



**CONSTRUCTION NOTES**

NO WETLANDS ARE TO BE PERMANENTLY DISTURBED PER THIS GRADING PLAN.

NO EARLY GRADING IS TO OCCUR WITHIN THE 100 YEAR FLOODPLAIN.

ALL TEMPORARY RIPRAP SHOWN ON THE PLANS SHALL BE TYPE "M". RIPRAP SHALL BE PLACED IN THE LOCATIONS INDICATED BY THE PLAN OR IN AREAS AS THE CONTRACTOR SEES FIT TO CONTROL EROSION. ALL RIPRAP SHALL BE PLACED AT A MINIMUM THICKNESS OF 1.5' DEEP.

**ADDITIONAL NOTES**

STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.

THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.

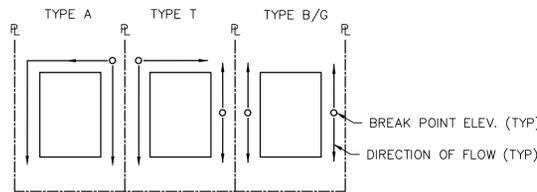
EXISTING VEGETATION IS NATIVE MEADOW GRASS (APPROXIMATELY 75% COVERAGE).

NO ASPHALT OR CONCRETE BATCH PLANTS WILL BE UTILIZED ONSITE.

AREA TO BE CONSTRUCTED IN SF-20-015

T.O.W - TOP OF WALL

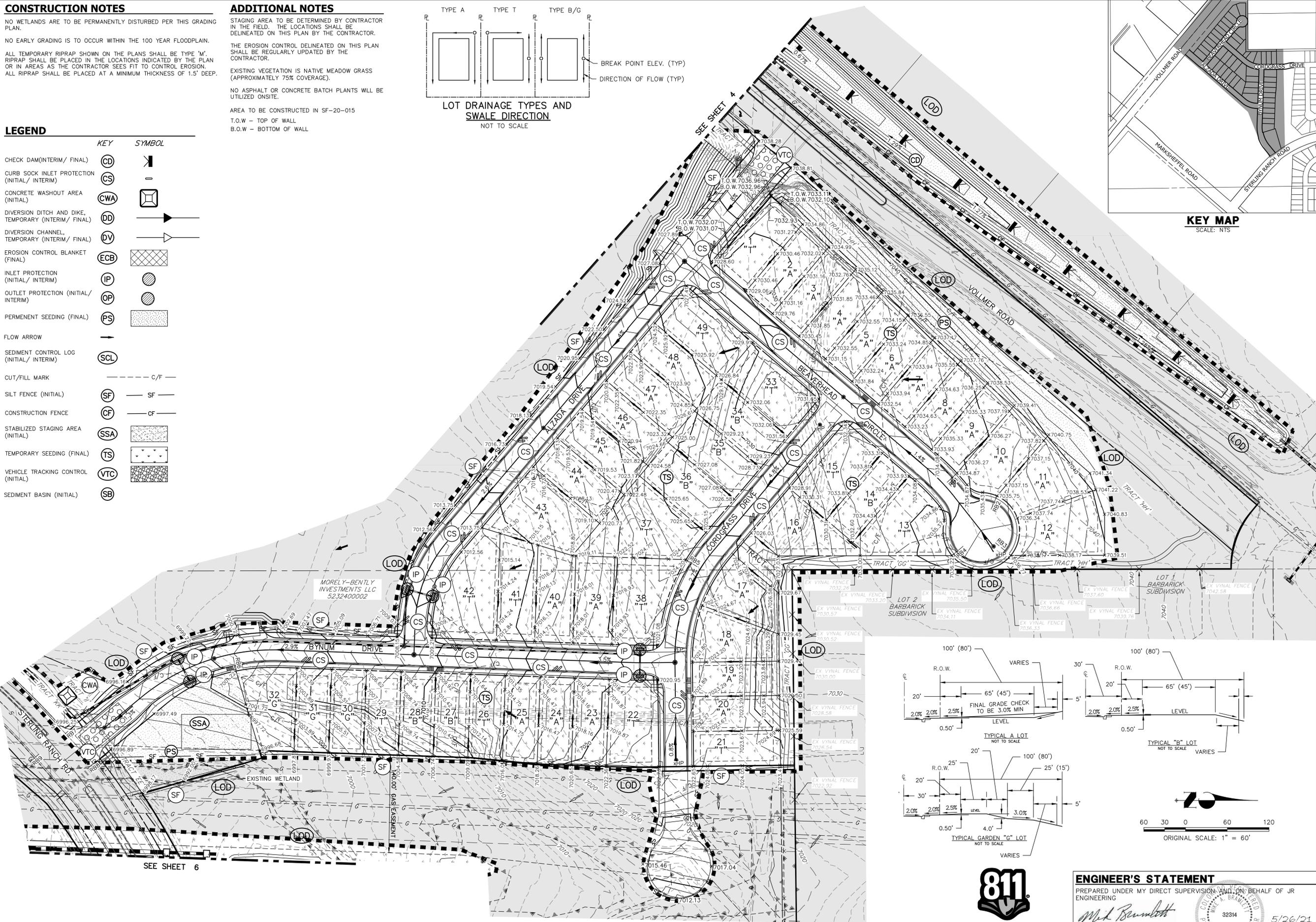
B.O.W - BOTTOM OF WALL



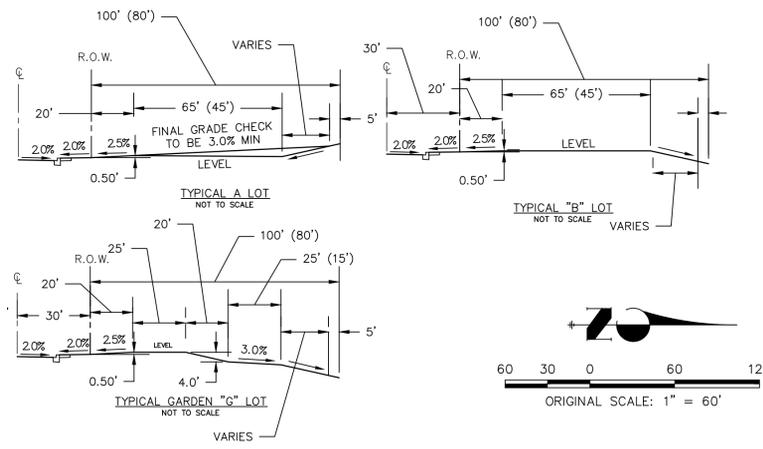
**LOT DRAINAGE TYPES AND SWALE DIRECTION**  
NOT TO SCALE

**LEGEND**

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS
CONCRETE WASHOUT AREA (INITIAL)	CWA
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	DV
EROSION CONTROL BLANKET (FINAL)	ECB
INLET PROTECTION (INITIAL/ INTERIM)	IP
OUTLET PROTECTION (INITIAL/ INTERIM)	OP
PERMANENT SEEDING (FINAL)	PS
FLOW ARROW	→
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	SCL
CUT/FILL MARK	--- C/F ---
SILT FENCE (INITIAL)	SF
CONSTRUCTION FENCE	CF
STABILIZED STAGING AREA (INITIAL)	SSA
TEMPORARY SEEDING (FINAL)	TS
VEHICLE TRACKING CONTROL (INITIAL)	VTC
SEDIMENT BASIN (INITIAL)	SB

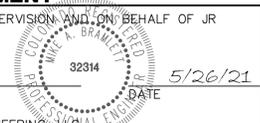


**KEY MAP**  
SCALE: NTS

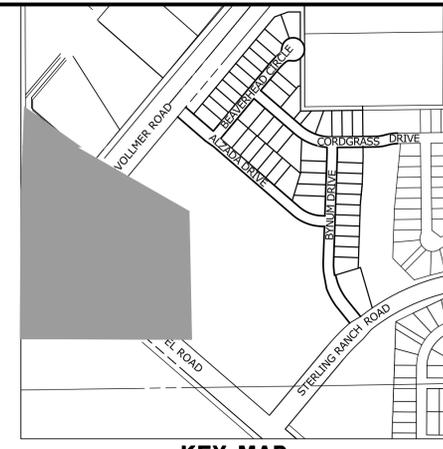


**ENGINEER'S STATEMENT**

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER



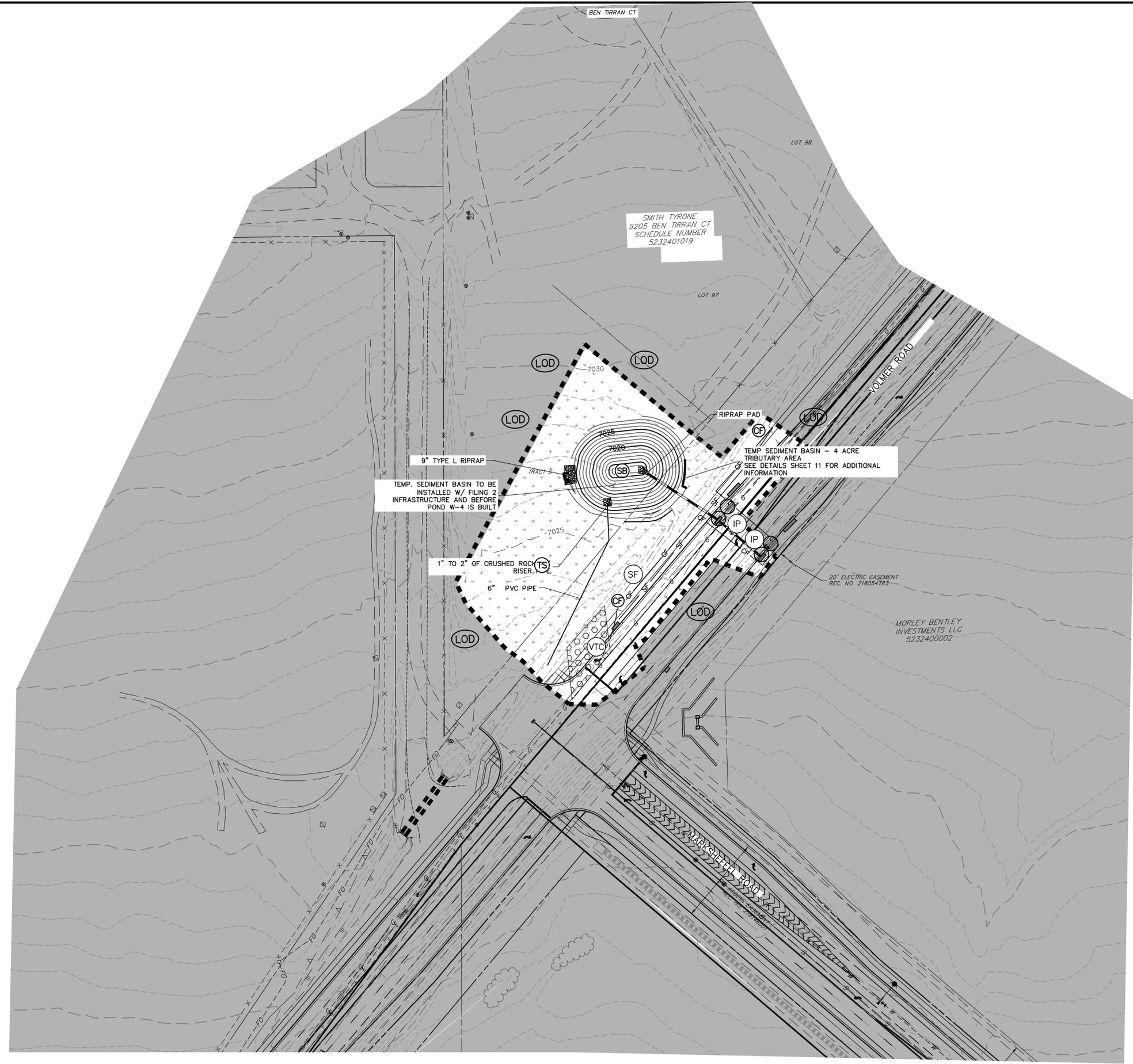
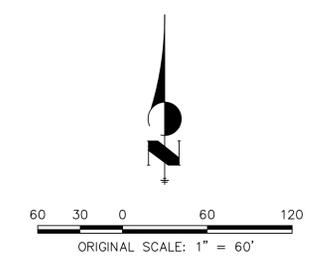
PREPARED FOR	SR LAND, LLC 20 BOULDER CRESCENT SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742
APPROVED BY	APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE DESIGNATED BY WRITTEN AUTHORIZATION.
BY	DATE
No.	REVISION
H-SCALE	1"=60'
V-SCALE	N/A
DATE	04/15/21
DESIGNED BY	XXX
DRAWN BY	XXX
CHECKED BY	
<b>STERLING RANCH FILING NO.2</b>	
<b>FINAL GRADING &amp; EROSION CONTROL PLAN</b>	
SHEET	2 OF 13
JOB NO.	25188.01



**KEY MAP**  
SCALE: NTS

**LEGEND**

	KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD	
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS	
CONCRETE WASHOUT AREA (INITIAL)	CWA	
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD	
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	DV	
EROSION CONTROL BLANKET (FINAL)	ECB	
INLET PROTECTION (INITIAL/ INTERIM)	IP	
OUTLET PROTECTION (INITIAL/ INTERIM)	OP	
PERMANENT SEEDING (FINAL)	PS	
FLOW ARROW		
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	SCL	
CUT/FILL MARK		
SILT FENCE (INITIAL)	SF	
CONSTRUCTION FENCE	CF	
STABILIZED STAGING AREA (INITIAL)	SSA	
TEMPORARY SEEDING (FINAL)	TS	
VEHICLE TRACKING CONTROL (INITIAL)	VTC	
SEDIMENT BASIN (INITIAL)	SB	



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

PREPARED FOR  
**SR LAND, LLC**  
20 BOULDER CRESCENT  
SUITE 201  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 471-1742

**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9383 • Colorado Springs 719-583-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1" = 60'
V-SCALE	N/A
DATE	04/15/21
DESIGNED BY	ARJ
DRAWN BY	ARJ
CHECKED BY	

STERLING RANCH FILING NO.2  
FINAL GRADING & EROSION CONTROL PLAN  
INTERIM CONDITION BEFORE W-4

**ENGINEER'S STATEMENT**  
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
*Mike A. Bramlett*  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER  
DATE 5/26/21

**CONSTRUCTION NOTES**

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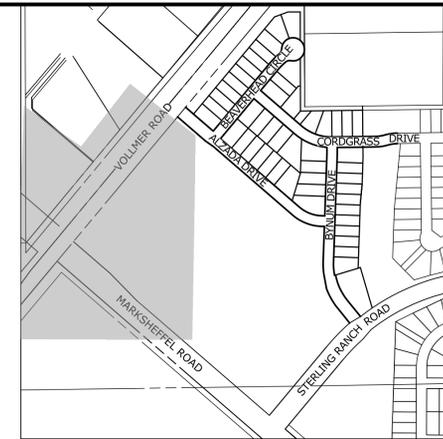
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AREA TO BE CONSTRUCTED IN SF-20-015

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
1B	GR - TOE	N: 411222.85 E: 232589.83	7016.00
2B	GR - TOE	N: 411229.61 E: 232599.85	7016.01
3B	GR - TOE	N: 411144.36 E: 232711.65	7016.00
4B	GR - TOE	N: 411045.38 E: 232728.99	7015.95
5B	GR - TOE	N: 411014.34 E: 232713.80	7015.75
6B	GR - TOE	N: 411002.65 E: 232717.14	7016.00
7B	GR - TOE	N: 410976.83 E: 232686.61	7016.00
8B	GR - TOE	N: 410973.19 E: 232674.09	7014.00
9B	GR - TOE	N: 410951.12 E: 232657.45	7014.00
10B	GR - TOE	N: 410947.77 E: 232636.18	7014.00
11B	GR - TOE	N: 410999.60 E: 232570.99	7016.00
13B	GR - TOP	N: 411233.62 E: 232534.58	7030.02
14B	GR - TOP	N: 411287.64 E: 232627.60	7032.00
15B	GR - TOP	N: 411134.37 E: 232807.85	7026.81
16B	GR - TOP	N: 411084.69 E: 232820.22	7024.17
17B	GR - TOP	N: 411046.35 E: 232773.06	7021.60
18B	GR - TOP	N: 411031.23 E: 232777.38	7024.00
19B	GR - TOP	N: 410905.26 E: 232689.59	7024.00
20B	GR - TOP	N: 410904.12 E: 232630.92	7022.00
21B	GR - TOP	N: 410914.97 E: 232606.83	7022.00
22B	GR - TOP	N: 410989.13 E: 232529.96	7026.00



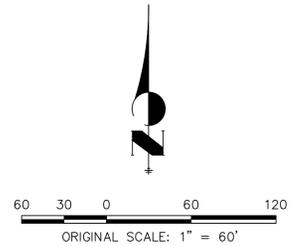
Know what's below.  
Call before you dig.



**KEY MAP**  
SCALE: NTS

**LEGEND**

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS
CONCRETE WASHOUT AREA (INITIAL)	CWA
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	DV
EROSION CONTROL BLANKET (FINAL)	ECB
INLET PROTECTION (INITIAL/ INTERIM)	IP
OUTLET PROTECTION (INITIAL/ INTERIM)	OP
PERMANENT SEEDING (FINAL)	PS
FLOW ARROW	→
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	SCL
CUT/FILL MARK	C/F
SILT FENCE (INITIAL)	SF
CONSTRUCTION FENCE	CF
STABILIZED STAGING AREA (INITIAL)	SSA
TEMPORARY SEEDING (FINAL)	TS
VEHICLE TRACKING CONTROL (INITIAL)	VTC
SEDIMENT BASIN (INITIAL)	SB



**ENGINEER'S STATEMENT**

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER  
 DATE: 5/26/21

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.  
 PREPARED FOR  
**SR LAND, LLC**  
 20 BOULDER CRESCENT  
 SUITE 201  
 COLORADO SPRINGS, CO 80903  
 JAMES F. MORLEY  
 (719) 471-1742

