

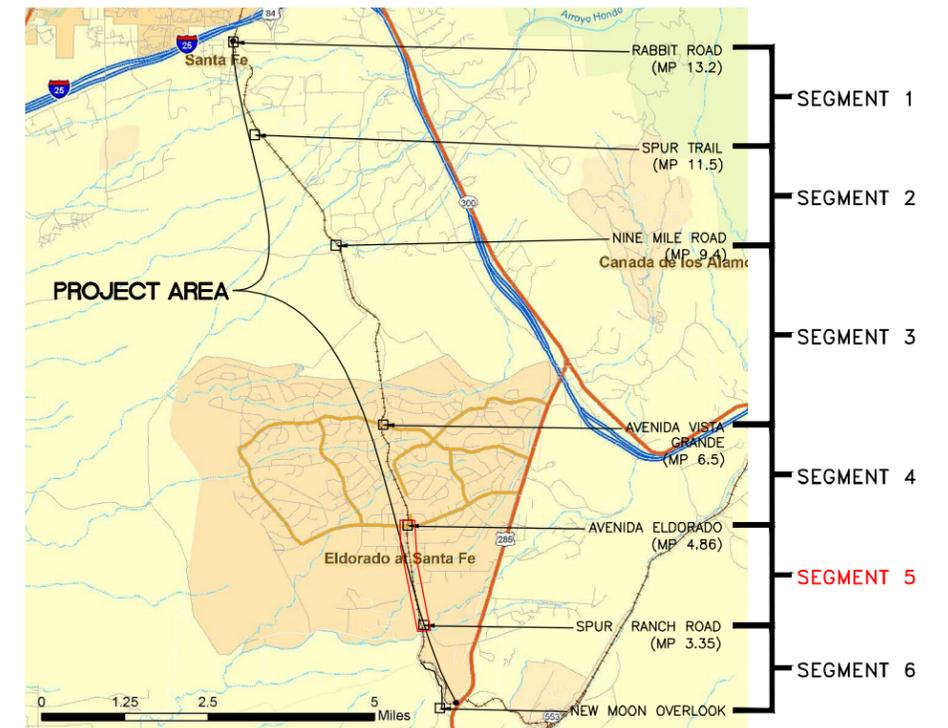
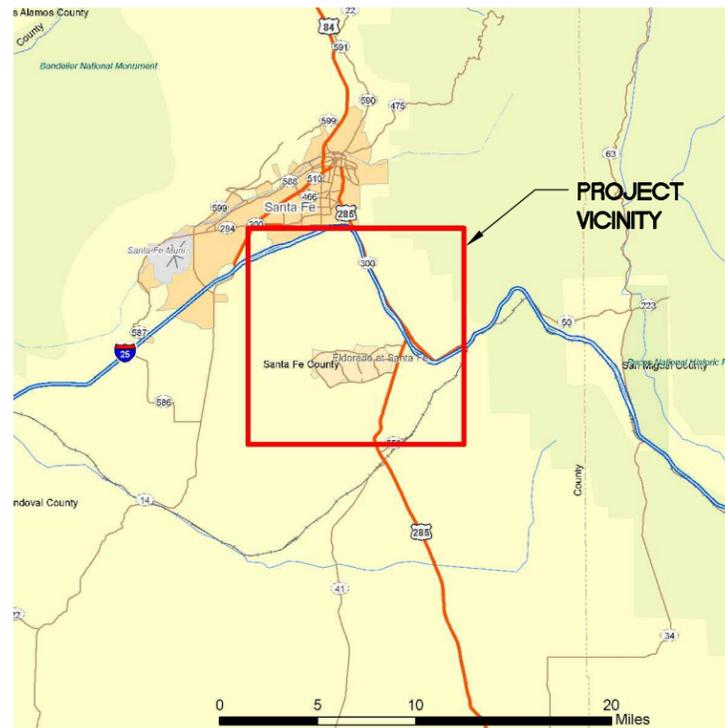
SANTA FE COUNTY, NEW MEXICO PUBLIC WORKS DEPARTMENT SANTA FE RAIL TRAIL SEGMENT 5



CN: S100550
LENGTH OF PROJECT

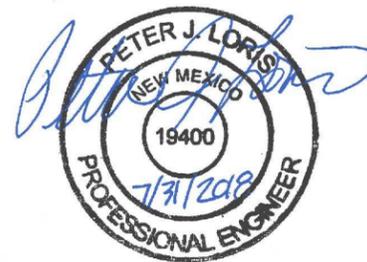
SEGMENT 5: STA 0+00 TO 80+57.50 = 8057.50 LF = 1.53 MILES
TOTAL = 8057.50 LF = 1.53 MILES

AVENIDA ELDORADO TO SPUR RANCH ROAD CN S100550



INDEX OF SHEETS

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29	XS-02	CROSS SECTIONS STA. 79+40 TO 80+60



PROJECT INTENT: CONSTRUCT SHARED-USE TRAIL SEGMENT 5, FROM AVENIDA ELDORADO TO SPUR RANCH ROAD.

G:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-01 Segment 5 Title Sheet.dwg Jul 31, 2018 - 12:10pm

COMPUTER FILE INFORMATION		SHEET REVISIONS		Loris and Associates, Inc. 100 Superior Plaza Way Suite 220 Superio, Colorado 80027 303.444.2073 www.LorisandAssociates.com	SANTA FE COUNTY SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35	SANTA FE RAIL TRAIL COVER SHEET		Project No./Code	
Creation Date: 1/18/2018	Initials: LX					ISSUED BY: LORIS AND ASSOCIATES, INC.	SANTA FE RAIL TRAIL	Project No. 325-10101	Revised:
Last Modification Date:	Initials:			Project No. 325-10101	Sheet Subst: TT-01	Sheet Subst: TT-01	Subset Sheets: 1		
Full Path:									
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AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH							



Know what's below. Call before you dig.

GENERAL NOTES

- 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. THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION" SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

MONUMENTATION INFORMATION

- 3. INFORMATION PERTAINING TO THE MONUMENTATION FOR THIS PROJECT MAY BE OBTAINED FROM THE SANTA FE COUNTY - GIS DIVISION AT (505) 995-2732.
- 4. 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 1990, 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 THEREFORE.

EARTHWORK

- 5. UNLESS OTHERWISE STATED WITHIN THIS PLAN SET, ALL SIDE SLOPES 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.
- 6. NO MATERIAL PITS HAVE BEEN IDENTIFIED FOR THIS PROJECT. IT IS ANTICIPATED THAT ALL FILL MATERIAL SHALL BE OBTAINED ON-SITE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR HAULING OF ON-SITE MATERIAL. SEE EARTHWORK CROSS SECTIONS.
- 7. ALL EXCAVATION TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29, CFR 1926.650, SUBPART P.
- 8. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35-TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION FOR EMBANKMENT AND SUB GRADE ADJACENT TO VERTICAL BANKS, WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER STRUCTURES.
- 9. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET, INTO STORM DRAIN SYSTEMS, OR DOWN ARROYOS.

UTILITIES

- 10. ** 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.
- 11. 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 INC. AT 1-800-321-2537 REGARDING LOCATION OF EXISTING UTILITIES. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE ITS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- 12. 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.
- 13. LANDFILL FEES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LANDFILL DUMPING FEES. NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.

TRAFFIC CONTROL (IF APPLICABLE)

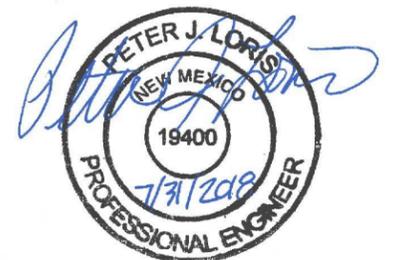
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FOR TRAFFIC CONTROL PROCEDURES FROM SANTA FE COUNTY PUBLIC WORKS, IF APPLICABLE. THE COST OF TRAFFIC CONTROL SHALL BE INCLUDED IN ITEM 704764 RETROREFLECTIVE PAVEMENT MARKING STRIPE 24"
- 15. THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY 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.
- 16. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A TRAFFIC CONTROL DIARY, WHICH SHALL BE AVAILABLE FOR REVIEW BY SANTA FE COUNTY.
- 17. 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.
- 18. ALL SIGNING HARDWARE: (PERMANENT SIGNING) INCLUDING BRACKETS (FOR MOUNTING ALL STREET NAMES SIGNS, ETC.) ARE CONSIDERED INCIDENTAL TO ITEM 701000 PANEL SIGNS.

GENERAL CONSTRUCTION

- 19. 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 TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.
- 20. 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.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY ARRANGEMENT FOR OBTAINING THE WATER NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT, REGARDLESS OF THE AVAILABILITY OF WATER.
- 22. 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 BID ITEM 201000, CLEARING AND GRUBBING.
- 23. ANY SALVAGEABLE MATERIALS REMOVED FROM THIS PROJECT SHALL BE HAULED AND STOCKPILED AT A LOCAL LOCATION DETERMINED BY PROJECT MANAGER. HAUL OF SUCH MATERIALS SHALL BE INCIDENTAL TO BID ITEM 201000, CLEARING AND GRUBBING.
- 24. THE CONTRACTOR WILL BE REQUIRED TO CONFINE THEIR 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.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO 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 THEIR OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ANY EXISTING DAMAGE PRIOR TO START OF CONSTRUCTION.
- 26. ALL REGULATORY SIGNS AND MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - "TRAFFIC CONTROL DEVICES FOR BICYCLE FACILITIES" - PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. COORDINATE LOCATION FOR NEW SIGNS AND/OR POSTS WITH THE PROJECT MANAGER.
- 27. UPON COMPLETION OF CONSTRUCTION ALL AREAS WITHIN PROJECT LIMITS WHICH ARE DISTURBED OR ARE TO BE REVEGETATED SHALL BE SEEDED IN ACCORDANCE WITH SECTION 632 - "SEEDING" - OF THE NMDOT STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.
- 28. ALL DIMENSIONS ON PLANS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 29. FIELD VERIFICATION: THE CONTRACTOR SHALL FIELD VERIFY THE GRADES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IF THERE IS A DISCREPANCY IN THE PROPOSED GRADE ELEVATIONS AND THE ACTUAL GRADE ELEVATIONS, 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" AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- 30. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR MUST MAKE ARRANGEMENT TO STORE EQUIPMENT AND MATERIALS OUTSIDE PUBLIC RIGHT-OF-WAY.
- 31. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL REMOVE ANY GRAFFITI WITHIN 24 HOURS FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

UTILITY CONTACTS		
UTILITY	ENTITY	TELEPHONE
WATER	SANTA FE COUNTY	(505) 992-9870
WASTEWATER	SANTA FE COUNTY	(505) 992-9870
SOLID WASTE	SANTA FE COUNTY	(505) 992-3010
ELECTRIC	PNM	(888) 342-5766
GAS	NEW MEXICO GAS COMPANY	(888) 664-2726
TELEPHONE	CENTURY LINK	(520) 971-7256
CABLE TV	COMCAST	(505) 474-7886
RAILROAD	SANTA FE SOUTHERN RAILWAY	(505) 670-7235



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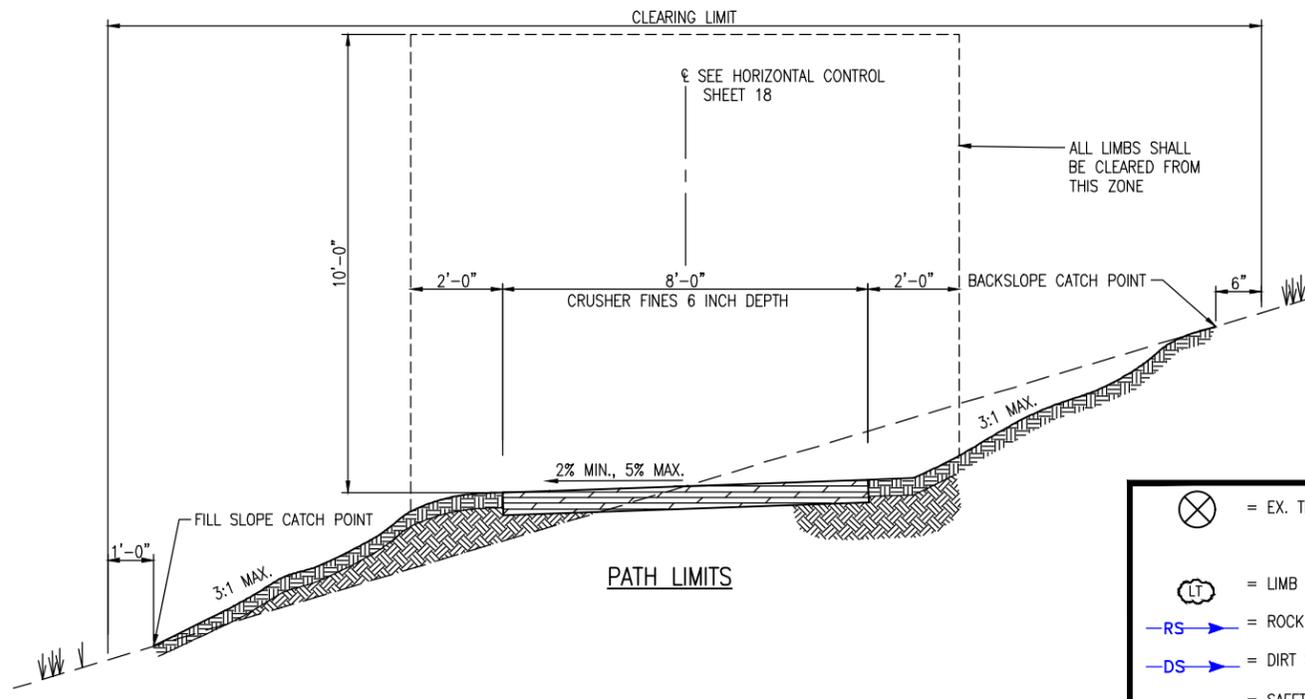
COMPUTER FILE INFORMATION		SHEET REVISIONS				SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35	SANTA FE RAIL TRAIL GENERAL NOTES		Project No./Code
Creation Date: 01/18/2018	Initials: LX						ISSUED BY: LORIS AND ASSOCIATES, INC.		SANTA FE RAIL TRAIL
Last Modification Date:	Initials:			100 Superior Plaza Way Suite 220 Superio, Colorado 80027 303.444.2073 www.LorisandAssociates.com			Project No. 325-10101	Revised:	
Full Path:							Sheet Subset: GN-01	Subset Sheets:	4
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AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH							

TRAIL CONSTRUCTION NOTES:

- CONSTRUCTION STAKING:** THE CONTRACTOR SHALL STAKE THE ALIGNMENT AT NO GREATER THAN 20' INCREMENTS PRIOR TO CONSTRUCTION. CONSTRUCTION STAKING SHALL BE BASED UPON THE HORIZONTAL CONTROL AND ALIGNMENT INFORMATION INCLUDED IN THE PLANS. AUTOCAD FILES OF THE TRAIL DESIGN AND ASSOCIATED FEATURES WILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST. ALL STAKING MATERIALS SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE PROJECT.
- TRAIL ALIGNMENT:** IT IS EXPECTED THAT THE CONTRACTOR MAKE MINOR ADJUSTMENTS TO THE ALIGNMENT DURING CONSTRUCTION TO IMPROVE DRAINAGE, AVOID IMPACTS TO VEGETATION THAT ARE NOT SPECIFICALLY IDENTIFIED FOR REMOVAL, MINIMIZE SITE IMPACTS, AND BALANCE EARTHWORK. ALIGNMENT SHIFTS OF GREATER THAN 2' SHALL BE APPROVED BY THE OWNER PRIOR TO COMPLETING CONSTRUCTION. MINOR MODIFICATIONS TO THE DESIGN DURING CONSTRUCTION ARE AN EXPECTED PART OF THE WORK AND NOT JUSTIFICATION FOR CHANGES TO THE CONTRACT.
- GRADING:** THE CONTRACTOR SHALL FOLLOW THE PLANS WHEN SPECIFIC GRADING AND/OR TRAIL PROFILE INFORMATION IS PROVIDED. IN AREAS WHERE GRADING AND/OR PROFILE INFORMATION IS NOT PROVIDED, THE CONTRACTOR SHALL CONSTRUCT THE TRAIL TO APPROXIMATELY THE EXISTING GRADES OF THE SITE. MINOR DEVIATIONS FROM EXISTING GRADES SHOULD BE MADE TO ASSURE POSITIVE DRAINAGE FROM THE TRAIL TREAD, TO CONSTRUCT DRAINAGE FEATURES IDENTIFIED IN THE PLANS OR OTHERWISE DETERMINED TO BE NEEDED AND TO BALANCE EARTHWORK. MINOR MODIFICATIONS TO THE DESIGN DURING CONSTRUCTION ARE AN EXPECTED PART OF THE WORK AND NOT JUSTIFICATION FOR CHANGES TO THE CONTRACT.
- LONGITUDINAL GRADES:** UNLESS OTHERWISE SHOWN IN THE PLANS, THE TRAIL SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING MAXIMUM LONGITUDINAL GRADES:

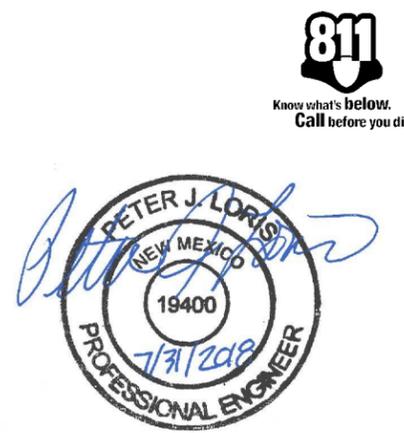
1:20 (5%)	ANY DISTANCE
1:12 (8.33%)	UP TO 200 FEET
1:10 (10%)	UP TO 30 FEET
1:8 (12.5%)	UP TO 10 FEET

LONGITUDINAL GRADES THAT EXCEED THESE VALUES SHALL BE APPROVED BY THE OWNER PRIOR TO COMPLETING CONSTRUCTION UNLESS OTHERWISE SPECIFICALLY IDENTIFIED IN THE PLANS.
- CROSS SLOPE:** THE TREAD CROSS SLOPE SHALL BE GREATER THAN 2% AND LESS THAN 5% UNLESS OTHERWISE SHOWN IN THE PLANS. A CROSS SLOPE OF 5% SHALL BE PROVIDED IN WHEN THE PREVAILING CROSS SLOPE OF THE EXISTING TERRAIN EXCEEDS 5%. A CROSS SLOPE OF UP TO 5% SHALL BE PROVIDED AT THE BOTTOM OF DRAINAGE CROSSINGS. THE CONTRACTOR SHALL VERIFY CROSS SLOPE WITH A DIGITAL SMART LEVEL OR OTHER APPROPRIATE MEASURING TOOLS DURING CONSTRUCTION TO PROPERLY CONSTRUCT TREAD CROSS SLOPE.
- VEGETATION:** THE CONTRACTOR SHALL PROTECT EXISTING VEGETATION NOT SPECIFICALLY IDENTIFIED FOR REMOVAL TO THE GREATEST EXTENT POSSIBLE. REMOVAL OF TREES, UNLESS SPECIFICALLY IDENTIFIED IN THE PLANS SHALL BE APPROVED BY THE OWNER PRIOR TO REMOVAL. CLEARING SHALL BE LIMITED TO THE ALL REMOVED VEGETATION, LIVE OR DEAD, SHALL REMAIN ON THE SITE AND BE PLACED IN RESTORATION AREAS, AS SHOWN IN THE PLANS OR OTHERWISE DIRECTED BY THE OWNER.
- USE AND DISPOSAL OF EXCAVATED MATERIAL:** EXCESS SITE MATERIALS (SOILS AND ORGANIC MATERIALS) SHALL BE CONSERVED AND USED ON THE SITE. EXCESS SOILS SHALL BE DEPOSITED IN RESTORATION AREAS AND COVERED WITH ORGANIC MATERIALS STRIPPED FROM NEW TRAIL TREAD AREAS. ROCKS UNEARTHED IN EXCAVATIONS SHALL BE USED TO STABILIZE DRAINAGE AREAS. USE SUITABLE SLOUGH AND BERM MATERIAL WITHIN THE TRAILWAY TO RESTORE THE TRAILBED AS SHOWN ON THE DRAWINGS. PLACE ALL UNSUITABLE AND EXCESS MATERIAL BEYOND THE DOWNSLOPE EDGE OF THE TRAILBED AND UNIFORMLY SPREAD TO A DEPTH NOT EXCEEDING 4" AND SO AS NOT TO OBSTRUCT DRAINAGE OR INTERFERE WITH THE DRAINAGE OF OUTSLOPED TREAD.
- DITCHES:** CONSTRUCT DITCHES TO BE FREE OF LOOSE ROCKS, ROOTS, STICKS, AND OTHER OBSTRUCTIONS UNLESS OTHERWISE SHOWN IN THE PLANS.
- SITE ACCESS:** THE CONTRACTOR SHALL USE THE EXISTING TRAIL / MAINTENANCE ROAD, OR THE PROPOSED TRAIL ALIGNMENT FOR THE TRANSPORT OF MATERIALS AND EQUIPMENT DURING CONSTRUCTION. THE CREATION OF ADDITIONAL PARALLEL ACCESS ROUTES WILL NOT BE ALLOWED. DISTURBANCE OF CURRENTLY UNDISTURBED AREAS, UNLESS PART OF THE NEW TRAIL ALIGNMENT, MUST BE AVOIDED. ANY AREA DISTURBED OUTSIDE OF THE FINISHED TRAIL TREAD MUST BE RESTORED TO PRECONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE PROJECT.
- CONSTRUCTION EQUIPMENT:** THE CONTRACTOR SHALL USE EQUIPMENT APPROPRIATELY SIZED FOR TRAIL CONSTRUCTION. THE EQUIPMENT MUST BE WITHIN THE EXPECTED AREA OF DISTURBANCE OF THE TRAIL WITHOUT ADDITIONAL CLEARING OR DISTURBANCE NEEDED SOLELY TO ACCOMMODATE THE OPERATION OF EQUIPMENT OR TRANSPORT OF MATERIALS.
- RAILROAD:** THE CONTRACTOR IS HEREBY ADVISED THAT PROJECT WORK WILL OCCUR WITHIN NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) RAILROAD RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR RAILROAD COORDINATION AND ADHERING TO ALL RAILROAD REQUIREMENTS. REFER TO THE RAILROAD NOTICE TO CONTRACTOR FOR REQUIREMENTS. THE CONTRACTOR WILL BE NOT ALLOWED WITHIN RAILROAD RIGHT-OF-WAY PRIOR TO EXECUTING AN AGREEMENT WITH AND RECEIVING WRITTEN APPROVAL FROM NMDOT.



