# STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- . 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.
- . A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 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 PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE
- 3. 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.
- 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.
- 3. 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 ECM 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 50 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 LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 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 APPURTENANCES 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 ONSITE 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.
- 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 ONSITE 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 II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 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 RMG-ROCKY MOUNTAIN GROUP DATED AUGUST 18, 2020, REVISED MARCH 3, 2021, AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 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 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

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



- THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR. TEMPORARY SEDIMENT TRAP LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR IN THE
- FIELD. EXISTING SITE TERRIAN GENERALLY SLOPES FROM NORTH TO SOUTHWEST AT GRADE RATES THAT VARY BETWEEN 2% TO 6%.
- THERE ARE NO BATCH PLANTS ON SITE.
- AREAS LEFT OPEN FOR 30 DAYS OR MORE, OTHER THAN FOR UTILITY AND DRAINAGE CONSTRUCTION SHALL BE SEEDED AND/OR MULCHED.
- NO PORTION OF THIS PROPERTY IS LOCATED WITHIN A DESIGNATED FEMA FLOODPLAIN IN ACCORDANCE WITH FLOOD INSURANCE RATE MAPS (FIRM) 08041C0533G, EFFECTIVE DATE DECEMBER 7, 2018.

## **EXISTING VEGETATION:**

THE SITE ORIGINALLY CONSISTED OF PRAIRIE GRASSES AND SHRUBS. NO OTHER NOTABLE VEGETATION EXISTED. THE SITE IS PROPOSED FOR A RESIDENTIAL SUBDIVISION. IF THE SUBDIVISION IS NOT COMPLETED. THE ENTIRE SITE SHOULD BE RESERVED PER EPC SPECIFICATIONS. FOR AREAS OUTSIDE OF THE DEVELOPED LOTS, THE GROUND SHOULD BE RESEEDED PER EPC CRITERIA AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN. THE VEGETATION SHOULD BE VISUALLY INSPECTED TO EXCEED THE AMOUNT OF VEGETATION THAT EXISTS IN NON-DISTURBED AREAS AROUND THE SITE.

AREAS 19.65 AC TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: RECEIVING WATERS: SAND CREEK

BENCHMARKS

ELEVATION = 7023.42

ELEVATION = 7000.40

- 1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION NORTHING = 411416.273EASTING = 235167.071
- 2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404EASTING = 235052.131
- 3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962FASTING = 233849.817
- ELEVATION = 7030.82

Add text: PCD Filing No.: PUDSP222

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	AGENCIES OWNER:	CHALLENGER HOMES		TER	VTR	
		8605 EXPLORER DRIVE, SUITE 25 COLORADO SPRINGS, CO 80920 JIM BYERS (719) 602-5192	0		CO	SH
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	GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 TIM WENDT (719) 668–3556		VE., STE 305	3, CO 80903	
	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495–2283		AHSATCH A	DO SPRING: 719.955.5485	
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Item W. Provide construction fencing, barricades, and/or signage at access points not to be used for construction.

# SEDIMENT BASIN TABLE:

	UPSTREAM
SEDIMENT BASIN	DRAINAGE AREA
NO.	AC.
SB1	12
SB2	7

## ADDITIONAL NOTES:

- 2. THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROVIDE SUFFICIENT BUFFER BETWEEN THE LIMITS

## NARRATIVE NOTES:

- LOCATION OF STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. ALL STOCKPILES SHALL REMAIN WITHIN THE CONSTRUCTION BOUNDARIES AS INDICATED ON THE SITE MAP.
- OF EXACT LOCATION.
- OF DISTURBANCE AREA SHALL BE RESEEDED WITH NATIVE SEEDING.
- 5. EROSION CONTROL BLANKET SHALL BE USED ON SLOPES GREATER THAN 4:1.

