

LEGEND

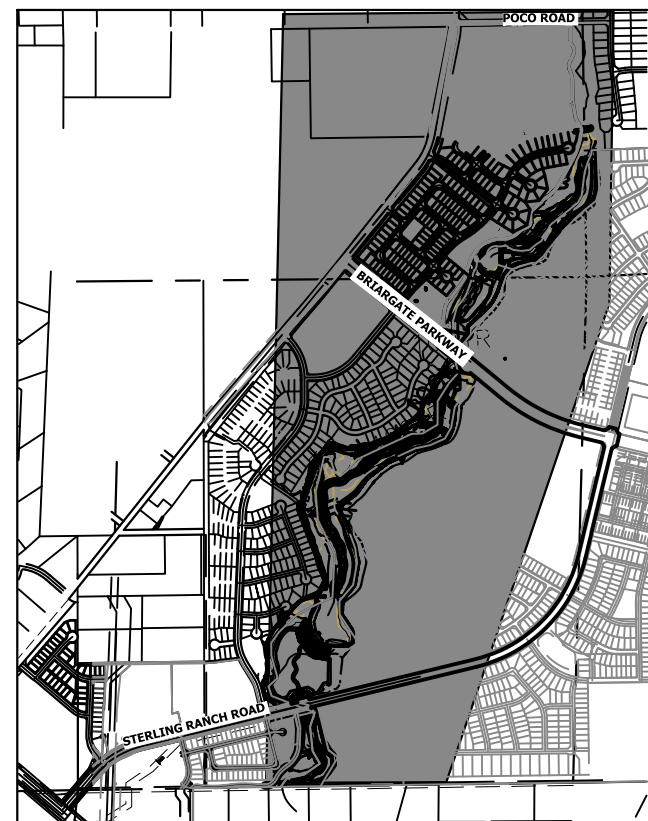
- REACH 1 (PHASE 1)
- REACH 2 (PHASE 2)
- REACH 3 (PHASE 3)

GEC INDEX SHEET

SCALE: 1" = 400'

NOTES

EXISTING VEGETATION IS MINIMAL, CONSISTING PRIMARILY OF LOW LYING WILLOW STANDS AND SPARSE SHRUBS IN THE UPPER RIPARIAN AREAS. EXISTING VEGETATION COVER IS APPROXIMATELY 8%.



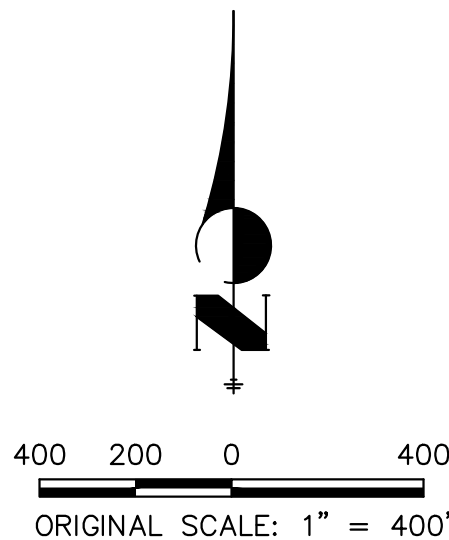
KEY MAP  
SCALE: 1"=2000'

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82

BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.



OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

*James F. Morley* 4/18/2023  
JAMES F. MORLEY DATE

SR LAND, LLC  
20 BOULDER CRESCENT, SUITE 201  
COLORADO SPRINGS, CO 80903

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

*Mike A. Bramlett* 7/18/23  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314 DATE

FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

J.R. ENGINEERING  
A Western Company



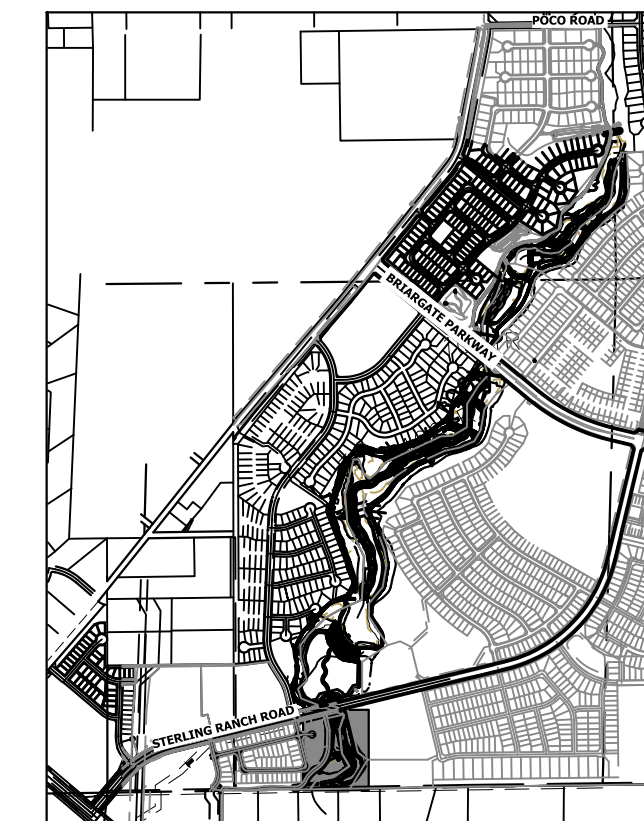
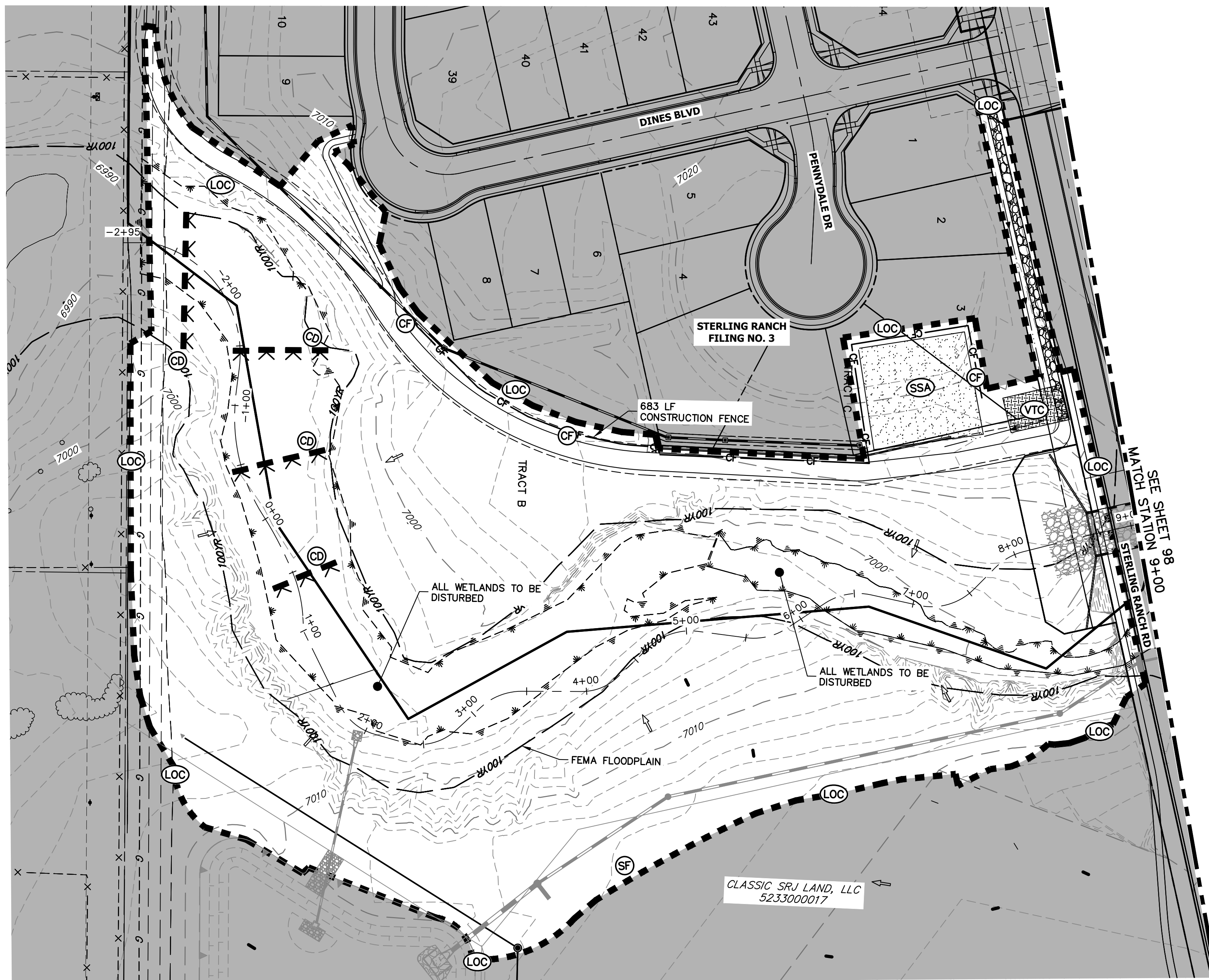
Central 303-740-9888 • Colorado Springs 719-583-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=400'	N/A	7/18/23	DJV	WUL	


SAND CREEK RESTORATION	GEC PLANS
SHEET 96	OF 121
JOB NO.	25188.04





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 **J·R ENGINEERING**  
A Westrian Company

Centennial 303-740-9383 • Colorado Springs 719-539-2538  
Fort Collins 970-491-9888 • [www.jrengr.com](http://www.jrengr.com)

[illegible]

H-SCALE	1"=60'
V-SCALE	N/A
DATE	7/18/23
DESIGNED BY	DJV
DRAWN BY	WJL

SAND CREEK RESTORATION
GEC INITIAL

SHEET 97 OF 120

JOB NO. 25188.04

### TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

2681	LF	-	SILT FENCE (SF)
18900	LF	-	CONSTRUCTION FENCE (CF)
4	EA	-	CHECK DAMS (CD)
4	LS	-	STABILIZED STAGING AREA (SSA)
4	LS	-	VEHICLE TRACKING CONTROL (VTC)

## BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED  
"318141", AT THE SOUTHWEST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT  
THE NORTHWEST BOUNDARY CORNER OF PANWEE  
RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED  
"381411", AT THE SOUTHWEST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 23394.517  
ELEVATION = 7030.82

## BASIS OF BEARINGS


THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34,  
TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS  
MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A  
2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE  
SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2"  
ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS  
N89°14'14"E, A DISTANCE OF 2,722.69 FEET.


## LEGEND

EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION		RRB	DEWATERING		DW
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION		SEDIMENT CONTROL LOG		SCL	TEMPORARY SEDIMENTATION BASIN		SB
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX		SM	CHECK DAM		CD
EXISTING EASEMENT		CONSTRUCTION FENCE		WETLANDS TO REMAIN		WTR	SURFACE ROUGHENING		SR
SECTION LINE		SILT FENCE		PERMANENT LANDSCAPING		LSC			
EXISTING STORM SEWER		VEHICLE TRACKING CONTROL		GEOTEXTILE		ECB			
EXISTING CURB & GUTTER		STABILIZED STAGING AREA		COIR MATTING		ECM			
PROPOSED RIGHT OF WAY LINE		CONCRETE WASHOUT AREA							
PROPOSED EASEMENT		STOCK PILE							
PROPOSED STORM SEWER		TEMP DRAINAGE CHANNEL							
PROPOSED CURB & GUTTER									
PROPOSED TOP OF SLOPE									
PROPOSED TOE OF SLOPE									
EXISTING DRAINAGE ARROW									
PROPOSED DRAINAGE ARROW									

### ENGINEER'S STATEMENT

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

  
 DATE

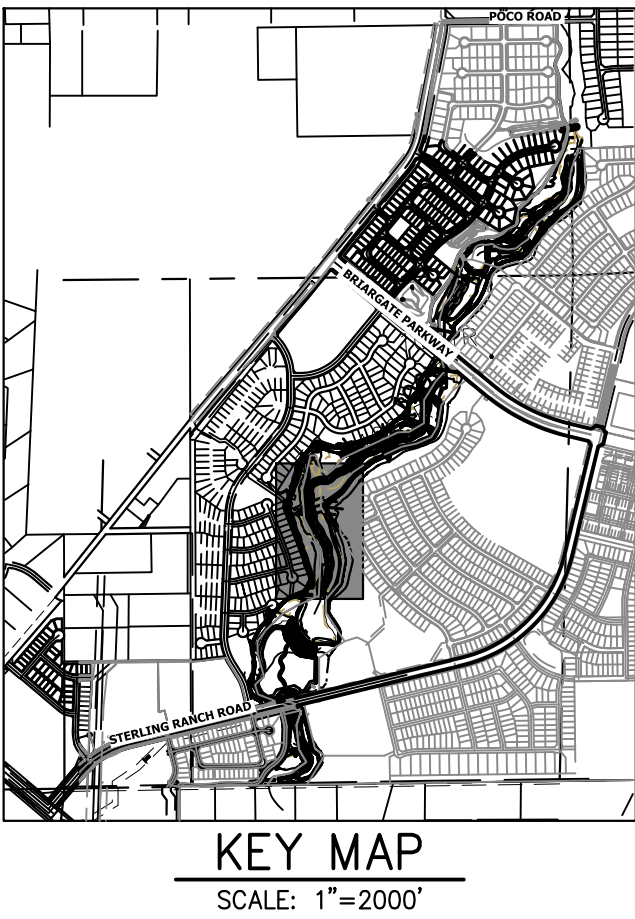
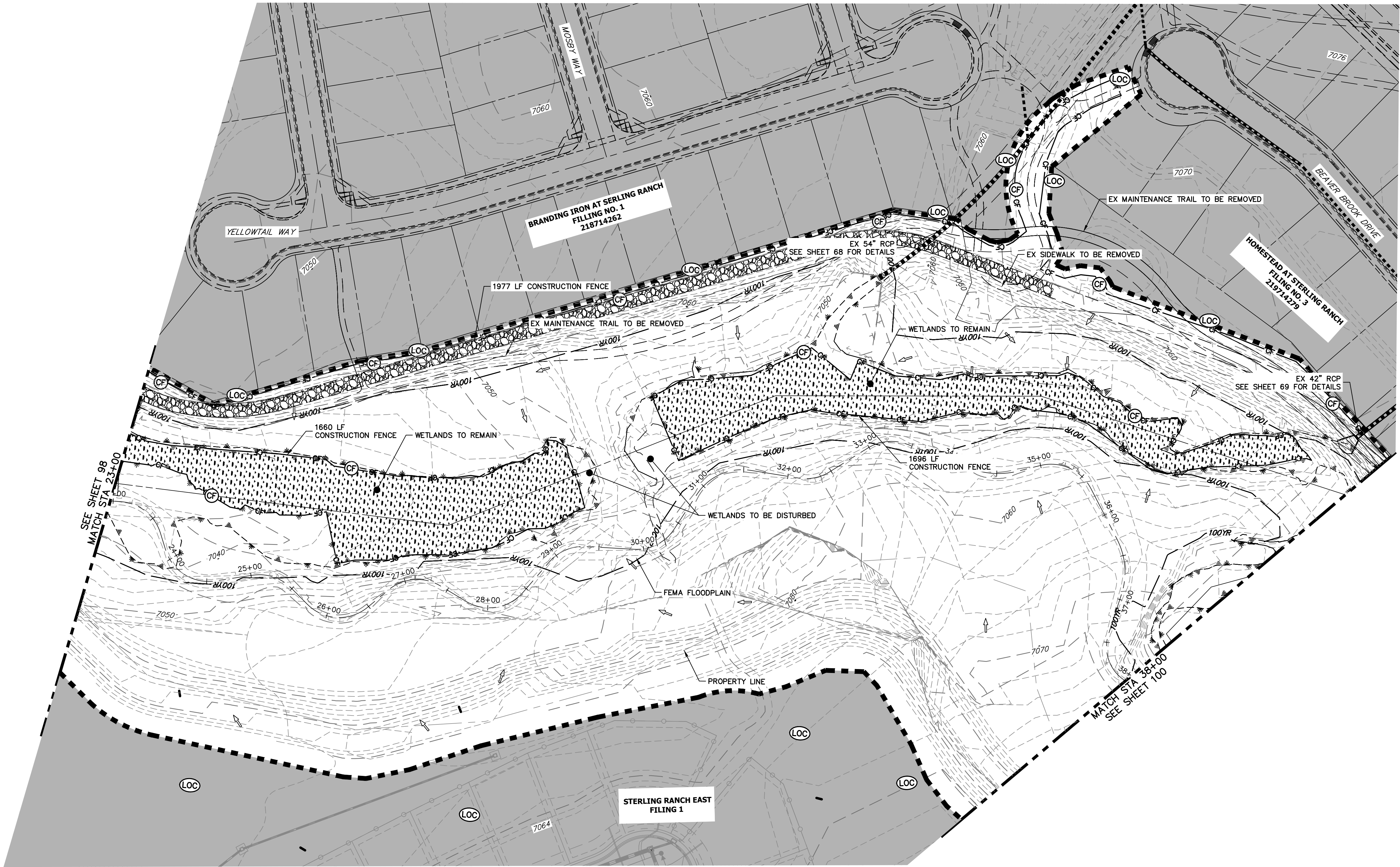


