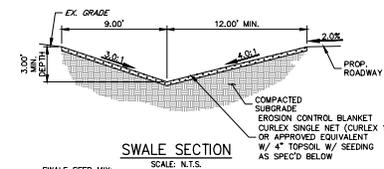


SWALE SEED MIX:  
 EROSION CONTROL BLANKET WITH PAMNEE BUTTES SEED INC. - "LOW GROW NATIVE MIX"  
 - IDAHO FESCUE  
 - SANDBERG BLUEGRASS  
 - ROCKY MOUNTAIN FESCUE  
 - BIG BLUEGRASS



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 - ROCKY MOUNTAIN FESCUE  
 - BIG BLUEGRASS

**ROADSIDE SWALE NOTES**

- SWALE SECTION A-A PROVIDES MINIMUM SWALE DIMENSIONS. IN AREAS WHERE 3:1 TIE BACK TO EXISTING DOES NOT PROVIDE MINIMUM SWALE DEPTH, SWALE TO BE CUT DEEPER SUCH THAT 3' DEPTH IS PROVIDED RELATIVE TO EXISTING GRADE.
- SWALE SECTION B-B TO BE USED IN FILL AREAS OF ROADWAY WHERE CUTTING SWALE DEEPER TO ACHIEVE 3:0' DEPTH RELATIVE TO EXISTING GRADE CAN NOT BE ACHIEVED DUE TO DOWN STREAM GRADE REQUIREMENTS. 2.0' BERM MUST BE PROVIDED TO MITIGATE FUTURE EROSION.

**EARLY GRADING NOTES**

- NO PAVEMENT SHOWN IN THE ABOVE ROAD SECTION SHALL BE PROPOSED WITH ANY EARLY GRADING IMPROVEMENTS.
- ALL PROPOSED TEMPORARY CULVERTS SHALL BE 18" CMP. TEMPORARY CULVERT LOCATIONS CAN BE FOUND ON SHEET 5.
- ALL TEMPORARY SWALE CONNECTIONS SHALL MATCH FUTURE CULVERT GRASSES. TEMPORARY SWALE CONNECTION LOCATIONS CAN BE FOUND ON SHEET 5.
- ALL INITIAL BMPs SHALL BE INSTALLED PRIOR TO ANY GRADING ONSITE.
- ALL CHECK DAMS AND INLET/OUTLET PROTECTIONS SHALL BE INSTALLED AND MAINTAINED UNTIL 70% VEGETATION HAS BEEN ACHIEVED AND REMOVAL IS APPROVED BY EPC.
- NO GRADING IMPROVEMENTS SHALL BE PERFORMED WITHIN THE CURBED ROAD ROW AS PART OF THE EARLY GRADING IMPROVEMENTS FOR THIS SITE.



**ENGINEER'S STATEMENT**

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
 Bryan T. Law  
 BRYAN T. LAW, P.E.  
 COLORADO P.E. 25043  
 FOR AND ON BEHALF OF JR ENGINEERING, LLC

8/25/23  
 DATE

UNTIL SUCH TIME AS THE APPROPRIATE REVIEWING AGENCIES APPROVE THEIR USE. THIS IS NOT A CONSTRUCTION AUTHORIZATION.

PREPARED FOR  
 RO PROPERTY GROUP, LLC  
 2495 RIGDON STREET  
 NAPA, CALIFORNIA  
 94957-3600  
 BRADY WILLIAMS

**JR ENGINEERING**  
 A Valmont Company  
 Central 303-742-6588 • Colorado Springs 719-599-2938  
 For Color 970-691-9988 • www.jrengineering.com

