

24.up.002



**NOTICE OF PROPOSED UTILITY WORK
IN WALLER COUNTY RIGHT-OF-WAY**

Formal notice is hereby given that Verizon Wireless (utility contractor) proposes to place a small cell node - Tamarron SC1 within the right-of-way of 1383 Jordan Ranch Blvd, Katy, TX 77494 as follows: (street)

Provide details for location, length, construction method, design (i.e. the dimensions from ROW line, edge of curb or pavement), etc.

***Detail scope of work listed in attached construction drawings

The Small Cell Node will be constructed and maintained on the road right-of-way as directed by Waller County Road & Bridge in accordance with governing laws. Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual on Uniform Traffic Control Devices required for adoption by the "Transportation Code" (Ch 251).

The location and description of the proposed work and appurtenances is more fully shown by three (3) copies of drawings attached to this notice.

Construction is proposed to begin on or after the 15th day of January, 2024. Firm: JM Hodges, Inc. on behalf of Verizon Wireless Address: SH26 Lake Cherokee
Henderson, TX 75652
By: Becky Capt
Signature: Becky Capt Phone: 817-528-7875
Title: Site Acquisition Specialist Email: becky@jmhodges.com

APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said Waller County does not hereby imply to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Waller County, for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Waller County Engineer or Road Administrator with thirty (30) days written notice.

This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners. Permit shall be effective upon acceptance date of Formal Notice presentation in Commissioners Court, for a duration of one (1) year, with the opportunity of a six (6) month extension after a written request is sent and approved by the County Engineer.

APPROVED BY WALLER COUNTY ROAD & BRIDGE DEPT.

[Signature]
County Engineer or Road Administrator

1-19-24

Date

Traffic Controls Required: Y N

Traffic Controls Reviewed By: VH

Bond: Y N Bond Amount (\$): _____

Floodplain Dev. Permit Required: Y N

Permit #: _____ Precinct #: 4

R&B Inspector: Vincent Henson

PERMIT TO CONSTRUCT UTILITY IN WALLER COUNTY RIGHT-OF-WAY

ROAD: **1383 Jordan Ranch Blvd, Katy**

DATE: **1/24/2024**

To: JM Hodges, Inc.
[Verizon Wireless]
SH 26 Lake Cherokee
Henderson, TX 75652
Permit # 24.UP.002

The location on the right-of-way of your proposed buried line as shown by the accompanying notice dated **01/15/2024** is approved.

Your attention is directed to Art. 1436A (for power lines) and Art. 1416 (for communication lines) Vernon's Annotated Texas Civil Statutes with particular attention to the following provisions:

1. The Court Commission may designate the place along the right-of-way where such lines shall be constructed.
2. Emplacement of buried lines shall be a minimum of 36 inches below the flow line of the existing ditch. For installations parallel to the right-of-way, the utility shall be located within three (3) feet of the edge of the right-of-way, unless otherwise approved by the County.
3. All placement of lines beneath roadways and asphalt or concrete paved driveways shall be jacked or bored. No open cut will be allowed within five feet of the edge of roadways or such driveways. Open cuts on unpaved driveways shall be performed only with a trenching machine and shall not be excavated. In such cases the trench shall be backfilled and compacted. The driveway surface shall be restored to its original condition. Any variance to these requirements shall have the Commissioners' Court approval.
4. All buried water lines shall be marked thoroughly with detectable tracer wire. All other lines shall be marked thoroughly with detectable underground warning tape. Public to be safe-guarded by use of construction signs and barricades. Identification markers shall be placed along right-of-way lines, that is readily identifiable, indicating name of Company, type of line and emergency contact number.
5. Restore roads to their original condition. Trench is to be back-tracked, dragged, graded and filled as necessary to minimize erosion and sedimentation resulting from the proposed installation. Ditches are to be left clear for drainage.
6. The Court Commission may require the owner to relocate this line, for valid reasons under the law by giving thirty (30) days written notice.

The contractor must notify the County Engineer at (979) 826-7670, forty-eight (48) hours prior to starting construction of the line in order that we may have a representative present. An inspection of the line installation is required prior to backfilling the excavation to confirm proper cover depth.

SPECIAL PROVISIONS:

WALLER COUNTY COMMISSIONERS' COURT

Carbett "Trey" J. Duhon III, County Judge

It is ORDERED by the Court on motion by Commissioner _____, duly seconded by Commissioner _____, that the above and foregoing request be and the same is hereby approved, with _____ members present voting in favor and _____ members present voting opposed. The County Engineer is authorized to comply with the above requests.

Date

Debbie Hollan, County Clerk

Deputy

The map displays the location of the Rammeron SC1 well (marked with a red dot) within the Fulshear Oil Field. The well is situated near the intersection of Highway 291 and Highway 29. Other labeled features include the Kely Oil And Gas Field, Freeman Rd, Morton Rd, and various other roads like Freeman Rd, Morton Rd, and Highway 291. The map is dated 1993 and includes a scale bar.

Sheet Number	Sheet Title
1	TITLE
2	NOTES
3	TAMARRON_SC1 OVERALL SITE PLAN
4	TAMARRON_SC1
5	TAMARRON_SC1 POWER DESIGN
6	TAMARRON_SC1 POWER DESIGN (2)
7	ELEVATION
8	SPEC SHEET 1
9	SPEC SHEET 2
10	SPEC SHEET 3
11	GROUNDING
12	ONE LINE AND LOAD ANALYSIS
13	DETAILS
14	DETAILS 2
15	TCP
16	SWPPP

**VERIZON
SMALL CELL
WALLER CO. PKG 2**

The Verizon logo, consisting of the word "verizon" in a bold, dark grey sans-serif font, followed by a red checkmark symbol.

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

[illegible]**TITLE**

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 VERIFY 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.

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**

[illegible]

DESIGNED: JG
DRAWN: JG
CHECKED: JG

JOB #:
PKG 2

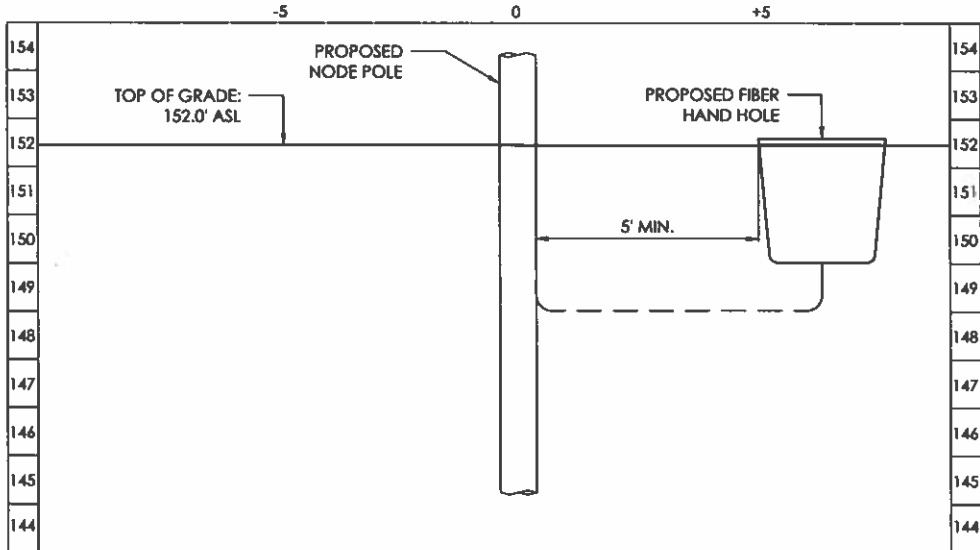
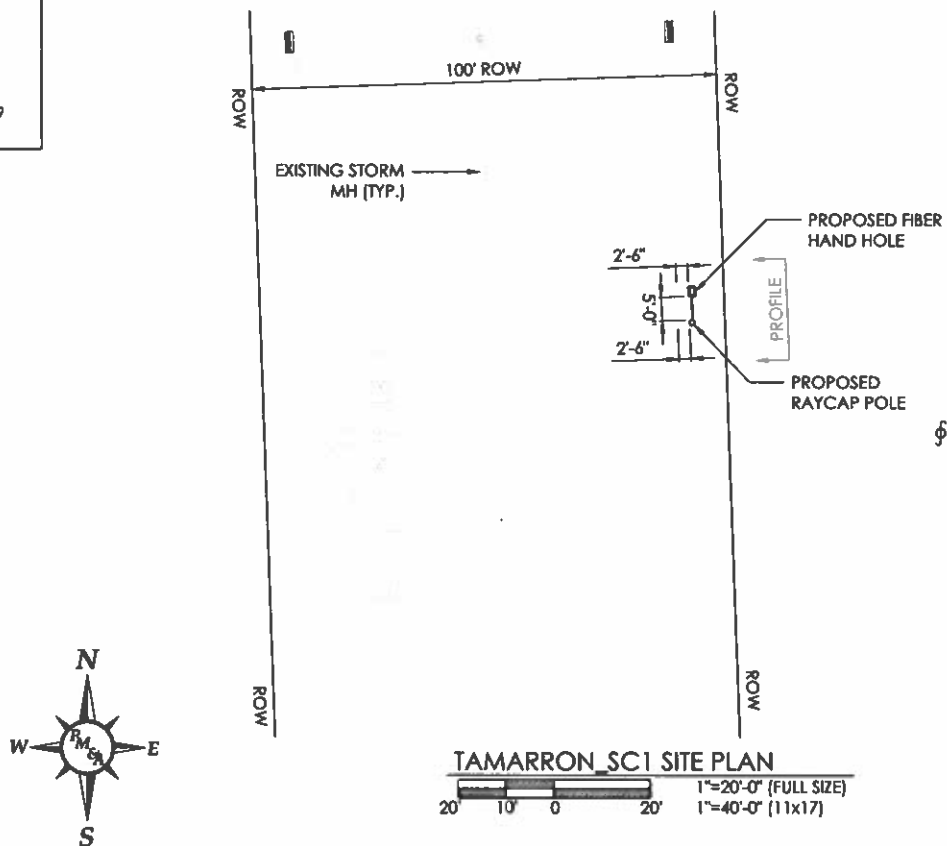
NOTES

FLOODPLAIN:
TAMARRON_SC1: 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.

