

COUNTY OF EL PASO, STATE OF COLORADO
GRADING AND EROSION CONTROL PLANS
DECEMBER 2021

Reviewed by:
Glenn Reese, P.E.
Stormwater Engineer II
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719-675-2654

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS, ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQOP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQOP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEO PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING INC. ON JULY 202 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

[illegible]

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - 3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - 3.2. CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - 3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION
 - 3.4. CDOT M&S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
11. SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.
12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
13. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
14. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

OWNER/DEVELOPER: SR LAND, LLC
20 BOULDER CRESCENT, SUITE 201
COLORADO SPRINGS, CO 80903
JAMES F. MORLEY (719) 471-1742

CIVIL ENGINEER: JR ENGINEERING, LLC
5475 TECH CENTER DRIVE
COLORADO SPRINGS, CO 80919
MIKE BRAMLETT P.E. (303) 267-6240

COUNTY ENGINEERING: EL PASO COUNTY PLANNING
AND COMMUNITY DEVELOPMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
JEFF RICE, P.E. (719) 520-6300

TRAFFIC ENGINEERING: EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS
3275 AKERS DRIVE
COLORADO SPRINGS, CO 80922
JENNIFER IRVINE, P.E. (719) 520-6460

WATER RESOURCES: STERLING RANCH METRO DISTRICT ENGINEERS
JDS-HYDRO CONSULTANTS
545 E. PIKES PEAK AVE., SUITE 300
COLORADO SPRINGS, CO 80903
JOHN MCGINN (719) 668-8769

FIRE DISTRICT: BLACK FOREST FIRE PROTECTION DISTRICT
11445 TEACHOUT ROAD
COLORADO SPRINGS, CO 80908
CHIEF BRYAN JACK (719) 495-4300

GAS DEPARTMENT: COLORADO SPRINGS UTILITIES
7710 DURANT DR.
COLORADO SPRINGS, CO 80947
TIM WENDT (719) 668-3556

ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC
11140 E. WOODMEN ROAD
FALCON, CO 80831
(719) 495-2283

COMMUNICATIONS: QWEST COMMUNICATIONS
(U.N.C.C. LOCATORS) (800) 922-1987
AT&T (LOCATORS) (719) 635-3674

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.

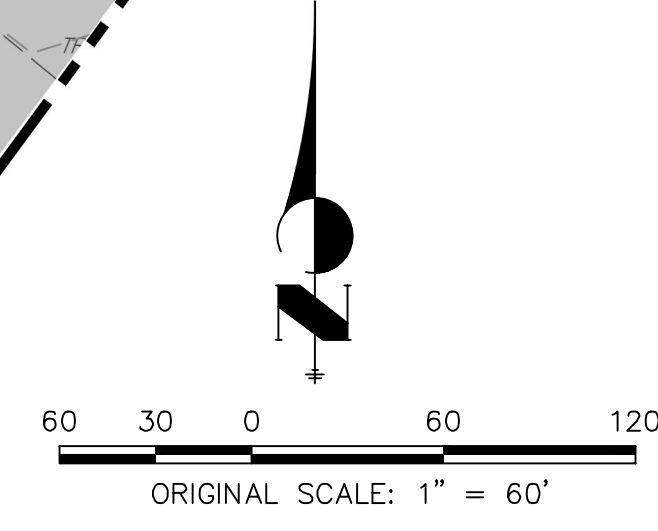
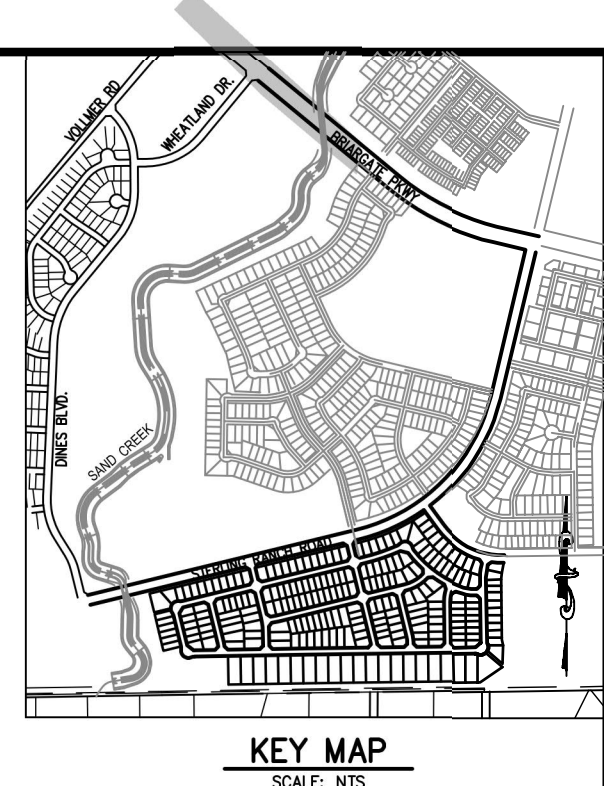
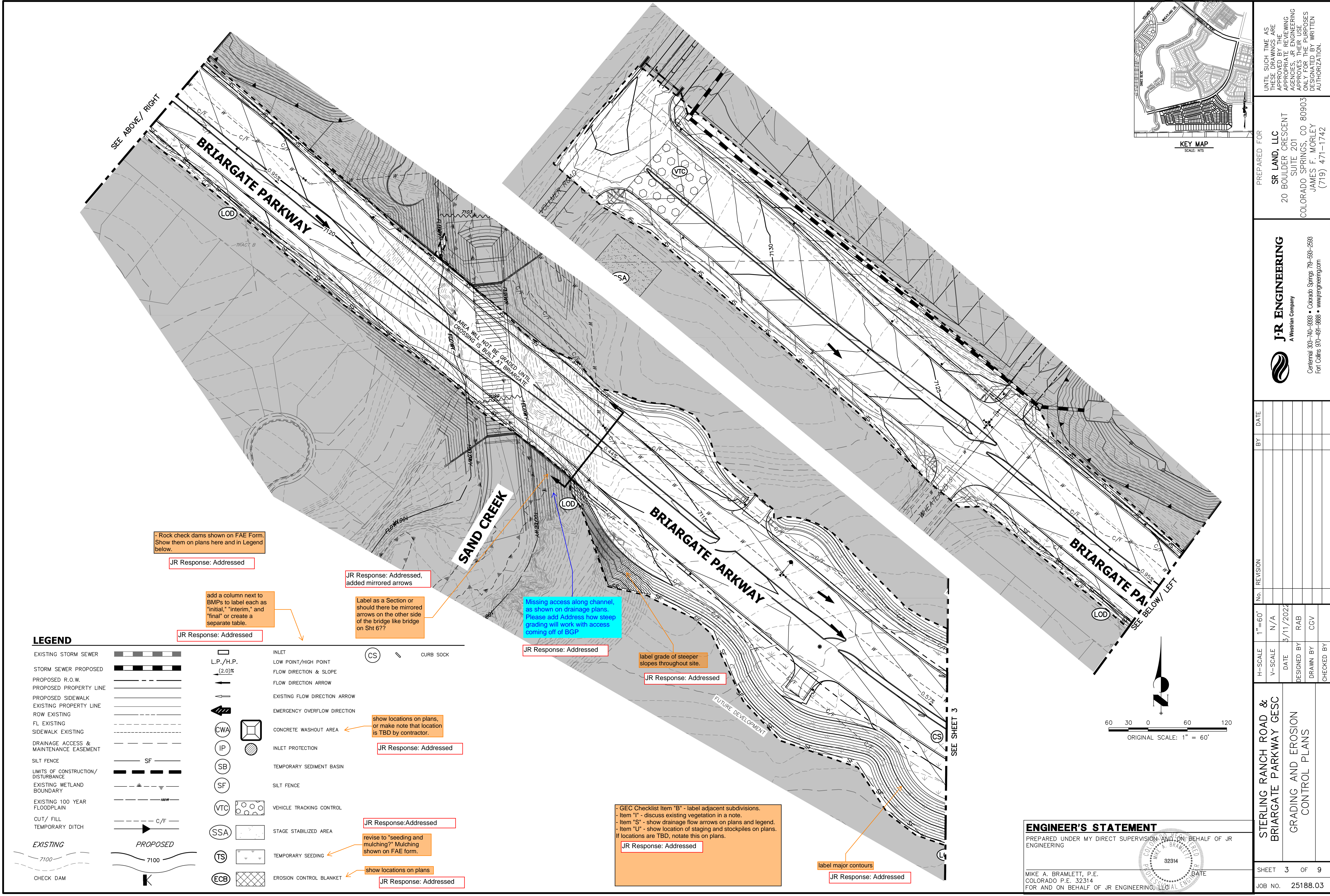
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF

FOR AND ON BEHALF OF JR ENGINEERING, LLC

JO

J·R ENGINEERING
A Westrian Company

Central 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com



LEGEND			
EXISTING STORM SEWER		INLET	
STORM SEWER PROPOSED		LOW POINT/HIGH POINT	
PROPOSED R.O.W.		FLOW DIRECTION & SLOPE	
PROPOSED PROPERTY LINE		FLOW DIRECTION ARROW	
PROPOSED SIDEWALK		EXISTING FLOW DIRECTION ARROW	
EXISTING PROPERTY LINE		EMERGENCY OVERFLOW DIRECTION	
ROW EXISTING		CONCRETE WASHOUT AREA	
FL EXISTING		INLET PROTECTION	
SIDEWALK EXISTING		TEMPORARY SEDIMENT BASIN	
DRAINAGE ACCESS & MAINTENANCE EASEMENT		SILT FENCE	
SILT FENCE		VEHICLE TRACKING CONTROL	
LIMITS OF CONSTRUCTION/DISTURBANCE		STAGE STABILIZED AREA	
EXISTING WETLAND BOUNDARY		TEMPORARY SEEDING	
EXISTING 100 YEAR FLOODPLAIN		EROSION CONTROL BLANKET	
CUT/ FILL			
TEMPORARY DITCH			
EXISTING			
PROPOSED			
CHECK DAM			

- Rock check dams shown on FAE Form. Show them on plans here and in Legend below.

JR Response: Addressed

add a column next to BMPs to label each as "initial," "interim," and "final" or create a separate table.

JR Response: Addressed

JR Response: Addressed, added mirrored arrows

Label as a Section or should there be mirrored arrows on the other side of the bridge like bridge on Sht 6??

Missing access along channel, as shown on drainage plans. Please add Address how steep grading will work with access coming off of BGP

JR Response: Addressed

label grade of steeper slopes throughout site.

JR Response: Addressed

show locations on plans, or make note that location is TBD by contractor.

JR Response: Addressed

JR Response:Addressed

revise to "seeding and mulching?" Mulching shown on FAE form.

show locations on plans

JR Response: Addressed

- GEC Checklist Item "B" - label adjacent subdivisions.
- Item "I" - discuss existing vegetation in a note.
- Item "S" - show drainage flow arrows on plans and legend.
- Item "U" - show location of staging and stockpiles on plans.
If locations are TBD, note this on plans.