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

No.	REVISION	BY	DATE

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=60'	N/A	04/15/21	XXX	XXX	

STERLING RANCH FILING NO.2  
**FINAL GRADING & EROSION CONTROL PLAN**  
 SHEET 4 OF 13  
 JOB NO. 25188.01

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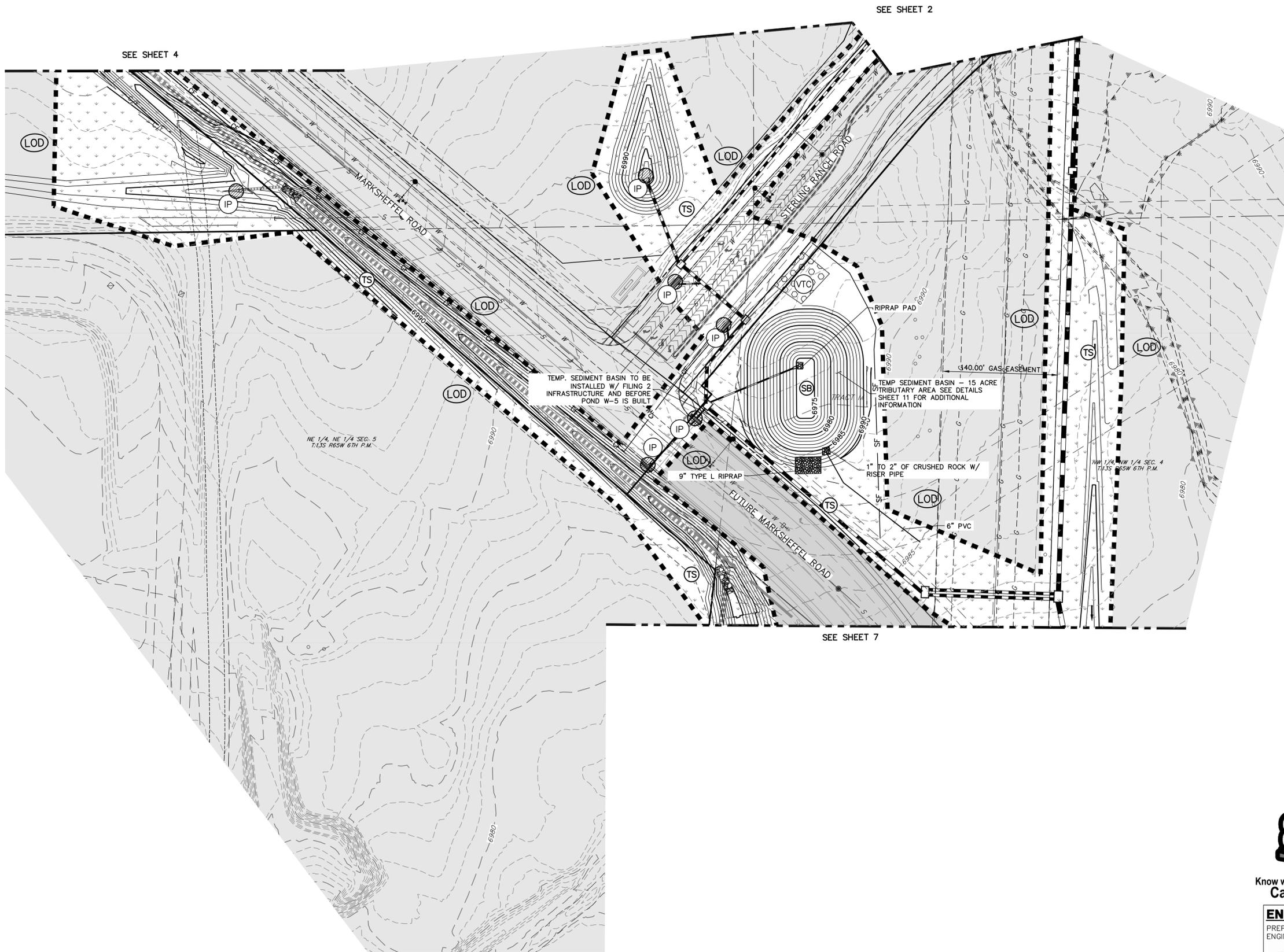
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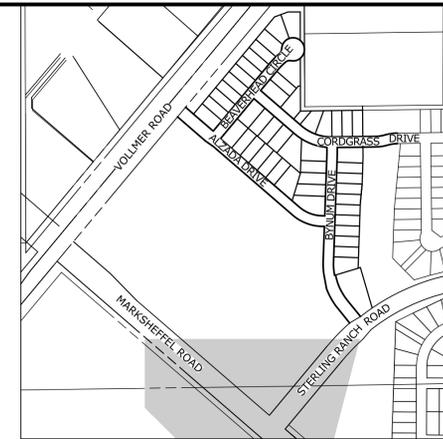
AREA TO BE CONSTRUCTED IN SF-20-015



SEE SHEET 4

SEE SHEET 2

SEE SHEET 7



**KEY MAP**  
SCALE: NTS

**LEGEND**

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS
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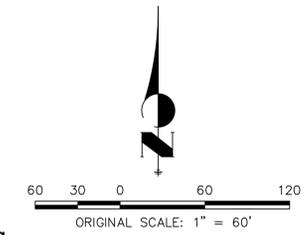
PREPARED FOR  
**SR LAND, LLC**  
20 BOULDER CRESCENT  
SUITE 201  
COLORADO SPRINGS, CO 80903  
JAMES F. MORLEY  
(719) 471-1742

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No.	REVISION	BY	DATE

H-SCALE	1" = 60'
V-SCALE	N/A
DATE	04/15/21
DESIGNED BY	XXX
DRAWN BY	XXX
CHECKED BY	



**ENGINEER'S STATEMENT**  
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
*Mike A. Bramlett*  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF JR ENGINEERING, INC.  
DATE: 5/26/21

STERLING RANCH FILING NO.2  
FINAL GRADING & EROSION CONTROL PLAN  
SHEET 5 OF 13  
JOB NO. 25188.01

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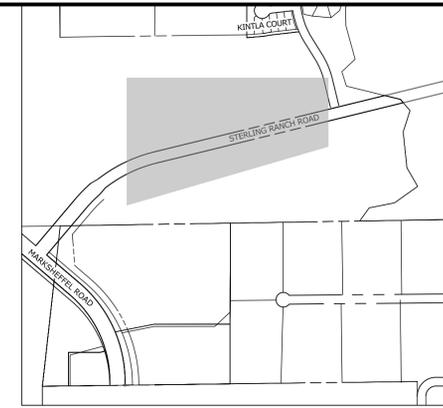
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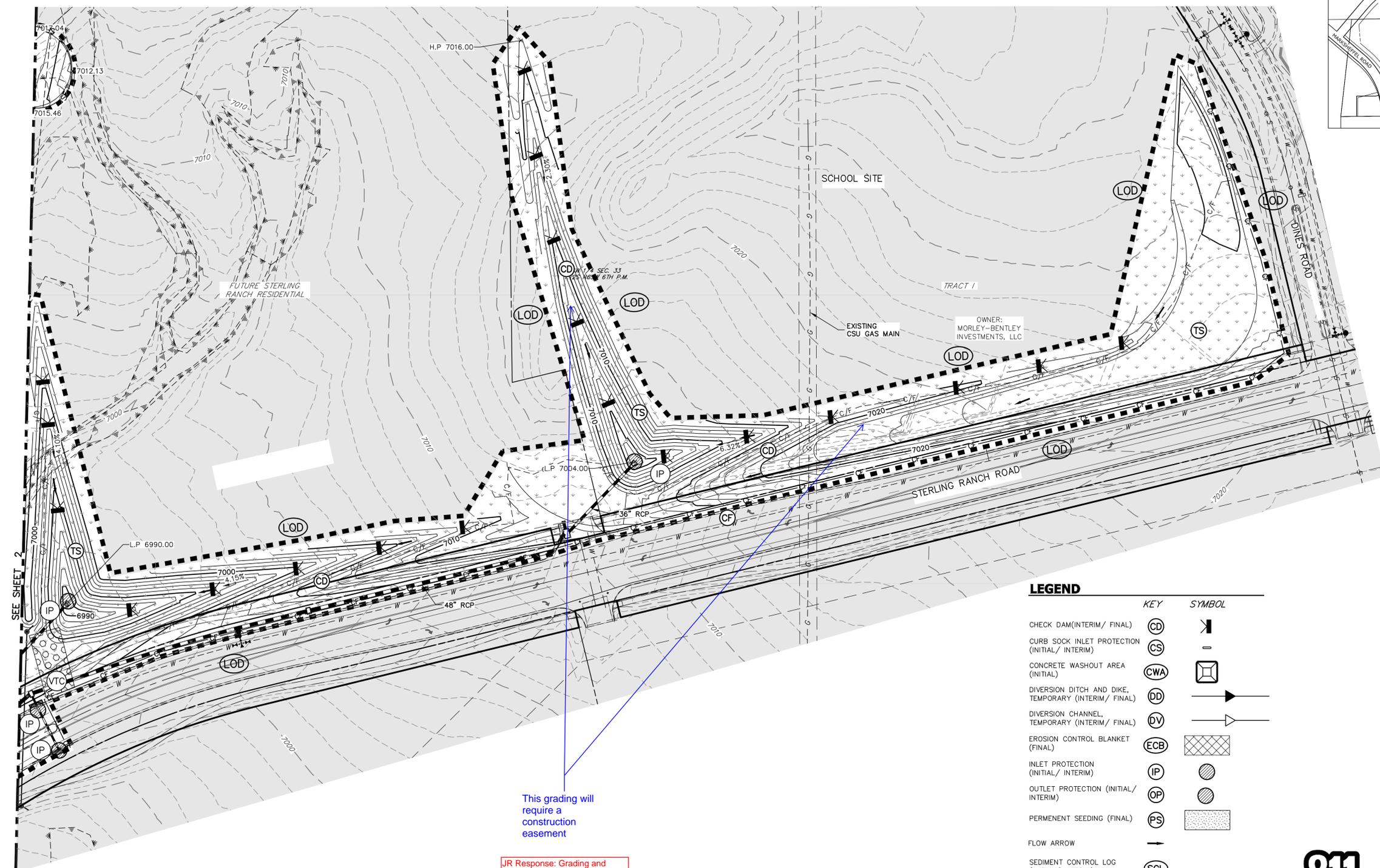
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AREA TO BE CONSTRUCTED IN SF-20-015



