# Freeman Rd Freeman Rd Katy Oil And Gas Frield Pattison San Felipe Brookshire Ray Freeman Rd Katy Oil And Gas Frield Tamarron\_SC1 Fulshear Oil Field Cinco Ranch Mis Simonton W Sellfort St. New Ter Orchard Earl NASA NGA USGS | Baylor University, City of Houston Helb Texas Parks Sill-behand

# Title Esti. NASA, NGA, USGS, FEMA | Esti Community Meps Contributors, Beylon

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SITE NAME:

# VERIZON SMALL CELL WALLER CO. PKG 2



CONSTRUCTION PLANS FOR PROPOSED ANTENNA SITES

VZW SITE NAME	MGD LOCATION CODE	LAT	LONG	E911 ADDRESS	KEY MAP
TAMARRON_SC1	5000923464	29.762467	-95.901545	1383 JORDAN RANCH BLVD, KATY, TX 77494	482H

\*NO WATER, WASTEWATER, OR DRAINAGE PROPOSED IN THIS PLAN SET

CONTRACTOR SHALL COMPLY WITH WALLER COUNTY
STREET CUT ORDINANCE

ONE-CALL NOTIFICATION
SYSTEM
CALL BEFORE YOU DIG!!!!
713-223-4567 (IN HOUSTON)
NEW STATEWIDE NUMBER OUTSIDE HOUSTON
1-800-344-8377

CONTRACTOR SHALL NOTIFY WALLER COUNTY
OFFICE OF THE ENGINEERING, 48 HOURS BEFORE
STARTING WORK ON THIS PROJECT. TELEPHONE NO.
979-826-7670.

NOTE

CONTRACTOR MUST FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL EXISTING CENTERPOINT ENERGY UTILITY LINES AND SBC CONDUITS PRIOR TO COMMENCING CONSTRUCTION ON THIS PROJECT.

CONTRACTOR MUST FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL EXISTING CENTERPOINT ENERGY UTILITY LINES AND SBC CONDUITS PRIOR TO COMMENCING

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO

CONSTRUCTION ON THIS PROJECT.





VERIZON

SMALL CELL NODE

CONSTRUCTION PLANS FOR

PROPOSED ANTENNA

SITES

NO.	DATE	F	revisions	
0	06/13/23	15	t Submittal	
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3	03/06/25	RE	V. PER RFDS	
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PATRICK W MARSHALL

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FIRM REGISTRATION #:13897

DESIGNED: JG
DRAWN: JG
CHECKED: JG

JOB #: 23\_V1S-016

TITLE

# GENERAL NOTES:

THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.

IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.

THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.

ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.

ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHALL BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.

CONSTRUCTION MANAGER WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. NO TOWER SHALL BE CONSTRUCTED UNTIL THE TOWER RELEASE FORM IS ISSUED TO THE CONTRACTOR.

THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE FINAL RF DESIGN AND TOWER STRUCTURAL ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.

CONTRACTOR SHALL VERIEY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.

ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.

SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.

PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.

RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED IN THIS DESIGN PACKAGE.

# **EXCAVATION & GRADING NOTES:**

- 1. ALL CUT AND FILL SLOPES SHALL BE 3: 1 MAXIMUM.
- 2. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.
- 3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- 4. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OF CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- 5. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACK FILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
- 6. BACK FILL SHALL BE:
  - APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, GRAVEL, OR SOFT SHALE:
  - FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS;
  - IN LAYERS AND COMPACTED.
- 7. SITE FILL MATERIAL AND FOUNDATION BACK FILL SHALL BE PLACED IN LAYERS, MAXIMUM 6" DEEP BEFORE COMPACTION. EACH LAYER SHALL BE SPRINKLED IF REQUIRED AND COMPACTED BY HAND OPERATED OR MACHINE TAMPERS TO 95% OF MAXIMUM DENSITY, AT THE OPTIMUM MOISTURE CONTENT 2% AS DETERMINED BY ASTM DESIGNATION D-698, UNLESS OTHERWISE APPROVED. SUCH BACK FILL SHALL NOT BE PLACED BEFORE 3 DAYS AFTER PLACEMENT OF CONCRETE.
- 8. THE FOUNDATION AREA SHALL BE GRADED TO PROVIDE WATER RUNOFF AND PREVENT WATER FROM STANDING. THE FINAL GRADE SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE FOUNDATION AND SHALL THEN BE COVERED WITH 4" DEEP COMPACTED STONE OR GRAVEL.
- 9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STAW BALE SEDIMENT BARRIERS AND CHECK DAMS.
- 10. FILL PREPARATION:
  - REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAT 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- 11. REPLACE THE EXISTING WEARING SURFACE ON AREAS WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION OPERATIONS. SURFACE SHALL BE REPLACE TO MATCH EXISTING ADJACENT SURFACING AND SHALL BE OF THE SAME THICKNESS. NEW SURFACE SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATERIAL, OF OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL RESURFACING MATERIAL AS REQUIRED. BEFORE SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. SURFACING SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
- 12. PROTECT EXISTING SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- 13. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
- 14. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
- 15. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- 16. RIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY, AND FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCE.





VERIZON

SMALL CELL NODE

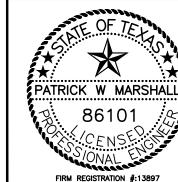
CONSTRUCTION PLANS FOR

PROPOSED ANTENNA

SITES

0	06/13/23	1ST SUBMITTAL
1	11/28/23	2ND SUBMITTAL
2	04/03/24	3RD SUBMITTAL
3	03/06/25	REV. PER RFDS

**REVISIONS** 



NO. DATE

DESIGNED: JG
DRAWN: JG
CHECKED: JG

JOB #: 23\_V1S-016

**NOTES** 

### FLOODPLAIN:

TAMARRON\_SC1 OVERALL SITE PLAN: THE PROPERTY SHOWN HEREON (EITHER TOTAL OR IN PORTION) IS LOCATED IN FLOOD INSURANCE RATE MAP 45473C0350E DATED 2/18/2009 UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2 PERCENT ANNUAL FLOOD CHANCE FLOODPLAIN.

### BENCHMARK:

TAMARRON\_SC1 OVERALL SITE PLAN: BENCHMARKS SHOWN HEREON REFERENCED TO HARRIS COUNTY FLOODPLAIN MARKER NO. 190073R. FROM THE INTERSECTION OF FROM I-10(WEST) AND PEDERSON RD. GO SOUTH ON TEXAS HERITAGE PARKWAY, GO SOUTH ON TEXAS HERITAGE PARKWAY 0.36 MILES TO THE BRIDGE OVER WILLOW FORK.

ALL EXISTING LANDSCAPING AND OR PRIVATE UTILITIES AFFECTED BY CONSTRUCTION TO BE RESTORED TO ORIGINAL STATE UPON COMPLETION

# NOTE:

TOTAL ESTIMATED LENGTH OF PROPOSED UNDERGROUND CONDUIT: ±321'

NODE INFORMATION:

LATITUDE/LONGITUDE: 29.762467, -95.901545 E911 ADDRESS: 1383 JORDAN RANCH BLVD. CITY: CYPRESS ZIP CODE: 77433 KEY MAP: 482H

POWER SOURCE COORDINATES:

LATITUDE/LONGITUDE: 29.76322202, -95.90142049

±38' PROFILE A (SEE SHEET 5) 2'-6" PROPOSED 2'x2' BORE PIT STA 0+38 - PROPOSED BORED 2" HDPE CONDUIT FOR POWER - EXISTING STORM INLET (TYP.) TAMARRON\_SC1 OVERALL SITE PLAN

10, 5, 0 10, SIZE) 1, =20, -0, (11×17)

- EXISTING TRANSFORMER

STA 0+00

- PROPOSED FIBER

- EXISTING

LINE (TYP.)

- EXISTING UTILITY POLE

(TYP.)

OVERHEAD POWER

HAND HOLE

PROPOSED

RAYCAP POLE STA 03+21

STA 3+14

(PROPOSED POWER SOURCE)







VERIZON SMALL CELL NODE CONSTRUCTION PLANS FOR PROPOSED ANTENNA SITES

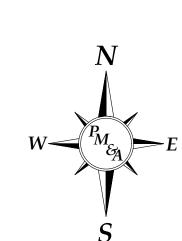
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DESIGNED: JG DRAWN: JG CHECKED: JG

