

INDEX OF SHEETS

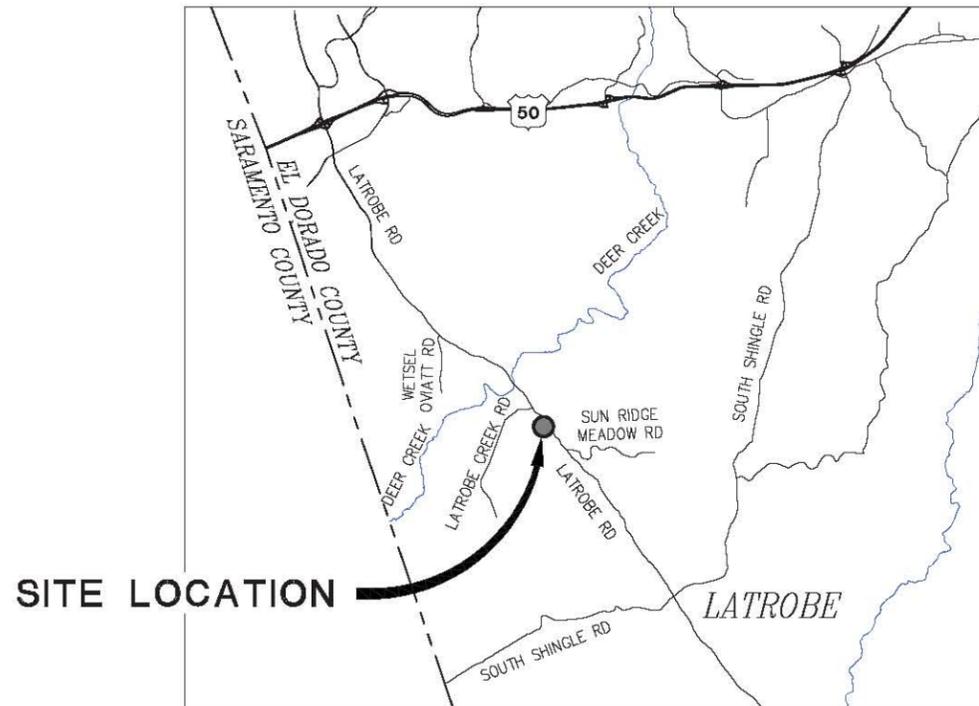
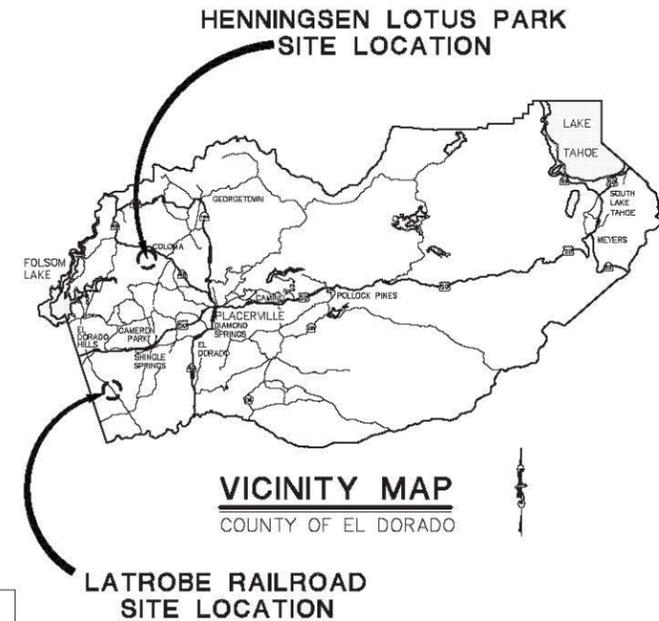
SHEET	PLAN SHEET	TITLE
1		TITLE SHEET
2-3	H1-H2	HENNINGSEN LOTUS PARK LAYOUT
4	H-3	HENNINGSEN LOTUS PARK CONSTRUCTION DETAILS
5	L-1	LATROBE RAILROAD SITE PLAN
6	L-2	LATROBE RAILROAD LAYOUT
7	L-3	LATROBE RAILROAD CHANNEL AND ARCH CULVERT
8	L-4	LATROBE RAILROAD TRACK RECONSTRUCTION

COUNTY OF EL DORADO, CA  
DEPARTMENT OF TRANSPORTATION

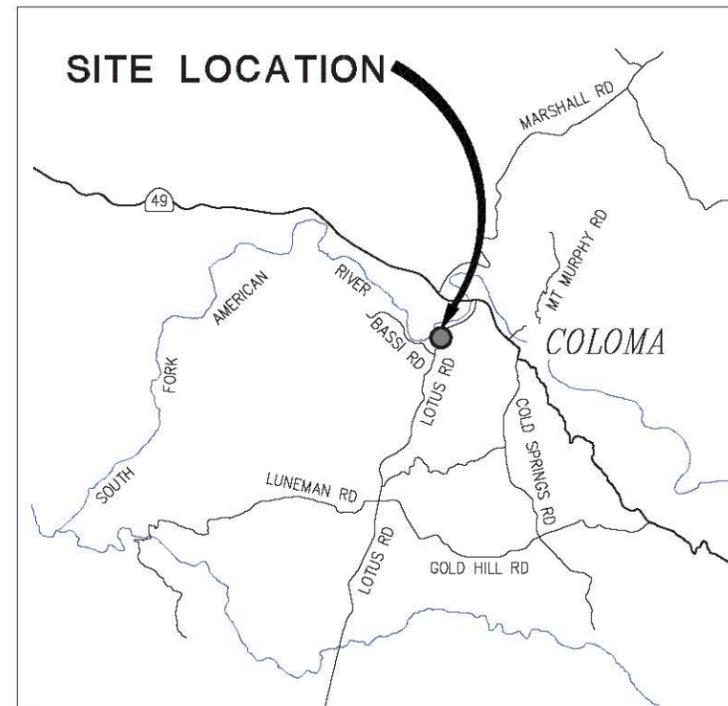
PROJECT PLANS FOR THE CONSTRUCTION OF  
**HENNINGSEN LOTUS PARK &  
LATROBE RAILROAD  
STORM DAMAGE REPAIRS**

IN THE COUNTY OF EL DORADO, DISTRICT 2 & 4

To be supplemented with Standard Plans and Specifications dated 2015, including the 2015 Revised Standard Specifications, of the California Department of Transportation, unless otherwise noted.



