

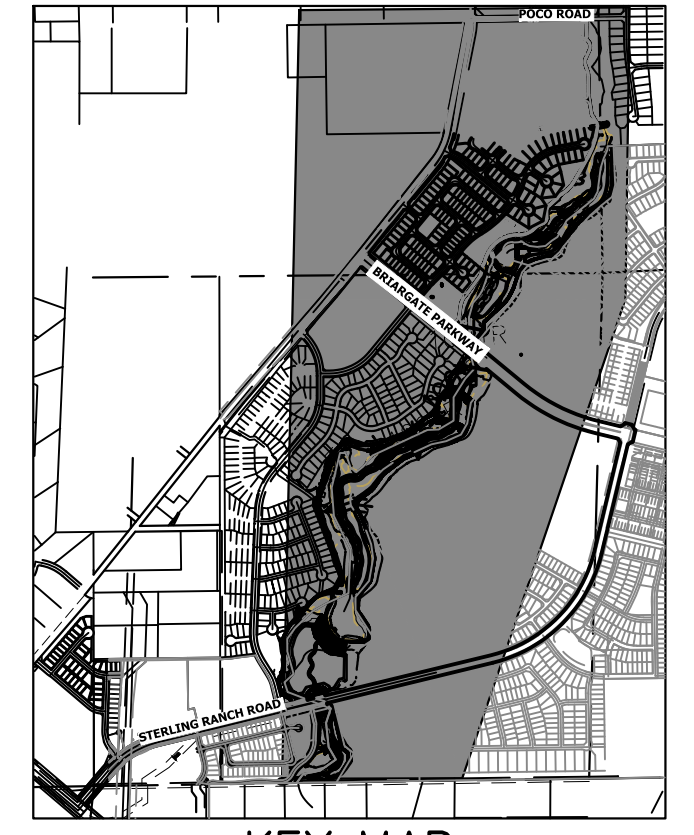
GEC INDEX SHEET
SCALE: 1" = 400'

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", 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 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 SOUTHWEST 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.



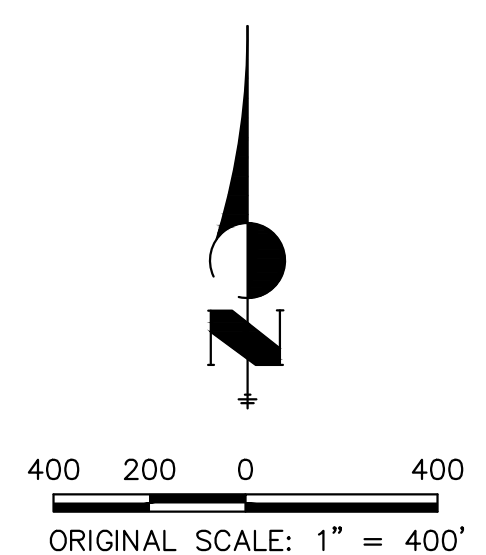
KEY MAP
SCALE: 1"=2000'

LEGEND

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

NOTES

SEE SHEET 2 FOR VEGETATIVE RESTORATION NOTES.



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

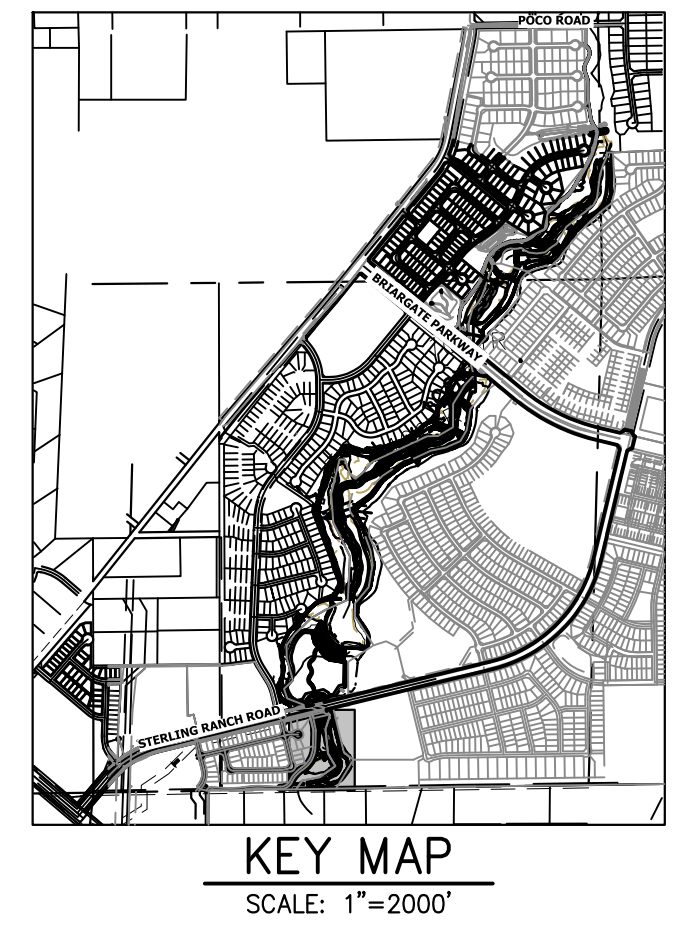
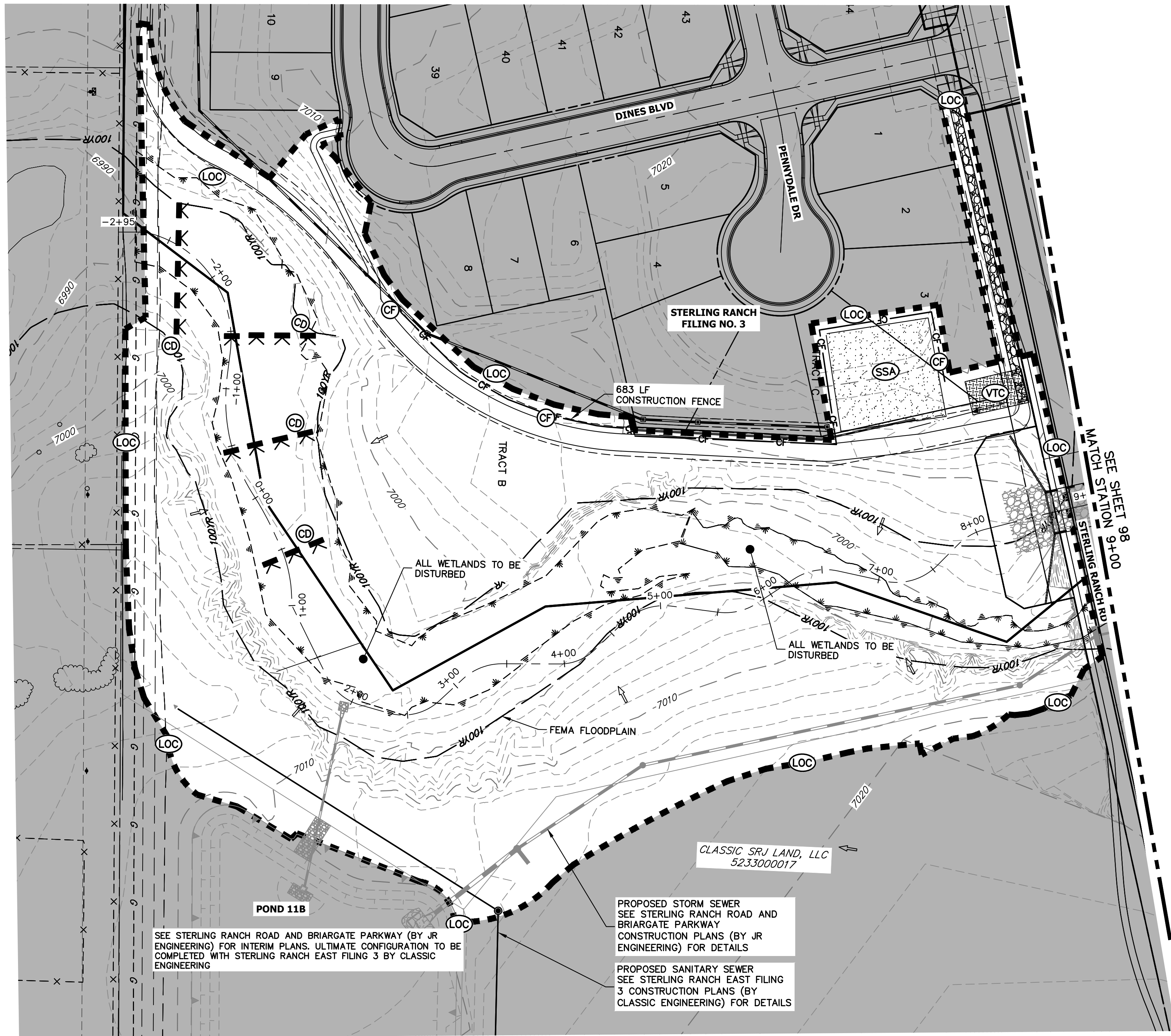
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Mike A. Bramlett 11/20/23
MIKE A. BRAMLETT, P.E. 32314
COLORADO P.E. 32314 DATE
FOR AND ON BEHALF OF JR ENGINEERING, INC.



Know what's below.
Call before you dig.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE 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 Westman Company Central 303-740-9888 • Colorado Springs 719-583-2583 Fort Collins 970-491-9888 • www.jrengineering.com	BY	DATE	
			No.	REVISION	
H-SCALE	1"=400'	V-SCALE	N/A	DESIGNED BY	DJV
DATE	11/20/23	DRAWN BY	WLL	CHECKED BY	
SAND CREEK RESTORATION		GEC PLANS		SHEET	96 OF 121
JOB NO.		25188.04			



PREPARED FOR
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 20 BOULDER CRESCENT
 2ND FLOOR
 COLORADO SPRINGS, CO 80903
 JAMES F. MORLEY
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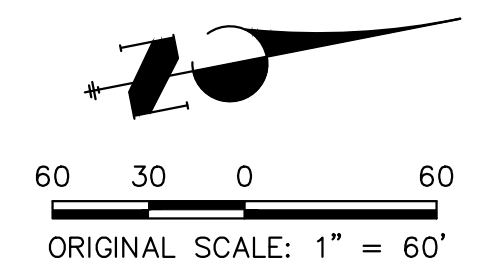
EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING EASEMENT	CONSTRUCTION FENCE	WETLANDS TO REMAIN	SURFACE ROUGHENING
SECTION LINE	CONSTRUCTION FENCE	PERMANENT LANDSCAPING	
EXISTING STORM SEWER	SILT FENCE	GEOTEXTILE	
EXISTING CURB & GUTTER	VEHICLE TRACKING CONTROL	COIR MATTING	
PROPOSED RIGHT OF WAY LINE	VEHICLE TRACKING CONTROL	ARTICULATED CONCRETE	
PROPOSED EASEMENT	STABILIZED STAGING AREA		
PROPOSED STORM SEWER	STABILIZED STAGING AREA		
PROPOSED CURB & GUTTER	CONCRETE WASHOUT AREA		
PROPOSED TOP OF SLOPE	CONCRETE WASHOUT AREA		
PROPOSED TOE OF SLOPE	STOCK PILE		
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2681	LF	-	SILT FENCE (SF)
18900	LF	-	CONSTRUCTION FENCE (CF)
4	EA	-	CHECK DAMS (CD)
4	LS	-	STABILIZED STAGING AREA (SSA)
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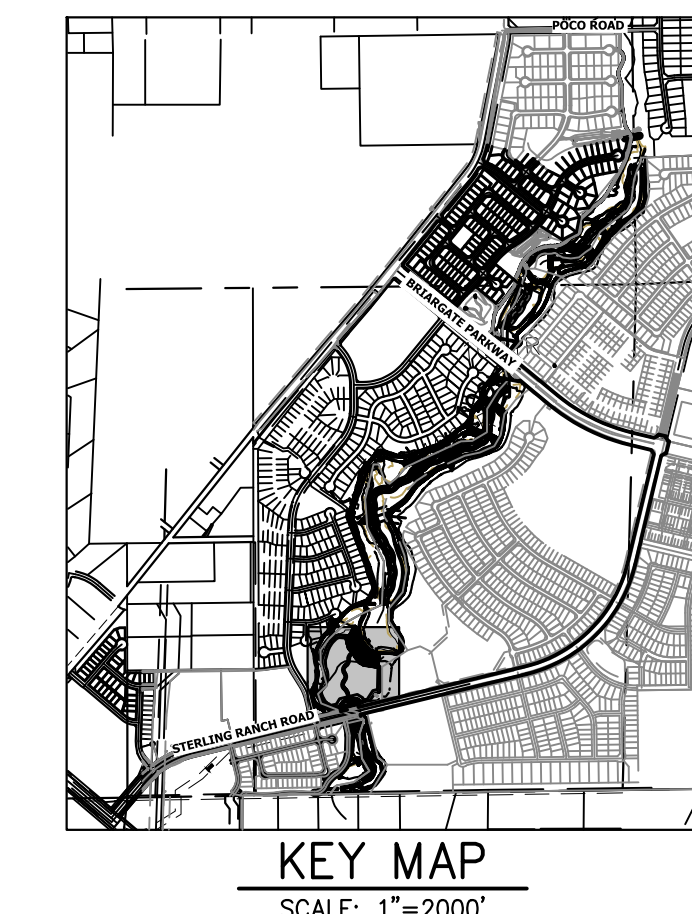
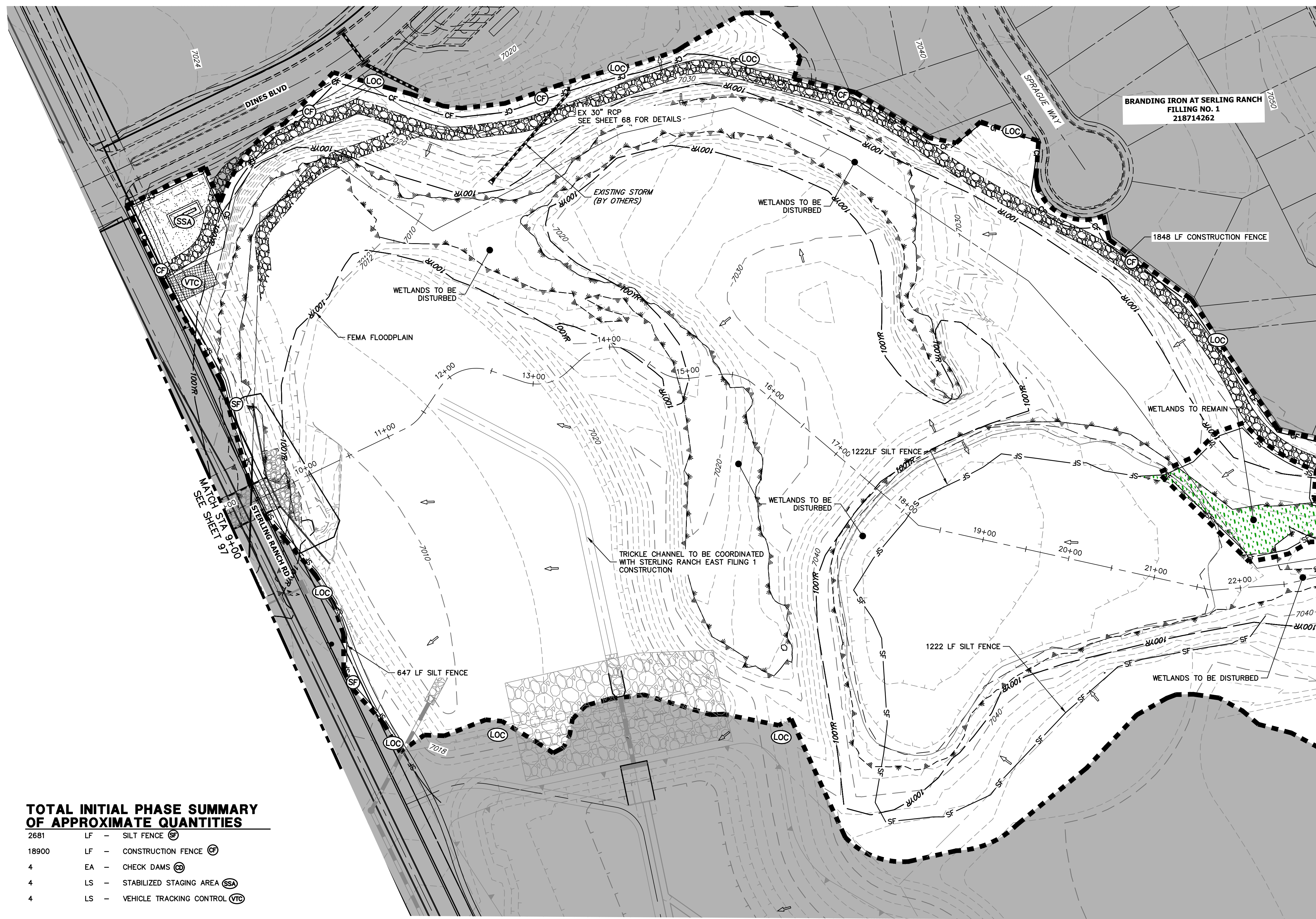
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Mike Bramlett
 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING, INC.

32314
 11/20/23



SAND CREEK RESTORATION	GEC INITIAL	SHEET 97 OF 121
		JOB NO. 25188.04



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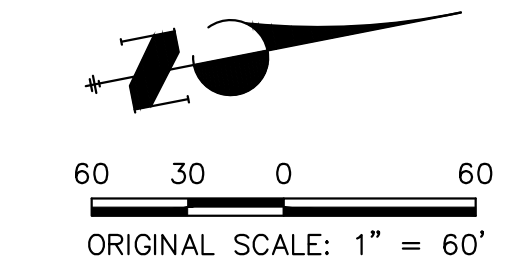
LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION (RRB)	DEWATERING (DW)
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION (LOC)	SEDIMENT CONTROL LOG (SCL)	TEMPORARY SEDIMENTATION BASIN (SB)
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE (DS)	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX (SM)	CHECK DAM (CD)
EXISTING EASEMENT	CONSTRUCTION FENCE (CF)	WETLANDS TO REMAIN	SURFACE ROUGHENING (SR)
SECTION LINE	SILT FENCE (SF)	PERMANENT LANDSCAPING (LS)	
EXISTING STORM SEWER	VEHICLE TRACKING CONTROL (VTC)	GEOTEXTILE (ECB)	
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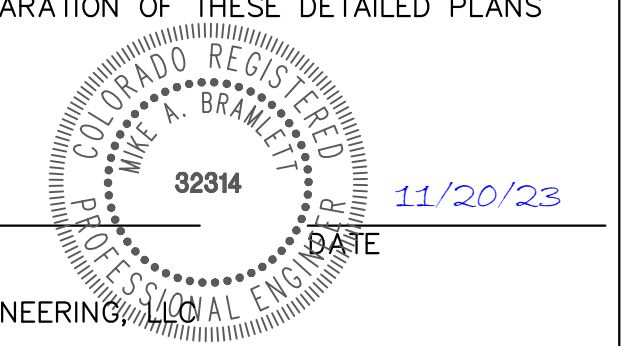
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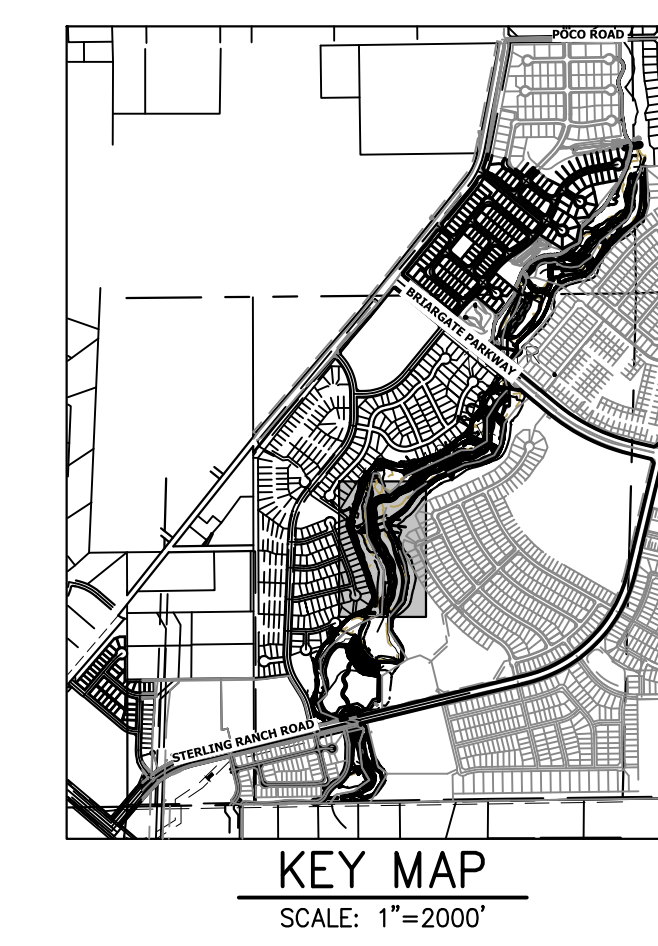
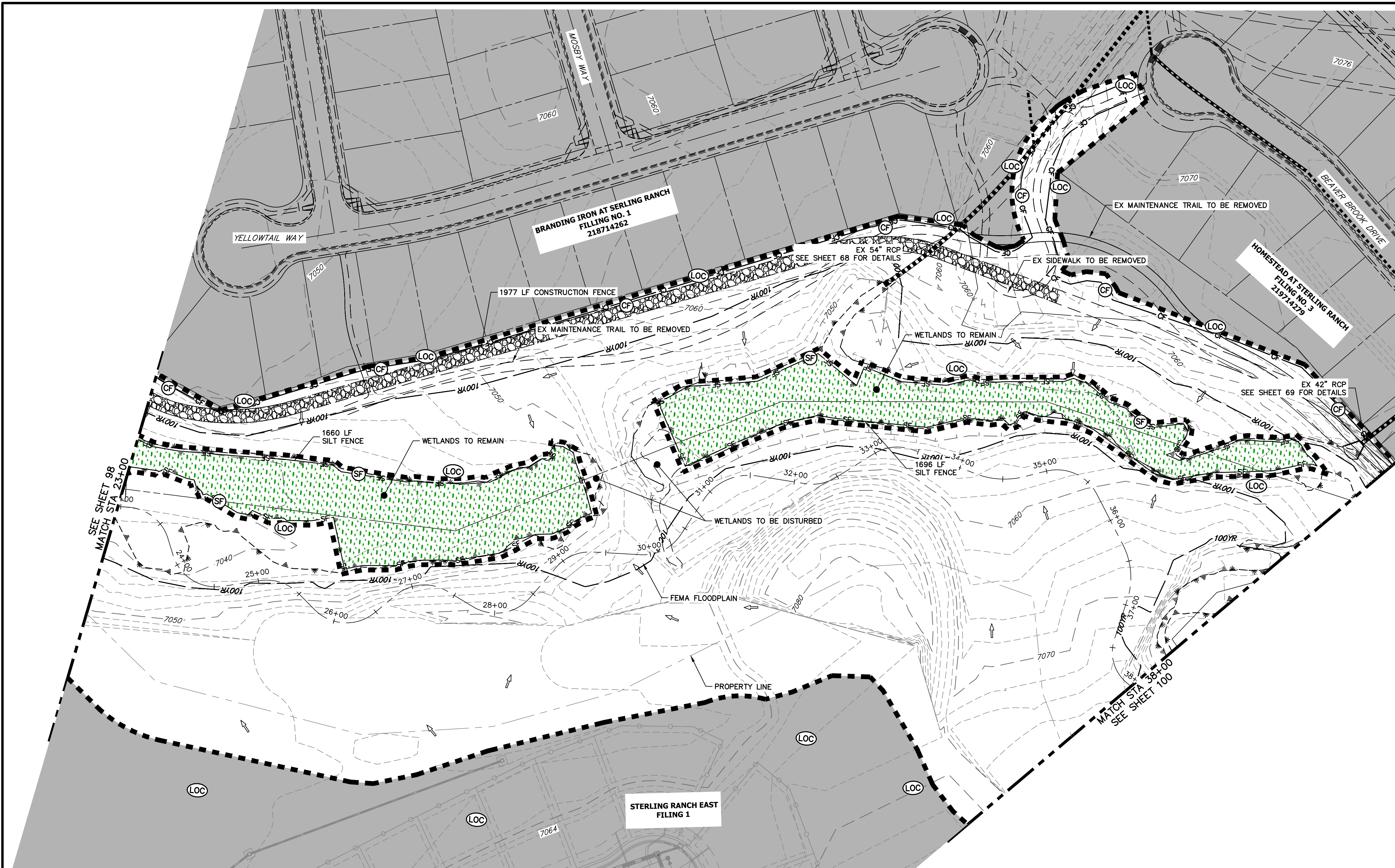
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PREPARED FOR
 SR LAND, LLC
 20 BOULDER CRESCENT
 2ND FLOOR
 COLORADO SPRINGS, CO 80903
 JAMES F. MORLEY
 (719) 419-3024

J.R. ENGINEERING
 A Westman Company
 Centennial 303-740-9888 • Colorado Springs 719-583-2683
 Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

