

**NOTIFICATION OF PROPOSED INSTALLATION AND/OR REPAIRS
OF TELEPHONE FACILITIES AND DESIGNATING
PLACEMENT OF UTILITY IN COUNTY RIGHT OF WAY
TO: THE COUNTY ENGINEER OF BRAZOS COUNTY, TEXAS**

Comes now Comcast of Houston, LLC [company name], hereinafter referred to as "Company" a Texas [state] Corporation, with authority to transact business in Texas, acting by and through its duly authorized representative, and hereby notifies the County Engineer of its intent to lay, construct, maintain, repair and/or operate a telephone facility under, over, across and/or along certain County Roads as shown on drawings and diagrams attached hereto and said location described as follows:

Comcast proposes installing by directional bore a single 2-inch SDR-11 HDPE conduit with associated pedestals within the right-of-way of the following County Roads:

Silver Hill Road – 6,227 feet in ROW and 8 crossings (1,234' in PUE)
Bush Lane – 639 feet in ROW and 1 crossing (701' in PUE)
Leonard Road – 2,041 feet in ROW and 2 crossings (1,621' in PUE)

Project includes the installation of 24/48/96-count fiber optic cable at a minimum depth of 4-feet at all points and a minimum of 5-feet under roadways

The location and description of the proposed installation and appurtenances must be fully shown on detailed drawings attached to this Notification.

The Company shall commence actual construction/work in good faith within 60 days from the date of said permit and shall complete said construction /work within 10 working days. (COMPANY MUST FILL IN). If such construction is not begun by the 60th day, Company will be required to provide a new notice.

Company declares that prior to filing this application, it has ascertained the location of all existing utilities, both aerial and underground, and the filing of this application is prima facie evidence that the proposed installation will not conflict with any existing utility.

A copy of this notice shall be kept at the job site any time work is being performed.

In the event of deviation from this notice, the Brazos County Engineer's Office or its designated representative will be notified as soon as practicable.

Approval of County Engineer's Office may take as long as two weeks after complete application is received.

Failure to notify the County Engineer's Office within 24 hours of beginning construction shall constitute grounds for job shutdown.

By signing below, I certify that I am authorized to represent the Company listed below, and that the Company agrees to the conditions/provisions included in this notification.

Comcast of Houston LLC

Company Name

Justin Valentine

By:

Justin Valentine

Signature

Planning & Design Manager

Title

8590 West Tidwell Rd, Houston, Tx, 77040

Address

Phone Number 281-889-5413

Email:

dwenta@quasar.us
Justin_Valentine@comcast.com
shaneitra_jones@comcast.com
Ryan_Hawkins@comcast.com
kpiszczek@quasar.us

ACCEPTANCE OF NOTIFICATION

Brazos County offers no objection to the proposed location of the utility in the County right of way as shown by accompanying drawings and notice dated June 3, 2026 except as noted below:

EXCEPTIONS: Brazos County considers Marcia Lane as PRIVATE, therefore NO permit will be issued for this roadway. Conduits MUST be placed within the platted Public Utility Easements (PUE), where applicable.

For  _____
Brazos County Engineer



4551
SILVER HILL RD

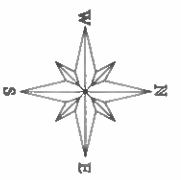
WORK AREA
 START: 30.627790, -96.441721
 END: 30.608726, -96.435267

PREPARED BY:



COMCAST IS BORING AND INSTALLING NEW CONDUIT WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENT OWNED BY THE BRAZOS COUNTY
 TOTAL: ~~14464ft~~

ENGINEERED FOR:



NO SCALE



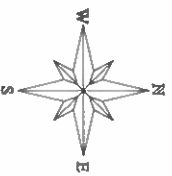


QUASAR, INC.

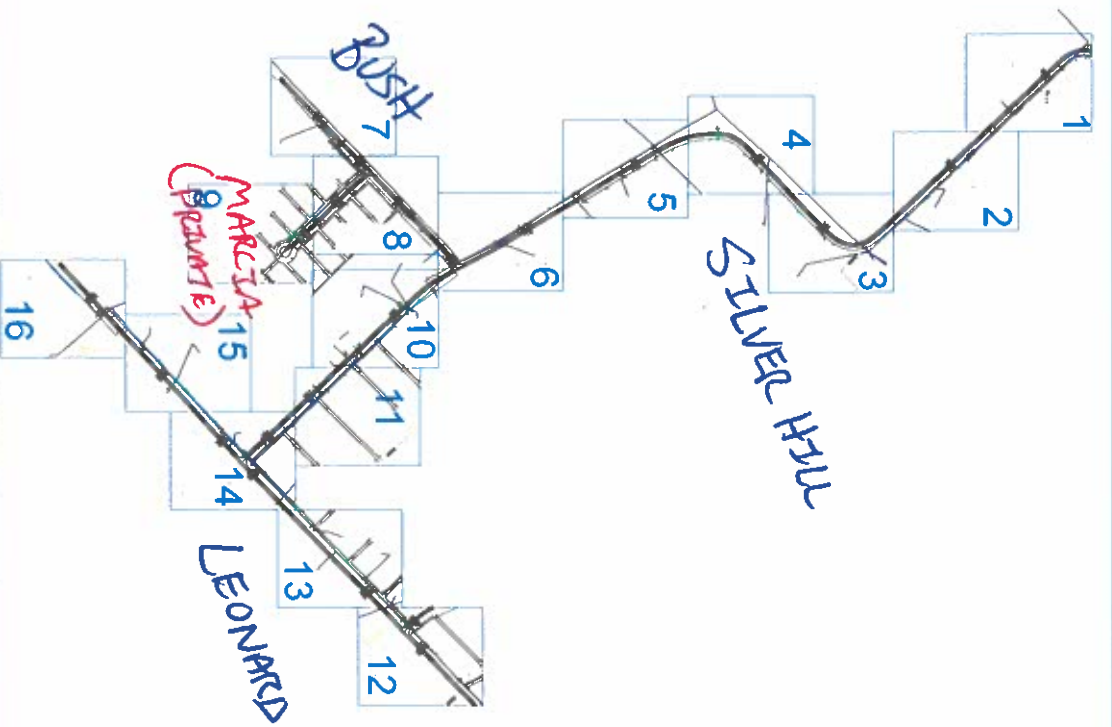
PREPARED BY:

COMCAST IS BORING AND INSTALLING NEW CONDUIT WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENT OWNED BY THE BRAZOS COUNTY TOTAL: ~~14464ft~~

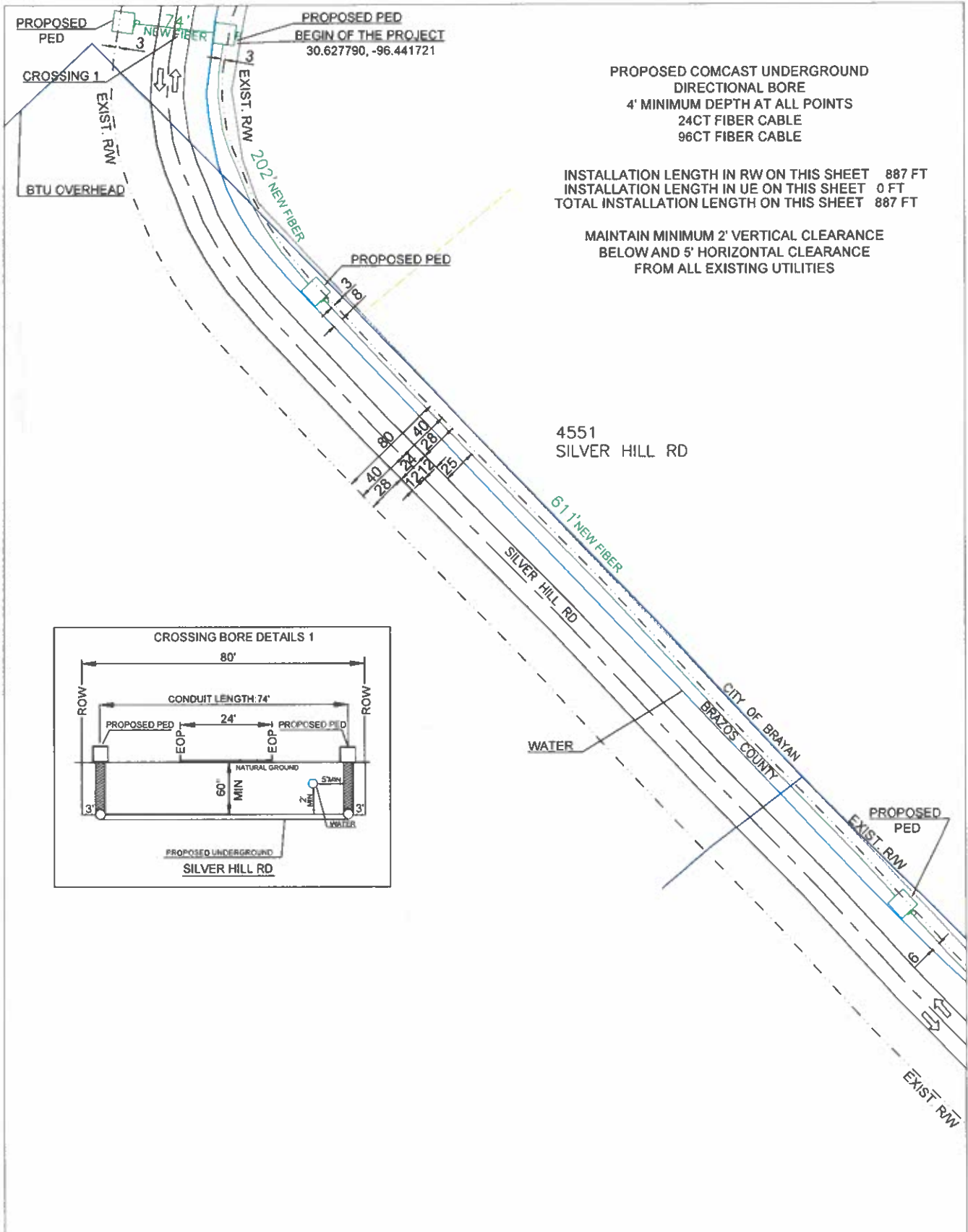
NO SCALE



ENGINEERED FOR:



NO MATCH SHEET



NO MATCH SHEET

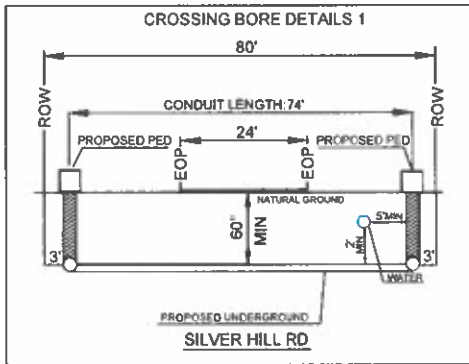
MATCH SHEET 2

PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE
96CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 887 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 887 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

CROSSING BORE DETAILS 1



NO MATCH SHEET

<p>PREPARED BY</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR:</p> <p>BRAZOS COUNTY</p> <p>SILVER HILL RD</p> <p>TRANSPORT FIBER</p>	<p>COMCAST</p>	<p>NO SCALE</p>	<p>SHEET 1 OF 16</p>
	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p>	<p>NOTES:</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPED AND SODDED</p>	<p>NO SCALE</p>		<p>SHEET 1 OF 16</p>			