	Items H and M	. If "limits of disturbance" and				
	"construction b	oundary" are the same,				
	or otherwise sh	now as separate line types for				
LEGEND	each on the leg	gend and figure.				$\sim$
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				A		
SITE BOUNDARY		CUT/FILL LINE	Ž			
-	1	LIMITS OF DISTURBANCE	X X			
PROP MAJ CONT	- <b>&gt;</b> • - <b>&gt;</b> •	TEMPORARY DRAINAGE SWALE				
PROP MIN CONT		ADJACENT PROPERTY BOUNDARY	9	L C C		
		SEDIMENT BASIN TRIBUTARY AREA			2/3	5 C
EXIST MAJ CONT		R.O.W./EASEMENT		Q		
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		EXISTING FIRE HYDRANT				
PROP STORM SEWER PIPE	•	EXISTING SANITARY MANHOLE	Ρ	SI(		··· ··
EXISTING STORM SEWER PIPE	_	EXISTING SIGN	μJ			ONTA /A ical /A
	M	EXISTING WATER VALVE	AS		SC/	JRIZ VERT VERT
		PROPOSED INLET	СН	প্র		Ĭ
STRAW BALE BARRIER – INTERIM		EXISTING FLOW DIRECTION ARROW	2 L	9	-014	CVW VAS
VEHICLE TRACKING CONTROL-INITIAL	-	PROPOSED FLOW DIRECTION ARROW	РРЕ	ADIN	0.09-	
	$\square$	FLARED END SECTION	0		N N	B B L D L D L D
TEMPORARY SEDIMENT BASIN-INITIAL	H.P. ×	HIGH POINT	)		DUEC	SIGNE AWN ECKE
	L.P. X	LOW POINT			PR(	DES DR/ CHE
INLET PROTECTION-FINAL	"A"	TYPE A LOT	)5	03		
	"B"	TYPE B LOT	STE 3(	808		
CONCRETE WASHOUT-INITIAL	"Т"	TRANSITION LOT	AVE	5S, C(		
	9	LOT NUMBER	ICH	PRING		
SOIL STOCKPILE – INITIAL STABILIZED STAGING AREA – INITIAL			212 N. WAHSA	COLORADO S PHONE: 719.95		

BASIN	BASIN	ANTIC. MAX		SPILLWAY	HOLE	ROWS
FT.	FT.	FT.	C.F.	FT.	IN.	IN STANDPIF
47.25 64	94.5 128	3 3	13,396 24,576	11 18	25/32 1	1 1

1. STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL ENGINEERING REPORT AND KEEP A COPY ONSITE DURING ALL EARTHWORK OPERATIONS.

OF DISTURBANCE AND AREAS IN WHICH NO GRADING SHALL OCCUR TO MAKE SUFFICIENT TIE IN BETWEEN THE PROPOSED GRADE AND EXISTING GRADE WHICH MAY NOT BE CLEARLY ILLUSTRATED ON THIS PLAN.

5. EXISTING VEGETATION CONSISTS OF SPARSE NATIVE GRASSES AND SHRUBS

2. THE EXACT LOCATION FOR THE STABILIZED STAGING AREA, STORAGE EQUIPMENT AND TEMPORARY DISPOSAL AREAS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. PLAN SHALL BE UPDATED BY CONTRACTOR UPON DETERMINATION

3. FINAL STABILIZATION SHALL BE COMPLETED AT THE END OF THE CONSTRUCTION ACTIVITIES. ALL AREAS DISTURBED WITHIN THE CONSTRUCTION BOUNDARY/LIMITS

4. NO PORTION OF THE PROPOSED CROSSROADS MIXED USE SITE LIES WITH A FEMA EFFECTIVE 100-YR FLOODPLAIN.

Copper Chase at erling Ranch



			/			
VIRGIL A. SANCHEZ,	, COLORADO P.E. NO. 37160					
APRV'D. BY: DATE:		DID NI MALICATOLI AVE BEF 30F	COFFER	UHADE AI	VIERLING R	ANCH
		212 N. WAHSAICH AVE., SIE 305				
	EOD AND ON					
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	CONSULTANTS,		FRUJECI NU. U3-U14	SCALE:	DATE: 12/31/21	
	INC.			HORIZONTAL:		
LANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, ES OF THESE PLANS. ALL CHANGES TO THE PLANS APPROVED BY THE PREPARER OF THESE PLANS.		CIVIL CONSULTANTS, INC.	DESIGNED BY: CVW DRAWN BY: CVW CHECKED BY: VAS	N/A VERTICAL: N/A	SHEET 2 OF 6	GR02