Know what's **below**.  
**Call** before you dig









### LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	
EXISTING CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING	
PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA		
PROPOSED EASEMENT	STOCK PILE		
PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL		
PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			

### TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

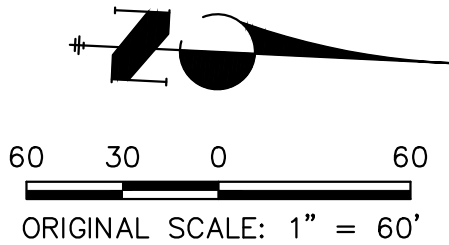
2681	LF	-	SILT FENCE
18900	LF	-	CONSTRUCTION FENCE
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4	LS	-	VEHICLE TRACKING CONTROL

### BENCHMARK

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### BASIS OF BEARINGS

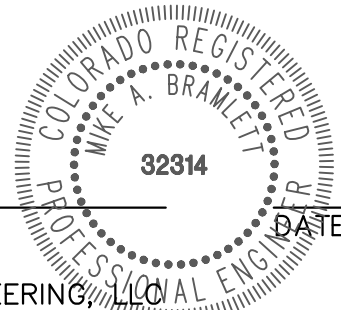
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MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING



SAND CREEK RESTORATION

GEC INITIAL

SHEET 99 OF 121

JOB NO. 25188.04

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

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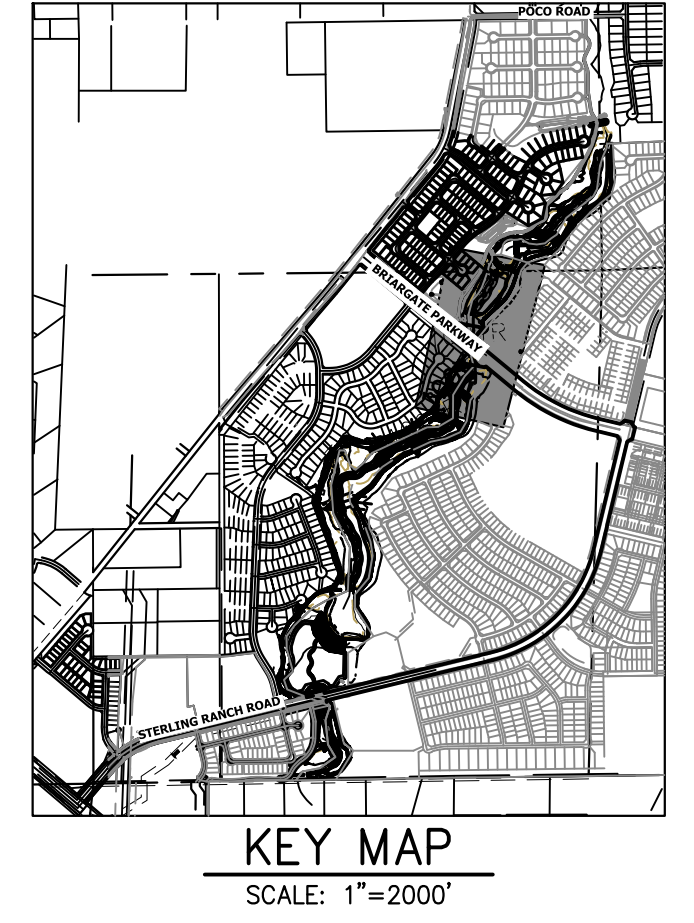
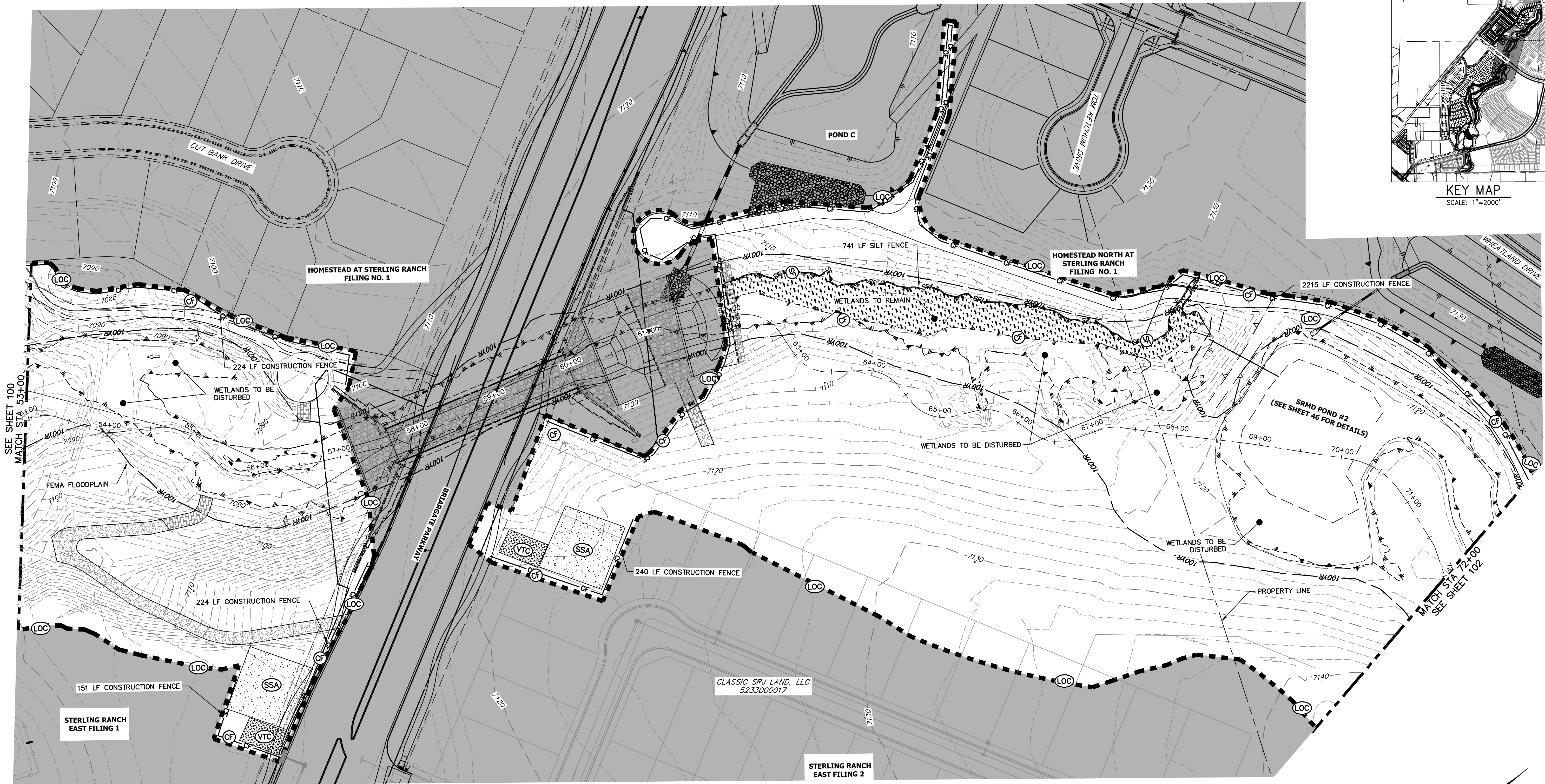
Central 303-740-9888 • Colorado Springs 719-583-2583  
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**LEGEND**

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	
EXISTING CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING	
PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA		
PROPOSED EASEMENT	STOCK PILE		
PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL		
PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			

**TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES**

2681	LF	-	SILT FENCE
18900	LF	-	CONSTRUCTION FENCE
4	EA	-	CHECK DAMS
4	LS	-	STABILIZED STAGING AREA
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**BENCHMARK**

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**BASIS OF BEARINGS**

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Mike Bramlett  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, INC.  
DATE 7/18/23

SAND CREEK RESTORATION	BY	DATE	REVISION	1"=60'	N/A	7/18/23	DJV	WUL	CHECKED BY
	No.								
	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY			
SHEET 101 OF 121		JOB NO. 25188.04							

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PREPARED FOR  
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2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
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## LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
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## TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

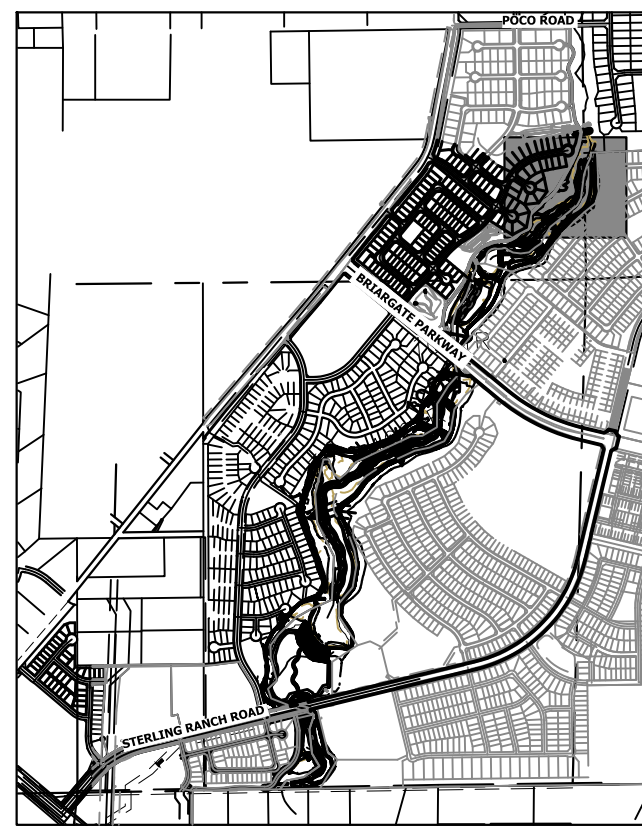
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## BENCHMARK

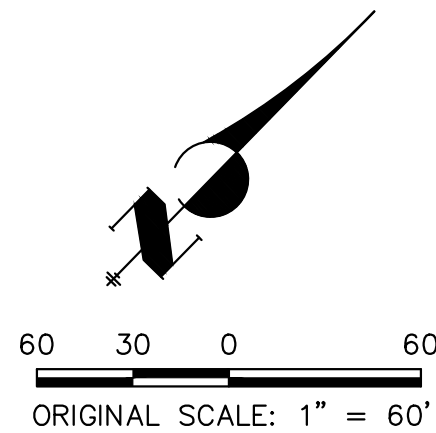
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## BASIS OF BEARINGS

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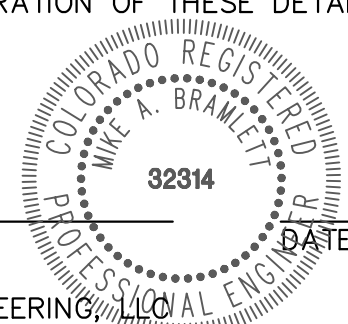
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SCALE: 1"=2000'



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



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PREPARED FOR

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20 BOULDER CRESCENT  
2ND FLOOR  
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JAMES F. MORLEY  
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BY	DATE	REVISION	No.	1"=60'	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				N/A			7/18/23	DJV	WUL	

SAND CREEK RESTORATION

GEC INITIAL

SHEET 102 OF 121

JOB NO. 25188.04







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### TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

9	EA	-	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
3	EA	-	CONCRETE WASHOUT AREA	(CWA)
15	EA	-	CHECK DAMS	(CD)
1990	LF	-	SEDIMENT CONTROL LOGS	(SCL)
1	EA	-	TEMPORARY SEDIMENT BASIN	(SB)

### LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)	DEWATERING	(DW)
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	(SCL)	TEMPORARY SEDIMENTATION BASIN	(SB)
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	(SM)	CHECK DAM	(CD)
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	(LS)	SURFACE ROUGHENING	(SR)
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	(LS)		
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	(ECB)		
EXISTING CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING	(ECB)		
PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA				
PROPOSED EASEMENT	STOCK PILE				
PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL				
PROPOSED CURB & GUTTER					
PROPOSED TOP OF SLOPE					
PROPOSED TOE OF SLOPE					
EXISTING DRAINAGE ARROW					
PROPOSED DRAINAGE ARROW					

### BASIS OF BEARINGS

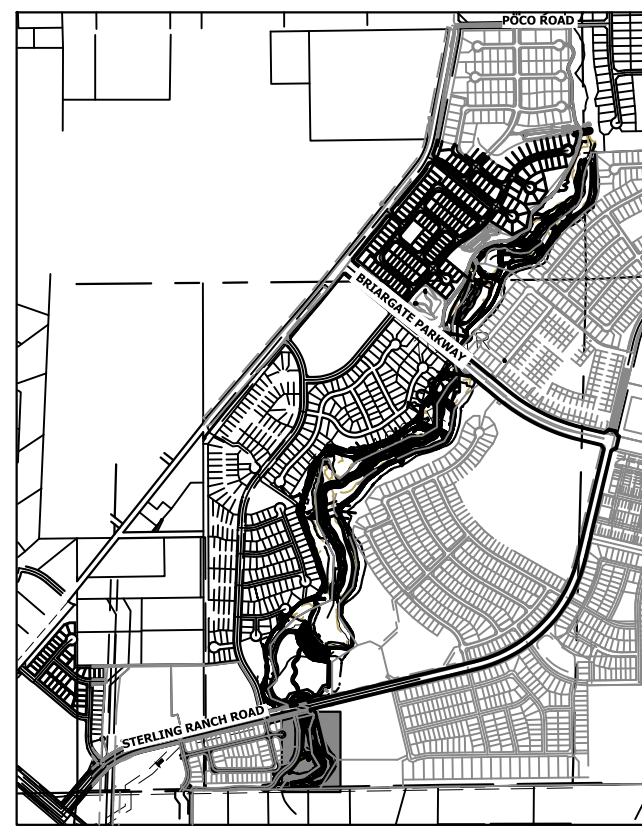
THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34,  
TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS  
MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A  
2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE  
SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2"  
ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS  
N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

### BENCHMARK

- THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED  
"9853", AT THE SOUTHEAST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
- THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT  
THE NORTHWEST BOUNDARY CORNER OF PAWNEE  
RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
- THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED  
"38141", AT THE SOUTHWEST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82



Know what's below.  
Call before you dig.



