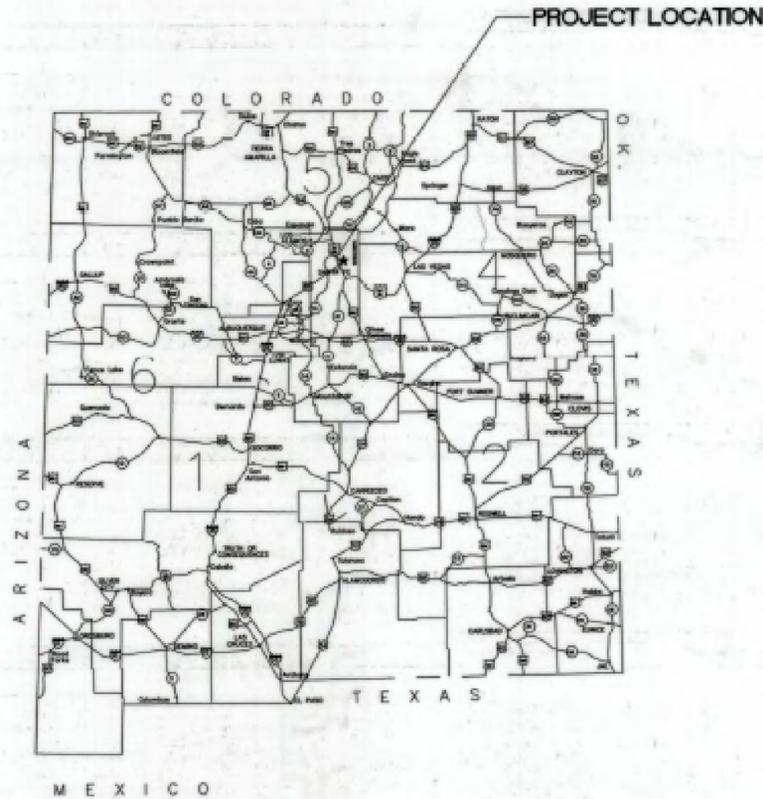


SANTA FE RIVER TRAIL and RIVER RESTORATION PHASE 3 Frenchy's Bridge to Camino Alire

WESTON SOLUTIONS, INC.
3840 COMMONS AVE. NE
ALBUQUERQUE, NM 87109
505-837-6520



REVISIONS
NO. KEY DATE DESCRIPTION

DESIGNED BY: RMO
DRAWN BY: SA, JG, CP
REVIEWED BY:
DATE: 20OCT10

APPROVALS

	DATE

APPROVED BY CITY OF SANTA FE
[Signature] 12-21-10
CITY PUBLIC WORKS DIRECTOR DATE

APPROVED BY CITY OF SANTA FE
MAYOR'S COMMITTEE ON DISABILITY
[Signature] 12/20/10
CITY ADA COORDINATOR DATE

APPROVED BY CITY OF SANTA FE
[Signature] 12/20/10
CITY ENGINEERING DIVISION DIRECTOR DATE

REVIEWED BY HISTORIC PRESERVATION DIVISION
[Signature] 1.3.11
CITY HISTORIC PRESERVATION DIVISION DATE

SANTA FE RIVER TRAIL
PHASE 3
DRAWINGS
PROJECT NO. 14592.001.001
SHEET 1-1 TOTAL 52

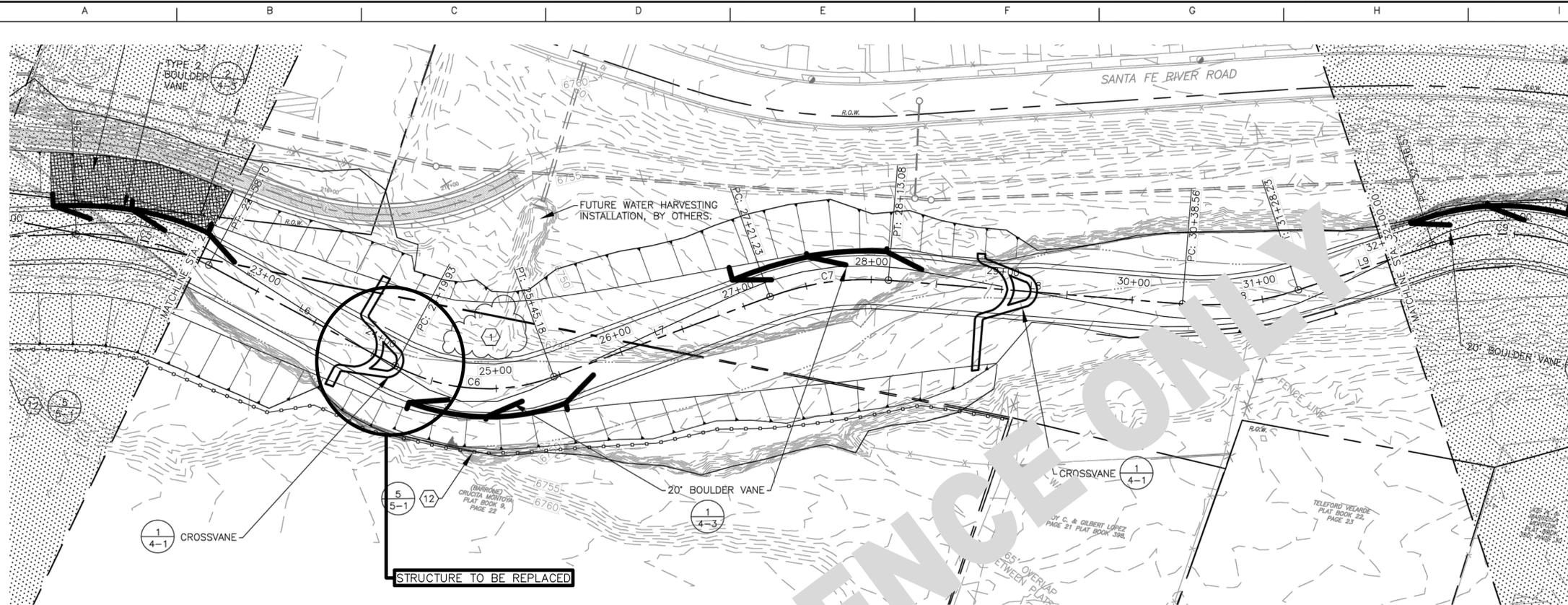
CIP #500B

COVER (ORIGINAL)

KEYED NOTES

- EXISTING VEGETATION TO REMAIN UNDISTURBED AT EDGE OF EXISTING CHANNEL. COORDINATE LIMITS OF PROTECTION WITH PROJECT LANDSCAPE ARCHITECT PRIOR TO CUTTING OVERBANK TERRACE.
- INSTALL APPROXIMATELY 865 LF OF SPLIT 2-RAIL FENCE AT TOP OF SLOPE. COORDINATE FINAL LOCATION WITH ENGINEER.

