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SUITE 250
COLORADO SPRINGS, CO 80920
719-598-5192
JIM BYERS

CHALLENGER HOMES
FALCON HIGHLANDS SOUTH
EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
INITIAL GECIP

CLIENT

DATE 8/31/2022

A 1st SUBMITTAL TO EPC
07/29/2022 - RDL

REVISIONS

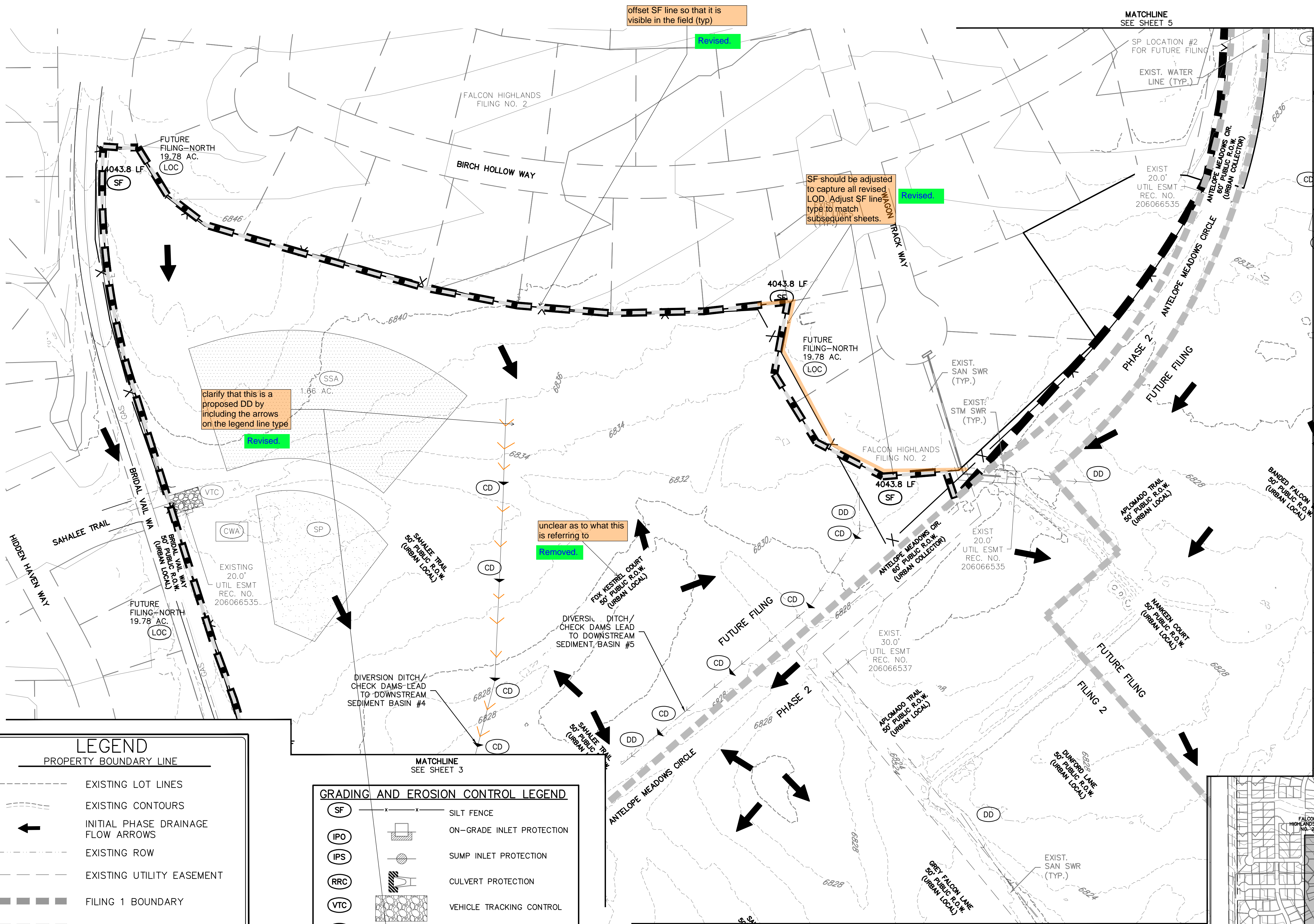
COUNTY FILE NO.:
PUDSP-22-005

DR. JD CH.
P.M. RDL

JOB 21005234
SHEET NO.

2

CAD FILE: 21005234-GECP-INITIAL.DWG



LEGEND

PROPERTY BOUNDARY LINE

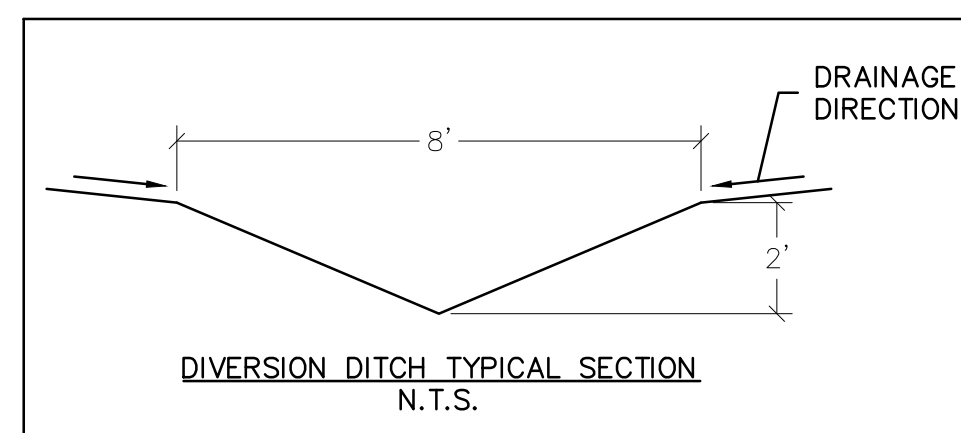
- EXISTING LOT LINES
- EXISTING CONTOURS
- INITIAL PHASE DRAINAGE FLOW ARROWS
- EXISTING ROW
- EXISTING UTILITY EASEMENT
- FILING 1 BOUNDARY
- FILING 2 BOUNDARY
- FUTURE FILING
- SECTION LINES

GRADING AND EROSION CONTROL LEGEND

- SF SILT FENCE
- IPO ON-GRADE INLET PROTECTION
- IPS SUMP INLET PROTECTION
- RRC CULVERT PROTECTION
- VTC VEHICLE TRACKING CONTROL
- CWA CONCRETE WASHOUT AREA
- SSA STABILIZED STAGING AREA
- SM SEEDING AND MULCHING
- LOC LIMITS OF CONSTRUCTION/DISTURBANCE
- DD DIVERSION DITCH
- ECB EROSION CONTROL BLANKET
- SP STOCK PILE
- RS ROCK SOCKS
- SB SEDIMENT BASIN
- CD CHECK DAMS

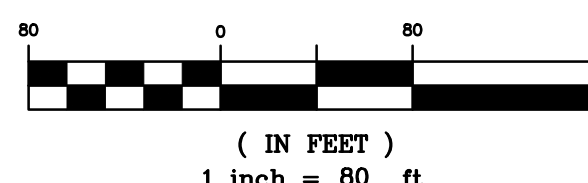
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remove, does not
match note on cover of
GEC and DR text

Removed

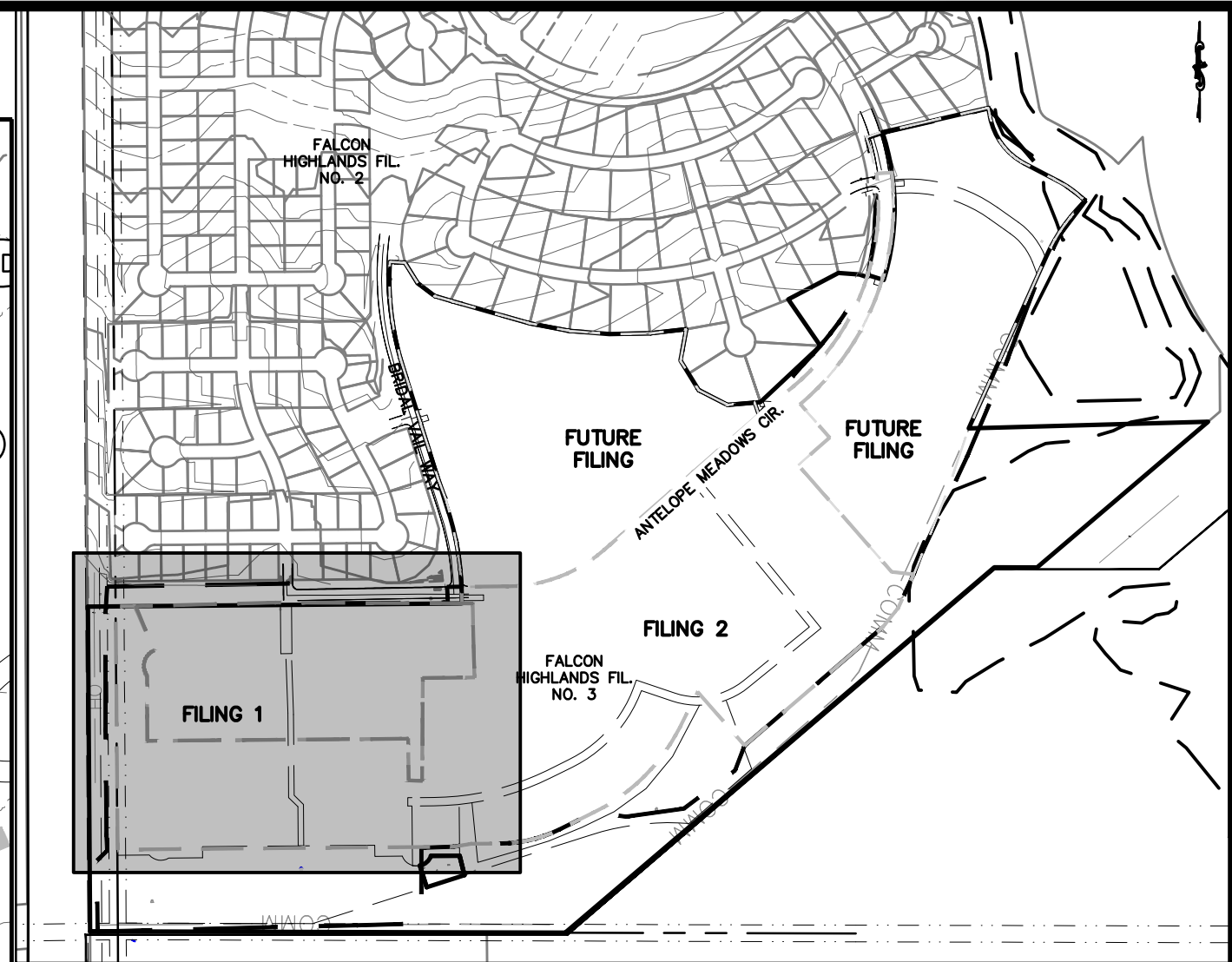


BENCHMARK:

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(ELEVATION: 6810.43=NAVD88).