SAND CREEK RESTORATION	H-SCALE	1"=60'	V-SCALE	N/A	DATE	11/20/23	DESIGNED BY	DJV	DRAWN BY	WLL	CHECKED BY
	GEC INITIAL										
SHEET 98 OF 121											
JOB NO. 25188.04											



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 Fort Collins 970-491-9888 • www.jrengineering.com

BY DATE		No. REVISION	
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CHECKED BY	DRAWN BY	WALL	

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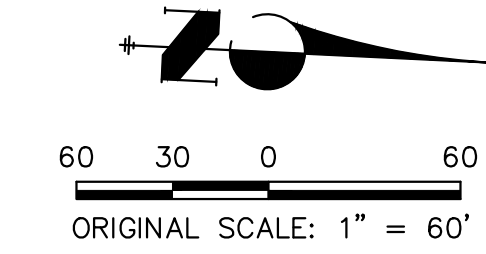
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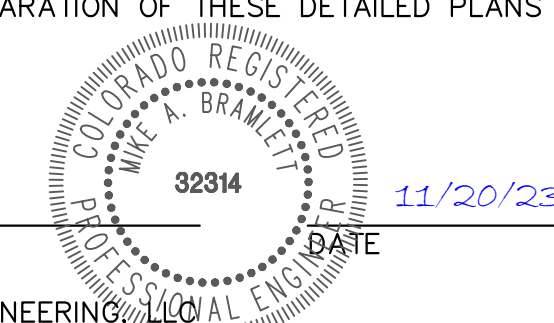
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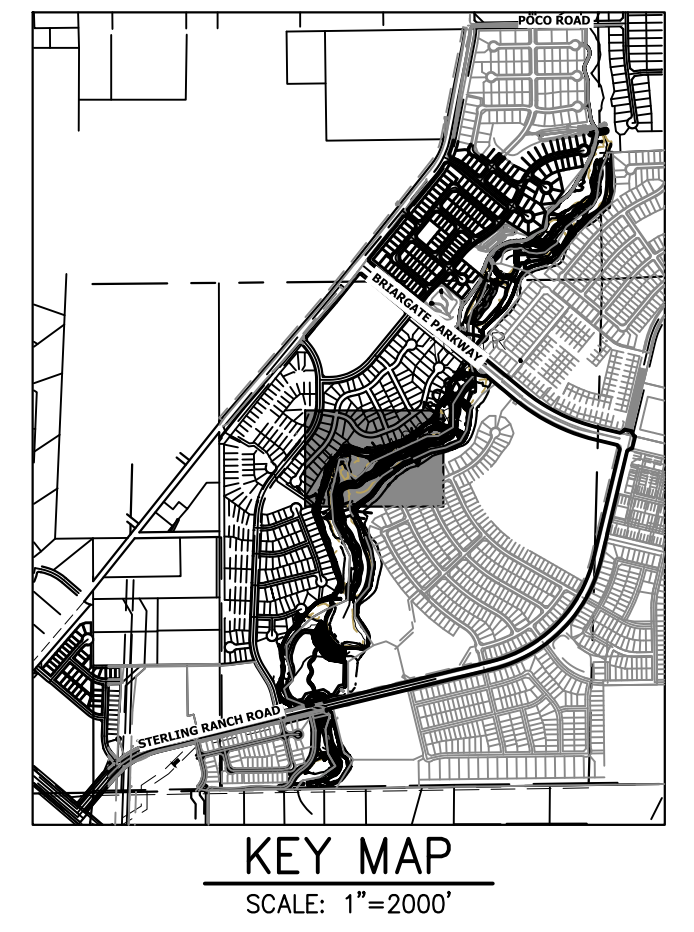
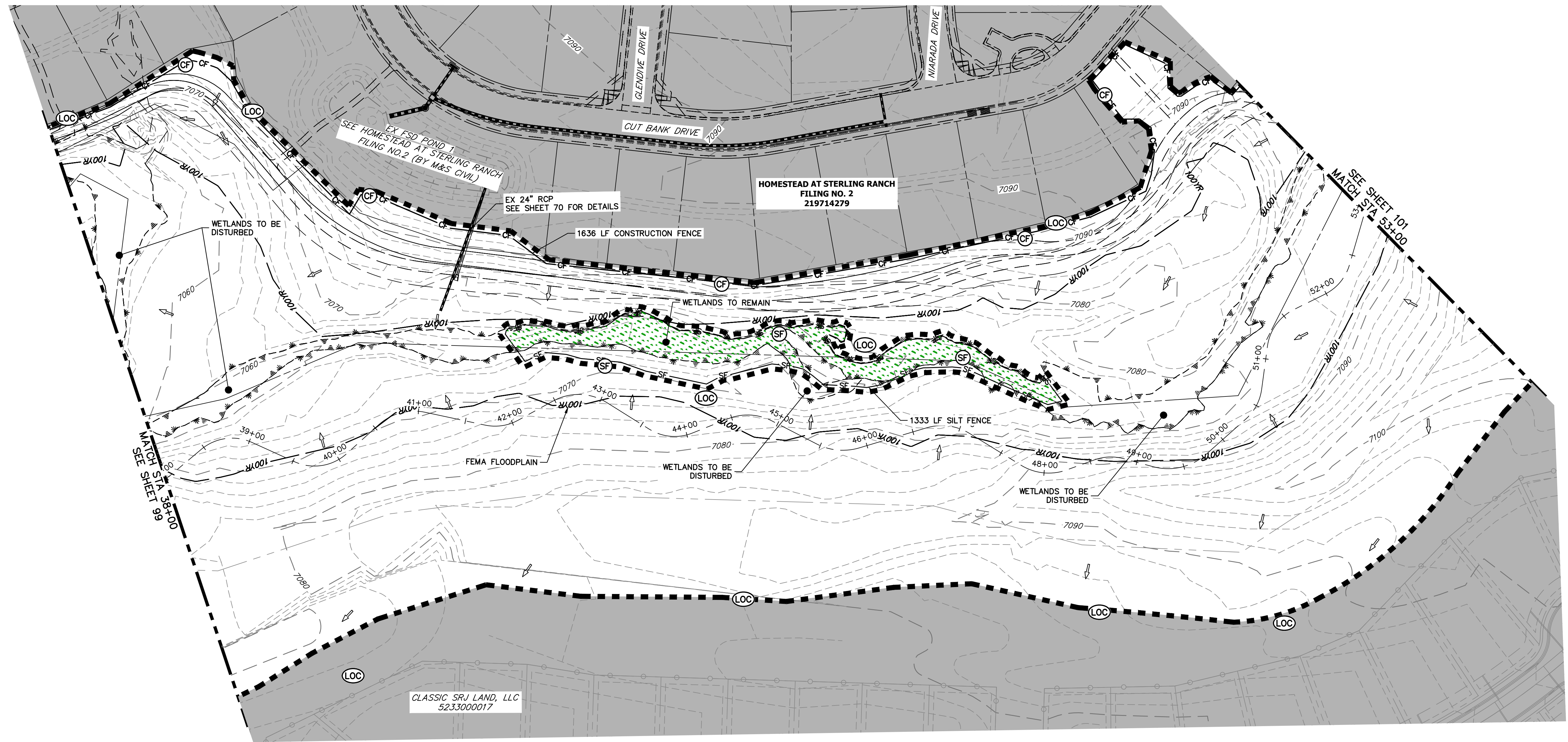


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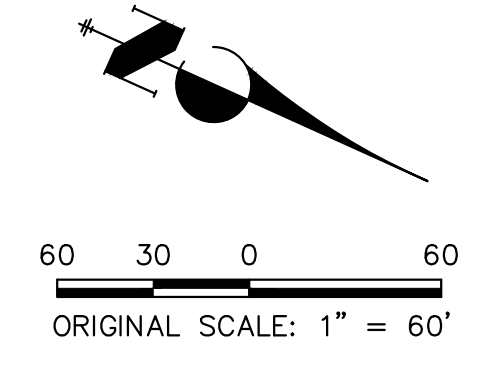
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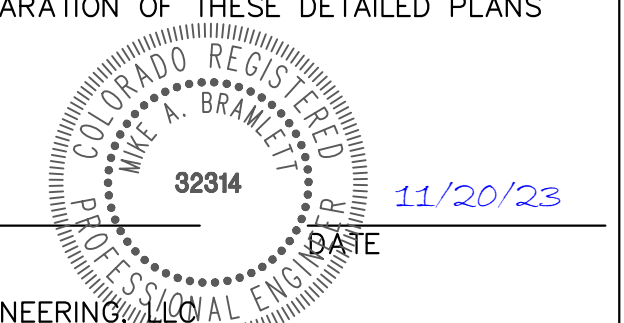
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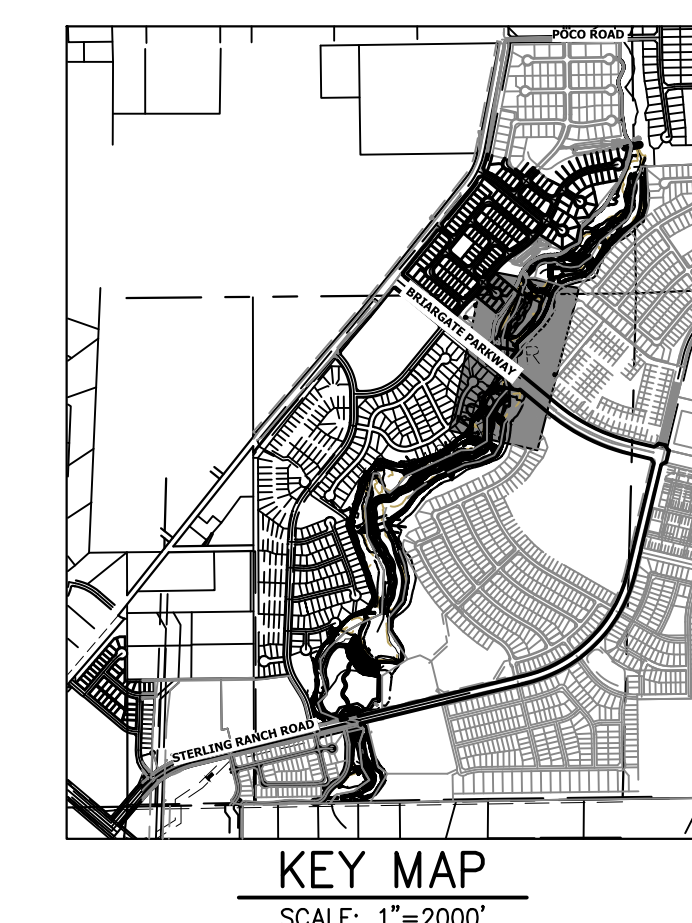
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 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING



BY	DATE	No.	REVISION

H-SCALE	1"=60'
V-SCALE	N/A
DATE	11/20/23
DESIGNED BY	DJV
DRAWN BY	WLL
CHECKED BY	

SAND CREEK RESTORATION	GEC INITIAL
SHEET 100 OF 121	JOB NO. 25188.04



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 Westman Company
 Central 303-740-9383 • Colorado Springs 719-583-2593
 Fort Collins 970-491-9888 • www.jrengineering.com



LEGEND

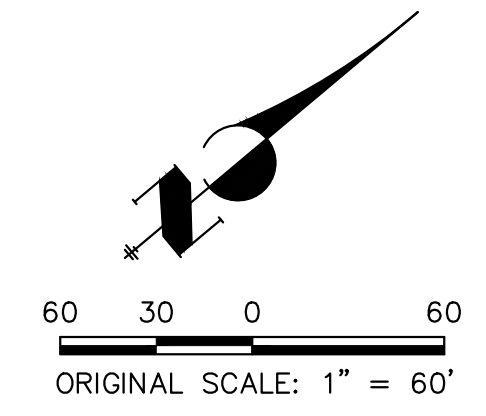
EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE	PERMANENT SEEDING AND MULCHING - NATIVE REVEGETATION SEED MIX	CHECK DAM
EXISTING 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	ARTICULATED CONCRETE	
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.

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

2681	LF - SILT FENCE
18900	LF - CONSTRUCTION FENCE
4	EA - CHECK DAMS
4	LS - STABILIZED STAGING AREA
4	LS - VEHICLE TRACKING CONTROL

- 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 PANNEE 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



ENGINEER'S STATEMENT

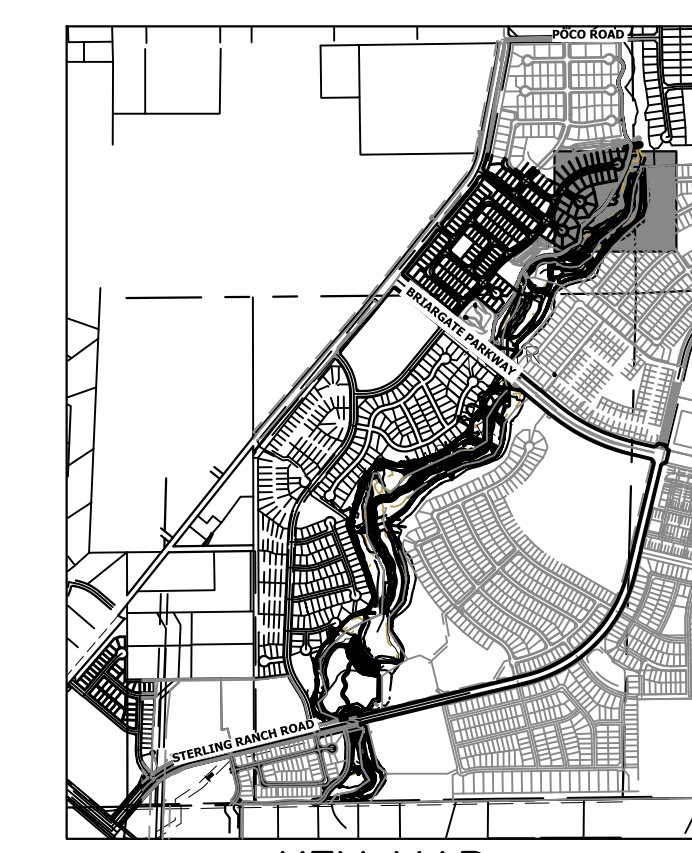
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MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING

DATE: 11/20/23

SAND CREEK RESTORATION	GEC INITIAL	DESIGNED BY	DJV
		DRAWN BY	WLL
SHEET 101	OF 121		
JOB NO.	25188.04		

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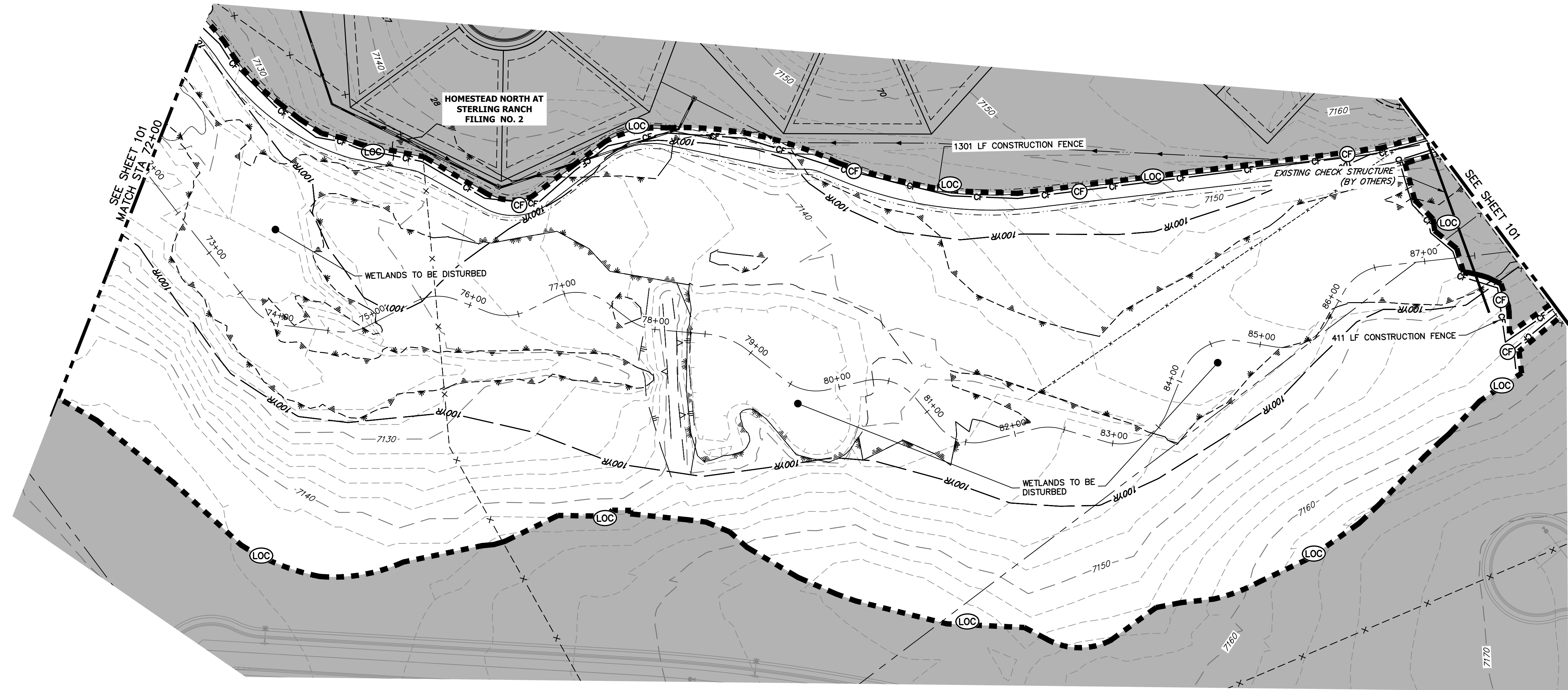


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TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

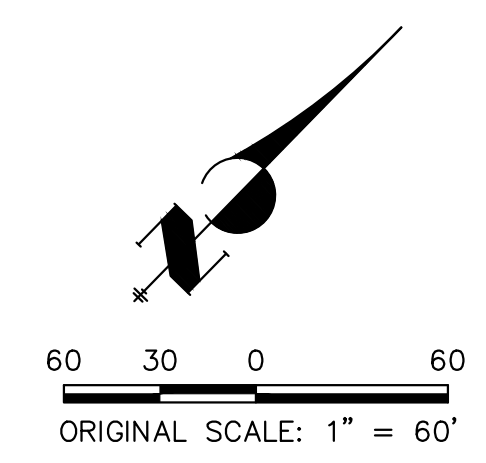
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18900	LF	-	CONSTRUCTION FENCE (CF)
4	EA	-	CHECK DAMS (CD)
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4	LS	-	VEHICLE TRACKING CONTROL (VTC)

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION
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 ELEVATION = 7023.42
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BASIS OF BEARINGS

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LEGEND

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

SAND CREEK RESTORATION	H-SCALE	1"=60'	DESIGNED BY	DJV
	V-SCALE	N/A	DRAWN BY	WUL
	DATE	11/20/23	CHECKED BY	
GEC INITIAL				
SHEET 102 OF 121		JOB NO. 25188.04		

ENGINEER'S STATEMENT

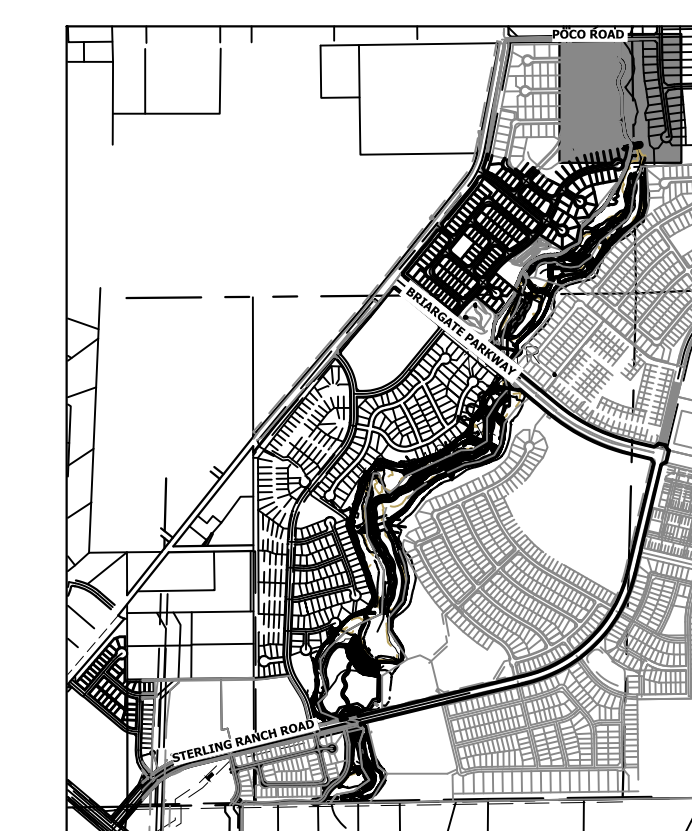
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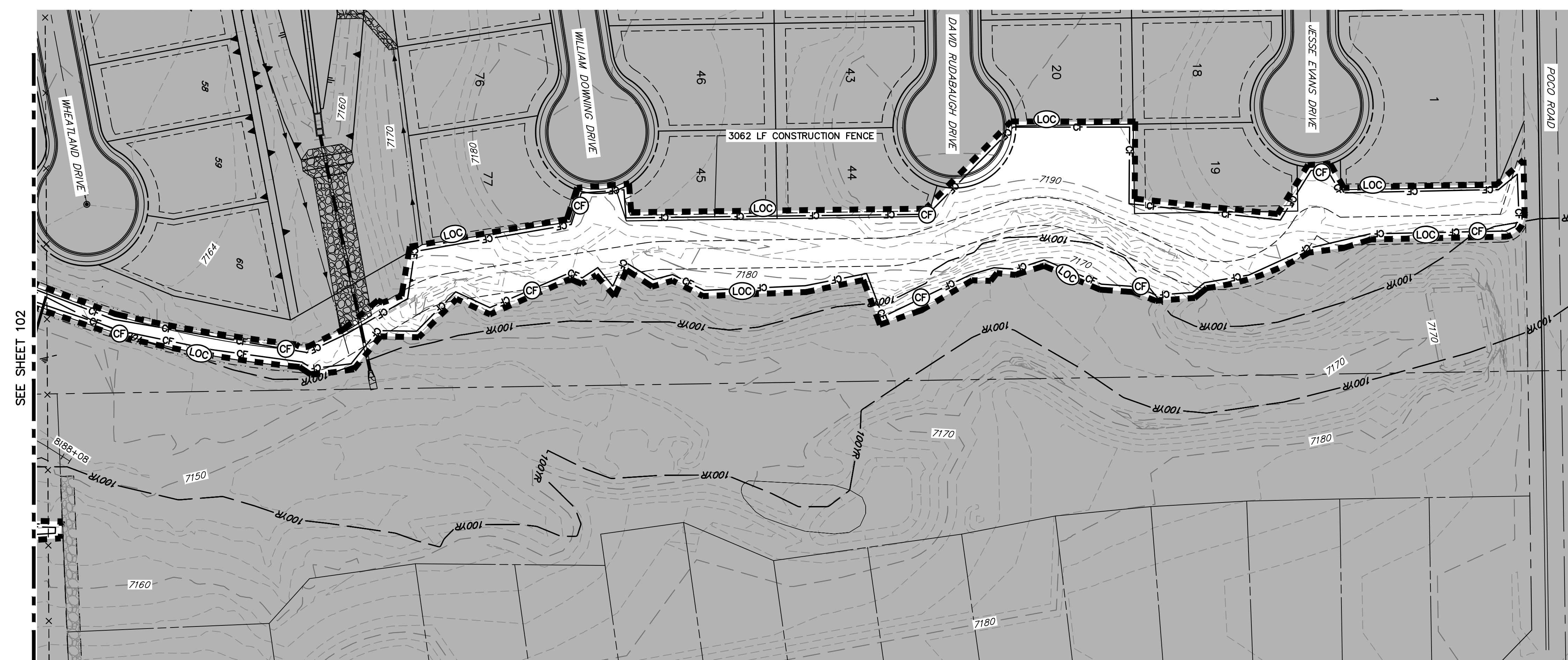
Mike Bramlett
 11/20/23

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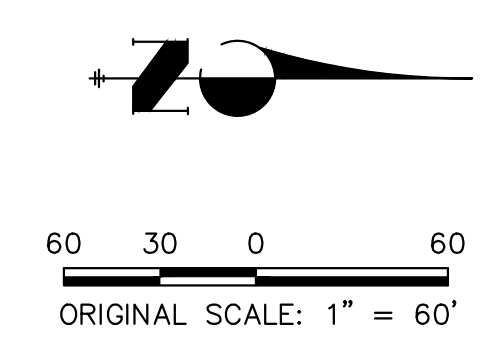


KEY MAP
SCALE: 1"=2000'



TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

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

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION (RRB)	DEWATERING (DW)
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ELEVATION = 7000.40
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NORTHING = 411399.962
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ENGINEER'S STATEMENT

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Mike Bramlett
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, INC.
DATE: 11/20/23

