

April 16, 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 Asphalt, a West Lease #1 Belt Sump and Drainage Control, Task ID#4785,  
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 sump at the West Lease #1 Belt, drainage control to collect and direct water through the area adjacent to the West Lease Portal which will receive asphalt. The reclamation costs were originally included with this amendment, however the entire bond has now been revised and submitted in association with deficiencies from the Division's Midterm review.

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

CANYON FUEL COMPANY, SUFCO Mine



Kenneth May  
General Manager

Encl.

cc: DOGM Correspondence File

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**APR 20 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 Asphalt, a West Lease #1 Belt Sump and Drainage Control, Task ID#4785

**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.

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

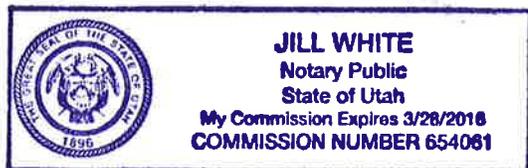
Kenneth E. May  
Print Name

Kenneth E. May 4/17/15  
Sign Name, Position, Date

Subscribed and sworn to before me this 17<sup>th</sup> day of April, 2015

Jill White  
Notary Public

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



<p><b>For Office Use Only:</b></p>	<p>Assigned Tracking Number:</p>	<p>Received by Oil, Gas &amp; Mining</p> <p style="text-align: center; color: blue; font-weight: bold; font-size: 1.2em;">RECEIVED</p> <p style="text-align: center; color: red; font-weight: bold;">APR 20 2015</p> <p style="text-align: center; color: blue; font-weight: bold;">DIV. OF OIL, GAS &amp; MINING</p>
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**CHAPTER 5**  
**ENGINEERING**

### 5.3.4 Roads

#### 5.3.4.1 Location, Design, Construction, Reconstruction, Use, Maintenance, and Reclamation

**Control of Damage to Public or Private Property.** All roads used by SUFCO Mine were designed in accordance with applicable county, UDOT, and U.S. Forest Service standards. By designing according to these standards, damage to public or private property has been minimized.

**Road Surfacing.** The surface of the mine access road consists of asphalt with a rock-chip wear surface (see Section 5.2.7.2). All ancillary roads are unimproved dirt roads. No acid- or toxic-forming materials have been used in the road surfaces.

Appendix 5-11 contains design drawing and information pertaining to the paving of an area in the upper mine yard and the repair and re-paving of the area between the shop/warehouse and the ambulance garage/Dodge Shop/steam bay/dog house and re-paving of an area behind the shop/warehouse building. The areas to be paved will also have three segments of concrete ditch with drop drains. The drop drain will direct surface runoff into existing culverts, which discharge water into the sediment pond for treatment.

A fourth drop drain located in the left-hand corner of the site plan drawing (Appendix 5-11) will collect water and direct the water through a drain pipe, inserted through a concrete wall to the lower yard. **In the second phase of the paving and drainage installation the drain pipe through the concrete wall will be connected to a pipeline which connects to an existing drain.** The water will proceed per the permitted drainage plan, through the yard to the sediment pond. **During Phase 2 a sump will be constructed in the vicinity of the West Lease portals, refer to Chapter 7 and Appendix 5-11 for details.**

**The design of the Type 2 junction box has a single inlet/outlet, the design of the Type 3 junction has multiple inlets/outlets, the dimensions are the same for either box refer to the Site Drainage Detail Sheet drawing G-9 in Appendix 5-11 for the dimensions. The second phase of paving will require the removal and replacement of 2,560 square feet (currently in bond) of existing asphalt and an additional placement of 12,400 square feet of asphalt (Sheet No. Appendix 5-11-2). The regrading for Phase 2 asphalt placement will require that approximately 750 CY of waste material (coal, rock, etc.) be removed from the mine site and be hauled/disposed of at the waste rock site.**

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APPENDIX 5-11  
Upper Mine Yard Details

**MINE SITE GRADING & DRAINAGE - 2014**

**PHASE 2 OVERALL EXHIBIT**

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# WEST LEASE #1 BELT SUMP

**CHAPTER 7**  
**HYDROLOGY**

## 7.40 Design Criteria and Plans

### 7.4.1 General Requirements

This M&RP includes site-specific plans that incorporate minimum design criteria for the control of drainage from disturbed and undisturbed areas.

### 7.4.2 Sediment Control Measures

#### 7.4.2.1 General Requirements

**Design.** Existing sediment control measures have been designed, constructed and maintained to provide the following:

- Prevent additional contributions of sediment to stream flow or to runoff outside the permit area.
- Meet the effluent limitations defined in Section 7.5.1.
- Minimize erosion to the extent possible.

