



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

**ADDENDUM No. 6
August 9, 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. If Respondent is a Joint Venture, page SIR-11, included as part of this Addendum, is to be used as a replacement for page SIR-11 provided in Addendum 1. This page is being provided so Respondents who are Joint Ventures have a space to provide their Business Structure. Only one of these pages from the SIR will need to be completed for Joint Ventures.

QUESTIONS AND ANSWERS

1. See Addendum No. 6 – Attachment A, Questions and Answers, included with this addendum, which includes responses to additional questions received after Addendum No. 4.

REVISIONS TO CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

RESPONDENT'S PROPOSAL CHECKLIST

- a) Please insert the Required Documents Matrix attached to this Addendum after the Respondent Proposal Checklist.

SUPPLEMENTARY INSTRUCTIONS TO RESPONDENTS

- a) Page SIR-10, revise and replace Section D. FORMAT OF PROPOSALS, Item 2. as follows:

“Proposals shall be a MAXIMUM OF **FIFTY (50)** PRINTED PAGES. Refer to the Required Documents Matrix for what does/does not count toward the page limit.”

b) Replace Page SIR-11 as included herein.

SECTION 15055 – STEEL PIPE, MORTAR LINED

a) Section 2.01 GENERAL, add subparagraph D. to read as,

D. Where the Drawings call for no coating, the mortar-lined steel pipe shall be supplied with a shop primer.

REVISIONS TO DRAWINGS

ALL SHEETS

a) The total sheet count on all sheets shall be revised from ‘110’ to ‘109’

SHEET G-3001 – DRAWING INDEX, LEGEND & ABBREVIATIONS

a) Revise the ‘TREE PRESERVATION’ section of the ‘SHEET INDEX’ which reads,

TREE PRESERVATION		
L-101	104	TREE PLAN
L-102	105	TREE PLAN
L-103	106	TREE PLAN
L-104	107	TREE PLAN
L-105	108	TREE DETAILS
L-106	109	TREE DETAILS
L-107	110	TREE DETAILS

To read,

TREE PRESERVATION		
L-101	104	TREE PRESERVATION PLANS
L-102	105	TREE PRESERVATION PLANS
L-103	106	TREE PRESERVATION PLANS
L-104	107	TREE PRESERVATION PLANS
L-105	108	DETAILS
L-106	109	DETAILS

SHEET G-3002 – GENERAL NOTES (SHEET 1 OF 2)

- a) Add note 16A to ‘SAWS GENERAL WATER NOTES’ which reads “All valves shall open to the right.”

SHEET C-3125 – 54” PIPELINE PLAN & PROFILE STA 195+00 TO 199+00

- a) Delete Sheet C-3125 in its entirety and replace with the revised version included in this Addendum.

SHEET C-3126 – 54” PIPELINE PLAN & PROFILE STA 199+00 TO 203+00

- a) Delete Sheet C-3126 in its entirety and replace with the revised version included in this Addendum.

SHEET C-3130 – SITE IMPROVEMENT PLAN AT VOIGT

- a) Delete Sheet C-3130 in its entirety and replace with the revised version included in this Addendum.

SHEET C-3140 – SITE IMPROVEMENT PLAN AT CORNERSTONE

- a) Delete Sheet C-3140 in its entirety and replace with the revised version included in this Addendum.

SHEET L-101 – TREE PLAN

- a) Delete Sheet L-101 in its entirety and replace with the revised version included in this Addendum titled “TREE PRESERVATION PLANS”

SHEET L-102 – TREE PLAN

- a) Delete Sheet L-102 in its entirety and replace with the revised version included in this Addendum titled “TREE PRESERVATION PLANS”

SHEET L-103 – TREE PLAN

- a) Delete Sheet L-103 in its entirety and replace with the revised version included in this Addendum titled “TREE PRESERVATION PLANS”

SHEET L-104 – TREE PLAN

- a) Delete Sheet L-104 in its entirety and replace with the revised version included in this Addendum titled “TREE PRESERVATION PLANS”

SHEET L-105 – TREE DETAILS

- a) Delete Sheet L-105 in its entirety and replace with the revised version included in this Addendum titled “DETAILS”

SHEET L-106 – TREE DETAILS

- a) Delete Sheet L-106 in its entirety and replace with the revised version included in this Addendum titled “DETAILS”

SHEET L-107 – TREE DETAILS

- a) Delete Sheet L-107 in its entirety.

The remainder of the bid documents remain unchanged.

This addendum is comprised of a total of 17 pages (including attachments).



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



8/9/2018

END OF ADDENDUM No. 6

Attachment A

Project: Central Water Integration Pipeline Segment 5-1 Project			Solicitation No.: CO-00181
Question and Answer Form			Job No.: 18-8612
Question No.	Received	Question	Answer
1	8/7/2018	Detail 1 on Sheet C-3906 shows the primary liner to be 8' dia. while paragraph 1.06.A.1 in Specification Section 02300 requires a minimum diameter of 88" for the primary liner. Please clarify the minimum diameter for the primary lining or casing in Reaches 1 and 3.	The 8'-0" diameter dimension is the nominal diameter. Dimension callout to the left will be revised accordingly. This is reflected in the changes to SHEET C-3906 and SPECIFICATIONS SECTION 02300 per Addendum No. 4. It shall be noted that per Note 1 on detail 1 of sheet C-3906, the tunnel is shown conceptually and the final dimensions shall be determined by the Contractor.
2	8/7/2018	Regarding "C.4. 5. The SAWS Good Faith Effort Plan (GFEP) will be used for scoring purposes based upon SMWB participation. However, all subcontractors and/or suppliers, whether SMWVB-certified or not, must be listed in the GFEP, because the information provided in the GFEP will be utilized in the development of the final contract/agreement. The GFEP format is attached as Exhibit "B." This form is required and considered part of the response to the RFCSP. Should the Good Faith Effort Plan not be submitted, the proposal may be considered non-responsive." Please confirm that only one copy of the GFEP is required? E.g. The GFEP would be included with the one original proposal, but not with the 7 copies.	Yes, only one copy of the Good Faith Effort Plan is required and should be placed in the original proposal only.
3	8/7/2018	Regarding "D.6 Proposals shall be printed on letter-size 8-1/2" x 11" paper and assembled with spiral-type bindings or staples. DO NOT USE METAL-RING HARD COVER BINDERS." Would SAWS consider accepting proposals bound with a binder clip or similar binding?	No.
4	8/7/2018	Regarding "Form 1. Team Qualifications and Similar Prior Experience b. Prime Contractor Qualifications, Experience and Safety Record, Section iv. Safety Record (attach OSHA records) and (attach documentation from Texas Department of Insurance) Would SAWS consider excluding the safety records and documentation from the 50-page limit?	Yes. Safety records are required documents and will not count towards the 50 page limit. See Changes to the Specifications in Addendum No. 6.
5	8/7/2018	Regarding "D.9 Proposals shall include one copy on compact disc (CD) in portable document format (.pdf) in addition to the required number of hard copies. The CD shall contain the entire proposal package as submitted, excluding the financial statement and Price Proposal, and should be encased in a paper CD envelope, clearly marked with the RFCSP information." Would SAWS like the GFEP and Form 1. Team Qualifications and Similar Prior Experience c. Subcontractor Qualifications, Experience and Safety Record form included on the CD?	Yes, both the Good Faith Effort Plan and the Team Qualifications and Similar Prior Experience c. Subcontractor Qualifications, Experience and Safety Record form are to be included on the CD or USB.
6	8/8/2018	When filling out the team qualification form under organizational structure, if we are a JV do we: Fill one for the JV And one each for the partners?	If Respondent is a Joint Venture, page SIR-11, included as part of this Addendum, is to be used as a replacement for page SIR-11 provided in Addendum No. 1. This page is being provided so Respondent's who are Joint Ventures have a space to provide their Business Structure. Only one of these pages from the SIR will need to be completed for Joint Ventures.
80	8/3/2018	Please consider a provisional lump sum price for the utility relocations since most of the utility suppliers do not provide quote for bid purposes in a short time.	See Response to Question 79 in Addendum No. 4. Bid per Contract Documents.
81	8/6/2018	According to the attached from the pre-bid meeting today, it says that divider tabs and required forms do not count towards page limit EXCEPT for the forms provided as part of the SIR. The way I read that is that only the pages in the SIR forms count in the page count. Is that correct? Right now the required forms such as Proposal Checklist, Statement on Presidents Executive Orders, Conflict of Interest Questionnaire, W9, Proof of Insurance, Respondent Questionnaire TRIR and EMR Rates we are counting in our page count because of the way the supplementary instructions read. Page SIR-10 of the supplementary instructions to respondents, it says: "Proposals shall be a MAXIMUM OF FIFTY (50) PRINTED PAGES. The cover page, table of contents, divider sheets, financial statement(s), Good Faith Effort Plan, and Price Proposal will not count as printed pages. The required forms for Team Qualifications and Similar Prior Experience and will count as printed pages" Please clarify.	See Changes to the Specifications in Addendum No. 6

Required Documents Matrix

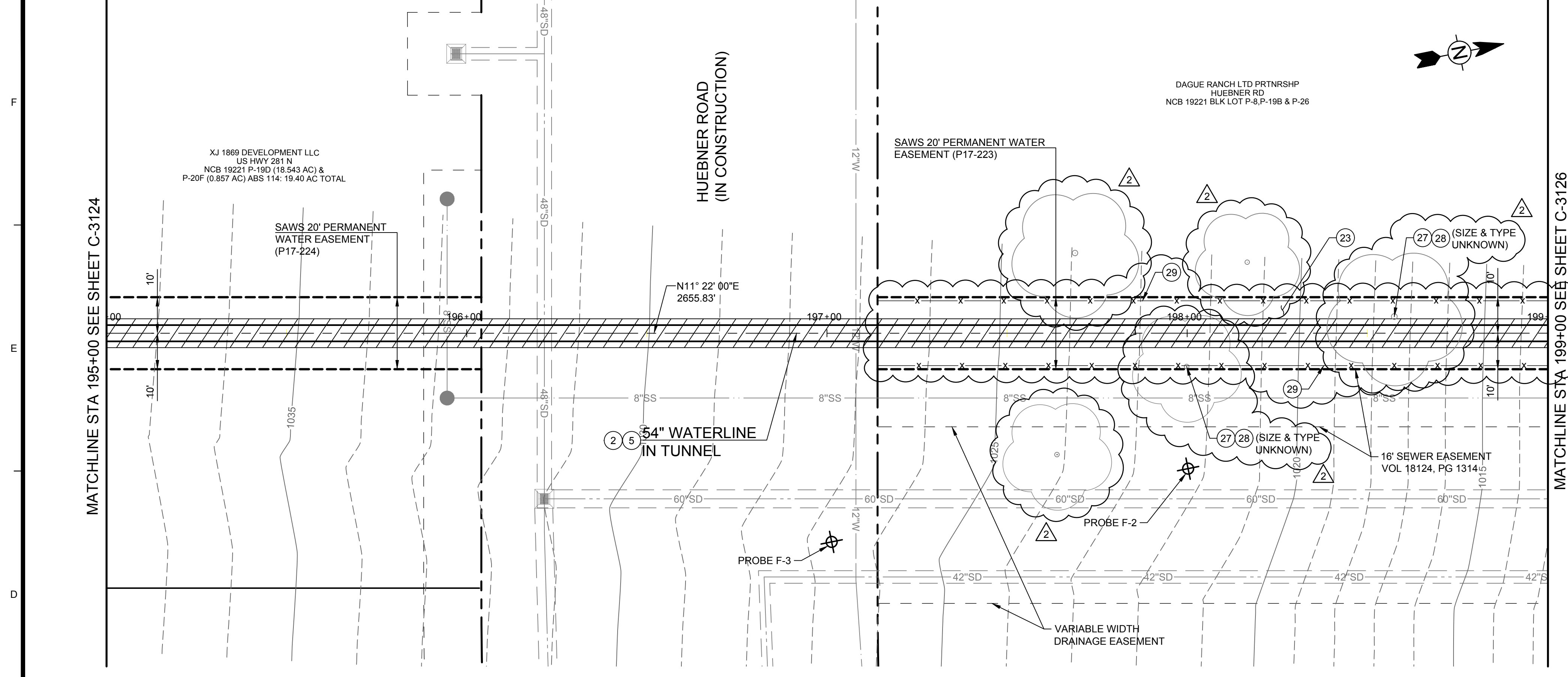
Documents	Required Document(s) <u>Does</u> Count Towards Page Limit	Required Document(s) <u>Does Not</u> Count Towards Page Limit	Include in Envelope 1	Include on CD or USB	Include in Envelope (or Box) 2 – Original Proposal	Include in Copies of Proposal - 7
Signed Price Proposal/Acknowledgement of Addendums ¹		X	X			
Signed Proposal Certification		X	X			
Bid Bond/Cashier's Check		X	X			
Proposal Checklist ¹		X		X	X	X
CD or USB of Original Proposal Packet (excluding the Price Proposal and Financial Statement)		X		X	X	
Statement on President's Executive Orders		X		X	X	
Good Faith Effort Plan		X		X	X	
Conflict of Interest Questionnaire		X		X	X	
W-9		X		X	X	
Proof of Insurability		X		X	X	
Respondent Questionnaire		X		X	X	X
Supplementary Instructions to Respondents Evaluation Criteria forms ¹	X			X	X	X
Organizational Chart	X			X	X	X
Financial Statement		X		X	X	
Resumes for Key Personnel, Key Subcontractors, and Alternates		X		X	X	X
Total Recordable Incident Rate Records		X		X	X	X
Experience Modification Rate Records		X		X	X	X
Other Safety Documents/Information		X		X	X	X
Narrative for Project Approach, Schedule, and Resource Availability, including summary of Quality Management Plan	X			X	X	X
Quality Management Plan		X		X	X	X
Project Schedule	X			X	X	X

1 Respondent shall check the SAWS website to verify the number of Addendums and ensure the correct version of the forms are being utilized prior to submitting their proposal.