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GRADING AND EROSION CONTROL LEGEND		
(SF)	— x — x —	SILT FENCE
(IPO)		ON-GRADE INLET PROTECTION
(IPS)		SUMP INLET PROTECTION
(RRC)		CULVERT PROTECTION
(VTC)		VEHICLE TRACKING CONTROL
(CWA)		CONCRETE WASHOUT AREA
(SSA)		STABILIZED STAGING AREA
(SM)		SEEDING AND MULCHING
(LOC)	— — — — —	LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)		DIVERSION DITCH
(ECB)		EROSION CONTROL BLANKET
(SP)		STOCK PILE
(RS)		ROCK SOCKS
(SB)		SEDIMENT BASIN
(CD)		CHECK DAMS

LEGEND	
PROPERTY BOUNDARY LINE	
---	EXISTING LOT LINES
---	EXISTING CONTOURS
←	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
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---	FILING 1 BOUNDARY
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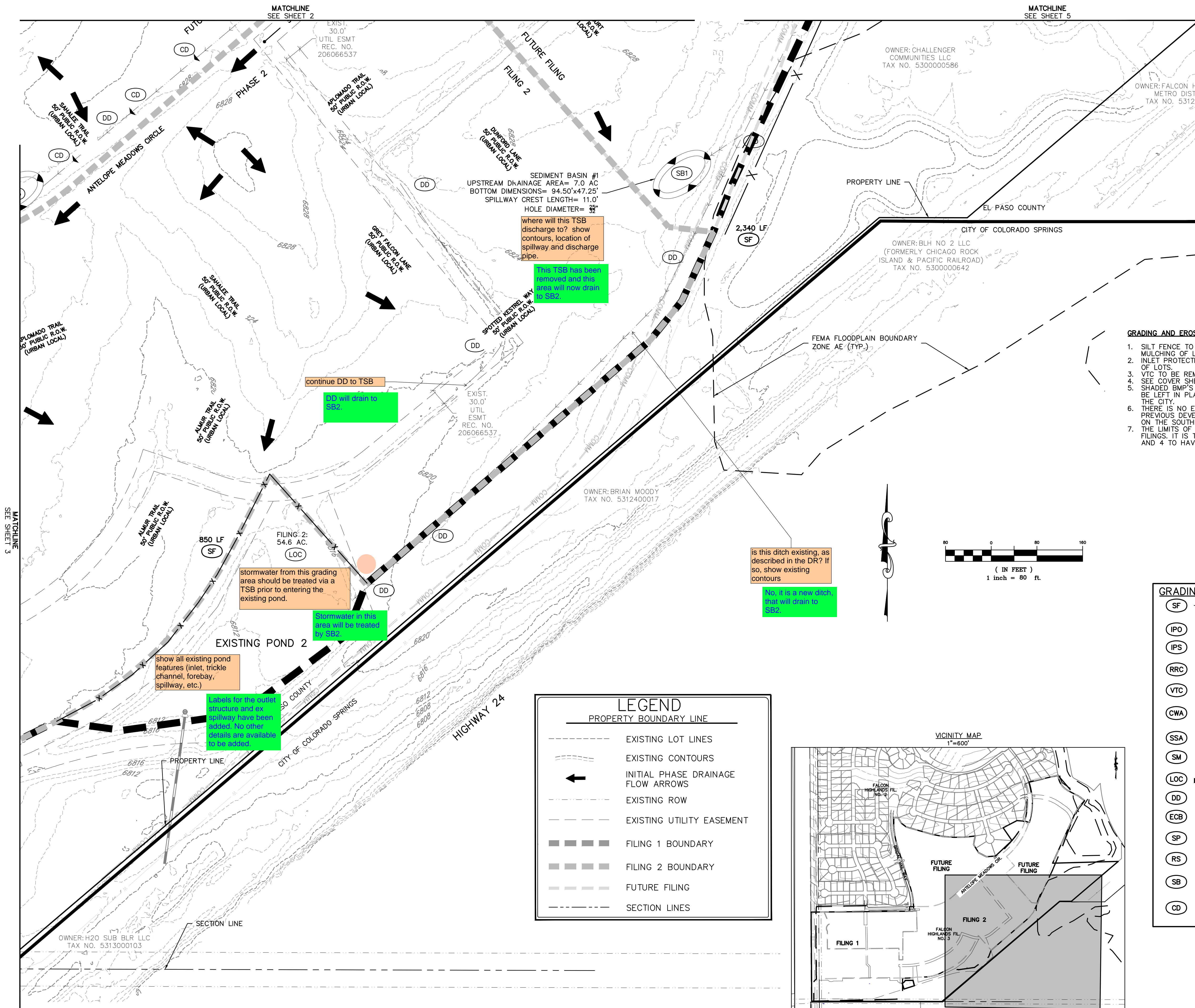
P.M. RDL

JOB 21005234

SHEET NO. 3

\\ATWELL\PROJECTS\21005234\CHALLENGER HOMES\21005234-GRADING AND EROSION CONTROL PLAN.dwg 8/31/2022 3:40 PM JIM BYERS

CAD FILE: 21005234-GECP-INITIAL.DWG



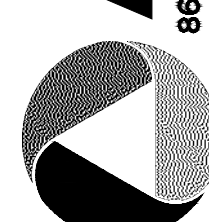
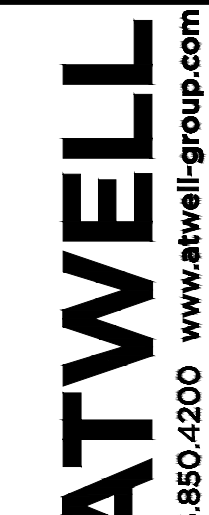


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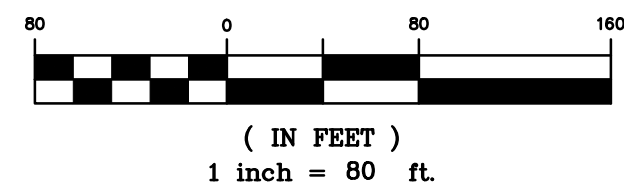
P.M. RDL

JOB 21005234

SHEET NO.

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CAD FILE: 21005234-GECP-INITIAL.DWG



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LOC	LIMITS OF CONSTRUCTION/DISTURBANCE
DD	DIVERSION DITCH
ECB	EROSION CONTROL BLANKET
SP	STOCK PILE
RS	ROCK SOCKS
SB	SEDIMENT BASIN
CD	CHECK DAMS

LEGEND

PROPERTY BOUNDARY LINE

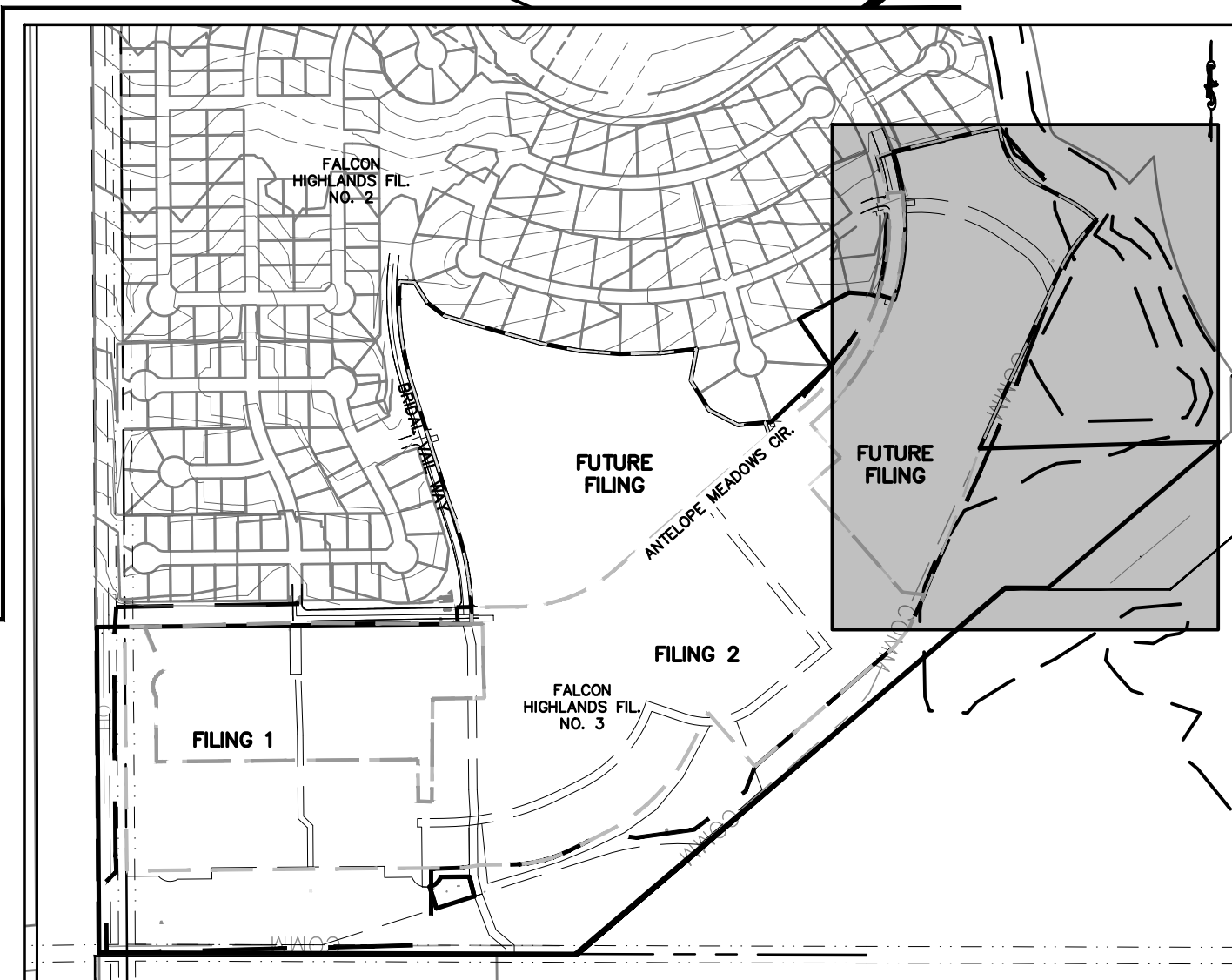
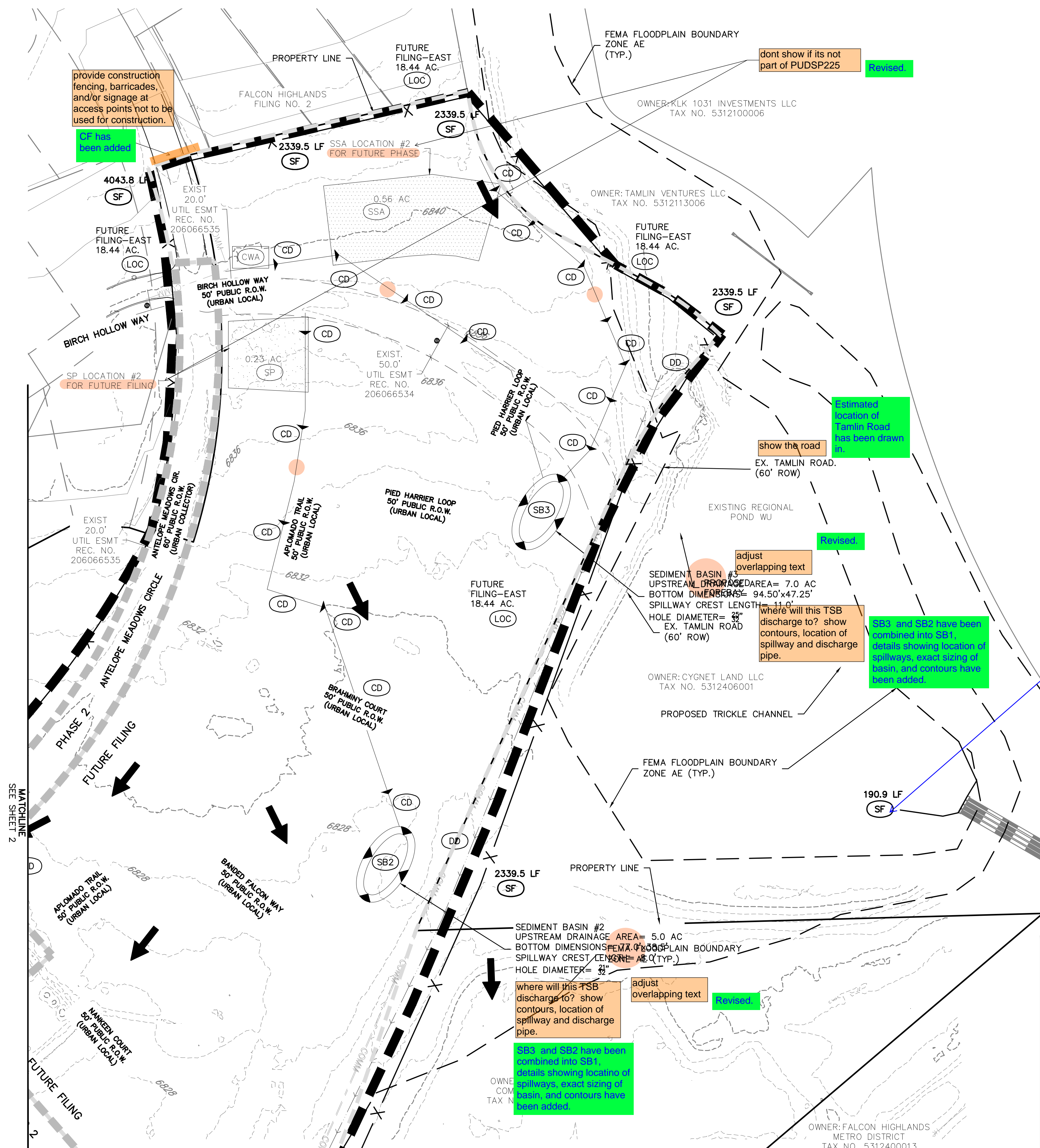
---	EXISTING LOT LINES
---	EXISTING CONTOURS
---	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
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---	FILING 2 BOUNDARY
---	FUTURE FILING

BENCHMARK:

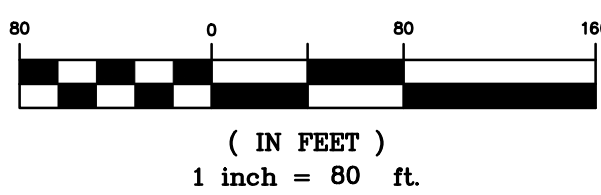
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VICINITY MAP
1"=600'



MATCHLINE
SEE SHEET 6



811
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LEGEND	
	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

some of these arrows seem to be pointing in the wrong direction

Revised

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please match interim and final plans to the same order as the initial sheets

Revised

GRADING AND EROSION CONTROL LEGEND		
(SSA)		STABILIZED STAGING AREA
(SM)		SEEDING AND MULCHING
(LOC)		LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)		DIVERSION DITCH
(ECB)		EROSION CONTROL BLANKET
(SP)		STOCK PILE
(RS)		ROCK SOCKS
(SB)		SEDIMENT BASIN
(CD)		CHECK DAMS

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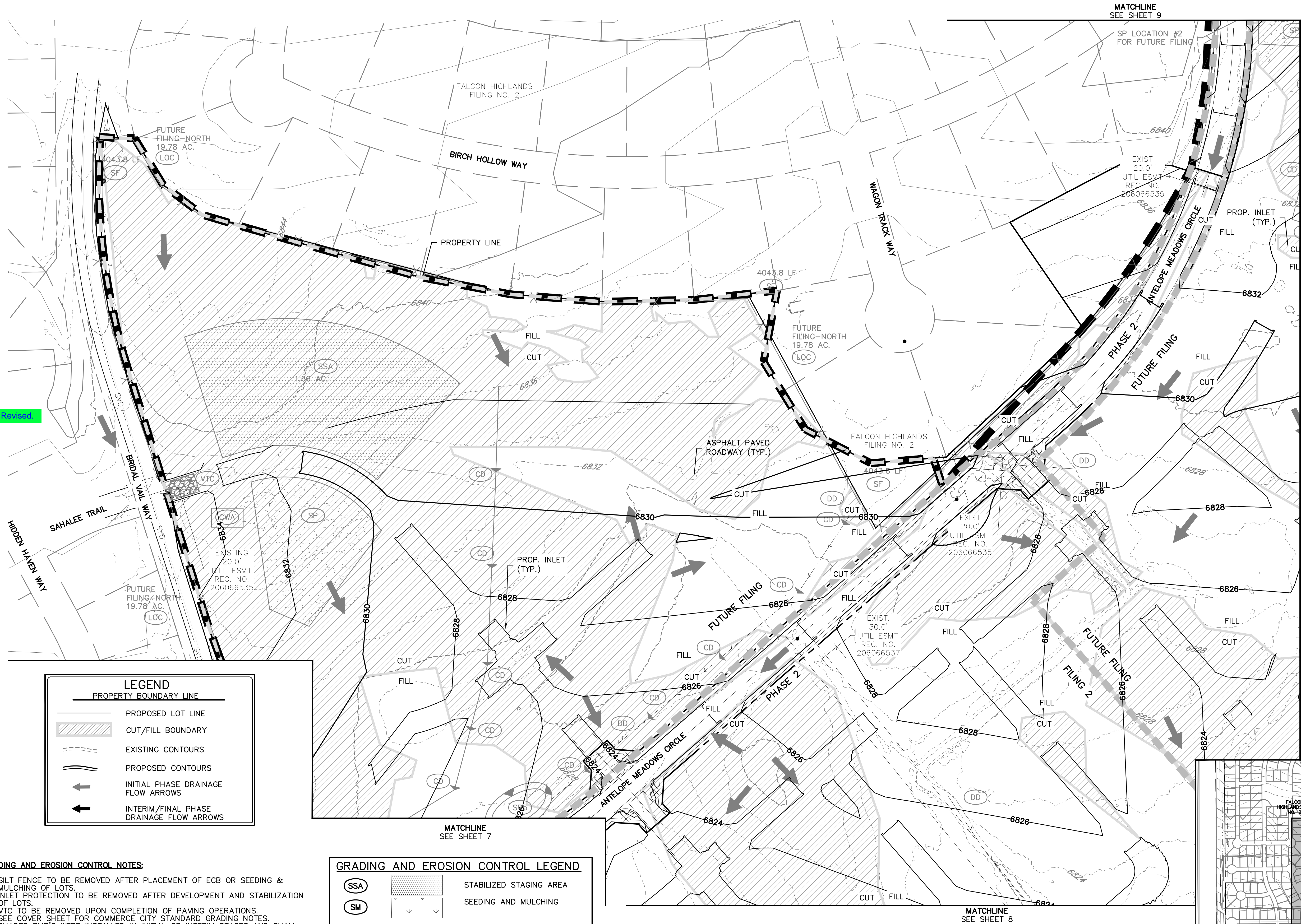
CLIENT	CHALLENGER HOMES		
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JOB	21005234		
SHEET NO.	6		