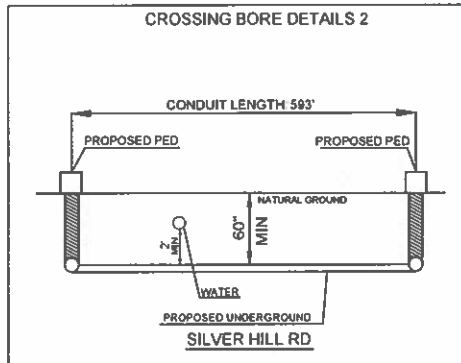
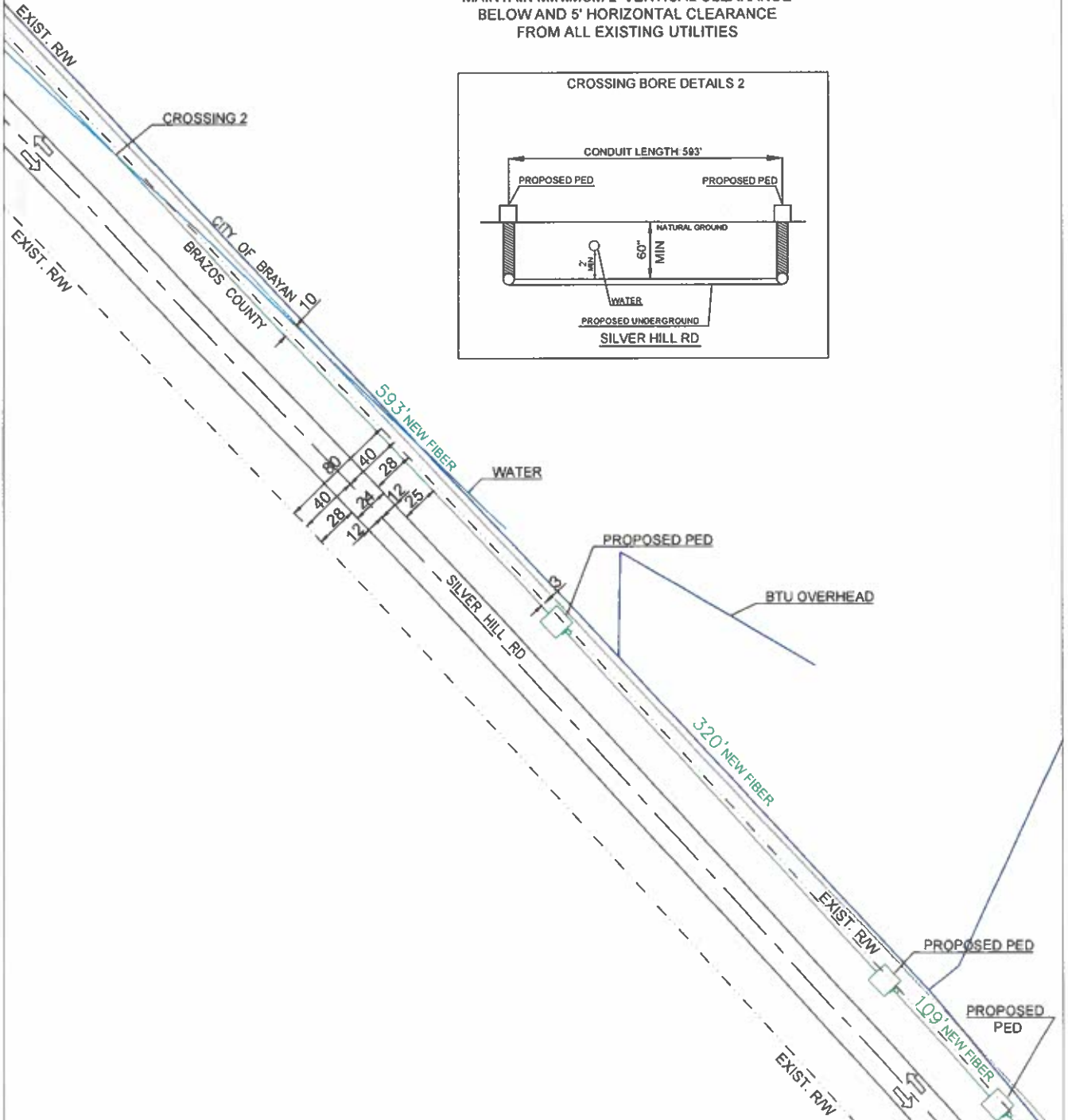
NO MATCH SHEET

**PROPOSED COMCAST UNDERGROUND
 DIRECTIONAL BORE
 4' MINIMUM DEPTH AT ALL POINTS
 24CT FIBER CABLE
 96CT FIBER CABLE**

**INSTALLATION LENGTH IN RW ON THIS SHEET 1022 FT
 INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
 TOTAL INSTALLATION LENGTH ON THIS SHEET 1022 FT**

**MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
 BELOW AND 5' HORIZONTAL CLEARANCE
 FROM ALL EXISTING UTILITIES**

MATCH SHEET 1

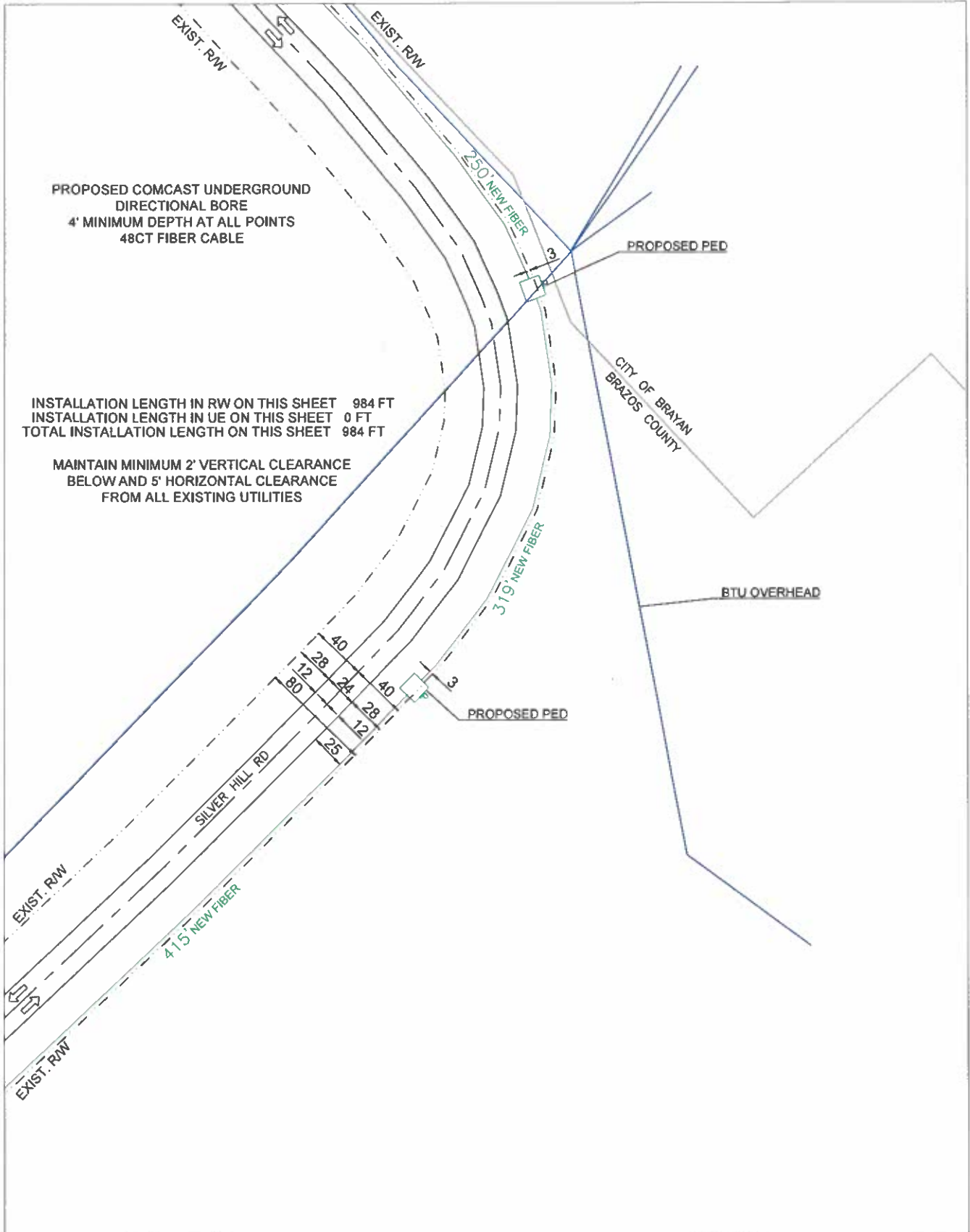


NO MATCH SHEET

MATCH SHEET 3

PREPARED BY 	<table border="0"> <tr> <td></td> <td>EXISTING POLE</td> <td></td> <td>RIGHT OF WAY LINE</td> <td></td> <td>PROPOSED COAXIAL CABLE</td> </tr> <tr> <td></td> <td>PROPOSED PEDESTAL</td> <td></td> <td>TELCO LANE</td> <td></td> <td>PROPOSED FIBER CABLE</td> </tr> <tr> <td></td> <td>WATER VALVE</td> <td></td> <td>WATER LANE</td> <td></td> <td>PROPOSED DIRECTIONAL BORE</td> </tr> <tr> <td></td> <td>FIRE HYDRANT</td> <td></td> <td>GAS LANE</td> <td></td> <td>EXISTING CABLE</td> </tr> <tr> <td></td> <td>MANHOLE</td> <td></td> <td>EXISTING ANCHOR</td> <td></td> <td>UTILITY EASEMENT</td> </tr> <tr> <td></td> <td>STORM DRAIN</td> <td></td> <td>PROPOSED RISER</td> <td></td> <td>BTU UNDERGROUND</td> </tr> <tr> <td></td> <td></td> <td></td> <td>BTU OVERHEAD</td> <td></td> <td></td> </tr> </table>		EXISTING POLE		RIGHT OF WAY LINE		PROPOSED COAXIAL CABLE		PROPOSED PEDESTAL		TELCO LANE		PROPOSED FIBER CABLE		WATER VALVE		WATER LANE		PROPOSED DIRECTIONAL BORE		FIRE HYDRANT		GAS LANE		EXISTING CABLE		MANHOLE		EXISTING ANCHOR		UTILITY EASEMENT		STORM DRAIN		PROPOSED RISER		BTU UNDERGROUND				BTU OVERHEAD				ENGINEERED FOR: 	BRAZOS COUNTY SILVER HILL RD TRANSPORT FIBER
	EXISTING POLE		RIGHT OF WAY LINE		PROPOSED COAXIAL CABLE																																									
	PROPOSED PEDESTAL		TELCO LANE		PROPOSED FIBER CABLE																																									
	WATER VALVE		WATER LANE		PROPOSED DIRECTIONAL BORE																																									
	FIRE HYDRANT		GAS LANE		EXISTING CABLE																																									
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	STORM DRAIN		PROPOSED RISER		BTU UNDERGROUND																																									
			BTU OVERHEAD																																											
LEGEND: RW - RIGHT OF WAY EOP - EDGE OF PAVEMENT DW - DRIVEWAY PDW - PAVED DRIVEWAY		NOTES: BORE HOLE TO BE FILLED SAME DAY VAULT HOLE TO BE FILLED SAME DAY ALL HOLE TO BE TAMPEO AND SODDED		NO SCALE SHEET 2 OF 16																																										

MATCH SHEET 2



PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
48CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 984 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 984 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

