

WOODMEN HILLS METROPOLITAN DISTRICT REGIONAL  
WATER RECLAMATION FACILITY  
GRADING AND EROSION CONTROL PLAN

THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION 06, TOWNSHIP 13 SOUTH, RANGE 64  
WEST OF THE 6TH P.M., COUNTY OF EL PASO, STATE OF COLORADO

CONTACTS:

OWNER:  
WOODMEN HILLS METRO DISTRICT  
8046 EASTONVILLE RD,  
PEYTON, CO 80831  
CONTACT: WALLY EAVES  
TEL: (719) 210-0659

SURVEYOR:  
TOPOGRAPHIC, CO.  
520 STACY COURT, UNIT B  
LAFAYETTE, CO 80026  
CONTACT: KYLE WALKER, PLS  
TEL: (303) 253-0549

GEOTECH:  
KUMAR & ASSOCIATES  
6735 KUMAR HEIGHTS  
COLORADO SPRINGS, CO 80918  
CONTACT: ARBEN KALAVESHI, P.E.  
TEL: (719) 632-7009

ENGINEER:  
KIMLEY-HORN AND ASSOCIATES, INC.  
2 NEVADA NORTH AVE., SUITE 300  
COLORADO SPRINGS, CO 80903  
CONTACT: KEVIN KOFFORD, PE  
TEL: 719-453-0180

EL PASO COUNTY:  
EL PASO COUNTY  
PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, CO 80910  
PHONE: (719) 520-6300

BENCHMARK

SITE BENCHMARK IS A NUMBER 5 REBAR WITH 2" ALUMINUM CAP STAMPED "TOPOGRAPHIC CP" AT THE WEST SIDE OF THE ENTRY GATE TO THE WHMD FACILITY, WITH A NAVD 88 ELEVATION OF 7058.81'.

BASIS OF BEARING

BEARINGS CONTAINED HEREIN ARE BASED UPON THE GRID BEARING OF N51°24'46"W BETWEEN CONTROL POINT DM1 AND DM2, BOTH BEING SET NUMBER 5 REBARS WITH 2 -INCH ALUMINUM CAPS STAMPED "TOPOGRAPHIC CP".

LEGAL DESCRIPTION

TRACT K MERIDIAN RANCH FIL NO 1

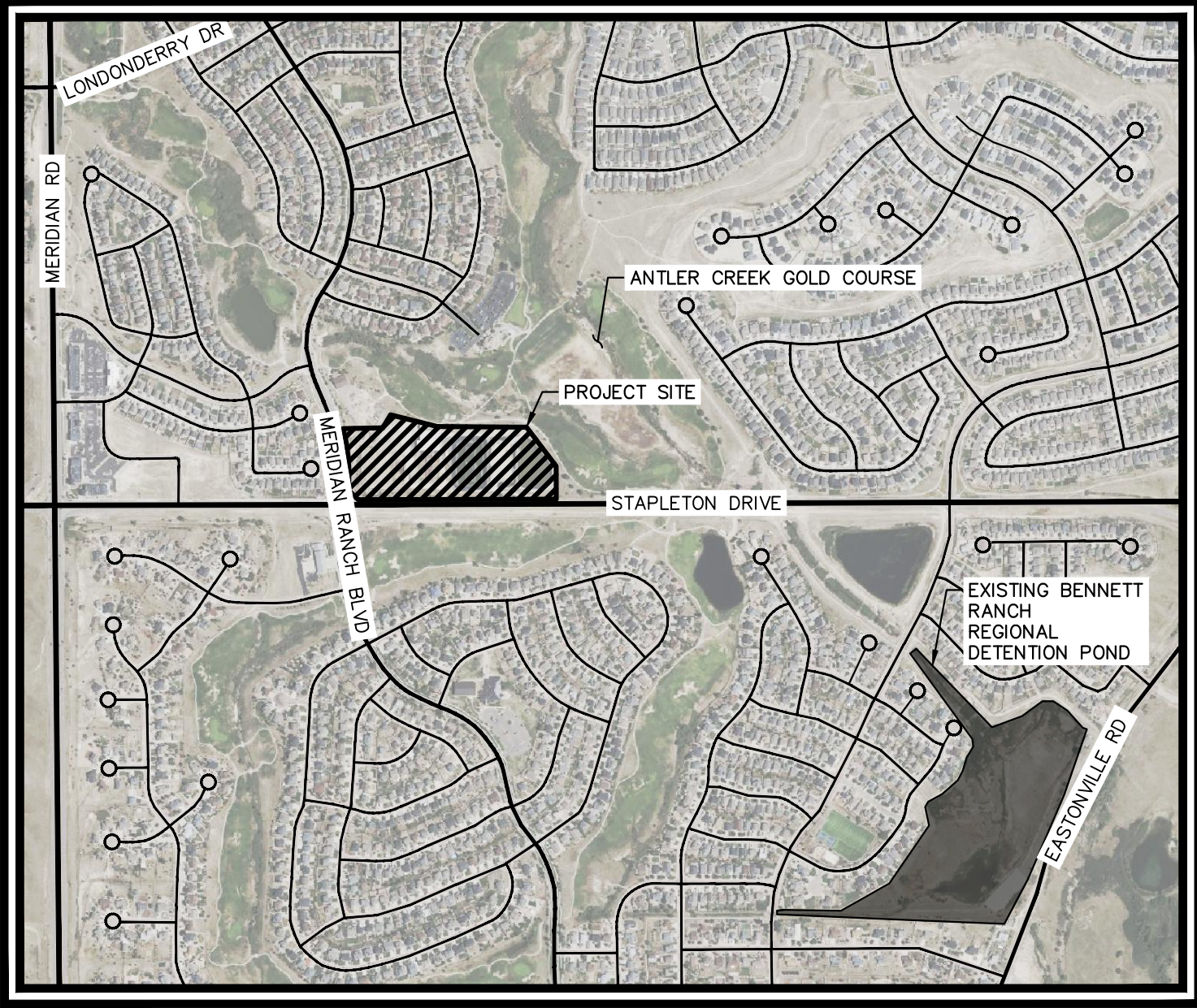
DATUM STATEMENT

ALL DIRECTIONS, DISTANCES AND DIMENSIONS ARE BASED ON MODIFIED COORDINATES FROM THE COLORADO COORDINATE SYSTEM OF 1983 CENTRAL ZONE (C.R.S. 38-52-102).

