

BENCHMARK

ELEVATION = 7023.42

ELEVATION = 7000.40

ELEVATION = 7030.82

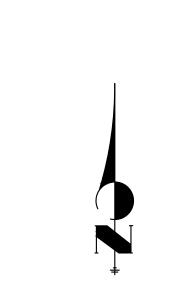
1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION NORTHING = 411416.273 EASTING = 235167.071

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404EASTING = 235052.131

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817

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.



ORIGINAL SCALE: 1" = 400'

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.

DATE JAMES F. MORLEY

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, P.E. COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING JOHAN

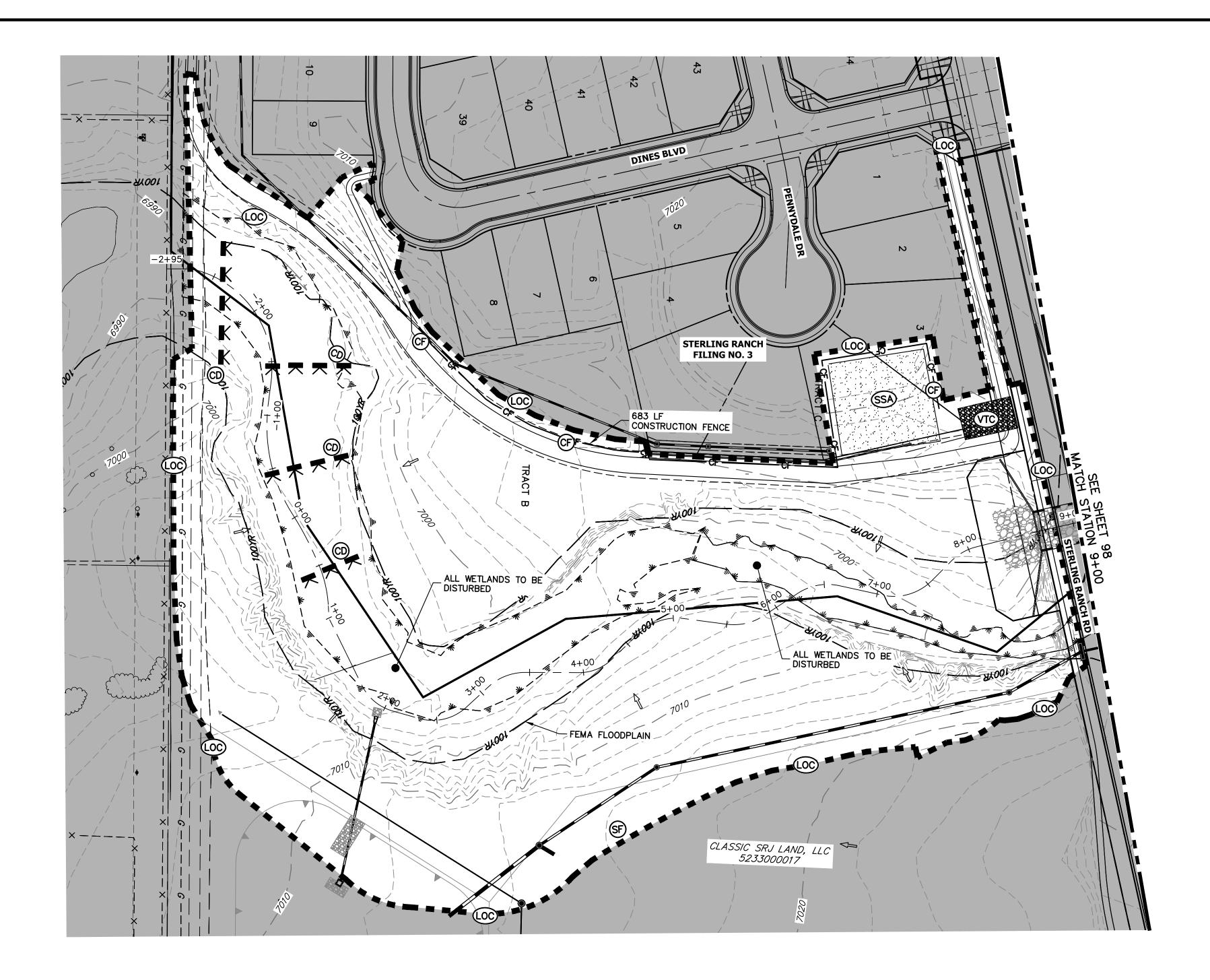
4/18/23

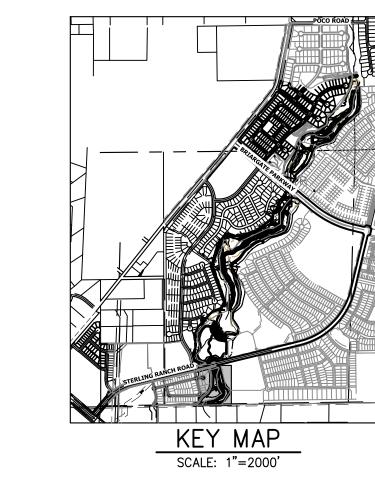
SHEET 96 OF 121 JOB NO. **25188.04**

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







TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

LF - SILT FENCE (SF) LF - CONSTRUCTION FENCE CF EA - CHECK DAMS CD

LS - STABILIZED STAGING AREA SSA

LS - VEHICLE TRACKING CONTROL (VTC)

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION

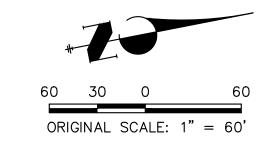
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Mike Brunlett 32314 4/18/23
MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGINEERING ALEMANIA

GE Y	SAND CREEK RESTORATION	GEC INITIAL		
	SHEET	97	OF	121
- 1				

LEGEND

EXISTING CONTOUR

PROPOSED EASEMENT

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

JOB NO. **25188.04**

EASTING = 233849.817ELEVATION = 7030.82

REINFORCED ROCK BERM FOR CULVERT PROTECTION EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION EXISTING RIGHT OF WAY LINE EXISTING EASEMENT SECTION LINE CONSTRUCTION FENCE SILT FENCE EXISTING STORM SEWER

PROPOSED CONTOUR

STABILIZED STAGING AREA PROPOSED STORM SEWER PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE PROPOSED TOE OF SLOPE

STOCK PILE

TEMP DRAINAGE CHANNEL -

SEDIMENT CONTROL LOG SCL PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX WETLANDS TO REMAIN

PERMANENT LANDSCAPING GEOTEXTILE

COIR MATTING

ROUGHENING

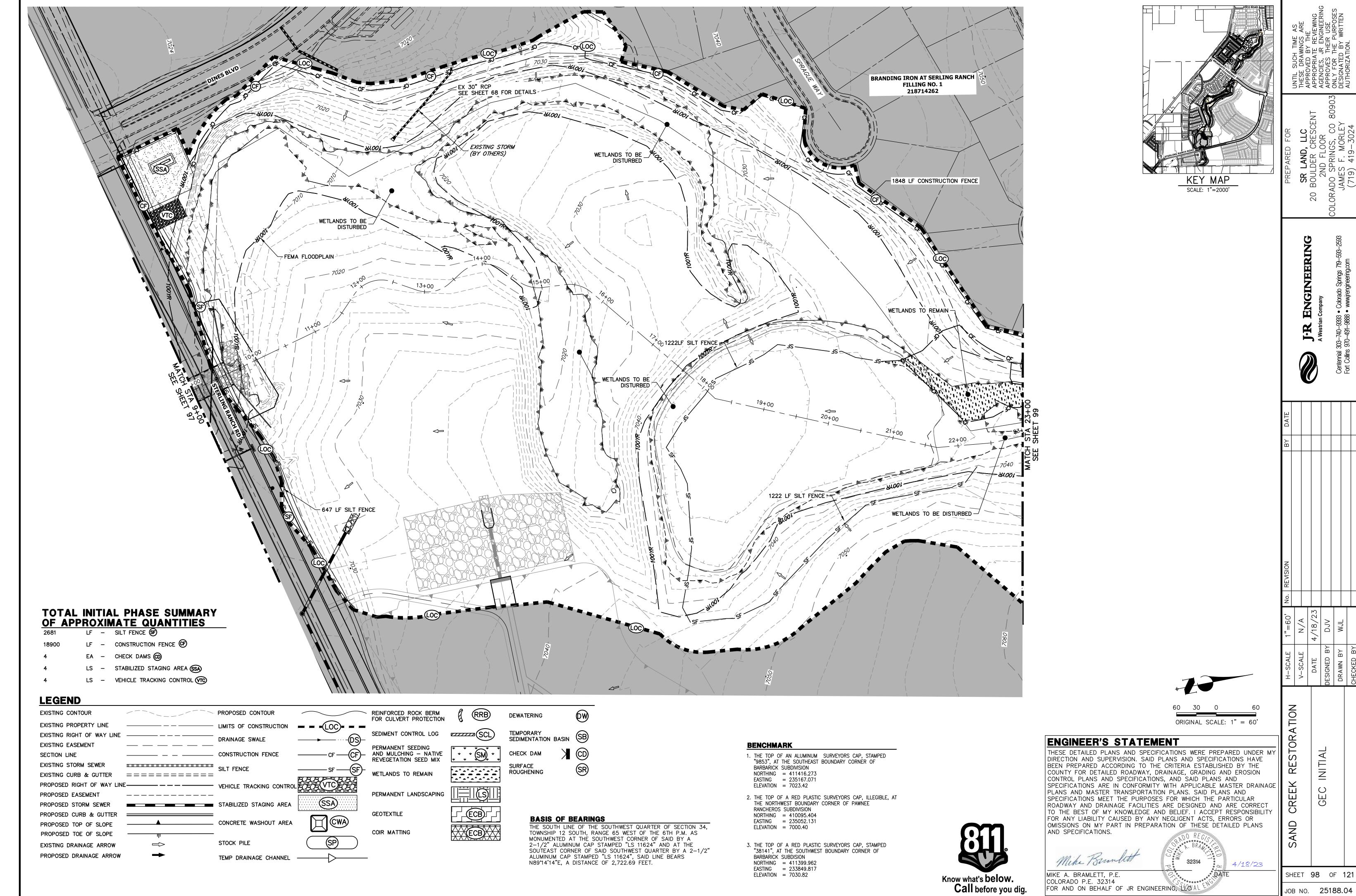
BASIS OF BEARINGS

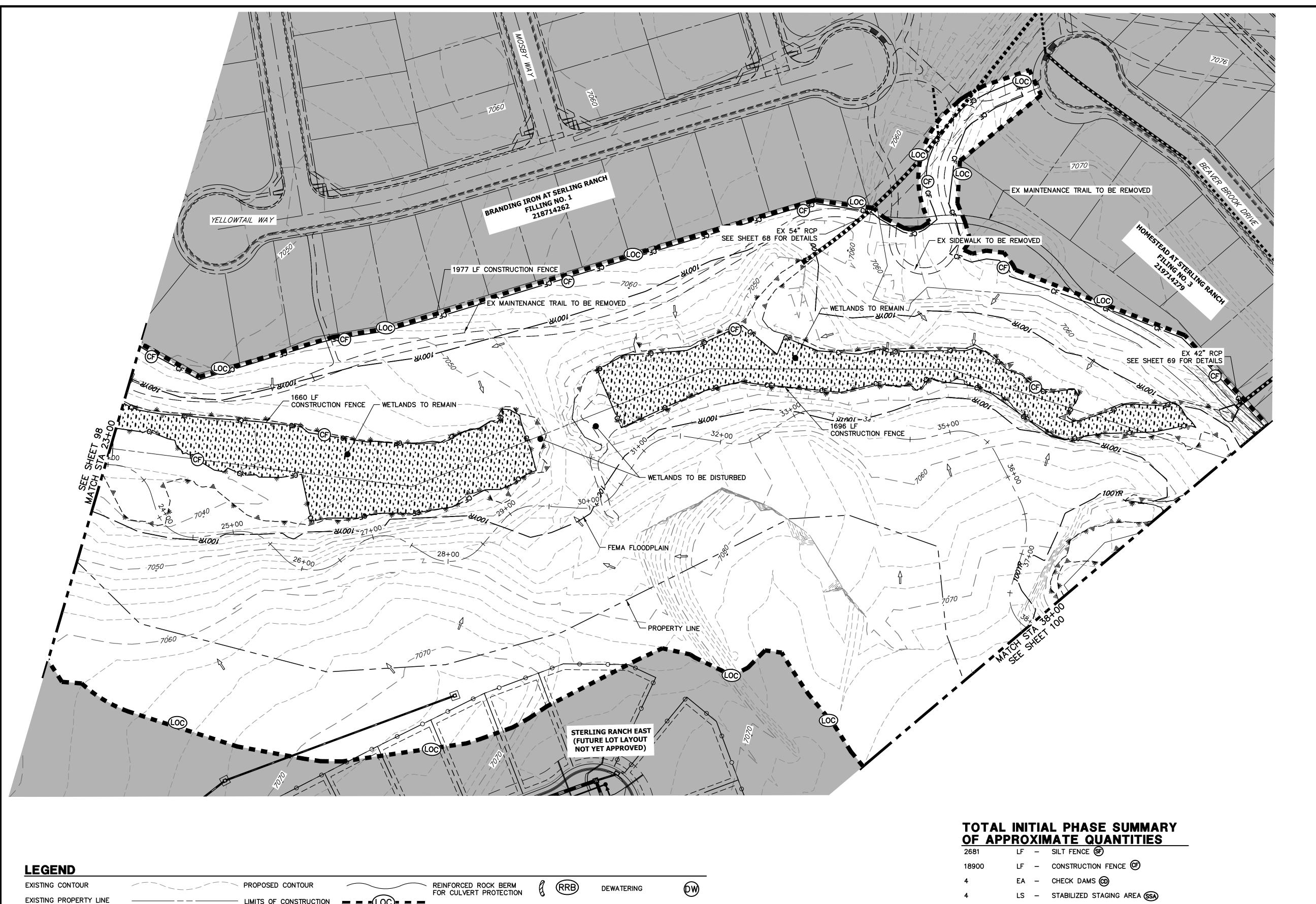
TEMPORARY
SEDIMENTATION BASIN SB

DEWATERING

CHECK DAM

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.





TEMPORARY SEDIMENTATION BASIN

BASIS OF BEARINGS

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SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS

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CHECK DAM

SURFACE ROUGHENING

SEDIMENT CONTROL LOG

(ECB)

PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

PERMANENT LANDSCAPING

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

LS - STABILIZED STAGING AREA (SA)

LS - VEHICLE TRACKING CONTROL (VTC)

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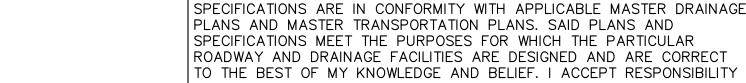
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Know what's below. Call before you dig.





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

ENGINEER'S STATEMENT

4/18/23

ORIGINAL SCALE: 1" = 60'

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SHEET 99 OF 121

EXISTING RIGHT OF WAY

EXISTING STORM SEWER

PROPOSED EASEMENT

EXISTING CURB & GUTTER

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

EXISTING EASEMENT

SECTION LINE

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL ---

CONSTRUCTION FENCE

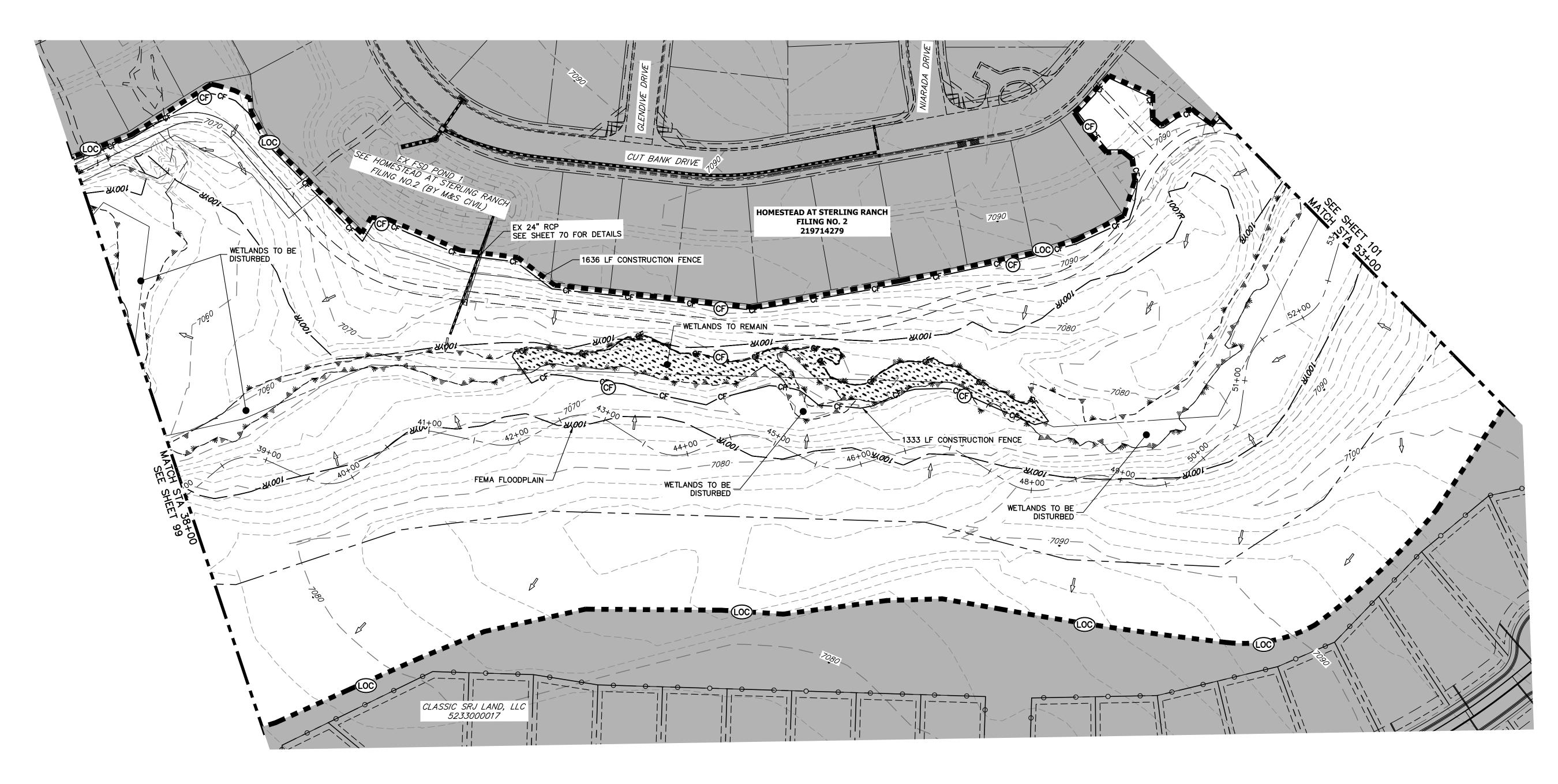
SILT FENCE

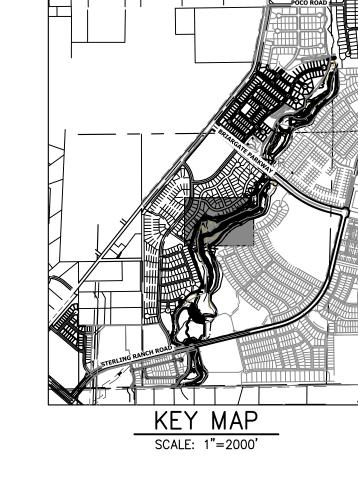
PROPOSED RIGHT OF WAY LINE ----- VEHICLE TRACKING CONTROL

STABILIZED STAGING AREA

STOCK PILE

=========





DATE			
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ORIGINAL SCALE: 1" = 60