KEY MAP  
SCALE: 1"=2000'

UNTIL SUCH TIME AS  
THESE DRAWINGS ARE  
APPROVED BY THE  
APPROPRIATE REVIEWING  
AGENCIES, OR ENGINEERING  
APPROVES THEIR USE,  
THESE DRAWINGS ARE  
DESIGNATED BY WRITTEN  
AUTHORIZATION.

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

J.R. ENGINEERING  
A Western Company



Central 303-740-9888 • Colorado Springs 719-583-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY

DATE

No. REVISION

1"=60'

H-SCALE

V-SCALE

N/A

DATE

DESIGNED BY

DIV

WUL

CHECKED BY

SAND CREEK RESTORATION

GEC INTERIM

SHEET 104 OF 121

JOB NO. 25188.04

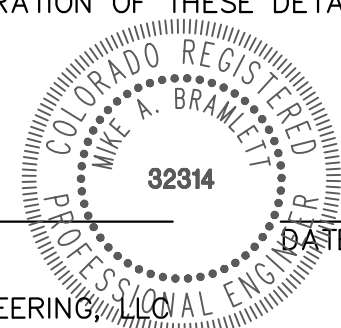
### ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY  
DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE  
BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE  
COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION  
CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND  
SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE  
PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND  
SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR  
ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT  
TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY  
FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR  
OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS  
AND SPECIFICATIONS.

MIKE A. BRAMLETT, P.E.

COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING



7/18/23

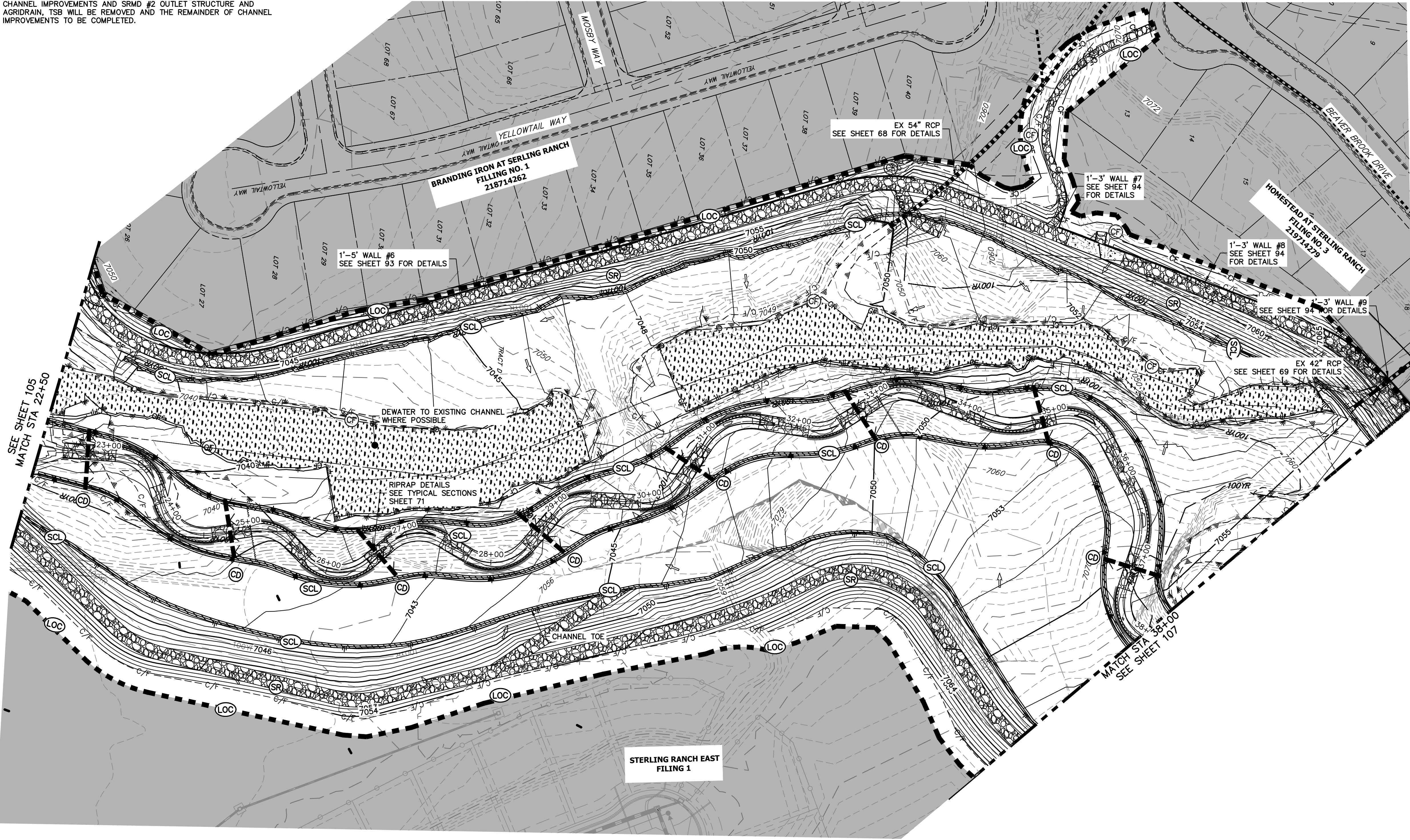




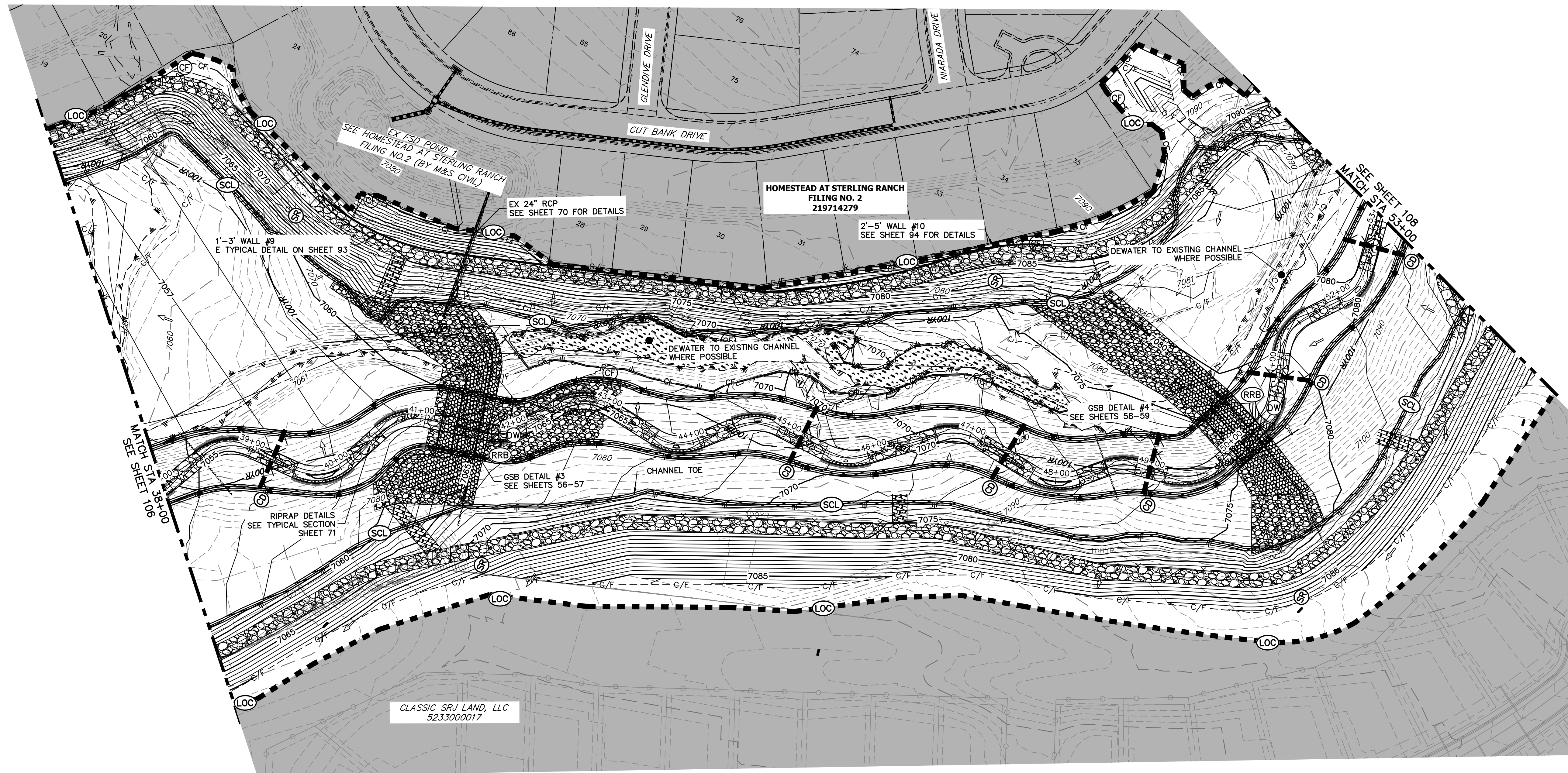


TEMPORARY SEDIMENT BASIN NOTES:

TEMPORARY SEDIMENT BASIN TO BE CONSTRUCTED PRIOR TO BEGINNING OF CHANNEL GRADING. CHANNEL IMPROVEMENTS WILL START UPSTREAM OF TSB AND CONTINUE UPSTREAM TO SRMD POND #2. UPON COMPLETION OF CHANNEL IMPROVEMENTS AND SRMD #2 OUTLET STRUCTURE AND AGRIDRAIN, TSB WILL BE REMOVED AND THE REMAINDER OF CHANNEL IMPROVEMENTS TO BE COMPLETED.







UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(303) 591-1234

**J·R ENGINEERING**  
A Westrian Company

 Centennial 303-740-9383 • Colorado Springs 719-593-2593  
Fort Collins 970-491-9888 • [www.jrengr.com](http://www.jrengr.com)

1" = 60'	H-SCALE	NO.	REVISION	BY	DATE
	V-SCALE				
	DATE				
	DESIGNED BY				
	DRAWN BY				
	WJL				

**SAND CREEK RESTORATION**

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**GEC INTERIM**

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SHEET 107 OF 120

JOB NO. 25188.0

## LEGEND

EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION		DEWATERING	
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION		SEDIMENT CONTROL LOG		TEMPORARY SEDIMENTATION BASIN	
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		PERMANENT SEEDING AND MULCHING - NATIVE VEGETATION SEED MIX		CHECK DAM	
EXISTING EASEMENT		CONSTRUCTION FENCE		WETLANDS TO REMAIN		SURFACE ROUGHENING	
SECTION LINE		SILT FENCE		PERMANENT LANDSCAPING			
EXISTING STORM SEWER		VEHICLE TRACKING CONTROL		GEOTEXTILE			
EXISTING CURB & GUTTER		STABILIZED STAGING AREA		COIR MATTING			
PROPOSED RIGHT OF WAY LINE		CONCRETE WASHOUT AREA					
PROPOSED EASEMENT		STOCK PILE					
PROPOSED STORM SEWER		TEMP DRAINAGE CHANNEL					
PROPOSED CURB & GUTTER							
PROPOSED TOP OF SLOPE							
PROPOSED TOE OF SLOPE							
EXISTING DRAINAGE ARROW							
PROPOSED DRAINAGE ARROW							

**BASIS OF BEARING**  
 THE SOUTH LINE OF TOWNSHIP 12 SOUTH, MONUMENTED AT THE 2-1/2" ALUMINUM CAP SOUTHEAST CORNER OF ALUMINUM CAP STATION

### **TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES**

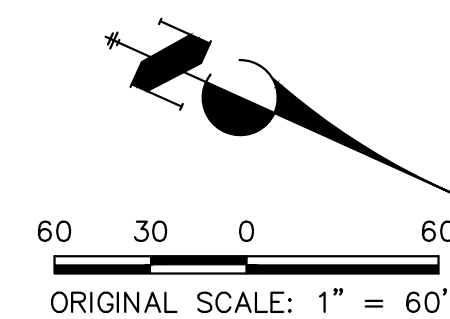
9	EA	—	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
3	EA	—	CONCRETE WASHOUT AREA	(CWA)
15	EA	—	CHECK DAMS	(CD)
1990	LF	—	SEDIMENT CONTROL LOGS	(SCL)
1	EA	—	TEMPORARY SEDIMENT BASIN	(SB)

## BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED  
"9853", AT THE SOUTHEAST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT  
THE NORTHWEST BOUNDARY CORNER OF PANWEE  
RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED  
"38141", AT THE SOUTHWEST BOUNDARY CORNER OF  
BARBARICK SUBDIVISION  
NORTHING = 411390.862  
EASTING = 233849.817  
ELEVATION = 7030.82

## BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

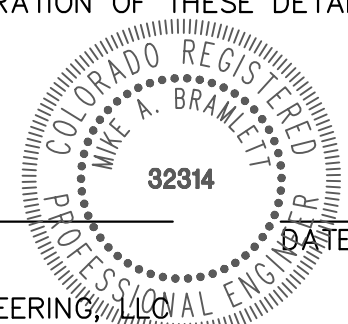


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### ENGINEER'S STATEMENT

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













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LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE
EXISTING CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING
PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA	
PROPOSED EASEMENT	STOCK PILE	
PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL	
PROPOSED CURB & GUTTER		
PROPOSED TOP OF SLOPE		
PROPOSED TOE OF SLOPE		
EXISTING DRAINAGE ARROW		
PROPOSED DRAINAGE ARROW		

TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

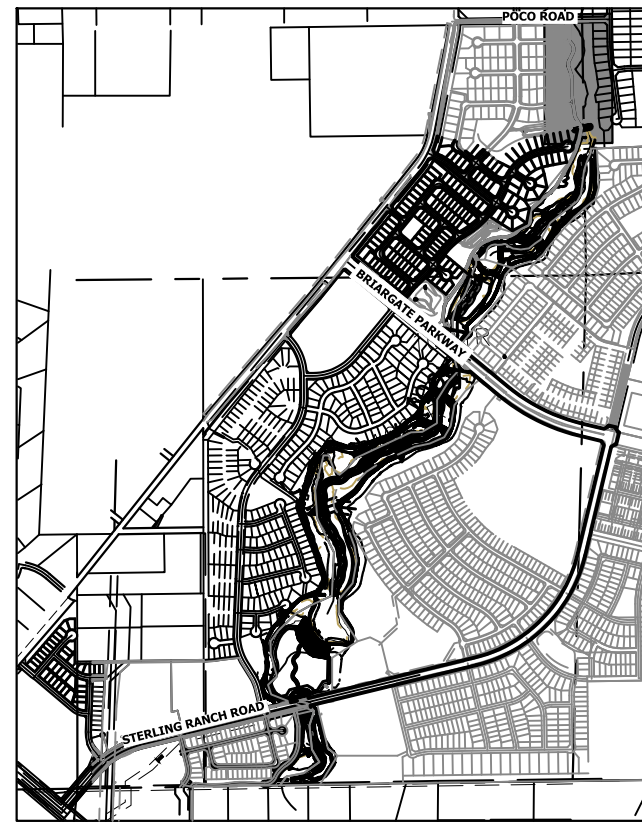
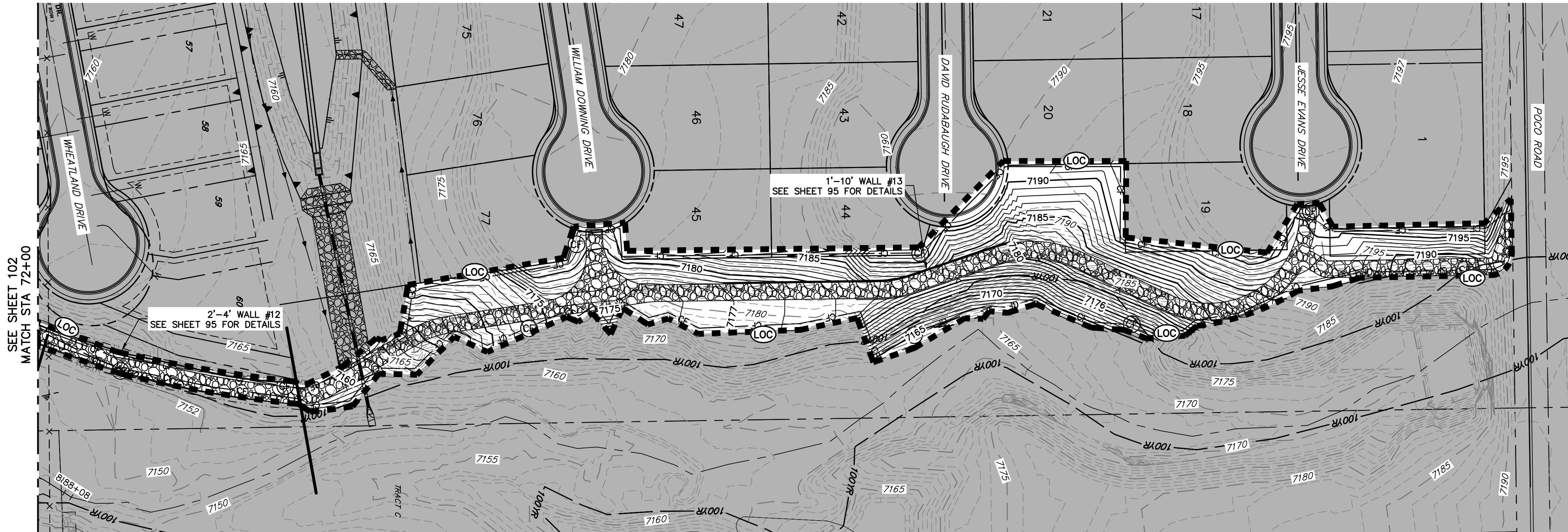
9	EA	-	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
3	EA	-	CONCRETE WASHOUT AREA	(CWA)
15	EA	-	CHECK DAMS	(CD)
1990	LF	-	SEDIMENT CONTROL LOGS	(SCL)
1	EA	-	TEMPORARY SEDIMENT BASIN	(SB)

BENCHMARK

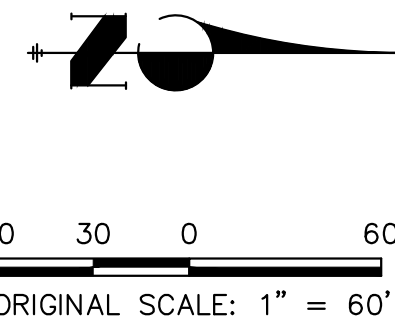
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NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
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NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82

BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.



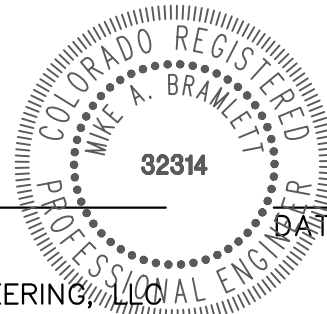
KEY MAP  
SCALE: 1"=2000'



ENGINEER'S STATEMENT

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



SAND CREEK RESTORATION

GEC INTERIM

SHEET 110 OF 121

JOB NO. 25188.04

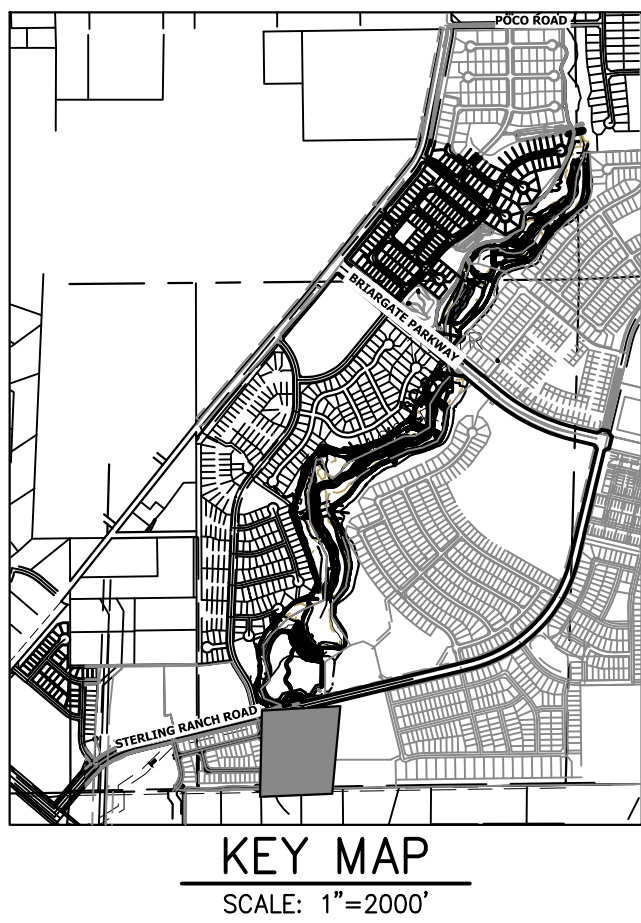
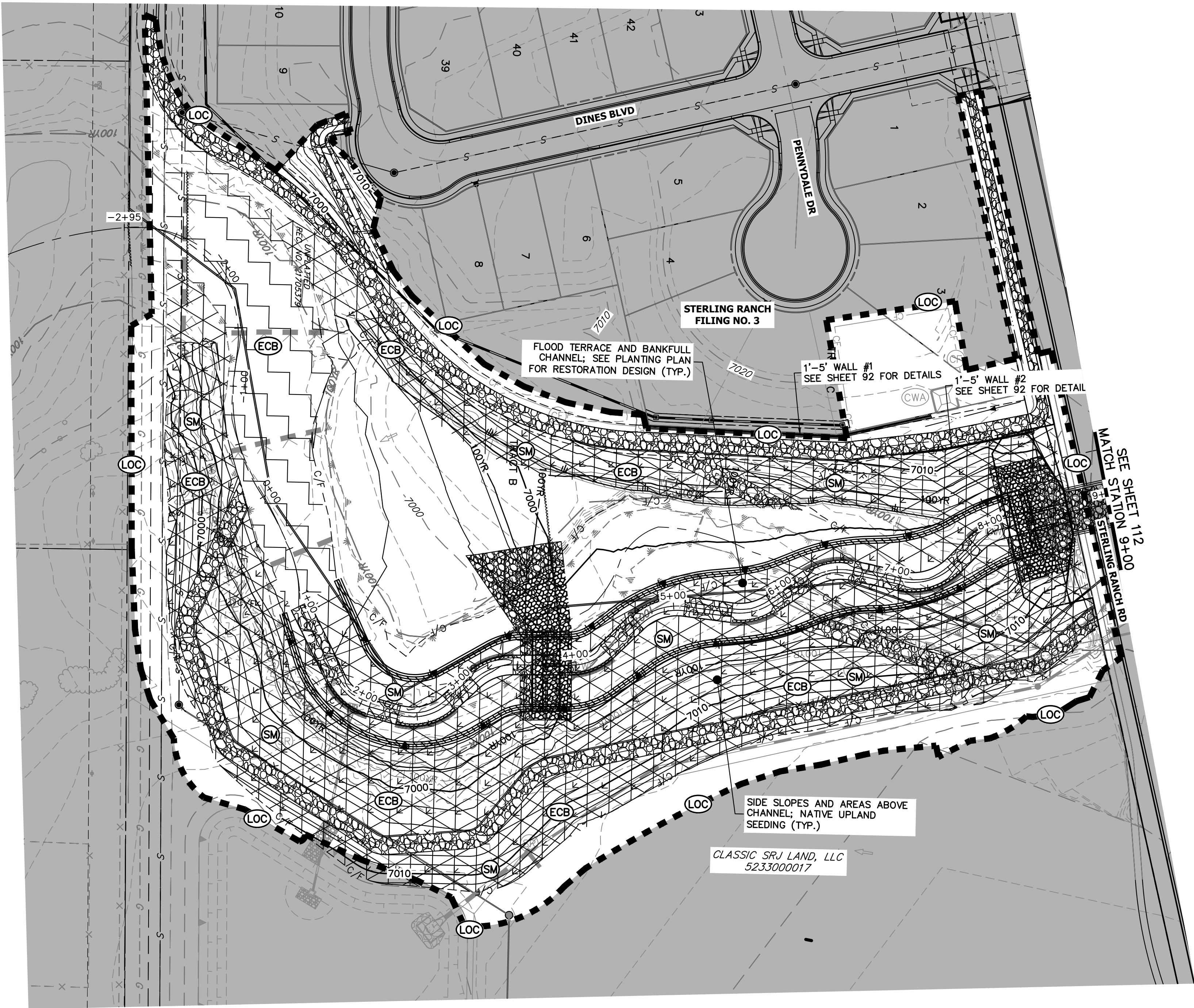
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PREPARED FOR  
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20 BOULDER CRESCENT  
2ND FLOOR  
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JAMES F. MORLEY  
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### LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
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EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	
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PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL		
PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			

### TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

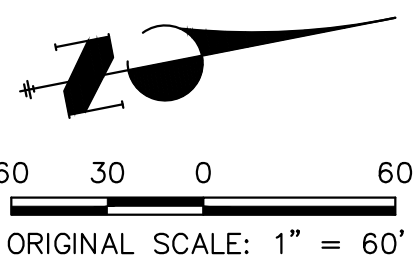
48.65	AC	-	SEEDING & MULCHING (UPLAND)
2.55	AC	-	SEEDING & MULCHING (WETLAND)
1.93	AC	-	GEOTEXTILE
32.58	AC	-	COIR MATTING

### BENCHMARK

- THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
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- THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82

### BASIS OF BEARINGS

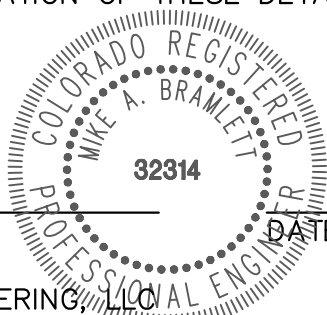
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### ENGINEER'S STATEMENT

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



SAND CREEK RESTORATION

GEC FINAL

SHEET 111 OF 121

JOB NO. 25188.04

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

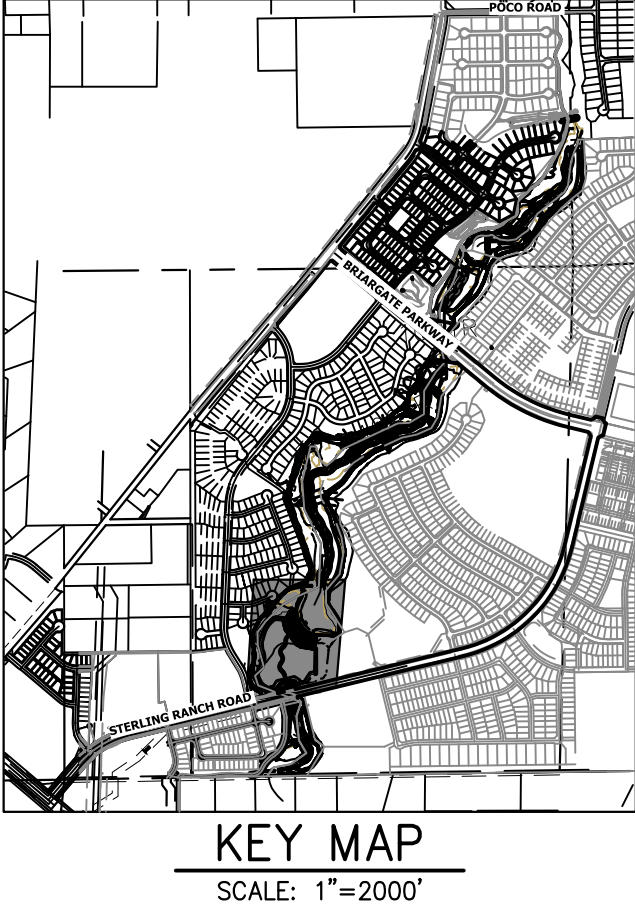
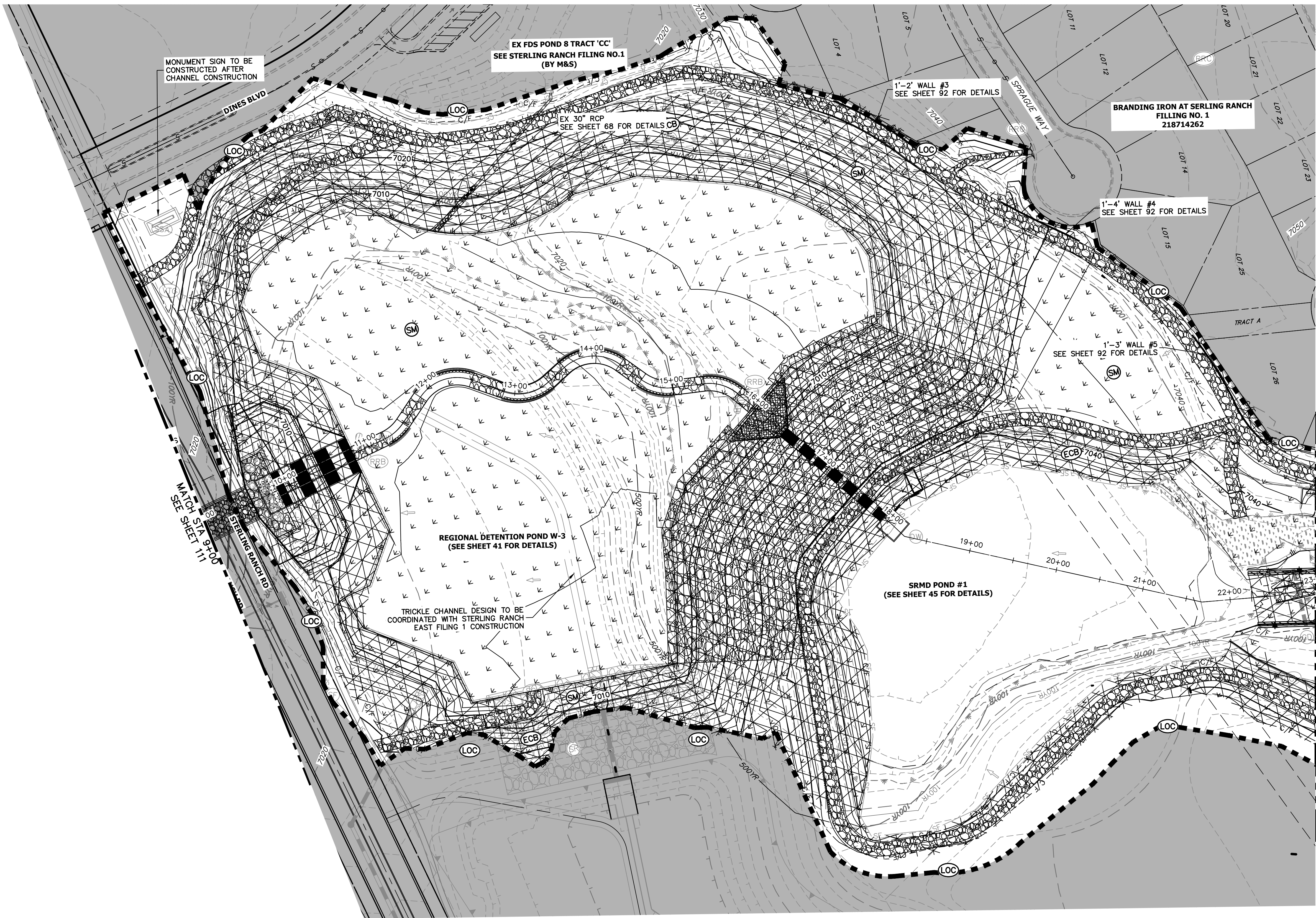
J.R. ENGINEERING  
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Fort Collins 970-491-9888 • www.jrengineering.com