C.S.F:1.0003963142

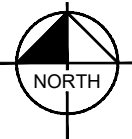
ORIGIN: 0,0

ELEVATION TAKEN AS 7058.81 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988)



VICINITY MAP

SCALE: 1"=5000'



| SHEET LIST TABLE |                       |
|------------------|-----------------------|
| SHEET NUMBER     | SHEET TITLE           |
| C2.1             | COVER SHEET           |
| C2.2             | GENERAL NOTES         |
| C2.3             | GEC INITIAL PLAN      |
| C2.4             | GEC INTERIM PLAN      |
| C2.5             | GEC FINAL PLAN        |
| C2.6             | DETAIL SHEET (1 OF 3) |
| C2.7             | DETAIL SHEET (2 OF 3) |
| C2.8             | DETAIL SHEET (3 OF 3) |

GEC PLAN SIGNATURES:

DEVELOPER'S/OWNER'S SIGNATURE BLOCK

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

*Walter Eaves* 8/6/2026

WOODMEN HILLS METROPOLITAN DISTRICT DATE

ENGINEER'S SIGNATURE BLOCK

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.



KEVIN KOFFORD, P.E. 57234 - KIMLEY-HORN AND ASSOCIATES, INC. DATE

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.

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

Kimley»Horn

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2 N NEVADA AVE SUITE 300 COLORADO SPRINGS, CO 80903  
WWW.KIMLEY-HORN.COM REGISTRY NO. 35108



KHA PROJECT  
196013004  
DATE  
2026-08-07  
SCALE AS SHOWN  
DESIGNED BY MEO  
DRAWN BY MEO  
CHECKED BY KRK

RWRF STORMWATER  
IMPROVEMENTS  
PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
COLORADO  
EL PASO COUNTY

COVER SHEET

SHEET NUMBER  
C2.1





EL PASO COUNTY GRADING AND EROSION  
CONTROL PLAN NOTES

- 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 (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
2. A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).
3. CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCMS(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCMS(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).
4. ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.
5. PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
6. MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.
7. 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 50 HORIZONTAL FEET OF A RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.
8. TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
9. EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.
10. VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCs MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
11. ANY TEMPORARY OR PERMANENT CONTROL MEASURE 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.

10. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER, PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
13. ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
14. SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA).
15. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE, AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.
16. 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.
17. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS 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.
18. DURING CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT'S (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND, IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE 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.
20. THE PERMIT HOLDER(S) 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.
21. 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.
22. 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. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
23. BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT 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.
24. 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.
25. ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
27. FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.
28. PERMIT HOLDER(S) 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, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. 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.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC 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 80246-1530  
ATTN:PERMITS UNIT

[illegible]

**Kimley»»Horn**  
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PHONE: 719-453-0180  
WWW.KIMLEY-HORN.COM REGISTRY No. 35106



|                          |                    |                |                 |              |                |
|--------------------------|--------------------|----------------|-----------------|--------------|----------------|
| KHA PROJECT<br>196013004 | DATE<br>2026-08-07 | SCALE AS SHOWN | DESIGNED BY MEO | DRAWN BY MEO | CHECKED BY KRK |
|--------------------------|--------------------|----------------|-----------------|--------------|----------------|

RWRF STORMWATER  
IMPROVEMENTS  
PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
EL PASO COUNTY, COLO.