MATCH SHEET 4

NO MATCH SHEET

NO MATCH SHEET

<p>PREPARED BY</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>COMCAST</p>	<p>BRAZOS COUNTY</p> <p>SILVER HILL RD</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p>	<p>NOTES</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPEO AND SODDED</p>	<p>NO SCALE</p> <p>SHEET 3 OF 16</p>			

MATCH SHEET 4

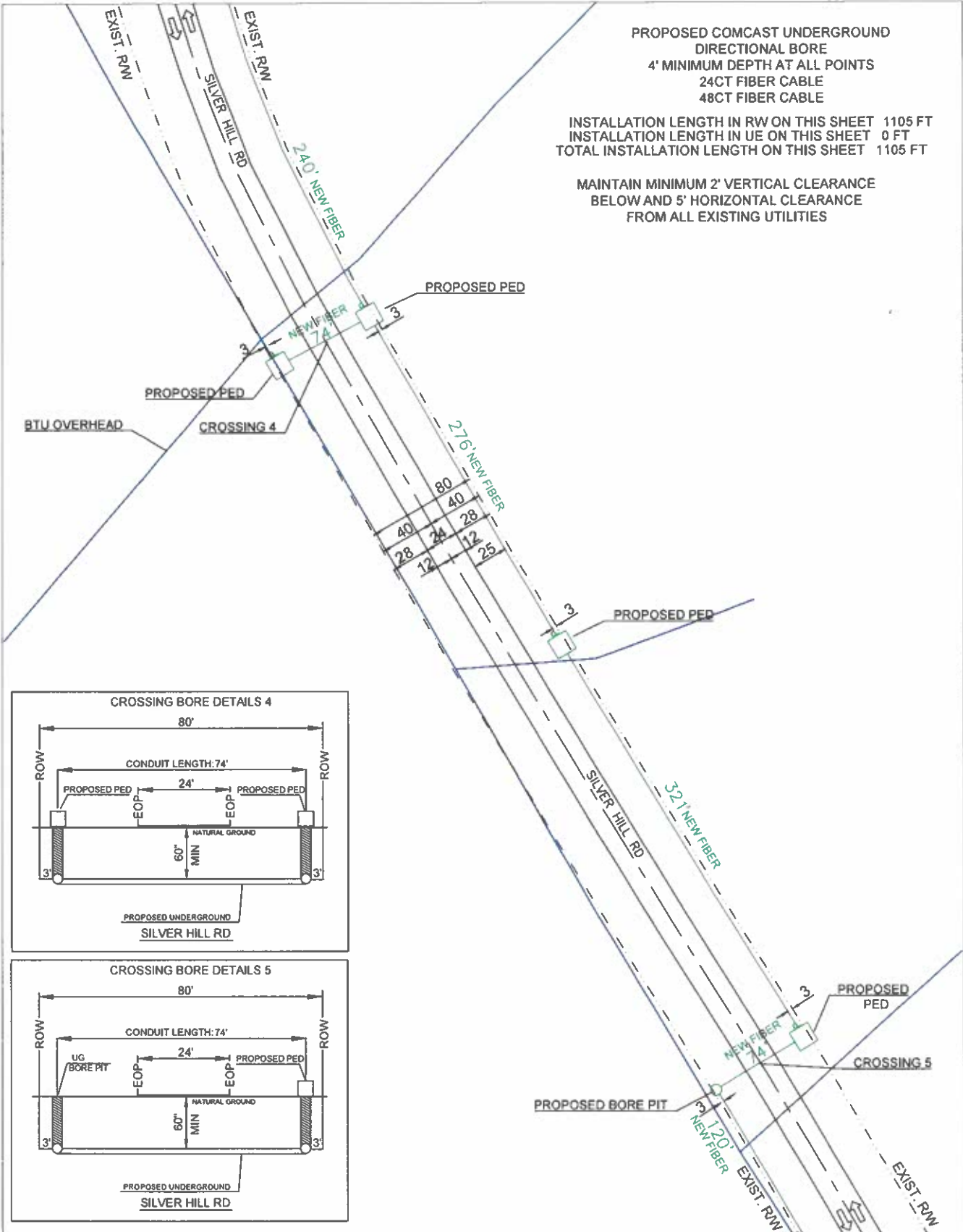
PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE
48CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 1105 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 1105 FT

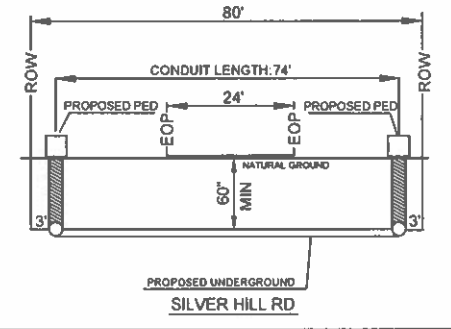
MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

NO MATCH SHEET

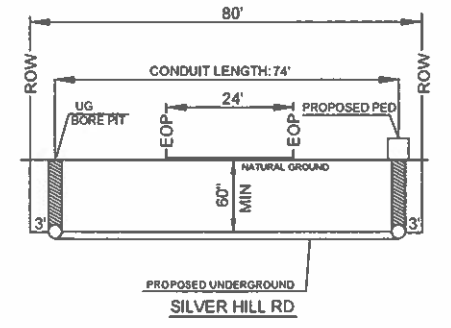
NO MATCH SHEET



CROSSING BORE DETAILS 4



CROSSING BORE DETAILS 5



MATCH SHEET 6

<p>PREPARED BY:</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>COMCAST</p>	<p>BRAZOS COUNTY</p> <p>SILVER HILL RD</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p> <p>NOTES</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLES TO BE TAMPED AND SODDED</p>	<p>NO SCALE</p> <p>SHEET 5 OF 16</p>				

NO MATCH SHEET

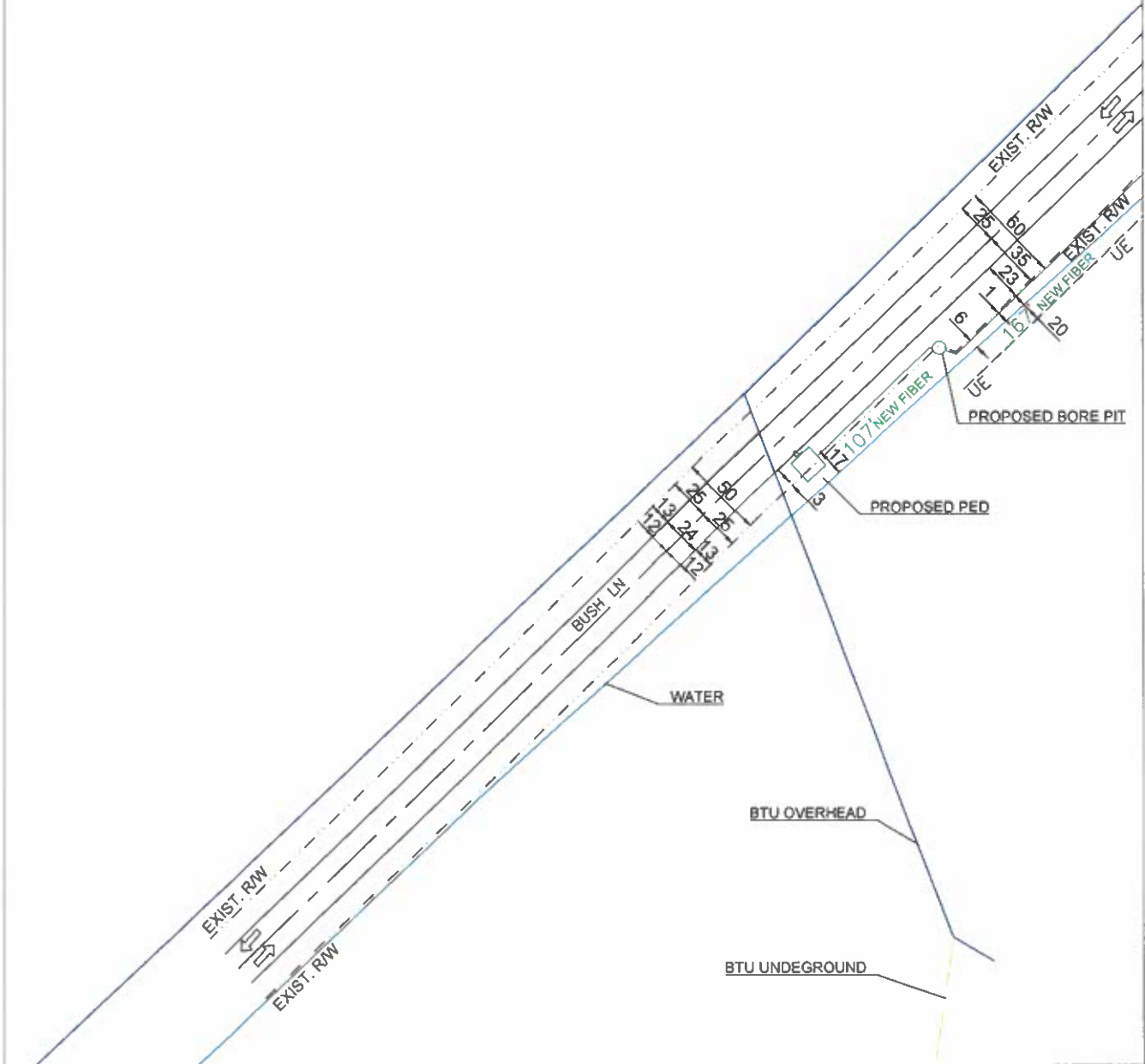
PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 110 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 164 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 274 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

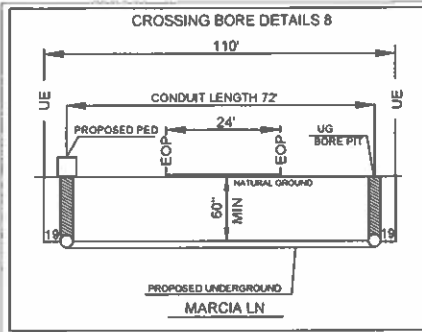
NO MATCH SHEET

MATCH SHEET 8



NO MATCH SHEET

<p>PREPARED BY</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>COMCAST</p>	<p>BRAZOS COUNTY</p> <p>BUSH LN</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p>	<p>NOTES</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPER AND SODDED</p>	<p>NO SCALE</p> <p>SHEET 7 OF 18</p>			

