

**STANDARD NOTES FOR EL PASO COUNTY GRADING & EROSION PLAN:**

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION MEASURES ARE IMPLEMENTED. TEMPORARY CONSTRUCTION CONTROL MEASURES MUST BE REMOVED PRIOR TO PERMIT CLOSEOUT.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. ALL EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY THE VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG-ROCKY MOUNTAIN GROUP, DATED OCTOBER 8, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WOOD-PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

# CHALLENGER HOMES FALCON HIGHLANDS SOUTH

SITUATED IN SECTION 12, TOWNSHIP 13 SOUTH,  
RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN,  
COUNTY OF EL PASO, STATE OF COLORADO

## GRADING & EROSION CONTROL PLANS



VICINITY MAP  
1" = 1,000'

**LEGAL DESCRIPTION:**

A PORTION OF SECTION 12, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

**PROJECT DESCRIPTION:**

378 SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT OVER 125.5 ACRES.

**FLOODPLAIN STATEMENT:**

THE SUBJECT PROPERTY IS NOT LOCATED IN A DESIGNATED FLOODPLAIN AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP 08041C0561G, EFFECTIVE DECEMBER 7, 2018.

**NOTE:**

DETENTION AND WATER QUALITY ARE PROVIDED IN THE EXISTING DOWNSTREAM WATER QUALITY AND DETENTION POND FACILITIES, POND 1, 2 & WU, LOCATED EAST OF THE PROPOSED DEVELOPMENT, NORTHWEST OF HIGHWAY 24.

**DESCRIPTION OF CONSTRUCTION ACTIVITIES:**

**ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:**

SEPTEMBER 2023

**EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:**

AUGUST 2024

**TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED, OR GRADED:**

APPROXIMATELY 115 ACRES

**RECEIVING WATERS:**

ULTIMATE RECEIVING WATER IS SAND CREEK DRAINAGE BASIN AND FALCON DRAINAGE BASIN.

**SOIL TYPE:**

THE SITE IS UNDERLAIN BY BLAKELAND-FLUVAQUENTIC HAPLAQUOILS, HYDROLOGIC SOIL GROUP A.

**OWNER:**  
CHALLENGER HOMES  
8605 EXPLORER DRIVE  
STE. 250  
COLORADO SPRINGS, CO 80920  
(719) 598-5192  
CONTACT: JIM BYERS

**SURVEYOR:**  
ATWELL, LLC  
143 UNION BLVD.  
STE. 700  
LAKEWOOD, CO 80228  
(303) 462-1100  
CONTACT: KENNETH SCHRAMM

**WOODMEN HILLS METROPOLITAN DISTRICT:**  
8046 EASTVILLE ROAD  
FALCON, CO 80831  
(719) 495-2500  
CONTACT: RYAN MANGINO

**CIVIL ENGINEER:**  
ATWELL, LLC  
143 UNION BLVD.,  
SUITE 700  
LAKEWOOD, CO 80228  
(303) 462-1100  
CONTACT: DAN MADRUGA, PE

**EL PASO COUNTY:**  
3275 AKERS DRIVE  
COLORADO SPRINGS, CO 80922  
(719) 520-6460  
CONTACT: ELIZABETH NIJKAMP

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER
2	INITIAL GECP
3	INITIAL GECP
4	INITIAL GECP
5	INITIAL GECP
6	INTERIM GECP
7	INTERIM GECP
8	INTERIM GECP
9	INTERIM GECP
10	FINAL GECP
11	FINAL GECP
12	FINAL GECP
13	FINAL GECP
14	DETAIL GECP
15	DETAIL GECP
16	DETAIL GECP
17	DETAIL GECP

**GENERAL NOTES:**

- EXISTING VEGETATION OF SITE IS APPROXIMATELY 97.0 PERCENT CONSISTING OF NATIVE GRASSES AND WEEDS.
- CONCLUSIONS FROM SOILS/GEOTECHNICAL REPORT AND GEOLOGIC HAZARDS REPORT INCORPORATED IN GRADING DESIGN (SLOPES, EMBANKMENTS, MATERIALS, MITIGATION, ETC.)
- THERE ARE NO LOCATIONS OF ANY DEDICATED ASPHALT / CONCRETE BATCH PLANTS.
- THE USE OF CONSTRUCTION OFFICE TRAILERS REQUIRE PCD PERMITTING.
- NO DEWATERING OPERATIONS ARE ANTICIPATED AT THIS TIME. IF THE CONTRACTOR DISCOVERS GROUNDWATER, ALL CONSTRUCTION SHALL STOP UNTIL PROPER PROCEDURES APPROVED BY THE ENGINEER OF RECORD AND EL PASO COUNTY ARE PUT IN PLACE.
- THERE IS NO PROPOSED OFFSITE DISTURBANCE AND THERE ARE NO OFFSITE STORMWATER CONTROL MEASURES PROPOSED.
- THERE ARE NO PROPOSED RETAINING WALLS LOCATED WITHIN COUNTY RIGHT-OF-WAY.
- STRUCTURAL CONTROL MEASURES INCLUDE PONDS 1, 2, AND WU AND PROPOSED GRASSLINED SWALE.

**ENGINEER'S STATEMENT**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

*Dan Madruga* 3/12/24  
ENGINEER OF RECORD SIGNATURE DATE  
DANIEL MADRUGA, PE

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**OWNER'S STATEMENT**

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

*Jim Byers* 4/2/2024  
OWNER SIGNATURE DATE  
JIM BYERS

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**EL PASO COUNTY**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

COUNTY ENGINEER / ECM ADMINISTRATOR DATE  
JOSHUA PALMER, P.E.

**811**  
Know what's below.  
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:  
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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**ATWELL**  
www.atwell-group.com  
866.850.4200  
143 UNION BOULEVARD, SUITE 700  
LAKEWOOD, CO 80228  
303.462.1100

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CHALLENGER HOMES  
8605 EXPLORER DRIVE  
SUITE 250  
COLORADO SPRINGS, CO 80920  
719-598-5192  
JIM BYERS

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

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DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	03/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - DJM
E	5th SUBMITTAL TO EPC	03/06/2024 - DJM

REVISIONS

COUNTY FILE NO.:  
PUDSP-22-005

DR: JD CH:  
P.M. RDL

JOB: 21005234  
SHEET NO. 1

CAD FILE: 21005234-GECP-COVER-SHEET.DWG





Know what's below.  
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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CHALLENGER HOMES  
8605 EXPLORER DRIVE  
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JIM BYERS

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

CLIENT

DATE 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
E	5th SUBMITTAL TO EPC	03/08/2024 - RDL

REVISIONS

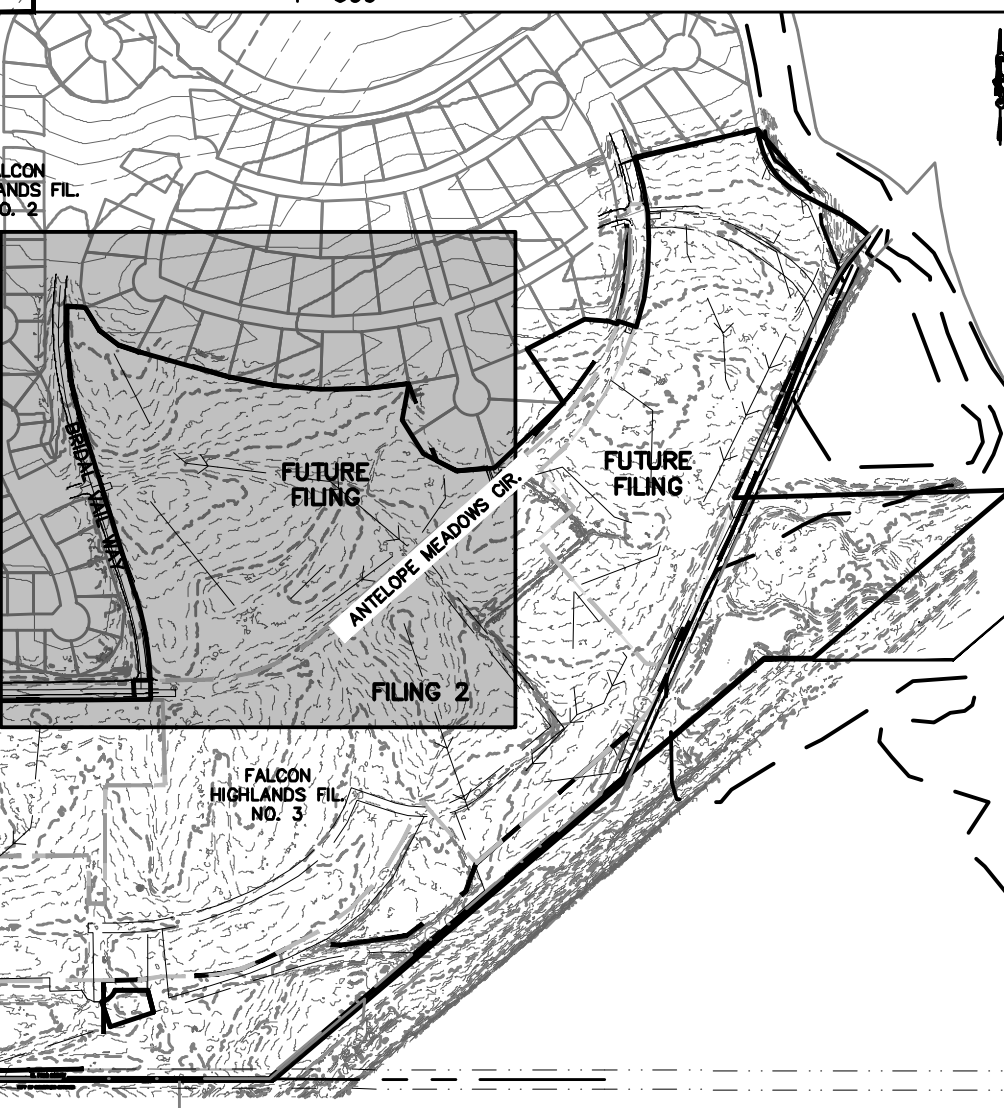
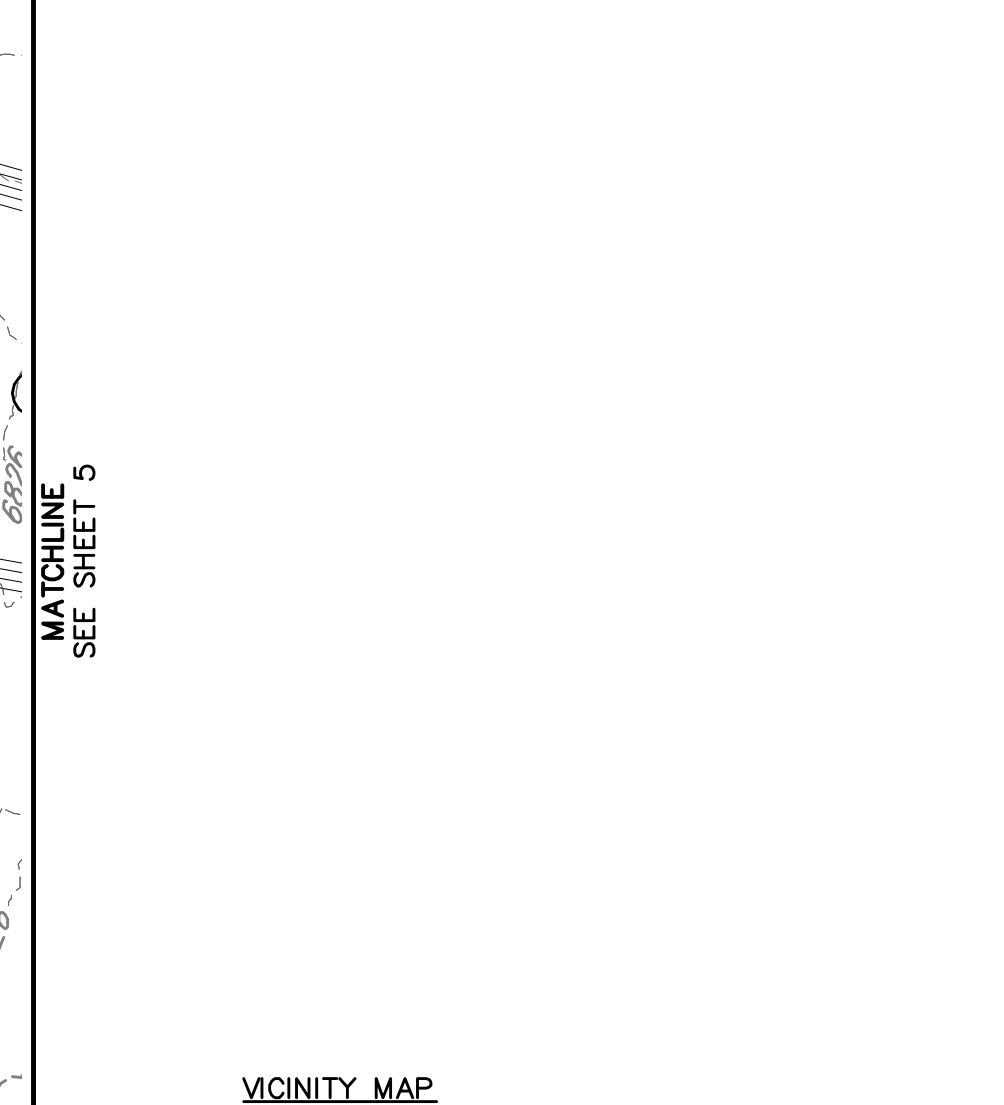


COUNTY FILE NO.: PUDSP-22-005

DR. JD CH. P.M. RDL

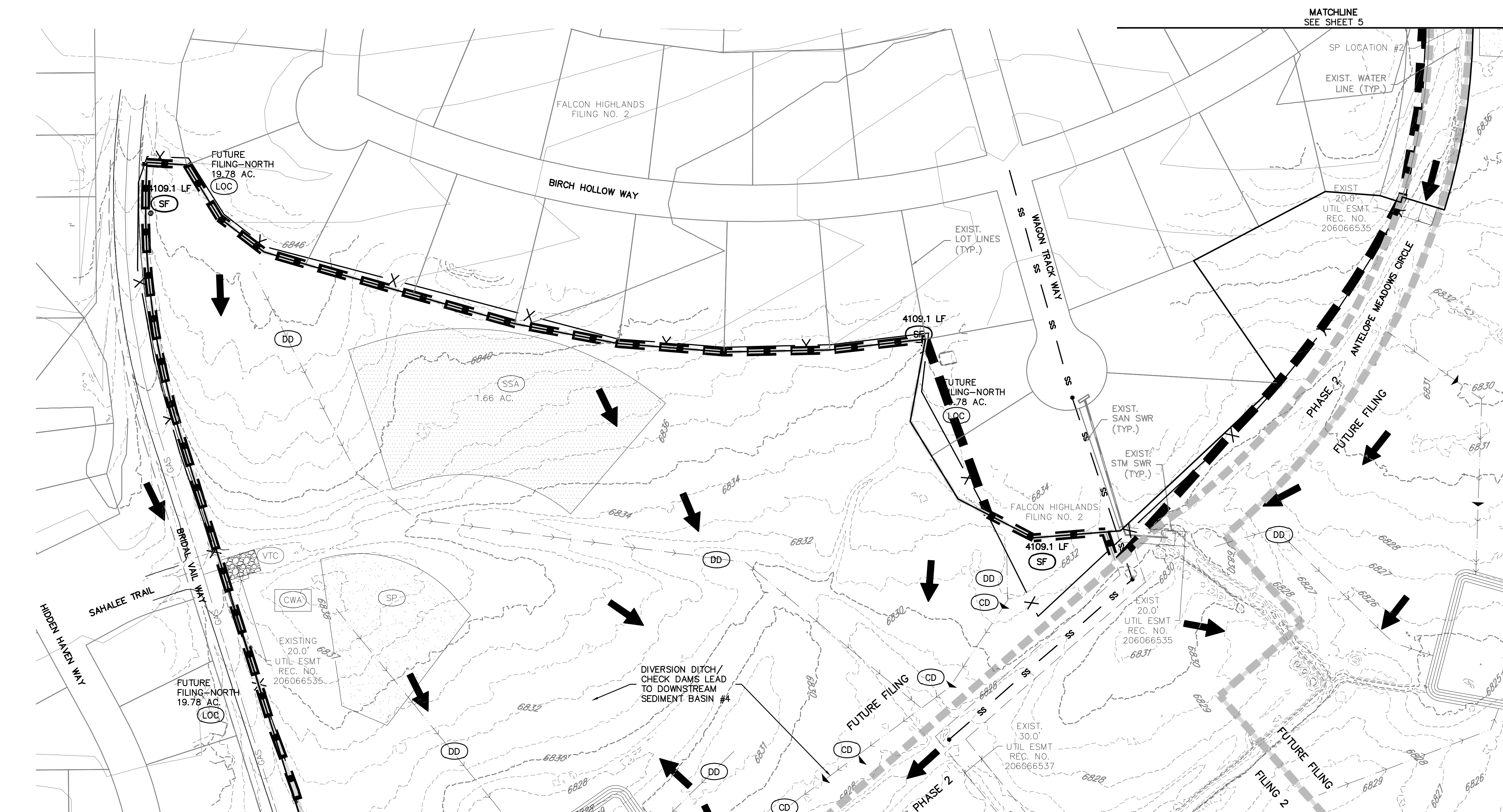
JOB 21005234  
SHEET NO. 2

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



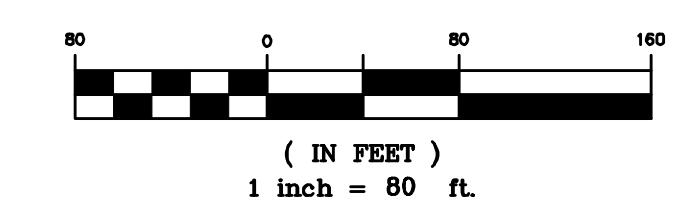
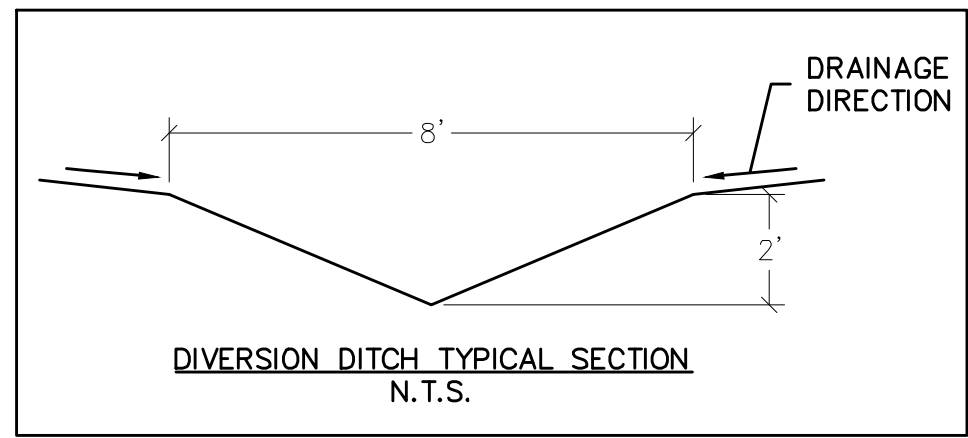
**BENCHMARK:**  
ELEVATIONS ARE BASED UPON SW COR SEC. 12, T13S, R65W, 6TH PM, FND. 3.25" ALUM. CAP. (ELEVATION: 6810.43=NAVD88).

**BASIS OF BEARINGS:**  
BEARINGS ARE BASED UPON THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 13 SOUTH, RANGE 65 WEST 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".



[Symbol]	PROPERTY BOUNDARY LINE
[Symbol]	EXISTING LOT LINES
[Symbol]	EXISTING CONTOURS
[Symbol]	INITIAL PHASE DRAINAGE FLOW ARROWS
[Symbol]	EXISTING ROW
[Symbol]	EXISTING UTILITY EASEMENT
[Symbol]	FILING 1 BOUNDARY
[Symbol]	FILING 2 BOUNDARY
[Symbol]	FUTURE FILING
[Symbol]	SECTION LINES
[Symbol]	SB OVERFLOW SPILLWAY PROTECTION

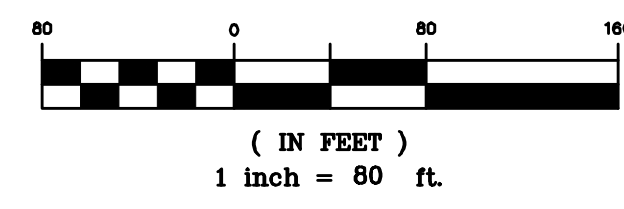
- GRADING AND EROSION CONTROL NOTES:**
- SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS HAS REACH 70% VEGETATION AND BEEN APPROVED BY THE EPC STORMWATER INSPECTOR.
  - INLET PROTECTION TO BE REMOVED AFTER DEVELOPMENT AND STABILIZATION OF LOTS.
  - VTC TO BE REMOVED UPON COMPLETION OF PAVING OPERATIONS.
  - SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
  - SHADED BMP'S WERE INSTALLED IN INITIAL OR INTERIM STAGES AND SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
  - THE LIMITS OF CONSTRUCTION / DISTURBANCE SHOWN ARE FOR ALL FILINGS. IT IS THE INTENTION TO PERMANENTLY STABILIZE FUTURE FILINGS 3 AND 4 TO HAVE TEMPORARY BMP'S REMOVED.



DATE PLOTTED: 03/14/2022 10:58:11 AM

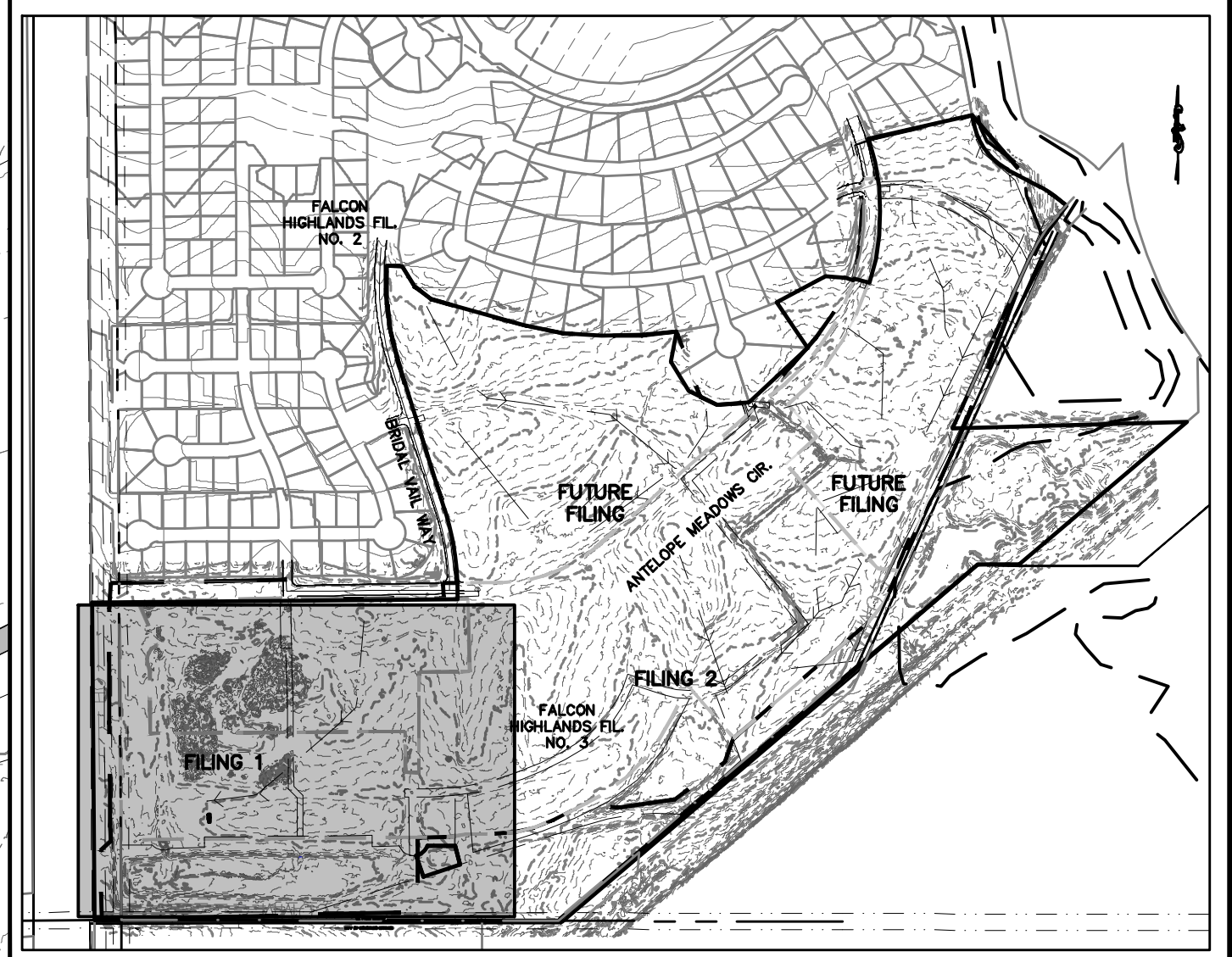
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GRADING AND EROSION CONTROL LEGEND	
(SF)	SILT FENCE
(IPO)	ON-GRADE INLET PROTECTION
(IPS)	SUMP INLET PROTECTION
(RRC)	CULVERT PROTECTION
(VTC)	VEHICLE TRACKING CONTROL
(CWA)	CONCRETE WASHOUT AREA
(SSA)	STABILIZED STAGING AREA
(SM)	SEEDING AND MULCHING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

- GRADING AND EROSION CONTROL NOTES:**
1. SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS HAS REACH 70% VEGETATION AND BEEN APPROVED BY THE EPC STORMWATER INSPECTOR.
  2. INLET PROTECTION TO BE REMOVED AFTER DEVELOPMENT AND STABILIZATION OF LOTS.
  3. VTC TO BE REMOVED UPON COMPLETION OF PAVING OPERATIONS.
  4. SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
  5. SHADED BMP'S WERE INSTALLED IN INITIAL OR INTERIM STAGES AND SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
  6. THE LIMITS OF CONSTRUCTION / DISTURBANCE SHOWN ARE FOR ALL FILINGS. IT IS THE INTENTION TO PERMANENTLY STABILIZE FUTURE FILINGS 3 AND 4 TO HAVE TEMPORARY BMP'S REMOVED.