## GENERAL NOTES

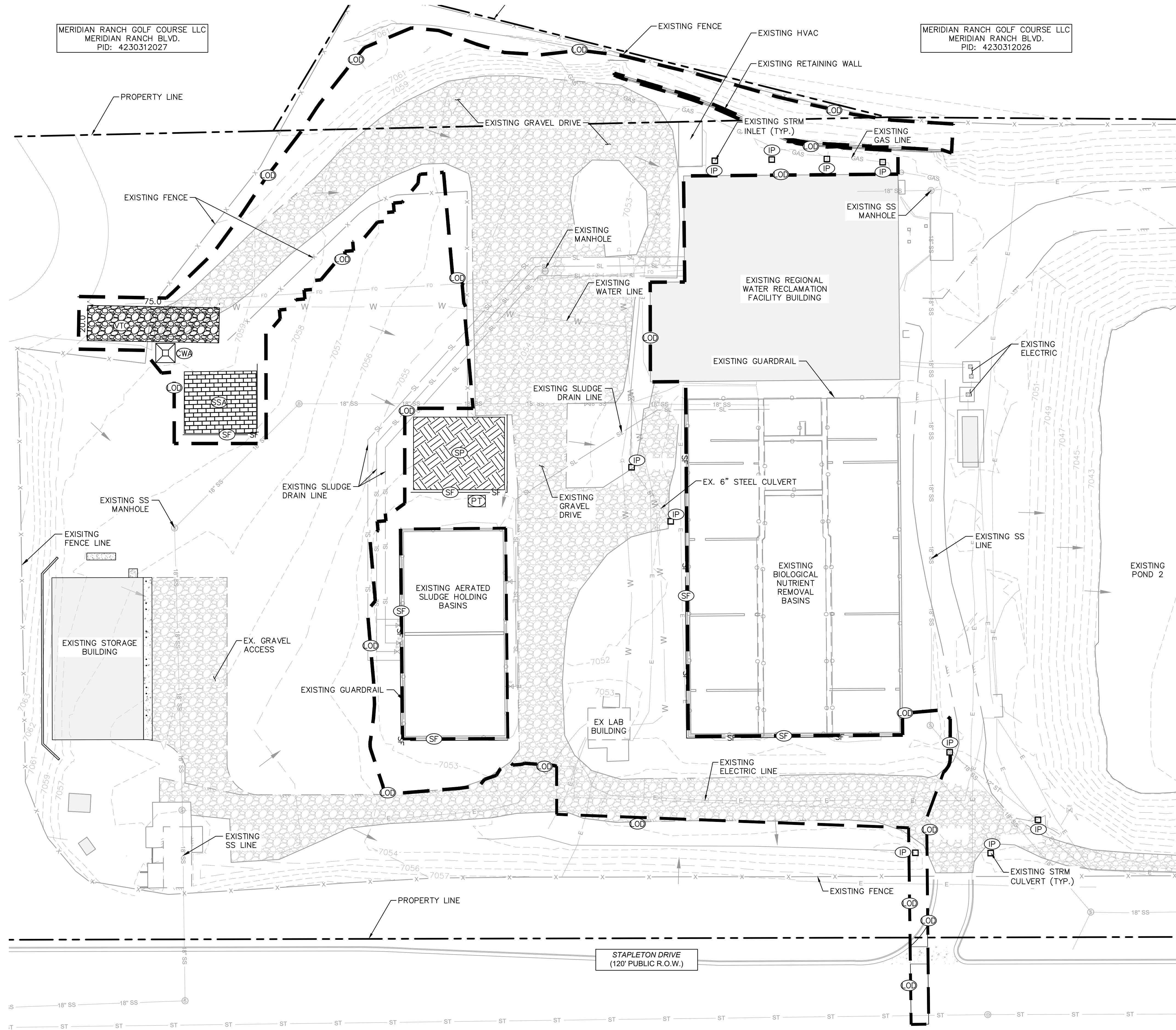
SHEET NUMBER  
**C2.2**



Know what's below.  
Call before you dig.



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### LEGEND

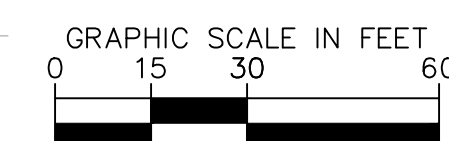
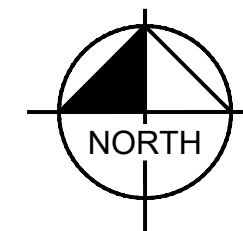
|  |                                    |
|--|------------------------------------|
|  | PROPERTY LINE                      |
|  | ADJACENT PROPERTY LINE             |
|  | LIMITS OF CONSTRUCTION/DISTURBANCE |
|  | SILT FENCE                         |
|  | EXISTING GRAVEL                    |
|  | SSA                                |
|  | CWA                                |
|  | VTC                                |
|  | SP                                 |
|  | IP                                 |
|  | PT                                 |
|  | EXISTING FLOW DIRECTION ARROW      |

### LIMITS OF CONSTRUCTION

|                     |               |
|---------------------|---------------|
| ONSITE DISTURBANCE  | = 2.023 ACRES |
| OFFSITE DISTURBANCE | = 0.011 ACRES |
| TOTAL               | = 2.034 ACRES |

### NOTES

1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES. CONTRACTOR SHALL PERFORM STREET SWEEPING AT ALL TIMES DURING ACTIVE TRACKING AND AT A MINIMUM ON A DAILY BASIS AT THE END OF EACH CONSTRUCTION DAY.
3. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
4. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
6. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITHIN OWNER REQUIREMENTS.
7. ALL WORK IN THE STAPLETON DRIVE ROW REQUIRES A ROW PERMIT FROM EL PASO COUNTY. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
8. CONTRACTOR SHALL REFER TO THE APPROVED GEOTECHNICAL REPORT FOR OVEREXCAVATION REQUIREMENTS AND ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPs AS EXCAVATION SEQUENCING DICTATES.
10. CONTRACTOR MAY SUBSTITUTE SEDIMENT CONTROL LOGS (SCL) FOR SILT FENCE (SF) AS PERIMETER CONTROL, DEPENDING UPON SITE CONDITIONS. SCL, AND SF MAY BE INTERCHANGED DEPENDING ON SITE CONDITIONS.



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|             |            |
|-------------|------------|
| KHA PROJECT | 196013004  |
| DATE        | 2026-08-07 |
| SCALE       | AS SHOWN   |
| DESIGNED BY | MEG        |
| DRAWN BY    | MEG        |
| CHECKED BY  | KRK        |

