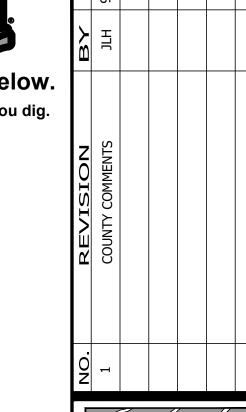
GRADING AND EROSION CONTROL PLAN 208 CUNNINGHAM DRIVE

LOCATED IN LOT 4, BLOCK 5, 1 REFILL SECURITY, COLORADO ADDITION 4 WITHIN A PORTION OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH P.M., COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO LOCATED AT: 208 CUNNINGHAM DR, COLORADO SPRINGS, CO 80911







ENGINEERS-SURVEYORS, INC 35 WEST 13TH AVENUE, SUITE 310 DENVER, COLORADO 80204 PHONE: 303-753-6730

ш.

SALVATION ARMY
INGHAM DRIVE
SPRINGS, CO 80911
EY SALVATION ARMY

FOUNTAIN VALLEY
ADDRESS: 208 CUNN

GRADING AND EROSION CONTROL PLAN

OB NO. FV21181

ORG. SUBM. DATE 12/22/2023

DWN: JMP CHKD: DV

NAME

COVER SHEET

°C1.0

PCD FILE NO. CDR242

PROJECT	CUNNINGHAM DRIVE LETA DRIVE	The one
	BIRCH DRIVE	
	VICINITY MAP SCALE 1" = 500'	

Sheet List Table				
Sheet Number	Sheet Title			
C1.0	COVER SHEET			
C1.1	GENERAL NOTES			
C2.0	INITIAL GRADING & EROSION CONTROL PLAN			
C3.0	FINAL GRADING & EROSION CONTROL PLAN			
C4.0	GEC DETAILS			

CONTACT LIST					
OWNER	CIVIL ENGINEER	SURVEYOR			
FOUNTAIN VALLEY SALVATION ARMY CORPS	R&R ENGINEERS-SURVEYORS, LLC	R&R ENGINEERS-SURVEYORS, LLC			
208 CUNNINGHAM DRIVE	1635 WEST 13TH AVENUE, SUITE 310	1635 WEST 13TH AVENUE, SUITE 310			
COLORADO SPRINGS, CO 80911	DENVER, CO 80204	DENVER, CO 80204			
(719) 382-1182	(303) 753-6730	(720) 381-2439			
QUIANA.VARGAS@USW.SALVATIONARMY. ORG	TSTACKHOUSE@RRENGINEERS.COM	KKUCHARCZYK@RRENGINEERS.COM			
CONTACT: QUIANA VARGAS	CONTACT: TIM STACKHOUSE, P.E.	CONTACT: KEVIN KUCHARCZYK			

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF LOT 6, BLOCK 1 OF REFILING OF SECURITY, COLORADO ADDITION NO. 4 AS MONUMENTED AT THE WEST END BY A FOUND 3/4" BAR AND AT THE EAST END BY A NO. 4 REBAR. SAID LINE IS ASSUMED TO BEAR N89'10'20"E.

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS A NO. 4 REBAR LOCATED ALONG THE EASTERN BOUNDARY OF THE SUBJECT PARCEL (SEE SHEET 2). THE ELEVATION WAS DERIVED FROM GPS OBSERVATIONS USING AN OPUS DERIVED SOLUTION. ELEVATION: 5801.58 FEET (NAVD 1988 DATUM)

LEGAL DESCRIPTION PER TITLE COMMITMEN

LOTS 4 AND 5, BLOCK 1, REFILING OF SECURITY, COLORADO ADDITION NO. 4, COUNTY OF EL PASO, STATE OF COLORADO.

LOT 6, BLOCK 1, REFILING OF SECURITY, COLORADO ADDITION NO. 4, COUNTY OF EL PASO, STATE OF COLORADO

Engineer's Stelement for standalone GRC Plans
This Creating and Stocken Costod Plans was proposed under my direction and approvide and approvide correct for the best for my knowledge and best Salat Plans has been proposed according to the prices established by the County for Grading and Enterior Costod Plans. I accept respectively for any southly governors year required and Enterior Costod Plans.

Engineer of Stock Signature

Dear

De

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legible version.

Please re-submit with a

EL PASO COUNTY GRADING & EROSION CONTROL STANDARD NOTES:

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED. AND APPROVED. IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (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
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE 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
- 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. UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE. BUT SHAI 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
- 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 ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME 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 NRCS, 8/21/2021 AND SHALL BE CONSIDERED A PART OF
- 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 CONTACT:

THESE PLANS.

