BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF COLORADO

DOCKET NO. 10A-409R

IN THE MATTER OF THE CITY OF FOUNTAIN FOR AUTHORITY TO CREATE ALTERNATIVE AT-GRADE, ROADWAY RAILROAD CROSSINGS FOR DUCKWOOD ROAD AND TO CLOSE THE EXISTING MESA ROAD RAILROAD CROSSINGS

STIPULATION AND SETTLEMENT AGREEMENT APPLICANT, UPRR AND CDOT

Applicant City of Fountain ("Fountain"), Intervenor Union Pacific Railroad Company ("Union Pacific" or "UPRR") and Intervenor, Colorado Department of Transportation ("CDOT"), by and through their respective counsel, hereby enter into this Stipulation and Settlement Agreement ("Stipulation") and in consideration of all of the terms and conditions set forth herein, hereby agree and stipulate as follows:

- The application commencing this action was filed with the Colorado Public Utilities Commission by Fountain on May 24, 2010. In the Application Fountain seeks, inter alia, to close the Union Pacific railroad public crossing at Mesa Road in Fountain, Colorado and to open a new public road crossing at Duckwood Road in Fountain, Colorado across the two Union Pacific tracks at that location. The proposed closing of Mesa Road is contingent upon the approval to open the new public road crossing at Duckwood Road.
- On July 13, 2010, Union Pacific filed its *Entry of Appearance* and *Notice of Intervention* objecting to the Application in this docket. On July 13, 2010, the

Burlington Northern Santa Fe Railroad ("BNSF") filed its *Entry of Appearance* and *Notice of Intervention Objecting to the Application* related to the Mesa Road alterations in this docket.

- 3. The Commission Order Deeming Application Complete and Referring to an ALJ was served on August 3, 2010.
- 4. Union Pacific filed an Amended Intervention on August 13, 2010.
- 5. Fountain amended their Application on September 2, 2010.
- 6. Union Pacific filed a Motion for Partial Summary Judgment on the Pleadings for Failure to State a Claim Upon Which Relief Can be Granted on December 3, 2010. This Motion was later granted and had the effect of removing any property claims from this docket.
- On July 5, 2011, CDOT formally filed its *Entry of Appearance* and *Motion to Intervene Out of Time*. Late Intervention was granted by the Commission on July 27, 2011.
- 8. By Order dated September 21, 2011 Administrative Law Judge Keith J. Kirchubel set this matter for hearing on December 7, 2011. The December hearing date was later vacated in order to allow the parties' time to negotiate settlement of certain issues.
- Further, on January 6, 2012, BNSF filed its Motion to Dismiss Application as Preempted by Federal Law or in the Alternative to Refer Matter to Surface Transportation Board for Declaratory Order
- 10. On January 17, 2011, the parties filed a Stipulated Procedural Schedule stipulating, in part, that any further hearing in this matter should occur on June 21, 2012.

11. Fountain, Union Pacific and CDOT are now in Agreement as a partial settlement of this case as follows:

a. That contingent upon approval of the opening of the Duckwood Crossing, the public road crossing of the Union Pacific tracks at Mesa Road (the "UP/Mesa Road Crossing") shall, within 30 days of the opening of the new Duckwood Road railroad crossing, be closed and abolished by Fountain, at Fountain's sole expense, by erecting a Type Three barrier and a drainage swale on the east side of the UP/Mesa Road Crossing and, on the west side of the UP/Mesa Road Crossing, by removing the existing pavement and installing a drainage swale, all as shown on **Exhibit "A"** attached hereto. Union Pacific shall be responsible for removing (at Fountain's expense) all railroad crossing materials, signals and appurtenances located to the west of the Type III Barrier Road Closure east of the Union Pacific/Mesa Road Crossing and west of the BNSF Mesa Road crossing. All materials removed by Union Pacific shall be retained by or disposed of by Union Pacific in its sole discretion, and the reference to "salvage" on the Exhibit shall have no meaning.

b. That the new Duckwood Road railroad crossing shall not be used for any construction activities or other private use prior to the opening of the Duckwood Road crossing to the public. Such opening shall include having all surface work on the crossing completed, all signal work on the crossing completed, the adjoining intersection (US 85 and Duckwood Road) shall be fully completed with all surface and signal improvements installed, including interconnecting the signals at that intersection to the signals at the new Duckwood Road railroad crossing and Duckwood Road shall be open

to the public as a through roadway. If the Duckwood Road crossing is completed with all signal and surface improvements prior to the time of interconnection to the adjoining intersection signals (US 85 and Duckwood Road) and/or prior to the time that Duckwood Road is fully open to the public as a through highway from US 85 to a point east of the new Duckwood Road crossing, then the Duckwood Road railroad crossing shall be barricaded, at Fountain's sole expense, with a Type III barricade on both sides of the Union Pacific track until such time as all improvements are complete, Duckwood Road crossing and ean be opened as a through roadway, the US 85/Duckwood Road intersection is signalized and interconnected to the signals at the Duckwood Road Railroad crossing and such interconnection is fully operational. The current Union Pacific cost estimates for the automatic flashing light signals with gates and surfacing materials for the Duckwood Road Crossing is attached hereto as **Exhibit "B"**.

c. That prior to the opening of the new Duckwood Road railroad crossing, the berm now existing to the south and west of that crossing shall be removed by Fountain, at Fountain's sole cost and expense, in the locations and to the extent shown on **Exhibit** "C".

d. That CDOT, Fountain and Union Pacific hereby agree to the appropriateness of the signal timing calculations attached hereto as **Exhibit "D"** and that the advanced preemption timing is equal to 55 seconds.

e. That the configuration of the new Duckwood Road / Union Pacific railroad crossing and the adjoining intersection of US 85 and Duckwood Road shall be as depicted on the plans filed with the Colorado Public Utilities Commission on October 11, 2011 as modified by the plans filed on November 16, 2011 and by replacement Plan Sheet C-10B (**Exhibit "D**"), all of which are attached hereto and **Exhibit "E"**, including Plan Sheets C-1 through C-26, inclusive (the "Plans"). Any and all costs of the new Duckwood Road crossing and any changes to the adjoining intersection of US 85 and Duckwood Road (including all signal systems) reflected on the Plans shall be borne solely by Fountain.

f. That Fountain and Union Pacific , and also, CDOT and Union Pacific hereby agree to enter into seperate interconnection agreements within 90 days after approval of this stipulation and after final approval of the Duckwood Road crossing by the PUC. The purpose of the interconnection agreements shall be to cover the interconnection of the signal system at the new Duckwood Road railroad crossing and the traffic signal system to be placed at the intersection of US 85 and Duckwood Road. The Fountain and Union Pacific agreement will be in effect until such time as CDOT approves and accepts the signals at Duckwood and US 85, including maintenance of such signals. The CDOT and Union Pacific agreement shall be entered into at the same time as the Fountain interconnection agreement, however, the CDOT agreement will remain in place after the Fountain agreement terminates.

g. That Fountain and CDOT agree that the hardware and software specifications described on the attached **Exhibit "F"** will be used as and for signaling and operations equipment.

h. Upon completion of the installation and interconnection of all the hardware and software as contained in **Exhibits "E" and "F"** attached hereto, CDOT and Union

Pacific will perform their own inspection and testing to confirm compliance with Exhibits "E" and "F". Upon acceptance by Union Pacific and confirmation of compliance by CDOT, CDOT will accept future maintenance responsibilities for the US 85 Duckwood Road intersection signals and interconnects as set forth in the attached Exhibits "E" and "F", and subject to the interconnection agreement as described in subparagraph 11 F above.

i. Fountain agrees and understands that it must apply for and be granted a CDOT Access Permit prior to connecting the new Duckwood Road to US 85. Fountain further agrees and understands that prior to connecting the new Duckwood Road to US 85 it must also receive a CDOT "Notice to Proceed" and agree to and follow all terms and conditions contained therein.

j. That Fountain and Union Pacific will enter into a Construction and Maintenance agreement covering the new Duckwood Road railroad crossing within 90 days following final approval of the Duckwood Road crossing by the PUC. Additionally, Fountain or its Contractor will execute a Contractor's Right of Entry agreement with Union Pacific prior to beginning any construction activity relative to the berm removal and will also submit all berm removal plans to Union Pacific and receive approval of plans from Union Pacific prior to beginning any work. All costs associated with berm removal, including, but not limited to, any Contractor's Right of Entry fees, fees for temporary easements, flagging and insurance requirements, shall all be borne solely by Fountain. The easements to be acquired shall be in accordance with the legal descriptions filed by Fountain in this docket as Applicant Exhibit DKG-27 and Applicant Exhibit DKG-28 on October 17, 2011, unless amended by written agreement between Fountain and Union Pacific.

k. This Stipulation and Agreement only covers the physical attributes of the proposed closure of the UPRR/Mesa Road crossing and the proposed opening of the UPRR/Duckwood Road crossing. This Stipulation and Agreement does not cover any other issues outside of the immediate area of the existing UPRR/Mesa Road crossing and the proposed UPRR/Duckwood Road crossing.

1.. The parties to this Stipulation and Agreement acknowledge that BNSF has raised objections to the Duckwood crossing which remain unresolved. The parties request that the Commission approve this Stipulation and Agreement to govern the issues addressed herein in the event that a crossing is approved at Duckwood as requested by Fountain.

12. As a result of executing this Stipulation and Agreement, and subject to the conditions set forth herein, Union Pacific hereby withdraws any objection that it had pertaining to Fountain's requested closure of the UP/Mesa Road Crossing and also withdraws any objections it had to the new proposed UPRR railroad crossing at Duckwood Road. By so doing, UPRR does not take a position as to the BNSF Motion filed on January 6, 2012. UPRR's Stipulation herein is expressly contingent on the BNSF's objections being fully resolved in a manner that is not in any way objectionable to Union Pacific or that does not in any way require Union Pacific to configure its wayside signal system in a way to which Union Pacific objects. By entering into this Stipulation and Agreement, UPRR expresses no opinion on whether the issues raised by BNSF, in regard to wayside signals and train staging, are capable of resolution.

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Furthermore, any proposed wayside signal relocation on the UPRR trackage must be fully approved by UPRR, with no costs of engineering or relocation of the wayside signals being borne by UPRR.

- 13. If and when all BNSF issues are resolved in such a way that would allow the Duckwood crossing to open, Fountain, Union Pacific and CDOT hereby request that the Commission enter an Order approving the closure of the UP/Mesa Road Crossing and the opening of the Duckwood crossing as set forth in the Application and in this Stipulation and Settlement Agreement, with closure of the UP/Mesa Road crossing contingent upon the opening of the Duckwood crossing.
- 14. This Stipulation may be enforced only by the parties hereto or their successors. The parties agree to cooperate and otherwise perform this Stipulation in good faith, and shall execute such additional documents or instruments as may be reasonably necessary or required in order to properly carry out and effectuate the terms, provisions and intent of this Stipulation.
- 15. This Stipulation constitutes a settlement of disputed and compromised claims regarding the proposed closure and is made for settlement purposes only. Each party also agrees that except as expressly provided in this Stipulation, it will take no action in any administrative or judicial proceeding which would have the effect, directly or indirectly of contravening the provisions of this Stipulation, excepting that nothing in this Stipulation shall prevent Union Pacific from appropriately addressing Union Pacific's issues in connection with the BNSF request that signals be moved on the Union Pacific line, even if such position makes further agreement between all parties

to this matter impossible; thus having the effect of nullifying Union Pacific's agreements in this Stipulation and any approvals by the Commission. Furthermore, except as otherwise provided herein, nothing in this Stipulation shall constitute a waiver by any party with respect to any matter not specifically addressed in this Stipulation.

- 16. This Stipulation shall not become effective until the Commission issues an Order approving the Stipulation, which Order does not contain any modification of the terms and conditions of this Stipulation that is unacceptable to any of the parties to the Stipulation. In the event the Commission modifies this Stipulation in a manner unacceptable to any party hereto, that party may withdraw from the Stipulation and shall so notify the Commission and the other parties to the Stipulation in writing within 10 days of the date of the final Commission Order. In the event a party exercises its right to withdraw from the Stipulation shall be null and void and have no effect.
- 17. In the event this Stipulation becomes null and void, or in the event the Commission does not approve this Stipulation, this Stipulation as well as the negotiations undertaken in conjunction with this Stipulation shall not be admissible into evidence in any subsequent proceeding.
- 18. The parties state that they have reached this Stipulation by means of a negotiated process that is in the public interest, and that the results reflected in this Stipulation are just, reasonable and in the public interest.

- 19. This Stipulation may be exercised in separate counterparts, including facsimile. The counterparts taken together shall constitute the Stipulation. The parties represent that the signatories to the Stipulation shall have full authority to bind their respective parties to the terms of the Stipulation.
- 20. The Stipulation shall be governed by and construed in accordance with the laws of the State of Colorado.

Respectfully submitted this 16 day of Mart 2012. APPLICANT: Lisa Tormoon Hickey, Esq., #15046 Alpern Myers Stuart LLC 14 North Sierra Madre, Suite A Colorado Springs, CO 80903 lisahickey@coloradolawyers.net 719.471-7955 x 124 719.630-1794 (FAX) Attorney for Applicant City of Fountain

CITY:

The City of Fountain, a municipal corporation and Colorado home rule city,

By:

Scott Trainor, City Manager

UNION PACIFIC RAILROAD COMPANY:

Kathleen M. Snead, Esq., #9969

Kathleen M. Snead, Esq., #9969 1331 Seventeenth St., Suite 406 Denver, CO 80202 303.405.5407 303.405.5413 (FAX) Attorney for Intervenor Union Pacific Railroad Company

COLORADO DEPARTMENT OF TRANSPORTATION:

B<u>y:</u> and con

Sasan A. Delshad, PE CDOT Region II Traffic Program Engineer

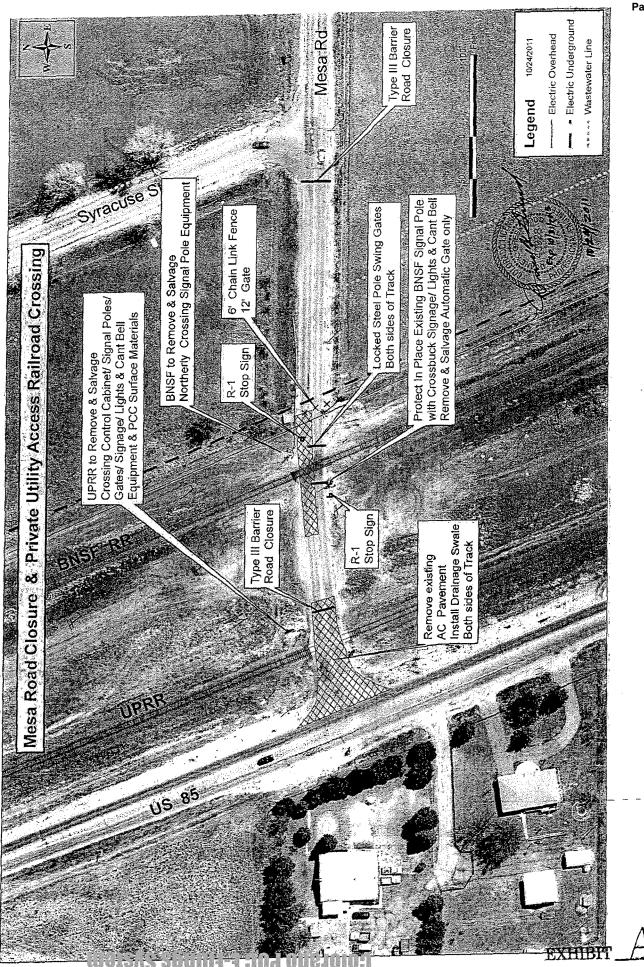
Approved as to form:

OFFICE OF ATTORNEY GENERAL:

aron

Gregg Carson #25460 Office of the Attorney General Attorney for Intervenor Colorado Department of Transportation 1525 Sherman Street, 7th Floor Denver, CO 80203 (303) 866-5129

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DATE: 2011-11-04

86.18, COLSPRINGS

ESTIMATE OF HATERIAL AND FORCE ACCOUNT WORK BY THE UNION PACIFIC RAILROAD

MP, SUBDIV:

THIS ESTIMATE GOOD FOR 6 MONTHS EXPIRATION DATE IS 12012-05-04

DESCRIPTION OF NORKI INSTALL ADIOMATIC FLASHING LIGHT CROSSING SIGNALS WITH GATES AT FOUNTAIN, CO. DUCKNOOD RD, N.P. 86.18 ON THE COLORADO SPRINGS SUR. DOT 42531212 NORK TO BE PERFORMED BY RAILRORD WITH EXPENSE AS BELOW SIGNAL - CITY OF FOUSTAIN - 1004 ESTIMATED USING FEDERAL ADDITIVES WITH INDIRECT AND

OVERHEAD CONSTRUCTION COST'S - 167.765 PID: 71799 ANO: 06916

SERVICS VEIT: 14	CITY	CITY, POUNTAIR		:	STATE: CO		•
DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPER	TOTAL
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SNOTNEERING NORX							
ENGIMEERING		•	7117		7117		7117
AROR ADDITIVE 167.761			19936		12936		13936
STG-RHY XNG			1821		4821		4821
TOTAL ENGINEERING			31874		31\$74		31874
STONAL WORK							
SILL PREP			900		980		. 900
CONTRACT				11233	31233		11233
LABOR ADDITIVE 167.764		1:	12362		112362	•	112362
NATL STORE EXPENSE			1	32			32
PERSONAL EXPENSES				34150	36150		26350
POLELINE REKOVAL					5000		5000
ROCX/GRAVEL/VILL				2500	2500		2500
а торуг		6	6078	112331	178409		178409
RANSP/IB/OB/RCIM CONTR				25108	15108	•	15108
HUTROSHENTAL - PERMITS				1	1		1
TOTAL SIGNAL					361675		361675
		473	1340	1443-17	301010		341673
LABOR/WATERIAL EXPENSE							
RECOLLECTIBLE/OPER EXPENSE		211	314]				
	515				193549	-	*****
ESTIMATED PROJECT COST							393549

THE APOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLOCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, JPER WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CORRENT EFFECTIVE RATE.



