3275 Akers Drive
Colorado Springs, CO 80922
Phone 719-520-6460
Fax 719-520-6879
www.elpasoco.com

EL PASO COUNTY
STORMWATER MANAGEMENT
PLAN CHECKLIST

EPC Project Number: TBD

Revised: July 2019

		Applicant	EPC
1. STORMWATER MANAGEMENT PLAN			
1	Applicant (owner/designated operator), SWMP Preparer, Qualified Stormwater Manager, and Contractor Information. (On cover/title sheet)	x	
2	Table of Contents	x	
3	Site description and location to include: vicinity map with nearest street/crossroads description	x	
4	Narrative description of construction activities proposed (e.g., may include clearing and grubbing, temporary stabilization, road grading, utility / storm installation, final grading, final stabilization, and removal of temporary control measures)	x	
5	Phasing plan – may require separate drawings indicating initial, interim, and final site phases for larger projects. Provide "living maps" that can be revised in the field as conditions dictate	x	
6	Proposed sequence for major activities: Provide a construction schedule of anticipated starting and completion dates for each stage of land-disturbing activity depicting conservation measures anticipated, including the expected date on which the final stabilization will be completed	x	
7	Estimates of the total site area and area to undergo disturbance; current area of disturbance must be updated on the SWMP as changes occur	x	
8	Soil erosion potential and impacts on discharge that includes a summary of the data used to determine soil erosion potential	x	
9	A description of existing vegetation at the site and percent ground cover and method used to determine ground cover	x	
10	Location and description of all potential pollution sources including but not limited to: disturbed and stored soils; vehicle tracking; management of contaminated soils; loading and unloading operations; outdoor storage of materials; vehicle and equipment maintenance and fueling; significant dust generating process; routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc.; on-site waste management; concrete truck/equipment washing; dedicated asphalt, concrete batch plants and masonry mixing stations; non-industrial waste such as trash and portable toilets	x	
11	Material handling to include spill prevention and response plan and procedures	x	
12	Spill prevention and pollution controls for dedicated batch plants	x	
13	Other SW pollutant control measures to include waste disposal and off-site soil tracking	x	
14	Location and description of any anticipated allowable non-stormwater discharge (ground water, springs, irrigation, discharge covered by CDPHE Low Risk Guidance, etc.)	x	
15	Name(s) of ultimate receiving waters; size, type and location of stormwater outfall or storm sewer system discharge	x	
16	Description of all stream crossings located within the project area or statement that no streams cross the project area	x	

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		Applicant	EPC
17	SWMP Map to include:		
17a	construction site boundaries	x	
17b	flow arrows to depict stormwater flow directions	x	
17c	all areas of disturbance	x	
17d	areas of cut and fill	x	
17e	areas used for storage of building materials, soils (stockpiles) or wastes	x	
17f	location of any dedicated asphalt / concrete batch plants	x	
17g	location of all structural control measures	x	
17h	location of all non-structural control measures	x	
17i	springs, streams, wetlands and other surface waters, including areas that require maintenance of pre-existing vegetation within 50 feet of a receiving water	NA	
18	Narrative description of all structural control measures to be used. Modifications to EPC standard control measures must meet or exceed County-approved details	x	
19	Description of all non-structural control measures to be used including seeding, mulching, protection of existing vegetation, site watering, sod placement, etc.	x	
20	Technical drawing details for all control measure installation and maintenance; custom or other jurisdiction's details used must meet or exceed EPC standards	x	
21	Procedure describing how the SWMP is to be revised	x	
22	Description of Final Stabilization and Long-term Stormwater Quality (describe nonstructural and structural measures to control SW pollutants after construction operations have been completed, including detention, water quality control measure etc.)	x	
23	Specification that final vegetative cover density is to be 70% of pre-disturbed levels	x	
24	Outline of permit holder inspection procedures to install, maintain, and effectively operate control measures to manage erosion and sediment	x	
25	Record keeping procedures identified to include signature on inspection logs and location of SWMP records on-site	x	
26	If this project relies on control measures owned or operated by another entity, a documented agreement must be included in the SWMP that identifies location, installation and design specifications, and maintenance requirements and responsibility of the control measure(s)		
	Please note: all items above must be addressed. If not applicable, explain why, simply identifying "not applicable" will not satisfy CDPHE requirement of explanation.		
2. ADDITIONAL REPORTS/PERMITS/DOCUMENTS			
a	Grading and Erosion Control Plan (signed)	x	
b	Erosion and Stormwater Quality Control Permit (ESQCP) (signed)	TBD	

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STORMWATER MANAGEMENT
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		Applicant	EPC
3. APPLICANT COMMENTS			
a	No wetlands streams or other surface waters are in the vicinity of this project.	x	
b	The ESQCP permit will be submitted once a contractor is selected.	x	
c			
4. CHECKLIST REVIEW CERTIFICATIONS			
a	Engineer of Record: The Stormwater Management Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County and State for Stormwater Management Plans. Digitally signed by Zack Graham Date: 2021.04.16 13:50:20-06'00' Engineer of Record Signature 04/16/21 Date	x	
b	Review Engineer: The Stormwater Management Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request. Review Engineer Date		

Storm Water Management Plan
Les Schwab Tire Center

7105 Old Meridian RD.
Falcon Colorado

Prepared For:

Les Schwab Tire Center
P.O. Box 5350 20900 Cooley RD.
Bend, OR 97701

Prepared By:

Cushing Terrell

Zack Graham, PE
411 E Main ST #101
Bozeman, MT 59715
(406) 922-7137
www.cushingterrell.com

COLORADO LICENSED
ZACHARY W. GRAHAM
39039
PROFESSIONAL ENGINEER
Date: 2021.04.19 14:55:26-06'00'

Cushing Terrell Project No. LSCO_20FAL

April, 16, 2021

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1.0 CONTACT INFORMATION

1.1 Owner:

George Bunting
SFP-E, LLC
P.O. Box 5350 20900 Cooley RD.
Bend, OR 97701
(541) 416-5241

1.2 SWMP Preparer:

Zack Graham, PE
Cushing Terrell
411 E Main ST #101
Bozeman, MT 59715
(406) 922-7137

1.3 Qualified Stormwater Manager:

TBD

1.4 Contractor:

TBD

2.0 SITE DESCRIPTION

The project site is located at 7105 Old Meridian Rd, Falcon, Colorado and falls within El Paso County. The parcel is part of the larger Meridian Crossing Development which includes the existing stormwater system infrastructure, including the treatment pond to the south. The site is located on the northeast side of the intersection of Meridian Rd and Old Meridian Rd. A vicinity map for this project can be found in appendix A.

The existing site consists of an undeveloped 2.48 acre lot covered with native grasses and shrubs. In areas taken from the ALTA Survey the site consists of roughly 12% impervious road and sidewalk area with the remaining 88% being the native vegetation. There are no stream crossings or significant waterways located within the area being developed by this project. The site is accessed via the existing private roads that are centered on the north east and south east property lines of the site. These roads will provide means of vehicular ingress and egress.

The topography of the existing site consists of a roughly consistent grade which directs flow from the north of the site towards the south at slopes ranging from 2-5%. There is an existing storm line that runs west to east along the southern edge of the site before crossing Old Meriden Rd. that ultimately connects to the adjacent detention pond. The site is not located in a floodway or flood plain and is designated as area of minimal flood hazard (Zone X).

3.0 NARRATIVE DESCRIPTION OF CONSTRUCTION ACTIVITIES

The proposed projected will include the construction of a new Les Schwab Tire Center (LSTC) tire and automotive service center building, walled tire storage area, landscaping, parking lot, and drive aisles. The building will be located on the center of the site with the tire storage area to its north east and the parking lot to its west.