JR Response: Addressed

label major contours

JR Response: Addressed

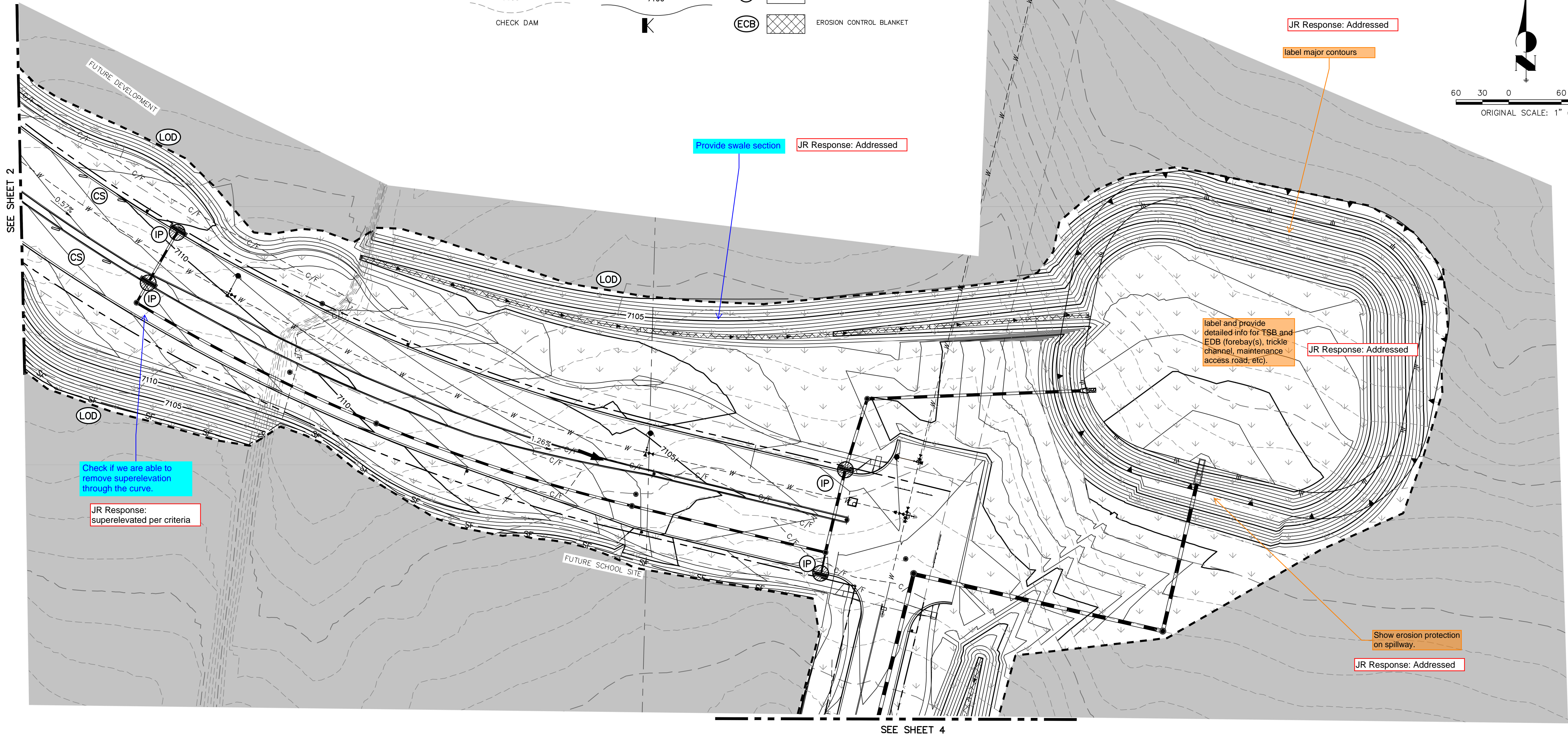
ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

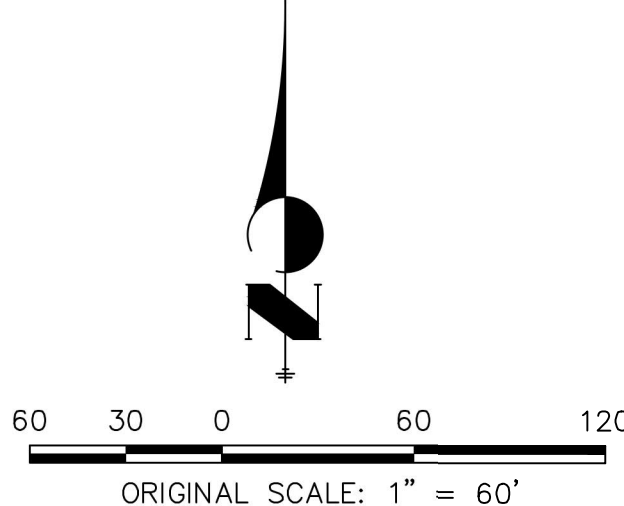
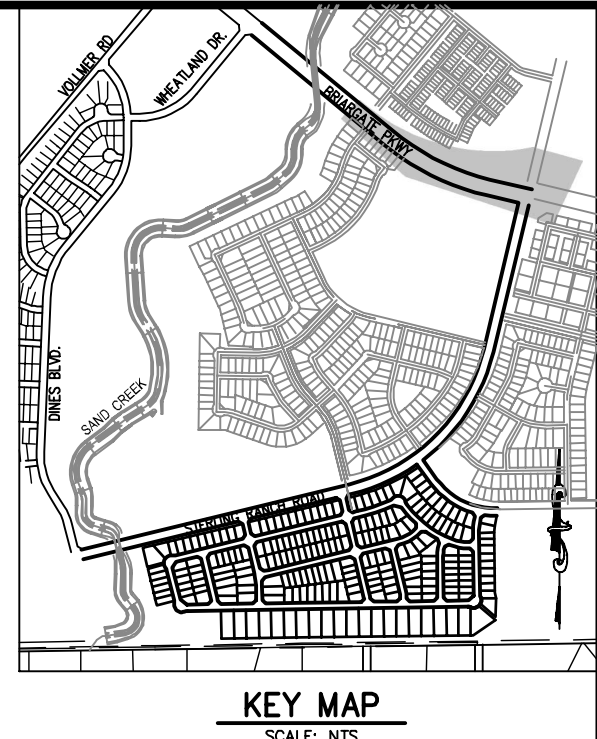
DATE

PREPARED FOR		SR LAND, LLC 20 BOULDER CRESCENT SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742		UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING ASSOCIATES, INC. ACCEPTS NO LIABILITY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.	
J-R ENGINEERING A Western Company		STERLING RANCH ROAD & BRIARGATE PARKWAY GESC		GRADING AND EROSION CONTROL PLANS	
BY	DATE	REVISION	No.	H-SCALE	1"=60'
				V-SCALE	N/A
				DATE	5/11/2022
				DESIGNED BY	RAB
				DRAWN BY	CGV
				CHECKED BY	
SHEET 3 OF 9		JOB NO. 25188.03			