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES LF - SILT FENCE SF

LF - CONSTRUCTION FENCE CF EA – CHECK DAMS 📵

LS - STABILIZED STAGING AREA (SSA)

LS - VEHICLE TRACKING CONTROL VTC

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JOB NO. **25188.04**

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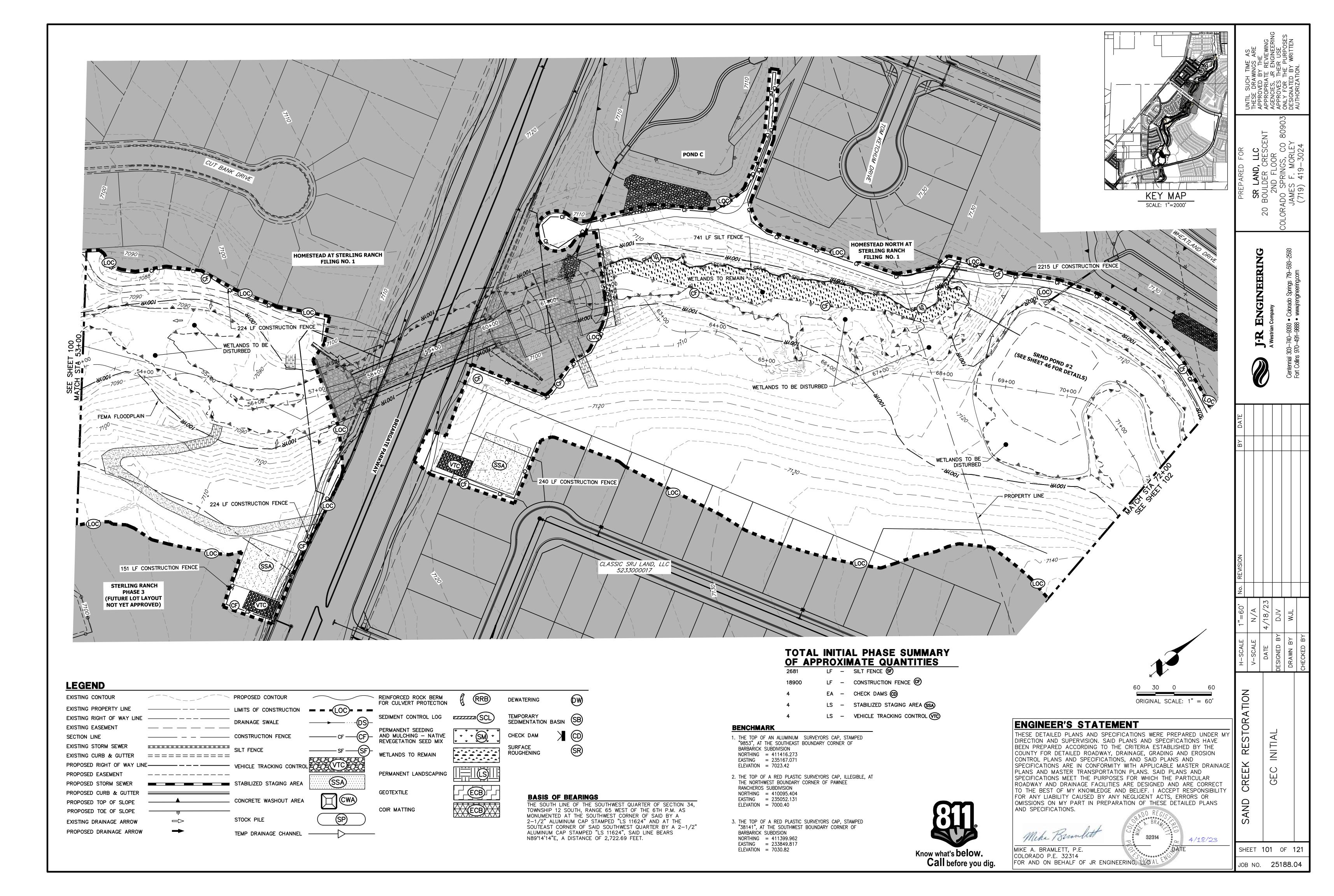
PROPOSED DRAINAGE ARROW

EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)	DEWATERING	(DW)
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)	TON GOLVENT THOTEGRAN			
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG	SCL)	TEMPORARY SEDIMENTATION BASIN	(SB)
EXISTING EASEMENT		DIVAINAGE SWALL		PERMANENT SEEDING	<u> </u>	SEDIMILITATION DASIN	<u> </u>
SECTION LINE		CONSTRUCTION FENCE	——————————————————————————————————————	AND MULCHING - NATIVE REVEGETATION SEED MIX	(CHECK DAM	(CD)
EXISTING STORM SEWER		SILT FENCE		NEVEGETATION SELD WIX		SURFACE	
EXISTING CURB & GUTTER	========	SILT TENOL	21 - 21 - 21 - 21 - 21 - 21 - 21 - 21 -	WETLANDS TO REMAIN		ROUGHENING	(SR)
PROPOSED RIGHT OF WAY LIN	E	VEHICLE TRACKING CONTRO	OLE SE (VTC)				
PROPOSED EASEMENT				PERMANENT LANDSCAPING			
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)				
PROPOSED CURB & GUTTER				GEOTEXTILE	LT_(ECB)T_T	DA010 0F F	
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA				BASIS OF E	
PROPOSED TOE OF SLOPE	— п			COIR MATTING	(ECB)	TOWNSHIP 12 S	SOUTH, R
EXISTING DRAINAGE ARROW	\Rightarrow	STOCK PILE	(SP)			MONUMENTED A 2-1/2" ALUMIN	NUM CAP

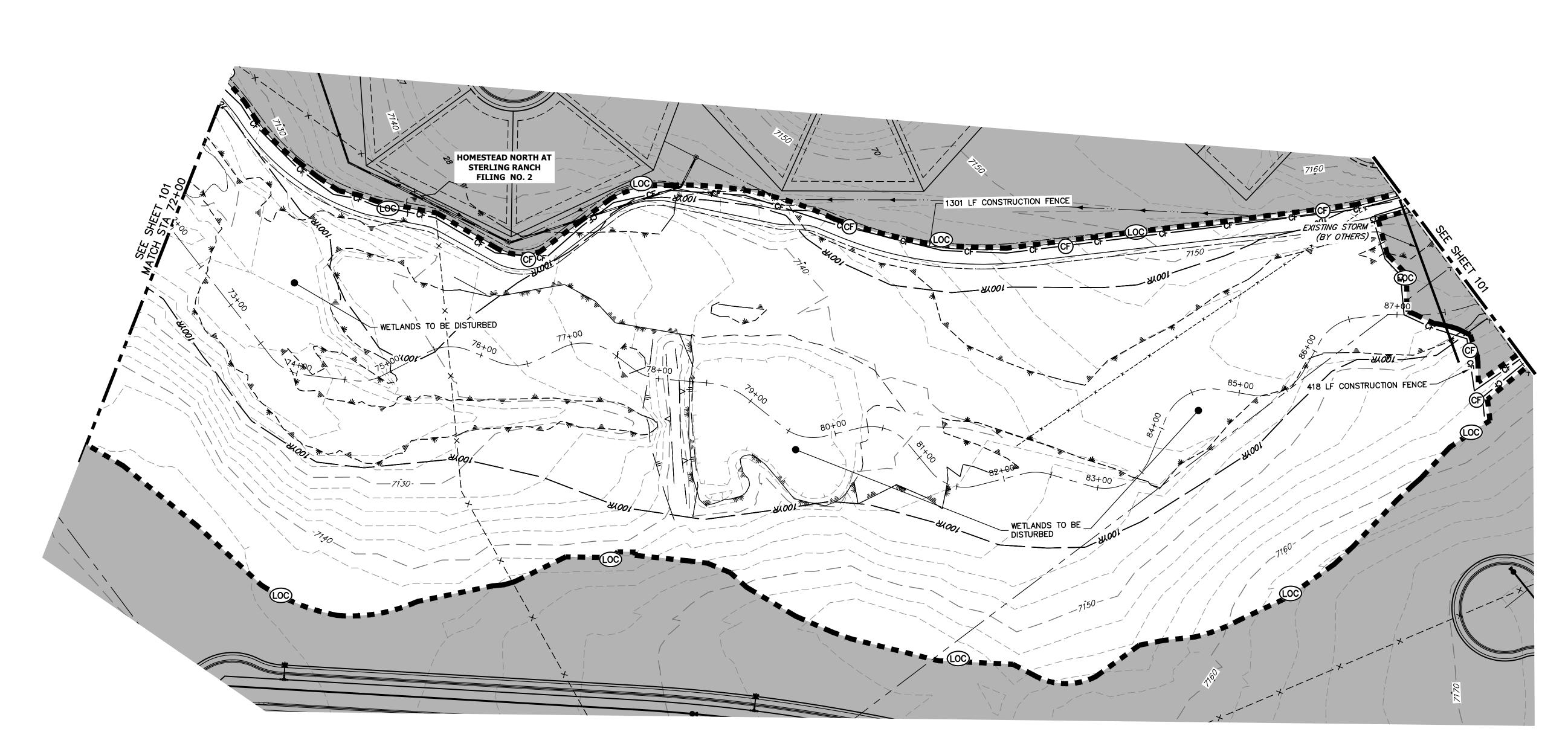
TEMP DRAINAGE CHANNEL —

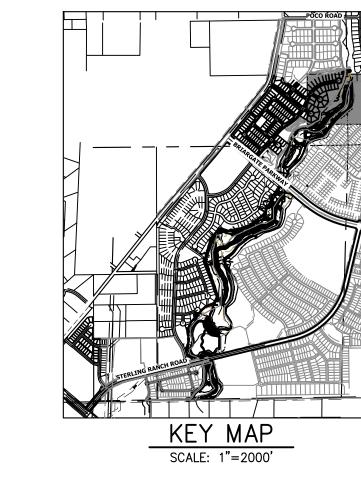
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SALE	1"=60' No. REVISION	No.	REVISION
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ORATION ORIGINAL SCALE: 1" = 60

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

LF - SILT FENCE **SF** LF - CONSTRUCTION FENCE (F) EA - CHECK DAMS 📵

LS - STABILIZED STAGING AREA SSA

LS - VEHICLE TRACKING CONTROL (TC)

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BRALL COMMENTERS
Mike Bunlith 32314 32314 4/18/23
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MIKE A. BRAMLETT, P.E.

SHEET 102 OF 121 JOB NO. **25188.04**

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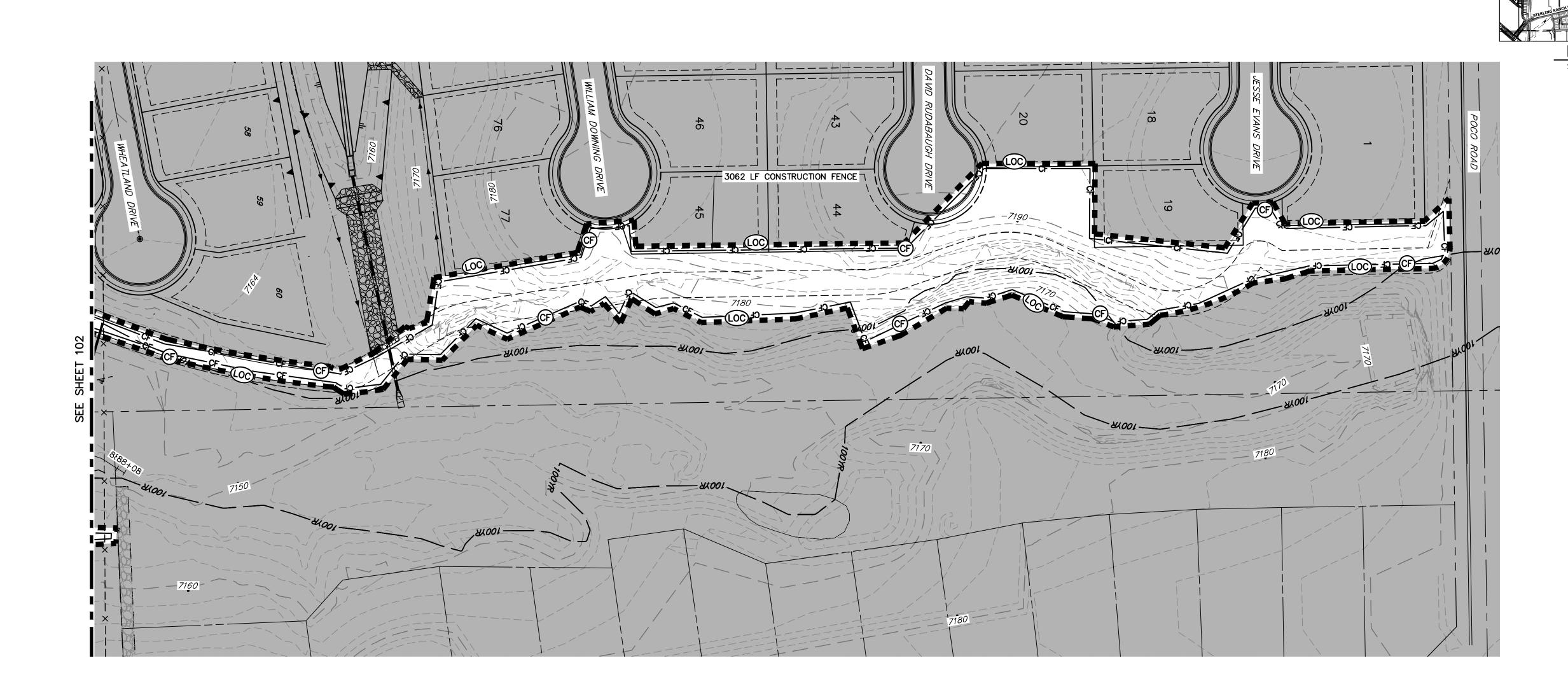
EXISTING CONTOUR	/	PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
EXISTING PROPERTY LINE		- LIMITS OF CONSTRUCTION	(LOC)		
EXISTING RIGHT OF WAY LINE	:	_ DRAINAGE SWALE		SEDIMENT CONTROL LOG	SCL)
EXISTING EASEMENT		- DIVAINAGE SWALE		PERMANENT SEEDING	<u> </u>
SECTION LINE		CONSTRUCTION FENCE	CF	AND MULCHING - NATIVE REVEGETATION SEED MIX	* * * (SM) *
EXISTING STORM SEWER		SILT FENCE	SFSF		
EXISTING CURB & GUTTER	=========	≡		WETLANDS TO REMAIN	
PROPOSED RIGHT OF WAY LIN	NE	- VEHICLE TRACKING CONTRO	L POPE (VTC)		
PROPOSED EASEMENT		_		PERMANENT LANDSCAPING	
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)		
PROPOSED CURB & GUTTER		■		GEOTEXTILE	L/_ECB/_
PROPOSED TOP OF SLOPE		_ CONCRETE WASHOUT AREA	(CWA)		
PROPOSED TOE OF SLOPE		_		COIR MATTING	ECB)XX
PROPOSED TOE OF SLOPE	ılı	STOCK DILE	(SP)		XXX
EXISTING DRAINAGE ARROW		STOCK PILE	(SF)		
PROPOSED DRAINAGE ARROW	-	TEMP DRAINAGE CHANNEL			

TEMPORARY SEDIMENTATION BASIN CHECK DAM SURFACE ROUGHENING

DEWATERING

BASIS OF BEARINGS

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PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

PROPOSED RIGHT OF WAY LINE — — — — VEHICLE TRACKING CONTROL

STABILIZED STAGING AREA

=========

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL ----

STOCK PILE

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

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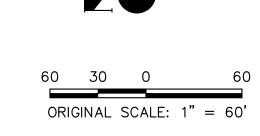
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Mike Brunlett 32314 4/18/
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-	SHEET 1	103	OF	121
	IOD NO	25	100	0.04

TION

SAND

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

EXISTING CURB & GUTTER

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE

 \circ



TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA EA - CHECK DAMS LF - SEDIMENT CONTROL LOGS EA - TEMPORARY SEDIMENT BASIN

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE

PROPOSED DRAINAGE ARROW

	PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	RRB	DEWATERING	(W)
	LIMITS OF CONSTRUCTION DRAINAGE SWALE	Loc	SEDIMENT CONTROL LOG	SCL)	TEMPORARY SEDIMENTATION BASIN	(SB)
	CONSTRUCTION FENCE		PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX	* * * * (SM) * * *	CHECK DAM	(CD)
========	SILT FENCE	SFSF	WETLANDS TO REMAIN	********	SURFACE ROUGHENING	SR

COIR MATTING

SILT FENCE EXISTING STORM SEWER PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER PROPOSED CURB & GUTTER PROPOSED TOP OF SLOPE PROPOSED TOE OF SLOPE STOCK PILE EXISTING DRAINAGE ARROW

CONCRETE WASHOUT AREA TEMP DRAINAGE CHANNEL ----

***** PERMANENT LANDSCAPING GEOTEXTILE

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.

BENCHMARK

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

ELEVATION = 7030.82

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817











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SCALE	1"=60' No. REVISION	No.	ВХ
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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

ORIGINAL SCALE: 1" = 60

4/18/23

ENGINEER'S STATEMENT

FOR AND ON BEHALF OF JR ENGINEERING ALL

AND SPECIFICATIONS.

MIKE A. BRAMLETT, P.E.

