


SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11 REVISE PLAN SET
DRN.	BES	BK:	JOB NO.	15235-RE
CHK.	PAGE:	DATE:	1/20/11	

**INBERG-MILLER ENGINEERS**



124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394
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**CAMECO RESOURCES**

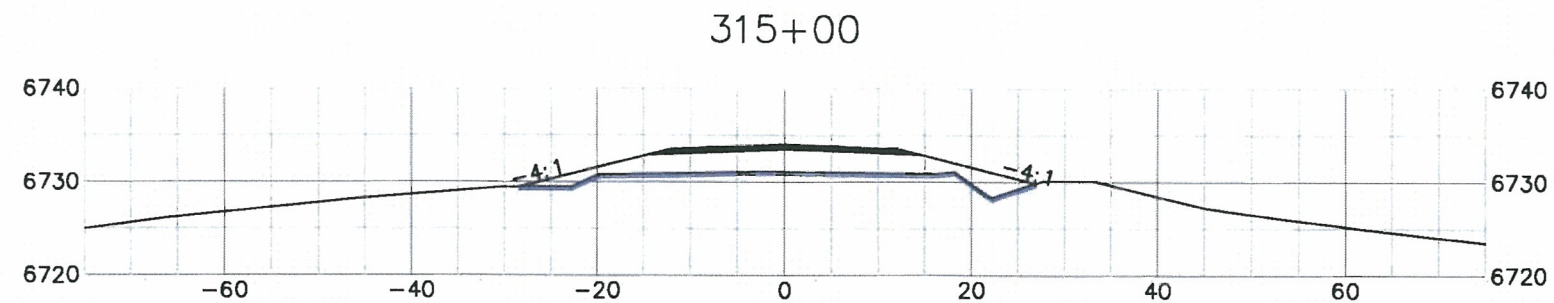
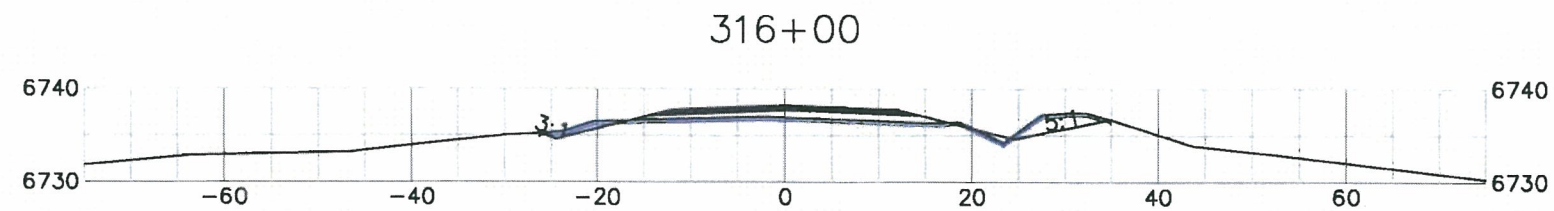
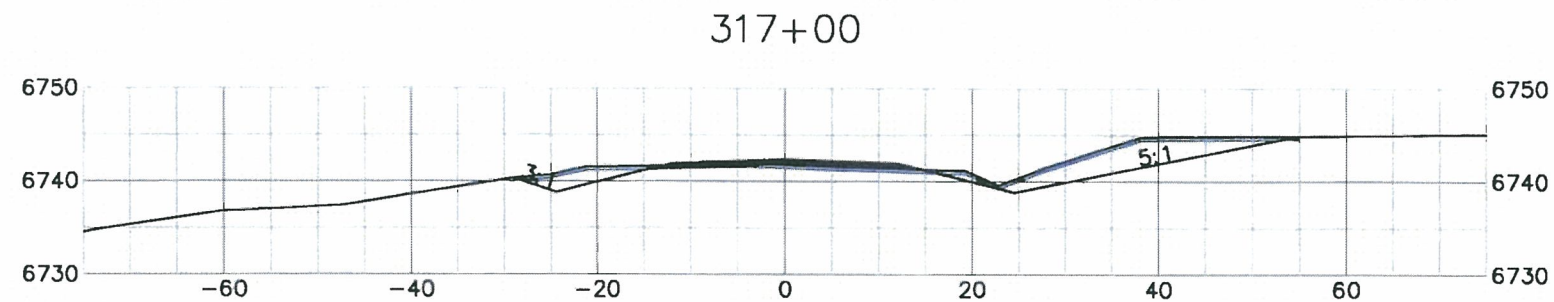
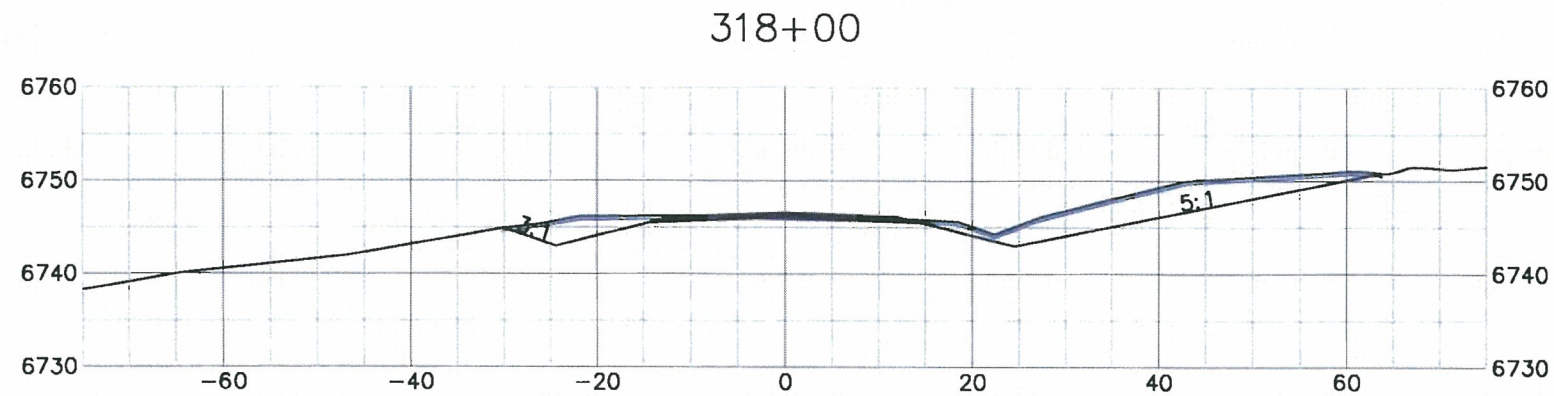
**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET **67** OF **87**

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FILE:15235 Corridor.dwg

15235-RE.dwg  
 1/20/11  
 BES  
 1/20/11



SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11	REVISE	PLAN	SET
DRN	BES	BK:	JOB NO.	15235-RE			
CHK.	PAGE:	DATE:	1/20/11				

**INBERG-MILLER ENGINEERS**

124 East Main Street    1120 East C Street    350 Parsley Boulevard    257 Alan Road    193 Flaming Gorge Way  
 Riverton, WY 82501    Casper, WY 82601    Cheyenne, WY 82007    Powell, WY 82435    Green River, WY 82935  
 307-856-8136    307-577-0806    307-635-6827    307-754-7170    307-875-4394

CAMECO RESOURCES

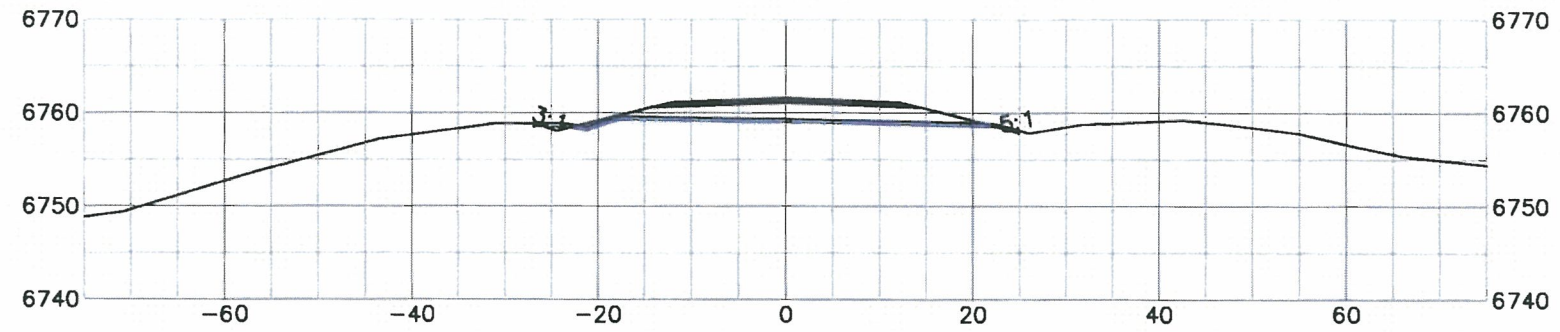
DRY CREEK ROAD  
CROSS SECTIONS

SHEET  
68 OF  
87

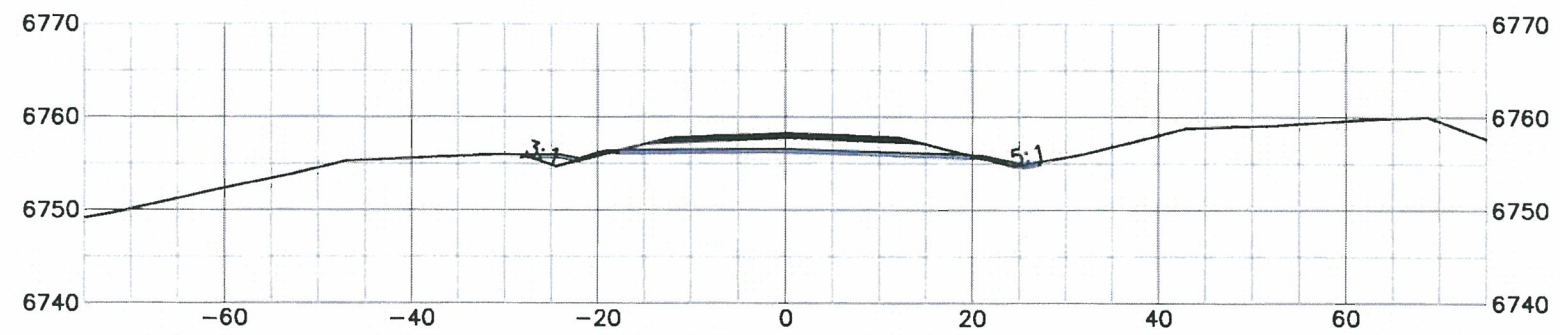
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FILE: 15235 Corridor.dwg

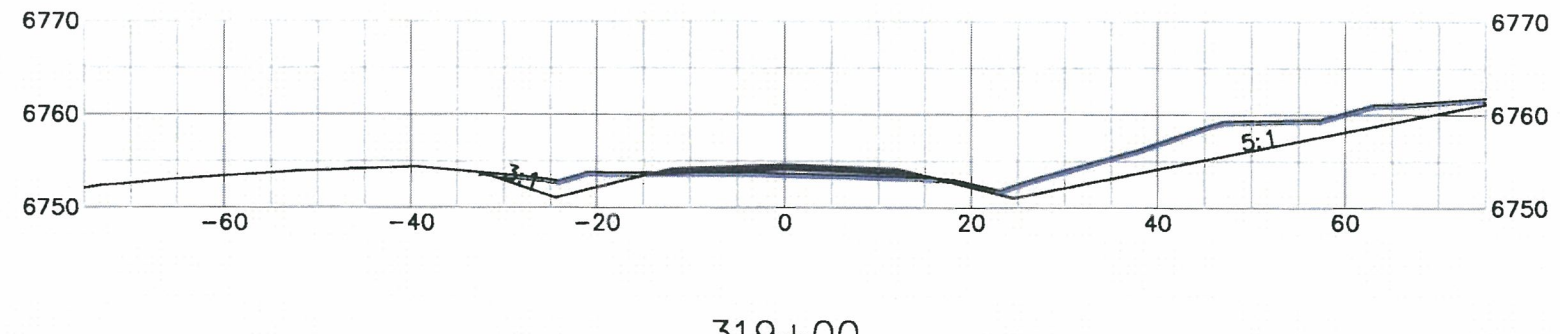
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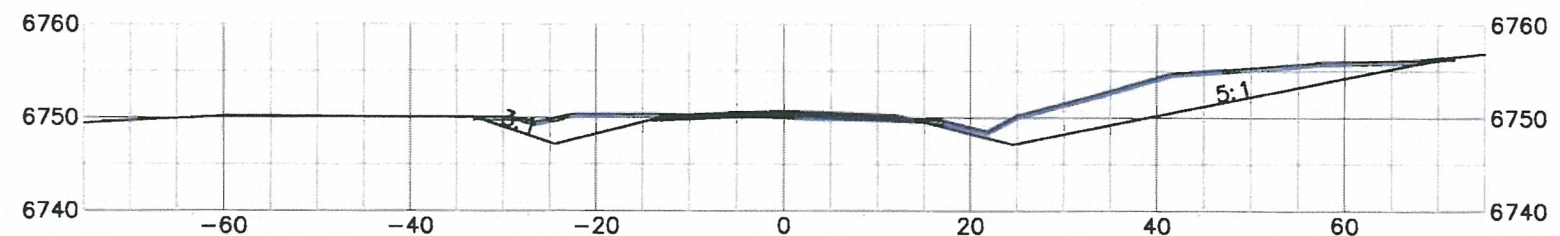
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320+00



319+00



SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11 REVISE PLAN SET
DRN. BES	BK:	JOB NO.	15235-RE	
CHK.	PAGE:	DATE:	1/20/11	



