EROSION CONTROL AND STORMWATER MANAGEMENT PLAN FOR HANNAH RIDGE AT FEATHERGRASS FILING NO. 3

Applicant: Feathergrass Investments, LLC 4715 N. Chestnut Street Colorado Springs, CO 80907

ATTN: Mr. Kenneth P. Driscoll

Prepared By: Classic Consulting Engineers & Surveyors, LLC 619 N. Cascade Avenue, Suite 200 Colorado Springs, CO 80903

Job no. 1116.00



EROSION & STORMWATER QUALITY CONTROL PLAN FOR HANNAH RIDGE AT FETHERGRASS FILING NO. 3

COLORADO DISCHARGE PERMIT SYSTEM STATEMENT (CDPS)/ EROSION AND STORMWATER QUALITY CONTROL PLAN (ESQCP)

Site Inspector

The following Erosion and Stormwater Quality Control Plan (ESQCP) is a detailed account of the requirements of the City of Colorado Springs Drainage Criteria Manual, Volume 2 – Stormwater Quality Policies, Procedures and Best Management Practices. The main objective of this plan is to help mitigate the increased soil erosion and subsequent deposition of sediment off-site and other potential stormwater quality impacts during the period of construction from start of earth disturbance until final landscaping and other potential permanent stormwater quality measures are effectively in place.

This document must be kept at the construction site at all times and be made available to the public and any representative of the Colorado Department of Health - Water Quality Control Division, if requested.

This report is also proposed to meet all requirements of the Colorado Discharge Permit System for Construction Activity. If any discrepancies between this report and Volume 2 exist, the City Manual will prevail.



EROSION & STORMWATER QUALITY CONTROL PLAN FOR HANNAH RIDGE AT FETHERGRASS FILING NO. 3

TABLE OF CONTENTS

\triangleright	SI	TE DESCRIPTION	
		RECEIVING WATER(S)	Page 1
	•	PROPOSED CONSTRUCTION ACTIVITY	Page
	•	PROPOSED SEQUENCE OF ACTIVITIES/ CONSTRUCTION TIMING	Page
	•	EROSION & SEDIMENT CONTROL	Page 2
	•	DEVELOPMENT AREA	Page 2
	•	SOILS INFORMATION	Page 3
	•	EXISTING SITE CONDITIONS.	Page (
	SI	TE MAP (See Appendix)	
\triangleright	ST	CORMWATER MANAGEMENT CONTROLS	
	•	SWMP ADMINISTRATOR	Page 4
	•	POTENTIAL POLLUTANT SOURCES	Page 4
	•	BMPS FOR POLLUTION PREVENTION	Page !
	•	BMP SELECTION	Page (
	•	MATERIAL HANDLING & SPILL PREVENTION	Page (
	•	CONCRETE/ASPHALT BATCH PLANTS	Page 7
	•	WASTE MANAGEMENT & DISPOSAL INCLUDING CONCRETE WASHOUT	Page 7
	•	DOCUMENTING SELECTED BMPS	Page 7
	•	NON-STORMWATER DISCHARGES	Page
	•	STORMWATER DEWATERING	Page 7
	•	REVISING BMPS AND THE SWMP	Page 8
	FI	NAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT	
\triangleright	IN	ISPECTION AND MAINTENANCE PROCEDURES	
	•	INSPECTION SCHEDULES & PROCEDURES	Page 9
	•	SWMP OWNER/ADMINISTRATOR INSPECTION PROCEDURES & SCHEDULES	Page 9
	•	BMP MAINTENANCE/REPLACEMENT & FAILED BMPS	Page 9
	•	RECORD KEEPING AND DOCUMENTING INSPECTIONS	Page 10

APPENDIX

VICINITY MAP
COPY OF GENERAL PERMIT APPLICATION
CONTRACTOR SEQUENCE OF ACTIVITIES
COLORADO DISCHARGE PERMIT SYSTEM CHECKLIST
OPERATION & MAINTENANCE INSPECTION RECORD
STANDARD BMP DETAILS w/ INSTALLATION & MAINTENANCE REQUIREMENTS



EROSION & STORMWATER QUALITY CONTROL PLAN FOR HANNAH RIDGE AT FETHERGRASS FILING NO. 3

SITE DESCRIPTION

Revise or delete

The proposed Hannah Ridge development is located in the south one-half of Section 32, Township 13 South, Range 65 west of the 6th p.m. and the northeast one-quarter of Section 5, Township 14 South, Range 65 West of the 6th p.m., in El Paso County, Colorado. The project site is on Constitution Avenue, west of Marksheffel Road and east of the Old Rock Island Railroad right of way. The majority of the site is located on the north side of Constitution Avenue with a minor portion on the south side of Constitution Avenue, adjacent to Marksheffel Road. A portion of the land was previously platted as Akers-Acres Subdivision Filing No. 1.

The property is located in the south one-half of Section 32, Township 13 South, and in the northeast quarter of Section 5, Township 5 South Range 65 West of the 6th Principal Meridian, in County of El Paso, State of Colorado. The project site is shown on the Vicinity Map in the Appendix of this report.

No wetlands, springs, landscape irrigation return flows or construction dewatering is anticipated on this site. Should any of the above items occur unexpectedly, BMPs shall be implemented immediately. The local regulatory agency shall be notified for approval of the BMPs and methods.

RECEIVING WATERS

Name of Receiving Water(s) Sand Creek east fork

Size/Type/Location of Outfall(s) Existing Concrete box culvert at Constitution

Ave.

Discuss discharge connection to

Municipal system (include system name,

north of Constitution Ave then discharged into

location, and ultimate receiving water(s): existing box culvert

PROPOSED CONSTRUCTION ACTIVITY

Proposed construction activities within this project include overlot grading to of the project site, roadway infrastructure and utility infrastructure.

PROPOSED SEQUENCE OF ACTIVITY/CONSTRUCTION TIMING

Proposed construction activities within this project include overlot grading, installation of wastewater mainline, storm sewer pipe, water mainline, curb & gutter, asphalt, dry utilities (gas/electric/telecom) as



well as future home building construction. Sequence of activities will be based upon site contractor timing and scheduling. Upon site contractor selection, contractor to include sequence of activities schedule in the section provided in the Appendix of this report. A standard sequence of events typically includes the following, as applicable:

- 1) Install perimeter, interior & exterior BMPs
- 2) Clear and grub site
- 3) Rough overlot grading
- 4) Excavation & installation of utilities
- 5) Building construction
- 6) Paving, curb & gutter, sidewalk, landscaping.

Add temporary and permanent seeding and mulching

• EROSION AND SEDIMENT CONTROL

Erosion control measures shall be implemented in a manner that will protect properties and public facilities from the adverse effects of erosion and sedimentation as a result of construction and earthwork activities. In order to prevent a net increase of sediment load, Best Management Practices will be implemented during the construction life of this project. A silt fence will be built as depicted on the plans. All roads will be inspected to ensure that sediment from on-site construction activity is not being discharged with the stormwater. Roadways shall be swept as needed for controlling tracking of mud onto public roadways. Vehicle tracking control pads will aid in minimizing soil tracking onto roadways. All disturbed areas, not sodded, will be reseeded with a native seed mix and watered until a mature stand is established. All areas disturbed will be protected with silt fence, diversion swales and temporary sediment traps until such time as the site has been re-vegetated. Vegetation and vegetated buffers shall be preserved as much as possible. Wherever feasible, vegetated buffers shall be maintained free from vehicle/equipment parking, storage, stockpiles, or other impacts.

DEVELOPMENT AREA

Total Site Area	8.31	Acres
Site area to be disturbed	8.31	Acres
Percent disturbance	100	%



SOILS INFORMATION

The average soil condition reflects Hydrologic Group "A" and "B" (Blakeland, Blendon, Truckton sandy loam) as determined by the "Soil Survey of El Paso County Area", prepared by the Soil Conservation Service. Based upon the current proposed development of this site, the following runoff coefficients would be realized:

Existing site runoff coefficient = = 0.25

Developed site runoff coefficient =0.8/.35 lots & streets/landscaped & seeded areas

EXISTING SITE CONDITIONS

The site is located within the Sand Creek Drainage Basin. Currently, the majority of this site drains to the center of the site in a southerly direction. Stormwater drains to the south across this site and is conveyed to the east along existing Constitution Avenue. An existing concrete box culvert under Constitution Avenue will conveys the stormwater to the south along the historic drainage path.

This site is currently 80 % vegetated with native grasses and has existing slopes ranging from approximately 2% to 30% percent.

There are no areas designated as wetlands within the development limits for this report.

Are there batch plants in sitemap this filing?

Included in the appendix of this report is the approved overlot grading plan for the subject property which will serve as the SWMP site map. This document contains site specific grading and crosion control BMP measures as required and approved by the El Paso County Engineering division. Limits of disturbance, areas of cuts/fills, proposed stockpile areas, areas used for storage of materials, equipment, soil, or waste, batch plants, minimum and maximum cut/fill slopes, existing limits of significant vegetation, locations of springs, streams, and/or wetlands, and existing facilities (including but not limited to: detention/drainage facilities, structures, retaining



walls, gas main, water main, wastewater main, electric and telecom vaults, fences, sidewalks, trails, curbs and streets) will be represented on this plan as applicable. The site map will depict locations of specific interim and ultimate stormwater management BMPs throughout the lifetime of the project. Erosion control cost assurances must be posted with El Paso County in the amount listed on the EGF prior to approval of the overlot grading plan. The site map/overlot grading plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule. All construction BMP details will be included in the appendix of this report. Detail sheets include installation and maintenance requirements. Also reference "Drainage Criteria Manual, Volume 2 Stormwater Quality Policies, Procedure, and Best Management Practices" for additional information and guidance regarding construction BMPs.

STORMWATER MANAGEMENT

SWMP ADMINISTRATOR

The SWMP Administrator can be an individual(s), position, or title – this entity is responsible for developing, implementing, maintaining, and revising the SWMP. The Administrator is the contact for all SWMP related issues and is the entity responsible for its accuracy, completeness, and implementation. Therefore, the SWMP Administrator should be a person with authority to adequately manage and direct day to day stormwater quality management activities on the subject site. Reference the Appendix of this report for the SWMP permit application which names the individual/entity applying for the permit and naming the Administrator of the SWMP.

POTENTIAL POLLUTANT SOURCES

Potential pollutant sources which shall be evaluated for potential to contribute pollutants to stormwater discharge from the subject site may include the following:

- o Disturbed and stored soils
- Vehicle tracking of sediments
- Management of contaminated soils
- Loading and unloading operations
- Outdoor storage activities (building materials, fertilizers, chemicals, etc.)
- Vehicle and equipment maintenance and fueling



- Significant dust or particulate generating processes
- Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, oils,
 etc.
- On-site waste management practices (waste piles, liquid wastes, dumpsters)
- Concrete truck/equipment washing, including the concrete truck chute associated fixtures and equipment
- Dedicated asphalt and concrete batch plans
- o Non-industrial waste sources such as worker trash and portable toilets
- Other areas or procedures where potential spills can occur.

The location and description of these areas are shown on the attached SWMP Site Map, as applicable.

BMPS FOR POLLUTANT PREVENTION

The following are common practices to mitigate potential pollutants:

- Wind erosion shall be controlled by sprinkling site roadways and/or temporary stabilizing stockpiles. Each dump truck hauling material from the site will be required to be covered with a tarpaulin.
- O Sanitary facilities shall be placed at a minimum of 10' from any curbline and 50' from any inlet. If not feasible for the project, use of a secondary containment shall be implemented.
- O Equipment fueling and Maintenance Services a designated fueling area will be established to contain any spill resulting from fueling, maintenance, or repair of equipment. Contractors will be responsible for containment, cleanup, and disposal of any leak or spill and any costs associated with the cleanup and disposal.
- Chemical products shall be protected from precipitation, free from ground contact, and stored properly to prevent damage from equipment or vehicles.
- Material stockpiles (soils, soil amendments, debris/trash piles) All construction trash and debris will be deposited in the dumpster.
- O Sediment and Migration of Sediment Sweeping operations will take place as needed to keep roadways maintained. The perimeter of the site will be evaluated for any potential impact resulting from trucking operations or sediment migration from the site. BMP devices will be placed to protect storm system inlets should any roadway tracking or sediment migration occur.



O Snow removal and/or stockpiling will be considered prior to placement at the site. Snow stockpiles must be kept away from any stormwater conveyance system (i.e., inlets, ponds, outfall locations, roadway surfaces, etc.).

BMP SELECTION

Selection of the appropriate BMP will limit the source of the pollutant. Guidance for the selection process can be found by referencing the City of Colorado Springs "Drainage Criteria Manual Volume 2".

During grading and construction activity for the subject site, silt fence will be installed along the perimeter of the site as well as at the limits of grading within the project. Check dams will be installed along all permanent and temporary diversion swales to minimize erosion in areas of concentrated stormwater. Temporary diversion swales will be installed to a minimum of 1% slope to divert stormwater to several proposed sediment basins intended to collect stormwater and filter the sediment before conveyance into the proposed storm systems. Inlet protection will be installed at all proposed and adjacent inlets to ensure no downstream pollutants will enter storm sewer facilities. Vehicle tracking control pads will be installed at all access points to the property. Regular maintenance and inspection of these facilities will be necessary throughout grading operations and until vegetation is reestablished to ensure proper function of the sediment basin temporary outlet structures.

MATERIAL HANDLING & SPILL PREVENTION

Where materials can impact stormwater runoff, existing and planned practices that reduce the potential for pollution must be included in a spill prevention plan, to be provided by the contractor. Spill prevention plans shall include

- o Notification procedures to be used in the event of an accident
- o Instruction for clean-up procedures, and identification of a spill kit location
- o Provisions for absorbents to be made available for use in fuel areas, and for containers to be available for used absorbents
- O Procedures for properly washing out concrete truck chutes and other equipment in a manner and location so that the materials and wash water can not discharge from the site and never into a storm sewer system or stream.