COLORADO P.E. 32314

CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND

PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND

SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR

FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR

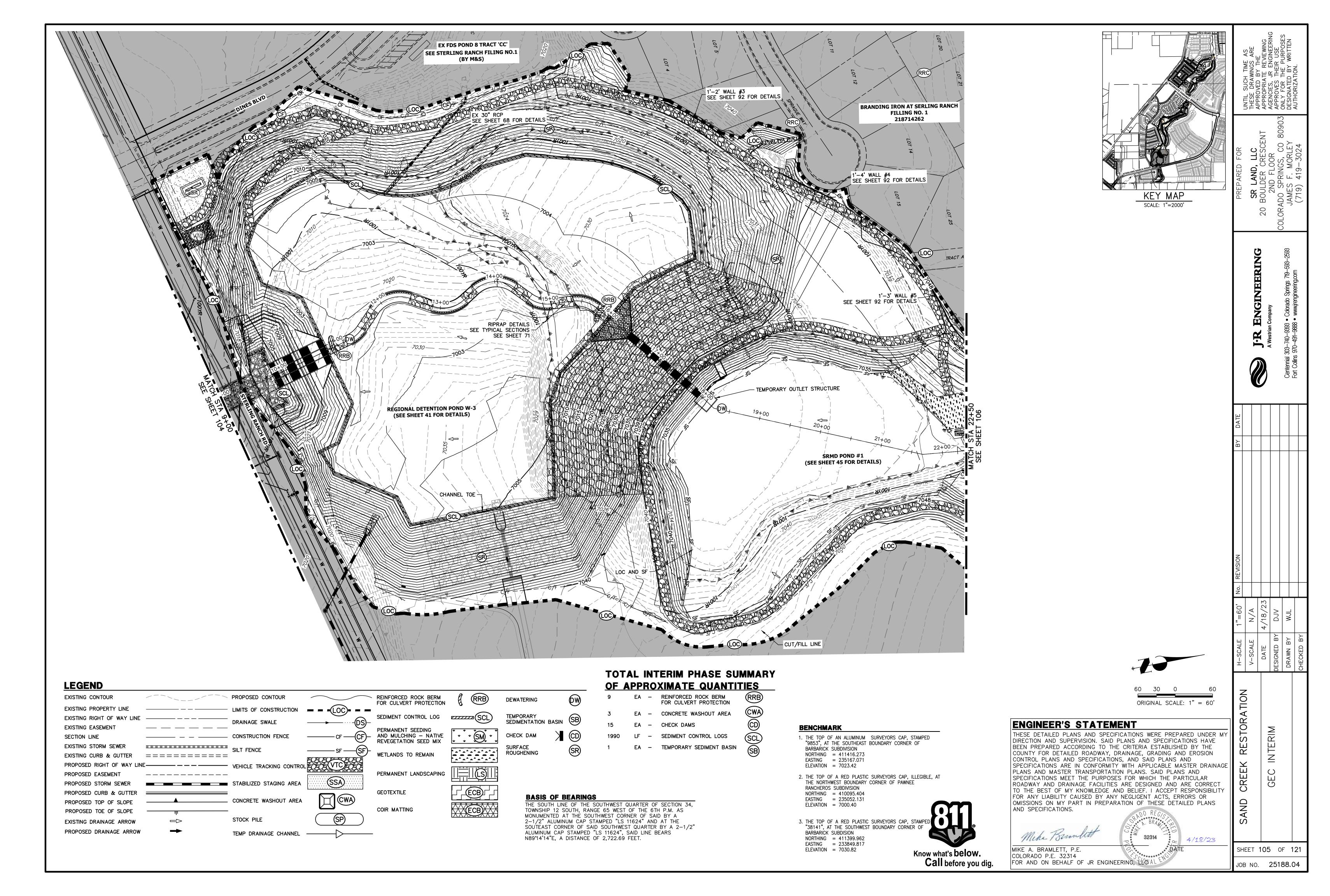
OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS

ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT

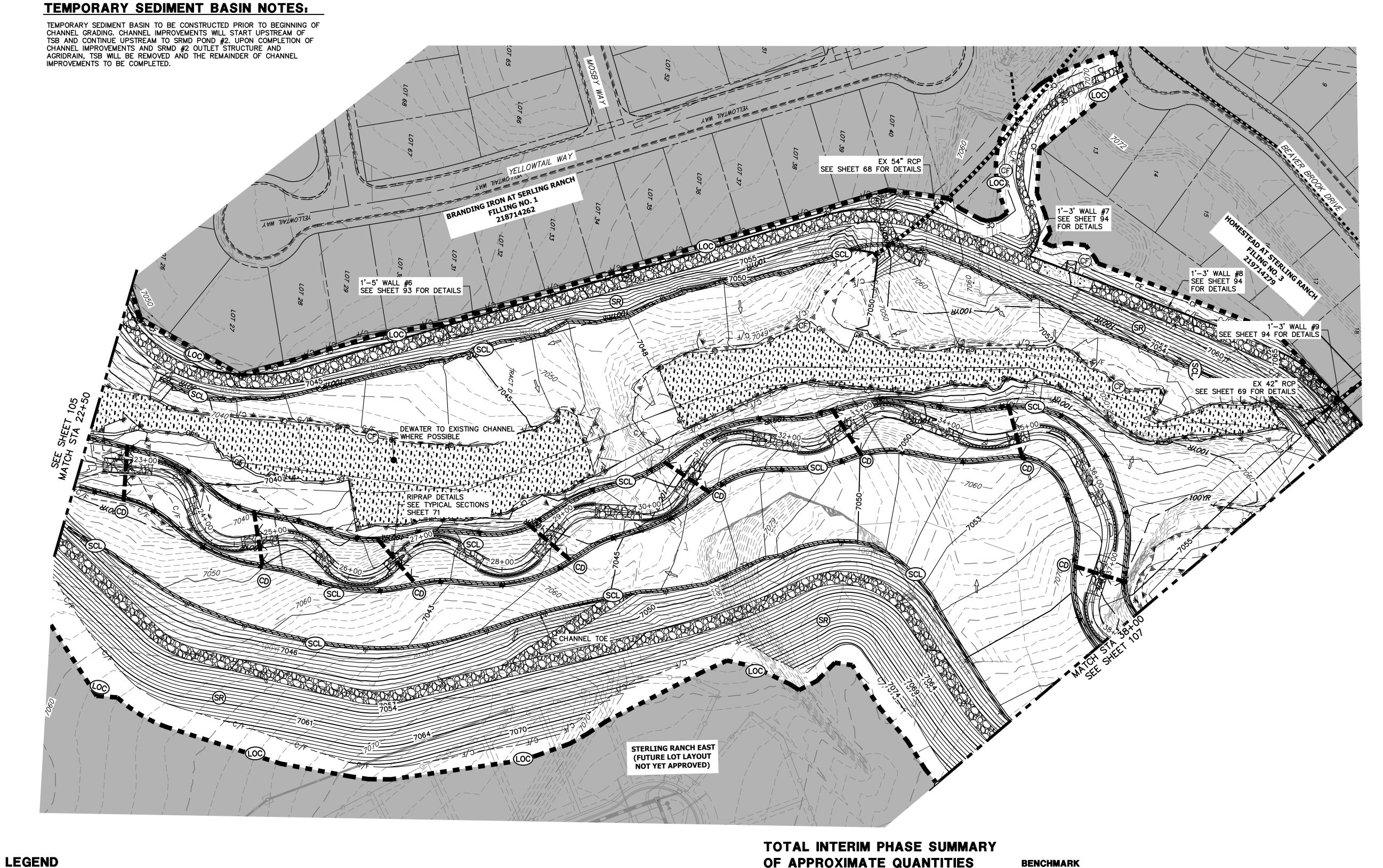
TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY

SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE

SHEET 104 OF 121



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OF APPROXIMATE QUANTITIES

<u> </u>		JANNA I E GOANIII	<u> </u>
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

DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY SEDIMENTATION BASIN

REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

PERMANENT LANDSCAPING

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

SEDIMENT CONTROL LOG

(ECB)

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

STABILIZED STAGING AREA

=========

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL ----

STOCK PILE

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.

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- 3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF

BARBARICK SUBDISION NORTHING = 411399.962 EASTING = 233849.817ELEVATION = 7030.82



Know what's below. Call before you dig.

60 30 0 ORIGINAL SCALE: 1" = 60

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

MIKE A. BRAMLETT, P.E.

AND SPECIFICATIONS.

COLORADO P.E. 32314

4/18/23 FOR AND ON BEHALF OF JR ENGINEERING JOHAN

SHEET 106 OF 121 JOB NO. **25188.04**

MOIL

EXISTING CONTOUR

EXISTING EASEMENT

SECTION LINE

EXISTING PROPERTY LINE

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

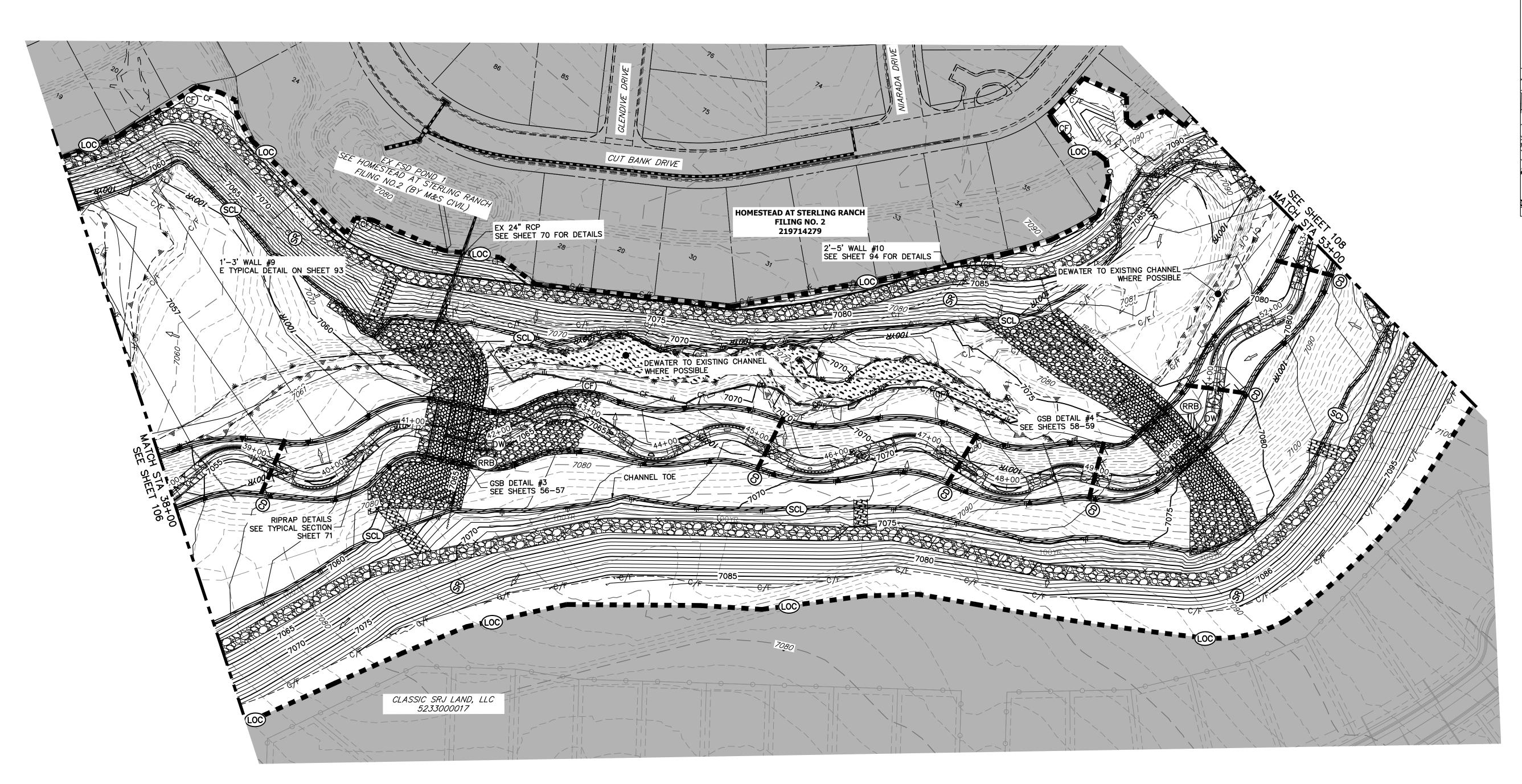
PROPOSED DRAINAGE ARROW

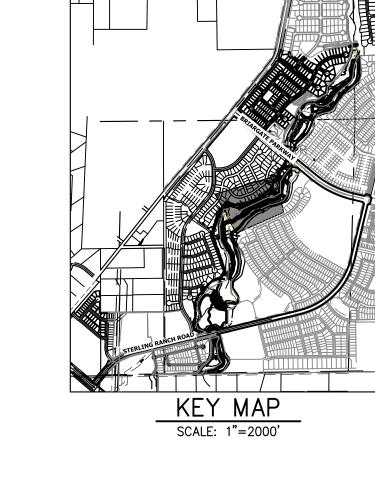
EXISTING CURB & GUTTER

EXISTING RIGHT OF WAY LINE

ELEVATION = 7023.42

ELEVATION = 7000.40





ENGINEER'S STATEMENT

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

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PROPOSED DRAINAGE ARROW

LEGEND					
EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)	TOR GOLVERY TROTEGROU	
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG	SCL)
EXISTING EASEMENT		DIVANIAGE SWALE		PERMANENT SEEDING	
SECTION LINE		CONSTRUCTION FENCE	CF	AND MULCHING - NATIVE REVEGETATION SEED MIX	* * * (SM) * ;
EXISTING STORM SEWER		SILT FENCE			
EXISTING CURB & GUTTER	=========	SIET TENGE		WETLANDS TO REMAIN	
PROPOSED RIGHT OF WAY LIN	E	VEHICLE TRACKING CONTROL	LESS (VTC)		
PROPOSED EASEMENT				PERMANENT LANDSCAPING	
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)		
PROPOSED CURB & GUTTER				GEOTEXTILE	L-LECB)-L-
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA	CWA)		
PROPOSED TOE OF SLOPE				COIR MATTING	(ECB)
EXISTING DRAINAGE ARROW	➡>	STOCK PILE			

TEMP DRAINAGE CHANNEL ----

TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

DEWATERING TEMPORARY SEDIMENTATION BASIN CHECK DAM SURFACE ROUGHENING

EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA EA - CHECK DAMS

SEDIMENT CONTROL LOGS EA - TEMPORARY SEDIMENT BASIN

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.

BENCHMARK

ELEVATION = 7023.42

ELEVATION = 7000.40

EASTING = 233849.817

ELEVATION = 7030.82

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION NORTHING = 411416.273EASTING = 235167.071

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404EASTING = 235052.131

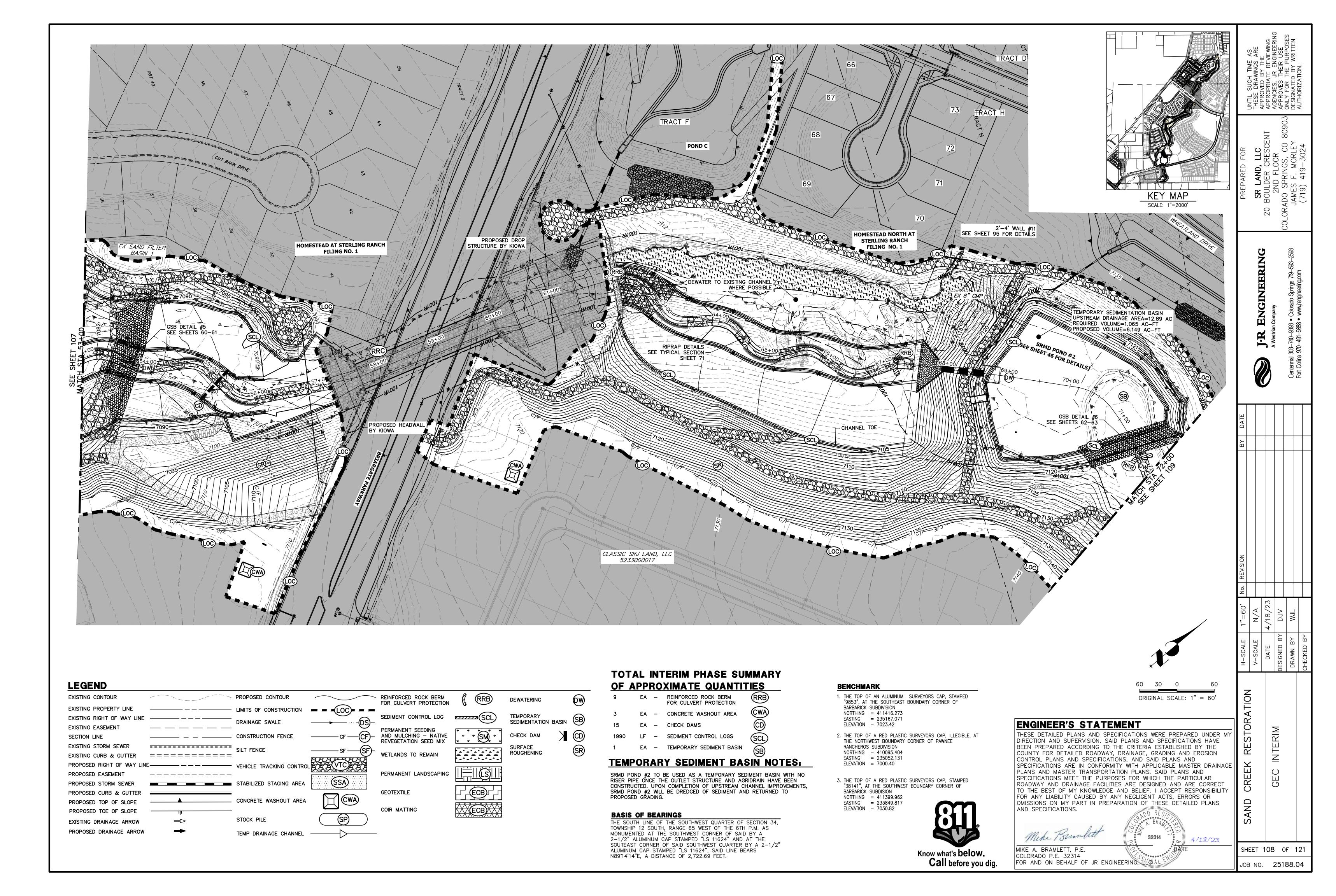
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962