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Colorado PUC E-Filings System HIL CON LAB SATI PERS POLS RCCX SION TRAS TH71 π LA 88

FOR	N 30-1			PAGE	10	MORE
WORK ORDER AUTHORIZATION-DI	ETAIL OF	estimated	expenditures			
				PROJ NO:	717	99
				A.H.O. 80:	069	16
				W.O. NO1		
RAILROAD: UPRR CO.				B.I. NO: 10	BN1	0
LOCATION: FOUNTAIN, CO, FOUNTAIN MESA RD				STATE: CO		
DEPARTMENT: ENGINEERING SERVICES	SERVICE	UNIT: 14		VAL SEC: 05	024	

INSTALL AUTOMATIC FLASHING LIGHT CROSSING SIGNALS WITH GATES AT FOURTAIN, CO. DUCKWOOD RD. M.P. 86.18 ON THE COLORADO SPRINGS SUB. DOT #2531219 WORX TO BE FERFORMED BY RAILROAD WITH EXPENSE AS BELOW: SIGNAL - CITY OF FOURTAIN - 1004

and and the second second

EXHIBIT

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 FORM 30-1
 PAGE 02 MORE

 NDRX ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITORES
 PROJ ND: 71799

 A.M.O. NO: 06916
 W.O. NO: 06916

 W.O. NO:
 B.I. NO: 10ENIO

 LCCATION: FOUNTAIN MESA RD
 STATE: CO

 DEFAALMENT: ENGINEERING SERVICES
 VAL BEC: 0502Y

SCOPE OF KORK

Project Nut-Ber	VAL Sec	STATE	M.P. From	N.P. TO	SEGMENT	JOINT FACILITY
71799	0502V	00	85.73	85,73	4716	



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EXHIBIT B

 FORM 30-1
 PAGE 04 MORE

 NORX ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES
 PROJ NO: 71799

 A.H.O. NO: 06916
 N.O. NO:

 RAILROAD: OPER CO.
 B.I. NO: 10EN19

 LCCAFION: FOUNTAIN MESA RD
 STATE: CO

 DEPARIMENT: ENGINEERING SERVICES
 VAL SEC: 0502V

STOCK PATERIAL PLAN

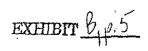
TTEM TTEM	Unit		DIRECT
NUMBER DESCRIPTION	COST	QTY UN	мать \$
02040660 BATTERY, GNB, 50027, 680 AH.	389,32	13 EA	4671
09010800 CABLE SPLICING KLT. N-2	32.03	5 EA	160
09011240 CABLE TIE, NYLON 1 1/8" MAX. DIA.	0.02	200 EA	4
09011980 CABLE TIE, NYLON 3 1/2" MAX. DIA.	0,18	20 EA	4
09014950 CIRCUIT BRKR, 120/340V 20A 2 FOLE	14.64	1 EA	15
09015270 CIRCUIT BREAKER, 1209/2409 20% AC	\$.46	1 FA	6
09054360 RELAY, GEN. PURFOSE 120V. TAB 856	5,24	1 EA	5
09057650 SOCKET, P-8 278122 TAB 836A & 856	2.17	1 EA	2
09065700 TAPE, ELECTRICAL PLASTIC	3.75	2 RL	8
09066380 TERMINAL, SPADE, 10-12 WIRE, #8 STUD	0.17	10 EA	2
03137100 TERM.LUG 3/15 CABLE-1/4 FOST 2412	0,55	30 PA	17
09215100 33466 TERMINAL, RING TONGUE AMP	0,19	4-1 EA	8
09224750 216-107 TERMINAL, FERRULE, FOR #10	0.05	20 EA	1
09224300 216-104 TERNINAL, FERRULE, H	0.02	50 EX	1
09264350 TERMINAL, 416-14 48 SPADE	0.07	35 EA	2
09261420 321524-1 TERMINAL, TEST 26-22 A	1,79	4 EA	7
09261570 321527-1 TERMINAL, TEST	1,72	15 EA	26
09401140 ADAPTER, 4 INCH CARLON PLASTIC	2.95	2 ea	6
09409820 BUSHINU, 4" PLASTIC, INSULATING	0.82	2 EA	2
02424920 CONDUIT, 4', PVC, TYPE 40	1,90	210 LF	199
09467930 LOCKNUT, 4 INCH, GALVANIZED	5.78	2 EA	12
09844170 GROUND ROD, 5/8 INCH X 8 FRET	8,95	15 EA	134
03846750 GRHD. ROD CONN. 4WAY ONESHOT.	5.20	15 EA	78
03304000 MIRE, #2 ANG 3 COND 360 FT. SPOOL	8,87	300 LF	1761
09008640 HIRE, #6 ANG. 1 COND. COPPER, SOLID	0.48	375 LF	180
09912200 WIRE #6 AWG 2 CND 500'ROLL SHIELD	2.05	500 LP	1025
09912350 HIRE #6 AW3 2 COND 1000 LF. SHIELD	1.93	5000 GF	9950
09913260 WIRE, #6, 5 COND 500'ROLL SHIELDED	4.00	1000 LF	4000
99915610 WIRE #6 ANG 1 COND COPPER, STRAN	0.77	210 LP	162
09930550 MIRE #10 ANG 1 COUD COPPER, STRAN		1050 LF	252
09912310 WIRE #10 AWG 1 COND COPPER, THIST	9,55	90 LF	50
09945100 WLRE HI4, 7 CND 500' ROLL SHIELDB	1.63		1630
19960090 WIRE #16 AND 1 COND COPPER, STRAN	0,10	850 LF	85
02276180 WIRE, #22, TH. PR. RELDEN #8761	0.13	20 LF	3
13547576 SHEET METAL SCREW, \$10 X 1 INCH	3.50	1 BX	4
13552450 SHEET METAL SCREW, H12 X 3/4*	2.10	2 BX	4
13553150 SHEET BETAL SCREW #12 X 1*	3.05	2 SX	6
· · · · · · · · · · · · · · · · · · ·	15.10	19 EA	287
20033210 CARTON, 39 1/8-L X 23 1/4-51 X 17	6.23	1 EA	6
23933230 CARTON, 47 3/8 % X 39 1/2 % X 187	12,11	l ea	12

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FORM 30-1	PAGE 05 MORE
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	PROJ NO: 71799
·	A. N. O. XO: 06916
	W.C. NO:
RAILROAD: UPRR CO.	B.I. NO: 10EN10
LCCATION, FOUNTAIN, CO, FOUNTAIN MESA RD	STATE: CO
DEPARTMENT: ENGINEERING SERVICES	VAL SEC: 0502V
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29041980 PALLET, 48 % 40 INCH 2/WAY	9.89	2 Eł	20
33013860 OAXUM, TREATED PLUMBER SPUN	5.45	5 L9	32
350-10020 PLASTER OF PARIS, HDAP 10308	3.01	2 BX	្ទ
39300710 STGN, -2 TEACKS. MP STD PAGE 40.		4 EA	73
39140220 STON, HIGHWAY CROSSINJ, STANDARD		2 EA	100
52001370 SURDE PROTECTOR SP20.28 TAB 585		2 BA	143
52003630 FOWER CABLE, CABIN TO GENERATOR		1 EA	105
52005690 BOND MIRE, 7 STRANDS 500 LF. ROLL		200 LP	172
52005700 EOND WIRE,7 STRANDS 100 LF. ROLL	0.87	700 LF	609
52016830 WIRE DUCT, 2X3	\$,68	8 EA	69
52616940 WIRE DUCT, 3X3	10,23	7 EA	72
52017510 WIRE DUCT COVER 2*X6:	1.89	. B EA	15
52017620 HIRE DUCT COVER 1*X6'	2,78	6 EX	17
52019530 ENCLOSURE, SHUNT, FOLE MOUNTED. 24X2	181,81	6 BV	1091
52019560 EQUALIZER, H.D. TAB 583	9.31	17 PA	158
52021550 FOUNDATION, 4', STBEL, FOR FLARR/OAT	328.65	4' EA	1315
52025270 HOUSE, 6X6, W/TIB, W/CLIMATE CONT		1 EA	7997
52027150 CLIP BOARD - FOR SIGNAL PRINTS	8.02	1 52	8
52027430 STEP BOX	16,32	1 FA	16
52028420 LIGHTNING ARRESTOR, CLR-COMM TAB 3	7.00	40 EA	280
52029780 LIGHTNING ARR, HD TAE 582 W/O BASE	10.03	12 FA	120
52030010 LIGHTNING PRRESTOR CONN.STRIP	6,58	4 EX	26
52019210 RECTIFIER, 20EC, 127, TAB575	279.03	1 EA	279
52039390 RECTIFIER, 408C, 12V. TAB577	384.83	1 EA	385
52042650 POST, MOUNTING, FOR SHUNT HODSING	19.50	12 EA	234
52068650 TERMINAL, 46 - 5 WIRE - RING TYPE	0,16	55 EA	3
52070010 TERMINAL, #12-10 WIRE, HING TONGUE	0.22	450 EA	99
52071600 TERMINAL, #20-16 WIRE, RING TONGUE	0,09	150 EA	14
57072280 TERMINAL BLOCK, SIGNAL 2 FOST BAK	4.45	52 EA	231
52072740 TERMINE BLOCK, SIGNAL 12 FOST 6 UN	15.86	1 EA	16
52072960 TERMINAL BLOCK, SIGNAL 12 FOST	15.35	12 EA	184
52074570 TEST LINK, 1" CENTER TO CENTER	1.53	22 EA	34
52974580 TEST LINK, 2-3/8" CENTER TO CENTE	1.89	1 EA	2
52079550 WIRE TAG, PLASTIC - WITTE	0.14	100 EA	14
\$2079560 MARKING PEN(FOR WHITE TAG)	1.95	1 EA	2
52108120 LED FL/GATE ASSY 2 WAY LIGHTS	6703.54		6814
52109370 ONTE ARM, ADJ. 16-321	428.26		1713
52122140 HIGH WIND BRACKET 5"OR 4"	65,70	4 EA	263
52136380 SHEAR BOLT, 74052H-1, NEG	5.48	4 EA	22
52116480 SHEAR PIN, 74082W-2, 800	4.73	4 EV	19
52200300 EVENT ANALYZER RECORDER (SFAR111)	1931.43		1931
	14863.07		863
52214260 DUX4Y LOAD, 4000 PT. TAB 644	38,61	2 EA	77
52231000 COUPLER, BI, DIR. 62664- 86112 TAB627	852.63		.705
52258380 NBS. TNB 640, 62775-8621	491.25		948
52263600 SUNGE ARRESTOR METER LCOP.	30.87	1 EA	31



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WORK ORDER AUTHORIZATIO	N-DETAIL OF	estimated	BX9ENDITURES	
				PROJ 80: 71799
				A.W.O. NO: 06916
				W.O. 10:
RAILRORD: UPRE CO.				B.I. NQ: 10EM10
Location: fountain, co, fountain mesa RD				STATE: CO
DEPARIMENT: ENGINEERING SERVICES				VAG SEC: 0502V
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·				
52263630 SURGE PANEL - TAB 619	122.55	4 E.A.	490	•
52264040 SURGE PANEL - TAB 618	183.54	1 27	184	•
52267200 TRANSCEIVER MODULE, FOR GCP 4000	2771.75	6 EA	16631	
52276150 SS XING CONTROLLER MODULE FOR GCP	1565.14	2 EA	3130	
52745830 RELAY, TAB 884, NEUTRAL, A62-277	299,20	j ea	898	
52773800 RELAY BRACKET, HOLDS 2 B1 RELAYS.	\$1,98	2 EA	164	
52775370 RELAY PLUMOARD, GRS B1, TAB 800	30.67	1 FA	92	
52777970 FLAG TERMINAL, FOR GRS, 14-10			58	
52778110 PLAG TERMINAL, FOR GRS, 20-16	1,58	45 BA	71	
52779289 RELAY TEST TERH, CRS B1	6.42		19	
53331490 EXTRACTOR FOR "A"TERMINALS P3-308	9.13	1 54	9	
53311510 TEST NUT WRENCH, GRS #P3-320				
51448010 INSULATING CAP & SHIELD ASSY.			9	
53903460 EPD 120/240TDFL SURDE PROTECTOR			276	
53954500 180429-000 ROOTLED KIT	50.58		910	

TOTAL

112,334

26 EXHIBIT

AREMA UNIT STATEMENT OF RAILROAD HIGHWAY GRADE CROSSING SIGNALS ESTIMATED MAINTENANCE COSTS

FOR	PID	#71799		
BUILDING AMERICA	BY TH	B UNION PACIE	IC RAILROA	D
STREET	DUCK	WOOD RD.		
TOWN	FOUN	TAIN, CO.		
MILEPOST	86.18			
SUBDIVISION	COLO.	RADO SPRINGS	-	
AAR/DOT NO,	253121	W		
WORK ORDER#	6918		-	
DESCRIPTION		UNIT VALUE	QUANTITY	UNITS
NON-CODED TRK. CIRCUIT, (Standalour AFTAC or Ridg 10))	2	Ø	0
SUPERIMPOSED CIRCUIT(APTAG) / DETECTION LO	oop	2	0	0
HIGHWAY GRADE CROSSING SIGNAL (ONE PAIR OF FLASHING LIGHTS)		2	4	8
ADDITIONAL PAIR OF LIGHTS		1	4	4
GATE MECHANISM, AUTOMATIC WITH ARM UP TO 26 FT		8	4	32
GATE MECHANISM, AUTOMATIC WITH ARM OVER 26 FT		10	0	0
GCP/HXP (Constant warning device, pie track dreatt)		15	4	60
EXIT GATE MANAGEMENT SYSTEM RACK*		10	0	0
MOVEMENT DETECTOR (PMD)		б	Ð	0
MOVEMENT DETECTOR (STANDBY UNIT)	r.	3	0	0
RADIO DATA LINK, PER UNIT		1	0	0
PREEMPTION CIRCUIT		2	0	0
DATA RECORDER		1	0	0
REMOTE MONITORING DEVICE*		2	l	. 2
BONDED RAIL JOINTS (par mille, each rell, single bonded)		1	0	0
BATTERY AND CHARGER (per su)		1	2	2
TOTAL UNIT COUNT				108
PAVEMENT RESTORATION COSTS				(Actual)

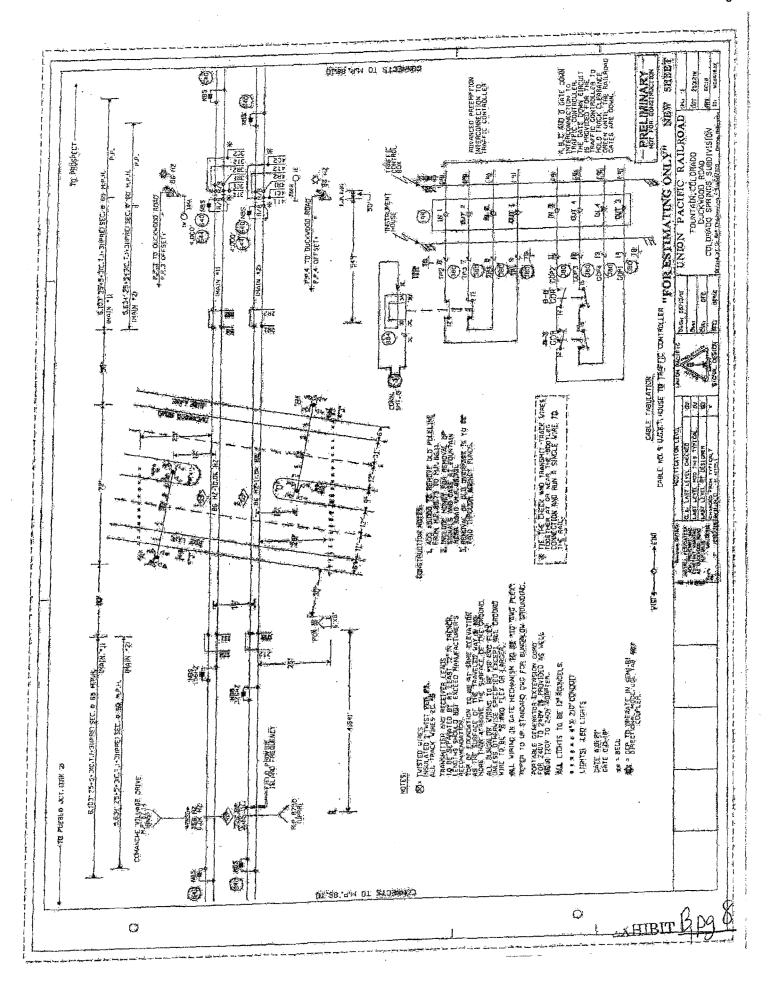
Annual Maintenance Cost at \$170/Unit

*UP supplied Unit Value

November 4, 2011



\$18,360



DATE: 2011-12-01

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK BY THE UNION PACIFIC RAILROAD

THIS ESTIMATE GOOD FOR 6 MONTHS EXPIRATION DATE IS :2012-05-31

DESCRIPTION OF WORK: 2011 RECOLLECTIBLE PROGRAM COLORADO SPRINGS SUBDIVISION MP 86.18 DUCKWOOD ROAD DOT 253-121W RELOCATE CROSSING FROM MP 85.73 TO MP 86.18 PROJECT TO BE FUNDED 100% BY THE CITY OF FOUNTAIN COLORADO

