JUDGE ORR ROAD RV PARK & STORAGE DEVELOPMENT

GRADING, EROSION CONTROL AND STORMWATER QUALITY REPORT (SWMP)

Prepared For:
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9476 Dakota Dunes Lane
Peyton, CO 80831-4138

Prepared By:
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ADP Project No. 160301 July 17, 2019



PCD Project #PPR-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 6th 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 1.4%. 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

Α

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 44.0% from 1.4%, in addition the runoff coefficients for the 100-year storm will increase from 0.36 to 0.57.

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
- Install temporary sedimentation basin
- 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/detention 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.

Should conditions change during construction the Engineer shall to modify the SWMP accordingly.

Anticipated starting and competition date: June 1, 2019 to October 1, 2019

Expected date on which the final stabilization will be completed: October 1, 2019

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

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	6	EA	\$153	\$ 918
Vehicle Tracking Control	1	EA	\$1,625	\$ 1,625
Sedimentation Basin	1	EA	\$1,625	\$ 1,625

Silt Fence	3725	LF	\$4	\$14,900
Concrete Washout Basin	1	EA	\$776	\$776
TOTAL EROSION & SEDIMENT CONTROL COST			\$325,751	

^{*}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. Existing BMP's will be evaluated during inspections and revised as necessary to achieve site compliance. Revisions shall be annotated on the plan and initialed and dated by the Stormwater and El Paso County inspector.
 - 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 predisturbance 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*.

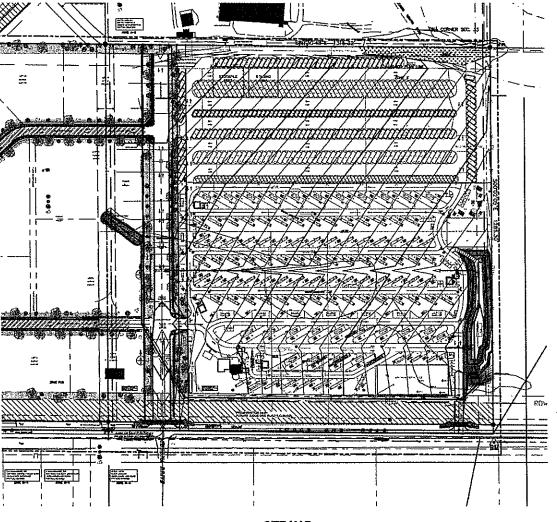
REFERENCES

- 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

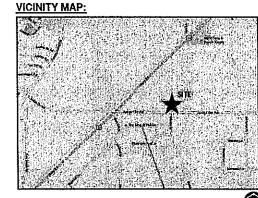
GRADING AND EROSION CONTROL PLAN JUDGE ORR ROAD RV PARK AND STORAGE EL PASO COUNTY, COLORADO



SITE MAP

CONTROL POINT SET ON FENCE LINE, SOUTH SIDE OF JUDGE ORR ROAD FT DUE SOUTH OF EAST PROPERTY LINE. ELEV = 6841.90 (HV100)

WEST LINE SWIZ OF THE SWIZ SECTION 33 NO0"04" 00"W



THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL OF AN

Andre Umnich

Michael A. Bartusek, P.E. #23329

DEVELOPER'S STATEMENT: (, the Developer, have read and

By: ANDREA MIRRICH
TBIO: MANAGER
Address: PRAIRIE STONE, LLC
9476 DAKOTA DUNES LANE
PETTON, CO 8031-4138
Filed in accordance with the EP Paso County Land Development Code, Oreinage Criteria Manual Volumes 1 and
1, 1

Andre Ummen

ENGINEER'S STATEMENT;

THIS GRACING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITICAL BESTABLISHED BY THE CONTROL PLANS, I ACCEPT RESPONSIBILITY FOR AN MALL TYPE AND THE SET AND HE SET AND THE SET

MICHAEL BARTUSEK, COLORADO P.E. # 23329 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 ISINED BY 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 OEVELOPMENT DIRECTORS DISCRETION.