**KEY MAP**  
SCALE: NTS



This grading will require a construction easement

JR Response: Grading and drainage revised to remove grading on school site.

**LEGEND**

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS
CONCRETE WASHOUT AREA (INITIAL)	CWA
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	DV
EROSION CONTROL BLANKET (FINAL)	ECB
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FLOW ARROW	—>
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	SCL
CUT/FILL MARK	C/F
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STABILIZED STAGING AREA (INITIAL)	SSA
TEMPORARY SEEDING (FINAL)	TS
VEHICLE TRACKING CONTROL (INITIAL)	VTC
SEDIMENT BASIN (INITIAL)	SB



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 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER  
 DATE 5/26/21

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	No. REVISION
H-SCALE 1"=60' V-SCALE N/A DATE 04/15/21 DESIGNED BY XXX DRAWN BY XXX CHECKED BY	STERLING RANCH FILING NO.2 FINAL GRADING & EROSION CONTROL PLAN
SHEET 6 OF 13 JOB NO. 25188.01	ENGINEER'S STATEMENT

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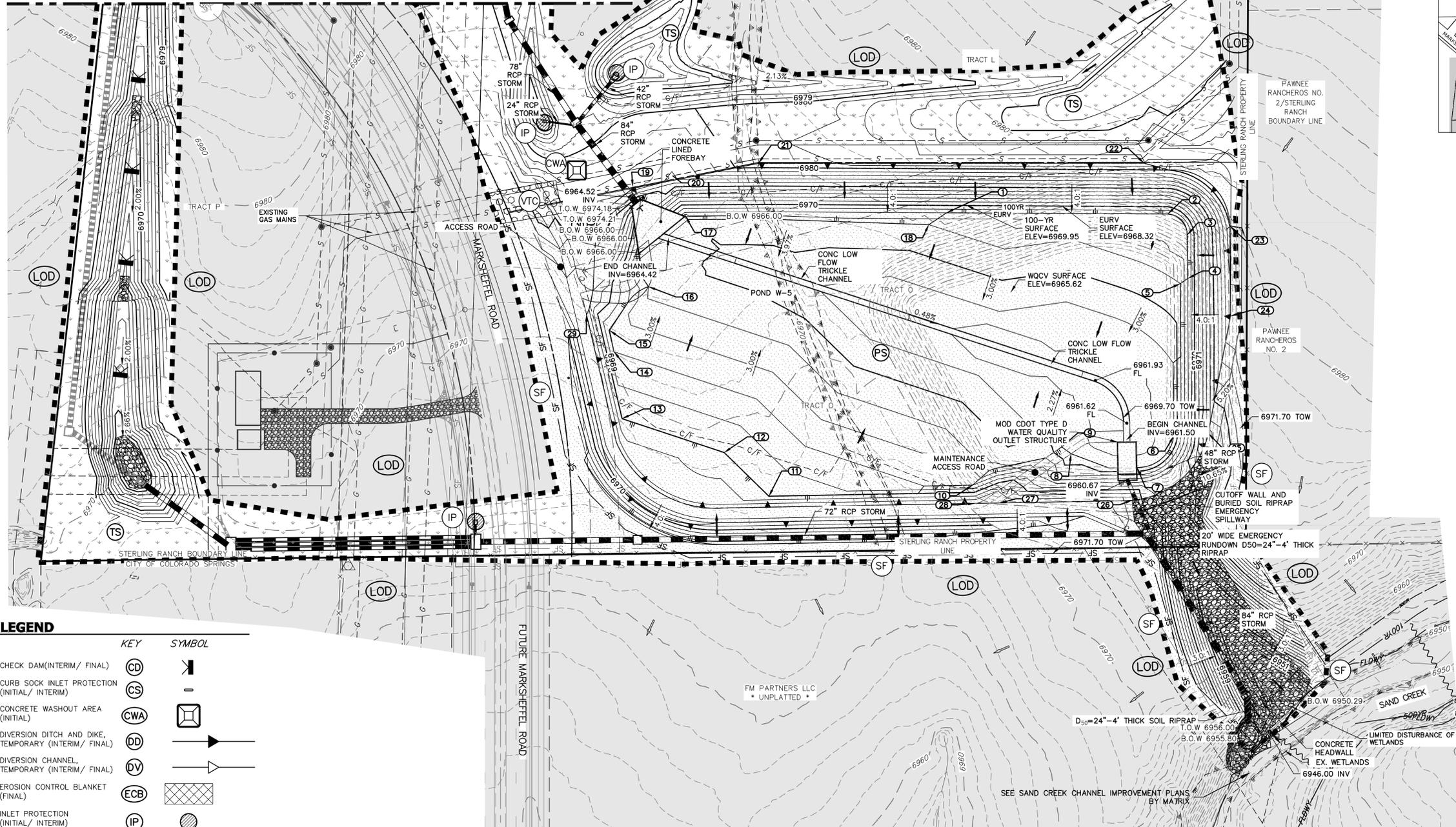
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AREA TO BE CONSTRUCTED IN SF-20-015