PID: 717 SERVICE UNIT: 14					BDIV: STATE: CO	85.73,	Colsprings
DESCRIPTION	QTY			MATERIAL	RECOLL	UPR	r total
	*** **	•·····		** *** *** *** *** ***			
ENGINEERING WORK							
ENGINEERING			10000		10000		10000
LABOR ADDITIVE 204%			20400		20400		20400
TOTAL ENGINEERING			30400		30400		30400
SIGNAL WORK							•
LABOR ADDITIVE 204%			465		465		465
SALES TAX				2			2
SIGNAL			228	59	287		287
TOTAL SIGNAL		-	693	61	754		754
TRACK & SURFACE WORK	<						
BACKHOE DUMP TRUCK					10000		10000
BALAST	4.00	CI.	1623	2979			4602
BILL PREP				900	900		900
ENVIRONMENTAL - PERMITS				10	10		10
FOREIGN FREIGHT				838	838		838
HOME LINE PREIGHT			~	900	900 21402 606 7213		900
LABOR ADDITIVE 2048			21402		21402		21402
MATL STORE EXPENSE				606	606		606
OTM			1179	6034	7213		7213
RDXING	176.00 1	F	2957	38721	41678		41,678
SALES TAX				2728	2228		2228
SWTIE	130,00 E	A		1757			12294
TRACK-RETIRE			. 587		587		587
TRK-SURF, LIN			4524		4524		4524
WELD				254	254		254
XTIE	E	A,	857		857		857
TOTAL TRACK & SURPACE		3	37666	71227	108893		108893
	_						
LABOR/MATERIAL EXPENSI RECOLLECTIBLE/UPRR EXP		ť	10707				
					140047	0	*****
ESTIMATED PROJECT COST					•		140047
EXISTING REUSEABLE MAT					0		
SALVAGE NONUSEABLE MAT	ERIAL CRE	DIT			0		•

RECOLLECTIBLE LESS CREDITS

THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE. П

EXHIBIT

FORM 30-1 WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 01 MORE

PROJ NO: 71798 A.W.O. NO: 06914 W.O. NO: B.I. NO: 10ENI0 STATE: CO VAL SEC: 0502V

RAILROAD: UPRR CO. LOCATION: FOUNTAIN, CO, FOUNTAIN MESA RD DEPARTMENT: ENGINEERING SERVICES

SERVICE UNIT: 14

2011 RECOLLECTIBLE PROGRAM

COLORADO SPRINGS SUBDIVISION

MP 86.18 DUCKWOOD ROAD DOT 253-121W

RELOCATE CROSSING FROM MP 85.73 TO MP 86.18

PROJECT TO BE FUNDED 100% BY THE CITY OF FOUNTAIN COLORADO

FEDERAL LABOR RATE OF 204,598

EXHIBIT B, pg 10

FORN 30-1 WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES	PAGE 02 MORE
WORK OKDER AUTHORIZATION-DETAIL OF ESTIMATED EXPERIIORES	PROJ NO: 71798 A.W.O. NO: 06914 W.O. NO:
RAILROAD: UPRR CO. LOCATION: FOUNTAIN,CO,FOUNTAIN MESA RD DEPARTMENT: ENGINEERING SERVICES	B.I. NO: 10EN10 STATE: CO VAL SEC: 0502V
***************************************	********

*******			SCOPE OF WORK				
PROJECT NUMBER	VAL SEC	STATE	M, P, FROM	M.P. To	SEGNENT	JOINT FACILITY	
71798 71798	05 02V 0502V	00 00	85.73 86.18	86.18 86.18	4716 4719		

, -

	.P. TRACK		umber number XTIES SWTIE	of ths of S balast	TRACK FEET	LINE
				***		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
85,73	86.18 NO 1	4716	0	0 190	0	0
86.18	86.18 NO 2	4719	0	0 190	0	0



FORM 30-1 PAGE 04 MORE WORK ORDER AUTHORIZATION - DETAIL OF ESTIMATED EXPENDITURES PROJ NO: 71798 A.W.O. NO: 06914 W.O. NO: B.I. NO: 10EN10 STATE: CO VAL SEC: 0502V RAILROAD: UPRR CO. LOCATION: FOUNTAIN, CO, FOUNTAIN MESA RD DEPARTMENT: ENGINEERING SERVICES STOCK MATERIAL PLAN ------ ITEM ITEM UNIT DIRECT NUMBER DESCRIPTION COST QTY UN MATL \$ -----........ 09874890 STAPLE, COPPERWELD 3/6 X 1 3/4 X 13054000 TIMBER SPIKE, TORXHEAD 3/4" X 12" 50210000 SWITCH TIE 7" X 9" X 10" 50361010 BCL2055 GALY RH E-CLIP PANDROL 50386210 WOOD SCREW SPIKE 15/16 X 6-1/2 50390200 TIE PLATE 7.75 X.16, 6" BASE E-CL 52005690 BOND WIRE,7 STRANDS 100 LF. ROLL 52005700 BOND WIRE,7 STRANDS 100 LF. ROLL 5200700 WER WILD BOND WIRE TX CTEC COMM 0.24 10 EA 2 1.83 396 EA 725 59.67 130 EA 7757 2,45 520 EA 1274 1040 KA 260 EA 10 LF 1.66 1726 11.67 0,86 0,87 3034 9 10 LF 52007040 WEB WELD BOND WIRE TK.CIRC.CONN. 54002000 ASPHALT, CROSSING FILL 54013010 131-141# CONC XING 8'L (10' WOODT 55255300 FIELD NBLD KIT, 136# ONE SHOT 55264570 PACKING SAND, PRB-MIXED (PER SACK 3.98 10 BA 40 90,00 1187,15 58,79 132 TN 22 ST 11880 26117 4 BA 235 22,35 0 CA 18 55264930 REPRACTORY PASTE 1.84 1 BA 2 56207660 BALLAST, CLASS 1 "D" 7.84 380 TN 2979 TOTAL 55,807

> MATL STORE EXP 606 SALES TAX 2,232

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EXHIBIT Byg/2

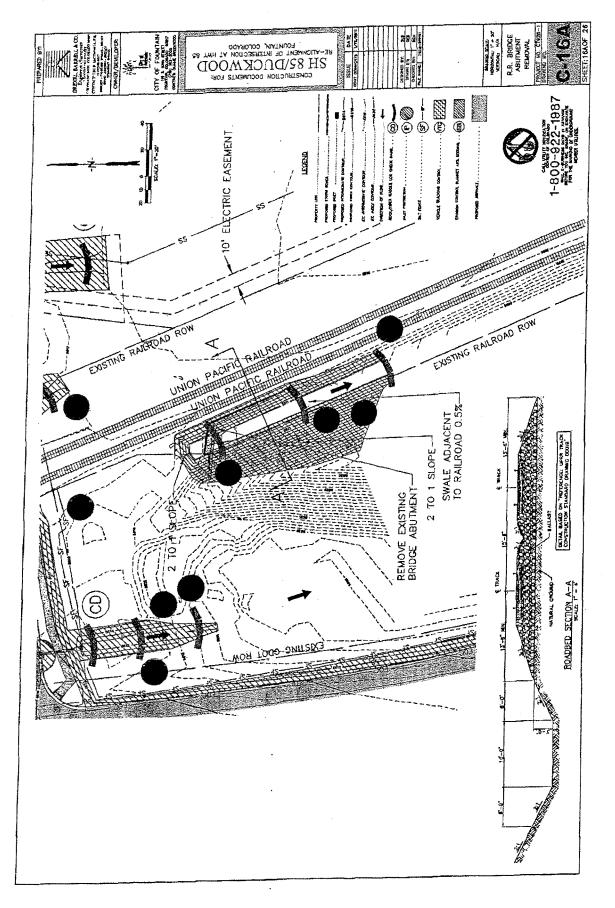
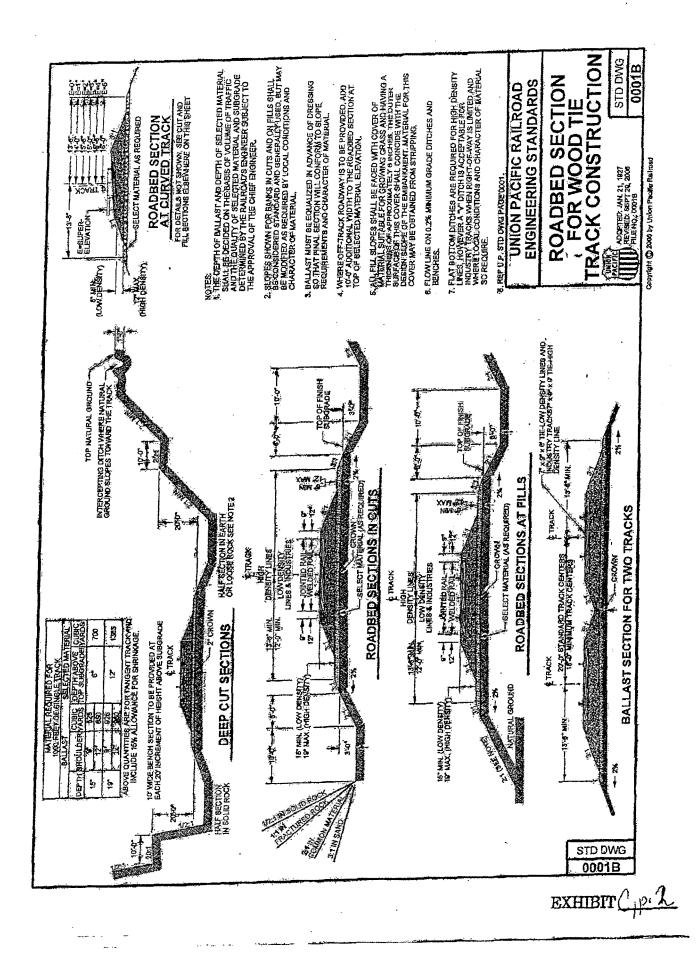
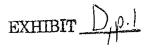


EXHIBIT C.p.1



CAMPBELL TECHNOLOGY CORPORATION GUIDE FOR DETERMINING TIME REQUIRMENTS FOR TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS

City City of Fo	untain		Date 12/	6/2011
County El Paso			completed by CT	C-Hollingsworth
District	Crossing	I		
	Street	(5	
•	A		6	allel Street Name
	Traffic Signal	ParallelStre	et <u>US</u>	85
		6		ain - Oha at Nama
North Arrow		Track:		ssing Street Name
(Rotate as needed)		Phase		kwood Rd
(notato as needed)	┟╀╂┫┨╄┟╏╋┼┼╎┥╎┝	┋╋╋╋╋╋	+++	
	ا ـــــار ا	X Warning Device		
Railroad UPRR MP	36.18	Railro	oad Contact Kelly	Abaray
DOT No. Pending PL	IC Approval		Phone 303-	405-5036
•				
Enter values in non-shade	d boxes. Shaded boxes are calculated.			
CEOTION & PROVE OF WA				
	Y TRANSFER TIME CALCULATION			
Preempt verification and re			Rem	arks
	delay time (sec)		.0	- B- () - 470
2. Controller response tim	e to preempt (sec)	2. 0	.1 Contr	oller type: 170
3. Preempt verification and	d response time (sec): add lines 1 and 2	· .	3 [1.1
L				and a second
Worst-case conflicting vehi	cle time			
Worst-case conflicting v	ehicle phase number(s)	4. 2	Rema	rks
Minimum green time dur	ing right-of-way transfer (sec)	5. 0.	0	
Other green time during	right-of-way transfer (sec)	6. 0,	0	
)		0	
8. Red clearance time (sec)	8. 2.	<u> ·</u>	:
O Manch and Otal				
9. Worst-case conflicting ve	chicle time (sec): add lines 5 through 8	*****	9. 6.0	
Worst-case conflicting pedes	strian fimo			
·	destrian phase number(s) 10	. 2	Remar	4.0
	g right-of-way transfer (sec)			N3
	luring right-of-way transfer (sec)			
	te, if not included on line 12 (sec)			
	e, if not included on line 12 (sec)			
	· · · · · · · · · · · · · · · · · · ·			
15. Worst-case conflicting per	destrian time (sec): add lines 11 through 14		15. 6.0	
	-		hanna i in in in i	
Worst-case conflicting vehicle				
16. Worst-case conflicting veh	Icle or pedestrian time(sec): maximum of I	nes 9 and 15		6.0
And Participant -	· · · · · · · · · · · · · · · · · · ·			part of the second s
17. Right-of-way transfer tim	e (sec): add lines 3 and 16		******	17.



SECTION 2: QUEUE CLEARANCE TIME CALCULATION

DVCD									
Traffic Design Vehicle	•								
Signal Z5 ^r CSD = Clear Storage Distance									
MTCD = Minimum Track Clearance Distance									
DVL = Design Vehicle Length L = Queue Start-up Distance									
DVCD = Design Vehicle Clearance Distance									
Remarks									
18. Clear storage distance (CSD, feet)									
19. Minimum track clearance distance (MTCD, feet) 19. 46 Per City of Fountain									
20. Des Veh - WB 50+15' overhang per CRS 42-4-504. 20. 70 Design vehicle type: Tractor-Trailer									
21. Average grade over crossing (%) 21. 0.0% See instructions if L>400'									
22. Queue start-up distance (L, feet): add lines 18 and 19 22. 22.									
Remarks									
23. Time required for design vehicle to start moving (sec): calculated as 2+(L/20) 23. 32.9									
24. Design vehicle clearance distance (DVCD, feet): add lines 19 and 20 24. 116									
25. Time for design vehicle to accelerate through the DVCD (sec)									
	NG 2								
26. Queue clearance time (sec): add lines 23 and 25									
SECTION 3: MAXIMUM PREEMPTION TIME CALCULATION Remarks									
27. Right-of-way transfer time (sec): line 17 27, 71									
28. Queue clearance time (sec): line 26									
29. Desired minimum separation time (ST, sec)									
· · · · · · · · · · · · · · · · · · ·									
30. Maximum preemption time (sec): add lines 27 through 29 30. 58.7									
SECTION 4: SUFFICIENT WARNING TIME CHECK Remarks									
31. Required minimum time (MT, sec), per regulations									
32. Wide crossing clearance time (CT, sec): verify w/ railroad 32. 2 round up (MTCD-35)/10									
33. Additional CT (sec): from railroad or public agency									
34. Minimum warning time provided by railroad (MWT, sec): add lines 31 thru 33									
34. Minimum warning time provided by railroad (MWT, sec): add lines 31 thru 33									
35. Minimum amount of advance preemption time needed from railroad (sec): subtract									
line 34 from line 30, round up to nearest full second; enter zero (0) if less than zero	20 M								
	196080								
If the value on line 35 is greater than zero, this is the minimum advance preemption time that should be requested from the									
rallroad. Alternatively, the maximum preemption time (line 30) may be decreased after performing an engineering study to									
investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14.									
investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14.									
investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14. Remarks: The worst-case conflicting pedestrian phase is the NB ped crossing. Crosswalk length = 97'.									
Remarks: The worst-case conflicting pedestrian phase is the NB ped crossing. Crosswalk length = 97'.									