CAD FILE: 21005234-SECP-INTERIM.DWG

C:\PROJECTS\21005234\21005234-GEOP-INTERIM.DWG 8/31/2022 3:11 PM BRYAN L. COOPER

show
proposed
flows

Revised



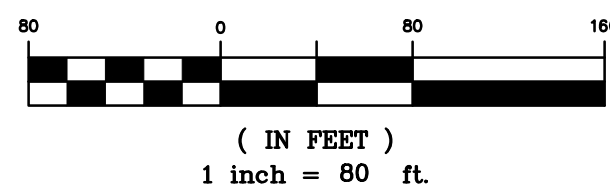
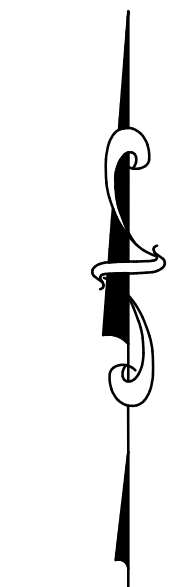
LEGEND	
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	CUT/FILL BOUNDARY
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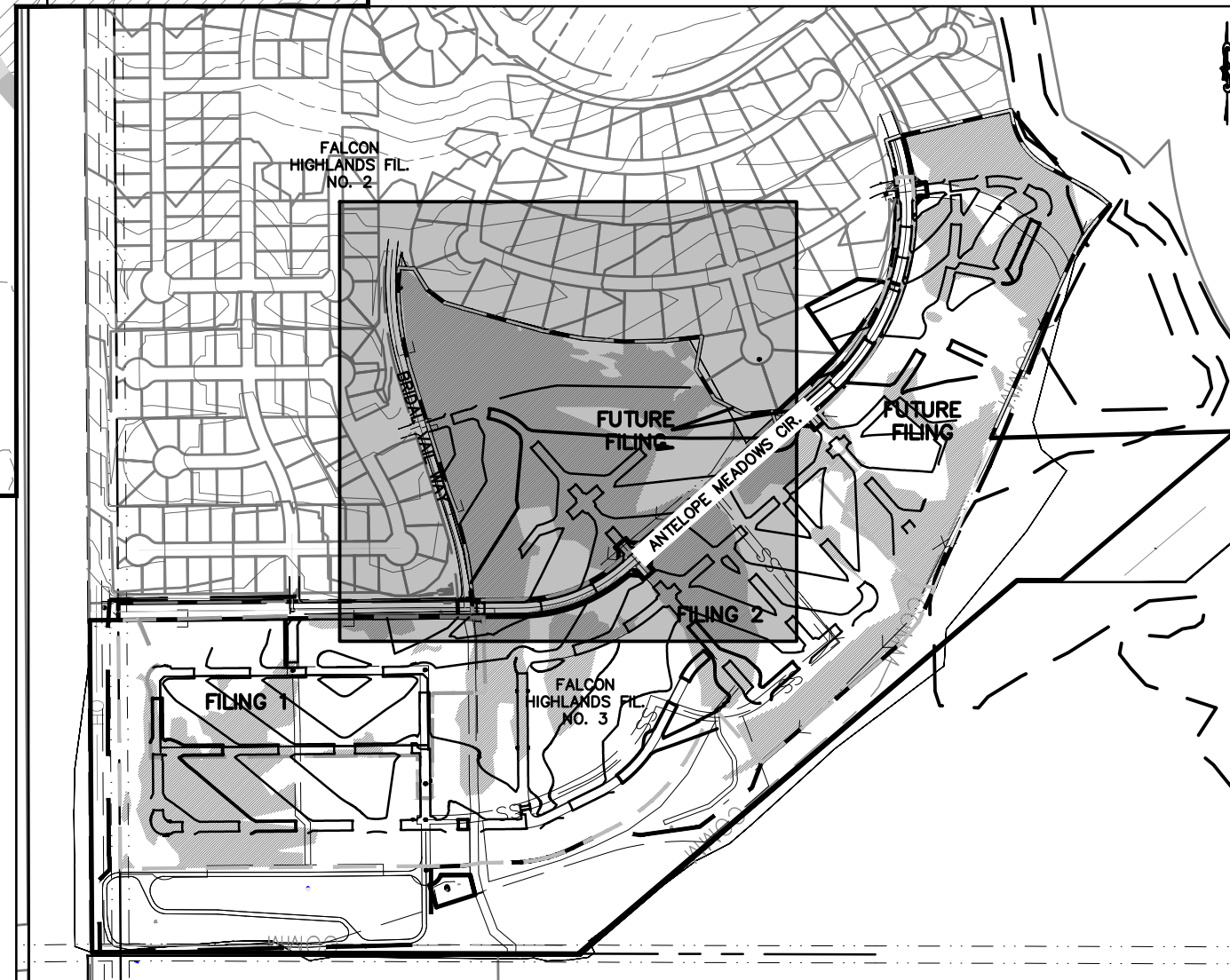
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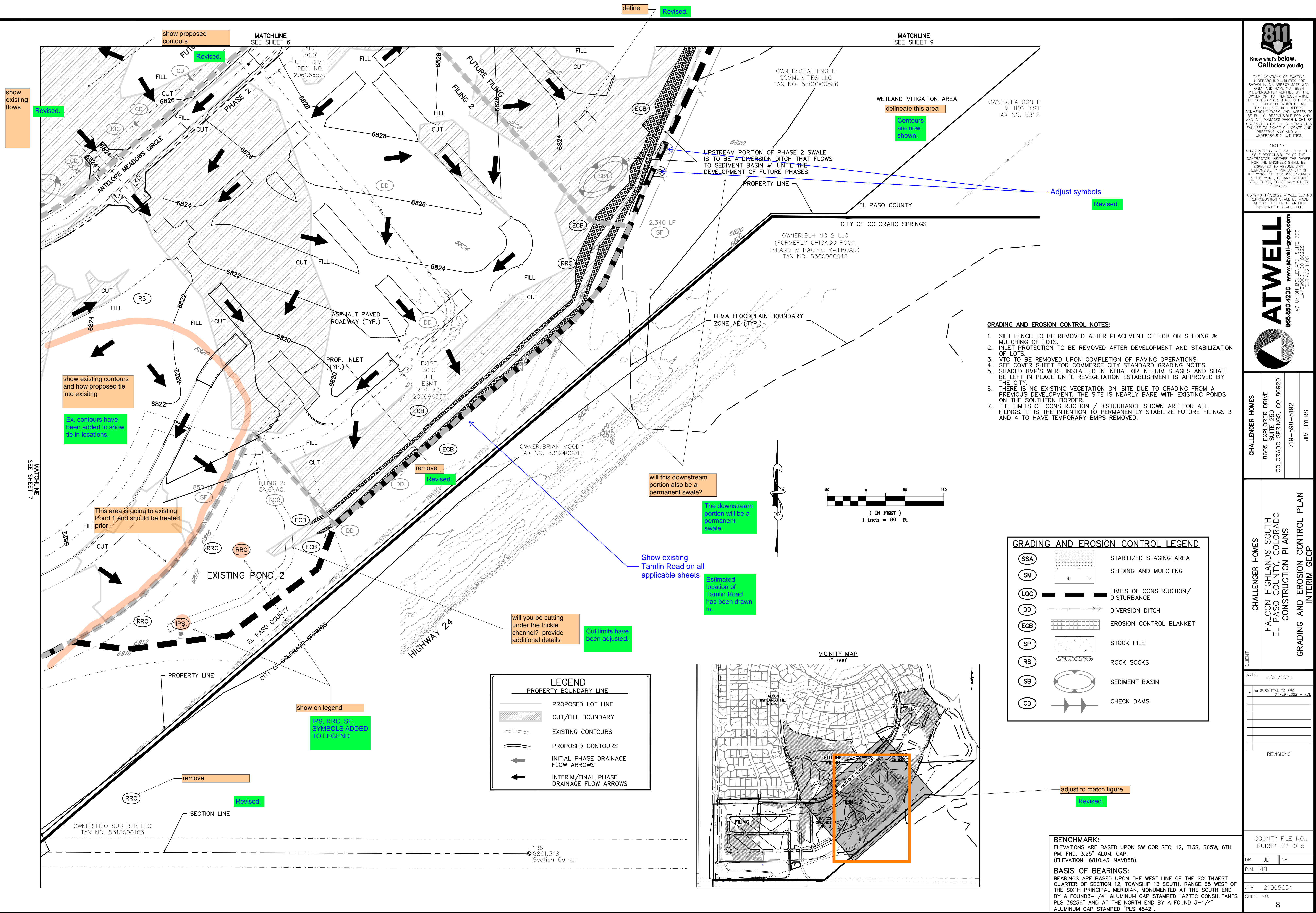
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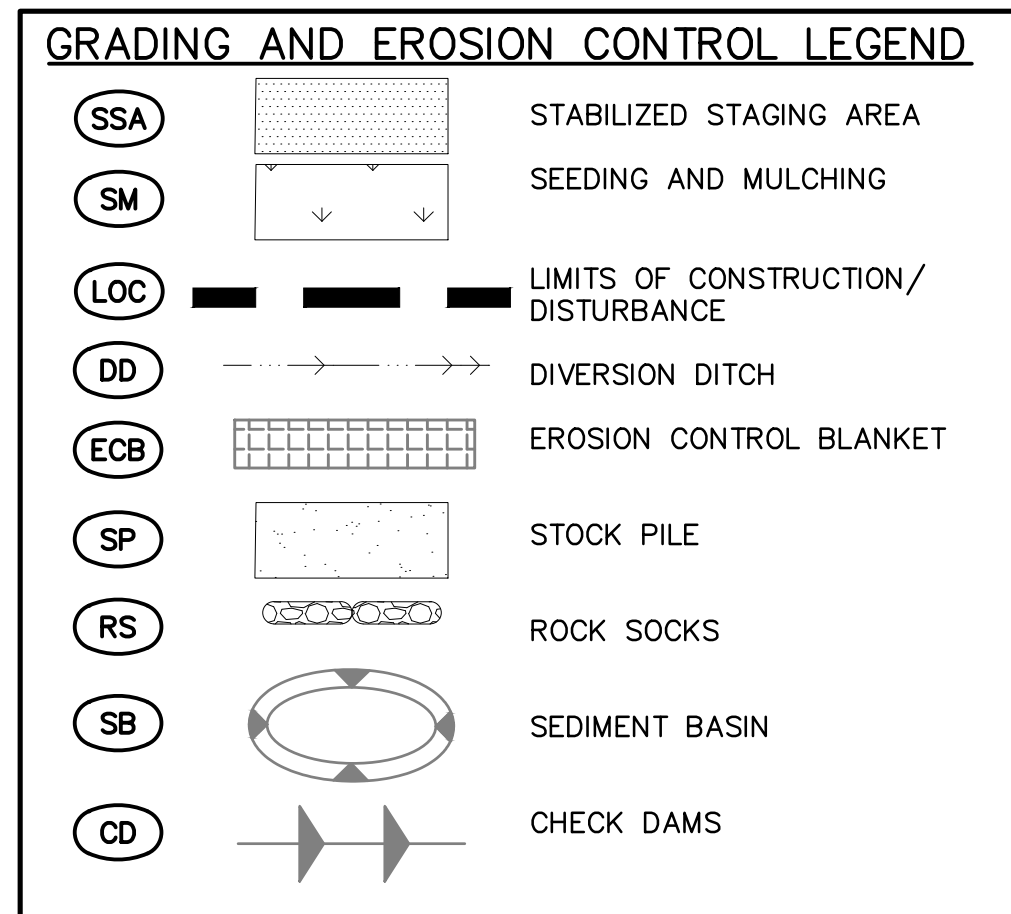
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GRADING AND EROSION CONTROL NOTES:

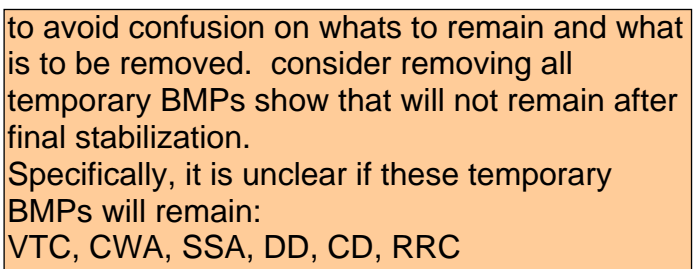
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CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
FINAL GECP

DATE	8/31/2022
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A	1st SUBMITTAL TO EPC 07/29/2022 - RDL

A	07/29/2022 - RDL

REVISIONS

COUNTY FILE NO.:
BUDSP-22-005

PUDSP-22-005

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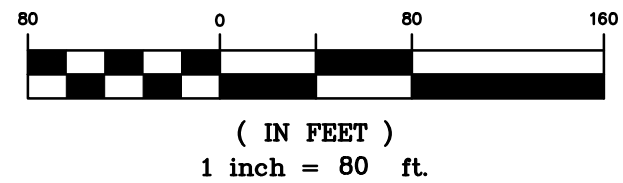
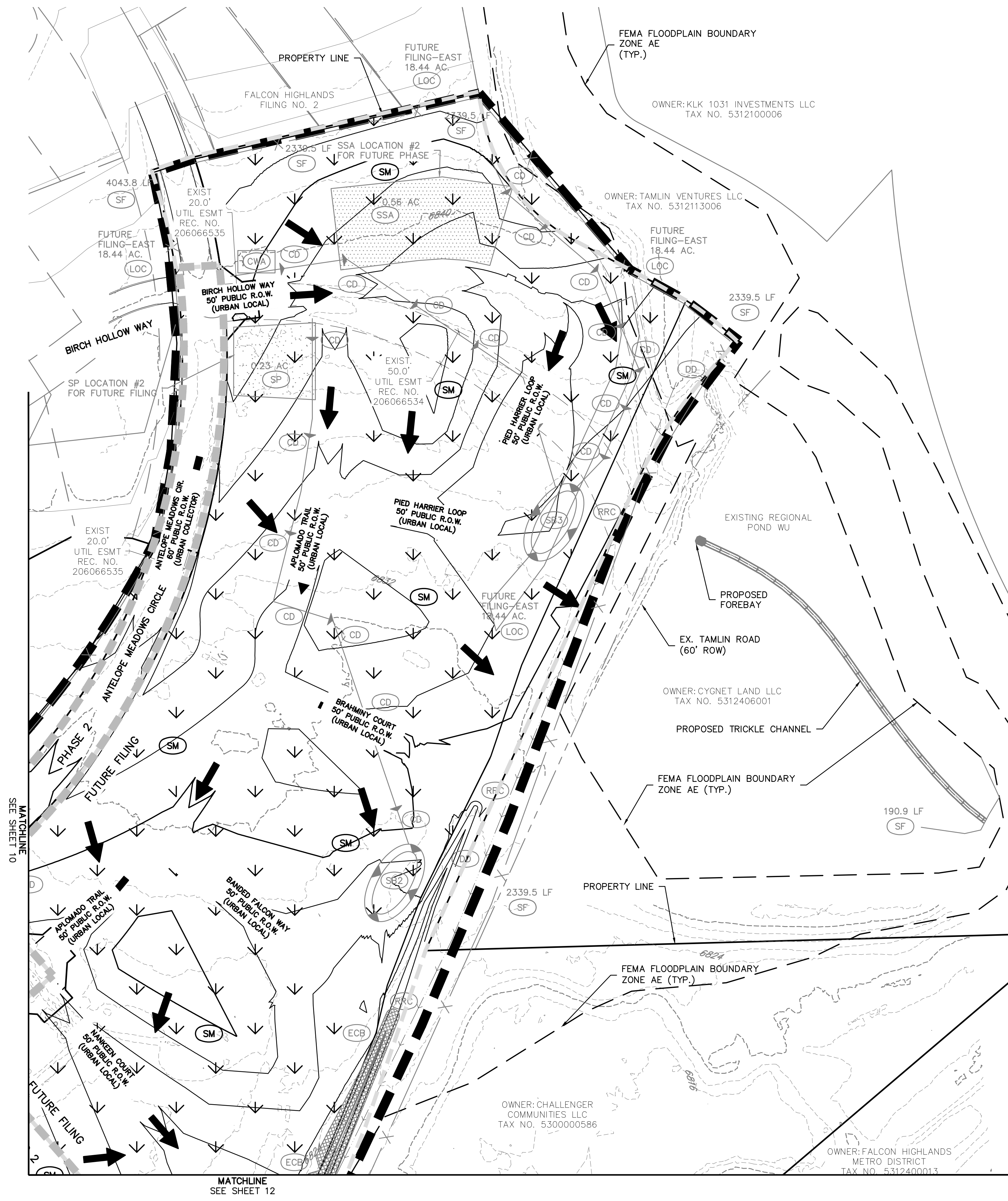
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LEGEND