1. Team Qualifications and Similar Prior Experience

a. Project Team Structure and Key Personnel

i. Current business organizational structure, type of business structure, and stability of organization			
Organization Doing Business As			
Business Address of Principle Office			
Main Office Telephone Number			
Web Site Address			
Business Address of Regional Office (if different from Principle Office)			
Regional Office Telephone Number			
Business Structure (Circle One)	A Corporation	A Partnership	A JV An Individual
If a Corporation			
Date of Incorporation			
State of Incorporation			
Chief Executive Officer's Name			
President's Name			
If a Partnership/JV			
Date of Organization			
State whether partnership is general or limited			
If an Individual			
Name			
Business Address			
Stability of Organization			
Average number of current full time employees:		Annual revenue for previous year:	
ii. Number of years performing contracting / construction work:			
Under current business name:		Under previous business name(s):	
iii. Provide a brief description of the managerial structure for this project and illustrate with an organizational chart. Include the title and names of proposed key personnel. Include the organizational chart as an attachment.			
See Attachment No. 			



CONSTRUCTION NOTES:

- ② CONSTRUCT 54" WSP, CML AND NO COATING. PER DTL 1 ON SHT C-3902. WELD ALL JOINTS PER DTL 2 ON SHT C-3902.
- ⑤ CONSTRUCT 96" TUNNEL PER DTL 1 ON SHT C-3906
- ②③ TOPSOIL & HYDROSEED ACCESS ROAD (W = 20')
- ②⑦ REPLACE TREE REMOVED DURING CONSTRUCTION (NSPI)
- ②⑧ REMOVE AND DISPOSE OF EXIST TREE (NSPI)
- ②⑨ INSTALL 4' TALL TEMPORARY ORANGE CONSTRUCTION FENCE WITH GREEN STEEL T-POSTS SPACED 8' OC (NSPI)

NOTES:

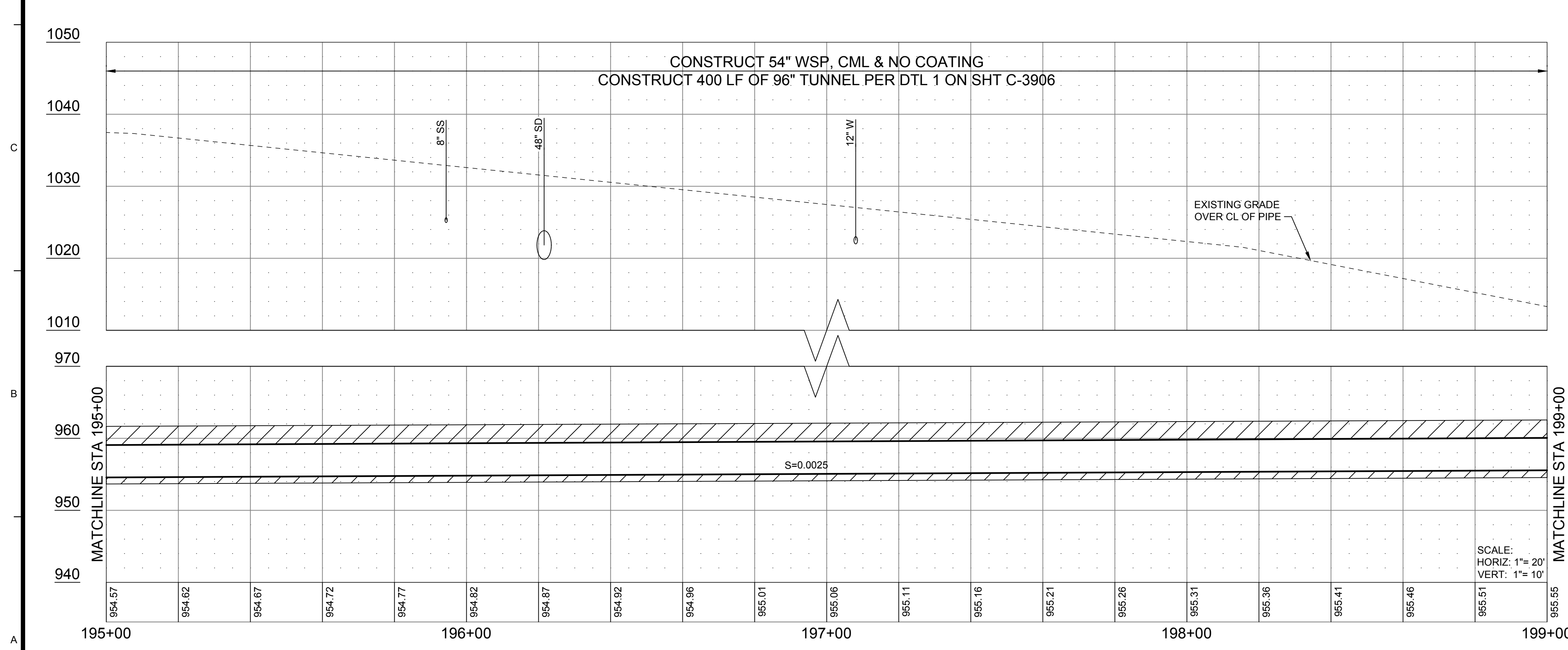
1. CONTRACTOR SHALL REFERENCE TREE PRESERVATION PLAN FOR RELATED DETAILS AND NOTES.

ESTIMATED QUANTITIES				
LINE NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
10	02300-F	FURNISH AND INSTALL REACH 1 TUNNEL PROBE DRILLING FROM SONTERRA SHAFT (STA 157+52) TO THE TERMINUS SHAFT (STA 204+30), IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPLETE IN PLACE.	LF	400
13	02300-A	FURNISH AND INSTALL REACH 1 TUNNEL EXCAVATION AND 96" (MIN) PRIMARY LINER FROM SONTERRA SHAFT (STA 157+52) TO THE TERMINUS SHAFT (STA 204+30), IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPLETE IN PLACE.	LF	400
16	02420-A	FURNISH AND INSTALL 54" WELDED STEEL PIPE IN REACH 1 FROM SONTERRA SHAFT (STA 157+40) TO THE TERMINUS SHAFT (STA 204+40), IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPLETE IN PLACE.	LF	400
34	COSA 515.1	FURNISH AND APPLY TOPSOIL (6-INCH DEPTH)	CY	69
35	02921	FURNISH AND APPLY HYDROSEED	SY	413

TETRA TECH
Texas Registration No. F-3924
www.tetra-tech.com
700 N. St. Mary's, Suite 300
San Antonio, TX 78205
Ph (210) 299-7900 Fax (210) 226-9487
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ADDENDUM

SAN ANTONIO WATER SYSTEM



CONSTRUCTION NOTES:

- ② CONSTRUCT 54" WSP, CML AND NO COATING. PER DTL 1 ON SHT C-3902. WELD ALL JOINTS PER DTL 2 ON SHT C-3902.
- ⑤ CONSTRUCT 96" TUNNEL PER DTL 1 ON SHT C-3906
- ②③ TOPSOIL & HYDROSEED ACCESS ROAD (W = 20')
- ②⑦ REPLACE TREE REMOVED DURING CONSTRUCTION (NSPI)
- ②⑧ REMOVE AND DISPOSE OF EXIST TREE (NSPI)
- ②⑨ INSTALL 4' TALL TEMPORARY ORANGE CONSTRUCTION FENCE WITH GREEN STEEL T-POSTS SPACED 8' OC (NSPI)

NOTES:

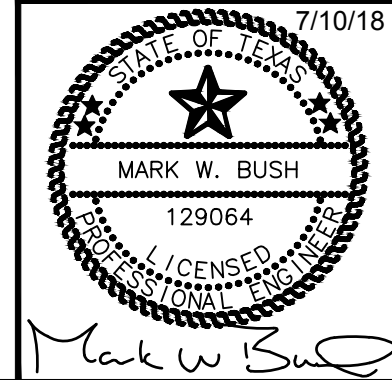
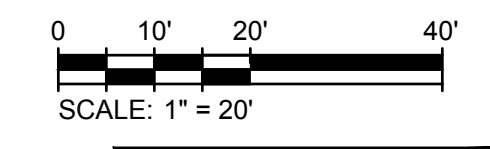
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35	02921	FURNISH AND APPLY HYDROSEED	SY	413

MARK	DATE	DESCRIPTION	BY
1	08/07/18	PER ADDENDUM NO. 4	MWB
2	09/09/18	PER ADDENDUM NO. 6	MWB

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
**54" PIPELINE
PLAN & PROFILE**
STA 195+00 TO 199+00

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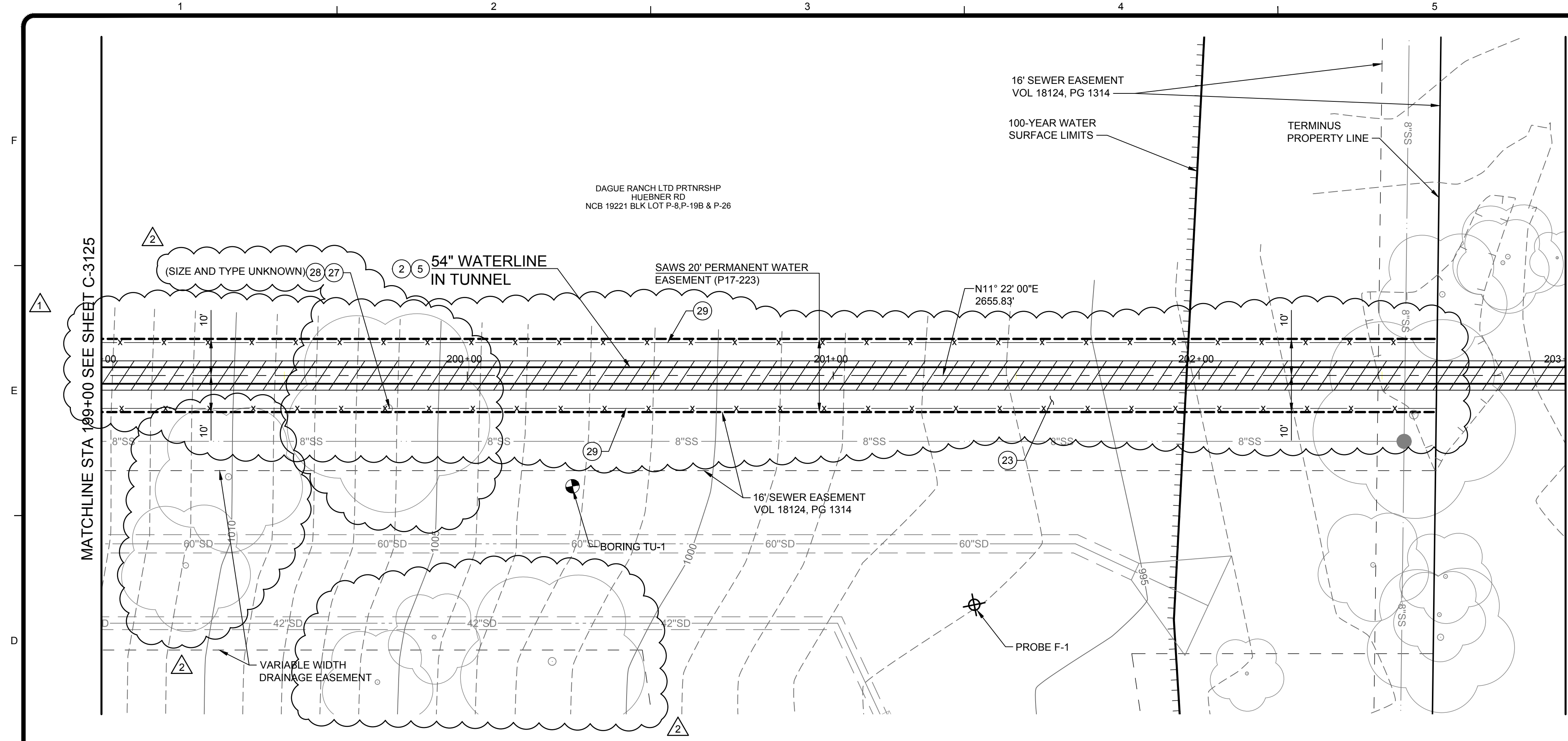
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CHKD:	MB

C-3125

Sheet 35 of 110

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MATCHLINE STA 199+00 SEE SHEET C-3125

MATCHLINE STA 203+00 SEE SHEET C-3127

CONSTRUCTION NOTES:

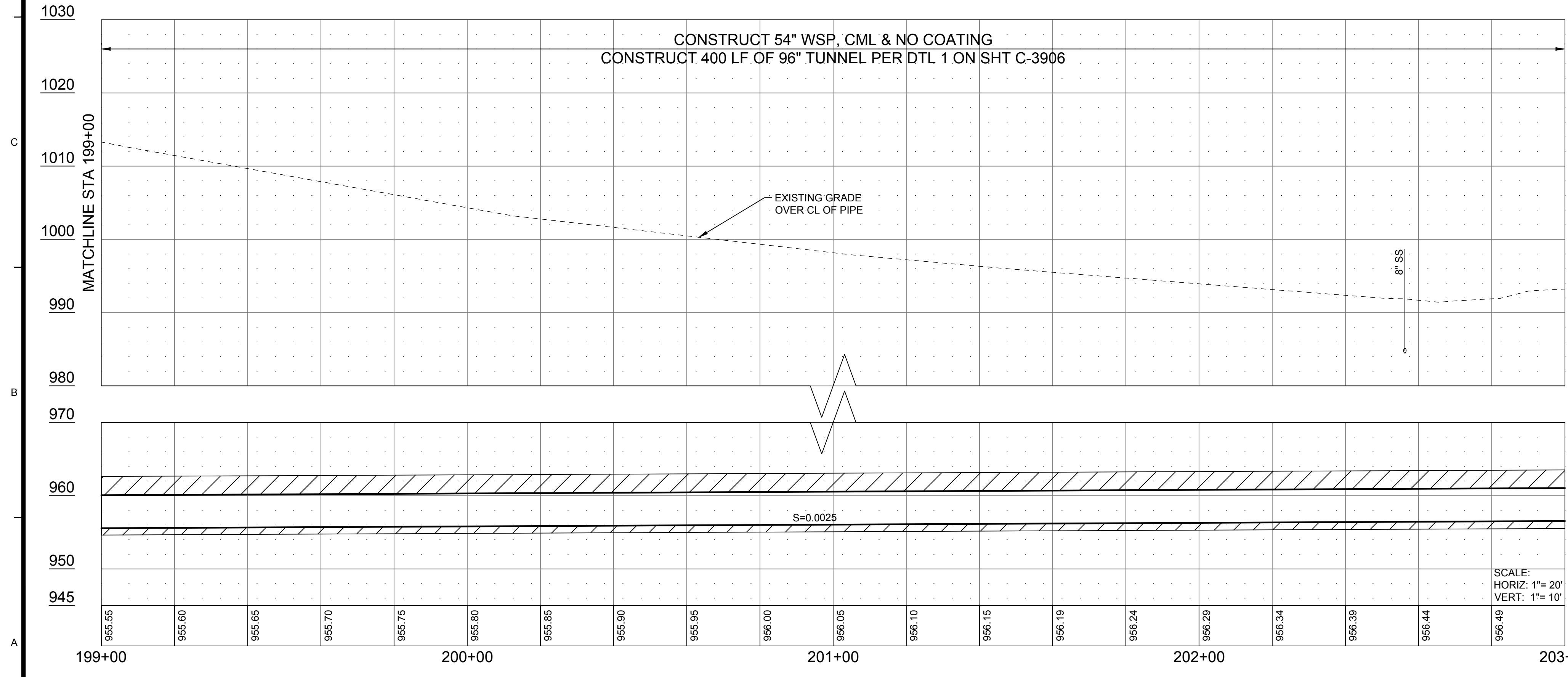
- ② CONSTRUCT 54" WSP, CML AND NO COATING. PER DTL 1 ON SHT C-3902. WELD ALL JOINTS PER DTL 2 ON SHT C-3902.
- ⑤ CONSTRUCT 96" TUNNEL PER DTL 1 ON SHT C-3906
- ②③ TOPSOIL & HYDROSEED ACCESS ROAD (W = 20')
- ②⑦ REPLACE TREE REMOVED DURING CONSTRUCTION (NSPI)
- ②⑧ REMOVE AND DISPOSE OF EXIST TREE (NSPI)
- ②⑨ INSTALL 4' TALL TEMPORARY ORANGE CONSTRUCTION FENCE WITH GREEN STEEL T-POSTS SPACED 8' OC (NSPI)