**INBERG-MILLER ENGINEERS**

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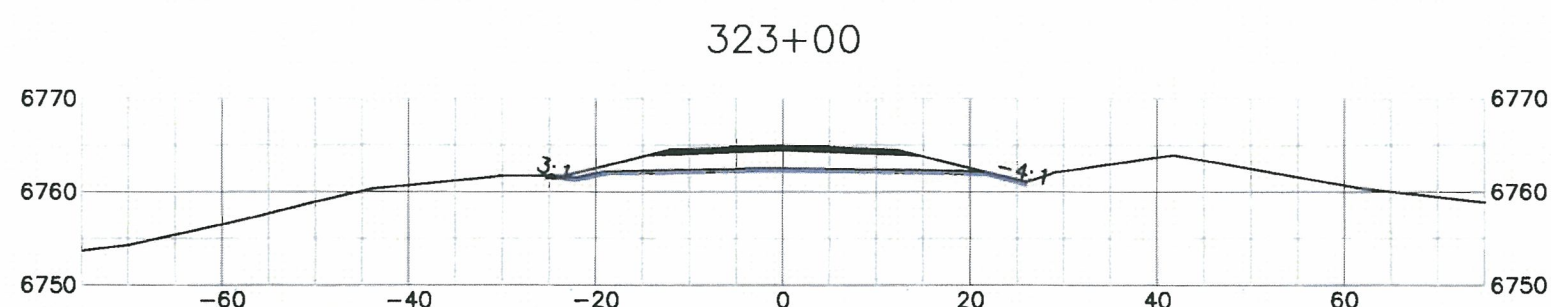
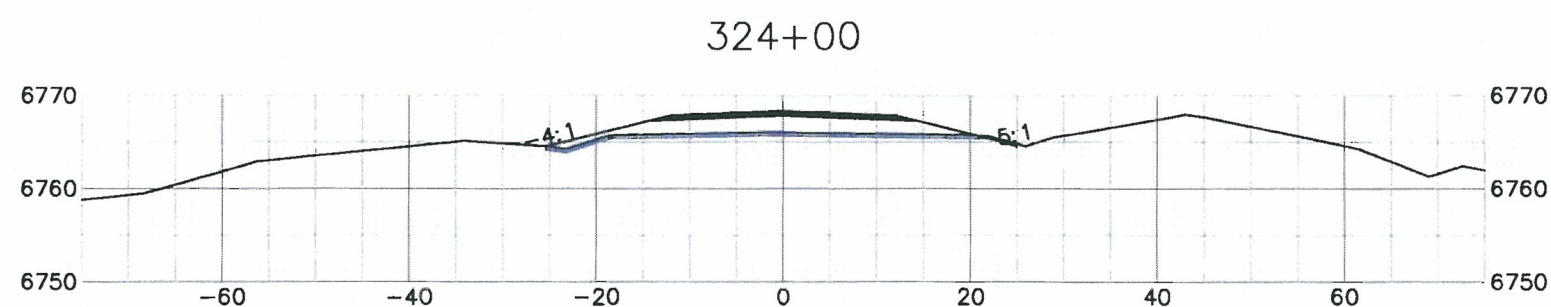
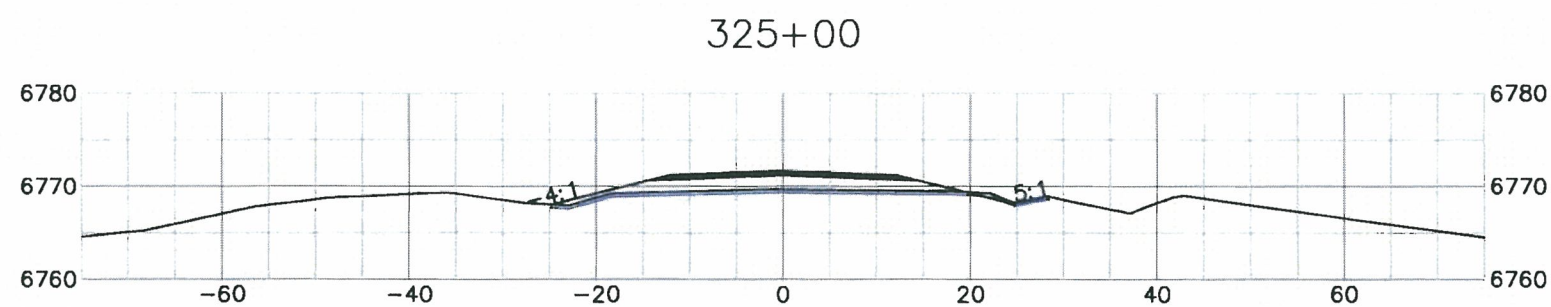
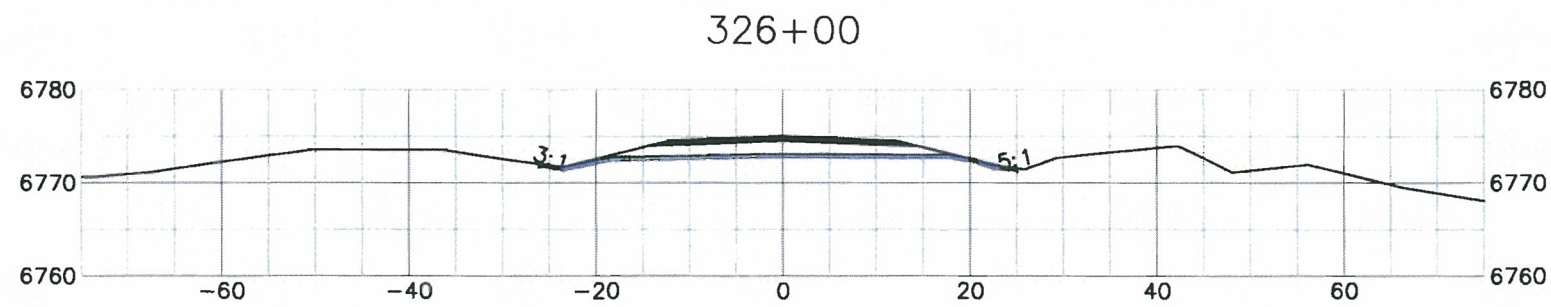
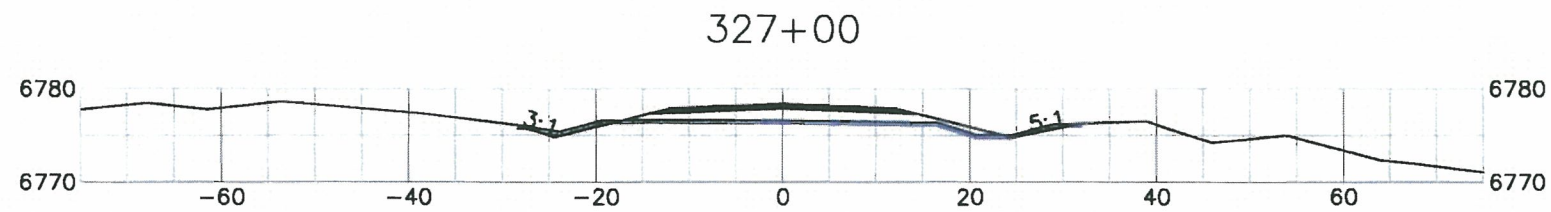
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**


SHEET  
69 OF  
87

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FILE:15235 Corridor.dwg



SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11 REVISE PLAN SET
DRN. BES	BK:	JOB NO.	15235-RE	
CHK.	PAGE:	DATE:	1/20/11	


**INBERG-MILLER ENGINEERS**  
124 East Main Street Riverton, WY 82501 307-856-8136
1120 East C Street Casper, WY 82601 307-577-0806
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257 Alan Road Powell, WY 82435 307-754-7170
193 Flaming Gorge Way Green River, WY 82935 307-875-4394

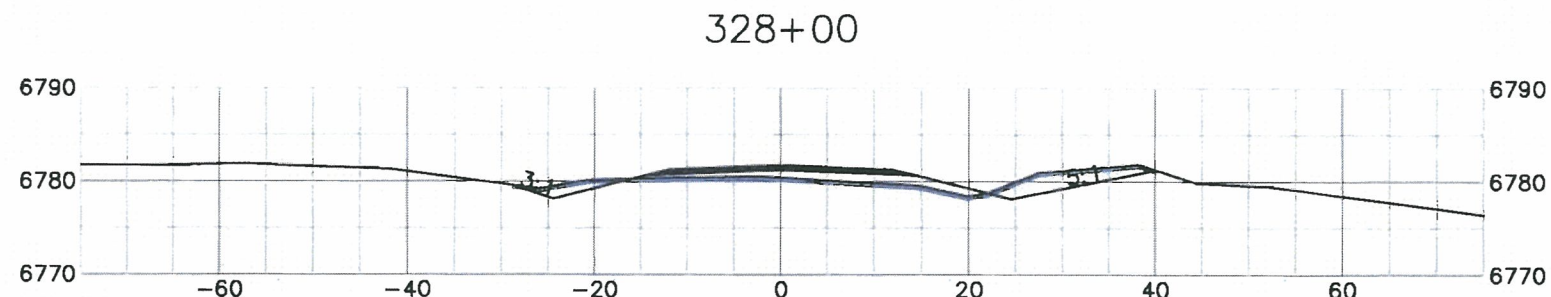
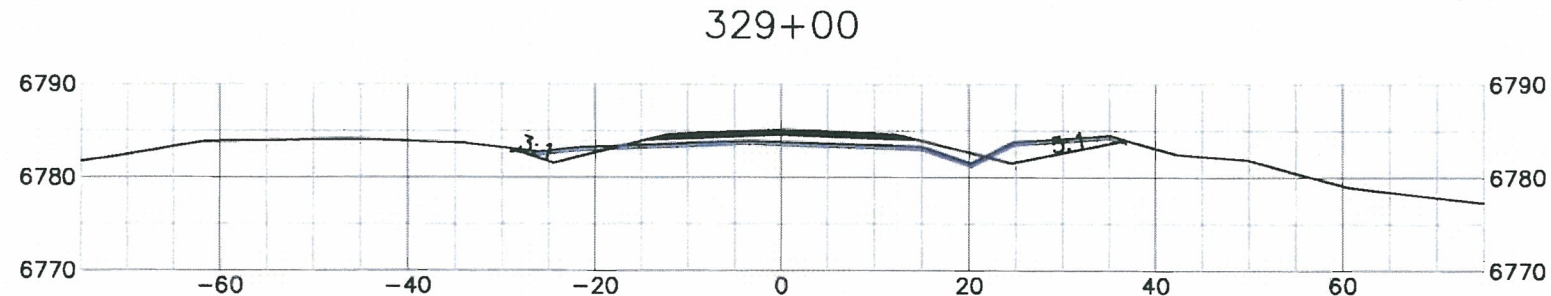
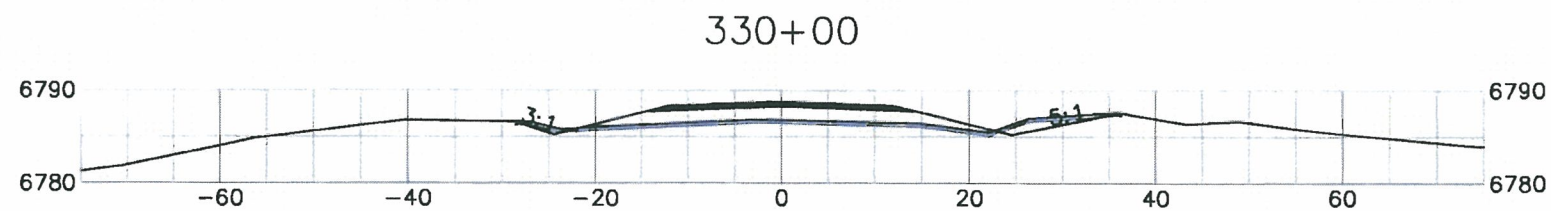
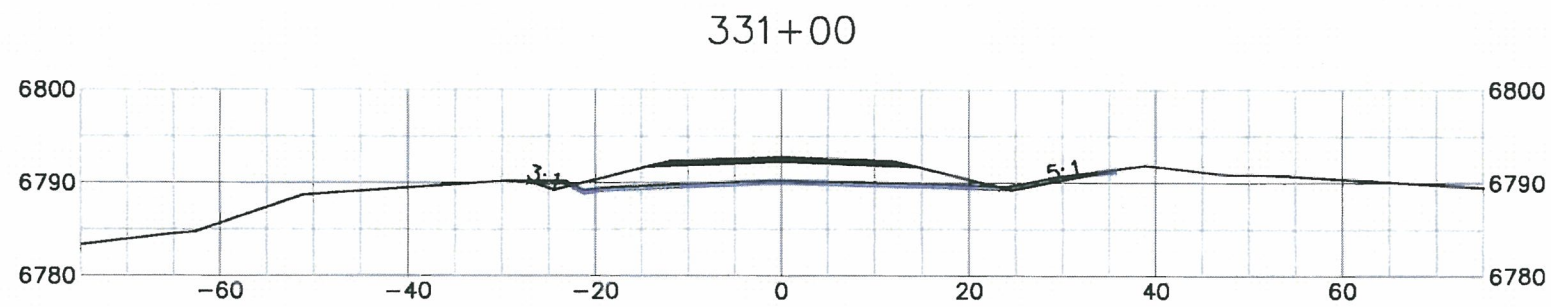
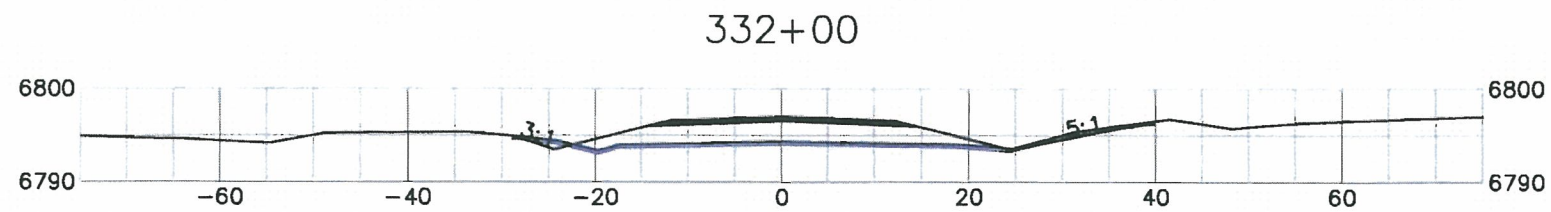
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**70** OF  
**87**

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FILE:15235 Corridor.dwg



SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11	REVISE	PLAN SET
DRN. BES	BK:	JOB NO.	15235-RE			
CHK.	PAGE:	DATE:	1/20/11			

**INBERG-MILLER ENGINEERS**

124 East Main Street    1120 East C Street    350 Parsley Boulevard    257 Alan Road    193 Flaming Gorge Way  
Riverton, WY 82501    Casper, WY 82601    Cheyenne, WY 82007    Powell, WY 82435    Green River, WY 82935  
307-856-8136    307-577-0806    307-635-6827    307-754-7170    307-875-4394

