APPALOOSA HWY 24 SUBDIVISION FILING NO. 1A, LOT 2

GRADING, EROSION CONTROL AND STORMWATER QUALITY REPORT

PREPARED BY

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PREPARED FOR

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PROJECT DESCRIPTION

This proposed project is contained within a new subdivision named the Appaloosa Hwy 24 Subdivision, Filing No. 1A Lot 2. This currently vacant lot consists of 1.008 acres. It will be developed as light industrial lots. It is located in Sections 7, Township 14 South, Range 65 West of the Sixth Principal Meridian, County of El Paso, State of Colorado. The site is located north of Hwy 24, east of Amelia Street and south of Terminal Avenue.

The proposed site is located within the Sand Creek Drainage Basin and flows into the East Fork of Sand Creek. The flows from this area travel in a southwesterly direction and into an existing 4'x4' concrete box culvert located under Hwy 24 at the southwest corner of the site.

SITE DESCRIPTION

Existing Site Conditions

The existing site is undeveloped and covered in Rangeland grasses with approximately 90% coverage. The site slopes in a southwest direction with slopes that range from 1% to 2.0%.

Soils

The Soil Conservation Service (NRCS) soil survey for El Paso County has identified the type in this study area as a Truckton Sandy Loam which belongs to a hydrologic soil Group B. It has an Erosion Factor of 0.10 and a 'T' value of 5.

EROSION AND SEDIMENT CONTROL CRITERIA

Areas and Volumes

The proposed Lot 2 is part of the overall Appaloosa Hwy 24 Subdivision development. As part of the initial overall subdivision the following work will have been completed:

- minor grading to install a swale along the proposed east-west property line
- a new storm sewer along the west property line
- a proposed 0.656 ac. ft. Extended Detention Basin (EDB)

The future site imperiousness will increase from 0 to 70% and the runoff coefficient for the 100 year storm will increase from 0.35 to 0.62.

Improvements shall include the construction of a 10,800 sf building, asphalt parking, gravel storage on the east side of the building and perimeter landscaping. The total area of disturbance shall be approximately 0.98 acres. Construction activities shall consist of clearing, grubbing and grading for the new development. Approximately 300 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.

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 Portable Toilet
- Clear and grub the site
- Excavation and fill placement
- Install drainage improvements

- Install permanent landscaping
- 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: June 1, 2019 to August 1, 2019

Expected date on which the final stabilization will be completed: September 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*	300	CY	\$5	\$1,500.00
Permanent Seeding	0.3	AC	\$582	\$ 174.60
Mulching	0.3	AC	\$507	\$ 152.10
Inlet Protection	1	EA	\$153	\$ 153.00
Vehicle Tracking Control	1	EA	\$1,625	\$ 1,625.00
Silt Fence	410	LF	\$4	\$1,640.00
Straw Bale Barriers	6	EA	\$21	\$126.00
TOTAL EROSION & SEDIMENT CONTROL COST				\$5,370.70

^{*}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.).

Should revisions to this SWMP plan be required, the developer shall contact the design engineer for approval of those revisions prior to implementation.

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.

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.

No batch plants are proposed for this development.

Owner Inspection and Maintenance of Constructed BMPs

All inspection logs will include signatures on the logs and be kept on site at all times along with other SWWP records during construction.

- 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 re-

commencing 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.
- 1.4. Record Keeping and Documenting Inspection:

Contractor shall maintain records of an inspection reports, including signed inspection logs, at the project site.

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.

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 BMP's that need to be maintained

Location(s) of BMP's that failed to operate as designed or proved inadequate for a particular location

Location(s) where additional BMP's are needed that were not in place at the time of inspection

Deviations from the minimum inspection schedule

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

Vicinity Map
Grading and Erosion Control Plans

1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS

2. STORM-WATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAINLATION, OR DEGRADATION OF STATE WATERS, ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OF STIE WATERS, INCLUDING WETLANDS

3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELIATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIRMEMENTS OF THE MOST PECENTY VERSION OF THE RELEVANT ADOPTED E JPASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE. THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DEBAINAGE CRITERIA MANUAL, VOLUME 2. AND YEDVATIONS FROM PEGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING REQUILATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING REQUILATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING COMPLETED AND AN EROSION AND STORM-WATER QUALITY CONTROL PERMIT (ESOCOP) ISSUED PRIOR TO COMMENCING CONSTRUCTION THE SWAMP IS THE RESPONSIBILITY OF THE DESIGNATED STORM WATER MANAGEMENT PLAN FOR CONSTRUCTION THE SWAMP IS THE RESPONSIBILITY OF THE DESIGNATED STORM WATER MANAGERS SHALL BE LOCATED ON SITE AT ALL THREE AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

5. ONCE THE ESOOP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL SHE LOCATED ON SITE AT ALL THREE AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

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5.

THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM)
VOLUME I AND IN ACCORDANCE WITH THE STORM WATER MANAGEMENT PLAN (SWMP).

9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT
FACILITIES INTENDED TO CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT
FACILITIES INTENDED TO CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT
BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND
MAINTAINED THROUGHOUT THE DURATION OF THE REARTH DISTURBANCE OPERATION,
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER 30 AS TO EFFECTIVELY
REQUEE ACCELERATE SOIL PROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES
SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY
DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.

11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE
CONVEYANCE OF STORM-WATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA
SHALL BE DESIGNED TO LIMIT THE DISCARAGE TO A NON-EROSIVE VELOCITY
12. CONCRETE WASH WATER SHALL BE CONSTRUCTED ON SLOPES STEEM OR FACILITIES,
INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES,
INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES,
I. EROSION CONTROL BLANKETHIS SHALL BE USED ON SLOPES STEEPER THAN 3.1

14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE
TEMPORABLY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN
ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMPS MAY BE REQUIRED BY EL
PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONTITIONS AND
CIRCUMSTANCES.

CIRCLIMSTANCES

15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED.

MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF

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 STIE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIAL SHALL BE BUSIED, DUMPED, OR DISCHARGED AT THE SITE.

17. THE OWNER, SITE DEVELOPER, CONTRACTOR, ANDOR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SMD THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAWNAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED. AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED CVI-SITE SHALL BE STORED IN A NEAT, ORDERLY MANDER. IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORM-MATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECOM ADMINISTRATOR. IN GRANTING THE USE OF OSCIPIC CHEMICAL IS GRANTED IN WRITING BY THE ECOM RAMINISTRATOR. IN GRANTING THE USE OF OSCIPIC CHEMICAL IS GRANTED IN WRITING BY THE ECOM RAMINISTRATOR. IN GRANTING THE USE OF OSCIPIC CHEMICAL IS GRANTED IN WRITING BY THE ECOM RAMINISTRATOR. IN GRANTING THE USE OF OSCIPIC CHEMICAL IS PROME TORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SHILLS AND PREVENT ANY SHILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SUFFACE OR SUSBURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

21 NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORM-WATER FLOW IN THE FLOW LINE OF THE CURB AND QUITER OR IN THE DITCH-LINE.

22. INDIVIDUAL SHALL COMMEY WITH THE "COLORADO WATER QUALITY CONTROL ACT! (TITLE 29, ARTICLE 6, CRS), AND THE CLEAN WATER ACT! (3) USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DOWN VOLLIME IN AND THE EXM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOT TO CONSTRUCTION (NPDES, FLOOPPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER PEDERAL, STATE, OR COUNTY AGENCIES. THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

23. ALL CONSTRUCTION TRAFFIC MUST ENTEREXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

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

UTILITIES

25 A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED

AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

26 THE SOILS REPORT FOR THIS SITE WAS BEEN PREPARED BY RMG INC FOR THE APPALOOSA HWY

24 SUBDIVISION FILL 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 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 MANAGEMENT

PLAN (SWWIP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR

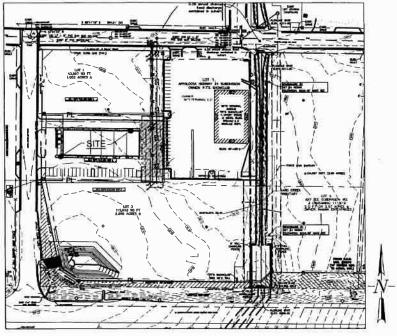
INFORMATION OR APPLICATION MATERIALS CONTACT: COPPIE, WATER QUALITY CONTROL

DIVISION, 4300 CHERRY CREEK DR. S. DENVER, CO 80246-1530, ATTN: PERMITS UNIT PH:

303-692-3500

GRADING AND EROSION CONTROL PLAN APPALOOSA HIGHWAY 24 SUBDIVISION FILING NO. 1A, LOT 2

EL PASO COUNTY, COLORADO



SITE MAP

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 VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANACEMENT 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

e. Colorado department of transportation (CDOT) standard specifications for road and bridge construction
d. CDOT M & S STANDARDS

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

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

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

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

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

9. ALL STORM DRAIN PIPE SHALL BE CLASS HI 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 PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

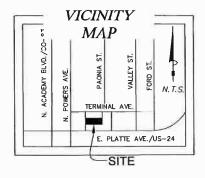
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS:

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

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

CONTRACTOR SHALL OBTAIN 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.