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PREPARED FOR
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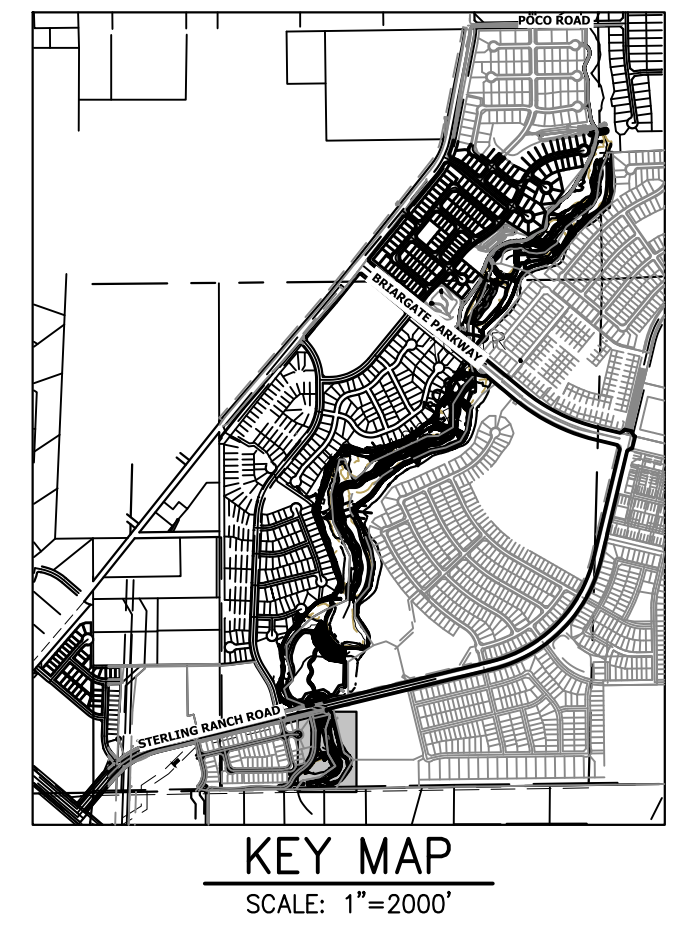
H-SCALE	1"=60'
V-SCALE	N/A
DATE	11/20/23
DESIGNED BY	DJV
DRAWN BY	WLL
CHECKED BY	

SAND CREEK RESTORATION

GEC INITIAL

SHEET 103 OF 121

JOB NO. 25188.04



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TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

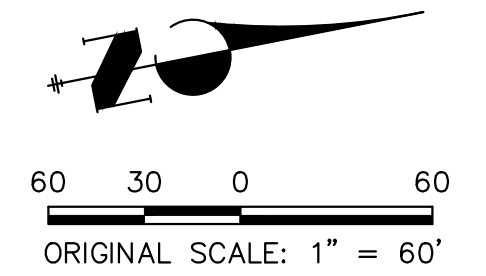
9	EA	-	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
3	EA	-	CONCRETE WASHOUT AREA	(CWA)
15	EA	-	CHECK DAMS	(CD)
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1	EA	-	TEMPORARY SEDIMENT BASIN	(SB)

LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)	DEWATERING	(DW)
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SECTION LINE	VEHICLE TRACKING CONTROL (VTC)	PERMANENT LANDSCAPING	(LS)		
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ENGINEER'S STATEMENT

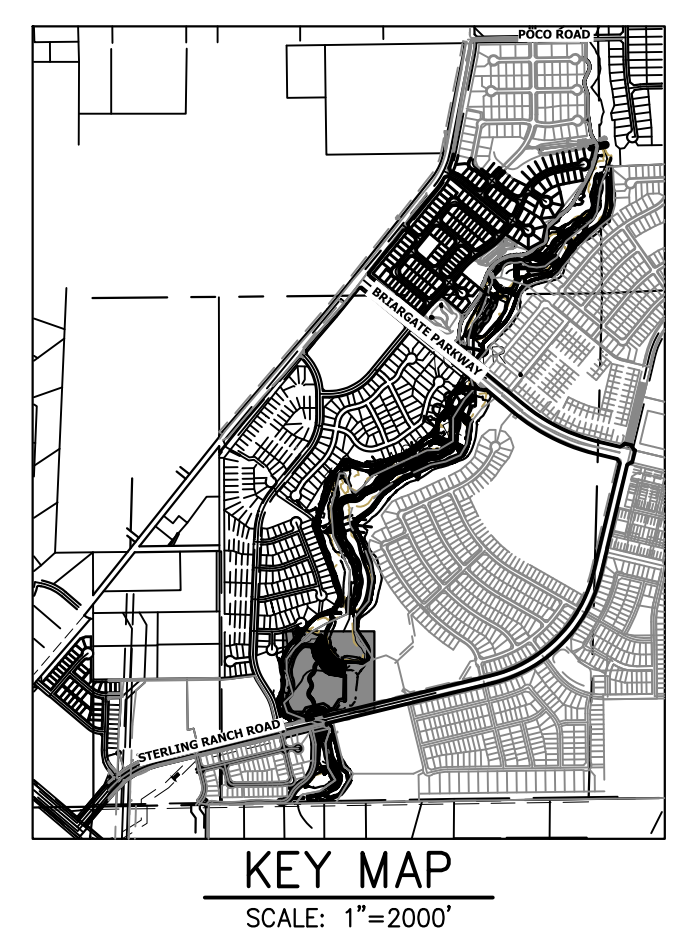
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COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING

32314
11/20/23



SAND CREEK RESTORATION	GEC INTERIM	BY	DATE						
		No.	REVISION						
H-SCALE	1"=60'								
V-SCALE	N/A								
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NO.	REVISION	BY	DATE

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.

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		
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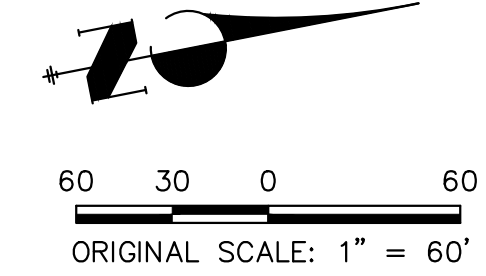
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ENGINEER'S STATEMENT

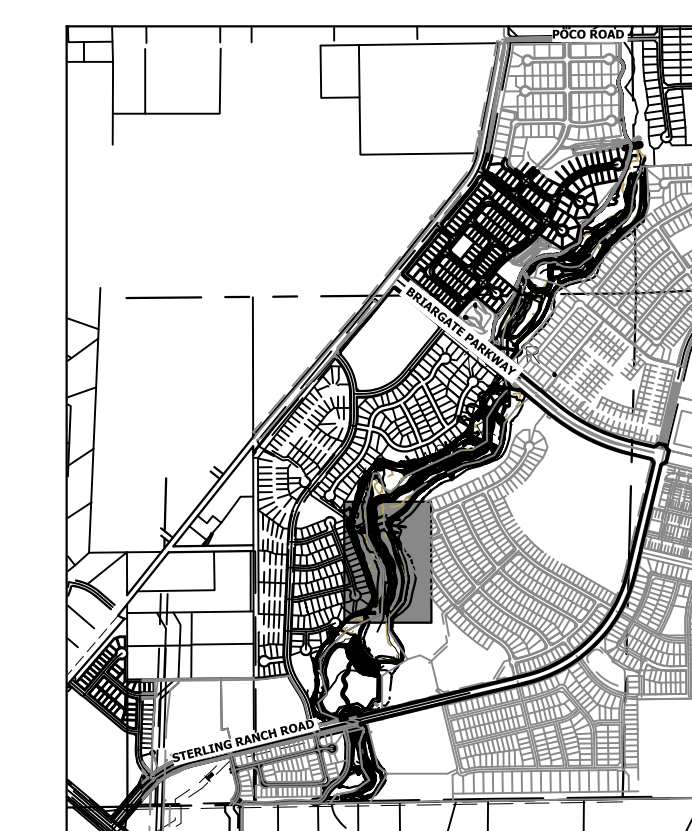
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Mike Bramlett
 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING, INC.

32314
 11/20/23

SAND CREEK RESTORATION	GEC INTERIM	SHEET 105 OF 121
		JOB NO. 25188.04

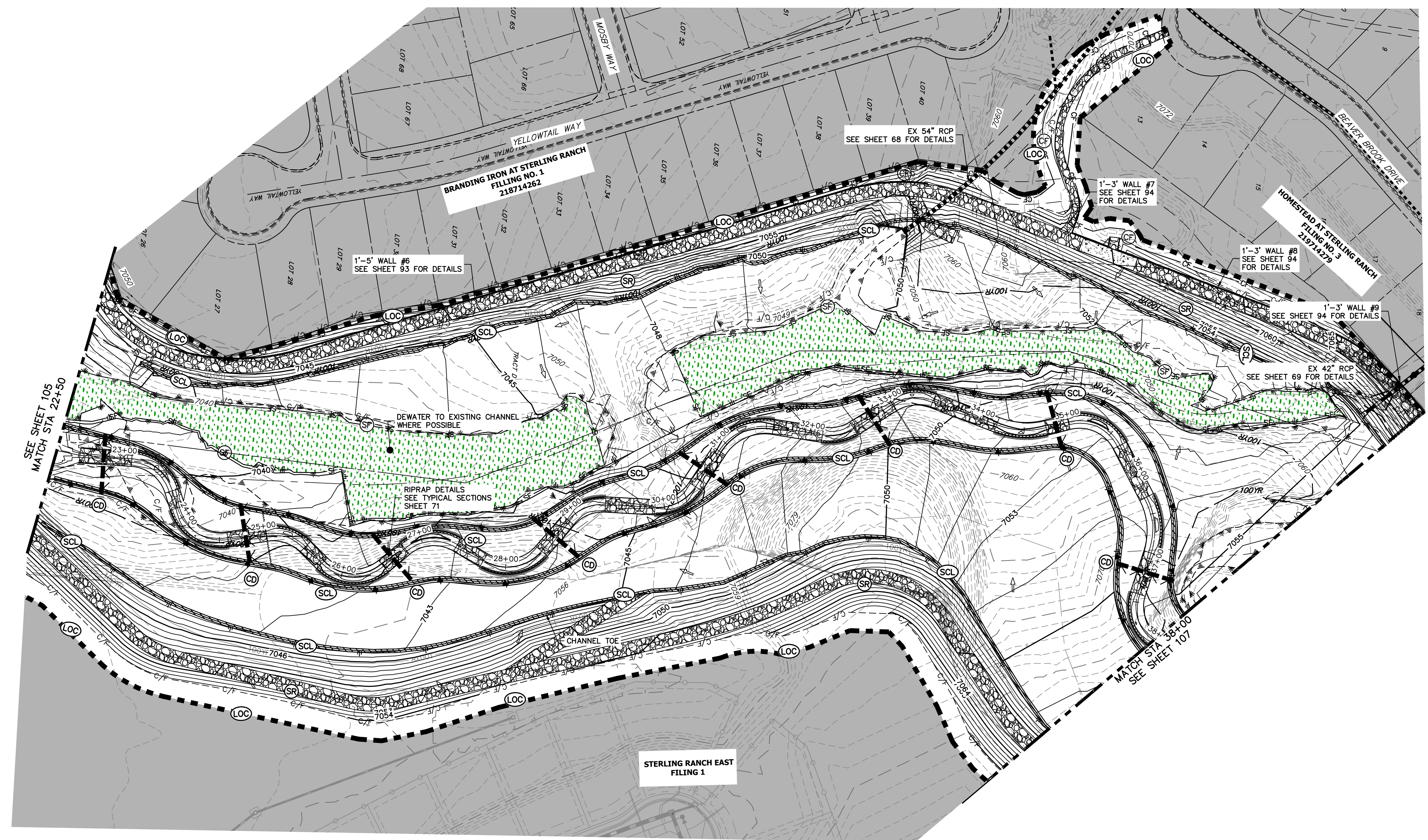
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PREPARED FOR
SR LAND, LLC
 20 BOULDER CRESCENT
 2ND FLOOR
 COLORADO SPRINGS, CO 80903
 JAMES F. MORLEY
 (719) 419-3024

J.R. ENGINEERING
 A Westman Company
 Centennial 303-740-9888 • Colorado Springs 719-583-2583
 Fort Collins 970-491-9888 • www.jrengineering.com



SEE SHEET 105
 MATCH STA 22+50

MATCH STA 38+00
 SEE SHEET 107

**STERLING RANCH EAST
 FILING 1**

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	ARTICULATED CONCRETE	
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			

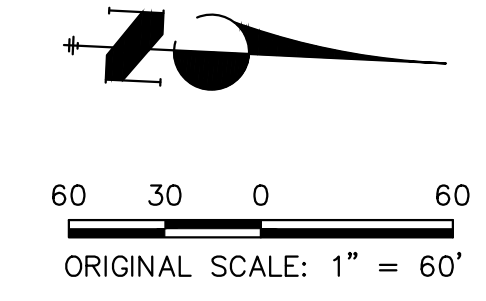
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 OF APPROXIMATE QUANTITIES**

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)

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 88°14'14"E, A DISTANCE OF 2,722.69 FEET.

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



ENGINEER'S STATEMENT

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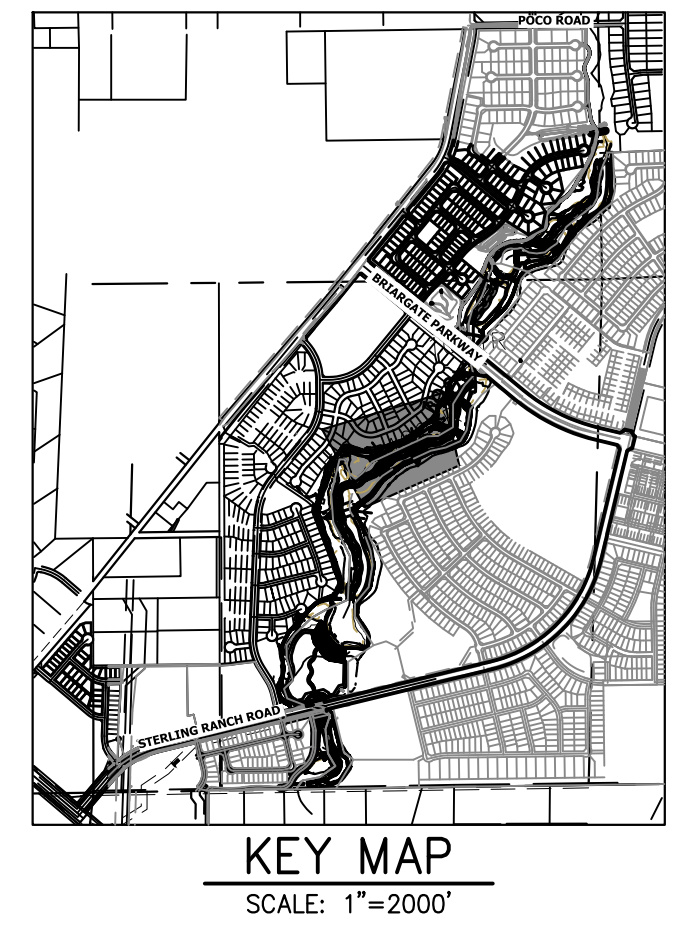
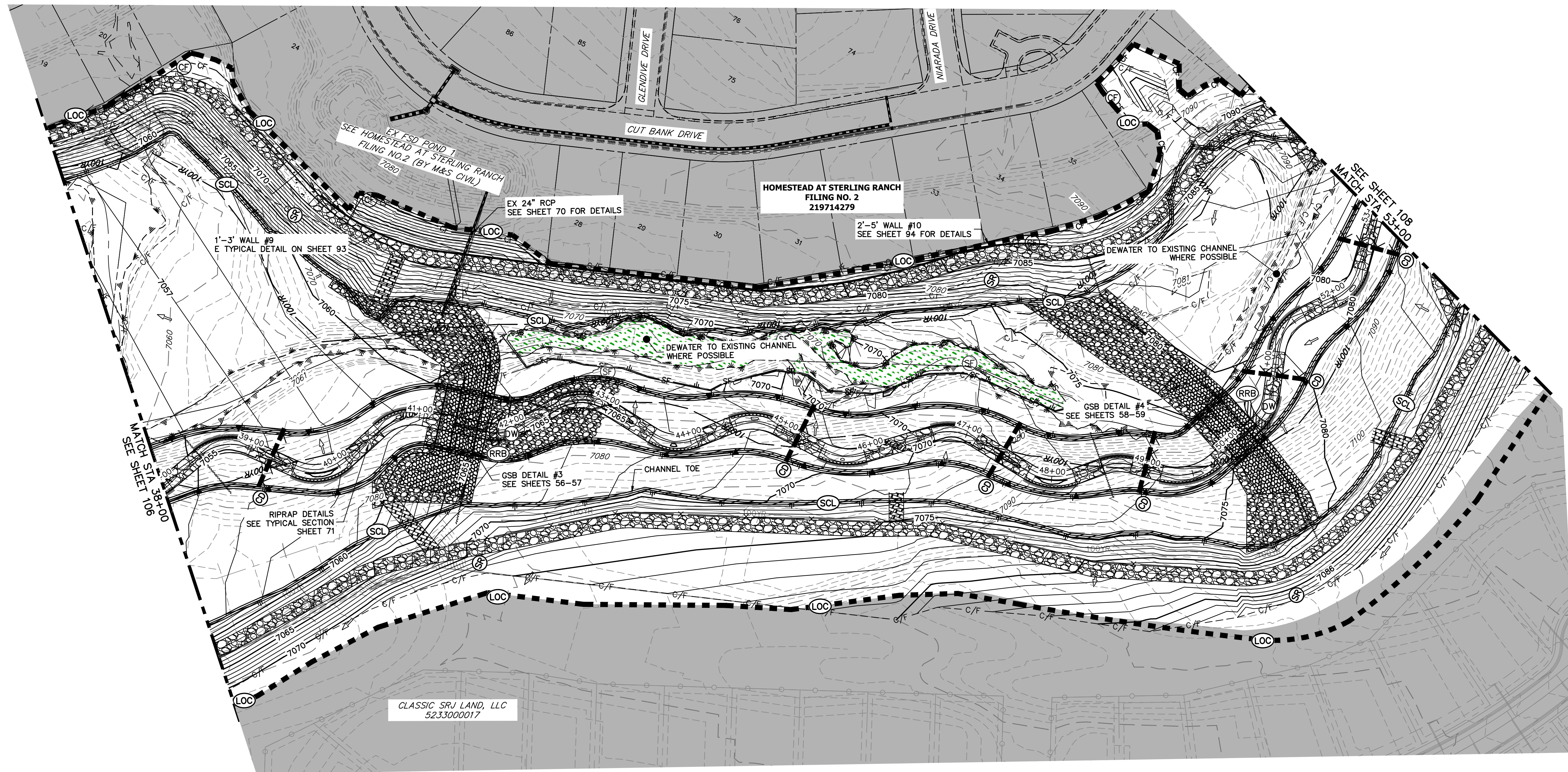
Mike Bramlett
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32314
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SAND CREEK RESTORATION	GEC INTERIM	DESIGNED BY	DJV	WLL
		DRAWN BY		
SHEET 106 OF 121		DATE	11/20/23	
JOB NO. 25188.04		CHECKED BY		

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BY	DATE	NO.	REVISION

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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SECTION LINE	SILT FENCE	PERMANENT LANDSCAPING	
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PROPOSED CURB & GUTTER			
PROPOSED TOP OF SLOPE			
PROPOSED TOE OF SLOPE			
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PROPOSED DRAINAGE ARROW			

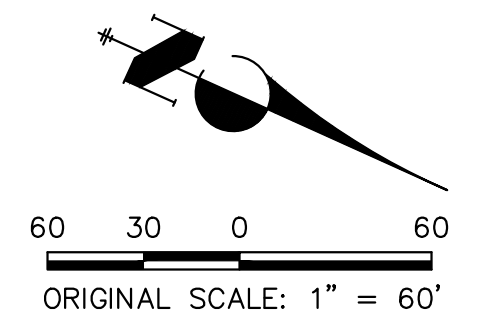
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BENCHMARK

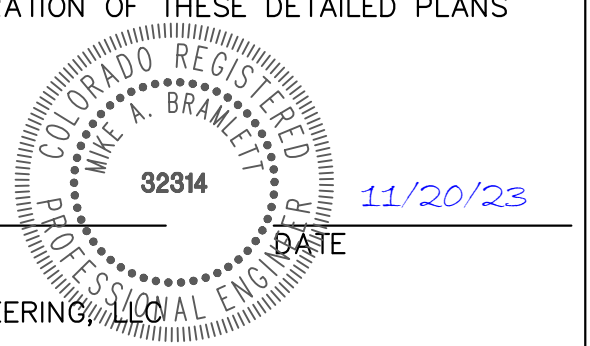
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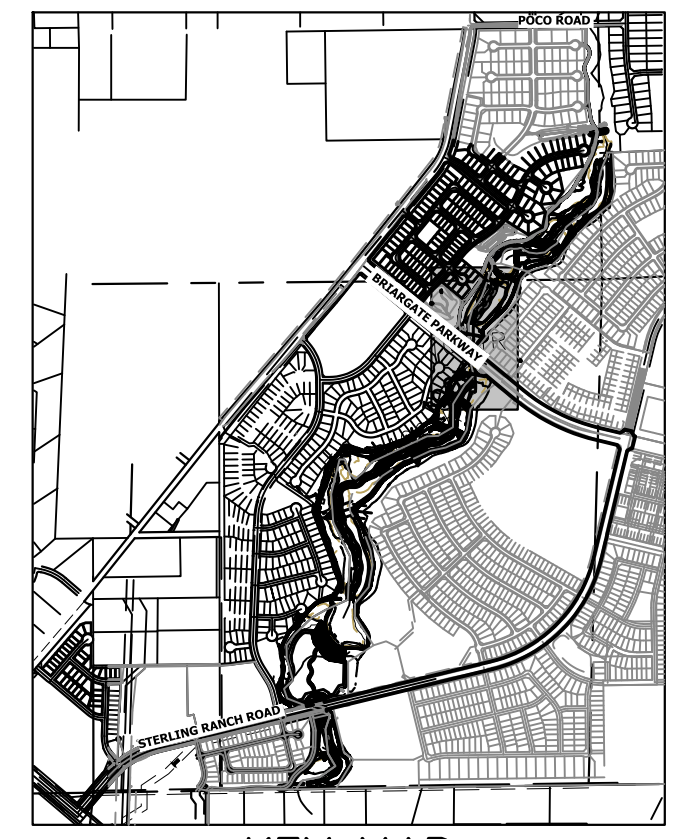
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 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING



SAND CREEK RESTORATION	GEC INTERIM	H-SCALE	1"=60'
		V-SCALE	N/A
		DATE	11/20/23
		DESIGNED BY	DJV
		DRAWN BY	WLL
		CHECKED BY	
		SHEET	107 OF 121
		JOB NO.	25188.04



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BY	DATE	No.	REVISION

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=60'	N/A	11/20/23	DJV	WLL	

LEGEND	
EXISTING CONTOUR	PROPOSED CONTOUR
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EXISTING RIGHT OF WAY LINE	DRAINAGE SWALE
EXISTING EASEMENT	CONSTRUCTION FENCE
SECTION LINE	SILT FENCE
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PROPOSED CURB & GUTTER	
PROPOSED TOP OF SLOPE	
PROPOSED TOE OF SLOPE	
EXISTING DRAINAGE ARROW	
PROPOSED DRAINAGE ARROW	
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SEDIMENT CONTROL LOG	TEMPORARY SEDIMENTATION BASIN
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ARTICULATED CONCRETE	

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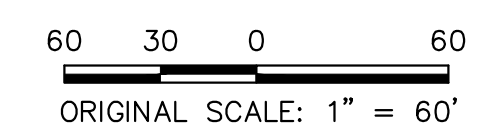
TEMPORARY SEDIMENT BASIN NOTES:

SRMD POND #2 TO BE USED AS A TEMPORARY SEDIMENT BASIN WITH NO RISER PIPE ONCE THE OUTLET STRUCTURE AND AGRIDRAIN HAVE BEEN CONSTRUCTED. UPON COMPLETION OF UPSTREAM CHANNEL IMPROVEMENTS, SRMD POND #2 WILL BE DREDGED OF SEDIMENT AND RETURNED TO PROPOSED GRADING.