(NOT APPLICABLE)



Curve Table: Alignments

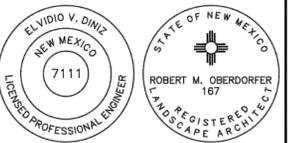
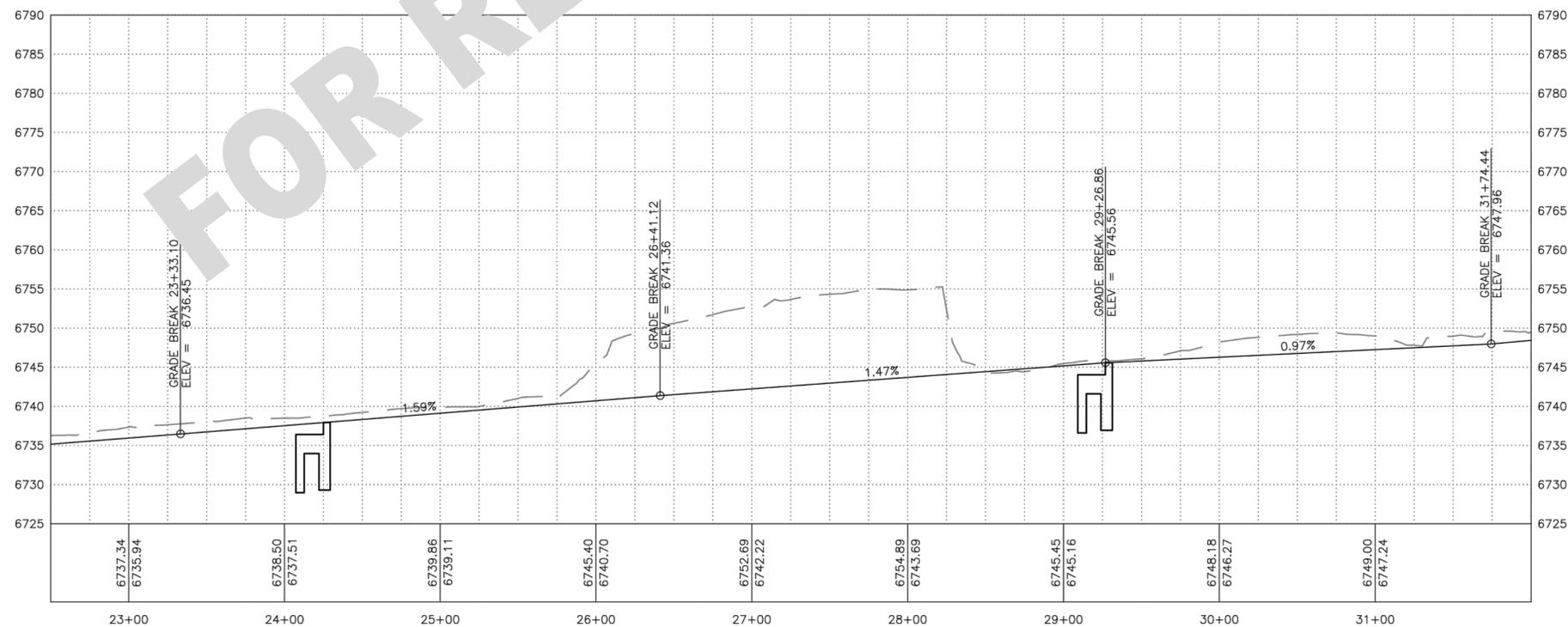
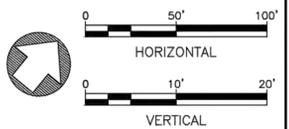
Curve #	Delta Angle	External Tangent	Radius	Degree of Curvature by Arc	Length
C6	48°23'04"	66.63	148.32	38.631	125.25
C7	24°46'26"	46.66	212.44	26.971	91.85
C8	22°50'04"	45.44	225.00	25.465	89.67

Line Table: Alignment

Line #	Length	Direction
L6	161.83	N 0° 0' 5" E
L7	176.00	N 30° 0' 0" E
L8	200.00	N 14° 0' 0" E
L9	108.00	N 32° 24' 0" E

GENERAL NOTES

- NOTE THAT FIELD CONDITIONS MAY HAVE CHANGED (IN SOME CASES, SUBSTANTIALLY) FROM THE TOPOGRAPHIC DATA PROVIDED HEREIN. CONTRACTORS SHOULD FAMILIARIZE THEMSELVES WITH CURRENT CONDITIONS AND BE AWARE OF ANY DISCREPANCIES.
- INSTALLATION REFERENCE POINTS FOR EACH BOULDER STRUCTURE INDICATED IN TABLES PROVIDED IN RESPECTIVE DETAILS (REFER TO REFERENCE SYMBOL (S)).



REVISIONS

NO.	KEY	DATE	DESCRIPTION

DESIGNED BY: RMO
 DRAWN BY: SA, JG, CP
 REVIEWED BY: --
 DATE: 20OCT10

BENCH MARK

STATE PLANE COORDINATES
 NAD83 ZONE 3002 AND NAVD 88
 DERIVED FROM SANTA FE COUNTY
 MONUMENTS
 HUD2
 1697361.979N 1709216.135E
 6671.870EL
 AND
 CSFC-51
 1708918.843N 1725759.088E
 7044.137EL
 FROM 1992 BLUE BOOK REPORT

ZONE MAP NO.

SANTA FE RIVER TRAIL
 PHASE 3

PROJECT NO. 14592.001.001

SHEET 3-7 TOTAL 52

SHEET 3 OF 12

CONSTRUCTION
 PLANS (ORIGINAL)

GOVERNING SPECIFICATIONS

- 1) THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, REGULATIONS, AND RULES WHICH APPLY TO THIS PLAN SET. THIS SHALL INCLUDE ALL ADA REGULATIONS.
- 2) SPECIFICATIONS FOR THIS PROJECT WILL BE THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION." REFERENCES TO "THE CITY" SHALL IMPLY THE CITY OF SANTA FE FOR THIS PROJECT. IN THE EVENT OF A CONFLICT AMONG CODES, THE NMDOT STANDARDS AND SPECS SHALL GOVERN.

MONUMENTATION INFORMATION

- 1) INFORMATION PERTAINING TO THE MONUMENTATION FOR THIS PROJECT MAY BE OBTAINED FROM THE SANTA FE COUNTY PROJECTS AND FACILITY MANAGEMENT DEPARTMENT - GIS DIVISION AT 505-995-2732.
- 2) PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. AN INVENTORY OF THE EXISTING MONUMENTS WILL BE TAKEN BY THE PROJECT MANAGER AND THE CONTRACTOR WITH ACKNOWLEDGEMENTS PRIOR TO START OF CONSTRUCTION. IF, DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK," NATIONAL GEODETIC SURVEY, MARCH 1999. CONTACT # NGS MARK PRESERVATION CENTER-NOAA, TELEPHONE 505-768-3606. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