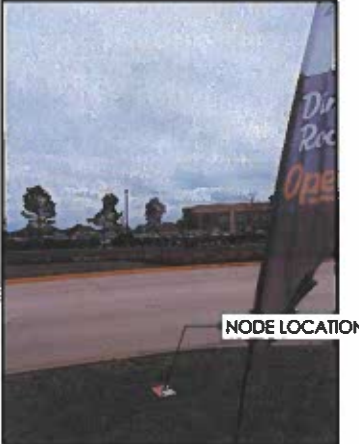
BENCHMARK:
TAMARRON_SC1: BENCHMARKS SHOWN HEREON REFERENCED TO HARRIS COUNTY FLOODPLAIN MARKER NO. 190073R. FROM THE INTERSECTION OF FROM I-10(WEST) AND PEDERSON RD. GO SOUTH ON TEXAS HERITAGE PARKWAY, GO SOUTH ON TEXAS HERITAGE PARKWAY 0.36 MILES TO THE BRIDGE OVER WILLOW FORK.

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

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

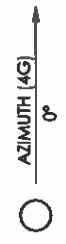


TAMARRON_SC1 PROFILE
SCALE: 1" = 2'-0"



SITE PHOTO
(FOR CONSTRUCTION USE ONLY)

AZIMUTHS
(FOR CONSTRUCTION USE ONLY)



VERIZON
SMALL CELL NODE
CONSTRUCTION PLANS FOR
PROPOSED ANTENNA
SITES

NO.	DATE	REVISIONS
0	06/13/23	1ST SUBMITTAL
0	11/28/23	2ND SUBMITTAL



DESIGNED: JG
DRAWN: JG
CHECKED: JG
JOB #:
23_V1S-016

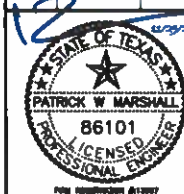
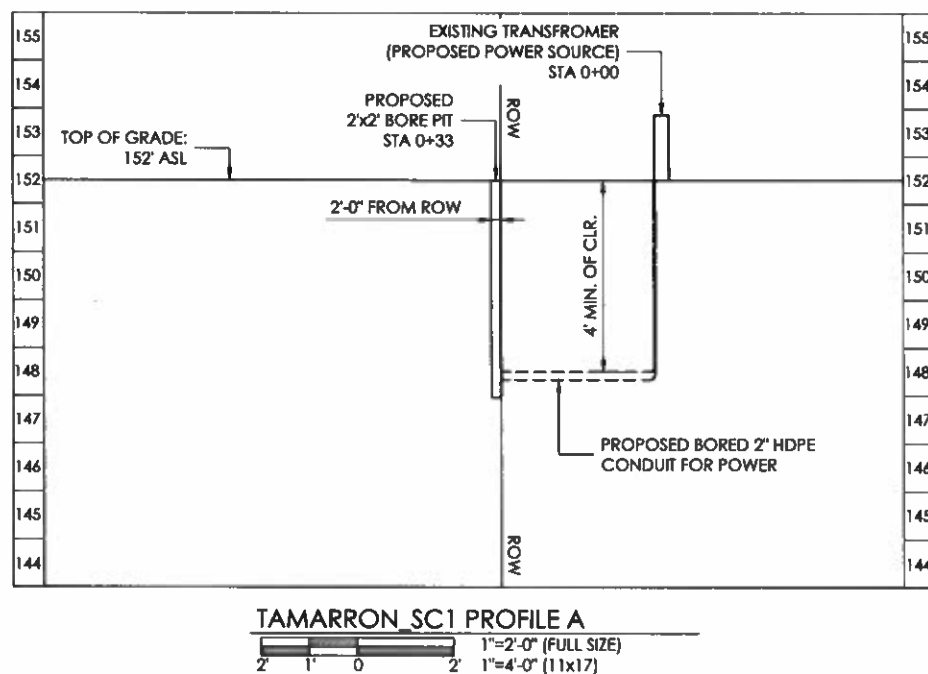
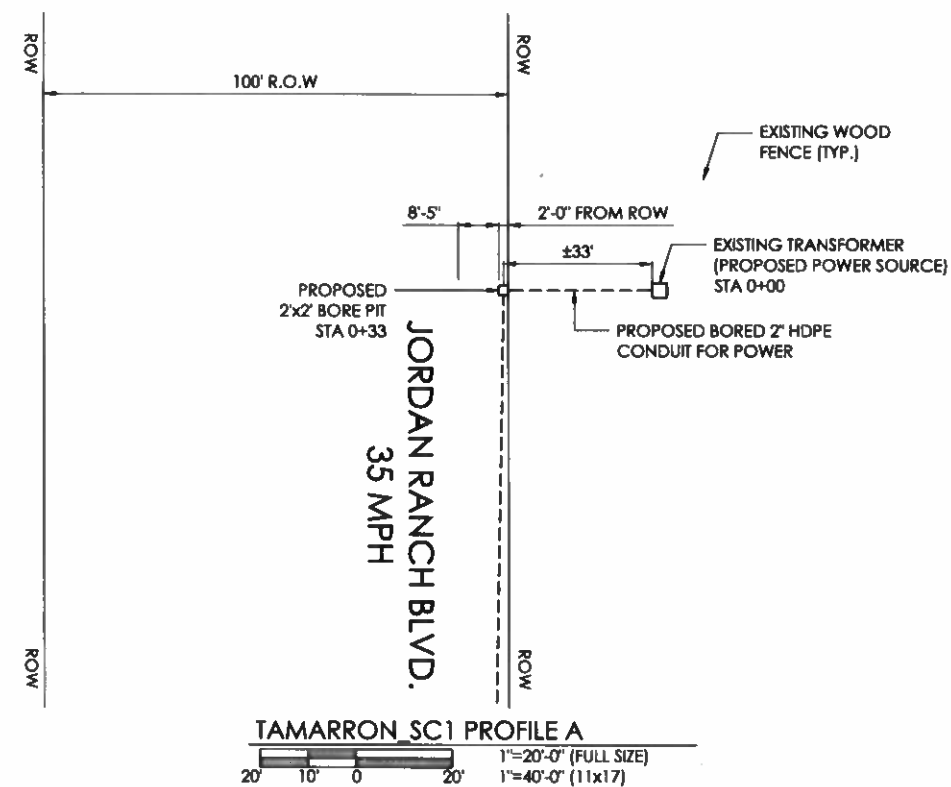
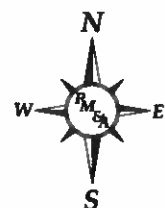
TAMARRON_SC1

