

- CONSTRUCTION MAY NOT COMMENCE UNTIL A PRECONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS.
2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION 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.
3. 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
4. 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMPs MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
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. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS

19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
22. INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

A map showing the location of the site. The site is marked with a black square and labeled "SITE". It is located near the intersection of I-25 and Monument Hill Rd. Deer Creek Rd and Woodmoor Dr are also shown. Beacon Lite Rd is shown on the left side of the map.

SHEET 1
PROJECT NUMBER
1704.01

LEGAL DESCRIPTION:

LOT 3, GREATER EUROPE MISSION SUBDIVISION FILING NO. 1

PROJECT BENCHMARK:

SOUTHEASTERLY CORNER OF LOT 3, GREATER EUROPE MISSION SUBDIVISION FILING NO. 1
RECORDED UNDER RECEPTION NO. 200033900 IN THE RECORDS OF THE EL PASO COUNTY CLERK
AND RECORDER BEING A 1-1/2" ALUMINUM CAP STAMPED "LS 17502". ASSUMED ELEVATION = 7109.99'.

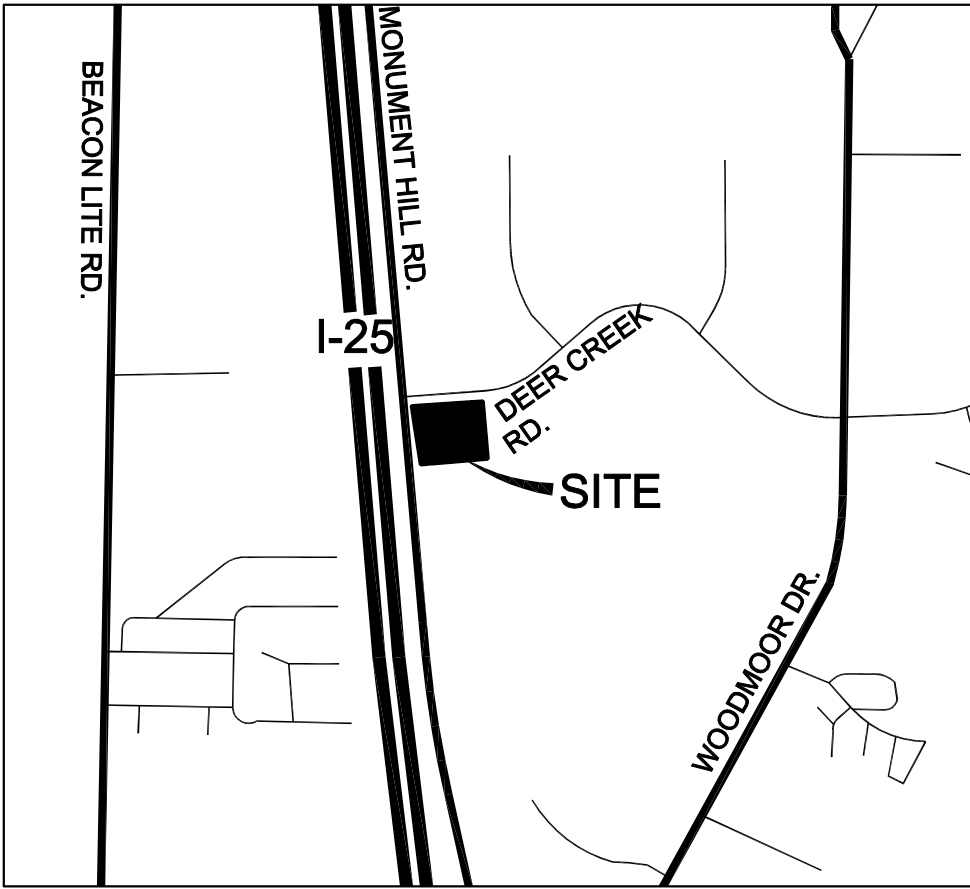
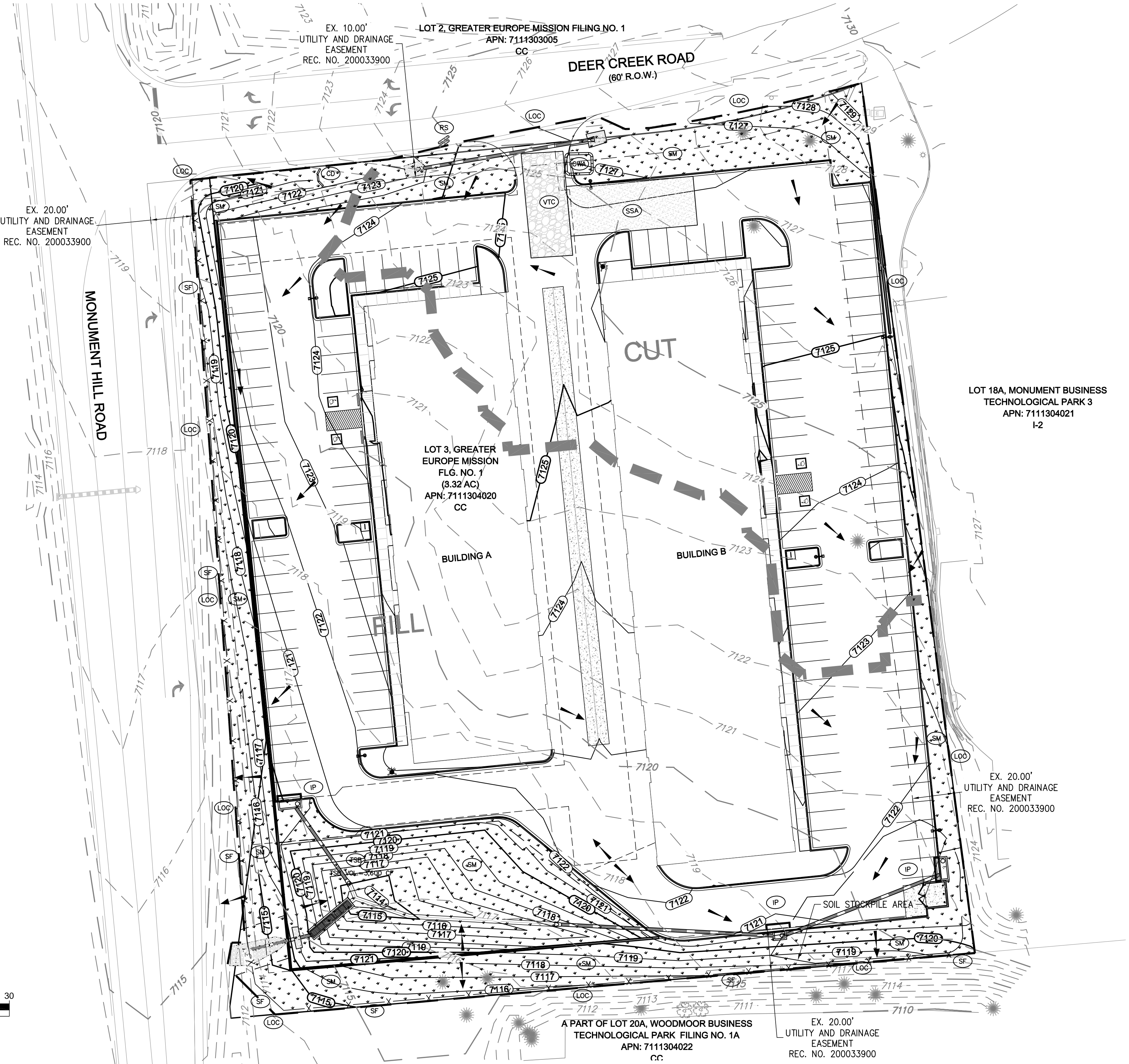
PROJECT BASIS OF BEARING:

BEARINGS ARE BASED ON THE EASTERLY LINE OF LOT 3, GREATER EUROPE MISSION SUBDIVISION FILING NO. 1
RECORDED UNDER RECEPTION NO. 200033900 IN THE RECORDS OF THE EL PASO COUNTY CLERK
AND RECORDER BEING MONUMENTED BY AN ALUMINUM CAP STAMPED "LS 38252" AT THE NORTH AND A 1-1/2" ALUMINUM CAP STAMPED "LS 17502" AT THE SOUTH, BEARING S07°25'35"E.