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

LEGEND CONTINUED	
---	SECTION LINES
---	SB OVERFLOW SPILLWAY PROTECTION

**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".

Know what's below. Call before you dig.

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303.462.1100

---

**CHALLENGER HOMES**  
8605 EXPLORER DRIVE  
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

---

DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/31/2022 - RDL
C	3rd SUBMITTAL TO EPC	02/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
E	5th SUBMITTAL TO EPC	03/05/2024 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005

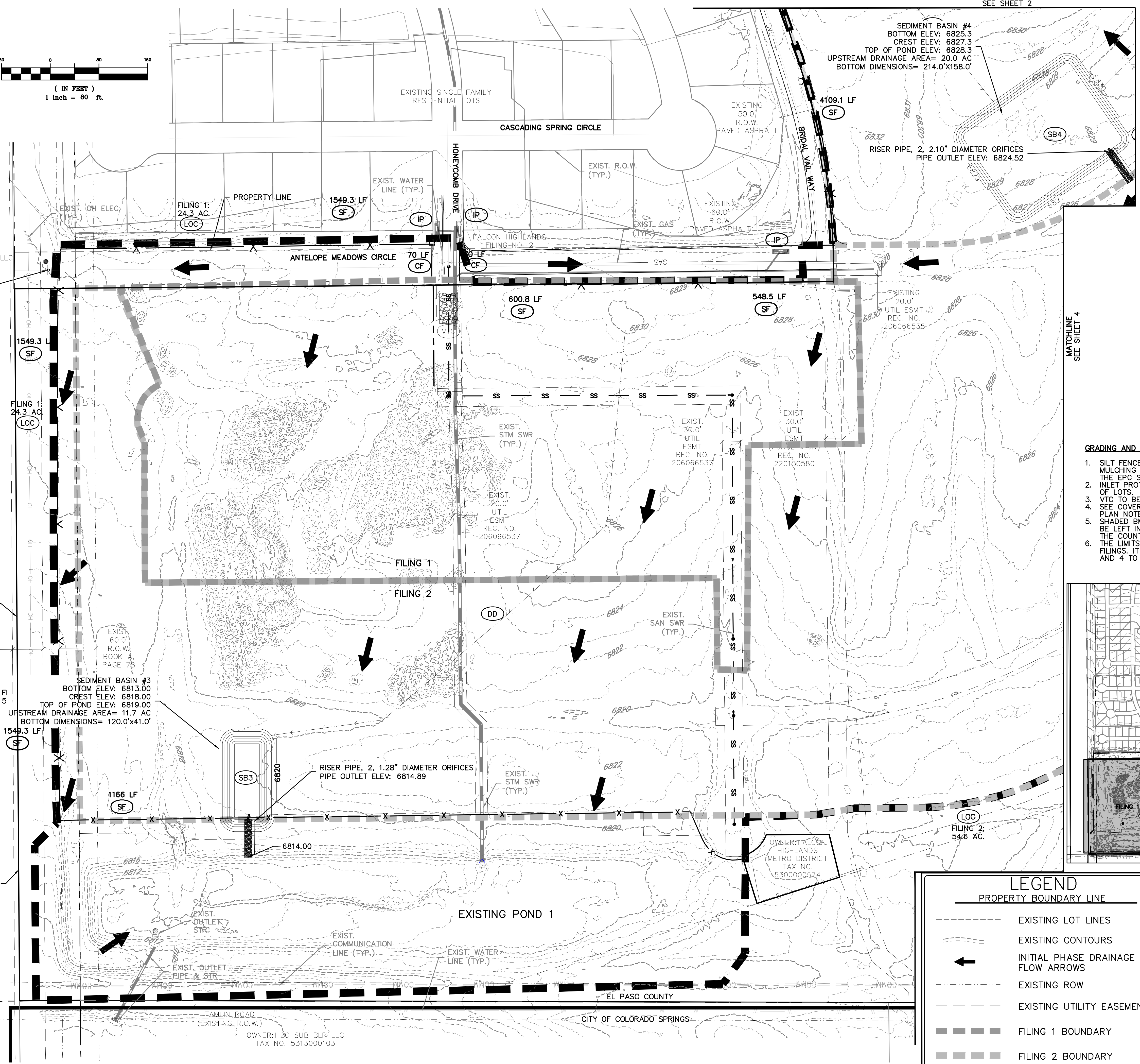
DR: JD CH.

P.M. RDL

JOB: 21005234

SHEET NO. 3

CAD FILE: 21005234-GECP-INITIAL.DWG



OWNER: WALTON COLORADO LLC  
TAX NO. 530000716  
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

OWNER: PUBLIC SERVICE CO OF COLORADO  
TAX NO. 5300000091

EL PASO COUNTY  
CITY OF COLORADO SPRINGS

OWNER: H2O SUB BLR LLC  
TAX NO. 5313000103



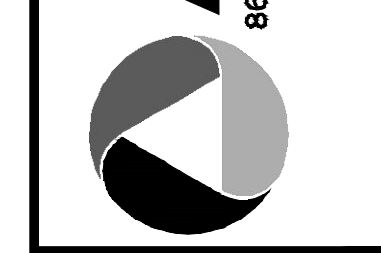


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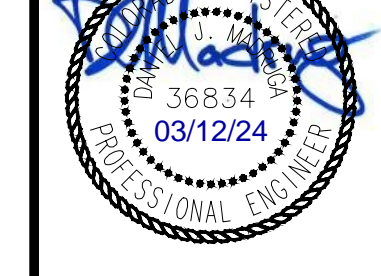
**CHALLENGER HOMES**  
8605 EXPLORER DRIVE  
SUITE 250  
COLORADO SPRINGS, CO 80920  
719-598-5192  
JIM BYERS

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

CLIENT: CHALLENGER HOMES  
DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022	- RDL
B	2nd SUBMITTAL TO EPC	08/17/2022	- RDL
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D	4th SUBMITTAL TO EPC	07/20/2023	- RDM
E	5th SUBMITTAL TO EPC	03/05/2024	- RDM

REVISIONS



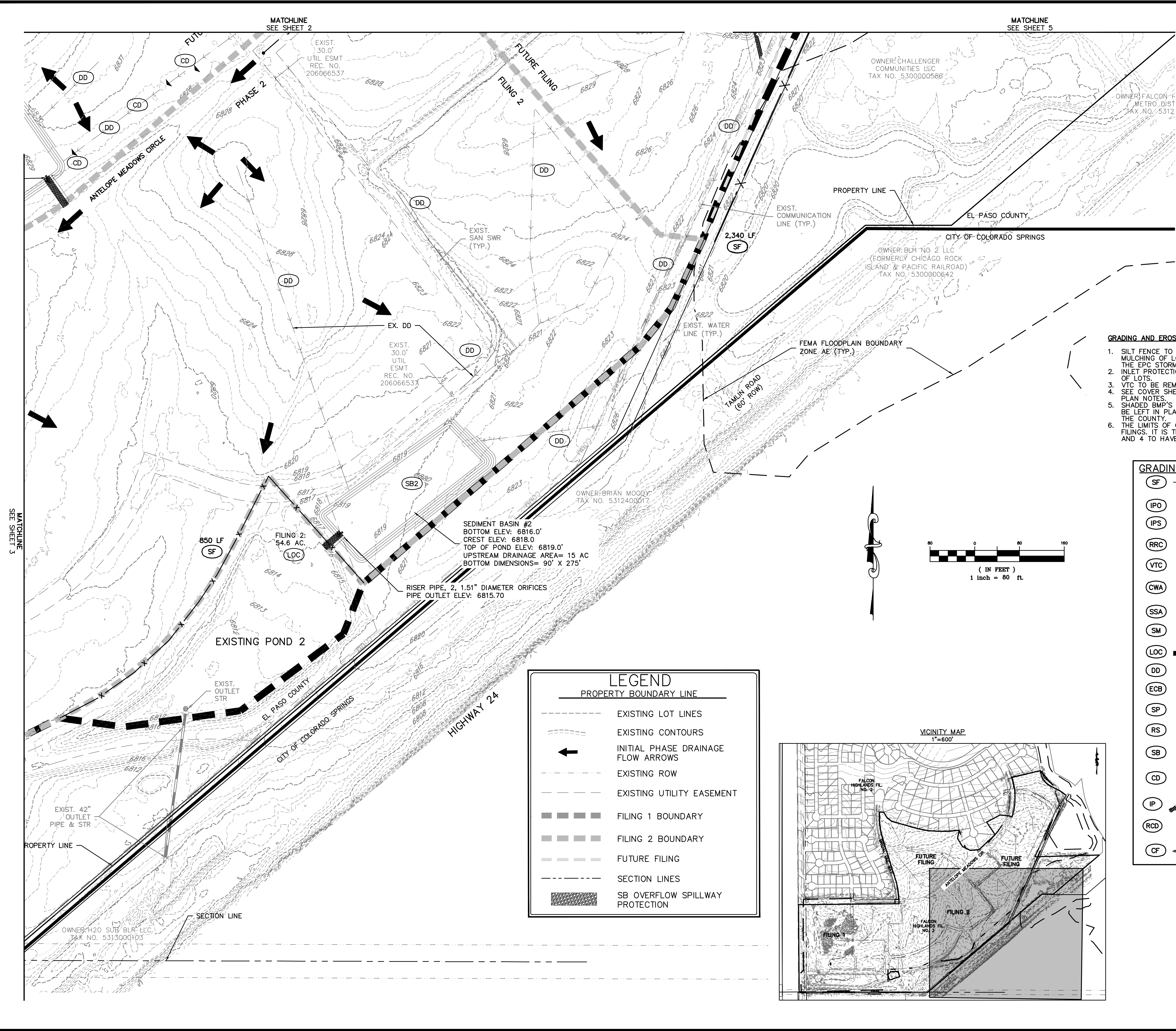
COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:

P.M. RDL

JOB: 21005234

SHEET NO. 4



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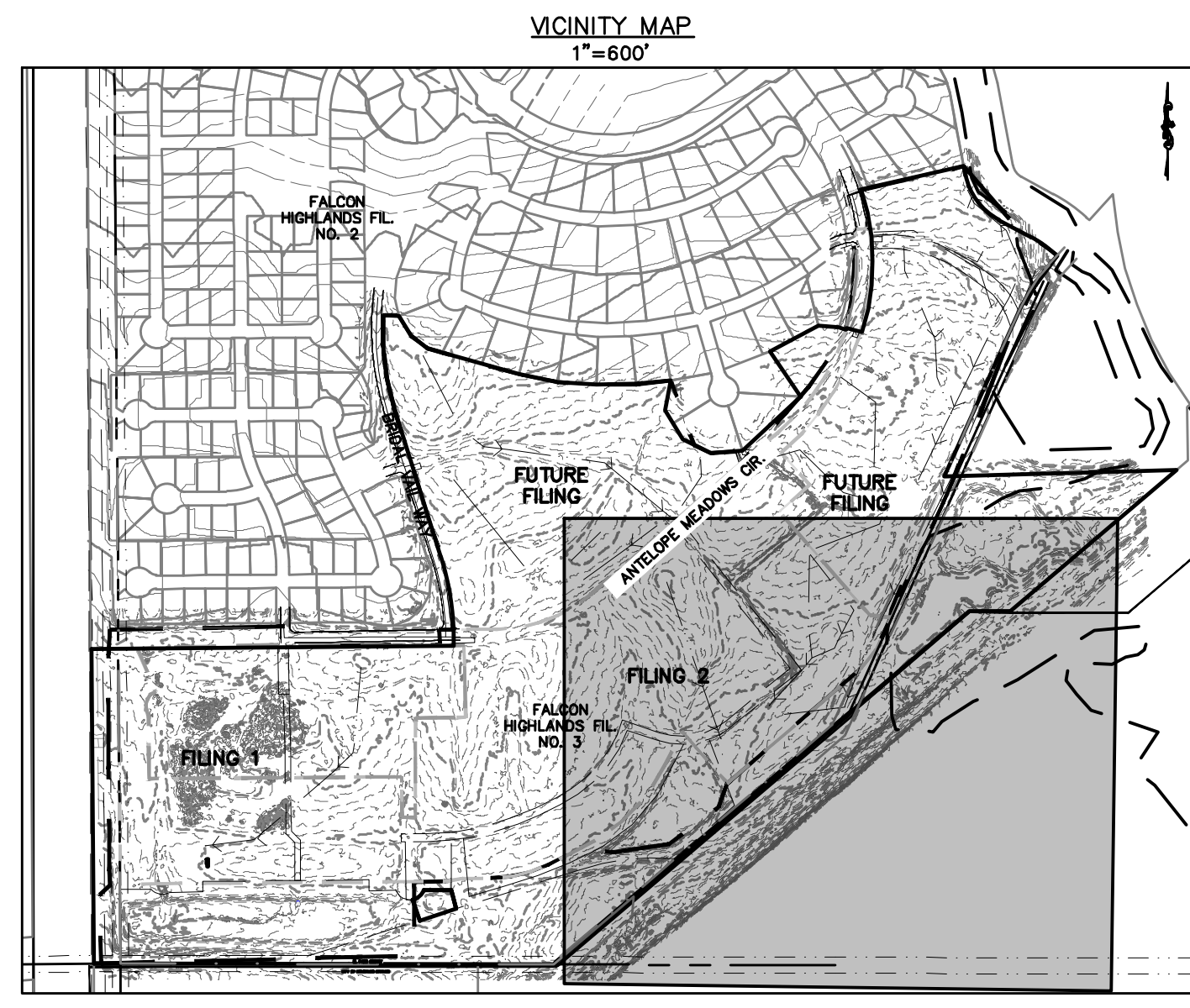
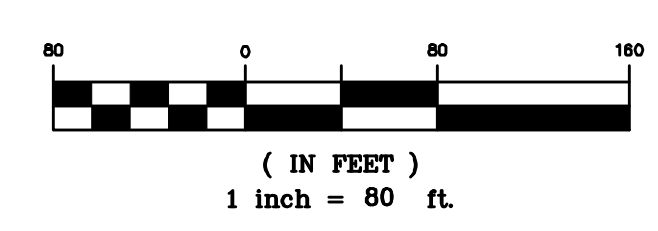
**GRADING AND EROSION CONTROL LEGEND**

(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
(IP)	INLET PROTECTION
(RCD)	REINFORCED CHECK DAM
(CF)	CONSTRUCTION FENCE

**LEGEND**

PROPERTY BOUNDARY LINE

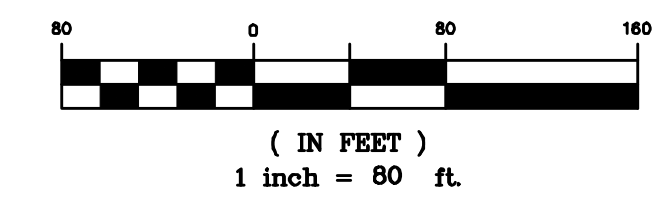
---	EXISTING LOT LINES
---	EXISTING CONTOURS
←	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
---	EXISTING UTILITY EASEMENT
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---	FILING 2 BOUNDARY
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---	SECTION LINES
---	SB OVERFLOW SPILLWAY PROTECTION



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**GRADING AND EROSION CONTROL LEGEND**

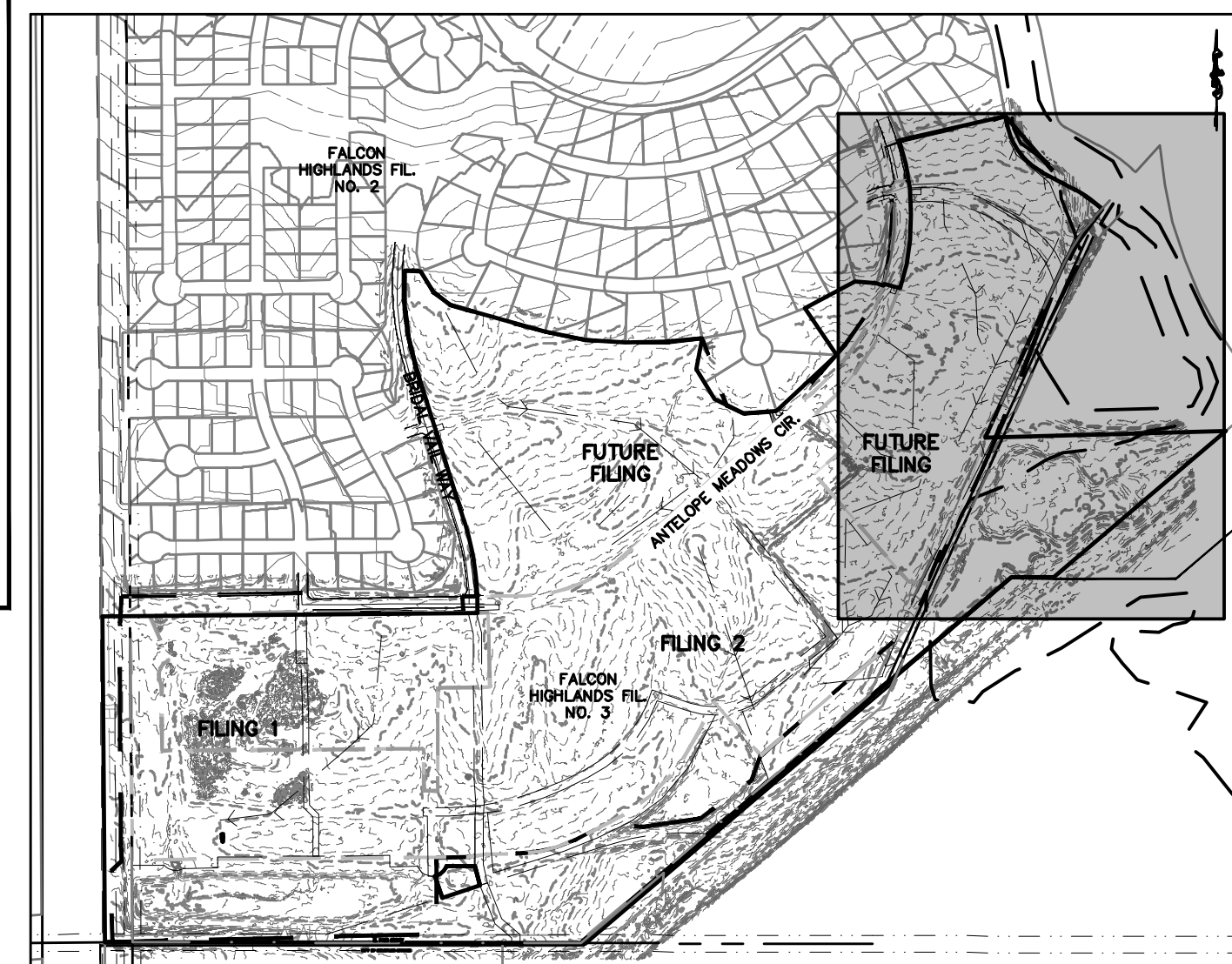
(SF)	X X	SILT FENCE
(IPO)		ON-GRADE INLET PROTECTION
(IPS)		SUMP INLET PROTECTION
(RRC)		CULVERT PROTECTION
(VTC)		VEHICLE TRACKING CONTROL
(CWA)		CONCRETE WASHOUT AREA
(SSA)		STABILIZED STAGING AREA
(SM)		SEEDING AND MULCHING
(LOC)		LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)		DIVERSION DITCH
(ECB)		EROSION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

**LEGEND**

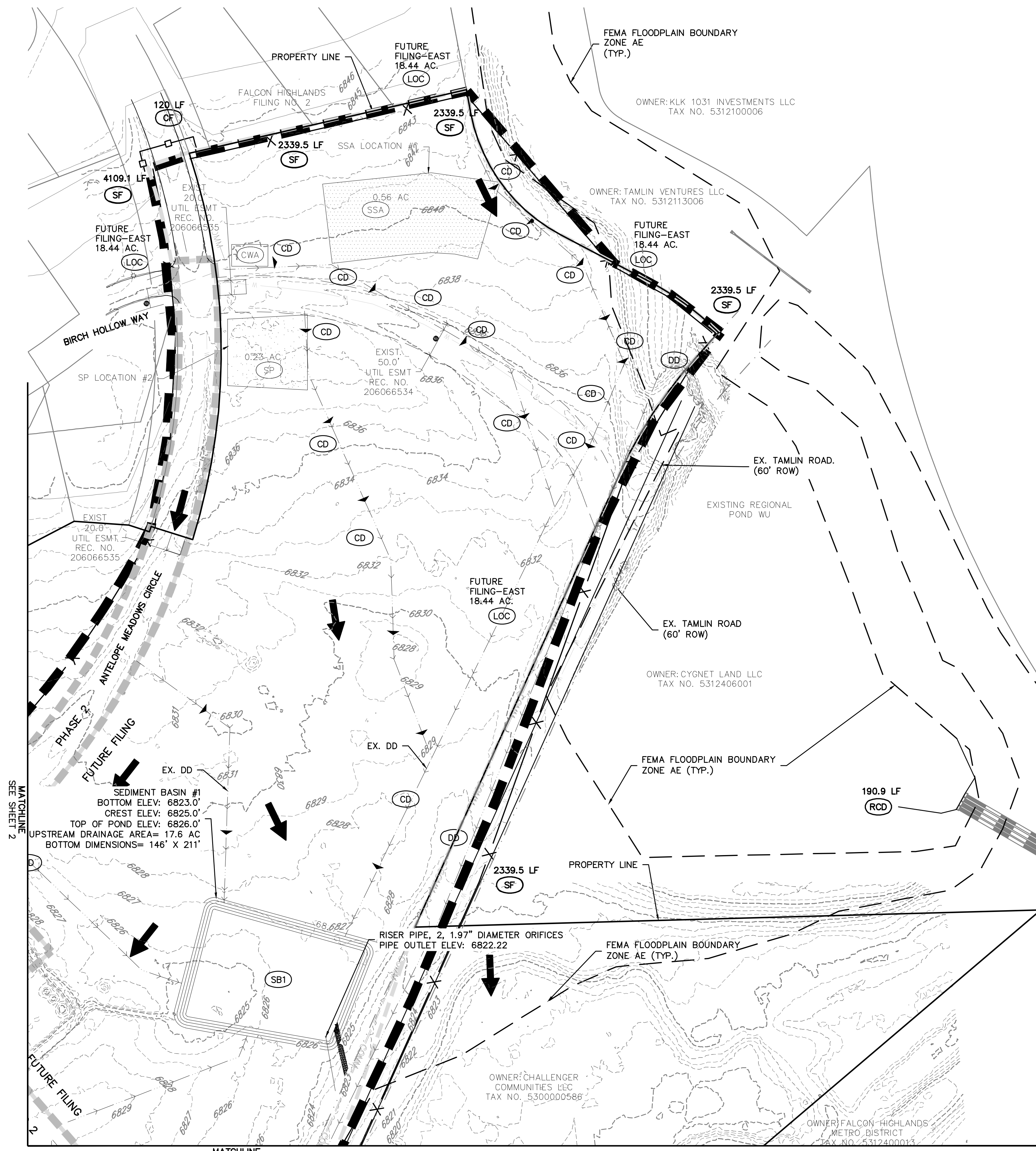
	PROPERTY BOUNDARY LINE
	EXISTING LOT LINES
	EXISTING CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	EXISTING ROW
	EXISTING UTILITY EASEMENT
	FILING 1 BOUNDARY
	FILING 2 BOUNDARY
	FUTURE FILING
	SECTION LINES
	SB OVERFLOW SPILLWAY PROTECTION

