		HERITAGE TREES WIT			
TAG #	SIZE (IN)	SPECIES	TO BE	INCHES	INCHES
TAG #	SIZE (IIV)	SPECIES	PRESERVED	PRESERVED	REMOVED
5614	36	UNKNOWN	YES	36	0
5627	25	WILLOW	YES	25	0
7001	24	COTTONWOOD	YES	24	0
7022	47	COTTONWOOD	YES	47	0
35656	24	UNKNOWN	YES	24	0
5612	28	WILLOW	NO	0	28
5617	28	WILLOW	NO	0	28
5624	27	WILLOW	NO	0	27
5626	40	WILLOW	NO	0	40
5628	27	WILLOW	NO	0	27
7004	40	COTTONWOOD	NO	0	40
122191	50	EASTERN COTTONWOOD	NO	0	50
122300	30	EASTERN COTTONWOOD	NO	0	30
122305	28	ASH	NO	0	28
122315	50	EASTERN COTTONWOOD	NO	0	50
122316	30	EASTERN COTTONWOOD	NO	0	30
5623	31	WILLOW	NO	0	31
122309	26	EASTERN COTTONWOOD	NO	0	26
	591			156	435

TREE CANOPY				
INSIDE FLOODPLA	IN			
TOTAL CANOPY:	607,918			
CANOPY REQUIRED TO BE				
SAVED (80%):	486,334			
REMOVED:	251,145			
PRESERVED:	356,773			
TOTAL % PRESERVED:	59%			
30' FLOODPLAIN BUFFER				
TOTAL CANOPY:	18,619			
CANOPY REQUIRED TO BE				
SAVED (80%):	14,895			
REMOVED:	0			
PRESERVED:	18,619			
TOTAL % PRESERVED:	100%			
OUTSIDE FLOODPLAIN (UPLAND)			
TOTAL CANOPY:	1,300			
CANOPY REQUIRED TO BE				
SAVED (25%):	325			
REMOVED:	0			
PRESERVED:	1,300			
TOTAL % PRESERVED:	100%			
*ALL AREAS IN SQFT				

CANOPY WITHIN FLOODF	PLAIN	
TOTAL CANOPY	= 607,918 SF	
CANOPY REQUIRED TO BE PRESERVED (80%)	= 486,334 SF	
CANOPY PRESERVED	= 356,773 SF	
CANOPY AREA REQUIRED TO BE MITIGATED	= 129,561 SF	
CANOPY PRESERVATION	= 356,773 SF ÷ 607,918 SF * 100% = 58.7%	

MITIGATION REQUIRED FOR CANOPY WITHIN FLOODPLAIN

CANOPY WITHIN FLOODPLAIN MITIGATION REQUIREMENTS*

NUMBER OF TREES REQUIRED TO BE PLANTED	= 129,561 SF ÷ (875 SF/TREE) = 148 TREES
INCHES OF CANOPY REQUIRED TO BE MITIGATED	= 148 TREES * 16.7 INCHES = 2,473 INCHES
CALCULATED MITIGATION FEE	= 2,473 INCHES * \$200 = \$494,554

TOTAL MITIGATION FEE

CALCULATED CANOPY MITIGATION FEE	= \$494,554	
CALCULATED HERITAGE	= \$249,800	

CALCULATED HERITAGE MITIGATION FEE	=	\$249,80
TOTAL MITIGATION FEE	=	\$744,35

= \$744,354

MITIGATION MEASURE OF RE-SEEDING DISTURBED AREA WITHIN THE FLOODPLAIN AND ADJACENT RIPARIAN BUFFER RESULTS IN A 50% REDUCTION OF MITIGATION FEE

ADJUSTED MITIGATION FEE = \$744,354 ÷ 2 = \$372,177

		NON-NATIVE TREES							
TAG #	SIZE	SPECIES	TO BE PRESERVED						
5629	30	CHINESE TALLOW	NO						
5630	27	CHINESE TALLOW	NO						
21640	25	CHINESE TALLOW	NO						
21645	24	CHINESE TALLOW	NO						

HERITAGE

PRESERVED HERITAGE INCHES	= 156" PRESERVED
REMOVED HERITAGE INCHES	= 435" REMOVED
TOTAL HERITAGE INCHES	= 591" TOTAL
HERITAGE PRESERVATION	= 156" ÷ 591" × 100% = 26%

MITIGATION REQUIRED FOR HERITAGE TREES

HERITAGE WITHIN FLOODPLAIN MITIGATION REQUIREMENTS*

ASH TREE MITIGATION FEE	= 28" * 1 * \$200 = \$5,600
HERITAGE TREE MITIGATION FEE	= (435" - 28") * 3 * \$200 = \$244,200
CALCULATED MITIGATION FEE	= \$5,600 + \$244,200 = \$249,800
*MITICATION REQUIREMENTS CA	I CULATED PER THE 2010 TREE ORDINANCE

*MITIGATION REQUIREMENTS CALCULATED PER THE 2010 TREE ORDINANCE

HERITAGE TREES WITHIN FLOODPLAIN

LEGEND

CANOPY TO BE REMOVED INSIDE FLOODPLAIN CANOPY TO BE PRESERVED INSIDE FLOODPLAIN CANOPY TO BE REMOVED INSIDE 30' BUFFER CANOPY TO BE PRESERVED INSIDE 30' BUFFER CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN

HERITAGE TREE TO BE REMOVED

HERITAGE TREE TO BE PRESERVED

HERITAGE TREE NON-NATIVE

PROPOSED SAN. SEWER PERMANENT SEWER ESMT TEMP CONSTRUCTION ESMT __ · ___ EXISTING SAWS EASEMENT 100-YEAR FLOODPLAIN 30' FLOODPLAIN BUFFER PROPERTY LINE

AREA TO BE SEEDED WITH NATIVE SEED MIXTURE

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			DATE: JUNE 2019	2019		
SAWS JUB NU. 15-4508		I DAPE-DAWSON	DESIGNED BY: MP	Y: MP		PAF Job 39
W-1 LEON CREEK: HWY 151 TO HWY 90			DRAWN BY: MA	MA		No
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IREE STAND DELINEATION PLAN						ON
		There from the contraction (size). There is the from the transmission of the second				

Sheet TP-1

67 of 81

TOTAL DISTURBED AREA

DISTURBED AREA

TOTAL AREA TO BE REVEGETATED (SEEDING AREA)

RECLAMATION CRITERIA:

A. RE-SEEDING 602,743 SF OF DISTURBED AREA WITHIN THE FLOODPLAIN AND ADJACENT RIPARIAN BUFFER

= 602,743 SF

= 602,743 SF

B. RECLAIMING DISTURBED AREAS BY DRILL SEEDING WITH A NATIVE SEED MIX AND ENSURING 85% ESTABLISHMENT

GENERAL NOTES

1. ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO ITEM No. 802. TREE PRUNING, SOIL AMENDING AND FERTILIZATION, UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 802. TREES TO RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 802 ARE SHOWN ON TREE PROTECTION TABLE ON THIS SHEET.

2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.

3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.

4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.

5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR

6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS 1 FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOULD HAVE A 5-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. LIVE OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.

7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.

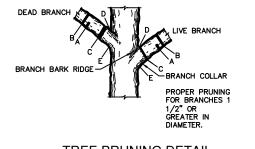
8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.

9. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR CITY INSPECTOR.

10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.

11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.

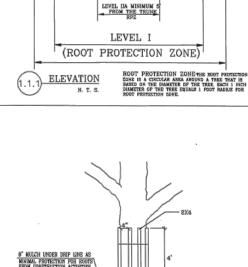
12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.





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

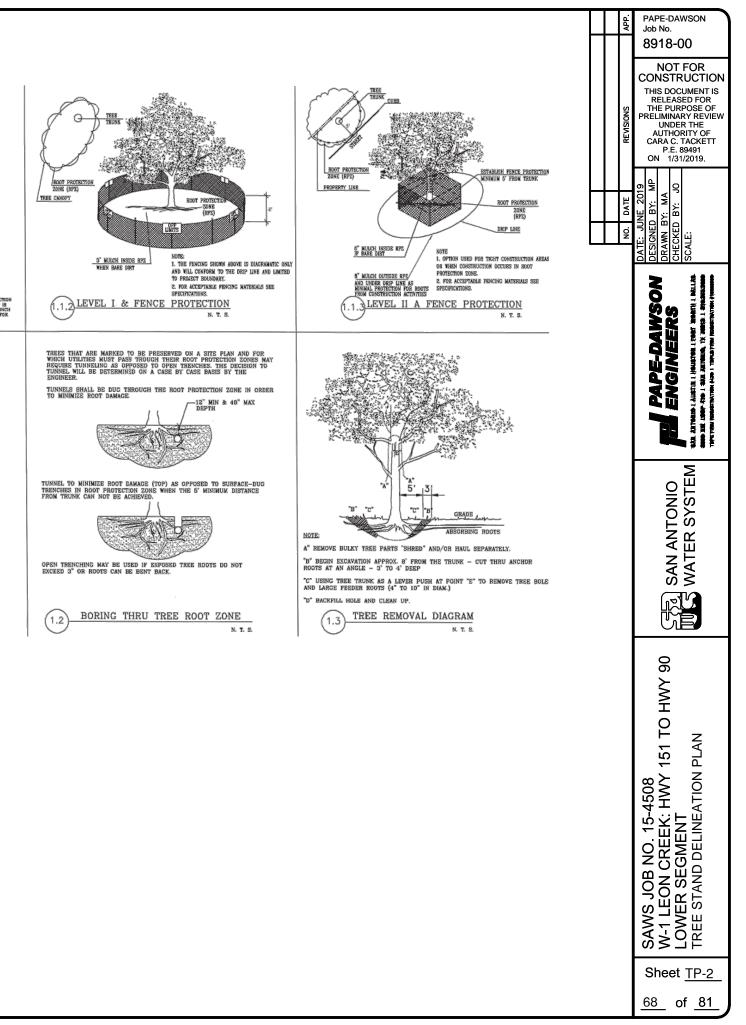
FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN. TO PREVENT THE SPREAD OF OAK WILT.



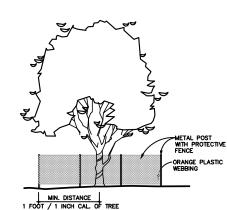
WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

N. T. S.

LEVEL II B FENCE PROTECTION







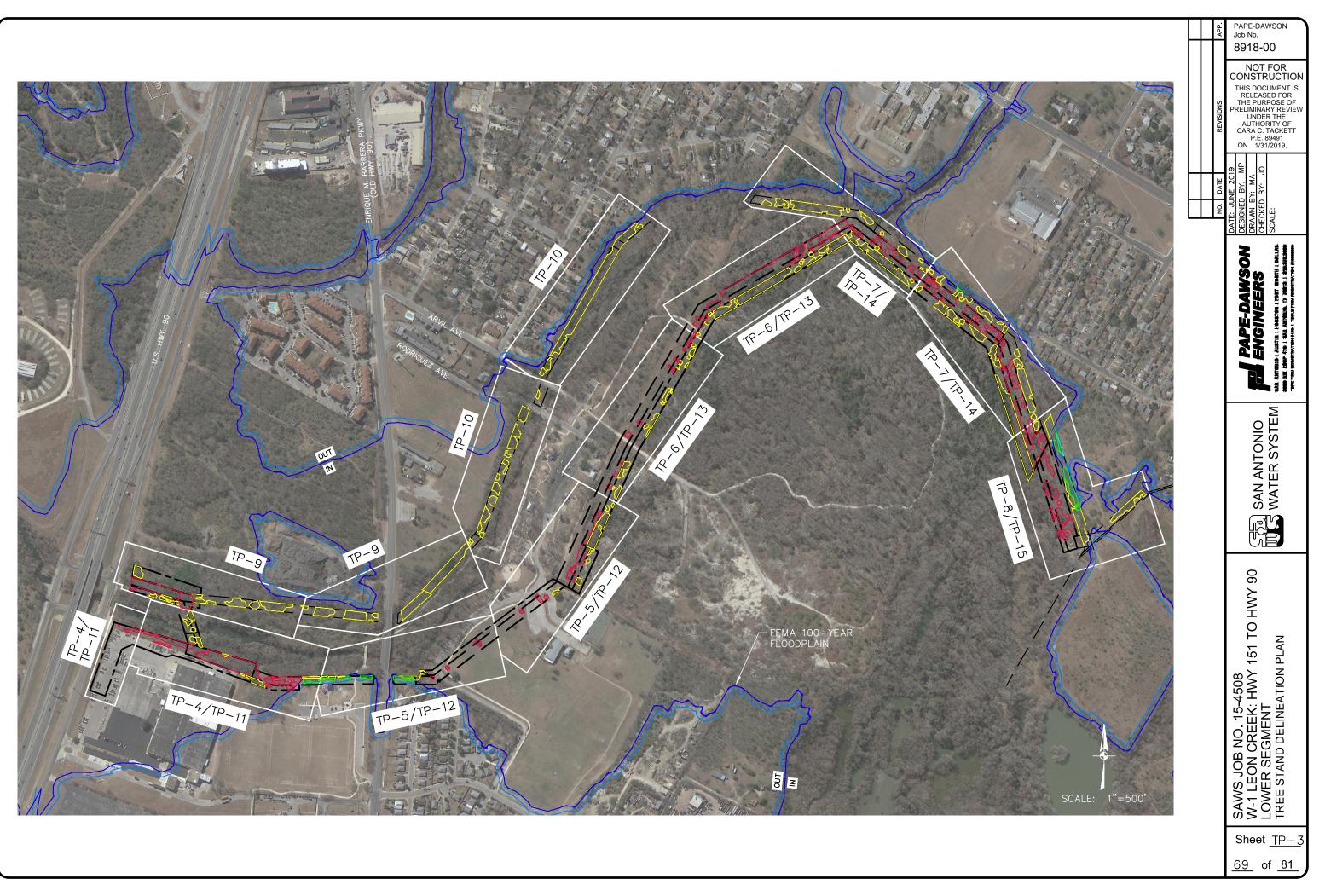
TREE PROTECTION DETAIL

EXISTING TREES

- TREE PRESERVATION NOTES
- 1. ALL TREES TO REMAIN ON SITE REQUIRE PROTECTIVE FENCING, PRUNING, WATERING, AND FERTILIZATION AS DIRECTED BY A QUALIFIED ARBORIST.
- 2. PROTECTIVE FENCING CONSISTS OF 4'-0" HIGH FENCE.
- 3. FENCE TO EXTEND FROM TRUNK ONE FOOT FOR EVERY CALIPER INCH OF TREE (MINIMUM). THE OPTIMUM DISTANCE IS TO INSTALL FENCE DIRECTLY BENEATH DRIPLINE OF TREE TO REMAIN AS SHOWN.
- 4. DURING CONSTRUCTION, NO EXCESS SOIL, FILL MATERIAL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE PROTECTIVE FENCING, NOR SHALL ANY SOIL BE REMOVED FROM WITHIN THE FENCING.
- 5. ALL TREE PROTECTION MUST BE IN PLACE BEFORE CONSTRUCTION BEGINS.
- 6. INSTALL 4" MINIMUM DEPTH OF SHREDDED MULCH BENEATH THE DRIPLINE OF THE TREE.

