

# GENERAL NOTES

## DESIGN LOADS

BUILDING CODE	IBC 2021
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF, STEEL FRAME WITH FABRIC ATTACHED 15 PSF, STEEL FRAME WITH FABRIC REMOVED
WIND LOADS	115 MPH
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 115 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 90 MPH ACCORDING TO ASCE 7-16 AND IBC 2021 EQ 16-17.

## STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:  
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE  
 ROUND PIPE 50,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:  
 ROUND TUBE 50,000 PSI YIELD / 56,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS

## FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS:	<b>SOLID COLORS</b>	<b>STRIPE COLORS</b>
- TEAR STRENGTH	WARP 220.4622 LB	WARP 182.9836LB
	WEFT 462.9707 LB	WEFT 401.2413LB
- BURST STRENGTH	37.7098 PSIA	33.0686 PSIA
- FADING	MINIMUM FADING AFTER 5 YEARS	
- LIFE EXPECTANCY	A MINIMUM OF 8 YEARS CONTINUOUS	
EXPOSURE TO THE SUN		

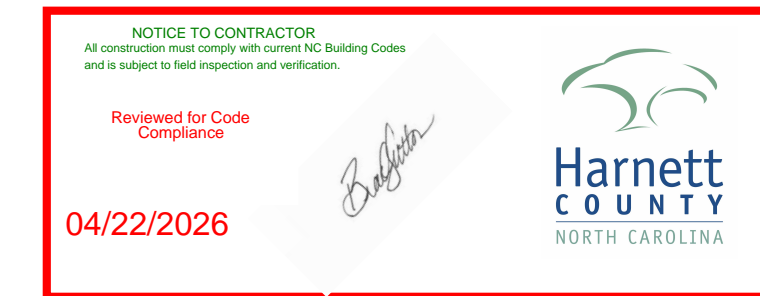
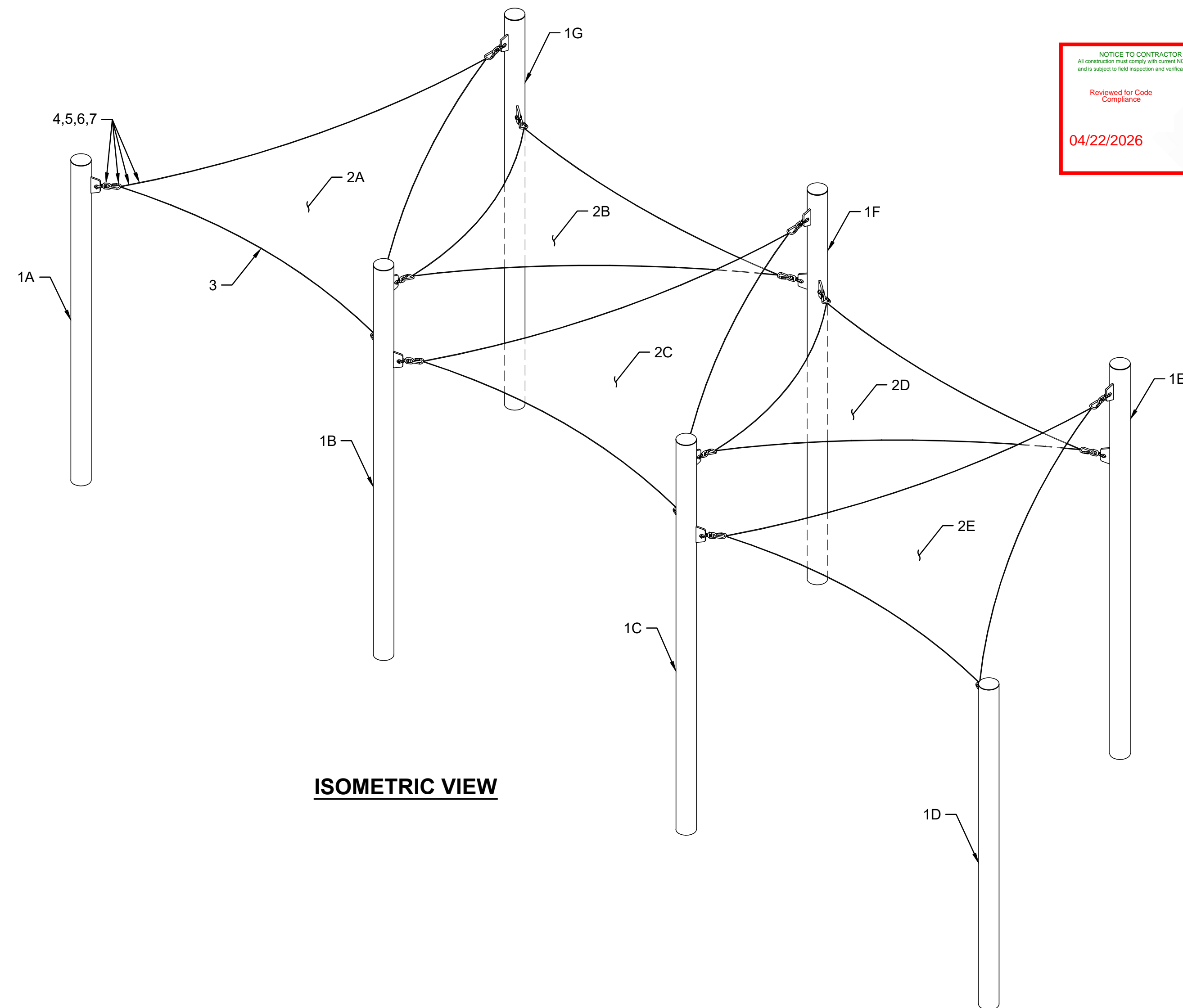
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

## AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 7,000 LBS (1/4" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



ISOMETRIC VIEW

## NOTICE

FABRIC SHALL BE REMOVED IF EITHER CONDITIONS ARE ANTICIPATED:

1. SNOW LOAD EXCEEDS 5 PSF.
2. WIND SPEED EXCEEDS 115 MPH ULTIMATE (90 MPH ALLOWABLE).

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	525	N/A
SEE PAGE 2000				

LIST OF MATERIALS				
ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
<b>STEEL AND BOLTS</b>				
1A	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1B	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1C	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1D	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1E	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1F	1	COLUMN	HSS Ø8.625 x 0.322	N/A
1G	1	COLUMN	HSS Ø8.625 x 0.322	N/A
800	56	ANCHOR ROD SET 1-1/4" x 27"	F1554 GR55 (GALVANIZED)	309831
<b>FABRIC AND HARDWARE</b>				
2A	1	FABRIC (CUSTOM)	HDPE MESH	AREA: 57 SQF, WEIGHT: 2 LBS
2B	1	FABRIC (CUSTOM)	HDPE MESH	AREA: 57 SQF, WEIGHT: 2 LBS
2C	1	FABRIC (CUSTOM)	HDPE MESH	AREA: 57 SQF, WEIGHT: 2 LBS
2D	1	FABRIC (CUSTOM)	HDPE MESH	AREA: 57 SQF, WEIGHT: 2 LBS
2E	1	FABRIC (CUSTOM)	HDPE MESH	AREA: 57 SQF, WEIGHT: 2 LBS
3	15	25 FT OF Ø1/4" STEEL CABLE	GALVANIZED CABLE	307604
4	66	Ø1/4" CABLE CLAMP	GALVANIZED	307633
5	33	Ø1/4" THIMBLE	GALVANIZED	308063
6	15	5/8" SWIVEL JAW END	GALVANIZED	308071
7	15	5/8" QUICK LINK	ZINC PLATED	307695

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



**CORPORATE HEADQUARTERS**  
 2580 ESTERS BLVD., SUITE 100  
 DFW AIRPORT, TX 75261  
 800-966-5005

**CERTIFICATIONS:**  
 IAS CERTIFICATION No: FA-428  
 CLARK COUNTY MANUFACTURER  
 CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**  
**COAT001**  
  
**PROJECT NAME:**  
**COATS DOWNTOWN PLAZA EO & ABS**  
  
**LOCATION:**  
**COATS, NC**  
  
**PROJECT NUMBER:**  
**97892**

**STRUCTURE TYPE:**  
**JOINED 3-PT. SAILS FULL CUSTOM**

**SIZE:**  
**SEE PAGE 2000**

**SCALE :** AS NOTED

**DRAWING SIZE:**  
**B**

FULL CUSTOM	IMGZ	ENG
	MSM	CHK
	MSM	DRW
	02/23/26	DATE
NC	REV	

Eng. By : **MGZ** 02/23/26  
 Design By : **MSM** 02/23/26  
 Approved By : **HH-SM** 02/23/26