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



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CHECKED: JG

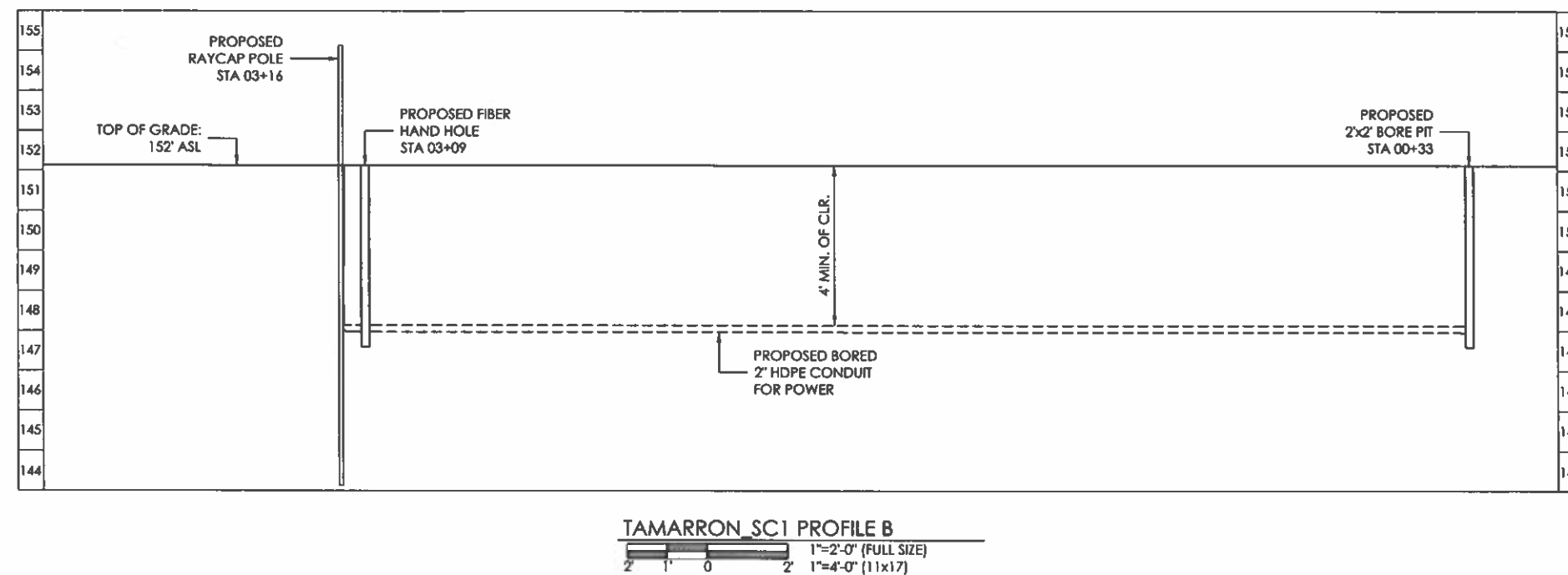
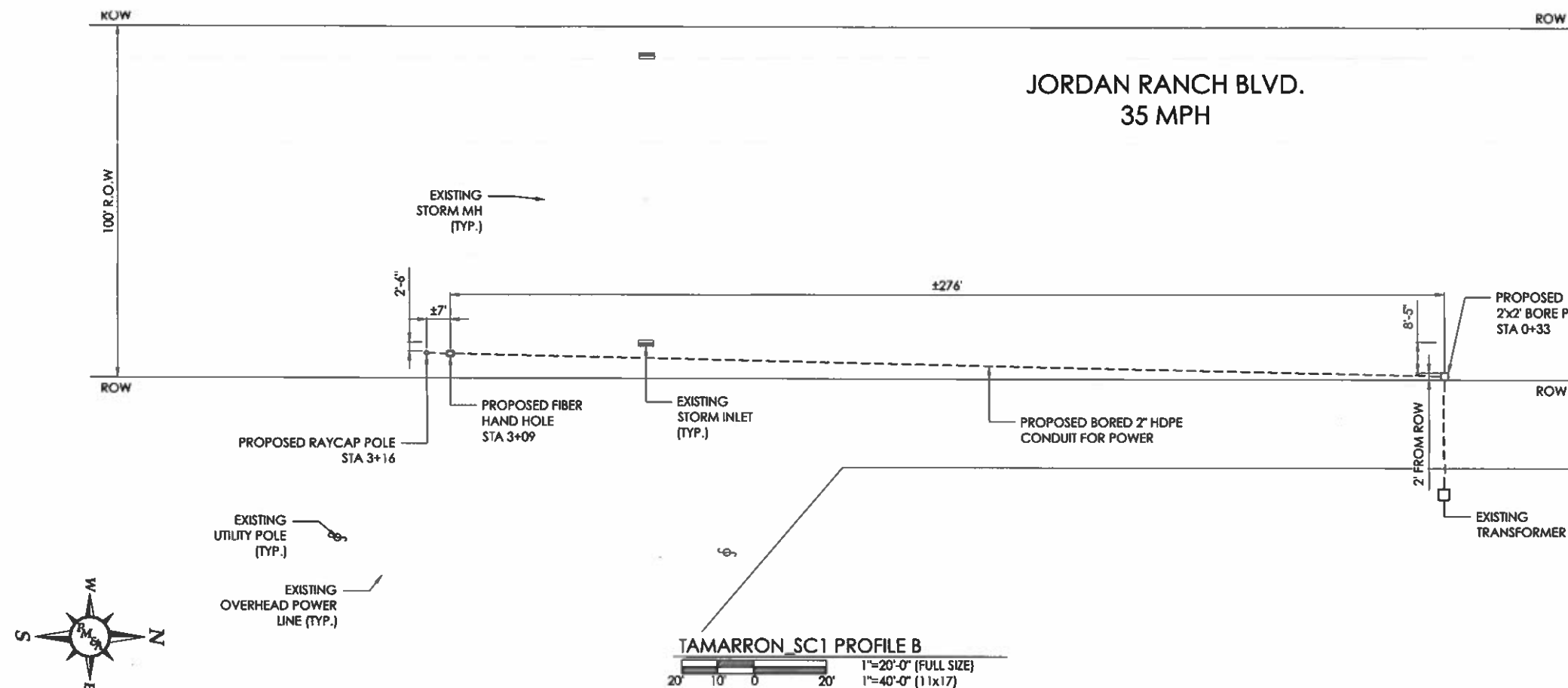
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TAMARRON_SC1
POWER DESIGN

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

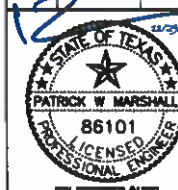
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TAMARRON_SC1
POWER DESIGN 2