NOTES:

- 1. CONTRACTOR SHALL REFERENCE THE APPROVED MASTER TREE PERMIT FOR THE TERMINUS SITE TREE PROTECTION AND REMOVAL.
- 2. TOPSOIL AND HYDROSEED ON THE TERMINUS SITE PER SHT C-3170 (NSPI)
- 3. CONTRACTOR SHALL REFERENCE TREE PRESERVATION PLAN FOR RELATED DETAILS AND NOTES.

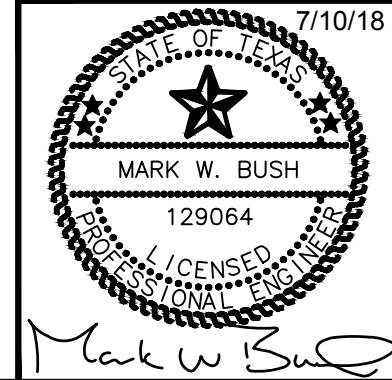
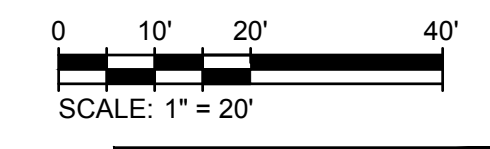
ESTIMATED QUANTITIES

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
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13	02300-A	FURNISH AND INSTALL REACH 1 TUNNEL EXCAVATION AND 96" (MIN) PRIMARY LINER FROM SONTERRA SHAFT (STA 157+40) TO THE TERMINUS SHAFT (STA 204+30), IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPLETE IN PLACE.	LF	400
16	02420-A	FURNISH AND INSTALL 54" WELDED STEEL PIPE IN REACH 1 FROM SONTERRA SHAFT (STA 157+40) TO THE TERMINUS SHAFT (STA 204+40), IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPLETE IN PLACE.	LF	400
34	COSA 515.1	FURNISH AND APPLY TOPSOIL (6-INCH DEPTH)	CY	135
35	02921	FURNISH AND APPLY HYDROSEED	SY	811



MATCHLINE STA 199+00

MATCHLINE STA 203+00



TETRA TECH
Texas Registration No. F-3924
www.tetratech.com
700 N. St Mary's, Suite 300
San Antonio, TX 78205
Ph (210) 299-7900 Fax (210) 226-9487
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ADDENDUM

SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION
1	08/07/18	PER ADDENDUM NO. 4
2	08/09/18	PER ADDENDUM NO. 6

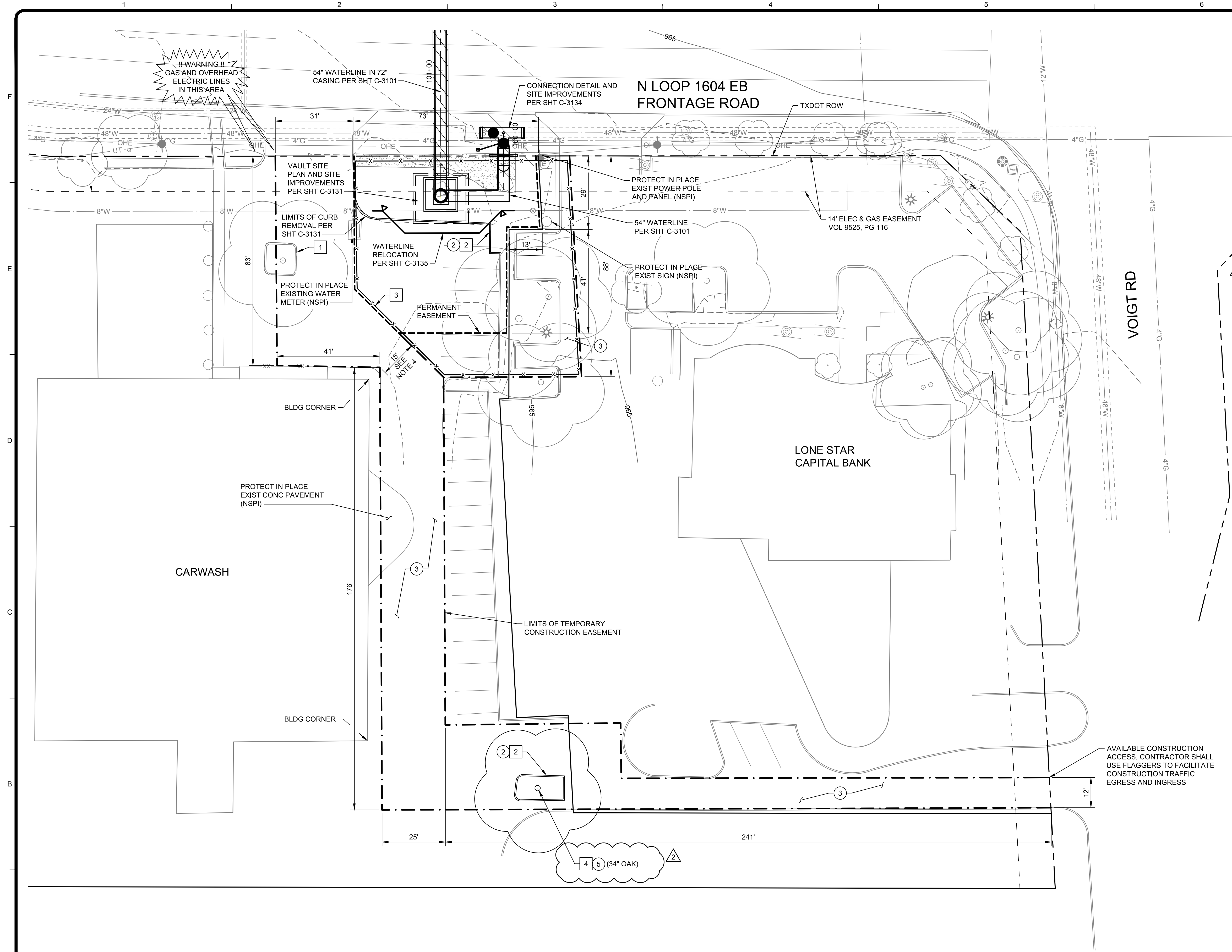
SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
**54" PIPELINE
PLAN & PROFILE**
STA 199+00 TO 203+00

PROJ:	200-09308-18001
DESIN:	ML
DRWN:	JB
CHKD:	MB

C-3126
Sheet 36 of 110

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RIGHT OF WAY PREPARATION NOTES:

- 1 PROTECT IN PLACE EXISTING MEDIAN (NSPI)
- 2 REMOVE AND DISPOSE PORTIONS OF INTERFERING EXISTING CURB AND MEDIAN. CONTRACTOR SHALL PLACE TEMPORARY PAVING AT THE LOCATION OF THE MEDIAN DURING CONSTRUCTION. TEMPORARY PAVING SHALL BE A 2" AC SURFACE COURSE (TYPE D) OVER A 10" AC BASE COURSE (TYPE B) (NSPI)
- 3 INSTALL 8' TALL TEMPORARY CHAIN-LINK FENCE WITH PRIVACY MESH (NSPI)
- 4 REMOVE AND DISPOSE OF EXISTING TREE (NSPI)

RIGHT OF WAY RESTORATION NOTES:

- 1 CONTRACTOR SHALL NOT BEGIN ANY RIGHT OF WAY RESTORATION WITHOUT THE APPROVAL BY SAWS
- 2 CURB AND MEDIAN REMOVED DURING ROW PREPARATION SHALL BE REPLACED IN-KIND TO MATCH PRE-EXISTING CONDITIONS OR BETTER
- 3 SLURRY SEAL EXISTING PAVEMENT TO LIMITS OF TEMPORARY CONSTRUCTION EASEMENT
- 4 RE-STRIPE PARKING LOT MARKINGS IN-KIND TO MATCH PRE-EXISTING CONDITIONS OR BETTER (NSPI)
- 5 REPLACE TREE REMOVED DURING ROW PREPARATION (NSPI)

NOTES:

1. CONTRACTOR SHALL SURVEY THE EXISTING IMPROVEMENTS PRIOR TO MOBILIZING. SURVEY SHALL BE SUBMITTED TO SAWS FOR REVIEW PRIOR TO ANY EXISTING REMOVALS. ANY EXISTING SURFACES THAT ARE REMOVED BY THE CONTRACTOR TO ACCOMMODATE THEIR STAGING SHALL BE REPLACED IN-KIND OR BETTER. (NSPI)
2. SEE SPECIFICATION SECTION 01015 FOR WORK RESTRICTIONS AND REQUIREMENTS.
3. SWPPP REQUIREMENTS PER SHT C-3181.
4. CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES. CONTRACTOR SHALL USE FLAGGERS TO FACILITATE BI-DIRECTIONAL TRAFFIC PATTERNS AT ALL TIMES.
5. CONTRACTOR SHALL REFERENCE TREE PRESERVATION PLAN FOR RELATED DETAILS AND NOTES.
6. FOR WORK HOURS AT THE VOIGT CONNECTION, SEE THE SUPPLEMENTARY CONDITIONS OF THE SPECIFICATIONS
7. CONNECTION AT VOIGT SHALL BE MADE PER THE TIME RESTRICTIONS STATED IN SPECIFICATIONS SECTION 01010.
8. ALL WORK AT THE VOIGT CONNECTION SHALL COMPLY WITH THE REQUIREMENTS STATED IN THE SPECIAL PROVISIONS OF THE SPECIFICATIONS.
9. CONTRACTOR SHALL RESTORE IN-KIND ANY EXISTING CURB AND LANDSCAPING DAMAGED DURING CONSTRUCTION ACTIVITIES TO PRECONSTRUCTION CONDITIONS OR BETTER. GRASS AREA SHALL BE REPLACED WITH SOD. (NSPI)
10. THE CONTRACTOR SHALL REPLACE IN KIND ANY EXISTING IRRIGATION PIPING, CONTROL WIRES AND SPRINKLER HEADS DAMAGED DURING CONSTRUCTION ACTIVITIES TO PRECONSTRUCTION CONDITIONS OR BETTER. (NSPI)

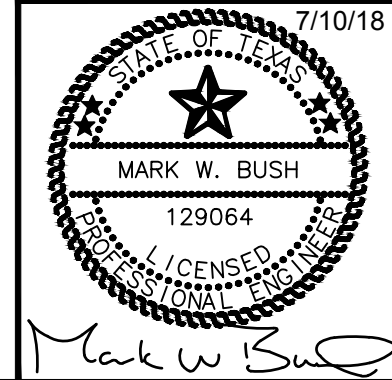
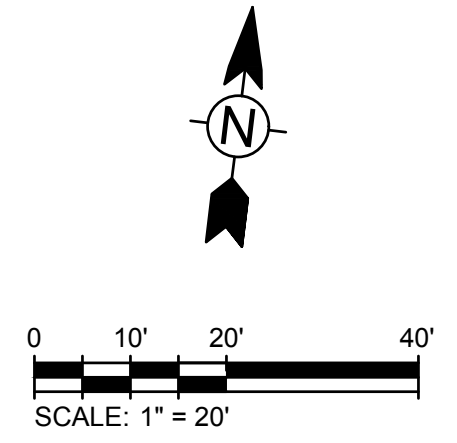
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Texas Registration No. F-3924
www.tetra-tech.com
700 N. St. Mary's, Suite 300
San Antonio, TX 78205
Ph (210) 299-7900 Fax (210) 226-6487
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ADDENDUM

SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY
2	08/09/18	PER ADDENDUM NO. 6	MWB

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
**SITE IMPROVEMENT PLAN
AT VOIGT**

