HOMESTEAD AT STERLING RANCH FILING COUNTY OF EL PASO, STATE OF COLORADO FINAL GRADING/EROSION CONTROL PL

STANDARD CONSTRUCTION NOTES:

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO SPRINGS.
- 3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIME INCLUDING THE FOLLOWING: 3.1 EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- 3.2 CITY OF COLORADO SPRINGS/FL PASO COUNTY ENGINEERING CRITERA MANUAL VOLUMES 1 AND 2. 3.3 COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. 3.4 CDOT M&S STANDARDS.
- 4. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ACCURACY SHOW EXISTING CONDITION BOTH ONSITE AND OFFSITE ON THE CONSTRUCTION PLANS. ANY MODIFICATION NECESSARY DUE TO CONFLICT OMISSIONS OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPERS RESPONSIBILITY TO RECTIFY.
- 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. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORM WATER QUALITY CONTROL PERMIT (ESQCP), US ARMY CORPS OF ENGINEER ISSUED 401 AND/OR 404 PERMITS AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 7. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE CONSTRUCTION SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 8. ANY TEMPORARY SIGNAGE AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOW AND MUTCD CRITERIA.
- 9. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRE BY EL PASO COUNTY DOT INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 10. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFFSITE DISTURBANCE GRADING, OR CONSTRUCTION.

GRADING AND EROSION CONTROL NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORWWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS Update to current notes INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR Planing and Community TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF
- 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.
- 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.
- 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).
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1. 13. 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. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 14. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 19. 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.
- 20. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- 21. 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.
- 22. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 23. PRIOR TO ACTUAL CONSTRUCTION, THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 24. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND. Identify the report name and date.
- 25. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS. 26. 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 CONTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIROMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT: COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 - WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH
 - DENVER, CO 80246-1530 ATTN: PERMITS UNIT

27. NO PORTION OF THIS PROPERTY IS LOCATED WITHIN A DESIGNATED FEMA FLOODPLAIN IN ACCORDANCE WITH FLOOD INSURANCE RATE MAPS (FIRM) 08041C0535F, EFFECTIVE DATE MARCH 17, 1997. Update to current FIRM Panel Dec. 7, 2018.

ADDITIONAL NOTES

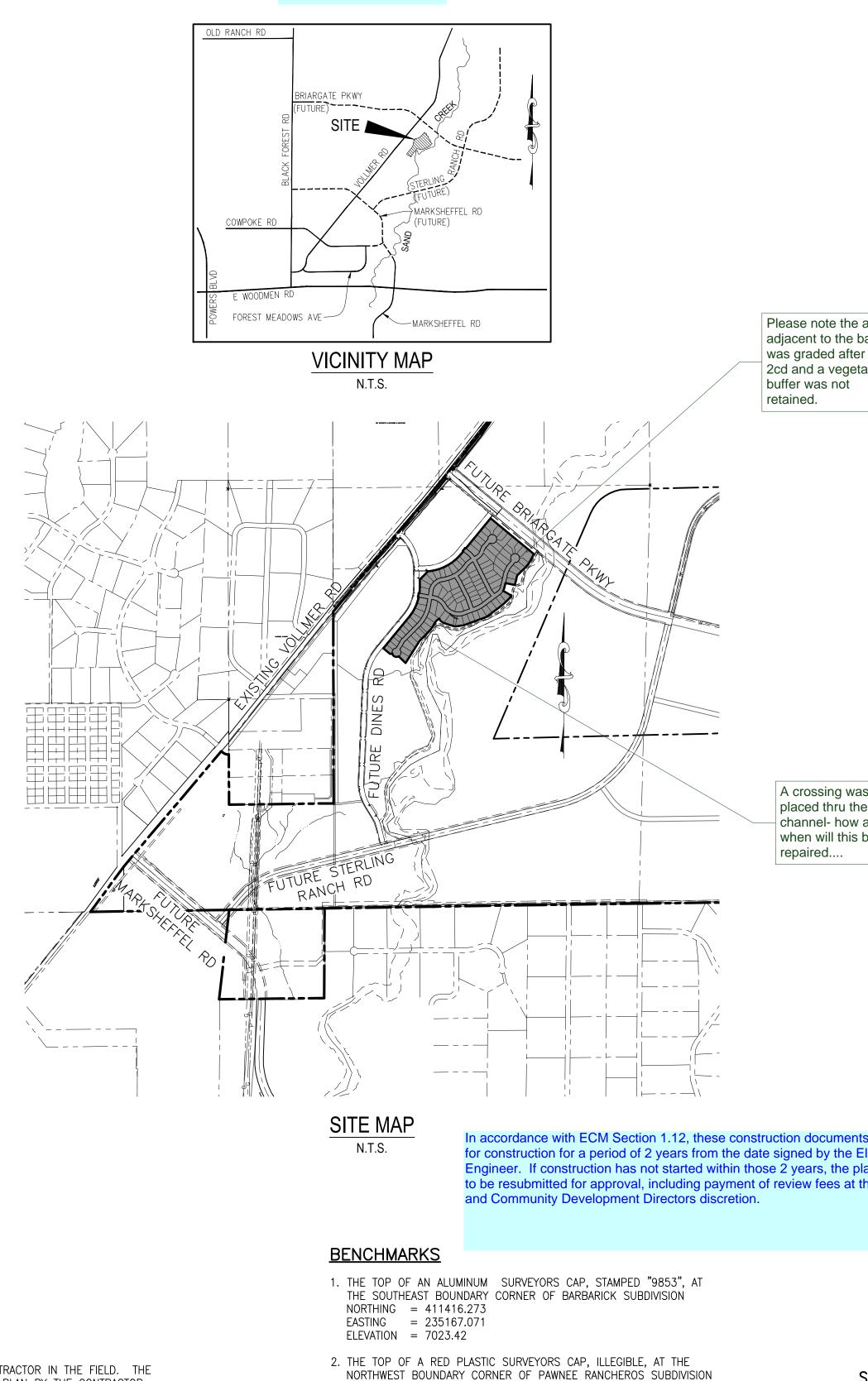
STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.

THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.

the contractor in the field.

Development PCD

FEBRUARY 2019 SF-19-004



Temporary sediment trap locations will be determined by

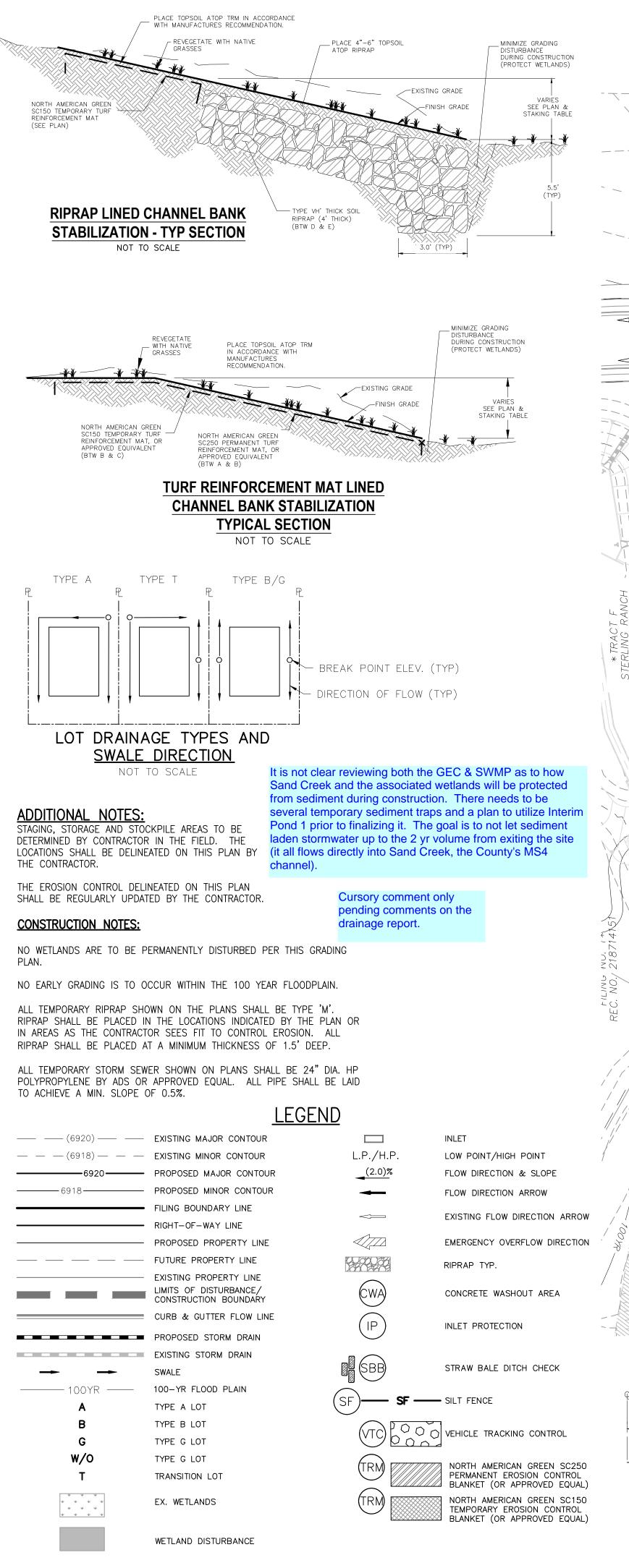
3. THE TOP OF A RED PLASTIC SURVEYORS CAP. STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817ELEVATION = 7030.82