**LATROBE RAILROAD  
LOCATION MAP**  
NOT TO SCALE



**HENNINGSEN LOTUS PARK  
LOCATION MAP**  
NOT TO SCALE

**FEMA PROJECT No.**

ELELG56  
ELELG20

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS

MARK	DATE	BY



SUBMITTED BY:   
CIVIL ENGINEER  
STATE OF CALIFORNIA NO. \_\_\_\_\_  
DATE: 07/23/19

**BOARD OF SUPERVISORS**

I	JOHN HIDAHL
II	SHIVA FRENTZEN
III	BRIAN VEERKAMP
IV	LORI PARLIN
V	SUE NOVASEL

**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900  
2850 FAIRLAKE CT  
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

SUE NOVASEL CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	DATE
APPROVED BY:	DATE
RAFAEL MARTINEZ, DIRECTOR DEPARTMENT OF TRANSPORTATION	DATE
MATTHEW D. SNEITZER, P.E. NO. C58832 DEPUTY DIRECTOR, ENGINEERING	DATE

CONTRACT NO. 4025 CIP NO. 99455 & 99454

**HENNINGSEN LOTUS PARK &  
LATROBE RAILROAD  
STORM DAMAGE REPAIRS**

**TITLE SHEET**

SHEET 1 OF 8

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\99455 LOTUS PARK STREAMBANK RESTORE\CADD Files\Sheets\H-Sheets.dwg Layout Tab: H-1 Jul 08 2019 -- 2:10pm SMC/ky  
 FOR REDUCED PLANS  
 REVISION



SEE SHEET H-2

**NOTES:**

1. REFER TO SHEETS H-1 AND H-2 FOR APPROXIMATE LOCATIONS OF RSP, SHOULDER BACKING AND DECOMPOSED GRANITE PLACEMENT.
2. DIMENSIONS AND QUANTITIES SHOWN AT LOCATION(S) ARE APPROXIMATE. ACTUAL PLACEMENT LIMITS AND LOCATIONS WILL BE DETERMINED BY ENGINEER.
3. "RSP CL III/CL IV" INDICATES AN AGGREGATE SIZING OF RSP MATERIAL THAT IS COMPOSED OF BOTH CL III & CL IV SIZING (APPROXIMATELY 40/60 SPLIT OR AS DETERMINED BY ENGINEER)
4. APPROXIMATELY 3 EA. "PEDESTRIAN PATHS" MUST BE MADE AVAILABLE IN THE FINAL RSP SLOPE CONFIGURATION. LIMITS OF THE RSP & CONFIGURATION DETAILS OF THE PEDESTRIAN PATHS WILL BE DETERMINED BY ENGINEER.
5. ADDITIONAL SHOULDER BACKING MATERIAL MAY BE NEEDED IN EXCESS OF THE AVAILABLE MATERIAL SHOWN ON SHEET H-1.
6. REFER TO SHEET H-3 FOR CONSTRUCTION DETAILS.



QUANTITIES ALONG RIVERBANK SLOPE				
LOCATION	APPROXIMATE DIMENSIONS	RSP CL III/CL IV (METHOD B)	SHLD BACKING	DG (CY)
1	APPROX. 400' LONG X (VARIES 3'-20') WIDE X 3' THICK (AVG)	650 CY		
2	SHOULDER BACKING AT BACK OF WALK (AS NEEDED/SHOWN) 500 LF X (VARIES 0-6") X WIDTH AS SHOWN ON SHEET H-3		20 CY	
3	75' LONG X (VARIES 3'-12') WIDE X 3' DEEP	100 CY		15 CY
TOTAL		750 CY	20 CY	15 CY

**HENNINGSEN LOTUS PARK LAYOUT SCALE : AS SHOWN**



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **07/23/19**

DESIGNED: JIB  
 DRAWN: SGM  
 CHECKED: JIB  
 DATE: 05/30/19  
 ROAD NUMBER: -



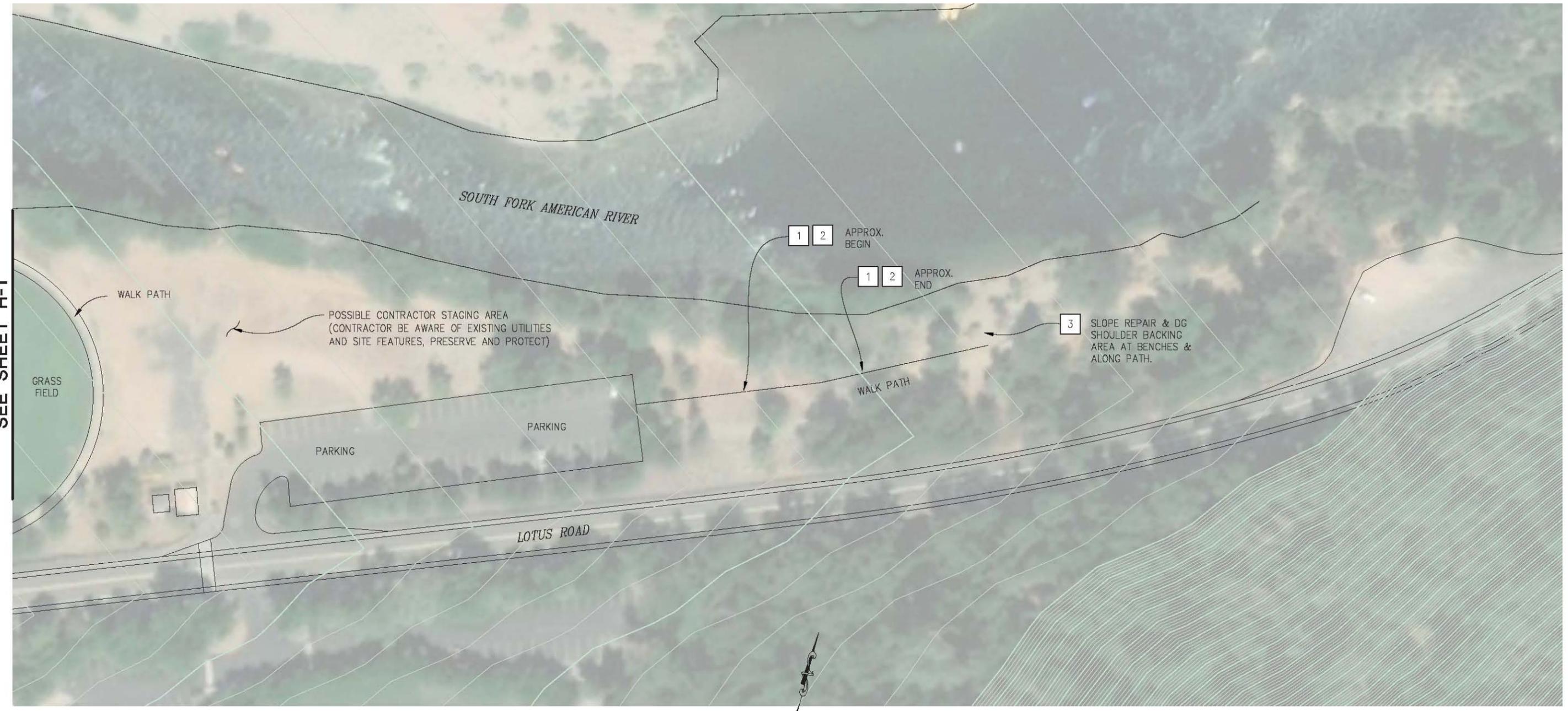
**COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK & LATROBE RAILROAD STORM DAMAGE REPAIRS**