LEGEND

EXISTING STORM SEWER		INLET	
STORM SEWER PROPOSED		LOW POINT/HIGH POINT	
PROPOSED R.O.W.		FLOW DIRECTION & SLOPE	
PROPOSED PROPERTY LINE		FLOW DIRECTION ARROW	
PROPOSED SIDEWALK		EXISTING FLOW DIRECTION ARROW	
EXISTING PROPERTY LINE		EMERGENCY OVERFLOW DIRECTION	
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EXISTING 100 YEAR FLOODPLAIN		EROSION CONTROL BLANKET	
CUT/ FILL			
TEMPORARY DITCH			
EXISTING			
PROPOSED			
CHECK DAM			



Check if we are able to remove superelevation through the curve.
JR Response: superelevated per criteria

Provide swale section
JR Response: Addressed

JR Response: Addressed

label major contours

label and provide detailed info for TSB and EDB (forebay(s), tickle channel, maintenance access road, etc).

JR Response: Addressed

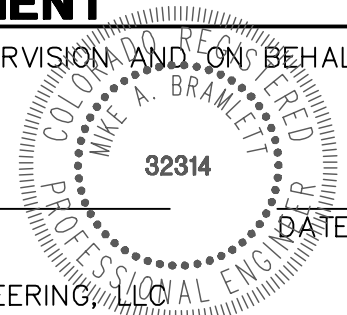
Show erosion protection on spillway.


JR Response: Addressed

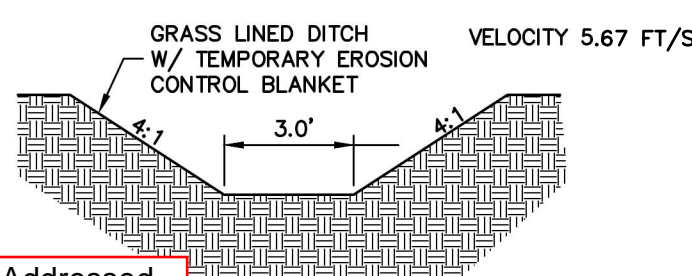
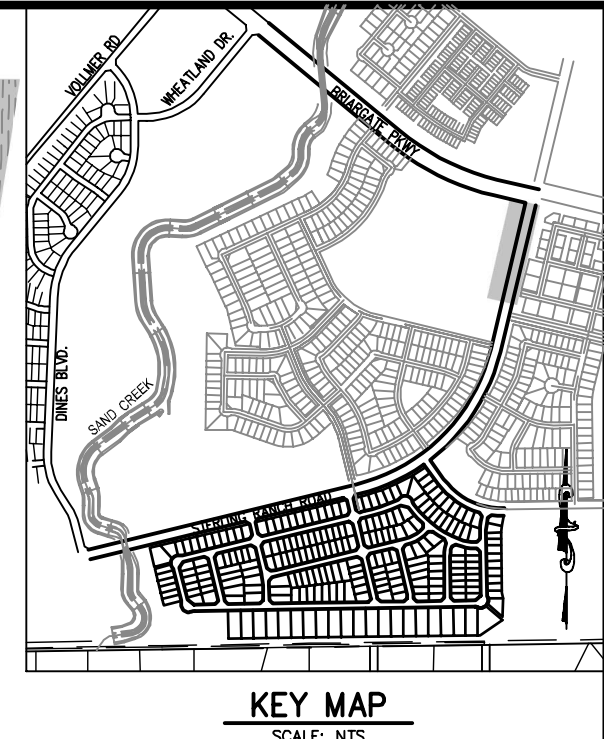
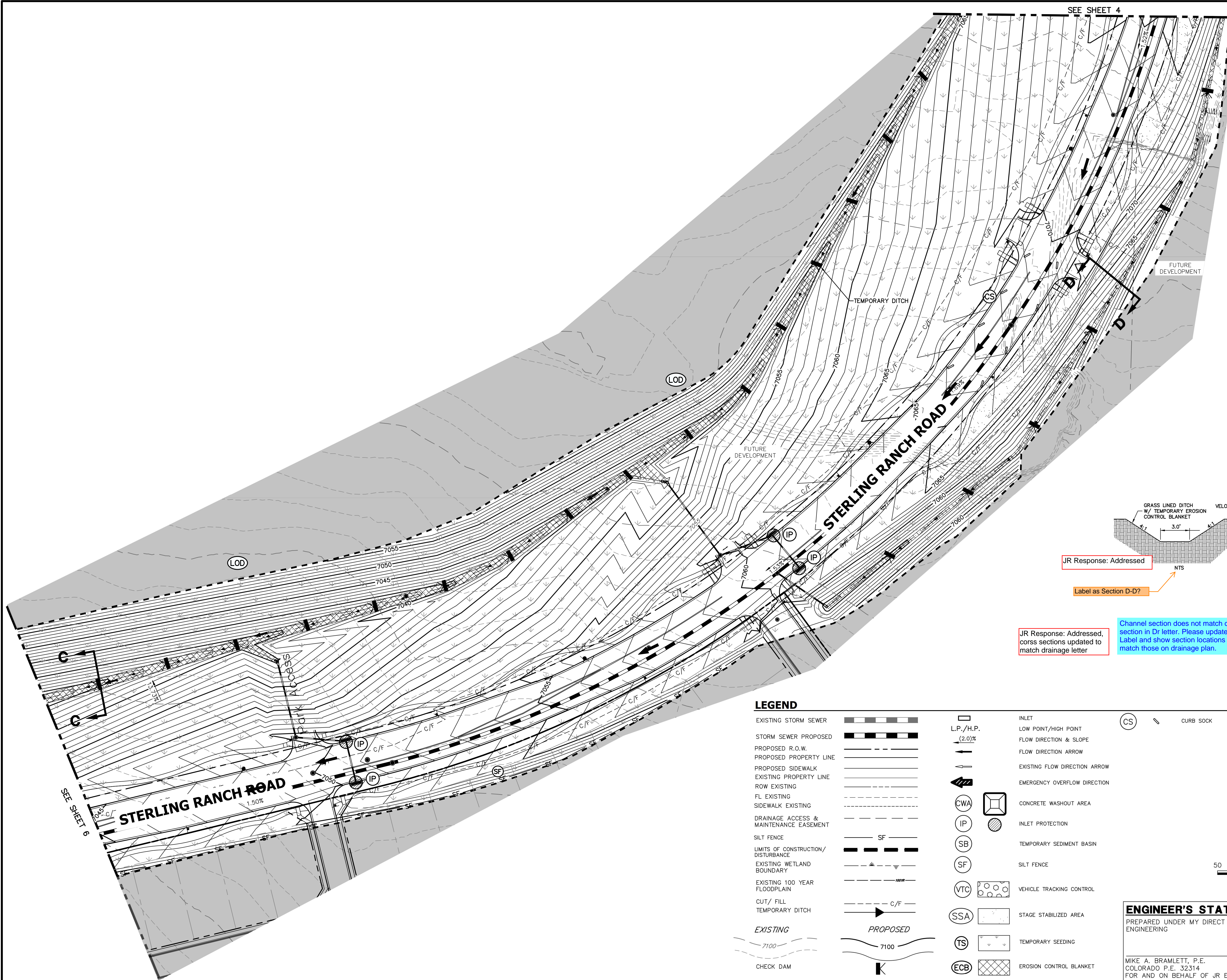
ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC



STERLING RANCH ROAD & BRIARGATE PARKWAY GESC		H-SCALE 1"=60'		No.	REVISION	BY	DATE	 J-R ENGINEERING A Westland Company		PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING WILL BE RESPONSIBLE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.
GRADING AND EROSION CONTROL PLANS		V-SCALE N/A									
		DATE 3/11/2022									
		DESIGNED BY RAB									
		DRAWN BY CGV									
		CHECKED BY									
SHEET 3 OF 9											
JOB NO. 25188.03											



JR Response: Addressed

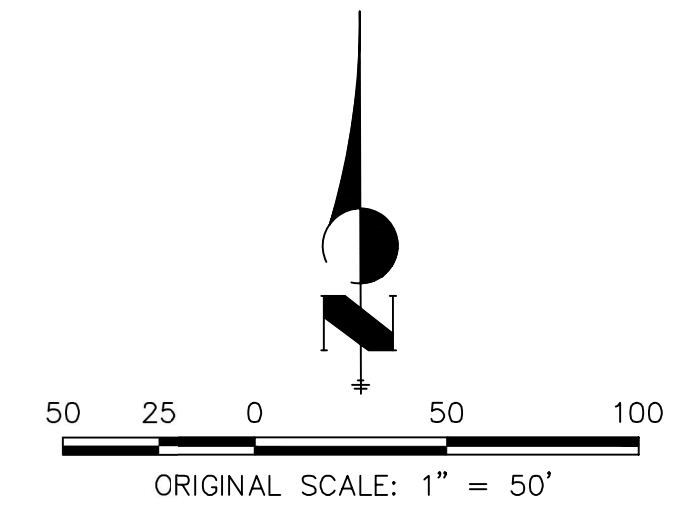
Label as Section D-D?

JR Response: Addressed, cross sections updated to match drainage letter

Channel section does not match design section in Dr letter. Please update Label and show section locations to match those on drainage plan.

LEGEND

EXISTING STORM SEWER		INLET	
STORM SEWER PROPOSED		LOW POINT/HIGH POINT	
PROPOSED R.O.W.		FLOW DIRECTION & SLOPE	
PROPOSED PROPERTY LINE		FLOW DIRECTION ARROW	
PROPOSED SIDEWALK		EXISTING FLOW DIRECTION ARROW	
EXISTING PROPERTY LINE		EMERGENCY OVERFLOW DIRECTION	
ROW EXISTING		CONCRETE WASHOUT AREA	
FL EXISTING		INLET PROTECTION	
SIDEWALK EXISTING		TEMPORARY SEDIMENT BASIN	
DRAINAGE ACCESS & MAINTENANCE EASEMENT		SILT FENCE	
SILT FENCE		VEHICLE TRACKING CONTROL	
LIMITS OF CONSTRUCTION/DISTURBANCE		STAGE STABILIZED AREA	
EXISTING WETLAND BOUNDARY		TEMPORARY SEEDING	
EXISTING 100 YEAR FLOODPLAIN		EROSION CONTROL BLANKET	
CUT/ FILL			
TEMPORARY DITCH			
EXISTING			
PROPOSED			
CHECK DAM			