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

GRADING AND EROSION CONTROL PLAN 208 CUNNINGHAM DRIVE

LOCATED IN LOT 4, BLOCK 5, 1 REFILL SECURITY, COLORADO ADDITION 4 WITHIN A PORTION OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH P.M., COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO LOCATED AT: 208 CUNNINGHAM DR, COLORADO SPRINGS, CO 80911



Call before you dig.

MASTER LEGEND

	DESCRIPTION	PROPOSED
	PROPERTY LINE	
	LOT LINE	
· · · · · · · · · · · · · · · · · · ·	RIGHT OF WAY	
	CENTERLINE	
· · ·	FLOOD PLAIN	
	LIMITS OF DISTURBANCE	LOD
	SWALE / STREAM FLOWLINE	
	OVERFLOW RELIEF PATH	~ ►
x	FENCE LINE	x
	EASEMENT	
	EDGE OF PAVEMENT	
=======		
	VERTICAL CURB AND GUTTER	
	MOUNTABLE CURB AND GUTTER	
	SPILL GUTTER	
	TRANSITION GUTTER	
	CONCRETE SIDEWALK	
	HANDICAP PARKING	
	SIGHT TRIANGLE	
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·	GRADE BREAK	
$52\frac{22}{FG}$ $5236\frac{22}{FG}$	SPOT ELEVATION	$52\frac{22}{\text{FG}}$ $5236\frac{22}{\text{FG}}$
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$\overline{}$	STORM SEWER PIPE	
	STORM SEWER MANHOLE	
	STORM SEWER INLET	
	STORM SEWER FLARED END SECTION	
	STORM SEWER HEADWALL	
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ф	STREET LIGHT	\$
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т	TELECOM SERVICE	— т —
FO —	FIBER OPTIC SERVICE	FO
G	NATURAL GAS SERVICE	G
	-	-

	(CD)	ROCK CHECK DAM
	(CB)	COMPOST BLANKET
	CFB	COMPOST FILTER BERM
	CWA	CONCRETE WASHOUT AREA
	CF	CONSTRUCTION FENCE
0 0	CM	CONSTRUCTION MARKERS
	DW	DEWATERING
	(DD)	DIVERSION DITCH
		ROCK AND RIPRAP GRADATIONS
	(ECB)	EROSION CONTROL BLANKET
		INLET PROTECTION
	RCD	REINFORCED CHECK DAM
	RRB	REINFORCED ROCK BERM
	RRC	RRB FOR CULVERT PROTECTION
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG
\$ 100 A	ST	SEDIMENT TRAP
• • •	SM	SEEDING AND MULCHING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
₩	SR	SURFACE ROUGHENING
AUMUMUMUMUMU	TRC	TEMPORARY ROAD CROSSING
<u> </u>	TSD	TEMPORARY SLOPE DRAIN
800000	TSC	TEMPORARY STREAM CROSSING
	TER	TERRACING
	(VTC)	VEHICLE TRACKING CONTROL
CSSTON	ww	VTC WITH WHEEL WASH
	\widetilde{A}	A LOT EROSION CONTROL
	B	B LOT EROSION CONTROL
_		
	LOC	LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE
•—		PROP. STORMWATER FLOW ARROV
-		EX. STORMWATER FLOW ARROWS
		PROP. CUT/FILL BOUNDARY
	(SP)	PROP. STOCKPILE PROTECTION

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

1.ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2.CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3.CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING: A.EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

B.CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 C.COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION D.CDOT M & S STANDARDS

4.NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5.IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6.CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) – INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7.IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST

8.CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9.ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10.CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

11.ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

12.SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

13.SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]

14.CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE

PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

PROPERTY OWNER'S.

RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS. 15.THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REOUIRED, FROM ADJOINING

16.EL PASO COUNTY DOES NOT OWN AND IS NOT RESPONSIBLE FOR THE UNDERDRAINS OR GROUNDWATER DISCHARGE SYSTEMS SHOWN ON THESE PLANS AND ASSUMES NO LIABILITY FOR WATER RIGHTS ADMINISTRATION BY APPROVING THESE PLANS. MAINTENANCE AND WATER RIGHTS ARE THE RESPONSIBILITY OF THE DEVELOPER AND

ORS > -SURVE ENGINEER

WWW.RRENGINEERS.COM

R&R

GRADING AND EROSION CONTROL PLA ORG. SUBM. DATE 12/22/2023 JMP CHKD:

GENERAL NOTES

GRADING AND EROSION CONTROL PLAN 208 CUNNINGHAM DRIVE

LOCATED IN LOT 4, BLOCK 5, 1 REFILL SECURITY, COLORADO ADDITION 4 WITHIN A PORTION OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH P.M., COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO LOCATED AT: 208 CUNNINGHAM DR, COLORADO SPRINGS, CO 80911

INITIAL SF

LOC

MAX HEIGHT=12'

EXCEED 3:1

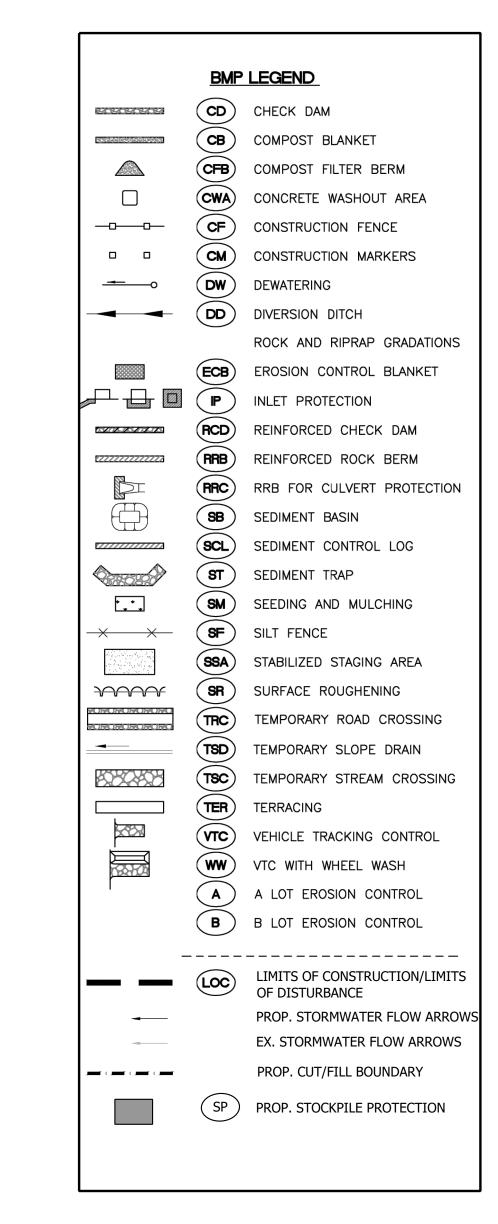
SIDE SLOPES SHALL NOT

-EXISTING GRAVEL LOT TO BE-

PROPOSED LIMITS OF— CONSTRUCTION: 0.87 ACRES

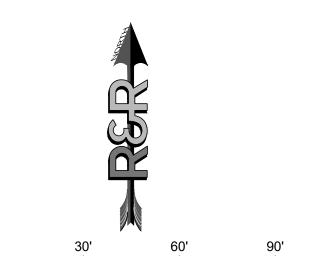






GEC CHECKLIST NOTES:

- 1. EXISTING VEGETATION CONSISTS OF SPARSE NATIVE GRASS
- 2. MINIMAL TREES AND SHRUBS EXIST ONSITE AND ARE NOT TO BE DISTURBED 3. AREAS OF CUT/FILL: THE LIMITS OF THE INFILTRATION POND IS NOTED ON THE PLAN SHEET



-SURVEYORS, ENGINEERS WWW.RRENGINEERS.COM

GRADING AND EROSION CONTROL PLAN

ORG. SUBM. DATE 12/22/2023 JMP CHKD:

INITIAL GRADING & EROSION **CONTROL PLAN**

OB NO. FV21181

PCD FILE NO. CDR242

ENGINEERS SURVEYORS

GRADING AND EROSION CONTROL PLAN SOIL MATRIX AMENDMENT CONTRACTOR REQUIRED TO REMOVE 2 FT OF NATIVE SOIL FROM 208 CUNNINGHAM DRIVE THE LIMITS OF THE POND AND REPLACE WITH WELL GRADED GRAVELY SANDS. CONTRACTOR REQUIRED TO PROVIDE A GRADATION OR SIEVE ANALYSIS AND PERMEABILITY RATES OF LOCATED IN LOT 4, BLOCK 5, 1 REFILL SECURITY, COLORADO ADDITION 4 WITHIN A PORTION OF IMPORT SAND TO EOR FOR APPROVAL PRIOR TO PLACEMENT OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH P.M., COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO POROUS LANDSCAPE DETENTION SHOULD NOT BE INSTALLED LOCATED AT: 208 CUNNINGHAM DR, COLORADO SPRINGS, CO 80911 UNTIL FINAL STABILIZATION OF THE SITE. **BMP LEGEND** NAME OF THE PROPERTY OF THE PR (CD) CHECK DAM HOMOMOMOM COMPOST BLANKET 24" MINIMUM UNLESS COMPOST FILTER BERM OTHERWISE SPECIFIED CONCRETE WASHOUT AREA (CF) CONSTRUCTION FENCE ____ (CM) CONSTRUCTION MARKERS LOT 6 OWNERSHIP: SALVATION ARMY (DW) ____ DEWATERING CUNNINGHAM DRIVE (DD) DIVERSION DITCH 6511101022 IMPORT CLEAN SANDS (CONTRACTOR TO PROVIDE SIEVE BLK 1ROCK AND RIPRAP GRADATIONS ANALYSIS AND PERMEABILITY TESTING TO EOR PRIOR TO REFIL SECURITY SCARIFY SUBGRADE MIN. DEPTH OF 6". PROVIDE LIMITED PLACEMENT ADD 4 COMPACTION (ECB) EROSION CONTROL BLANKET INLET PROTECTION BIORETENTION CROSS Provide a detail and/or more callouts for this (RCD) REINFORCED CHECK DAM SECTION swale. For example: N.T.S. (RRB) REINFORCED ROCK BERM what are the desired INITIAL SF minimum side slopes of RRB FOR CULVERT PROTECTION SECURITY, COLORADO the swale? Is it to be grass lined, riprap, or SEDIMENT BASIN concrete? TABLE BR-3. BIORETENTION MEDIA PROPERTIES (SCL) SEDIMENT CONTROL LOG **BIORETENTION MEDIA PROPERTIES (ST)** SEDIMENT TRAP Particle Size Distribution: APN: 6511126008 (SM) SEEDING AND MULCHING 70-80% Sand (0.05-2.0 mm diameter) 'IDEFIELD SCHOOL DISTRICT NO. 3 5-25% Silt (0.002-0.05 mm diameter) -CONSTRUCT 127 LF OF 6" (MIN.) (SF) NOT A PART **ASTM D7928** 5-15% Clay (<0.002 mm diameter) STABILIZED STAGING AREA Sedimentation Texture/Gradation (Hydrometer) Sand, silt and clay percentages are by dry weight. \longrightarrow SURFACE ROUGHENING Method Particle sizes are based on the USDA soil classification system. 