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LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	
EXISTING CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING	
PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA		
PROPOSED EASEMENT	STOCK PILE		
PROPOSED STORM SEWER	TEMP DRAINAGE CHANNEL		
PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

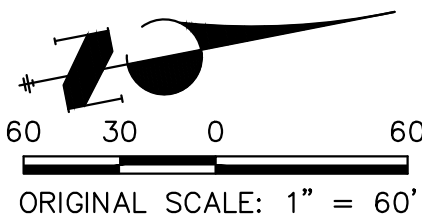
48.65	AC	-	SEEDING & MULCHING (UPLAND)
2.55	AC	-	SEEDING & MULCHING (WETLAND)
1.93	AC	-	GEOTEXTILE
32.58	AC	-	COIR MATTING

BENCHMARK

- THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9863", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
- THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
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BASIS OF BEARINGS

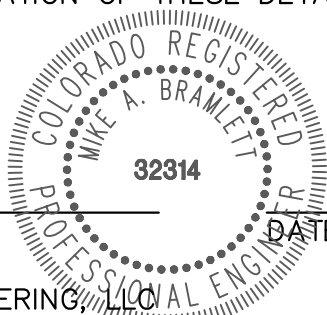
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MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING



SAND CREEK RESTORATION

GEC FINAL

SHEET 112 OF 121

JOB NO. 25188.04

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

J.R. ENGINEERING  
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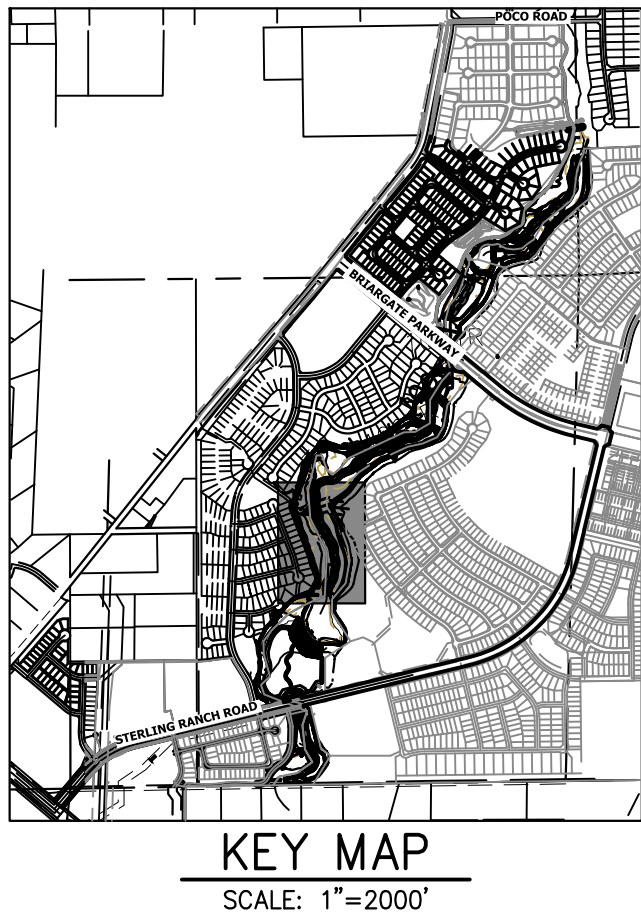
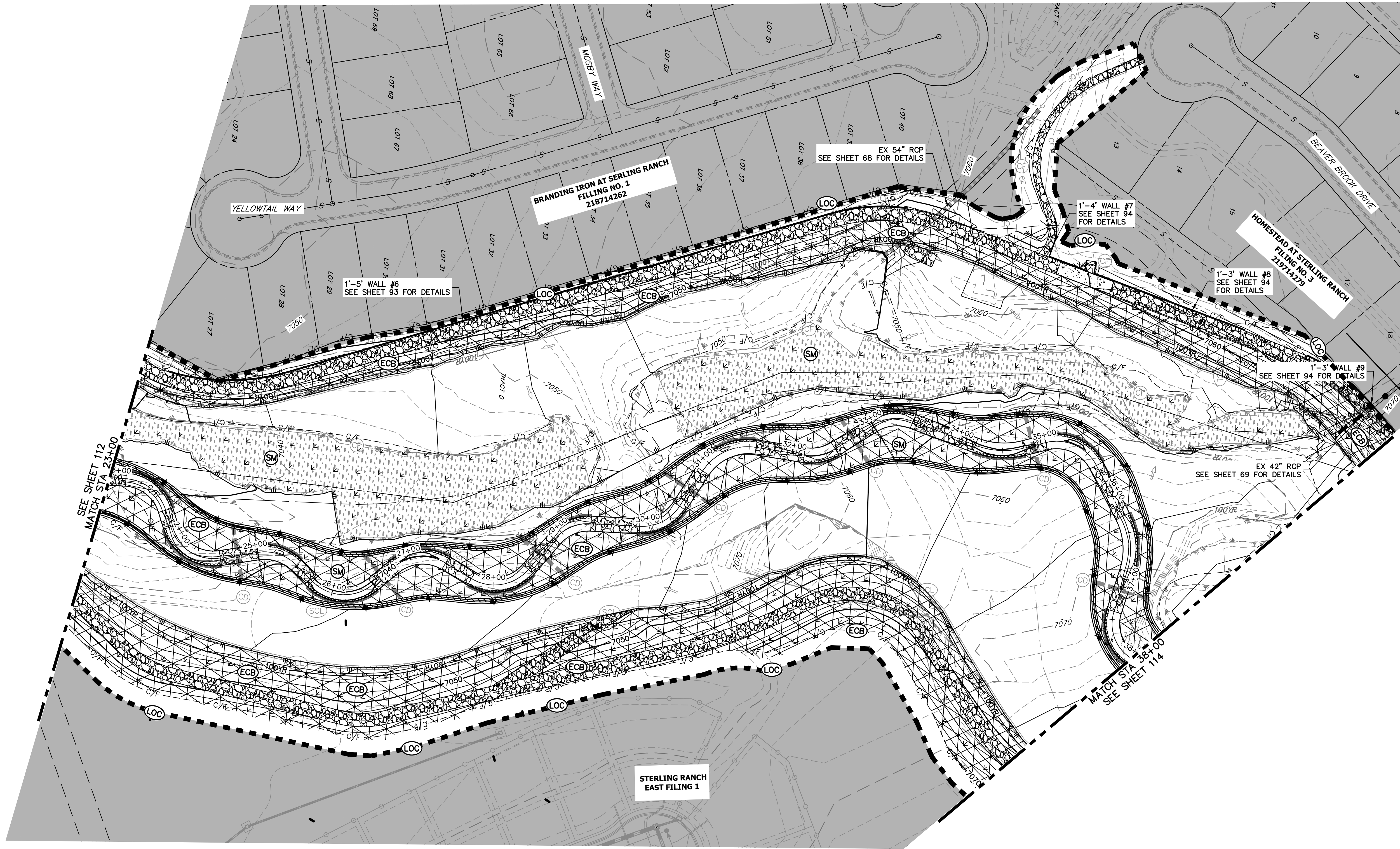


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**LEGEND**

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	
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PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			

**TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES**

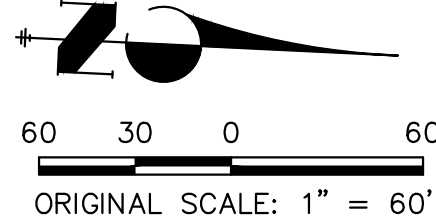
48.65	AC	-	SEEDING & MULCHING (UPLAND)
2.55	AC	-	SEEDING & MULCHING (WETLAND)
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32.58	AC	-	COIR MATTING

**BENCHMARK**

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
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**BASIS OF BEARINGS**

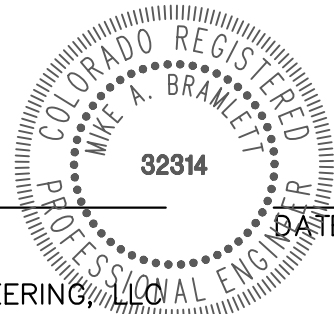
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MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, LLC



SAND CREEK RESTORATION	GEC FINAL	H-SCALE	1"=60'	No.	REVISION	BY	DATE
		V-SCALE	N/A				
		DATE	7/18/23				
		DESIGNED BY	DJV				
		DRAWN BY	WUL				
		CHECKED BY					
SHEET 113 OF 121							
JOB NO. 25188.04							

**J.R. ENGINEERING**  
A Western Company

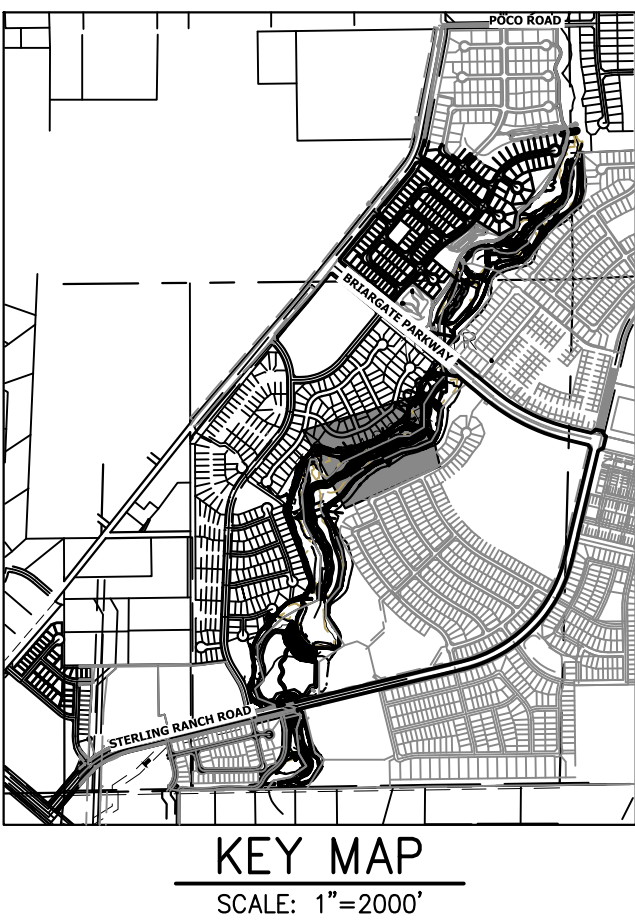
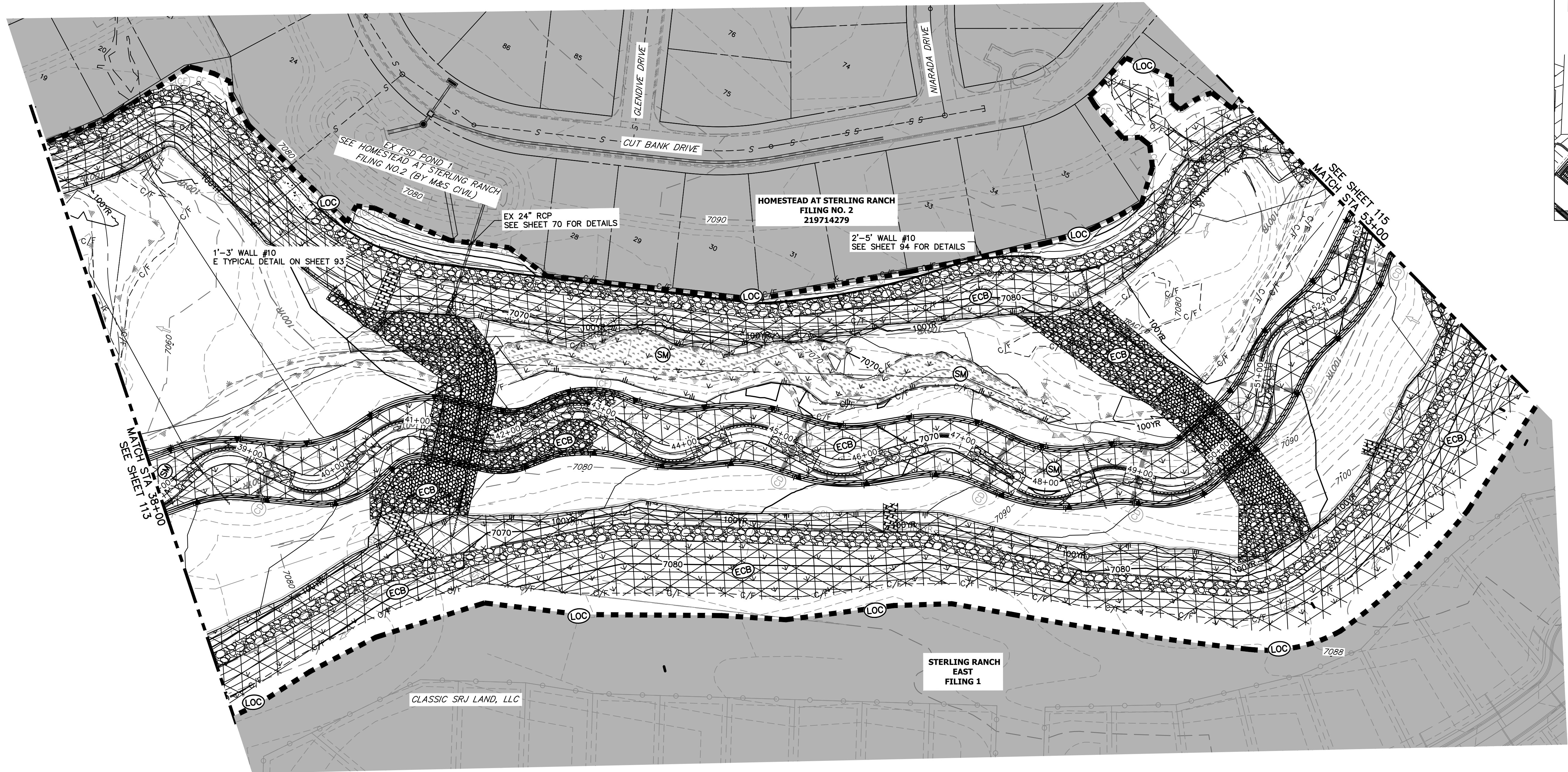


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PREPARED FOR  
**SR LAND, LLC**  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

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LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION
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PROPOSED DRAINAGE ARROW		

RRB	DW
SCL	SB
SM	CD
LS	SR
ECB	
ECB	

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

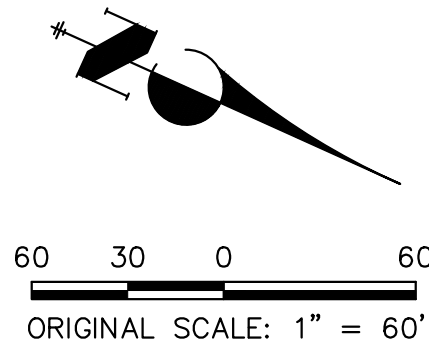
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BASIS OF BEARINGS