Appendix 5-11 contains design drawings and information pertaining to the paving of an area in the upper mine yard and the repair/re-paving of an adjacent area. The areas to be paved will have three segments of concrete gutter with **drop** drains/inlet boxes and a fourth drop drain/inlet box in the asphalt to collect and direct runoff to the lower mine yard.

**Appendix 5-11 contains design drawings and information pertaining to the construction of a sump (also referred to as the "West Lease #1 Belt Sump") at the entrance of the existing West Lease Beltline Tunnel. New drainage line and junction boxes will direct treated water from the sump into existing mine yard drainage culverts. A portion of the mine yard will also be paved/re-paved in the vicinity of the West Lease Portal, directly west of the ROM coal storage area (Appendix 5-11-2 drawing).**

**Measures and Methods.** The sediment control measures at the mine include practices carried out within and adjacent to the disturbed area. Sediment control methods include:

- Retention of sediment within the disturbed area;
- Diversion of runoff away from the disturbed area;
- Diversion of runoff using channels or culverts through disturbed areas to prevent additional erosion;
- Cut and fill slopes within the disturbed area will be revegetated with a quick growing vegetative cover (standard seed mix in section 3.4.1.2 minus the shrubs

include gravel and silt fences.

- The 4 East portal site consists of a pad area where a mine fan has been built. The disturbed area associated with the two portal openings at this site is 0.70 acre. Alternate sediment control at this pad consists of a containment berm, gravel and silt fencing.
- The Link Canyon Substation No. 1 facility disturbed area is 0.18 acre. This substation pad area was reclaimed in 2000. The sediment control consists of containment berms, silt fencing, and vegetation.
- The Link Canyon Substation No. 2 facility disturbed area is 0.12 acre. The sediment control consists of containment berms, gravel and silt fencing.
- The Link Canyon Portal facility disturbed area is 0.18 acre. The sediment control consists of containment berms, gravel and silt fencing.

The total area for Alternate Sediment Control Areas (ASCA) is 4.167 acres. This is approximately 13.6 percent of 30.454 acres of total disturbed area at the mine site, Link Canyon Portal and Substation No. 1 and No. 2 facility sites, and waste rock disposal site (including ASCA's and SAE's).

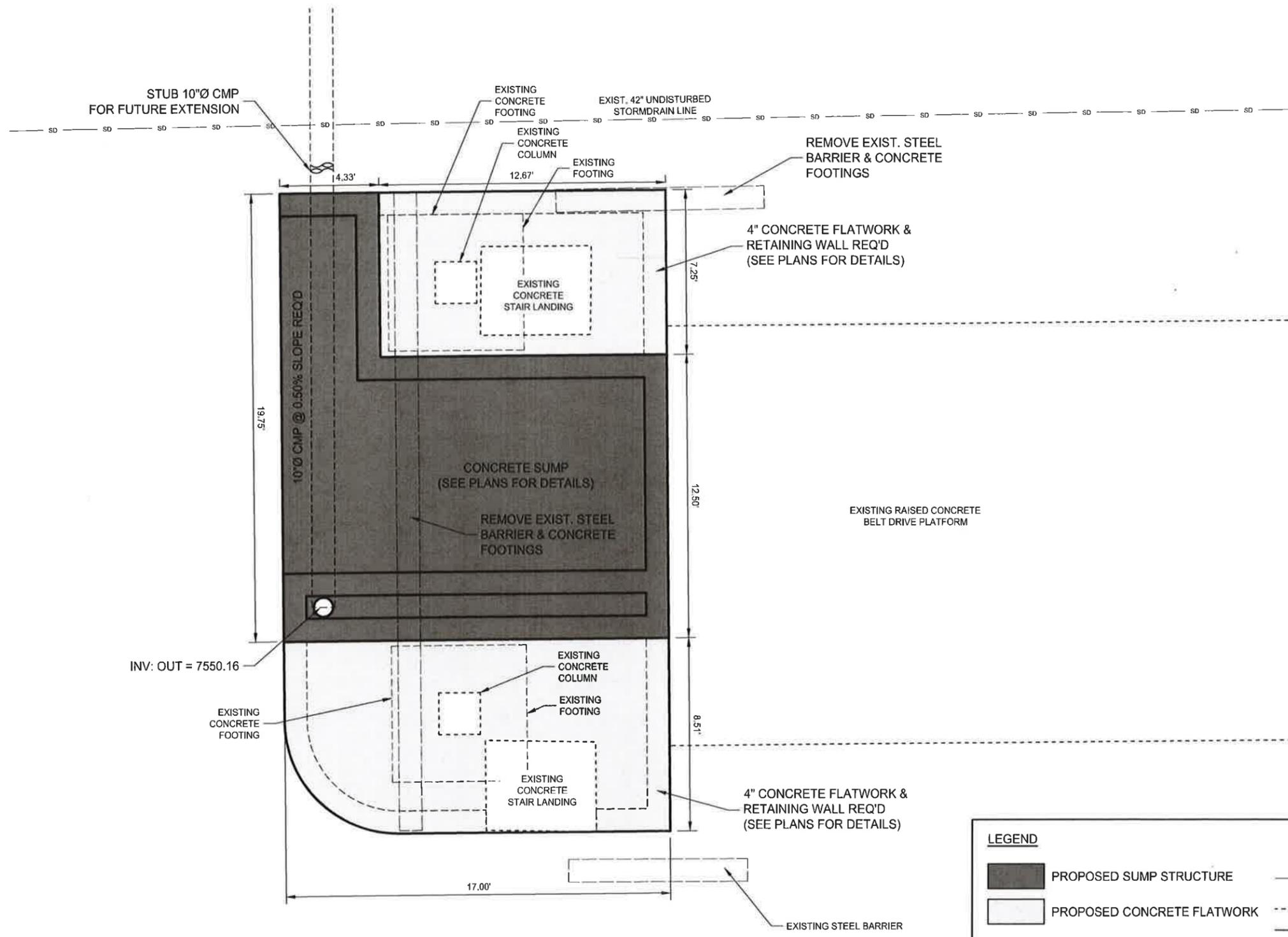
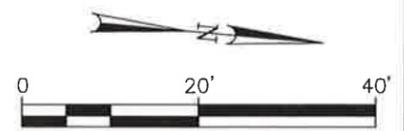
The upper yard concrete gutters and inlet boxes/drop drains will direct surface runoff into existing culverts, which discharge water into the sediment pond(s) for treatment. **There** will be not additional runoff introduced into the designed drainage system with the paving of the upper yard area. Refer to Appendix 5-11 for details of the gutters and inlet boxes.

