Huntington Power Plant

CCR LANDFILL POST-CLOSURE PLAN

Prepared for:

PACIFICORP
A MIDAMERICAN ENERGY HOLDINGS COMPANY

Prepared by:

Water & Environmental TECHNOLOGIES

Moonlight Professional Building
480 East Park Street
Butte, MT 59701

September 2016

INDEX AND CERTIFICATION

PacifiCorp
Huntington Power Plant
CCR Landfill
Post Closure Plan

REPORT INDEX

Chapter Number	Chapter Title	Number of Pages
1.0	Introduction	1
2.0	Post Closure Care Plan	7
Attachment 1	Construction Drawings	4

CERTIFICATION

I certify, as a Professional Engineer in the State of Utah, that this document was assembled by me or by someone under my direct supervision. This report is not intended or represented to be suitable for reuse by PacifiCorp or others without specific verification or adaptation by the Engineer.

I certify, as a Professional Engineer in the State of Utah, that, to the best of my knowledge and engineering judgment, the CCR landfill post-closure plan provided in this document meets the requirements of 40 Code of Federal Regulations §257.104.

Steven M. Anderson , P.E.

Date: 9/6/16

Steven M. Anderson
License Number UT PE 8049139-2202

My license renewal date is March 31st, 2017

Table of Contents

List of Attachments iii

List of Abbreviations iv

1.0 INTRODUCTION 1

1.1 Facility Description 1

1.2 Maximum Inventory of Waste 1

2.0 POST CLOSURE CARE PLAN 2

2.1 Inspection, Maintenance, and Monitoring Procedures 2

2.1.1 Visual Inspection 2

2.1.2 Final Cover Monitoring, Maintenance, and Contingency for Repairs 2

2.1.3 Groundwater Monitoring System 2

2.1.4 Surface Water Management System 2

2.1.5 Site Roads 2

2.2 Groundwater Monitoring 3

2.3 Facility Contact 3

2.4 Facility End Use 3

2.5 Amendment of Post-Closure Plan 3

2.6 Post-Closure Care Completion Certification 3

2.7 Record Keeping, Notification and Internet Reporting 3

2.7.1 Record Keeping 4

2.7.2 Notification 4

2.7.3 Publicly Accessible Internet Site Requirements 4

List of Attachments

Attachment 1 Construction Drawings

List of Abbreviations

Abbreviation	Term/Phrase
CCR	Coal Combustion Residual
SAP	Sampling and Analysis Plan

1.0 INTRODUCTION

This Closure and Post Closure Plan describes the steps necessary to partially or entirely close the Huntington Power Plant CCR Landfill at any point during its active life or at the end of its operating life. Included are the major activities that will be performed to inspect, maintain, and monitor the facility during the post closure period. This Plan will be updated if any changes occur at the facility which requires a deviation from the approved Closure and Post Closure Plan.

1.1 Facility Description

The Huntington Plant is a coal-fired power plant owned and operated by PacifiCorp and located near Huntington, Utah. The Huntington Plant disposes of coal combustion ash at a combustion waste landfill located southeast of the existing plant.

Huntington Plant produces 895 megawatts of electricity per year. The plant burns approximately 3 million tons of sub-bituminous coal per year.

1.2 Maximum Inventory of Waste

The estimated maximum inventory of waste over the active life of the landfill is estimated to be about 8.4 million cubic yards. This is based on the current operations plan. Upon final closure of this facility, PacifiCorp – Huntington Power Plant shall submit to the appropriate agencies an estimate of the maximum amount of waste that has been disposed in the landfill. This may be accomplished by comparing the initial and final contours of the facility or the use of volume reports completed during the active life of the landfill.

2.0 POST CLOSURE CARE PLAN

The purpose of this Post Closure Plan is to describe the manner in which post-closure care for the CCR landfill is performed in accordance with the current CCR regulations. These procedures apply to the final cover, groundwater, and surface water after the closure of the landfill and are to continue for 30 years.

2.1 Inspection, Maintenance, and Monitoring Procedures

Regular inspection, maintenance, and monitoring shall be performed in accordance with the current CCR regulations to maintain the integrity and effectiveness of the final cover system.