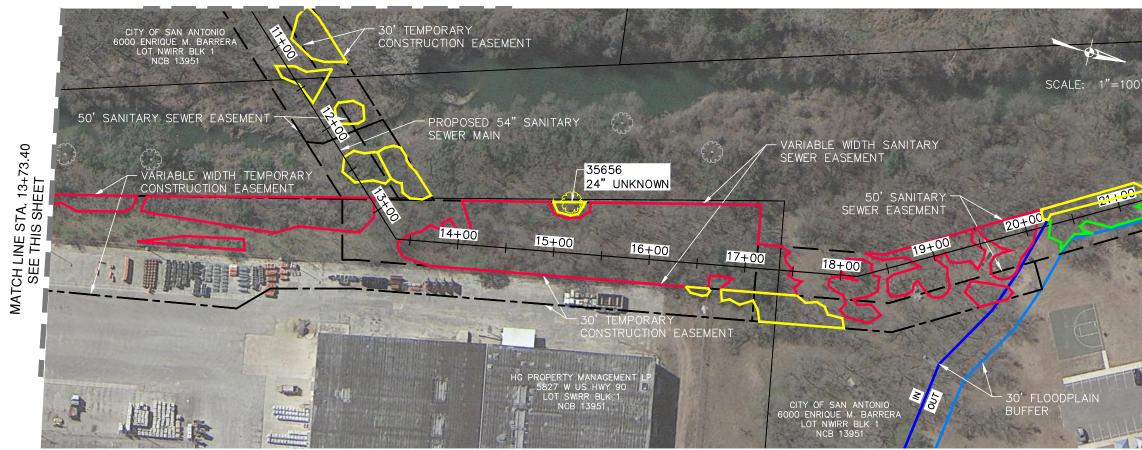
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PLOTTED ON: 1/31/19





MATCH LINE STA. 10+62.68 SEE SHEET TP-8

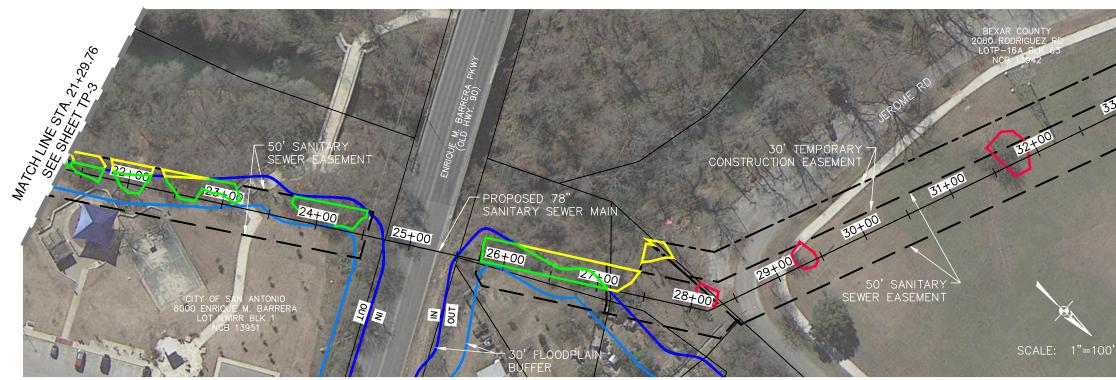


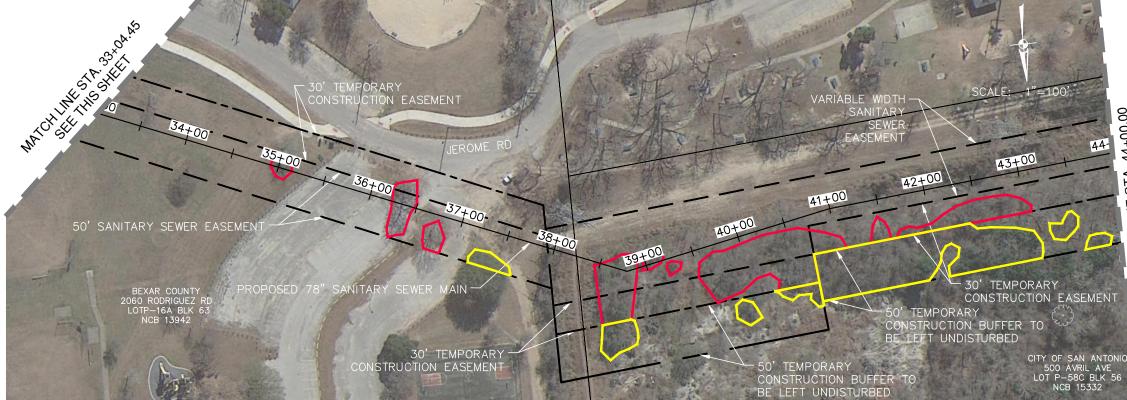
PAPE-DAWSON Job No. 8918-00 NOT FOR CONSTRUCTION THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW UNDER THE AUTHORITY OF CARA C. TACKETT P.E. 89491 ON 1/31/2019. STELE SCHELES PAPE-DAWSON ENGINEERS ---SAN ANTONIO WATER SYSTEM FV 60 YWH 10 SAWS JOB NO. 15-4508 W-1 LEON CREEK: HWY 151 T LOWER SEGMENT TREE STAND DELINEATION PLAN Sheet TP-4 <u>70</u> of <u>81</u>

