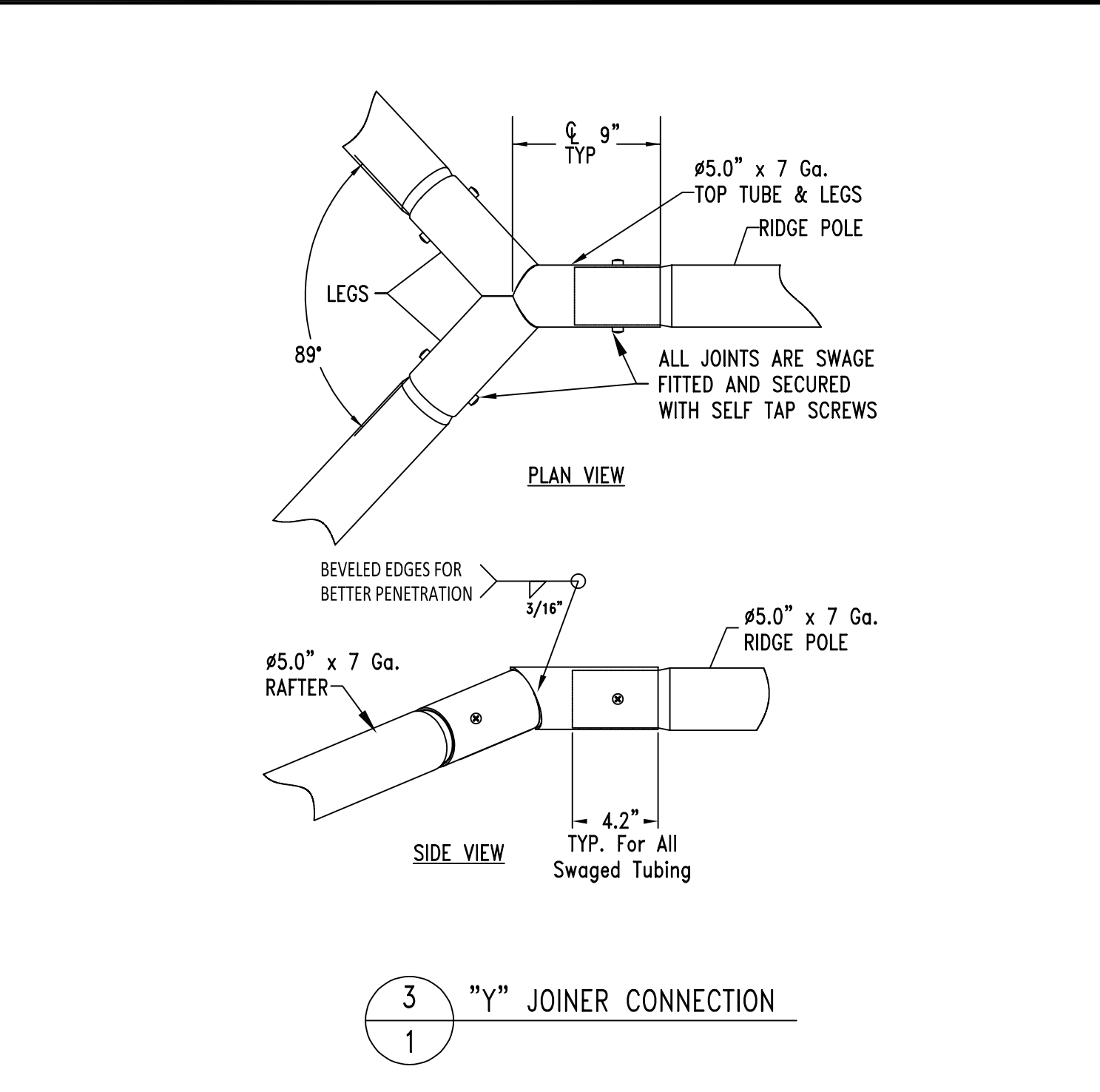
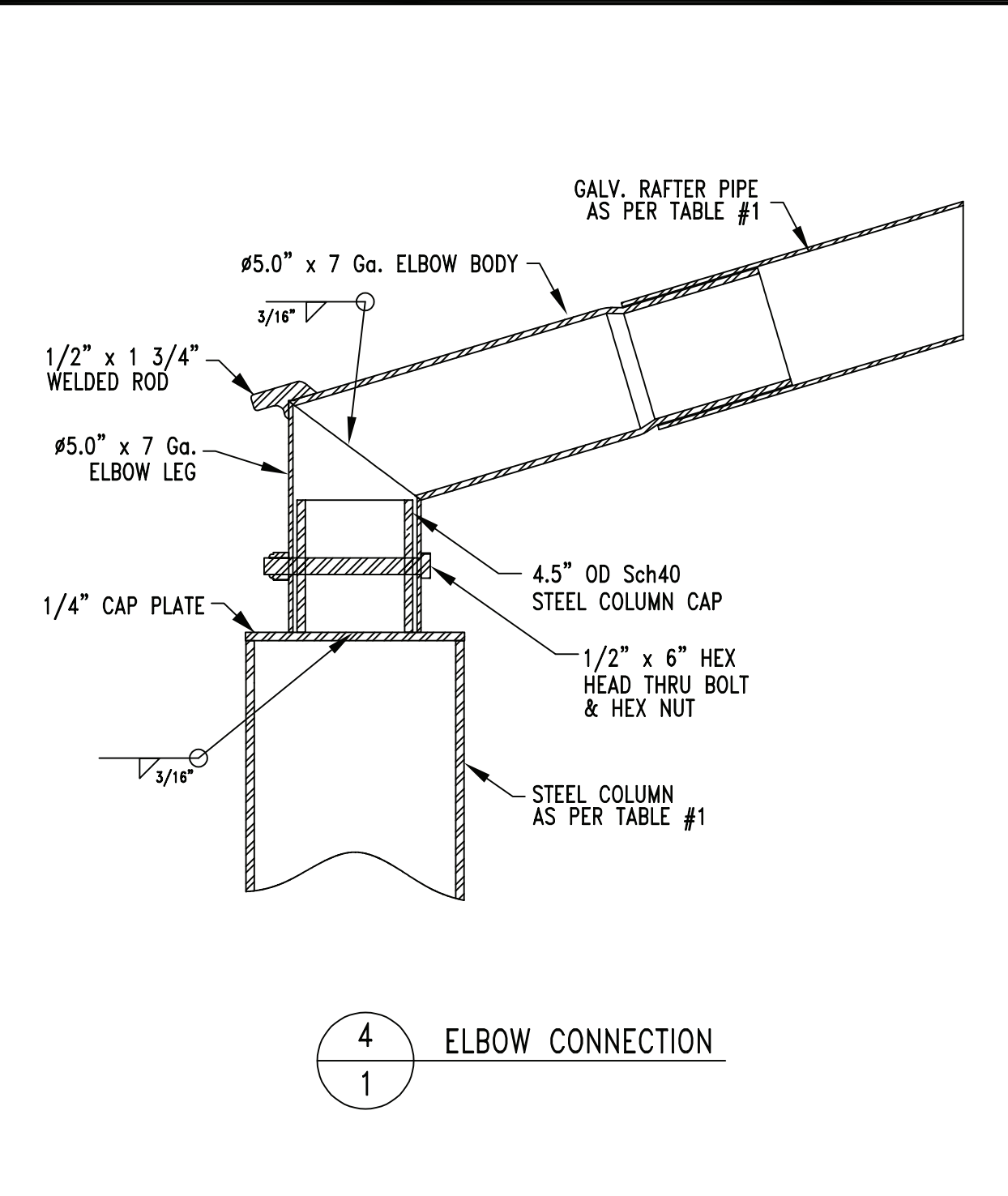
PRECONDITIONING: [ ] 1 hr @ 220° (Standard)  
 [x] 24 hrs @ 689°F (Alternate: Material shrinks/distorts @ 220°F)