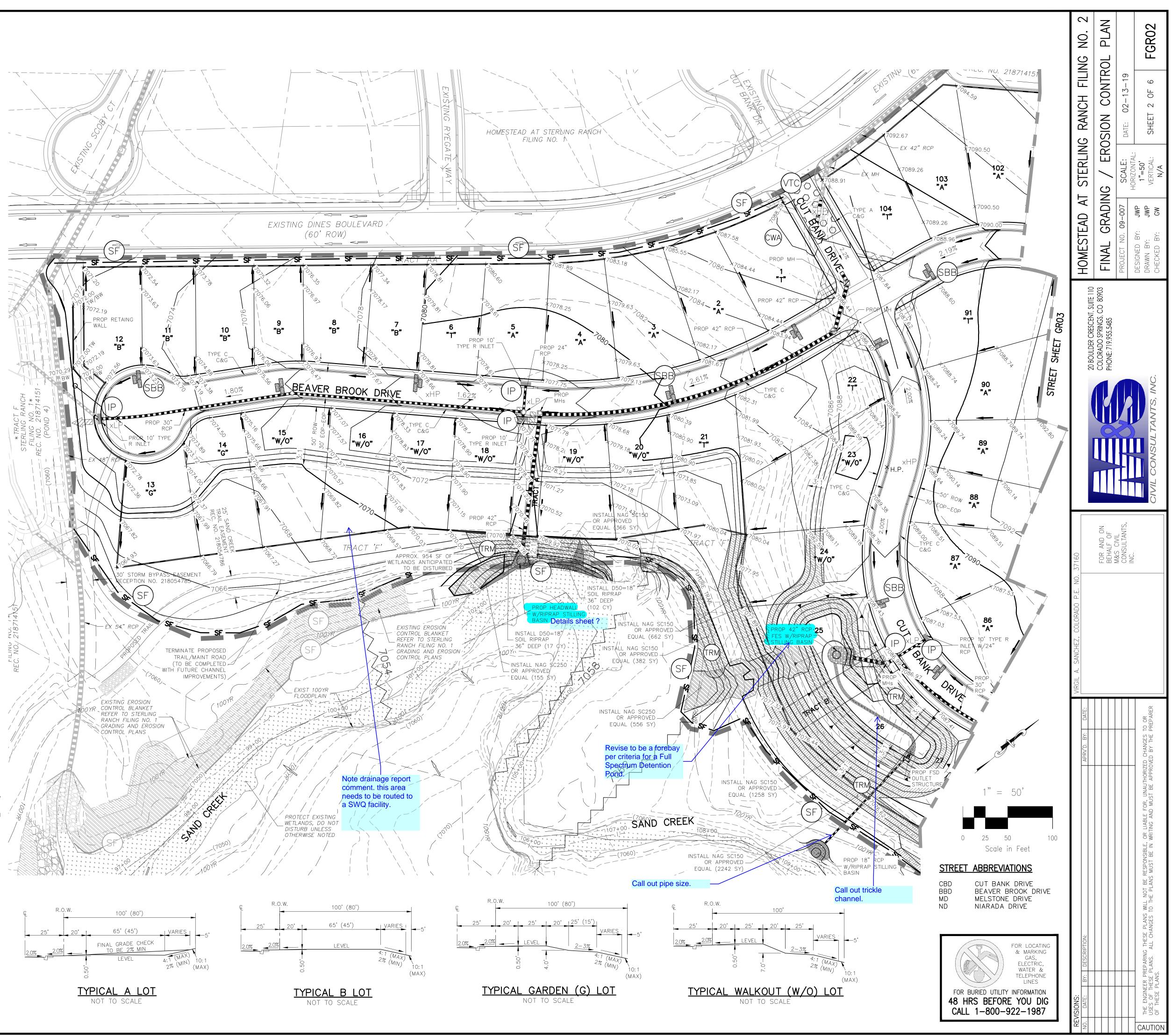
NORTHING = 410095.404

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	CIVIL ENGINEER:	M & S CIVIL CONSULTANTS, INC. 20 BOULDER CRESCENT, SUITE COLORADO SPRINGS, CO 80903 VIRGIL A. SANCHEZ P.E. (719) S		AT	ADIN	09–007 FILE: JWP S JWP HORIZ GW VERT:
	COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SU COLORADO SPRINGS, CO 80910	ITE 110	OMESTEAD		PROJECT NO. 0 DESIGNED BY: DRAWN BY: CHECKED BY:
	TRAFFIC ENGINEERING:	JEFF RICE, P.E. (719) 520–630 EL PASO COUNTY DEPARTMENT (3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 JENNIFER IRVINE, P.E. (719) 520	OF PUBLIC WORKS	Ť		DE DE
	WATER RESOURCES:	STERLING RANCH METRO DISTRIC JDS-HYDRO CONSULTANTS 545 E. PIKES PEAK AVE., SUITE COLORADO SPRINGS, CO 80903	T ENGINEERS		COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485	
e area bank er April tative	FIRE DISTRICT:	JOHN MCGINN (719) 668–8769 BLACK FOREST FIRE PROTECTION 11445 TEACHOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK (719) 495–4			COLOR PHONE:	SC.
	GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 TIM WENDT (719) 668–3556			U	TANTS, I
	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495–2283			U	CONSUL
	COMMUNICATIONS:	QWEST COMMUNICATIONS (U.N.C.C. LOCATORS) (800) 922- AT&T (LOCATORS) (719) 635–36				CIVIL 0
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	JENNIFER IRVINE, P.E. COUNTY ENGINEER/ECM ADM	INISTRATOR	DATE			THESE PLANS WILL NOT BE RESPONSIBLE, ALL CHANGES TO THE PLANS MUST BE IN
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ALL TEMPORARY STORM SEWER SHOWN ON PLANS SHALL BE 24" DIA. HP POLYPROPYLENE BY ADS OR APPROVED EQUAL. ALL PIPE SHALL BE LAID TO ACHIEVE A MIN. SLOPE OF 0.5%.

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

soil amendments and rototill them into the soil to a depth of 6 inches or more.

Topsoil should be salvaged during grading operations for use and spread on areas to be revegetated later. Topsoil should be viewed as an important resource to be utilized for vegetation establishment, due to its water-holding capacity, structure, texture, organic matter content, biological activity, and nutrient content. The rooting depth of most native grasses in the semi-arid Denver metropolitan area is 6 to 18 inches. At a minimum, the upper 6 inches of topsoil should be stripped, stockpiled, and ultimately respread across areas that will be revegetated.