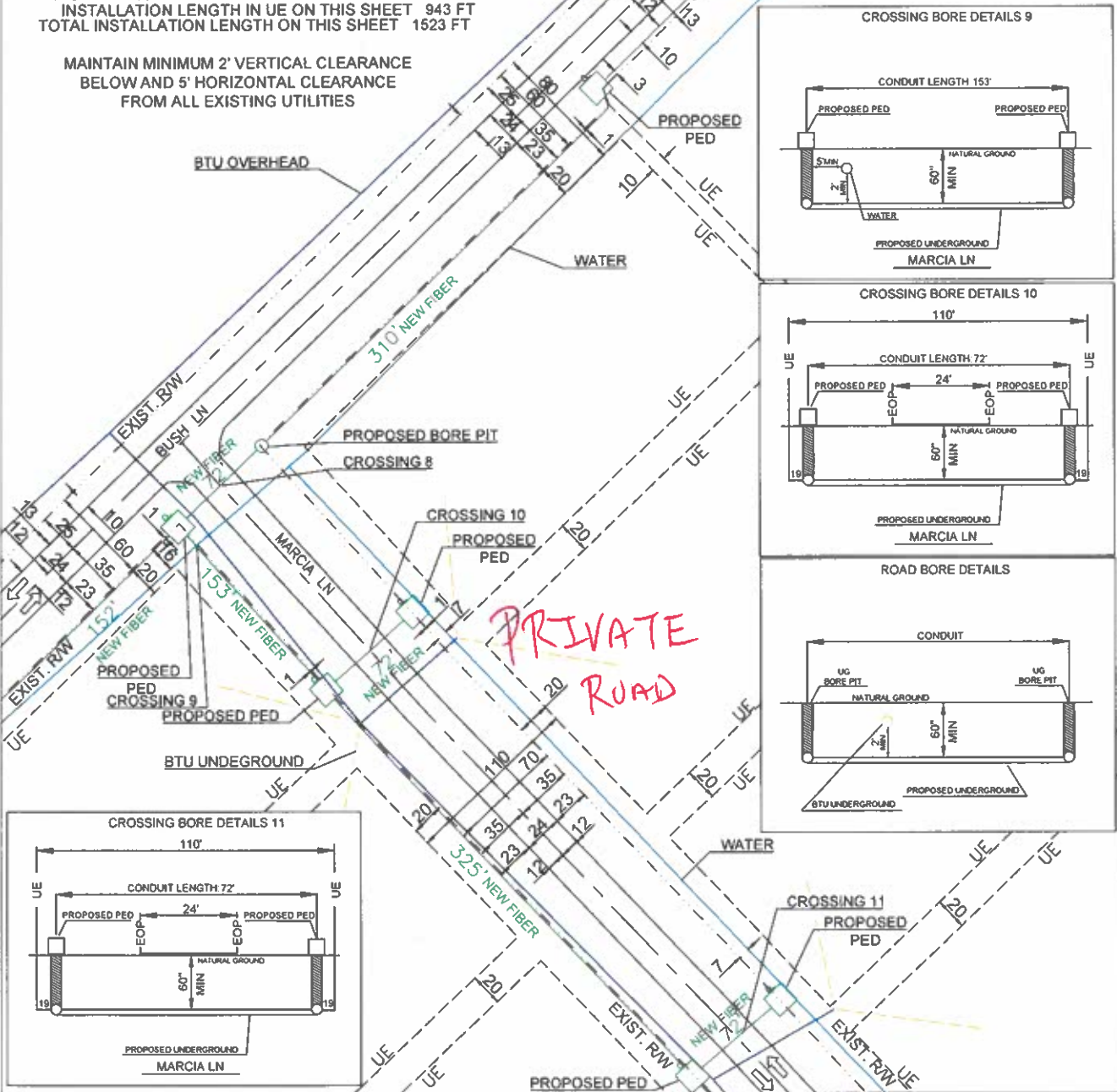


PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE
48CT FIBER CABLE

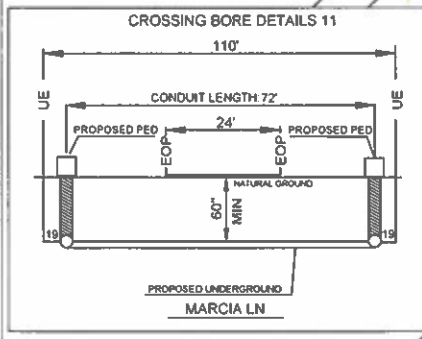
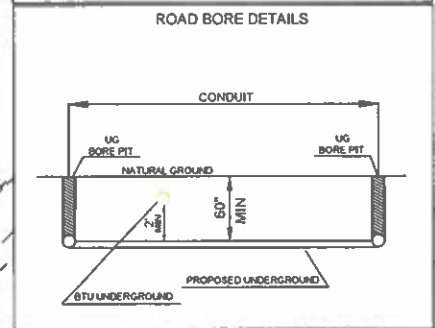
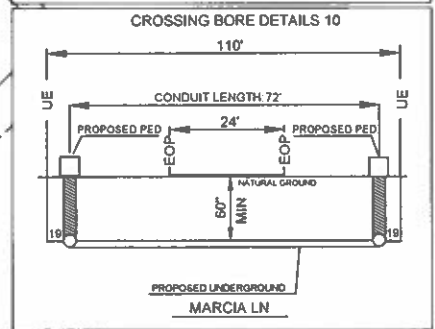
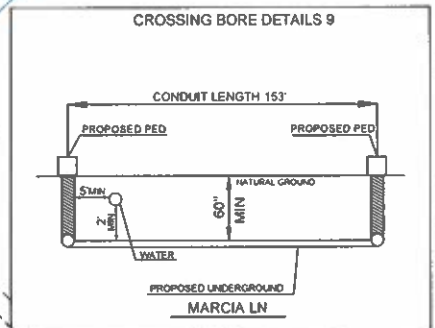
INSTALLATION LENGTH IN RW ON THIS SHEET 580 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 943 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 1523 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

MATCH SHEET 7



NO MATCH SHEET

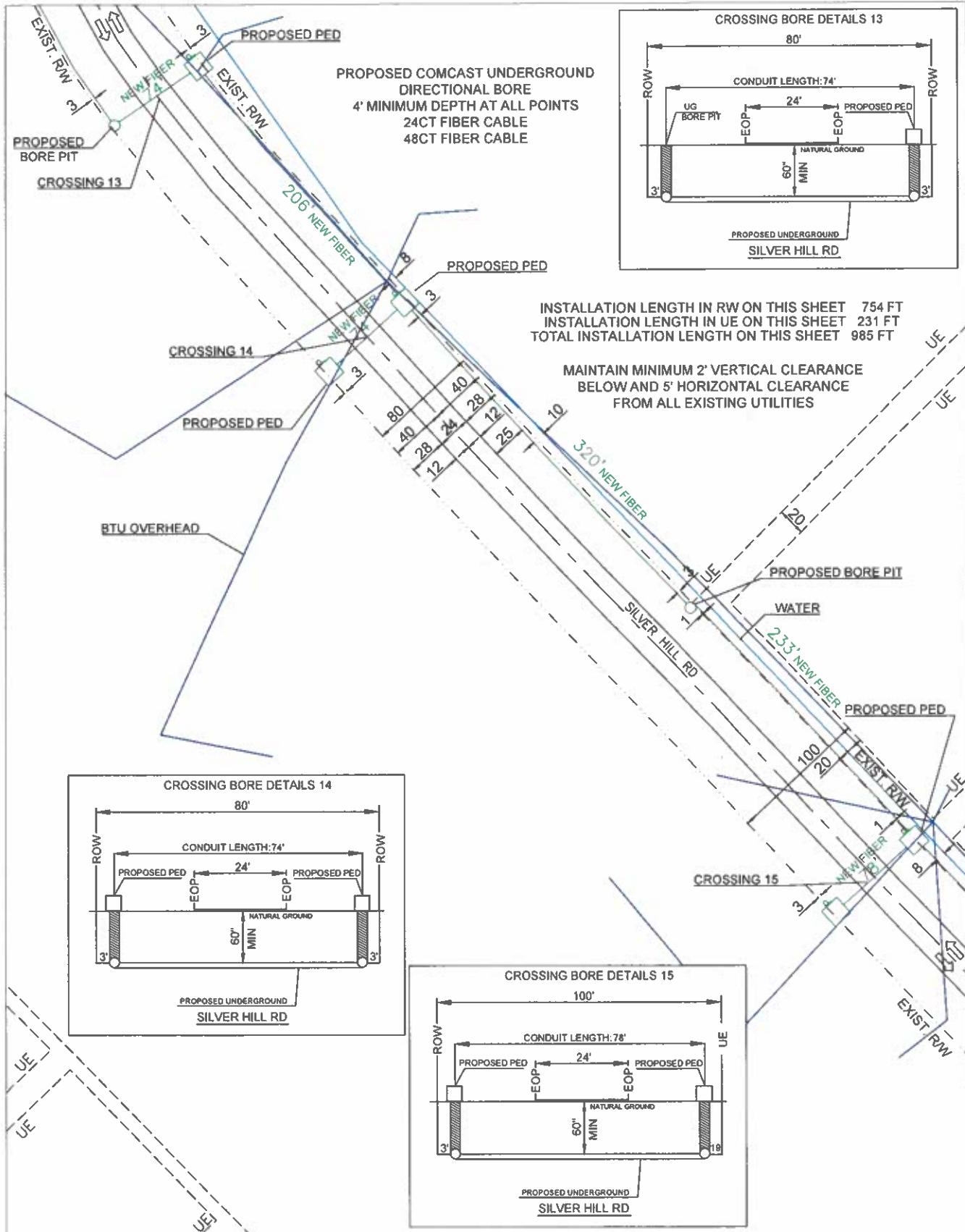


MATCH SHEET 9

<p>PREPARED BY</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>COMCAST</p>	<p>BRAZOS COUNTY</p> <p>MARCIA LN</p> <p>BUSH LN</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND:</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p>	<p>NOTES:</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPED AND SQUARED.</p>	<p>NO SCALE</p> <p>SHEET 6 OF 16</p>			

MATCH SHEET 6

NO MATCH SHEET



MATCH SHEET 11

NO MATCH SHEET

<p>PREPARED BY</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>BRAZOS COUNTY</p> <p>SILVER HILL RD</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND:</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>POW - PAVED DRIVEWAY</p> <p>NOTES:</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLES TO BE TAMPED AND SOFTED</p>		<p>NO SCALE</p> <p>SHEET 10 OF 16</p>		

NO MATCH SHEET

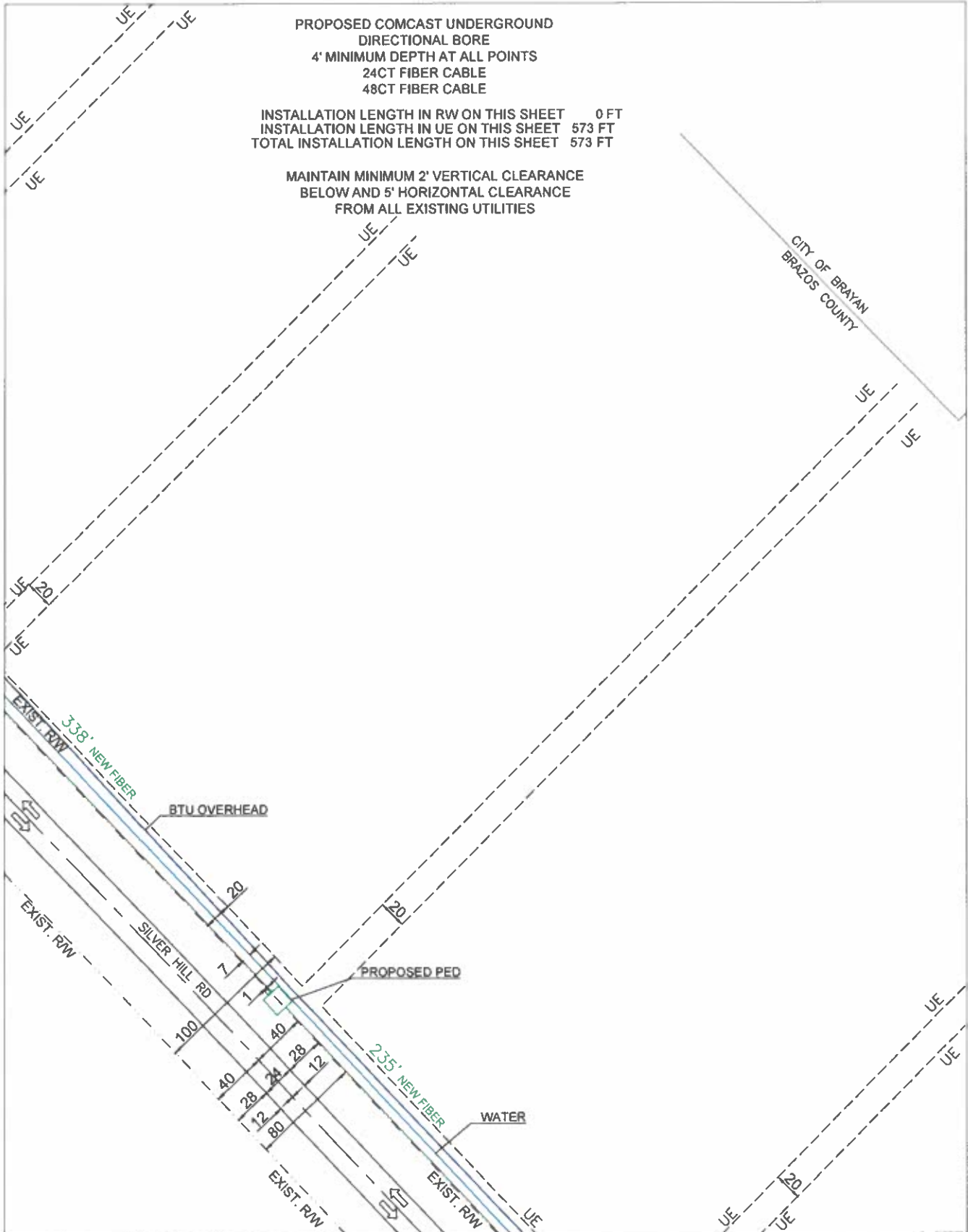
**PROPOSED COMCAST UNDERGROUND
 DIRECTIONAL BORE**
 4' MINIMUM DEPTH AT ALL POINTS
 24CT FIBER CABLE
 48CT FIBER CABLE