JENIFER IRVINE P.E. COUNTY ENGINEER/ECM ADMINISTRATOR

LEGEND:

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U/G PIPE (MATERIAL AND SIZE AS NOTED)

LIMITS OF CONSTRUCTION CONCRETE WASHOUT

> VEHICLE TRACKING CONTROL 889 (₽) STRAW BALE BARRIER

INLET PROTECTION TRAFFIC FLOW ARROWS

DRAWING INDEX

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STANDARD NOTES 6 OF 7 STORM SEWER PROFILES

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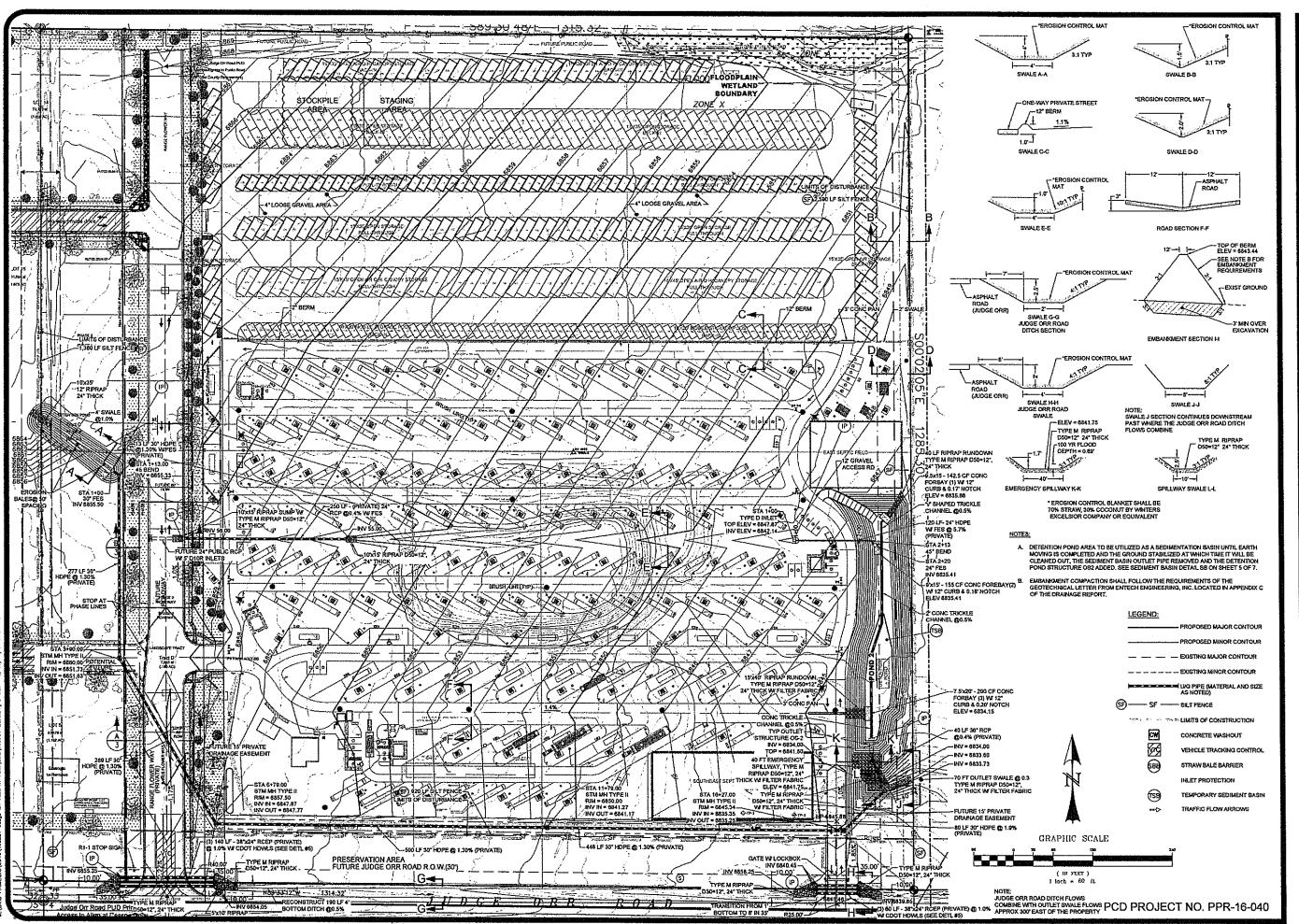
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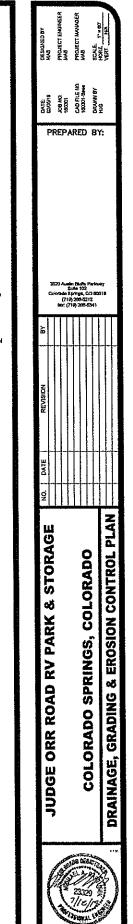
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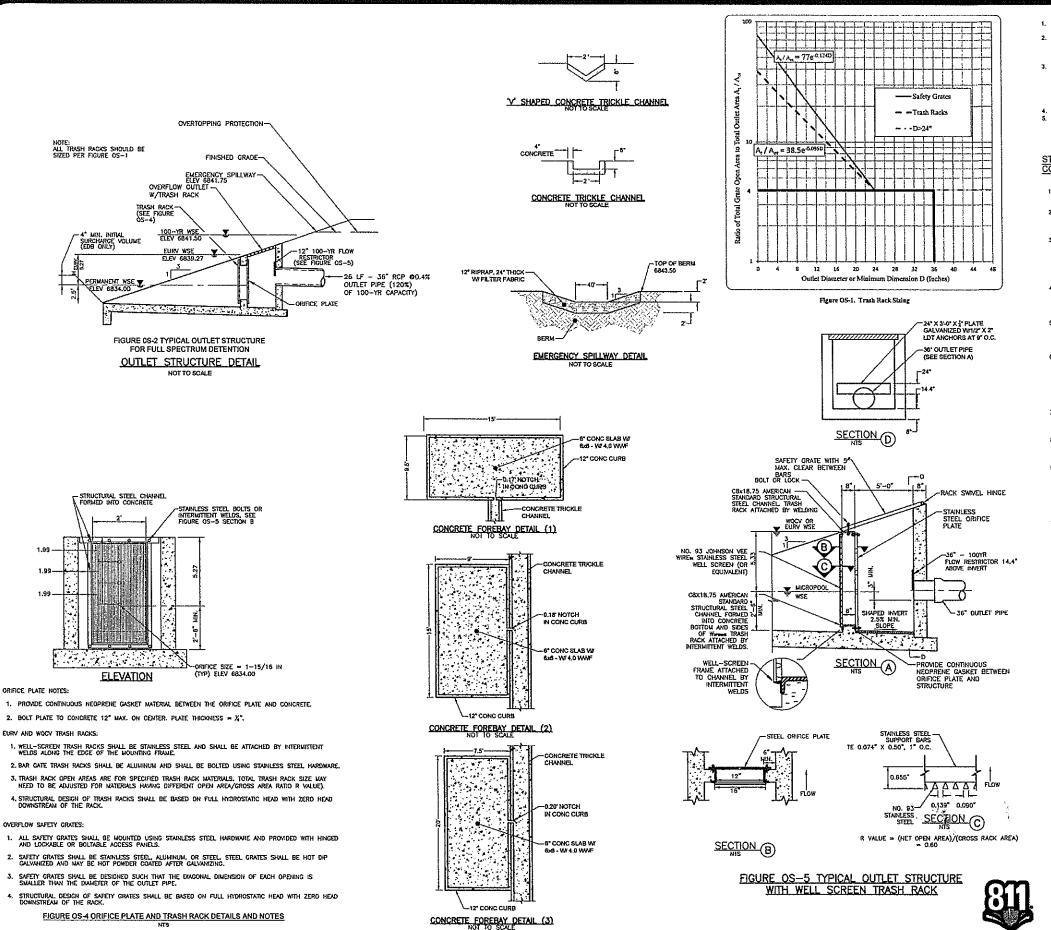
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STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