Where topsoil is not available, subsoils should be amended to provide an appropriate plant-growth medium. Organic matter, such as well digested compost, can be added to improve soil characteristics conducive to plant growth. Other treatments can be used to adjust soil pH conditions when needed. Soil testing, which is typically inexpensive, should be completed to determine and optimize the types and amounts of amendments that are required.

If the disturbed ground surface is compacted, rip or rototill the surface prior to placing topsoil. If adding compost to the existing soil surface, rototilling is necessary. Surface roughening will assist in placement of a stable topsoil layer on steeper slopes, and allow infiltration and root penetration to greater depth.

Prior to seeding, the soil surface should be rough and the seedbed should be firm, but neither too loose nor compacted. The upper layer of soil should be in a condition suitable for seeding at the proper depth and conducive to plant growth. Seed-to-soil contact is the key to good germination.

Seed Mix for Temporary Vegetation

To provide temporary vegetative cover on disturbed areas which will not be paved, built upon, or fully landscaped or worked for an extended period (typically 30 days or more), plant an annual grass appropriate for the time of planting and mulch the planted areas. Annual grasses suitable for the Denver metropolitan area are listed in Table TS/PS-1. These are to be considered only as general recommendations when specific design guidance for a particular site is not available. Local governments typically specify seed mixes appropriate for their jurisdiction.

Seed Mix for Permanent Revegetation

To provide vegetative cover on disturbed areas that have reached final grade, a perennial grass mix should be established. Permanent seeding should be performed promptly (typically within 14 days) after reaching final grade. Each site will have different characteristics and a landscape professional or the local jurisdiction should be contacted to determine the most suitable seed mix for a specific site. In lieu of a specific recommendation, one of the perennial grass mixes appropriate for site conditions and growth season listed in Table TS/PS-2 can be used. The pure live seed (PLS) rates of application recommended in these tables are considered to be absolute minimum rates for seed applied using proper drill-seeding equipment.

If desired for wildlife habitat or landscape diversity, shrubs such as rubber rabbitbrush (Chrysothamnus nauseosus), fourwing saltbush (Atriplex canescens) and skunkbrush sumac (Rhus trilobata) could be added to the upland seedmixes at 0.25, 0.5 and 1 pound PLS/acre, respectively. In riparian zones, planting root stock of such species as American plum (Prunus americana), woods rose (Rosa woodsii), plains cottonwood (Populus sargentii), and willow (Populus spp.) may be considered. On non-topsoiled upland sites, a legume such as Ladak alfalfa at 1 pound PLS/acre can be included as a source of nitrogen for perennial grasses.

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

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

June 2012

June 2012

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

	(Numbers in	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			✓	√	

Mulch

TS/PS-2

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

EROSION CONTROL CRITERIA:

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

Urban Drainage and Flood Control District

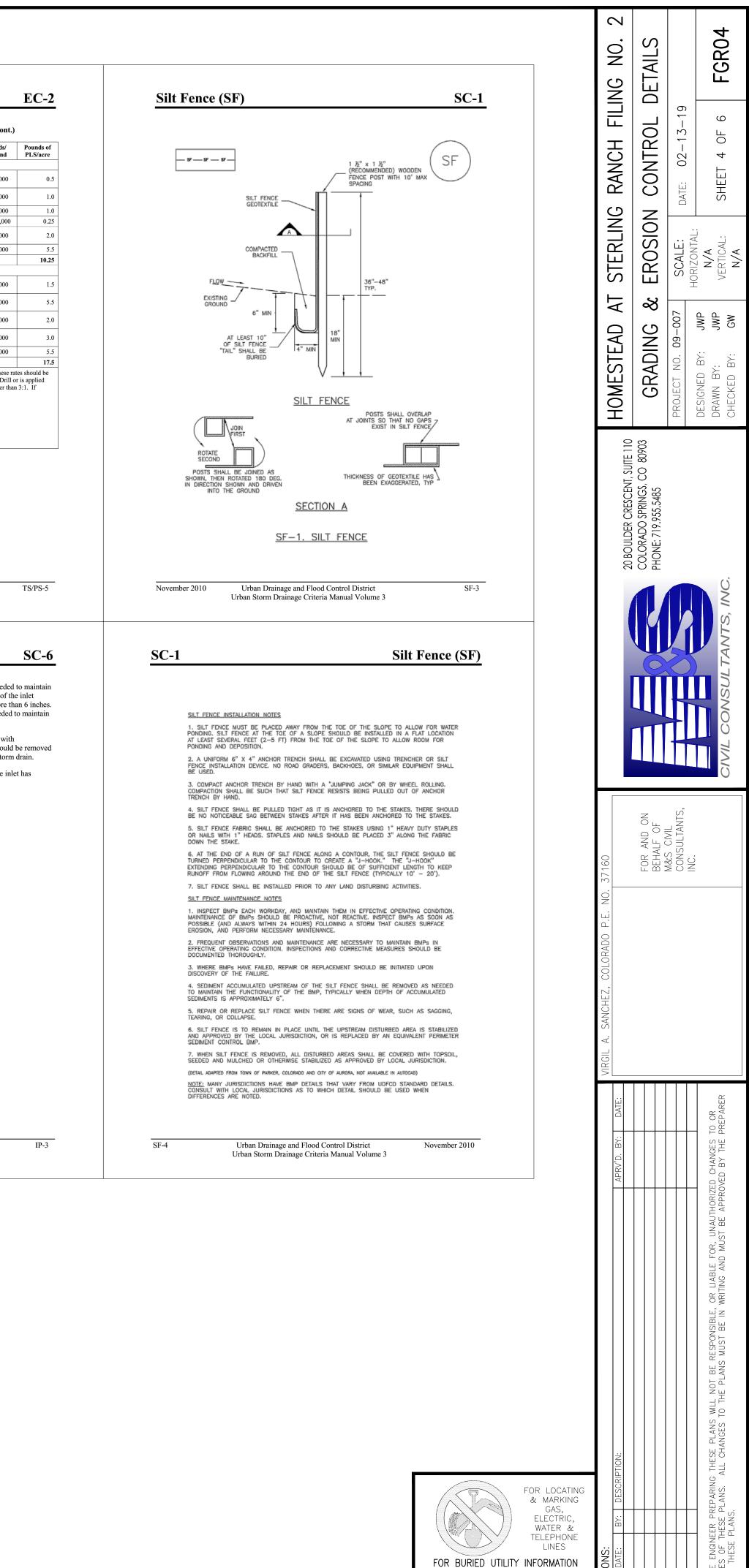
Urban Storm Drainage Criteria Manual Volume 3

- 1. PRIOR TO START OF GRADING OPERATIONS, LOCATE AND SET THE SEDIMENT BERM AND VEHICLE TRACKING CONTROL AS SHOWN ON THE EROSION CONTROL PLAN.
- 2. THE SEDIMENT BERM SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT COLLECTED BY THE SEDIMENT BERM IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE SEDIMENT BERM.
- 3. EROSION CONTROL DEVICES SHOULD BE CHECKED AFTER EVERY STORM OR NOT MORE THAN EVERY 14 DAYS. REPAIRS OR REPLACEMENT SHOULD BE MADE AS NECESSARY TO MAINTAIN PROPER PROTECTION.

SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT THE 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 BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

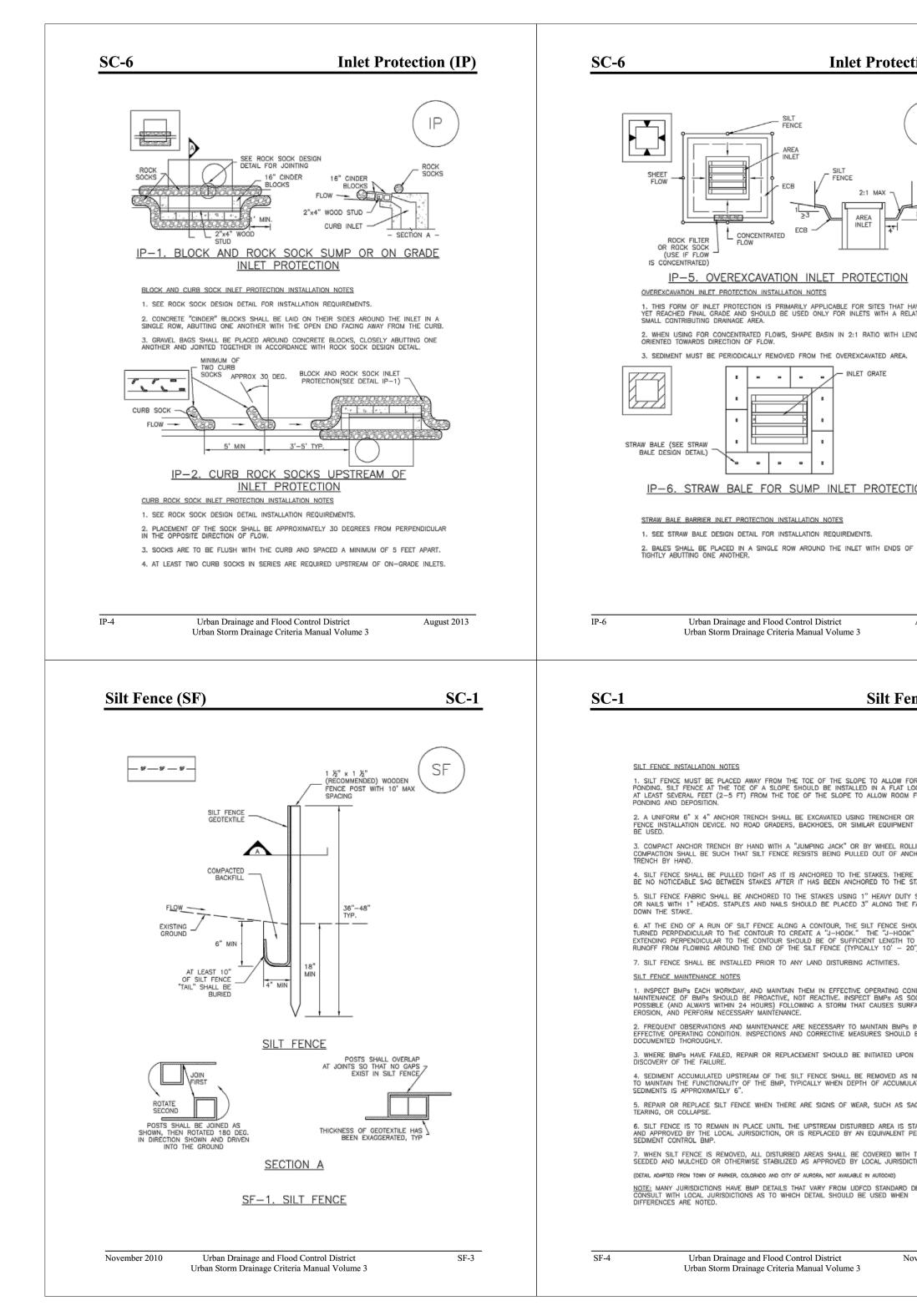
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ng from April	thest success pro through early M igated, seeding r	ay and in th	e fall after t	he first of Sep	tember un			PS-2. Minimum Drill Seed	Growth	Growth	Grasses Seeds/	Pounds of	[Table TS/PS-2.	Botanical	Growth	Perennial Gra	sses (cont.) Seeds/
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ble TS/PS-1.	Minimum Drill	Seeding Ra	ates for Va	rious Tempor	rary Annu	al Grasses	Alakali Soil Seed Mix Alkali sacaton	Sporobolus airoides	Cool	Bunch	1,750,000	0.25		Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000
S	becies ^a	Growth		nds of Live Seed	Planting Depth		Basin wildrye Sodar streambank wheatgrass	Elymus cinereus Agropyron riparium 'Sodar'	Cool Cool	Bunch Sod	165,000 170,000	2.5		Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000
	non name)	Season ^b Cool	(PLS	5)/acre[°]	(inches)		Jose tall wheatgrass Arriba western wheatgrass	Agropyron elongatum 'Jose' Agropyron smithii 'Arriba'	Cool	Bunch Sod	79,000 110,000	7.0		Prairie sandreed Sand dropseed	Calamovilfa longifolia Sporobolus cryptandrus	Warm Cool	Open sod Bunch	274,000 5,298,000
2. Spring	; wheat	Cool		5 - 35	1 - 2		Total					17.75		Vaughn sideoats grama	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000
3. Spring 4. Annua		Cool Cool	_	5 - 35) - 15	1 - 2		Fertile Loamy Soil Seed Mix Ephriam crested wheatgrass	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	2.0		Arriba western wheatgrass Total	Agropyron smithii 'Arriba'	Cool	Sod	110,000
5. Millet	ii Tyegrass	Warm		- 15	$\frac{1}{2} - \frac{3}{4}$		Dural hard fescue	Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0		Heavy Clay, Rocky Foothill Seed				
6. Sudan 7. Sorgh	-	Warm Warm		-10	$\frac{1}{2} - \frac{3}{4}$ $\frac{1}{2} - \frac{3}{4}$		Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0		Ephriam crested wheatgrass ^d	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000
8. Winte		Cool		0-35	1 - 2		Sodar streambank wheatgrass Arriba western wheatgrass	Agropyron riparium 'Sodar' Agropyron smithii 'Arriba'	Cool	Sod Sod	170,000 110,000	2.5		Oahe Intermediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000
9. Winte	•	Cool Cool		0–35 0–35	1 - 2 1 - 2		Total High Water Table Soil Seed Mix					15.5		Vaughn sideoats grama ^e	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000
11. Tritica		Cool		5-40	1 - 2		Meadow foxtail	Alopecurus pratensis	Cool	Sod	900,000	0.5		Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000
	l seeding of ann oduce enough de						Redtop Reed canarygrass	Agrostis alba Phalaris arundinacea	Warm Cool	Open sod Sod	5,000,000 68,000	0.25		Arriba western wheatgrass Total	Agropyron smithii 'Arriba'	Cool	Sod	110,000
	water erosion fo urbed or mowed			his assumes th	at the cove	r	Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0		doubled if seed is broadcast and	and rates are based on drill seeding I should be increased by 50 percent	t if the seedin	g is done using a	Brillion Drill o
	seeding may be an 3:1 or where						Pathfinder switchgrass	Panicum virgatum 'Pathfinder'	Warm	Sod	389,000	1.0		hydraulic seeding is used, hydra	draulic seeding may be substituted aulic mulching should be done as a			re steeper than
seeding is	used, hydraulic , when practical,	mulching sl	hould be ap	plied as a sepa	arate		Alkar tall wheatgrass	Agropyron elongatum 'Alkar'	Cool	Bunch	79,000	5.5		 ^b See Table TS/PS-3 for seeding d ^c If site is to be irrigated, the trans 	dates. sition turf seed rates should be dou	ibled.		
the mulch	•	1		C	1		Total Transition Turf Seed Mix ^e					10.75		e	be used on slopes steeper than 6H t ue grama for the 2.0 lbs PLS of Va		a grama	
	TS/PS-3 for see						Ruebens Canadian bluegrass Dural hard fescue	Poa compressa 'Ruebens' Festuca ovina 'duriuscula'	Cool Cool	Sod Bunch	2,500,000 565,000	0.5			ue graina foi the 2.0 los r LS of Va	augini sideoai	s grama.	
	ates should be do done using a Br				ed by 50		Citation perennial ryegrass	Lolium perenne 'Citation'	Cool	Sod	247,000	3.0						
percent ii	done using a Di		n by nyura	ine security.			Lincoln smooth brome Total	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0						
2	Urban Draina Urban Storm Dra					TS/PS-3		Urban Drainage and Flood C rban Storm Drainage Criteri				June 2012			Jrban Drainage and Flood C an Storm Drainage Criteria I			
						TS/PS-3 Chapter 14	U		ia Manual V	olume 3				Urba	an Storm Drainage Criteria M			
m	Urban Storm Dra	ainage Crite	ria Manual	Volume 3		Chapter 14	U1 <u>SC-6</u>	rban Storm Drainage Criteri	ia Manual V	olume 3		June 2012 on (IP)		Urba	an Storm Drainage Criteria I n (IP)	Manual Vo	lume 3	
m		ainage Crite	ria Manual	Volume 3	-	Chapter 14	Un SC-6 IP-3. Rock Sock Inlet Protect	rban Storm Drainage Criteri	ia Manual V	olume 3				Urba Inlet Protection Remove sediment accum BMP effectiveness, typic	an Storm Drainage Criteria M n (IP) nulation from the area upstre cally when it reaches no more	Manual Vo	nlet protection The storage ca	pacity of the
on Fable 14-12.	Urban Storm Dra Recommende Scientific	d Seed Miz	ria Manual x for all of Growth	Volume 3	Lbs PLS/	Chapter 14 Areas Lbs PLS/Acre	U1 <u>SC-6</u>	rban Storm Drainage Criteri ction for Sump/Area Inlet ction for Sump/Area Inlet	ia Manual V	olume 3				Urba Inlet Protection • Remove sediment accum BMP effectiveness, typic protection. For silt fence Remove sediment accum	an Storm Drainage Criteria M n (IP) nulation from the area upstre cally when it reaches no more e, remove sediment when it nulation from the area upstre	Manual Vo	nlet protection The storage ca ss to a depth of	pacity of the no more tha
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on Fable 14-12. Fable 14-12. For Name Friety) For the segress	Recommendee Scientific Name Festuca ovina Poa canbyi Elymus lanceolatus Pascopyrum smithii Chondrosum gracile Panicum virgatum Boutelou curtipendula Lolium multiflorum multiflorum Faillardia aristata Ratibida columnaris Petalostemum purpurea Liatris punctata Linum lewisii Penstemon strictus Achillea millefolium	d Seed Mix Growth Season Cool Cool Cool Cool Cool Warm Warm Warm Warm Cool 	ria Manual ria Manual ria Manual ria Manual ria for all of recommende recomme	Volume 3 Cher Soils in Seeds/Lb 680,000 926,000 154,000 110,000 825,000 389,000 191,000 227,000 TOTAL 132,000 1,230,000 293,000 592,000 2,770,000 TOTAL Hed wildflower wers are desin mough 14-12.	