SEE SHEET 5



**KEY MAP**  
SCALE: NTS

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
1	GR - TOE	N: 409330.59 E: 234719.59	6968.00
2	GR - TOE	N: 409329.24 E: 234962.15	6968.01
3	GR - TOE	N: 409306.19 E: 234983.29	6967.98
4	GR - TOE	N: 409258.87 E: 234984.05	6968.01
5	GR - TOE	N: 409253.26 E: 234976.07	6966.00
6	GR - TOE	N: 409086.75 E: 234968.77	6964.00
7	GR - TOE	N: 409052.41 E: 234928.44	6964.00
8	GR - TOE	N: 409067.42 E: 234856.19	6964.00
9	GR - TOE	N: 409074.88 E: 234845.86	6964.00
10	GR - TOE	N: 409033.16 E: 234748.21	6968.00
11	GR - TOE	N: 409021.08 E: 234524.79	6970.00
12	GR - TOE	N: 409068.77 E: 234475.75	6970.00
13	GR - TOE	N: 409105.73 E: 234363.76	6970.00
14	GR - TOE	N: 409178.88 E: 234354.80	6968.00
15	GR - TOE	N: 409202.09 E: 234350.11	6967.97
16	GR - TOE	N: 409249.98 E: 234392.72	6966.00
17	GR - TOE	N: 409326.72 E: 234433.40	6966.32
18	GR - TOE	N: 409317.60 E: 234700.23	6966.00
19	GR - TOP	N: 409359.23 E: 234375.39	6977.61
20	GR - TOP	N: 409370.91 E: 234419.36	6976.90
21	GR - TOP	N: 409384.53 E: 234513.21	6980.23
22	GR - TOP	N: 409384.74 E: 234936.25	6981.82
23	GR - TOP	N: 409316.18 E: 235030.15	6980.00
24	GR - TOP	N: 409217.86 E: 235030.90	6978.46
25	GR - TOP	N: 409089.67 E: 235006.64	6972.60
26	GR - TOP	N: 409016.69 E: 234923.18	6971.08
27	GR - TOP	N: 409013.69 E: 234777.86	6972.00
28	GR - TOP	N: 409013.21 E: 234750.66	6972.00
29	GR - TOP	N: 409219.16 E: 234324.80	6972.25
30	GR - TOP	N: 409326.96 E: 234336.70	6976.41

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
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CONCRETE WASHOUT AREA (INITIAL)	CWA
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD
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TEMPORARY SEEDING (FINAL)	TS
VEHICLE TRACKING CONTROL (INITIAL)	VTC
SEDIMENT BASIN (INITIAL)	SB

811 logo with text: Know what's below. Call before you dig.

Scale: ORIGINAL SCALE: 1" = 60'

North arrow pointing up.

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER  
 DATE: 5/26/21

STERLING RANCH FILING NO. 2  
 FINAL GRADING & EROSION CONTROL PLAN  
 SHEET 7 OF 13  
 JOB NO. 25188.01

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

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ALL TEMPORARY RIPRAP SHOWN ON THE PLANS SHALL BE TYPE "M". RIPRAP SHALL BE PLACED IN THE LOCATIONS INDICATED BY THE PLAN OR IN AREAS AS THE CONTRACTOR SEES FIT TO CONTROL EROSION. ALL RIPRAP SHALL BE PLACED AT A MINIMUM THICKNESS OF 1.5' DEEP.

**ADDITIONAL NOTES**

STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.

THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.

EXISTING VEGETATION IS NATIVE MEADOW GRASS (APPROXIMATELY 75% COVERAGE).

NO ASPHALT OR CONCRETE BATCH PLANTS WILL BE UTILIZED ONSITE.

USE J-HOOKS ON SILT FENCE TO ENSURE IT DOES NOT CREATE CONCENTRATED FLOW

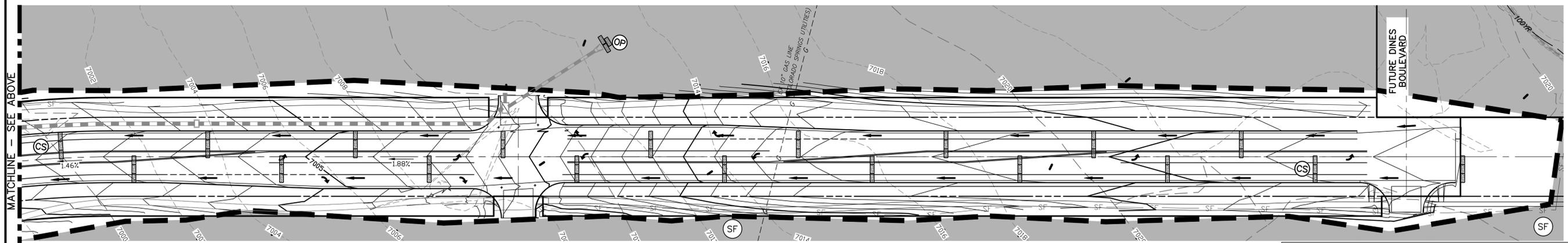
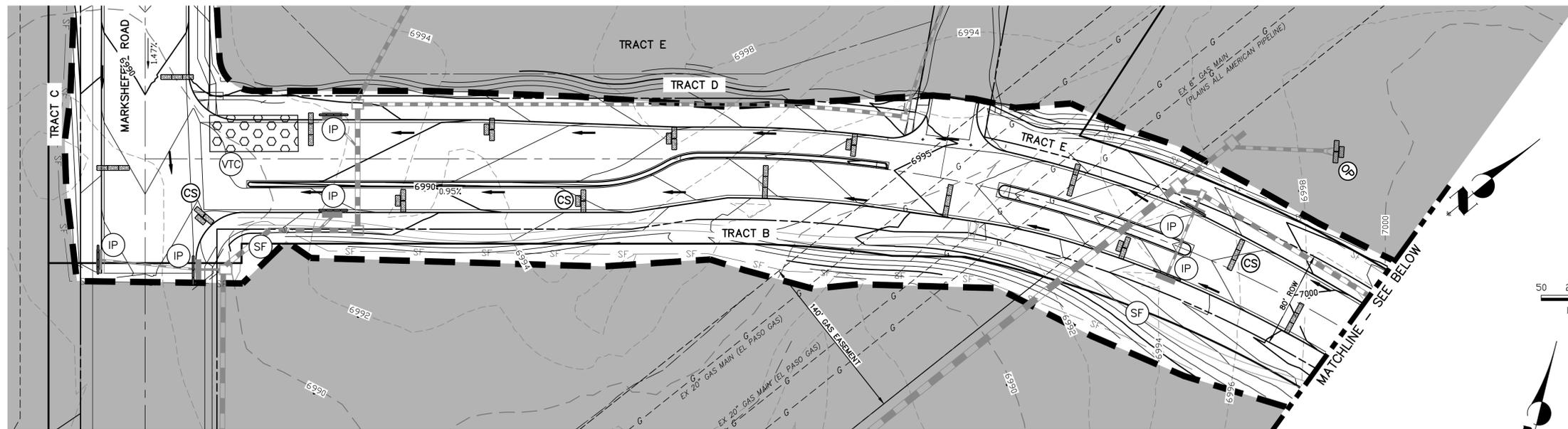
AREA TO BE CONSTRUCTED IN CDR-20-005

**WARNING**  
**HIGH-PRESSURE PIPELINE(S)**

EXCAVATION AND/OR CONSTRUCTION PROHIBITED  
WITHOUT COMPLIANCE WITH STATE ONE-CALL, AND  
WITHOUT WRITTEN PERMISSION FROM  
MAGELLAN PIPELINE COMPANY, L.P.