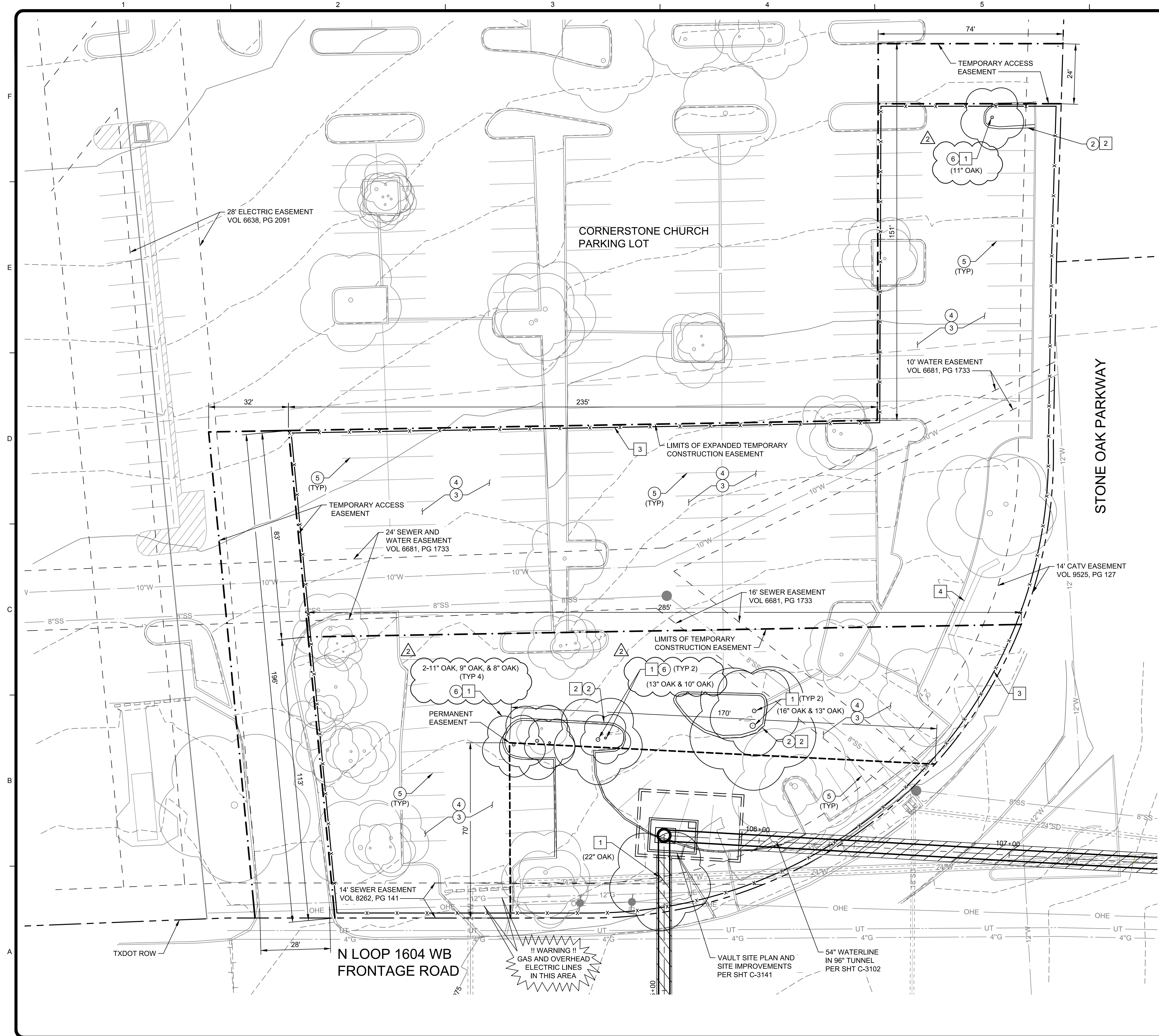


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DESN:	ML
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CHKD:	MB

C-3130
Sheet 38 of 110

Bar measures 1 inch, otherwise drawing is not to scale

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CORNERSTONE CHURCH RIGHT OF WAY PREPARATION NOTES:

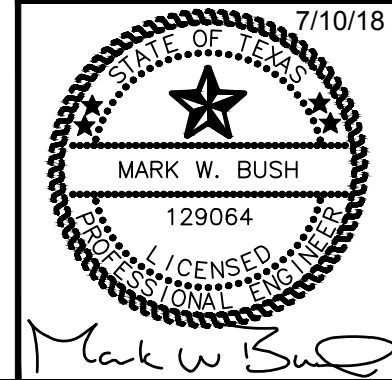
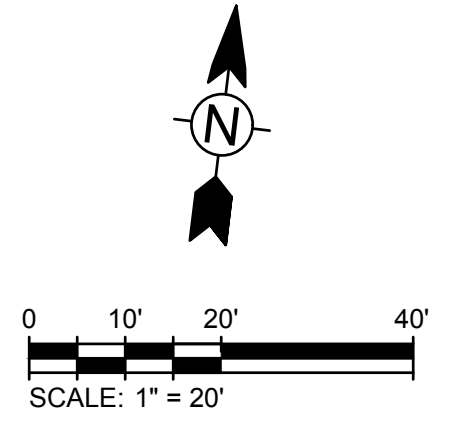
- 1 REMOVE AND DISPOSE OF EXISTING TREES (NSPI)
- 2 REMOVE AND DISPOSE PORTIONS OF INTERFERING EXISTING CURB AND MEDIAN. CONTRACTOR SHALL PLACE TEMPORARY PAVING AT THE LOCATION OF THE MEDIAN DURING CONSTRUCTION. TEMPORARY PAVING SHALL BE A 2" AC SURFACE COURSE (TYPE D) OVER A 10" AC BASE COURSE (TYPE B) (NSPI)
- 3 INSTALL 8' TALL TEMPORARY CHAIN-LINK FENCE WITH PRIVACY MESH (NSPI)
- 4 PROTECT IN PLACE CORNERSTONE CHURCH SIGN AT THE CORNER OF STONE OAK PARKWAY AND 1604 FRONTAGE ROAD (NSPI)

RIGHT OF WAY RESTORATION NOTES:

- 1 CONTRACTOR SHALL NOT BEGIN ANY RIGHT OF WAY RESTORATION WITHOUT THE APPROVAL BY SAWS
- 2 CURB AND MEDIAN REMOVED DURING ROW PREPARATION SHALL BE REPLACED IN-KIND TO MATCH PRE-EXISTING CONDITIONS OR BETTER (NSPI)
- 3 2" MILL EXISTING PAVEMENT TO LIMITS OF EXPANDED TEMPORARY EASEMENT (NSPI)
- 4 2" OVERLAY PAVEMENT TO LIMITS OF EXPANDED TEMPORARY EASEMENT (NSPI)
- 5 RE-STRIPE PARKING LOT MARKINGS IN-KIND TO MATCH PRE-EXISTING CONDITIONS OR BETTER (NSPI)
- 6 REPLACE TREE REMOVED DURING ROW PREPARATION (NSPI)

NOTES:

1. CONTRACTOR SHALL SURVEY THE EXISTING IMPROVEMENTS PRIOR TO MOBILIZING. SURVEY SHALL BE SUBMITTED TO SAWS FOR REVIEW PRIOR TO ANY EXISTING REMOVALS. ANY EXISTING SURFACES THAT ARE REMOVED BY THE CONTRACTOR TO ACCOMMODATE THEIR STAGING SHALL BE REPLACED IN-KIND OR BETTER. (NSPI)
2. SEE SPECIFICATIONS SECTION 01015 FOR WORK RESTRICTIONS AND REQUIREMENTS.
3. SWPPP REQUIREMENTS PER SHT C-3181
4. CONTRACTOR MAY ELECT TO REMOVE ADDITIONAL CURB AND MEDIANS WITHIN THE LIMITS OF THE EXPANDED TEMPORARY CONSTRUCTION EASEMENT SO LONG AS THE TREES ARE PROTECTED IN PLACE PER THE TREE PRESERVATION PLAN. (NSPI)
5. CONTRACTOR SHALL REFERENCE TREE PRESERVATION PLAN FOR RELATED DETAIL AND NOTES.
6. FOR WORK HOURS WITHIN THE EASEMENT AT CORNERSTONE CHURCH, SEE THE SUPPLEMENTARY CONDITIONS OF THE SPECIFICATIONS.
7. ALL WORK WITHIN THE EASEMENT AT CORNERSTONE CHURCH SHALL COMPLY WITH THE REQUIREMENTS STATED IN THE SPECIAL PROVISIONS OF THE SPECIFICATIONS.



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ADDENDUM

MARK	DATE	DESCRIPTION
2	08/09/18	PER ADDENDUM NO. 6

SAN ANTONIO WATER SYSTEM

BY	DATE	DESCRIPTION
MWB		

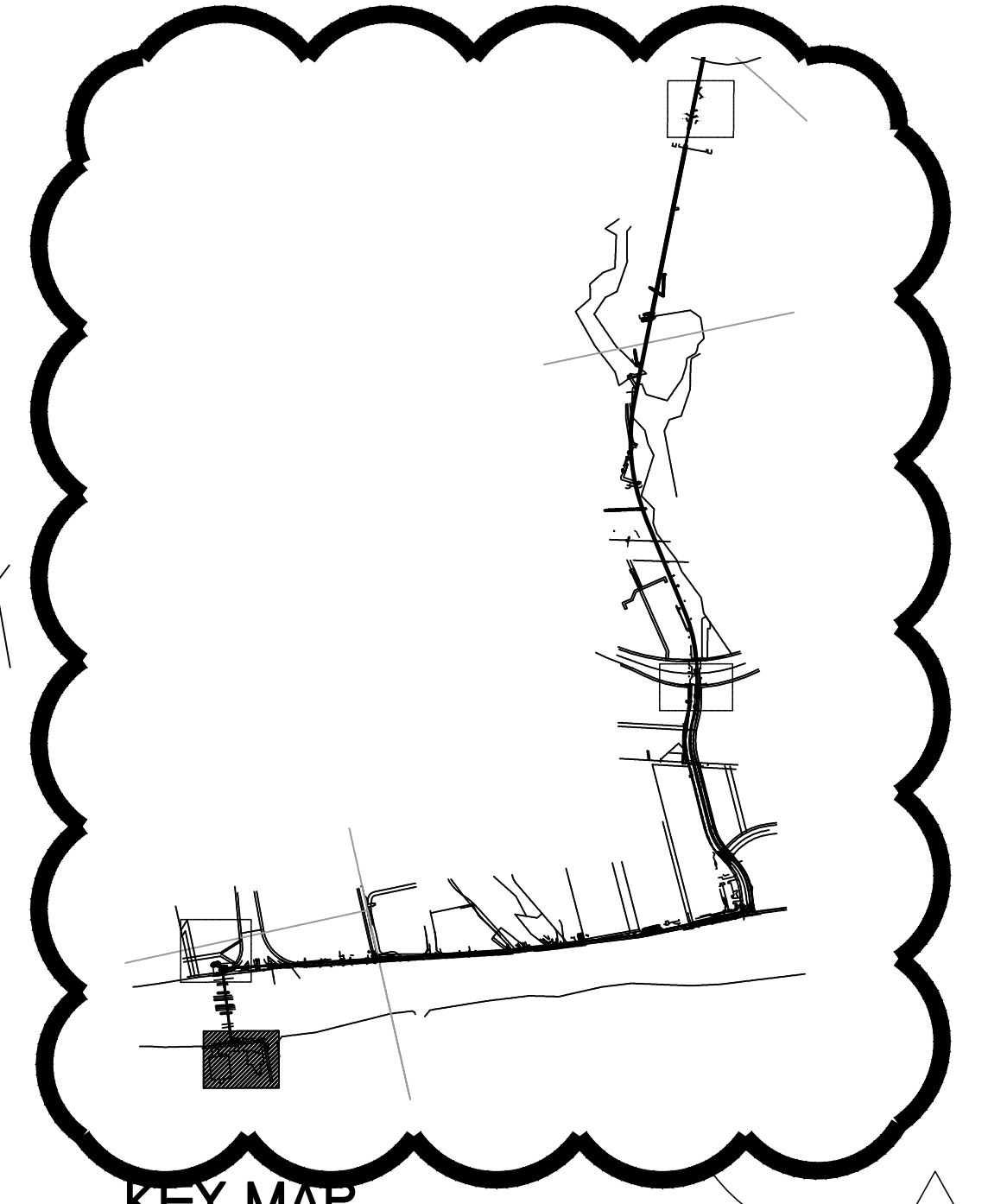
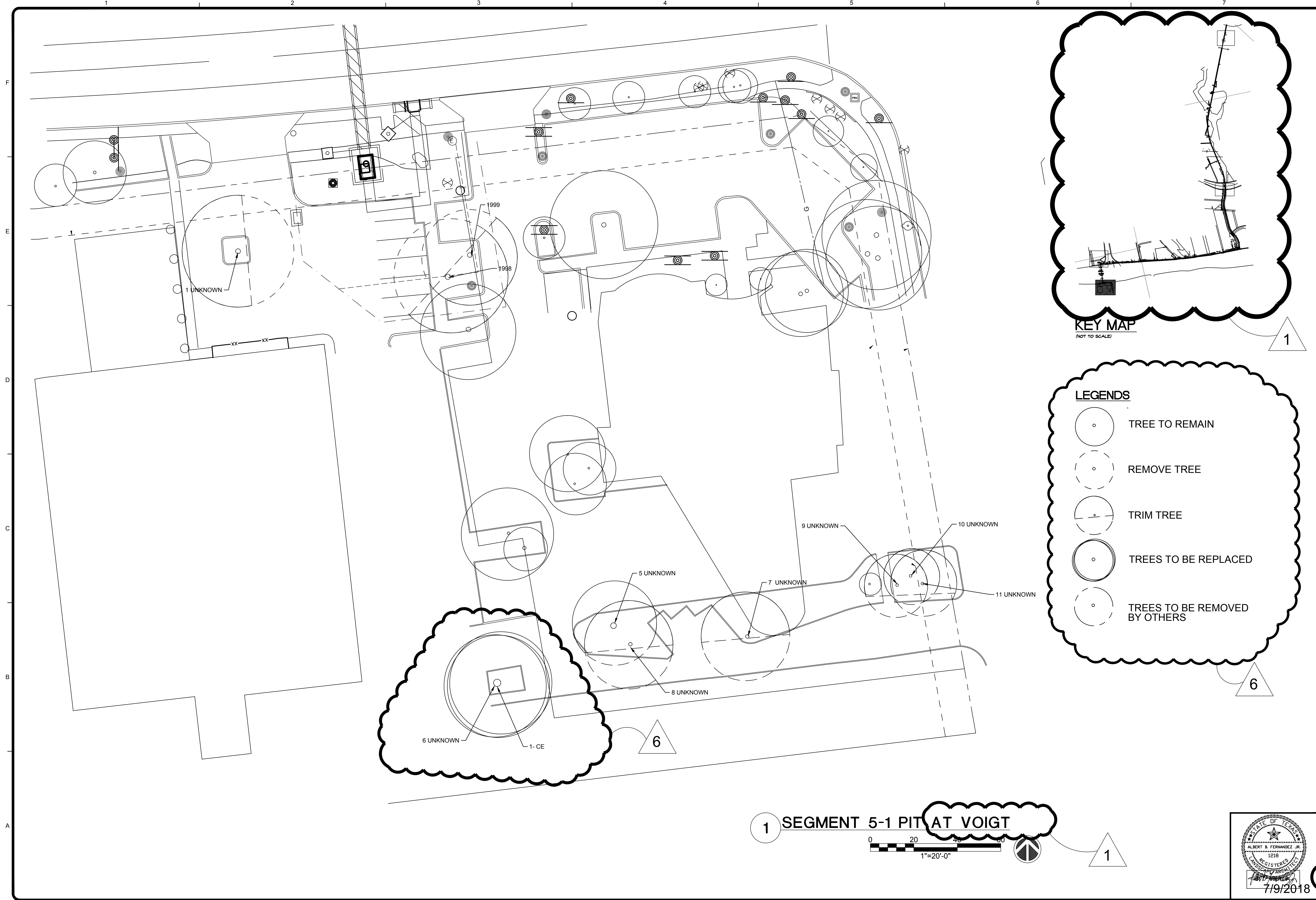
SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
**SITE IMPROVEMENT PLAN
AT CORNERSTONE**

