

NOTES TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES. ITEM BID PRICES SHALL BE FULL COMPENSATION FOR FURNISHING MATERIAL, ASSOCIATED LABOR AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOB SITE AND THE JOB SITE CONDITIONS DURING CONSTRUCTION. THE RESPONSIBILITY IS NOT LIMITED TO NORMAL WORKING HOURS AND INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY. THE ENGINEER AND OWNER HAVE NO LIABILITY IN CONNECTION WITH THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR LIABILITY DIRECTLY CAUSED BY THE SOLE NEGLIGENCE OF THE ENGINEER AND/OR OWNER. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER AND/OR OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE EXECUTION OF ALL WORK RELATED TO THIS PROJECT, EXCEPT FOR NEGLIGENCE ON THE PART OF THE ENGINEER AND/OR OWNER.

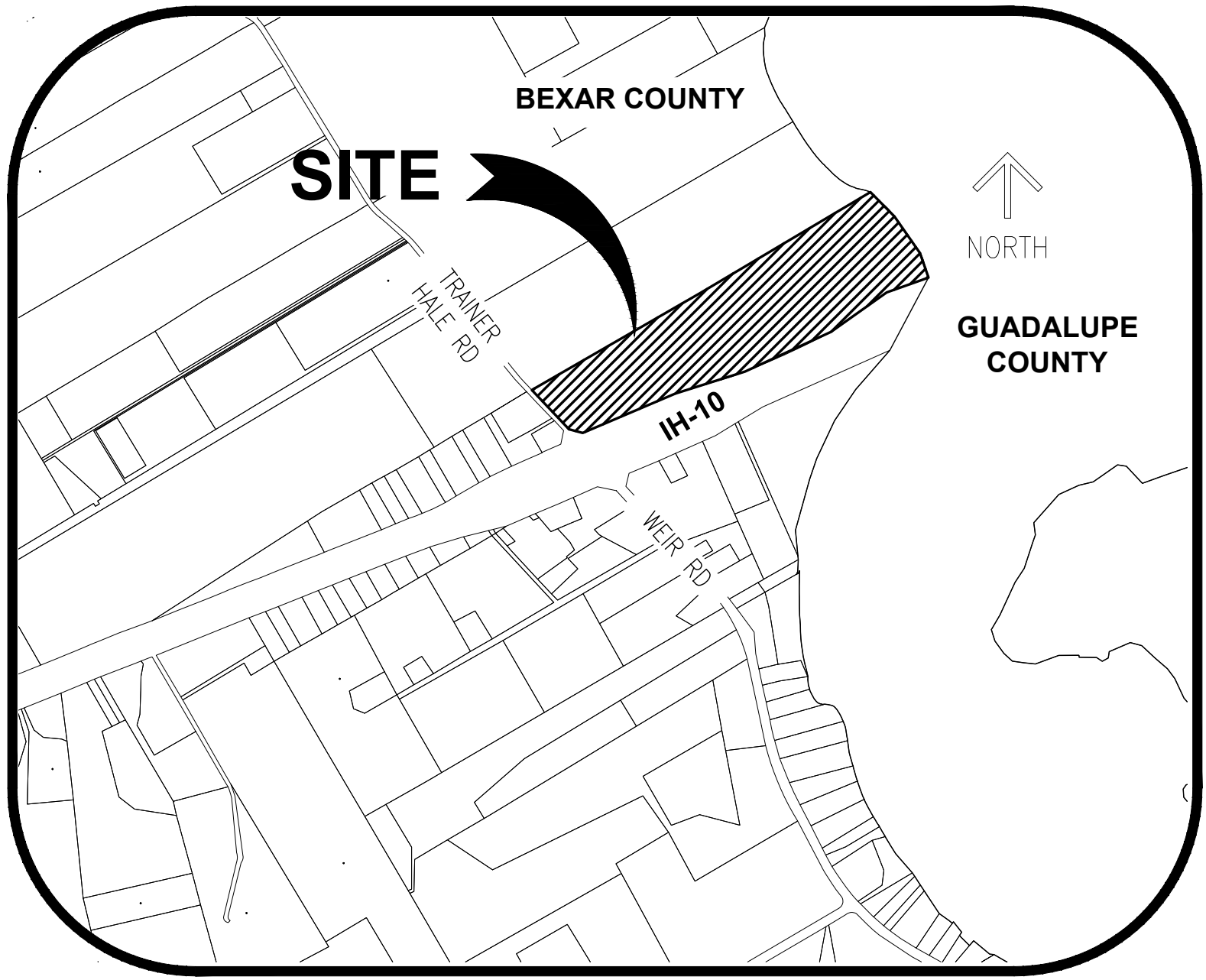
TRENCH EXCAVATION SAFETY PROTECTION

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 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.

CAUTION: THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO COMMENCING WORK AND IS RESPONSIBLE FOR ANY/ALL DAMAGES RESULTING FROM THE FAILURE TO LOCATE AND PRESERVE UTILITIES.

CONSTRUCTION PLANS
FOR
FLOOD RECLAMATION PROJECT
AT
IH10 & TRAINER HALE

SCHERTZ, TEXAS 78154



LOCATION MAP

N.T.S.

NO.	DATE	REVISIONS	BY
1	11/3/2023	UPDATE SILT FENCE/DETAILS - CITY OF SCHERTZ	ALS
2	1/16/2024	UPDATE QUANTITIES FOR CONSTRUCTION PLAN BIDS	JWB

FOR INTERIM REVIEW ONLY
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW ONLY, UNDER THE AUTHORITY OF:
NAME: J.W. BALCH, P.E.
P.E. No.: 446295
DATE: JAN 16, 2024
AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

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SITE ADDRESS

IH10 & TRAINER HALE
SAN ANTONIO, TEXAS

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Westwood Professional Services, Inc.
TBPE FIRM REGISTRATION NO. F-11756
TBPLS FIRM REGISTRATION NO. 10074301