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ENGINEER'S STATEMENT

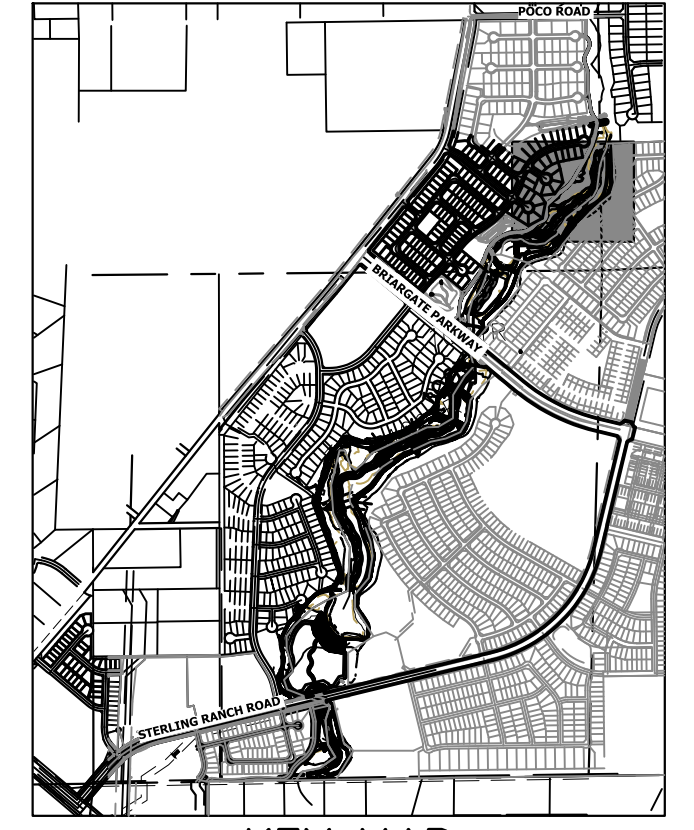
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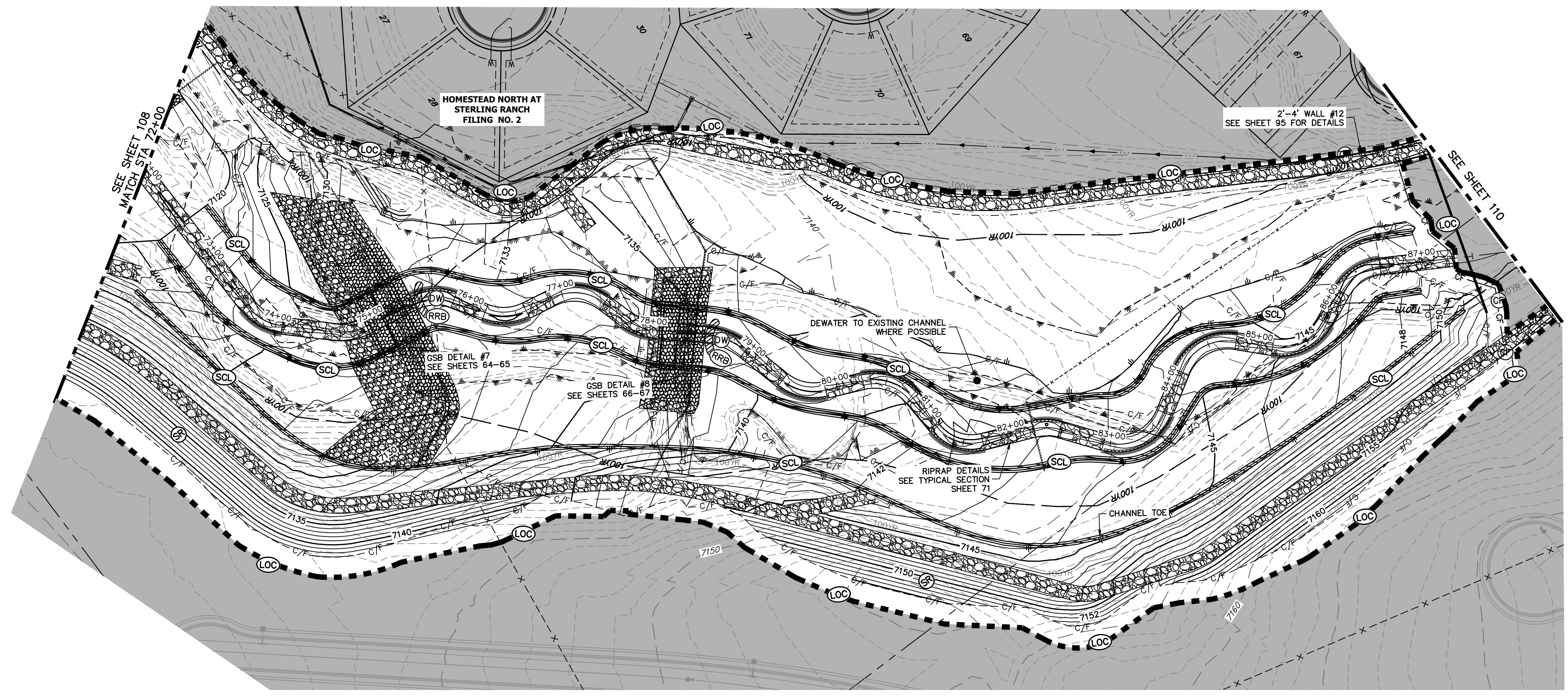
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KEY MAP
 SCALE: 1"=2000'



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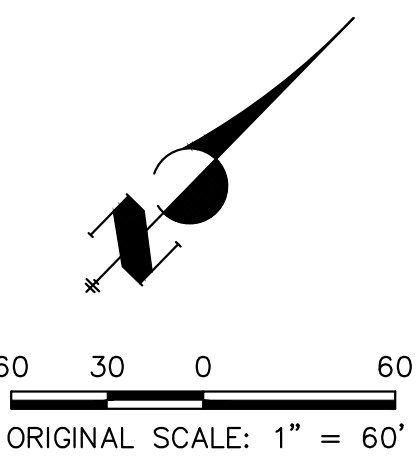
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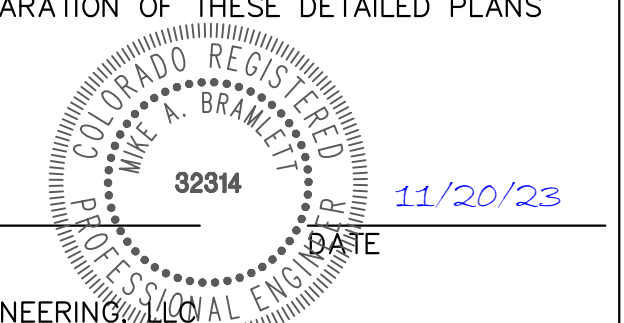
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EXISTING CURB & GUTTER	CONCRETE WASHOUT AREA	COIR MATTING	
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EXISTING DRAINAGE ARROW			
PROPOSED DRAINAGE ARROW			



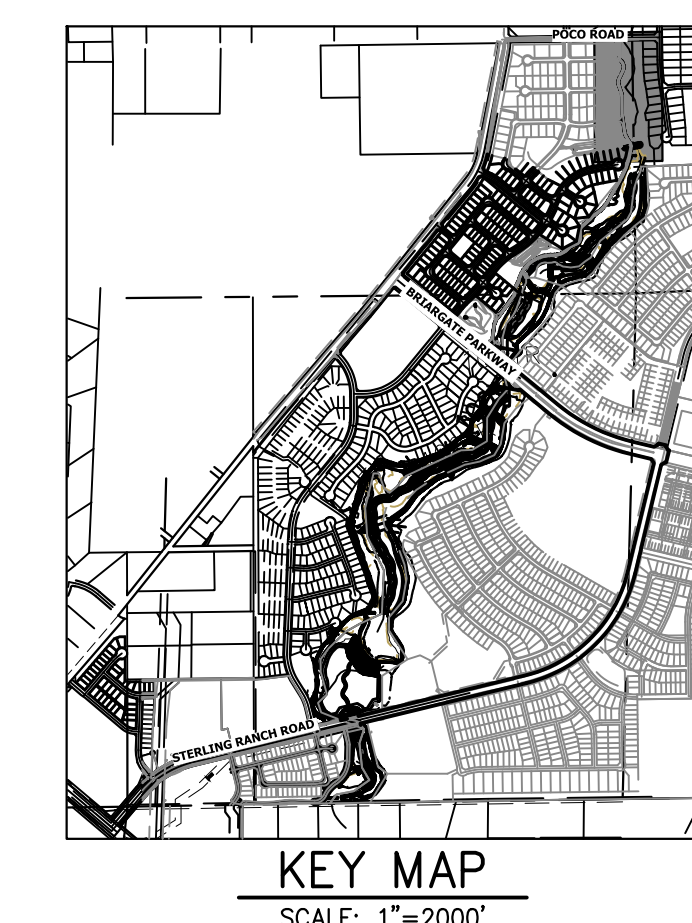
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		No.	REVISION						
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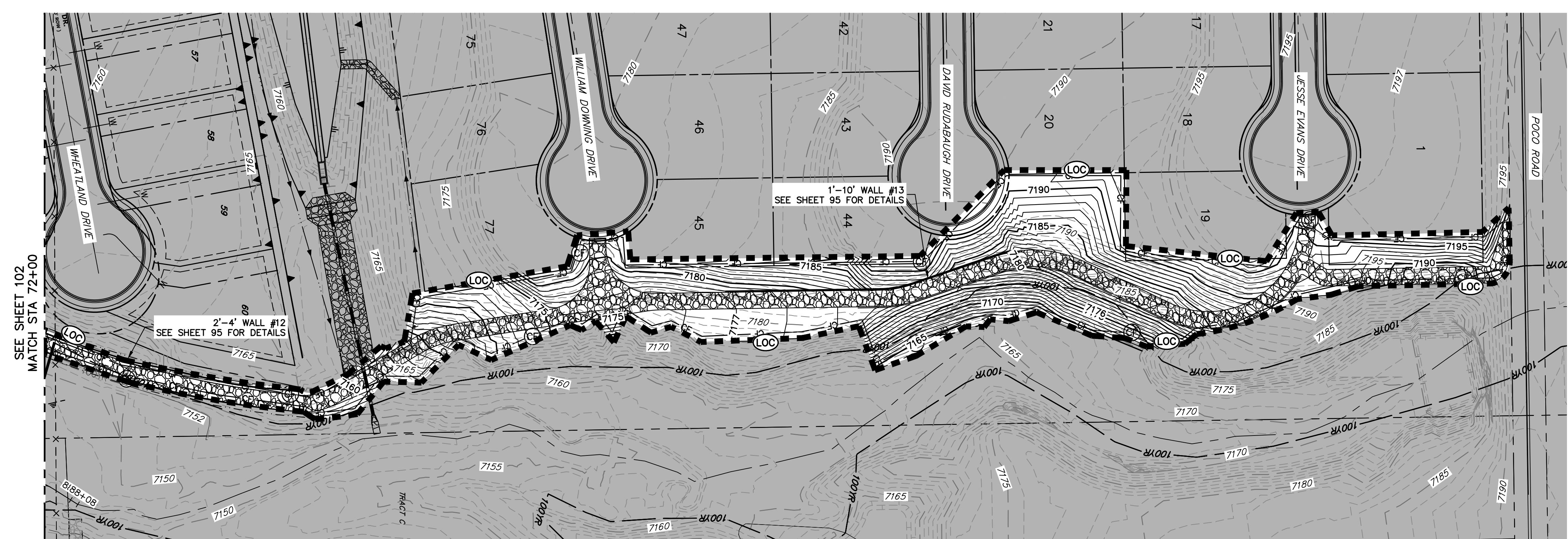


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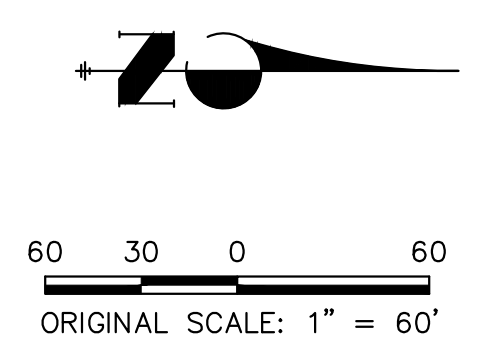
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BASIS OF BEARINGS
 THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTHEAST CORNER OF SAID 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.

LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
EXISTING PROPERTY LINE	LIMITS OF CONSTRUCTION	SEDIMENT CONTROL LOG	TEMPORARY SEDIMENT 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	ARTICULATED CONCRETE	
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			



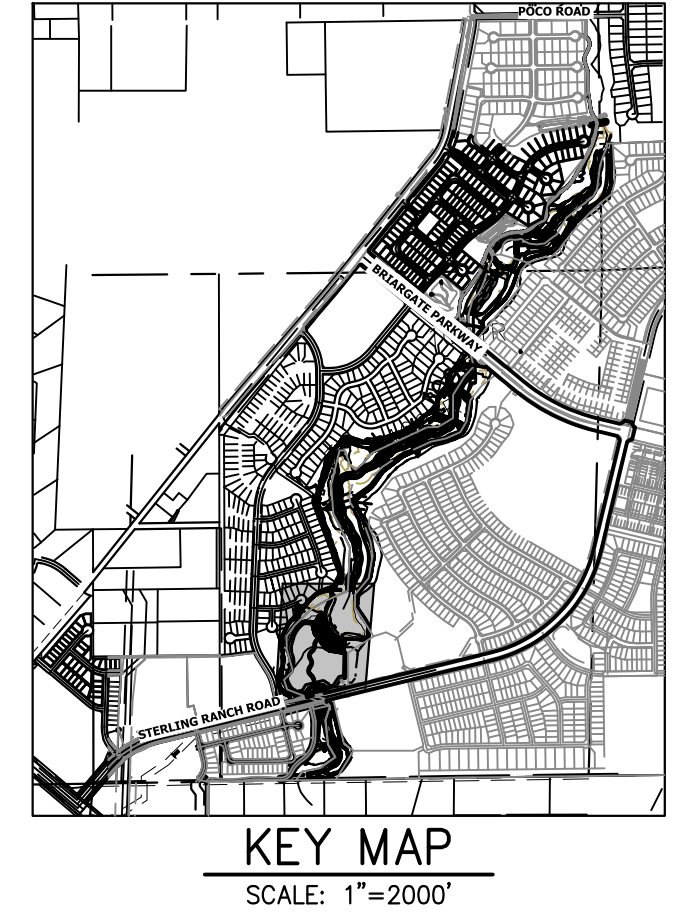
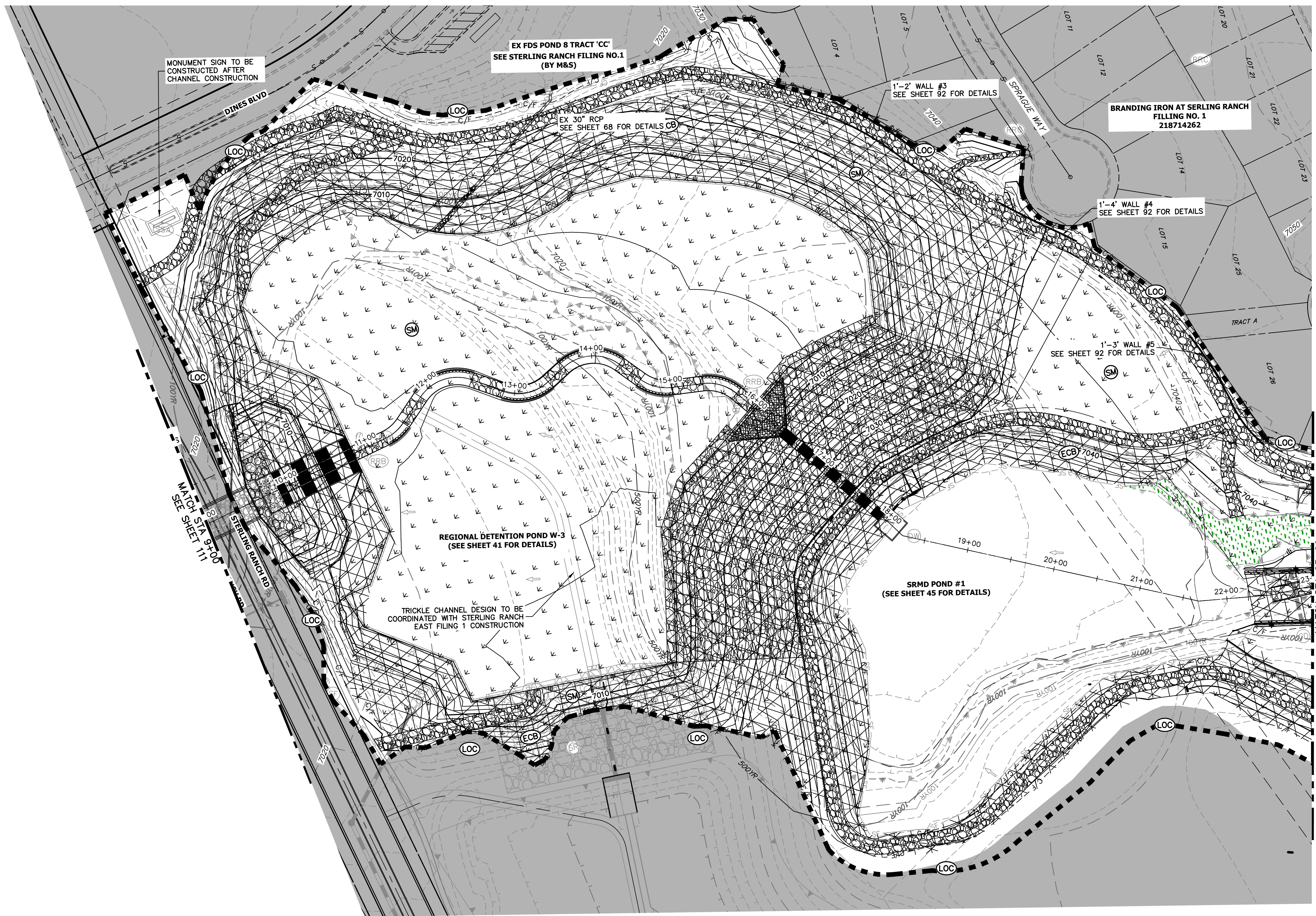
ENGINEER'S STATEMENT

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

32314
 11/20/23

SAND CREEK RESTORATION	GEC INTERIM	BY	DATE	No.	REVISION
H-SCALE	1"=60'				
V-SCALE	N/A				
DESIGNED BY	DJV	DATE	11/20/23		
DRAWN BY	WLL				
CHECKED BY					
SHEET	110	OF	121		
JOB NO.	25188.04				



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 CURB & GUTTER	STABILIZED STAGING AREA	COIR MATTING	
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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			

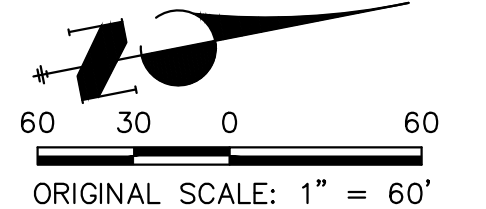
TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

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 PANNEE 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

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.

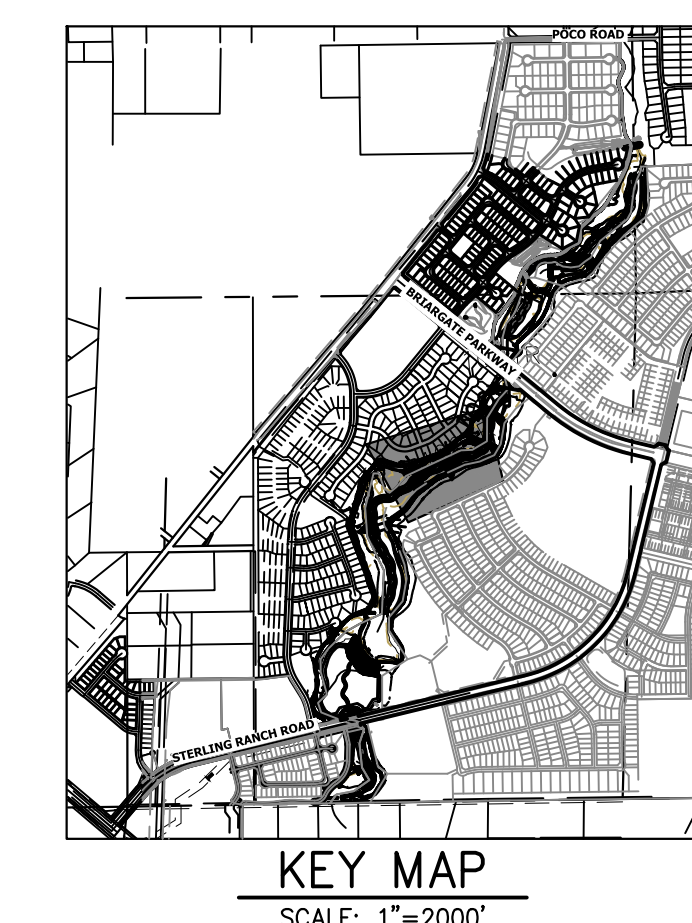
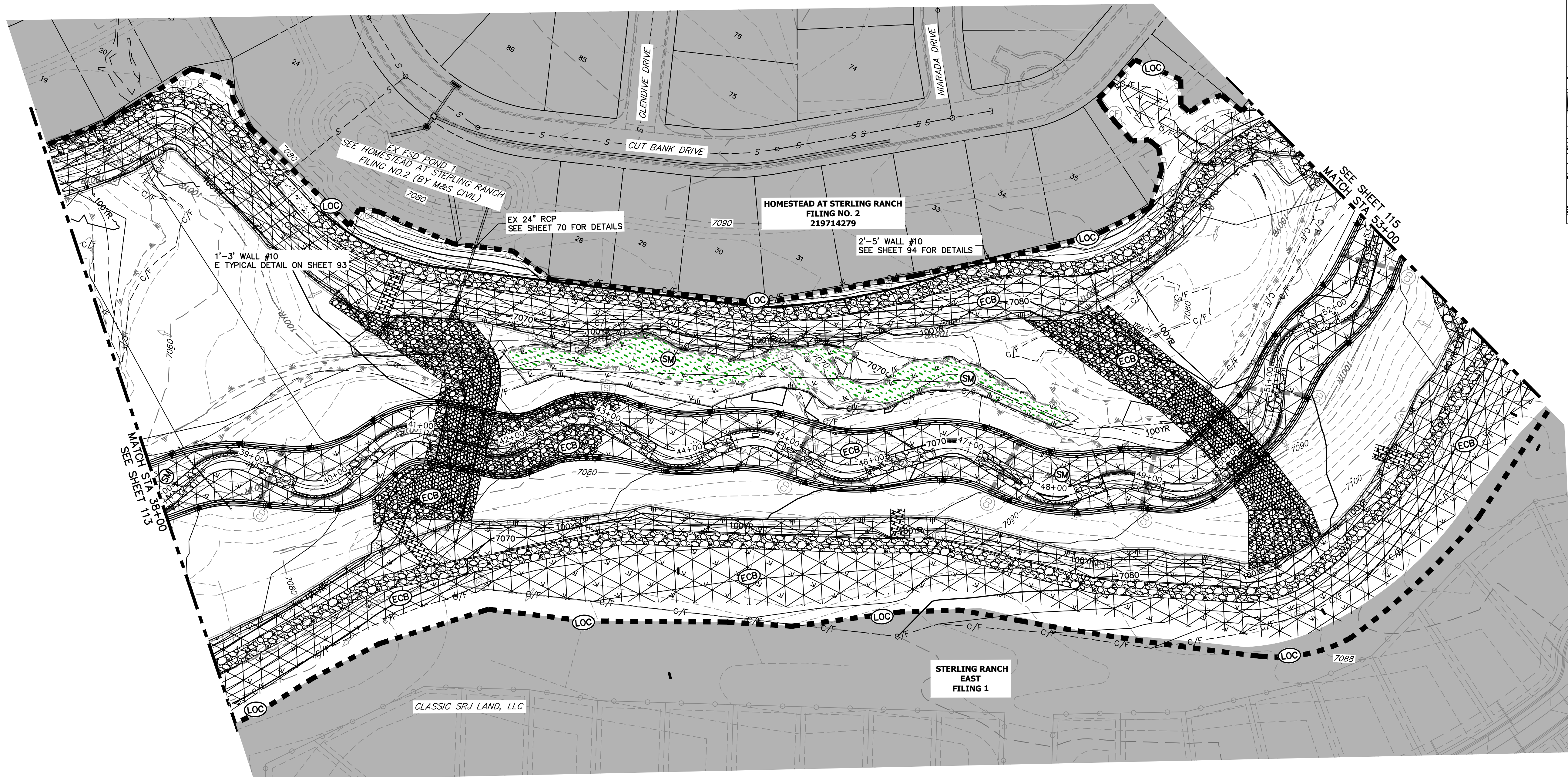


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Mike Bramlett
 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING, INC.
 DATE 11/20/23

PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT 2ND FLOOR COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 419-3024	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.
SAND CREEK RESTORATION GEC FINAL	SHEET 112 OF 121 JOB NO. 25188.04



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

J.R. ENGINEERING
 A Westman Company

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

BY	DATE	No.	REVISION

H-SCALE	1"=60'	V-SCALE	N/A	DATE	11/20/23	DESIGNED BY	DJV	DRAWN BY	WUL	CHECKED BY

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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PROPOSED RIGHT OF WAY LINE	CONCRETE WASHOUT AREA		
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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