> JOB #: 23\_V1S-016

**NODE NAME POWER DESIGN 2** 



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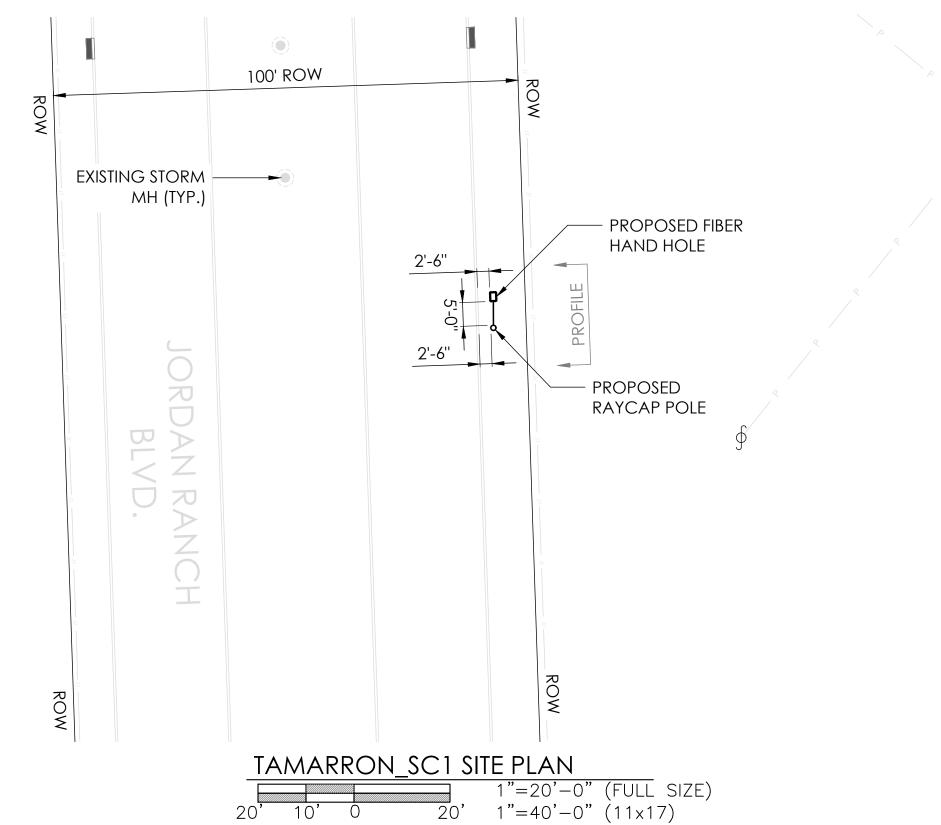
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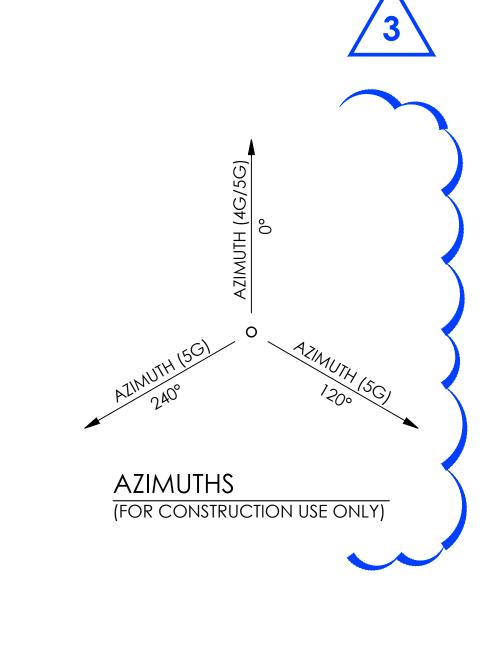
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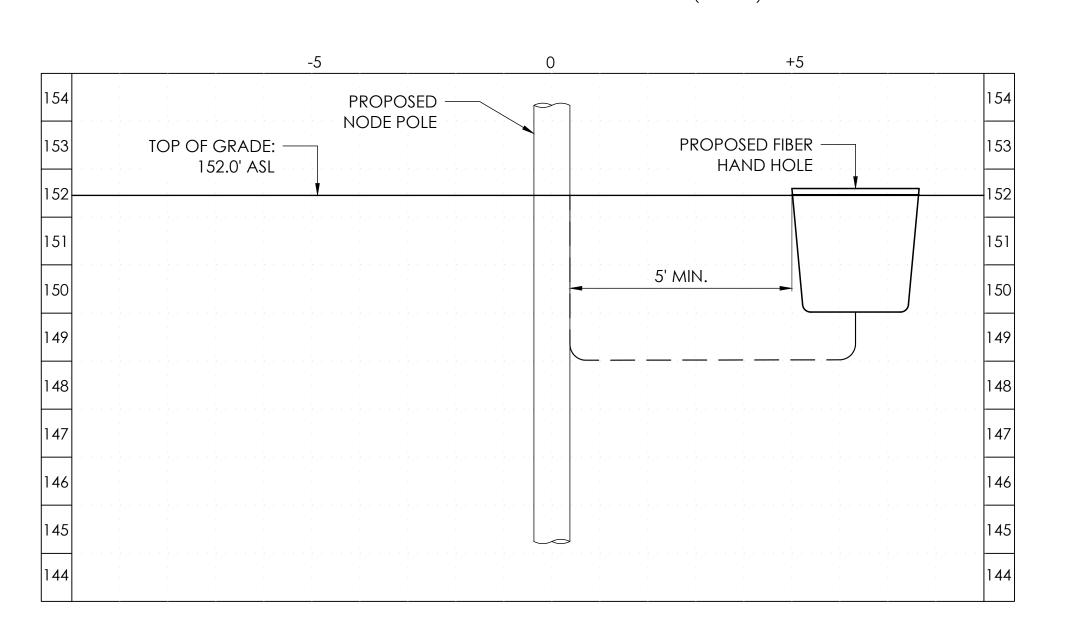
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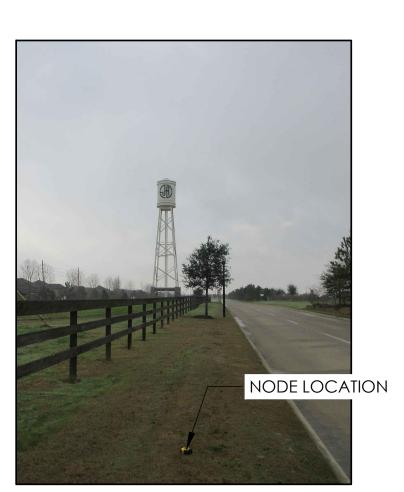
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SITE PHOTO

(FOR CONSTRUCTION USE ONLY)





VERIZON

SMALL CELL NODE

CONSTRUCTION PLANS FOR

PROPOSED ANTENNA

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NO. DATE

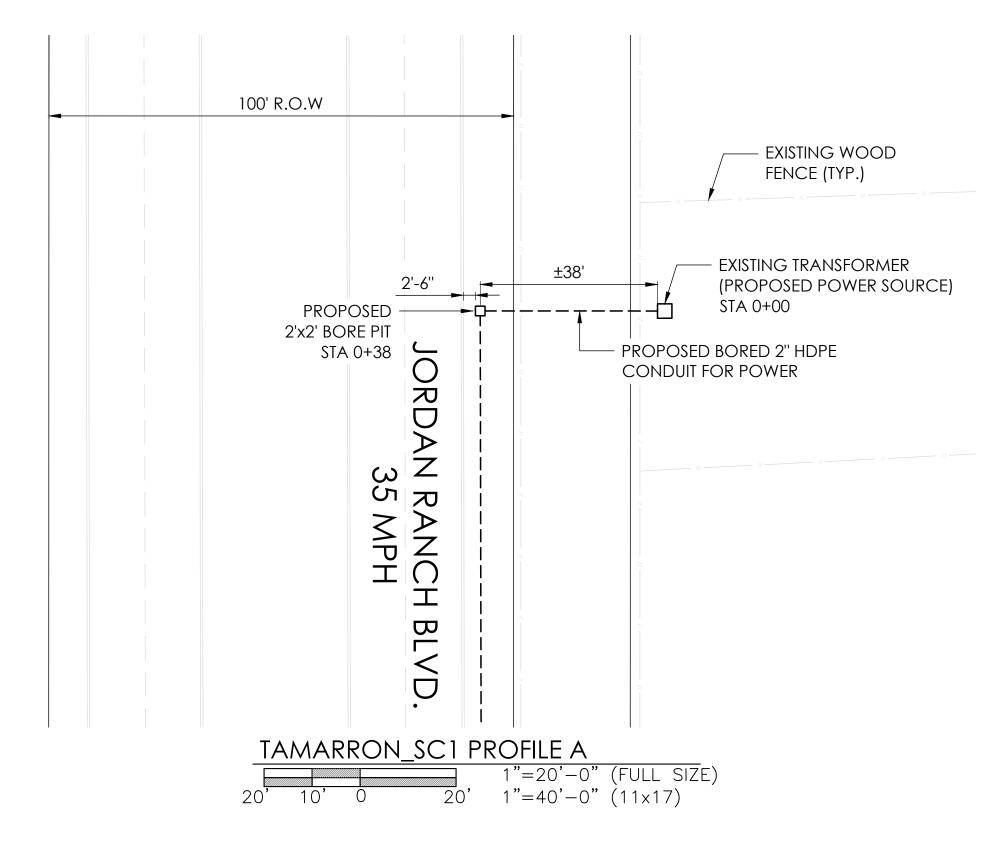
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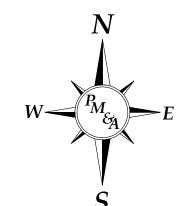
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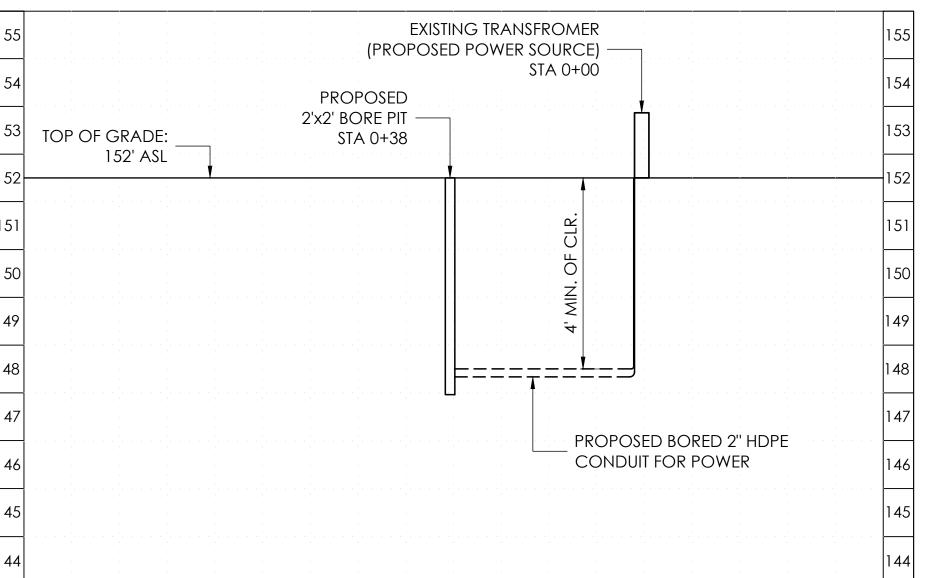
NODE NAME POWER DESIGN 2

NOTE:

ALL EXISTING LANDSCAPING AND OR PRIVATE UTILITIES AFFECTED BY CONSTRUCTION TO BE RESTORED TO ORIGINAL STATE UPON COMPLETION







TAMARRON\_SC1 PROFILE A

1"=2'-0" (FULL SIZE)
2' 1' 0 2' 1"=4'-0" (11x17)





VERIZON

SMALL CELL NODE

CONSTRUCTION PLANS FOR

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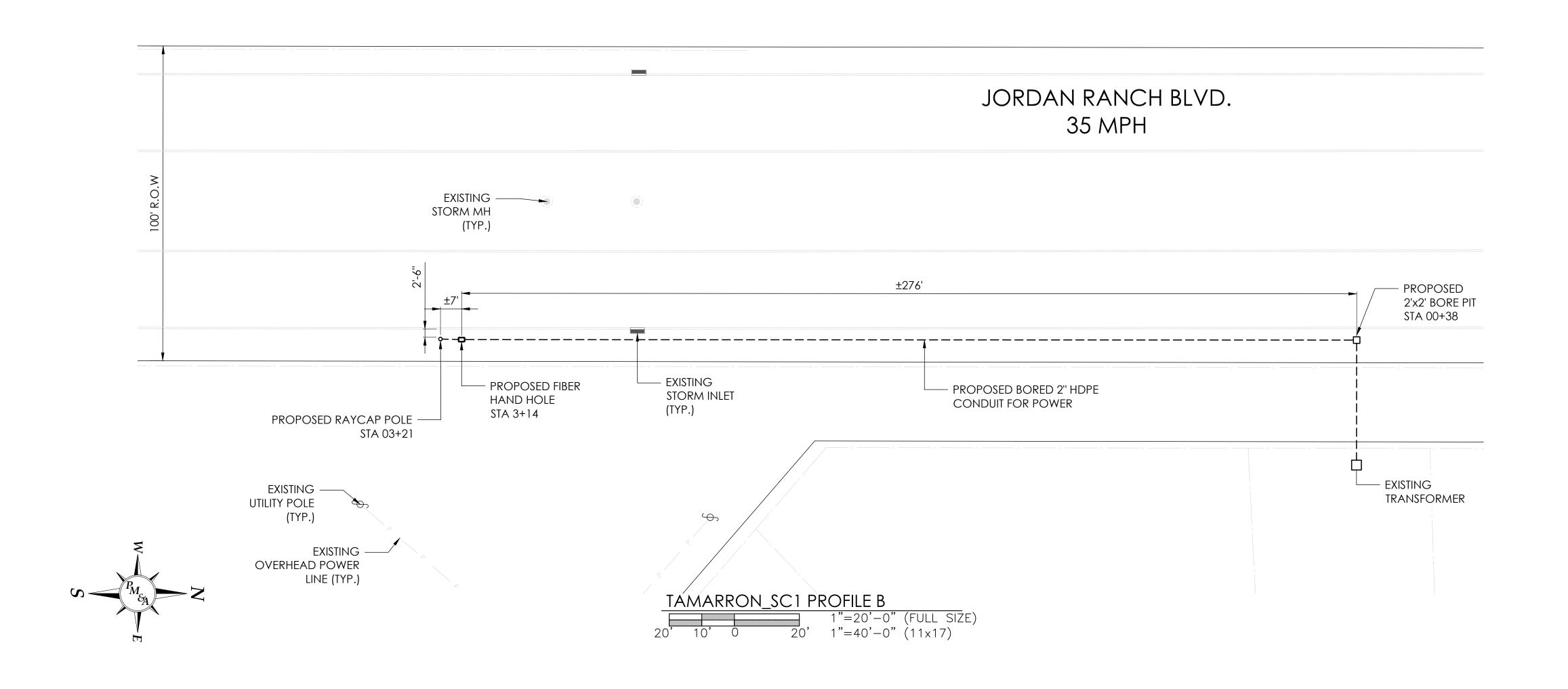
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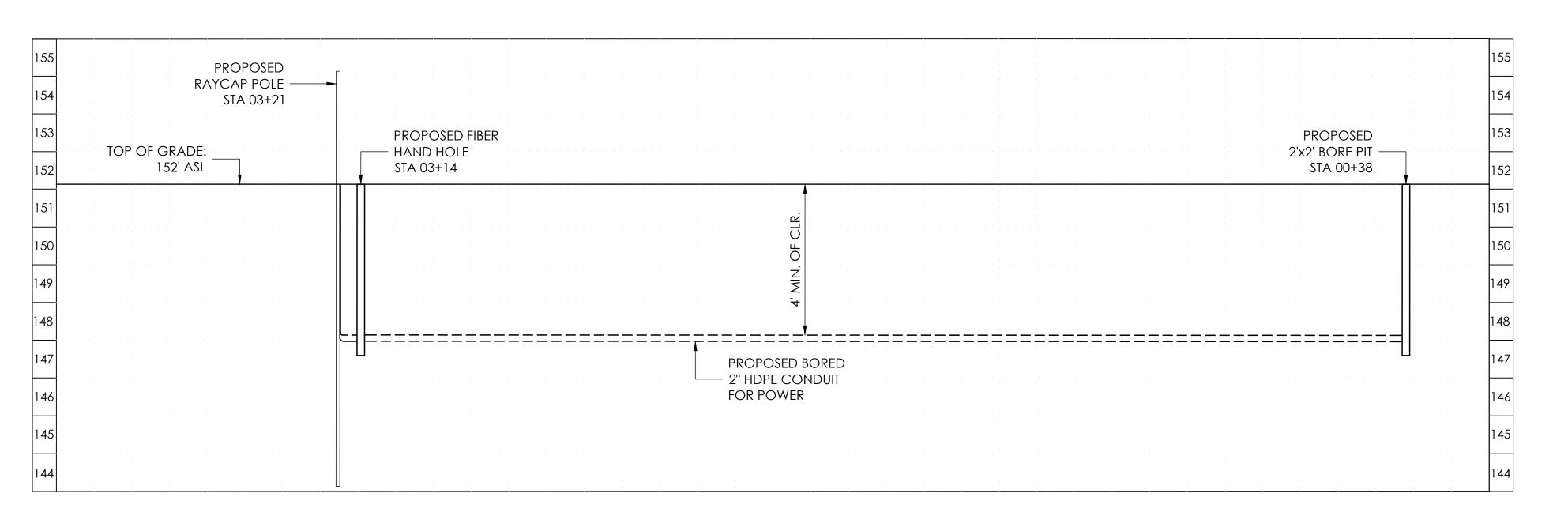
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TAMARRON\_SC1 PROFILE B

1"=2'-0" (FULL SIZE)
2' 1' 0 2' 1"=4'-0" (11x17)





VERIZON

SMALL CELL NODE

CONSTRUCTION PLANS FOR

PROPOSED ANTENNA

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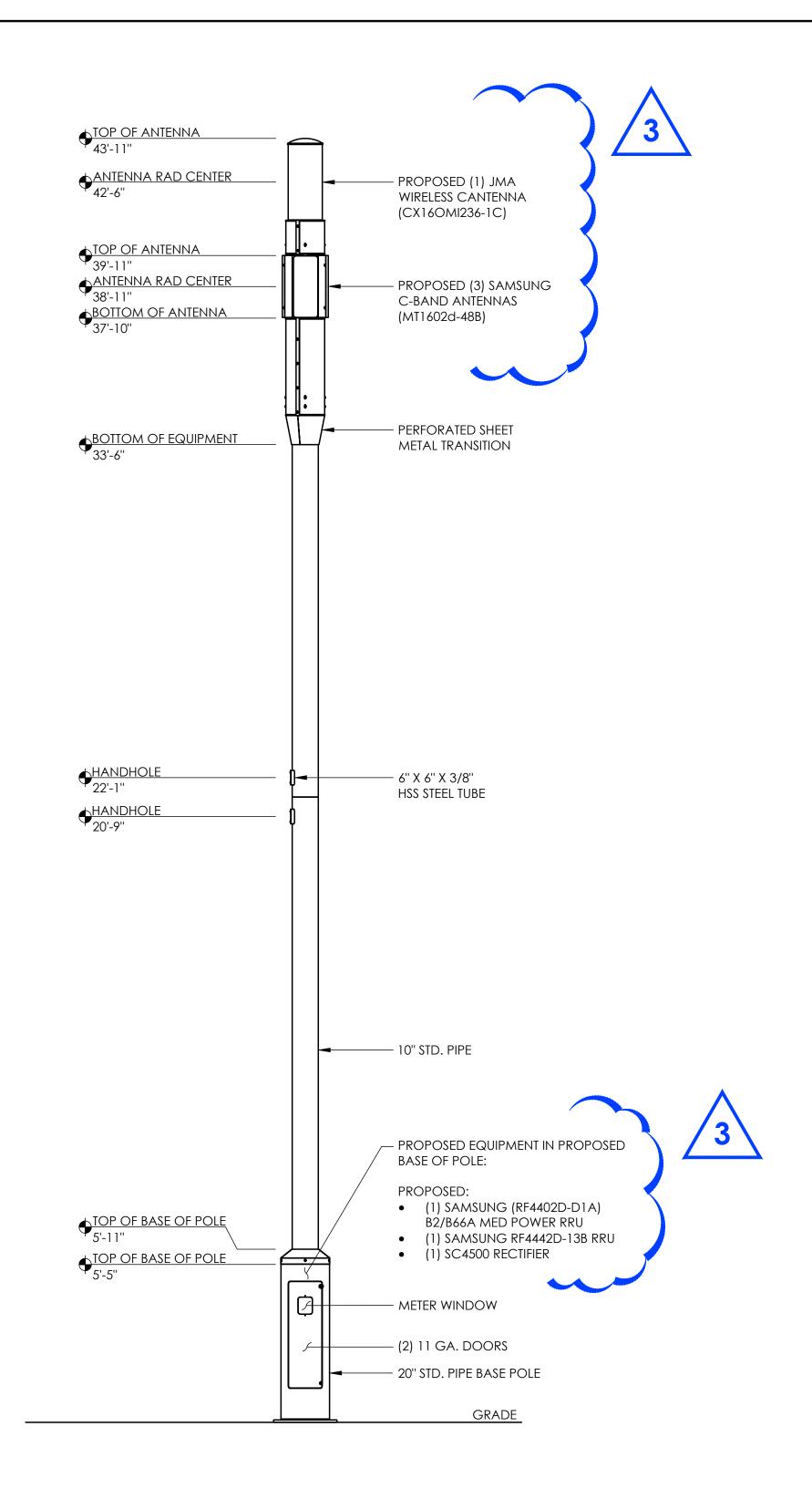
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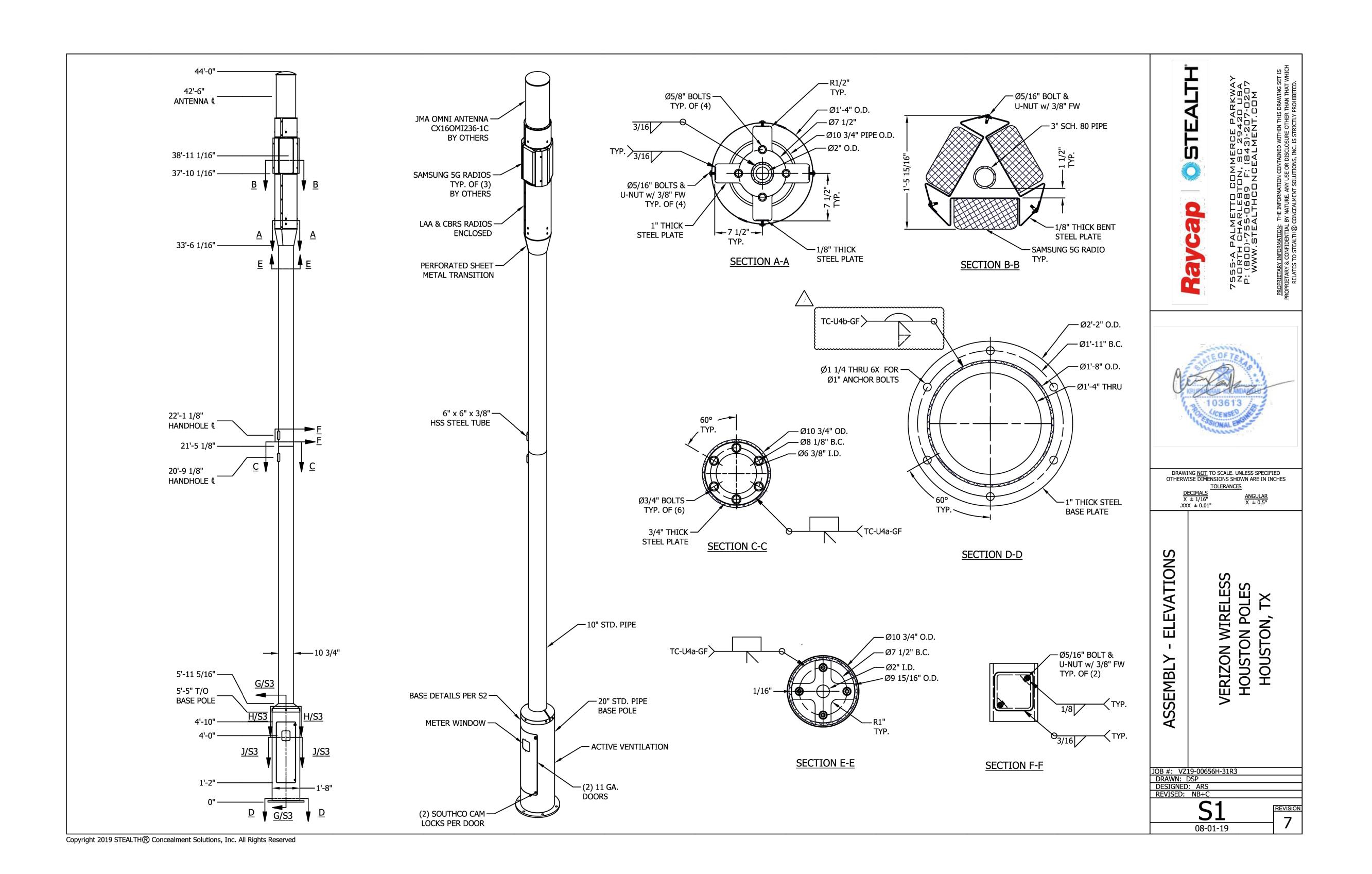
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**ELEVATION** 

7 OF 16

ELEVATION VIEW 5G/4G RAYCAP STEALTH POLE

NOT TO SCALE



# verizon



VERIZON

SMALL CELL NODE

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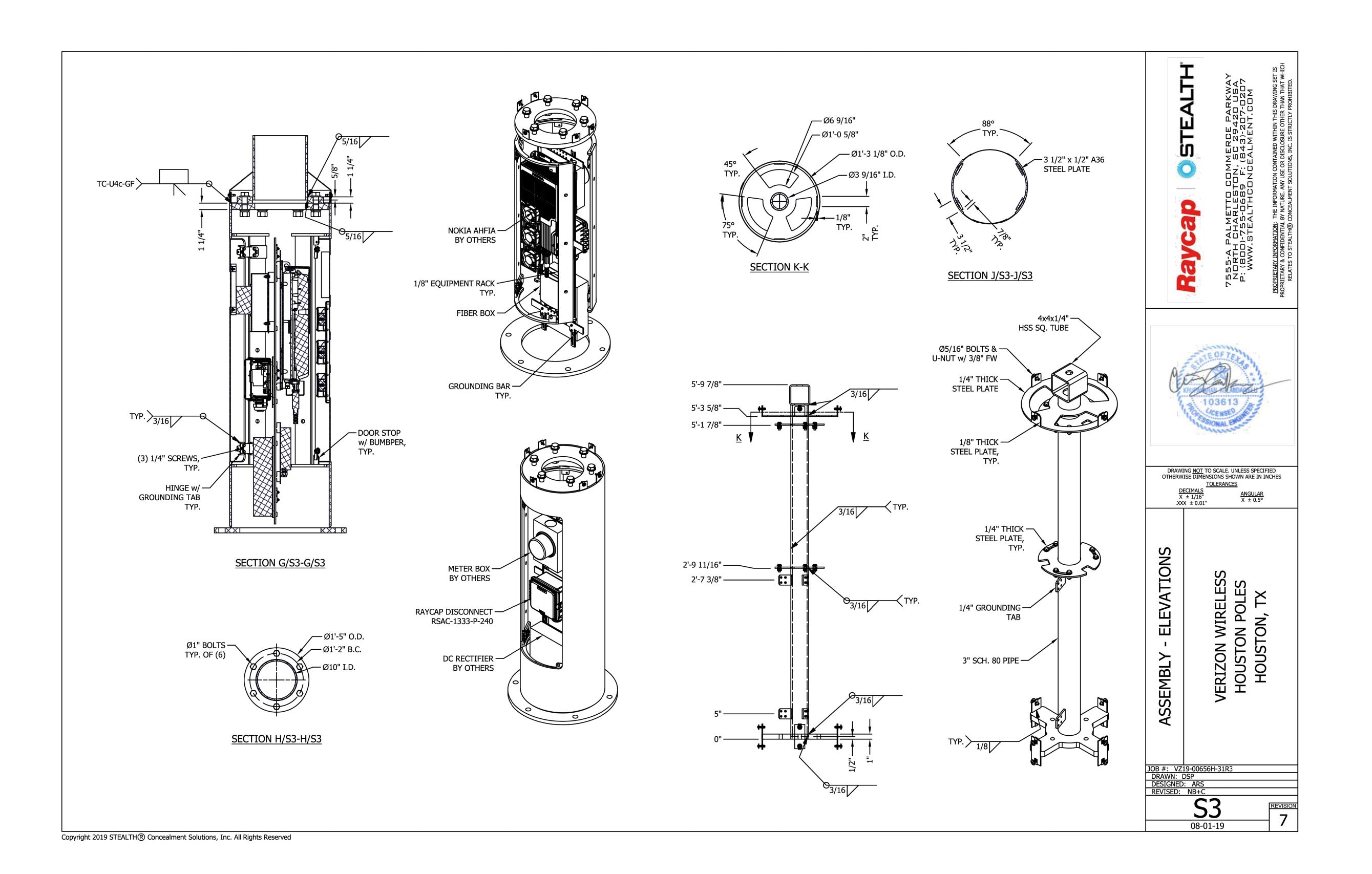


PATRICK W MARSHALL

DRAWN: JG

CHECKED: JG

JOB #: 23\_V1S-016







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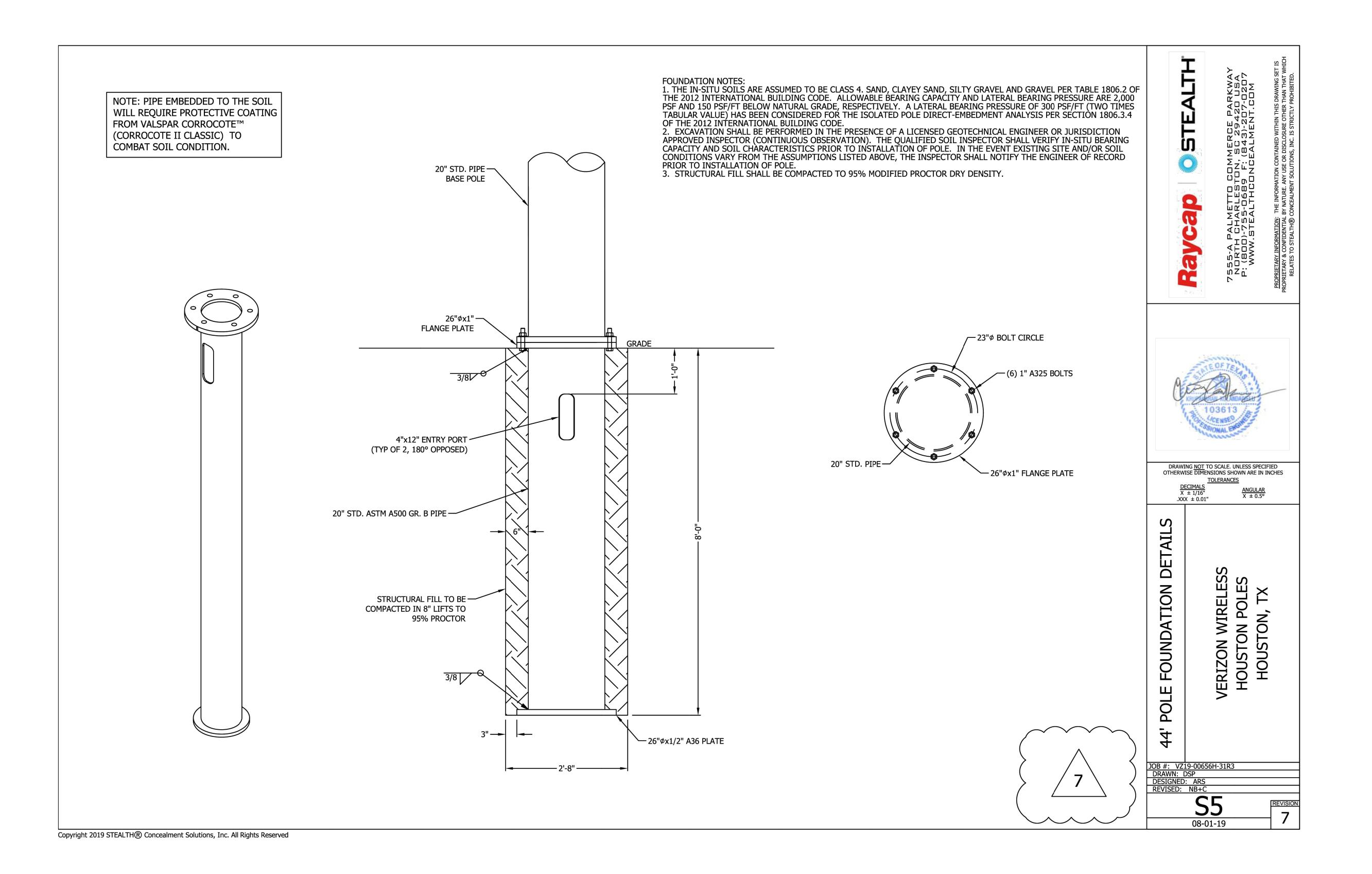
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# SPEC SHEET 2







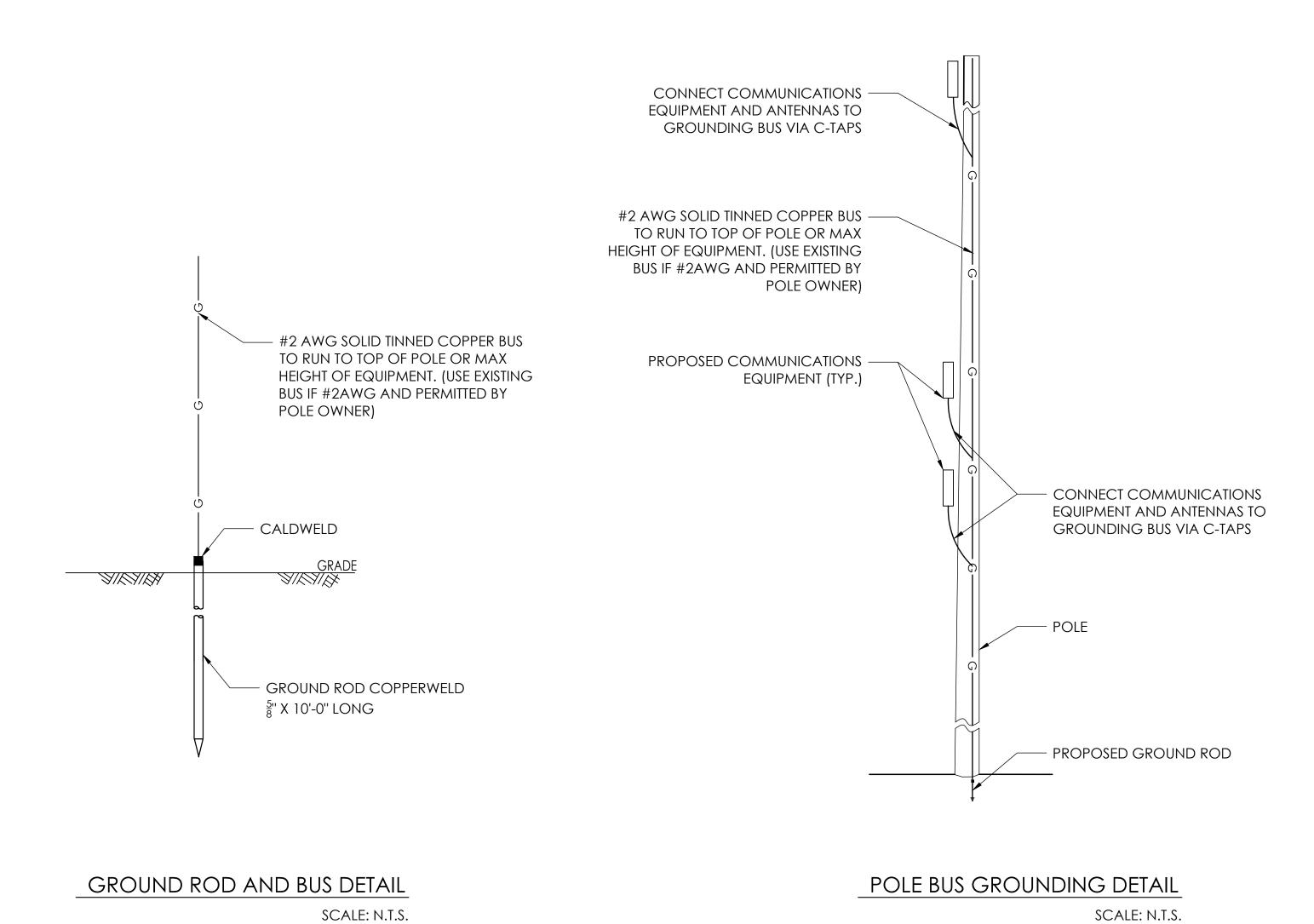
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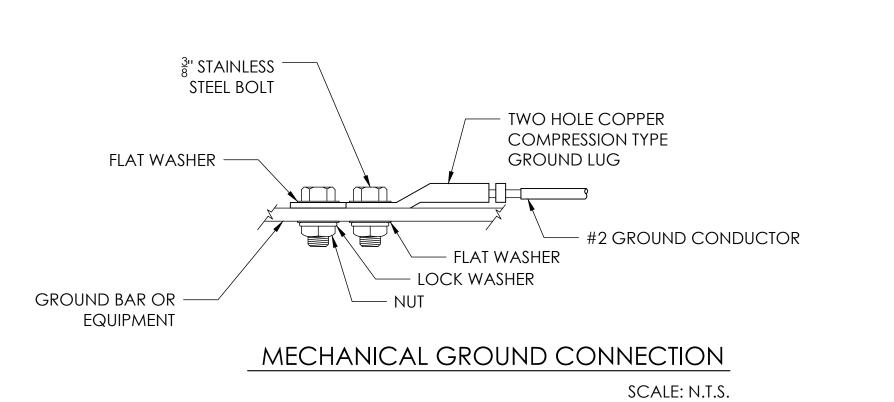


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JOB #: 23\_V1S-016

SPEC SHEET
3





verizon



VERIZON

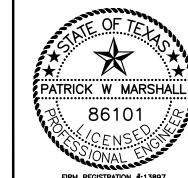
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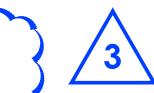
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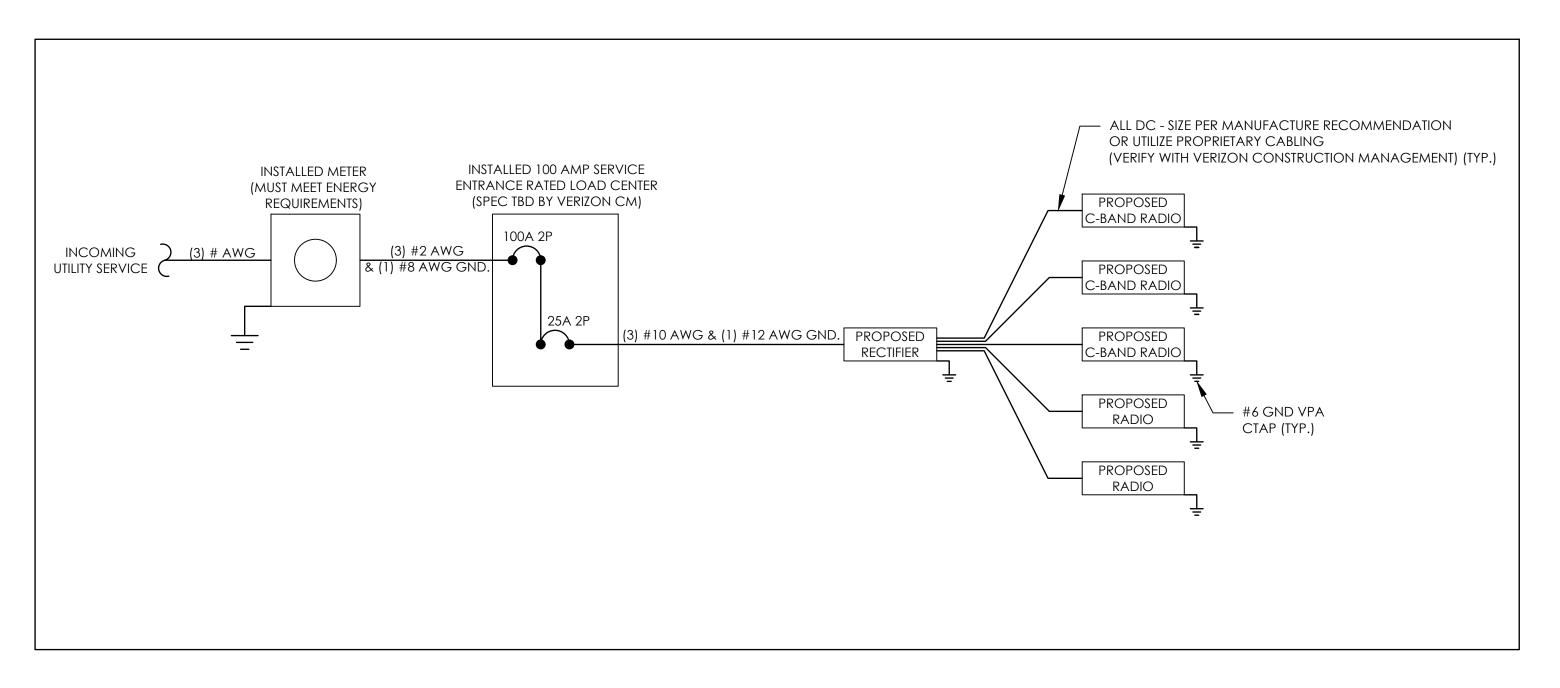
DRAWN: JG

CHECKED: JG

JOB #: 23\_V1S-016

GROUNDING





# 4G/5G NODE ONE LINE DIAGRAM NOT TO SCALE

	PANEL NAME			LOCATION:				VOLTAGE:		240/120	1Ø		MOUNTING / ENCLOSURE:	SUR	RFACE / NEMA 1	
	3/6/2025		BASE CABINET				100 100	AMPS AMPS			AVAIL. FAULT CURRENT: SHORT CIRCUIT RATING:	25 000				
	3/6/2025	1						BUS RATING:	100	AIVIPS	1 1		SHORT CIRCUIT RATING.	35,000		T
AMPS/ POLES	WIRE & CONDUIT	TYPE		DESCRIPTION	I	KVA	СКТ	A		В	СКТ	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS POLES
25/2	3#10, 1#12G, 1/2"C	EQ	PRO	POSED RECTI	FIER	0.38	1	0.38			2	0.00	SPACE			
				SPACE		0.00	3				4	0.00	SPACE			
				SPACE		0.00	5				6	0.00	SPACE			
				SPACE		0.00	7				8	0.00	SPACE			
				SPACE		0.00	9				10	0.00	SPACE			
				SPACE		0.00	11				12	0.00	SPACE			
											-		•			
						PHASE	TOTAL	0.4		0.0	KVA					
L		1	•		l	PHASE	TOTAL	0.4		0.0	KVA		TOTAL CONNECTED LO	AD	0.4 kVA	2 A
					-	PHASE	TOTAL	0.4		0.0	KVA		TOTAL CONNECTED LO		0.4 kVA 0.5 kVA	2 A
LOAD	DESCRIPTION	CONN	l. LOAD	DEMAND	DESIG	PHASE GN LOAD	†отац ]	0.4		0.0	KVA					
LOAD TYPE	DESCRIPTION	CONN KVA	I. LOAD	DEMAND FACTOR	DESIG KVA		TOTAL	0.4		0.0	KVA					
	DESCRIPTION LIGHTING					GN LOAD	TOTAL	0.4		0.0	KVA					
		KVA	AMPS	FACTOR	KVA	IN LOAD	TOTAL	0.4		0.0	KVA					
TYPE L	LIGHTING	KVA 0.0	AMPS 0.0	FACTOR 1.25	KVA 0.0	GN LOAD AMPS 0.0	TOTAL	0.4		0.0	KVA					
TYPE L R	LIGHTING RECEPTACLE	KVA 0.0 0.0	0.0 0.0	FACTOR 1.25 NEC	0.0 0.0	GN LOAD  AMPS  0.0  0.0	TOTAL	0.4		0.0	KVA		TOTAL DEMAND LOA			
TYPE L R M	LIGHTING RECEPTACLE MOTOR	0.0 0.0 0.0	0.0 0.0 0.0	FACTOR 1.25 NEC NEC	KVA 0.0 0.0 0.0	6N LOAD  AMPS  0.0  0.0  0.0	TOTAL	0.4		0.0	KVA		TOTAL DEMAND LOA	D		
TYPE L R M H	LIGHTING RECEPTACLE MOTOR HEATING	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	FACTOR 1.25 NEC NEC 1.00	0.0 0.0 0.0 0.0	ON LOAD  AMPS  0.0  0.0  0.0  0.0  0.0	TOTAL	0.4		0.0	KVA		TOTAL DEMAND LOA	D		

4G/5G LOAD ANALYSIS

NOT TO SCALE





VERIZON

SMALL CELL NODE

CONSTRUCTION PLANS FOR

PROPOSED ANTENNA

SITES

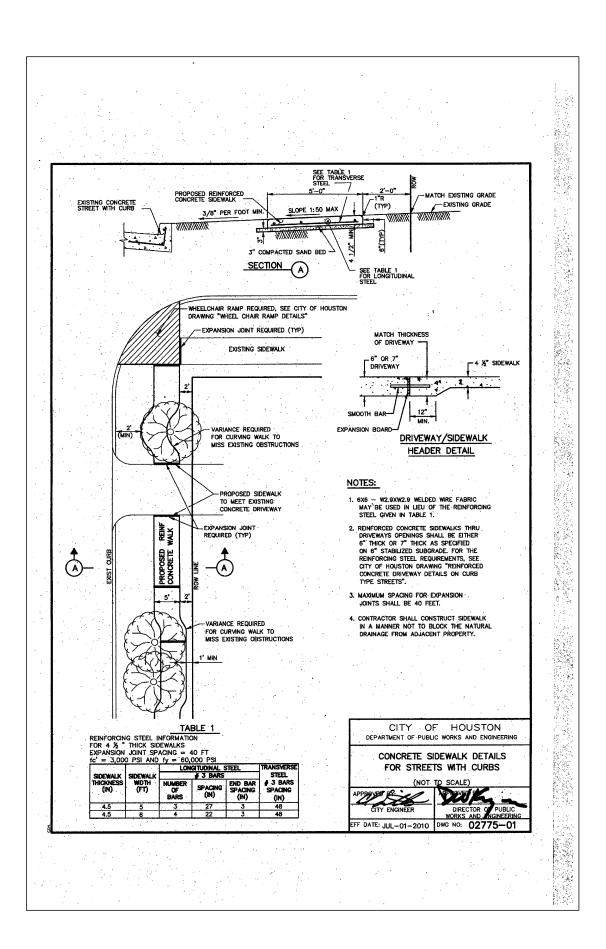
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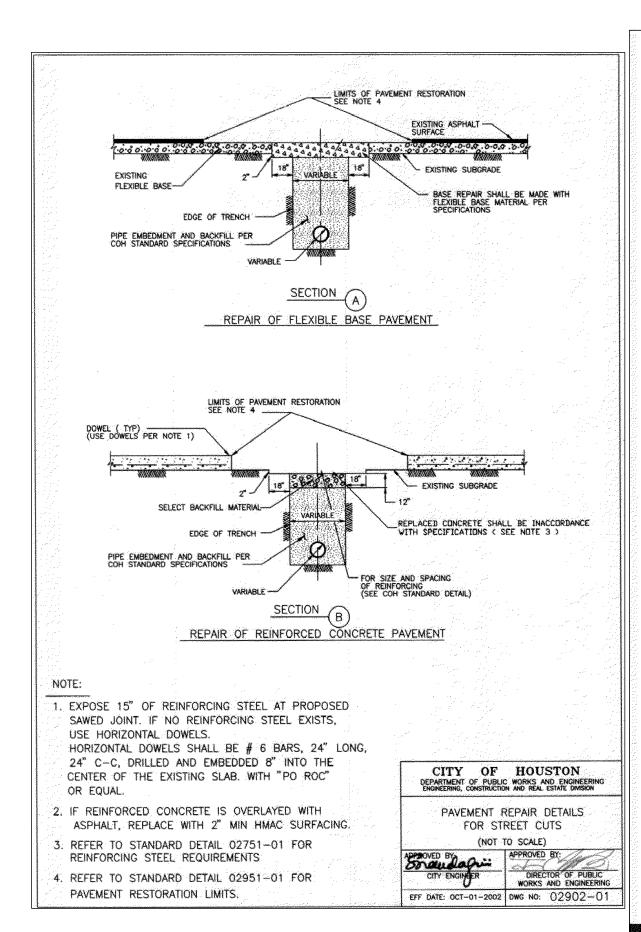


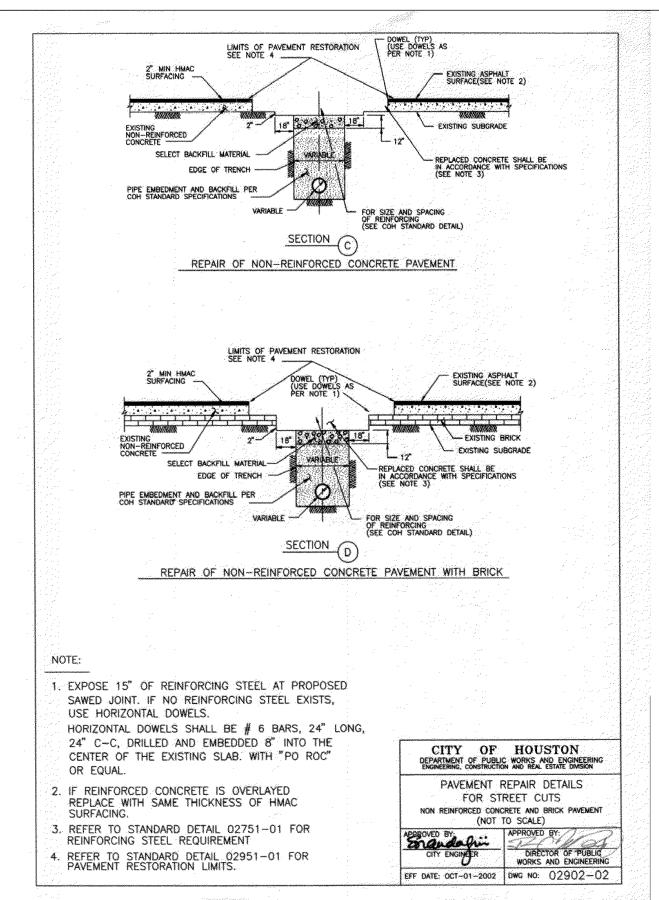
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DRAWN: JG
CHECKED: JG

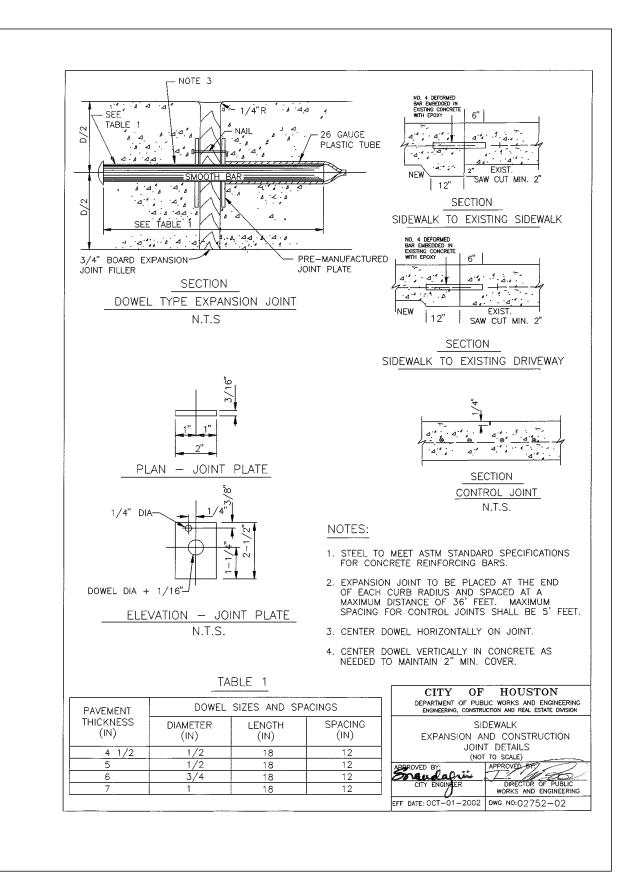
JOB #: 23\_V1S-016

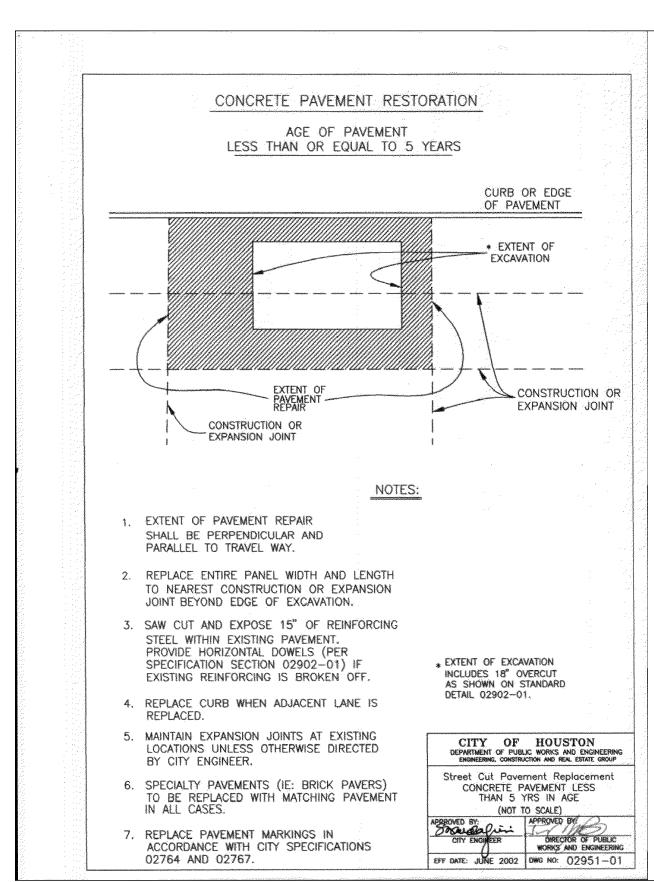
ONE LINE
AND LOAD
ANALYSIS

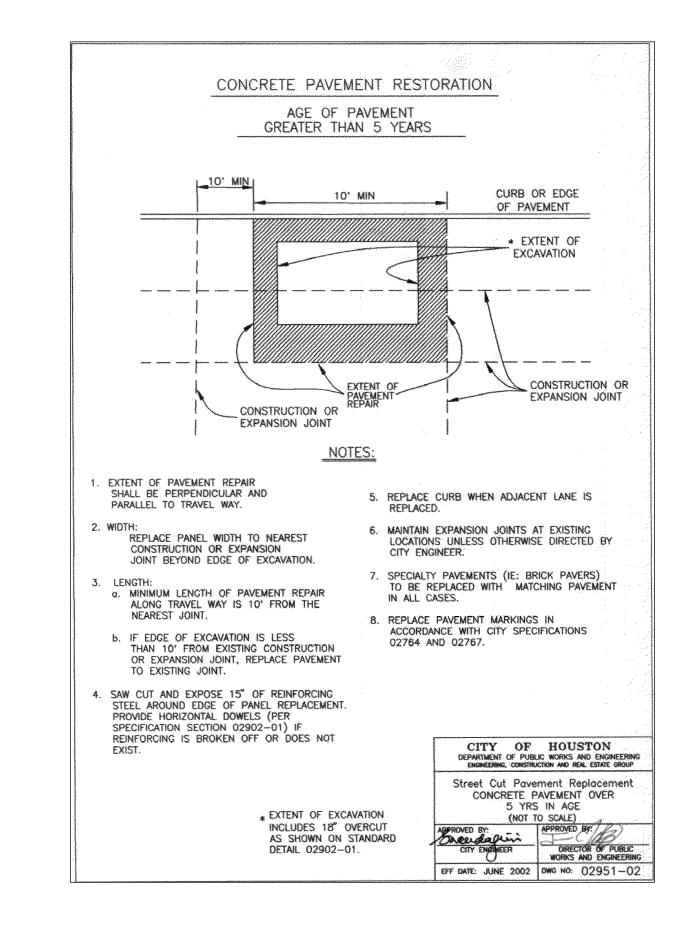


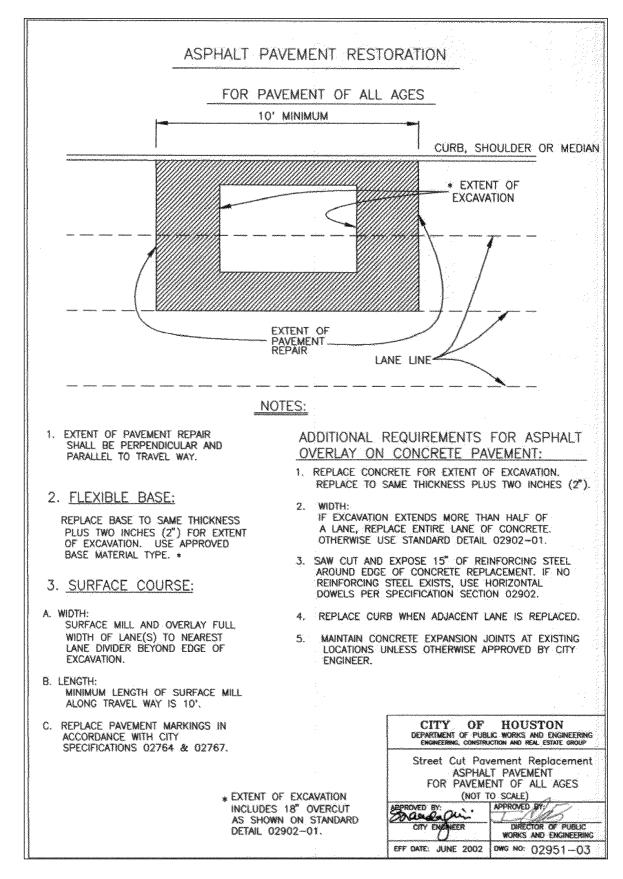












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SMALL CELL NODE

CONSTRUCTION PLANS FOR

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SITES

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2	04/03/24	3RI	) SUBMITTAL
3	03/06/25	RE	V. PER RFDS
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DESIGNED: JG
DRAWN: JG
CHECKED: JG

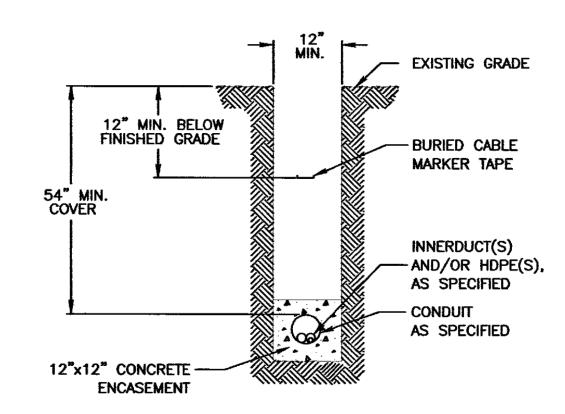
JOB #: 23\_V1S-016

**DETAILS** 

# GENERAL CONSTRUCTION DETAILS

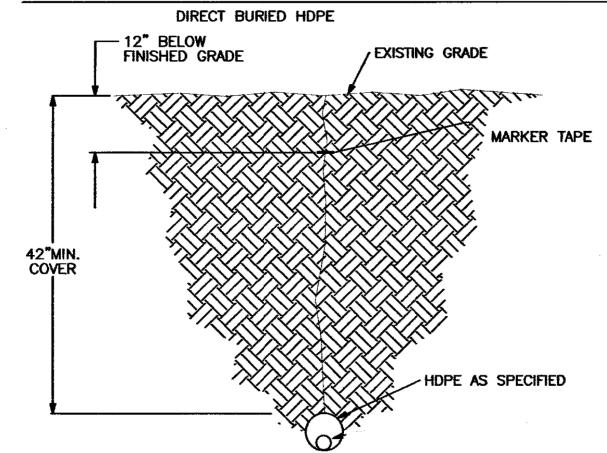
# TYPICAL DETAIL "B" INDUSTRY STANDARD

12"x12" CONCRETE ENCASEMENT



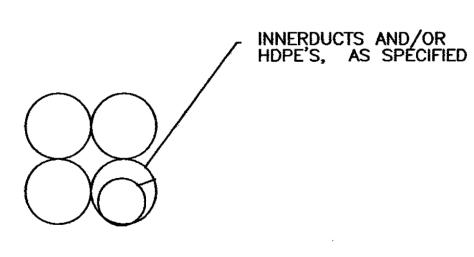
BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

# TYPICAL DETAIL "C" INDUSTRY STANDARD



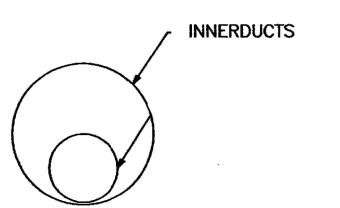
# INDUSTRY STANDARD

CROSS SECTION OF NNERDUCT(S) AND/OR HDPE(S) AS SPECIFIED

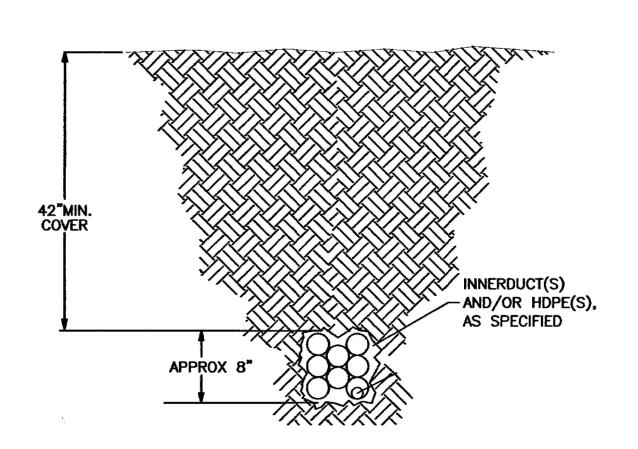


INDUSTRY STANDARD TYPICAL DETAIL "E"

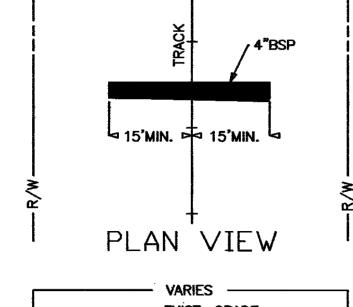
HDPE WITH CABLE CROSS SECTION

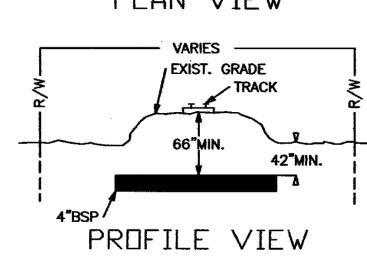


# TYPICAL DETAIL "H" INDUSTRY STANDARD DIRECTIONAL BORE HDPE



# INDUSTRY STANDARD TYPICAL DETAIL "F" JACK AND BORE MAIN TRACK





# INDUSTRY STANDARD TYPICAL DETAIL "G"

PROFILE VIEW

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VERIZON SMALL CELL NODE CONSTRUCTION PLANS FOR PROPOSED ANTENNA SITES

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**DETAILS 2** 

14 OF 16

TYPICAL	DETAIL	"A"	INDUSTRY	STANDARD
			PLACEMENT R DIRECT BURIED CABI	LE.
<u> </u>		_	6" IIN. EXISTING	GRADE
	2" MIN. BELOW INISHED GRADE		BURIED MARKER	
42" MIN COVER.			AND/0	DUCT(S) R HDPE(S), ECIFIED
NOTE:	,			

BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

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# Table 6H-2. Meaning of Symbols on Typical Application Diagrams

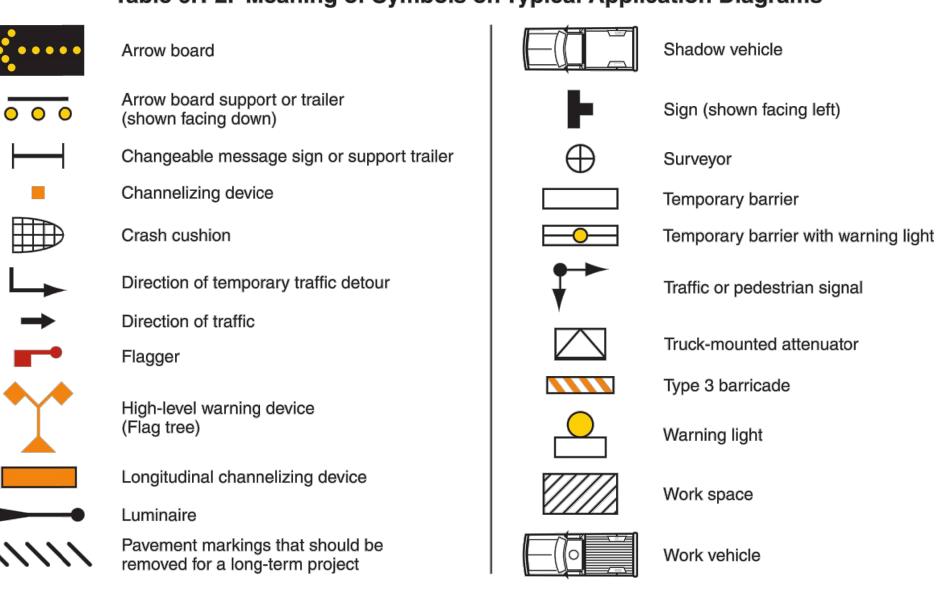


Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Dood Type	Distance Between Signs**				
Road Type	Α	В	С		
Urban (low speed)*	100 feet	100 feet	100 feet		
Urban (high speed)*	350 feet	350 feet	350 feet		
Rural	500 feet	500 feet	500 feet		
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet		

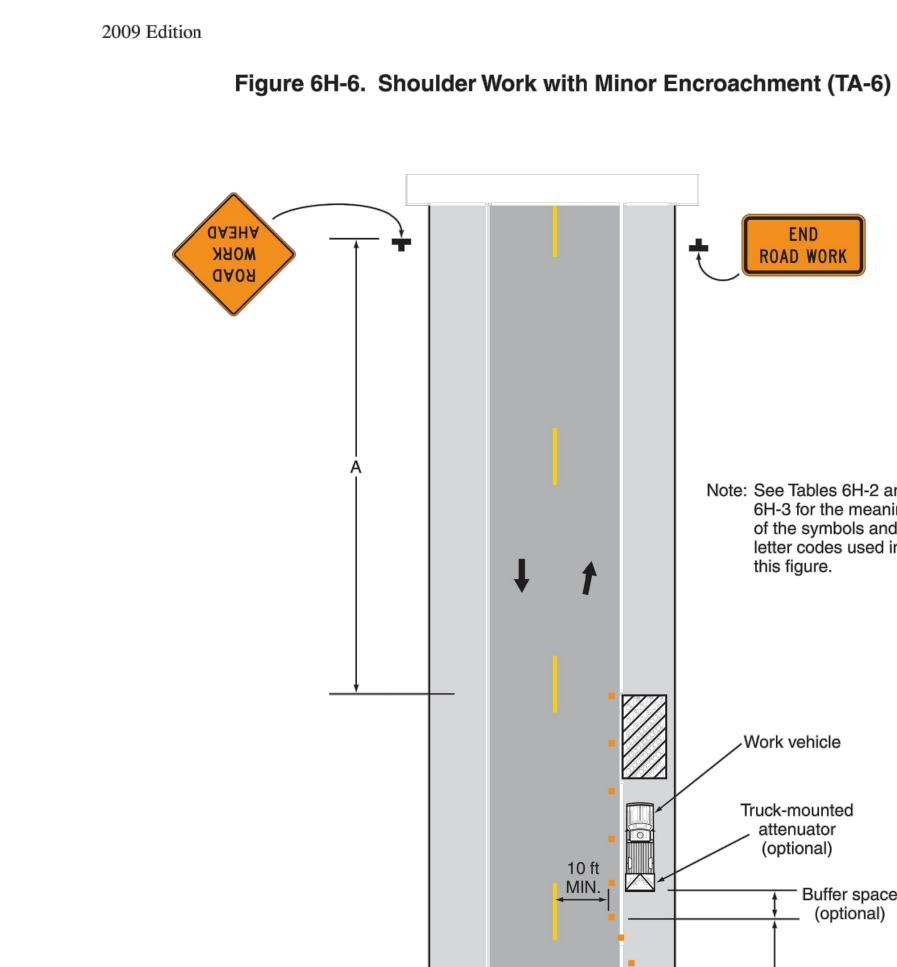
<sup>\*</sup> Speed category to be determined by highway agency

Table 6H-4. Formulas for Determining Taper Length

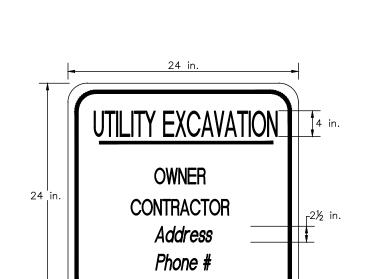
Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	L= WS

Where: L = taper length in feet

W = width of offset in feet



END



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ROAD WORK

Note: See Tables 6H-2 and

this figure.

/Work vehicle

Truck-mounted attenuator (optional)

1/3 L

Buffer space (optional)

10 ft

**Typical Application 6** 

6H-3 for the meaning

of the symbols and/or letter codes used in

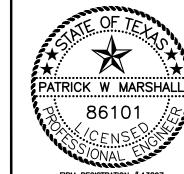
THE CONTRACTOR TO PLACE SIGNS PRIOR TO BEGINNING CONSTRUCTION AT THE BEGINNING AND END OF THE PROJECT LIMITS AND AT THE INTERSECTIONS. THE SIGNS ARE TO REMAIN UP 24 HOURS A DAY UNTIL THE UTILITY CONSTRUCTION AND THE PAVEMENT RESTORATION IS COMPLETE.

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VERIZON SMALL CELL NODE CONSTRUCTION PLANS FOR PROPOSED ANTENNA SITES

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0	06/13/23	15	T SUBMITTAL	
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2	04/03/24	3RI	o Submittal	
3	03/06/25	RE	V. PER RFDS	
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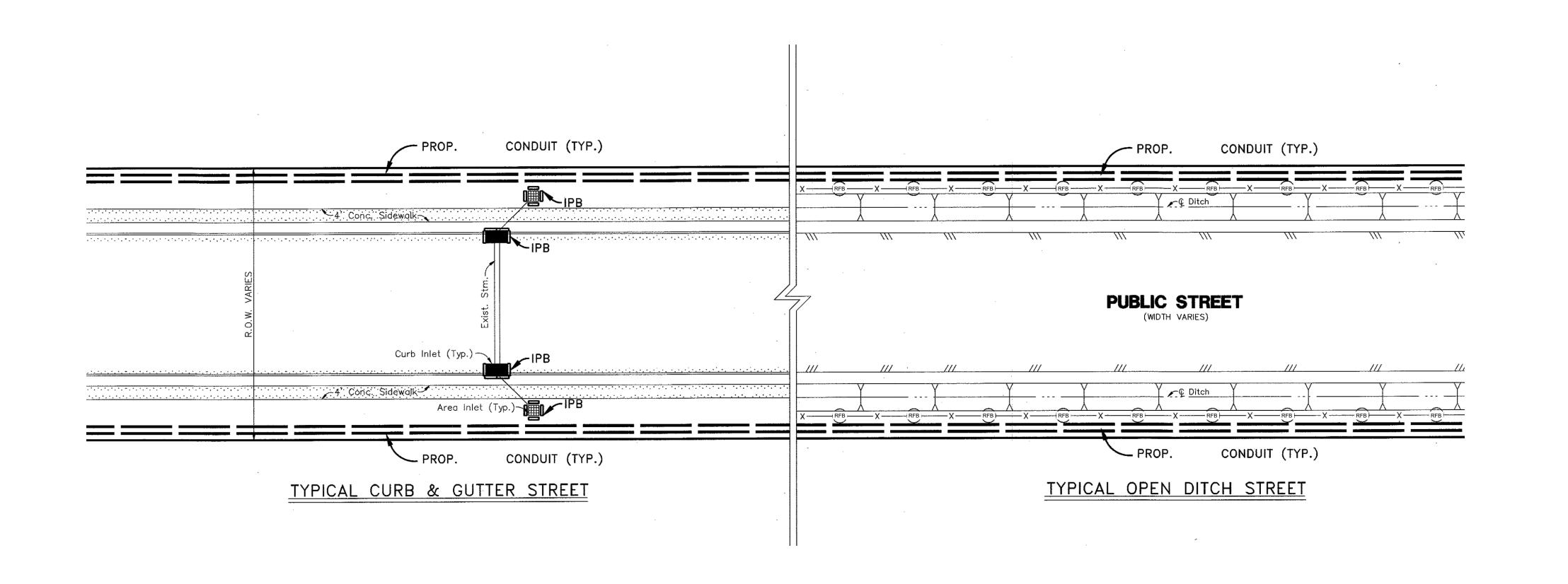
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**TCP** 

<sup>\*\*</sup> The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph







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**SWPPP**