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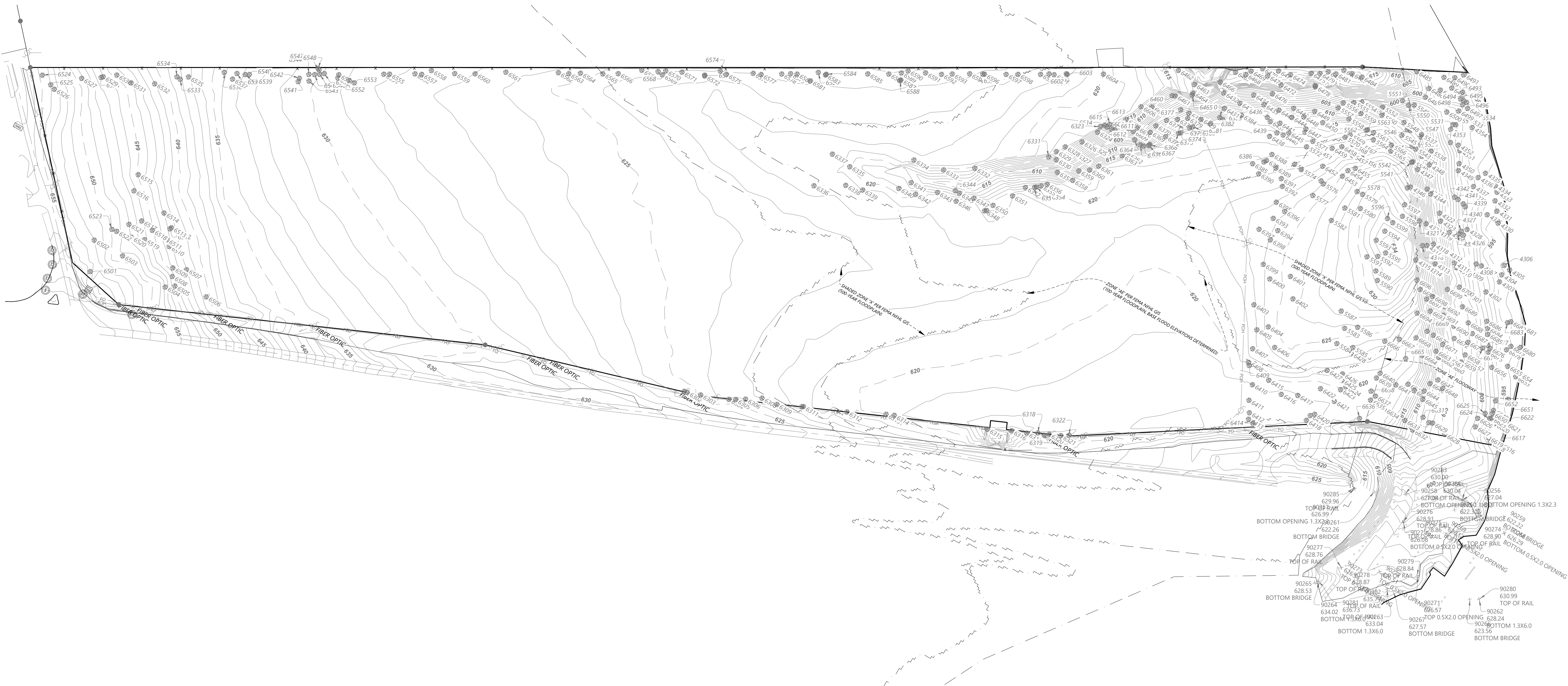
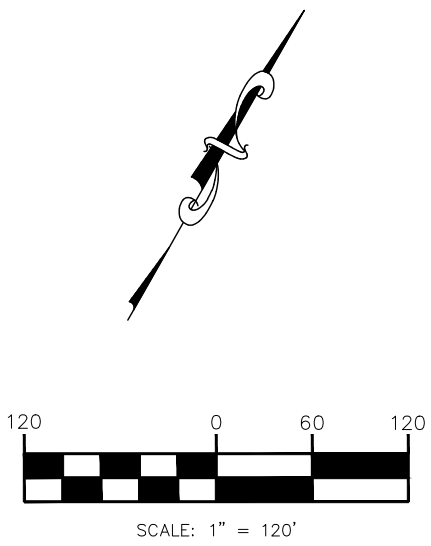
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LEGEND

- BOUNDARY LINE
- POH POWER OVERHEAD
- EASEMENT LINE
- STO STORM SEWER
- SAN SANITARY SEWER
- X FENCE LINE
- FOUND MONUMENT (AS DESCRIBED)
- SET MONUMENT (SEE LABEL)
- SANITARY MANHOLE
- DECIDUOUS TREE
- SIGN
- TELEPHONE BOX
- STORM MANHOLE
- CATCH BASIN
- HYDRANT
- GATE VALVE
- STREET LIGHT
- POWER POLE



BY	
REVISIONS	
DATE	
NO.	

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Westwood Professional Services, Inc.

TPS FIRM REGISTRATION NO. 10074801



FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE

TOPOGRAPHIC SURVEY

JOB NO.:	0044013.01
DATE:	08/17/2023
DESIGN:	BP
DRAWN:	JP
CHECKED:	DAD

SHEET

C0.1

GENERAL NOTES			
<p>1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.</p> <p>2. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION 72 HOURS PRIOR TO STARTING CONSTRUCTION, ANY TIE-IN SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PUBLIC WORKS DEPARTMENT, AT LEAST 48 HOURS IN ADVANCE.</p> <p>3. CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.</p> <p>4. ANY DISCREPANCY OR CONFLICT WITHIN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ENGINEERS ATTENTION AND CLARIFIED DURING BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ENGINEERS INTERPRETATION. ALL ITEMS, WORK, AND IMPROVEMENTS SHOWN OR INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETED FOR THE PRICES BID, WHETHER OR NOT A SEPARATE PAY ITEM IS INCLUDED IN THE CONTRACT.</p> <p>5. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS THROUGH THE COURSE OF CONSTRUCTION AND SHALL SUBMIT SAME TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE WORK BY OWNER.</p> <p>6. THE CONTRACTOR WILL SELECT, EMPLOY, AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM INSPECTION AND TESTING IDENTIFIED IN THE PUBLIC WORKS TECHNICAL SPECIFICATION SECTION 01452. EMPLOYMENT OF A TESTING LABORATORY BY THE CONTRACTOR SHALL NOT RELIEVE CONTRACTOR OF ITS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. COPIES OF REPORTS TO BE SUBMITTED TO THE CITY FOR REVIEW.</p> <p>7. THE CONTRACTOR SHALL FURNISH ALL ASSISTANCE REQUIRED OF HIM BY ALL INSPECTORS IN OBTAINING SAMPLES AT THE EXPENSE OF THE CONTRACTOR.</p> <p>8. IF IN THE OPINION OF THE INSPECTOR, BASED ON TESTING SERVICE REPORTS AND INSPECTION, MATERIALS, COMPACTION OR ANY OTHER SPECIFICATIONS ARE BELOW THE SPECIFIED REQUIREMENTS THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AND RE-TEST TO OBTAIN THE SPECIFIED PARAMETERS AT NO ADDITIONAL EXPENSE.</p> <p>9. FOR ALL PAVEMENT LAYERS, A PASSING TEST RESULT IS REQUIRED WITHIN 48 HOURS OF PLACING THE NEXT LAYER OR RETESTING WILL BE REQUIRED.</p> <p>10. DESIGN AND CONSTRUCTION STANDARDS REQUIRED:</p> <div><div>A. PROJECT CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS, & DESIGN REPORTS.</div><div>B. CITY OF SCHERTZ PUBLIC WORKS SPECIFICATION MANUAL.<div><div>1. PUBLIC WORKS DESIGN GUIDE.</div><div>2. PUBLIC WORKS TECHNICAL SPECIFICATIONS.</div><div>3. STANDARD DETAILS.</div></div></div></div> <p>11. UNLESS OTHERWISE SHOWN IN THESE PLANS, SIDEWALKS WILL BE CONSTRUCTED CONCURRENT WITH MAIN LOT STRUCTURE.</p> <p>12. ROUGH GRADING MUST BE DONE ON ALL LOTS PRIOR TO SUBDIVISION PRELIMINARY ACCEPTANCE.</p> <p>13. ALL PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBING, GUTTERS, FENCES, POLES, MAILBOXES, SIGNS, TREES, SHRUBBERY, LAWNS, SOO OR OTHER PROPERTY AND SURFACE STRUCTURES ON OR ADJACENT TO THE PROJECT SITE NOT SHOWN TO BE REMOVED IN PLANS, THAT ARE DAMAGED, DISTURBED OR DESTROYED DURING THE WORK SHALL BE REPLACED OR RETURNED TO A CONDITION EQUAL TO THAT BEFORE THE WORK BEGAN. CONTRACTOR TO SUPPORT AND KEEP INTACT STORM DRAINS AND INLET STRUCTURES. ANY DAMAGES INCURRED WILL BE AT CONTRACTOR'S EXPENSE.</p>			
		GENERAL NOTES	
		PUBLIC WORKS CONSTRUCTION SPECIFICATIONS	
ENGINEERING AND PUBLIC WORKS		SCALE	DATE: 7/7/19
	PROJECT NO. 000	DESIGNED BY: JEP	CHECKED BY: JEP