TRAFFIC CONTROL

- 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FOR TRAFFIC CONTROL PROCEDURES FROM CITY OF SANTA FE PUBLIC WORKS.
- 2) THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL TRAFFIC CONTROL PROCEDURES AND MATERIALS. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, SEVEN (7) DAYS PER WEEK TO INSPECT AND MAINTAIN TRAFFIC CONTROL DEVICES AS DIRECTED BY THE PROJECT MANAGER.
- 3) THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A TRAFFIC CONTROL DIARY, WHICH SHALL BE AVAILABLE FOR REVIEW BY THE CITY PROJECT MANAGER. COST OF THIS WORK IS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONSTRUCTION TRAFFIC CONTROL.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION ZONE BY ENSURING THAT ALL NECESSARY SAFETY PRECAUTIONS ARE TAKEN, AS REQUIRED BY FEDERAL, STATE, AND LOCAL AUTHORITIES, INCLUDING, BUT NOT LIMITED TO: GUARD FENCES, BARRICADES, LIGHTS, AND WARNING SIGNS.
- 5) PUBLIC ACCESS TO LOCAL BUSINESSES, RESIDENCES AND ROADWAYS: THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES AND ALL LOCAL ROADWAYS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND THE PROJECT MANAGER.
- 6) THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS LISTED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 7) ALL DEVICES SHALL ADHERE TO THE REQUIREMENTS OF SECTION 702 - CONSTRUCTION TRAFFIC CONTROL DEVICES IN THE 2014 EDITION OF THE NMDOT STANDARD SPECIFICATIONS BOOK.
- 8) ANY PROPOSED CHANGES TO THE CONSTRUCTION SEQUENCE AND/OR TRAFFIC CONTROL PLAN MUST BE SUBMITTED BY THE CONTRACTOR TO THE PROJECT MANAGER FOR APPROVAL. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM CHANGES TO THE CONSTRUCTION SEQUENCE OR TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A LETTER OF JUSTIFICATION FOR THE CHANGES WITH THE FOLLOWING ITEMS INCLUDED:
 - A REVISED TRAFFIC CONTROL PLAN INCLUDING A SUMMARY OF QUANTITIES AND A COST ESTIMATE.
 - THE REVISED TRAFFIC CONTROL PLAN SHALL BE DRAFTED ON 11X17 PAPER AND SEALED BY A LICENSED ENGINEER. THE SUBMITTAL PAPER SHALL MEET CURRENT DRAFTING STANDARDS.
 - CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE CITY AT LEAST ONE (1) WEEK IN ADVANCE OF THE IMPLEMENTING CHANGES TO THE FILE.

GENERAL CONSTRUCTION

- 1) THE CONTRACTOR SHALL PROVIDE A LIST OF CONTACT PERSONNEL RESPONSIBLE FOR SITE CONSTRUCTION INCLUDING POSITION, TELEPHONE NUMBERS, AND AT LEAST ONE EMERGENCY TELEPHONE NUMBER ACTIVE ON A 24-HOUR BASIS.
- 2) ANY TEMPORARY ACCESS ROUTES FOR PEDESTRIANS AND BICYCLISTS SHALL BE COMPLIANT WITH A.D.A. REQUIREMENTS.
- 3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A YARD SITE SUITABLE TO STORE ALL EQUIPMENT AND MATERIALS TO BE USED ON THIS PROJECT. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT PERMISSION FROM THE PROJECT MANAGER. ALL COSTS ASSOCIATED WITH THIS YARD, INCLUDING TAXES, SHALL BE BORNE BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
- 4) MAINTENANCE OF AS-BUILT PLANS: THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT WITHIN ONE WEEK AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER AT THE TIME OF FINAL WALK-THROUGH, PRIOR TO FINAL PAYMENT.
- 5) CONTRACTOR SHALL RECORD DATA REGARDING ALL UTILITY LINES AND ACCESSORIES FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- 6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY ARRANGEMENT FOR OBTAINING THE WATER NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHOULD CONTACT THE CITY'S WASTEWATER DIVISION AT 955-4650 FOR MORE INFORMATION AND PRICING REGARDING THE USE, AND PRICING OF THE FIRE HYDRANT WATER METERING, IF AVAILABLE. ANY ASSOCIATED COSTS WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- 7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS MAY BE DESIGNATED BY THE PROJECT MANAGER. ALL REMOVALS, UNLESS OTHERWISE INDICATED, WILL BE INCIDENTAL TO CLEARING AND GRUBBING.
- 8) ANY SALVAGEABLE MATERIALS REMOVED FROM THIS PROJECT SHALL BE HAULED AND STOCKPILED AT A LOCAL LOCATION DETERMINED BY THE OWNER'S REPRESENTATIVE. HAUL OF SUCH MATERIALS SHALL BE INCIDENTAL TO BID ITEM 201000, CLEARING AND GRUBBING.
- 9) THE CONTRACTOR WILL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR NEW RIGHT-OF-WAY LIMITS. PARKING OF PRIVATE VEHICLES SHALL NOT BE ALLOWED ALONG CONSTRUCTION AREAS THROUGHOUT THE CONSTRUCTION LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROHIBIT VEHICLES AND EQUIPMENT FROM DRIVING UPON, ACROSS, OR TURNING ON PRIVATE PROPERTY ADJACENT TO PROJECT LIMITS.
- 10) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO ANY PUBLIC OR PRIVATE PROPERTY, INCLUDING EXISTING WALLS, FENCES, SIDEWALKS, TRAIL SURFACES, SEWER OR WATER LINES, VALVE BOXES, MANHOLES, CURB AND GUTTER, ETC., DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ANY EXISTING DAMAGE PRIOR TO START OF CONSTRUCTION.
- 11) ALL DIMENSIONS ON PLANS ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION AND/OR MODIFICATIONS IN NECESSARY TO FIT EXISTING CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK AND COORDINATE ANY REQUIRED CHANGES WITH THE PROJECT ENGINEER.
- 12) CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL REMOVE ANY GRAFFITI WITHIN 24 HOURS FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 13) ALL QUANTITIES SCHEDULED IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. PAYMENT AND MEASUREMENT OF QUANTITIES SHALL BE DONE IN ACCORDANCE WITH SECTION 109 - MEASUREMENT AND PAYMENT, OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION.
- 14) THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER A CRITICAL PATH PROJECT SCHEDULE, INCLUDING WEEKLY CONSTRUCTION MEETINGS WITH PRE-SET DATES, TWO (2) WEEKS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE SCHEDULE SHALL BE UPDATED MONTHLY OR AS REQUIRED BY THE PROJECT MANAGER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 15) CITY OF SANTA FE NOISE ORDINANCE SFCC S 10-2.4B.(5)(A) PROHIBITS OPERATION OF EQUIPMENT USED IN CONSTRUCTION WORK ON STREETS IN RESIDENTIAL OR COMMERCIAL ZONED AREAS BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. THE FOLLOWING DAY. IN ACCORDANCE WITH SFCC S 10-2.8 PERMITS, THE CONTRACTOR MAY REQUEST APPROVAL OF A PERMIT TO BE EXEMPT FROM THE AFOREMENTIONED NOISE ORDINANCE FOR THE DURATION OF PROJECT CONSTRUCTION.
- 16) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TREES AND OTHER VEGETATION TO REMAIN, PER THE REQUIREMENTS IDENTIFIED IN THESE PLANS. SEE DEMOLITION AND PLAN & PROFILE SHEET FOR ADDITIONAL INFORMATION.

EARTHWORK

- 1) THE EARTHWORK QUANTITIES ARE BASED ON FINAL VOLUMES COMPACTED IN PLACE. ON-SITE EXCAVATION AND BACKFILL QUANTITY IS BASED ON AN ASSUMED SHRINKAGE FACTOR OF 20%.
- 2) UNLESS OTHERWISE STATED WITHIN THIS PLAN SET, ALL SIDESLOPES SHALL BE 3H:1V MAXIMUM, KEEPING SLOPES FLATTER WHEREVER POSSIBLE AS DIRECTED BY THE PROJECT MANAGER. SLOPES SHALL TRANSITION SMOOTHLY TO EXISTING GRADES AND ADJACENT STRUCTURES IN ALL CASES. THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS, OR TO MEET EXISTING STRUCTURES.
- 3) MATERIAL PITS: NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE COURSE. ALL MATERIAL PIT ACTION SHALL BE GOVERNED BY SECTION 106 OF THE STANDARD SPECIFICATIONS.
- 4) ALL EXCAVATION TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29, CFR 1926.650, SUBPART P.
- 5) THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35-TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION FOR EMBANKMENT AND SUBGRADE ADJACENT TO VERTICAL BANKS, WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER STRUCTURES, OR CAUSE SLOPE FAILURE.
- 6) CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED OR DEPOSITED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET, INTO STORM DRAIN SYSTEMS, THE RIVER, OR DOWN ARROYOS.
- 7) FIELD VERIFICATION: THE CONTRACTOR SHALL FIELD VERIFY THE GRADES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IF THERE IS A DISCREPANCY BETWEEN INDICATED EXISTING ELEVATIONS OR PROPOSED GRADE ELEVATIONS AND THE ACTUAL GRADE ELEVATIONS DETERMINED ON SITE, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER TO DETERMINE WHAT CORRECTIONS NEED TO BE APPLIED. THIS WORK WILL BE PAID FOR UNDER THE CONTRACT PRICE FOR ITEM NUMBER 801000 "CONSTRUCTION STAKING BY THE CONTRACTOR" AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- 8) CONSTRUCTED GRADES SHALL BE WITHIN +/- 0.05' OF PLAN ELEVATIONS.
- 9) GRADING SHALL BE COMPLETED UNDER THE AUTHORITY OF A BUILDING PERMIT. THE APPLICATION OF WHICH SHALL SHOW THE TYPE OF WORK AS "OTHER" WITH THE NOTATION OF GRADING, LANDSCAPING, AND INFRASTRUCTURE SHOWN THEREON. CALL 505-955-6948 FOR PERMIT INFORMATION.

