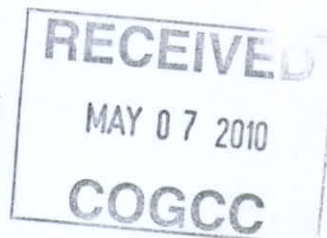




Proposed BMPs

*1/8 +
2 maps*



**CONSTRUCTION OF THE BP CR 314
WATER TRANSFER FACILITY
Supplemental STORM WATER MANAGEMENT PLAN (SWMP)
Appendix MW 18 March 2010**

1.0 SITE AND PROJECT INFORMATION

Project Name: CR 314 Water Transfer Facility; Pad Construction

Project Location: The project is located on private lands located in Sec 1; T33N, R08W SUL La Plata County, Colorado N.M.P.M.
Lat/Long: 37.13400149°N 107.66551283°W

Owner Name and Address: BP America Production Company
380 Airport Road
Durango, CO 81301

Facility Contact and Telephone Number: Dan Fauth
(970) 247-6800

Project Specifics

- a. Description of the Construction Activity: Construction of a Water Transfer Facility.
- b. Sequence of Major Construction Activities:
. Facility Construction-Clearing and Grading
. Interim Reclamation
- c. Estimated Total Area of Site disturbance ~.91 Acres
- d_a. Estimated Runoff Coefficient, Before and After
- | Resource: | Before: | After: |
|--------------------|---------|-----------|
| Grasslands/Pasture | 0.34 | 0.34/0.75 |

d_b. Existing Soil Data:

Soil:	Area:	Erosion:
Arboles Clay Loam	100% of Site	High

e. Description of Existing Vegetation and Estimate of Percent Aerial Cover:

Grasslands/Pasture ~100%

f. Description of Potential Pollution Sources:

1) Diesel fuel and gasoline for equipment and vehicles; 2) Lubricating oil 3) Casing cement.

g. Description of Anticipated

Non-storm water Discharges: None Anticipated

h. Name of Receiving Water
 and Type of Outfalls: Irrigation ditch and Rock Creek via overland flow

2.0 SITE MAPS

The attached maps (Exhibit C) illustrate the approximate location of the pad. Construction activities and areas of cut and fill and soil disturbance are limited to the area surveyed for the location. The maps illustrate the features required by the CDPS General Permit for field wide construction activities on fee lands under the field wide permit. There are no point-source outfall structures; runoff enters the receiving watersheds and water bodies by overland flow.

3.0 BEST MANAGEMENT PRACTICES FOR STORMWATER POLLUTION PREVENTION

The Best Management Practices (BMP) to be employed during the construction of this water transfer facility project are outlined in the field wide Storm Water Management Plan. Specific BMPs to be implemented during the proposed project are described in Exhibit B.

4.0 INSPECTION AND MAINTENANCE

Inspections of the project site and maintenance of BMPs installed shall be conducted in accordance with the CDPHE CDPS permit and the field wide plan.

5.0 TERMINATION

At this time no formal permit termination is necessary as the PHASE II rule under the CDPHE is covered under a field wide permit. Upon final stabilization of the site covered under this supplemental plan, the plan and its associated inspections should be kept for at least three years following the date of final stabilization.

EXHIBIT A
Implementation Responsibility Transfer Log

By signing below, I certify under penalty of law that I understand and am responsible for the maintenance and implementation of the terms and conditions of the general Colorado Discharge Pollutant System (CDPS) permit and measures identified by the above site specific Storm Water Management Plan (SWMP) that may authorize the storm water discharges associated with my activities from the construction site identified in Section 6.0 of this site specific SWMP.

Site Responsibilities:

Name and Title (type or print): _____

Signature: _____

Date: _____

By signing below, I certify under penalty of law that I understand and am responsible for the maintenance and implementation of the terms and conditions of the general Colorado Discharge Pollutant System (CDPS) permit and measures identified by the above site specific Storm Water Management Plan (SWMP) that may authorize the storm water discharges associated with my activities from the construction site identified in Section 6.0 of this site specific SWMP.