Lbs PLS/ Acre Drilled 0.6 0.5 5.7 7.9 1.1 1.0 2.0 10.0 28.8 0.25 0.20 0.3 1.14	Lbs PLS/Acre Broadcast or Hydroseeded 1.2 1.0 11.4 15.8 2.2 2.0 4.0 20.0 57.6 0.50 0.40 0.12 0.40 0.12 0.40 1.4	SC-6 IP-3. Rock Sock Inlet Protect IP-4. Silt Fence Inlet Protect IP-5. Over-excavation Inlet IP-6. Straw Bale Inlet Protect IP-6. Straw Bale Inlet Protect Propriety inlet protection dev More information is provide Inlets Located in a Sump When applying inlet protects than the top of the curb open localized flooding, If the inl becomes clogged with sedim localized flooding, public sa Area inlets located in a sump rock socks (on paved surface stacked around the area inlet products providing equivaler Inlets Located on a Slope For curb and gutter inlets on in conjunction with curb soc also see the Check Dam Face Maintenance and I Inspect inlet protection frequ Inspect for tears that can of the BMP (e.g., gravel) Check for improper instat the inlet or bypassing to properly trenched around Larger storm events that the	ction for Sump/Area Inlet ction for Sump/Area Inlet ction for Sump/Area Inlet Protection ction for Sump/Area Inlet ion vices should be installed in ed below on selecting inlet p p ion in sump conditions, it is For curb inlets, the maximu- ing to allow overflow into the fety issues, and downstrean p setting can be protected th es), sediment control logs/st t (on pervious surfaces), over nt functions. e t paved sloping streets, block isks in the gutter leading to the t Sheet. Removal uently. Inspection and main in result in sediment directly i) washing into the inlet. allation resulting in untreated an unprotected downstream d the inlet can result in flow Ps that are no longer protect wash away or reposition the	accordance of protection for a important the um height of the inlet durit ter than the c ne inlet and m in erosion and prough the us traw wattles er-excavation k and rock so he inlet. For intenance guid entering the ed flows byp in inlet. For ev so under the island	with manuface a sump and or mat the inlet c the protective may bypass it d damage from the of silt fence embedded in a around the in- ock inlet protective inlets located dance include inlet, as well assing the BM example, silt silt fence and Displaceme	rotection cturer specifi n-grade locar ontinue to fu re barrier sho rms without , possibly ca m bypassed e, concrete b the adjacent inlet, and pro- rection is rec d along unpa es: as result in MP and direct fence that has d directly into	on (IP) ications. tions. unction buld be lower excessive y if the filter using flows. block and t soil and oprietary wommended aved roads, the contents ctly entering as not been o the inlet. ur following		Urba Inlet Protection Remove sediment accum BMP effectiveness, typic protection. For silt fence Remove sediment accum the functionality of the E Propriety inlet protection manufacturer specification in a timely manner to pro-	an Storm Drainage Criteria M n (IP) nulation from the area upstre cally when it reaches no more e, remove sediment when it nulation from the area upstre 3MP. n devices should be inspecte ons. If proprietary inlet insec event devices from breaking	eam of the re than half accumulate eam of the seam of	nlet protection The storage ca so to a depth of nlet protection tained in accord are used, sedin g sediment int	pacity of the no more tha as needed t dance with ent should to the storm of
Table 14-12.	Recommendee Scientific Name Festuca ovina Poa canbyi Elymus lanceolatus Pascopyrum smithii Chondrosum gracile Panicum virgatum Boutelou curtipendula Lolium multiflorum multiflorum Faillardia aristata Ratibida columnaris Petalostemum purpurea Liatris punctata Linum lewisii Penstemon strictus Achillea millefolium	d Seed Mix Growth Season Cool Cool Cool Cool Cool Warm Warm Warm Warm Cool 	ria Manual ria Manual ria Manual ria Manual ria for all of right of the form recommende recommend recommende recommende recommende r	Volume 3 Cher Soils in Seeds/Lb 680,000 926,000 154,000 110,000 825,000 389,000 191,000 227,000 TOTAL 132,000 1,230,000 293,000 592,000 2,770,000 TOTAL Hed wildflower wers are desin mough 14-12.	Lbs PLS/ Acre Drilled 0.6 0.5 5.7 7.9 1.1 1.0 2.0 10.0 28.8 0.25 0.20 0.3 1.14	Lbs PLS/Acre Broadcast or Hydroseeded 1.2 1.0 11.4 15.8 2.2 2.0 4.0 20.0 57.6 0.50 0.40 0.12 0.40 0.12 0.40 1.4	SC-6 IP-3. Rock Sock Inlet Protect IP-4. Silt Fence Inlet Protect IP-5. Over-excavation Inlet IP-6. Straw Bale Inlet Protect CIP-1. Culvert Inlet Protect Over information is provide Inlets Located in a Sump When applying inlet protection during larger runoff events. than the top of the curb open localized flooding. If the inl becomes clogged with sedim localized flooding, public sat Area inlets located in a sump rock socks (on paved surface stacked around the area inlet products providing equivalent Inlets Located on a Slope For curb and gutter inlets on in conjunction with curb soc also see the Check Dam Fact Maintenance and I Inspect inlet protection frequ Inspect for tears that can of the BMP (e.g., gravel) Check for improper instat the inlet or bypassing to properly trenched around Inspect de double around and the around Inspect inlet or bypassing to properly trenched around Inspect or tears that can	rban Storm Drainage Criteri ction for Sump/Area Inlet tion for Sump/Area Inlet Protection ction for Sump/Area Inlet ion vices should be installed in vices should be installed in d below on selecting inlet p p ion in sump conditions, it is For curb inlets, the maximu- ning to allow overflow into the let protection height is great nent, runoff will not enter the fety issues, and downstream p setting can be protected the tes), sediment control logs/st t (on pervious surfaces), over nt functions. e a paved sloping streets, block icks in the gutter leading to the t Sheet. Removal uently. Inspection and main in result in sediment directly b) washing into the inlet. allation resulting in untreated an unprotected downstream d the inlet can result in flow Ps that are no longer protect wash away or reposition the <i>IP</i> .	accordance v orotection for s important th um height of the inlet duri ter than the c ne inlet and n n erosion and rrough the us traw wattles er-excavation k and rock so he inlet. For ntenance guid entering the ed flows byp n inlet. For ev sunder the si ting the inlet.	with manuface r sump and or nat the inlet c the protective ing larger stor nurb elevation nay bypass it, d damage from se of silt fence embedded in n around the in- pock inlet prote- inlets located dance include inlet, as well assing the BN example, silt silt fence and Displaceme tion. Traffic	rotection cturer specifi n-grade locar ontinue to fu re barrier sho rms without , possibly ca m bypassed e, concrete b the adjacent inlet, and pro- rection is rec d along unpa es: as result in MP and direct fence that has d directly into	on (IP) ications. tions. unction buld be lower excessive y if the filter using flows. block and t soil and oprietary wommended aved roads, the contents ctly entering as not been o the inlet. ur following		Urba Inlet Protection Remove sediment accum BMP effectiveness, typic protection. For silt fence Remove sediment accum the functionality of the E Propriety inlet protection manufacturer specification in a timely manner to pro-	an Storm Drainage Criteria M n (IP) nulation from the area upstre cally when it reaches no more e, remove sediment when it nulation from the area upstre 3MP. n devices should be inspecte ons. If proprietary inlet insec event devices from breaking	eam of the re than half accumulate eam of the seam of	nlet protection The storage ca so to a depth of nlet protection tained in accord are used, sedin g sediment int	pacity of the no more tha as needed t dance with ent should to the storm of

