

# verizon

SITE NAME: PHO\_ZUZU-VALLEYHO\_2\_SC  
(SMALL CELL)



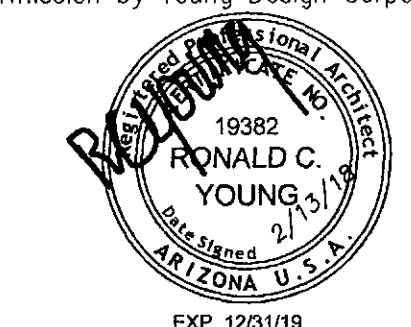
SITE PHOTO

CLIENT  
**verizon**  
126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY  
**Young design corp**  
architecture / project management  
10245 E. Via Linda, Scottsdale, AZ 85258  
ph: 480 451 9609 fax: 480 451 9608  
e mail: corporate@ydcoffice.com

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PRELIMINARY UNLESS SIGNED

NO.	DATE	DESCRIPTION
0	10/10/2017	SUBMITTAL

ARCHITECTS JOB NO.  
**YDC-6199**

PROJECT INFORMATION  
**PHO\_ZUZU-VALLEYHO\_2\_SC**  
SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

SHEET TITLE  
**TITLE SHEET**

JURISDICTION APPROVAL

**APPROVED**  
FINAL PLANS PLANNING  
DATE: 2-27-17  
APPROVED BY: KN

SHEET NUMBER  
**T-1**

NOTES

CONSTRUCTION WILL NOT BE ALLOWED BETWEEN NOV. 20, 2017 THROUGH MARCH 31, 2018.

GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION

- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
- THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF AN ENFORCEMENT PERMIT FOR CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- A PUBLIC WORKS INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY INSPECTION SERVICES 24 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING 480-312-5750.
- WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 602-283-1100, TWO WORKING DAYS BEFORE EXCAVATION BEGINS. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT. CALL "COLLECT" IF NECESSARY.
- ENCROACHMENT PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. AN ENCROACHMENT PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER THE REGISTRANT HAS PAID A BASE FEE PLUS A FEE FOR INSPECTION SERVICES. COPIES OF ALL PERMITS MUST BE RETAINED ONSITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- ALL EXCAVATION AND GRADING THAT IS NOT IN THE PUBLIC RIGHTS-OF-WAY OR NOT IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO CHAPTER 70, EXCAVATION AND GRADING, OF THE LATEST EDITION OF THE UNIFORM BUILDING CODE PREPARED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY FOR A FEE ESTABLISHED BY THE UNIFORM BUILDING CODE.

CONSTRUCTION NOTES

- REFER TO CITY OF SCOTTSDALE WATER SEPARATION DETAIL 2372
- REFER TO CITY OF SCOTTSDALE SEWER SEPARATION DETAIL 2401
- REFER TO CITY OF SCOTTSDALE PAVEMENT REPLACEMENT DETAIL 2200
- REFER TO CITY OF SCOTTSDALE TRENCH BACKFILL DETAIL 2201

SHEET INDEX

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- PF6.0 CANISTER DETAILS
- PF7.0 FRP DETAILS
- PF8.0 FRP SIGN DETAILS & METAL TOPPER

CLIENT

VERIZON WIRELESS  
126 W. GEMINI DR.  
TEMPE, ARIZONA, 85283  
CONTACT: DIEGO TORRES  
PHONE: (602) 819-2949

PROPERTY OWNER

CITY OF SCOTTSDALE  
7447 E. INDIAN SCHOOL ROAD  
SCOTTSDALE, ARIZONA, 85251  
CONTACT: KEITH NIEDERER  
PHONE: (480) 312-2953

SITE ACQUISITION

SMARTLINK, L.L.C.  
605 W. KNOX ROAD, STE 210  
TEMPE, AZ, 85284  
CONTACT: MARCK SAWYER  
PHONE: (480) 550-2088

ARCHITECT

YOUNG DESIGN CORP.  
10245 E. VIA LINDA, SUITE 211  
SCOTTSDALE, ARIZONA, 85258  
CONTACT: BRIAN CUNNINGHAM  
PHONE: (480) 451-9609  
FAX: (480) 451-9608

SURVEYOR

RLF CONSULTING  
1214 N. STADEM DR.  
TEMPE, AZ, 85281  
CONTACT: RYAN FIDLER  
PHONE: (480) 445-9189

PROJECT DATA

LEASEE: VERIZON WIRELESS  
126 W. GEMINI DR.  
TEMPE, ARIZONA, 85283

ZONING: DO

APN: R.O.W.

ARLA VOLUME: 47.0 CU. FT.

JURISDICTION: CITY OF SCOTTSDALE

BUILDING CODES: 2012 I.B.C.  
2011 N.E.C.  
2012 I.M.C.  
2012 I.F.C.

PROJECT DESCRIPTION

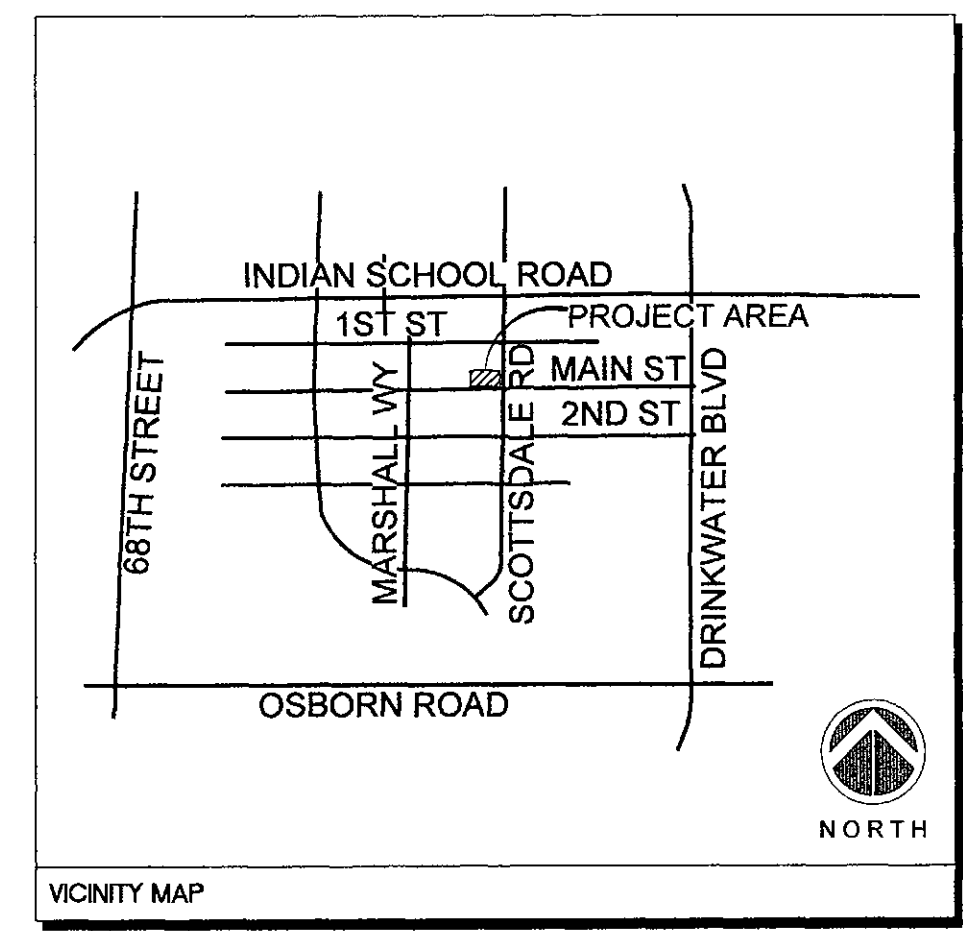
THE PROJECT CONSISTS OF THE INSTALLATION OF (2) ANTENNAS MOUNTED INSIDE A NEW ROTATED REPLACEMENT SIGN POST. FACILITY IS UNMANNED AND IS NOT DESIGNED FOR HUMAN HABITATION.

SITE COORDINATES

LATITUDE: 33° 29' 35.036" N  
LONGITUDE: 111° 55' 34.582" W  
GROUND ELEVATION: 1257.6' A.M.S.L.

SITE DIRECTIONS

FROM VERIZON OFFICE IN TEMPE, ARIZONA: DEPART W. GEMINI DR TOWARD S. MAPLE AVE. TURN RIGHT ONTO S. MAPLE AVE. TURN LEFT ONTO W. GUADALUPE RD. ROAD NAME CHANGES TO E. GUADALUPE RD. TURN LEFT ONTO S. RURAL RD. TAKE RAMP RIGHT FOR US-60 EAST TOWARD MESA / GLOBE. AT EXIT 176B, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR AZ-101 LOOP NORTH. AT EXIT 48, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR THOMAS RD. TURN LEFT ONTO E. THOMAS RD. TURN RIGHT ONTO N. SCOTTSDALE RD. TURN LEFT ONTO E. MAIN ST. ARRIVE AT E. MAIN ST ON THE LEFT. THE VERIZON ANTENNAS ARE ON THE TRAFFIC SIGNAL POLE LOCATED ON THE SW CORNER OF E. MAIN ST & N. SCOTTSDALE RD.



STIPULATIONS - CASE # 44-DR-2016

- EXCEPT AS REQUIRED BY THE SCOTTSDALE REVISED CODE, THE DESIGN STANDARDS AND POLICIES MANUAL (DPSM), AND OTHER STIPULATIONS HEREIN, THE SITE DESIGN AND CONSTRUCTION SHALL SUBSTANTIALLY CONFORM TO THE FOLLOWING DOCUMENTS:
  - ARCHITECTURAL ELEMENTS, INCLUDING DIMENSIONS, MATERIALS, FORM, COLOR, AND TEXTURE SHALL BE CONSTRUCTED TO BE CONSISTENT WITH THE BUILDING ELEVATIONS SUBMITTED BY YOUNG DESIGN CORP. AND VERIZON WIRELESS, WITH A CITY STAFF DATE OF 11/14/2016.
  - THE LOCATION AND CONFIGURATION OF THE SITE IMPROVEMENTS SHALL BE CONSISTENT WITH THE SITE PLAN SUBMITTED BY YOUNG DESIGN CORP. AND VERIZON WIRELESS, WITH A CITY STAFF DATE OF 11/14/2016.
- ARCHITECTURAL DESIGN: DRB STIPULATIONS
- THE ANTENNAS, CABLES, RADIOS AND OTHER EQUIPMENT SHALL BE LOCATED ON THE INSIDE OF THE REPLACEMENT SIGN POLE, AND SHALL NOT BE VISIBLE.
- COLORS OF REPLACEMENT POLE SHALL BE SIMILAR TO THE OLD TOWN SCOTTSDALE SIGN AT THE NORTHEAST CORNER OF MAIN STREET AND SCOTTSDALE ROAD.
- ELECTRIC METER SHALL BE PLACED BETWEEN THE TWO NEW POLES, AND BE PAINTED TO MATCH THE POLES.
- ADDITIONAL ITEMS: DRB STIPULATIONS
- WITH THE FINAL PLANS SUBMITTAL, THE DEVELOPER SHALL SUBMIT A COMPLETED ANTENNA SITE RIGHT-OF-WAY LICENSE AGREEMENT (ARLA) DOCUMENT THAT HAS BEEN APPROVED BY THE CITY'S TELECOMMUNICATIONS POLICY COORDINATOR.
- PRIOR TO CONSTRUCTION, THE APPLICANT SHALL OBTAIN PERMISSION TO WORK IN THE RIGHT-OF-WAY (ENCROACHMENT PERMIT) FROM THE CITY OF SCOTTSDALE. SUBMITTAL FOR THIS PERMIT SHALL INCLUDE A BARRICADE AND TRAFFIC CONTROL PLAN.
- PRIOR TO CONSTRUCTION, SCHEDULE A PRE-CONSTRUCTION MEETING WITH INSPECTION SERVICES BY CALLING 480-312-5750.
- PRIOR TO OR DURING THE ISSUANCE OF PERMITS, THE APPLICANT SHALL PAY THE FIRST YEAR RENT FOR THE ANTENNA SITE RIGHT-OF-WAY LICENSE AGREEMENT (ARLA) TO THE ONE STOP SHOP.

DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17

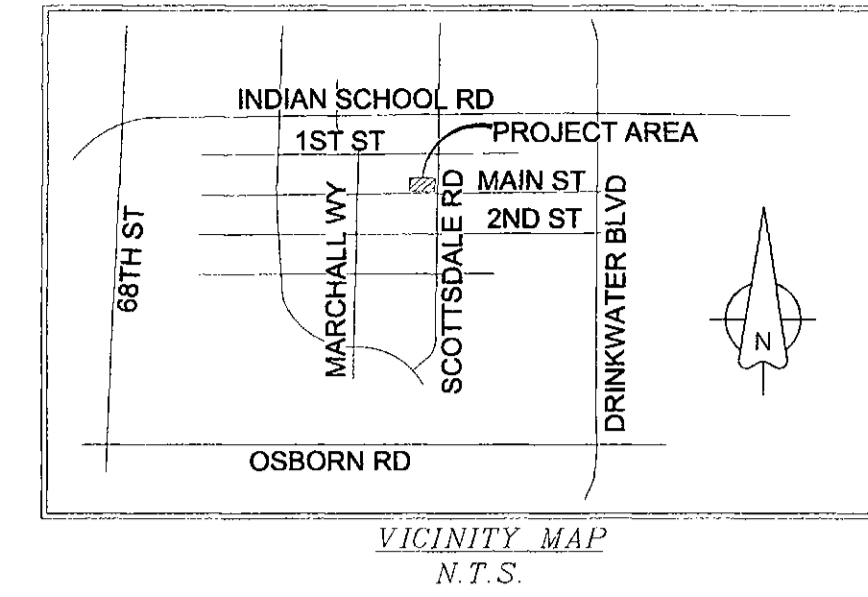
**SURVEYOR NOTES**

1. A TITLE REPORT WAS NOT PROVIDED AT THE TIME OF THE SURVEY.
2. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE.
3. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.
4. SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**PROJECT META DATA**

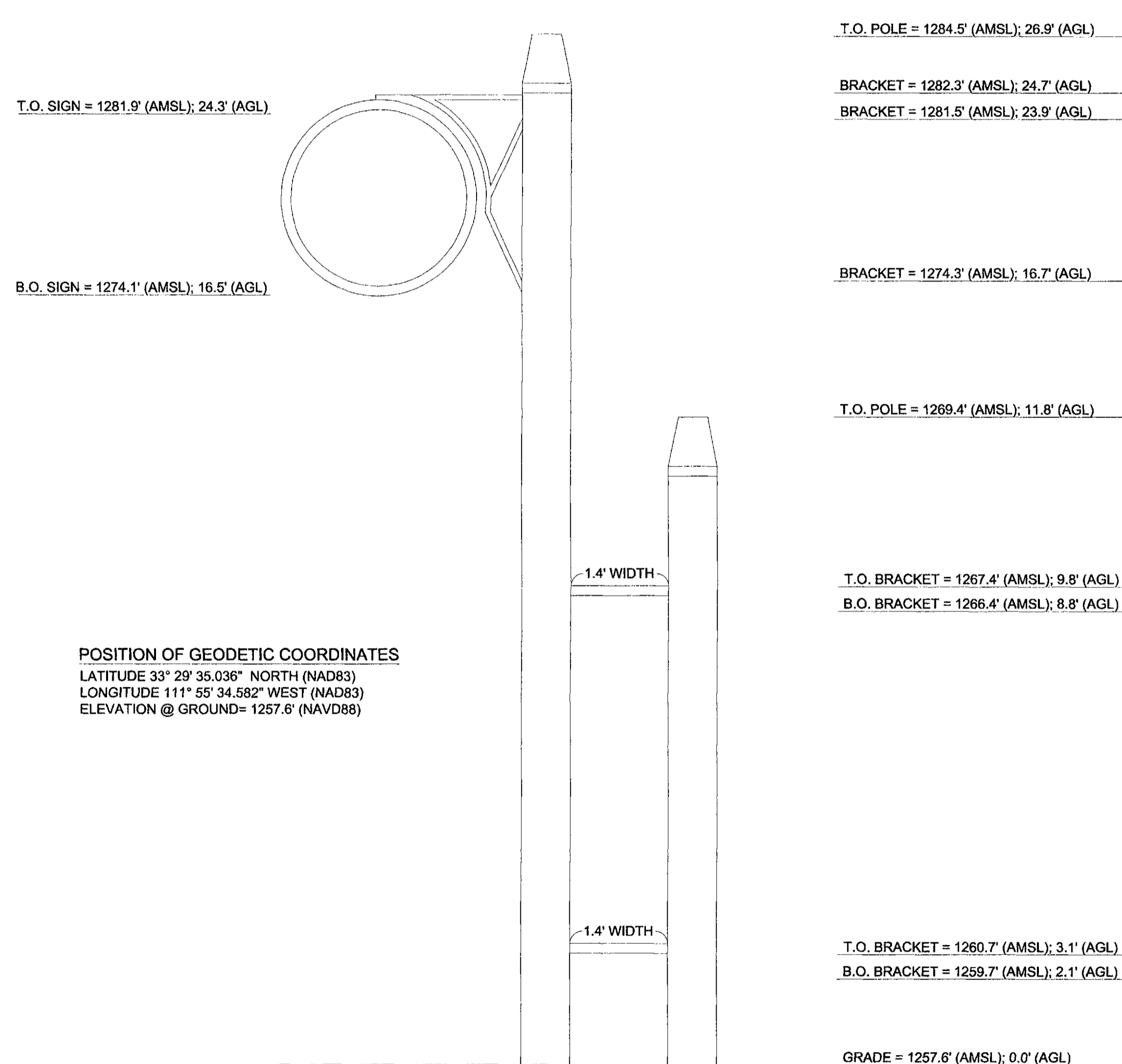
1. ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 09 SEPARATIONS CONSTRAINING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE.
2. BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE CENTRAL, DETERMINED BY GPS OBSERVATIONS.
3. FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 03/03/16.

**LESSOR'S LEGAL DESCRIPTION**  
CITY OF SCOTTSDALE RIGHT-OF-WAY

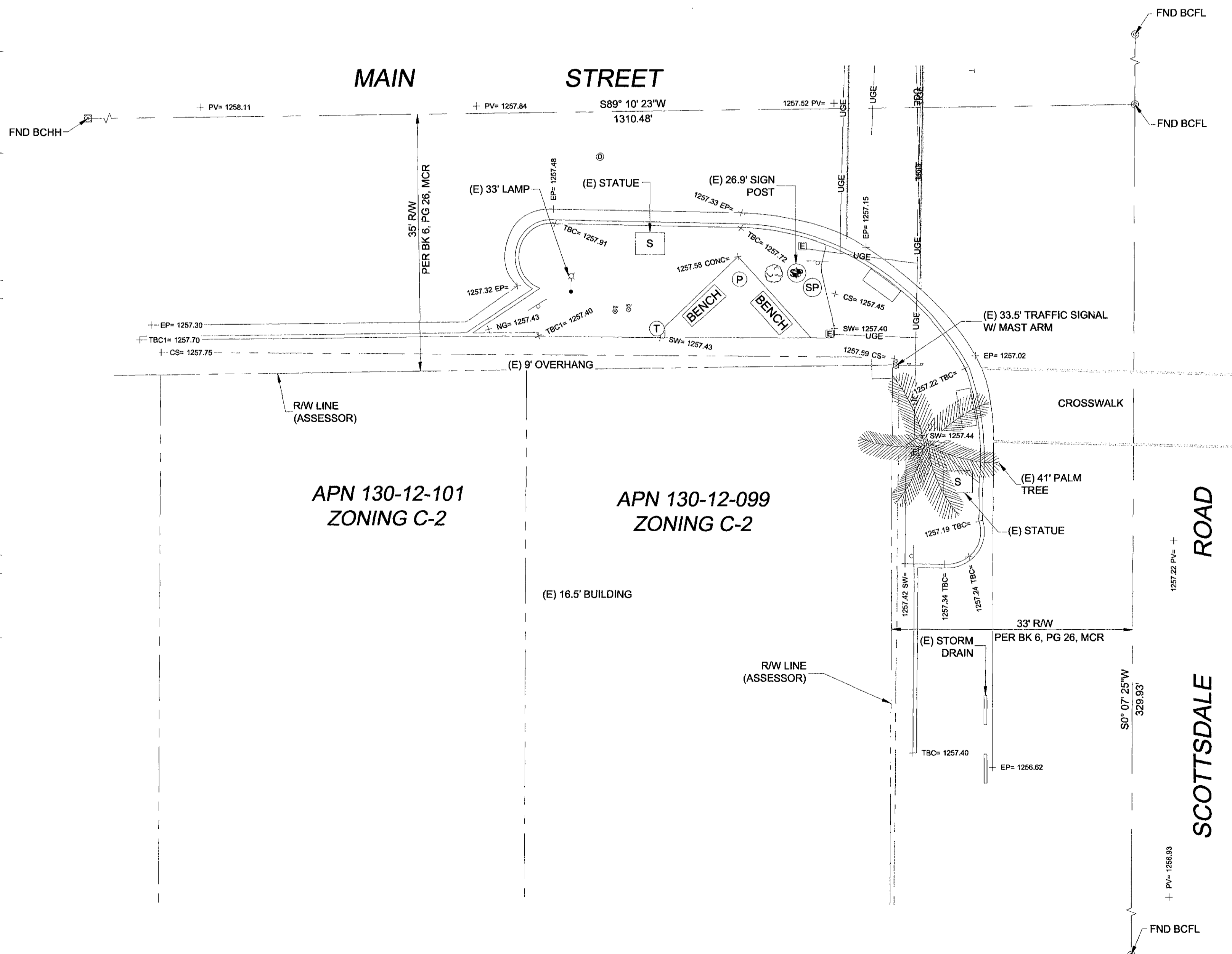
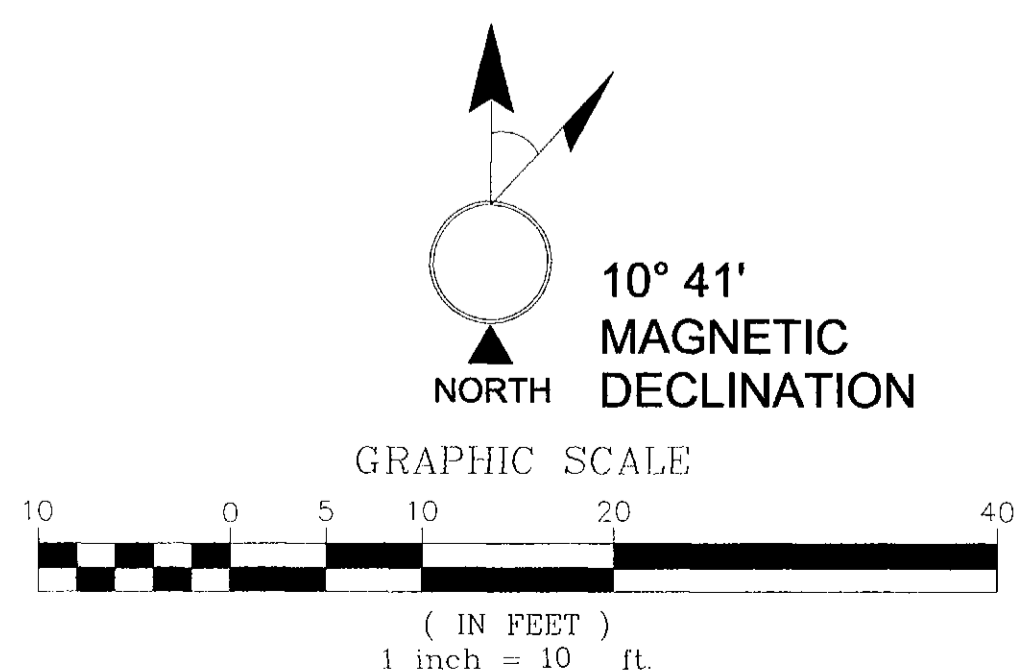


**LEGEND**

□ BRASS CAP IN HANDHOLE	⊕ FIRE HYDRANT
NG NATURAL GRADE	⊕ WATER VALVE
TBC TOP BACK OF CURB	⊕ STORM MANHOLE
R/W RIGHT OF WAY	⊕ CATCH BASIN
PV ASPHALT	⊕ DECIDUOUS TREE
SW SIDEWALK	⊕ SIGN
CMU CONCRETE MASONRY UNIT	⊕ BREAKLINE
CS CONCRETE	⊕ SCHEDULE B HEX
⊕ SPT ELEVATION	⊕ POSITION OF GEODETIC COORDINATES
FS FINISHED SURFACE	⊕ TRASH CAN
⊕ GAS VALVE	⊕ PLANTER
⊕ ELECTRIC MANHOLE	⊕ STATUE
⊕ ELECTRICAL PULL BOX	⊕ SIGN POST
⊕ SANITARY SEWER MANHOLE	⊕ RIGHT-OF-WAY
⊕ TRAFFIC SIGNAL WITH MAST	⊕ CENTERLINE
⊕ MISC. MANHOLE	⊕ U/G ELECTRIC LINE
⊕ PARKING METER	⊕ WATER LINE
⊕ STREET LIGHT W/ MAST ARM	
⊕ CABLE TV MANHOLE	
⊕ FIBER MANHOLE	
* CACTUS	



**POSITION OF GEODETIC COORDINATES**  
LATITUDE 33° 29' 35.036" NORTH (NAD83)  
LONGITUDE 111° 55' 34.582" WEST (NAD83)  
ELEVATION @ GROUND= 1257.6' (NAVD88)



**verizon**  
126 W. GEMINI DR.  
TEMPE, AZ 85283

**Young design corp**  
architecture / project management  
10245 E. Via Linda, Scottsdale, AZ 85258  
ph: 480 451 9609 fax: 480 451 9608  
e mail: corp@ydcoffice.com

FIELD BY: JMM  
DRAWN BY: JTJ  
CHECKED BY: RLF

REVISIONS		
NO.	DATE	DESCRIPTION
1	03/14/16	PRELIMINARY

**RLF CONSULTING**  
LAND SURVEY • MAPPING SOLUTIONS  
1241 N. STAGEM DR. • TEMPE, AZ 85283  
WWW.RLFCONSULTING.COM • 480-445-0100



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PROJECT No.  
**09006767**  
SITE NAME:  
**PHO\_ZUZU-VALLEYHO\_2\_SC**  
SITE ADDRESS:  
**SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251**

SHEET TITLE:  
**SURVEY DETAIL**

SHEET NO.  
**LS-1**

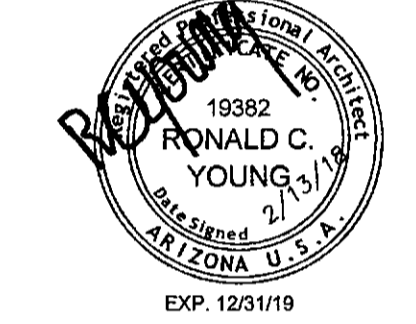


CLIENT  
**verizon**  
 126 W. GEMINI DR.  
 TEMPE, AZ 85283

INTERNAL REVIEW \_\_\_\_\_ DATE \_\_\_\_\_  
 CONSTRUCTION SIGNATURE \_\_\_\_\_  
 RF SIGNATURE \_\_\_\_\_  
 FACILITIES SIGNATURE \_\_\_\_\_  
 REAL ESTATE SIGNATURE \_\_\_\_\_

PLANS PREPARED BY  
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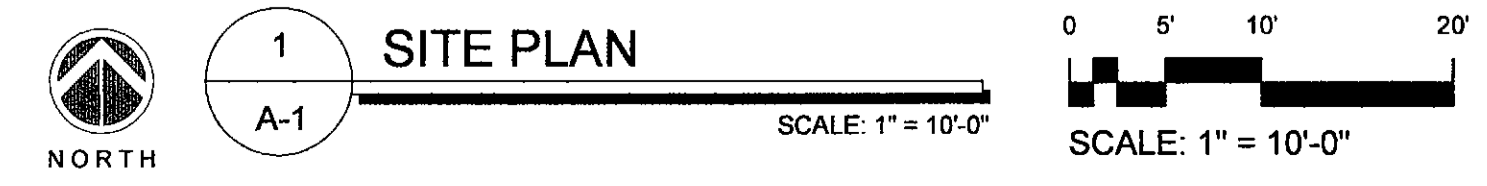
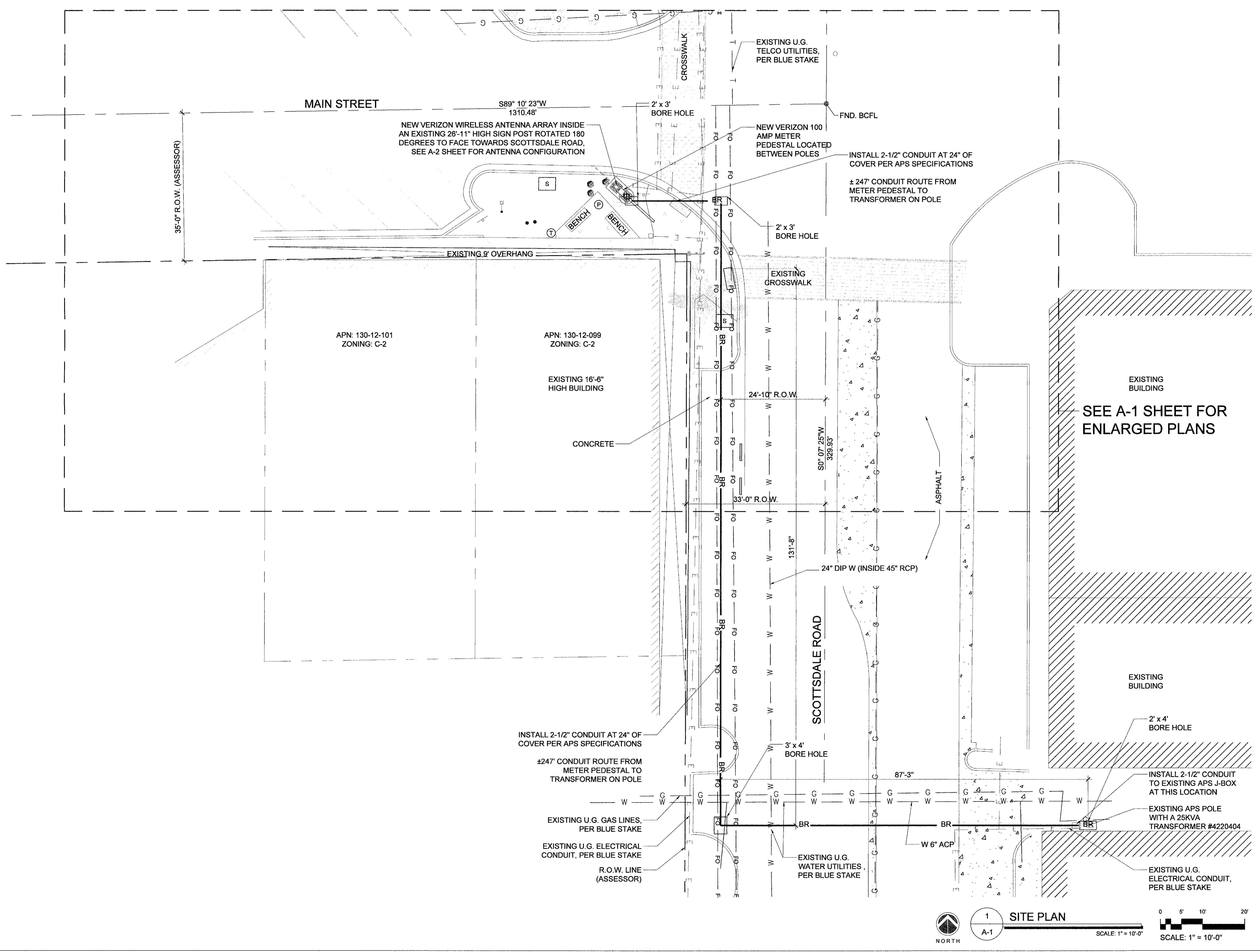
ARCHITECTS JOB NO.  
**YDC-6199**

PROJECT INFORMATION  
**PHO\_ZUZU-VALLEYHO\_2\_SC**  
 SCOTTSDALE RD & MAIN ST  
 SCOTTSDALE, AZ 85251

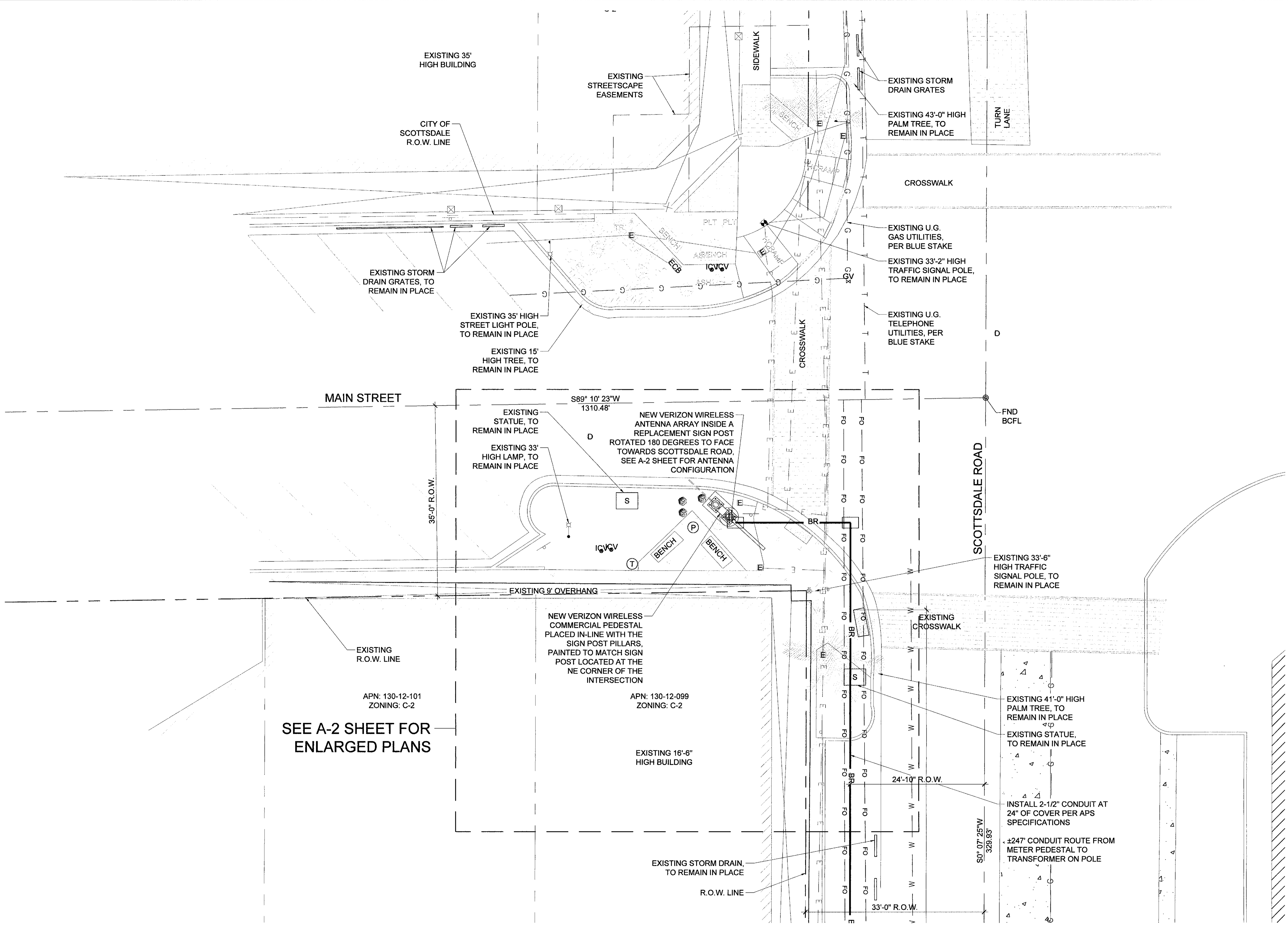
SHEET TITLE  
**OVERALL SITE PLAN**

JURISDICTION APPROVAL  
**APPROVED**  
**FINAL PLANS PLANNING**  
 2-27-17  
 DATE APPROVED BY  
 KN

SHEET NUMBER  
**A-1**



DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



SEE A-2 SHEET FOR ENLARGED PLANS

1 SITE PLAN  
A-1.1

SCALE: 1/8" = 1'-0"

CLIENT

**verizon**

126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
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RF SIGNATURE	
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REAL ESTATE SIGNATURE	

PLANS PREPARED BY

**YOUNG design corp**

architecture / project management  
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PROJECT INFORMATION

**PHO\_ZUZU-VALLEYHO\_2\_SC**

SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

SHEET TITLE

**SITE PLAN**

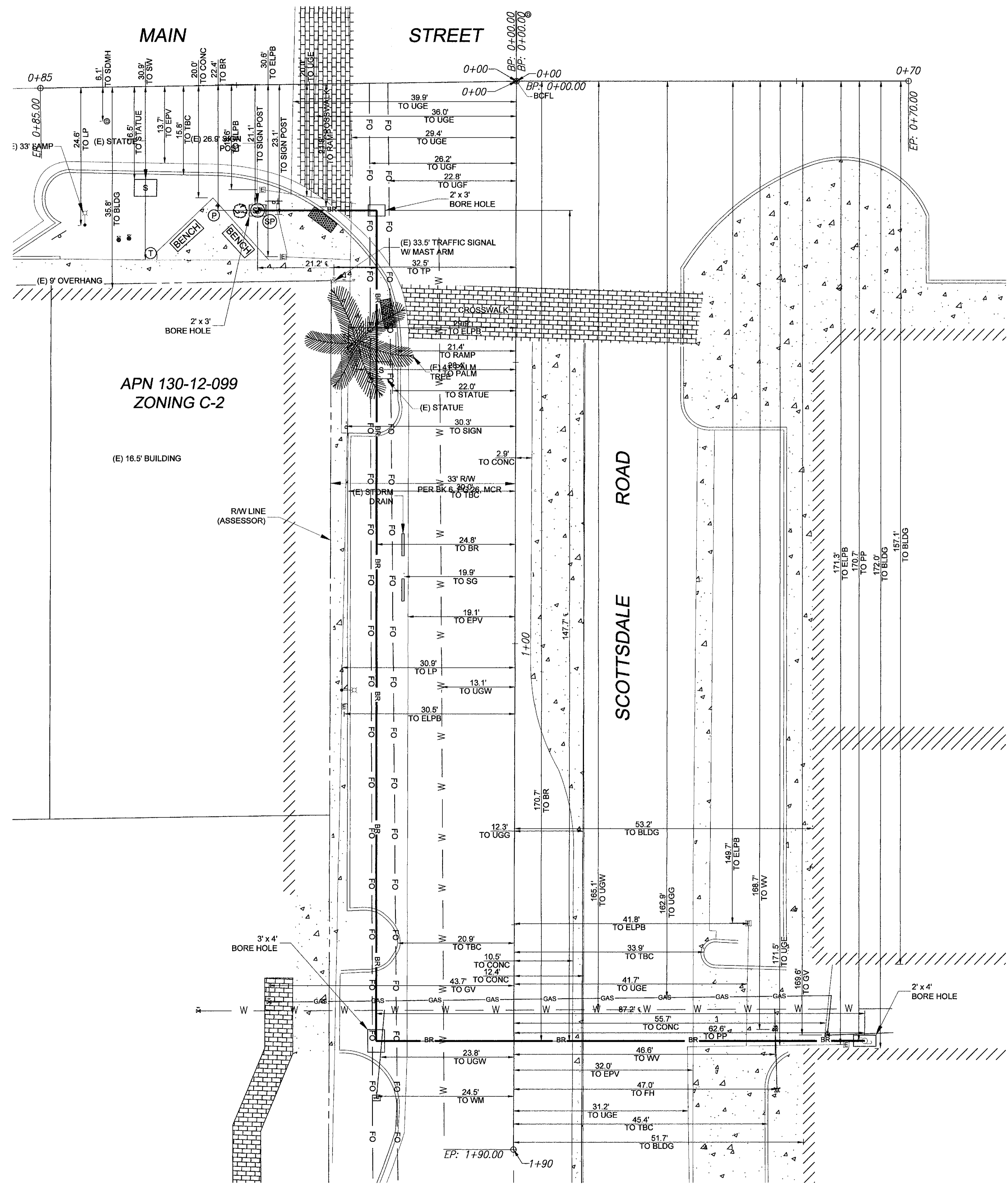
JURISDICTION APPROVAL

**APPROVED**  
FINAL PLANS PLANNING  
2-27-18  
APPROVED BY

SHEET NUMBER

**A-1.1**

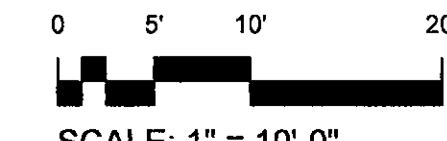
DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



1  
A-1.2

BORE ROUTE PLAN

SCALE: 1" = 10'-0"



CLIENT

**verizon**

126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

CONSTRUCTION SIGNATURE \_\_\_\_\_

RF SIGNATURE \_\_\_\_\_

FACILITIES SIGNATURE \_\_\_\_\_

REAL ESTATE SIGNATURE \_\_\_\_\_

PLANS PREPARED BY

**YOUNG design corp**

architecture / project management  
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16392  
RONALD C.  
YOUNG  
State of Arizona  
EXPIRES 12/31/19

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ARCHITECTS JOB NO. YDC-6199

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SCOTTSDALE, AZ 85251

SHEET TITLE

**BORE ROUTE PLAN**

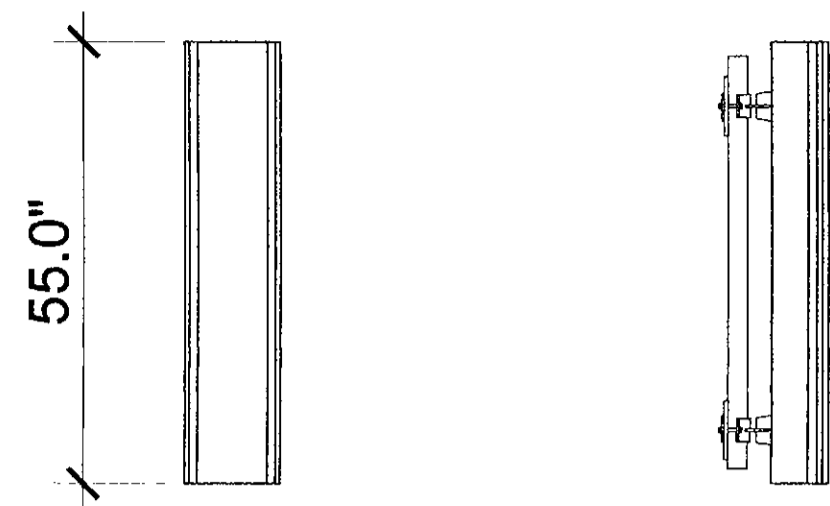
JURISDICTION APPROVAL

SHEET NUMBER

**A-1.2**

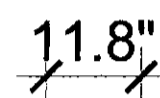
DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



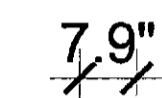


FRONT

SIDE



TOP



ANTENNA DETAIL

4

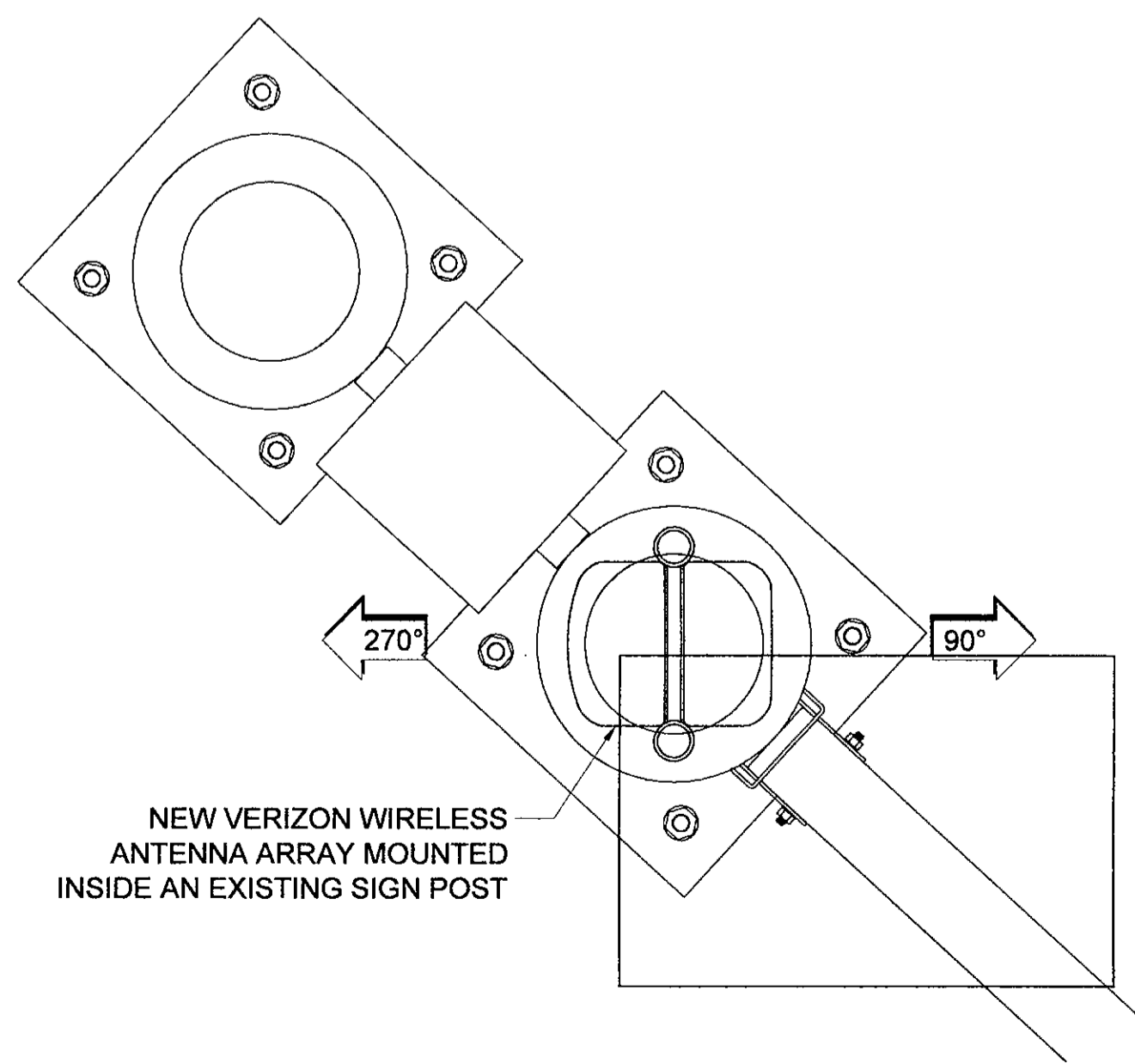
COAXIAL CABLE TABLE					
SECTOR	AZIMUTH	LENGTH	QTY.	SIZE	TYPE
ALPHA	90°	± 22'-0"	4	1/2"	T.B.D.
BETA	270°	± 22'-0"	4	1/2"	T.B.D.

