

TRACKING FORM

I. KEY FEATURES OF PERMITTEE'S AMENDMENT APPLICATION

Permittee Savage Coal	Mine Name Savage Coal Terminal	Amendment # ACT/007/022-96A	Date Received 2-2-96 <i>Dan Gmy</i>
Proposal: Proposed Truck Dump / Conveyor			
Description: Construct a small, permanent truck dump facility			

II. AMENDMENT CLASSIFICATION

<input type="checkbox"/> Major Amendment	Public Notice Required	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Minor Amendment	Outside of Permit Area	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Outside of Disturbed Area	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

III. SUMMARY OF DOGM PROCESSING DATES

Reviews Completed	2/27/96	FOLLOWUP REQUIREMENTS	
Approved Effective	3/11/96	MRP "After Const" Documents	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Disapproved		TA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mailed	3/12/96	CHIA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Filed MRP		Responds Within 15 days of Receipt? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain below <i>aj</i>	

IV. COORDINATED REVIEWS

EXTERNAL AGENCIES (Mine Specific) <small>(Adverse Comments, if Any, Include in Item V)</small>	DOGM REVIEWS/DISCIPLINES			
OSM	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	Generalists	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
BLM	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	INTERDISCIPLINARY APPROACH	
US Forest Service	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Administrative	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
US Fish & Wildlife	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Biology	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
US National Parks	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Engineering	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
UT Environmental Quality	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Geology	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
UT Wildlife Resources	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Hydrology	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
UT State History	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Soils	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
UT Water Rights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Permitting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
UT SITLA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A	- Other	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Other <i>County Bldg Dept</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> N/A		

V. FOOTNOTES/ADDITIONAL EXPLANATION AS NECESSARY

aj Reasons for delay in processing
 ■ deficiency conveyed not covered - rectified by permittee letter
 of 2/12/96
 ■ project approval by Carbon County Bldg dept still
 pending as of 2/27/96

**Delegated Responsibilities I & III: Secretary - II, IV & V: Inspector

A Building permit approved 3/6/96 and received 3/8/96.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

March 11, 1996

Boyd Rhodes
Savage Industries Inc
PO Box 587
Wellington, Utah 84542

RE: Permanent Truck Dump and Stacking Conveyor, Savage Coal Terminal, Savage Industries, Inc., ACT/007/022-96A, Folder #3, Carbon County, Utah

Dear Mr. Rhodes:

This approves ACT/007/022-96A for installing a permanent truck dump and stacking conveyor at your coal preparation plant.

The amendment is approved effective March 11, 1996. Approval of the amendment is subject to the permittee covering the conveyor for environmental and other reasons. Please refer to findings #2 herein. The approval is based on your application and findings cited below.

Followup Action By Permittee

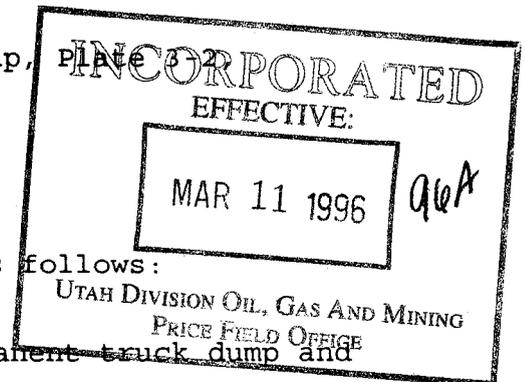
Since the project involves on the ground installation, please submit within 30 days after construction the following:

- Certified updated Surface Facilities Map, Plate 3-2 (R645-301-521.164)

Project Description

The key features of this amendment are as follows:

- (1) Includes the installation of a permanent truck dump and stacking conveyor.
- (2) Extending 24" culvert C-21 and eliminating 12" culvert C-11.



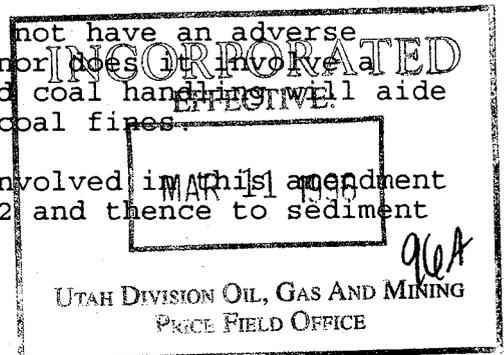
Analysis

This project, from both environmental and an operational standpoint, will improve the coal dumping, conveyance, and coal storage. It will reduce the use of heavy equipment to move and load coal.

Findings

- (1) AMENDMENT APPLICATION. The applicant, Savage Industries, Inc., has submitted a complete and accurate amendment application in conformance with the coal rules (R645-301-150).
- (2) Commitment. The permittee in his letter of 2/12/96 committed to cover the conveyor system. It is attached to and included as a part of the approved amendment.
- (3) DOGM PERMIT STATUS. The permanent truck dump and stacking conveyor areas lie within the current permit area.
- (4) ACTIVE MINE. The area is included in an active approved coal mining and reclamation operation and is within the disturbed area.
- (5) LAND STATUS. The surface estate is patented and controlled by Savage Industries, Inc.
- (6) OTHER APPROVAL/COORDINATION. This amendment has been coordinated with other responsible agencies. Carbon County has approved a building permit. The design documents submitted with the building permit are included herein as part and parcel of the approved amendment. (R645-301-526.220). The documents carry the stamp of a licensed certified structural engineer.
- (7) IMPACTS. The instant project does not have an adverse impact on the hydrologic balance, nor does it involve a critical habitat area. The amended coal handling will aide in minimizing the air movement of coal fines.

The runoff from the project area involved in this amendment flows into disturbed diversion CD-2 and thence to sediment pond #6.



Page 3
B. Rhodes/Savage
Permanent Truck Dump-96A
March 11, 1996

- (8) RECORD UPDATE. The current Technical Analysis does not discuss existing truck dump and coal conveyor; therefore, for this and other reasons the Technical Analysis does not need to be updated.
- (9) RECLAMATION AND BONDING. The existing reclamation plan and surety bonding are adequate as determined by the undersigned. (R645-301-820/830).

The current surety bond is \$2,728,178.00. This includes a 10% contingency. After approval, the remaining contingency is \$269,313.00.

The current reclamation plan on removing and reclaiming existing coal handling facilities is adequate. The operator estimates, and concurred by the undersigned, the demolition and material removal will cost about \$3505.00. The balance of the reclamation is currently covered in the existing reclamation plan and bond.

Sincerely,



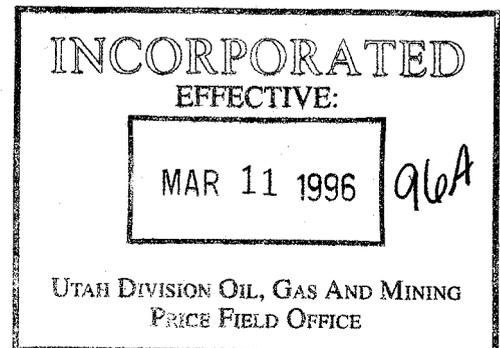
Wm. J. Malencik
Reclamation Specialist

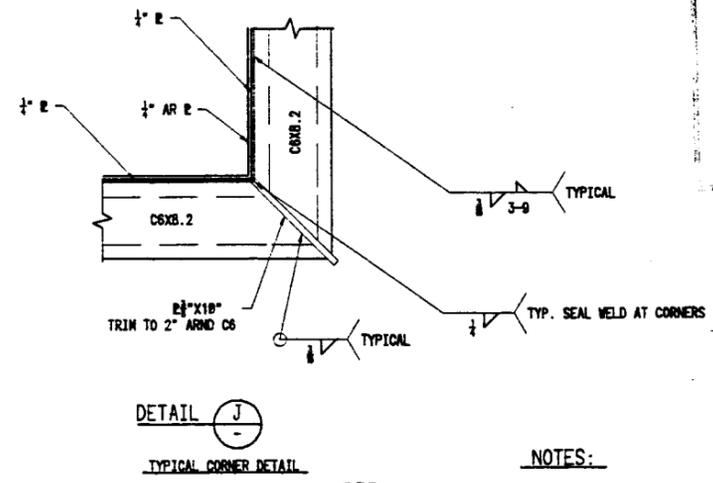
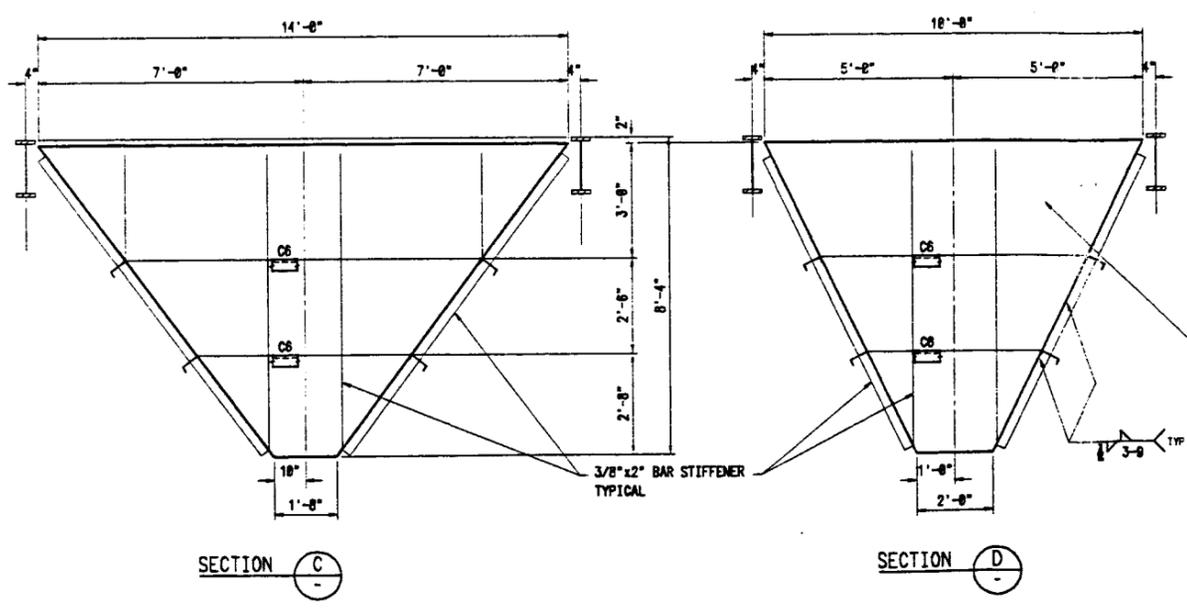
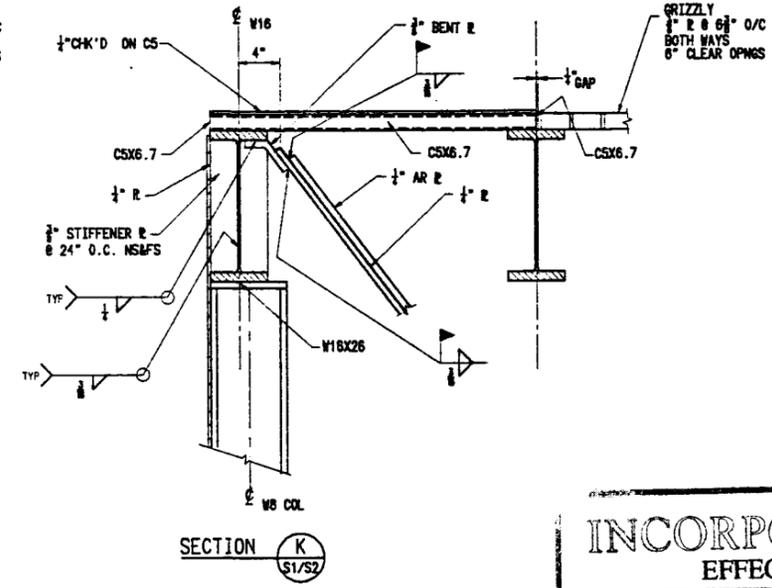
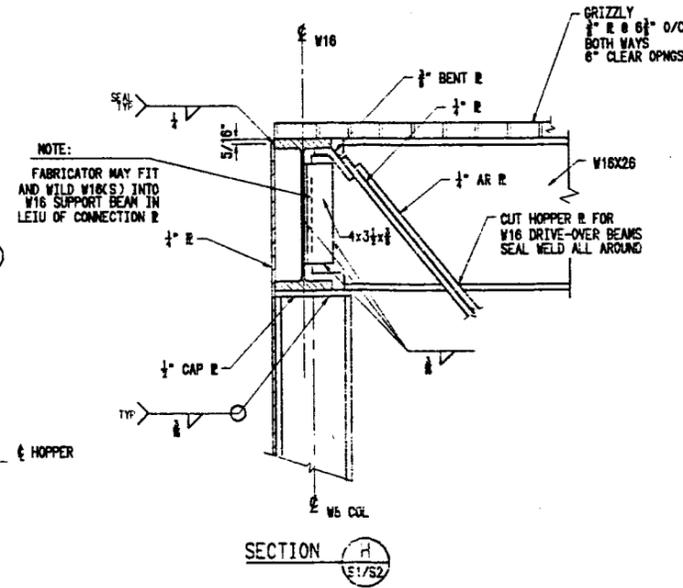
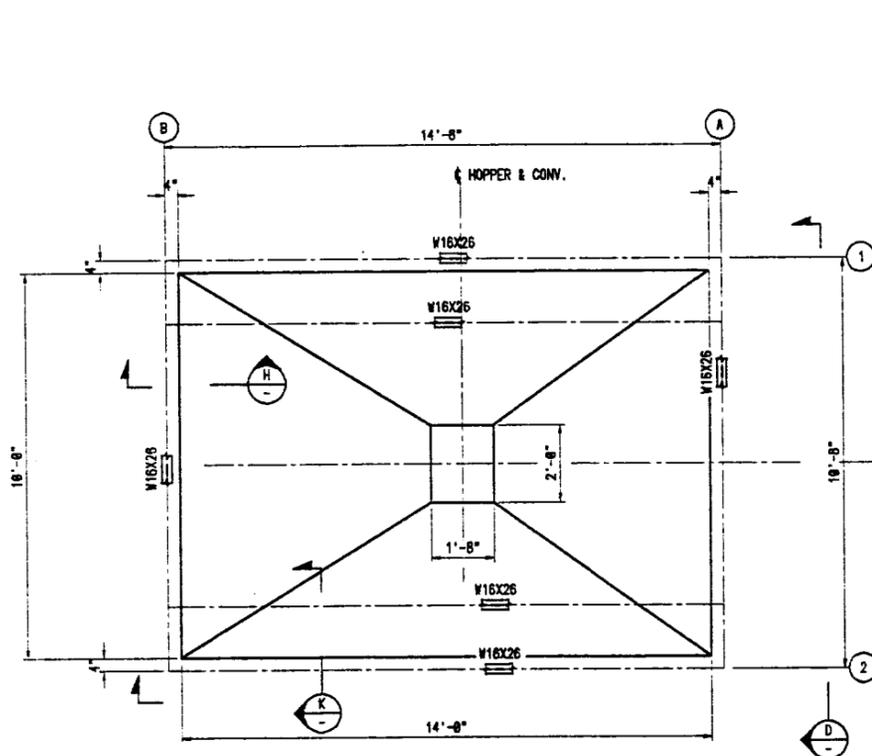
sd

Enclosures

MRP pages, 3-24, 3-24a, 7-88a
Appendix 3-1
Plates 3-2c, 3-2d, 3-2
Building Permit
Permittees Commitment Letter

cc: Ranvir Singh, OSM, Denver
Mark Page, State Eng, Price
Dave Ariotti, DEQ, Price
Bill Bates, DWR, Price
Paige Beville, ARCO, Denver
Joe Helfrich, DOGM, SLC
Pam Grubaugh-Littig, DOGM, SLC, w/o enc





NOTES:
 1. WORK THIS DRAWING WITH DRAWING S-2.
 2. SEE DRAWING S-3 FOR STEEL NOTES.

INCORPORATED
 EFFECTIVE:
 MAR 11 1996 *agA*
 UTAH DIVISION OIL, GAS AND MINING
 PRICE FIELD OFFICE

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NO.	DATE	REVISION	BY	APPROV
1	7-12-95	ISSUED FOR CONSTRUCTION	MLB	
2	2-8-96	ISSUED FOR REVIEW	MLB	

DESIGN	MLB
DRAWN	MLB
CHECK	OMK
APPROVED	

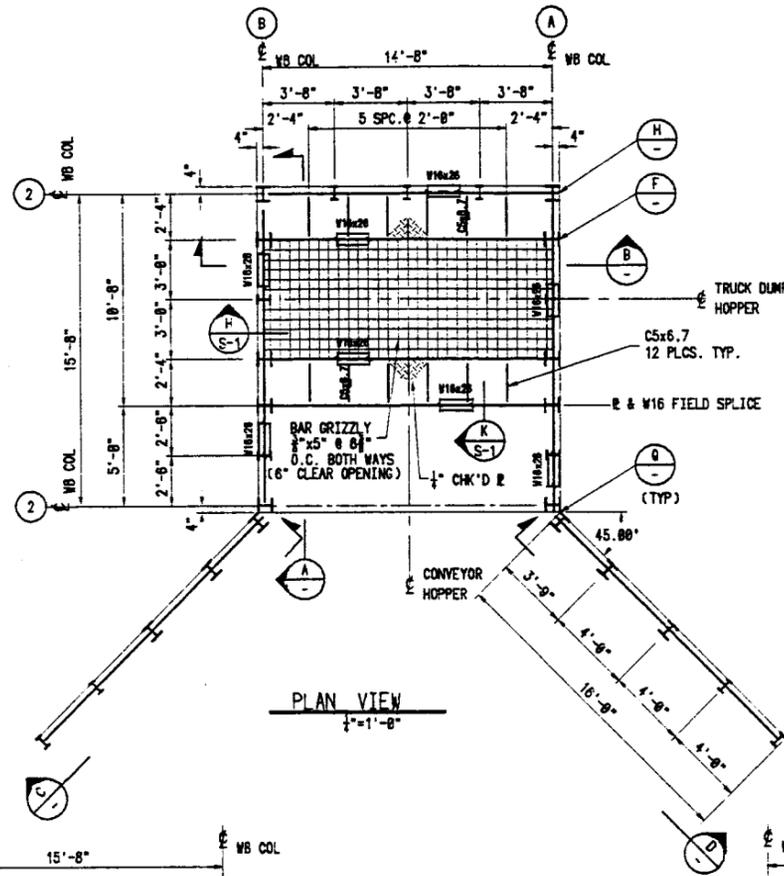
SAVAGE INDUSTRIES
 DRIVE-OVERTRUCK DUMP
 COAL TERMINAL PRICE, UTAH

RSM
 RSM ENGINEERING CONSULTANTS
 SALT LAKE CITY, UTAH
 (801) 226-3419

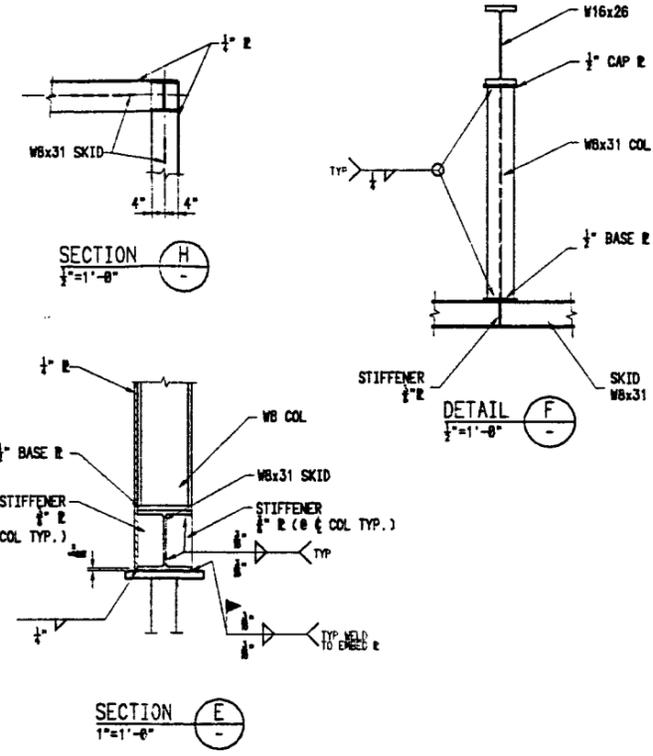
HOPPER DETAILS

DATE	2-8-96
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SCALE	1/4"=1'-0"
DWG NO.	S-1
REV.	0

DATE	2-8-96
R & M NO.	9600501
SCALE	1/4"=1'-0"
DWG NO.	S-1
REV.	0



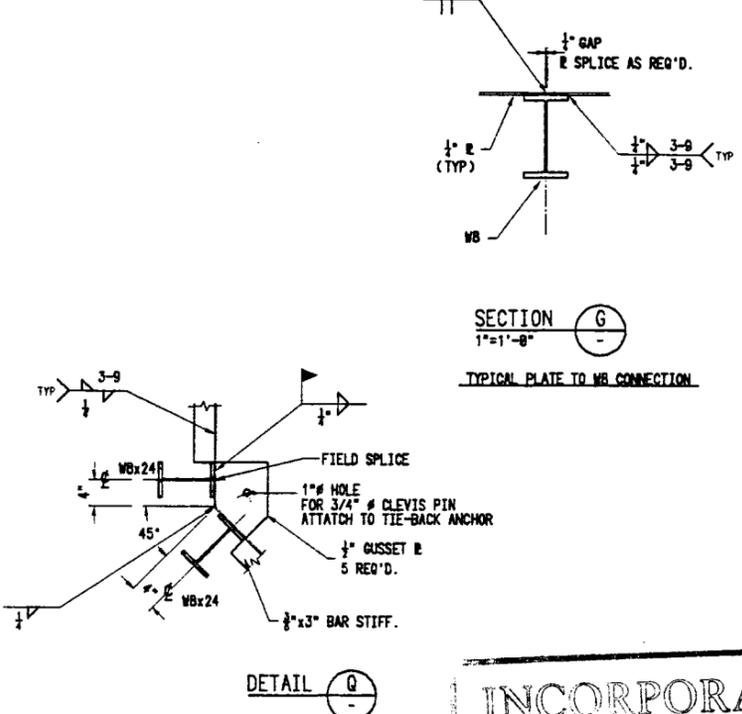
PLAN VIEW
1/2"=1'-0"



SECTION H
1/2"=1'-0"

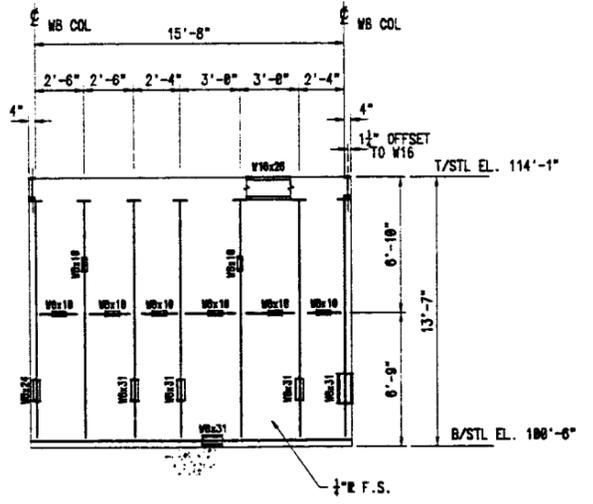
SECTION E
1/2"=1'-0"

DETAIL F
1/2"=1'-0"



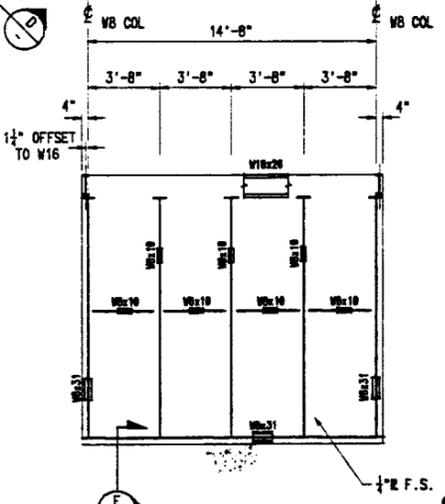
SECTION G
1/2"=1'-0"

DETAIL Q
1/2"=1'-0"

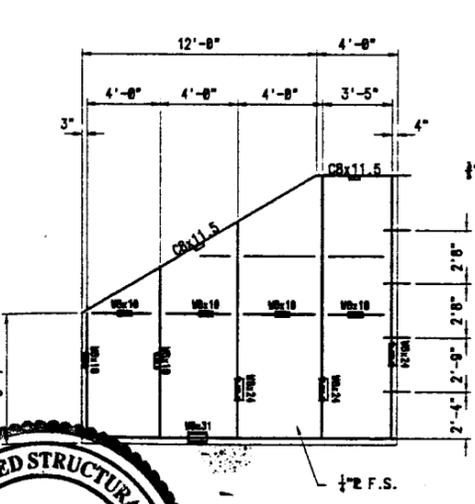


SECTION A
1/2"=1'-0"

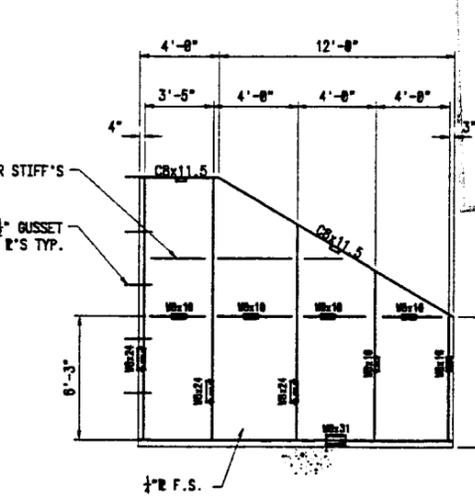
TYPICAL 2 PLACES



SECTION B
1/2"=1'-0"



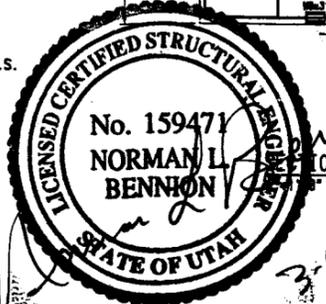
SECTION C
1/2"=1'-0"



SECTION D
1/2"=1'-0"

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MAR 11 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

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DIVISION OF OIL
GAS & MINING PRICE UTAH



NOTES:

1. WORK THIS DWG. W/ DWG.'S S-1 & S-3
2. FABRICATOR TO DETERMINE APPROPRIATE SHIPPING PIECES AND OBTAIN OWNER APPROVAL.
3. FIELD TO PROVIDE WALKWAY WITH HANDRAIL AND TOE PLATE PER CODE REQUIREMENTS.

NO.	DATE	REVISION	BY	APPROV.
1	2-12-96	ISSUED FOR CONSTRUCTION	MLB	
2	2-8-96	ISSUED FOR REVIEW	GMK	

DESIGN	GMK
DRAWN	GMK
CHECK	MLB
APPROVED	

SAVAGE INDUSTRIES
DRIVE OVER TRUCK DUMP
COAL TERMINAL PRICE, UTAH

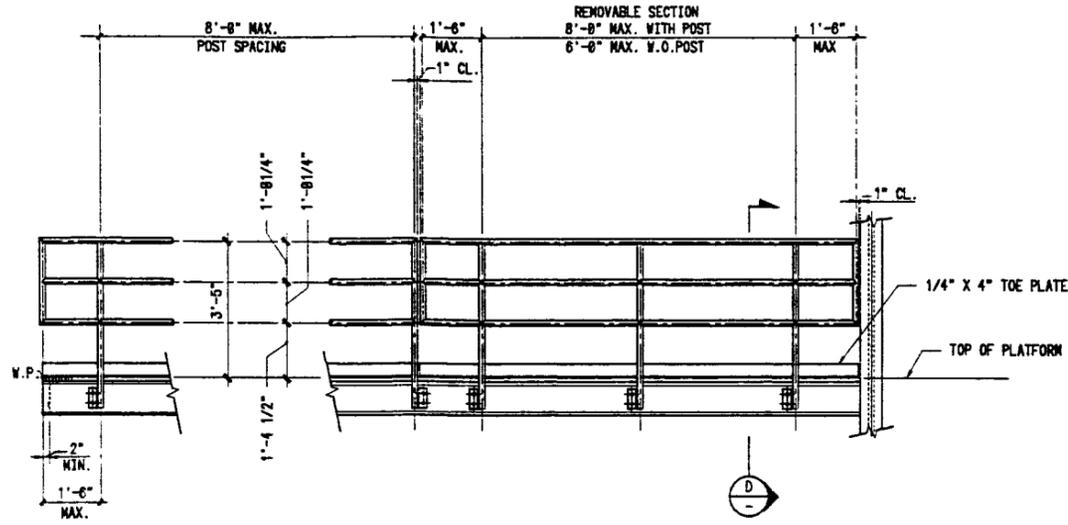
RISM
R & M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801) 263-3419

STEEL BULK HEAD AND WING WALLS
PLAN, ELEVATIONS,
SECTIONS & DETAILS

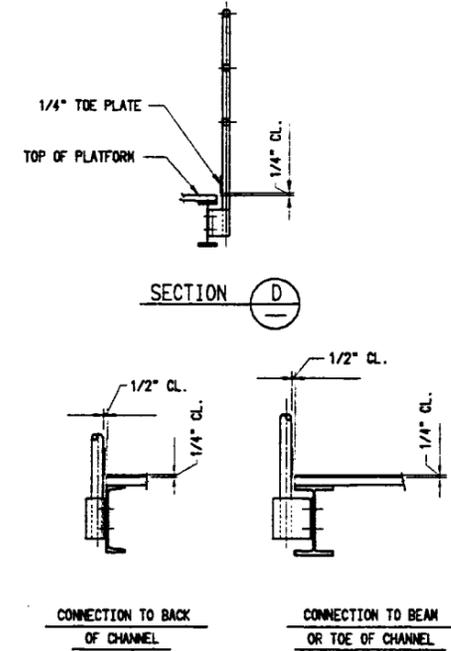
DATE:	2-8-96
R & M NO.:	0680
SCALE:	1/2"=1'-0"
DWG. NO.:	S-2
REV.:	0

GENERAL STEEL NOTES

- DESIGN, FABRICATION, MATERIAL, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," THE DESIGN DRAWINGS, AND THE SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING TO INSURE STABILITY OF STRUCTURES DURING ERECTION.
- STANDARD FRAMED CONNECTIONS SHALL BE PROVIDED FOR CONNECTING BEAMS TO BEAMS AND BEAMS TO COLUMNS UNLESS OTHERWISE SHOWN OR NOTED. THESE CONNECTIONS SHALL HAVE THE MAXIMUM ALLOWABLE ANGLE LENGTH FOR EACH MEMBER SPECIFIED, AS SHOWN IN TABLES 11A THROUGH 11C AND IN COMPLIANCE WITH TABLES 1A THROUGH 1G OF PART 4 OF THE AISC MANUAL OF STEEL CONSTRUCTION, OR EQUIVALENT WELDS. WHERE POSITION OF MEMBER PROHIBITS USE OF A STANDARD WEB CONNECTION, AN EQUIVALENT CONNECTION SHALL BE PROVIDED. BOLTED SHOP CONNECTIONS SHALL BE COMPLETELY ASSEMBLED IN THE SHOP.
- BOLTED CONNECTIONS SHALL BE BEARING TYPE UNLESS FRICTION TYPE IS SPECIFIED. THREADS SHALL BE INCLUDED IN THE SHEAR PLANE UNLESS OTHERWISE NOTED. BOLTS SHALL BE 3/4 INCH DIAMETER HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. HOLES SHALL BE 13/16 INCH DIAMETER UNLESS NOTED. LENGTH OF BOLTS SHALL BE SHOWN ON SHOP DRAWINGS. NO LESS THAN TWO BOLTS MAY BE USED IN ANY CONNECTION UNLESS NOTED.
- WELDED CONNECTIONS SHALL BE MADE WITH E-70XX ELECTRODES. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AMERICAN WELDING SOCIETY STANDARDS AS MODIFIED BY AISC SPECIFICATIONS.
- ALL FIELD WELDING MAY BE INSPECTED AT OWNERS EXPENSE BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE STRUCTURAL ENGINEER.
- ALL GUSSET PLATES TO BE 3/8 INCH MIN. THICKNESS UNLESS OTHERWISE NOTED.
- FLOOR PLATE WHERE SHOWN SHALL BE 1/4 INCH CHECKERED STEEL (UNLESS NOTED) AND SHALL CONFORM TO ASTM A-36. UNLESS OTHERWISE NOTED, FLOOR PLATE SHALL BE CONNECTED TO SUPPORTING MEMBERS BY WELDING WITH 3/16 INCH WELDS 2 INCHES LONG ON 24 INCH CENTERS.
- HANDRAIL AND MIDRAIL SHIPPED IN STANDARD LENGTHS AND SHOP FABRICATED HANDRAIL POSTS SHALL BE 1 1/4" SCHEDULE 40 ASTM A126 BLACK PIPE WITH SUPPORT POSTS AT 8' MAXIMUM CENTERS.
- ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING GROUT AND GROUTING OF STRUCTURAL STEEL AND MACHINERY BASE SUPPORTS. GROUT TO BE FIVE STA. NON METALLIC, NON SHRINK PRE-PACKED GROUT MANUFACTURED BY US GROUT OR ENG. APPROVED FILL IN EQUAL.
- FABRICATOR SHALL CLEARLY MARK ALL STRUCTURAL MEMBERS IN ACCORDANCE WITH THE ERECTION DRAWINGS. PIECE MARKS SHALL BE MADE USING A STENCIL.
- ALL ERECTION AND SHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- FOR STANDARD STAIR AND HANDRAIL DETAILS SEE DRAWING S-2. FOR STANDARD LADDER DETAILS SEE DRAWING S-3.



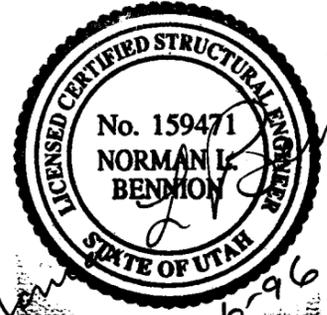
TYPICAL HANDRAIL ELEVATION



HANDRAIL DETAILS ARE FOR FIELD REFERENCE FOR FABRICATION OF HANDRAIL BY OTHERS

GENERAL PLATEWORK NOTES:

- ALL DIMENSIONS ARE TO INSIDE OF PLATE, UNLESS NOTED.
- CONTINUOUS WELDED CONSTRUCTION UNLESS NOTED.
- SIZE OF WELDS TO BE EQUAL TO THE THICKNESS OF THE SMALLER OF THE TWO PLATES BEING JOINED, UNLESS OTHERWISE INDICATED.
- ALL PLATE TO BE 1/4" ASTM A36 UNLESS NOTED ON DESIGN DRAWINGS.
- ALL BAR STIFFENERS TO BE 2"x3/8" UNLESS NOTED.
- ALL FLANGES TO BE 3/8" THICK BY 2-1/2" WIDE (MIN.) LOW CARBON STEEL UNLESS NOTED.
- ALL WELDING AND WELD DESIGN SHALL BE IN ACCORDANCE WITH *AMERICAN WELDING SOCIETY, AWS D1.1 STRUCTURAL WELDING CODE* (LATEST EDITION).
- PAINT SCHEDULE
ALL CARBON STEEL SHALL BE FURNISHED PAINTED WITH A SHOP APPLIED RED OXIDE RUST INHIBITOR EXCEPT AS NOTED. FABRICATOR SHALL PROVIDE A PROPOSAL AT TIME OF BID FOR A PAINTING SYSTEM CONSIDERING THE ENVIRONMENT. COATING SHALL BE APPLIED PER THE STRUCTURAL STEEL PAINTING COUNCIL (SSPC). USE AN EPOXY SYSTEM COMPATIBLE WITH THE PRIMER USED.



TYPICAL HANDRAIL POST CONNECTIONS

INCORPORATED
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MAR 11 1996

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

TYPICAL HANDRAIL CORNER

- NOTES:
- WORK THIS DRAWING WITH PROJECT STEEL NOTES
 - ALL TOP AND MIDRAILS TO BE 1-1/4" DIA. STD. PIPE.
 - ALL POSTS TO BE 1-1/2" DIA. STD. PIPE.
 - ALL HANDRAIL SURFACES SHALL BE GROUND SMOOTH.
 - FOR STRINGER SIZE, SEE PLAN DRAWINGS.

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MAR - 8 1996

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& MINING PRICE UTAH

NO.	DATE	ISSUED FOR REVIEW	REVISION	BY	APPROV
1	2-8-96	ISSUED FOR REVIEW		NLB	

DESIGN	GNK
DRAWN	NLB
CHECK	
APPROVED	

SAVAGE INDUSTRIES
TRUCK DUMP
COAL TERMINAL PRICE, UTAH

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SALT LAKE CITY, UTAH
(801) 263-3419

HANDRAIL STANDARD
STEEL & PLATEWORK NOTES

DATE	2-8-96
R & M NO.	9688
SCALE	3/8"=1'-0"
DWG. NO.	S-3
REV.	A

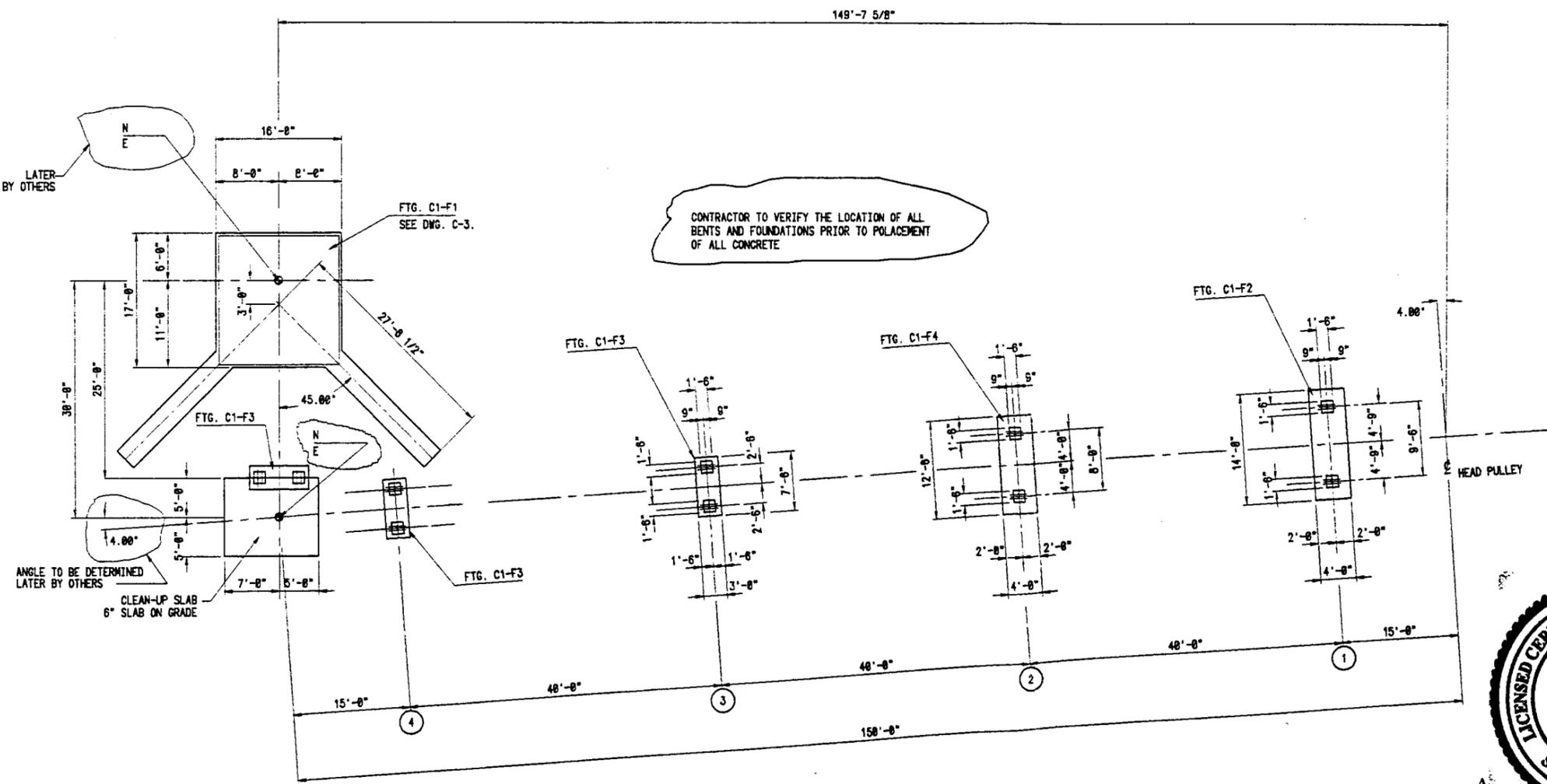


PLANT NORTH

ANCHOR BOLTS		SLEEVES		REMARKS				
MARK	QTY	TYPE	LENGTH		SIZE	LENGTH		
AB-1	20	MB	1'-6"	1/2"	5"	4"	48	

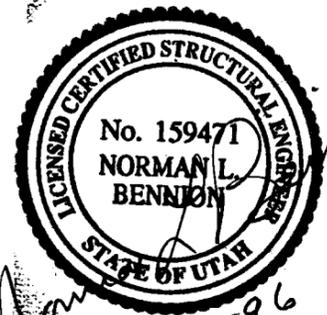
- NOTES:
- ANCHOR BOLTS TO BE CARBON STEEL AND SHALL CONFORM TO A.S.T.M. A-307 w/STD NUMBER THREADS, CLASS 2 FIT AND HWY HEX NUTS.
 - ALL SLEEVES TO BE WILSON MOLDEN ETHYLENE PLASTIC UNLESS NOTED.
 - TAG ALL ANCHOR BOLTS WITH MARK NUMBER AND DRAWING NUMBER.

- NOTES:
- SEE DRAWING C-3 FOR GENERAL CONCRETE NOTES
 - WORK THIS DRAWING WITH DRAWING C-2 FOUNDATION SCHEDULE ADM C-3 FOR SLAB DETAILS.
 - FOUNDATION DESIGN BASED ON 1,000 POUNDS PER SQUARE FOOT ALLOWABLE BEARING PRESSURE.



FOUNDATION PLOT PLAN

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DIVISION OF OIL
GAS & MINING PRICE UTAH

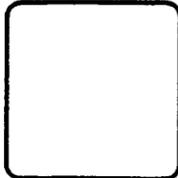
NO.	DATE	REVISION	BY	APPROVD
1	2-16-96	ISSUED FOR CLIENT REVIEW AND PERMIT	GWK	

DESIGN	NLB
DRAWN	GWK
CHECK	
APPROVED	

SAVAGE INDUSTRIES
DRIVE-OVER TRUCK DUMP
COAL TERMINAL PRICE, UTAH

R&M
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SALT LAKE CITY, UTAH
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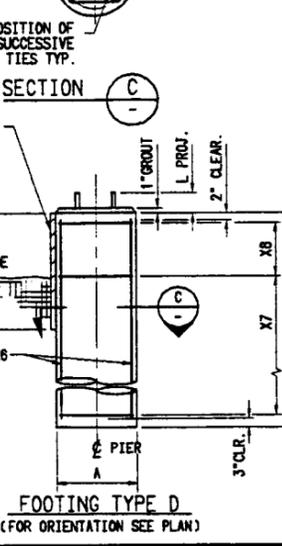
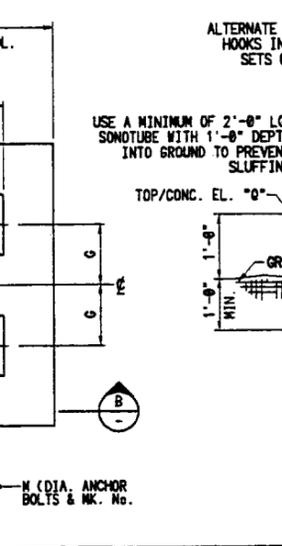
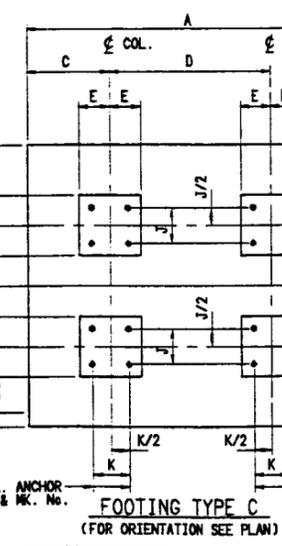
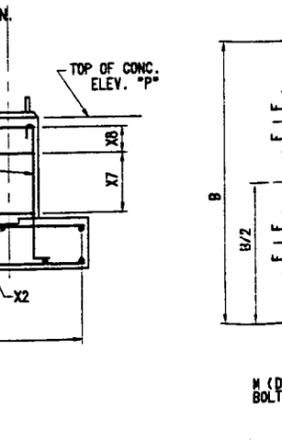
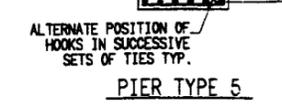
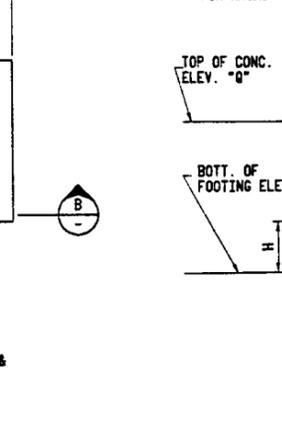
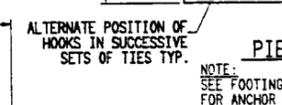
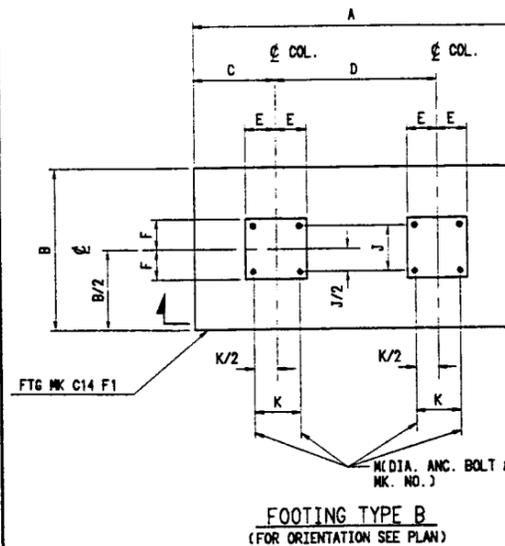
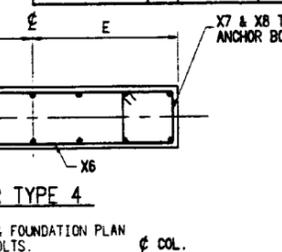
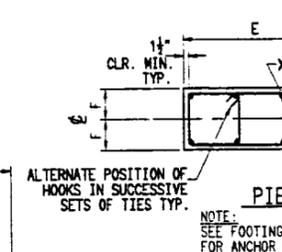
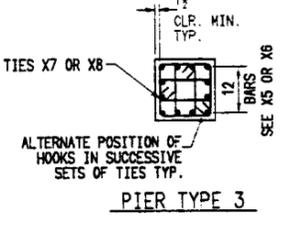
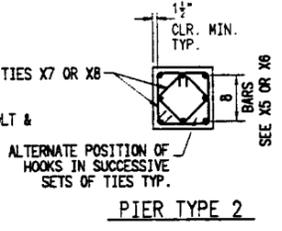
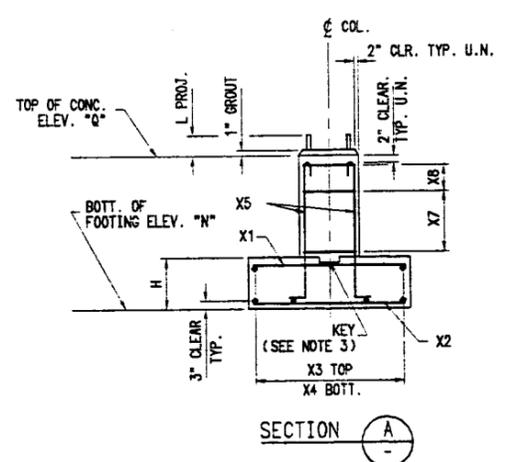
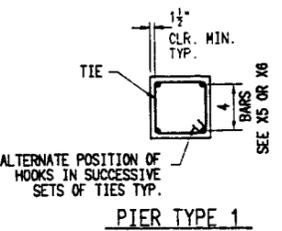
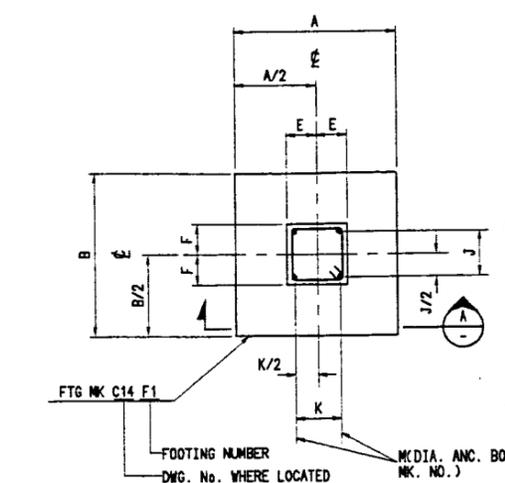
FOUNDATION PLOT PLAN
ANCHOR BOLT SCHEDULE



DATE:	2-16-96
R & M NO.	9588
SCALE	1/4"=1'-0"
DWG. NO.	TREY
	C-1 A

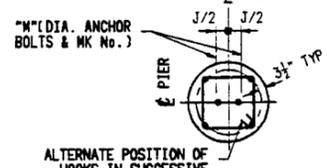
FOOTING SCHEDULE

FTG. MK.	FTG. TYPE	LOCATION OR DWG. NO.	CONCRETE EST. VOL. (C. Y.)	CONCRETE DIMENSIONS								ANCHOR BOLTS			ELEVATIONS			REINFORCING STEEL						REMARKS	MADE BY	CHK'D BY								
				A	B	C	D	E	F	G	H	PIER TYPE	J	K	L	M (PER PIER)	N	P	Q	X ₁	X ₂	X ₃	X ₄				X ₅	X ₆	X ₇	X ₈				
1 # MK C1 F1		C1		SEE DRAWING C-1 FOR DETAILS																														
1 # MK C1 F2	B	C1		14'-0"	4'-0"	2'-3"	9'-6"	8'-9"	8'-9"	-	1'-0"	2	0	6"	5" (2)	2 # MK C1 AB1	87'-3"	100'-9"	100'-9"	85 @ 12"	85 @ 12"	85 @ 12"	85 @ 12"	8- #4	8- #4	84 @ 18"	3 #4 @ 3"		NLB					
1 # MK C1 F3	B	C1		7'-6"	3'-0"	1'-3"	5'-8"	8'-9"	8'-9"	-	1'-0"	2	0	6"	5" (2)	2 # MK C1 AB1	87'-3"	100'-9"	100'-9"	85 @ 12"	85 @ 12"	85 @ 12"	85 @ 12"	8- #4	8- #4	84 @ 18"	3 #4 @ 3"		NLB					
1 # MK C1 F4	B	C1		12'-6"	4'-0"	2'-3"	8'-8"	8'-9"	8'-9"	-	1'-0"	2	0	6"	5" (2)	2 # MK C1 AB1	87'-3"	100'-9"	100'-9"	85 @ 12"	85 @ 12"	85 @ 12"	85 @ 12"	8- #4	8- #4	84 @ 18"	3 #4 @ 3"		NLB					



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UTAH DIVISION OF OIL, GAS AND MINING
PRICE FIELD OFFICE

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GAS & MINING PRICE UTAH



SECTION C

NOTE 2:
USE #4 TIES @ 3 O/C FOR ENTIRE EMBEDDED LENGTH OF ANCHOR BOLTS (REFER TO ANCHOR BOLT SCHEDULE ON DWG. C-1).

- NOTES:
- FOR GENERAL NOTES SEE SPECIFICATIONS.
 - FOR ANCHOR BOLT SCHEDULE SEE DWG. C1.
 - ALL KEYS SHALL BE 4"x4"x2" FOR PIER TYPES 1, 2, 3, 5 AND 2x6xCON. FOR PIER TYPE 4.
 - ALL DOWELS TO HAVE STANDARD HOOKS PER A.C.I. 318 LATEST EDITION.
 - ALL CLEARANCES 2" MIN. UNLESS NOTED.
 - FOOTING MARK No. (EXAMPLE) 2 # C3 F1



DESIGN	CHK
DRAWN	CHK
CHECK	
APPROVED	

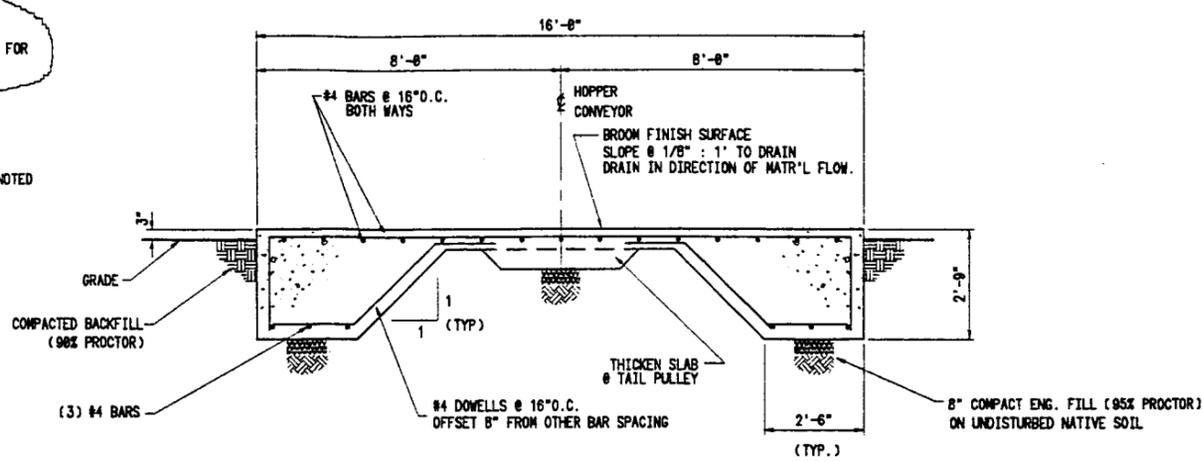
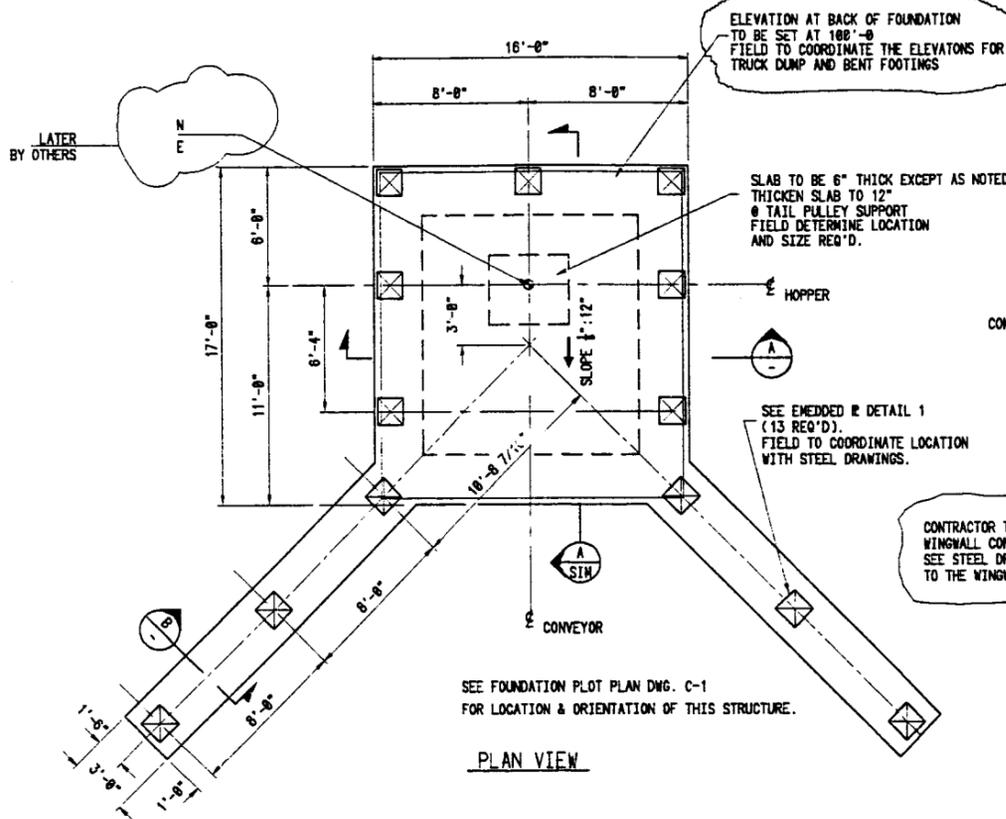
DATE	2-16-96	ISSUED FOR PERMIT AND REVIEW	NLB
REVISION			

SAVAGE INDUSTRIES
DRIVE-OVER TRUCK DUMP
COAL TERMINAL PRICE, UTAH

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801) 263-3419

FOOTING SCHEDULE
PLAN & ELEVATION DETAILS

DWG NO	C-2
REV	A



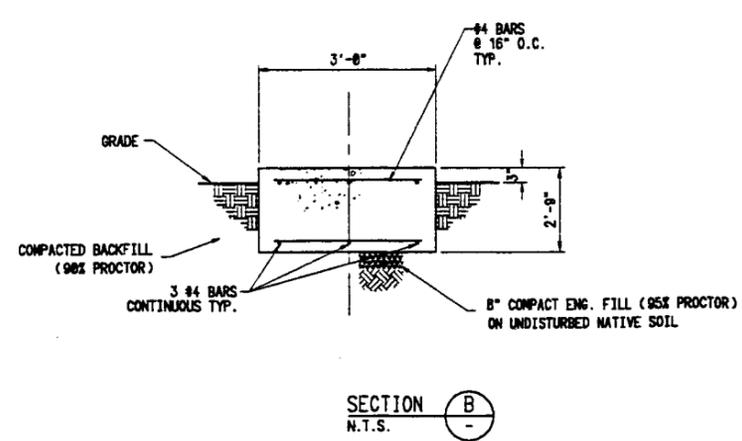
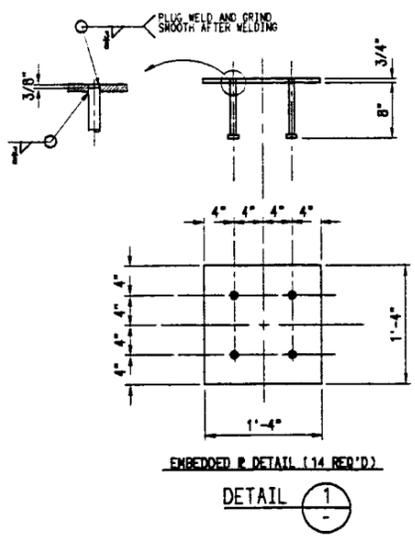
CONTRACTOR TO INSTALL CONCRETE DEADMAN FOR EACH WINGWALL CONSISTING OF PRECAST UNITS SEE STEEL DRAWINGS FOR THE CABLE CONNECTIONS TO THE WINGWALLS.

GENERAL CAST-IN-PLACE CONCRETE NOTES

- MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITIONS OF UNIFORM BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI BUILDING CODES (ACI 318 AND ACI 308), CONCRETE REINFORCING STEEL INSTITUTE (DESIGN HANDBOOK), ASTM DESIGNATED STANDARDS, OSHA (CONSTRUCTION INDUSTRY STANDARDS), AND PROJECT CONCRETE SPECIFICATIONS.
- ALL REINFORCING STEEL SHALL BE DETAILLED IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE (ACI 318).
- ALL #4 AND LARGER REINFORCING BARS ARE TO BE SHOP FABRICATED, BUNDLED AND TANGLED WITH DRAWING NO. AND MARK NO. UNLESS OTHERWISE NOTED.
- SPLICES SHALL CONFORM TO THE ACI BUILDING CODE (ACI 318). BARS SHALL BE CONTINUOUS THROUGH ALL PIERS AND AROUND CORNERS. UNLESS OTHERWISE NOTED, MINIMUM BAR SPLICES SHALL BE AS FOLLOWS:

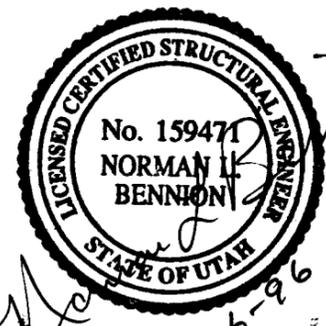
BAR SIZE	LENGTH OF SPLICE
#4	1'-0"
#5	2'-0"
#6	2'-6"
#7	3'-0"
#8	4'-11"
#9	6'-3"
#10	7'-11"
#11	9'-0"

 MINIMUM LAP FOR WELDED WIRE FABRIC SHALL BE ONE FULL MESH PLUS 2 INCHES.
- ALL CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - CONCRETE AGGREGATE - ASTM C33
 - REINFORCING BARS - ASTM A108 GRADE 60
 - WELDED WIRE FABRIC - ASTM A62, A105, A497, A497, F1400, 600 P.S.I.
 - CEMENT - PORTLAND CEMENT ASTM C150 TYPE II.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 P.S.I. EXCEPT FLATWORK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 P.S.I. AT TRUCK DUMP ALL CONCRETE SHALL BE 4,000 P.S.I.
- PROVIDE CONCRETE PROTECTION FOR REINFORCEMENT AS FOLLOWS:
 - CONCRETE DEPOSITED DIRECTLY AGAINST GROUND - 3" CLEARANCE.
 - FORMED CONCRETE EXPOSED TO WEATHER OR GROUND AFTER REMOVAL OF FORMS - 3" CLEARANCE.
 - FORMED CONCRETE NOT EXPOSED TO WEATHER OR GROUND AFTER REMOVAL OF FORMS - 1 1/2" CLEARANCE FOR COLLARS, BEAMS AND GIRDERS. 3/4" CLEARANCE FOR SLABS AND WALLS.
- PROVIDE FORM KEYWAYS AT ALL CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED. KEYWAY SHALL BE 1 1/2" DEEP BY 1/3 THICKNESS OF THE MEMBER UNLESS OTHERWISE NOTED. CONSTRUCTION JOINTS OTHER THAN THOSE SPECIFIED ON DRAWINGS SHALL OCCUR ONLY WHERE APPROVED BY ENGINEER.
- ALL FILL AND BACKFILL SHOULD BE PLACED IN 6" UNCOMPACTED LIFTS AND COMPACTED TO THE FOLLOWING MINIMUM DRY DENSITIES PER ASTM D-1587. BELOW FOOTINGS 95%, BELOW SLABS 90%, BACKFILL FOR FOUNDATIONS AND BELOW GRADE WALLS 90%.
- CONCRETE FINISHES OTHER THAN FLOOR SLABS SHALL HAVE A SMOOTH FINISH. FLOOR SLABS SHALL HAVE A NON-SLIP FINISH (BROOMED). ALL EXPOSED PERIMETERS AND WALLS SHALL BE OF SUFFICIENT FINISH TO REMOVE ALL HONEYCOMBS AND FURN WALKS.
- ALL EXPOSED CORNERS ABOVE GRADE SHALL HAVE A 3/4" BY 45 DEGREE CHAMFER UNLESS OTHERWISE NOTED.
- ALL CONCRETE WORK PERFORMED UNDER HOT WEATHER SHALL BE IN ACCORDANCE WITH ACI STANDARD 308. ALL CONCRETE WORK PERFORMED BELOW 40 DEGREES FARENHEIT SHALL BE IN ACCORDANCE WITH ACI STANDARD 308.
- GROUTING SHALL BE MASTERFLOW 713 AS MANUFACTURED BY MASTER BUILDERS CO. OR FIVE STAR GROUT AS MANUFACTURED BY US GROUT CORPORATION, OR EQUAL.
- CARBON STEEL ANCHOR BOLTS SHALL CONFORM TO ASTM A-307 GRADE "A". EMBEDDED STEEL PLATES AND ANCHES SHALL CONFORM TO ASTM A-36.
- A MINIMUM OF 6 INCHES OF COMPACTED SUB-BASE SHALL BE PLACED BENEATH ALL FOOTINGS, BATS, AND SLABS ON GRADE. THE SUB-BASE MATERIAL SHALL MEET THE REQUIREMENT FOR BASE COURSE FROM THE UTAH DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (AND ADDENDUMS) MINUS 1" MATERIAL, UNLESS OTHERWISE NOTED.
- ALL FOUNDATIONS ARE DESIGNED FOR ALLOWABLE BEARING CAPACITY OF 1,000 PSF. UNLESS OTHERWISE NOTED ON DRAWINGS.



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GAS & MINING PRICE UTAH



NO.	DATE	REVISION	BY	APPROV
1	2-10-96	ISSUED FOR PERMIT AND REVIEW	MLB	

DESIGN: MLB
DRAWN: GWK
CHECK: MLB
APPROVED: _____

SAVAGE INDUSTRIES
DRIVE-OVER TRUCK DUMP
COAL TERMINAL PRICE, UTAH

RSM
R & M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419

TRUCK DUMP CONCRETE
PLAN & SECTIONS

DATE: 2-9-96	R & M NO. 0688
SCALE: 3/8"=1'-0"	DWG. NO. REV.
C-3	A



Savage

(B)

Savage Coal Terminal
2025 E. 5000 S.
Price, Utah 84501
(801) 637-5664

February 12, 1996

Mr. William Malencik
Utah Division of Oil, Gas and Mining
451 East 400 North
Price, Utah 84501

Re: Proposed Amendment
Coal Truck Dump/Conveyor
ACT/007/022
Carbon County, Utah

Dear Mr. Malencik:

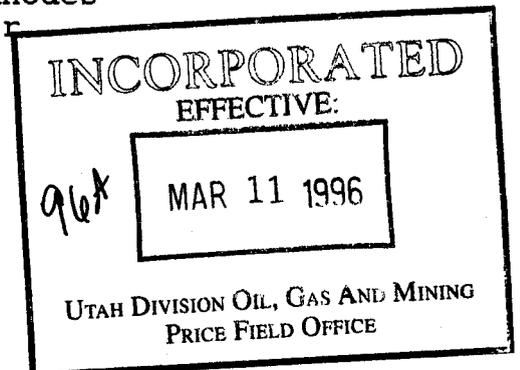
This letter will confirm that Savage Industries, Inc. will commit to covering of the conveyor systems proposed in the above referenced amendment. The covers will conform to those already in use on the site.

If you have any questions, or need any further information, please contact me or Dan Guy.

Sincerely,

Boyd Rhodes
Manager

cc: Jim Sauls - Savage
Dan Guy - Blackhawk Engineering
Paige Beville - ARCO
File



Carbon County BUILDING PERMIT

No. 4621 Issued 3-6-96

THIS RECORD OF INSPECTIONS TO BE KEPT ON JOB SITE
UNTIL ALL REQUIRED INSPECTIONS ARE COMPLETE.

Address 2025 E. 5000 S.
Owner/Contractor SAVAGE

REQUIRED INSPECTIONS:
Section 305(e)

DATE:

APPROVED BY:

	REQUIRED INSPECTIONS: Section 305(e)	DATE:	APPROVED BY:
1	FOUNDATION INSPECTION: Footings, Walls, Slabs		
2	CONCRETE SLAB OR UNDER FLOOR INSPECTION: Bldg. Service, Conduit, Piping, Prior to Concrete		
3	FRAME INSPECTION:		
4	LATH AND/OR GYPSUM BOARD INSPECTION: Prior to Taping		
5	FINAL INSPECTION: For Occupancy		

INCORPORATED
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MAR 11 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

SPECIAL INSPECTIONS:
Sec. 306

RECEIVED
MAR - 8 1996
DIVISION OF OIL
GAS & MINING PRICE UTAH

Carbon County, Utah
BUILDING PERMIT
Building Department
637-4700, Ext. 260

4621

PRICE, UTAH, 3-A, 19 96

M Savage Industries
HAVING PAID TO THE BUILDING OFFICIAL OF CARBON COUNTY, UTAH,

one-thousand one hundred twenty five ^{48/100} DOLLARS (\$1125.48)
IS HEREBY GRANTED A PERMIT TO ERECT OR INSTALL WITHIN 12 MONTHS FROM DATE
HEREOF, IN ACCORDANCE WITH THE PROVISIONS OF APPLICABLE CARBON COUNTY

ORDINANCES, A truck loadout facility

AT 225 E 5000 S

VALUATION 110,283⁰⁰

L. Ballard
Building Official

INCORPORATED
EFFECTIVE:
96X MAR 11 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE



APPLICATION FOR BUILDING PERMIT

CARBON COUNTY, UTAH
(801) 637-4700, Ext. 260

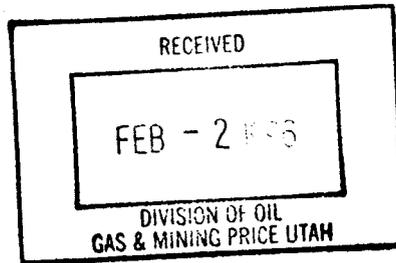
BUILDING, PLUMBING, MECHANICAL, ELECTRICAL PERMIT

No. 4621
Date Issued 3-6-96

Zoning <u>I-2</u> Approved <u>Russ Koubko</u>	LOCATION Job Address: <u>2025 E 5000 So.</u> <u>Price Ut.</u>	LOT _____ TRACT _____ ASSESSOR NO. _____
		OWNER Name: <u>Savage Industries</u> Mailing Address: <u>2025 E. 5000 A</u> <u>Price Ut.</u>
Water Right or Connection: <u>NA</u>	CONTRACTOR Name: <u>Savage Construction</u> License No.: <u>22-232 744-5501</u>	ELECTRICAL Name: <u>EC1</u> License No.: <u>22-239775-5501</u>
Septic or Sewer Connection: <u>NA</u>		
Occupancy: A B E H I M R Div _____ Type of Construction: I II III IV V N _____ hour	PLUMBING Name: _____ License No.: _____	MECHANICAL Name: <u>Neilson Construction</u> License No.: <u>85-245489-5501</u>
Comments: _____		
Special Conditions of Permit: <u>need contractors license numbers</u>	<input checked="" type="checkbox"/> New <input type="checkbox"/> Alter <input type="checkbox"/> Move <input checked="" type="checkbox"/> Add <input type="checkbox"/> Repair <input type="checkbox"/> Demolish	PROPOSED WORK Describe: <u>Truck Coal Loadout Facility</u>
Based on Valuation of: \$ <u>110,253</u>	<div style="border: 2px solid black; padding: 5px; text-align: center;"> <p>INCORPORATED EFFECTIVE:</p> <p><u>96A</u></p> <p>MAR 11 1996</p> <p>NOTICE</p> <p>This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work is commenced. I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.</p> </div>	
Size of Building: <u>180 ft Conveyor</u> sq. feet		
Permit Fee: <u>678.00</u>		
1% Utah Surcharge: <u>6.78</u>		
65% Plan Check Fee: <u>440.70</u>		
Special Investigation Fee: _____	TOTAL <u>1125.48</u>	
Approved <u>Russ Koubko</u>	Signature of Contractor or Authorized Agent (Date) <u>RK</u> <u>3-5-96</u>	Signature of Owner (If Owner Builder) (Date) _____
The valuation used to calculate this permit fee is different than the appraised value used by assessor for taxable value.		



Savage Coal Terminal
2025 E. 5000 S.
Price, Utah 84501
(801) 637-5664



01/31/96

Mr. William Malencik
Utah Division of Oil, Gas & Mining
451 East 400 North
Price, Utah 84501

Re: Proposed Amendment
Coal Truck Dump/Conveyor
Savage Coal Terminal
ACT/007/022
Carbon County, Utah

INCORPORATED
DETECTIVE

Dear Mr. Malencik:

AKA

MAR 11 1996

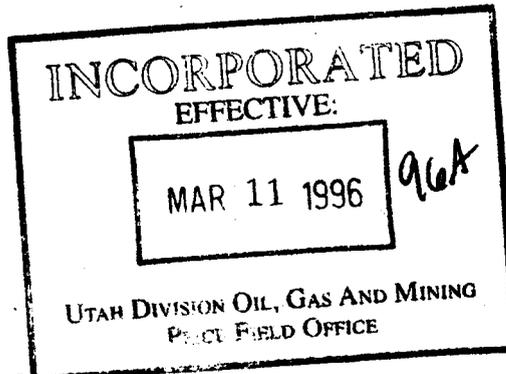
Enclosed are 8 copies of a proposed amendment to the Savage Coal Terminal M.R.P. The proposal is to construct a small, permanent truck dump facility in addition to the temporary system recently approved.

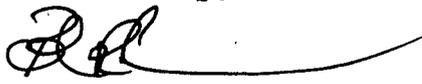
The proposed new system will consist of an elevated ramp, hopper, a 30' transfer conveyor and a 150' conveyor to place the coal on the existing stacking conveyors from the preparation plant. The new system will be located just southeast of the plant, as shown on Plate 3-2. The proposed location is in a disturbed area; therefore, no topsoil will be removed. Approximately 1200 cubic yards of fill material will be imported for the truck ramp. This material will be native pit-run from a local, commercial gravel pit. The only change in the drainage system will be in the form of enhancing drainage to ditch CD-3 by eliminating the 12" pipe (C-11) and extending the 24" culvert (C-21) beyond the projected area. Air Quality will also be improved since less coal will need to be pushed by loaders.

A bond estimate for reclamation of this area has also been completed (See Appendix 3-1). This estimate shows the expected reclamation cost to be approximately \$3505.48. The present bond for the facility is \$2,728,178.00, and includes a 10% contingency of \$272,818.000. Since this project reclamation cost is far less than the contingency, there should be no need to increase the bond on the facility to cover this amendment.

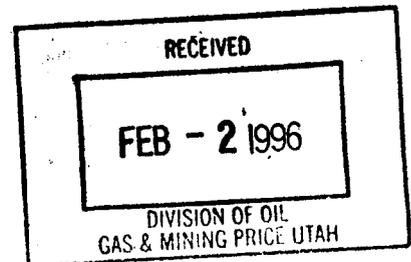
Required permit change forms are enclosed. All maps and pages are numbered, and should replace corresponding items or be added, as designated.

Savage Industries would like to start construction on this project at the earliest possible date. If you have any questions, or need any further information, please contact me or Dan Guy.



Sincerely,

Boyd Rhodes
Manager

cc: Jim Sauls - Savage
Dan W. Guy - Blackhawk Engineering
Paige Beville - ARCO
File



APPLICATION FOR PERMIT CHANGE

Title of Change: ADDITION OF TRUCK DUMP

Permit Number: ACT 0071022

Mine: SAVAGE COAL TERMINAL

Permittee: SAVAGE INDUSTRIES

Description, include reason for change and timing required to implement:

- | | | |
|---|--|--|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 6. Does permit change require or include public notice publication? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 7. Permit change as a result of a Violation? Violation # _____ |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Division Order? D.O.# _____ |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 9. Permit change as a result of other laws or regulations? Explain: _____ |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 10. Does permit change require or include ownership, control, right-of-entry, or compliance information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 11. Does the permit change affect the surface landowner or change the post mining land use? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 12. Does permit change require or include collection and reporting of any baseline information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 15. Does permit change require or include vegetation monitoring, removal or revegetation activities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 17. Does permit change require or include water monitoring, sediment or drainage control measures? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 18. Does permit change require or include certified designs, maps, or calculations? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 19. Does permit change require or include underground design or mine sequence and timing? MAR 11 1996 |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan? UTAH DIVISION OF OIL, GAS AND MINING
PRICE FIELD OFFICE |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area? |

Attach 8 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Dana Ballard MGR 2-2-96
Signed - Name - Position - Date

Subscribed and sworn to before me this 2 day of Feb, 19 96

Dana Ballard
Notary Public

My Commission Expires: 9-27-97, 19 07
Attest: STATE OF _____
COUNTY OF _____



DANA BALLARD
NOTARY PUBLIC - STATE of UTAH
865 EAST 2800 SOUTH
PRICE, UTAH 84501
COMM. EXP. 9-27-97

Received RECEIVED Gas & Mining

FEB - 2 1996

DIVISION OF OIL
GAS & MINING PRICE UTAH

ASSIGNED PERMIT CHANGE NUMBER

Application for Permit Change Detailed Schedule of Changes to the Permit

Title of Change: *ADDITION OF TRUCK DUMP*

Permit Number: *ACT10071022*

Mine: *SAYAGE COAL TERMINAL*

Permittee: *SAYAGE INDUSTRIES*

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit change. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the exiting mining and reclamation plan. Include page, section and drawing numbers as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>Pg. 3-24</i>
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>Pg. 3-24a</i>
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>Pg. 7-88a</i>
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>APPENDIX 3-1</i>
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>PLATE 3-2 C</i>
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<i>PLATE 3-2 D</i>
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Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

3.2.5 Transportation Facilities

3.2.5.1 Roads, Parking Areas

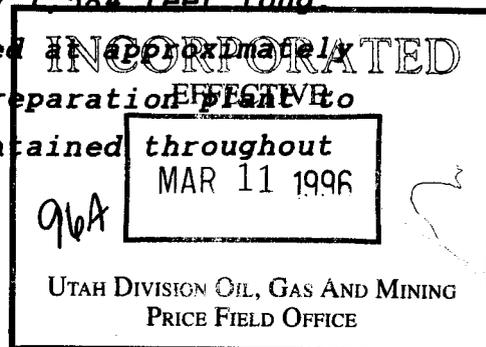
The locations of access and coal haulage roads and parking areas are provided on Plate 3-2.

There are two large road fill embankments at C.V. Spur. The embankments were built as truck dumps and their locations are shown on Plates 3-1 and 3-2. The embankments are constructed of reinforced concrete and steel and compacted earth materials and are a maximum 30 feet in height. Figures 3-5 and 306 show cross-sections of the truck dumps.

A small embankment is proposed to be constructed near the southeast corner of the preparation plant. This embankment will be for a new, drive-over truck dump, and will be approximately 14'6" high. The truck dump location is shown on Plate 3-2, and details regarding the embankment and roadway are shown on Plates 3-2C and 3-2D.

Cross sections of the plant access and coal haulage and processing waste roads are shown on Plate 3-4 "Road Cross-Sections". No culverts at C.V. Spur are used exclusively for road surface drainage and no ditch relief culverts are planned.

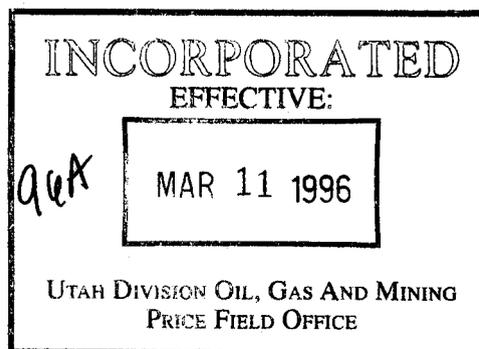
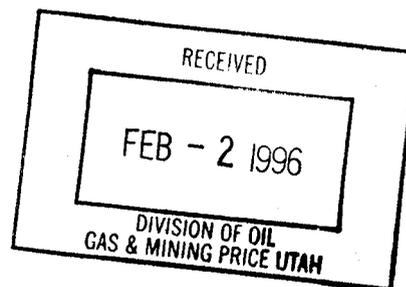
The refuse disposal road is approximately 1,584 feet long. The road is gravel-surfaced and maintained at approximately 20 feet width. The road runs from the preparation plant to the refuse disposal area and will be maintained throughout the active phase of refuse disposal.



**Mining and Reclamation Plan
Castle Valley Spur Processing and Loadout Facility Permit Application**

The above reference roads are all considered "Primary Roads" as provided in R645-301-527.100. All other roads on the site are considered "Ancillary Roads". Road details are shown on Figures 3-5 and 3-4.

Parking areas, shown on Plate 3-2, serve the shop/lab/warehouse, truck scale and preparation plant areas.



Mining and Reclamation Plan
 Castle Valley Spur Processing and Loadout Facility Permit Application

TABLE 7-25

CULVERT DESIGN SPECIFICATIONS

Culvert Number	Design Discharge (cfs)	Diameter (ft)	Length (ft)	Normal Depth	Velocity (ft/sec)
C-1	0.81	1.0	30	0.45	2.38
C-2	0.98	1.5	35	0.35	2.80
C-3	3.70	(2) 1.5	30	0.59	2.90
C-4	0.36	2.0	60	0.26	1.81
C-5	9.68	2.0	70	1.35	3.59
C-6	0.80	1.5	30	0.38	2.2
C-7	10.56	2.0	30	1.43	4.4
C-8	0.77	1.5	60	0.38	2.2
C-9	1.44	1.5	50	0.51	2.7
C-10	11.97	2.0	70	1.60	4.44
C-11	---	---	---	---	---
C-12	5.11	1.5	40	1.11	3.64
C-13A	5.11	1.5	50	1.11	3.64
C-13	5.11	1.5	30	1.11	3.64
C-14**	---	---	---	---	---
C-15	20.5	2.0	20	2.87*	7.60*
C-16	1.34	2.0	30	0.45	2.10
C-17	0.36	2.0	40	0.26	1.81
C-18	0.80	1.0	40	0.46	2.20
C-19	0.22	1.0	20	0.28	1.19
C-20	0.22	1.0	20	0.28	1.19
C-21	1.11	2.0	60	0.34	2.05
C-22	13.88	2.0	100	2.10****	11.49
C-23	0.15	1.0	30	0.20	1.50

* Head Water Depth = 3.50ft.

** Removed 12/18/91 - Replaced with open spillway

*** Erosion to be minimized by the use of 9" med. diam. rip-rap at the culvert outlet.

**** Head Water Depth = 3.50 ft.

Note: Culvert C-11 will be removed and replaced with extended 24" culvert C-21.

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APPENDIX 3-1
RECLAMATION BOND ESTIMATE
TRUCK DUMP AMENDMENT

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**Reclamation Bonding Estimate
Truck Dump Amendment**

Introduction:

All reclamation costs are based on estimates taken from the Means "Heavy Construction Cost Data", Ninth Annual Edition, 1995. Equipment costs are taken from the "Caterpillar Performance Handbook", 25th Anniversary Edition, 1995.

Procedure:

The only additional reclamation costs included on this area will be the removal/salvage of the 2 conveyors and truck hopper, disposal of concrete and removal/regrading of approximately 1200 cubic yards of pit-run material from the ramp.

The proposed reclamation will include removal and transport of steel structures. Concrete will be broken up and placed into the preparation plant pond (No. 4) during final reclamation. The truck ramp material will be used to fill in the remainder of the preparation plant pond and associated ditches.