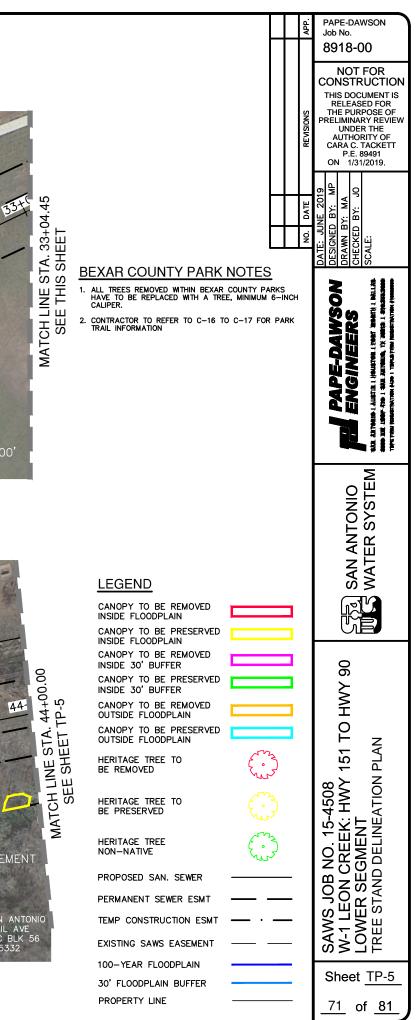
LEGEND

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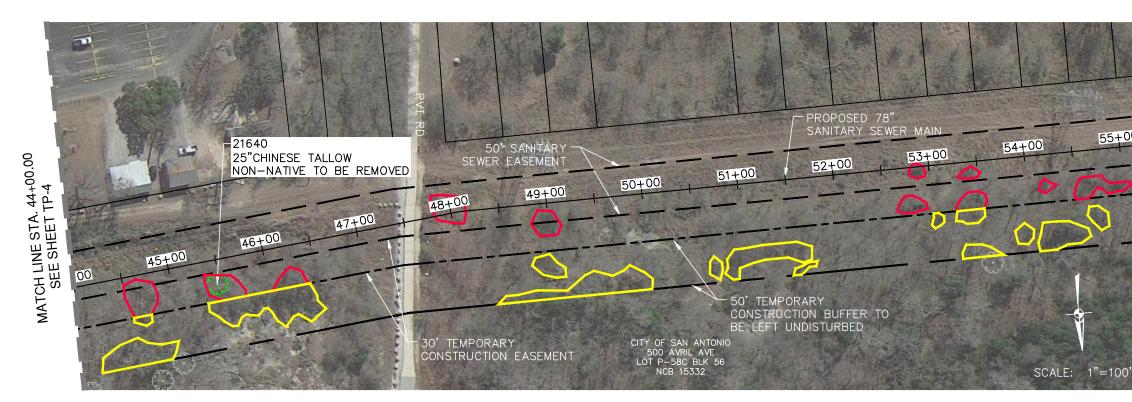
MATCH LINE STA. 21+29.76 SEE SHEET TP-4