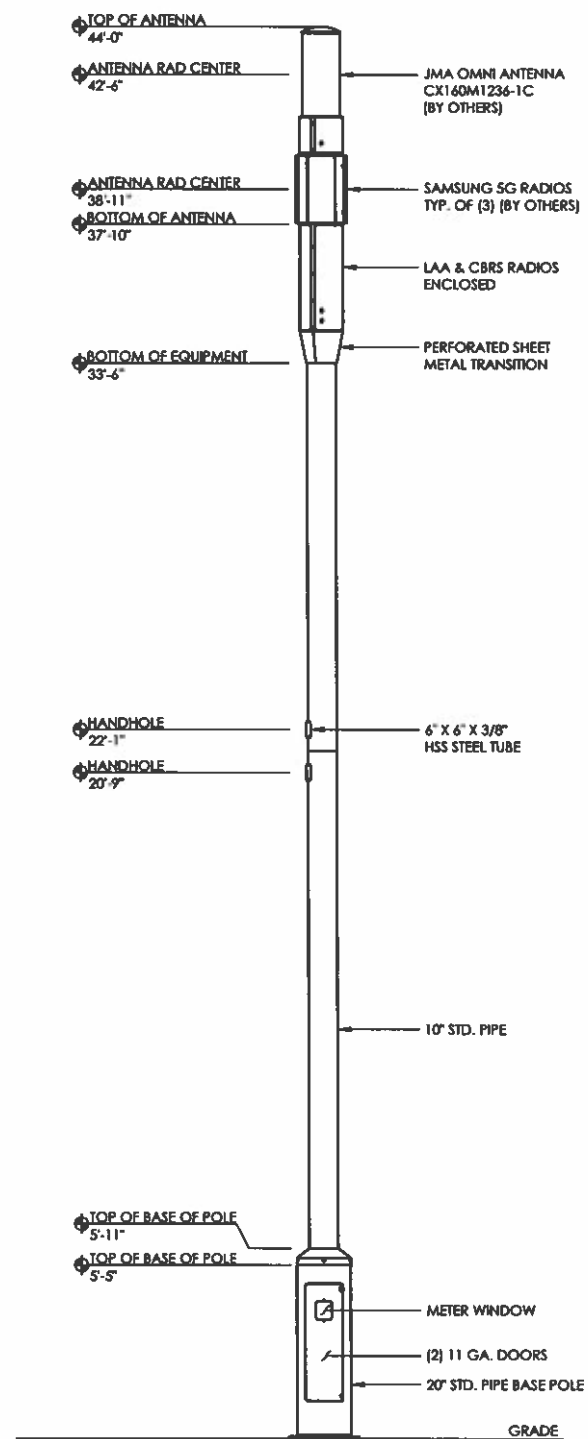
VERIZON
SMALL CELL NODE
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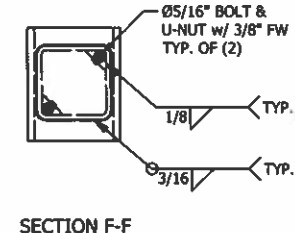
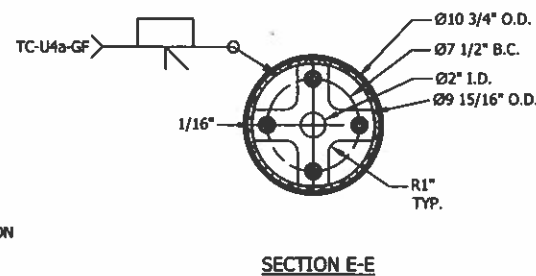
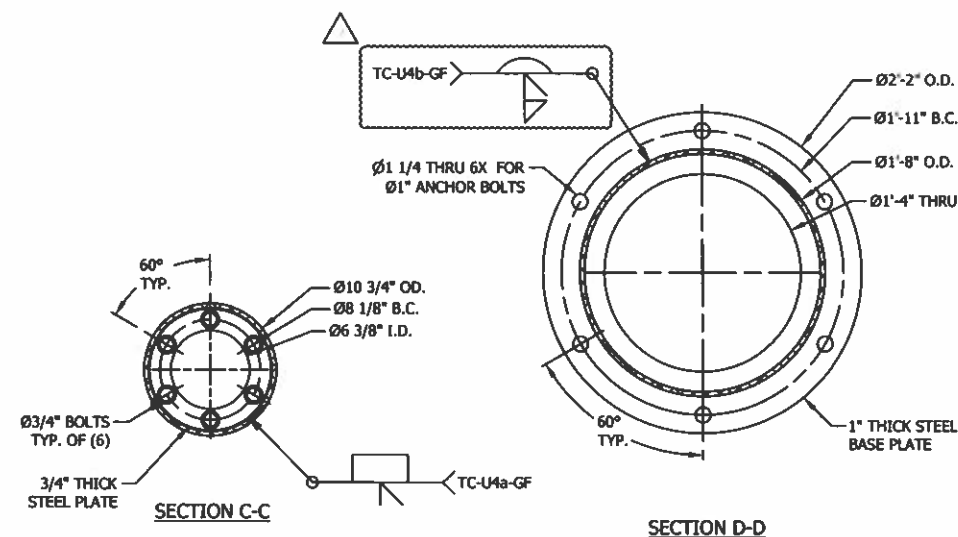
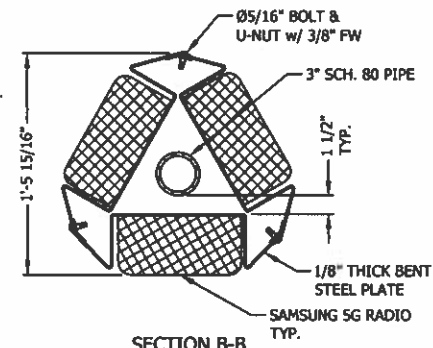
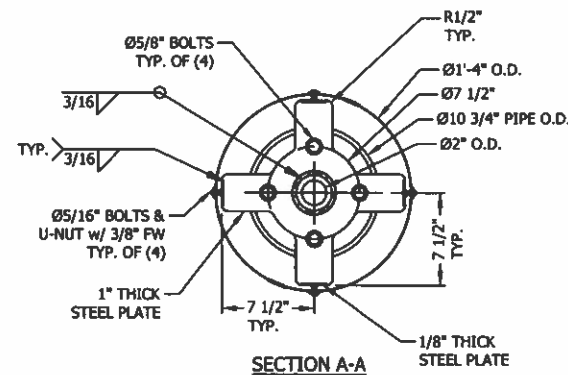
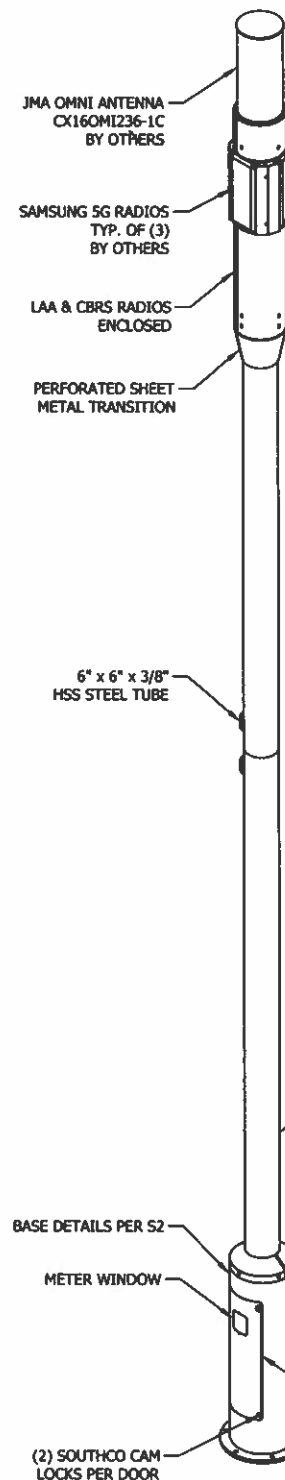
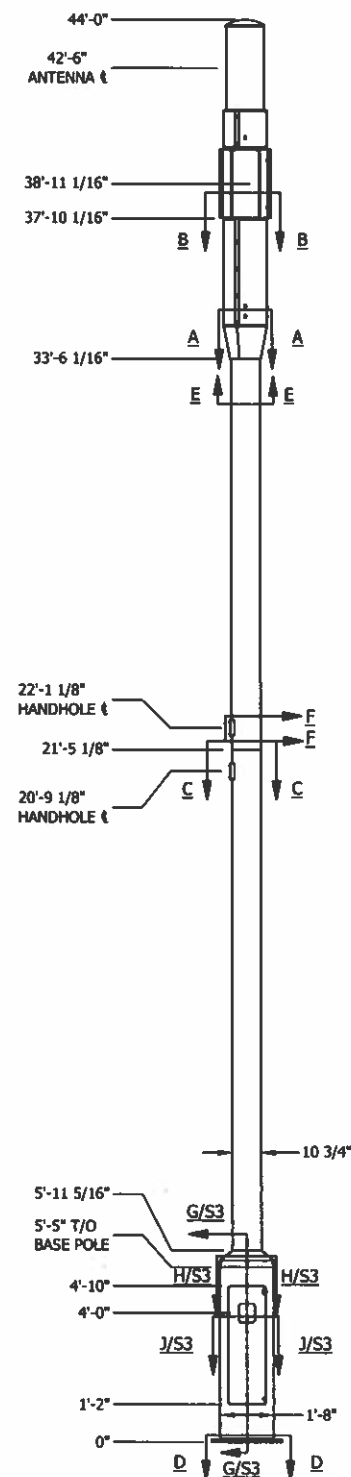
DESIGNED: JG
DRAWN: JG
CHECKED: JG

JOB 1:
PKG 2

ELEVATION



ELEVATION VIEW 4G RAYCAP STEALTH POLE
NOT TO SCALE



Raycap | STEALTH

755-A PALMETTO COMMERCE PARKWAY
NORTH CHARLESTON, SC 29420 USA
P: (800) 755-0689 F: (843) 207-0207
WWW.STEALTHCONCEALMENT.COM

PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO STEALTH CONCEALMENT SOLUTIONS, INC. IS STRICTLY PROHIBITED.



DRAWING NOT TO SCALE, UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

TOLERANCES

DECIMALS: ± 0.01"

ANGULAR: ± 0.5°

ASSEMBLY - ELEVATIONS

VERIZON WIRELESS
HOUSTON POLES
HOUSTON, TX

JOB #: VZ19-00650H-31R3
DRAWN: DSP
DESIGNED: APS
REVISED: NB+C

S1

08-01-19

7

verizon

PM&A
P. MARSHALL & ASSOCIATES

VERIZON
SMALL CELL NODE
CONSTRUCTION PLANS FOR
PROPOSED ANTENNA
SITES

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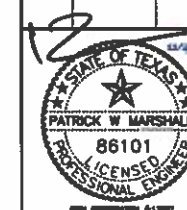
JOB #:
PKG 2