**The West Lease #1 Belt Sump will capture and treat water from the beltline as well as from portions of the mine yard in the vicinity of the West Lease portal. Treated water from the sump will be directed through new drainage lines and junction boxes to existing mine yard drainage culverts. Refer to sheet number Appendix 5-11-2 for location of sump, drainage lines, and junction boxes. Sump design details are located in Appendix 5-11, West Lease #1 Belt Sump.**

#### **7.4.2.2 Siltation Structures**

**General Requirements.** Additional contributions of suspended solids and sediment to stream flow or runoff outside the permit area are being prevented to the extent possible using various siltation structures.

The existing siltation structures for the main facilities area, the concrete sediment trap and primary sedimentation pond, were not constructed before beginning coal mining operations. The structures were constructed upon implementation of applicable State and Federal Regulations. The overflow pond was constructed to allow for continued compliance with State and Federal Regulations. The sedimentation pond for the waste rock disposal site was constructed before the site was used. Each structure has been certified by a qualified registered professional engineer.



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LEGEND	
<span style="display: inline-block; width: 20px; height: 10px; background-color: gray; border: 1px solid black;"></span>	PROPOSED SUMP STRUCTURE
<span style="display: inline-block; width: 20px; height: 10px; background-color: lightgray; border: 1px solid black;"></span>	PROPOSED CONCRETE FLATWORK
<span style="display: inline-block; width: 20px; border-bottom: 1px dashed black;"></span>	EXISTING UNDISTURBED DRAINAGE PIPE
<span style="display: inline-block; width: 20px; border-bottom: 1px dotted black;"></span>	EXISTING EDGE OF CONCRETE
<span style="display: inline-block; width: 20px; border-bottom: 1px dashed black;"></span>	EXISTING EDGE OF ASPHALT