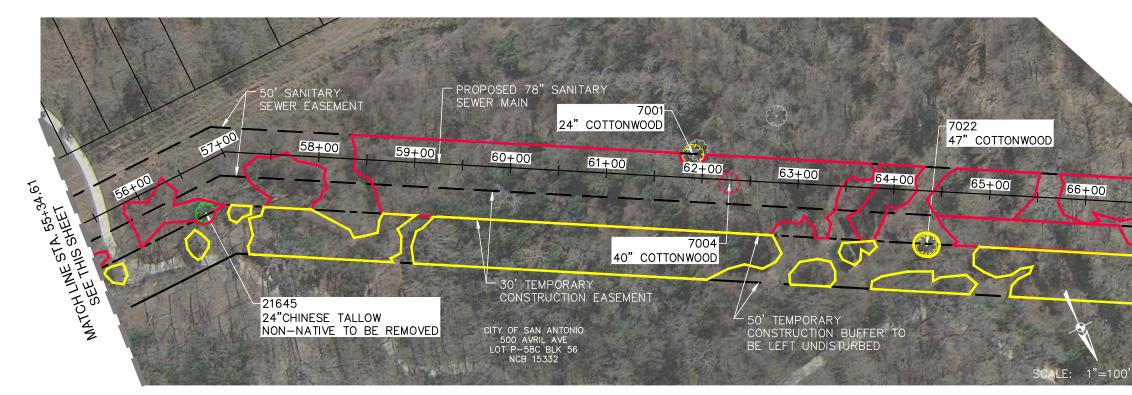




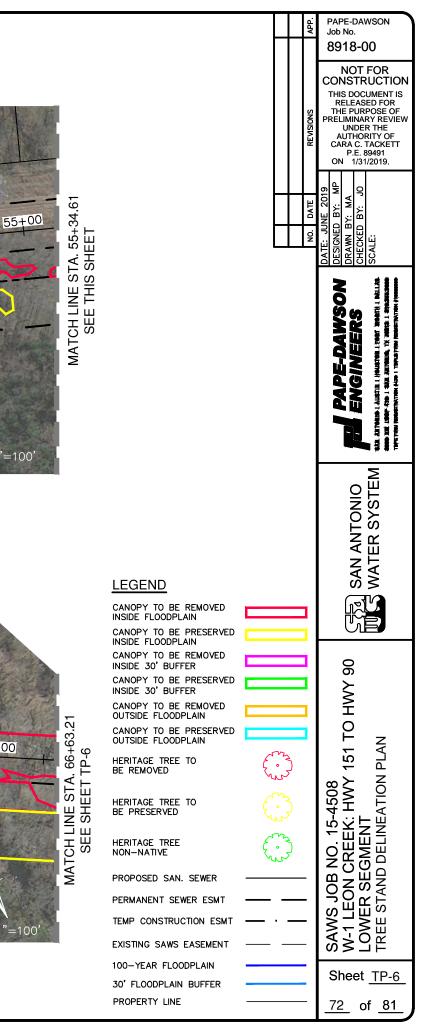


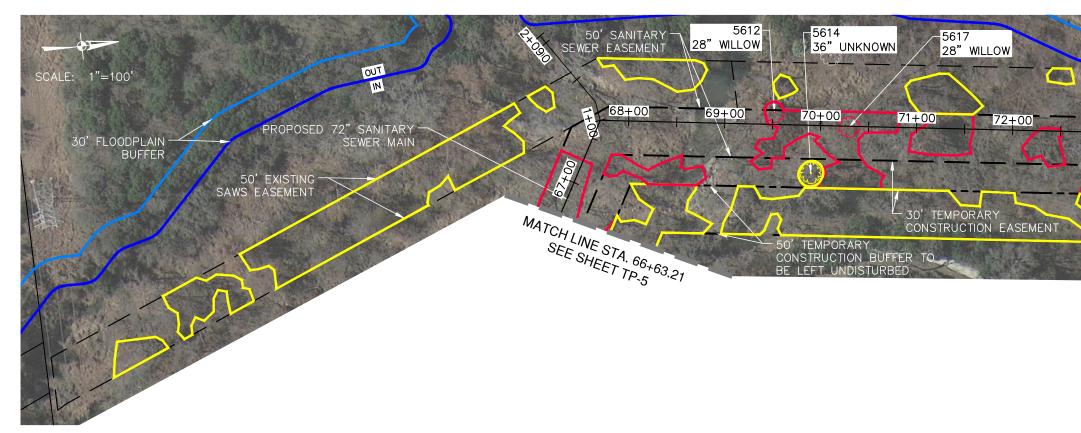


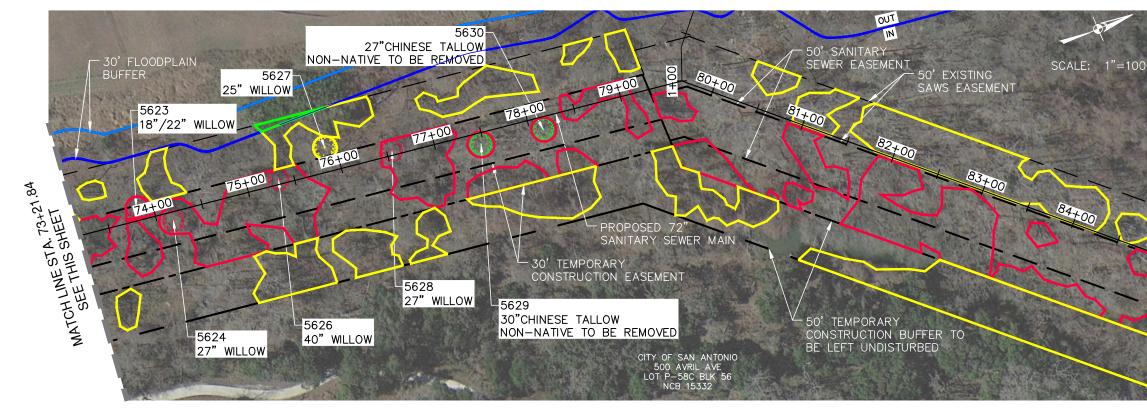




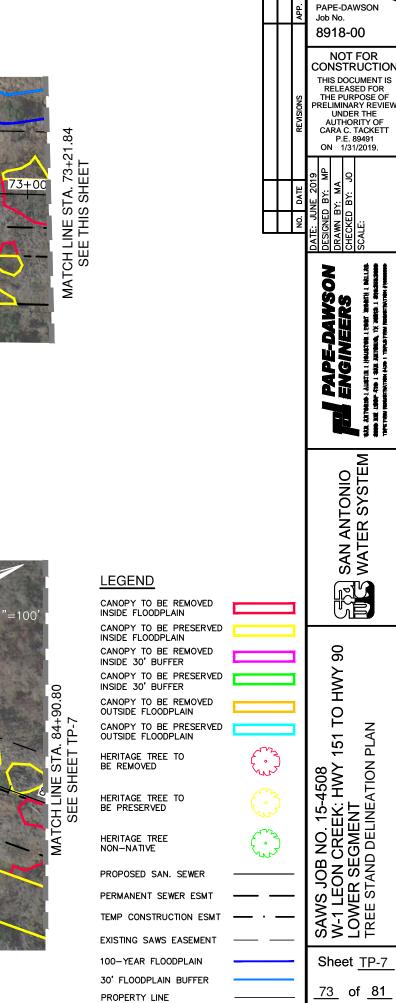
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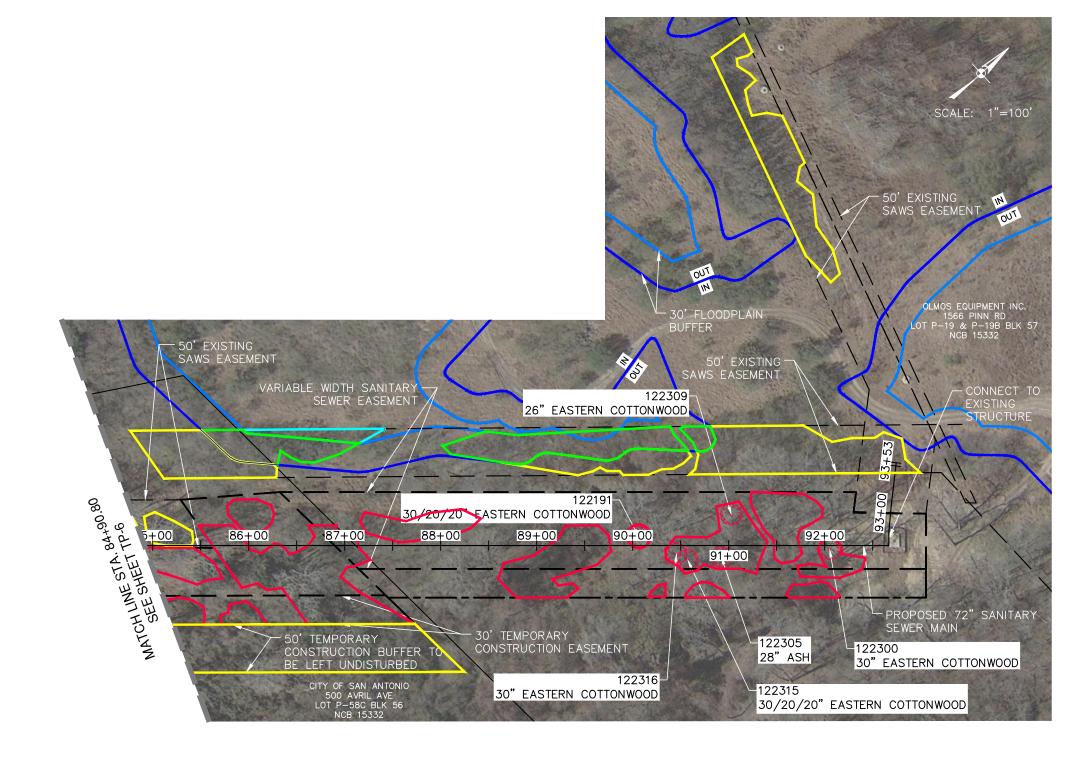






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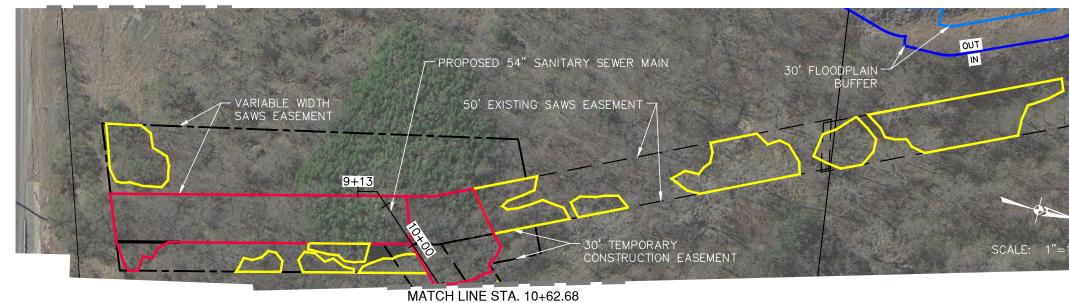




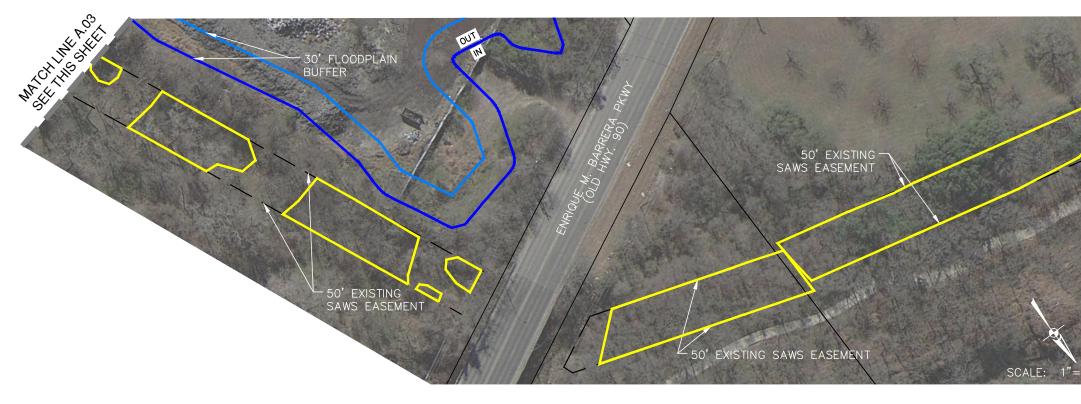
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LEGEND