TRAFFIC			
<p>47. THE CONTRACTOR SHALL PROVIDE ACCESS FOR RESIDENCES AND BUSINESSES.</p> <p>48. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.</p> <p>49. THE CONTRACTOR WILL BE REQUIRED TO FURNISH BARRICADES, WARNING SIGNS, LIGHTS, FLARES, FLAGS, FLAGMEN, ETC. WHERE NECESSARY AND AS DIRECTED BY THE ENGINEER, PARTICULARLY IN THOSE AREAS OF IMMEDIATE WORK.</p> <p>50. BATTERY FLASHERS SHALL BE USED AND NUMBER SHALL BE EQUAL OR GREATER THAN INDICATED ON BARRICADING STANDARDS. WHEN A CLASS I BARRICADE PANEL OR CLASS II BARRICADE IS USED, EACH SHOULD BE EQUIPPED WITH A MINIMUM OF TWO (2) LIGHTS. ALL WARNING SIGNS NOT MOUNTED ON BARRICADES SHALL HAVE ONE (1) LIGHT.</p> <p>51. BATTERY FLASHERS SHALL CONFORM TO PART V, SECTION D, LIGHTING DEVICES, TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.</p> <p>52. CONTRACTOR RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN, PREPARED BY A REGISTERED PROFESSIONAL ENGINEER, TO THE CITY FOR APPROVAL 5 WORKING DAYS PRIOR TO COMMENCING WORK. PLAN SHOULD FOLLOW REQUIREMENTS OF TMUTCD, LATEST EDITION.</p> <p>53. ALL TRENCHING AND CUT PAVEMENT SHALL BE RESTORED SUCH THAT LOCAL ACCESS MAY BE RESUMED AS SOON AS POSSIBLE.</p> <p>54. RESTRICT TOTAL LENGTH OF DISTRIBUTED MATERIALS ALONG THE ROUTE OF CONSTRUCTION TO 1,000 LINEAR FEET UNLESS OTHERWISE APPROVED IN WRITING BY PUBLIC WORKS.</p> <p>55. MAINTAIN THROUGH TRAFFIC ALONG ALONG ANY PUBLIC ROADWAYS FOR THE DURATION OF THE PROJECT.</p> <p>56. COORDINATE SHUT DOWN ROAD WITH CITY OF SCHERTZ 5 DAYS PRIOR TO SHUTDOWN. SEE SPEC 01555.</p>			
TxDOT NOTE:			
<p>57. NO WORK AND NO STORAGE OF MATERIALS WILL BE PERFORMED IN TxDOT RIGHT-OF-WAY, UNLESS THE APPROPRIATE DENSITIES HAVE BEEN OBTAINED.</p> <p>58. ALL TxDOT REQUIRED PERMITS MUST BE OBTAINED AND PROVIDED BY THE CITY BY THE CONTRACTOR. ALL PERMITS FOR UTILITY WORK WITHIN THE TxDOT R.O.W. WILL BE OBTAINED AND PROVIDED TO THE CITY. ALL PLANS AND REQUIRED SUBMITTALS WILL BE PROVIDED BY THE CONTRACTOR AT REQUEST OF THE CITY.</p>			
		TRAFFIC	
		TECHNICAL SPECIFICATION SECTION 01555	
ENGINEERING AND PUBLIC WORKS		SCALE	DATE: 7/7/19
	PROJECT NO. 000	DESIGNED BY: JEP	CHECKED BY: JEP

UTILITIES			
<p>14. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.F.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.</p> <p>15. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED IN THESE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CONTACT ANY UTILITIES ENCOUNTERED FORTY-EIGHT HOURS (48) HOURS PRIOR TO EXCAVATION OPERATION.</p> <p>16. THE FOLLOWING IS A LIST OF TELEPHONE NUMBERS OF THE UTILITY LOCATORS FOR THE VARIOUS UTILITIES THAT MAY BE ENCOUNTERED:</p> <div><div>TEXAS ONE CALL.....1-800-245-4545 (1-800-DIG-TESS)</div><div>C.C.M.A.....210-658-6241</div><div>CITY PUBLIC SERVICE.....1-800-545-6005</div><div>CENTERPOINT ENERGY INTX.....(210)-659-6788</div><div>G.V.E.C.....(210)-672-2871</div><div>NEW BRAUNFELS UTILITY.....(810)-629-8400</div><div>TIME WARNER CABLE.....(210)-352-4472</div><div>AT&T.....1-800-828-5127</div><div>TxDOT NEW BRAUNFELS.....1-800-644-4773</div><div>CITY OF SCHERTZ PUBLIC WORKS DEPT.....(210)-619-1800</div><div>GREEN VALLEY WATER DISTRICT.....(810)-914-2330</div><div>SCHERTZ SEWIR LOCAL GOV'T CORP.....(810)-401-2609</div><div>GREEN VALLEY TELEPHONE COMPANY.....(810)-885-8277</div><div>GREEN VALLEY SPECIAL UTILITY DISTRICT.....(811)-914-2330</div></div>			

A. IDENTIFY THE SOURCE OF THE SPILL AND ATTEMPT TO ELIMINATE ANY ADDITIONAL SPILLAGE.

B. NOTIFY THE CITY OF SCHERTZ PUBLIC WORKS

C. CONTAIN THE SPILL IN PLACE AND AVOID CONTAMINATION OF STRIAMS.

D. DISINFECT THE AREA OF THE SPILL WITH A MIXTURE OF 1:10 CHLORINE AND WATER.

E. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF SCHERTZ.

CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES.			
<p>THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".</p> <p>59. NO DISTURBANCE OF PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING, BARRICADES OR OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR A MINIMUM OF 10 FEET FROM TREE CANOPY OR THE DRIP LINE, WHICHEVER IS GREATER.</p> <p>60. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.</p> <p>61. WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCES WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.</p> <p>62. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION, BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, MATLIES, BOTH HAVE BEST MANAGEMENT PRACTICES (BMPs) AS REQUIRED, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES.</p> <p>63. PRIOR TO THE INSTALLATION OF ANY FILL MATERIALS ON SUBJECT SITE, SILT FENCES SHALL BE INSTALLED (1) ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES, (2) AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS, (3) ADJACENT TO NATURAL LANDSCAPE BUFFERS, (4) AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES, AND (5) AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFOREMENTIONED LOCATIONS, WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PROTECTIVE MEASURES AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE THROUGHOUT PROJECT CONSTRUCTION.</p> <p>64. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND/OR MULCH ALL DISTURBED AREAS. 85% SUFFICIENT GRASS COVERAGE IS TO BE ESTABLISHED BEFORE PERMIT EXPIRATION.</p> <p>65. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE. WITHIN SEVEN (7) DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE OR INACTIVITY IN CONSTRUCTION, THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOO, AS REQUIRED. ANY PROJECT THAT IS INACTIVE FOR A PERIOD OF 30 DAYS OR MORE SHALL BE STABILIZED TO THE SATISFACTION OF THE CITY OF SCHERTZ.</p> <p>66. ONCE AN AREA IS SEEDED OR SOODED, IT MUST BE MAINTAINED BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED. IF THE GRASS IS NOT ESTABLISHED WITHIN TWO WEEKS THE CITY MAY REQUIRE THE CONTRACTOR TO RE-SEED OR A NON-VEGETATIVE OPTION MAY BE EMPLOYED.</p> <p>67. ABSOLUTELY NO BURYING OF CLEARED MATERIALS IS PERMITTED.</p> <p>68. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SOODED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED.</p> <p>69. FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (95% FOR PAVED AREAS AND 95% FOR BUILDING PADDS AND ALL OTHER AREAS AS PER ASTM D-988).</p> <p>70. DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THE BUILDING LOTS AT 300 FOOT INTERVALS. THESE TESTS ARE TO BE PERFORMED IN ONE-FOOT VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.</p> <p>71. IF ANY MUCK MATERIAL IS DISCOVERED, IT SHALL BE REQUIRED TO BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.</p> <p>72. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF TWENTY DAYS SHOULD BE SEEDED AND MULCHED IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.</p> <p>73. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.</p>			
		CLEARING & GRADING	
		TECHNICAL SPECIFICATION SECTION 01410 & 01570	
ENGINEERING AND PUBLIC WORKS		SCALE	DATE: 7/7/19
	PROJECT NO. 000	DESIGNED BY: JEP	CHECKED BY: JEP