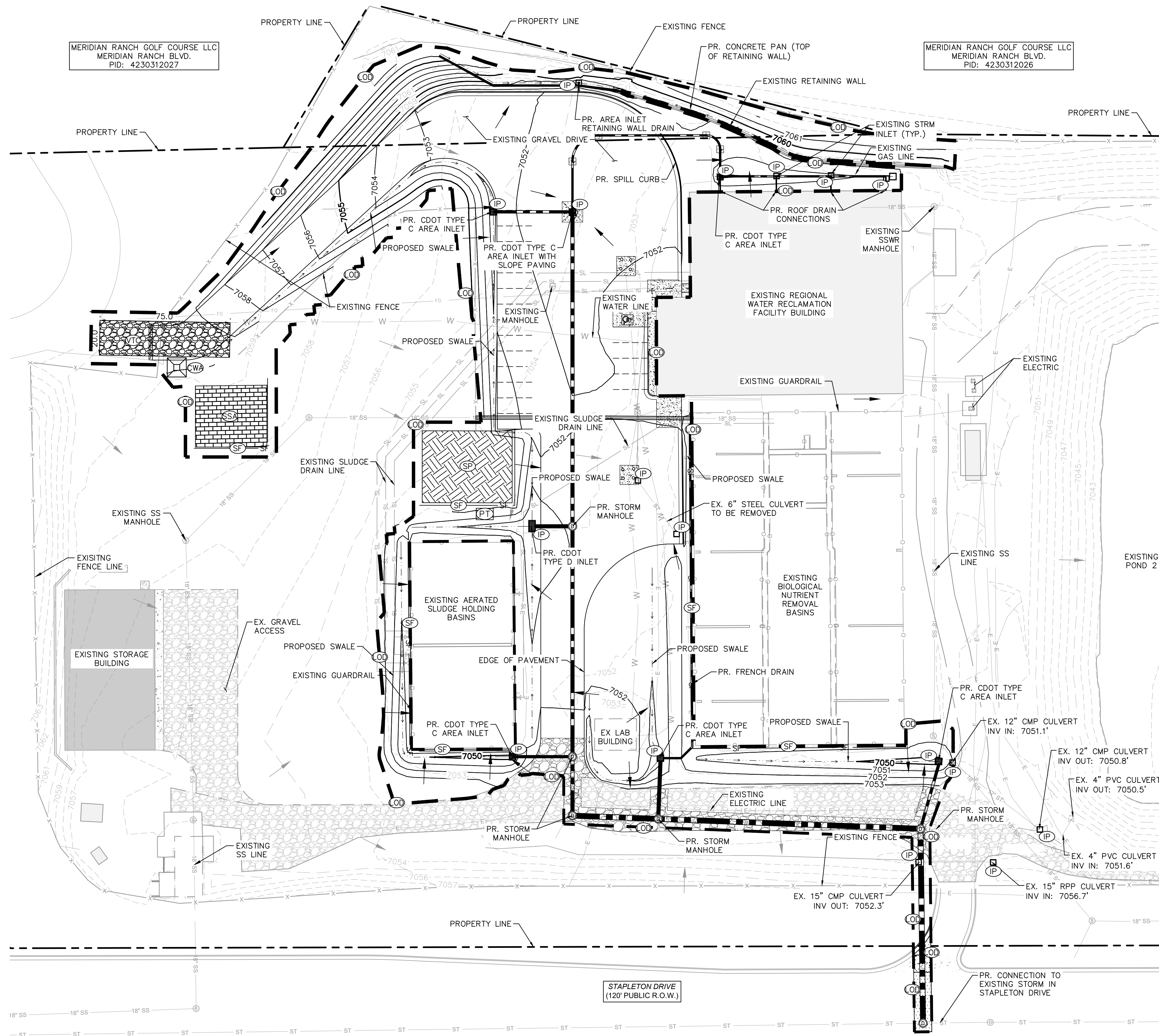
RWRF STORMWATER  
IMPROVEMENTS  
PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
EL PASO COUNTY  
COLORADO

GEC INITIAL PLAN

SHEET NUMBER  
**C2.3**



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#### LEGEND

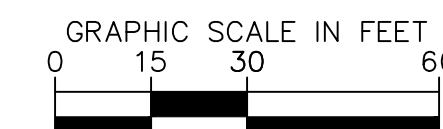
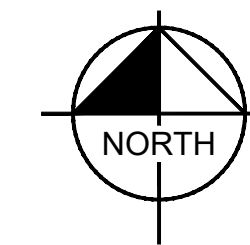
|  |                                    |
|--|------------------------------------|
|  | PROPERTY LINE                      |
|  | ADJACENT PROPERTY LINE             |
|  | LIMITS OF CONSTRUCTION/DISTURBANCE |
|  | SILT FENCE                         |
|  | EXISTING GRAVEL                    |
|  | SSA STABILIZED STAGING AREA        |
|  | CWA CONCRETE WASHOUT               |
|  | VTC VEHICLE TRACKING CONTROL       |
|  | SP SOIL STOCKPILE                  |
|  | INLET PROTECTION                   |
|  | PORTABLE TOILET                    |
|  | EXISTING FLOW DIRECTION ARROW      |
|  | PROPOSED FLOW DIRECTION ARROW      |

#### LIMITS OF CONSTRUCTION

|                     |               |
|---------------------|---------------|
| ONSITE DISTURBANCE  | = 2.023 ACRES |
| OFFSITE DISTURBANCE | = 0.011 ACRES |
| TOTAL               | = 2.034 ACRES |

#### NOTES

1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES. CONTRACTOR SHALL PERFORM STREET SWEEPING AT ALL TIMES DURING ACTIVE TRACKING AND AT A MINIMUM ON A DAILY BASIS AT THE END OF EACH CONSTRUCTION DAY.
3. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
4. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
6. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITHIN OWNER REQUIREMENTS.
7. ALL WORK IN THE STAPLETON DRIVE ROW REQUIRES A ROW PERMIT FROM EL PASO COUNTY. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
8. CONTRACTOR SHALL REFER TO THE APPROVED GEOTECHNICAL REPORT FOR OVEREXCAVATION REQUIREMENTS AND ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPs AS EXCAVATION SEQUENCING DICTATES.
10. CONTRACTOR MAY SUBSTITUTE SEDIMENT CONTROL LOGS (SCL) FOR SILT FENCE (SF) AS PERIMETER CONTROL, DEPENDING UPON SITE CONDITIONS. SCL, AND SF MAY BE INTERCHANGED DEPENDING ON SITE CONDITIONS.



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|-------------|------------|
| KHA PROJECT | 196013004  |
| DATE        | 2026-08-07 |
| SCALE       | AS SHOWN   |
| DESIGNED BY | MEG        |
| DRAWN BY    | MEG        |
| CHECKED BY  | KRK        |