	= EX. TREE TO BE REMOVED		= TREAD DIP
	= LIMB TREE		= FILLED CREST (TYPE 1)
	= ROCK SWALE		= ROLLING DIP (TYPE 2)
	= DIRT SWALE		= DENOTES RIPRAP CLASS H REQUIRED
	= SAFETY ZONE (25')		= CROSS SLOPE DIRECTION (LOOKING UP STA.)
	= CLEAR ZONE (15')		= EX. DRAINAGE DIRECTION
	= PROPERTY LINE		= DIRECTION OF MAJOR DRAINAGE
	= EX. RR TRACKS		= HIGH POINT
	= EX. FENCE		= LOW POINT
	= PROPOSED METAL RAILING		= PROPOSED TRAIL
	= PROPOSED WIRE FENCE		= SEEDING/RESTORATION AREA
	= PROPOSED BUCK & POLE FENCE		= SOIL RETENTION BLANKET AREA
	= EXISTING ACCESS ROAD		= AGGR. BASE COURSE
	= PONDING AREA		= RIPRAP (TYPE H)
	= GRADE TO DRAIN		= RIPRAP (TYPE I)
			= TRESTLE LOCATION

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AASHTO	ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	CL / E	CENTER LINE	LP	LIGHT POLE
ABAN	ABANDON	CLR	CLEAR	LT	LEFT / LIGHT
ABC	AGGREGATE BASE COURSE	CO	CLEAN OUT	MAINT	MAINTENANCE
ABUT	ABUTMENT	COM	COMMUNICATION	MAS	MASONRY
ALT	ALTERNATE	CONC	CONCRETE	FL	FLOW LINE
AMT	AMOUNT	CONST	CONSTRUCTION	FN	FENCE
APPROX	APPROXIMATE	CONT	CONTINUOUS(ATION)	FPS	FEET PER SECOND
ASPH	ASPHALT	COR	CORNER	FT	FEET
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	CP	CONTROL POINT	FTG	FOOTING / FITTING
AVG	AVERAGE	CY	CUBIC YARDS	G	GAS
AWWA	AMERICAN WATER WORKS ASSOCIATION	DEMO	DEMOLITION	GA	GALUZE
BF	BACK FACE	DET	DETAIL	GAL	GALLON
BFV	BUTTERFLY VALVE	DIA	DIAMETER	GALV	GALVANIZED
BLDG	BUILDING	DIP	DUCTILE IRON PIPE	GND	GROUND
BM	BENCH MARK	DWG	DRAWING	GPD	GALLONS PER DAY
BMP	BEST MANAGEMENT PRACTICE	EA	EACH	GPM	GALLONS PER MINUTE
BOC	BACK OF CURB	EF	EACH FACE	GRTG	GRATING
BOF	BOTTOM OF FOOTING	EJ	EXPANSION JOINT	GV	GATE VALVE
BOW	BACK OF WALK / BOTTOM OF WALL	EL/ELEV	ELEVATION	HCL	HORIZONTAL CONTROL LINE
BRG	BEARING	ELEC	ELECTRICAL	HMA	HOT MIX ASPHALT
BS	BACKSIGHT	ENGR	ENGINEER	HORIZ	HORIZONTAL
C&G	CURB AND GUTTER	EOP	EDGE OF PAVEMENT	HP	HIGH POINT
C/C	CENTER TO CENTER	EOTW	EDGE OF TRAVELED WAY	HVAC	HEATING, VENTILATION, AIR CONDITIONING
CB	CATCH BASIN	EQ	EQUAL	HWL	HIGH WATER LINE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	EQUIP	EQUIPMENT	HWY	HIGHWAY
CFS	CUBIC FEET PER SECOND	EQUIV	EQUIVALENT	ID	INSIDE DIAMETER
CJ	CONSTRUCTION JOINT / CONTROL JOINT	ESMT	EASEMENT	INV	INVERT
		EST	ESTIMATE	INV EL	INVERT ELEVATION
		EX	EXISTING	IRR	IRRIGATION
		FJ	FOUNDATION DRAIN	LF	LINEAR FOOT
				PRELIM	PRELIMINARY
				PREP	PREPARATION
				PROP	PROPOSED
				PRV	PRESSURE REDUCING VALVE / PRESSURE RELIEF VALVE
				PSF	POUNDS PER SQUARE FOOT
				PSI	POUNDS PER SQUARE INCH
				PT	POINT OF TANGENCY
				PVC	POLYVINYL CHLORIDE
				PVT	POINT OF VERTICAL CURVE / POLYVINYL TYPICAL
				PMT	MECHANICAL PAVEMENT
				QTY	QUANTITY
				R/RAD	RADIUS
				RCP	REINFORCED CONCRETE PIPE
				RE/REF	REFERENCE
				NA	NOT APPLICABLE
				REINF	REINFORCED (D) (ING) (MENT)
				REQD	REQUIRED
				ROW	RIGHT OF WAY
				RT	RIGHT
				OC	ON CENTER
				OD	OUTSIDE DIAMETER
				SD	STORM DRAIN
				SF	SQUARE FOOT
				SHT	SHEET
				SPA	SPACING/SPACES
				SPEC	SPECIFICATION
				STA	STATION
				STD	STANDARD
				STL	STEEL
				STM	STEAM
				N	NORTH
				S	SOUTH
				E	EAST
				W	WEST
				TAN	TANGENT
				TBC	TOP BACK OF CURB
				TEMP	TEMPORARY
				TOC	TOP OF CONCRETE / TOP OF CURB
				TOW	TOP OF WALL
				UBC	UNIFORM BUILDING CODE
				UE	UNDERGROUND ELECTRICAL
				UNO	UNLESS NOTED OTHERWISE
				VERT	VERTICAL
				W	WIDE / WIDTH / WATER
				w/	WITH
				w/o	WITH OUT
				WWF	WELDED WIRE FABRIC
				X	SECTION
				AT	
				(CIP)	COMPLETE (CAST) IN PLACE



G:\7.2 Clients\325 - Santa Fe County\10101-03 Segment 5 Trail Construction Notes.dwg Jul 31, 2018 12:10pm

Creation Date: 01/18/2017	Initials: LX	<input type="checkbox"/>
Last Modification Date:	Initials:	<input type="checkbox"/>
Full Path:		<input type="checkbox"/>
Drawing File Name:		<input type="checkbox"/>
AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH

NO.	DESCRIPTION	DATE	BY

Loris and Associates, Inc.
 100 Superior Plaza Way
 Suite 220
 Superior, Colorado 80027
 303.444.2073
 www.LorisandAssociates.com

SANTA FE RAIL TRAIL
 SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL
TRAIL CONSTRUCTION NOTES

ISSUED BY: LORIS AND ASSOCIATES, INC.
 Project No. 325-10101 Revised:
 Sheet Subset: GN-02 Subset Sheets: 4

Project No./Code
SANTA FE RAIL TRAIL
 CN S100550
 Sheet Number: **3**



ENVIRONMENTAL COMMITMENTS

THE CONTRACTOR SHALL REFER TO SECTION 107 OF THE 2014 EDITION OF THE STANDARD SPECIFICATIONS, MAKING SPECIALS NOTE OF SUB-SECTION 107.14 "CONTRACTOR'S RESPONSIBILITIES FOR ENVIRONMENTAL AND CULTURAL RESOURCE PROTECTION".

- NO ADDITIONAL PROJECT-SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY.
- IN ADDITION TO 107, THE FOLLOWING PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENT APPLY:

1. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESCP) IN COMPLIANCE WITH SECTION 402 OF THE CLEAN ACT. BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE INSTALLED AND MAINTAINED BOTH DURING AND AFTER CONSTRUCTION TO PREVENT, TO THE EXTENT PRACTICABLE, POLLUTANTS IN STORM WATER RUNOFF FROM ENTERING WATERS OF THE U.S. TEMPORARILY DISTURBED AREAS WILL BE RE-VEGETATED AFTER CONSTRUCTION TO LIMIT EROSION POTENTIAL.
2. TO PREVENT THE SPREAD OF NOXIOUS WEEDS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT WITH A HIGH PRESSURE WASHER PRIOR TO ENTERING AND LEAVING THE PROJECT AREA. MATERIALS TRANSPORTED INTO OR OUT OF THE PROJECT AREA SHALL BE CAREFULLY INSPECTED TO AVOID THE INTRODUCTION OF ADDITIONAL NOXIOUS WEED SPECIES. MATERIAL SOURCES CONTAINING NOXIOUS WEED SEEDS SHALL NOT BE UTILIZED BY THE CONTRACTOR.
3. HISTORIC PROPERTIES: IF PREVIOUSLY UNDOCUMENTED PREHISTORIC OR HISTORIC PROPERTIES ARE IDENTIFIED DURING CONSTRUCTION, ALL GROUND-DISTURBED ACTIVITIES WITHIN 100 FEET OF THE MATERIALS SHALL IMMEDIATELY CEASE AND MEASURES SHALL BE TAKEN TO PROTECT THE CULTURAL RESOURCES. THE PROJECT PROPONENT AND/OR THE CONTRACTOR SHALL IMMEDIATELY CONTACT STEVEN LAKATOS, NMDOT ENVIRONMENTAL BUREAU, AT (505) 827-5513 AND BY EMAIL AT STEVEN.LAKATOS@STATE.NM.US, AND ENSURE THAT ALL CONSTRUCTION IN THE AREA HAS CEASED.
4. IF ANY OF THE BLUEBIRD NEST HOUSES THAT HAVE BEEN INSTALLED WITHIN THE RAILROAD R.O.W. WILL BE NEGATIVELY IMPACTED BY THE CONSTRUCTION OF THE TRAIL IMPROVEMENTS, THEY SHALL BE RELOCATED. THE RELOCATION OF NEST HOUSES MUST OCCUR OUTSIDE OF THE BIRD NESTING SEASON, WHICH IS APRIL 15 THROUGH 15 JULY.

A Blake Rollow
 ENVIRONMENTAL PROGRAM MANAGER, NEW MEXICO DEPARTMENT OF TRANSPORTATION

3-9-18
DATE



C:\72 Client\373 - Santa Fe County-HA\10101 - Santa Fe Rail Trail\35 DMC-SEDA\DT 5\10101-(64) DRRM Notes.dwg Mar 08, 2018 - 3:37pm

COMPUTER FILE INFORMATION		SHEET REVISIONS			 Loris and Associates, Inc. 100 Superior Plaza Way Suite 220 Superior, Colorado 80027 303.444.2073 www.LorisandAssociates.com	 SANTA FE RAIL TRAIL SEGMENT 5 MP 4.85 to MP 3.35	SANTA FE RAIL TRAIL ENVIRONMENTAL NOTES		Project No./Code		
Creation Date: 01/18/2018	Initials: LX							SANTA FE RAIL TRAIL		CN S100550	
Last Modification Date:	Initials:							ISSUED BY: LORIS AND ASSOCIATES, INC.		Revised:	
Full Path:								Project No. 325-10101		Sheet Subst. GN-03	
Drawing File Name:								Subst. Sheets: 4		Sheet Number: 4	
AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH									



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CN S100500	
NMR100000 STATE OF NEW MEXICO, EXCEPT INDIAN COUNTRY NMR101000 INDIAN COUNTRY WITHIN THE STATE OF NEW MEXICO, EXCEPT NAVAJO RESERVATION LANDS THAT ARE COVERED UNDER ARIZONA PERMIT AZ100001 AND UTE MOUNTAIN RESERVATION LANDS THAT ARE COVERED UNDER COLORADO PERMIT COR100001.	
OPERATOR NAME: SANTA FE COUNTY	
POINT OF CONTACT: SANTA FE COUNTY PROJECT MANAGER	
NOI PREPARED BY: SANTA FE COUNTY PROJECT MANAGER	
PROJECT / SITE NAME: SANTA FE RAIL TRAIL - SEGMENT 5	
PROJECT / SITE ADDRESS: AVENIDA ELDORADO TO SPUR RANCH ROAD	
LATITUDE:	35° 31' 21"N
LONGITUDE:	-105° 55' 13" W
ESTIMATED PROJECT START DATE:	TO BE DETERMINED BY PROJECT MANAGER
ESTIMATED PROJECT COMPLETION DATE:	TO BE DETERMINED BY PROJECT MANAGER
ESTIMATED AREA TO BE DISTURBED (NEAREST 1/4 ACRE):	4.89 ACRES
TYPE OF CONSTRUCTION	TRAIL
DEMOLITION OF ANY STRUCTURES, 10,0000 SQUARE FEET OR GREATER BUILT OR RENOVATED BEFORE JANUARY 1, 1980? (YES/NO)	NO
WAS THE PREDEVELOPMENT LAND USE FOR AGRICULTURE? (YES/NO)	NO
COMMENCED EARTH-DISTURBING ACTIVITIES?:	NO
PREVIOUS NPDES PERMIT? IF YES, PERMIT NO:	NO
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): (NAME)	NO
SURFACE WATERS WITHIN 50 FT? (YES/NO)	NO
RECEIVING WATER:	GALISTEO CREEK
IMPAIRED WATERS:	YES
IMPAIRED WATERS METHOD: ONLINE CONSULTATION OF NEW MEXICO ENVIRONMENT DEPARTMENT LISTING OF STATEWIDE 303D AND TMDL IMPAIRMENTS.	
TIER 2, TIER 2.5, TIER 3 WATERS - (CONSULT 2017 CGP APPENDIX "F")	
CHEMICAL TREATMENT INFORMATION - TYPICAL NMDOT PROJECT WILL NOT UTILIZE THESE CHEMICALS.	
SWPPP CONTACT INFORMATION - SANTA FE COUNTY PROJECT MANAGER	
ENDANGERED SPECIES CRITERIA - (A, B, C, D, E, OR F): A	
HISTORIC PRESERVATION - HISTORIC PROPERTIES WILL NOT BE IMPACTED. THE ENVIRONMENTAL COMMITMENTS WILL INDICATE EXISTENCE OF HISTORIC PROPERTIES. IF HISTORIC PROPERTIES EXIST, THE TESC SHEETS CAN SHOW NO EFFECT ON HISTORIC PROPERTIES. ALL STORMWATER CONTROLS REQUIRE SUBSURFACE DISTURBANCE.	
CERTIFICATION: NOI MUST BE CERTIFIED BY "A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL".	

1. THE 2012 EDITION OF NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MANUAL AND SECTION 603 - TEMPORARY EROSION AND SEDIMENT CONTROL OF THE 2014 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION - SHALL BE USED AS MINIMUM REQUIREMENTS TO DEVELOP OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE NPDES PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOTICE OF INTENT (NOI), IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED, SHALL BE POSTED AT THE PROJECT SITE OR THE FIELD OFFICE AT ALL TIMES DURING CONSTRUCTION.
3. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ALL MAINTENANCE AND INSPECTION REPORTS SHALL BE SIGNED BY A QUALIFIED INSPECTOR ASSIGNED BY THE CONTRACTOR. THE SWPPP AND THE INSPECTION REPORTS SHALL BE AVAILABLE TO EPA REPRESENTATIVES AT ALL TIMES DURING CONSTRUCTION.
4. INFORMATION NEEDED TO COMPLETE THE NOTICE OF INTENT (NOI) IS PROVIDED IN THIS PLAN.
5. THE CONTRACTOR SHALL SPECIFICALLY DEFINE ALL REQUIRED CONTROL MEASURES FOR EACH CONSTRUCTION PHASE, AND SHALL COMPLY WITH THE PROVISIONS OF THE NPDES MANUAL AND THE 2017 CONSTRUCTION GENERAL PERMIT.
6. THE FINAL SEEDING AND REVEGETATION PLAN, ALONG WITH THE MEASURES SHOWN ON THE FINAL STABILIZATION TESC SHEETS (IF INCLUDED) SERVE AS THE FINAL SOIL STABILIZATION MANAGEMENT PRACTICE.



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COMPUTER FILE INFORMATION		SHEET REVISIONS				SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35	SANTA FE RAIL TRAIL SWPPP INFO SHEET		Project No./Code
Creation Date: 01/15/2018	Initials: LX						ISSUED BY: LORIS AND ASSOCIATES, INC.	SANTA FE RAIL TRAIL	
Last Modification Date:	Initials:			100 Superior Plaza Way Suite 220 Superior, Colorado 80027 303.444.2073 www.LorisandAssociates.com		Project No. 325-10101	Revised:	CN S100550	
Full Path:						Sheet Subset: GN-04	Subset Sheets: 4	Sheet Number: 5	
Drawing File Name:									
AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH							



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SUMMARY OF QUANTITIES		PROJECT TOTAL		
SPEC NUMBER	ITEM	UNIT	ESTIMATE	FINAL
107258	RAILROAD FLAGMEN / INSURANCE	LS	LS	
201000	CLEARING AND GRUBBING	LS	LS	
203200	SUBEXCAVATION	CU.YD.	100.00	
207900	DRAINAGE FEATURES	EA	21.00	
207901	TYPICAL SECTION E1	LIN. FT.	1,388.00	
207902	TYPICAL SECTION E2	LIN. FT.	930.00	
207911	TYPICAL SECTION R1	LIN. FT.	4,090.00	
207912	TYPICAL SECTION R2	LIN. FT.	360.00	
207914	TYPICAL SECTION R4	LIN. FT.	363.00	
207921	TYPICAL SECTION D1	LIN. FT.	120.00	
207922	TYPICAL SECTION D2	LIN. FT.	310.00	
207931	TYPICAL SECTION S1	LIN. FT.	325.00	
207934	TYPICAL SECTION S4	LIN. FT.	165.00	
303160	BASE COURSE 6 IN DEPTH	SQ.YD.	288.89	
303161	BASE COURSE 6 IN DEPTH (AS DIRECTED)	SQ.YD.	177.78	
303900	CRUSHER FINES 6 IN DEPTH	SQ.YD.	6,398.22	
507000	ROCK HEADWALL	EA	4.00	
570015	CULVERT PIPE (15 INCH)	LIN. FT.	48.00	
570036	CULVERT PIPE (36 Inch)	LIN. FT.	52.00	
570037	CULVERT PIPE END SECTION (36 Inch)	EA	2.00	
602070	RIPRAP CLASS H	SQ. YD.	237.00	
602071	RIPRAP CLASS H (AS DIRECTED)	SQ.YD.	44.45	
602080	RIPRAP CLASS I	CU.YD.	8.20	
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	LS	
607900	WIRE FENCE	LIN. FT.	340.00	
607901	BUCK AND POLE FENCE	LIN. FT.	60.00	
607902	VEHICULAR GATE	EA	1.00	
621000	CONSTRUCTION MOBILIZATION	LS	LS	
632000	CLASS A SEEDING	ACRE	4.20	
701000	PANEL SIGNS	SQ.FT.	97.06	
701101	MULTI-DIRECTIONAL SLIP BASE POSTS FOR ALUMINUM PANEL SIGNS	EA	5.00	
701950	TIMBER POSTS	LIN. FT.	184.00	
701951	MILE MARKER SIGNS	EA	1.00	
704764	TYPE 1 RETROREFLECTIVE PAVEMENT MARKING STRIPE 24"	LIN. FT.	58.00	
801000	CONSTRUCTION STAKING	LS	LS	



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COMPUTER FILE INFORMATION Creation Date: 01/18/2018 Initials: LX Last Modification Date: Initials: Full Path: Drawing File Name: AutoCAD Ver. 2009 Scale: AS NOTED Units: ENGLISH		SHEET REVISIONS		 Loris and Associates, Inc. 100 Superior Plaza Way Suite 220 Superior, Colorado 80027 303.444.2073 www.LorisandAssociates.com		 SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35		SANTA FE RAIL TRAIL SUMMARY OF APPROXIMATE QUANTITIES ISSUED BY: LORIS AND ASSOCIATES, INC. Project No. 325-10101 Revised: Sheet Subset: SQ-01 Subset Sheets: 4		Project No./Code SANTA FE RAIL TRAIL CN S100550 Sheet Number: 6	
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LENGTH OF PROJECT AND TYPICAL SECTION TABULATION

STA.	TO	STA.	LIN. FT.	MILES	REMARKS
0 + -18.00	TO	0 + 10.00	28	0.005	TYPICAL SECTION E1
0 + 10.00	TO	0 + 40.00	30	0.006	TYPICAL SECTION ROAD CROSSING
0 + 40.00	TO	2 + 60.00	220	0.042	TYPICAL SECTION R2
2 + 60.00	TO	4 + 75.00	215	0.041	TYPICAL SECTION E2
4 + 75.00	TO	5 + 30.00	55	0.010	TYPICAL SECTION S4
5 + 30.00	TO	7 + 15.00	185	0.035	TYPICAL SECTION E2
7 + 15.00	TO	7 + 40.00	25	0.005	TYPICAL SECTION S1
7 + 40.00	TO	9 + 80.00	240	0.045	TYPICAL SECTION E2
9 + 80.00	TO	13 + 80.00	400	0.076	TYPICAL SECTION E1
13 + 80.00	TO	15 + 10.00	130	0.025	TYPICAL SECTION S1
15 + 10.00	TO	20 + 60.00	550	0.104	TYPICAL SECTION E1
20 + 60.00	TO	24 + 0.00	340	0.064	TYPICAL SECTION R1
24 + 0.00	TO	25 + 40.00	140	0.027	TYPICAL SECTION S1
25 + 40.00	TO	26 + 30.00	90	0.017	TYPICAL SECTION R1
26 + 30.00	TO	30 + 40.00	410	0.078	TYPICAL SECTION E1
30 + 40.00	TO	32 + 50.00	210	0.040	TYPICAL SECTION E2
32 + 50.00	TO	32 + 80.00	30	0.006	TYPICAL SECTION S1
32 + 80.00	TO	43 + 80.00	1100	0.208	TYPICAL SECTION R1
43 + 80.00	TO	45 + 0.00	120	0.023	TYPICAL SECTION D1
45 + 0.00	TO	48 + 10.00	310	0.059	TYPICAL SECTION D2
48 + 10.00	TO	48 + 90.00	80	0.015	TYPICAL SECTION E2
48 + 90.00	TO	50 + 0.00	110	0.021	TYPICAL SECTION S4
50 + 0.00	TO	51 + 40.00	140	0.027	TYPICAL SECTION R2
51 + 40.00	TO	77 + 0.00	2560	0.485	TYPICAL SECTION R1
77 + 0.00	TO	80 + 63.00	363	0.069	TYPICAL SECTION R4
TOTAL			8,081.00	1.530	