UTILITIES

- 1) ** WARNING ** - EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN APPROXIMATE MANNER ONLY, AND OTHER SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- 2) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN WORKING NEAR THEIR SYSTEMS. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL NEW MEXICO ONE CALL SYSTEM AT 1-800-321-2537, 48 HOURS PRIOR TO EXCAVATING, REGARDING LOCATION OF EXISTING UTILITIES. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE ITS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- 3) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES AND THEIR APPURTENANCES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR. DAMAGES OR REPAIRS THAT OCCUR DURING CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR. THE INCIDENTAL WORK SHALL ALSO INCLUDE ANY POT-HOLING OR OTHER WORK REQUIRED TO VERIFY UTILITIES.
- 4) CONTRACTOR SHALL COORDINATE WITH THE CITY OF SANTA FE WATER (505-955-4202) AND/OR WASTEWATER (505-955-4650) DIVISION(S) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER AND/OR SEWER UTILITIES.

UTILITY CONTACTS		
UTILITY	ENTITY	TELEPHONE
WATER	SANGRE DE CRISTO WATER CO. CITY OF SANTA FE	955-4265 955-4333 (EMERGENCY)
SEWER	CITY OF SANTA FE PUBLIC UTILITIES	955-6666
GAS	NEW MEXICO GAS	473-7228 888-664-2726 (EMERGENCY)
ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM)	473-3209 950-1997 (EMERGENCY)
CITY OF SANTA FE STREETS AND DRAINAGE	DAVID CATANACH	505-955-2402
STORMWATER INFRASTRUCTURE	DAVID PIKE	955-2134
RIVER COORDINATOR	MELISSA MCDONALD	955-6840

SUMMARY OF QUANTITIES

BID ITEM NO.	SPEC NO.	SHORT DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITIES
BASE BID					
1	203000	UNCLASSIFIED EXCAVATION/CHANNEL GRADING, INCL PLACEMENT AND COMPACTION, CIP	CY	7570	
2	303251	GRADED GRAVEL BASE COURSE/BACKFILL, CIP	CY	110	
3	602020	CLASS C RIPRAP, PLACED AND COMPACTED, CIP	CY	200	
4	602071	BOULDER GRADE CONTROL STRUCTURE (UNROUTED), CIP (TOP SURFACE AREA) *	SF	550	
5	602072	BOULDER WALL BANK PROTECTION (UNROUTED), CIP (FACE AREA) *	SF	1800	
6	602073	BOULDER RUNDOWN, GROUTED, CIP *	SF	825	
7	604002	GEOTEXTILE, CLASS 2, INSTALLED	SY	120	
8	621000	CONSTRUCTION MOBILIZATION	LS	1	
9	632020	NATIVE SEEDING, CLASS C	SF	5200	
10	632050	WILLOW WHIP POLE PLANTINGS, INSTALLED	EA	120	
11	702000	TRAFFIC CONTROL	LS	1	
12	801000	CONST. STAKING BY CONTRACTOR	LS	1	
13	901000	QC/QA TESTING ALLOWANCE	ALLOW	1	
ADDITIVE ALTERNATE					
14	203000	UNCLASSIFIED EXCAVATION/CHANNEL GRADING, INCL PLACEMENT AND COMPACTION, CIP (LESS TOTAL EXCAVATION REQUIRED, STA 0+20 TO 3+50)	CY	-1770	
15	303251	GRADED GRAVEL BASE COURSE/BACKFILL, CIP	CY	15	
16	602020	CLASS C RIPRAP, PLACED AND COMPACTED, CIP	CY	25	
17	602071	INSTALL UPSTREAM BOULDER GRADE CONTROL STRUCTURE (UNROUTED), CIP (TOP SURFACE AREA)	SF	650	
18	604002	GEOTEXTILE, CLASS 2, INSTALLED	SY	60	
19	632020	ADDITIONAL NATIVE SEEDING	SF	400	
20	632050	WILLOW WHIP BUNDLES (3 CUTTINGS PER BUNDLE), INSTALLED	EA	20	

* NOTE: BOULDER STRUCTURES WILL INCORPORATE APPROXIMATELY 50-60 BOULDERS COLLECTED ON SITE. BALANCE OF BOULDERS REQUIRED FOR CONSTRUCTION SHALL BE PROVIDED BY CONTRACTOR FROM OUTSIDE SOURCES.



121 TIJERAS NE SUITE 3100
ALBUQUERQUE, NM 87102
PHONE: 505-822-8200
FAX: 505-822-8282
E-MAIL: mail@sites-sw.com
WEB: www.sites-sw.com

PLANNING
LANDSCAPE ARCHITECTURE
MARKET ANALYSIS



RIVERBEND ENGINEERING, LLC



PROJECT
**SANTA FE RIVER
CROSSVANE REPAIR**
AT CALLE DON JOSE
STORM DRAIN OUTFALL

ADDRESS

MARK	DATE	DESCRIPTION
	MAY 2016	
PROJECT NO: 2016034		
CAD DWG FILE: 2016034_COVER_95PCT.DWG		
DRAWN BY: AKB		
CHK'D BY: RMO		
COPYRIGHT: Sites Southwest		

MARK	DATE	DESCRIPTION
	MAY 2016	

PROJECT NO: 2016034
CAD DWG FILE: 2016034_COVER_95PCT.DWG
DRAWN BY: AKB
CHK'D BY: RMO
COPYRIGHT: Sites Southwest

SHEET TITLE

**GENERAL NOTES,
SUMMARY QUANTITIES**

SHEET 4 OF 12



NEW MEXICO
ENVIRONMENT DEPARTMENT
Surface Water Quality Bureau JUN 29 2010
Harold Rummels Building, N2050
1190 South St. Francis Drive #87505
P.O. Box 5469, Santa Fe, NM 87502
Phone (505) 827-0187 Fax (505) 827-0160
www.nmenv.state.nm.us

BILL RICHARDSON
Governor
DIANE DENISH
Lieutenant Governor

June 24, 2010

CERTIFIED MAIL NO. 7008 1830 0003 4174 5623

Mr. Brian K. Drypolcher
City of Santa Fe, Watershed and Trails Section, Engineering Division
POB 909
Santa Fe, New Mexico 87504-0909

Subject: Clean Water Act Section 401 Water Quality Certification for NMED SWQB File SF-507: Santa Fe River Restoration, Santa Fe County, New Mexico.

