



**SAN ANTONIO WATER SYSTEM
LIFT STATION ELIMINATION PHASE II – LS #73 PROJECT
SAWS PROJECT NO. 09-2507
SOLICITATION NO. CO-00065-SM**

ADDENDUM NO. 1

May 26, 2016

TO BIDDER OF RECORD:

The following changes, additions, and/or deletions are hereby made as part of the Contract Documents and/or Plans for the Lift Station Elimination Phase II – #73 Project, for the San Antonio Water System, San Antonio, Texas, dated May 2016, as fully and completely as if the same were set forth therein.

1.0 Modifications to PLANS

- A. **REPLACE – Diversion Gravity Main Plan & Profile 3 of 7, Sheet C4, with revised attached Sheet C4.**
- B. **REPLACE – Diversion Gravity Main Plan & Profile 5 of 7 Sheet C6, with revised attached Sheet C6**
- C. **REPLACE – Tree Protection Plan 1 of 2 Sheet TP1, with revised attached Sheet TP1**
- D. **REPLACE – Tree Protection Plan 2 of 2 Sheet TP2, with revised attached Sheet TP2**

2.0 Questions and Answers

Q1:

Ground conditions can greatly affect the means and methods needed for successful pipe installation. In order to provide competent pricing, geotechnical information provided by the Owner is used for to make baseline assumptions when considering appropriate equipment and personnel needed to perform the work. Will the Owner be providing a geotechnical report prior to the bid so that competent pricing can be prepared?

Response:

A geotechnical report was not prepared for this project. No geotechnical report will be provided. Refer to Instruction to Bidders Part 5(b).

Q2:

The vast majority of the pipe shown in the “STEEL CASING BY BORE” can be open cut without undue risk to surrounding surface features. Can some of this work be installed via open cut with or without casing? Please explain.

Response:

Prepare the bid in accordance with what is shown in the Contract Documents.

Q3:

If trenchless installation is required, is casing required? Please explain.

Response:

Yes, 24-inch steel casing is required as shown on plans.



Kimley-Horn and Associates, Inc.
Texas Registered Engineering Firm F-928
601 NW Loop 410, Ste. 350
San Antonio, TX 78216

Date

Signature of Bidder

Appended hereto and part of Addendum No. 1

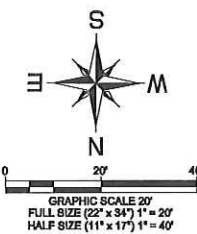
1. PLANS – Diversion Gravity Main Plan & Profile 3 of 7, Sheet C4
2. PLANS – Diversion Gravity Main Plan & Profile 5 of 7, Sheet C6
3. PLANS – Tree Preservation Plan 1 of 2, Sheet TP1
4. PLANS – Tree Preservation Plan 2 of 2, Sheet TP2

END OF ADDENDUM NO. 1

NOTES:

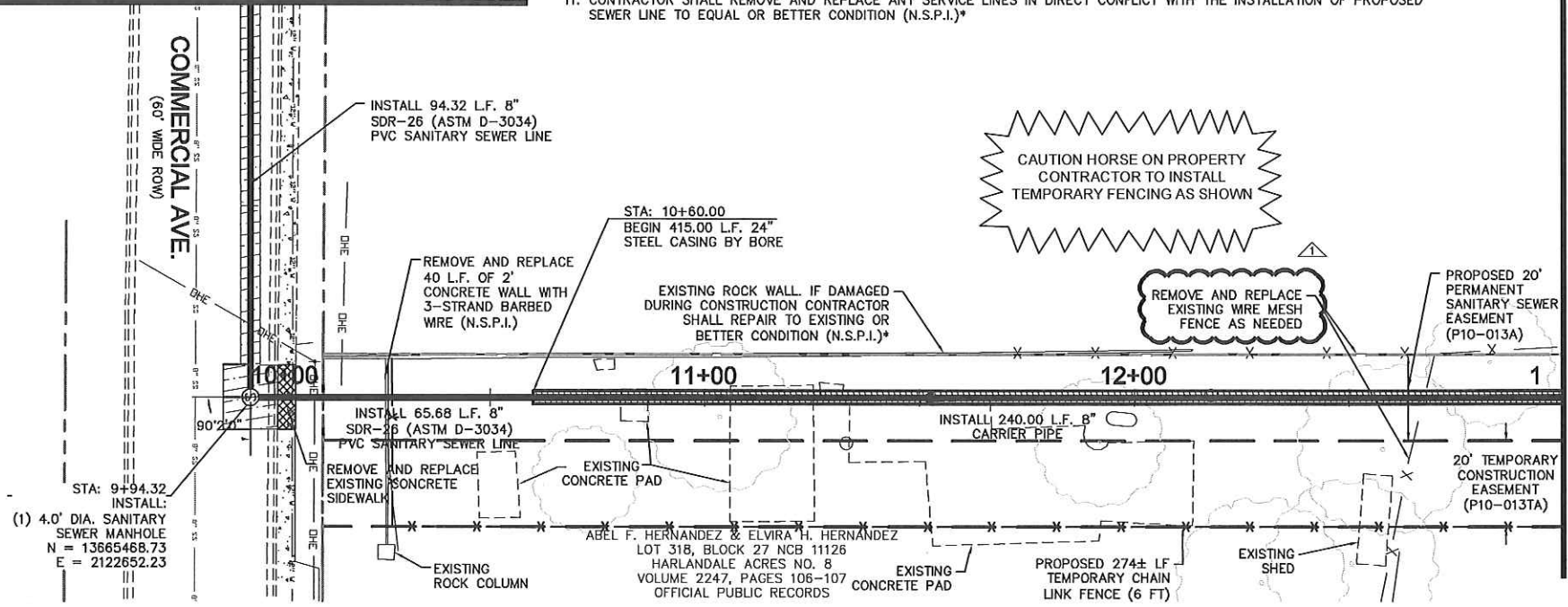
- TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE WORKING AREA IN ORDER TO IMPLEMENT THE CONTRACTOR'S TRENCH AND EXCAVATION PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATION, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
- LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN IN PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AND TAPS AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION. (N.S.P.I.)*

- CONTRACTOR SHALL KEEP STREETS CLEAN AND PROVIDE DUST CONTROL AT ALL TIMES. (N.S.P.I.)*
- CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. NO EXCAVATED MATERIALS SHALL BE PILED ON THE GROUND.
- WHEN NOT WORKING, CONTRACTOR SHALL PROTECT TRENCH AND EXCAVATIONS BY COVERING WITH STEEL PLATES WITH A MINIMUM THICKNESS OF 1/2-INCH. (N.S.P.I.)*; UNLESS TRENCHES ARE COMPLETELY COVERED AND COMPACTED AT THE END OF THE WORK DAY. BORING PIT AND RECEIVING PIT SHALL BE PROTECTED WITH TEMPORARY CHAIN LINK FENCE. (N.S.P.I.)*
- CONTRACTOR SHALL PROTECT TREES IN ACCORDANCE TO CITY OF SAN ANTONIO REQUIREMENTS. (N.S.P.I.)*
- CONTRACTOR SHALL SUBMIT BORING PLAN TO INSPECTOR AND ENGINEER FOR REVIEW AND APPROVAL. (N.S.P.I.)*
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE AND TO INSPECTOR'S SATISFACTION. (N.S.P.I.)*
- CONTRACTOR SHALL PROTECT EXISTING SIDEWALK. ANY SIDEWALK DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER (N.S.P.I.)* UNLESS OTHERWISE SHOWN ON PLANS.
- CONTRACTOR SHALL USE CAUTION WHEN WORKING IN OR AROUND PRIVATE PROPERTY. NO MATERIAL OR EQUIPMENT SHALL BE STAGED ON EXISTING CONCRETE SLABS.
- CONTRACTOR SHALL REMOVE AND REPLACE ANY SERVICE LINES IN DIRECT CONFLICT WITH THE INSTALLATION OF PROPOSED SEWER LINE TO EQUAL OR BETTER CONDITION (N.S.P.I.)*



MATCH LINE STA. 9+00 SHEET C3

MATCH LINE STA. 13+00 SHEET C5



NOTE
REFERENCE TREE PROTECTION
PLAN PRIOR TO BEGINNING
CONSTRUCTION.

!! WARNING !!
CONTRACTOR IS TO VERIFY
PRESENCE AND EXACT LOCATION
OF ALL UTILITIES PRIOR TO
CONSTRUCTION.

