

EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

**AGENCIES :**

**DEVELOPER**  
CHARLES M. MCALLISTER  
PO BOX 6797  
COLORADO SPRINGS, CO 80934  
(719) 338-5223

**CIVIL ENGINEER**  
PREMIER ENGINEERING, INC  
2110 VICKERS DRIVE  
COLORADO SPRINGS, COLORADO 80918  
JEFFREY C JUREW, P E  
(719) 598-6951

**ENGINEERING DIVISION**  
EL PASO COUNTY  
DEVELOPMENT SERVICES  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, CO 80910  
(719) 520-6300

**ELECTRIC DIVISION**  
MOUNTAINVIEW ELECTRIC ASSOCIATION  
11140 E WOODMEN ROAD  
FALCON, COLORADO 80831  
(719) 495-2283

**TELEPHONE COMPANY**  
U S WEST COMMUNICATIONS  
(LOCATIONS) (800) 922-1987  
A T S T  
(LOCATIONS) (719) 635-3874

Unresolved:  
Change to:  
Review Agency

UPDATED BY:  
M.V.E., INC.  
1903 LELARAY STREET, SUITE 200  
COLORADO SPRINGS, CO 80909  
(719) 635-5736

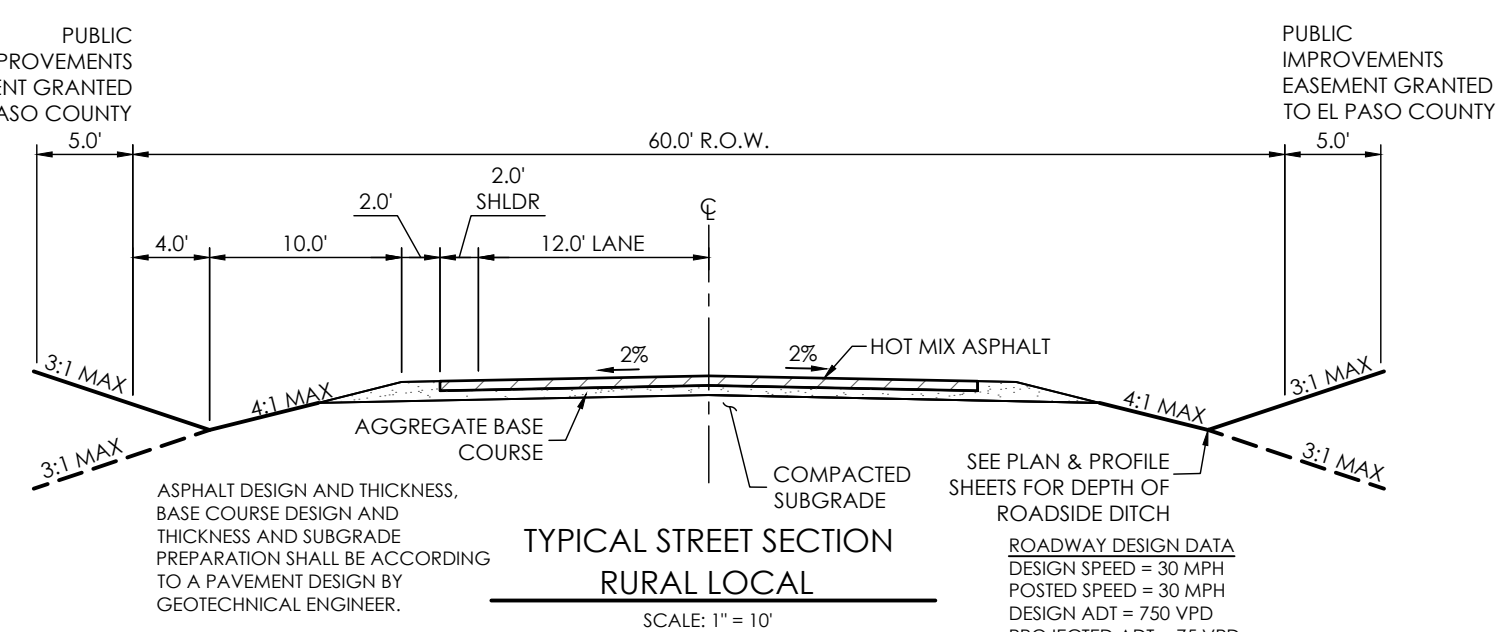
# THE LANDINGS OF DENMARK

## FILING NO. 2 - UPDATED PLANS

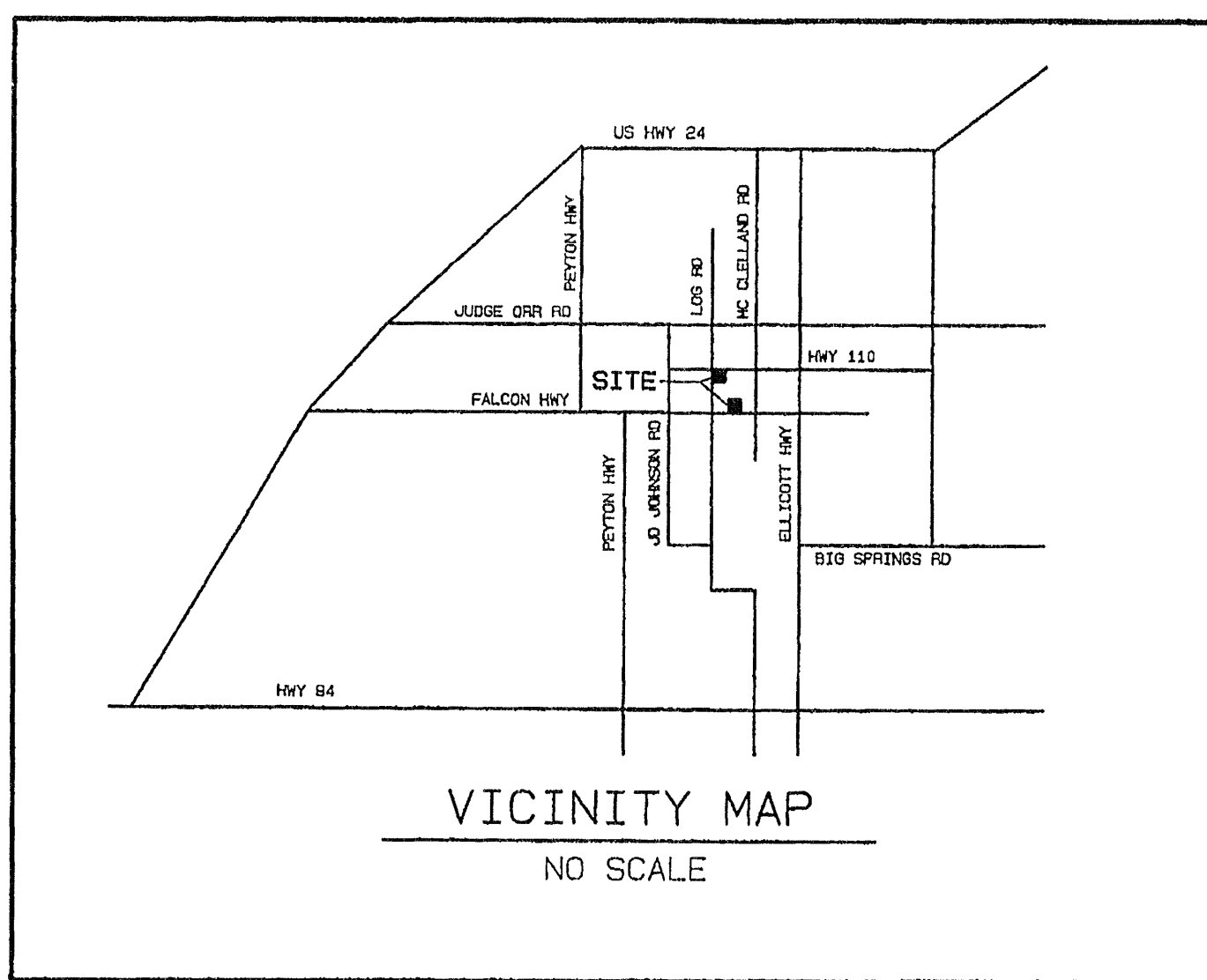
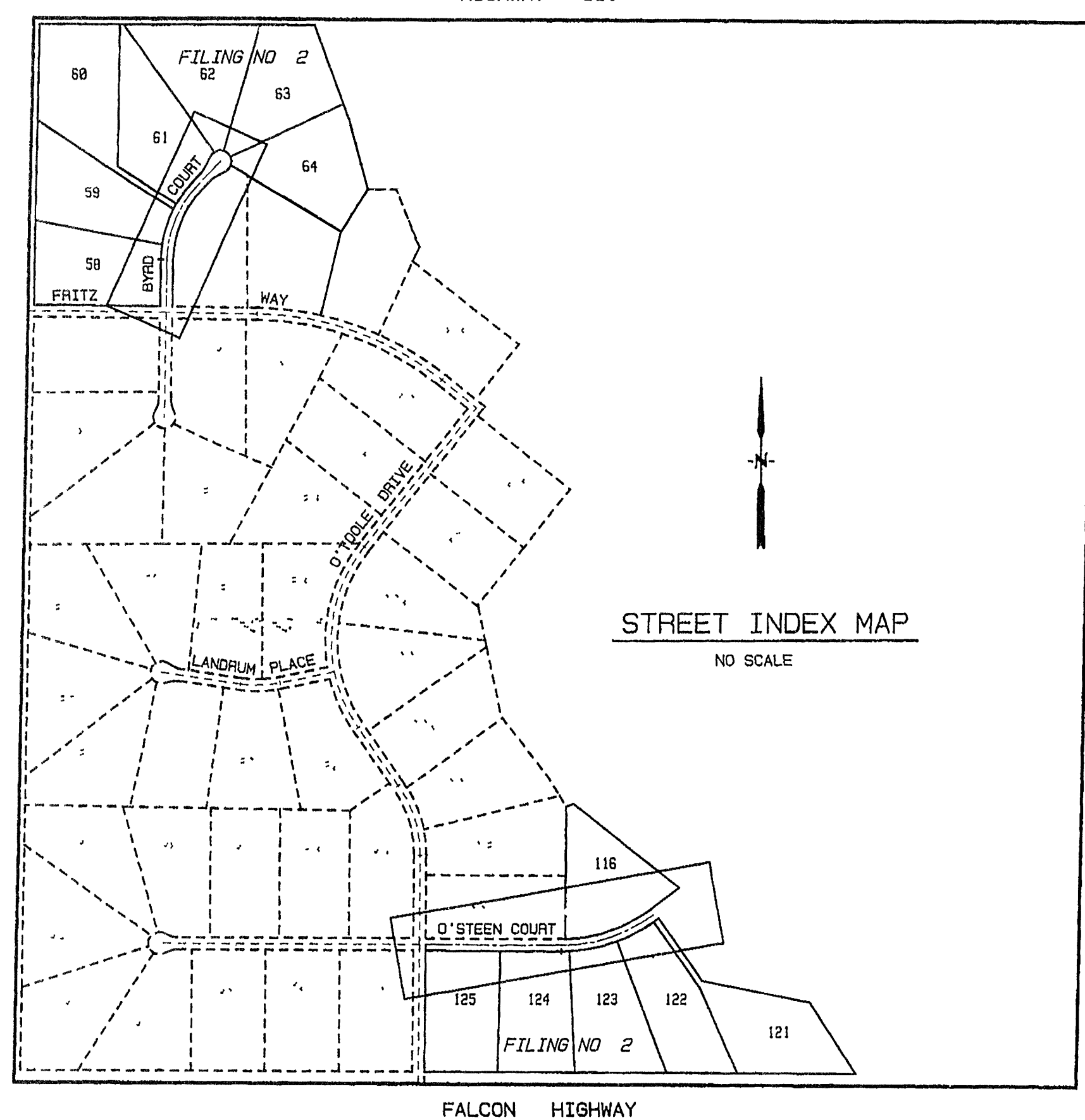
### COUNTY OF EL PASO, STATE OF COLORADO