Dear Mr. Drypolcher,

The Surface Water Quality Bureau (SWQB) of the New Mexico Environment Department has examined the application for the project indicated above under Sections 404 and 401 of the federal Clean Water Act. According to the application, this project involves installing trails, channel and bank stabilization, and revegetation along at the Santa Fe River between Camino Alire and Camino Carlos Real. Gannett Fleming West, Inc. is acting as agent on your behalf.

The U.S. Army Corps of Engineers (USACE) will regulate this project under Nationwide Permit NW-27 (USACE Action SPA-2009-00765-ABQ). A state Water Quality Certification is required by Section 401 of the federal Clean Water Act to ensure that the project complies with the State of New Mexico water quality standards (State of New Mexico, Standards for Interstate & Intrastate Surface Waters, New Mexico Water Quality Control Commission, 20.6.4 New Mexico Administrative Code (NMAC) amendments effective on August 1, 2007). A Section 401 Water Quality Certification is also required to comply with General Condition 21 (Water Quality) and General Condition 23 (Regional and Case-By-Case Conditions) of the Nationwide Permits.

The State of New Mexico water quality standards applicable to the project, which are available on the web at <http://www.nmcp.state.nm.us/nmac/parts/title20/20.006.0004.pdf> include, but are not limited to:

- 20.6.4.8 Antidegradation Policy and Implementation Plan
- 20.6.4.13 A, B, F, I General Criteria for Bottom Deposits and Suspended or Settleable Solids, and Floating Solids, Oil and Grease, Toxic Pollutants, Temperature, and Turbidity
- 20.6.4.13.J Turbidity attributable to other than natural causes shall not reduce light transmission to the point that the normal growth, function or reproduction of aquatic life is impaired or that will cause substantial visible contrast with the natural appearance of the water. Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or increase more than 20 percent when the background turbidity is more than 50

20.6.4.98
20.6.4.900

NTU. Background turbidity shall be measured at a point immediately upstream of the turbidity-causing activity. However, limited-duration activities necessary to accommodate dredging, construction or other similar activities and that cause the criterion to be exceeded may be authorized provided all practicable turbidity control techniques have been applied and all appropriate permits and approvals have been obtained.
All intermittent surface waters of the state...
Standards Applicable to Attainable or Designated Uses

According to the State of New Mexico water quality standards, the Santa Fe River (Santa Fe WWTP to Nichols Reservoir) is designated for the following uses: livestock watering, wildlife habitat, limited aquatic life and secondary contact. "Surface water(s) of the state" means all surface waters including streams, mudflats, sandflats, wetlands, sloughs, wet meadows, and natural ponds. The Santa Fe River (Santa Fe WWTP to Nichols Reservoir) does not meet State of New Mexico water quality standards for aquatic life, primary contact, or wildlife habitat (2008 - 2010 CWA §303(d)/§305(b) Integrated Report and List of Assessed Surface Waters).

Section 401 Water Quality Certification with Conditions:

Pursuant to Section 401 of the Clean Water Act and 40 Code of Federal Regulations Part 121, the SWQB hereby issues a conditional Section 401 Water Quality Certification for USACE Action SPA-2009-00765-ABQ (Santa Fe River Restoration) based on the application and/or information provided. This certification is subject to conditions to reasonably assure that the activity is consistent with state law, will be conducted in a manner that will not violate applicable State of New Mexico water quality standards, and implements the Water Quality Management Plan, including Total Maximum Daily Loads (TMDLs), the Continuing Planning Process, and Antidegradation Policy Implementation Plan. Therefore, this Certification is not valid unless the following conditions are adhered to:

1. Erosion control measures for all portions of the project area that drain to or would have runoff toward surface water must be properly selected, installed, inspected, repaired, and maintained. Erosion and sediment control structures (e.g., silt fences, sediment basins, etc.) must be inspected after significant storm events and repaired as necessary. Sediment must be removed from erosion control structures when the sediment reaches one-half the height of the structure or wet storage volume is reduced by one-half.
2. Fuel, oil, hydraulic fluid, lubricants, and other petrochemicals must not be stored within the 100-year floodplain and must have a secondary containment system to prevent spills. Appropriate spill clean-up materials such as booms and absorbent pads must be available on-site at all times during construction.
3. All heavy equipment used in the project area must be pressure washed and/or steam cleaned before the start of the project and inspected daily for leaks. A written log of inspections and maintenance must be completed. Leaking equipment must not be used in or near surface water. Refuel equipment at least 100 feet from surface water.
4. Do not work within the channel during spring runoff or summer monsoon seasons. Local weather forecasts must be monitored to avoid working in high water. Releases from dams must be incorporated into the work schedule to avoid working in high water. Work in the stream channel should be limited to periods of no flow when practicable, and must be limited to periods of low flow.
5. Temporary crossings must be restricted to a single location and perpendicular to and at a narrow point of the channel to minimize disturbance. Heavy equipment must be operated from the bank or work platforms and not enter surface water when practicable. Heavy equipment must not be parked within

ENVIRONMENTAL REQUIREMENTS

- 1) THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO PREVENT EROSION OF SOIL BY MINIMIZING THE AMOUNT OF SOILS THAT ARE EXPOSED AT ANY ONE TIME.
- 2) THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO MINIMIZE CONSTRUCTION NOISE AND EMISSIONS. SEE GENERAL CONSTRUCTION NOTE 15, SHEET 4, FOR NOISE ORDINANCE REQUIREMENTS. EXHAUST EMISSIONS OF CONSTRUCTION EQUIPMENT SHALL BE MINIMIZED BY REQUIRING APPLICABLE EMISSION CONTROL DEVICES AND LIMITING IDLING WHEN NOT IN USE.
- 3) SEE TRAFFIC CONTROL NOTE 4, SHEET 4, REGARDING REQUIRED PUBLIC SAFETY MEASURES DURING CONSTRUCTION.
- 4) PURSUANT TO THE FISH AND WILDLIFE COORDINATION ACT AND THE MIGRATORY BIRD TREATY ACT, IF MIGRATORY BIRDS, NESTS, OR EGGS MUST BE REMOVED OR DESTROYED, A PERMIT MUST BE OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE.
- 5) IF UNANTICIPATED SUBSURFACE CULTURAL DEPOSITS ARE IDENTIFIED ANYWHERE IN THE PROJECT AREA DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR WILL IMMEDIATELY CEASE WORK AT THAT LOCATION, AND THE STATE HISTORIC PRESERVATION OFFICE WILL BE NOTIFIED, AS WELL AS THE PROJECT MANAGER. WORK AT THAT LOCATION MAY NOT PROCEED UNTIL THE DEPOSITS HAVE BEEN INSPECTED BY A QUALIFIED ARCHAEOLOGIST AND APPROPRIATE TREATMENT/RESOLUTION HAS BEEN DETERMINED AND UNDERTAKEN.
- 6) ALL DISTURBED AREAS WILL BE RESEDED AND/OR PLANTED AS INDICATED ON THE REVEGETATION PLANS (SHEET 8).
- 7) THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA); HOWEVER, AT APPROXIMATELY 1/2 ACRE, THIS REPAIR PROJECT IS NOT SUBJECT TO THE SPECIFIC REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM. FOR ADDITIONAL INFORMATION, CONTACT THE NPDES COORDINATOR FOR THE CITY OF SANTA FE AT (505) 955-2132. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL OTHER PERMITS THAT MAY BE REQUIRED BY FEDERAL, STATE, AND CITY REGULATIONS FOR POLLUTION DISCHARGE COMPLIANCE. IMPROVEMENTS INVOLVED IN THIS PROJECT MAY QUALIFY AS BEST MANAGEMENT PRACTICES (BMPs) FOR SUCH COMPLIANCE.
- 8) TO MINIMIZE AIR QUALITY IMPACTS DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SECTION 107.14.5, AIR QUALITY REQUIREMENTS AND DUST ABATEMENT, FOR ALL DUST-PRODUCING ACTIVITIES, BURNING OPERATIONS, AND OTHER OPERATIONS THAT MAY PRODUCE PARTICULATE MATTER. THESE ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH STATE AND FEDERAL AIR QUALITY REGULATIONS, AS ADMINISTERED BY THE AIR POLLUTION CONTROL BUREAU OF THE NEW MEXICO ENVIRONMENT DEPARTMENT (NMED).
- 9) BEST MANAGEMENT PRACTICES SHALL BE INSTALLED AND MAINTAINED DURING AND AFTER CONSTRUCTION TO PREVENT, TO THE EXTENT PRACTICABLE, POLLUTANTS IN STORM WATER RUNOFF FROM ENTERING WATERS OF THE U.S.
- 10) PERMANENT STABILIZATION AND STORM WATER MANAGEMENT MEASURES SHALL BE IMPLEMENTED DURING OR POST CONSTRUCTION IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