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Site Responsibilities:

Name and Title (type or print): _____

Signature: _____

Date: _____

EXHIBIT B
Detailed BMPs & BMP Alterations Log

BMPs

Identified Implementation Locations:

1. Access Road & facility Construction (See attached Figure 1)

BMPs: 2, 14, 24 & 40

- Implement wattles where shown on maps.
- Install Vehicle Tracking Control at entrance 6-8" Diameterx3" Deep.
- Install 16" Diameter Corrugated Metal Pipe in CR Borrow Ditch for access road.
- Install Inlet and Outlet Protection for CMP as indicated.
- Construct earthen berm at top of slope south of Tank Location. Per specs in drawings.
- No disturbance shall occur in the NE corner. Stormwater control area.
- Establish sub-base to route surface water as sheet flow off to the north and east.
- Establish base lift gravel to accommodate level operations and stabilize pad surface.

2. Interim Reclamation (See attached Figure 2)

BMPs: 2, 24, & 34

- Reclaim all cut and fill slopes to 3:1 or less.
- Spread top-soil over fill slopes & blend to existing grade areas where sloping meets pre disturbance grade.
- Install coconut fiber Erosion Control Blanket on diversion berm, and slope; Per manufacturers specifications.
- Repair or replace construction phase wattles if necessary.