				S/PS)	EC-2	EC-2 Ter	nporary and P	erman	ent See	eding ('	<u>(S/PS)</u>	Temporary an	id Permanent S	Seedin	g (15/P	5)
eding dates for the highes the spring from April thro						Table TS.	/PS-2. Minimum Drill Seed	ling Rates fo	or Perennial	Grasses		Table TS/PS-2	2. Minimum Drill Seeding	g Rates for I	Perennial Gra	isses (cont.)
ezes. If the area is irrigat propriate seeding dates.	ted, seeding may	occur in s	ummer months, as we	ell. See Table	e TS/PS-3 for	Common ^a Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre	Common Name Sandy Soil Seed Mix	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound
Table TS/PS-1. Min	nimum Drill See	eding Rate	s for Various Temp	orary Annua	al Grasses	Alakali Soil Seed Mix Alkali sacaton	Sporobolus airoides	Cool	Bunch	1,750,000	0.25	Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000
Specie	os ^a	Growth	Pounds of Pure Live Seed	Planting Depth		Basin wildrye Sodar streambank wheatgrass	Elymus cinereus Agropyron riparium 'Sodar'	Cool Cool	Bunch Sod	165,000 170,000	2.5	Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000
(Common		Season ^b	(PLS)/acre ^c	(inches)	_	Jose tall wheatgrass	Agropyron elongatum 'Jose'	Cool	Bunch	79,000	7.0	Prairie sandreed Sand dropseed	Calamovilfa longifolia	Warm	Open sod Bunch	274,000 5,298,000
1. Oats 2. Spring wh	heat	Cool Cool	35 - 50 25 - 35	1 - 2	_	Arriba western wheatgrass Total	Agropyron smithii 'Arriba'	Cool	Sod	110,000	17.75	Vaughn sideoats grama	Sporobolus cryptandrus Bouteloua curtipendula 'Vaughn'	Cool Warm	Sod	191,000
3. Spring bar	-	Cool	25 - 35	1 - 2		Fertile Loamy Soil Seed Mix Ephriam crested wheatgrass	Agropyron cristatum	Cool	Sod	175,000	2.0	Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000
4. Annual ry 5. Millet	vegrass	Cool Warm	10 - 15 3 - 15	¹ / ₂ ¹ / ₂ - ³ / ₄		Dural hard fescue	'Ephriam' Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0	Total Heavy Clay, Rocky Foothill See				
 6. Sudangras 7. Sorghum 	SS	Warm Warm	5–10 5–10	$\frac{1}{2} - \frac{3}{4}$ $\frac{1}{2} - \frac{3}{4}$		Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0	Ephriam crested wheatgrass ^d	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000
8. Winter wh	heat	Cool	20–35	1 - 2		Sodar streambank wheatgrass Arriba western wheatgrass	Agropyron riparium 'Sodar' Agropyron smithii 'Arriba'	Cool	Sod Sod	170,000 110,000	2.5 7.0	Oahe Intermediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000
9. Winter ba	5	Cool Cool	20–35 20–35	1 - 2	_	Total High Water Table Soil Seed M	ix				15.5	Vaughn sideoats grama ^e	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000
10. White Ty 11. Triticale		Cool	25-40	1 - 2		Meadow foxtail	Alopecurus pratensis	Cool	Sod	900,000	0.5	Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000
			ting in adequate plan lue to provide protect			Redtop Reed canarygrass	Agrostis alba Phalaris arundinacea	Warm Cool	Open sod Sod	5,000,000 68,000	0.25	Arriba western wheatgrass Total	Agropyron smithii 'Arriba'	Cool	Sod	110,000
	ter erosion for ar bed or mowed clo		year. This assumes inches.	that the cover	r	Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0	doubled if seed is broadcast and	s and rates are based on drill seedin d should be increased by 50 perce vdraulic seeding may be substituted	nt if the seedin	g is done using a	Brillion Drill o
			r drilling only where ons exist. When hyd			Pathfinder switchgrass	Panicum virgatum 'Pathfinder'	Warm	Sod	389,000	1.0		raulic mulching should be done as			are steeper that
seeding is use	ed, hydraulic mu	ulching sho	uld be applied as a se seeds from being en	parate		Alkar tall wheatgrass	Agropyron elongatum 'Alkar'	Cool	Bunch	79,000	5.5		nsition turf seed rates should be do	oubled.		
the mulch.		-	C C			Total Transition Turf Seed Mix ^c					10.75		be used on slopes steeper than 6H blue grama for the 2.0 lbs PLS of V		s grama.	
			rigation, if consistent es during the summer			Ruebens Canadian bluegrass Dural hard fescue	Poa compressa 'Ruebens' Festuca ovina 'duriuscula'	Cool Cool	Sod Bunch	2,500,000 565,000	0.5				0	
			is broadcast, or incre by hydraulic seeding			Citation perennial ryegrass	Lolium perenne 'Citation' Bromus inermis leyss	Cool	Sod	247,000	3.0					
						Lincoln smooth brome Total	'Lincoln'	Cool	Sod	130,000	3.0					
	oan Storm Draina	age Criteria							olume 3			Ure	oan Storm Drainage Criteria	. Manual Vo	lume 3	