WASTE DISPOSAL REQUIREMENTS

- 1) ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS, AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE DECIDED UPON AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF THE DETAILS OF DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED.
- 2) LANDFILL FEES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LANDFILL DUMPING FEES. NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.

HAZARDOUS SPILLS REQUIREMENTS

- 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, ETC., WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING DISCOVERIES OF PAST SPILLS AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT 827-9329. NON-EMERGENCIES MAY BE REPORTED TO 428-2500 AND TO THE PROJECT MANAGER.



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PROJECT

SANTA FE RIVER
CROSSVANE REPAIR
AT CALLE DON JOSE
STORM DRAIN OUTFALL

ADDRESS

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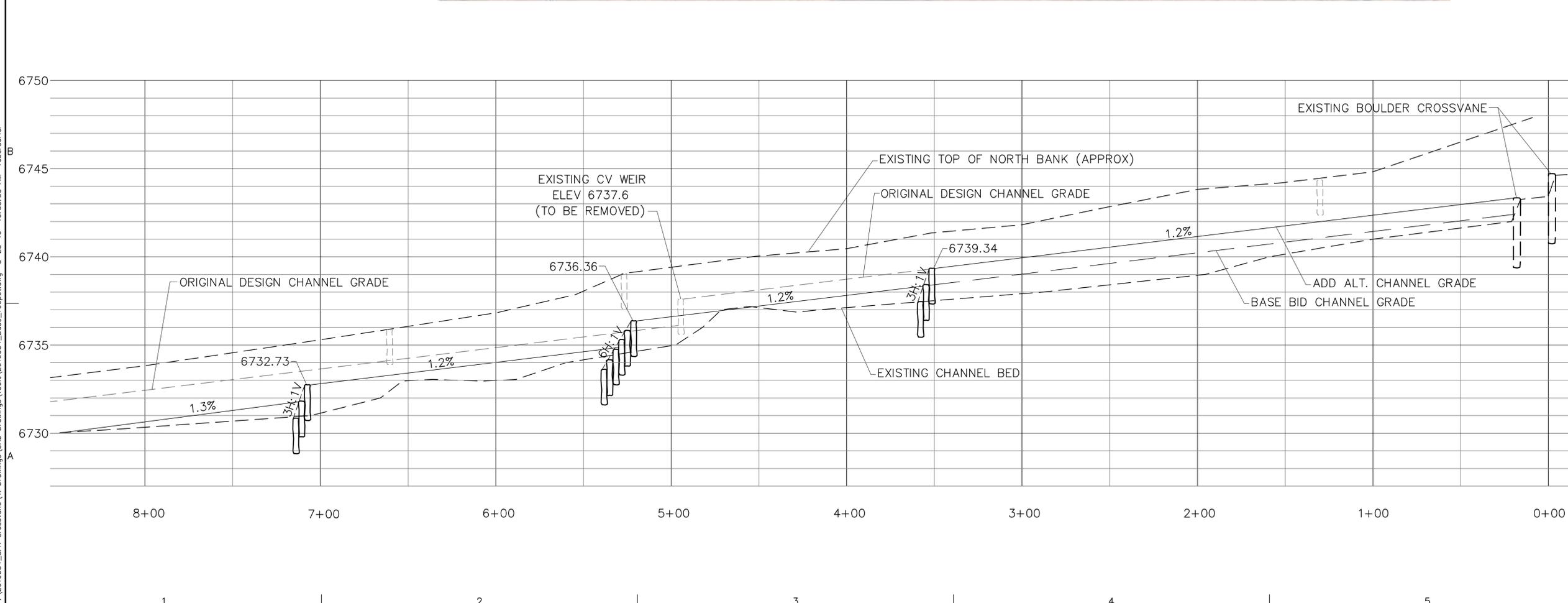
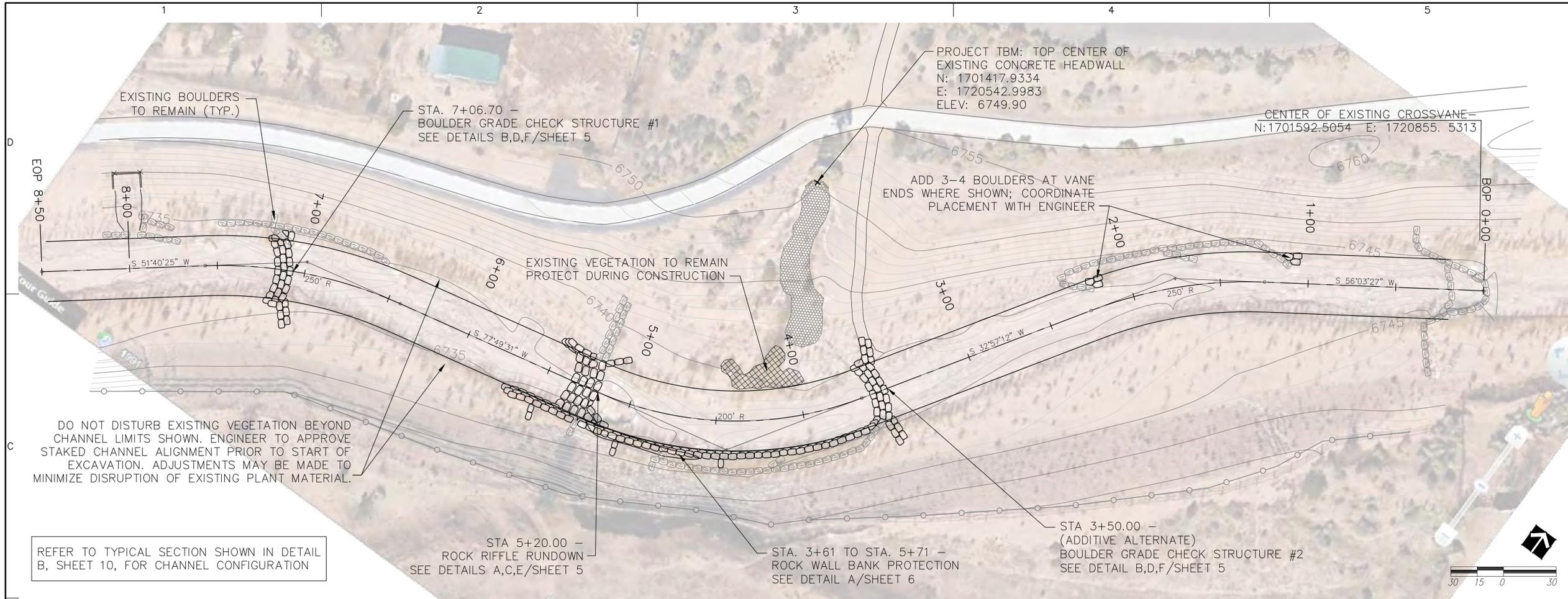
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ENVIRONMENTAL
PERMITS/REQUIREMENTS