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VICINITY MAP  
1"=600'



MATCHLINE  
SEE SHEET 2

MATCHLINE  
SEE SHEET 4

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719-598-5192  
JIM BYERS

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

DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDM
E	5th SUBMITTAL TO EPC	03/05/2024 - RDM

REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH: [ ]

P.M. RDL

JOB: 21005234

SHEET NO. 5

CAD FILE: 21005234-GECP-INITIAL.DWG





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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  
 INTERIM 'GEP'

DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	02/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
E	5th SUBMITTAL TO EPC	03/05/2024 - RDL

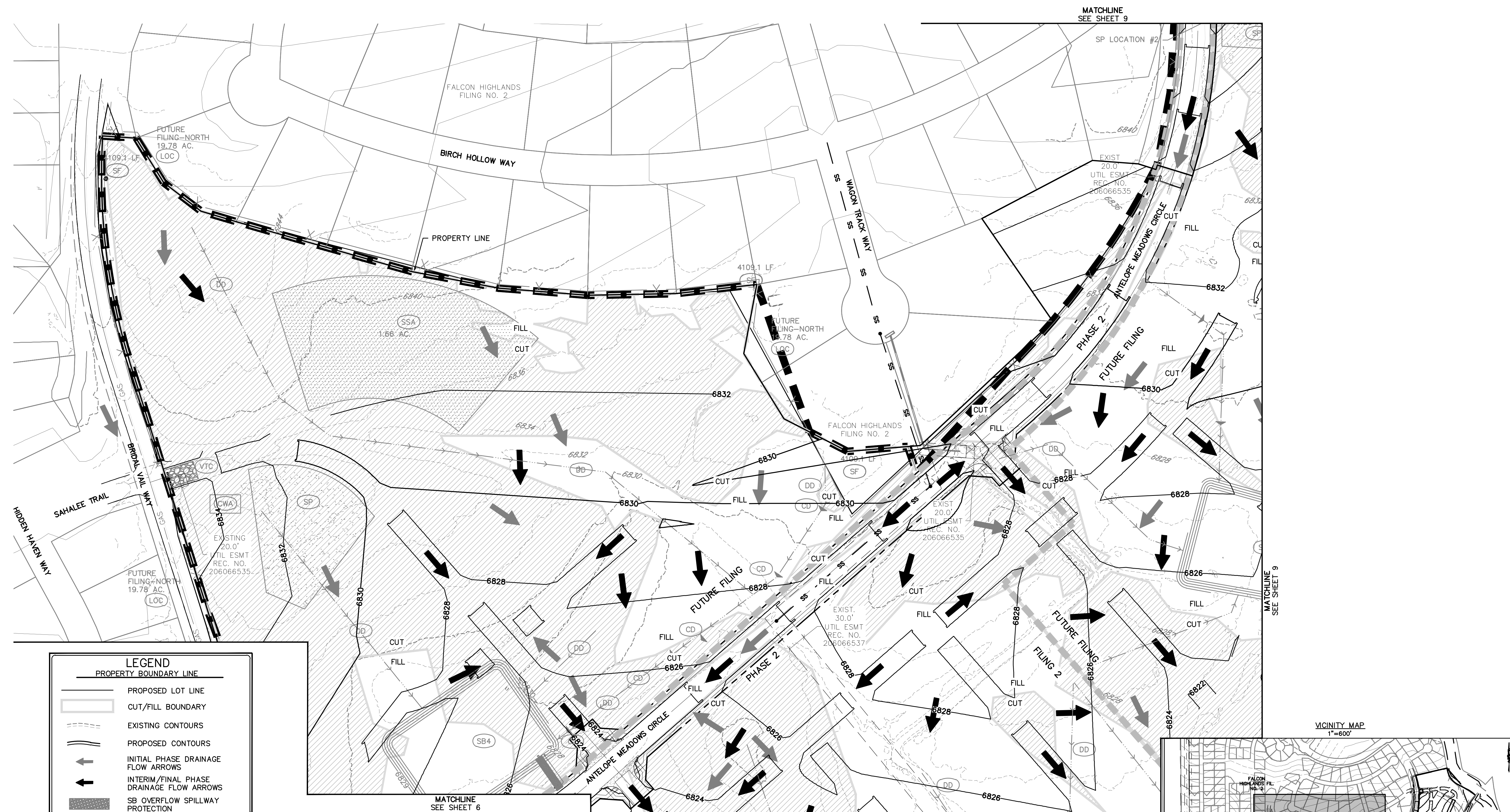
REVISIONS

*[Signature]*  
 36834  
 03/12/24  
 PROFESSIONAL ENGINEER

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:  
 P.M. RDL

JOB: 21005234  
 SHEET NO. 6



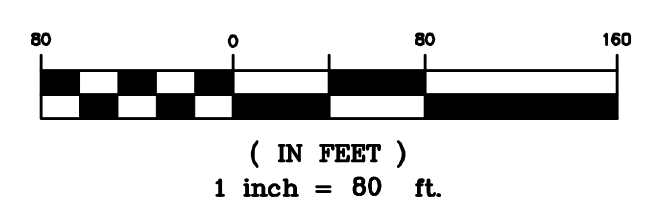
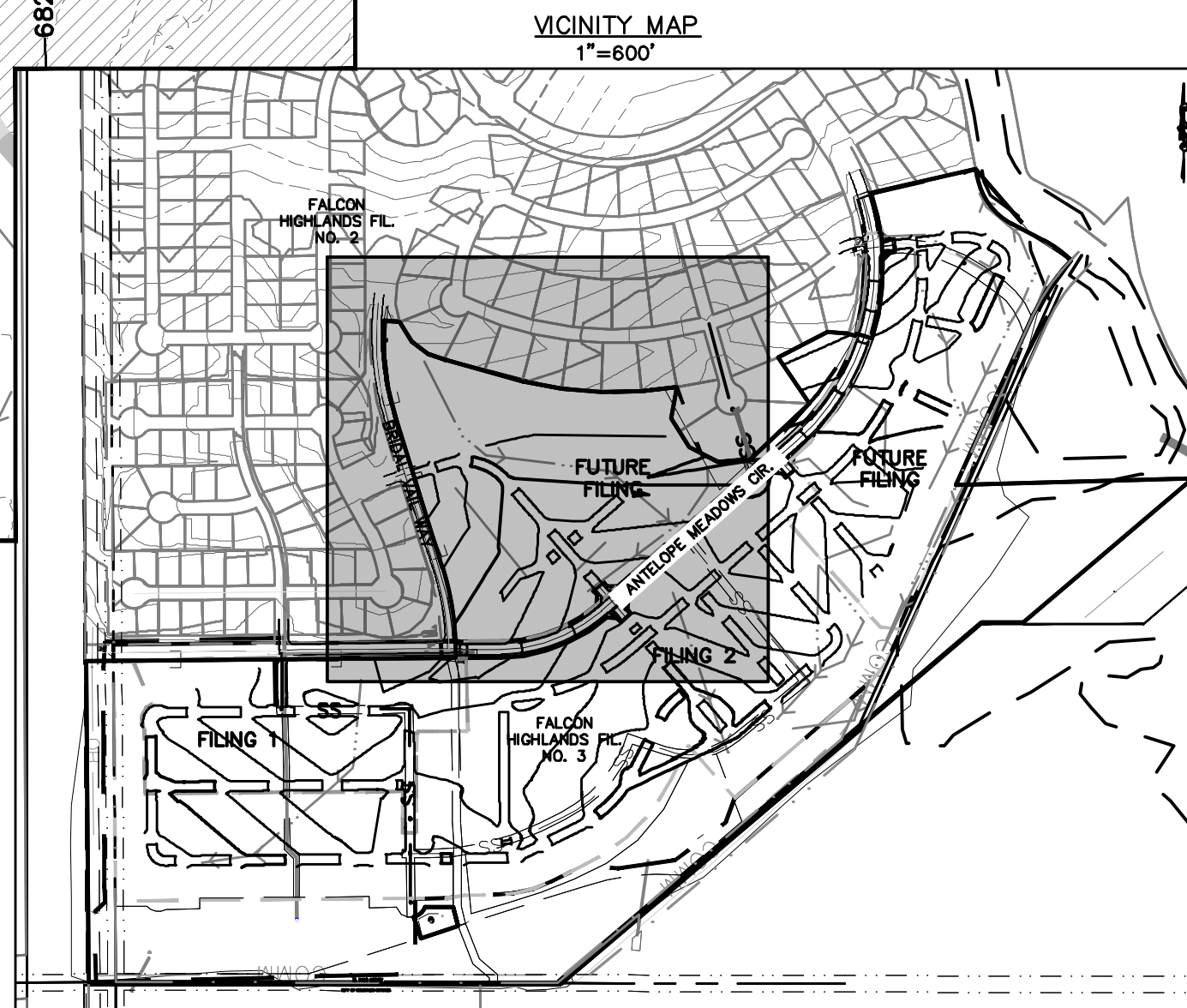
**LEGEND**

	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS
	SB OVERFLOW SPILLWAY PROTECTION

**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
	SF	SILT FENCE
	RRC	RRB FOR CULVERT PROTECTION
	IPS	SUMP INLET PROTECTION

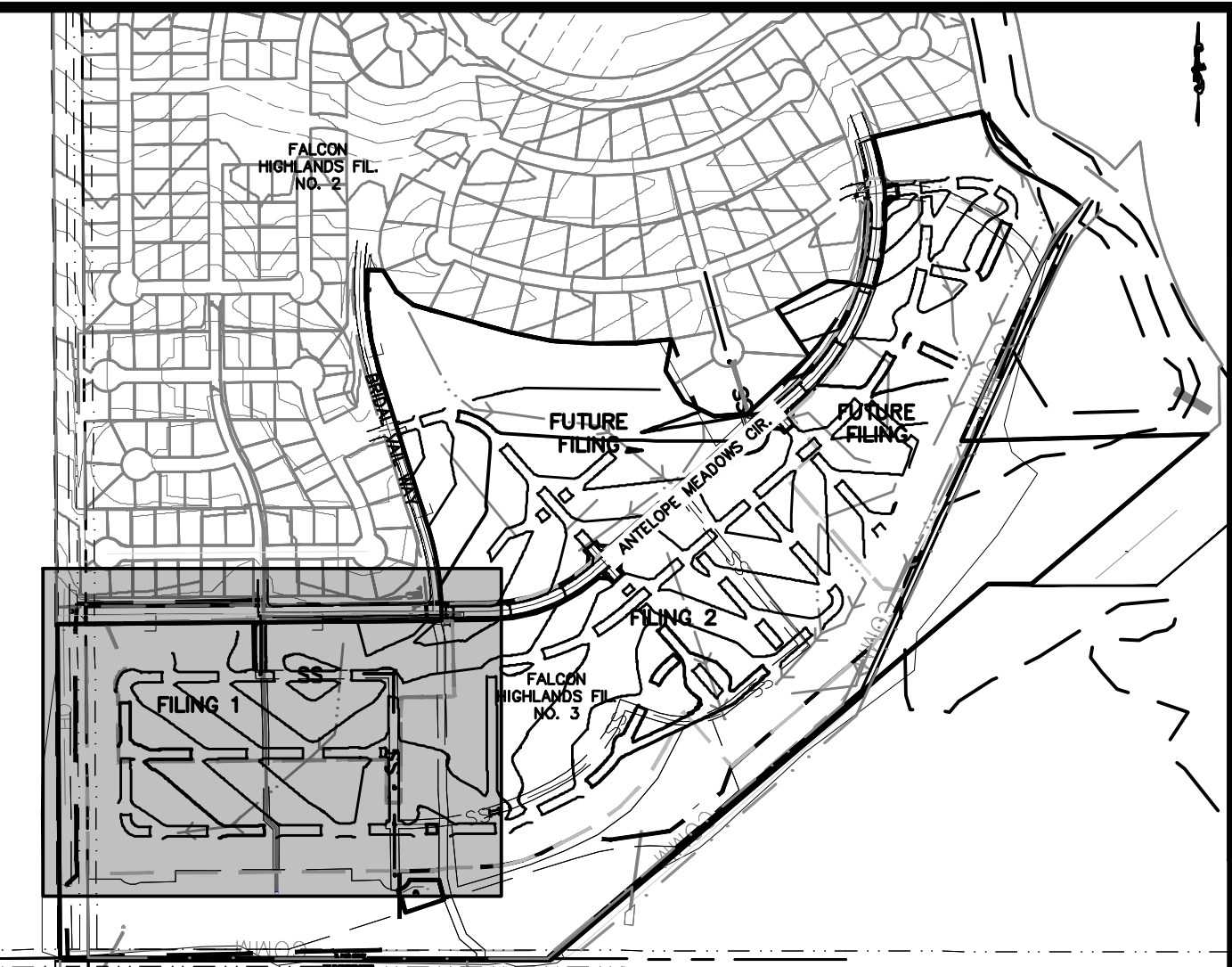
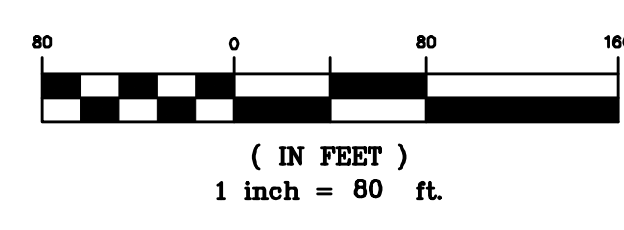
- GRADING AND EROSION CONTROL NOTES:**
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**811**  
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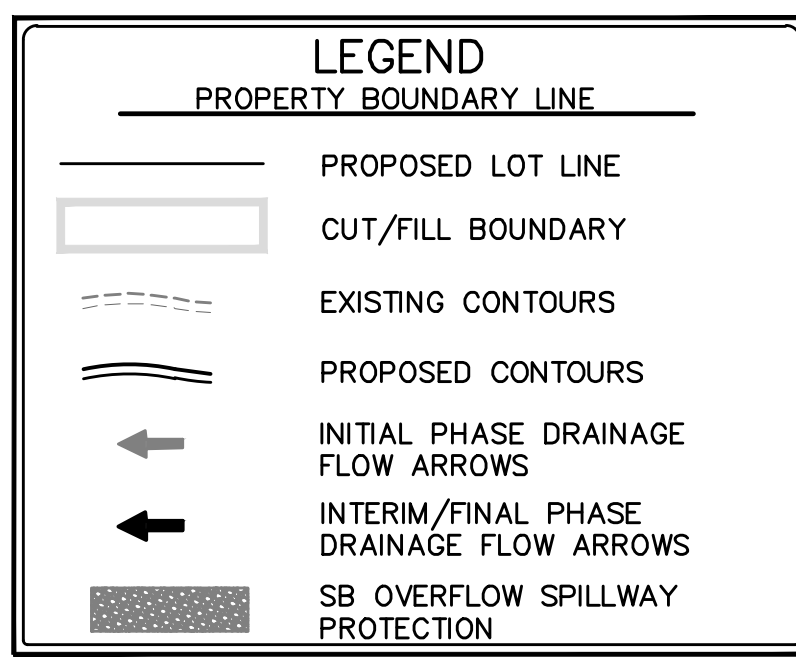
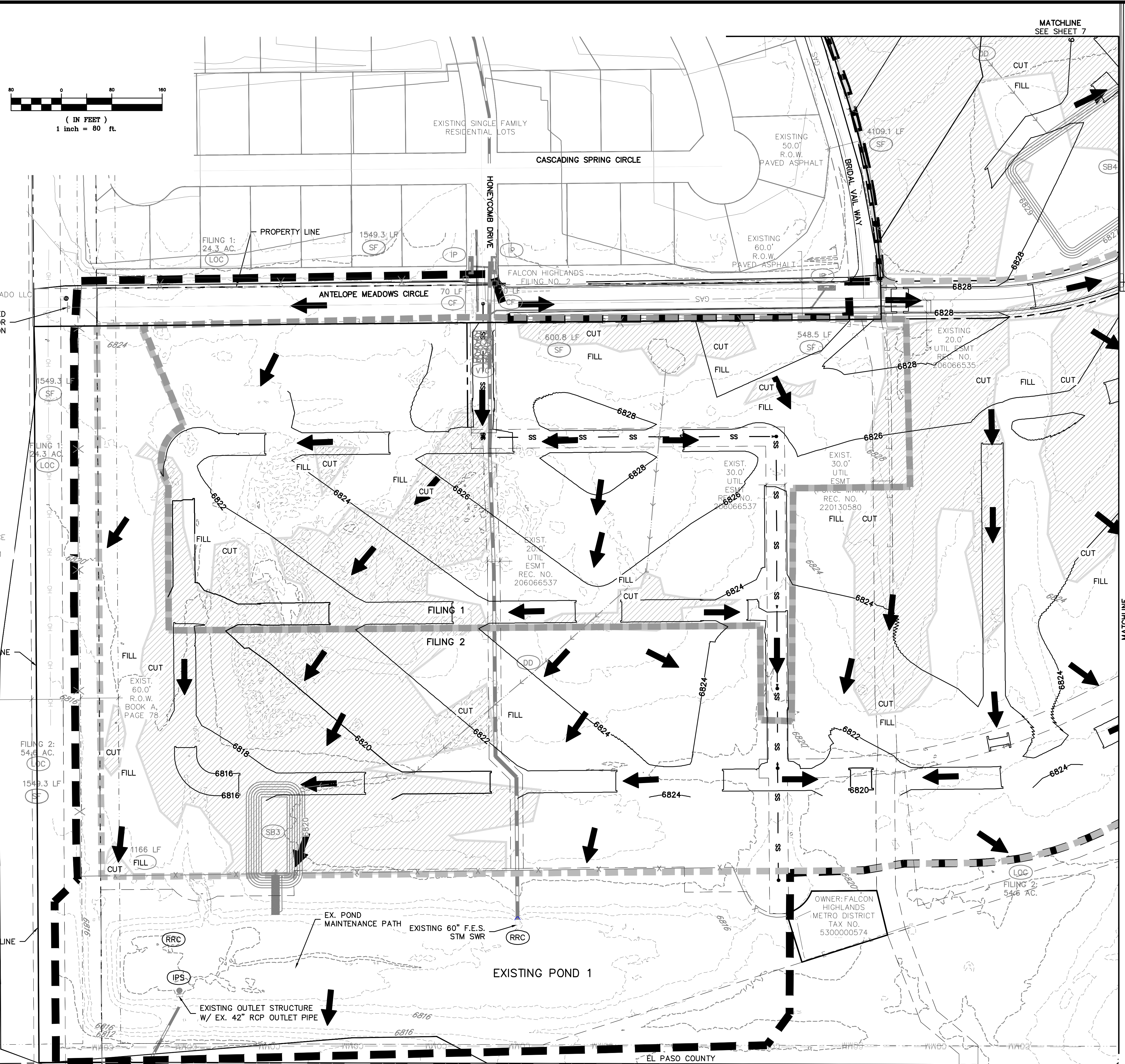
**ATWELL**  
866.850.4200 www.atwell-group.com  
143 UNION BOULEVARD, SUITE 700  
LAKEWOOD, CO 80228  
303.462.1100

OWNER: WALTON COLORADO LLC  
TAX NO. 5300000716  
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

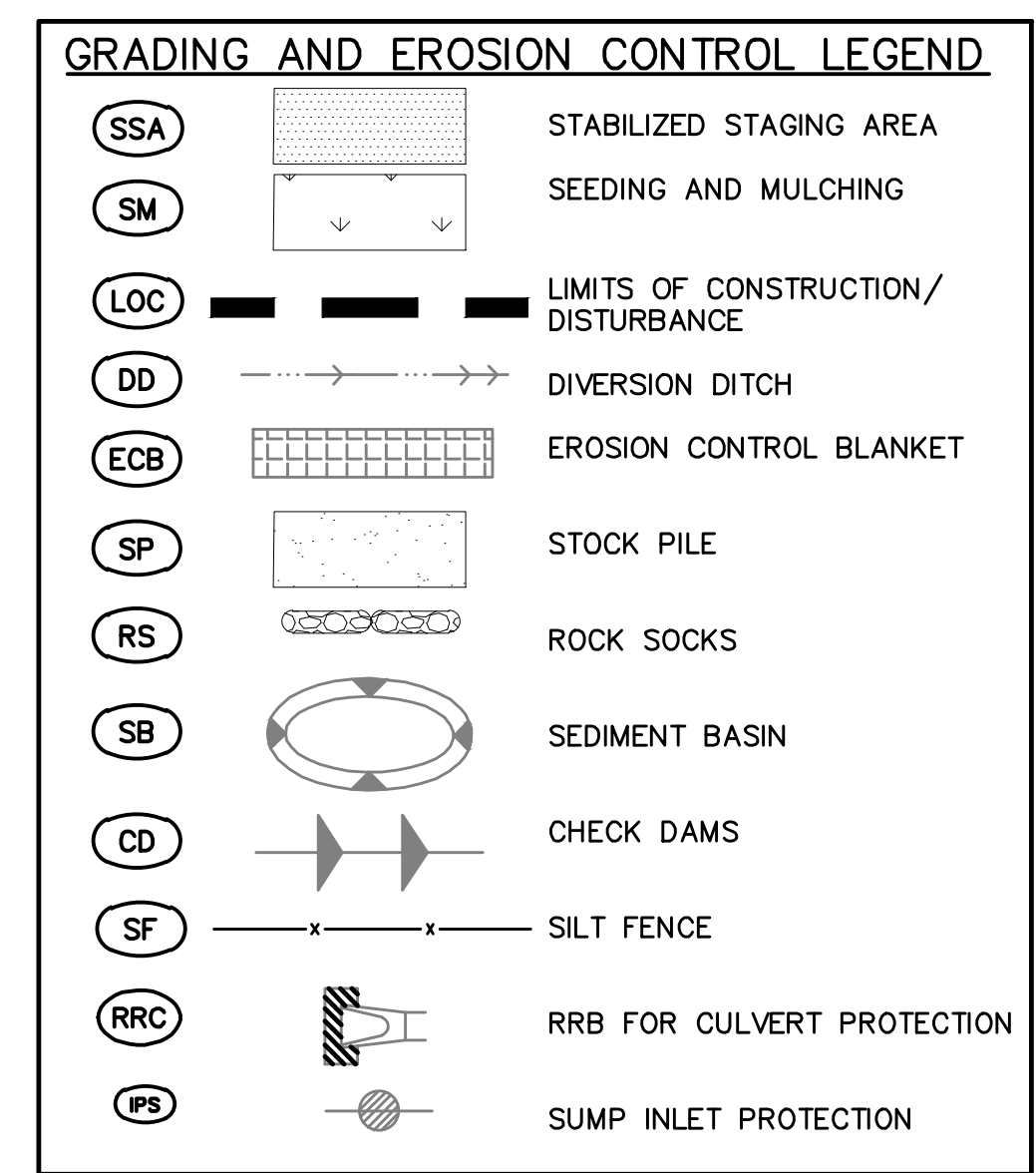
OWNER: PUBLIC SERVICE CO OF COLORADO  
TAX NO. 5300000091

EXIST. 50.0' UTIL ESMT (ELEC.)  
BOOK 2649, PAGE 17

CITY OF COLORADO SPRINGS  
EL PASO COUNTY



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DR: JD CH.  
P.M. RDL

JOB: 21005234  
SHEET NO. 6

CAD FILE: 21005234-RECD-INTERIM.GWG



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CONTRACTOR: ATWELL LLC  
REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF ATWELL LLC

OWNER: CHALLENGER COMMUNITIES LLC  
TAX NO. 5300000586

WETLAND MITIGATION AREA  
PUDSP 22-005

OWNER: FALCON H METRO DIST  
TAX NO. 5312

OWNER: BLH NO 2 LLC (FORMERLY CHICAGO ROCK ISLAND & PACIFIC RAILROAD)  
TAX NO. 5300000642

OWNER: BRIAN MOODY  
TAX NO. 5312400017

OWNER: H2O SUB BLR LLC  
TAX NO. 5313000103

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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  
INTERIM 'GCP'

DATE: 03/14/2022

1st SUBMITTAL TO EPC: 03/14/2022 - RDL  
2nd SUBMITTAL TO EPC: 08/17/2022 - RDL  
3rd SUBMITTAL TO EPC: 04/18/2023 - RDL  
4th SUBMITTAL TO EPC: 07/20/2023 - RDL  
5th SUBMITTAL TO EPC: 03/09/2024 - RDL