 INSTALLATION LENGTH IN RW ON THIS SHEET 0 FT
 INSTALLATION LENGTH IN UE ON THIS SHEET 573 FT
 TOTAL INSTALLATION LENGTH ON THIS SHEET 573 FT

 MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
 BELOW AND 5' HORIZONTAL CLEARANCE
 FROM ALL EXISTING UTILITIES

MATCH SHEET 10

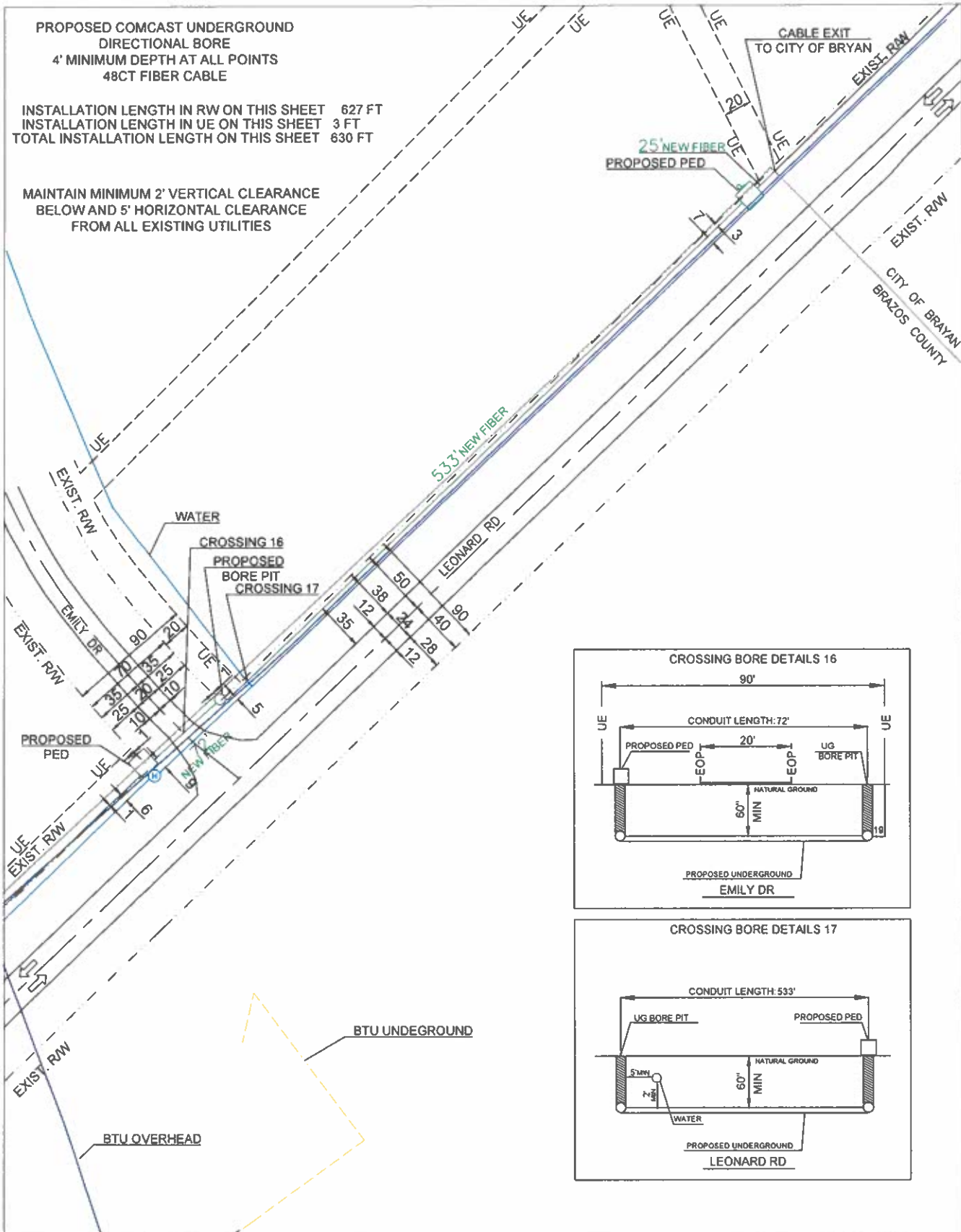
NO MATCH SHEET



MATCH SHEET 14

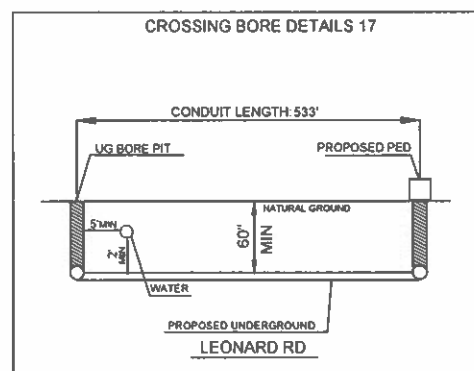
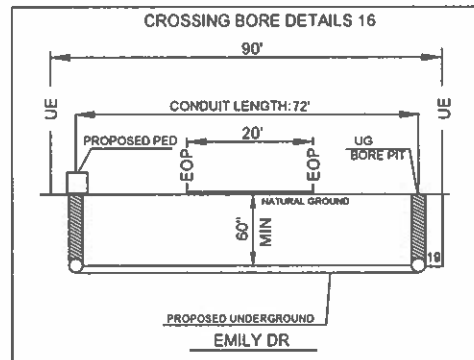
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	EXISTING POLE		RIGHT OF WAY LINE		PROPOSED COAXIAL CABLE																																									
	PROPOSED PEDESTAL		TELCO LANE		PROPOSED FIBER CABLE																																									
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LEGEND RW - RIGHT OF WAY EOP - EDGE OF PAVEMENT DW - DRIVEWAY PDW - PAVED DRIVEWAY		NOTES: BORE HOLE TO BE FILLED SAME DAY VAULT HOLE TO BE FILLED SAME DAY ALL HOLE TO BE TAMPED AND SODDED		NO SCALE SHEET 11 OF 18																																										

NO MATCH SHEET



NO MATCH SHEET

MATCH SHEET 13



NO MATCH SHEET

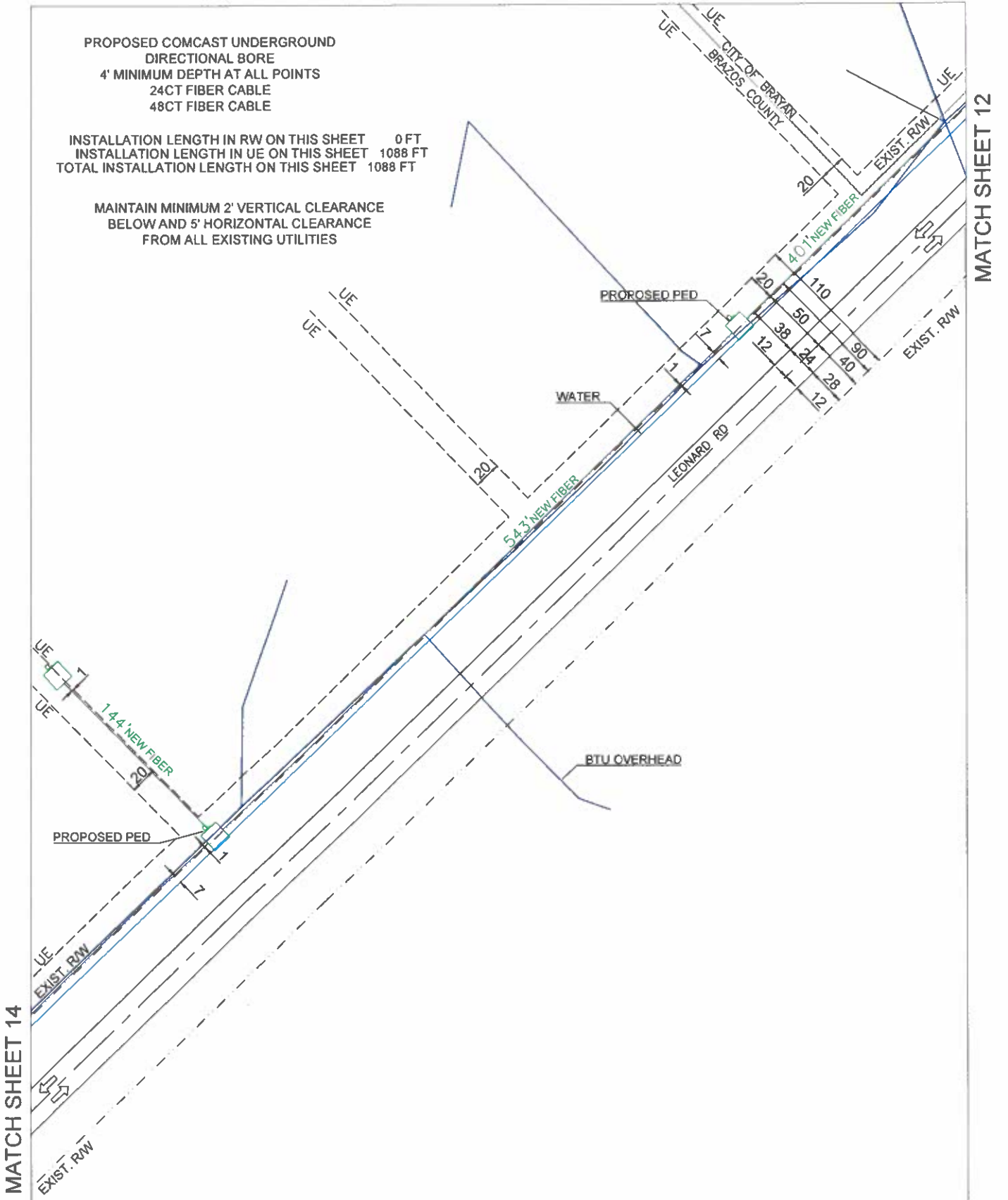
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	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>POW - PAVED DRIVEWAY</p>	<p>NOTES</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPED AND SOODED</p>	<p>NO SCALE</p> <p>SHEET 12 OF 14</p>			

