



**SAN ANTONIO WATER SYSTEM  
CENTRAL WATER INTEGRATION PIPELINE  
SEGMENT 5-1  
SAWS Job No. 18-8612  
SAWS Solicitation No. CO-00181**

**ADDENDUM No. 7  
August 10, 2018**

**To Bidder of Record:**

This addendum, applicable to work referenced above, is an amendment to the bidding documents and as such will be made a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the addendum number and issue date in the space provided in submitted copies of the proposal.

**CLARIFICATIONS**

1. None.

**QUESTIONS AND ANSWERS**

1. None.

**REVISIONS TO CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS**

**CONTRACT DOCUMENTS TABLE OF CONTENTS**

- a) Add the following entry after 'APPENDIX F METROPOLITAN BUSINESS PARK AS-BUILTS'

APPENDIX G TXDOT PERMIT APPROVAL LETTER

**CONTRACT DOCUMENTS APPENDICES**

- a) Add Appendix G to the Contract Documents as included as part of this addendum.

**SPECIAL PROVISIONS**

- a) REVISIONS TO SAWS STANDARD SPECIFICATIONS ITEM NO 101 (PREPARING OF RIGHT OF WAY), subsection 1.01, add the following paragraph to the end of "Connection to 48" Pipeline at Voigt (Car Wash)"

The CONTRACTOR shall reduce the fenced work area during non-working hours (i.e. Saturday and Sunday) in order to allow the four (4) southerly parking stalls in the parking lot to be accessible to tenants and allow a minimum width of 24-feet for two-way traffic between the building and the fenced work area. The CONTRACTOR shall move all equipment and materials into the reduced work area and/or move equipment and materials from the site as necessary. The only time the CONTRACTOR does not have to reduce the fenced work area during the weekend is when the 48-inch connection shall be performed as described in the Supplementary Conditions.

**SPECIAL CONDITIONS**

- a) Section SC-2.0 PERMITS, subparagraph SC-2.3 add the following sentence to the end of the paragraph:

See Appendix G for the TxDOT Approval Letter for Permit Application No. SAT20180628163508.

**SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

- a) Section 1.04 TEMPORARY UTILITIES, subparagraph B, item 1., add the following sentences to the end of the paragraph:

CPS Power at the Terminus Site will be available by November 15, 2018. CPS Power at the Cornerstone Site will be available by November 30, 2018.

The remainder of the bid documents remain unchanged.

This addendum is comprised of a total of **15** pages (including attachments).



**Mark W. Bush, P.E.**  
Tetra Tech, Inc.



8/10/2018

END OF ADDENDUM No. 7



**APPENDIX G**  
**TxDOT PERMIT**  
**APPROVAL LETTER**

Approval Form  
Online version 11/2005

**APPROVAL**

To Gerardo Gomez

San Antonio Water System2800 US 281 NSan Antonio, TX 78212Date 8/8/2018Application No. SAT20180628163508District App. No. WA (BU)Highway SL 1604Control Section 245202Maintenance Section West BexarCounty Bexar

TxDOT offers no objection to the location on the right-of-way of your proposed utility installation, as described by Notice of Proposed Utility Installation No. SAT20180628163508 (District Application No. WA (BU)) dated 8/8/2018 and accompanying documentation, except as noted below.

**If installation of the line has not begun prior to the 91st calendar day from date of issuance, we acknowledge that, unless otherwise extended, TxDOT's approval of this request will automatically expire, and you will be required to apply for a new permit. You are required to notify TxDOT inspector Joe Ibarra at (210)844-8317 48 hours (2 business days) before you start construction to coordinate work days, inspections and traffic control plans. Lane closures are only permitted after traffic control plan is reviewed by TxDOT prior to the beginning of any construction activities. You are also required to keep a copy of this Approval, the Notice of Proposed Installation and any approved amendments at the job site at all times. Applicant shall adhere to the TxDOT San Antonio District Special Provisions and the Texas Administrative Code.**

When installing utility lines on controlled access highways, your attention is directed to governing laws, especially to Texas Transportation Code, Title 6, Chapter 203, pertaining to Modernization of State Highways; Controlled Access Highways. Access for serving this installation shall be limited to access via (a) frontage roads where provided, (b) nearby or adjacent public roads or streets, (c) trails along or near the highway right-of-way lines, connecting only to an intersecting roads; from any one or all of which entry may be made to the outer portion of the highway right-of-way for normal service and maintenance operations. The Installation Owner's rights of access to the through-traffic roadways and ramps shall be subject to the same rules and regulations as apply to the general public except, however, if an emergency situation occurs and usual means of access for normal service operations will not permit the immediate action required by the Utility Installation Owner in making emergency repairs as required for the safety and welfare of the public, the Utility Owners shall have a temporary right of access to and from the through-traffic roadways and ramps as necessary to accomplish the required emergency repairs, provided TxDOT is immediately notified by the Utility Installation Owner when such repairs are initiated and adequate provision is made by the Utility Installation Owner for convenience and safety of highway traffic.

The installation shall not damage any part of the highway and adequate provisions must be made to cause minimum inconveniences to traffic and adjacent property owners. In the event the Installation Owner fails to comply with any or all of the requirements as set forth herein, the State may take such action as it deems appropriate to compel compliance.