CAUTION

<b>EC-2</b>	<b>Temporary and Permanent Seeding (TS/PS)</b>	Tempor
soil amendme	ents and rototill them into the soil to a depth of 6 inches or more.	Seeding dates f
Topsoil shoul Topsoil shoul water-holding The rooting d minimum, the areas that will	d be salvaged during grading operations for use and spread on areas to be revegetated later. d be viewed as an important resource to be utilized for vegetation establishment, due to its g capacity, structure, texture, organic matter content, biological activity, and nutrient content. epth of most native grasses in the semi-arid Denver metropolitan area is 6 to 18 inches. At a e upper 6 inches of topsoil should be stripped, stockpiled, and ultimately respread across l be revegetated.	in the spring fr freezes. If the appropriate see <b>Table T</b>
Where topsoil medium. Org conducive to testing, which amounts of ar	l is not available, subsoils should be amended to provide an appropriate plant-growth ganic matter, such as well digested compost, can be added to improve soil characteristics plant growth. Other treatments can be used to adjust soil pH conditions when needed. Soil is typically inexpensive, should be completed to determine and optimize the types and nendments that are required.	
If the disturbe compost to th of a stable top	ed ground surface is compacted, rip or rototill the surface prior to placing topsoil. If adding e existing soil surface, rototilling is necessary. Surface roughening will assist in placement psoil layer on steeper slopes, and allow infiltration and root penetration to greater depth.	4
Prior to seedin nor compacted and conducive	ng, the soil surface should be rough and the seedbed should be firm, but neither too loose d. The upper layer of soil should be in a condition suitable for seeding at the proper depth e to plant growth. Seed-to-soil contact is the key to good germination.	7
Seed Mix fo	r Temporary Vegetation	1
To provide ter landscaped or appropriate for metropolitan a recommendat typically spec	mporary vegetative cover on disturbed areas which will not be paved, built upon, or fully worked for an extended period (typically 30 days or more), plant an annual grass or the time of planting and mulch the planted areas. Annual grasses suitable for the Denver area are listed in Table TS/PS-1. These are to be considered only as general ions when specific design guidance for a particular site is not available. Local governments tify seed mixes appropriate for their jurisdiction.	1 a
Seed Mix fo	r Permanent Revegetation	
To provide ve be established reaching final jurisdiction sh specific recon season listed i in these tables equipment.	egetative cover on disturbed areas that have reached final grade, a perennial grass mix should d. Permanent seeding should be performed promptly (typically within 14 days) after grade. Each site will have different characteristics and a landscape professional or the local nould be contacted to determine the most suitable seed mix for a specific site. In lieu of a mmendation, one of the perennial grass mixes appropriate for site conditions and growth in Table TS/PS-2 can be used. The pure live seed (PLS) rates of application recommended s are considered to be absolute minimum rates for seed applied using proper drill-seeding	b c
If desired for <i>nauseosus</i> ), for added to the uplanting root aplains cottony upland sites a	wildlife habitat or landscape diversity, shrubs such as rubber rabbitbrush ( <i>Chrysothamnus</i> ourwing saltbush ( <i>Atriplex canescens</i> ) and skunkbrush sumac ( <i>Rhus trilobata</i> ) could be upland seedmixes at 0.25, 0.5 and 1 pound PLS/acre, respectively. In riparian zones, stock of such species as American plum ( <i>Prunus americana</i> ), woods rose ( <i>Rosa woodsii</i> ), wood ( <i>Populus sargentii</i> ), and willow ( <i>Populus spp.</i> ) may be considered. On non-topsoiled a legume such as Ladak alfalfa at 1 pound PLS/acre can be included as a source of nitrogen	

TS/PS-2

for perennial grasses.

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

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

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

	Annua (Numbers in species in T	l Grasses table reference able TS/PS-1)	Perennial Grasses		
Seeding Dates	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			✓	$\checkmark$	

#### 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

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**Temporary and Permanent Seeding (TS/PS)** 

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

### **FS/PS-1.** Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species <sup>a</sup> (Common name)	Growth Season <sup>b</sup>	Pounds of Pure Live Seed (PLS)/acre <sup>°</sup>	Planting Depth (inches)						
1. Oats	Cool	35 - 50	1 - 2						
2. Spring wheat	Cool	25 - 35	1 - 2						
3. Spring barley	Cool	25 - 35	1 - 2						
4. Annual ryegrass	Cool	10 - 15	1/2						
5. Millet	Warm	3 - 15	1/2 - 3/4						
6. Sudangrass	Warm	5–10	<sup>1</sup> / <sub>2</sub> - <sup>3</sup> / <sub>4</sub>						
7. Sorghum	Warm	5–10	1/2 - 3/4						
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 annu usually produce enough dea	<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 mowed closer than 8 inches. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

- See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.
- Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

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# Mulching (MU)

## Description

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

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

## **Appropriate Uses**

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

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

Do not apply mulch during windy conditions.