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB	LF	100
103.3	REMOVE CONCRETE SIDEWALKS AND DRIVEWAYS	SF	62
202.1	PRIME COAT	GAL	14
203.1	TACK COAT	GAL	7
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3\"/>		

* NO SEPARATE PAY ITEM (N.S.P.I.)
FULL SIZE (22\"/>

LEGEND

GAS MAIN	— G —	EXISTING EASEMENT	— — — —
PROP. SAN. SWR. LINE	— S —	PROPOSED EASEMENT	— — — —
EXISTING SAN. SWR.	— 8\"/>		



Kimley»Horn
Texas Registered Firm, No. 928
45 NE Loop 410 Suite 890 San Antonio, TX 78216
Tel No. 210-541-9166 Fax No. 210-541-8699

No.	Revision	By	Date
1	ADDENDUM NO. 1	VRS	05/24/16



LIFT STATION ELIMINATION
PROJECT PHASE II - LS 73
SHEET
DIVERSION GRAVITY MAIN
PLAN & PROFILE 3 OF 7

DATE: MAY 2016	SAWS PROJECT NO. 09-2507	SHEET NO. C4
DESIGN: VRS	KHA PROJECT NO. 068665006	
DRAWN: EAD		
CHECKED: RJJ/FCW		

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NOTES:

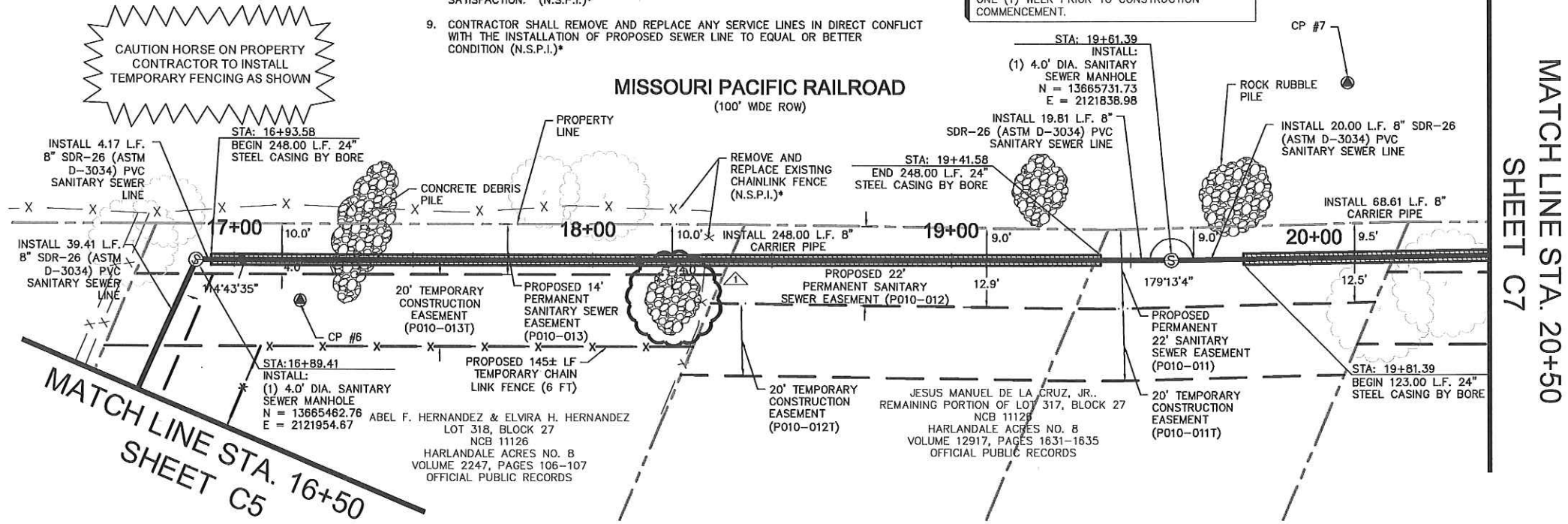
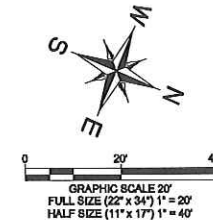
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TRENCH EXCAVATION SAFETY PROCEDURE

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CONTRACTOR SHALL CONTACT PROPERTY OWNER ONE (1) WEEK PRIOR TO CONSTRUCTION COMMENCEMENT.