40740740740740 TEMPORARY ROAD CROSSING Distribution is measured after gravel > 2 mm is removed from sample. Media should have F0F0F0F0F0F0 (TSD) TEMPORARY SLOPE DRAIN Equivalent sieve sizes for the upper and lower limit of sand are #10 and #240, TEMPORARY STREAM CROSSING Organic Matter ASTM D2974 1-5% by dry weight PROPOSED LIMITS OF-ASA/AASHTO 6.0 - 8.5 CONSTRUCTION: 0.40 ACRES (VTC) VEHICLE TRACKING CONTROL Salinity/Salts (EC) dS/m or Saturated Paste <3 (LOC) VTC WITH WHEEL WASH 0.40 ACRES A LOT EROSION CONTROL ASA2 33-3 <30 Nitrate Nitrogen (ppm) B LOT EROSION CONTROL Olsen: <20 or Use Olsen when pH>6.2, otherwise Mehlich-3: <30 Phosphorus (ppm) ______ use Mehlich-3 LIMITS OF CONSTRUCTION/LIMITS INITIAL INTERIM REMOVE PROP. STORMWATER FLOW ARROWS TABLE BR-4. NATIVE SEED MIX FOR BIORETENTION EX. STORMWATER FLOW ARROWS PURE LIVE SEED (PLS) SCIENTIFIC NAME COMMON NAME VARIETY PROP. CUT/FILL BOUNDARY POUNDS/ACRE OUNCES/ACRE Andropogon hallii 3.5 Sand bluestem Garden PROP. STOCKPILE PROTECTION Sideoats grama Bouteloua curtipendula Butte INITIAL INTERIM Prairie sandreed Calamovilfa longifolia Goshen MAX HEIGHT=12' -Paloma Oryzopsis hymenoides Indian ricegrass SIDE SLOPES SHALL NOT 5789 POND A FULL INFILTRATION BIORETENTION BASIN Switchgrass Panicum virgatum Blackwell EXCEED 3:1 APN: 6511100002 Western wheatgrass Pascopyrum smithii Ariba OWNER: WIDEFIELD SCHOOL APN: 6511101017 Schizachyrium scoparium Patura Little bluestem DISTRICT NO. 3 WQ & 100 YR RUNOFF VOLUME = 0.143 AC-FT OWNER: ARRAND, DAVID L REC. NO. 113703 WQ & 100 YR WSE = 5789.90 FT REC. NO. 2220559 Alkali sacaton Sporobolus airoides NOT A PART NOT A PART JPOSED MAINTENANCE-Sand dropseed Sporobolus cryptandrus **EASEMENT** Artemisia frigida Pasture sage¹ PROPOSED LIMITS OF-Aster laevis Blue aster FULL INFILTRATION BIORETENTION BASIN Blanket flower¹ Gaillardia aristata (LOC) Prairie coneflower¹ Ratibida columnifera Fix cutoff text REMOVE Purple Prairie Clover | Dalea (Petalostemum) purpurea GRASS LINED EMERGENCY SPILLWAY-Sub-Totals: 27.5 22 REFER TO DETAIL, THIS SHEET. 28.9 Total pounds/acre PROPOSED FULL INFILTRATION ¹ Wildflower seed (optional) for a more diverse and natural look. BIORETENTION DRAINAGE BASIN WITH AMENDED SOIL MATRIX APN: 6511101019 BELOW POND BOTTOM. SEE N OWNER: COTTINGHAM, LENA M TOP OF SPILLWAY-APN: 6511101018 REC. NO. 2193197 HYDROSEED PER DETAIL THIS SHEET OWNER: GROFF, DAVID A This is the approximate location of the spillway. I know that there is no NOT A PART HYDROSEED PER DETAIL THIS SHEET REC. NO. 94117749 perfect outfall for this site/pond but maybe not pointed at the neighbors NOT A PART garage? I'm just speculating though because there is not any offsite INTERIOR OF contours shown on the plan above, so it's hard to know where the spillway flows will be conveyed. Just wanted to point this out for you to consider and/or for us to discuss if you'd like to call me. Thanks. FILTER FABRIC OR EQUAL SECTION: A-A - SIDE SLOPE 3:1 INTERIOR OF BASIN TOE OF SLOPE — OF BASIN'S OUTER BERM SCALE: 1" = 30' SPILLWAY CROSS SECTION