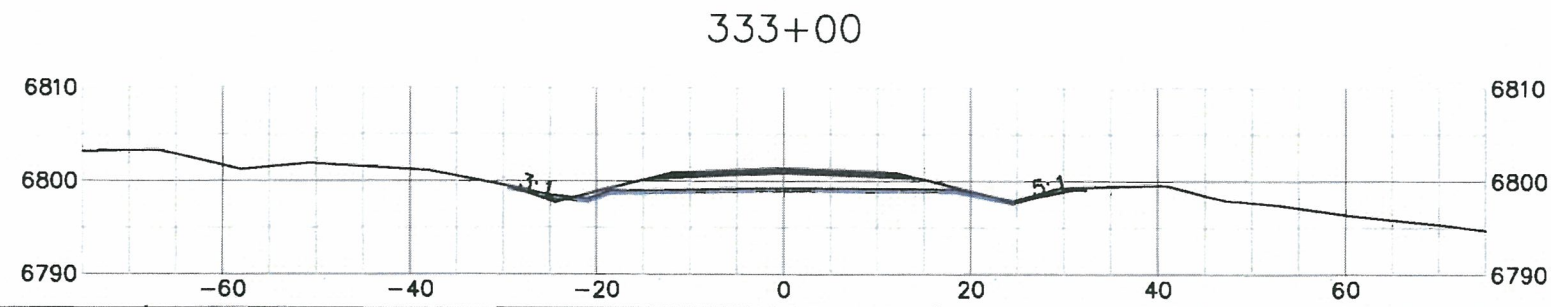
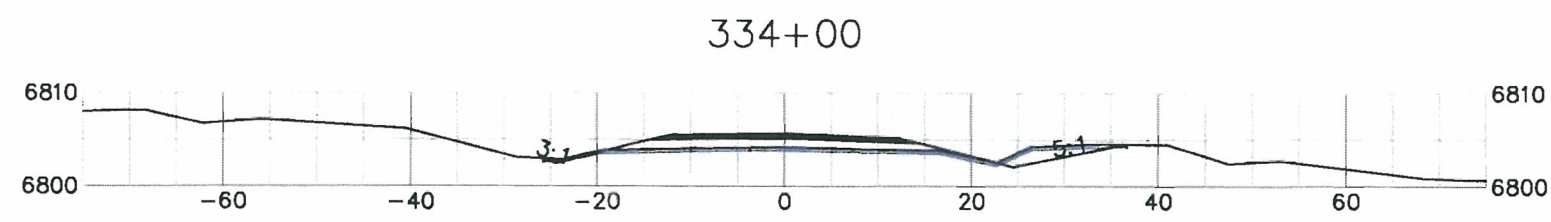
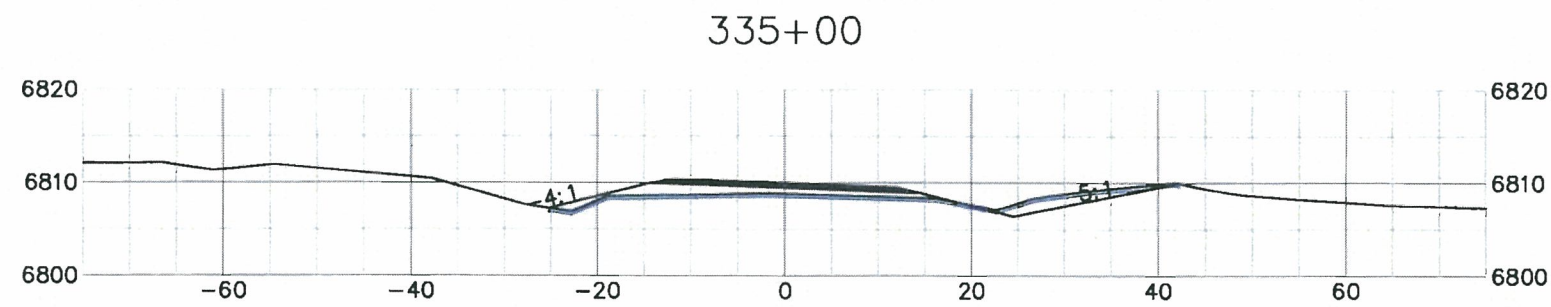
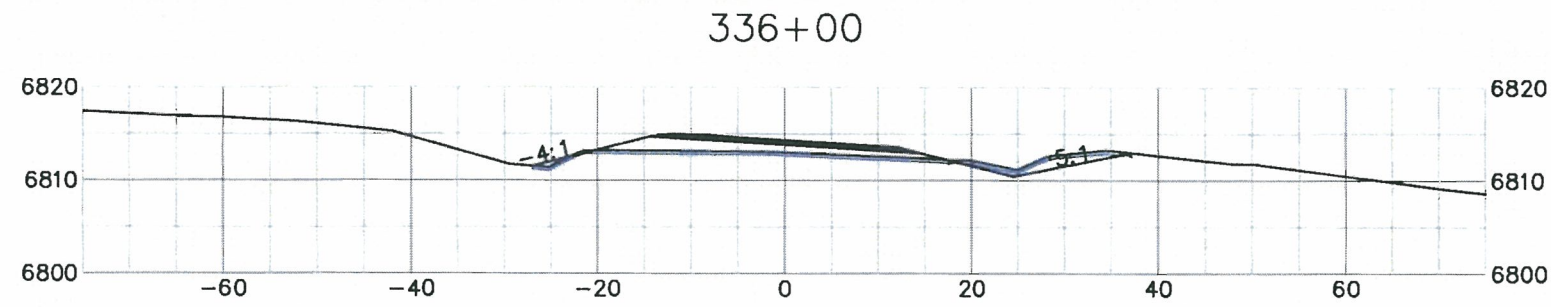
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**71** OF  
**87**

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FILE:15235 Corridor.dwg



SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11	REVISE	PLAN SET
DRN. BES	BK:	JOB NO.	15235-RE			
CHK.	PAGE:	DATE:	1/20/11			

**INBERG-MILLER ENGINEERS**

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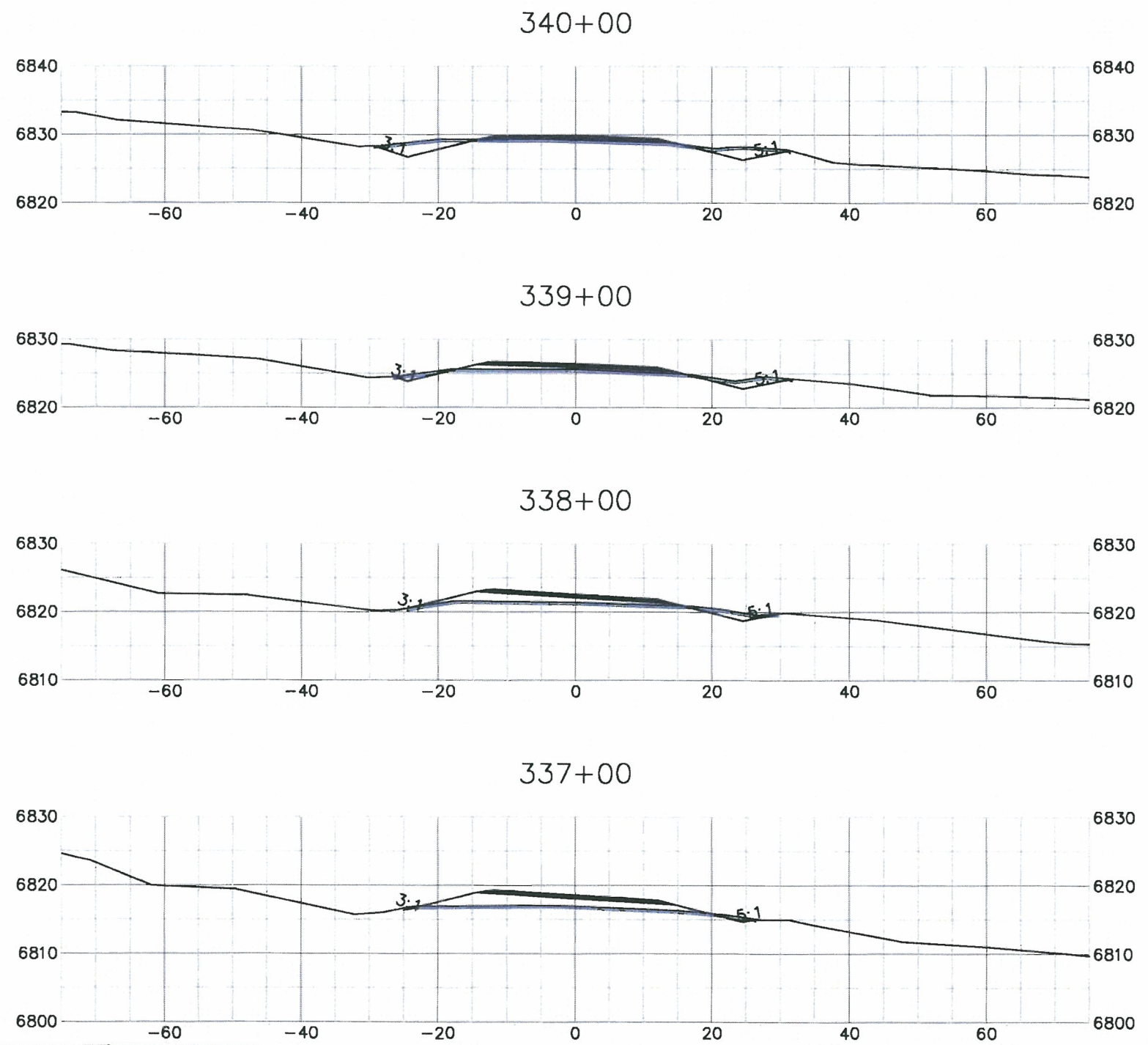
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**72** OF  
**87**


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FILE:15235 Corridor.dwg



SCALE	HORZ 1" = 20'	VERT 1" = 20'	REVISIONS	10/12/11	REVISE	PLAN SET
DRN. BES	BK:	JOB NO.	15235-RE			
CHK.	PAGE:	DATE:	1/20/11			

**INBERG-MILLER ENGINEERS**



124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394
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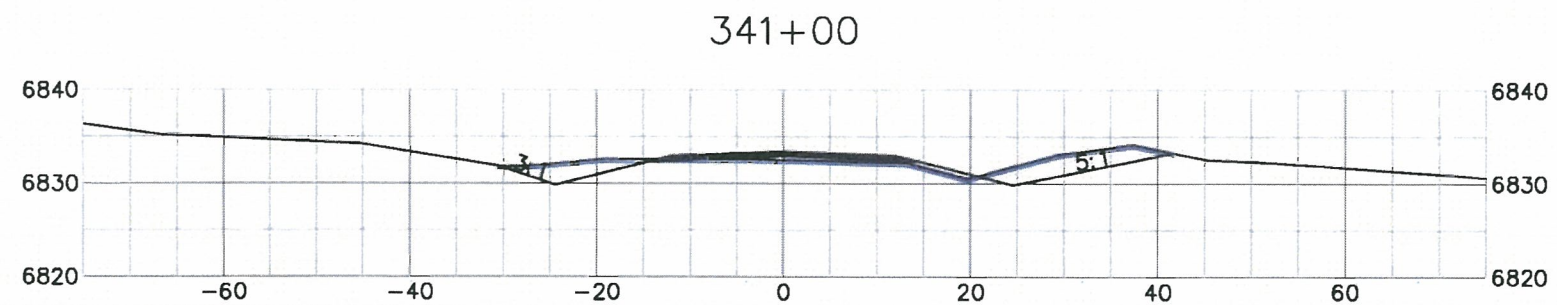
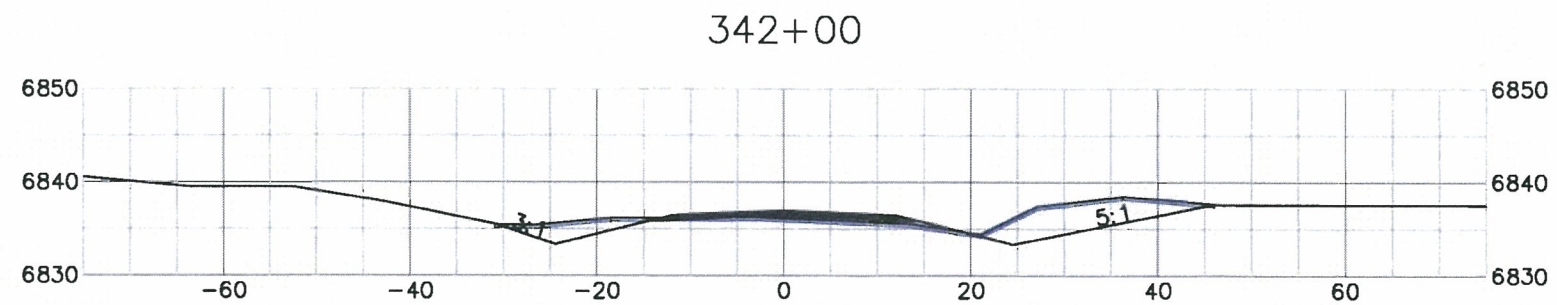
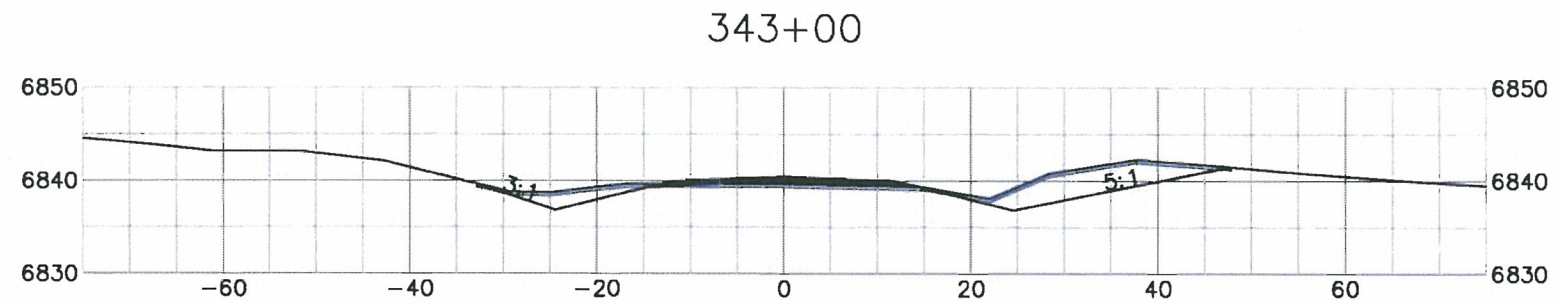
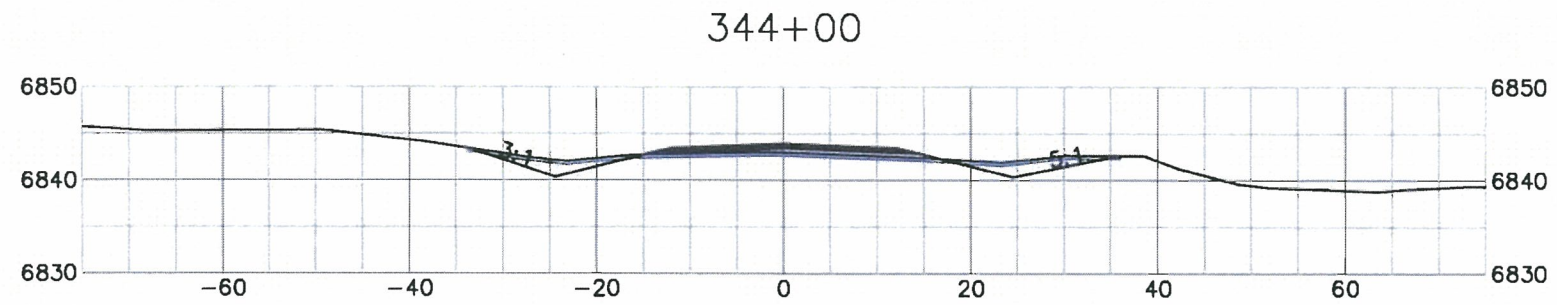
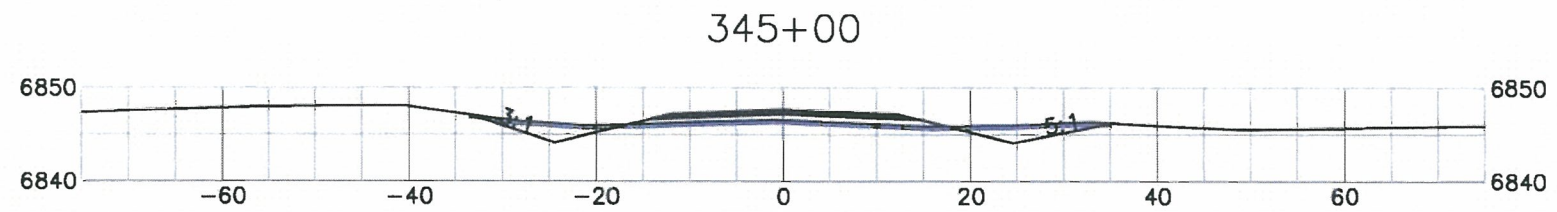
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**73** OF  
**87**