SPEC SHEET 1



VERIZON
SMALL CELL NODE
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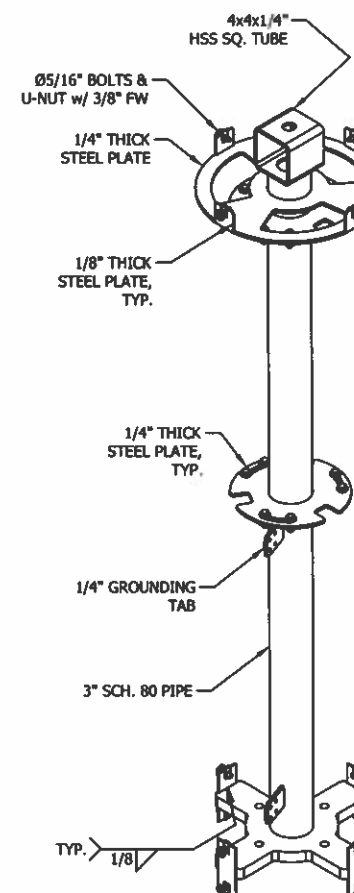
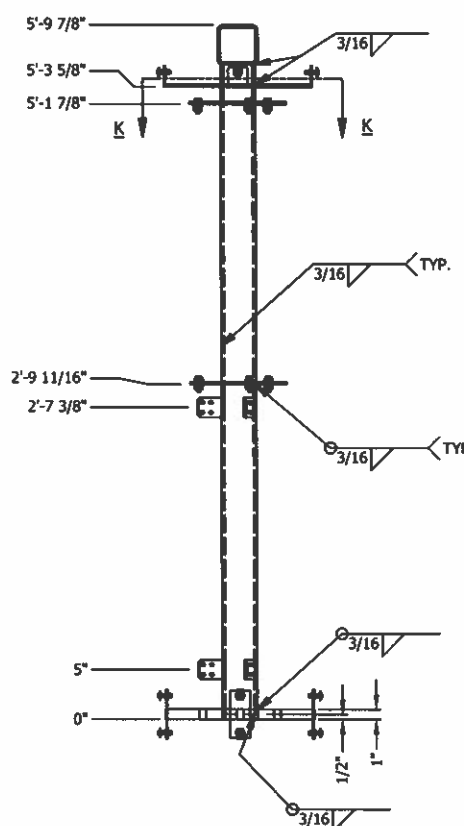
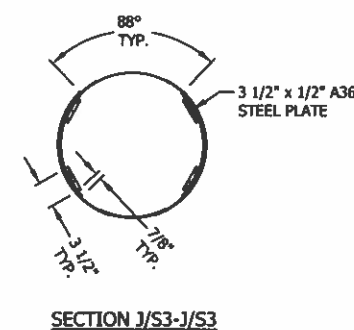
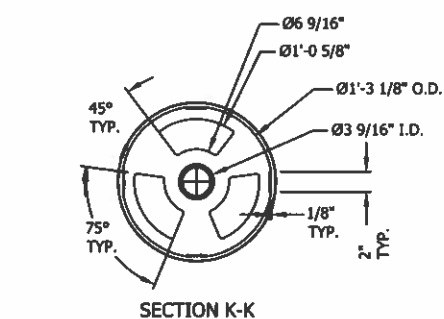
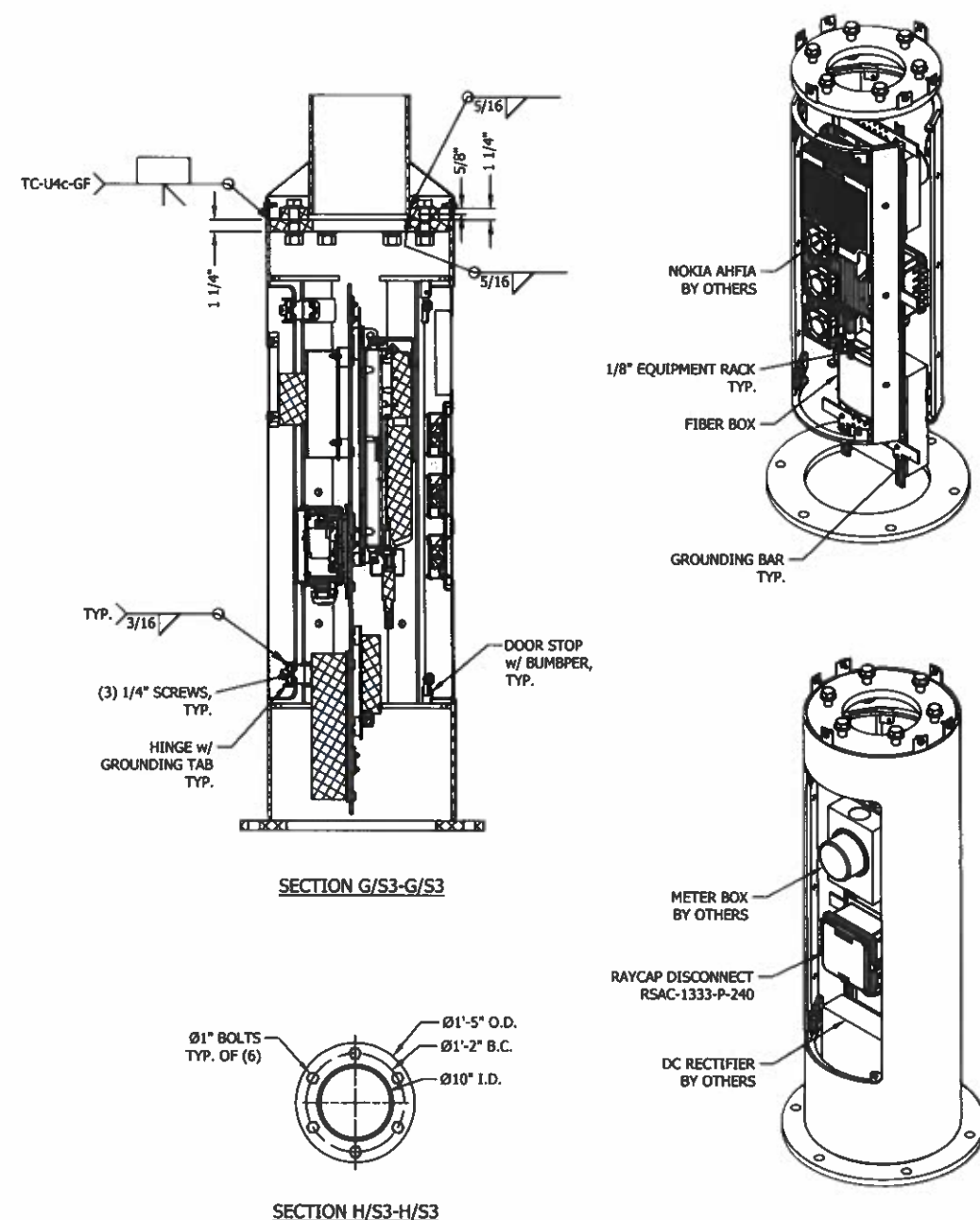
DESIGNED: JG
DRAWN: JG
CHECKED: JG

JOB #
PKG 2

SPEC SHEET

2

9 OF 16



Ravcap **STEALTH**

7555-A PALMETTO COMMERCE PARKWAY
NORTH CHARLESTON, SC 29420 USA
P: (800)-755-0689 F: (843)-207-0207
WWW.STEALTHCONCEALMENT.COM

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DRAWING NOT TO SCALE. UNLESS SPECIFIED
OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

DECIMALS		ANGULAR	
X ± 1/16"		X ± 0.5	
XXX ± 0.01"			

ASSEMBLY - ELEVATIONS

VERIZON WIRELESS
HOUSTON POLES
HOUSTON, TX

JOB #:	V219-00656H-31R3
DRAWN:	DSP
DESIGNED:	ARS
REVISED:	NB+C

\$5

08-01-19

12

FOUNDATION NOTES:
 1. THE IN-SITU SOILS ARE AS SHOWN ON THE 2012 INTERNATIONAL BOREHOLE LOG (PSF AND 150 PSF/FT BELOW TABULAR VALUE) HAS BEEN OBTAINED FROM THE 2012 INTERNATIONAL BOREHOLE LOG.
 2. EXCAVATION SHALL BE PROVIDED TO THE APPROVED INSPECTOR (CONTRACTOR) TO VERIFY CAPACITY AND SOIL CHARACTERISTICS VARY FROM THE BOREHOLE LOG PRIOR TO INSTALLATION OF THE PILE.
 3. STRUCTURAL FILL SHALL BE PROVIDED TO THE APPROVED INSPECTOR (CONTRACTOR) TO VERIFY CAPACITY AND SOIL CHARACTERISTICS VARY FROM THE BOREHOLE LOG PRIOR TO INSTALLATION OF THE PILE.

20" STD. PIPE
 BASE POLE

26" ϕ x 1" FLANGE PLATE

GRADE

1'-0"

4" x 12" ENTRY PORT
 (TYP OF 2, 180° OPPOSED)

3/8"

20" STD. ASTM A500 GR. B PIPE

6"

STRUCTURAL FILL TO BE
 COMPACTED IN 8" LIFTS TO
 95% PROCTOR

3/8"

3"

26" ϕ x 1/2" A36 PLATE

2'-8"

8'-0"

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DRAWING NOT TO SCALE, UNLESS SPECIFIED
OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

TOLERANCES

<u>DECIMALS</u>	<u>ANGULAR</u>
$X \pm 1/16$	$X \pm 0.5^\circ$
$.00X \pm 0.01"$	

44' POLE FOUNDATION DETAILS

**VERIZON WIRELESS
HOUSTON POLES
HOUSTON, TX**

JOB #: VZ19-00656H-31R3

DRAWN: DSP

DESIGNED: ARS

REVISÉ: NB+

\$5

08-01-1

7



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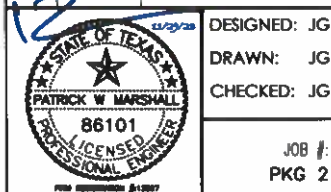
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DRAWN: JG
CHECKED: JG