CONCRETE/ASPHALT BATCH PLANTS

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices used to control stormwater pollution from dedicated asphalt or concrete batch plants.

Are there batch plants in this filing?

WASTE MANAGEMENT AND DISPOSAL INCLUDING CONCRETE WASHOUT

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices implemented at the site to control stormwater pollution from all construction site wastes (liquid and solid) including concrete washout activities.

DOCUMENTING SELECTED BMPS

As discussed in the SITE MAP section of this report, documentation of the selected BMPs will be included on the site map / overlot grading plan included in this report. The site map/overlot grading plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule.

NON-STORMWATER DISCHARGES

Except for emergency fire fighting activities, landscape irrigation return flow, uncontaminated springs, construction dewatering and concrete washout water, the SWMP permit covers only discharges composed entirely of stormwater.

STORMWATER DEWATERING

The discharge of pumped water, ONLY from excavations, ponds, depressions, etc., to surface waters or to a municipal separate storm-sewer system is allowed by the Stormwater Construction Permit as long as the dewatering activity and associated BMPs are identified in the SWMP (including location of activity), and the BMPs are implemented in accordance with the SWMP. Where applicable, all stormwater and groundwater dewatering practices implemented to control stormwater pollution for dewatering must be amended in the SWMP and Site Map by the contractor.



REVISING BMPs AND THE SWMP

The implemented BMPs will need to be modified and maintained regularly to adapt to changing site conditions and to ensure that all potential stormwater pollutants are properly managed. The BMPs and pollutant sources much be reviewed on an ongoing basis by the Administrator as assigned by the Permit. With any construction project, special attention must be paid to construction phasing and therefore revisions to the SWMP to include any additional or modification to the BMPs and SWMP report. The SWMP must be modified or amended to accurately reflect the field conditions. Examples include - but are not limited to – removal of BMPs, identification of new potential pollutant procedures, and changes to information provided in the site map/overlot grading plan. SWMP revisions must be made prior to changes in site conditions. The SWMP should be viewed as a "living document" throughout the lifetime of the project.

FINAL STABILIZATION AND

LONG-TERM STORMWATER MANAGEMENT

Permanent stabilization of the site includes seeding and mulching the site. Seeding and mulching consists of loosening soil, applying topsoil (if permanent seeding) and drill seeding disturbed areas with grasses and crimping in straw mulch to provide immediate protection from raindrop and wind erosion. As the grass cover becomes established, provide long term stabilization of exposed soils.

Once the construction activity ceases permanently, the area will be stabilized with permanent seed and mulch. All areas that will not be impacted by construction of buildings will be seeded and landscaped as feasible. After seeding, each area will be mulched with straw. The straw mulch is to be tacked into place by a disc with blades set nearly straight. Topsoil stockpiles will be stabilized with temporary seed and mulch. Areas of the site that are to be paved will be temporarily stabilized until asphalt is applied.

The temporary perimeter controls (silt fence or equivalent) will not be removed until all construction activities at the site are complete and soils have been stabilized. Upon completion of construction activities, the site shall be inspected to ensure all equipment, waste materials, and debris have been removed. All other BMPs or other control practices and measure that are to remain after completion of construction will be inspected to ensure they are properly functioning. 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% of pre-disturbance levels. For purposes of the SWMP, establishment of a vegetative cover capable of providing erosion control equivalent to the pre-existing conditions at the site can be considered final stabilized.

INSPECTION AND MAINTENANCE PROCEDURES

All drainage facilities will be monitored using the enclosed "Monitoring and Maintenance Inspection Record" checklist (Appendix II).

• SWMP OWNER/ADMINISTRATOR INSPECTION PROCEDURES & SCHEDULES

The Owner/Administrator shall adhere to the following inspection procedures during the development of the site:

- 1. Make thorough inspection of the stormwater management system at least every 14 days.
- 2. Make thorough inspection of the stormwater management system within 24 hrs of each precipitation event that creates runoff.
- 3. If any system deficiencies are noted, corrective actions must begin immediately. Documentation of inspection must be available if requested.
- 4. Records of the site inspections or facility replacement modifications must be kept at the site within this report.
- 5. 30 day inspections must take place on this site where construction activity is complete, but vegetative cover is still being established.

In this report's appendix, a site inspection form has been included for use by the Inspector. Upon completion of this form, the document is to be kept in the provided folder also in the rear of this report.

BMP MAINTENANCE / REPLACEMENT & FAILED BMPs

The Stormwater Construction Permit requires that all erosion and sediment control practices and other protective measures identified in the SWMP be maintained in effective and operation condition. A preventative maintenance program should be in place to prevent BMP breakdowns and failures by proactively maintaining or replacing BMPs and equipment. The inspections process should also include procedures to ensure that BMPs are replaced or new BMPs added to adequately manage the pollutant sources at the site. This procedure is part of the ongoing process of revising the BMPs and SWMP as previously discussed, and any changes shall be recorded in the SWMP.



RECORD KEEPING AND DOCUMENTING INSPECTIONS

The following items must be documented as part of the site inspections:

- o Inspection date
- o Name(s) and title(s) of personnel making inspection
- o Location(s) of discharges of sediment or other pollutants from site
- o Location(s) of BMPs that need to be maintained
- o Location(s) of BMPs that fail to operate as designed or proved inadequate in a particular location
- o Location(s) where additional BMPs are needed that were not in place at time of inspection
- o Deviations from the minimum inspection schedule
- Descriptions of corrective action for items above including dates and measures taken to prevent future violations
- O Signed statement of compliance added to the report after correction action has been taken

PREPARED BY:

Classic Consulting Engineers & Surveyors, LLC

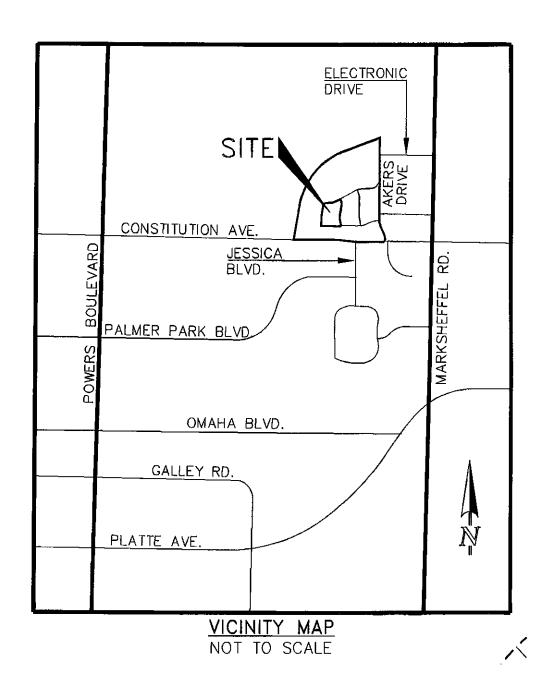
Kyle R. Campbell, P.E. Division Manager

sm/1116.00/reports/ swmp report fil 3.doc



VICINITY MAP





COPY OF PERMIT APPLICATION

General permit application for stormwater discharges associated with construction activity.





Dedicated to protecting and improving the health and environment of the people of Colorado

ASSIGNED	PERMIT NUMBER
Date Received	
	Revised: 3-2016

STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

PHOTO COPIES, FAXED COPIES, PDF COPIES OR EMAILS WILL NOT BE ACCEPTED.

For Applications submitted on paper - Please print or type. Original signatures are required.

All items must be completed accurately and in their entirety for the application to be deemed complete. Incomplete applications will not be processed until all information is received which will ultimately delay the issuance of a permit. If more space is required to answer any question, please attach additional sheets to the application form. Applications or signature pages for the application may be submitted by mail or hand delivered to:

Colorado Department of Public Health and Environment, 4300 Cherry Creek Drive South, WQCD-P-B2, Denver, CO 80246-1530

For Applications submitted electronically

Please note that you can ONLY complete the feedback form by downloading it to a PC or Mac/Apple computer and opening the Application with Adobe Reader or a similar PDF reader. The form will NOT work with web browsers, Google preview, Mac preview software or on mobile devices using iOS or Android operating systems.

If application is submitted electronically, processing of the application will begin at that time and not be delayed for receipt of the signed document.

Any additional information that you would like the Division to consider in devotation the powers should be presided with the application

include effluent data and/or	modeling and planned po	issuit to consider in developing the permit should be provided with the application. Examples billutant removal strategies.
DO NOT F	PAY THE FEES NOW Disturbed Less than 1 at 1-30 acres	2016, invoices will be based on acres disturbed. Invoices will be sent after the receipt of the application. Acreage for this application (see page 4) (\$83 initial fee, \$165 annual fee) (\$175 initial fee, \$350 annual fee) 30 acres (\$270 initial fee, \$540 annual fee)
PERMIT INFORMATION	_	
Reason for Application:	NEW CERT	RENEW CERT EXISTING CERT#
Applicant is:	Property Owner	Contractor/Operator
	ON FORMAL NAME: E	ed lite Properties of America/Classic Homes ational control over day to day activities - may be the same as owner.
Responsible Person (Title):	Development M	anager
Currently Held By (Person):	FirstName: Ben	LastName: Bustos
Telephone:	719-592-9333	Email Address: bbustos@classichomes.com
Organization:	Elite Properties	of America/Classic Homes
Mailing Address:	6385 Corporate	Drive, Suite 200
City:	Colorado Spring	S State: CO Zip Code: 80919
Per Regulation 61 : All re	ports required by perm	ts, and other information requested by the Division shall be signed by the permittee or by a duly

authorized representative of that person. A person is a duly authorized representative only if:

- (I) The authorization is made in writing by the permittee
- (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative

may thus be either a named individual or any individual occupying a named position); and

(iii) The written authorization is submitted to the Division

2)	OWNER - party has own	nership or long term lease of property - ma	y be the same as the operator.	
	Same as 1) Permit Ope			
	Responsible Person (Title):	Development Manager		
	Currently Held By (Person):	·	LastName: Bustos	···
	Telephone:		bustos@classichomes.com	
	Organization:	Elite Properties of America/Cl		
	Mailing Address:	6385 Corporate Drive, Suite 2	200	· · · · · · · · · · · · · · · · · · ·
	City:	Colorado Springs	State: CO	Zip Code: 80919
3)	I. The authorization I. The authorization II. The authorization activity such as the individual or posibe either a name III. The written authorization	of that person. A person is a duly authorized in is made in writing by the permittee. In specifies either an individual or a position the position of plant manager, operator of a tion having overall responsibility for environd individual occupying a morization is submitted to the Division.	having responsibility for the overall operati well or a well field, superintendent, position nmental matters for the company. (A duly a lamed position); and	on of the regulated facility or n of equivalent responsibility, or an outhorized representative may thus
3)	Same as 1) Permit Open		discharge authorized by this permit for the	facility
	Responsible Person (Title):	Development Manager		
	Currently Held By (Person):	FirstName: Ben	LastName: Bustos	
	Telephone:	719-592-9333 Email Address: b	bustos@classichomes.com	
	Organization:	Elite Properties of America/Cla		
	Mailing Address:	6385 Corporate Drive, Suite 2	00	
	City:	Colorado Springs	State: CO	Zip Code: 80919
4)	Same as 1) Permit Oper Responsible Person (Title):			
		FirstName:	LastName:	-
	Telephone:	Email Address:		
	Organization:			
	Mailing Address:			
	City:		State:	Zip Code:
5)	OTHER CONTACT TYPES (check below) Add pages if necessary:		
	Responsible Person (Title):			
	Currently Held By (Person):	FirstName: Kenneth	LastName: Driscoll	
	Telephone:	719-593-8367 Email Address:	-	
	Organization:	Feathergrass Investments, LL0	2	
	Mailing Address:	4715 N. Chestnut Street		
	City:	Colorado Springs	State: CO	Zip Code: 80907
	Environmental Contact	Consultant	Stormwater MS	4 Responsible Person
	Inspection Facility Contac	ct Compliance Contact	Stormwater Au	thorized Representative

B	PERIVITIED PROJECT/FAC	ALITY INFORMATIO	NI .				
	Project/Facility Name	Hannah Ridge	e at Feather	grass f	Filing No. 3		
	Street Address or Cross Streets	Constitution ar	nd Akers Dri	ve			
	(e.g., Park St and 5 Ave; CR 2 identifying information describest as possible using the star	ibing the location of th	ne project is <u>not</u> a	dequate.	For linear projects	, the route of the p	project should be described as
	city: Colorado Spring	gs	* *************************************	County:	El Paso	Zip Code:	80922
		de and longitude of the	e center point of	the constr	uction project. If us	· · · · · · · · · · · · · · · · · · ·	exact soil disturbing location(s nt, be sure to specify that it is
	Latitude 38 86 Decimal Degrees (to 5 deckn	917 Longitude	104 . Decimal Degrees (to S	6928 decimal place	(e.g., 39.70312°	°, 104.93348°)	
	This information may be obta	ined from a variety of	sources, includir	ıg:			
		engineers for the proje				ormation.	
		I Survey topographic					
		Positioning System (Gaddress in search eng	•		_	i select "what's he	re".
	Note: the latitude/longitude in property boundaries.		-		,		
C)	MAP (Attachment) If no m	nap is submitted, th	e application c	annot he	submitted.		
-,						area that will be d	listurbed. A vicinity map is not
D)	LEGAL DESCRIPTION - only	for Subdivisions					
	Legal description: If subdivide or metes and bounds descript		escription below,	or indical	e that it is not appl	lcable (do not sup	ply Township/Range/Section
	Subdivision(s): Hannah Ridge	at Feathergrass Fil. 3	Lot(s):			Block(s)	
	OR Not applicable (site h	nas not been subdivided)					
E)	AREA OF CONSTRUCTION	SITE - SEE PAGE 1 -	WILL DETERMI	NE FEE			
	Provide both the total area of the Total area of project disturbance:	8 31	ne area that will un	dergo distu	rbance, in acres.		
	Note: aside from clearing, grading with heavy equipment/vehicle tra	g and excavation activitie			areas receiving overt	ourden (e.g., stockpil	es), demolition areas, and areas
	Part of Larger Common Plan	of Development or Sale,	(i.e., total, includin	g all phases	i, filings, lots, and infr	astructure not cover	ed by this application)
F)	NATURE OF CONSTRUCTIO	N ACTIVITY					
	Check the appropriate box(es) or included in the Stormwater Mana	•	on that indicates th	e general n	ature of the construct	tion activities. (The fi	ull description of activities must be
	Commercial Development						
	✓ Residential Development						
	Highway and Transportation [Development					
	Pipeline and Utilities (includin	g natural gas, electricity	, water, and comm	unications)			
	Oil and Gas Exploration and W	/ell Pad Development					
	Non-structural and other deve	elopment (i.e. parks, trai	ls, stream realignm	ent, bank s	tabilization, demolitio	on, etc.)	