SHEET  
**H-1**  
 2 OF 8  
 W.D. No. **99455**

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\99455 LOTUS PARK STREAMBANK RESTORE\CADD Files\Sheets\H-Sheets.dwg Layout Tab: H-2 Jul 08, 2019 2:11pm SMC\Key

SEE SHEET H-1



**SITE PLAN**  
SCALE: 1"=40'

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 07/23/19

DESIGNED: JIB SGM  
 DRAWN: SGM  
 CHECKED: JIB DATE: 05/21/19  
 ROAD NUMBER: -



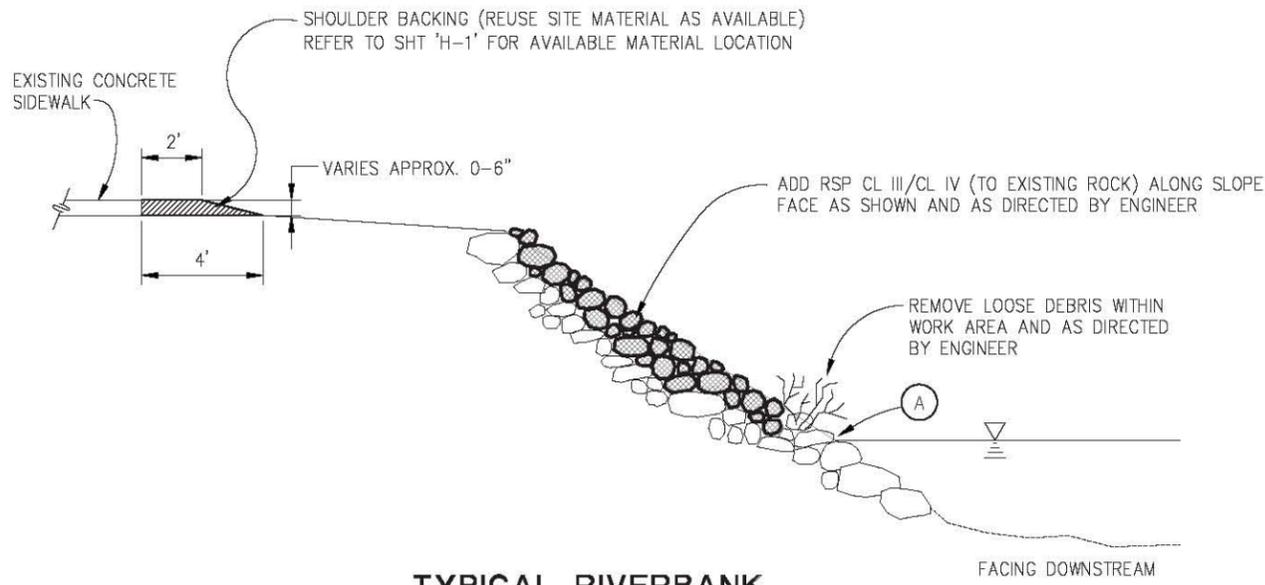
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK & LATROBE RAILROAD**  
**STORM DAMAGE REPAIRS**

SHEET  
**H-2**  
 3 OF 8  
 W.G. No. **99455**

**HENNINGSEN LOTUS PARK**  
**LAYOUT**  
 SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS  
 2  
 1  
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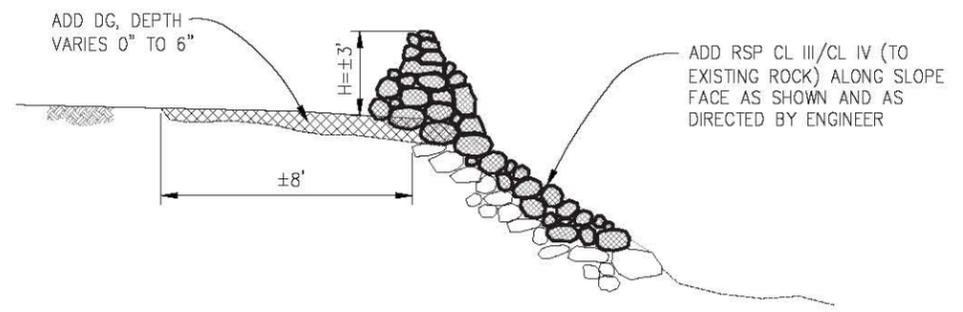


