STORMWATER MANAGEMENT REPORT FOR HOMESTEAD AT STERLING RANCH FILING NO. 2

Prepared For:

Sr. Land, LLC

20 Boulder Crescent Suite 201 Colorado Springs, CO 80903

Contractor Information .	
Qualified Stormwater Manager	•
1	

Prepared By:
JR Engineering, LLC

5475 Tech Center Drive, Suite 235 Colorado Springs, CO 80919 719-593-2593

March 24, 2021 Project No. 25188.00 City Project No. CDR-20-012



Engineer's Certification

This Grading, Erosion, and Sediment Control Report was prepared under my direction and supervision, and is correct to the best of my knowledge and belief. If such work is performed in accordance with the Grading and Erosion Control Plan, the work will not become a hazard to life and limb, endanger property, or adversely affect the safety, use, or stability of a public way, drainage channel, or other property.

Mike Bramlett, Colorado P.E. 32314

For and On Behalf of JR Engineering, LLC

Date

Developer's/Owner's Certification

The owner will comply with the requirements of this Grading, Erosion, and Sediment Control Report including temporary BMP inspection requirements and final stabilization requirements. I acknowledge the responsibility to determine whether the construction activities outlined in this report require Colorado Discharge Permit System (CDPS) permitting for Stormwater discharges associated with Construction Activity.

Name of Owner/Developer

Authorized Signature

Date



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Introduction – Homestead at Sterling Ranch Filing NO. 2

This document is the "Storm Water Management Plan for Homestead at Sterling Ranch Filing No. 2 – Colorado Springs." It has been prepared to meet the regulatory requirements of the County of El Paso, the Colorado Department of Health - Water Quality Control Division, and to satisfy the provisions set forth by the Colorado Water Quality Control Act and Federal Water Pollution Control Act.

Project Description

The Homestead at Sterling Ranch Filing No. 2 is an installation of Sand Filters along the western side of Sand Creek drainage basin. It includes proposed 12 inch storm HDPE pipe as well as proposed 15 inch storm HDPE. Also, grading will be performed after installation of Sand Filter. All practical practices for erosion control will be utilized during construction.

Site Description

The site is currently being designed to accommodate approximately 264 single-family residential lots and development is to be completed in two phases (totaling approximately 88 acres). The project site is located to the south of existing developments near the southeast intersection of Vollmer Road and Briargate Parkway. Refer to Appendix A for the vicinity map. The site is comprised of residential back yards with landscaping or grass and native grasses along the Sand Creek that generally slope(s) downward to the east at 3 to 8% towards the Sand Creek tributary basin.

Soil characteristics are comprised of mostly pring coarse sandy loam, 3 to 8% slopes. Refer to the soil survey map in Appendix B for additional information.

There are no major drainage ways on the site, although a tributary to the Sand Creek basin is immediately to the east of the site. Currently, Kiowa Engineering Corp. is performing studies and plans to address Sand Creek stabilization.

There are no known irrigation facilities located on the project site.



Existing Site Conditions

The existing site is developed with existing trails along the Sand Creek drainage basin. Slopes ranging from 3 to 8% and is covered by sparse native grasses, trees, shrubs, and vegetation. Vegetative cover on the site is estimated to be 70% and was confirmed by visual inspection.

Receiving Waters

The site lies within the Sand Creek Drainage Basin based on the "Sand Creek Drainage Basin Planning Study" (DBPS) completed by Kiowa Engineering Corporation in January 1993, revised March 1996. The Sand Creek Drainage Basin covers approximately 54 square miles and is divided into major sub-basins.

The Sand Creek DBPS assumed the Homestead North at Sterling Ranch property to have a "large lot residential" use for the majority of the site. However, the proposed Sterling Ranch master plan is a mix of; school, multi-family, single-family, and commercial land uses, resulting in higher runoff. The site generally drains from north to south consisting of rolling hills. Currently, the site is used as pasture land for cattle. Sand Creek is located east of the site running north to south. This reach of drainage conveyance is not currently improved. There are a few stock ponds within the creek channel used for cattle watering. Currently, Kiowa is performing studies and plans to address Sand Creek stabilization adjacent to the site.

There are no known streams that cross the project site.

Adjacent Areas

The project lies west of the Sand Creek drainage basin. The project is adjacent to Sterling Ranch Filing No. 1 REC No. 218714151 located west of the project boundaries. To the Southwest of the project boundaries, is Sterling Ranch Filing No. 1 REC No. 218714151. Also, major roadways that are adjacent to the project are Vollmer Road and Briargate Parkway.

Soils

The site is comprised of a major amount of pring coarse sandy loam, 3 to 8 percent slopes, which are classified as a Hydrologic Group B soil by the NRCS. Soils Group B is defined as 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. A NRCS soil survey map is presented in Appendix A.

Description of Potential Pollutants

Proposed construction activities are not anticipated to generate any non-stormwater discharge.

- Concrete washout shall be placed on the site.
- Dewatering is not expected for the site.

Soil Borings/Tests and Groundwater

Currently no soil boring tests or groundwater tests have been made for this project.

Areas and Volume Statement

The Homestead at Sterling Ranch Filing No. 2 site consists of 29.658 acres. However, only the area near the back of the lots will be disturbed with the proposed improvements. The total estimated area of disturbance will be 2.5 acres. The construction of the sand filters will require approximately 60 CY of fill, 1862 CY of cut, and a net amount of 1802 CY of cut.

• GEC Plans - Refer to the attached plans for locations of BMPs and BMP Details including installation, maintenance, and inspection requirements.

Stormwater Management Controls

SWMP Administrator

The SWMP Administrator will be determined upon selection of the general contractor. The SWMP Administrator shall be the individual(s), position, or title who is responsible for developing, implementing, maintaining, and updating the SWMP. The activities and responsibilities of the administrator shall address all aspects of the facility's SWMP.