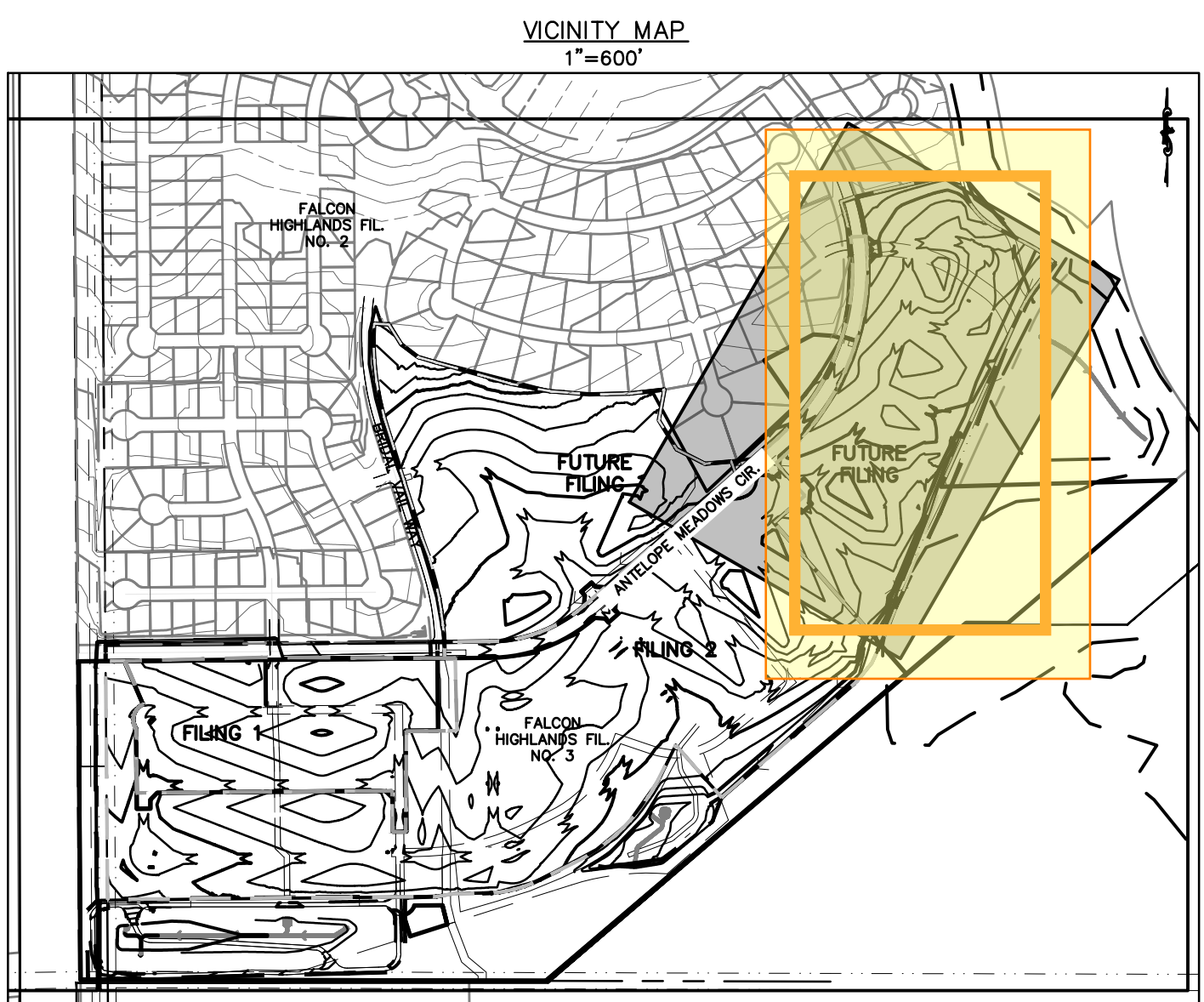
PROPERTY BOUNDARY LINE

- PROPOSED LOT LINE
- CUT/FILL BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS
- INITIAL PHASE DRAINAGE FLOW ARROWS
- INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

- GRADING AND EROSION CONTROL NOTES:**
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GRADING AND EROSION CONTROL LEGEND

(SF)	SILT FENCE
(IPO)	ON-GRADE INLET PROTECTION
(IPS)	SUMP INLET PROTECTION
(RRC)	CULVERT PROTECTION
(VTC)	VEHICLE TRACKING CONTROL
(CWA)	CONCRETE WASHOUT AREA
(SSA)	STABILIZED STAGING AREA
(SM)	SEEDING AND MULCHING
(LOC)	LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)	DIVERSION DITCH
(ECB)	EROSION CONTROL BLANKET
(SP)	STOCK PILE
(RS)	ROCK SOCKS
(SB)	SEDIMENT BASIN
(CD)	CHECK DAMS



BENCHMARK:
ELEVATIONS ARE BASED UPON SW COR SEC. 12, T13S, R65W, 6TH PM, FND. 3.25" ALUM. CAP. (ELEVATION: 6810.43=NAVD88).

BASIS OF BEARINGS:
BEARINGS ARE BASED UPON THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, MONUMENTED AT THE SOUTH END BY A FOUND-3-1/4" ALUMINUM CAP STAMPED "AZTEC CONSULTANTS PLS 38256" AND AT THE NORTH END BY A FOUND 3-1/4" ALUMINUM CAP STAMPED "PLS 4842".

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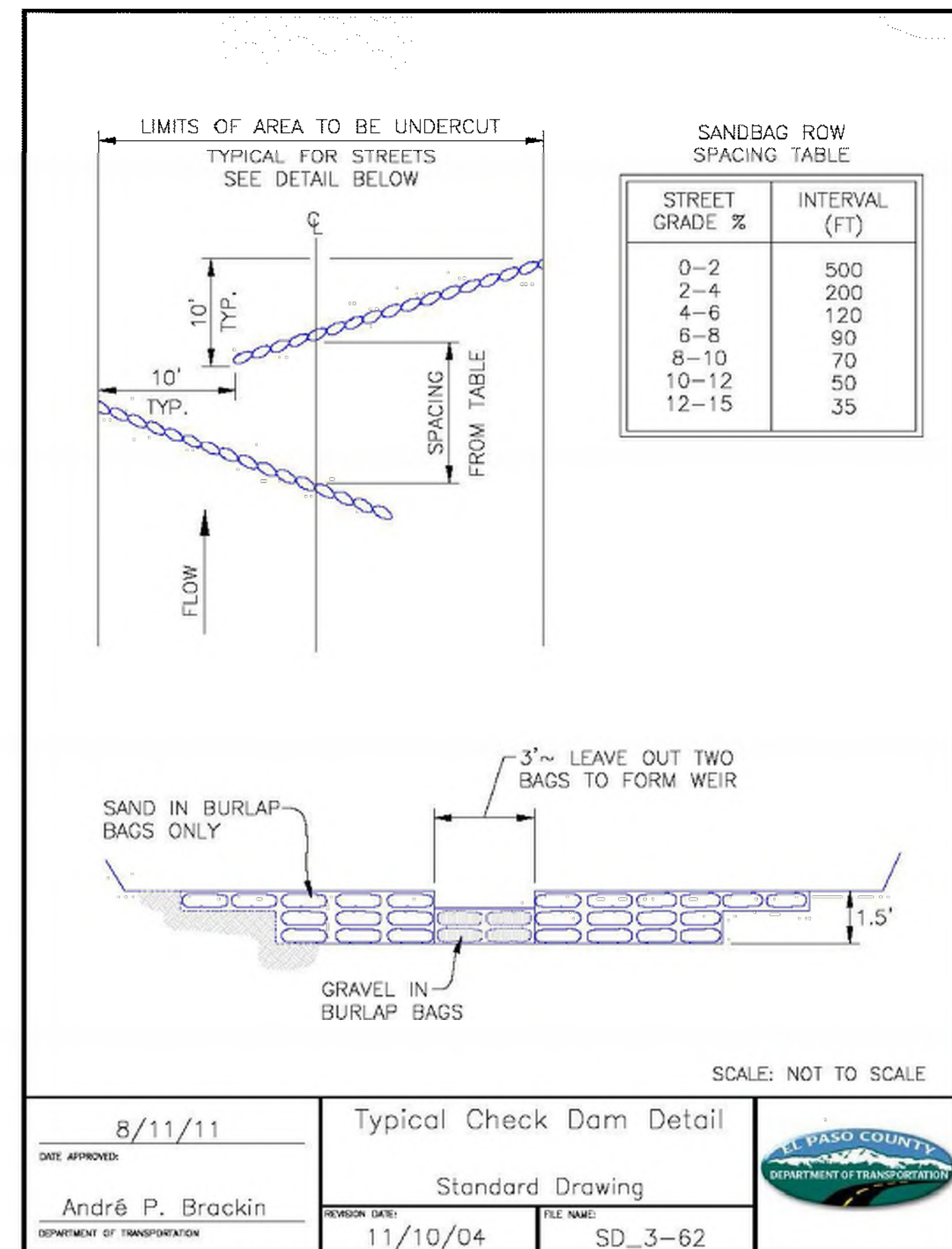
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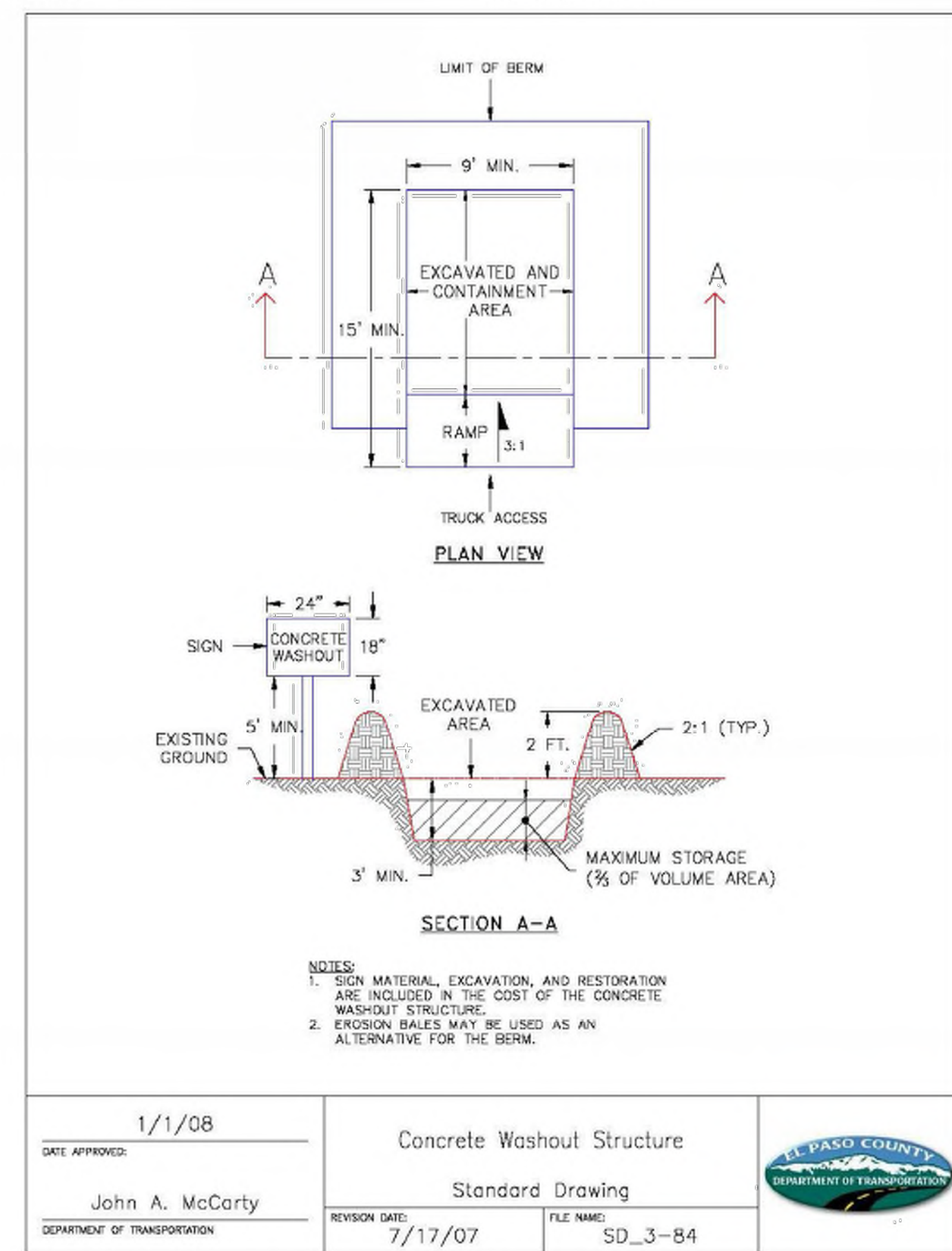
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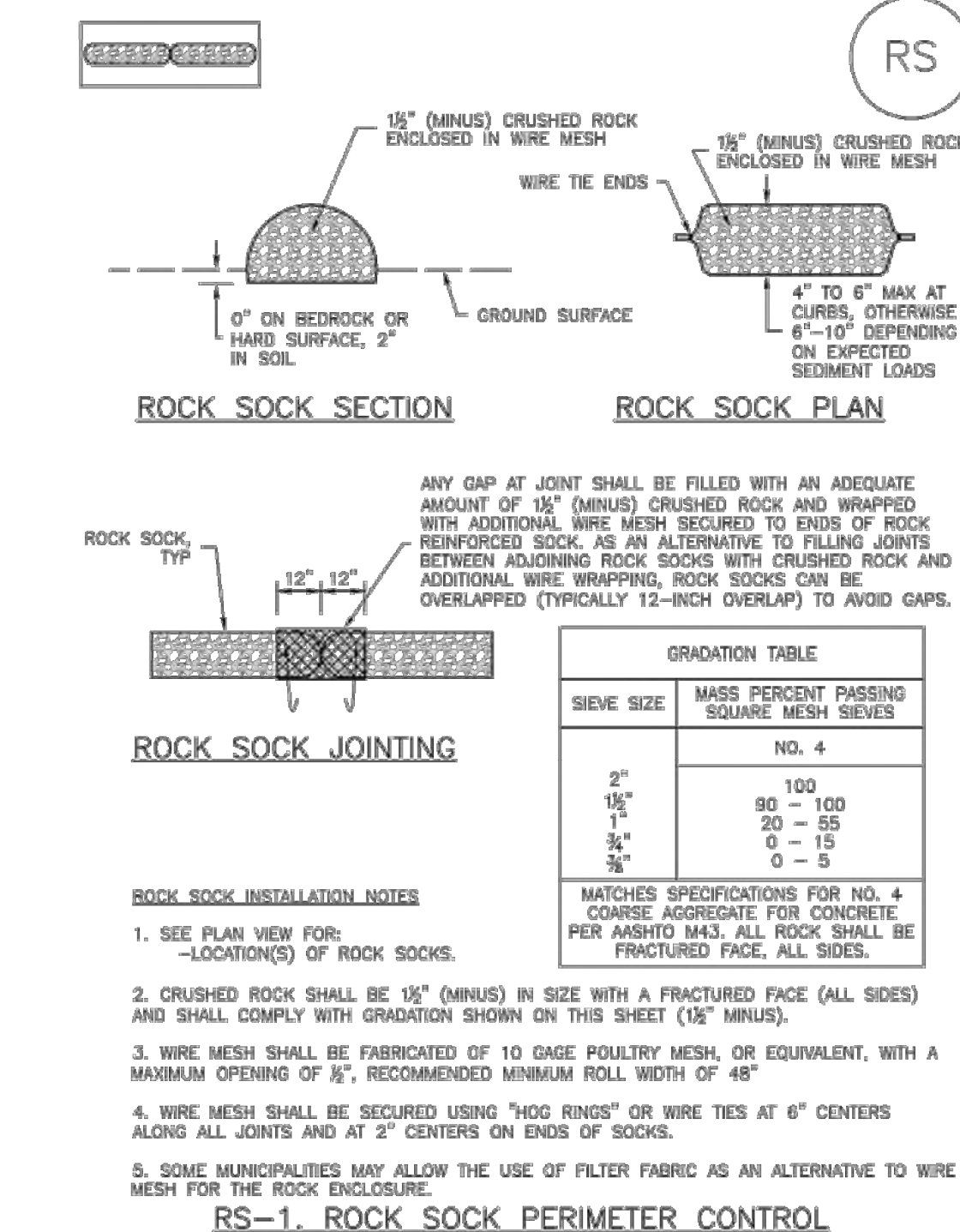