It is expressly understood that the TxDOT does not purport, hereby, to grant any right, claim, title, or easement in or upon this highway; and it is further understood that the TxDOT may require the Installation Owner to relocate this line, subject to provisions of governing laws, by giving thirty (30) days written notice.

If construction has not started within six (6) months of the date of this approval, the approval will automatically expire and you will be required to submit a new application. You are also requested to notify this office prior to commencement of any routine or periodic maintenance which requires pruning of trees within the highway right-of-way, so that we may provide specifications for the extent and methods to govern in trimming, topping, tree balance, type of cuts, painting cuts and clean up. These specifications are intended to preserve our considerable investment in highway planting and beautification, by reducing damage due to trimming.

**Special Provisions:**

**Form 1082 Transguide Network for design 08 15 2016 Section Map Bexar County SAT Special Provision Revised 2018 06 28**

You are required to notify TxDOT 48 hours (2 business days) before you start construction to allow for proper inspection and coordination of work days and traffic control plans. Use the UIR website for the 48-hour notification. DO NOT start construction until you have coordinated the construction start date and inspection with TxDOT. You are also required to keep a copy of this Approval, the Notice of Proposed Installation, and any approved amendments at the job site at all times.

|          |                                       |
|----------|---------------------------------------|
|          | Texas Department of Transportation    |
| By       | <u>Henry Fojtik</u>                   |
| Title    | <u>Maintenance Contracts Engineer</u> |
| District | <u>San Antonio</u>                    |



# Utility Installation Request

Form 1082  
(Rev. 12/09)  
Page 1 of 2

|                                                                                                                       |               |                |
|-----------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| PERMIT NUMBER                                                                                                         |               |                |
| GLOBAL POSITIONING SYSTEM COORDINATES (GPS)<br>NORTH AMERICAN DATUM 1983, (1993 ADJUSTMENT)<br>IN DECIMAL DEGREES(DD) |               |                |
|                                                                                                                       | LATITUDE (DD) | LONGITUDE (DD) |
| BEGIN                                                                                                                 |               |                |
| END                                                                                                                   |               |                |

To the Texas Transportation Commission  
c/o District Engineer Texas Department of Transportation

Date \_\_\_\_\_

\_\_\_\_\_, Texas

Formal notice is hereby given that \_\_\_\_\_

proposes to place a \_\_\_\_\_

line within the right of way of \_\_\_\_\_, RM \_\_\_\_\_, Displ. \_\_\_\_\_, to RM \_\_\_\_\_ Displ. \_\_\_\_\_ in

\_\_\_\_\_ County Texas, MNT Sec. No. \_\_\_\_\_ as follows: (give location, length, general design, etc.

Use additional sheet as needed)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

We will construct and maintain the line on the highway right of way as shown on the attached drawing and in accordance with the rules, regulations and policies of the Texas Department of Transportation (TxDOT), and all governing laws, including, but not limited to, the "Texas Engineering Practice Act," "Federal Clean Water Act," the "National Endangered Species Act," "Americans with Disabilities Act," and the "Federal Historic Preservation Act." Upon request by TxDOT at any time, we will submit to TxDOT proof of compliance with all governing laws, rules and regulations before commencement of construction. Plans shall include the design, proposed location, vertical elevations, and horizontal alignments of the facility based on the department's survey datum, the relationship to existing highway facilities and the right of way line, traffic safety and access procedures, and location of existing utilities that may be affected by the proposed utility facility. The location and description of the proposed line and appurtenances is more fully shown by a complete set of drawings attached to this Utility Installation Request (Request). We will give plans to TxDOT for each future proposed modification or expansion to our facility and TxDOT will have 30 days to review and approve the plans prior to commencement of the work. A new Request may be required as a condition of approval.

Our organization will use Best Management Practices to minimize erosion and sedimentation resulting from the proposed installation, and we will revegetate the project area as indicated under "Revegetation Special Provisions." We will also ensure that traffic control measures complying with applicable portions of the *Texas Manual of Uniform Traffic Control Devices* will be installed and maintained for the duration of this installation.

When installing, modifying or maintaining our utility on controlled access facilities, we shall conform to the Texas Transportation Code, Title 6 Roadways, Chapter 203, Subchapter C, Control of Access, §203.031 (<http://www.statutes.legis.state.tx.us/>). We shall limit access for servicing this installation to access via (a) frontage roads where provided, (b) nearby or adjacent public roads or streets, (c) trails along or near the highway right of way lines, connecting only to an intersecting road; from any one or all of which entry may be made to the outer portion of the highway right of way for normal service and maintenance operations. Our rights of access to the through traffic roadways and ramps shall be subject to the same rules and regulations that apply to the general public.

It is expressly understood that TxDOT does not purport hereby to grant any right, claim, title or easement in or upon highway right of way. TxDOT may require us to relocate this line, subject to the provisions of governing laws, by giving us at least 30 days written notice. We understand a new Request will be required for the relocation. We will notify TxDOT prior to commencement of any operation which requires pruning of trees so that TxDOT may provide specifications to govern performance of work, including trimming, topping, tree balance, type of cuts, painting cuts and clean up. We understand that these specifications are intended to preserve TxDOT's considerable investment in highway beautification plantings and by reducing damage due to trimming and to protect known endangered species.