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

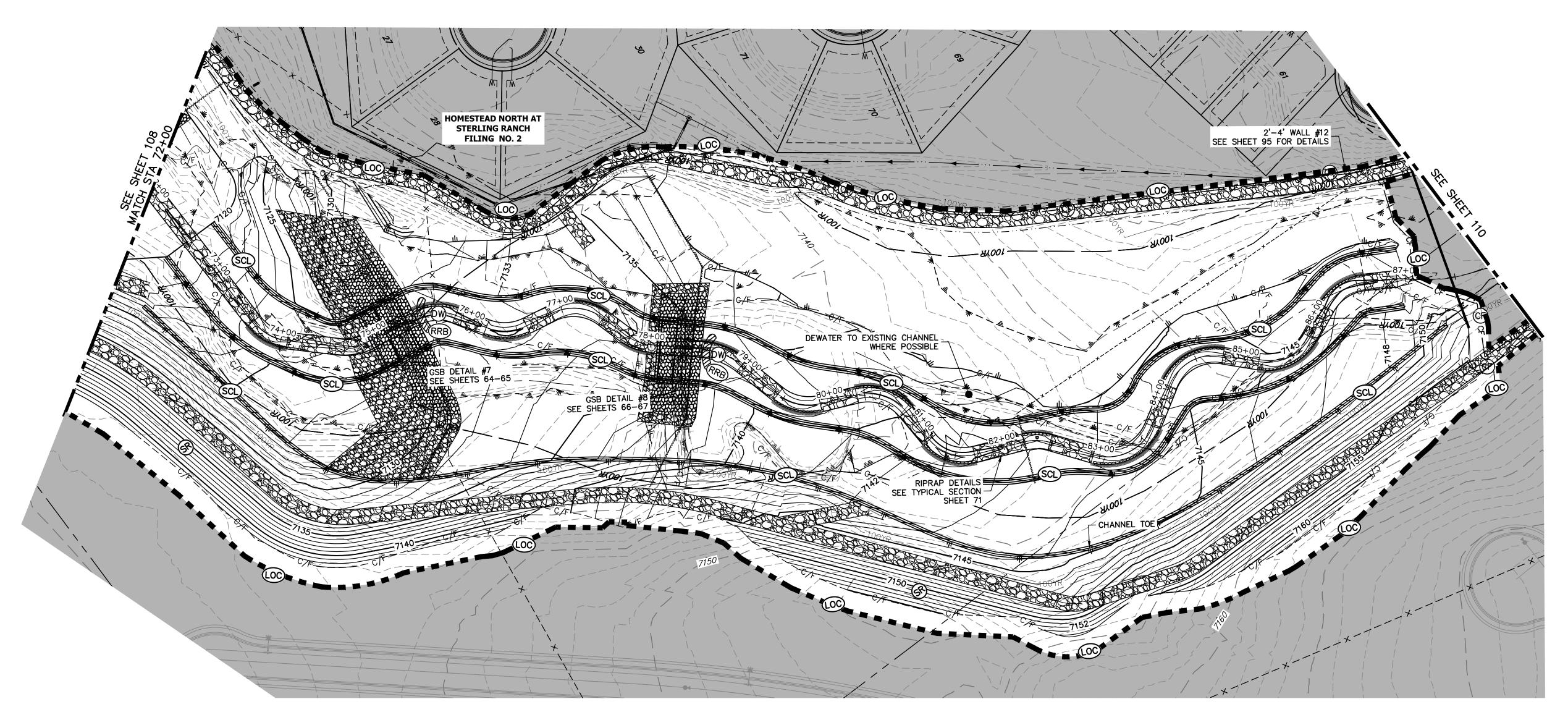
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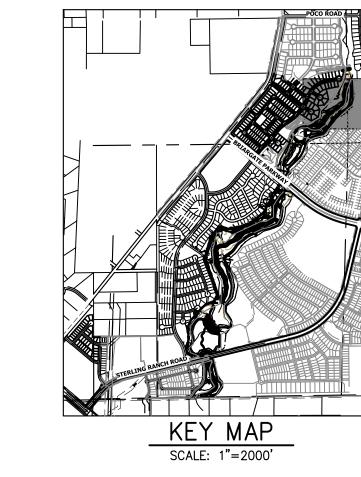
ORIGINAL SCALE: 1" = 60"

SHEET 107 OF 121 JOB NO. **25188.04**



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60 30 0 60 ORIGINAL SCALE: 1" = 60'

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.

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

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low.	MIKE

Know what's below. Call before you dig. 4/18/23 SHEET 109 OF 121

JOB NO. **25188.04**

LEGEND

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BER
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)	
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG
EXISTING EASEMENT			9 03	PERMANENT SEEDING
SECTION LINE		CONSTRUCTION FENCE	cF	AND MULCHING — NATI REVEGETATION SEED MI
EXISTING STORM SEWER		SILT FENCE	SF	
EXISTING CURB & GUTTER	=========			WETLANDS TO REMAIN
PROPOSED RIGHT OF WAY LINE	Ē	VEHICLE TRACKING CONTROL	VTC)	
PROPOSED EASEMENT				PERMANENT LANDSCAPI
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)	
PROPOSED CURB & GUTTER				GEOTEXTILE
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA	(CWA)	
PROPOSED TOE OF SLOPE	— п			COIR MATTING

STOCK PILE

TEMP DRAINAGE CHANNEL ----

RFINFORCED ROCK BERM **DEWATERING**

TEMPORARY
SEDIMENTATION BASIN SB SURFACE ROUGHENING

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.

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)

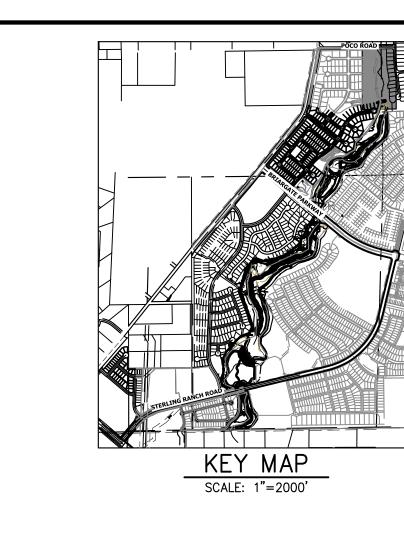
TOTAL INTERIM PHASE SUMMARY

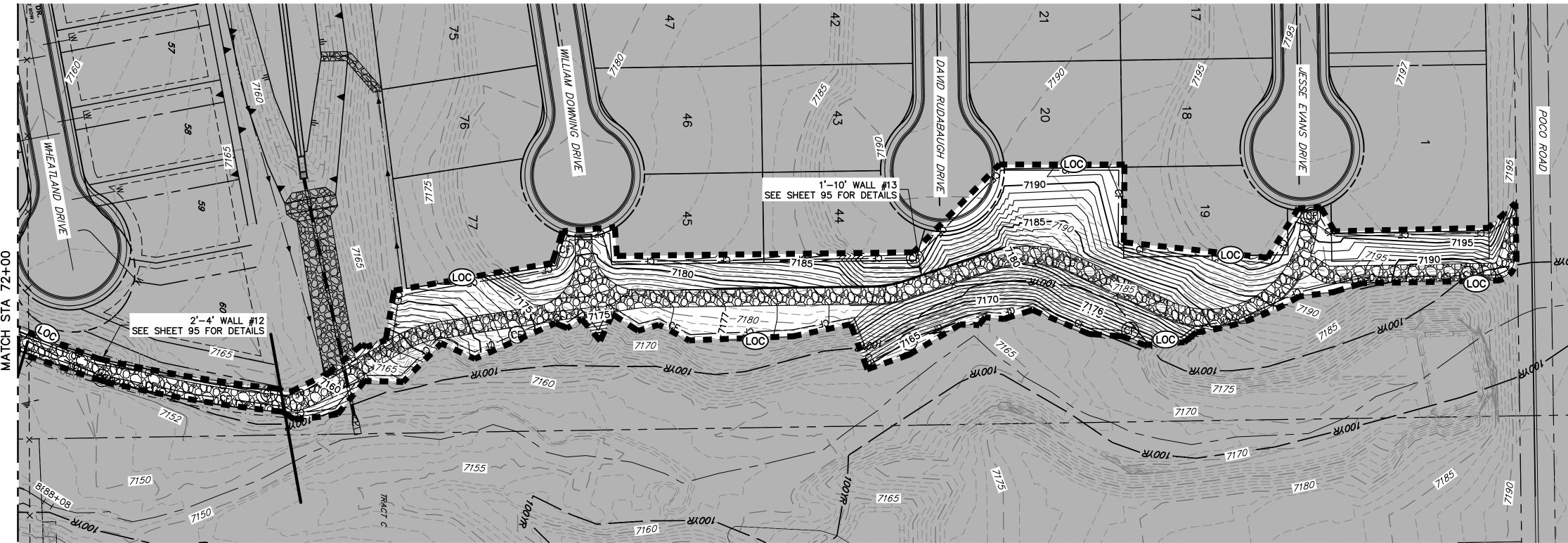
BENCHMARK 1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF

BARBARICK SUBDIVISION NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404EASTING = 235052.131ELEVATION = 7000.40

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817ELEVATION = 7030.82





TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

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

EXISTING CONTOUR	/	PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)	DEWATERING	(DW)
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)				
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG	EXXXXX (SCL)	TEMPORARY SEDIMENTATION BASIN	(SB)
EXISTING EASEMENT		DIVANAGE SWALE		PERMANENT SEEDING	[\frac{1}{2} \frac{1}{2} \frac	SEPIMENTATION BASIN	
SECTION LINE		CONSTRUCTION FENCE	cF	AND MULCHING — NATIVE REVEGETATION SEED MIX	, * , * (SM), * ,	CHECK DAM	(CD)
EXISTING STORM SEWER		SILT FENCE		NEVEOLIATION SEED WITH		SURFACE	(SR)
EXISTING CURB & GUTTER	=========	SIET TENOE		WETLANDS TO REMAIN		ROUGHENING	
PROPOSED RIGHT OF WAY LINE	E	VEHICLE TRACKING CONTROL	_ESS (VTC)				
PROPOSED EASEMENT				PERMANENT LANDSCAPING			
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)				
PROPOSED CURB & GUTTER				GEOTEXTILE	L'LECB) L'L		
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA	[[(CWA)			BASIS OF B	
PROPOSED TOE OF SLOPE				COIR MATTING	ECB)	TOWNSHIP 12 S	SOUTH, RA
	ч.	OTOOK BUE				MONUMENTED A	T THE S

STOCK PILE

TEMP DRAINAGE CHANNEL ----

SIS 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.

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BARBARICK SUBDIVISION

NORTHING = 411416.273

EASTING = 235167.071ELEVATION = 7023.42

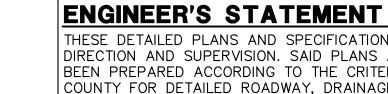
ELEVATION = 7030.82

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817

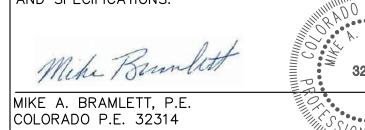
1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT





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4/18/23 FOR AND ON BEHALF OF JR ENGINEERING

60 30 0

ORIGINAL SCALE: 1" = 60'

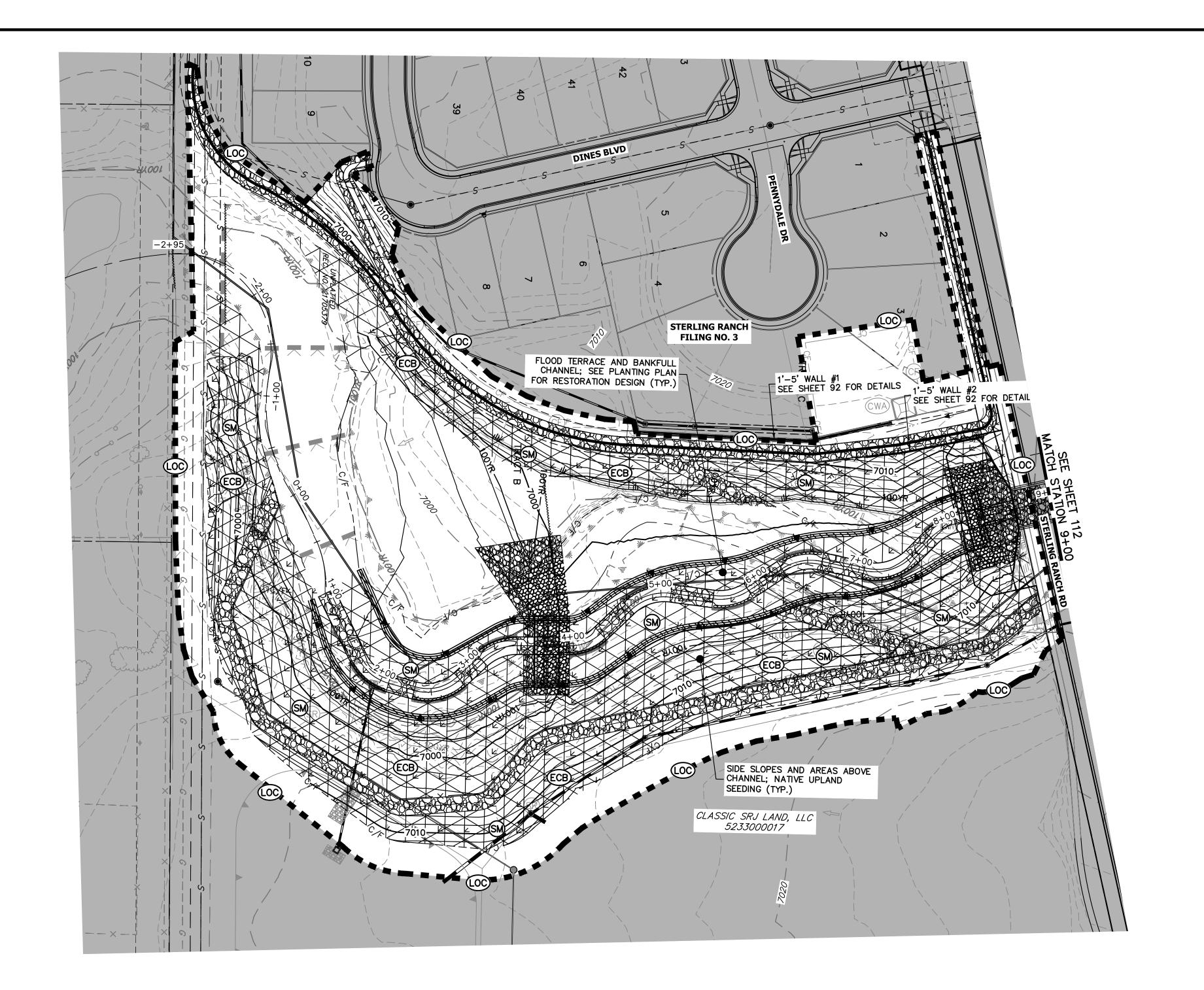
SAND CREEK RESTORATION	GEC INTERIM	
SHEET 1	110 OF	121

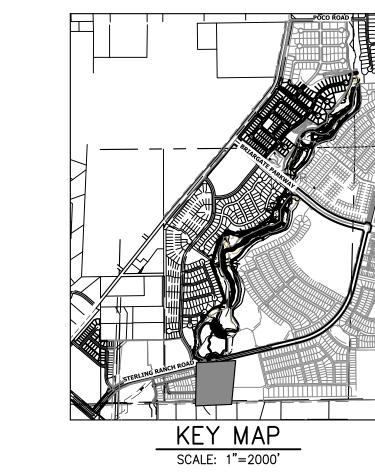
JOB NO. **25188.04**

LEGEND

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW





ORIGINAL SCALE: 1" = 60

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

AC - SEEDING & MULCHING (UPLAND)
AC - SEEDING & MULCHING (WETLAND)
AC - GEOTEXTILE 48.65 2.55 1.25

32.58 AC – COIR MATTING

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF

NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42

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EASTING = 235052.131

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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 ENGINEEI

S FOR WHICH THE PARTICULAR ARE DESIGNED AND ARE CORRECT ND BELIEF. I ACCEPT RESPONSIBILITY NEGLIGENT ACTS, ERRORS OR ATION OF THESE DETAILED PLANS BRAME BRAM 32314 4/18/23	SAND CREE	<u>ا</u>
PATE	SHEET	111
ERING JOVAL	JOB NO.	2

OF **121** JOB NO. **25188.04**

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EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

PROPOSED CONTOUR EXISTING CONTOUR EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION EXISTING RIGHT OF WAY LINE EXISTING EASEMENT SECTION LINE CONSTRUCTION FENCE SILT FENCE EXISTING STORM SEWER WETLANDS TO REMAIN PERMANENT LANDSCAPING PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER GEOTEXTILE PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE COIR MATTING PROPOSED TOE OF SLOPE

STOCK PILE

TEMP DRAINAGE CHANNEL ----

REINFORCED ROCK BERM FOR CULVERT PROTECTION **DEWATERING** SEDIMENT CONTROL LOG SCL PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX CHECK DAM ROUGHENING

(ECB)