**TYPICAL RIVERBANK RESTORATION**

NTS

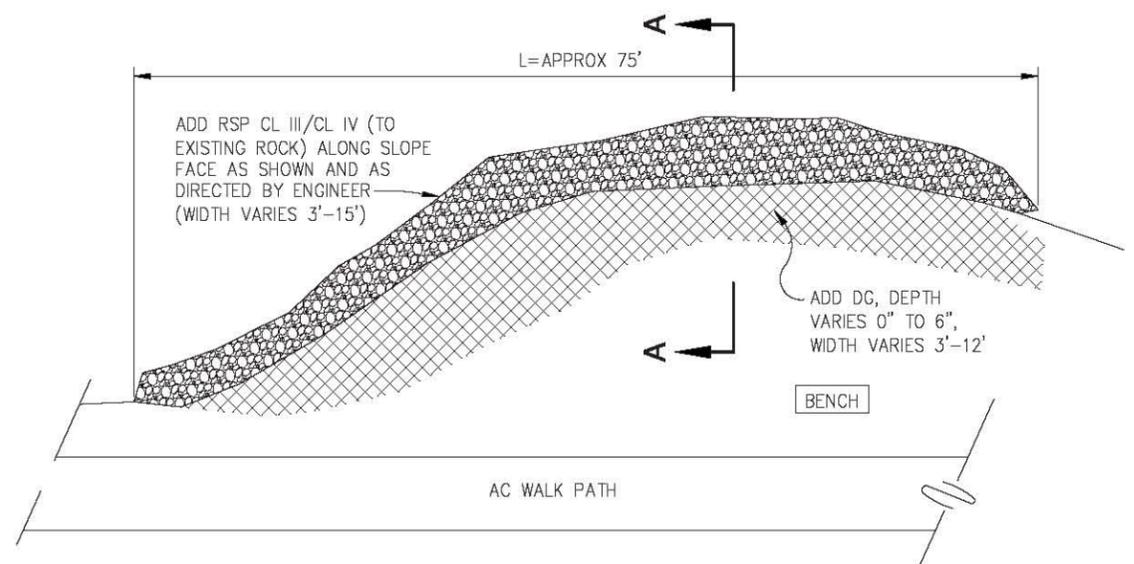
**CONSTRUCTION NOTES:**

- (A) — ALL CONSTRUCTION ACTIVITIES AND WORK AREA MUST REMAIN ABOVE THE PEAK WATER LEVEL AT ALL TIMES



**SECTION A-A**

NTS



**SLOPE REPAIR ALONG BEACH AREA**

NTS

**HENNINGSEN LOTUS PARK  
CONSTRUCTION DETAILS  
SCALE : 1" = 40'**



PREPARED UNDER THE SUPERVISION OF :  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 07/23/19  
 DATE:

DESIGNED: J.B. SGM  
 DRAWN: SGM  
 CHECKED: J.B. DATE: 05/21/19  
 ROAD NUMBER: -



**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK &  
LATROBE RAILROAD  
STORM DAMAGE REPAIRS**

SHEET  
**H-3**  
 4 OF 8  
 W.C. No. 99455

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



**SITE PLAN**  
SCALE: 1"=100'

**CONSTRUCTION NOTES:**

- ① — PLACE BALLAST AT VARIOUS LOCATIONS ALONG RAILROAD AS DIRECTED BY ENGINEER
- ② — WASHOUT REPAIR SITE, SEE SHEETS L-2 THRU L-4
- ③ — 30' WIDE TEMPORARY CONSTRUCTION EASEMENT (TCE) FOR ACCESS TO SITE FROM LATROBE RD

**LATROBE RAILROAD  
SITE PLAN  
SCALE : 1" = 30'**



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 07/23/19

DESIGNED: JEB  
 DRAWN: SGM  
 CHECKED: JEB  
 DATE: 05/30/19  
 ROAD NUMBER: -



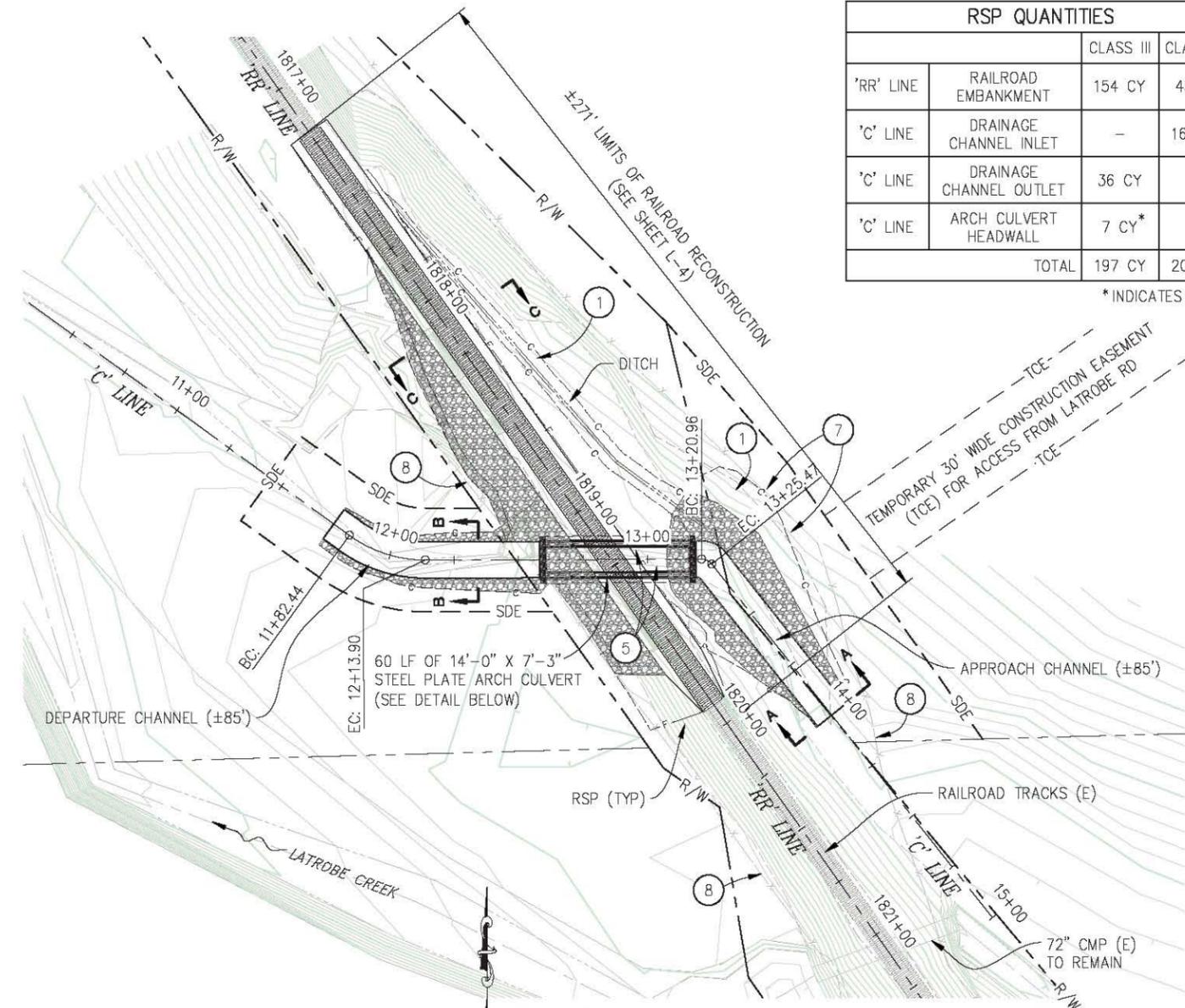
**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK &  
LATROBE RAILWAY  
STORM DAMAGE REPAIRS**