SHEET 5 OF 12



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AT CALLE DON JOSE
STORM DRAIN OUTFALL

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PLAN AND PROFILE

SHEET 7 OF 12

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WILLOW WHIP PLANTINGS
(SEE DETAIL A, BELOW)

WILLOW WHIP BUNDLE PLANTINGS
(ADDITIVE ALTERNATE)

LEGEND

- WILLOW WHIP POLE PLANTINGS
- NMDOT CLASS "C" NATIVE REVEGETATION SEEDING *

* NATIVE SEED TO BE "SANTA FE TRAIL" GRASS BLEND, AS AVAILABLE FROM CURTIS AND CURTIS, CLOVIS, NM (PHONE: 800-753-4649; EMAIL: SEED@CURTISSEED.COM), OR APPROVED EQUIVALENT. SEED BLEND CONSISTS OF THE FOLLOWING:

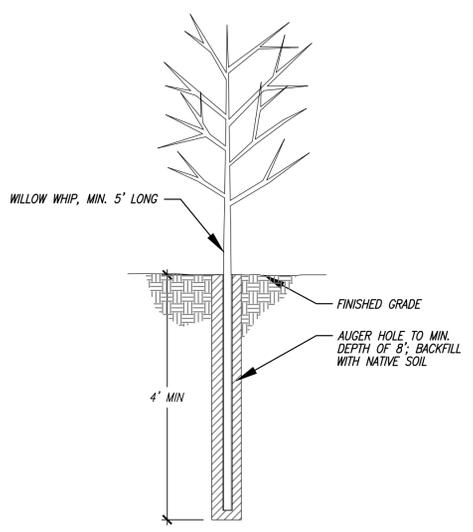
- BLUE GRAMA
- SIDEOTS GRAMA
- INDIAN RICEGRASS
- WESTERN WHEATGRASS
- BUFFALOGRASS
- ALKALI SACATON
- SHEEP FESCUE
- LITTLE BLUESTEM

SEEDING RATE TO BE 1 LB PLS/1000 SF

NOTE: ANY AREAS DISTURBED OUTSIDE OF THE LIMITS SHOWN SHALL BE RESEED AT THE CONTRACTOR'S EXPENSE FOLLOWING COMPLETION OF CONSTRUCTION.

NOTES:

1. WILLOW WHIPS USED FOR POLE PLANTING SHOULD BE HARVESTED WHILE DORMANT, BEFORE BUDS BREAK WINTER DORMANCY, AND PLANTED IN LATE WINTER/EARLY SPRING.
2. WILLOW WHIPS SHOULD BE HARVESTED LOCALLY, INsofar AS POSSIBLE, FROM APPROVED SOURCE.
3. SECONDARY BRANCHES SHOULD BE REMOVED FROM POLE PORTION TO BE PLACED BELOW GRADE.
4. AFTER HARVESTING, WILLOW WHIPS SHOULD BE KEPT MOIST BY PLACING ENDS IN WATER AT ALL TIMES EXCEPT DURING TRANSPORT.
5. AT LEAST 3/4 OF BRANCH SHOULD BE BURIED BELOW GRADE, WITH LARGER END FACING DOWNWARD.
6. "SUPER THRIVE" ROOT STIMULATOR (OR APPROVED EQUAL) SHOULD BE APPLIED TO BURIED END OF POLE PRIOR TO BACKFILLING.
7. ENSURE THAT AUGERED PLANTING HOLE EXTENDS INTO DAMP SUBSOIL.



A POLE PLANTING DETAIL

NOT TO SCALE

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PROJECT
**SANTA FE RIVER
CROSSVANE REPAIR**

AT CALLE DON JOSE
STORM DRAIN OUTFALL

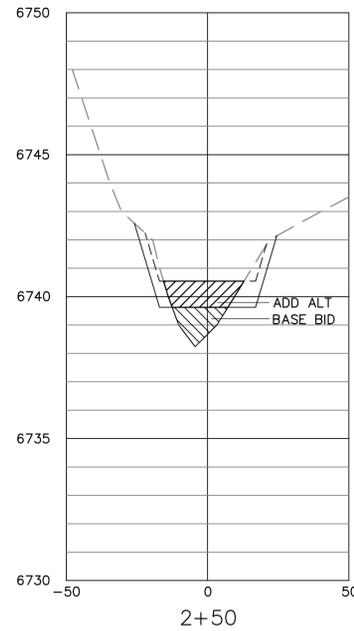
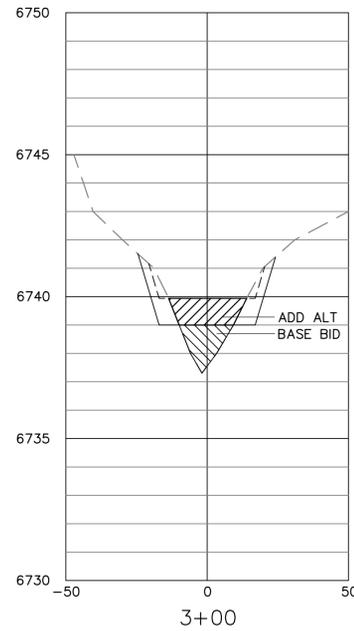
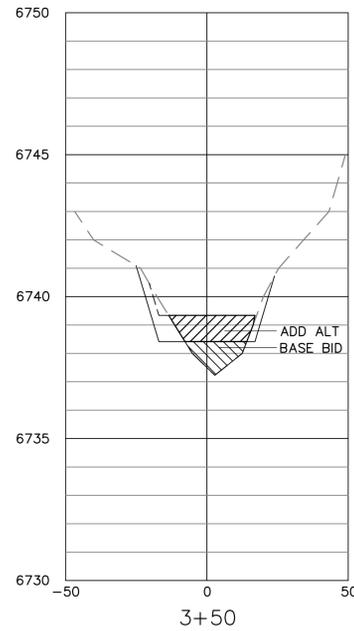
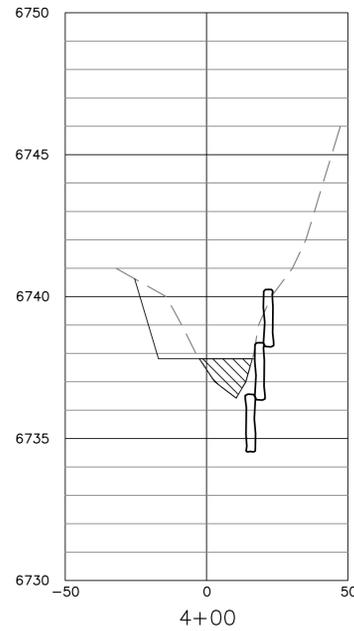
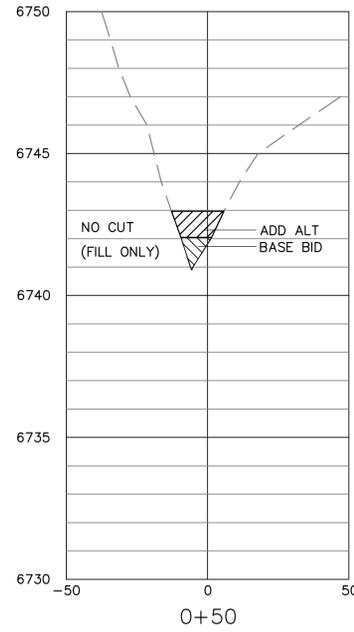
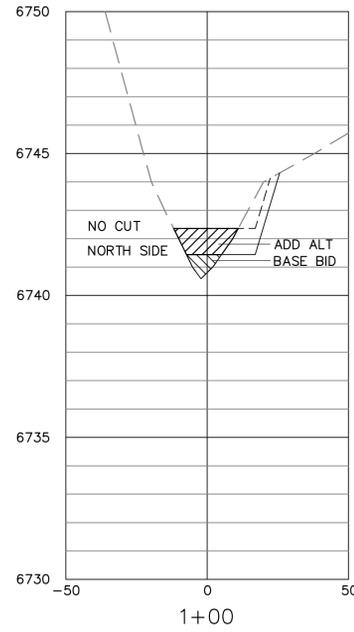
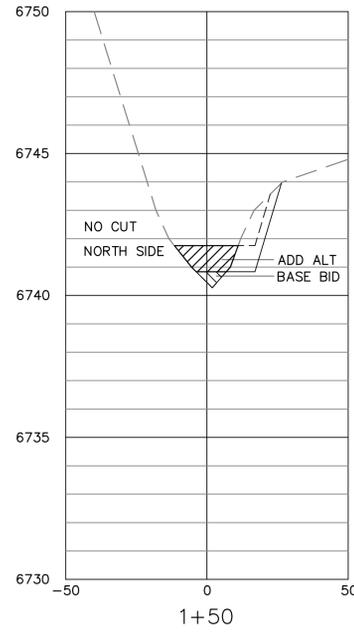
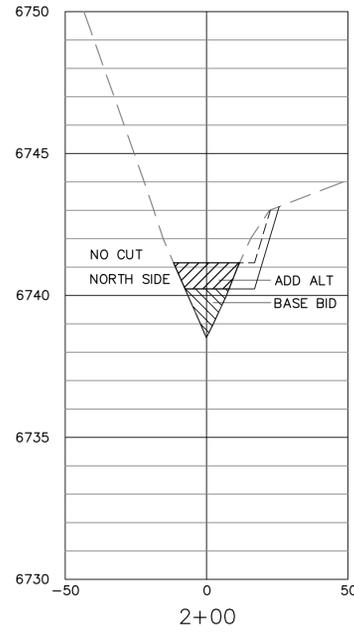
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REVEGETATION PLAN