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
507.2	TEMPORARY CHAIN LINK WIRE FENCE - (6' HIGH)	LF	145
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	83.39
848	8" SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (10'-14')	LF	4.66
848	8-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (14'-18')	LF	14.51
848	8-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (18'-22')	LF	64.22
852.1	SANITARY SEWER MANHOLE (0' TO 6')	EA	2
852.2	EXTRA DEPTH MANHOLE (>6')	VF	24.00
856.1	JACKING, BORING, OR TUNNELING - 24"	LF	316.61
856.2	8" CARRIER PIPE FOR JACKING, BORING, TUNNELING	LF	316.61
856.3	CASING OR LINER - 24"	LF	316.61
866	SANITARY SEWER TELEVISION INSPECTION (8"-15")	LF	400

!! WARNING !!
CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

NOTE
REFERENCE TREE PROTECTION PLAN PRIOR TO BEGINNING CONSTRUCTION.

NO SEPARATE PAY ITEM (N.S.P.I.)
FULL SIZE (22" x 34") 1" = 20' HORIZONTAL 1" = 40' VERTICAL
HALF SIZE (11" x 17") 1" = 40' HORIZONTAL 1" = 10' VERTICAL

LEGEND

GAS MAIN	G	EXISTING EASEMENT	---
PROP. SAN. SWR. LINE	—S—	PROPOSED EASEMENT	---
EXISTING SAN. SWR.	—S—	EXISTING WATER LINE	—W—
EXISTING PDWER P.D.L.E.	—P—	EXISTING FORCE MAIN	—F—
EXISTING OVERHEAD ELEC. LINE	—O—	EXISTING GAS LINE	—G—
EXISTING UNDERGROUND ELEC. LINE	—U—	PROPERTY LINE	---
EXISTING TELEPHONE/FIBER LINE	—T—	MILL & OVERLAY HMA PAVEMENT	▨
EXISTING UNDERGROUND CABLE	—C—	CUT & REPLACE ASPHALT-TREATED BASE	▨
		CUT & REPLACE CONCRETE SIDEWALK	▨



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SAN ANTONIO WATER SYSTEM

LIFT STATION ELIMINATION
PROJECT PHASE II - LS 73
SHEET

DIVERSION GRAVITY MAIN
PLAN & PROFILE 5 OF 7

DATE: MAY 2016	SAWS PROJECT NO. 09-2507	SHEET NO. C6
DESIGN: VRS	KHA PROJECT NO. 068665006	
DRAWN: EAD		
CHECKED: RJJ/FCW		