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1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM OEVELOPMENT SERVICES AND A PRIE-CONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMENTY DEVELOPMENT.

2. STORM-WATER DISCHARGES FROM CONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND CAUSE OR THREATEN TO CAUSE POLILITION, CONTAMINATION, OR DECRADATION OF STATE WATERS, ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANIER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OF STIE WATERS, INCLIDION GRITLANDS,

3. NOTAMINISTADING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC PROPERTY OF THE MOST EXPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST PROCESSON CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST PROCESSON CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED ALL PADS COUNTY STANDARDS, INCLUDION THE LAND DEVELOPMENT COOP, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVALOPMENT COOP, THE RECENT ADOPTED AND PROVIDE BY WARTING.

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15. VEHICLE TRACKING OF SORS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF

13. MERICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINHAZED.
MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF
IMMEDIATELY.

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, THESE SLASH, BUILDING MATERIAL WASTES OR
UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. THE OWNER, SITE DEVELOPER, CONTRACTOR, ANDIOR THEIR MITHORIZED AGENTS SHALL BE
RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIST, TRASH, ROCK, SEDIMENT,
AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE
SYSTEM AND STORM-WATER APPURTEHANCES AS A RESULT OF SITE DEVELOPMENT.
18. THE COUNTRY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE UNCH AS PRACTICAL, TO THAT GUARTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE.
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19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE
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SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STATE WATERS, INCLUDING MAY BE REQUIRED.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORM-WATER CHEMICALS SHALL HAVE
ADEQUATE PROTECTION SO AS TO CONTRAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL,
FROM ENTERING STATE WATERS, INCLUDING MAY SURFACE OR SUBSURFACES STORM DOWNLOSE
SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORM-WATER FLOW IN THE FLOW LINE OF THE
CURB AND GUTTER OR IN THE OTTO-H-LINE.
22. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL
ACT (TITLE 2S, ARTICLE 8, CRS), AND THE CLEAN WATER ACT (3) USE 1344), IN ADDITION TO THE
REQUIREMENTS AND LAWS, RULES, OR REQUIATIONS OF OTHER FEDERAL, STATE, OR COUNTY
AGENCIES, THE MORE RESTRUCTIVE LAWS, RULES, OR REGULATIONS OF OTHE

24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITTE SHALL VERIFY THE LOCATION OF EXISTING LITTLE THER

UTILITIES.

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

26. THE SOULS REPORT FOR THIS SITE HAS BEEN PREPARED BY RIMD 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 DISTURB 1 CARE OR HORE. THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERRUIT APPLICATION FOR STORM-WATER DISCHARGE TO THE COLORADO DEPARTMENT OF PURLIC HEALTH AND ENVIRONMENT, WATER GUALTY OVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORM-WATER MANAGEMENT PLAN (SYMAP), OF WHICH THIS GRADHIG AND EROSION CONTROL PLAN BAY BE A PART. FOR INFORMATION OR APPLICATION HOLDS AND SOURCES.

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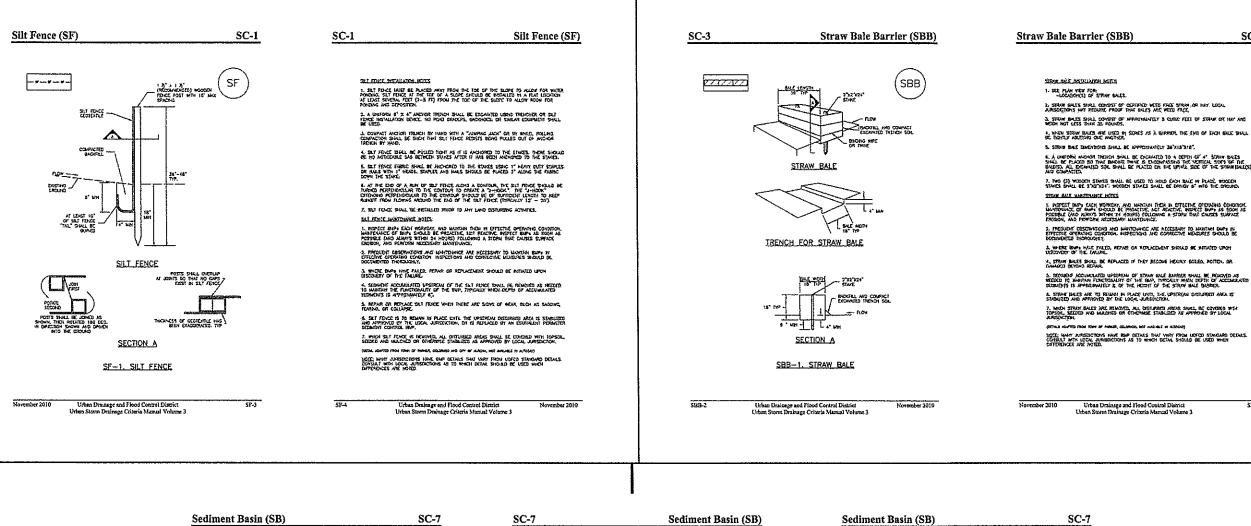
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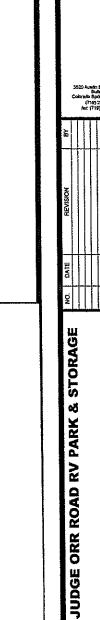
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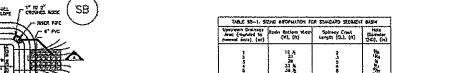