2.1.1 Visual Inspection

Visual inspection of the final cover shall be performed every 6 months and after every 5-year, 24-hour precipitation event (or 1.5 inches in 24 hours) to ensure effectiveness of the final cover. The visual inspection is to include a site inspection for items such as: settlement, subsidence, erosion, or other events. Special attention is to be paid to preventing run-on and run off from eroding and damaging the final cover.

2.1.2 Final Cover Monitoring, Maintenance, and Contingency for Repairs

Final cover monitoring is to include the visual inspections. If any issues are discovered during the visual inspection, maintenance will be performed in a timely manner to correct the issues.

2.1.3 Groundwater Monitoring System

Maintaining the groundwater monitoring system and monitoring groundwater shall be done in accordance with the Sampling and Analysis Plan (SAP) for the Huntington Power Plant. The SAP will be completed per current CCR regulations §257.90-98.

2.1.4 Surface Water Management System

The surface water management system shall be constructed of grass contour ditches, rip-rap conveyance channels and sediment catch basins sized to handle 100-year storm events as described in the Closure Plan. All surface water components will be inspected at least every 6 months and after every 5-year, 24-hour precipitation event and maintained as needed.

2.1.5 Site Roads

Site roads shall be maintained in a manner to promote drainage and reduce erosion.

2.2 Groundwater Monitoring

Groundwater monitoring will continue to be performed throughout the post-closure period and in accordance with the SAP for the Huntington Power Plant, federal CCR regulations and Utah statute, when adopted, to ensure groundwater passing the waste boundary of the CCR unit is not contaminated.

2.3 Facility Contact

Darrell Cunningham, Plant Manager
DJCunningham@pacificorp.com
(435) 687-4211

2.4 Facility End Use

Post-closure use of the facility will not disturb the integrity of the final cover, liners or any other component of the containment system or the function of the monitoring systems. If disturbance of the final cover, liner or other component is required, demonstration of no potential threat to human health or environment will be submitted. Such a demonstration will be professionally certified and notification that the demonstration has been placed in the operating record and on the publicly accessible internet site shall be provided to the State Director.

2.5 Amendment of Post-Closure Plan

Amendments to this plan will be made whenever there is a change in operation that would substantially affect this plan or unanticipated events after post-closure activities commence that necessitate a revision of this plan.

This plan will be amended at least 60 days prior to a planned change in operation or at least 30 days after an unanticipated event requires the need to revise the plan.

2.6 Post-Closure Care Completion Certification

Written certification will be obtained from a professional engineer that the initial and any amendment(s) of this written post-closure plan meet the requirements of current CCR regulations.

2.7 Record Keeping, Notification and Internet Reporting

Record keeping, notification and internet requirements will be performed in accordance with current CCR regulations.

2.7.1 Record Keeping

The written post closure plan and any amendment of the plan will accompany the most recent closure plan in the facility operating record, irrespective of the time requirements in the current CCR regulations. Notification verifying that post closure care has been completed will be placed in the facility operating record.

2.7.2 Notification

Notification verifying that the post-closure care has been completed will be prepared no later than 60 days following the post-closure care completion. This notification will include professional engineer certification.

The State Director shall be notified when information has been placed in the operating record and on the publicly accessible internet site. Notifications will be provided of the availability of the written post-closure plan and any amendment of the plan, as well as the completion of the post closure care.

2.7.3 Publicly Accessible Internet Site Requirements

The written post closure plan and any amendment of the plan, as well as the notification of completion of post-closure care will be placed on the publicly accessible internet site.

