



BPC Central Small Diameter Package 4B
Solicitation Number: CO-00370
Job No.: 19-4539

ADDENDUM 1
Thursday, October 8, 2020

To Bidder of Record:

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

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| RESPONSES TO QUESTIONS |
|-------------------------------|

1. Will temporary sound Barriers be required on any portion of this project?

Response: Yes, temporary sound barriers will be required. Per SAWS specification 864 Bypass Pumping, sound-attenuated pump enclosures shall be required on all projects where bypass pumps are located within 50 feet of any residence, business, park, or other presence of people.

2. When reconnecting laterals to the new HDPE (IPS) DR17 sewer main, will a flexible saddle with SS straps be acceptable for all size mains?

Response: No. Lateral reconnections on pipe burst lines shall be made using an Inserta Tee connection including a SDR 26 PVC hub, rubber sleeve, and stainless steel band for connecting new service to the new HDPE pipe. The entire lateral connection shall be encased in cement stabilized sand. Refer to SAWS Specification Item 900.5.19, as well as Changes to the Specifications Item 3 of this addendum.

3. Plan sheets 9 thru 13 of 123 are not viewable. Can you check the downloaded projects are correct? They seem like some information is missing.

Response: Information on the Control Sheets (G-009 thru G-016) did not properly compress. Remove and replace sheets G-009 thru G-016 with the attached revised sheets.

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| CHANGES TO THE SPECIFICATIONS |
|--------------------------------------|

1. Table of Contents

- a. Remove Paragraph 3 SAWS Specifications and Replace with the following:

“SAWS SPECIFICATIONS FOR WATER & SANITARY SEWER CONSTRUCTION (Latest Edition)
https://apps.saws.org/business_center/specs/constspecs/constspecs_2020/index.cfm”

2. Building Wage Decision

- a. Remove the 08/28/2020 Building Wage Decision in its entirety and Replace with the attached 09/11/2020 Building Wage Decision.

3. Special Provisions to Technical Specifications

- a. Add Special Provision to Item 900 Pipe Bursting/Crushing Replacement Process after Section D:

“E. REVISIONS TO STANDARD SPECIFICATION ITEM NO. 900 (PIPE BURSTING/CRUSHING REPLACEMENT PROCESS)

900.4 MATERIALS

Add paragraph 3:

3. Lateral reconnections on pipe burst lines shall be made using an Inserta Tee connection including a SDR 26 PVC hub, rubber sleeve, and stainless steel band for connecting new service to the new HDPE pipe.

900.5 CONSTRUCTION

Delete paragraph 19 and Replace with the following:

19. Sewer services, service laterals shall be reconnected to the new pipe through small excavations from the surface. Inserta-Tee conforming to ASTM D3034 service connections, approved by Engineer and found in SAWS' Material Specifications shall be used for service laterals. Sewage flows from the upstream line and from the services are pumped as required to prevent overflows and provide continual sewer service. All excavations required for reconnecting and pumping service flows, entry pits, exit pits, obstruction removal, point repairs, among others, are to be kept to a minimum and all damage to surface and underground features, facilities, utilities and improvements are to be repaired. Area disturbed by construction shall be clean and restored per SAWS specification Item No. 804. Seal between new pipe and existing service shall be water tight.

All other language in specification 900 shall remain in full force.”

- b. Add Special Provision to Item 1109 Sanitary Sewer Lateral Stub Outs or Reconnections as Section H:

“H. REVISIONS TO STANDARD SPECIFICATION ITEM NO. 1109 (SANITARY SEWER LATERAL STUB OUTS OR RECONNECTIONS)

1109.4 CONSTRUCTION

Delete paragraph 3 and Replace with the following:

3. Reconnection by Excavation Method:
 - a. Remove a portion of existing sanitary sewer main or carrier pipe to expose the liner pipe.
 - b. Provide sufficient working space for installing a prefabricated Inserta-Tee connection.
 - c. Carefully cut the liner pipe, making a hole to accept the Inserta-Tee connection.
 - d. Install the Inserta-Tee connection in accordance with the manufacturer’s recommended installation guidelines.
 - e. Remove and replace cracked, offset, or leaking service line for up to 5 feet, measured horizontally, from the center of the new main or liner.
 - f. Make up the connection between new main or liner and lateral using PVC sewer pipe, with approved fittings and couplings.
 - g. Encase the entire lateral connection in cement stabilized sand as shown in the contract documents.
 - h. Test each lateral connection before backfilling.

All other language in specification 1109 shall remain in full force.”

CHANGES TO THE PLANS

1. **Sheet G-004**
 - a. Replace sheet G-004 with attached.

2. **Sheet G-005**
 - a. Replace sheet G-005 with attached.

3. **Sheet G-006**
 - a. Replace sheet G-006 with attached.

4. **Sheet G-007**
 - a. Add Sewer Section Note 2.A.

"A. BYPASS LINES SHALL NOT IMPEDE POSITIVE DRAINAGE TO AND CAPTURE BY EXISTING STORM WATER FACILITIES. BYPASS SHALL NOT BE ROUTED THROUGH STORM CULVERTS WHERE THE BYPASS PIPE DIAMETER WILL ENCUMBER A SUBSTANTIAL PORTIONOF THE STORM CULVERT CAPACITY."
 - b. Delete Stormwater Note #8 and replace with the following:

"8. THE FOLLOWING SITES ARE FULLY OR PARTIALLY LOCATED IN THE FEMA 100-YEAR FLOODPLAIN: SITE 301, 317, 319, 323-1, & 323-2. CONTRACTOR SHALL REFER TO THE LOCATION MAPS FOR 100-YEAR FLOODPLAIN BOUNDARY."

5. **Sheet G-009**
 - a. Replace sheet G-009 with attached.

6. **Sheet G-010**
 - a. Replace sheet G-010 with attached.

7. **Sheet G-011**
 - a. Replace sheet G-011 with attached.

8. **Sheet G-012**
 - a. Replace sheet G-012 with attached.

9. **Sheet G-013**
 - a. Replace sheet G-013 with attached.