PROJ:	200-09308-18001
DESIGN:	ML
DRWN:	JB
CHKD:	MB

C-3140
Sheet 44 of 110

Bar measures 1 inch, otherwise drawing is not to scale

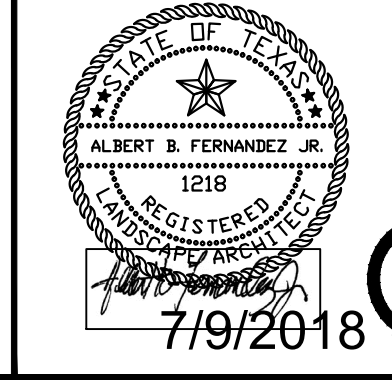
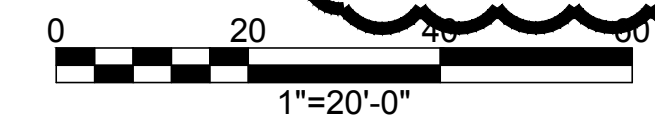
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LEGENDS

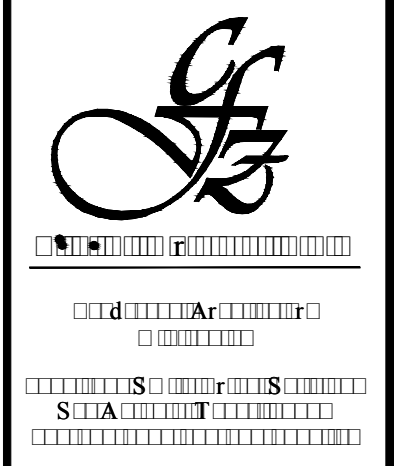
- TREE TO REMAIN
- REMOVE TREE
- TRIM TREE
- TREES TO BE REPLACED
- TREES TO BE REMOVED BY OTHERS

1 SEGMENT 5-1 PIT AT VOIGT



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ADDENDUM



SAN ANTONIO WATER SYSTEM

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1	7/24/2018	ADDENDUM	
2	8/8/2018	ADDENDUM No. 6	

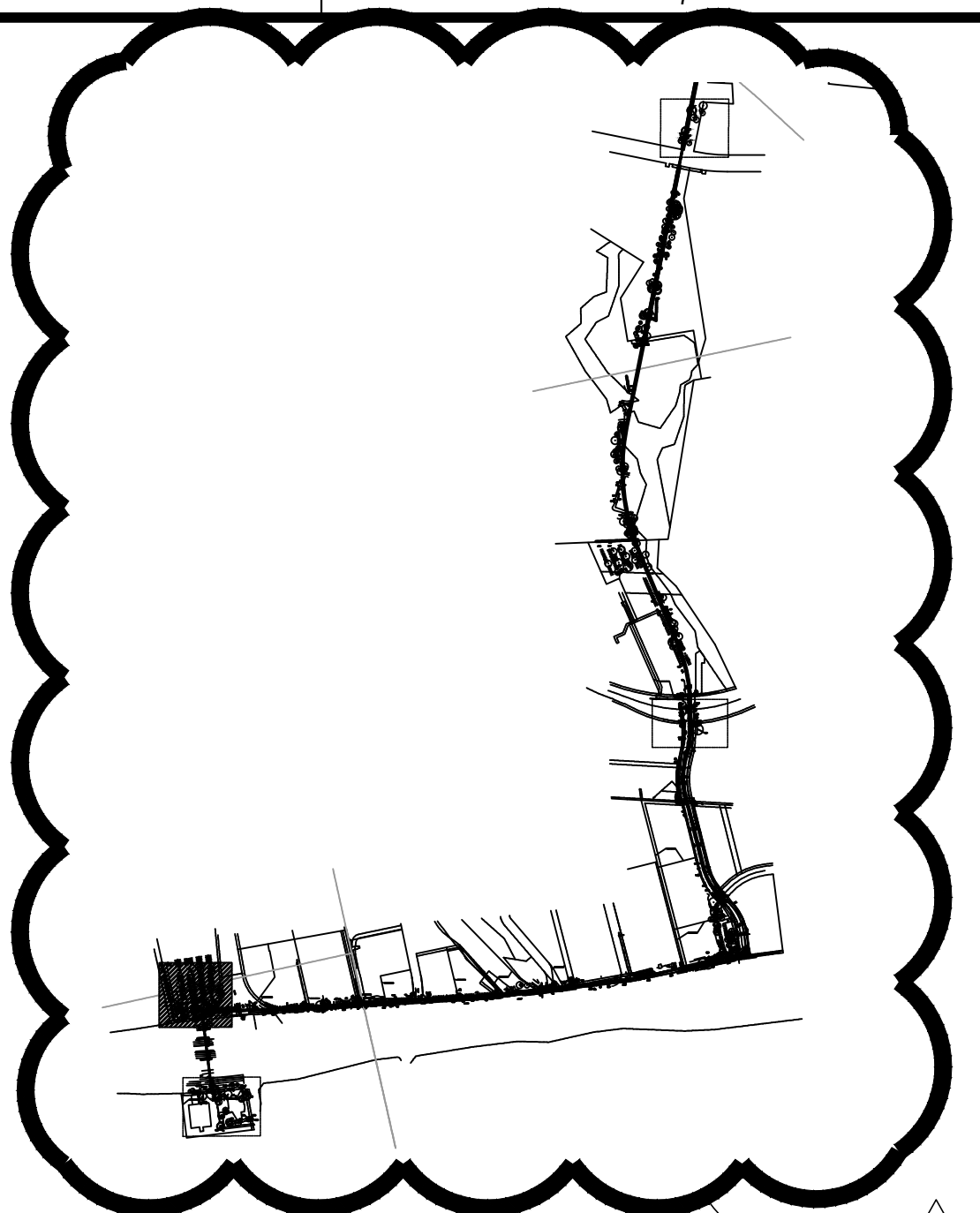
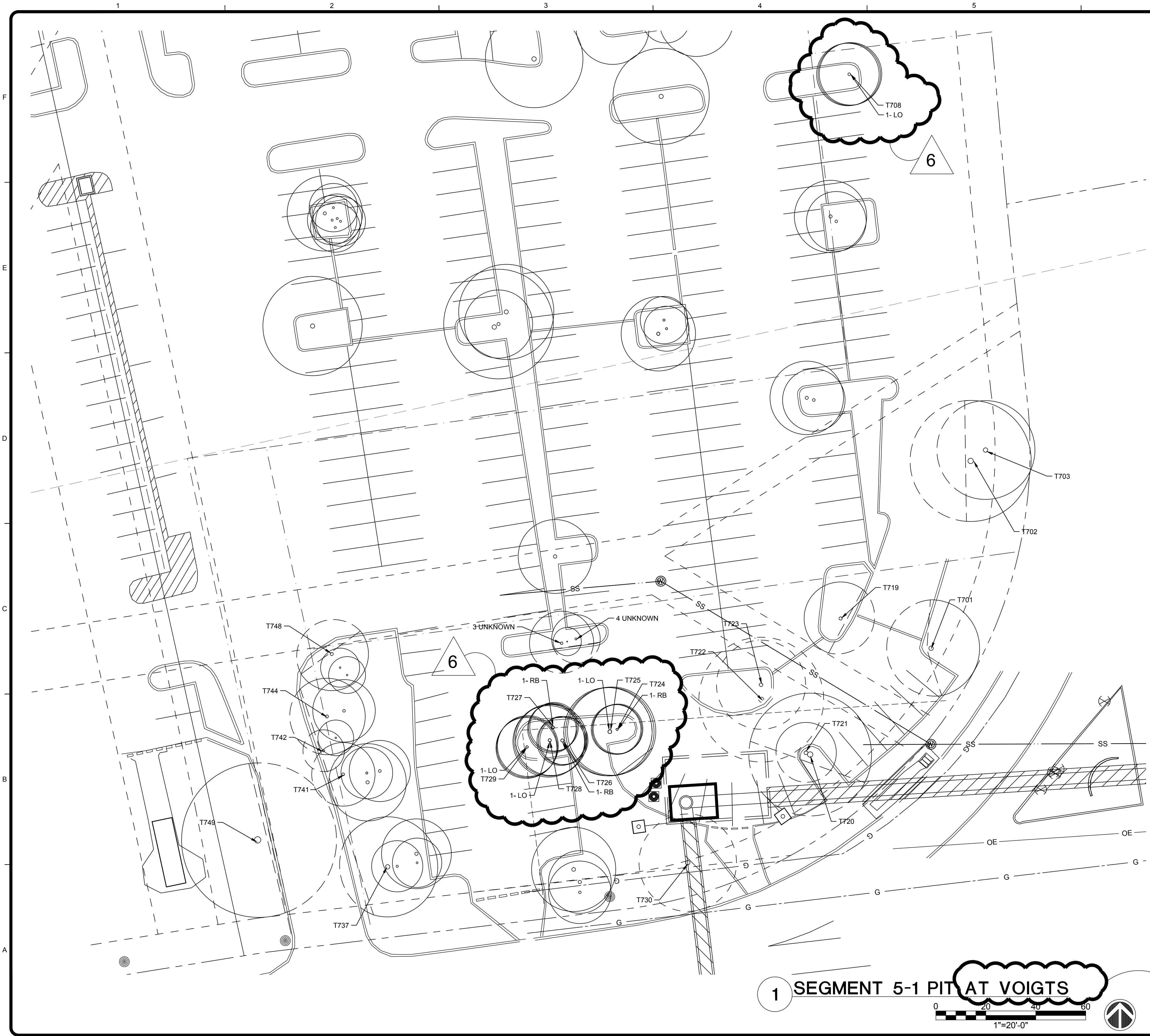
**SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
TREE PRESERVATION
PLANS**

PROJ:	200-09308-18001
DESN:	
DRWN:	
CHKD:	

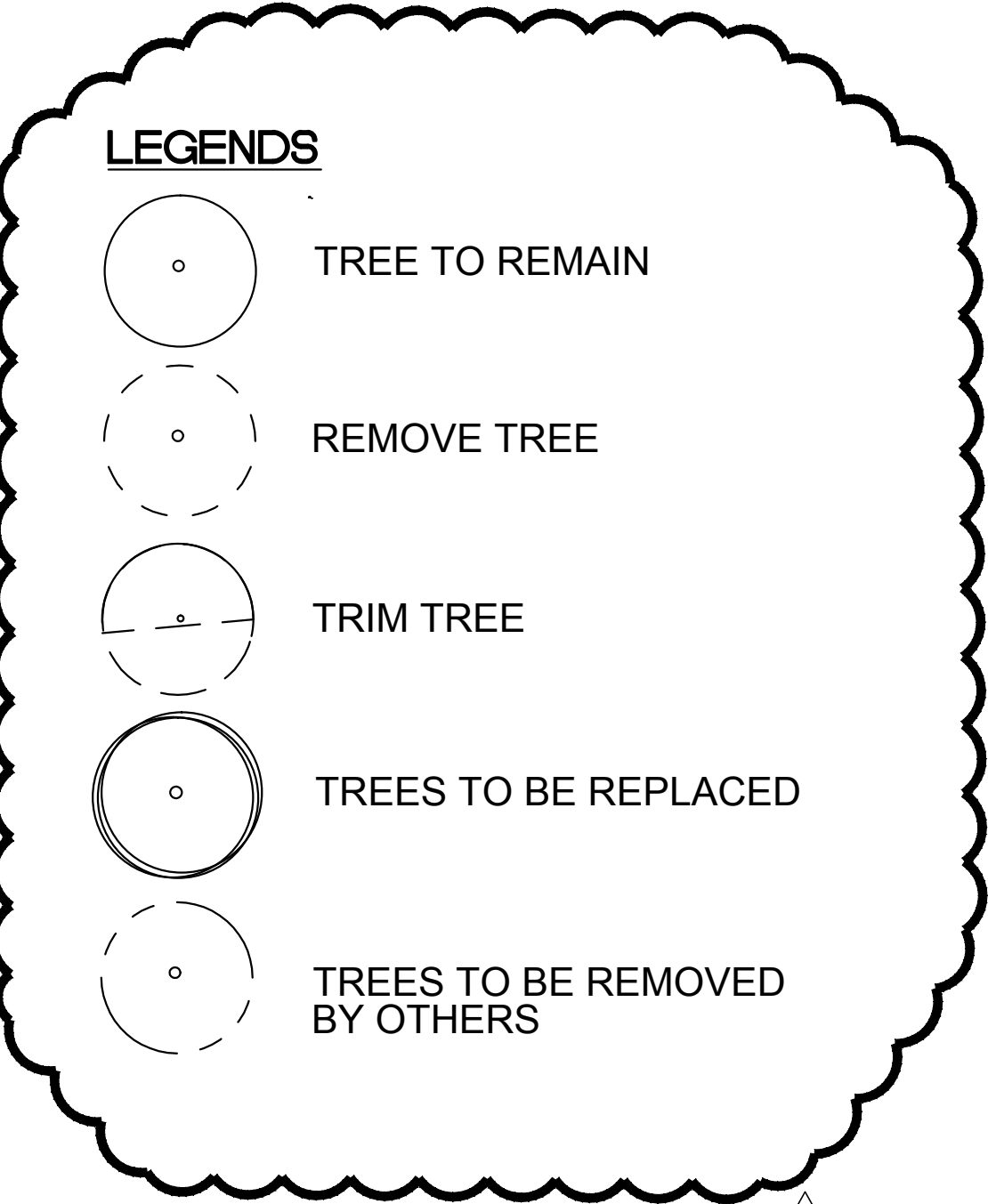
L-101

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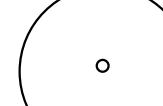
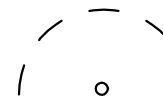