REMARKS: None.

CONVERSION FACTORS:  
 mm = 25.4 = inches  
 g/m<sup>2</sup> = 28.35 x .835 = oz/yd<sup>2</sup>

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

AUTHORIZED SIGNATURE  
 GOVMARK  
 /ac /gb  
*Bobby Brown*  
 (Page 2 of 2)  
 MAY 08 2018



The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from Govmark. File Copy

**DESIGN CRITERIA**  
 2018 NORTH CAROLINA BUILDING CODE  
 RISK CATEGORY: II  
 DEAD LOAD:  
 FABRIC: 0.1 PSF  
 SNOW LOAD:  
 GROUND SNOW LOAD: 10 PSF  
 ROOF SNOW LOAD: 5 PSF (SEE OWNER NOTES)  
 SNOW EXPOSURE FACTOR: 1.0  
 SNOW LOAD IMPORTANCE FACTOR: 1.0  
 THERMAL FACTOR: 1.2  
 LIVE LOAD:  
 ROOF LIVE LOAD: 5 PSF  
 WIND LOAD:  
 ULTIMATE DESIGN WIND SPEED: 117 MPH  
 WIND IMPORTANCE FACTOR: 1.0  
 WIND EXPOSURE CATEGORY: C  
 WIND ENCLOSURE TYPE: OPEN  
 GUST EFFECT FACTOR: 0.89  
 SEISMIC DESIGN:  
 SEISMIC LOAD DOES NOT CONTROL THE DESIGN BASED ON THE ASSUMPTION THAT THE FABRIC HAS NEGLIGIBLE MASS