JOB #:
PKG 2

10 OF 16

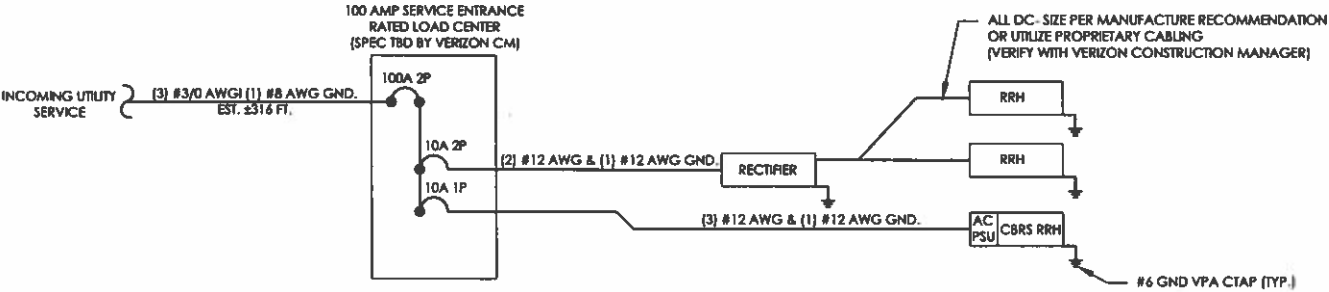


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11 OF 16

VERIZON
SMALL CELL NODE
CONSTRUCTION PLANS FOR
PROPOSED ANTENNA
SITES



TAMAARRON SC1 ONE LINE DIAGRAM
NOT TO SCALE

PANEL NAME			LOCATION:			VOLTAGE: 208 V/120V 3 PHASE						MOUNTING / ENCLOSURE: EXISTING / NEMA 3R												
(P) LV PANEL			SMALL CELL NODE			MAIN CB: 100						AVAIL. FAULT CURRENT:												
12/20/2018						SUB RATING: 100 AMPS						SHORT CIRCUIT RATING: 14,000												
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION			KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION			TYPE	POLES	AMPS						
			BLANK			0.00	1	0.36				2	0.36	RECTIFIER				2	10					
			BLANK			0.00	3		0.36			4	0.36											
			BLANK			0.00	5	0.75				6	0.75	CBRS				1	10					
			BLANK			0.00	7					8	0.00	BLANK				1						
			BLANK			0.00	9					10	0.00	BLANK				1						
			BLANK			0.00	11					12	0.00	BLANK				1						
PHASE TOTAL						1.15		0.4	0.3		KVA	TOTAL CONNECTED LOAD							1 KVA	10 A				
						SUB FEED LOADS														TOTAL DEMAND LOAD			1 KVA	10 A
						0			0	0														
* HACR TYPE BREAKER																								
** GROUND FAULT CIRCUIT INTERRUPTER BREAKER																								
*** ARC FAULT CIRCUIT INTERRUPTER BREAKER																								

4G LOAD ANALYSIS
NOT TO SCALE

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DRAWN: JG
CHECKED: JG

JOB #
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ONE LINE
AND LOAD
ANALYSIS

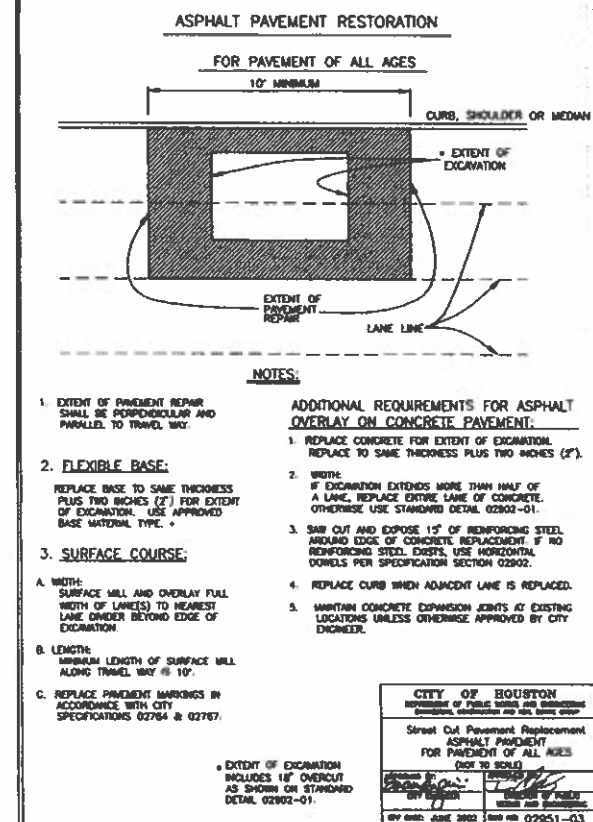
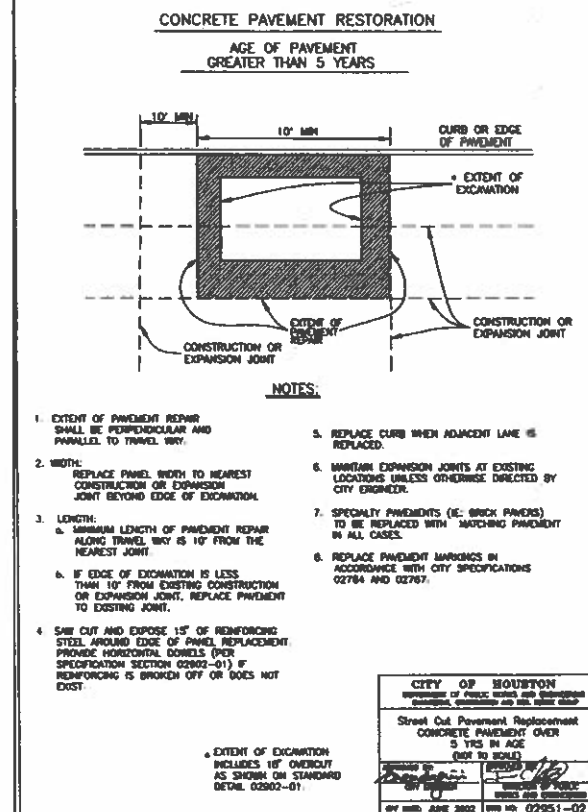
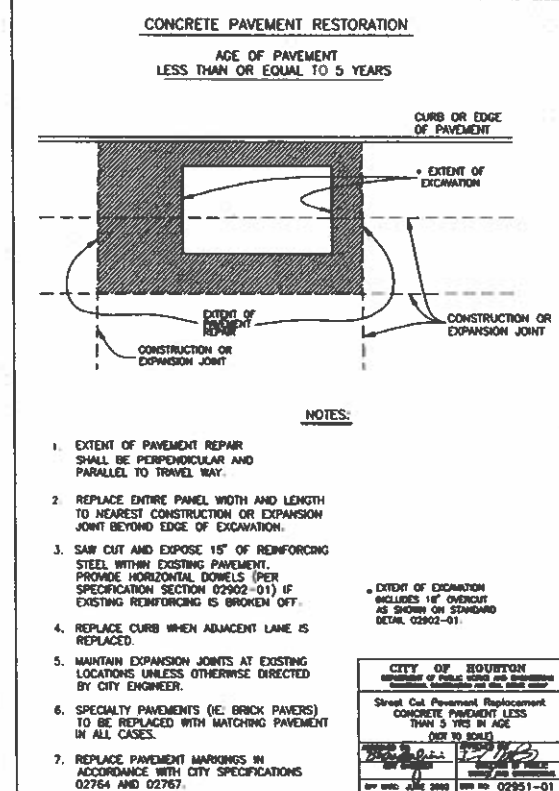
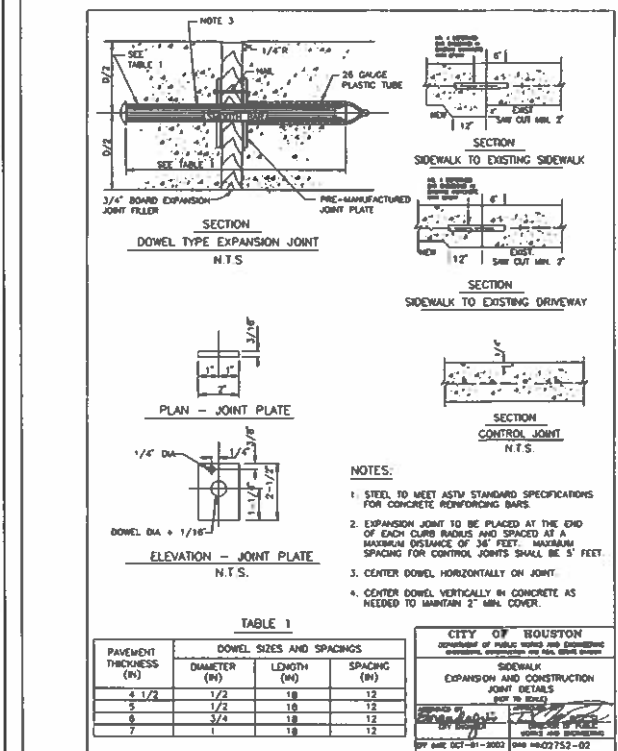
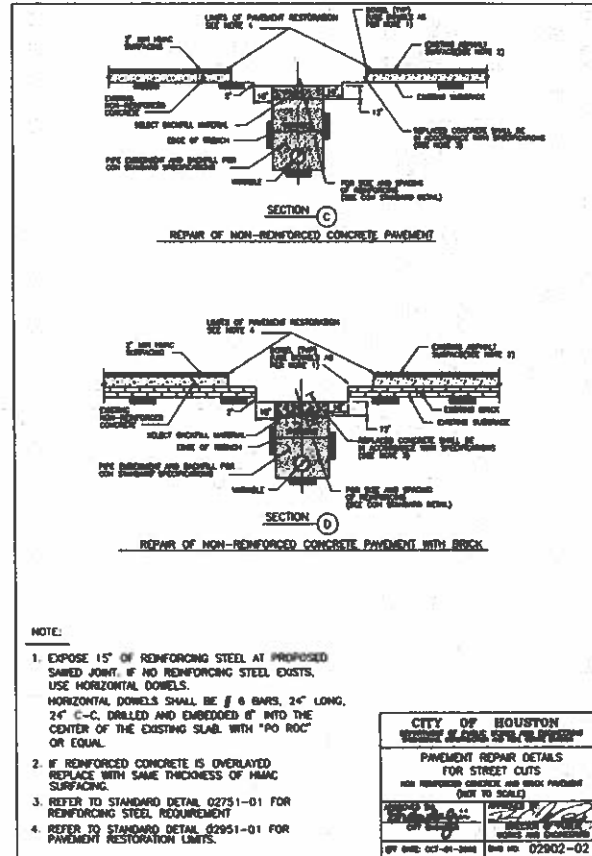
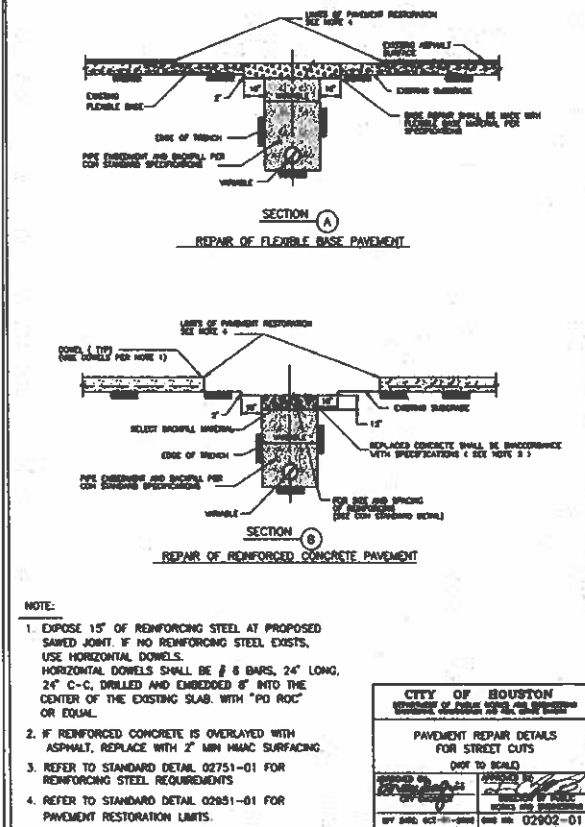
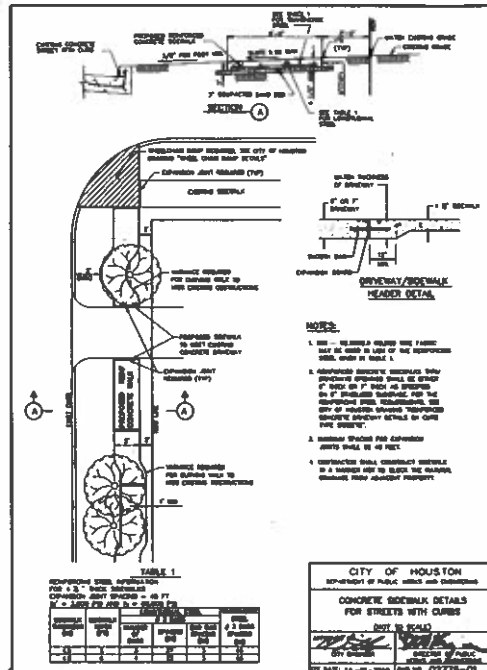
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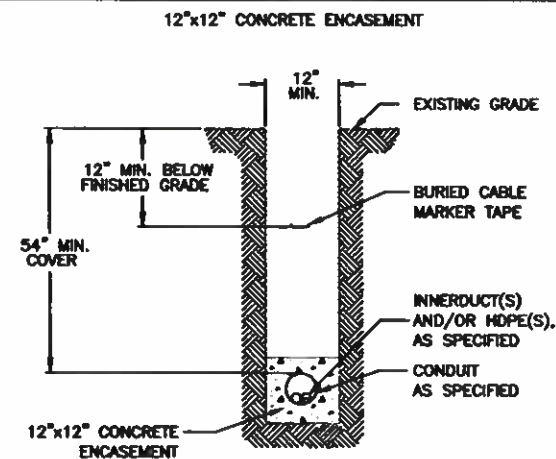
JOB #
PKG 2