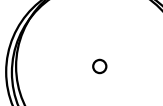
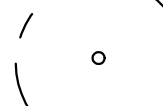
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KEY MAP
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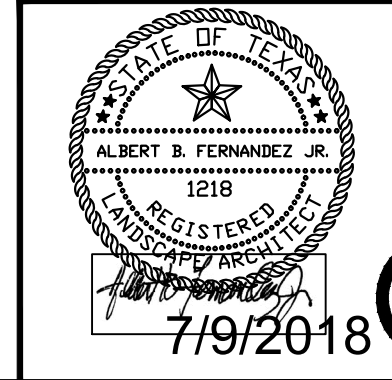


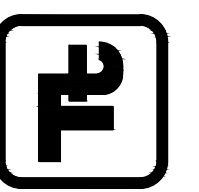
LEGENDS

-  TREE TO REMAIN
-  REMOVE TREE
-  TRIM TREE
-  TREES TO BE REPLACED
-  TREES TO BE REMOVED BY OTHERS

1 SEGMENT 5-1 PIT AT VOIGTS 1

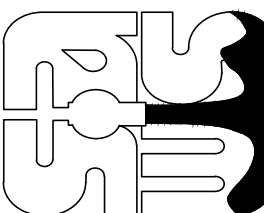
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SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION
1	7/24/2018	ADDENDUM
6	8/8/2018	ADDENDUM No. 6

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1

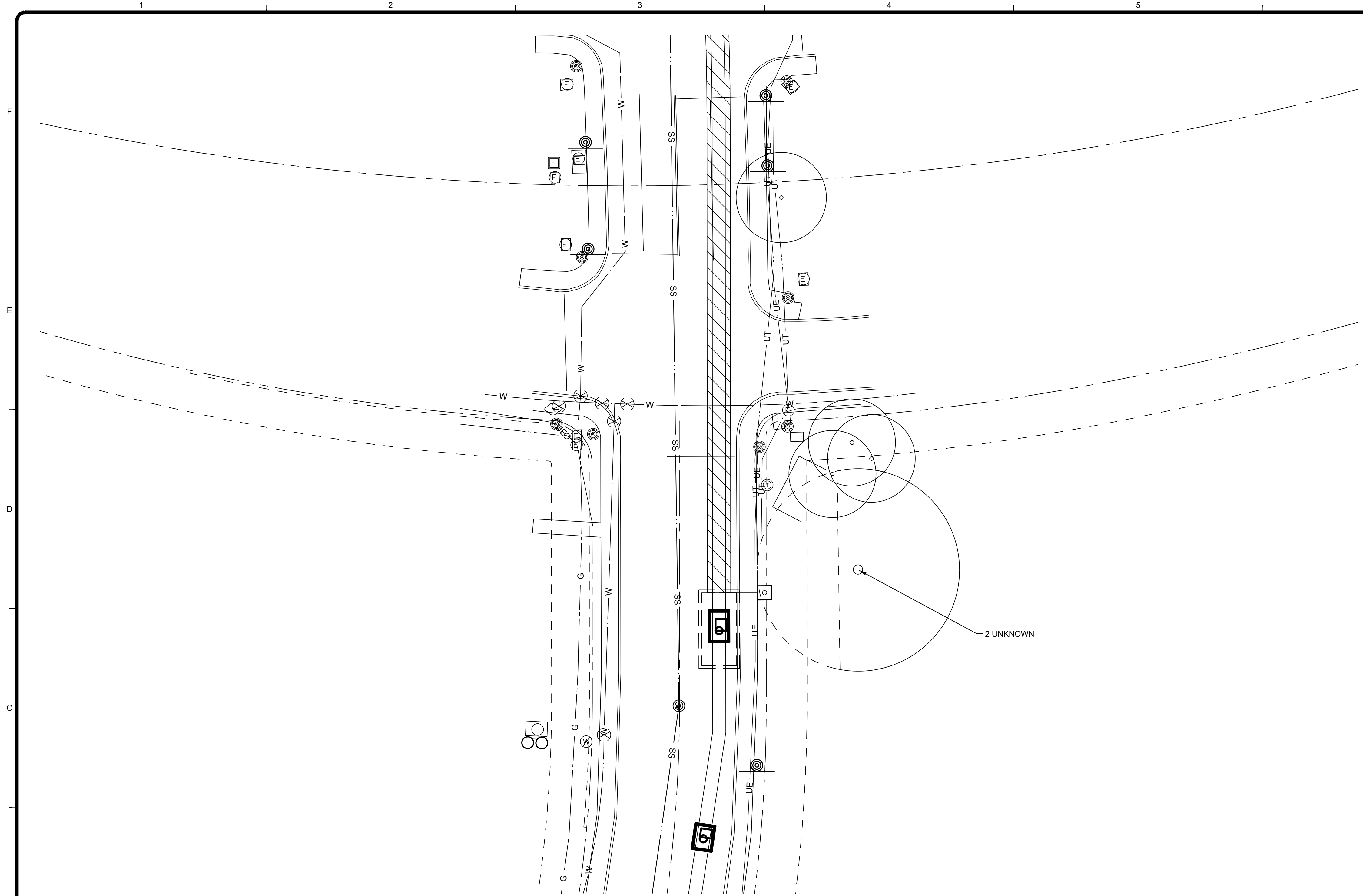
TREE PRESERVATION PLANS

PROJ: 200-09308-18001
 DESN:
 DRWN:
 CHKD:

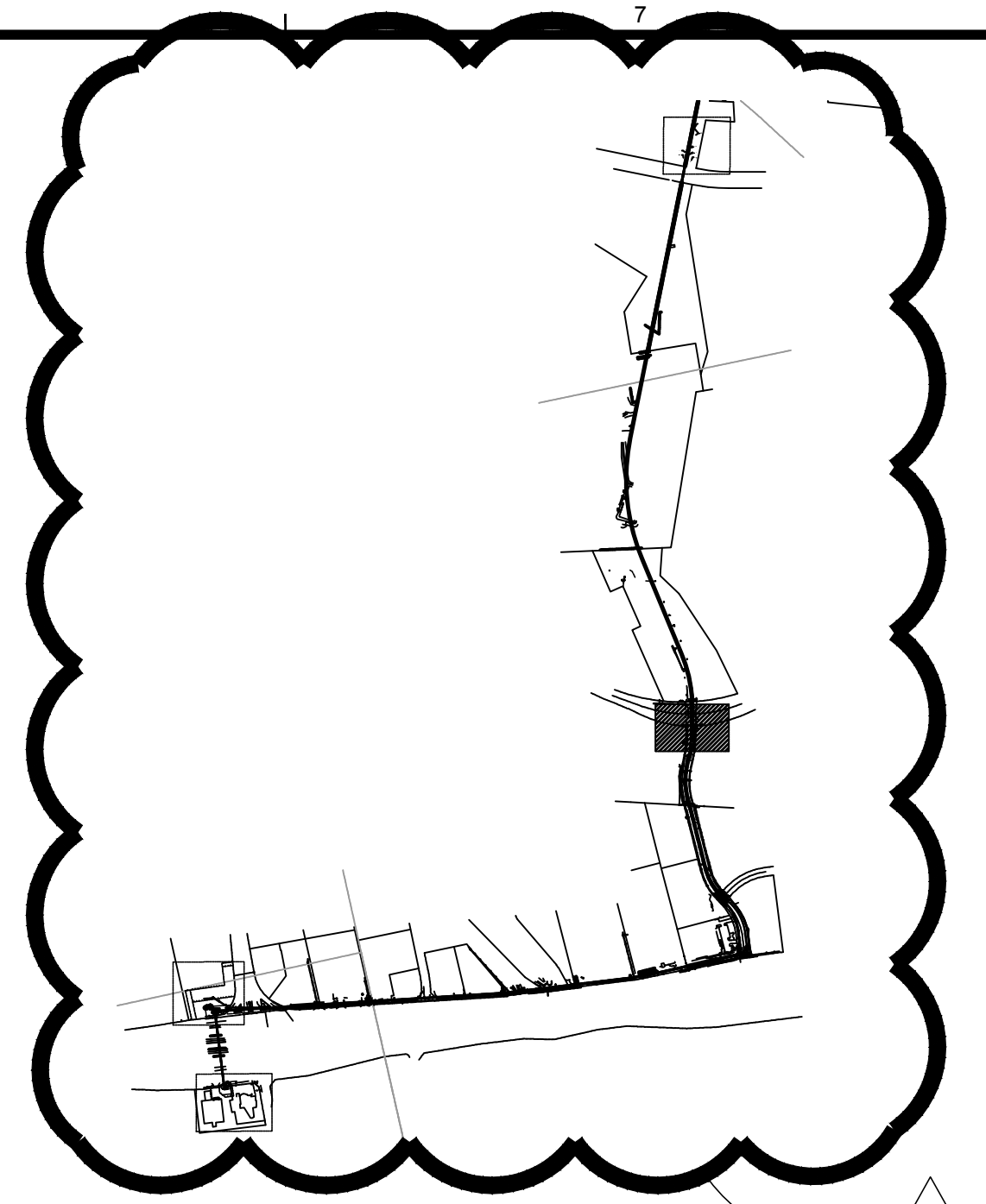
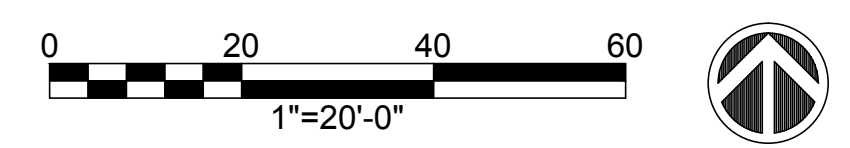
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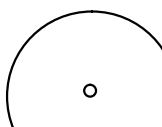
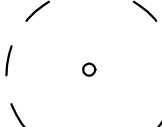
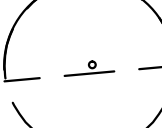
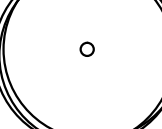



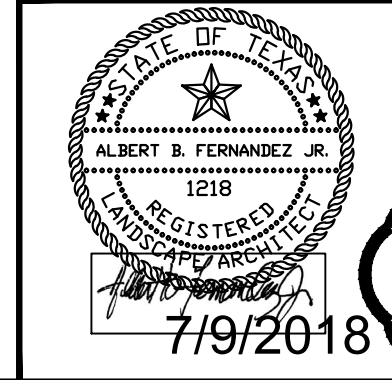
1 SEGMENT 5-1 PIT NEAR SONTERRA BLVD



KEY MAP
(NOT TO SCALE)

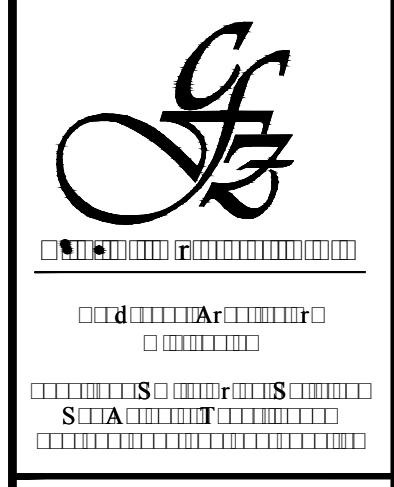
LEGENDS

-  TREE TO REMAIN
-  REMOVE TREE
-  TRIM TREE
-  TREES TO BE REPLACED
-  TREES TO BE REMOVED BY OTHERS



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SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY
A	7/24/2018	ADDENDUM	
B	8/8/2018	ADDENDUM No. 6	

**SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
TREE PRESERVATION
PLANS**

PROJ: 200-09308-18001

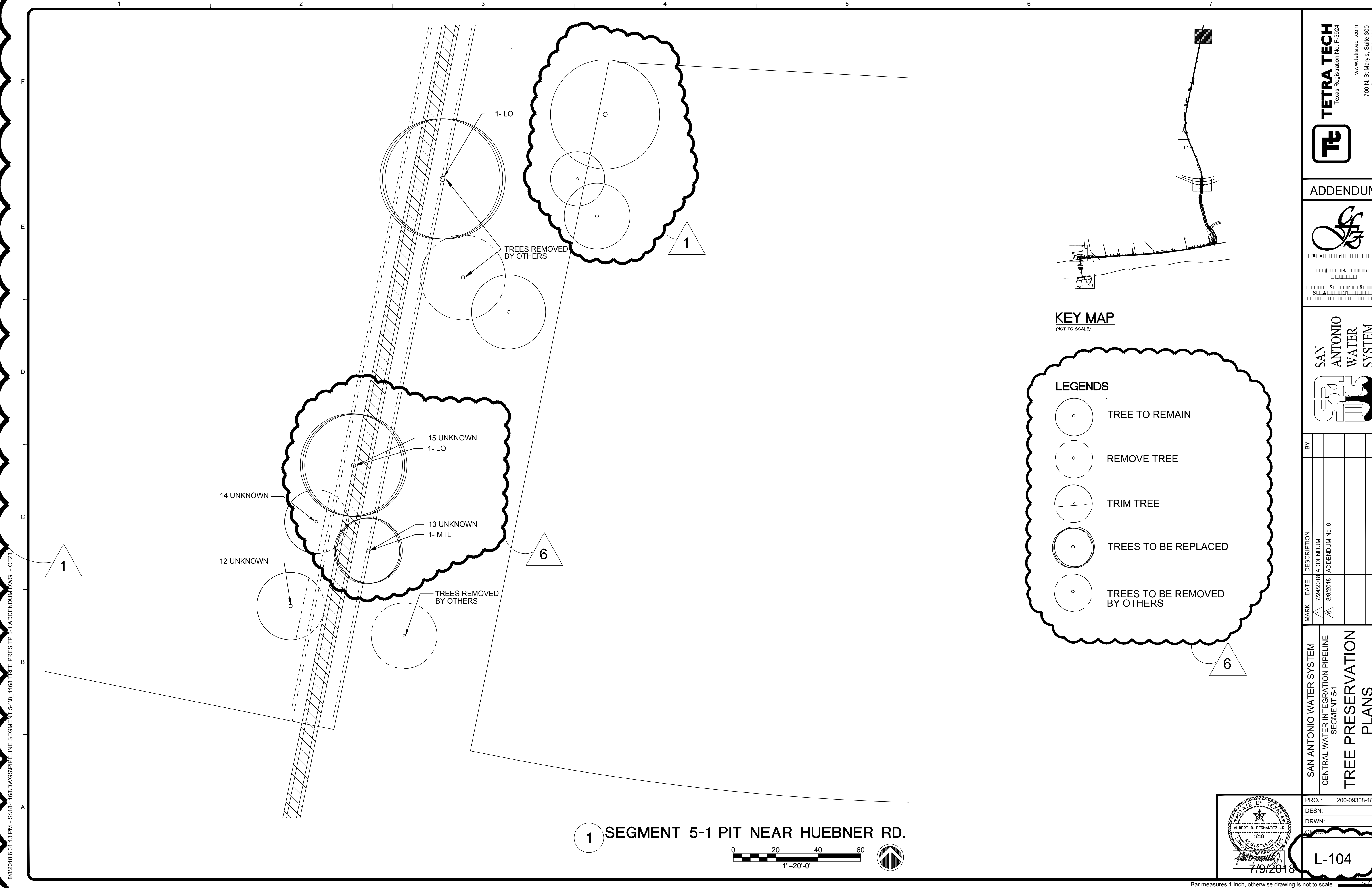
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CHK:

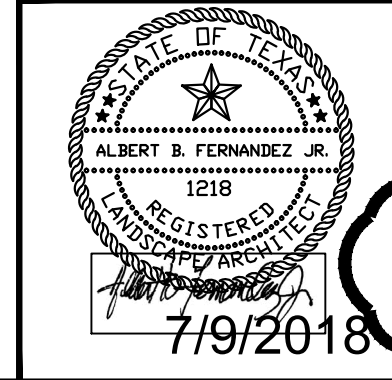
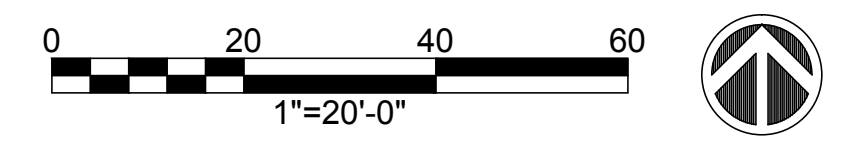
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1 SEGMENT 5-1 PIT NEAR HUEBNER RD.

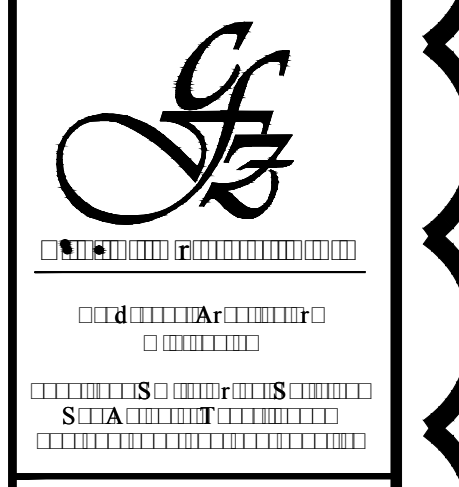


L-104

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SAN ANTONIO WATER SYSTEM

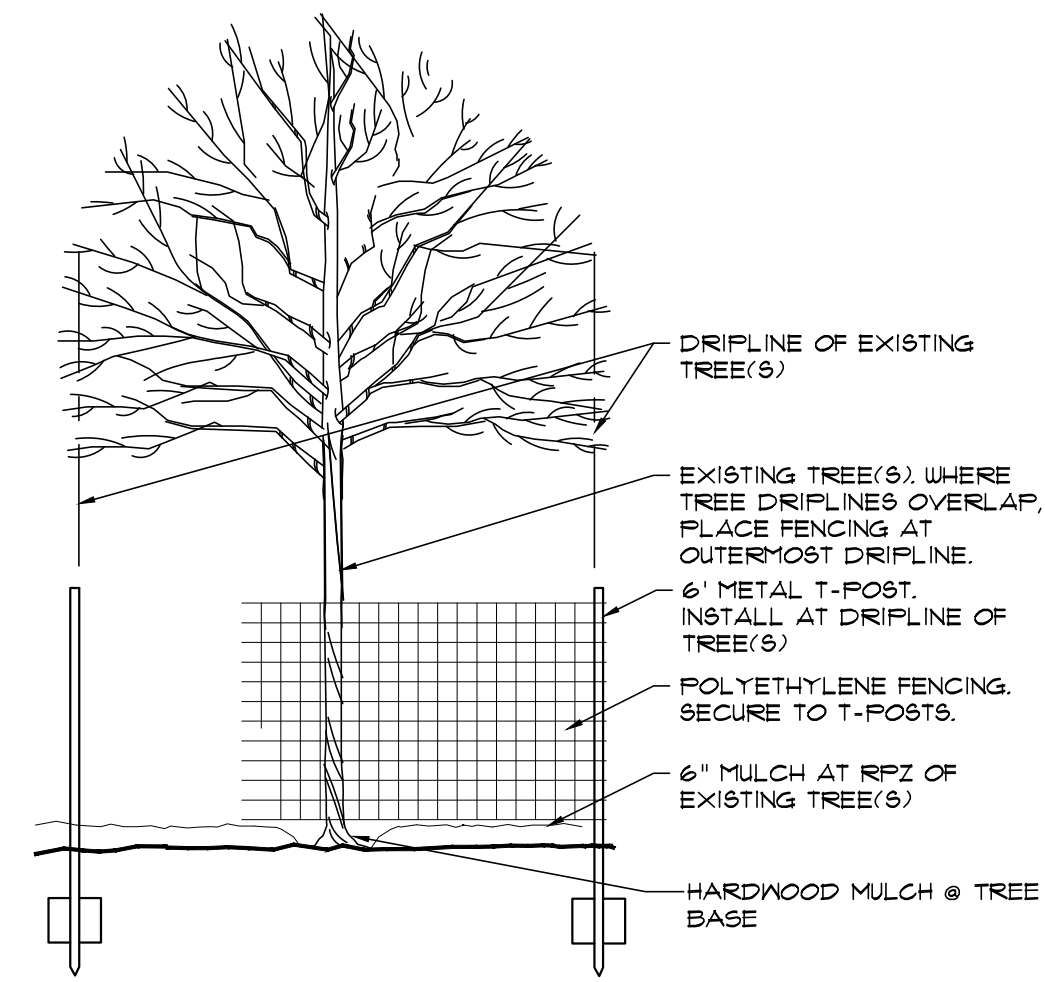
MARK	DATE	DESCRIPTION	BY
A	7/24/2018	ADDENDUM	
B	8/8/2018	ADDENDUM No. 6	

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1

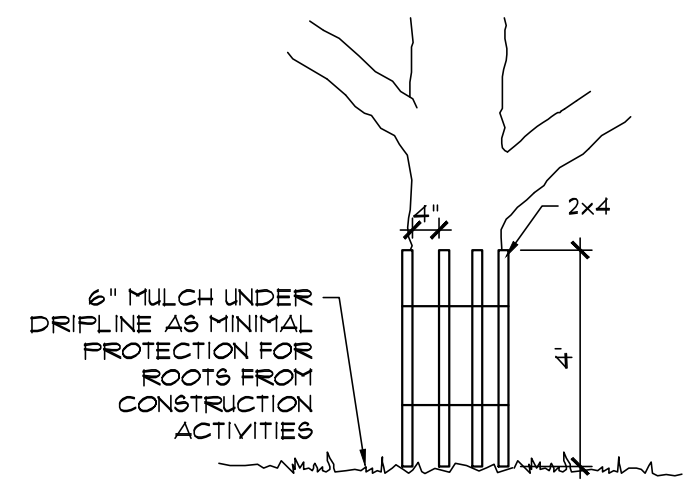
TREE PRESERVATION PLANS

PROJ:	200-09308-18001
DESN:	
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Bar measures 1 inch, otherwise drawing is not to scale

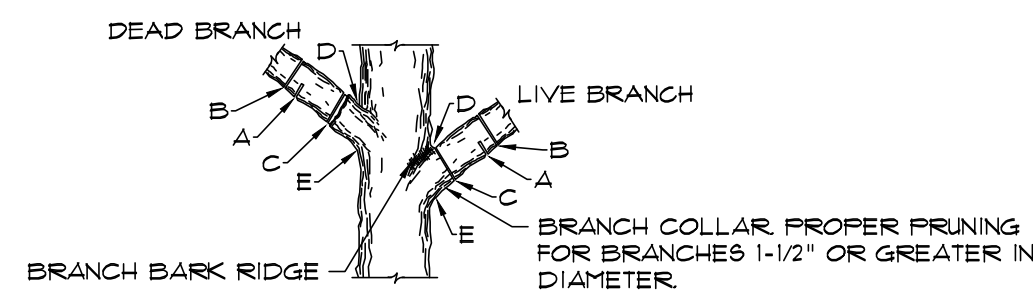


1 TREE PROTECTION FENCING
NTS



NOTE: WRAP TREE TRUNK WITH 2"x4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

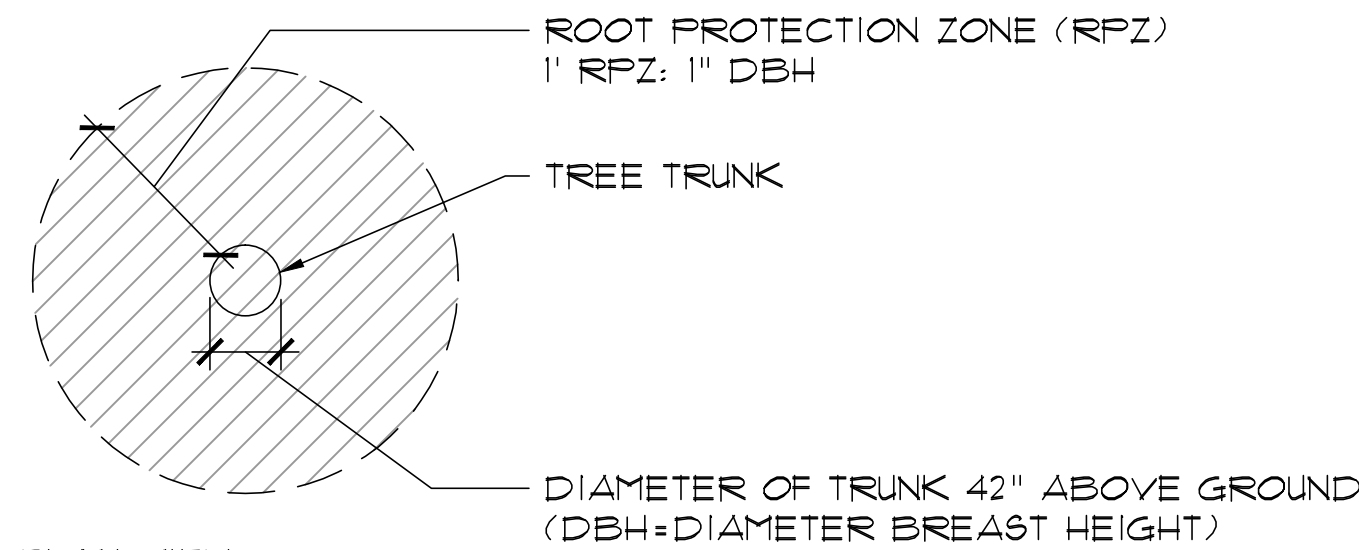
2 TREE ARMOR
NTS



NOTE: DO NOT CUT FROM D to E.
A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
D. BRANCH RIDGES - PROPERLY INDENT BRANCH RIDGES WHICH ARE SITE FOR DECAY.

FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 30 MINUTES TO PREVENT THE SPREAD OF OAK WILT.

3 BRANCH PRUNING
NTS



PLAN VIEW

ROOT PROTECTION ZONE NOTES:

- All trees to be preserved shall be protected against injury or damage, including soil compaction, breaking or skinning of roots, trunks, or branches during construction operations. A minimum of 50% of the RPZ shall be preserved at natural grade. No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to the trunk than 1/2 the RPZ radius.
- Protect designated tree with a temporary minimum 4' height fencing. See Detail 1/TP-3105.
- Erect temporary fencing before commencing site preparation work. Maintain fencing during full construction period. Remove fencing only when all hardscape construction work is completed.
- Protect all existing trees from disposal or storage of construction materials or vehicle parking. Protect trees from spreading of spoiled soil over RPZ.
- Install and maintain 6" shredded mulch within RPZ throughout construction. See dtl 1/TP-3105.
- Repair preserved trees damaged by construction operations per arborist industry standards. All broken branches and exposed roots of existing trees shall be cut cleanly. All oak species must be painted with tree wound dressing within 30 minutes.
- The proposed finished grade and elevation within the RPZ of any existing tree shall not be raised or lowered more than three (3) inches. Finished grade and elevation above or below 3" shall included tree wells/retaining walls outside the RPZ.
- Replace trees scheduled to remain that are removed or damaged beyond repair by construction operations, as determined by Landscape Architect or City Representative, with tree(s) of similar size and species. Cost for tree replacement shall be determined in accordance with the Tree Evaluation Formula as described in "A Guide to the Professional Evaluation of Landscape Trees, Specimen Shrubs, and Evergreens" as published by the International Society of Arboriculture.
- All costs for repair and replacement of preserved trees damaged by construction operations or lack of adequate protection during construction shall be borne by Contractor.
- City of San Antonio Tree Maintenance license required for Contractor or Subcontractor employed to prune, treat or remove trees.
- A certified arborist is required for Contractor or Subcontractor employed to prune, treat or remove trees.