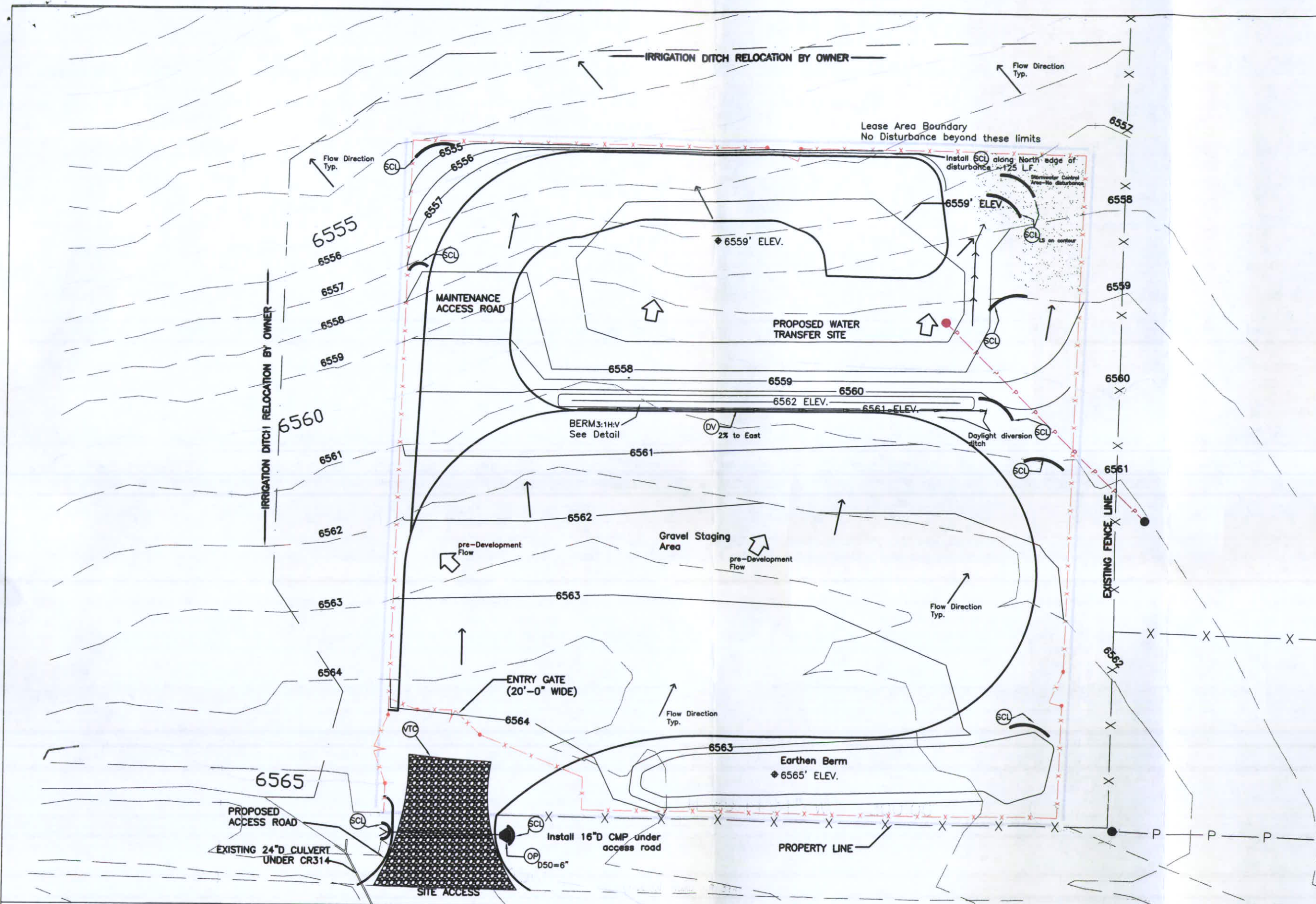
3. Construction Operations


- Any fueling, materials or loading/unloading activities that may contribute to storm water run-off shall be maintained within the graveled pad area and contained in proper containers and/or sheltered from exposure.
- Any equipment maintenance shall be avoided during construction—in the event maintenance must occur, it shall be conducted within the graveled pad area, fluids shall be captured within spill proof containers, and absorbent mats shall be utilized beneath maintenance operations.
- Contaminated soil should be collected and disposed of at an appropriate soil farm or similar facility.

4. Re-seeding & BMP Removal

- Re-seed as soon as possible following reclamation-provided season and weather permits and cover with 2 tons/acre of weed free straw mulch. Tackify or crimp the mulch to the exposed soil surfaces.
 - Cut/Fill Slopes, & berms, swales, and diversion ditches.
- A grass range seed mix shall be used and should implement an annual cover or triticale.
- Remove VTC upon completing major construction activities.
- Upon 70% Re-Vegetation across site, including earthen berms, remove wattles and any other temporary erosion and sediment control BMP.
- Maintain structural long term BMP's to allow surface flow and minimize erosion and offsite siltation.

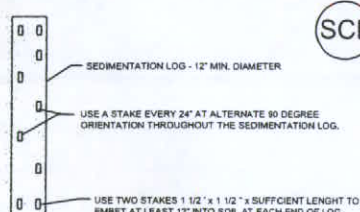
EXHIBIT C
Maps






GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

Sediment Control Log Installation



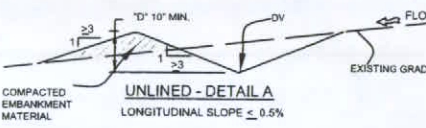
SEDIMENTATION LOG - 12" MIN. DIAMETER
USE A STAKE EVERY 24" AT ALTERNATE 90 DEGREE ORIENTATION THROUGHOUT THE SEDIMENTATION LOG.
USE TWO STAKES 1 1/2" x 1 1/2" x SUFFICIENT LENGTH TO EMBED AT LEAST 12" INTO SOIL AT EACH END OF LOG.