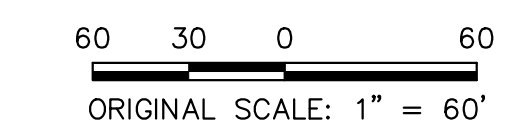
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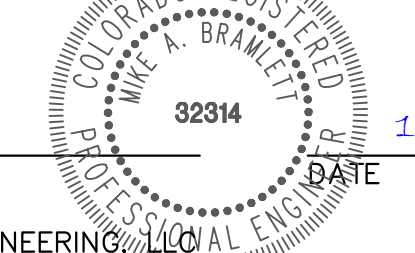
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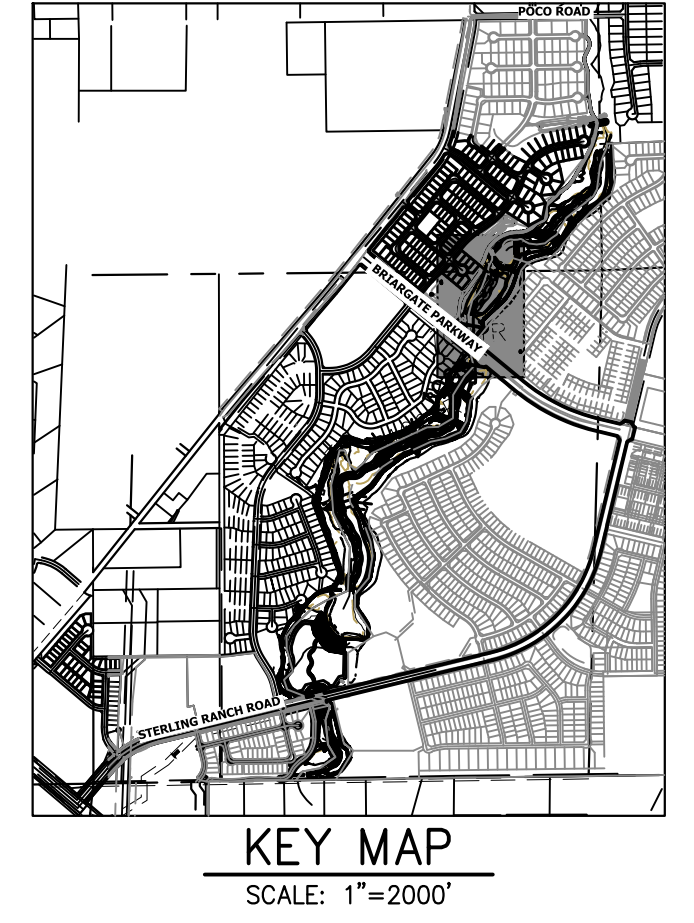
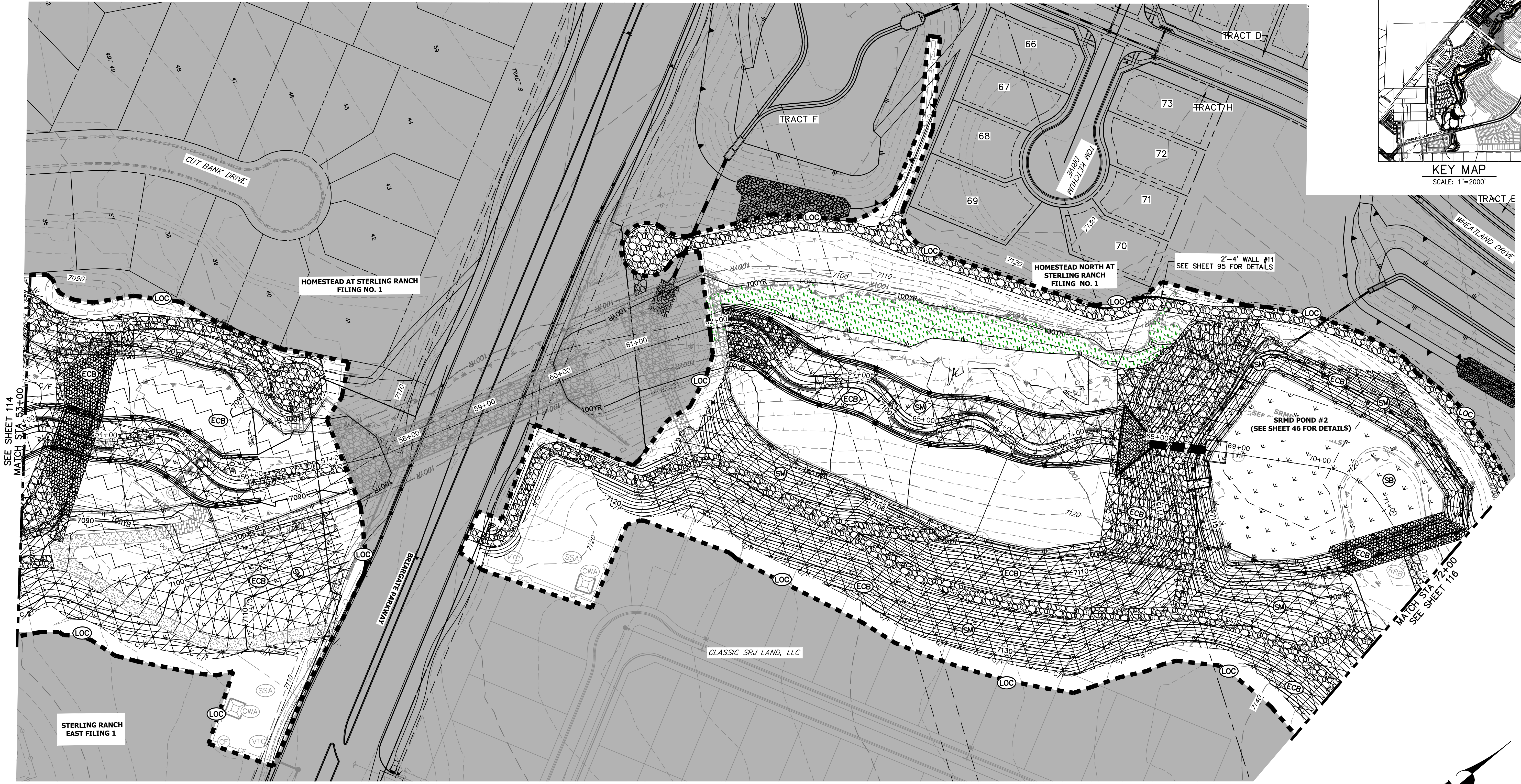


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PREPARED FOR
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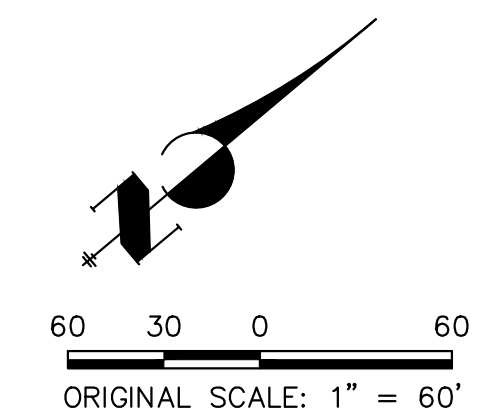
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LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
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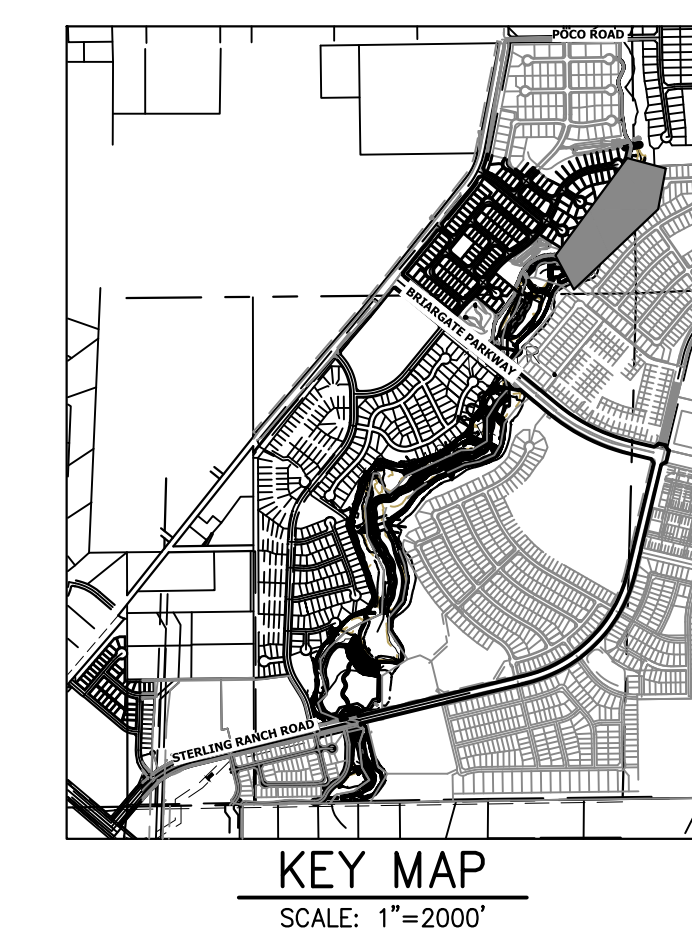
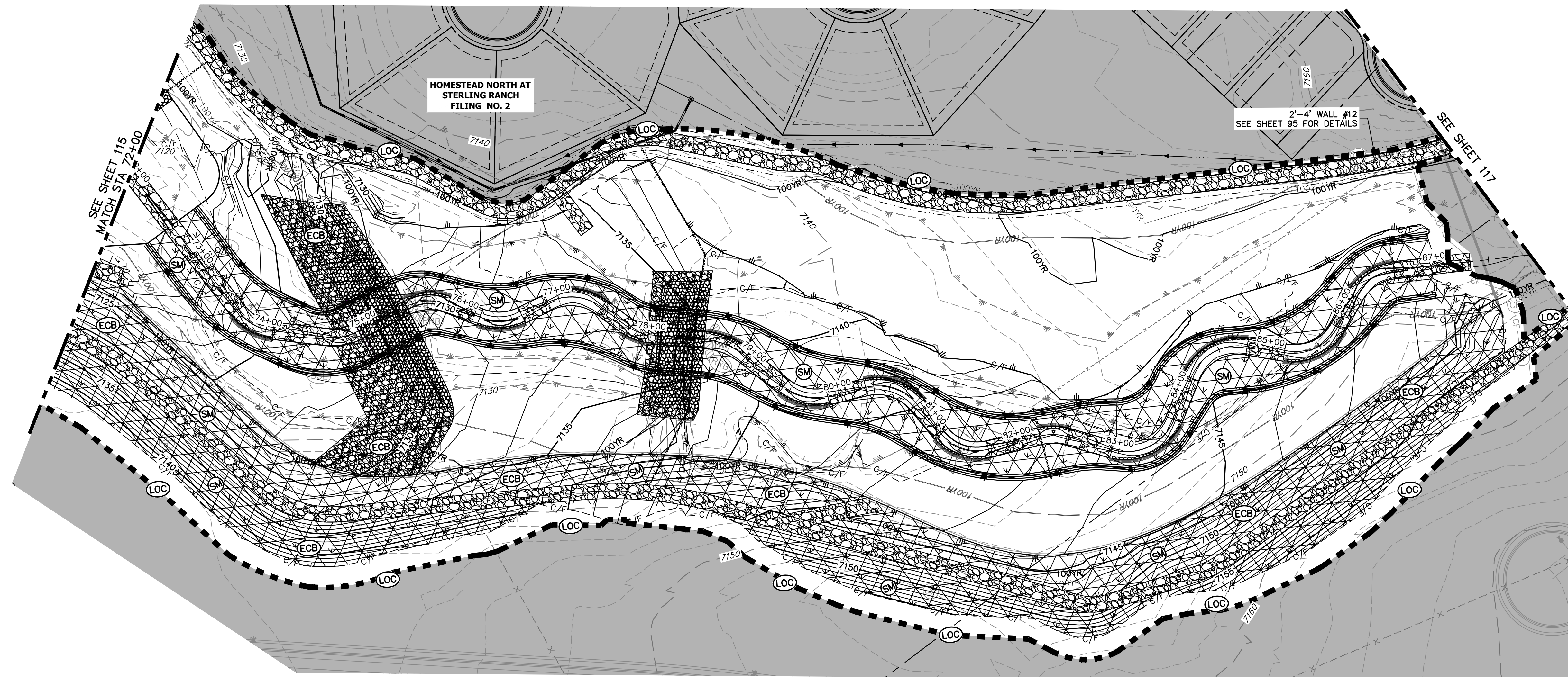
Mike Bramlett
 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING, INC.

32314
 11/20/23




SAND CREEK RESTORATION	GEC FINAL	BY	DATE						
		NO.	REVISION						
H-SCALE	1"=60'	V-SCALE	N/A	DATE	11/20/23	DESIGNED BY	DJV	DRAWN BY	WLL
				CHECKED BY					
SHEET 115 OF 121		JOB NO. 25188.04							

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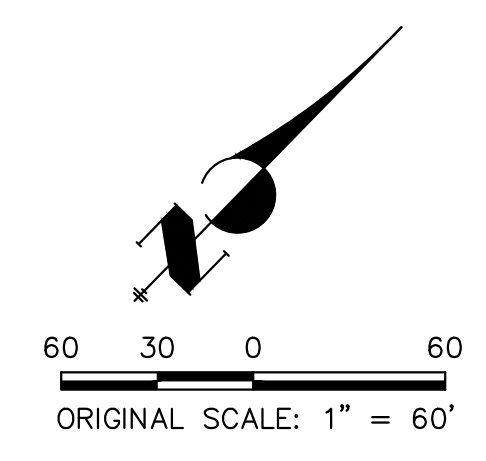


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PREPARED FOR
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BY	DATE	No.	REVISION



LEGEND

EXISTING CONTOUR	PROPOSED CONTOUR	REINFORCED ROCK BERM FOR CULVERT PROTECTION	DEWATERING
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 EASTING = 235167.071
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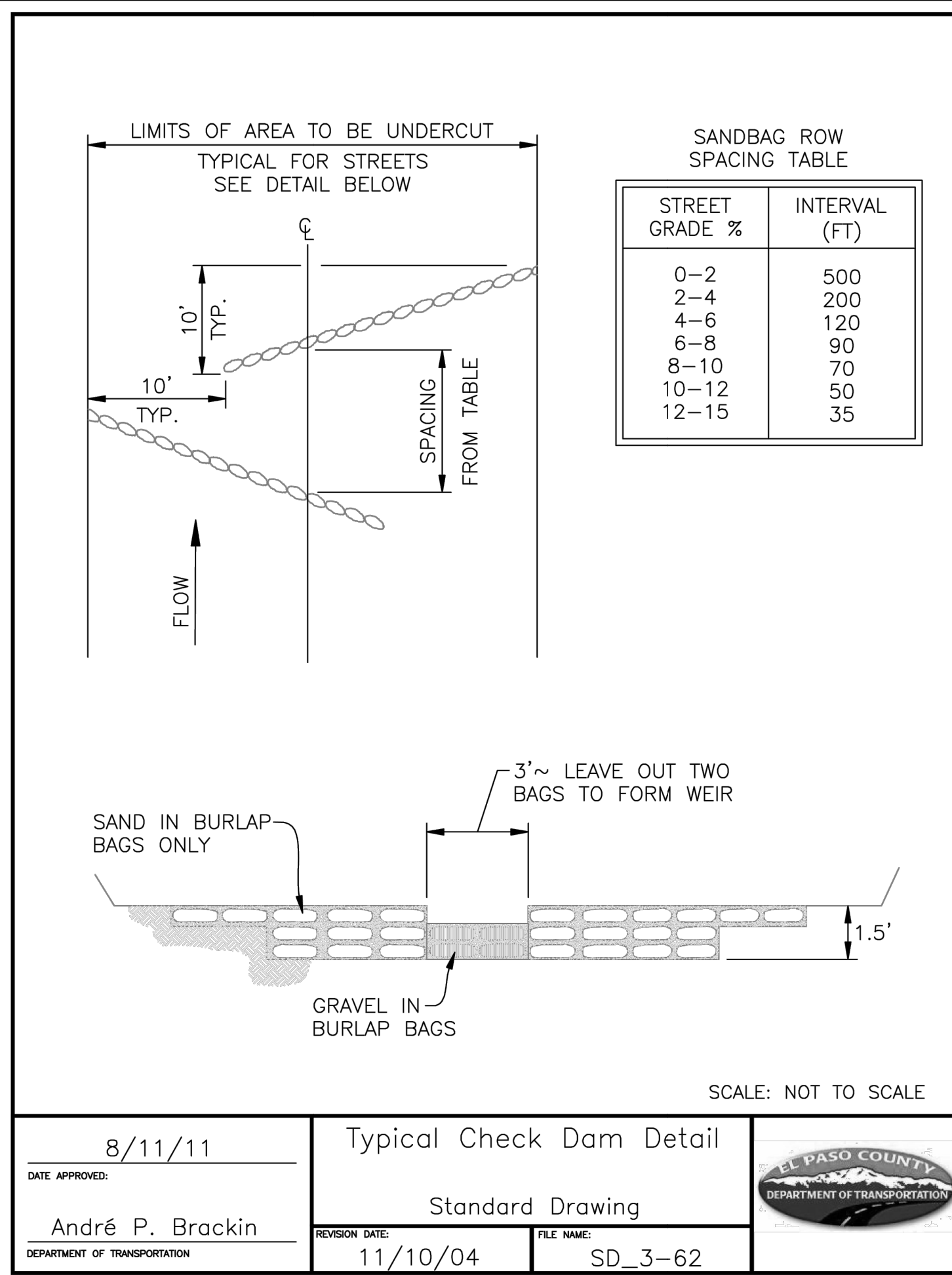
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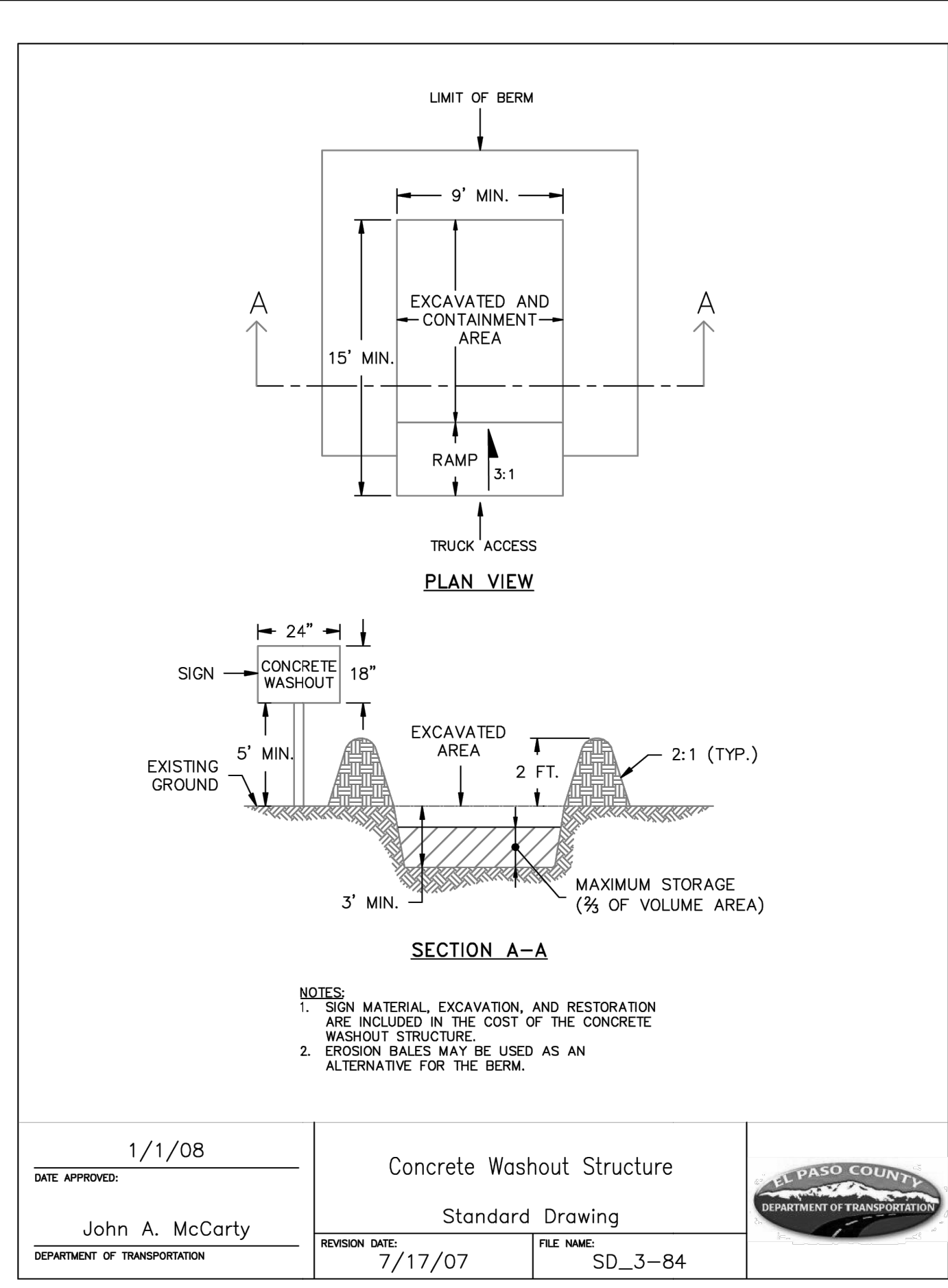
Mike Bramlett
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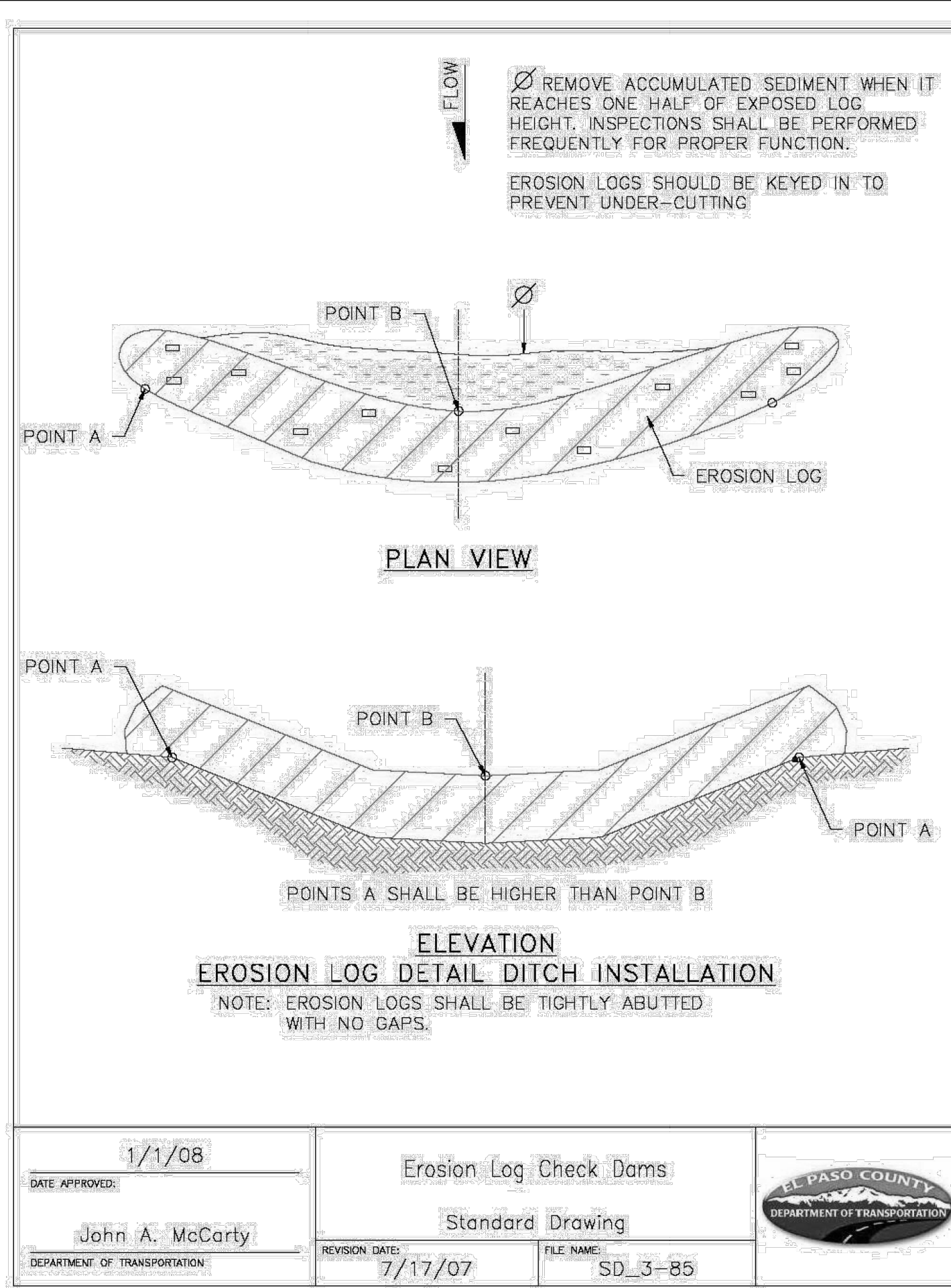
SAND CREEK RESTORATION	GEC FINAL	H-SCALE	1"=60'
		V-SCALE	N/A
DESIGNED BY	DJV	DATE	11/20/23
DRAWN BY	WLL	CHECKED BY	
SHEET	116	OF	121
JOB NO.	25188.04		