**OWNER NOTES**  
 1. MEMBRANE(S) MUST BE REMOVED IF LIVE LOAD/ROOF SNOW LOAD IS EXPECTED TO EXCEED 5 PSF AND/OR THE BASIC WIND SPEED IS EXPECTED TO EXCEED 105 MPH 3 SEC GUST OR 76 MPH SUSTAINED WIND LOADS (HURRICANE CATEGORY 1).  
 2. THE OWNER ACCEPTS FULL RESPONSIBILITY OF REMOVING THE FABRIC FROM THE STEEL FRAME WHEN ANY OR ALL OF THESE CONDITIONS MAY OCCUR.  
 3. THE STEEL STRUCTURE WITH THE FABRIC REMOVED, WAS DESIGNED TO WITHSTAND DEAD LOADS, ROOF LIVE LOADS, SNOW LOADS AND WIND SPEEDS AS SPECIFIED ABOVE PER THE LOCAL CODE REQUIREMENTS. IF THE ABOVE LOADS ARE EXCEEDED OR ADDITIONAL LOADS ARE INDUCED STRUCTURAL FAILURE MAY OCCUR. THE OWNER IS RESPONSIBLE FOR AND ACCEPTS FULL LIABILITY FOR ANY ISSUES CAUSED BY EXCEEDING THE DESIGN CRITERIA LOADS.