## GRADING & EROSION CONTROL PLAN

UPDATED



HIGHWAY 110



**GENERAL NOTES**

1. ALL NEW CONSTRUCTION IS TO CONFORM TO THE SPECIFICATIONS OF EL PASO COUNTY.
2. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DETERMINED FROM AVAILABLE RECORDS AND/OR SURFACE EVIDENCE. THE LOCATION OF ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND LOCATIONS HAVE NOT BEEN PERFORMED. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE DETERMINED APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL SUBSURFACE UTILITY OWNERS PRIOR TO BEGINNING WORK TO DETERMINE LOCATION OF UTILITY FACILITIES. ALL UTILITIES SHALL BE FULLY LOCATED PRIOR TO ANY EARTH WORK OR DIGGING (1-800-922-1987). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
3. EXISTING CONDITIONS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. SOIL PREPARATION, SEEDING, AND MULCHING FOR AN ESTIMATED 3.3 ACRES WILL BE REQUIRED ON ALL DISTURBED AREAS NOT SURFACED. THE FOLLOWING TYPES AND RATES SHALL BE USED:

GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACR.
WEDGERS CRAMA	EL RENO	3.0 lbs.
WESTERN WHEATGRASS	BARTON	2.5 lbs.
SLENDER WHEAT GRASS	NATIVE	2.0 lbs.
LITTLE BLUESTEM	PASTURA	2.0 lbs.
SAND DROPSSEED	NATIVE	0.5 lbs.
SWITCH GRASS	NEBRASKA 28	3.0 lbs.
WHEEPING LOVE GRASS	MORPHA	1.0 lbs.
	TOTAL	14.0 lbs.

Unresolved:  
To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

5. SEEDING APPLICATION: DRILLED TO A DEPTH OF .25" TO .50" INTO SOIL WHERE POSSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
6. MULCHING REQUIREMENT AND APPLICATION: 2.0 TONS PER ACRE NATIVE MAY MECHANICALLY CRIMPED INTO SOIL.
7. ALL STORM DRAIN SHALL BE REINFORCED CONCRETE PIPE. ALL CURBS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ALL STORM DRAIN FITTINGS AND BENDS SHALL BE PRE-CAST. STORM DRAIN PIPE MAY ALSO BE CORRUGATED METAL OR HDPE. PLACED IN ACCORDANCE WITH EL PASO COUNTY SPECIFICATIONS.
8. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION MEETING FIELD PRIOR TO CONSTRUCTION WITH EPC-PCD, ENGINEER, AND CONTRACTOR IN ATTENDANCE.
9. CONTRACTOR IS RESPONSIBLE FOR ALL OF HIS OPERATIONS ON THE SITE. CONTRACTOR SHALL OBSERVE ALL SAFETY AND OSHA REGULATIONS DURING CONSTRUCTION OPERATIONS. TRENCH WIDTHS AND SLOPE ANGLES SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND ACCORDING TO SAFETY AND OSHA REGULATIONS.
10. ALL NECESSARY PERMITS, SUCH AS SWMP, FUGITIVE DUST, ACCESS, C.O.E. 404, ESQCP PERMIT, ETC. SHALL BE OBTAINED PRIOR TO CONSTRUCTION.
11. THERE IS NO NOTABLE VEGETATION ON SITE. GROUND COVER IS FAIR TO GOOD WITH NATIVE GRASSES/WEEDS.
12. 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.
13. 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.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER 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.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. 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.
17. 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.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. 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 APURTANCES AS A RESULT OF SITE DEVELOPMENT.
20. 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.
21. 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 EGM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. 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.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. 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 I AND THE EGM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, PERMITS FOR FUGITIVE DUST, ETC. IN THE EVENT OF CONFLICT 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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. 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.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY SOIL TESTING AND ENGINEERING INC., DATE FEBRUARY 24, 2009 AND SHALL BE CONSIDERED A PART OF THESE PLANS.

**STANDARD EL PASO COUNTY GRADING & EROSION CONTROL PLAN NOTES**

1. 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.
2. 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.
3. 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. THE SWMP SHALL BE 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.
4. 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 PRE-CONSTRUCTION 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.
5. 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.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. 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.
8. 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.
9. 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 EGM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. 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. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 30 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY 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).

29. 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 CONTROL PLAN (WQCP) 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  
WQCD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1533  
ATTN: PERMITS UNIT

**STANDARD EL PASO COUNTY CONSTRUCTION PLAN NOTES**

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:  
a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)  
b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2  
c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
d. CDOT M & S STANDARDS
4. 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. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGING CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY DSD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

Unresolved:  
PCD.

Unresolved:  
DPW

Unresolved:  
ROW

**DEVELOPER'S STATEMENT**

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

PHIL HOWERTON  
THE LANDINGS OF DENMARK, LLC  
930 N. MURRAY BLVD.  
COLORADO SPRINGS, CO 80831

**ENGINEER'S STATEMENT**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND 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.

DAVID R. GORMAN, P.E. COLORADO NO. 31672 DATE \_\_\_\_\_  
FOR AND ON BEHALF OF M.V.E., INC.

**EL PASO COUNTY DEPARTMENT OF TRANSPORTATION**

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.