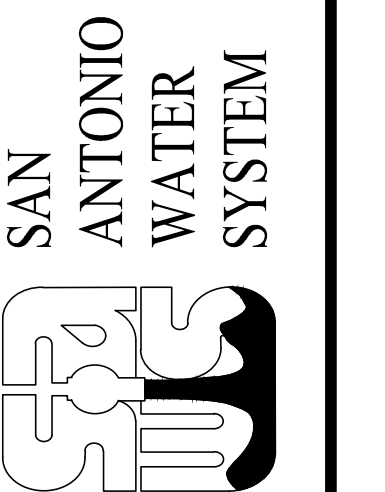
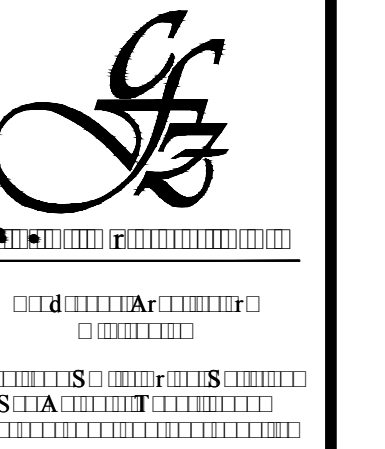
4 ROOT PROTECTION ZONE (RPZ)
NTS

Note: No separate pay items for tree removal and tree protection. These items should be in prepare right of way, Bid items.

TREE PRESERVATION NOTES (Keyed Notes)

- Existing trees and understory are to be selectively retained as directed by Landscape Architect. Trees to remain shall include protected trees 6" caliper and larger, and smaller, unprotected trees 2" and larger.
- All conditions necessitating the removal or pruning of a tree shall be reviewed by Landscape Architect. The locations of any improvements with the potential of impacting trees shall be staked/delineated prior to the field review.
- Maximum clearing limit within selective clearing areas around buildings to provide access for construction is 15'-0".
- Root Protection Zone (RPZ): RPZ requirements are defined as 12" radius per 1" caliper of trunk at 42" height (Diameter Breast Height, DBH). Minimum RPZ requirements are 6" for each 1" caliper at DBH.
- Barricade fencing shall be placed to protect RPZ of all trees to remain that are adjacent to construction or disturbed areas unless otherwise approved by Landscape Architect to provide access to work. In these instances the minimum distance for barricade fencing from trunk shall be equal to a minimum of 50% of RPZ. Five feet (5'-0") from trunk of tree or clump of trees is allowed on one side of the tree with approved alternative construction methods only. Full RPZ is required on the other side, subject to approval from City Arborist/Tree Inspector. Refer to detail 1#4/TP-3105 for tree barricade fencing.
- Protected & heritage trees shall be removed only under the following situations:
 - Approval from City Arborist (207-0278) is required for removal of any significant/heritage tree.
 - Cut or fill greater than three (3") inches to take place beneath the dripline of a tree exceeds 50% of the Root Protection Zone (RPZ).
 - Construction of a building or other improvements require the removal of more than 30% of the viable portion of a tree crown.
 - Poor condition of tree.
- No equipment, vehicles or materials shall be operated or stored within the root protection zone. No clean-out areas will be constructed so that the material will be in or migrate to the root protection zone.
- Roots or branches in conflict with construction shall be cut cleanly according to proper pruning methods. See detail 3/TP-3305. All Oak wounds shall be painted within 30 minutes to prevent Oak Wilt Infection.
- Exposed roots shall be covered at the end of the work day using techniques such as covering with soil, mulch or net burlap.
- All woody material to be removed may be chipped into mulch & distributed on site within RPZ's at trees adjacent to construction & natural areas.
- All costs for repair and replacement of preserved trees damaged by construction operations of lack of adequate protection during construction shall be borne by Contractor. Mitigation shall be at an inch per inch ratio.
- Existing protected trees on a project are to be maintained in a healthy condition at all times. This includes irrigating, fertilizing, pruning and other maintenance as needed on the project. Trees that die within twelve (12) months shall be replaced at a ratio of inch per inch for significant trees and at 3:1 for heritage trees per the Unified Development Code 35-523, Table 523-2 "Mitigation."
- Contractor is responsible for providing a licensed tree maintenance professional throughout the project.
- All disturbed areas to receive hydroseed or sod according to drawings. Repair and replace existing irrigation as necessary.

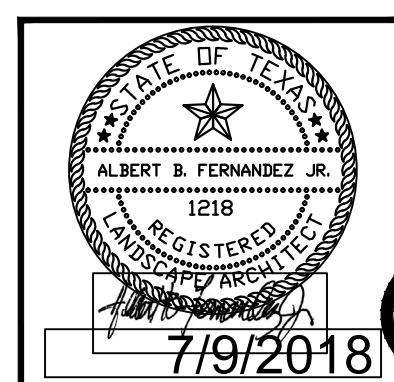
TREE PRESERVATION NOTES DONE BY OTHERS



MARK	DATE	DESCRIPTION
A	7/24/2018	ADDENDUM
B	8/8/2018	ADDENDUM No. 6
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SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1
DETAILS

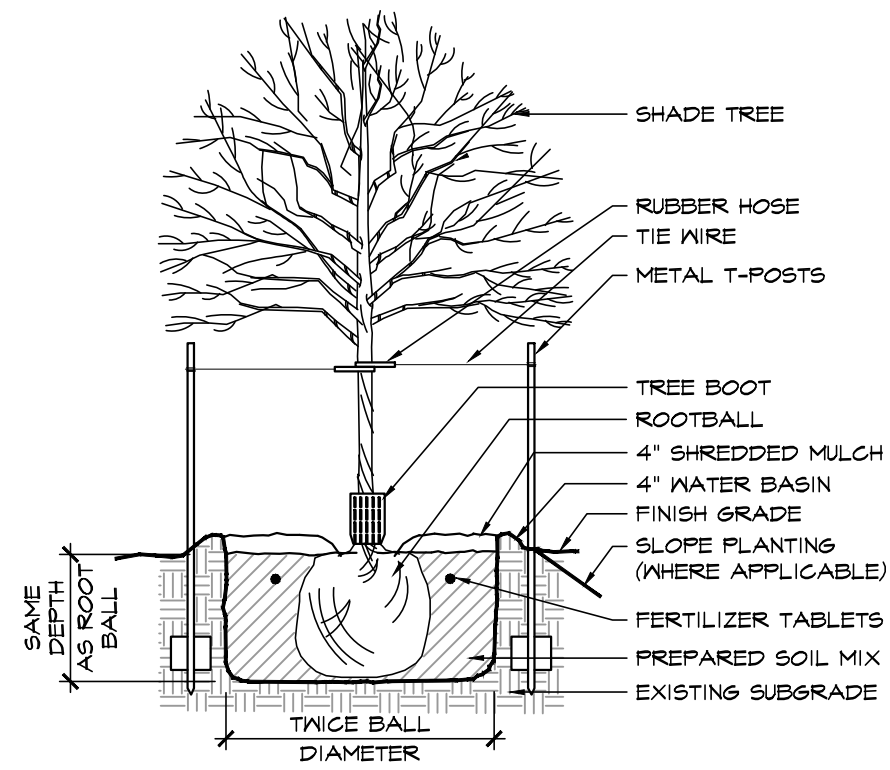
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DESN:
DRWN:
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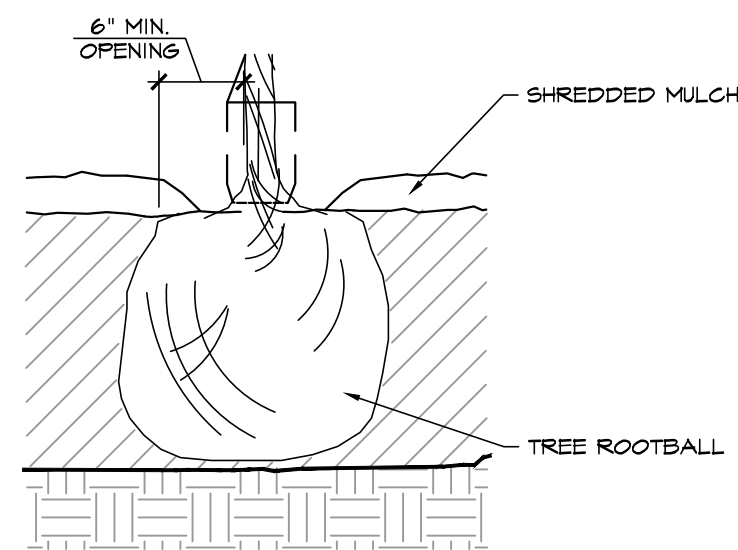
L-105

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TREE NUMBER	DIAMETER BREAST HEIGHT	SPECIES	FIELD NOTE
1 UNKNOWN	35.5	LIVE OAK	PRUNE TREE
1999	19	LIVE OAK	PRUNE TREE
1998	30	LIVE OAK	PRUNE TREE
2 UNKNOWN	45	TX MT LAUREL	PRUNE TREE
3 UNKNOWN	11	LIVE OAK	PRUNE TREE
4 UNKNOWN	12	LIVE OAK	PRUNE TREE
T701	23	LIVE OAK	PRUNE TREE
T702	26	LIVE OAK	PRUNE TREE
T703	14	LIVE OAK	PRUNE TREE
T708	11	LIVE OAK	REMOVE TREE
T719	15	LIVE OAK	PRUNE TREE
T720	20	LIVE OAK	PRUNE TREE
T721	14	LIVE OAK	PRUNE TREE
T722	16	LIVE OAK	REMOVE TREE
T723	13	LIVE OAK	REMOVE TREE
T724	10	LIVE OAK	REMOVE TREE
T725	13	LIVE OAK	REMOVE TREE
T726	8	LIVE OAK	REMOVE TREE
T727	9	LIVE OAK	PRUNE TREE
T728	11	LIVE OAK	PRUNE TREE
T729	11	LIVE OAK	PRUNE TREE
T730	22	LIVE OAK	REMOVE TREE
T737	16	LIVE OAK	PRUNE TREE
T741	12	LIVE OAK	PRUNE TREE
T744	20	LIVE OAK	PRUNE TREE
T742	7	LIVE OAK	PRUNE TREE
T748	11	LIVE OAK	PRUNE TREE
T749	27	LIVE OAK	PRUNE TREE
5 UNKNOWN	26	LIVE OAK	PRUNE TREE
6 UNKNOWN	34	LIVE OAK	REMOVE TREE
7 UNKNOWN	17	LIVE OAK	PRUNE TREE
8 UNKNOWN	17	LIVE OAK	PRUNE TREE
9 UNKNOWN	13	LIVE OAK	PRUNE TREE
10 UNKNOWN	12	LIVE OAK	PRUNE TREE
11 UNKNOWN	12	LIVE OAK	PRUNE TREE
12 UNKNOWN	16	LIVE OAK	PRUNE TREE
13 UNKNOWN	14	LIVE OAK	REMOVE TREE
14 UNKNOWN	13	LIVE OAK	PRUNE TREE
15 UNKNOWN	21	LIVE OAK	REMOVE TREE



1 SHADE TREE PLANTING
NOT TO SCALE



2 TREE MULCH DETAIL
NOT TO SCALE

PLANTING NOTES: (Keyed Notes)

- Landscape contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Landscape contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from inspection approval and will require the contractor to install/repair work as required for approval at the cost of the contractor. Landscape contractor is to inform Landscape Architect of the start date of work.
- The landscape contractor is to notify Texas One Call (800-245-4545) and 800 DIG TESS (800-344-8377) 12 hours prior to any excavation. Landscape contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. Landscape contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not Texas One Call is notified.
- Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- The Contractor shall be responsible for any coordination with subcontractors as required to accomplish planting operations.
- If conflicts arise between size of areas and plans, Contractor is to contact Landscape Architect for resolution. Failure to make such conflicts known will result in Contractor's liability to relocate the materials.
- See specifications for planting requirements, materials and execution.

Till 4" of Landscape Soil Mix into new bed areas. Landscape Soil Mix shall be Gardenville Landscape 4-way mix (651-6115) or equal.

Provide 1/8" x 4" steel edging between all bed areas and lawn areas.

Spray all existing grass in new bed areas with Roundup.

Groundcover shall be planted as indicated on plan. Groundcovers shall be triangularly spaced. All groundcovers shall be held back 6" from edge of new shrub plantings.

Install 4" of shredded pine bark mulch in all bed areas.

PLANT SCHEDULE:

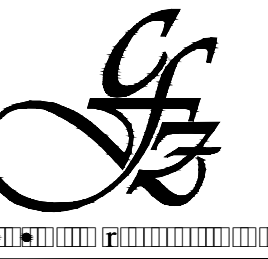
KEY	SCIENTIFIC NAME	COMMON NAME	CONDITION	REMARKS
Trees				
RB	Cercis texensis	Texas Redud	15 gal.	6'-8'ht., 4'-5' sprd, multi-trun
MTL	Sophora secundiflora	Texas Mt. Laurel	B & B	5'-6' ht. 4'-5' sprd Multi-trun
LO	Quercus virginiana	Live Oa	Container	2"-2 1/2" cal. single trun 10'-12' ht. 4'-6' sprd
Miscellaneous				
		Top Soil	CY	
		Mulch	CY	

6

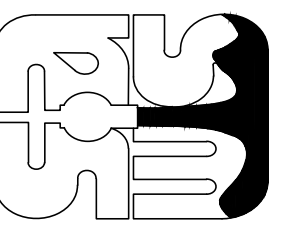
TETRA TECH
Texas Registration No. F-3924



www.tetra-tech.com
700 N. St Mary's, Suite 300
San Antonio, TX 78205
Ph (210) 298-7900 Fax (210) 226-6497
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SAN ANTONIO WATER SYSTEM



BY

MARK	DATE	DESCRIPTION
A	7/24/2018	ADDENDUM
B	8/8/2018	ADDENDUM No. 6

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
SEGMENT 5-1

DETAILS



PROJ: 200-09308-18001
DESN:
DRWN:
CHKD:

L-106