DETAILS



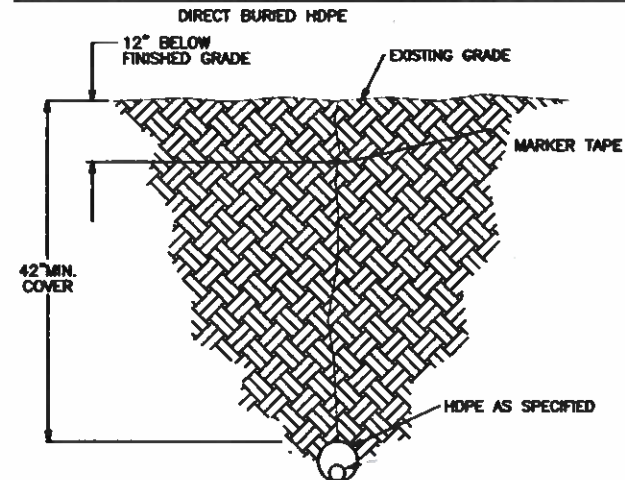
GENERAL CONSTRUCTION DETAILS

TYPICAL DETAIL "B" INDUSTRY STANDARD

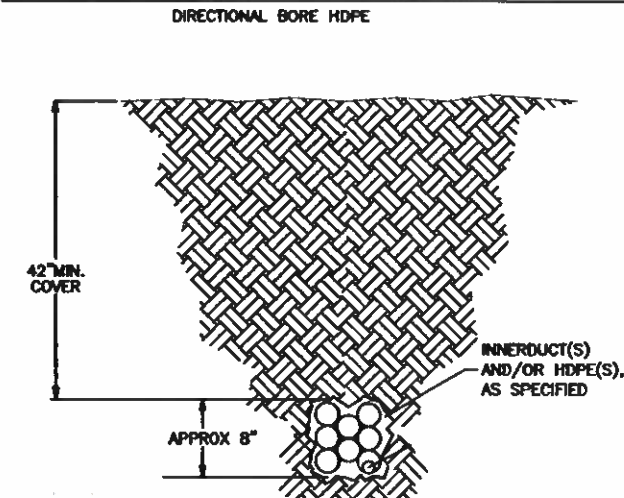


NOTE:
BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

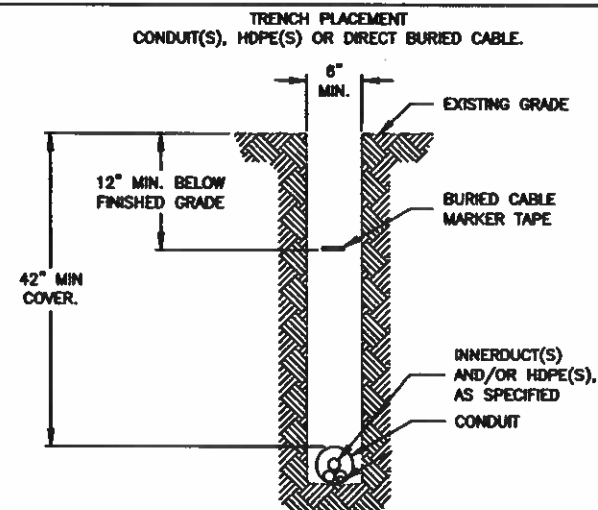
TYPICAL DETAIL "C" INDUSTRY STANDARD



TYPICAL DETAIL "H" INDUSTRY STANDARD



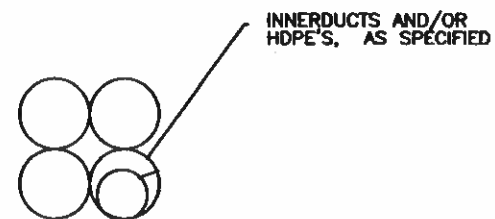
TYPICAL DETAIL "A" INDUSTRY STANDARD



NOTE:
BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

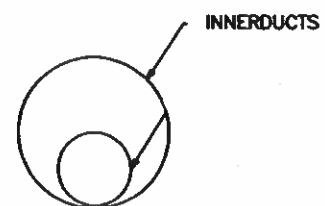
INDUSTRY STANDARD
TYPICAL DETAIL "D"