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

**WEST LEASE #1 BELT SUMP**

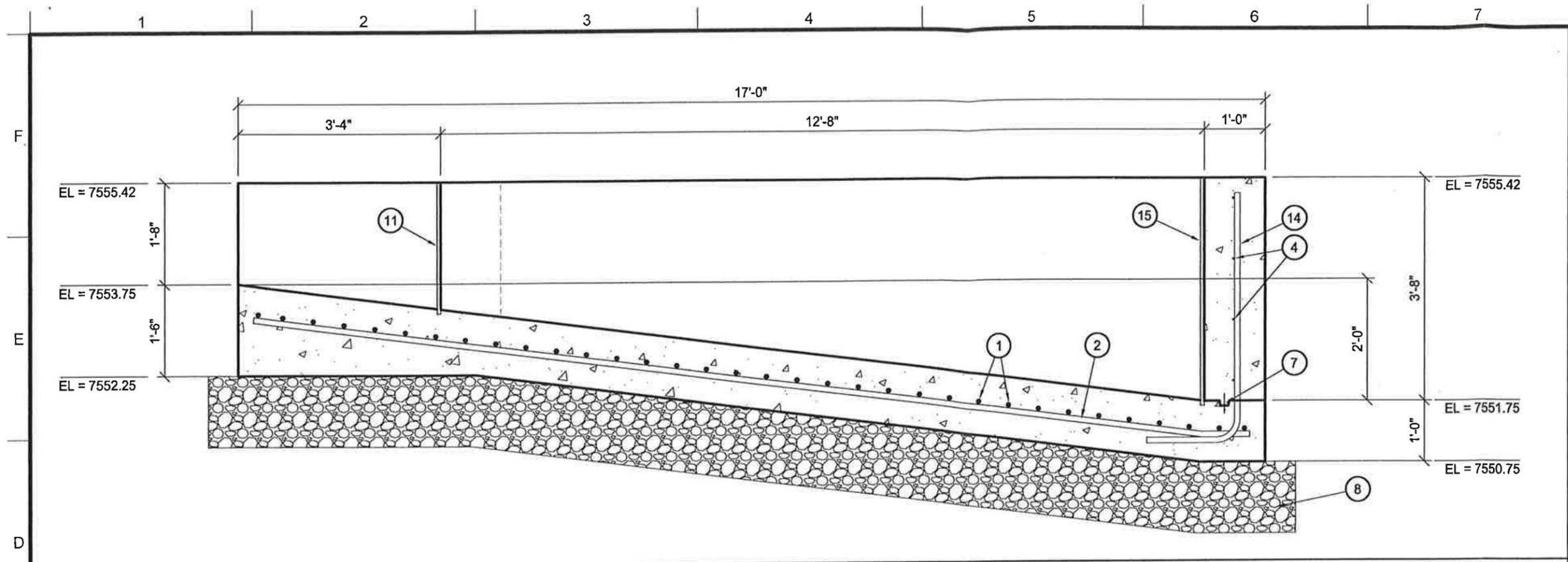
**SITE PLAN**

SCALE: 1" = 20'      DATE: 4/9/2015      DRAWN BY: T.R.B.      ENGINEER: K.T.      CHECKED BY: K.T.

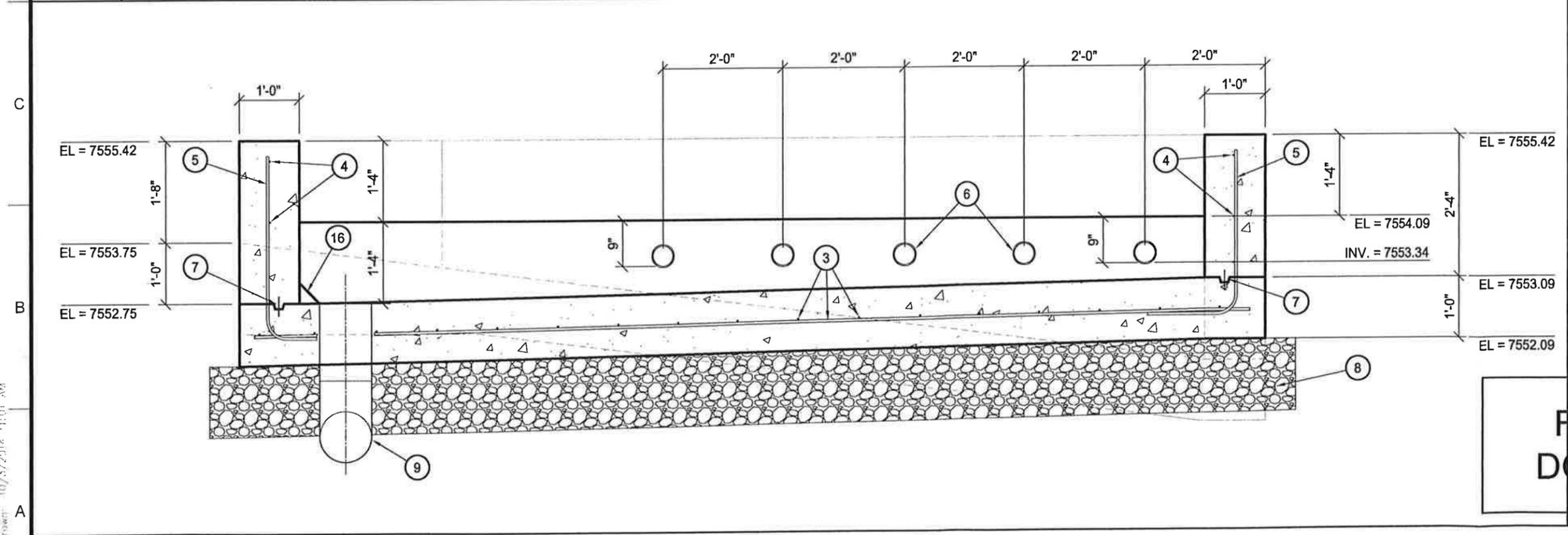
FILE NAME: H:\DRAWINGS\MRP\PLATES\APPENDIX\_5-11-3.dwg      PROJ: 0714-001

REVISIONS				
NO.	DATE	REQ. BY	DWG. BY	REMARKS

SHEET NO.  
**APPENDIX**  
**5-11-3**



**D1** CROSS SECTION  
1/2" = 1'-0"



**A1** CROSS SECTION  
1/2" = 1'-0"

**KEYNOTES**

- 1 #9 REBAR @ 6" OC
- 2 #9 REBAR @ 12" OC
- 3 #4 REBAR @ 12" OC
- 4 #4 REBAR HORIZ @ 12" OC
- 5 #4 REBAR UPRIGHT @ 12" OC
- 6 4" SCH 40 PVC
- 7 KEYWAY W/ WATERSTOP CONT
- 8 14" OF UNTREATED BASE COURSE. COMPACTED TO 96% OF MAXIMUM DENSITY DETERMINED BY ASTM-1557
- 9 10"Ø PIPE. STUB OUT TO TIE INTO 10"Ø CMP STORMDRAIN LINE.
- 10 #9 REBAR UPRIGHT @ 12" OC
- 11 PLATE, 3/4" x 2'-2" x 7'-7"
- 12 4" CONCRETE FLATWORK
- 13 #3 REBAR @ 12" OC EACH WAY
- 14 #9 REBAR UPRIGHT @ 12" OC
- 15 PLATE, 3/4" x 3'-8" x 8'-8"
- 16 SLOPE TO PIPE

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**FINAL BID DOCUMENT**

**Canyon Fuel Company, LLC**  
SUFACO Mine  
597 South SR 24 - Salina, UT 84654  
(435) 286-4860 Phone  
(435) 286-4499 Fax

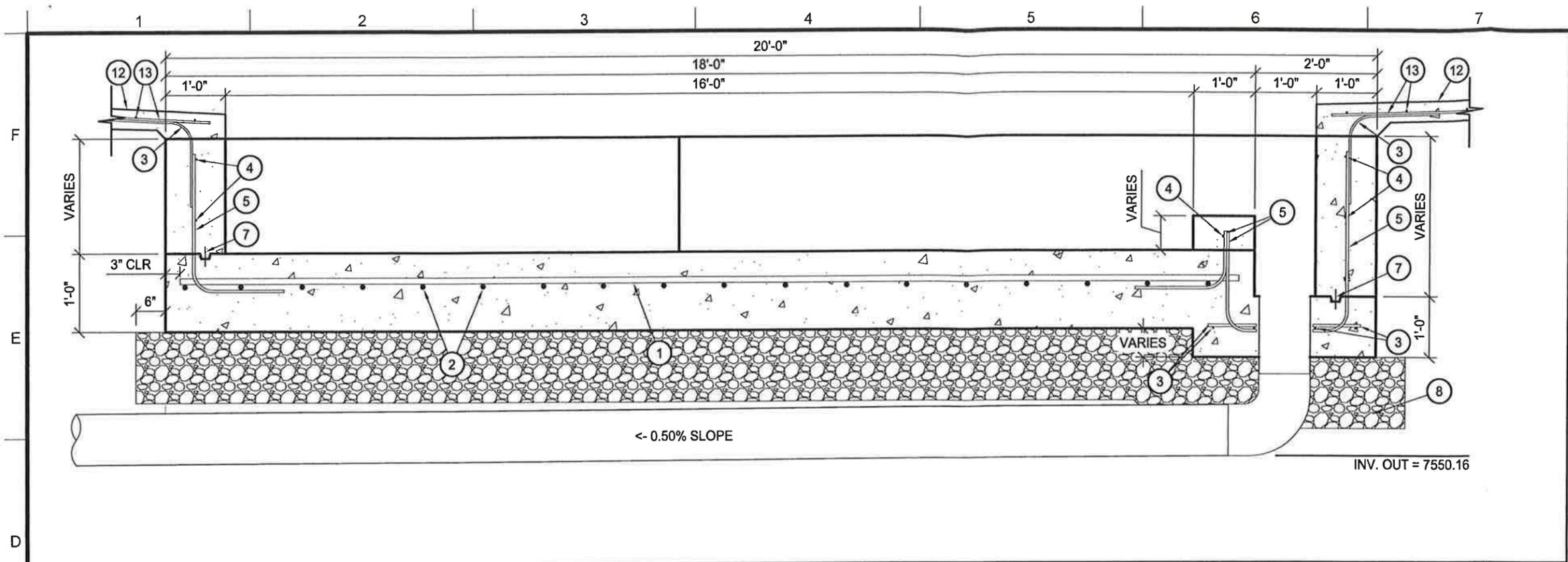
NO.	DATE	REQ. BY	DWG. BY	REVISIONS	REMARKS

**SUFACO MINE**  
**WEST LEASE #1 BELT SUMP**  
**DETAIL SHEET**

SCALE: 1/2" = 1'-0" DATE: 10/3/2014 PROJ: 0714-001  
DRAWN BY: T.R.B. ENGINEER: K.T. CHECKED BY: K.T.

SHEET NO.  
**C501**

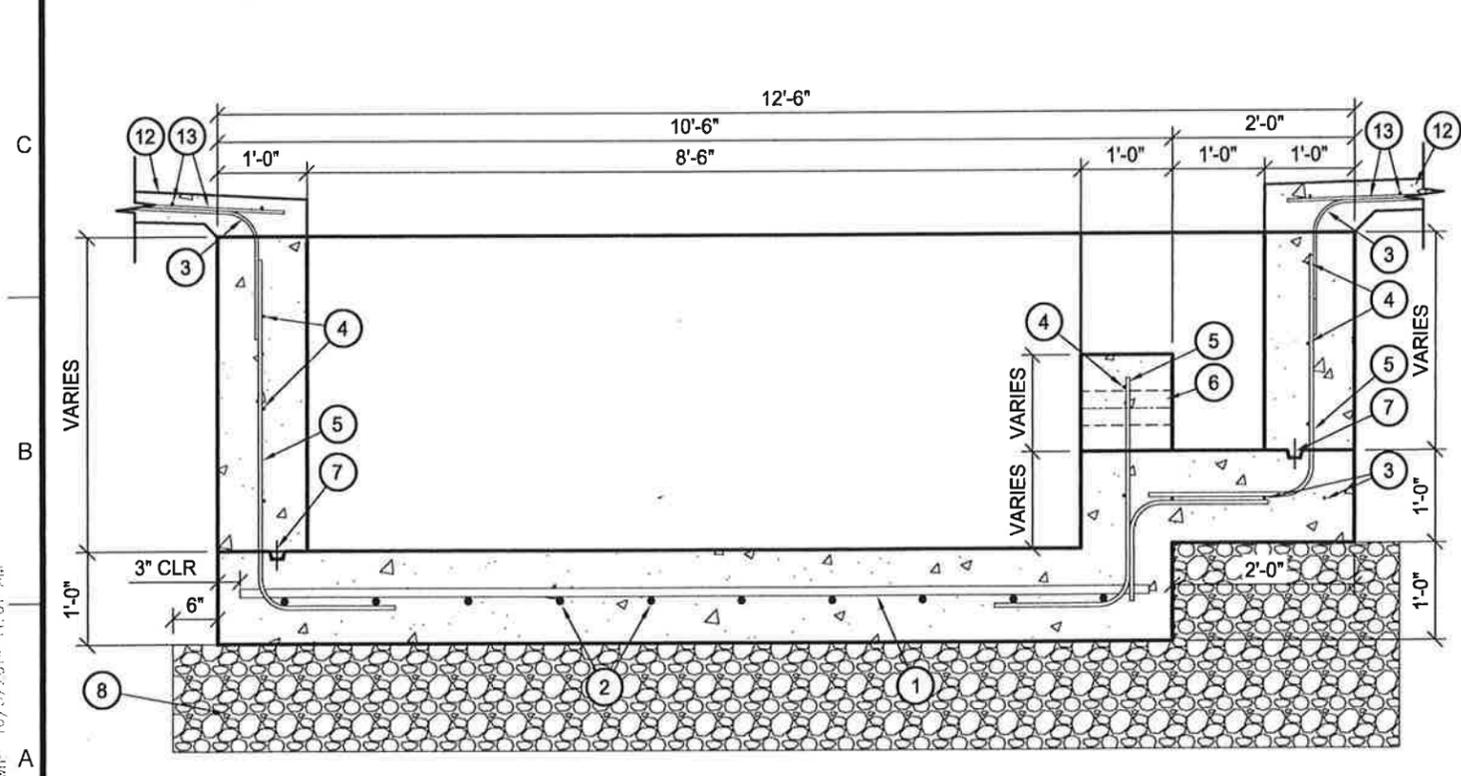
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- ### KEYNOTES
- ① #9 REBAR @ 6" OC
  - ② #9 REBAR @ 12" OC
  - ③ #4 REBAR @ 12" OC
  - ④ #4 REBAR HORIZ @ 12" OC
  - ⑤ #4 REBAR UPRIGHT @ 12" OC
  - ⑥ 4" SCH 40 PVC
  - ⑦ KEYWAY W/ WATERSTOP CONT
  - ⑧ 14" OF UNTREATED BASE COURSE. COMPACTED TO 96% OF MAXIMUM DENSITY DETERMINED BY ASTM-1557
  - ⑨ 10"Ø PIPE. STUB OUT TO TIE INTO 10"Ø CMP STORMDRAIN LINE.
  - ⑩ #9 REBAR UPRIGHT @ 12" OC
  - ⑪ PLATE, 3/4" x 2'-2" x 7'-7"
  - ⑫ 4" CONCRETE FLATWORK
  - ⑬ #3 REBAR @ 12" OC EACH WAY

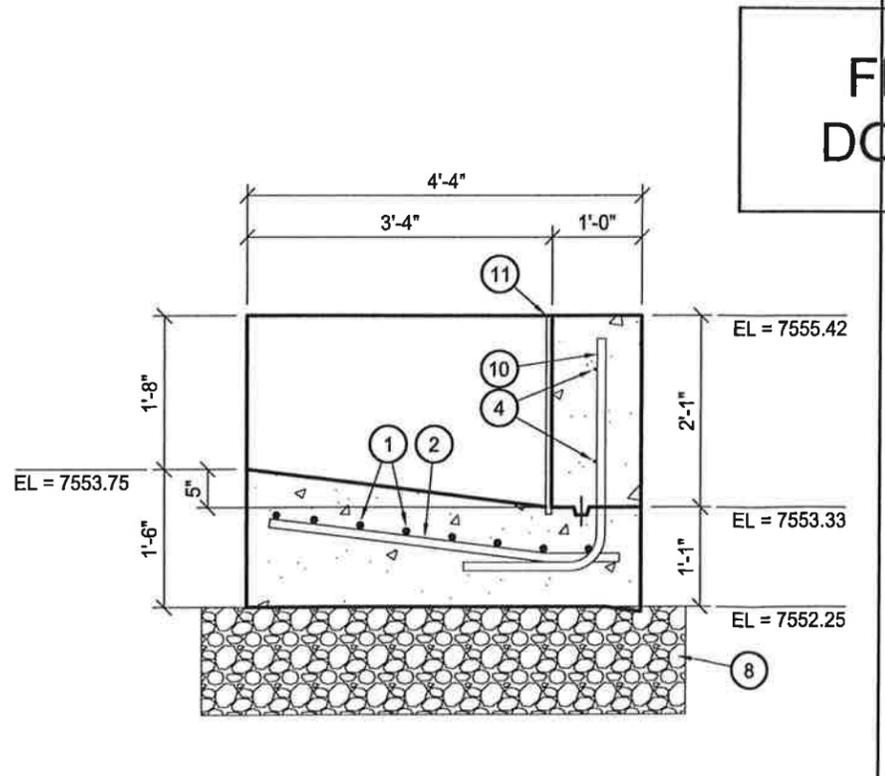
D1 CROSS SECTION

1/2" = 1'-0"



A1 CROSS SECTION

1/2" = 1'-0"



A6 CROSS SECTION C-C

1/2" = 1'-0"

**FINAL BID DOCUMENT**

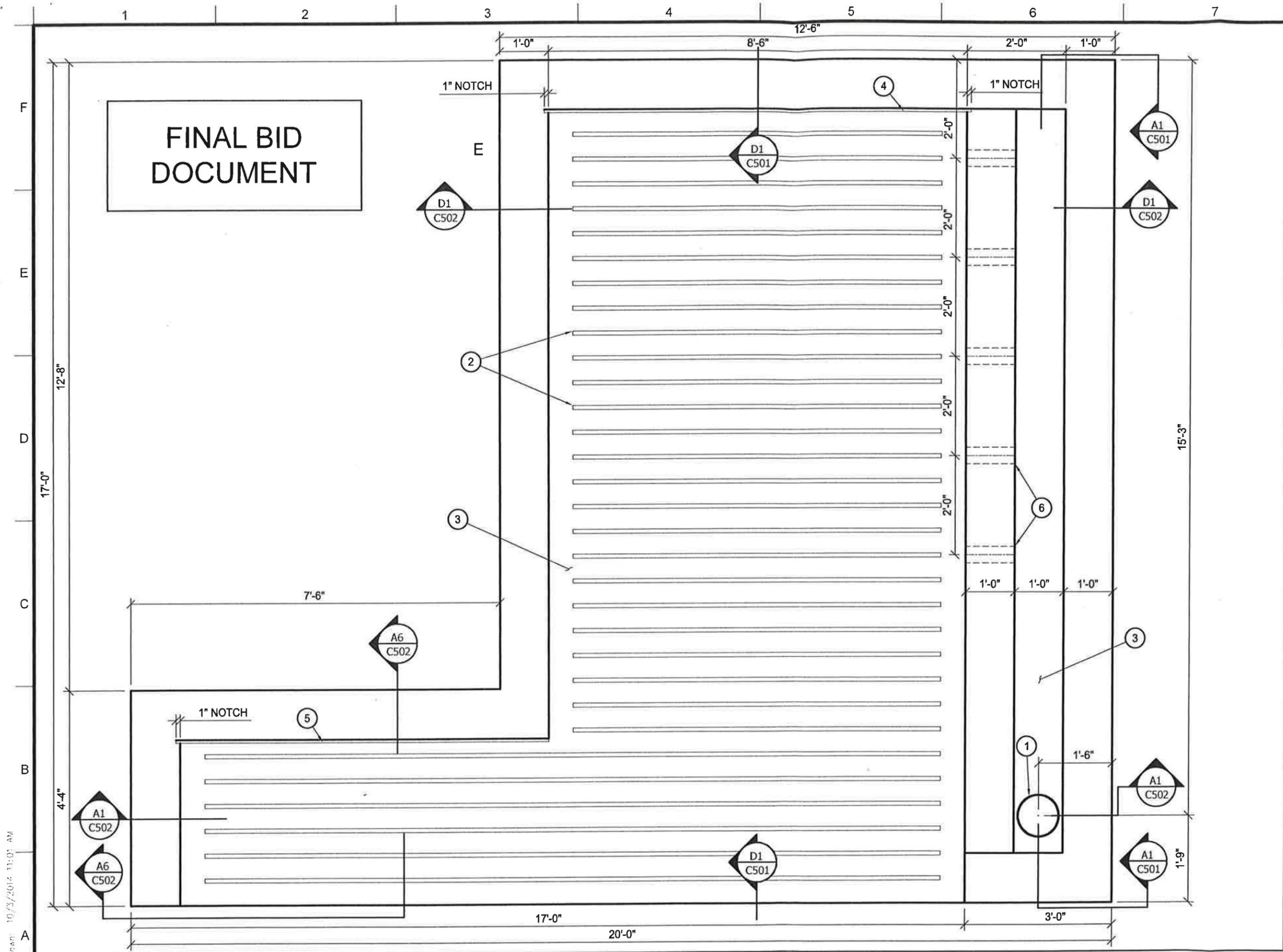
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Canyon Fuel Company, LLC  
 SUFCO Mine  
 597 South SR 24 - Salina, UT 84654  
 (435) 286-4880 Phone  
 (435) 286-4499 Fax

NO.	DATE	REQ. BY	DWG. BY	REMARKS

SUFCO MINE  
 WEST LEASE #1 BELT SUMP  
 DETAIL SHEET

SHEET NO.  
**C502**



**KEYNOTES**

- ① 10"Ø PIPE. STUB OUT TO TIE INTO 10"Ø CMP STORMDRAIN LINE.
- ② 1" x 1" FRICTION TREAD 6" OC
- ③ 12" CONCRETE SLAB - SEE DETAILS
- ④ PLATE, 3/4" x 3'-8" x 8'-8"
- ⑤ PLATE, 3/4" x 2'-2" x 7'-7"
- ⑥ 4" SCH 40 PVC

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NO.	DATE	REQ. BY	DWG. BY	REMARKS

**SUFACO MINE**  
**WEST LEASE #1 BELT SUMP**  
**SUMP - PLAN VIEW**

SCALE: 1/2" = 1'-0"    DATE: 10/3/2014    PROJ: 0714-001  
 DRAWN BY: T.R.B.    ENGINEER: K.T.    CHECKED BY: K.T.    FILE NAME: M:\PROJ\0714-001\dwg\SUMP\_TB.dwg

SHEET NO.  
**C201**

**A1**    **PLAN VIEW**

1/2" = 1'-0"

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