DEVELOPER'S STATEMENT:

The owner will comply with the requirements of the Grading and Erosion Control Plan,

Nathan Derwick President
Copestone General Contractors
1624 S, 21st St Springs, CO 80904

Nus

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. I ACCEPT RESPONSIBILITY FOR MAJEST TY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART OF THE PLAN.

MICHAEL BARTUSE COLORADO P.E # 23329

EL PASO COUNTY:

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

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

JENIFER IRVINE P.E.
COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

LEGEND: ROPOSED MAJOR CONTOUR - PROPOSED MINOR CONTOUR --- --- EXISTING MAJOR CONTOUR ---- FXISTING MINOR CONTOUR

U/G PIPE (MATERIAL AND SIZE SF SF SILT FENCE LIMITS OF CONSTRUCTION CW CONCRETE WASHOUT **7**5 VEHICLE TRACKING CONTROL (588) STRAW BALE BARRIER

DRAWING INDEX

- PL - PROPERTY LINE

(IP)

SHEET #5 GRADING AND EROSION CONTROL COVER DRAINAGE, GRADING & EROSION CONTROL PLAN FROSION CONTROL DETAILS SHEEL **EROSION CONTROL DETAILS SH 2**

INLET PROTECTION

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 STATED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

SUBSURFACE SOIL INVESTIGATION PERFORMED BY ENTECH ENGINEERING, INC

PCD File No. PPR 193



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(now what's below. Call before you dig PROJ NO. 03437

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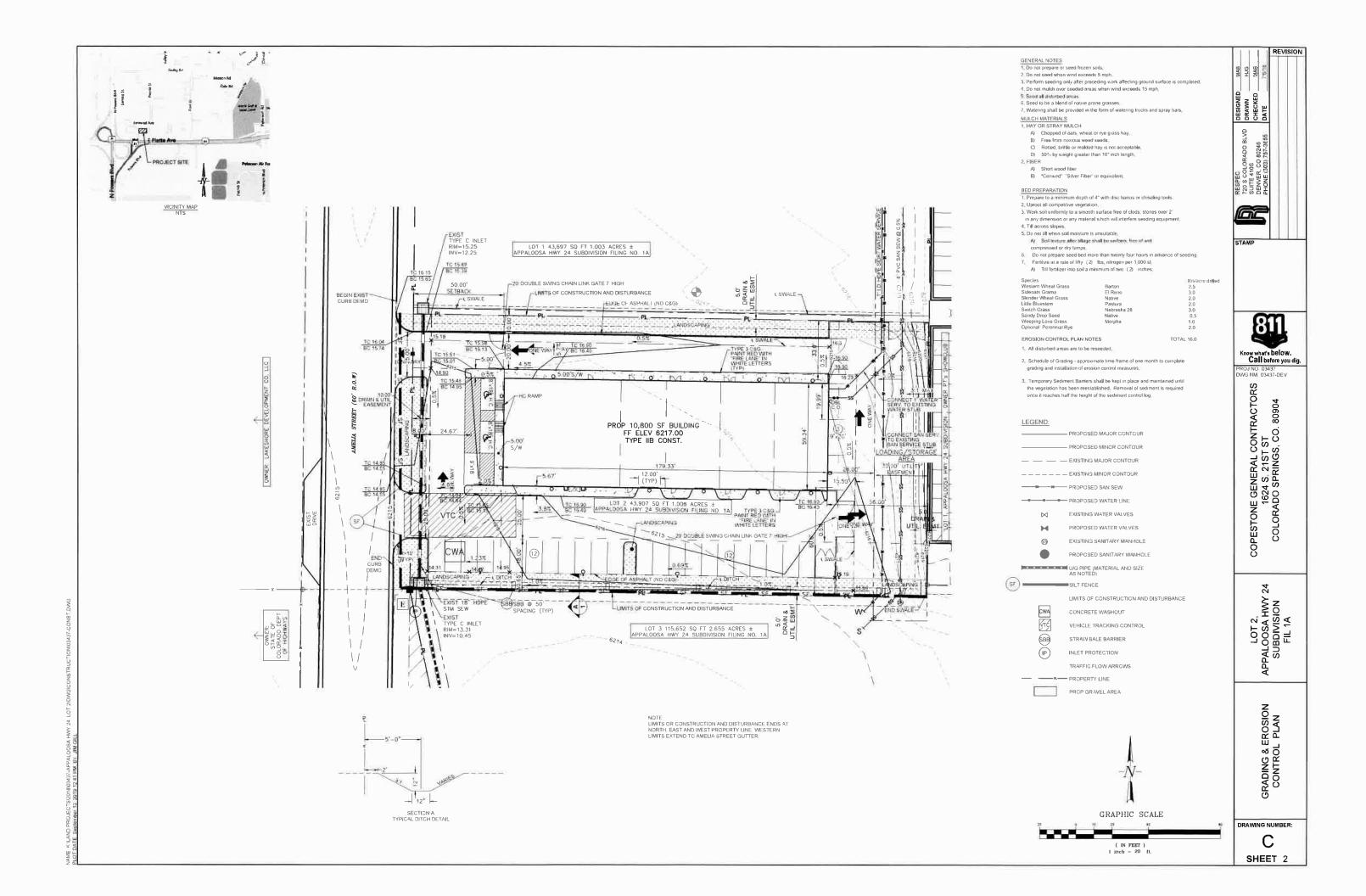
CONTRACTORS T ST 80904 8 STONE GENERAL CO 1624 S. 21ST S' LORADO SPRINGS, (COPESTONE ᄗ