Drainage flows will be directed to proposed storm inlets and then directed into the underground storm system, ultimately out-falling to the adjacent Meridian Crossing detention pond. Some landscaped areas will maintain historic flow paths to the to the south. Offsite flows will be maintained at or below historic levels. For more detail regarding the existing storm infrastructure, please reference the "Meridian Crossing Final Drainage Report" which is recorded with El Paso County record number 280417. For more information regarding the proposed storm water improvements, reference the "Storm Water Report for Les Schwab Tire Center".

There are no anticipated offsite flows or non-stormwater discharges for this site.

3.1 Soil Erosion Potential

Using the Web Soil Survey tool provide by USDA the site was found to contain soils with an A hydrologic soil group which is associated with a high infiltration rate and low runoff potential. Based on this rating the determination was made that standard construction, BMPs will be sufficient for runoff control during construction. These BMPs are listed in section 4 of this report.

3.2 Disturbed Area

The proposed disturbance area by this project is 2.29 acres. This value is to be updated by the Qualified Stormwater Manager during to construction to account for any unexpected disturbed areas.

3.3 Project Phasing

The project phasing for this site will take place in three major phases:

- Initial Development: Installing the erosion control BMPs and mobilizing on site.
- Interim Development: once initial BMPs are in place building construction and site paving may begin.
- Final Development: Only once all finalized stormwater measures are in place can the erosion control BMPs be removed from the site.

3.4 Project Sequence

This section includes an estimated schedule for the work on this project. This schedule is approximate and should be updated by the Qualified Stormwater Manager during construction of the project to reflect the evolving nature of the project.

- Clearing (August - September 2021)
- Mass Grading (September - October 2021)

- Utility Installation (October - November 2021)
- Paving Construction (November - December 2021)
- Final Stabilization (December - January 2021)

4.0 PROPOSED BMPS

The following BMPs are shown in plan view and as details in appendix B. The following summary of BMPs is to be updated by the Qualified Stormwater Manager during construction to provide a complete list of the measures used.

4.1 Concrete Washout Area

The concrete washout area serves as a designated space to wash vehicles, tools, or other equipment that has accumulated concrete debris. This stabilized area prevents the concrete from leaving the site and allows for it to be collected in one area for easier collection and disposal. The washout area consists of a depressed area surrounding by a berm on 3 sides and vehicle tracking pad on the other to allow access.

4.2 Inlet Protection

Inlet protection prevents the excess sedimentation generated by construction from entering the stormwater system. The protection measures consist of creating a barrier of rock socks surrounding the inlet to filter out the sediment generated in a storm event.

4.3 Rock Sock

A rock sock is a tube of wire mesh containing 1 ½" gravel. The purpose of this BMP is to allow stormwater to flow through the rock sock causing it to lose velocity, as well as filter out trash and sediment. Typically, these are used to protect storm inlets or in curbs adjacent to the construction.

4.4 Silt Fence

Silt fence is a perimeter control measure that should be placed to surround the disturbed area. The fence intercepts flows leaving the site and allows water to slowly pass through while filtering out sedimentation. The fence is constructed of a geotextile fabric attached to stakes. When installed a minimum of 10 inches of the geotextile "tail" should be buried to prevent stormwater from running under the fence.

4.5 Stabilized Staging Area

This is area consist of a 3" pad of thick granular material surrounded by silt fence and should be located adjacent to the construction entrance. The purpose of this area is to serve as the construction staging area where high equipment traffic and parking can be expected.

4.6 Stockpile Area

This area is surrounded by silt fence and serves as a location where topsoil, fill, and other construction materials can be stored on site. The material stockpile should not exceed a 2:1 slope to maintain stability.

4.7 Temporary and Permanent Seeding

When a disturbed area will be not be impacted by construction for an extended period, temporary seeding can be used as a measure to prevent additional erosion. For permanent seeding, reference the Landscape drawings and specifications.

4.8 Vehicle Tracking Control

A vehicle tracking control pad should be installed where vehicles are entering or leaving the site. This pad removes the sediment that has accumulated on the vehicles tires while on site. The pad consists of a 50-foot by 20-foot minimum pad of #3 aggregate or 6" minus rock sitting atop a non-woven geo-textile. As the pad is worn by vehicle traffic it should be regraded and have rock added as needed to maintain the 9" thickness.

4.9 Material Handling and Spill Prevention

Material handling and spill prevention consists of a series of measures that should be implemented to ensure the proper handling of materials on site. In general material handling and spill prevention measures fall in the following three categories:

1. Training Prevention methods
    a. Train employees on potential sources of pollution and provide clear and common-sense prevention practices.
    b. Identify equipment that may be impacted by stormwater leading to leaks or unintended discharge.
    c. Perform regular maintenance and inspection of equipment with an eye on leaks or evidence of discharge.
    d. Designate a fueling area away from storm inlets and clean up all spills with dry methods.
    e. Where possible, use indoor or covered storage for equipment.
2. Material Handling Procedures
    a. Keep bulk solid materials (sand, gravel, etc.) covered to prevent erosion.
    b. Where possible, store materials on impervious surfaces.
    c. Store hazardous materials according to all federal state and local requirements.
    d. Use less toxic materials when possible.
    e. Store fragile or easily punctured materials away from high vehicle traffic areas.
    f. Use waste capture materials, such as collection pans for lubricating fluids.
3. Spill Response Procedures
    a. Containment and cleanup should begin promptly after a spill.
    b. Sweep up small quantities of dry chemical or solids to reduce exposure to runoff.
    c. Absorbents should be readily accessible in fueling areas or other high-risk areas.

d. Install drip pans beneath minor equipment leaks and properly dispose of material until repair can be made.

5.0 SWMP REVISION PROCEDURE

Following the assignment of a Qualified Stormwater Manager for this project the SWMP document will be transferred to them. It is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector to maintain and update this document. The SWMP shall always be located on site during construction and shall be kept up to date with work progress and changes in the field. Inspection logs should also be maintained and attached to this document as part of the record keeping procedure.

6.0 OPERATIONS AND MAINTENANCE GUIDELINE

The Qualified Stormwater Manager for this project is responsible for the inspection of stormwater BMPs and their maintenance as required. It is the responsibility of the Qualified Stormwater Manager to create, complete, and sign inspection logs of the stormwater BMPs and maintain the records onsite. The stormwater BMP's should be inspected at a minimum every 7 days and following each storm event. In general, the following items should be inspected and corrected as needed:

- Check stormwater inlets and manholes for trash and debris.
- Inspect construction BMP placement and condition, and repair any damage caused by construction activities.
- Inspect inlet protection and placement.
- Replace rock socks or inlet protection if they become heavily soiled.
- Inspect silt fence and reinstall where fence may have collapsed or is showing signs of wear, such as sagging or tears in the fence material.
- Reapply rock to vehicle tracking pad where wear is apparent.