RWRF STORMWATER  
IMPROVEMENTS  
PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
EL PASO COUNTY

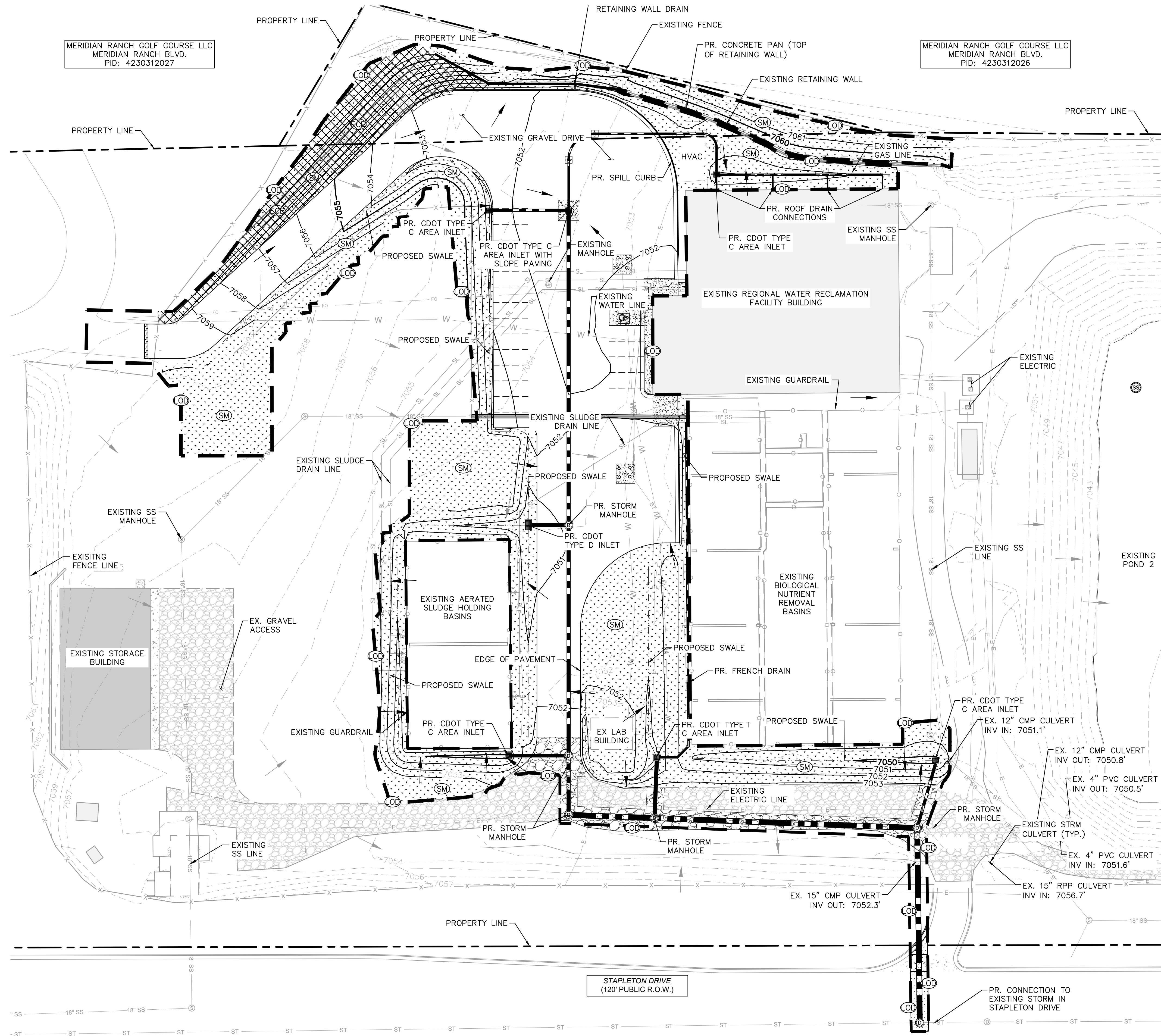
GEC INTERIM PLAN

SHEET NUMBER  
**C2.4**

PCD FILE NO.: CDR268



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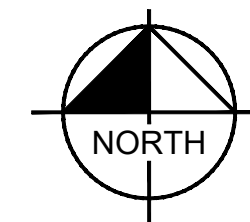
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- LIMITS OF CONSTRUCTION/DISTURBANCE
- EXISTING GRAVEL
- SEEDING AND MULCHING
- EROSION CONTROL BLANKET
- EXISTING FLOW DIRECTION ARROW
- PROPOSED FLOW DIRECTION ARROW

### LIMITS OF CONSTRUCTION

|                     |               |
|---------------------|---------------|
| ONSITE DISTURBANCE  | = 2.023 ACRES |
| OFFSITE DISTURBANCE | = 0.011 ACRES |
| TOTAL               | = 2.034 ACRES |

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|-------------|------------|
| KHA PROJECT | 196013004  |
| DATE        | 2026-08-07 |
| SCALE       | AS SHOWN   |
| DESIGNED BY | MEG        |
| DRAWN BY    | MEG        |
| CHECKED BY  | KRK        |

RWRf STORMWATER  
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PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
EL PASO COUNTY