TREES & VEGETATION			
<p>30. THE CONTRACTOR SHALL VERIFY WHICH TREES ARE TO BE SAVED AND PROTECTED PRIOR TO COMMENCING CONSTRUCTION. DURABLE FENCE PROTECTION BARRIERS SHALL BE INSTALLED AROUND ALL TREES TO BE SAVED WITH FENCE PLACEMENT A MINIMUM OF 10 FEET FROM TREE CANOPY OR THE DRIP LINE, WHICHEVER IS GREATER.</p> <p>31. THE CONTRACTOR SHALL NOT DISTURB AREAS AROUND EXISTING TREES TO BE SAVED.</p> <p>32. THE CONTRACTOR SHALL PROTECT EXISTING GRASS, LANDSCAPING, AND TREES NOT IN DIRECT CONFLICT WITH PROPOSED IMPROVEMENTS DURING CONSTRUCTION. GRASSED AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITH TOPSOIL AND SOODED.</p> <p>33. THE CONTRACTOR SHALL REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOIL, DEBRIS, AND DELETERIOUS MATERIALS IN CONFLICT WITH IMPROVEMENTS.</p> <p>34. AFTER THE CONTRACTOR HAS REMOVED MATERIALS AS DESCRIBED ABOVE, HE SHALL STRIP SUITABLE TOPSOIL AND STOCKPILE FOR LANDSCAPING USE.</p> <p>35. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO AVOID DAMAGE TO TREES AND ORNAMENTAL SHRUBS PLANTED AND MAINTAINED BY PROPERTY OWNERS IN THE TERRACES FRONTING THEIR PROPERTY.</p> <p>36. CONTRACTOR SHALL COMPENSATE OWNER FOR DAMAGE TO TREES NOT SHOWN TO BE REMOVED IN PLANS.</p> <p>37. OAK TREES DAMAGED DURING CONSTRUCTION SHALL BE SEALED WITHIN SIX HOURS OF DAMAGE TO PREVENT INFECTION BY OAK WILT.</p>			
NDPES			
<p>38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), INCLUDING COMPLYING WITH ALL APPLICABLE REGULATIONS RELATED TO NDPES & TPDES, AND SUBMITTING REQUIRED NOTIFICATION OF INTENT AND TERMINATION. THIS IS TO BE PAID FOR UNDER "STORM WATER POLLUTION PREVENTION PLAN" ITEM.</p> <p>39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE CONDITIONS DURING CONSTRUCTION AND UNTIL THE PROJECT IS ACCEPTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STORMWATER POLLUTION PREVENTION PLAN, UNDERSTAND THE REQUIREMENTS FOR THE PLAN, AND SHALL BE RESPONSIBLE FOR IMPLEMENTING THE PLAN. THIS IS TO BE INCLUDED UNDER SECTION 01410 "STORM WATER POLLUTION PREVENTION PLAN". ALL FINES IMPOSED FOR NOT IMPLEMENTING OR MAINTAINING SWPPP MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.</p>			
SITE RESTORATION:			
<p>40. RESTORATION OF PROJECT AREA AFFECTED BY CONSTRUCTION ACTIVITIES IN PUBLIC AND PRIVATE PROPERTY, INCLUDING RIGHT-OF-WAYS AND EASEMENTS (TOPSOIL AND HYDROMULCH), PAVEMENT, DRIVEWAYS, DRAINAGE STRUCTURES, FENCES, LAWNS (TOPSOIL AND BLOCK SODDING), AND LANDSCAPING WILL BE COVERED BY SPECIFICATION AND BID ITEM "SITE RESTORATION" AND SPECIFICATION 01740.</p> <p>41. PAYMENT FOR RESTORATION OF PROJECT SITE DISTURBED BY UTILITY CONSTRUCTION OPERATIONS IS ON A LINEAR FOOT.</p> <p>42. MEASUREMENT WILL BE AS PROVIDED FOR CORRESPONDING UTILITY IN EACH SPECIFICATION SECTION. NO SEPARATE PAYMENT MADE FOR BRANCH PIPE, VALVES, SERVICES, YARD PIPING AND OTHER ASSOCIATED WORK FOR UTILITIES. MEASUREMENT FOR RESTORATION WITH MULTIPLE UTILITIES WITHIN THE SAME RIGHT-OF-WAY WILL BE ON A LINEAR FOOT BASIS FOR ONLY ONE UTILITY.</p> <p>43. PAYMENT INCLUDES REQUIRED SITE RESTORATION WITHIN THE RIGHT-OF-WAY OR EASEMENT REGARDLESS OF SIZE OR TYPE OF PIPE. METHOD OF CONSTRUCTION, PAVED OR UNPAVED AREAS OR THICKNESS AND WIDTH OF PAVEMENT.</p> <p>44. NO SEPARATE PAYMENT MADE FOR SITE RESTORATION FOR SERVICE CONNECTIONS OR YARD PIPING UNDER THIS SECTION. INCLUDE COST IN APPROPRIATE ITEM.</p> <p>45. ALL DISTURBED AREAS TO BE RE-VEGETATED TO 85% OF APPROVED GRASSES ACCORDING TO THE UPC PRIOR TO THE ACCEPTANCE OF PERMIT CLOSOUT.</p> <p>46. ROUGH GRADING, INCLUDING TREE REMOVAL MUST BE DONE ON ALL LOTS PRIOR TO SUBDIVISION PRELIMINARY ACCEPTANCE.</p>			
		TPDES	
		TECHNICAL SPECIFICATION SECTION 01410 & 01740	
ENGINEERING AND PUBLIC WORKS		SCALE	DATE: 7/7/19
	PROJECT NO. 000	DESIGNED BY: JEP	CHECKED BY: JEP

CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES.			
<p>THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".</p> <p>74. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD DECOMPOSE.</p> <p>75. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A Ph RANGE BETWEEN 5.5 AND 6.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.</p> <p>76. OWNER/CONTRACTOR SHALL FILE A "NOTICE OF INTENT" TO USE GENERAL PERMIT FOR STORM WATER DISCHARGE FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES" WITH THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM" IN COORDINATION WITH THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY. CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PROVISIONS OF THE GENERAL PERMIT INCLUDING BUT NOT LIMITED TO:</p> <div><div>A. PROVIDE SUCH EROSION AND SEDIMENT CONTROL MEASURES AS MAY BE NECESSARY TO PREVENT DISCHARGE OF POLLUTANTS FROM THE SITE FROM THE START OF CONSTRUCTION UNTIL THE FINAL GROUND COVER HAS BEEN ESTABLISHED.</div><div>B. WORK WITH CITY INSPECTORS TO MAKE WEEKLY INSPECTIONS/REPORTS OF THE CONDITION OF EROSION AND SEDIMENT CONTROL MEASURES.</div><div>C. WORK WITH CITY INSPECTORS TO MAKE INSPECTIONS/REPORTS OF THE CONDITION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN 24 HOURS OF EVERY RAINFALL EVENT EXCEEDING ONE-HALF INCH.</div><div>D. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.</div><div>E. ADO EROSION AND SEDIMENT CONTROL MEASURES AS SITE CONDITIONS CHANGE.</div><div>F. REMOVE TEMPORARY EROSION/SEDIMENT CONTROL MEASURES AFTER SUBSTANTIAL RE-VEGETATION AND/OR PRIOR TO THE END OF THE PERMIT EXPIRATION.</div></div>			
		CLEARING & GRADING	
		TECHNICAL SPECIFICATION SECTION 01410 & 01570	
ENGINEERING AND PUBLIC WORKS		SCALE	DATE: 7/7/19
	PROJECT NO. 000	DESIGNED BY: JEP	CHECKED BY: JEP

FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE

JOB NO.:	0044013.01
DATE:	08/17/2023
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GENERAL NOTES

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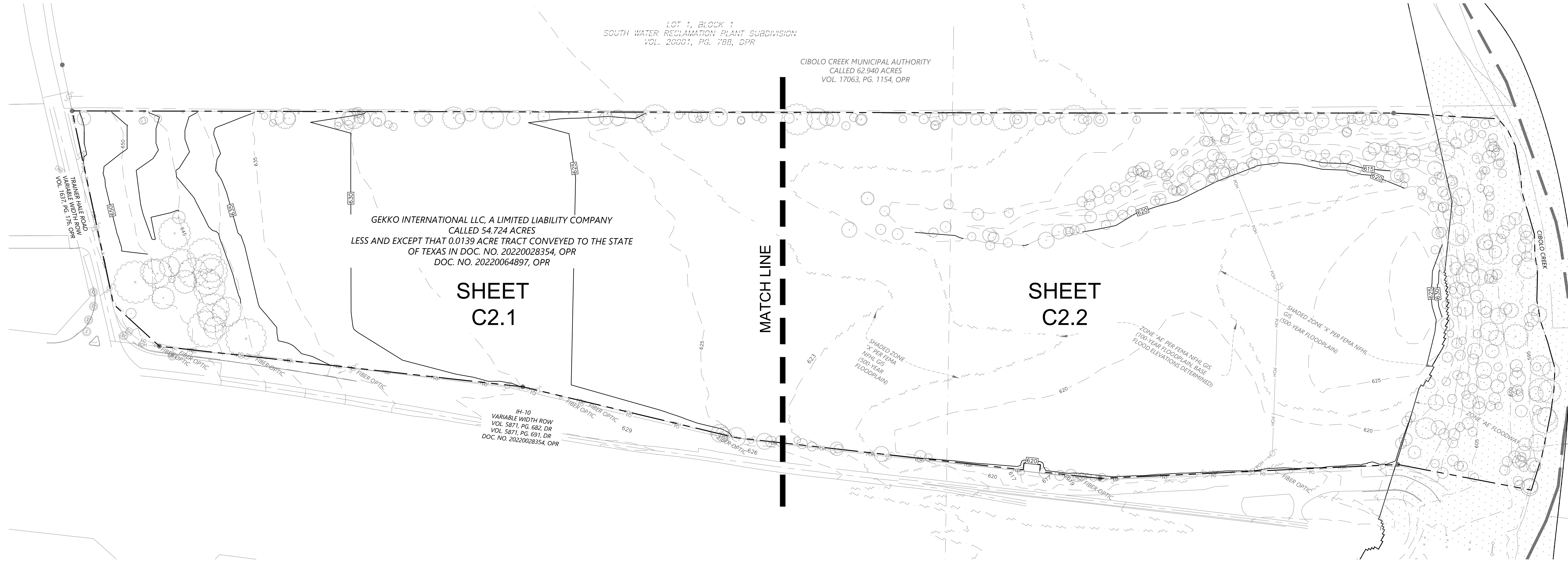
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westwoodps.com

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Toll Free (888) 937-5150

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TPELS FIRM REGISTRATION NO. 10974801

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 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.

CAUTION: THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO COMMENCING WORK AND IS RESPONSIBLE FOR ANY/ALL DAMAGES RESULTING FROM THE FAILURE TO LOCATE AND PRESERVE UTILITIES.



CUT / FILL SUMMARY			
AREA	CUT (CU. YD.)	FILL (CU. YD.)	NET (CU. YD.)
VOLUME SURFACE	60,839	75,778	14,938

NO.	DATE	REVISIONS		BY
		UPDATE	QUANTITIES FOR CONSTRUCTION	
2	1/16/2024			JWB

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FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE
OVERALL GRADING PLAN

JOB NO.:	0044013.01
DATE:	08/17/2023
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DRAWN:	JP
CHECKED:	DAD

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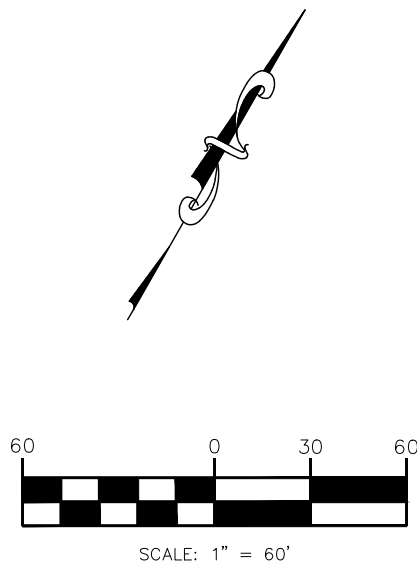
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LEGEND

- EXISTING SIGN
- EXISTING ELECTRIC METER
- EXISTING POWER POLE
- EXISTING SEWER MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- BOUNDARY LINE
- EASEMENT LINE
- EXISTING SANITARY LINE
- EXISTING FENCE
- EXISTING GAS
- EXISTING OVERHEAD POWER
- EXISTING WATER
- EXISTING FIBER OPTIC
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING GROUND SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF CURB & GUTTER SPOT ELEVATION
- PROPOSED SPOT ELEVATION



MATCH LINE - SEE SHT. C2.2

FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE

GRADING PLAN - PHASE I (SHT. 1 OF 2)



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JOB NO.:	0044013.01
DATE:	08/17/2023
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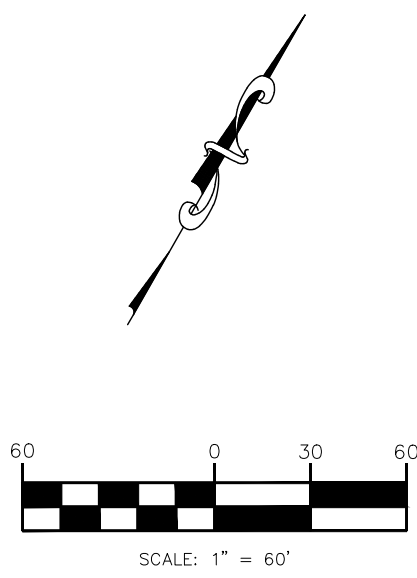
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- EXISTING GROUND SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF CURB & GUTTER SPOT ELEVATION
- PROPOSED SPOT ELEVATION



MATCH LINE - SEE SHT. C2.1



FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE

GRADING PLAN - PHASE I (SHT. 2 OF 2)

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TSPS FIRM REGISTRATION NO. 1097801

File: N:\0044013.01\06 CAD\DWG\Site Design_C3.1 EROSION CONTROL NARRATIVE.dwg Jan. 16, 2024 4:46 PM

SITE DESCRIPTION

54.724 ACRES LESS AND EXCEPT THAT 0.0139 ACRE TRACT CONVEYED TO THE STATE OF TEXAS IN DOC. NO. 20220028354, OPR DOC. NO. 20220064897, OPR.

PROJECT DESCRIPTION:

PROPERTY RECLAMATION FROM FLOOD PLAIN.

MAJOR SOIL DISTURBING ACTIVITIES:

ACTIVITIES ASSOCIATED WITH EARTHWORK INVOLVING FILL AND EXCAVATION.

TOTAL PROJECT AREA: ±54.72 AC.

TOTAL AREA TO BE DISTURBED: ±40.16 AC.

WEIGHTED RUNOFF COEFFICIENT
(AFTER CONSTRUCTION):

EXISTING CONDITION OF SOIL & VEGETATIVE
COVER AND % OF EXISTING VEGETATIVE COVER:

THE SOIL TYPE(S) ON SITE ARE AS FOLLOWS: PREDOMINANTLY "TYPE C" WITH GENERALLY LOW INFILTRATION (MODERATE RATE OF WATER TRANSMISSION).
VEGETATIVE LOW AND 50-75% GRASSES AND OTHER VEGETATION.