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 EGM 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 DIRECTORS DISCRETION.

JOSHUA PALMER, P.E.  
COUNTY ENGINEER / EGM ADMINISTRATOR

SHEET 1 OF 4

TITLE:  
**GRADING & EROSION CONTROL PLAN**

DRAWING NO.  
**GEC-CS-61108**

MVE PROJ. NO.  
**61108**

DRAWN: **JO**

ENGINEER: **DRG**

CHECKED: **12/29/22**

UPDATED BY  
**MONUMENT VALLEY ENGINEERS INC.**

ENGINEERS + SURVEYORS  
1903 LELARAY STREET, SUITE 200  
COLORADO SPRINGS, CO 80909  
Phone (719) 635-5736  
Fax (719) 635-6450  
E-mail mve@mcivil.com

**PREMIER ENGINEERING, INC.**  
Professional Civil Engineers  
2110 Vickers Drive  
Colorado Springs, CO 80918  
(719) 598 6951  
PremierEng@aol.com

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1-800-922-1987

Please add \*PCD File No. CDR-22-012\*

Unresolved: define hatching in legend

PS no longer in the legend. Add to legend or change to SM.

Unresolved: Show 100-Year WSEL and the symbol on Legend.

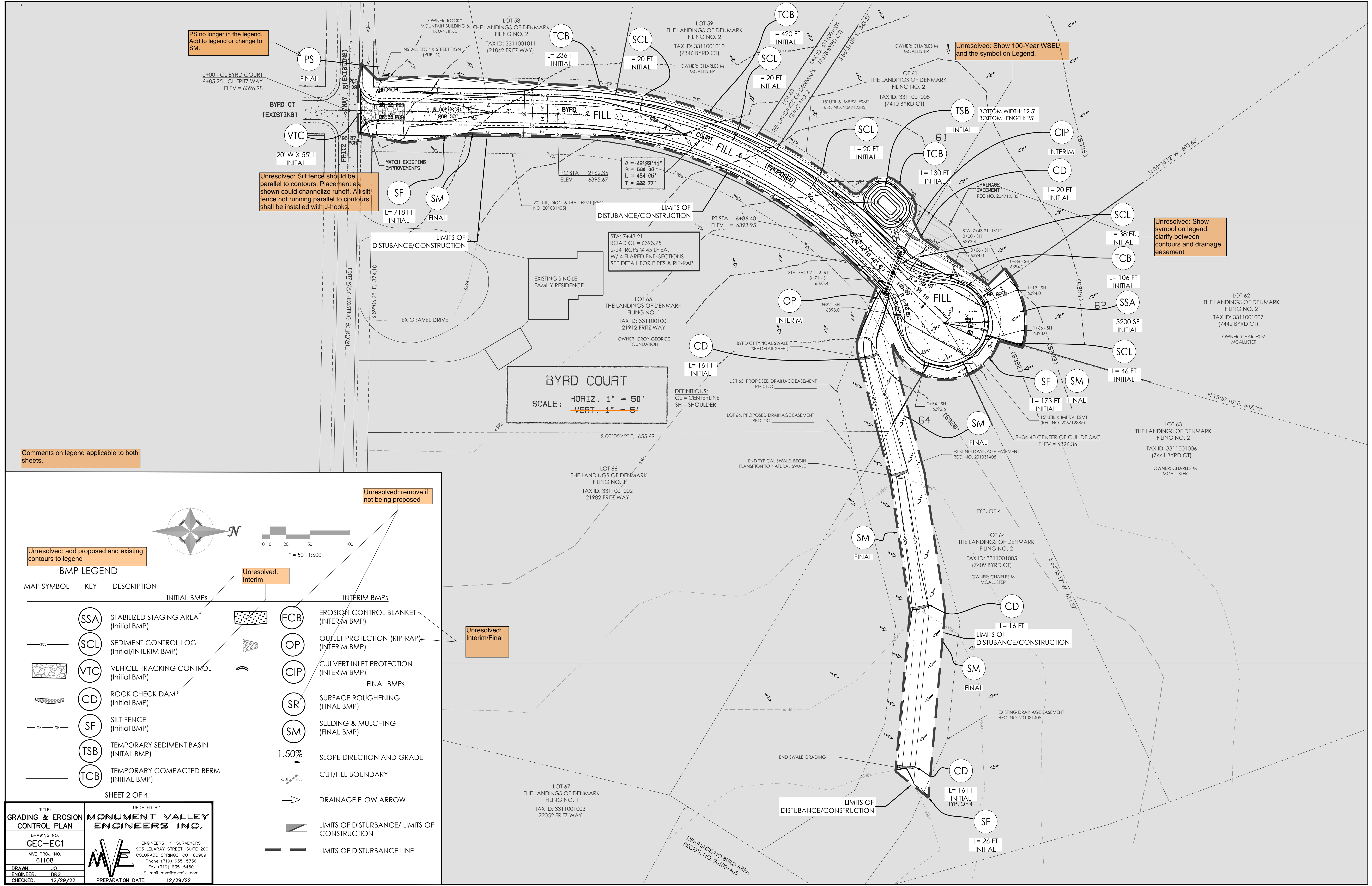
Unresolved: Silt fence should be parallel to contours. Placement as shown could channelize runoff. All silt fence not running parallel to contours shall be installed with J-hooks.

Unresolved: Show symbol on legend. Clarify between contours and drainage easement

Comments on legend applicable to both sheets.