10. **Sheet G-014**
 - a. Replace sheet G-014 with attached.

11. **Sheet G-015**
 - a. Replace sheet G-015 with attached.

12. **Sheet G-016**
 - a. Replace sheet G-016 with attached.

13. **Sheet C-205**
 - a. Update North Dr (Alley) PCI from "N/A" to "86-100"

14. **Sheet C-301**
 - a. Add Note 5: "CONTRACTOR SHALL BACKFILL AND REGRADE THE TRENCH AND AREAS DISTURBED BY CONSTRUCTION TO MAINTAIN POSITIVE DRAINAGE TO THE EXISTING CONCRETE DRAINAGE FLUME."

15. Sheet C-319

- a. Add Note 4: "CONTRACTOR SHALL LOCATE SERVICE AND LIMITS OF STORM DRAIN AND PROTECT THE EXISTING STORM DRAIN AS NECESSARY."

END OF ADDENDUM

This Addendum, including these four (4) pages, is twenty-two (22) pages with attachments in its entirety.

Attachments:

Building Wage Decision Rates (7 pages)

Revised Sheets: G-004 to G-006

Revised Sheets: G-009 to G-016



Maridel Reyes Jimenez - 10-8-2020

Maridel Jimenez, PE
Plummer (TBPE No. F-13)

"General Decision Number: TX20200231 09/11/2020

Superseded General Decision Number: TX20190231

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 01/03/2020 |
| 1 | 02/14/2020 |
| 2 | 08/28/2020 |
| 3 | 09/11/2020 |

ASBE0087-014 01/01/2018

| | Rates | Fringes |
|---|----------|---------|
| ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)..... | \$ 22.72 | 10.02 |

BOIL0074-003 01/01/2017

| | Rates | Fringes |
|------------------|----------|---------|
| BOILERMAKER..... | \$ 28.00 | 22.35 |

ELEC0060-003 06/01/2019

| Rates | Fringes |
|-------|---------|
|-------|---------|

ELECTRICIAN (Communication
Technician Only).....\$ 22.55 9%+5.45

ELEC0060-004 06/01/2019

Rates Fringes

ELECTRICIAN (Excludes Low
Voltage Wiring).....\$ 28.60 18%+5.45

ELEV0081-001 01/01/2020

Rates Fringes

ELEVATOR MECHANIC.....\$ 41.90 34.765

FOOTNOTES:

A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

B. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

ENGI0450-002 04/01/2014

Rates Fringes

POWER EQUIPMENT OPERATOR
Cranes.....\$ 34.85 9.85

* IRON0066-013 06/01/2020

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 23.45 6.83

* IRON0084-011 06/01/2020

Rates Fringes

IRONWORKER, ORNAMENTAL.....\$ 25.26 7.13

PLUM0142-009 08/07/2019

Rates Fringes

HVAC MECHANIC (HVAC
Electrical Temperature
Control Installation Only).....\$ 30.25 13.36

HVAC MECHANIC (HVAC Unit
Installation Only).....\$ 30.25 13.36

PIPEFITTER (Including HVAC
Pipe Installation).....\$ 31.05 13.76

Including HVAC Pipe Installation

PLUMBER (Excludes HVAC Pipe
Installation).....\$ 31.05 13.76

Excludes HVAC Pipe Installation

SFTX0669-002 04/01/2020

| | Rates | Fringes |
|---|----------|---------|
| SPRINKLER FITTER (Fire Sprinklers)..... | \$ 30.64 | 21.68 |

SHEE0067-004 07/01/2020

| | Rates | Fringes |
|---|----------|---------|
| Sheet metal worker Excludes HVAC Duct Installation..... | \$ 27.31 | 15.51 |
| HVAC Duct Installation Only. | \$ 27.31 | 15.51 |

SUTX2014-006 07/21/2014

| | Rates | Fringes |
|---|----------|---------|
| BRICKLAYER..... | \$ 22.15 | 0.00 |
| CARPENTER (Acoustical Ceiling Installation Only)..... | \$ 17.83 | 0.00 |
| CARPENTER (Form Work Only)..... | \$ 13.63 | 0.00 |
| CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation..... | \$ 16.86 | 4.17 |
| CAULKER..... | \$ 15.00 | 0.00 |
| CEMENT MASON/CONCRETE FINISHER... | \$ 22.27 | 5.30 |
| DRYWALL FINISHER/TAPER..... | \$ 13.81 | 0.00 |
| DRYWALL HANGER AND METAL STUD INSTALLER..... | \$ 15.18 | 0.00 |
| ELECTRICIAN (Low Voltage Wiring Only)..... | \$ 20.39 | 3.04 |
| IRONWORKER, REINFORCING..... | \$ 12.27 | 0.00 |
| LABORER: Common or General..... | \$ 10.75 | 0.00 |
| LABORER: Mason Tender - Brick... | \$ 11.88 | 0.00 |
| LABORER: Mason Tender - Cement/Concrete..... | \$ 12.00 | 0.00 |
| LABORER: Pipelayer..... | \$ 11.00 | 0.00 |
| LABORER: Roof Tearoff..... | \$ 11.28 | 0.00 |
| LABORER: Landscape and Irrigation..... | \$ 8.00 | 0.00 |
| OPERATOR: Backhoe/Excavator/Trackhoe..... | \$ 15.98 | 0.00 |
| OPERATOR: Bobcat/Skid | | |

| | | |
|---|----------|------|
| Steer/Skid Loader..... | \$ 14.00 | 0.00 |
| OPERATOR: Bulldozer..... | \$ 14.00 | 0.00 |
| OPERATOR: Drill..... | \$ 14.50 | 0.00 |
| OPERATOR: Forklift..... | \$ 12.50 | 0.00 |
| OPERATOR: Grader/Blade..... | \$ 23.00 | 5.07 |
| OPERATOR: Loader..... | \$ 12.79 | 0.00 |
| OPERATOR: Mechanic..... | \$ 18.75 | 5.12 |
| OPERATOR: Paver (Asphalt, Aggregate, and Concrete)..... | \$ 16.03 | 0.00 |
| OPERATOR: Roller..... | \$ 12.00 | 0.00 |
| PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping..... | \$ 13.07 | 0.00 |
| ROOFER..... | \$ 12.00 | 0.00 |
| TILE FINISHER..... | \$ 11.32 | 0.00 |
| TILE SETTER..... | \$ 14.94 | 0.00 |
| TRUCK DRIVER: Dump Truck..... | \$ 12.39 | 1.18 |
| TRUCK DRIVER: Flatbed Truck..... | \$ 19.65 | 8.57 |
| TRUCK DRIVER: Semi-Trailer Truck..... | \$ 12.50 | 0.00 |
| TRUCK DRIVER: Water Truck..... | \$ 12.00 | 4.11 |