G) ANTICIPATED CONSTRUCTION SCHEDULE

Construction Start Date: Summer 2017

Final Stabilization Date: Summer 2018

- Construction Start Date This is the day you expect to begin ground disturbing activities, including grubbing, stockpiling, excavating, demolition, and grading activities.
- Final Stabilization Date in terms of permit coverage, this is when the site is finally stabilized. This means that all ground surface disturbing activities at the site have been completed, and all disturbed areas have been either built on, paved, or a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels. Permit coverage must be maintained until the site is finally stabilized. Even if you are only doing one part of the project, the estimated final stabilization date must be for the overall project. If permit coverage is still required once your part is completed, the permit certification may be transferred or reassigned to a new responsible entity(s).

H)	RECEIVING WATERS (If discharge is to a ditch or storm sewer, include the name of the ultimate receiving waters
• • •	made in the ultimate receiving wa

Immediate Receiving Water(s): East fork of Sand Cr	eek
Ultimate Receiving Water(s): Sand Creek	

Identify the receiving water of the stormwater from your site. Receiving waters are any waters of the State of Colorado. This includes all water courses, even if they are usually dry. If stormwater from the construction site enters a ditch or storm sewer system, identify that system and indicate the ultimate receiving water for the ditch or storm sewer. Note: a stormwater discharge permit does not allow a discharge into a ditch or storm sewer system without the approval of the owner/ operator of that system.

SIGNATURE PAGE

You may print and sign this document and mail the hard copy to the State along with required documents (address on page one).

2. Electronic Submission Signature

You may choose to submit your application electronically, along with required attachments. To do so, click the SUBMIT button below which will direct you, via e-mail, to sign the document electronically using the DocuSign Electronic Signature process. Once complete, you will receive via e-mail, an electronically stamped Adobe pdf of this application. Print the signature page from the electronically stamped pdf, sign it and mail it to the WQCD Permits Section to complete the application process (address is on page one of the application).

- The Division encourages use of the electronic submission of the application and electronic signature. This method meets signature requirements as
 required by the State of Colorado.
- The lnk signed copy of the electronically stamped pdf signature page is also required to meet Federal EPA Requirements.
- Processing of the application will begin with the receipt of the valid electronic signature.

_	STOUBANATED ASSESSORS THE DESIGNATION
1 1	STORMWATER MANAGEMENT PLAN CERTIFICATION

By checking this box "I certify under penalty of law that a complete Stormwater Management Plan, as described in Appendix B of this application, has been prepared for my activity. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the Stormwater Management Plan Is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for falsely certifying the completion of said SWMP, including the possibility of fine and imprisonment for knowing violations."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." "I understand that submittal of this application is for coverage under the State of Colorado General Permit for Stormwater Discharges Associated with Construction Activity for the entirety of the construction site/project described and applied for, until such time as the application is amended or the certification is transferred, inactivated, or expired." (Reg 61.4(1)(h))

For Docusign Electronic Signature	Ink Signature	Date:	
Signature of Legally Responsible Po	erson or Authorized Agent (submission mus	t include original signature)	
Ben Bustos		Development Manager	
Name (printed)		Title	
	sither the numer and appearant of the constitution	uction site. Refer to Part B of the Instructions for additional information,	

Signature: The applicant must be either the owner and operator of the construction site. Refer to Part B of the instructions for additional information The application <u>must be signed</u> by the applicant to be considered complete. In all cases, it shall be signed as follows: (Regulation 61.4 (1ei)

- a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

3rd Party Preparer: If this form was prepared by an authorized agent on behalf of the Permittee, please complete the field below.

Preparer Name (printed)	Email Address

DO NOT INCLUDE A COPY OF THE STORMWATER MANAGEMENT PLAN
DO NOT INCLUDE PAYMENT—AN INVOICE WILL BE SENT AFTER THE CERTIFICATION IS ISSUED.

Attach Map	
Attach File	

CONTRACTOR SEQUENCE OF ACTIVITIES



COLORADO DISCHARGE PERMIT

SYSTEM (CDPS) CHECKLIST Operation & Maintenance Inspection Record

The following inspection records are to be used at each bi-monthly stormwater management system inspection and after any precipitation or snowmelt event that causes surface runoff. As a result of these inspections, the SWMP may need to be revised. The inspection records and revised SWMP shall be made available to the division upon request. If the construction activity lasts more than 12 months, a copy of the inspection records and revised SWMP shall be sent to the division by May 1 of each year covering April 1 to March 31.



Project Type: Subdivision

Zip Code:

Project Name:

Subdivision:

Address/Location:

Action Date: 02/22/2010

Date Next Routine: 03/08/2010

Assigned Inspector: Todd Sturtevant

Date Next Follow-up:

Owner:

Owner Phone:

Stage of Construction: BMP Installation

Rep. Phone; Rep. Name:

Inspected By: Todd Sturtevant

Check Dam Na securical and debris been removed per maintenance requirements? No No	
1 Check Dam Has securished sediment and debris been removed par maintenance requirements? In the Protection In the Interprotection In the Interprotection damaged, ineffective or in need of repairs? In the Interprotection In the Interprotect	Remarks / Actions Necessary
s, is as accurated activisent and debts been removed par maintenance requirements? 1 is the accessor coartict blanker fabric damaged, loose or in need of repair? 1 in the frequent remain in inition damaged, herifective or in need of repair? No 2 intel protection damaged, herifective or in need of repair? No 3 intel protection changed, herifective or in need of repair? No 4 Mulching 1 Uneare mutuch distribution on disturbed areas? 1 is the mulch application reto inerfective or in need of repair? No 2 Uneare mutuch distribution on disturbed areas? 1 is the mulch application reto inerfective? No 3 parase require additional mulching? No 5 parase require additional mulching? No 5 sectiment Basin / Trap 1 is the as diment basin illusproperly constructed or inoperable? 1 is the set inforce of debts dis the basin? No 5 sectiment Basin / Trap 1 is the reaches as endiment applicant the basin? No 1 is the set if force of damaged, colleges of, un-franched or inefective? 1 is the reaches as endiment applicant the basin? No 1 is the set if force of damaged, colleges of, un-franched or inefective? 1 is the reaches instructive or	
2 Eroslan Control Blanket 1, is the eventor control blanket labid damaged, lose or in need of repair? 3 Intel Protection 1, is the Net Bert protection damaged, ineffective or in need of repairs? 4 No 5, boes sediment cental in Intels? 5 No 6 No 7 No 8 No 8 No 9	
s is the excelor control blanker fabloc damaged, loced or in need of repairs? she sited protection chamaged, ineffective or in need of repairs? she sited protection chamaged, ineffective or in need of repairs? Moluthing Uneven much distribution on disturbed areas? she much application rate inedequate? Any evidence of much behalp blown or vasable way? by a site much application rate inedequate? Any evidence of much behalp blown or vasable way? by a site and site in much application rate inedequate? Any evidence of much behalp blown or vasable way? by a site and site in my competity constructed or inoperable? she is sediment blash in improperty constructed or inoperable? she is sediment blash in improperty constructed or inoperable? she is sediment and/or debtis is the basin? she received an individual or individual or inoperable? she received an individual or individual	
s is he kiet protection damaged, ineffective or in need of repairs? No No Libers much distribution on disturbed areas? Is the much application rate inefactuale? No Any evidence of much being blown or washed away? No Any evidence of much being blown or washed away? No Do waves require additional matching? No Saddinent Basin in report protein constructed or insperable? No Saddinent Basin in report protein constructed or insperable? No Saddinent Basin in report protein constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Is the saddinent basin improperly constructed or insperable? No Sologo Drain in saddinent saddinent? No Saddinent saddinent saddinent saddinent saddinent? No No Is the saddinent saddinent saddinent saddinent? No No Is the saddinent saddinent saddinent saddinent saddinent saddinent sa	
, Does sediment remain in heleta? Mulching No No No No No No No N	
4. Mulching 1. Unaven mutch distribution on disturbed areas? 1. Is the mutch application rate insetsquate? 2. Any evidence of mutch being blown or weahed away? 3. De areas require additional mutching? 3. Bediment Basin / Trap 1. Is the sediment basin improperity constructed or inoperable? 1. Is the sediment basin improperity constructed or inoperable? 1. Is the sediment basin improperity constructed or inoperable? 1. Is the sediment basin improperity constructed or inoperable? 1. Is the sediment anafor debts in the basin? No 1. Is the sediment anafor debts in the basin? No 1. Is the sediment applied the basin basin and the basin? No 1. Is the sediment applied the basin basin and the basin? No 1. Is the sediment applied the basin basin and the basin? No 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipe? 1. Is the sediment applied the particle of pipee. 1. Is the sediment applied the particle of pipee. 1. Is the	
Justine mutuch distribution on disturbed areas? Jest the mutuch application rate inadequate? Any evidence of mutuch beling blown or weahed away? Do arease require additional mutuching? Sediment Beas in Trap Jest as sediment beas in Improperty constructed or inoperable? Jest the sediment beas in Improperty constructed or inoperable? Jest the sediment areafor debts in the beasin? No Sediment Beas in Trap Jest the sediment areafor debts in the beasin? No Jest the sediment areafor debts in the beasin? No Jest the sediment areafor debts in the beasin? No Jest the sediment areafor debts in the bearin? No Jest the sediment areafor debts in the bearin? No Jest the sediment areafor debts bearing? No Jest the sediment areafor debts bearing? No Jest the sediment areafor debts bearing? No Jest the sediment areafor controlling the inlet or pipe? Jest there are yet debts demaped, ineffective or un-trenched? Jest the sed sediment against the bearing? No Jest the sediment against the bearing? No Surface Roughening Jest the sediment against the bearing? No Surface Roughening Jest the sed or yet debts of the sediment areafor or with the sed	
s is the mutch application rate insidequals? Any evidence of mutch belong blown or weathed away? De areas require additional mutching? No Is the sediment basin improperly constructed or inoperable? Is the sediment additional mutching? No Is the sediment additional mutching? No Is the sediment additional mutching? No Is the sed sediment additional mutching? No Is the sediment additional mutching or inside cive? No Is the sediment additional mutching or inside cive? No Is the sediment additional mutching the inside or pipe? No Is the sediment additional mutching the inside or pipe? No Is the sediment additional mutching the inside or pipe? No Is the sediment additional mutching the inside or pipe? No Is the sediment additional mutching the inside or pipe? No Is the sediment additional mutching the inside or pipe? No Straw Bale Barrier And the straw bales damaged, ineffective or unstrenched? No Surface Roughberling No Surface Roughberling Is the services sediment against the barrier? No	
, Any evidence of mutch's being blown or washed away? Do areas require additional markships? Is the a rediment basin improperly constructed or inoperable? Is the a rediment and improperly constructed or inoperable? Is the a sediment and/or debris in the basin? 8 Bill Fence Is the self fence damaged, collapsed, un-trenched or ineffective? Is there excess sediment against the barrier? No Is there excess sediment against the barrier? No Is the self fence improperly located? 7 Bloppo Drain No Is where excess sediment against the barrier? No Is where excess sediment against the barrier? No Straw Balo Barrier No Straw Balo Barrier No Straw Balo Barrier No Is there excess sediment against the barrier? No Surface Roughenting Is the surface roughenting inconsistent on alopes? Is the service outpleaning inconsistent on alopes? Is the service roughenting inconsistent on alopes? Is the service roughenting inconsistent on alopes? No Seading Any the seedbeds supprotected? No No Seading No In the service or vehicle tracking an seeded area? No No Has any arcation occurred in the seeded area? No Has any arcation occurred in the seeded area? No Has any arcation occurred in the seeded area? No Has any arcation occurred in the seeded area? No Has any arcation occurred in the seeded area? No Has any arcation occurred in the seeded area? No No It Temporary Swales No Has any arcation occurred in the seeded area? No No It is the surface copy and the count of the surface? No No It is the surface copy and the seeded area? No No It is the surface copy and the seeded area? No No It is the surface copy and the seeded area? No No It is the surface copy and any arcation area and any arcation and area are any any arcation and area are any arcation and area are any arcation and area area. No It is the pavel surface of copy and any arcation and any arcation? No No It is the pavel surface of copy and any area area area area area area area are	·
, Do areas require additional mutching?) is the aediment basin improperly constructed or inoperable?) is the residement and/or debris in the basin? 8 Bilt Fence) is the self-ence and admaged, collespeed, un-trenched or inaffective?) is the self-ence and admaged, collespeed, un-trenched or inaffective?) is the self-ence and admaged, collespeed, un-trenched or inaffective?) is the self-ence improperly located? 8 No 7 Stopp Drain 1 swalcr bypassing or underculling the inlet or pipe? 1 sharter any ovidence of erasion? 8 Straw Bale Barrier Are the straw bales damaged, ineffective or un-trenched? 9 Surface Roughbring 1 is there excess sediment against the barrier? Are the straw bales damaged, ineffective or un-trenched? 9 Surface Roughbring 1 is the excess sediment against the barrier? Are the straw bales damaged, ineffective or un-trenched? 10 Seading 1 is the excess sediment against the barrier? 10 Seading 1 is the excess sediment against the barrier? 10 Seading 1 is the expression of the seded are and the seded ar	
5 Seddment Basin / Trap , is the sediment basin improperly constructed or inoperable? , is there sediment and/or debris in the basin? 8 Bit Fence , is the self cond dameged, collapsed, un-trenched or ineffective? , is these excess sediment against the barrier?	
is the sediment basin Improperty constructed or Inoperable? is the sediment and/or debris in the basin? 8 Bit Fence is the self fence dameged, collapsed, un-transhed or inaffective? is the secess sediment against the barrie? is the self fence improperty located? No 7 Slope Drain is have excess sediment against the barrie? No 8 Straw Bale Barrier is water bygassising or underculling the inlet or pipe? is the seven widence of excessor? No 8 Straw Bale Barrier is the seven widence of excessor? No 9 Straw Bale Barrier is the seven widence of excessor? No 9 Surface Roughenting is the sevent against the barrier? No 1 to Seading No 1 to	
sis there sediment and/or debrts in the basin? 8 Bilt Pence 1 is the silt fonce damaged, collegead, un-trenched or inaffective? 1 is the sex excess sediment against the barrier? 7 Blope Drain 1 is waiter bypassing or undercutting the inlet or pipe? 1 is there are properly located? 8 No 8 Straw Bels Barrier 9 No 9 Straw Bels Barrier 9 No 9 Straw Bels Barrier 9 No 9 Surface Roughenting 1 is the ceases sediment against the barrier? 9 No 9 Surface Roughenting 1 is the excess sediment against the barrier? 1 is the ceases sediment against the barrier? 1 is the ceases sediment in the seded acceptable of the cease of the seded acceptable of the cease of the seded acceptable of the cease of the seded acceptable of the sede	
6 Bill Fence 1 is the all force damaged, collapsed, un-trenched or inaffective? 1 is these excess sediment against the barrier? 1 is the all fence improperly located? 1 No 1 is the access sediment against the barrier? 1 No 1 is the cext years of excessor? 1 No 1 is there are yeddence of eroston? 1 No 1 is there are yeddence of eroston? 2 No 1 is there are yeddence of eroston? 3 No 1 is there are vert we beat admaged, ineffective or un-trenched? 1 is the server barbet admaged, ineffective or un-trenched? 1 is the excess sediment against the barrier? 1 No 1 is there access sediment against the barrier? 1 No 2 Surface Roughenfling 1 is the surface roughening inconsistent on slopes? 1 is the real yeddence of victors or underlying eroston? 2 is the exploration of the seded area? 2 No 2 is the exploration of the seded area? 3 No 4	
, is the excess addiment against the barrier? , is the all fence improperly located? 7 Stope Drain , Is water bypassing or undercutting the Intel or pipe? , Is there any owdence of eroston? 8 Straw Bate Barrier , Are the straw bakes damaged, ineffective or un-trenched? , Is there excess sectionent against the barrier? , Are the straw bakes damaged, ineffective or un-trenched? , Is there excess section against the barrier? , Are the straw bakes damaged, ineffective or un-trenched? , Is there excess section against the barrier? , Are the steaked and positioned incorrectly? 8 Surface Roughening , Is there any evidence of surface roughening eroston? 10 Seading , Are the seedbeds unprotected? , Has any sediment or debris been deposited within the swalas? , Has any sediment or debris been deposited within the swalas? , Has any sediment or debris been deposited within the swalas? , Are the swalas improperly located? , Are the swalas improperly located? , Is the gravel surface shriking into the ground? , Is the gravel surface shriking into the ground? , Is the gravel surface shriking into the ground? , Is the gravel surface shriking into the ground? , Is the structure been damaged or show signs of eroston? , Is the structure property located? 10 Sough-Cut & Street Control , Is erostoction missing around cuts hintels near construction entrance? 11 Shough-Cut & Street Control , Is every a structure been damaged or show signs of eroston? , Is the structure been property located? 12 Control Foliaction , Is every a structure been property located and installed? , Is the structure been property located and installed? , Is the structure been property located and installed? , Is the structure been property located and installed? , Is the eventon logs damaged, collapsed, or Ineffective? , Is there eventon log of demaged, collapsed, or Ineffective? , Is there eventon logs damaged, collapsed, or Ineffective? , Are the eventon log of Germaged, collapsed, or Ineffective? , Are the eventon logs Germaged, collapsed, or Ineffec	
, is the allifence improperty located? 7 Slope Drain , Is water typeassing or undercutting the inlet or pipe? , Is there arely evidence of erosion? 8 Straw Pale Barrier , Are the straw bases damaged, ineffective or un-trenched? , Are the straw bases damaged, ineffective or un-trenched? , Are the straw bases damaged, ineffective or un-trenched? , Are the bales installed and positioned incorrectly? 9 Surface Roughening , Is the surface roughening inconsistent on alopes? , Is there arely evidence of surface a roughening erosion? No 10 Seading , Are the seedbeds unprotected? , Are waster incorrectly not seed of the seedbed area? , Are vidence of vehicle tracking on seeded area? , Are vidence of vehicle tracking on seeded area? , Are the seedbeds unprotected? , Is the gravel surface schizing into the ground? , Are the serves seed surface protection making around curb inlets near construction entrance? , Is the fire protection , Is required surface schizing into the ground? , Is the structure properly located? , Is the fire protection , Is even taking place? , No , Is the gravel surface schizing around curb inlets near construction entrance? , No , Is the structure properly located? , No , Is the structure properly located? , No , Is the structure properly located? , No , Is the second look and any around seed the second properly located? , Is the expected control , Is	
7 Stope Drain , Is water bypassing or undercutting the intel or pipe? , Is there any evidence of erosion? 8 Straw Bale Barrier , Are the straw bales damaged, ineffective or un-trenched? , Is there excess sediment against the barrier? , Are the bales installed and positioned incorrectly? 9 Surface Roughening , Is the surface roughening inconsistent on alopes? , Is there are evidence of surface roughening erosion? 10 Seeding , Are the seedbeds unprotected? , Has any erosion occurred in the seeded area? , Any evidence of vehicle tracking on seeded area? , Has any sediment or debris bean deposited within the swales? , Has any sediment or debris bean deposited within the swales? , Has any sediment or debris bean deposited within the swales? , Has whe slopes of the swale eroded or has damage occurred to the fining? , Is gravel surface clogged with much or sediment? , Is the gravel surface organd with much or sediment? , Is the gravel surface organd with much or sediment? , Is the gravel surface organd with much or sediment? , Is the gravel surface organd with much or sediment? , Is the structure bean damaged or show signs of erosion? , Is the structure property located? 10 Overlon Structure , Has the structure property located and installed? , Is the structure property located and installed? , Is the structure bean property located and installed? , Is the second taking place? 10 Concrete Washout , Has material bean removed per maintenance requirements? , Is there excess sediment against the atructure? 10 Concrete Washout , Has material bean removed per maintenance requirements? , Is the erosion logs damaged, collapsed, or ineffective? , Is there excess sediment against the atructure? 10 No 17 Erosion Logs , Are the erosion logs demaged, collapsed, or ineffective? , Is there ecosion logs droughed and installed? , Is the erosion logs droughed and installed? , Is the erosion logs droughed or should the structure? 10 No 11 Erosion Logs , Are the erosion logs droughed and installed? , Are the erosion logs drough	
Is water bypassing or underculling the field or pipe? No	
s Straw Bate Barrier , Are the straw bales damaged, ineffective or un-trenched? , Are the bates instance and positioned incorrectly? B Surface Roughening , Is there excess sediment against the barrier? Are the bates instance and positioned incorrectly? B Surface Roughening , Is the surface roughening inconsistent on alopea? , Is there are varieties of surface roughening erosion? No 10 Seading , Are the seedbads unprotected? , Has any erosion occurred in the seeded area? , Has any erosion occurred in the seeded area? , Has any sediment or debris bean deposited within the swales? , Has any sediment or debris bean deposited within the swales? , Has any sediment or debris bean deposited within the swales? , Has wales improperly located? No 12 Vehicle Tracking , Is gravel surface orough within dure addiment? , Is the gravel surface orough within dure addiment? , Is the gravel surface or gravel within the ground? , Has the surface or missing around curb inlets near construction entrance? No 13 Diversion Structure , Has the structure property located? No , Is the structure property located? No , Is the structure property located? No , Is the structure property located? No 14 Outtlet Protection , Is excellentaging and the structures? No 15 Rough-Cut Street Control , Has structures been property located and installed? , Is the re excess sedment against the structures? No 16 Concrete Washout No , Is there excess sedment against the structure? No , Is there excess sedment against the structure? No , Is there excess sedment against the berrier? , Is there excess sedment against the berrier? , Is there excess sedment against the berrier? , Are the erosion logs demaged, collapsed, or ineffective? , Is there excess sedment against the berrier? , Are the erosion logs demaged, collapsed, or ineffective? , Is there excess sedment against the berrier? , Are the erosion logs demaged, collapsed, or ineffective? , Are the erosion logs demaged excelled? , Are the erosion logs demaged excelled? , Are changes to the	
8 Straw Bale Barrier , Are the straw bales damaged, ineffective or un-trenched? , Is there excess sediment against the barrier? Are the bales instalked and positioned incorrectly? 8 Surface Roughenting , Is the surface roughenting inconsistent on slopes? , Is there any evidence of surface roughening eroslon? No 10 Seading Are the seedbeds unprotected? Are the seedbed area? Are the swales improperly located? Are the seedbed area? Are the swales improperly located? Are the seedbed under seed are are construction entranco? Are the seed surface slinking into the ground? Are the seed surface slinking into the ground? Are the structure been damaged or show signs of erosion? Are the structure been damaged or show signs of erosion? Are seed structure properly located? Are the structure been damaged or show signs of erosion? Are seed structure properly located? Are structure properly located? Are structure properly located? Are structure properly located and installed? Are structure been properly located and installed? Are structure been properly located and installed? Are structure been properly located and installed? Are the excess seedment against the structures? Are the excess seedment against the structures? Are the excess seedment against the structure? Are the excess seedment against the structure? Are the erosion logs damaged, collapsed, or ineffective? Are the erosion logs damaged, collapsed, or ineffective? Are the erosion logs fropperly located? Are the erosion logs fropperly located? Are	