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EXHIBIT D. p. 2

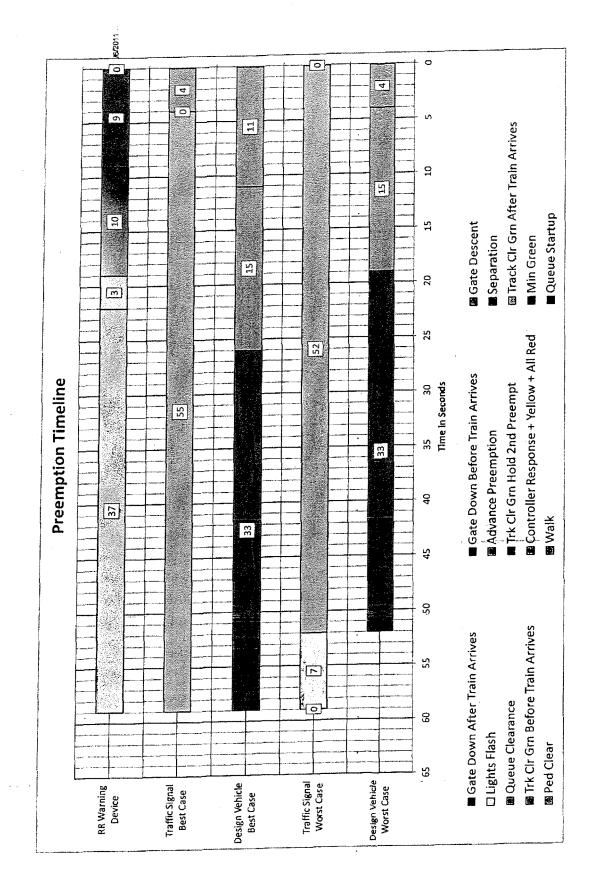
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| SECTION 5: VEHICLE-GATE INTERACTION CHECK (OPTIONAL)                                                  |
|-------------------------------------------------------------------------------------------------------|
| 36. Right-of-way transfer time (sec): line 17                                                         |
| 37. Time required for design vehicle to start moving (sec): line 23                                   |
| 38. Time required for design vehicle to accelerate through DVL (on line 20, sec)                      |
| 39. Time required for design vehicle to clear descending gate (sec): add lines 36 through 38          |
| 40. Duration of flashing lights before gate descent start (sec); get from railroad                    |
| 41. Full gate descent time (sec): get from railroad                                                   |
| 42. Distance from center of gate support to design vehicle (ft) 42. 7.0 See Figure 4                  |
| 43. Proportion of non-interaction gate descent time                                                   |
| 44. Non-interaction gate descent time (sec): multiply lines 41 and 43                                 |
| 45. Time available for design vehicle to clear descending gate (sec): add lines 40 and 44 45. 45.     |
| 46. Advance preemption time (APT) required to avoid design vehicle-gate interaction (sec):            |
| subtract line 45 from line 39, round up to nearest full second, enter zero (0) if less than zero      |
| Use Vehicle Gate Interaction ? No                                                                     |
| SECTION 6: TRACK CLEARANCE GREEN TIME CALCULATION Is Gate Down Circuit Present ? Yes                  |
| Preempt Trap Check (Use if gate-down circuit not present)                                             |
| 47. Advance preemption time (APT) to be provided (sec) 47. 0 NA Enter APT from line 35 or line 46     |
| 48. Multiplier for maximum APT due to train deceleration                                              |
| 49. Maximum APT (sec): multiply line 47 and 48                                                        |
| 50. Time from start of flashing lights until gate is horizontal (sec)                                 |
| 51. Gates down after start of preemption (sec): add lines 49 and 50 51. 51. NA                        |
| 52. Preempt verification and response time (sec): line 3                                              |
| 53. Best-case conflicting vehicle or pedestrian time (sec): usually zero (0)                          |
| 54. Minimum right-of-way transfer time (sec): add lines 52 and 53                                     |
| 55. Minimum track clearance green time (sec): subtract line 54 from line 51                           |
| CLEARING OF CLEAR STORAGE DISTANCE (OPTIONAL)                                                         |
| 56. Time required for design vehicle to start moving (sec): line 23                                   |
| 57. Design vehicle clearance distance (DVCD, feet): line 24 57. 116 Remarks                           |
| 58. Portion of CSD to clear during track clearance green (feet) 58. 132                               |
| 59. Design vehicle relocation distance (DVRD, feet): add lines 57 and 58 59. 3248                     |
| 60. Time required for design vehicle to accelerate through DVRD (sec)                                 |
| 61. Time to clear portion of clear storage distance (sec); add lines 56 and 60                        |
| 62. Track clearance green interval (seconds): maximum of lines 26, 55, or 61, round up to full second |

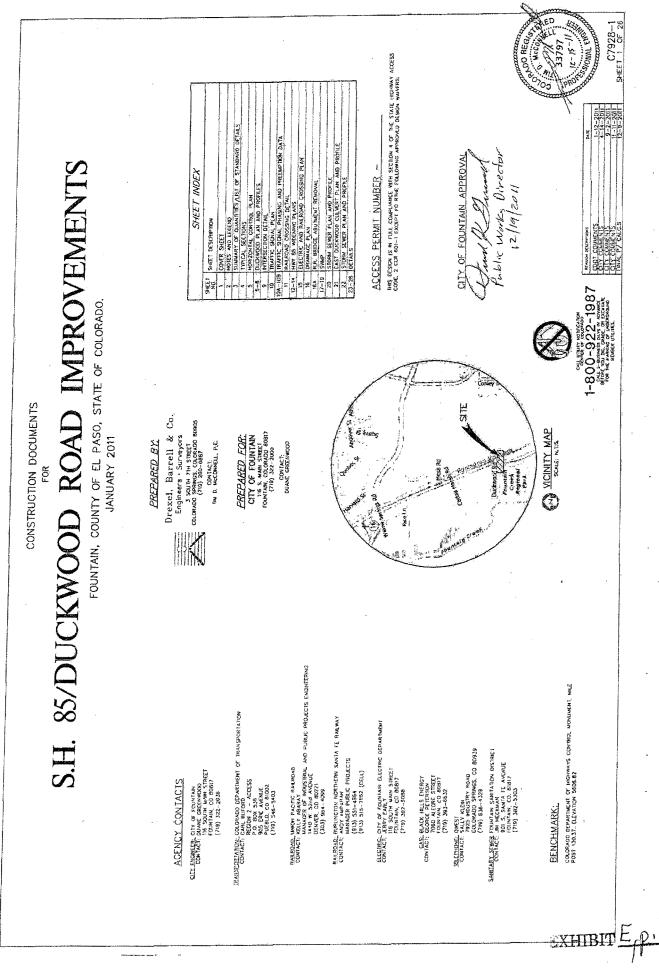
EXHIBIT  $\underline{0}, \underline{1}, \underline{3}$ 

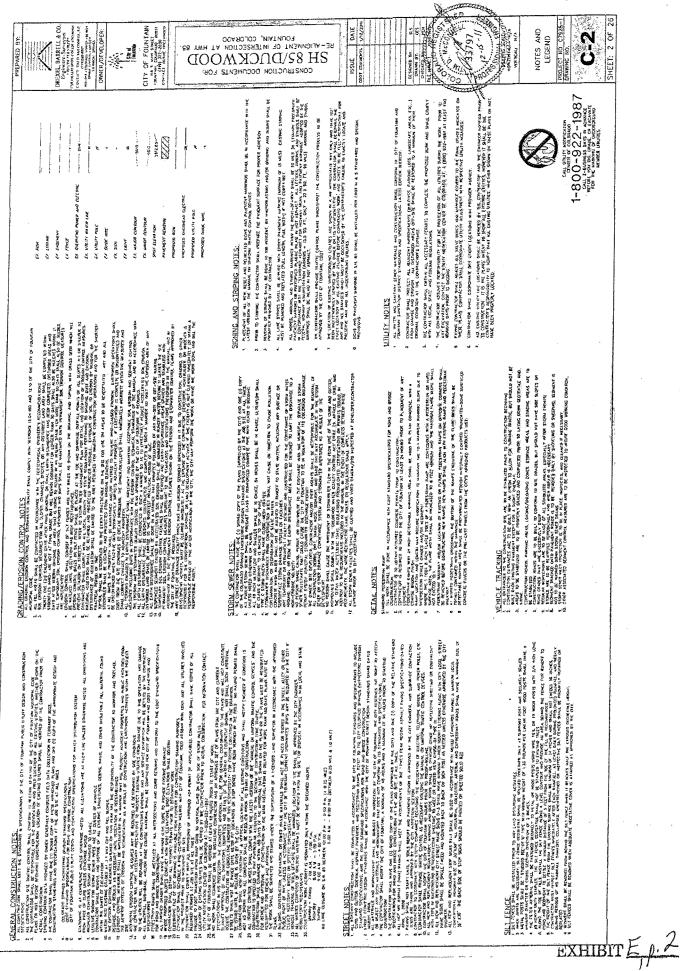




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EXHIBIT D. p.4



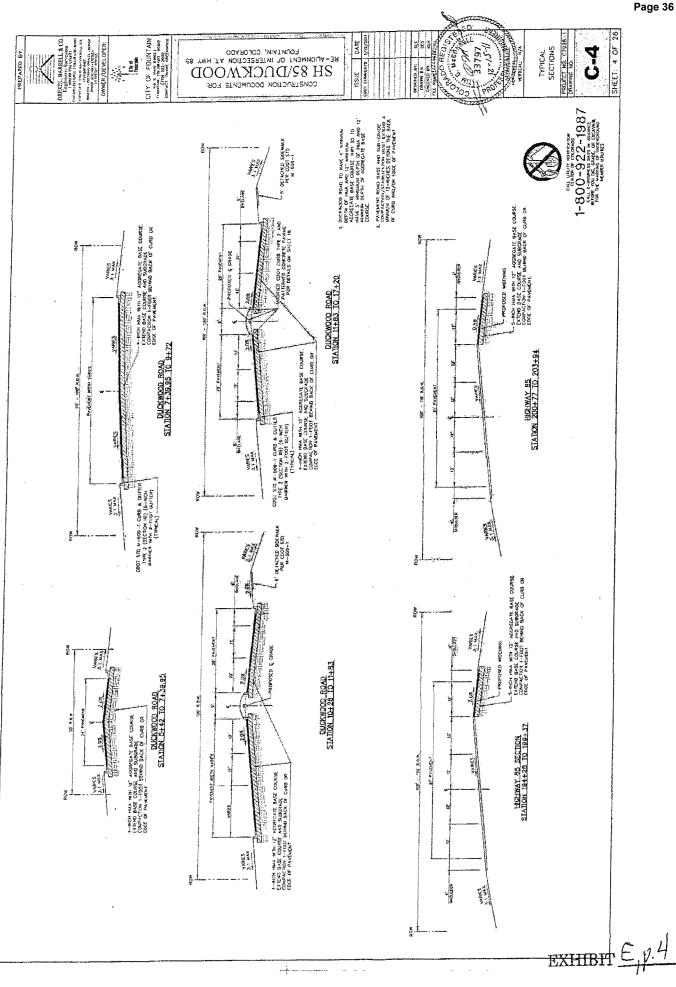


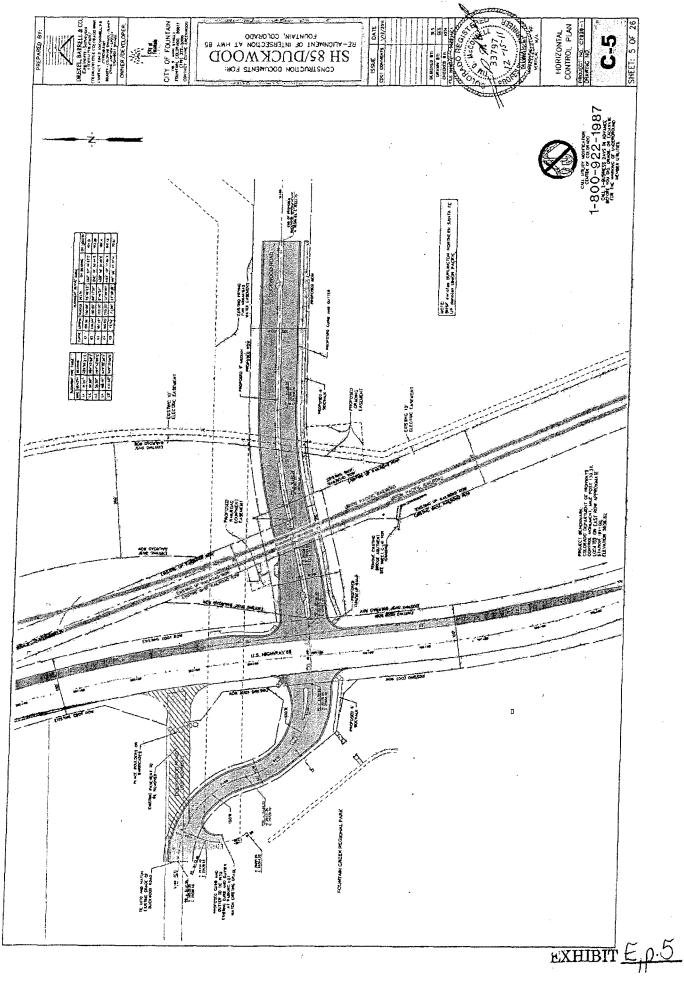
|                 |                                       | CC.                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <i></i>                                                                                                                                                                                                         | 4 3 8                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.41.4-34                                                                                              |                                                                                                                                                                                                                                        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                                                                                                                                     |                                                                                                                                                |            |                                    | Docke                                                      | n No.<br>t No.                            | chmen<br>R13-02<br>10A-40<br>Page |
|-----------------|---------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| HALPARED BY     | X                                     | DREXEL, HARREL &<br>Engineers-Succyary<br>2 Stortu Thermer     | CONTACT THAN IN WALCONNELL, P.C.<br>TRANST VITUDIANUS - MINING AND VITUDIANUS - M | Hand Hand                                                                                                                                                                                                       | CITY OF FOUNTAIN<br>19 5, DAM 9 PUET<br>FUNITAIN, COLOMOO BOAT<br>(119) 132-2000<br>CONTACT DUARC DIFFERENCE                                                                                                                          | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VL HML<br>DOI<br>EOE                                                                                    | STNBMI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IRUCTION DOCU                                                                                                                                                                                                                                                                                                                                                                                                  | ынопу<br>8 Н<br>5 Колг                                                                                                                                                 | 5                                                                                                                               | COL COMMENTS 1/12/7                                            |                                                                                                                                                   | OCENTED BY 15 15 15 15 15 15 15 15 15 15 15 15 15                                                                                                                                                                                                                 | 00 #00 #00 B                                                                                                                                     | 0-12-0<br>                                                                                                                                     | SUMMARY OF | UUANTITIES/LIST<br>STANDARD DETAIL | PROJECT NO. C7928-1<br>DRAWNG NO.                          | 3                                         | 1                                 |
| UST OF GETARS   | COLORADO DEPARTMENT OF TRANSPORTATION | PARTS THE PARTS THE PARTS THE PARTS                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | er (suct 1) of 2)<br>eff 10 of 4)<br>AND SERVAN (SHETS 1, 2, 3 of 4)<br>AND SEVAL NSTALATION DETAILS (SHEFTS 1 10 5)                                                                                            | ADS SPARIGS STANDARD DETAILS<br>M.O.<br>PEPRESTRAMA DAURI                                                                                   | D-60 PERCENTER AND FUELD FOR DUTECTARE PARERS<br>D-218 DUPB OPENING, STAND DE DUPAL, (SHEELS 1 & 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MISCELLANEOUS DETAILS<br>PATTERED CONCRETE MEDIAN PANNE DETAIL<br>PREER REVIS-AND - DECAME PANNE DETAIL | SLITENEE THAT A DEVENDENT ON A STATE OF A ST | SLOTED DRAM GUIVERT DETAIL                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                                                                                                                                 |                                                                |                                                                                                                                                   |                                                                                                                                                                                                                                                                   |                                                                                                                                                  |                                                                                                                                                |            |                                    | сы имит жиекалов<br>1-800-922-1987<br>ск лизека виз и омит | ENCAVATE<br>RGROUND                       |                                   |
|                 |                                       |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         | - 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| TOTALS          | AS CONST                              | +                                                              | ······                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         | - 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| Ĕ               | VI3 HAUD                              | 1626                                                           | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                 | CNIT                                  | 5255                                                           | ខ្មីកិសិសិត                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                     |                                                                                                                                                |            |                                    |                                                            |                                           |                                   |
| (1) Stream more | UK-SUMPPRIZE                          | Remove appeal<br>Remove appeal<br>Remove Signs<br>Remove Signs | and a reference<br>and a chatter<br>at Road Closure<br>Frond Bridge Abutment Demoktion and Ragrading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Docriment Marking (ared Ammad)<br>Reformed Thermoplastic Docriment Marking (ared Ammad)<br>Reformed Thermoplastic Surges (MV, Ippa d)<br>(rober Reformed Duckensch Hall Occusa Hauce<br>(rober Reformed Duckensch Hauce | Vasidi 18" RCP, including (Ittings, badding,<br>and compaction, complete im-place<br>to CS: Commatic facoast distret ourin<br>Matical 24" ELUPTICAI RCP: including out | 1 comportion, complete imported angle become.<br>Lot 5 Type 'na met complete in -ploce<br>Lot 5 Type 'na met complete in -ploce | termin close<br>torn 18. PCP FES<br>Add 24" ELLIPTICAL RCP FES | more Utility pates<br>(1 Vility pates<br>etheod etection<br>Program (Estection In Condults<br>Per Esteringation (Condults - 2° Concuts one of the | Teritzonenta (Neusy wing)<br>Teritzonenta (Neusy wing)<br>Teritzonenta Azarenta/V See onte Jaum)<br>Premunitan (Scauty central Asarmity and Appurtenances<br>Premunitan (Scauty central and and Joburg Podewic<br>surge proceediden, Cabarel Veretricca grand rod | R Fonce<br>Intel Protection<br>Res. Affrits weight Log Check dame<br>Vehich Tracking Contra Universit<br>Notive seeding Forsiton contrat bionuel | Traffic Signud Assembly to include Signal Heads. Pale,<br>kurat urm. Video Datection and Opticom Delector as<br>Phoen per Traffic Signal Plan. |            |                                    |                                                            |                                           |                                   |