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TREE INVENTORY

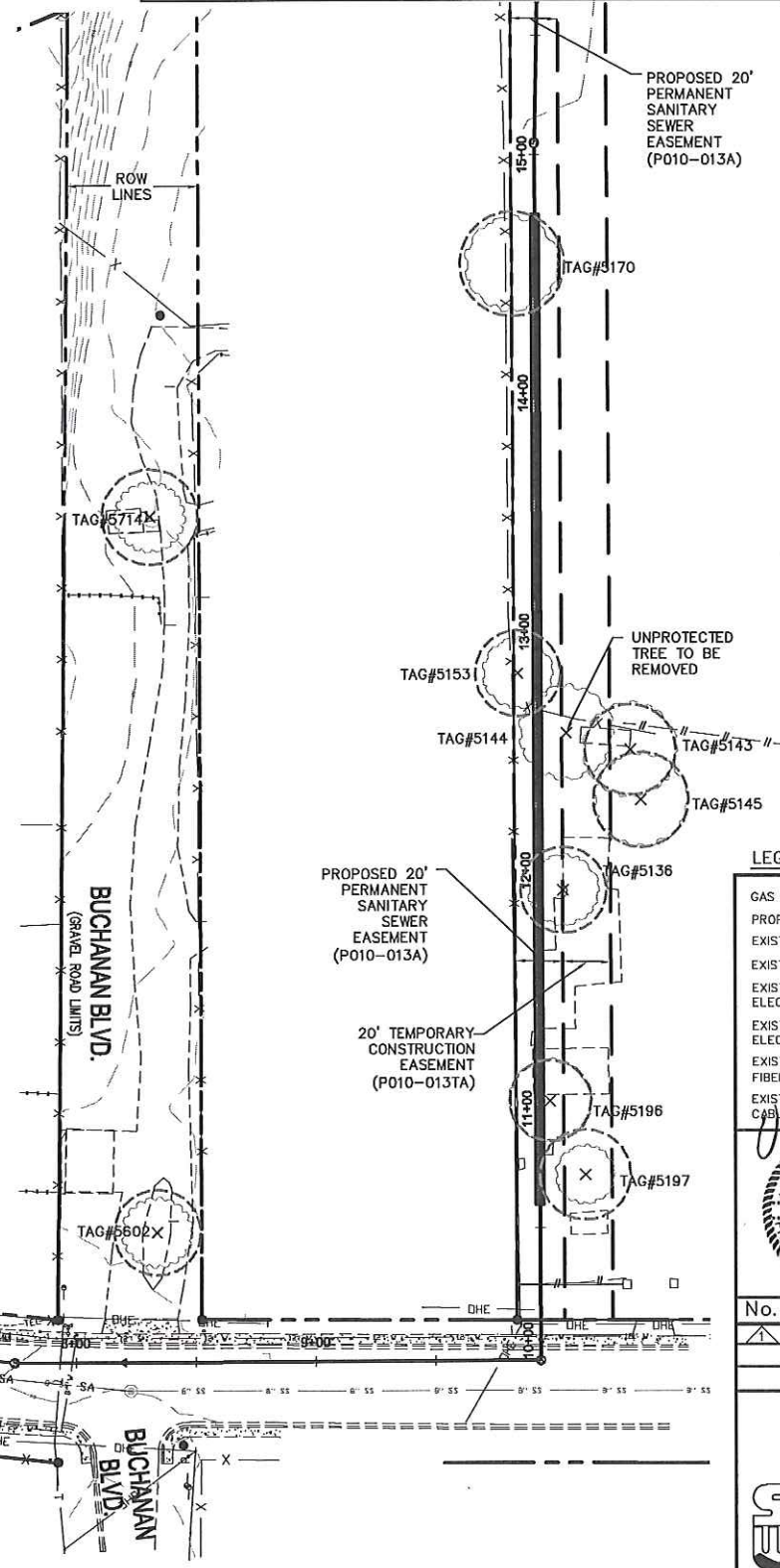
Tag #	Species	Tree Code	Size (inches)	Heritage (Y/N)	Save (Y/N)	Shade Value (sq. feet)	Exempt Code	Understory Species*		Significant Tree		Significant Tree**		Heritage 3:1		Heritage 1:1											
								Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved										
5136	Mesquite	S2	18		Y	275							18														
5143	Mesquite	S2	19		Y	275							19														
5144	Mesquite	S2	21		N	275					21																
5145	Mesquite	S2	20		Y	275							20														
5153	Mesquite	S2	18		Y	275							18														
5170	Mesquite	S2	22		Y	275							22														
5106	Chinaberry	NN	17		Y	875							17														
5197	Mesquite	S2	19		Y	275							19														
5206	Hackberry	S2	22		Y	875							22														
5207	Hackberry	S2	18		Y	875							18														
5602	Mesquite	S2	18		Y	275							18														
5714	Mesquite	S2	20		Y	275							20														
5754	Mesquite	S2	22		Y	275							22														
5788	Hackberry	S2	16		Y	875							16														
5789	Mesquite	S2	15		Y	275							15														
5807	Chinaberry	NN	12		Y	275							12														
5808	Hackberry	S2	10		Y	875							10														
5808	Hackberry	S2	12		Y	875							12														
5848	Hackberry	S2	10		N	875					10																
5950	Hackberry	S2	9		N	875					9																
5957	Hackberry	S2	10		N	875					10																
5980	Hackberry	S2	8		Y	875						8															
5988	Mesquite	S2	18		N	275					18																
6008	Mesquite	S2	10		Y	275							10														
6009	Mesquite	S2	28	Y	Y	275										28											
6037	Mesquite	S2	10		Y	275							10														
6042	Mesquite	S2	10		N	275					10																
6062	Mesquite	S2	8		N	275					8																
6083	Mesquite	S2	20		N	275					20																
6098	Mesquite	S2	18		N	275					18																
6092	Mesquite	S2	18		Y	275							18														
Sub. Tot. Inches=								0	0	0	0	124	344	0	0	0	26										
Total inches by category=								0	0	0	0	468	468	0	0	0	26										
Preservation percentage=								100%				Significant Preservation				74%				Heritage Preservation				100%			
Mitigation required (Commercial)=								0				Commercial (inches)				0				Heritage Mitigation (inches)				0			
Mitigation required (Residential)=								0				Residential (inches)				0											
No category to fall below 20% preservation;								Exemption Codes																			
Preserved: Tree to remain that meets root protection zone requirements described in section 25-523 of the UDC.								1- Tree is dead																			
Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation								2- Tree is in poor health																			
* Sm all species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - mitigated at 1:1 for Heritage								3- Tree is determined to be exempt by COSA (Max Bird 207-0278)																			
** Ashe Juniper, Huicache, Mesquite, Arizona Ash, Hackberry protected at 10' dbh and mitigated at 1:1 for Heritage								Additional Inches Needed to								n											