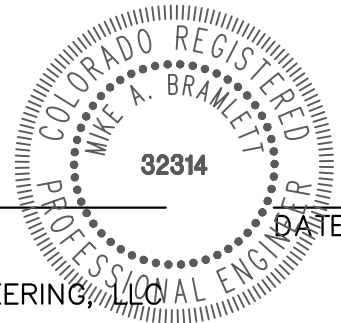
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Mike Bramlett



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

SAND CREEK RESTORATION

GEC FINAL

SHEET 114 OF 121

JOB NO. 25188.04

PREPARED FOR

SR LAND, LLC  
20 BOULDER CRESCENT  
2ND FLOOR  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 419-3024

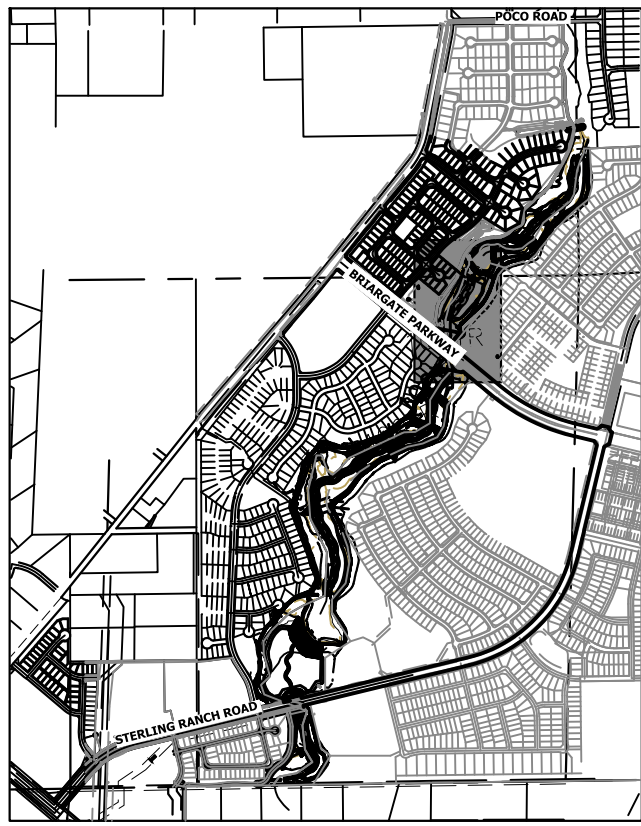
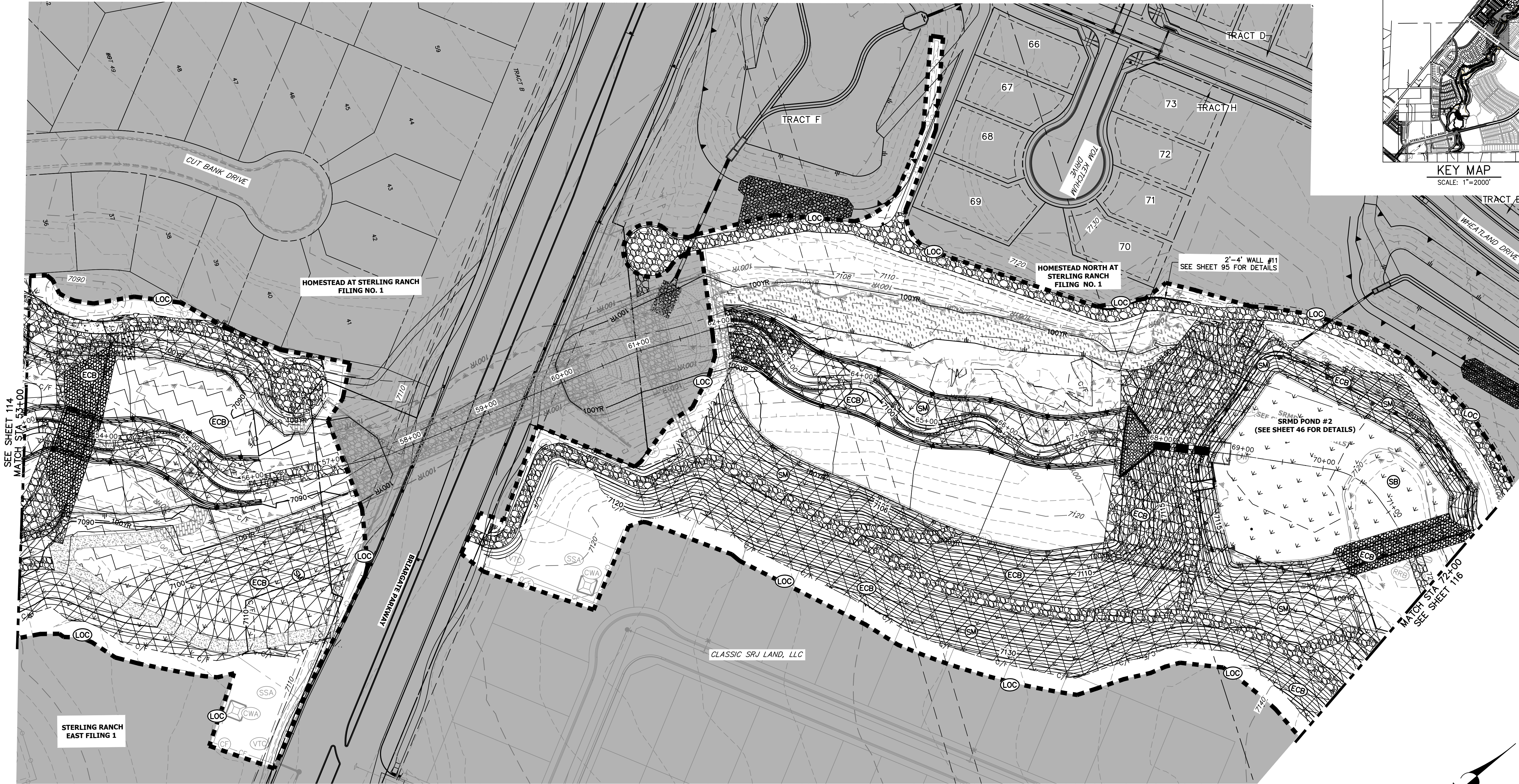
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KEY MAP  
SCALE: 1"=2000'

LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	RRB	DEWATERING	DW
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	SCL	TEMPORARY SEDIMENTATION BASIN	SB
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	SM	CHECK DAM	CD
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	WLS	SURFACE ROUGHENING	SR
SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	LS		
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL	GEOTEXTILE	ECB		
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Mike Bramlett  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, LLC

32314  
7/18/23

SAND CREEK RESTORATION				SHEET 115 OF 121							
GEC FINAL				JOB NO. 25188.04							
H-SCALE		1"=60'		No.		REVISION		BY		DATE	
V-SCALE		N/A									
DATE		7/18/23									
DESIGNED BY		DJV									
DRAWN BY		WJL									
CHECKED BY											
<div><div><b>J-R ENGINEERING</b> A Westrian Company</div><div>Centennial 303-740-3383 • Colorado Springs 719-559-2533 Fort Collins 970-491-9888 • <a href="http://www.jrengineering.com">www.jrengineering.com</a></div></div>											
PREPARED FOR <b>SR LAND, LLC</b> 20 BOULDER CRESCENT 2ND FLOOR COLORADO SPRINGS, CO 80903 <b>JAMES F. MORLEY</b> (719) 419-3024											
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### LEGEND

EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION		DEWATERING	
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION		SEDIMENT CONTROL LOG		TEMPORARY SEDIMENTATION BASIN	
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX		CHECK DAM	
EXISTING EASEMENT		CONSTRUCTION FENCE		WETLANDS TO REMAIN		SURFACE ROUGHENING	
SECTION LINE		SILT FENCE		PERMANENT LANDSCAPING			
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EXISTING CURB & GUTTER		STABILIZED STAGING AREA		COIR MATTING			
PROPOSED RIGHT OF WAY LINE		CONCRETE WASHOUT AREA					
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### TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

48.65	AC	-	SEEDING & MULCHING (UPLAND)
2.55	AC	-	SEEDING & MULCHING (WETLAND)
1.93	AC	-	GEOTEXTILE
32.58	AC	-	COIR MATTING

### BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82



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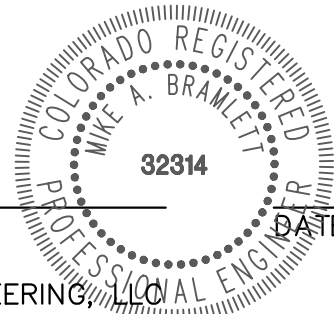
### ENGINEER'S STATEMENT

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MIKE A. BRAMLETT, P.E.

COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING



7/18/23

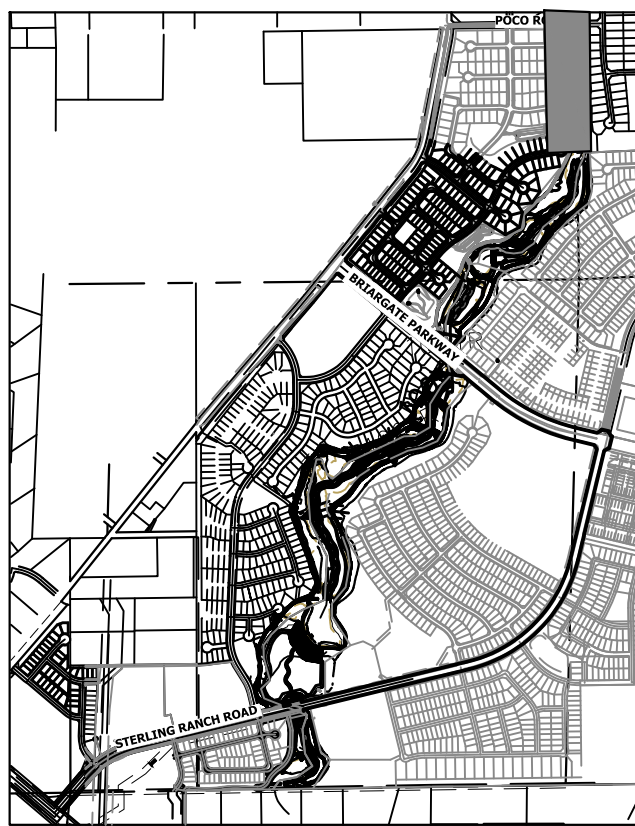
DATE

SAND CREEK RESTORATION

GEC FINAL

SHEET 117 OF 121

JOB NO. 25188.04



KEY MAP  
SCALE: 1"=2000'

PREPARED FOR

SR LAND, LLC

20 BOULDER CRESCENT

2ND FLOOR

COLORADO SPRINGS, CO 80903

JAMES F. MORLEY

(719) 419-3024

J.R. ENGINEERING

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UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING PROFESSIONALS, THESE DRAWINGS ARE NOT TO BE USED FOR ANY PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