**GENERAL NOTES**  
 1. FABRIC MEETS NFPA 701-10.  
 2. ALL EXPOSED STEEL TO BE POWDERCOATED.

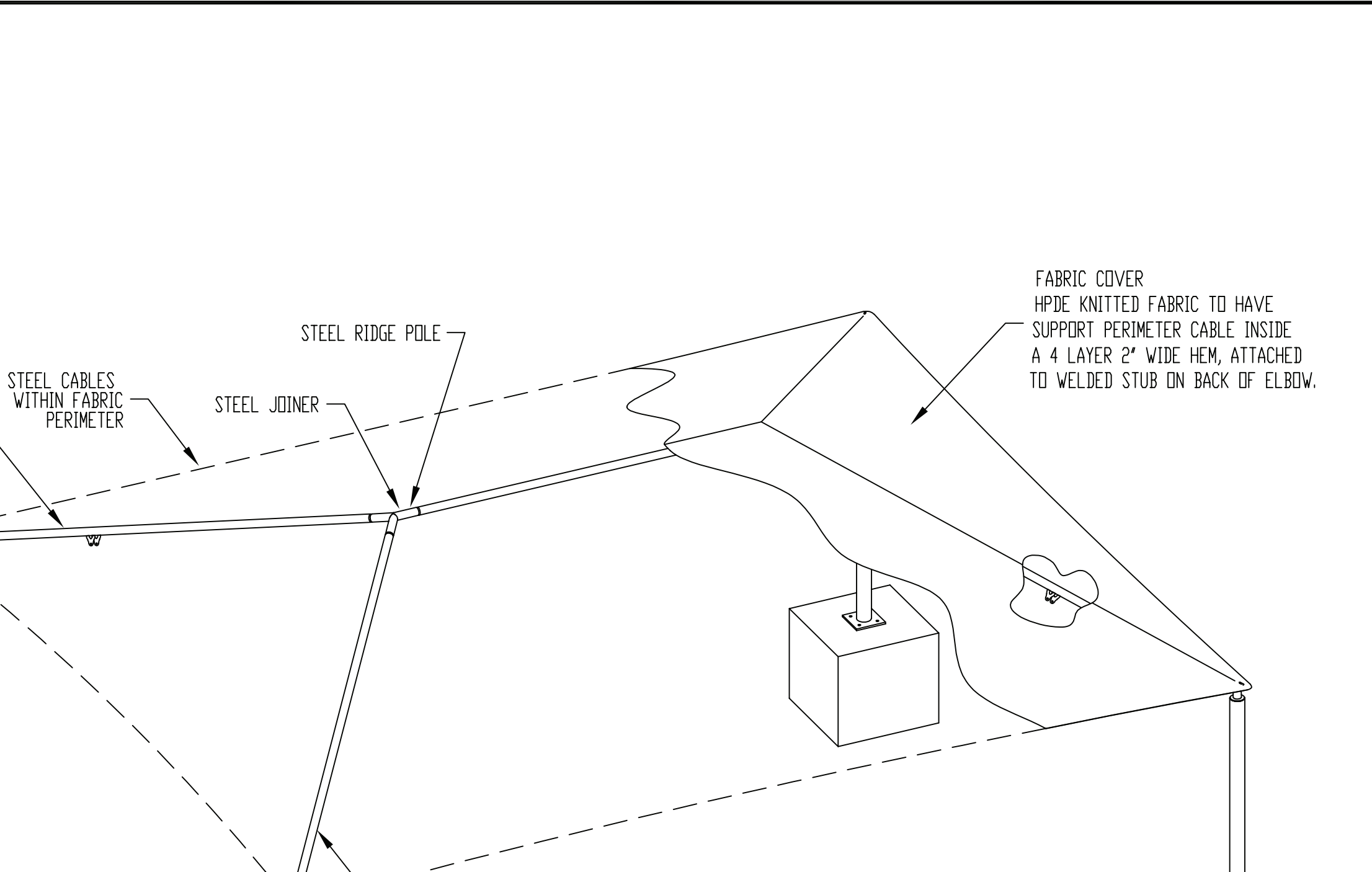
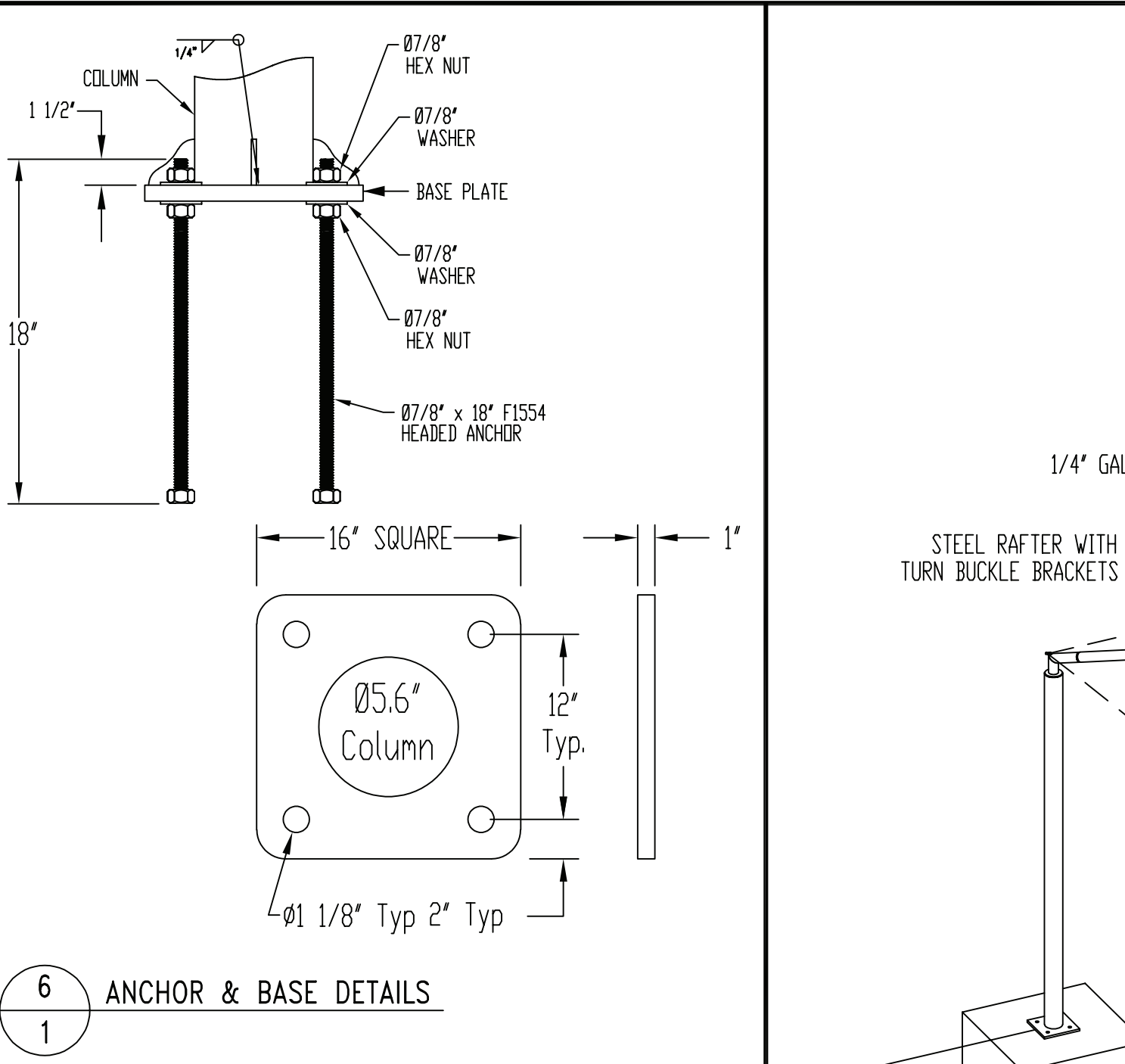
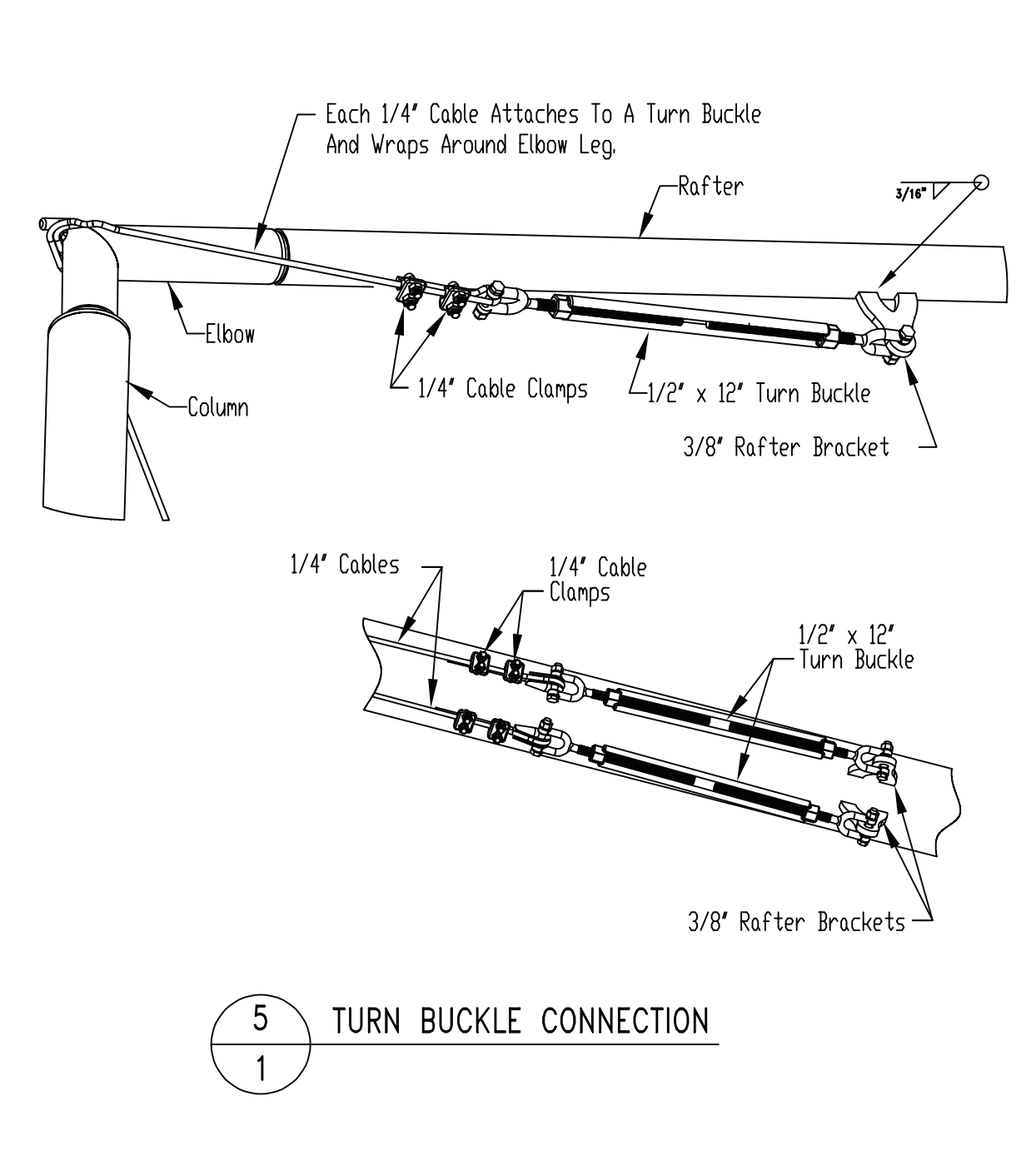
**FOUNDATION DESIGN**  
 MINIMUM CONCRETE COMPRESSIVE STRENGTH AFTER 28 DAYS: 3,000 PSI  
 STEEL REINFORCEMENT: ASTM-A615, GRADE 60  
 ASSUMED VERTICAL FOUNDATION PRESSURE: 1,500 PSF  
 ASSUMED LATERAL BEARING PRESSURE: 100 PSF/FT  
 THE VERTICAL AND LATERAL BEARING PRESSURE VALUES WERE CONSIDERED PER CONDITIONS OF CURRENT BUILDING CODE.