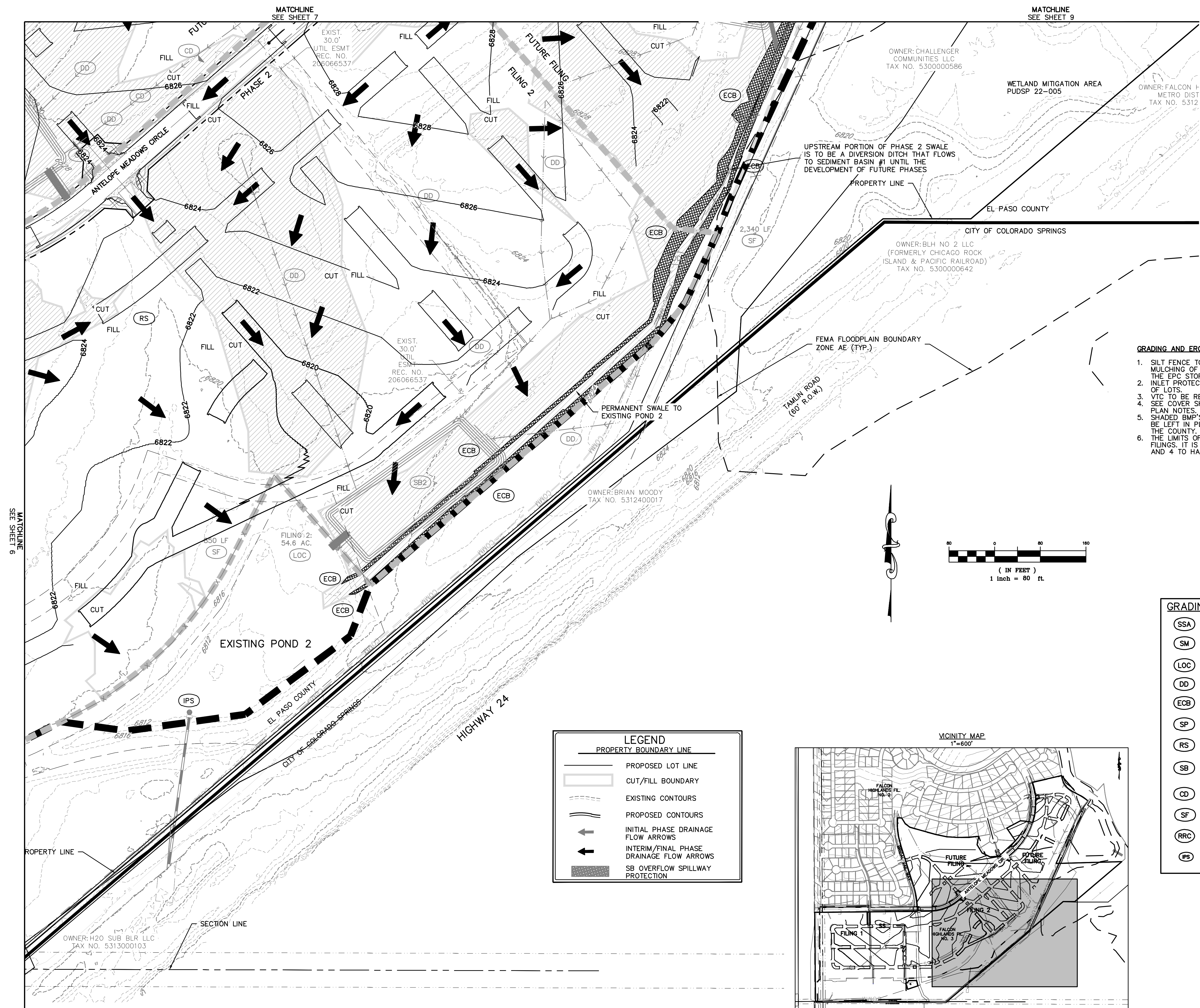
REVISIONS

*[Signature]*  
36834  
03/12/24  
PROFESSIONAL ENGINEER

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:  
P.M. RDL

JOB: 21005234  
SHEET NO. 8



- GRADING AND EROSION CONTROL NOTES:**
- SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS HAS REACH 70% VEGETATION AND BEEN APPROVED BY THE EPC STORMWATER INSPECTOR.
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  - VTC TO BE REMOVED UPON COMPLETION OF PAVING OPERATIONS.
  - SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
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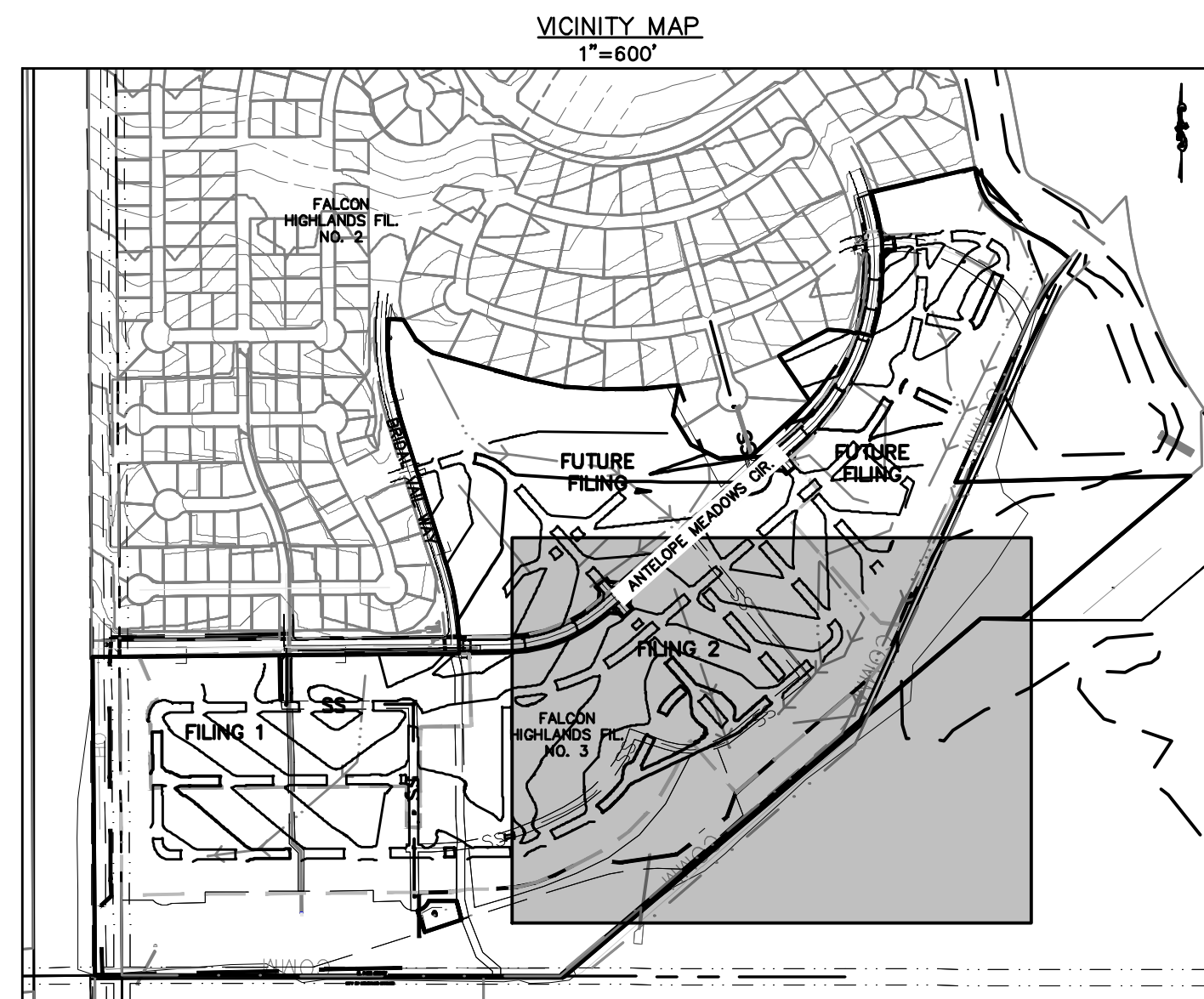
**GRADING AND EROSION CONTROL LEGEND**

(SSA)	[Symbol]	STABILIZED STAGING AREA
(SM)	[Symbol]	SEEDING AND MULCHING
(LOC)	[Symbol]	LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)	[Symbol]	DIVERSION DITCH
(ECB)	[Symbol]	EROSION CONTROL BLANKET
(SP)	[Symbol]	STOCK PILE
(RS)	[Symbol]	ROCK SOCKS
(SB)	[Symbol]	SEDIMENT BASIN
(CD)	[Symbol]	CHECK DAMS
(SF)	[Symbol]	SILT FENCE
(RRC)	[Symbol]	RRB FOR CULVERT PROTECTION
(IPS)	[Symbol]	SUMP INLET PROTECTION

**LEGEND**

PROPERTY BOUNDARY LINE

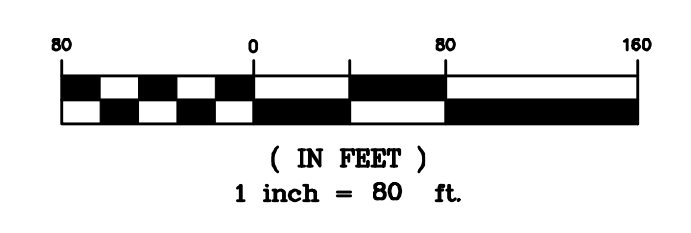
[Symbol]	PROPOSED LOT LINE
[Symbol]	CUT/FILL BOUNDARY
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
[Symbol]	INITIAL PHASE DRAINAGE FLOW ARROWS
[Symbol]	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS
[Symbol]	SB OVERFLOW SPILLWAY PROTECTION



**BENCHMARK:**  
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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
	SB OVERFLOW SPILLWAY PROTECTION

**GRADING AND EROSION CONTROL NOTES:**

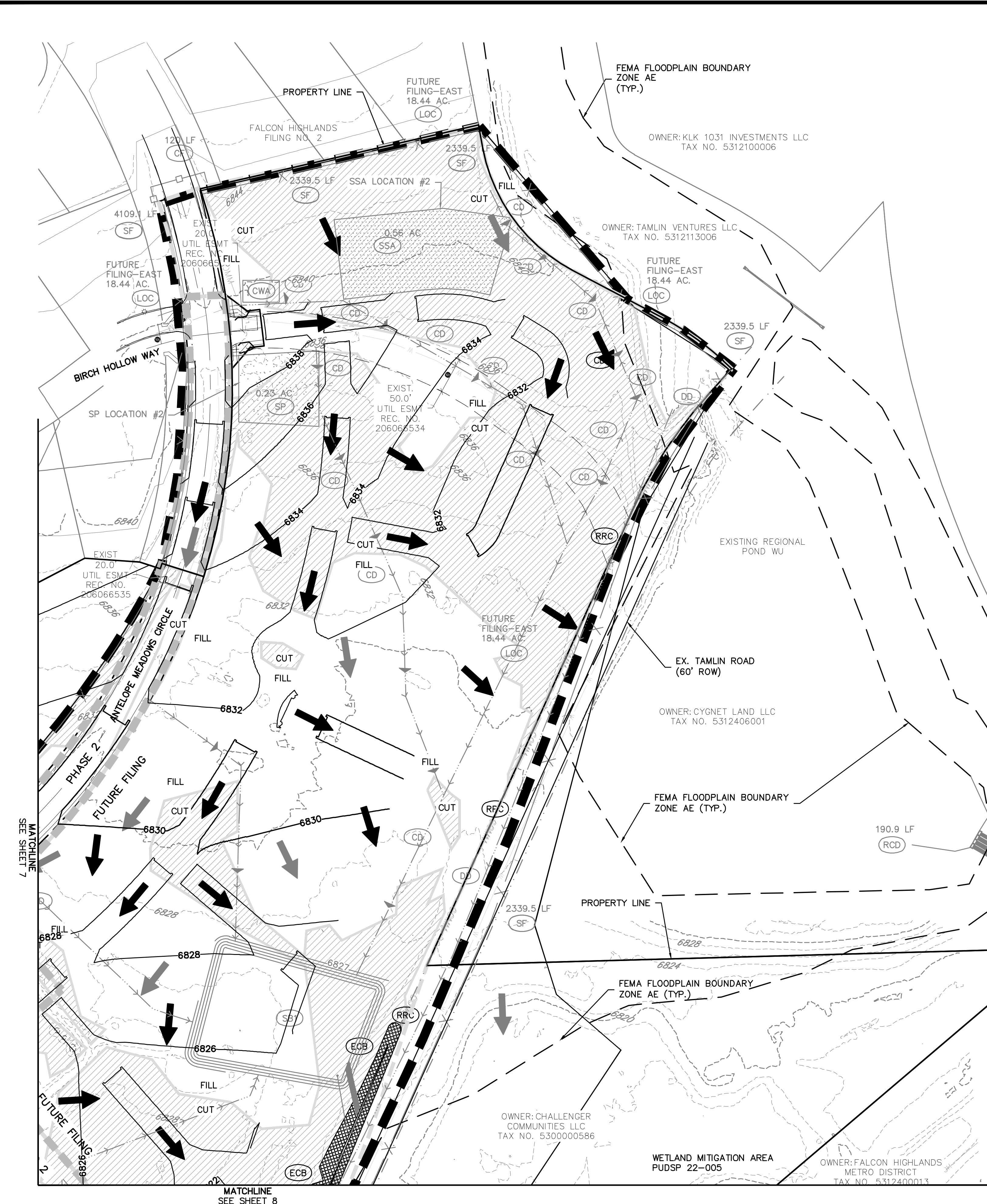
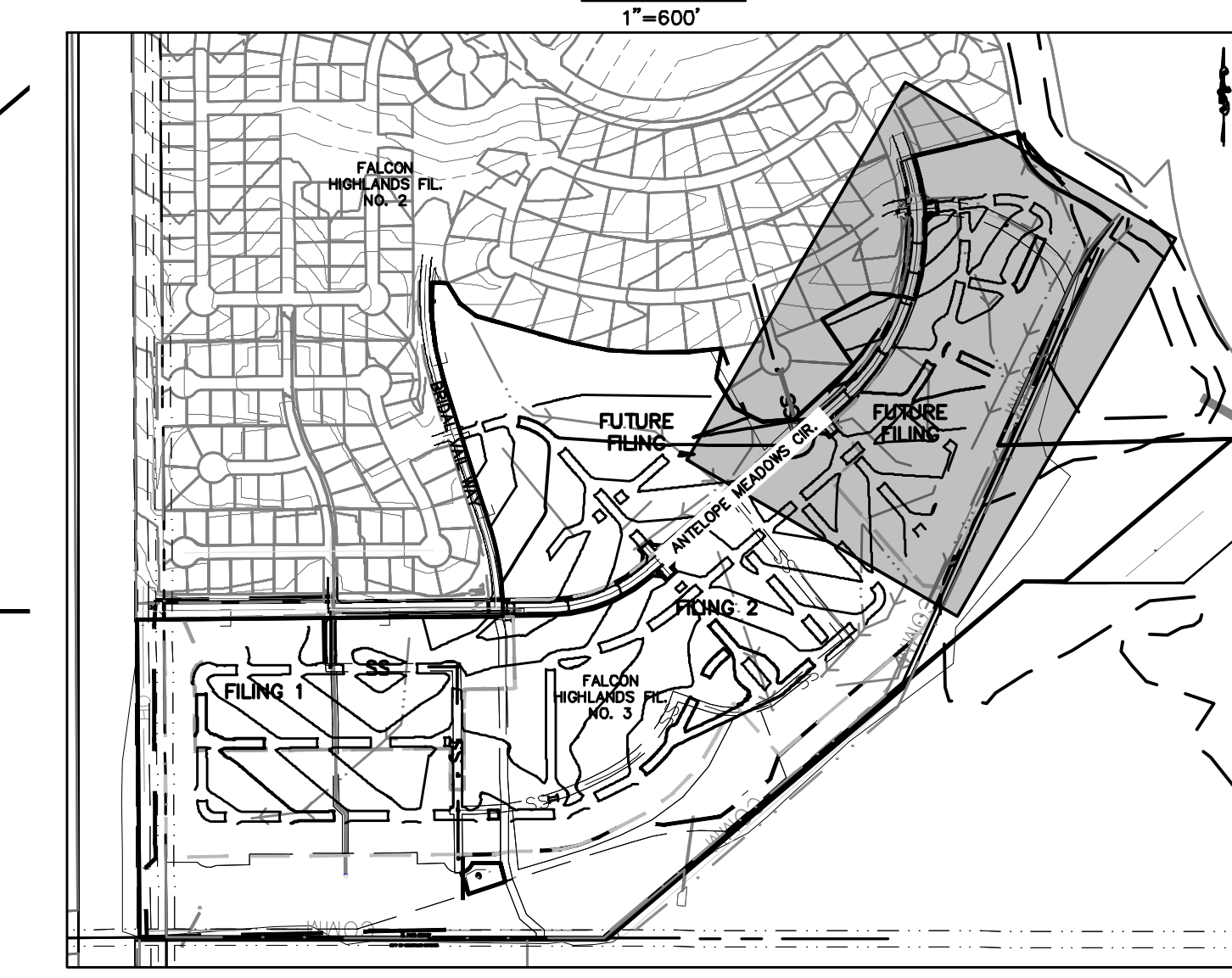
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4. SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
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**GRADING AND EROSION CONTROL LEGEND**

	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
	SF	SILT FENCE
	RRC	RRB FOR CULVERT PROTECTION
	PS	SUMP INLET PROTECTION

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EL PASO COUNTY, COLORADO  
CONSTRUCTION PLANS  
GRADING AND EROSION CONTROL PLAN  
INTERIM 'GCP'

DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
E	5th SUBMITTAL TO EPC	03/05/2024 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:  
P.M. RDL

JOB: 21005234  
SHEET NO. 9

CAD FILE: 21005234-GCP-INTERIM.DWG





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 COLORADO SPRINGS, CO 80920  
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 FALCON HIGHLANDS SOUTH  
 EL PASO COUNTY, COLORADO  
 CONSTRUCTION PLANS  
 GRADING AND EROSION CONTROL PLAN  
 FINAL GECP

CLIENT: CHALLENGER HOMES

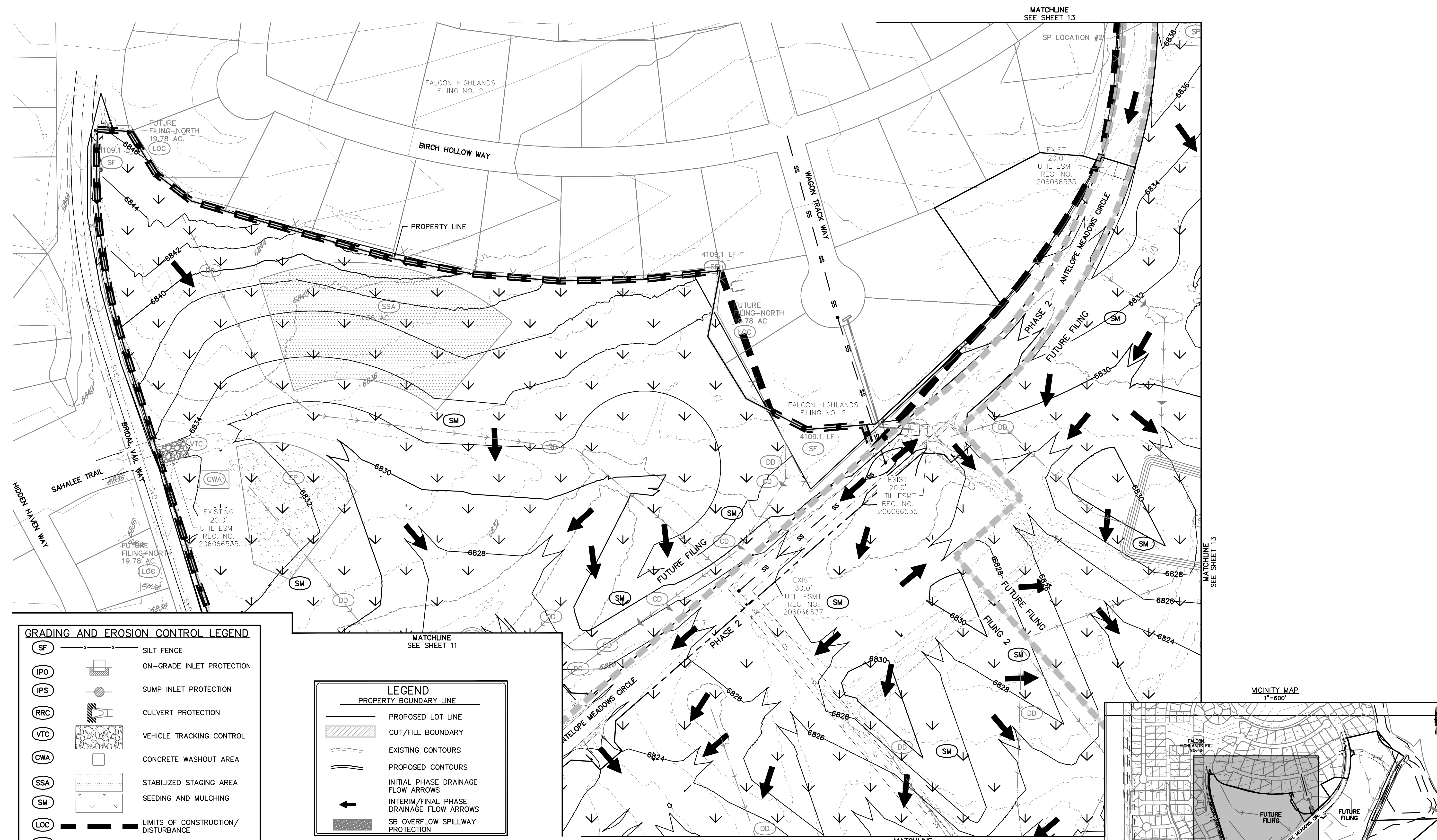
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A 1st SUBMITTAL TO EPC	03/14/2022 - RBL
B 2nd SUBMITTAL TO EPC	08/17/2022 - RBL
C 3rd SUBMITTAL TO EPC	02/18/2023 - RBL
D 4th SUBMITTAL TO EPC	07/20/2023 - RBL
E 5th SUBMITTAL TO EPC	03/05/2024 - RBL

REVISIONS

36834  
 03/12/24  
 PROFESSIONAL ENGINEER

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:  
 P.M. RDL  
 JOB: 21005234  
 SHEET NO. 10



**GRADING AND EROSION CONTROL LEGEND**

SF	SILT FENCE
IPO	ON-GRADE INLET PROTECTION
IFS	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
IP	INLET PROTECTION
RCD	REINFORCED CHECK DAM
CF	CONSTRUCTION FENCE

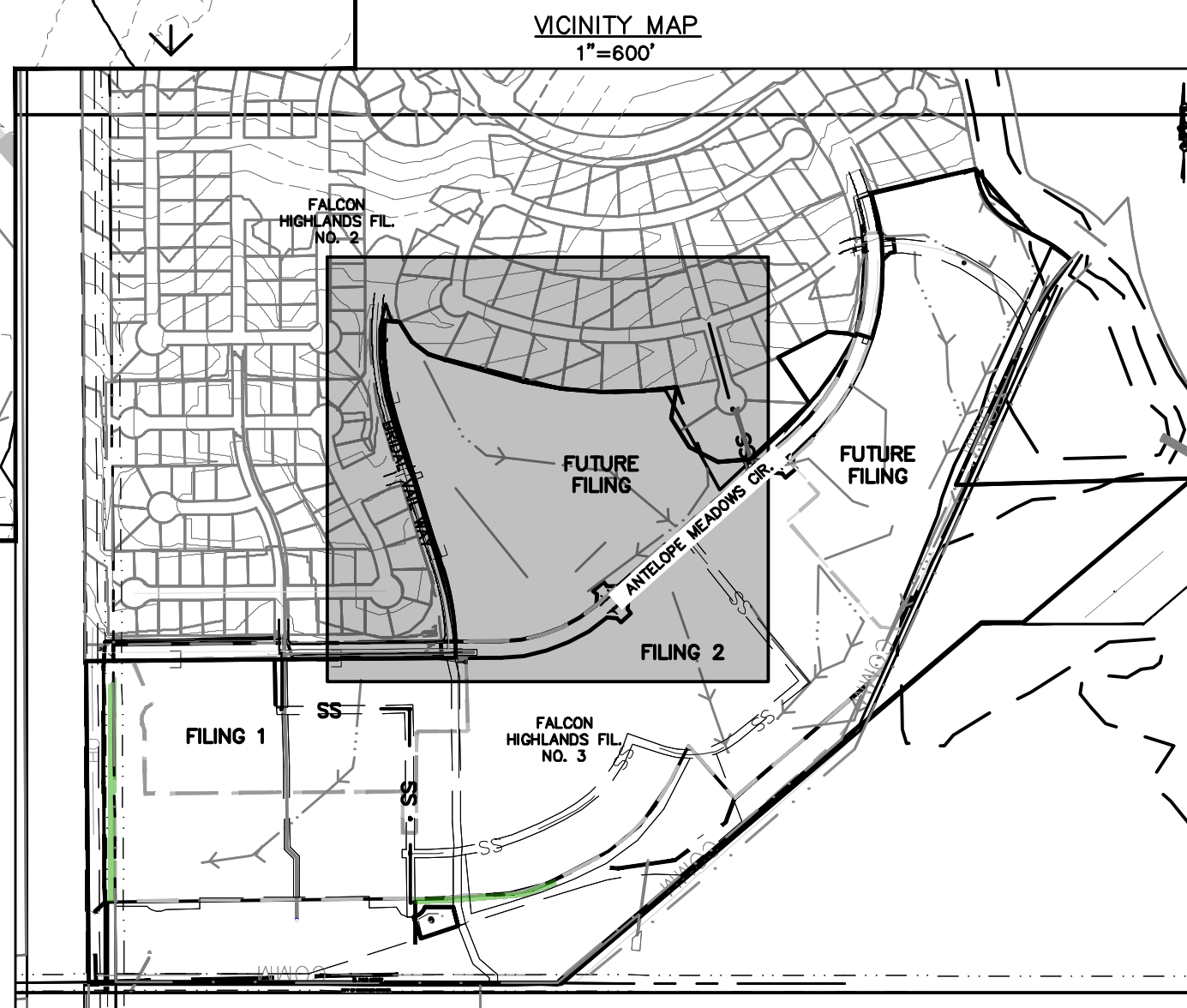
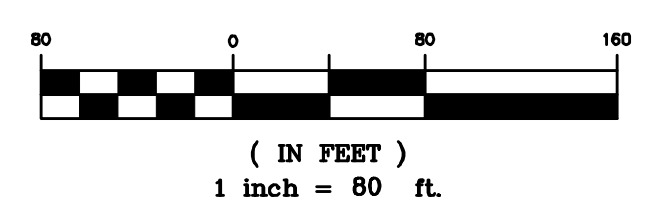
**LEGEND**