GEC FINAL PLAN

SHEET NUMBER  
**C2.5**

PCD FILE NO.: CDR268

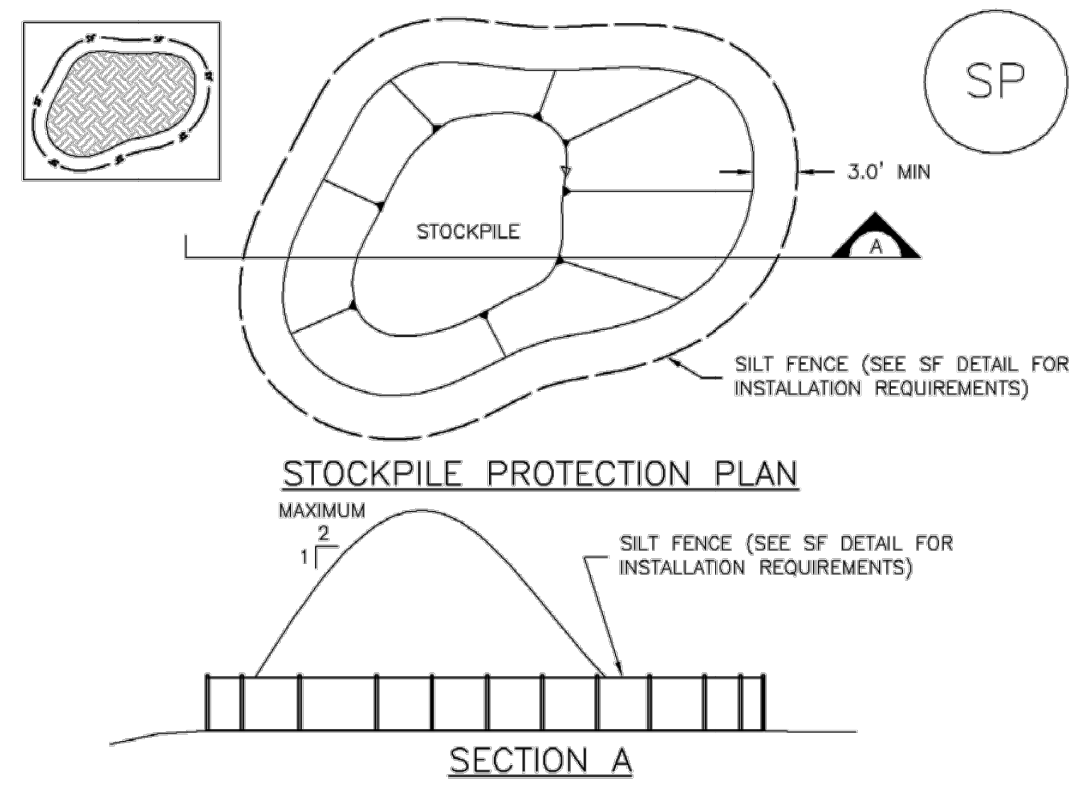






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Stockpile Management (SP) MM-2



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 SEGMENT CONTROL, LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- 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

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

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

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

| Species*<br>(Common name) | Growth<br>Season <sup>a</sup> | Pounds of<br>Pure Live Seed<br>(PLS)/acre <sup>c</sup> | Planting<br>Depth<br>(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                                                | ½                             |
| 5. Millet                 | Warm                          | 3 - 15                                                 | ½ - ¾                         |
| 6. Sudangrass             | Warm                          | 5-10                                                   | ½ - ¾                         |
| 7. Sorghum                | Warm                          | 5-10                                                   | ½ - ¾                         |
| 8. Winter wheat           | Cool                          | 20-35                                                  | 1 - 2                         |
| 9. Winter barley          | Cool                          | 20-35                                                  | 1 - 2                         |
| 10. Winter rye            | Cool                          | 20-35                                                  | 1 - 2                         |
| 11. Triticale             | Cool                          | 25-40                                                  | 1 - 2                         |

<sup>a</sup> 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 moved 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-3 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.

June 2012 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

MM-2 Stockpile Management (SM)

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

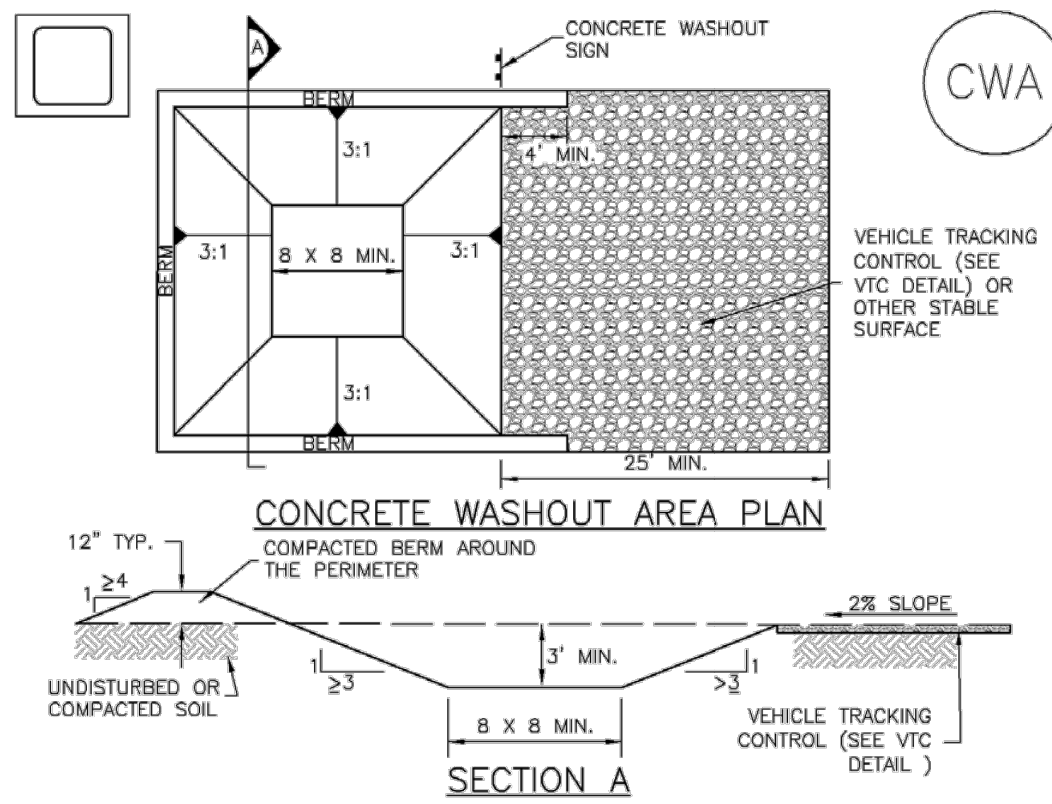
EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