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ETHADIC SASSI MEDICALATICH NOTES

THE THE PROPERTY OF THE PROPER hat. Charles basin, see construction drawnos for design of busin Fisch hogat II, majbor of columns H, hole divincter no and info

2. FOR STANDARD BASH, BOTTOM CHICKERON MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED. s. Sedagot bashs shill be districted pincr to any direc land-disturbate actuaty that recess on on baspis as as a stormater control. Publishment material shall concept of size free of degree, ordined material and rocks or consecut greater than 3 incressions shall are a median of 15 persons or wishin passion the No. 200 Sept.

5. ELBERGREEKT WATERIA, SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAGRANI DENOTIFY IN ACCORDANCE WITH ASTER DAYS. S. FAVE: SOH 40 OF DREATER SHALL BE USED.

7. DIE DETAIS SHOWLD I REES SHETTS PERIOR TO STANDARD SEDMENT BASRICS FOR DUMANCE AREAS LESS HAM IS ADREC SEE CONSTRUCTION DUMANDES FOR DEMANDER, STONAL YOURSE, STRUMY, DUTLIER, AND DUTLIER STRUCTION DETAILS FOR MY SEDMENT SHOWLD FOR DEMANDER, STRUMP SHOWLD FOR DUMANDE AFENS HAVE SED IN ACCES.

SETAMENT BASIN MAINTENANCE NOTES

2. FRENCH DESCRIPTIONS AND WINDERSON ARE RECESSARY IS WARREN BAPS AN EFFECTIVE OFFICIAL CONSTRUCT SEPTEMBERS AND CORRECTIVE MINISTERS SHOULD BE OCCURRENT PROPERTY. 2. WHERE BURY HAVE FALLED, REPAIR OR REPLACEMENT BROULD BE REMAIDS UPON DISCOVERY OF THE FALLER.

S. SERNICHT RASHE ARE TO REMAIN IN PLACE WHIL THE LYSTREAM DISTARRED AREA IS STREAMED AND CRUZE COVER IS ACCEPTED BY THE LOCAL AUGUSTICAL MILIT SECREDIT BLOCKS AND ALLOCATIONS MALES SHALL NE CONSTRU-SEN FORSCA, SECRED AND MALES OF EPICEMPSE STABLED AS APPROXIME SE LOCAL PRESCRIPTA.

NOTE: WHY INSTRUMENT HAS BUT RESILS THAT WAY FROM NOTED STABLED DEFAILS.

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ENTEROPICES AND HOLES.



NOTE: PROPOSED 2.5 Ac. FT EDB TO BE USED AS SEDIMENT BASIN

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

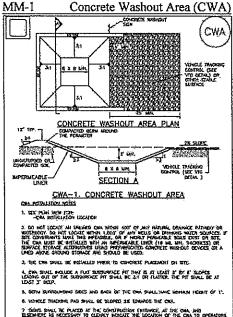
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SEDIMENT BASIN PLAN OCCUPY WHERE THE HOLES DREED.

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

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

WINGWALLS FOR RANGE FLOWER WAY AND FIRE ACCESS DRIVE CULVERTS TO BE 45' AND B' LONG.



GENERAL NOTES Do not prepare or seed frozen soils.
 Do not seed when wind exceeds 5 mph.
 Perform seeding only after preceding work affecting ground surface is completed.
 Do not mulch over seeded areas when wind 4. Do not mulch over seeded greas when while exceeds 15 mph.
5. Seed all disturbed greas.
6. Seed to be a blend of native prairie grasses.
7. Watering shall be provided in the form of watering trucks and spray bors. Watering Yucks and spray bors.

NULCH MATERIALS

1. HAY OR STRAY MULCH
A. Chopped of cots, wheat or rye gross hay.
B. Free from noxious weed seeds.
C. Rotted, brittle or molded hay is not acceptable.
D. 50% by weight greater than 10" inch length. FIBER
 A. Short wood fiber.
 B. "Conwed", "Silver Fiber" or equivalent. BED PREPARATION Prepare to a minimum depth of 4" with disc harros or chiseling tools. Uproot oil competitive vegetation. 2. Upraot all compatitive vegetation.
3. Work soil uniformly to a smooth surface free of clods, stones over 2° in any dimension or any material which will interfere seeding equipment.
4. Tall across slopes
5. Do not tall when soil moisture is unsuitable.
A. Soil texture after tallage shall be uniform, free of wet compressed or dry lumps. dry lumps.

6. Do not prepare seed bed more than twenty four hours in advance of Fertilize at a rate of fifty (2) lbs, nitrogen per 1,000 sf.
 A. Till fertilizer into soil a minimum of two (2) inches. SPECIES
Western Wheat Grass
Sideoots Grama
Slender Wheat Grass
Little Bluestem
Switch Grass
Sond Dropseed LBS/ACRE DRILLED Pasopyrum smithii Bouteloua curtipenula Schlzachyrlum scoperium Bouteloua gracilis Pancium virgatum Sporobolus cryptandrus 7 sight dime, he flucto at the construction entrance, at the cal and exchange as necessary to closely expectly the location of the cal to dyphater of concept thicks and play high EROSION CONTROL PLAN NOTES # USE EXCHANDS WATERAL FOR PERSONETER BEFOR CONSTRUCTION. Nil disturbed areas are to be reasonad.
 Schedule of Grading – approximate time frame of one month to complete grading and installation of erosion control measures.
 Temporary Sediment Borriers shall be kept in place and mointained until the vegetation has been resetablished. Removal of sediment is required ance it reaches half the height of the sudiment control log.

MARCHINE STATES DATE. C205/18 JOB NO. 160301-Barn 190301-Barn DRAWN BY HAO PREPARED BY: STORA(COLORADO DETAILS Ø CONTROL SPRINGS, \$ ROAD ORADO. ORR COL JUDGE 23329 5 7/18/19

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5 of 7

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 OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTBUTY NOTIFICATION CENTER OF COLORADO (UNCC)
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION
 CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SYMP), THE SOUS AND GEOTECHNICAL
 REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT
 THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:

 EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND

 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD
 - AND BRIDGE CONSTRUCTION

 d. COOT M & S STANDARDS
- 4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER—THE—FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPEMENT (PCD) INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORWATER QUALITY CONTROL PERMIT (ESOCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. 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 PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS CREATER THAN 1B INCHES ABOVE FLOWING ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCO CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RICHT-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 HOTIFY 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.
- ALL ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO EL PASO COUNTY STANDARD SPECIFICATIONS.

NOTE:

AT LEAST 10 DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE ACRE OR MORE, THE OWNER OR OPERATION OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMANER DISCHARGE TO THE COLORAD DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMANTER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART

SIGNING AND STRIPING NOTES:

- 1. ALL SIGNS AND PAYEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM
- REFIGURE ON PAYMENT MAKENINGS SHALL BE IN COMPLENCE WITH THE COPRENT MAKENING ON DIRECTION PROPERTY OF THE PAYMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAYMENT. THE PAYMENT MARKINGS SHALL BE RENOVED 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 PAYMENTH MAKINGS.

 ANY DEVIATION FROM THE STRIPPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING.

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

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

 STREET HAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INFERSECTIONS.