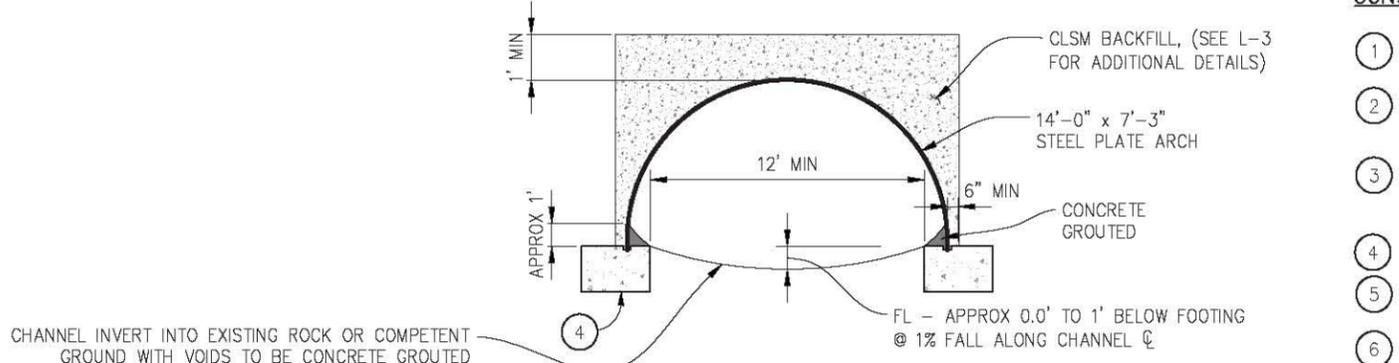
SHEET  
**L-1**  
5 OF 8  
R.O. No. **99454**

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



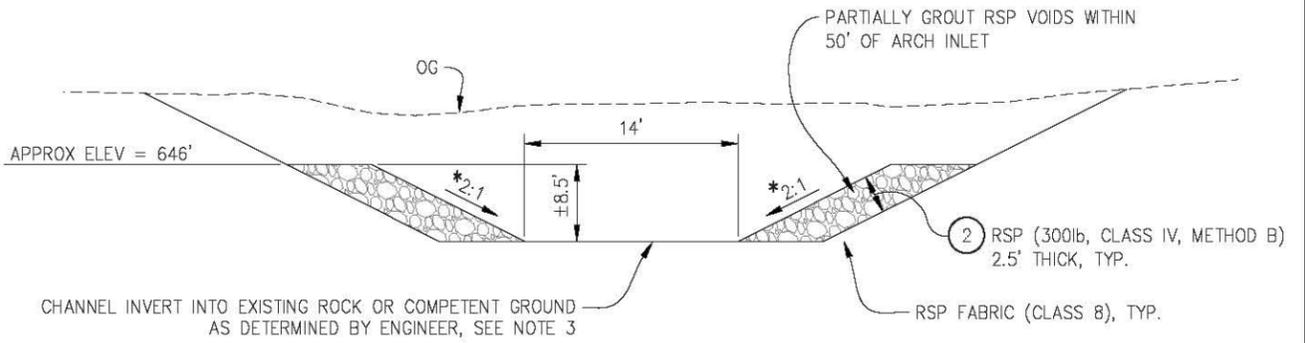
**PLAN**  
SCALE: 1" = 30'



**STEEL PLATE ARCH CULVERT  
TYPICAL SECTION**  
NTS

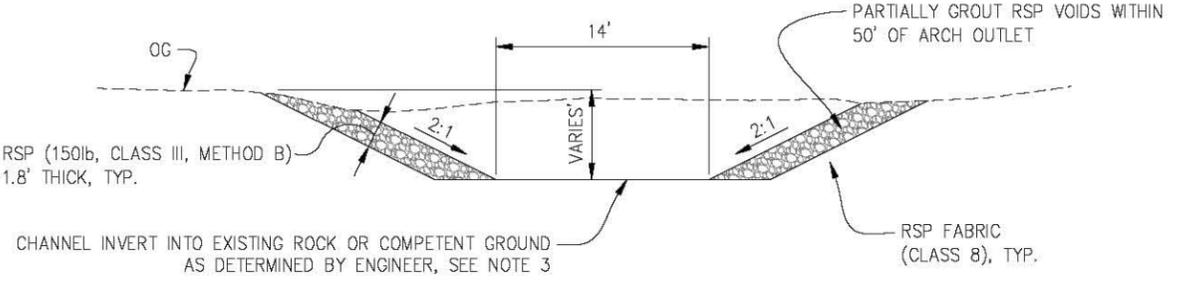
RSP QUANTITIES			
		CLASS III	CLASS IV
'RR' LINE	RAILROAD EMBANKMENT	154 CY	45 CY*
'C' LINE	DRAINAGE CHANNEL INLET	-	162 CY
'C' LINE	DRAINAGE CHANNEL OUTLET	36 CY	-
'C' LINE	ARCH CULVERT HEADWALL	7 CY*	-
TOTAL		197 CY	207 CY