GRAPHIC SCALE 40'
FULL SIZE (22" x 34") 1" = 40'
HALF SIZE (11" x 17") 1" = 80'

!! WARNING !!
CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

MATCH LINE SHEET TP2



LEGEND

- NON-SIGNIFICANT TREE (NOT PROTECTED)
- ⊙ HERITAGE TREE (WITHIN CONSTRUCTION AREA)
- △ SIGNIFICANT TREE--TYPE I (WITHIN CONSTRUCTION AREA)
- × SIGNIFICANT TREE--TYPE II (WITHIN CONSTRUCTION AREA)
- UNDERSTORY (WITHIN CONSTRUCTION AREA)
- ROOT PROTECTION ZONE (PROTECTED TREES ONLY)

SEE SHEET TP3 FOR TREE PROTECTION DETAILS

LEGEND

- GAS MAIN — G — EXISTING EASEMENT — - - - -
- PROP. SAN. SWR. LINE — S — PROPOSED EASEMENT — - - - -
- EXISTING SAN. SWR. — 8" SS — EXISTING WATER LINE — W —
- EXISTING POWER POLE — ● — EXISTING FORCE MAIN — FM —
- EXISTING OVERHEAD ELEC. LINE — DHE — EXISTING GAS LINE — " G —
- EXISTING UNDERGROUND ELEC. LINE — UGE — PROPERTY LINE — - - - -
- EXISTING TELEPHONE/FIBER LINE — T — MILL & OVERLAY —
- EXISTING UNDERGROUND CABLE — UGC — ASPHALT-TREATED BASE —
- CUT & REPLACE CONCRETE SIDEWALK —

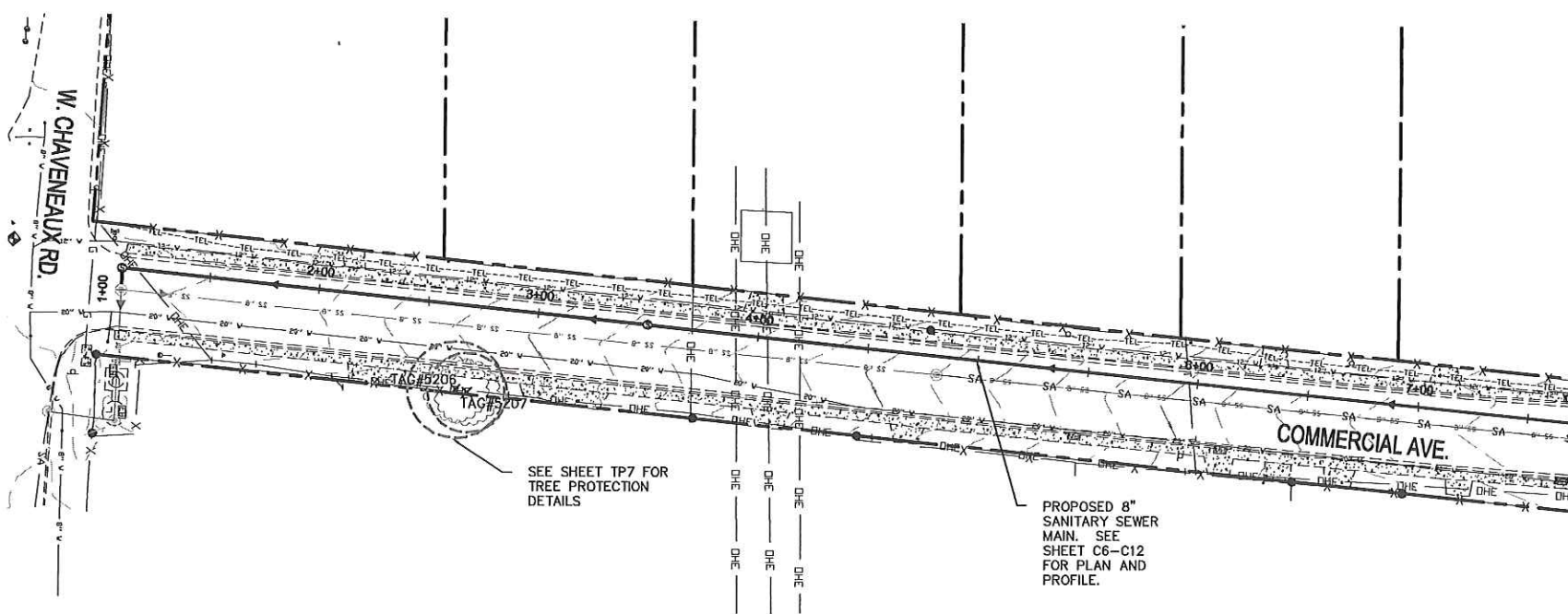
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No.	Revision	By	Date
ADDENDUM NO. 1		VRS	05/24/16