NOTE:  
ALL AZIMUTHS SHOWN ARE RELATIVE TO TRUE NORTH,  
UNLESS NOTED OTHERWISE

\*IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY  
AZIMUTHS DEPICTED HEREIN WITH RF DEPARTMENT PRIOR  
TO INSTALLING ANTENNAS.

COAX CABLE INFORMATION

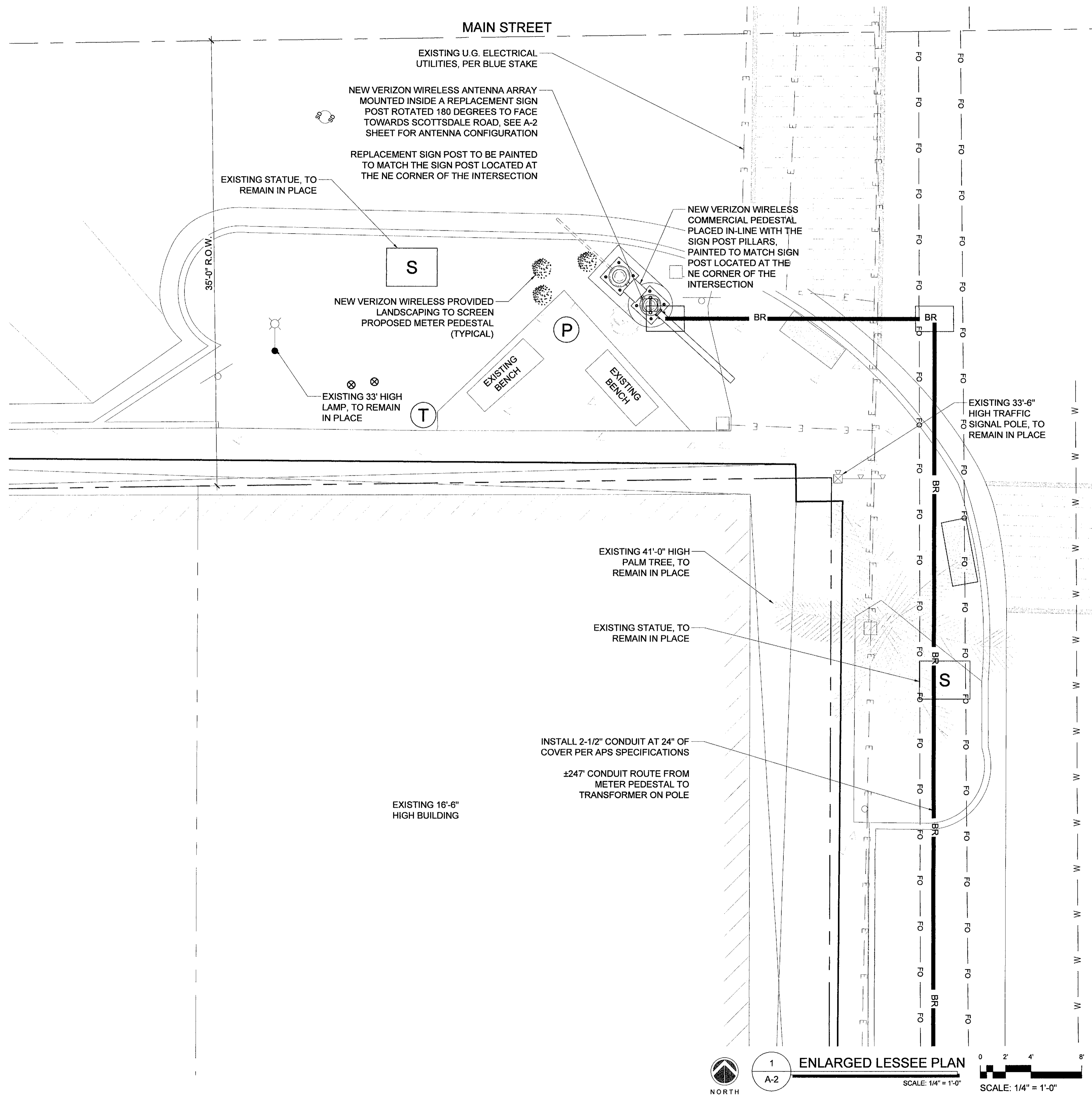
3



NEW VERIZON WIRELESS  
ANTENNA ARRAY MOUNTED  
INSIDE AN EXISTING SIGN POST

ANTENNA CONFIGURATION

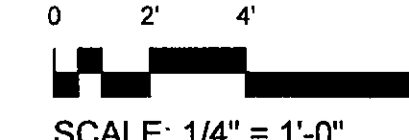
2



1  
A-2

ENLARGED LESSEE PLAN

SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"

CLIENT

**verizon**

126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

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RF SIGNATURE \_\_\_\_\_

FACILITIES SIGNATURE \_\_\_\_\_

REAL ESTATE SIGNATURE \_\_\_\_\_

PLANS PREPARED BY



architecture / project management  
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e mail: corporate@ydcoffice.com

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NO.	DATE	DESCRIPTION
0	10/10/2017	SUBMITTAL

ARCHITECTS JOB NO.  
YDC-6199

PROJECT INFORMATION

PHO\_ZUZU-VALLEYHO\_2\_SC  
SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

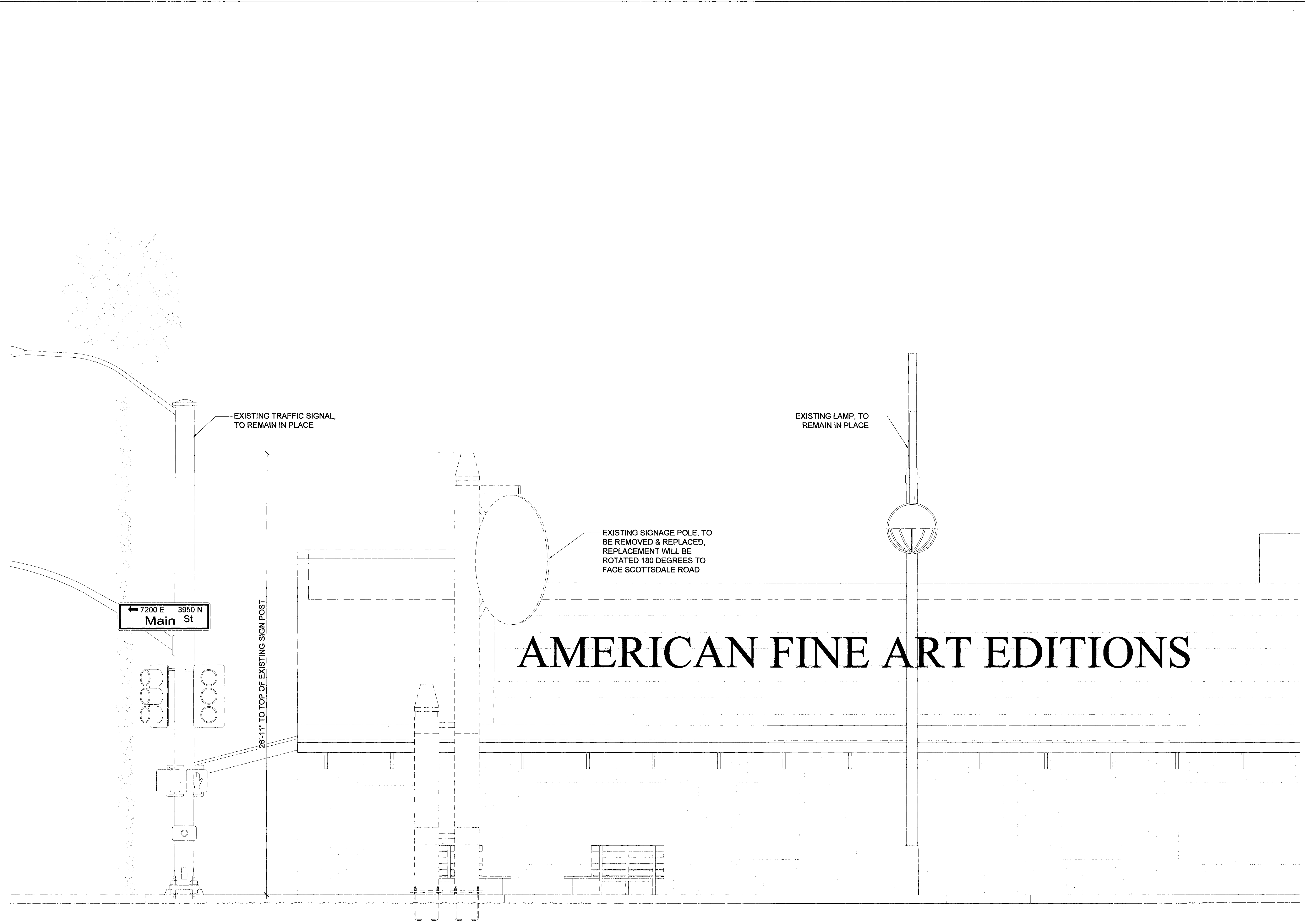
SHEET TITLE  
ENLARGED SITE PLAN  
SITE DETAILS

JURISDICTION APPROVAL

APPROVED  
FINAL PLANS PLANNING  
2-27-17  
DATE APPROVED BY

SHEET NUMBER  
A-2

DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



EXISTING TRAFFIC SIGNAL,  
TO REMAIN IN PLACE

EXISTING LAMP, TO  
REMAIN IN PLACE

EXISTING SIGNAGE POLE, TO  
BE REMOVED & REPLACED,  
REPLACEMENT WILL BE  
ROTATED 180 DEGREES TO  
FACE SCOTTSDALE ROAD

26'-11" TO TOP OF EXISTING SIGN POST

# AMERICAN FINE ART EDITIONS

1  
A-3  
EXISTING NORTH ELEVATION  
SCALE: 3/8" = 1'-0"

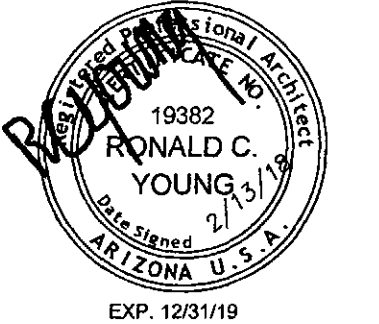
0 1'-4" 2'-8" 5'-4"  
SCALE: 3/8" = 1'-0"

CLIENT  
**verizon**  
126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY  
**YOUNG design corp**  
architecture / project management  
10245 E. Via Linda, Scottsdale, AZ 85258  
ph: 480 451 9609 fax: 480 451 9608  
e-mail: corporate@ydcoffice.com

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**YDC-6199**

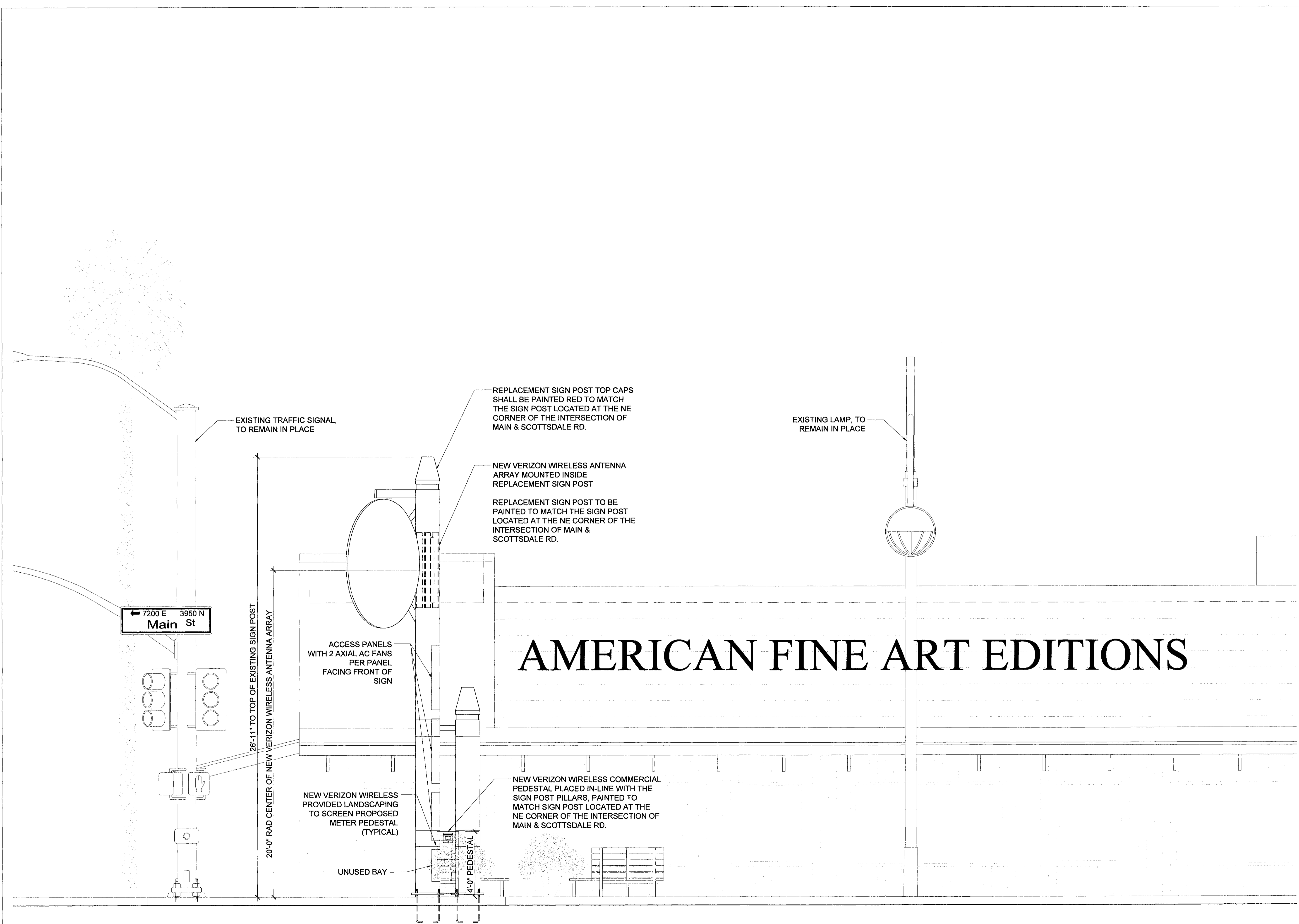
PROJECT INFORMATION  
**PHO\_ZUZU-VALLEYHO\_2\_SC**  
SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

SHEET TITLE  
**EXISTING ELEVATION**

JURISDICTION APPROVAL

SHEET NUMBER  
**A-3**

DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



EXISTING TRAFFIC SIGNAL, TO REMAIN IN PLACE

REPLACEMENT SIGN POST TOP CAPS SHALL BE PAINTED RED TO MATCH THE SIGN POST LOCATED AT THE NE CORNER OF THE INTERSECTION OF MAIN & SCOTTSDALE RD.

NEW VERIZON WIRELESS ANTENNA ARRAY MOUNTED INSIDE REPLACEMENT SIGN POST

REPLACEMENT SIGN POST TO BE PAINTED TO MATCH THE SIGN POST LOCATED AT THE NE CORNER OF THE INTERSECTION OF MAIN & SCOTTSDALE RD.

EXISTING LAMP, TO REMAIN IN PLACE

ACCESS PANELS WITH 2 AXIAL AC FANS PER PANEL FACING FRONT OF SIGN

26'-11" TO TOP OF EXISTING SIGN POST

20'-0" RAD CENTER OF NEW VERIZON WIRELESS ANTENNA ARRAY

NEW VERIZON WIRELESS COMMERCIAL PEDESTAL PLACED IN-LINE WITH THE SIGN POST PILLARS, PAINTED TO MATCH SIGN POST LOCATED AT THE NE CORNER OF THE INTERSECTION OF MAIN & SCOTTSDALE RD.

NEW VERIZON WIRELESS PROVIDED LANDSCAPING TO SCREEN PROPOSED METER PEDESTAL (TYPICAL)

UNUSED BAY

4'-0" PEDESTAL

# AMERICAN FINE ART EDITIONS

CLIENT

**verizon**

126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

CONSTRUCTION SIGNATURE \_\_\_\_\_

RF SIGNATURE \_\_\_\_\_

FACILITIES SIGNATURE \_\_\_\_\_

REAL ESTATE SIGNATURE \_\_\_\_\_

PLANS PREPARED BY

**Young design corp**

architecture / project management  
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19382  
RONALD C. YOUNG  
Professional Engineer  
STATE OF ARIZONA U.S.A.  
EXP. 12/31/19

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NO.	DATE	DESCRIPTION
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ARCHITECTS JOB NO. YDC-6199

PROJECT INFORMATION

PHO\_ZUZU-VALLEYHO\_2\_SC

SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

SHEET TITLE

**NEW ELEVATION**

JURISDICTION APPROVAL

**APPROVED**  
FINAL PLANS PLANNING  
2-27-18  
DATE APPROVED BY

SHEET NUMBER

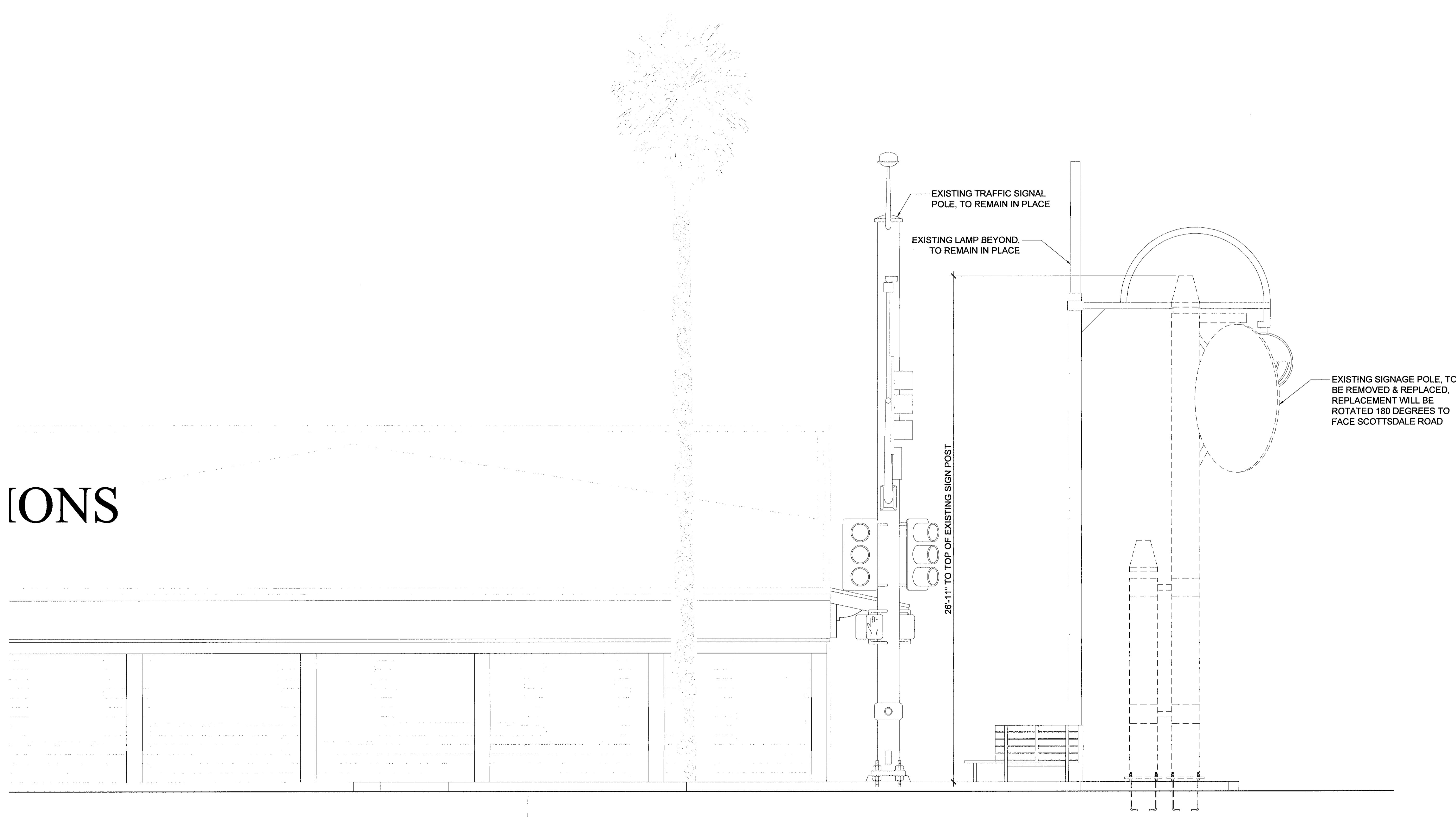
**A-4**



DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17



IONS



1 EXISTING EAST ELEVATION  
 A-5 SCALE: 3/8" = 1'-0" 0 1'-4" 2'-8" 5'-4" SCALE: 3/8" = 1'-0"

CLIENT

**verizon**  
 126 W. GEMINI DR.  
 TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
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PLANS PREPARED BY

**YOUNG design corp**

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0	10/10/2017	SUBMITTAL

ARCHITECTS JOB NO.  
**YDC-6199**

PROJECT INFORMATION

**PHO\_ZUZU-VALLEYHO\_2\_SC**  
 SCOTTSDALE RD & MAIN ST  
 SCOTTSDALE, AZ 85251

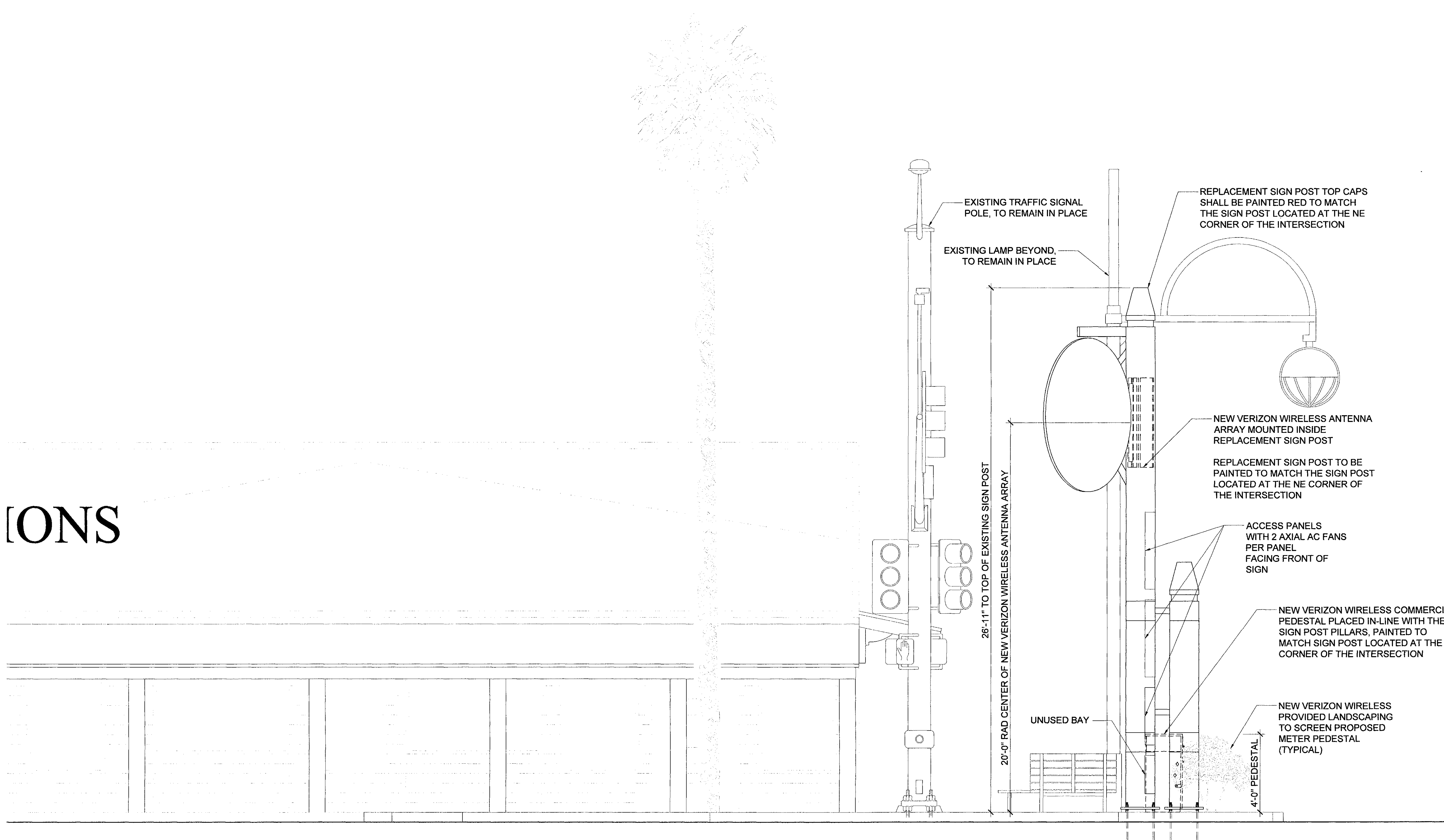
SHEET TITLE  
**EXISTING ELEVATION**

JURISDICTION APPROVAL

SHEET NUMBER  
**A-5**

DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17

[IONS



EXISTING TRAFFIC SIGNAL POLE, TO REMAIN IN PLACE

EXISTING LAMP BEYOND, TO REMAIN IN PLACE

REPLACEMENT SIGN POST TOP CAPS SHALL BE PAINTED RED TO MATCH THE SIGN POST LOCATED AT THE NE CORNER OF THE INTERSECTION

NEW VERIZON WIRELESS ANTENNA ARRAY MOUNTED INSIDE REPLACEMENT SIGN POST

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NEW VERIZON WIRELESS PROVIDED LANDSCAPING TO SCREEN PROPOSED METER PEDESTAL (TYPICAL)

26'-11" TO TOP OF EXISTING SIGN POST

20'-0" RAD CENTER OF NEW VERIZON WIRELESS ANTENNA ARRAY

UNUSED BAY

4'-0" PEDESTAL

1 NEW EAST ELEVATION  
A-6 SCALE: 3/8" = 1'-0"

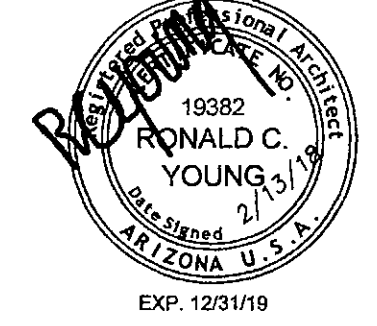
0 1'-4" 2'-8" 5'-4"  
SCALE: 3/8" = 1'-0"

CLIENT  
**verizon**  
126 W. GEMINI DR.  
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
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PLANS PREPARED BY  
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NO.	DATE	DESCRIPTION
0	10/10/2017	SUBMITTAL

ARCHITECTS JOB NO.  
YDC-6199

PROJECT INFORMATION  
**PHO\_ZUZU-VALLEYHO\_2\_SC**  
SCOTTSDALE RD & MAIN ST  
SCOTTSDALE, AZ 85251

SHEET TITLE  
**NEW ELEVATION**

JURISDICTION APPROVAL  
**APPROVED**  
FINAL PLANS PLANNING  
2-22-17 KN  
DATE APPROVED BY

SHEET NUMBER  
**A-6**

DEVELOPMENT REVIEW - 44-DR-2016 PLANNING REVIEW - 5696-17

**PROJECT INFORMATION**

Date: October 20, 2017  
 ISE Job No. 10704 By: AG  
 Customer: Larson Camouflage  
 Product: 27'-2" Mono Pole With FRP sign

Site ID: VZW PHO ZUZU-VALLEYHO\_2\_SC

Location: Scottsdale Rd & Main St  
 Scottsdale, AZ 85251

**DESIGN CRITERION:**

2015 IBC, 115 MPH Ultimate Wind Speed, Reducible per 1609.1.1  
 EIA/TIA-222-G (2009) 90 MPH Design Wind Speed (3-Sec Gust)  
 EXP C, Topo Class I, Tower Class II

**POLE SPECIFICATIONS**

Section Shape Round  
 Pipe Taper N/A IN/FT  
 Pole Material API 5LX GR 42  
 Base Plate A36  
 Anchor Bolts 1.25" x 44, F1554-36

Pole Section	Length (ft.)	Weight (kips)	Tkns. (in.)	Lap Splice (in.)	Diameter	
					Top (in.)	Bot (in.)
Stub	1.625	0.075	0.250	--	18.000	18.000
(2)HSS Mast	5.833	0.050	0.3125	--	2.5"x2.5"	2.5"x2.5"
Pole 1 (Tall)	17.000	0.807	0.250	--	18.000	18.000
Pole 2 (Short)	10.688	0.507	0.250	--	18.000	18.000
Base Plate		0.115	1.250	24" SQUARE	w/ 18.125" ID	

**EARTHQUAKE DESIGN DATA**

IMPORTANCE FACTOR (I): 1  
 OCCUPANCY CATEGORY: 1

S<sub>s</sub> = 0.184 S<sub>m</sub> = 0.196  
 S<sub>1</sub> = 0.060 S<sub>m1</sub> = 0.096

SEISMIC DESIGN CATEGORY: B  
 SITE CLASS: D  
 SEISMIC RESPONSE COEFFICIENT: 0.131  
 DESIGN BASE SHEAR: KIPS  
 RESPONSE MODIFICATION FACTOR (R): 1.50

ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE PROCEDURE

**DESIGN LOADS (Unfactored Base Wind Reactions)**

Moment = 41.959 Ft-Kips  
 Shear = 2.234 Kips  
 Axial = 1.915 Kips

**DEFLECTIONS**

Elev. (ft.)	60 MPH Wind		90 MPH Wind	
	Lateral (in.)	Sway (°)	Lateral (in.)	Sway (°)
Top	.772	.478	3.109	1.925

**APPURTENANCES**

Elevation (ft.)	(Qty)	Description
22'-8"	(1)	FRP SIGN & Stand-off Mount
20'-6"	(2)	Antenna 11.8"x7.9"x55"
17'-7" to 23'-5"	(1)	18"Ø Canister



**PHO\_ZUZU-VALLEYHO\_2\_SC  
 (SMALL CELL)**

SCOTTSDALE RD & MAIN ST., Scottsdale, AZ 85251

**GENERAL NOTES:**

- ALL STEEL SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM A36, UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS OR BELOW.
- ALL ROUND STEEL PIPE SHALL MEET THE REQUIREMENTS OF ASTM A53 TYPE E OR S GRADE B (35 KSI YIELD POINT MATERIAL) OR ASTM A501 (36 KSI YIELD POINT MATERIAL).
- ALL TUBE STEEL (SQUARE OR RECTANGULAR) SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B (46 KSI YIELD POINT MATERIAL).
- ALL POLYGON FORMED STEEL SHAFTS SHALL MEET THE REQUIREMENTS OF ASTM A572 GRADE 65 (65 KSI YIELD POINT MATERIAL).
- ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY AWS 01.1 CODE. ALL WELD ELECTRODES OR WIRE SHALL AT A MINIMUM CONFORM TO E70 ELECTRODES (70 KSI YIELD).
- ALL STEEL SHAPES AND PLATES SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A123. ALL STEEL NUTS AND BOLTS AND ASSOCIATED HARDWARE SHALL BE HOT-DIPPED ACCORDING TO ASTM A153.
- WIND TESTING OF PINE TREE BRANCHES HAS BEEN COMPLETED BY THE SUPPLIER OF THE BRANCHES, LARSON CAMOUFLAGE. LARSON CAMOUFLAGE HAS VERIFIED THE STRENGTH OF THE BRANCHES THROUGH FULL SCALE WIND TESTING. THE WIND AREA USED IN THE CALCULATIONS IS BASED ON THE WIND TEST DATA. THE CALCULATION ACCOUNT FOR PINE TREE BRANCHES ATTACHED AT THE TOP OF THE MONOPOLE. ISE INC. HAS REVIEWED AND APPROVED THE WIND TEST METHODS.
- THE MAIN MONOPOLE STRUCTURE SHALL BE FABRICATED BY A JURISDICTION CERTIFIED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.
- SPECIAL INSPECTION SHALL BE PERFORMED ACCORDING TO SECTION 1704 OF THE 2015 IBC REFER TO TABLE "SUMMARY OF SPECIAL INSPECTION" ON THIS SHEET.
- IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY (OR THE INSPECTING GEOTECHNICAL ENGINEER) AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. PER THE 2015 IBC ANY WORK THAT REQUIRES SPECIAL INSPECTION THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- THE LIST OF SPECIAL INSPECTIONS IS IN ADDITION TO INSPECTIONS REQUIRED BY SECTION 110 OF THE 2015 IBC. SPECIAL INSPECTION IS NOT A SUBSTITUTION FOR INSPECTION BY A CITY INSPECTOR.
- THE SPECIAL INSPECTOR SHALL BE APPROVED BY THE LOCAL JURISDICTION TO PERFORM THE TYPES OF INSPECTION REQUIRED.
- CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
- ANY SUPPORT SERVICE PERFORMED BY THE ENGINEER OF RECORD DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES, WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER OF RECORD ARE ONLY FOR THE PURPOSE OF ASSISTING IN THE QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THIS SUPPORT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- THE ANTENNA MOUNT SHALL BE FABRICATED BY LARSON CAMOUFLAGE, LLC. OR AN APPROVED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.

**FOUNDATION NOTES:**

- THE GEOTECHNICAL ENGINEER (OR THE APPROPRIATE INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO PLACING REINFORCING STEEL OR FORMS. THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSE.
- THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION. REFER TO THE GEOTECHNICAL REPORT FOR RECOMMENDATIONS.
- THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.
- FOUNDATION DESIGN PER GEOTECHNICAL REPORT:  
 IBC 2012 Per Table 1806.2, Material Class 5  
 Allowable Soil Bearing Pressure 1500 psf.
- ALL FOUNDATION CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F<sub>c</sub> = 4000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE DESIGNED BY AN APPROVED LABORATORY. CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318. "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION. CEMENT SHALL BE TYPE III, CONFORMING TO ASTM C-150. ALL AGGREGATE USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. MAXIMUM AGGREGATE SIZE TO BE 1" 1/2". SLUMP 4" - 6".
- CAISSON FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", LATEST EDITION. MAT/PIER FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 318 LATEST EDITION. CONCRETE CYLINDERS SHALL BE MADE AND TESTED. A MINIMUM OF ONE (1) SET SHALL BE TAKEN FROM CONCRETE IN FOUNDATION. EACH SET SHALL CONSIST OF FOUR (4) CYLINDERS. ONE SHALL BE TESTED AT (7) DAYS, TWO SHALL BE TESTED AT TWENTY EIGHT (28) DAYS AND THE LAST CYLINDER SHALL BE A HOLD. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM STANDARDS C172, C31 AND C39.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL BARS SHALL BE GRADE 60, AND TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. THE PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION, UNLESS OTHERWISE DETAILED ON THIS SHEET.
- ESTIMATED CONCRETE VOLUME =  
 PIER: 3.5 CY  
 MAT: 1.0 CY
- THE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS:  
 MOMENT = 67.273 FT-KIPS, SHEAR = 3.575 KIPS, AXIAL = 2.298 KIPS
- SPECIAL INSPECTION REQUIRED PER TABLE "SUMMARY OF SPECIAL INSPECTION"

**ERECTION NOTES:**

- ALL ANTENNA COAXIAL CABLES SHALL BE RUN INSIDE THE MONOPOLE SHAFT.
- THE CONTRACTOR SHALL INSTALL THE ANTENNA AND MOUNT AS REQUIRED BY THE OWNER.
- ALL ANCHOR BOLT NUTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.
- ALL GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED UP WITH TWO COATS OF A COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.
- THE ANCHOR BOLT TEMPLATES AND BASE PLATE WILL TYPICALLY HAVE AN AZIMUTH WELDED OR A NOTCH INDICATING THE CORRECT ORIENTATION OF THE ANCHOR BOLTS. THIS IS NECESSARY TO PROPERLY ORIENT THE MONOPOLE EXIT PORTS.
- SLIP JOINT IS A FRICTION CONNECTION THAT WILL TRANSFER DESIGN FORCES WHEN THE SPECIFIED OVERLAP IS ACHIEVED. ASSEMBLY CONTRACTOR SHALL BE EXPERIENCED AND FAMILIAR WITH TAPERED POLE ASSEMBLY. CONTRACTOR SHALL CONSPICUOUSLY MARK THE LOWER POLE SECTION FOR THE MAXIMUM DESIGN AND MINIMUM OVERLAP DISTANCES. CONTRACTOR SHALL SLIDE SECTIONS TOGETHER AND APPLY FORCES THROUGH JACKING OR END RAM TO ACHIEVE THE DESIGN OVERLAP.
- ALL SLIP SPLICES SHALL BE JACKED TO WITHIN THE SLIP SPLICE DESIGN CRITERIA AS SHOWN ON THESE DRAWINGS. IF THE DESIGN SPLICE CANNOT BE ATTAINED ISE INC. SHALL BE CONTACTED.
- ALL A36 THREADED ROD AND U-BOLTS SHALL BE TIGHTENED TO AISC SNUG REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXIST WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. A36 NUTS AND BOLTS TIGHTENING DO NOT REQUIRE SPECIAL INSPECTION.
- ANTENNA MOUNT SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO A SPECIFIED CLIMBING POINT.

**SUMMARY OF SPECIAL INSPECTIONS**

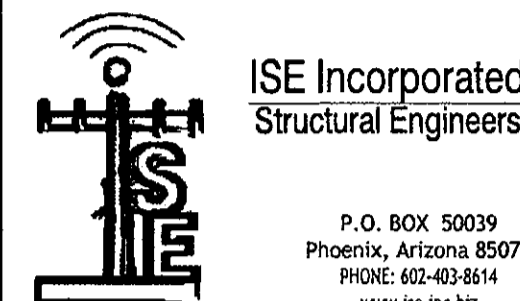
NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS, ETC	CONTINUOUS / PERIODIC
1).	FOUNDATION CONSTRUCTION:	
A.	- GEOTECHNICAL ENGINEER OF RECORD MAY SERVE AS THE SPECIAL INSPECTOR FOR THE FOUNDATION CONSTRUCTION.	
B.	- SHALL VERIFY THE DIAMETER, DEPTH AND QUALITY OF EXCAVATION PRIOR TO THE CONCRETE PLACEMENT.	PERIODIC
C.	- SHALL VERIFY THE ON SITE SOILS ARE AS DETERMINED IN THE SOILS REPORT.	PERIODIC
2).	CAST IN PLACE CONCRETE (FOUNDATION):	
A.	- REINFORCING CAGE SHALL BE INSPECTED TO ENSURE THAT THE PROPER GEOMETRY, SIZE, LENGTH, QUANTITY AND GRADE MATERIAL ARE USED.	PERIODIC
B.	- ALL CONCRETE SHALL BE AS SPECIFIED BY ACI-318, LATEST EDITION TO ENSURE THE COMPRESSIVE STRENGTH IS ATTAINED AS DESCRIBED IN THE FOUNDATION NOTES.	
C.	- CONTINUOUS INSPECTION IS REQUIRED DURING THE CONCRETE PLACEMENT.	CONTINUOUS
3).	ANCHOR BOLTS INSTALLED IN CONCRETE:	
	- PLACEMENT SHALL BE ORIENTED ON PROPER BOLT CIRCLE AS SHOWN ON THE STRUCTURAL PLANS, WITH TOP AND BOTTOM TEMPLATES INSTALLED.	PERIODIC
	- SHALL BE PLUMB.	PERIODIC
	- SHALL HAVE A MINIMUM EMBEDMENT OF 6'-0" INTO FOUNDATION (12" MAXIMUM PROJECTION).	PERIODIC
	- SHALL BE TIGHTENED TO SNUG TIGHT CONDITION PER AISC STEEL MANUAL OF STEEL CONSTRUCTION.	PERIODIC

SHEET INDEX	
PF1.0	PRODUCT INFORMATION & NOTES
PF1.1	PRODUCT INFORMATION & NOTES
PF2.0	POLE DETAIL & FOUNDATION DETAIL(S)
PF3.0	DETAILS
PF4.0	POLE DETAILS
PF4.1	POLE EQUIPMENT BASE DETAILS
PF4.2	POLE EQUIPMENT BASE DETAILS
PF4.3	POLE EQUIPMENT BASE DETAILS
PF5.0	POLE DETAILS AND ANCHOR BOLT TEMPLATE
PF6.0	CANISTER DETAILS
PF7.0	FRP DETAILS
PF8.0	FRP SIGN DETAILS & METAL TOPPER



1501 South Euclid Avenue  
 Tucson, AZ 85713  
 (520) 294-3900  
 www.larsoncamo.com

LARSON JOB #: S16091

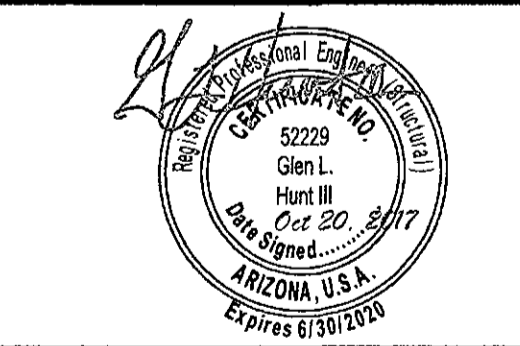


P.O. BOX 50039  
 Phoenix, Arizona 85076  
 PHONE: 602-403-8814  
 www.ise-inc.biz

ISE JOB #: 10704

**PHO\_ZUZU-VALLEYHO\_2\_SC  
 (SMALL CELL)**  
**PRODUCT INFORMATION & NOTES**  
 SCOTTSDALE RD & MAIN ST., Scottsdale, AZ 85251

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PROGRESS LOG		
9	10/20/17	Code Update MG
8	09/18/17	Client Changes MG
7	01.31.17	Client Comments MG
6	11.28.26	Client Comments MG
5	11.23.26	Added Milbanks Pedestal MG
4	6/22/16	Vent Cover Change AG

SHEET NUMBER	PROGRESS
PF1.0	9

DRAWING DATE  
 October 20, 2017



**FIBERGLASS REINFORCED PLASTIC (FRP) SHAPES:**

1. ALL FRP SHAPES AND PLATE SHALL CONFORM TO STRONGWELL EXTREN 500/525 SERIES.
2. APPLY RESIN ADHESIVE TO ALL FRP MATING SURFACES PRIOR TO BOLTING.
3. STRONGWELL FIBREBOLTS AND NUTS OR EQUAL.
4. ALL CUT EDGES AND HOLES SHALL BE SEALED WITH A RESIN COMPATIBLE WITH THE RESIN MATRIX USED IN THE STRUCTURAL SHAPE.
5. THE FABRICATOR AND CONTRACTOR SHALL EXERCISE PRECAUTIONS NECESSARY TO PROTECT THE FIBERGLASS PULTRUDED STRUCTURAL SHAPES FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
6. STRUCTURAL SHAPES SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DESIGN DRAWINGS.
7. FIBERBOLTS BOLTS AND NUTS SHALL BE TIGHTENED TO AND LOCKED WITH EPOXY AS FOLLOWS:
 

1/2" DIAMETER NUTS	8 FT-LBS TORQUE
5/8" DIAMETER NUTS	16 FT-LBS TORQUE
3/4" DIAMETER NUTS	24 FT-LBS TORQUE

**FIBERGLASS PANEL NOTES:**

FABRICATE PANELS TO FIT PER DIMENSIONS SHOWN IN PLAN. PANELS TO BE MINIMUM 1/4" THICKNESS.