N.T.S.

Know what's below.
Call before you dig.

NO.

COUNTY COMMENTS

1

COUNTY COMMENTS

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A DRIVE S, CO 80911

208 CUNNINGHAM DRIVI COLORADO SPRINGS, CO 8 FOUNTAIN VALLEY SALVATION 208 CUNNINGHAM DR

SITE ADDRESS:

OUTUND NOISONA DI PREPARED FOR:

FORMANDO NOISONA DI PREPARED FOR:

FOR

PCD FILE NO. CDR242

GRADING AND EROSION CONTROL PLAN

OB NO. FV21181

DRG. SUBM. DATE 12/22/2023

DWN: JMP CHKD: DV

NAME

FINAL GRADING &

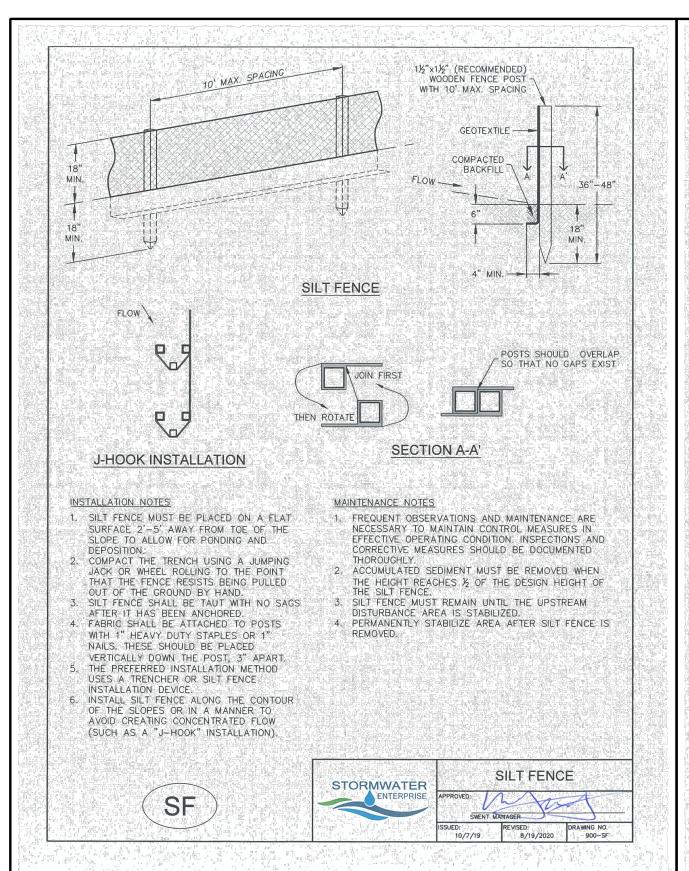
FINAL GRADING & EROSION CONTROL PLAN

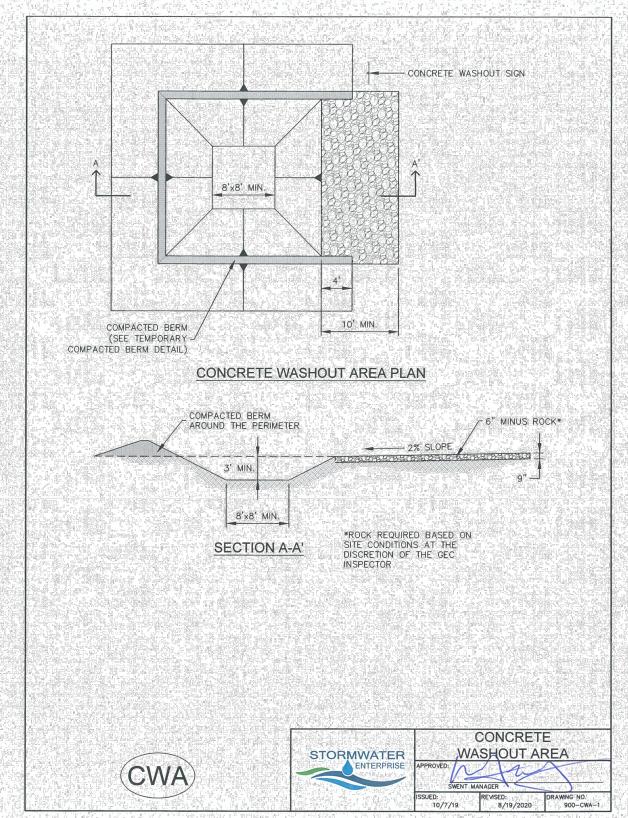
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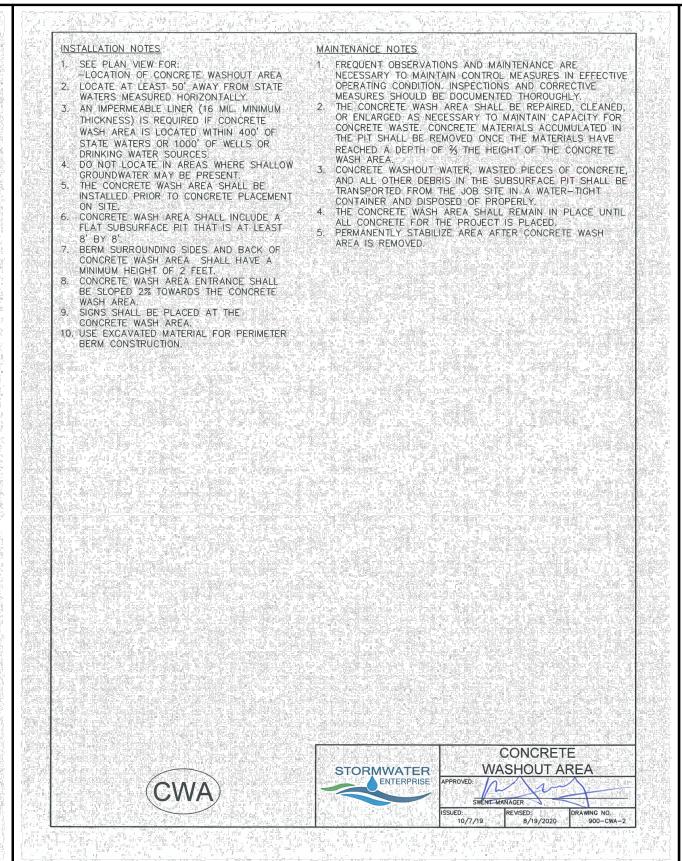
GRADING AND EROSION CONTROL PLAN 208 CUNNINGHAM DRIVE