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010

08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

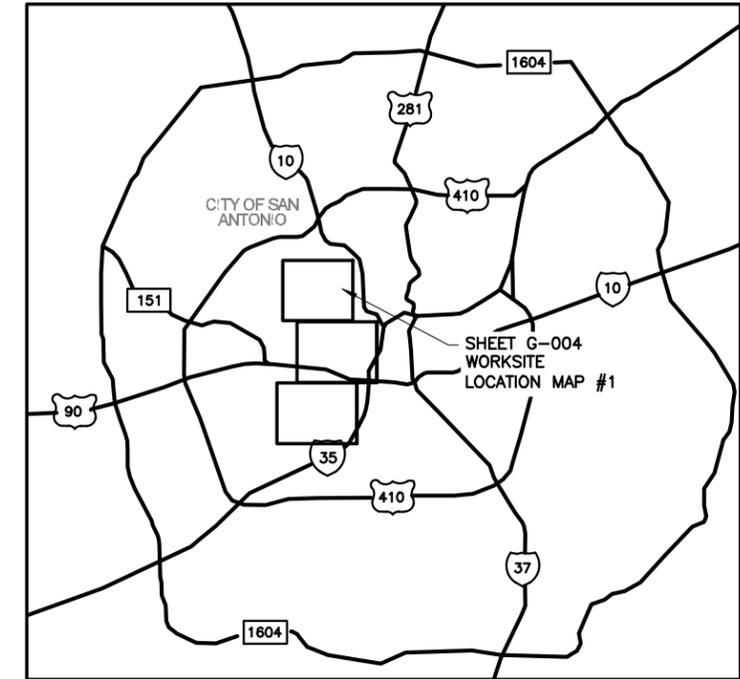
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"



LOCATION MAP
NOT TO SCALE

| NO. | DATE | REVISION | BY |
|-----|-------|--------------------|-----|
| 1 | 10/20 | PER ADDENDUM NO. 1 | MRJ |

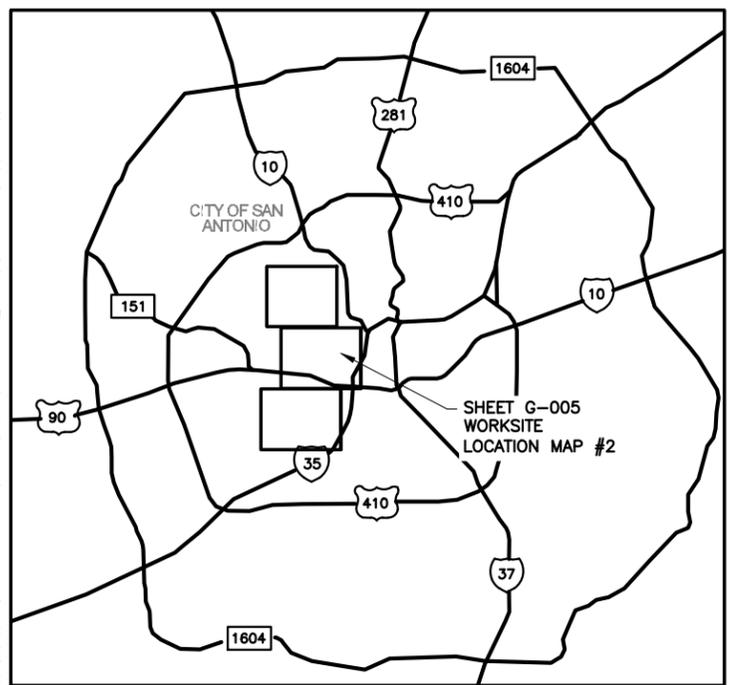
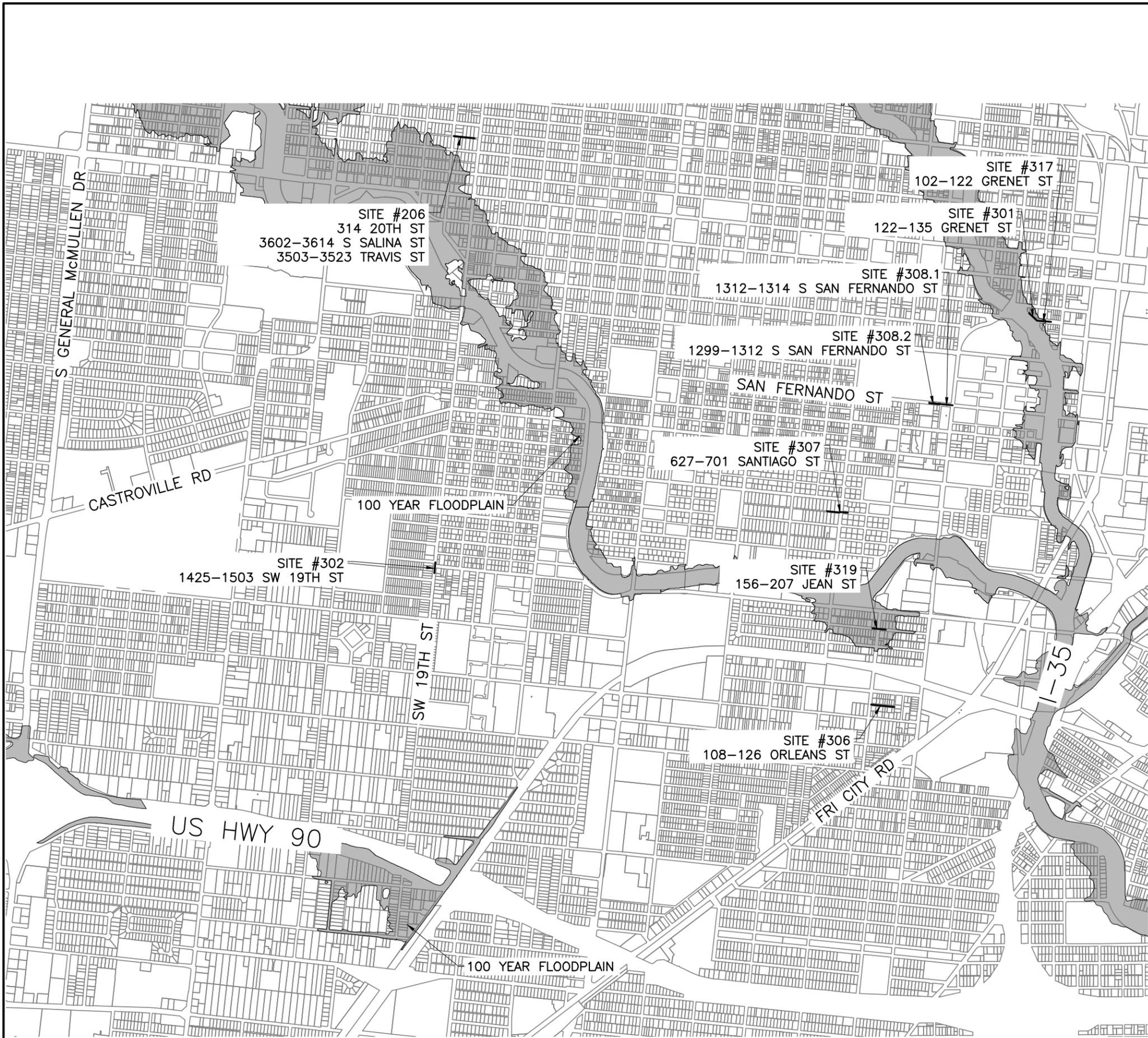


CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539
GENERAL
WORKSITE LOCATION MAP # 1



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ONE HALF INCH
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DRAWN PLUMMER
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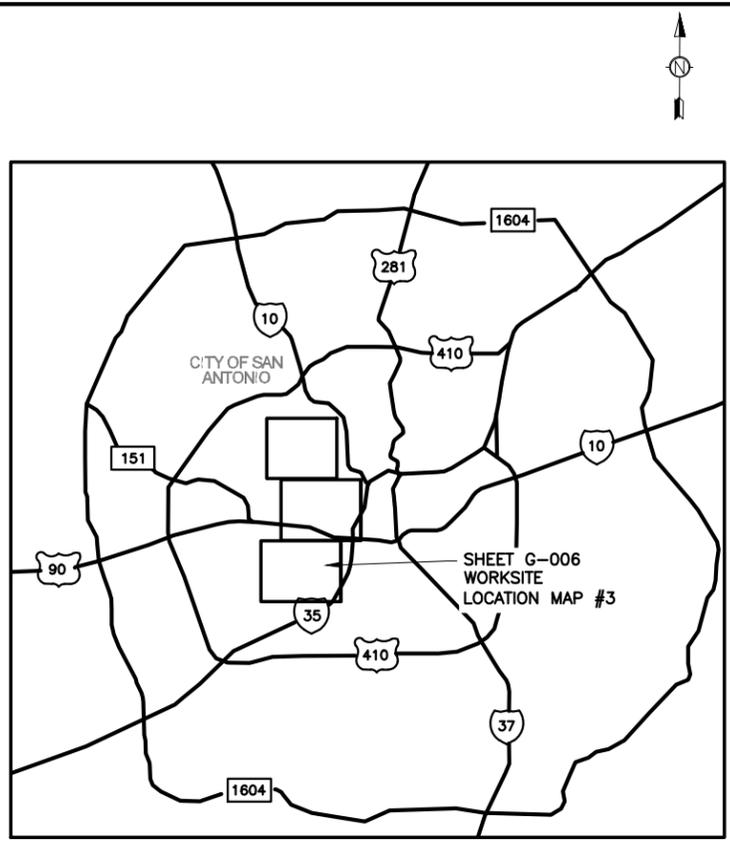
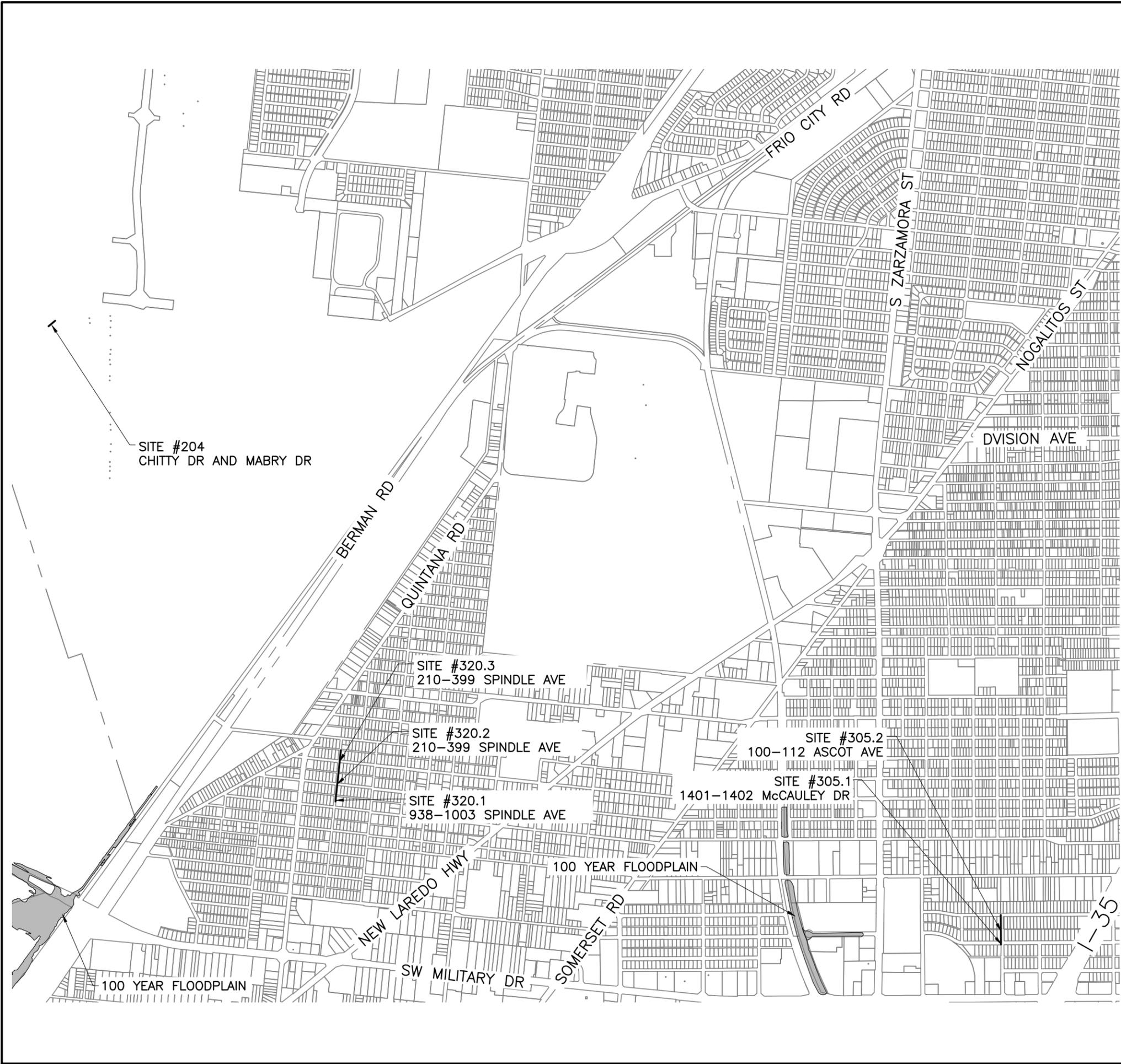


CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539
GENERAL
WORKSITE LOCATION MAP #2



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LOCATION MAP
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| NO. | DATE | REVISION | BY |
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| 1 | 10/20/20 | PER ADDENDUM NO. 1 | MRJ |

San Antonio Water System

CENTRAL SMALL DIAMETER PACKAGE 4B
 OPEN CUT REPLACEMENT AND PIPE BURSTING
 SAWS JOB NO 19-4539
 GENERAL
 WORKSITE LOCATION MAP #3



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LEGEND

⊗ TPT = 1/2 IRON ROD WITH RED PLASTIC CAP STAMPED "B.M.B. INC. CONTROL PT"

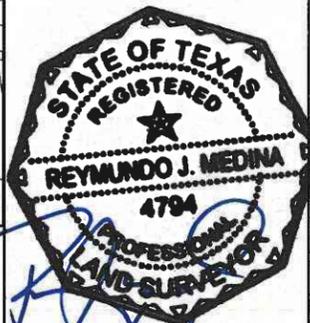


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CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539

| | |
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| DESIGNED | PG |
| CHECKED | |
| REVIEWED | |
| Seq. | 9 of 123 |
| Dwg. No. | G-009 |



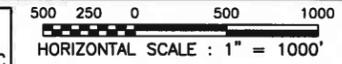
NOTE
METADATA USED PROVIDED BY PLUMMER.
COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.

PLUMMER
12500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
210.310.0888 | TDP REGISTERED FIRM NUMBER F-13

REVISION BY
BARRY MEDINA BAIJN, INC.
ENGINEERS & SURVEYORS
1100 W. BRUNNEN ST. SUITE 200
SAN ANTONIO, TEXAS 78216
210/464-7223
TDP# Registration No. F-1712

LEGEND

TPT = 1/2 IRON ROD WITH RED PLASTIC CAP STAMPED "B.M.B. INC. CONTROL PT"



PLUMMER

12500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
210.510.0888 | TBPE REGISTERED FIRM NUMBER F-13

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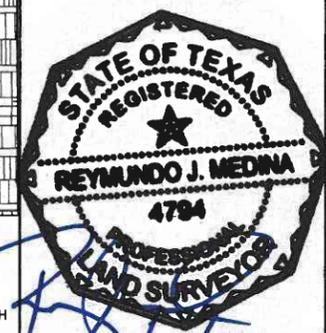
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
7070 San Pedro Avenue
Suite 401 San Antonio, Texas 78216
Tel: 210.494.7225
TXPE Registration No. F-1718



CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539

CONTROL SHEET 3

| | |
|----------|-------------|
| DESIGNED | PG |
| CHECKED | |
| REVIEWED | |
| Seq. | 11 of 123 |
| Dwg. No. | G-011 |
| | 0535-015-01 |