Our installation shall not damage any part of the roadway structure or associated appurtenances. We will make adequate provisions to cause minimum inconveniences to the traveling public and adjacent property owners. We will not open-cut driveways or intersecting roadways without specific written permission from the owner.

Following approval, we will begin construction on or after \_\_\_\_\_

Month/Day/Year

We understand TxDOT may place additional provisions and requirements as listed below, based upon, but not limited to, the type of utility being installed, local site conditions, soil types and traffic.

| <b>Additional Provisions and Requirements (for TxDOT input only)</b>                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>• General Special Provisions:</b></p> <p><input type="checkbox"/> Are attached.</p> <p><input type="checkbox"/> Are not attached.</p>                                                                                                                                                                                                                                                                                                                          |
| <p><b>• As-built Plans/Certifications of Construction:</b></p> <p><input type="checkbox"/> Are required and shall be certified as accurate by an authorized representative of the company.</p> <p><input type="checkbox"/> Are required and shall be signed and sealed by a State of Texas Licensed Professional Engineer.</p> <p><input type="checkbox"/> Are not required</p> <p><input type="checkbox"/> Certification that utility was installed as approved</p> |
| <p><b>• Re-vegetation Special Provisions:</b> In order to minimize erosion and sedimentation resulting from the proposed installation, the project area will be re-vegetated:</p> <p><input type="checkbox"/> in accordance with TxDOT's Standard Specification Item 164 which specifies the appropriate grass seed mix to be used, or:</p> <p><input type="checkbox"/> as indicated on the attachment.</p>                                                          |
| <p>TxDOT Representative to be notified 48 hours prior to beginning construction:</p>                                                                                                                                                                                                                                                                                                                                                                                 |

If approved, we understand we will assume all risks associated with this installation within the TxDOT right of way. These risks include injuries to our workers, damage to contiguous utility lines that may be in the area and injuries or damage resulting from our failure to properly install and maintain the line.

If the character, use or function of our installation is materially changed from that approved under this Request, we will notify TxDOT within 30 days after the change. In the event of a voluntary or involuntary loss of public utility status, or other legal authority for longitudinal placement of the utility facility in the highway, or there is an abandonment of the facility without the approval of TxDOT, we will at our expense remove the unauthorized portion of the facility from the right of way.

If installation of the line is not begun prior to the 91st calendar day from date of issuance, we acknowledge that, unless otherwise extended, TxDOT's approval of this Request will automatically **expire**, and we will be required to resubmit our Request. All Request submissions, whether due to expiration of approval under this paragraph or new Requests for modifications and relocations shall be in accordance with the governing laws, rules, regulations and policies existing at the time of submission. In the event we fail to comply with any or all of the requirements as set forth in this Request, the State may take such action as it deems appropriate to compel our compliance.

By signing as/for the requestor below, I certify that I am authorized to represent the requestor, that I agree to the provisions and requirements included in this Utility Installation Request, and our commencement of construction will further attest to our review and acceptance of said additional provisions and requirements.

| <b>REQUESTOR</b>                                                                                                                                                                                                                                      | <b>APPROVED BY TxDOT</b> |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-----------------|----------------|--|--|
| <b>Date:</b>                                                                                                                                                                                                                                          | <b>Date:</b>             |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| <b>By:</b>                                                                                                                                                                                                                                            | <b>By:</b>               |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| <b>Signature:</b>                                                                                                                                                                                                                                     | <b>Signature:</b>        |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| <b>Title:</b>                                                                                                                                                                                                                                         | <b>Title:</b>            |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| <b>Address:</b>                                                                                                                                                                                                                                       | <b>Address:</b>          |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
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| <b>City</b>                                                                                                                                                                                                                                           | <b>State</b>             | <b>Zip Code</b>         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| (            )                                                                                                                                                                                                                                        |                          |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
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| <b>Area Code</b>                                                                                                                                                                                                                                      | <b>Telephone Number</b>  |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |
| <b>Area Code</b>                                                                                                                                                                                                                                      | <b>Telephone Number</b>  |                         |                                                                                                                                                                   |                  |                         |  |                                                                                                                                                                                                                                                       |             |              |                 |                |  |  |

**Network limits by Highway**

- IH 10 - from Old Camp Bullis Rd. to Roland Ave. (US 87)
- IH 35 - from Southcross to FM 1518 in Comal County
- IH 37 - from IH 35 to US 181
- IH 410 - from Leon Creek/Culebra to IH 35
- US 90 - from IH 10/IH 35 to Medio Creek
- US 281 - from IH 35/37 to Bitters Rd.
- Loop 1604 - from Tradesman to Bandera Rd (SH 16)

