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#21

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Robert L. Morgan
State Engineer

1636 West North Tempie, Suite 220
Salt Lake City, UT 84116-3156
801-538-7240
801-538-7467 (Fax)

October 17, 1995

ACT/015/019 #2
Copy Bill Malencik

RE: Stream Channel Alteration No. 95-93-13SA
Rock Canyon Creek
PacifiCorp - Hunter Plant

Attached is a copy of Application to Alter a Natural Stream No. 95-93-13SA. Your comments are requested so we can evaluate any impacts caused by the project.

We are requesting that all comments be returned to me at our office prior to **November 6, 1995.** If we do not receive comments by that date, we will assume you have no input on the proposal outlined in the application.

If you have any questions or comments, feel free to contact Greg Mladenka at 538-7375.

Sincerely,

Judy Mattson

for Greg Mladenka
Stream Alteration Specialist

GCM/jm

pc: Bob Mairley - EPA
Mike Schwin - Corps of Engineers
Field Supervisor - U. S. Fish & Wildlife
Mark Page - Regional Engineer
Bill Bates - Regional Wildlife Habitat Manager
Bill Bradwisch - Aquatic Habitat Coordinator
Mike Reichert - Department of Environmental Quality, Water Quality Div.
Scott Flandro - State Lands & Forestry
Carolyn Wright - State Planning & Coordinator's Office
Terry Green - State Parks & Recreation
Jim Dykman - State Office of Historic Preservation
W. D. Robinson - Department of Agriculture, Env. Quality Section
Nancy Barr - Comprehensive Emergency Management

UTAH CENTENNIAL 1896-1996

RECEIVED
OCT 12 1995
WATER RIGHTS
SALT LAKE

JOINT PERMIT APPLICATION FO

U. S. ARMY CORPS OF ENGINEERS - FOR SECTIONS 404 AND
UTAH STATE ENGINEER'S OFFICE - FOR NATURAL STREAM CHANN

Application Number _____ / 93-Area 95-93-13
(Assigned by:) Corps State Engineer

Applicant's Name (Last, First M.I.)	Authorized Agent	Telephone Number and Area Code
PacifiCorp - Hunter Plant	Gary Slanina	(801) 748-6214

Applicant's Address (Street, RFD, Box Number, City, State, Zip)

P. O. Box 569, Castle Dale, UT 84513

PROJECT LOCATION

Quarter Section(s)	Section	Township	Range	Base & Meridian
SE 1/4	16	T19S	R8E	Salt Lake

County	Watercourse to be altered	Check one: ___Within city limits _X_ Outside city limits
Emery	Rock Canyon Creek	List town or nearest town: Castle Dale

Project location or address:

PacifiCorp - Hunter Plant

Brief description of project:

Realignment of the Hunter Plant Ash Haul Road.
Three new 90" diameter culverts in Rock Canyon Creek with embankment over culverts and tie into the existing ash haul road.

Purpose (justification) of project:

The purpose of the project is to eliminate a horseshoe turn and narrow crossing across Rock Canyon Creek.

Is this a single and complete project or is it part of a larger project, continuing project, or other related activities? If so, please describe the larger project or other related activities.

Single complete project.

If project includes the discharge of dredged or fill material:

N/A

Cubic yards of material:

Acreage or square footage of waters of the United States, including wetlands, affected by the project:

Source and type of fill material:

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ays to accomplish the project purpose):

Names and addresses of adjacent property owners or other individuals who may be affected by this project:

No others affected, project entirely on Hunter Plant property.

List other authorizations required by Federal, state or local governments (i.e.; National Flood Insurance Program), and the status of those authorizations.

N/A

Estimated starting date of project	Estimated completion date
Ocotber 16, 1995	May 1996

(If project has already been partially or totally completed, indicate date of work. Indicate existing work on drawings).

Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or am acting as the duly authorized agent of the applicant.

Signature of applicant	Date
Gary Slanina	10/4/95

I hereby certify that _____ is acting as my agent for this project.

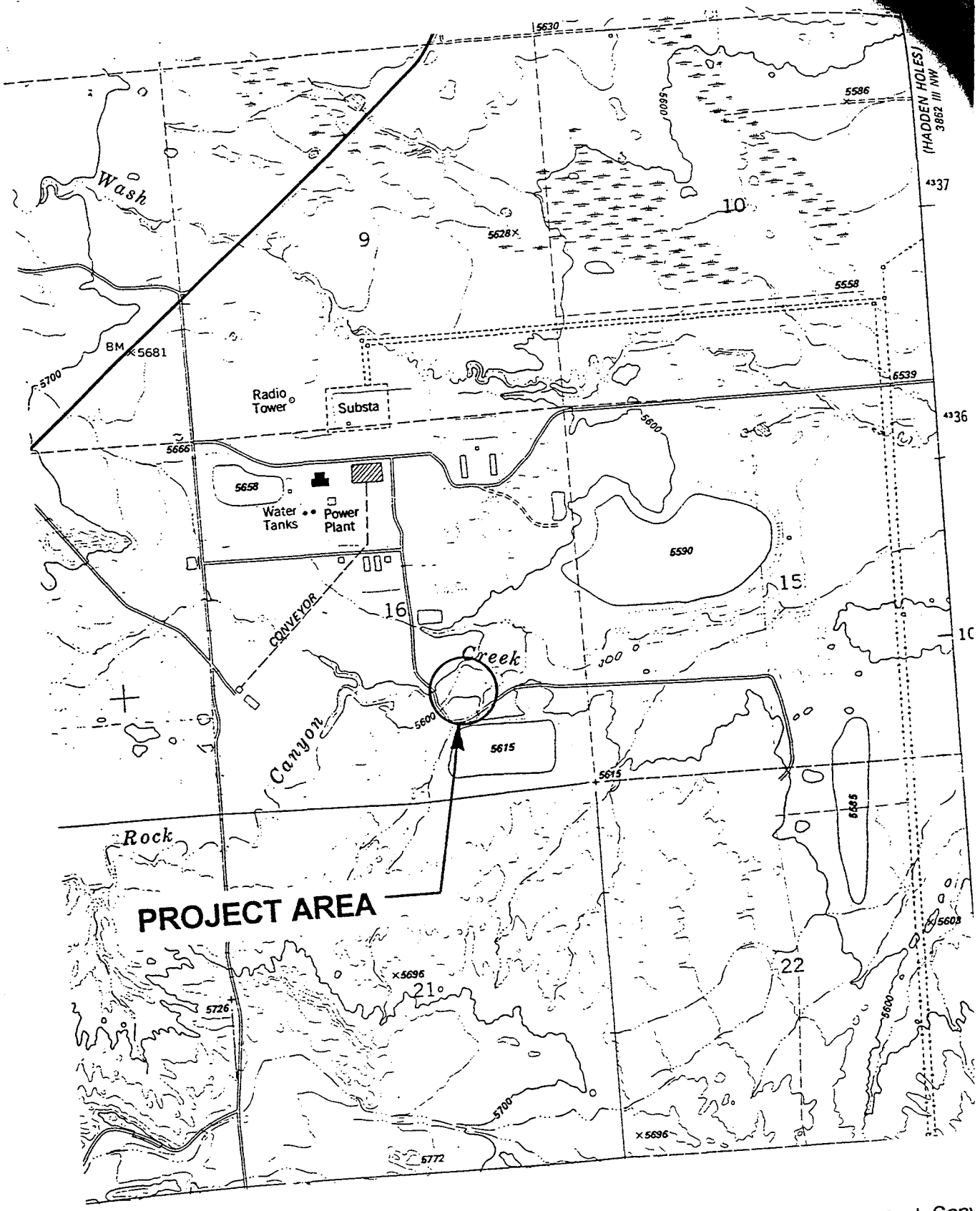
Agent's address and telephone number

INSTRUCTIONS

Applications which do not include the following will not be processed.

For a complete application, you **MUST** include the following on **8 1/2 by 11** paper (for large projects, multiple sheets with a key may be used). Clear, hand-drawn plans approximately to scale are acceptable.

1. An accurate location map (USGS quadrangle map preferred)
2. A plan view of the proposed activity (as seen from above) including dimensions of work.
3. A cross-section view of the proposed activity (may use typical cross-section for large projects) including dimensions.
4. For projects which include wetlands, an accurate wetland delineation must be prepared in accordance with the current method required by the Corps.



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If project
N/A

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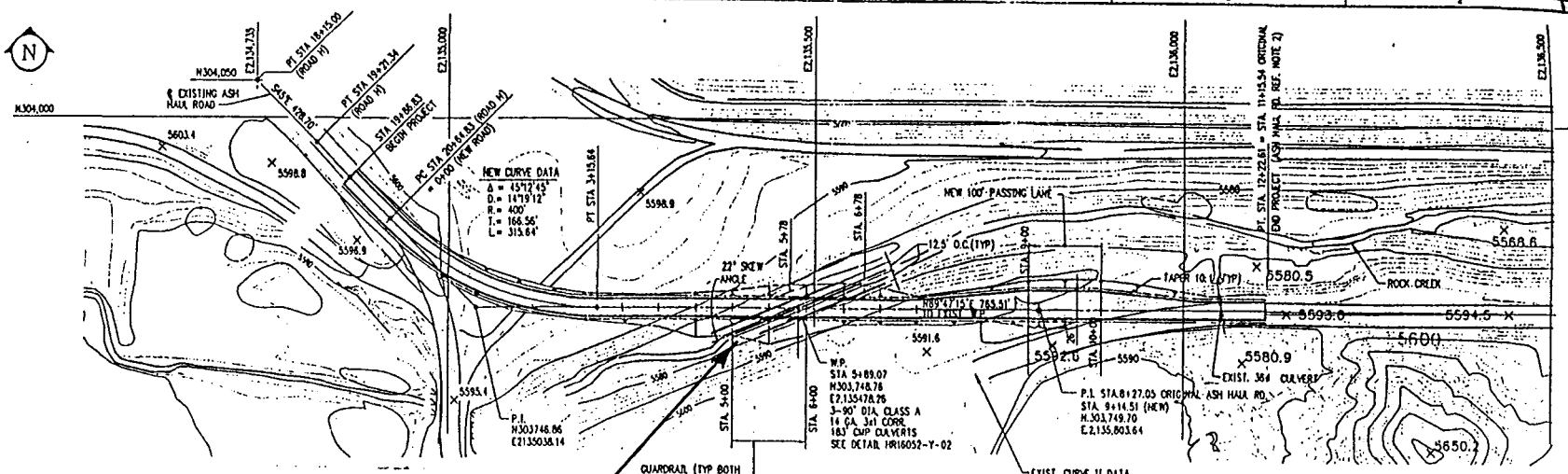
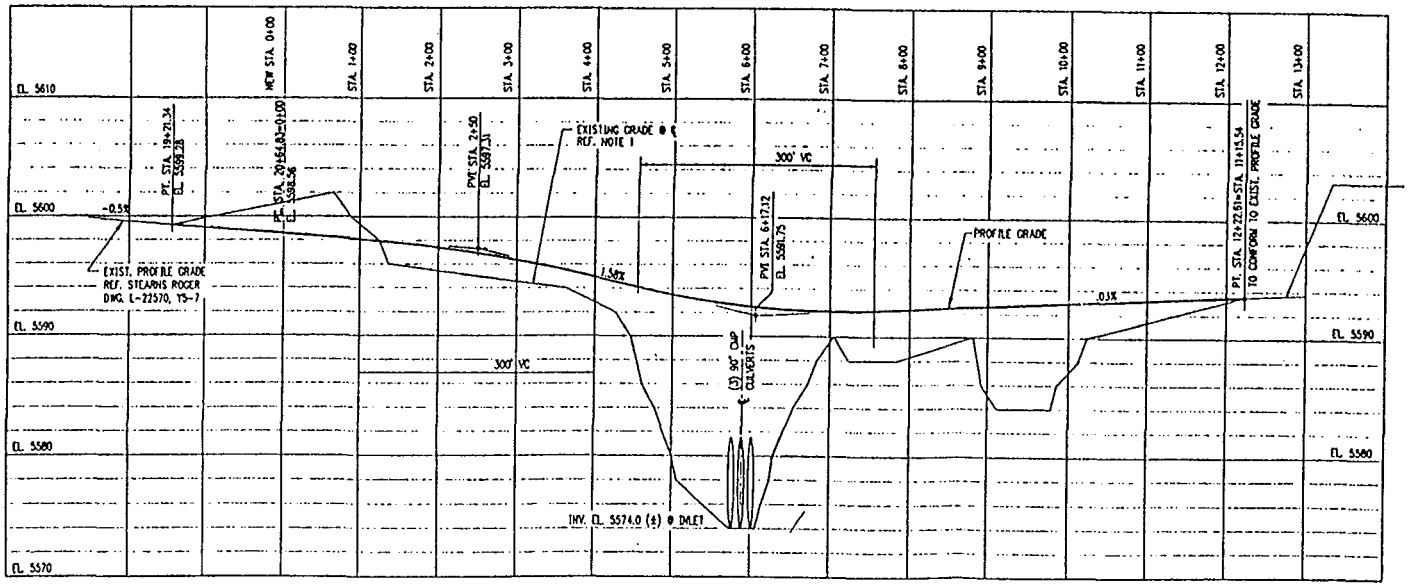
Ash Haul Road - Rock Cany
Crossing Project
PacifiCorp Hunter Plant
Applicant: Gary Slanina
Sheet No.: 1
Section 16, T19S, R8E, SL
Date: Oct. 2, 1995

PROJECT LOCATION



ROCK CANYON CREEK NEW CROSSING

NEW ASH HAUL ROAD ADDITION-AREA PLAN



NEW ASH HAUL ROAD ADDITION-PROFILE

NOTES:

1. EXIST. TOPOGRAPHY BASED ON AERO-GRAPHICS MAPPING DATED JUNE 14, 1995, WITH 2 FOOT VERTICAL CONTOUR INTERVAL.
2. ORIGINAL STATIONING IS SHOWN ON STEARNS ROGER DWG. L22570, SHT. YS-8

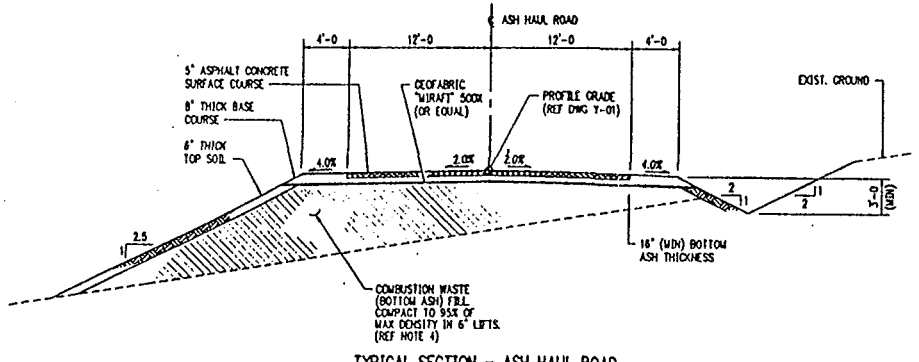
Ash Haul Road - Rock Canyon Creek Crossing Project
PacifiCorp Hunter Plant
Applicant: Gary Slanina
Sheet No.: 2
Section 16, T19S, R8E, SLB&M
Date: Oct. 2, 1995

No.	DATE	REVISION	BY	CHK	APP	No.	DATE	REVISION	BY	CHK	APP	No.	DATE	REVISION
A	1/26/95	ISSUED FOR PLANT REVIEW												

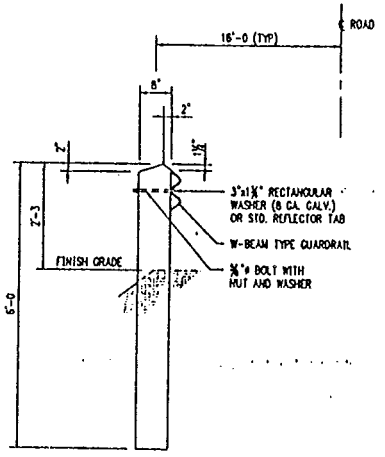
PLOT SCALE: 1 = 160

REFERENCE DRAWING No.

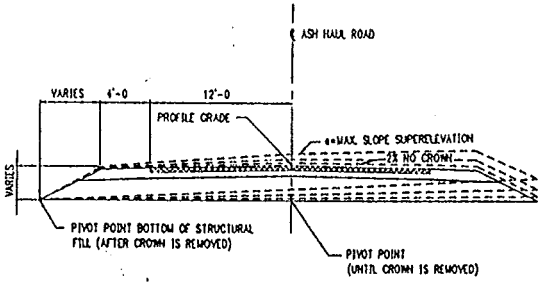
#24



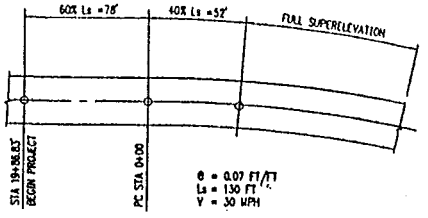
TYPICAL SECTION - ASH HAUL ROAD
NTS



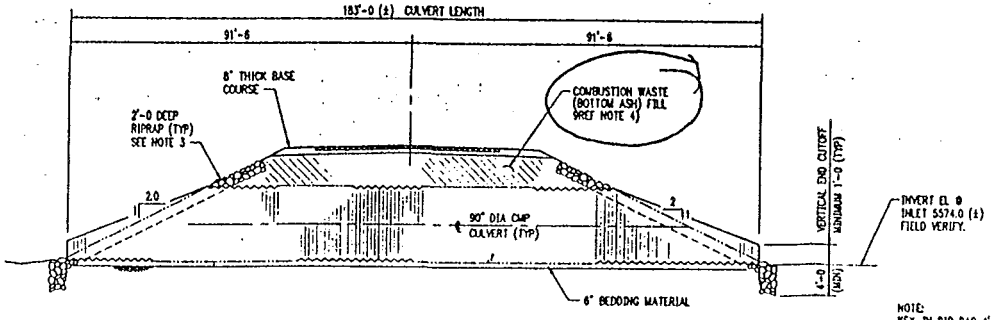
DETAIL-TYPICAL GUARDPOST
NTS



TYPICAL SECTION - SUPERELEVATION
NTS



SUPERELEVATION OF CURVE
NTS



TYPICAL SECTION NORMAL TO CULVERTS
NTS

NOTE:
KEY-IN RIP RAP 4'-0 (MIN) BELOW NORMAL CREEK BED (TYP)

GUIDELINE CONSTRUCTION AND MATERIALS REQUIREMENTS FOR PAVEMENT SECTIONS

1. MINIMUM COMPACTION REQUIREMENTS

MATERIAL	PERCENT OF MAXIMUM DENSITY	METHOD
ASPHALT CONCRETE SURFACING	97 OR 92	ASTM D 1559 (Marshall)* ASTM D 2041
CRUSHED GRANULAR BASE COURSE	95	ASTM-D-1557

* 75 BLOWS EA END OF SPECIMEN; SAMPLED FROM TRUCK AT TIME OF PRODUCTION.

MAXIMUM COMPACTED LIFT THICKNESS SHOULD BE 3 INCHES FOR ASPHALT CONCRETE AND 6 INCHES FOR GRANULAR BASE COURSE.

2. AGGREGATE BASE COURSE GRADING REQUIREMENTS

SCREEN OR SIEVE SIZE	3/4"	1"	1/2"
1½"			100
1"		100	
3/4"	100		81-91
3/8"	78-92	79-91	67-77
No 4	55-67	49-61	43-53
No 16	28-38	27-35	23-29
No 200	7-11	7-11	8-10

IN ADDITION TO THE GRADING SPECIFICATIONS SHOWN, AGGREGATE QUALITY SHOULD CONFORM TO THE UTAH DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS PARAGRAPH 301.02.

3. ASPHALT CONCRETE AGGREGATE GRADING REQUIREMENTS

SCREEN OR SIEVE SIZE	1"	3/4"	1/2"
1"	100		
3/4"		100	
1/2"	75-91		100
3/8"		75-91	
No 4	47-61	46-62	60-80
No 16	23-33	22-34	28-42
No 50	12-22	11-23	11-23
No 200	5-9	5-9	5-9

IN ADDITION TO THE GRADING SPECIFICATIONS SHOWN, AGGREGATE QUALITY SHOULD CONFORM TO THE APPLICABLE PORTIONS OF UTAH DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 402.03 AND 402.04.

4. ASPHALT CONCRETE MIX DESIGNS SHOULD BE SUBMITTED BY THE CONTRACTOR, AND SHOULD MEET THE FOLLOWING REQUIREMENTS.

PROPERTY	TEST METHOD	ASPHALT CONCRETE SURFACING
STABILITY, POUNDS, MINIMUM	ASTM D 1559*	1,000
FLOW, UNITS OF 0.01 INCHES	ASTM D 1559*	8-18
AIR VOIDS, PERCENT	ASPHALT INSTITUTE (MANUAL MS-2)	3-5
VOIDS IN MINERAL AGGREGATE (VMA) PERCENT MINIMUM		14
IMMERSION COMPRESSION: DRY COMPRESSIVE STRENGTH PSI, MINIMUM	ASTM D 1075	200
RETAINED STRENGTH, PERCENT		70

* 75 BLOWS EA END OF SPECIMEN.

GENERAL NOTES:

1. FOR PLAN AND PROFILE OF NEW ASH HAUL ROAD ADDITION SEE DWG HR16052-Y-01.
2. 90" CMP TO HAVE 3"x 1" CORRUGATIONS. PIPE SHALL BE 14 GAUGE, CLASS A, GALVANIZED AND BITUMINOUS COATED.
3. AS AN ALTERNATE TO RIPRAP ON SIDE SLOPES THE CONTRACTOR MAY USE AN 8" CONCRETE BLANKET AND AN 8" CONCRETE CUTOFF WALL ACROSS CULVERT ENDS EXTENDING A MINIMUM OF 4'-0 BELOW INVERTS IN PLACE OF TOE-IN OF RIPRAP.
4. STRUCTURAL FILL GRANULAR (SFG) WILL BE USED BETWEEN STA 4+00 AND STA 7+00 WITH A MINIMUM SLOPE OF 2:1. COMBUSTION WASTE (BOTTOM ASH) WILL BE USED IN ALL OTHER AREAS WITH A MINIMUM SLOPE OF 2.5:1.

Ash Haul Road - Rock Canyon Creek Crossing Project
PacifiCorp Hunter Plant
Applicant: Gary Slanina
Sheet No.: 3
Section 16, T19S, R8E, SLB&M
Date: Oct 2 1995

REFERENCE DRAWINGS | DRAWING No. | REFERENCE DRAWINGS | DRAWING No. | CHK | APP | BY | REVISION | DATE | No. | CHK | APP | BY | REVISION | PLOT SCALE 1 = 40 | SHEET REVISION