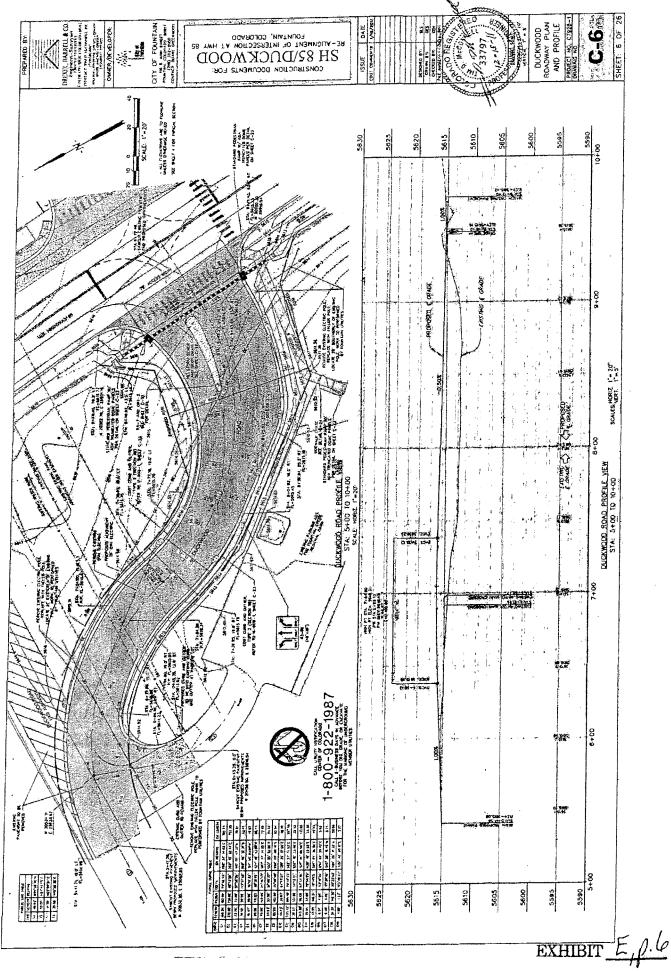
EXHIBIT E.p.3

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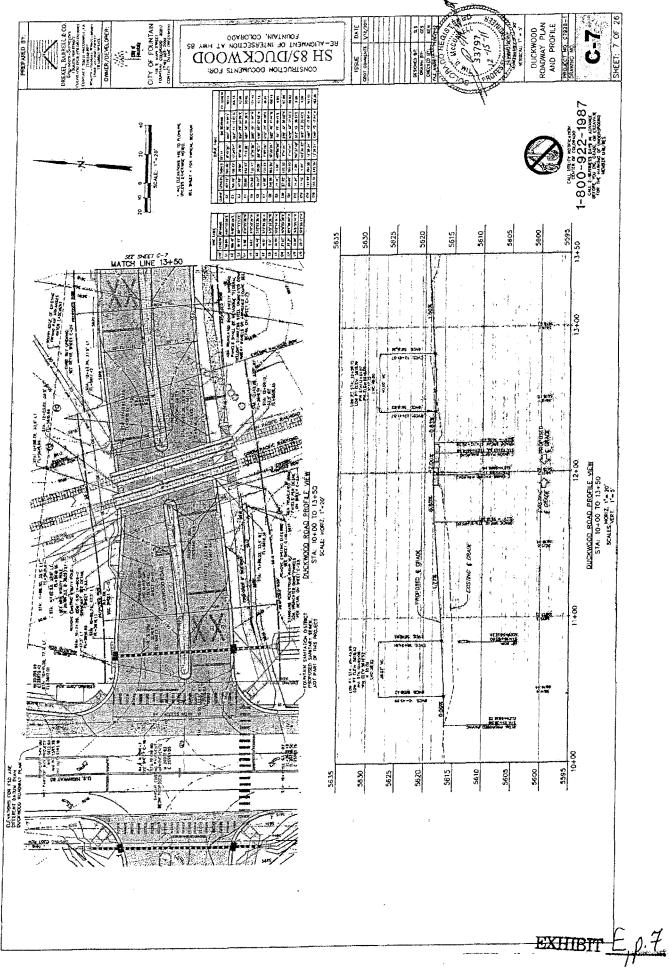
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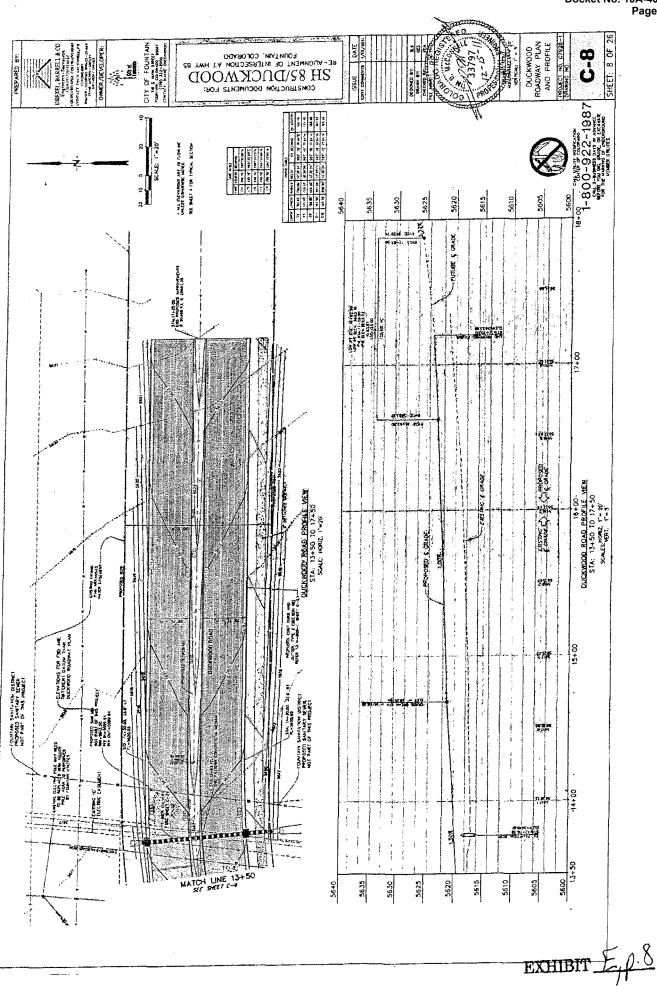


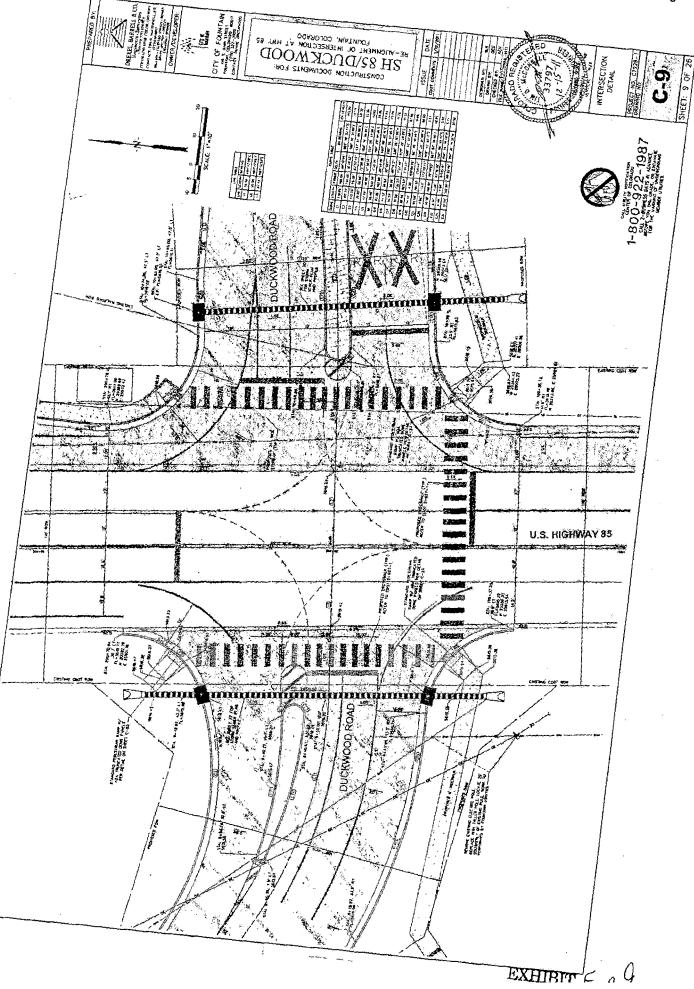


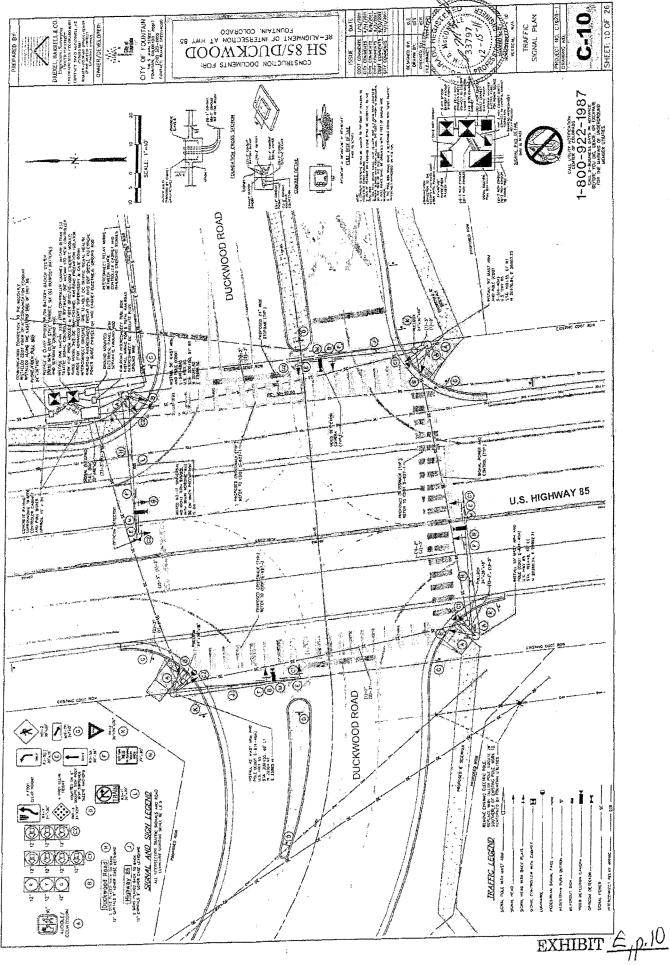


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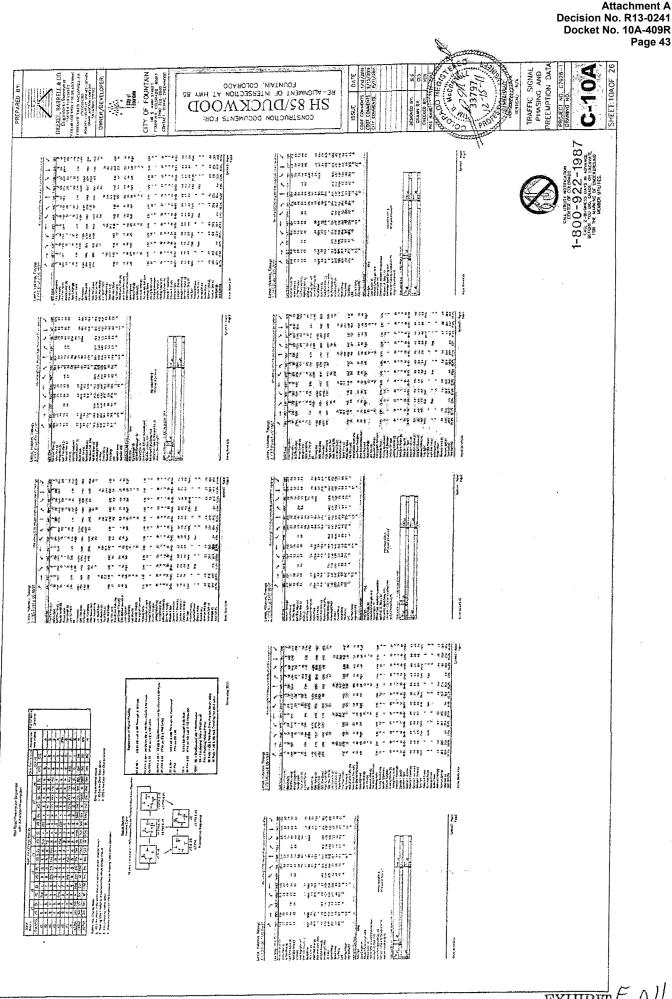
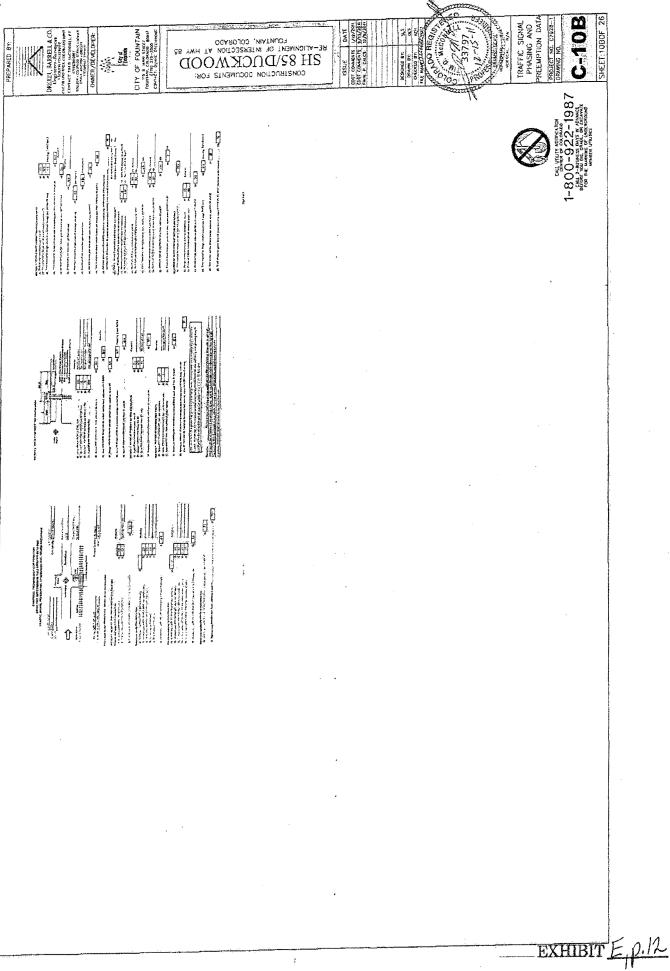


EXHIBIT <u>E, p. 11</u>

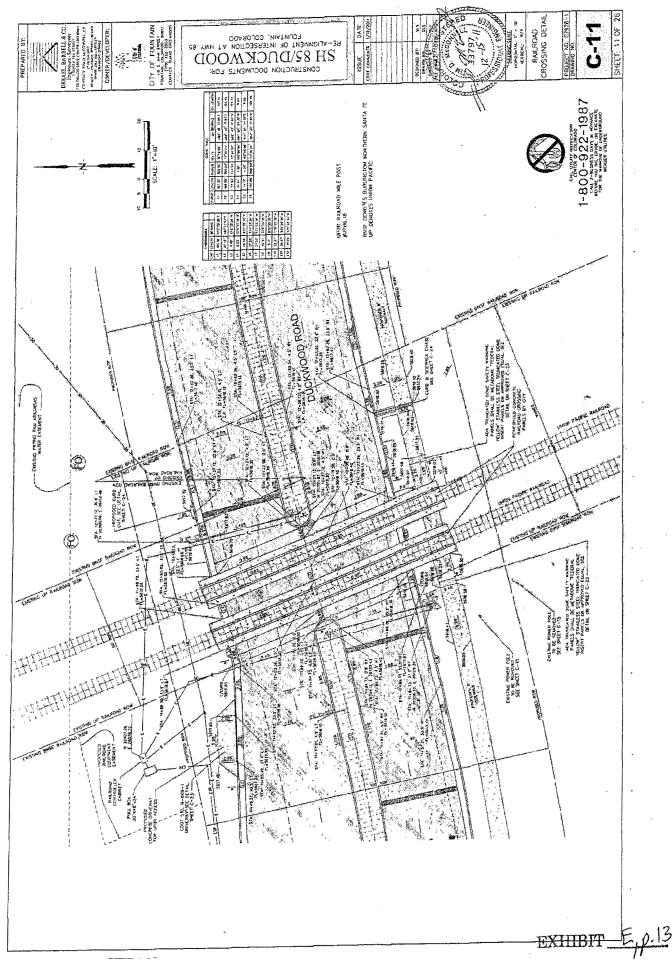
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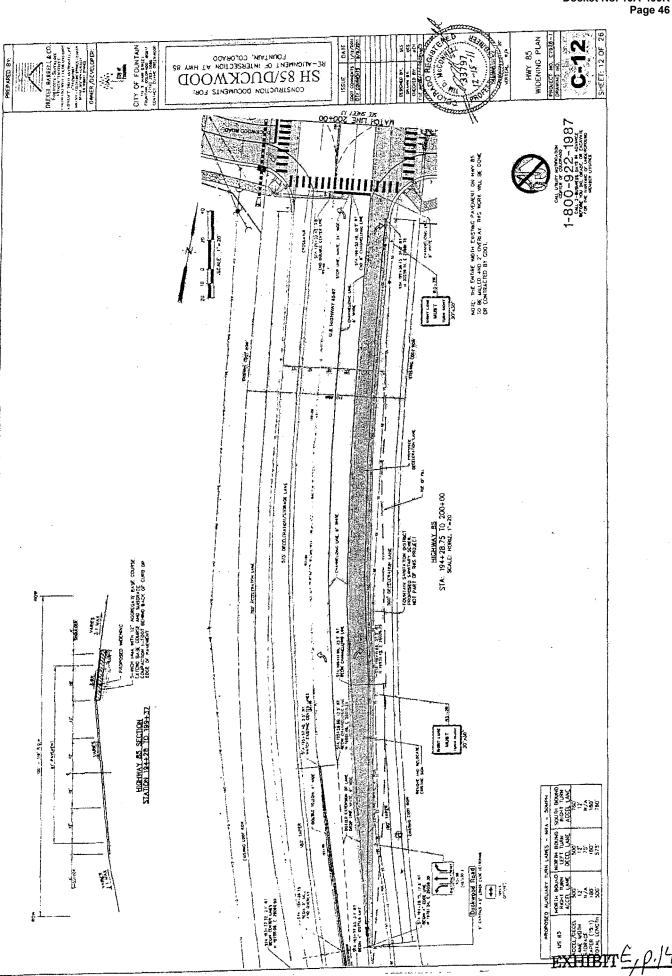
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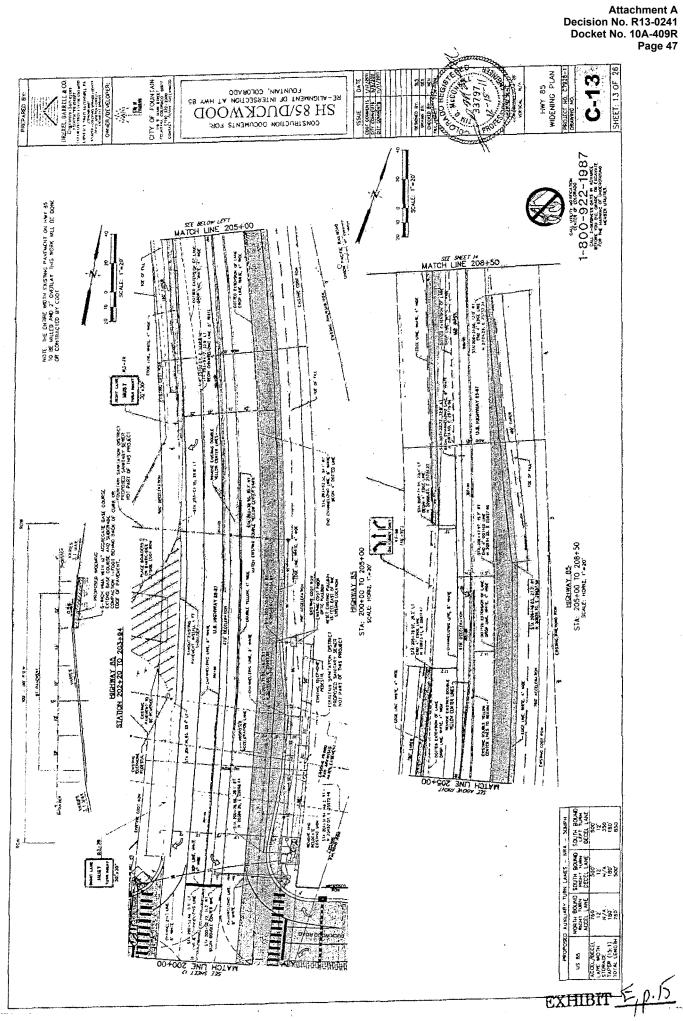
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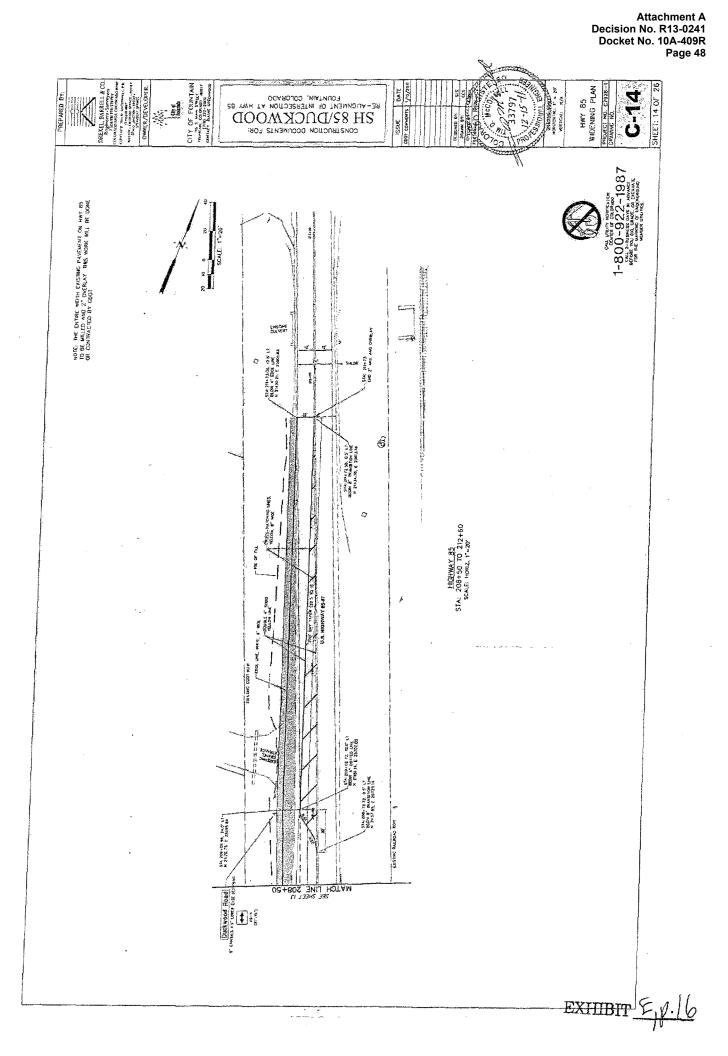


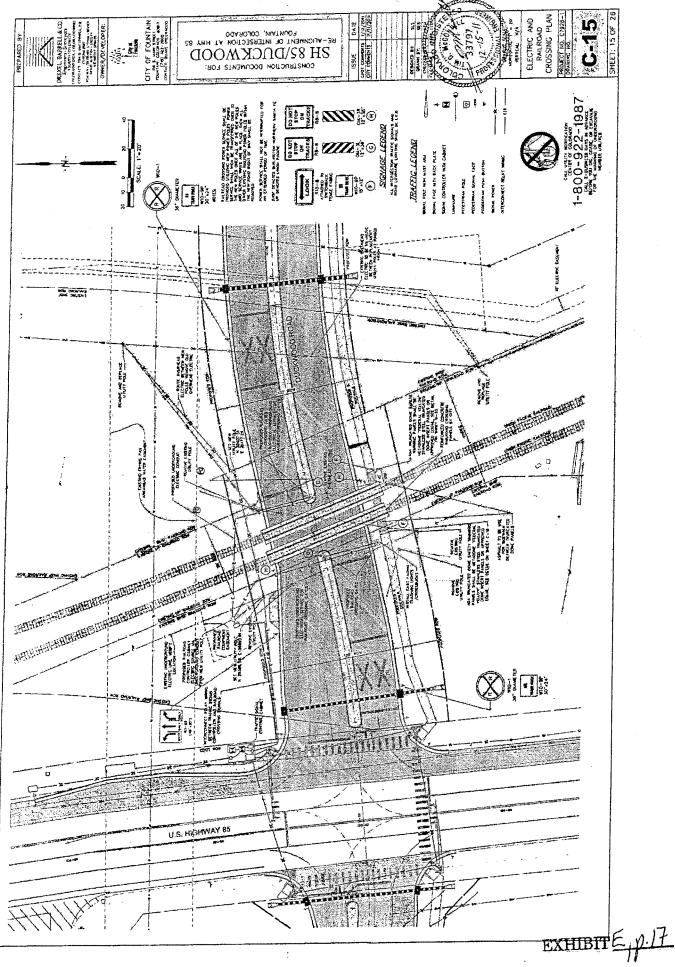
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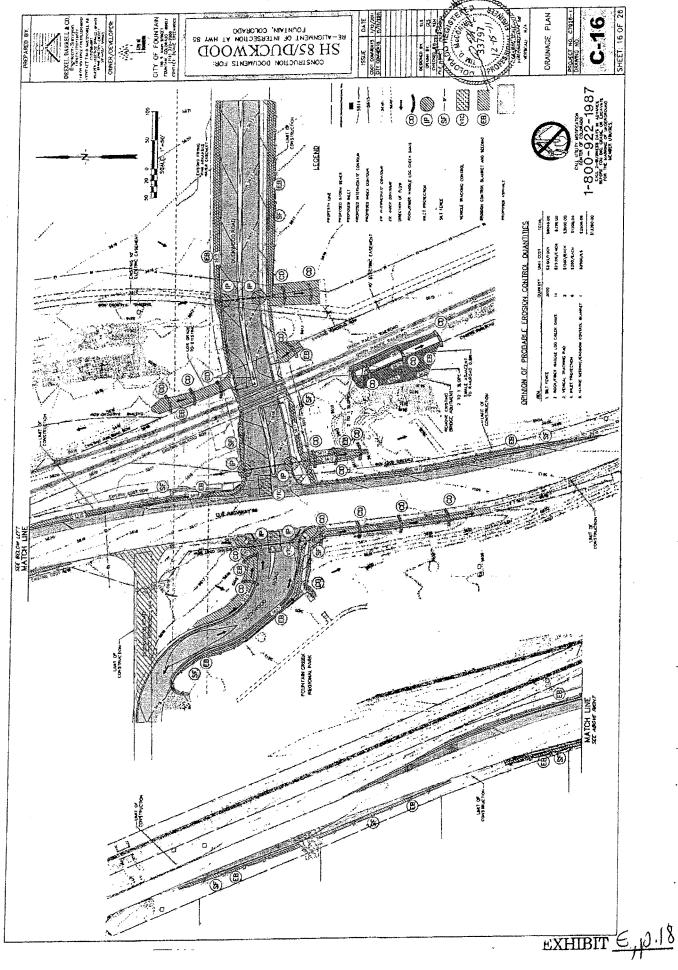


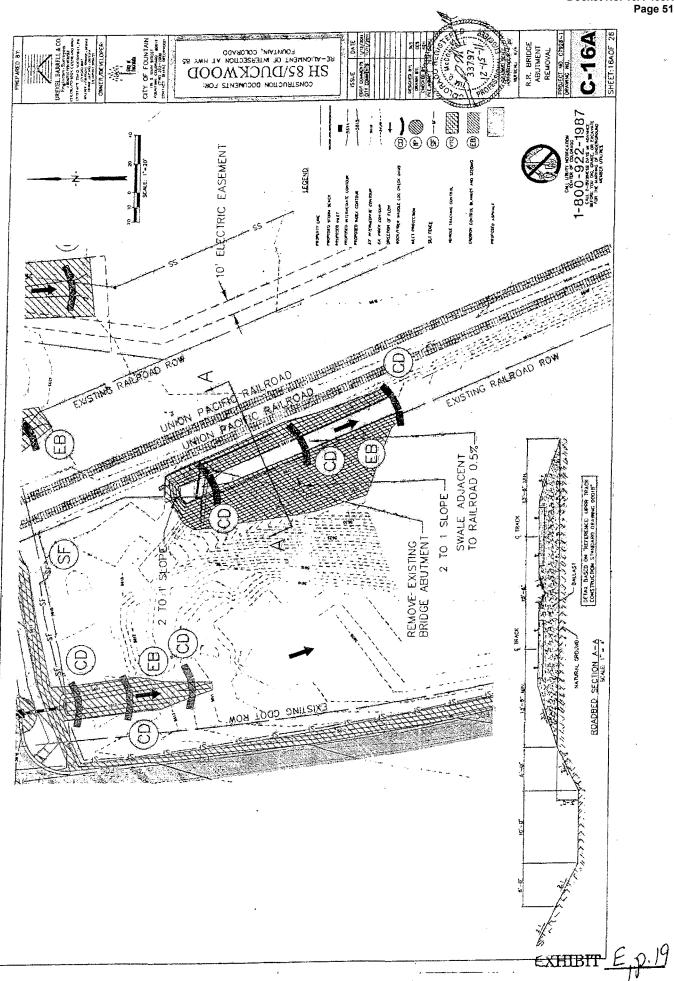






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|                 | I SIE DESCRPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                    | ľ       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------|---------|
|                 | CHITICANA, INTERNATION FOR PERMITED PROPERT. FOR HEIDENATION GMLY TO FLUFTL THE COPS-SOP (COLORADO DISCHARGE FERMET -<br>STORMARA, IR CONSTRUCTION PERMIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3. SWMP ADMINISTRATOR FOR DESIGN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N.L. THA D. MCCONNELL, PE, PRIMECT                         | МСЦ. РЕ. Р         | N¥<br>N |
| ********        | A. PROJECT SIT DESCREPLOR. RE-ALIGNMENT OF DUCKNOOD PRAA, PROPOSED MITERSECTION WEAL HAY BS, WICHNIG HAY BS FOR<br>TURY/ACCEL/DECEL LANES, NEW PRUFICIOL CONSSIGNS AT DUCKNOOD PRAA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | "+ REVENTATION MANAGEMENT CONTROLS FIRST CONSTRUCTION A<br>THE CONTRACTOR SUM DEPENDENT THE FOLLOWING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>30LS FIRST CC</u><br>MARG                               | DINSTRUCT          | ĝ       |
|                 | 8. FR2CENTO, STORNEHO TOR, MAGRA ACTIVITS. MS144, B405, CLEAR AND STUD, STE DEMOLINOM, CAMBRIG, UTIVITY MS1ALLATIONS,<br>RALINOM, DEMORANCE CONFERENCEME, RADOGLO COMPARAT, MS144L, LANDSCHURG, SACHOG, AND STIRPAG, RAALISE CONSTRUCTION AND<br>REVOOR TRAFFORMARY B462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A REASON A SWALL A SWALL AND STREETED A DEAL AND STREETED A SWALLAND A SWALL ADDREETED A DEAL ADDREETED A SWALLAND A SWALLAND SKEPONSING FAD.<br>ACTIVITIES AND REFOREMENT FOR A DEAL ADDREETER. TO BE SMALL ADDREES ALL A<br>ACTIVITIES AND REFORMENT FOR A DEAL ADDREETER. TO BE SMALL ADDREES ALL A                                                                                                                                                                                                                                                                                                                                                                                                                                   | NUN CONTROL SUPE<br>NTING, MANYANNING<br>ADMINISTRATON SH  | AND REVISION (10   | 500     |
| •               | C. ACRES. OF DESURPARIZE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8. POTANTAL POLIVIANI SOURCES<br>EVALUATE, IDENTIFY AND DESCRIBE ALL POT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TENTIAL SOURCES                                            | CPE POLITIKA       | 217     |
|                 | TOTAL ARTEA OF CONSTRUCTION STR. 67 AC)<br>TOTA ARTEA OSTURISMUCE: 67 AC)<br>AOREAGE ON SECTIONG. 26 A AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SUBSCTION 10,25 AND PLACE IN THE SWAP NOTEEDONE. ALL BAN'S RELATED TO<br>SHOWN ON THE SWAP STE AND BY THE CONTRACTORY ECS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MAP NOTEBOOK, AN                                           | T BAPS RE          | N.      |
|                 | D, EXELING SOM CALL. HANKARD SANDY LOW, WELL TO SOMEWAT EXESSIVELY DRANGE, LOW TO VERY LOW RUNDET, RAD TO YAR.<br>PERCENDILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A WALL BUT UND AND AND A AND AND AND AND AND AND AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | of Billion Manter of                                       | Na ROLDIN          | 3       |
|                 | E EXEMPLE YESTERDAY AND UP FOR CELL COYER. CRASS MED REEDS 100X<br>DATE OF SAMON: FEBRIARY 2008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DURING OCSIGN: FILLDS ARE MARKED WHEN USED IN THE SAMP, DURING CONS<br>THE CHECKED BORKS TO MARKEN SIE CONOMINGS (LEARLY PERSER) HIE RELAR<br>CONSTRUCTION AND THE IMPLIFIENTATION OF PLAN FORMARY SI SAMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EN USED IN THE SN<br>DITIONS, CLEARLY D<br>OF PMP FORTHOUS | MAP DURN           | <br>    |
|                 | <sup>5</sup> EQIENTIAL FOLUTARIS SQUECES. SEE FIRST COMBINACTION ACTIVITES LANDER POTENTIAL POLUTARI SAURCES. THE ECS SHALL PREPARE<br>A UST OF ALL POTENTIAL POLUTARIS AND TREAS LOCATIONS IN ACCORDANCE WIN SUBSECTION 107.26.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DESCREMENT WHY THE BURNS ARE BEIND USED WILL CONTINUES THAT AND A PROVIDING STREAMS THAT AND A PROVIDING STREAMS AND STREAMS | ED IN SPECIFIC LOC                                         | ATRONS PER         |         |
|                 | C SECENAL MAILE.<br>1. OTTALL CALLERS. MO CONCENTRATED FLOWS OR A STORM STATUM AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Þ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                    | Ę       |
|                 | H ALLOWARDE, HOW-STORWALTER, DESCHARTER,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                    | -       |
|                 | I PEDIPRIMARIA DIGUMANTER DETAILERUE DOCIMARE IN THE CADANO OF WATER FROM CONSINCTION OF MATERNO ACTIVITES MAY<br>DE METOPODE TRANSLE TARANDET TARANDE DELANDER COMENCO MEN STORMWATER THAT DOES NOT COMTAN POLIVIANS,<br>I THE SOURCE AND THAN ARE PREMIMENT AND/OF ELANDERED MEN STORMWATER THAT DOES NOT COMTAN POLIVIANS,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BMB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | fype of<br>Cantrol                                         | BMP As<br>Designed | S S S   |
|                 | c DISCHARGES DO NOT LEAVE HE STREAM SAUGHT OF TO SUBFACE WIERS. 2 # DISCHARGES DO NOT LEAVE HE STREAM FORMER OF TO SUBFACE WIERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                    | ÷       |
|                 | CINTAMPATED GPOINDBATER RECARDATES, MANDER A SEPARATE FORM MANDE DE ORBANDERIE OF MALINE MALLES RECARDARED.<br>POLUTAVIS FROM A LANDRILL, MINNE ACTIMATES, NOUSTELL, INCLUZIE FORMUNATES, CONTAMPATED WEN<br>POLUTAVIS FROM A LANDRILL, MINNE ACTIMATES, NOUSTELL, INCLUZIE FORMUNATES, CONTAGETAMA, EED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Check Doms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Erosion<br>Sediment                                        | _                  |         |
|                 | L EVENTRALIA MEASTRAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SN: Fence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sediment                                                   |                    |         |
|                 | L. SHERAM BARPACIS. NO<br>2. SHERAM BARANCIS. NO<br>3. INHALIBIOL AND EMANATERE SEICHER. J.J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Eration Logs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sediment                                                   |                    | ++      |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Temperary Sediment Trup Bosin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sediment                                                   |                    |         |
|                 | 2. SILE MAP COMPONENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pernagent Sediment Trop/Bosin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sediment                                                   |                    |         |
|                 | PRE-CONSTRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_STRUCTION_S | Embarkment Protector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Erosion                                                    |                    |         |
|                 | C ALL AREAS OF CARARY SUBSACE DESTROYANCE A SEAS SALL ARE AND SUBSACE DESTROYANCE A SEAS SALLARD FALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Intel Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Erosian                                                    |                    |         |
|                 | D. UCCATION DE ALL STRUCTURAL RAPES AS, AFRICARE, R. 196, SUMP.<br>E. UCCATION DE RED-STRUCTURAL RAPES AS, REPLICARE, R. 106, SUMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Outliet Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Erosion                                                    | _                  | -+      |
|                 | 1. PROJECTION OF THEES, SHRUBS, COLUMAL, RESOURCES AND WATURE LEGELATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Concrete Woshouts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Construction                                               |                    | -+      |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stabilized Construction Entrance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Construction                                               |                    | -+      |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Devolaring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sediment                                                   |                    | +       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | F. OSION                                                   | _                  |         |
|                 | . 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SLIFENCE - LOCATED DOWN SLOPE OF AREAS OF NISTUREAU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DPE OF AREAS                                               | DE DIST            | - 3     |
|                 | e Marshard (1997)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CONCRETE WASHOUTS - REQUIRED FOR THE CURB AND GUTTE<br>SIDEWALK, LOCATED PER CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ) FOR THE CU                                               | RB AND             | 13      |
| E               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                    |         |
| <del>XH</del> I |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                    |         |
| BIT.            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            | -                  |         |
|                 | 6: 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                    |         |