\* INDICATES CONCRETED-RSP

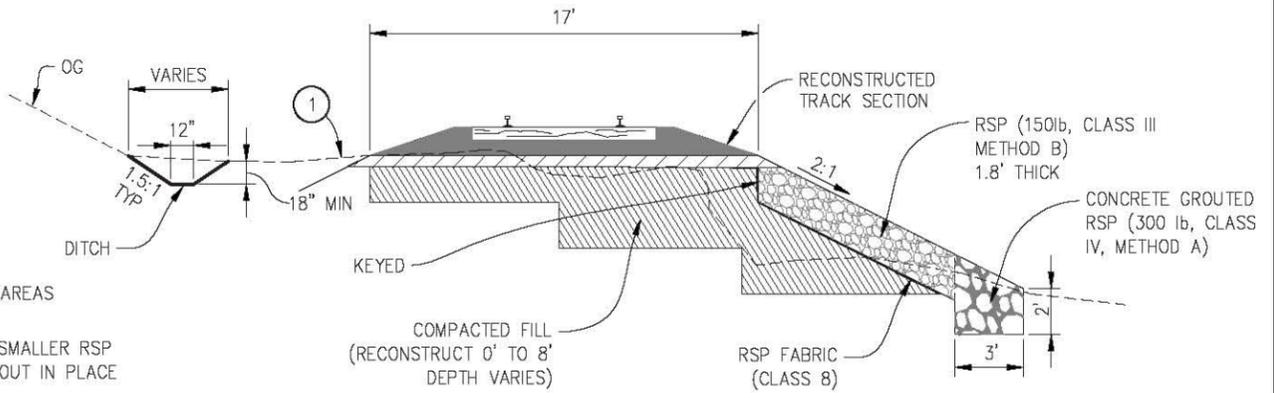


**SECTION A-A**  
NTS

\* ADJUST SIDE SLOPES TO 1.5:1 AS NECESSARY AS DIRECTED BY ENGINEER



**SECTION B-B**  
NTS



**SECTION C-C**  
NTS

**CONSTRUCTION NOTES:**

- 1 - HYDROSEED ALL DISTURBED AREAS
- 2 - INTERLOCK RSP CL IV WITH SMALLER RSP (I.E. CL III) & PARTIALLY GROUT IN PLACE
- 3 - RSP (CL III) TO BE PLACED AS DIRECTED BY ENGINEER ALONG INVERT IN AREAS WHERE SUBGRADE OCCURS IN ERODIBLE MATERIAL
- 4 - STEEL PLATE ARCH CULVERT FOOTING, SEE DETAIL, SHEET L-3
- 5 - REMOVE (E) DOUBLE 36" CMP
- 6 - 60 LF OF 14' X 7'-3" MULTI-PLATE ARCH CULVERT (SEE DETAIL)
- 7 - PRESERVE AND PROTECT TREES WHERE POSSIBLE
- 8 - REMOVE AND REPLACE EXIST BW FENCE AS NECESSARY. NEW BW FENCE LOCATION TO MATCH EXISTING WHERE POSSIBLE, FINAL LOCATION AS DIRECTED BY ENGINEER.

**LATROBE RAILROAD  
LAYOUT  
SCALE : 1" = 30'**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 REGISTERED CIVIL ENGINEER  
 DATE: 07/23/19