PROPERTY BOUNDARY LINE

(Dashed line)	PROPOSED LOT LINE
(Hatched area)	CUT/FILL BOUNDARY
(Dotted line)	EXISTING CONTOURS
(Solid line)	PROPOSED CONTOURS
(Arrow)	INITIAL PHASE DRAINAGE FLOW ARROWS
(Arrow)	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS
(Shaded area)	SB OVERFLOW SPILLWAY PROTECTION

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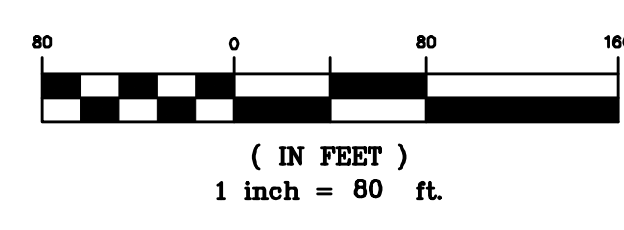
RECEIVING PERVIOUS AREA



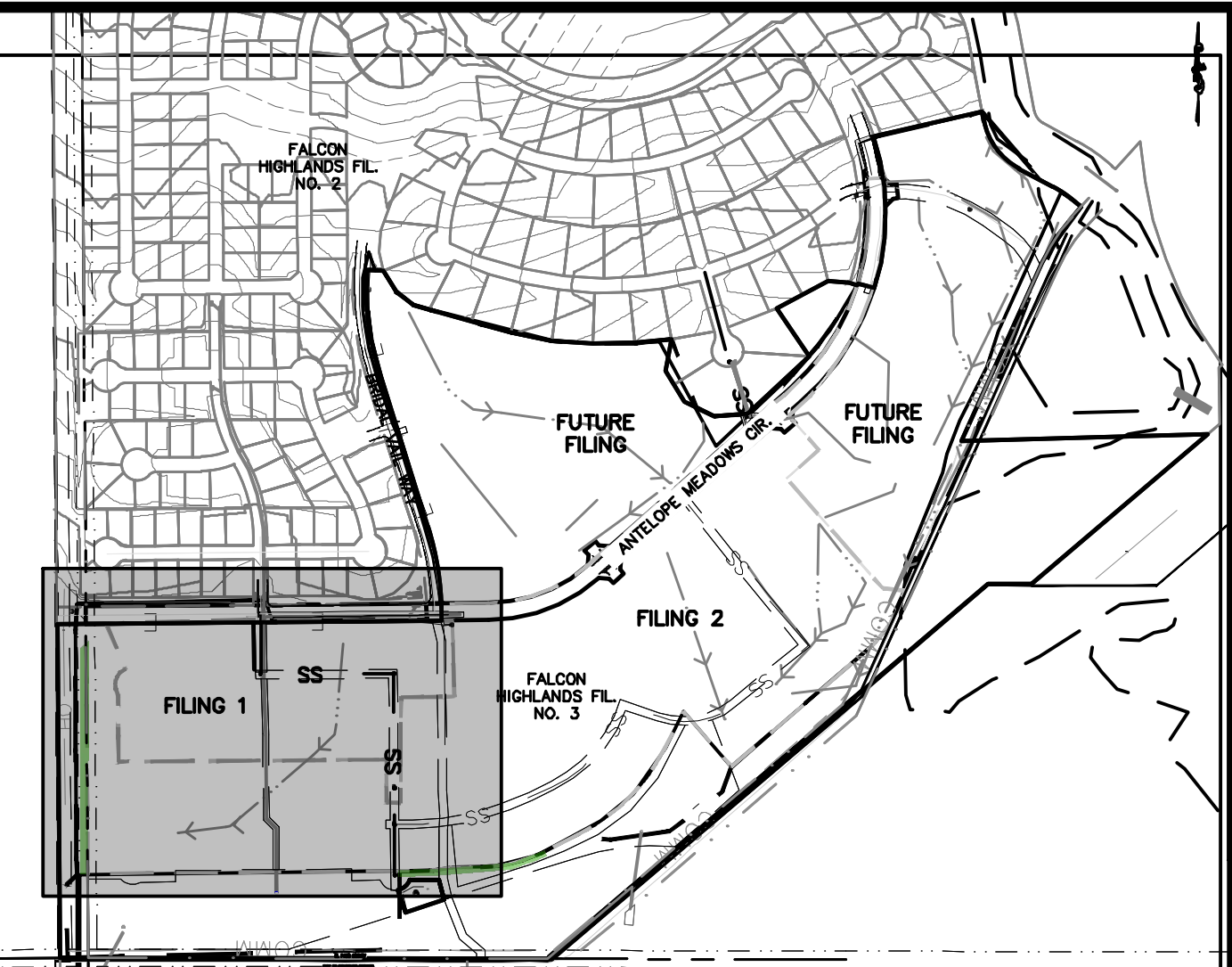
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MATCHLINE  
SEE SHEET 10



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**LEGEND**  
PROPERTY BOUNDARY LINE

—	PROPOSED LOT LINE
▨	CUT/FILL BOUNDARY
- - -	EXISTING CONTOURS
- - -	PROPOSED CONTOURS
→	INITIAL PHASE DRAINAGE FLOW ARROWS
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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
(IP)	INLET PROTECTION
(RCD)	REINFORCED CHECK DAM
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CLIENT: CHALLENGER HOMES  
8605 EXPLORER DRIVE  
SUITE 250  
COLORADO SPRINGS, CO 80920  
719-598-5192  
JIM BYERS

DATE: 03/14/2022

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REVISIONS

36834  
03/12/24  
PROFESSIONAL ENGINEER

COUNTY FILE NO.: PUDSP-22-005  
DR: JD CH.  
P.M. RDL  
JOB: 21005234  
SHEET NO. 11



OWNER: WALTON COLORADO LLC  
TAX NO. 5300000716  
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

OWNER: PUBLIC SERVICE CO OF COLORADO  
TAX NO. 5300000091

OWNER: FALCON HIGHLANDS METRO DISTRICT  
TAX NO. 5300000574

OWNER: H2O SUB BLR LLC  
TAX NO. 5313000103

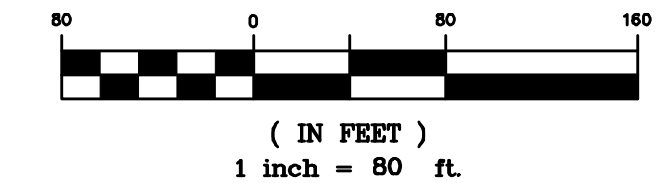
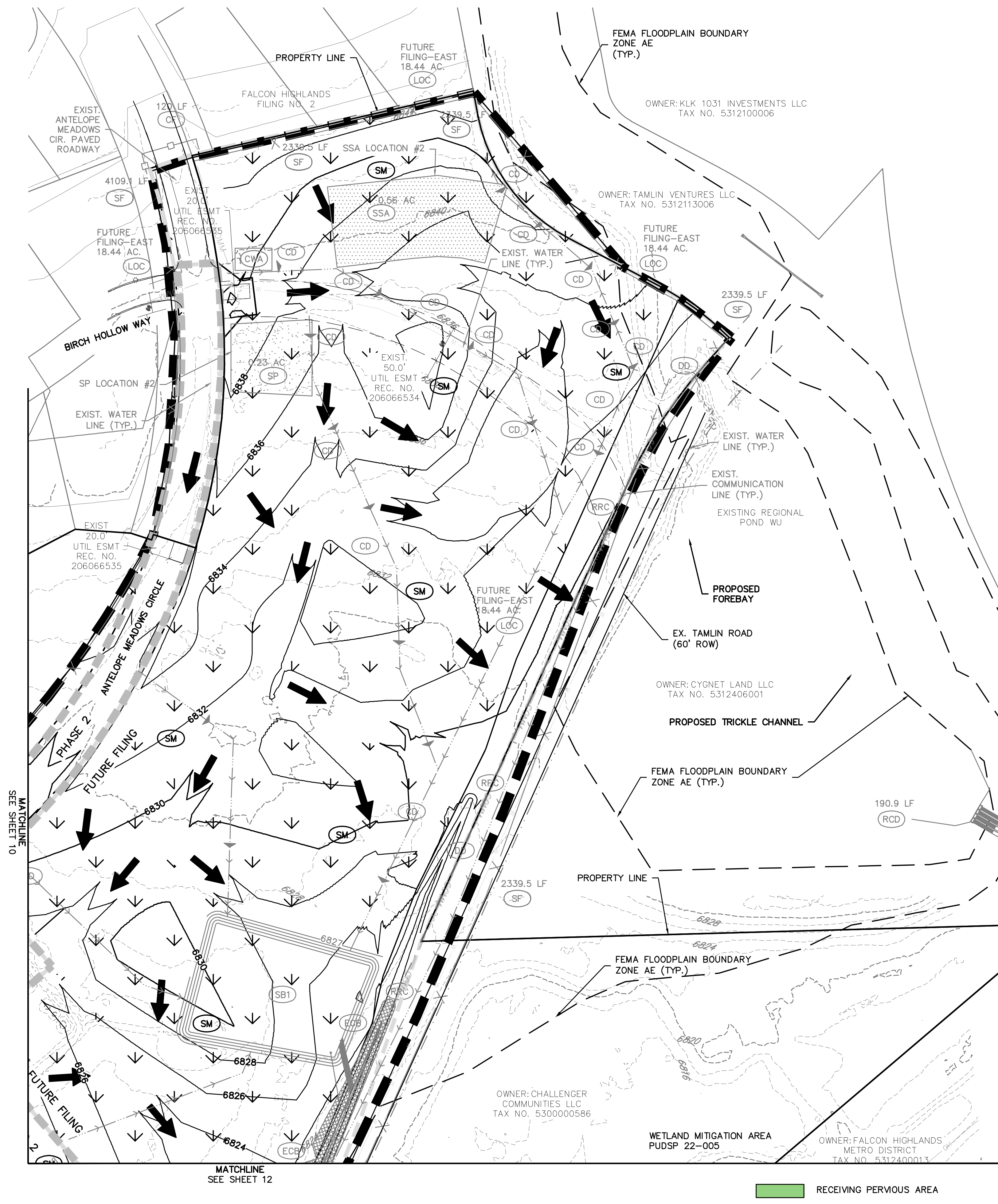
RECEIVING PERVIOUS AREA

CITY OF COLORADO SPRINGS  
EL PASO COUNTY

CITY OF COLORADO SPRINGS

MATCHLINE  
SEE SHEET 12





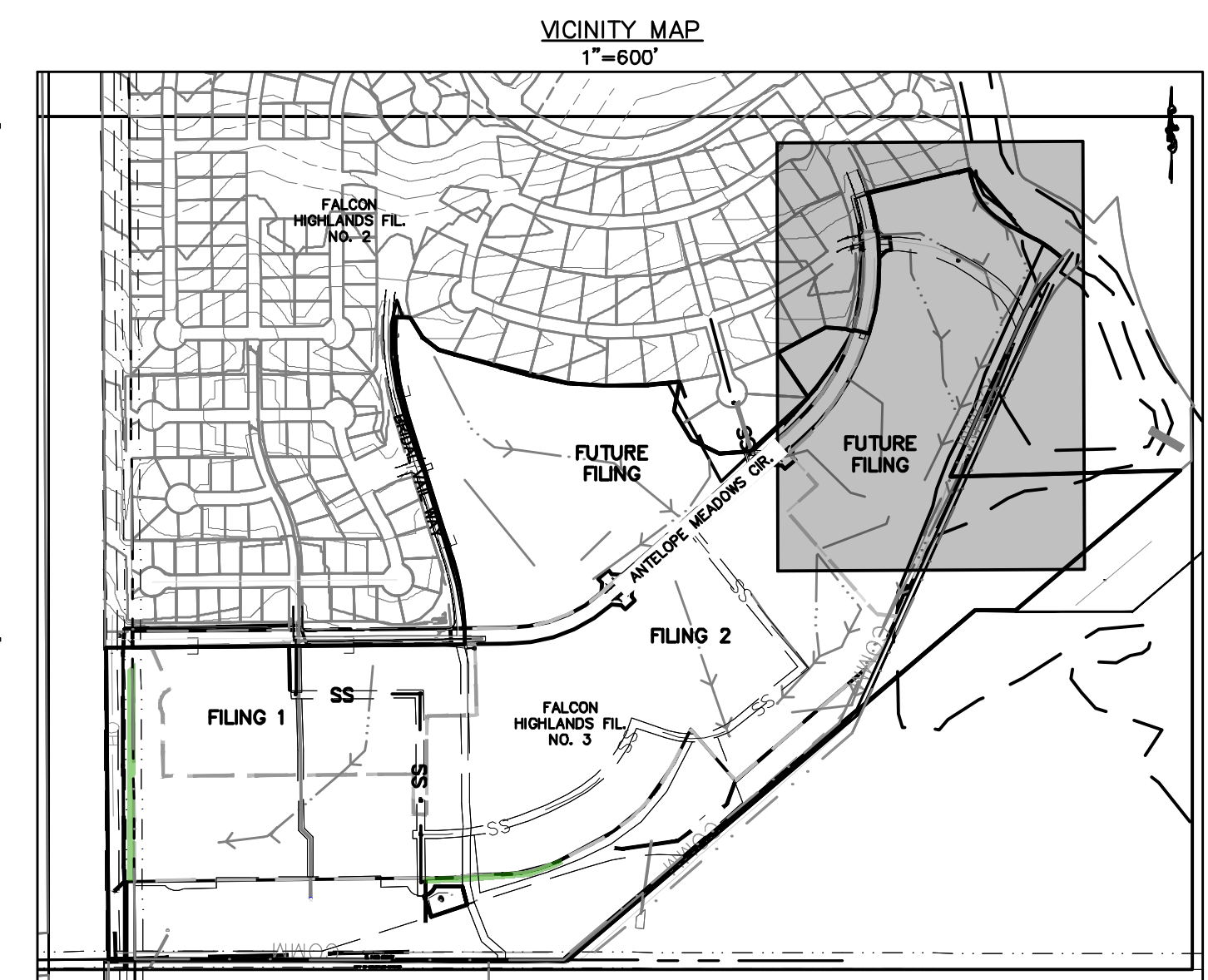
LEGEND	
	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
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**GRADING AND EROSION CONTROL LEGEND**

	SILT FENCE
	ON-GRADE INLET PROTECTION
	SUMP INLET PROTECTION
	CULVERT PROTECTION
	VEHICLE TRACKING CONTROL
	CONCRETE WASHOUT AREA
	STABILIZED STAGING AREA
	SEEDING AND MULCHING
	LIMITS OF CONSTRUCTION/DISTURBANCE
	DIVERSION DITCH
	EROSION CONTROL BLANKET
	STOCK PILE
	ROCK SOCKS
	SEDIMENT BASIN
	CHECK DAMS
	INLET PROTECTION
	REINFORCED CHECK DAM
	CONSTRUCTION FENCE



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<p>DATE: 03/14/2022</p> <p>A 1st SUBMITTAL TO EPC 03/14/2022 - RDL B 2nd SUBMITTAL TO EPC 08/17/2022 - RDL C 3rd SUBMITTAL TO EPC 04/18/2023 - RDL D 4th SUBMITTAL TO EPC 07/20/2023 - RDL E 5th SUBMITTAL TO EPC 03/05/2024 - RDL</p>	
<p>REVISIONS</p>	
<p>COUNTY FILE NO.: PUDSP-22-005</p> <p>DR: JD CH: P.M. RDL</p> <p>JOB: 21005234 SHEET NO. 13</p>	

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OWNER: CHALLENGER COMMUNITIES LLC  
TAX NO. 5300000586

WETLAND MITIGATION AREA  
PUDSP 22-005

OWNER: FALCON H METRO DIST  
TAX NO. 5312

UPSTREAM PORTION OF PHASE 2 SWALE IS TO BE A DIVERSION DITCH THAT FLOWS TO SEDIMENT BASIN #1 UNTIL THE DEVELOPMENT OF FUTURE PHASES

PROPERTY LINE

EXIST. COMMUNICATION LINE (TYP.)

EL PASO COUNTY

OWNER: BLH NO 2 LLC (FORMERLY CHICAGO ROCK ISLAND & PACIFIC RAILROAD)  
TAX NO. 5300000642

CITY OF COLORADO SPRINGS

EXIST. WATER LINE (TYP.)

FEMA FLOODPLAIN BOUNDARY ZONE AE (TYP.)

TAMLIN ROAD (60' R.O.W.)

RECEIVING PERVIOUS AREA

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719-598-5192  
JIM BYERS

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

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5th SUBMITTAL TO EPC: 03/05/2024 - RDM

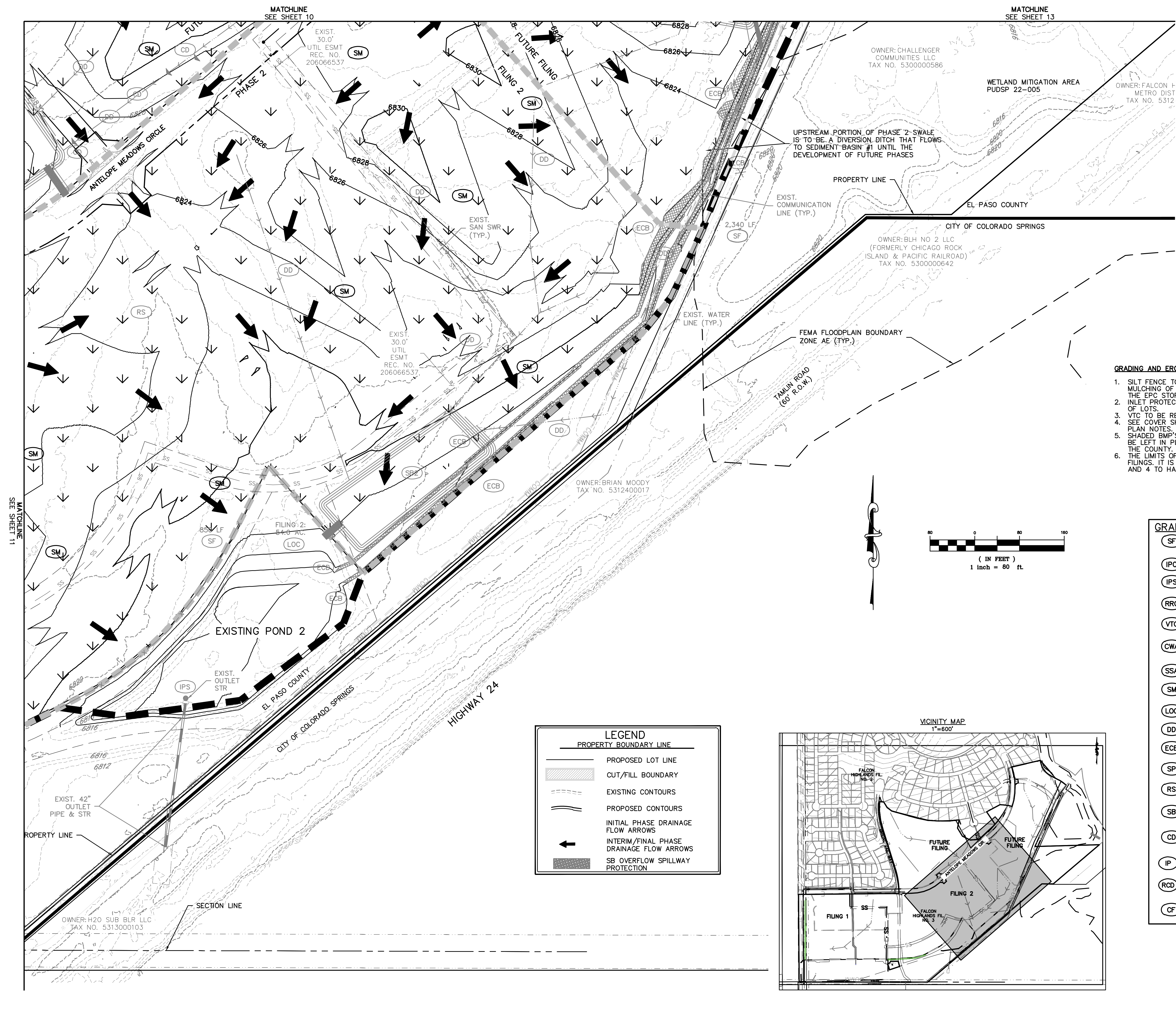
REVISIONS

36834  
03/12/24  
PROFESSIONAL ENGINEER

COUNTY FILE NO.: PUDSP-22-005

DR: JD CH:  
P.M. RDL

JOB: 21005234  
SHEET NO. 12



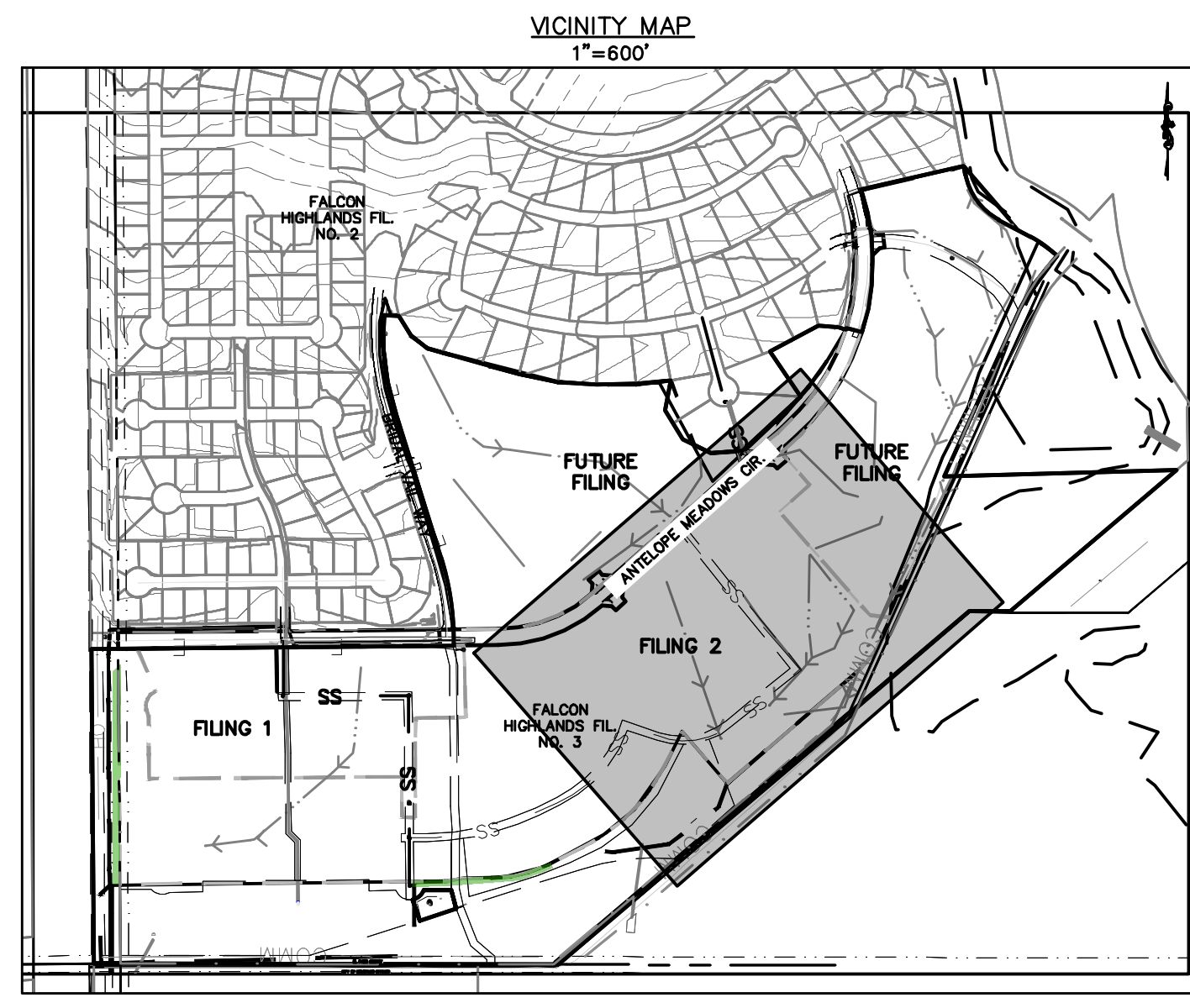
- GRADING AND EROSION CONTROL NOTES:**
1. SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS HAS REACH 70% VEGETATION AND BEEN APPROVED BY THE EPC STORMWATER INSPECTOR.
  2. INLET PROTECTION TO BE REMOVED AFTER DEVELOPMENT AND STABILIZATION OF LOTS.
  3. VTC TO BE REMOVED UPON COMPLETION OF PAVING OPERATIONS.
  4. SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
  5. SHADED BMP'S WERE INSTALLED IN INITIAL OR INTERIM STAGES AND SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
  6. THE LIMITS OF CONSTRUCTION / DISTURBANCE SHOWN ARE FOR ALL FILINGS. IT IS THE INTENTION TO PERMANENTLY STABILIZE FUTURE FILINGS 3 AND 4 TO HAVE TEMPORARY BMP'S REMOVED.