Cushing Terrell

APPENDIX A: VICINITY MAP

0 125 250 500

SCALE: 1" = 250'

NORTH

Cushing Terrell

DENVER, CO
720.305.1416

7105 OLD MERIDIAN RD.
FALCON, CO

VICINITY MAP

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01/04/21
LSCO_20FAL

DRAWN BY
WALKER
CHECKED BY
WHITE

SHEET NAME
VIC-MAP

Cushing Terrell

APPENDIX B: GESC PLANS

LES SCHWAB TIRE CENTER
GRADING AND EROSION CONTROL PLAN
7105 OLD MERIDIAN ROAD
FALCON, COLORADO 80831

Cushing Terrell

[redacted]

Tires LES SCHWAB

DEVELOPER/OWNER CONTACT

OWNER/DEVELOPER
SFR-E, LLC
GEORGE BUNTING
PO BOX 5350
20900 COOLEY RD.
BEND, OR 97701

JURISDICTIONAL CONTACTS

EL PASO COUNTY
PLANNING DEPARTMENT
JOHN GREEN
2880 INTERNATIONAL CIRCLE #110
COLORADO SPRINGS, CO 80910
(719) 520-6442

UTILITY COMPANY

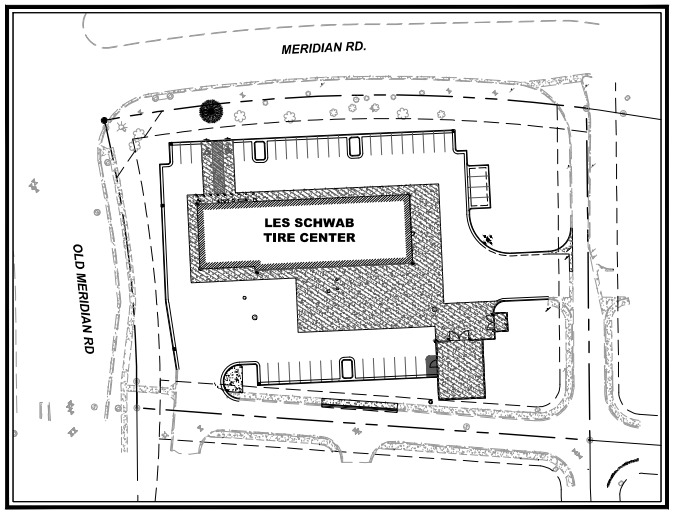
SANITARY SEWER
WOODMAN HILLS METRO DISTRICT
8046 EASTON RD,
FALCON, CO 80831
(719) 295-2500

WATER
FALCON HIGHLANDS METRO DISTRICT
111 S. TEJON ST, #705
COLORADO SPRINGS, CO 80903
(719) 635-0330

GAS
COLORADO SPRINGS UTILITIES
111 S. CASCADE AVE.
COLORADO SPRINGS, CO 80903
(719) 448-4808

POWER
MOUNTAIN VIEW ELECTRIC
11140 E WOODMEN ROAD
FALCON, CO 80831
(800) 388-9881

PHONE/CABLE
CONTRACTOR TO COORDINATE SERVICE PROVIDER WITH OWNER



SITE MAP
1" = 50'
NORTH

SHEET LIST

CIVIL

C010 COVER SHEET
C011 GESC NOTES
C012 INITIAL GESC PLAN
C013 INTERIM/FINAL GESC PLAN
C014 GESC DETAILS
C015 GESC DETAILS
C016 GESC DETAILS
C017 CUT / FILL GESC EXHIBIT

ENGINEERS STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

ENGINEER OF RECORD SIGNATURE _____ DATE _____

OWNERS STATEMENT

OWNER'S STATEMENT (FOR STANDALONE GEC PLAN): I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

OWNER SIGNATURE _____ DATE _____

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

COUNTY PROJECT ENGINEER SIGNATURE _____ DATE _____

LEGAL DESCRIPTION

(THE FOLLOWING LEGAL DESCRIPTION WAS TAKEN FROM FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO, NCS-975191-X17-OR1 WITH A COMMITMENT DATE OF OCTOBER 24, 2019 AT 5:00 P.M.)

PARCEL A:

LOT 1, MERIDIAN CROSSING FILING NO. 1A, ACCORDING TO THE PLAT RECORDED OCTOBER 3, 2018 AT RECEPTION NO. 218714221, COUNTY OF EL PASO, STATE OF COLORADO .

PARCEL B:

NON EXCLUSIVE EASEMENTS FOR CROSS ACCESS, INGRESS AND EGRESS AS SET FORTH AND GRANTED IN THE MERIDIAN CROSSING MAINTENANCE AGREEMENT AND DECLARATION OF COVENANTS CONDITIONS AND RESTRICTIONS RECORDED SEPTEMBER 8, 2008 AT RECEPTION NO. 208099925 AND FIRST AMENDMENT THERETO RECORDED APRIL 8, 2009 AT RECEPTION NO. 20935924.

FOR INFORMATIONAL PURPOSES ONLY: APN: 5312114001

VICINITY MAP
NTS

CONSULTANT TEAM

ARCHITECT
CUSHING TERRELL
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CUSHING TERRELL
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ELECTRICAL ENGINEER
CUSHING TERRELL
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LANDSCAPE ARCHITECT
CUSHING TERRELL
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(208) 336-4900

GEOTECHNICAL ENGINEER
PICKERING, COLE, & HIVNER
GLEN D. OHLSEN, PE
1070 WEST 124TH AVE, SUITE 300
WESTMINSTER, CO 80234
(208) 323-9520

811
Know what's below.
Call before you dig.

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

7105 OLD MERIDIAN RD.
FALCON, CO
LES SCHWAB TIRE CENTER

ZACHARY W. GRAHAM 39259 PROFESSIONAL ENGINEER

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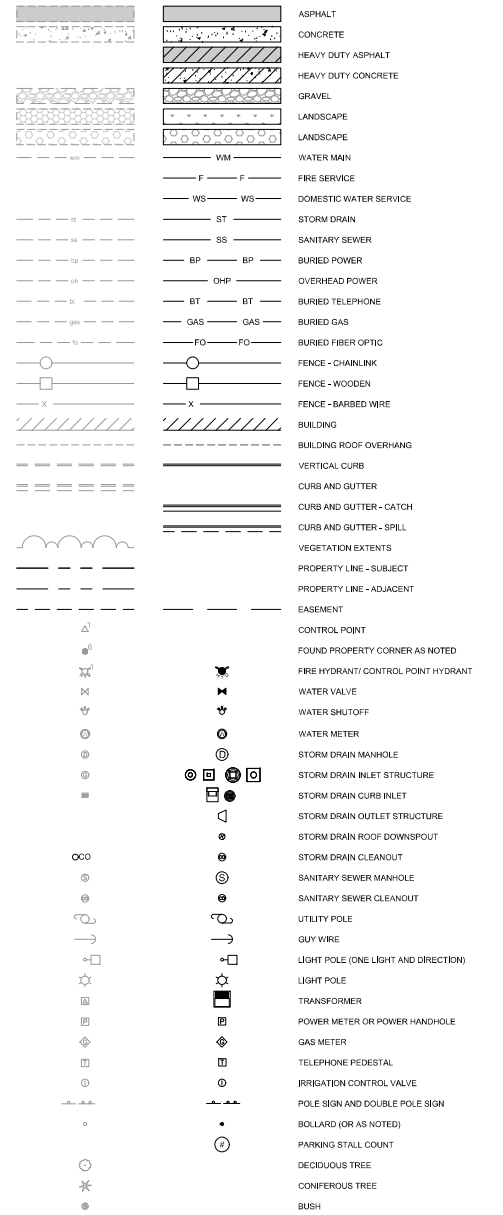
SITE DEVELOPEMENT PLANS

04.16.2021
DRAWN BY | WALKER
CHECKED BY | GRAHAM
REVISIONS
-

GRADING AND EROSION CONTROL COVER SHEET

C010

LEGEND



NOTE: ALL EXISTING LAYERS SUBJECT TO DEMOLITION TO BE SHOWN DARKER THAN INDICATED IN THIS LEGEND.