CANOPY TO BE REMOVED INSIDE FLOODPLAIN		
CANOPY TO BE PRESERVED INSIDE FLOODPLAIN CANOPY TO BE REMOVED INSIDE 30' BUFFER		06
CANOPY TO BE PRESERVED INSIDE 30' BUFFER		₩Y
CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN		
CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN		<u> </u>
HERITAGE TREE TO BE REMOVED		08 VY 151 ON PLA
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EXISTING SAWS EASEMENT		NSJE
100-YEAR FLOODPLAIN		Sheet <u>TP</u>
30' FLOODPLAIN BUFFER PROPERTY LINE		<u>74</u> of <u>8</u>

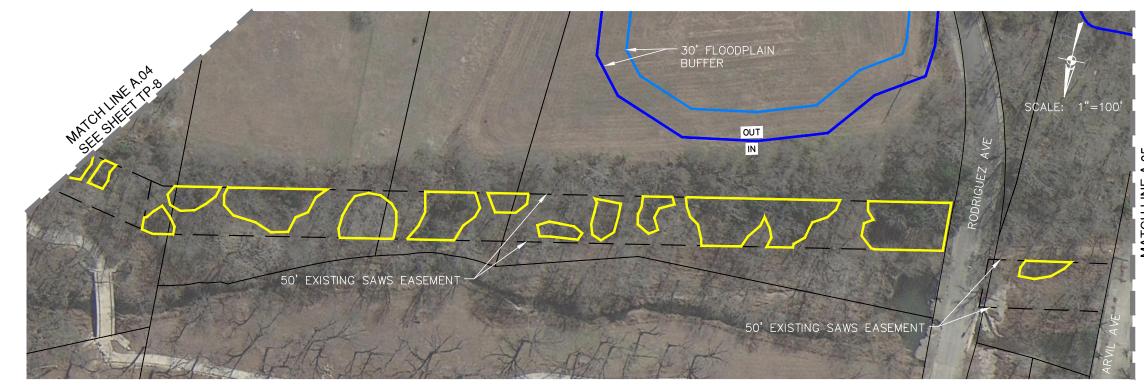


SEE SHEET TP-3



PLOTTED ON: 1/31/19

			APP.	Job No.
			REVISIONS	NOT FOR CONSTRUCTION THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW UNDER THE AUTHORITY OF CARA C. TACKETT P.E. 89491
	CH LINE A.03 THIS SHEET			JUNE 20 ED BY: MA ED BY:
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CANOPY TO BE REMOVED INSIDE 30' BUFFER CANOPY TO BE PRESERVED INSIDE 50' BUFFER CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN HERITAGE TREE TO BE REMOVED HERITAGE TREE TO BE PRESERVED HERITAGE TREE PROPOSED SAN. SEWER PROPOSED SAN. SEWER DISTING SAWS EASEMENT 100-YEAR FLOODPLAIN 30' FLOODPLAIN BUFFER Sheet <u>TP-9</u>		CANOPY TO BE REMOVED INSIDE FLOODPLAIN CANOPY TO BE PRESERVED		당권 SAN ANTONIO 반S WATER SYSTEM
30' FLOODPLAIN BUFFER Sheet <u>TP-9</u>	MATCH LINE SEE SHEET	INSIDE FLOODPLAIN CANOPY TO BE REMOVED INSIDE 30' BUFFER CANOPY TO BE PRESERVED INSIDE 30' BUFFER CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN HERITAGE TREE TO BE REMOVED HERITAGE TREE TO BE PRESERVED HERITAGE TREE NON-NATIVE PROPOSED SAN. SEWER PERMANENT SEWER ESMT TEMP CONSTRUCTION ESMT EXISTING SAWS EASEMENT		. 15-4508 EEK: HWY 151 ENT :LINEATION PLAN
		30' FLOODPLAIN BUFFER		





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MATCH LINE A.05 SEE THIS SHEET

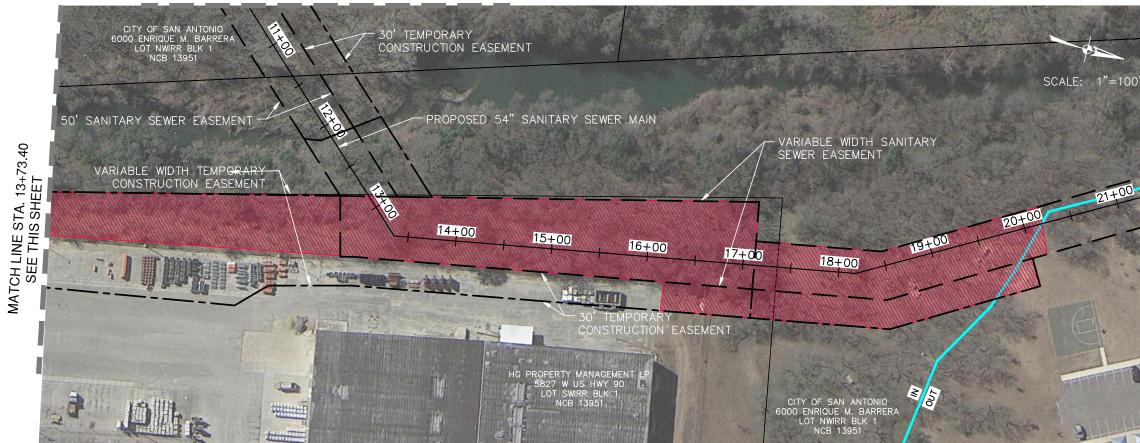
LEGEND

Job No. 8918-00 NOT FOR CONSTRUCTION THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW UNDER THE AUTHORITY OF CARA C. TACKETT P.E. 89491 ON 1/31/2019. DESIGNED DESIGNED DRAWN BY CHECKED PAPE-DAWSON ENGINEERS ₩Ē. 自責 SAN ANTONIO WATER SYSTEM CANOPY TO BE REMOVED INSIDE FLOODPLAIN CANOPY TO BE PRESERVED INSIDE FLOODPLAIN CANOPY TO BE REMOVED 90 INSIDE 30' BUFFER ΥWΗ CANOPY TO BE PRESERVED INSIDE 30' BUFFER CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN 6 SAWS JOB NO. 15-4508 W-1 LEON CREEK: HWY 151 TO LOWER SEGMENT TREE STAND DELINEATION PLAN CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN HERITAGE TREE TO BE REMOVED HERITAGE TREE TO BE PRESERVED HERITAGE TREE NON-NATIVE PROPOSED SAN. SEWER PERMANENT SEWER ESMT TEMP CONSTRUCTION ESM EXISTING SAWS EASEMENT Sheet TP-10 100-YEAR FLOODPLAIN 30' FLOODPLAIN BUFFER 76 of <u>81</u> PROPERTY LINE

PAPE-DAWSON



MATCH LINE STA. 10+62.68 SEE SHEET TP-8



PLOTTED ON: 1/31/19

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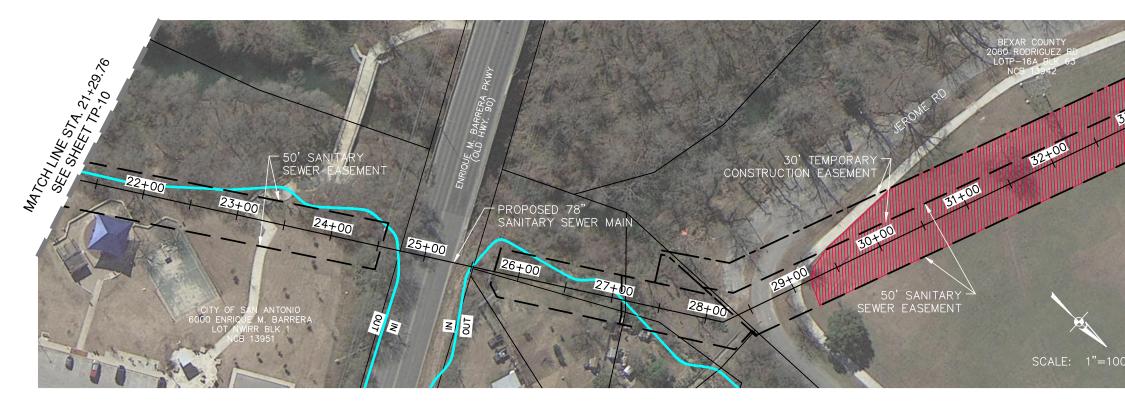
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575. 또한 SAN ANTONIO WATER SYSTEM
SAWS JOB NO. 15-4508 W-1 LEON CREEK: HWY 151 TO HWY 90 LOWER SEGMENT NATIVE SEED MIXTURE PLAN
Sheet <u>TP-11</u> 77 of <u>81</u>

MATCH LINE STA. 21+29.76 SEE SHEET TP-11

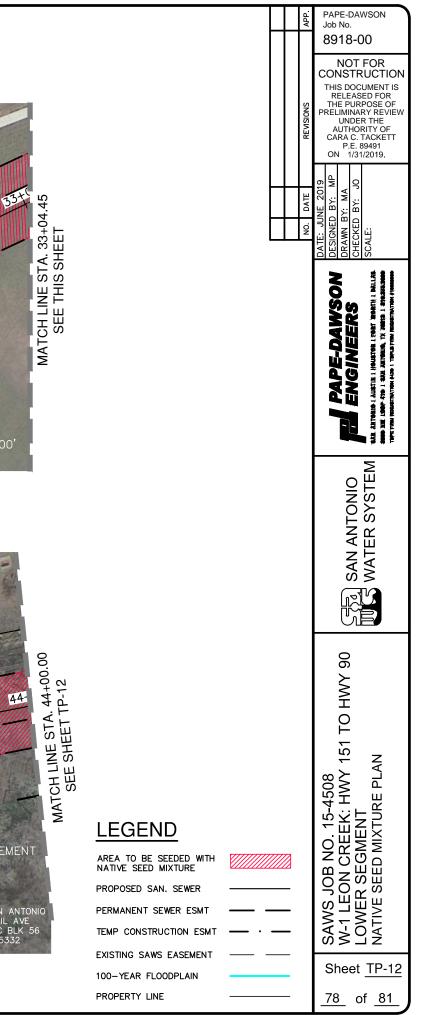
LEGEND

AREA TO BE SEEDED WITH NATIVE SEED MIXTURE PROPOSED SAN. SEWER PERMANENT SEWER ESMT TEMP CONSTRUCTION ESMT EXISTING SAWS EASEMENT 100-YEAR FLOODPLAIN PROPERTY LINE

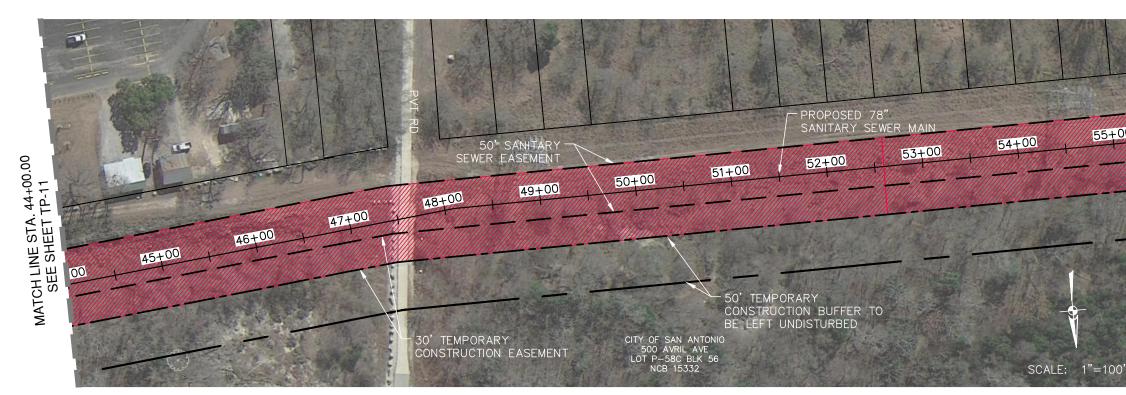
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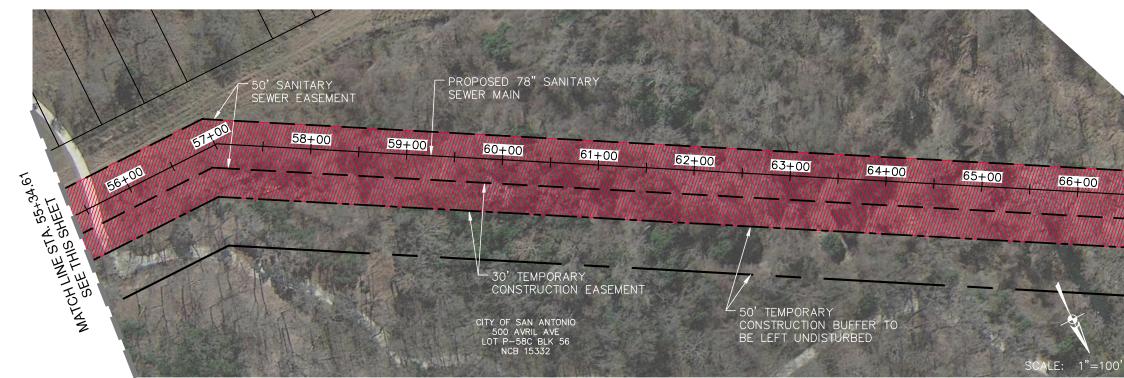




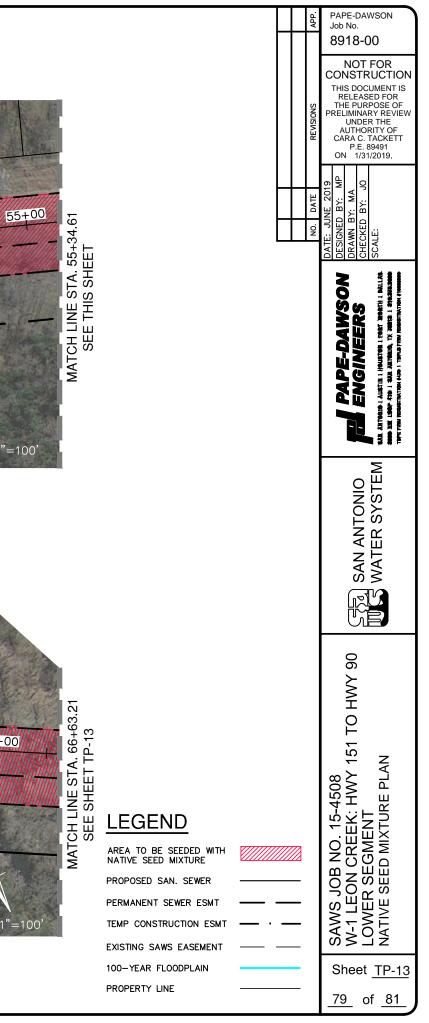




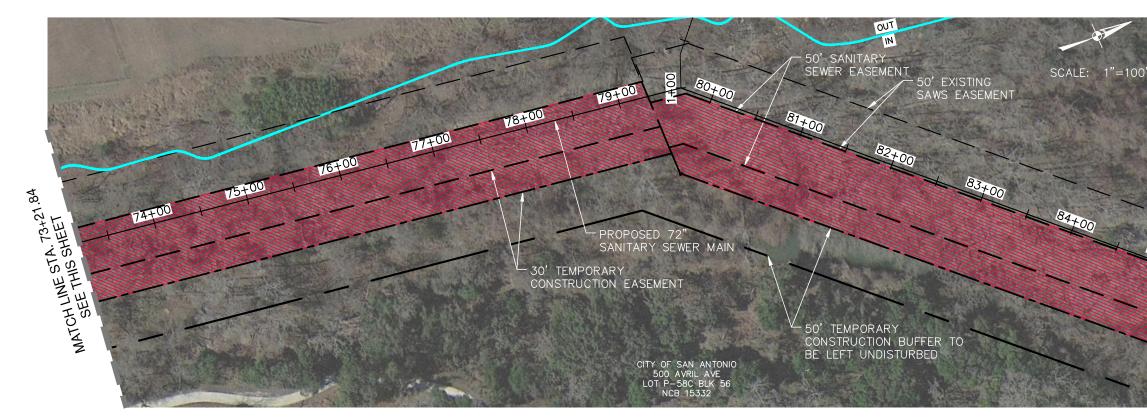




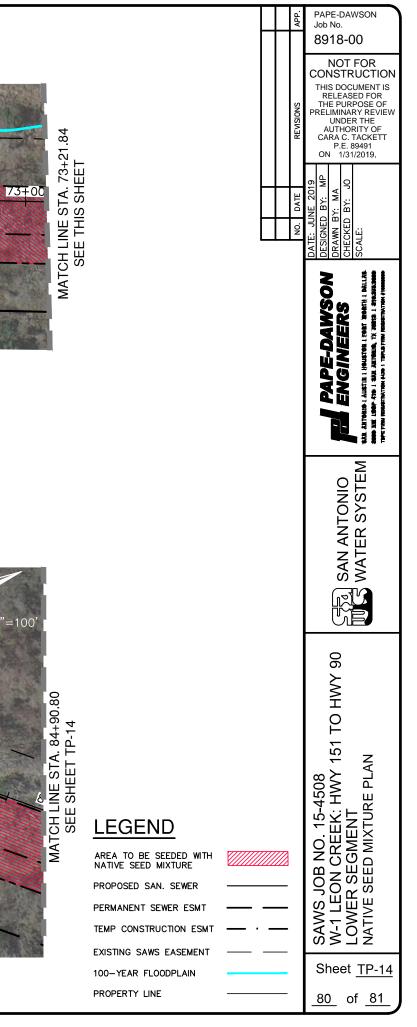
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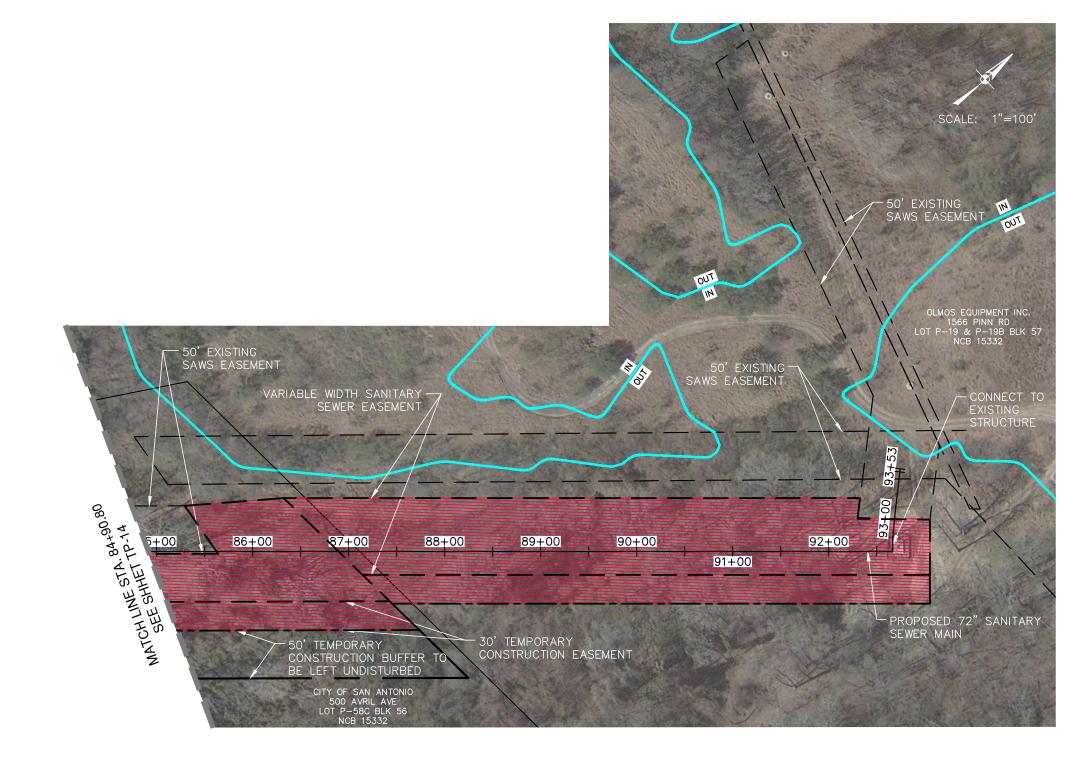


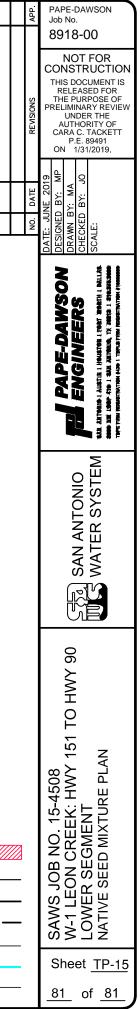




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LEGEND

AREA TO BE SEEDED WITH NATIVE SEED MIXTURE	
PROPOSED SAN. SEWER	
PERMANENT SEWER ESMT	
TEMP CONSTRUCTION ESMT	<u> </u>
EXISTING SAWS EASEMENT	
100-YEAR FLOODPLAIN	
PROPERTY LINE	