Unresolved: remove if not being proposed

Unresolved: Interim/Final



**BYRD COURT**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

Unresolved: add proposed and existing contours to legend

Unresolved: Interim

MAP SYMBOL	KEY	DESCRIPTION
(SSA)	INITIAL BMPs	STABILIZED STAGING AREA (Initial BMP)
(SCL)	INITIAL BMPs	SEDIMENT CONTROL LOG (Initial/INTERIM BMP)
(VTC)	INITIAL BMPs	VEHICLE TRACKING CONTROL (Initial BMP)
(CD)	INITIAL BMPs	ROCK CHECK DAM (Initial BMP)
(SF)	INITIAL BMPs	SILT FENCE (Initial BMP)
(TSB)	INITIAL BMPs	TEMPORARY SEDIMENT BASIN (Initial BMP)
(TCB)	INITIAL BMPs	TEMPORARY COMPACTED BERM (Initial BMP)
(ECB)	INTERIM BMPs	EROSION CONTROL BLANKET (INTERIM BMP)
(OP)	INTERIM BMPs	OUTLET PROTECTION (RIP-RAP) (INTERIM BMP)
(CIP)	INTERIM BMPs	CULVERT INLET PROTECTION (INTERIM BMP)
(SR)	FINAL BMPs	SURFACE ROUGHENING (FINAL BMP)
(SM)	FINAL BMPs	SEEDING & MULCHING (FINAL BMP)
1.50%	FINAL BMPs	SLOPE DIRECTION AND GRADE
CUT/FILL	FINAL BMPs	CUT/FILL BOUNDARY
→	FINAL BMPs	DRAINAGE FLOW ARROW
---	FINAL BMPs	LIMITS OF DISTURBANCE/ LIMITS OF CONSTRUCTION
---	FINAL BMPs	LIMITS OF DISTURBANCE LINE

TITLE: GRADING & EROSION CONTROL PLAN  
 DRAWING NO. GEC-EC1  
 MVE PROJ. NO. 61108  
 DRAWN: JJO  
 ENGINEER: DRG  
 CHECKED: 12/29/22

UPDATED BY: MONUMENT VALLEY ENGINEERS INC.  
 ENGINEERS \* SURVEYORS  
 1903 LELARAY STREET, SUITE 200  
 COLORADO SPRINGS, CO 80909  
 Phone (719) 635-5736  
 Fax (719) 635-5450  
 E-mail mve@mvecivil.com

PREPARATION DATE: 12/29/22

SHEET 2 OF 4

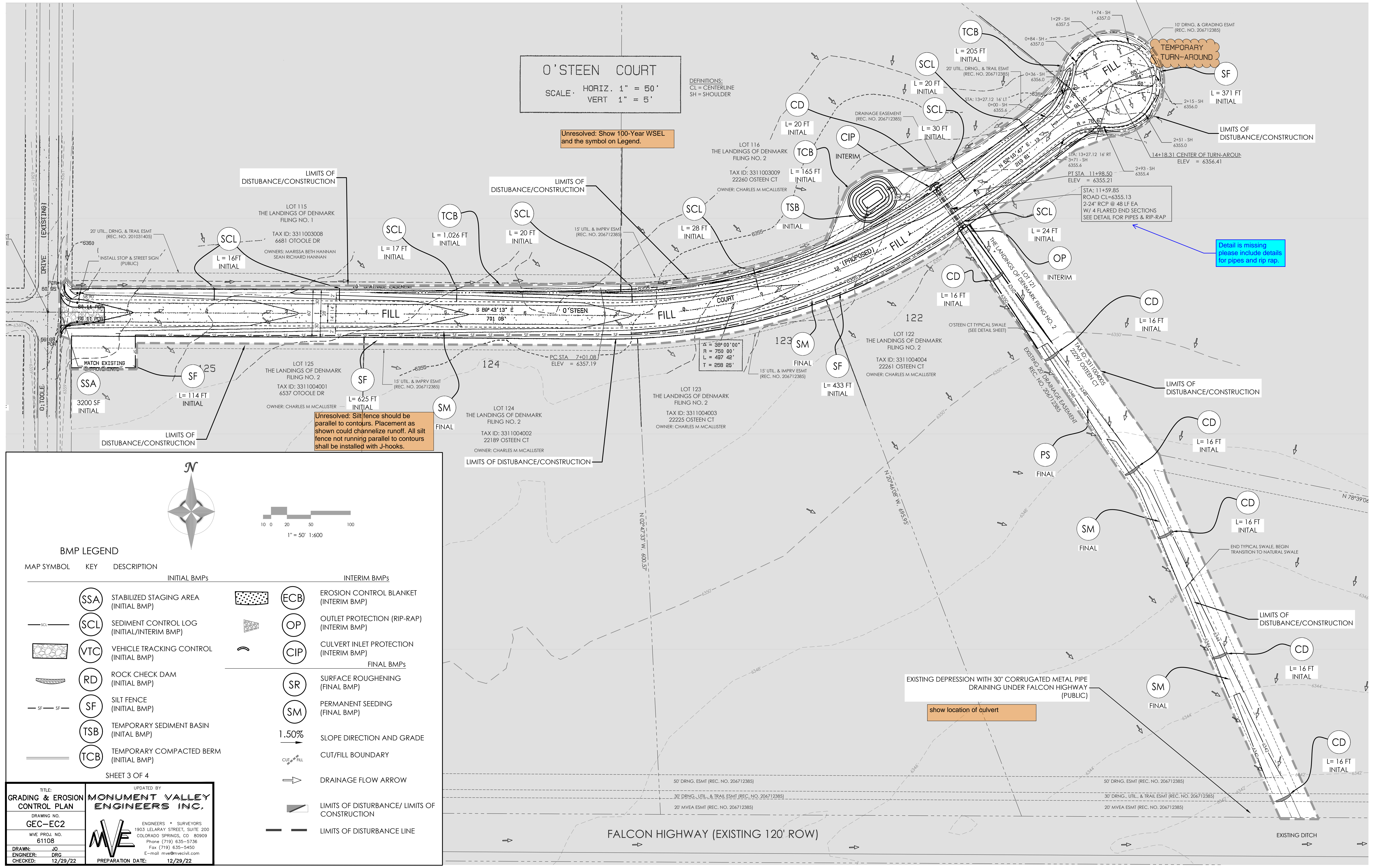
O'STEEN COURT  
 SCALE: HORIZ. 1" = 50'  
 VERT 1" = 5'

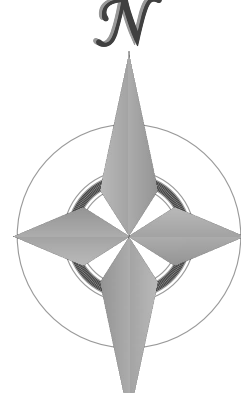
Unresolved: Show 100-Year WSEL and the symbol on Legend.