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SC-5

Rock Sock (RS)



RS-2

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

November 2010

EC-6

Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF ECB. -TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
3. IN AREAS WHERE ECBs 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 ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS				
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/ NATURAL
STRAW-COCOONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL
COCONUT	100%	-	-	DOUBLE/ NATURAL
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL

*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNELS.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

RECP-8

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Rock Sock (RS)

SC-5

ROCK SOCK 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 SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCH OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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.

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

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RS-3

Rolled Erosion Control Products (RECP)

EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

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 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
 5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
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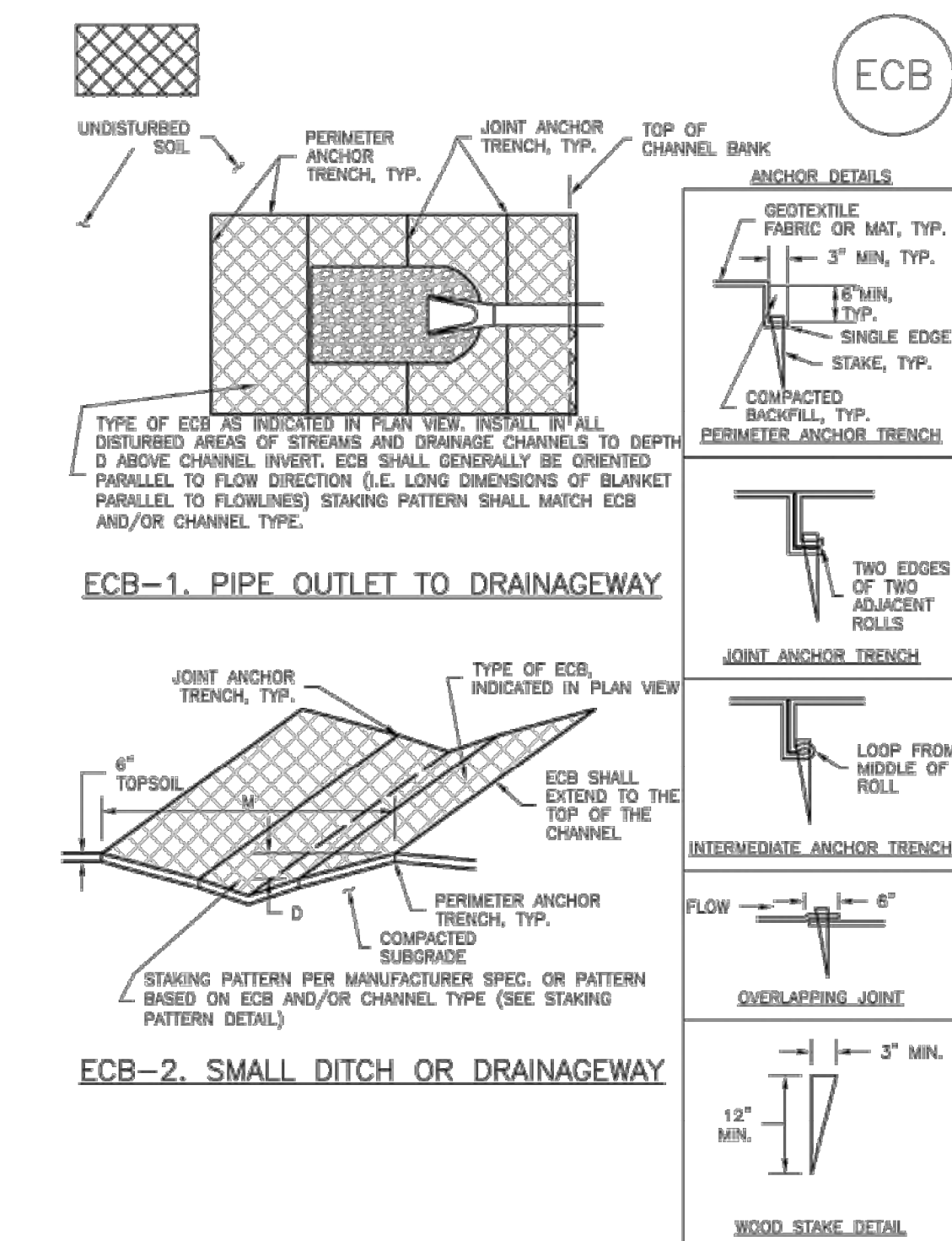
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RECP-9

EC-6 Rolled Erosion Control Products (RECP)

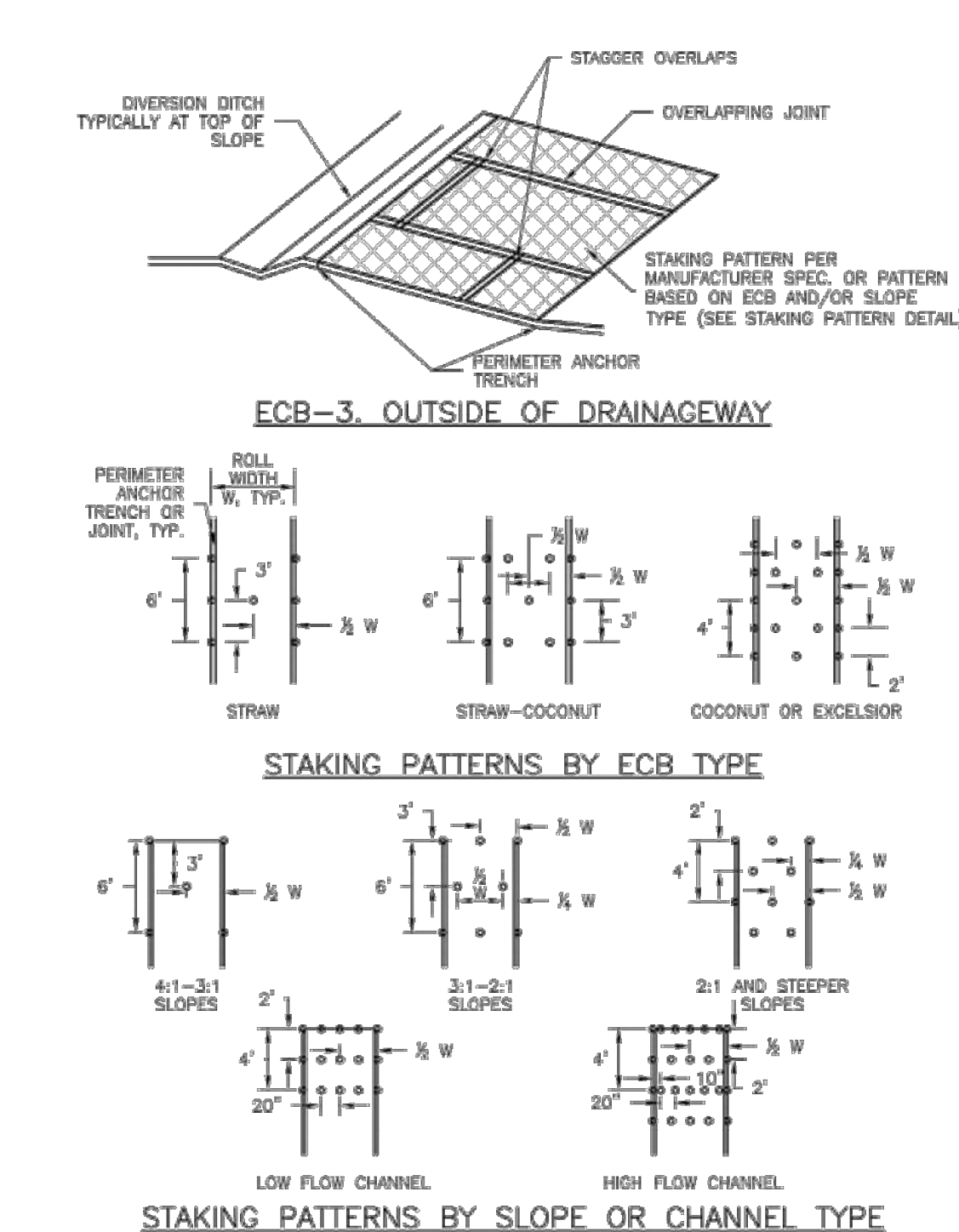


RECP-6

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Rolled Erosion Control Products (RECP) EC-6



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Urban Drainage and Flood Control District
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RECP-7

RECP-8

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RECP-9



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DETAIL GFCP

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DR. JD CH.

