

C/041/002 Incoming



**Sufco Mine**

Kenneth E. May  
General Manager  
597 South SR24  
Salina, Utah 84654  
(435) 286-4400  
Fax (435) 286-4499

January 8, 2015

Permit Supervisor, Utah Coal Regulatory Program  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, UT 84114-5801

Re: Amendment to MRP to add Rock Chute to Tipple Building and Rock Bin to area adjacent to Tipple Building, Sufco Mine, Canyon Fuel Company, LLC, Permit Number C/041/0002

Dear Sirs:

Please find enclosed with this letter an amendment to the Sufco Mine Permit to address the addition of a Rock Chute to the Tipple Building to facilitate the segregation of rock encountered during mining from coal. The rock will drop through the chute into a rock bin constructed of precast concrete blocks. The rock will be collected from the bin and hauled to the waste rock site as described in the approved permit.

If you have questions or need addition information please contact Vicky Miller at (435)286-4481.

CANYON FUEL COMPANY, SUFCO Mine

A handwritten signature in blue ink that reads 'Kenneth E. May'.

Kenneth May  
General Manager

Encl.

cc: DOGM Correspondence File

**RECEIVED**

JAN 09 2015

**DIV. OF OIL, GAS & MINING**

# APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** Canyon Fuel Company, LLC

**Mine:** Sufco Mine

**Permit Number:** C/041/0002

**Title:** Amendment to MRP to add Rock Chute to Tipple Building and Rock Bin to area adjacent to Tipple Building

**Description,** Include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes  No 1. Change in the size of the Permit Area? Acres: \_\_\_\_\_ Disturbed Area: \_\_\_\_\_  increase  decrease.
- Yes  No 2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does the application require or include public notice publication?
- Yes  No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No 9. Is the application submitted as a result of a Violation? NOV # \_\_\_\_\_
- Yes  No 10. Is the application submitted as a result of other laws or regulations or policies?  
*Explain:* \_\_\_\_\_
- Yes  No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No 13. Does the application require or include collection and reporting of any baseline information?
- Yes  No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 15. Does the application require or include soil removal, storage or placement?
- Yes  No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No 19. Does the application require or include certified designs, maps or calculation?
- Yes  No 20. Does the application require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided?
- Yes  No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

**Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you.** (These numbers include a copy for the Price Field Office)

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

KENNETH E. MAG  
Print Name

Kenneth E. Mag 1/8/15  
Sign Name, Position, Date

Subscribed and sworn to before me this 6 day of January, 2015

Jacquelyn Nebeker  
Notary Public

My commission Expires: \_\_\_\_\_, 20\_\_\_\_ }  
Attest: State of \_\_\_\_\_ } ss:  
County of \_\_\_\_\_ }



**For Office Use Only:**

Assigned Tracking  
Number:

Received by Oil, Gas & Mining



**CHAPTER 5**  
**ENGINEERING**

## 5.20 Operation Plan

### 5.2.1 General

#### 5.2.1.1 Cross Sections and Maps

**Previously Mined Areas.** Plate 5-1 shows the location and extent of known workings of active, inactive, or abandoned underground workings, including openings to the surface, within the permit and adjacent areas. No previously surface-mined areas exist within the permit area.

**Existing Surface and Subsurface Facilities and Features.** Plates 5-2A,2B,2C,2D,2E,2F and 5-5 depicts the following information:

- o All buildings in and within 1000 feet of the permit area, including an identification of the current use of the buildings,
- o The location of surface and subsurface features within, passing through, or passing over the permit area, including major electric transmission lines and pipelines (no agricultural drainage tile fields exist within the permit area),
- o Each public road located in or within 100 feet of the permit area,
- o The location of the waste-rock disposal area, and
- o The location of each sedimentation pond within the permit area (there are no permanent water impoundments within the permit area).

Tipple Building was modified in 2008 to widen the tipple building sump to accommodate the use of a larger loader to collect coal fines when the Tipple Building is being cleaned. This allows a loader to collect the coal fines from the Tipple Building cleanup and put them on the coal storage pile preventing them from being washed through the mine yard. Design and cross sections of the Tipple Building Modification are provided on Figures 5-0C and 5-0D.

To facilitate the separation of rock from coal, a rock chute will be attached to the Tipple Building, with a steel girder in a concrete pier (2' X 2' Approx.) atop a spread footing (3' X 3' X 1' Approx.) providing additional stability. The rock exiting the chute will drop into a rock bin constructed of pre-cast 3'X3'x6' concrete blocks. The diagrams of the rock chute structure and rock bin are located in Appendix 5-11. The location of the rock chute footings and rock bin is used for coal storage, preparation and coal loading, making the salvage of topsoil or subsoil unlikely. Excavated material not of a quality to be placed in the coal pile will be hauled and placed with the waste rock.

**Landowner, Right-of-Entry, and Public Interest.** Plate 5-6 shows the boundaries of lands and the names of present owners of record of those lands, both surface and subsurface, included in or



APPENDIX 5-9

Reclamation Bond Estimate

## Bonding Calculations

## Direct Costs

Subtotal Demolition and Removal	\$1,290,023.50	
Subtotal Backfilling and Grading	\$548,005.00	
Subtotal Revegetation	\$171,967.00	
Direct Costs	\$2,009,995.50	

## Indirect Costs

Mob/Demob	\$201,000.00	10.0%
Contingency	\$100,500.00	5.0%
Engineering Redesign	\$50,250.00	2.5%
Main Office Expense	\$136,680.00	6.8%
Project Mainagement Fee	\$50,250.00	2.5%
Subtotal Indirect Costs	\$538,680.00	26.8%

Total Cost	\$2,548,675.50	
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Escalation factor		0.012
Number of years		5
Escalation	\$156,635.00	

Reclamation Cost Escalated	\$2,705,310.50	
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Bond Amount (rounded to nearest \$1,000) 2016 Dollars	\$2,705,000.00	
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Posted Bond	\$2,874,000.00	
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Difference Between Cost Estimate and Bond Percent Difference	\$169,000.00 5.88%	
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Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Triple Building																				
	Structure's Demolition Cost	Steel Bld Large	24116130020	0.271 /CF							105096					CF	0.2	105096 CF		28965	
	Structure's Vol Demolished																	778 CV			
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	692.2 /day																	
	Transportation Cost Steel Truck Drive	Truck Driver Heavy	Triv	\$37.55 /HR																	
	Disposal Cost Steel																				
	Subtotal																				
	Steel Disposal Cost	Rock Shute																			
	Demolition Cost	Remove whole or cut up - 500 - 1000 lbs	05 05 05 10 0390	60 EA																	
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	692.2 /day																	
	Transportation Cost Steel Truck Drive	Truck Driver Heavy	Triv	37.55 /HR																	
	Disposal Cost Steel																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	02 41 16 17 0400	4.57 /SF																	
	Concrete's Vol Demolished										93										
	Loading Cost	Front end loader 3 CY	312316421300	1.67 /CY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. thr	312323201014	2.95 /CY																	
	Disposal Costs	On site disposal	214116174200	8.65 /CY																	
	Subtotal																				
	Concrete Demolition - Sump																				
	Demolition Cost	Concrete demolition	02 41 16 17 2040	1.72 /SF																	
	Concrete's Vol Demolished										39.2										
	Loading Cost	Front end loader 3 CY	312316421300	1.67 /CY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. thr	312323201014	2.95 /CY																	
	Disposal Costs	On site disposal	214116174200	8.65 /CY																	
	Subtotal																				
	Concrete Blocks (Mobile)																				
	Loading/transportation/Disposal Cost	Root Bunker 2015	2015 Invoice for Same to Mine	92 EA							170										
			SURFCO Invoice																		
	Subtotal																				
	Total																				

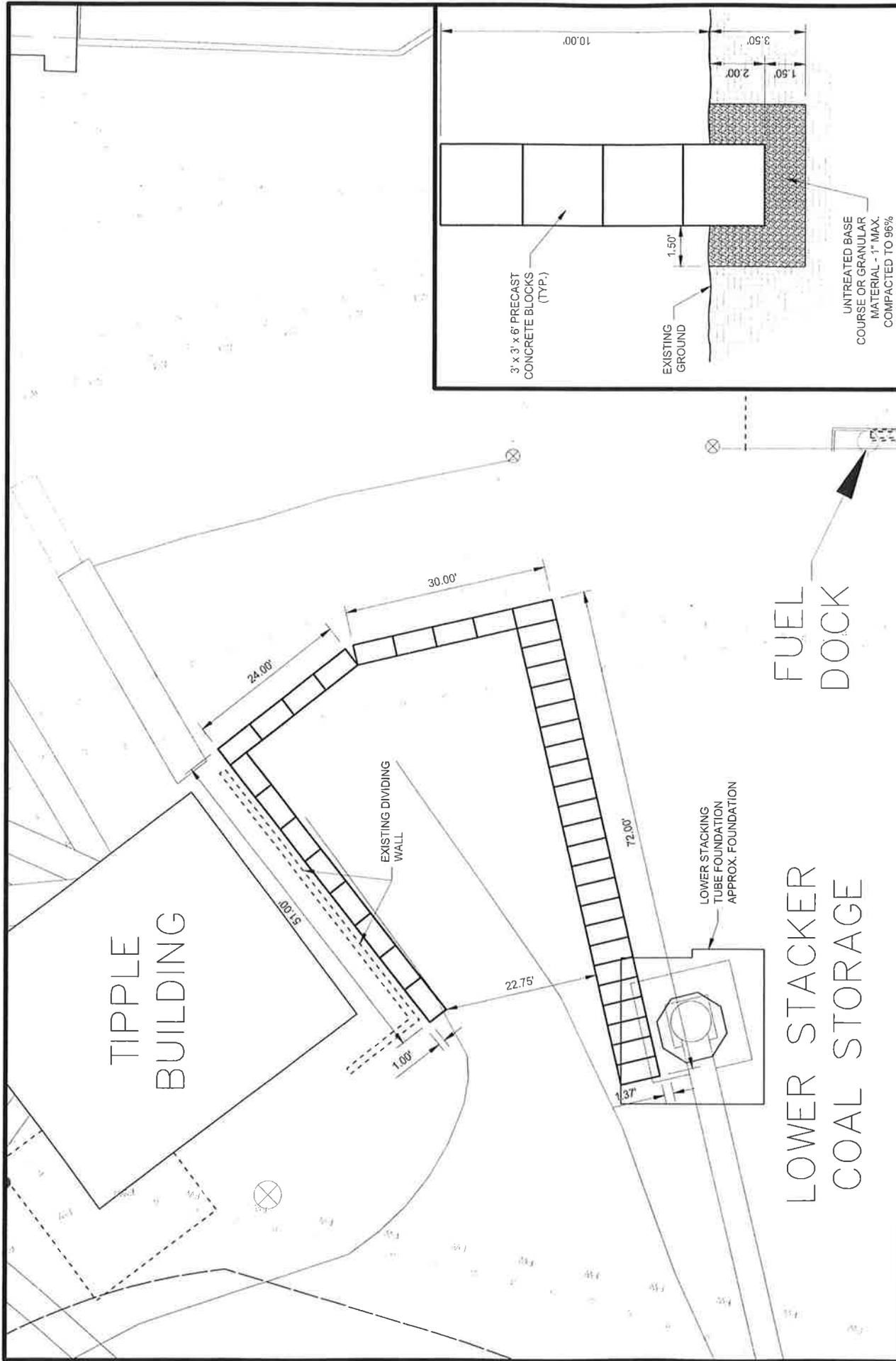
Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Ambulance Garage																				\$2,504.00
	Belt Deicer Tank																				\$13.00
	Best Channels A																				\$143,211.00
	Best Channels B																				\$53,448.00
	Bulk and Used Oil Storage																				\$1,518.00
	Cap Magazine																				\$22.00
	Chlorinator Bld																				\$18.00
	Covered Storage*																				\$0.00
	Diesel Tank																				\$995.00
	Drainage Culverts																				\$25,423.00
	Electrical Bld																				\$602.00
	Fan																				\$8,435.50
	Fire Water Tank 300000 Gal																				\$11,126.00
	Fuel Dock																				\$928.00
	Guard House																				\$348.00
	Loadout Belt																				\$2,599.00
	Lower Stacker Coal Storage																				\$2,148.00
	Lump Coal Belt																				\$533.00
	Lump Coal Storage																				\$2,139.00
	No 1 Belt																				\$3,404.00
	Office Building																				\$67,377.00
	Pavement Removal																				\$35,657.50
	Powder Magazine																				\$22.00
	Pulley Racks *																				\$0.00
	Pump Houses																				\$972.00
	Riprap Filter Fabric																				\$259,568.00
	Rock Dust Bin																				\$3,557.00
	ROM Coal Storage																				\$21,139.00
	ROM MCC Bld																				\$1,022.00
	Sampler Building																				\$991.00
	Sand and Silt Storage																				\$2,905.00
	Seal Portals																				\$62,400.00
	Sediment Trap																				\$1,533.00
	Septic Tanks																				\$0.00
	Shelves *																				\$0.00
	Shop and Warehouse																				\$121,933.00
	Shop Garage																				\$0.00
	Shop Office																				\$11,941.00
	Site Release Tank																				\$2,322.00
	Siren Generator Building																				\$161.00
	Stacker Belt																				\$7,747.00
	Stacker Bin																				\$1,104.00
	Stacker Coal Storage																				\$1,104.00
	Stacker Oil Tanks																				\$6,755.00
	Storage Trainers																				\$3,127.00
	Substation Lower																				\$1,539.00
	Substation Upper																				\$1,256.00
	Ticket Printers																				\$79,848.00
	Triple Building																				\$0.00
	Triple MCC Building																				\$69.00
	Triple Office Building																				\$92,555.00
	Transfer Building																				\$2,759.00
	Trash Pit																				\$3,161.00
	Track Loader Bin																				\$10,303.00
	Track Scale																				\$542.00
	Water Tank Upper																				\$1,895.00
	Water Tank Lower																				\$36,352.00
	West Lease Turners & Belt																				\$0.00
	Yard Hoist																				\$0.00
	Northwater Mitigation																				\$83,424.00
	Link Canyon Facilities																				\$445.50
	Link Canyon Portals																				\$4,117.00
	Link Canyon Substation																				\$8,042.00
	Fourth East Facilities																				\$39,150.00
	Fan Generator Building																				\$2,991.00
	Four East Fan																				\$18,068.00
	Mine 7 Road																				\$10,807.00
	Mine 7 Road																				\$20,718.00
	Auxiliary Building																				\$0.00
	Total																				\$ 1,280,023.50



APPENDIX 5-11

Upper Mine Yard Details

**Rock Chute and Rock Bin**  
2015

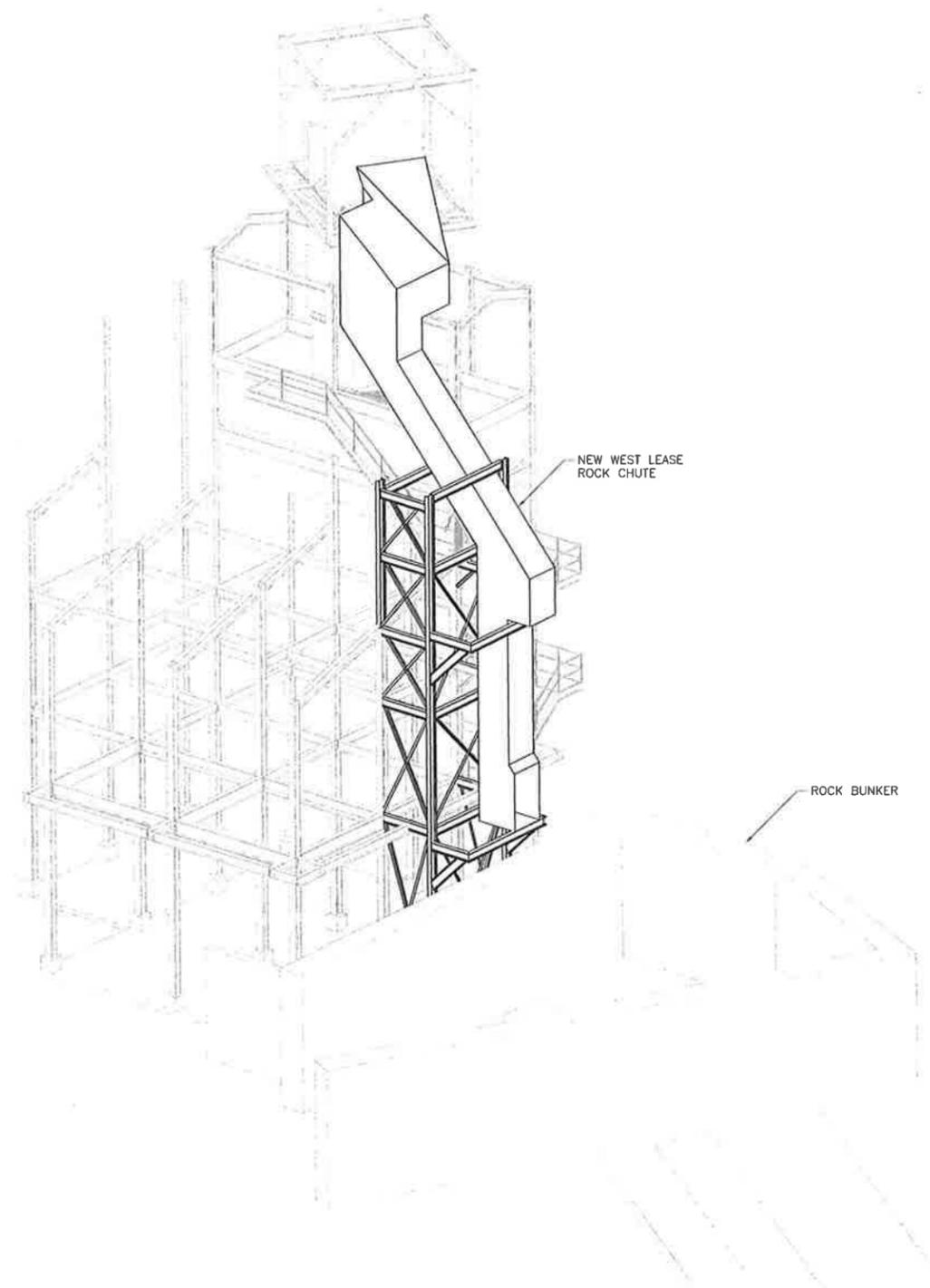


SHEET NO. **PL-1**

**Sufco Mine - Rock Bin**  
**Preliminary Layout**

SCALE: 1" = 20'	DATE: 12/10/2014	DRAWN BY: K.B.B.
ENGINEER: K.B.B.	CHECKED BY: K.B.B.	PROJ: 0114-004
FILE NAME: M:\PROJ\0114-004\dwg\ROCKBIN.dwg		

**Canyon Fuel Company, LLC**  
**SUFCO Mine**  
 597 South SR 24 - Salina, UT 84654  
 (435) 286-4880 Phone  
 (435) 286-4499 Fax



PERSPECTIVE VIEW

**CONFIDENTIAL**  
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REV	DATE	DES CHK	ENG CHK	DIS APPR	DESCRIPTION

REV	DATE	DES CHK	ENG CHK	DIS APPR	DESCRIPTION
	11/11/14				ISSUED FOR INQUIRY

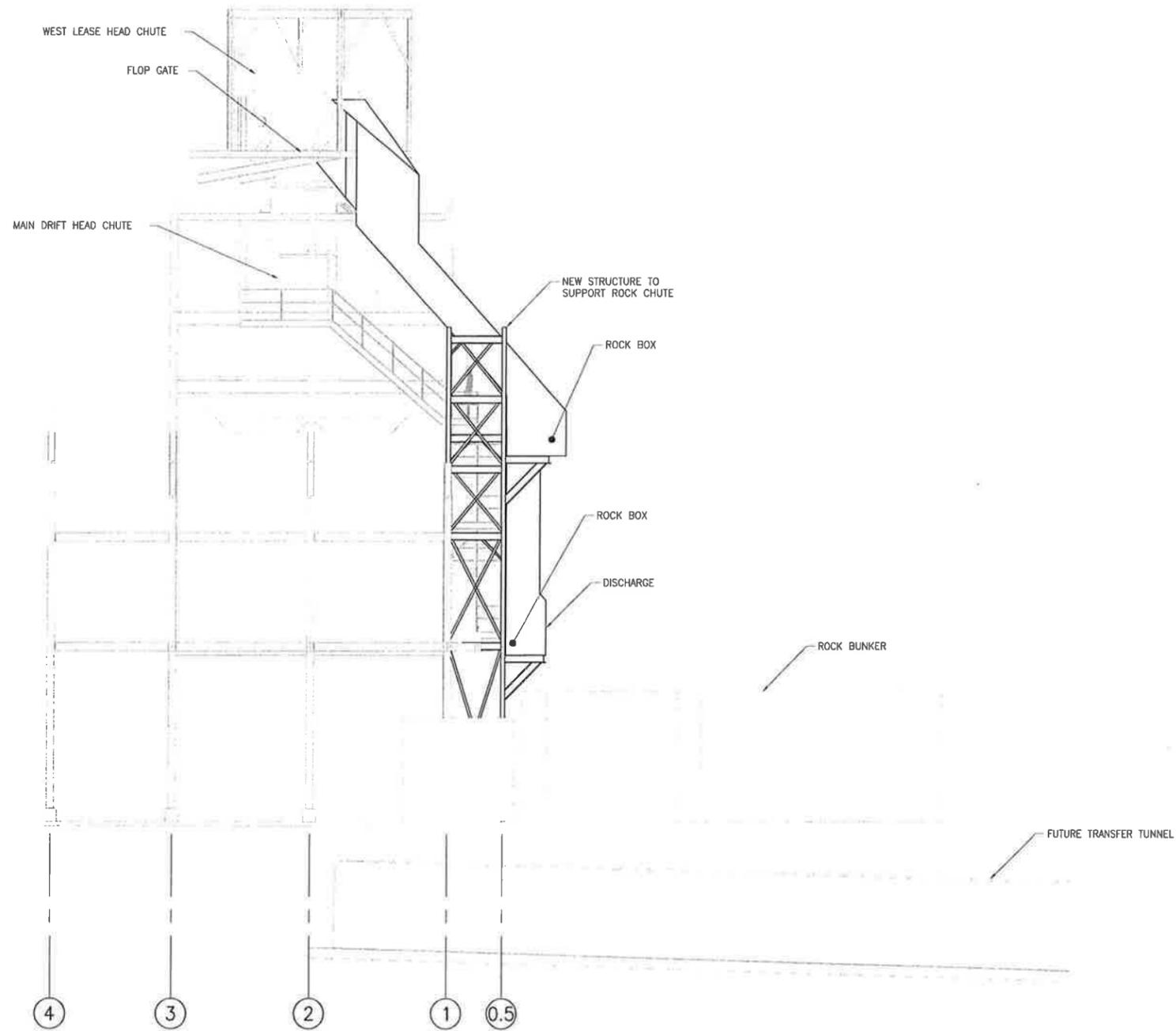


DESIGNER: DRJ	LEAD DESIGNER: DRJ
LEAD ENGINEER:	DISCIPLINE APPR:
PROJECT APPR: JPS	OPERATIONS APPR:

**WEST LEASE ROCK CHUTE  
 PERSPECTIVE**

SUFCO CPP STUDY  
 CANYON FUEL COMPANY LLC. SALINA, UTAH

SCALE (20x34) SHEET SIZE:	NONE	DATE:	11/11/14
DRAWING NUMBER:	F638-L630		
SHEET:	1	OF:	1
PROJECT NO.:	F638		



SECTION A  
SCALE: 1/8" = 1'-0"

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REV	DATE	DES	CHK	ENG	CHK	DIS	APPR	DESCRIPTION
	11/11/14							ISSUED FOR INQUIRY



DESIGNER	LEAD DESIGNER
DRJ	DRJ
LEAD ENGINEER	DISCIPLINE APPL
PROJECT APPL	OPERATIONS APPL
JPS	

**WEST LEASE ROCK CHUTE SECTIONS**  
SUFCO CPP STUDY  
CANYON FUEL COMPANY LLC. SALINA, UTAH

SCALE	DATE	
1/8" = 1'-0"	11/11/14	
DRAWING NUMBER	REV	
F638-L632	A	
SHEET	CF	PROJECT No.
1	1	F638