- SECTION SUMMARY

STA.	TO STA.	LIN. FT.	REMARKS
207921 - TYPICAL SECTION D1			
43 + 80	TO 45 + 0	120	TYPICAL SECTION D1
TOTAL		120	TYPICAL SECTION D1
207922 - TYPICAL SECTION D2			
45 + 0	TO 48 + 10	310	TYPICAL SECTION D2
TOTAL		310	TYPICAL SECTION D2
207901 - TYPICAL SECTION E1			
0 + -18	TO 0 + 10	28	TYPICAL SECTION E1
9 + 80	TO 13 + 80	400	TYPICAL SECTION E1
15 + 10	TO 20 + 60	550	TYPICAL SECTION E1
26 + 30	TO 30 + 40	410	TYPICAL SECTION E1
TOTAL		1,388	TYPICAL SECTION E1
207902 - TYPICAL SECTION E2			
2 + 60	TO 4 + 75	215	TYPICAL SECTION E2
5 + 30	TO 7 + 15	185	TYPICAL SECTION E2
7 + 40	TO 9 + 80	240	TYPICAL SECTION E2
30 + 40	TO 32 + 50	210	TYPICAL SECTION E2
48 + 10	TO 48 + 90	80	TYPICAL SECTION E2
TOTAL		930	TYPICAL SECTION E2
207911 - TYPICAL SECTION R1			
20 + 60	TO 24 + 0	340	TYPICAL SECTION R1
25 + 40	TO 26 + 30	90	TYPICAL SECTION R1
32 + 80	TO 43 + 80	1100	TYPICAL SECTION R1
51 + 40	TO 77 + 0	2560	TYPICAL SECTION R1
TOTAL		4,090	TYPICAL SECTION R1
207912 - TYPICAL SECTION R2			
0 + 40	TO 2 + 60	220	TYPICAL SECTION R2
50 + 0	TO 51 + 40	140	TYPICAL SECTION R2
TOTAL		360	TYPICAL SECTION R2
207914 - TYPICAL SECTION R4			
77 + 0	TO 80 + 63	363	TYPICAL SECTION R4
TOTAL		363	TYPICAL SECTION R4
2074931 - TYPICAL SECTION S1			
7 + 15	TO 7 + 40	25	TYPICAL SECTION S1
13 + 80	TO 15 + 10	130	TYPICAL SECTION S1
24 + 0	TO 25 + 40	140	TYPICAL SECTION S1
32 + 50	TO 32 + 80	30	TYPICAL SECTION S1
TOTAL		325	TYPICAL SECTION S1
207934 - TYPICAL SECTION S4			
4 75	TO 5 + 30	55	TYPICAL SECTION S4
48 + 90	TO 50 + 0	110	TYPICAL SECTION S4
TOTAL		165	TYPICAL SECTION S4



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COMPUTER FILE INFORMATION Creation Date: 01/18/2018 Initials: LX Last Modification Date: Initials: Full Path: Drawing File Name: AutoCAD Ver. 2009 Scale: AS NOTED Units: ENGLISH		SHEET REVISIONS		 Loris and Associates, Inc. 100 Superior Plaza Way Suite 220 Superior, Colorado 80027 303.444.2073 www.LorisandAssociates.com		SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35		SANTA FE RAIL TRAIL MISCELLANEOUS QUANTITIES ISSUED BY: LORIS AND ASSOCIATES, INC. Project No. 325-10101 Revised: Sheet Subset: SQ-02 Subset Sheets: 4		Project No./Code SANTA FE RAIL TRAIL CN S100550 Sheet Number: 7	
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207900 - DRAINAGE FEATURES			
STA.	EA	REMARK	
2+	55.00	1	C
4+	0.00	1	C
7+	20.00	1	RD
9+	25.00	1	RD
11+	0.00	1	C
17+	0.00	1	RD
19+	30.00	1	C
28+	20.00	1	RD
30+	20.00	1	RD
32+	80.00	1	RD
43+	30.00	1	D
45+	0.00	1	C
46+	80.00	1	C
48+	0.00	1	C
57+	60.00	1	C
64+	20.00	1	D
66+	30.00	1	D
66+	70.00	1	D
68+	60.00	1	RD
72+	0.00	1	RD
75+	0.00	1	C
TOTAL		21	
PROJECT TOTAL			

303160 - ROAD BASE 6 IN DEPTH							
STA.	TO	STA.	LIN. FT.	WIDTH (FT)	SQ. YD.	REMARKS	
7+	15	7+	40	25	8	22	TYPICAL SECTION S1
13+	80	15+	10	130	8	116	TYPICAL SECTION S1
24+	0	25+	40	140	8	124	TYPICAL SECTION S1
32+	50	32+	80	30	8	27	TYPICAL SECTION S1
TOTAL			325		289		

303900 - CRUSHER FINES 6 IN DEPTH							
STA.	TO	STA.	LIN. FT.	WIDTH (FT)	SQ. YD.	REMARKS	
0+	0	0+	15	15	8	13	
0+	40	40	75	435	8	387	
5+	30	7+	15	185	8	164	
7+	40	13+	80	640	8	569	
15+	10	24+	0	890	8	791	
25+	40	32+	50	710	8	631	
32+	80	48+	90	1610	8	1431	
50+	0	77+	0	2700	8	2400	
TOTAL			7185		6387		

607900 - WIRE FENCE				
STA.	TO	STA.	LIN. FT.	REMARKS
50+	0.00	TO 50+	20.00	20
77+	30.00	TO 80+	50.00	320
TOTAL			340	

607901 - BUCK AND POLE FENCE				
STA.	TO	STA.	LIN. FT.	REMARKS
1+	40		20	
21+	60		20	
24+	60		20	
TOTAL			60	

607902 - VEHICULAR GATE				
STA.	TO	STA.	EA	REMARKS
50+	0.00		1	
TOTAL			1	

DRAINAGE STRUCTURES						
		ROCK HEADWALL	CULVERT PIPE (15 INCH)	CULVERT PIPE (36 INCH)	CULVERT PIPE END SECTION (36 INCH)	REMARKS
		507000	570015	570036	570037	
STA.	EA	LIN. FT.	LIN. FT.	EA		
80+	40.00			52.00	2	
2+	60.00	2	24.00			
45+	0.00	2	24.00			
TOTAL		4	48.00	52.00	2	



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AS DIRECTED ITEMS				
SPEC NO	ITEM	UNIT	QUANTITY	REMARKS
203200	SUBEXCAVATION	CU. YD.	100	LOCATE AS DIRECTED
303161	BASE COURSE 6 IN DEPTH (AS DIRECTED)	SQ. YD.	178	LOCATE AS DIRECTED
602071	RIPRAP CLASS H (AS DIRECTED)	SQ. YD.	44	LOCATE AS DIRECTED
LUMP SUM ITEMS				
SPEC NO	ITEM	UNIT	QUANTITY	REMARKS
107258	RAILROAD FLAGMEN / INSURANCE	LS	1	
201000	CLEARING AND GRUBBING	LS	1	
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	1	
621000	CONSTRUCTION MOBILIZATION	LS	1	
801000	CONSTRUCTION STAKING	LS	1	

602070 - RIPRAP CLASS H						
STA.	TO	STA.	LF	WIDTH (FT)	SQ. YD.	REMARKS
2 +	70.00	TO 4 +	95.00	225	2	50.00
7 +	40.00	TO 9 +	15.00	175	4	78.00
44 +	0.00	TO 44 +	80.00	80	4	36.00
45 +	10.00	TO 46 +	0.00	90	4	40.00
48 +	45.00	TO 49 +	0.00	55	4	25.00
DRAINAGE FEATURES					8.00	ASSUME 5 DRAINAGE FEATURES, 14 SF EACH
TOTAL			625		237.00	

602080 - RIPRAP CLASS I					
STA.	SIDE	AREA (SF)	THICK (FT)	CU. YD.	REMARKS
2 +	60.00	57	1	2.10	CULVERT
45 +	0.00	57	1	2.10	CULVERT
81 +	20.00	108	1	4.00	CULVERT
TOTAL		221		8.20	

603 - SOIL RETENTION BLANKET						
STA.	TO	STA.	LF	WIDTH (FT)	SQ. YD.	REMARKS
0 +	0.00	TO 0 +	0.00		0	
TOTAL					0	

632000 - CLASS A SEEDING				
STA.	AREA (SF)	AREA (ACRE)	REMARKS	
1 +	0.00	1,698	0.039	RESTORATION AREA
22 +	0.00	2,719	0.062	RESTORATION AREA
25 +	0.00	1,390	0.032	RESTORATION AREA
ADJACENT TO TRAIL	129,008	2.96		AREA IMPACTED BY TRAIL CONSTRUCTION (8' EACH SIDE OF TRAIL X PROJECT LENGTH)
ADD 10%	13,482	0.31		
	148,297	3.40		



gs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(04-05) Segment 5_SAO.dwg Jul 31, 2018 - 12:11pm

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SHEET REVISIONS	

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 100 Superior Plaza Way
 Suite 220
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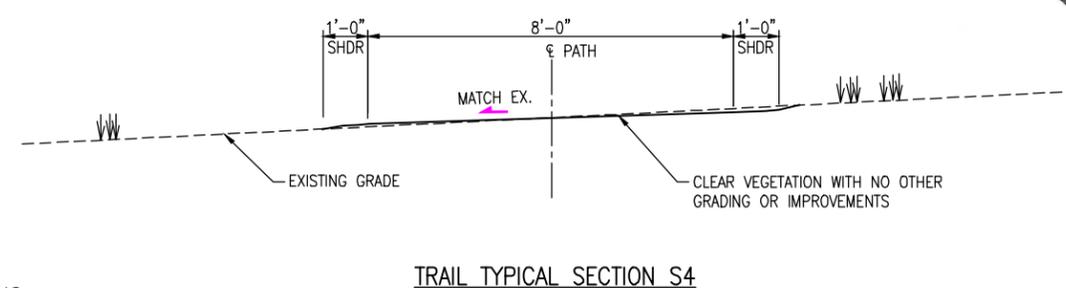
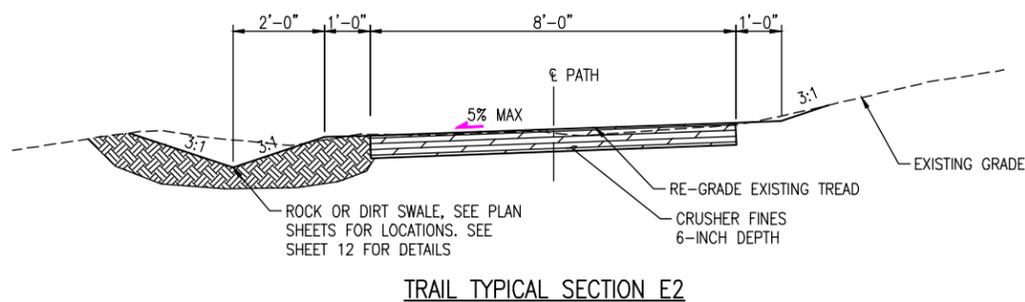
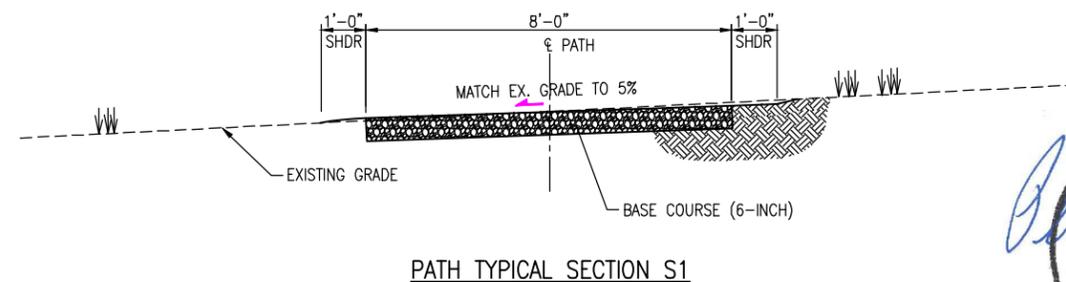
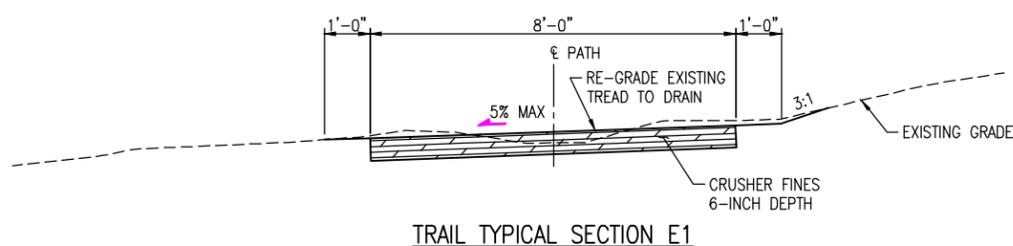
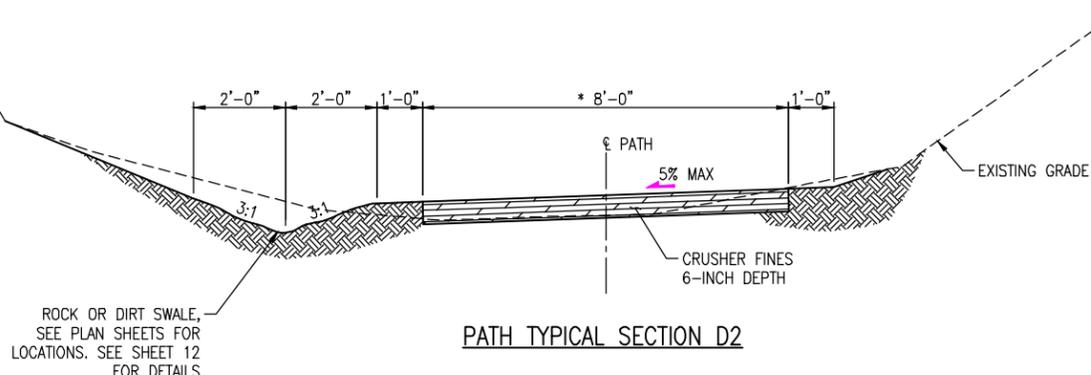
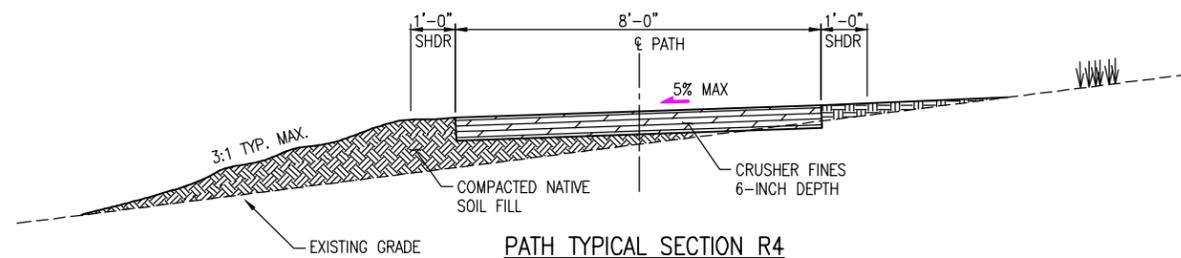
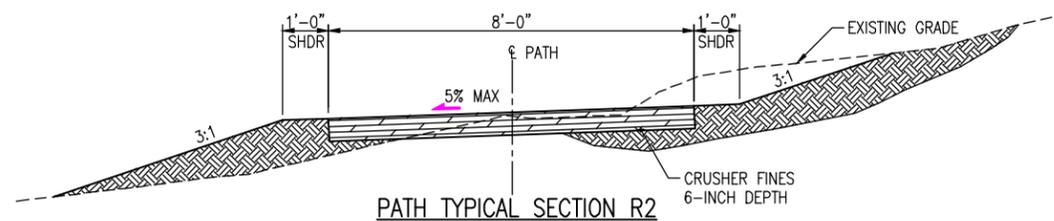
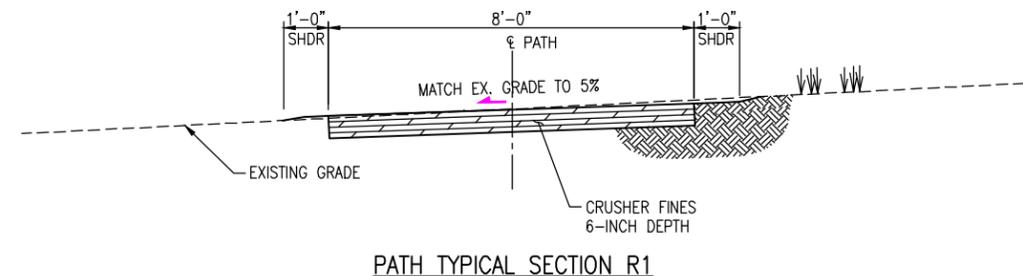
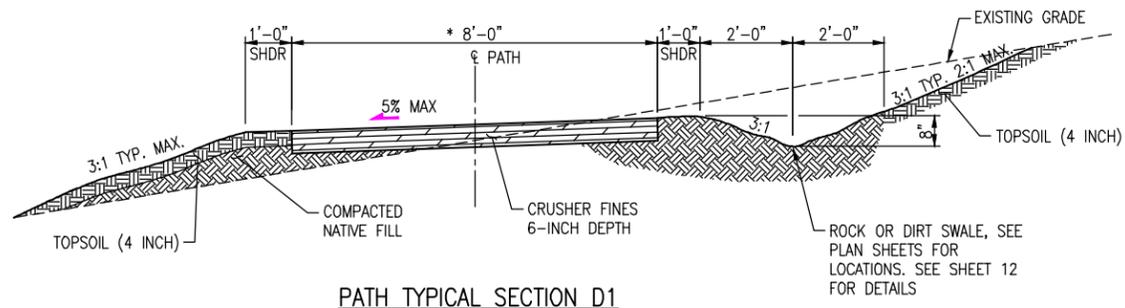
SANTA FE RAIL TRAIL
 SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL MISCELLANEOUS QUANTITIES	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Project No. 325-10101
Project No. 325-10101	Revised:
Sheet Subset: SQ-04	Subset Sheets: 4

Project No./Code	SANTA FE RAIL TRAIL
	CN S100550
Sheet Number:	9



Know what's below. Call before you dig.



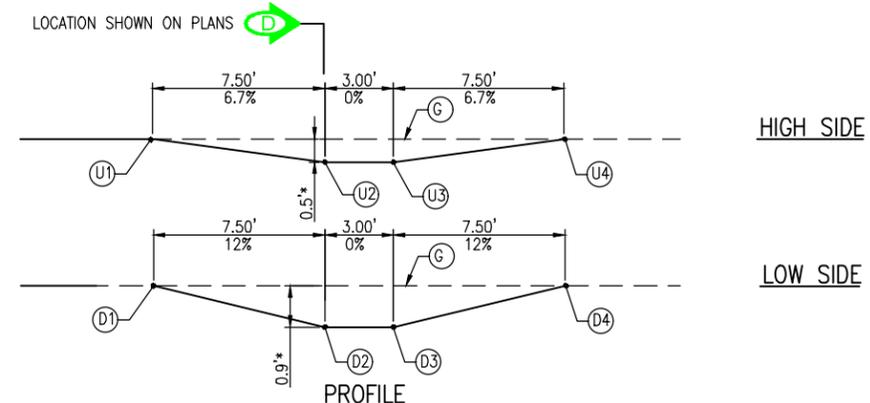
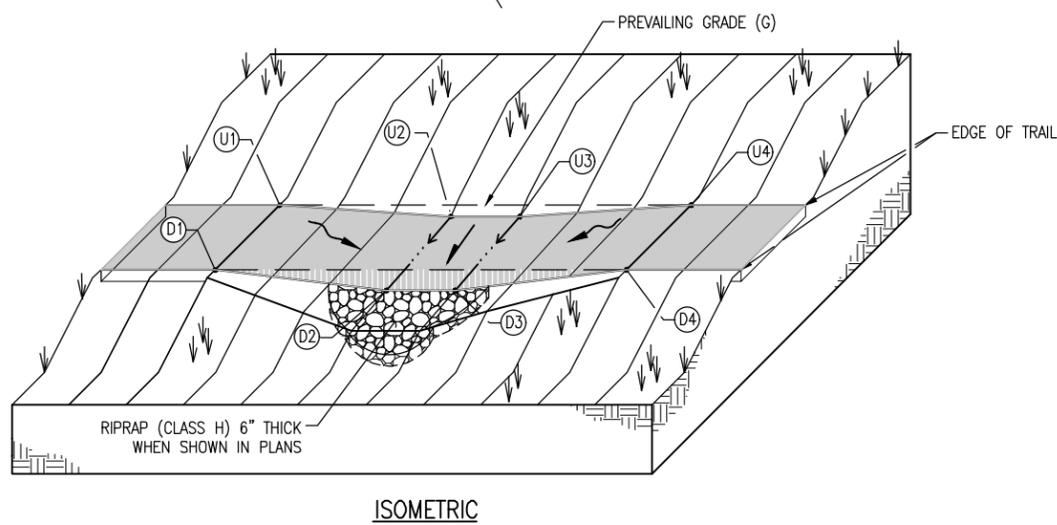
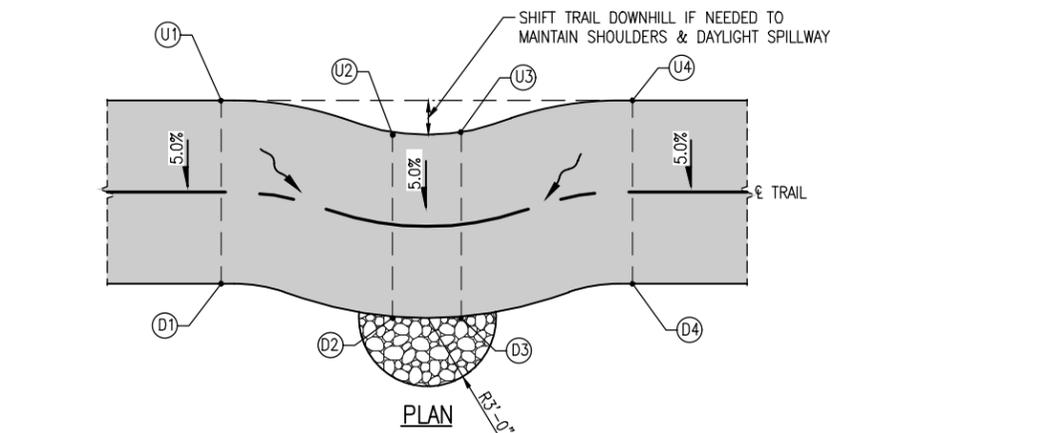
NOTE: SEE SHEET 6 FOR STATIONING

gs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-04-05 Segment 5 Typical Path Sections (2 Sheets).dwg Jul 31, 2018 - 12:11pm