STAKE AT 90 DEG. TO EACH OTHER
WETLANDS OR FEATURES REQUIRING PROTECTION

Source: Urban Drainage Storm Drainage Criteria Manual V.III

Berm Detail



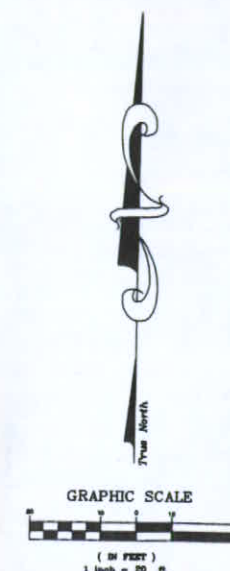
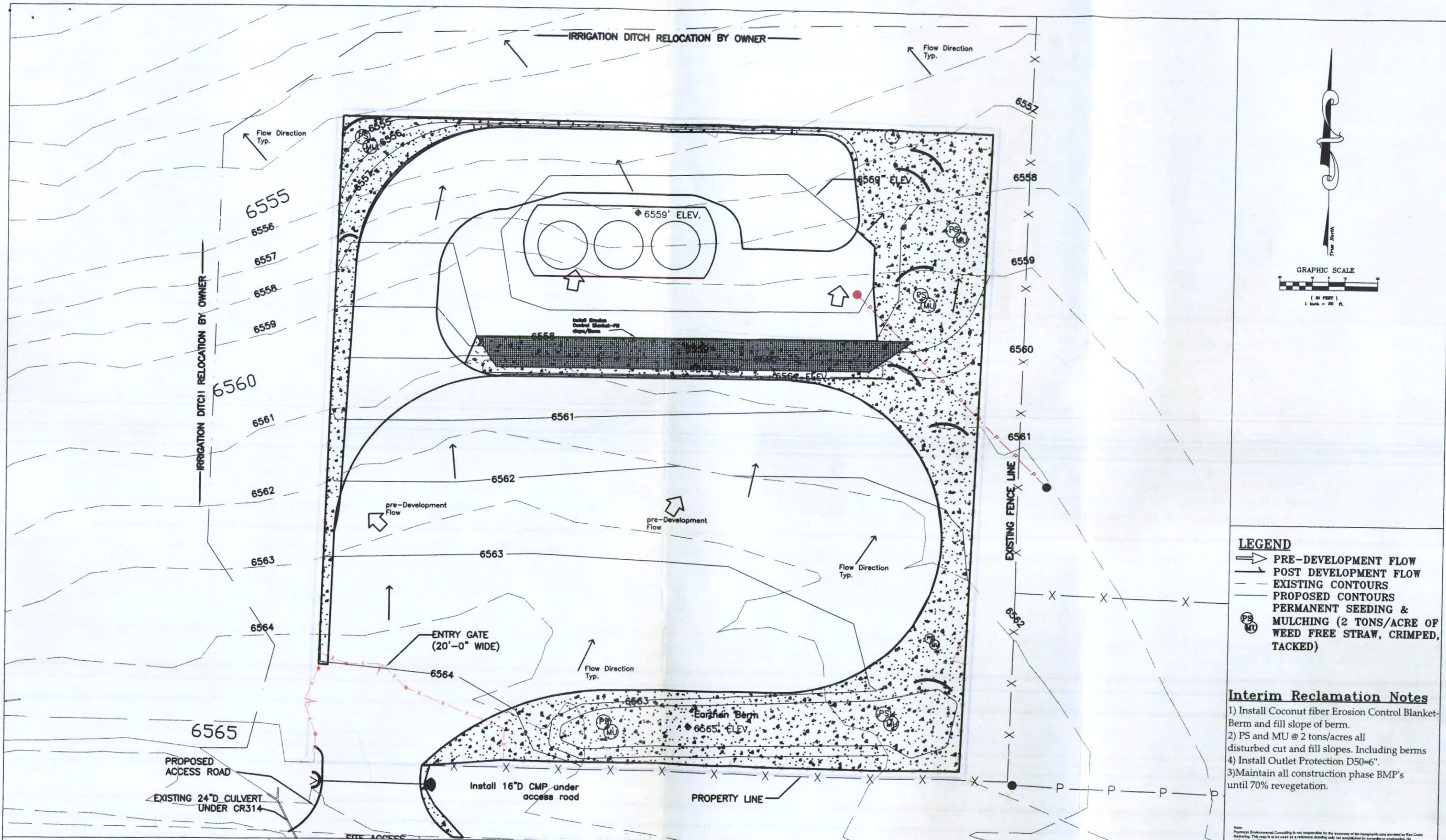
10' MIN.
COMPACTED EMBANKMENT MATERIAL
UNLINED - DETAIL A
LONGITUDINAL SLOPE ≤ 0.5%

Source: Urban Drainage Storm Drainage Criteria Manual V.III

LEGEND

- ➔ PRE-DEVELOPMENT FLOW
- ➔ POST DEVELOPMENT FLOW
- EXISTING CONTOURS
- PROPOSED CONTOURS
- (SCL) SEDIMENT CONTROL LOGS
- (IP) INLET PROTECTION
- (OP) OUTLET PROTECTION
- (VTC) Vehicle Tracking Control
- (6-8" D 3" Deep.)
- (DV) Diversion Ditch

Note:
Prymors Environmental Consulting is not responsible for the accuracy of the topographic data provided by Red Cedar Gathering. This map is to be used as a reference drawing only not established for surveying or engineering. No underground utilities are outlined on this map contractors are encouraged to make a "one call" prior to ground disturbance activities.



WTS 314 Water Transfer Facility
Interim Reclamation

BP American-San Juan North
LA PLATA COUNTY, COLORADO

DATE: March 10, 2010
DRAWN BY: BTC
CHECKED BY: JFJ
REVISION DATE:



PRYMORS ENVIRONMENTAL CONSULTING, INC.

"Dedicating resources to tomorrow's environment for today's industry."
223 Chickenhawk Lane Ignacio, CO (970) 385-4732