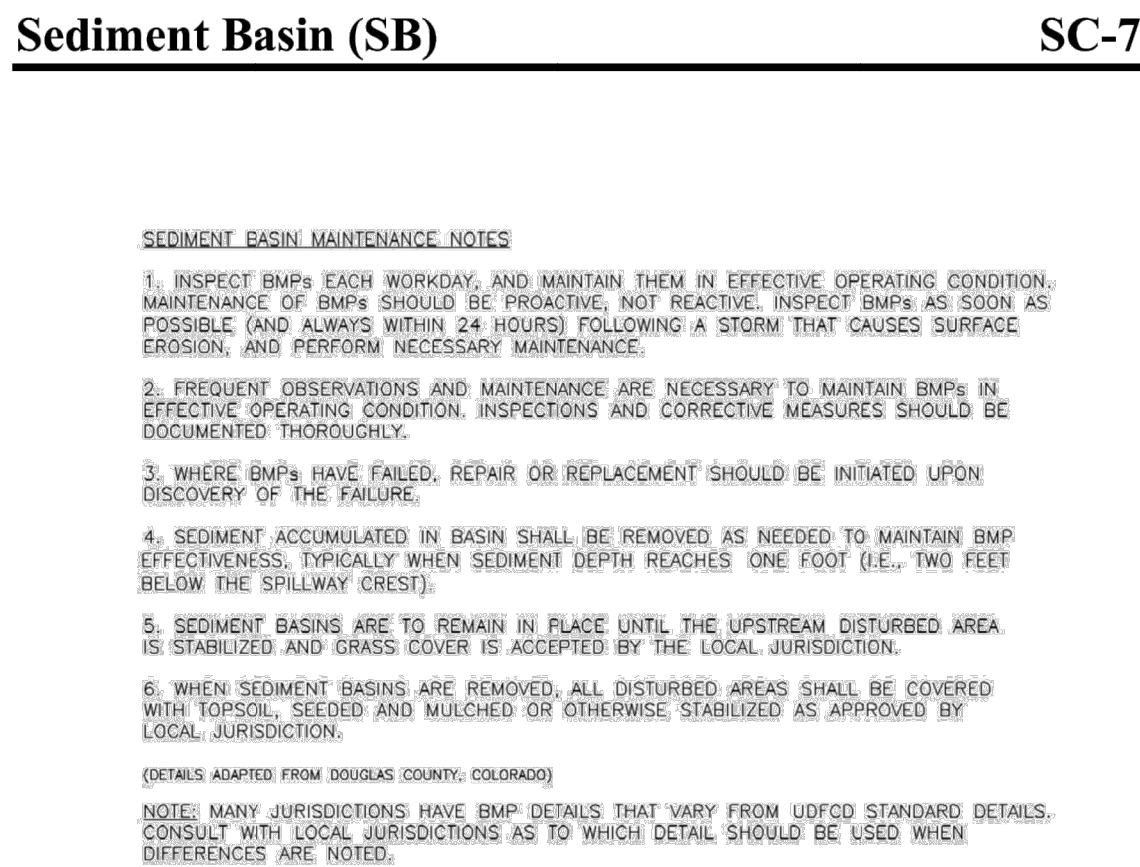
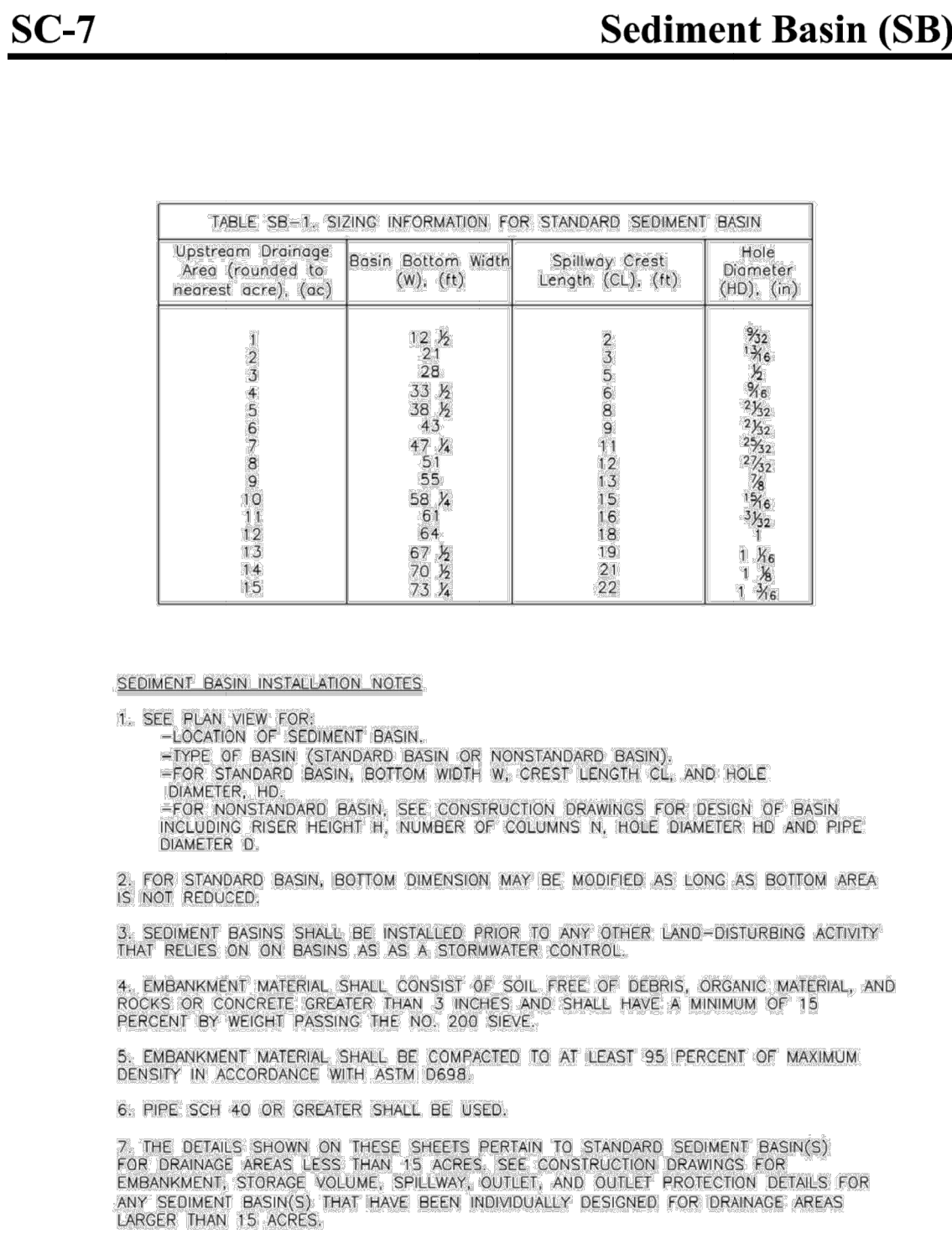
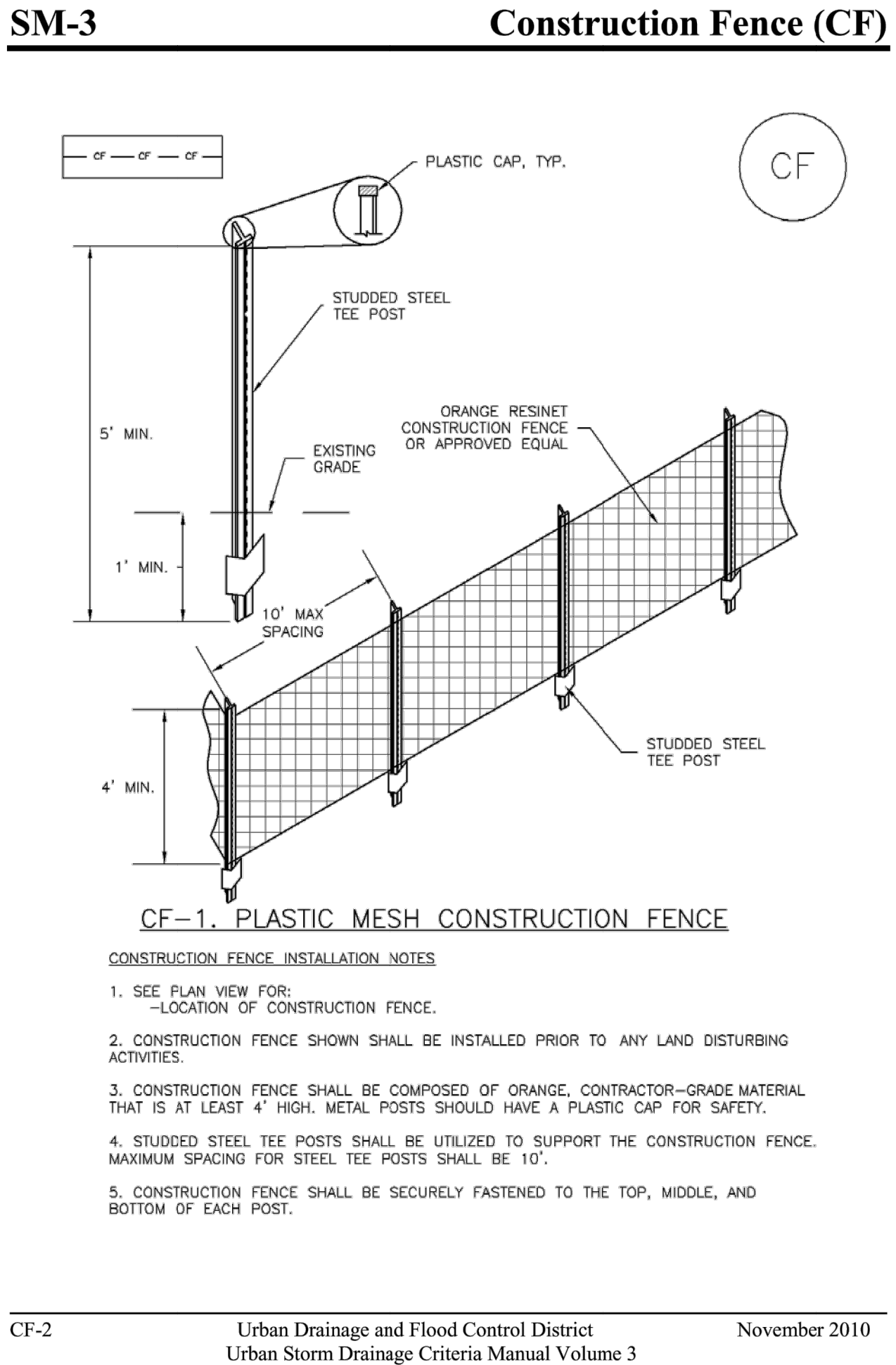
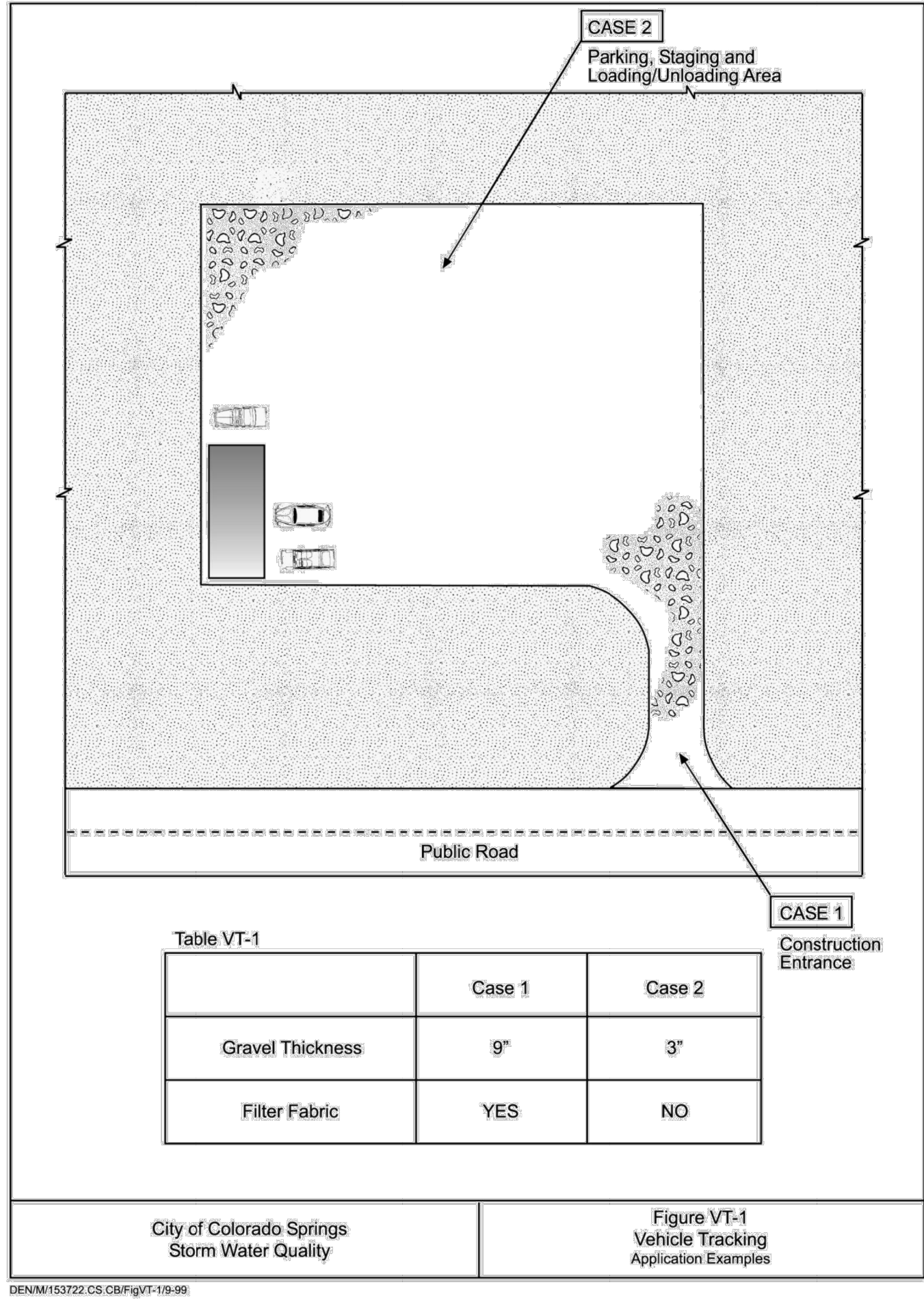












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COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING,

PREPARED FOR  
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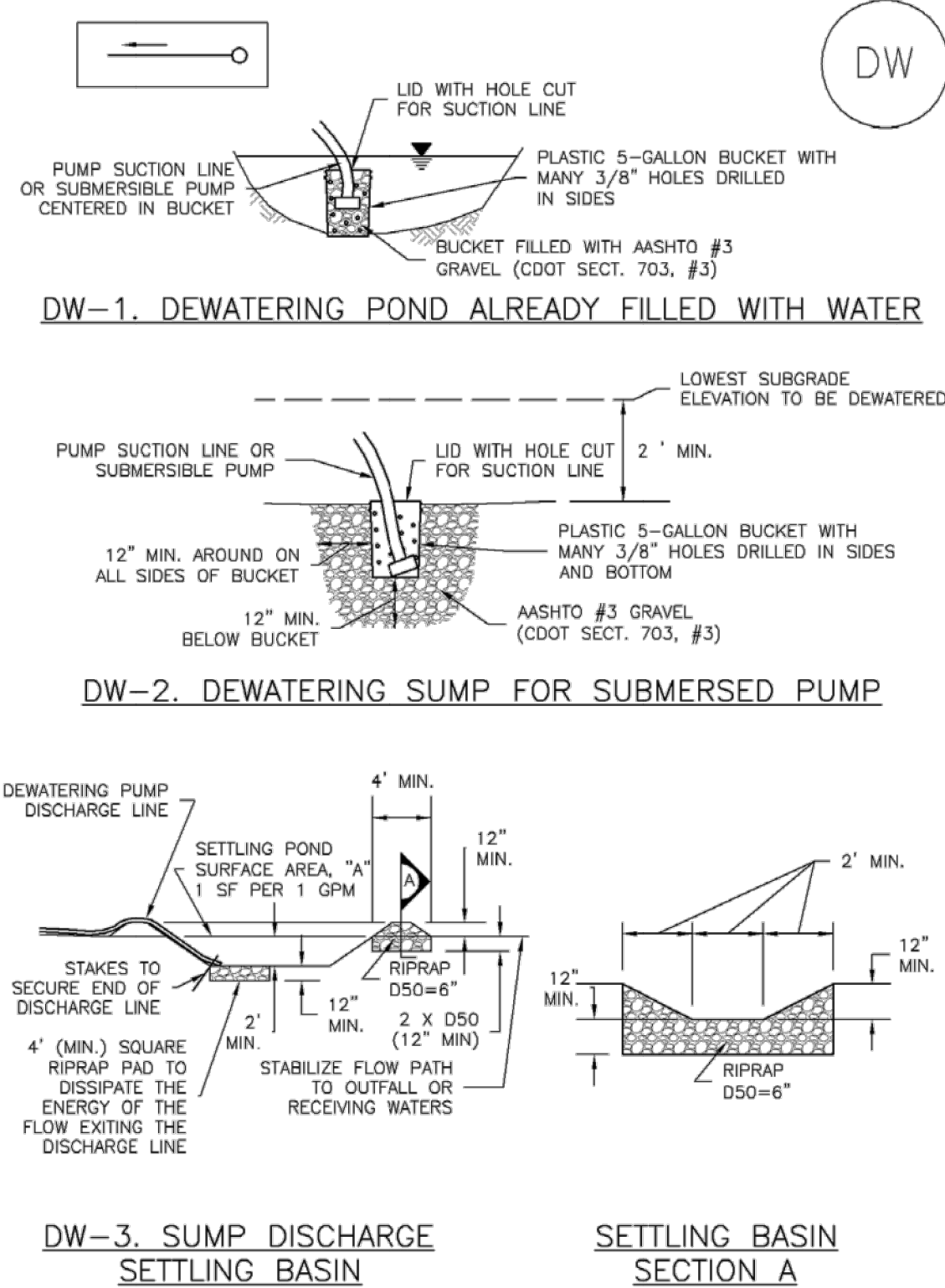
DATE	BY	REVISION	NO.	AS SHOWN	H-SCALE
				AS SHOWN <td>V-SCALE</td>	V-SCALE
				7/18/23 <td>DATE</td>	DATE
				SCH	DESIGNED BY
				SCH	DRAWN BY

SAND CREEK RESTORATION	
GEC DETAILS	
SHEET 120	OF 121
JOB NO.	25188.04



Dewatering Operations (DW)

