



Canyon Fuel
Company, LLC.
Sufco Mine

COPY

Ken May, General Manager
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#3739
R

C/041/002 Incoming

A Subsidiary of Arch Western Bituminous Group, LLC. File in:

February 9, 2011

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

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DIV. OF OIL, GAS & MINING

Re: Construction of West Lease Portals, Canyon Fuel Company, LLC, SUFCO Mine C/041/002

Dear Permit Supervisor:

The enclosed four redline copies of the West Lease Portals Amendment are being submitted for approval to construct two new concrete tunnels to access the West Lease Area of the mine. Attached are DOGM forms C-1 and C-2, MRP Table 5-4 "Description of Existing Structures" pages 5-44, 5-45 and 5-46, updated bond calculation sheets, and a construction drawing that shows the proposed locations and details of construction activities. All activities will occur within our current disturbed area boundary at the minesite.

Sufco is in the process of expanding mining operations into the West Lease Area. In order to access the area Sufco permitted three new portals in 2010 (Task ID #3548). Portals 1 and 3 (numbering from West to East) where opened in late 2010. The determination was made that the grade coming out of two of these portals (1 and 2) would be too steep to allow access to the West Lease area from the upper yard area at Sufco's minesite. In order to access the new mining area Sufco wants to permit and construct two concrete tunnels under the upper yard and opening in the current concrete coal storage area of the lower yard.

The following will be used for naming the portals in the rest of the document. Portal 1 and the first concrete tunnel is the West Lease Beltline (WLB), Portal 2 and the second concrete tunnel is the West Lease Main Haulage (WLMH) and Portal 3 is the West Lease Secondary Haulage (WLSH).

The construction drawing was created using Plate 5-2A, Detail of East Spring Canyon Surface Facilities and that plate can be used for reference.

The construction will occur in the following being removed from the Sufco minesite: The covered storage building, 3 shelves and the storage trailer in the upper yard, the concrete stoker coal storage bins and a drop inlet for the 10" mine yard drain system above the concrete stoker coal storage bins.

Two concrete tunnels will be constructed from the lower mine yard under the upper yard and into the West Lease area. The WLB is the west tunnel and is approximately 280 feet in length. The WLMH is the east tunnel and is approximately 300 feet in length. Once constructed they will allow access to the mine and retain the upper yard at the minesite. The WLMH will also have a concrete vent shaft extending approximately 10 feet to the surface at its east end to allow for addition ventilation of the mine. Details of the tunnels and vent shaft are on the construction drawing being submitted.

The current stoker coal storage bins act as the retaining wall between the upper and lower yards. A new retaining wall will be constructed surrounding the portals for the beltline and main haulage way.

This wall will support the upper yard and the road leading to the upper yard/shop area. The area above the new portals will be sloped to allow yard drainage to flow over the surface to the sediment trap in lieu of the drop inlet that will be removed. Details of the retaining wall have been included on the construction drawing.

Bonding calculations for the tunnels, vent shaft and retaining wall have been combined into a new bond sheet named West Lease Tunnels. It has been included in this submittal.

Since the new portals will result in the loss of three concrete storage bins a new bin will be built adjacent to the current sand and salt bin. It will be the same size as the two bins adjacent to it. The current sand and salt bin will also be used for coal storage. A coal bin to the west of the Stoker Bin will be used for sand and salt storage in the winter. Locations of the bins can be found on the construction drawing and a detail drawing of the new bin has been included.

The location and depth of the concrete tunnels will result in the replacement of the 42" undisturbed bypass culvert that drains Mud Spring Hollow into the 72" undisturbed culvert draining East Spring Canyon under the mine yard. The 42" culvert will run parallel to the WLB tunnel and reconnect to the 72" bypass culvert via a concrete junction box in the lower mine yard. Approximately 500 feet of the 72" culvert will also be replaced at this time and moved so that it does not run beneath any structures. A junction box will be placed on each end of the pipe to connect the new sections of culvert with the existing ones. The new culvert will run parallel to the WLMH tunnel and reconnect with the existing culvert in a junction box at the same location as the new 42" culvert. Approximately 445 feet of culvert will be used for the Mud Spring Hollow culvert and approximately 480 feet of 72" culvert will be used for the East Spring Canyon culvert. Six concrete junction boxes will be used. Bonding calculations have been updated accordingly. Locations of the culverts can be found on the construction drawing along with details for the junction boxes.

The following bond calculation pages have been updated with this submittal:

Total2068 page 1
Demo2068 page 1
Demo2068 Covered Storage page 10
Demo2068 Drainage Culverts page 12
Demo2068 Lump Coal Storage page 20
Demo2068 Pulley Racks page 25
Demo2068 Sand and Salt Storage page 32
Demo2068 Shelves page 36
Demo2068 Stoker Coal Storage page 44

The following bond calculation page was added with this submittal:

Demo2068 West Lease Tunnels page 64

The new construction is well within the current bond posted by Sufco.

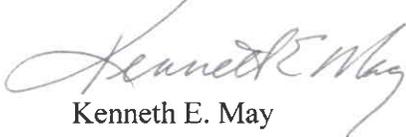
Updated and stamped version of Plates 5-2A, 5-2B, and 7-6 will be submitted once construction activities are completed.

Permit Supervisor
Utah Coal Regulatory Program
February 9, 2011
Page 3

COPY

Sufco would like approval of this amendment as soon as possible to start construction as early in March as possible of this year. If you have any questions or need additional information, please contact Leland Roberts at (435) 286-4483.

Sincerely,
CANYON FUEL COMPANY, LLC
SUFCO Mine



Kenneth E. May
General Manager

Encl.

KEM/FLR:kb

cc: DOGM Price Field Office
DOGM Correspondence File

APPLICATION FOR COAL PERMIT PROCESSING

COPY

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: CANYON FUEL COMPANY, LLC

Mine: SUFCO MINE

Permit Number: C/041/002

Title: Concrete Tunnels to access the West Lease Area at main mine facilities in East Spring Canyon

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

Two concrete tunnels at the mine site facilities in East Spring Canyon. Construction to begin March of 2011

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. MAY, MINE MANAGER

Print Name

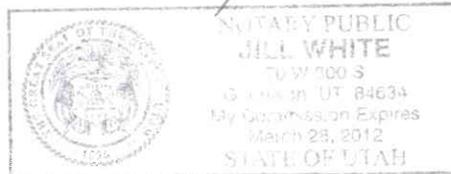
Kenneth E May 2/9/11
Sign Name, Position, Date

Subscribed and sworn to before me this 9th day of February 2011

Jill White
Notary Public

My commission Expires: _____, 20____ }

Attest: State of _____ } ss:
County of _____ }



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DIV. OF OIL, GAS & MINING

TABLE 5-4
 Description of Existing Structures

| Structure | Construction Date | Construction Materials |
|----------------------------|------------------------------|------------------------|
| Ambulance Garage | Summer 2007 | Pre-Engineered Steel |
| Belt Deicer Tank | Fall 1994 | Steel |
| Bulk & Used Oil Storage | Fall 1977 / Fall 2004 | Steel & Concrete |
| Cap Magazine | Summer 1982 | Steel & Wood |
| Chlorinator Building | Summer 1979 | Steel |
| Covered Storage | Summer 1979 | Concrete Block |
| Diesel Tank | Fall 1996 | Steel & Concrete |
| Drainage Culverts | Summer 1976, Summer 2011 | Steel |
| Electrical Building | Summer 1977 | Concrete Block |
| Fan | Winter 1980 | Structural Steel |
| Fire Water Tank - 300,000 | Spring 2002 | Steel & Concrete |
| Fuel Dock | Summer 1976 | Concrete |
| Guard House | Summer 1977 | Wood |
| Load-Out Belt | Summer 1975 | Structural Steel |
| Lower Stacker Coal Storage | Summer 1975 | Structural Steel |
| Lump Coal Belt | Fall 2010 | Structural Steel |
| Lump Coal Storage | Fall 1981, Fall 1982 | Concrete |
| No. 1 Belt | Fall 1977 | Structural Steel |
| Office Building | September 1973 / 1990 / 2006 | Pre-Engineered Steel |
| Powder Magazine | Summer 1982 | Steel and Wood |
| Pulley Racks | Summer 1991 | Steel |
| Pump Houses | Summer 1967 and 1975 | Wood Frame & Metal |
| Rock Dust Bin | Fall 1976, Summer 1982 | Structural Steel |

TABLE 5-4 (Continued)
 Description of Existing Structures

| Structure | Construction Date | Construction Materials |
|--------------------------------|-----------------------------|--------------------------------|
| ROM Coal Storage | Winter 1988 | Struct. Steel/Concrete |
| ROM MCC Building | Winter 1988 | Concrete Block |
| Sampler Building | Fall 2003 | Structural Steel |
| Sand & Salt Storage | Fall 2010 Fall 1981 | Concrete |
| Seal Portals | | Concrete |
| Sediment Trap | Summer 1979 | Concrete |
| Septic Tanks | Summer 1976 / Summer 2006 | Steel / Concrete |
| Shelves | Summer 1990 | Steel |
| Shop Garage | Summer 1989 | Pre-Engineered Steel |
| Shop Office | Summer 1977 | Wood |
| Side Release Tank | Fall 1997 | Steel |
| Steam Cleaner Building | Fall 1981 | Concrete |
| Stoker Belt | Fall 1977 | Structural Steel |
| Stoker Bin | Fall 1977 | Structural Steel |
| Stoker Coal Storage | Fall 1982 Summer 2011 | Concrete |
| Stoker Oil Tanks | Fall 1977 / Fall 2004 | Steel & Concrete |
| Storage Trailers | 1975 | Wood & Aluminum |
| Substation - Lower | Fall 1991 / Fall 2006 -2007 | Steel /Concrete / Binwall |
| Ticket Printers | Summer 1996 | Steel |
| Tipple Building | Fall 1977 / Mod. Fall 2008 | Structural Steel & Concrete |
| Tipple MCC Building | Summer 2005 | Concrete Block |
| Tipple Office Building | Fall 1977 | Concrete Block |

TABLE 5-4 (Continued)
 Description of Existing Structures

| Structure | Construction Date | Construction Materials |
|------------------------|-------------------------|------------------------|
| Transfer Building | Fall 1977 | Structural Steel |
| Trash Pit | Fall 2009 | Concrete |
| Truck Loader Bin | Fall 2002 | Structural Steel |
| Truck Scale | 1975 / 1982 / 1996 | Structural Steel |
| Warehouse and Shop | Summer 1976 | Pre-Engineered Steel |
| Water Tanks - Lower | Summer 1975/Summer 2002 | Steel & Plastic |
| Water Tank - Upper | Summer 1975 | Steel |
| West Lease Portals | Summer 2011 | Concrete |
| | | |
| Link Canyon Facilities | | |
| Link Canyon Portals | Spring 2003 | Steel |
| Link Canyon Substation | Summer 2000 | Steel Skid |
| | | |
| Four East Facilities | | |
| Fan Generator Building | Fall 2003 | Pre-Engineered Steel |
| 4 East Fan | Spring 1996 | Structural Steel |

Bonding Calculations

Direct Costs

| | |
|----------------------------------|----------------|
| Subtotal Demolition and Removal | \$1,094,629.00 |
| Subtotal Backfilling and Grading | \$548,005.00 |
| Subtotal Revegetation | \$171,967.00 |
| Direct Costs | \$1,814,601.00 |

Indirect Costs

| | | |
|-------------------------|--------------|-------|
| Mob/Demob | \$181,460.00 | 10.0% |
| Contingency | \$90,730.00 | 5.0% |
| Engineering Redesign | \$45,365.00 | 2.5% |
| Main Office Expense | \$123,393.00 | 6.8% |
| Project Management Fee | \$45,365.00 | 2.5% |
| Subtotal Indirect Costs | \$486,313.00 | 26.8% |

| | |
|------------|----------------|
| Total Cost | \$2,300,914.00 |
|------------|----------------|

| | | |
|-------------------|-------------|-------|
| Escalation factor | | 0.005 |
| Number of years | | 4 |
| Escalation | \$46,365.00 | |

| | |
|----------------------------|----------------|
| Reclamation Cost Escalated | \$2,347,279.00 |
|----------------------------|----------------|

| | |
|--|----------------|
| Bond Amount (rounded to nearest \$1,000) 2009 Dollars | \$2,347,000.00 |
|--|----------------|

| | |
|-------------|----------------|
| Posted Bond | \$2,874,000.00 |
|-------------|----------------|

| | |
|---|--------------|
| Difference Between Cost Estimate and Bond | \$527,000.00 |
| Percent Difference | 18.34% |

| 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 |
| | Blast Channels A | | | | | | | | | | | | | | | | | | | | \$143,211.00 |
| | Blast Channels B | | | | | | | | | | | | | | | | | | | | \$5,468.00 |
| | 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 | | | | | | | | | | | | | | | | | | | | \$21,495.00 |
| | Electrical Bld | | | | | | | | | | | | | | | | | | | | \$902.00 |
| | Fan | | | | | | | | | | | | | | | | | | | | \$7,781.00 |
| | Fire Water Tank 3000000 Gal | | | | | | | | | | | | | | | | | | | | \$11,126.00 |
| | Fuel Deck | | | | | | | | | | | | | | | | | | | | \$928.00 |
| | Guard House | | | | | | | | | | | | | | | | | | | | \$2,593.00 |
| | Leadout Belt | | | | | | | | | | | | | | | | | | | | \$21,495.00 |
| | Lower Stacker Coal Storage | | | | | | | | | | | | | | | | | | | | \$593.00 |
| | Lump Coal Belt | | | | | | | | | | | | | | | | | | | | \$1,316.00 |
| | Lump Coal Storage | | | | | | | | | | | | | | | | | | | | \$5,494.00 |
| | No. 1 Belt | | | | | | | | | | | | | | | | | | | | \$7,781.00 |
| | Office Building | | | | | | | | | | | | | | | | | | | | \$29,153.00 |
| | Pavement Removal | | | | | | | | | | | | | | | | | | | | \$2.00 |
| | Powder Magazine | | | | | | | | | | | | | | | | | | | | \$72.00 |
| | Pulley Racks * | | | | | | | | | | | | | | | | | | | | \$289,696.00 |
| | Pump Houses | | | | | | | | | | | | | | | | | | | | \$5,957.00 |
| | Riprap Filter Fabric | | | | | | | | | | | | | | | | | | | | \$21,139.00 |
| | Rock Dust Bin | | | | | | | | | | | | | | | | | | | | \$1,062.00 |
| | ROM MCC Bld | | | | | | | | | | | | | | | | | | | | \$711.00 |
| | Sampler Building | | | | | | | | | | | | | | | | | | | | \$2,403.00 |
| | Sand and Salt Storage | | | | | | | | | | | | | | | | | | | | \$1,533.00 |
| | Seal Profals | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Sediment Trap | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Septic Tanks | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Shelves * | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Shop and Warehouse | | | | | | | | | | | | | | | | | | | | \$30,022.00 |
| | Shop Garage | | | | | | | | | | | | | | | | | | | | \$11,842.00 |
| | Shop Office | | | | | | | | | | | | | | | | | | | | \$2,321.00 |
| | Slide Release Tank | | | | | | | | | | | | | | | | | | | | \$2,761.00 |
| | Steam Cleaner Building | | | | | | | | | | | | | | | | | | | | \$713.00 |
| | Stoker Belt | | | | | | | | | | | | | | | | | | | | \$1,104.00 |
| | Stoker Bin | | | | | | | | | | | | | | | | | | | | \$6,765.00 |
| | Stoker Coal Storage | | | | | | | | | | | | | | | | | | | | \$3,030.00 |
| | Stoker Oil Tanks | | | | | | | | | | | | | | | | | | | | \$1,258.00 |
| | Storage Trailers | | | | | | | | | | | | | | | | | | | | \$1,258.00 |
| | Substation Lower* | | | | | | | | | | | | | | | | | | | | \$7,425.00 |
| | Substation Upper* | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Ticket Printers | | | | | | | | | | | | | | | | | | | | \$69.00 |
| | Tipple Building | | | | | | | | | | | | | | | | | | | | \$36,194.00 |
| | Tipple MCC Building | | | | | | | | | | | | | | | | | | | | \$2,759.00 |
| | Tipple Office Building | | | | | | | | | | | | | | | | | | | | \$7,181.00 |
| | Transfer Building | | | | | | | | | | | | | | | | | | | | \$0,303.00 |
| | Trash Pit | | | | | | | | | | | | | | | | | | | | \$42.00 |
| | Truck Loader Bin | | | | | | | | | | | | | | | | | | | | \$1,895.00 |
| | Truck Scale | | | | | | | | | | | | | | | | | | | | \$65,362.00 |
| | Water Tank Upper | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | Water Tank Lower | | | | | | | | | | | | | | | | | | | | \$0.00 |
| | West Lease Tunnels | | | | | | | | | | | | | | | | | | | | \$44,156.00 |
| | Link Canyon Facilities | | | | | | | | | | | | | | | | | | | | \$8,042.00 |
| | Link Canyon Portals | | | | | | | | | | | | | | | | | | | | \$89,150.00 |
| | Link Canyon Substation | | | | | | | | | | | | | | | | | | | | \$2,591.00 |
| | Fourth East Facilities | | | | | | | | | | | | | | | | | | | | \$18,068.00 |
| | Fan Generator Building | | | | | | | | | | | | | | | | | | | | |
| | Four East Fan | | | | | | | | | | | | | | | | | | | | |

| 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 | |
|------|---------------------------------------|--|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|---|
| | Covered Storage* | | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | Masonry Bld. Large | 02220 110 0080 | 0.21 /CF | CF | | | | | | 47813 | | | | | | 0.35 | 0.35 | 0 CF | 0 | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Drive | | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Non Steel | On site disposal | 02220 240 5550 | 7.6 /CY | | | | | | | | | | | | | | | | | 0 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete demolition | ConcreteDemo1 | 3.97 /CY | CY | | | | | | 120 | | | | | | | | | | 0 |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 124 1300 | 1.39 /CY | | | | | | | | | | | | | | | | | 0 |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. mtd. lin | 02315 190 0520 | 3.44 /CY | | | | | | | | | | | | | | | | | 0 |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.6 /CY | | | | | | | | | | | | | | | | | 0 |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

* Covered Storage Building was removed in 2011

| 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 | |
|------|-------------------------------------|---|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|--|
| | Drainage Culverts | | | | | | | | | | | | | | | | | | | | |
| | 42" Mud Spring Canyon CMP removal | | | | | | | | | | | | | | | | | | | | |
| | 42" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 445 | 3.5 | 7 | | | | | | | | FT | | 404 CY | | 687 | |
| | 42" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 445 | 3.5 | 7 | | | | | | | | FT | | 404 CY | | 618 | |
| | 72" East Spring Canyon CMP | | | | | | | | | | | | | | | | | | | | |
| | 72" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 1554 | 6 | 12 | | | | | | | | FT | | 4144 CY | | 7045 | |
| | 72" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 1554 | 6 | 12 | | | | | | | | FT | | 4144 CY | | 6340 | |
| | 48" East Spring Canyon CMP | | | | | | | | | | | | | | | | | | | | |
| | 48" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 505 | 4 | 8 | | | | | | | | FT | | 599 CY | | 1018 | |
| | 48" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 505 | 4 | 8 | | | | | | | | FT | | 599 CY | | 916 | |
| | 24" East Spring Canyon CMP | | | | | | | | | | | | | | | | | | | | |
| | 24" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 250 | 2 | 4 | | | | | | | | FT | | 74 CY | | 126 | |
| | 24" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 250 | 2 | 4 | | | | | | | | FT | | 74 CY | | 113 | |
| | 68" East Spring Canyon Contech Pipe | | | | | | | | | | | | | | | | | | | | |
| | 68" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 340 | 5.5 | 4 | | | | | | | | FT | | 277 CY | | 471 | |
| | 68" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 340 | 5.5 | 4 | | | | | | | | FT | | 277 CY | | 424 | |
| | 18" CMP Sediment Pond Diversion | | | | | | | | | | | | | | | | | | | | |
| | 18" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 1300 | 2 | 4 | | | | | | | | FT | | 385 CY | | 655 | |
| | 18" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 1300 | 2 | 4 | | | | | | | | FT | | 385 CY | | 589 | |
| | 6" ADS Sediment Pond Diversion | | | | | | | | | | | | | | | | | | | | |
| | 6" Culvert Excavate | Excavation Bulk Bank 2 CY (322BL) | 02315 424 0260 | 1.7 /CY | | 230 | 2 | 4 | | | | | | | | FT | | 68 CY | | 116 | |
| | 6" Culvert Backfill | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | 230 | 2 | 4 | | | | | | | | FT | | 68 CY | | 104 | |
| | Backfill ROM 84" Escapeway CMP | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | | | | | | 108 | | | | | CY | | 108 CY | | 165 | |
| | Backfill Concrete Reclaim Tunnel | Backfill Trench Minimal Haul 2 1/4 CY | 02315 610 3080 | 1.53 /CY | | | | | | | 600 | | | | | CY | | 600 CY | | 918 | |
| | Concrete Demolition | Concrete demolition | ConcreteDemot | 3.97 /CY | | | | | | | 56.9 | | | | | CY | | 59 CY | | 234 | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | 1.3 | 77 CY | | 107 | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | | | | | | | | | | | | | | 77 CY | | 107 | |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. m.d. trip | 02315 490 0320 | 3.44 /CY | | | | | | | | | | | | | | 77 CY | | 265 | |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.6 /CY | | | | | | | | | | | | | | 77 CY | | 585 | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

| 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 | |
|------|---------------------------------------|---|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|-----|
| | Lump Coal Storage | | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | | |
| | Dismanling Cost | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete demolition | Concrete Demo 1 | 3.97 /CY | CY | | | | | | 75 | | | | | | | | | | 298 |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | CY | | | | | | | | | | | | | | | | 136 |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. md. Int | 02315 499 0520 | 3.44 /CY | CY | | | | | | | | | | | | | | | | 337 |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.8 /CY | CY | | | | | | | | | | | | | | | | 745 |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

| 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 | |
|------|---------------------------------------|---------------------------|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|----------|--------------|----------|------|------|--|
| | Pulley Racks * | | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | Steel Blk. Large | 02220 110 0012 | 0.2 | CF | 9 | 90 | 14 | | | | | | | | FT | 0.1 | 0 | CF | 0 | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | 16 | | | | | CY | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | Truck dump 18 ton payload | 01590 200 5300 | 435.86 | /day | | | | | | | | | | 3 | Trip/Day | | | | | |
| | Transportation Cost Steel Truck Drive | Truck Driver, Heavy | Trhw | \$42.00 | HR | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

| 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 | |
|------|---------------------------------------|--|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|--|
| | Sand and Salt Storage | | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | | |
| | Equipment & Disposal Cost | | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | | |
| | Equipment & Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete demolition | ConcreteDemo1 | 3.97 /CY | | | | | | | 35 | | | | | CY | 1.3 | 35 | CY | 139 | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | | | | | | | | | | | | | | | | | |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. rd. to | 02315 490 0320 | 3.44 /CY | | | | | | | | | | | | | | | | | |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.6 /CY | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