Unresolved: Silt fence should be parallel to contours. Placement as shown could channelize runoff. All silt fence not running parallel to contours shall be installed with J-hooks.

Detail is missing please include details for pipes and rip rap.

show location of culvert





1" = 50' 1:600

MAP SYMBOL	KEY	DESCRIPTION
(SSA)	SSA	STABILIZED STAGING AREA (INITIAL BMP)
(SCL)	SCL	SEDIMENT CONTROL LOG (INITIAL/INTERIM BMP)
(VTC)	VTC	VEHICLE TRACKING CONTROL (INITIAL BMP)
(RD)	RD	ROCK CHECK DAM (INITIAL BMP)
(SF)	SF	SILT FENCE (INITIAL BMP)
(TSB)	TSB	TEMPORARY SEDIMENT BASIN (INITIAL BMP)
(TCB)	TCB	TEMPORARY COMPACTED BERM (INITIAL BMP)
(ECB)	ECB	EROSION CONTROL BLANKET (INTERIM BMP)
(OP)	OP	OUTLET PROTECTION (RIP-RAP) (INTERIM BMP)
(CIP)	CIP	CULVERT INLET PROTECTION (INTERIM BMP)
(SR)	SR	SURFACE ROUGHENING (FINAL BMP)
(SM)	SM	PERMANENT SEEDING (FINAL BMP)
1.50%	1.50%	SLOPE DIRECTION AND GRADE
CUT/FILL	CUT/FILL	CUT/FILL BOUNDARY
→	→	DRAINAGE FLOW ARROW
---	---	LIMITS OF DISTURBANCE/ LIMITS OF CONSTRUCTION
---	---	LIMITS OF DISTURBANCE LINE

SHEET 3 OF 4

TITLE: GRADING & EROSION CONTROL PLAN  
 DRAWING NO. GEC-EC2  
 MVE PROJ. NO. 61108  
 DRAWN: JO  
 ENGINEER: DRG  
 CHECKED: 12/29/22

UPDATED BY: MONUMENT VALLEY ENGINEERS INC.  
 ENGINEERS & SURVEYORS  
 1903 LELARAY STREET, SUITE 200  
 COLORADO SPRINGS, CO 80909  
 Phone (719) 635-5736  
 Fax (719) 635-5450  
 E-mail mve@monvalley.com

PREPARATION DATE: 12/29/22

Unresolved: provide the following details:  
- Stockpile

**CHECK DAM ELEVATION VIEW**

**SECTION A-A'**

**SECTION B-B'**

**PROFILE**

**INSTALLATION NOTES**

- CHECK DAMS SHOULD BE INSTALLED BEFORE UPSTREAM LAND DISTURBING ACTIVITIES. RIPRAP PAD SHOULD BE TRENCHED INTO GROUND BY A MINIMUM OF 6".
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE HEIGHT OF THE CHECK DAM CREST.
- CHECK DAMS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER CHECK DAMS ARE REMOVED IF REMOVAL IS REQUIRED.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE HEIGHT OF THE CHECK DAM CREST.
- CHECK DAMS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER CHECK DAMS ARE REMOVED IF REMOVAL IS REQUIRED.

**CD**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-CD

**CULVERT INLET PROTECTION PLAN**

**SECTION A-A'**

**SECTION B-B'**

**INSTALLATION NOTES**

- SEE ROCK SOCK DETAIL.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 HEIGHT OF THE ROCK SOCK.
- CULVERT INLET PROTECTION SHALL REMAIN UNTIL THE UPSTREAM AREA IS PERMANENTLY STABILIZED.

**CIP**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-CIP

**ROCK SOCK SECTION**

**ROCK SOCK OVERLAP**

**GRADATION TABLE**

NO.	MASS PERCENT PASSING SQUARE MESH SIEVES
1	100
2	90-100
3	20-55
4	0-15
5	0-5

**INSTALLATION NOTES**

- CRUSHED ROCK SHALL BE BETWEEN MAX. 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. 3/4" CRUSHED ROCK.
- WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
- WIRE MESH SHALL BE SECURED USING 'HOG RINGS' OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES 1/2 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

**RS**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-RS

**SEDIMENT CONTROL LOG**

**SECTION A-A'**

**SEDIMENT CONTROL LOG JOINTS**

**INSTALLATION NOTES**

- ALL SEDIMENT CONTROL LOGS MUST BE EMBEDDED TO 1/2 OF THE HEIGHT OF THE LOG.
- LARGER DIAMETER SEDIMENT CONTROL LOGS NEED TO BE EMBEDDED DEEPER.
- PLACE SEDIMENT CONTROL LOG AGAINST SIDEWALK OR BACK OF CURB WHEN ADJACENT TO THESE FEATURES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCEL OR COCONUT FIBER, AND SHALL BE FREE FROM ANY NOXIOUS WEED SEEDS OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR. IF USING AS SLOPE PROTECTION, INSTALL SEDIMENT CONTROL LOGS ALONG THE CONTOUR.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT CONTROL LOGS HAVE BEEN REMOVED.