SAN ANTONIO WATER SYSTEM

LIFT STATION ELIMINATION PROJECT PHASE II - LS 73
SHEET
TREE PROTECTION PLAN 1 OF 2

DATE:	SAWS PROJECT NO.	SHEET NO.
MAY 2016	09-2507	TP1
DESIGN: VRS	KHA PROJECT NO.	
DRAWN: EAD	068665006	
CHECKED: RJJ/FCW		



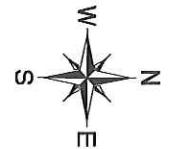
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TREE INVENTORY

Tag #	Species	Tree Code	Size (inches)	Heritage (Y/N)	Save (Y/N)	Shade Value (sq. feet)	Exempt Code	Understory Species*		Significant Tree		Significant Tree**		Heritage 3:1		Heritage 1:1	
								Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved
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5808	Hackberry	S2	12		Y	875						12					
5946	Hackberry	S2	10		N	875				10							
5950	Hackberry	S2	9		N	875				9							
5957	Hackberry	S2	10		N	875				10							
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5988	Mesquite	S2	18		N	275				18							
6008	Mesquite	S2	10		Y	275						10					
6009	Mesquite	S2	26	Y	Y	275										26	
6037	Mesquite	S2	10		Y	275						10					
6052	Mesquite	S2	10		N	275				10							
6052	Mesquite	S2	8		N	275				8							
6053	Mesquite	S2	20		N	275				20							
6086	Mesquite	S2	18		N	275				18							
6092	Mesquite	S2	18		Y	275						18					
Sub. Tot. Inches=								0	0	0	0	124	344	0	0	0	26
Total inches by category=								100%		Significant Preservation		74%		Heritage Preservation		100%	
Preservation percentage=								Mitigation required (Commercial) =		Commercial (inches)		Heritage Mitigation (inches)		0			
Mitigation required (Residential) =								Residential (inches)		0		0		0			