| 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 |
|------|---------------------------------------|---------------------------------------|------------------------|-------------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|----------|--------------|----------|---------|------|
| | Shelves * | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | Steel Blk. Large | 02220 110 0012 | 0.2 /CF | | 8.5 | 37 | 12 | | | | | | | 3 | FT | | 0.1 | 0 CY | 0 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | 16 | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | 3 | Trip/Day | | | 0 Trips | 0 |
| | Transportation Cost Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 435.86 /day | | | | | | | | | | | | | | | | 0 |
| | Transportation Cost Steel Truck Drive | Truck Driver, Heavy | Trhw | \$42.00 /HR | | | | | | | | | | | | | | | | 0 |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | 0 |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete demolition | ConcreteDemo1 | 3.97 /CY | | 3 | 3 | 9 | | | | | | | 12 | FT | | | 0 CY | 0 |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | | | | | | | | | | | | | | | | 0 |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. rd. | 02315 490 0520 | 3.44 /CY | | | | | | | | | | | | | | | | 0 |
| | Disposal Costs | On site disposal | 02220 240 3550 | 7.6 /CY | | | | | | | | | | | | | | | | 0 |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |

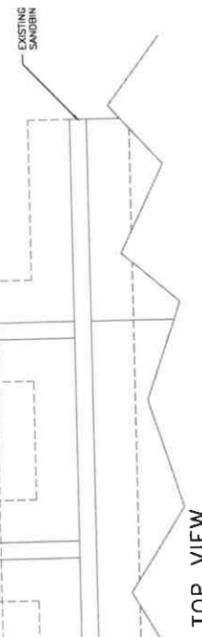
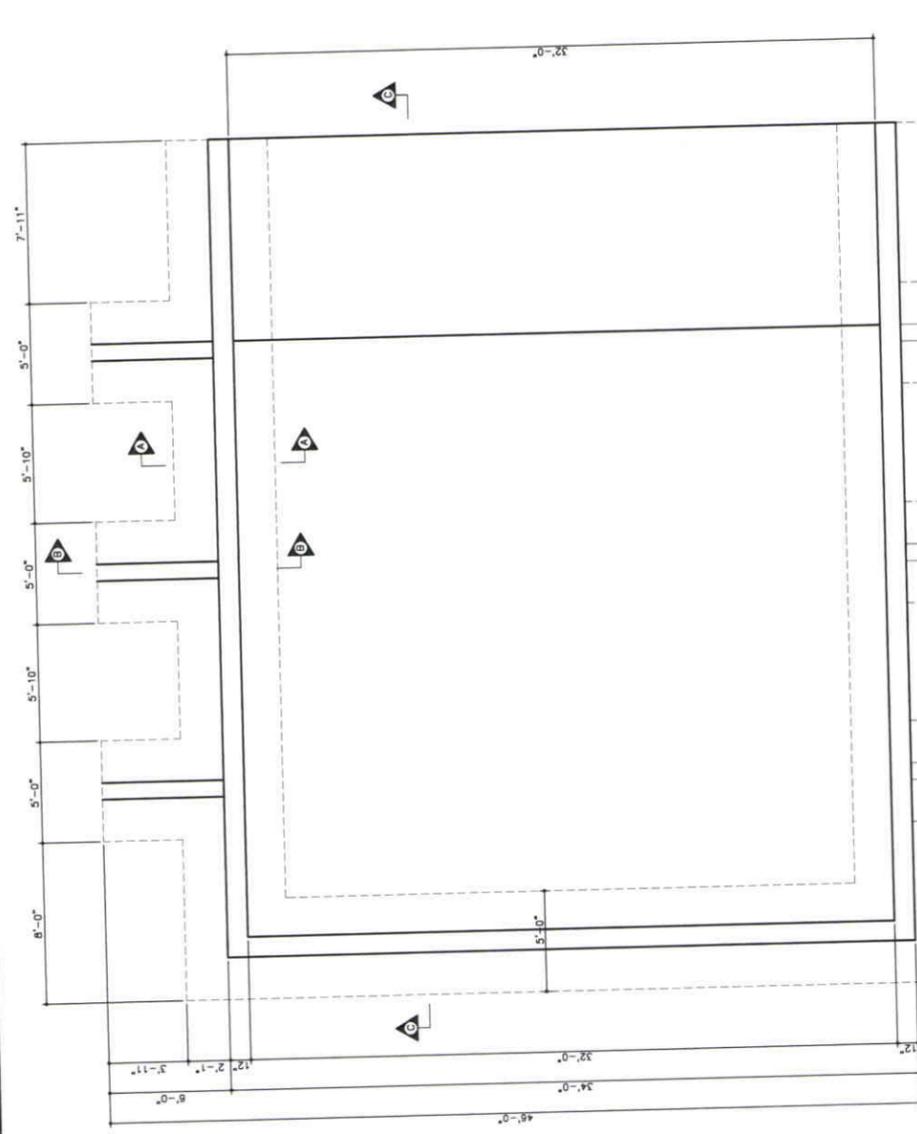
| Ref. | Description | Materials | Means Reference Number | Unit Cost | Unit | Length | Width | Height | Diameter | Area | Volume | Weight | Density | Time | Number | Unit | Swell Factor | Quantity | Unit | Cost | |
|------|---------------------------------------|---|------------------------|-----------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|-----|
| | Stoker Coal Storage | | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete demolition | ConcreteDemo1 | 3.97 /CY | | | | | | | 150 | | | | | CY | | 150 | CY | | 596 |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | | | | | | | | | | | | | | | | | |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. mt. Int | 02315 490 0920 | 3.44 /CY | | | | | | | | | | | | | | | | | |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.6 /CY | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | | |

| 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 |
|------|---------------------------------------|--|------------------------|-------------|------|--------|-------|--------|----------|------|--------|--------|---------|------|--------|------|--------------|----------|------|------|
| | West Lease Tunnels | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | Steel Blid. Large | 02220 110 0012 | 0.2 /CF | CF | 30 | 24.5 | 4 | | | | | | | | FT | 0.1 | 2940 | CF | 588 |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | 11 | CY | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Non Steel | | | | | | | | | | | | | | | | | | | |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | 16 | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 435.96 /day | day | | | | | | | | | | 3 | | | | | |
| | Transportation Cost Steel Truck Drive | Truck Driver, Heavy | Triv | \$42.00 | HR | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Equipment's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | Concrete Demolition | ConcreteDemo1 | 3.97 /CY | CY | | | | | | 2153 | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | Front end loader 3 CY | 02315 424 1300 | 1.39 /CY | CY | | | | | | | | | | | | | | | |
| | Transportation Cost | 12 CY (16 Ton) Dump Truck 1/2 mi. mt. Trip | 02312 460 0320 | 3.7 /CY | CY | | | | | | | | | | | | | | | |
| | Disposal Costs | On site disposal | 02220 240 5550 | 7.6 /CY | CY | | | | | | | | | | | | | | | |
| | Concrete Demolition | | | | | | | | | | | | | | | | | | | |
| | Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | Concrete's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Cost | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |

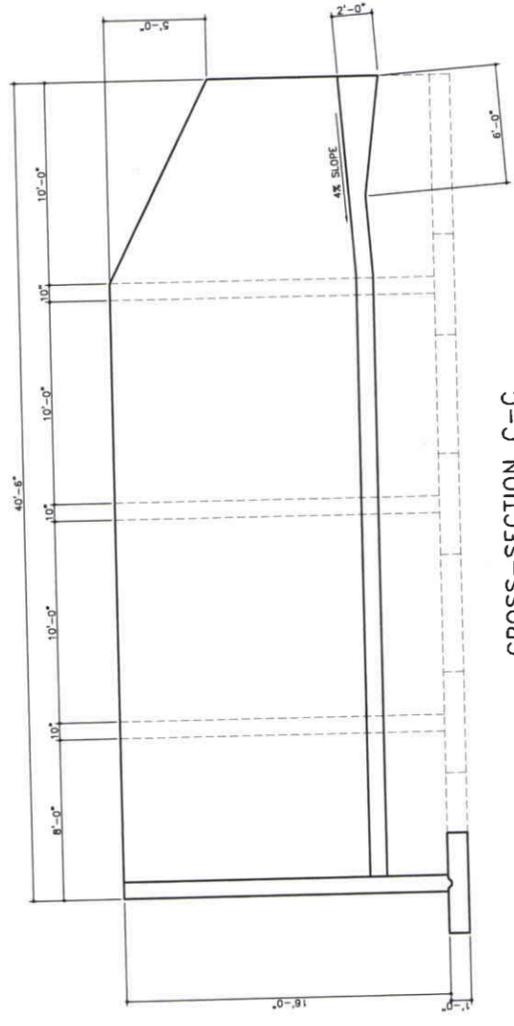


RECEIVED
FEB 14 2011

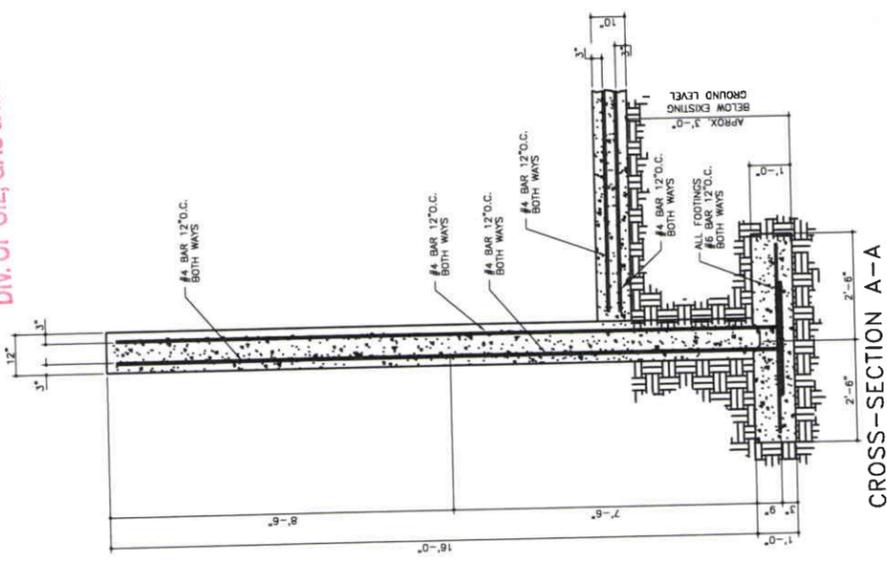
DIV. OF OIL, GAS & MINING



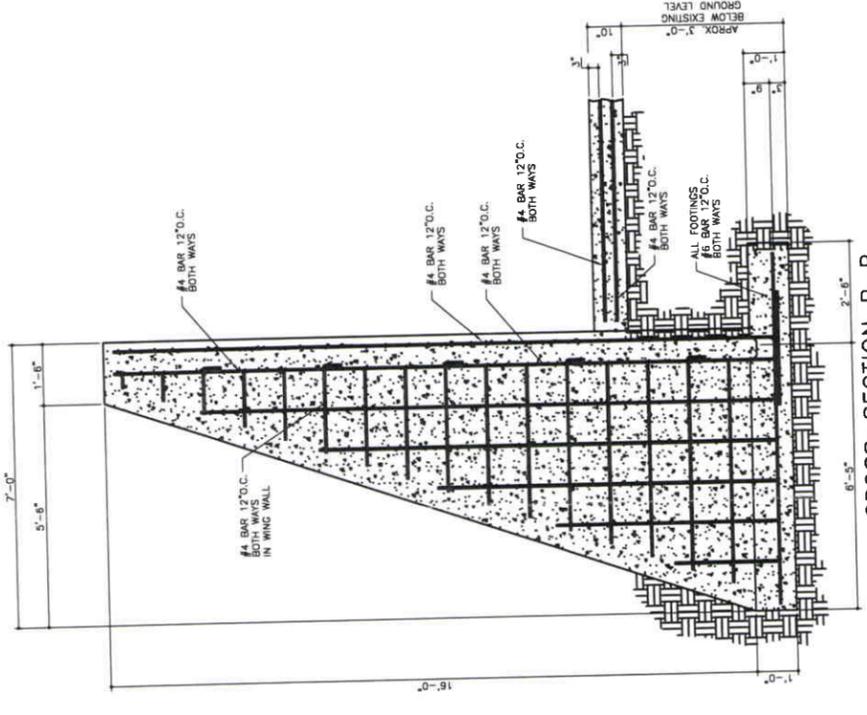
TOP VIEW



CROSS-SECTION C-C



CROSS-SECTION A-A



CROSS-SECTION B-B

NOTES:

- 1- CONCRETE TYPE II CEMENT CLASS AA (A3) 6.5 BAG.
- 2- ALL REINFORCING STEEL TO BE EPOXY-COATED WITH THE ENDS PAINTED OR DIPPED WHEN CUT.
- 3- ALL REINFORCING STEEL DOWELS TO EXTEND A MINIMUM OF 24 INCHES.
- 4- ONE INCH CHAMFER ON FRONT AND TOP EDGES OF WALLS.

| | | | |
|---|-----------------|--|------------|
| | | PROPOSED NEW COAL STORAGE BIN | |
| Canyon Fuel Company, LLC SUFCO Mine 597 South W. 286-4880 Phone (435) 286-4898 Fax | | SHEET NO. 1 | |
| NO. | DATE | DRAWN BY | CHECKED BY |
| 1 | 1-10-10/20/2011 | SCL | MAN |
| REVISIONS | | REMARKS | |
| 1 | 1-10-10/20/2011 | SCL | MAN |
| SCALE: 1/4" = 1'-0" | | ORDER BY: H. YORANIKOS/TOPVIEW-COALBING | |