| Common <sup>a</sup><br>Name                 | Botanical<br>Name                    | Growth<br>Season <sup>b</sup> | Growth<br>Form | Seeds/<br>Pound | Pounds of<br>PLS/acre |
|---------------------------------------------|--------------------------------------|-------------------------------|----------------|-----------------|-----------------------|
| <b>Alkalali Soil Seed Mix</b>               |                                      |                               |                |                 |                       |
| Alkali sacaton                              | <i>Sporobolus airoides</i>           | Cool                          | Bunch          | 1,750,000       | 0.25                  |
| Basin wildrye                               | <i>Elymus cinereus</i>               | Cool                          | Bunch          | 165,000         | 2.5                   |
| Sodar streambank wheatgrass                 | <i>Agropyron riparium 'Sodar'</i>    | Cool                          | Sod            | 170,000         | 2.5                   |
| Jose tall wheatgrass                        | <i>Agropyron elongatum 'Jose'</i>    | Cool                          | Bunch          | 79,000          | 7.0                   |
| Arriba western wheatgrass                   | <i>Agropyron smithii 'Arriba'</i>    | Cool                          | Sod            | 110,000         | 5.5                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>17.75</b>          |
| <b>Fertile Loamy Soil Seed Mix</b>          |                                      |                               |                |                 |                       |
| Ephrium crested wheatgrass                  | <i>Agropyron cristatum 'Ephrium'</i> | Cool                          | Sod            | 175,000         | 2.0                   |
| Dural hard fescue                           | <i>Festuca ovina 'duriuscula'</i>    | Cool                          | Bunch          | 565,000         | 1.0                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| Sodar streambank wheatgrass                 | <i>Agropyron riparium 'Sodar'</i>    | Cool                          | Sod            | 170,000         | 2.5                   |
| Arriba western wheatgrass                   | <i>Agropyron smithii 'Arriba'</i>    | Cool                          | Sod            | 110,000         | 7.0                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>15.5</b>           |
| <b>High Water Table Soil Seed Mix</b>       |                                      |                               |                |                 |                       |
| Meadow foxtail                              | <i>Alopecurus pratensis</i>          | Cool                          | Sod            | 900,000         | 0.5                   |
| Redtop                                      | <i>Agrostis alba</i>                 | Warm                          | Open sod       | 5,000,000       | 0.25                  |
| Reed canarygrass                            | <i>Phalaris arundinacea</i>          | Cool                          | Sod            | 68,000          | 0.5                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| Pathfinder switchgrass                      | <i>Panicum virgatum 'Pathfinder'</i> | Warm                          | Sod            | 389,000         | 1.0                   |
| Alkar tall wheatgrass                       | <i>Agropyron elongatum 'Alkar'</i>   | Cool                          | Bunch          | 79,000          | 5.5                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>10.75</b>          |
| <b>Transition Turf Seed Mix<sup>c</sup></b> |                                      |                               |                |                 |                       |
| Ruebens Canadian bluegrass                  | <i>Poa compressa 'Ruebens'</i>       | Cool                          | Sod            | 2,500,000       | 0.5                   |
| Dural hard fescue                           | <i>Festuca ovina 'duriuscula'</i>    | Cool                          | Bunch          | 565,000         | 1.0                   |
| Citation perennial ryegrass                 | <i>Lolium perenne 'Citation'</i>     | Cool                          | Sod            | 247,000         | 3.0                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>7.5</b>            |

TS/PS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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

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

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

| Common<br>Name                             | Botanical<br>Name                       | Growth<br>Season <sup>a</sup> | Growth<br>Form            | Seeds/<br>Pound | Pounds of<br>PLS/acre |
|--------------------------------------------|-----------------------------------------|-------------------------------|---------------------------|-----------------|-----------------------|
| <b>Sandy Soil Seed Mix</b>                 |                                         |                               |                           |                 |                       |
| Blue grama                                 | <i>Bouteloua gracilis</i>               | Warm                          | Sod-forming<br>bunchgrass | 825,000         | 0.5                   |
| Camper little bluestem                     | <i>Schizachyrium scoparium 'Camper'</i> | Warm                          | Bunch                     | 240,000         | 1.0                   |
| Prairie sandreed                           | <i>Calamovilfa longifolia</i>           | Warm                          | Open sod                  | 274,000         | 1.0                   |
| Sand dropseed                              | <i>Sporobolus cryptandrus</i>           | Cool                          | Bunch                     | 5,298,000       | 0.25                  |
| Vaughn sideoats grama                      | <i>Bouteloua curtipendula 'Vaughn'</i>  | Warm                          | Sod                       | 191,000         | 2.0                   |
| Arriba western wheatgrass                  | <i>Agropyron smithii 'Arriba'</i>       | Cool                          | Sod                       | 110,000         | 5.5                   |
| <b>Total</b>                               |                                         |                               |                           |                 | <b>10.25</b>          |
| <b>Heavy Clay, Rocky Foothill Seed Mix</b> |                                         |                               |                           |                 |                       |
| Ephrium crested wheatgrass <sup>b</sup>    | <i>Agropyron cristatum 'Ephrium'</i>    | Cool                          | Sod                       | 175,000         | 1.5                   |
| Oahe Intermediate wheatgrass               | <i>Agropyron intermedium 'Oahe'</i>     | Cool                          | Sod                       | 115,000         | 5.5                   |
| Vaughn sideoats grama <sup>c</sup>         | <i>Bouteloua curtipendula 'Vaughn'</i>  | Warm                          | Sod                       | 191,000         | 2.0                   |
| Lincoln smooth brone                       | <i>Bromus inermis leys 'Lincoln'</i>    | Cool                          | Sod                       | 130,000         | 3.0                   |
| Arriba western wheatgrass                  | <i>Agropyron smithii 'Arriba'</i>       | Cool                          | Sod                       | 110,000         | 5.5                   |
| <b>Total</b>                               |                                         |                               |                           |                 | <b>17.5</b>           |

<sup>a</sup> All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

<sup>b</sup> See Table TS/PS-3 for seeding dates.

<sup>c</sup> If site is to be irrigated, the transition turf seed rates should be doubled.

<sup>d</sup> Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

<sup>e</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.

June 2012 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 TS/PS-5

MM-1 Concrete Washout Area (CWA)

CWA 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.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF 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.