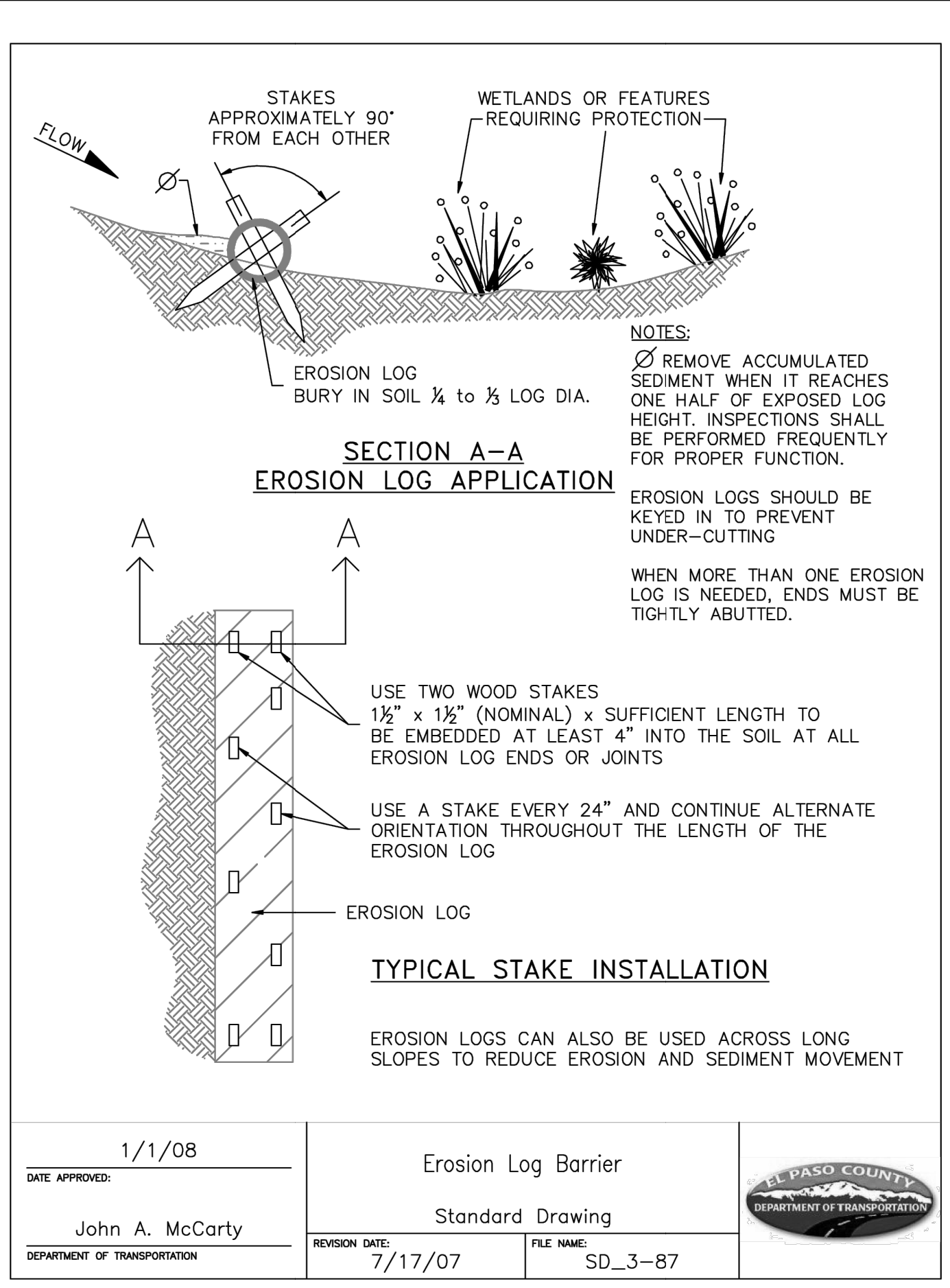
DATE APPROVED: 8/11/11	Standard Drawing	FILE NAME: SD_3-62
APPROVED BY: André P. Brackin	Standard Drawing	REVISION DATE: 11/10/04
DEPARTMENT OF TRANSPORTATION	Standard Drawing	FILE NAME: SD_3-62



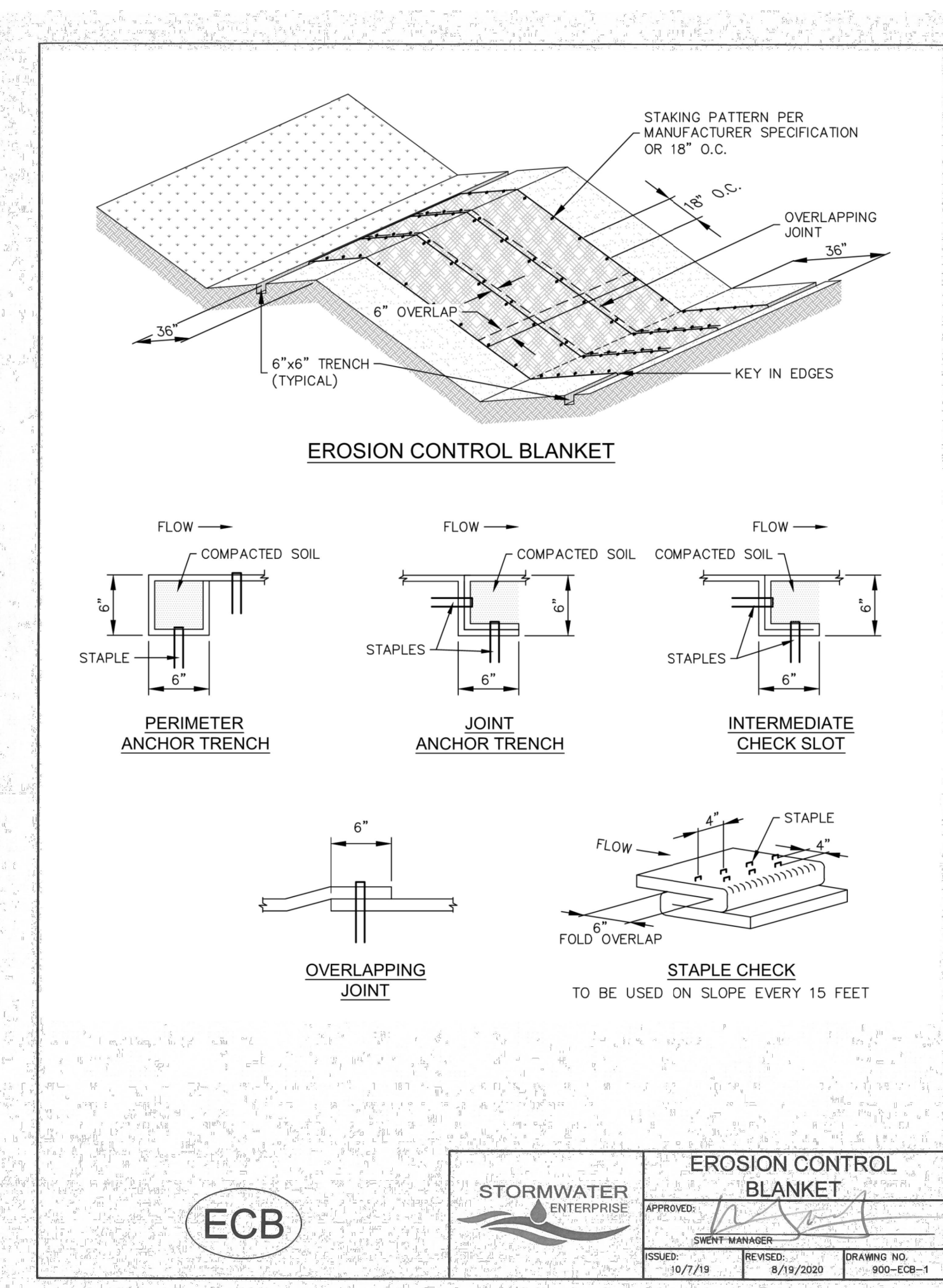
DATE APPROVED: 1/1/08	Concrete Washout Structure	FILE NAME: SD_3-84
APPROVED BY: John A. McCarty	Standard Drawing	REVISION DATE: 7/17/07
DEPARTMENT OF TRANSPORTATION	Standard Drawing	FILE NAME: SD_3-84



DATE APPROVED: 1/1/08	Erosion Log Check Dams	FILE NAME: SD_3-85
APPROVED BY: John A. McCarty	Standard Drawing	REVISION DATE: 7/17/07
DEPARTMENT OF TRANSPORTATION	Standard Drawing	FILE NAME: SD_3-85



DATE APPROVED: 1/1/08	Erosion Log Barrier	FILE NAME: SD_3-87
APPROVED BY: John A. McCarty	Standard Drawing	REVISION DATE: 7/17/07
DEPARTMENT OF TRANSPORTATION	Standard Drawing	FILE NAME: SD_3-87



ECB	STORMWATER ENTERPRISE	EROSION CONTROL BLANKET
ISSUED: 10/7/19	APPROVED: [Signature]	SHIRT MANAGER
REVISED: 9/19/2020	ISSUED: 10/7/19	REVISED: 9/19/2020
DRAWING NO. 900-ECB-1		DRAWING NO. 900-ECB-1

INSTALLATION NOTES

- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE REQUIRED FOR EROSION CONTROL BLANKETS. TRM PRODUCTS MAY BE USED WHERE APPROPRIATE AS DESIGNATED BY THE ENGINEER.
- IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO EROSION CONTROL BLANKET INSTALLATION, AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH THE SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL EROSION CONTROL BLANKETS.
- INTERMEDIATE CHECK SLOT OR STAPLE CHECK SHALL BE INSTALLED EVERY 15' DOWN SLOPES. IN DRAINAGEWAYS, INSTALL CHECK SLOTS EVERY 25' PERPENDICULAR TO FLOW DIRECTION.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER FOR EROSION CONTROL BLANKETS ON SLOPES.
- MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKETS SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKETS SHALL BE RESEEDED AND MULCHED.
- STRAW EROSION CONTROL BLANKETS SHALL NOT BE USED WITH STREAMS AND DRAINAGE CHANNELS.
- COMPACT ALL TRENCHES.

MAINTENANCE NOTES

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- EROSION CONTROL BLANKETS SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE. TRM MUST BE REMOVED AT THE DISCRETION OF THE GEC INSPECTOR.
- ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW GEOTEXTILE THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING
STRAW	-	100%	-	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN.	70% MAX.	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

ECB	STORMWATER ENTERPRISE	EROSION CONTROL BLANKET
ISSUED: 10/7/19	APPROVED: [Signature]	SHIRT MANAGER
REVISED: 9/19/2020	ISSUED: 10/7/19	REVISED: 9/19/2020
DRAWING NO. 900-ECB-2		DRAWING NO. 900-ECB-2



Know what's below.
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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 Bramlett
MICHAEL A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING

32314
11/20/23

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

PREPARED FOR: SR LAND, LLC
20 BOULDER CRESCENT
2ND FLOOR
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JAMES F. MORLEY
(719) 419-3024

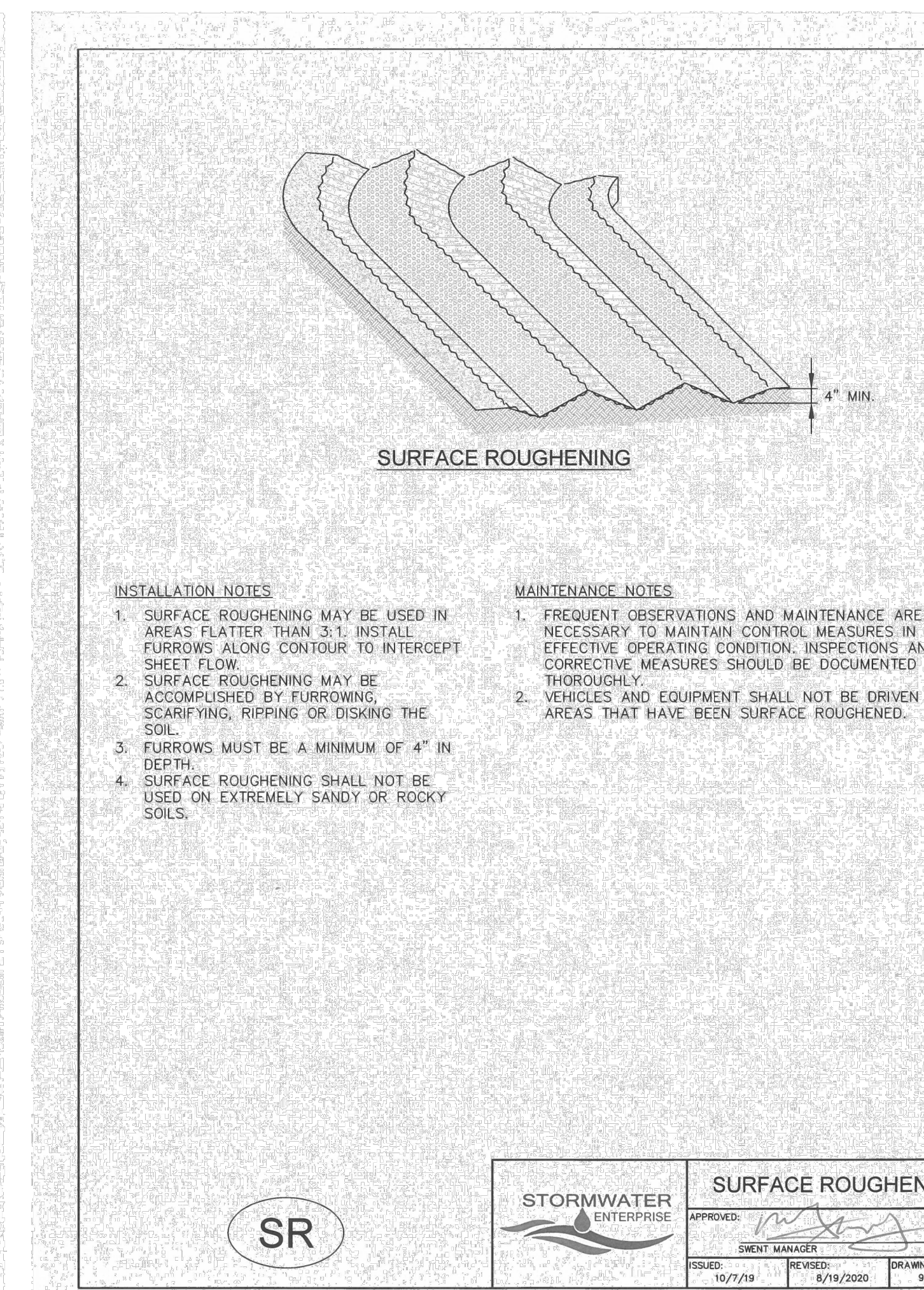
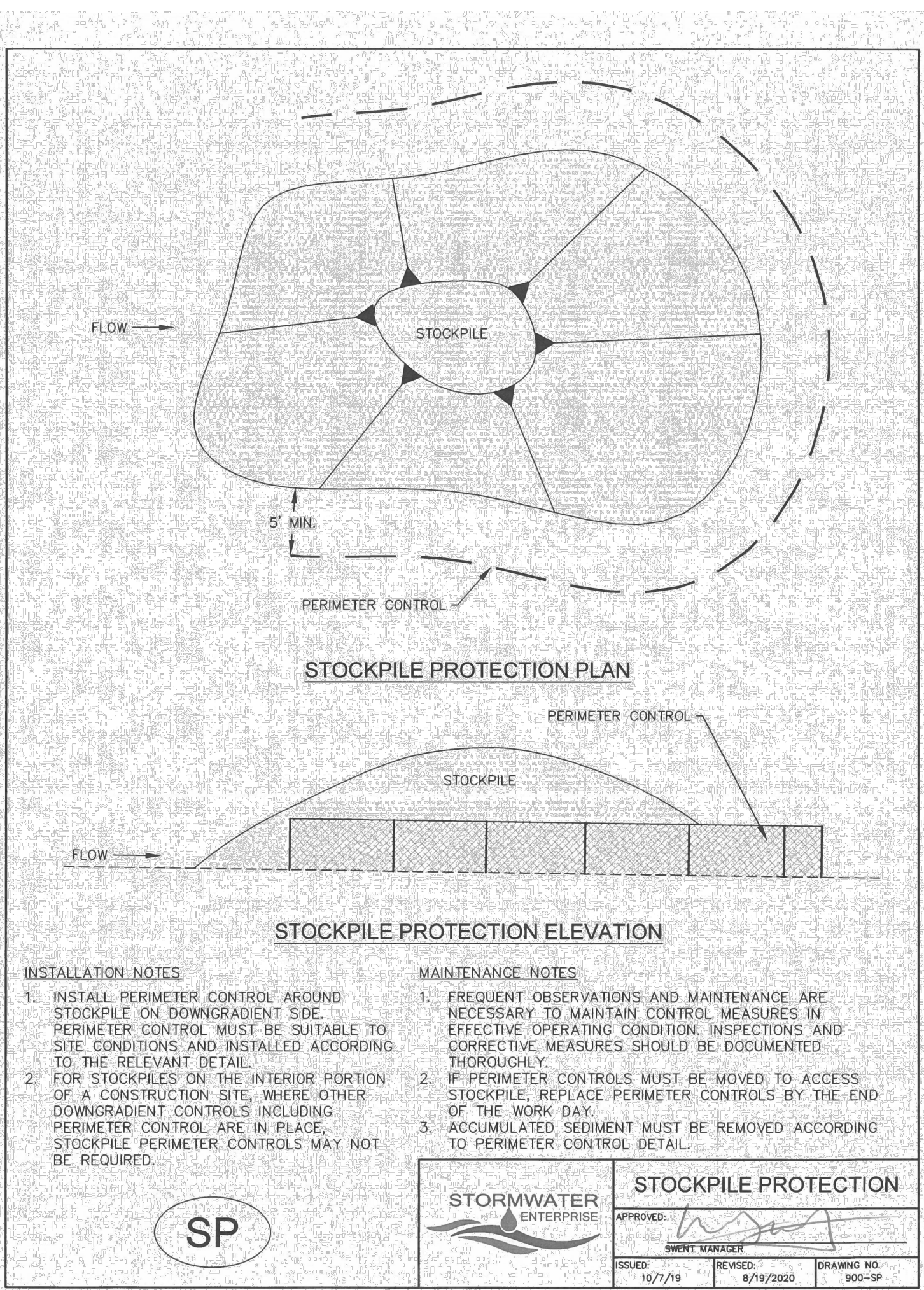
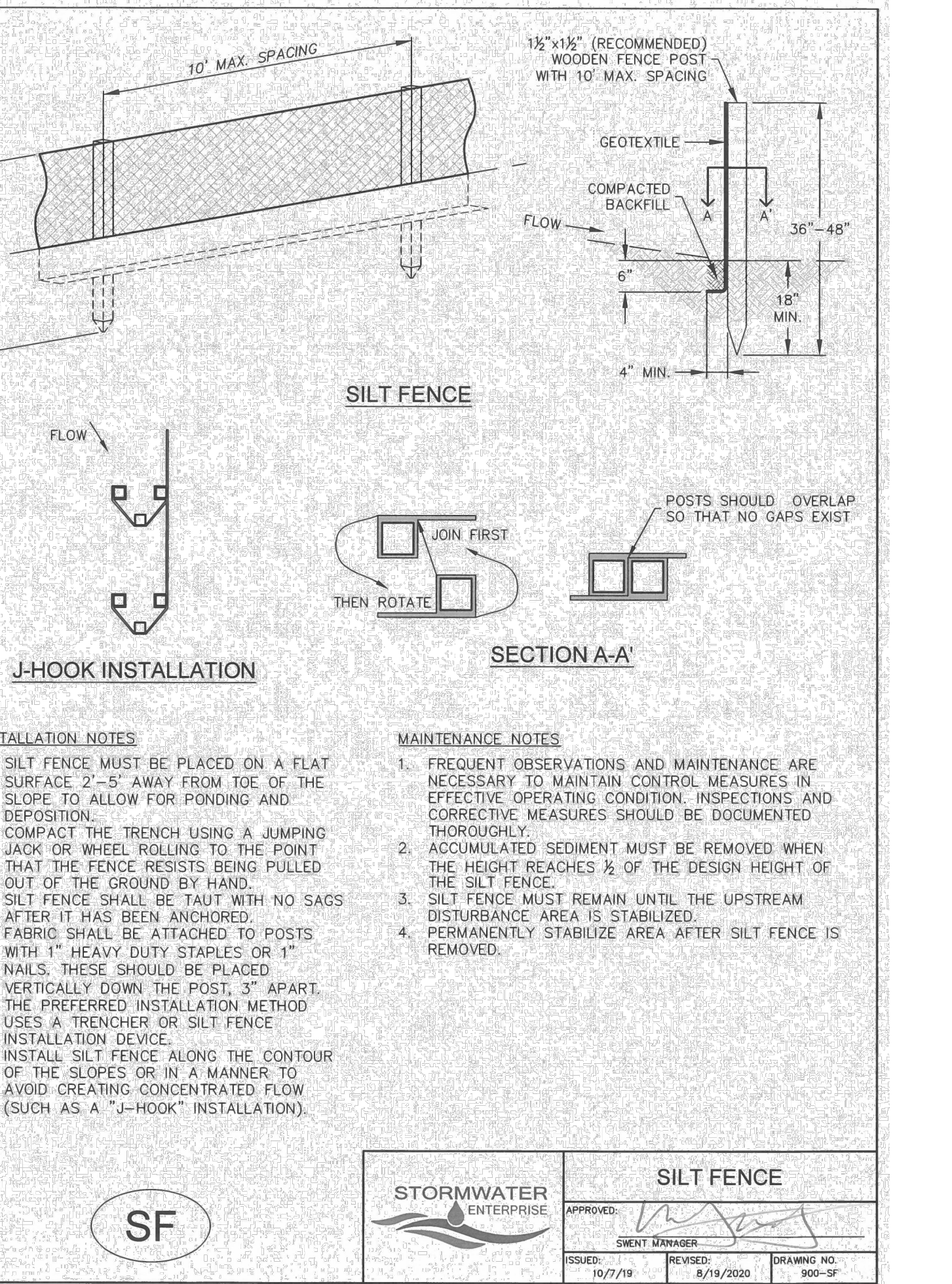
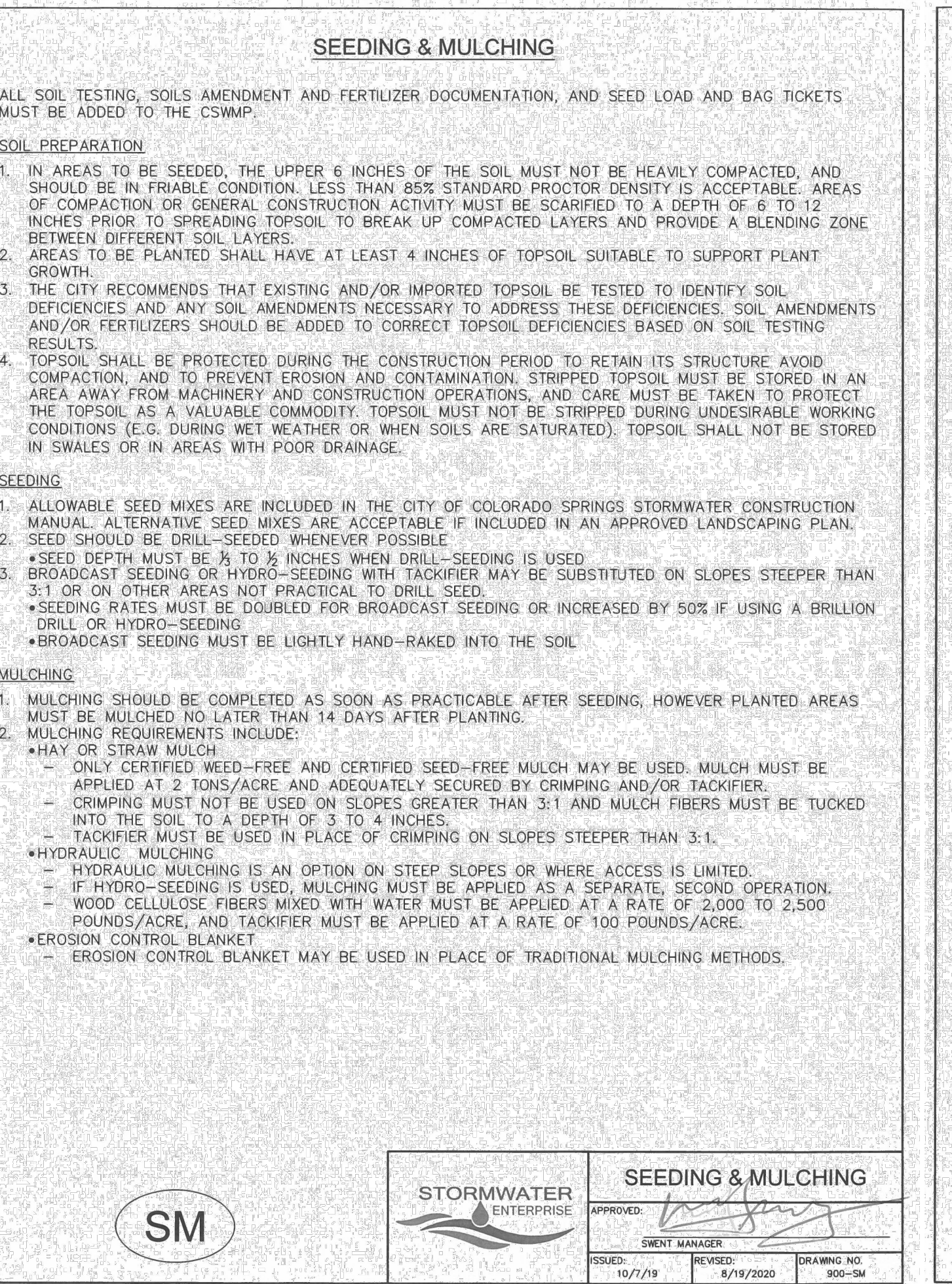
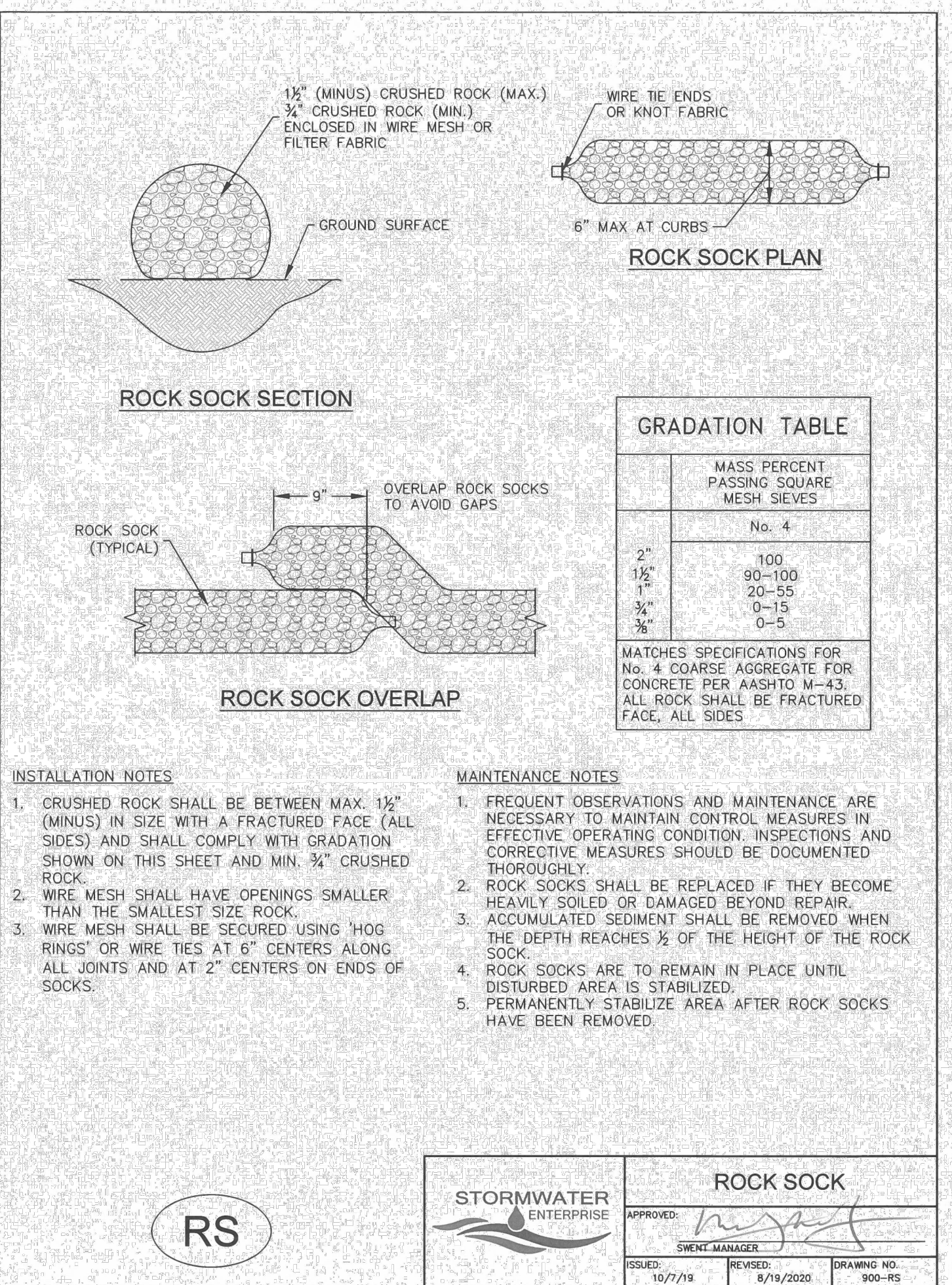
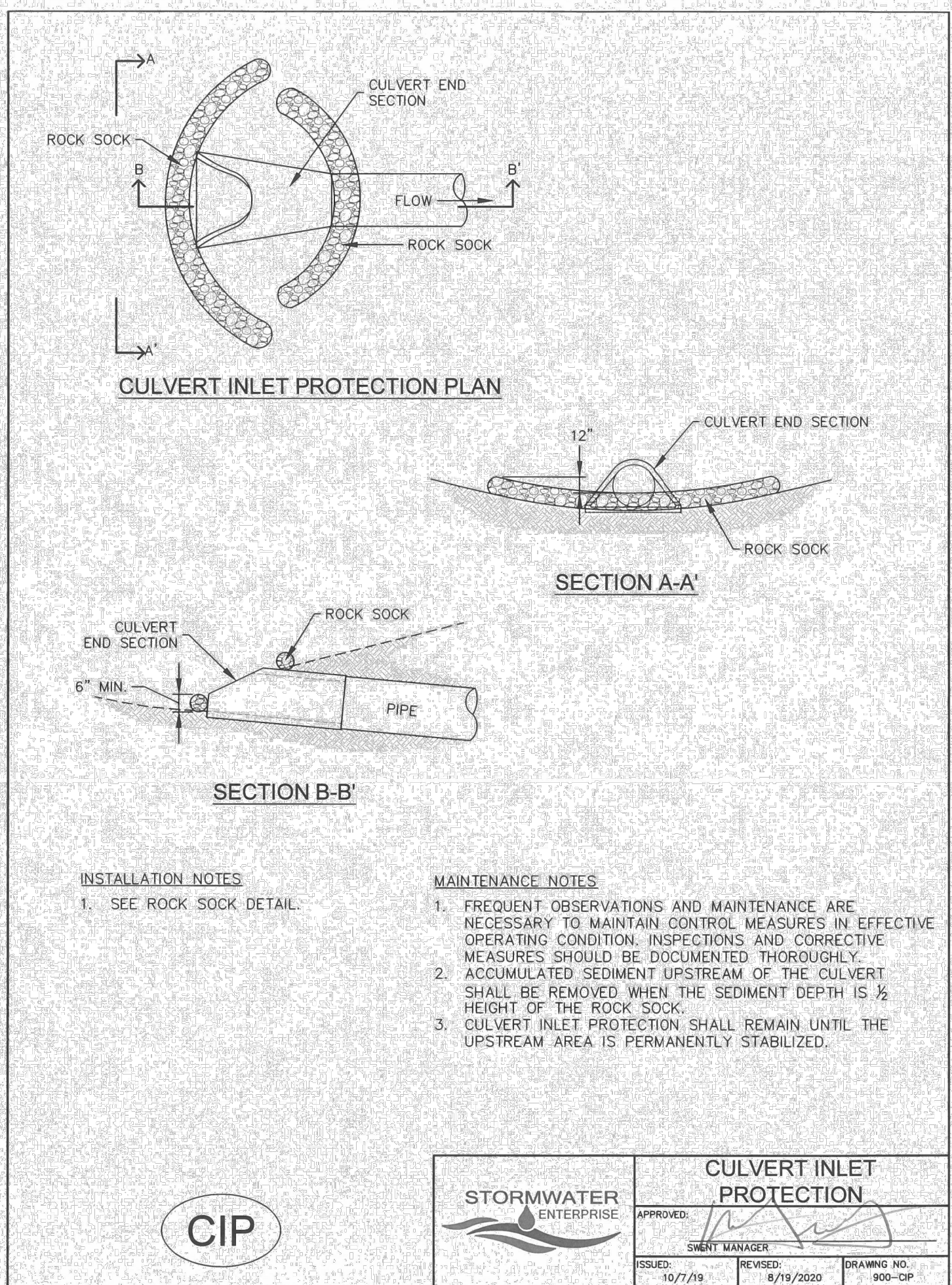
J.R. ENGINEERING
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BY	DATE	No.	REVISION