LEGEND
PROPOSED

---	EASEMENT	---	EXISTING
---	PROPERTY LINE	---	---
---	SITE PROPERTY LINE	---	---
---	R.O.W. LINE	---	---
---	SITE R.O.W. LINE	---	---
---	SIGHT TRIANGLE	---	---
---	SECTION LINE	---	---
---	SECTION CORNER	---	---
---	BENCHMARK	---	---
EC	ELECTRICAL CONDUIT	---	---
IC	IRRIGATION CONDUIT	---	---
GAS	GAS LINE	---	GAS
FO	FIBER OPTIC	---	UGT
CTV	UNDERGROUND CABLE	---	F0
F	FIRE LINE	---	CTV
W	WATER FITTING	---	---
W	FIRE HYDRANT	---	---
6"W	6" WATER MAIN	---	6"W
8"W	8" WATER MAIN	---	8"W
12"W	12" WATER MAIN	---	12"W
16"W	16" WATER MAIN	---	16"W
24"W	24" WATER MAIN	---	24"W
W	WATER METER	---	---
W	WATER SERVICE	---	---
IR	WATER VALVE	---	---
IR	IRRIGATION PIPE	---	---
UGE	TRANSFORMER	---	---
OHE	UNDERGROUND ELECTRIC	---	---
OHE	OVERHEAD ELECTRIC	---	---
---	LIGHTPOLE	---	---
---	POWER POLE	---	---
---	GUYWIRE	---	---
---	SANITARY CLEANOUT	---	---
---	SANITARY GREASE INTERCEPTOR	---	---
SS	SANITARY MAIN	---	SS
4"SS	4" SANITARY MAIN	---	---
6"SS	6" SANITARY MAIN	---	6"SS
8"SS	8" SANITARY MAIN	---	8"SS
10"SS	10" SANITARY MAIN	---	10"SS
12"SS	12" SANITARY MAIN	---	12"SS
15"SS	15" SANITARY MAIN	---	15"SS
SS	SANITARY MANHOLE	---	SS
SS	SANITARY SERVICE	---	SS
---	STORM INLET	---	---
---	STORM MANHOLE	---	---
---	STORM PIPE	---	---
---	BUILDING OUTLINE	---	---
---	BACK OF CURB	---	---
---	CONCRETE HATCH	---	---
---	EDGE OF PAVEMENT / PAV	---	---
---	FLOWLINE	---	---
---	SIDEWALK	---	---
---	SIDEWALK HATCH	---	---
---	PAVEMENT MARKING	---	---
---	TRAFFIC SIGN	---	---
---	BOLLARD	---	---
---	BARRIED WIRE FENCE	---	---
---	CHAIN LINK FENCE	---	---
---	SPLIT RAIL FENCE	---	---
---	WOOD FENCE	---	---
---	LIGHT POLE	---	---
---	RETAINING WALL	---	---
---	MONUMENT SIGN	---	---
---	CONIFEROUS TREE	---	---
---	DECIDUOUS TREE	---	---
---	MAJOR CONTOUR	---	---
---	MAJOR CONTOUR	---	---

EXISTING



VICINITY MAP
NTS

BMP LEGEND

CD	CHECK DAM, PER DETAIL SHEET
IP	INLET PROTECTION, PER DETAIL SHEET
SF	SILT FENCE, PER DETAIL SHEET
VTC	VEHICLE TRACKING CONTROL, PER DETAIL SHEET
LOC	LIMITS OF CONSTRUCTION
CWA	CONCRETE WASHOUT AREA, PER DETAIL SHEET
SSA	STABILIZED STAGING AREA, PER DETAIL SHEET
RS	ROCK SOCKS
SM	SEED AND MULCH
ECB	EROSION CONTROL BLANKET

SEEDMIX:

20% ANNUAL RYEGRASS	LOLIUM MULTIFLORUM
15% SLENDER WHEATGRASS	AGROPYRON TRACHYCAULUM
12% CRESTED WHEATGRASS	AGROPYRON CRISTATUM
10% MOUNTAIN BROME	BROMUS MARGINATUS
10% HARD FESCUE	FESTUCA OVINA SPP. DURIUSCULA
10% CANADA BLUEGRASS	POA COMPRESSA
6% SIDEOTS GRAMA	BOUTELOUA CURTIPENDULA
6% BIG BLUESTEM	ANDROPOGON GERARDII
5% BLUE GRAMA (COATED)	BOUTELOUA GRACILIS
5% SWITCHGRASS	PANICUM VIRGATUM
1% SAND DROPSEED	SPOROBOLUS CRYPTANDRUS

SEEDING RATE:	
BORADCAST: 20-25 LBS/AC	DRILLED: 15-20 LBS/AC OVERSEEDING

BMP SUMMARY TABLE

	SILT FENCE	STABILIZED STAGING AREA	CONCRETE WASHOUT AREA	VTC WITH WHEEL WASH	INLET PROTECTION	SEDIMENT BASIN	SEEDING & MULCHING	EROSION CONTROL BLANKET	CHECK DAM	ROCK SOCKS
INSTALLATION	PRIOR TO GRADING	IMMEDIATELY AFTER SITE GRADING	IMMEDIATELY AFTER SITE GRADING	IMMEDIATELY AFTER SITE GRADING	IMMEDIATELY AFTER SITE GRADING	IMMEDIATELY AFTER SITE GRADING	IMMEDIATELY AFTER STORM SEWER CONSTRUCTION	IMMEDIATELY AFTER SITE GRADING	PRIOR TO GRADING	PRIOR TO GRADING
REMOVAL	AFTER FINAL STABILIZATION	AT THE TIME OF SITE PAVING	AFTER COMPLETION OF SITE CONCRETE	AT THE TIME OF SITE PAVING	AFTER FINAL STABILIZATION	AT THE TIME OF FINAL STABILIZATION	PERMANENT	AFTER FINAL STABILIZATION	AFTER FINAL STABILIZATION	AFTER FINAL STABILIZATION

CAUTION NOTICE TO CONTRACTORS

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATED ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

PREPARED FOR:

HOVER ARCHITECTURE
TROY KIRSCHMAN
8089 S. LINCOLN ST., SUITE 201
LITTLETON, CO 80122
PH: 720-773-2801
FAX:

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MONUMENT HILL BUSINESS CENTER