NAME OF RECEIVING WATERS: CIBOLO CREEK

EROSION AND SEDIMENT CONTROLS

SITE ADDRESS

IH10 & TRAINER HALE
SAN ANTONIO, TEXAS

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- X PERMANENT PLANTING, SODDING, OR SEEDING
- X MULCHING
- SOIL RETENTION BLANKET
- X BUFFER ZONES
- X PRESERVATIVE OF NATURAL RESOURCES

OTHER:

STRUCTURAL PRACTICES:

- X SILT FENCES / SEDIMENT CONTROL ROLLS
- HAY BALES
- X ROCK BERMS
- X DIVERSION , INTERCEPTOR, OR PERIMETER DIKES
- X DIVERSION , INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES
- X ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- X CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES

OTHER: PLACE EXCAVATION ON HIGH SIDE OF TRENCH.

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

TEMPORARY BEST MANAGEMENT PRACTICES & MEASURES (TBMP'S), AS APPLICABLE, WILL BE INSTALLED PRIOR TO EACH PHASE OF THE PROJECT AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THAT PHASE.

SOIL STABILIZATION PRACTICES WILL CLOSELY FOLLOW COMPLETION AND ACCEPTANCE OF CONSTRUCTION FOR EACH PROJECT PHASE.

ANTICIPATED SEQUENCE OF MAJOR DISTURBING ACTIVITIES:

CONSTRUCTION ENTRANCE / INSTALLATION OF TBMP'S
GRUBBING & CLEARING (INCLUDING THE REMOVAL OF TREES)
EXCAVATION / GRADING / FILL
ESTABLISH VEGETATIVE COVER FOR DISTURBED AREAS PER SPECIFICATIONS
REMOVE TBMP'S

STORM WATER MANAGEMENT:

THE CONTRACTOR WILL INSTALL AND MAINTAIN SEDIMENTATION AND EROSION CONTROL MEASURES AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN, TEMPORARY SEDIMENTATION & EROSION CONTROL PLAN, AND AS DIRECTED BY AUTHORIZED OFFICIALS/ENGINEER.

CONTRACTOR TO STABILIZE DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL BE TEMPORARILY STOPPED OR CONSTRUCTION BECOMES INACTIVE (FOR MORE THAN 30 DAYS) WITHIN 7 DAYS OF LAST CONSTRUCTION ACTIVITY.

CONTROL FILL, GRADING AND DITCHES TO DIRECT WATER AWAY FROM CONSTRUCTION AREAS AND INTO PROPER RUNOFF COURSES. ALL EQUIPMENT REQUIRED TO MITIGATE DAMAGING SURFACE WATER RUNOFF SHALL BE AT CONTRACTOR EXPENSE.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR:
A. NO LATER THAN 7 DAYS AFTER RAINFALL EVENT
B. WITHIN 24 HRS AFTER EVERY HALF INCH OR MORE OF RAIN (AS RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE).

CONTROLS WILL BE REPAIRED, REPLACED, AND/OR REVISED AS NECESSARY.

WASTE MATERIALS:

ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION. AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE. PRVENT WATER FROM ENTERING WASTE COLLECTION AREAS.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SUPPLIES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY

SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR

OFF SITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- X EXCESS DIRT ON ROAD REMOVED DAILY
- X STABILIZED CONSTRUCTION ENTRANCE

OTHER:

REMARKS:

DO NOT LOCATE DISPOSAL AREAS, STOCKPILES, OR HAUL ROADS IN ANY BODY OF WATER OR STREAM WITHOUT WRITTEN CONSENT OR APPROVAL OF APPROPRIATE AGENCY AND/OR ENGINEER.

OWNER'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE (OWNER/AUTHORIZED AGENT)

DATE

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION PLAN.

SIGNATURE (CONTRACTOR)

DATE

NO.	DATE	REVISIONS	BY

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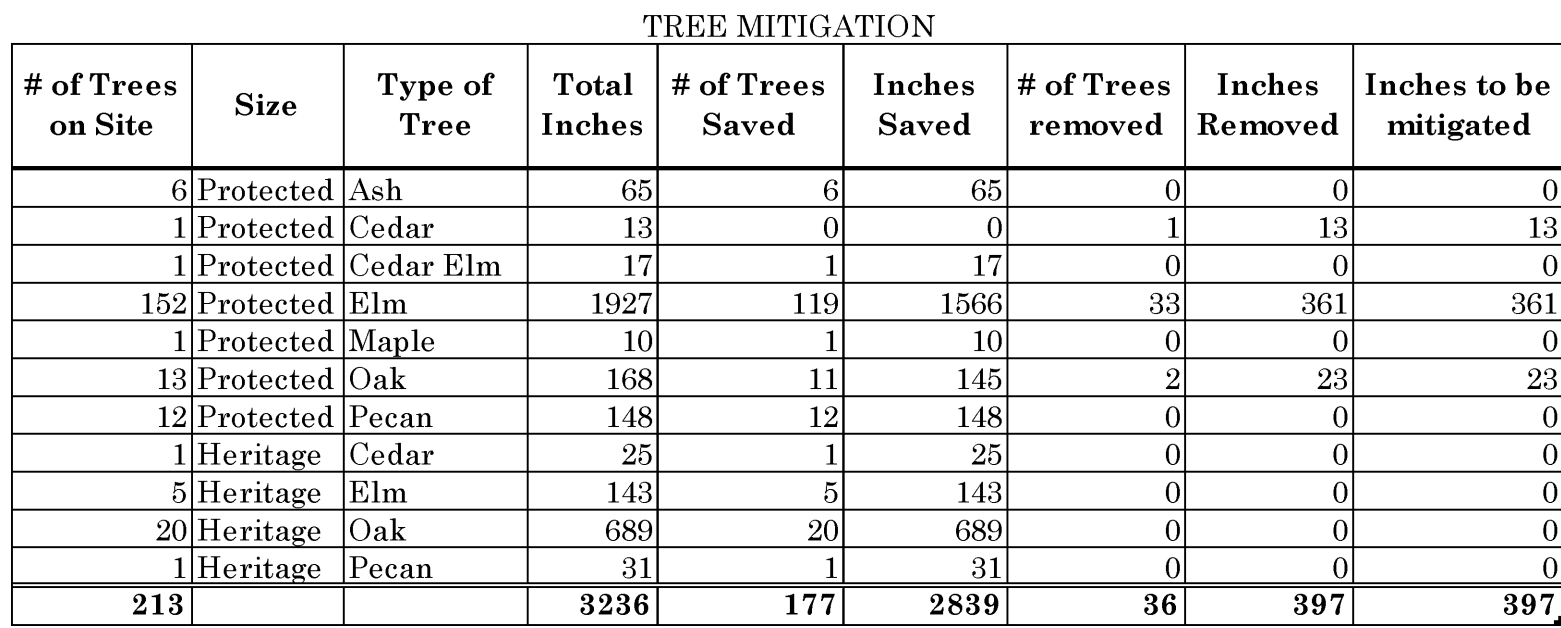