STANDARD NOTES FOR EL PASO COUNTY GESC PLAN

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 COUNTY STAFF.
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 DAYS.
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 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, UNCONTAMINATED GROUNDWATER 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 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.
25. 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.
26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
27. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
28. 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.
29. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY PICKERING, COLE & HIVNER, LLC. DATED SEPTEMBER 27TH, 2016 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
30. 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 FORSTORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITYDIVISION. 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

ABBREVIATIONS

@	AT	LT	LEFT
AB	ABANDONED	MEG	MATCH EXISTING GRADE
AHJ	AUTHORITIES HAVING JURISDICTION	MH	MANHOLE
APPROX	APPROXIMATE	MTR	METER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	NTS	NOT TO SCALE
BC	BACK OF CURB	OC	ON CENTER
BCR	BACK OF CURB RADIUS	OH, OHP	OVERHEAD, OVERHEAD POWER
BM	BENCHMARK	OHU	OVERHEAD UTILITIES
BOT	BOTTOM	PB	PULL BOX
BP	BURIED POWER	PC	POINT OF CURVATURE
BT	BURIED TELEPHONE	PIP	PROTECT IN PLACE
BW	BOTTOM OF WALL	℄, PL	PROPERTY LINE
C&G	CURB & GUTTER	PP	POWER POLE
CATV, TV	CABLE TELEVISION	PRC	POINT OF REVERSE CURVE
CI	CAST IRON	PT	POINT OF TANGENCY
CIPP	CURED IN PLACE PIPE	PVC	POLYVINYL CHLORIDE PIPE
℄, CL	CENTERLINE	RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE	RIM	RIM OF MANHOLE LID OR GRATE
CO	CLEANOUT	ROW	RIGHT OF WAY
D, DIA	DIAMETER	SF	SQUARE FOOT, SQUARE FEET
DG	DECOMPOSED GRANITE	SP	SPECIAL PROVISIONS
DI	DUCTILE IRON	SS	SANITARY SEWER
DIP	DUCTILE IRON PIPE	SSMH	SANITARY SEWER MANHOLE
DOM	DOMESTIC WATER	ST	STORM DRAIN
DW	DRIVEWAY	STA	STATION
DWG	DRAWING	STCB	STORM CATCH BASIN
EG	EXISTING GRADE	STCI	STORM CURB INLET
ELEC, E	ELECTRIC	STD	STANDARD
EL, ELEV	ELEVATION	STMH	STORM MANHOLE
EOP, EP	EDGE OF PAVEMENT	STYD	STORM YARD DRAIN
ESCP	EROSION AND SEDIMENT CONTROL PLAN	SW	SIDEWALK
EX	EXISTING	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FC	FACE OF CURB	SY	SQUARE YARD
FG	FINISHED GRADE	T, TEL	TELEPHONE
FH, HYD	FIRE HYDRANT	TA	TOP OF ASPHALT
FL	FLOW LINE	TBC	TOP BACK OF CURB
FT	FOOT, FEET	TC	TOP OF CONCRETE
G	GAS	TEMP	TEMPORARY
GM	GAS METER	TRANS	TRANSITION
GV	GAS VALVE	TW	TOP OF WALL
GW	GUY WIRE	TYP	TYPICAL
HP	HIGH PRESSURE	VCP	VITRIFIED CLAY PIPE
IE	INVERT ELEVATION	WM	WATER MAIN
INT	INTERSECTION	WV	WATER VALVE
IRR	IRRIGATION	W/	WITH
L	LENGTH	Δ	DELTA
LF	LINEAL FOOT, LINEAR FEET		
LS	LANDSCAPING		

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04.16.2021
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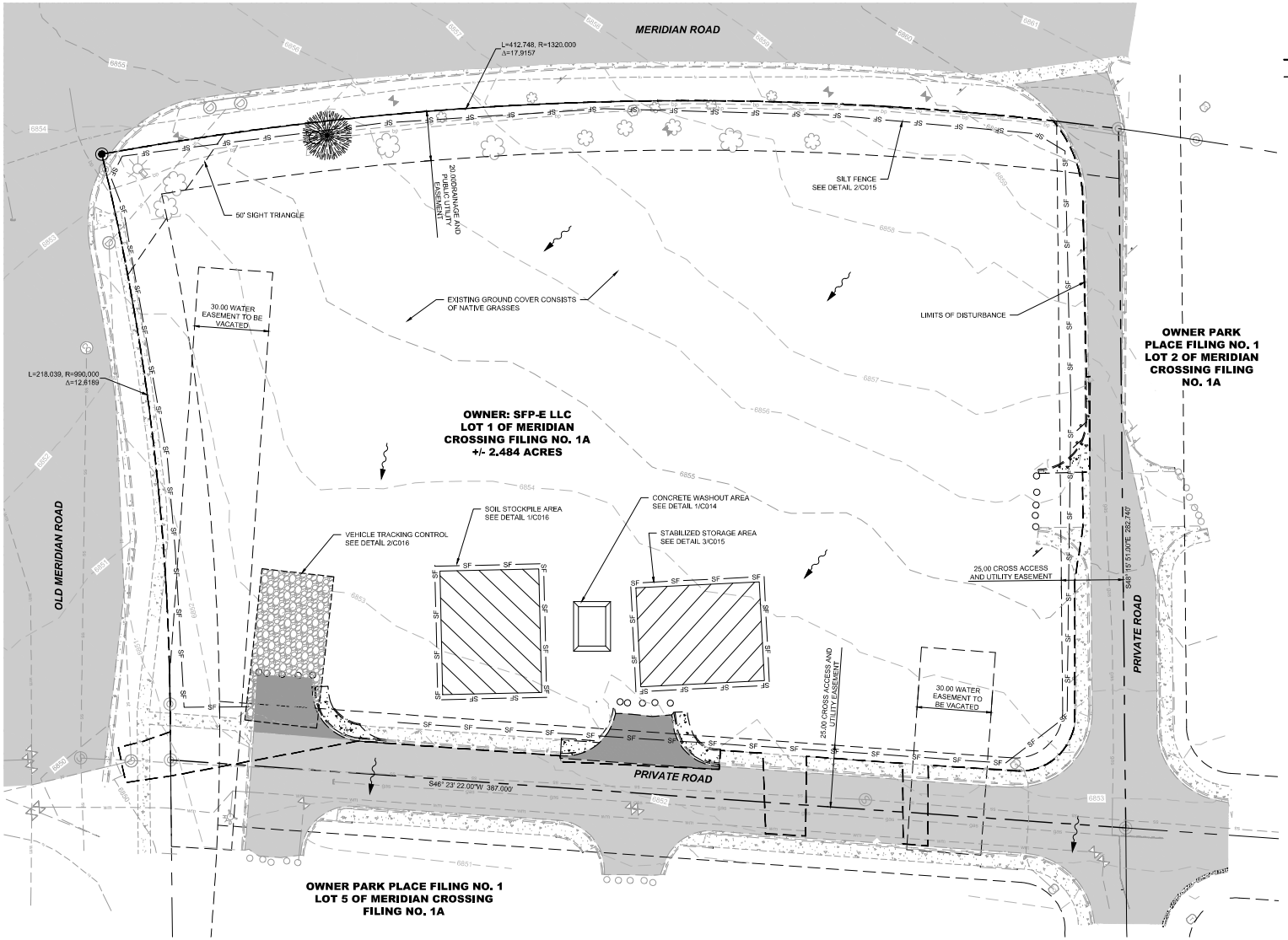
811 Know what's below. Call before you dig.