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

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

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

| Seeding Dates            | Annual Grasses<br>(Numbers in table reference<br>species in Table TS/PS-1) |           | Perennial Grasses |      |
|--------------------------|----------------------------------------------------------------------------|-----------|-------------------|------|
|                          | Warm                                                                       | Cool      | Warm              | Cool |
| January 1-March 15       |                                                                            |           | ✓                 | ✓    |
| March 16-April 30        | 4                                                                          | 1,2,3     | ✓                 | ✓    |
| May 1-May 15             | 4                                                                          |           | ✓                 |      |
| May 16-June 30           | 4,5,6,7                                                                    |           |                   |      |
| July 1-July 15           | 5,6,7                                                                      |           |                   |      |
| July 16-August 31        |                                                                            |           |                   |      |
| September 1-September 30 |                                                                            | 8,9,10,11 |                   |      |
| 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 Mulching BMP Fact Sheet 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.

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.

TS/PS-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012



Know what's below.  
Call before you dig.

DETAIL SHEET (2 OF 3)

SHEET NUMBER  
C2.7

Kimley»Horn

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221 NEVADA AVE SUITE 100 COLORADO SPRINGS, CO 80903

WWW.KIMLEY-HORN.COM REGISTRY NO. 35108



KHA PROJECT  
196013004  
DATE  
2026-08-07  
SCALE  
AS SHOWN  
DESIGNED BY  
MEG  
DRAWN BY  
MEG  
CHECKED BY  
KHK

RWRF STORMWATER  
IMPROVEMENTS  
PREPARED FOR  
WOODMEN HILLS  
METROPOLITAN DISTRICT  
EL PASO COUNTY  
COLORADO



### **Minimizing Long-Term Stabilization Requirements**

- Utilize off-site parking and restrict vehicle access to the site.
- Use construction mats in lieu of rock when staging is provided in an area that will not be disturbed otherwise.
- Consider use of a bermed contained area for materials and equipment that do not require a stabilized surface.
- Consider phasing of staging areas to avoid disturbance in an area that will not be otherwise disturbed.

See Detail SSA-1 for a typical stabilized staging area and SSA-2 for a stabilized staging area when materials staging in roadways is required.

## Maintenance and Removal

Maintenance of stabilized staging areas includes maintaining a stable surface cover of gravel, repairing perimeter controls, and following good housekeeping practices.

When construction is complete, debris, unused stockpiles and materials should be recycled or properly disposed. In some cases, this will require disposal of contaminated soil from equipment leaks in an appropriate landfill. Staging areas should then be permanently stabilized with vegetation or other surface cover planned for the development.

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STABILIZED STAGING AREA MAINTENANCE NOTES

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

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, THE AREA COVERED WITH TOPSOIL, SEED, AND MULCH 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 SMP 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)

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|-------|--------------------------------------------------------------------------------------------|---------------|
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The diagram illustrates a Stabilized Staging Area (SSA) layout. Key components include:

- EXISTING ROADWAY** at the bottom.
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAILS VTC-1 TO VTC-3)** on the left, showing a cross-section of the stabilized material.
- CONSTRUCTION SITE ACCESS** indicated by arrows pointing to the entrance area.
- ON-SITE CONSTRUCTION VEHICLE PARKING (IF NEEDED)** in the upper central area.
- MATERIAL STORAGE AREA** in the lower central area.
- CONSTRUCTION TRAILERS** on the right side.
- 3" MIN. THICKNESS GRANULAR MATERIAL** covering the main staging area.
- SILT FENCE OR CONSTRUCTION FENCING AS NEEDED** along the bottom and right boundaries.
- SSA** (Stabilized Staging Area) labeled in a circle on the right.
- Material Legend:**
  - SF/CF** (Stabilized Fill/Construction Fill): Represented by a stippled pattern.
  - Gravel**: Represented by a pattern of small circles.
  - Gravel**: Represented by a pattern of small dots.

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR  
-LOCATION OF STAGING AREA(S).  
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, #45MTO #3 COARSE AGGREGATE OR 8" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

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

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SSA-3

NOTE: WASH WATER  
MAY NOT CONTAIN  
CHEMICALS OR SOAPS  
WITHOUT OBTAINING  
A SEPARATE PERMIT

PUBLIC ROADWAY

WASH RACK

DITCH TO CARRY  
WASH WATER TO  
SEDIMENT TRAP  
OR BASIN

VTC / WW

6" MIN.

REINFORCED CONCRETE RACK  
(MAY SUBSTITUTE STEEL CATTLE  
GUARD FOR CONCRETE RACK)

DRAIN SPACE

SECTION A

VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH  
WASH RACK

|       |                                                                                            |               |
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### VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

|               |                                                                                            |       |
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The diagram illustrates the construction of a stabilized storage area or staging area for construction mats, showing various dimensions and components.

**Top Section:**

- Two circular logos:  $VTC/CM$  and  $VTC/TRM$ .
- A cross-section view of a truck on a road.
- Dimensions: 10% MAX. (slope), 12' MIN. (width), 50' MIN. (length).
- Labels: EXISTING PAVED ROADWAY, CONSTRUCTION MATS, WOVEN OR TRM.
- Text: DISTURBED AREA, CONSTRUCTION SITE, STABILIZED STORAGE AREA OR STAGING AREA.

**Bottom Section:**

- A cross-section view of a construction mat (TRM) with dimensions: 18" MIN. (width), 24" MIN. (height).
- Labels: SPIKES OR STAKES, TRM END OVERLAP WITH SPIKES OR STAKES, STRAP CONNECTORS, CONSTRUCTION MAT END OVERLAP INTERLOCK WITH STRAP CONNECTORS.
- Text: PROVIDE 20' PAGES OR PREPARE CONSTRUCTION VEHICLE TO MOVEMENT TO THE MAT.
- Text: CONSTRUCTION MATS, WOVEN OR TURF REINFORCEMENT MAT (TRM).
- Text: RESTRICT CONST. VEHICLE ACCESS TO SIDES OF MAT.
- Text: EXISTING PAVED ROADWAY.
- Text: 20' (height).
- Text: OR AS REQUIRED TO ACCOMMODATE ANTICIPATED TRAFFIC (WIDTH CAN BE LESS IF CONST. VEHICLES ARE PHYSICALLY CONFINED ON BOTH SIDES).

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

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**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

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

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STREET SEWER DRAINS.

**NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD 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)

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