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

 ALL STREET HAME SIGNS SHALL HAVE "D' SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT BECESSED. MULTI-ANNE ROADWAYS GIRNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT BECESSED. MULTI-ANNE ROADWAYS WITH SPEED LIMITS OF 40 MAPH OR HIGHER SHALL HAVE B' UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-ANNE ROADWAYS WITH SPEED LIMITS OF 40 MAPH OR HIGHER SHALL HAVE B' UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE BESTELL WATER BORDER THAT IS NOT RECESSED. THE SHALL HAVE B' UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE SHALL HAVE B' UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 HUTCO "STANDARD

- WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MAYCH PAGE 255 OF THE 2012 MUTCO "STANDARD HIGHWAY SIGNS"

 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING, 19. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75°X 1.75°SOURSE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE COOT STANDARD S-614—8 RECARDING USE OF THE P2 TUBLIAR STEEL POST SLIPBASE DESIGN.

 10. ALL SIGNS SHALL BE SINGLE SHEET ALLWHIUM WITH 0.100°MINIMUM THICKNESS.

 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT LEGENDS, AND ARROWS THE STOP BARS SHALL BE 24'NIN MIDTH. CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS THE STOP BARS SHALL BE 24'NIN MIDTH. GROSSWALKS LINES SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24'NIN MIDTH. GROSSWALKS LINES SHALL BE 12'MIDE AND 8'LONG PECODT S-627-1.

 12. ALL CONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL HON-LOCAL RESIDENTAL RODAWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGS LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.

 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SICKING AND STRIPING 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 PRASO COUNTY ROADOWAY.

DATE:

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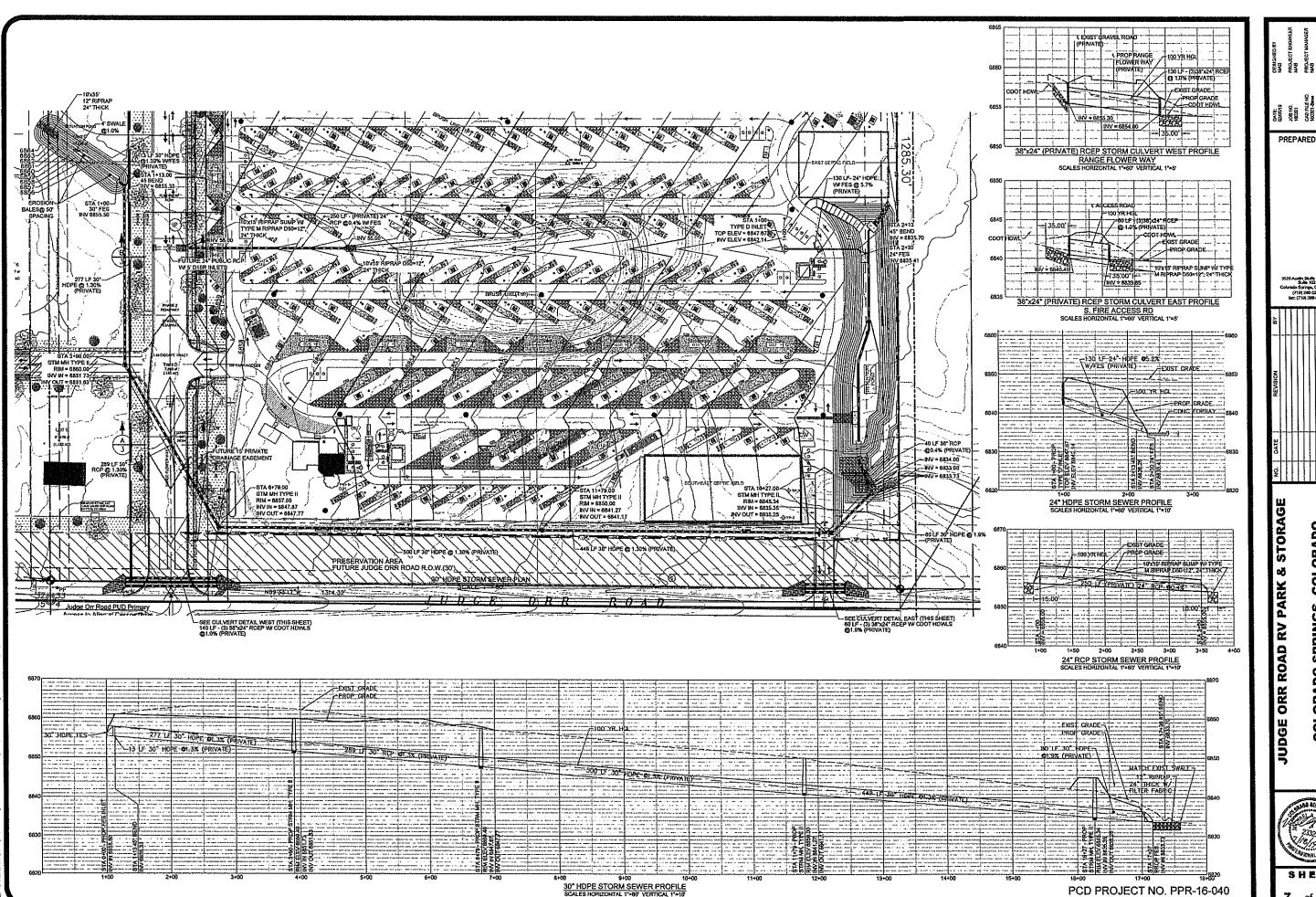
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HG PREPARED BY: 3520 Avetin Stath Per Suria 102 (7:8) 266-5212 for: (719) 266-5341 ORAGI 0 COLORA ST ٥ŏ PARK NOT NGS, STANDARD ≥ 2 ROAD SP OLORADO ORR JODGE Ö SHEET 6 of 75%