GESC NOTES

C011



1 C012 INITIAL GESC PLAN

NORTH

0 10 20 40

SCALE: 1" = 20'

EROSION CONTROL PLAN LEGEND

- FLOW ARROW
- LIMITS OF DISTURBANCE
- SF — SF — SILT FENCE
- CONSTRUCTION ENTRANCE
- RS — ROCK SOCK
- IP — INLET PROTECTION
- SOIL STOCKPILE
- CONCRETE WASHOUT

GESC NOTES

1. THE PROJECT SITE FALLS OUTSIDE FEMA DESIGNATED FLOODPLAIN AND IS DESIGNATED ZONE X AREA OF MINIMAL FLOOD HAZARD

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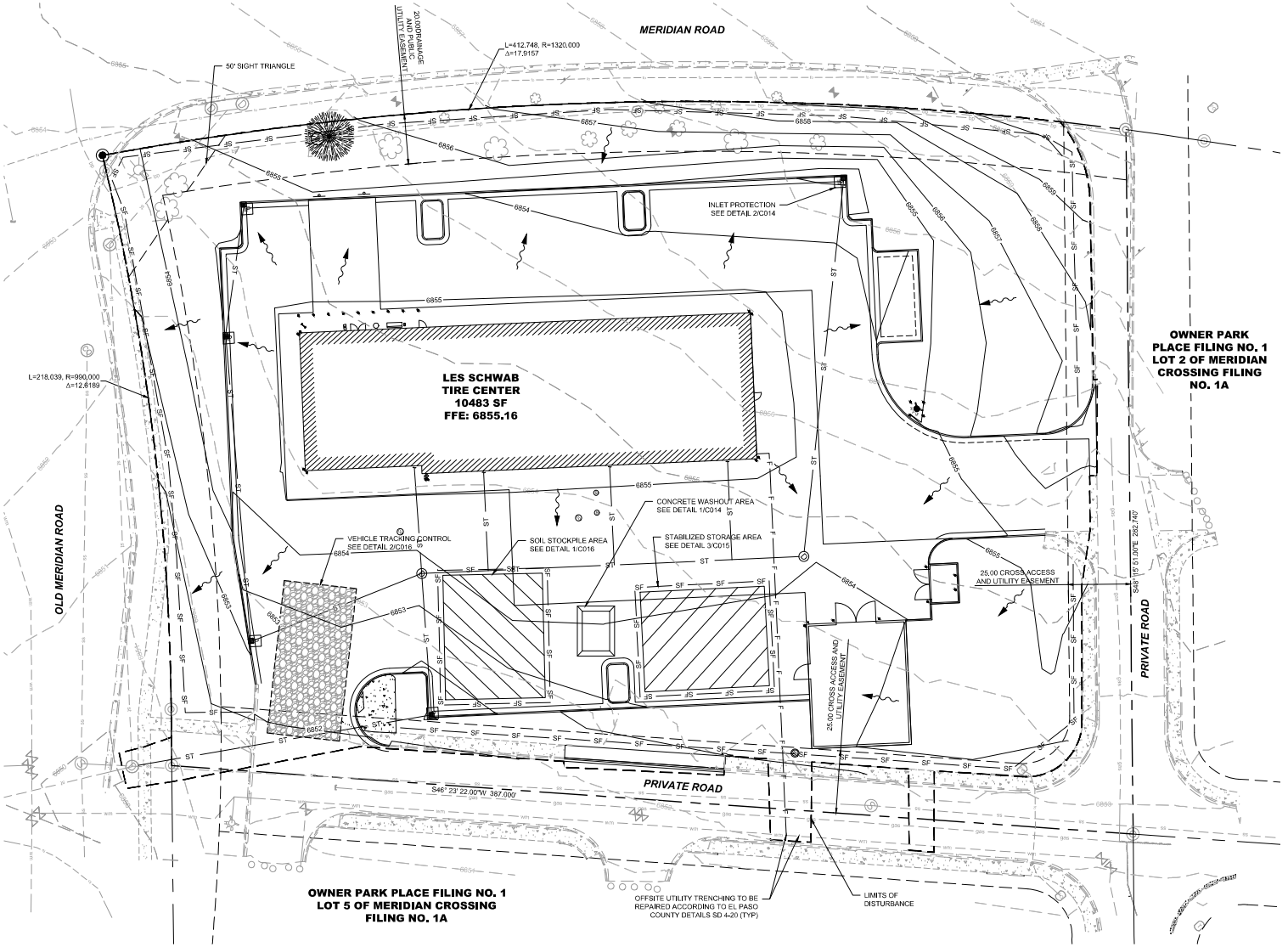
INITIAL GESC PLAN

C012



1 / C012 INTERIM / FINAL GESC PLAN

NORTH

0 10 20 40

SCALE: 1" = 20'

EROSION CONTROL PLAN LEGEND

- FLOW ARROW
- LIMITS OF DISTURBANCE
- SF — SF — SILT FENCE
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INTERIM / FINAL GESC PLAN

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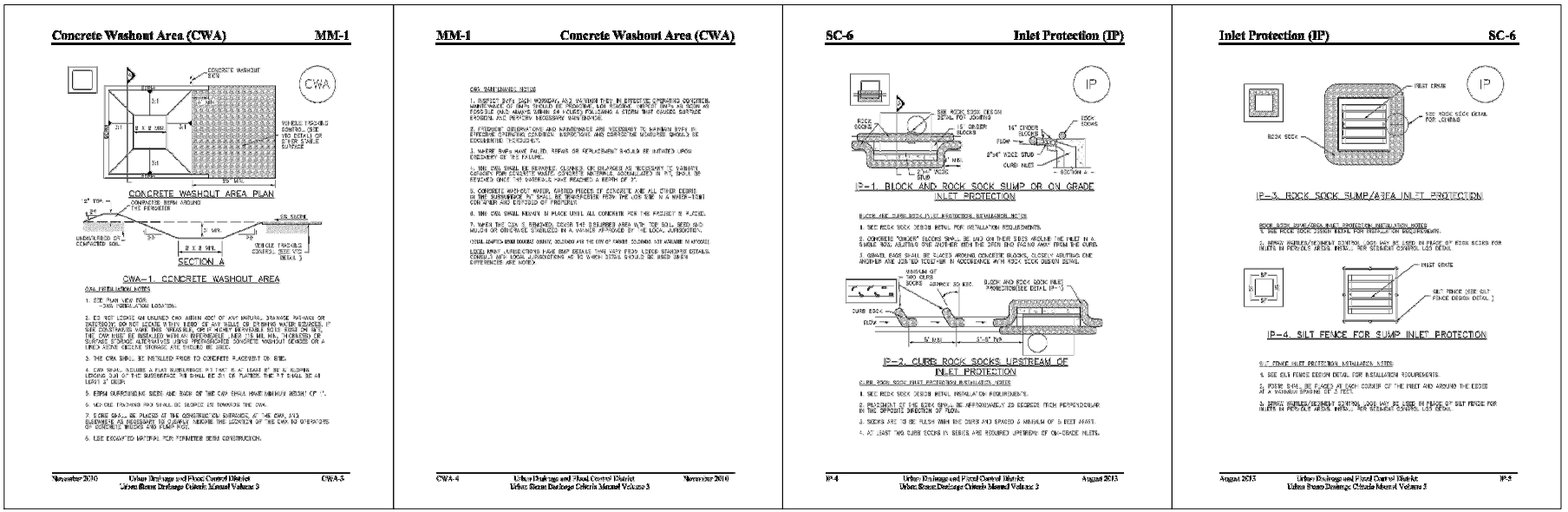
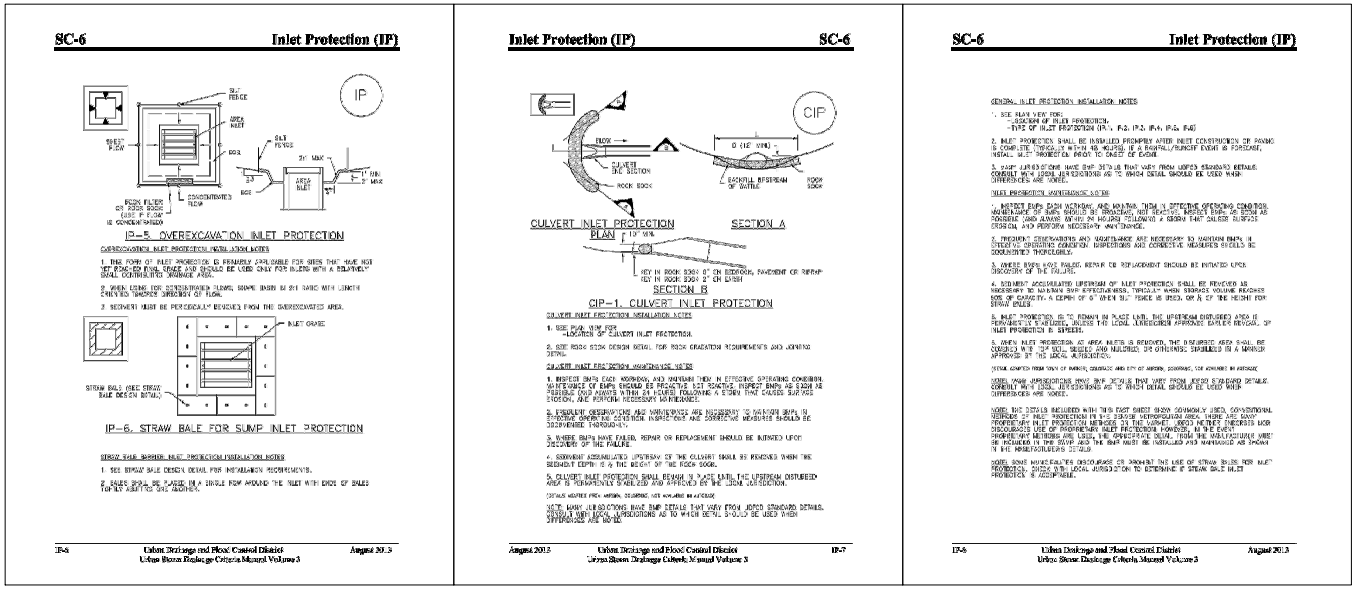