TEMPORARY
SEDIMENTATION BASIN SB

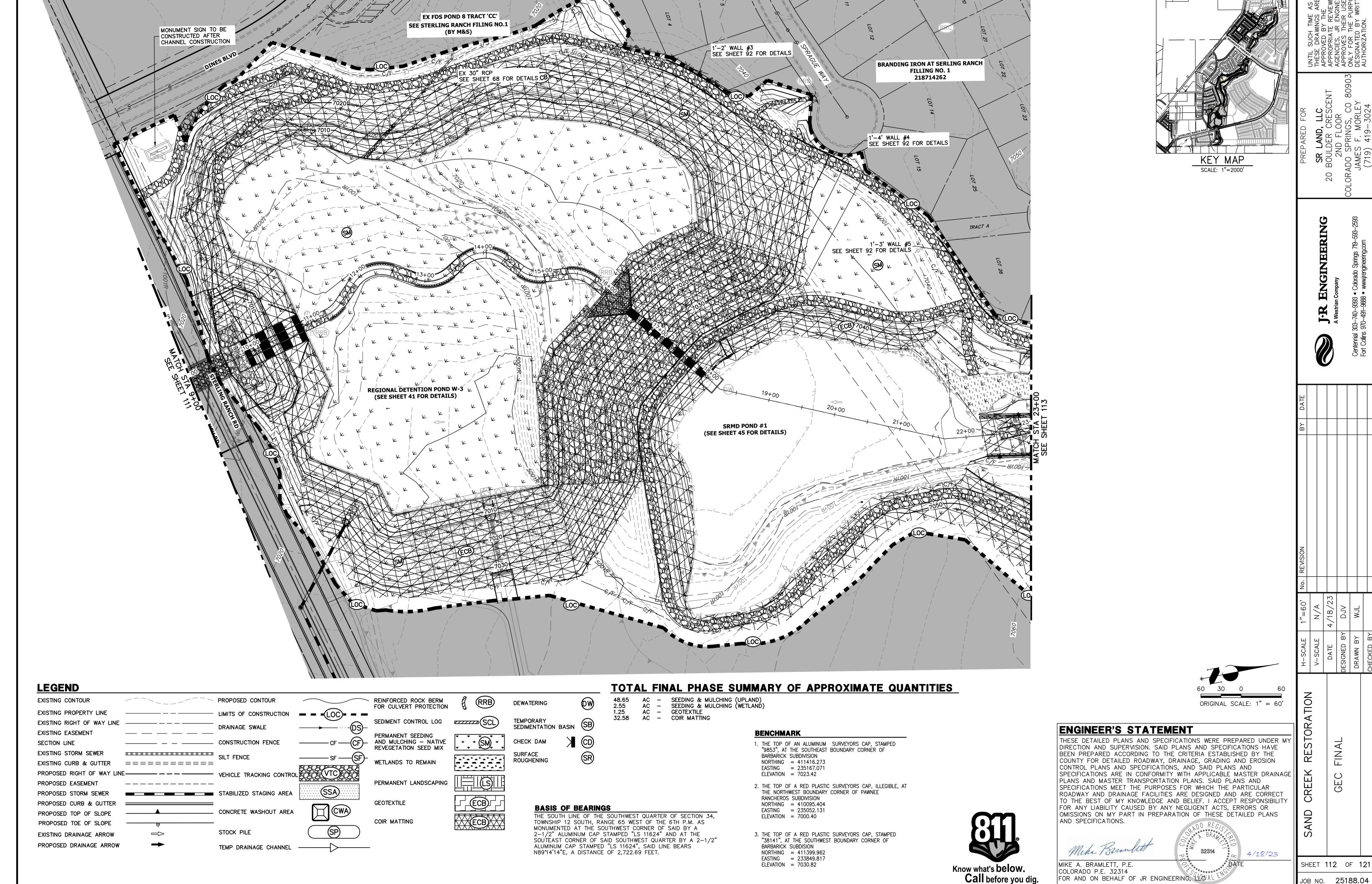
BASIS OF BEARINGS

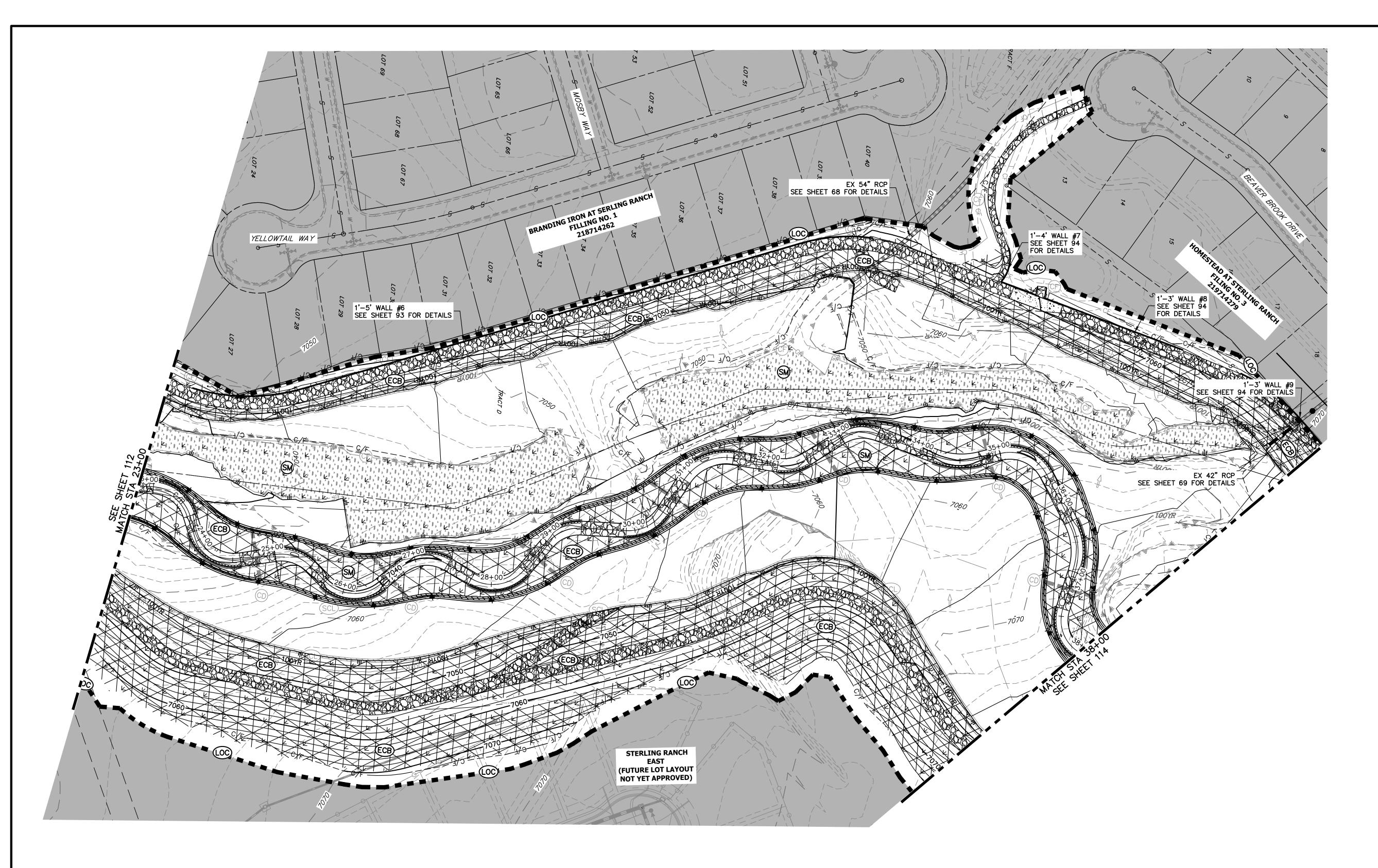
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BARBARICK SUBDIVISION

ELEVATION = 7000.40

ELEVATION = 7030.82





DEWATERING

CHECK DAM

SURFACE ROUGHENING

TEMPORARY SEDIMENTATION BASIN SB

BASIS OF BEARINGS

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REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

PERMANENT LANDSCAPING

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

SEDIMENT CONTROL LOG

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

STABILIZED STAGING AREA

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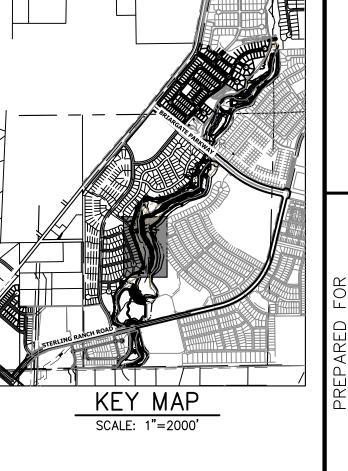
LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL ----

STOCK PILE





ORIGINAL SCALE: 1" = 60'

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

AC - SEEDING & MULCHING (UPLAND) AC - SEEDING & MULCHING (WETLAND) AC - GEOTEXTILE 2.55 1.25 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 = 411416.273EASTING = 235167.071ELEVATION = 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 = 235052.131ELEVATION = 7000.40

ELEVATION = 7030.82

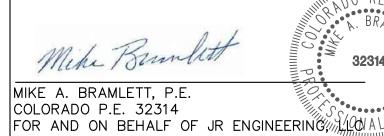
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	CREEK

SHEET 113 OF 121 JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

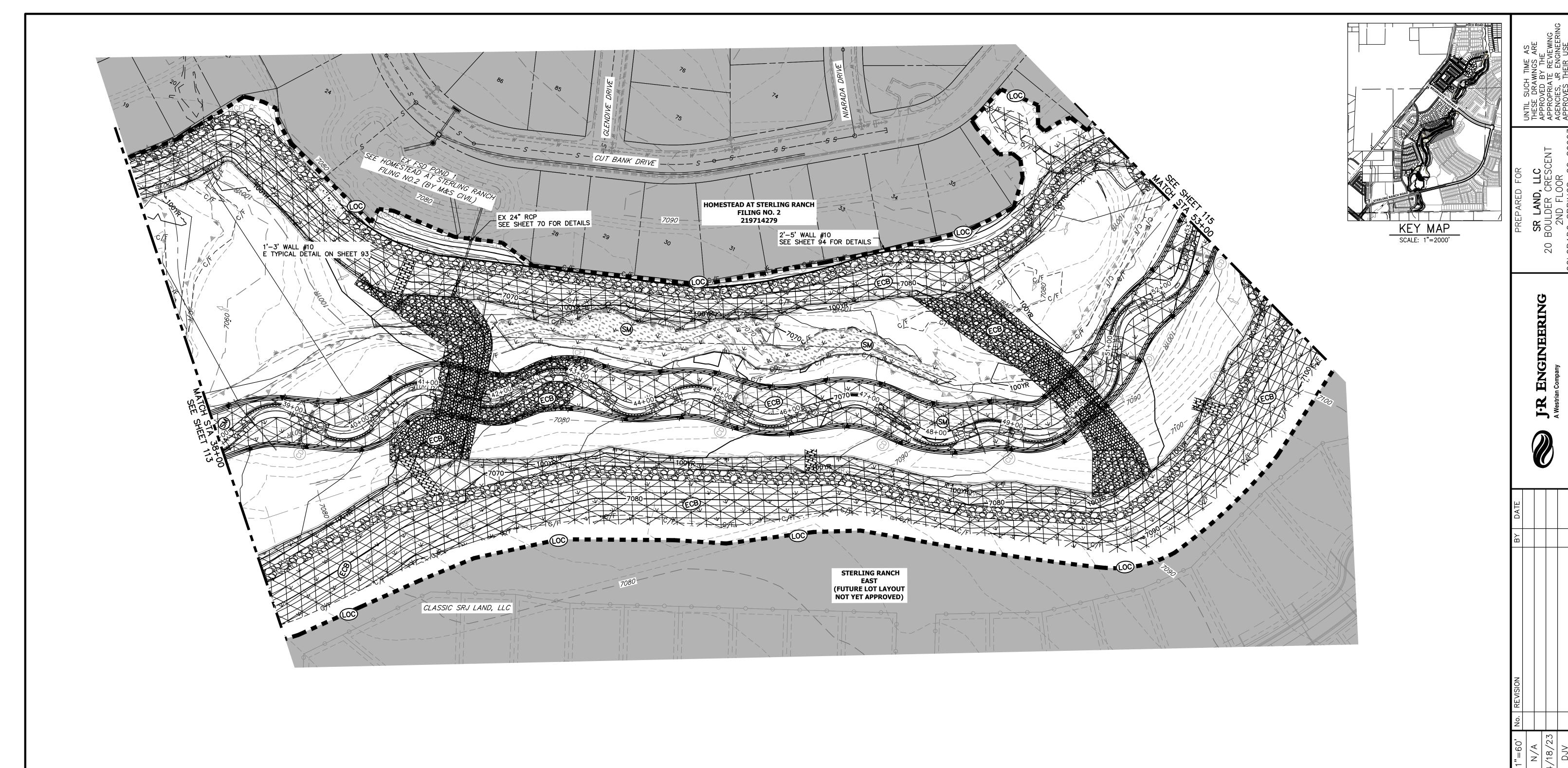
PROPOSED DRAINAGE ARROW

EXISTING CURB & GUTTER

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE





60 30 0

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PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

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SEDIMENT CONTROL LOG

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

PROPOSED RIGHT OF WAY LINE — — — — VEHICLE TRACKING CONTROL

STABILIZED STAGING AREA

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LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL ----

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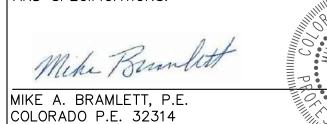
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Mike Bunlett	32314 4/18/23
MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGIN	NEERING JOYAL ENGINEERING TO SEE THE SECOND TO SECOND THE SECOND TO SECOND THE SECOND TH

SHEET 114 OF 121 JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

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EXISTING STORM SEWER

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PROPOSED STORM SEWER

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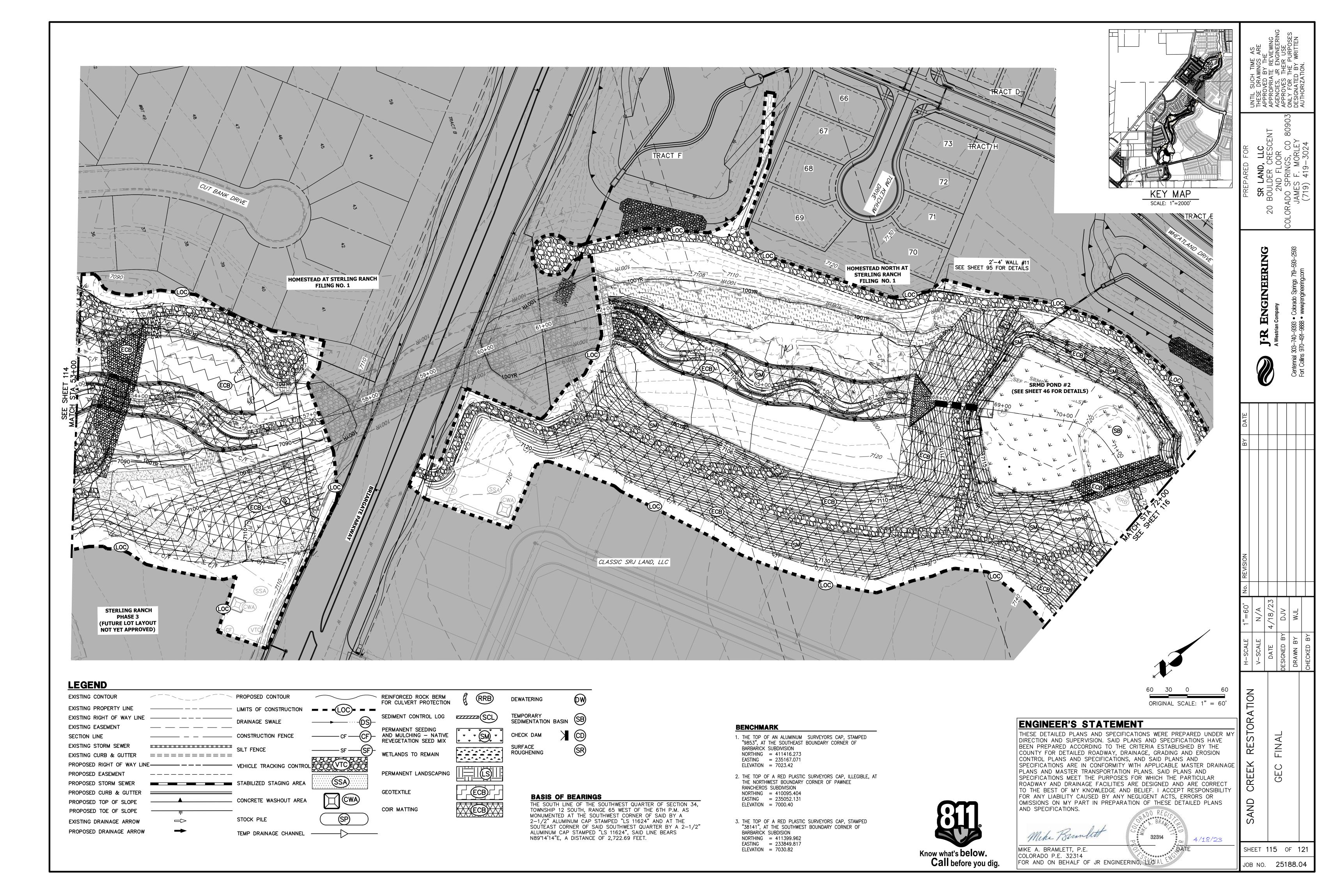
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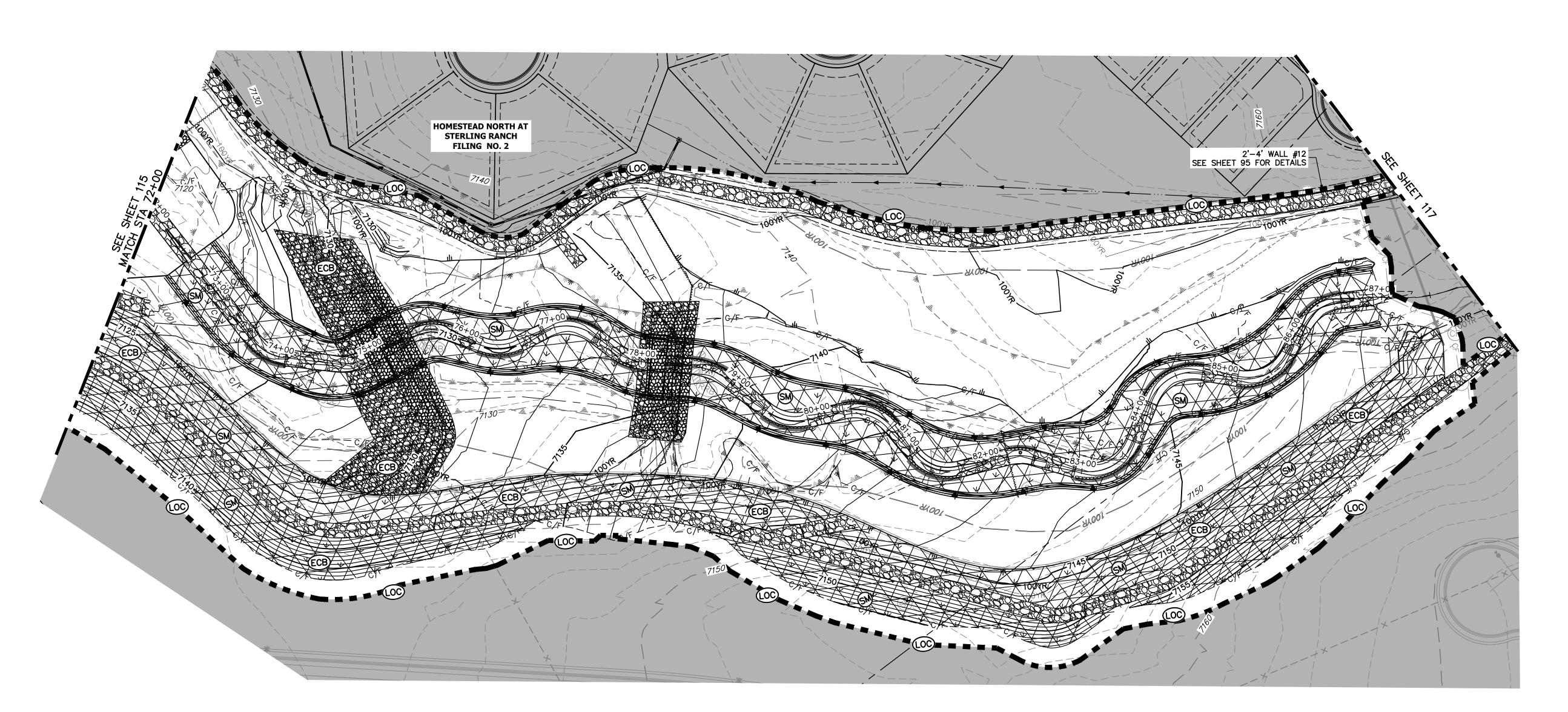
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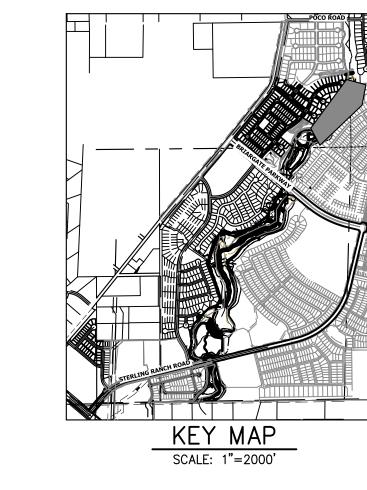
EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE



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ORIGINAL SCALE: 1" = 60"

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

48.65 AC - SEEDING & MULCHING (UPLAND)
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Know what's below.

Call before you dig.