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FILE:15235 Corridor.dwg



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DRN. BES	BK:	JOB NO.	15235-RE	
CHK.	PAGE:	DATE:	1/20/11	



**INBERG-MILLER ENGINEERS**

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**CAMECO RESOURCES**

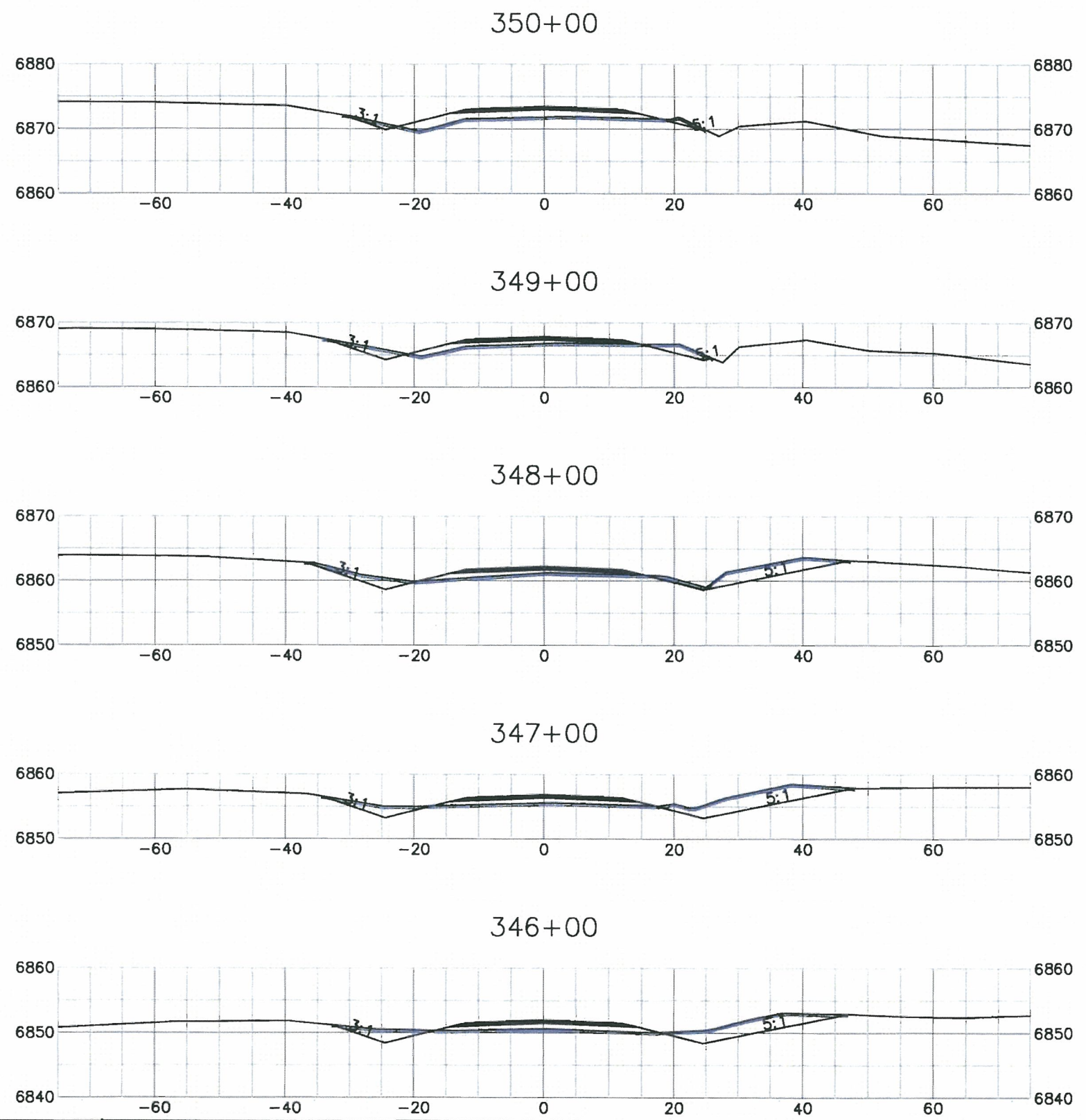
**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**74** OF  
**87**

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FILE:15235 Corridor.dwg





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DRN. BES	BK:	JOB NO.	15235-RE			
CHK.	PAGE:	DATE:	1/20/11			

**INBERG-MILLER ENGINEERS**

	124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394
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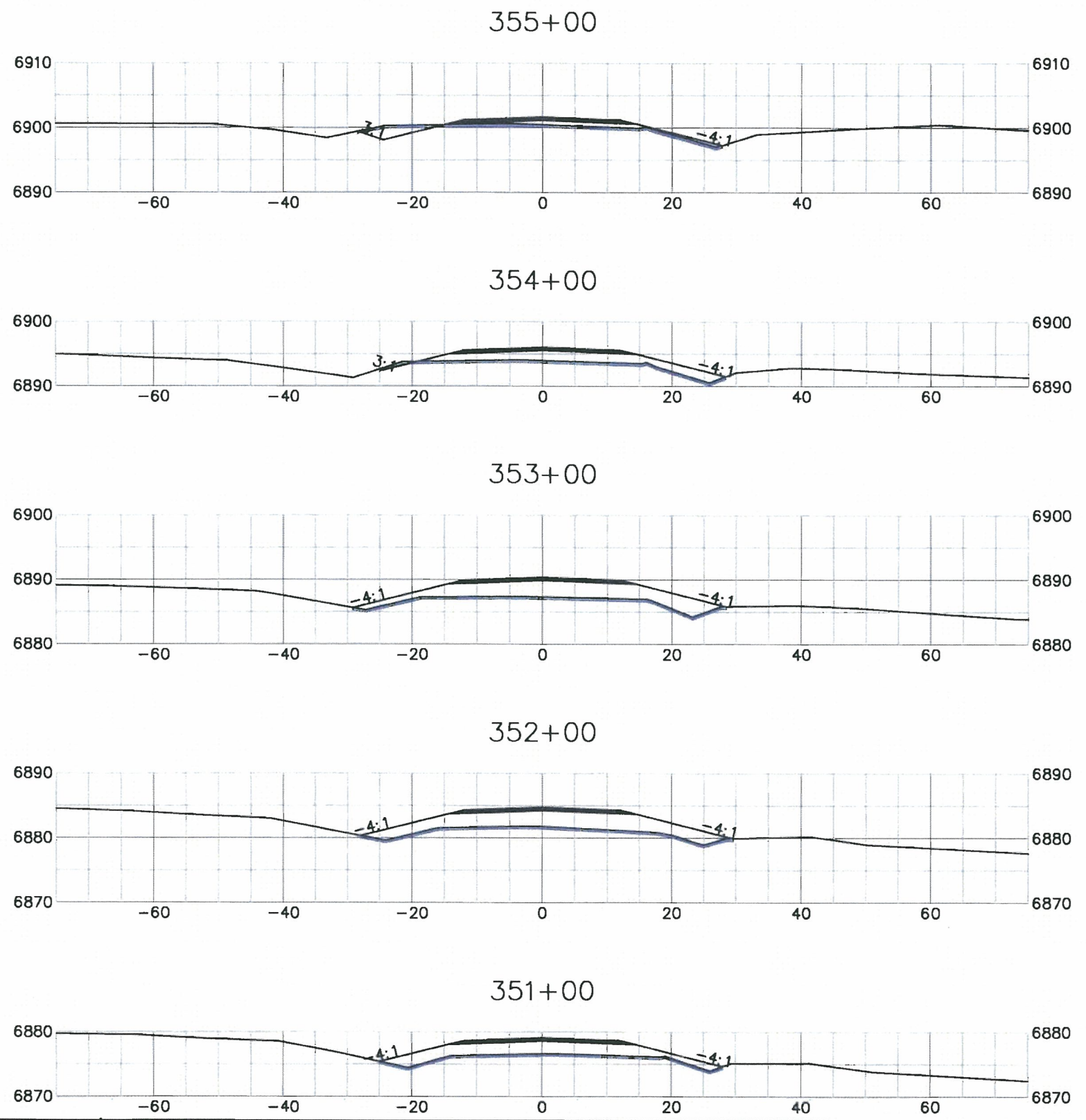
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**75** OF  
**87**


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DRN. BES	BK:	JOB NO.	15235-RE	
CHK.	PAGE:	DATE:	1/20/11	

**INBERG-MILLER ENGINEERS**



124 East Main Street  
Riverton, WY 82501  
307-856-8136

1120 East C Street  
Casper, WY 82601  
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Green River, WY 82935  
307-875-4394

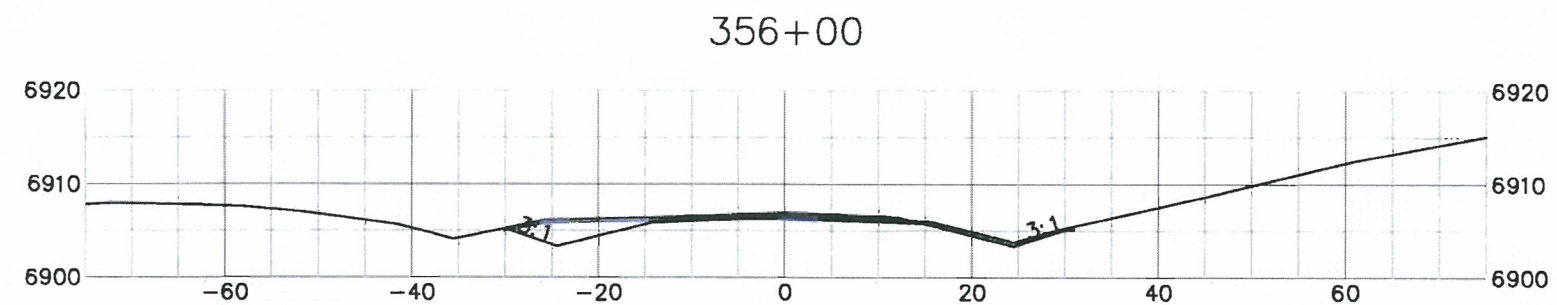
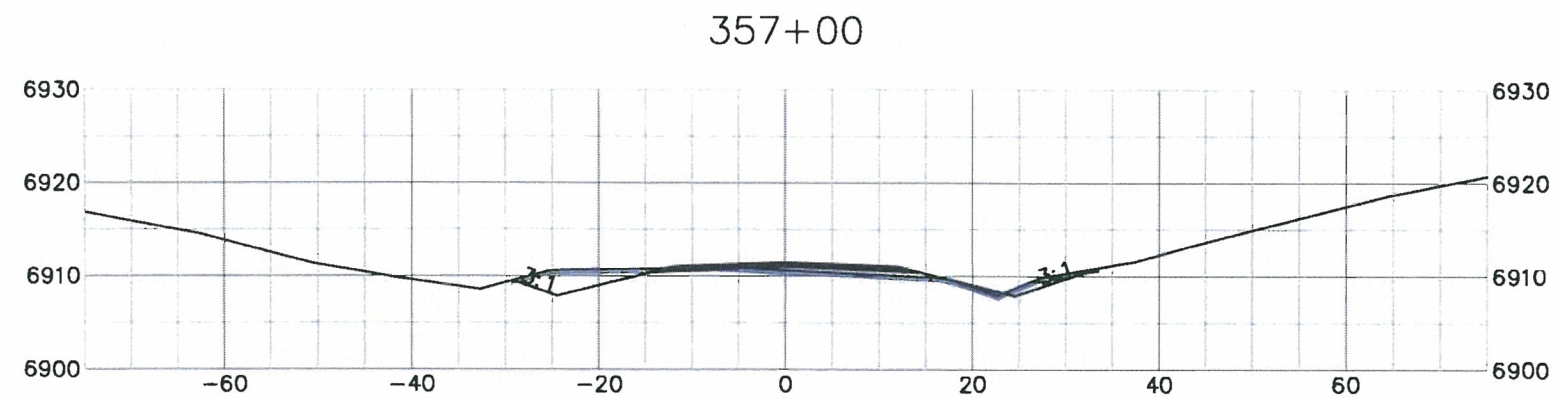
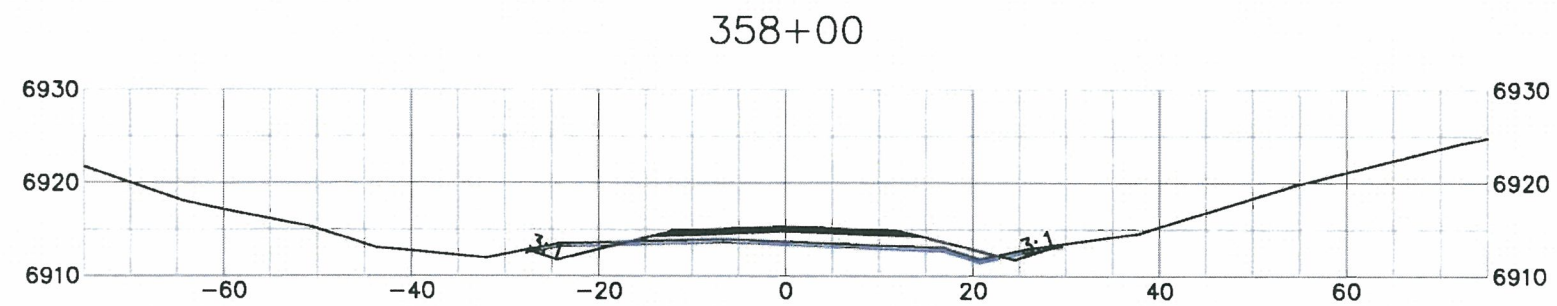
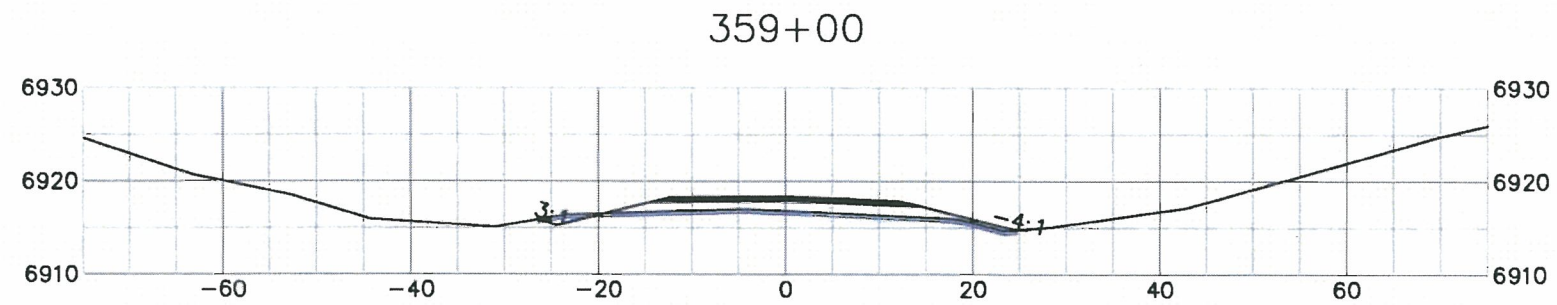
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET **76** OF **87**