NO MATCH SHEET

PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE
48CT FIBER CABLE

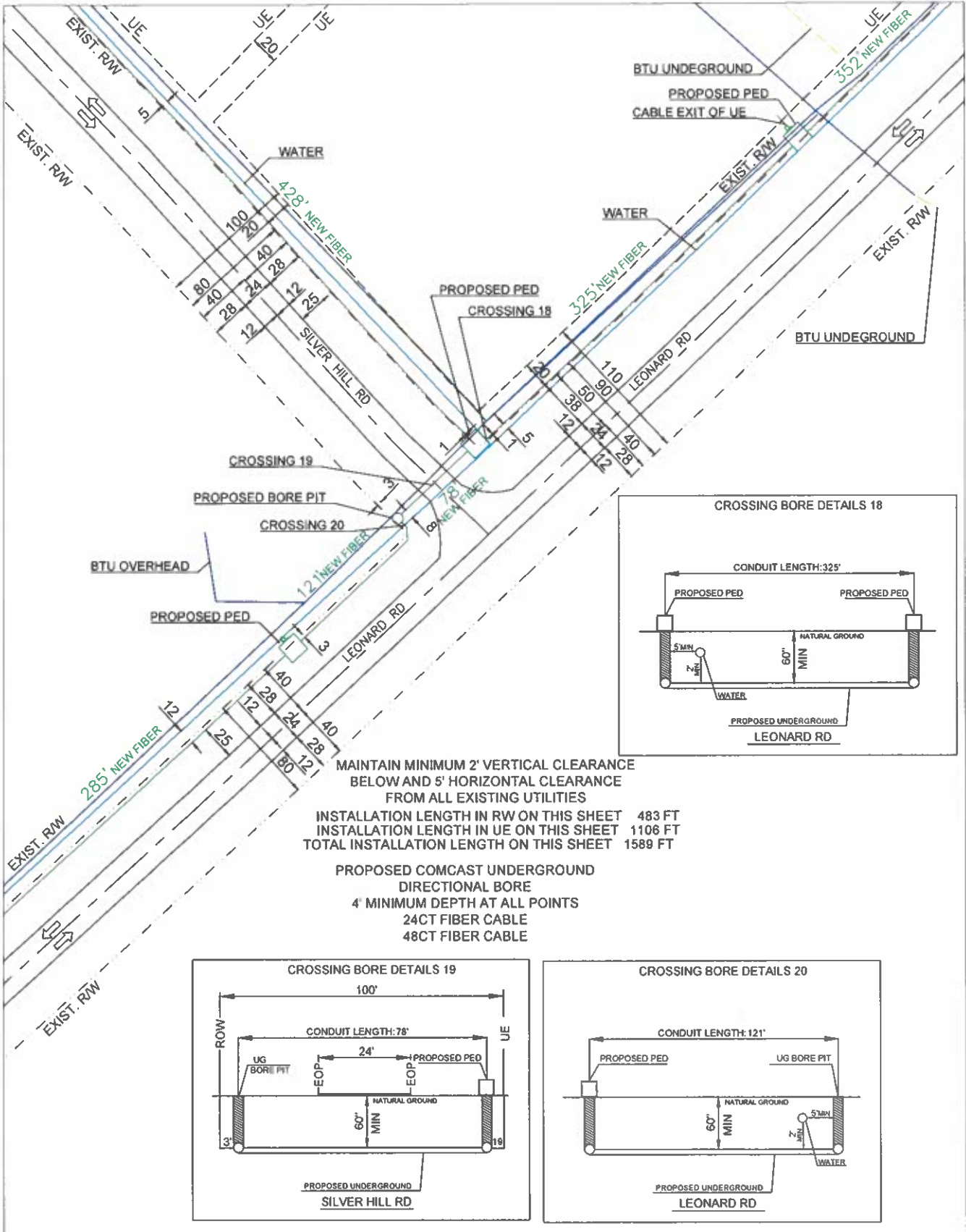
INSTALLATION LENGTH IN RW ON THIS SHEET 0 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 1088 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 1088 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES



NO MATCH SHEET

PREPARED BY 				ENGINEERED FOR 	BRAZOS COUNTY LEONARD RD TRANSPORT FIBER
	LEGEND RW - RIGHT OF WAY EOP - EDGE OF PAVEMENT DW - DRIVEWAY PDW - PAVED DRIVEWAY	NOTES: BORE HOLE TO BE FILLED SAME DAY VAULT HOLE TO BE FILLED SAME DAY ALL HOLE TO BE TAMPED AND SODDED		NO SCALE	SHEET 13 OF 14



NO MATCH SHEET

PREPARED BY 	EXISTING POLE PROPOSED PEDESTAL WATER VALVE FIRE HYDRANT MANHOLE STORM DRAIN	RIGHT OF WAY LINE TELCO LANE WATER LANE GAS LANE EXISTING ANCHOR PROPOSED RISER	PROPOSED COAXIAL CABLE PROPOSED FIBER CABLE PROPOSED DIRECTIONAL BORE EXISTING CABLE UTILITY EASEMENT BTU UNDERGROUND BTU OVERHEAD		ENGINEERED FOR 	BRAZOS COUNTY SILVER HILL RD LEONARD RD TRANSPORT FIBER
	LEGEND: RW - RIGHT OF WAY EOP - EDGE OF PAVEMENT DW - DRIVEWAY PDW - PAVED DRIVEWAY	NOTES: BORE HOLE TO BE FILLED SAME DAY VAULT HOLE TO BE FILLED SAME DAY ALL HOLE TO BE TAMPED AND SOODED	COMCAST		NO SCALE SHEET 14 OF 16	

NO MATCH SHEET

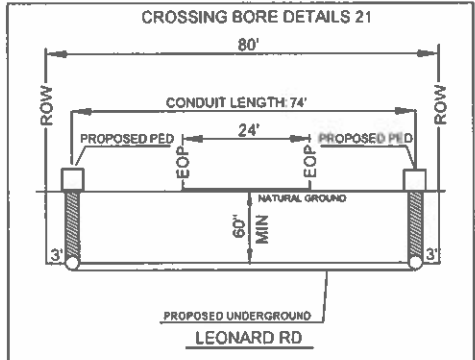
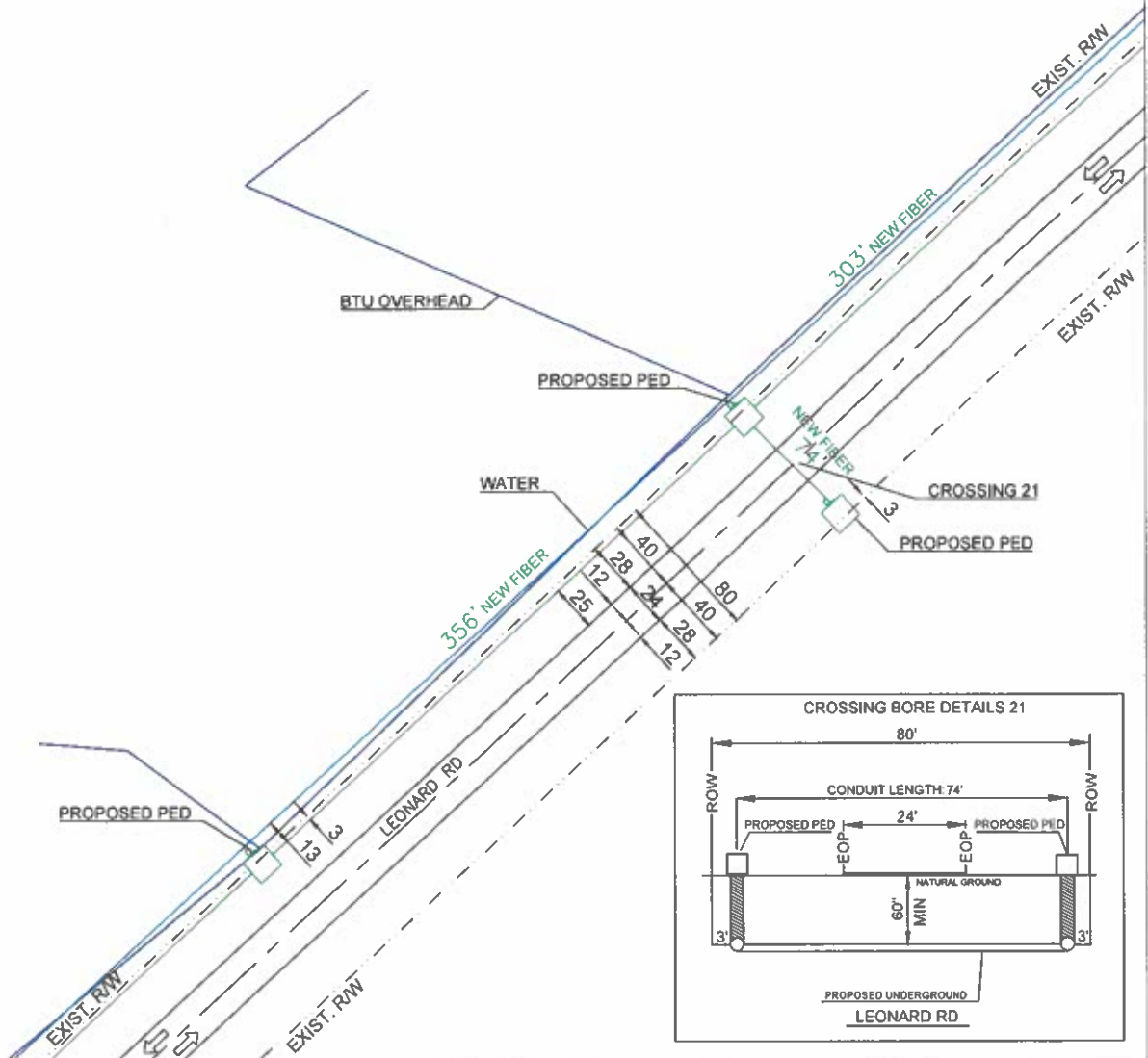
PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE
48CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 733 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 733 FT

MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

NO MATCH SHEET

MATCH SHEET 14



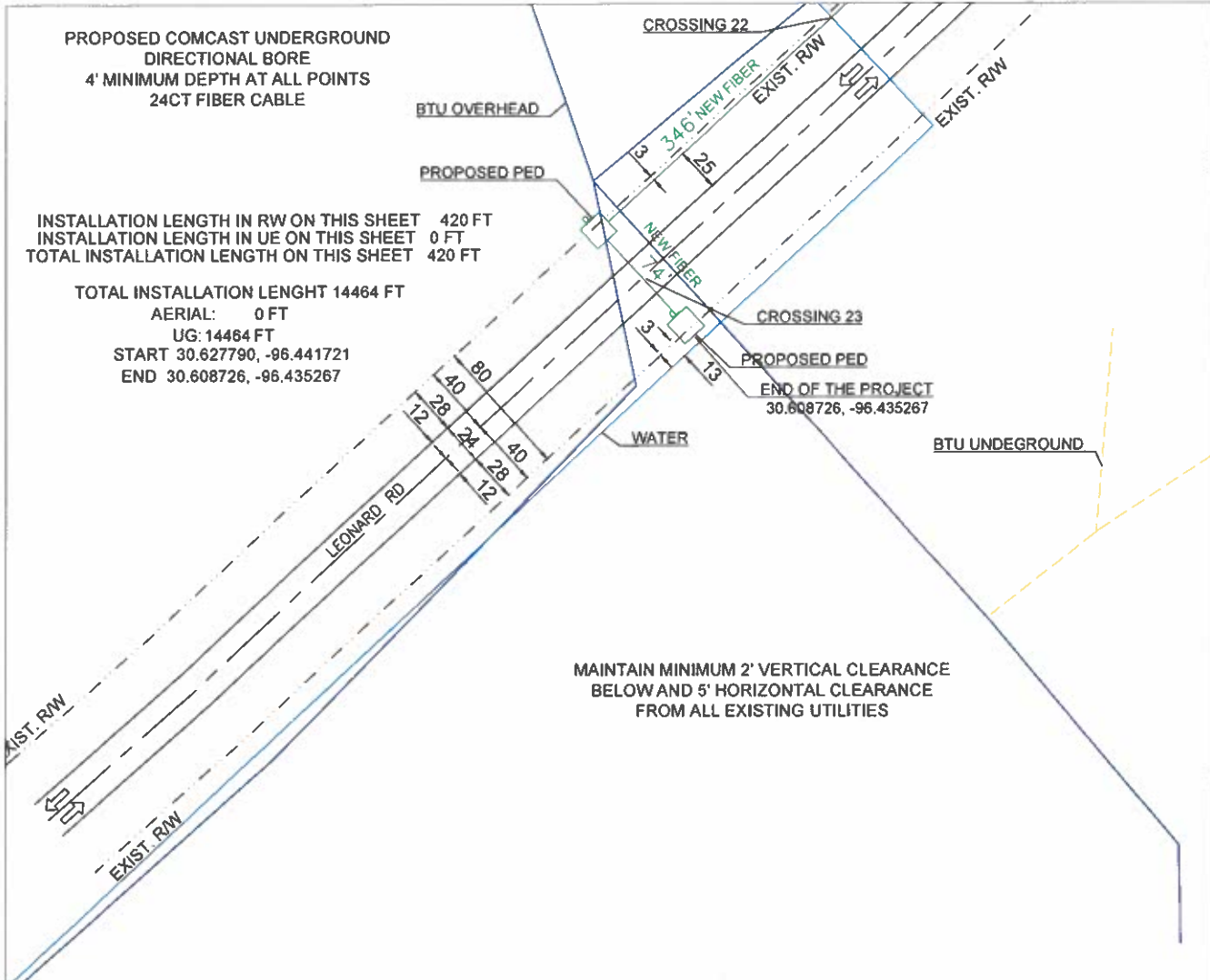
MATCH SHEET 16

PREPARED BY: 			ENGINEERED FOR 	BRAZOS COUNTY LEONARD RD TRANSPORT FIBER
	LEGEND: RW - RIGHT OF WAY EOP - EDGE OF PAVEMENT DW - DRIVEWAY PDW - PAVED DRIVEWAY NOTES: BORE HOLE TO BE FILLED SAME DAY VAULT HOLE TO BE FILLED SAME DAY ALL HOLE TO BE TAMPED AND SOODED	NO SCALE SHEET 15 OF 18		

PROPOSED COMCAST UNDERGROUND
DIRECTIONAL BORE
4' MINIMUM DEPTH AT ALL POINTS
24CT FIBER CABLE

INSTALLATION LENGTH IN RW ON THIS SHEET 420 FT
INSTALLATION LENGTH IN UE ON THIS SHEET 0 FT
TOTAL INSTALLATION LENGTH ON THIS SHEET 420 FT

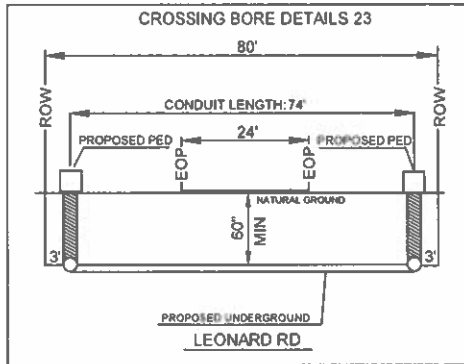
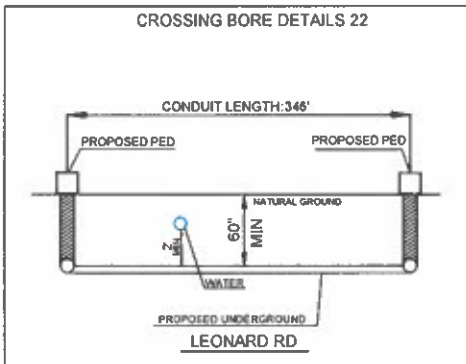
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UG: 14464 FT
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END 30.608726, -96.435267



MAINTAIN MINIMUM 2' VERTICAL CLEARANCE
BELOW AND 5' HORIZONTAL CLEARANCE
FROM ALL EXISTING UTILITIES

NO MATCH SHEET

NO MATCH SHEET



NO MATCH SHEET

<p>PREPARED BY:</p> <p>QUASAR, INC.</p>	<p>EXISTING POLE</p> <p>PROPOSED PEDESTAL</p> <p>WATER VALVE</p> <p>FIRE HYDRANT</p> <p>MANHOLE</p> <p>STORM DRAIN</p>	<p>RIGHT OF WAY LINE</p> <p>TELCO LANE</p> <p>WATER LANE</p> <p>GAS LANE</p> <p>EXISTING ANCHOR</p> <p>PROPOSED RISER</p>	<p>PROPOSED COAXIAL CABLE</p> <p>PROPOSED FIBER CABLE</p> <p>PROPOSED DIRECTIONAL BORE</p> <p>EXISTING CABLE</p> <p>UTILITY EASEMENT</p> <p>BTU UNDERGROUND</p> <p>BTU OVERHEAD</p>		<p>ENGINEERED FOR</p> <p>BRAZOS COUNTY</p> <p>LEONARD RD</p> <p>TRANSPORT FIBER</p>
	<p>LEGEND</p> <p>RW - RIGHT OF WAY</p> <p>EOP - EDGE OF PAVEMENT</p> <p>DW - DRIVEWAY</p> <p>PDW - PAVED DRIVEWAY</p>	<p>NOTES</p> <p>BORE HOLE TO BE FILLED SAME DAY</p> <p>VAULT HOLE TO BE FILLED SAME DAY</p> <p>ALL HOLE TO BE TAMPED AND SOODED</p>			<p>NO SCALE</p> <p>SHEET 18 OF 18</p>

**BRAZOS COUNTY ROADWAY SAFETY AND ROAD
PRESERVATION STANDARDS FOR WORK CONDUCTED IN
BRAZOS COUNTY RIGHTS OF WAY**

A. General Requirements

1. Adequate drainage shall be maintained in ditches at all times.
2. Permittee will use best management practices ("BMP") (EPA and TCEQ both provide lists of examples of BMPs) to minimize erosion and sedimentation resulting from the proposed installation.
3. The permittee shall take precautions to avoid damage to property. All County Right of Way and property shall be restored to its original condition, as far as practical, in the opinion of the County Engineer or appointed representative.
4. The construction and maintenance of such utility shall not interfere with the property or rights of a prior occupant.
5. Permittee shall not interfere with other utilities located in the right of way. In the event damages occur, permittee will be liable to the County or other utilities running through the right of way.
6. County Engineer shall determine whether or not permittee's plans shall inconvenience the public. If it is determined that inconvenience to the public exists, then the County Engineer will decide whether such project will be allowed or if an alternative exists so as not to inconvenience the public.

B. Safety Requirements

1. Proper traffic control measures must be put in place prior to beginning work and remain in place during the duration of the job. All traffic control measures must follow the Texas Manual of Uniform Traffic Control Devices (TMUTCD). See Traffic Control Requirements below.
2. During construction, all safety regulations of the Texas Department of Transportation shall be observed.
3. Permittee must take such precautions and measures, including placing and displaying safety devices, as may be necessary, in order to safely conduct the public through the project area. Company shall provide flagmen, signs, signals or devices necessary to provide complete safety to the public.
4. Adequate provisions must be made to cause minimum inconveniences to traffic and adjacent property owners.
5. No cable, conduit and/or pole line shall be laid, constructed, maintained and/or repaired so as to constitute a danger or hazard of any kind to persons or vehicles using such road. Any poles placed in the Right of Way for future installation shall be placed at the back of the Right of Way. Exceptions may be approved by the County Engineer.

C. Traffic Control Plan

1. A traffic control plan, pursuant to the TMUTCD or Engineered Traffic Control Plan must be provided for the following:
 - a. Any construction (i.e. pit, excavation, hole) left open over night, requires specific nighttime traffic control measures pursuant to the TMUTCD;
 - b. If construction is within ten (10) feet of the roadway; or
 - c. Any work performed in the road right-of-way;

2. Plan must be attached to the permit and kept at the job site any time work is being performed.
3. Plan must set forth the time of completion for the job.

D. Design Standards

1. All overhead installations shall conform to clearance standards of the Texas Department of Transportation and the pole be placed in the designated area for power specified as set forth in the *Texas Utilities Code, Section 181.045*.
2. All pole installation (including lighting) shall be placed at the backside of the Right of Way to ensure safety to the public. Any pole placed in violation of this requirement will be required to be moved to the appropriate location at the company's expense. Exceptions may be approved by the County Engineer.
3. All underground installations shall (these are minimum depths – utility may place deeper):
 - a. be placed at a minimum depth of forty-eight (48) inches below the top of the pavement;
 - b. be at least thirty-six (36) inches below ditch flow line when installation is within the area measured from top of bank to top of bank;
 - c. be at least forty-eight (48) inches below ditch flow line if low pressure gas or petroleum lines. For high pressure gas and petroleum lines, see High Pressure Pipelines requirements listed below;
 - d. not be closer than ten (10) feet from the edge of pavement. Exceptions may apply in rights of way of less than 60'.
4. Water Lines: All water lines must be a minimum 36-inches below the ditch flow line and cased. Waterlines shall be cased if crossing under the roadway.
5. Utilities in all new developments that have 60 feet or greater of right of way shall be installed within designated locations based upon the type of utility. The locations shall be as follows: (measured from back of right-of-way).
 - Power – 0-2 feet, nominally 1'
 - Phone – 2-4 feet, nominally 3'
 - Gas – 4-6 feet, nominally 5'
 - Cable – 6-8 feet, nominally 7'
6. Utilities with less than 60 feet right-of-way in all new developments shall install the utility in a similar manner as referenced in No. 3 above, however, the County Engineer or its designated representative will provide final approval of each utility location.
7. The length of any trench to be opened in advance of the pipe, conduit or ducts may not be longer than 400' if left open over night or unattended.
8. Crossings under a county road shall:
 - a. be bored or jacked. **ABSOLUTELY NO OPEN CUTS WITHIN COUNTY ROAD PAVEMENT;**
 - b. be pressure grouted for the full length of the crossing *if* the annular space between pipe and casing and soil exceeds one (1) inch. Brazos County must be given 24 hours notice of pressure grouting operations and have the opportunity to have an inspector on site to observe pressure grouting operations;
 - c. TxDOT Standard Specification Item 476 shall be followed for all boring, jacking, tunneling and joints.
9. Bore Pits
 - a. no pits shall remain open longer than 2 days;

- b. all pits shall have proper traffic control measures in place. See Traffic Control Plan listed above.
 - c. pits shall NOT be located within ten (10) feet from the edge of pavement without prior approval from the County Engineer or his representative;
 - d. when pits are to remain open for more than 8 hours, due diligence will be used in protecting the spoil pile to prevent drainage problems;
 - e. based upon soil conditions, the County Engineer or his representative may require shoring to protect pavement integrity;
 - f. based upon soil conditions, the County Engineer or his representative may require pits be placed further from the edge of road.
10. Any installation within ten (10) feet of edge of pavement shall meet the following:
- a. location must be approved by the County Engineer or his representative
 - b. backfilled with cement stabilized material.
 - c. based upon soil conditions, the County Engineer or his representative may require shoring to protect pavement integrity.
 - d. All excess water and mud shall be removed from the trench prior to backfilling. Any backfill placed during a rainy period or at other times where excess water cannot be prevented from entering the trench will be considered TEMPORARY and shall be replaced with PERMANENT cement stabilized material as soon as weather permits;
 - e. All disturbed base and pavement materials shall be removed and restored to the satisfaction of the County Engineer or his representatives.
 - f. No side or lateral tamping to fill voids under the base and pavement materials is allowed.
11. Company must be careful to not jeopardize the slope or integrity of the shoulder of the road. In the event Company damages the slope, shoulder or any other portion of the right-of-way, Company will be responsible for repairing the damage and replacing the right-of-way to the condition it was prior to commencing construction.
12. Operation of construction and/or maintenance equipment on the traveled surface of any improved County road will not be permitted, except in an instance whereby the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines cannot be accomplished by any other method and in this event all such equipment shall be of the rubber tire variety. Appropriate traffic control shall be provided meeting TMUTCD requirements.
13. In the event said construction and/or maintenance and/or repair requires Company to remove, cut or jeopardize any section of the road (asphalt, cement, road base, etc), Company will be required to provide a performance bond or letter of credit securing necessary repairs. Said bond amount will be determined by the County Engineer.
14. The applicant shall submit a letter of "No Objection" from the Army Corps of Engineers for all designated wetlands and environmentally sensitive lands.