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| OOD                                     | KM<br>CUMENTS                       | Dſ.                                                                                                             | 10                                                                                                             | Į٧                                                                                                             | 78          | H                                                                                                                | S                             | 12 - 12 Mar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ISSUE                 | COOL COMPANY     |                    |                         |                                     | DESICHED BY:<br>DRAWN BY.                                                                                      | out note period and       | A O THERE A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 700                                                                                                             | er fr                                                                                    | 21.12                       | And the other | N'RECA. |
|                                         |                                     | <u></u>                                                                                                         |                                                                                                                |                                                                                                                |             |                                                                                                                  |                               | - <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                  |                    | <u></u><br>             | k                                   | - <u>-</u>                                                                                                     |                           | <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | रेक्ट्रे<br>१                                                                                                   |                                                                                          | <u> </u>                    |               |         |
|                                         | ,<br>Interim/Finol<br>Stabilization | And and the second s | and a second | and a second |             | and the second |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ×                     |                  |                    | rumantaran jilikan di m | ana a s'abasana ang padan dan tanan | and a second |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | and a state of the second s | CONCRETE                                                                                 |                             |               |         |
| HOT LANTED                              | During<br>Construction              |                                                                                                                 |                                                                                                                | ×                                                                                                              | ×           | ×                                                                                                                |                               | Company of the second se | ×                     | ×                | ×                  | ×                       | ×                                   | ×                                                                                                              |                           | and a subscription of the second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SEDIMENT.                                                                                                       | D DRAIN AND. C                                                                           |                             |               |         |
| THE | First<br>Construction<br>Activities |                                                                                                                 |                                                                                                                | ×                                                                                                              | ×           | ×                                                                                                                |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                  |                    |                         | ×                                   | And a second |                           | And the second se | TO CAPTURE                                                                                                      | INLETS, SLOTTE                                                                           |                             |               |         |
| 1 Y M C 2 2 2                           | s so s                              |                                                                                                                 |                                                                                                                |                                                                                                                |             |                                                                                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | -                |                    |                         | ŀ                                   |                                                                                                                |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | REANCE                                                                                                          | JTTCR,                                                                                   |                             |               |         |
| 1                                       | BMP As<br>Designed                  |                                                                                                                 |                                                                                                                |                                                                                                                |             |                                                                                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                  |                    |                         |                                     |                                                                                                                |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | OF DISTUR                                                                                                       | 6 AND CL                                                                                 |                             |               |         |
|                                         | fype of<br>Control                  | Commentation of the state of the state                                                                          | Erosion                                                                                                        | Sediment                                                                                                       | Sediment    | Sediment                                                                                                         | Sediment                      | Sediment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Erosion               | Erosian          | Erosion            | Construction            | Construction                        | Sediment                                                                                                       | Erasion                   | And the second se | E OF AREAS                                                                                                      | FOR THE CUR                                                                              | OK.                         |               |         |
| ¢.                                      | BMB                                 |                                                                                                                 | Earth Berm/Diversion                                                                                           | Check Doms                                                                                                     | SRI Fence   | Erasion Logs                                                                                                     | Temporary Sediment Trap Bosin | Permanent Sediment Trop/Bosin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Emborisment Protector | intel Protection | Outliet Protection | Concrete Washouts       | Stabilized Construction Entrunce    | Dewotaring                                                                                                     | Temporary Streom Crossing | Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SILL FENCE LOCATED DOWN SLOPE OF AREAS OF DISTURBANCE TO CAPTURE SEDIMENT.                                      | CONCRETE MASHOUTS - REQUIRED FOR THE CURB AND GUTTER, INLETS, SLOTTED DRAIN AND CONCRETE | EWALK, LUCATED PER CONTRACT |               | ÷       |
|                                         |                                     |                                                                                                                 | <u> </u>                                                                                                       | 5                                                                                                              | ñ           | à                                                                                                                | <i></i>                       | ā j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ũ                     | 5                | 0                  | Ö                       | ŝ                                   | ٥                                                                                                              | E.                        | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ū                                                                                                               | ĝ                                                                                        | 22                          |               |         |

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PROJECT NO. C7928-1 DRAWING NO. 0-17

SWMP

NON-STRUCTURAL BMP PRACTICES FOR EROSION AND SEDIMENT CONTROL: PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

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| dW8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Type Of<br>Contral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BMP As Use<br>Designed On<br>Site                                                                              | Use<br>Or<br>Site | First<br>Construction<br>Activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | During<br>Construction                                                                                         | Interim/Final<br>Stobilization                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | Γ                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                | An ing a star and an |
| Surface Roughening/Grading<br>Techniques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                | 1                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ×                                                                                                              | ×                                                        |
| Seeding Permonent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ×                                                                                                              | ×                                                        |
| Seeding Temporory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                | Ì                 | And and a second s | X                                                                                                              | ×                                                        |
| Mulch/Mulch Tockifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                          |
| Soil Binder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Erosian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                          |
| Soil Retention Blonket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Erosian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                | -                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ×                                                                                                              | ×                                                        |
| Vegetative Buffer Strips                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ×                                                                                                              | ×                                                        |
| Protection of Trees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | and a second |                                                          |
| Preservation of Mature<br>Vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                          |
| Other .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                          |
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- DESEIF GRANNET GRAINE MAILER. 1. NOTENER AND STROMD MARS AND THE SAMP SITE WARP THAT MAKE GREIN ANTLATION TO ADDRESS RUM-DN 1. NOTENE IN ACCORDANCE WITH SAMPSECTION 200,01.
  - E. SLABILIZED CONSTRUCTION ENTRAUEE AVENGLE TRADEDIG CONTROL I BUPS SHALL BE LUPLEVENTED IN ACCORDANCE WITH SUBSECTION 208,04,
- F. ELYNKERE CALLER. 1 PERMETER CALLER 1 PERMETER CALLER FELSHELSHED AS THE FIRST ITEM ON THE SWOPT D PREFENT THE POTAMINAL TOR DESTAURTANTS OFFICE CALVER IN ALCONGUED AS THE FIRST ITEM ON THE STORMARTER DAMAGE SYSTEM, OR DESTAURTANTS CONTROL IN ALCONGUED AS THE FIRST FERENCE FIRST FERENCE FORMARTER CANANCE SYSTEM, OR 2 PERMETER CONTROL AND CONSTANT OF ALCONGUED BREFERS. BERNES, SULTS FERENCE FORMARTER CONTROL AND CONSTANT OF ACCONGUED FOR AND THE PREFERS.

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 A. RECORDS SHALL BE IN ACCORDANCE WITH SUBSECTION 200,03 (C).