**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
(IP)		INLET PROTECTION
(RCD)		REINFORCED CHECK DAM
(CF)		CONSTRUCTION FENCE

**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
	SB OVERFLOW SPILLWAY PROTECTION



**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 FOUNDS-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".

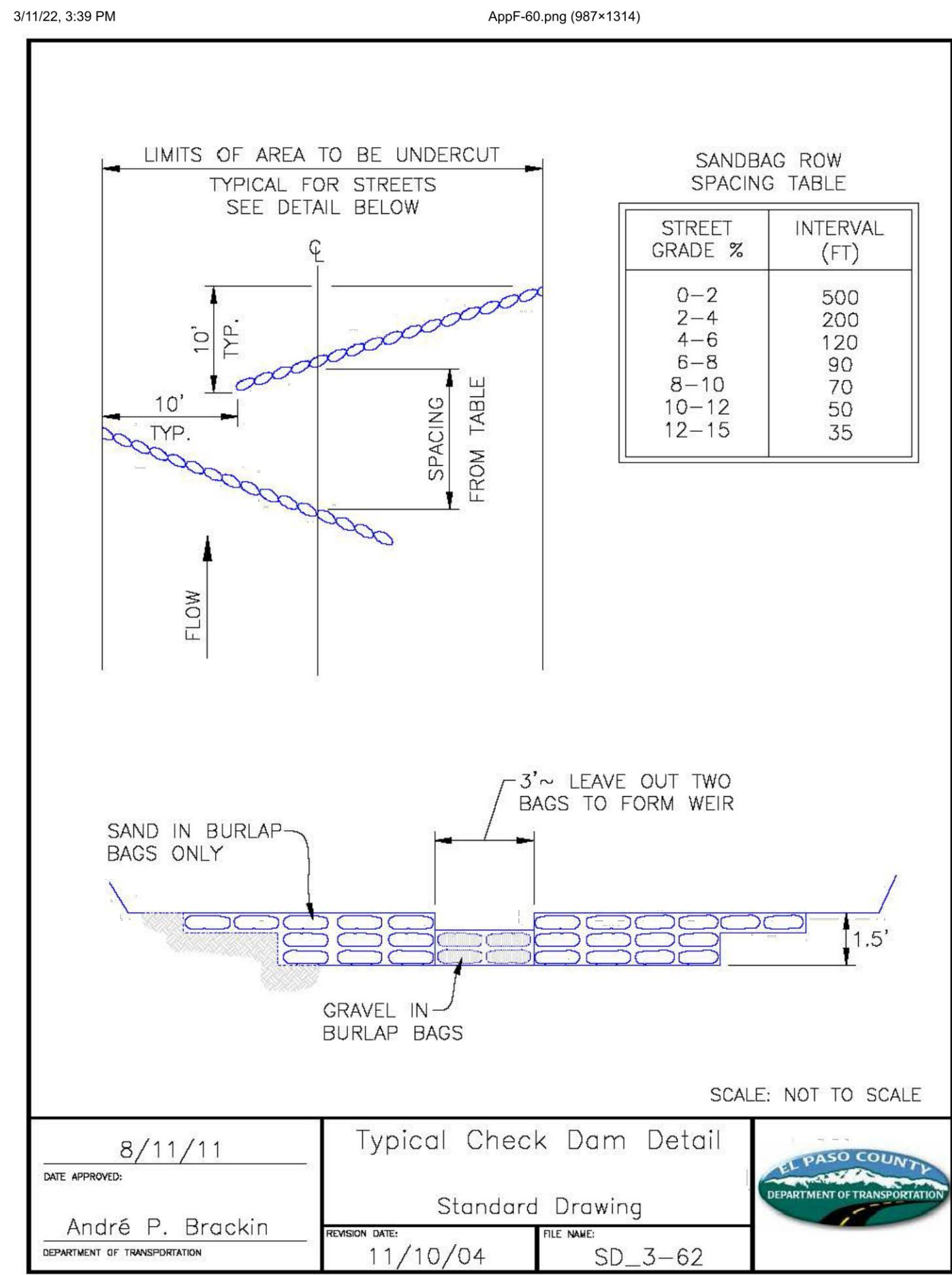
MATCHLINE  
SEE SHEET 11

MATCHLINE  
SEE SHEET 10

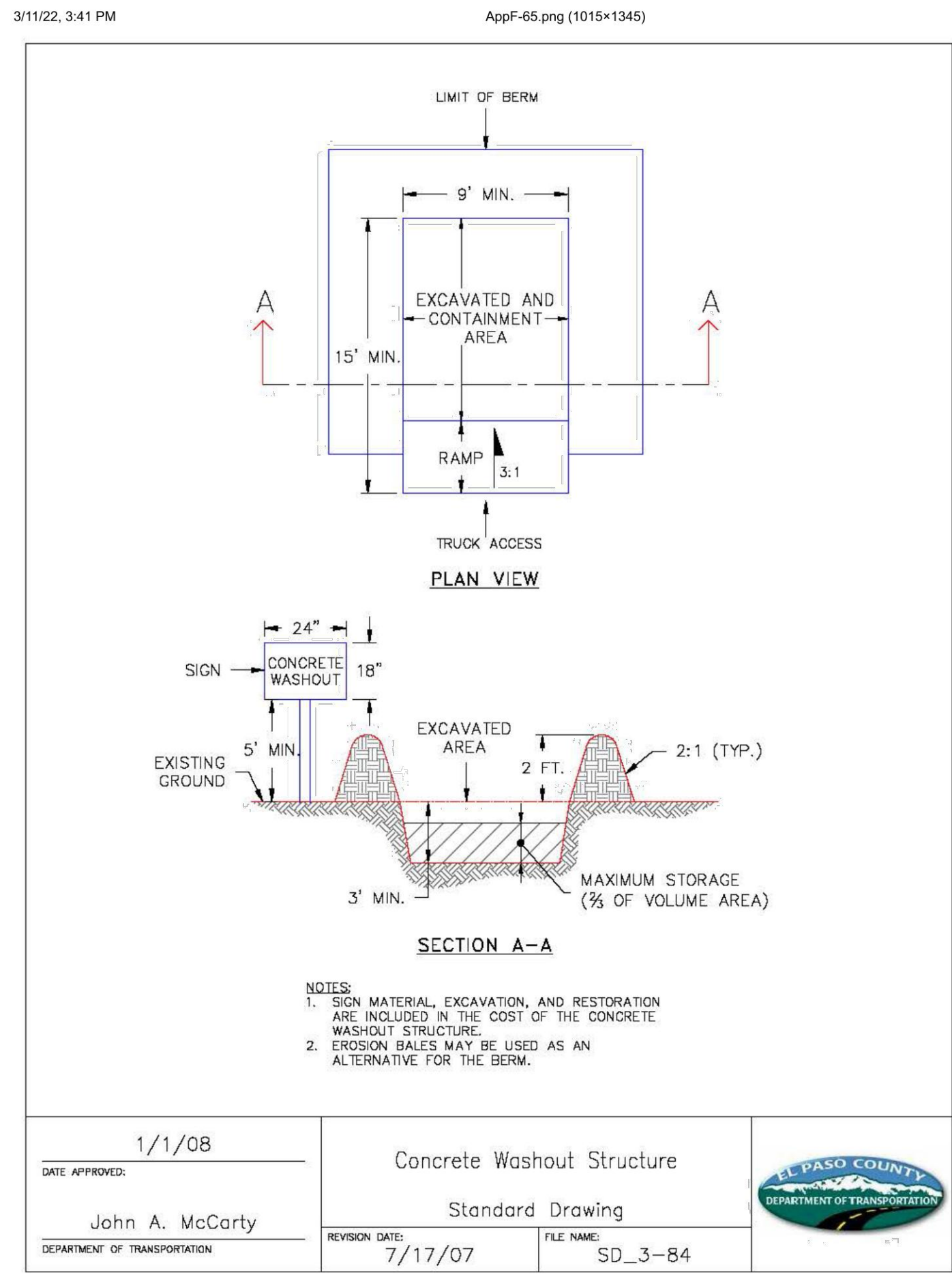
MATCHLINE  
SEE SHEET 13

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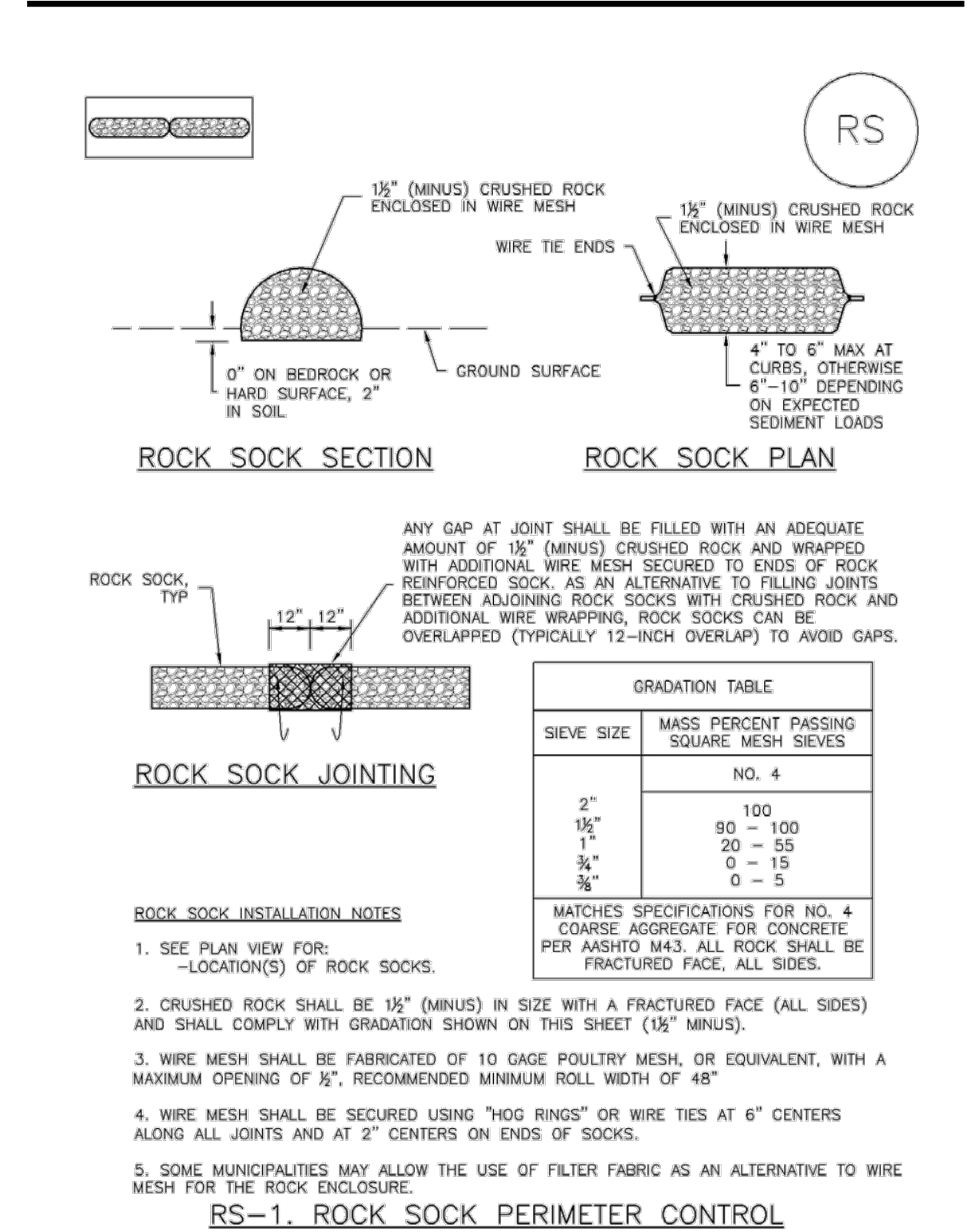


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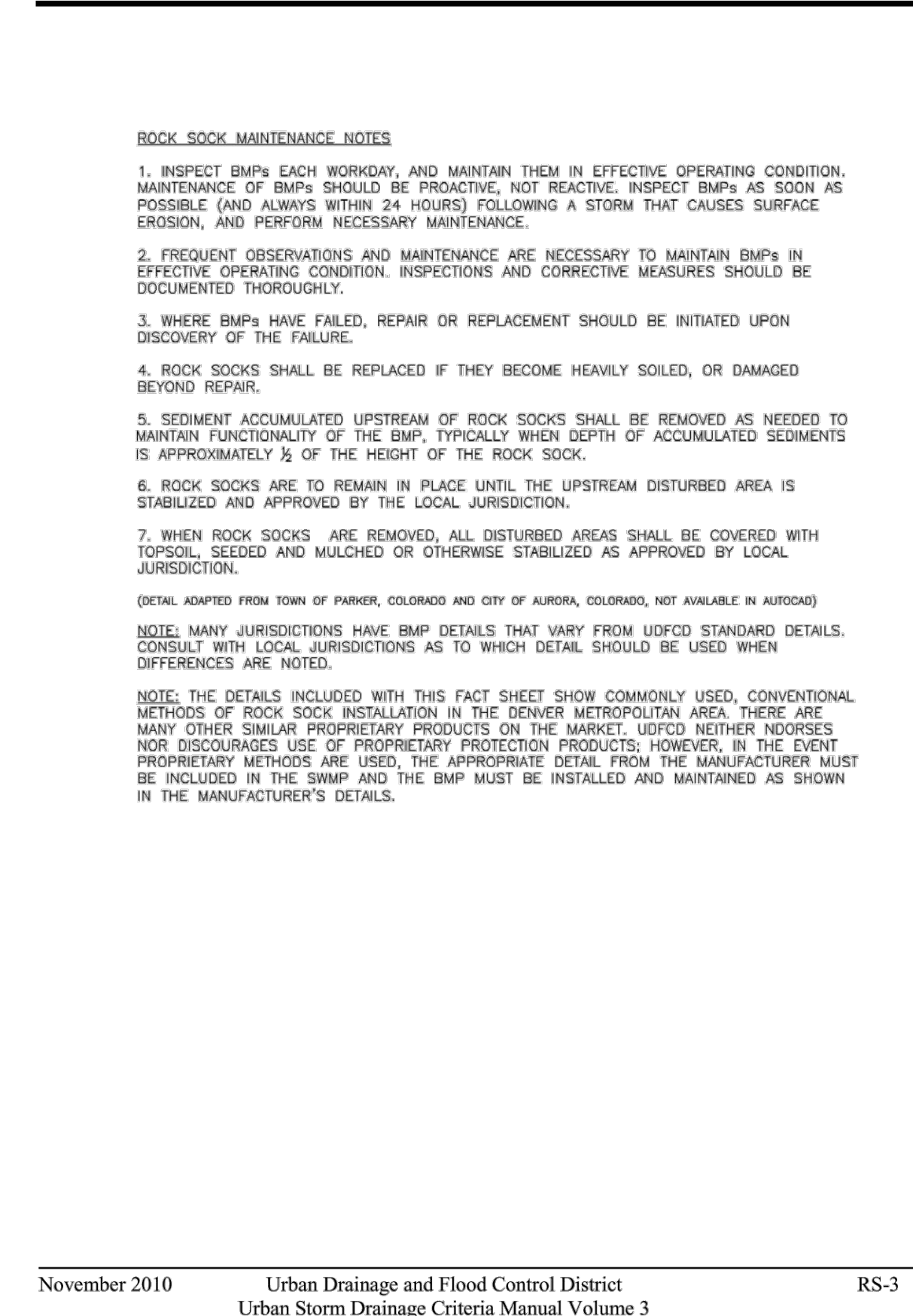
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SC-5 Rock Sock (RS)