> 24 LOT 2, LOOSA HWY; JBDIVISION FIL 1A A S

> > SHE Æ

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SHEET 1

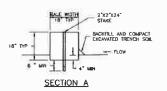


SC-3

STRAW BALE



TRENCH FOR STRAW BALE



SBB-1. STRAW BALE

STRAW BALE INSTALLATION NOTES

I, SEE FLAN VIEW FOR:
-LOCATION(S) OF STRAW BALES,

2 STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.

3 STRAW BALES SHALL CONSIST OF APPROVIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEICH NOT LESS THAN 35 POUNDS

4 WHEN STRAW BALES ARE USED IN SERIES AS A BARRIER, THE END OF EACH BALE SHALL BE TIGHTLY ABUTTING ONE ANOTHER.

5. STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"X18"X18".

6 A UNIFORM ANCHOR TREACH SMALL BE DICAMATED TO A DEPTH OF A" STRAW BALES SMALL BE PLACED SO THAT BINDING THINE IS ENCOURASSING THE VERTICAL SDES OF THE BRACES ALL DICAMATED SOIL SMALL BE PLACED ON THE UPHILL SDE OF THE STRAW BALE(S) AND COMPACTED.

7. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE, WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND

STRAW BALE MAINTENANCE NOTES

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

3. WHERE BAIPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4 STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOLED, ROTTEN, OR DAMAGED BEYONE REPAIR. 5. SECHMENT ACCUMULATED UPSTREAM OF STRAW BALE BAPRIER SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SECMENTS IS APPROXIMATELY & OF THE HIGHET OF THE STRAW BALE BARREES.

6 STRAW BALES ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7 WHEN STRAW BALES ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSON, SEEDED AND MULCHED OR OTHERWISE STAB-LIZED AS APPROVED BY LOCAL BIRSTONCTON.

(DCIALS ADMITED FROM THAN OF PARKER, EXCURSOR, NOT ANALASE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LIDEOD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WINICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTE:

Urban Drainage and Flood Control District Urban Storm Dramage Criteria Manual Volume 3 November 2010 November 2010

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

THE CONTRACTOR SHALL NOTIFY COLORADO STATE UTILITIES CENTRAL LOCATING

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS ORTAINED FROM DEVELOPMENT SERVICES AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH DEVELOPMENT
- SERVICES INSPECTIONS

 STORM-WATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO

SERVICES INSPECTIONS

STORM-MATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION CONTAMINATION OF DEGRADATION OF STATE WATERS, ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OF SITE WATERS, INCLUDING WETLANDS

NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONPORT TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADDPTED EL PASO COUNTY STANDARDS INCLUDING THE LAND DEVLOPMENT CODE. THE REINIMERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL. AND THE DRAINAGE CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL. AND THE DRAINAGE CRITERIA MANUAL THE DRAINAGE CRITERIA MANUAL. AND THE DRAINAGE CRITERIA MANUAL THE DRAINAGE CRITERIA MANUAL AND THE DRAINAGE CRITERIA MANUAL THE MANUAL THE RESONDER OF THE SOOP HAS THE MESSON THE MANUAL THE MANUAL THE SAMPH IS THE RESPONSIBILITY OF THE DESIGNATED STORM-WATER QUALITY CONTROL PERMIT (ESOCP) ISSUED PRIOR TO COMMENTED THE DESIGNATED STORM-WATER MANUAGER SHALL BE LOCATED ON SITE AT ALL TIMES AND SHOULDES THE CONTROL BRAIN TO MANUAL THE MANUAL THE FIELD ONCE THE ESOCP HAS BEEN ISSUED THE CONTRACTOR MAN INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GEC. A PRE-CONSTRUCTION TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COO EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.