LOT 3, GREATER EUROPE MISSION FILING NO. 1
EL PASO COUNTY, CO

GESC PLAN

KELLY DEVELOPMENT SERVICES, LLC

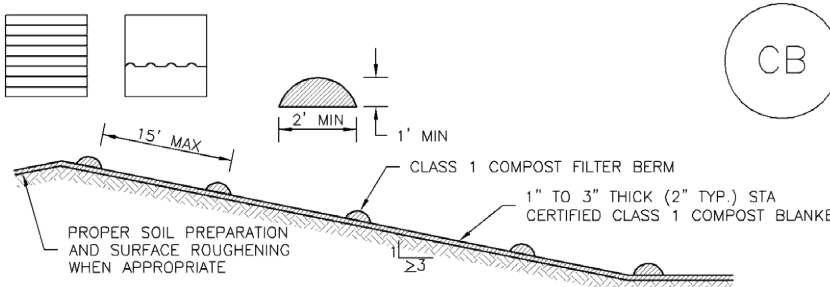
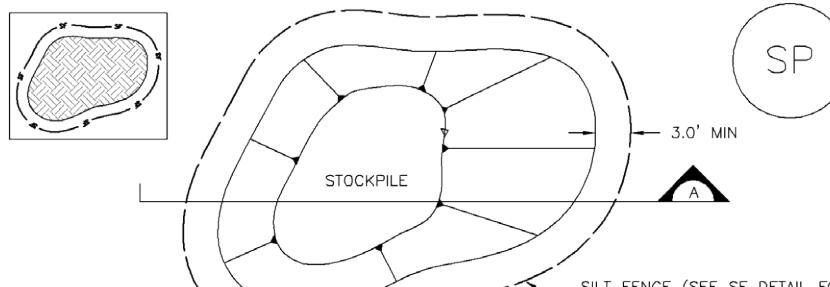
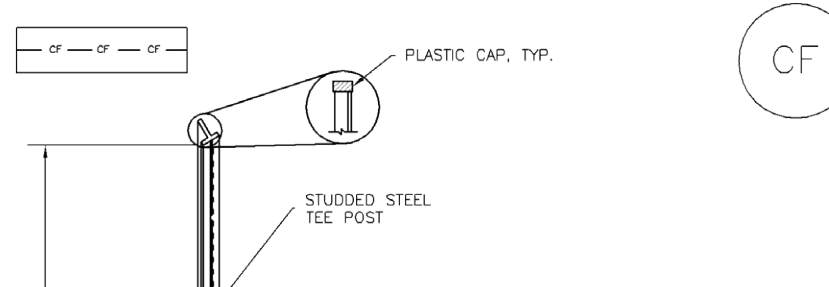
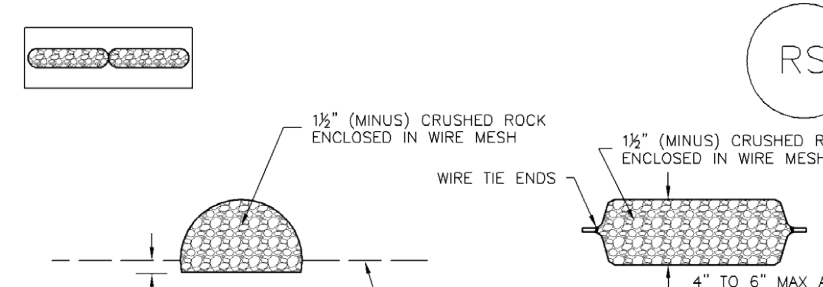
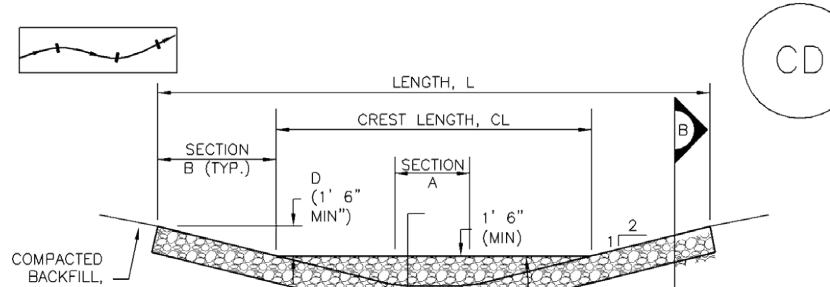
9301 SCRUB OAK DR
LONE TREE, CO 80124
303-888-6338
greg@kellydev.com

SHEET NUMBER

C2.1

SHEET 2
PROJECT NUMBER
1704.01

[Title.dwg] Drawing name: C:\data\Projects\1702_SBC\330\Sheet\SWMP\C2.2 - Erosion Control Details.dwg Feb 15, 2017 - 1:14pm