### **Design and Installation**

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

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

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

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## **EC-2**



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

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

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

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

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

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.) Sandy Soil S Blue grama Camper little Prairie sandr Sand dropsee Vaughn sideo Arriba wester Heavy Clay, Ephriam cres Oahe Interme Vaughn sideo Lincoln smoo Arriba weste Total ' See Table TS/PS-3 for seeding dates. If site is to be irrigated, the transition turf seed rates should be doubled. <sup>1</sup> Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

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

**EC-4** 

TS/PS-4

## Mulching (MU)

- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.
- Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to dry; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.
- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

### Maintenance and Removal

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

MU-2

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

**Temporary and Permanent Seeding (TS/PS)** 

June 2012

Common Name	Botanical Name	Growth Season <sup>b</sup>	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Seed Mix	· · ·				
	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000	0.5
e bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000	1.0
reed	Calamovilfa longifolia	Warm	Open sod	274,000	1.0
ed	Sporobolus cryptandrus	Cool	Bunch	5,298,000	0.25
oats grama	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
ern wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
Total					10.25
, Rocky Foothill Seed	l Mix			1	1
sted wheatgrass <sup>d</sup>	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	1.5
ediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000	5.5
oats grama <sup>e</sup>	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
oth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
ern wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
					17.5

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>2</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.

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sses (cont.)					VIAN	DET/		9
Seeds/ Pound	Pounds of PLS/acre				ヒ り		/21	9
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240,000 274.000	1.0				ビ 山 一	NOX		IEET
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# **Inlet Protection (IP)**

FLOW ----D (12" MIN.) · CULVERT END SECTION BACKFILL UPSTREAM OF WATTLE ROCK SOCK - ROCK SOCK CULVERT INLET PROTECTION SECTION A <u>PLAN</u> Γ<sup>10" MIN.</sup> KEY IN ROCK SOCK O" ON BEDROCK, PAVEMENT OR RIPRAP KEY IN ROCK SOCK 2" ON EARTH SECTION B CIP-1. CULVERT INLET PROTECTION CULVERT INLET PROTECTION INSTALLATION NOTES 1. SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION. 2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING CULVERT INLET PROTECTION MAINTENANCE NOTES 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ THE HEIGHT OF THE ROCK SOCK. 5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. (DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

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#### IP-7

**SC-6** 

# **Inlet Protection (IP)**

**SC-6** 

- Remove sediment accumulation from the area upstream of the inlet protection, as needed to maintain BMP effectiveness, typically when it reaches no more than half the storage capacity of the inlet tection. For silt fence, remove sediment when it accumulates to a depth of no more than 6 inches. Remove sediment accumulation from the area upstream of the inlet protection as needed to maintain the functionality of the BMP.
- Propriety inlet protection devices should be inspected and maintained in accordance with manufacturer specifications. If proprietary inlet insert devices are used, sediment should be removed in a timely manner to prevent devices from breaking and spilling sediment into the storm drain.

Inlet protection must be removed and properly disposed of when the drainage area for the inlet has reached final stabilization.

August 2013

		TE 305 COLFER CHASE AL SIERLING RANCH	CO 80903 GRADING & EROSION CONTROL DETAILS	PROJECT NO. 09-014 SCALF. 12/21/21		DESIGNED BY: CVW N/A DRAWN BY: CVW VERTICAL: SHEET 4 OF 6 GR04 CHECKED BY: VAS N/A
		212 N. WAHSATCH AVE	COLORADO SPRINGS, PHONE: 719 955 5485			CIVIL CONSULTANTS, INC.
	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160		FOR AND ON Rehalf of	M&S CIVIL CONSLITANTS	INC.	
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987	REVISIONS:	NO. DATE: BY: DESCRIPTION: APRV'D. BY: DATE:				THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