ATTACHMENT 1

CONSTRUCTION DRAWINGS

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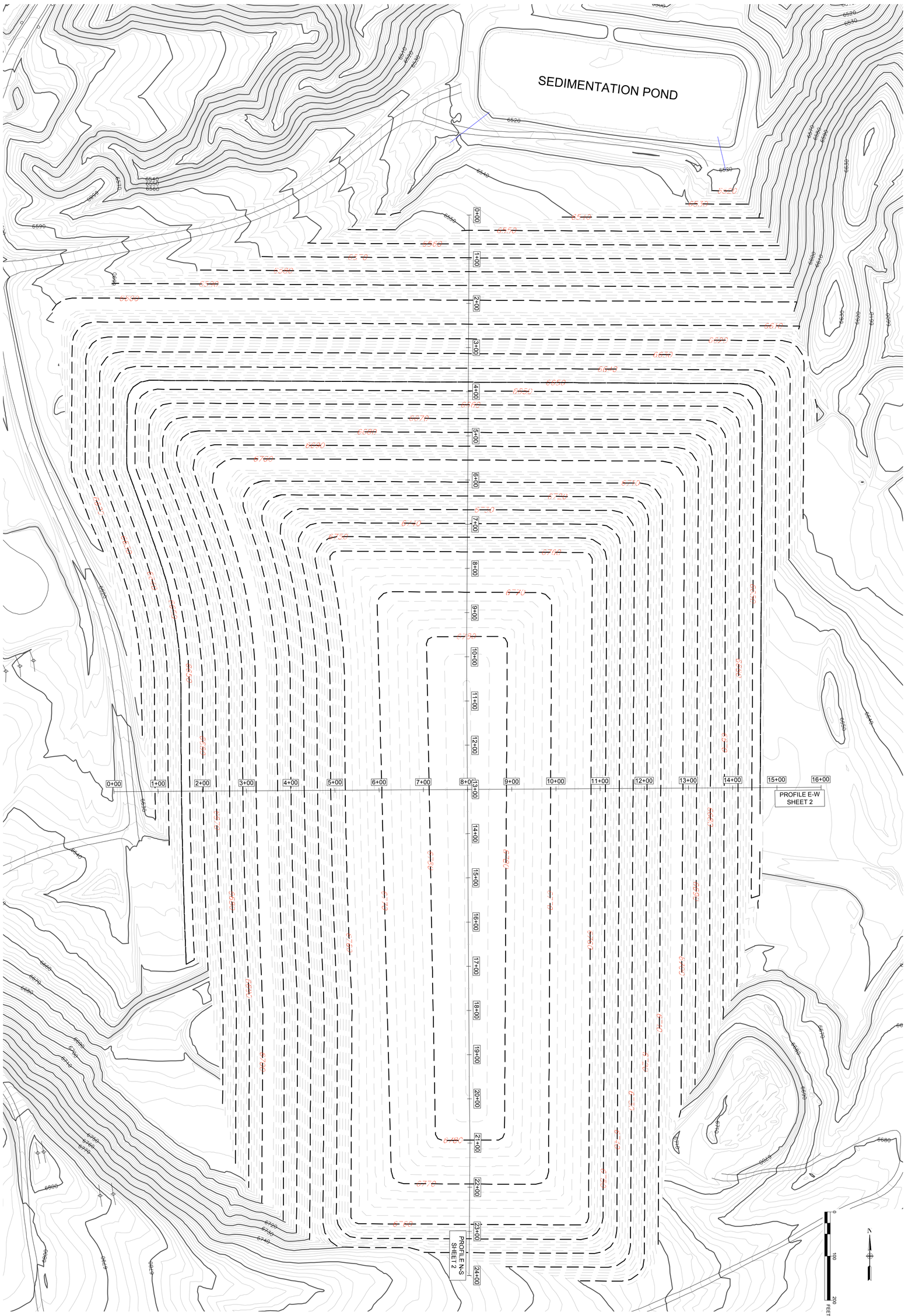

SHEET 1

JOB NO: PERCM70
DATE: 4/19/16
DRAWN BY: SS
CHECKED BY: SA

HUNTINGTON CCR DISPOSAL LANDFILL
FINAL SITE PLAN

PROJECT NAME: HUNTINGTON CCR CLOSURE PLAN
LOCATION: HUNTINGTON, UTAH
FILE NO. SC_GP01_Landfill FG.dwg

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480 E. Park Street
Butte, MT 59701
(406) 782-5220
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PROFILE N-S
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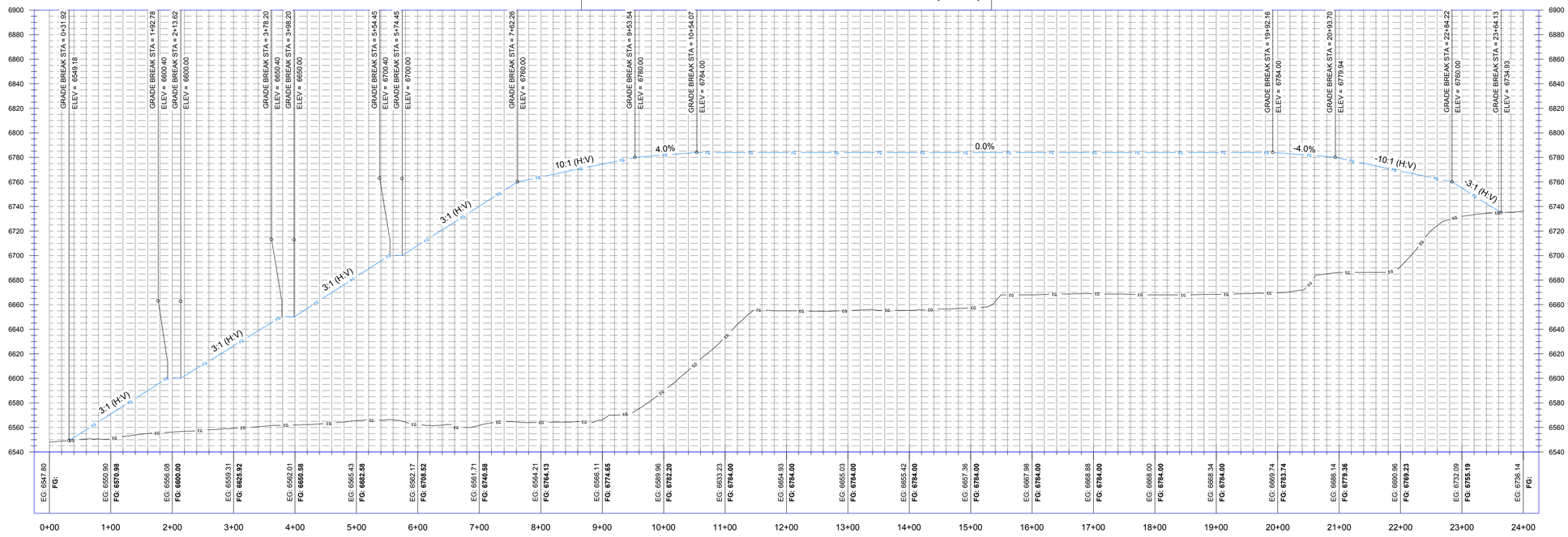
→ SOUTH



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Profile E-W
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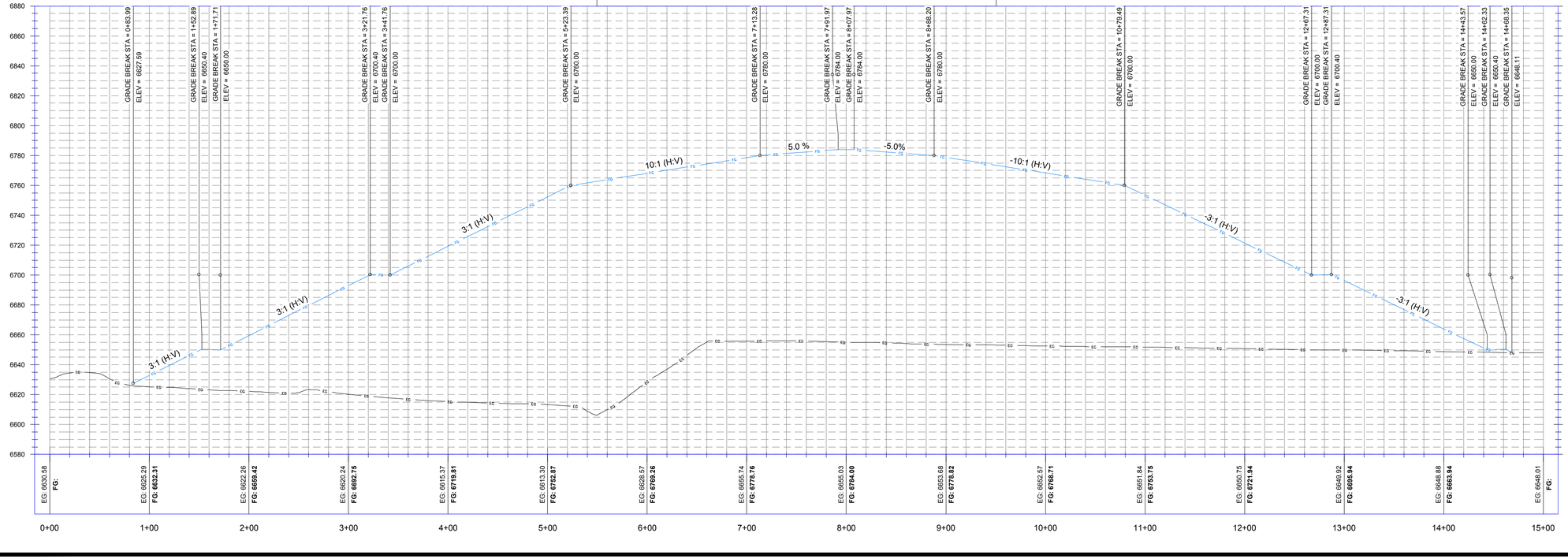
→ EAST



HORIZONTAL SCALE:

0 60 120 FEET

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HUNTINGTON CCR DISPOSAL LANDFILL
TYPICAL PROFILES

PROJECT NAME: HUNTINGTON CCR CLOSURE PLAN
LOCATION: HUNTINGTON, UTAH
FILE NO.: SC_GP01_Landfill FG.dwg

JOB NO:	PERCM70
DATE:	4/19/16
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SHEET
2

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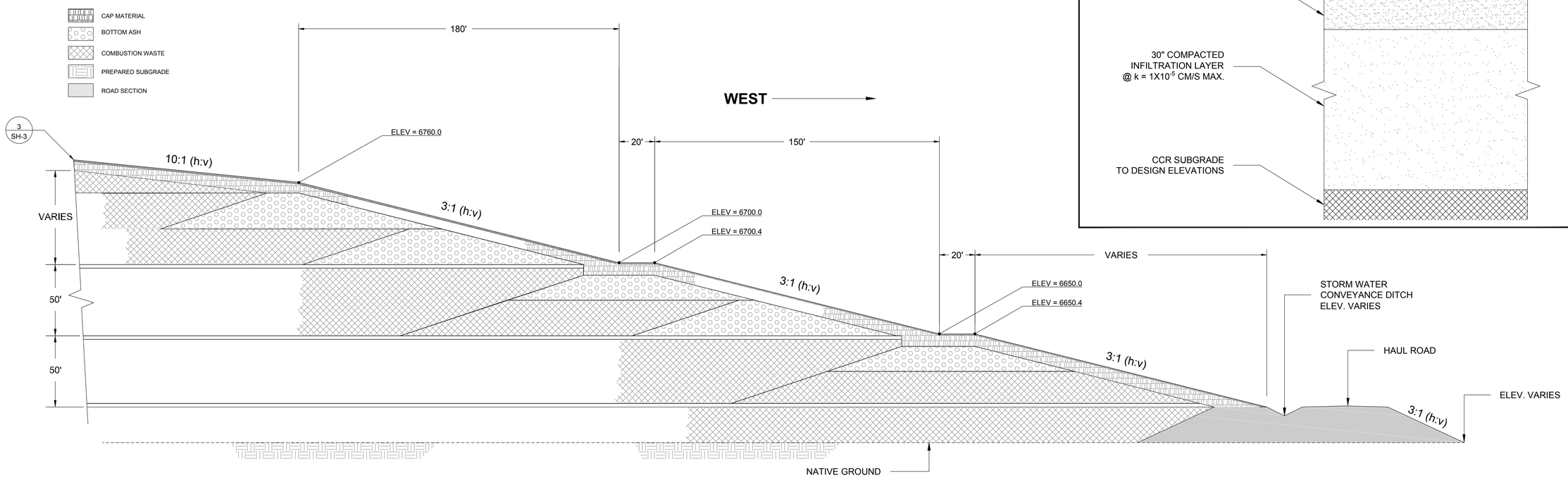
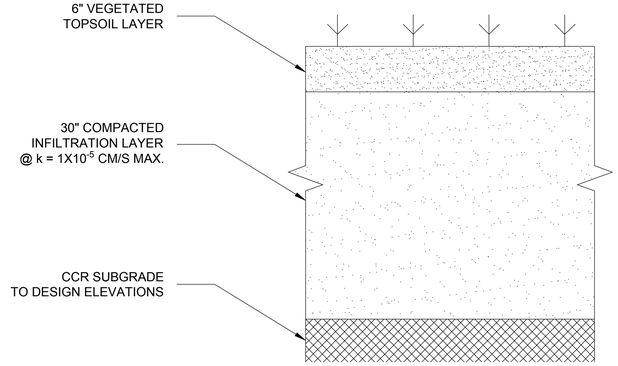
1 TYPICAL FILL PLAN W/ HAUL ROAD - SECTION VIEW