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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

4/18/23 FOR AND ON BEHALF OF JR ENGINEERING JUNE AL

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SHEET 116 OF 121 JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

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SEDIMENTATION BASIN

CONSTRUCTION FENCE

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PROPOSED RIGHT OF WAY LINE — — — — VEHICLE TRACKING CONTROL

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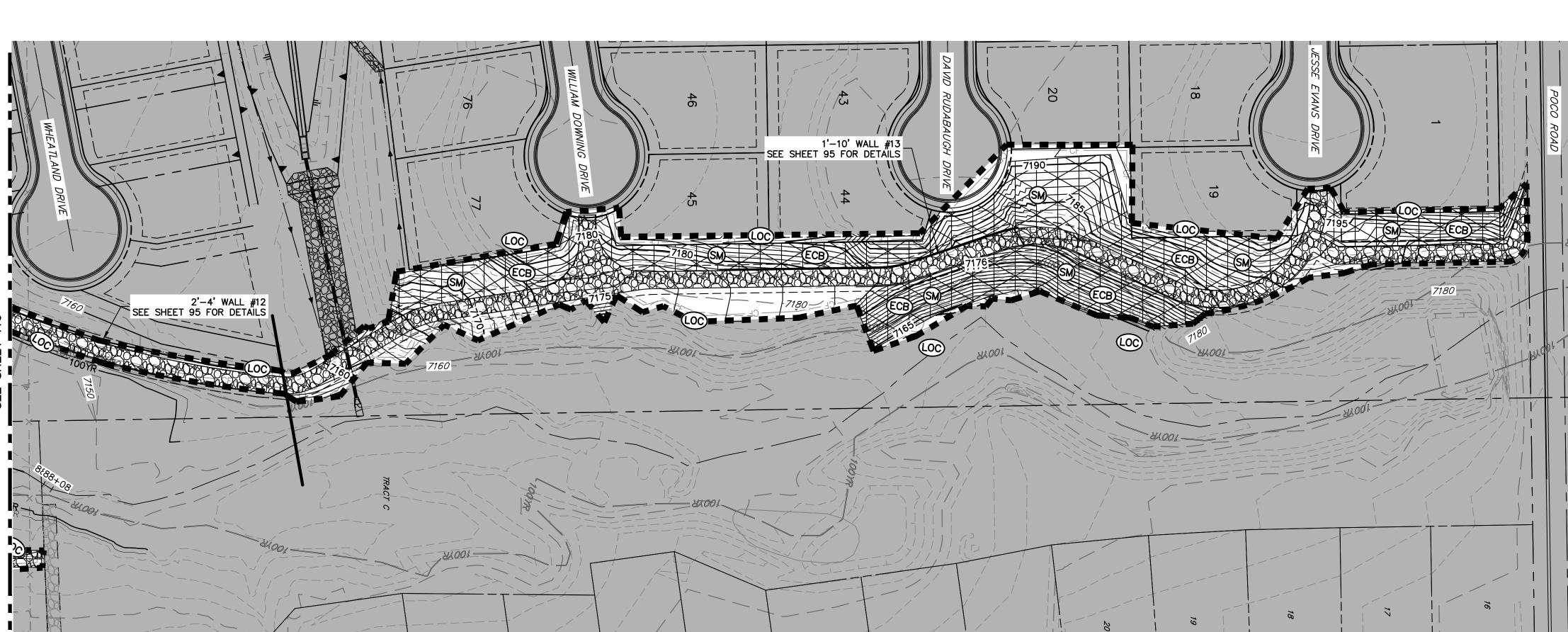
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CHECK DAM

ROUGHENING

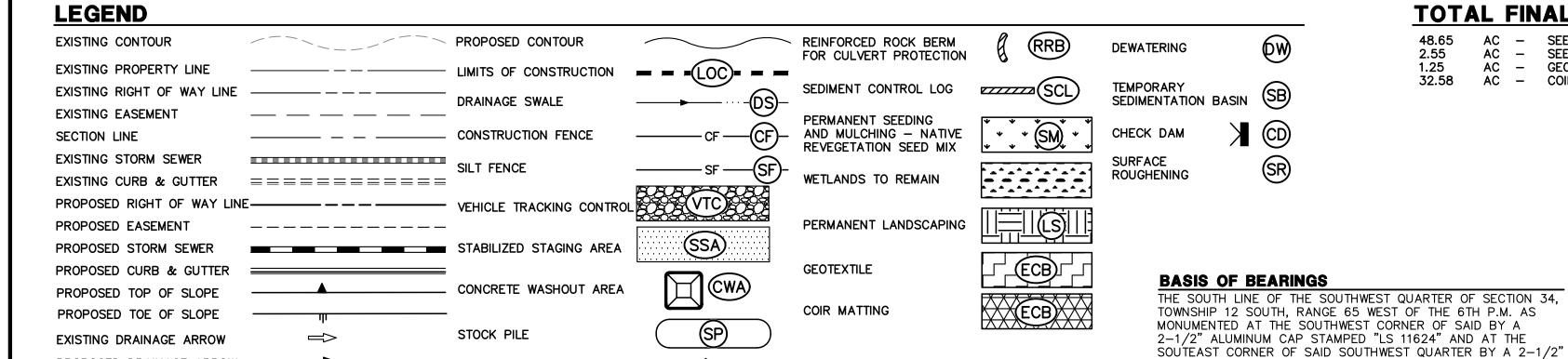
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TEMP DRAINAGE CHANNEL ----

PROPOSED DRAINAGE ARROW

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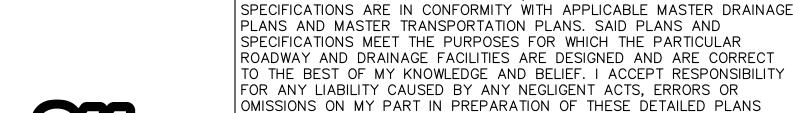
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AND SPECIFICATIONS.

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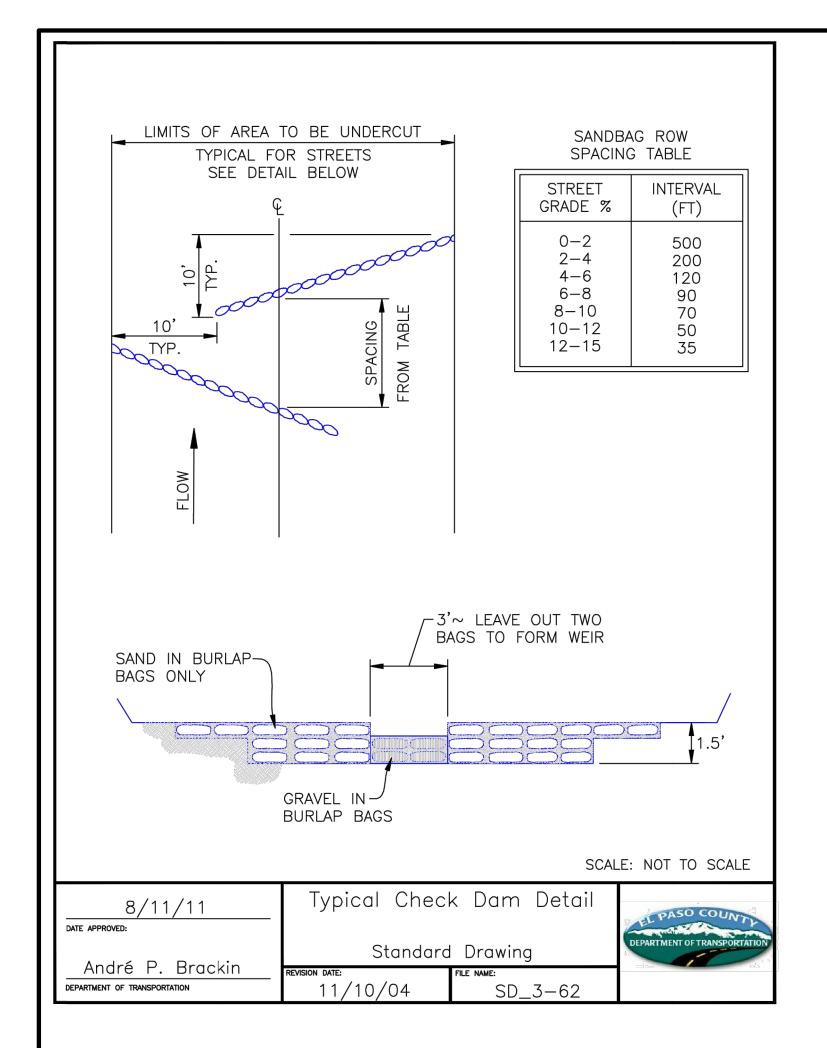
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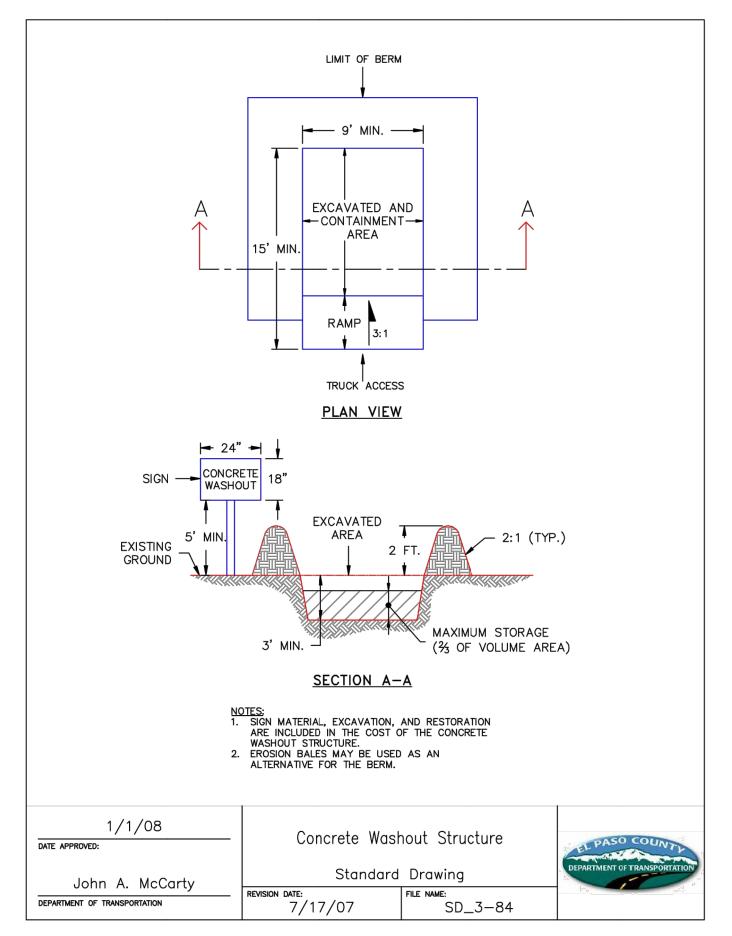
COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION

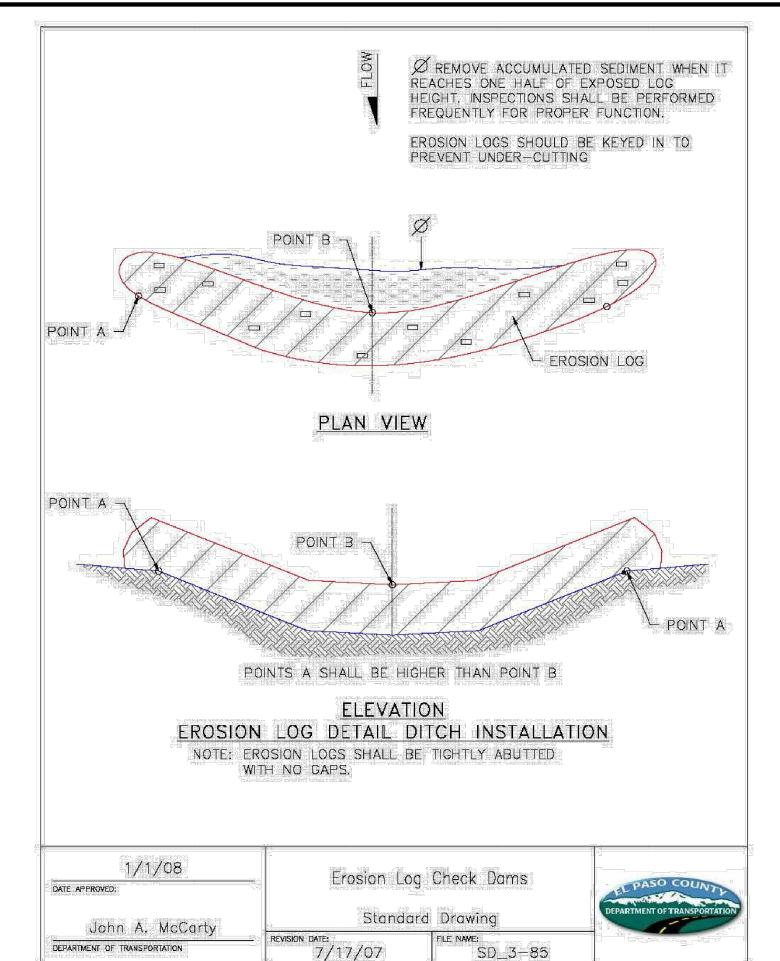
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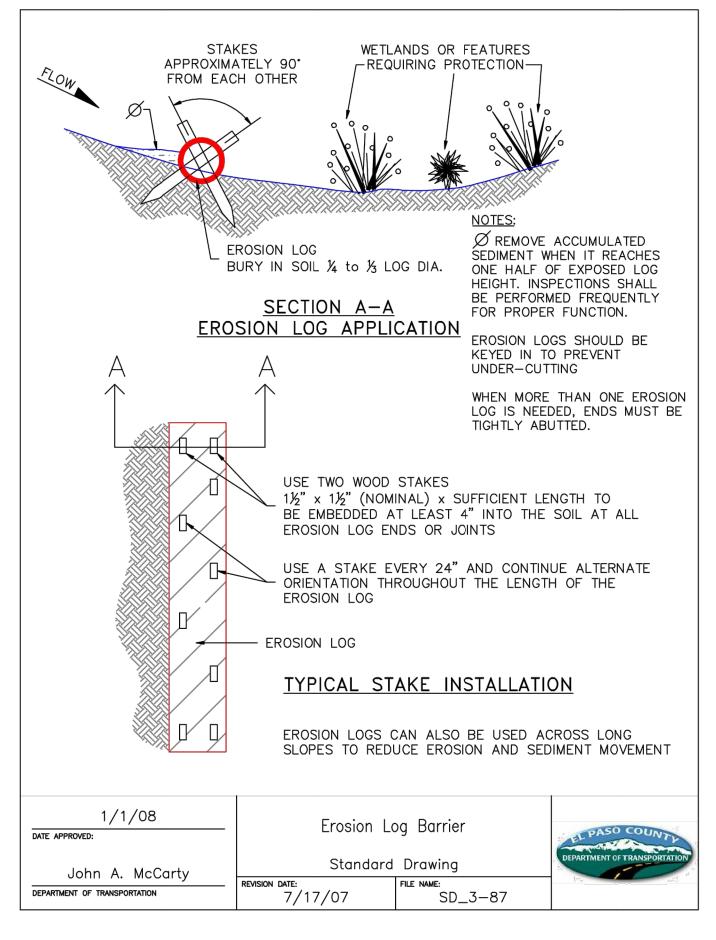
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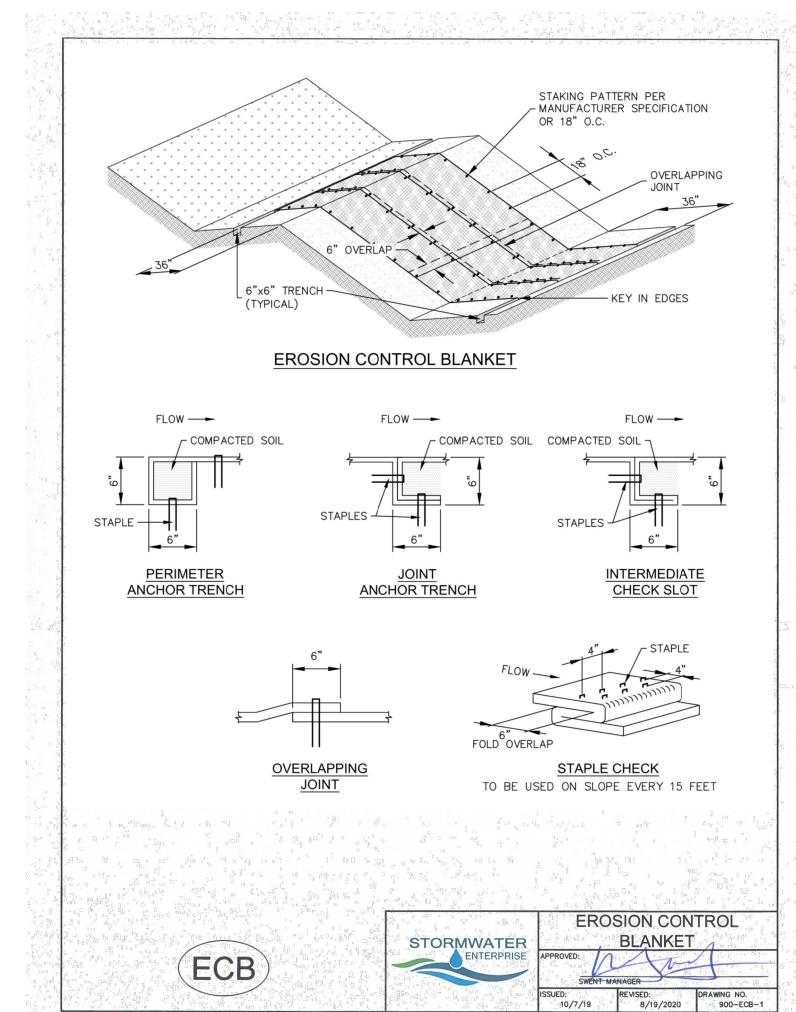
SHEET 117 OF 121