COMPUTER FILE INFORMATION		SHEET REVISIONS			 SANTA FE RAIL TRAIL SEGMENT 5 MP 4.86 to MP 3.35	SANTA FE RAIL TRAIL TYPICAL SECTIONS		Project No./Code	
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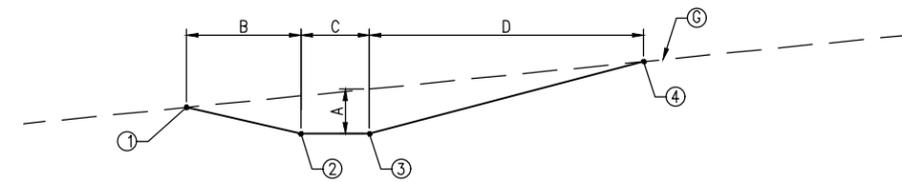
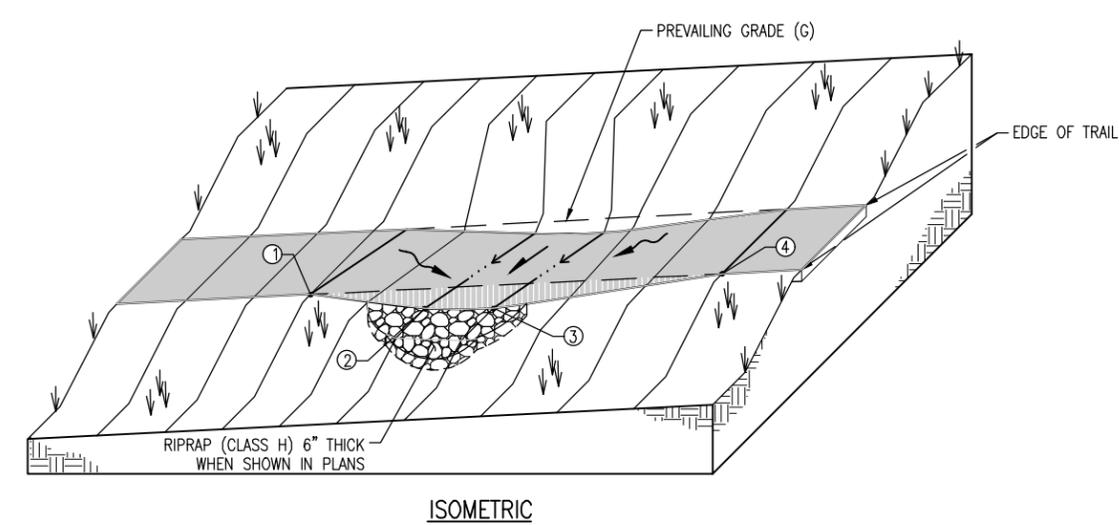
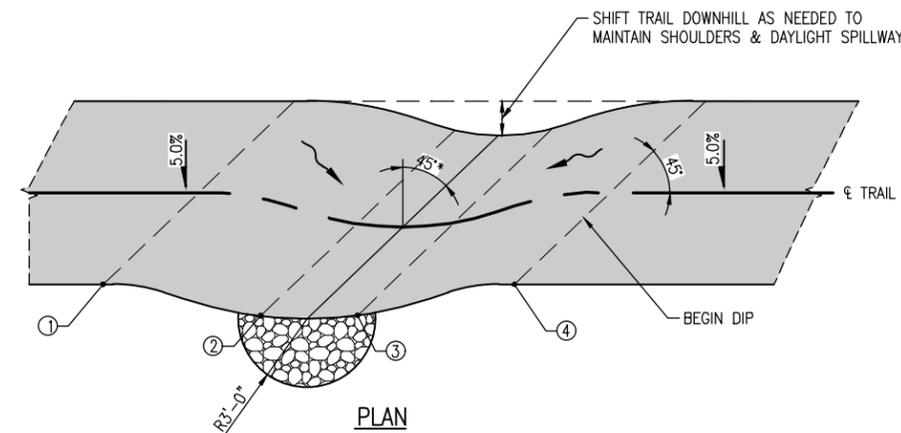


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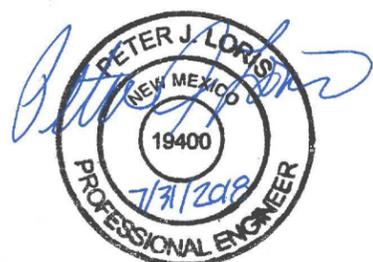
* REDUCE IF NEEDED TO MAINTAIN POSITIVE DRAINAGE AWAY FROM TRAIL

* HORIZONTAL ANGLE TO TRAIL CENTERLINE



G	A		B		C		D	
	FT	%	FT	%	FT	%	FT	%
0%-5%	0.9	-	4.5	-	1.5	-	12.0	-
5%-8%	0.9	-	4.0	-	1.5	-	15.0	-
8%-10%	-	-	-	-	-	-	-	-

TREAD DIP



cs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-06-10 Segment 5 Details (5 Sheets).dwg Jul 31, 2018 - 12:11pm

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SHEET REVISIONS



SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL DETAILS DRAINAGE FEATURES	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Project No. 325-10101
Revised:	Sheet Subset: DT-01
Subset Sheets:	5

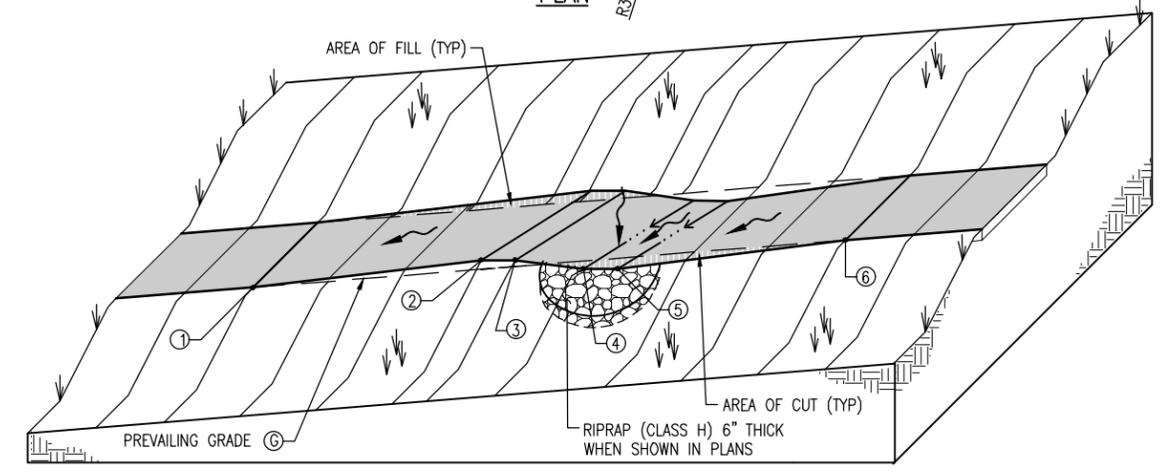
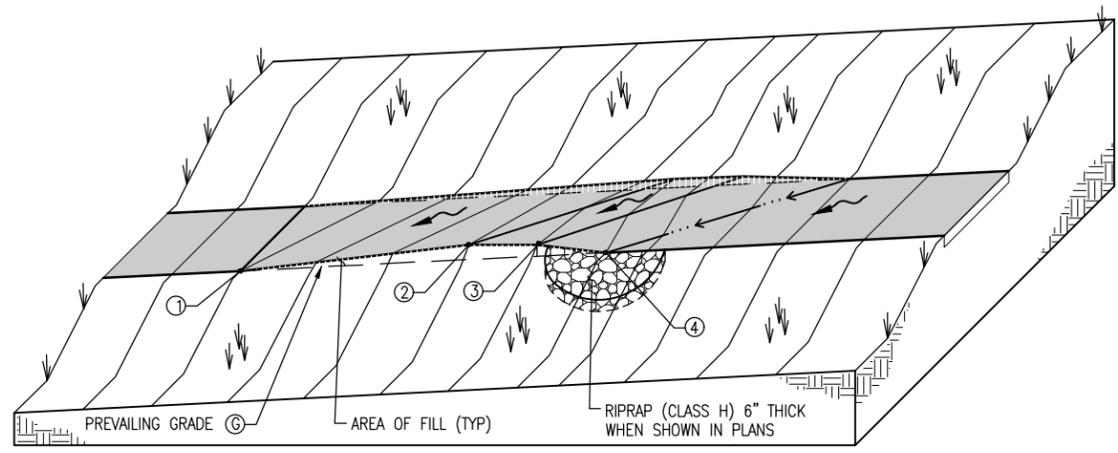
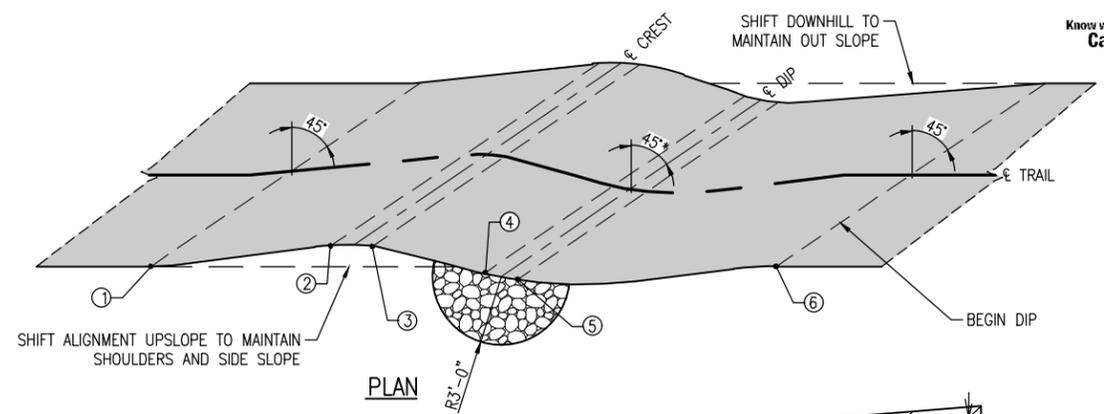
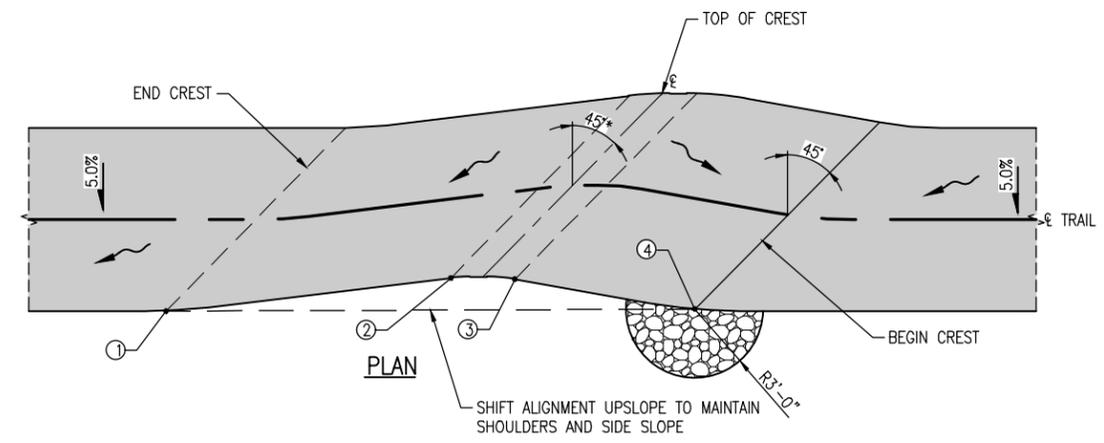
Project No./Code	SANTA FE RAIL TRAIL
	CN S100550
Sheet Number:	11



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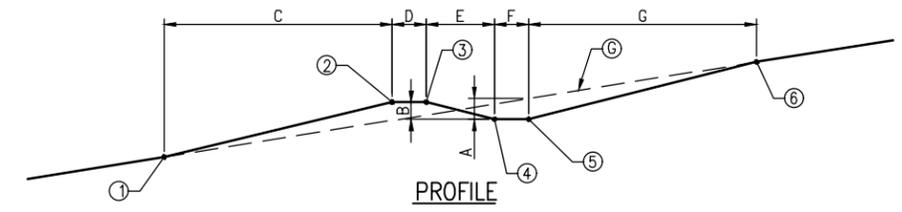
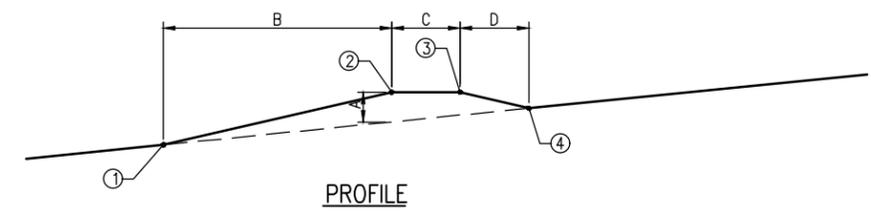
* HORIZONTAL ANGLE TO TRAIL CENTERLINE

* HORIZONTAL ANGLE TO TRAIL CENTERLINE



ISOMETRIC

ISOMETRIC



PROFILE

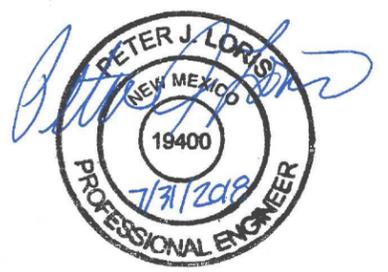
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2%-5%	0.67	-	10.0	12.0	1.5	-	3.5	-12.0
5%-8%	-	-	-	-	-	-	-	-

G	A		B		C		D		E		F		G	
	FT	%	FT	%	FT	%	FT	%	FT	%	FT	%	FT	%
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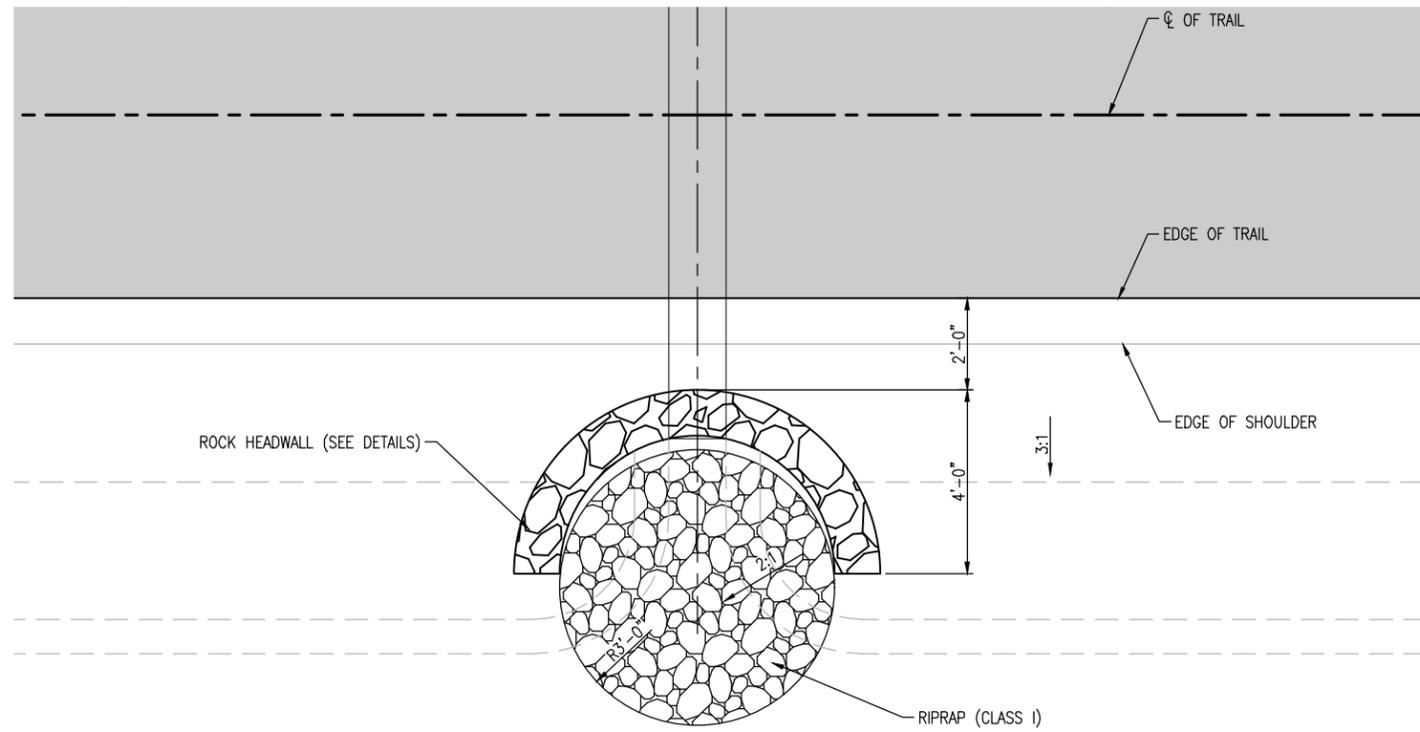
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ROLLING DIP

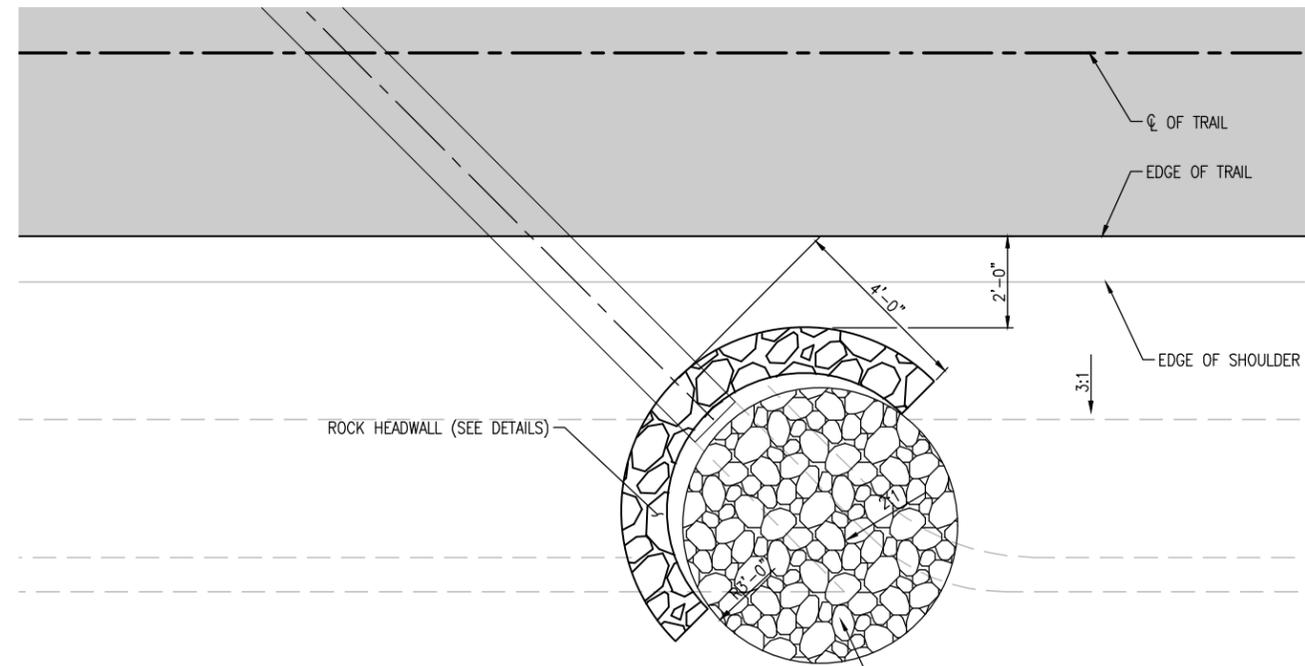


G:\7.2 Clients\325 - Santa Fe County\NA\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-06-10 Segment 5 Details (5 Sheets).dwg Jul 31, 2018 - 12:11pm

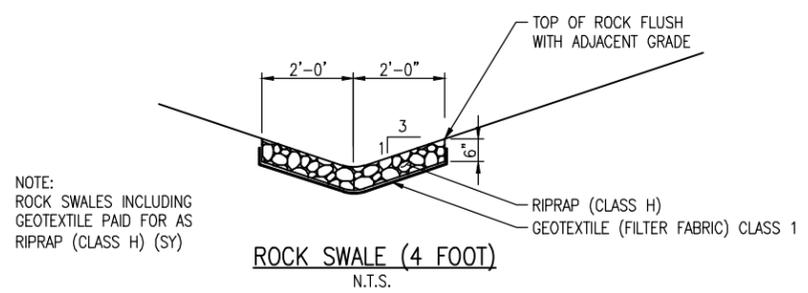
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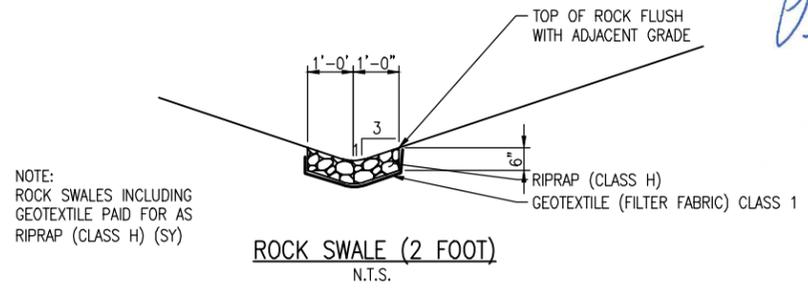
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PERPENDICULAR LAYOUT
N.T.S.



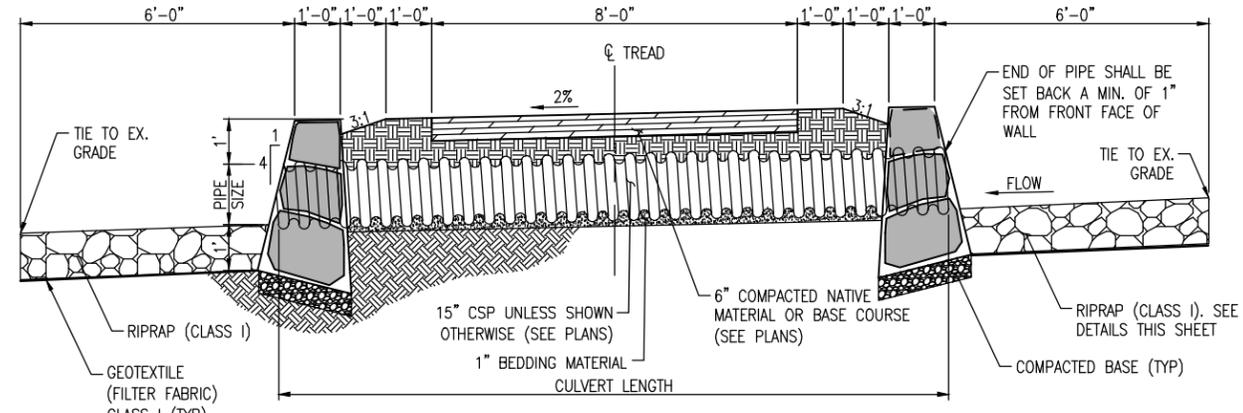
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N.T.S.