**LEGEND**

KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	CD
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	CS
CONCRETE WASHOUT AREA (INITIAL)	CWA
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	DD
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	DV
EROSION CONTROL BLANKET (FINAL)	ECB
INLET PROTECTION (INITIAL/ INTERIM)	IP
OUTLET PROTECTION (INITIAL/ INTERIM)	OP
PERMANENT SEEDING (FINAL)	PS
FLOW ARROW	→
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	SCL
CUT/FILL MARK	--- C/F ---
SILT FENCE (INITIAL)	SF
CONSTRUCTION FENCE	CF
STABILIZED STAGING AREA (INITIAL)	SSA
TEMPORARY SEEDING (FINAL)	TS
VEHICLE TRACKING CONTROL (INITIAL)	VTC
SEDIMENT BASIN (INITIAL)	SB



**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
*Mike A. Bramlett*  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, INC. LOCAL ENGINEER  
 DATE 5/26/21

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

PREPARED FOR  
**SR LAND, LLC**  
 20 BOULDER CRESCENT  
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 COLORADO SPRINGS, CO 80903  
 JAMES F. MORLEY  
 (719) 471-1742

**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	REVISION

H-SCALE	AS NOTED	No.	REVISION
V-SCALE	N/A		
DATE	04/15/21	DESIGNED BY	RAB
DRAWN BY	KRW	CHECKED BY	

STERLING RANCH FILING NO.2  
 FINAL GRADING & EROSION CONTROL PLAN

SHEET 9 OF 13  
 JOB NO. 25188.01

**LEGEND**

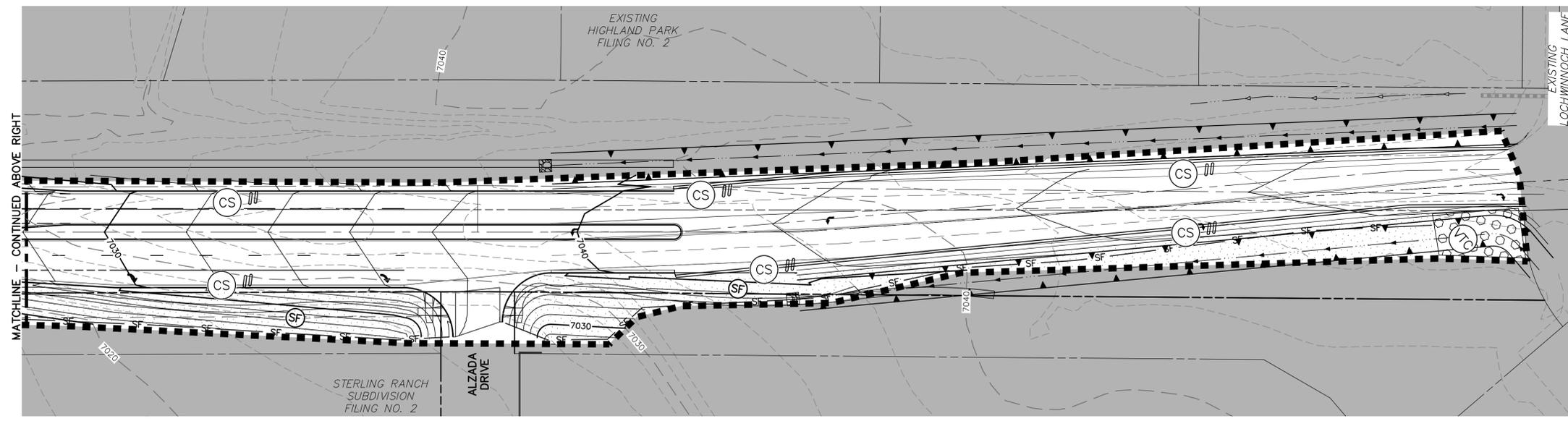
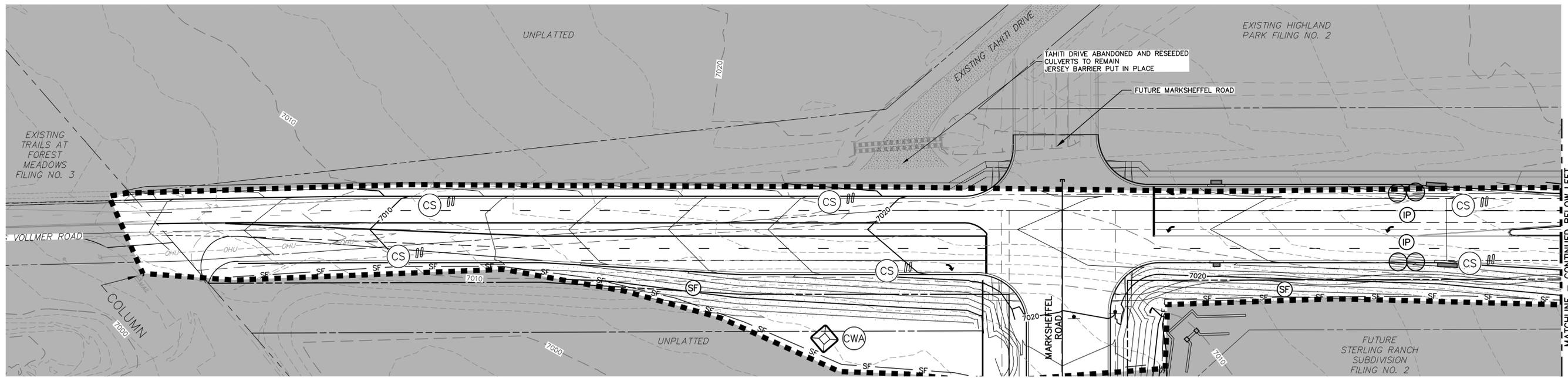
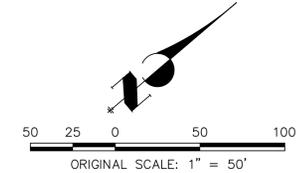
KEY	SYMBOL	KEY	SYMBOL
CHECK DAM (INTERIM/ FINAL)	(CD)	STABILIZED STAGING AREA (INITIAL)	(SSA)
CURB SOCK INLET PROTECTION (INITIAL/ INTERIM)	(CS)	TEMPORARY SEEDING (FINAL)	(TS)
CONCRETE WASHOUT AREA (INITIAL)	(CWA)	VEHICLE TRACKING CONTROL (INITIAL)	(VTC)
DIVERSION DITCH AND DIKE, TEMPORARY (INTERIM/ FINAL)	(DD)	SEDIMENT BASIN (INITIAL)	(SB)
DIVERSION CHANNEL, TEMPORARY (INTERIM/ FINAL)	(DV)		
EROSION CONTROL BLANKET (FINAL)	(ECB)		
INLET PROTECTION (INITIAL/ INTERIM)	(IP)		
OUTLET PROTECTION (INITIAL/ INTERIM)	(OP)		
PERMEMENT SEEDING (FINAL)	(PS)		
FLOW ARROW	→		
SEDIMENT CONTROL LOG (INITIAL/ INTERIM)	(SCL)		
CUT/FILL MARK	--- C/F ---		
SILT FENCE (INITIAL)	(SF)		
CONSTRUCTION FENCE	(CF)		

**CONSTRUCTION NOTES**

NO WETLANDS ARE TO BE PERMANENTLY DISTURBED PER THIS GRADING PLAN.  
 NO EARLY GRADING IS TO OCCUR WITHIN THE 100 YEAR FLOODPLAIN.  
 ALL TEMPORARY RIPRAP SHOWN ON THE PLANS SHALL BE TYPE 'M'. RIPRAP SHALL BE PLACED IN THE LOCATIONS INDICATED BY THE PLAN OR IN AREAS AS THE CONTRACTOR SEES FIT TO CONTROL EROSION. ALL RIPRAP SHALL BE PLACED AT A MINIMUM THICKNESS OF 1.5' DEEP.