ERUSUIN CUN I'RUL MEASUNES AIRE IMPLEMENT EU AND ESTABLISHED, AND EARTH DISTURBANCE. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE. AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PIRSUANT OS TANDARDS AND SPECIFICATION PRESCRIBED IN THE CON VOLUME II AND THE

PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DOM VOLUME II AND THE MIGNERINGS CRITERIA MANUAL (ECM) APPENDIX I

8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORM-WATER MANAGEMENT PLAN (SWMP).

9. ALL TEMPORARY PERSOIN CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATIONS SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION IN ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION ALL DISTURBANCES SHALL BE DESIGNED CONSTRUCTED AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME CONVEYANCE OF STORM-WATER AROUND THROUGH ON FROM THE EARTH DISTURBANCE AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME CONVEYANCE OF STORM-WATER AROUND THROUGH OR FROM THE EARTH DISTURBANCE AREA SHALL BE CONVEYANCE OF STORM-WATER AROUND THROUGH OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-PROSIVE VELOCITY.

SHALL BE DESIGNED TO LIMIT THE DISCHARSE TO A NON-EROSIVE VELOCITY

12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE

SWIP NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNDEF TO STATE WATERS

INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3 1.

14. BUILDING, CONSTRUCTION, EXCAVATION OR OTHER WASTE MATERIALS SHALL NOT BE

TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN

ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL

PASO COUNTY ENGINEERING FOEMED NECESSARY BASED ON SPECIFIC CONTITIONS AND

CIRCUMSTANCES.

15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED,

MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF

IMMEDIATELY.

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

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS TREE SLASH BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIAL SHALL BE BURIED DUMPED OR DISCHARGED AT THE SITE. THE OWNER SITE DEVELOPER CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMCVAL OF ALL CONSTRUCTION DEBRIS DIRT TRASH, ROCK, SEDIMEN AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORM-WATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

18 THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED. AS MUCH AS

PRACTICAL TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER. IN THEIR ORIGINAL CONTAINERS WITH ORIGINAL MANUFACTURER'S LABELS.

19 NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORM-WATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR, IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED
20 BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE

20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE 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 DITCH-LINE.

22. INDIVIDUALS SHALL COMMEYLY WITH THE "COLORADO WATER QUALITY CONTROL ACT (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT (33 USE 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DOLM YOLLIME III AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (MPDES FLOOPPLAIN, 404 FUGITIVE DUST ETC.) IN THE EVENT OF CONPICTOS SETWEETH THESE REQUIREMENTS AND LAWS RULES OR REGULATIONS OF OTHER FEDERAL STATE, OR COUNTY AGENCIES THE MORE RESTRICTIVE LAWS RULES OR REGULATIONS SHALL APPLY.

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

24 PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIEV THE LOCATION OF EXISTING

25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED. AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND 25 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 AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION FOR PROJECTS THAT WILL DISTURE 1 ACRE OR MORE THE COWER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORM-WATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER OUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORM-WATER MAYAGEMENT PLAN (SYMP). OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT COPHE 4330 CHERRY CREEK DR. S. DENVER. CO. 80245-1530. PH. 303-692-3500.

now what's below. Call before you dig.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING SPECIFICATIONS

THE CONTRACTOR SHALL NOTIFY COLORADO STATE UTILITIES CENTRAL LOCATING (1-90-902-1897 AT LEAST AB HOURS PRIOR TO ANY EXCAVATION SO THAT THEY MAY LOCATE 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 THAT MAY CONFLICT WITH OR OBSTRUCT THE NEW CONSTRUCTION ANY REQUIRED RELOCATIONS THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE COORDINATED WITH AND HAVE PRIOR APPROVAL OF EL PASO COUNTY UTILITIES.

DESIGNED DRAWN CHECKED DATE



NG NM. 03437-DEV

. CONTRACTORS 80904 00 PESTONE GENERAL COI 1624 S. 21ST ST COLORADO SPRINGS, C COPESTONE

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> APPALOOSA HWY 2
> SUBDIVISION
> FIL 1A

> > NOTES AND FAILS H

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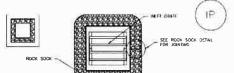
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CURB ROCK SOOK BILLT PROTECTION INSTALLATION NOTES

- 1 SEE ROCK SOCK DESIGN DEFAIL INSTALLATION REQUIREMENTS
- 2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPEN IN THE OPPOSITE DIRECTION OF PLOW.
- 4 AT LEAST TWO CURB SOCKS IN SERVES ARE REQUIRED UPSTREAM OF ON-GRADE MLETS

Urban Dramage and Flood Control District



SC-6 SC-6

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SLAP/AREA INLET PROTECTION INSTALLATION INCTES 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS

2 STRAW WATLES/SEDMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR WELTS IN PERMOUS AREAS INSTALL PER SEDMENT CONTROL LOG DETAIL.

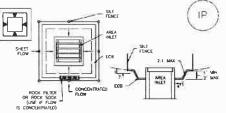


IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SLT FINCE MLET PROTECTION INSTALLATION MOTES

Urban Drainage and Flood Control District

- 2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MARQUADA SPACING OF 3 FEET
- 3, STRAW MATTLES/SEDMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERMOUS AREAS. INSTALL PER SEDMENT CONTROL LOG DETAIL.

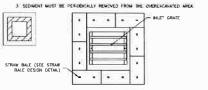


Inlet Protection (IP)

IP-5. OVEREXCAVATION INLET PROTECTION DIEFERCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF HILET PROTECTION IS PRIMARBLY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FRAM, CRADE AND SHOULD BE USED ONLY FOR INJETS WITH A RELATIVELY SMALL CONTRIBUTING DAYHAGCE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2.1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW



IP-6. STRAW BALE FOR SUMP INLET PROTECTION

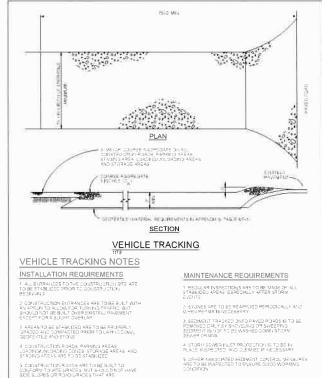
STRAY BUT BARRIER HELT PROTECTION INSTALLATION HOTES

I SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS 2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

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

SC-1

Know what's below. Call before you dig.



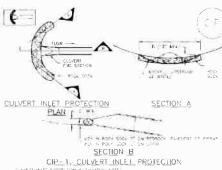
City of Colorado Springs Stormwater Quality

Inlet Protection (IP)

SC-6 SC-6

August 2013 August 2013

Inlet Protection (IP)



CHAREST TRUET OF POTESTION INSTALLADOS MOTES

1 SHE FIRS MEA FOR - COATION OF CHEVERT NEET PROTECTION

2 E PO 2 SX | ESCH. 67A + R ROOT CPA SECH. (URL WINES AT 1004) 15

CAMERY HALES ERRORGED IN MAINTENANCE HOPES

1. BERTOLLERS LEVEL MENTALE SEE MANION FILL IN LITECTIC LARFEST NO COLUMN MANITONING OF BURD SOULD BE PROFUNE HOT RESTORM (SPECT OWN) AS SOURCE AND A NOVEMBER AND MODELS CRELINAVE A STORM THAT CAUSED SPECIAL BRIDGE HAVE CAUSED SELECTION, AND EFFECT MEDICAL SERVICES AND MANIFORMED.

FREDUENT CESEPVATIONS AND MAGRIMAGE FRE NECESSARY TO MENTAN ENTER IN EFFECTIVE (FRENCH CONTINUE INSTITUTION ARE CORRECT E MEASURED FROM THE DECEMBER OF THE OFFICE OF THE PROPERTY OF THE PROP

3 WHERE BUY! HAVE KILED FEPAME OF REPLACEMENT EMOULD BE INTUITED UPON DISCOURT OF THE 1938-0 6 SERVENT AS IMMERTED DESTREAM OF THE CONVERT SHALL AS REMOVED WHEN THE SERVENT PERMITS IN THE HEIGHT OF THE ROCK SOCK.

5 CL WELLE, ET PAGEGICI, SMAL, PREAL, N. PAGELL, N. C. THE LESTREAU DISTURBED. (Blind School State or Special State of Francisco Road Sold) NOTE WARY BUS SOCTIONS HAVE BUR STEAKS THAT WAS PROMUDED STANDART DETAILS CHIEFLE WITH LURGOCKNESS ACT TO WHICH DETAIL RESILLING USED WITH DETAILS ARE NOTICE.

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

GONEPAL NEED PROTECTION INSTALLATION NOTES

1 SEE PLAN WEW FOR:
-LOCATION OF INLET PROTECTION
-TYPE OF INLET PROTECTION (IP.1, -P.2, IP.3, IP.4, IP.5, IP.8)

3. MANY JURSDICTIONS HAVE BMP DETAILS THAT VARY FROM LIDEOD STANDARD DETAILS. CONSULT WITH LOCAL JURSDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DETAILS ARE NOTED.

IN ET PROTECTION MAINTENANCE NOTES

I WISPECT BUPS EACH WORKDAY, AND MANTAIN THEM IN EFFECTIVE OPDRATING CONDITION MAINTENANCE OF BURS SHOULD BE PROACTIVE, NOT REACTIVE INSPECT BURS AS SOON AS POSSIBLE (AND ALMAYS WITHIN 24 HOURS) FULLDIMING A STORM THAT CHUSES SURFACE EROSON, AND PERFORM RECESSARY MAINTENANCE.

2 FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPN IN EFFECTIVE OPERATING CONDITION INSPECTIONS AND CORRECTIVE MEASURES SHOULD DE DECIMENTED THROPHISMLY.

3. WHERE BUIPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

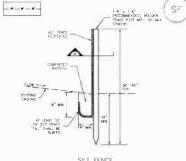
5. PALET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM O-STURBED AREA IS PERMANENTLY STABLUZED, UNLESS THE LOCAL AURISMICTION APPROVES EARLIER REMOVAL OF BALE! PROTECTION IN STREETS.

6. WHEN MILET PROTECTION AT AREA MILETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANAER APPROVED BY THE LOCAL JURISDICTION.

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

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Silt Fence (SF)





SF-1. SILT FENCE

Silt Fence (SF)

SELFERSE INSTALLATION HOTES

I SUI FORCE MUSI BE PLACED AMAY FROM THE IDE OF THE SLOPE TO ALLOW FOR MUTER POROMIC SELFRACED AT THE DOLGO A SLOPE SHOULD SELFMENTALED IN A FLAT LOCATION AT LESSET SCHOOL TOP (1-5 FT) FIRST THE TOE OF THE SLOPE TO ALLOW ROOM FOR 1. A UNFFORM B" X 4" ANCHOR IRREGO SHALL BE ESCANTED USING TRENCHER OR SL"
TOCK INSTALLATION CONCE. NO TOAD CRACERS BACCHIES OR SMILAR EDUPHION SHALL
TO LIGHT

3 COMPAC' IN-CYCR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING COMPACTION SHALL BE SUCH THA" SET FEVGE RESISTS BONG PALLEC OUT OF ANCHOR REDICH BY HAND

4 ST, FENCE SHALL BE PULLED FOH AS IT IS ANOHORED TO THE STAYES THORE SHOULD BE NO NOTICEABLE SAC BETWEEN STAYES AFTER IT HAS BEEN ANCHORED TO THE STAYES 5 SLT TENCE FAMING SHALL ME ANCHONED TO THE STAKES (FSING IT HEAVY DUTY STAPLES OF NACS WITH IT NEXOS STAPLES AND HALS SHOULD BE PLACED 3T ALONG THE FARMIC DOWN THE STAKET.

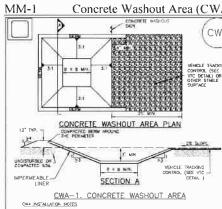
SET FERTE MAINTENANCE HOTES

2. FREQUENT OBSERVATIONS AND MANTENANCE HAVE RECESSARY TO MANTAIN BURN METERSTAND CORPORATE OF INSPECTIONS AND CORPORTE MEASURES SHOULD SE DOCUMENTED INFORMATION.

3 INFERE BAR'S HAVE FALLED REPAIR OR REPLACEMENT SHOULD BE WINTED UPON DISCORDEY OF THE TAILURE. 4 SEDMENT ACCUMULATED UPLINE OF THE SULT FENCE SHALL BE PEMONED AS NELLED TO MANZAN THE PARCHIMAGES OF THE BUP. THYCALLY WHEN DEPTH OF ACCUMULATED TECHNISTIC AN APPROXIMATELY ST.