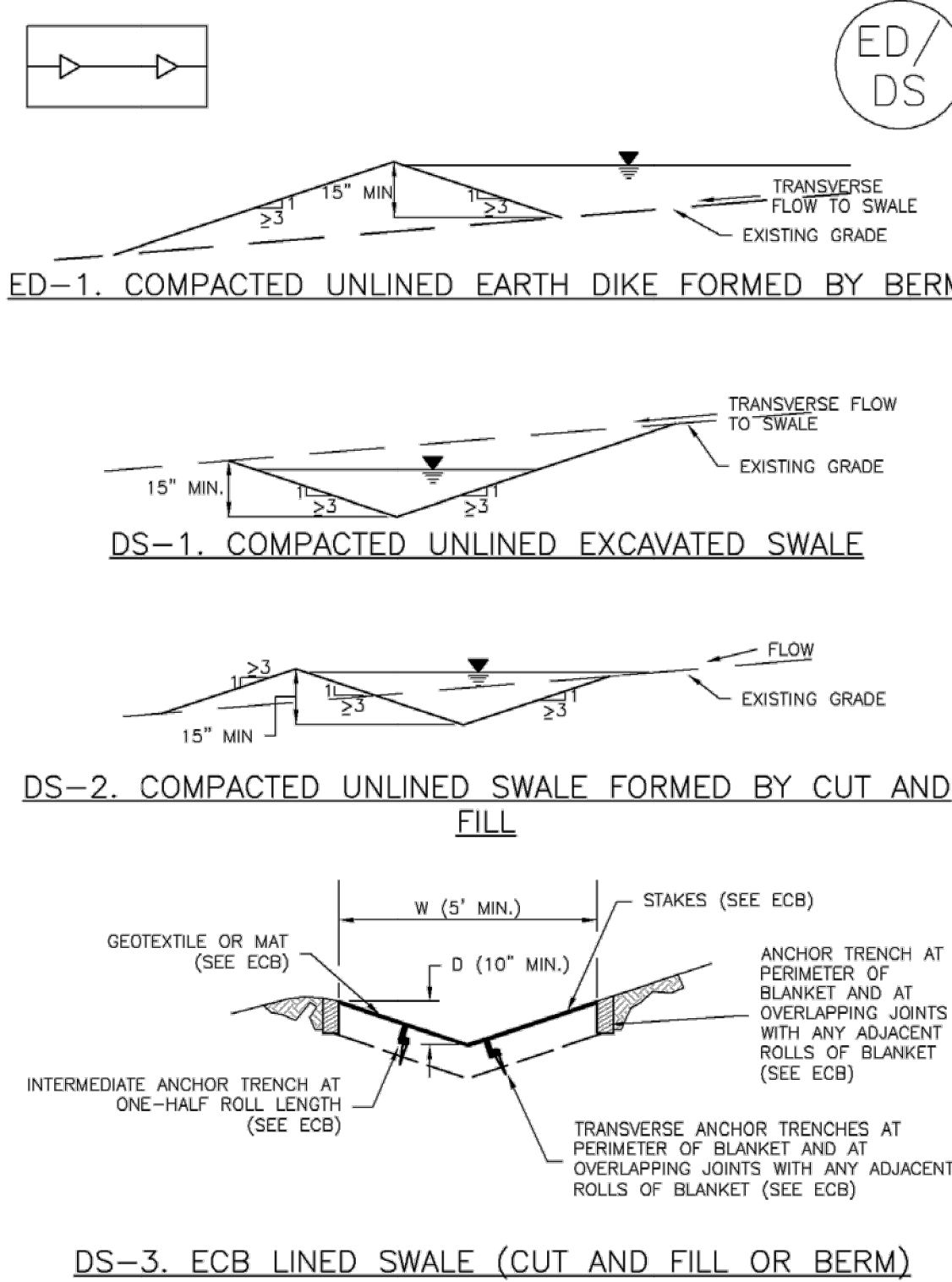
SM-9



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Urban Storm Drainage Criteria Manual Volume 3 DW-3

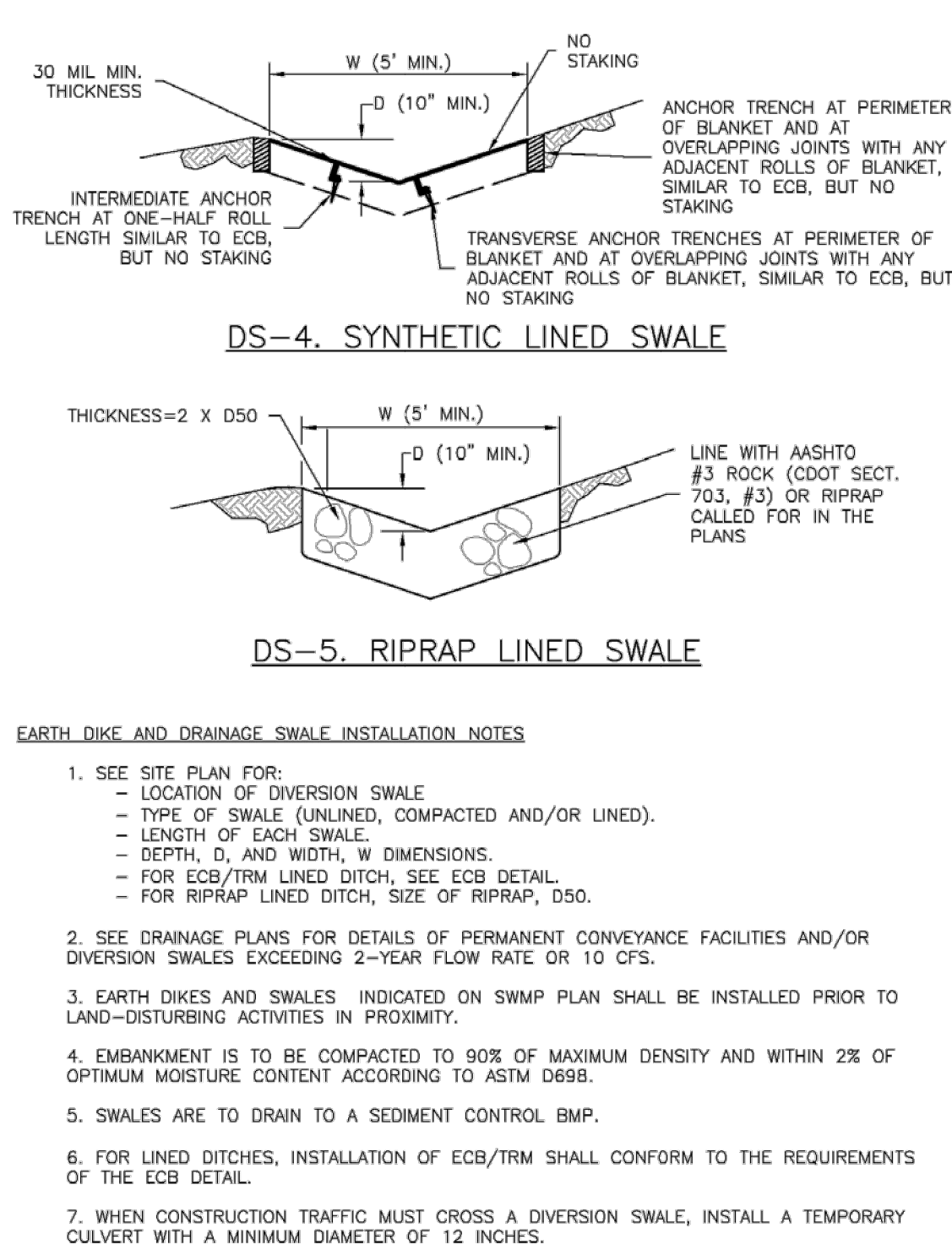
Earth Dikes and Drainage Swales (ED/DS)

EC-10



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Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

EC-10 Earth Dikes and Drainage Swales (ED/DS)

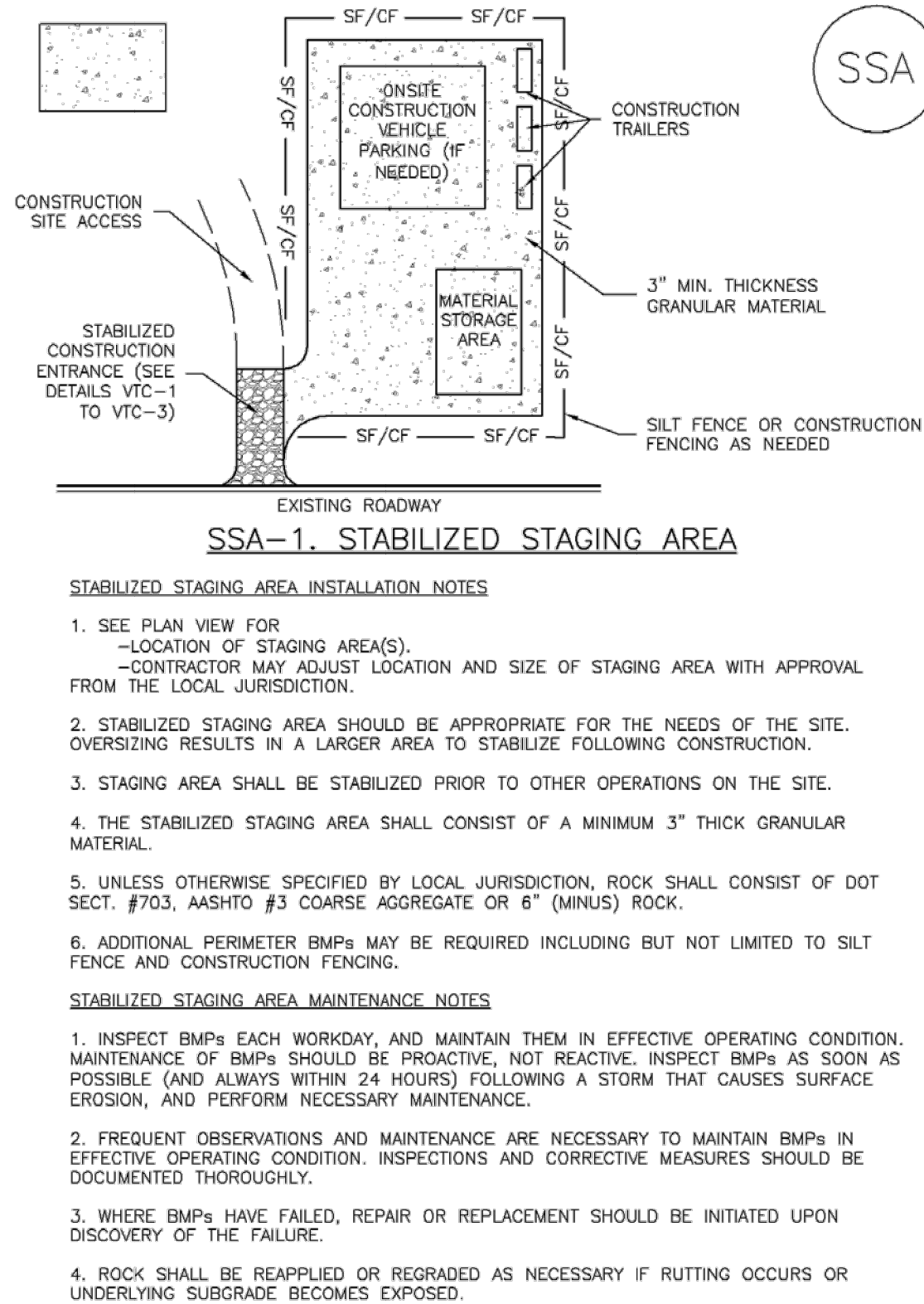


- EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES
- SEE SITE PLAN FOR:
    - LOCATION OF DIVERSION SWALE
    - TYPE OF SWALE (UNLINED, COMPACTED AND/OR UNLINED).
    - LENGTH OF EACH SWALE.
    - DEPTH, D, AND WIDTH, W, DIMENSIONS.
    - FOR ECB/TRM LINED DITCH, SEE ECB DETAIL.
    - FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, D50.
  - SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.
  - EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY.
  - EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
  - SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
  - FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.
  - WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

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Stabilized Staging Area (SSA)

SM-6

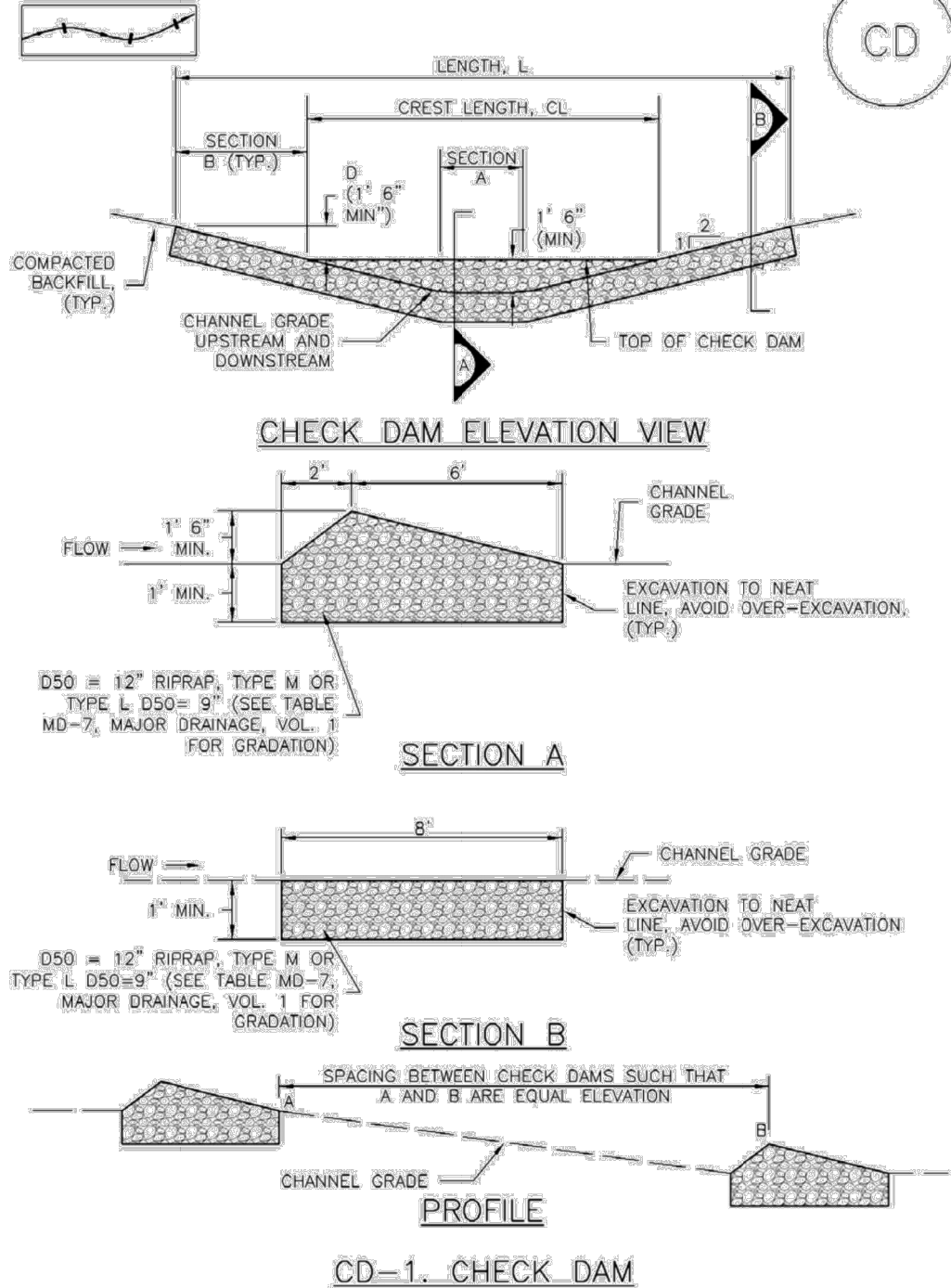


- STABILIZED STAGING AREA INSTALLATION NOTES
- SEE PLAN VIEW FOR:
    - LOCATION OF STAGING AREA(S).
    - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
  - STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
  - STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
  - THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
  - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
  - ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.
- STABILIZED STAGING AREA MAINTENANCE NOTES
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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Check Dams (CD)

EC-12



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

EC-12

Check Dams (CD)

- CHECK DAM INSTALLATION NOTES
- SEE PLAN VIEW FOR:
    - LOCATION OF CHECK DAMS.
    - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
    - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
  - CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
  - RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
  - RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1".
  - THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.
- CHECK DAM MAINTENANCE NOTES
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
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  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
  - CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM IURCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CD-4 Urban Drainage and Flood Control District  
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ENGINEER'S STATEMENT

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Mike A. Bramlett  
COLORADO REGISTERED PROFESSIONAL ENGINEER  
32314  
DATE 7/18/23  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, INC.

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