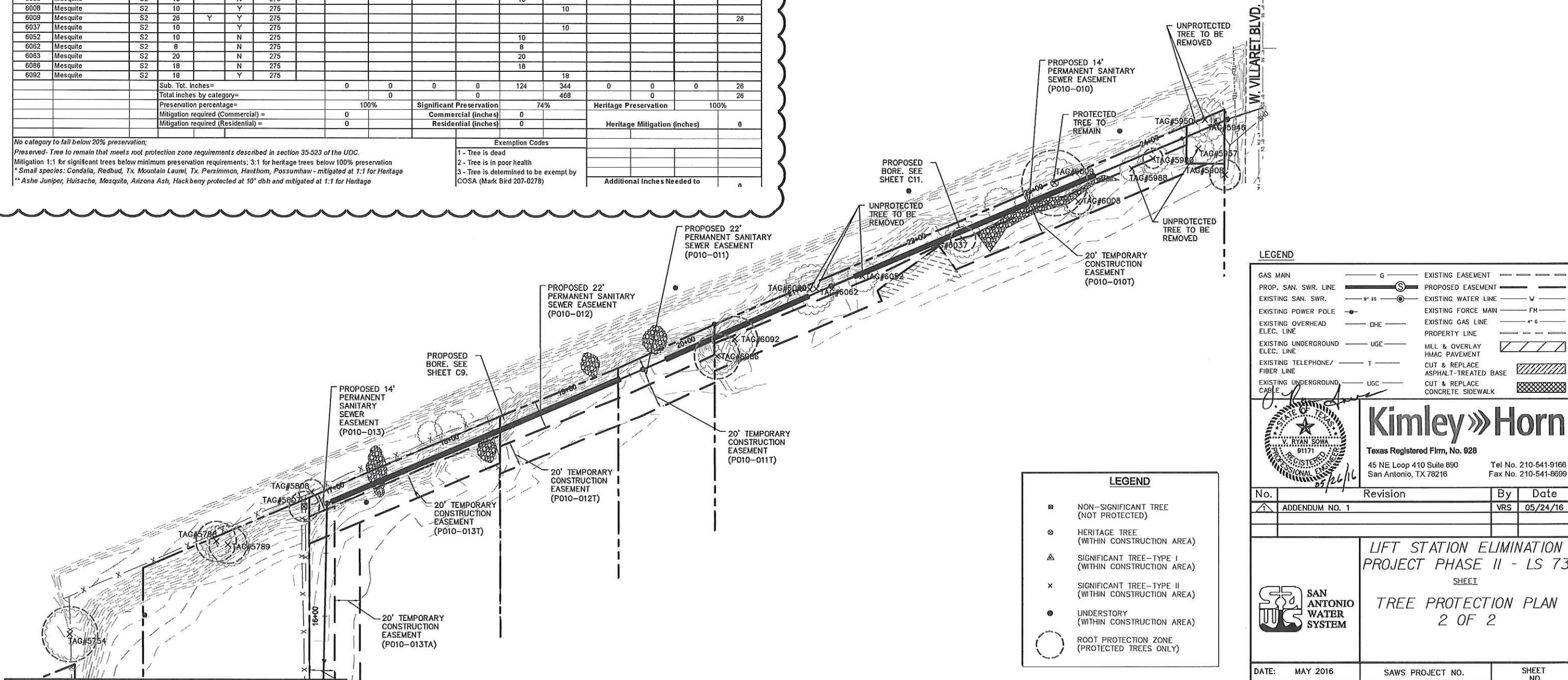
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 ** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for Heritage

Exemption Codes
 1 - Tree is dead
 2 - Tree is in poor health
 3 - Tree is determined to be exempt by COSA (Mark Bird 207-0278)
 Additional Inches Needed to _____



GRAPHIC SCALE 40'
 FULL SIZE (22" x 34") 1" = 40'
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 OF ALL UTILITIES PRIOR TO
 CONSTRUCTION.



LEGEND

GAS MAIN	— G —	EXISTING EASEMENT	---
PROP. SAN. SWR. LINE	— S —	PROPOSED EASEMENT	---
EXISTING SAN. SWR.	— SS —	EXISTING WATER LINE	— W —
EXISTING POWER POLE	— P —	EXISTING FORCE MAIN	— FM —
EXISTING OVERHEAD ELEC. LINE	— OHE —	EXISTING GAS LINE	— G —
EXISTING UNDERGROUND ELEC. LINE	— UGE —	PROPERTY LINE	---
EXISTING TELEPHONE/FIBER LINE	— T —	MILL & OVERLAY HMA PAVEMENT	▨
EXISTING UNDERGROUND CABLE	— UGC —	CUT & REPLACE ASPHALT-TREATED BASE	▨
		CUT & REPLACE CONCRETE SIDEWALK	▨

LEGEND

- NON-SIGNIFICANT TREE (NOT PROTECTED)
- ⊙ HERITAGE TREE (WITHIN CONSTRUCTION AREA)
- △ SIGNIFICANT TREE—TYPE I (WITHIN CONSTRUCTION AREA)
- × SIGNIFICANT TREE—TYPE II (WITHIN CONSTRUCTION AREA)
- UNDERSTORY (WITHIN CONSTRUCTION AREA)
- ROOT PROTECTION ZONE (PROTECTED TREES ONLY)

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No.	Revision	By	Date
ADDENDUM NO. 1		VRS	05/24/16

SAN ANTONIO WATER SYSTEM

LIFT STATION ELIMINATION
 PROJECT PHASE II - LS 73
 SHEET
 TREE PROTECTION PLAN
 2 OF 2

DATE: MAY 2016	SAWS PROJECT NO. 09-2507	SHEET NO. TP2
DESIGN: VRS	KHA PROJECT NO.	
DRAWN: EAD	068665006	
CHECKED: RJJ/FCW		

MATCH LINE SHEET TP1

SEE SHEET TP3 FOR TREE PROTECTION DETAILS

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