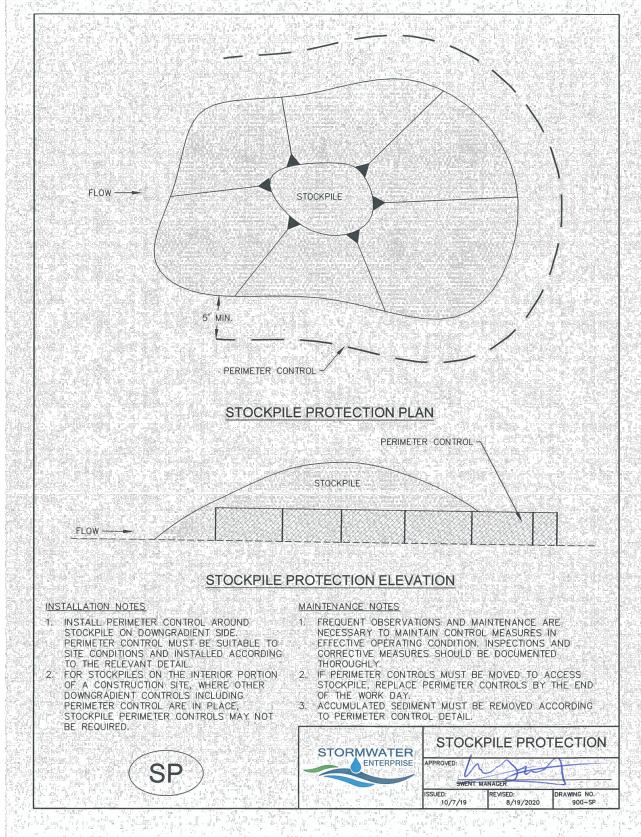
LOCATED IN LOT 4, BLOCK 5, 1 REFILL SECURITY, COLORADO ADDITION 4 WITHIN A PORTION OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH P.M., COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO LOCATED AT: 208 CUNNINGHAM DR, COLORADO SPRINGS, CO 80911