1 C014 CONCRETE WASHOUT AREA

2 C014 INLET PROTECTION



2 C014 INLET PROTECTION (CONT.)

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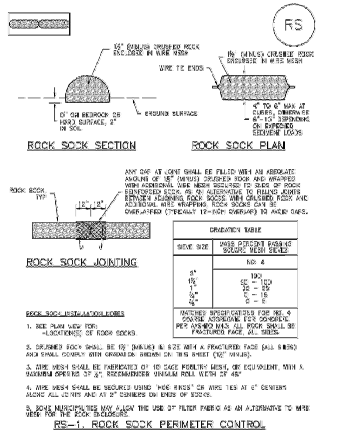
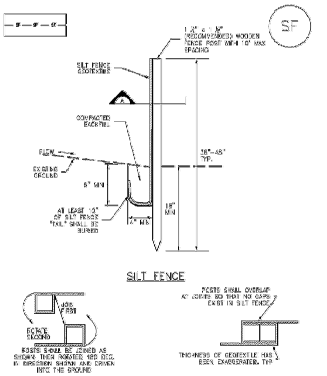


RS–1. ROCK SOCK PERIMETER CONTROL

ROCK SOCK MAINTENANCE NOTES

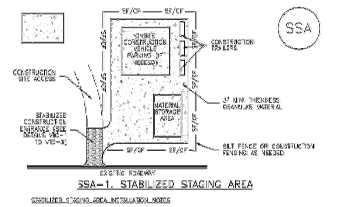


SILT FENCE INSTALLATION NOTES

SILT FENCE MAINTENANCE NOTES

1 C015 ROCK SOCK

2 C015 SILT FENCE



STABILIZED STAGING AREA INSTALLATION NOTES

STABILIZED STAGING AREA MAINTENANCE NOTES

STABILIZED STAGING AREA MAINTENANCE NOTES

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

Species[1] (Common name)	Growth Season[2]	Pounds of Pure Live Seed (PLS)/acre[3]	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	½
5. Millet	Warm	1 - 15	¼ - ½
6. Winter wheat	Cool	50 - 85	1 - 2
7. Winter barley	Cool	50 - 85	1 - 2
8. Winter rye	Cool	50 - 85	1 - 2
9. Triticale	Cool	25 - 40	1 - 2

[1] Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dense cover mixture to provide protection from wind and water erosion for an additional year. This assumes that the cover is not chemically or mowed closer than 6 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 ensure the seeds have been covered as little as possible.

[2] See Table TS/PS-2 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

[3] Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Rollins Drill or by hydraulic seeding.

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

	Annual Grasses (Seeding rate same as shown in Table TS/PS-1)		Perennial Grasses	
Seeding Dates	Warm	Cool	Warm	Cool
January 1- March 15			✓	✓
March 16-April 30		1,2,3	✓	✓
May 1-May 15			✓	
May 16-June 30	5			
July 1-July 15	5			
July 16-August 31				
September 1-September 30		6, 7, 8, 9		
October 1-December 31			✓	✓

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the USDCM Volume 2 Revegetation Chapter and Volume 3 Mulching/Soil Tack Blend (SC-M) 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.

If a temporary annual seed was planted, the area should be reseeded with the desired perennial mix when there will be no further work in the area. The choice or overlap of mix between annual and perennial species, the amount to be seeded, and the time to reseed will depend on the planting date for perennial mix. To encourage success of the perennial mix, it should be seeded during the appropriate seeding dates the second year after the temporary annual mix was seeded. Alternatively, if the timeline is not feasible, the annual mix seed needs should be measured and then the area reseeded with the perennial mix.

An area may be seen 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 recruit 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.

3 C015 STABILIZED STAGING AREA

4 C015 TEMPORARY AND PERMANANT SEEDING

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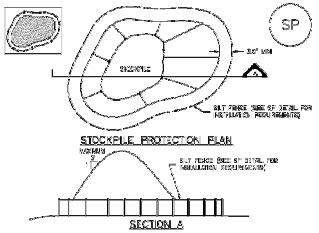


SP-1 STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF STOCKPILES
   - TYPE OF STOCKPILE PROTECTION.

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS, SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR WOOD WASTE MAY BE SUITABLE IN SOME CONSTRUCTION SITUATIONS. CONSIDERATIONS FOR SELECTING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WORK IN THE VICINITY OF STORM DRAIN INLETS OR WATERWAYS, SLOPE OF THE PLACE TO INSTALL PERIMETER CONTROL AND SECURING THE STABILITY OF PERIMETER CONTROL TO CONTAIN THE SEDIMENT TO BE STORED. LOCATE THE STOCKPILE AT LEAST 5 FEET (1.5 M) AWAY FROM THE BOTTOM OF SLOPES AGAINST THE TERRACES, AND OTHER FEATURES.

3. REVEGETATE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER SUCH AS ANNUAL RYEGRASS OR SMOOTH BROME. USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORTH DURING THE PERIOD (TYPICALLY JUNE-SEPT).

4. USE TEMPORARY STOCKPILES ON THE DOWNHILL PERIMETER OF A CONSTRUCTION SITE WHERE OTHER SEDIMENT-TRAP CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE. STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION MAINTENANCE NOTES

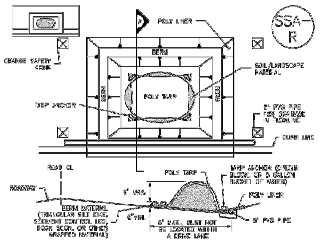
1. INSPECT BMPS FOR STOCKPILES, AT A MINIMUM THEY IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. REPAIR BMPS AS SOON AS POSSIBLE ONCE ALWAYS WITHIN 24 HOURS FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND REMOVE NECESSARY SEDIMENTS.