**ADDITIONAL NOTES**

STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.  
 THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.  
 EXISTING VEGETATION IS NATIVE MEADOW GRASS (APPROXIMATELY 75% COVERAGE).  
 NO ASPHALT OR CONCRETE BATCH PLANTS WILL BE UTILIZED ONSITE.  
 AREA TO BE CONSTRUCTED IN CDR-20-005



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No.	REVISION	BY	DATE

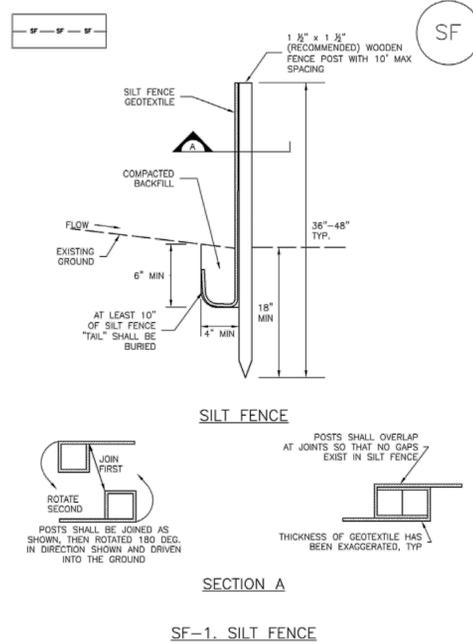
H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=50'	N/A	04/15/21	RAB	KRW	

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
*Mike A. Bramlett*  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEER  
 DATE 5/26/21



**Silt Fence (SF)**

**SC-1**



**SILT FENCE**

**SECTION A**

**SF-1. SILT FENCE**

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

**SC-1**

**Silt Fence (SF)**

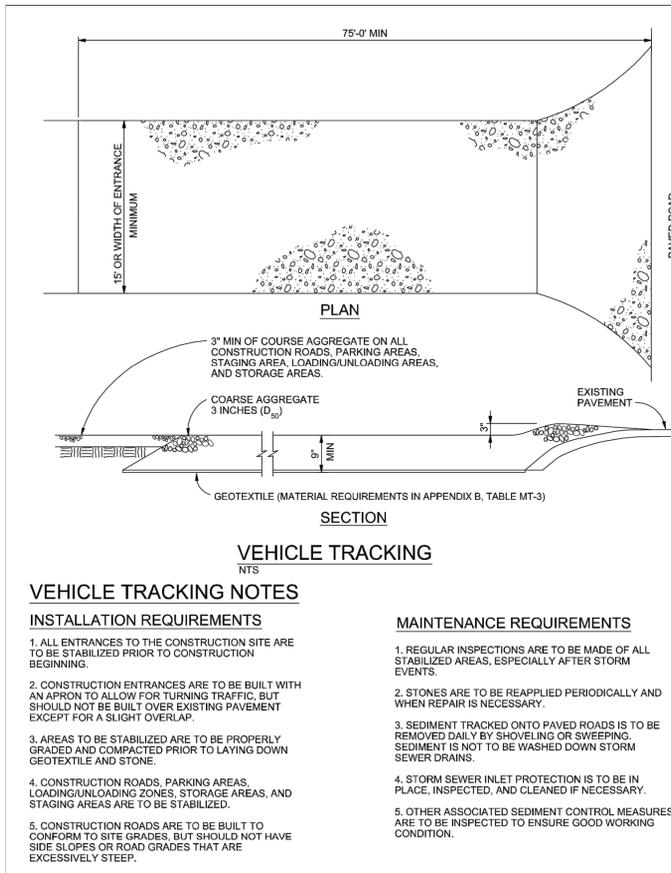
**SILT FENCE INSTALLATION NOTES**

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTATION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE GAPS BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "U-HOOK." THE "U-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE 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 UPSTREAM OF THE SILT FENCE SHOULD BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
  5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
  6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
  7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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 DIFFERENCES ARE NOTED.

SF-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010



**VEHICLE TRACKING**

**VEHICLE TRACKING NOTES**

**INSTALLATION REQUIREMENTS**

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

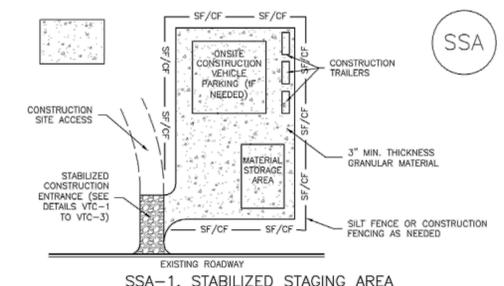
**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

MM-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Stabilized Staging Area (SSA)**

**SM-6**



**SSA-1. STABILIZED STAGING AREA**

**STABILIZED STAGING AREA INSTALLATION NOTES**

1. SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
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 MATERIAL.
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 DOCUMENTED THOROUGHLY.
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.

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

**SM-4**

**Vehicle Tracking Control (VTC)**

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

1. SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

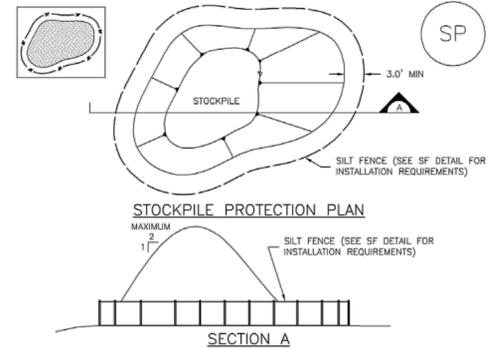
**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

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. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
  5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- 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.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Stockpile Management (SP)**

**MM-2**



**STOCKPILE PROTECTION PLAN**

**SECTION A**

**SP-1. STOCKPILE PROTECTION**

**STOCKPILE PROTECTION INSTALLATION NOTES**

1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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

**MM-2**

**Stockpile Management (SM)**

**STOCKPILE PROTECTION 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.

**STOCKPILE PROTECTION MAINTENANCE NOTES**

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
  5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.
- (DETAILS ADAPTED FROM PARKER, 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 DIFFERENCES ARE NOTED.

SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**SM-6**

**Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
  6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- 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.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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PREPARED FOR  
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BY	DATE	No.	REVISION	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				1"=XX'	1"=X'	04/15/21	XXX	XXX	XXX
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