H-SCALE: N/A
V-SCALE: N/A
DATE: 11/20/23
DESIGNED BY: SCH
DRAWN BY: SCH
CHECKED BY:

SAND CREEK RESTORATION
GEC DETAILS

SHEET 118 OF 121
JOB NO. 25188.04



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Mike Bramlett

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

COLORADO REGISTERED PROFESSIONAL ENGINEER
MIKE A. BRAMLETT
32314
DATE 11/20/23

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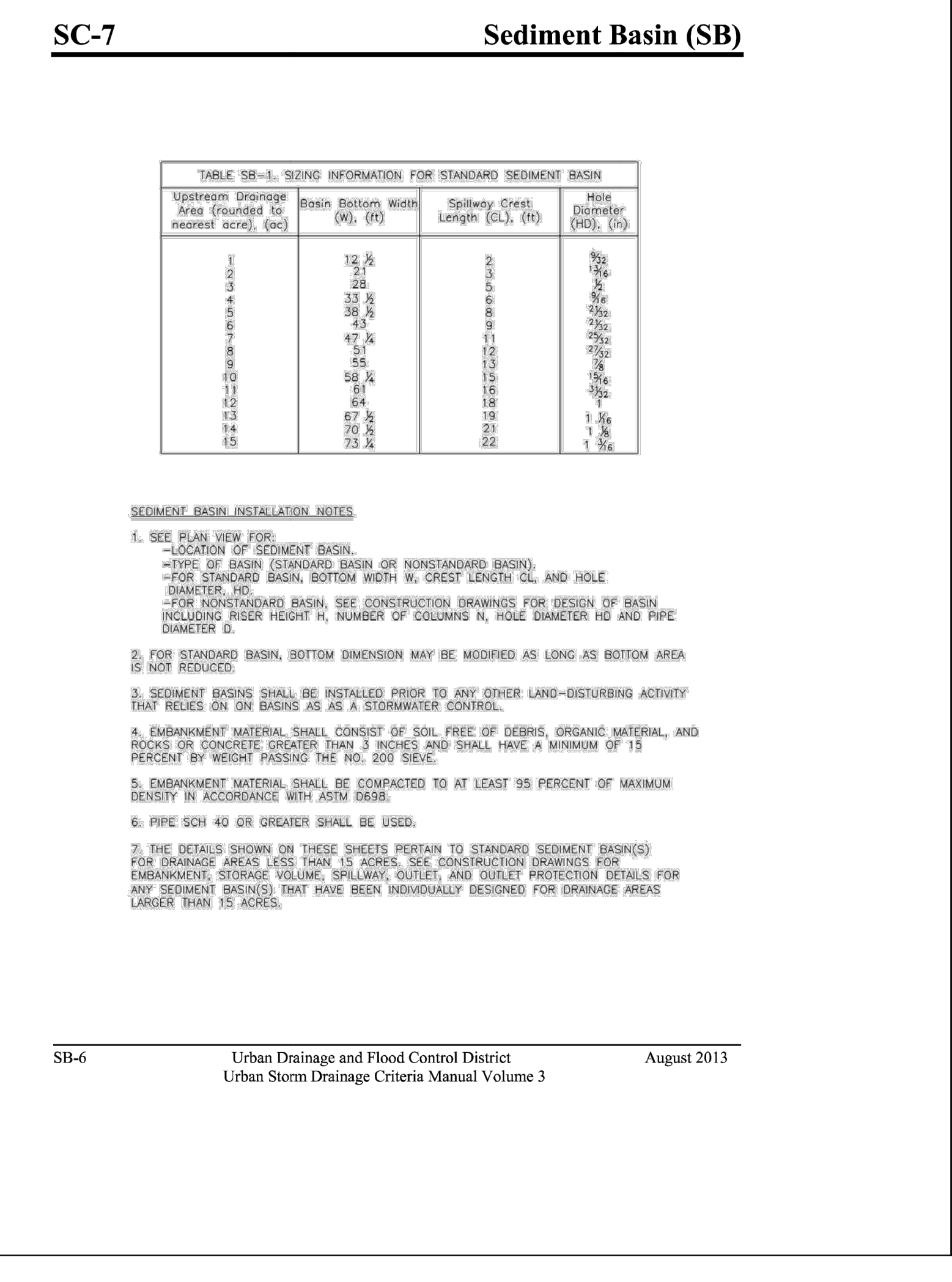
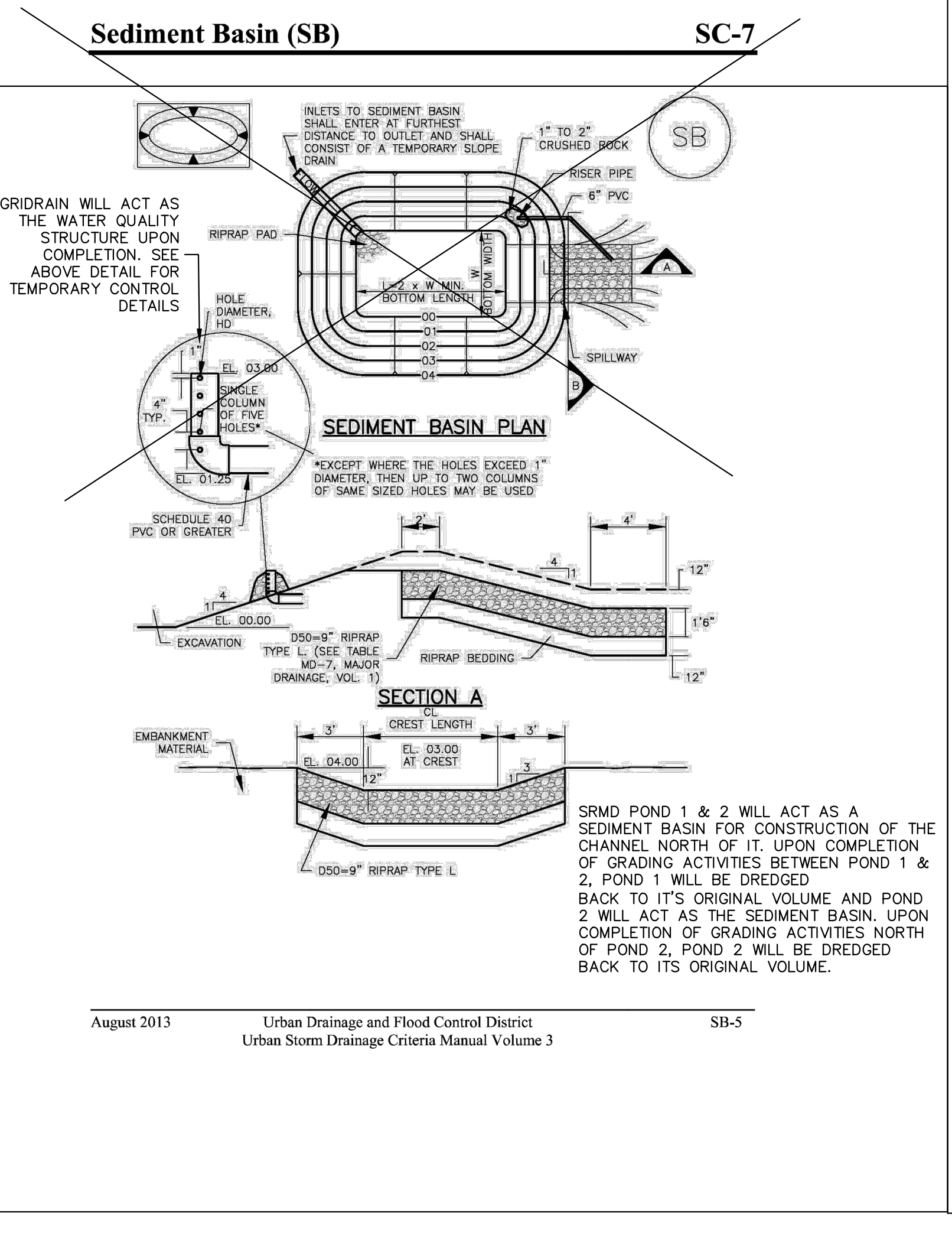
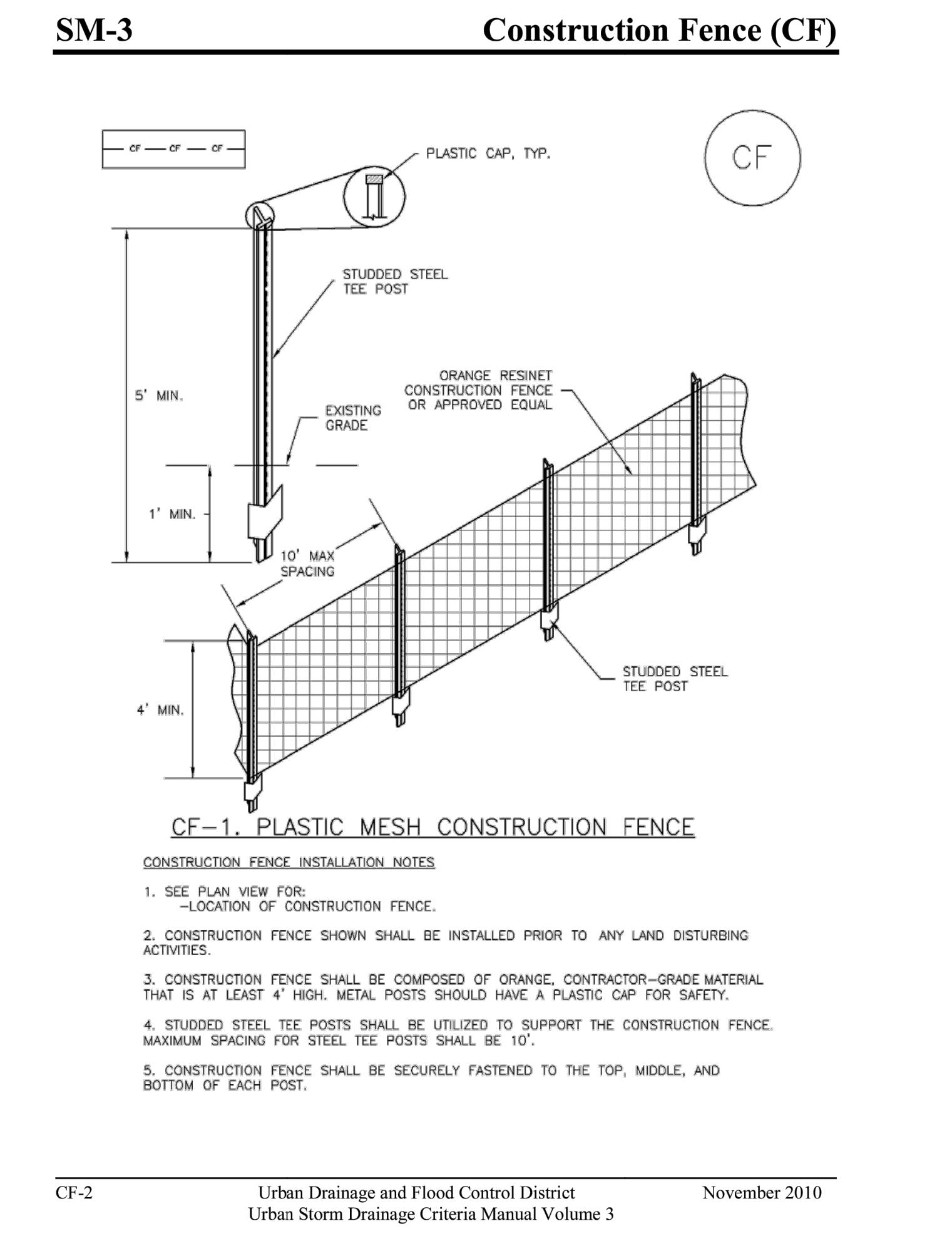
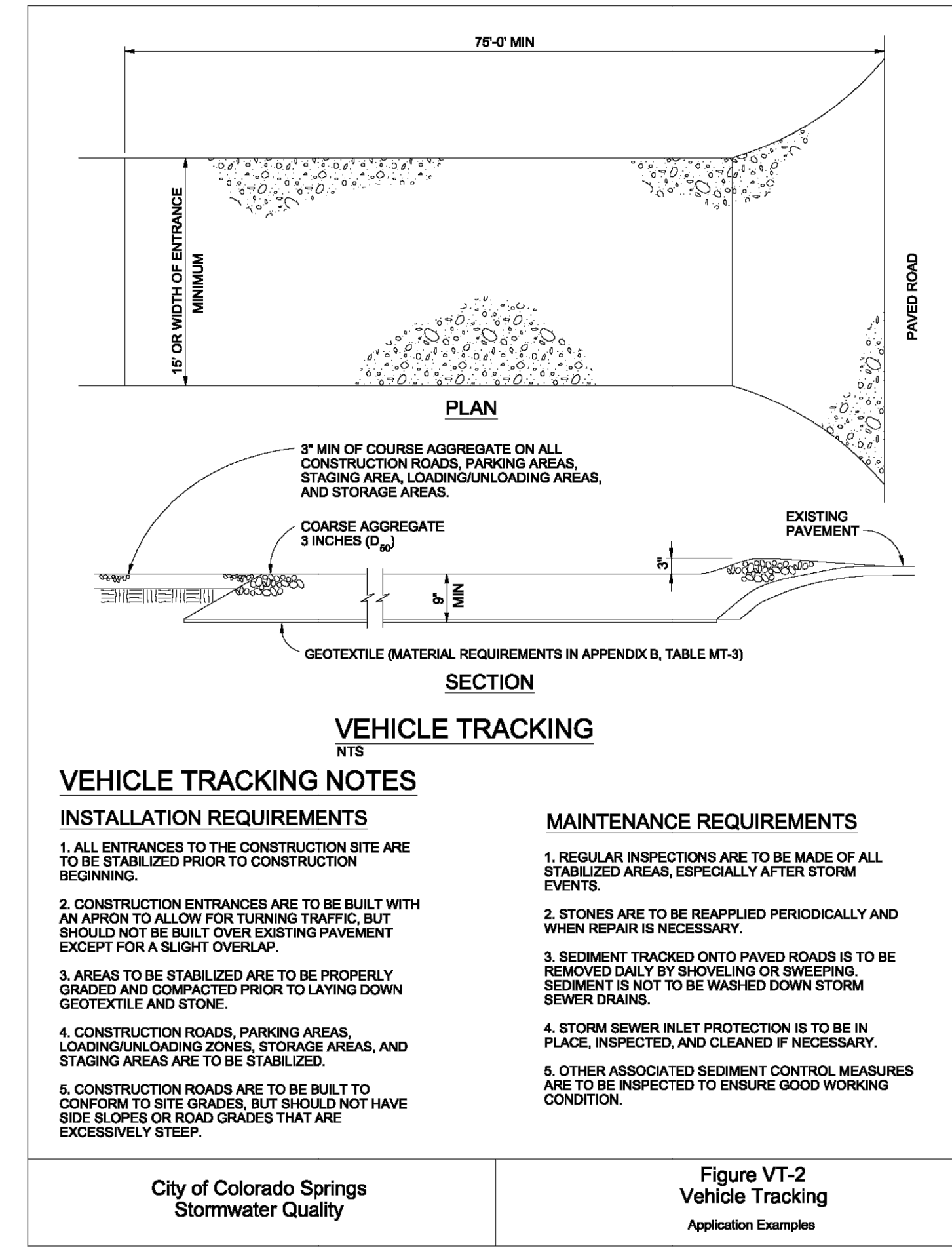
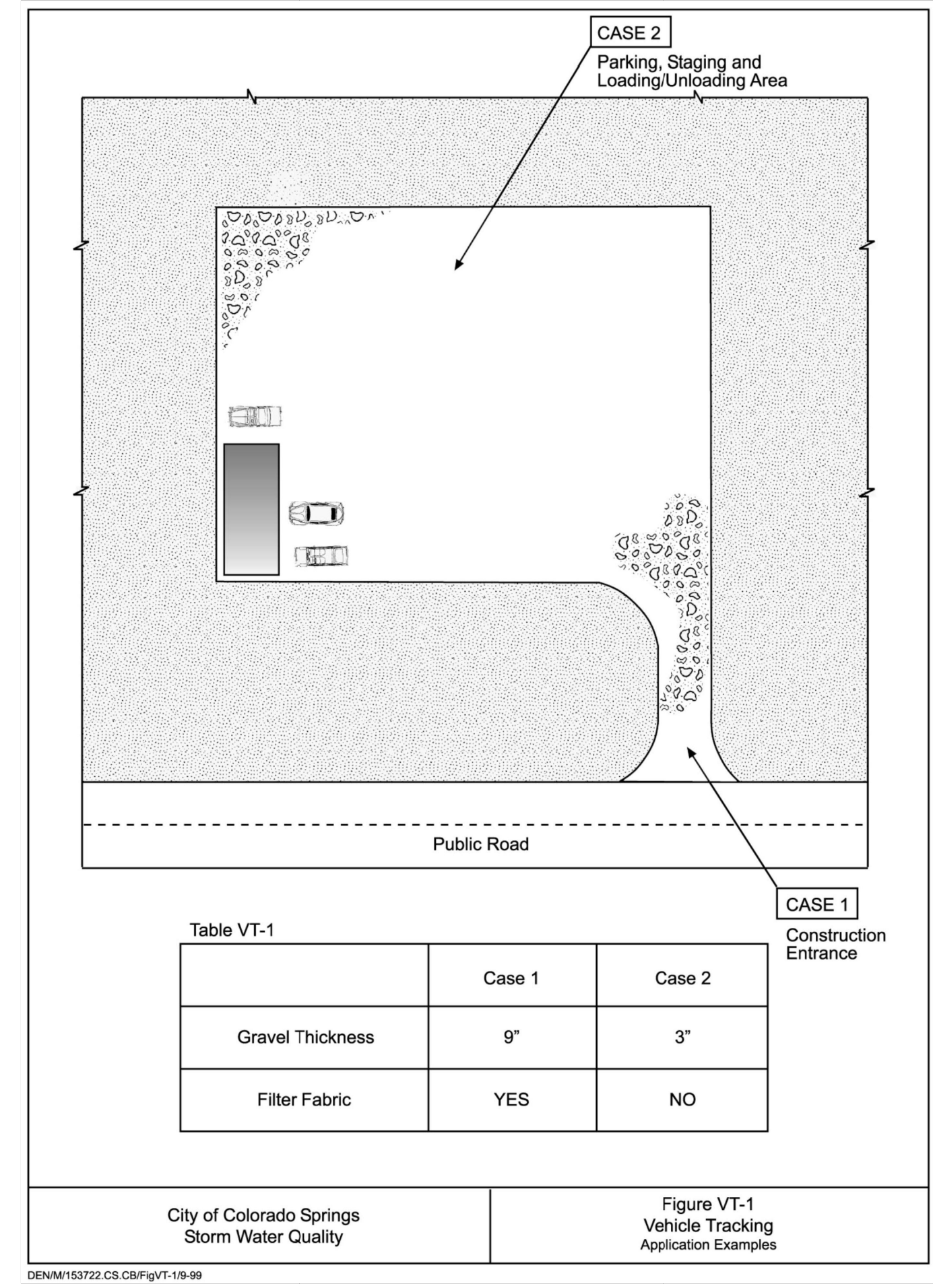
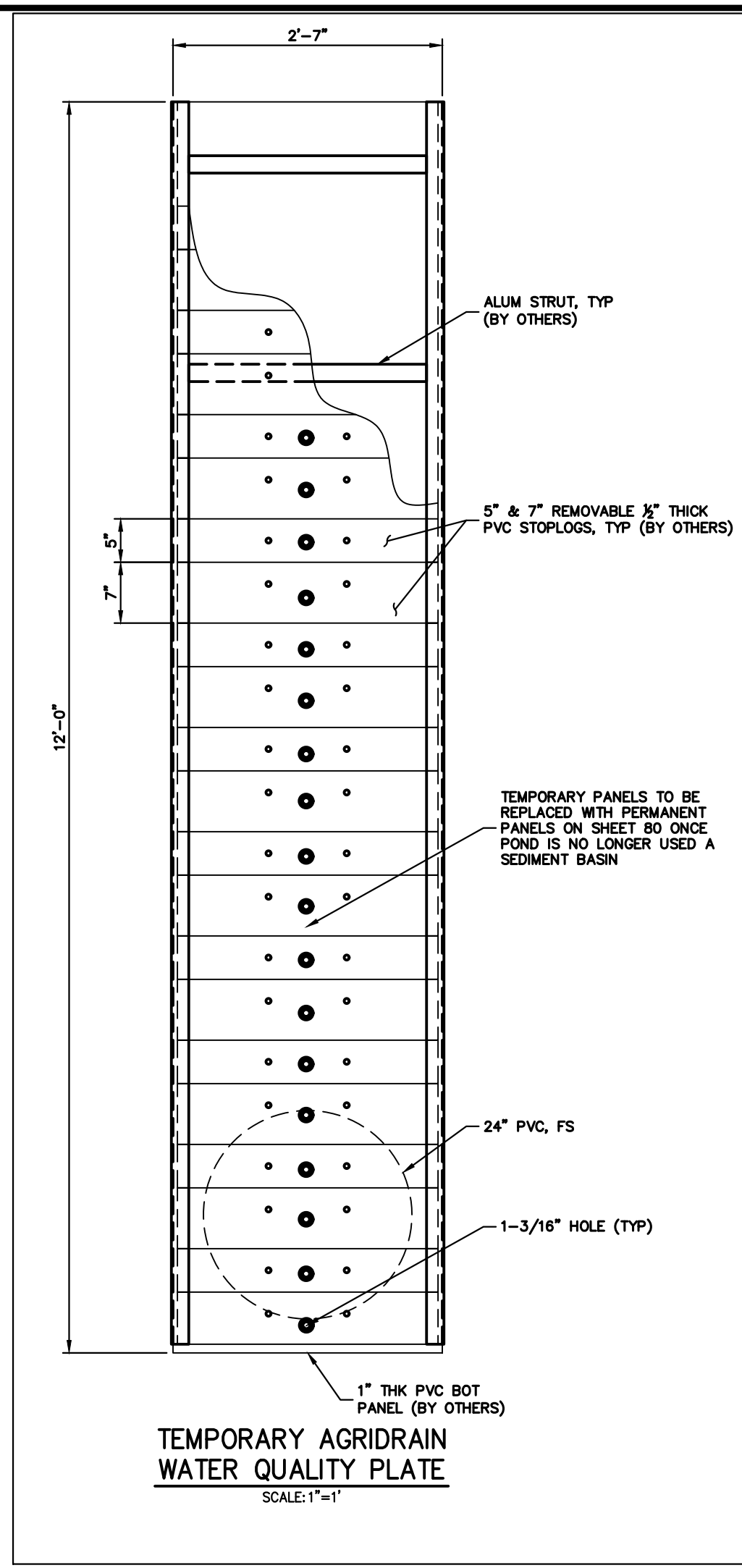
BY	DATE	No.	REVISION

