Canyon Fuel Company, LLC
A Subsidiary of Bowie Resource Holdings, LLC

Skyline Mine
Gregg A. Galecki, Environmental Engineer
HC35, Box 380
Helper, Utah 84526
(435) 448-2636
Fax (435) 448-2632

C/007/0005
Received 10/23/2014
Task ID #4708

October 20, 2014

Mr. Daron R. Haddock
Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114-5801

RE: Rail Loadout Road Rehabilitation and Asphalt – Construction approval, Canyon Fuel Company, LLC, Skyline Mine, C/007/0005, Task #4687

Dear Daron:

Attached to this letter is pertinent information addressing modifications to the Skyline Mine M&RP to include rehabilitation of an access road that was previously eliminated, and an upgrading of the primary access road to include asphalt. Based on an anticipated increase in truck-loading at the Rail Loadout beginning in 2015, the Truck-loop is being extended to include the west entrance of the Rail Loadout facility. To reduce sediment track-out from the site, and improve sediment control within the site, approximately 1675 linear feet of road will be upgraded with additional asphalt. The asphalt project will include approximately 375 linear-feet road that will have an additional 3-inches of asphalt, with the remaining 1300 linear-feet of road being covered with 5-inches of asphalt. To connect the western section of the facility to the eastern section of the site, a previously used section of the road needed to be rehabilitated. No topsoil or subsoil need to be relocated during rehabilitation of the road section. The permit modification consists of: 1) referencing the paving in the text in Section 3.2; 2) updating Plate 3.2.1-3_REV29 illustrating the asphalt; 3) adding Plates 3.2.1-3a through -3d which illustrate detailed construction drawings; and 4) the appropriate adjustments to the Reclamation bond to accommodate demolition and disposal of the asphalt.

Attached to this cover letter are completed C1 and C2 forms, redline-strikeout versions of M&RP modifications in Section 3.2, four (4) plates; and three (3) bond pages in Section 4.3,. Two (2) hard copies of the information will be submitted at final approval.

If you have any questions regarding this information, please give me a call at (435) 448-2636.

Sincerely:

Gregg A. Galecki
Canyon Fuel Company, LLC.
Environmental Engineer – Skyline Mines

Enclosures

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Canyon Fuel Company, LLC
Mine: Skyline Mine **Permit Number:** C/007/005
Title: Rail Loadout Road Rehabilitation and Asphalt
Description, Include reason for application and timing required to implement:
Surface facility modification at Rail Loadout to accommodate increased truck traffic

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.

Carl Winters
Print Name

Carl W. Winters 10/20/14
Sign Name, Position, Date

Gen. Mgr.

Subscribed and sworn to before me this 20th day of Oct, 20 14

Kathleen Atwood
Notary Public

My commission Expires: 12-02, 20 15
Attest: State of Utah } } ss:
County of Carbon

KATHLEEN ATWOOD
NOTARY PUBLIC-STATE OF UTAH
COMMISSION# 650015
COMM. EXP. 12-02-2015

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

Form DOGM- C1 (Revised March 12, 2002)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Canyon Fuel Company, LLC
Mine: Skyline Mine **Permit Number:** C/007/005
Title: Rail Loadout Road Rehabilitation and paving

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

Add	Replace	Remove	DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐	☒	☐	Section 3.2 page 3-30(a)
☐	☒	☐	Section 3.2, Plate 3.2..1-3_REV29
☒	☐	☐	Section 3.2 Plates 3.2.1-3a through -3d (four new plates)
☐	☒	☐	Section 4.3 Cost Estimate and Performance Bond - Total Bond Amount page, Demolition Costs Summary Page, Demolition Costs - PavementRailLoudout 34 (3 total pages)
☐	☐	☐	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining
Information has been submitted electronically. Two (2) paper copies of the information will be submitted at final approval.	

Due to the severe winter conditions most of the water conveniences become iced up and are not maintained during the winter months. During the spring thaw water is directed back into the water ways as they slowly thaw out.

Coal Storage and Load out Facilities

The enclosed coal storage, open coal storage, and the rail loadout facilities are shown in plan view on Map 3.2.1-3. Maps -3a through 3d were added in 2014 to accommodate increased truck traffic through the yard. The increased traffic required upgrading and asphalting of the existing primary access road and a rehabilitation of a section of road connecting the upper portion of the site to the lower area adjacent to the silos.