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1" = 5'	N/A	8/25/23	SWW	SWW	

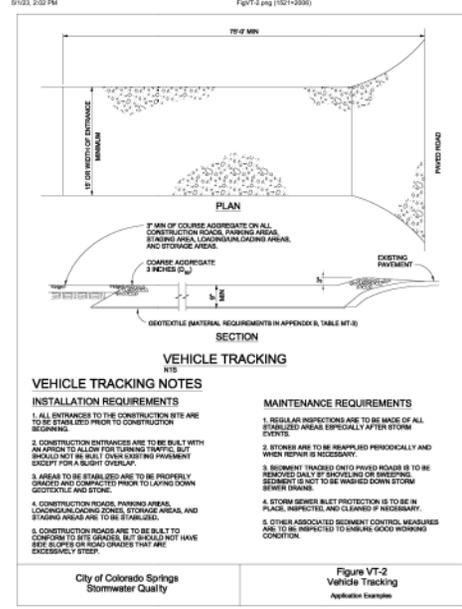
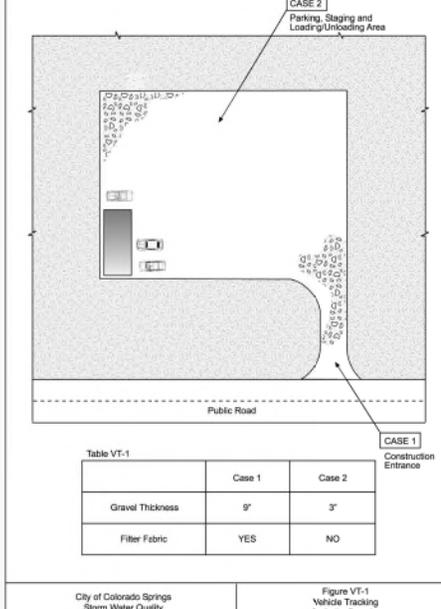
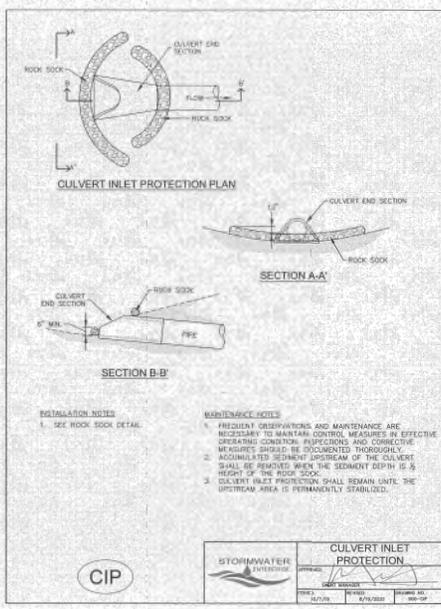
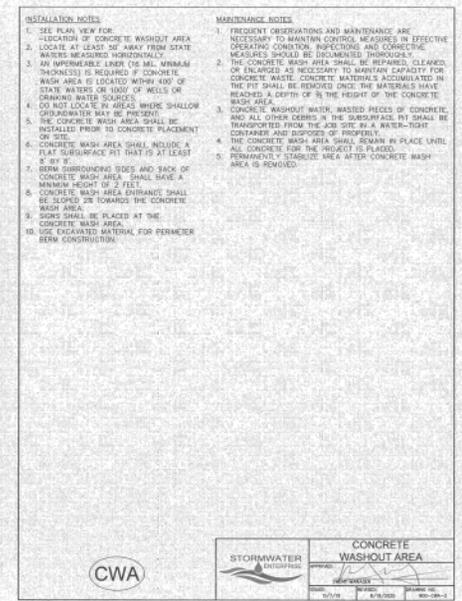
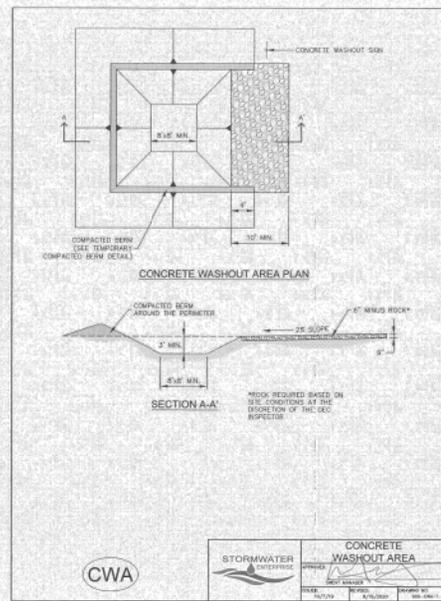
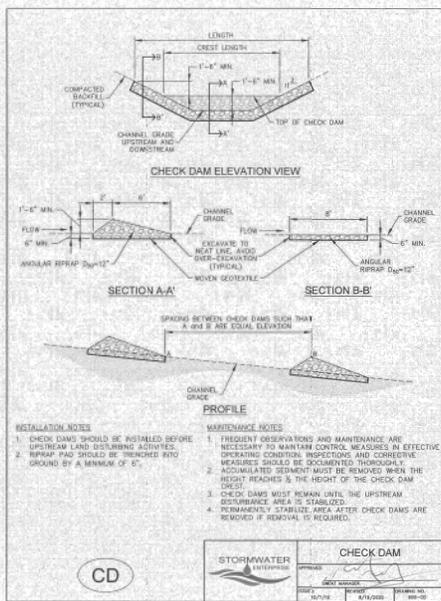
SADDLEHORN RANCH -  
 FILING 5  
 TYPICAL SECTIONS