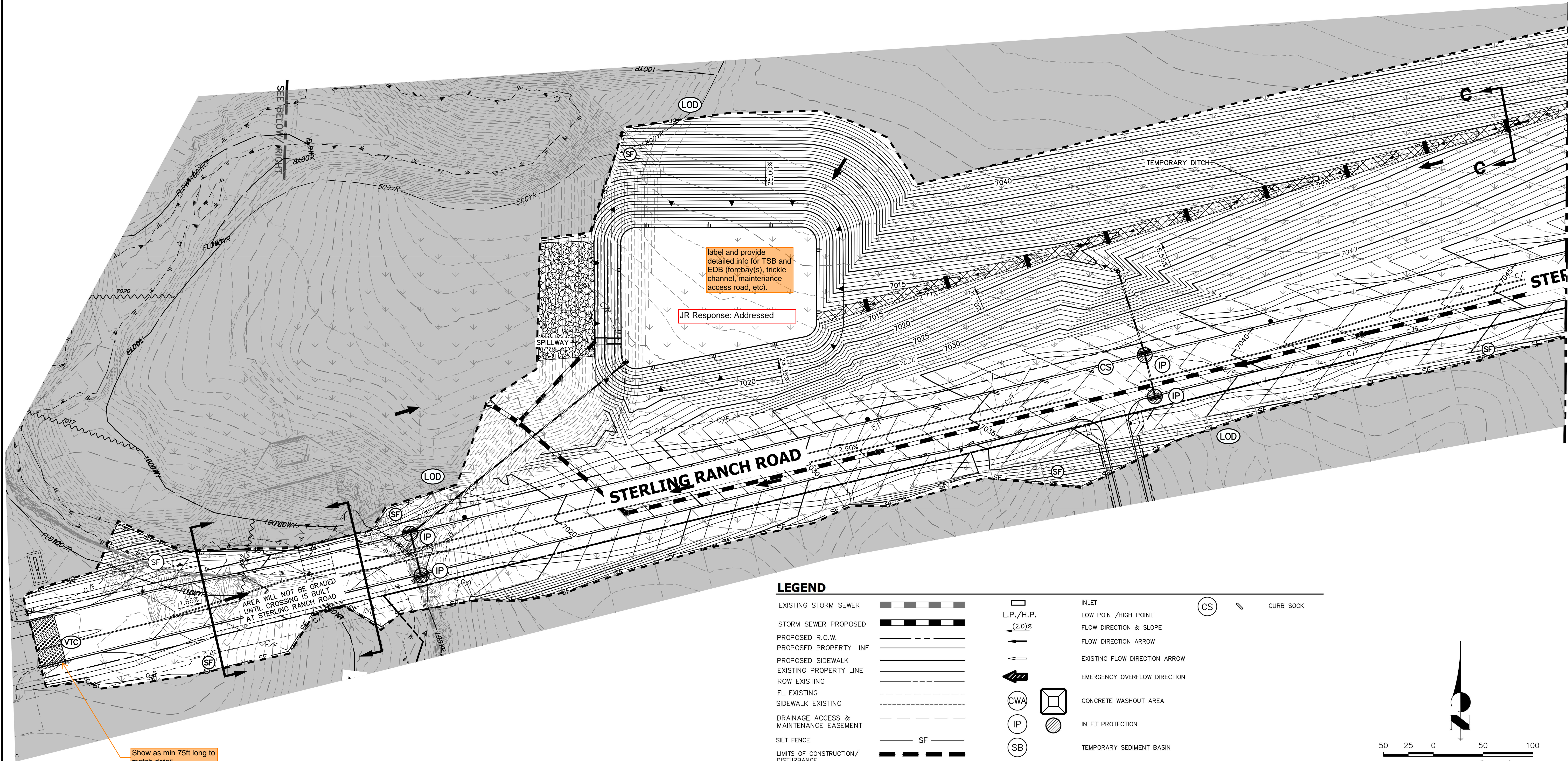


ENGINEER'S STATEMENT
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

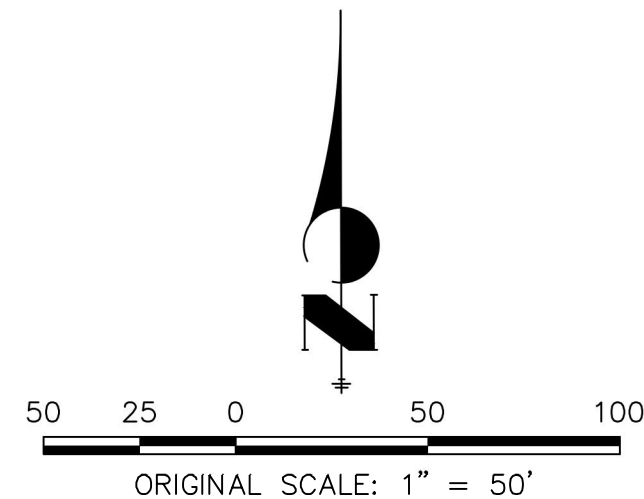
DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING ASSOCIATES, INC. IS NOT BEING USED FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.	PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742	J-R ENGINEERING A Western Company Centennial 303-740-9883 • Colorado Springs 719-593-2583 Fort Collins 970-491-9888 • www.jrengineering.com	BY	DATE	No.	REVISION	H-SCALE 1"=60'	V-SCALE N/A	DATE 5/11/2022	DESIGNED BY RAB	DRAWN BY CGV	CHECKED BY
STERLING RANCH ROAD & BRIARGATE PARKWAY GESC												
GRADING AND EROSION CONTROL PLANS												
SHEET 4 OF 9												
JOB NO. 25188.03												



LEGEND

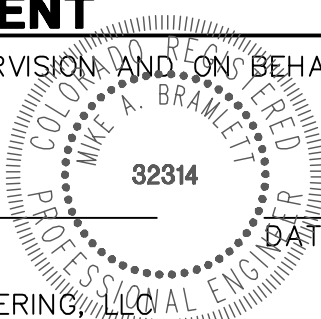
EXISTING STORM SEWER		INLET	
STORM SEWER PROPOSED		LOW POINT/HIGH POINT	
PROPOSED R.O.W.		FLOW DIRECTION & SLOPE	
PROPOSED PROPERTY LINE		FLOW DIRECTION ARROW	
PROPOSED SIDEWALK		EXISTING FLOW DIRECTION ARROW	
EXISTING PROPERTY LINE		EMERGENCY OVERFLOW DIRECTION	
ROW EXISTING		CONCRETE WASHOUT AREA	
FL EXISTING		INLET PROTECTION	
SIDEWALK EXISTING		TEMPORARY SEDIMENT BASIN	
DRAINAGE ACCESS & MAINTENANCE EASEMENT		SILT FENCE	
SILT FENCE		VEHICLE TRACKING CONTROL	
LIMITS OF CONSTRUCTION/DISTURBANCE		STAGE STABILIZED AREA	
EXISTING WETLAND BOUNDARY		TEMPORARY SEEDING	
EXISTING 100 YEAR FLOODPLAIN		EROSION CONTROL BLANKET	
CUT/ FILL			
TEMPORARY DITCH			
EXISTING			
PROPOSED			
CHECK DAM			



ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
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PREPARED FOR		SR LAND, LLC 20 BOULDER CRESCENT SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742	
J-R ENGINEERING A Western Company		STERLING RANCH ROAD & BRIARGATE PARKWAY GESC GRADING AND EROSION CONTROL PLANS	
BY	DATE	REVISION	
No.	1"=60'	H-SCALE	N/A
	V-SCALE	DATE	5/11/2022
	DESIGNED BY	RAB	
	DRAWN BY	CGV	
	CHECKED BY		
SHEET	6	OF	9
JOB NO.	25188.03		

ECB-1. PIPE OUTLET TO DRAINAGEWAY

The diagram for ECB-1 includes a plan view and several cross-sections. The plan view shows a pipe outlet (D) extending from a channel (M) through a staking pattern (P) to a subgrade (S). The pipe outlet is labeled "PERIMETER ANCHOR TRENCH, TYP." and the channel is labeled "JOINT ANCHOR TRENCH, TYP.". The staking pattern is labeled "STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING PATTERN DETAIL)". The subgrade is labeled "SUBGRADE". The pipe outlet is labeled "PIPE OUTLET". The channel is labeled "CHANNEL". The staking pattern is labeled "STAKING PATTERN". The subgrade is labeled "SUBGRADE".

The cross-sections show the pipe outlet (D) extending from the channel (M) through the staking pattern (P) to the subgrade (S). The pipe outlet is labeled "PERIMETER ANCHOR TRENCH, TYP." and the channel is labeled "JOINT ANCHOR TRENCH, TYP.". The staking pattern is labeled "STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING PATTERN DETAIL)". The subgrade is labeled "SUBGRADE". The pipe outlet is labeled "PIPE OUTLET". The channel is labeled "CHANNEL". The staking pattern is labeled "STAKING PATTERN". The subgrade is labeled "SUBGRADE".

ECB-2. SMALL DITCH OR DRAINAGEWAY

The diagram for ECB-2 includes a plan view and several cross-sections. The plan view shows a ditch (D) extending from a channel (M) through a staking pattern (P) to a subgrade (S). The ditch is labeled "PERIMETER ANCHOR TRENCH, TYP." and the channel is labeled "JOINT ANCHOR TRENCH, TYP.". The staking pattern is labeled "STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING PATTERN DETAIL)". The subgrade is labeled "SUBGRADE". The ditch is labeled "DITCH". The channel is labeled "CHANNEL". The staking pattern is labeled "STAKING PATTERN". The subgrade is labeled "SUBGRADE".

The cross-sections show the ditch (D) extending from the channel (M) through the staking pattern (P) to the subgrade (S). The ditch is labeled "PERIMETER ANCHOR TRENCH, TYP." and the channel is labeled "JOINT ANCHOR TRENCH, TYP.". The staking pattern is labeled "STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING PATTERN DETAIL)". The subgrade is labeled "SUBGRADE". The ditch is labeled "DITCH". The channel is labeled "CHANNEL". The staking pattern is labeled "STAKING PATTERN". The subgrade is labeled "SUBGRADE".

Rock Sock (RS) SC-5

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

RS-3

DIVERSION DITCH TYPICALLY AT TOP OF SLOPE

STAGGER OVERLAPS

OVERLAPPING JOINT

PERIMETER ANCHOR TRENCH

STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN TYPE (SEE STAKING PATTERN DETAIL)

ECB-3. OUTSIDE OF DRAINAGEWAY

PERIMETER ANCHOR TRENCH OR JOINT, TYP.

ROLL WIDTH W, TYP.

6' 3' 1/2 W

STRAW

6' 3' 1/2 W

STRAW-COCONUT

6' 3' 1/2 W

COCONUT OR EXCELSIOR

4' 1/2 W 2'

STAKING PATTERNS BY ECB TYPE

6' 3' 1/2 W

4-1-3-1 SLOPES

3-1-2-1 SLOPES

2-1 AND STEEPER SLOPES

4' 1/2 W 2'

LOW FLOW CHANNEL

HIGH FLOW CHANNEL

STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

EC-9 Rough Cut Street Control (RCS)

RCS

ROUGH CUT STREET CONTROL PLAN

SECTION A

SECTION B

FT (FT)	X (FT)
20-30	5
31-40	7
41-50	9
51-60	10.5
61-70	12

LONGITUDINAL STREET SLOPE (%)	SPACING (FT)
<2	NOT TYPICALLY NEEDED
2	200
3	200
4	150
5	100
6	50
7	25
8	25

November 2010

The drawing consists of three main parts: a detail of the riprap, an elevation view, and a profile view.

- Detail:** A small rectangular box at the top left shows a cross-section of the riprap with a central stone and smaller stones around it.
- SECTION A (Elevation View):**
 - Shows a trapezoidal cross-section of the check dam.
 - Labels include: LENGTH, L; CREST LENGTH, CL; SECTION A; TOP OF CHECK DAM; CHANNEL GRADE; EXCAVATION TO NEAT LINE, AVOID OVER-EXCAVATION, (TYP.); and COMPACTED BACKFILL (TYP.) on the left.
 - Dimensions: 1' 6" MIN. for the crest width, 1' 6" MIN. for the base width, and 2' and 6' for the crest and side slopes respectively.
 - Material specification: D50 = 12" RIPRAP, TYPE M OR TYPE L D50 = 9" (SEE TABLE MD-7, MAJOR DRAINAGE, VOL. 1 FOR GRADATION).
- SECTION B (Elevation View):**
 - Shows a trapezoidal cross-section of the check dam.
 - Labels include: CHANNEL GRADE; EXCAVATION TO NEAT LINE, AVOID OVER-EXCAVATION, (TYP.); and 1' MIN. for the base width.
 - Material specification: D50 = 12" RIPRAP, TYPE M OR TYPE L D50 = 9" (SEE TABLE MD-7, MAJOR DRAINAGE, VOL. 1 FOR GRADATION).
- PROFILE:**
 - Shows the side view of the check dam with a dashed line representing the channel grade.
 - Labels include: SPACING BETWEEN CHECK DAMS SUCH THAT A AND B ARE EQUAL ELEVATION; CHANNEL GRADE; and points A and B on the channel grade line.