**DRAWING DESCRIPTION:**  
**NOTES / LOM**

**DWG.**  
**97892-1.0**

**PAGE**  
**1000**

**REV.**  
**NC**



**REINFORCED CONCRETE NOTES**

- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:
  - 28 DAY STRENGTH: 2500 PSI
  - SLUMP: 3-5
  - PORTLAND CEMENT SHALL CONFORM TO C-150
  - AGGREGATE SHALL CONFORM TO ASTM C-33
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 4

PLAN NORTH



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



**CORPORATE HEADQUARTERS**  
2580 ESTERS BLVD., SUITE 100  
DFW AIRPORT, TX 75261  
800-966-5005

**CERTIFICATIONS:**  
IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

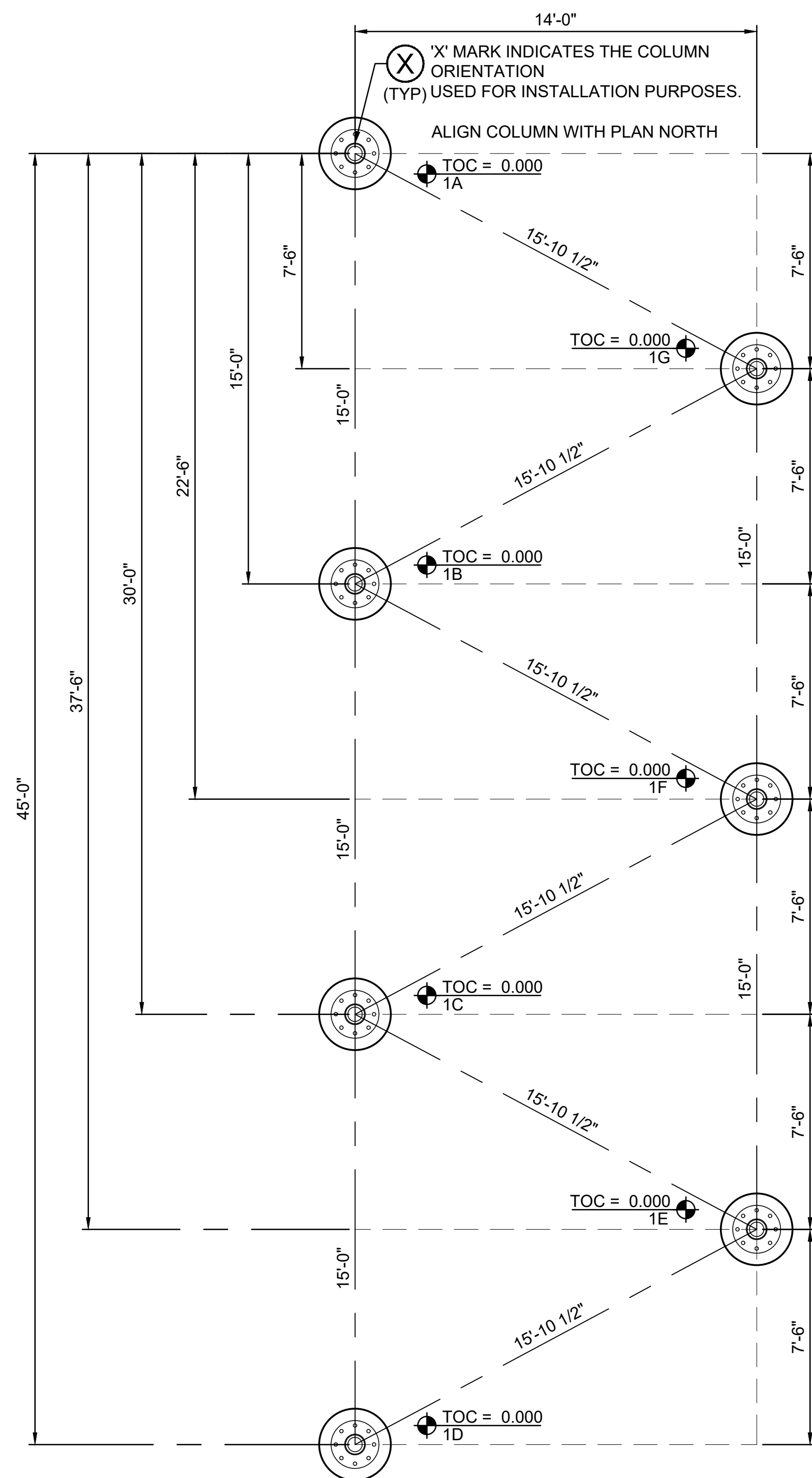
**CUSTOMER:**  
**COAT001**  
**PROJECT NAME:**  
**COATS DOWNTOWN PLAZA EO & ABS**  
**LOCATION:**  
**COATS, NC**  
**PROJECT NUMBER:**  
**97892**