<div>Compost Blanket and Filter Berm (CB)</div> <div>EC-5</div> <div></div> <div><table><tr><th colspan="2">TABLE CB-1. CLASS 1 COMPOST</th></tr><tr><td>PARAMETERS</td><td>CHARACTERISTIC</td></tr><tr><td>MINIMUM STABILITY INDICATOR</td><td>STABLE TO VERY STABLE</td></tr><tr><td>SOLUBLE SALTS</td><td>MAXIMUM 5 mmhos/cm</td></tr><tr><td>PH</td><td>6.0 - 8.0</td></tr><tr><td>AG INDEX</td><td>> 10</td></tr><tr><td>MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR</td><td>80+/80+</td></tr><tr><td>MATURITY INDICATOR EXPRESSED AS AMMONIA-N, NITRATE-N RATIO</td><td>< 4</td></tr><tr><td>MATURITY INDEX AS CARBON TO NITROGEN RATIO</td><td>20:1</td></tr><tr><td>TESTED FOR CLOPYRALID</td><td>YES/NEGATIVE RESULT</td></tr><tr><td>MOISTURE CONTENT</td><td>30-60%</td></tr><tr><td>ORGANIC MATTER CONTENT</td><td>25-45% OF DRY WEIGHT</td></tr><tr><td>PARTICLE SIZE DISTRIBUTION</td><td>3" (75mm) 100% PASSING</td></tr><tr><td>PRIMARY, SECONDARY NUTRIENTS, TRACE ELEMENTS</td><td>MUST BE REPORTED</td></tr><tr><td>TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS</td><td>STA 1 CLOPYRALID</td></tr><tr><td>ORGANIC MATTER PER CUBIC YARD</td><td>MUST REPORT</td></tr><tr><td>CHEMICAL CONTAMINANTS</td><td>COMPLY WITH US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS</td></tr><tr><td>MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT</td><td>FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION</td></tr><tr><td>RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH</td><td>LOW</td></tr></table><div>CB-1. COMPOST BLANKET AND COMPOST FILTER BERM</div></div> <div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>CB-3</div></div>	TABLE CB-1. CLASS 1 COMPOST		PARAMETERS	CHARACTERISTIC	MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE	SOLUBLE SALTS	MAXIMUM 5 mmhos/cm	PH	6.0 - 8.0	AG INDEX	> 10	MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+	MATURITY INDICATOR EXPRESSED AS AMMONIA-N, NITRATE-N RATIO	< 4	MATURITY INDEX AS CARBON TO NITROGEN RATIO	20:1	TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT	MOISTURE CONTENT	30-60%	ORGANIC MATTER CONTENT	25-45% OF DRY WEIGHT	PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING	PRIMARY, SECONDARY NUTRIENTS, TRACE ELEMENTS	MUST BE REPORTED	TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA 1 CLOPYRALID	ORGANIC MATTER PER CUBIC YARD	MUST REPORT	CHEMICAL CONTAMINANTS	COMPLY WITH US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS	MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION	RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW	<div>Stockpile Management (SP)</div> <div>MM-2</div> <div></div> <div><p>STOCKPILE PROTECTION PLAN</p><p>SECTION A</p><p>SP-1. STOCKPILE PROTECTION</p><p>STOCKPILE PROTECTION INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF STOCKPILESTYPE OF STOCKPILE PROTECTIONINSTALL 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 SCUMPTON CONTROLS, 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 CONFINEMENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.</div> <div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>SP-3</div></div>	<div>SM-3</div> <div>Construction Fence (CF)</div> <div></div> <div><p>CF-1. PLASTIC MESH CONSTRUCTION FENCE</p><p>CONSTRUCTION FENCE INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF CONSTRUCTION FENCECONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4" HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.</div> <div><div>CF-2</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div>	<div>SC-5</div> <div>Rock Sock (RS)</div> <div></div> <div><p>RS-1. ROCK SOCK PERIMETER CONTROL</p><p>GRADATION TABLE</p><table><tr><th>SIEVE SIZE</th><th>MASS PERCENT PASSING SQUARE MESH SIEVES</th></tr><tr><td>NO. 4</td><td></td></tr><tr><td>2"</td><td>100</td></tr><tr><td>1 1/2"</td><td>80 - 100</td></tr><tr><td>1"</td><td>20 - 55</td></tr><tr><td>3/4"</td><td>0 - 15</td></tr><tr><td>3/8"</td><td>0 - 5</td></tr></table><p>MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER ASTM D 483. ALL ROCK SHALL BE FRACTURED FACE, ALL SIZES.</p></div> <div><div>RS-2</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div>	SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES	NO. 4		2"	100	1 1/2"	80 - 100	1"	20 - 55	3/4"	0 - 15	3/8"	0 - 5	<div>Check Dams (CD)</div> <div>EC-12</div> <div></div> <div><p>CD-1. CHECK DAM</p><p>SECTION A</p><p>SECTION B</p><p>PROFILE</p></div> <div><div>November 2010</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>CD-3</div></div>
TABLE CB-1. CLASS 1 COMPOST																																																								
PARAMETERS	CHARACTERISTIC																																																							
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE																																																							
SOLUBLE SALTS	MAXIMUM 5 mmhos/cm																																																							
PH	6.0 - 8.0																																																							
AG INDEX	> 10																																																							
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+																																																							
MATURITY INDICATOR EXPRESSED AS AMMONIA-N, NITRATE-N RATIO	< 4																																																							
MATURITY INDEX AS CARBON TO NITROGEN RATIO	20:1																																																							
TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT																																																							
MOISTURE CONTENT	30-60%																																																							
ORGANIC MATTER CONTENT	25-45% OF DRY WEIGHT																																																							
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING																																																							
PRIMARY, SECONDARY NUTRIENTS, TRACE ELEMENTS	MUST BE REPORTED																																																							
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA 1 CLOPYRALID																																																							
ORGANIC MATTER PER CUBIC YARD	MUST REPORT																																																							
CHEMICAL CONTAMINANTS	COMPLY WITH US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS																																																							
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION																																																							
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW																																																							
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES																																																							
NO. 4																																																								
2"	100																																																							
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3/4"	0 - 15																																																							
3/8"	0 - 5																																																							
<div>EC-5</div> <div>Compost Blanket and Filter Berm (CB)</div> <div><p>COMPOST FILTER BERM AND COMPOST BLANKET INSTALLATION NOTES</p><ol style="list-style-type: none">SEE PLAN VIEW FOR:<ul style="list-style-type: none">LOCATION OF COMPOST FILTER BERM(S)LENGTH OF COMPOST FILTER BERM(S)COMPOST BERMS AND BLANKETS MAY BE USED IN PLACE OF STORM MULCH OR GEOTEXTILE FABRIC IN AREAS WHERE ACCESS TO LANDSCAPING IS DIFFICULT DUE TO LANDSCAPING OR OTHER OBJECTS OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.DESIGN BERMS SHALL RUN PARALLEL TO THE CONTOUR.FILTER BERMS SHALL BE A MINIMUM OF 1' FEET HIGH AND 2' FEET WIDE.FILTER BERMS SHALL BE APPLIED BY PNEUMATIC BLOWER OR BY HAND.FILTER BERMS SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL AND NOT IN AREAS OF CONCENTRATED FLOW.COMPOST BLANKETS SHALL BE APPLIED AT A DEPTH OF 1 - 3 INCHES (TYPICALLY 2 INCHES). FOR AREAS WITH EXISTING VEGETATION THAT ARE TO BE SUPPLEMENTED BY COMPOST, A THIN 0.5-INCH LAYER MAY BE USED.SEEDING SHALL BE PERFORMED PRIOR TO THE APPLICATION OF COMPOST. ALTERNATIVELY, SEED MAY BE COMBINED WITH COMPOST AND BLOWN WITH THE PNEUMATIC BLOWER.WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO COMPOST APPLICATION.COMPOST SHALL BE A CLASS 1 COMPOST AS DEFINED BY TABLE CB-1.<p>COMPOST FILTER BERM MAINTENANCE NOTES</p><ol style="list-style-type: none">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.COMPOST BERMS AND BLANKETS SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RILLING IN THE COMPOST SURFACE OCCURS.<p>(DETAILS ADAPTED FROM WAPACORE COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)</p><p>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.</p></div> <div><div>CB-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div>	<div>MM-2</div> <div>Stockpile Management (SM)</div> <div><p>STOCKPILE PROTECTION MAINTENANCE NOTES</p><ol style="list-style-type: none">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.IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.<p>(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)</p><p>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.</p></div> <div><div>SP-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div>	<div>Construction Fence (CF)</div> <div>SM-3</div> <div><p>CONSTRUCTION FENCE MAINTENANCE NOTES</p><ol style="list-style-type: none">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.CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE, SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDING AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.<p>(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)</p><p>NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. 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INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDING AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.<p>(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)</p><p>NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. 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TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.THE EDGE OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.<p>CHECK DAM MAINTENANCE NOTES</p><ol style="list-style-type: none">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. 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CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.</p></div> <div><div>CD-4</div><div>Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3</div><div>November 2010</div></div>																																																				



CAUTION NOTICE TO CONTRACTORS
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

PREPARED FOR:

HOVER ARCHITECTURE
TROY KIRSCHMAN
8089 S. LINCOLN ST., SUITE 201
LITTLETON, CO 80122
PH: 720-773-2801
FAX:

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