Erosion and Sediment Control

Erosion and sediment control measures that will be used during the project are as follows:

Structural Practices

Silt Fence

Purpose:

- To act as a barrier to interrupt runoff to allow sediment to settle out during construction operations.
- Used to filter shallow sheet flow.

Typical Applications:

- Perimeter control on lots or tracts
- Perimeter control around dirt stockpiles
- Utilized as a temporary feature.

Inlet Protection

Purpose:

• Intercept and filter sediment laden runoff and prevent it from entering storm sewer systems.

Typical Applications:

- For any type of storm drain inlet in streets, paved areas, or landscaped areas.
- Utilized as a temporary feature.

Curb Sock

Purpose:

• Sock filled with rock and debris, intended to serve as a hydraulic barrier.

Typical Applications:

- For use as a hydraulic barrier in streets at handicapped sidewalk ramp locations, back of walk locations
- To slow and filter runoff on slopes or in swales
- Perimeter protection for a stockpile



Straw Bale Barrier

Purpose:

- To act as a barrier to interrupt runoff to allow sediment to settle out during construction operations.

Typical Applications:

- Used in swales to prevent erosive velocities from developing

Erosion Control Blanket

Purpose:

- To protect soil from impact of precipitation and overland flow, and retain moisture for vegetation establishment.

Typical Applications:

- Can be installed on seeded areas for temporary use or can utilized for permeant use on landscape areas.

Vehicle Tracking Control

Purpose:

• to reduce the amount of sediment leaving an area via vehicle's tires

Typical Applications:

- long-term stockpiles (30days+)
- construction access points
- on-site trailer parking/access

Stabilized Staging Area

Purpose:

• Designated onsite construction area for trailers, onsite construction parking, and material storage area.

Typical Applications:

- Material Storage
- Onsite Construction parking
- Temporary construction trailer parking



Non-Structural Practices

Temporary/Permanent Seeding

Purpose:

• To provide stabilization of disturbed soil

Typical Applications:

- Any disturbed areas
- Stockpiles
- Slopes

Mulching

Purpose:

 Apply to disturbed soils to reduce erosion by protecting bare soil from rainfall impact, increase infiltration, and reduce runoff.

Typical Applications:

- Use in conjunction with temporary or permanent seeding.
- Use as a means of temporary stabilization for areas that cannot be reseeded due to seasonal constraints
- Slopes

Potential Pollutant Sources

Potential pollution sources include; debris, emissions from construction vehicles, possible refueling incidents and accidental materials or chemical spills. Specific pollution components and their solutions are listed below:

• All exposed and stored soils – all exposed soils will be seeded and mulched upon completion of construction within the vicinity. Silt fence will be utilized to contain sediment deposited by runoff until seeding can take. Silt fence or a similar barrier should be installed as needed around long-term stockpiles (30 days+). Stockpiles that exceed 8 to 10 feet in height may require additional erosion protection by way of an additional row of silt. Vehicle Tracking Control should be installed at access points to minimize sediment deposition from vehicles exiting the site.



- Vehicle tracking of sediments if sediment is tracked onto the street, a reasonable attempt shall be made to clean up sediment and mud deposits as soon as possible. A street sweeper may be used as necessary. Vehicle Tracking Control shall be installed at all vehicular access points to the site.
- Vehicle Tracking Control The contractor will be responsible for placement of vehicle tracking control measures at the locations of site entrances. Vehicle tracking control measures include, but are not limited to: minimizing site access; street sweeping or scraping; tracking pads; graveled parking areas; wash racks; and contractor education. As well, if sediment is tracked onto the street, a reasonable attempt will be made to clean up any large deposits as soon as possible and if necessary, a street sweeper may be used.
- Management of contaminated soils appropriate measures will be taken to cleanup the
 cause of the contaminated soil. All contaminated soils must be disposed of offsite in an
 appropriate manner.
- Loading and unloading operations should a spill occur during a loading or unloading operation it shall be cleaned up immediately and the on-site personnel shall be contacted.
- Outdoor storage activities materials with potential to contaminate stormwater runoff
 will be stored so as to prevent/minimize exposure of toxic materials. Storage areas
 containing toxic materials shall be designated accordingly. Onsite areas used for material
 storage that are exposed to the elements, namely precipitation, shall be inspected for
 evidence of, or the potential for, pollutants entering the drainage system.
- Vehicle, equipment maintenance, and fueling all designated fueling and maintenance areas shall be located a minimum of 100 feet from any drainage course whenever possible. If the fueling area is located on a pervious surface, the area shall be covered with a non-pervious lining so as to prevent soil contamination by way of infiltration. Any spillage shall be cleaned up immediately.



- Significant dust or particulate generating processes dust-reducing measures will be taken during construction until appropriate seeding and mulching can be placed. A water truck capable of misting soils susceptible to wind dispersion may be used.
- Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc. oil, grease, coolants, etc. that leak onto the soil or impervious surface should be cleaned up as soon as possible and on-site personnel notified.
- On-site waste management practices (waste piles, liquid wastes, dumpsters, etc.) dumpsters will be utilized as needed to remove trash from the site. Any waste material found on-site or generated by construction activities will be disposed of in a manner that prevents polluting of storm water discharges. In the event that waste is to be stored on-site, it shall be in an area located a minimum of 100 feet from any drainage course whenever possible. Whenever waste is in a porous container, it shall be in an area enclosed by a 12-inch high compacted earthen ridge (or equal measure). If the enclosed waste area is located on porous soil, the area shall be covered with a non-porous lining to prevent soil contamination. Whenever precipitation is predicted, the waste shall be covered with a non-porous cover, anchored on all sides to prevent its removal by wind, in order to prevent precipitation from leaching out potential pollutants from the waste.
- Non-industrial waste sources such as worker trash and portable toilets all portable toilets should be kept a minimum of 50 feet from a storm drain inlet or drainage course and secured to the ground.
- Landscaping Materials may be stored temporarily in the street until work is completed. If top-soil, mulch, or similar material is to be kept in the street or gutter over-night, containment measures should be taken to minimize any pollution discharge potential.
- Other areas or procedures where potential spills can occur no other areas have been identified at this time.



Other Potential Pollution

Exact location of the following potential pollution sources will be determined and documented during construction.

- Concrete washout The contractor will be responsible for placement of concrete washout
 area. They will be placed such that concrete washout activities do not result in the
 discharge of materials, or contribute pollutants to stormwater runoff.
- Batch Plant A dedicated asphalt or concrete batch plant is not planned to be utilized. If
 plans change and at such time a batch plant is used it will be the responsibility of the
 contractor to update the SWMP report and plans in addition to receiving/obtaining all
 necessary permits.
- Concrete truck/equipment washing, including the concrete truck chute and associated fixtures and equipment concrete truck/equipment washing will take place in a designated concrete wash-out area. Said area shall be placed a minimum of 100' from any drainage/water sources and shall serve to contain wash water generated by equipment washing. Remnants of concrete and cement that are left behind at the concrete washout area(s) shall be transported and disposed of offsite.

Material Handling, and Spill Prevention and Response

There will be a designated individual on-site who will receive training on what to do when a hazardous spill occurs. There will be a small spill kit on-site containing clean-up supplies, emergency contact information, and report(s) to document occurrences.

Spills must be cleaned up as soon as possible and contaminated soil/materials must be properly disposed of off-site.



Timing Schedule

Development of the project site will follow standard construction sequencing characteristic of site construction. The anticipated start date is Spring 2021. The anticipated date of completion and final stabilization is Summer 2021. Sequencing of development will commence in the following manner:

- 1. Installation of initial temporary erosion control measures as noted on the plans. Implementation of BMPs shall precede initial construction operations. The time schedule may vary depending on plan approvals and weather. The initial BMP's for this project shall include silt fencing as shown on the plans, vehicle tracking control at the staging entrance, a stabilized staging area, a concrete washout area, and installation of inlet protection around existing inlets that are subject to debris or sediment deposition.
- 2. Site clearing and grading will occur within the project limits.
- 3. Subgrade preparation and compaction for hardscaped areas.
- 4. Installation of underground utilities and connections to main lines.
- 5. Installation of site landscaping.

Removal of temporary erosion controls and final site cleanup should not occur until site vegetation is fully restored. Once full site stabilization has been achieved, all temporary BMP's should be removed and final site cleaning performed.

Permanent Stabilization

Seeding and mulching will be utilized to replace vegetation in areas where existing ground cover was disturbed. Seeding and mulching shall be per City of Colorado Springs requirements (See Drainage Criteria Manual Volume 1, Chapter 14. Final Stabilization will be completed once construction activities have ceased and 70% of the vegetative cover for the site has been reinstated, as compared to pre-disturbance levels, or once equivalent permanent erosion control measures have been implemented (pavement, concrete, etc.).



Owner Inspection & Maintenance of Construction BMP'S

All necessary BMPs will be installed and maintained until the completion of the project. Long term stormwater management may begin once final stabilization of the site has been implemented.

Inspections of erosion & sediment control measures will occur every 14 days and within 24 hours of any precipitation or snowmelt 'event' that incurs runoff. The operator shall keep a record of inspections. Uncontrolled release of mud, muddy water, or measurable quantities of sediment found off the site shall be recorded with a brief explanation as to the measures taken to prevent future releases as well as any measure taken to clean up the sediment that has left the site. Any items in need of correction must occur as soon as possible to ensure continuous implementation of BMPs. Based on the results of the inspection and the description of potential pollutant sources, pollution prevention and control measures shall be revised and modified as appropriate as soon as practicable after such inspection.

All temporary and permanent erosion and sediment control facilities shall be maintained and repaired as needed to assure continued performance of their intended function. Silt fences will require periodic replacement. Sediment traps and sediment basins shall be cleaned when accumulated sediments equal approximately one-half of trap storage capacity. Also, refer to the attached GESC Plans for additional installation, inspection, and maintenance requirements.

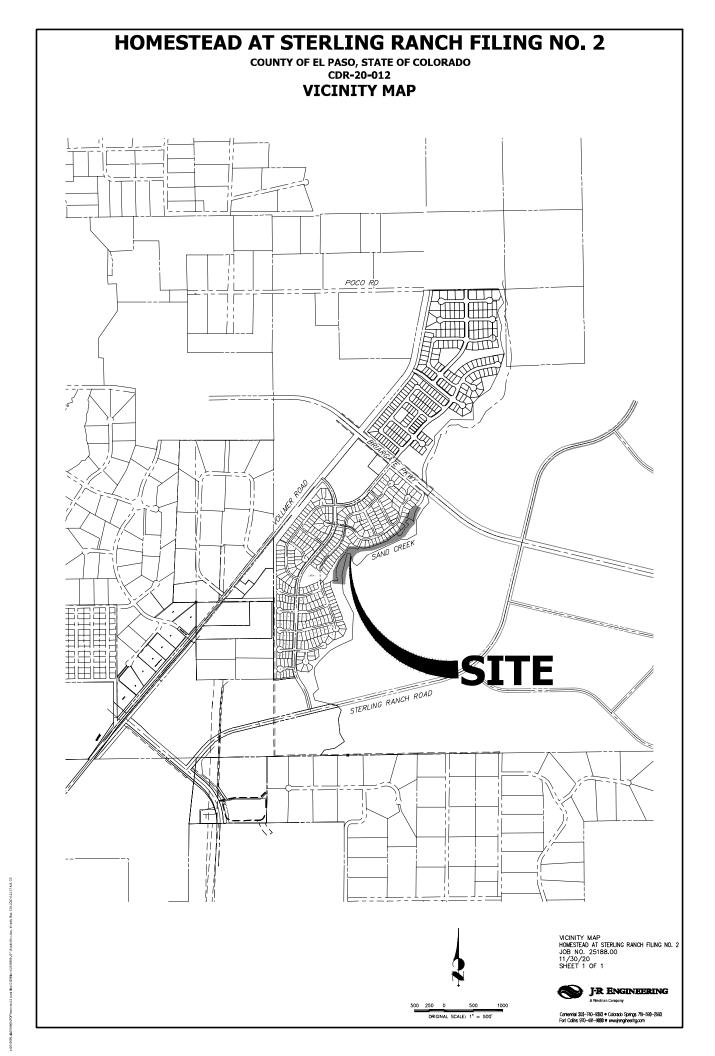
The contractor shall maintain records of all inspection reports, including: signed inspection logs, at the project site. Site inspection records shall include the following: inspection date, name and title of personnel making the inspection, location of discharges of sediment or other pollutants from the site, location(s) of BMPs in need of maintenance, location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location, locations(s) where additional BMPs are needed that were not in place in time of the inspection, and deviation from the minimum inspection schedule. The permittee shall document inspection results and maintain a record of the results for a period of 3 years following expiration or inactivation of permit coverage.

This project does not rely on control measures owned or operated by another entity.

STORMWATER MANAGEMENT REPORT HOMESTEAD AT STERLING RANCH FILING NO. 2

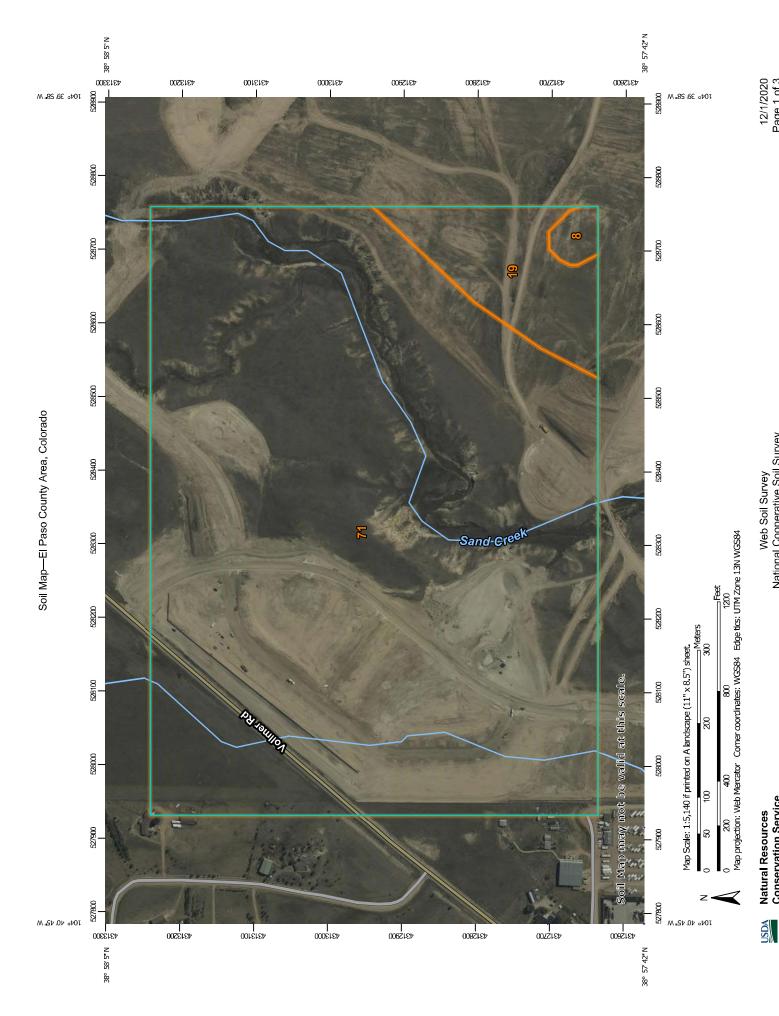


APPENDIX A - VICINITY MAP





APPENDIX B - SOILS MAPS



MAP LEGEND

Special Line Features Streams and Canals Interstate Highways Aerial Photography Very Stony Spot Major Roads Local Roads **US Routes** Stony Spot Spoil Area Wet Spot Other Rails Water Features **Fransportation** Background 8 ŧ Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Miscellaneous Water Soil Map Unit Lines Closed Depression Marsh or swamp Perennial Water Mine or Quarry Special Point Features Rock Outcrop **Gravelly Spot** Borrow Pit Gravel Pit Lava Flow Clay Spot Area of Interest (AOI) Blowout Landfill Soils

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.

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

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 distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts 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 Version 18, Jun 5, 2020 Survey Area Data:

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

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.

Severely Eroded Spot

Saline Spot Sandy Spot Slide or Slip

Sinkhole

Sodic Spot

Map Unit Legend

	_		
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8	Blakeland loamy sand, 1 to 9 percent slopes	1.0	0.8%
19	Columbine gravelly sandy loam, 0 to 3 percent slopes	8.9	7.1%
71	Pring coarse sandy loam, 3 to 8 percent slopes	114.5	92.0%
Totals for Area of Interest	-1	124.4	100.0%



APPENDIX C - GEC PLANS AND DETAILS

HOMESTEAD AT STERLING RANCH FILING NO. 2

COUNTY OF EL PASO, STATE OF COLORADO

AMENDED GRADING AND EROSION CONTROL PLANS: REAR LOT SAND FILTER RELOCATIONS

CDR-20-012



SR LAND, LLC
20 BOULDER CRESCENT
SUITE 201
SOLORADO SPRINGS, CO 809
JAMES F. MORLEY
(719)-471-1742

0608 00

BRADING AND EROSION CONTROL STANDARD NOTES

- STORWWATE DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THERATEN TO CAUGE POLLUTION, CONTAMINATION, OR DESCRAACHORY OF STATE WATERS, ALL WORK AND EACH DISTURBANCE SHALL BE DONE IN A MANNER THAT MAINZES POLLUTION OF ANY OH-SITE OR OFF-SITE WATERS, INCLUDION.
- NOTIFICATION OF ATTHEOGRAPHED IN THESE PLANS IN WORST OR ORGANIC SPRESSANTIANT, ALL DISCAM, AND CONSTRUCTOR REALTED TO MINISTRUCTURE OF THE USE OF THE USE
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- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. TOTATION LEASURES TOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AFEAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
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- 4. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SUFFACE RUNGIF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
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- WASTE MATERIALS SHALL NOT BE TRUMDRARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPORTED PLACE STATEMEN, EACH CONTITY ENGINEERING IF DEEDLED INCESSARY BASED ON SPECIF CORDITIONS AND ORGANISMICS.
 - THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDMENT, SOL, AND ASSIDENT ACCOUNTER, AND STORMWATER APPLIETBANCES AS ARD THAT WAS ACCOUNTED APPLIETBANCES AS A RESULT OF SITE DEVELOPMENT. TRACKING OF SOURS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED, MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF MANEDIATELY.
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- NO CHEMICAL(S) HAWNG THE POTENTIAL TO BE RELEASED IN STORMWITTER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CABILIAL(S) IS CARAITED IN WITHING FOR THE EQUA ADMINISTRATION, IN GRANITION HAND MAYINGHOME AND BE REQUIRED.
 - . BULK STORAGE OF ALLONED PETROLEUM PRODUCTS OR OTHER ALLONED UDUID CHEMICALS IN EXCESS OF 56 GALLONS SHALL REQUIRE A ADELONIE SCOWDARY OFFINAMENT PROTECTION TO COMINA ALL PULLS ONET ROUT OT PREPART ANY SPILLED MATERIALS FROM ENTERNAS STATE WHERS, ANY SHEFALGE OR SUBSINEACE, STORAU PRANAGE SYSTEM, OR OTHER FACULTIES.
- 23. NO PERSON SMALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- As ower Professions who new Actions sour, cover with the condown with country covering. As writted as 60% and new Clean with the Collect Asia, in Adomno 10 the Engineering of the Land Deficiency Code, Doy Moules 1 and The Con-propriate Collection and Collection of the Collection
 - 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON STE DURING EARTHWORK OPERATIONS AND SHALL BE UTILZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND. 28. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING INC. ON JUNE 25, 2020 AND SHALL BE CONSIDERED A PAR OF THESE PLANS.
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COGRADO DEPARMENT OF PUBLIC HEALTH AND ENVIRONMENT WITHOUT COMPLEX DIVISION WITHOUT COMPLEX DIVISION ASSOCIATION RECURS OF SERVES SOUTH DEPARTS, COSEX-E1-SSO

HOMESTEAD AT FILING NO. 2 VICINITY MAP ALEMONDO SERVICION SECOND PARCY FLAC

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS SHEET INDEX 1 - COVER SHEET 2 - LEGENO 3-4 - CALANIG EROSION CONTROL PLAN 5-8 - DETAILS

CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL ENSITING UTILITIES, WETHER SHOWN ON THE PLANS OR NOTIFICED RESPONSIBLE LOCATION OF DISTRICTION OF DISTRICTION OF DISTRICTION OF DISTRICTION CALL BIT TO CONTRACTOR PRIOR TO CONSTRUCTION CALL BIT TO CONTRACTOR PRIOR TO CONTRACTOR PRIOR TO CONTRACTOR PRIOR TO CONSTRUCTION CALL BIT TO CONTRACTOR PRIOR TO CONTRACTOR

ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL WEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES I AND 2, AND THE EL PASO COUNTY ENCINEERING CRITERIA MANUAL.

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 - CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION METING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR
 - IT IS THE CONTRACTOR'S RESPONSBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JARSDICTIONAL AGENCES TO OBTAIN ALL REQUIRED PERMITS, BLUDIONE BLUDIONED TOOP AND THE PROSE OF ALL STATES ALLATY CONTRACT PERMIT SLADY CROSPE, REGIONE BLUDIONE TOOP AND PERMITS. AND COUNTY AND STATE FOUNDER, DUST REMAINS DESCRIBED AND THE PERMIT, LIS, AND COUNTY AND STATE FOUNDER, DUST REMAINS.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECHI STANDIARDS. PAYEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PED PRIOR TO PLACEMENT OF CURB AND CUTTER AND PAYEMENT. CONTRACTOR SHALL NOT DEVATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCONERY OF ANY ERRORS OR INCONSISTENCES.
- 11. SIGHT VISIBLITY TRIANGLES ARE IDDNIFFED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS, OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOMLINE ARE NOT ALLOMED IN SIGHT TRIANGLES. 10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
 - 12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- 13. CONTRACTOR SHALL OBTIAN ANY PERMITS PEQUIPED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLIDING WORK MITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTON SHALL REJUNN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTE). THE OMENER/DEPLOPER SHALL BETAN WRITTEN THE REQUIRED, FROM ADJOINNO PROPERTY DIMERIES TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

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EL PASO COUNTY STATEMENT

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DATE OWNER/DEVELOPER STATEMENT JENNIFER IRVINE, P.E.

, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

MANES F. MORLEY

DATE

SR LAND, LLC 20 BOULDER CRESCENT, SUITE 201 COLORADO SPRINGS, CO 80903

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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF

HOMESTEAD

JOB NO. 25188.00

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SR LAND, LLC
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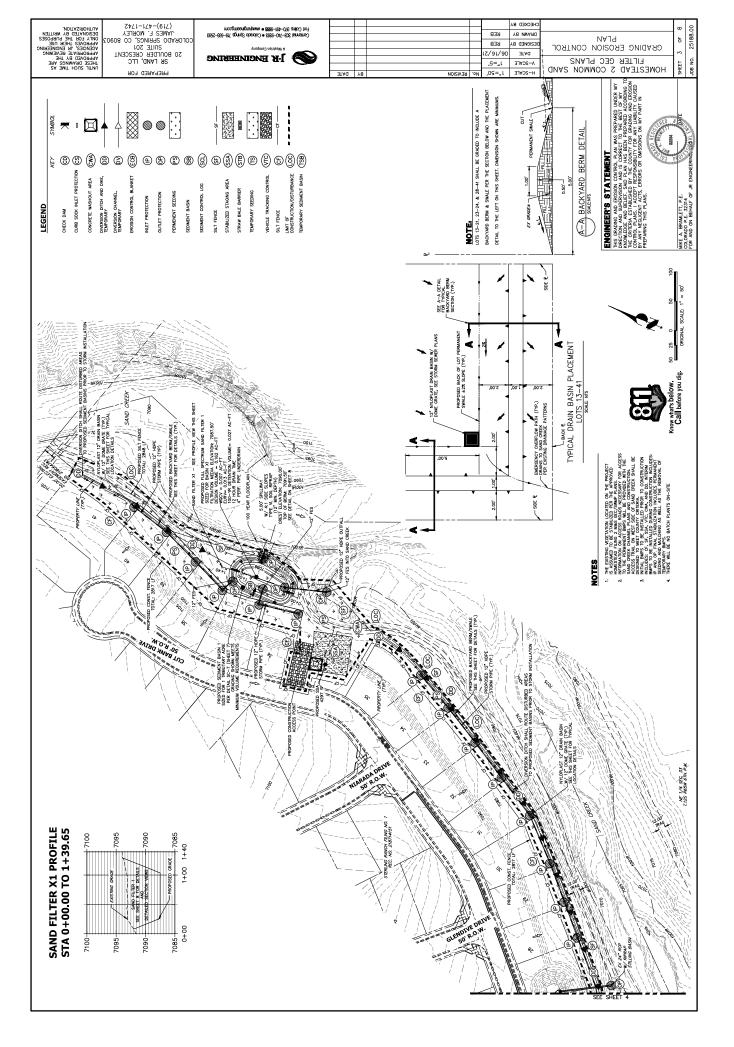
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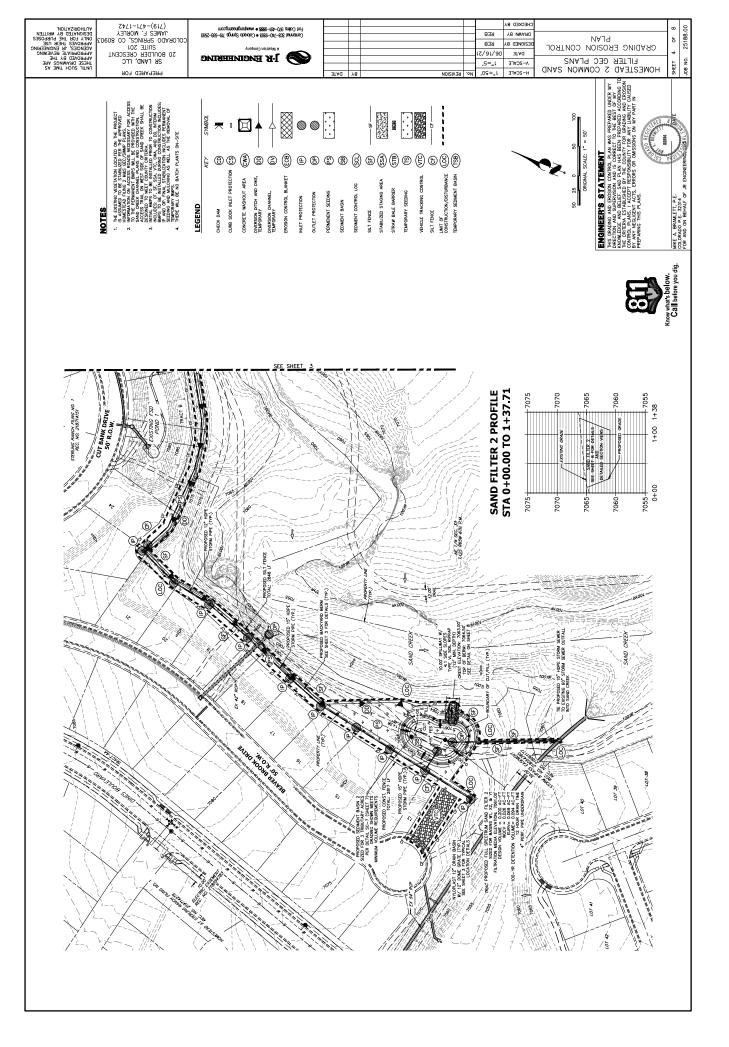
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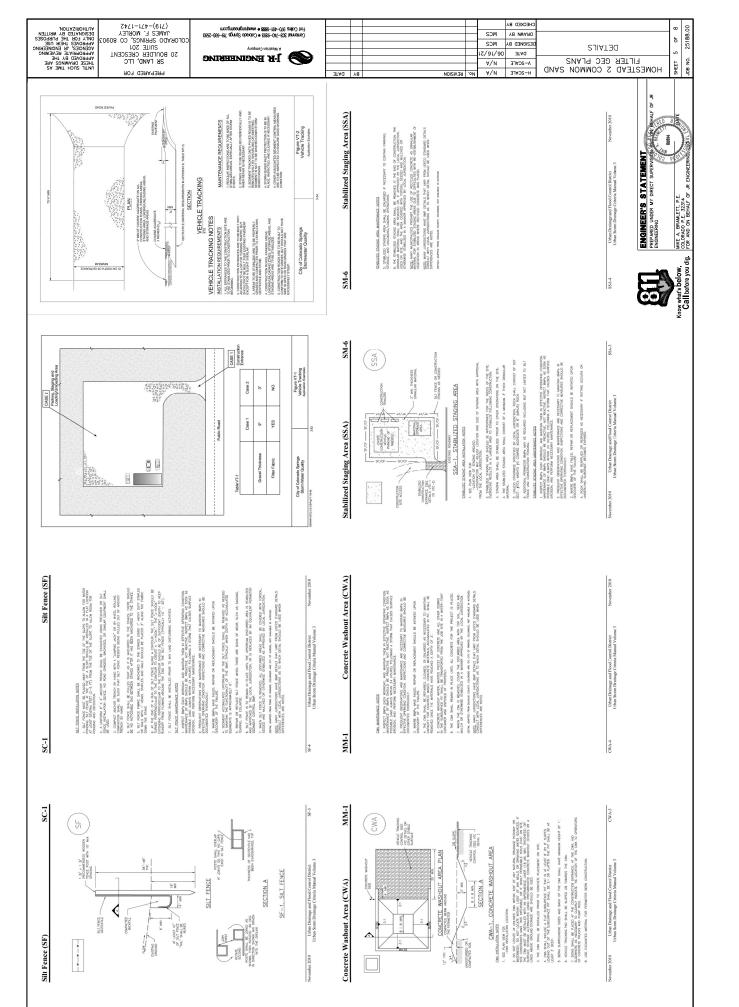
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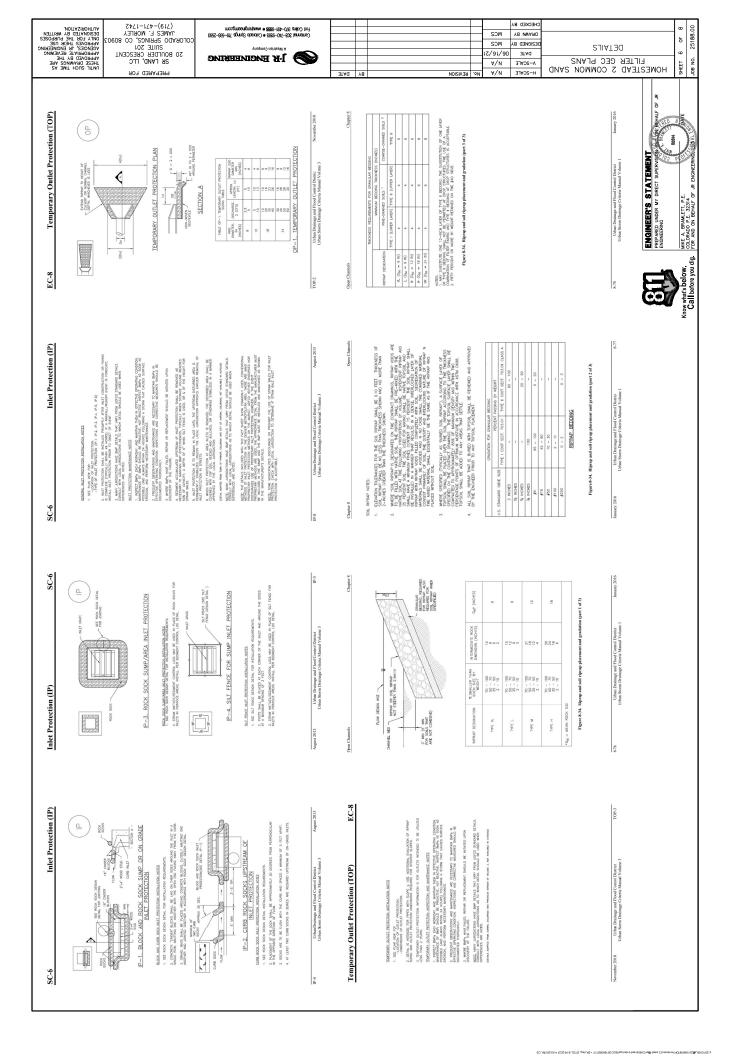
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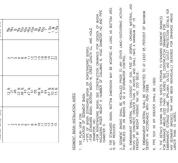
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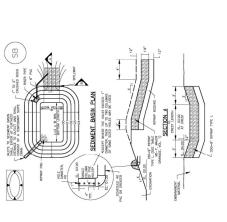
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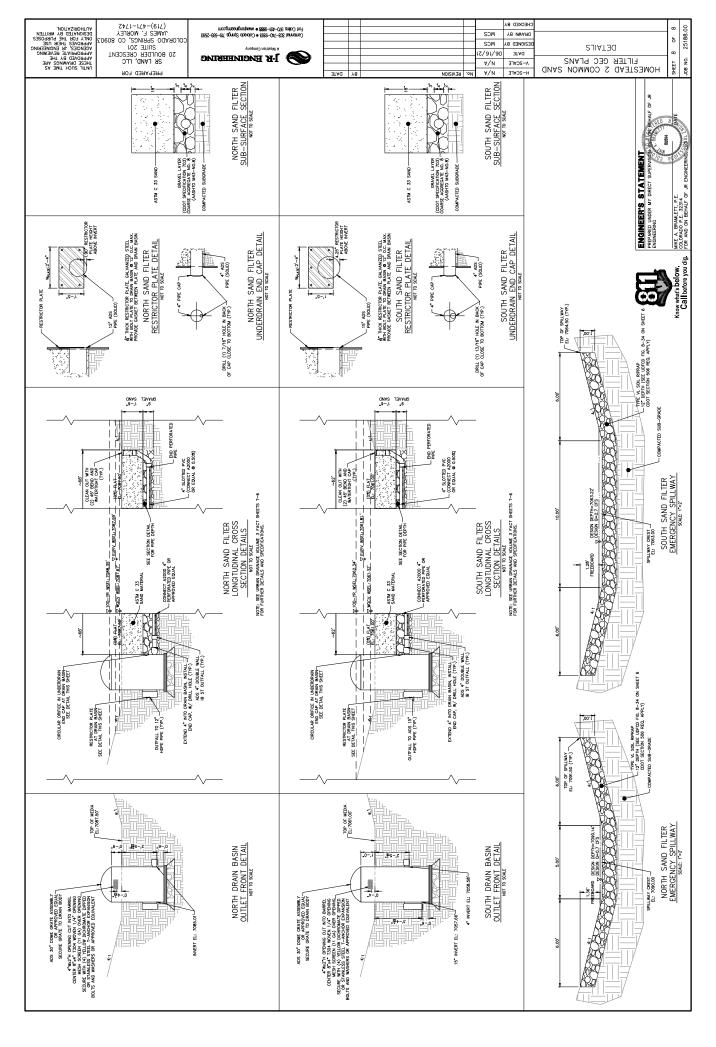


Sediment Basin (SB)





SB-6





APPENDIX D - SWMP CHECKLIST



EL PASO COUNTY STORMWATER MANAGEMENT PLAN CHECKLIST

EPC Project Number:

Revised: July 2019					
1. <u>S</u>	TORMWATER MANAGEMENT PLAN				
1	Applicant (owner/designated operator), SWMP Preparer, Qualified Stormwater Manager, and Contractor Information. (On cover/title sheet)				
2	Table of Contents				
3	Site description and location to include: vicinity map with nearest street/crossroads description				
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)				
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				
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				
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				
8	Soil erosion potential and impacts on discharge that includes a summary of the data used to determine soil erosion potential				
9	A description of existing vegetation at the site and percent ground cover and method used to determine ground cover				
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				
11	Material handling to include spill prevention and response plan and procedures				
12	Spill prevention and pollution controls for dedicated batch plants				
13	Other SW pollutant control measures to include waste disposal and off-site soil tracking				
14	Location and description of any anticipated allowable non-stormwater discharge (ground water, springs, irrigation, discharge covered by CDPHE Low Risk Guidance, etc.)				
15	Name(s) of ultimate receiving waters; size, type and location of stormwater outfall or storm sewer system discharge				
16	Description of all stream crossings located within the project area or statement that no streams cross the project area				



EL PASO COUNTY STORMWATER MANAGEMENT PLAN CHECKLIST

EPC Project Number:

	Revised: July 2019	Applicant	EPC
17	SWMP Map to include:		
17a	construction site boundaries		
17b	flow arrows to depict stormwater flow directions		
17c	all areas of disturbance		
17d	areas of cut and fill		
17e	areas used for storage of building materials, soils (stockpiles) or wastes		
17f	location of any dedicated asphalt / concrete batch plants		
17g	location of all structural control measures		
17h	location of all non-structural control measures		
17i	springs, streams, wetlands and other surface waters, including areas that require maintenance of pre-existing vegetation within 50 feet of a receiving water		
18	Narrative description of all structural control measures to be used. Modifications to EPC standard control measures must meet or exceed County-approved details		
19	Description of all non-structural control measures to be used including seeding, mulching, protection of existing vegetation, site watering, sod placement, etc.		
20	Technical drawing details for all control measure installation and maintenance; custom or other jurisdiction's details used must meet or exceed EPC standards		
21	Procedure describing how the SWMP is to be revised		
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.)		
23	Specification that final vegetative cover density is to be 70% of pre-disturbed levels		
24	Outline of permit holder inspection procedures to install, maintain, and effectively operate control measures to manage erosion and sediment		
25	Record keeping procedures identified to include signature on inspection logs and location of SWMP records on-site		
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. <u>Al</u>	DDITIONAL REPORTS/PERMITS/DOCUMENTS		
а	Grading and Erosion Control Plan (signed)		
b	Erosion and Stormwater Quality Control Permit (ESQCP) (signed)		



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b

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Review Engineer:

Review Engineer

EL PASO COUNTY STORMWATER MANAGEMENT PLAN CHECKLIST

EPC Project Number: CDR-20-012 Revised: July 2019 Applicant EPC 3. APPLICANT COMMENTS 4. CHECKLIST REVIEW CERTIFICATIONS Engineer of Record: The Stormwater Management Plan was prepared under my direction and supervision and is to the best of my knowledge and belief. Said Plan has been prepared according to the established by the County and State for Stormwater Management Plans. Engineer of Record Signature

The Stormwater Management Plan was reviewed and found to meet the checklist requirements

Date

except where otherwise noted or allowed by an approved deviation request.