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, REPAIRS OR REPLACEMENT SHOULD BE IN-KIND UPON DISCOVERY OF THE FAILURE.

4. STOCKPILE PROTECTION MEASURES SHALL BE REMOVED ONCE ALL THE MATERIAL REQUIRING PROTECTION HAS BEEN USED.

OTHER MATERIALS MAY REQUIRE SPECIAL CONSIDERATIONS AND MAY NOT BE SUITABLE FOR STOCKPILING. SEDIMENT CONTROL LOGS, MANUFACTURED SOIL BINDERS, AND WOOD MULCH ARE EXAMPLES OF MATERIALS THAT MAY REQUIRE SPECIAL CONSIDERATIONS.



SP-2 MATERIALS STAGING IN ROADWAY

MATERIAL STAGING IN ROADWAY INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF MATERIAL STAGING AREA(S)
   - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, PLACEMENT OR REMOVAL OF MATERIALS.

3. MATERIALS MUST BE STACKED ON THE POLY LINER, MAY MODIFY MATERIALS PLACEMENT ON PAVED SURFACE OR ALLOW ZONE UNTIL TEST IS CLEARED BY ENGINEER.

4. POLY LINER AND TARP COLOR SHOULD BE OF DARK COLOR THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.

5. SAND BAGS MAY BE SUBSTITUTED TO AVOIDING THE COVER TARP OR PROVIDE BERMING AROUND THE SMALL AREAS.

6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR NON-CHEMICAL MATERIALS

7. THIS FEATURE CAN BE USED FOR:
   - UTILITY TRENCHING
   - TEMPORARY STAGING LOCATIONS AND DRIVING ONTO VEHICLES
   - OTHER LATTER APPLICATION AND SIMILAR EROSION CONTROL

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

1. INSPECT BMPS FOR STOCKPILES, AT A MINIMUM THEY IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. REPAIR BMPS AS SOON AS POSSIBLE ONCE ALWAYS WITHIN 24 HOURS FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND REMOVE NECESSARY SEDIMENTS.

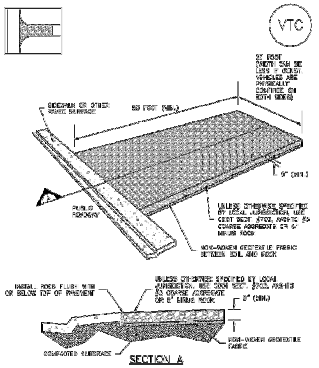
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPS HAVE FAILED, REPAIRS OR REPLACEMENT SHOULD BE IN-KIND UPON DISCOVERY OF THE FAILURE.

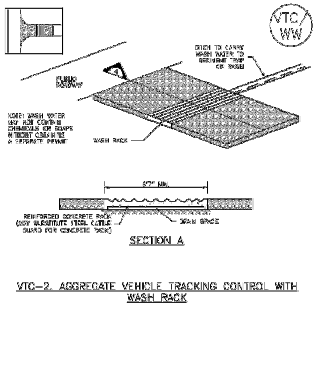
4. MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES SHOULD BE REMOVED UPON COMPLETION OF THE WORK.

5. OTHER MATERIAL TYPES AVAILABLE BY VENDOR TO BE EVALUATED ON AN INDIVIDUAL BASIS. SOME MANUFACTURED SOIL BINDERS HAVE SHORT LIFESPANS AND MAY NEED TO BE REAPPLIED MULTIPLE TIMES DURING CONSTRUCTION. CONSULT WITH LOCAL JURISDICTIONS AND THE MANUFACTURER'S RECOMMENDATIONS TO ENSURE THE PRODUCT IS USED WHERE APPROPRIATE AND EFFECTIVE.

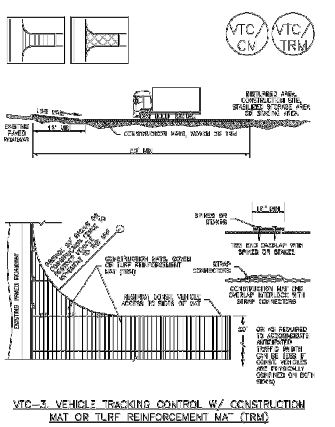
1 C016 STOCKPILE AREA



VTC-1, AGGREGATE VEHICLE TRACKING CONTROL



VTC-2, AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK



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

VEHICLE TRACKING CONTROL INSPECTION/MAINTENANCE NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
   - TYPE OF CONSTRUCTION ENTRANCE/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM ASSOCIATED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY FINISHED FROM A STREET TO A BUILDING) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE PROVIDED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. REMOVE ALL BMPS SPECIFIED IN LOCAL JURISDICTION BMP MANUAL, CONSIST OF EXIT TYPE, WHEN ADJACENT DISTURBED AREAS ARE STABILIZED.

WHEEL WASH CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPS FOR STOCKPILES, AND MINIMUM THEY IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. REPAIR BMPS AS SOON AS POSSIBLE ONCE ALWAYS WITHIN 24 HOURS FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND REMOVE NECESSARY SEDIMENTS.

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, REPAIRS OR REPLACEMENT SHOULD BE IN-KIND UPON DISCOVERY OF THE FAILURE.

4. WOOD SHALL BE SHREDDED OR SCREENED AS NECESSARY TO THE SPECIFIED DIMENSIONS TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SWEEPING OR SHOVELING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: WHEN JURISDICTIONS HAVE MORE RESTRICTIVE BMP CRITERIA FROM WHICH SUBMISSIONS NORMALLY SCHEDULE WITH LOCAL JURISDICTIONS AND THE MANUFACTURER'S RECOMMENDATIONS TO ENSURE MEDIA SHOULD BE USED WHERE APPROPRIATE AND EFFECTIVE.

2 C016 VEHICLE TRACKING CONTROL

Cushing Terrell
[redacted]
[redacted]