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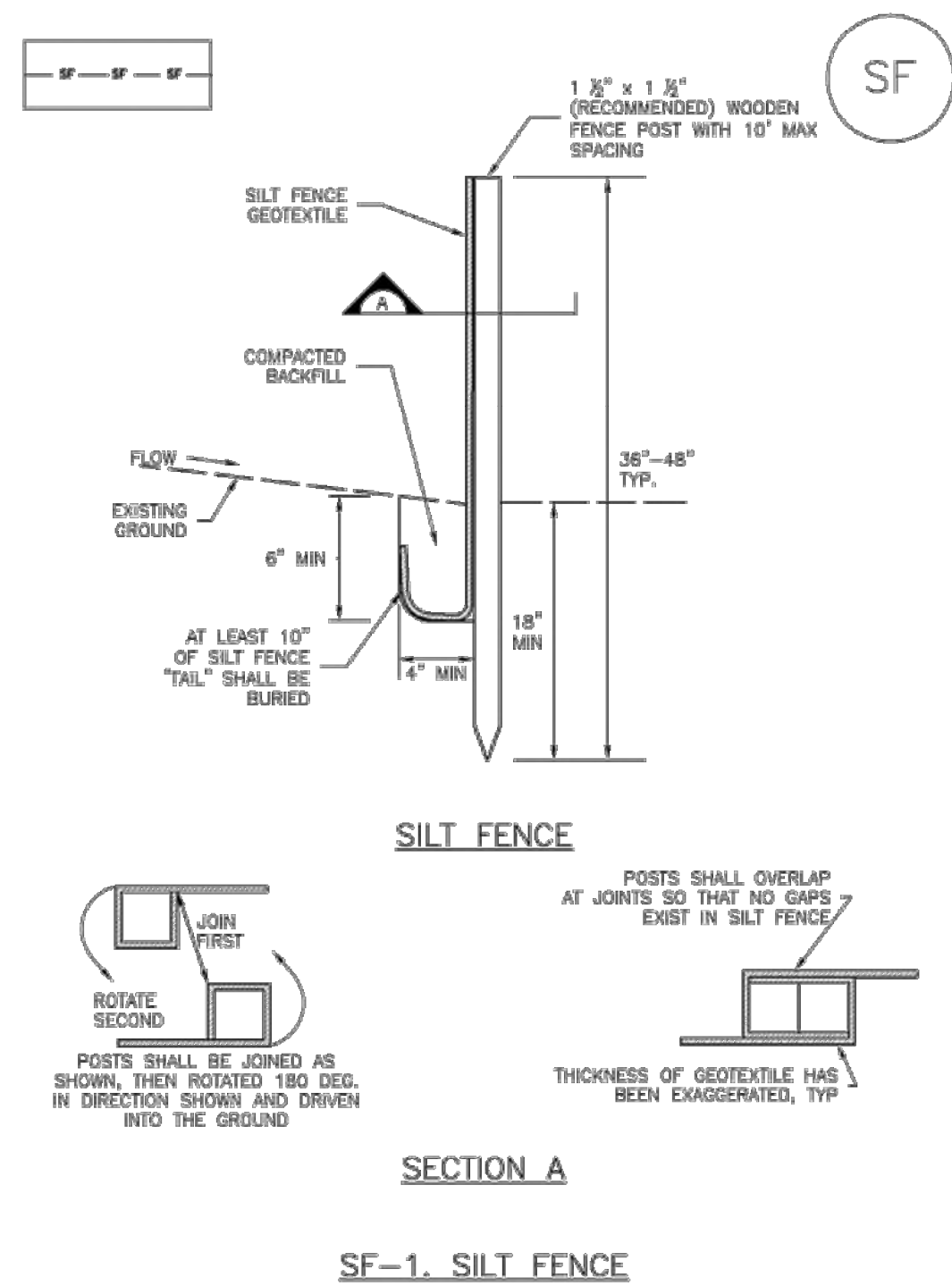
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Silt Fence (SF)

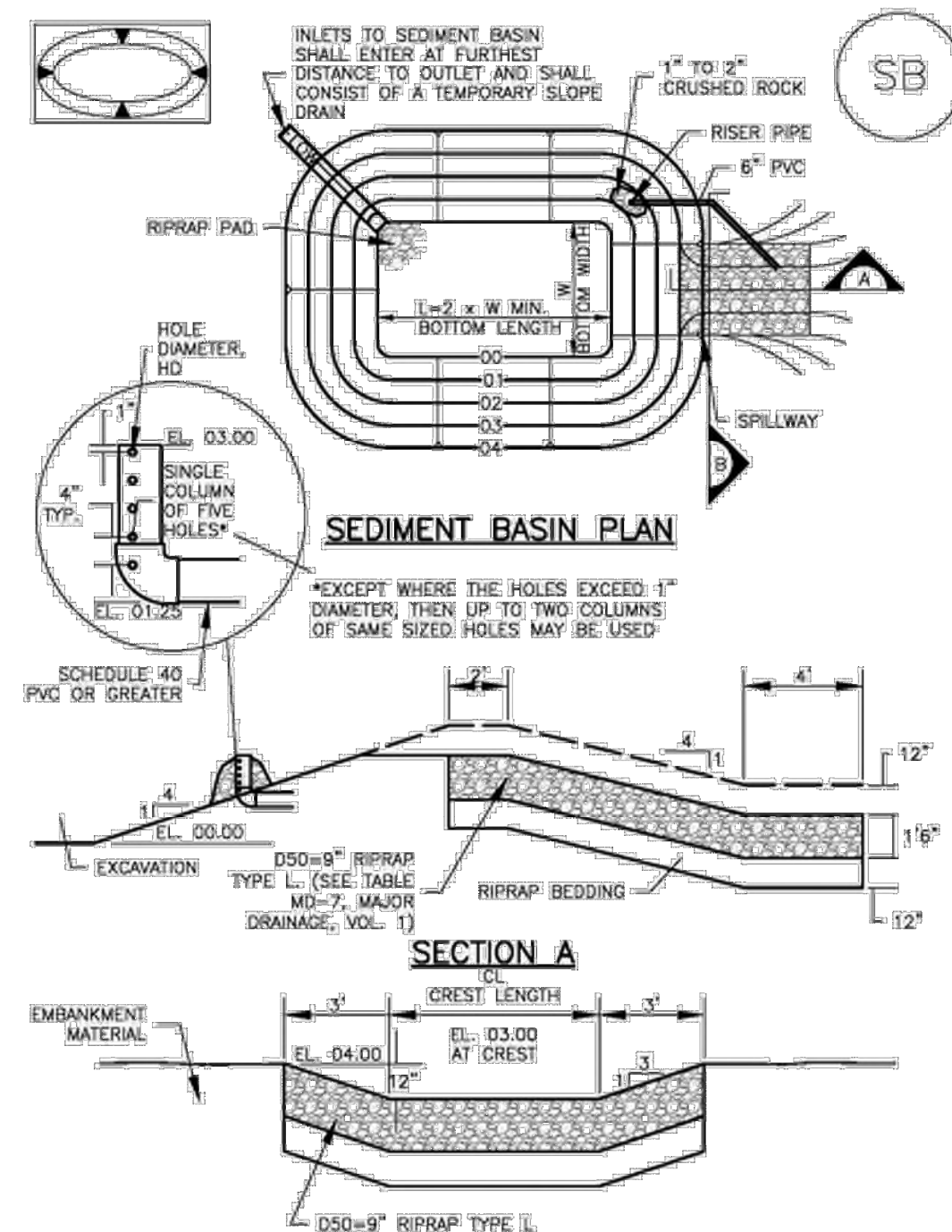
SC-1



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Sediment Basin (SB)

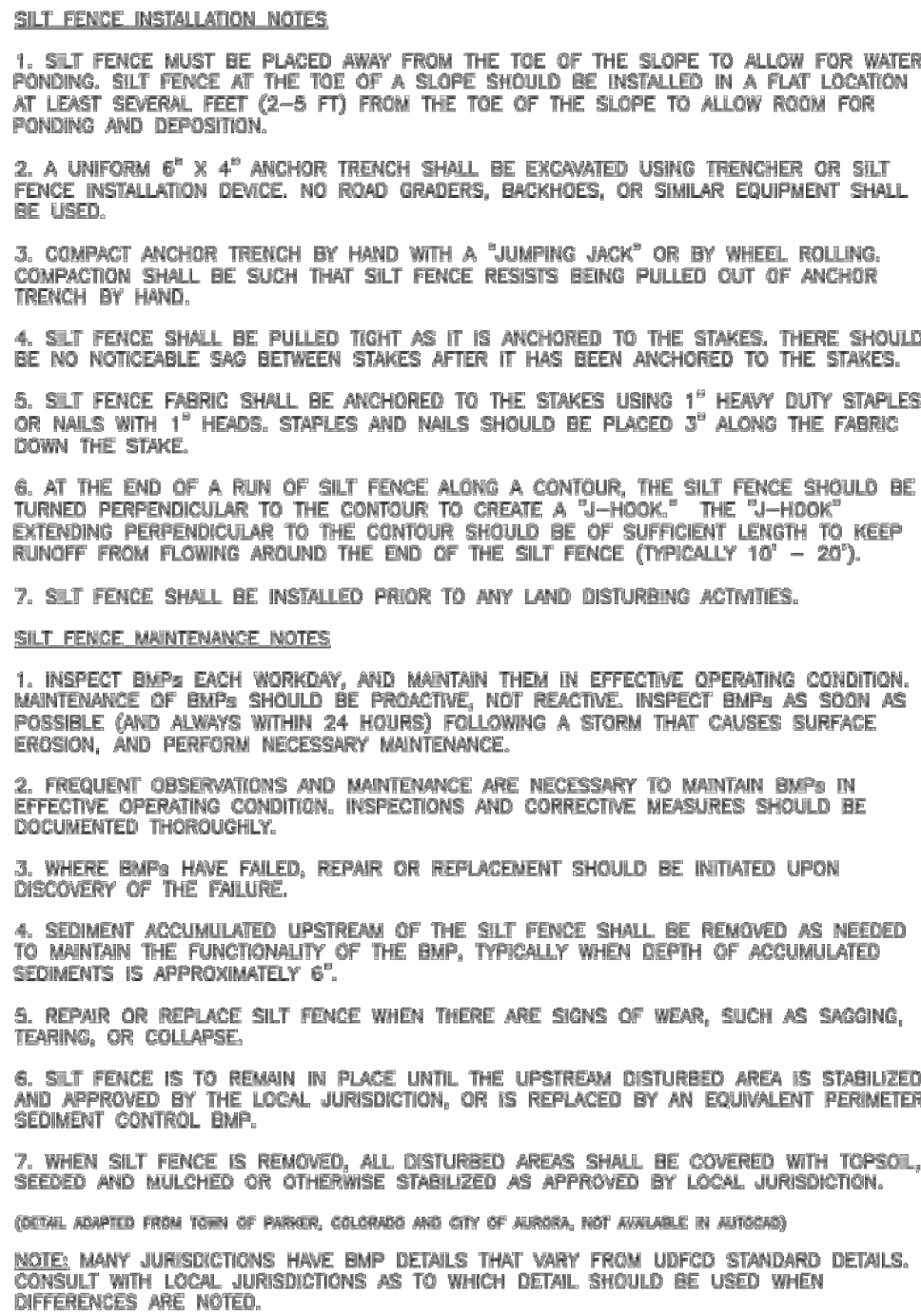
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SC-1