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SCALE	HORZ 1"=20'	VERT 1"=20'	REVISIONS	10/12/11 REVISE PLAN SET
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**INBERG-MILLER ENGINEERS**

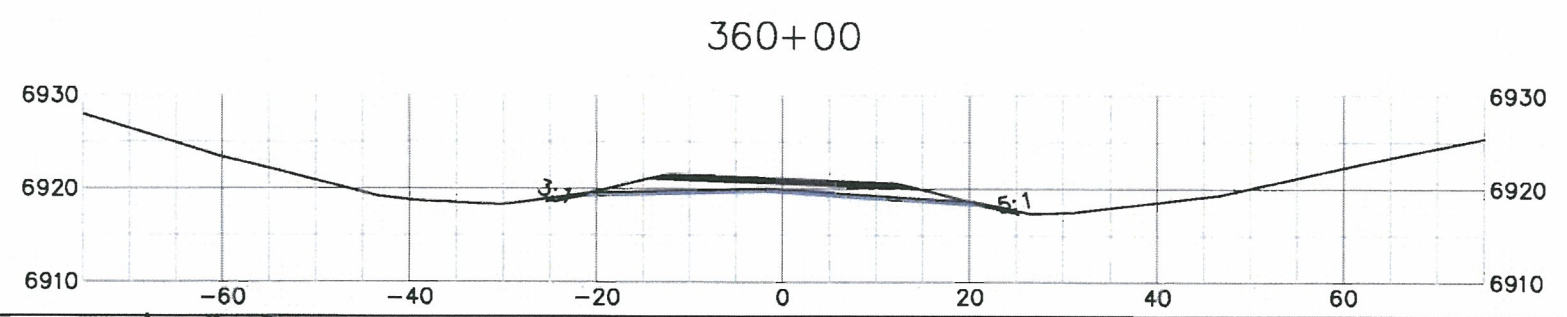
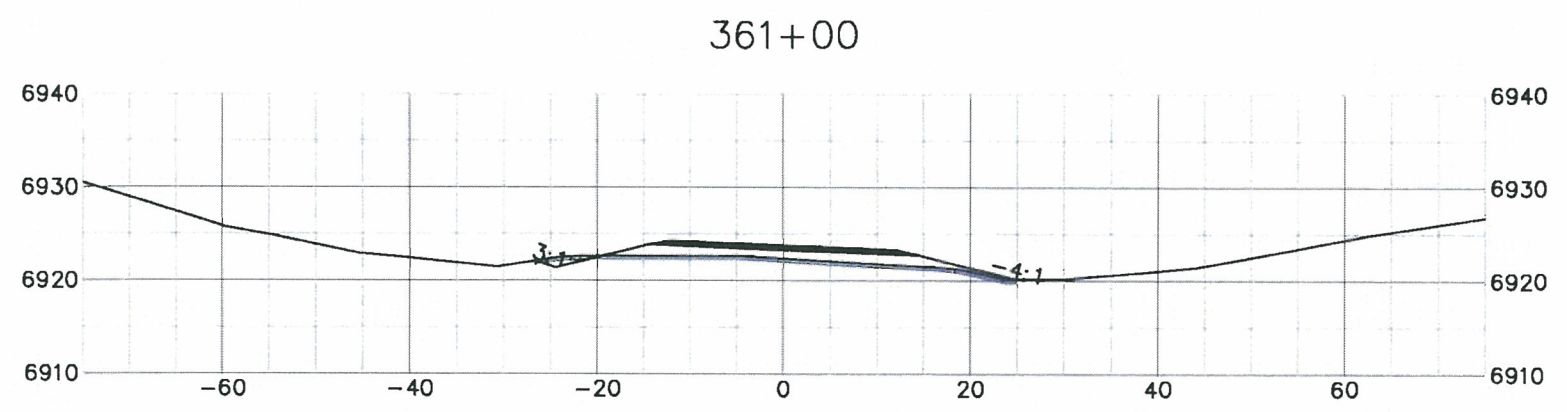
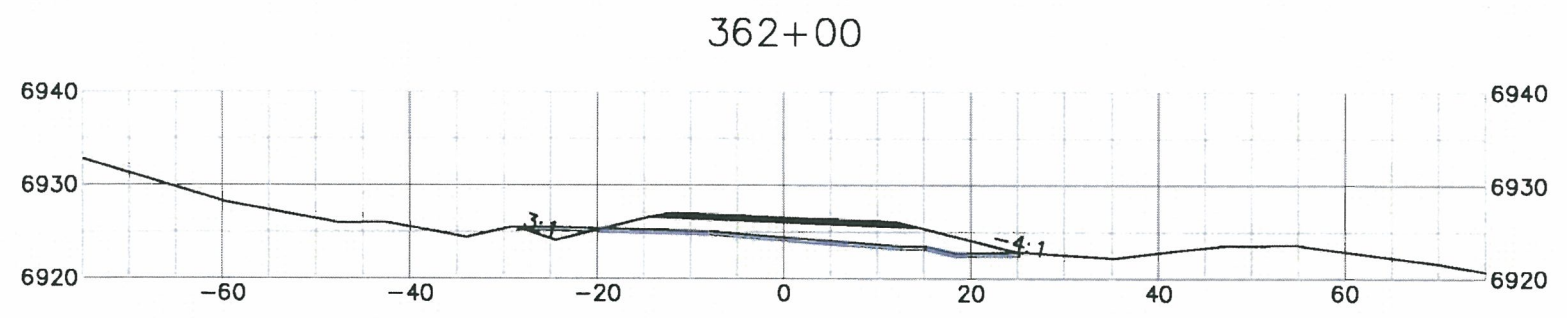
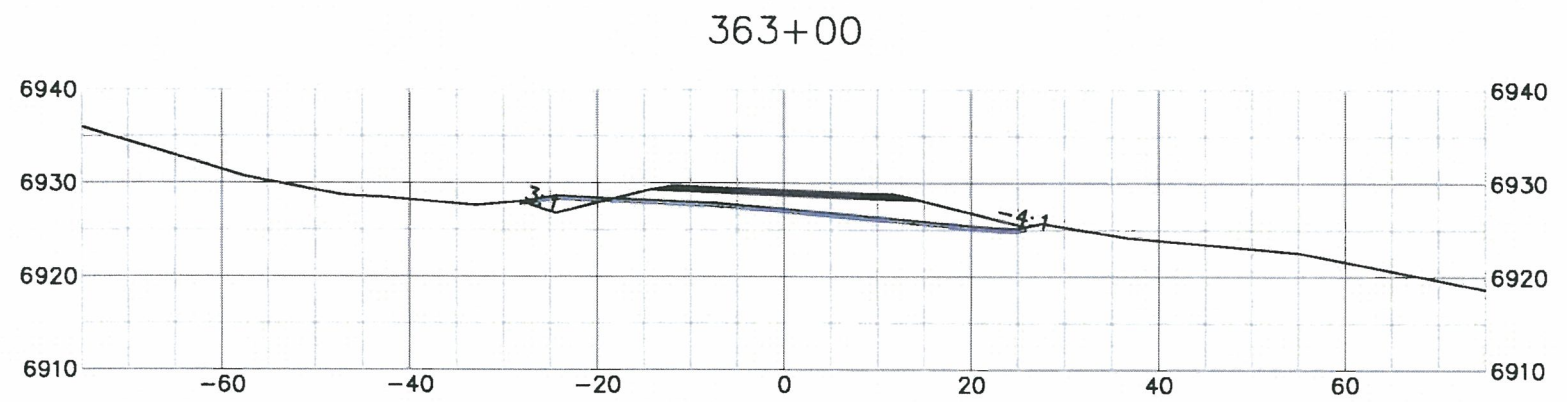
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**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**77** OF  
**87**

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**INBERG-MILLER ENGINEERS**

124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394
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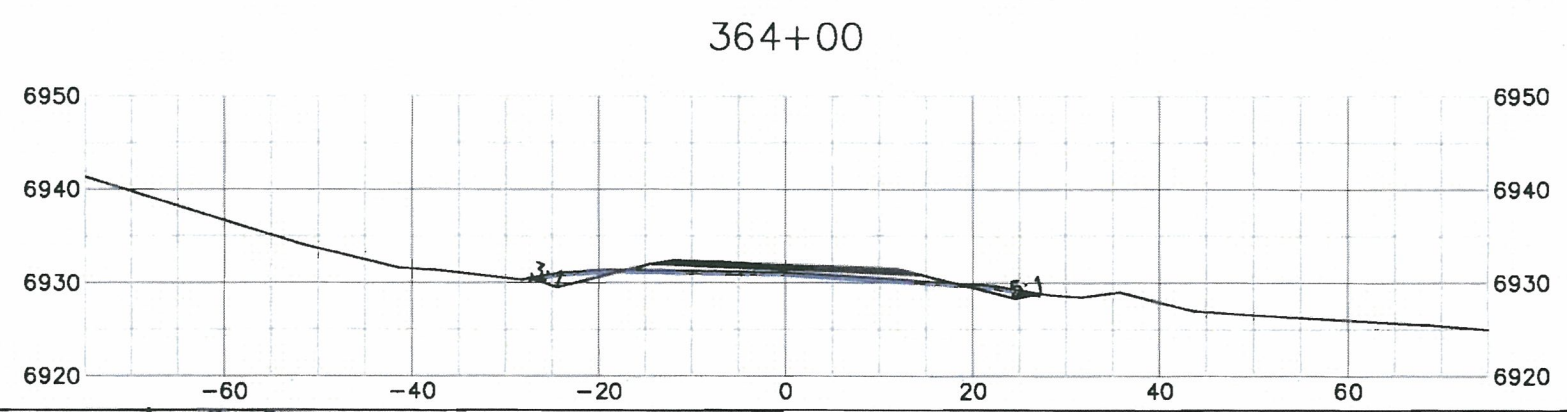
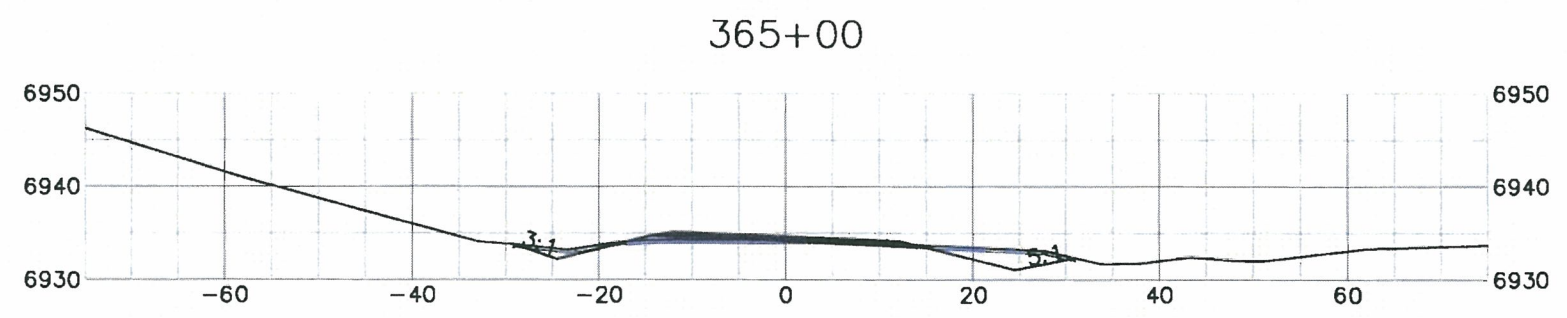
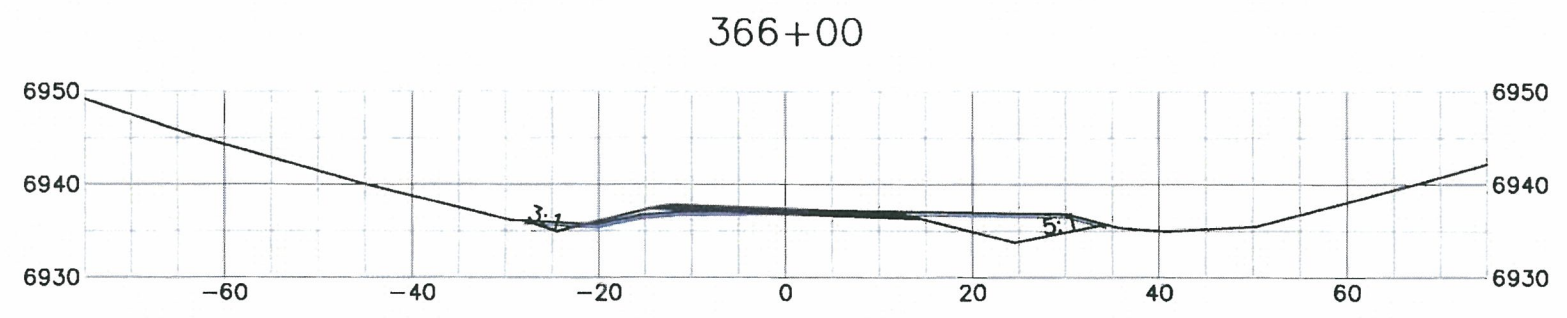
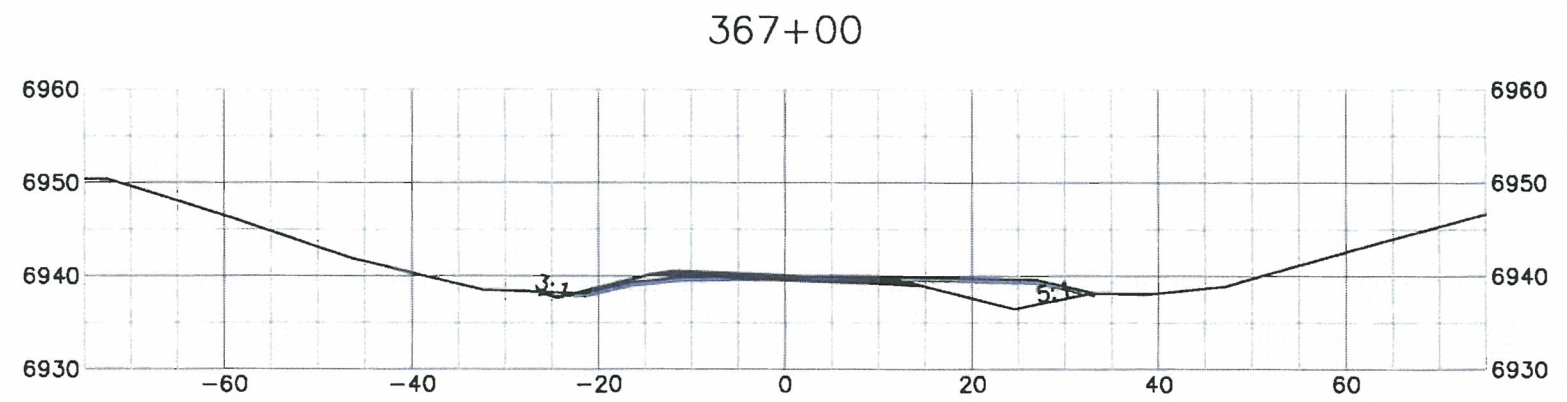
CAMECO RESOURCES