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DRAWN BY SCH
CHECKED BY

SAND CREEK RESTORATION

GEC DETAILS

SHEET 119 OF 121
JOB NO. 25188.04



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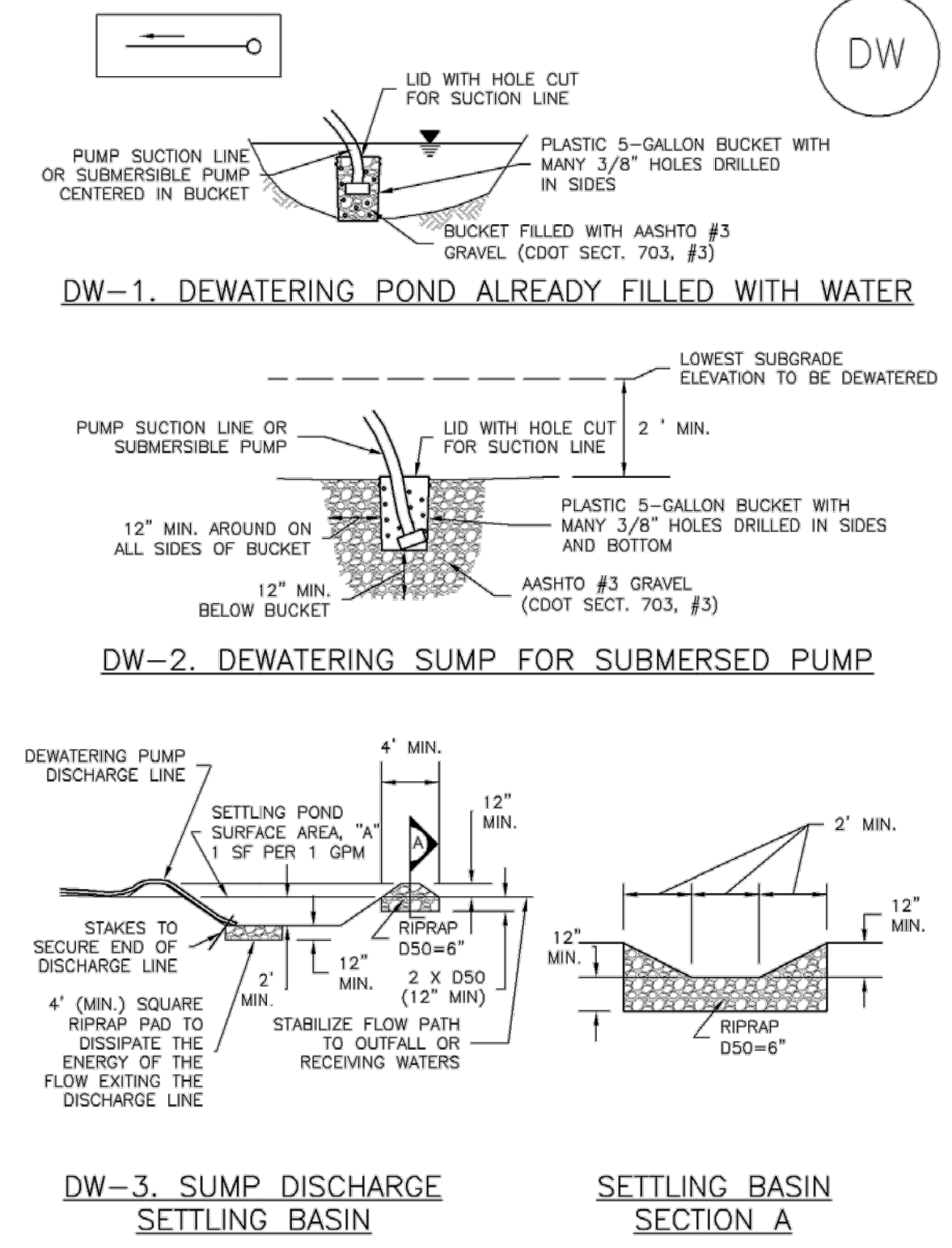
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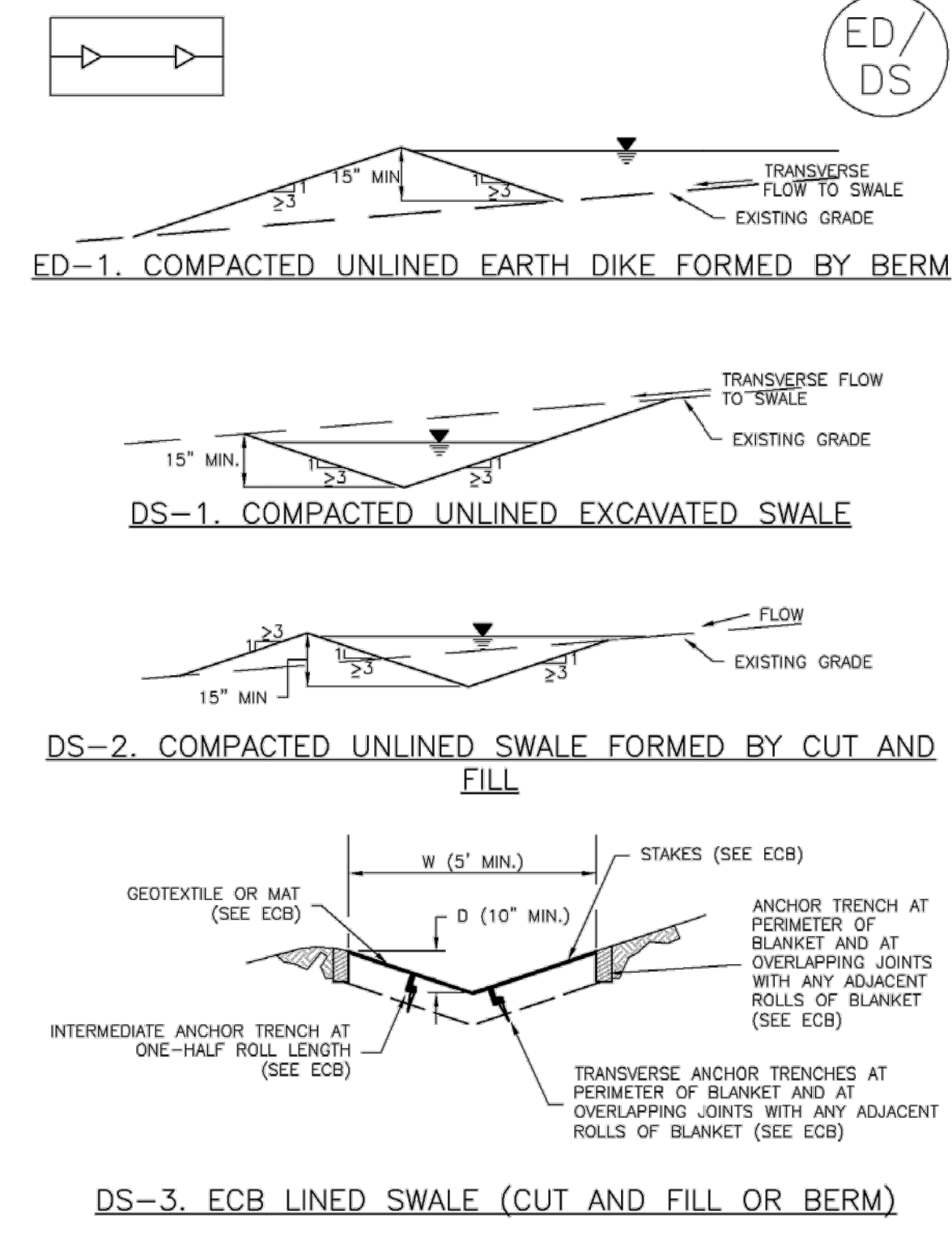
PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT 2ND FLOOR COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 419-3024	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.	J.R. ENGINEERING A Westman Company Centennial 303-740-9888 • Colorado Springs 719-583-2593 Fort Collins 970-491-9888 • www.jrengineering.com	BY DATE REVISION H-SCALE AS SHOWN V-SCALE AS SHOWN DATE 11/20/23 DESIGNED BY SCH DRAWN BY SCH CHECKED BY	SAND CREEK RESTORATION GEC DETAILS SHEET 120 OF 121 JOB NO. 25188.04
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Dewatering Operations (DW) SM-9



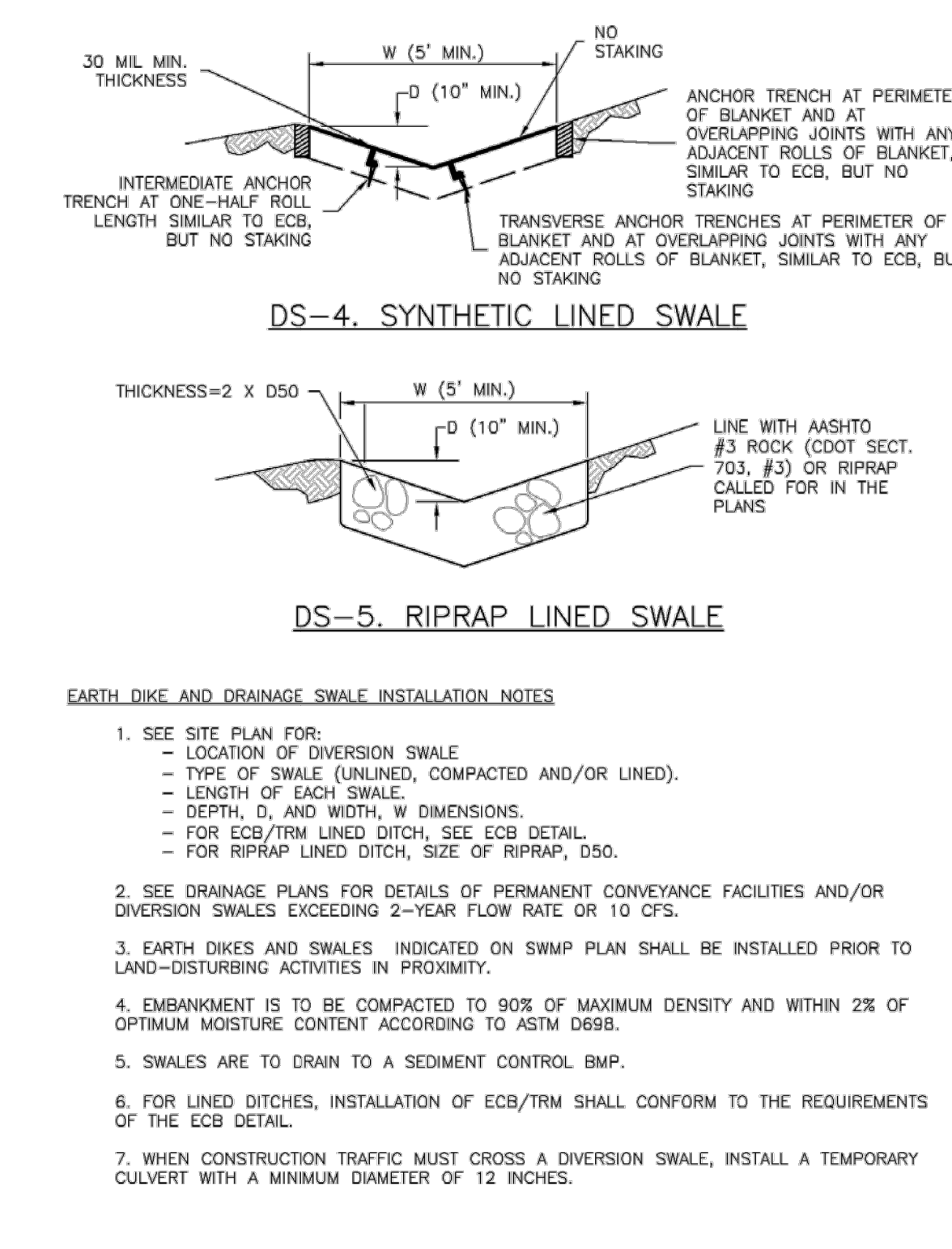
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 DW-3

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



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

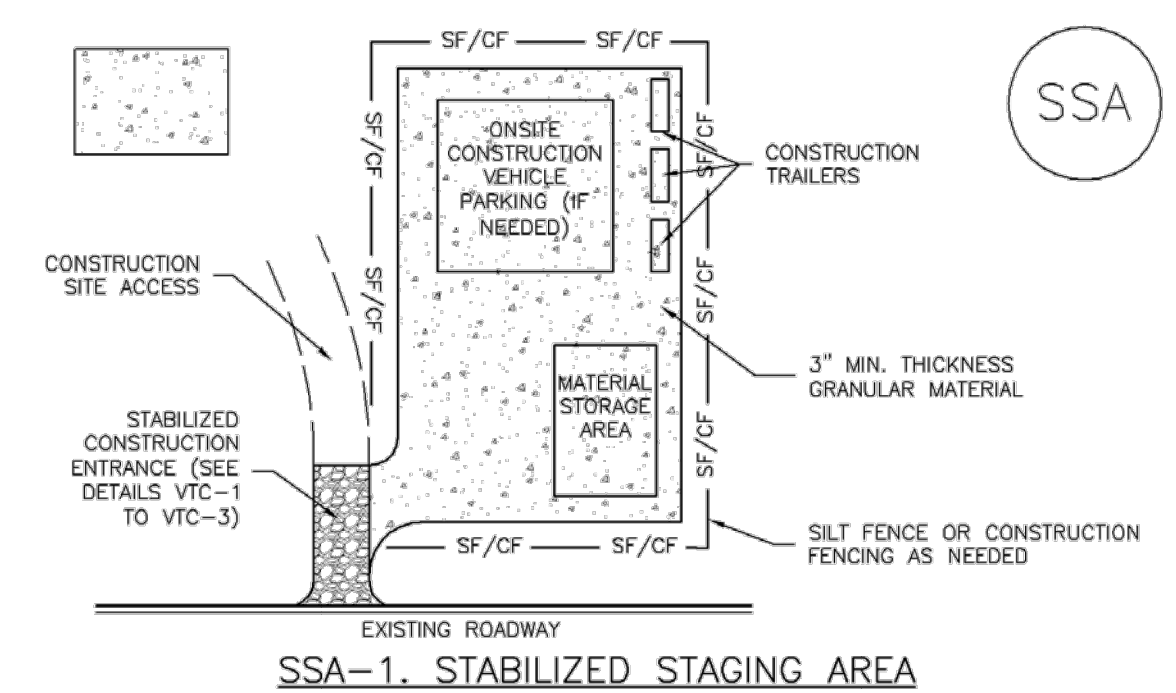
EC-10 Earth Dikes and Drainage Swales (ED/DS)



- 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 SWAMP 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.

ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

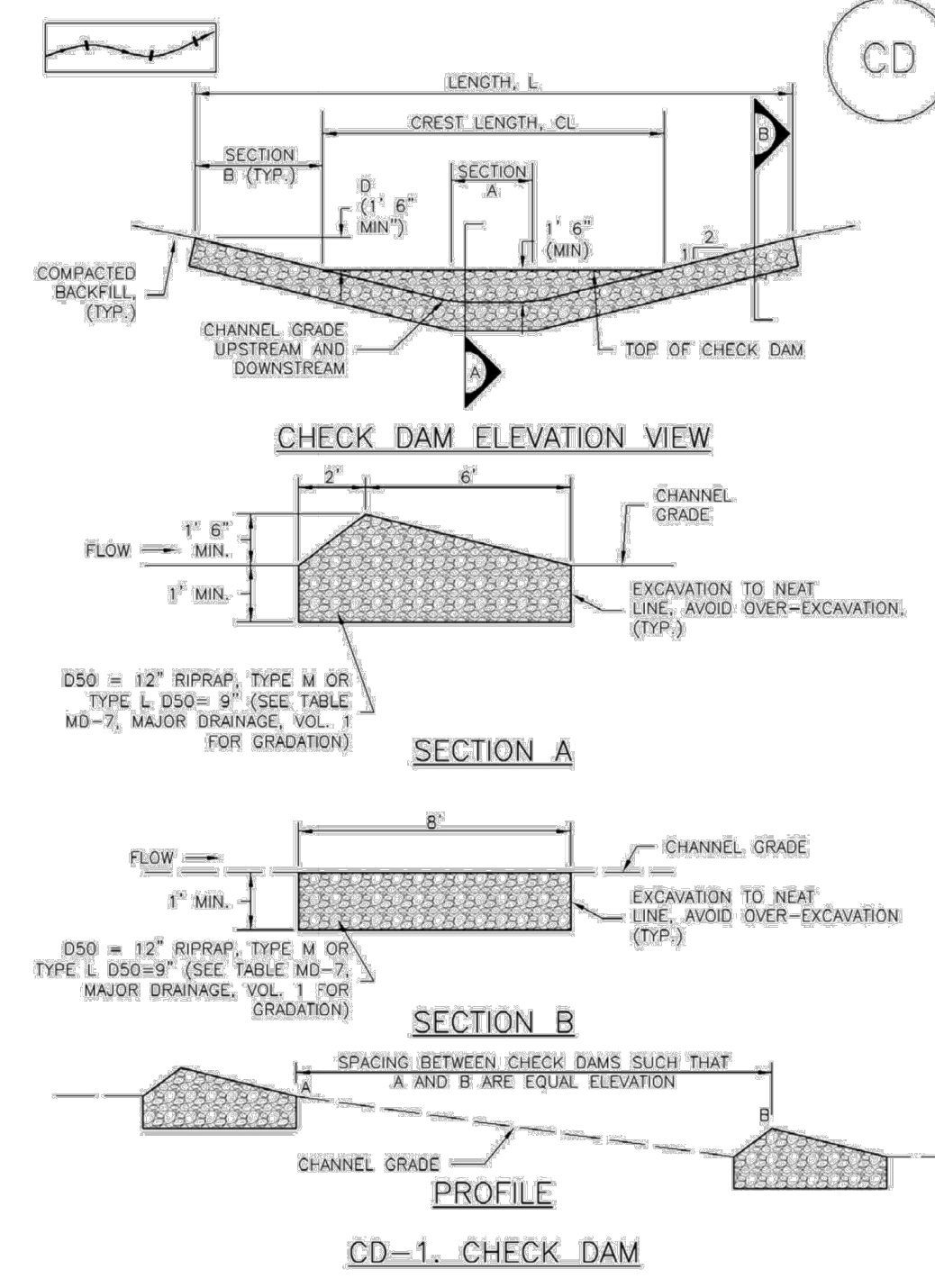
Stabilized Staging Area (SSA) SM-6



- 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.

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

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 SWAMP 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.
 - 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.
 - 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 IUDRD 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 Urban Storm Drainage Criteria Manual Volume 3 November 2010



ENGINEER'S STATEMENT

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 32314
 11/20/23

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			H-SCALE	AS SHOWN	V-SCALE	AS SHOWN	DATE
SAND CREEK RESTORATION	GEC DETAILS	11/20/23	SCH	SCH			
SHEET 121	OF 121	JOB NO.	25188.04				