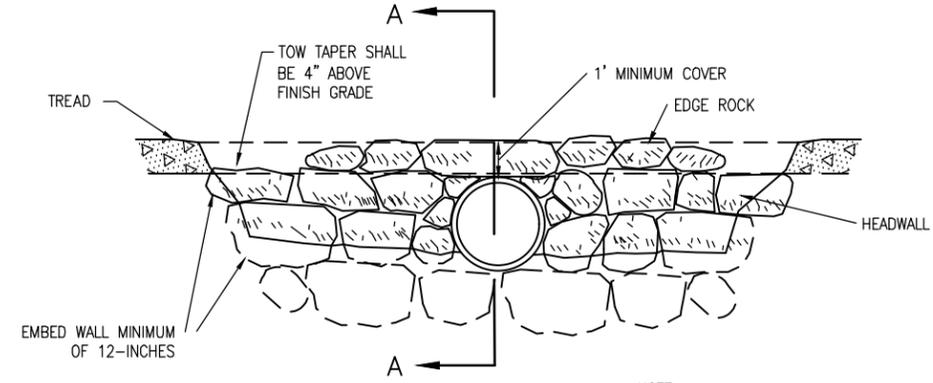
ROCK SWALE (4 FOOT)
N.T.S.



ROCK SWALE (2 FOOT)
N.T.S.



SECTION A-A
(ROCK HEADWALL)



END VIEW
(ROCK HEADWALL)

NOTE:
1. TOP COURSE AND ROCKS WITHIN 12" OF PIPE SHALL BE NEATLY GROUTED. ALL GROUT SET BACK A MINIMUM OF 1" FROM FACE OF WALL

G:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-06-10 Segment 5 Details (5 Sheets).dwg Jul 31, 2018 - 12:11pm

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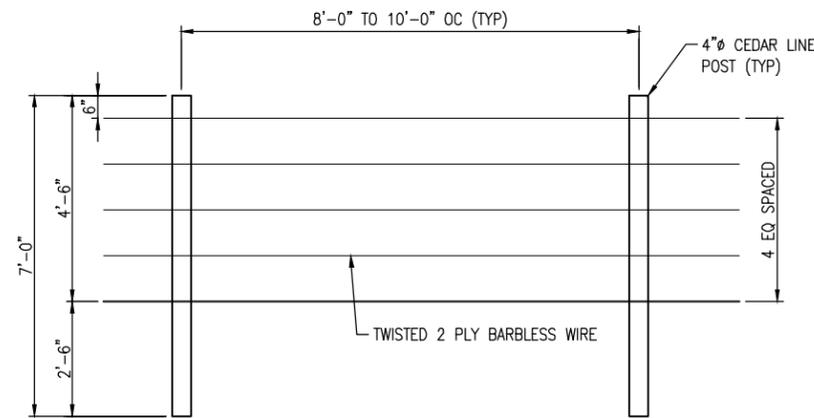
SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL DETAILS DRAINAGE FEATURES			
ISSUED BY: LORIS AND ASSOCIATES, INC.			
Project No. 325-10101	Revised:		
Sheet Subset: DT-03	Subset Sheets:	5	Sheet Number: 13

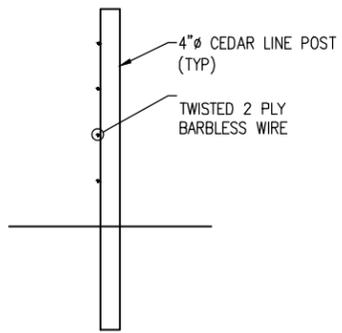
Project No./Code
SANTA FE RAIL TRAIL
CN S100550
Sheet Number: 13



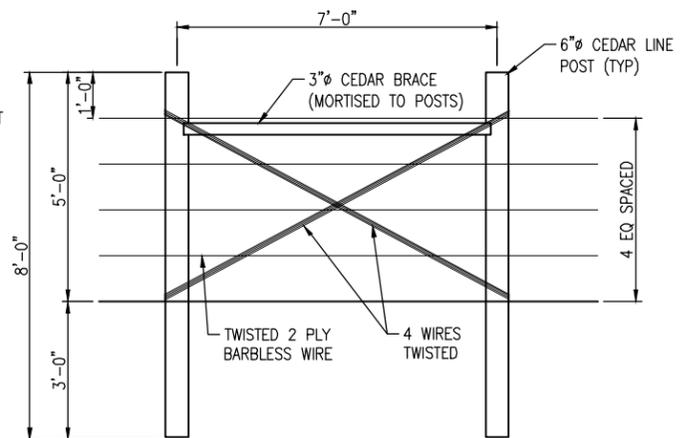
Know what's below. Call before you dig.



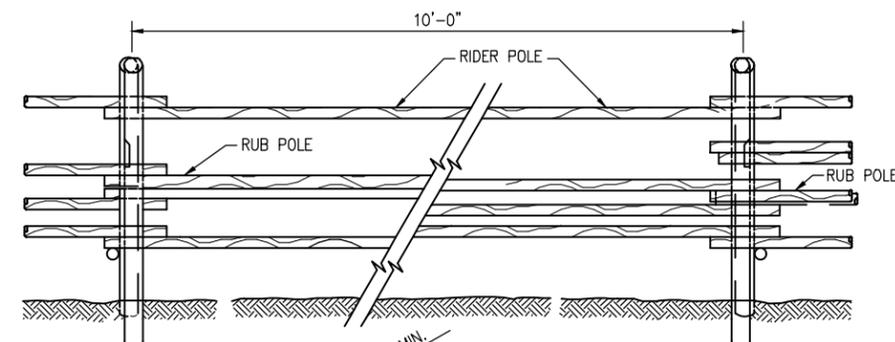
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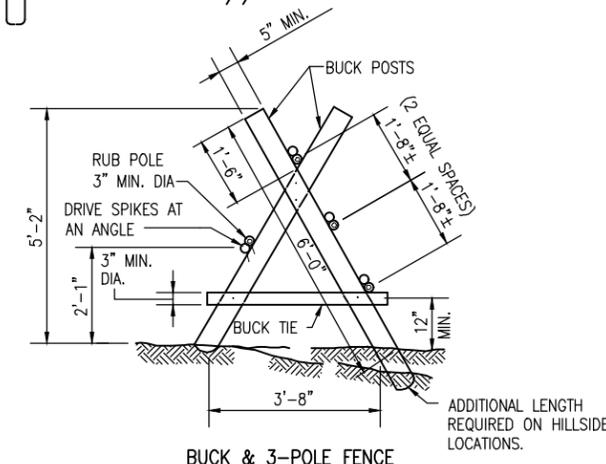
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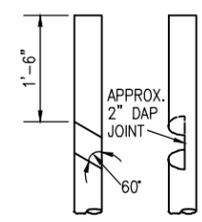
TYPICAL BRACE DETAIL



NOTE:
1. MOUNT NO TRESPASSING SIGNS (TYPE 7) AT EACH END OF FENCE.



BUCK & 3-POLE FENCE



BUCK POST JOINT DETAIL

BUCK AND POLE FENCE

NOTE:
BOTH BUCK POSTS TO BE NOTCHED AS SHOWN.

- NOTES:**
- 1. SPIKES SHALL BE USED AS FASTENERS. TWO SPIKES SHALL BE USED TO FASTEN BUCK POSTS TOGETHER. ONE SPIKE SHALL BE USED TO FASTEN POLES, BRACES & BUCK TIES TO BUCK POSTS.
 - 2. POLES, TIES, & BUCK POSTS SHALL BE OF MATERIAL AS SHOWN IN THE SPECIFICATIONS.



gs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(06-10) Segment 5 Details (5 Sheets).dwg Jul 31, 2018 - 12:11pm

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Last Modification Date:	Initials:
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SHEET REVISIONS	

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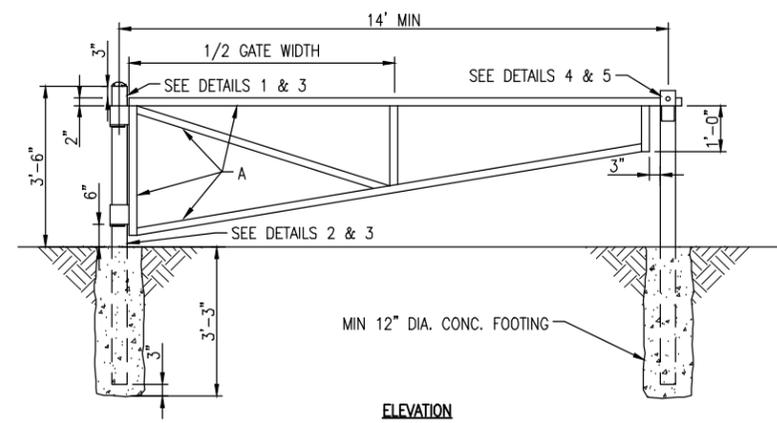
SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL DETAILS	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Project No. 325-10101
Revised:	Sheet Subset: DT-04
Subset Sheets:	5

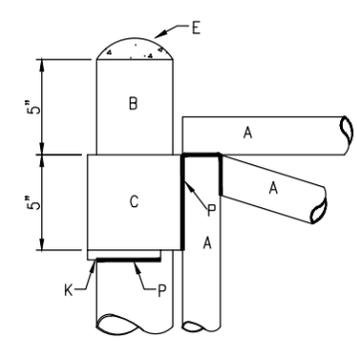
Project No./Code
SANTA FE RAIL TRAIL
CN S100550
Sheet Number: 14



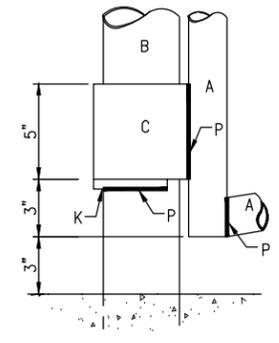
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Call before you dig.



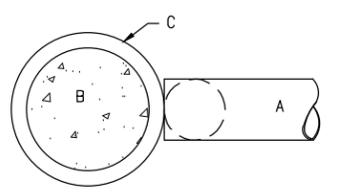
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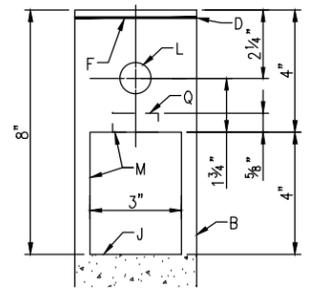
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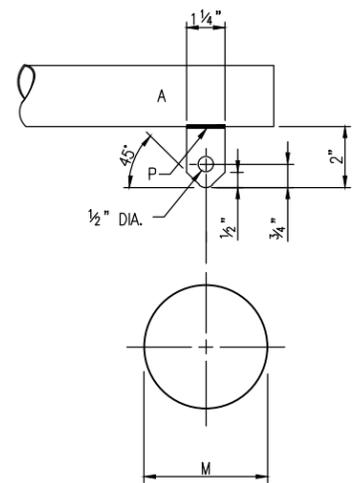
DETAIL 2



DETAIL 3



DETAIL 4



DETAIL 5

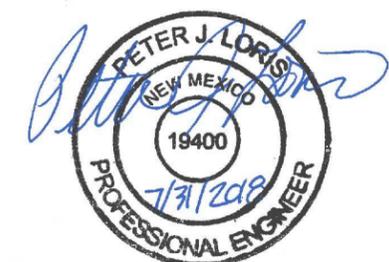
GENERAL NOTE:

1. ALL STEEL PIPE SHALL BE LEFT UNPAINTED.

CONSTRUCTION NOTES:

- A. 2" NOMINAL DIA. GALV. PIPE, MIN. WEIGHT PER FT. 3.65 LBS.
- B. 4" DIA. BLACK STEEL PIPE, MIN. 10.79 LBS./FT., CONC. FILLED.
- C. 5" DIA. BLACK STEEL PIPE, MIN 14.62 LBS./FT., PAINT W/2 COATS ALUM. PAINT.
- D. 1/4" BUTT WELD ALL AROUND.
- E. CONCRETE ROUNDED AT TOP OF POST.
- F. 3/8"x4 1/4" DIA. STEEL PLATE.
- G. 3/8" STEEL PLATE FLANGE.
- J. STOP CONC. IN PIPE AT THIS POINT.
- K. 1/2" SQ. STEEL BAR FOR HINGE SUPPORT. POSITION BAR TO ALLOW UNRESTRICTED GATE ROTATION THROUGH ENTIRE SWING OF GATE OPENING.
- L. 1" DIA. FINGER HOLE.
- M. MAKE A 3"x4" CUT IN PIPE.
- N. 3,000 PSI AIR ENTRAINED FLY ASH CONC.
- P. WELD ALL 2" PIPE & FIXTURE CONNECTIONS WITH 3/8" FILLET ALL AROUND.
- Q. 1 1/2"x5/8" SLOT FOR STEEL PLATE FLANGE. (OPPOSITE SIDE)

VEHICULAR GATE



G:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(06-10) Segment 5 Details (5 Sheets).dwg Jul 31, 2018 - 12:11pm

COMPUTER FILE INFORMATION

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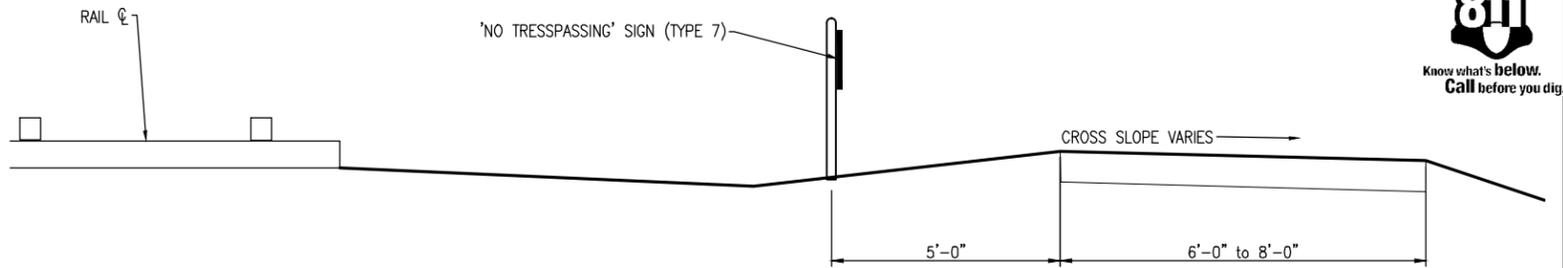


SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

**SANTA FE RAIL TRAIL
DETAILS**

ISSUED BY: LORIS AND ASSOCIATES, INC.	
Project No. 325-10101	Revised:
Sheet Subset: DT-05	Subset Sheets: 5

Project No./Code	SANTA FE RAIL TRAIL
CN S100550	
Sheet Number:	15

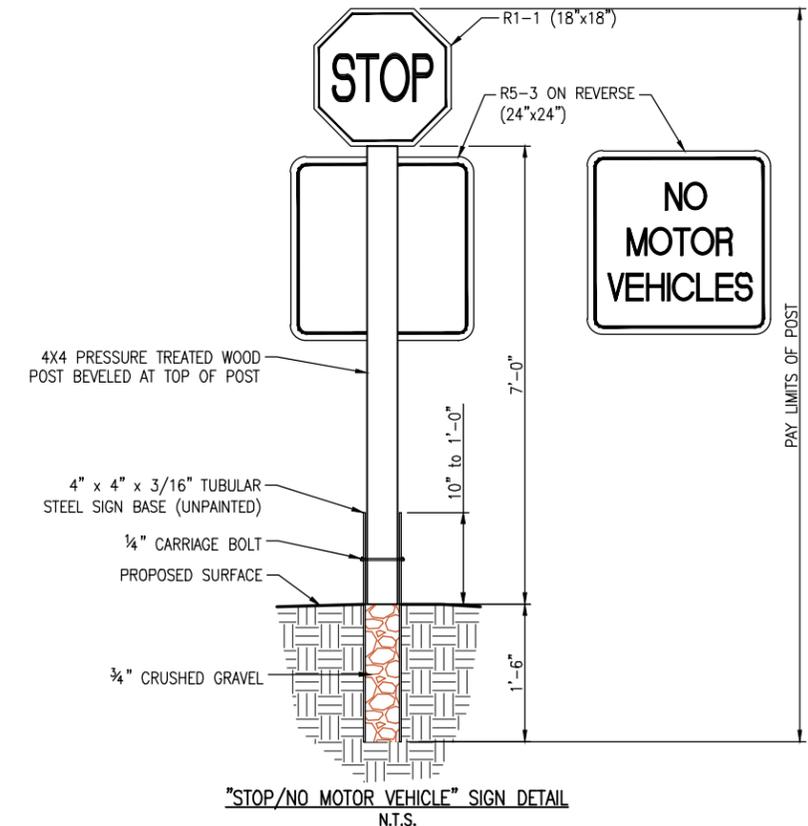
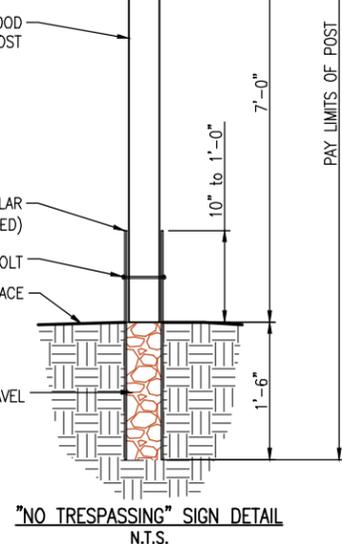
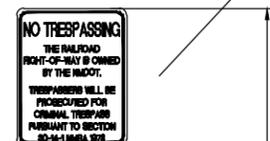
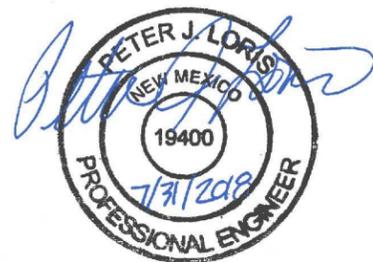
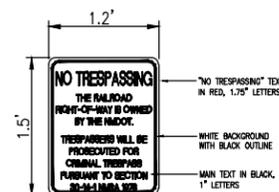


SIGN TABLE

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1	R1-1		STOP	18"x18"	8'-0"	1.93	2	3.86		16	*	
2	R5-3		NO MOTOR VEHICLES	24"x24"	N/A	4.00	2	8		0	*	
3	R15-1		GRADE CROSSING (CROSSBUCK)	24"x4.5"	N/A	1.36	0	0		0	*	
4	R15-8		LOOK	18"x9"	7'-3"	1.13	0	0		0	*	
5	W3-1		STOP AHEAD	18"x18"	8'-0"	2.25	0	0		0	*	
6	W10-1		GRADE CROSSING ADVANCED WARNING	24" DIA.	8'-0"	3.14	0	0		0	*	
7	SPECIAL		NO TRESPASSING	1.2'x1.5'	8'-0"	1.80	19	34.2		136	*	
8	SPECIAL		MILE MARKER *	5"x3.5"	4'-6" ★	N/A	N/A	N/A		N/A	1	
9	SPECIAL		VARIABLE TRAIL CONDITIONS EXIST	18"x18"	8'-0"	2.25	4	9		32	*	
10	Δ	W11-15	COMBINATION BIKE AND PED CROSSING	30"x30"	11'-6" ★	6.25	2	16.5	2		*	
		W16-9P	AHEAD	24"x12"		2.0						
11	Δ	W11-15	COMBINATION BIKE AND PED CROSSING	30"x30"	11'-6" ★	6.25	2	16.5	2		*	
		W16-7P(L)	DOWNWARD DIAGONAL ARROW (PLAQUE)	24"x12"		2						
12	◇	R1-5	YIELD TO PEDESTRIANS	36"x36"	11'-6" ★	9.0	1	9	1	9.5	*	
							TOTALS	31	97.06	5	184	1

"NO TRESPASSING" SIGN LOCATION DETAIL

"NO TRESPASSING" SIGN PLACED ALONG TRAIL AT 500 FT MAXIMUM SPACING (SEE PLAN & PROFILE FOR LOCATIONS, ENDS OF WIRE FENCE (POST NOT REQUIRED), AND AT ALL FOUR CORNERS OF A CROSSING.



▼ A MINIMUM 2' HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN THE EDGE OF TRAIL CLOSEST EDGE OF ANY SIGN.

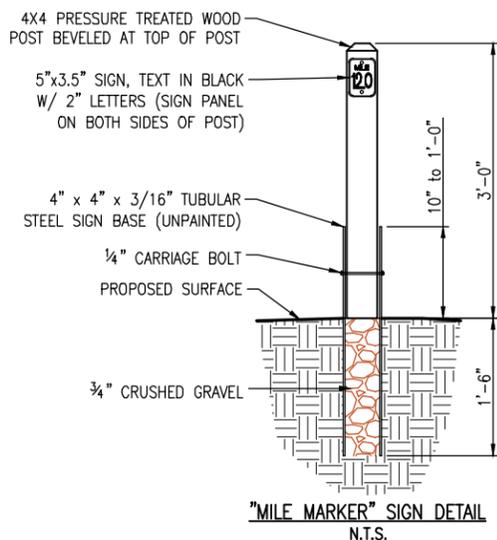
* ADJUST LOCATION AS DIRECTED BY THE PROJECT MANAGER.

★ FOR INFORMATION ONLY

■ FOR INFORMATION ONLY, PAID FOR AS PANEL SIGN SQ. FT.