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EARTHWORK SUMMARY

BASE BID

CUT: 7570.76 CY
 FILL: 4215.66 CY
 NET: 3355.10 CY (EXCESS CUT)

ADDITIVE ALTERNATE

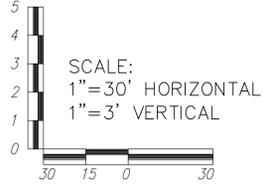
CUT: 588.94 CY
 FILL: 2244.04 CY
 NET: -1655.10 CY (EXCESS FILL)

COMBINED BASE + ALTERNATE

NET: 1700 CY (EXCESS CUT)

NOTE: EXCESS CUT MATERIAL WILL BE SPREAD AND COMPACTED ON SITE AT ENGINEER'S DIRECTION. NO OFFSITE HAUL AND DISPOSAL WILL BE REQUIRED.

NOTE:
 ALL CROSS SECTIONS ARE SHOWN
 LOOKING UPSTREAM.



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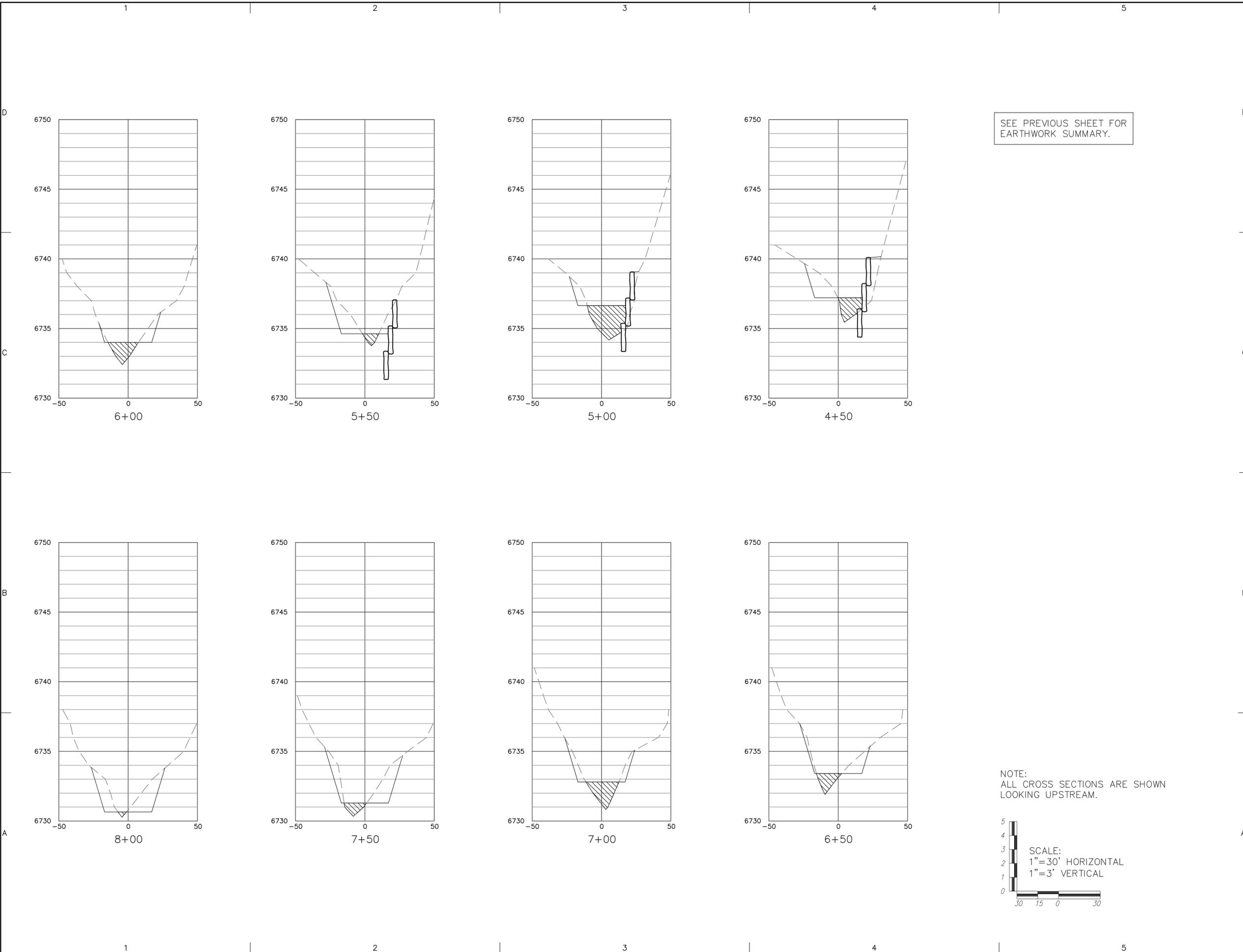
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SECTIONS 2

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