1. PANELS ARE TO BE FABRICATED IN A CONTIGUOUS LAYUP PER PLANS USING RF TRANSPARENT MATERIALS.
2. ARCHITECT SHALL SPECIFY ANY REQUIRED FINISHES OR TREATMENTS TO ACHIEVE DESIRED APPEARANCE.
3. FABRICATOR SHALL USE A GLASS-RESIN RATIO OF 35% ± 3% REINFORCEMENT BY WEIGHT.
4. EACH SKIN SHALL BE FABRICATED WITH GENERAL PURPOSE RESIN OR POLYESTER VINYL RESIN WHERE REQUIRED FOR FIRE TREATMENT, CHOPPED STRAND MAT.
5. CORNER FLANGES MAY BE FASTENED WITH 5/16" NON-METALLIC THREADED ROD AND NUTS. STRONGWELL FIBREBOLT STUDS AND NUTS OR EQUIVALENT. A TORQUE WRENCH MUST BE USED TO TIGHTEN FASTENERS TO A MAXIMUM 16 FT-LBS.
6. FRP PANELS AND SHAPES SHALL BE COATED WITH A FLAT GEL-COAT FINISH TO PROVIDE ULTRAVIOLET PROTECTION.
7. ALL CUT AND DRILLED EDGES SHALL BE COATED WITH RESIN.
8. FABRICATOR AND INSTALLER SHALL TEST FIT ALL PANELS PRIOR TO FINAL ASSEMBLY/INSTALLATION TO ASSURE SQUARENESS AND CORNER FITS.

**STRUCTURAL STEEL:**

1. ALL STRUCTURAL STEEL CODE CHECKS BASED ON THE AISC, 14TH EDITION PER THE ASCE 7 STANDARD
2. ALL STEEL PIPE TO BE PER API 5LX GR 42.
3. ALL STEEL (HSS) TO BE PER ASTM A500 GR. B (46 KSI), U.N.O
4. ALL OTHER STRUCTURAL STEEL SHAPES & PLATES SHALL BE PER ASTM A36 (36 KSI), U.N.O.
5. ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE ASTM A325N, U.N.O.
6. ALL BOLTED CONNECTIONS SHALL BE TIGHTENED TO "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
7. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1
8. ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE WITH THE ASTM A123 AND ASTM A153 STANDARDS, U.N.O.

**CONNECTION PROCEDURE NOTES:**

ADHESIVE: WELD-ON 45 OR 3M 540  
PER MANUFACTURES SPECIFICATIONS & RECOMMENDATIONS

**STRONGWELL**

**CONNECTIONS**

**PROCEDURE FOR MAKING STRUCTURAL EPOXY JOINTS**

**Materials Used**

Strongwell epoxy adhesive base  
Strongwell epoxy adhesive hardener  
Small wax coated paper cup for mixing  
Clean wooden or FRP stick for mixing  
120 grit sandpaper  
Clamps for holding epoxy joints during cure  
Clean cloth

**Surface Preparation**

- 1) Sand mating surfaces with 120 grit sandpaper until the surface gloss has been removed. The surfacing veil must be ground off to expose the glass reinforcement. Sand blasting equipment can also be used.
- 2) Remove all dust with a clean cloth; air blasting equipment may also be used. Avoid recontamination of the surface from handling.

**Mixing of Epoxy**

Mix equal volume portions of the base and hardener in a small wax coated paper cup with a clean stick until a uniform gray color is attained and all marbled appearance is gone.

**NOTE:** Other adhesive systems compatible with fiberglass can be utilized and the manufacturer's mixing instructions for these systems should be followed.

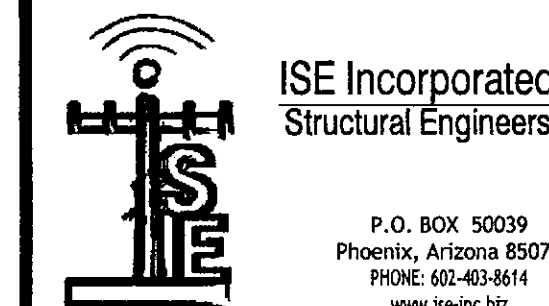
**Application and Cure**

- 1) Apply the mixed epoxy uniformly to all surfaces to be joined. A thin application is often more beneficial than a thick application.
- 2) Avoid introducing moisture into the joint.
- 3) Join the surfaces to be bonded. The pot life at 77°F for a 3 oz. mixture of equal volumes of base and hardener is 2.5 hours.
- 4) Secure the joint with clamps (or rivets or bolts) and allow 24 hours for a full cure. The assembly can often be handled with reasonable care in less than 8 hours. The structure should not be required to support its design load until at least 48 hours (at 70°F) after bonding. Lower temperatures require a longer cure.
- 5) After securing the joint, wipe away excess epoxy.



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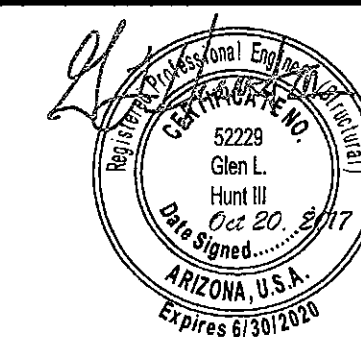
ISE JOB #: 10704

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(SMALL CELL)

PRODUCT INFORMATION & NOTES

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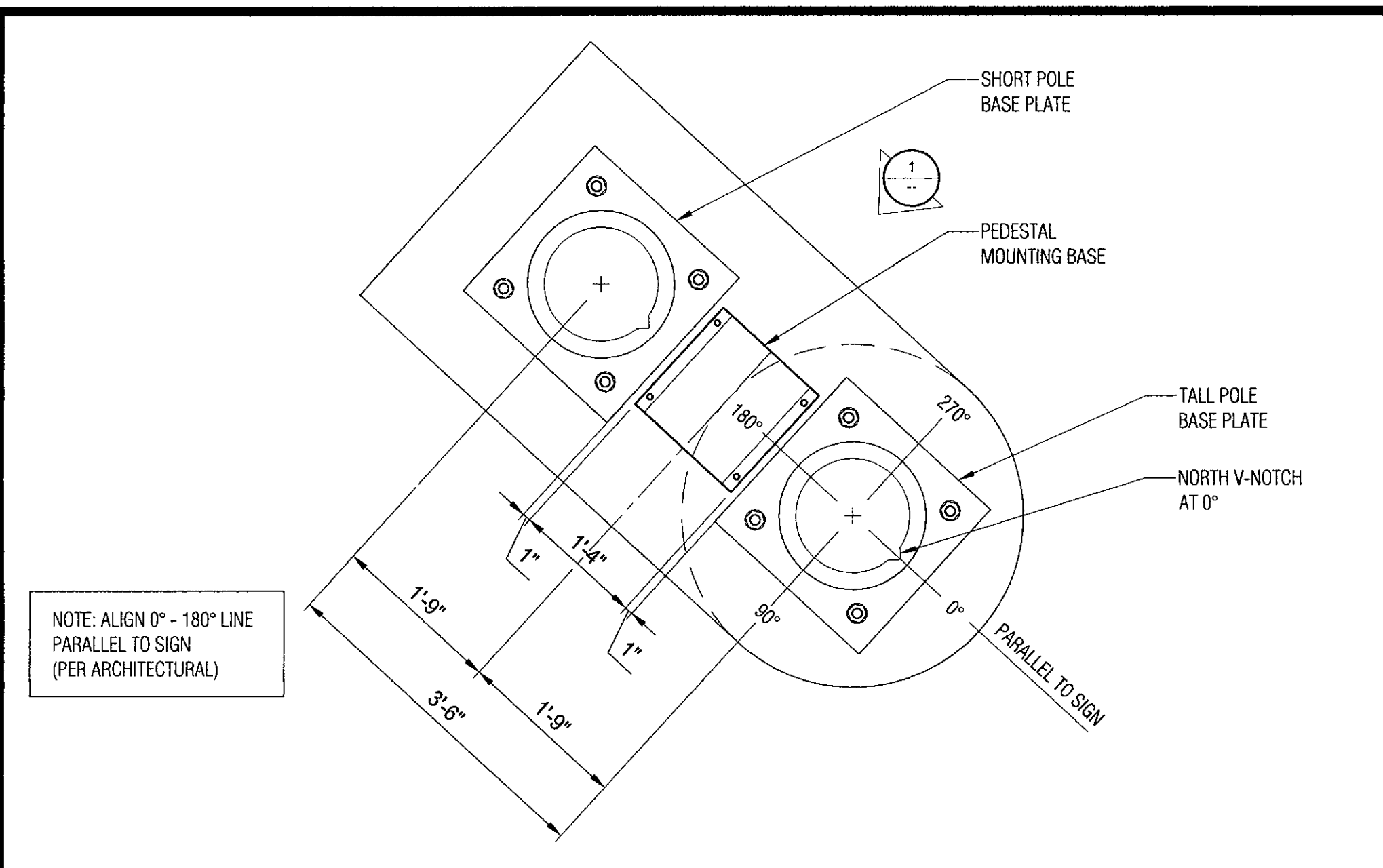
**PROGRESS LOG**

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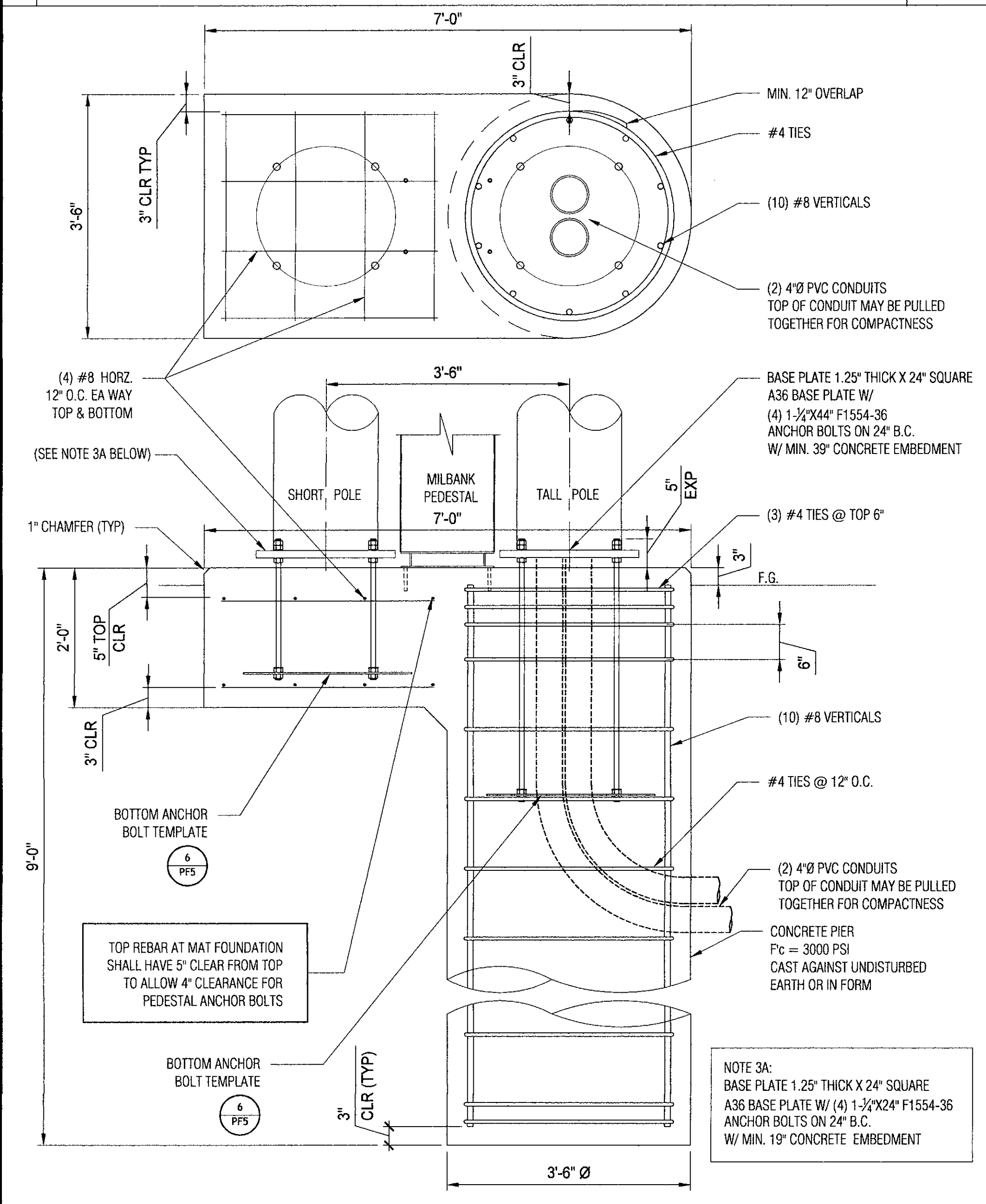
SHEET NUMBER      PROGRESS

PF1.1      9

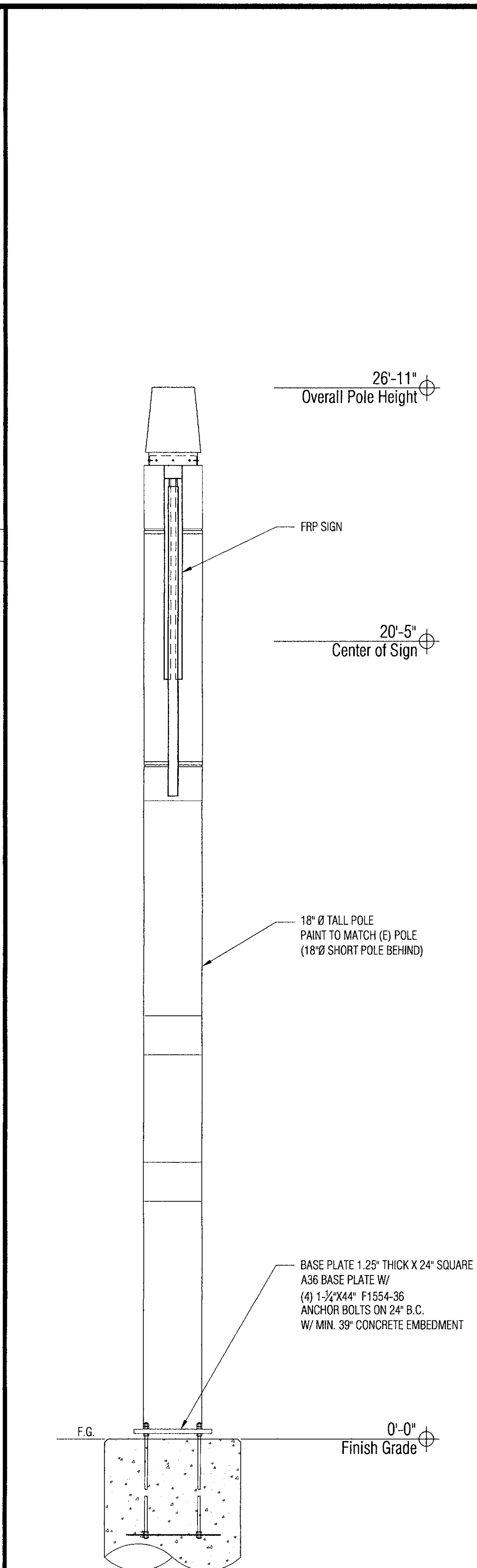
DRAWING DATE  
October 20, 2017



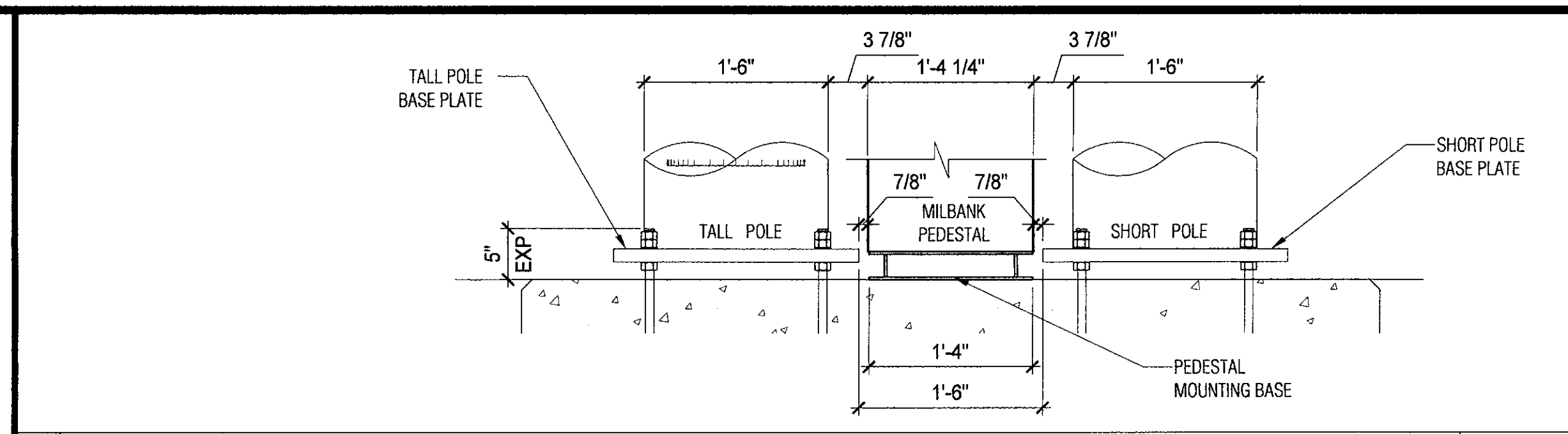
4 ANCHOR BOLT ORIENTATION SCALE: N.T.S.



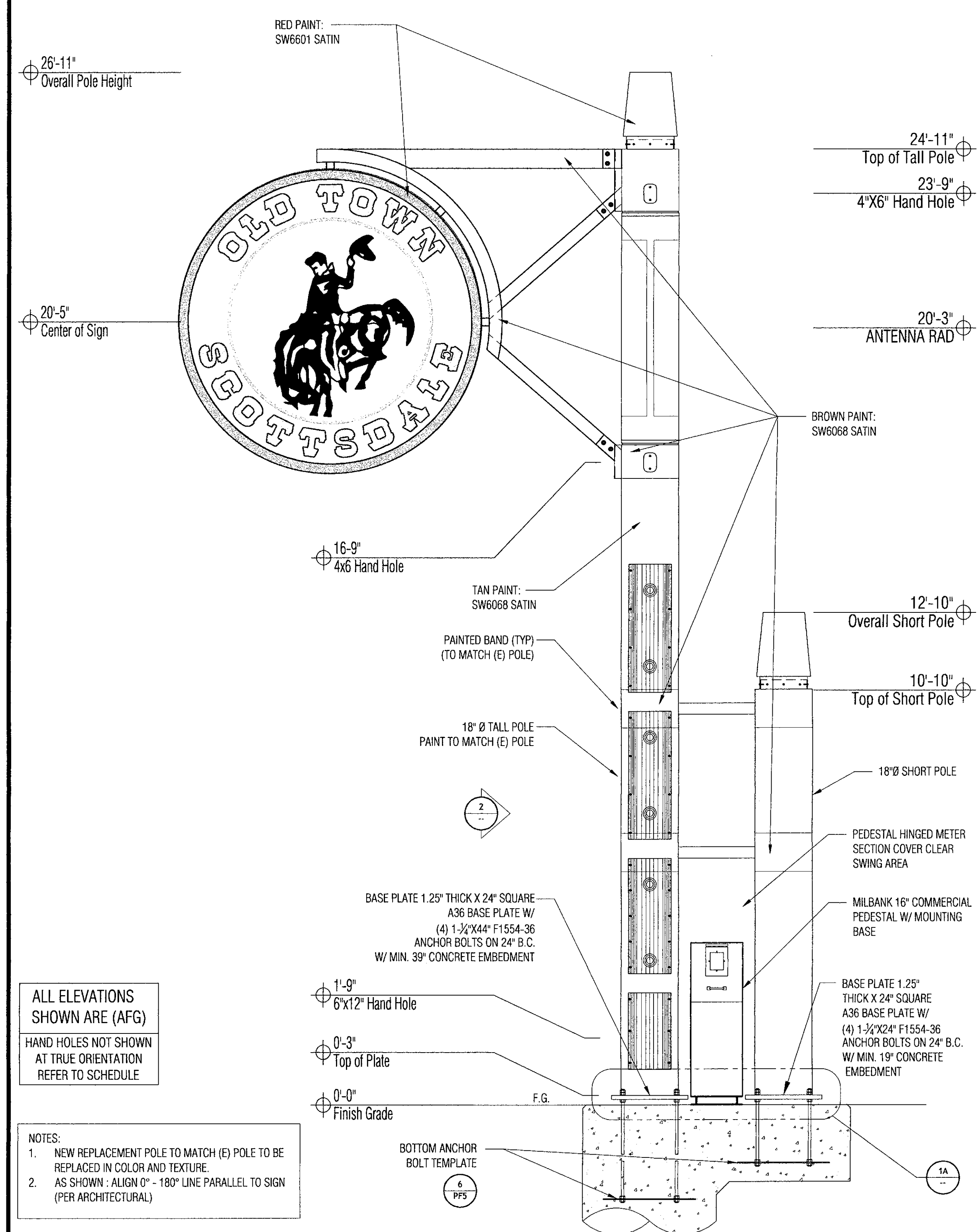
3 PIER FOUNDATION SCALE: N.T.S.



2 POLE ELEVATION - SIDE SCALE: N.T.S.



1A POLE TO PEDESTAL CLEARANCE SCALE: N.T.S.



1 POLE ELEVATION - FRONT SCALE: N.T.S.

ALL ELEVATIONS SHOWN ARE (AFG)  
HAND HOLES NOT SHOWN AT TRUE ORIENTATION REFER TO SCHEDULE

NOTES:  
1. NEW REPLACEMENT POLE TO MATCH (E) POLE TO BE REPLACED IN COLOR AND TEXTURE.  
2. AS SHOWN: ALIGN 0° - 180° LINE PARALLEL TO SIGN (PER ARCHITECTURAL)

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ISE JOB #: 10704

**PHO\_ZUZU-VALLEYHO\_2\_SC**  
**(SMALL CELL)**

**POLE DETAIL & FOUNDATION DETAILS(S)**

SCOTTSDALE RD & MAIN ST., Scottsdale, AZ 85251

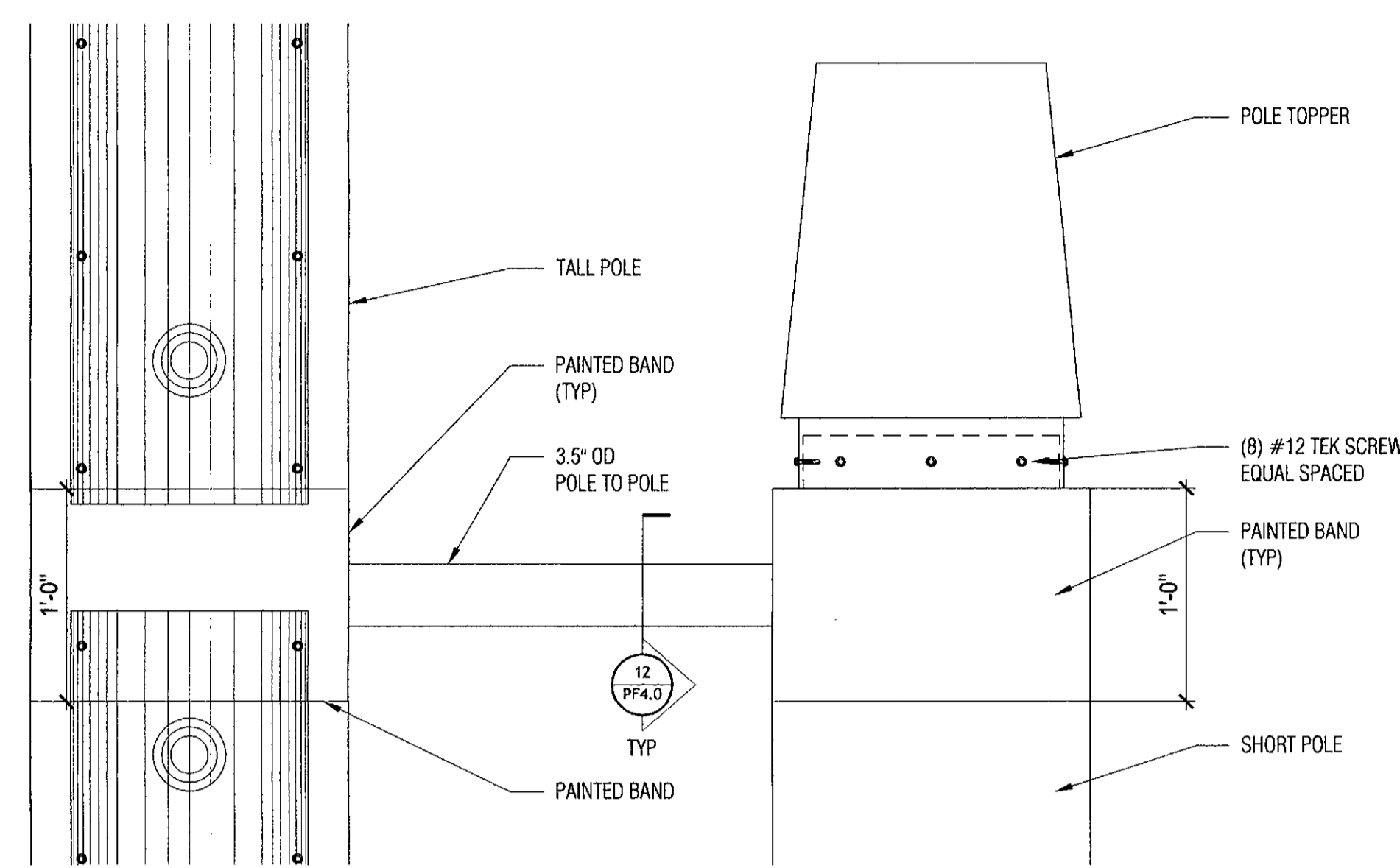
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**Professional Engineer**  
Glen L. Hart III  
Oct 20, 2017  
Arizona, U.S.A.  
Expires 8/31/2020

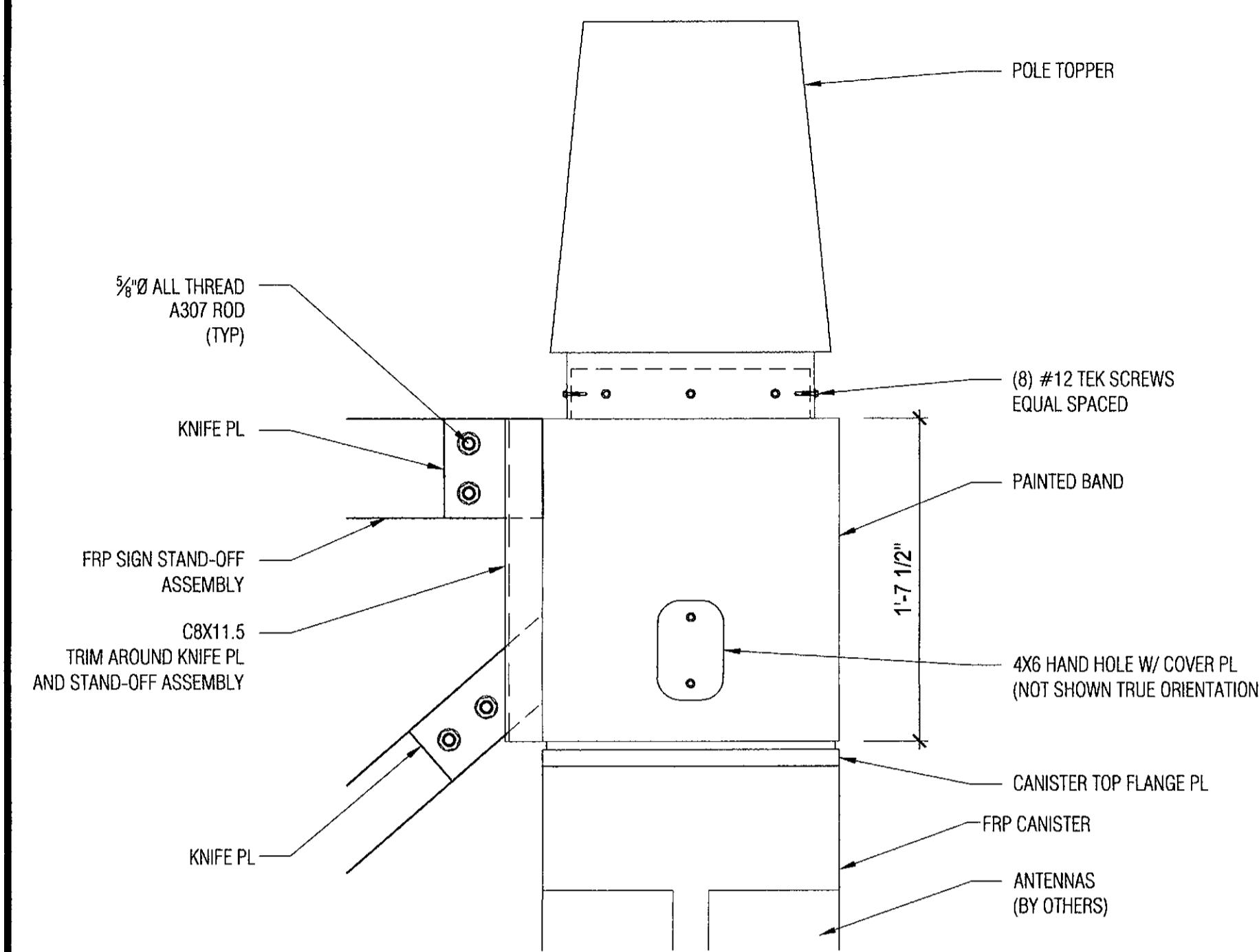
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SHEET NUMBER **PF2.0** PROGRESS **9**

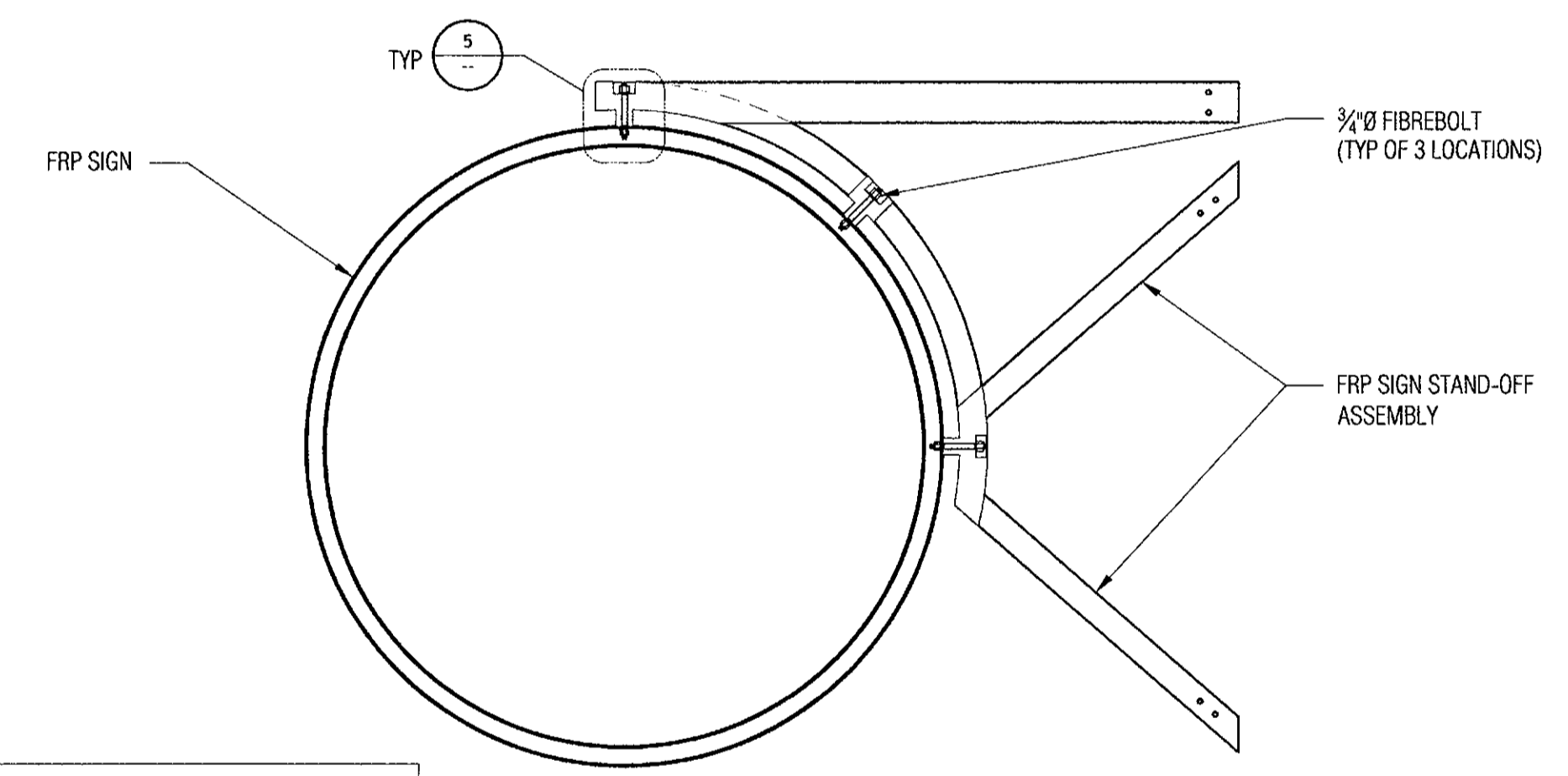
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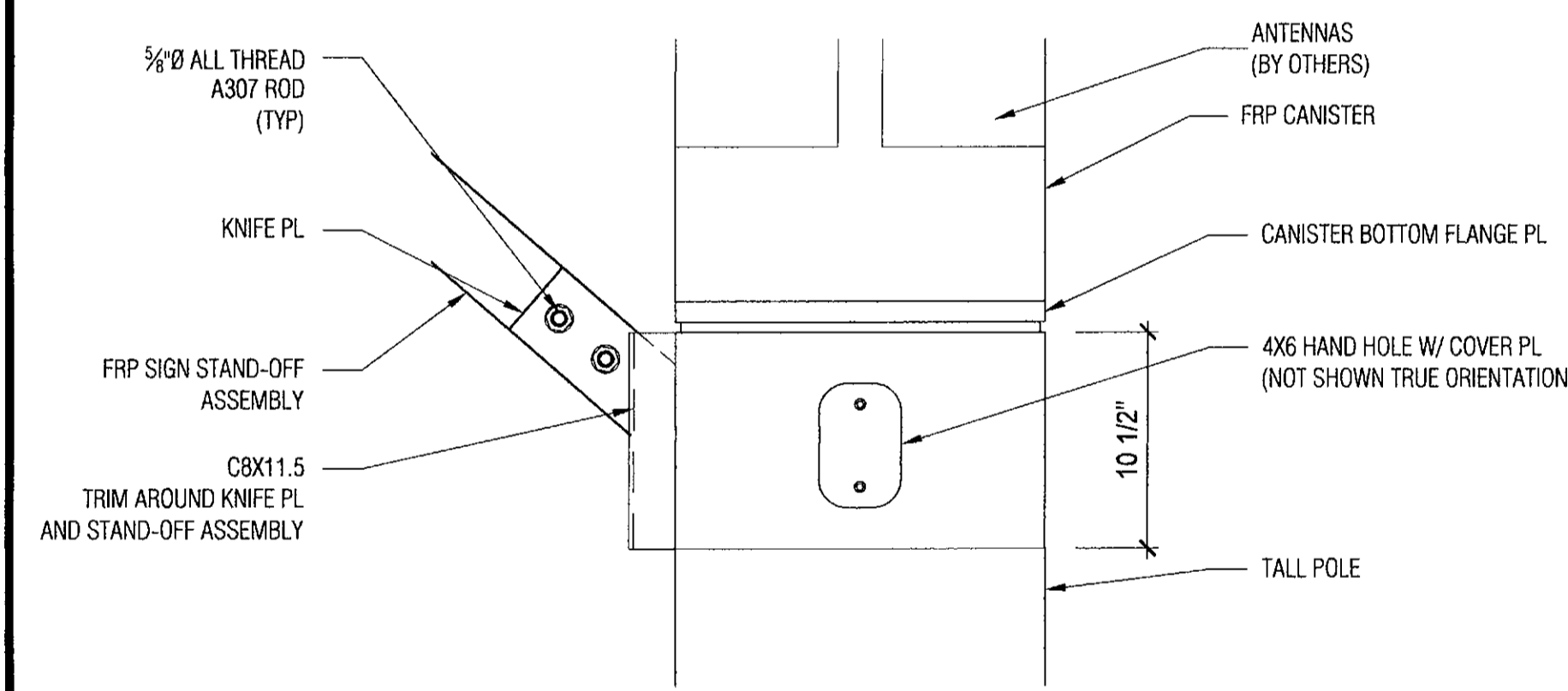
3 TOP OF SHORT POLE DETAIL SCALE: 1/2" = 1'-0"



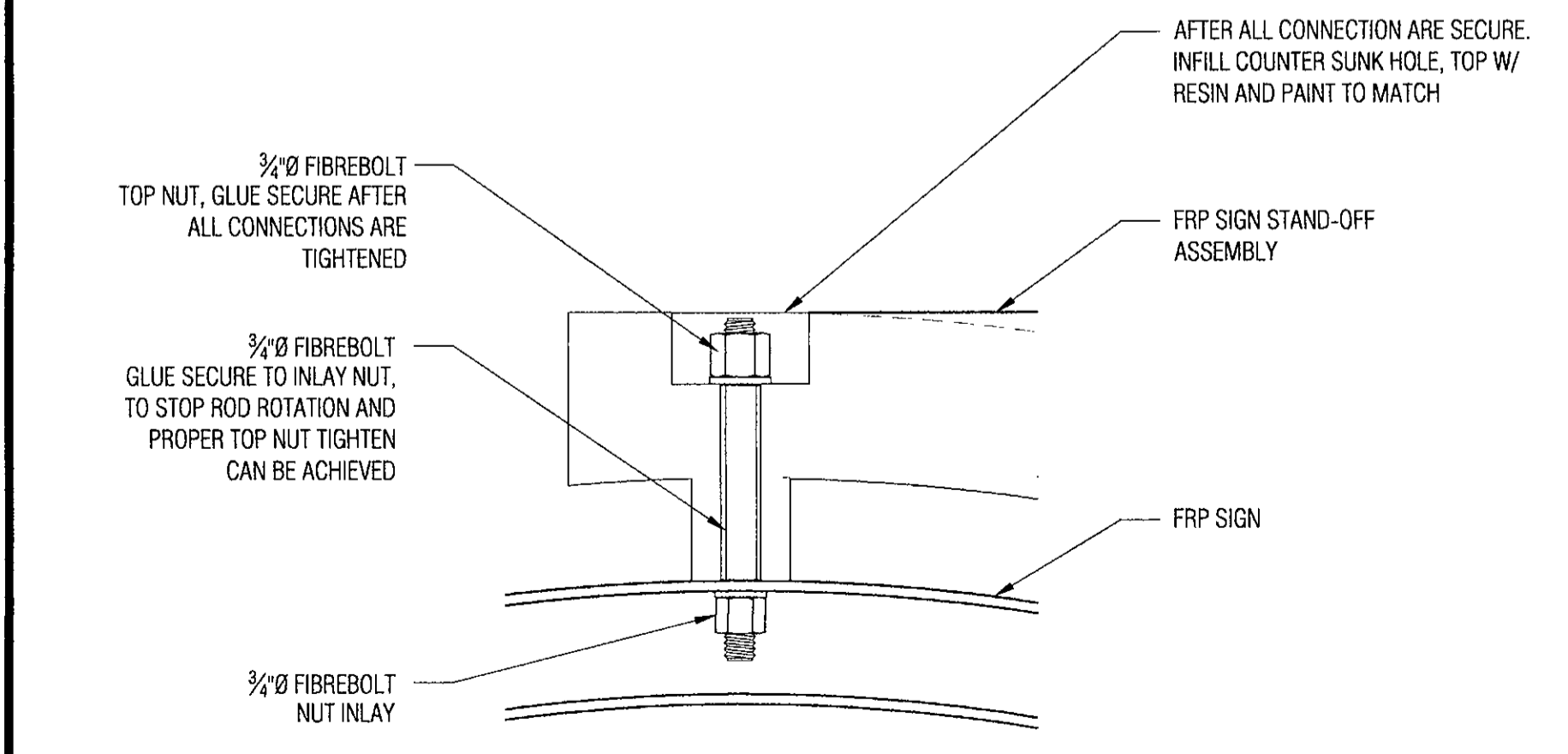
1 TOP OF TALL POLE DETAIL SCALE: 1/2" = 1'-0"



4 FRP SIGN TO FRP SIGN STAND CONNECTIONS SCALE: 1/2" = 1'-0"



2 BOTTOM OF SIGN FRP ASSEMBLY DETAIL SCALE: 1/2" = 1'-0"



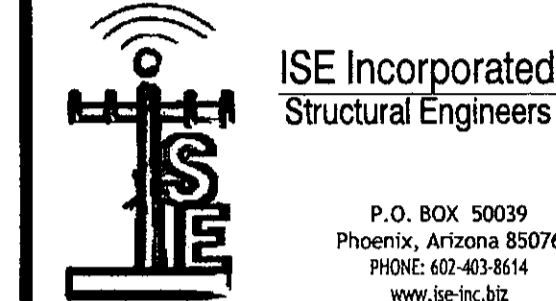
5 TYPICAL FRP SIGN TO FRP STAND-OFF ASSEMBLY SCALE: 3" = 1'-0"



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**DETAILS**  
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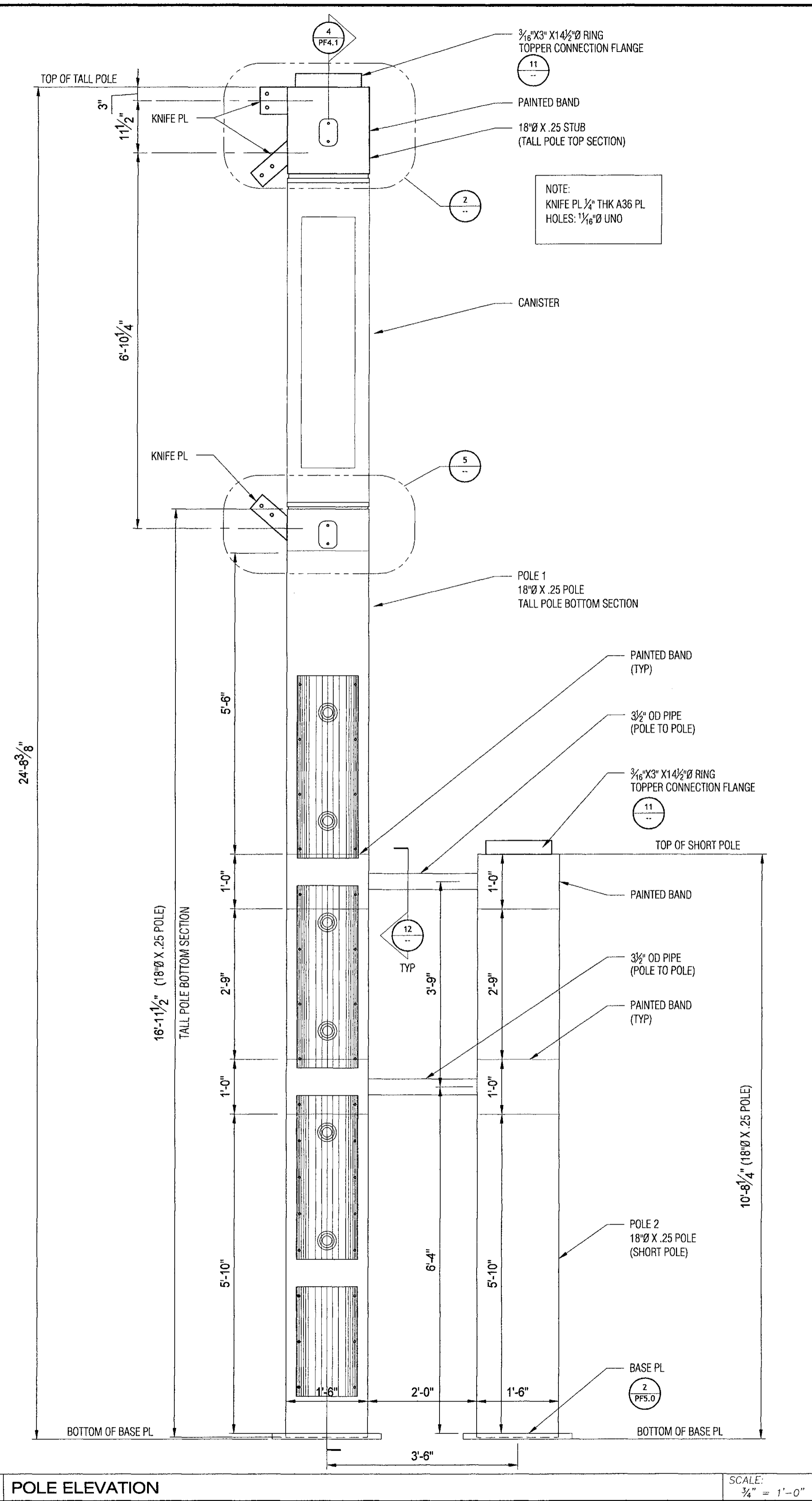
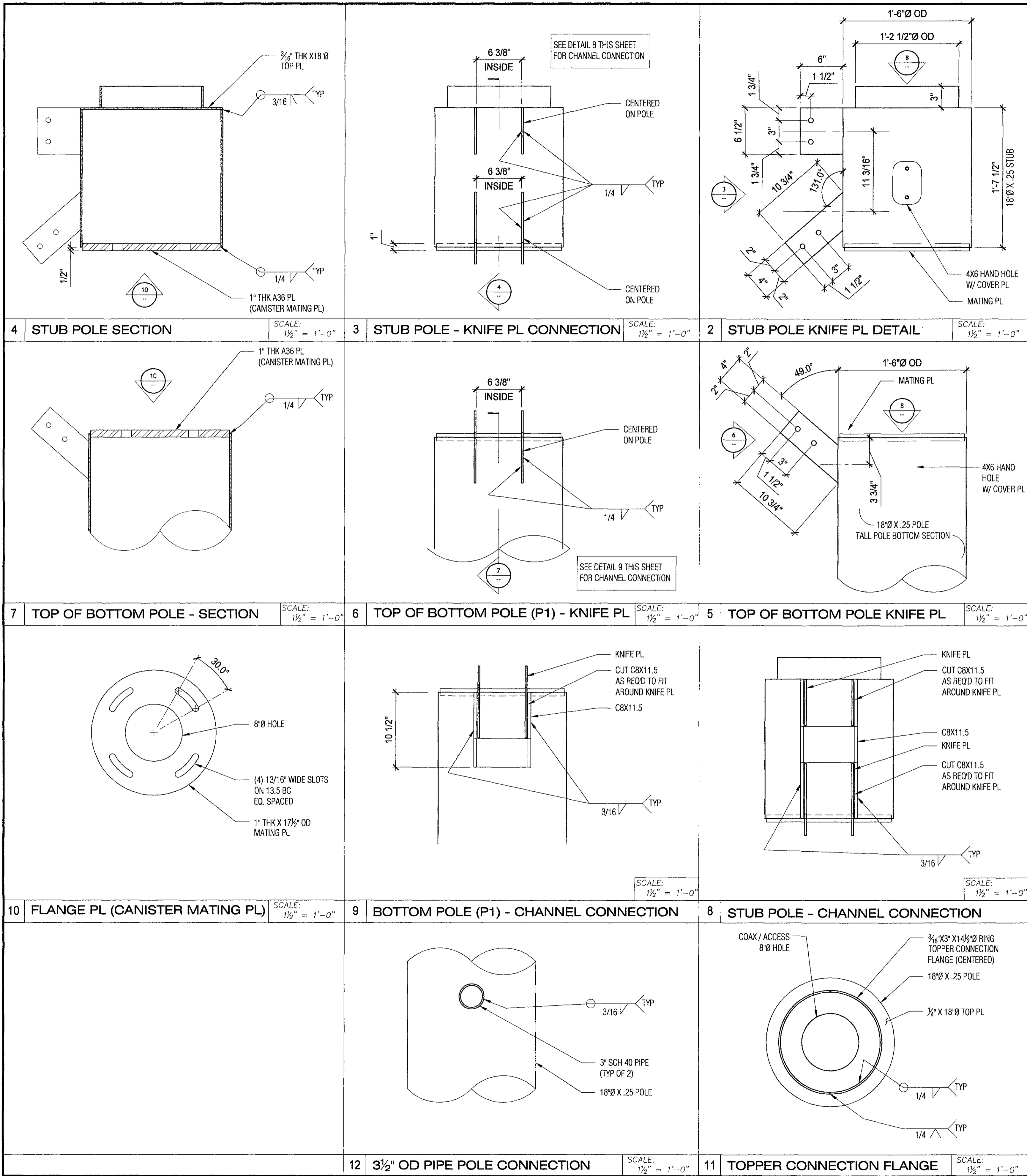


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SHEET NUMBER **PF3.0** PROGRESS **9**

DRAWING DATE **October 20, 2017**





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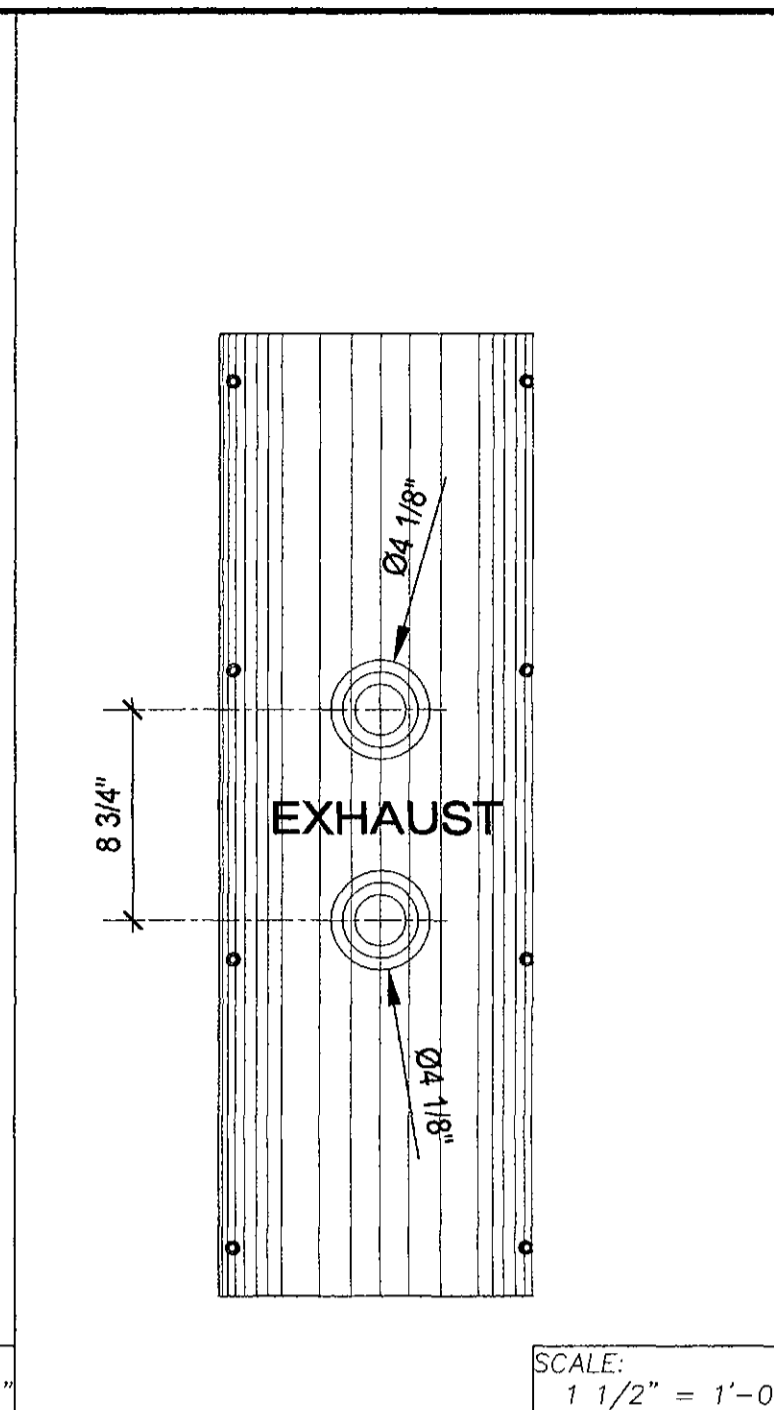
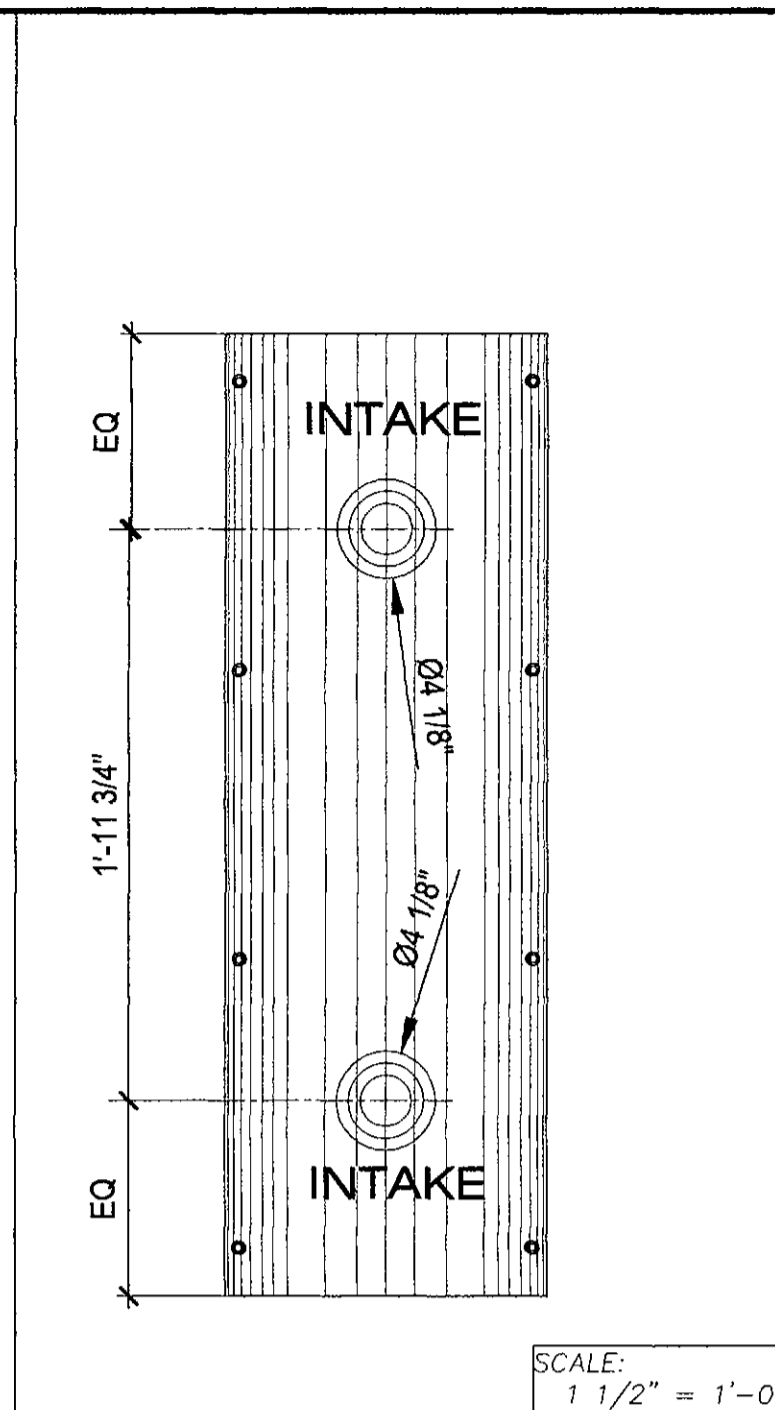
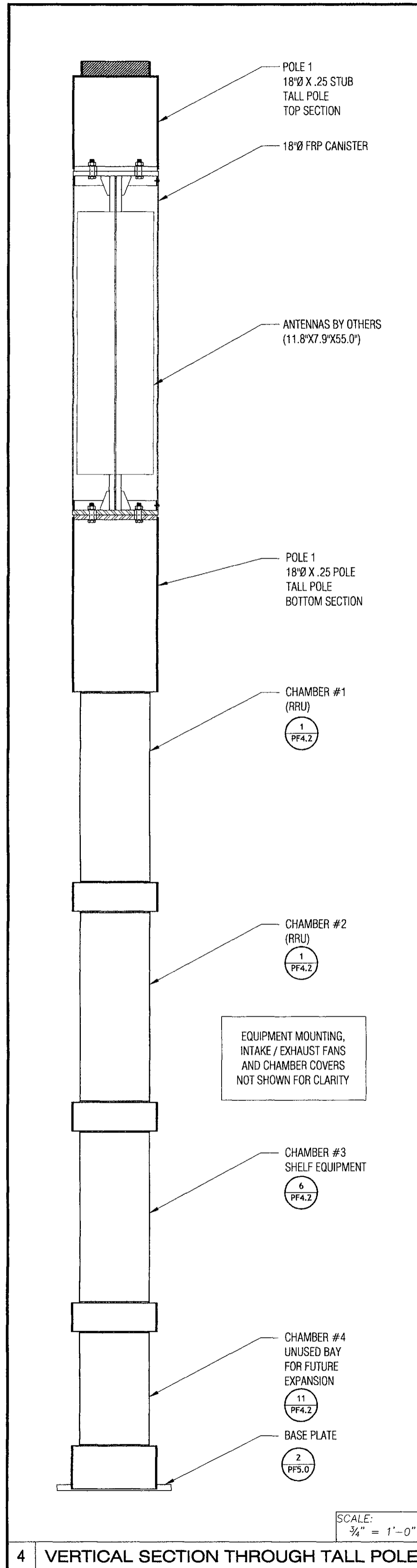
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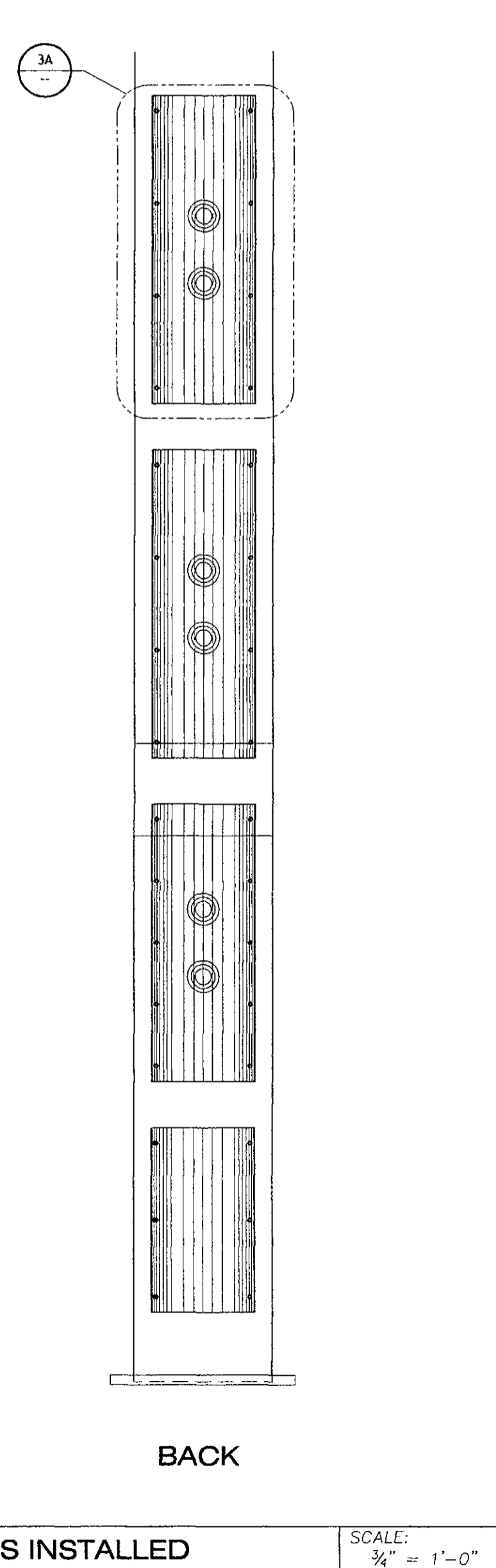
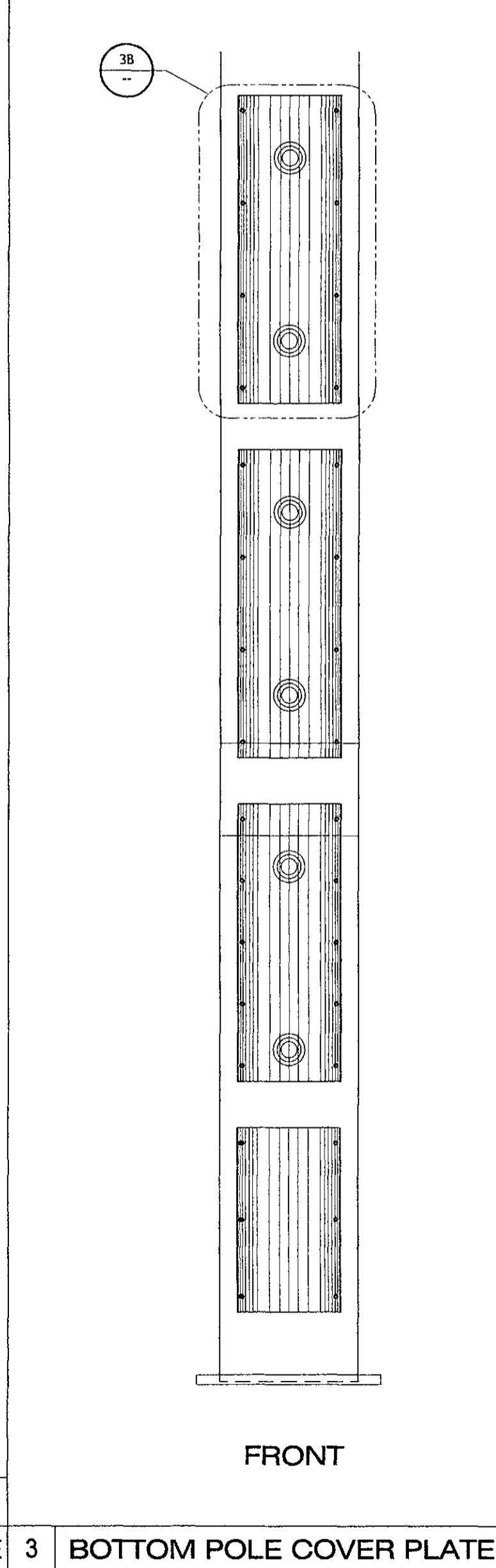
**SHEET NUMBER** PF4.0 **PROGRESS** 9

**DRAWING DATE** October 20, 2017



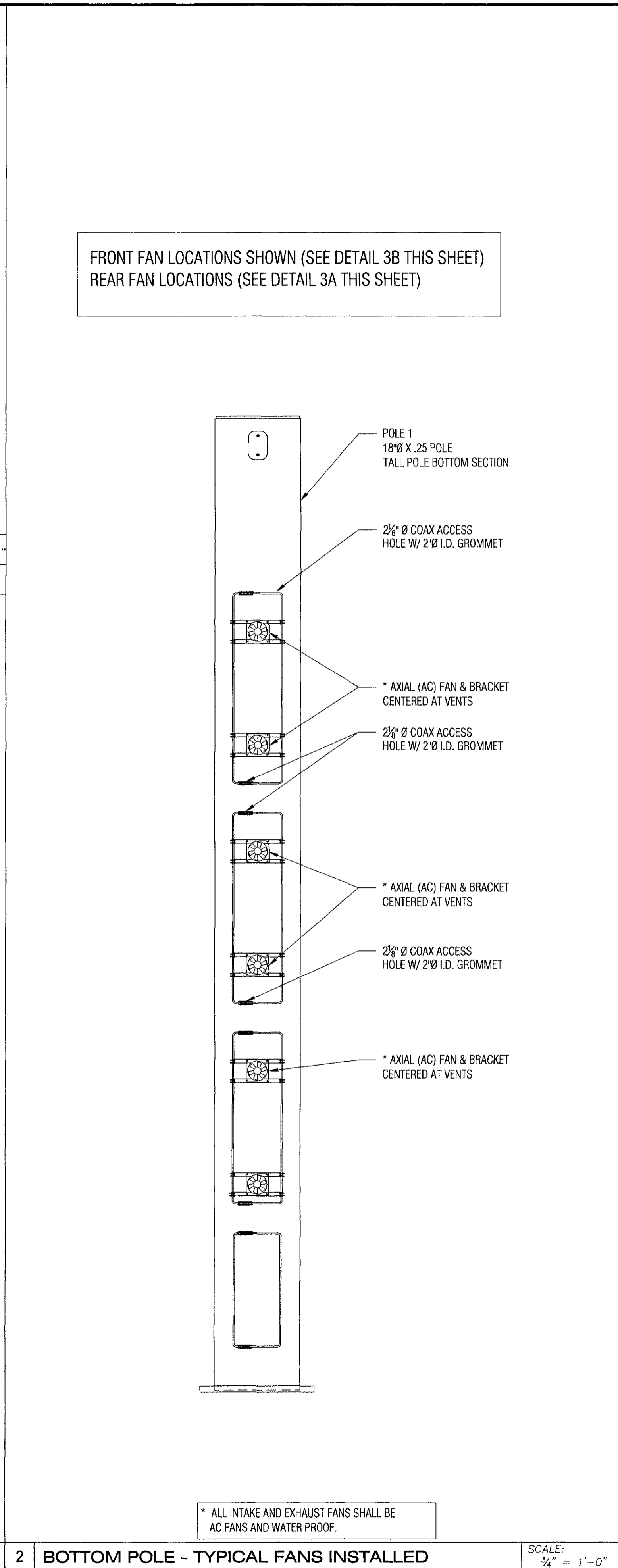
3B TYPICAL FRONT VENT

3A TYPICAL REAR VENT

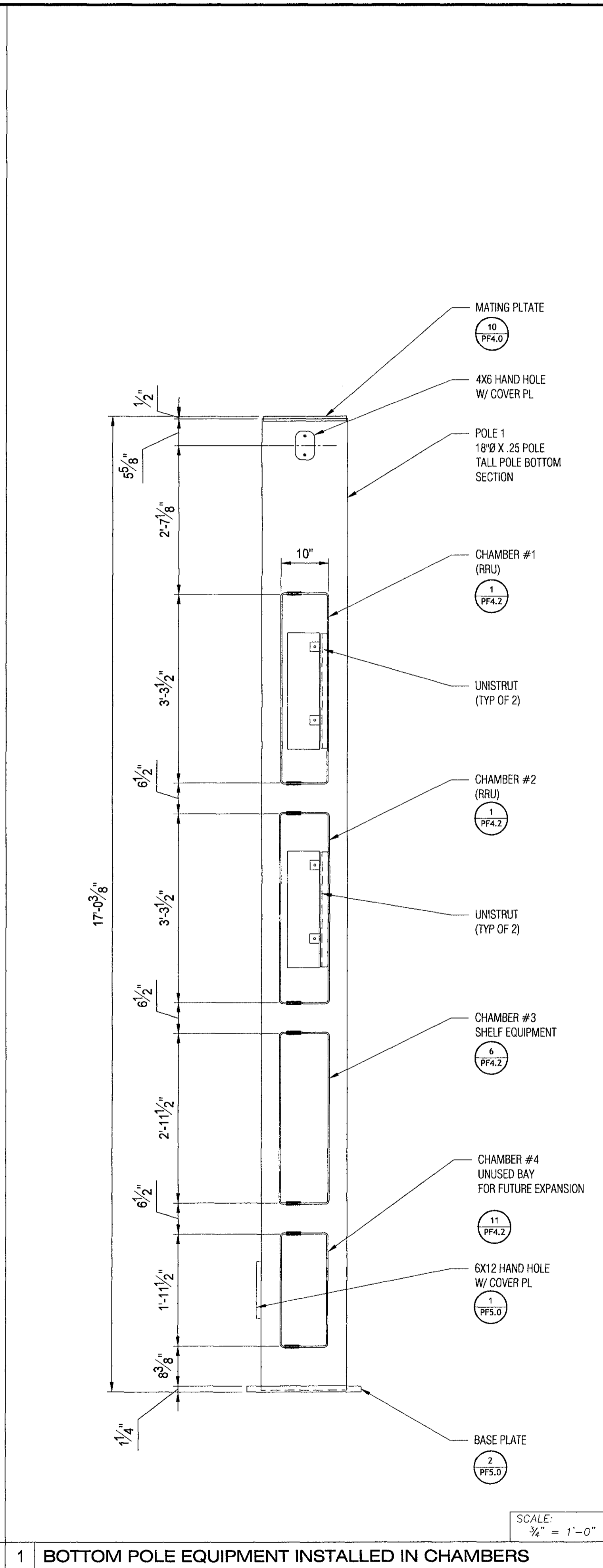


3 BOTTOM POLE COVER PLATES INSTALLED

FRONT FAN LOCATIONS SHOWN (SEE DETAIL 3B THIS SHEET)  
REAR FAN LOCATIONS (SEE DETAIL 3A THIS SHEET)



2 BOTTOM POLE - TYPICAL FANS INSTALLED



1 BOTTOM POLE EQUIPMENT INSTALLED IN CHAMBERS

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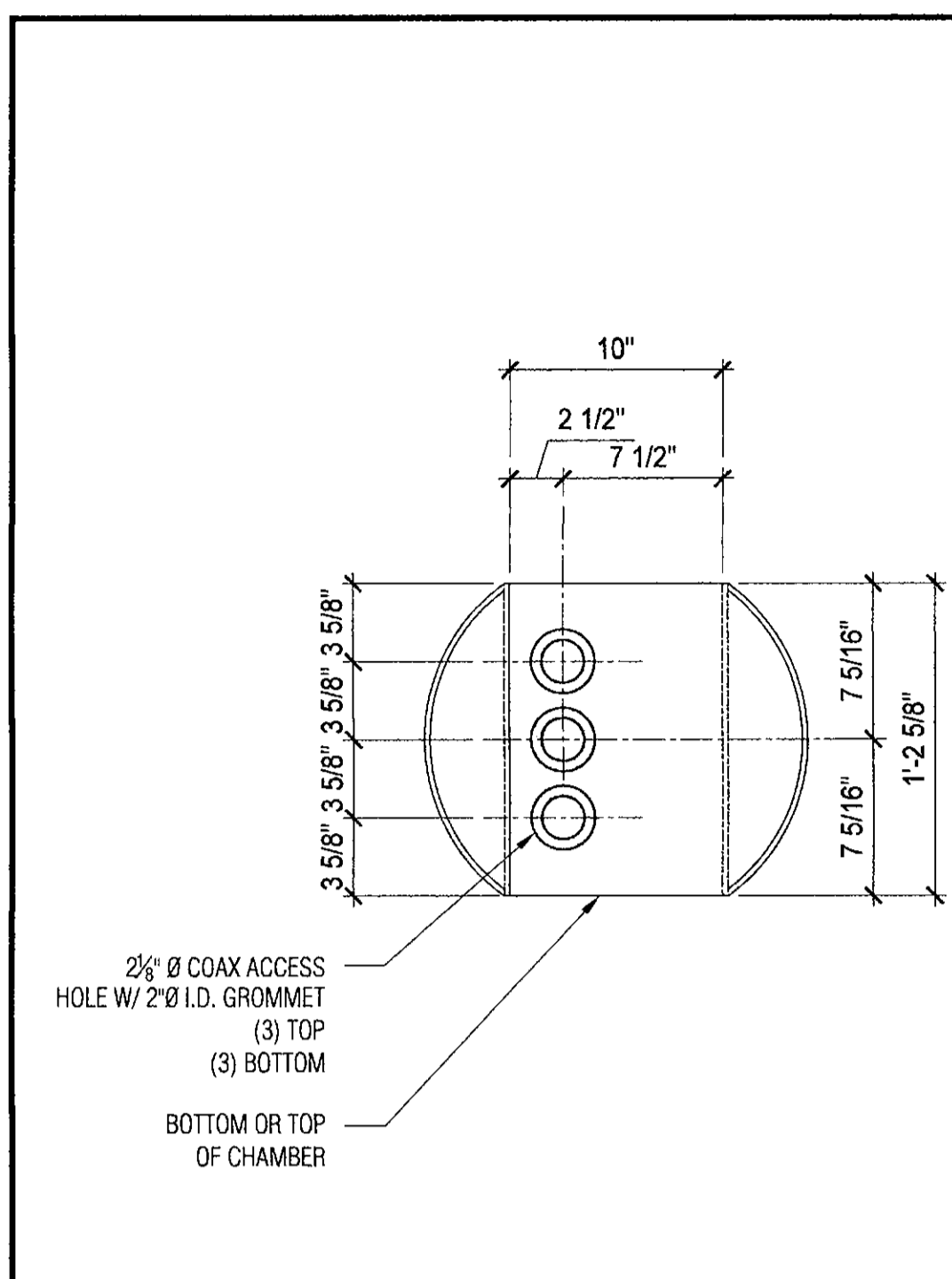
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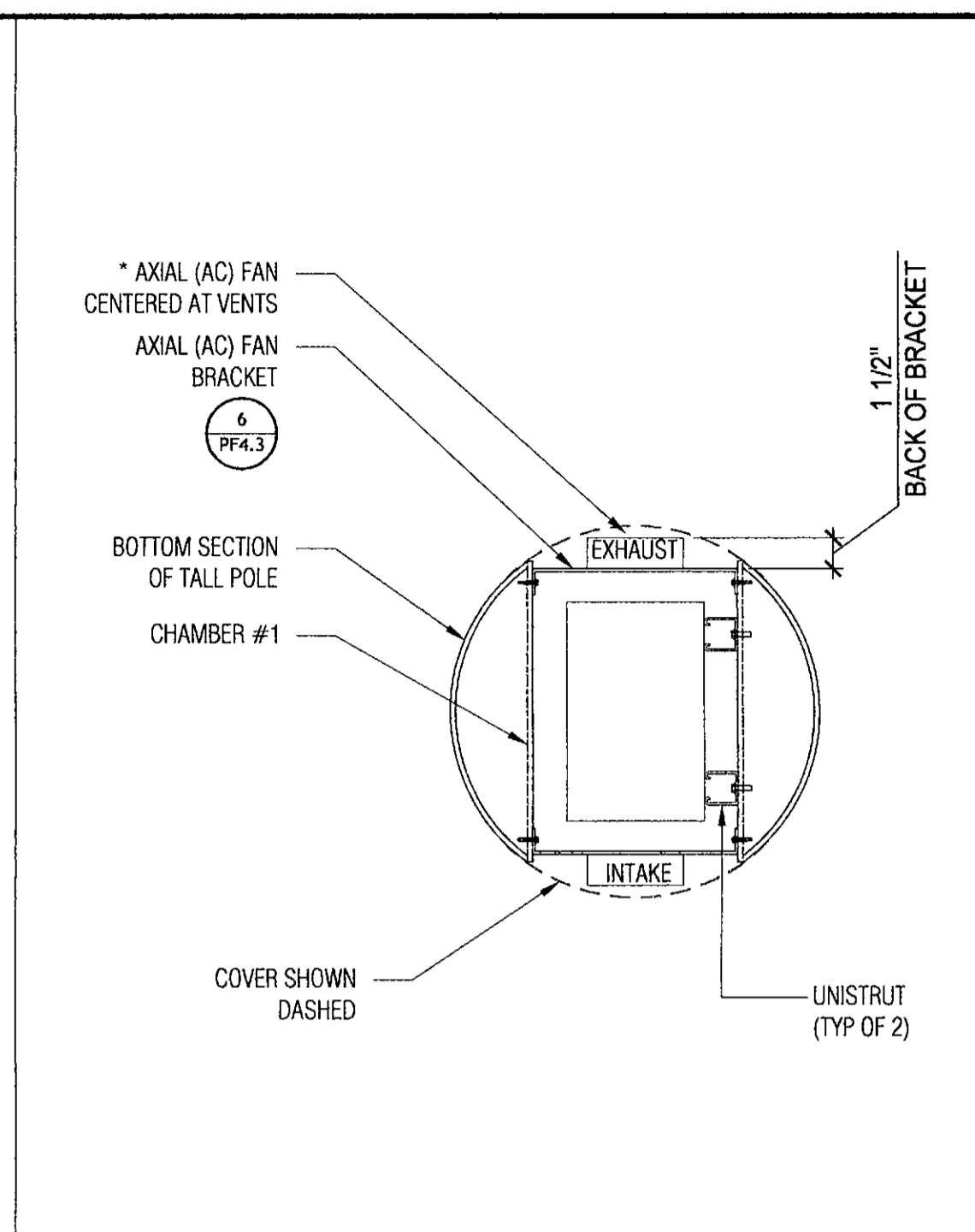
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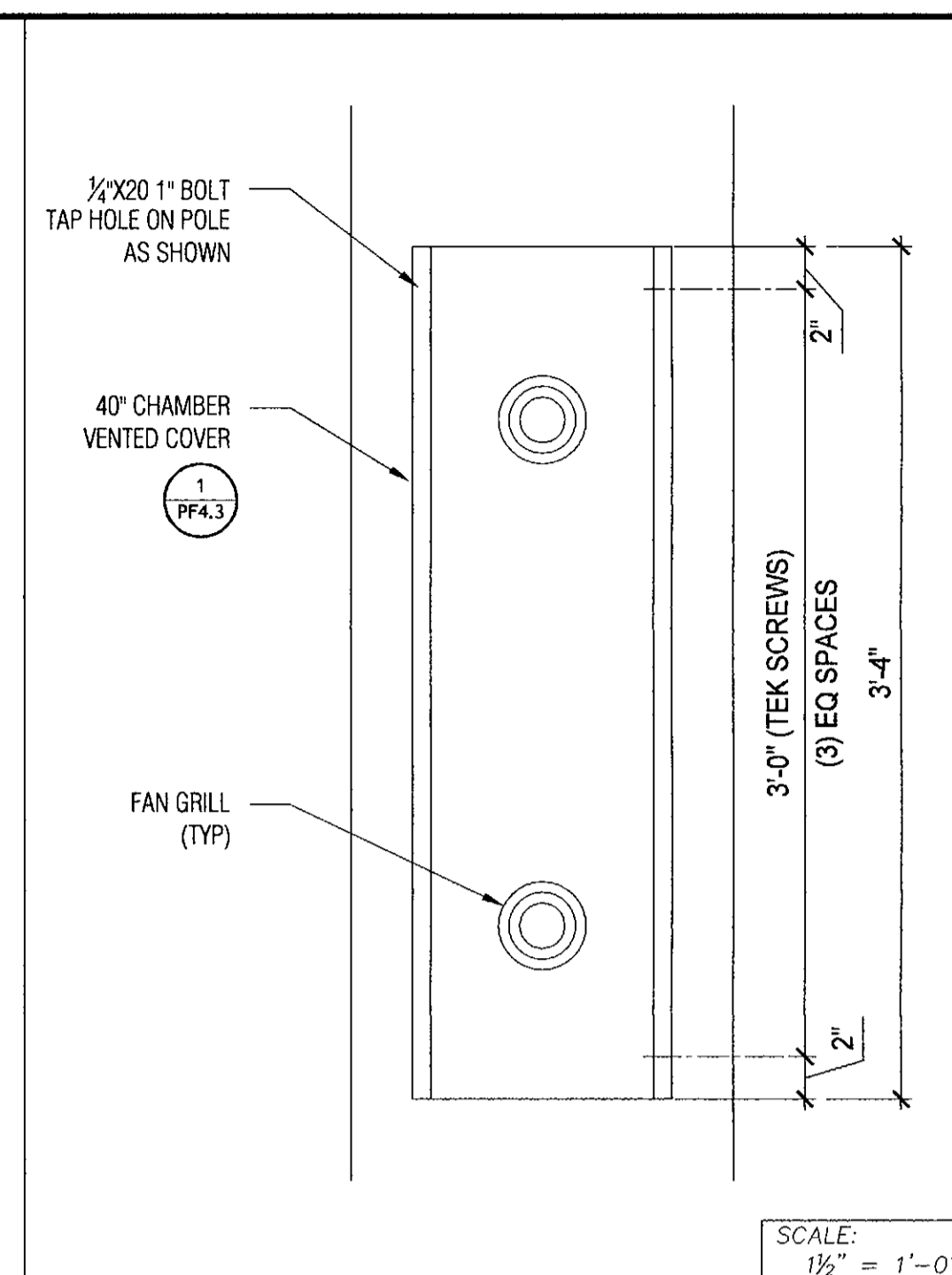
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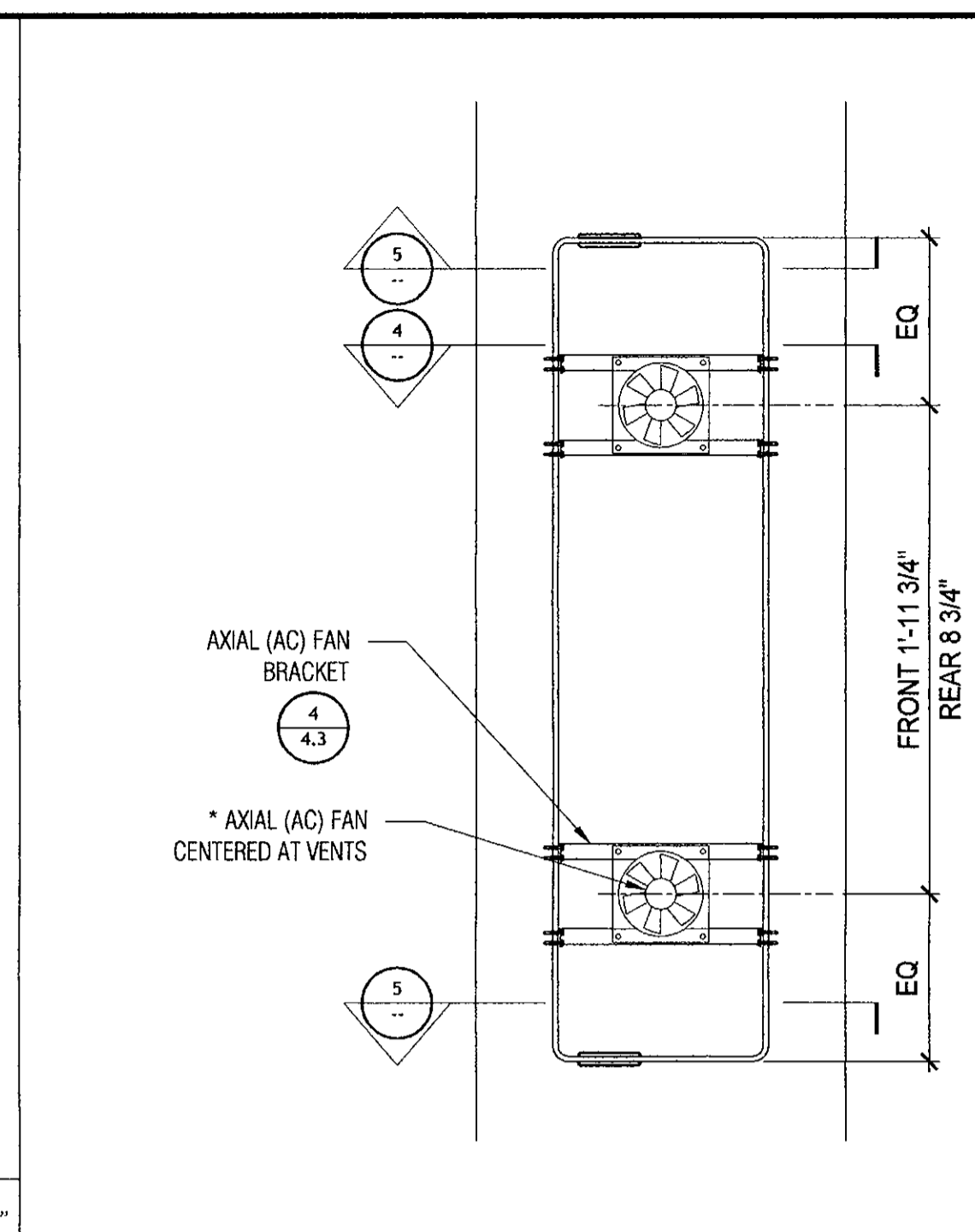
5 TOP OR BOTTOM GROMMET SCALE: 1/2" = 1'-0"



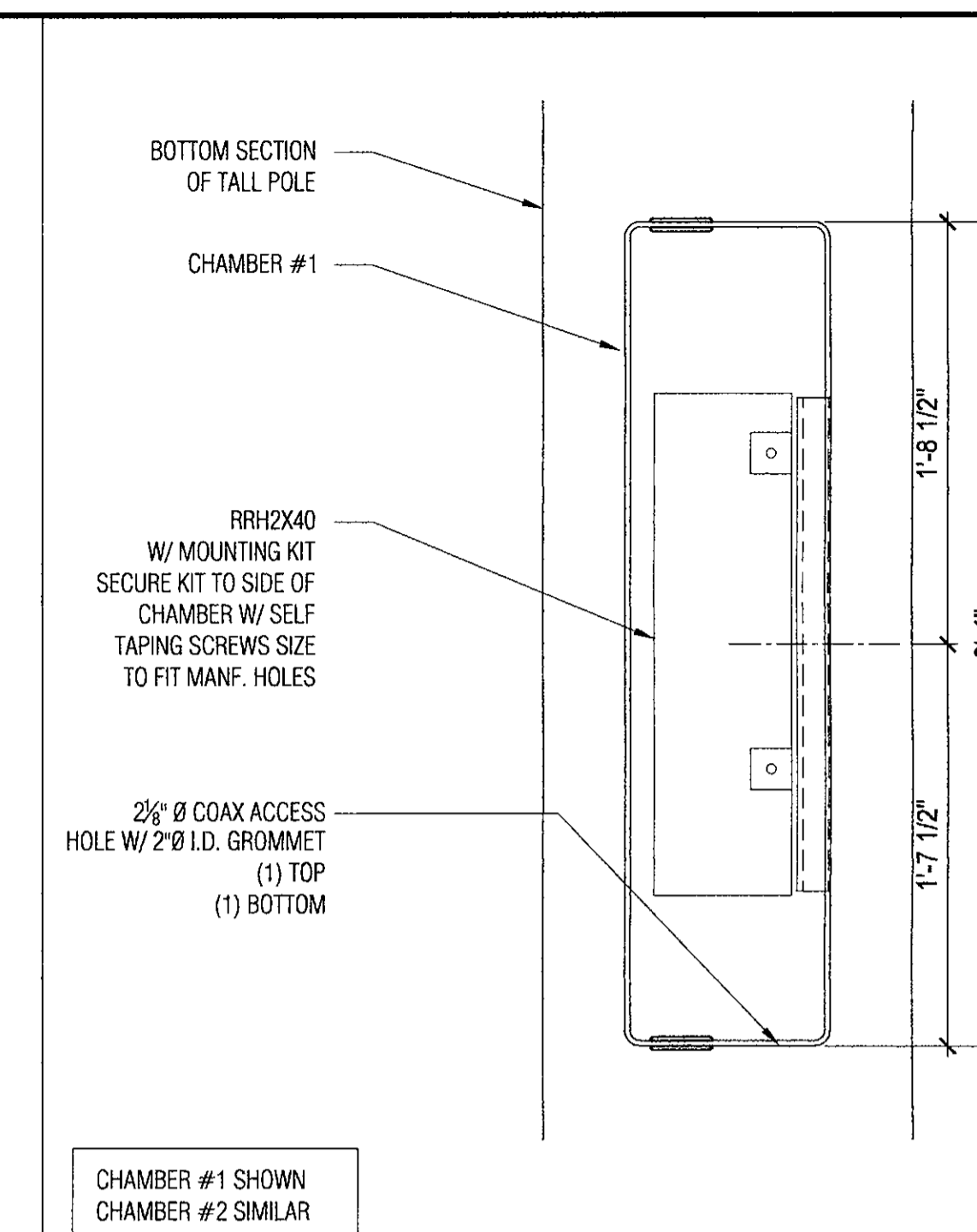
4 SECTION LOOK AT RRH SCALE: 1/2" = 1'-0"



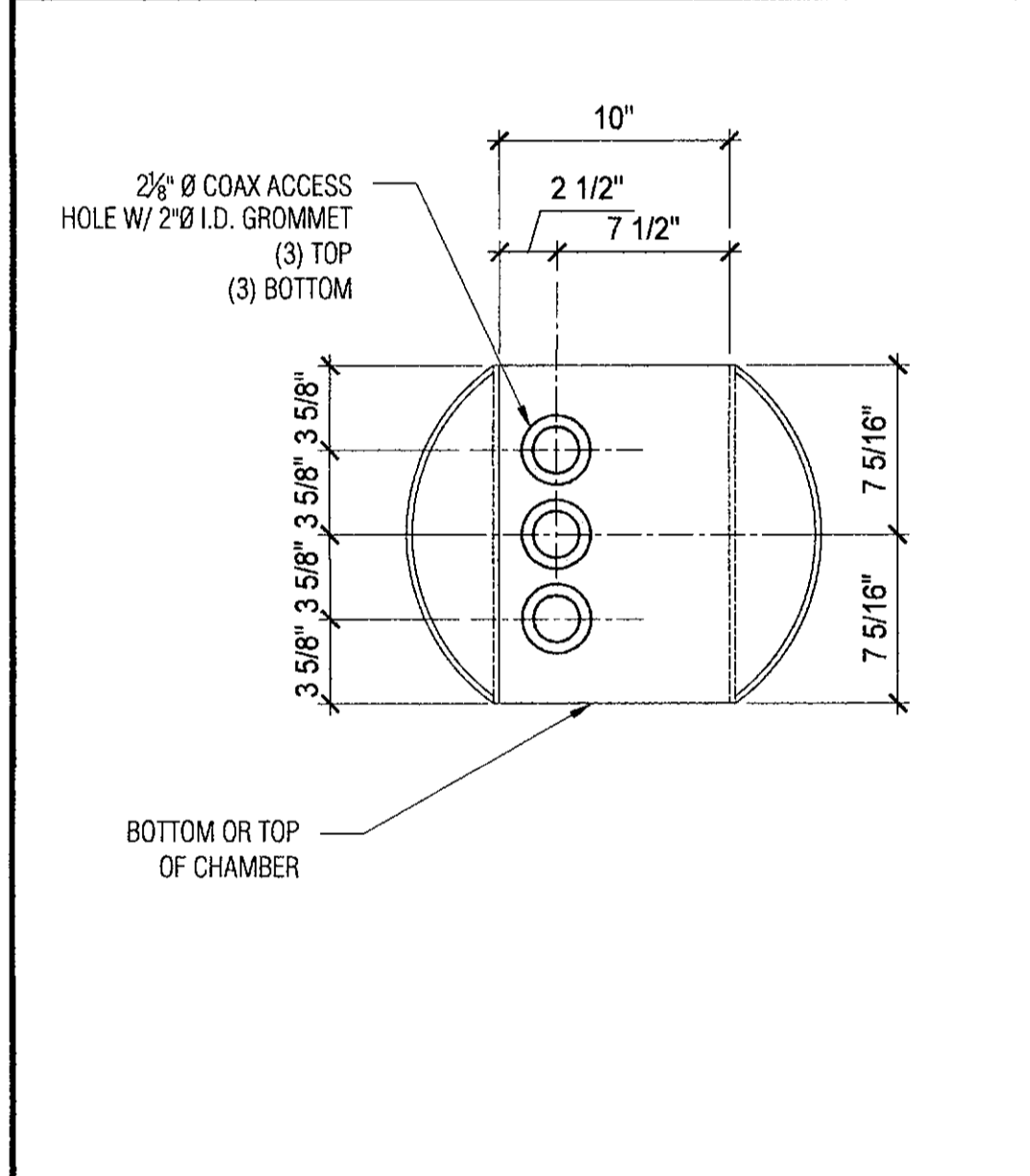
3 CHAMBER #1 COVER INSTALLED SCALE: 1/2" = 1'-0"



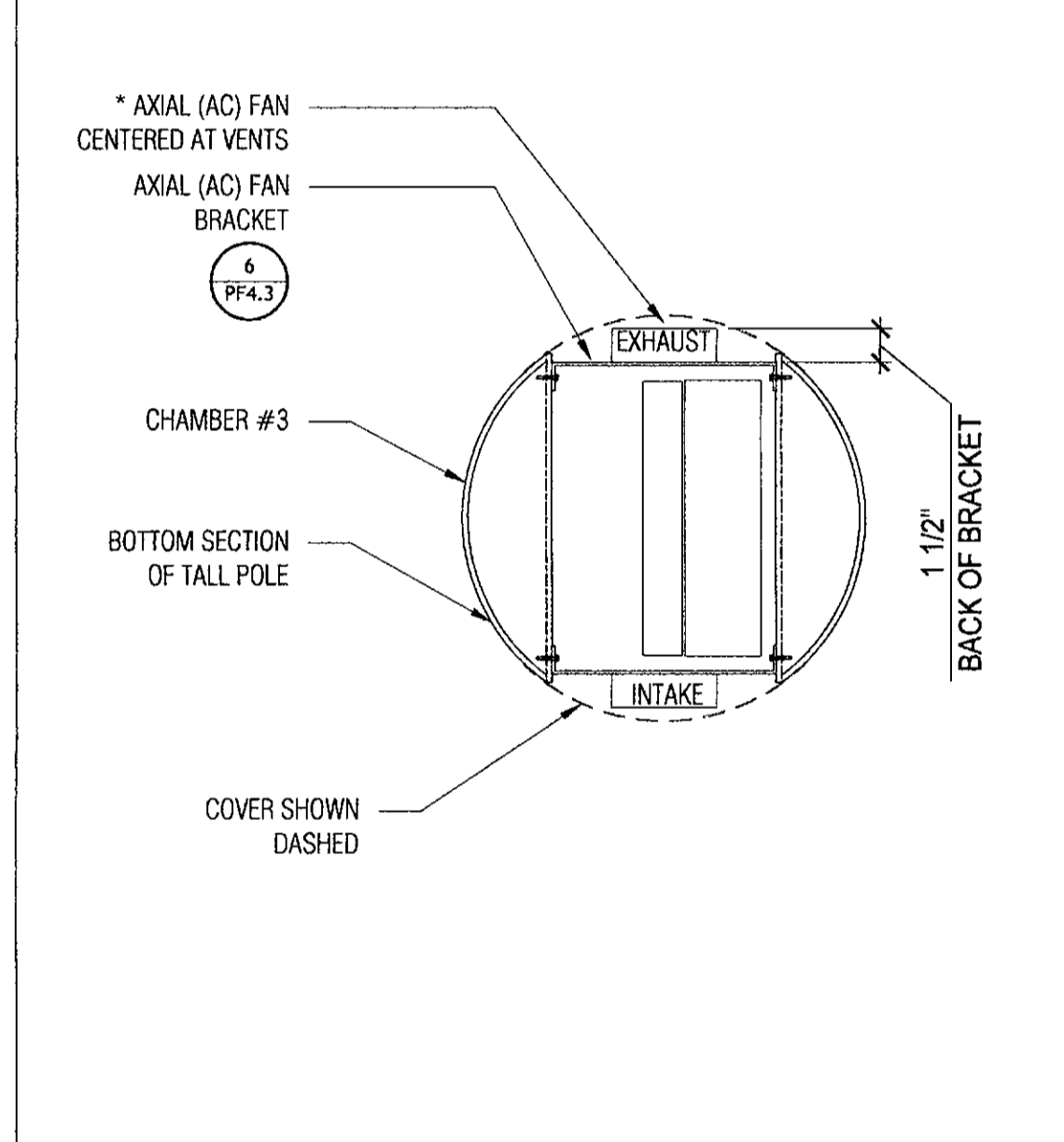
2 CHAMBER #1 FANS INSTALLED SCALE: 1/2" = 1'-0"



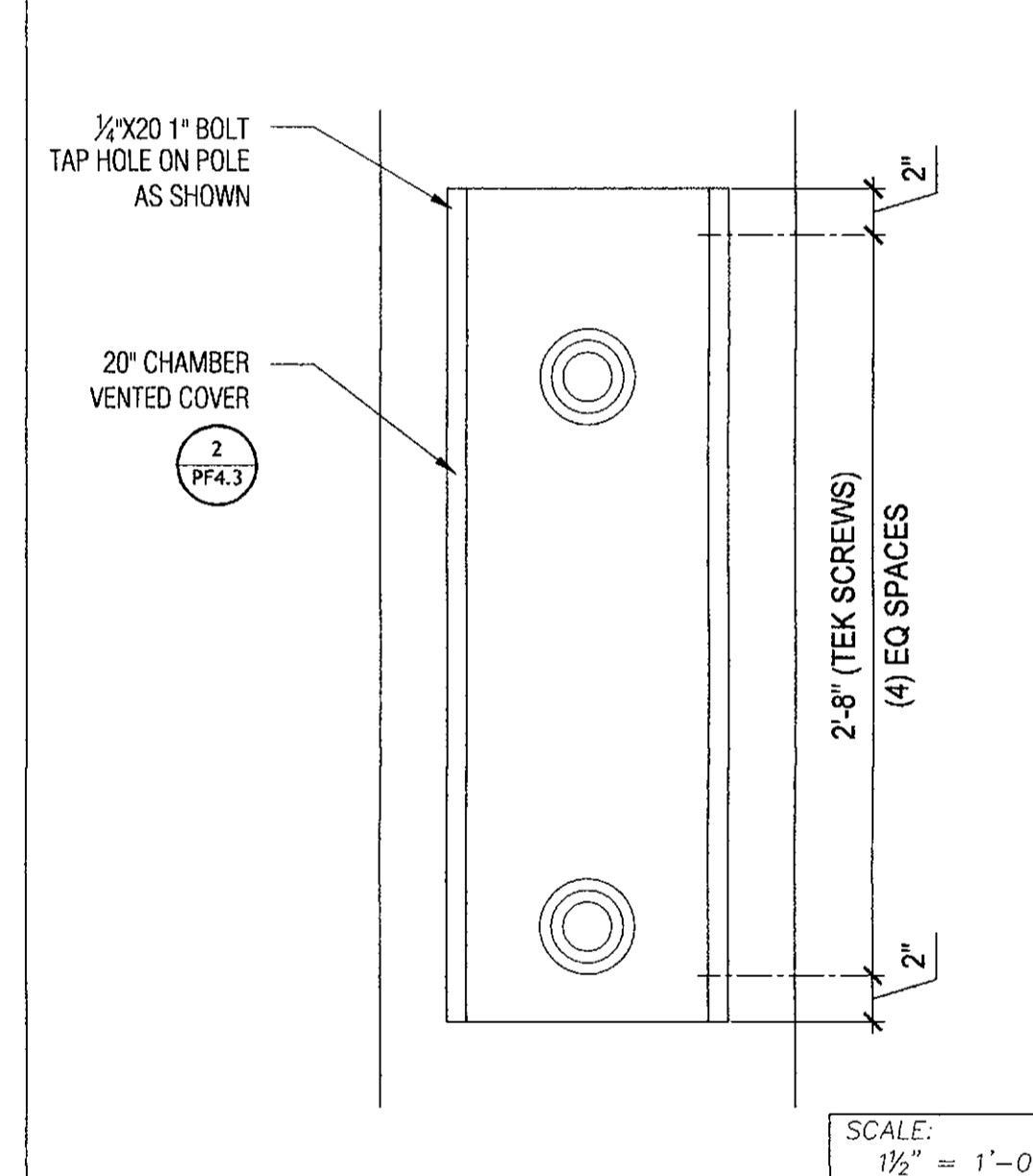
1 CHAMBER #1 RRU INSTALLED SCALE: 1/2" = 1'-0"



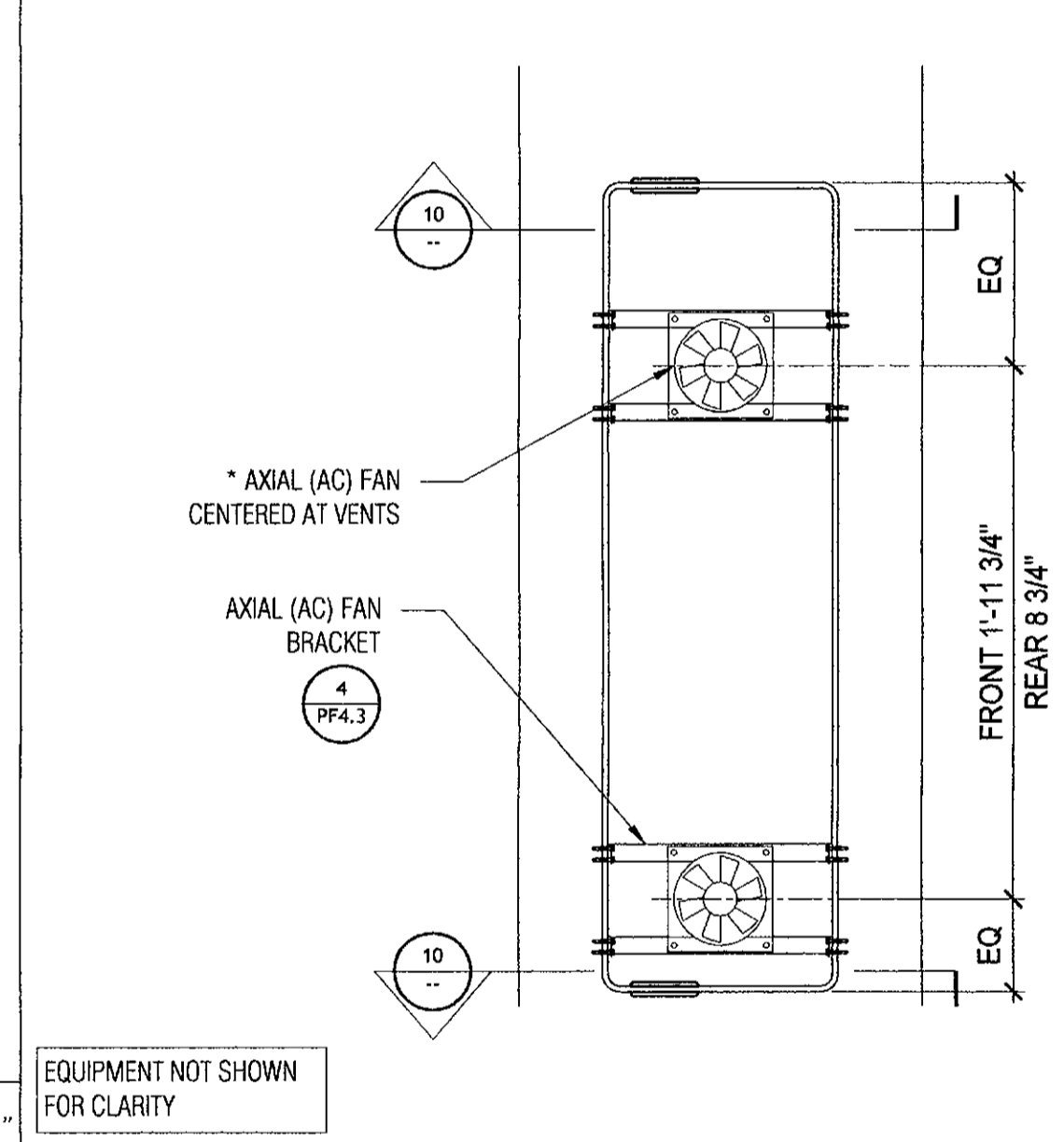
10 TOP OR BOTTOM GROMMET SCALE: 1/2" = 1'-0"



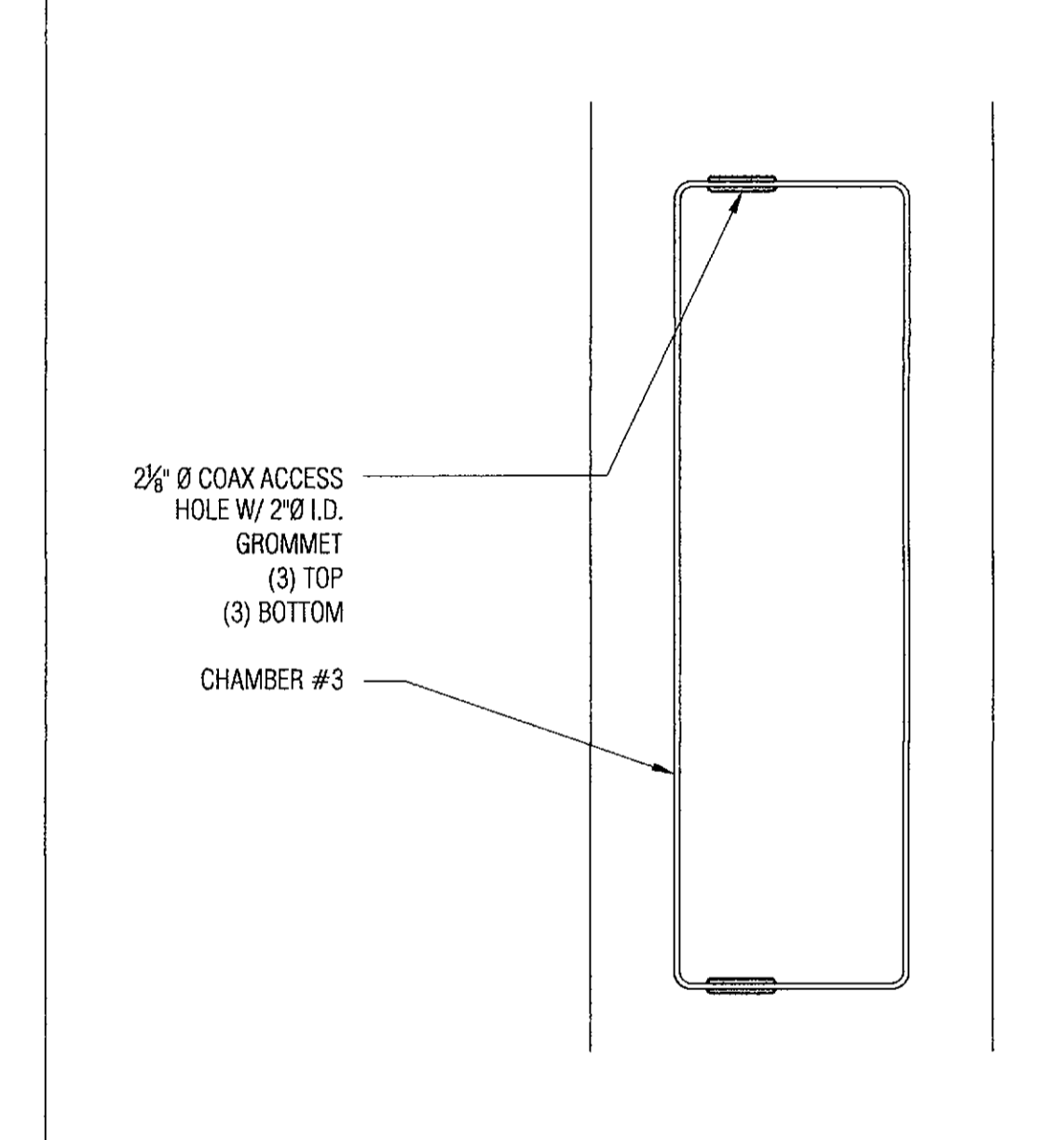
9 SECTION LOOK AT AT SHELF EQ. SCALE: 1/2" = 1'-0"



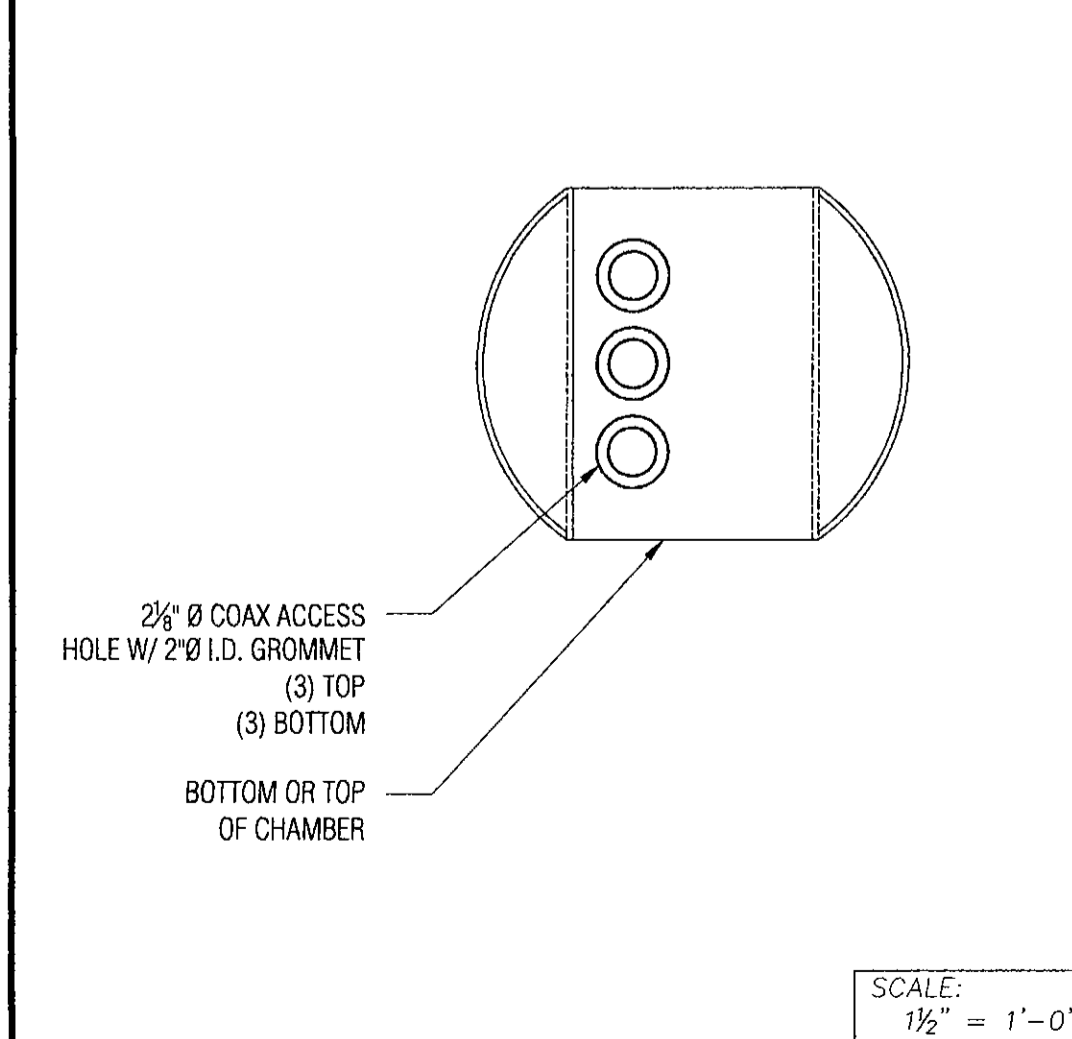
8 CHAMBER #3 COVER INSTALLED SCALE: 1/2" = 1'-0"



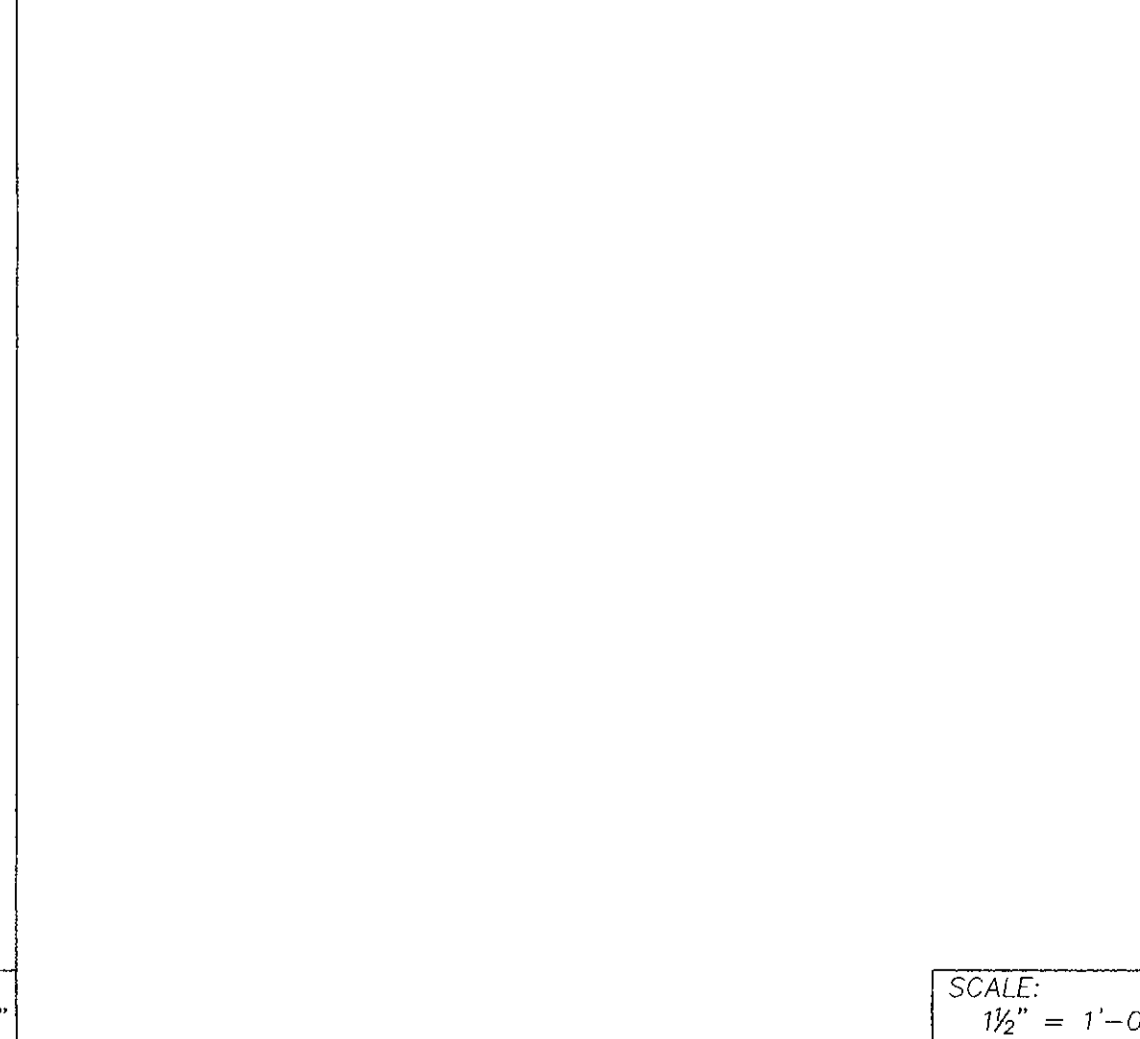
7 CHAMBER #3 FANS INSTALLED SCALE: 1/2" = 1'-0"



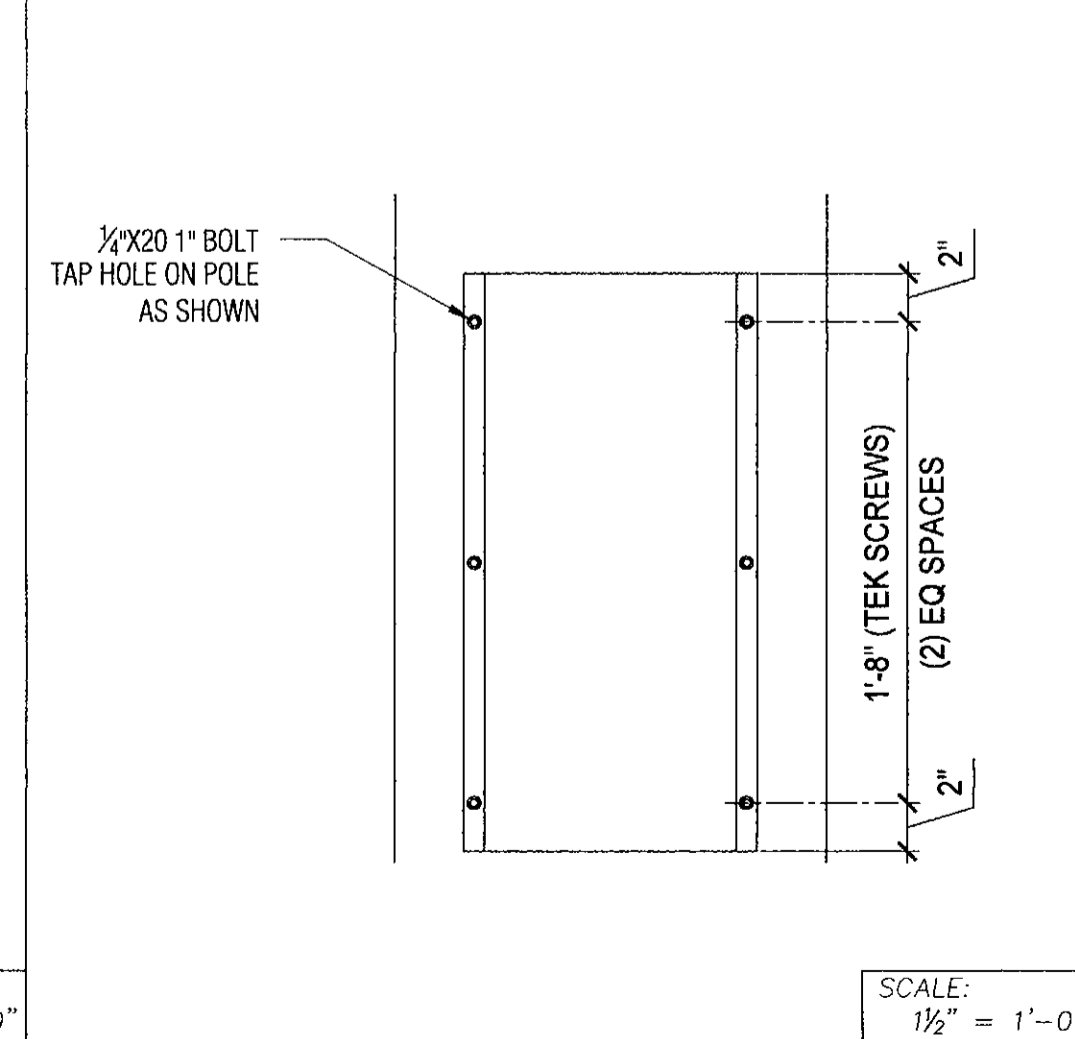
6 CHAMBER #3 SHELF EQ. INSTALLED SCALE: 1/2" = 1'-0"



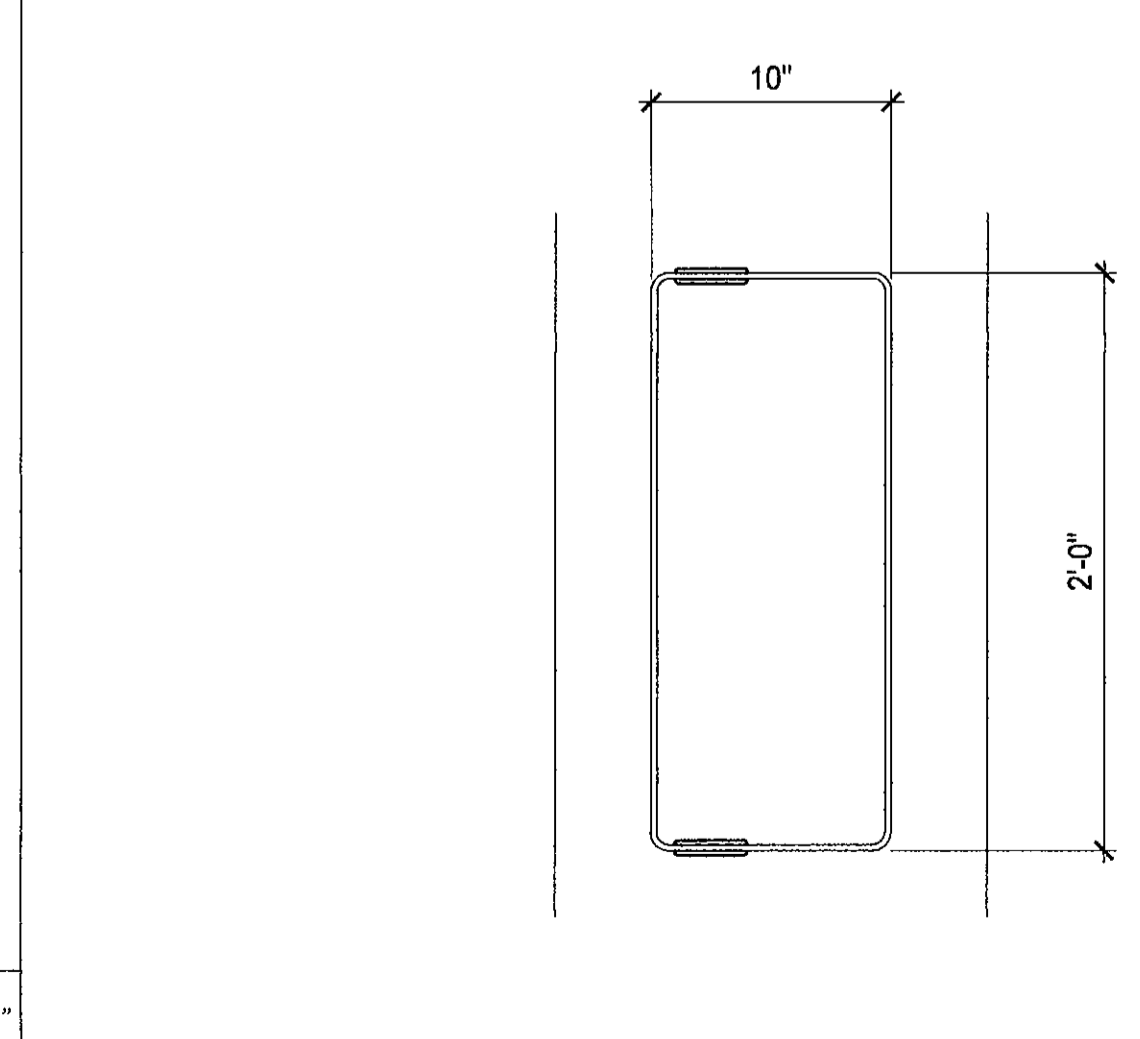
15 TOP OR BOTTOM GROMMET SCALE: 1/2" = 1'-0"



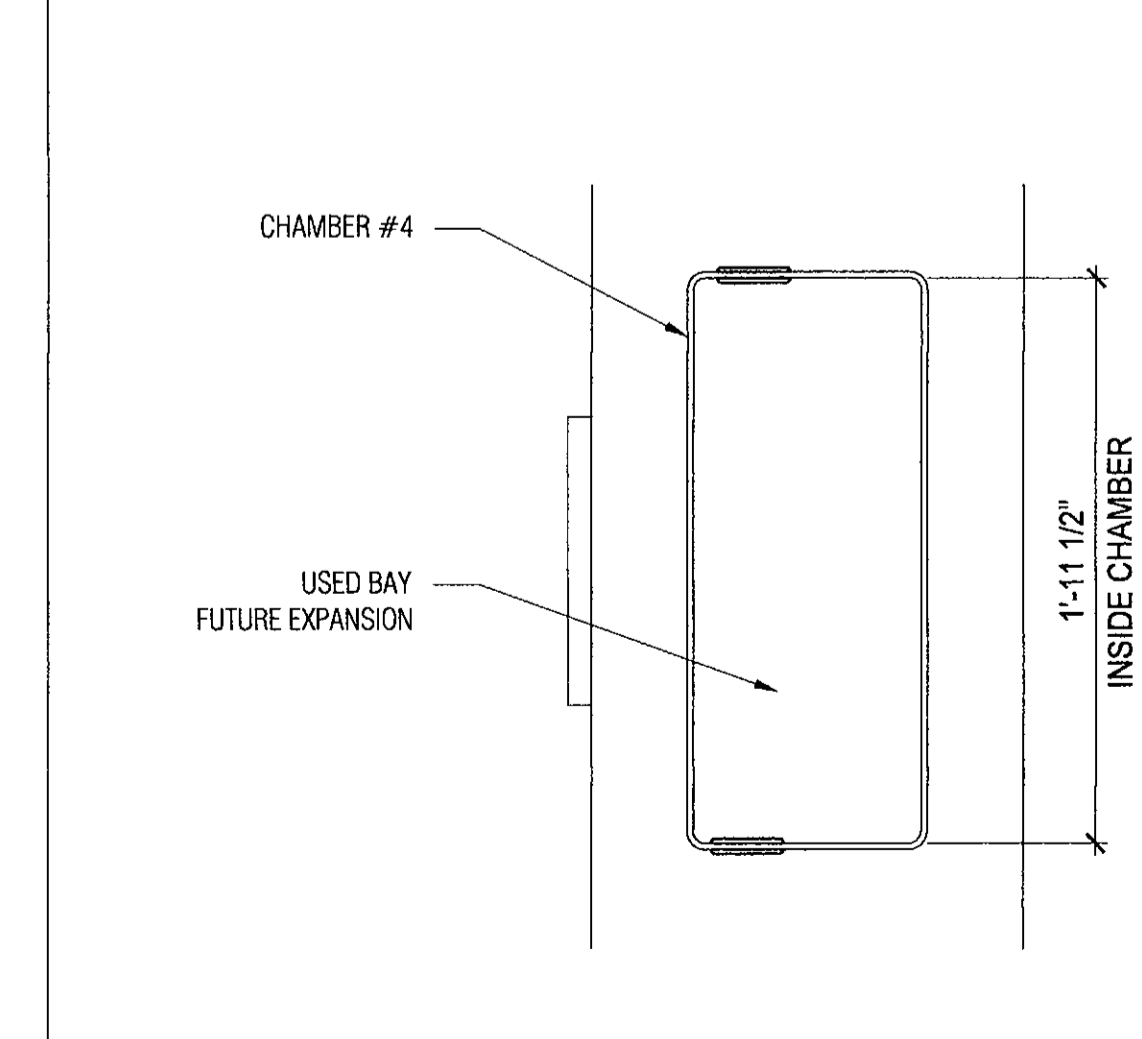
14 NOT USED



13 CHAMBER #4 COVER INSTALLED SCALE: 1/2" = 1'-0"



12 CHAMBER #4 FUTURE EXPANSION SCALE: 1/2" = 1'-0"



11 CHAMBER #4 FUTURE EXPANSION SCALE: 1/2" = 1'-0"



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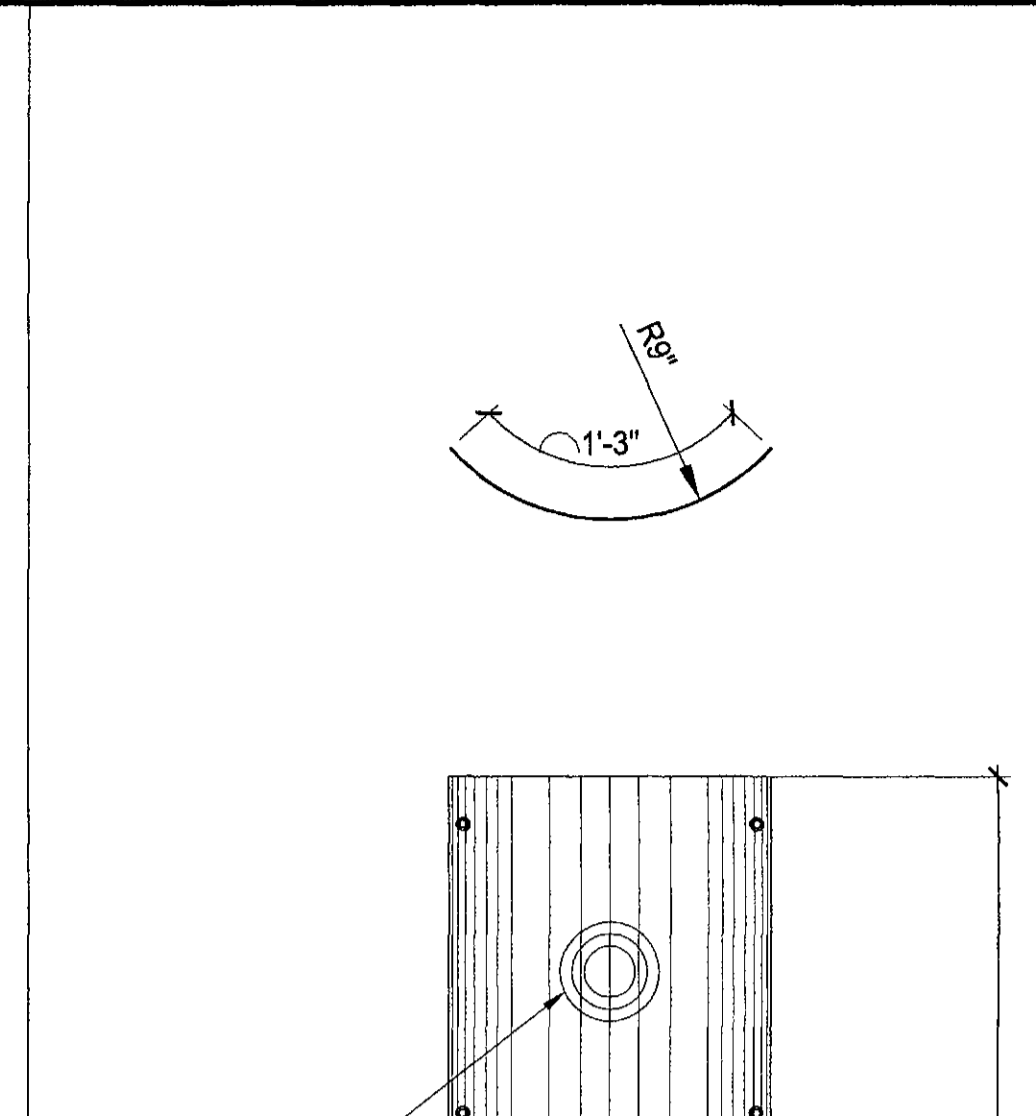
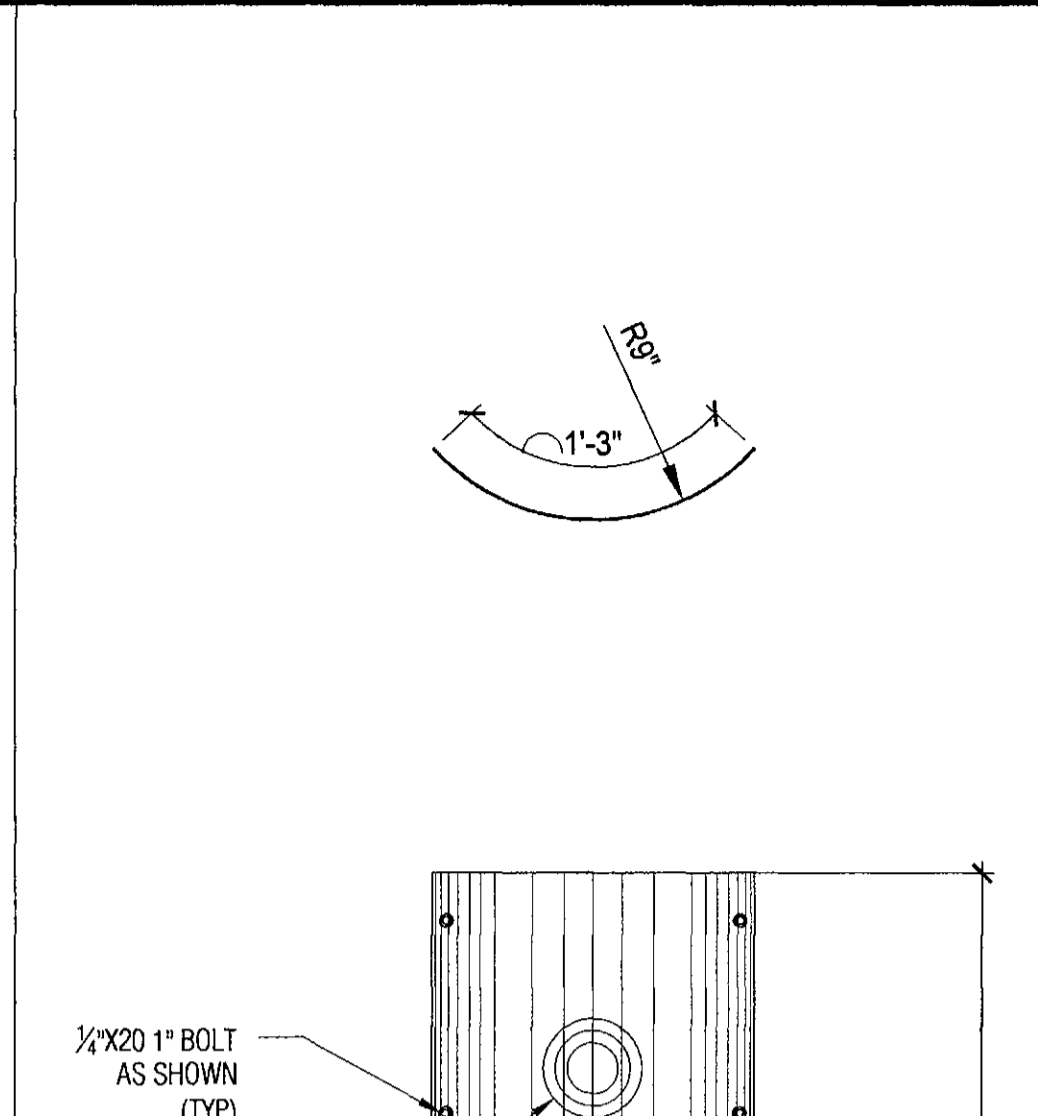
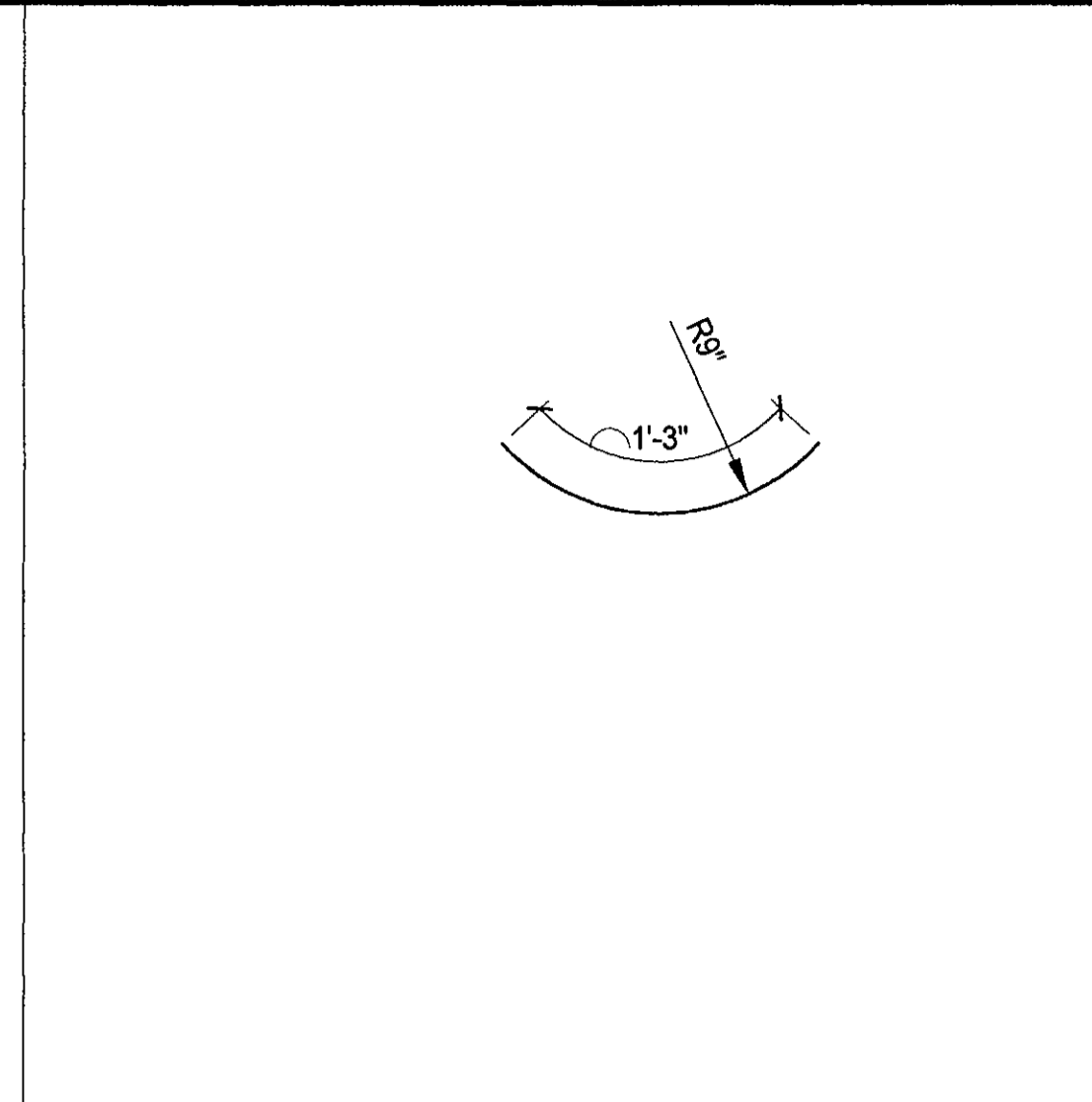
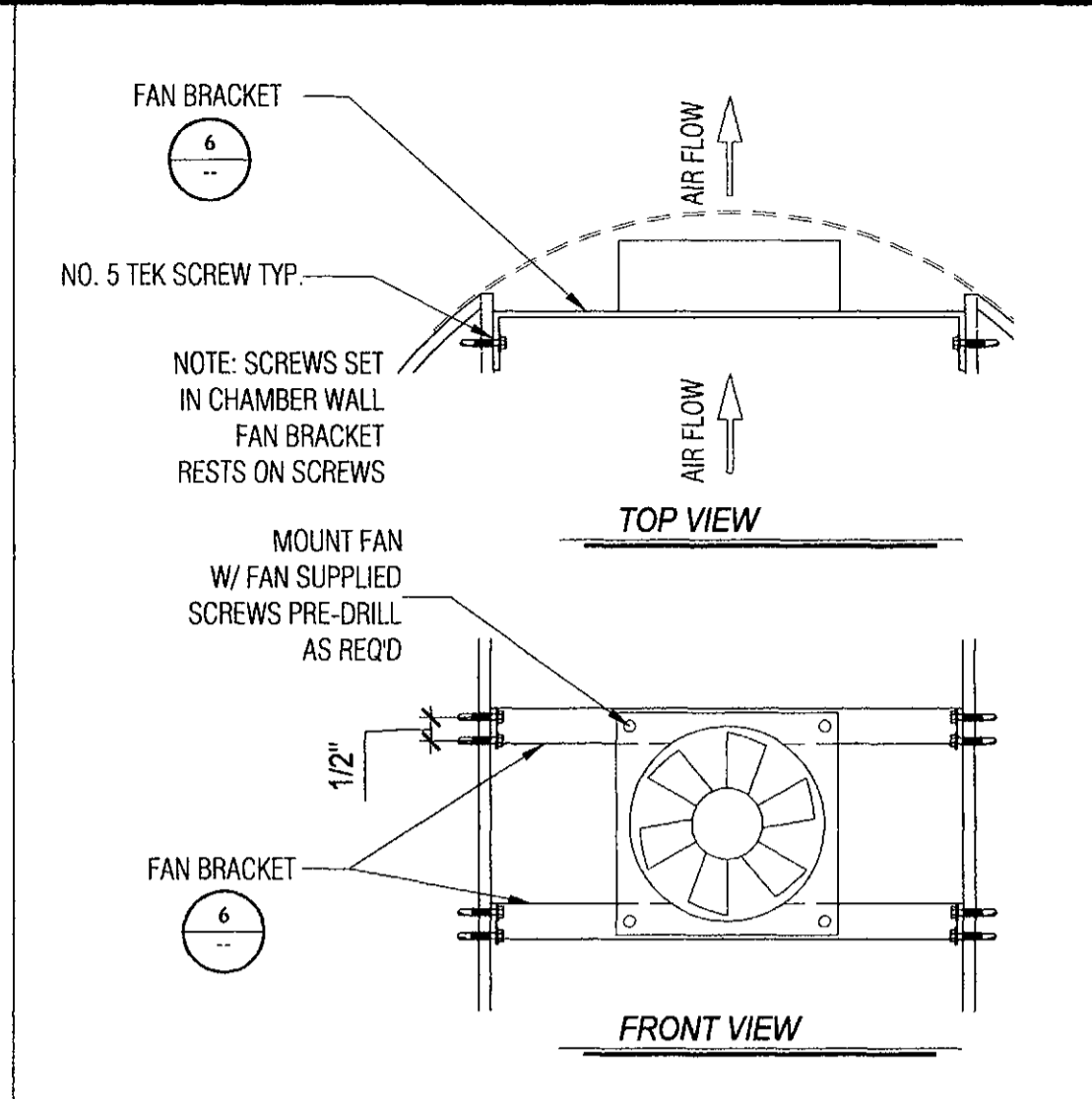
SHEET NUMBER **PF4.2** PROGRESS **9**

DRAWING DATE **October 20, 2017**



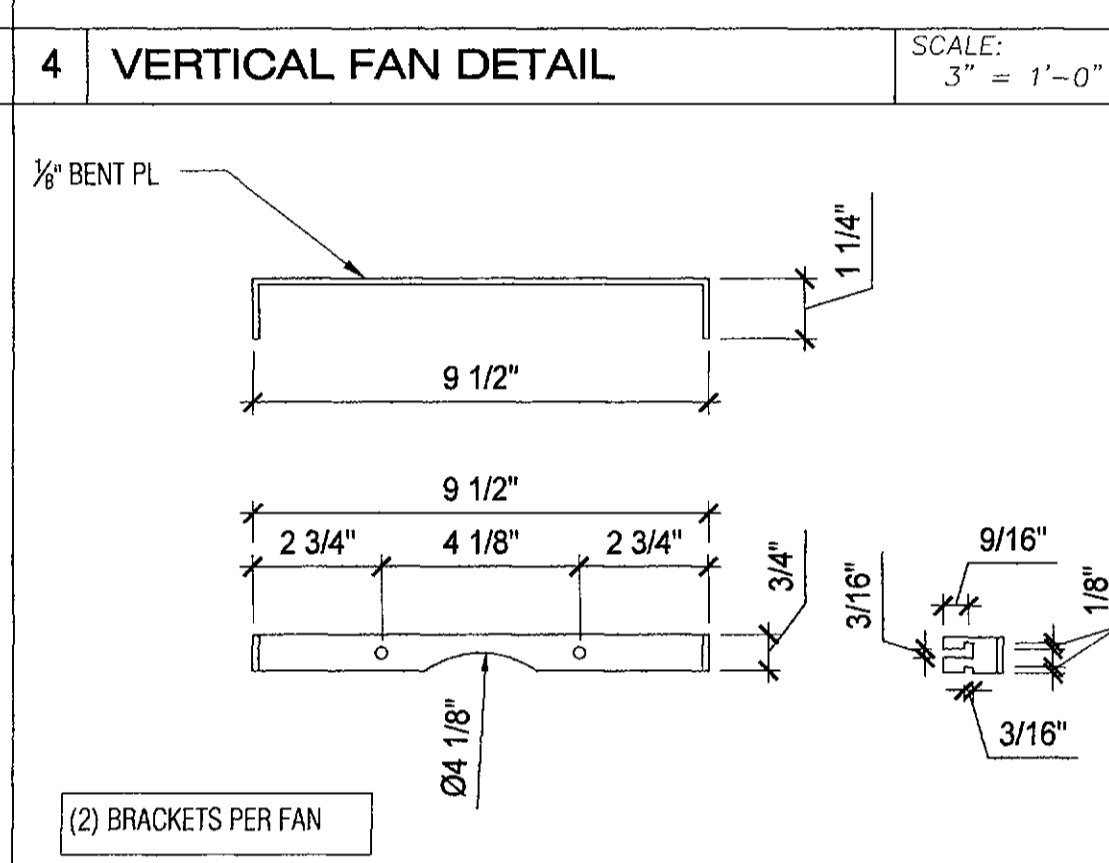
5 NOT USED

SCALE: 3" = 1'-0"



7 NOT USED

SCALE: 3" = 1'-0"



3 24" CHAMBER COVER

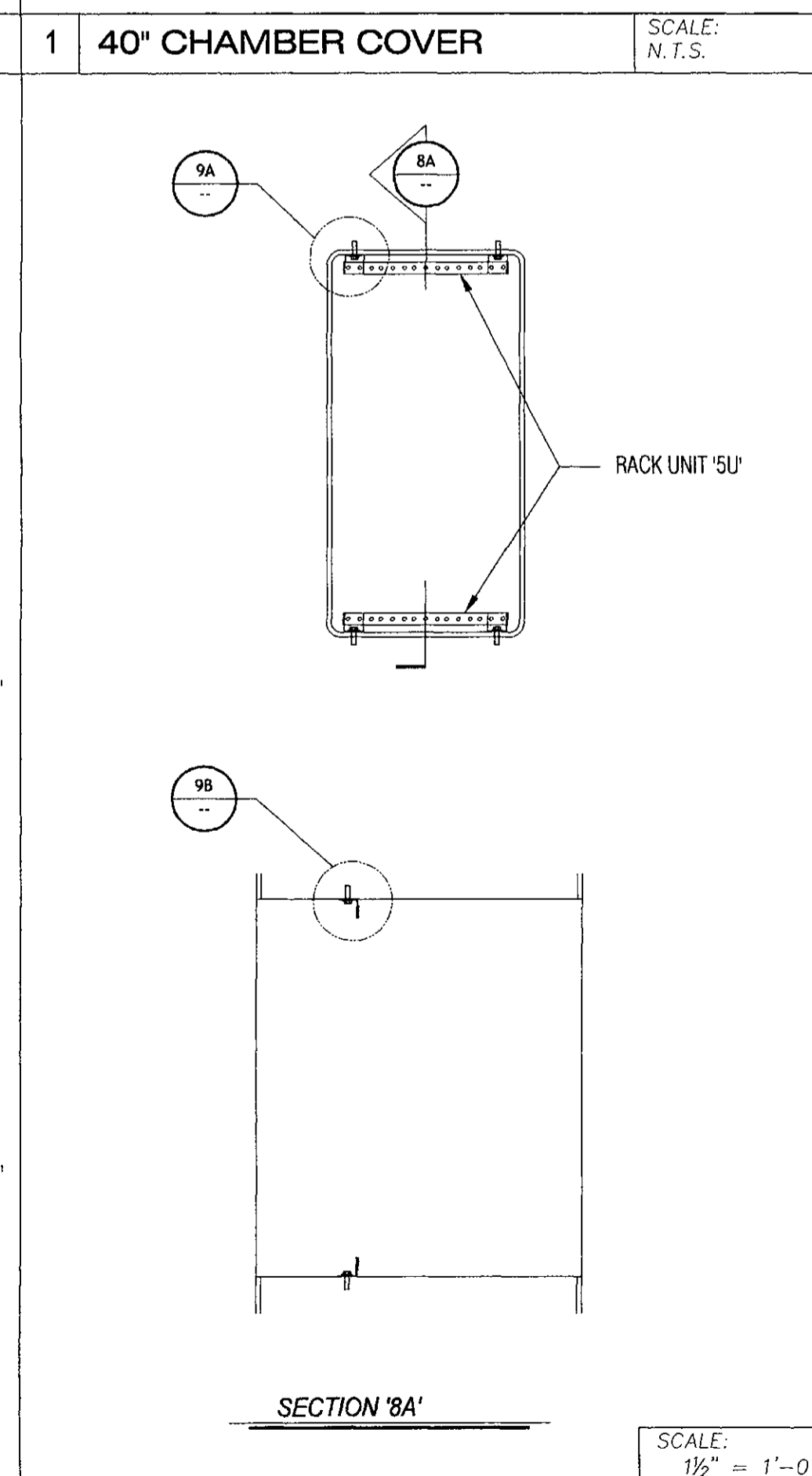
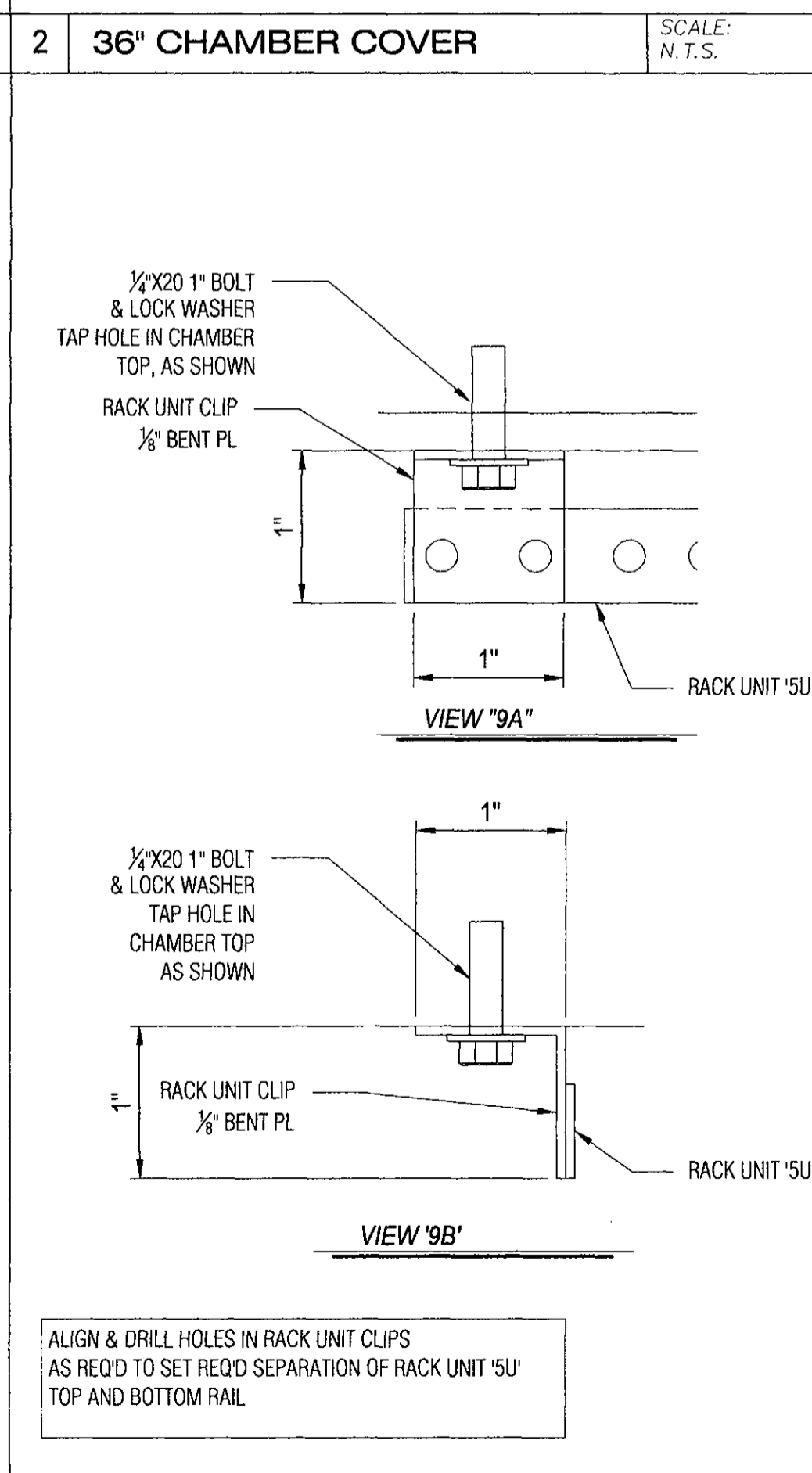
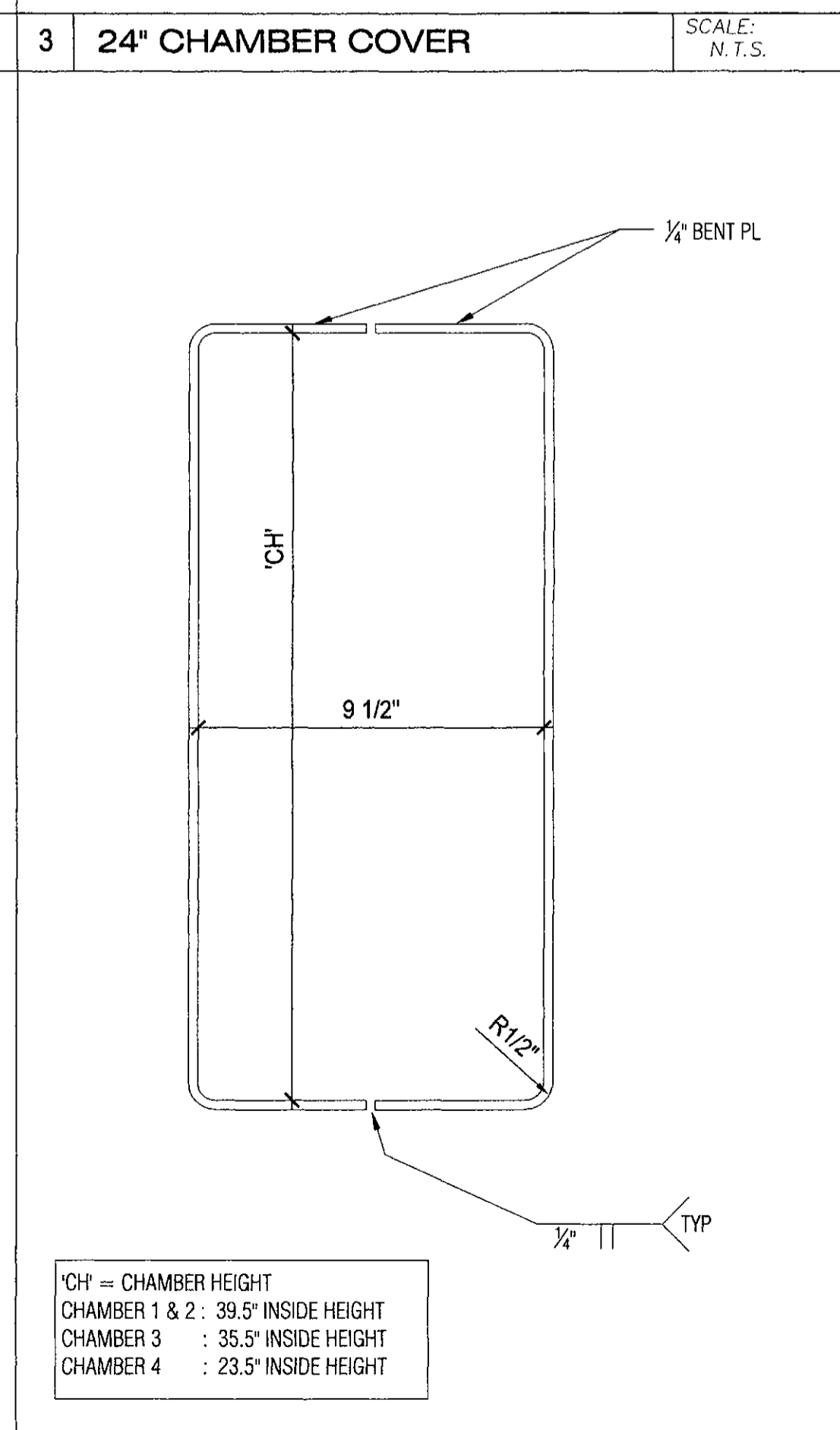
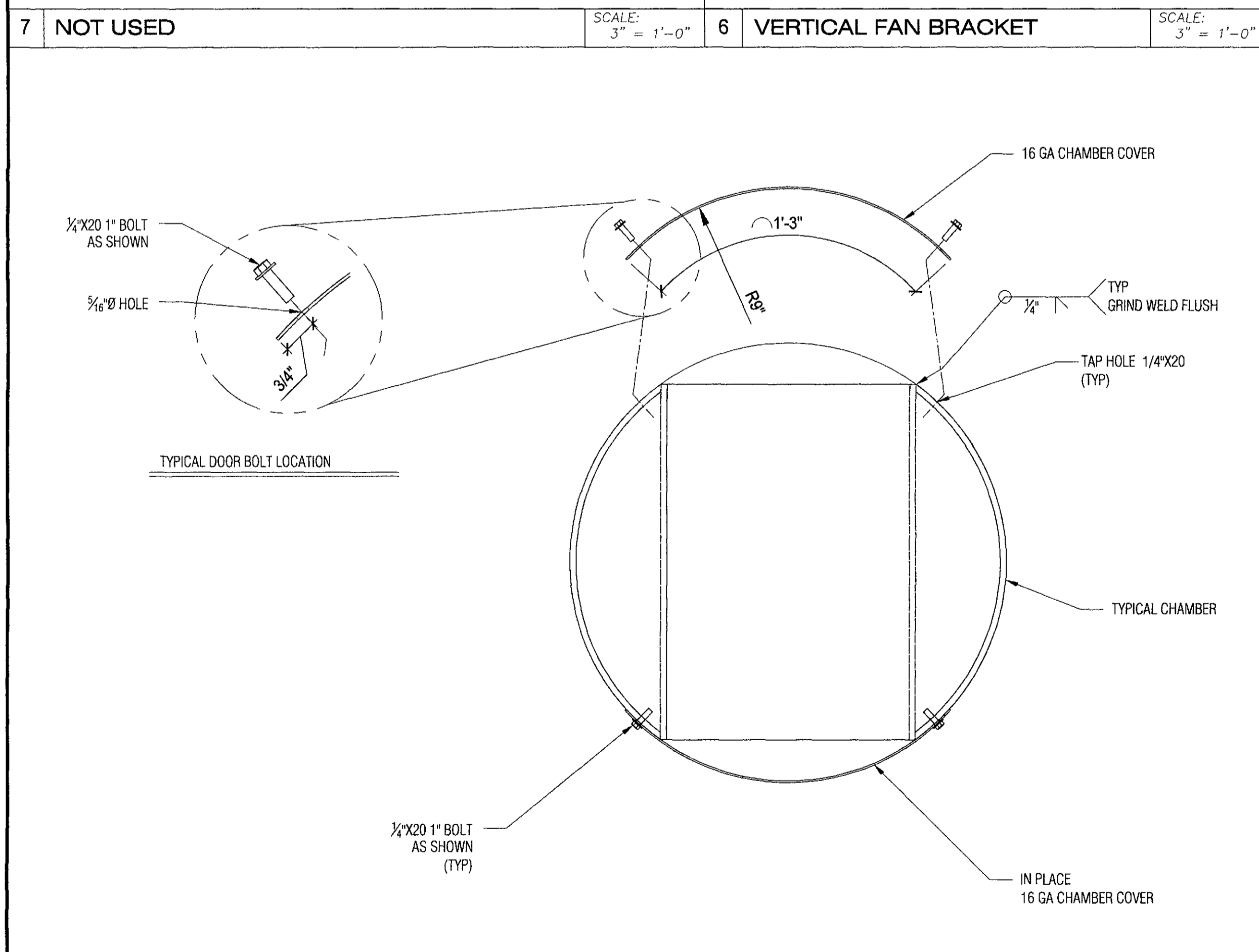
SCALE: N.T.S.

2 36" CHAMBER COVER

SCALE: N.T.S.

1 40" CHAMBER COVER

SCALE: N.T.S.



11 TYPICAL CHAMBER SECTION DETAIL

SCALE: 3" = 1'-0"

10 CHAMBER ELEVATION DETAIL

SCALE: 3" = 1'-0"

9 ENLARGED CLIP DETAIL

SCALE: 12" = 1'-0"

8 RACK UNIT '5U' MOUNTING DETAIL

SCALE: 1/2" = 1'-0"

**verizon**

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**PHO\_ZUZU-VALLEYHO\_2\_SC**  
 (SMALL CELL)

**POLE DETAILS**

SCOTTSDALE RD & MAIN ST., Scottsdale, AZ 85251

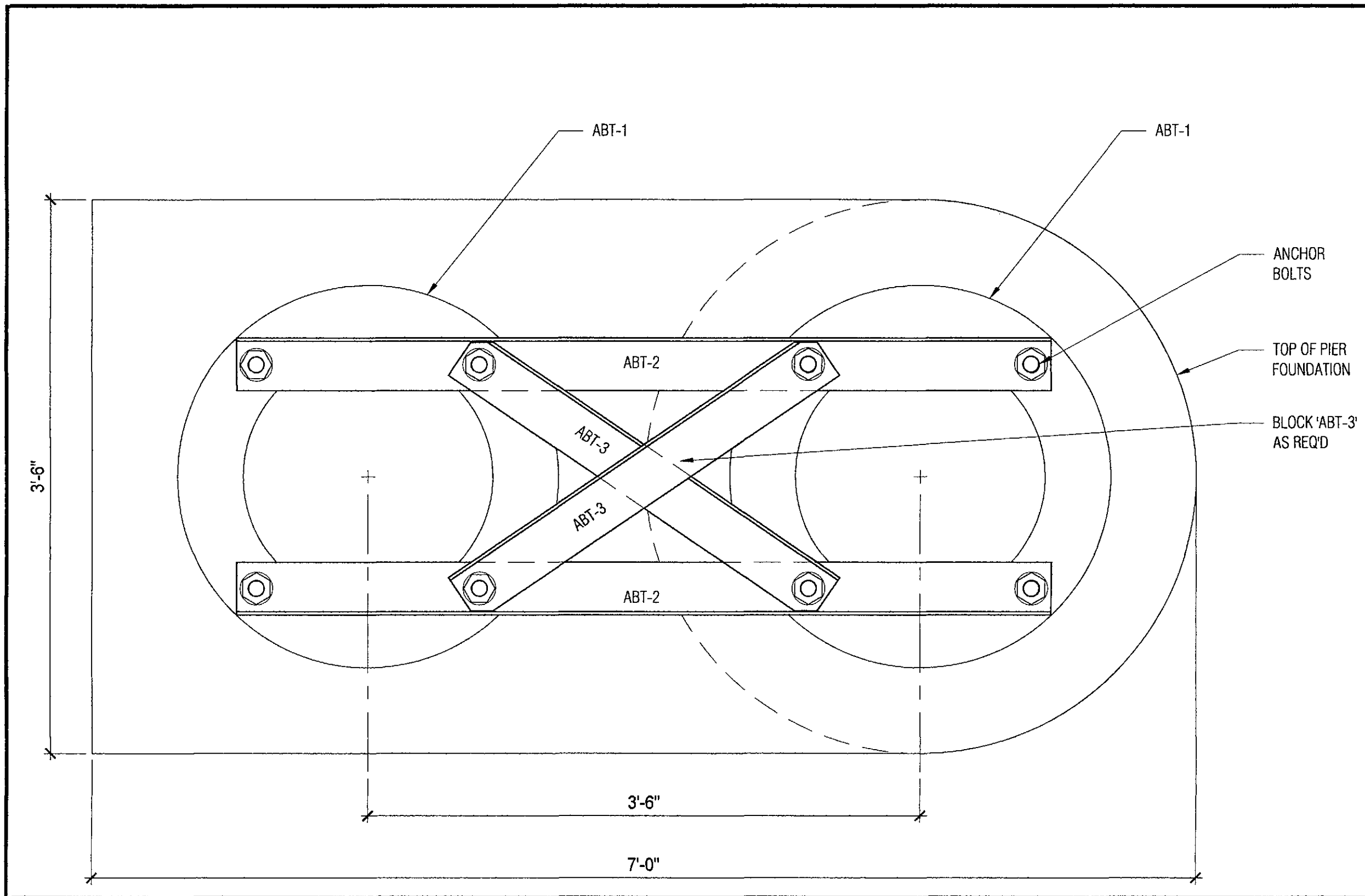
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*Glenn L. Hunt III*  
 Registered Professional Engineer  
 License No. 52229  
 State of Arizona  
 Exp. 10/20/2017

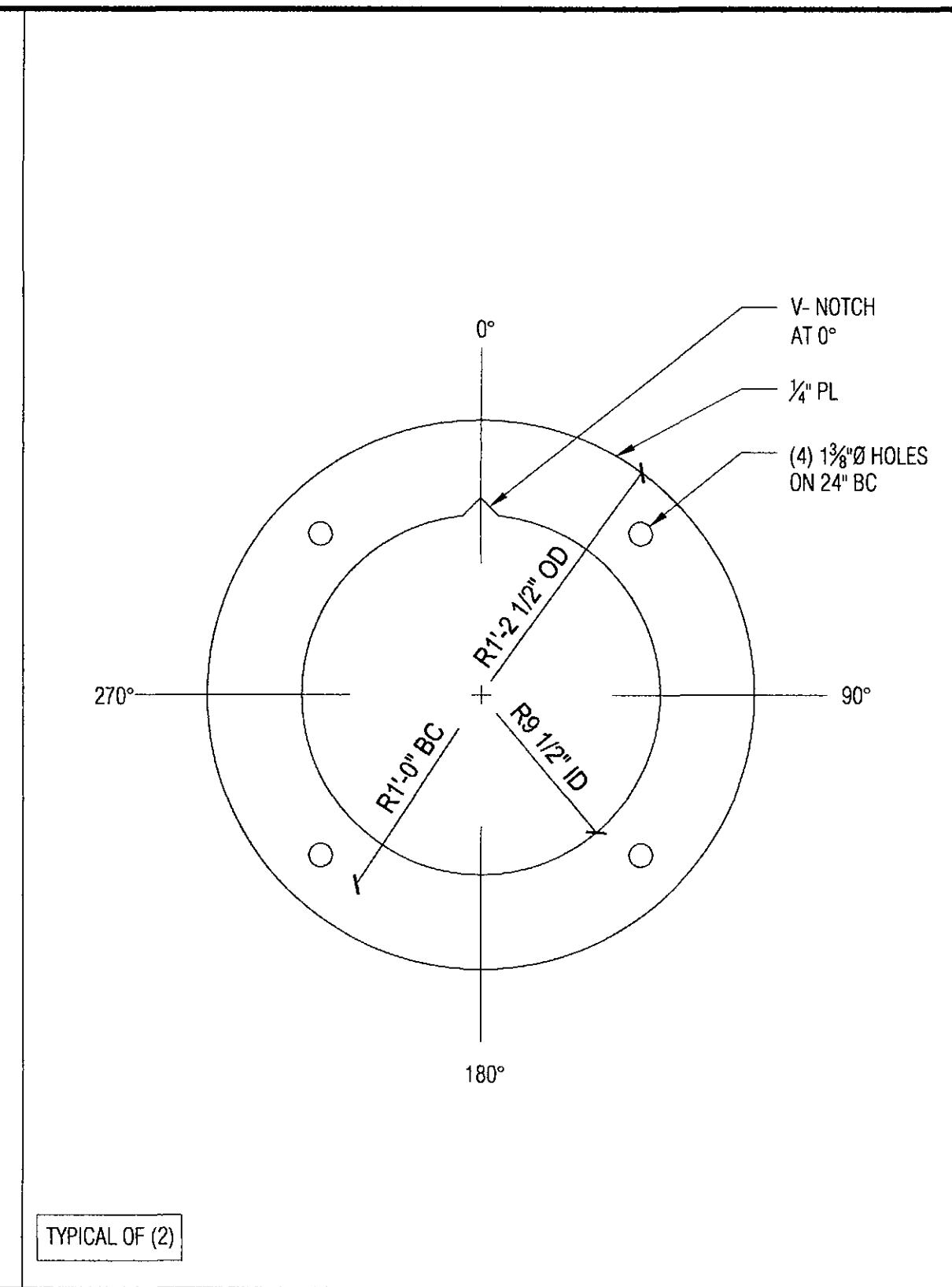
PROGRESS LOG		
9	10/20/17	Code Update MG
8	09/18/17	Client Changes MG
7	01.31.17	Client Comments MG
6	11.28.26	Client Comments MG
5	11.23.26	Added Milbanks Pedestal MG
4	6/22/16	Vent Cover Change AG

SHEET NUMBER	PROGRESS
PF4.3	9

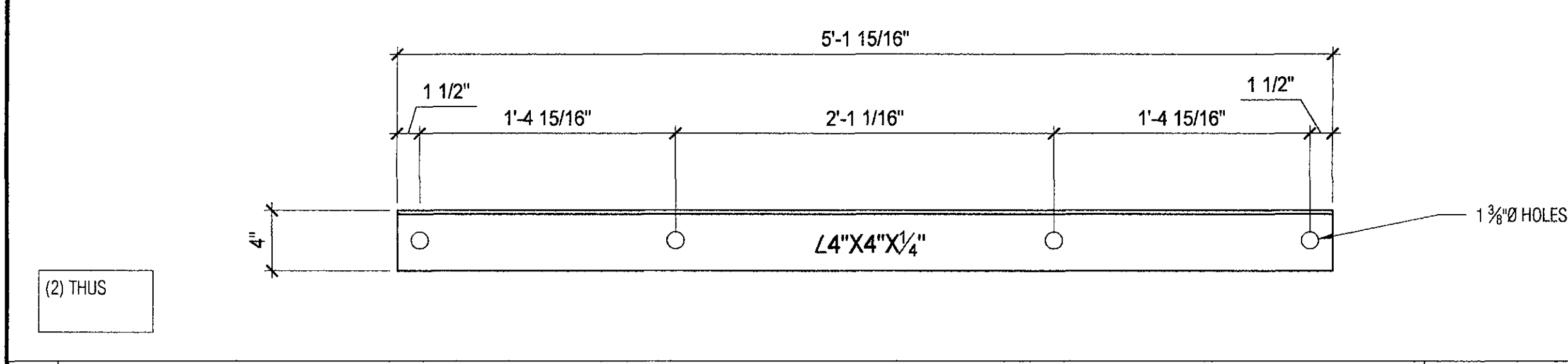
DRAWING DATE  
 October 20, 2017



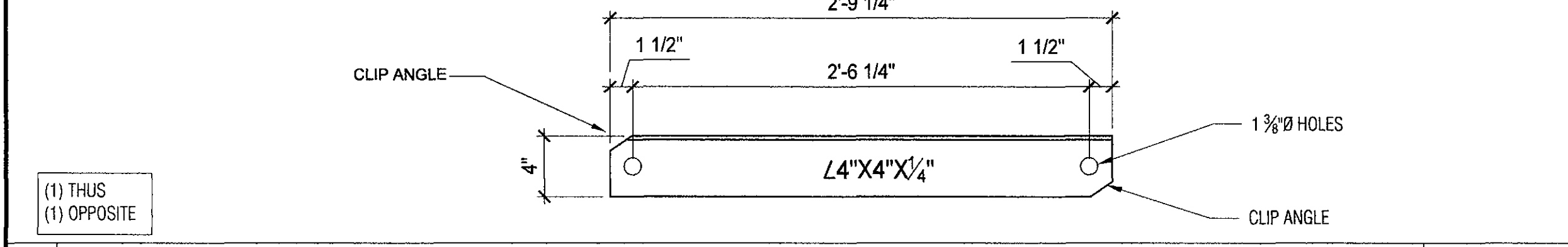
7 ANCHOR BOLT TEMPLATE LAYOUT SCALE: 1/2" = 1'-0"



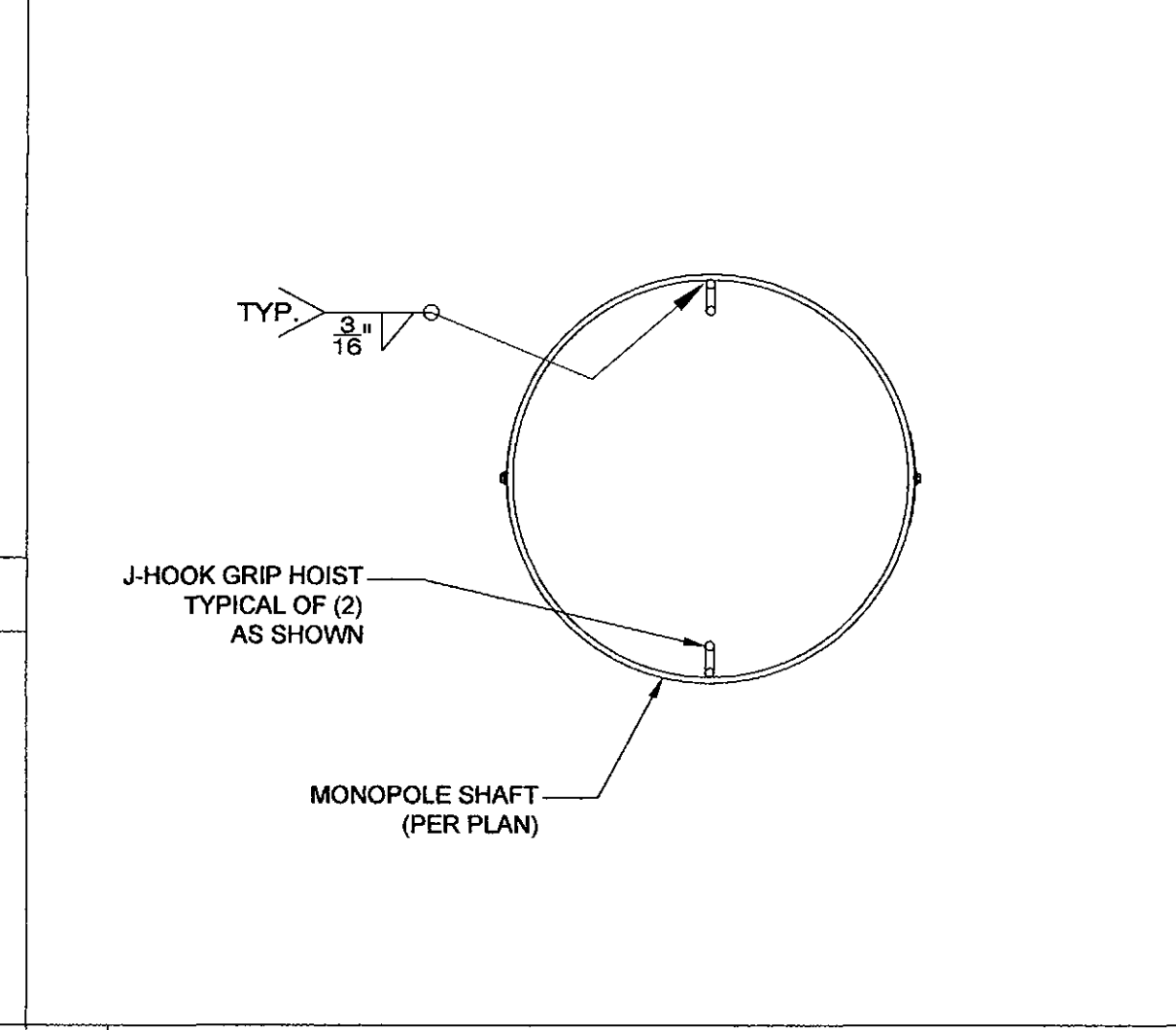
4 ANCHOR BOLT TEMPLATE (ABT-1) SCALE: 1/2" = 1'-0"



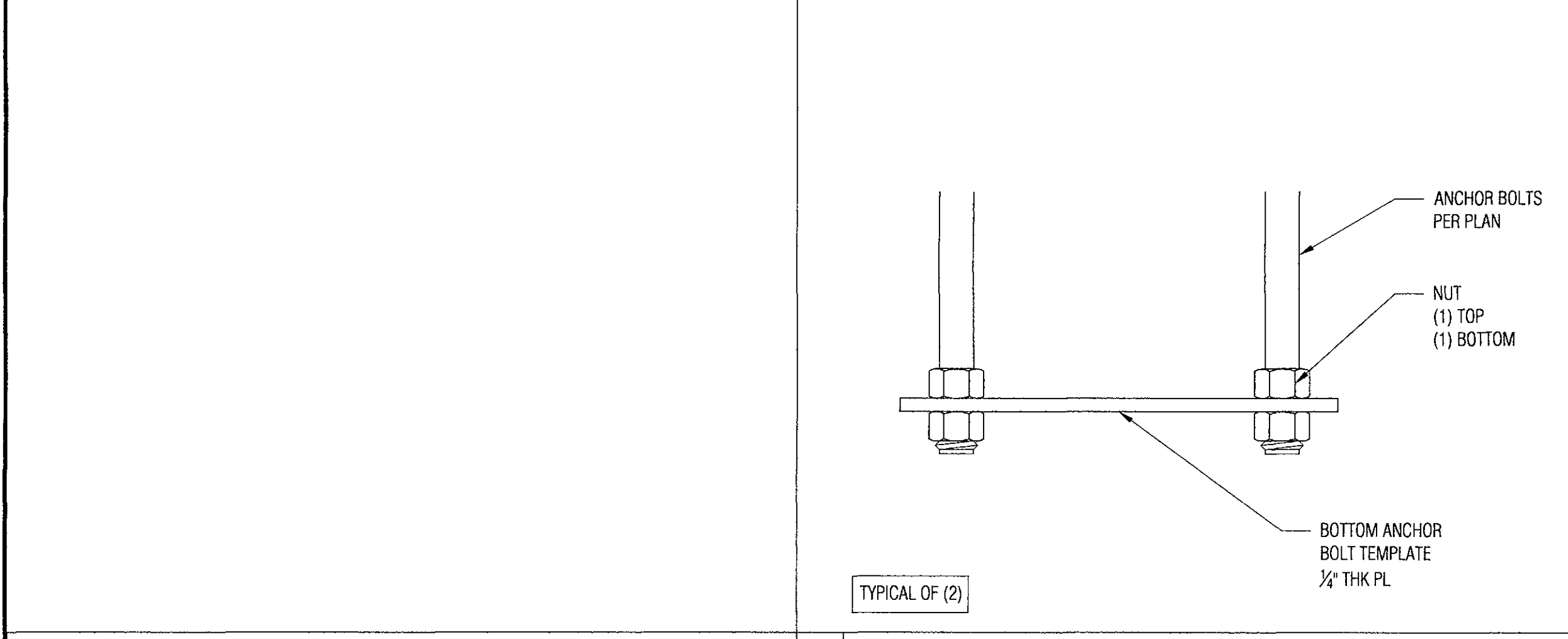
8 ABT-2 SCALE: 1/2" = 1'-0"



9 ABT-3 SCALE: 1/2" = 1'-0"



5 J-HOOK INSIDE POLE AT COAX PORTS SCALE: N.T.S.



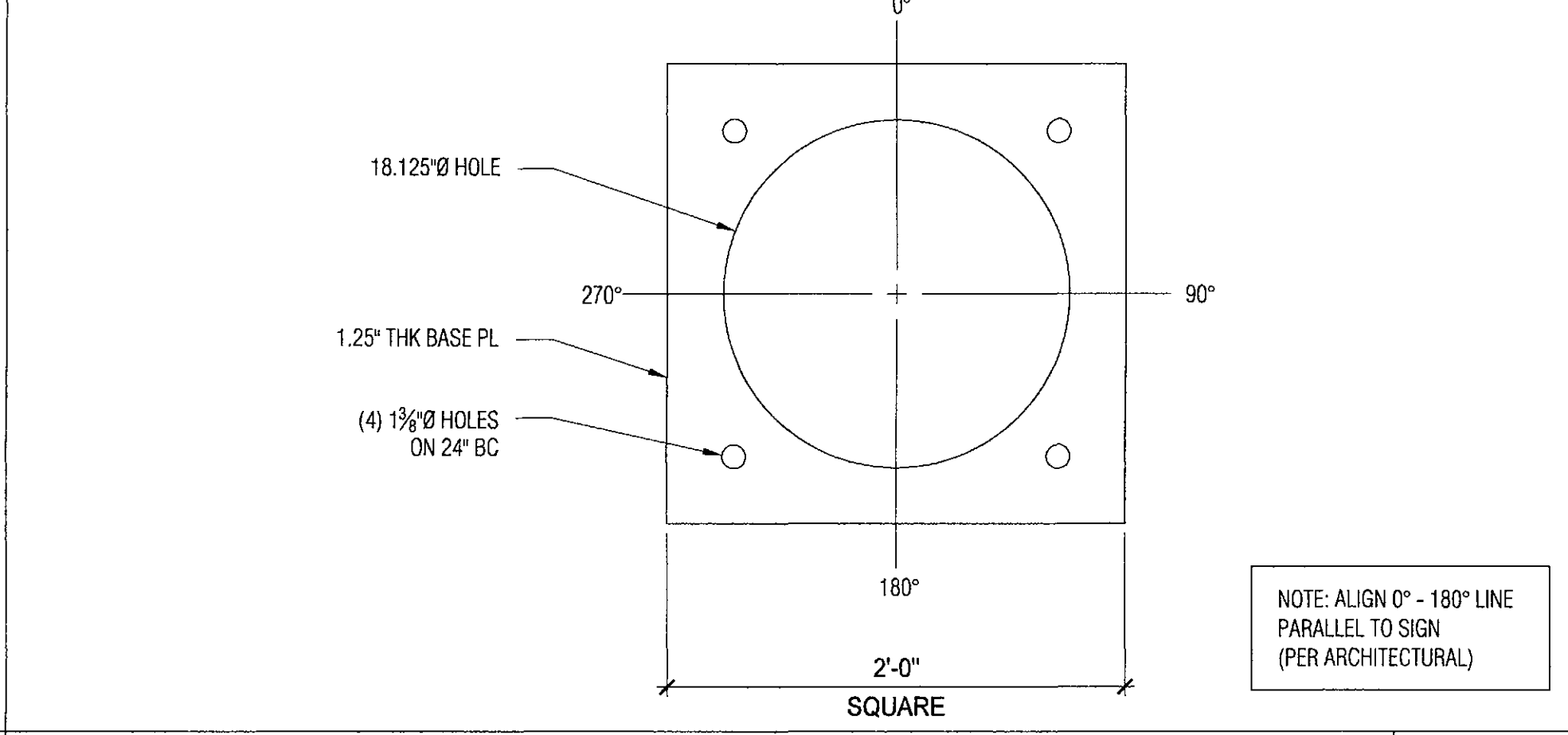
6 BOTTOM ANCHOR BOLT TEMPLATE SCALE: 1/2" = 1'-0"

**COAX HAND/ACCESS HOLE SCHEDULE**

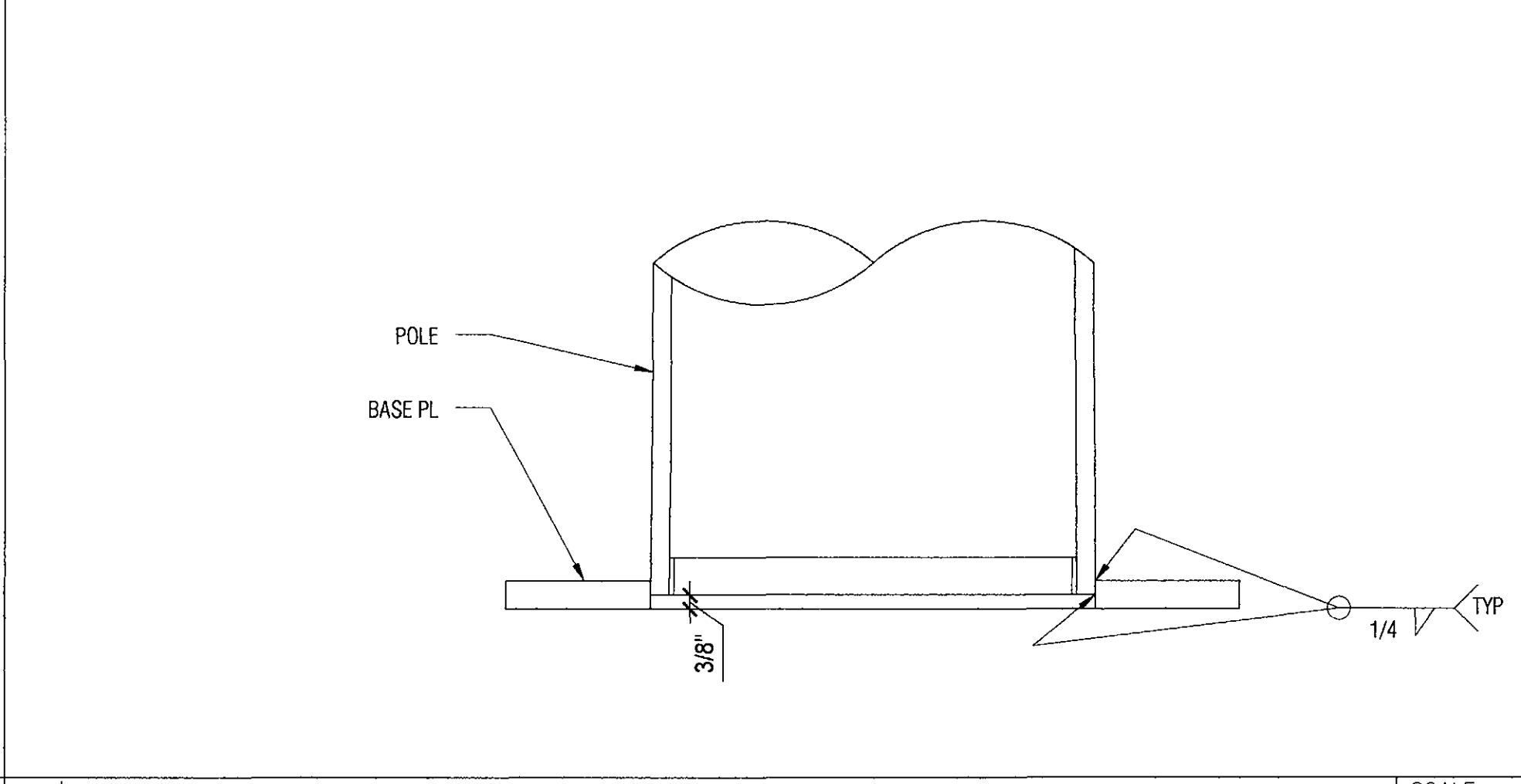
ELEV (AFG)	QTY	W (IN)	H (IN)	*ANGLE	D1 (IN)	D2 (IN)	Tf (IN)
24'-0"	2	4	6	90°, 270°	NO FRAME (DETAILS 1C & 1D)		
17'-0"	2	4	6	90°, 270°	NO FRAME (DETAILS 1C & 1D)		
2'-0"	1	6	12	180°	1 1/2	2 1/2	3/8

\* ANGLE IS MEASURED CLOCKWISE FROM 0° AS SHOWN ON BASE PLATE

1 COAX HAND HOLE DETAILS SCALE: N.T.S.



2 BASE PL DETAIL SCALE: N.T.S.



3 POLE/BASE PLATE CONNECTION SCALE: N.T.S.



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POLE DETAILS AND  
ANCHOR BOLT TEMPLATE

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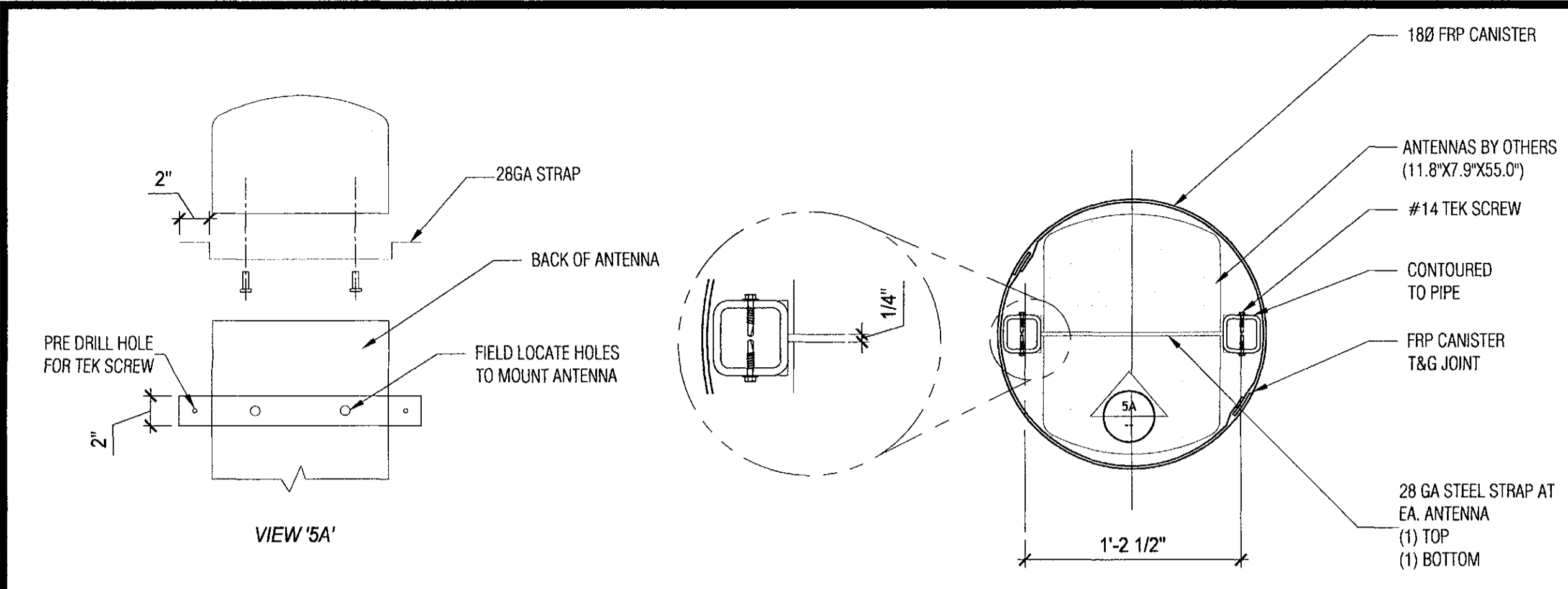


**PROGRESS LOG**

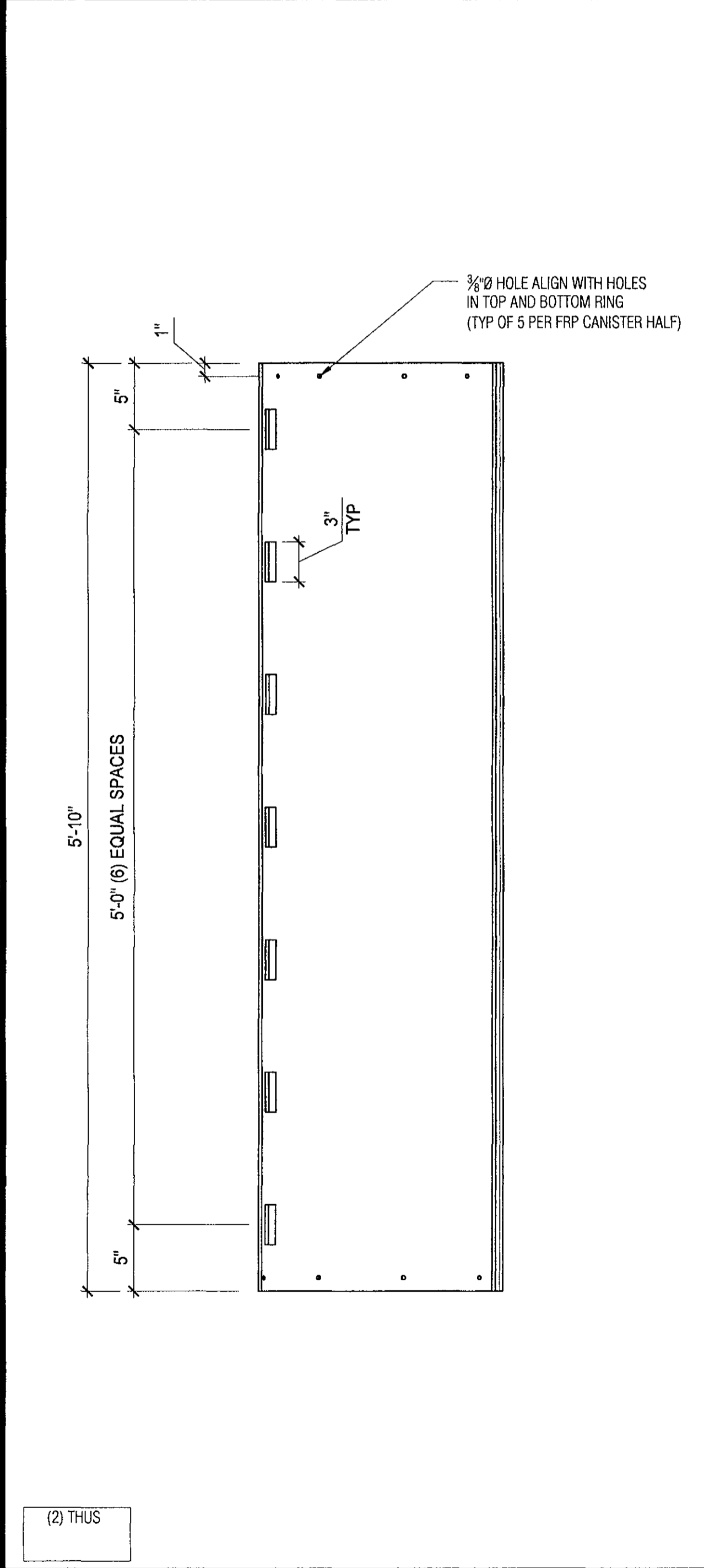
Date	Description	By
9/10/20/17	Code Update	MG
8/09/18/17	Client Changes	MG
7/01.31.17	Client Comments	MG
6/11.28.26	Client Comments	MG
5/11.23.26	Added Milbanks Pedestal	MG
4/6/22/16	Vent Cover Change	AG

SHEET NUMBER: PF5.0  
PROGRESS: 9

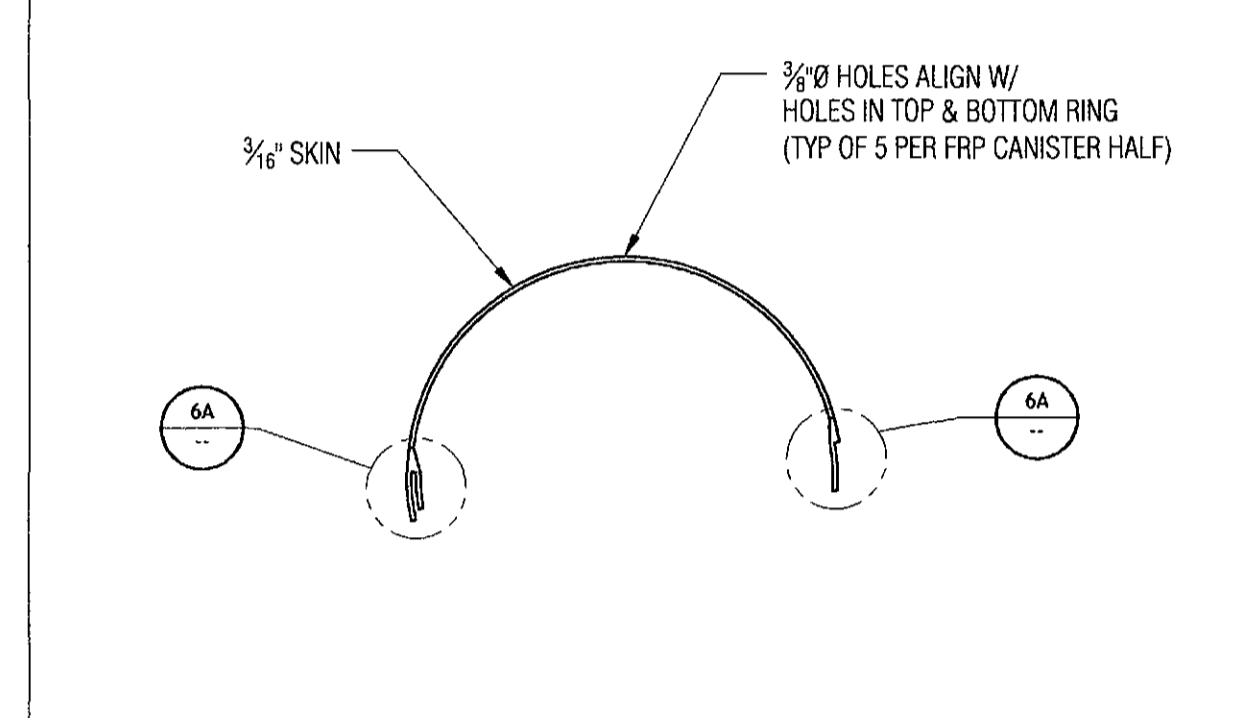
DRAWING DATE: October 20, 2017



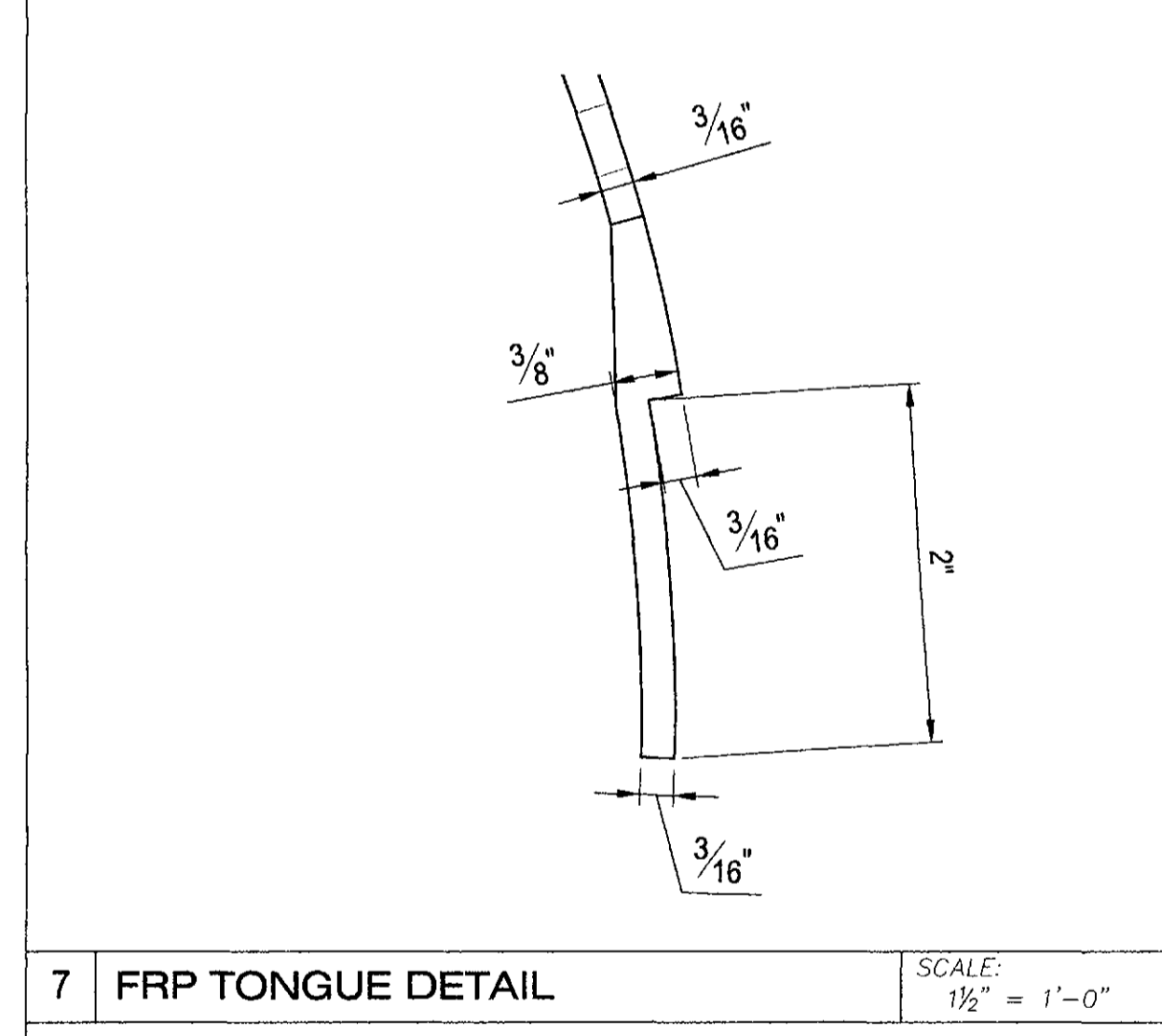
5 ANTENNA MOUNT SECTION SCALE: 1/2" = 1'-0"



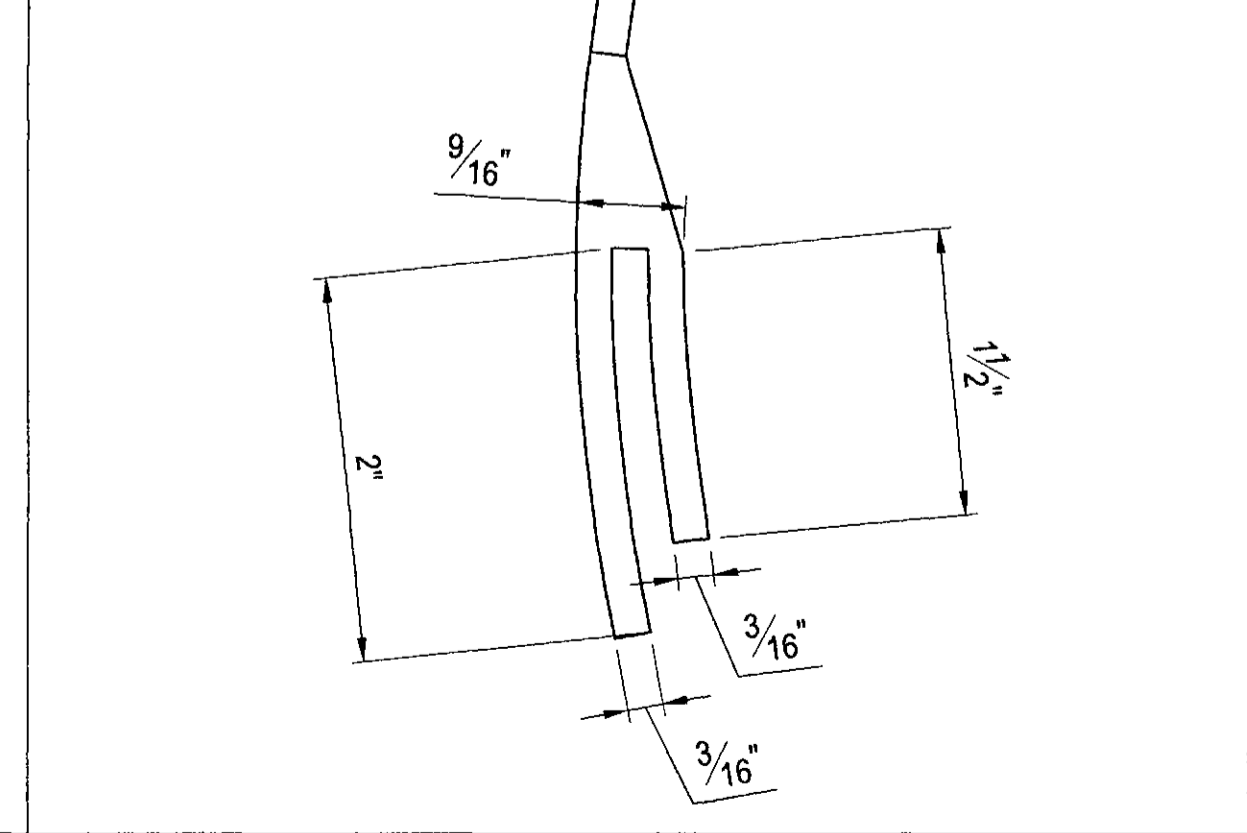
6 FRP CANISTER SCALE: 1/2" = 1'-0"



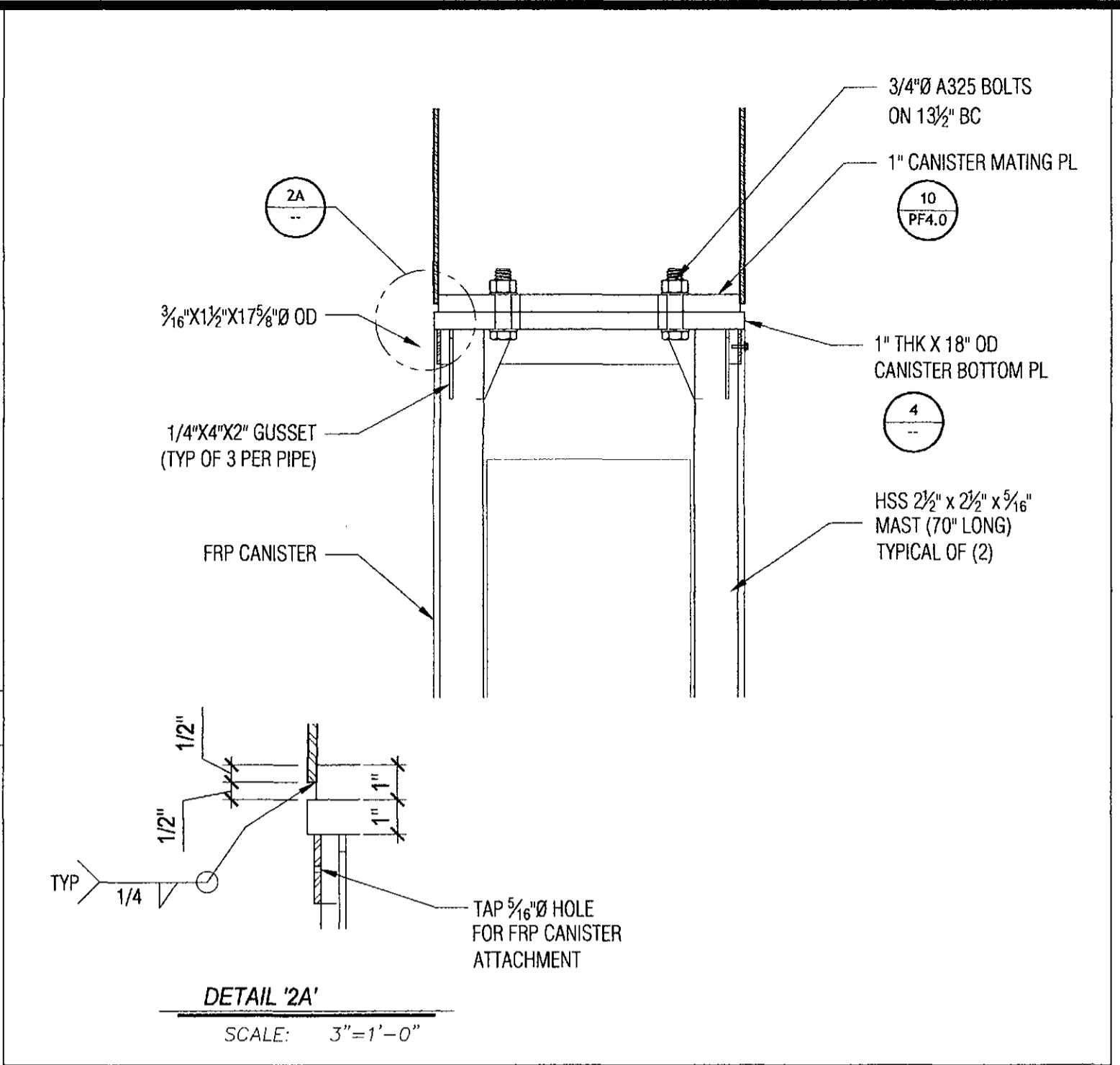
6 FRP CANISTER HALF - TOP VIEW SCALE: 1/2" = 1'-0"



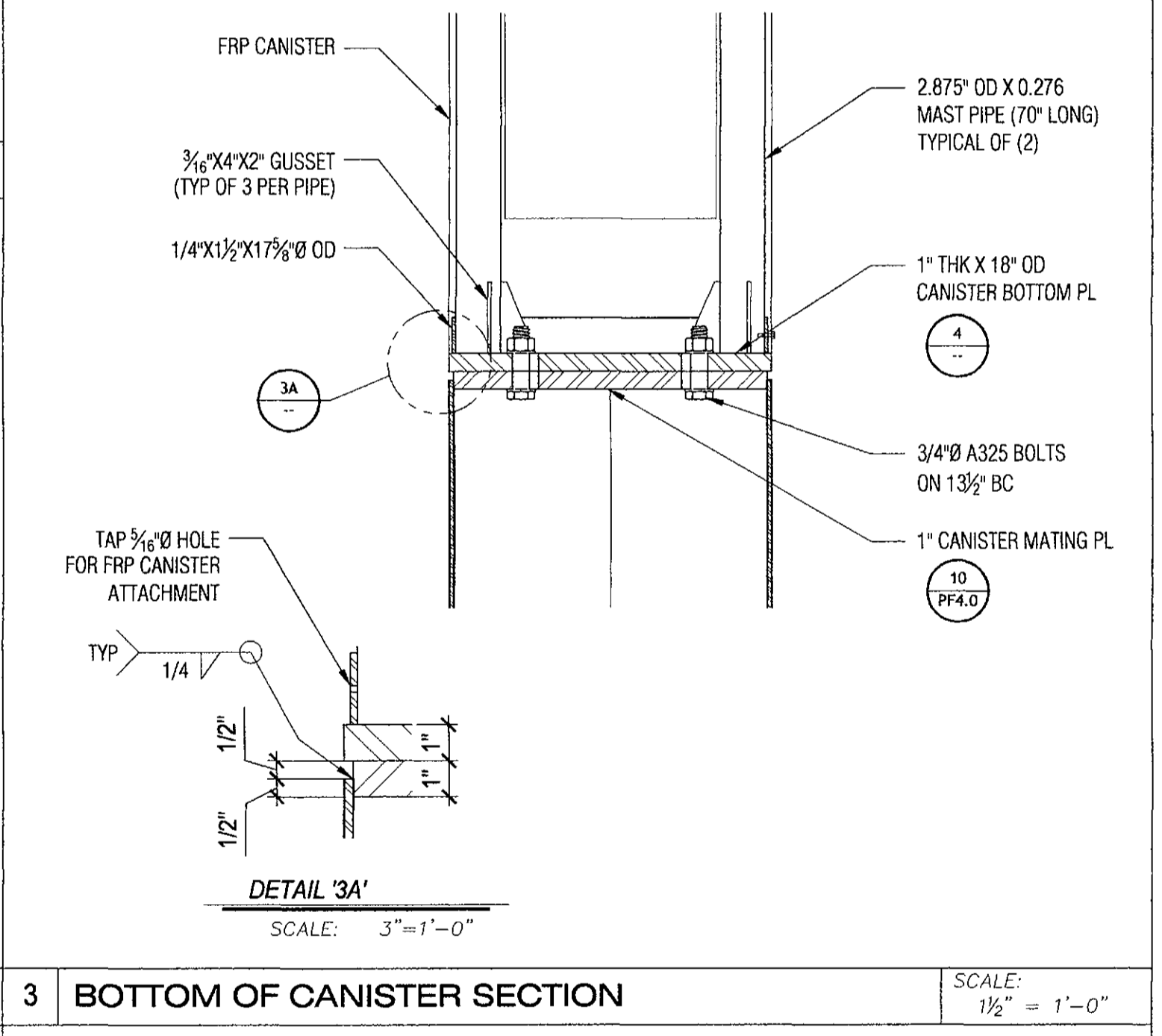
7 FRP TONGUE DETAIL SCALE: 1/2" = 1'-0"



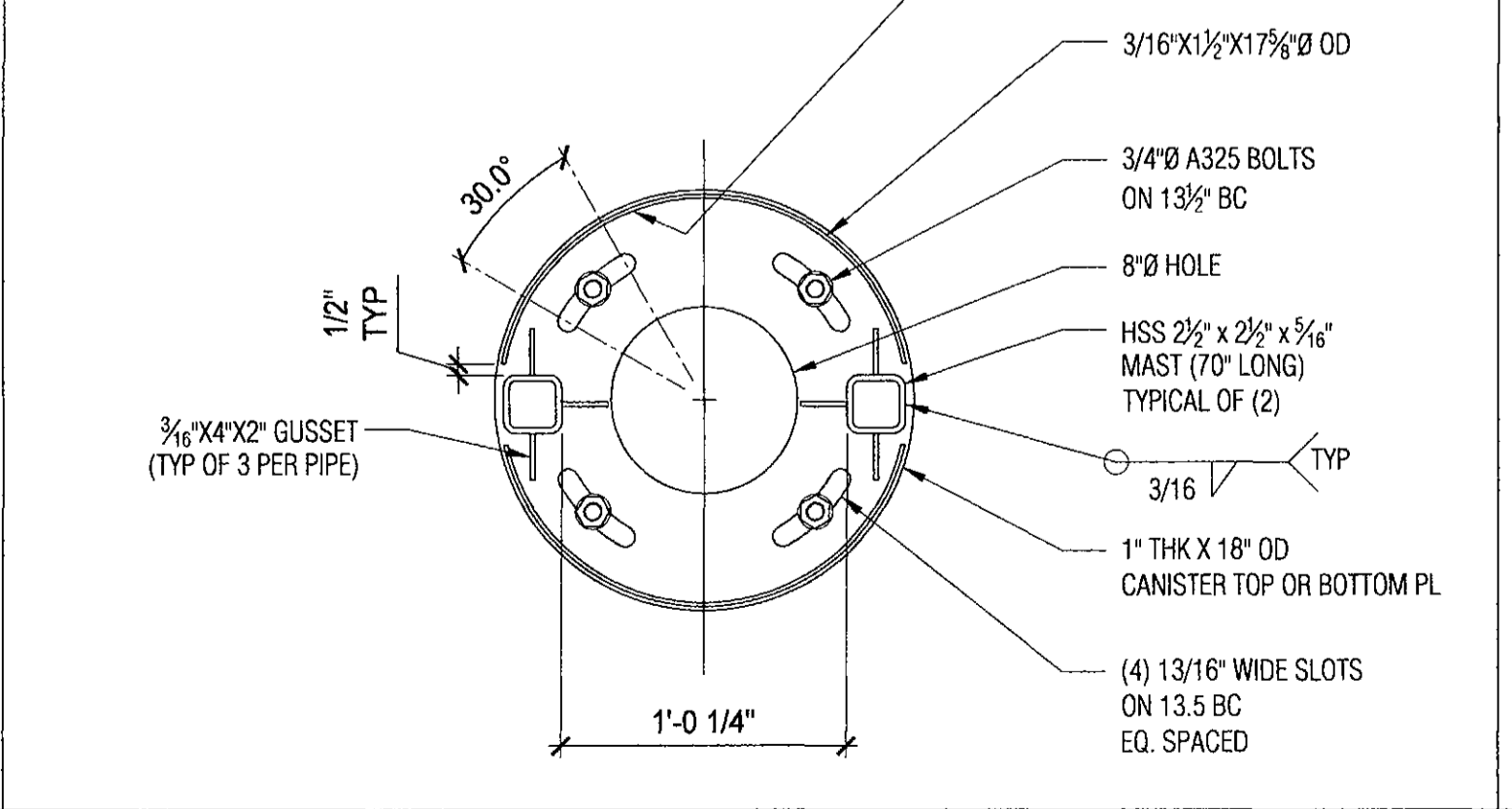
8 FRP GROOVE DETAIL SCALE: 1/2" = 1'-0"



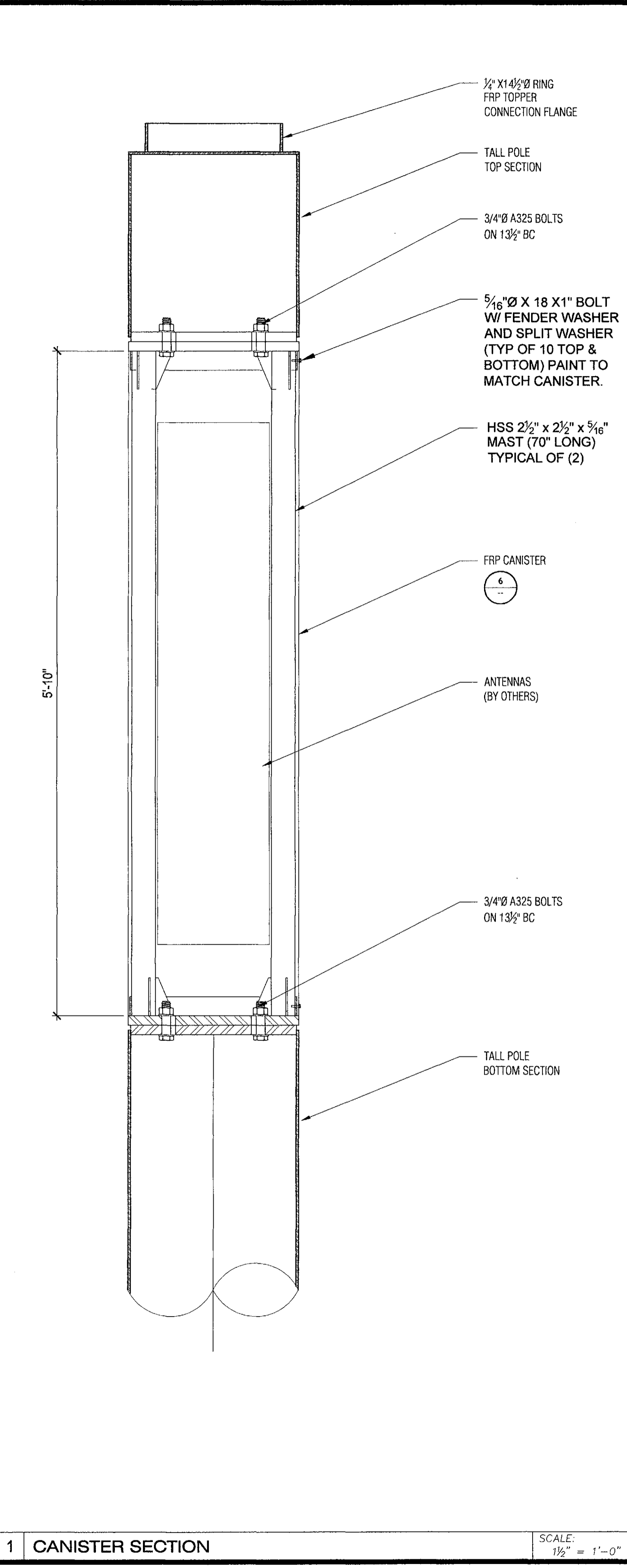
2 TOP OF CANISTER SECTION SCALE: 1/2" = 1'-0"



3 BOTTOM OF CANISTER SECTION SCALE: 1/2" = 1'-0"



4 CANISTER TOP OR BOTTOM FLANGE PL SCALE: 1/2" = 1'-0"



1 CANISTER SECTION SCALE: 1/2" = 1'-0"



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**(SMALL CELL)**  
**CANISTER DETAILS**  
SCOTTSDALE RD & MAIN ST., Scottsdale, AZ 85251

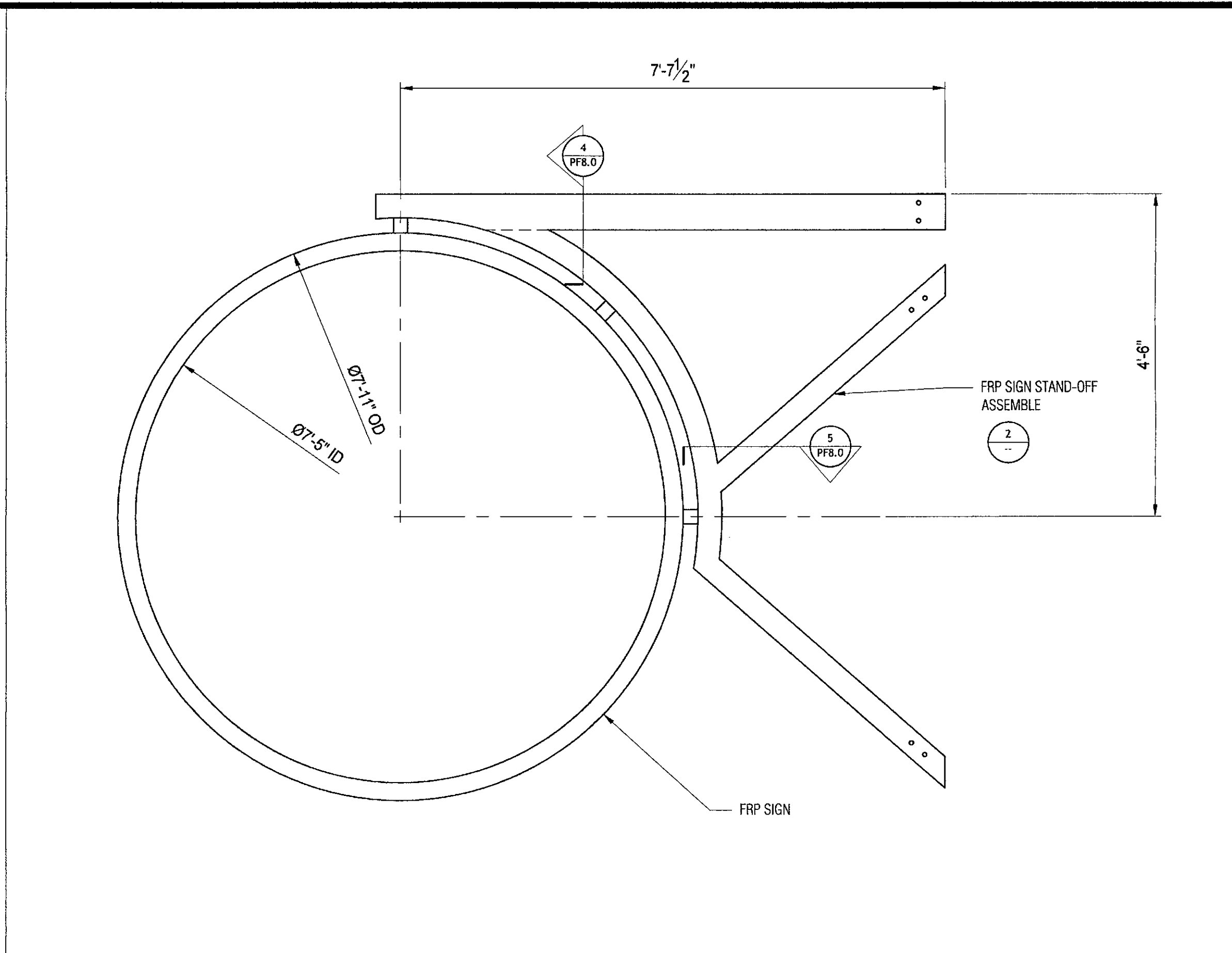
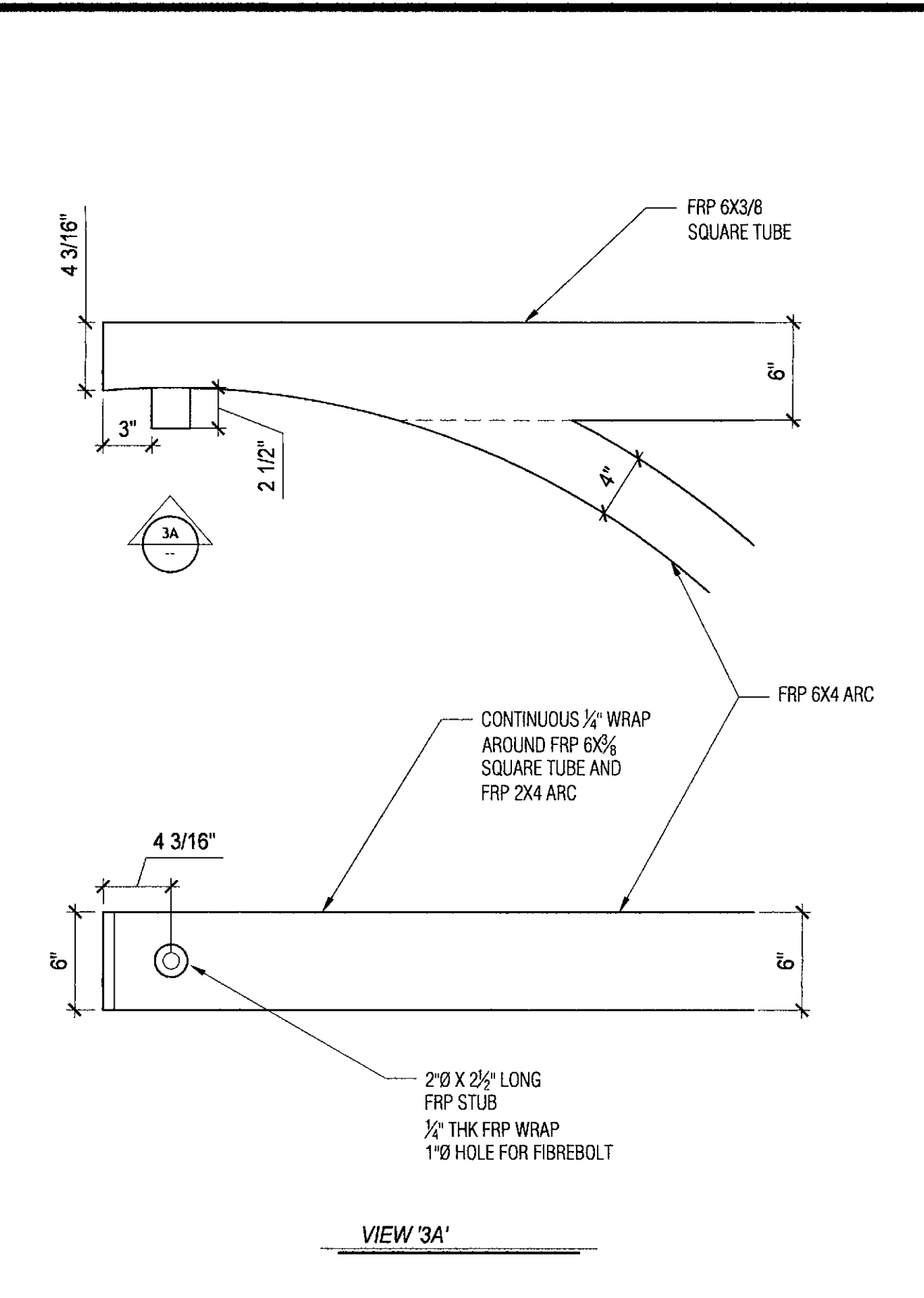
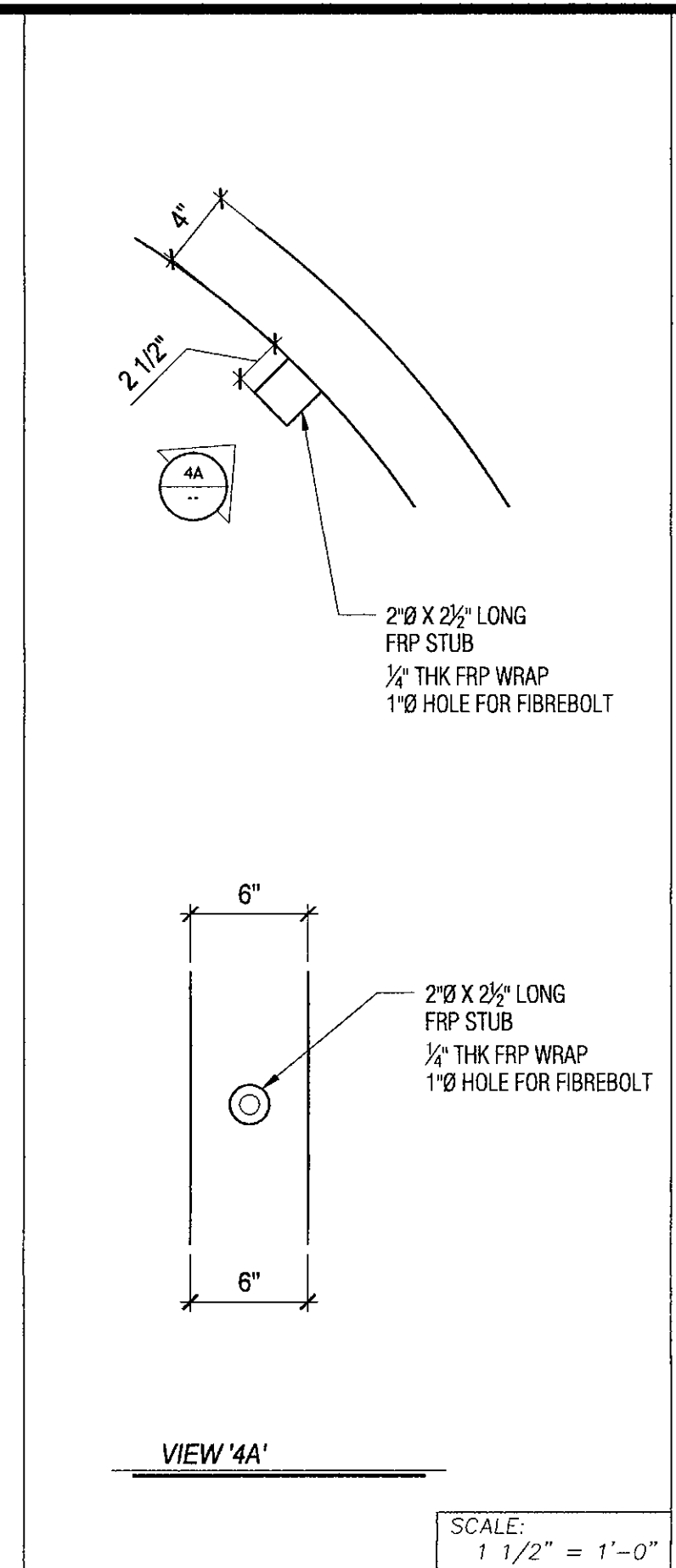
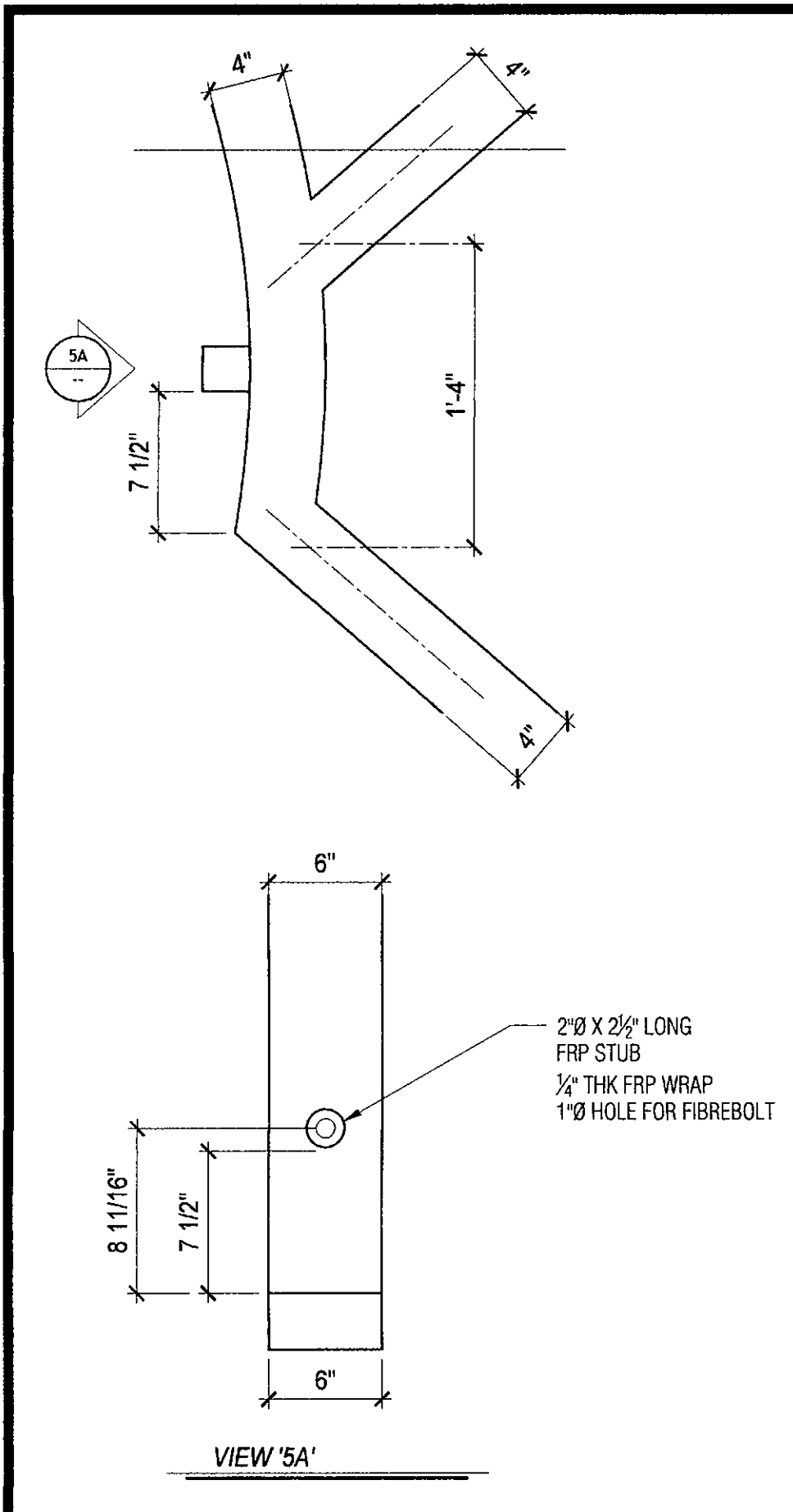
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PROGRESS LOG		
9	10/20/17	Code Update MG
8	09/18/17	Client Changes MG
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5	11.23.26	Added Milbanks Pedestal MG
4	6/22/16	Vent Cover Change AG

SHEET NUMBER **PF6.0** PROGRESS **9**  
DRAWING DATE **October 20, 2017**



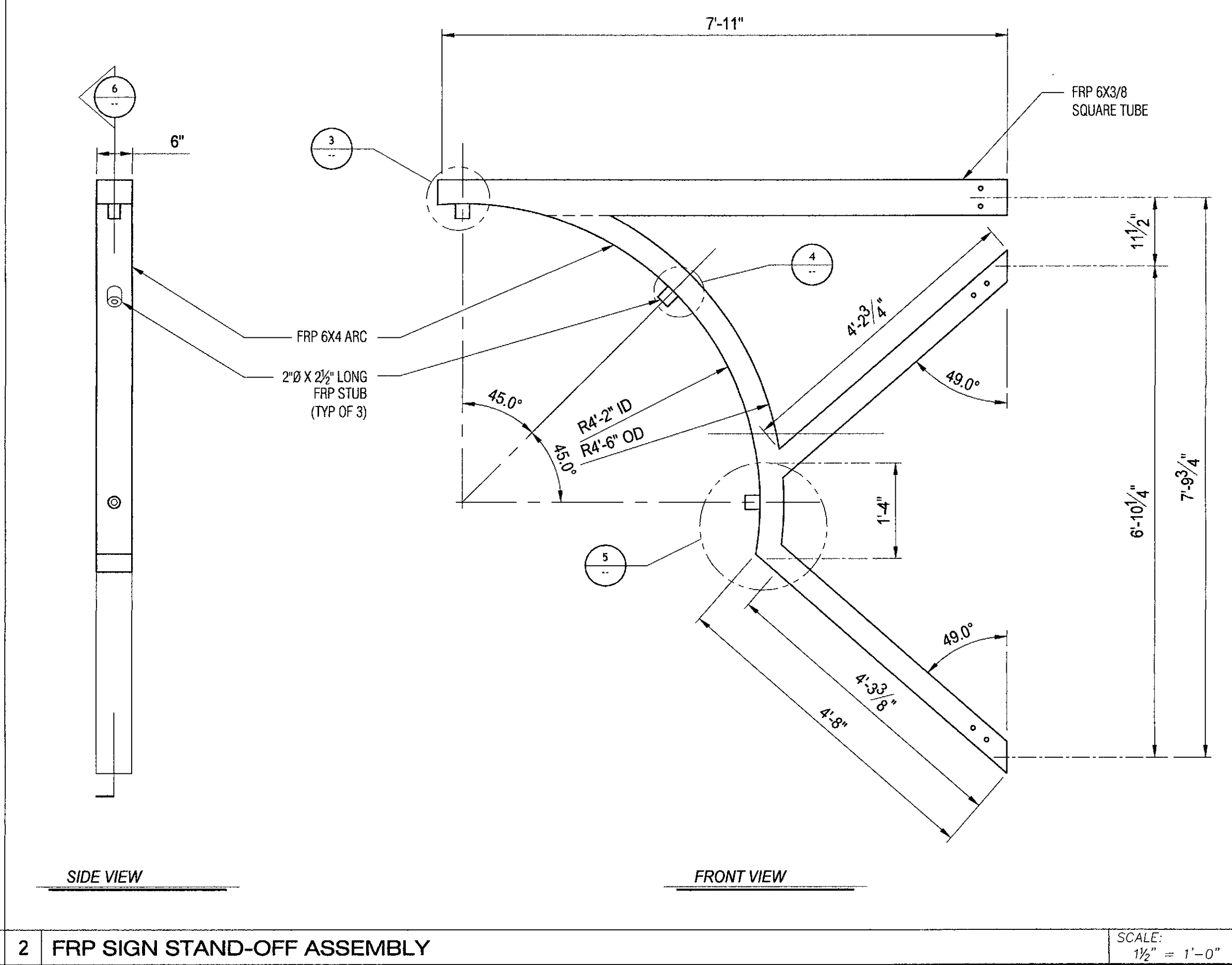
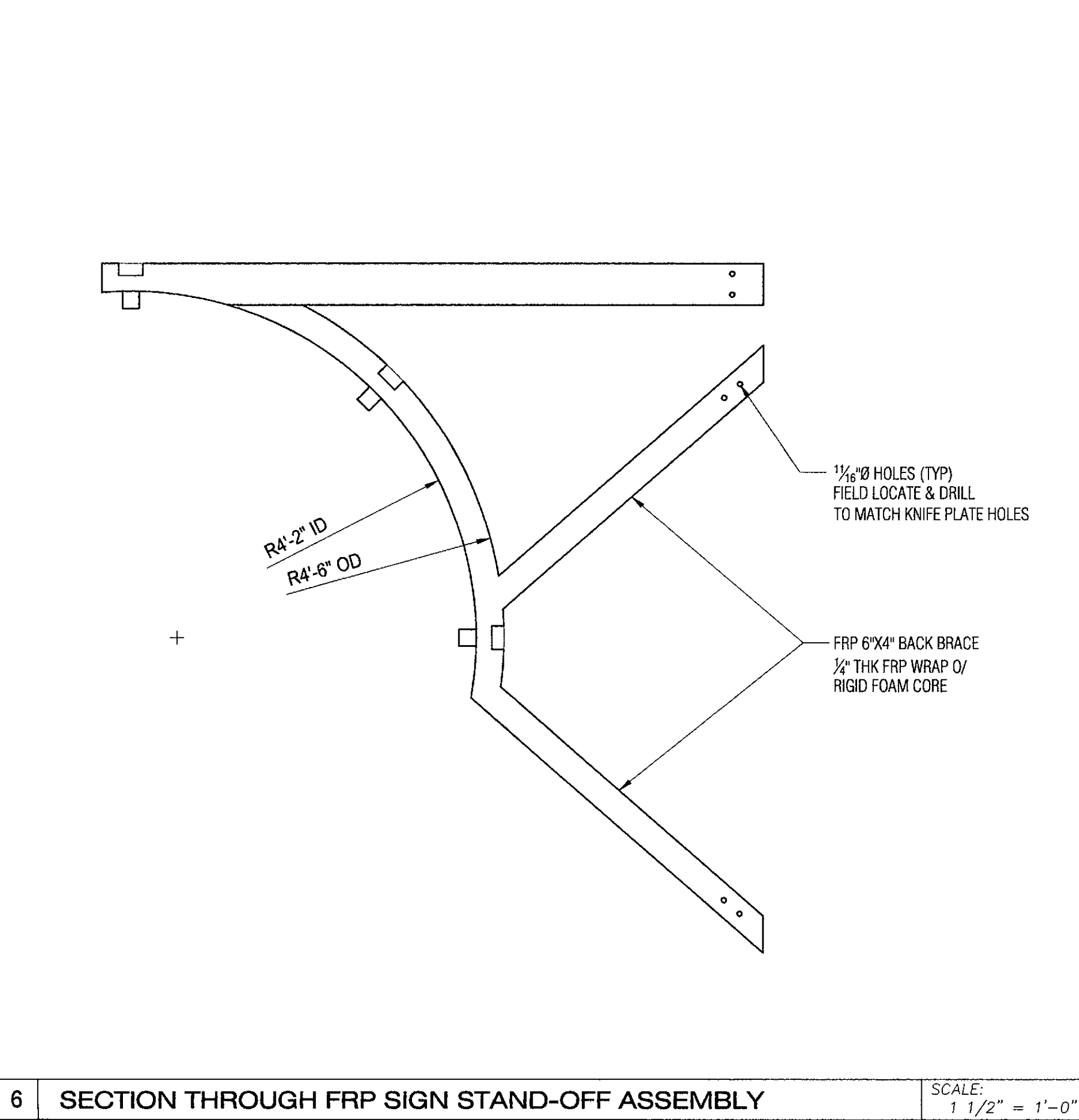
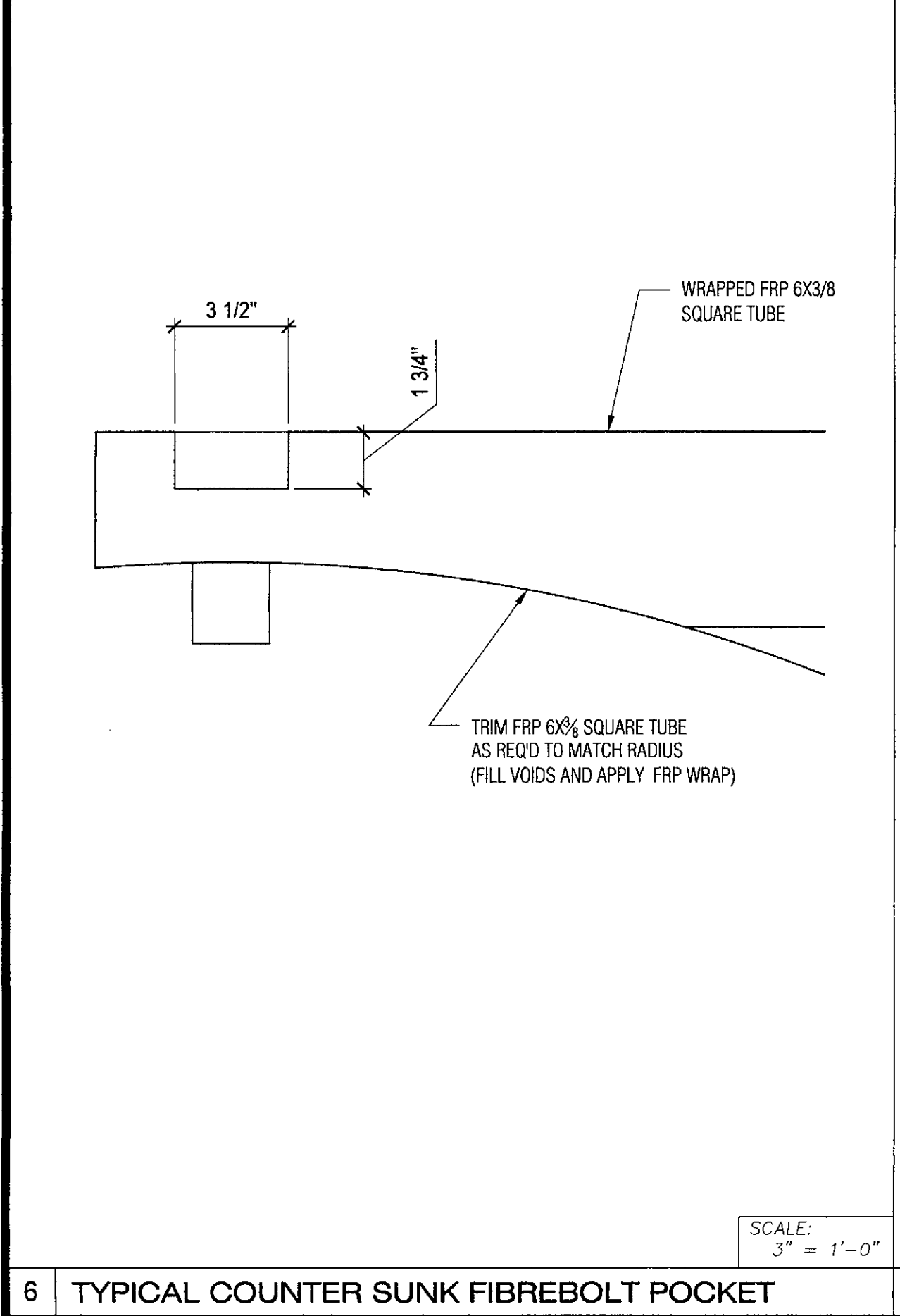


5 BOTTOM FRP STUB

4 MIDDLE FRP STUB

3 TOP FRP STUB

1 ASSEMBLED FRP SIGN - FRONT VIEW



6 TYPICAL COUNTER SUNK FIBREBOLT POCKET

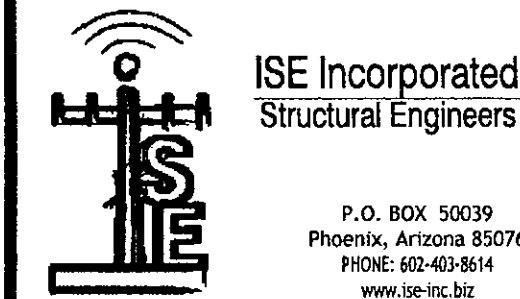
6 SECTION THROUGH FRP SIGN STAND-OFF ASSEMBLY

2 FRP SIGN STAND-OFF ASSEMBLY



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FRP DETAILS

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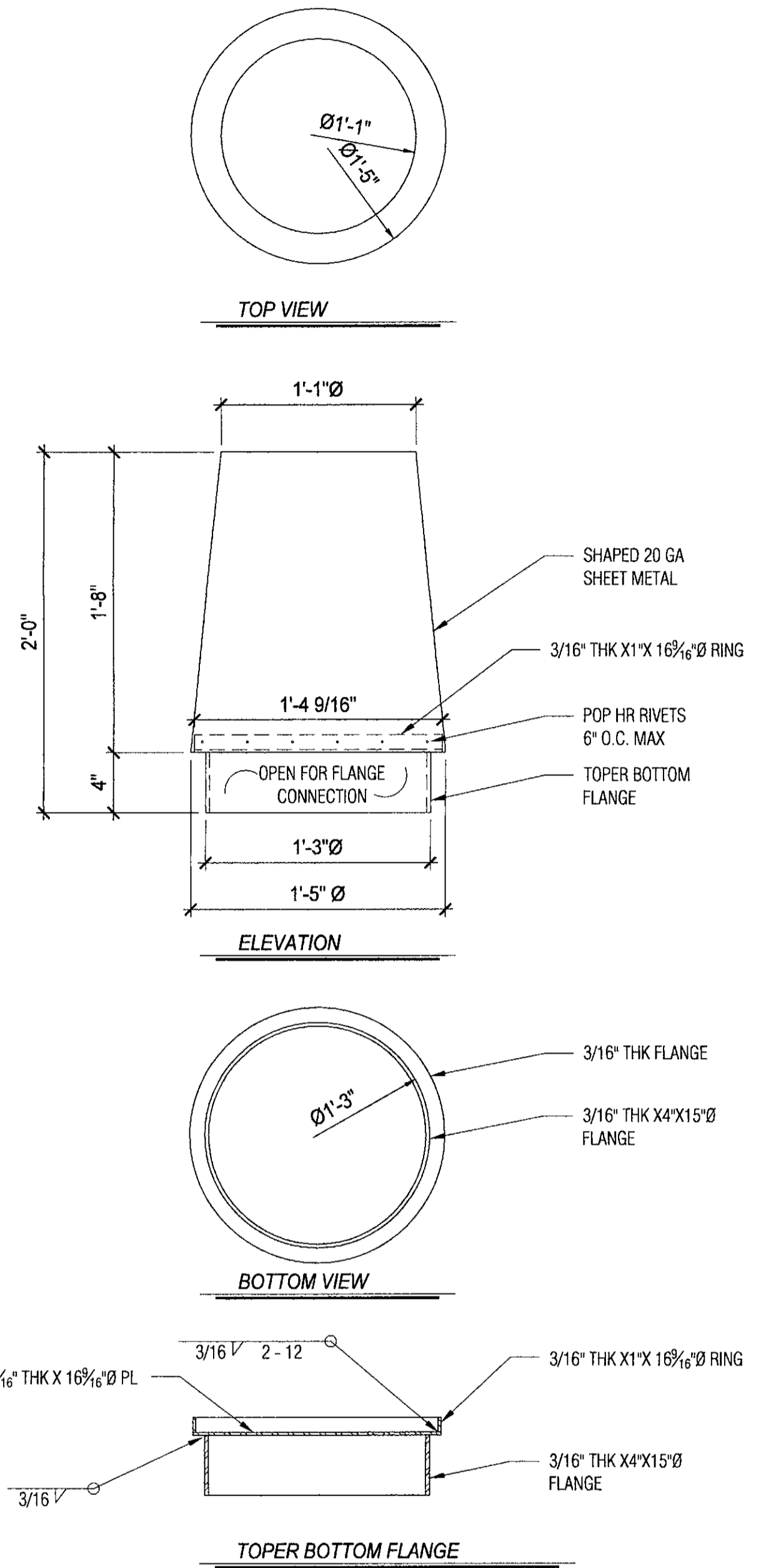
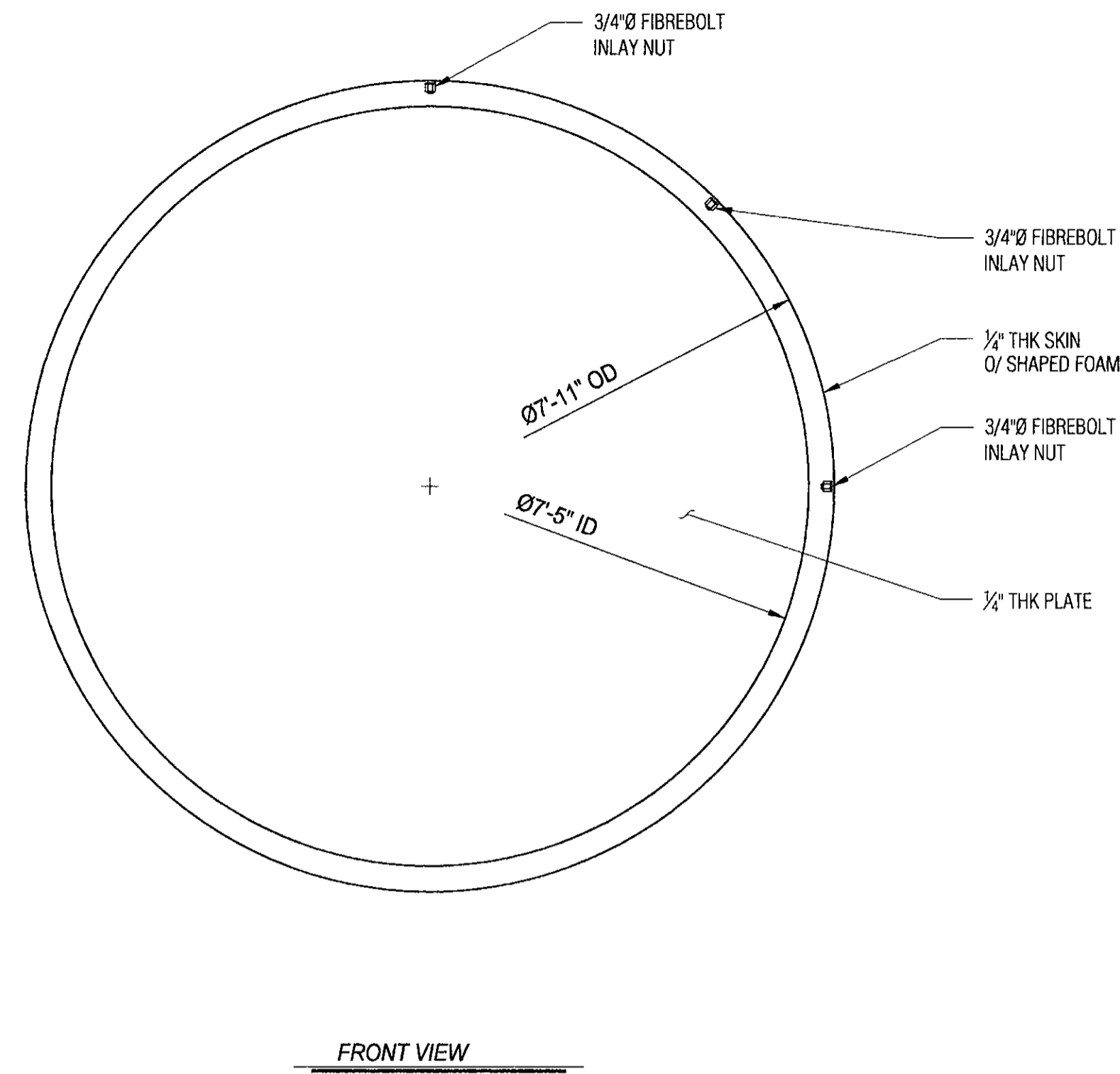
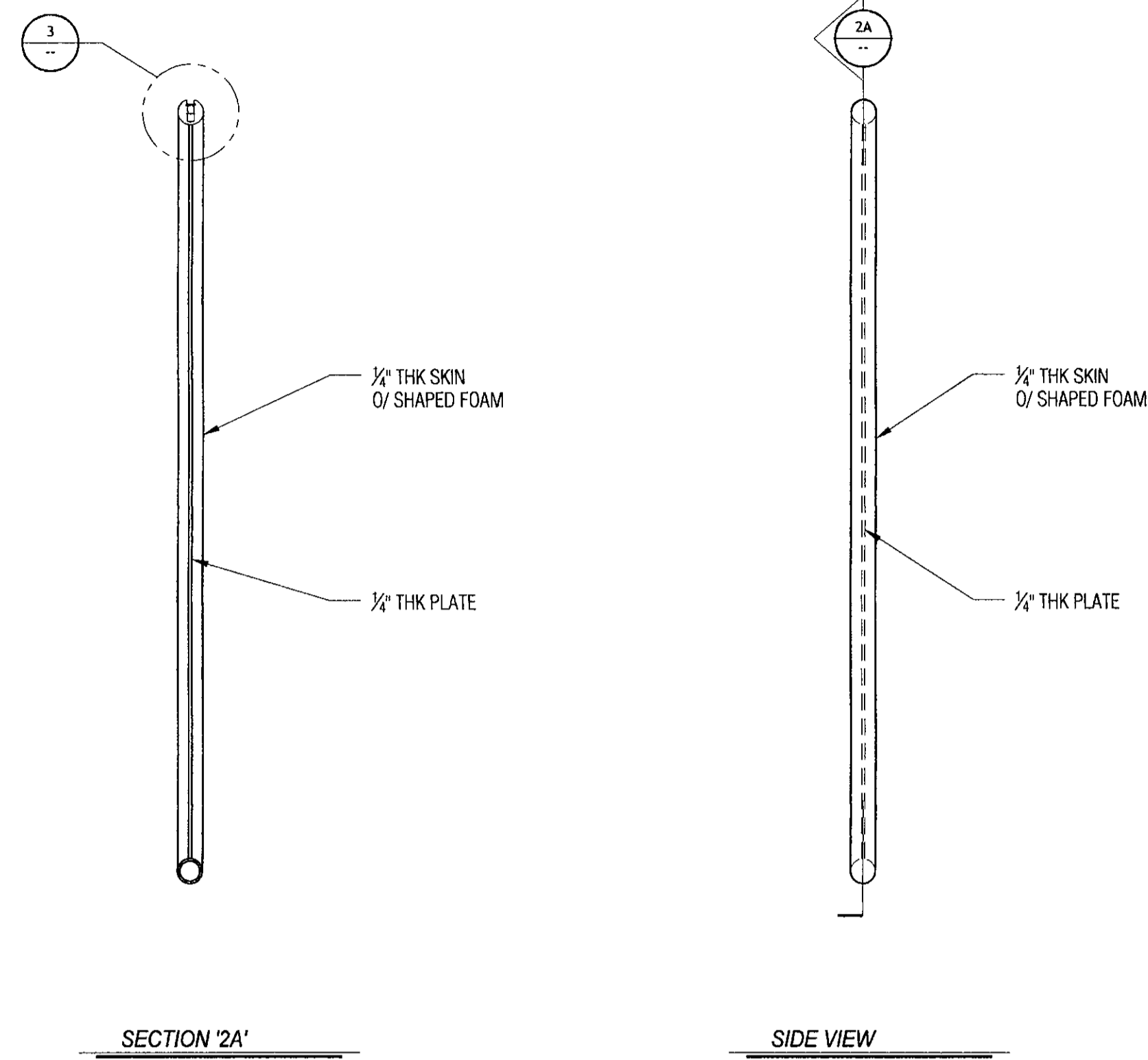
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PROGRESS LOG		
9	10/20/17	Code Update MG
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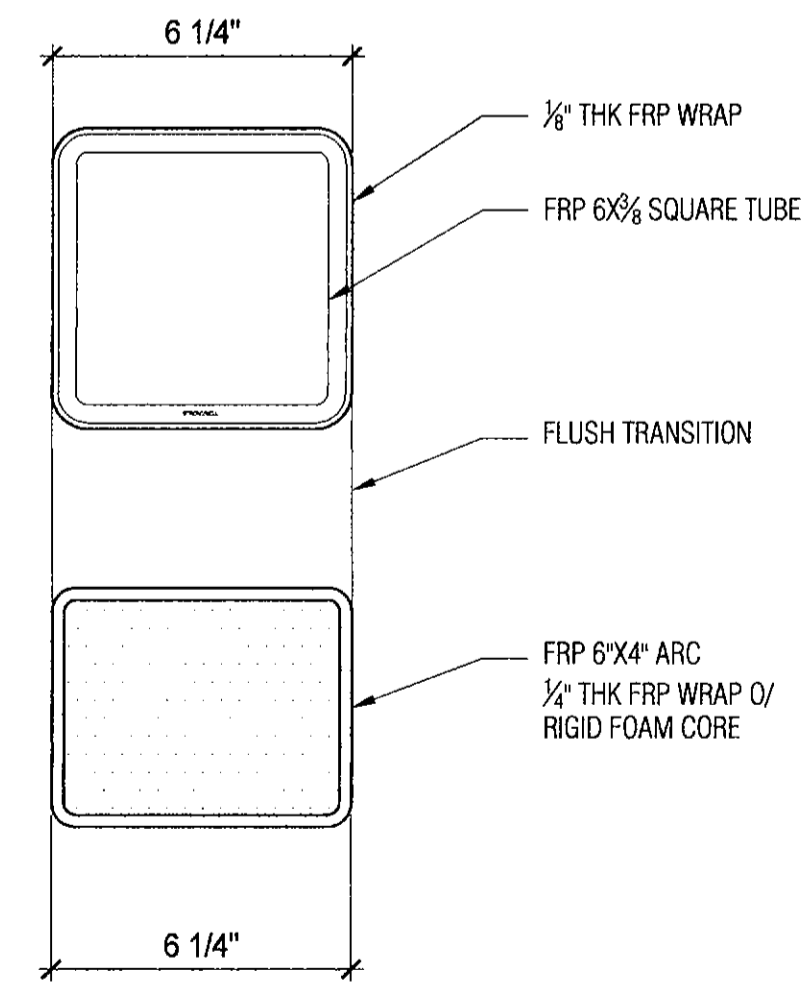
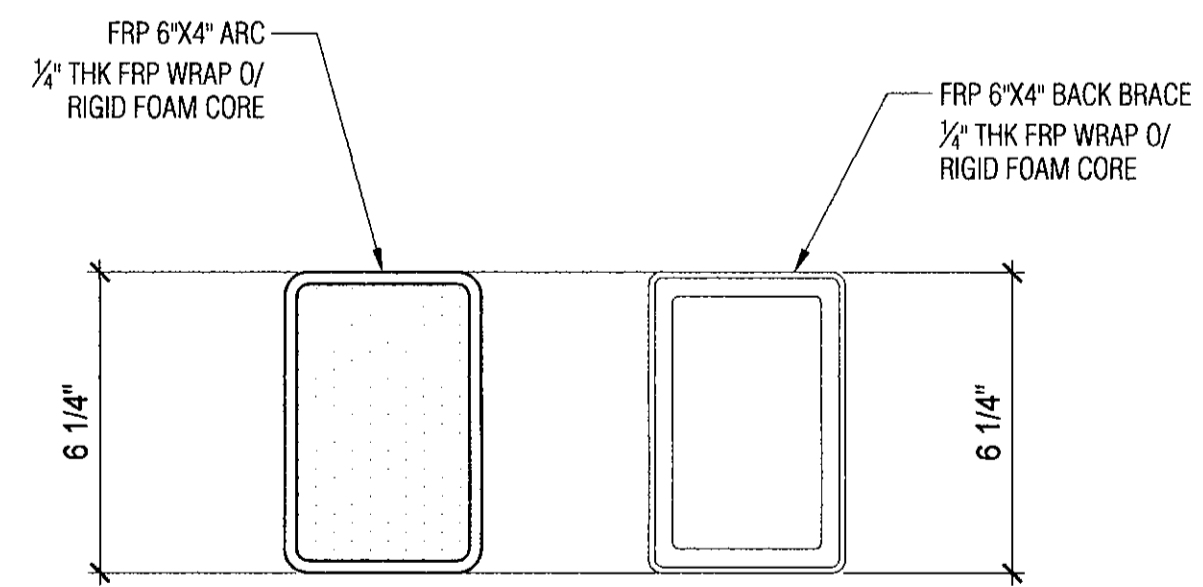
SHEET NUMBER **PF7.0**      PROGRESS **9**

DRAWING DATE  
 October 20, 2017



2 FRP SIGN

SCALE: 3/4" = 1'-0"

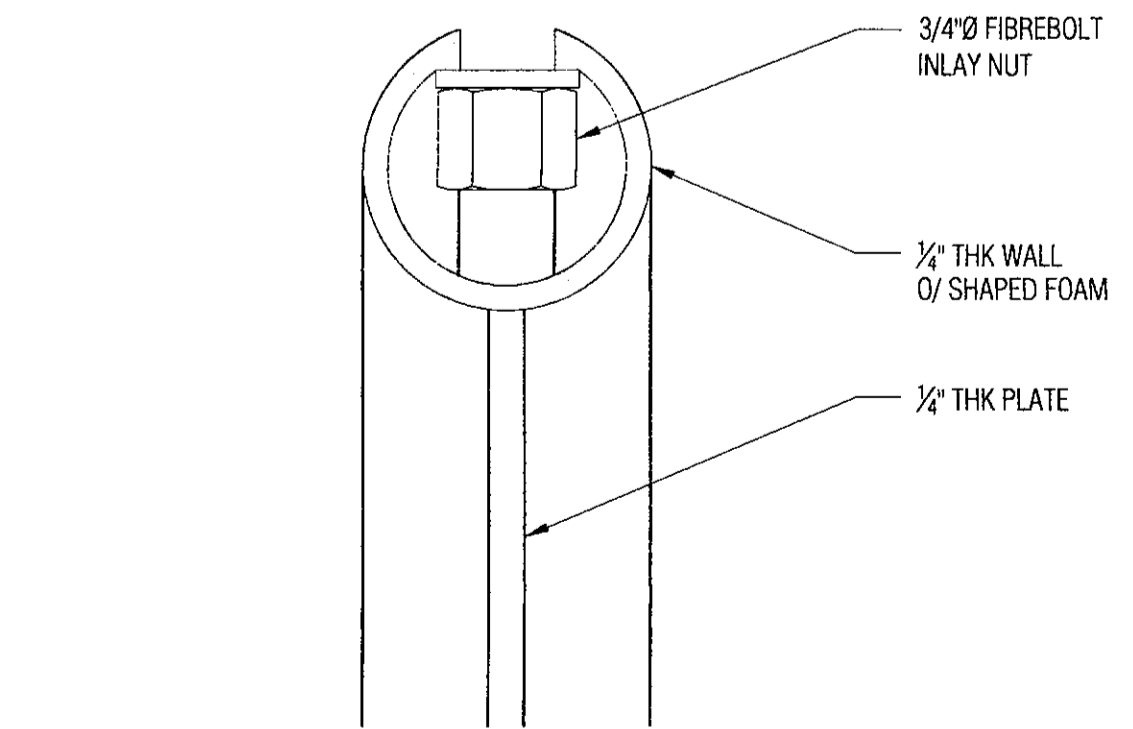


SCALE: NTS

SCALE: 3" = 1'-0"

1 SHAPED 20 GA SHEET METAL TOPPER

SCALE: 1/2" = 1'-0"



3 CONNECTION NUT INLAY

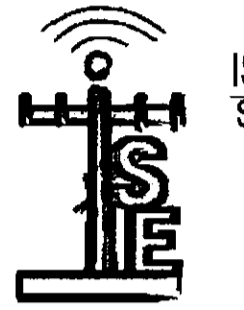
SCALE: 6" = 1'-0"

verizon

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FRP SIGN DETAILS  
& METAL TOPPER

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PROGRESS LOG

Date	Description	By
9/10/2017	Code Update	MG
8/09/18/17	Client Changes	MG
7/01/31/17	Client Comments	MG
6/11/28/26	Client Comments	MG
5/11/23/26	Added Milbanks Pedestal	MG
4/02/22/16	Vent Cover Change	AG

SHEET NUMBER	PROGRESS
PF8.0	9

DRAWING DATE  
October 20, 2017