Δ 6' EDGE OF ASPHALT TO EDGE OF SIGN

◇ 12' EDGE OF ASPHALT TO EDGE OF SIGN



COMPUTER FILE INFORMATION

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SHEET REVISIONS



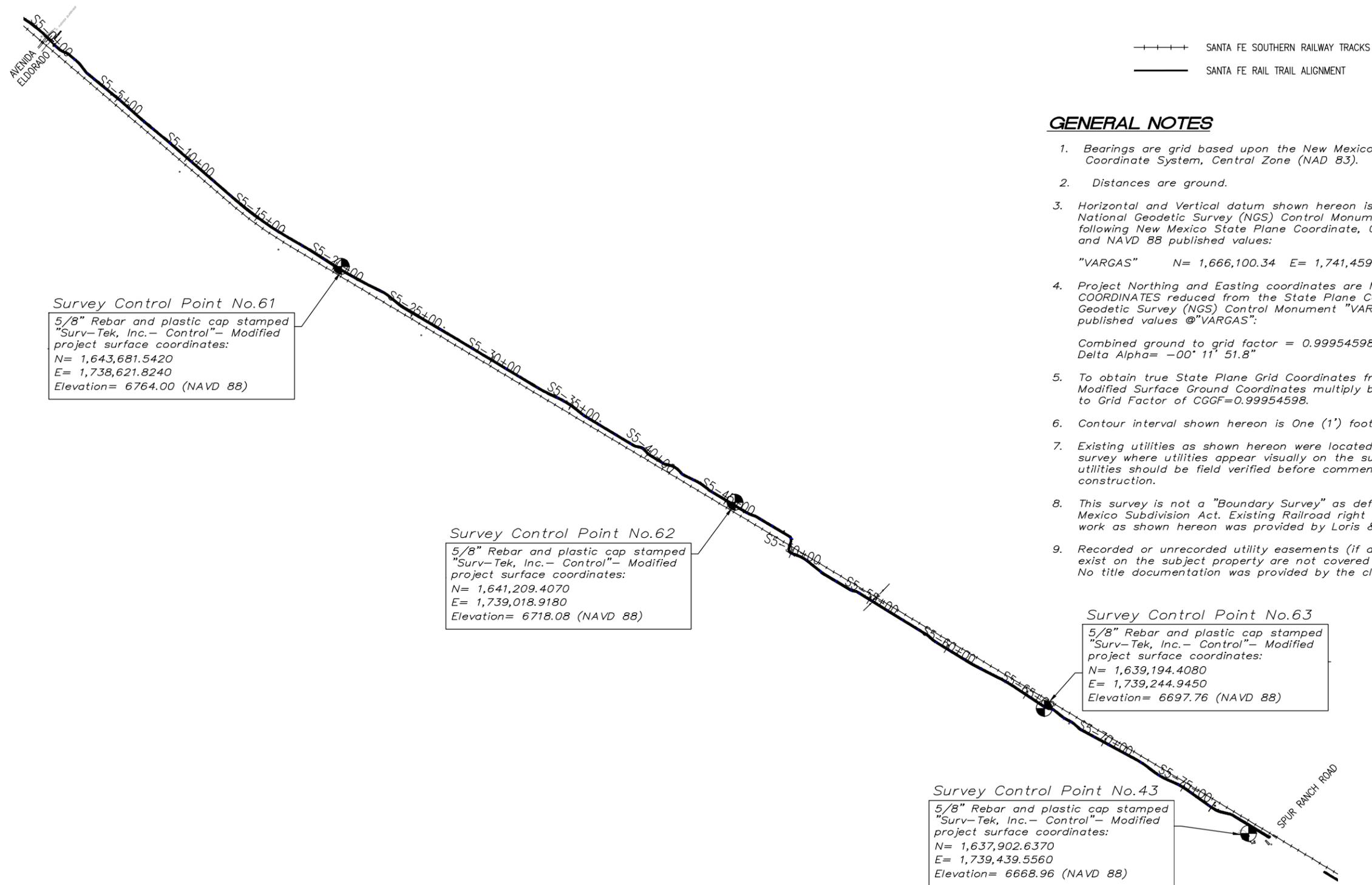
SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL SIGN DETAILS

ISSUED BY: LORIS AND ASSOCIATES, INC.	Revised:
Project No. 325-10101	Subset Sheets:
Sheet Subst: SG-01	1

Project No./Code	SANTA FE RAIL TRAIL
	CN S100550
Sheet Number:	16

G:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(11) Segment 5 Signs (1_Signs).dwg Jul 31, 2018 - 12:11pm



GENERAL NOTES

- Bearings are grid based upon the New Mexico State Plane Coordinate System, Central Zone (NAD 83).
- Distances are ground.
- Horizontal and Vertical datum shown hereon is based upon the National Geodetic Survey (NGS) Control Monument "VARGAS" having the following New Mexico State Plane Coordinate, Central Zone, NAD 83 and NAVD 88 published values:
"VARGAS" N= 1,666,100.34 E= 1,741,459.16 Elev.= 7709.0
- Project Northing and Easting coordinates are MODIFIED SURFACE GROUND COORDINATES reduced from the State Plane Coordinates at the National Geodetic Survey (NGS) Control Monument "VARGAS" using the following published values @"VARGAS":
Combined ground to grid factor = 0.99954598
Delta Alpha= -00° 11' 51.8"
- To obtain true State Plane Grid Coordinates from the Project Modified Surface Ground Coordinates multiply by the Combined Ground to Grid Factor of CGGF=0.99954598.
- Contour interval shown hereon is One (1') foot.
- Existing utilities as shown hereon were located by field survey where utilities appear visually on the surface. All utilities should be field verified before commencement of any construction.
- This survey is not a "Boundary Survey" as defined in the New Mexico Subdivision Act. Existing Railroad right of way line work as shown hereon was provided by Loris & Associates.
- Recorded or unrecorded utility easements (if any) which may exist on the subject property are not covered by this survey. No title documentation was provided by the client.

Survey Control Point No.61
5/8" Rebar and plastic cap stamped "Surv-Tek, Inc.- Control"- Modified project surface coordinates:
N= 1,643,681.5420
E= 1,738,621.8240
Elevation= 6764.00 (NAVD 88)

Survey Control Point No.62
5/8" Rebar and plastic cap stamped "Surv-Tek, Inc.- Control"- Modified project surface coordinates:
N= 1,641,209.4070
E= 1,739,018.9180
Elevation= 6718.08 (NAVD 88)

Survey Control Point No.63
5/8" Rebar and plastic cap stamped "Surv-Tek, Inc.- Control"- Modified project surface coordinates:
N= 1,639,194.4080
E= 1,739,244.9450
Elevation= 6697.76 (NAVD 88)

Survey Control Point No.43
5/8" Rebar and plastic cap stamped "Surv-Tek, Inc.- Control"- Modified project surface coordinates:
N= 1,637,902.6370
E= 1,739,439.5560
Elevation= 6668.96 (NAVD 88)



G:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(12) Segment Survey Control (1 Sheets).dwg Jul 31, 2018 - 12:11pm

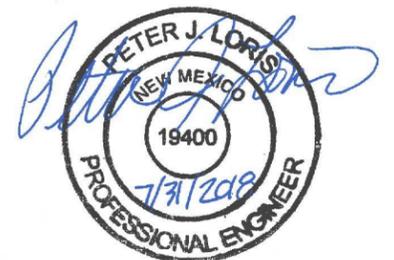
COMPUTER FILE INFORMATION		SHEET REVISIONS		 Loris and Associates, Inc. 100 Superior Plaza Way Suite 220 Superior, Colorado 80027 303.444.2073 www.LorisandAssociates.com	 SANTA FE COUNTY MP 4.86 to MP 3.35	SANTA FE RAIL TRAIL LAND SURVEY CONTROL DIAGRAM		Project No./Code	
Creation Date: 01/18/2018	Initials: LX					ISSUED BY: LORIS AND ASSOCIATES, INC.		SANTA FE RAIL TRAIL	
Last Modification Date:	Initials:			Project No. 325-10101		CN S100550			
Full Path:				Sheet Subset: SY-1		Subset Sheets: 1			
Drawing File Name:				Sheet Number: 17					
AutoCAD Ver. 2009	Scale: AS NOTED	Units: ENGLISH							



Know what's below.
Call before you dig.

Line Table		
Name	Length	Direction
L1	39.98	S08°14'53.80"W
L2	49.98	S00°09'13.33"W
L3	9.51	S22°14'23.28"E
L4	63.36	S00°26'48.61"E
L5	45.27	S12°32'18.40"W
L6	206.22	S00°47'28.73"E
L7	154.74	S01°26'02.49"W
L8	140.70	S00°31'35.05"E
L9	458.67	S00°53'16.50"W
L10	87.84	S10°12'26.83"E
L11	126.19	S11°13'23.96"E
L12	90.78	S13°46'14.92"E
L13	77.46	S01°09'50.60"E
L14	280.77	S09°30'29.64"E
L15	573.02	S09°02'22.47"E
L16	63.49	S15°01'01.14"E
L17	297.23	S09°02'24.66"E
L19	9.05	S15°22'28.14"W
L20	91.11	S08°42'37.98"E
L21	95.78	S13°33'23.87"E
L22	46.11	S01°55'05.29"E
L23	228.57	S09°14'51.08"E
L24	12.70	S19°59'52.68"E
L25	198.72	S09°17'08.55"E
L26	47.03	S65°53'25.94"W
L27	37.01	S19°30'10.37"E
L28	96.44	S01°35'29.84"E
L29	157.67	S09°20'56.48"E
L30	15.87	S26°35'00.47"E
L31	216.03	S08°12'11.37"E
L32	228.13	S08°36'17.37"E
L33	32.85	S02°35'41.27"W
L34	203.59	S08°43'10.93"E
L35	130.52	S12°43'19.98"E
L36	185.06	S06°39'41.07"E
L37	22.19	S27°02'49.09"E
L38	47.94	S00°51'57.68"E
L39	27.80	S13°18'20.45"E
L40	35.69	S00°58'05.35"W
L41	293.92	S11°34'48.39"E
L42	20.22	S12°13'25.44"E
L43	46.91	S03°00'03.76"E
L44	52.60	S16°35'56.55"E
L45	169.21	S04°26'10.35"E
L46	25.72	S09°09'26.44"E
L47	46.48	S26°20'59.31"E
L48	230.11	S09°05'25.24"E

Curve Table							
Name	Radius	Arc Length	Tangent Length	Chord Length	Middle Ordinate	External Distance	Chord Direction
C1	50.00	19.54	9.90	19.42	0.95	0.97	S11°02'35"E
C2	50.00	19.02	9.63	18.90	0.90	0.92	S11°20'36"E
C3	100.00	22.66	11.38	22.62	0.64	0.65	S06°02'45"W
C4	100.00	23.26	11.69	23.21	0.68	0.68	S05°52'25"W
C5	500.00	19.42	9.71	19.42	0.09	0.09	S00°19'17"W
C6	1000.00	34.22	17.11	34.21	0.15	0.15	S00°27'14"W
C7	1000.00	24.68	12.34	24.68	0.08	0.08	S00°10'51"W
C8	1910.31	397.08	199.26	396.36	10.31	10.36	S04°39'35"E
C9	200.00	4.95	2.48	4.95	0.02	0.02	S09°29'52"E
C10	5649.08	206.22	103.12	206.21	0.94	0.94	S07°44'32"E
C11	500.00	39.52	19.77	39.51	0.39	0.39	S08°57'39"E
C12	200.00	8.89	4.45	8.89	0.05	0.05	S12°29'50"E
C13	200.00	44.01	22.09	43.92	1.21	1.22	S07°28'03"E
C14	251.92	26.23	13.13	26.22	0.34	0.34	S04°52'37"E
C15	1000.00	7.28	3.64	7.28	0.01	0.01	S09°17'59"E
C16	500.00	52.16	26.11	52.14	0.68	0.68	S12°01'42"E
C17	500.38	140.18	70.55	139.72	4.90	4.95	S06°59'20"E
C18	300.00	51.05	25.59	50.99	1.09	1.09	S04°09'56"E
C19	50.00	23.21	11.82	23.01	1.34	1.38	S22°20'25"E
C20	50.00	44.52	23.86	43.06	4.87	5.40	S10°07'59"E
C21	50.00	21.02	10.67	20.86	1.10	1.13	S03°19'55"W
C22	50.00	21.12	10.72	20.96	1.11	1.14	S20°48'33"E
C23	112.52	88.07	46.43	85.84	8.51	9.20	S10°29'05"E
C24	50.00	19.06	9.65	18.95	0.91	0.92	S01°01'01"W
C25	100.00	20.31	10.19	20.28	0.52	0.52	S07°44'15"E
C26	100.00	12.79	6.40	12.78	0.20	0.20	S05°34'58"E
C27	150.00	28.14	14.11	28.10	0.66	0.66	S14°37'22"E
C28	150.00	28.04	14.06	28.00	0.65	0.66	S14°38'31"E
C29	19.37	26.12	15.48	24.19	4.24	5.43	S27°52'38"W
C30	20.00	28.40	17.19	26.08	4.83	6.38	S21°11'00"W
C31	200.00	62.52	31.52	62.27	2.44	2.47	S10°32'49"E
C32	200.00	26.45	13.24	26.43	0.44	0.44	S05°33'38"E
C33	50.00	15.04	7.58	14.98	0.56	0.57	S17°57'58"E
C34	50.00	16.04	8.09	15.97	0.64	0.65	S17°23'36"E
C35	50.00	9.77	4.90	9.76	0.24	0.24	S03°00'18"E
C36	50.00	9.87	4.95	9.86	0.24	0.24	S03°03'45"E
C37	1000.00	69.86	34.94	69.84	0.61	0.61	S10°43'15"E
C38	1000.00	105.78	52.94	105.73	1.40	1.40	S09°41'31"E
C39	50.00	17.79	8.99	17.70	0.79	0.80	S16°51'15"E
C40	50.00	23.10	11.76	22.89	1.33	1.36	S13°48'43"E
C41	95.45	27.15	13.67	27.06	0.96	0.97	S05°17'39"E
C42	100.00	24.91	12.52	24.85	0.77	0.78	S06°10'08"E
C43	101.18	20.49	10.28	20.45	0.52	0.52	S05°47'28"E
C44	1455.14	11.47	5.73	11.47	0.01	0.01	S11°48'44"E
C45	626.64	91.30	45.73	91.22	1.66	1.67	S07°16'08"E
C46	343.12	73.45	36.86	73.31	1.96	1.97	S10°00'43"E
C47	300.00	63.68	31.96	63.56	1.69	1.70	S10°31'03"E
C48	100.00	30.01	15.12	29.89	1.12	1.14	S17°45'13"E
C49	100.00	30.12	15.18	30.01	1.13	1.15	S17°43'12"E



gs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(13) Segment 5\Horizontal Control (1 - Sheets).dwg Jul 31, 2018 - 12:12pm

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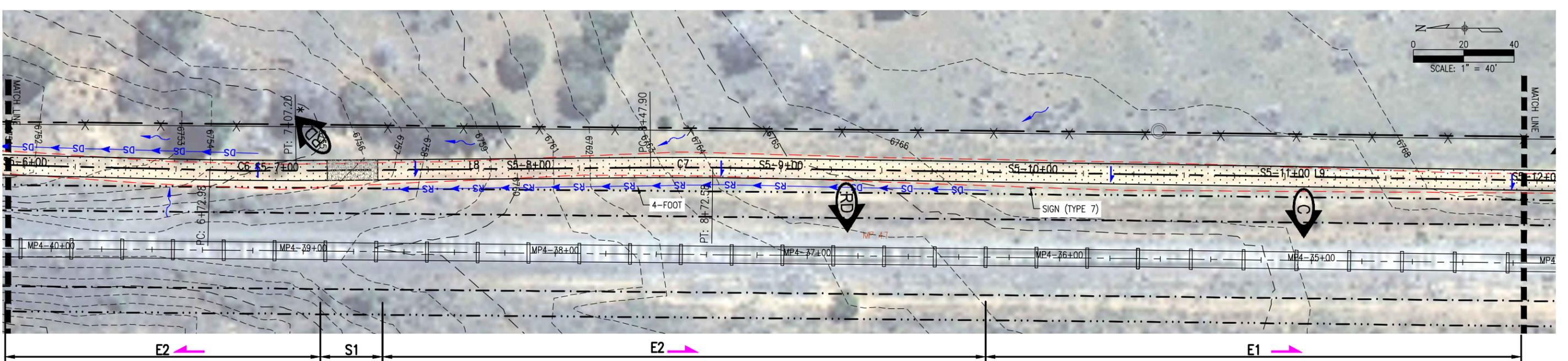
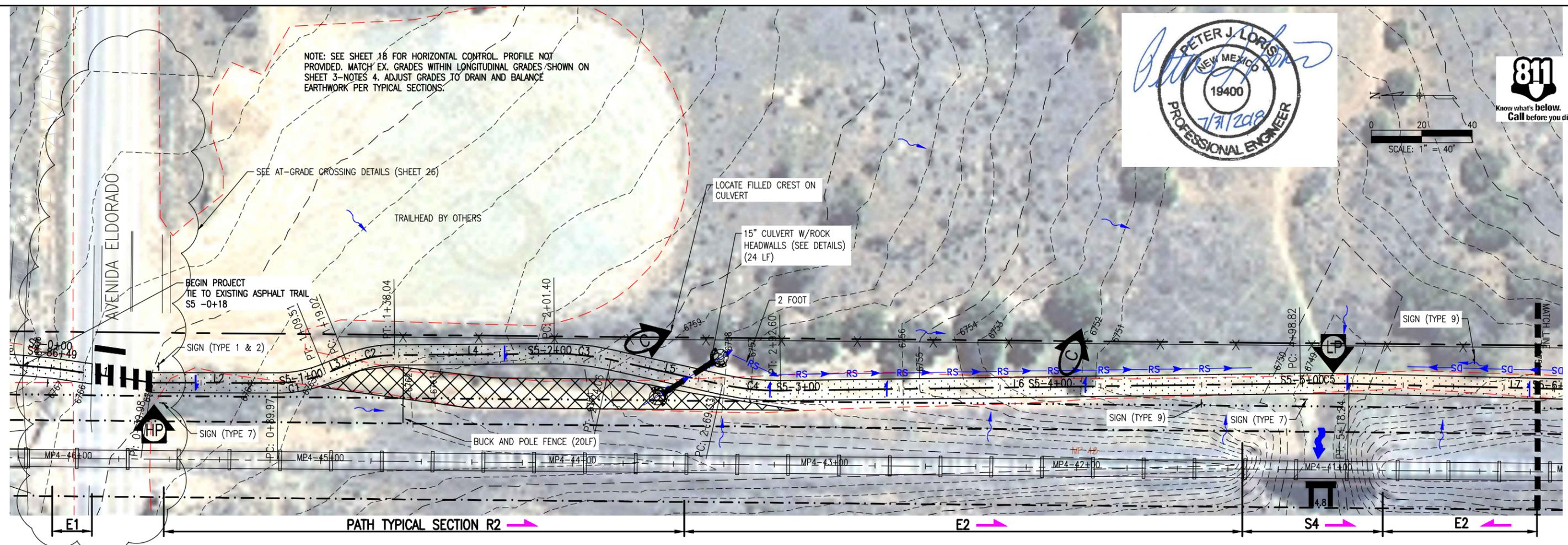
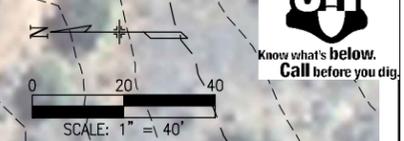
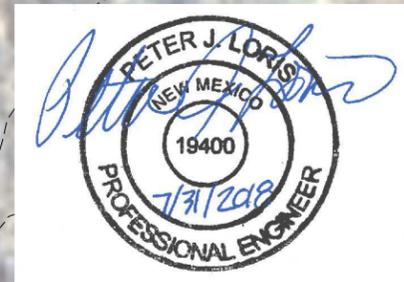
SANTA FE RAIL TRAIL
 SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL HORIZONTAL CONTROL	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Project No. 325-10101
Project No. 325-10101	Revised:
Sheet Subset: SY-02	Subset Sheets: 2

Project No./Code	
SANTA FE RAIL TRAIL	
CN S100550	
Sheet Number:	18

G:\72 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5 (14-20) Segment 5 (Designed), 3.4 to 4.9 (7 Sheets).dwg Jul 31, 2018 - 12:12pm

NOTE: SEE SHEET 18 FOR HORIZONTAL CONTROL. PROFILE NOT PROVIDED. MATCH EX. GRADES WITHIN LONGITUDINAL GRADES SHOWN ON SHEET 3-NOTES 4. ADJUST GRADES TO DRAIN AND BALANCE EARTHWORK PER TYPICAL SECTIONS.