**SCL**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-SCL

**SILT FENCE**

**J-HOOK INSTALLATION**

**SECTION A-A'**

**INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED ON A FLAT SURFACE 2'-5" AWAY FROM TOE OF THE SLOPE TO ALLOW FOR PONDING AND DEPOSITION.
- COMPACT THE TRENCH USING A JUMPING JACK OR WHEEL ROLLING TO THE POINT THAT THE FENCE RESISTS BEING PULLED OUT OF THE GROUND BY HAND.
- SILT FENCE SHALL BE TAUT WITH NO SAGS AFTER IT HAS BEEN ANCHORED.
- FABRIC SHALL BE ATTACHED TO POSTS WITH 1" HEAVY DUTY STAPLES OR 1" NAILS. THESE SHOULD BE PLACED VERTICALLY DOWN THE POST, 3" APART.
- THE PREFERRED INSTALLATION METHOD USES A TRENCHER OR SILT FENCE INSTALLATION DEVICE.
- INSTALL SILT FENCE ALONG THE CONTOUR OF THE SLOPES OR IN A MANNER TO AVOID CREATING CONCENTRATED FLOW (SUCH AS A "J-HOOK" INSTALLATION).

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN HEIGHT OF THE SILT FENCE.
- SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER SILT FENCE IS REMOVED.

**SF**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-SF

**SEEDING & MULCHING**

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

**SOIL PREPARATION**

- IN AREAS TO BE SEEDDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
- AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
- THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
- TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

**SEEDING**

- ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
- SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
- SEED DEPTH MUST BE 1/2 TO 3/4 INCHES WHEN DRILL-SEEDING IS USED.
- BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
- SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLIANT DRILL OR HYDRO-SEEDING.
- BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL.

**MULCHING**

- MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
- MULCHING REQUIREMENTS INCLUDE:
  - HAY OR STRAW MULCH
  - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
  - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
  - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
- HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
- IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION. WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 1,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
- EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

**SM**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-SM

**TEMPORARY COMPACTED BERM**

**TEMPORARY SEDIMENT BASIN**

**INSTALLATION NOTES**

- COMPACTED BERM MUST BE A MINIMUM HEIGHT OF ONE FOOT. BASE WIDTH IS DETERMINED BY HEIGHT.
- COMPACTED BERMS MUST BE ADEQUATELY COMPACTED. NOT ALL SOILS ARE SUITABLE FOR COMPACTED BERMS.
- INSTALL COMPACTED BERMS ALONG CONTOUR; DO NOT INSTALL PERPENDICULAR TO SLOPE.
- THE MAXIMUM TRIBUTARY DRAINAGE AREA PER 100 LINEAR FEET OF COMPACTED BERMS SHALL BE 1/2 ACRE.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE BERM.

**TCB**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-TCB

**SEDIMENT BASIN PLAN**

**SECTION A-A'**

**SECTION B-B'**

**INSTALLATION NOTES**

- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- 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 D-698.
- PIPE SCHEDULE 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. DESIGN CALCULATIONS MUST BE APPROVED PRIOR TO IMPLEMENTATION.

**NOTE:**  
BYRD CT AND O'STEEN CT REQUIRE A TSB SIZED FOR 1 ACRE EACH

**TSB**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-TSB-1

**TABLE SB-1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN**

UPSTREAM DRAINAGE AREA (ROUNDED TO NEAREST ACRE), (AC)	BASE BOTTOM WIDTH (W), (FT)	SPILLWAY CREST LENGTH (CL), (FT)	SOLE DIAMETER (HD), (IN)
1	12 1/2	2	3/2
2	21	3	1 1/2
3	28	5	1 1/2
4	33 1/2	6	1 1/2
5	38 1/2	8	1 1/2
6	43	9	1 1/2
7	47 1/2	11	1 1/2
8	51	12	1 1/2
9	55	13	1 1/2
10	58 1/2	15	1 1/2
11	61	16	1 1/2
12	64	18	1 1/2
13	67 1/2	19	1 1/2
14	70 1/2	21	1 1/2
15	73 1/2	22	1 1/2

**INSTALLATION NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN CONTROL MEASURE EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT BASIN REMOVAL.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN CONTROL MEASURE EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT BASIN REMOVAL.

**TSB**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-TSB-2

Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min length.

**AGGREGATE VEHICLE TRACKING CONTROL**

**VTC**

**INSTALLATION NOTES**

- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOULD BE LOCATED AT ALL POINTS WHERE VEHICLES EXIT THE CONSTRUCTION SITE TO ADJACENT ROADWAY.
- STABILIZED CONSTRUCTION ENTRANCE/EXITS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- RADIUS MUST BE ADEQUATE FOR INTENDED CONSTRUCTION VEHICLE TURNING.
- ROCK SHOULD CONSIST OF 6" MINUS ROCK. INSTALL CONSTRUCTION FENCE ON BOTH SIDES OF VEHICLE TRACKING CONTROL PAD WHEN NEEDED OR REQUIRED BY INSPECTOR.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- SEDIMENT TRACKED ONTO THE ADJACENT ROAD SHALL BE REMOVED DAILY, BY SWEEPING OR SHOVELING, AND NEVER WASHED DOWN STORM DRAINS.
- ROUGHEN, REPLACE AND/OR ADD ROCK AS NEEDED TO MAINTAIN CONSISTENT DEPTH AND TO PREVENT SEDIMENT TRACKING ONTO ADJACENT STREET.
- PERMANENTLY STABILIZE AREA AFTER VEHICLE TRACKING CONTROL IS REMOVED.

**VTC**

STORMWATER ENTERPRISE

APPROVED: [Signature]

DESIGNED: 10/7/19

REVISION: 8/19/2020

DRAWING NO. 900-VTC

TITLE: GRADING & EROSION CONTROL PLAN

DRAWING NO. GEC-ED

MVE PROJ. NO. 61108

DRAWN: JO

ENGINEER: DRG

CHECKED: 12/29/22

UPDATED BY: MONUMENT VALLEY ENGINEERS INC.