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



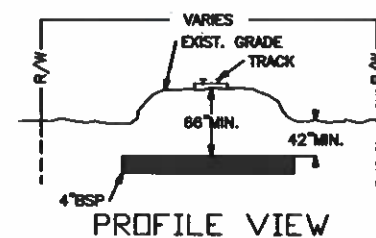
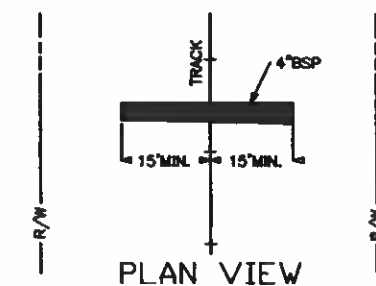
INDUSTRY STANDARD
TYPICAL DETAIL "E"

HDPE WITH CABLE CROSS SECTION



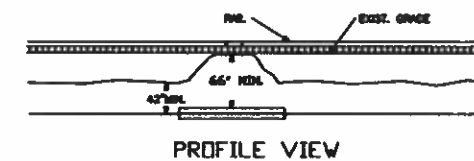
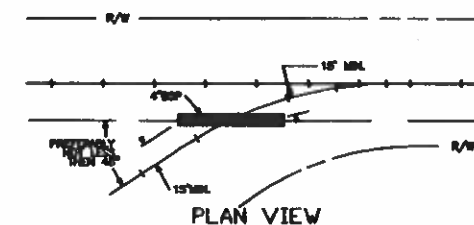
INDUSTRY STANDARD
TYPICAL DETAIL "F"

JACK AND BORE MAIN TRACK



INDUSTRY STANDARD
TYPICAL DETAIL "G"

JACK AND BORE ABSOLUTE TRACK

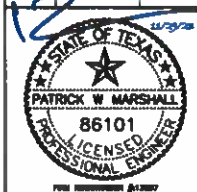


verizon

PM&A
P. MARSHALL & ASSOCIATES

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DETAILS 2

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

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		

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

Road Type	Distance Between Signs**		
	A	B	C
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

* Speed category to be determined by highway agency

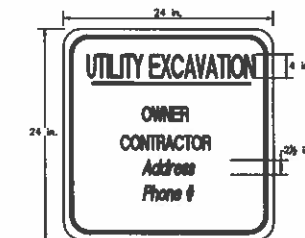
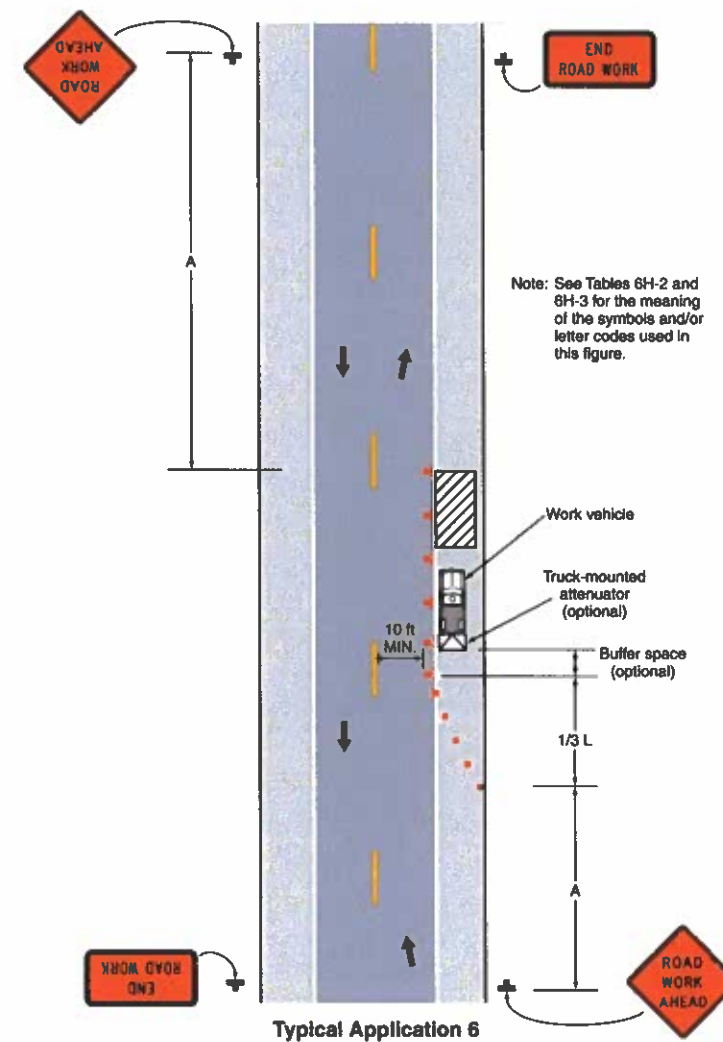
** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second 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.)

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

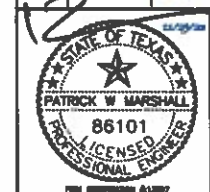
Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



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.

VERIZON
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PROPOSED ANTENNA
SITES

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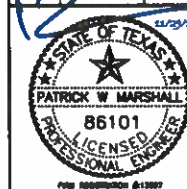
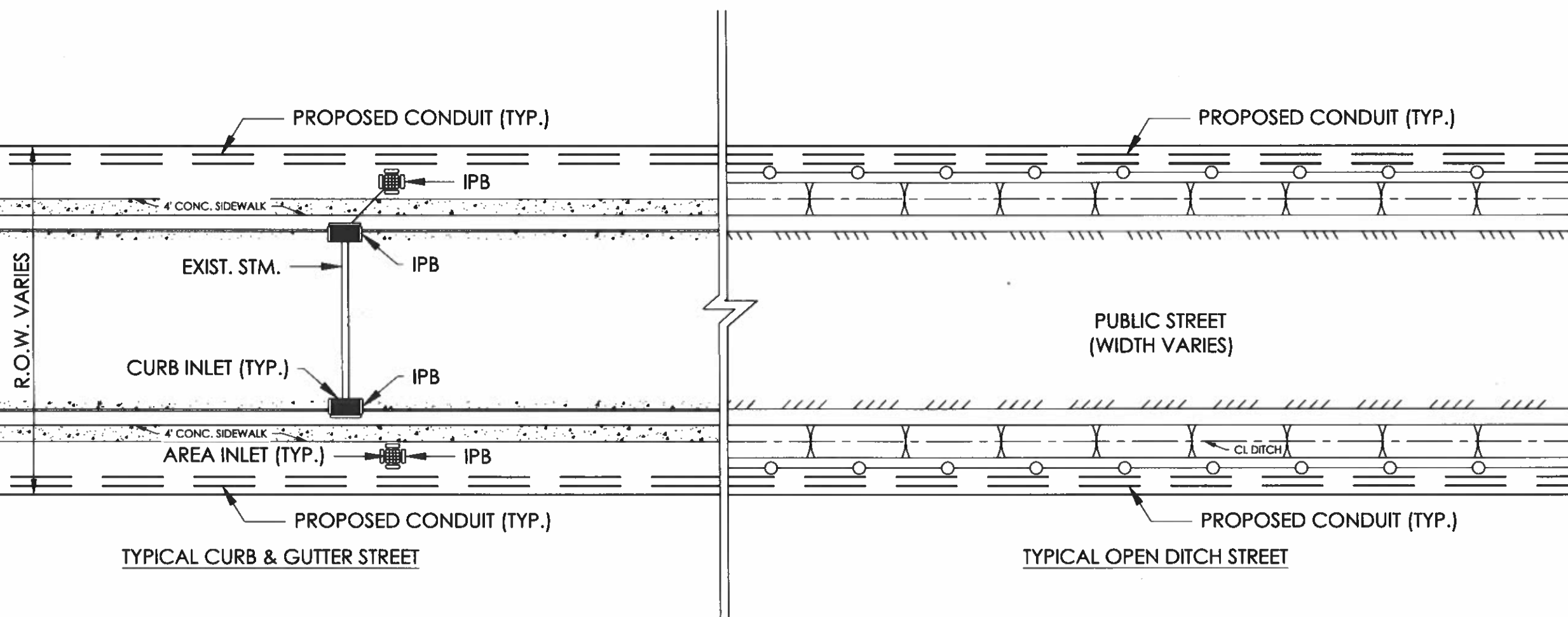
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SWPPP