, Are the straw bales damaged, ineffective or unkrenched? , is there excess sediment against the barrier? , Are in the bales Installed and positioned incorrectly? Surface Roughening , is the surface roughening inconsistent on slopes? , is there any evidence of surface roughening erosion? No 10 Seading , Are the seadbeds unprotected? , Any evidence of vehicle fracking on seeded area? , Any evidence of vehicle fracking on seeded area? , Any evidence of vehicle fracking on seeded area? , Any evidence of vehicle fracking on seeded area? , Has any sediment or debrits bean deposited within the swales? , Has evidence of vehicle fracking on seeded area? , Have the slopes of the swale eroded or has damage occurred to the fining? , Is a series of the swale improperty located? 12 Vehicle Tracking , Is gravel surface ologique with muct or sadiment? , Is the gravel surface sinking into the ground? , Has sediment been tracked onto any roads? , Is in let protection missing around curb inlets near construction entrance? , Is the structure been damaged or show signs of erosion? , Is the structure been damaged or show signs of erosion? , Is the structure been damaged or show signs of erosion? , Is the excess sediment against the alructures? No 15 Rough-Cut Street Control , Is there excess sediment against the alructures? No 16 Concrete Washout 18 Has material bean removed per maintenance requirements? , Does structure have a dequate singne?? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate tracking-pad material for access, if necessary? , Is there excess sediment against the barrier? No 18 GEC Management , Is the GEC floodbook tocated on site? , Are the erosion logs (improperty located? , Are the erosion logs (improperty located? , Are the erosion logs (improperty located? , Are the deconology of (improperty located? , Are the erosion logs (improperty located? , Are the erosion logs (improperty located? , Are the deconologic (improperty located? , Are the deconologic (improperty	
, is there excess sediment against the barrier? Are the bate is installed and positioned incorrectly? Surface Roughlenting Is the surface roughlenting inconsistent on alopes? Is the surface roughlenting inconsistent on alopes? No Seading Are the seedbeds unprotected? Are the seedbeds unprotected? Are the series in occurred in the seeded area? No Temporary Swales Any evidence of vehicle fracking on seeded area? No Temporary Swales Are the swales improperly located? No 10 Vehicle Tracking Is gravel surface clogged with much or sediment? Is the gravel surface shriking into the ground? No Is the gravel surface shriking into the ground? No Is the protection missing around curb inlets near construction entrance? No Is the structure properly located? No Is the structure been damaged or show signs of erosion? Is the structure been damaged or show signs of erosion? Is the structure properly located? No Is the structure properly located? No Is the structure properly located? No Is the structure properly located and installed? Is there excess sediment against the structure? No Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking pad material for access, if necessary? Is there adequate protection	
Surface Roughenting	
Surface Roughening , is the surface roughening inconsistent on alopes? , is there any evidence of surface roughening erosion? No	
, is the surface roughening inconsistent on alopes? , is there any evidence of surface roughening erosion? No Seading , Are the seedbeds unprotected? , Has any erosion occurred in the seeded area? , Any evidence of vehicle tracking on seeded area? , Any evidence of vehicle tracking on seeded area? , Has any sediment or debris bean deposited within the swales? , Has any sediment or debris bean deposited within the swales? , Has evidence of the swale eroded or has damage occurred to the kining? , Hare the alopes of the swale eroded or has damage occurred to the kining? , Are the swales improperly located? , Is the system of the swale eroded or has damage occurred to the kining? , Is gravel surface clogged with much or sediment? , Is the gravel surface clogged with much or sediment? , Is the gravel surface clogged with much ground? , Is an gravel surface clogged with much or sediment? , Is the structure been tracked onto any roads? , Is fallet protection missing around curb inters near construction entrance? No 13 Diversion Structure , Has the structure been damaged or show signs of erosion? , Is the structure property located? No , Is the structure property located? No , Is the structure been property located and installed? , Is the structures been property located and installed? , Is there excess sedment against the structures? No 16 Concrete Washout , Has material bean removed per maintenance requirements? , Does structure have adequate signage? , Is there adequate tracking part material for access, if necessary? , Is there adequate tracking admaterial for access, if necessary? , Is there excess sedment against the barrier? , Are the erosion logs demaged, collapsed, or Inteffective? , Are the erosion logs demaged, collapsed, or Inteffective? , Are the erosion logs improperly located? , Are changes to the GEC documents noted and approved? No No Lead To the second part of the second part of the structure? No No No Lead To the second part of the second part of the second part of the second part of t	
Seading No No No No No No No N	
No No No No No No No No	
, Are the seedbeds unprotected? , Has any erosion occurred in the seeded area? , Any evidence of vehicle (racking on seeded area? 11 Temporary Swales , Has any sediment or debris been deposited within the swales? , Have the stopes of the swale erosted or has damage occurred to the kining? , Have the stopes of the swale erosted or has damage occurred to the kining? , No , Are the swales improperly located? 12 Vehicle Tracking , Is gravel surface clogged with mud or sediment? , Is the gravel surface sinking into the ground? , Is the gravel surface sinking into the ground? , Has sediment been tracked onto any roads? , Is the profection missing around curb intels near construction entrance? 13 Diversion Structure , Has the sfructure been damaged or show signs of erosion? , Is the structure property located? 14 Outlet Protection , Is there excess sedment against the structures? 15 Rough-Cut Street Control , Has structures been property located and installed? , Is there excess sedment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Does structure have adequate signage? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate profection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or Ineffective? , Are the erosion logs damaged, collapsed, or Ineffective? , Are the erosion logs (mproperly located? 18 GEC Management , Is the GE Coctobox (coated on site? , Is the GE Coctobox (coated on site? , Are changes to the GEC documents noted and approved?	
, Has any arosion occurred in the seeded area? Any evidence of vehicle fracking on seeded area? No Any evidence of vehicle fracking on seeded area? No Has any sediment or debris been deposited within the swales? No Have the stopes of the swale eroded or has damage occurred to the kining? No Are the swales improperly located? No Is gravel surface sinking into the ground? No Is gravel surface ological with much or sediment? No Is the gravel surface shirking into the ground? No Is the gravel surface shirking into the ground? No Is linet profection missing around curb intest near construction entrance? No Is linet profection missing around curb intest near construction entrance? No Is the structure been damaged or show signs of erosion? No Is the structure properly located? No Is erosion taking place? No Is erosion taking place? No Is there excess sedment against the structures? No Is there excess sedment against the structure? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is there adequate tracking pad material for access, if necessary? No Is the erosion logs damaged, collapsed, or ineffective? No Is dec Management No Is the Ge Cotebook tocated on site? No Are the erosion logs (mproperly located?	
11 Temporary Swates , Has any sediment or debris been deposited within the swates? , Have the slopes of the swale eroded or has damage occurred to the kining? , Are the swales improperly located? 12 Vehicle Tracking , Is gravel surface clogged with mud or sadiment? , Is the gravel surface clogged with mud or sadiment? , Is the gravel surface shrking into the ground? , Is the structure been tracked onto any roads? , Is linet protection missing around curb intels near construction entrance? 13 Diversion Structure , Has the structure been damaged or show signs of erosion? , Is the structure properly located? 14 Outlet Protection , Is erosion taking place? 15 Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sediment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or Ineffective? , Is there excess sediment against the barrier? , Are the erosion logs damaged, collapsed, or Ineffective? , Is there excess sediment against the barrier? , Are the erosion logs damaged, collapsed, or Ineffective? , Is there excess sediment against the barrier? , Is the GEC notebook tocated on site? , No , Are changes to the GEC documents noted and approved? No	
Has any sedimant or debris been deposited within the swales? Have the stopes of the swale eroded or has damage occurred to the kining? Are the swales improperly located? Vehicle Tracking Is gravel surface clogged with mud or sediment? Is the gravel surface sinking into the ground? Is the gravel surface sinking into the ground? Is the gravel surface sinking into the ground? Is the structure been tracked onto any roads? Is linket protection missing around curb intels near construction entrance? No 13 Diversion Structure No Has the structure been damaged or show signs of erosion? Is the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control Have structures been properly located and installed? Is there excess sediment against the structures? No 16 Concrete Washout Has material been removed per maintenance requirements? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs friproperly located? No Are the erosion logs friproperly located? No Are changes to the GEC documents noted and approved?	
Have the slopes of the swale eroted or has damage occurred to the kining? Are the swales improperly located? Vehicle Tracking Is gravel surface alogged with mud or sediment? Is the gravel surface alogged with mud or sediment? Is the gravel surface aloking into the ground? No Has sediment been tracked onto any roads? Is finite protection missing around curb inlets near construction entrance? No 13 Diversion Structure Is the structure been damaged or show signs of erosion? Is the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control Is there excess sedment against the structures? No 16 Concrete Washout Is mere excess sedment against the structures? No Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or Ineffective? Is there excess sedment against the barrier? No Are the erosion logs (collapsed, or Ineffective? Is there excess sedment against the barrier? No Are the erosion logs (collapsed, or Ineffective? Is the GEC notebook tocated on site? No Are the erosion logs (collapsed, or Ineffective? No Are the erosion logs (collapsed) No Are changes to the GEC documents noted and approved? No	
Are the swales improperly located? Vehicle Tracking Is gravel surface clogged with mud or sediment? Is gravel surface clogged with mud or sediment? Is the gravel surface sinking into the ground? Is the gravel surface sinking into the ground? Is the sediment been tracked onto any roads? Is linter protection missing around curb intets near construction entrance? Diversion Structure Is the structure been damaged or show signs of erosion? Is the structure properly located? Is erosion taking place? Is erosion taking place? Is Rough-Cut Street Control Is there excess sediment against the structures? Is there excess sediment against the structures? Is there excess sediment against the structures? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? Is there excess sediment against the barrier? Are the erosion logs damaged, collapsed, or Ineffective? Is there excess sediment against the barrier? Are the erosion logs (mproperly located? Is the GEC motebook located on site? Is the GEC motebook located on site? Are changes to the GEC documents noted and approved? No	
12 Vehicle Tracking , is gravel surface clogged with mud or sadiment? , is the gravel surface sinking into the ground? , Has sadiment been tracked onto any roads? , is linet protection missing around curb inlets near construction entrance? 13 Diversion Structure , Has the structure been damaged or show signs of erosion? , Is the structure properly located? 14 Outlet Protection , Is erosion taking place? , No 15 Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Does structure have adequate signage? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or ineffective? , Is there excess sediment against the barrier? , Are the erosion logs (improperly located? 18 GEC Management , Is the GEC notebook located on site? , Is the GEC notebook located on site? , Are changes to the GEC documents noted and approved?	
Is gravel surface clogged with much or sediment? Is the gravel surface striking into the ground? No Has sediment been tracked onto any roads? Is first protection missing around curb intets near construction entrance? No 13 Diversion Structure No Has the structure been damaged or show signs of erosion? Is the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control Have structures been properly located and installed? Is there excess sedment against the structures? No 16 Concrete Washout Has material bean removed per maintenance requirements? Does structure have adequate signage? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or Ineffective? No Is there excess sediment against the barrier? Are the erosion logs (collapsed, or Ineffective? Is there excess sediment against the barrier? Are the erosion logs (manoperly located? No 18 GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved?	
, is the gravel surface sinking into the ground? , Has sediment been tracked onto any roads?	
Has sediment been tracked onto any roads? Is Inlet protection missing around curb Intets near construction entrance? No 13 Diversion Structure Has the structure been damaged or show signs of erosion? Has the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control Have structures been properly located and installed? Is there excess sedment against the structures? No 16 Concrete Washout Has material been removed per maintenance requirements? Does structure have adequate signage? Is there adequate tracking-pad malerial for access, if necessary? Is there adequate protection around the structure? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (mproperly located? No 18 GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved?	
, is linter protection missing around curb interts near construction entrance? No No Has the structure No No Is the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control No Is these excess sedment against the structures? No 16 Concrete Washout No No No No No No No No No N	
13 Diversion Structure , Has the structure been damaged or show signs of erosion? , Is the structure properly located? 14 Outlet Protection , Is erosion taking place? 15 Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or ineffective? , Is there excess sediment against the barrier? , Are the erosion logs (improperly located? 18 GEC Management , Is the GEC notebook located on site? , Are changes to the GEC documents noted and approved? No	
Has the structure been damaged or show signs of erosion? Is the structure properly located? No 14 Outlet Protection Is erosion taking place? No 15 Rough-Cut Street Control Have structures been properly located and installed? Is there excess sedment against the structures? No Concrete Washout Has material been removad per maintenance requirements? Does structure have adequate signage? Is there adequate tracking-pad material for access, if necessary? Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (improperly located? No 18 GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved?	
, is the structure properly located? A Outlet Protection , is erosion taking place? Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedment against the structures? Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedment against the structures? Ro Concrete Washout , Has material been removed per maintenance requirements? , No Does structure have adequate signage? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? Ro Treeion Logs , Are the erosion logs damaged, collapsed, or ineffective? , Is there excess sedment against the barrier? , Is there excess sedment against the barrier? , Are the erosion logs (improperly located? Ro GEC Management , Is the GEC notebook located on site? , Is the GEC notebook located on site? , Are changes to the GEC documents noted and approved?	
14 Outlet Protection , is erosion taking place? 15 Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Does structure have adequate signage? , No , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or ineffective? , Is there excess sediment against the barrier? , Is there excess sediment against the barrier? 18 GEC Management , Is the GEC notebook located on site? , Are changes to the GEC documents noted and approved?	
, is erosion taking place? 15 Rough-Cut Street Control , Have structures been properly located and installed? , Is there excess sedmlent against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? , Does structure have adequate signage? , Is there adequate tracking-pad material for access, if necessary? , Is there adequate protection around the structure? 17 Erosion Logs , Are the erosion logs damaged, collapsed, or ineffective? , Is there excess sediment against the barrier? , Is there excess sediment against the barrier? , Is there ecosion logs damaged, collapsed? 18 GEC Management , Is the GEC notebook tocated on site? , Are changes to the GEC documents noted and approved?	
Have structures been properly located and installed? Is there excess sedment against the structures? 16 Concrete Washout Has material been removed per maintenance requirements? No Does structure have adequate signege? Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? No 17 Erosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (improperly located? Ro Ro BGEC Management Is the GEC necebook located on site? Are changes to the GEC documents noted and approved?	
, is there excess sedment against the structures? 16 Concrete Washout , Has material been removed per maintenance requirements? No , Does structure have adequate signage? No , is there adequate tracking-pad material for access, if necessary? No , is there adequate protection around the structure? No 17 Erosion Logs , Are the erosion logs damaged, collapsed, or ineffective? , is there excess sediment against the barrier? No , are the erosion logs from the barrier? No , Are the erosion logs damaged to the barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , the decomposition logs damaged to barrier? No , the decomposition logs damaged to barrier? No , the decomposition logs damaged to barrier? No , are the erosion logs damaged to barrier? No , the decomposition logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No , are the erosion logs damaged to barrier? No No 18 GEC Management No	
16 Contrete Washout Has material been removed per maintenance requirements? Does structure have adequate signage? No Is there adequate tracking-pad material for access, if necessary? No Is there adequate protection around the structure? No Teroston Logs No Are the eroston logs damaged, collapsed, or ineffective? No Is there excess sediment against the barrier? No Are the eroston logs (mproperly located? No BGC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No	
Has material bean removed per maintenance requirements? Does structure have adequate signage? No Is there adequate tracking-pad material for access, if necessary? No Is there adequate tracking-pad material for access, if necessary? No Terosion Logs No Are the erosion logs damaged, collapsed, or ineffective? No Is there excess sediment against the barrier? Are the erosion logs (improperly located? No GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No	
Does structure have adequate signage? Is there adequate tracking-pad material for access, if necessary? Is there adequate profection around the structure? No Terosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (mproperly located? No GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No No	
Is there adequate tracking-pad material for access, if necessary? Is there adequate protection around the structure? 17 Erosion Logs Are the erosion logs demaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (improperly located? No 18 GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No No	
Is there adequate protection around the structure? 17 Erosion Logs Are the erosion logs damaged, collapsed, or ineffective? Is there excess sediment against the barrier? Are the erosion logs (improperly located? 18 GEC Management Is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No	
17 Erosion Logs No Are the erosion logs damaged, collapsed, or ineffective? No Is there excess sediment against the barrier? No Are the erosion logs improperly located? No 18 GEC Management No Is the GEC notebook located on site? No Are changes to the GEC documents noted and approved? No	
, Are the croston logs damaged, collapsed, or Ineffective? , Is there excess sediment against the barrier? , Are the eroston logs (improperly located? No 18 GEC Management , Is the GEC notebook tocated on site? , Are changes to the GEC documents noted and approved? No	
, is there excess sediment against the barrier? Are the erosion logs improperly located? 18 GEC Management No , is the GEC notebook located on site? Are changes to the GEC documents noted and approved? No	
, Are the erosion logs improperly located? 18 GEC Management , Is the GEC notebook located on site? No , Are changes to the GEC documents noted and approved? No	
18 GEC Management No , Is the GEC notebook togated on site? No , Are changes to the GEC documents noted and approved? No	
, Is the GEC notebook tocated on site? No , Are changes to the GEC documents noted and approved? No	
, Are changes to the GEC documents noted and approved?	
, Are corrective actions from the last inspection completed?	
19 Materials and Pollution No	