**IF YOU HAVE QUESTIONS CONCERNING THE LOCATION OF THE TRANSGUIDE NETWORK PLEASE CONTACT:**

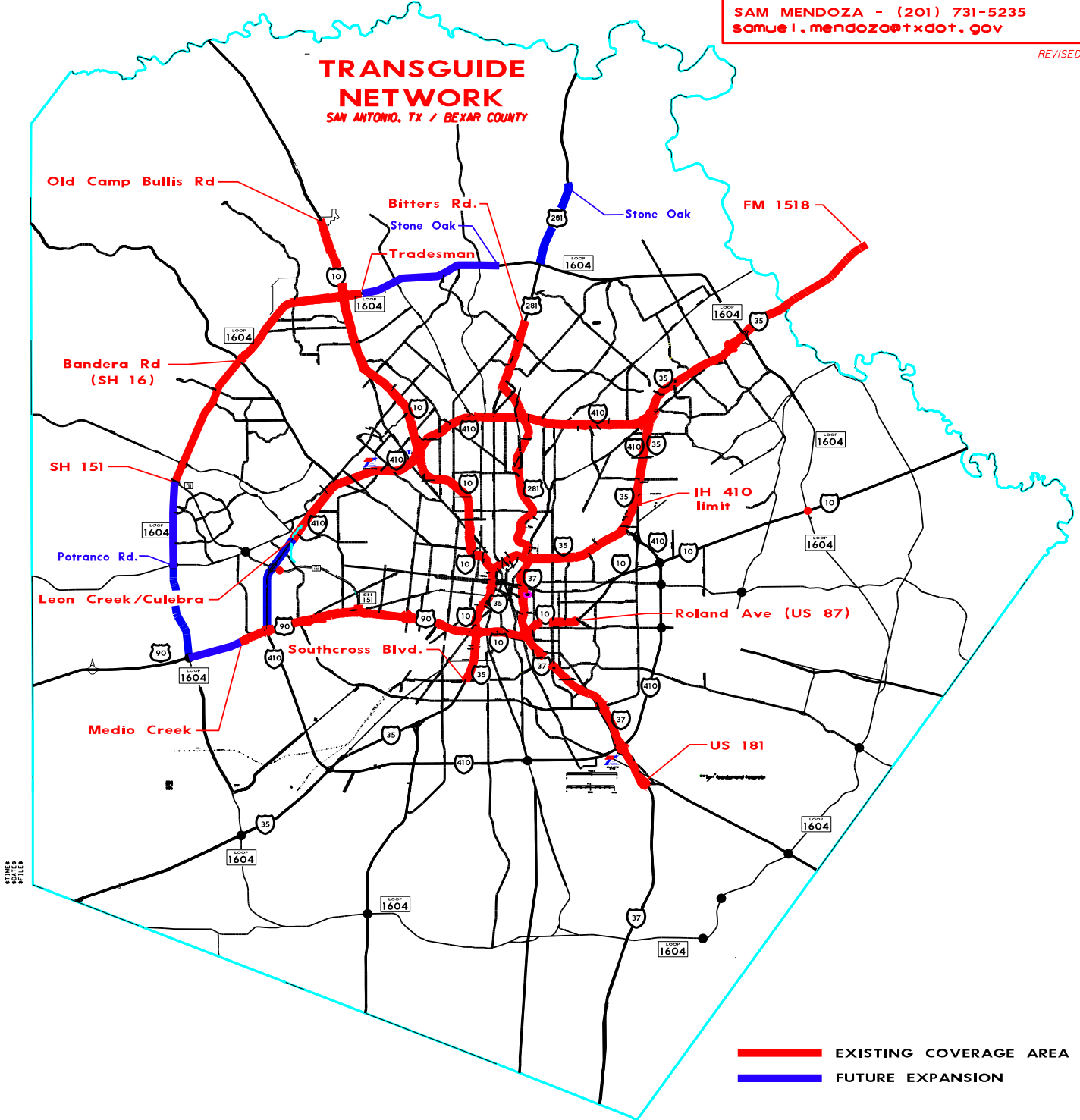
**BRAD ADAMI - (210) 731-5109  
brad.adami@txdot.gov**