E. Emergency work

- 1. In the event Company is required to perform emergency services, that requires excavation in a County Right of Way, and unable to notify the County Engineer prior to conducting emergency repairs, Company shall notify County Engineer within 24 hours of beginning construction/repairs. This will allow the County Engineer and Road & Bridge Office an opportunity to inspect the site to ensure the integrity of the County Right of Way and traffic safety controls used.

F. Repairs to existing facilities

- 1. Maintenance and/or repair to existing cables, conduits, and/or pole lines which require disturbance of the soil, shall not be performed until plans describing such maintenance and/or repair have been approved by the County Engineer or designated representative and a permit has been obtained.

G. Relocation of utilities:

- 1. When and if the County Engineer determines that it is necessary for the construction, repair, improvement, alteration or relocation of all or any portion of said road, any or all poles, wires, pipes, cables or other facilities and appurtenances authorized hereunder, shall be removed from said road, or reset or relocated thereon, as required by the County Engineer within a reasonable time as determined by the County Engineer and Utility Company, and at the expense of the Utility Company.

H. High Pressure Pipelines

- 1. All utility Permits for high pressure pipelines (generally 60 PSI or greater), whether pertaining to controlled access or non-controlled access installations, should contain the following additional information in the description of the permit.

- diameter
- wall thickness
- material specification
- minimum yield strength
- maximum operation pressure of the pipeline

- 2. With the exception of the maximum operation pressure of the pipeline, this information is to be supplied for both the carrier pipe and the casing.

- 3. Assurance must also be given that the installation material and design meet the minimum Federal Safety Standards for Liquid and Gas Pipe Lines. Assurance must be provided on company letterhead and signed by an authorized representative of the company.

4. Petroleum Pipelines:

Type of Pipeline	Depth (below deepest ditch grade)	Special Requirements
Encased Pipe	Less than 10'	Must be covered with concrete pad at least 36" deep
Encased Pipe	Greater than 10'	No concrete pad required
Non-Cased Pipe	Less than 10'	Must be covered with concrete pad at least 48" deep
Non-Cased Pipe	Greater than 10'	No concrete pad required

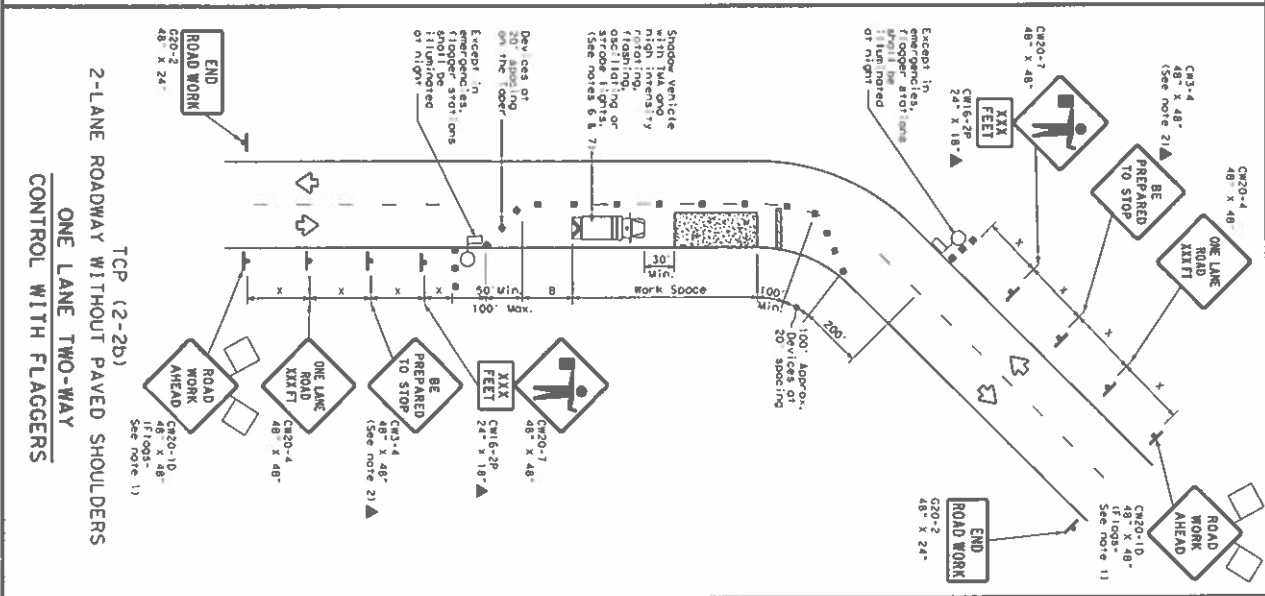
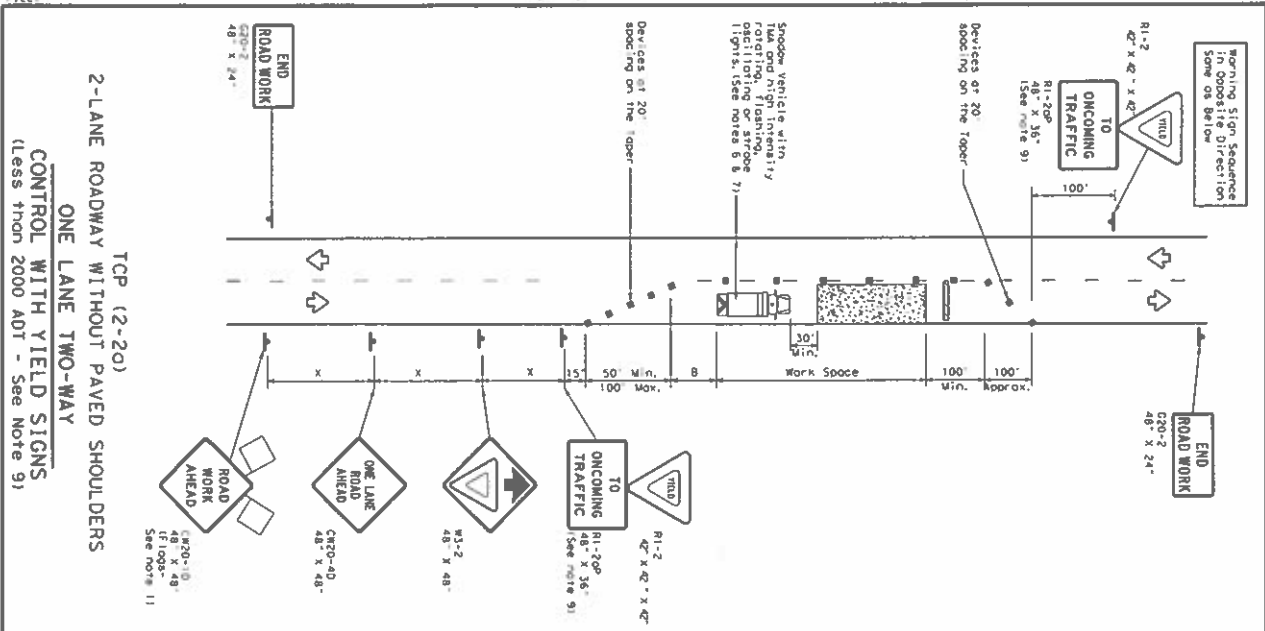
The Concrete pad shall be minimum of 3" thick and width shall be pipe diameter plus 18" minimum.

- 5. Under no circumstances will a pipeline be installed parallel to a County Road within the Right-of-Way. Transmission lines have been determined to be petroleum pipelines (which includes natural gas lines) and shall not be parallel to a County Road.

- 6. Natural Gas Distribution is a line that serves the final customer.

DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: _____
FILE: _____



LEGEND

Symbol	Type 3 Bar Code	Channelizing Devices
	Truck Mounted Attenuator (TMA)	
	Trailer Mounted Portable Changeable Message Sign (PCMS)	
	Traffic Flow	
	Flagger	

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those depicted with the "T" (Traffic Symbol) by the Engineer, when stated elsewhere in the plans, or for "optional" message signs, when approved.
- The R20-4-BE "PREPARED TO STOP" sign may be installed after the R20-2 "ONE LANE" ROAD WORK AHEAD sign, but proper sign spacing shall be maintained.
- Flagger should use two-way radios or other method of communication to control traffic.
- A stopper vehicle with a flag should be used on the "T" can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road work conditions require the traffic control to remain in place, one (1) barrier/stopper device may be substituted for the stopper vehicle. Additional stopper vehicles with flags may be positioned off the paved surface, near to those shown in order to protect a wider work space.

TCP (2-2a)

- The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
- The R1-26p "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a shoulder of at least 10 feet minimum working depth.

TCP (2-2b)

- Channelizing devices on the center line may be omitted when a dither bar is leading traffic and the work space is maintained for the duration of the project.
- If the work space is located near a horizontal or vertical curve, the buffer distance should be increased in order to maintain stopping sight distance for the flagger and a queue of stopped vehicles. (See table above).
- Stopper device use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

Notes:

The contractor must notify the precinct at least 48 hours before a lane closure. No lanes shall be closed during the hours of 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM Monday through Friday.

Traffic Department of Transportation
Operations Division
Schedule

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP (2-2) - 18

DATE	10/27/18	BY	DL
TIME	10:00	DATE	10/27/18
FILE	10/27/18	DATE	10/27/18

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓	✓	✓	✓	✓

* Conversion Roadways Only
* Lengths have been rounded off.
* Length of taper (FT) width of offset (FT) spaced sequentially

Factor	Formula	Minimum Taper Length (ft)	Minimum Channelizing Device Spacing (ft)	Minimum Spacing of Channelizing Devices (ft)	Minimum Spacing of Channelizing Devices (ft)	Minimum Spacing of Channelizing Devices (ft)
30	150	165	180	30	60	120
35	175	195	215	35	70	140
40	200	225	245	40	80	160
45	225	255	275	45	90	180
50	250	285	305	50	100	200
55	275	315	335	55	110	220
60	300	345	365	60	120	240
65	325	375	395	65	130	260
70	350	405	425	70	140	280
75	375	435	455	75	150	300