Are slockpiles being managed property?	No	
Are materials being managed properly?	Na	
Is solid waste and trash being managed properly?	No	
, is alreal awasping being managed properly?	No	
Are the sanitary facilities being managed properly?	No	
Are the vehicles and equipment being managed properly?	No	
, Are there other materials or polition tesses being properly maintained?	No	

Project Status: Active

Const. Start Date:

Size of Disturbance (acres);

Additional Comments:

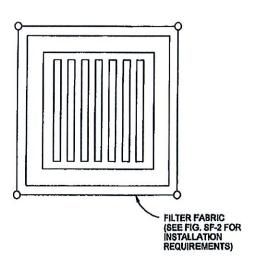
Date Printed: 2/22/2010 7:50:10AM 2 of 2

COMPLETED OPERATION AND MAINTENANCE INSPECTION RECORDS



STANDARD BMP DETAILS W/ INSTALLATION AND MAINTENANCE REQUIREMENTS





FILTER FABRIC INLET PROTECTION

NTS

FILTER FABRIC INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.

2. SEE SILT FENCE FIGURE SF-2 FOR INSTALLATION REQUIREMENTS.

3. POSTS ARE TO BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

MAINTENANCE REQUIREMENTS

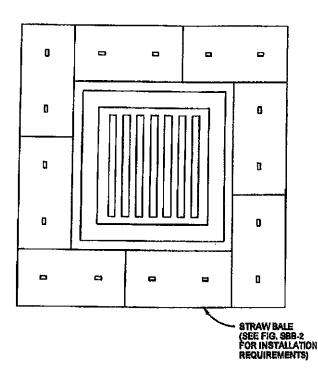
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE INLET PROTECTION SHALL BE PROMPTLY REPAIRED OR REPLACED.

3. SECHMENT SHALL BE REMOVED FROM BEHIND FILTER FABRIC WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

4. FILTER FABRIC PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED IN THE DRAINAGE AREA AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure IP-1
Filter Fabric Inlet Protection



STRAW BALE INLET PROTECTION

STRAW BALE INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.

2. BALES ARE TO BE PLACED IN A SINGLE ROWAROUND THE INLET WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.

3. SEE STRAW BALE BARRIER FIGURE SB8-2 FOR INSTALLATION REQUIREMENTS.

MAINTENANCE REQUIREMENTS

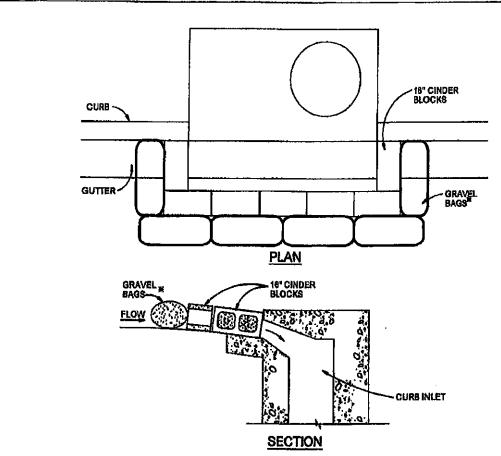
1. CONTRACTOR SHALL INSPECT STRAWBALE INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.

8. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALES WHEN IT ACCUMULATES TO APPROXIMATELY 1/3 THE HEIGHT OF THE BARRIER.

4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure IP-2
Straw Bale Inlet Protection
Construction Detail and Maintenance
Requirements



BLOCK AND GRAVEL BAG*CURB INLET PROTECTION

BLOCK AND GRAVEL BAG*CURB INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

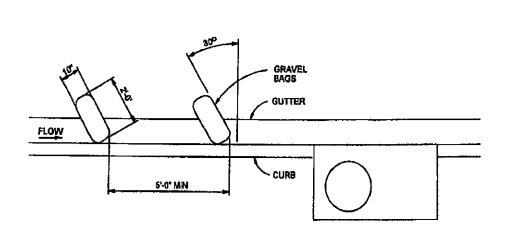
- 1. INLET PROYECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
- 2. CONCRETE BLOCKS ARE TO BE LAID AROUND THE INLET IN A SINGLE ROW ON THEIR SIDES, ABUTTING ONE ANOTHER WITH THE OPEN ENDS OF THE BLOCK FACING OUTWARD.
- 3. GRAVEL BAGB ARE TO BE PLACED AROUND THE CONCRETE BLOCKS CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
- 4. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
- 5. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEASY DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- 2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
- 3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
- 4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

** AN ALTERNATE 3.4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.

City of Colorado Springs Stormwater Quality Figure IP-3
Block & Gravel Bag Curb Inlet Protection



CURB SOCK INLET PROTECTION

CURB SOCK INLET PROTECTION NOTES

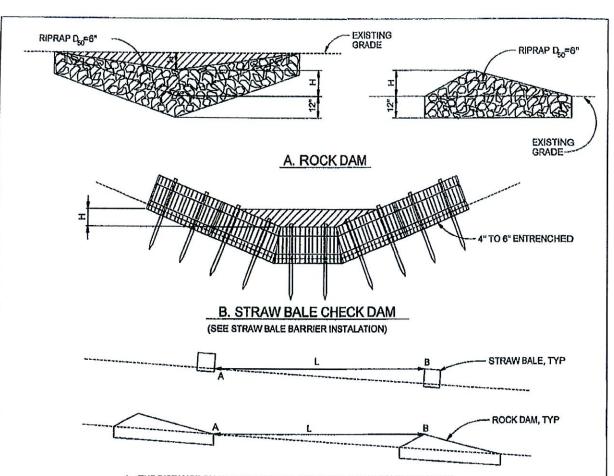
INSTALLATION REQUIREMENTS

- 1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
- 2. SOCK IS TO BE MADE OF 1/4 INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.
- 3. WASHED SAND OR GRAVEL 3/4 INCH TO 4 INCHES IN DIAMETER IS PLACED INSIDE THE SOCK.
- 4. PLACEMENT OF THE SOCK IS TO BE 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
- 5. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED AT A MINIMUM 5 FEET APART.
- 6. AT LEAST 2 CURB SOCKS IN SERIES IS REQUIRED.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS NO RAINFALL.
- 2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
- 3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SOCK WHEN GUTTER WIDTH IS FILLED.
- 4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure IP-4
Curb Sock Inlet Protection
Construction Detail and Maintenance
Regularments



L= THE DISTANCE SUCH THAT POINTS A AND B ARE AT THE SAME ELEVATION.

C. SPACING CHECK DAMS

CHECK DAM

CHECK DAM NOTES

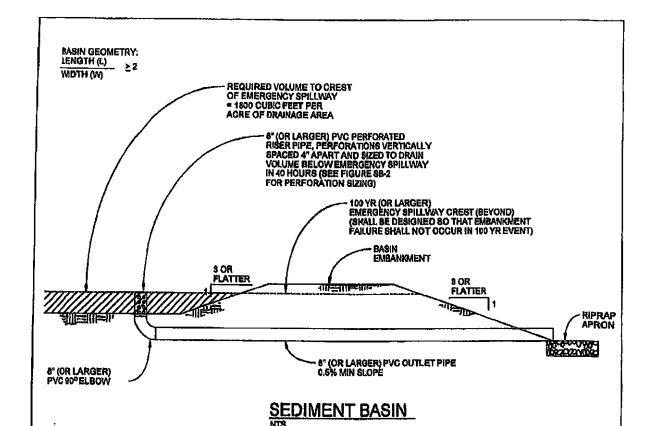
INSTALLATION REQUIREMENTS

- 1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
- 2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

MAINTENANCE REQUIREMENTS

- 1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
- 2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
- 3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
- 3. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
- 4. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

City of Colorado Springs Stormwater Quality Figure CD-1 Check Dam



SEDMENT BASIN NOTES

INSTALLATION REQUIREMENTS

- 1. SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
- 2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- 3. THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN ITS VOLUME IN 40 HOURS.
- 4. THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. BAFFLES MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
- 5. EMBANKMENT MATERIAL SHALL CONSIST OF SCIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SCIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- 6. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 80% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM 0 698.
- 7. WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA, FOR SAFETY REASONS, A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- 2. SEDIMENT BASINS SHALL BE CLEANED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
- 3. SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SB-1
Sediment Basin
Construction Detail and Maintenance
Requirements

Required Area per Row (in 3)

		1	Depth at Outlet (ft)						
		1.0	1.5	2.0	2.8	3.0	3.5	4.0	4.5
	2	15.04	7.71	5.10	3.78	2,95	2,41	2.02	1.73
	1	7.52	3.85	2.65	1.88	1.48	1.21	1.01	0,87
₽	0.6	4.61	2.31	1.53	1.13	0.89	0.72	0.61	0.52
(BCT)	0.4	3.01	1.64	1.02	0.75	0.69	0.48	0.40	0,35
	0.2	1,50	0.77	0.51	0.38	0.30	0.24	0.20	0.17
6	0.1	0.75	0.89	0.26	0.19	0.15	0,12	0,10	0.09
Volume	0,08	0.45	0.23	0.15	0.11	0.09	0.07	0.06	0.05
Ē	0.04	0.30	0.15	0.10	0.08	0.06	0.05	0.04	0.03
Design	0,02	0.15	0.08	0.05	0.04	0.03	0.02	0.02	0.02
đ	0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01

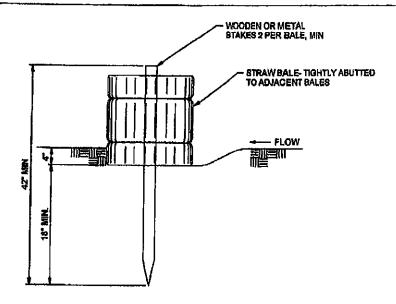
TABLE SB-1

Circular Perforation String

lole Diameter	Hole Olameter	Area per Row (in 4)				
(in)	(in)	n=1	n=2	n=3		
1/4	0.250	0.05	0.10	0.15		
5/16	0.313	0.0B	0.15	0.23		
3/8	0.375	0.11	0.22	0.93		
7/18	0,438	0.15	0.50	0,45		
1/2	0.500	0.20	0,39	0.69		
9/16	0.563	0.25	0.50	0.78		
5/8	0.625	0.31	0.61	0.92		
11/16	0.088	0.37	0.74	1.11		
3/4	0.750	0.44	0.88	1.33		
7/8	0.875	0,60	1.20	1,60		
1	1.000	0.78	1,57	2.88		
1 1/8	1.125	0.99	1.99	2.98		
1 1/4	1.250	1.23	2.45	89.6		
1 3/8	1.375	1.48	2.97	4.45		
1 1/2	1.600	1.77	8,59	5.30		
1 5/9	1.825	2,07	4.16	6.22		
1 3/4	1.750	2.41	4.81	7.22		
1 7/8	1.875	2.78	5,52	6.28		
2	2.000	3.14	6,28	9.42		
		of columns of parts	orations			
Minimum steet pl	mie thickness	1/4"	8/16"	3/8"		

TABLE SB-2

City of Colorado Springs Stormwater Quality Figure SB-2
Outlet Sizing
Application Techniques and Maintenance
Requirements



STRAW BALE BARRIER

STRAW BALE BARRIER NOTES

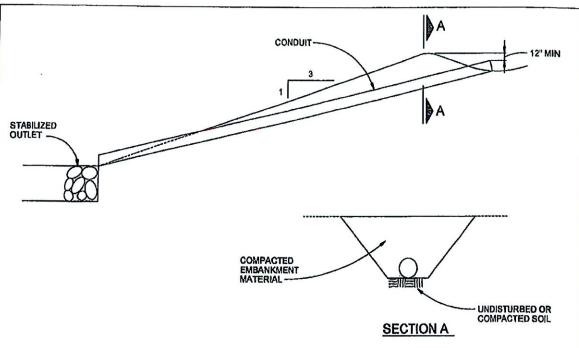
INSTALLATION REQUIREMENTS

- 1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. BALES SHALL CONSIST OF APPROXIMATELYS CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAWAND WEIGH NOT LESS THAN 35 POUNDS.
- 8. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
- 4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- 5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNOS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- 6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
- 7. GAPS BETWEEN BALES ARE TO BE CHINKED (FELED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE,
- B. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT STRAWBALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- 2. DAMAGEO OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL
- 3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
- 4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SBB-2
Straw Bale Barrier
Construction Detail and Maintenence
Requirements



SLOPE DRAIN NTS

SLOPE DRAIN NOTES

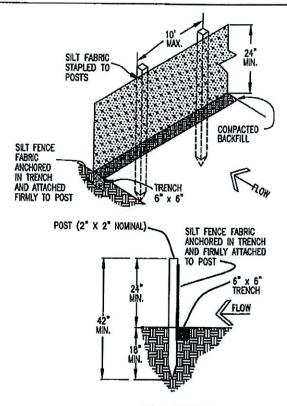
INSTALLATION REQUIREMENTS

- 1. THE SLOPE DRAIN IS TO BE DESIGNED TO CONVEY THE PEAK RUNOFF FOR THE 2-YEAR STORM.
- 2. PIPE MATERIAL MAY INCLUDE CORRUGATED METAL, OR RIGID OR FLEXIBLE PLASTIC.
- 3. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- 4. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
- 5. SLOPE DRAIN SECTIONS ARE TO BE SECURELY FASTENED TOGETHER AND HAVE WATERTIGHT FITTINGS.
- 6. THE OUTLET IS TO BE STABILIZED AND, UNLESS THE DRAIN DISCHARGES DIRECTLY TO A SEDIMENT BASIN, A TEMPORARY SURFACE IS TO BE PROVIDED TO CONVEY FLOWS DOWN STREAM.
- 7. IMMEDIATELY STABILIZE ALL AREAS DISTURBED BY INSTALLATION OR REMOVAL OF THE PIPE SLOPE DRAIN.