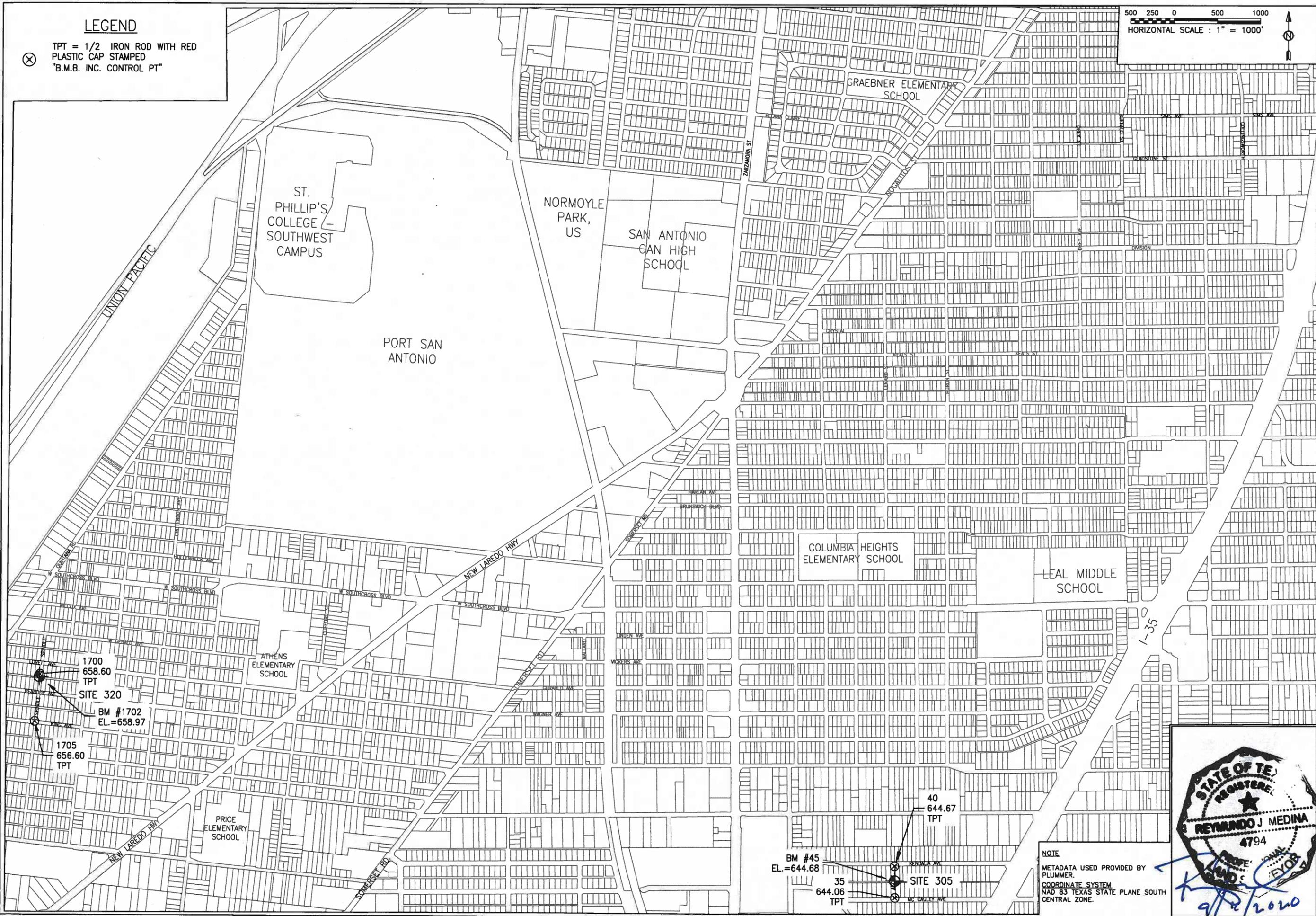
NOTE
METADATA USED PROVIDED BY PLUMMER.
COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.

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LEGEND

⊗ TPT = 1/2 IRON ROD WITH RED PLASTIC CAP STAMPED "B.M.B. INC. CONTROL PT"

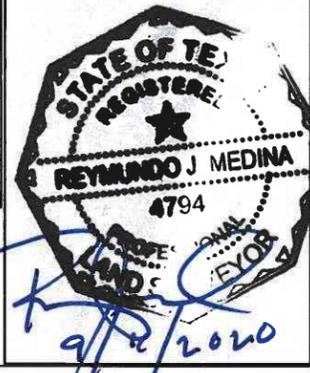
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BM #45
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644.06
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644.67
TPT
SITE 305
MC CAULEY AVE

NOTE
METADATA USED PROVIDED BY PLUMMER.
COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.



PLUMMER

12500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
210.510.0888 | TBPB REGISTERED FIRM NUMBER F-13

BY _____

REVISION _____

NO. DATE _____

San Antonio water system

SAWS

REY MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
2770 San Pedro Avenue
San Antonio, Texas 78216
210/494-7223
TBPB Registration No. F-1718

CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539

CONTROL SHEET 4

PRINTED: 9/11/2020 12:59 PM W:\Work\C-1519 2019 S5ORP BPC Central Small Diameter Pkg. 4 PS-00074-SM\Survey\Draw_S-1519 PKG 4B CONTROL SHEETS-2020-09-11.dwg SAWS: 9/4/2020 2:04 PM SAWS: 9/4/2020 2:04 PM USER: Paul Guzman

BAR IS ONE HALF INCH ON ORIGINAL DRAWING.
ONE HALF INCH

DESIGNED _____

DRAWN PG _____

CHECKED _____

REVIEWED _____

Seq. 12 of 123

Dwg. No. G-012

0535-015-01

LEGEND

⊗ TPT = 1/2 IRON ROD WITH RED PLASTIC CAP STAMPED "B.M.B. INC. CONTROL PT"

500 250 0 500 1000
HORIZONTAL SCALE : 1" = 1000'



| | | | |
|-----|------|----------|----|
| NO. | DATE | REVISION | BY |
| | | | |



CENTRAL SMALL DIAMETER PACKAGE 4B
OPEN CUT REPLACEMENT AND PIPE BURSTING
SAWS JOB NO 19-4539

| | |
|----------|-----------|
| DESIGNED | PG |
| CHECKED | |
| REVIEWED | |
| Seq. | 13 of 123 |
| Dwg. No. | G-013 |

PLUMMER
12500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
210.510.0888 | TBP REGISTERED FIRM NUMBER F-13
REVISION BY
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
210/484-7223
210/484-7223
TBP Registration No. F-1718
USER: Paul Gutman
SAVED BY: PGuzman
9/4/2020 2:04 PM
SWED: 9/4/2020 2:04 PM
CONTROL SHEETS: 2020-09-11.dwg
PKG 4B CONTROL SHEETS-2020-09-11.dwg
S-1519 PKG 4B CONTROL SHEETS-2020-09-11.dwg
PRINTED: 9/11/2020 12:57 PM W:\Work\C-1519 2019 SSORP BPC Central Small Diameter Pkg. 4 PS-00074-SM\Survey\Dwg\S-1519 PKG 4B CONTROL SHEETS-2020-09-11.dwg
0535-015-01

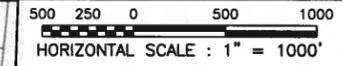
NOTE
METADATA USED PROVIDED BY PLUMMER.
COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.