PCD PROJECT NO. PPR-16-040



OATE: DDOS/19 JOB NO. CAD FILE NO. 150301-Bree DGAMN BY PREPARED BY: COLORADO COLORADO SPRINGS, COLORA STORM SEWER PROFILES

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APPENDIX C

Inspection Checklist

Appendix C

EXTENDED DETENTION BASIN (EDB) INSPECTION FORM

	Date:
odivision/Business Name:	Inspector:
odivision/Business Address:	
eather:	
Date of Last Rainfall:	Amount: Inches
Property Classification: Residential Multi Familircle One)	y Commercial Other:
Reason for Inspection: Routine Co ircle One)	mplaint After Significant Rainfall Event
INSPECTION SCORING - For each facility inspection item	insert one of the following scores
0 = No deficiencies identified	2 = Routine maintenance required
1 = Monitor (potential for future problem)	3 =Immediate repair necessary
N/A = Not applicable	•
FEATURES	
1.) Inflow Points	2.) Forebay
Riprap Displaced	Sediment/Debris Accumulation
Erosion Present/Outfall Undercut	Concrete Cracking/Failing
Sediment Accumulation	Drain Pipe/Wier Clogged (not draining)
Structural Damage (pipe, end-section, etc.)	Wier/Drain Pipe Damage
Woody Growth/Weeds Present	, ,
3.) Trickle Channel (Low-flow)	4) Boftom Stage (Micro Book
Sediment/Debris Accumulation	4.) Bottom Stage (Micro-Pool)Sediment/Debris Accumulation
Concrete/Riprap Damage	Woody Growth/Weeds Present
Woody Growth/Weeds Present	Bank Erosion
Erosion Outside Channel	Mosquitoes/Algae Treatment
	Petroleum/Chemical Sheen
5.) Outlet Works	6.) Emergency Spillway
Trash Rack/Well Screen Clogged	Riprap Displaced
Structural Damage (concrete,steel,subgrade)	Erosion Present
Orifice Plate(s) Missing/Not Secure	Woody Growth/Weeds Present
Manhole Access (cover, steps, etc.)	Obstruction/Debris
Woody Growth/Weeds Present	
7.) Upper Stage (Dry Storage)	8.) Miscellaneous
Vegetation Sparse	Encroachment in Easement Area
Woody Growth/Undesirable Vegetation	Graffiti/Vandallsm
Standing Water/Boggy Areas	Public Hazards
Sediment Accumulation	Burrowing Animals/Pests
Erosion (banks and bottom)	Other
Trash/Debris	
Maintenance Access	
Inspection Summary / Additional Comments:	
OVERALL FACILITY RATING (Circle One)	
0 = No Deficiencies Identified	2 = Routine Maintenance Required
1 = Monitor (potential for future problem exists)	3 = Immediate Repair Necessary
This inspection form shall be kept a minimum of 5 years	

request.