Facilities within this area consist of two 15,000-ton coal storage silos, an open coal storage area, the unloading facilities for the overland pipe conveyor (discussed in subsection 3.2.3), and a rail car load-out for unit trains. A

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Skyline Mine
Added Rail Loadout Pavement
_C.Parker

Reclamation Cost Estimate
Required Bond Amount

Revised October 2014

Bonding Calculations

Direct Costs		
Subtotal Demolition and Removal	$2,046,009	
Subtotal Backfilling and Grading	$1,078,911	
Subtotal Revegetation	$912,169	
Direct Costs	$4,037,089	
Indirect Costs		
Mob/Demob	$403,709	10.0%
Contingency	$201,854	5.0%
Engineering Redesign	$100,927	2.5%
Main Office Expense	$274,522	6.8%
Project Management Fee	$100,927	2.5%
Subtotal Indirect Costs	$1,081,939	26.8%
Total Cost 2006	$5,119,028	
Number of years		4
Escalation Factor		1.005
Escalation	$95,397	
Reclamation Cost Escalated	$5,214,425	
Bond Amount (rounded to nearest $1,000) 2009 Dollars	$5,214,000	
Posted Bond September 19, 2006	$5,137,000	
Difference Between Cost Estimate and Bond	-$77,000	
Percent Difference	-1.48%	

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
	Pavement Rail Loadout 34																			
	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																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition	Pavement Removal 3"																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.92	/CY					4727						SF		116	CY	1146
	Concrete's Vol. Demolished							0.66								FT	1.3	150	CY	
	Loading Cost	Front end loader track 3 CY	31 23 16 42 1300	1.01	/CY													150	CY	152
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 18 0320	2.92	/CY													150	CY	438
	Disposal Costs	Disposal on site	02 41 16 17 4200	9.00	/CY													150	CY	1350
	Subtotal																			3086
	Asphalt Demolition	Pavement Removal 3"																		
	Demolition Cost	Disposal at approved facility																		
	Asphalt's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02-41-13-17-5010	4.81	/CY													142	CY	685
	Disposal Costs			35	Ton					15371		0.61				Ton		87	Tons	3045
	Subtotal																			3730
	Paving from W.entrance to Silos																			
	Asphalt Demolition	Pavement Removal - 5" entire length	02 41 13.1705050	9.4	SY					4592						SY		4592	SY	43165
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost	Front End Loader 3 CY	31 23 16 42 1300	2.05	CY													241	CY	494
	Transportation Cost																			
	Disposal and Transportation Costs	Disposal at approved Facility (ECDC)		40	Ton						579	1.35				Ton		782	Tons	31266
	Subtotal																			
	Total																			44278

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
	Shop Warehouse 01																			367595
	Administration Bld 02																			25308
	Mine No 1 Transfer Tower 03																			35853
	BC 2 Drive House 04																			8893
	BC 3 Drive House 05																			38270
	Crusher Raw Coal 06																			18741
	Truck Loadout 07																			6894
	Railcar Loadout 08																			21764
	Conveyors 8 total 09																			87798
	Water Tanks Two 10																			6084
	Pump House 11																			1233
	Well House Three 12																			4428
	Water Treatment Bld 13																			16600
	Misc Storage Bld 14																			3809
	Overland Conveyor 15																			88532
	Guard Rail 16																			18300
	Rock Dust Bld 17																			5835
	Overland Dust Collector 18																			1248
	Substation 19																			1980
	Power Line 20																			4605
	Cap Magazine 21																			33
	Fuel Storage 22																			2954
	Propane Tanks 23																			527
	Stacking Tube 24																			5516
	Reclaim Tunnel 25																			45632
	Slope Proctection Apron 26																			17532
	Concrete Lined Ditch 27																			485
	Raw Coal Silo 28																			15831
	Parking Area Middle 29																			2451
	Truck Loadout Foundation 30																			233
	Road Pad Lower 31																			3796
	Silo Rail Loadout 32																			140333
	Loadout Foundation RR 33																			5769
	Pavement Rail Loadout 34																			44278
	Steel 35																			6975
	James Canyon 36																			142752
	Culvert Backfilling 37																			6132
	Channel Construction 38																			529279
	Equipment 39																			245525
	Portal Face Door 40																			5823
	Concrete Building 41																			2158
	Winter Quarters 42																			58225
	Total																			2046009

LEDGEND

DISTURBED AREA BOUNDARY: (AREA WITHIN WHICH RECLAMATION MUST TAKE PLACE)	
ALTERNATIVE SEDIMENT CONTROL AREA: (SEDIMENT CONTROLED WITH STRAW BALES OR OTHER TECHNEQUES)	
DRAINAGE DITCH OR PATH:	
FRENCH DRAIN:	
AREA TRIBUTARY TO SEDIMENTATION POND:	
SPECIAL EXEMPT AREAS:	
BEGINING OR END OF DITCH	DITCH SLOPE CHANGE

NOTES

(1.) SEE DRAWINGS 4..4.2-1C AND 4.4.2-1D FOR THE RECLAMATION PLAN AND CROSS SECTIONS.

(2.) THE DISTURBED AREA ON THIS MAP IS 13.82 ACRES.

(3.) AREAS THAT WERE USED IN THE SEPT. 1984 EARTH FAX ENGINEERING STUDY WHICH DEFINES THE REQUIRED SEDIMENTATION POND VOLUME AND RETENTION TIME ARE SHOWN ABOVE WITH ARROWS DEFINING THE AREA. BOUNDRIES.