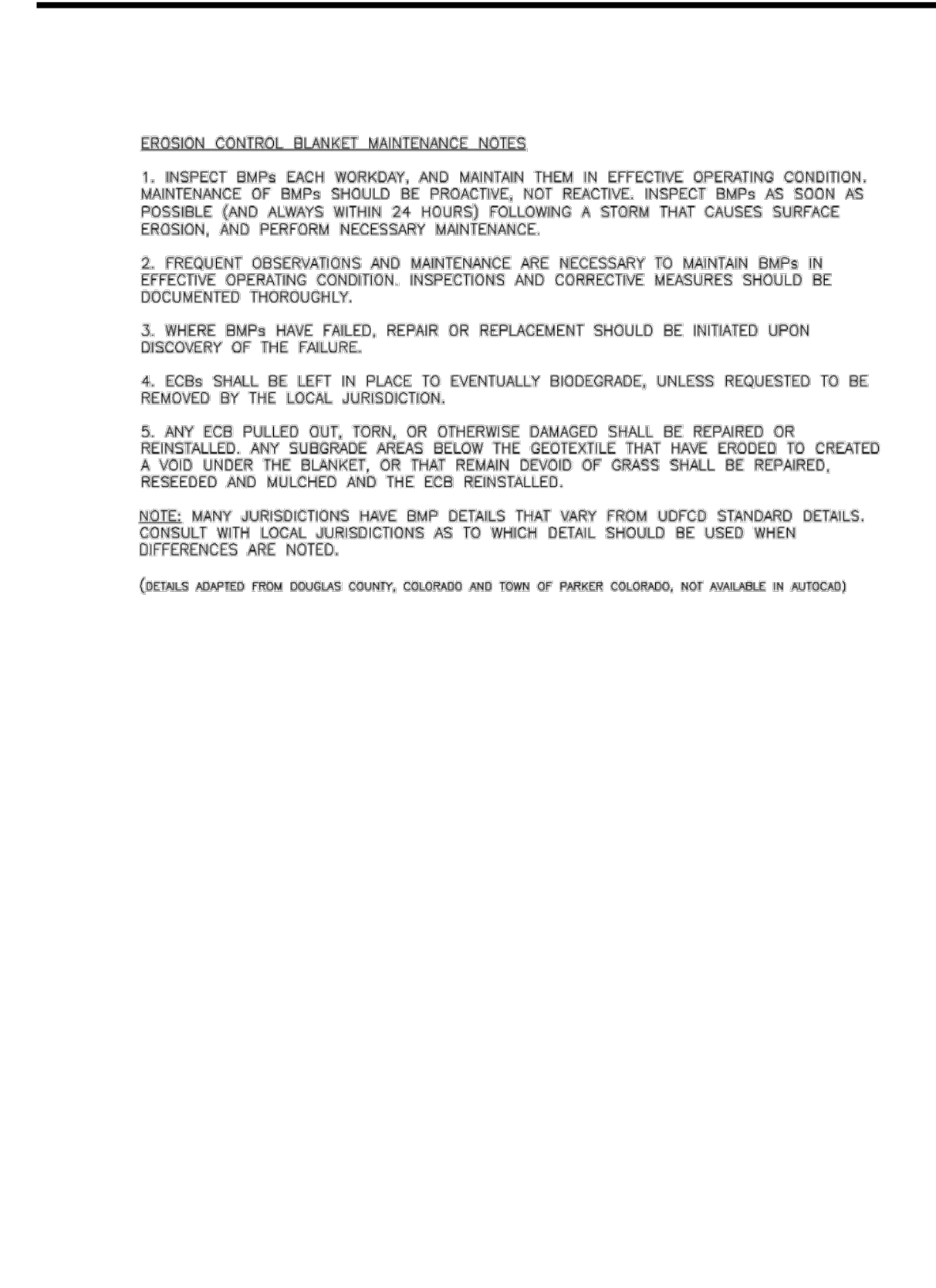


RS-2 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

Rock Sock (RS) SC-5

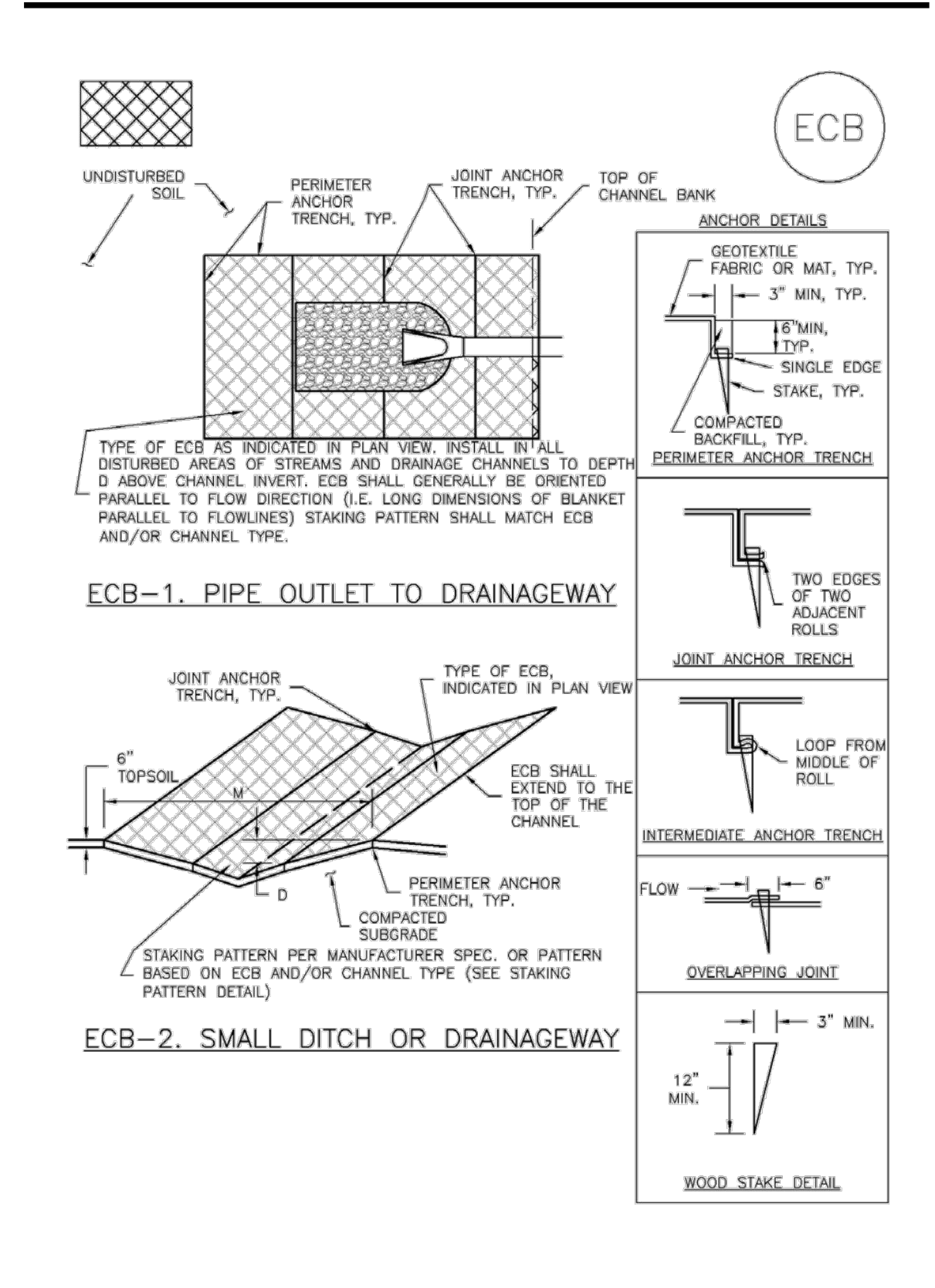


Rock Sock (RS) SC-5



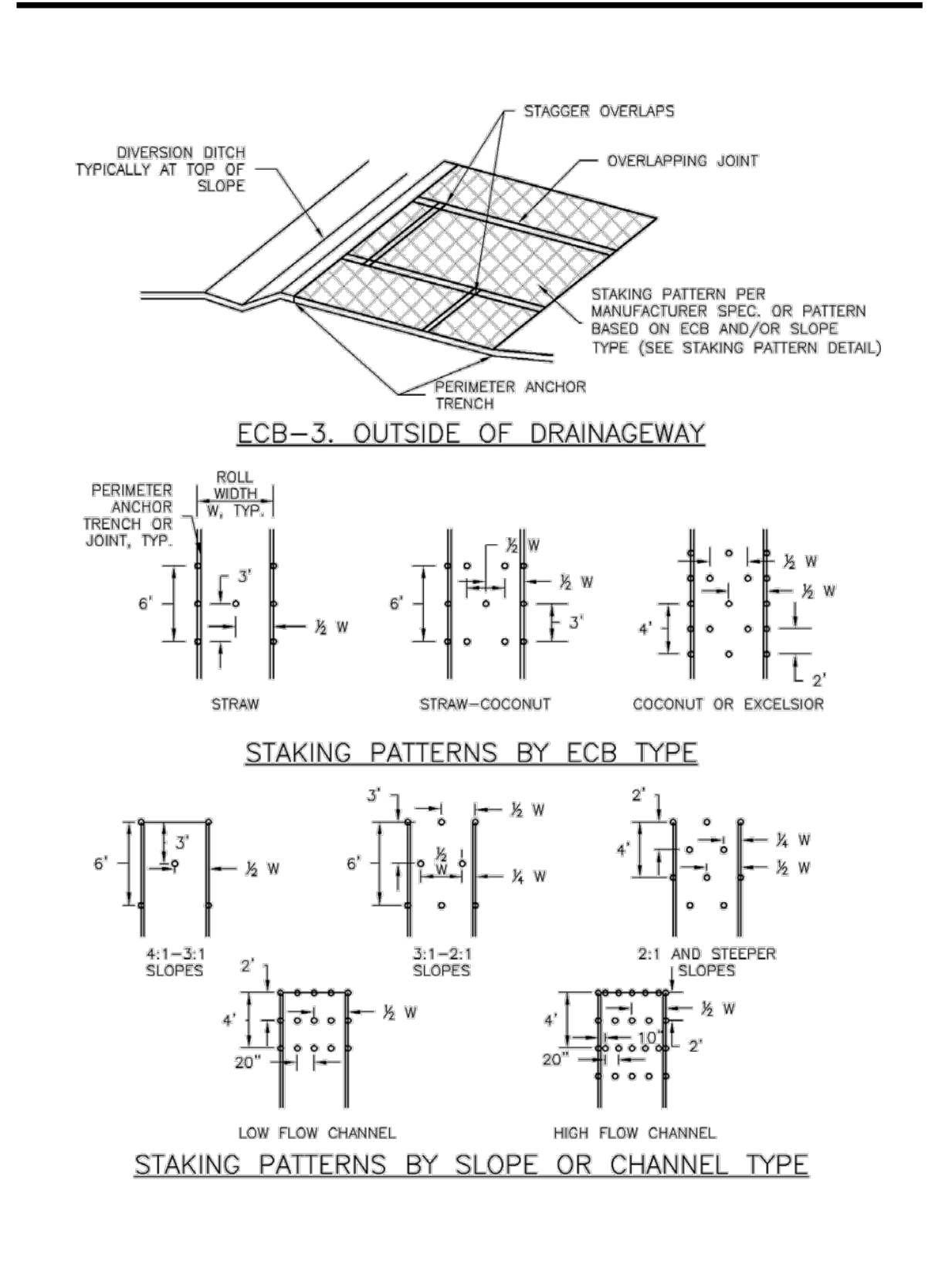
RECP-6 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

EC-6 Rolled Erosion Control Products (RECP)



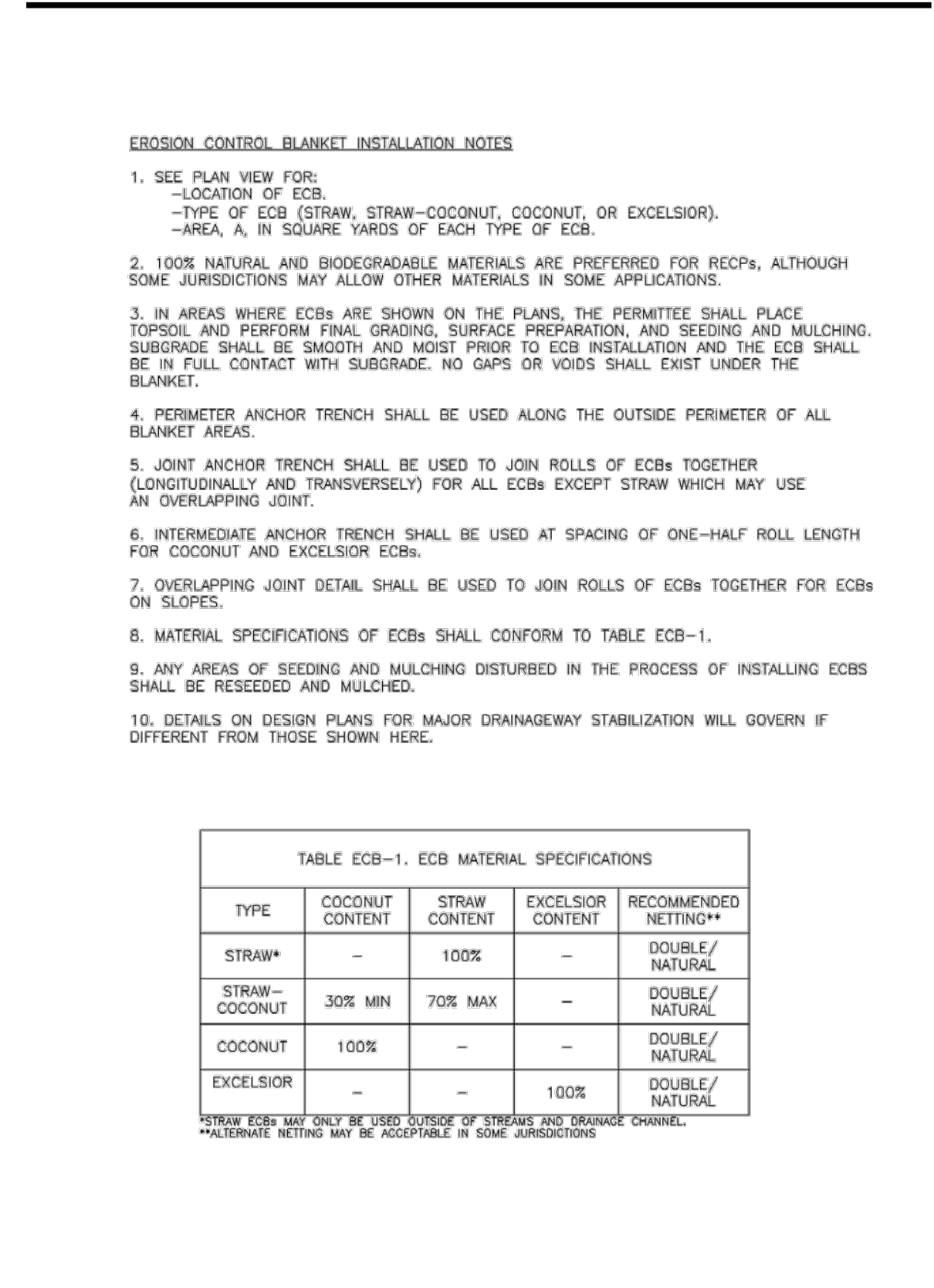
RECP-6 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

Rolled Erosion Control Products (RECP) EC-6



RECP-7 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

EC-6 Rolled Erosion Control Products (RECP)



RECP-8 Urban Drainage and Flood Control District November 2010  
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RECP-9 Urban Drainage and Flood Control District November 2010  
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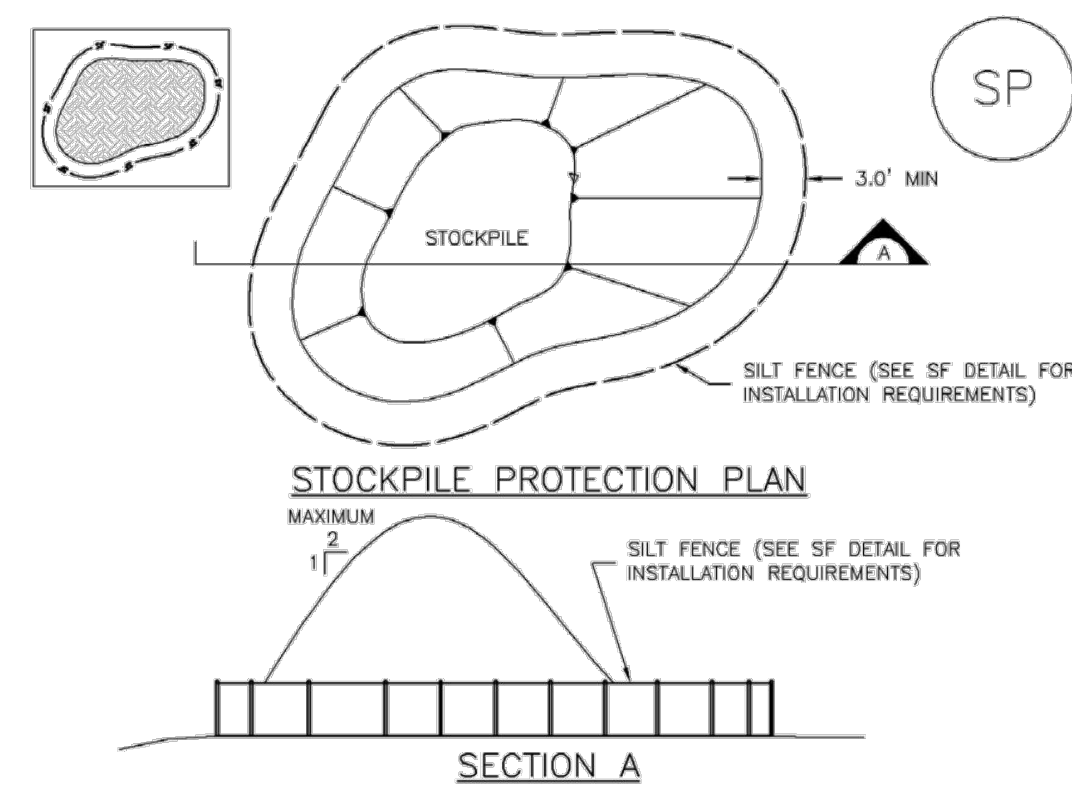
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**Stockpile Management (SP) MM-2**



**STOCKPILE PROTECTION PLAN**

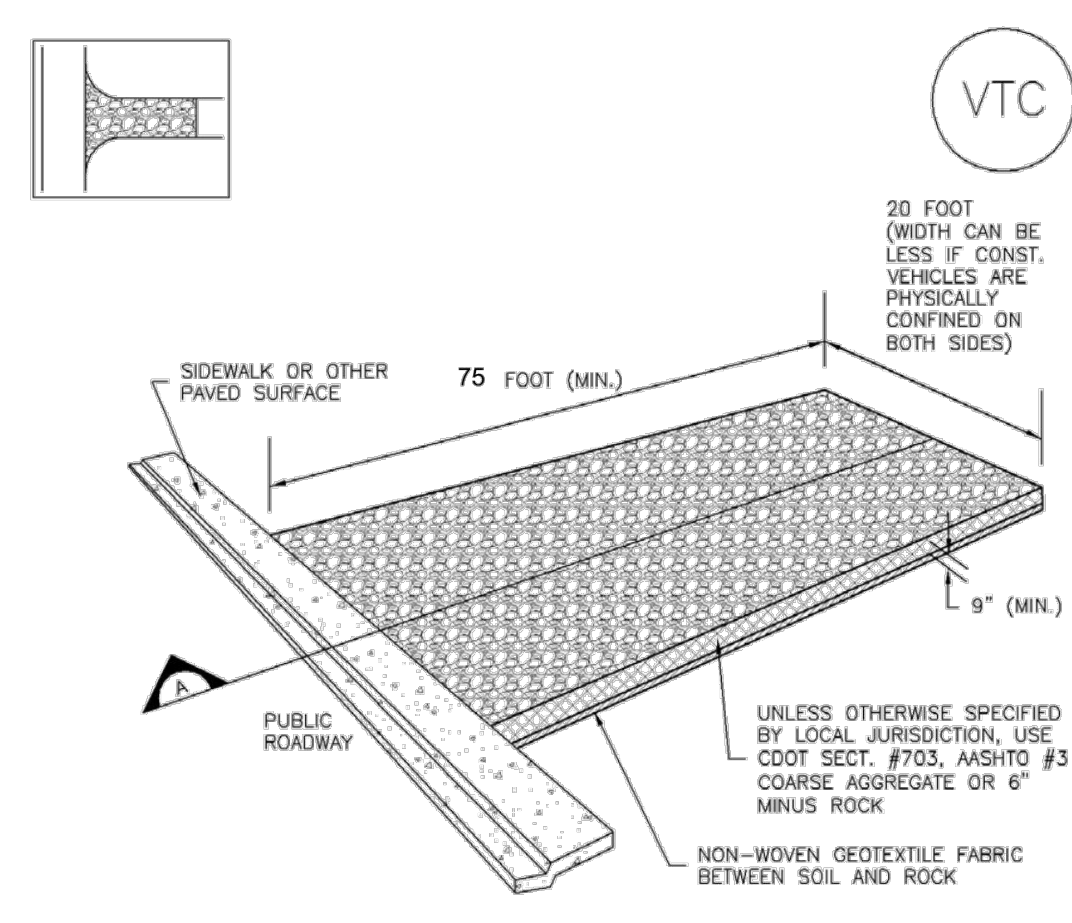
**SECTION A**

**SP-1. STOCKPILE PROTECTION**

- STOCKPILE PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF STOCKPILES.
    - TYPE OF STOCKPILE PROTECTION.
  - 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 IMPVIOUS 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.
  - 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).
  - 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

**Vehicle Tracking Control (VTC) SM-4**



**SECTION A**

**VTC-1. AGGREGATE VEHICLE TRACKING CONTROL**

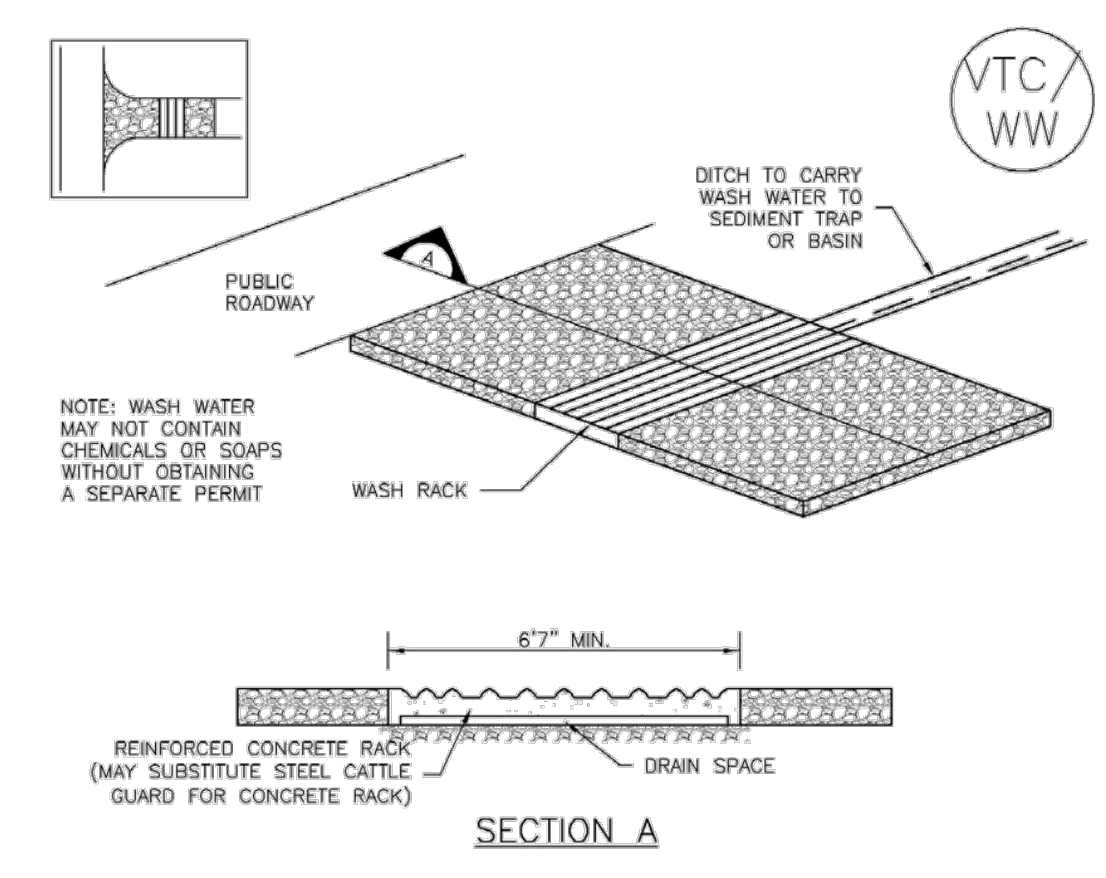
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

**Stockpile Management (SM) MM-2**

- STOCKPILE PROTECTION MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- STOCKPILE PROTECTION MAINTENANCE NOTES**
- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
  - 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

**Vehicle Tracking Control (VTC) SM-4**

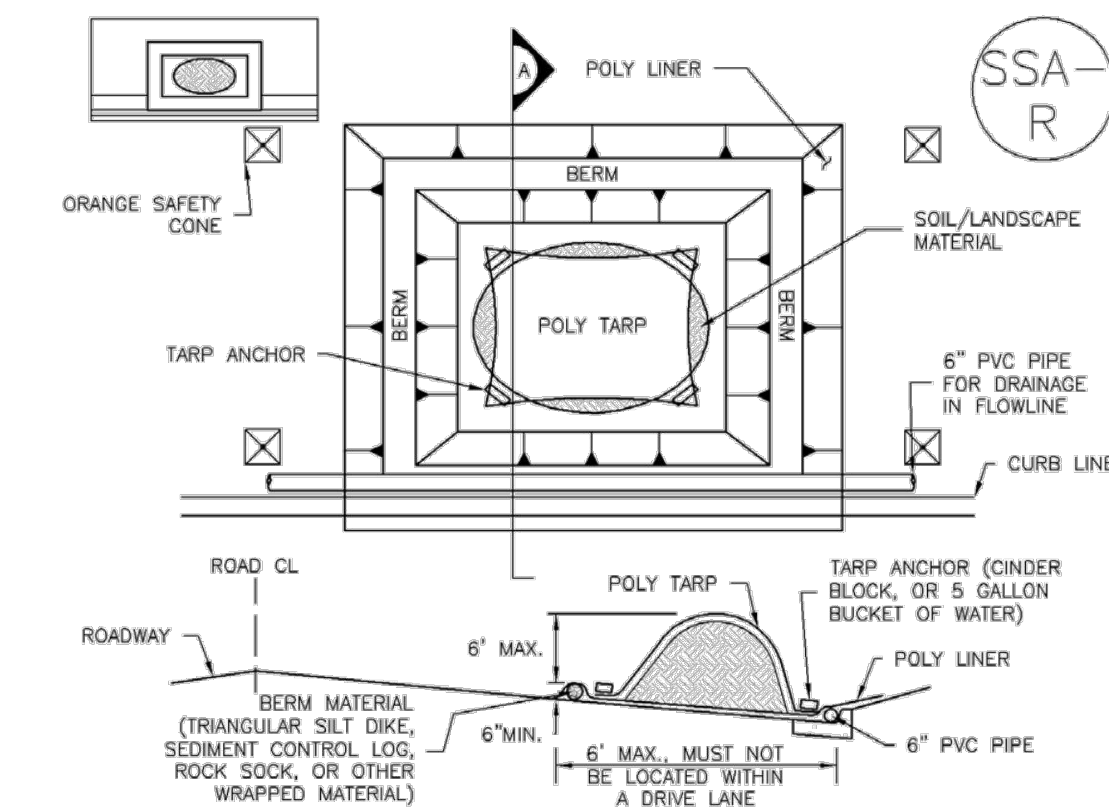


**SECTION A**

**VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK**

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

**Stockpile Management (SP) MM-2**

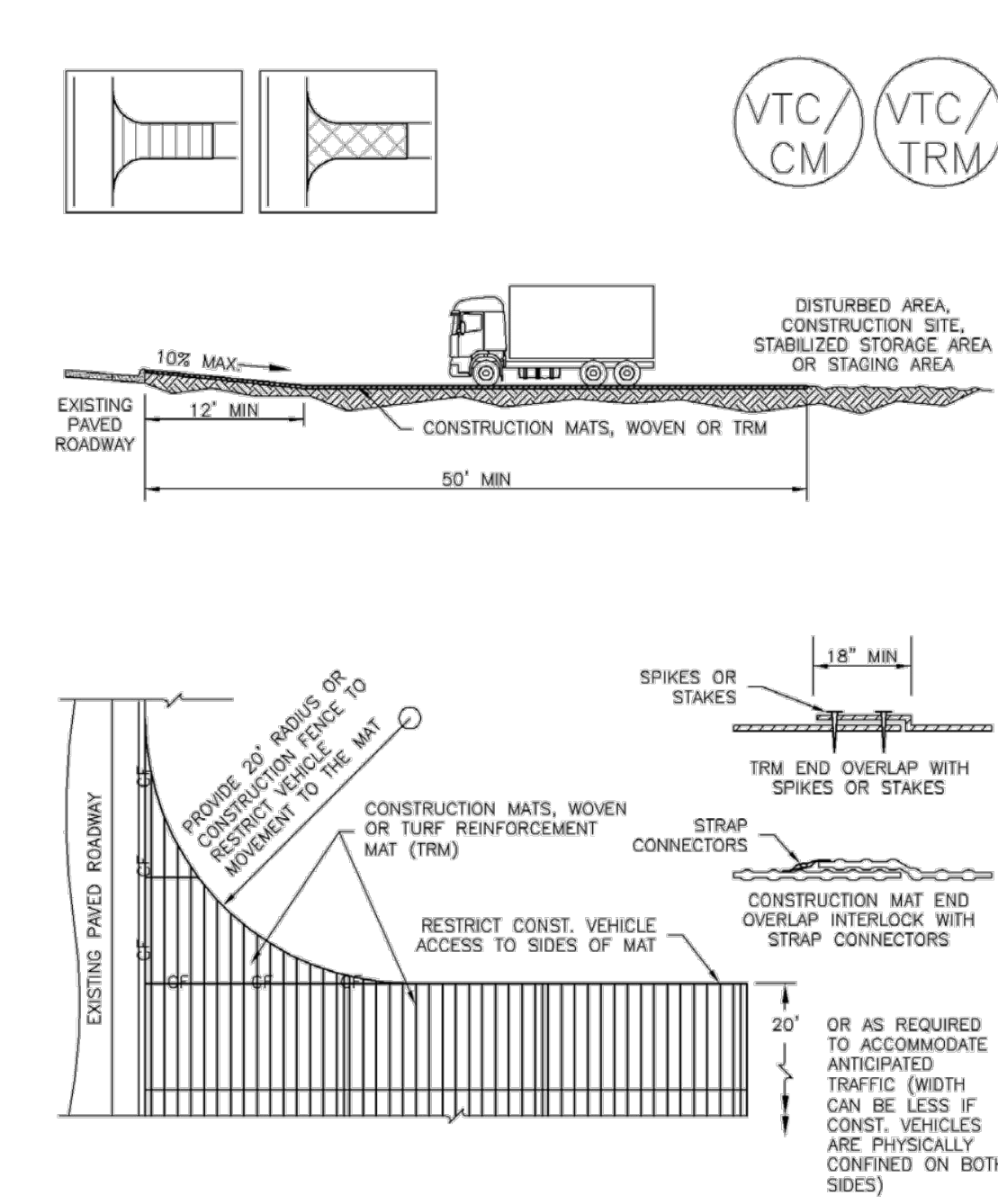


**SP-2. MATERIALS STAGING IN ROADWAY**

- MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF MATERIAL STAGING AREA(S).
    - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
  - FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
  - MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
  - POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
  - SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
  - FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.
  - THIS FEATURE CAN BE USED FOR:
    - UTILITY REPAIRS.
    - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
    - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-5