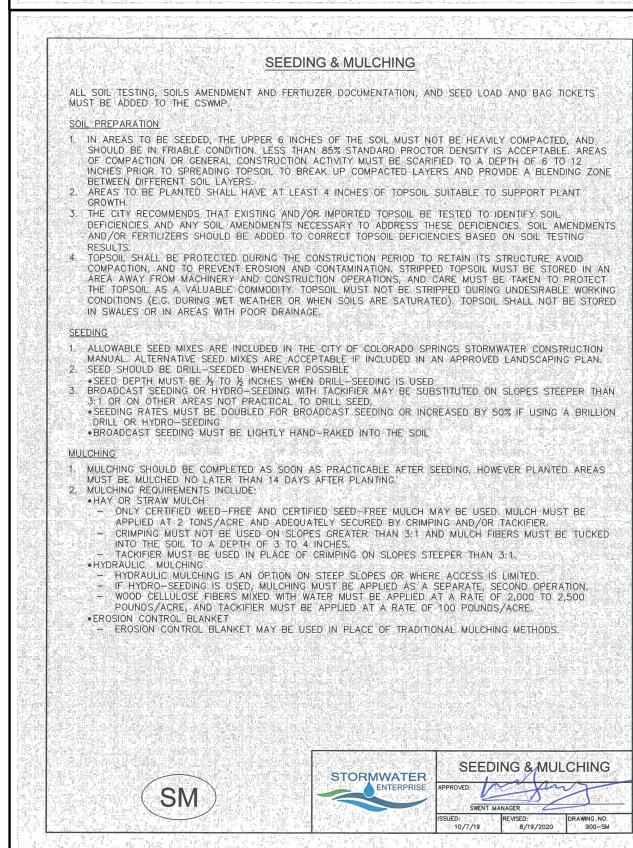


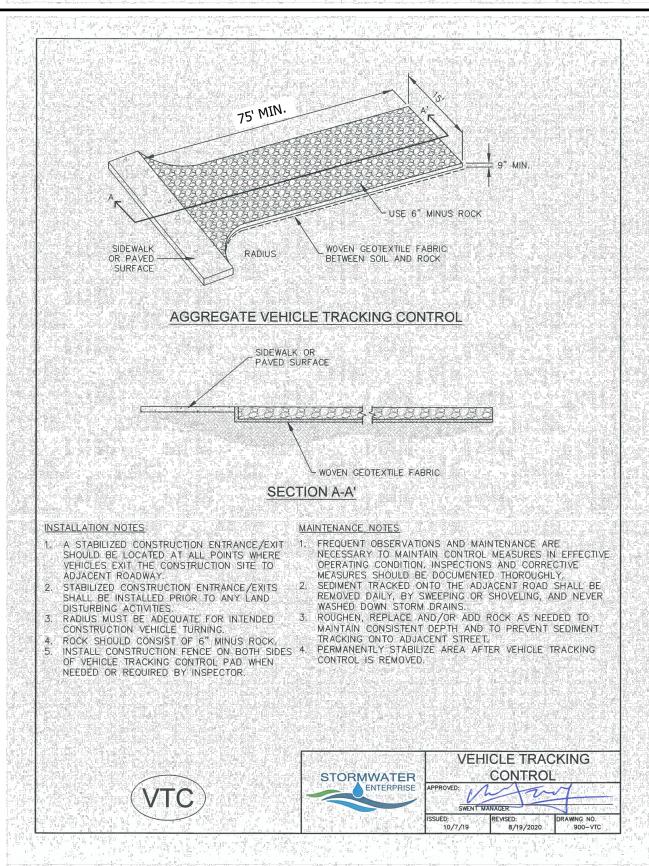


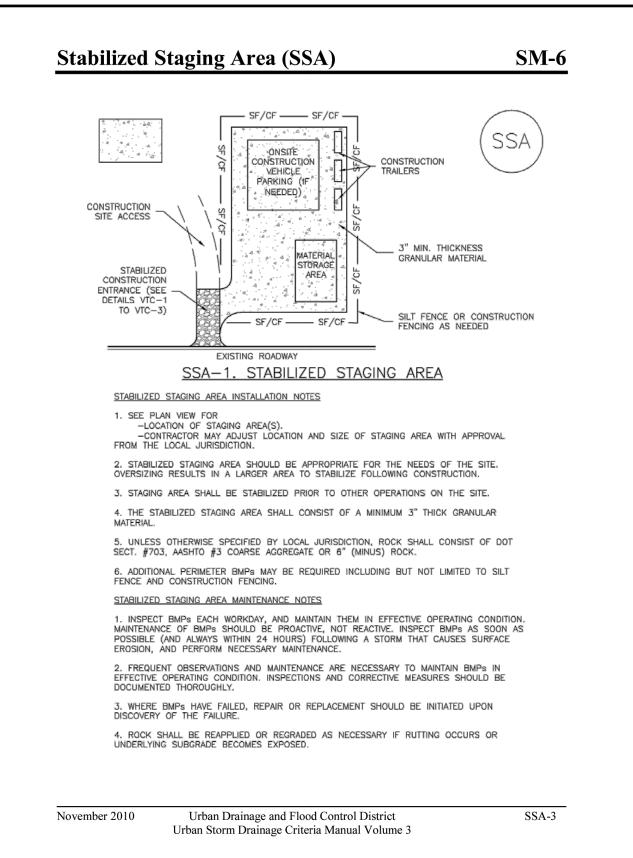












SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA SMALL BE EDLARGED IF NECESSARY TO CONTAIN PARKING,
STORAGE, AND UNLOADNOY/LOADNO EOPERATIONS.

6. THE STABILIZED STAGING AREA SMALL BE REMOVED AT THE END OF CONSTRUCTION. THE
GRANULAR MATERIAL SMALL BE REMOVED OR, IF APROVED BY THE LOCAL JURISDICTION,
USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR
OTHERWISE STABLEZED IN A DAMNARE APPROVED BY LOCAL JURISDICTION,
MOITE, MANT MURRICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR
MATERIAL FOR STABLEZED STAGING AREA SOLE TO DEFECULTION WAY FROM LOFCO STANDARD DETAILS.

NOTE: MANT JURISDICTIONS HAVE BARE DETAILS THAT WAY FROM LOFCO STANDARD DETAILS.
CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN
DIFFERENCES ARE NOTED.

(DETAILS ADMPTED FROM DOUBLAS COUNTY, COLORBOD, NOT AMALBRE IN AUTOCAC)

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

November 2010

NO. REVISION

1 COUNTY COMMEN

ENGINEERS NC SURVEYORS C

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ALLEY SALVATION ARMY
208 CUNNINGHAM DRIVE
CORADO SPRINGS, CO 80911
FAIN VALLEY SALVATION ARMY

SITE ADDRESS:

CO
PREPARED FOR:

FOUI

GRADING AND EROSION CONTROL PLAN

JOB NO. FV21181

ORG. SUBM. DATE 12/22/2023

DWN: JMP CHKD: DV

NAME

DETAILS

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