(4.) NUMEROUS DEVICES SUCH AS PAVEMENT, TEMPORARY DRAINAGE AND GRADING CONTROLS, WHICH ARE NOT SHOWN ON THIS DRAWING ARE USED AS NECESSARY TO DIRECT RUNOFF TO THE PERMANENT DIVERSION FACILITIES SHOWN ABOVE.

NO.	DATE	REVISION	DRWN	APPR
1	9-25-89	MINOR CHANGES TO LEGEND AND SPEC. EXEMPT AREAS	WS	
2	9-30-89	EARHTFAX STUDIE AREAS ADDED	WS	
3	11-19-89	NOTE ADDED: TEMP DRAINAGE REMOVED	WS	
4	11-27-89	MINOR CHANGES TO NOTES AND DITCHES	WS	
5	4-11-90	MINOR CHANGES TO AREA 20	WS	WWS
6	1-30-90	ADDED TEMP TRUCK REPAIR BLDG & STORAGE AREA	KBL	WWS
7	7-29-91	UPDATED SURFACE FACILITIES	KBL / KWZ	WWS
8	9-24-91	UPDATED SURFACE FACILITIES	KBL / KWZ	WWS
9	10-11-91	ADD OPEN COAL STORAGE AREA	KBL / KWZ	WWS
10	12-5-91	ADDED OVERLAND CONVEYOR	KWZ	WWS
11	4-14-92	UPDATE SURFACE FACILITIES	KWZ	WWS
12	4-22-92	CHANGE PERMIT BOUNDARY	KWZ	WWS
13	6-10-92	ADDED OVERLAND CONVEYOR INFO AND UPDATED BC-13A INFO	KWZ	WWS
14	7-7-92	CHANGE CD-6 & DD9 ELIMINATED CD-7 & CD-8	KWZ	WWS
15	9-3-92	ADDED NEW CONTOURS, B12A, DD-9, CONCRETE CHANNEL, SEDIMENT TRAP, COAL STORAGE	KWZ	WWS
16	9-15-92	BNDRY OF GOB DISPOSAL AREA ADDED	KWZ	WWS
17	9-25-92	ADDED RIPARIAN REFERENCE AREA	KWZ	WWS
18	4-23-93	ADDED PERMIT AREA, DD-13, 13A , 14, ENLARGED SEDIMENT POND	KWZ	WWS
19	6-2-93	ADD CD-13, DIRT BERM, CHANGED COAL BNDRY	KWZ	WWS
20	9-28-93	ADDED CD-14	KWZ	CW
21	10-21-93	ADDED CD-5 EXTENSION AND SEDIMENT TRAP -1	KWZ	
22	2-8-94	ADD BC-17 CONVEYOR	KWZ	
23	12-1-94	ADD PRIMARY ROAD LOCATION	RM	JTP
24	7-17-96	ADD CONCRETE PAD AND DD-15	RM	RJB
25	12-9-97	EXTENDED DD-12	GT	JTP
26	8-3-09	ADDED ASPHALT AROUND SILOS	ARB	CWW
27	6-28-10	ADDED ASPHALT AND CONCRETE TO RAILROAD ENTRANCE AND SR96	ARB	CWW
28	10-10-13	REMOVED NON-FUNCTIONING SILT FENCE BY LOADOUT BUILDING	GAG	

		DATE
DESIGNED BY	K. ZOBEEL W. SHRIVER	7-89
DRAWN BY	A. GUYMON	7-89
CHECKED BY	TCH 7-89	
APPROVED BY	KLU 7-89	
APPROVED BY		
APPROVED BY		

PROFESSIONAL SEAL

CAD FILE: P:\PERMITS\SKY\MRP Approved\drawings\3.2.1-3.DWG

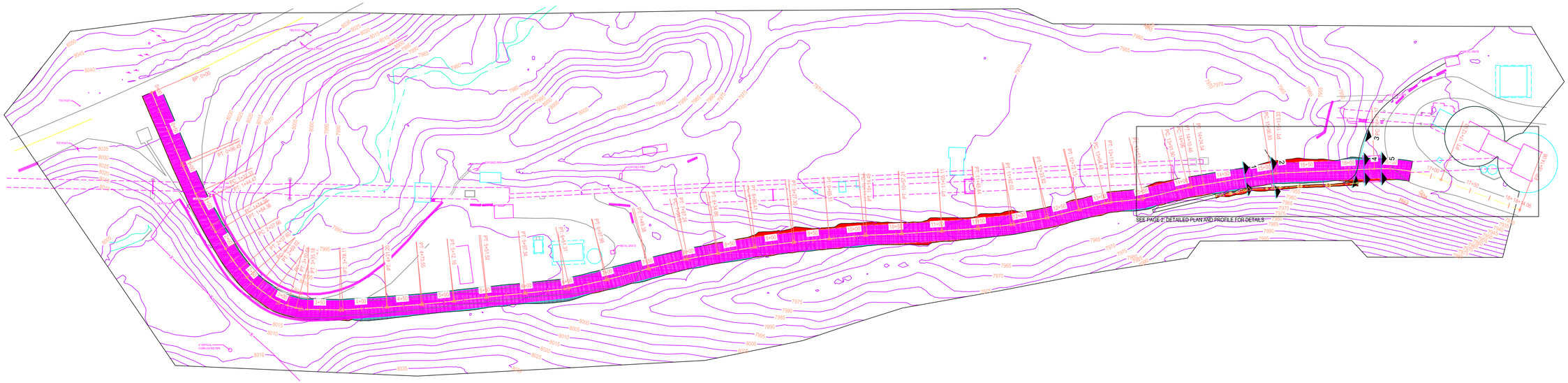
LOADOUT FACILITIES

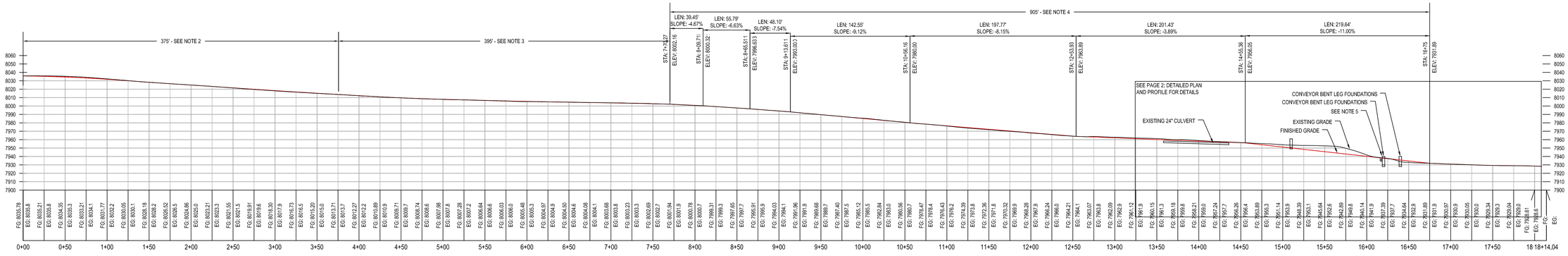
DRAINAGE AND PERMIT BOUNDARY MAP

Canyon Fuel Company, LLC
Skyline Mines

P.O. BOX 380 HELPER, UTAH 84526 435-448-6463

DATE: 07-19-01	CK.BY: G. TAYLOR	REVISION: 28
SCALE: 1" = 50'	DR.BY: J. PORTER	
DWG. NO.: 3.2.1-3		





NOTES:

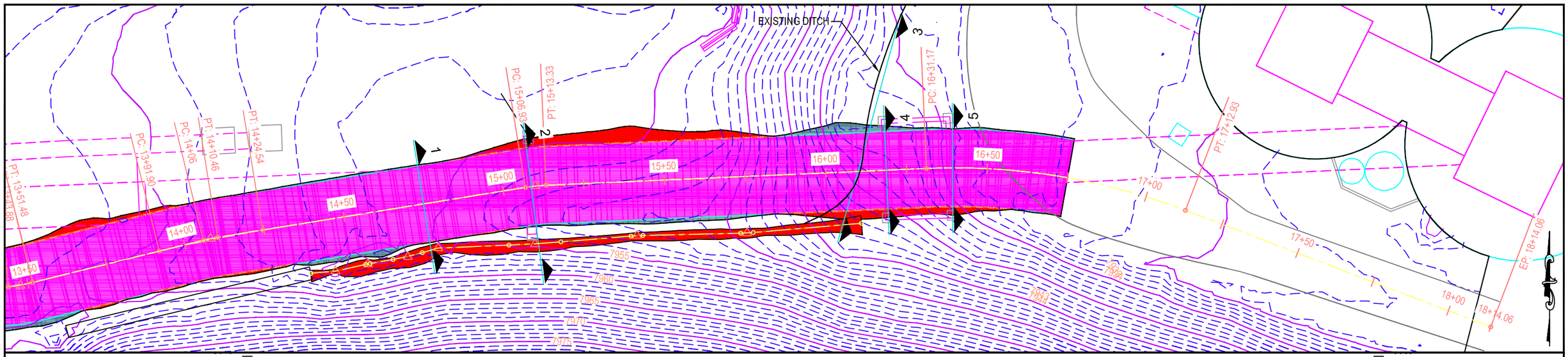
1. INTERSECTION AT STATION 0+00 TO BE CLEANED, TACKED AND OVERLAYED WITH 3 INCHES OF ASPHALT.OVERLAY ASPHALT TO TIE INTO EXISTING ROAD.
2. STATIONS 0+00 TO 3+75: ROAD TO FOLLOW EXISTING CENTERLINE, GRADE AND WIDTH. EXISTING WIDTH IS APPROXIMATELY 27 FEET. EXISTING ASPHALT TO BE CLEANED, TACKED AND 3 INCHES OF ASPHALT OVERLAY TO BE PLACED.
3. STATIONS 3+75 TO 7+70: EXISTING DIRT ROAD TO FOLLOW EXISTING CENTERLINE AND GRADE. WIDTH IS TO BE CUT TO 24 FEET. ROAD TO BE OVER EXCAVATED 13 INCHES. 8 INCHES OF COMPACTED ROAD BASE TO BE PLACED. 5 INCHES OF ASPHALT TO BE PLACED.
4. STATIONS 7+70 TO 16+75: EXISTING DIRT ROAD TO BE GRADED TO SURVEYED CENTER LINE AND GRADE. WIDTH TO BE CUT TO 24 FEET. ROAD TO BE OVER EXCAVATED 13 INCHES. 8 INCHES OF COMPACTED ROAD BASE TO BE PLACED. 5 INCHES OF ASPHALT TO BE PLACED.
5. STATION 16+18: NEW 24" CORRUGATED CULVERT AS SUPPLIED BY SKYLINE MINE TO BE INSTALLED. CULVERT SIZED TO MATCH EXISTING CULVERT LOCATED DOWNSTREAM AT CD-14.
6. STATION 16+75: ROAD INTERSECTION TO BE GRADED ON ALL SIDES WITH SMOOTH ASPHALT TIE IN.
7. NATIVE CUT MATERIAL MAY BE HAULED TO SKYLINE MINE WASTE ROCK SITE APPROXIMATELY 0.6 MILES SOUTH EAST OF SCOFIELD. ANY CUT ASPHALT OR CONCRETE MUST BE HAULED TO APPROVED DISPOSAL SITE. CUT TOP SOIL TO BE PLACED IN APPROVED TOP SOIL STORAGE AREA AT THE SKYLINE MINE SITE.
8. DITCH TO BE INSTALLED ALONG SOUTH SIDE OF NEW ROAD SECTIONS AS NEEDED. DITCH DETAILS FOUND ON DRAWING NUMBER 3.2.1-3d.

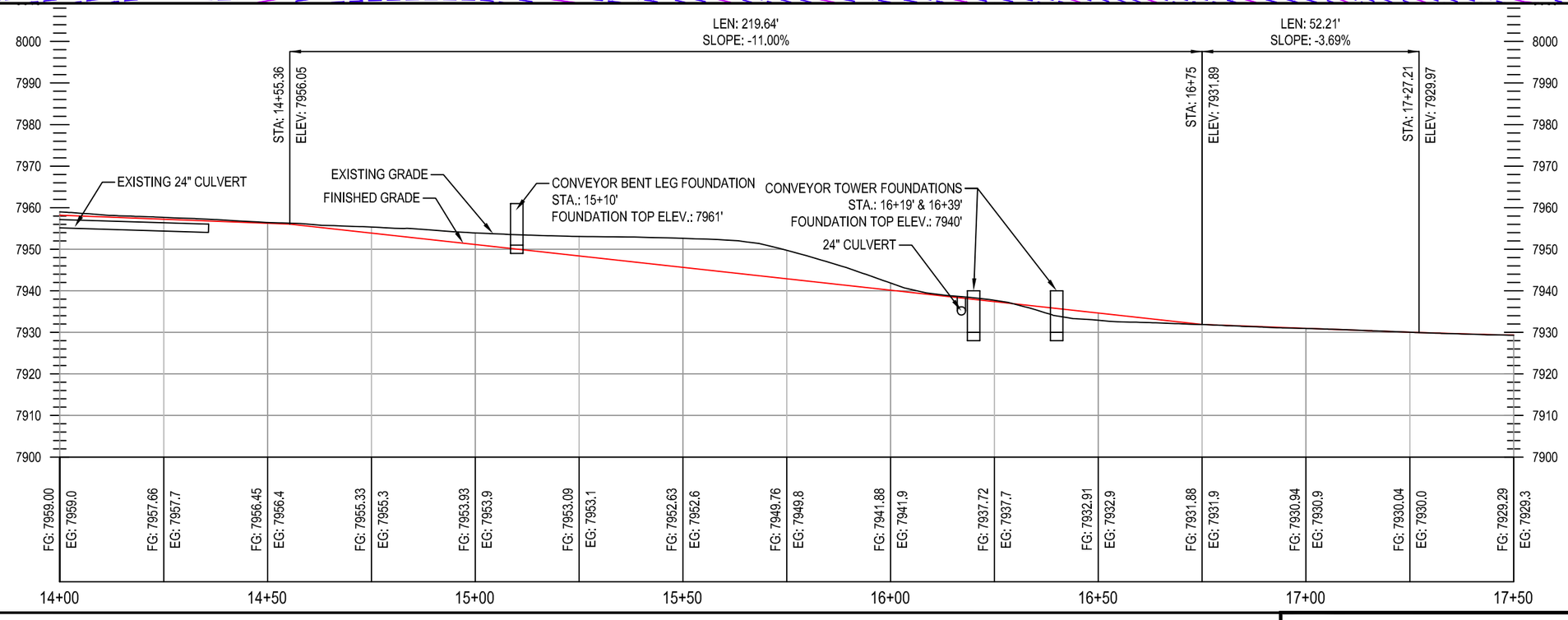
RAIL LOADOUT
WEST TRUCK LOOP ACCESS ROAD
GENERAL PLAN AND PROFILE

Canyon Fuel Company, LLC
Skyline Mines

HCR 35 BOX380, HELPER, UT, 84526
435-448-2632

DWG. NO.: 3.2.1-3a	DATE: 9/29/2014	CK.BY:	REVISION: 00
CAD FILE: P:\PERMITS\SKY\MRP APPROVED\DRAWINGS\CHAPTER 2 PLATES\3.2.1-3a	SCALE: 1" =60'	DR.BY: CBROWN	10/20/2014





NOTES & SAMPLE LINE DESCRIPTION:

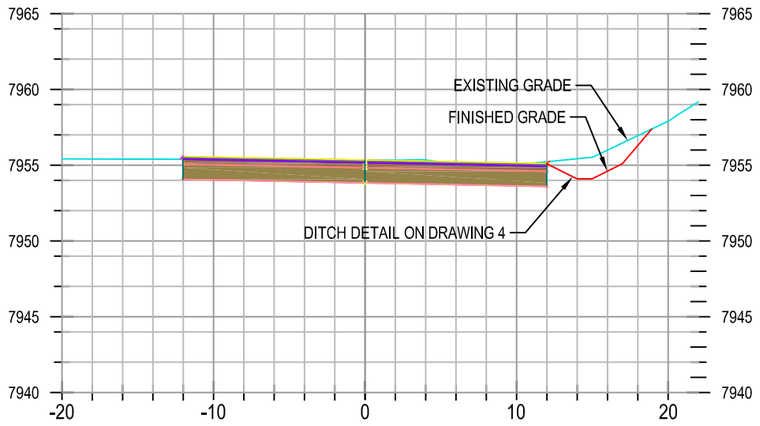
1. SAMPLE LINE 1: TYPICAL ROAD PROFILE
2. SAMPLE LINE 2: SINGLE BENT LEG
3. SAMPLE LINE 3: FUTURE 24" CULVERT
4. SAMPLE LINE 4: WEST LEG SET OF CONVEYOR TOWER
5. SAMPLE LINE 5: EAST LEG SET OF CONVEYOR TOWER
6. FOR SAMPLE LINE SECTION DETAILS SEE PLATE 3.2.1-3c, "SECTION VIEWS"
7. DITCH TO BE INSTALLED ALONG SOUTH SIDE OF NEW ROAD SECTIONS AS NEEDED. ROAD AND DITCH DETAILS ARE FOUND ON PLATE 3.2.1-3d

RAIL LOADOUT
WEST TRUCK LOOP ACCESS ROAD
PLAN AND PROFILE

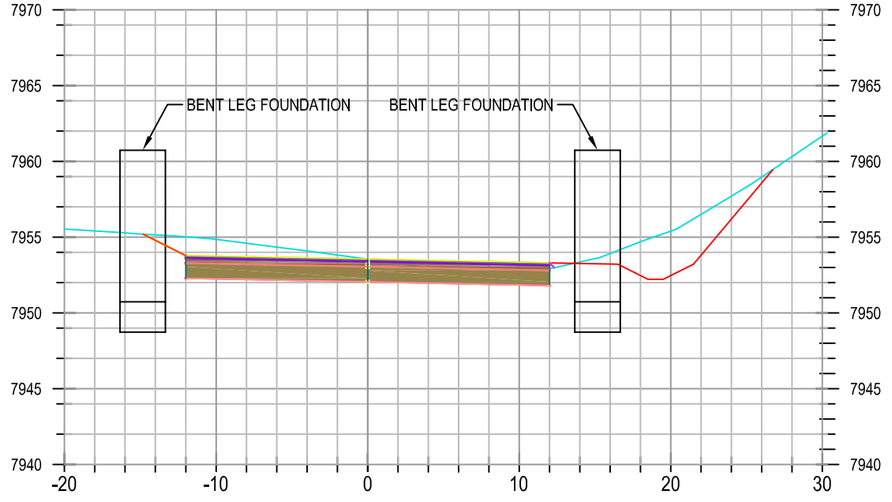
Canyon Fuel Company, LLC
Skyline Mines

HCR 35 BOX380, HELPER, UT, 84526 435-448-2632	DATE: 9/29/2014	CK.BY: TPOULSEN	REVISION: 00
DWG. NO.: 3.2.1-3b	SCALE: 1" = 30'	DR.BY: CBROWN	10/20/2014
CAD FILE: P:\PERMITS\SKY\MRP APPROVED\DRAWINGS\CHAPTER 2 PLATES\3.2.1-3b			

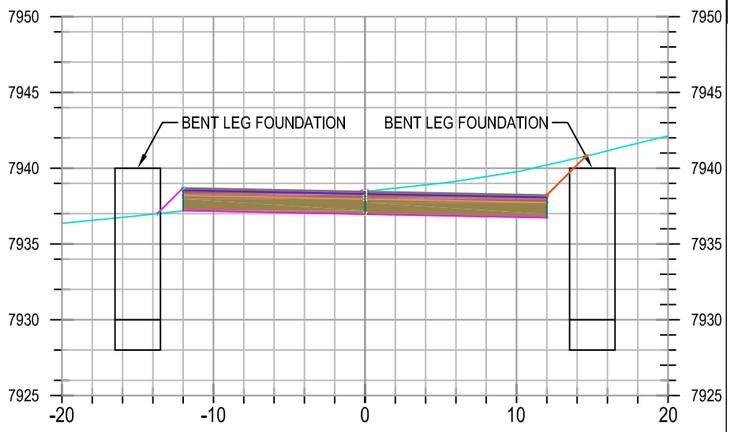
SAMPLE LINE 1
TYPICAL CUT
STATION 14+75



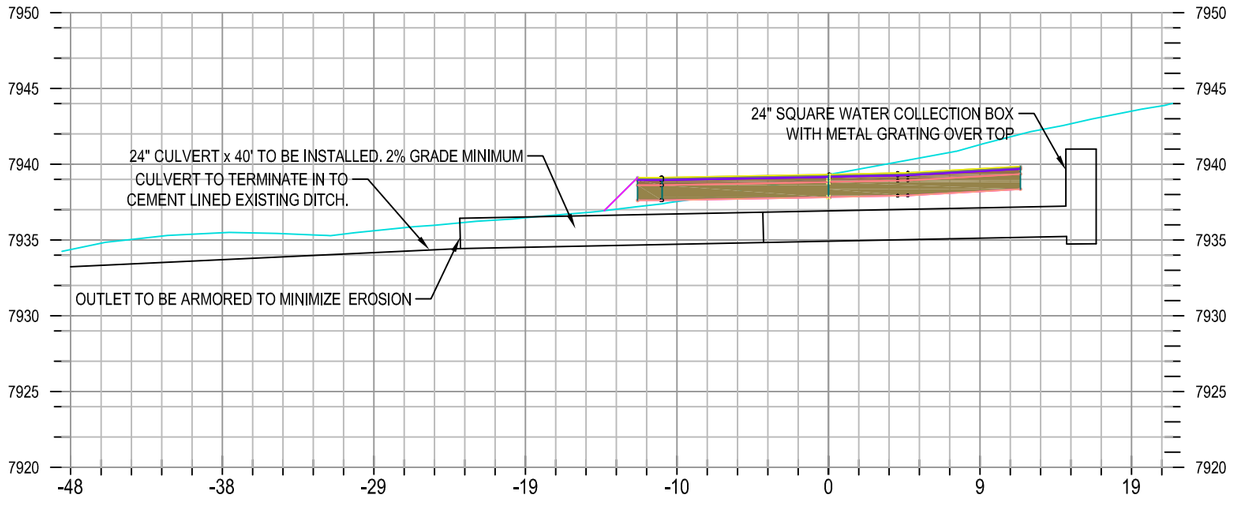
SAMPLE LINE 2
Single Bent Leg Section Views
STATION 15+09



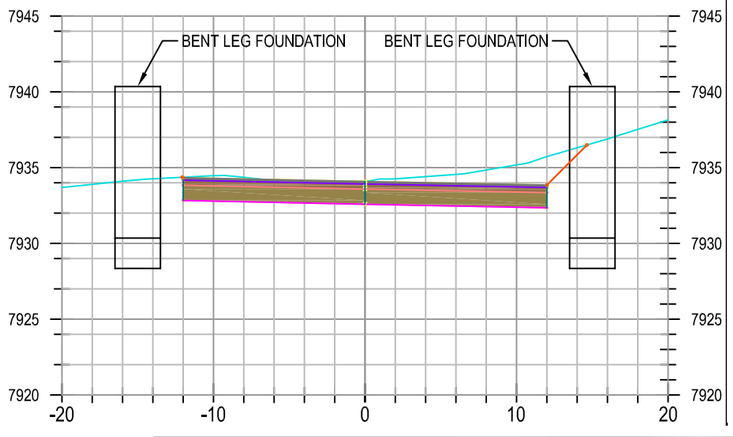
SAMPLE LINE 4
WEST BENT LEG
STATION 16+19



SAMPLE LINE 3
CULVERT
STATION 16+10



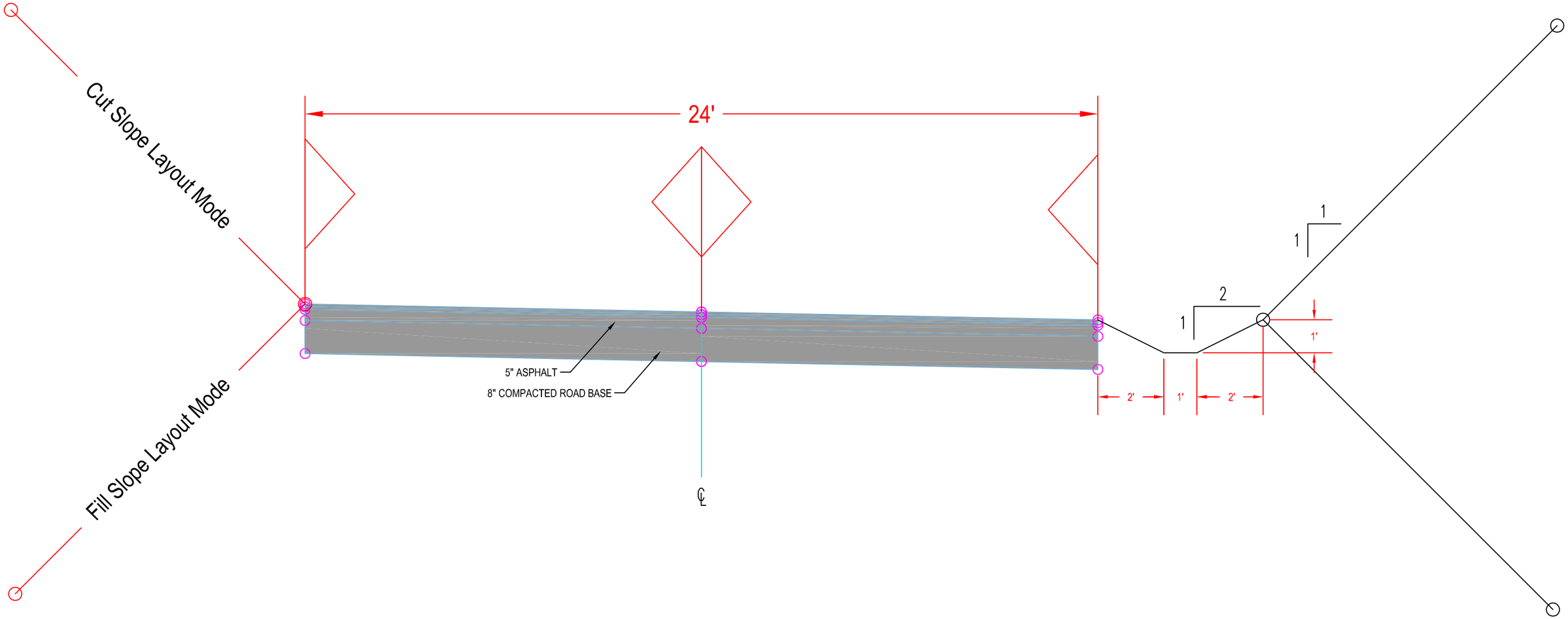
SAMPLE LINE 5
EAST BENT LEG
STATION 16+39



RAIL LOADOUT
WEST TRUCK LOOP ACCESS ROAD
SECTION VIEWS

Canyon Fuel Company, LLC
Skyline Mines

HCR 35 BOX380, HELPER, UT, 84526 435-448-2632	DATE: 9/29/2014	CK.BY:TPOULSEN	REVISION: 00
DWG. NO.: 3.2.1-3c	SCALE: 1" = 10'	DR.BY:CBROWN	
CAD FILE: P:\PERMITS\SKY\MRP APPROVED\DRAWINGS\CHAPTER 2 PLATES\3.2.1-3c			10/20/2014



NOTES:

1. ALL DAYLIGHTING SLOPES ARE 1:1
2. ROAD SLOPES AT 2% TO DITCH ON SOUTH SIDE
3. DITCH FORESLOPE AND BACKSLOPE NOT TO EXCEED 2:1
4. DITCH TO BE INSTALLED ON SOUTH SIDE OF NEW ROAD SECTIONS AS NEEDED

RAIL LOADOUT
WEST TRUCK LOOP ACCESS ROAD
TYPICAL ROAD AND DITCH DETAIL

Canyon Fuel Company, LLC
Skyline Mines

HCR 35 BOX380, HELPER, UT, 84526 435-448-2632	DATE: 9/29/2014	CK.BY: TPOULSEN	REVISION: 00 10/20/2014
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