**JOHN GIANOTTI - (210) 731-5240  
john.gianotti@txdot.gov**

**SAM MENDOZA - (201) 731-5235  
samuel.mendoza@txdot.gov**

REVISED 8/15/16

**TRANSGUIDE NETWORK**  
SAN ANTONIO, TX / BEXAR COUNTY








STATE  
DATE  
SCALE



**EXISTING COVERAGE AREA**  
**FUTURE EXPANSION**

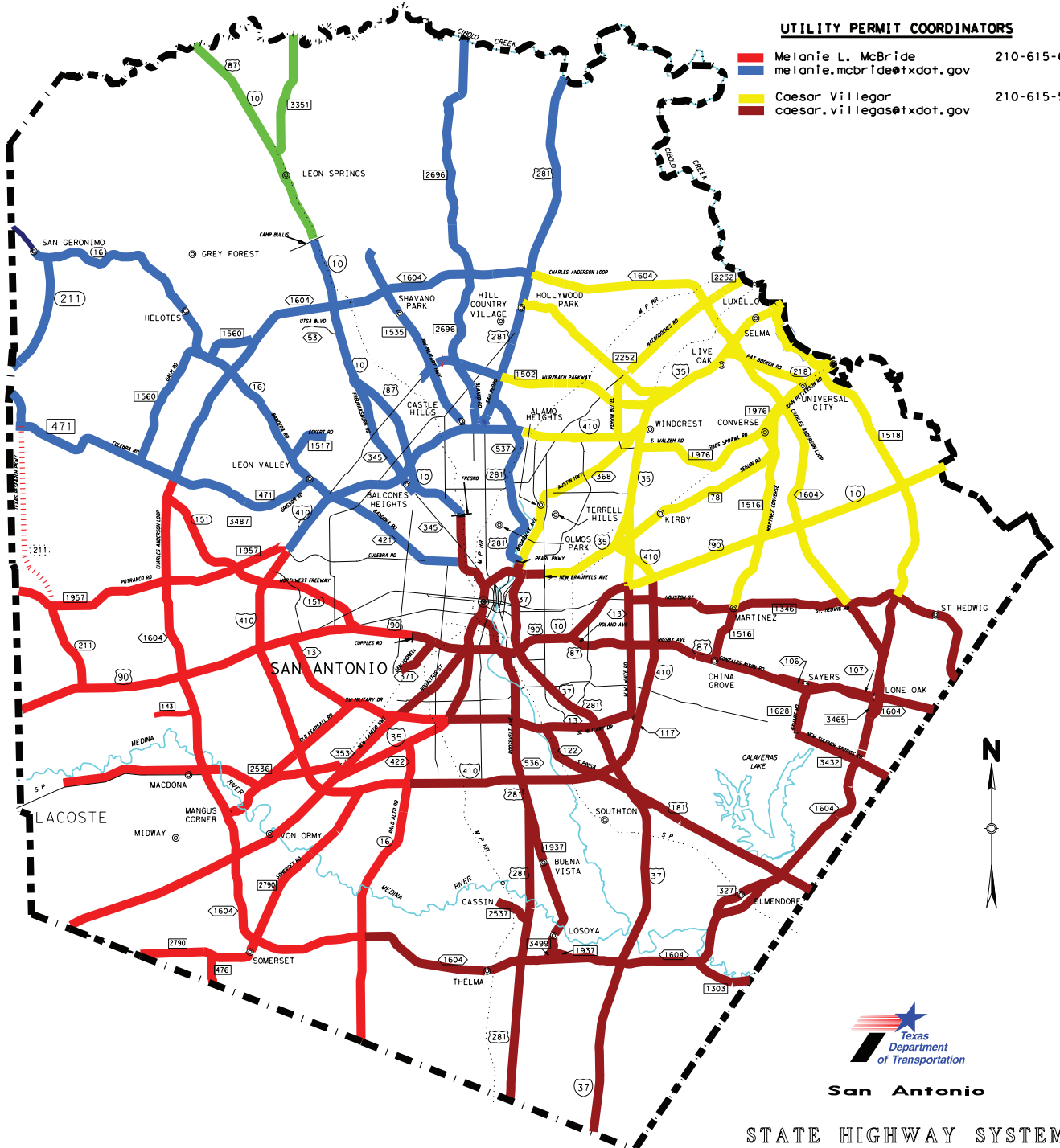


**BEXAR COUNTY UTILITY INSPECTORS**

|                                                                                   |                                                |                                              |
|-----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|
|  | BOERNE OFFICE                                  | 830-816-2430                                 |
|  | Bobby Gonzales- NE<br>bobby.gonzales@txdot.gov | 210-218-2371 (CELL)<br>210-615-6335 (OFFICE) |
|  | Robert Salazar- SE<br>robert.salazar@txdot.gov | 210-213-9421 (CELL)                          |
|  | Ernie Casias- SW<br>ernest.casias@txdot.gov    | 210-669-2649 (CELL)                          |
|  | Joe Ibarra- NW<br>jose.ibarra@txdot.gov        | 210-844-8317 (CELL)<br>210-615-6334 (OFFICE) |

**UTILITY PERMIT COORDINATORS**

|                                                                                     |                                                 |              |
|-------------------------------------------------------------------------------------|-------------------------------------------------|--------------|
|  | Melanie L. McBride<br>melanie.mcbride@txdot.gov | 210-615-6430 |
|  | Caesar Villegar<br>caesar.villegas@txdot.gov    | 210-615-5866 |



**San Antonio**

**STATE HIGHWAY SYSTEM  
BEXAR COUNTY**

REVISED JUNE 1, 2018

**SPECIAL PROVISION FOR  
TxDOT – SAN ANTONIO DISTRICT  
UTILITY PERMITS  
(Revised June 28, 2018)**

1. **Effective Period of Permit Approval.** A TxDOT utility permit is void if installation does not begin within the 91<sup>st</sup> calendar day from date of issuance/approval. Unless otherwise extended, TxDOT approval of this Request will automatically expire and the utility company will be required to resubmit the Request.
2. **Minimum Depth of Cover.** Refer to the attached, MINIMUM DEPTH OF COVER TABLE.
3. **Locating Existing Utilities.** Before beginning work, refer to the attached, LOCATING PUBLIC AND TxDOT UTILITIES.
4. **Aerial Electric Lines.** Aerial electric power lines crossing over the highway shall be installed and maintained a minimum of twenty-two feet (22') above the surface of the traffic lanes. For electric power lines with greater than 50,000 volts, the clearance shall be increased in accordance with the National Electric Safety Code as published in the National Bureau of Standards, Handbook 30.
5. **Aerial Communication Lines.** Aerial communication lines crossing over the highway shall be installed and maintained a minimum of eighteen feet (18') above the surface of the traffic lanes.
6. **Utility Poles.** Poles installed to accommodate aerial utilities shall be located within three feet (3') of the right of way (ROW) line. Poles with bases greater than thirty-six inches (36") in diameter shall not be placed within the ROW.
7. **Active Underground Utility Work.** To insure that disturbed areas are restored and revegetated properly and in a reasonable period as the utility work progresses, the following requirements shall apply:

Unless otherwise approved or directed by TxDOT, the length of "active utility work" shall not exceed one mile in length. "Active utility work" shall be defined as the total disturbed area measured from the beginning of open trenching to the point where backfill has been compacted, the ROW has been restored to its original line and grade, any structures damaged by the utility work have been repaired, erosion control measures have been placed and are being properly maintained, approved topsoil, seed and compost have been placed uniformly, and watering for revegetation has begun. "Active utility work" also includes areas of bore pits and receiving pits; however, it does not include the underground boring length. When any area of "active utility work" is substantially complete (ie, watering of seeded areas has begun), that area is no longer considered to be "active utility work", and "active utility work" can proceed further within the ROW as long as it does not exceed the above appropriate limits. An area where TxDOT determines that the "active utility work" is substantially complete does not mean that TxDOT considers that area totally acceptable and complete.

8. **Trench Backfill.** Refer to attached, TRENCH BACKFILL DETAIL WHEN OPEN-CUTTING OF PAVEMENT IS ALLOWED and to TRENCH BACKFILL DETAIL NON PAVEMENT. All excavations within ten feet (10') of the edge of pavement shall be backfilled to within six inches (6") of natural ground with flowable backfill in accordance with TxDOT Standard Specification Item 401. Excavations not within ten feet (10') of the pavement shall be backfilled by tamping in six inch (6") horizontal layers to the density of the surrounding soil or as directed by a TxDOT inspector.

**SPECIAL PROVISION FOR  
TxDOT – SAN ANTONIO DISTRICT  
UTILITY PERMITS  
(Revised June 28, 2018)**

9. **Erosion Control and Revegetation.** This work shall be done in accordance with the Texas Department of Transportation (TxDOT) “Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges”. Following all required filling and compaction of trenches, all surplus material shall be removed and the ROW shall be reshaped to its original condition or better. Four inches (4”) of topsoil shall be spread over all disturbed areas and the area shall be seeded. One inch (1”) of General Use Compost, Item 161, Compost, shall be uniformly applied over all disturbed areas after seeding is complete. The seeded area shall be irrigated as required to establish vegetation. Block sod shall be installed on slopes steeper than 4:1. For sodded areas, apply one inch (1”) of General Use Compost on top of the sod following installation. Temporary erosion control devices (such as silt fences, rock berms, soil retention blankets, etc.) should be shown on the utility construction plans in areas where utility work will leave disturbed or loose soil across or along creeks and streambeds, on steep slopes, or in environmentally sensitive areas such as the Edwards Aquifer Recharge Zone. A TxDOT utility inspector may direct that such devices be installed even when and where they are not shown on the plans. These areas must be protected from erosion. Unless otherwise directed or approved by the TxDOT inspector, permanent vegetation (at least 70% of normal vegetation cover of the surrounding undisturbed area) must be established by the utility company/contractor before the utility work is considered acceptable and completed by TxDOT.
10. **Boring, Tunneling and Jacking.** Boring and jacking of utility lines shall be provided as specified below.
- a. **Under Highways.** Underground utilities crossing the highway shall be encased. Casing shall consist of a pipe or other separate structure around and outside the carrier line. The utility must demonstrate that the casing will be adequate for the expected loads and stresses. Casing pipe shall be steel, concrete, or plastic pipe as approved by the district, except that if horizontal directional drilling is used to place the casing, high-density polyethylene (HDPE) pipe must be used in place of plastic pipe. Utility lines to be constructed under any TxDOT highway shall be installed by boring and jacking with steel casing. Boring shall extend a minimum of ten feet (10’) from the edge of pavement or curb. Use of water or other fluids in connection with boring operations will be permitted only in sufficient quantity to lubricate the boring bit and provide a smooth flow of cuttings. Jetting will not be permitted.
- b. **Under Paved County Roads and City Streets.** Utility lines to be constructed under an existing paved (asphalt pavement or concrete pavement) county road or city street intersection at a TxDOT highway, shall be installed by boring and jacking with steel casing.
- c. **Under Paved Driveways.** Utility lines to be constructed under an existing paved driveway, asphalt or concrete, shall be installed by boring and jacking, unless the utility company furnishes TxDOT with a “Letter of No Objection” signed by the driveway owner allowing open cutting of their driveway.
- d. **Under Unpaved County Roads, City Streets, and Driveways.** Utility lines to be constructed under an existing unpaved county road, city street intersection at a TxDOT Highway, or unpaved driveway may be open cut. Open cutting of an unpaved driveway requires prior notification to the driveway owner.
- e. **Under Desirable Trees.** Desirable trees generally include, but are not limited to, trees with a minimum trunk diameter of six inches (6”) that TxDOT determines to be of environmental or

**SPECIAL PROVISION FOR  
TxDOT – SAN ANTONIO DISTRICT  
UTILITY PERMITS  
(Revised June 28, 2018)**

aesthetic value. TxDOT may also identify small trees, groups of trees, shrubs or other significant features on the ROW that will require protection. Boring or tunneling is required when underground utility lines are to be placed within the “critical root zone” (CRZ) of “desirable trees” located within highway ROW or on adjacent property. The CRZ is defined as the area between the tree trunk to five feet (5’) from the tree trunk or the distance from the tree trunk to the drip line, whichever is greater. Bores shall be at a minimum depth of three feet (3’) through the CRZ.