9/14/2020

LEGEND

TPT = 1/2 IRON ROD WITH RED PLASTIC CAP STAMPED "B.M.B. INC. CONTROL PT"



LACKLAND AFB

1712 681.30 CNP
 BUCKNER DR.
 SITE 204-3
 1711 680.92 CNP
 BILLY MITCHEL BLVD

W MILITARY DR.

OLD PEARSON RD

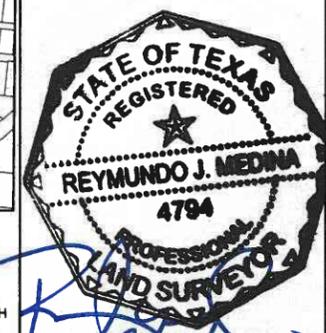
UNION PACIFIC

ST. PHILLIP COLLEGE SOUTHWEST CAMPUS

ATHENS ELEMENTARY SCHOOL

1700 658.60 TPT
 BM #1702 EL.=658.97
 1705 656.60 TPT
 SITE 320

NOTE
 METADATA USED PROVIDED BY PLUMMER.
 COORDINATE SYSTEM
 NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.



| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

san Antonio water system

CENTRAL SMALL DIAMETER PACKAGE 4B
 OPEN CUT REPLACEMENT AND PIPE BURSTING
 SAWS JOB NO 19-4539

CONTROL SHEET 6

DESIGNED _____
 DRAWN PG _____
 CHECKED _____
 REVIEWED _____

Seq. 14 of 123
 Dwg. No. G-014

PLUMMER

12500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
 210.510.0888 | TBP REGISTERED FIRM NUMBER F-13

REVISION BY
 BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 3770 San Pedro Avenue
 Suite 401
 San Antonio, Texas 78216
 TBP Registration No. F-1718
 USER: Paul Guzman

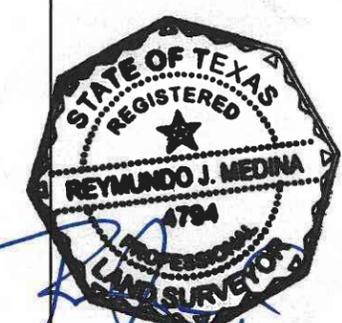
SAVED: 9/4/2020 2:04 PM

CONTROL SHEETS: 2020-09-11.dwg

PRINTED: 9/11/2020 12:55 PM

9/11/2020

| CONTROL POINTS | | | | |
|----------------|---------------|--------------|-----------|------------------------------|
| POINT NO. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 1 | 13705872.4087 | 2105687.4250 | 705.32 | TPT 1/2 IR W/BMB CONTROL CAP |
| 2 | 13706057.2887 | 2105706.9352 | 705.03 | TPT 1/2 IR W/BMB CONTROL CAP |
| 20 | 13698445.3776 | 2115548.0753 | 670.37 | TPT 1/2 IR W/BMB CONTROL CAP |
| 25 | 13698616.6116 | 2115628.1182 | 670.55 | TPT 1/2 IR W/BMB CONTROL CAP |
| 35 | 13678358.9540 | 2118757.2603 | 644.06 | TPT 1/2 IR W/BMB CONTROL CAP |
| 40 | 13678725.3686 | 2118754.6298 | 644.67 | TPT 1/2 IR W/BMB CONTROL CAP |
| 80 | 13699137.1457 | 2121506.1897 | 652.03 | TPT X ON CONCRETE |
| 85 | 13699345.7496 | 2121529.1400 | 653.30 | TPT X ON CONCRETE |
| 95 | 13704330.2854 | 2115848.3949 | 681.53 | TPT 1/2 IR W/BMB CONTROL CAP |
| 100 | 13704692.9376 | 2115841.3498 | 668.11 | TPT 1/2 IR W/BMB CONTROL CAP |
| 150 | 13696332.9100 | 2122451.8100 | 640.83 | TPT 1/2 IR W/BMB CONTROL CAP |
| 155 | 13696386.7900 | 2121938.5300 | 643.50 | TPT 1/2 IR W/BMB CONTROL CAP |
| 165 | 13712133.2718 | 2118970.9189 | 685.76 | TPT 1/2 IR W/BMB CONTROL CAP |
| 170 | 13712107.1634 | 2119243.4300 | 691.18 | TPT 1/2 IR W/BMB CONTROL CAP |
| 180 | 13718056.1825 | 2116305.0521 | 728.66 | TPT 1/2 IR W/BMB CONTROL CAP |
| 185 | 13718110.5029 | 2115832.3351 | 725.75 | TPT 1/2 IR W/BMB CONTROL CAP |
| 300 | 13706957.6600 | 2116108.5000 | 721.67 | TPT 1/2 IR W/BMB CONTROL CAP |
| 301 | 13706853.2600 | 2116057.3800 | 639.08 | TPT 1/2 IR W/BMB CONTROL CAP |
| 303 | 13706834.2400 | 2116496.6300 | 630.21 | TPT 1/2 IR W/BMB CONTROL CAP |
| 305 | 13706969.3500 | 2115658.5400 | 719.50 | TPT 1/2 IR W/BMB CONTROL CAP |
| 360 | 13709661.7000 | 2109982.3000 | 694.40 | TPT 1/2 IR W/BMB CONTROL CAP |
| 365 | 13709949.6700 | 2110055.4100 | 697.55 | TPT 1/2 IR W/BMB CONTROL CAP |
| 545 | 13711027.7000 | 2118679.0500 | 672.75 | TPT 1/2 IR W/BMB CONTROL CAP |
| 550 | 13710935.9300 | 2119114.6600 | 680.79 | TPT 1/2 IR W/BMB CONTROL CAP |
| 560 | 13702016.0000 | 2124410.9500 | 641.74 | TPT 1/2 IR W/BMB CONTROL CAP |
| 565 | 13701942.5400 | 2124786.8900 | 645.54 | TPT 1/2 IR W/BMB CONTROL CAP |
| 585 | 13708433.4200 | 2114111.4800 | 704.87 | TPT 1/2 IR W/BMB CONTROL CAP |
| 590 | 13708279.5200 | 2114096.0200 | 702.50 | TPT 1/2 IR W/BMB CONTROL CAP |
| 830 | 13697484.0000 | 2121943.1200 | 633.57 | TPT 1/2 IR W/BMB CONTROL CAP |
| 835 | 13697448.7600 | 2122215.1700 | 633.32 | TPT 1/2 IR W/BMB CONTROL CAP |
| 1530 | 13710087.7100 | 2109751.0100 | 700.69 | TPT 1/2 IR W/BMB CONTROL CAP |
| 1700 | 13680908.5500 | 2108853.2900 | 658.60 | TPT 1/2 IR W/BMB CONTROL CAP |
| 1705 | 13680365.9600 | 2108794.8500 | 656.60 | TPT 1/2 IR W/BMB CONTROL CAP |
| 1711 | 13687480.0200 | 2104699.0300 | 680.92 | TPT 1/2 IR W/BMB CONTROL CAP |
| 1712 | 13687703.8288 | 2104698.2601 | 681.30 | TPT 1/2 IR W/BMB CONTROL CAP |
| 15000 | 13706437.3100 | 2105888.4900 | 703.38 | TPT X ON CONCRETE |
| 15002 | 13705847.4000 | 2105817.8800 | 705.38 | TPT 1/2 IR W/BMB CONTROL CAP |