MAINTENANCE REQUIREMENTS

- 1. INLET AND OUTLET POINTS ARE TO BE CHECKED REGULARLY, AND AFTER HEAVY STORMS FOR CLOGGING AND OVERCHARGING. ANY BREAKS IN THE PIPE ARE TO BE PROMPTLY REPAIRED, AND CLOGS REMOVED AS NEEDED.
- 2. WATER IS NOT TO BYPASS OR UNDERCUT THE INLET OR PIPE. IF THESE PROBLEMS DO EXIST, THE HEADWALL NEEDS TO BE REINFORCED WITH COMPACT EARTH OR SANDBAGS.
- 3. THE OUTLET POINT IS TO BE FREE OF EROSION, AND, IF NECESSARY, ADDITIONAL OUTLET PROTECTION SHOULD BE INSTALLED.
- 4. CONSTRUCTION TRAFFIC IS NOT TO CROSS THE SLOPE DRAIN AND MATERIALS ARE NOT TO BE PLACED ON IT.
- 5. THE SLOPE DRAIN IS TO REMAIN IN PLACE UNTIL THE SLOPE HAS BEEN COMPLETELY STABILIZED OR UP TO 30 DAYS AFTER PERMANENT SLOPE STABILIZATION.

City of Colorado Springs Stormwater Quality Figure SD-1 Slope Drain



SILT FENCE

SILT FENCE NOTES

INSTALLATION REQUIREMENTS

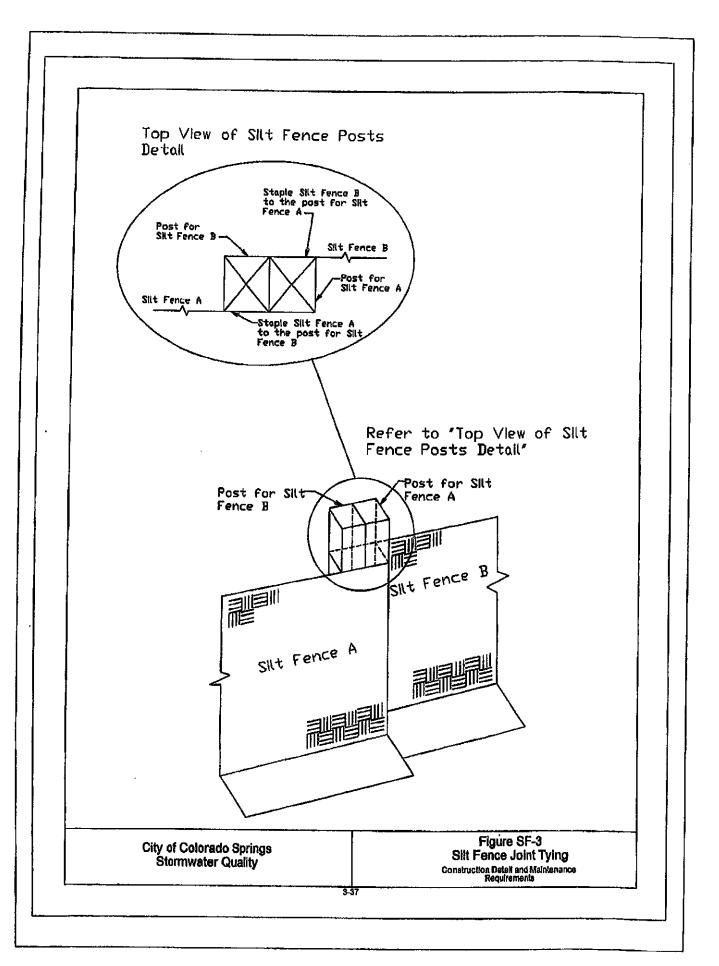
- 1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- 3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- 4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #8 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- 5. WHILE NOT REQUIRED, WARE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WRES OR HOG RINGS. THE WRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

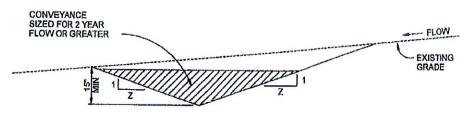
- 6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE YOE OF THE FILL IS RECOMMENDED.
- 7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

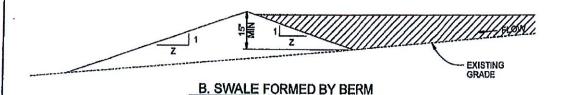
- 1. CONTRACTOR SHALL INSPECT SILT FENCES
 IMMEDIATELY AFTER EACH RAINFALL, AT LEAST
 DAILY DURING PROLONGED RAINFALL, AND
 WEEKLY DURING PERIODS OF NO RAINFALL.
 DAMAGED, COLLAPSED, UNENTRENCHED OR
 INEFFECTIVE SILT FENCES SHALL BE PROMPTLY
 REPAIRED OR REPLACED.
- 2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- 3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SF-2 Silt Fence





A. EXCAVATED SWALE



COMPACTED EMBANKMENT MATERIAL

C. SWALE FORMED BY CUT AND FILL

TEMPORARY SWALE

TEMPORARY SWALE NOTES

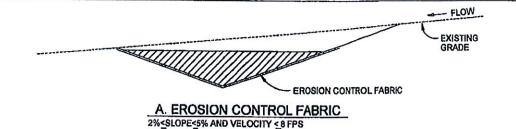
INSTALLATION REQUIREMENTS

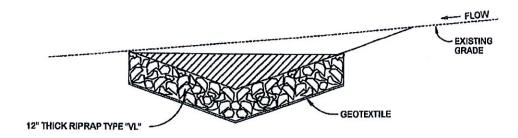
- 1. TEMPORARY SWALES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- 3. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- 4. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
- 5. SWALES WITH SLOPE > 2% SHALL BE LINED, SEE FIGURE TSW-3.
- 6. SWALES ARE TO DRAIN INTO A SEDIMENT BASIN OR OTHER STABILIZED OUTLET.
- 7. Z SHALL BE 3 OR GREATER.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT SWALES AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
- 2. SWALES SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.
- 3. ERODED SLOPES OR DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
- 4. TEMPORARY SWALES SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure TSW-2 Temporary Swale





B. RIPRAP SLOPE>5% OR VELOCITY >8 FPS

SWALE LINING

SWALE LINING NOTES

INSTALLATION REQUIREMENTS

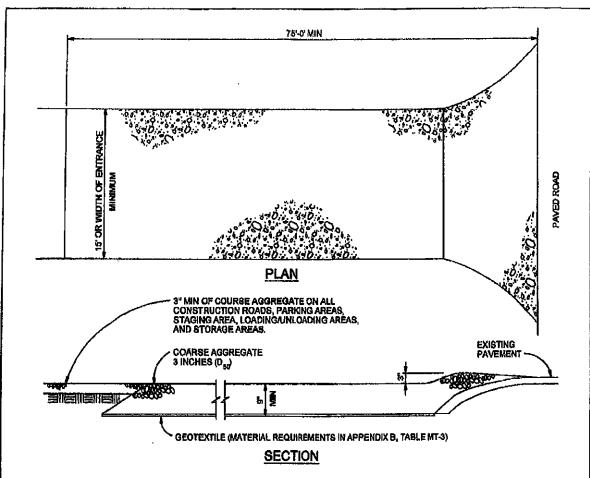
- 1. REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER INSTALLATION OF EROSION CONTROL FABRIC LINING.
- 2. SWALES WITH EASILY EROSIVE SOILS AND SLOPES LESS THAN 2%, SHALL BE LINED WITH EROSION CONTROL FABRIC.
- 3. VELOCITIES FOR EROSION CONTROL FABRICS SHALL NOT EXCEED 8 FPS. SWALES WITH VELOCITIES GREATER THAN 8 FPS SHALL BE LINED WITH RIP RAP.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT SWALE LININGS AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
- 2. DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
- 3. REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER MAINTENANCE.
- 4. DISPLACED RIPRAP OR COARSE AGGREGATE IS TO BE REPLACED AS SOON AS POSSIBLE.
- 5. SWALE LININGS ARE TO REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL THE TEMPORARY SWALE IS REMOVED.

City of Colorado Springs Stormwater Quality Figure TSW-3 Swale Linings

Construction Detail and Maintenance



VEHICLE TRACKING

VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

- 1, ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION REGINANCE.
- 2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH ANAPRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
- S. AREAS TO BE STABILIZED ARE TO SE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
- 4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
- 5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

- 1. REGULAR INSPECTIONS ARE TO SE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
- 2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
- 3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
- 4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
- 5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

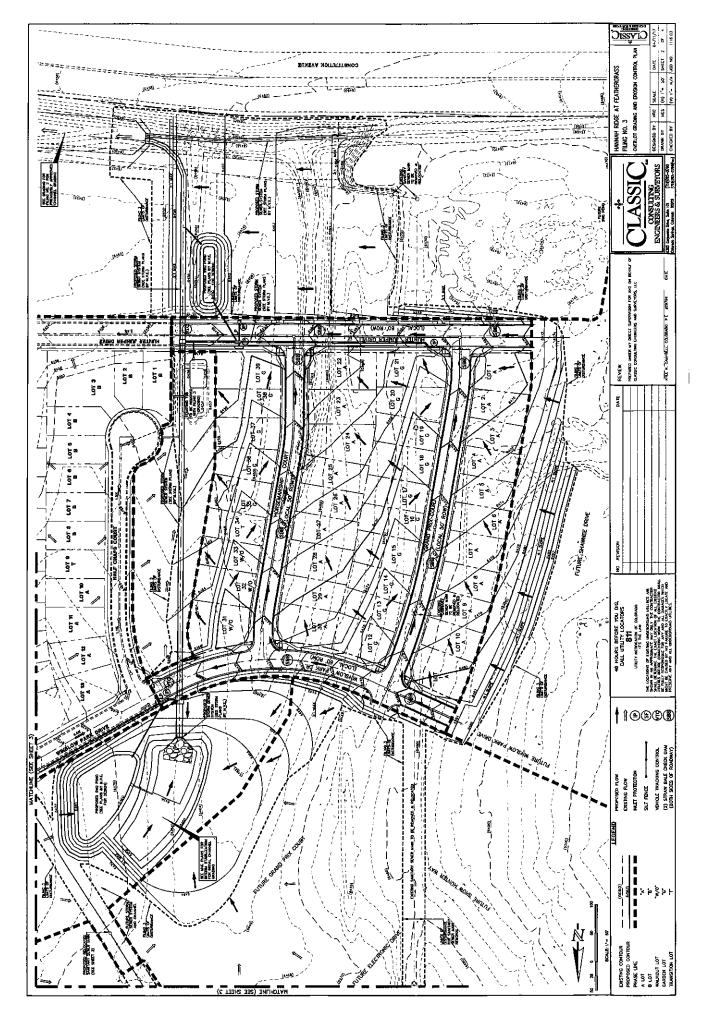
City of Colorado Springs Stormwater Quality Figure VT-2 Vehicle Tracking