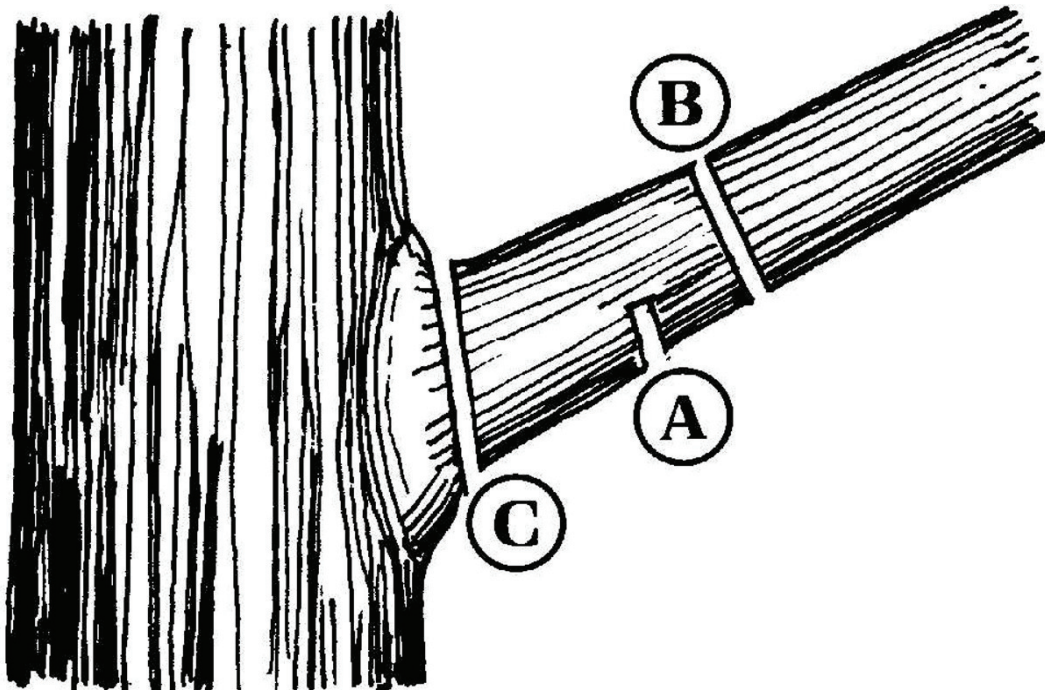
Boring or tunneling under all “desirable trees” is required except in areas where TxDOT determines that planned highway construction/maintenance work would require tree removal in the near future or when the TxDOT inspector approves of open trenching or complete removal of the tree.

11. **Protection of Trees and Landscaping.** Existing trees and landscaping within the ROW shall be protected as specified below. Removal of trees from the ROW will require prior TxDOT approval. Contractor/Utility Company shall install protective fencing around the CRZ of trees or plants as directed by TxDOT before beginning work. Fencing must be at least four feet (4’) in height and be supported by eight feet (8’) steel T-posts spaced six feet (6’) on center and driven a minimum of twenty inches (20”) into existing grade. Place the fencing continuously between posts and attach it to the posts with a minimum of four (4) wire ties per post. No access, trenching, excavating, filling or compaction is allowed within the fenced area. Maintain fencing in place until completion of work or until removal is approved or directed by TxDOT. Work under this permit may be suspended due to failure to install or maintain the protective fencing. Encroachment into the fenced area may also result in additional mitigation requirements to be determined by TxDOT.
  - a. **Tree Pruning.** All tree pruning within the ROW will require prior TxDOT approval. Refer to the attached, TREE PRUNING SPECIFICATIONS. All oak trees shall be treated with an approved tree wound dressing within 20 minutes of causing damage to a trunk or limb or making a pruning cut.
  - b. **Landscaping.** When existing landscaping is located near the proposed utility alignment, the utility contractor shall notify TxDOT and the owner of the landscaping prior to the proposed utility installation. TxDOT may require underground utilities to be installed by boring under such landscaping or by replacement of specific landscape items. Landscaping is defined as, but not limited to, trees, shrubs, grass, irrigation lines, landscape pavers, sidewalks, and other ROW improvements.
12. **Manholes.** All manhole covers shall be installed flush with the ground surface. Manholes shall be straight, inline installations.
13. **Traffic Control and Hours/Days of Work.** Traffic control in utility work zones shall conform to applicable requirements of the “Texas Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI”. Adequate signs, barricades, flag personnel, etc. shall be used to insure complete compliance with the Manual as deemed necessary by the TxDOT inspector. Travel lane closures are permitted only after a traffic control plan is approved by TxDOT prior to beginning any construction activities. **Saturday, Sunday or Holiday Work.** Work on these days will not be permitted unless directed or approved by TxDOT. Work hours shall be from 8:00 am to 5:00 pm unless otherwise directed or approved by TxDOT.