Calculations:

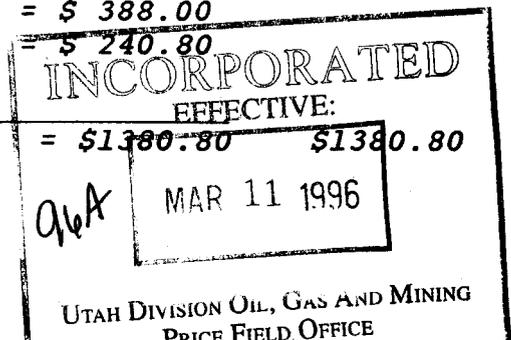
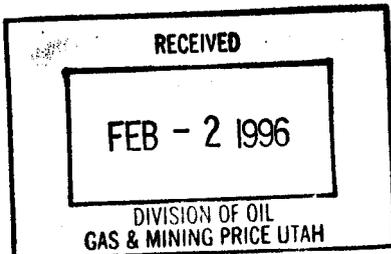
Equipment / Cost

Fill Material	-	1200 cu. yds.	
Concrete	-	50 cu. yds (1350 cu. ft.)	
36" Conveyor	-	180' long	
Truck Hopper	-	12' x 15' x 10' steel	
Common Labor	-	\$15.05 / hr.	
960 Loader	-	\$0.80 / cu. yd. (Load earth to Truck)	
10 cu. yd. Truck	-	\$0.31 / cu. yd. (Haul earth to Pond)	
55 Ton Crane	-	\$94 / hr. (Structure Removal)	
40 Ton Tractor/Trailer	-	\$48.50/hr. (Structure Haulage)	
Trackhoe	-	\$0.90/cu. yd. (Dig out Concrete/Load)	
10 cu. yd. Truck	-	\$1.02/cu. yd. (Haul Concrete to Pond)	
Concrete Demolition	-	\$0.28/ft. ³ (Breakage/Cutting)	

Structure:

Removal	-	8 Hrs. (Crane) x \$94/hr.	= \$ 752.00
Haulage	-	8 Hrs. (Truck) x \$48.50/hr	= \$ 388.00
Labor	-	16 Hrs x \$15.05/hr.	= \$ 240.80

Sub Total = \$1380.80 \$1380.80



Concrete:

Removal - 50 cu. yds. x \$.90/cu. yd. = \$ 45.00
Demolition - 1350 cu. ft. x \$.28/cu.ft. = \$ 378.00
Haulage - 50 cu. yds. x \$1.02/cu. yd. = \$ 51.00

Sub Total = \$ 474.00 \$ 474.00

Earthwork:

Loading - 1200 cu. yds. x \$0.80/cu. yd. = \$ 960.00
Haulage - 1200 cu. yds. x \$0.31/cu. yd. = \$ 372.00

Sub Total = \$1332.00 \$1332.00

Sub Total Reclamation \$3186.80
+ 10% Contingency 318.68

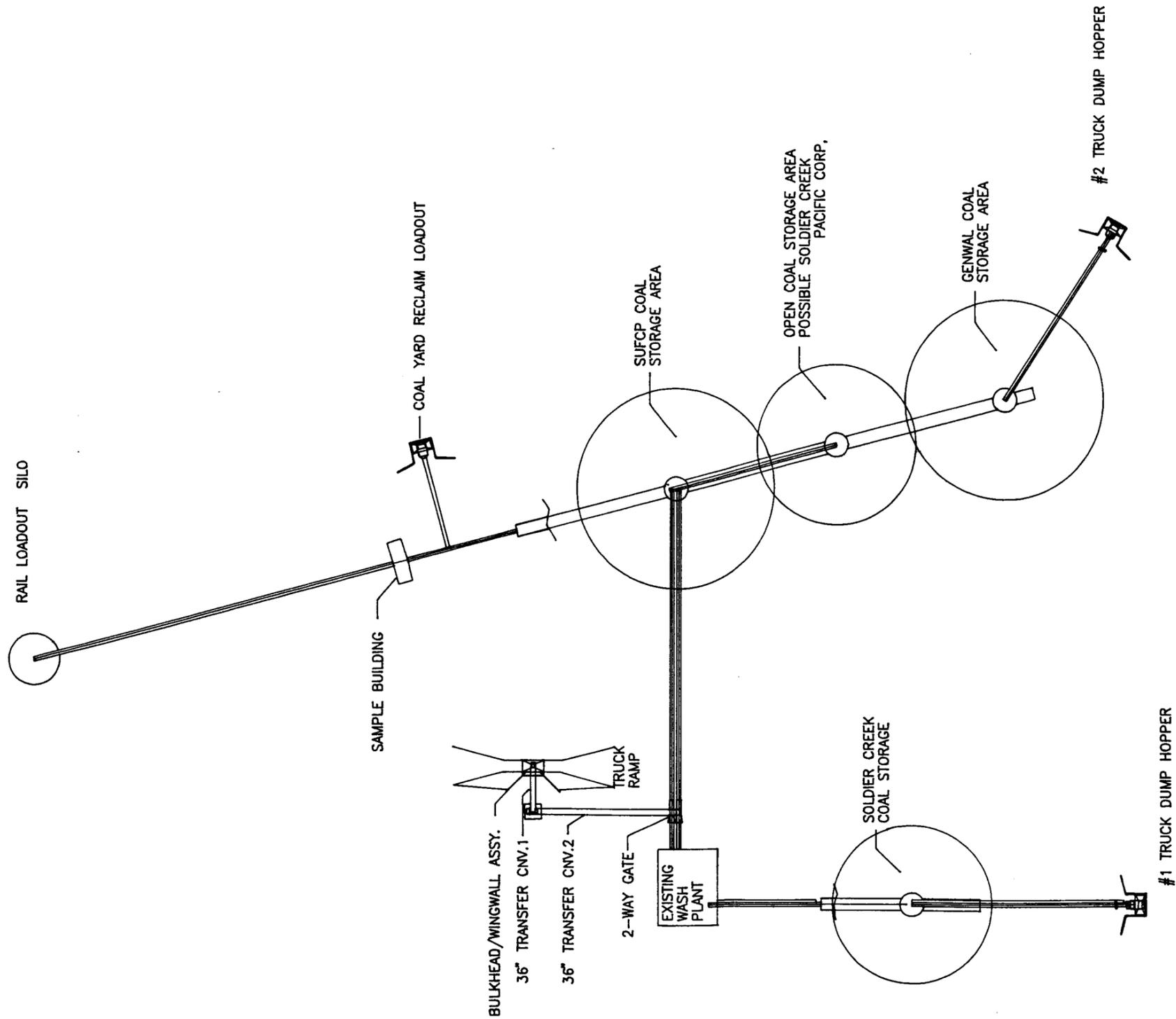
Total Reclamation Cost \$3505.48

Summary:

The total projected reclamation cost for the truck dump is \$3505.48. The Savage Coal Terminal is presently bonded for a total of \$2,728,178.00. This figure includes a 10% contingency of \$272,818.00. If the proposed truck dump reclamation is assumed to be covered in the 10% contingency, it would reduce the contingency by only 1.29%, to \$269,312.52. This should have no effect on the existing reclamation bond.

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MARKETING		
REGIONAL VP		
EXEC. MGMT.		
DEVELOPMENT		

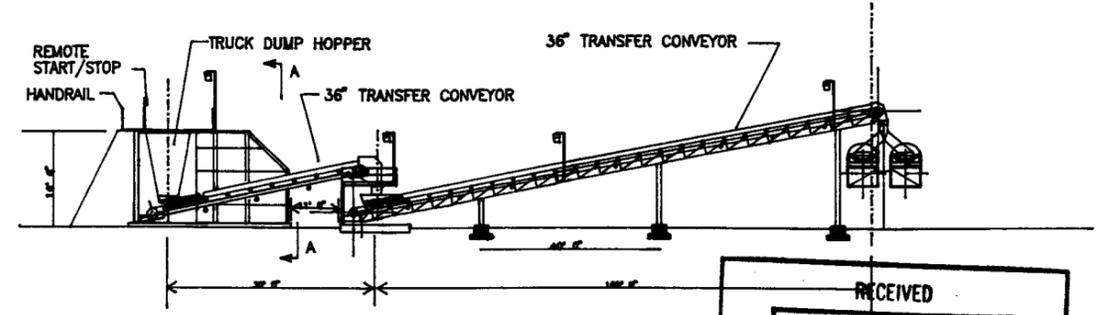
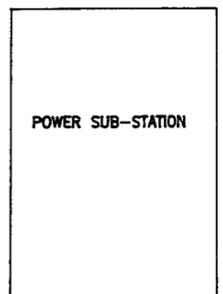
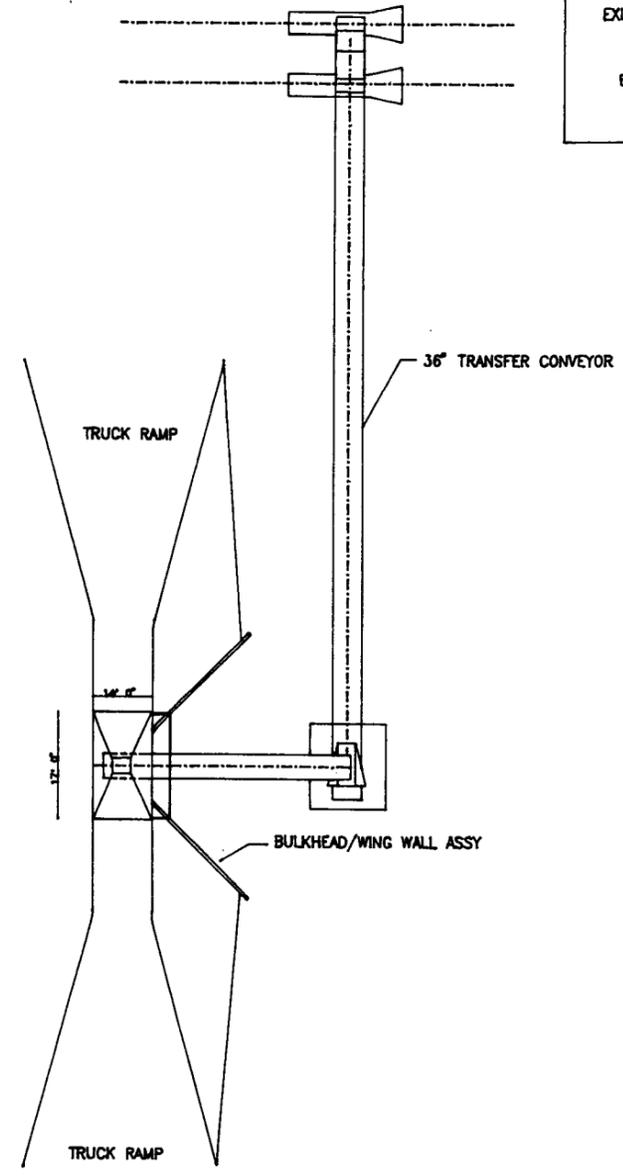
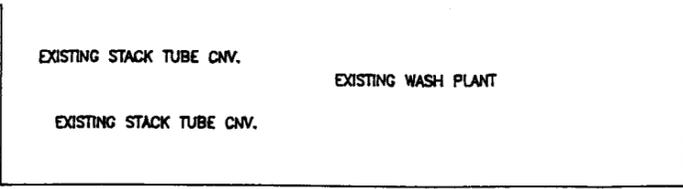
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 **Savage**
 INDUSTRIES, INC.

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DATE: 01/31/96		H. WOLFLEY
SAVAGE COAL TERMINAL COAL/COKE INDUSTRIAL UNIT TRUCK DUMP/TRANSFER SYSTEM PRICE, UTAH		CONCEPT 02-100 FILE: 3-2D

SYSTEM REVIEW		
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SCALE:	APPROVED BY:	DRAWN BY:
DATE: 01/31/96		M. WOLFLEY
SAVAGE COAL TERMINAL COAL/COKE INDUSTRIAL UNIT TRUCK DUMP/TRANSFER SYSTEM PRICE, UTAH		CONCEPT 04-100 PAGE: 3-2C