NOTE: SEE URBAN DRAINAGE CRITERIA MANUAL (VOL. 3 FOR INSTALLATION AND MAINTENANCE (TYP)

ence (SF)	SC-1	<b>SC-1</b>	Silt Fence (SF)	<u>SC-1</u>	Slit Fence (SF)
- SF - SF - 1 ½ (RE) FEN SPA	" x 1 ½" COMMENDED) WOODEN CE POST WITH 10' MAX	1. SILT FENCE MUST BE PLACED AWAY PONDING. SILT FENCE AT THE TOE OF A AT LEAST SEVERAL FEET (2-5 FT) FROM PONDING AND DEPOSITION.	ROM THE TOE OF THE SLOPE TO ALLOW FOR WATER SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION THE TOE OF THE SLOPE TO ALLOW ROOM FOR	1. SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWA PONDING. SILT FENCE AT THE TOE OF AT LEAST SEVERAL FEET (2-5 FT) FF PONDING AND DEPOSITION.	7 FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION DM THE TOE OF THE SLOPE TO ALLOW ROOM FOR
SILT FENCE GEOTEXTILE		2. A UNIFORM 6" X 4" ANCHOR TRENCH FENCE INSTALLATION DEVICE. NO ROAD BE USED	I SHALL BE EXCAVATED USING TRENCHER OR SILT RADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL	2. A UNIFORM 6" X 4" ANCHOR TREI FENCE INSTALLATION DEVICE, NO ROA BE LISED	CH SHALL BE EXCAVATED USING TRENCHER OR SILT GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL
		3. COMPACT ANCHOR TRENCH BY HAND COMPACTION SHALL BE SUCH THAT SILT	WITH A "JUMPING JACK" OR BY WHEEL ROLLING. FENCE RESISTS BEING PULLED OUT OF ANCHOR	3. COMPACT ANCHOR TRENCH BY HAI COMPACTION SHALL BE SUCH THAT S	D WITH A "JUMPING JACK" OR BY WHEEL ROLLING. T FENCE RESISTS BEING PULLED OUT OF ANCHOR
COMPACTED		TRENCH BY HAND. 4. SILT FENCE SHALL BE PULLED TIGHT BE NO NOTICEABLE SAG BETWEEN STAKI	AS IT IS ANCHORED TO THE STAKES. THERE SHOULD S AFTER IT HAS BEEN ANCHORED TO THE STAKES.	TRENCH BY HAND. 4. SILT FENCE SHALL BE PULLED TIG BE NO NOTICEABLE SAG BETWEEN ST	IT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD KES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
FLOW	36"-48"	5. SILT FENCE FABRIC SHALL BE ANCHO OR NAILS WITH 1" HEADS. STAPLES AND	RED TO THE STAKES USING 1" HEAVY DUTY STAPLES NAILS SHOULD BE PLACED 3" ALONG THE FABRIC	5. SILT FENCE FABRIC SHALL BE AND OR NAILS WITH 1" HEADS. STAPLES A	HORED TO THE STAKES USING 1" HEAVY DUTY STAPLES ND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC
	<u>TYP.</u>	6. AT THE END OF A RUN OF SILT FEN TURNED PERPENDICULAR TO THE CONTO	CE ALONG A CONTOUR, THE SILT FENCE SHOULD BE JR TO CREATE A "J-HOOK." THE "J-HOOK"	6. AT THE END OF A RUN OF SILT F TURNED PERPENDICULAR TO THE CON	ENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE OUR TO CREATE A "J-HOOK." THE "J-HOOK"
6" MIN		EXTENDING PERPENDICULAR TO THE CON RUNOFF FROM FLOWING AROUND THE EN	TOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP D OF THE SILT FENCE (TYPICALLY 10' - 20').	EXTENDING PERPENDICULAR TO THE C RUNOFF FROM FLOWING AROUND THE	DNTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP END OF THE SILT FENCE (TYPICALLY 10' - 20').
AT LEAST 10" OF SILT FENCE "TAIL" SHALL BE		SILT FENCE MAINTENANCE NOTES	A TO ANT DATE DISTORBING ACTIVITIES.	SILT FENCE MAINTENANCE NOTES	NOR TO ANT EARD DISTORBING ACTIVITIES.
BURIED		1. INSPECT BMPS EACH WORKDAY, AND MAINTENANCE OF BMPS SHOULD BE PRO POSSIBLE (AND ALWAYS WITHIN 24 HOU EROSION, AND PERFORM NECESSARY MA	MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. ACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS IS) FOLLOWING A STORM THAT CAUSES SURFACE NTENANCE.	1. INSPECT BMPs EACH WORKDAY, AN MAINTENANCE OF BMPs SHOULD BE / POSSIBLE (AND ALWAYS WITHIN 24 H EROSION, AND PERFORM NECESSARY	D MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. ROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS URS) FOLLOWING A STORM THAT CAUSES SURFACE MAINTENANCE.