Silt Fence (SF)

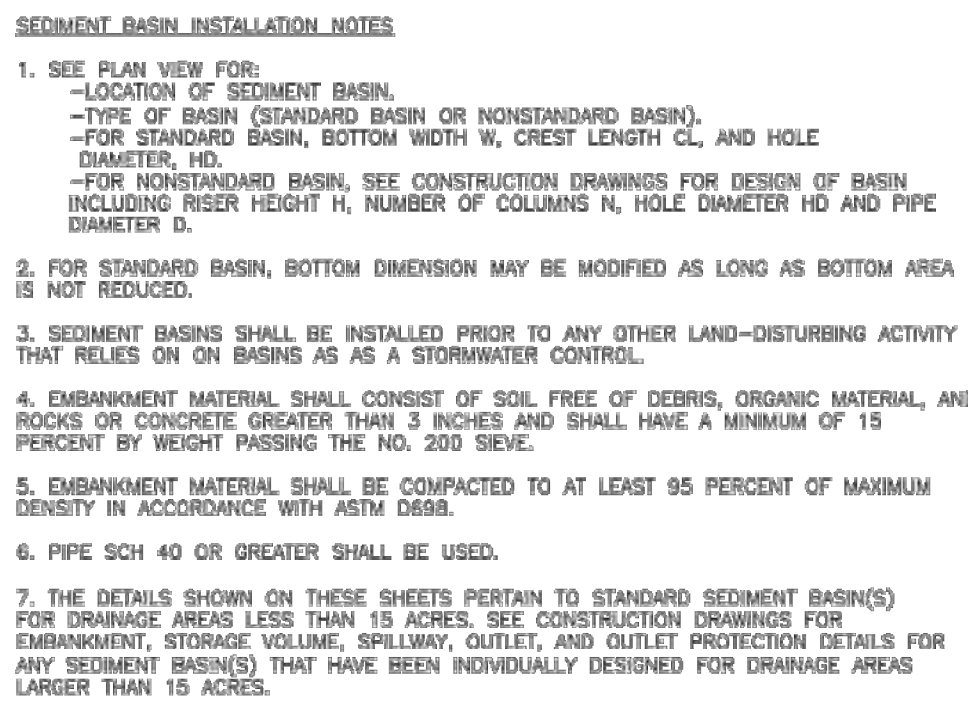


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SC-7

Sediment Basin (SB)

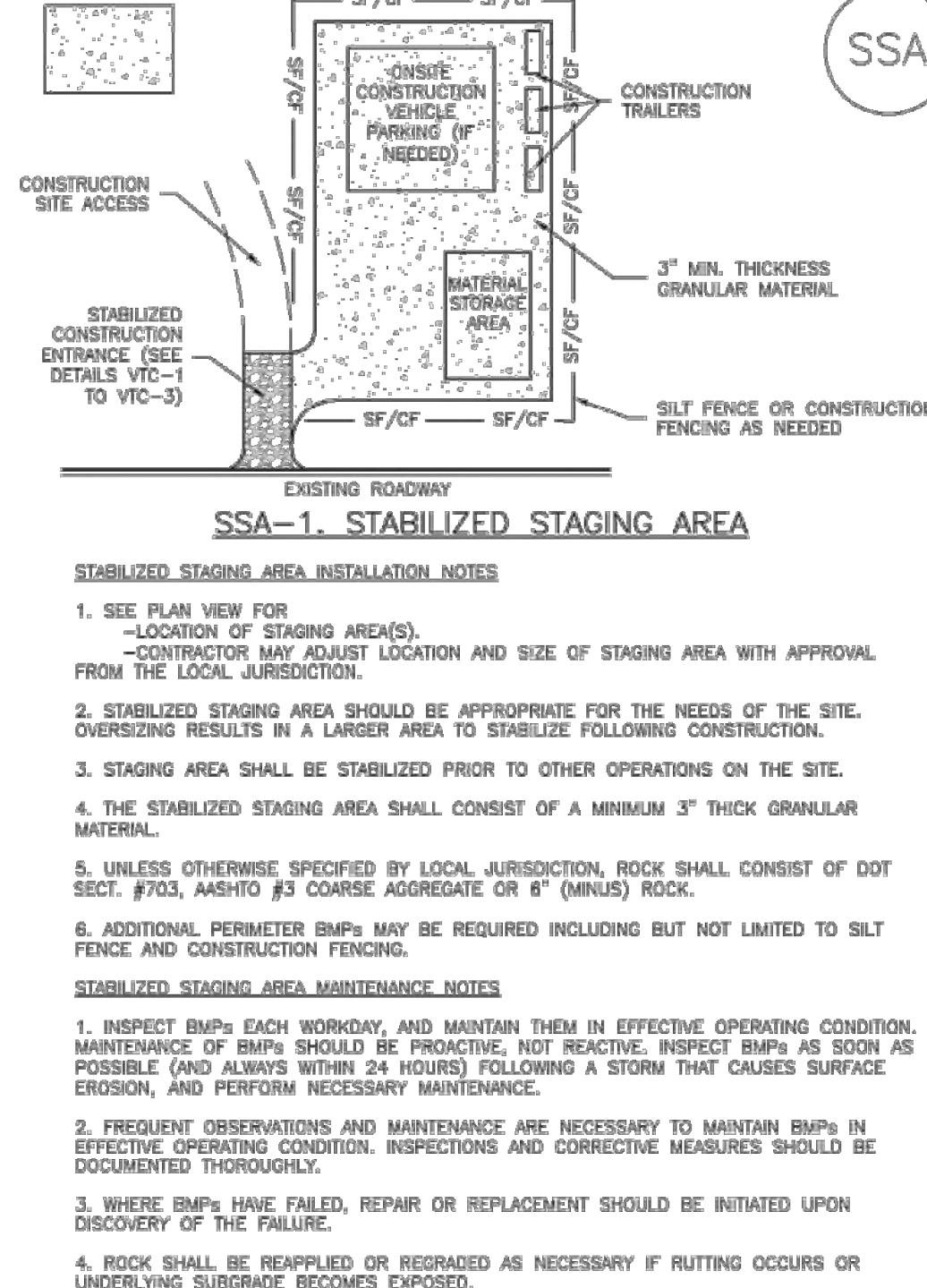
TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN				
Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)	
1	12 1/2	2	9/16	
2	21	3	1 1/8	
3	28	4	1 1/4	
4	33 1/2	5	1 1/2	
5	38 1/2	6	1 5/8	
6	43	7	1 3/4	
7	47 1/2	8	1 7/8	
8	51	9	2	
9	55	10	2 1/8	
10	58 1/2	11	2 1/4	
11	61	12	2 3/8	
12	64	13	2 1/2	
13	67 1/2	14	2 5/8	
14	70 1/2	15	2 3/4	
15	73 1/2	16	2 7/8	



SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Stabilized Staging Area (SSA)

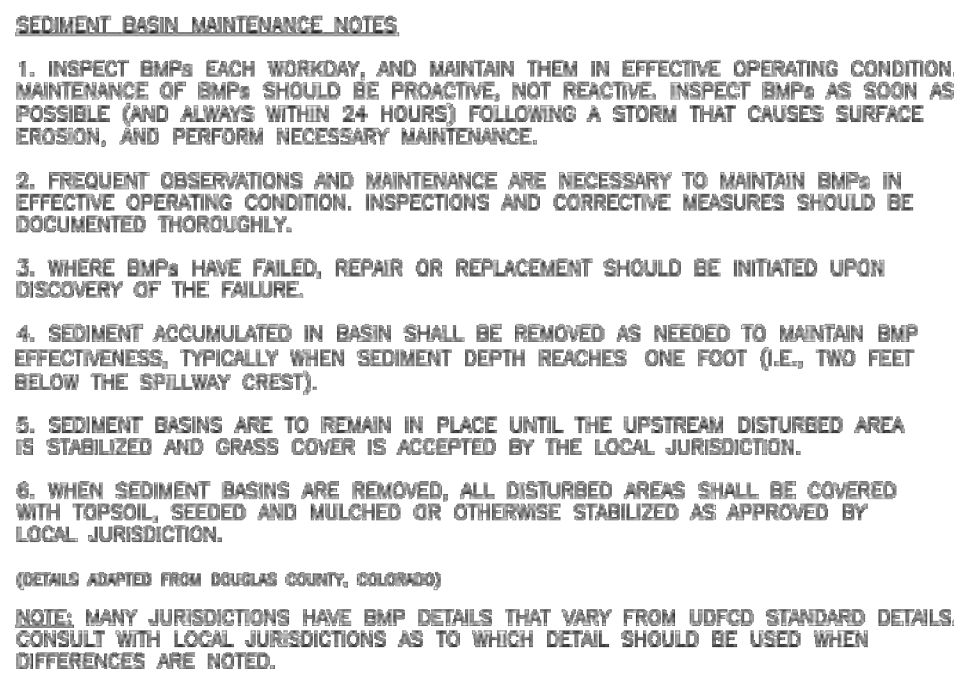
SM-6



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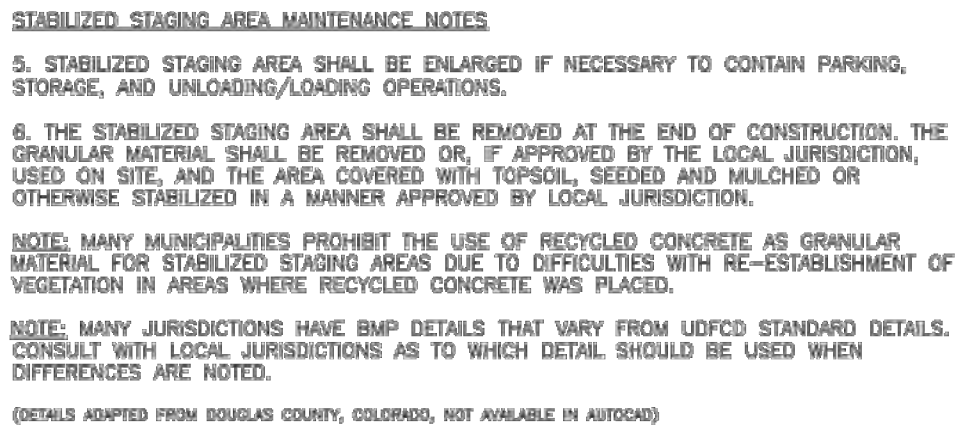
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SM-6

Stabilized Staging Area (SSA)



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