CD-1. CHECK DAM

Rough Cut Street Control (RCS) **EC-9**

RCS-3

ROCK SOCK SECTION

1 1/2" (MINUS) CRUSHED ROCK ENCLOSED IN WIRE MESH

1" ON BEDROCK OR HARD SURFACE, 2" IN SOIL

GROUND SURFACE

WIRE TIE ENDS

ROCK SOCK PLAN

1 1/2" (MINUS) CRUSHED ROCK ENCLOSED IN WIRE MESH

4" TO 6" MAX AT CURBS, OTHERWISE 6" TO 10" DEPENDING ON EXPECTED SEDIMENT LOADS

ROCK SOCK JOINTING

12" 12"

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
-LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1 1/2" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAUGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

GRADATION TABLE

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
NO. 4	
2"	100
1 1/2"	90 - 100
1"	20 - 55
3/4"	0 - 15
3/8"	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE. PER ACHSHEET M4.3, ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

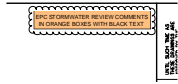
Item Z. Include details for the following BMP's.
Examples of acceptable details for each are provided:

	Detail # and Source				
BMP	ECM (Appendix F)	DCM (Vol 2, Chap 3.3)	MHFD (USDCM Vol 3: Chap 7)	COS - Stormwater Construction Manual [App E]	CDOT Standard Plans on M-208 1
Inlet Protection	SD-3-60 (sandbags at drop inlet and gutter upstream of inlet) SD-3-86 (for steep slope above inlet)	IP-1 (SF at drop inlet), IP-2 (straw bale at drop inlet) IP-3 (rock socks or blocks around inlet), IP-4 (rock socks in upstream gutter)	SC-6 (RS & blocks around curb and drop inlets, rock socks at culverts, SF & straw at drop inlets)	X	X
Sediment Basin		SB-1, SB-2	SC-7	X	

STERLING RANCH ROAD & BRIARGATE PARKWAY GESC		H-SCALE	1"=XX'	No.	REVISION	BY	DATE
		V-SCALE	1"=X'				
DETAIL SHEETS		DATE					
		DESIGNED BY		XXX			
		DRAWN BY		XXX			
		CHECKED BY					
SHEET	9	OF	9				
JOB NO.	25188.03						

GEC_V2.pdf Markup Summary

CDurham (27)



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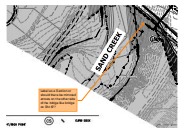


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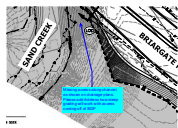
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Page Label: [2] 2 GR_01 SRR and BGP - GESC (1a)
Author: CDurham
Date: 4/11/2022 3:17:03 PM
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- Rock check dams shown on FAE Form. Show them on plans here and in Legend below.



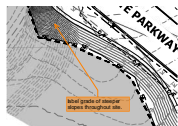
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Label as a Section or should there be mirrored arrows on the other side of the bridge like bridge on Sht 6??



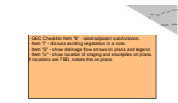
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Missing access along channel, as shown on drainage plans. Please add Address how steep grading will work with access coming off of BGP



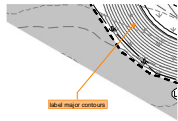
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Date: 4/11/2022 3:18:02 PM
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label grade of steeper slopes throughout site.



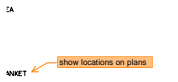
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- GEC Checklist Item "B" - label adjacent subdivisions.
- Item "I" - discuss existing vegetation in a note.
- Item "S" - show drainage flow arrows on plans and legend.
- Item "U" - show location of staging and stockpiles on plans. If locations are TBD, notate this on plans.



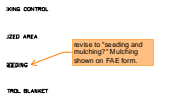
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label major contours



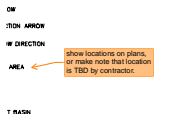
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show locations on plans



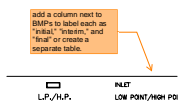
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revise to "seeding and mulching?" Mulching shown on FAE form.



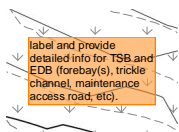
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show locations on plans, or make note that location is TBD by contractor.



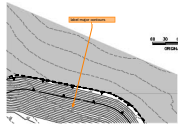
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add a column next to BMPs to label each as "initial," "interim," and "final" or create a separate table.



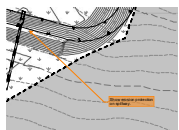
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label and provide detailed info for TSB and EDB (forebay(s), trickle channel, maintenance access road, etc).



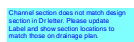
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label major contours



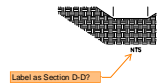
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Show erosion protection on spillway.



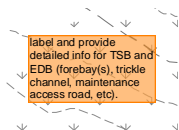
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Channel section does not match design section in Dr letter. Please update
Label and show section locations to match those on drainage plan.



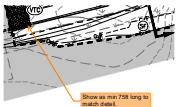
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Label as Section D-D?



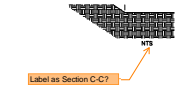
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label and provide detailed info for TSB and EDB (forebay(s), trickle channel, maintenance access road, etc).



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Show as min 75ft long to match detail.



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Label as Section C-C?

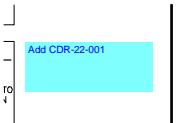


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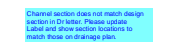
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Item Z. Include details for the following BMP's.
Examples of acceptable details for each are
provided:



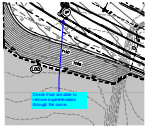
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Add CDR-22-001



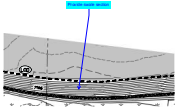
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Channel section does not match design
section in Dr letter. Please update
Label and show section locations to
match those on drainage plan.



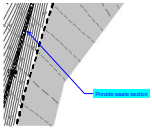
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Check if we are able to remove superelevation through the curve.



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Author: CDurham
Date: 4/7/2022 3:10:02 PM
Status:
Color: ■
Layer:
Space:

Provide swale section



Subject: Callout
Page Label: [4] 4 GESG (2)
Author: CDurham
Date: 4/7/2022 3:10:15 PM
Status:
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Provide swale section