Urb			or all other Soils i	n Upland A	Chapter 14 reas		tection for Sump/Area Inlet			rotectio	on (IP)	Inlet Protectio • Remove sediment accur BMP effectiveness, typ	on (IP) mulation from the area upstr ically when it reaches no mo	ream of the i	inlet protection	pacity of the
Urb etation Table 14-12. Rea	ccommended S Scientific G	Seed Mix 1	or all other Soils i	Lbs PLS/ Acre	reas Lbs PLS/Acre Broadcast or	IP-3. Rock Sock Inlet Prot IP-4. Silt Fence Inlet Prot IP-5. Over-excavation Inle	ection for Sump/Area Inlet et Protection			rotectio	on (IP)	Remove sediment accur BMP effectiveness, typ protection. For silt fend Remove sediment accur the functionality of the	on (IP) mulation from the area upstr ically when it reaches no model ce, remove sediment when it mulation from the area upstr BMP.	ream of the i ore than half t accumulate ream of the i	inlet protection the storage cass to a depth o inlet protection	pacity of the f no more the n as needed t
Urb etation Table 14-12. Rec ommon Name (Variety) p fescue Fes	ecommended S Scientific S Name S estuca ovina	Seed Mix 1 Growth Season Cool	For all other Soils i Growth Form Bunch 680,000	Lbs PLS/ Acre Drilled	reas Lbs PLS/Acre Broadcast or Hydroseeded 1.2	IP-3. Rock Sock Inlet Prot IP-4. Silt Fence Inlet Prot IP-5. Over-excavation Inle	ection for Sump/Area Inlet et Protection tection for Sump/Area Inlet			rotectio	on (IP)	 Remove sediment accur BMP effectiveness, typ protection. For silt fenc Remove sediment accur the functionality of the Propriety inlet protection manufacturer specificat 	on (IP) mulation from the area upstrictly when it reaches no mode, remove sediment when it mulation from the area upstriber. BMP.	ream of the i ore than half t accumulate ream of the i sed and main sert devices a	inlet protection the storage ca so to a depth of inlet protection tained in acco are used, sedir	pacity of the f no more the n as needed to rdance with nent should
tation Table 14-12. Ree mmon Name (Variety) fescue Fea bluegrass Poo spike wheatgrass Ely	ecommended S Scientific S Name S Estuca ovina Da canbyi Symus	Seed Mix f Growth G Season Cool Cool	for all other Soils i Growth Form Seeds/Lb	Lbs PLS/ Acre	reas Lbs PLS/Acre Broadcast or Hydroseeded	IP-3. Rock Sock Inlet Prot IP-4. Silt Fence Inlet Prot IP-5. Over-excavation Inlet IP-6. Straw Bale Inlet Pro CIP-1. Culvert Inlet Protec	ection for Sump/Area Inlet et Protection tection for Sump/Area Inlet]	Inlet Pi			 Remove sediment accur BMP effectiveness, typ protection. For silt fend Remove sediment accur the functionality of the Propriety inlet protection manufacturer specificat in a timely manner to protection 	on (IP) mulation from the area upstrically when it reaches no mode, remove sediment when it mulation from the area upstribation from the area upstribation. If proprietary inlet instructions. If proprietary inlet instructions from breaking the second se	ream of the i ore than half t accumulate ream of the i set and main sert devices i g and spillin	inlet protection the storage car to a depth or inlet protection tained in acco are used, sedir g sediment in	pacity of th f no more th n as needed rdance with nent should to the storm
ation Table 14-12. Rea	ecommended S Scientific G Name S estuca ovina pa canbyi ymus nceolatus uscopyrum	Seed Mix f Growth Cool Cool	Form Seeds/Lb Bunch 680,000 Bunch 926,000	Lbs PLS/ Acre Drilled 0.6	reas Lbs PLS/Acre Broadcast or Hydroseeded 1.2 1.0	IP-3. Rock Sock Inlet Prot IP-4. Silt Fence Inlet Prot IP-5. Over-excavation Inle IP-6. Straw Bale Inlet Pro CIP-1. Culvert Inlet Prote Propriety inlet protection d	ection for Sump/Area Inlet et Protection tection for Sump/Area Inlet ction	accordance	Inlet P	cturer specific	rations.	 Remove sediment accur BMP effectiveness, typ protection. For silt fenc Remove sediment accur the functionality of the Propriety inlet protection manufacturer specificat 	on (IP) mulation from the area upstrically when it reaches no mode, remove sediment when it mulation from the area upstribation from the area upstribation. If proprietary inlet instructions. If proprietary inlet instructions from breaking the second se	ream of the i ore than half t accumulate ream of the i set and main sert devices i g and spillin	inlet protection the storage car to a depth or inlet protection tained in acco are used, sedir g sediment in	pacity of the f no more the n as needed to rdance with nent should to the storm
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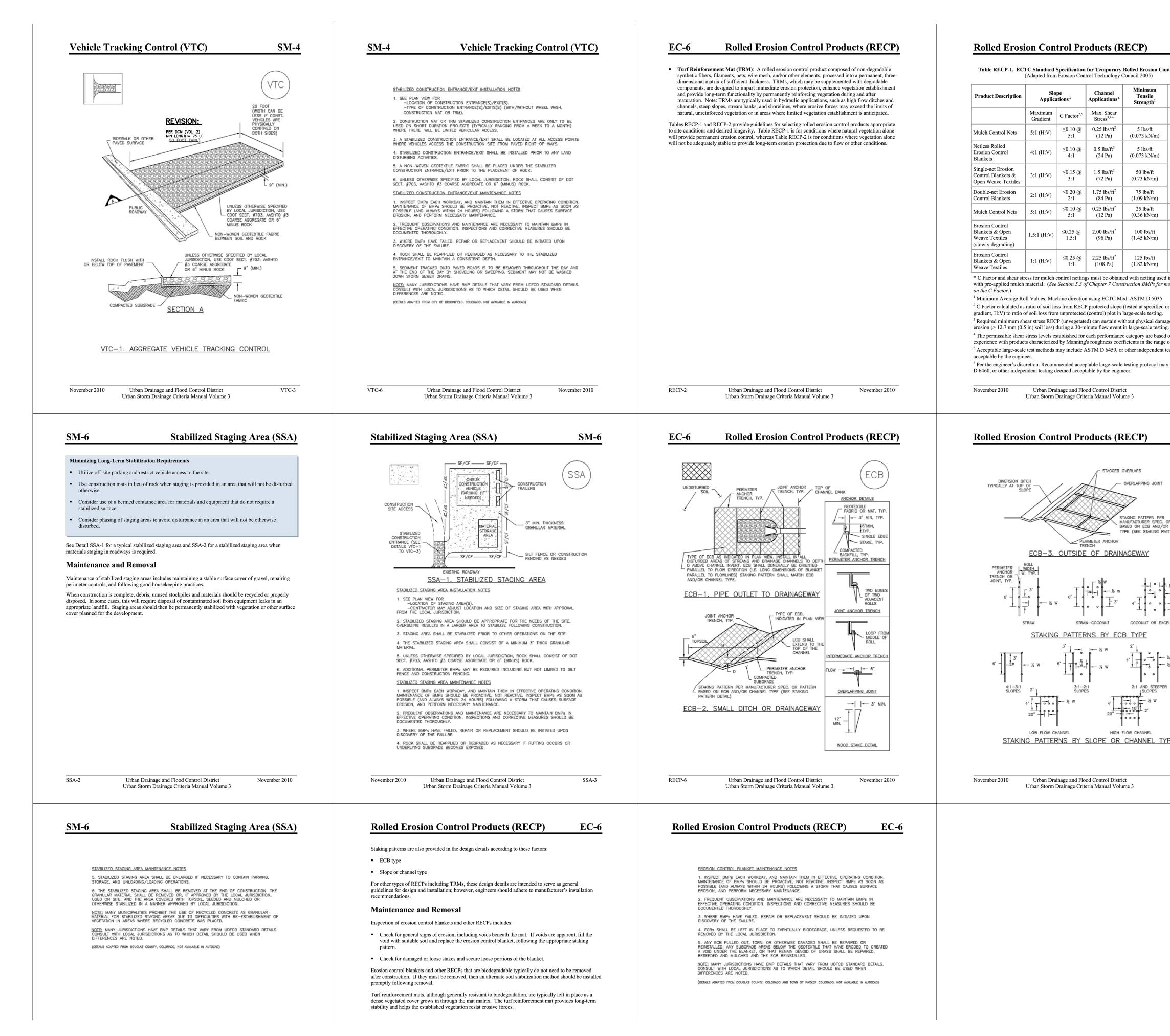