**STRUCTURE TYPE:**  
**JOINED 3-PT. SAILS FULL CUSTOM**

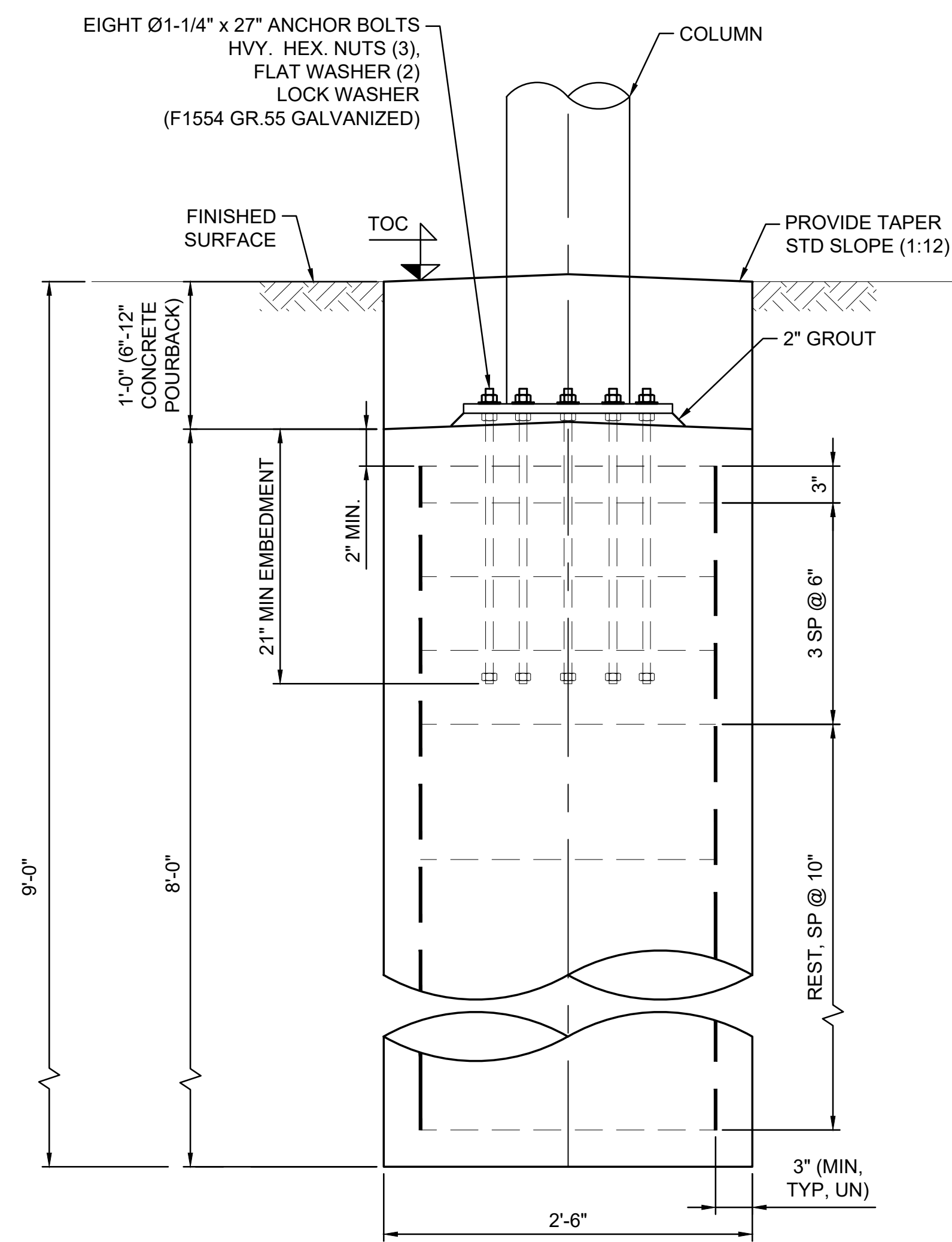
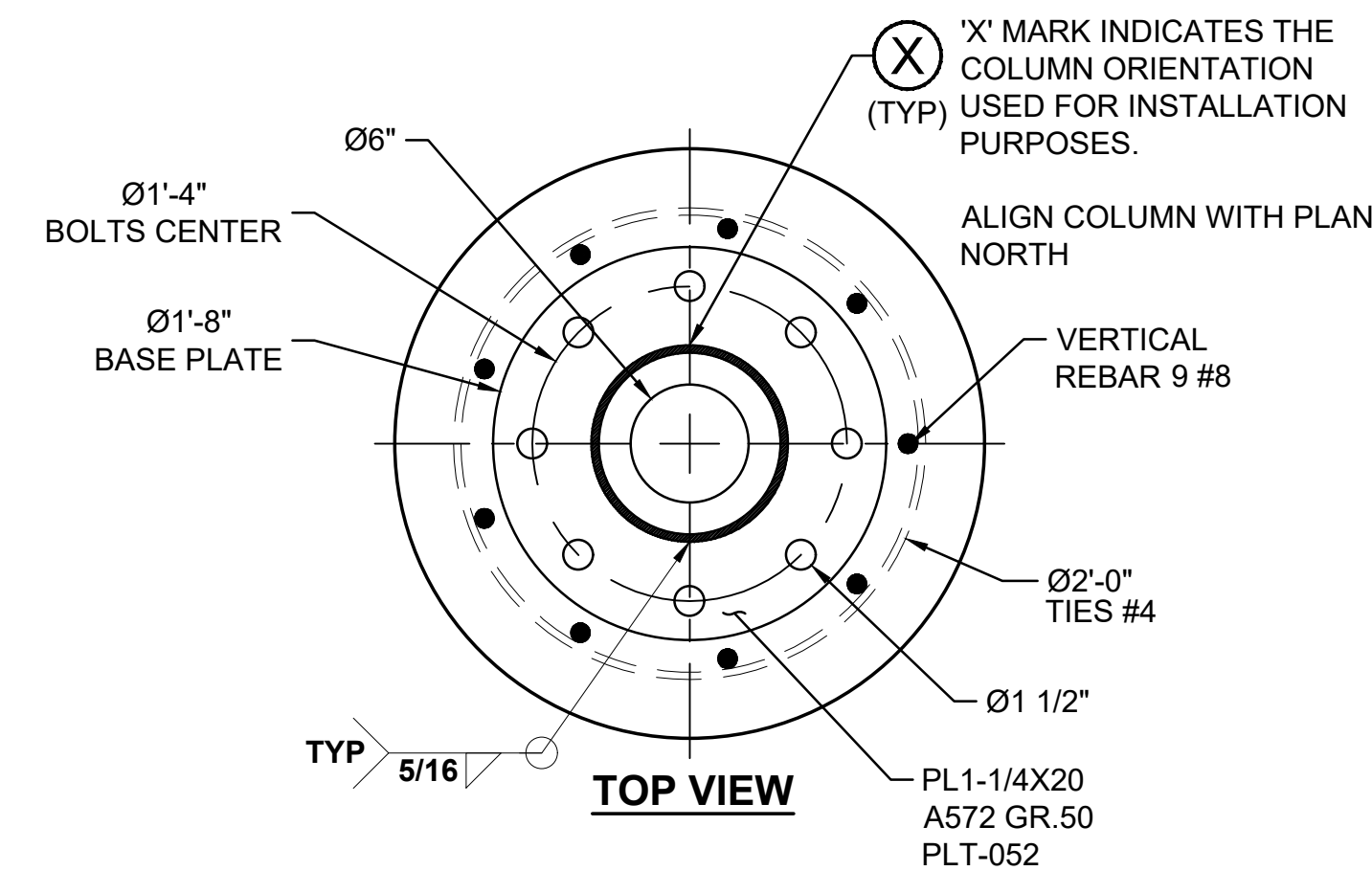
**SIZE:**  
**SEE PAGE 2000**

**SCALE :** AS NOTED

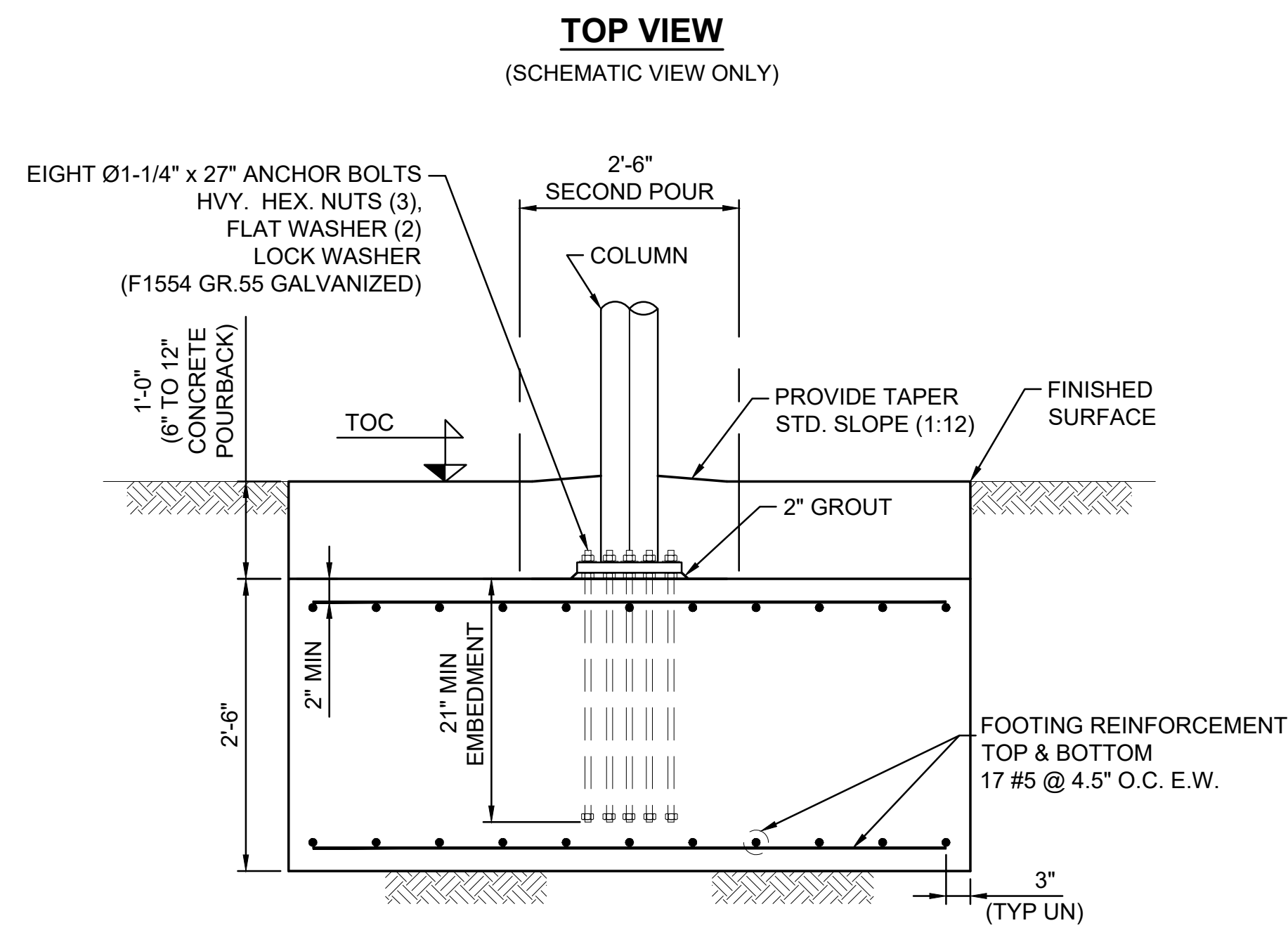
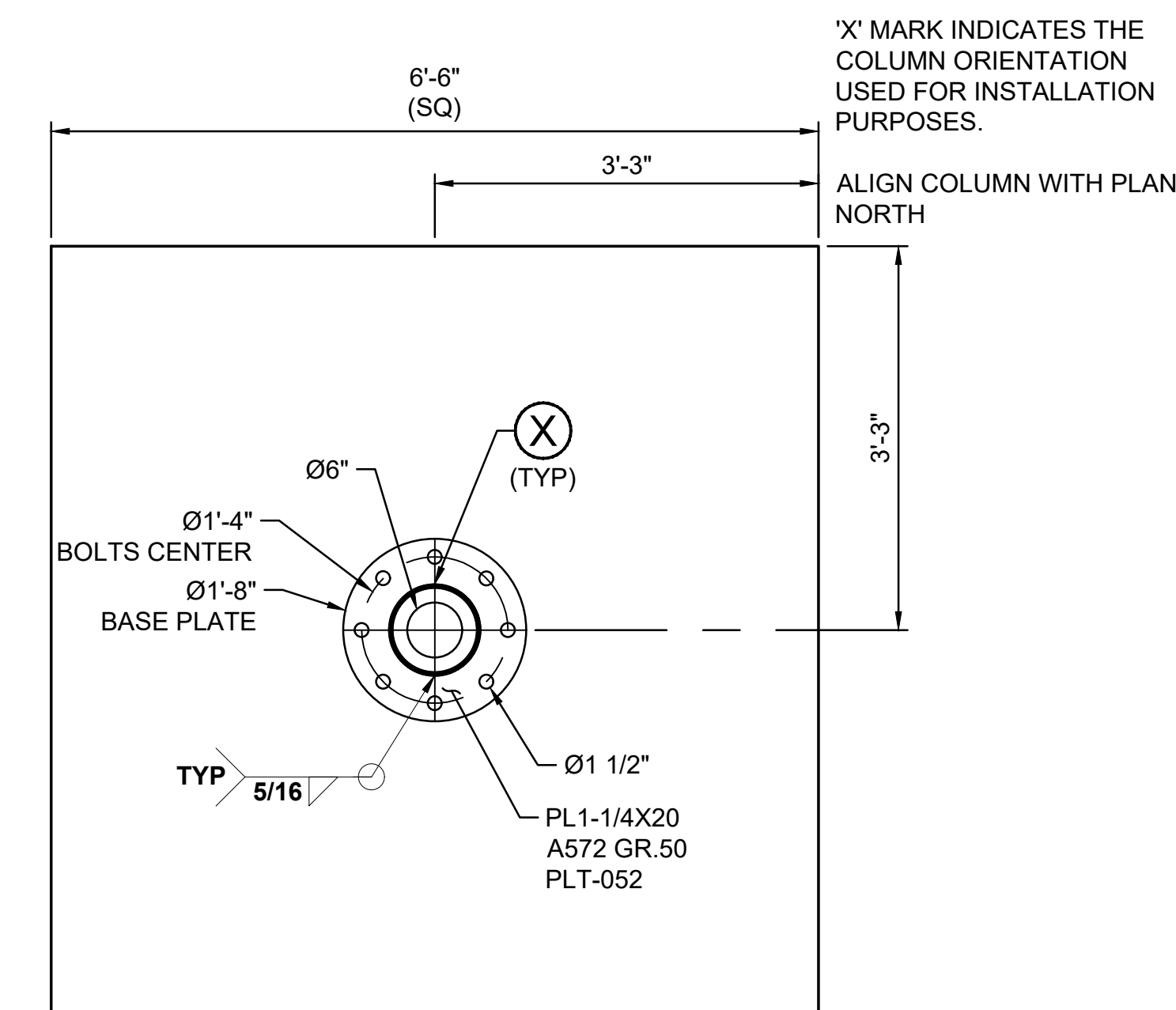
**DRAWING SIZE:**  
**B**



**FOUNDATION LOCATION LAYOUT**  
(ELEVATIONS ARE IN FEET)  
(FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS)



**FOOTING TYPE Ø2'-6" X 8'-0" TD**  
(RBP-RECESSED BASE PLATE)  
USE FOR NON-CONSTRAINED CASES



**ALTERNATE SPREAD FOOTING**  
(SCHEMATIC VIEW ONLY)

NO.	DATE	CHK	ENG	DESCRIPTION	
					SM
02/23/26 <td> <td>MSM <td>DRW <td>MSM </td></td></td></td>	<td>MSM <td>DRW <td>MSM </td></td></td>	MSM <td>DRW <td>MSM </td></td>	DRW <td>MSM </td>	MSM	
		MGZ <td>CHK <td>MGZ </td></td>	CHK <td>MGZ </td>	MGZ	
		NC	REV <td>NC</td>	NC	
Eng. By :		MGZ	02/23/26		
Design By :		MSM	02/23/26		
Approved By :		HH-SM	02/23/26		
<b>DRAWING DESCRIPTION:</b>					
<b>FOOTING DETAILS</b>					
DWG.	<b>97892-1.0</b>				
PAGE	<b>3000</b>				
REV.	<b>NC</b>				