**Vehicle Tracking Control (VTC) SM-4**



**VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-5

**Stockpile Management (SM) MM-2**

- MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
  - CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.
- 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 AURORA, COLORADO)

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

**Vehicle Tracking Control (VTC) SM-4**

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- 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).
  - 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.
  - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
  - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
  - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
  - 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

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REVISIONS

**Atwell**  
36834  
03/12/24  
PROFESSIONAL ENGINEER

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JOB 21005234

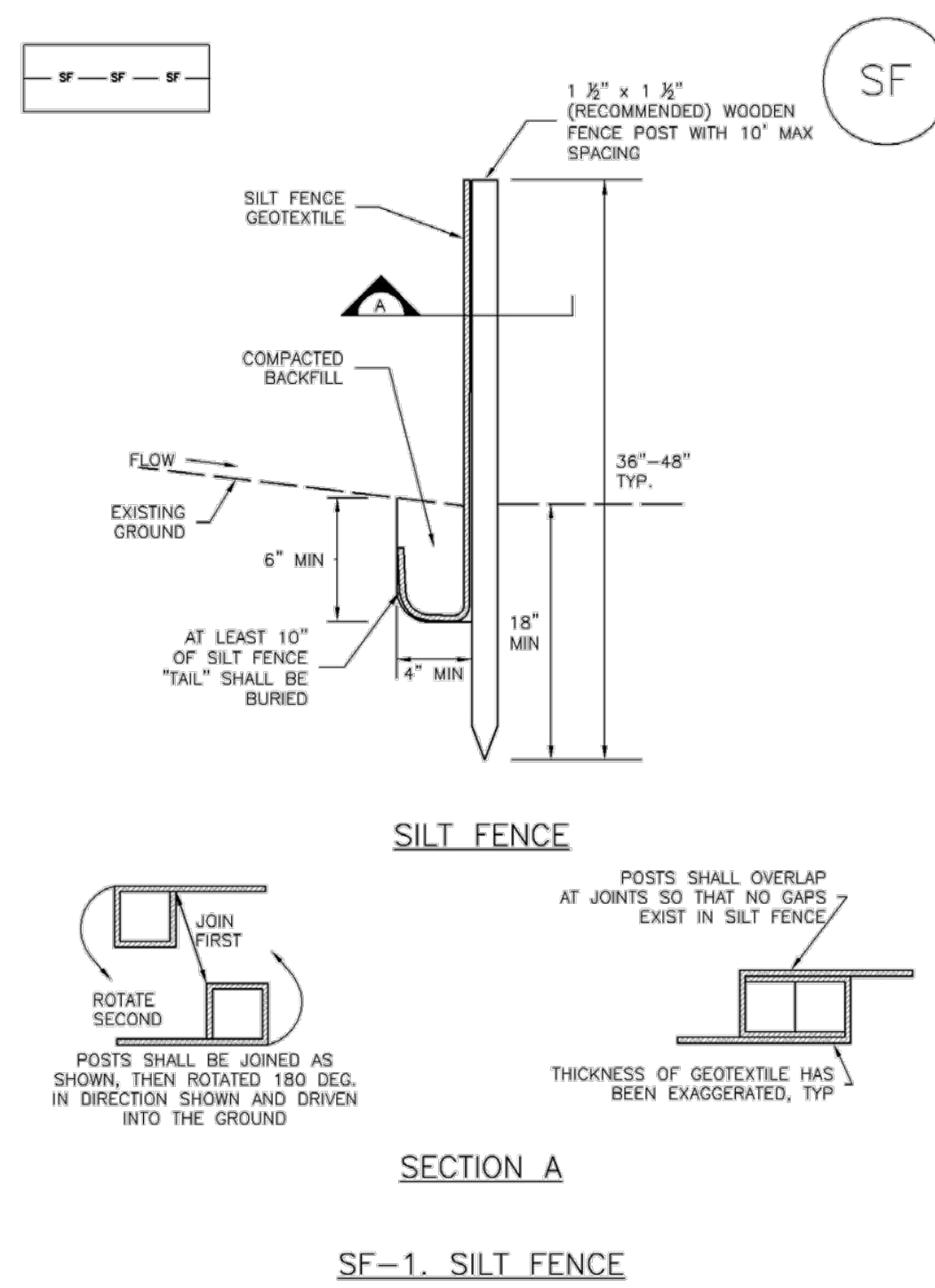
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Silt Fence (SF)

SC-1



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

- 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.
- 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.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- 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.
- 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').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

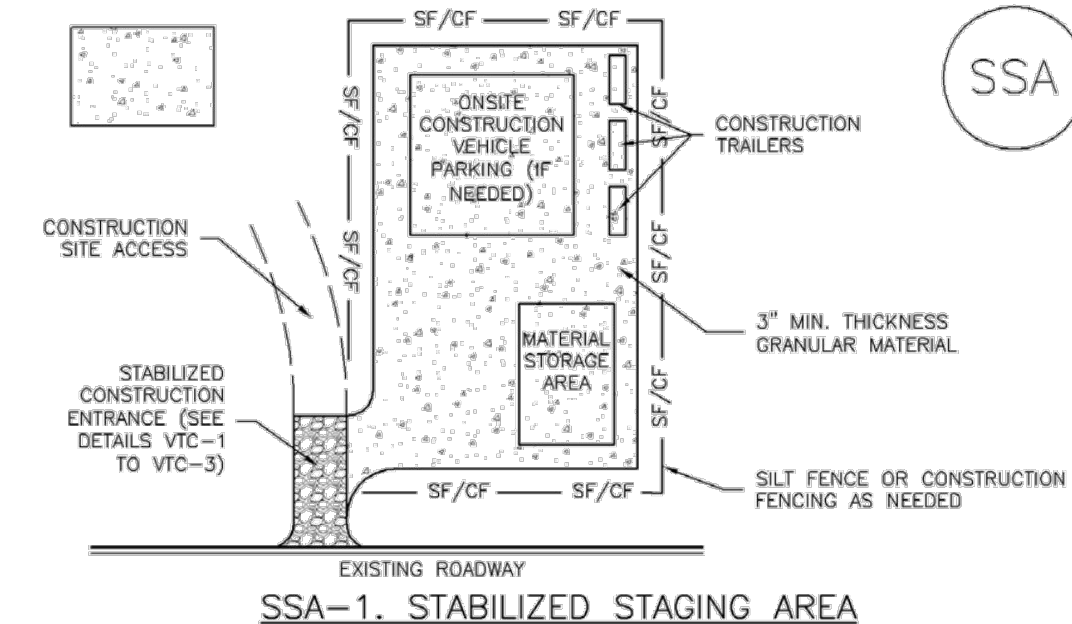
SILT FENCE MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- 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.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

SF-4 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

- SEE PLAN VIEW FOR:
  - LOCATION OF STAGING AREA(S).
  - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, MSHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- 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.

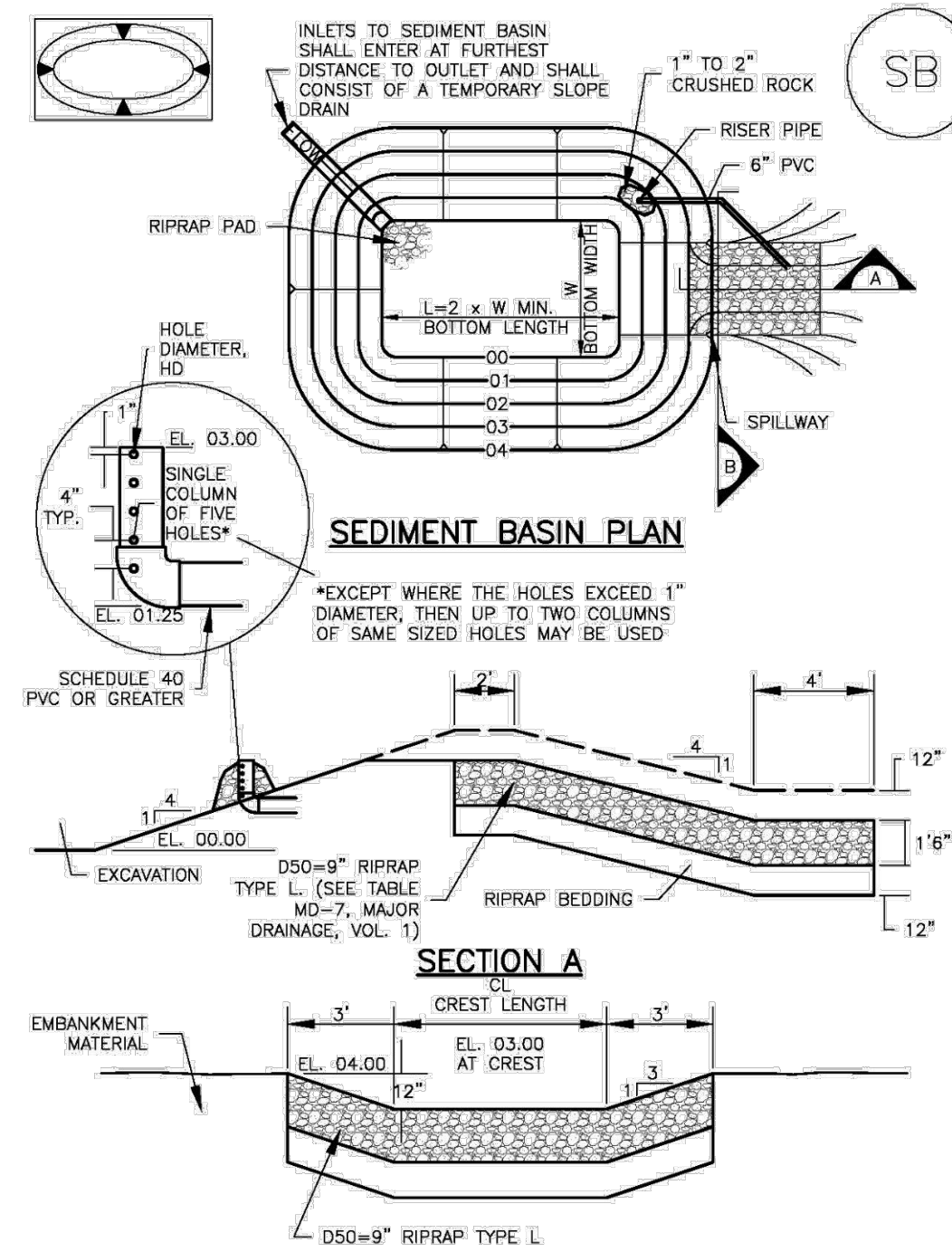
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(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

Sediment Basin (SB)

SC-7



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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	3/16
2	21	3	1/8
3	28	5	3/16
4	33 1/2	6	1/4
5	38 1/2	8	5/16
6	43	9	3/8
7	47 1/2	11	7/16
8	51	12	1/2
9	55	13	9/16
10	58 1/2	15	5/8
11	61	16	3/4
12	64	18	7/8
13	67 1/2	19	1 1/8
14	70 1/2	21	1 1/4
15	73 1/2	22	1 5/8

SEDIMENT BASIN INSTALLATION NOTES

- 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 DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS A STORMWATER CONTROL.
- 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.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- 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.

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

Sediment Basin (SB)

SC-7

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- 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.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-7

**811**  
Know what's below.  
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE FOR ASSURING ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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FALCON HIGHLANDS SOUTH  
EL PASO COUNTY, COLORADO  
CONSTRUCTION PLANS  
GRADING AND EROSION CONTROL PLAN  
DETAIL G/CP

CLIENT

DATE 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/13/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
E	5th SUBMITTAL TO EPC	03/06/2024 - RDL

REVISIONS

**Atwell**  
36834  
03/12/24  
PROFESSIONAL ENGINEER

COUNTY FILE NO.:  
PUDSP-22-005

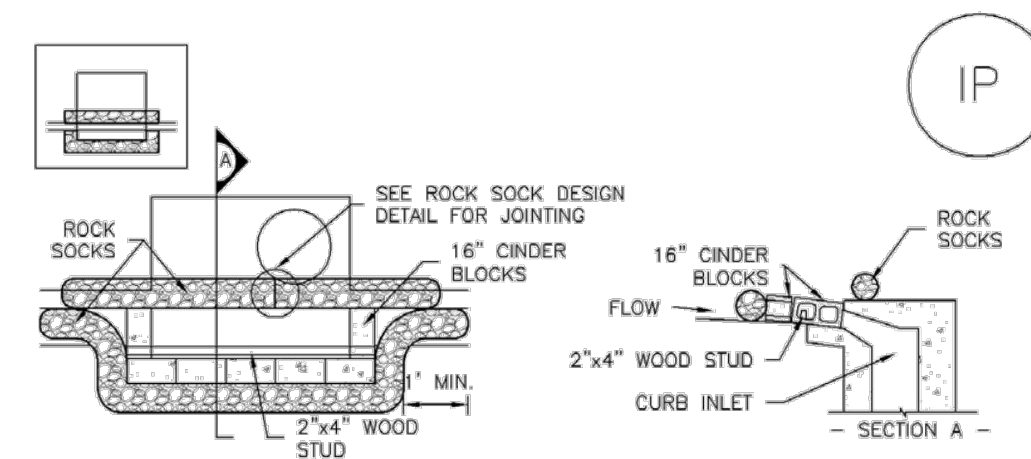
DR. JD CH.  
P.M. RDL

JOB 21005234  
SHEET NO. 16

CAD FILE: 21005234-RECP-DETAILS.DWG



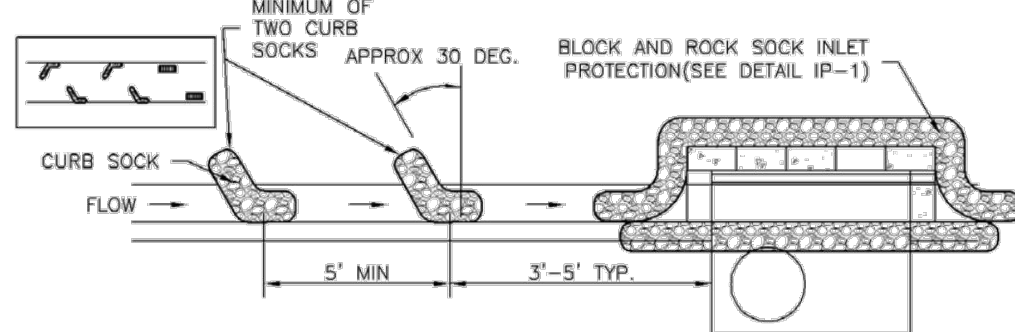
SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON-GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. DOWEL BARS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



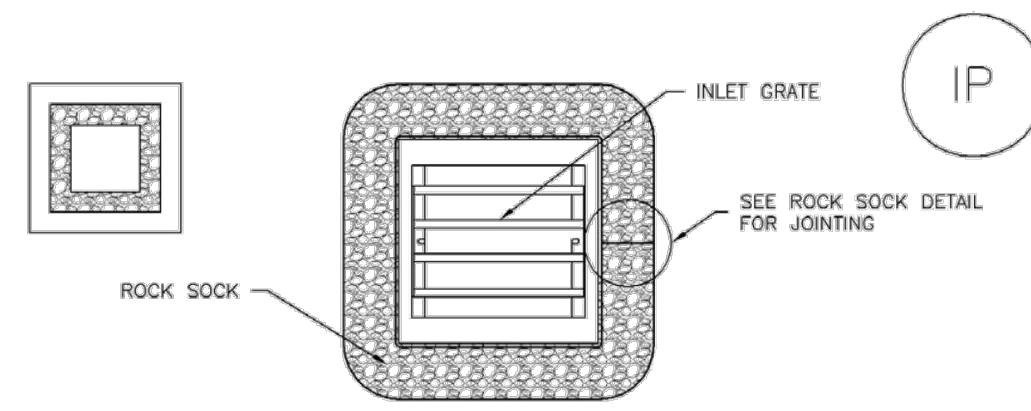
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-4 Urban Drainage and Flood Control District August 2013  
Urban Storm Drainage Criteria Manual Volume 3

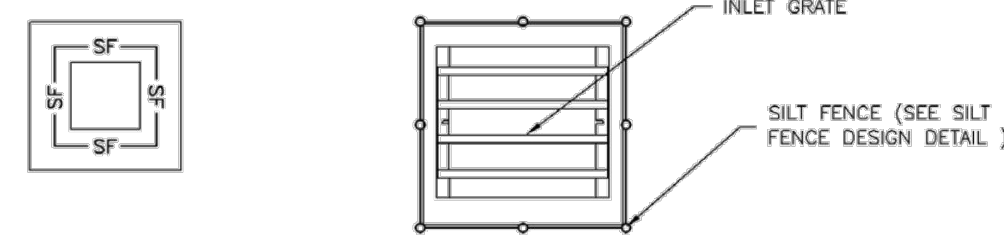
Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



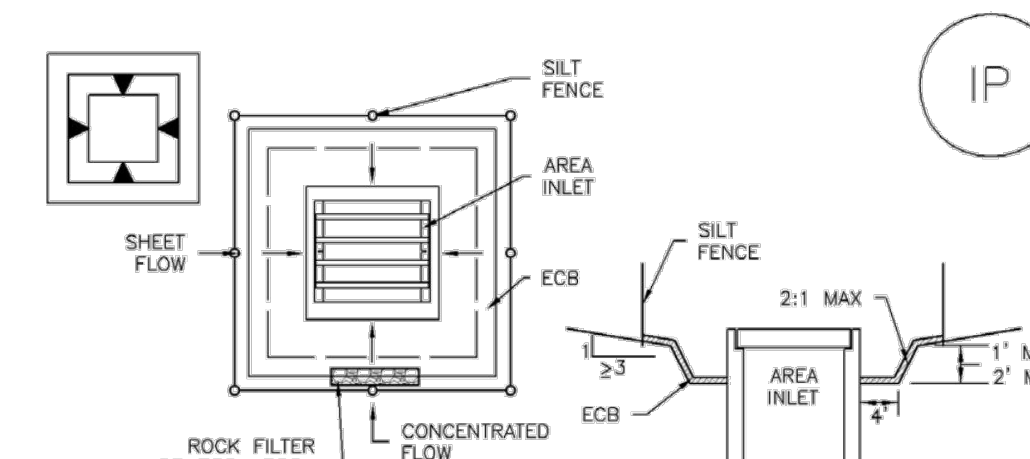
IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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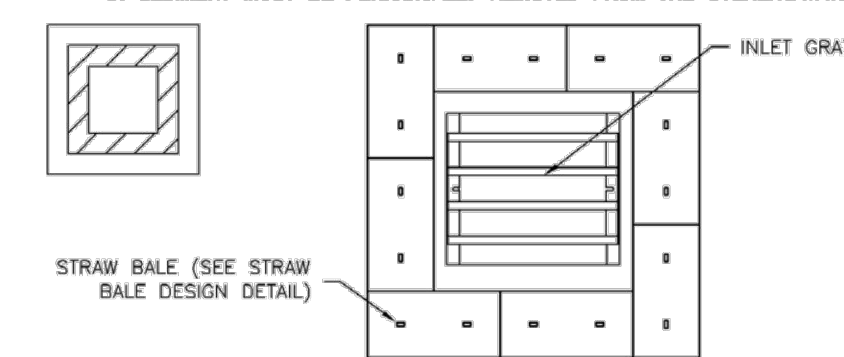
SC-6 Inlet Protection (IP)



IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.
3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.



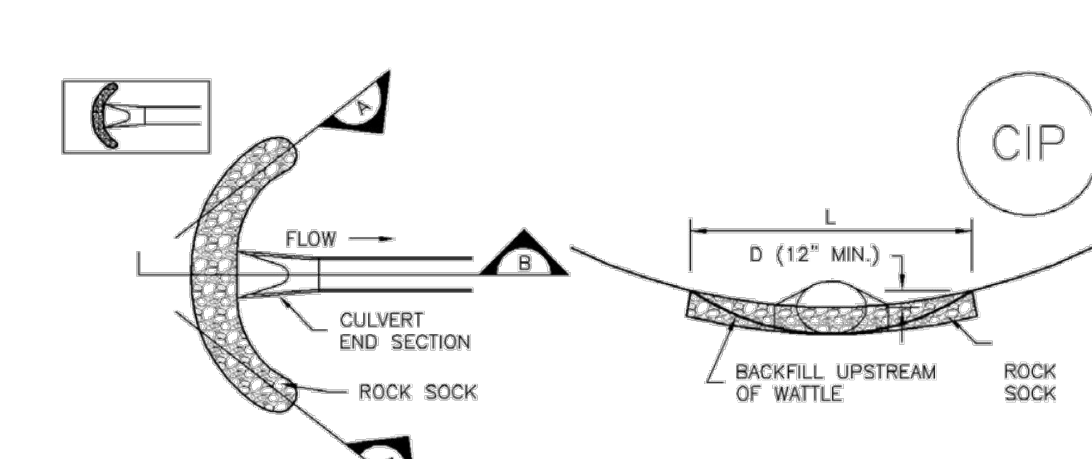
IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

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

Inlet Protection (IP) SC-6



CIP-1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET 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.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM 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.

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Urban Storm Drainage Criteria Manual Volume 3

Mulching (MU) EC-4

Description

Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures. Mulching helps reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff. Although often applied in conjunction with temporary or permanent seeding, it can also be used for temporary stabilization of areas that cannot be reseeded due to seasonal constraints.



Photograph MU-1. An area that was recently seeded, mulched, and crimped.

Mulch can be applied either using standard mechanical dry application methods or using hydromulching equipment that hydraulically applies a slurry of water, wood fiber mulch, and often a tackifier.

Appropriate Uses

Use mulch in conjunction with seeding to help protect the seedbed and stabilize the soil. Mulch can also be used as a temporary cover on low to mild slopes to help temporarily stabilize disturbed areas where growing season constraints prevent effective reseeding. Disturbed areas should be properly mulched and tacked, or seeded, mulched and tacked promptly after final grade is reached (typically within no longer than 14 days) on portions of the site not otherwise permanently stabilized.

Standard dry mulching is encouraged in most jurisdictions; however, hydromulching may not be allowed in certain jurisdictions or may not be allowed near waterways.

Do not apply mulch during windy conditions.

Design and Installation

Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical because track walking with heavy equipment typically compacts the soil.

A variety of mulches can be used effectively at construction sites. Consider the following:

Mulch	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material Management	No

June 2012 Urban Drainage and Flood Control District MU-1  
Urban Storm Drainage Criteria Manual Volume 3

Mulching (MU) EC-4

- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches unless dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.
- Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to dry; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.
- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or exoelcor can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

Maintenance and Removal

After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.

MU-2 Urban Drainage and Flood Control District June 2012  
Urban Storm Drainage Criteria Manual Volume 3

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species* (Common name)	Growth Season*	Pounds of Pure Live Seed (PLS)/acre <sup>c</sup>	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	1/2
5. Millet	Warm	3 - 15	1/2 - 3/4
6. Winter wheat	Cool	20-35	1 - 2
7. Winter barley	Cool	20-35	1 - 2
8. Winter rye	Cool	20-35	1 - 2
9. Triticale	Cool	25-40	1 - 2

\* Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

<sup>b</sup> See Table TS/PS-2 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

<sup>c</sup> Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

TS/PS-4 Urban Drainage and Flood Control District January 2021  
Urban Storm Drainage Criteria Manual Volume 3

Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Seeding Dates for Annual and Perennial Grasses

Seeding Dates	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
	Warm	Cool	Warm	Cool
January 1-March 15			✓	✓
March 16-April 30		1,2,3	✓	✓
May 1-May 15			✓	
May 16-June 30	5			
July 1-July 15	5			
July 16-August 31				
September 1-September 30		6, 7, 8, 9		
October 1-December 31			✓	✓

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the USDCM Volume 2 *Revegetation* Chapter and Volume 3 *Mulching BMP Fact Sheet (EC-04)* for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

If a temporary annual seed was planted, the area should be reseeded with the desired perennial mix when there will be no further work in the area. To minimize competition between annual and perennial species, the annual mix needs time to mature and die before seeding the perennial mix. To increase success of the perennial mix, it should be seeded during the appropriate seeding dates the second year after the temporary annual mix was seeded. Alternatively, if this timeline is not feasible, the annual mix seed heads should be removed and then the area seeded with the perennial mix.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

January 2021 Urban Drainage and Flood Control District TS/PS-5  
Urban Storm Drainage Criteria Manual Volume 3



Know what's below. Call before you dig. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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EL PASO COUNTY, COLORADO  
CONSTRUCTION PLANS  
GRADING AND EROSION CONTROL PLAN  
DETAIL GECP

CLIENT

DATE 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/17/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/02/2023 - RDL
E	5th SUBMITTAL TO EPC	03/06/2024 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR. JD CH.  
P.M. RDL

JOB 21005234  
SHEET NO.