NOTE
 METADATA USED PROVIDED BY PLUMMER.
 COORDINATE SYSTEM
 NAD 83 TEXAS STATE PLANE SOUTH CENTRAL ZONE.



PLUMMER

13500 SAN PEDRO AVE STE 401 | SAN ANTONIO, TX 78216
 210.510.0888 | TPE REGISTERED FIRM NUMBER F-13

NO. | DATE | REVISION | BY

REVISION

BY

BALY MEDINA BALY, INC.
 PROFESSIONAL ENGINEERS & SURVEYORS
 210/484-7223
 210/484-7223
 TPE Registration No. P-1712



CENTRAL SMALL DIAMETER PACKAGE 4B
 OPEN CUT REPLACEMENT AND PIPE BURSTING
 SAWS JOB NO 19-4539

CONTROL SHEET 7

BAR IS ONE HALF INCH ON ORIGINAL DRAWING.

ONE HALF INCH

DESIGNED _____
 DRAWN PG _____
 CHECKED _____
 REVIEWED _____

Seq. 15 of 123

Dwg. No. G-015

0535-015-01

PRINTED: 9/11/2020 12:50 PM W:\Work\G-1519 2019 SSORP BPC Central Small Diameter Pkg. 4 PS-00074-SM\Survey\Dwg\5-1519 PKG 4B CONTROL SHEETS_2020-09-11.dwg SAVED: 9/11/2020 2:04 PM SAVER: Paul Guzman USER: Paul Guzman

| BENCHMARKS | | | | |
|------------|---------------|--------------|-----------|-----------------------------|
| POINT NO. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 30 | 13698482.0452 | 2115519.4232 | 670.48 | BM CHISELED SQUARE |
| 45 | 13678553.4027 | 2118754.2406 | 644.68 | BM CHISELED SQUARE |
| 90 | 13699222.0465 | 2121562.6834 | 652.32 | BM CHISELED SQUARE |
| 105 | 13704502.2994 | 2115870.1775 | 664.60 | BM CHISELED SQUARE |
| 160 | 13696358.1600 | 2121979.6600 | 643.55 | BM CHISELED SQUARE |
| 175 | 13712112.8583 | 2119173.4901 | 691.41 | BM CHISELED SQUARE |
| 310 | 13706909.8600 | 2116098.5700 | 721.68 | BM 1/2 IR W/BMB CONTROL CAP |
| 370 | 13709652.2200 | 2109991.6200 | 694.93 | BM CHISELED SQUARE |
| 540 | 13711034.7400 | 2118615.4100 | 671.77 | BM CHISELED SQUARE |
| 555 | 13702023.3300 | 2124363.7800 | 641.72 | BM CHISELED SQUARE |
| 595 | 13708352.1900 | 2114140.9800 | 703.84 | BM CHISELED SQUARE |
| 713 | 13687655.9100 | 2104684.2500 | 681.85 | BM CHISELED SQUARE |
| 831 | 13697479.2400 | 2121977.3900 | 633.26 | BM CHISELED SQUARE |
| 1535 | 13710130.1700 | 2109792.1300 | 701.29 | BM CHISELED SQUARE |
| 1702 | 13680878.6700 | 2108848.9000 | 658.97 | BM CHISELED SQUARE |

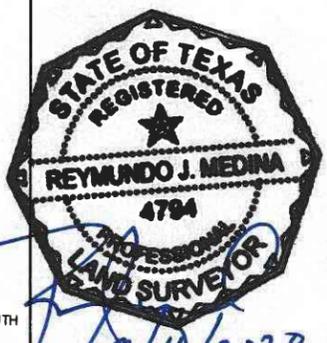


| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |



CENTRAL SMALL DIAMETER PACKAGE 4B
 OPEN CUT REPLACEMENT AND PIPE BURSTING
 SAWS JOB NO 19-4539

CONTROL SHEET 8



NOTE
 METADATA USED PROVIDED BY PLUMMER.
 COORDINATE SYSTEM
 NAD 83 TEXAS STATE PLANE SOUTH
 CENTRAL ZONE.

BAR IS ONE HALF INCH ON ORIGINAL DRAWING.
 ONE HALF INCH

| | |
|----------|-------------|
| DESIGNED | _____ |
| DRAWN | PG _____ |
| CHECKED | _____ |
| REVIEWED | _____ |
| Seq. | 16 of 123 |
| Dwg. No. | G-016 |
| | 0535-015-01 |