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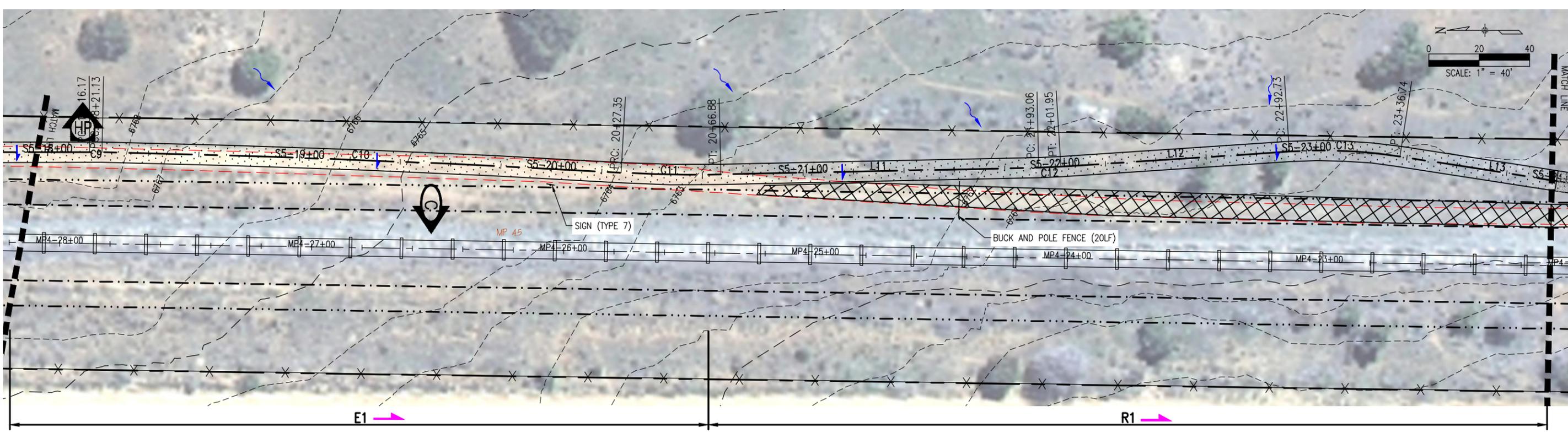
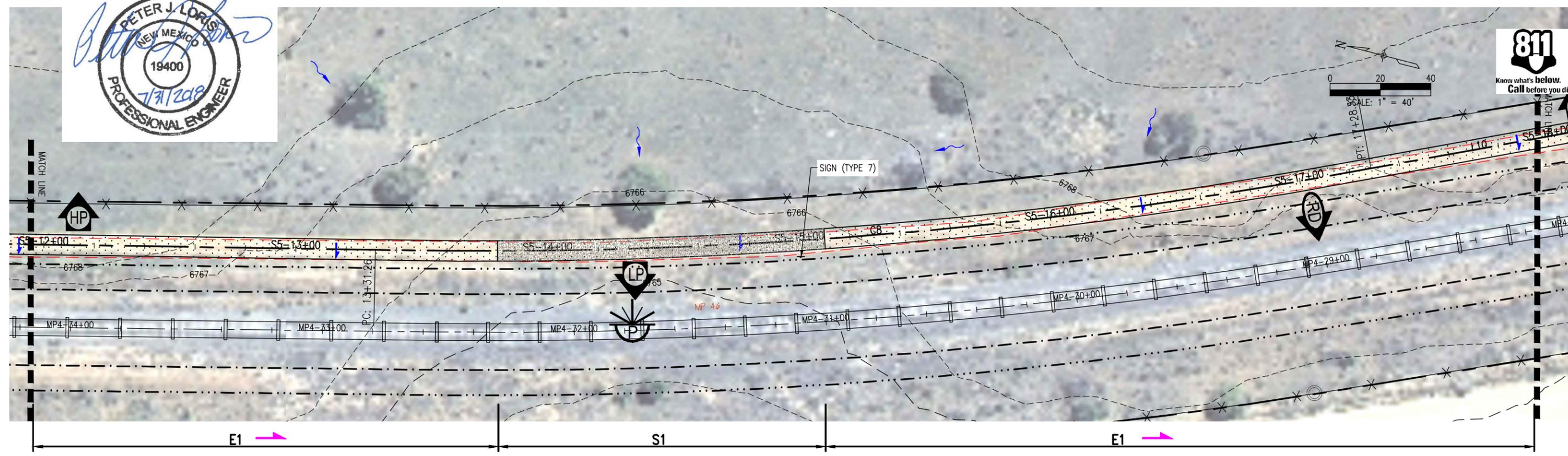
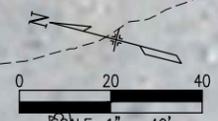
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SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL PLAN STA. S5-0+00 TO S5-12+00	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Revised:
Project No. 325-10101	Sheet Subset: P-1
Subset Sheets:	7

Project No./Code
SANTA FE RAIL TRAIL CN S100550
Sheet Number: 19



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AutoCAD Ver. 2009	Scale: AS NOTED Units: ENGLISH

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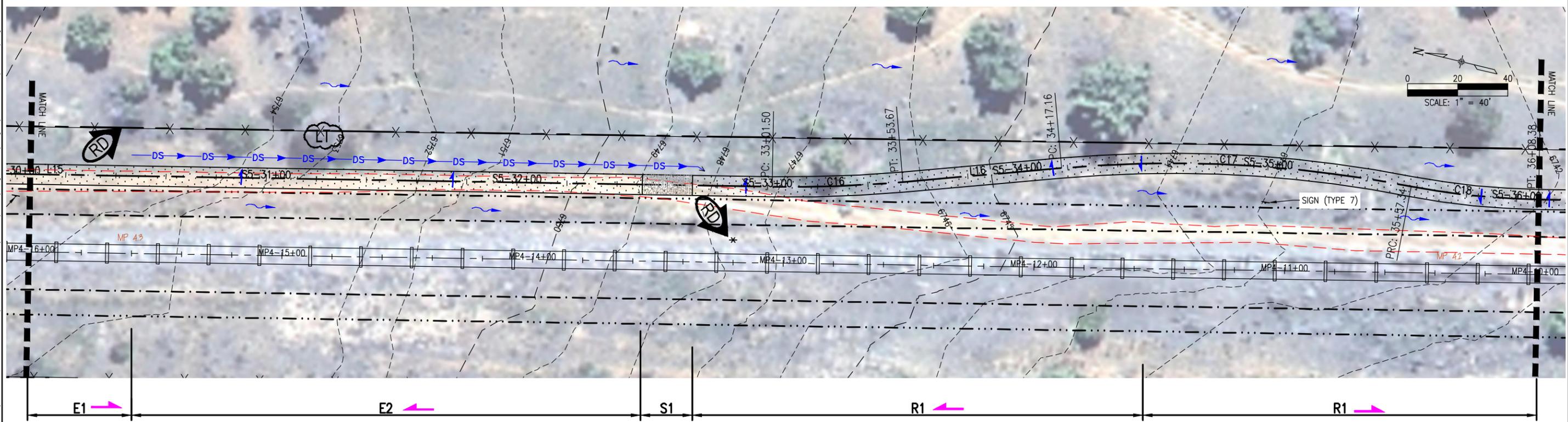
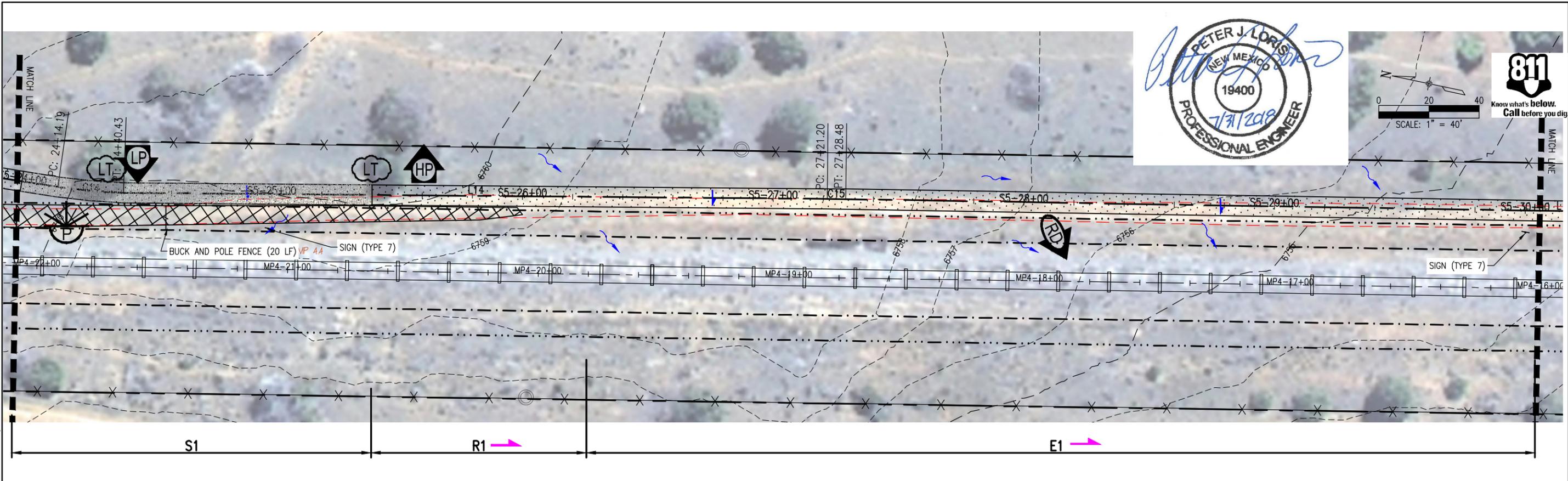


SANTA FE RAIL TRAIL
SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL PLAN	
STA S5-12+00 TO S5-24+00	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Revised:
Project No. 325-10101	Sheet Subset: P-2
Subset Sheets: 7	

Project No./Code
SANTA FE RAIL TRAIL
CN S100550
Sheet Number: 20

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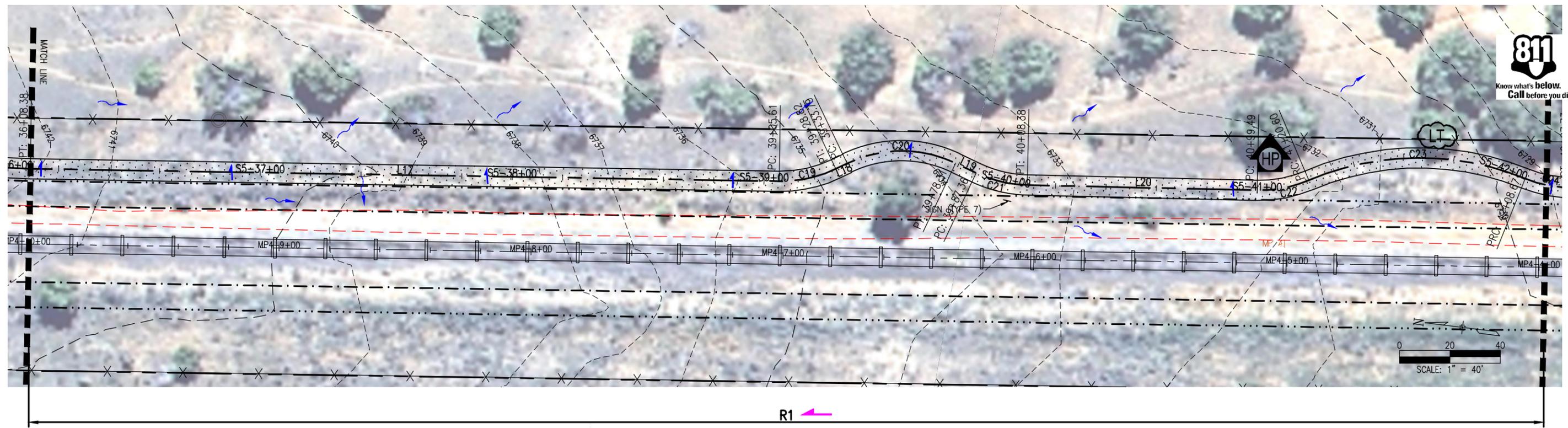
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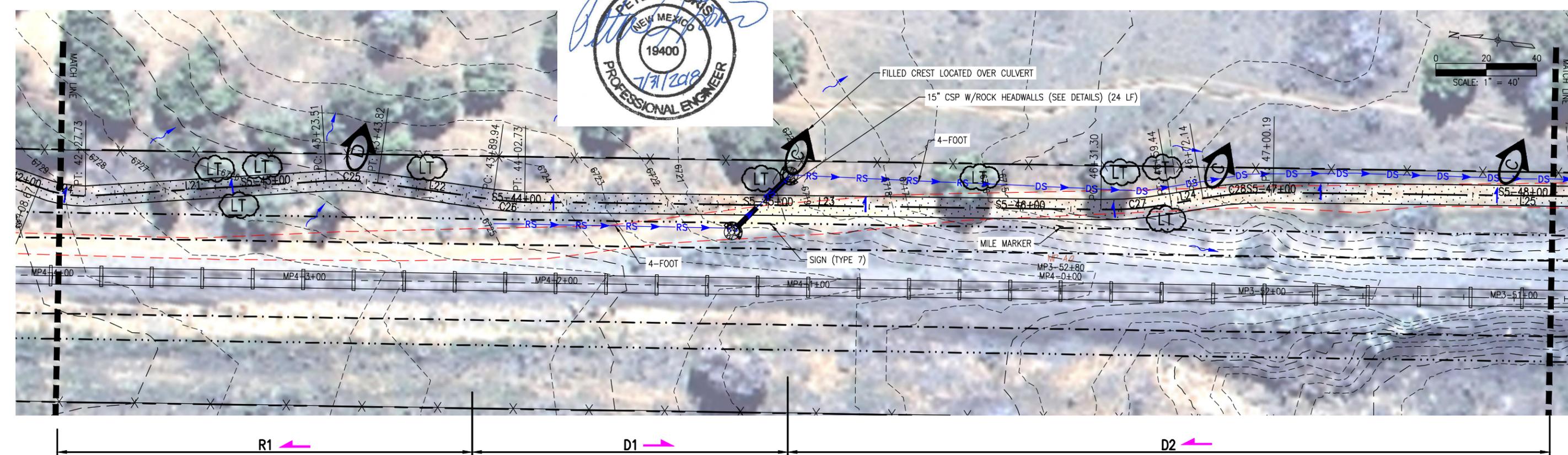
**SANTA FE RAIL TRAIL
 SEGMENT 5**
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL PLAN	
STA S5-24+00 TO S5-36+00	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Revised:
Project No. 325-10101	Sheet Subst: P-3
Subset Sheets: 7	

Project No./Code
SANTA FE RAIL TRAIL CN S100550
Sheet Number: 21



R1 ←



R1 ←

D1 →

D2 ←

G:\7.2 Clients\325 - Santa Fe Rail Trail\55-DWG-SEGMENT 5(10101)-(14-20)-Segment 5 (design) 3.4 to 4.9 (7 Sheets).dwg Jul 31, 2018 - 12:13pm

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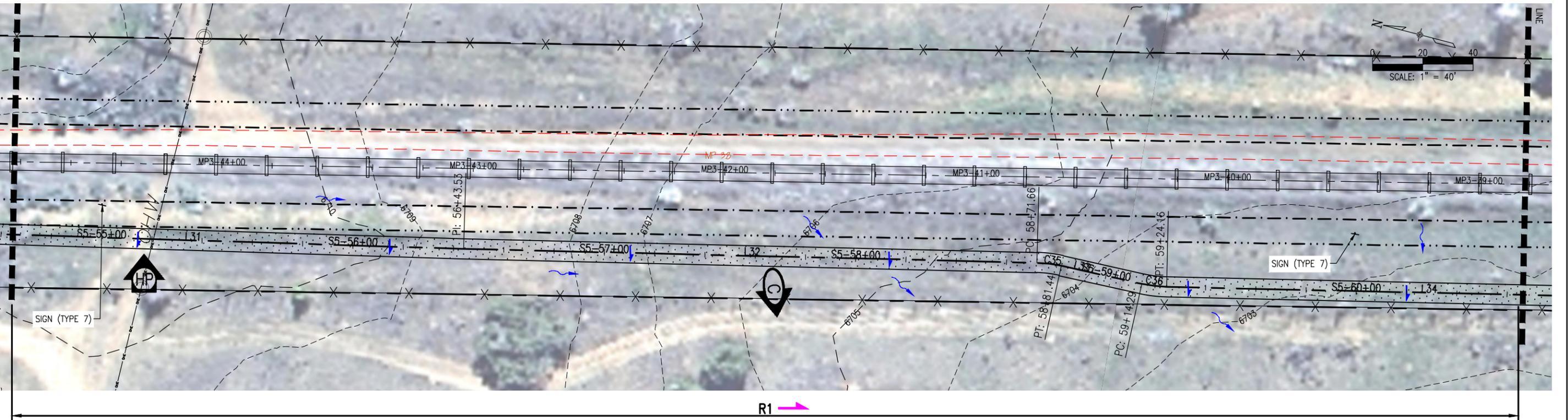


SANTA FE RAIL TRAIL
 SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL PLAN STA. S5-36+00 TO S5-48+00	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Revised:
Project No. 325-10101	Sheet Subset: P-4
Subset Sheets:	7

Project No./Code	SANTA FE RAIL TRAIL
	CN S100550
Sheet Number:	22

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Drawing File Name:	
AutoCAD Ver. 2009	Scale: AS NOTED Units: ENGLISH

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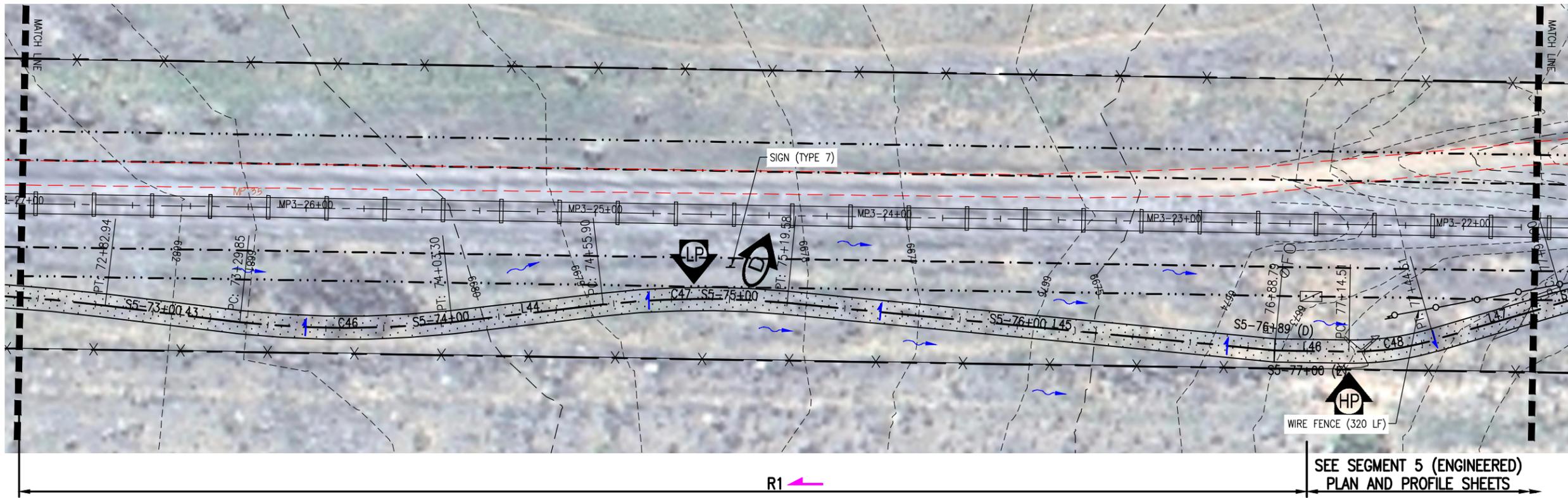
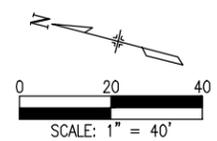
SANTA FE RAIL TRAIL
SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL PLAN	
STA. S5-48+00 TO S5-60+60	
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Project No. 325-10101	Sheet Subset: P-5
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Project No./Code	SANTA FE RAIL TRAIL
	CN S100550
Sheet Number:	23



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SEE SEGMENT 5 (ENGINEERED) PLAN AND PROFILE SHEETS

R1

gs:\7.2 Clients\325 - Santa Fe County\10101 - Santa Fe Rail Trail\55 DWG-SEGMENT 5\10101-(14-20) Segment 5 (designed), 3.4 to 4.9 (7 Sheets).dwg Jul 31, 2018 - 12:13pm

	= EX. TREE TO BE REMOVED		= TREAD DIP
	= LIMB TREE		= FILLED CREST (TYPE 1)
	= ROCK SWALE		= ROLLING DIP (TYPE 2)
	= DIRT SWALE		= DENOTES RIPRAP CLASS H REQUIRED
	= SAFETY ZONE (25')		= CROSS SLOPE DIRECTION (LOOKING UP STA.)
	= CLEAR ZONE (15')		= EX. DRAINAGE DIRECTION
	= PROPERTY LINE		= DIRECTION OF MAJOR DRAINAGE
	= EX. RR TRACKS		= HIGH POINT
	= EX. FENCE		= LOW POINT
	= PROPOSED METAL RAILING		= PROPOSED TRAIL
	= PROPOSED WIRE FENCE		= SEEDING/RESTORATION AREA
	= PROPOSED BUCK & POLE FENCE		= SOIL RETENTION BLANKET AREA
	= EXISTING ACCESS ROAD		= AGGR. BASE COURSE
	= PONDING AREA		= RIPRAP (TYPE H)
	= GRADE TO DRAIN		= RIPRAP (TYPE I)
			= TRESTLE LOCATION



SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

COMPUTER FILE INFORMATION	
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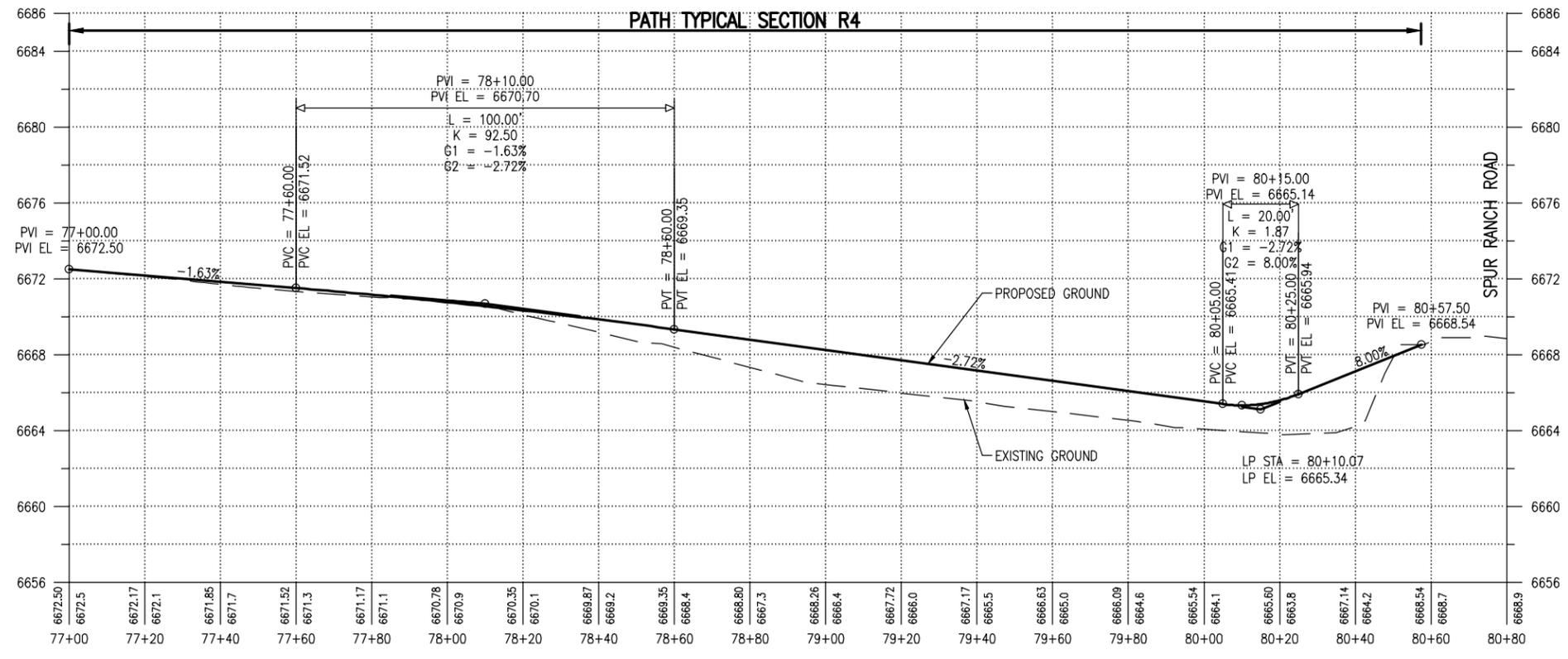
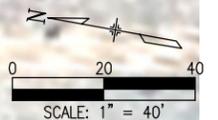
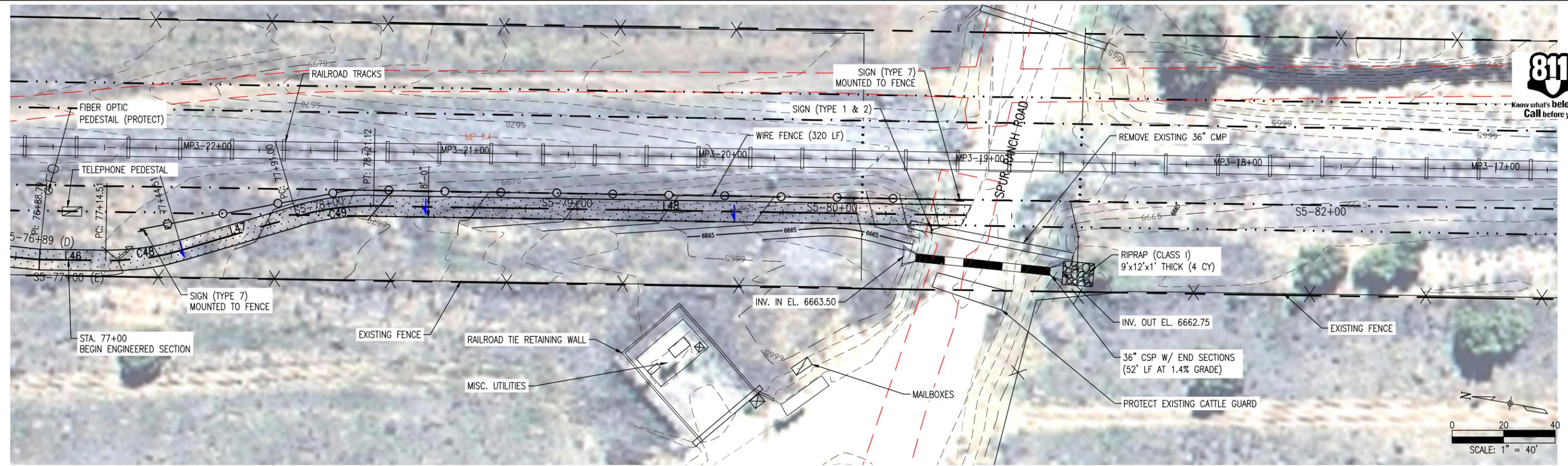


SANTA FE RAIL TRAIL PLAN STA. S5-72+60 TO S5-77+00	
ISSUED BY: LORIS AND ASSOCIATES, INC.	Project No. 325-10101
Project No. 325-10101	Revised:
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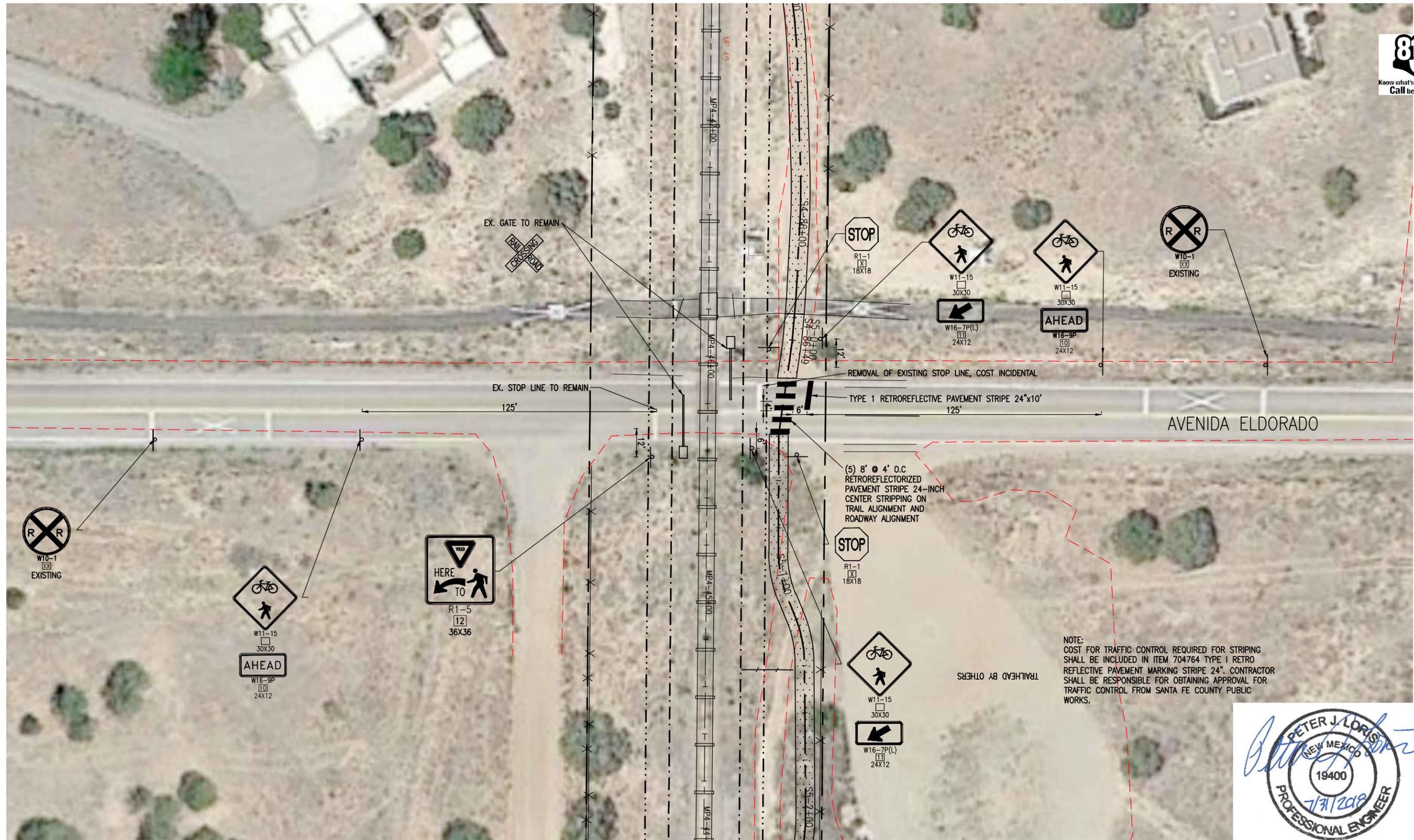
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SANTA FE RAIL TRAIL
 SEGMENT 5
 MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL - SPUR RANCH ROAD PLAN AND PROFILE STA. S5-77+00 to S5-82+80	
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Sheet Subset: PP-01	Subset Sheets: 1

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SANTA FE RAIL TRAIL	CN S100550
Sheet Number:	26



NOTE:
COST FOR TRAFFIC CONTROL REQUIRED FOR STRIPING SHALL BE INCLUDED IN ITEM 704764 TYPE I RETRO REFLECTIVE PAVEMENT MARKING STRIPE 24". CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FOR TRAFFIC CONTROL FROM SANTA FE COUNTY PUBLIC WORKS.



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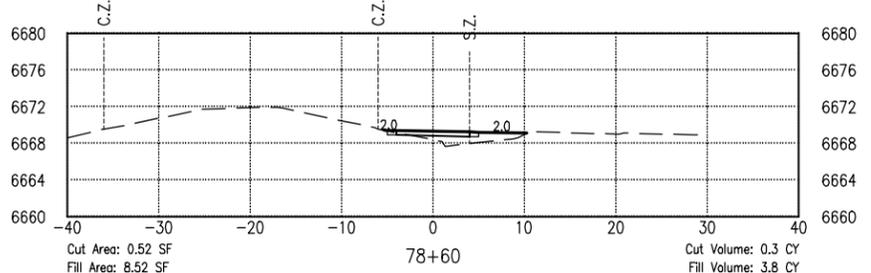
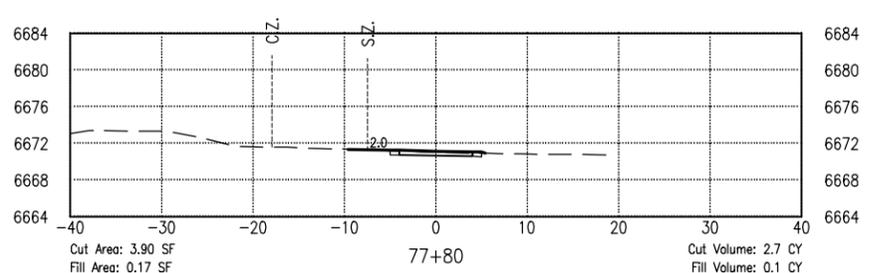
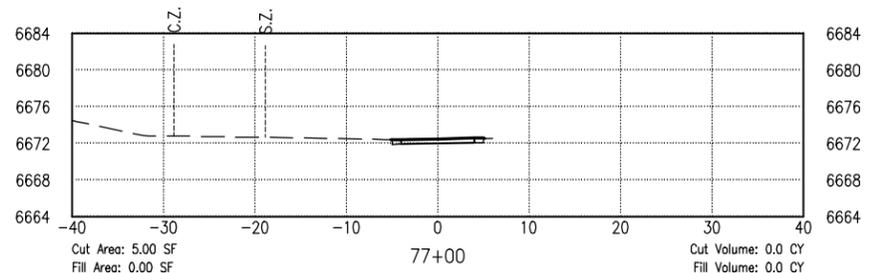
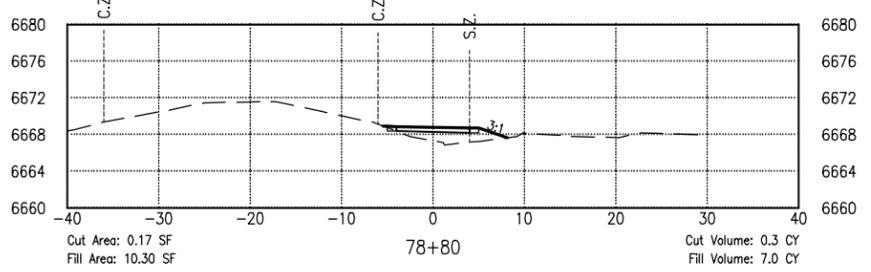
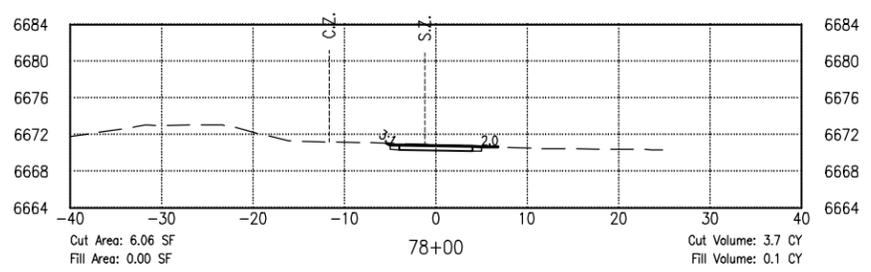
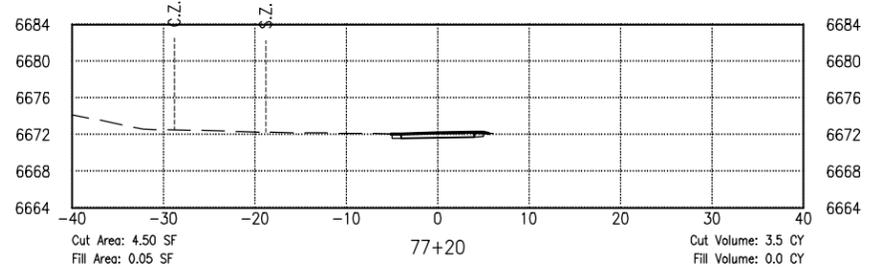
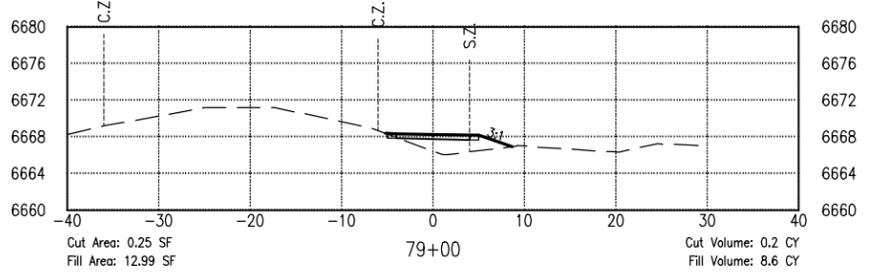
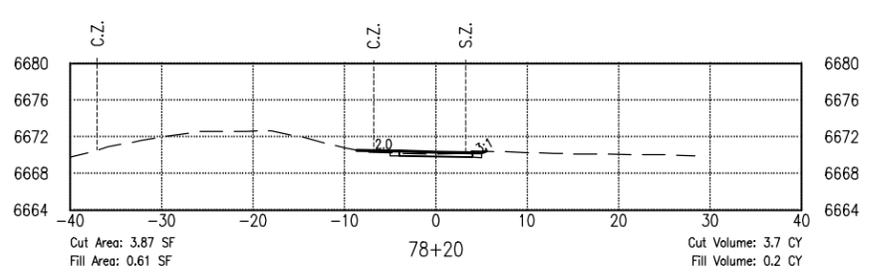
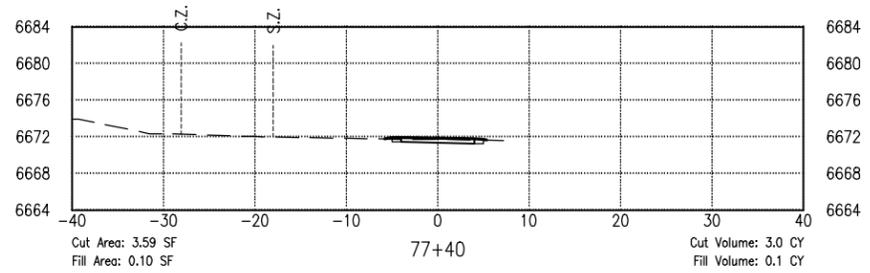
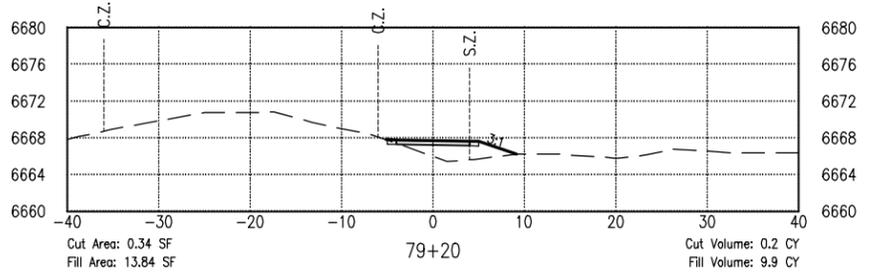
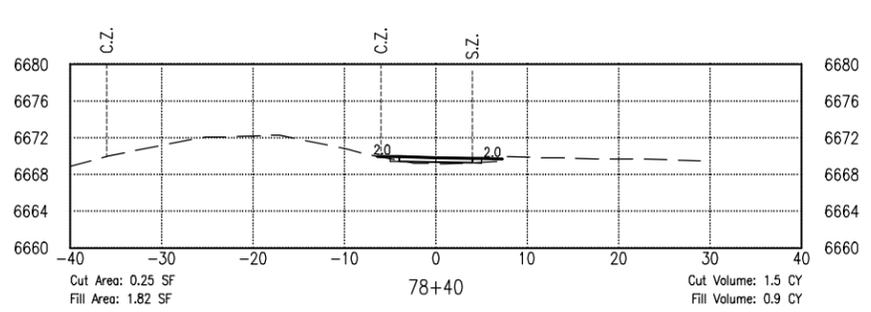
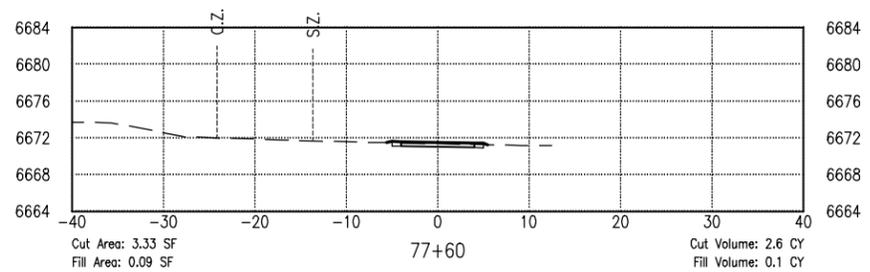
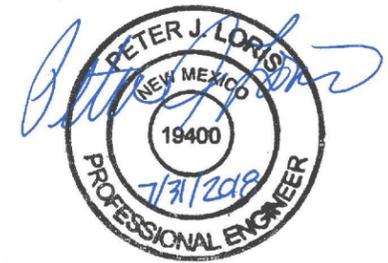
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SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL AT-GRADE CROSSING	
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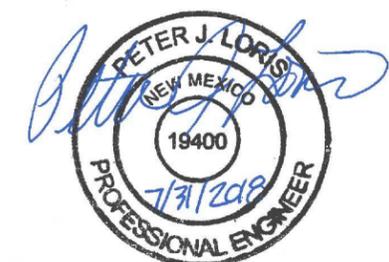
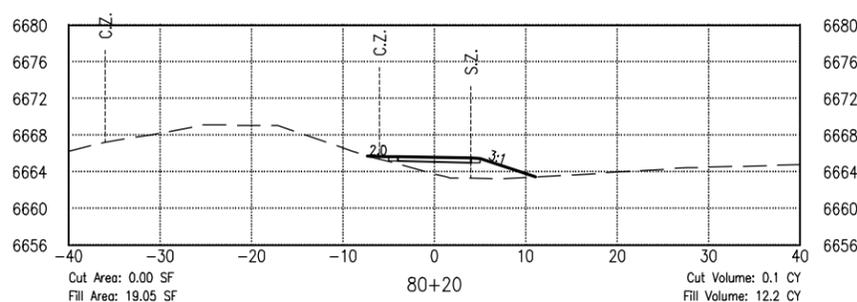
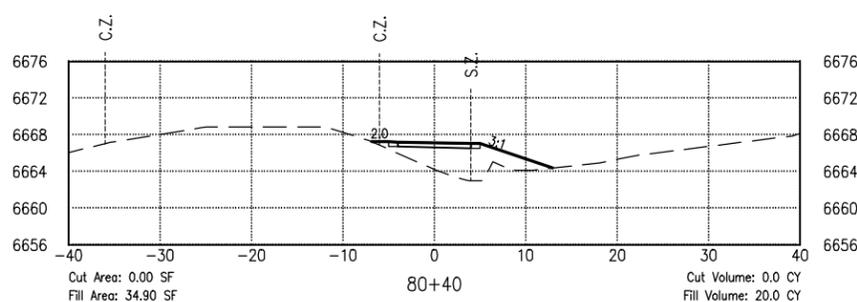
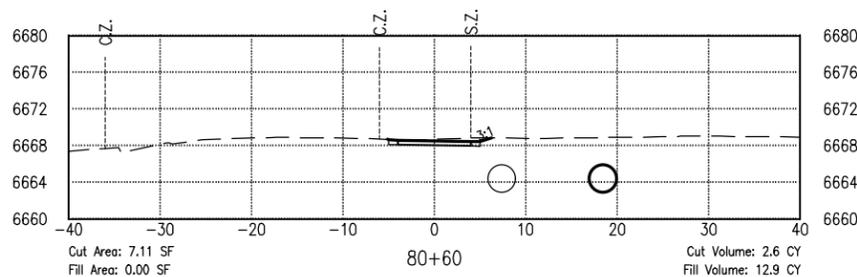
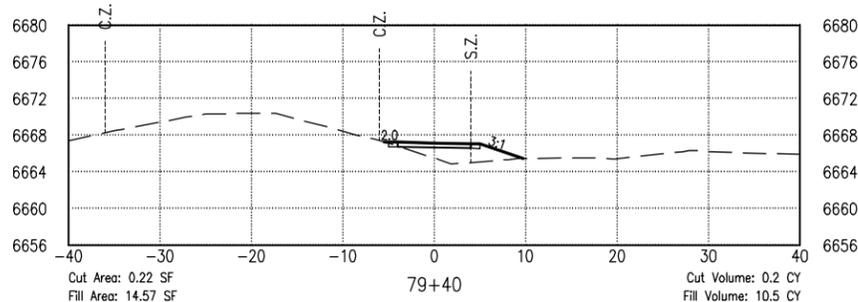
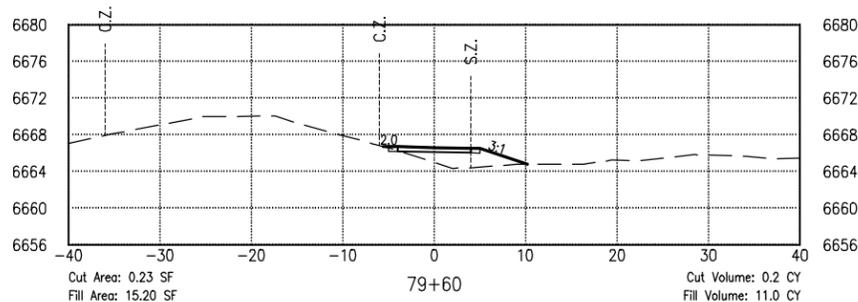
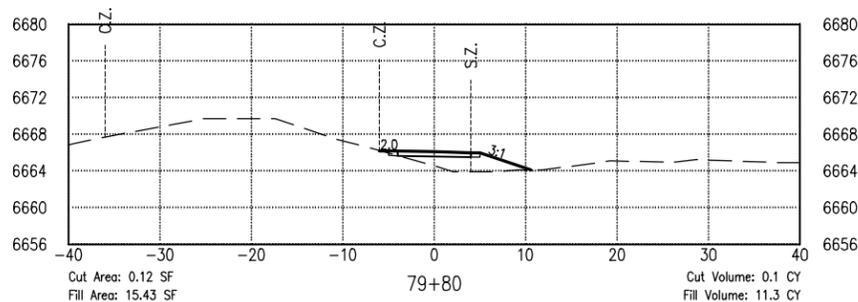
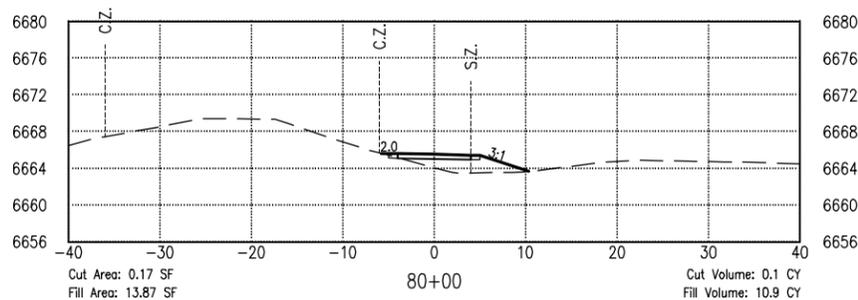
SANTA FE RAIL TRAIL
SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL - SPUR RANCH ROAD
CROSS SECTIONS
STA. 77+00 TO 79+20

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Sheet Subset: XS-01	Subset Sheets: 2

Project No./Code	SANTA FE RAIL TRAIL
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SEGMENT 5
MP 4.86 to MP 3.35

SANTA FE RAIL TRAIL - SPUR RANCH ROAD CROSS SECTIONS STA. 79+40 TO 80+60	
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