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## Tree Pruning Specifications

Discuss tree pruning with the TxDOT inspector prior to beginning the work. Make cuts at a major fork in the branch or if the entire limb is to be removed, remove the branch at the trunk. This may require the desired cut to be made off of the right of way. **Obtain permission from property owner prior to making pruning cuts on private property.** Make pruning cuts to avoid leaving a stub and without cutting into the branch collar. Generally, the branch collar is visible. If it is not visible, make the final cut approximately ½” from the parent limb or trunk. For branches 2” or larger in diameter, remove the limb using 3 cuts as shown in the diagram to avoid damage to the tree. Treat all wounds and cuts on all oaks with a commercial tree wound dressing or other approved material within 20 minutes of cutting. Disinfect pruning tools with a 10% bleach solution or with isopropyl alcohol before moving from one oak tree to another.



TxDOT San Antonio District Utility Permit Pruning Specification (4-18-13)

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**MINIMUM DEPTH OF COVER TABLE**

(FOR UNDERGROUND UTILITIES ON  
 HIGHWAY RIGHT OF WAY)

FOR UTILITY LINES INSTALLED PARALLEL WITH OR ACROSS TxDOT RIGHT OF WAY (ROW):

| TYPE OF UTILITY                                                  | CROSSING PAVEMENT OR PARALLEL LESS THAN OR EQUAL TO 10' FROM PAVEMENT EDGE<br>(See Note #1, 2, & 3 below) | UNDER DRAINAGE DITCH OR CHANNEL                                                       | UNDER NATURAL GROUND & MORE THAN 10' FROM PAVEMENT EDGE                               |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| LOW PRESSURE NATURAL GAS (<60 PSI)                               | 60"                                                                                                       | 48"                                                                                   | 48"                                                                                   |
| HIGH PRESSURE NATURAL GAS (>60 PSI) OR LIQUID PETROLEUM PRODUCTS | 60"                                                                                                       | 48"                                                                                   | 48"                                                                                   |
| TELEPHONE<br>(Copper Cable)                                      | 60"                                                                                                       | 24"                                                                                   | 24"                                                                                   |
| TV CABLE                                                         | 60"                                                                                                       | 24"                                                                                   | 24"                                                                                   |
| FIBER OPTIC<br>(Data, Phone or TV)                               | 60"                                                                                                       | 42"                                                                                   | 42"                                                                                   |
| SANITARY SEWER                                                   | 60"                                                                                                       | 30"                                                                                   | 30"                                                                                   |
| WATER                                                            | 60"                                                                                                       | 30"                                                                                   | 30"                                                                                   |
| ELECTRIC                                                         | 60"                                                                                                       | BY VOLTAGE<br>30" (<22,001 volts)<br>36" (22,001-40,001 volts)<br>42" (>40,001 volts) | BY VOLTAGE<br>30" (<22,001 volts)<br>36" (22,001-40,001 volts)<br>42" (>40,001 volts) |

Based on requirements in the Texas Department of Transportation (TxDOT), Utility Accommodation Policy (UAP). See 43 TAC 1.21C.

Notes:

1. Utility lines installed parallel with TxDOT ROW are not permitted under TxDOT highway pavement.
2. Utility lines installed across TxDOT highway pavement, or intersecting TxDOT highways, city streets, and county roads shall be placed inside a steel casing pipe.
3. Utility lines installed within ten feet (10') or less from the edge of pavement shall be backfilled to within 6" of natural ground with flowable backfill in accordance to TxDOT Standard Specification Item 401.

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**LOCATING PUBLIC AND TxDOT UTILITIES**

At least 48 hours before beginning any work under this permit, the contractor shall call the following phone numbers to make arrangements for locating Public and TxDOT underground utilities within the proposed work area:

**Public Utilities:**

It should be understood that not all public utilities are members of the Texas One Call System; and thus, the Texas One Call System will not locate all possible public utilities. The contractor is responsible for contacting all public utility agencies to obtain all utility locations in the proposed work area.

**TxDOT Utilities:**

In Atascosa, Bandera, Bexar, Comal, Frio, Guadalupe, Kendall, Kerr, McMullen, Medina, Uvalde and Wilson Counties.

**TxDOT Electric Office at 210-615-5995** to locate:

- Underground systems that operate overhead green guide sign lighting systems,
- Underground systems that operate storm water pump stations,
- Underground systems that operate highway illumination systems maintained by TxDOT,
- Underground systems that serve illumination at highway truck weigh stations.

**TxDOT Traffic Signal Office at 210-614-8922** to locate:

- Underground systems that operate traffic signals maintained by TxDOT,

**TxDOT Transguide Traffic Management Office at 210-731-5109** to locate:

- Underground systems that operate Transguide traffic management systems

**TxDOT Building Maintenance Office at 210-615-6329** to locate:

- Underground systems that serve highway rest area facilities

**City of San Antonio, Department of Public Works at #311** to locate:

- Underground systems that operate traffic signals maintained by the City of San Antonio

**City Public Service Energy One Call Center 1-800-344-8377** to locate:

- Underground systems that operate the highway illumination system maintained by City Public Service Energy.