48 HRS BEFORE YOU DIG CALL 1-800-922-1987

CAUTION



<u>P)</u>	Inlet Protection (IP)	<u>SC-6</u> <u>SC-6</u>	Inlet Protection (IP)		FILING N OL PLA
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3	(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVALABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DE CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED. August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	IP-7 IP-8	Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3		20 BOULDER COLORADO PHONE: 719.5
<u>)</u>	EC-4 Mulching	<u>s (MU)</u> <u>SC-3</u>	Straw Bale Barrier (SBB)	Straw Bale Barrier (SBB) SC-3	
	 Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons; must be tacked or fastened by a method suitable for the condition of the site. Straw mulch mu anchored (and not merely placed) on the surface. This can be accomplished mechanically by 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 tuck mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, wi ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the 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 plar seed, mulching with hay may seed the site with non-native grass species which might in turn ot the native scel. Alternatively, native species of grass hay may be purchased, but can be diffic and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an less costly mulching method. When using grass hay, follow the same guidelines as for straw (above). On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is for holding it in place. For steep slopes and special situations where greater control is needed, 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 be applied inmediately prior to inclement weather. Application to roads, waterways and existing should be avoided. Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (genera steeper) and waterways. Depending on the product, these may be used alone or in conjunction or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of stra	st be primping or e ing the long ille not an e frame may t including ut-compete ult to find easier and provided satisfactory erosion and should st 75 lbs of puired for uld not be y vegetation Hy 3:1 and a with grass used instead allowed nder BMP sion and for e full		 STRAW BALE INSTALLATION NOTES 1. SEE PLAN YEW YOR: 1. CLCATION(S) OF STRAW BALES. 2. STRAW BALES SHALL CONSIST OF CERTINED WEDD FREE STRAW OR HAY, LOCAL LURISDICTIONS MAY REQUIRE PROPORT HAT BALES BEWEED FREE. 3. STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEDN NOT LESS THAN 35 POUNDS. 4. WHEN STRAW BALES ASH UED IN SERIES AS A BARRER, THE END OF EACH BALE SHALL BE THATLY ABUTING ORE ANOTHER THE SECONDATED TO A DEDTH OF 4* STRAW BALES ASHLES LESS INSLE DE ANOTHER THE END OF FACH BALE SHALL BE THATLY ABUTING ORE ANOTHER. 6. A UNERGAN ANOCHOT THENCH SHALL BE EXCONDED TO A DEDTH OF 4* STRAW BALES (S) AND COMPACTED. 7. THO (2) WOODEN STRAES SHALL BE LEADROMINATELY 36'LIB'XIB'. 7. THO (2) WOODEN STRAES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN AND COMPACTED. 7. THO (2) WOODEN STRAES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STRAES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STRAES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STRAES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STAKES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STAKES SHALL BE UED TO HOLD EACH BALE IN FLACE WOODEN. 7. THO (2) WOODEN STAKE BE FRACTIVE. NOT REACTIVE. INSERTION STONDING ANTINA THEM IN EFFECTIVE OPERATING CONDITION. MAINTENNENCE OF REPARTING CONDITION. MASS POSSIBLE (AND ANNES AND MANETONICCE ARE NOCESSARY TO MAINTAGE SHALL BE SHALL BE UED TO MAINTAGE SHALL BE WEDD SHALL BE MARKER. 9. STRAW BALES SHALE BE REPLACED IF THEY BECOME HEANLY SOLLD. ROTTEN, OR DOODAN. 9. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEANLY SOLLD. ROTTEN, OR DOODAN. 9. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEANLY SOLLD. BE ANOTHED AS AND A BEFORD THAN. 9. STRAW BALES ARE RENDADE, ALL DUSTURED AREAR SHALL BE REPREME. 9. STRAW BA	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160 DATE: FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
	MU-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	June 2012 SBB-2	Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	November 2010 Urban Drainage and Flood Control District SBB-3 Urban Storm Drainage Criteria Manual Volume 3	APRV'D. BY:
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	EC-6	EC-6 Rolled	Erosion Coi	ntrol Product	s (RECP)		FILING NO.	DETAILS	⁹ FGR06
	ntrol Products							SOL	3–1 F 6
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		¹ For TRMs containing degradable com			kN/m)		AT	স্থ	
	24 months	degradable portion of the matting alone. ² Minimum Average Roll Values, maching	ine direction only for te				AD	5 V C	00-6(00 01 SAV
	24 months	3 Field conditions with high loading and with a tensile strength of 44 kN/m (3,00	l/or high survivability r 00 lb/ft) or greater.				STE	D	BY: BY: NO.
Trippediate Fragmention Fragmention array The State Mandata Mandata Structure of the State State and applicities. Reparked with the State Sta	26 months	erosion (> 12.7 mm (0.5 in.) soil loss) d ⁵ Acceptable large-scale testing protocol	uring a 30-minute flow	event in large scale testin	ng.		ME	GR	DJECT SIGNED AWN B ECKED
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	on historical			only used ECB application	ons, including:		RFSCF	SPRING 55.5485	
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48 HRS BEFORE YOU DIG CALL 1-800-922-1987

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Markup Summary

Steve Kuehster	· (28)	
Cursory comment only pending comments on the drainage report. 3RADING	Subject: text box Page Label: 2 Author: Steve Kuehster Date: 4/10/2019 12:31:48 PM Color:	Cursory comment only pending comments on the drainage report.
■ The set of the s	Subject: text box Page Label: 2 Author: Steve Kuehster Date: 4/10/2019 9:37:38 AM Color:	It is not clear reviewing both the GEC & SWMP as to how Sand Creek and the associated wetlands will be protected from sediment during construction. There needs to be several temporary sediment traps and a plan to utilize Interim Pond 1 prior to finalizing it. The goal is to not let sediment laden stormwater up to the 2 yr volume from exiting the site (it all flows directly into Sand Creek, the County's MS4 channel).
	Subject: text box Page Label: 1 Author: Steve Kuehster Date: 4/9/2019 10:12:06 AM Color:	Update to current FIRM Panel Dec. 7, 2018.
	Page Label: 1 Author: Steve Kuehster	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 Directors discretion.
CODE, DRAII		
_D PRIOR FY DSD	Subject: Pen Page Label: 1 Author: Steve Kuehster Date: 4/9/2019 10:18:55 AM Color:	
Security Update to current notes and Flacing and Community Security Common PCD N 31 Mildit 5 ARE	Subject: text box Page Label: 1 Author: Steve Kuehster Date: 4/9/2019 10:19:48 AM Color:	Update to current notes Planing and Community Development PCD
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Identify the report name and date.



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Note drainage report comment. this area needs to be routed to a SWQ facility.



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Spectrum Detention Pond.

Revise to be a forebay per criteria for a Full

Call out trickle channel.

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Call out pipe size.



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Details sheet ?



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ACOMICNAL NOTES: DRIVE AND IS DESTINATE & CONTRACTOR IN THE FIELD. THE LOCATION SHALL BE DELIGITED ON THIS PLAN OF THE CONTRACTOR. HE ERCSION CONTROL DELINE

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See comment in drainage report these areas will need SWQ

See comment in drainage report these areas will need SWQ

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Provide sediment trap for this disturbed area before discharge into the wetlands.

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Temporary sediment trap locations will be determined by the contractor in the field.

RD 15

SF-19-004

FEBRUARY 2019

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SF-19-004

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