FLOOD RECLAMATION PROJECT
IH10 AND TRAINER HALE
EROSION CONTROL NARRATIVE

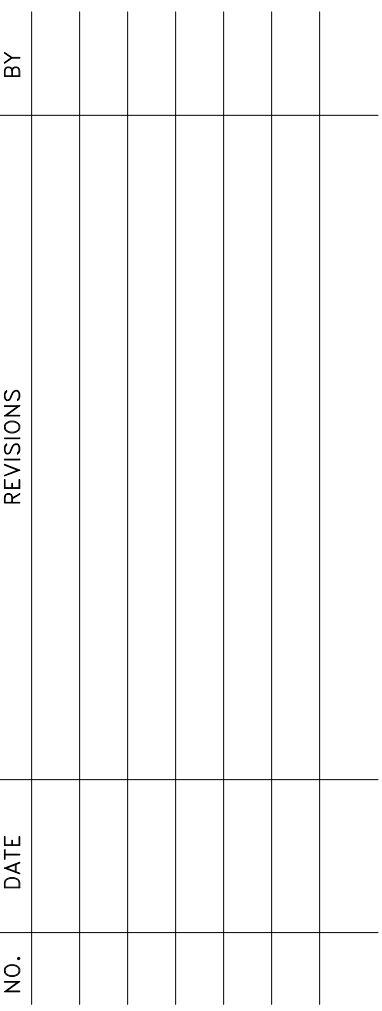
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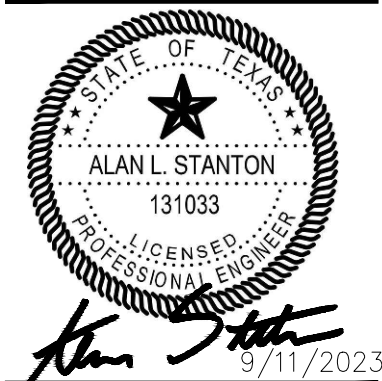
Total Mitigation Payment \$ 39,700.00



Westwood

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FLOOD RECLAMATION PROJECT IH10 AND TRAINER HALE

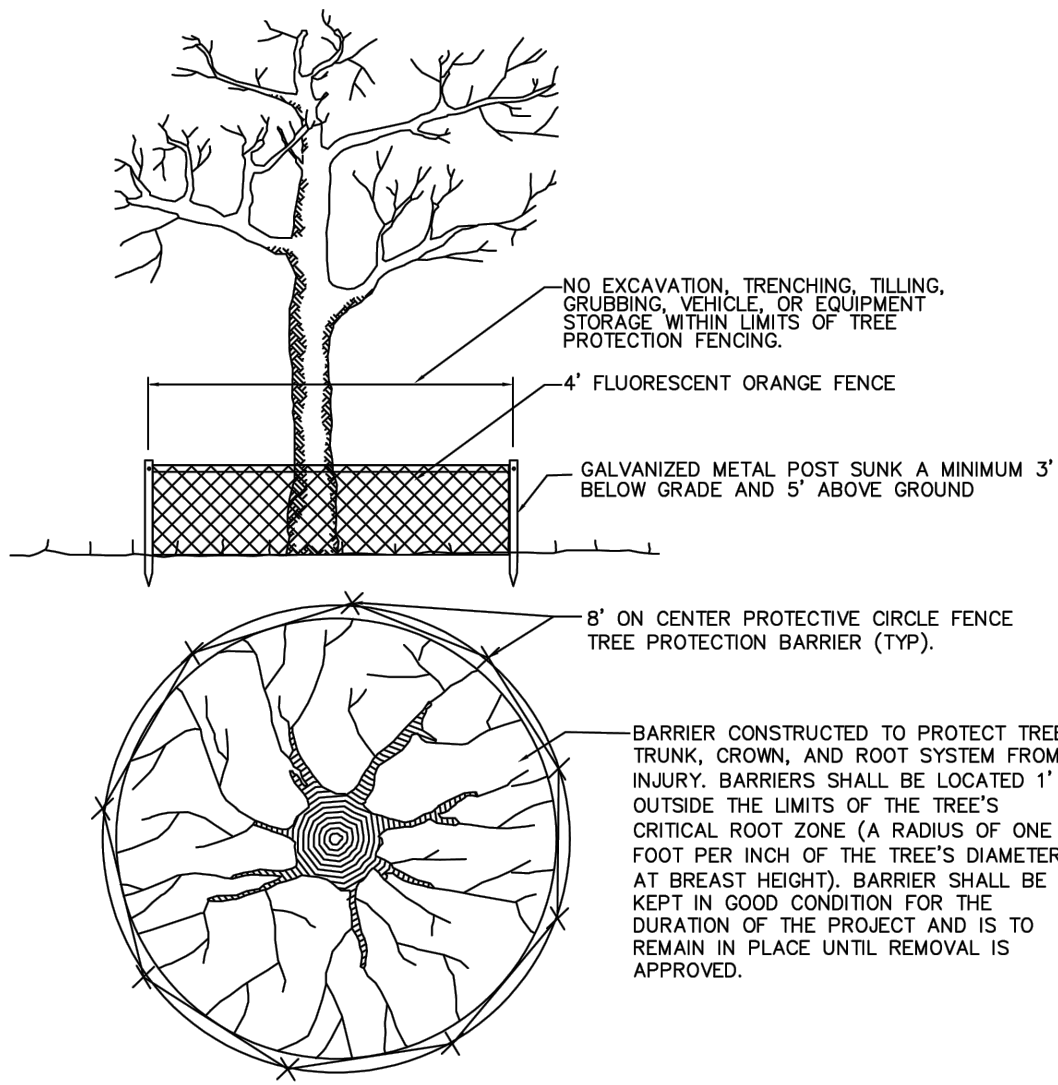
TREE PRESERVATION PLAN

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C4.0

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ADDITIONAL REQUIREMENTS FOR WORK WITHIN THE CRITICAL ROOT ZONE

- ESTABLISH FENCE PROTECTION A MINIMUM OF 5' FROM TRUNK
- PROVIDE 4" DEEP WOOD CHIP MULCH OVER CRITICAL ROOT ZONE INSIDE FENCE PROTECTION
- PROVIDE 8" DEEP WOOD CHIP MULCH OVER DRIP LINE OUTSIDE OF FENCE PROTECTION.
- MAKE CLEAN CUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
- PROVIDE TEMPORARY IRRIGATION WHERE REQUIRED BY THE CITY

GENERAL NOTES

1. A TREE PRESERVATION/REMOVAL PERMIT APPLICATION MUST BE SUBMITTED AND APPROVED.
2. A LANDSCAPING PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.
3. PROVIDE TIMBER WRAP PROTECTION FOR TREES WHEN WORK IS REQUIRED WITHIN CONSTRUCTION FENCING. INSTALL VERTICAL 6 TO 8 FOOT LONG 2 BY 4s OR 2 BY 5s, SPACED 3 TO 5 INCHES APART, AROUND CIRCUMFERENCE OF TREE TRUNK.
4. FOR TREES OR SHRUBS IN PAVED AREAS, USE MOVABLE POSTS CONSISTING OF 2 1/2" MINIMUM DIAMETER CONCRETE FILLED STEEL PIPE MOUNTED IN RUBBER AUTOMOBILE TIRES WITH CONCRETE.