SHEET 3 OF 9  
 JOB NO. 25142.07









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UNLIT SUCH TIME AS APPROVED BY THE APPROPRIATE AGENCIES FOR THE REVIEWING APPROVES THEIR USE. THIS PLAN IS FOR THE PURPOSES OF THE PERMIT AUTHORIZATION.

PREPARED FOR  
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FOR CALLS 970-691-9988 • www.jrengineering.com

BY	DATE	NO.	REVISION

**811**  
Know what's below.  
Call before you dig.

**ENGINEER'S STATEMENT**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

*[Signature]*  
BRYAN T. LAW, P.E.  
COLORADO P.E. 25043  
FOR AND ON BEHALF OF JR ENGINEERING, LLC

8/25/23  
DATE

**GRADING AND EROSION CONTROL PLANS - FILING 5**

**GRADING & EROSION CONTROL DETAILS**

SHEET 7 OF 9  
JOB NO. 25142.07



**Temporary Outlet Protection (TOP) EC-8**

**TEMPORARY OUTLET PROTECTION INSTALLATION NOTES**

1. SEE PLAN HERE FOR LOCATION OF OUTLET PROTECTION. DIMENSIONS OF OUTLET PROTECTION.
2. DETAIL IS INTENDED FOR PIPES WITH SLOPE < 10%. ADDITIONAL EVALUATION OF RIPRAP SIZE AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
3. TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

**TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES**

1. INSPECT BSHs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BSHs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BSHs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BSHs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED INDIVIDUALLY.
3. WHENEVER BSHs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

NOTE: MANY JURISDICTIONS HAVE BSH DETAILS THAT VARY FROM USDC STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

DETAILS ADAPTED FROM AUSTIN, COLORADO AND PREVIOUS VERSION OF VOLUME 2, NOT AVAILABLE IN AUTOCAD

November 2010 Urban Drainage and Flood Control District TOP-3  
Urban Storm Drainage Criteria Manual Volume 3

UNTIL SUCH TIME AS APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, THIS PLAN IS FOR THE PURPOSES OF OBTAINING PERMITS. IT IS NOT TO BE USED FOR ANY OTHER AUTHORIZATION.

PREPARED FOR  
**RO PROPERTY GROUP, LLC**  
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BY	DATE	NO. REVISION	H-SCALE	V-SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
			N/A	N/A	B/25/23	SWW	SWW



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 BRYAN T. LAW, P.E.  
 COLORADO P.E. 25043  
 FOR AND ON BEHALF OF JR ENGINEERING, LLC

8/25/23  
 DATE



GRADING AND EROSION CONTROL PLANS - FILING 5	
GRADING & EROSION CONTROL DETAILS	
SHEET 9 OF 9	
JOB NO. 25142.07	