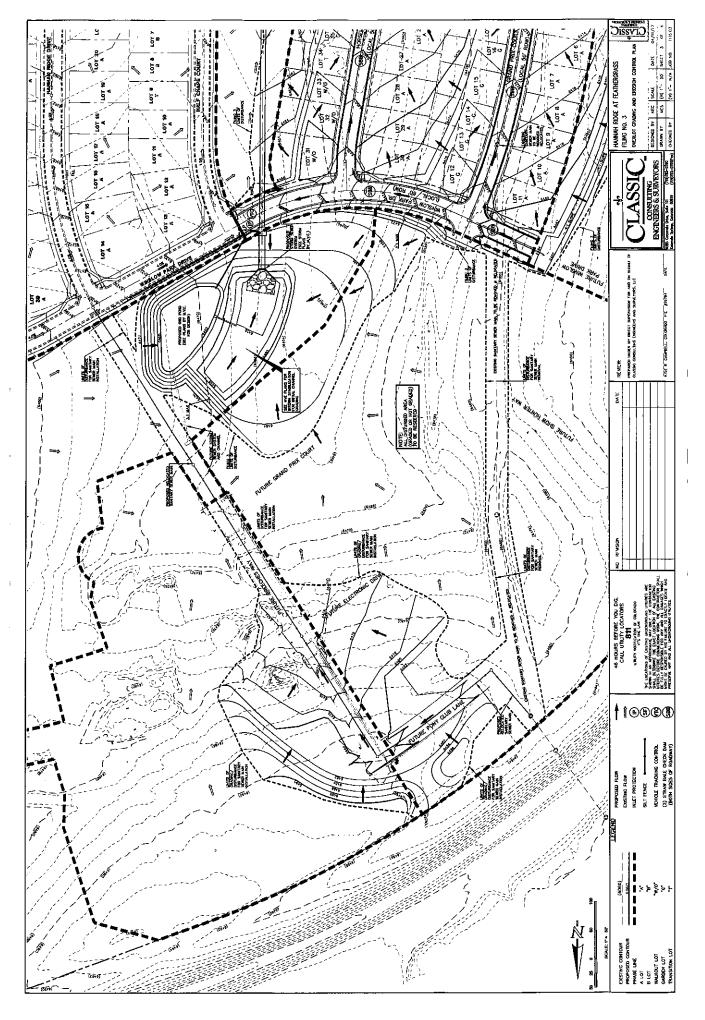
Application Examples

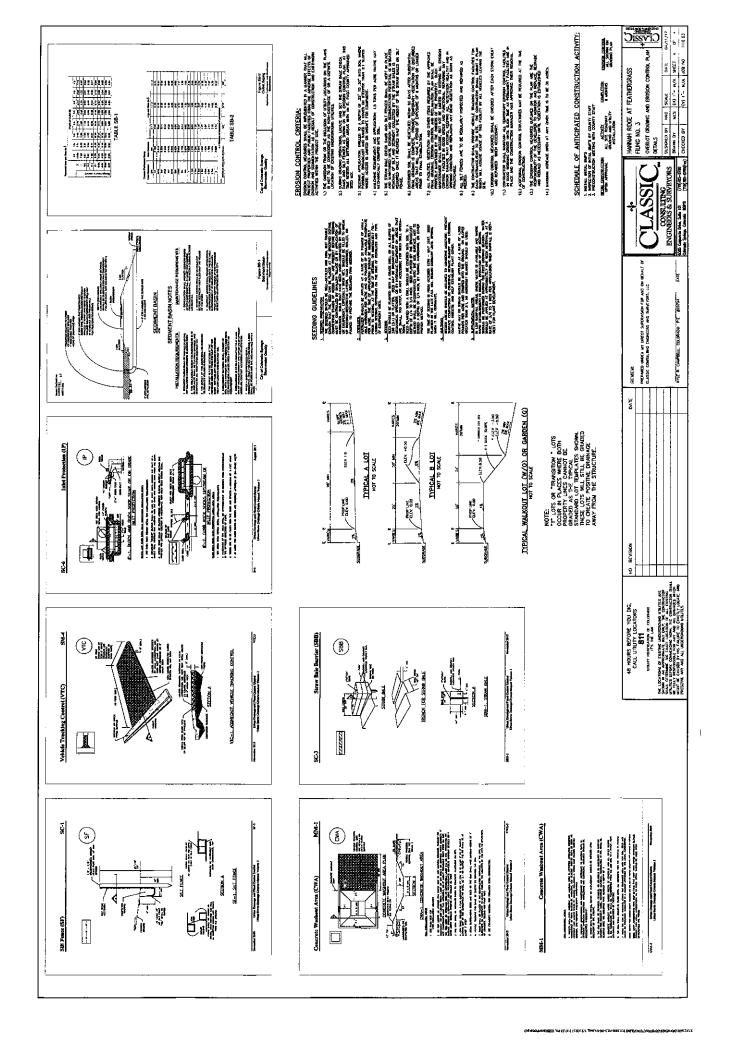
SITE MAP/ EROSION AND STORMWATER QUALITY CONTROL PLAN



of orest bill compy by the recommendate of the subsects record and place and the bill set of designations of the subsects recommendate, the orest bill compy bill the recommendate of the stackers and probes compy and. AND THE THEORY IN PROPERTION OF AN ONE CONSEQUENCE OF CONTINUES THE CONTINUES OF CONTINUES THE THEORY OF CONTINUES OF CONT OVERLOT BRADING AND ERDSON CONTROL PLAN-TITLE SHEET AND THE RESIDENCE OF THE PROPERTY OF CONTINUES AND THE AND THE AND THE PROPERTY OF CONTINUES AND THE A HANNAH RIDGE AT FEATHERGRASS MET 1 07 4 MET 3 07 4 MET 3 07 4 SAQUING AND ENOSION CONTROL PLAN ENGNEER'S STATULED WAS GRAVED AND STATULED WAS SACROMED AND STATULED WAS RECOVERED WHICH WE NO TO CONTROL TO THE WAST OF WITH SHADING AND BOLD SACROMED TO THE WAST OF WITH SHADING AND STATULED BY THE COUNTRY TAX BALLING. КПЕ В СМЕВВЦ 6000400 Р.Е. 128794 ТОТ НЕ ОН ПЕ ВОНИ ОГОЛОНО СОНОВЛЕНИ ВНИВЕВТЬ А SLANDOW CLA T. LOCATORS (214) A.S.—M74 JOHNAY USA (LOCATORS) RTI ALCON FIRE PROTECTION UNSTINCE COS N. MEZHON FO. MECH. OSLENGO (SES) SHIP HAPPED (778) 450—4550 ACCUT REPORTEDTY FOR ANY LABOUT CAUSED BY ANY ACCU. THE BRICE OFFICE OF THE PARTY OF THE PLAN OFFICE PLAN OWNER/DEVELOPER STATEMENT: CONSULTING ENGINEERS & SURVEYORS SEE Company Company (1997) (1997) (1997) ENGINEER'S STATEMENT ENWELL FINE: DA ADMEDI CLASSI CIRC COMPANIED ENGREENING DAYSON SHEET INDEX ACTIVIDADE DOMPHIC AGENCIES: TML SHOWER PRIPARD UNDER AT DREET SAPENASON FOR AND ON BENALT SLASSE CONSULTING ENGINEERS AND SARNETONS, LLC Ē OVERLOT GRADING AND EROSION CONTROL PLAN KTER CHAPTELL COLORADO P.C. (2979) HANNAH RIDGE AT FEATHERGRASS FILING NO. 3 DATE PLEASE NO. 2 KEY MAP SCALE: 1" = 200 Thos Availe APRIL 2017 FILING NO. 3 = 2 NO REMISON DECTION VICINITY MAP NOT TO SCALE 48 HOURS BEFORE YOU DIG CALL UTILITY LOCATORS 811 SITE UTLITY MORPOWINGS OF COLORADO MAHA BLVD PLATIE AVE The Opposition of Landscape To As Landscape To Company of the Comp DICENTIAL DES COMPANION ACTUALITY DE CONTROCTOR ANY MOTION. THE MOTION AND EXMANIC CONTROL AND MOTION OF A POCKETOR OF A POCKETOR OF A POCKETOR AND MOTION AND MOTION OF A REPRESENTANT MOTION OF A REPRESENTANT MOTION AND MOTION OF A POCKETOR OF A POCKETOR AND MOTION AND MOTIO INTERNATIONAL DEVELOR HENCE THAN A TONG OR GAPPE PETERSTRUCK, A EXCEPT ACCOUNTING GLAD TO A MOUSE TIME DEPART ON DESCRIPTION THAN A WALL STATES TO BE STRUCKED AN OR ACADISATES OF THE MOST STOOT OF DEAL TOTAL WALL THE THAN A DEPART OF THAN A WALL STOOT BY A MOT STATES OF THE MOST STOOT OF THE MOST steremente cocomoco pron constructor estes socia, not cause de "merator do cause políticas, doctamendos, de doctogrados os Stores para al anterior de Cartín destambace, somo de dome a a aumente hant manazas pallativas de any de-set on dee set Natura, arculhono statudos. овых этрысу, этисловоў кам ретакатым мескуста мак омеж снажена, выча, нак аметистом 30 ка 10 состум кад выша На втебует нас вучцё метры, пров бутамо 51кт вывук, нешено ант завука; отв вакамика; этом вичалая этаты от Калатех. THE STATE OF THE S INDIAN CONTRO. BANKTINN B THE GOLD ON ADDES STEDEN THAN 3-1. BRAING, CONTROLLED, CALCADIES, ON EVEN ACT ALLIES, BE HER STEEL ALL'S ON ENDING AND CONTROLLED ООПРИСТИ ВИЦЕ ВЕЗООВВЕТ СТА МЕ ВОБИНЕ БУ ИЦ МАТЕЗ ВЕЗ ПЕ СООБЛЕСТВЕ STE ГОВ ВВРОЗЕ И АСОВЕНИЕ ВИТ ПОО ИЗТИТ ВЕЗОДИТИ ВЕЗОВЕТИТЕ. ВО ООСТИТЕСТВО БРИМ, ПЕТ ЖАЗЕ ФЕДИНО МАТЕЛЕ, ВОБТЕЗ ОТ ИНИВИ ВЛЕВНО НАТИЛИЈА. УНИЦ ВЕ ВЕЗОТ БИНИТ, ОТ ООСТИТЕСТВО. ац Рокуст, опамой и райн избилавае? Ваад имелом аменитам коситами за восом им отойне сокить избиле Вособы от восомуются ин перементо основа, основа, основа основа от исполька стоял мана. (DOS) чоше I аме Коситами ин так тотомити маналет пам (DAMP). hy days exturbed sou, is coroced by slick a meets so as to presence; reduce accessary for presence as presented The state of presences that is corocal designers, and charited so that the stories are is the defined found. Soult is easien to be sourced that for the state of the s DOMEN'S TO DATABLE TO MINISTER, WOUNDED HERS MAINTEED AGENTS WALL BE RESPONDED. FOR THE BENOVE OF ALL COMMINISTES, NOT, NEWSTRON, NOS, NEWSTRON, NOS STRONGS, NOS STRONGS, NOS, NEWSTRONGS, NOS STRONGS, CONFESSION OF STRONGS, NOS STRONGS, CONFESSION OF STRONGS OF STRONGS, CONFESSION NOS STRONGS, NOS STRONGS, NOS STRONGS, CONFESSION NOS STRONGS, NOS STRONGS he ochacus are to de leed for the Corinactics, and have the potental, to de relatedd as streaming herest subersor for the cognitive and the terms of terms of the terms of he das reporter for the sit has soon provided by Optica Diametric and, Tildd "Sis, Geology, Colocol Hajard and Preliada Subdiated som presidental — bridgischy — Prose 11, card land 12, 2013, and skall de commend a part of these plants. к, кдету бор кере то же, жележа деку е окапитом, керекул кумента декул кумента болежу болежу болежу болежу болежу к тракуле бу соебитство кумет заки, замит, к пред кумента кумента кумента возбилену болежу болежу болежите болежу мекулену кумет битору соебитство кумет болежу болежу болежу болежу болежу болежу болежу болежу болежите болежу болеж THE CONTRACTOR HELL LAND THE HECCUSARY PRECUITIONS TO PROTECT CASTING UTILITIES FROM DAMAGE CUP TO THIS CHOPATION. ANY DAMAGE TO THE CONTRACTOR. TO THE CONTRACTOR. AL INFORMY DODGE CHÂN FALING MAINE BY AND AL PRIMING PALITY WITHOUT TO CONTROL DIRECT OF ANY CHÂN BETWEEN CHÂN BY THE STATE OF THE STAT the grants of withdras stoken of the project set skall be larted, as ways as practical, to that quality regarded to prov the face in a observe scokense. All withdras stoken off-bit skall is stoken in a a askal, foreign's waver, in their directal Consumest, with observe wavershares, cuesta. A SERVAJE STORIOUTO MANADORO PARA (NOMO) TON THE PROJECT SHALL DE COMPUTTO AND HE POLICIA NO TERMINATO COMATA TONIO MENTANCIA STORIO TONIO TONIO MENTANCIA CONTRACTOR AND CONTRACTOR TONIO TONIO TERMINATORIO THE DESCRIPTORIO TONIO TONIO TONIO TONIO TONIO TALLE NEL SELLE DESCRIPTORIO TONIO TERMINATORIO THE MODE TO ACTUAL COMMUNICION THE FROMITS SHALL WORT HE LOCATOR OF COSTING INTER. A MINISTER SOURCE SHALL BE MALMAL OF SIT BARNO CHITARICK OFFICIATION FOR UTUATO AS REQUEDS TO SMEAKE DATE THOSE LAWE PROMIST THO ONE SHALL BE MALMALE OF SIT BARNO CHITARICK OFFICIATION FOR UTUATO AS REQUEDS TO SMEAKE DATE THOSE LAWEN in soul of the respondently of the compactor to what the editoric and edition of all exemptions utilizes along the regions of the first of the second that the regions of the compactor of of the compacto CONTROL NO A comoste mash bater same in co*stande and* deposed of in accompance fifth the their, no wash rafer same of disco Allongs to ramon to state waters, are long and supplied of supplierant store orannos system of facilities. ANY TAMPONANY OF PODMINDS FASTS DESCRIBE AND CONSTRUCTIO FOR THE CONCESSAGE OF STORMANTS AROUND, THROUGH DARN DESCRIBING MEA SHALL HE DESCRIBE TO LIAST THE DISCURLE TO A NON-CROOME VELICITY. ALL BACKTLE, SJR-BASK LAGUNG BASK COURCE (CASS 8) BATTOLA, SHALL BE COLPUITED TO THE SOCK CHOMISTYS MICHAMPORTD IT IS, PASO COUNTY OFFICIALLY SPRINGS BASISHAN DIMESON. THE FEMERAL WAS MENDEN, AND OF COURT IS ROUGHED UNDO ALL TRE-ARE PAGE. odnisticinom may not compact vate, a constitucinom pedat is ostaneo finoa "planaeo and communismos compensati di held with "planaeo communismos compensati di peda men "planaeo communismos compensati di peda men "planaeo and communismos compensati di peda men "planaeo" de communismos communismo MAST BATTA/DOIT THE SITE AT APPROADE CONSTILLETION ACRESS PORTS. TION THE PERSONS SHALL MORPY THE LOCATION OF EMSTINA LITLERS. BIALL CAUSE THE MITCHAUM BASIS OF BEARINGS: ħ, ć







Markup Summary

dsdrice (4)

Subject: Cloud+ Page Label: 4 Lock: Unlocked

Status:

Checkmark: Unchecked

Author: dsdrice

Date: 8/29/2017 12:08:41 PM

Color:

Subject: Text Box Page Label: 5 Lock: Unlocked

Status:

Checkmark: Unchecked

Author: dsdrice

Date: 8/29/2017 12:09:49 PM

Color:

Subject: Cloud+ Page Label: 6 Lock: Unlocked

Status:

Checkmark: Unchecked

Author: dsdrice

Date: 8/29/2017 12:11:25 PM

Color:

Subject: Cloud+ Page Label: 10 Lock: Unlocked Status:

Checkmark: Unchecked

Author: dsdrice

Date: 8/29/2017 12:12:04 PM

Color:

Revise or delete

Add temporary and permanent seeding and

mulching

Are there batch plants in this filing?

Are there batch plants in this filing?