DRY CREEK ROAD  
CROSS SECTIONS


SHEET  
78 OF  
87

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CHK.	PAGE:	DATE:	1/20/11			



**INBERG-MILLER ENGINEERS**

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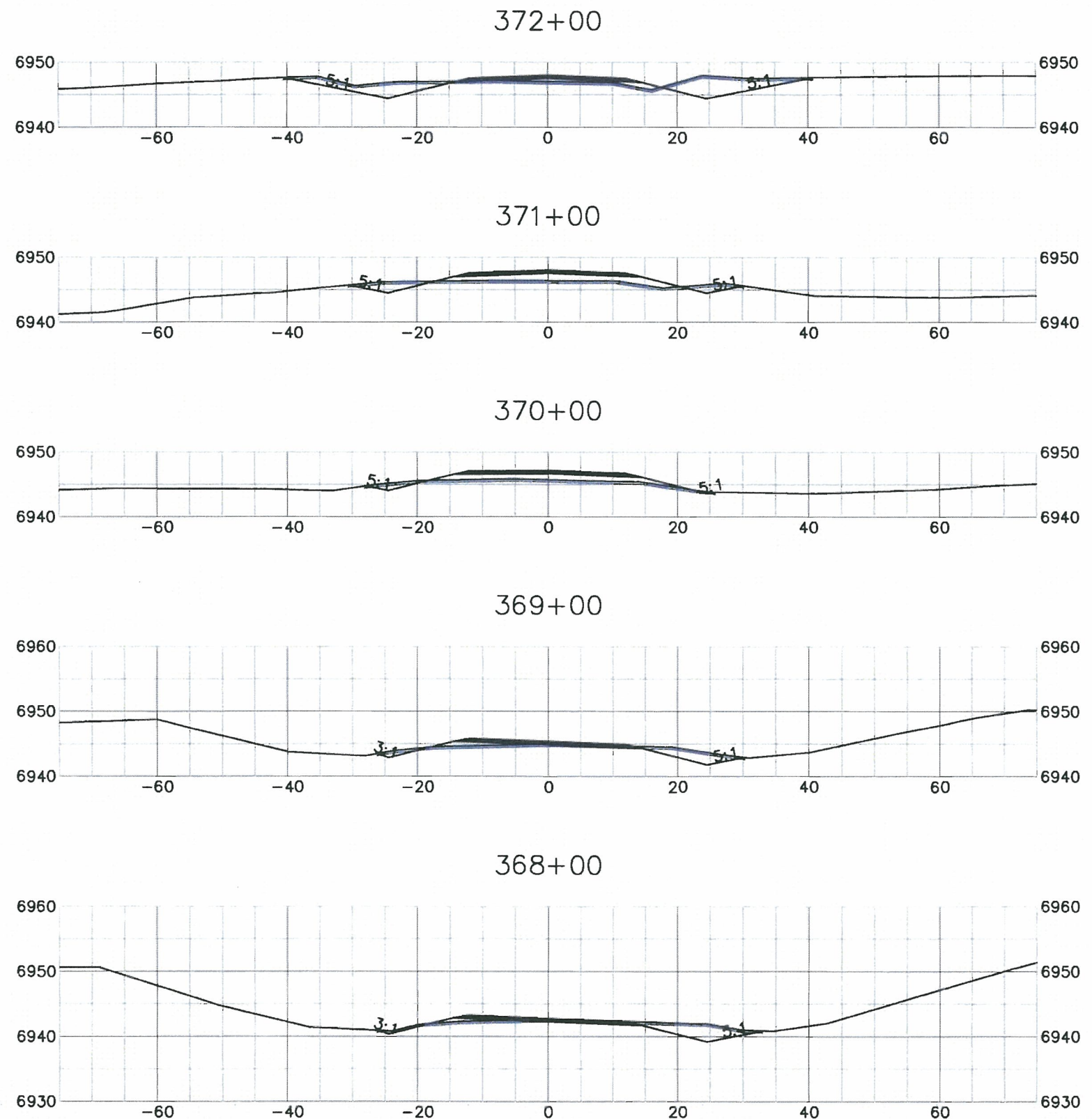
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**79** OF  
**87**


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**INBERG-MILLER ENGINEERS**



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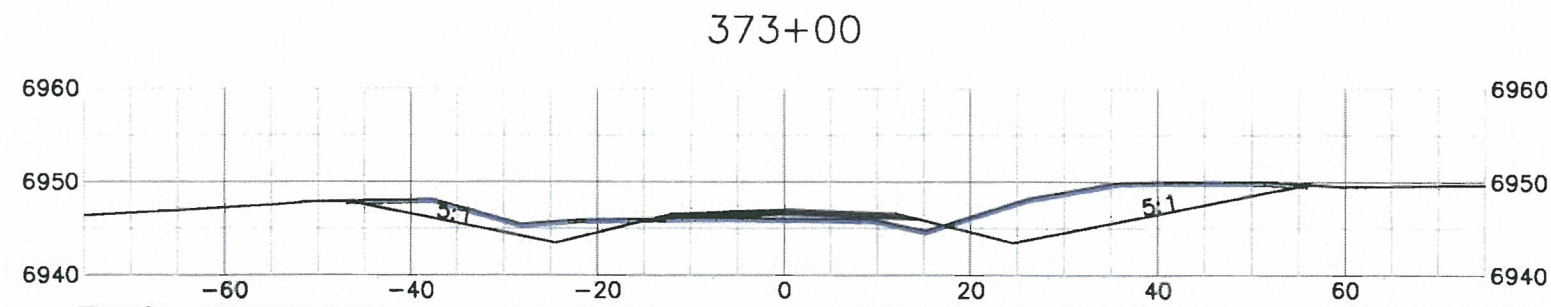
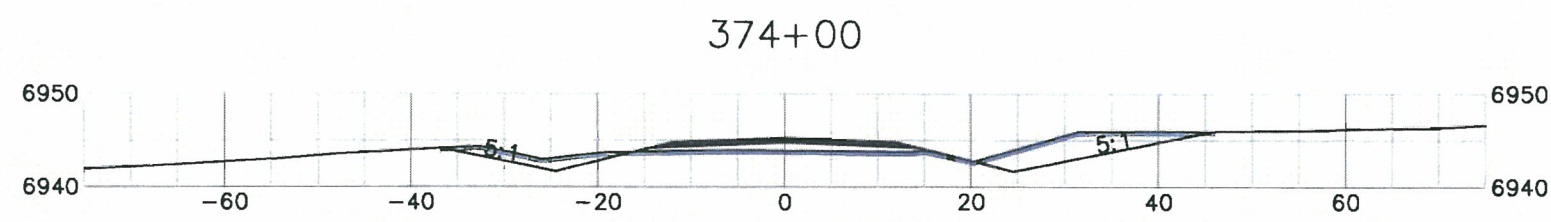
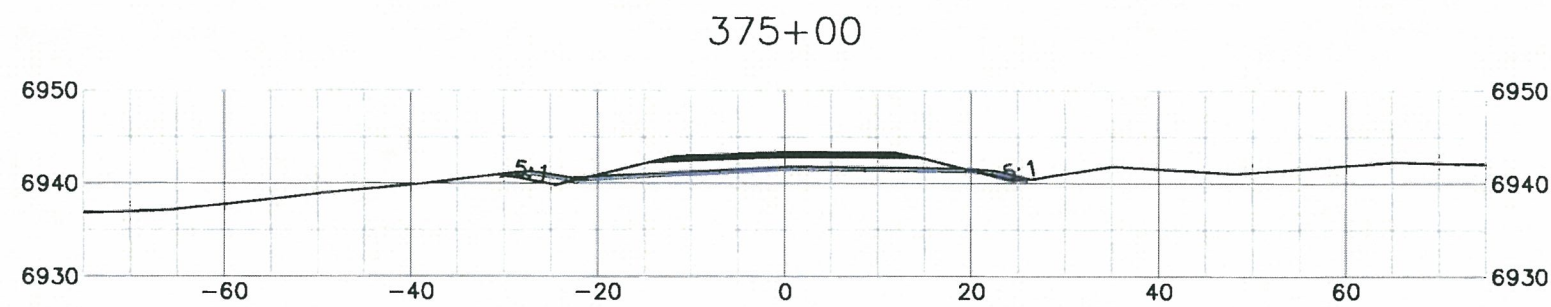
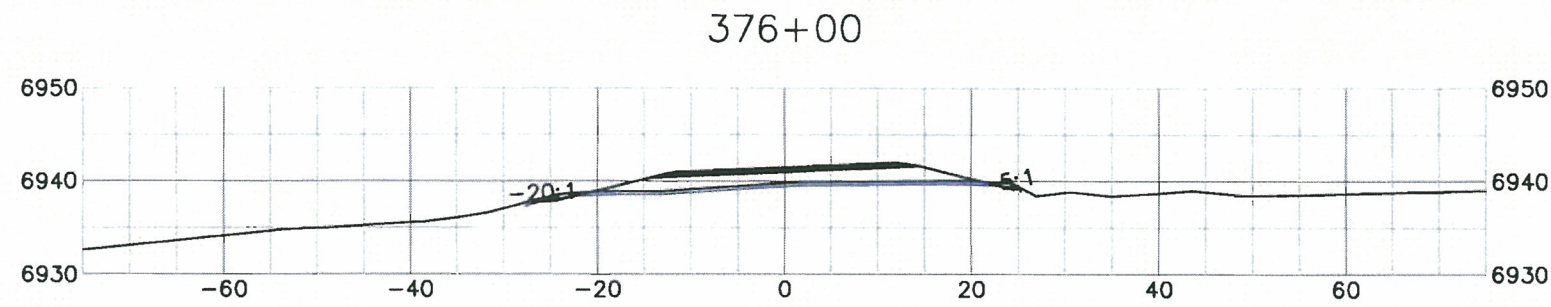
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**80** OF  
**87**

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CHK.	PAGE:	DATE:	1/20/11	

**INBERG-MILLER ENGINEERS**

124 East Main Street    1120 East C Street    350 Parsley Boulevard    257 Alan Road    193 Flaming Gorge Way  
 Riverton, WY 82501    Casper, WY 82601    Cheyenne, WY 82007    Powell, WY 82435    Green River, WY 82935  
 307-856-8136    307-577-0806    307-635-6827    307-754-7170    307-875-4394

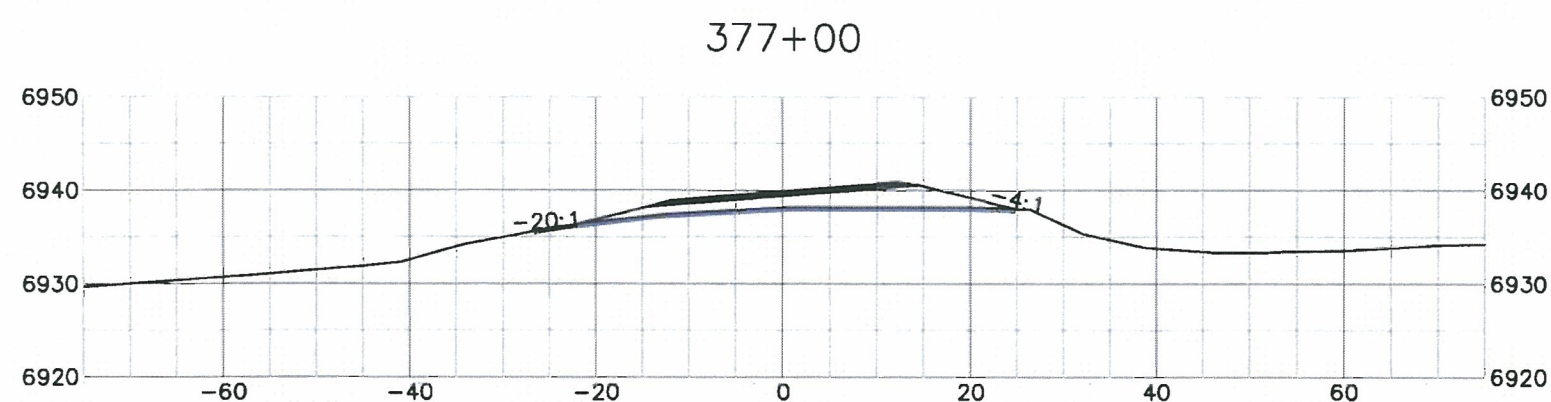
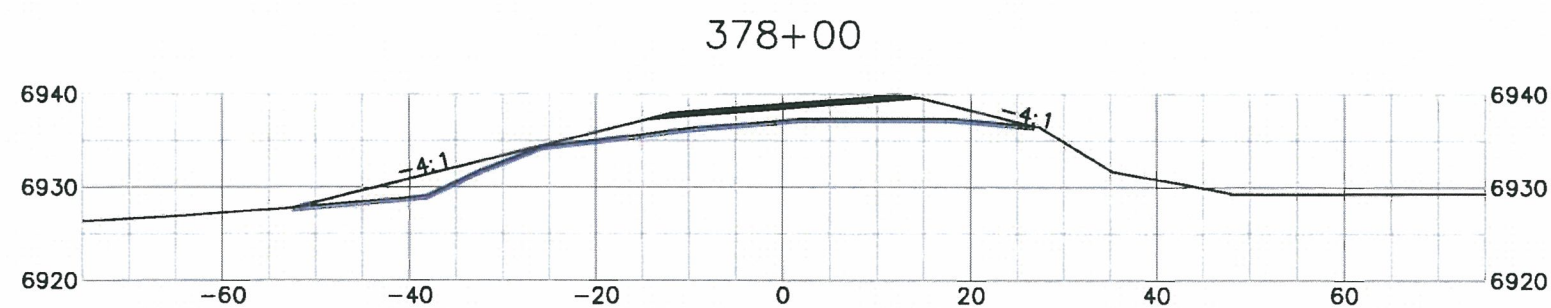
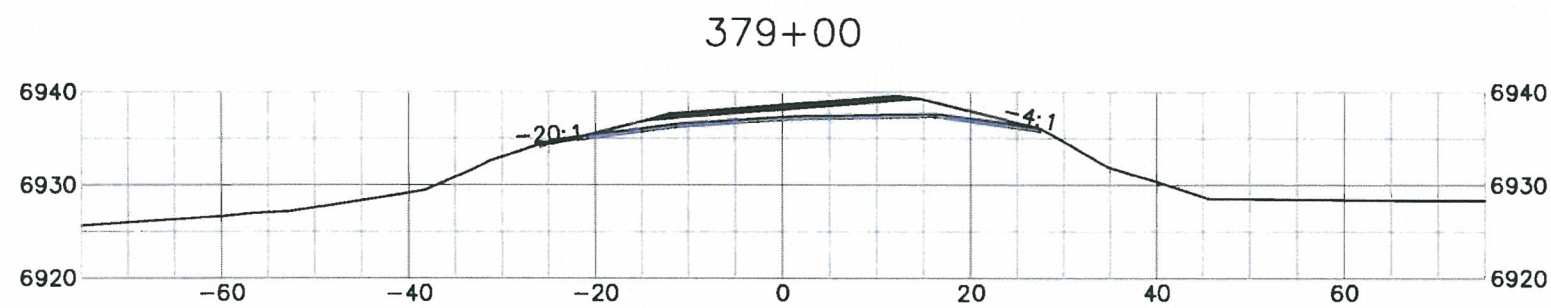
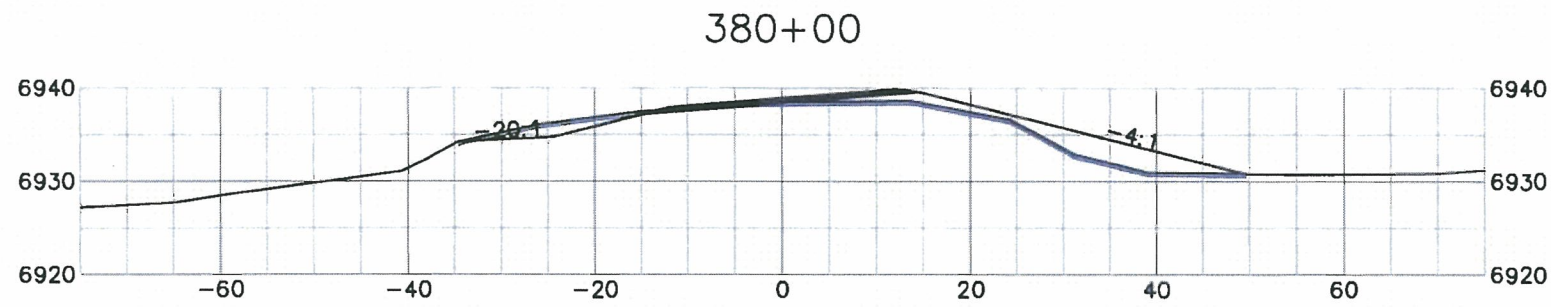
CAMECO RESOURCES

DRY CREEK ROAD  
CROSS SECTIONS


SHEET  
81 OF  
87

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**CAMECO RESOURCES**

**DRY CREEK ROAD  
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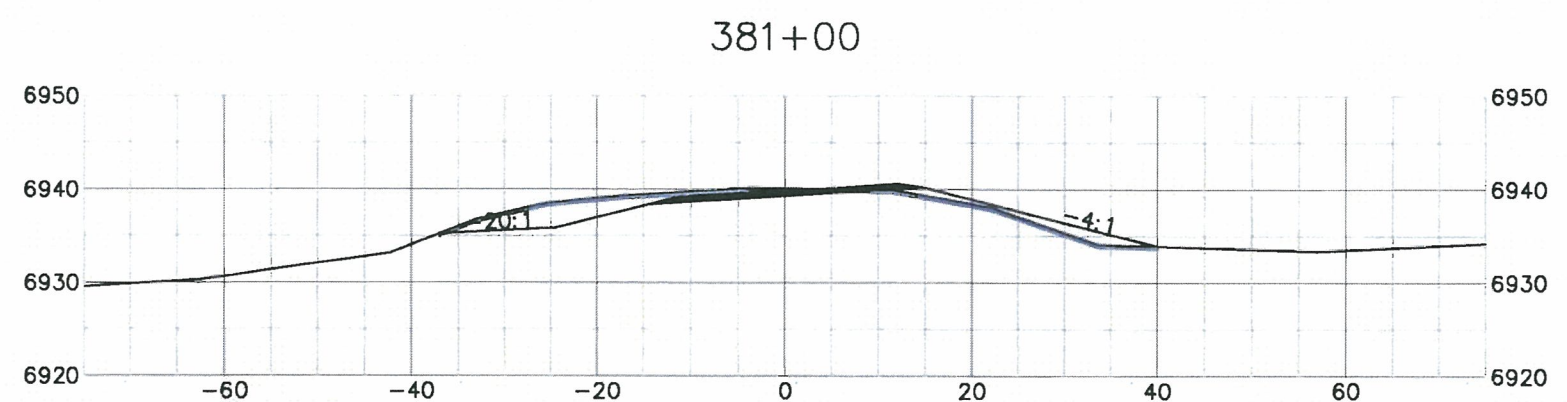
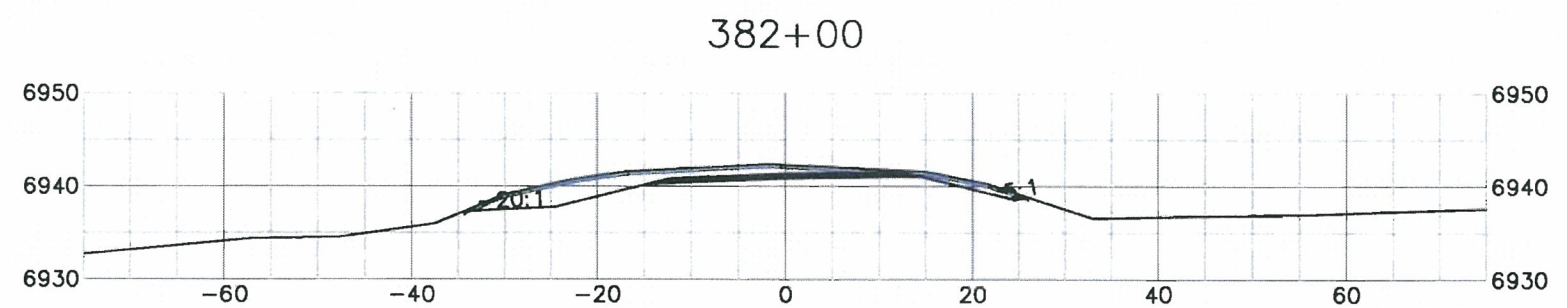
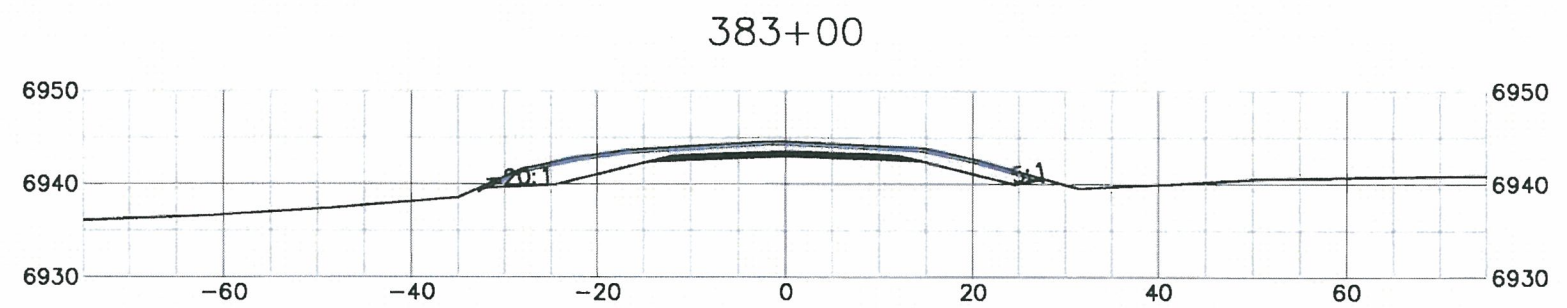
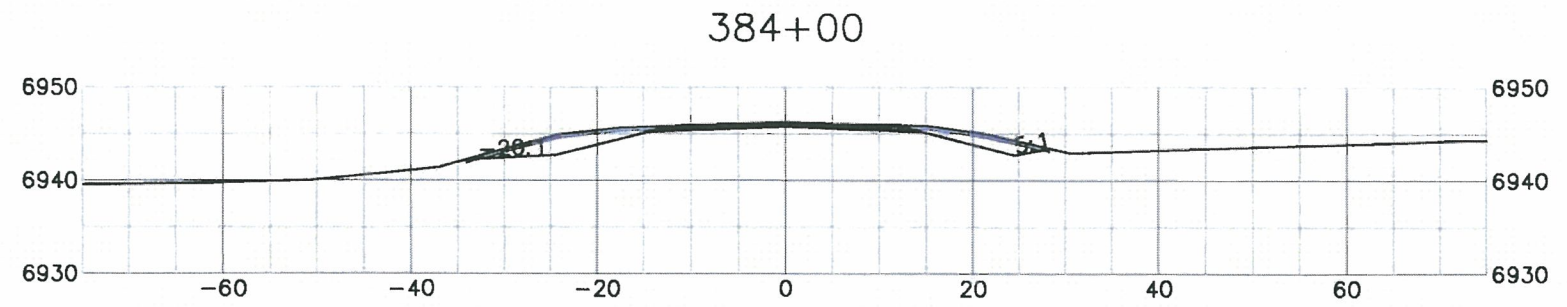
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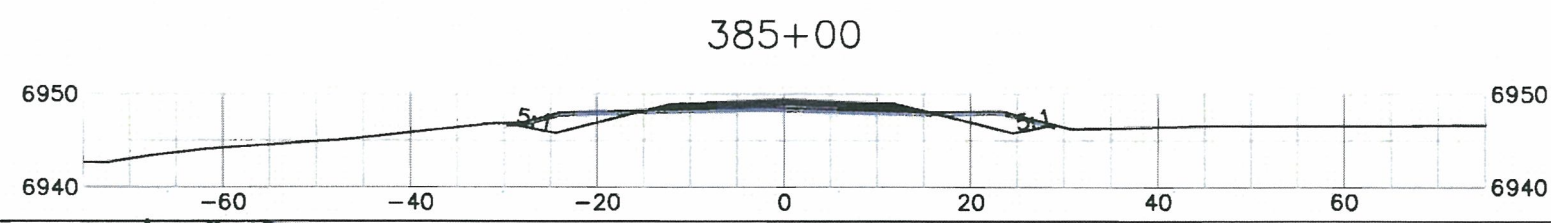
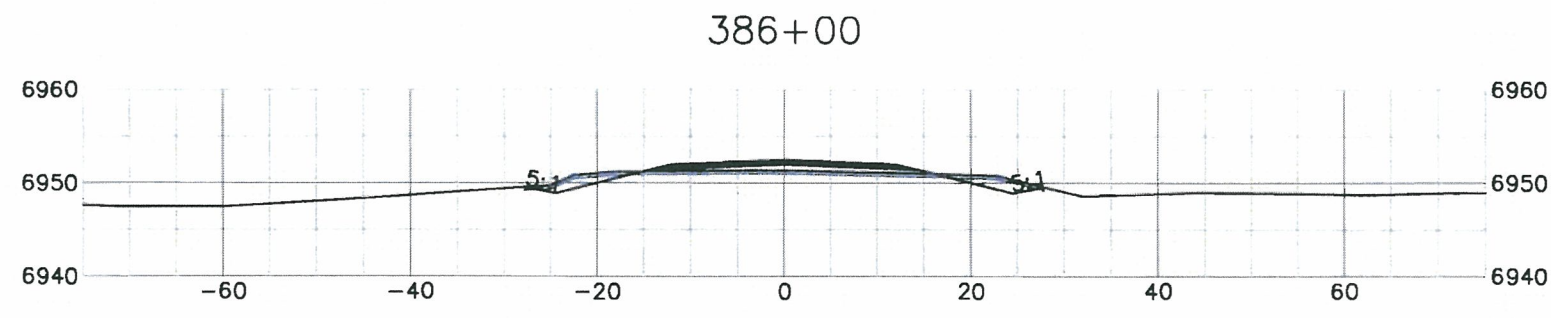
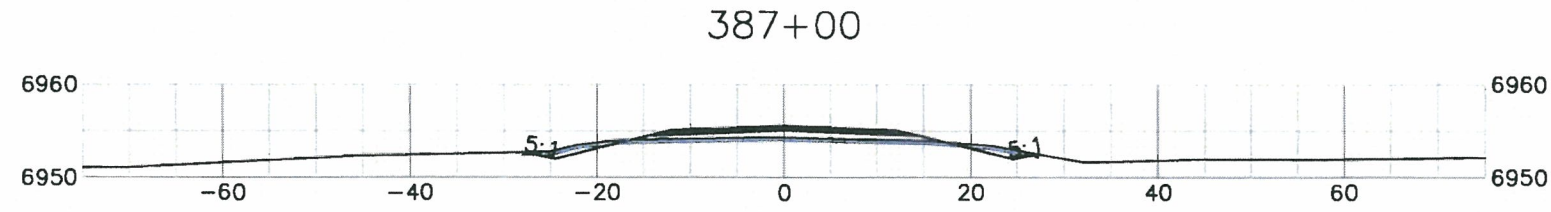
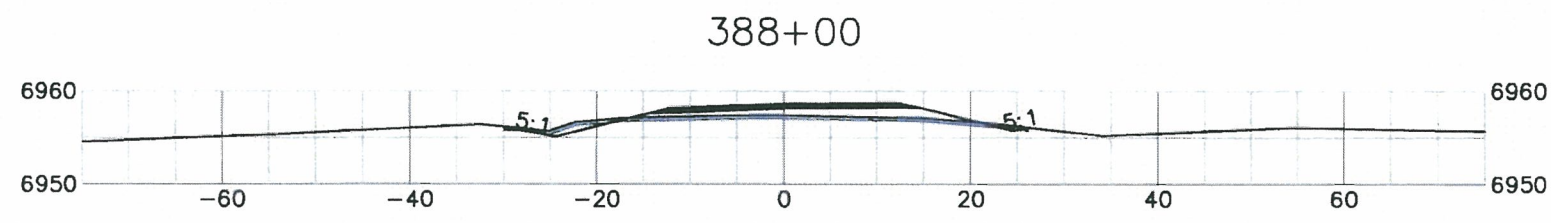
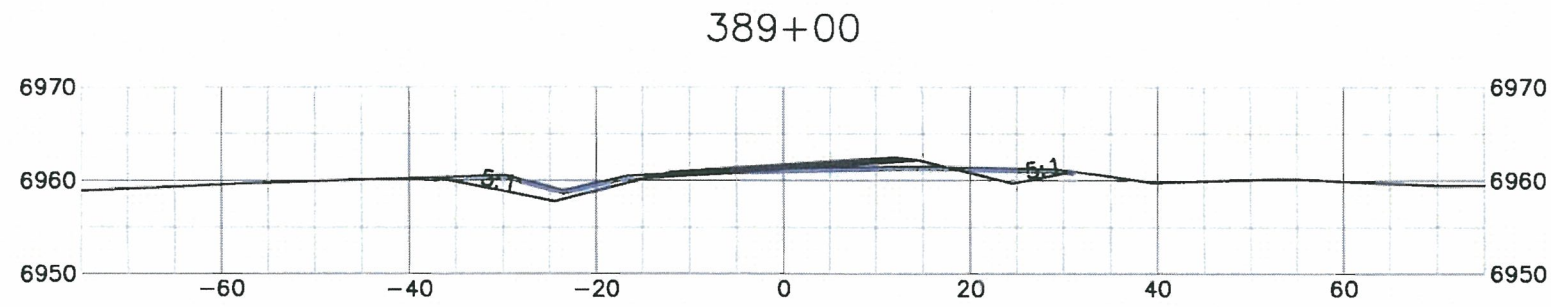
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**DRY CREEK ROAD  
CROSS SECTIONS**