Scale: NTS



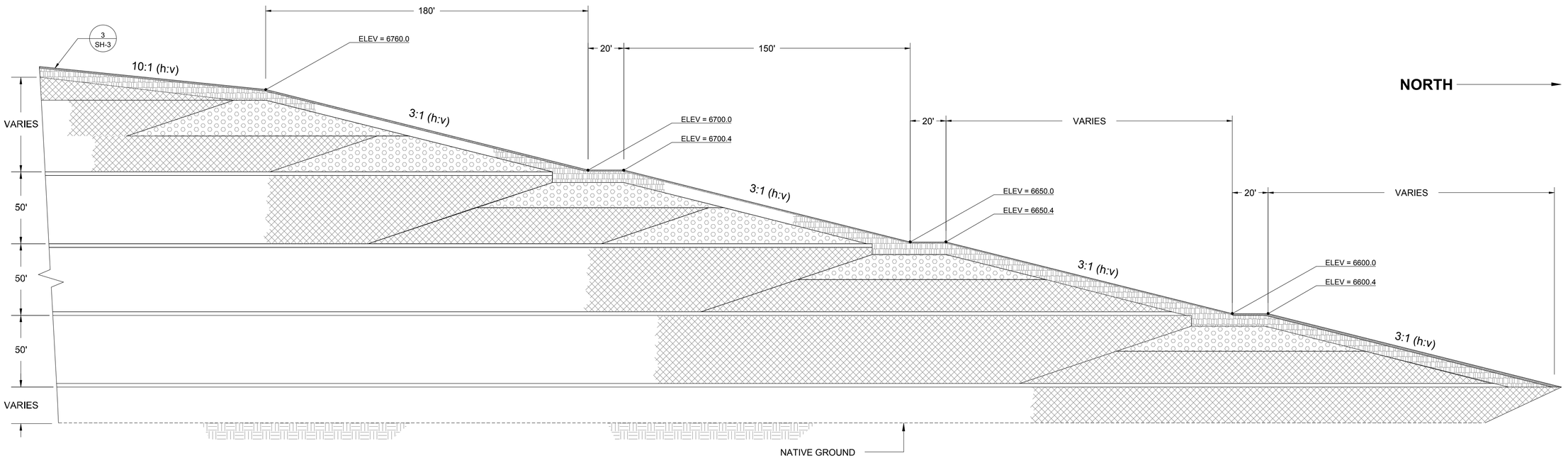
3 VEGETATED CAP DETAIL - SECTION VIEW

Scale: NTS



2 TYPICAL FILL PLAN NORTH FACE - SECTION VIEW

Scale: NTS



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HUNTINGTON CCR DISPOSAL LANDFILL
TYPICAL SECTIONS

PROJECT NAME: HUNTINGTON CCR CLOSURE PLAN
LOCATION: HUNTINGTON, UTAH
FILE NO.: SC_GP01_Landfill FG.dwg

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SHEET
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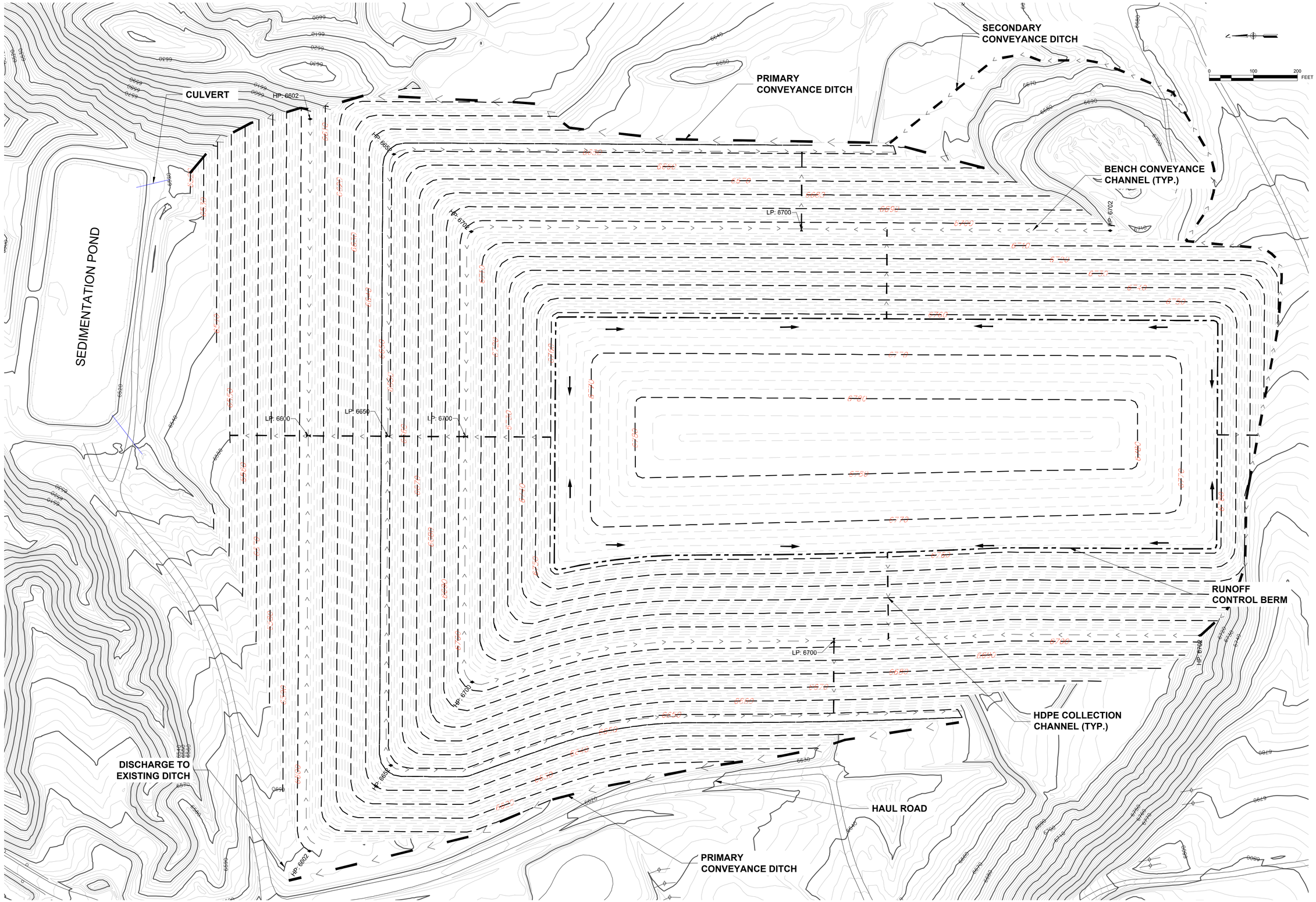

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(406) 782-5220
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HUNTINGTON CCR DISPOSAL LANDFILL
RUNOFF MANAGEMENT PLAN

PROJECT NAME: HUNTINGTON CCR CLOSURE PLAN
LOCATION: HUNTINGTON, UTAH
FILE NO.: SC_GP01_Landfill FG.dwg

JOB NO:	PERCM70
DATE:	4/19/16
DRAFTER:	BS
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SHEET
4

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