5. REPAIR OR REPLACE SET TOWER WHEN THERE ARE SOAS OF WEAR, SUCH AS SACONG TEARING, OR COLLAPSE 6 S.L. FENCE IS TO REMAIN IN PLACE LINE, THE UPSTREAM DISTURBED WHICH IS STABLE, AND APPRIVACE BY THE LOCAL AUROSCICTION OF IS REPLACED BY AN EQUIVALENT PORMETER. SECONDAY CONTROL BUY 7. WHEN SKI FENCE IS REMONED, AN IDSTURBED AREAS SHALL BE CONDED WITH TOPSOL SCIDIC AND MALCHED OR OTHERWISE STABLIZED AS APPROVED BY LOCAL JURISLICHON. (STA, GOTO THE OR IT FROM INJUSTIC OF IT AREA OF MARKET AND A

NOTE MANY MASSACTIONS HAVE BUP DETAILS HAT VARY FROM USECL STANDARD CETAINS CONSULT WITH LOCAL CURESCITIONS AS TO WHICH CETAIL SHOULD BE LISTE WHEN DIFFERENCES AS TO WHICH CETAIL SHOULD BE LISTE WHEN



1 SEE PLAN VIEW FOR:
-DWA PISTALIATION LOCATION

2 OF NOT LOCATE AN USUBJECT CLAW HITCHEN (40° OF MAY NATURAL PORTINGE PIETURE) AND WHITESOMY DO NOT LOCATE WITH 1,000° OF MAY 15.5 OR DEBENOR, WATER COUNCEST. STEE CONSTRUCTION MAKE THE WITH THE STATE OF THE MAY SEE FOR PROPERTY OF THE CAN MAKE THE BRISTALED WITH AN UNFREAKENED, LEBER (15 ML MM. THICHOSES) OR SUBFACE. STORAGE, ALTOWARTINGS USING PREPARENCIALE CONCRETE MASHOULD DOMEST OR UNDER DROWN STORAGE, OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STORAGE. OR STANDAL OR USE STANDAL OR USE STANDAL OR USE AND THE WASHOULD STORAGE. OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STORAGE. OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR STANDAL OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR USE STANDAL OR USE AND THE WASHOULD STANDAL OR USE

3 THE CHA SHALL BE INSTALLED PROR TO CONCRETE PLACEMENT ON SITE.

4 CMA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8 BY 8 SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OF FLATTER THE PIT SHALL BE AT LEAST 3 DEEP. 5. BERM SURROUNDING SIDES AND SACK OF THE OWN SHALL HAVE MISSIMUM HEIGHT OF

IS MERCED TRACKING PAIR SHIPLE MY SLOTTED ITS TOWNEDS THE CHA. 7 SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEMHERE AS INCESSARY TO CLEARLY INCIDENTE THE LOCATION OF THE CWA TO OPERATORS OF CONDECTE TRACKS AND PLAP PLAY.

IS HER EXCAVATED MATTERN FOR EXPRINTER BERN CONSTRUCTION.

CWA MAINTINANCE NOTES

2. FREQUENT DESERVATIONS AND MANTEMANCE ARE NECESSARY TO MAINTAIN EMPH IN EFFECTIVE CREATING CONDITION RESPECTIONS AND CORRECTIVE MEASURES SHOULD BE CONTINUED TO TRANSPORT

A MHERE HAVE HAVE NAMED SEPAR OR REPLACEMENT SHOULD BE INTUITED JETS

5 CONCRETE WASHOUT MATER, MASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TICHT CONTINUED AND INSPECTO OF PROPERTY.

E THE CWA SHALL REMAIN IN PLACE LINES, ALL CONCRETE FOR THE PROJECT IS PLACED. A MIN THE TWA I REMOVED COVER THE DISTURBED AREA WITH TOP SON, SEED AND MULCH OF DITHERS STABILIZED IN A MAKINER APPROVED BY THE LOCAL MURICIPALIZED.

NOT TO SCALE

ADMICRISH EVACUOR Concrete Washout Area (CWA) CWA CONTROL (SEE VTC DETAIL) OR OTHER STABLE

 \mathfrak{m} Know what's below. Call before you dig DJ NO: 03437 WG NM 03437-DEV . CONTRACTORS .T ST COPESTONE GENERAL CO 1624 S. 21ST ST COLORADO SPRINGS, C

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APPALOOSA HWY 2
SUBDIVISION
FIL 1A

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DRAWING NUMBER:

C SHEET 4