DESIGNED: JIB  
 DRAWN: SGM  
 CHECKED: JIB  
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 ROAD NUMBER: -

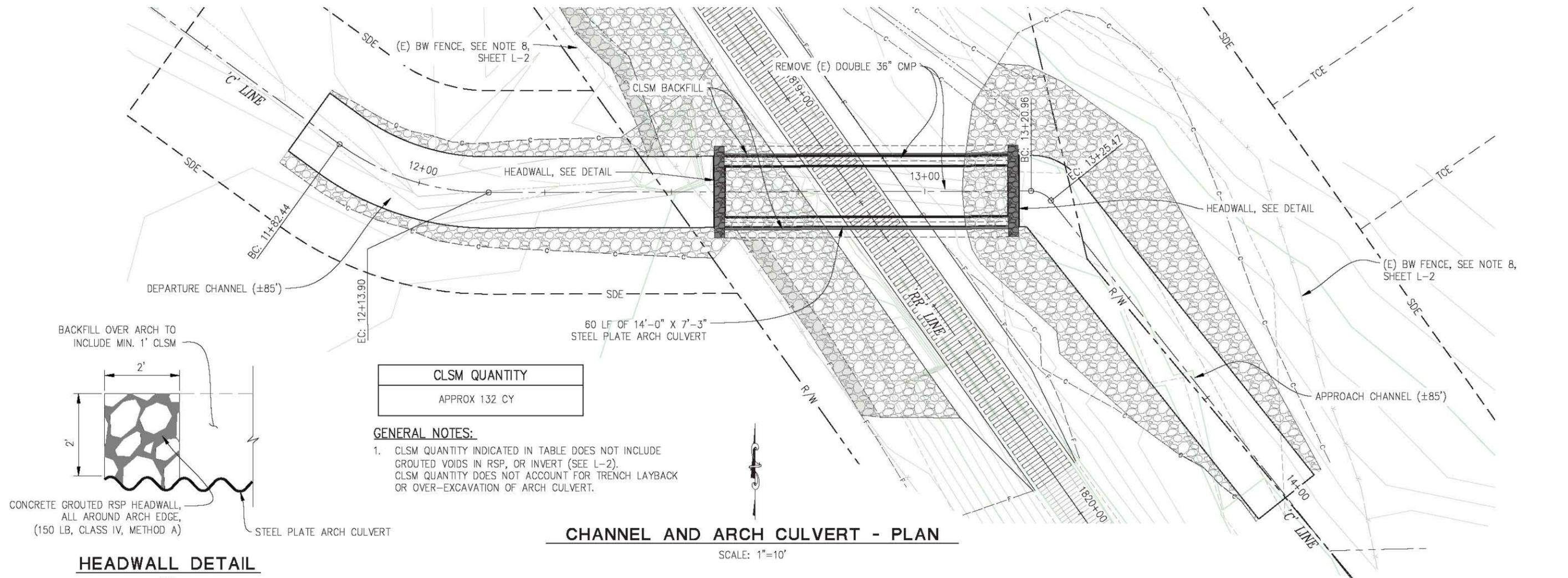


**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK &  
LATROBE RAILROAD  
STORM DAMAGE REPAIRS**

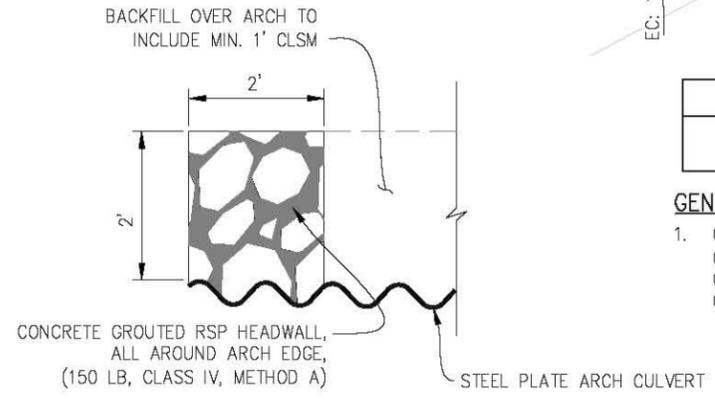
SHEET  
**L-2**  
6 OF 8  
W.C. No. 99454

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



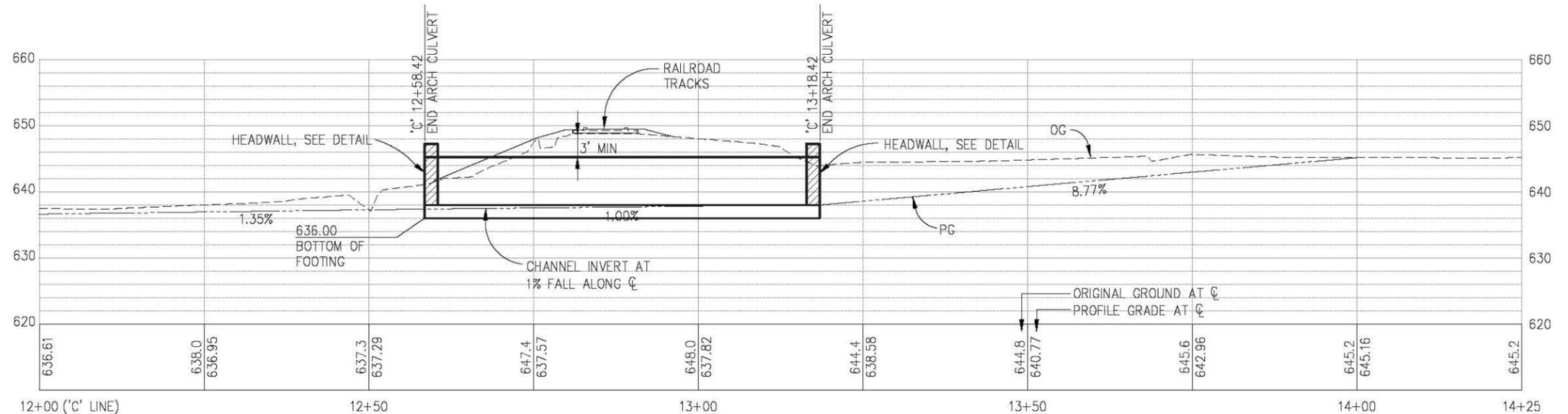
CLSM QUANTITY
APPROX 132 CY

- GENERAL NOTES:**
1. CLSM QUANTITY INDICATED IN TABLE DOES NOT INCLUDE GROUDED VOIDS IN RSP, OR INVERT (SEE L-2). CLSM QUANTITY DOES NOT ACCOUNT FOR TRENCH LAYBACK OR OVER-EXCAVATION OF ARCH CULVERT.



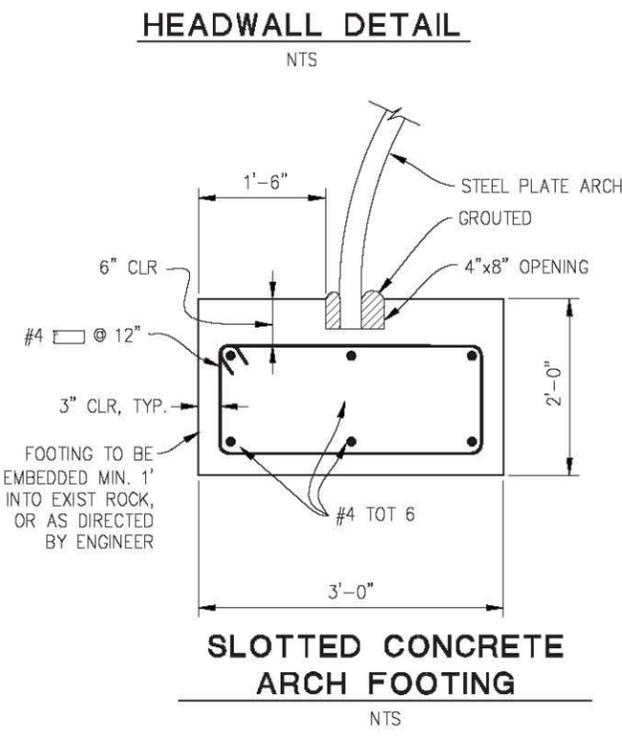
**CHANNEL AND ARCH CULVERT - PLAN**

SCALE: 1"=10'



**CHANNEL AND ARCH CULVERT - PROFILE**

SCALE: 1"=10' H,V



**LATROBE RAILROAD**  
**CHANNEL AND ARCH CULVERT**  
**SCALE: 1" = 20'**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE: 07/23/19

DESIGNED: JIB  
 DRAWN: SGM  
 CHECKED: JIB  
 DATE: 05/31/19  
 ROAD NUMBER:

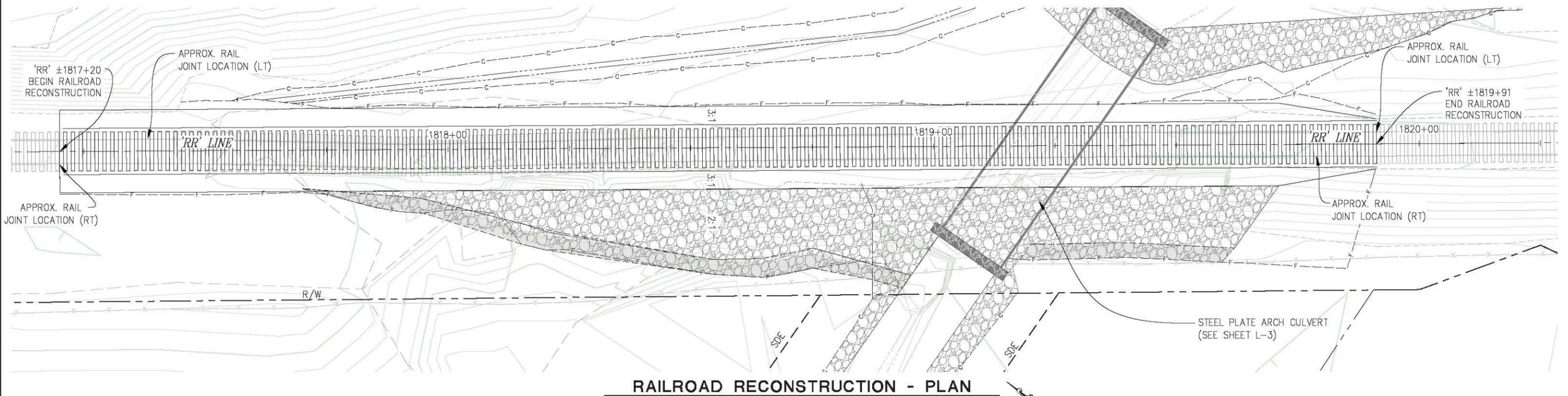


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK &**  
**LATROBE RAILROAD**  
**STORM DAMAGE REPAIRS**

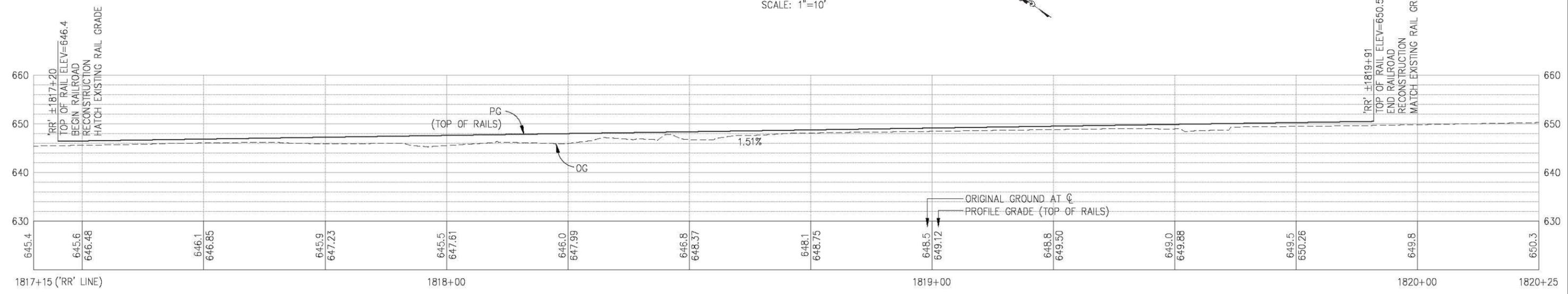
SHEET  
**L-3**  
 7 OF 8  
 W.C. No. 99454

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



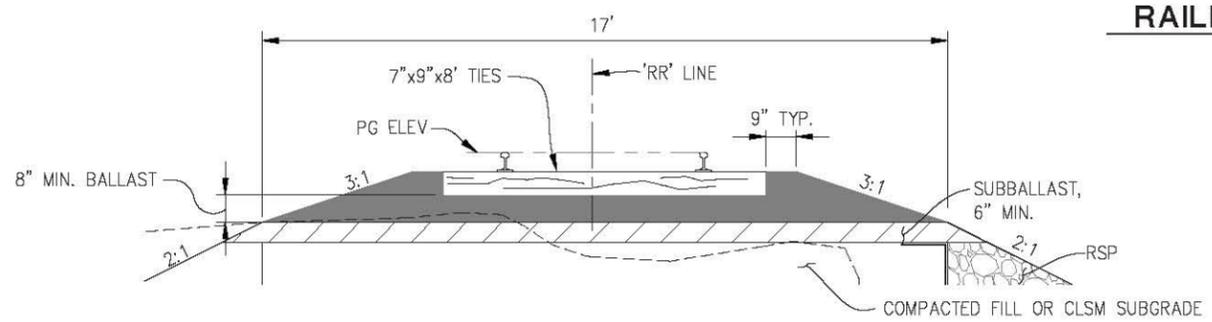
**RAILROAD RECONSTRUCTION - PLAN**

SCALE: 1"=10'



**RAILROAD RECONSTRUCTION - PROFILE**

SCALE: 1"=10' H,V



**RAILROAD - TYPICAL SECTION**

NTS

BALLAST QUANTITY		
LOCATION	QTY	REFERENCE
WASHOUT REPAIR SITE	136 CY	L-4
MISC & ERODED AREAS (AS DIRECTED BY ENGINEER)	40 CY	L-1
<b>TOTAL</b>	<b>176 CY</b>	

**LATROBE RAILROAD  
RAILROAD RECONSTRUCTION  
SCALE : 1" = 20'**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
 REGISTERED CIVIL ENGINEER  
 DATE: **07/23/19**

DESIGNED: JOB SGM  
 DRAWN: SGM  
 CHECKED: DATE: 05/31/19  
 ROAD NUMBER:



**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

**HENNINGSEN LOTUS PARK &  
LATROBE RAILROAD  
STORM DAMAGE REPAIRS**

SHEET  
**L-4**  
 8 OF 8  
 W.C. No. **99454**