**FOUNDATION NOTES:**  
 1. THE FOUNDATION DESIGN IS BASED ON TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE, CLASS 5 SOIL MATERIAL. IF DIFFERENT SOIL CONDITIONS ARE ENCOUNTERED, IT IS RECOMMENDED THAT A SITE SPECIFIC GEOTECHNICAL REPORT IS CONDUCTED TO DETERMINE THE LOAD BEARING VALUES OF THE SOIL. OWNER / CONTRACTOR ASSUME FULL LIABILITY IF NO GEOTECHNICAL INVESTIGATIONS ARE CONDUCTED.  
 2. IF THE FOOTING DEPTH DOES NOT MEET LOCAL FROST REQUIREMENTS, FOOTINGS SHALL BE RE-SIGNED UNDER THE DIRECTION OF AN ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST DEPTH.

**MATERIALS**  
 1. ALL MATERIALS LISTED BELOW MAY NOT BE SPECIFIC TO THIS PROJECT.

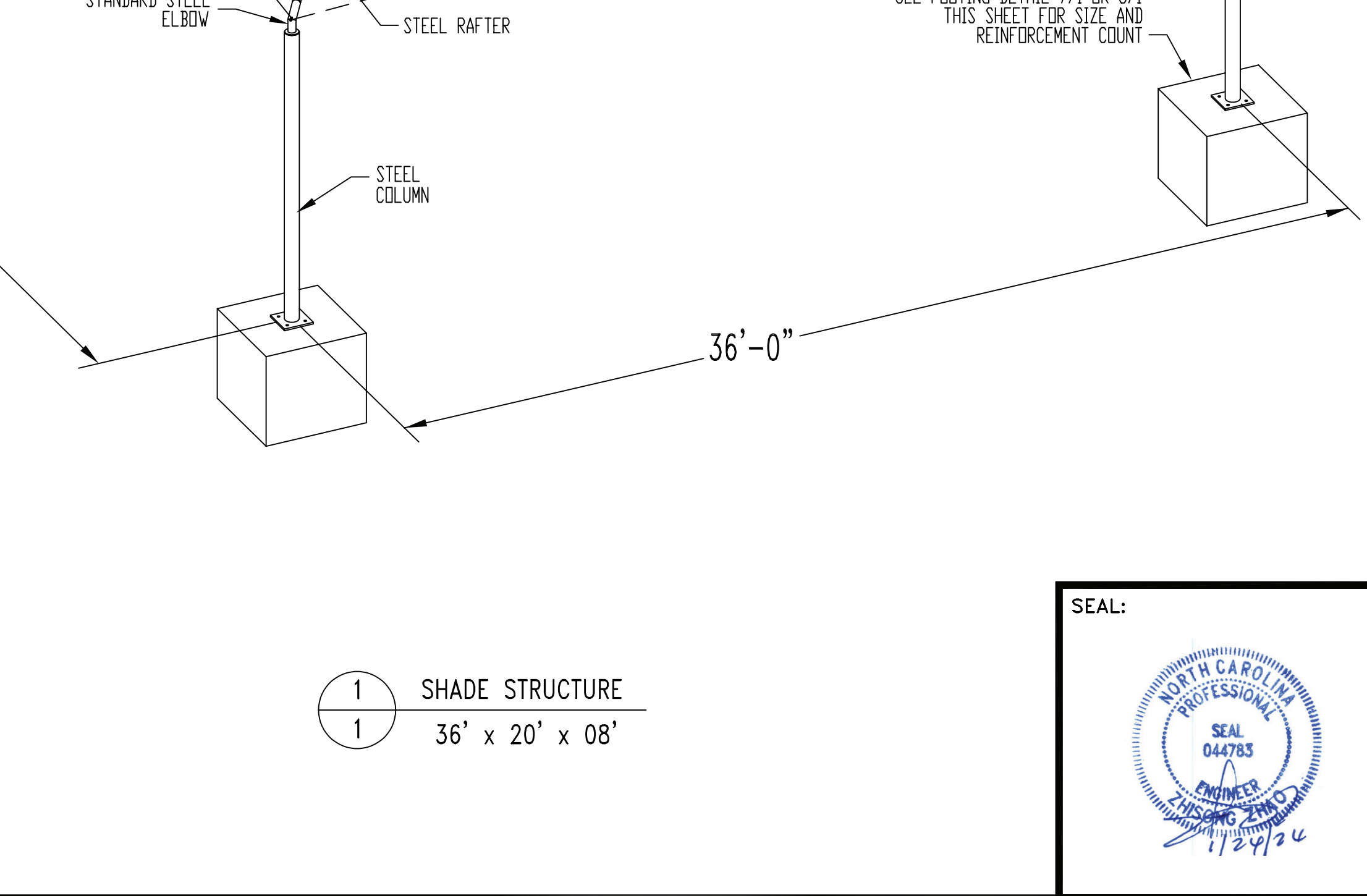
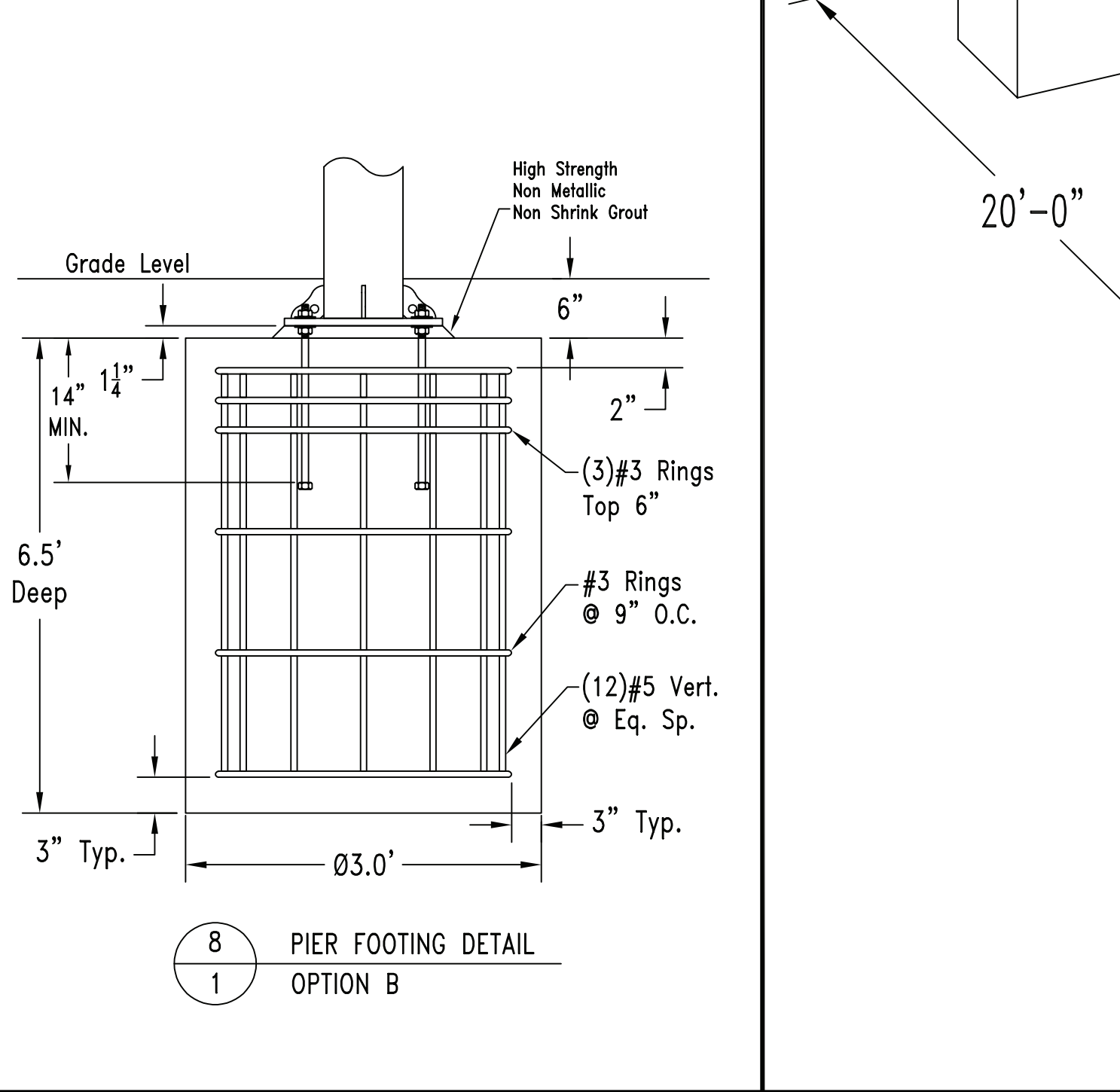
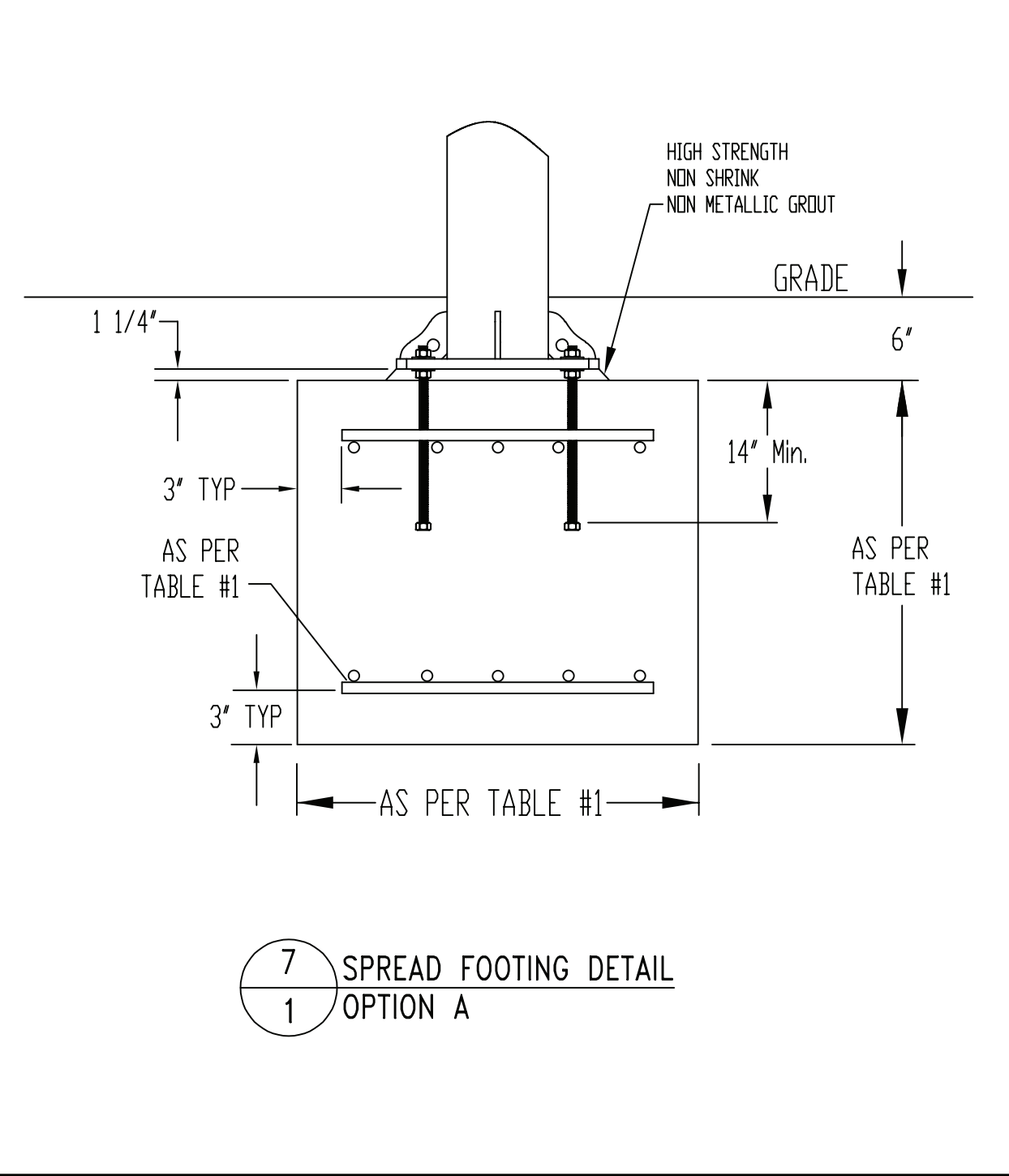
MEMBER TYPE	ASTM	MIN. YIELD STRENGTH
W SHAPES	A992	50 KSI
RECTANGULAR HSS TUBES	A500(GRADE B)	46 KSI
SQUARE HSS TUBES	A500(GRADE B)	46 KSI
ROUND HSS TUBES	A500(GRADE B)	42 KSI
SCHEDULE PIPE	A500(GRADE B&C)	50 KSI
ROUND MECHANICAL TUBING	A519	45 KSI
MISCELLANEOUS PLATES/SHAPES	A36	36 KSI
CONNECTION BOLTS	F593	45 KSI
HEADED ANCHOR BOLTS	F1554	36 KSI
HOOKED ANCHOR BOLTS	A307	36 KSI

1/4" STAINLESS STEEL AIRCRAFT CABLE SHALL HAVE A NOMINAL STRENGTH OF 5,600 LBS.



**TABLE 1**

STRUCTURE	EAVE HEIGHT	COLUMN SIZE	FRAME TUBE SIZE	SPREAD FOOTING SIZE	SPREAD FOOTING REINF.	BASEPLATE
36' x 20' Hip Shade	08'-0" Above Grade	5.0" ID Sch-40	5.0" OD 7 Gauge	4.75' x 3.0' Deep	(6)#5 EW Top & Bot	16" x 16" 1" Thk.



**SUPERIOR**  
 RECREATIONAL PRODUCTS  
 Shade

Superior Shade  
 150 Adamson Industrial Blvd.  
 Carrollton, GA 30117

STATE OF NORTH CAROLINA  
 HIGHLAND ELEMENTARY  
 1915 Buffalo Lake Road  
 Sanford, NC, 27332

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Revisions:  
 Date: By:

Drawn: MRI  
 Date: 1/22/24  
 Chkd:  
 Date:

S00249826

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 Sheet No.