Tires LES SCHWAB

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

7105 OLD MERIDIAN RD.
FALCON, CO

LES SCHWAB TIRE CENTER

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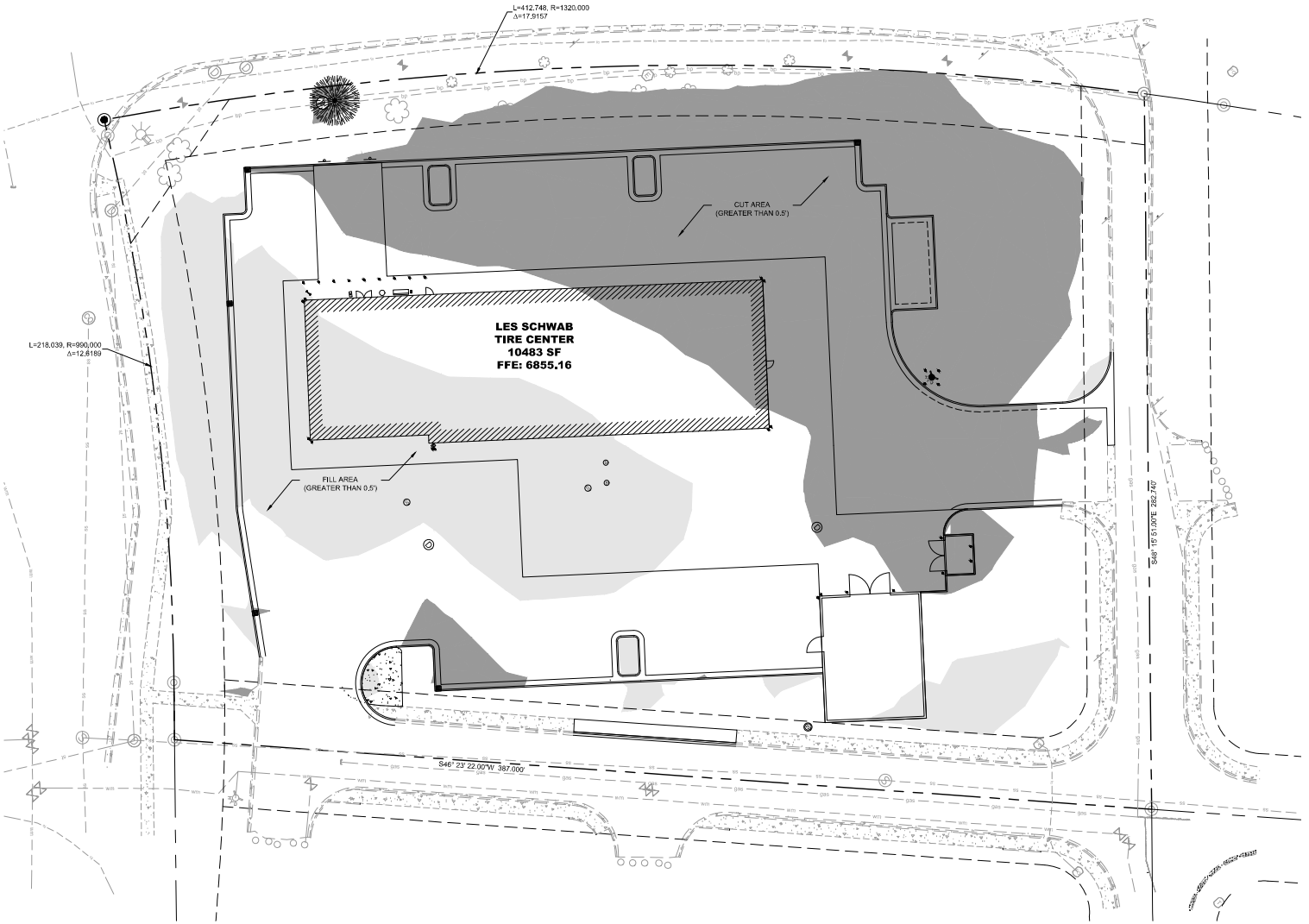
SITE DEVELOPEMENT PLANS

04.16.2021
DRAWN BY | WALKER
CHECKED BY | GRAHAM
REVISIONS
-

GESC DETAILS

C016



1 C017 CUT FILL GESC EXHIBIT

NORTH

0 10 20 40

SCALE: 1" = 20'

4/16/2021 10:00 AM | L:\LesSchwab\files\LSCO_20FALBIM\CAD\Civil\LSCO_20FAL_C017.dwg

Cushing Terrell

[redacted]

Tires LES SCHWAB

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

7105 OLD MERIDIAN RD.
FALCON, CO

LES SCHWAB TIRE CENTER

COLORADO LICENSED ZACHARIAH W. WALLKER 38259 PROFESSIONAL ENGINEER

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SITE DEVELOPEMENT PLANS

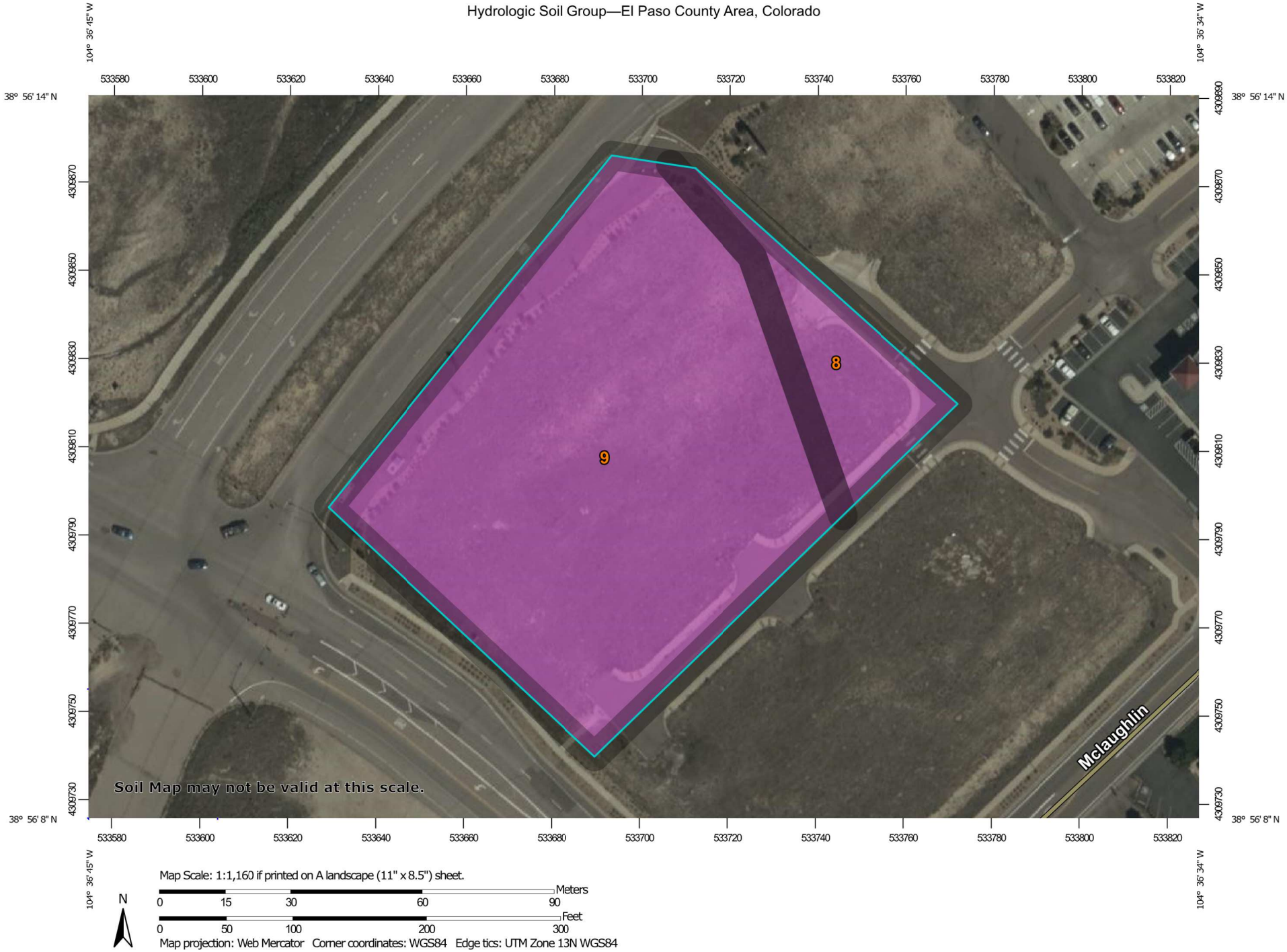
04.16.2021
DRAWN BY | WALLKER
CHECKED BY | GRAHAM
REVISIONS
-

CUT / FILL GESC EXHIBIT

C017

Cushing Terrell

APPENDIX C: WEB SOIL SURVEY



Map Scale: 1:1,160 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 18, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 11, 2018—Oct 20, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
8	Blakeland loamy sand, 1 to 9 percent slopes	A	0.3	13.1%
9	Blakeland-Fluvaquentic Haplaquolls	A	2.2	86.9%
Totals for Area of Interest			**2.5**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher