## JUDGE ORR ROAD RV PARK & STORAGE DEVELOPMENT

# GRADING, EROSION CONTROL AND STORMWATER QUALITY REPORT (SWMP)

Does not match the applicant in the ESQCP form. Revise one or the other.

Prepared For:

Prairie Stone, LLC
9476 Dakota Dunes Lane
Peyton, CO 80831-4138

Prepared By:
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ADP Project No. 16030 Revise to "# PPR-16-040" May 18, 2018

PCD Project #16-040



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#### PROJECT DESCRIPTION

#### **General Location**

The Judge Orr Road RV Park & Storage project consists of 39.9 acres located along Judge Orr Road just east of US 24 and approximately two miles northeast of Falcon, Colorado. The project is located within the previously approved Meadowlake Commons Master Plan area. The site is further described as being located in central El Paso County within the Southwest Quarter of Section 33, Township 12 South, Range 64 West of the 6<sup>th</sup> Principal Meridian, El Paso County, Colorado.

The proposed development lies within the Haegler Ranch Drainage Basin Planning Study area, prepared by URS Corporation in 2007. It is also included in the Meadowlake Commons MDDP, prepared by Springs Engineering in 2008. For this report, the existing flows for this project utilize the findings of the Meadowlake Commons MDDP and flows into the middle fork of Black Squirrel Creek.

#### SITE DESCRIPTION

#### **Existing Site Conditions**

The existing site is mostly undeveloped with a residence and a barn. The remainder of the site is vacant and covered with rangeland grasses with about 90% coverage. The existing impervious value is approximately 2%. The site does not contain any springs or irrigation systems.

#### Soils

The Soil Conservation Service (NRCS) soil survey for El Paso County has identified the soil type in this study area as follows:

Map Symbol No. Soil Name Hydrologic Soil Group
19 Columbine Gravelly Sandy Loam A

The soil erosion potential of this soil is slight to moderate.

#### **EROSION AND SEDIMENT CONTROL CRITERIA**

#### Areas and Volumes

The proposed site development shall require the construction of approximately 7,150 lineal feet of private roadways, 120 RV pads, gravel RV storage area and associated utilities. The site will be overlot graded with two (2) connections to Judge Orr Road. This will increase the estimated imperviousness to 36.5%.

Improvements shall include the construction of a detention/water quality basin on the property to account for the areas of the most disturbances. The total area of disturbance shall be about 30 acres. Construction activities shall consist of clearing, grubbing and grading for the new development. Approximately 60,000 cubic yards of cut and fill shall be moved. Disturbed and exposed areas of the site shall be seeded and mulched if construction activities cease for more than 30 consecutive days. The site shall also require the sedimentation basins listed below to handle the potential erosion.

#### **Erosion and Sediment Control Measures**

Erosion control and sediment prevention measures describe a wide range of management procedures, schedules of activities, prohibitions on practices, and other best management practices (BMP). BMPs also include operating procedures, treatment requirements and practices to control site runoff, drainage from materials storage, spills or leaks. Structural practices for this site include silt fences, straw bales, inlet protection, and vehicular tracking control. Erosion matting may be required on unstable slopes, if directed by the engineer. General descriptions of the BMPs to be used during the construction of this project are listed below. See the Erosion Control Plans for the specific type and location of each erosion and sediment control device required for this project.

#### Initial Stage

These BMPs shall be installed at the outset of construction, prior to the initial pre-construction meeting and any other land-disturbing activities. Initial controls are to be placed on existing grades but shall be based in part on proposed grading operations. The initial stage includes clearing, grubbing, overlot grading, and utility and other construction prior to paving operations.

#### **Temporary Stabilization**

Disturbed areas will be temporarily stabilized as soon as construction activities are completed. Seeding will be applied to completed areas within 14 days of completion.

#### **Vehicle Tracking Control**

A vehicle tracking control device will be installed at the construction entrance where the construction entrance intersects an existing paved private roadway.

#### Silt Fence

Prior to the start of construction, silt fence will be installed along the perimeter of all disturbed areas that are within the project site. Silt fence shall be placed as indicated on the plan drawing. Sediment shall be removed when depth exceeds one-fourth the height of the silt fence. The engineer may require additional silt fence as necessary to retard sediment transport on or off the project site.

#### **Outlet Protection**

Outlet protection at the water quality basin on the site will be provided to prevent erosion and scour of the water quality basin area by the concentrated flows gathered by the storm sewer system both during and after construction.

#### **Non-Structural Practices**

Upon completion of the grading, temporary seeding and mulching will be applied to all disturbed areas on and adjacent to the site. All seeding, fertilizers, and mulching shall conform to *El Paso County Engineering Criteria Manual*.

#### **Construction Timing**

The site will be graded to accommodate the proposed redevelopment items delineated previously. This project will be constructed in a single phase. Once construction begins, it will continue until the project is complete; therefore, construction phasing will not be necessary. The construction process will consist of grading (excavation and fill) activities, installation of utilities, paving, concrete placement, landscaping, and building construction. The general sequence for major construction activities will be as follows:

Establish limits of disturbance

- Install vehicle tracking control (VTC)
- Install silt fence
- Clear and grub the site
- Excavation and fill placement
- Install underground utilities
- Install inlet and outlet protection BMPs
- RV pad construction
- Paving
- Install permanent landscaping and irrigation,
- Remove temporary sediment pond and reshape for water quality basin
- Remove BMPs

To be fully effective, erosion and sediment control measures must be installed and phased with the construction activities. The vehicular tracking control device shall be installed at the entrance prior to the mobilization of construction equipment on-site. Prior to the clearing and grubbing of the entire construction area, localized clearing shall be performed for the placement of perimeter erosion control measures. Site clearing shall commence only after the perimeter erosion control measures are in place. Erosion control devices must be in place to reduce the potential of eroded excavated material entering the storm drainage system. Protection devices shall be placed during grading activities, in the appropriate areas, as indicated on the plan drawing that is located in the Appendix.

Anticipated starting and competition date: July 2, 2018 to September 1, 2018

Expected date on which the final stabilization will be completed: December 1, 2018

#### **Permanent Stabilization**

Disturbed areas shall be permanently stabilized as soon as construction activities are completed. Viable vegetative cover shall be established no later than one year from disturbance. Areas to be revegetated shall be treated with soil amendments to provide an adequate grown medium to sustain vegetation and shall match the existing 70 percent pre-disturbed vegetation cover.

The seedbed shall be well settled and firm, but friable enough that seed can be placed at the seeding depth specified. The seedbed shall be reasonably free of weeds. Soils that have been over-compacted by traffic or equipment, especially when wet, shall be tilled to break up rooting restrictive layers and then harrowed, rolled, or packed to prepare the required firm seedbed. Mulch shall be applied at a rate of two and one-half (2 ½) tons per acre and shall be spread uniformly, in a continuous blanket, after seeding is complete. Mulch shall be clean, weed and seed free, long-stemmed grass or hay, or long-stemmed straw of oats, wheat, or rye. At least 50 percent of mulch, by weight, shall be ten inches or longer. Mulch shall be spread by hand or blower-type mulch spreader. Mulching shall be started on the windward side of relatively flat areas or on the upper part of steep slope and continued uniformly until the area is covered. The mulch shall not be bunched. Immediately following spreading, the mulch shall be anchored to the soil by a v-type wheel land packer or scalloped-disk land packer designed to force mulch into the soil surface a minimum of three inches. All seeded areas shall be mulched after seeding on the same day as the seeding. The type of seed mix used for permanent vegetation shall utilize perennial grasses as delineated on the plans.

#### **Stormwater Management**

Identify in the

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sequence when the

sediment pond is

All developed stormwater will be routed through the EDB facilities to provide stormwater quality as delineated on the drawings.

#### Maintenance

All temporary and permanent erosion and sediment control practices shall be maintained and repaired as needed by the contractor throughout the duration of construction to assure that each BMP will function as intended. As required by the stormwater discharge permit, a weekly inspection of these items will be performed. In addition, all facilities must be inspected by the owner or the owner's representative following each heavy precipitation or snowmelt event that results in runoff, with maintenance occurring immediately after discovering a need.

Silt fence may require periodic replacement. All sediment accumulated behind the silt fence must be removed and disposed of properly when depth exceeds one-fourth the height of the silt fence. On-site construction traffic will be monitored to minimize the transport of sediment onto the proposed on-site streets, as well as onto adjacent city streets. The Owner, Site Developer, Contractor, and/or their authorized agents shall prevent loss of cut and fill material being transported to and from the site by taking appropriate measures. All mud and sediment tracked onto public streets shall be cleaned immediately. Road cleaning includes shoveling and sweeping activities.

Diversion ditches shall be kept clean and functional during construction. They shall be routinely checked on a weekly basis and cleaned if the height of sedimentation exceeds one-half its depth.

Inlet/outlet protection shall be inspected to ensure proper operation. Excess debris or sediment must be removed prior to final acceptance of the project.

The temporary sedimentation pond shall remain in place until such time as the major grading operations in the area are completed and the ground stabilized by either temporary or permanent measures. The ponds will be cleaned out periodically with depth of sediment at no time allowed to accumulate more than one-half the depth of the facility.

**Cost**An engineer's cost estimate for the anticipated erosion and sediment control items for the entire site are listed below:

Section 1 – Grading & Erosion Control BMPs	Quantity	Units	Price	Total
Earthwork*	60000	CY	\$5	\$300,000
Permanent Seeding*	5.0	AC	\$582	\$ 2.,910
Mulching*	5.0	AC	\$507	\$ 2,535
Erosion Bales	22	EA	\$21	\$ 462
Inlet Protection	1	EA	\$153	\$ 153
Vehicle Tracking Control	1	EA	\$1,625	\$ 1,625
Sedimentation Basin	1	EA	\$1,625	\$ 1,625
Silt Fence	3725	LF	\$4	\$14,900
TOTALE	BUSION & SE	DIMENT CO	MITPOL COST	\$324,210
TOTAL EROSION & SEDIMENT CONTROL COST				

<sup>\*</sup>Private

#### STORMWATER MANAGEMENT

#### Stormwater Management

Stormwater quality shall be protected and preserved throughout the life of this development. During mass grading and construction, measures such as sediment fences, straw bales, and vehicle tracking control shall be used to minimize erosion and sedimentation on site. During construction, the proposed extended detention basin shall function as a temporary sediment basin to reduce the potential for sediment leaving this development. Temporary diversion dikes shall be constructed to transport runoff that may contain sediment to the temporary sediment basin located on site until a stormwater system is installed. After various stages of the construction, when applicable, temporary or permanent erosion control stabilization shall be installed and maintained (landscaping, seeding, mulching, etc.).

#### **Potential Pollution Sources**

Materials are sometimes used at the construction site that present a potential for contamination of stormwater runoff. These include sediment, equipment/vehicle washing, vehicle maintenance and fueling, petroleum products, paint, solvents, treated wood products, asphalt (bituminous) paving, concrete, concrete-curing compounds, metal, waste storage and disposal and other liquid chemicals such as fertilizers, herbicides, and pesticides. Practices that can be used to prevent or minimize toxic materials in runoff from a construction site are described in this section.

Areas at the construction site that are used for storage of toxic materials and petroleum products shall be designed with an enclosure, container, or dike located around the perimeter of the storage area to prevent discharge of these materials in runoff from the construction site. These barriers shall also function to contain spilled materials from contact with surface runoff. Proposed locations for storage of toxic materials have not been determined at the time of this report. Locations shall depend upon construction phasing.

Measures to prevent spills or leaks of fuel, gear oil, lubricants, antifreeze, and other fluids from construction vehicles and heavy equipment shall be considered to protect groundwater and runoff quality. All equipment maintenance shall be performed in designated areas and shall use spill control measures, such as drip pans, to contain petroleum products. Spills of construction-related materials, such as paints, solvents, or other fluids and chemicals, shall be cleaned up immediately and disposed of properly. No batch plants will be located on this site.

Trash receptacles shall be provided and kept clean as required to keep the site clean of trash. In addition, portable toilets shall be provided for all workers on the site during construction. All portable toilet facilities shall be located at least three feet from curb flow lines and paved surfaces. The facilities shall be stationed on ground and secured down to prevent tipping.

Potable water is anticipated as a non-stormwater discharge. Potable water shall be used for grading, dust control, and irrigation of erosion control and permanent landscaping. An effort shall be made to use only the amount of potable water required for these operations.

#### Owner Inspection and Maintenance of Constructed BMPs

All inspection logs will include signatures on the logs and be kept on site along with other SWWP records.

1. *Minimum Inspection Schedule.* The permittee shall, at a minimum, make a thorough inspection at least once every 14 calendar days. Also, post-storm event inspections shall be conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface

erosion. Provided the timing is appropriate, the post-storm inspections shall be used to fulfill the 14-day routine inspection requirement. A more frequent inspection schedule than the minimum inspections described may be necessary to ensure that BMPs continue to operate as needed to comply with the permit.

- 1.1. Post-Storm Event Inspections at Temporarily Idle Sites. If no construction activities will occur following a storm event, post-storm event inspections shall be conducted prior to recommencing construction activities, but no later than 72 hours following the storm event. The occurrence of any such delayed inspection must be documented in the inspection record. Routine inspections still must be conducted at least every 14 calendar days.
- 1.2. *Inspections at Completed Sites/Areas.* For sites, or portions of sites, that meet the following criteria; but final stabilization has not been achieved due to a vegetative cover that has not become established, the permittee shall make a thorough inspection of their stormwater management system at least once every month. Post-storm event inspections are not required. This reduced inspection schedule is only allowed if:
  - 1.2.1.all construction activities that will result in surface ground disturbance are completed;
  - 1.2.2.all activities required for final stabilization in accordance with the Grading and Erosion Control/Stormwater Quality Plan have been completed, with the exception of the application of seed that has not occurred due to seasonal conditions or the necessity for additional seed application to augment previous efforts; and
  - 1.2.3.the Grading and Erosion Control/Stormwater Quality Plan has been amended to indicate those areas that will be inspected in accordance with the reduced schedule allowed for in this section.
- 1.3. Winter Conditions Inspections Exclusion. No changes are expected for winter work.

#### CONCLUSION

This SWMP Report and the Best Management Practices (BMPs) specified on the Erosion Control Plans have been designed to reduce any adverse impacts the construction of this project might have on the surrounding properties. If properly installed and maintained, the design shall protect the quality of the stormwater runoff that is released from this development.

All temporary erosion and sediment control measures shall be removed and disposed of within thirty (30) days after final site stabilization is achieved, or after temporary measures are no longer needed, whichever occurs earliest, or as authorized by the local governing jurisdiction.

Temporary erosion control measures may be removed only after streets and drives are paved, and all disturbed areas have been stabilized. Trapped sediment and disturbed soil areas resulting from the disposal of temporary measures must be returned to final plan grades and permanently stabilized to prevent additional soil erosion.

Final stabilization is reached when all soil disturbing activities at the site have been completed, and uniform vegetative cover has been established with a density of at least 70 percent of pre-

disturbance levels; or equivalent permanent, physical erosion reduction methods have been employed.

#### **Compliance with Standards**

This report was prepared in accordance with the procedures and concepts outlined in the *El Paso County Engineering Criteria Manual*.

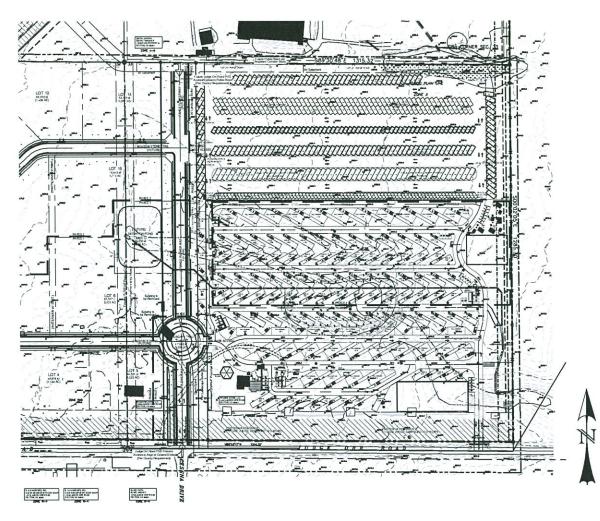
#### **REFERENCES**

- City of Colorado Springs Drainage Criteria Manual, Volume 2, including Addendums I and II.
- El Paso County Engineering Criteria Manual.

## **APPENDIX A**

Grading and Erosion Control Plans

#### GRADING AND EROSION CONTROL PLAN JUDGE ORR ROAD RV PARK AND STORAGE EL PASO COUNTY, COLORADO



SITE MAP

#### VICINITY MAP:



OWNER'S STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

ENGINEER'S STATEMENT:
These detailed plans were prepared under my direction and supervision. Said plans and specifications have been prepared in according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing these detailed plans and specifications.

Michael A. Bartusek, P.E. #23329

DEVELOPER'S STATEMENT

I, the Developer, have read and will comply with all of the requirements specified on this plan.

By: ANDREA MINNICH
Title: MANAGER
Address: PRAIRIE STONE, LLC

9476 DAKOTA DUNES LANE
PEYTON, CO 8031-4138
Filed in accordance with the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and the Engineering Criteria Manual, as amended.

Andrea Minnich, Manager

#### ENGINEER'S 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, LACCEPT RESPONSIBILITY FOR ANY LIBRILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

MICHAEL BARTUSEK, COLORADO P.E. # 23329 Date ASSOCIATED DESIGN PROFESSIONALS, INC.

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 EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR A PPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

COUNTY ENGINEER/ECM ADMINISTRATOR

LEGEND:

- PROPOSED MAJOR CONTOUR - PROPOSED MINOR CONTOUR \_\_ \_ \_ EXISTING MAJOR CONTOUR

U/G PIPE (MATERIAL AND SIZE AS NOTED) SF SILT FENCE

> LIMITS OF CONSTRUCTION CONCRETE WASHOUT

VEHICLE TRACKING CONTROL (SBB) STRAW BALE BARRIER

(IP) INLET PROTECTION TRAFFIC FLOW ARROWS

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DPC	DRAINAGE, GRADING & EROSION CONTROL PLAN	2 OF 7	
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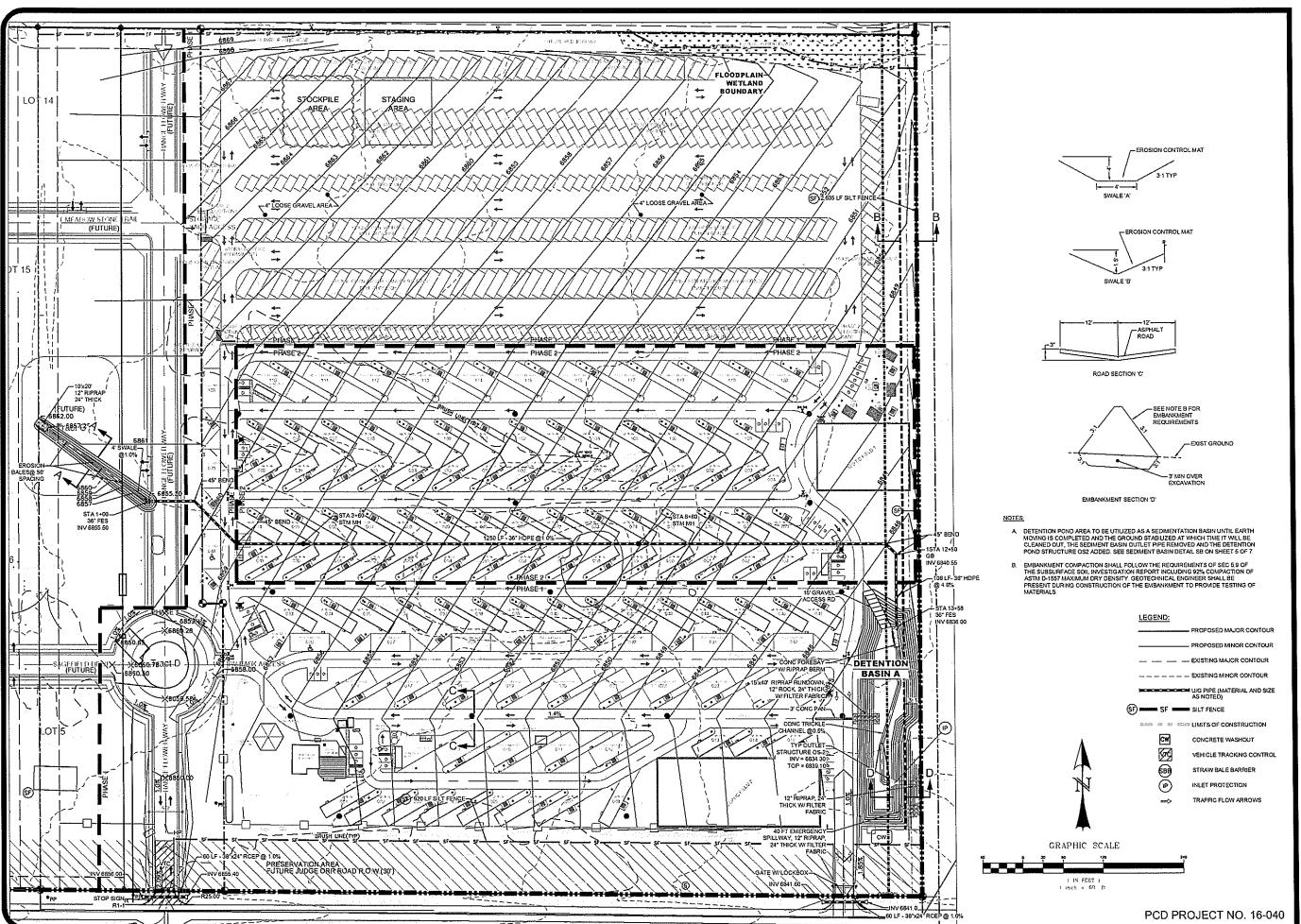
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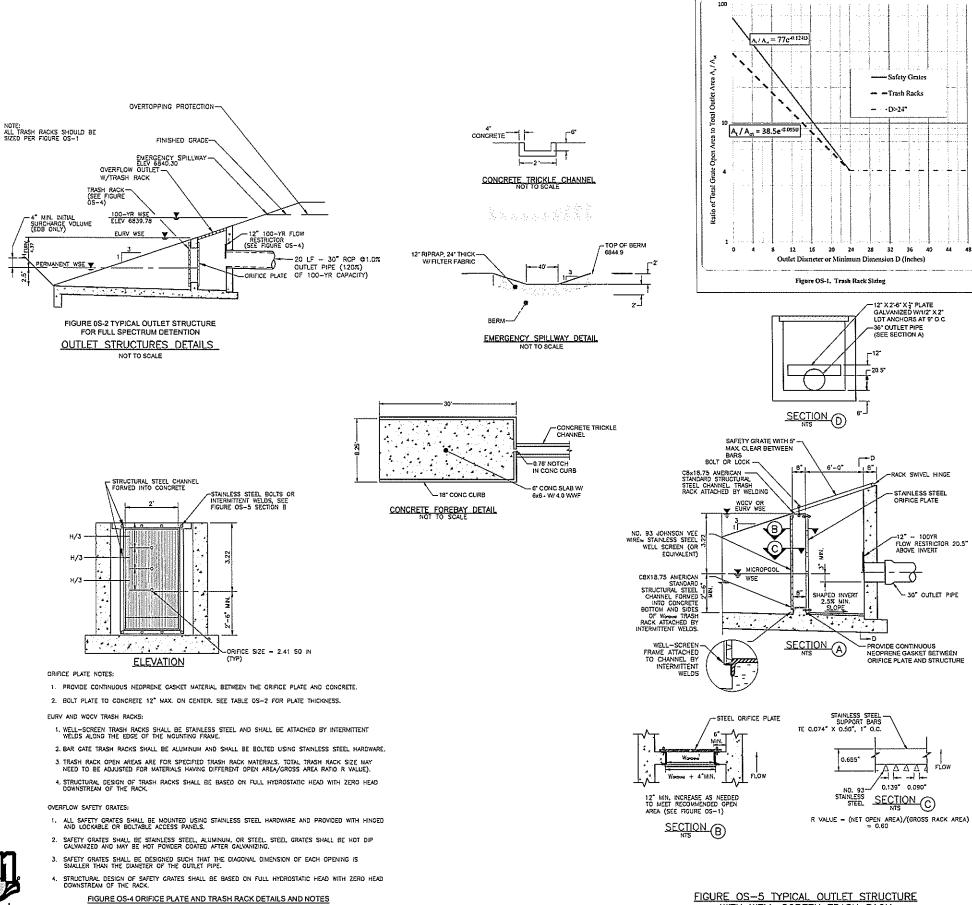
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Know what's below. Call before you dig.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING SPECIFICATIONS.
THE CONTRACTOR SHALL NOTIFY COLORADO STATE UTILITIES CENTRAL LOCATING (1-800-922-1997 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION SO THAT THEY MAY LOCATE THEIR FACILITIES. THE LOCATION OF FACILITIES SHOWN ON THE DRAWINGS IS FROM ANALABLE BEOCROPS AND CAPAGOVAINE.

THEIR FACILITIES. THE LOCATION OF FACILITIES SHOWN ON THE DRAWINGS IS FROM AVAILABLE RECORDS AND IS APPROXIMATE.

ALL EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS REFLECT THE AVAILABLE INFORMATION AND DO NOT NECESSARILY INDICATE THE ACTUAL LOCATIONS. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES HAT MAY CONFICT WITH OR OBSTRUCT THE NEW CONSTRUCTION. ANY REQUIRED RELOCATIONS THAT ARE NOT SPECIFICALLY SHOWN ON THE ORAWINGS SHALL BE COORDINATED WITH AND HAVE PRIOR APPROVAL OF EL PASO COUNTY UTILITIES.

ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF ASPHALT & FLOWLINE OF PAN.
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ALL STORM SEWER PIPE AND SANITARY SEWER PIPE LENGTHS AND SLOPES ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE

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

- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM DEVELOPMENT SERVICES AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND
- 1 CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERAUT IS OBTAINED FROM DEVELOPMENT SERVICES AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMUNITY DEVELOPMENT.

  2 STORM-WATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS, ALL WORK AND EARTH OISTURBANCE SHALL BE DONE IN A MANNERT HATA MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.

  3 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 COOE, THE ENGINEERING CORTERIA MANAUL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL CAND THE DRAINAGE CRITERIA MANUAL. THE DRAINAGE CRITERIA MANUAL. THE DRAINAGE CRITERIA MANUAL CAND THE DRAINAGE STATE OF THE MOST STANDARDS MUST BE REQUESTED, AND APPROVED. IN WITHING.

  4. A SEPARATE STORM-WATER MANAGEMENT PLAN (SMMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORM-WATER QUALITY CONTROL PERMIT (ESCOP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWAP IS THE RESPONSIBILITY OF THE DESIGNATED STORM-WATER MANAGES AND CHANGES IN THE FIELD.

  5. ONCE THE ESCOP HAS BEEN ISSUED. THE CONTRACTOR MAY INSTALL THE INITIAL STAGE. EROSION AND SEDIMENT CONTROL BEMPS AS INDICATED ON THE GOC. A PRE-CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING THE COMPLETED THE STORM THE SPECIAL STORM OF THE PROJECT ON ANY DISTURBED.

  6. SOIL EFROSION ON THE CONTRACTOR MAY INSTALL THE INITIAL STAGE. EROSION AND SEDIMENT CONTROL BEMPS AS INDICATED ON THE GOC. A PRE-CONSTRUCTION TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING THE C

- UTILITIES.

  5. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

  10. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG INC AND SHALL BE CONSIDERED AD THE STREET OF THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG INC AND SHALL BE CONSIDERED.
- 20 THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY RMG INC AND SHALL BE CONSIDERED A PART OF THESE PLANS.

  27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURED I ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORM-WATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORM-WATER MACKEMENT PLAN (SWAMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT: COPHE, 4300 CHERRY CREEK DR. S. DENVER, CO 80246-1530, PH. 303-402-3500

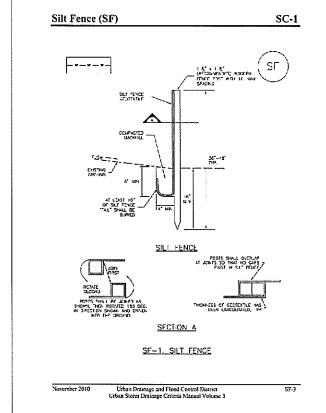
FIGURE OS-5 TYPICAL OUTLET STRUCTURE WITH WELL SCREEN TRASH RACK

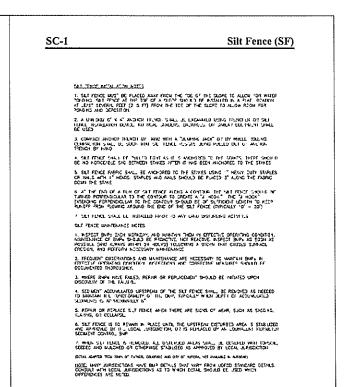
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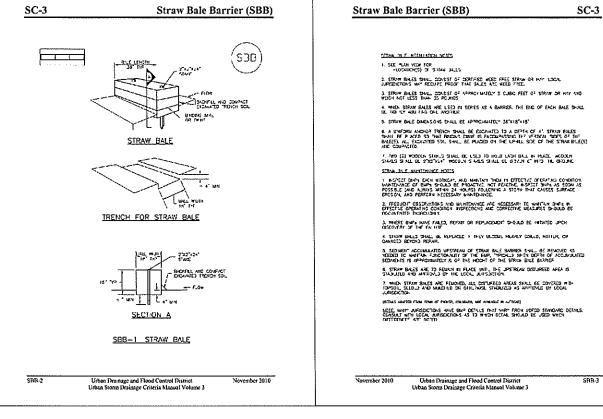
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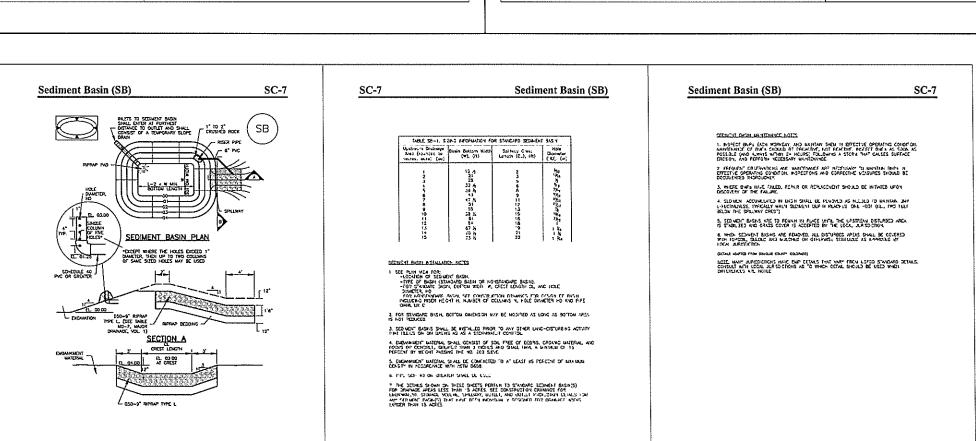


Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

Urban Dramage and Flood Control District



Urban Drainage and Flood Control District Helvin Storm Designee Criteria Manual Volume 3



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

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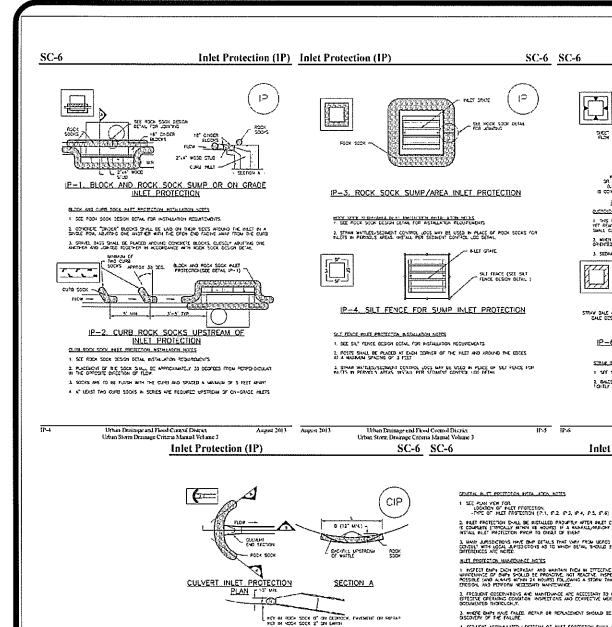
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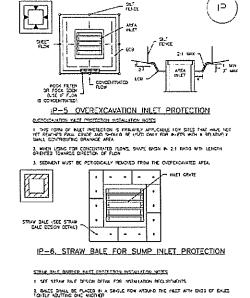
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CONTROL DETAILS





Urban Drainage and Flood Conzol District Urban Storm Drainage Criteria Manual Volume 3

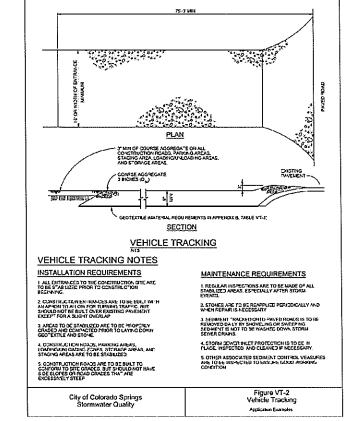
Inlet Protection (IP)

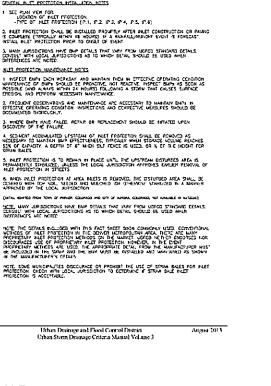
Inlet Protection (IP)

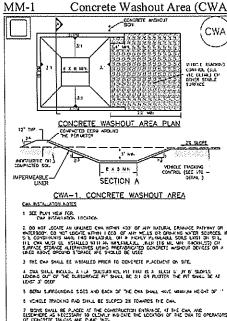
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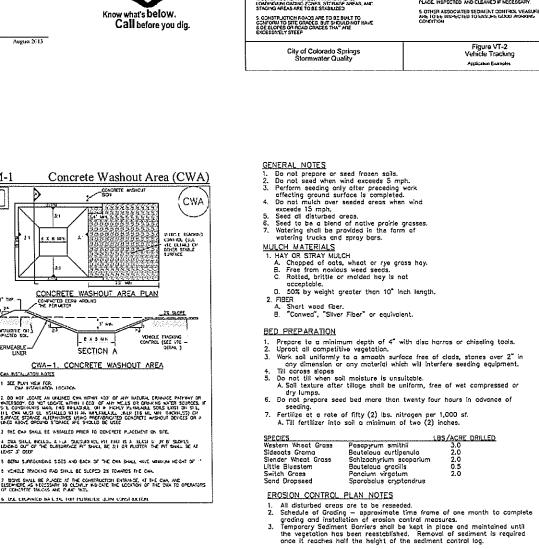
Urban Drainier and Flood Control District

12









INLET PROTECTION - NOT TO SCALE

SECTION B

CIP-1. CULVERT INLET PROTECTION

1. SEE POCK SOOM DESIGN DETAIL FOR BOOK CONDAIRCH REGUMENTAL AND JONETHS OFFIAL

I BEREIT BURS EACH MERCHET AND MANTAN THEM AS EFFICIENC OPERATED CONDITION MANTEMACE OF RURS SHOULD BE PROMISED FOLLOWING ASSECTE BURS AS SOON AS POSSELE OWN ARMS ASSECTED FOLLOWING A STERM THAT CAUSES SUPPLIED FROM A CESSARY AND MEMORIAL OF PERCONA RECESSARY MANTEMACE.

2. FREGUERI OBSERVATIONS AND MUNITIPANCE ARE RECESSARY TO MAINTAIN BURN OF UNFORMS OPERATION ASSERBING AND CONTINUES MUSURES SHOULD BE DOCUMENTED. BURNINGS AND CONTINUES. BURNINGS AND CONTINUES.

3 MITTER BURN HAVE FACED, PEPARS OR PEPLACEMENT SHOULD BE ONTATED UPON DISCOVERY OF THE FALLOW.

a seement accurrated upstream of the cultural space be relicated when the seement depth is by the nechal of the rock sock.

S. CULVERT BRET PROFESTICS SHALL FERAN TH PLACE UNTO THE UPSTRAW DISTURBED AND APPROVED BY THE LOCAL JURISDICTION.

HOTE SHIT LEMSDICTORS HAVE SUP DETAILS THAT VARY FROM METCO STANDARD BETAILS CONSULT WITH 1000 A TRECHOTORS AS TO WHICH DETAIL DI ONLD BE WOOD WHEN BETTERFORD ARE HOTED.

Firlam Dramage and Flood Control Destric

Urban Storm Drainage Criteria Maraul Volume 3

CHANGE MET PROJECTION NO

\* SEE PLAN NEW FOR -LOCATION OF QUANTITY PALET PROTECTION.

CHANGE MALE PROTECTION MAINTENANCE NOTES

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COLORADO ō DETAILS S ď CONTROL RINGS Α. AD SP Õ EROSION COLORADO ORR ш Ō SHEET PCD PROJECT NO. 16-040 5 of 7

PROFE SCALE

PREPARED BY:

2

3520 Austa Bidfs Parkway Sute 102 Celerade Springs, CO 80915 (719) 266-5212 fax (719) 256-5241

#### Standard Notes for El Paso County Construction Plans

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

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL
  EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS DR NOT, BEFORE BEGINNING CONSTRUCTION,
  LOCATION OF EXISTING UTILITIES SHALL BE VERIFED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  CALL B11 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 2. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:

  - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
    b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND
  - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- 4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADDRED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL OCLUME 2. ANY DEVALTONS FROM REGULATIONS AND STANDARDS MUST BE REQUISTED. AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER—THE—FACT MANUAL SETUPPET OF THE DOVELOPS'S DEFENDED OF PETTEY. WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMBSSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT (DSD) - INSPECTIONS, PRIDR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESDCP), REGIONAL BULDING FLOODPLAIN DEVELOPMENT PERMIT, ULS. ARMY CORPS OF ENGINEERS—ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEMATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DSD PRIOR TO PLACEMENT OF CURB AND CUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCO CRITERIA, [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROMDED.]
- 14. CONTRACTOR SHALL DBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF DISTURBANCE SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

#### NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF TRANSPORTATION FOR A PRE-CONSTRUCTION CONFERENCE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. CONTRACTOR SHALL OBTAIN NECESSARY CONSTRUCTION PERMITS PRIOR TO CONSTRUCTION.
- 4. ALL ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO EL PASO COUNTY STANDARD SPECIFICATIONS.

#### NOTE:

AT LEAST 1D DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT MLL DISTURB ONE ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART.

#### SIGNING AND STRIPING NOTES:

- 1 ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC
- CONTROL DEVICES (MUTCD).

  REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPUSHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT

- 3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.

  4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IT THEY MEET CURRENT EL PASO COUNTY AND MUTCO STANDARDS.

  5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.

  5. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.

  7. ALL STREET NAME SIGNS SHALL HAVE "D' SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING OF LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING ON B' BLANK AND NON-LOCAL ROADWAY SIGNS BEING THAT IS NOT RECESSED. THE WIDTH OF THE HON-RECESSED WHITE BORDER SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"

  8. ALL RAFING SIGNS SHALL HAVE A NINIMALL HER MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR O'THER APPLICATIONS, REFER TO THE COTT STANDARD HIGHWAY SIGNS BY BASE. FOR O'THER APPLICATIONS, REFER TO THE COTT STANDARD SHALL BE SINGLE SHIELD SHALL BY A SHALL BY A SHALL BY A SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR O'THER APPLICATIONS, REFER TO THE COTT STANDARD S-614-B REGARDING USE OF THE PZ TUBULAR STEEL POST SLIPBASE DESIGN.

  10. ALL SIGNED SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.

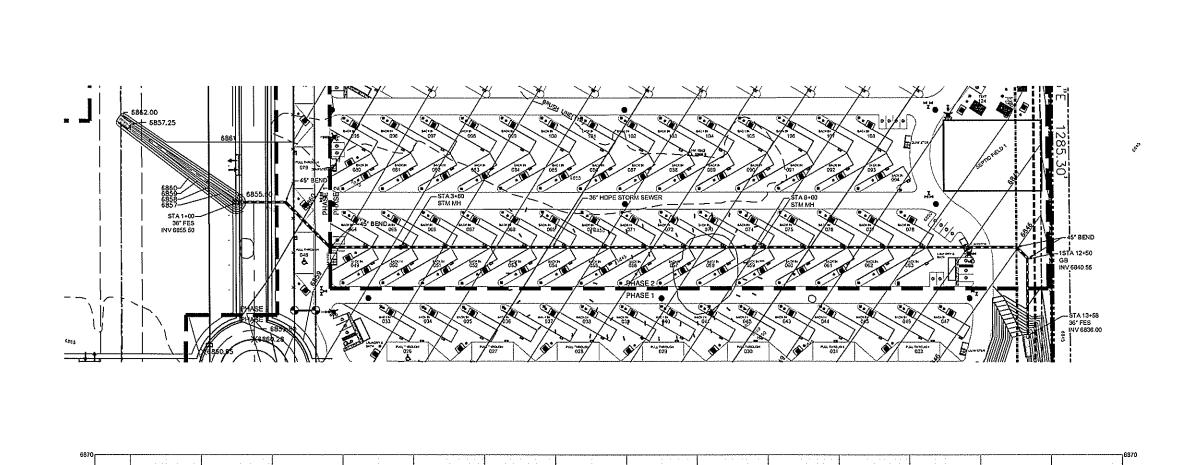
  11. ALL LIMIT LINESSTOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS. AND ARROWS SHALL BE A MINIMUM. 125 MIL THICKNESS PEFFORMED THERMOPLASTIC PAVEMENT MARKINGS STATL BE THE MARROW TYPE. STOP BARS SHALL BE 2" IN WIDTH. CROSSWALKS LINES SHALL BE THE MARROW TYPE. STOP BARS SHALL BE 2" IN WIDTH. CROSSWALKS LINES SHALL BE THE MARROW TYPE. STOP BARS SHALL BE 2" IN WIDTH. CROSSWALKS LINES SHALL BE THE MARROW TYPE. STOP BARS SHALL BE 2" IN WIDTH. CROSSWALKS LINES SHALL BE A HAMINUM HILD HICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS IN ALL DEAL PAR COUNTY SHALL BE A SHALL BE SHOULD SHALL BE SHALL BE A HAMI

- 12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15ML THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS
  SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY COOT
- 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO
- AND UPON COMPLETION OF SIGNING AND STRIPING

  14. THE CONTRACTOR SHALL OSTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

DATE. 521/18 JOB NO 180301 CAD FILE 180301-Bis 1804/HB PREPARED BY: STORAG 2 ంర NOTES PARK SPRINGS, STANDARD RV ROAD OLORADO ORR JUDG Ŭ SHEET 6 of 7

PCD PROJECT NO. 16-040



-100 YR HGL

36" HDPE STORM SEWER PROFILE SCALES HORIZONTAL 1"\*80" VERTICAL 1"\*10"

390 LF 36" HDPE 01 3%

STA 13+58,00 C

STA 12+50,00 INV = 6840,35

260 LF 36" HDPE 01.3%

PROP WATER

STA 3+60.00 STR RIM = 6357.80 INV IN = 6852.12 INV OUT = 6652.00

JUDGE ORR ROAD RV PARK & STORAGE COLORADO SPRINGS, COLORADO STORM SEWER PROFILE

DESIGNED
MAB
PROJECT I
MAB
PROJECT I
MAB
SCALE:
HORZ
VERT

DATE: 521/18 JOB NO. 160301 CAD FILE NO 160301-Base DRAWHBY

PREPARED BY:

A PCIVIL STATES

3522 Austin Bluffs Parkway Suite 102 Colorado Springs, CO 80918 (219) 205-5212 fair (219) 205-5241

SHEET

**7** of **7** 

## **APPENDIX C**

Inspection Checklist

## EXTENDED DETENTION BASIN (EDB) MAINTENANCE FORM

Subdivision/Business Name:		Completion Date:				
Subdivision/Business Address:		Contact Name:				
Maintenance Category: (Circle All That Apply)	Routine	Restoration	Rehabilitation			
MAINTENANCE ACTIV	VITIES PERFORM	ED				
	KS CLEANING (TRAS OL (HERBICIDE APPL EATMENT	H RACK/WELL SCREEN) LICATION)				
RESTORATION WOR	<u>K</u>	REHABILITATION	WORK			
INFL EROSION REP INFL TRIC VEGETATION F INFL TRIC UPP BOT REVEGETATIO JET-VAC/CLEA	REBAY CKLE CHANNEL LOW VAIR LOW POINT CKLE CHANNEL REMOVAL/TREE THIN LOW(S) CKLE CHANNEL PER STAGE TOM STAGE ON ARING DRAINS REBAY FLET WORKS	BO UF BO UF UF OF OF UF UF SF STRUCTURAL IN OF FO FO	JTLET WORKS PPER STAGE DTTOM STAGE PILLWAY REPAIR			
ESTIMATED TOTAL MAN	HOURS:					
COSTS INCURRED (includ	de description of costs	):				
EQUIPMENT/MATERIAL USED (include hours of equipment usage and quantity of material used):						
COMMENTS/ADDITIONAL	_ INFO:					
This Maintenance Activity Form shall b Springs upon request.	e kept a minimum of 5	years and made available	to the City of Colorado			

## Markup Summary

#### dsdlaforce (3)



Subject: Callout Page Label: 1 Author: dsdlaforce

Date: 6/28/2018 1:04:12 PM

Color:

Revise to "# PPR-16-040"



Subject: Callout Page Label: 1 Author: dsdlaforce

Date: 6/28/2018 1:14:41 PM

Color:

Does not match the applicant in the ESQCP form.

Revise one or the other.



Subject: Callout
Page Label: 5
Author: dsdlaforce

Date: 6/28/2018 2:28:11 PM

Color:

Identify in the sequence when the sediment pond

is installed.