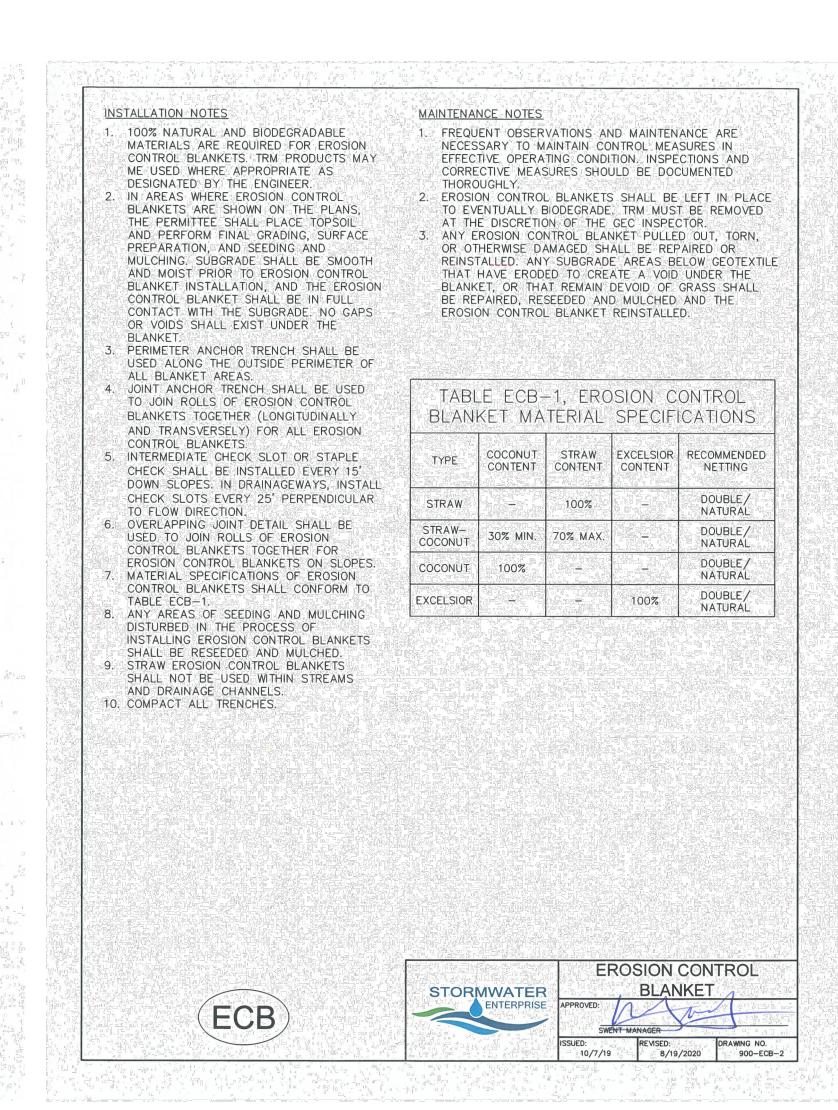














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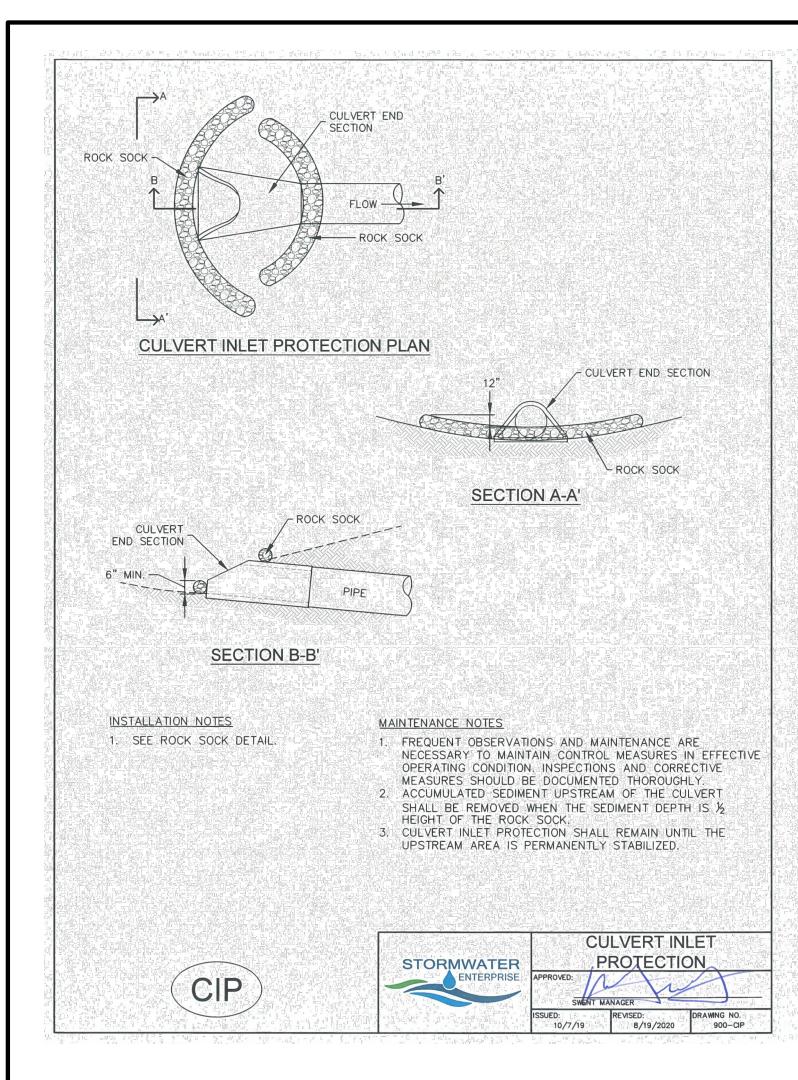
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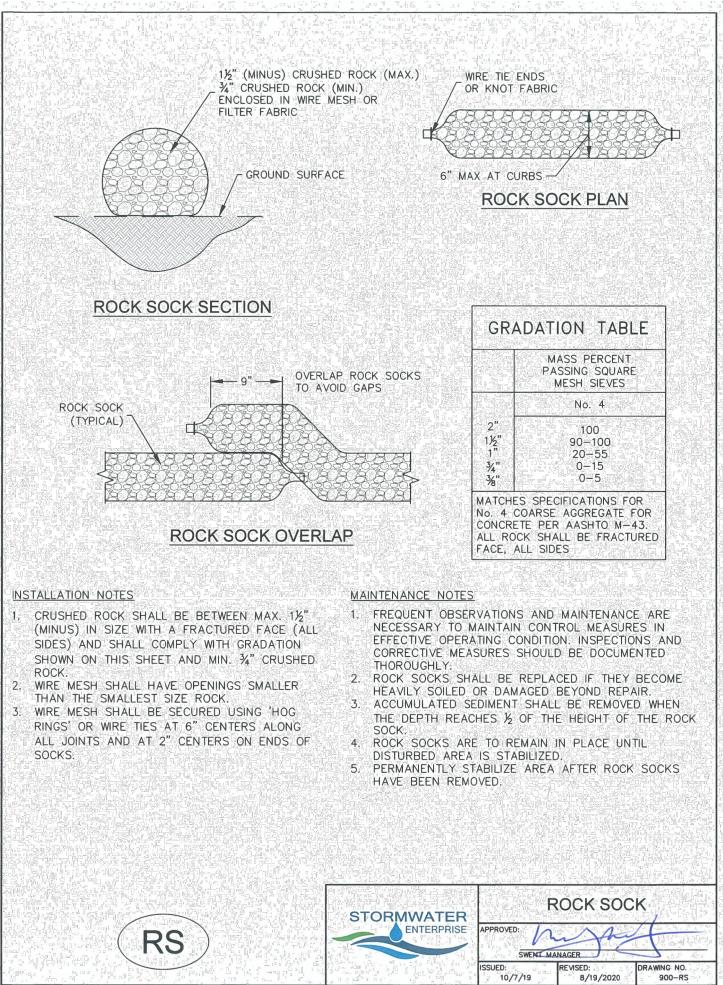
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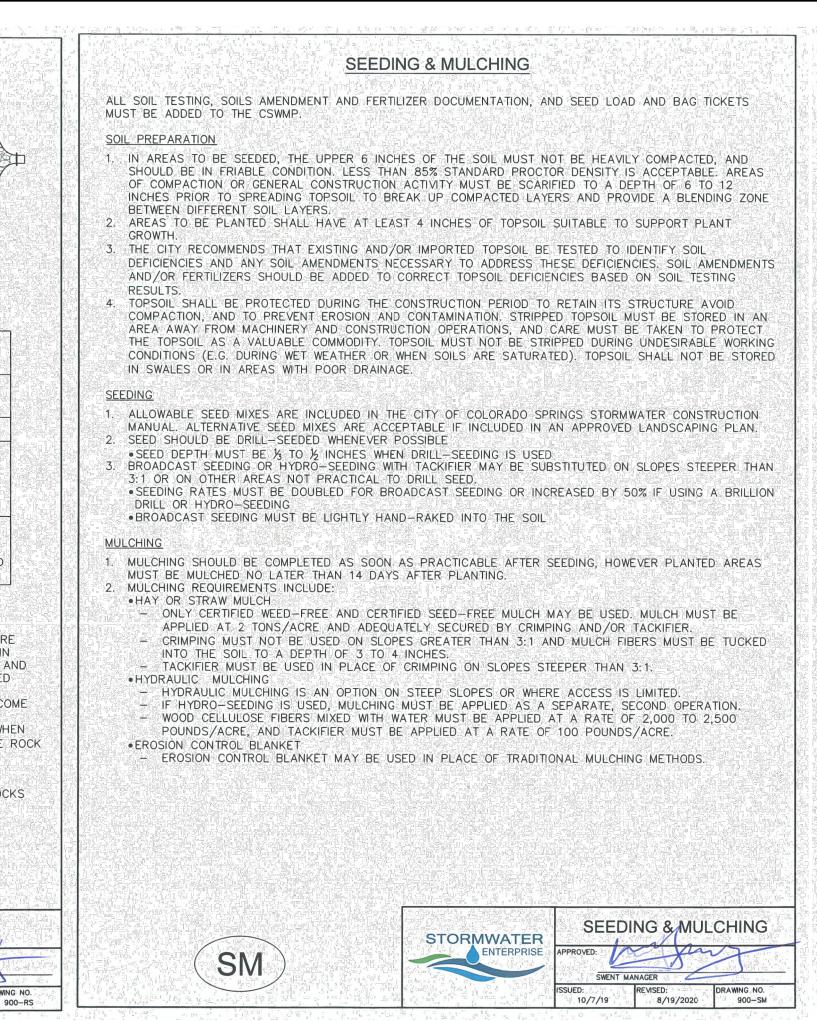
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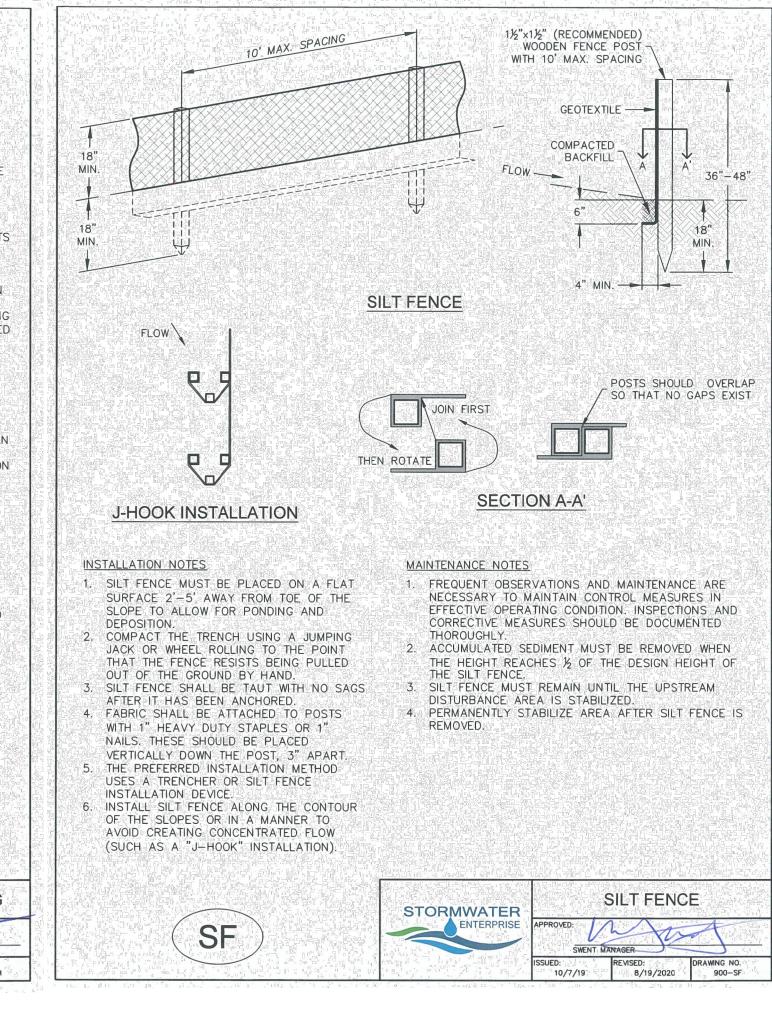
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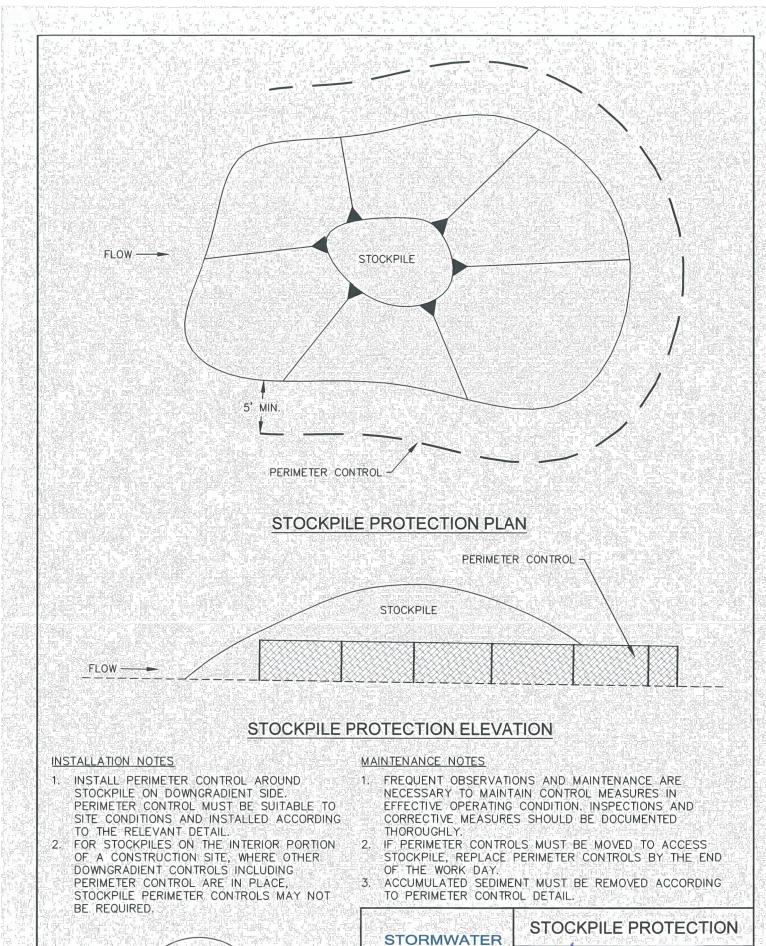
SHEET 118 OF 121 JOB NO. **25188.04**