· <u> </u>	·	2. FREQUENT OBSERVATIONS AND MAINT EFFECTIVE OPERATING CONDITION. INSPEC	INANCE ARE NECESSARY TO MAINTAIN BMPs IN ITIONS AND CORRECTIVE MEASURES SHOULD BE	2. FREQUENT OBSERVATIONS AND MAI EFFECTIVE OPERATING CONDITION. INS	ITENANCE ARE NECESSARY TO MAINTAIN BMPs IN IECTIONS AND CORRECTIVE MEASURES SHOULD BE
SILT FENCE	POSTS SHALL OVERLAP	3. WHERE BMPs HAVE FAILED, REPAIR O DISCOVERY OF THE FAILURE.	R REPLACEMENT SHOULD BE INITIATED UPON	3. WHERE BMPs HAVE FAILED, REPAIR DISCOVERY OF THE FAILURE.	OR REPLACEMENT SHOULD BE INITIATED UPON
JOIN	EXIST IN SILT FENCE	4. SEDIMENT ACCUMULATED UPSTREAM ( TO MAINTAIN THE FUNCTIONALITY OF THE SEDIMENTS IS APPROXIMATELY 6"	F THE SILT FENCE SHALL BE REMOVED AS NEEDED BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED	4. SEDIMENT ACCUMULATED UPSTREAM TO MAINTAIN THE FUNCTIONALITY OF SEDIMENTS IS APPROXIMATELY 6"	OF THE SILT FENCE SHALL BE REMOVED AS NEEDED HE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED
		5. REPAIR OR REPLACE SILT FENCE WHI TEARING, OR COLLAPSE.	IN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING,	5. REPAIR OR REPLACE SILT FENCE T TEARING, OR COLLAPSE.	HEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING,
DSTS SHALL BE JOINED AS WN, THEN ROTATED 180 DEG. THICK DIRECTION SHOWN AND DRIVEN	NESS OF GEOTEXTILE HAS	6. SILT FENCE IS TO REMAIN IN PLACE AND APPROVED BY THE LOCAL JURISDIC SEDIMENT CONTROL BMP.	UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED TION, OR IS REPLACED BY AN EQUIVALENT PERIMETER	6. SILT FENCE IS TO REMAIN IN PLAC AND APPROVED BY THE LOCAL JURISI SEDIMENT CONTROL BMP.	E UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED ICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER
INTO THE GROUND		7. WHEN SILT FENCE IS REMOVED, ALL SEEDED AND MULCHED OR OTHERWISE S	DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, TABILIZED AS APPROVED BY LOCAL JURISDICTION.	7. WHEN SILT FENCE IS REMOVED, AN SEEDED AND MULCHED OR OTHERWIS	L DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, STABILIZED AS APPROVED BY LOCAL JURISDICTION.
		(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO NOTE: MANY JURISDICTIONS HAVE BMP [	AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD) ETAILS THAT VARY FROM UDFCD STANDARD DETAILS.	(DETAIL ADAPTED FROM TOWN OF PARKER, COLOR NOTE: MANY JURISDICTIONS HAVE BMI	DO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD) DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.
Urban Storm Drainage Criteria Manual V	olume 3	Urban Storm Drainage	Criteria Manual Volume 3	Urban Storm Draina	e Criteria Manual Volume 3
Bale Barrier (SBB)	SC-3	Urban Storm Drainage Vehicle Tracking Contro	Criteria Manual Volume 3	Urban Storm Draina	chicle Tracking Control (VTC)
Bale Barrier (SBB)	SC-3	Urban Storm Drainage Vehicle Tracking Contro	Criteria Manual Volume 3	Urban Storm Draina	ehicle Tracking Control (VTC)
Bale Barrier (SBB)	SC-3	Urban Storm Drainage	Criteria Manual Volume 3 DI (VTC) SM-4 VTC	Urban Storm Draina SM-4 V <u>STABILIZED CONSTRUCTION ENTRANCE</u> , 1. SEE PLAN VIEW FOR	entria Manual Volume 3 Phicle Tracking Control (VTC)
STRAW BALE INSTALLATION NOTES  STRAW BALE INSTALLATION NOTES  STRAW BALES SHALL CONSIST OF CERTIFIED WEED FRE UNDERPORTING FOR CONSIST OF CERTIFIED WEED FRE	E STRAW OR HAY. LOCAL	Urban Storm Drainage	Criteria Manual Volume 3 DI (VTC) SM-4 VTC 20 FOOT (WIDTH CAN BE (WIDTH CAN BE (WIDTH CAN BE	Urban Storm Draina SM-4 V STABILIZED CONSTRUCTION ENTRANCE, 1. SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRA CONSTRUCTION MAT OR TRM).	EXIT INSTALLATION NOTES
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Bale Barrier (SBB) Bale Barrier (SBB) Bale Barrier (SBB) Bale Barrier (SBB) Bale Barrier (SBB) Bale Barrier (SBB) Bale Barrier (SBB) Straw bale installation notes Straw bales shall consist of certified weed free risdictions may require proof that bales are wei straw bales shall consist of approximately 5 c igh not less than 35 pounds. When straw bales are used in series as a barrier tightly abutting one another. Straw bale dimensions shall be approximately 30 A UNIFORM ANCHOR TRENCH SHALL BE APPROXIMATELY 30 A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO ALL BE PLACED SO THAT BINDING TWINE IS ENCOMPAS Le(S), ALL EXCAVATED SOIL SHALL BE PLACED ON THE D COMPACTED. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD BE BAWE BALE MAINTENANCE NOTES INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN INTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REAL	E STRAW OR HAY. LOCAL E STRAW OR HAY. LOCAL ED FREE. JBIC FEET OF STRAW OR HAY AND ER, THE END OF EACH BALE SHALL S"X18"X18". A DEPTH OF 4". STRAW BALES SING THE VERTICAL SIDES OF THE UPHILL SIDE OF THE STRAW BALES SING THE VERTICAL SIDES OF THE UPHILL SIDE OF THE STRAW BALE(S) ACH BALE IN PLACE. WOODEN DRIVEN 6" INTO THE GROUND. EFFECTIVE OPERATING CONDITION. STIVE. INSPECT BMPs AS SOON AS	Urban Storm Drainage	AI (VTC) SM-4	Urban Storm Draina SM-4 V STABILIZED CONSTRUCTION ENTRANCE, 1. SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRA CONSTRUCTION MAT OR TRM. 2. CONSTRUCTION MAT OR TRM. 3. A STABILIZED CONSTRUCTION ENTRA WHERE THERE WILL BE LIMITED VEHIC 3. A STABILIZED CONSTRUCTION ENTRAN DISTURBING ACTIVITIES. 5. A NON-WOVEN GEOTEXTILE FABRIC CONSTRUCTION ENTRANCE/EXIT PRIOR 6. UNLESS OTHERWISE SPECIFIED BY SECT. #703, AASHTO #3 COARSE AGC STABILIZED CONSTRUCTION ENTRANCE, 1. INSPECT BMPs EACH WORKDAY, AM MAINTENANCE OF BMPs SHOULD BE F POSSIBLE F (AND ALWASS WITHIN 26 AH	EXIT INSTALLATION NOTES EXIT INSTALLATION NOTES ITRANCE(S)/EXIT(S). NCE(S)/EXIT(S). NCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, IZED CONSTRUCTION ENTRANCES ARE ONLY TO BE (TYPICALLY RANGING FROM A WEEK TO A MONTH) ULAR ACCESS. INCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS NUCTION SITE FROM PAVED RIGHT-OF-WAYS. DE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND SHALL BE PLACED UNDER THE STABILIZED TO THE PLACEMENT OF ROCK. LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT REGATE OR 6" (MINUS) ROCK. EXIT MAINTENANCE NOTES D MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. ROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS UNES) EQUIDMENDA & STORM THAT COLUSIES SUBJECTOR
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# PUDSP22002-R1-Grading & Erosion Control Plan.pdf Markup Summary

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	Subject: Stamp - Stormwater Comment Legend Page Label: [1] 1 GR01 Author: Glenn Reese - EPC Stormwater Date: 4/25/2022 5:04:34 PM Status: Color: Layer: Space:	
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	Subject: SW - Textbox with Arrow Page Label: [2] 2 GR02 Author: Glenn Reese - EPC Stormwater Date: 4/25/2022 5:09:42 PM Status: Color: Layer: Space:	Item W. Provide construction fencing, barricades, and/or signage at access points not to be used for construction.