ENGINEERS • SURVEYORS  
1903 LELARAY STREET, SUITE 200  
COLORADO SPRINGS, CO 80909  
Phone (719) 635-5736  
Fax (719) 635-5450  
E-mail mve@mevill.com

PREMIER ENGINEERING, INC.  
Professional Civil Engineers  
2110 Vickers Drive  
Colorado Springs, CO 80918  
(719) 598 6951  
PremierEng@aol.com

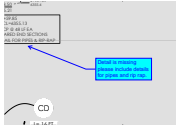
PREPARATION DATE: 12/29/22

# V2\_GEC Plan Redlines.pdf Markup Summary

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## Carlos (1)

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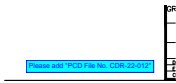
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Detail is missing please include details for pipes and rip rap.

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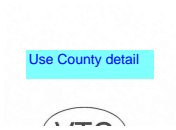
## CDurham (2)

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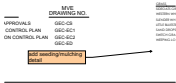
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Use County detail

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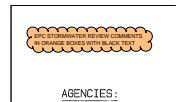
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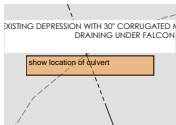


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add seeding/mulching detail

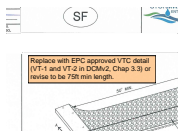


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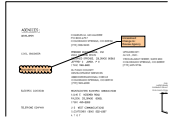
show location of culvert



**Subject:** Text Box  
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Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min length.

**Mikayla Hartford (22)**

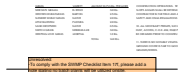


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Review Agency

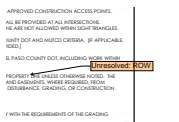


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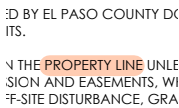
**Subject:** Engineer  
**Page Label:** [1] GEC-CS  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:24:12 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved:  
-To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

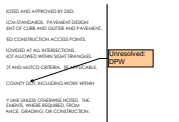


**Subject:** Engineer  
**Page Label:** [1] GEC-CS  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:36:33 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: ROW

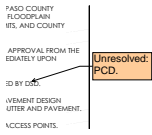


**Subject:** Engineer  
**Page Label:** [1] GEC-CS  
**Author:** Mikayla Hartford  
**Date:** 3/14/2023 3:31:29 PM  
**Length:** 0  
**Area:** 0  
**Volume:** 0



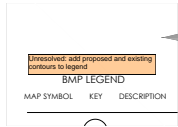
**Subject:** Engineer  
**Page Label:** [1] GEC-CS  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:36:17 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: DPW



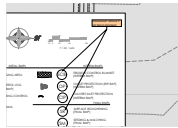
**Subject:** Engineer  
**Page Label:** [1] GEC-CS  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:36:06 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: PCD.



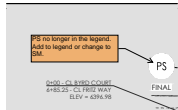
**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:38:01 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: add proposed and existing contours to legend



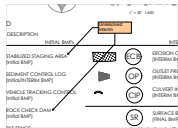
**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:37:39 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: remove if not being proposed



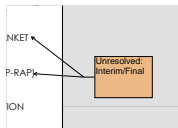
**Subject:** SW - Textbox  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/14/2023 3:47:28 PM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

PS no longer in the legend. Add to legend or change to SM.



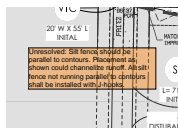
**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:37:51 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Interim



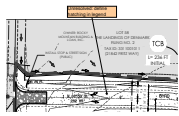
**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:37:43 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Interim/Final



**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:37:12 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Silt fence should be parallel to contours. Placement as shown could channelize runoff. All silt fence not running parallel to contours shall be installed with J-hooks.



**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:37:26 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: define hatching in legend



**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/14/2023 4:04:31 PM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Comments on legend applicable to both sheets.



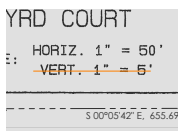
**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:38:28 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Show symbol on legend. clarify between contours and drainage easement

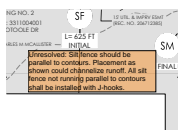


**Subject:** Engineer  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/16/2023 10:13:10 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Show 100-Year WSEL and the symbol on Legend.

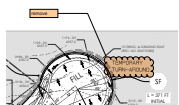


**Subject:** Line  
**Page Label:** [2] GEC-EC1  
**Author:** Mikayla Hartford  
**Date:** 3/14/2023 4:28:58 PM  
**Length:** 0  
**Area:** 0  
**Volume:** 0



**Subject:** Engineer  
**Page Label:** [3] GEC-EC2  
**Author:** Mikayla Hartford  
**Date:** 3/15/2023 9:38:58 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

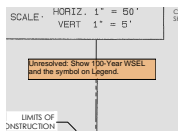
Unresolved: Silt fence should be parallel to contours. Placement as shown could channelize runoff. All silt fence not running parallel to contours shall be installed with J-hooks.



**Subject:** Engineer  
**Page Label:** [3] GEC-EC2  
**Author:** Mikayla Hartford  
**Date:** 3/14/2023 4:07:22 PM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

remove

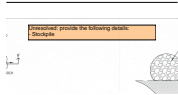




---

**Subject:** Engineer  
**Page Label:** [3] GEC-EC2  
**Author:** Mikayla Hartford  
**Date:** 3/16/2023 10:13:24 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: Show 100-Year WSEL and the symbol on Legend.



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**Subject:** Engineer  
**Page Label:** [4] GEC-ED  
**Author:** Mikayla Hartford  
**Date:** 3/16/2023 10:10:55 AM  
**Length:** 0  
**Area:** 0  
**Volume:** 0

Unresolved: provide the following details:  
- Stockpile