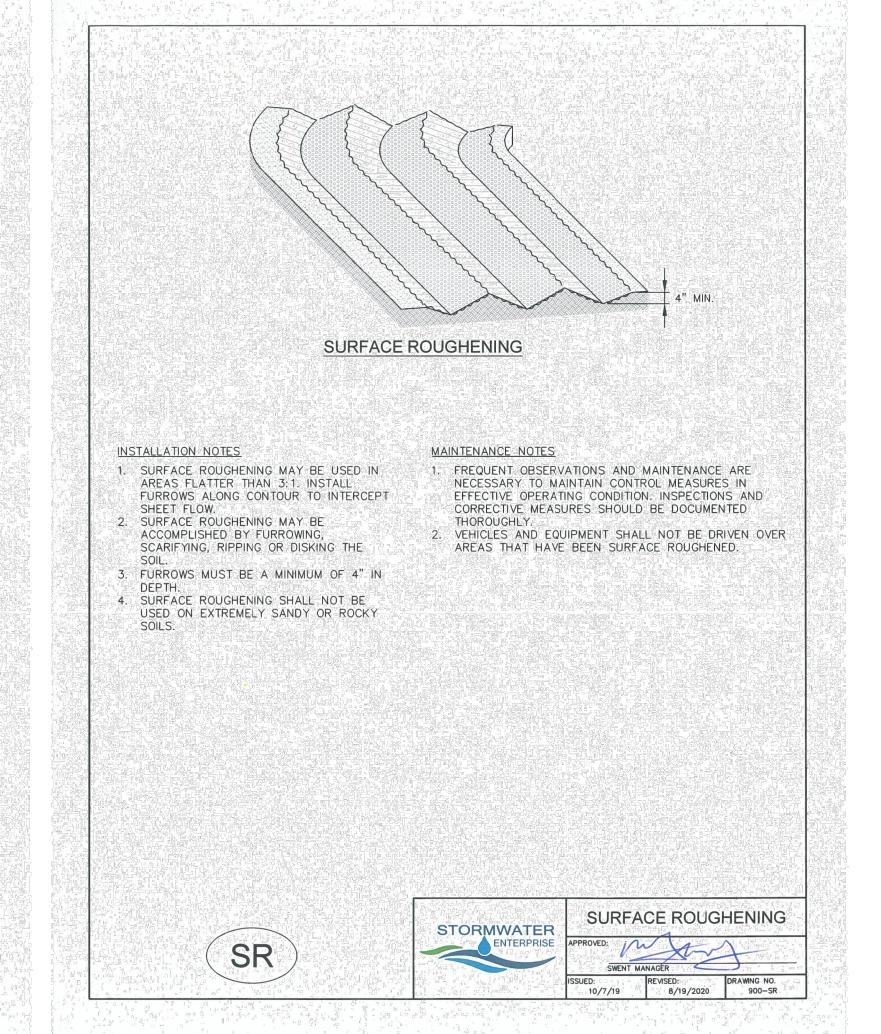








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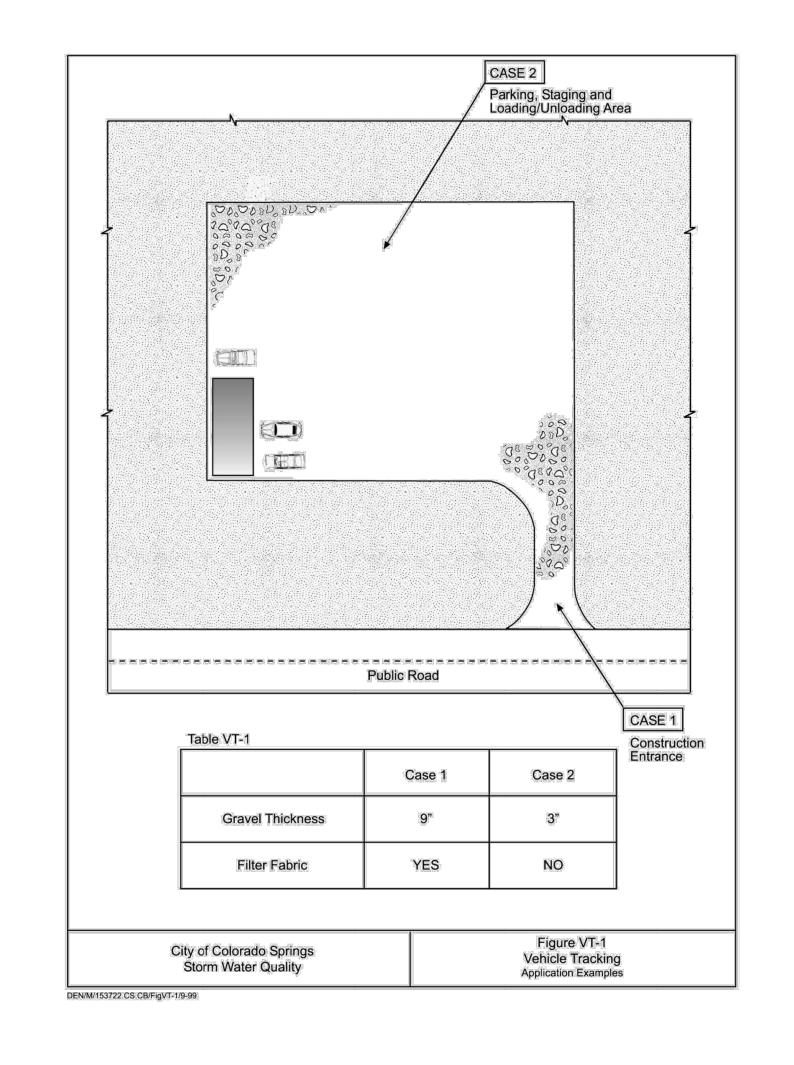
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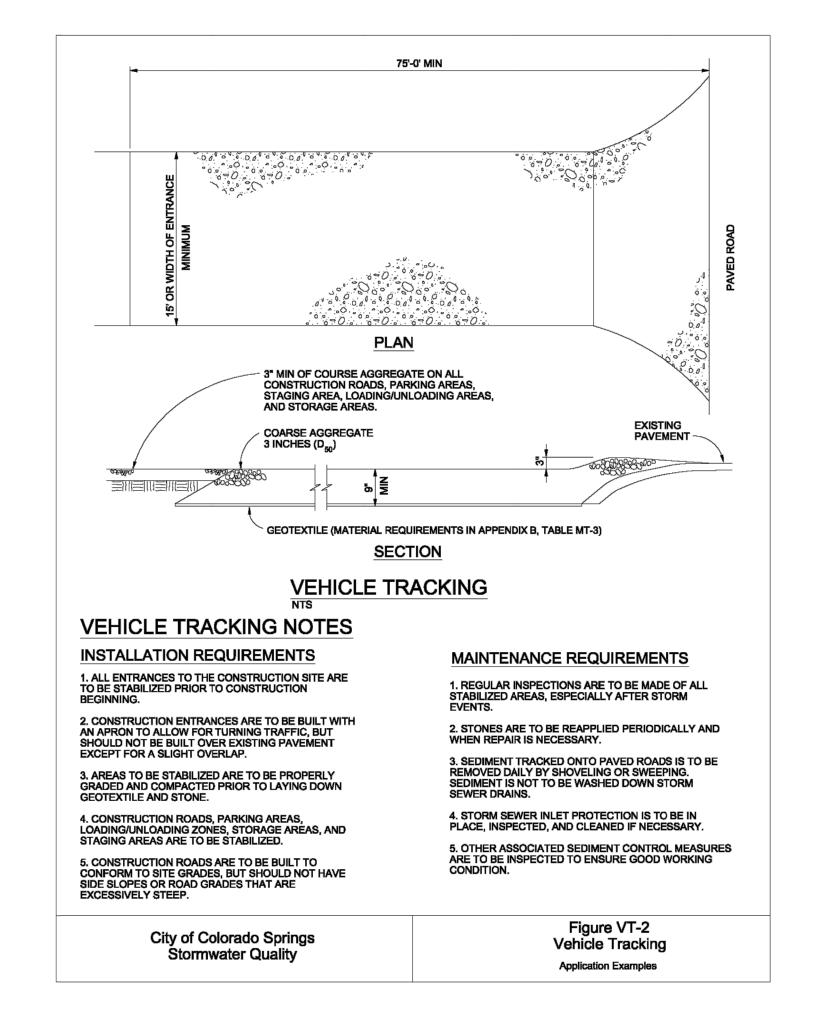
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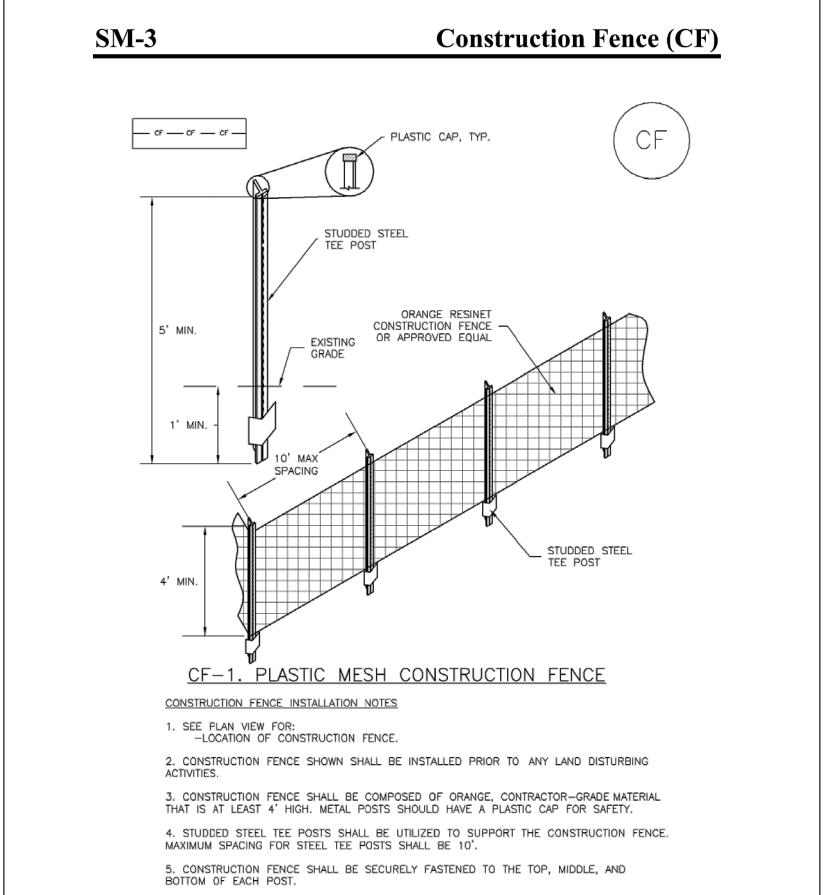
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SHEET 119 OF 121

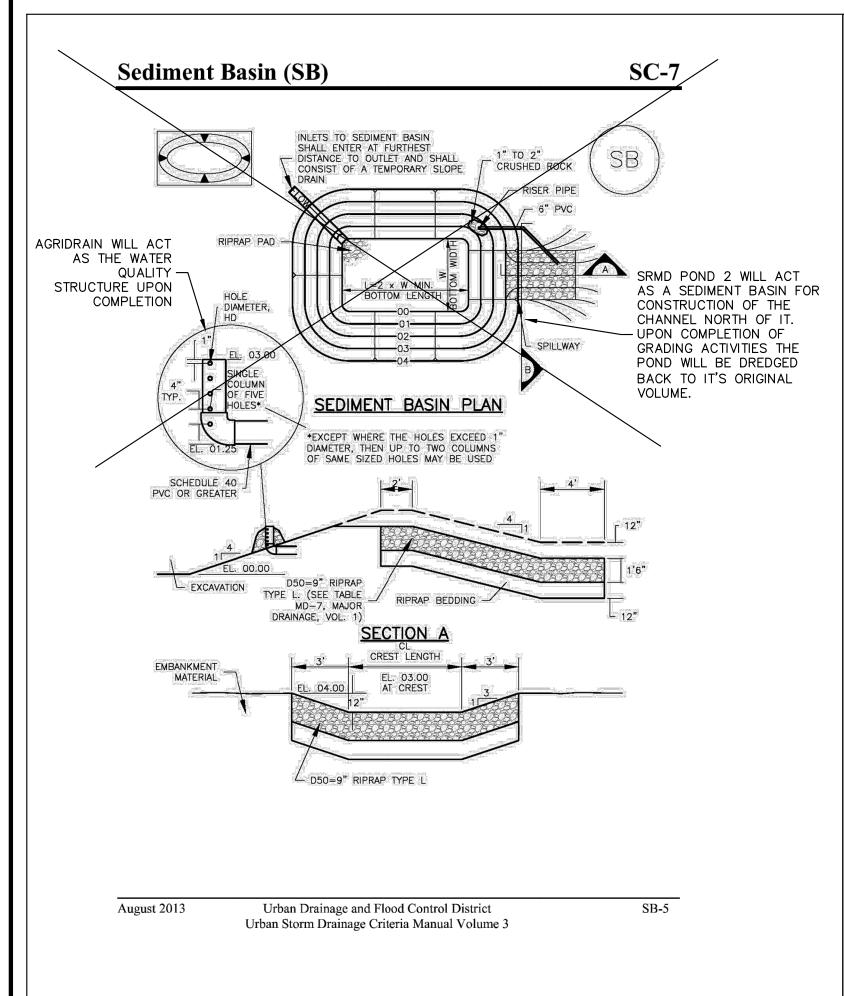






Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3



Sediment Basin (SB)

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1 2	12 ½ 21	2.3	%2 ¹¾6
3 4 5 6	28 33 ½ 38 ½	7)	%6 21/32
7 8	47 % 51 55	9 11 12	2½2 2532 2732 2732 18 1516
10 11	58 ¼ 61	15 16 18	15/6 31/32
13 14 15	67 ½ 70 ½	19	1 ½6 1 ½6

SEDIMENT BASIN INSTALLATION NOTES.

SB-6

1. SEE PLAN VIEW FOR:
-LOCATION OF SEDIMENT BASIN. TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL. AND HOLE DIAMETER, HD. =FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE

2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED:

3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL. 4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 6. PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S): THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

Urban Drainage and Flood Control District August 2013

Urban Storm Drainage Criteria Manual Volume 3

Sediment Basin (SB)

SEDIMENT BASIN MAINTENANCE NOTES

1. 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.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET



November 2010

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.

32314 MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

4/18/23

FOR AND ON BEHALF OF JR ENGINEERING ALL JOB NO. **25188.04**

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SB-7

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5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA. IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.

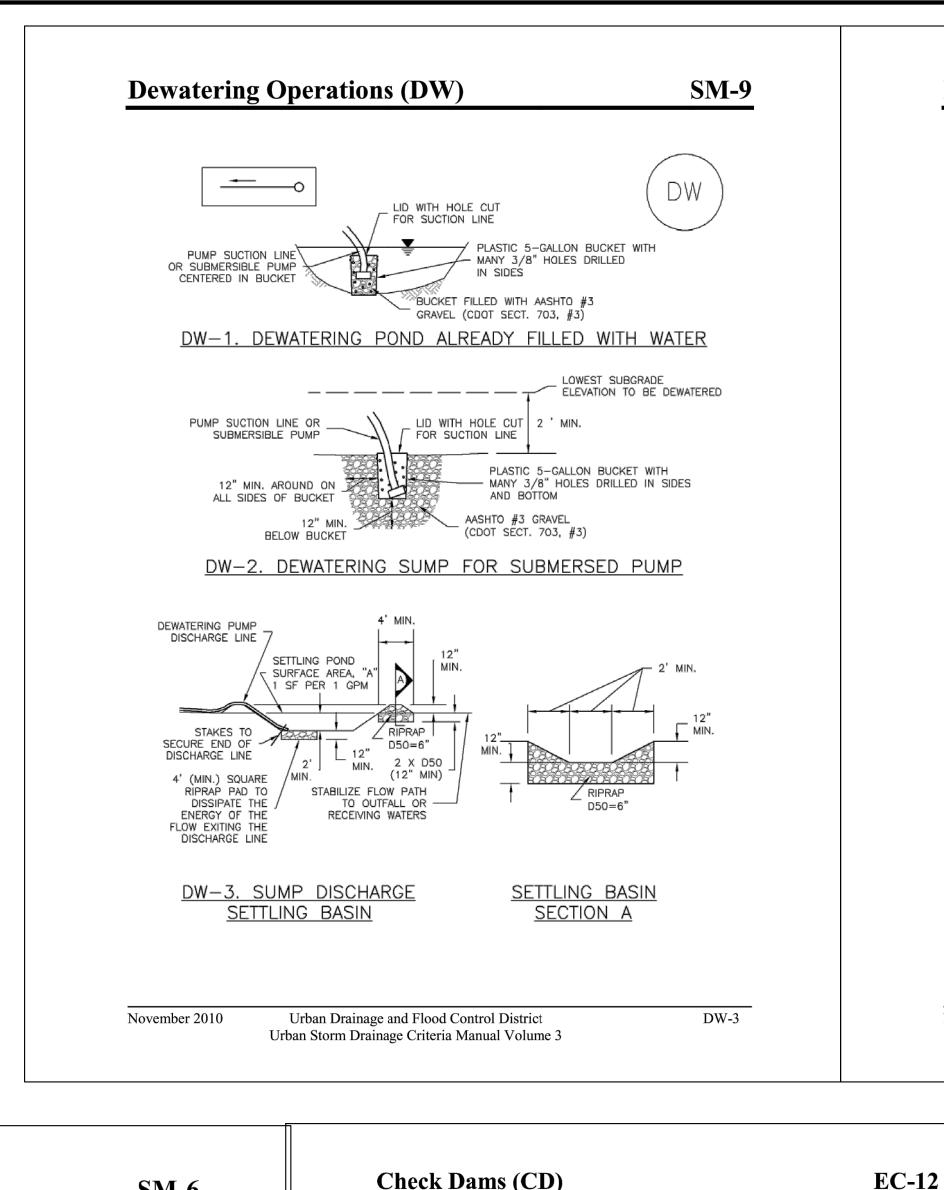
6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

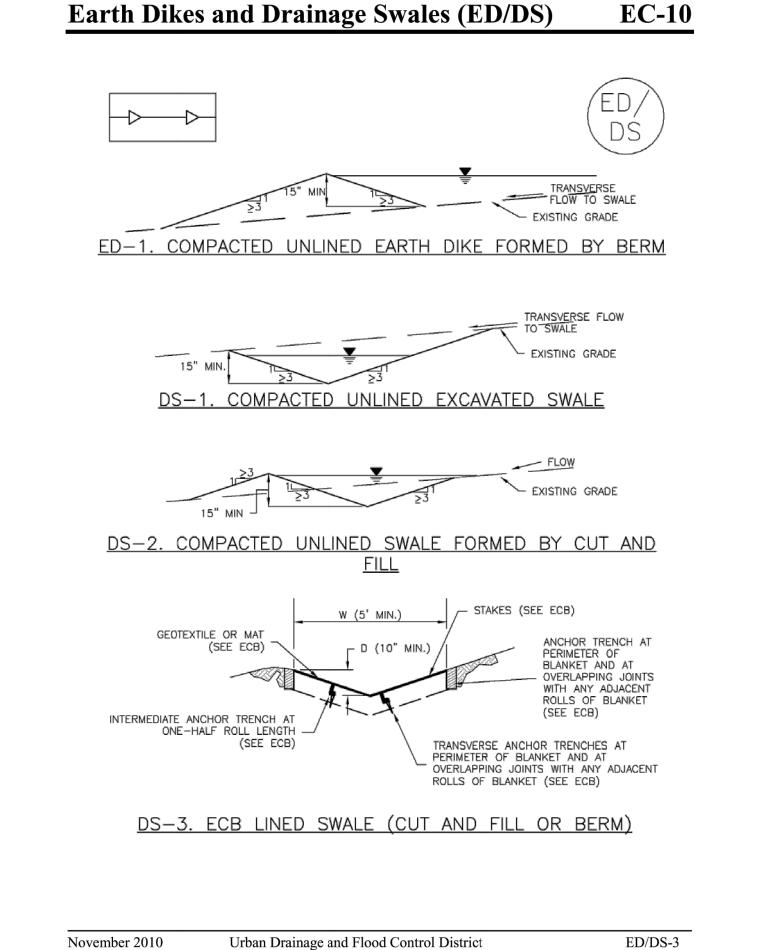
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

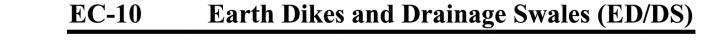
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

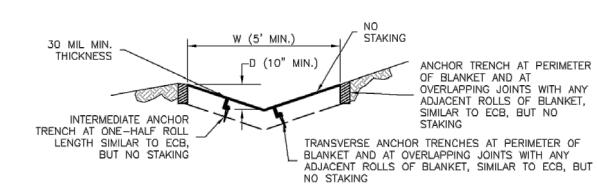
Urban Drainage and Flood Control District

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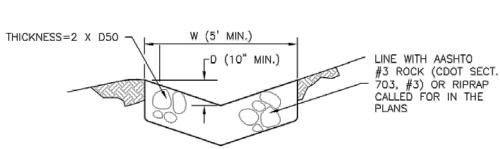








DS-4. SYNTHETIC LINED SWALE



DS-5. RIPRAP LINED SWALE

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

LAND-DISTURBING ACTIVITIES IN PROXIMITY.

- 1. SEE SITE PLAN FOR: - LOCATION OF DIVERSION SWALE
- TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED). - 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.
- 2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS. 3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO
- 4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
- 5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
- 6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS
- 7. 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)

—— SF/CF —— SF/CF — ONSITE CONSTRUCTION CONSTRUCTION VEHICLE PARKING (IF NEEDED) 3" MIN. THICKNESS GRANULAR MATERIAL STORAGE STABILIZED AREA CONSTRUCTION ENTRANCE (SEE DETAILS VTC-1 TO VTC-3) SILT FENCE OR CONSTRUCTION — SF/CF — SF/CF → FENCING AS NEEDED

SM-6

SSA-3

SSA-1. STABILIZED STAGING AREA

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

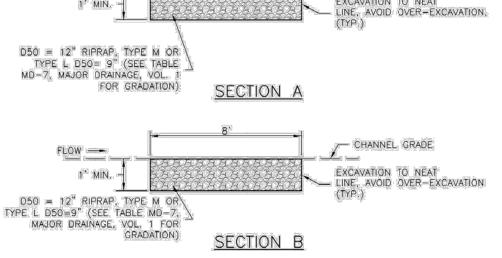
- 2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION. 3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR
- 5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK. 6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT
- FENCE AND CONSTRUCTION FENCING. STABILIZED STAGING AREA MAINTENANCE NOTES
- 1. 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.
- 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE
- 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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FLOW - MIN.

TOP OF CHECK DAM



CHANNEL GRADE PROFILE CD-1. CHECK DAM

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Check Dams (CD)

CHECK DAM INSTALLATION NOTES

1. 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).

2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES. APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12")

OR TYPE L (D50 9") 4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 11. 5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1" 6" HIGHER THAN THE CENTER: OF THE CHECK DAM.

1. 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.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.

5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 6. 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 UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

CD-4

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



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