| COMMON NAME           | BOTANICAL NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POUNDS<br>PLS/ACRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BUFFALOGRASS          | TEXOKA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2,08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| BLUE GRAMMA           | HACHUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WESTERN WHEATGRASS    | ARRIBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SIDEDATS GRAMMA       | VAUGHN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| THICKSPIKE WHEATORASS | CRITANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| STREAMBANK WHEATGRASS | SODAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| BLUE FLAX             | LINUM PERENNE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Total                 | and a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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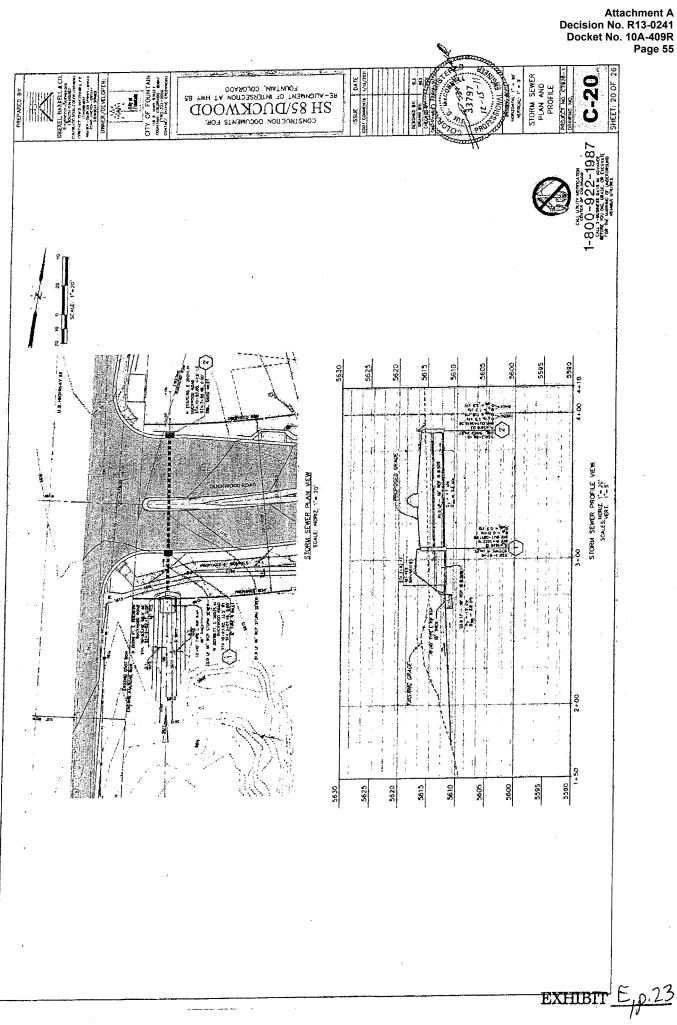
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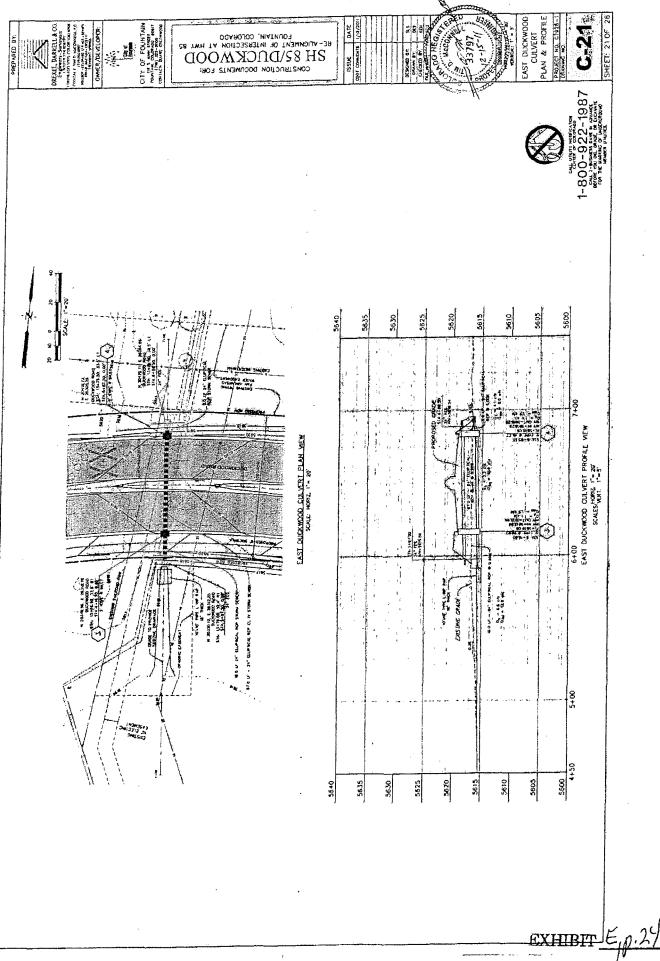
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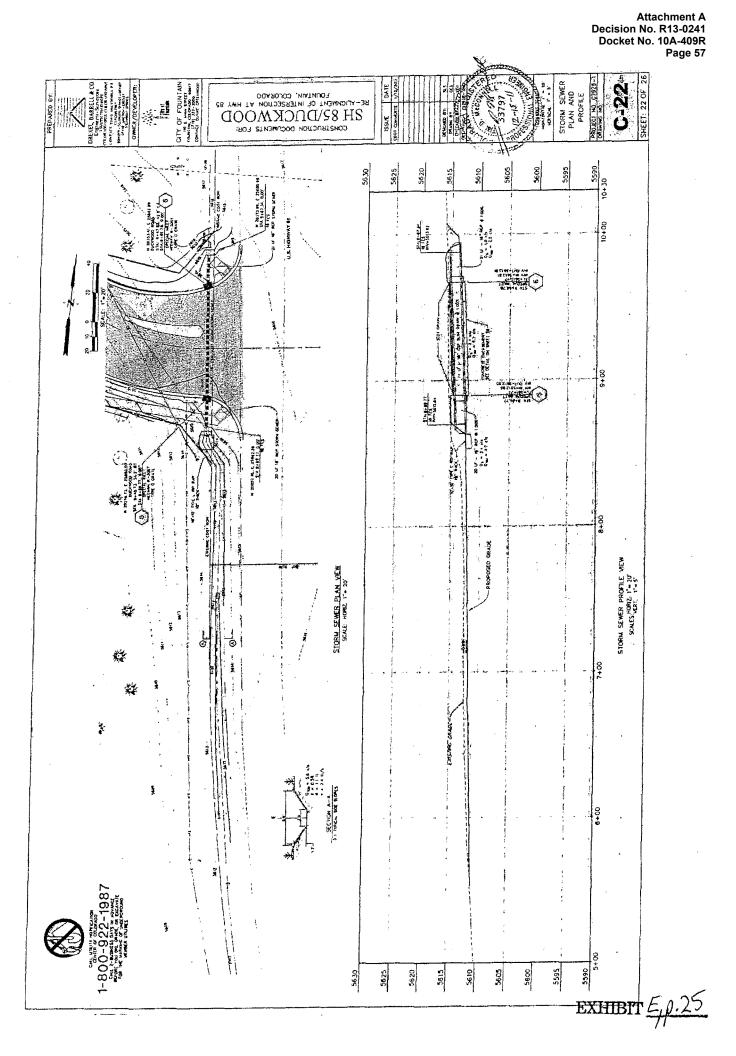
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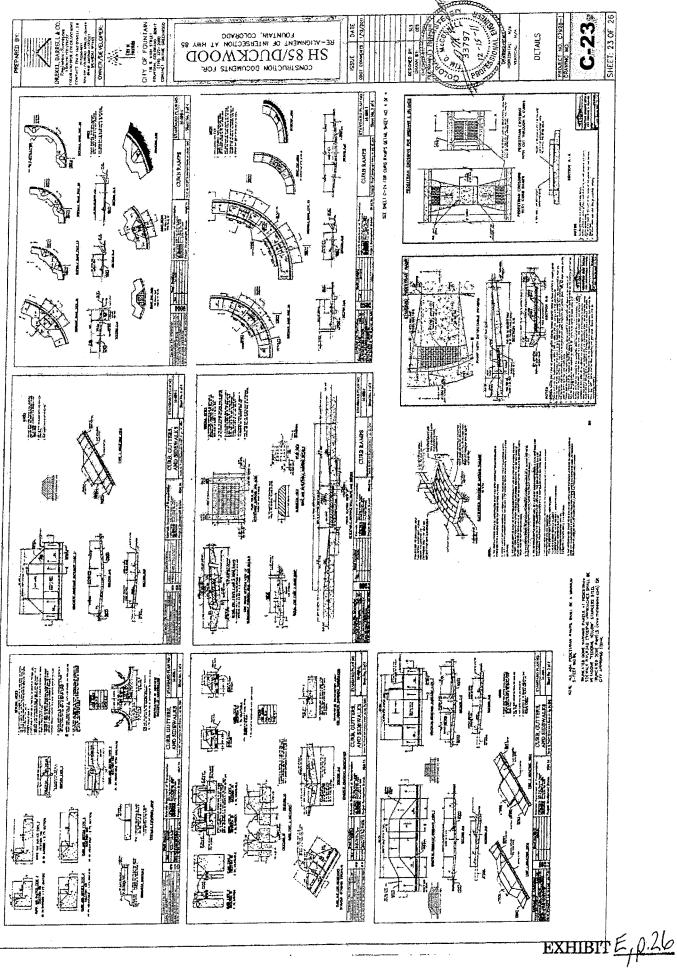
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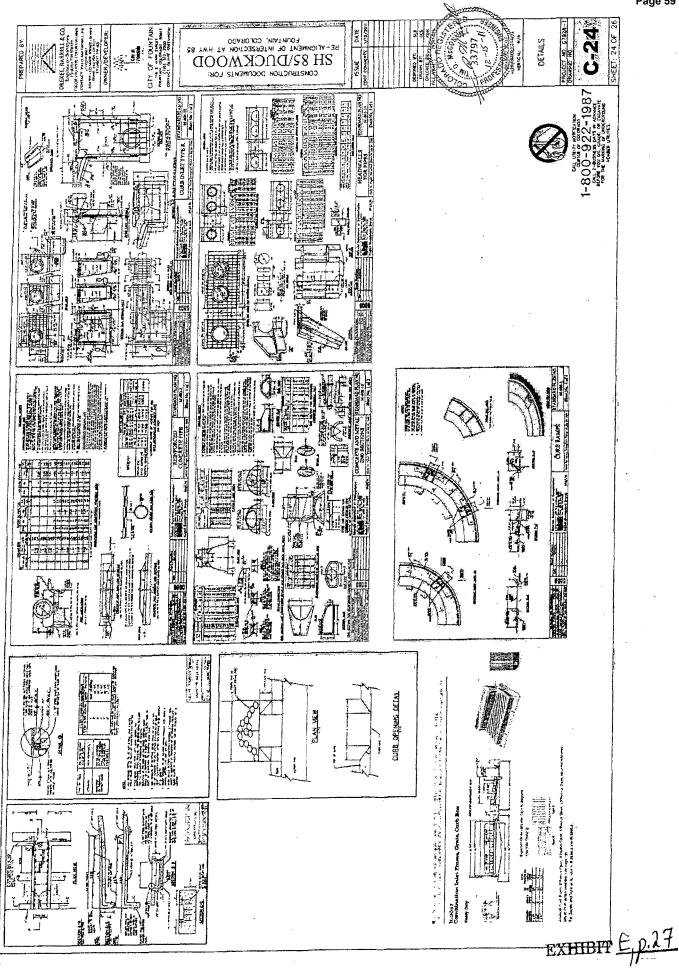
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| <u></u>                                                                                                                                                                                                                                                                     | <u> 52 ¢    </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | and for                                                             |                                                                       |       |
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| OUAN DTIE                                                                                                                                                                                                                                                                   | vcture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ection<br>Disposal<br>Disposal<br>Bar<br>PAID FOR /<br>PAID FOR /<br>SHOUT STR<br>NBUCET C WA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AALL -                                                              |                                                                       |       |
| RMWATER                                                                                                                                                                                                                                                                     | Description<br>Self Tencie<br>Creck Dan<br>Conck Dan<br>Concrete Wesh Cut Structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Storm Decin Intel Protection<br>Statistical Construction Environment<br>Sediment Removal and Disposal<br>Evaluation Control Supervise<br>Seeting (Notion)<br>Multering (Need Tree Huy)<br>Multering (Need Tree Huy)<br>Soll Retion, Bitminet (Speec)<br>Soll Retion, Bitminet (Speec)<br>Soll Retion, Bitminet (Speec)<br>Multering (Need Tree Huy)<br>Multering (Speec)<br>Multering (Speec)<br>Soll Retion, Bitminet (Speec)<br>Soll Retion, Bitmine | SEEDED AR                                                           |                                                                       | ۰.    |
| N OF SIC                                                                                                                                                                                                                                                                    | Poy Description<br>19en Description<br>208 Sal Fance<br>208 Check Dom<br>208 Concrete W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 208         Storm Dool hild Projection           208         Storemeted Construction Enforces           206         Storemeted Construction Enforces           207         Storemeted Construction Enforces           203         Enterior Controp Supervised           213         Wuterhior (Weating)           213         Wuterhior Stread           213         Wuterhior Stread           214         Scale Retion Bitterket (Specc)           215         Scale Retion Bitterket (Specc)           216         Scale Retion Distructed           217         Storemeter           218         Storemeter           219         Scale Retion Bitterket (Specc)           211         IS ESTIMATED           211         IS ESTIMATED           211         IS ESTIMATED           212         Storemeter           213         Muterhiot Concreater           214         Distreater         Interview Concreater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NANCE OF                                                            |                                                                       |       |
| 11. IABULATION OF STORMWATER OUANDIES                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BMP M CONTR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A MAINT<br>WORK                                                     |                                                                       |       |
| 5                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IKET<br>ARE<br>BE<br>AS<br>AS<br>TTED<br>HALL<br>EEDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     | er fan de server en de server de                                      |       |
| Y PER ACR                                                                                                                                                                                                                                                                   | JLCH TACKIF<br>: AND/OR<br>: AND/OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T, THE BLANKET<br>R BLANKET<br>T HE EROSION<br>ROSION BARE<br>TC., SHALL BE<br>TT, SHALL BE<br>TT, APPLED AS<br>TO CRAINATED<br>D. WORK SHALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                                                                       |       |
| E THE RAT                                                                                                                                                                                                                                                                   | THE SOLE IN COMBINATION WITH AN ORGANIC MULCH TA<br>DUE TO HICH FAILURE RATES, HYDROMULCHING AND/C<br>LLOWED.<br>LEDWED.<br>YRTILIZER REQUIREMENTS:<br>ARATION SPECIFICATION FOR THE APPLIED FERTILIZER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul> <li>A BLANKE</li> <li>SWAP FOI</li> <li>ECTIONS B</li> <li>FECTIONS B</li> <li>FECTIONS B</li> <li>COR BLANKE</li> <li>COR BLANKE</li> <li>COR BLANKE</li> <li>COR BLANKE</li> <li>COR BLANKE</li> <li>FOR MOD FOI</li> <li>A MOD FOI</li> <li>A MOD TO</li> <li>A MOD TO</li> <li>A MOD TO</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | JON 208.061                                                         |                                                                       |       |
| T AT DOUBI<br>ERTIFIED WE                                                                                                                                                                                                                                                   | N WITH AN<br>RATES, HYD<br>S:<br>FOR THE' A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S REQUIRING<br>CALIFIER, SE<br>CALIFIER, SE<br>IN DAY INS<br>BY SURFACE<br>BY SURFACE<br>BY SURFACE<br>BY SURFER<br>ONE SEAS<br>ANE SEAS<br>ANE SEAS<br>CR FLANI<br>CH TACKFIER<br>CH TACKFIER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TH SUBSECT                                                          |                                                                       |       |
| I BRUADCAS<br>IONS OF C                                                                                                                                                                                                                                                     | LUMBINA INU<br>SH FAILURE<br>EQUIREMENT<br>ECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AND DITCHE<br>MULCH TAT<br>STABILIZAT<br>STABILIZAT<br>STABILIZAT<br>STABILIZAT<br>ATEL ATEL<br>ATEL ATEL<br>ATEL ATEL<br>HI TACKIFIET<br>STATECCATECC<br>HI TACKIFIET<br>STATECCATECCA<br>HI TACKIFIET<br>STATECCATECCA<br>HI TACKIFIET<br>STATECCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | JRDANCE W                                                           |                                                                       |       |
| ымыц, намд<br>АРРЦҮ 1 ½<br>че сон м                                                                                                                                                                                                                                         | HE SOL IN<br>DUE TO HIC<br>LOWED.<br>LOWED.<br>ERTILIZER RI<br>ARATION SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MULCH AND<br>MULCH AND<br>CORRECTIVE<br>CORRECTIVE<br>REVIEWED (<br>REVIEWED (<br>ACE OR GUL<br>AND HULC<br>AND MULC<br>PANDAULC<br>PANDAULC<br>PANDAULC<br>AND MULC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BE IN ACCC                                                          |                                                                       |       |
| NTO SOL                                                                                                                                                                                                                                                                     | IREMENTS:<br>NOT BE A.<br>NING AND F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UCATION:<br>IN LIEU OF<br>PERATONS/<br>CCEPTANCE.<br>CCEPTANCE.<br>S SHALL BE<br>ERVISOR F D<br>B BY SHALL<br>SEED, MULCI<br>BY THE API<br>RBICIDE TO<br>REDIDE TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NVCE SHALL                                                          |                                                                       |       |
| WEAS NOT ACCESSIBLE TO A DRILL, MAND BROADCAST AT DOUBLE THE RATE AND RAKE O.<br>NGH TO 0.5 INCH INTO SOIL.<br>C. MULCHING APPLICATION: APPLY 1 % TONS OF CERTIFED WEED FREE MAY PER ACRE<br>GEOMANICALLY CRIMEN INTO THE SCHI IN COMMING THAN UNTO ACCESSIBLE ANY PER ACRE | D SPECIAL REQUIREMENTS: DUE TO HIGH FALLURE RATES, HYDROMULCHING AND/<br>HYDROSEEDING WILL NOT BE ALLOWED.<br>E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:<br>1. REFER TO THE SOIL PREPARATION SPECIFICATION FOR THE APPLIED FERTILIZER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>F. BLANKET APPLICATION: ON SLOPES AND DITCHES REQUIRING A BLANKET, THE BLANKET LOCATIONS.</li> <li>F. BLANKET APPLICATION: ON SLOPES AND DITCHER. SEE SWAP FOR BLANKET LOCATIONS.</li> <li>G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION</li> <li>FRIOR TO FINAL ACCEPTANCE.</li> <li>G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION</li> <li>REDED AREAS SHALL BE REVIEWED DURING THE 14 DAY INSPECTIONS BY THE EROSION. BARE ACOURTOL SUPERVISOR FOR BARE SOLLS CAUSED BY SURFACE OR WIND EROSION. BARE AREAS CONTROL SUPERVISOR FOR BARE SOLLS CAUSED BY SURFACE OR WIND EROSION. BARE RECENTING.</li> <li>SEEDED AREAS SHALL BE REVIEWED DURING THE 14 DAY INSPECTIONS BY THE EROSION. BARE AREAS CONTROL SUPERVISOR FOR BARE SOLLS CAUSED BY SURFACE OR WIND EROSION. BARE RECENTED TO SURFACE OR GULLY EROSION, BLANKET) APPLIED AS REAS CONTROL SUPERVISOR FOR BARE SOLLS CAUSED BY SURFACE OR BLANKET) APPLIED AS REAS CAUSED BY SURFACE OR BLANKET) APPLIED AS THE ERONDERS AND THE RECHTER. ONE SEASON SHALL BE RECENSED.</li> <li>AREAS CUNSED STATION CONTACINATED AND MULCH TACKFIER (OR BLANKET) APPLIED AS THE ENDINE AND THAN BARE AS CAULARTING BY SHALL MANY REDING/MULCH/TACKFIER (OR BLANKET) APPLIED. WORK SHALL BE PAID FOR BY THE SEEDING/MULCH/TACKFIER, MOW TO CONTROL WEEDS ACCEPTANCE.</li> <li>APPLY HERBICIDE TO CONTROL WEEDS IN THE SEEDED ARE AS UNTIL FINAL BRION TO CONTROL WEEDS IN THE SEEDED ARE AS UNTIL FINAL.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A. FINAL ACCEPTANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.061. |                                                                       |       |
| C. MU                                                                                                                                                                                                                                                                       | D.<br>HYDROSSPI<br>T. RE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F. S. B. S. A.L. B. S. A.L. B. C. C. A.TO C. A.TO C. A.TO C. A. A. C. C. A. A. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                       | ~ ^   |
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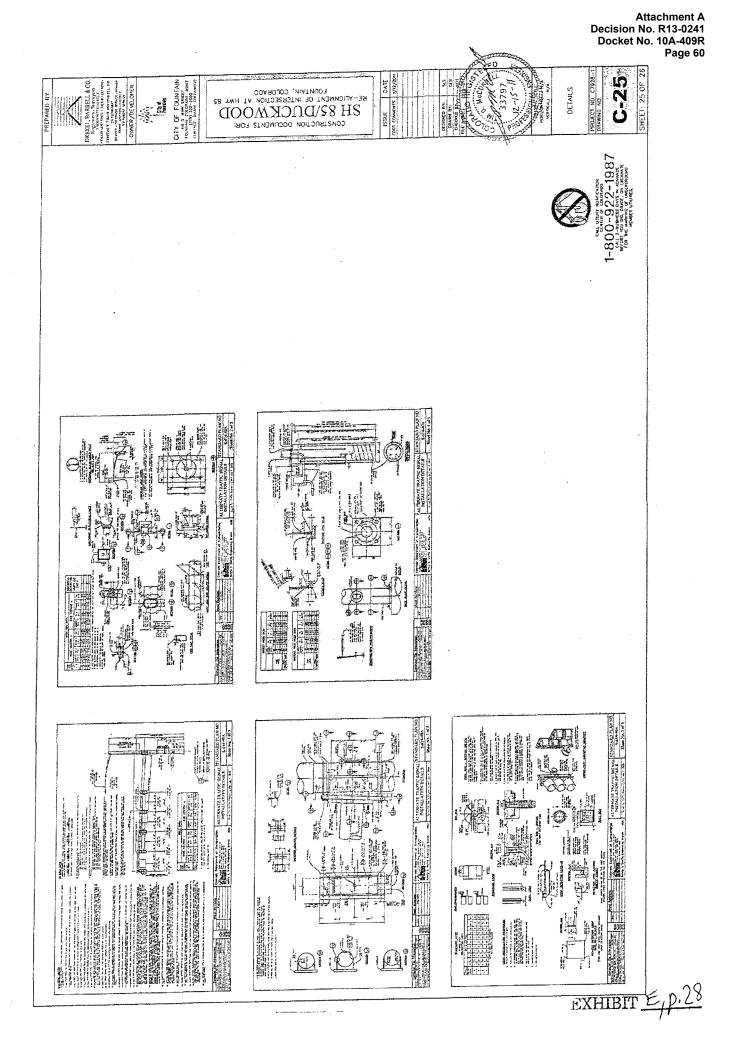


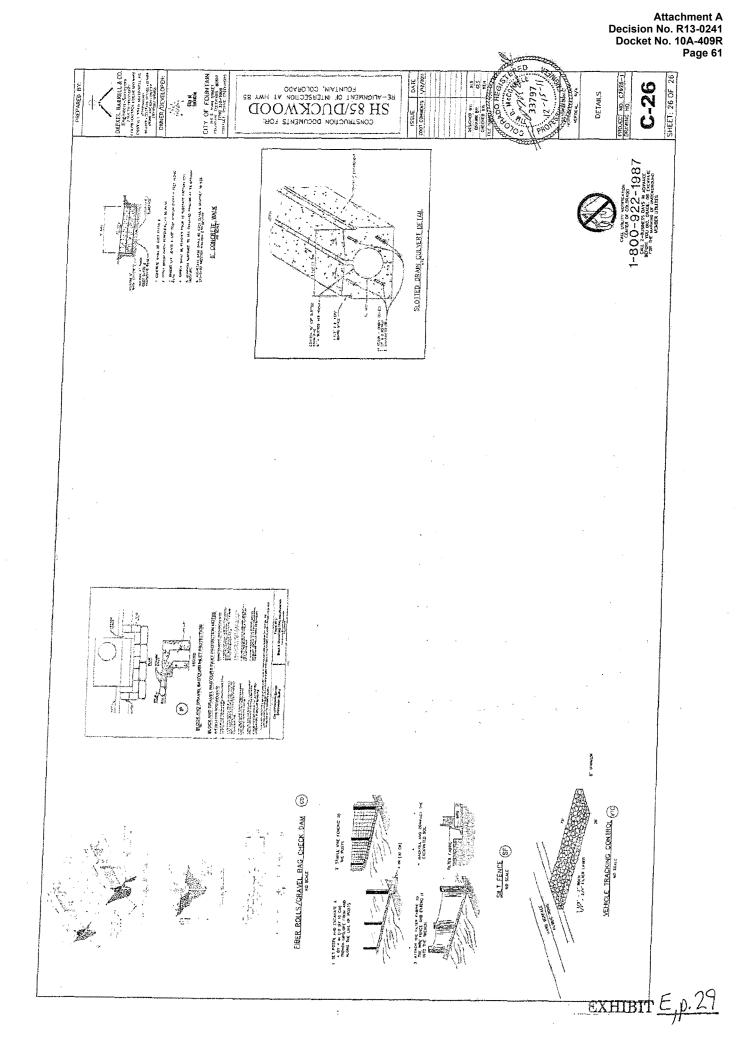












EXHIBIT

## EXHIBIT F Software and hardware details – Fountain and CDOT

Item 1: City and CDOT agree to use 412F Prom Module including 128KB memory and a front panel laptop computer cable interface (C40) rather than manual jumper selection toggle switches.

Item 2: Flashing Yellow Arrow signal will be controlled by utilizing the BiTran 233 Firmware

- CDOT is requesting the Wapiti W4KIS HC11 to be replaced by MC 233. MC 233 is the McCain BiTran firmware (chip) in the local 170 controller. CDOT needs the City of Fountain to provide CDOT two spare MC 233 chips as well. The MC 233 has all the necessary logic to implement the Gate Down, Health Circuit and Flashing Yellow arrow as well as the normal railroad preemption and signal operations. This would allow the proper functionality and maintenance purposes.
- CDOT also needs licenses for 10 QuicLoad installs. QuicLoad is the McCain BiTran software that is only an upload /download program that communicates locally via a cable connected to the PC and the 170E controller directly.
- CDOT requires 2 cables (\$70 each) for connecting the laptops to 170E controller. The cables are to be left in the intersection cabinet for the purpose of on street connectivity.

Item 3: The parties shall use Model 242-DC Railroad Preemption Isolator Cards for interconnection between the CDOT Traffic Signal Controller and the UPRR Crossing Signal Controller, as specified on Plan Sheet C-10.