SCHERTZ
COMMUNITY • SERVICE • OPPORTUNITY

STANDARD DETAIL 01562

TREE AND PLANT PROTECTION
TECHNICAL SPECIFICATION SECTION 01562

SCALE: 1" = 1'-0" DATE: 07/20/2023
DESIGN BY: ENR DRAWN BY: JES REVISION NO.: 1 OF 2

PT #	Type	Species	DBH	REMOVE			PRESERVE
				Exempt	Mitigate	Replace	
6641	Heritage	Cedar	25				25
4302	Heritage	Elm	28				28
4319	Heritage	Elm	27				27
4321	Heritage	Elm	25				25
4339	Heritage	Elm	36				36
4343	Heritage	Elm	27				27
4330	Heritage	Mesquite	24				24
6414	Heritage	Mesquite	28	28			
6539	Heritage	Mesquite	24				24
6545	Heritage	Mesquite	24				24
6556	Heritage	Mesquite	26				26
6559	Heritage	Mesquite	25				25
6566	Heritage	Mesquite	32				32
6577	Heritage	Mesquite	36				36
6578	Heritage	Mesquite	25				25
6594	Heritage	Mesquite	26				26
6599	Heritage	Mesquite	34				34
6653	Heritage	Mesquite	30				30
6679	Heritage	Mesquite	28				28
6680	Heritage	Mesquite	27				27
6682	Heritage	Mesquite	24				24
6502	Heritage	Oak	49				49
6503	Heritage	Oak	26				26
6504	Heritage	Oak	42				42
6505	Heritage	Oak	26				26
6506	Heritage	Oak	47				47
6507	Heritage	Oak	34				34
6508	Heritage	Oak	33				33
6509	Heritage	Oak	38				38
6510	Heritage	Oak	37				37
6511	Heritage	Oak	31				31
6512	Heritage	Oak	40				40
6513	Heritage	Oak	28				28
6514	Heritage	Oak	40				40
6516	Heritage	Oak	37				37
6517	Heritage	Oak	33				33
6518	Heritage	Oak	34				34
6519	Heritage	Oak	27				27
6521	Heritage	Oak	24				24
6522	Heritage	Oak	34				34
6523	Heritage	Oak	29				29
6486	Heritage	Pecan	31				31
6586	Protected	Ash	11				11
6592	Protected	Ash	13				13
6593	Protected	Ash	13				13
6601	Protected	Ash	10				10
6611	Protected	Ash	10				10
6612	Protected	Ash	8				8
5594	Protected	Cedar	13		13		
6642	Protected	Cedar Elm	17				17
6334	Protected	Chinaberry	11				11
6570	Protected	Chinaberry	12				12
4301	Protected	Elm	18				18
4303	Protected	Elm	10				10
4304	Protected	Elm	17				17
4305	Protected	Elm	18				18
4306	Protected	Elm	13				13
4307	Protected	Elm	17				17
4308	Protected	Elm	14				14
4311	Protected	Elm	17				17
6114	Protected	Elm	11				11
4316	Protected	Elm	9				9
4320	Protected	Elm	15				15
4325	Protected	Elm	11				11
4326	Protected	Elm	9				9
4327	Protected	Elm	15				15
4328	Protected	Elm	12				12
4329	Protected	Elm	12				12
4331	Protected	Elm	12				12
4333	Protected	Elm	15				15
4334	Protected	Elm	15				15
4335	Protected	Elm	15				15
4336	Protected	Elm	17				17
4337	Protected	Elm	15				15
4338	Protected	Elm	11				11
4340	Protected	Elm	15				15
4341	Protected	Elm	11				11
4342	Protected	Elm	18				18
4344	Protected	Elm	10				10
4345	Protected	Elm	14				14
4346	Protected	Elm	12				12
4347	Protected	Elm	12				12
4348	Protected	Elm	12				12
4349	Protected	Elm	12				12
4350	Protected	Elm	12				12
4351	Protected	Elm	10				10
4352	Protected	Elm	12				12
4353	Protected	Elm	9				9
5536	Protected	Elm	14				14
5537	Protected	Elm	12				12
5538	Protected	Elm	21				21
5539	Protected	Elm	11				11
5540	Protected	Elm	12				12
5541	Protected	Elm	10				10
5542	Protected	Elm	12				12
5543	Protected	Elm	13				13
5544	Protected	Elm	12				12

PT #	Type	Species	DBH	REMOVE			PRESERVE
				Exempt	Mitigate	Replace	
5545	Protected	Elm	9				9
5546	Protected	Elm	8				8
5547	Protected	Elm	9				9
5548	Protected	Elm	17				17
5549	Protected	Elm	23				23
5550	Protected	Elm	8				8
5551	Protected	Elm	11				11
5552	Protected	Elm	16				16
5553	Protected	Elm	14				14
5554	Protected	Elm	17				17
5555	Protected	Elm	9				9
5556	Protected	Elm	15				15
5558	Protected	Elm	9				9
5559	Protected	Elm	20				20
5560	Protected	Elm	16				16
5561	Protected	Elm	11				11
5562	Protected	Elm	16				16
5564	Protected	Elm	8				8
5565	Protected	Elm	8				8
5566	Protected	Elm	11				11
5567	Protected	Elm	10		10		
5568	Protected	Elm	8		8		
5569	Protected	Elm	12		12		
5570	Protected	Elm	13		13		
5574	Protected	Elm	12		12		
5576	Protected	Elm	8		8		
5578	Protected	Elm	9		9		
5580	Protected	Elm	10		10		
5581	Protected	Elm	8		8		
5583	Protected	Elm	11		11		
5587	Protected	Elm	8		8		
5589	Protected	Elm	11		11		
5593	Protected	Elm	8		8		
5596	Protected	Elm	10		10		
5597	Protected	Elm	10				10
5598	Protected	Elm	11		11		
6390	Protected	Elm	9		9		
6392	Protected	Elm	9		9		
6399	Protected	Elm	9		9		
6400	Protected	Elm	16		16		
6402	Protected	Elm	14		14		
6405	Protected	Elm	10		10		
6406	Protected	Elm	11		11		
6409	Protected	Elm	19		19		
6425	Protected	Elm	15		15		
6426	Protected	Elm	19		19		
6427	Protected	Elm	11		11		
6447	Protected	Elm	16				16
6450	Protected	Elm	18				18
6453	Protected	Elm	11		11		
6454	Protected	Elm	9		9		
6455	Protected	Elm	8		8		
6456	Protected	Elm	11		11		
6457	Protected	Elm	10		10		
6458	Protected	Elm	11		11		
6459	Protected	Elm	10		10		
6476	Protected	Elm	10				10
6485	Protected	Elm	14				14
6375	Protected	Elm	13				13
6488	Protected	Elm	15		15		
6490	Protected	Elm	11		11		
6491	Protected	Elm	13		13		
6492	Protected	Elm	9		9		
6493	Protected	Elm	20		20		
6617	Protected	Elm	18		18		
6618	Protected	Elm	12		12		
6619	Protected	Elm	11		11		
6624	Protected	Elm	15		15		
6625	Protected	Elm	14		14		
6626	Protected	Elm	12		12		
6627	Protected	Elm	12		12		
6628	Protected	Elm	10		10		
6643	Protected	Elm	13		13		
6646	Protected	Elm	11		11		
6647	Protected	Elm	14		14		
6648	Protected	Elm	11		11		
6649	Protected	Elm	18		18		
6651	Protected	Elm	20		20		
6657	Protected	Elm	9		9		
6658	Protected	Elm	14		14		
6659	Protected	Elm	11		11		
6660	Protected	Elm	15		15		
6661	Protected	Elm	14		14		
6662	Protected	Elm	17		17		
6668	Protected	Elm	10		10		
6669	Protected	Elm	11		11		
6670	Protected	Elm	16		16		
6672	Protected	Elm	18		18		
6673	Protected	Elm	16		16		
6674	Protected	Elm	11		11		
6675	Protected	Elm	13		13		
6676	Protected	Elm	8		8		
6677	Protected	Elm	11		11		
6683	Protected	Elm	10		10		
6685	Protected	Elm	12		12		
6686	Protected	Elm	14		14		
6687	Protected	Elm	11		11		
6688	Protected	Elm	10		10		
6689	Protected	Elm	16		16		
6690	Protected	Elm	19		19		

PT #	Type	Species	DBH	REMOVE			PRESERVE
				Exempt	Mitigate	Replace	
6691	Protected	Elm	13				13
6692	Protected	Elm	18				18
6693	Protected	Elm	12				12
6694	Protected	Elm	12				12
6695	Protected	Elm	8				8
6697	Protected	Elm	12				12
6698	Protected	Elm	9				9
4354	Protected	Hack	10				10
4309	Protected	Hackberry	19				19
4310	Protected	Hackberry	13				13