SHEET  
**83** OF  
**87**

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CHK.	PAGE:	DATE:	1/20/11			



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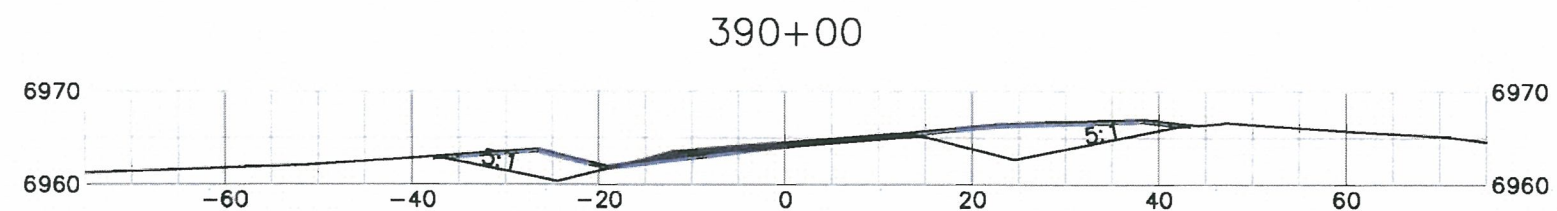
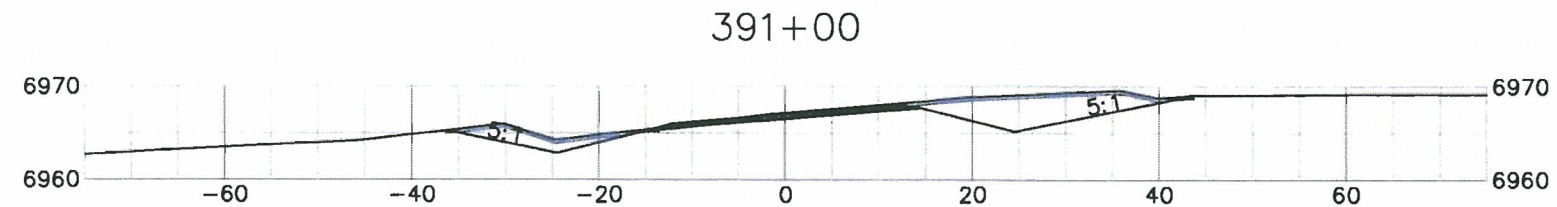
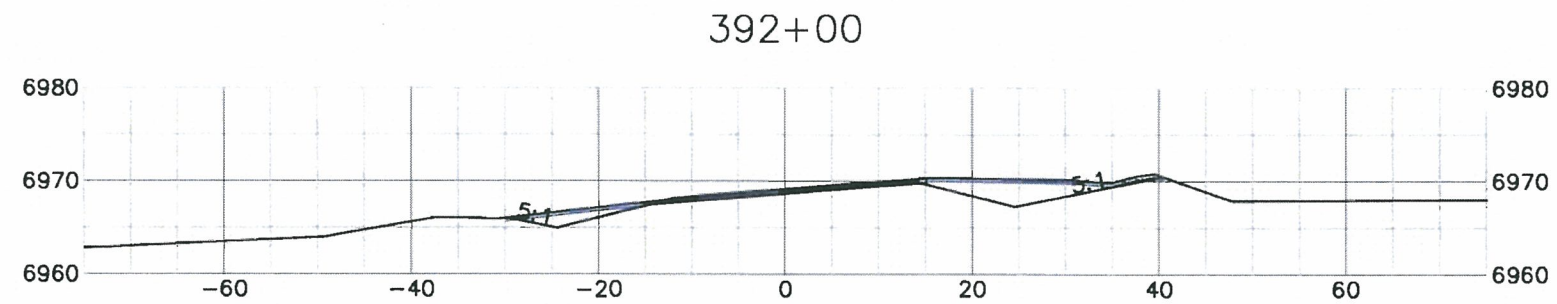
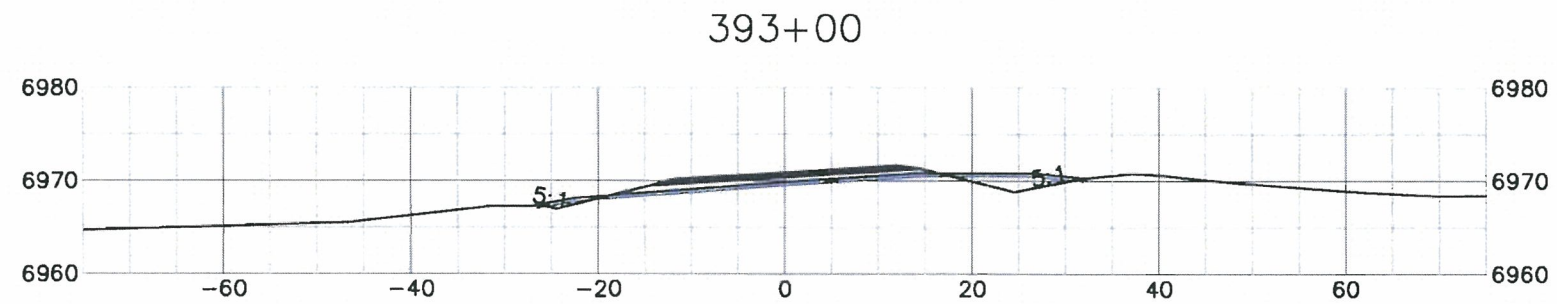
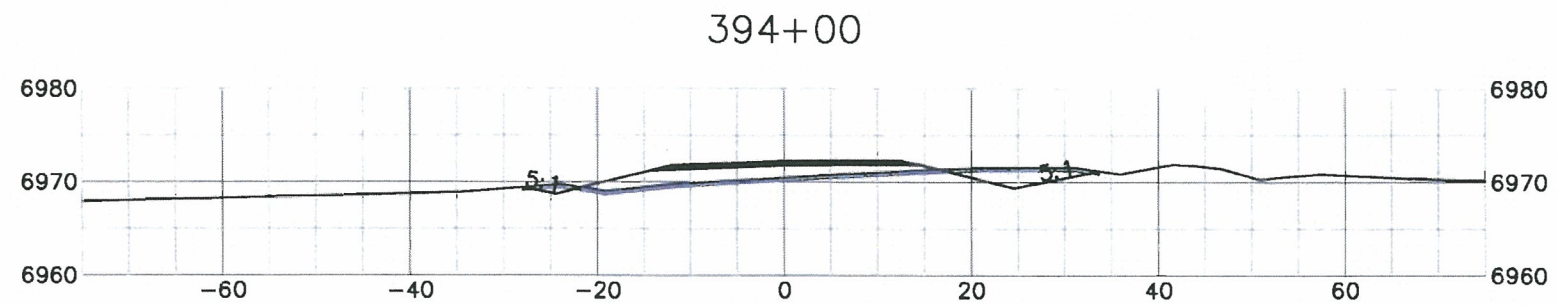
**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**84** OF  
**87**

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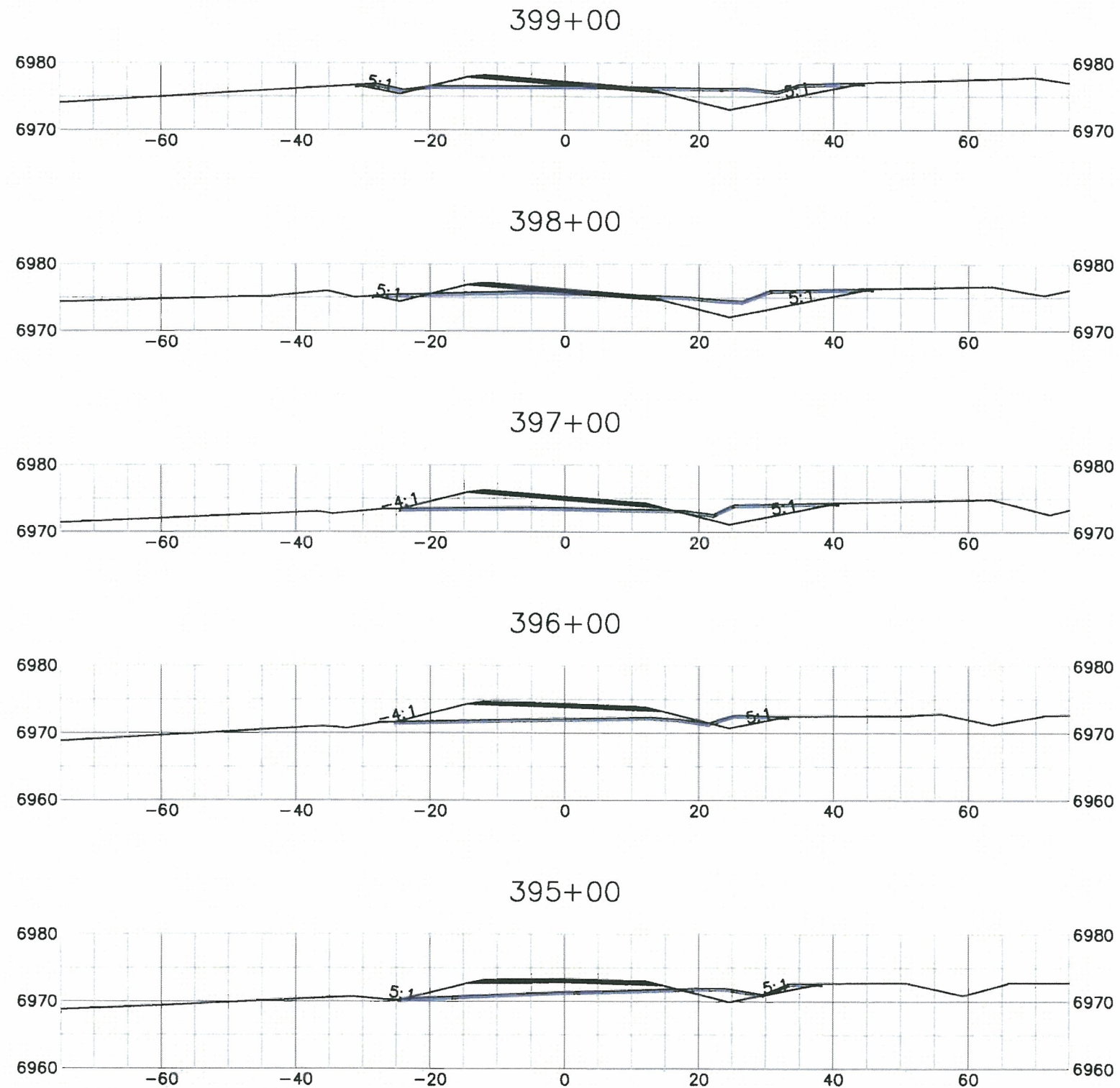
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**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**85** OF  
**87**

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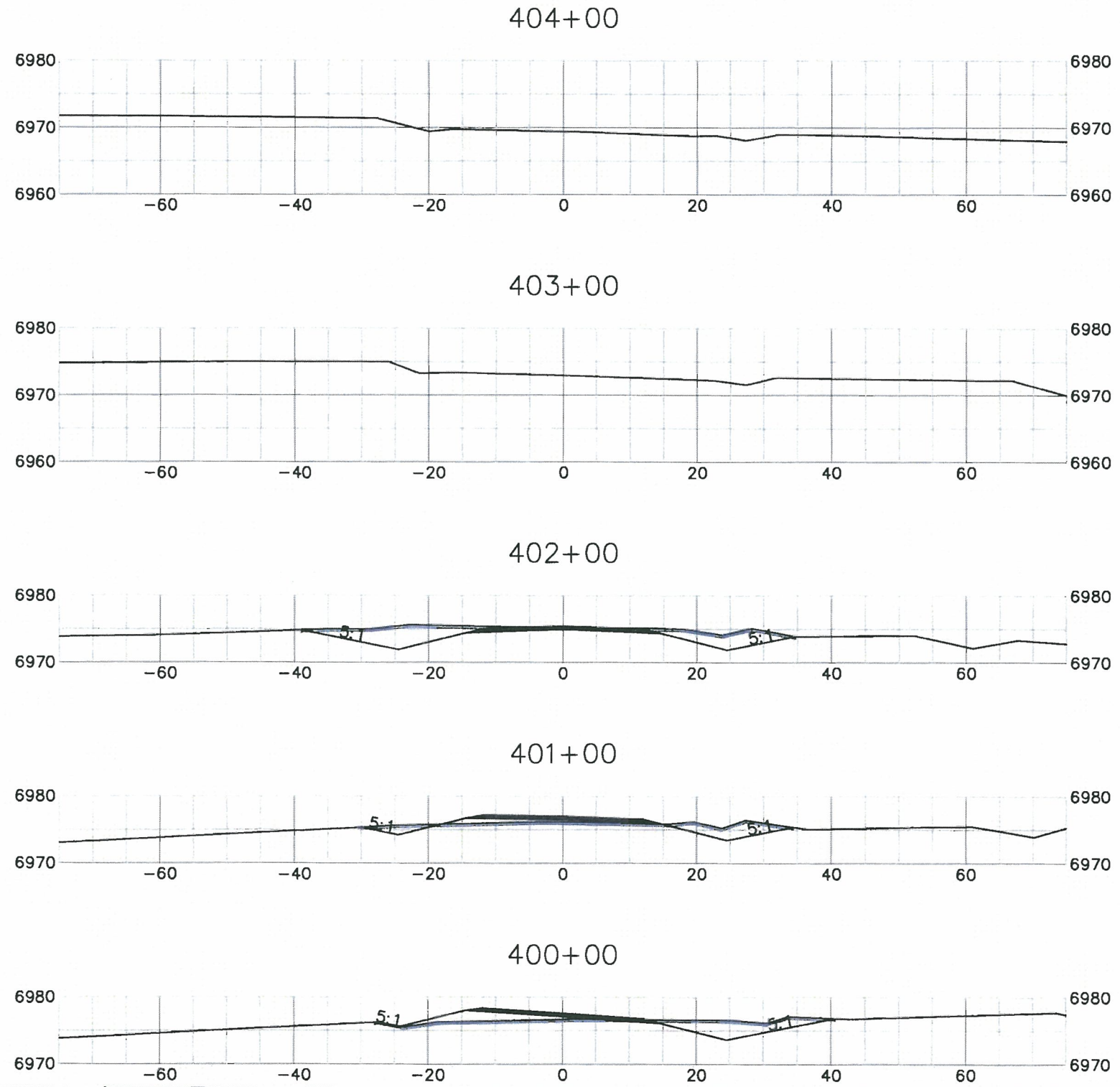
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**CAMECO RESOURCES**

**DRY CREEK ROAD  
CROSS SECTIONS**

SHEET  
**86**  
OF  
**87**

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**CAMECO RESOURCES**

**DRY CREEK ROAD  
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SHEET  
87 OF  
87

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# SPECIFICATIONS

For

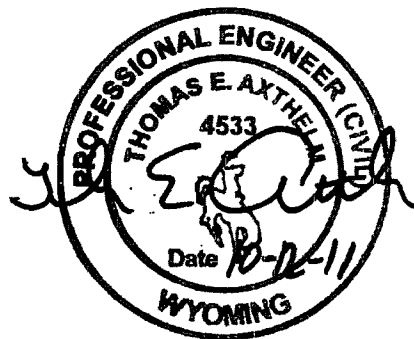
## DRY CREEK ROAD

FREMONT COUNTY, WYOMING

Prepared for

**Cameco Resources**  
550 North Poplar Street, Suite 100  
Casper, Wyoming 82601

January 20, 2011  
Revised October 12, 2011



Project No. 15235-RE

**INBERG-MILLER ENGINEERS**  
124 East Main Street  
Riverton, WY 82501

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**SPECIFICATIONS  
INDEX**

Wyoming Public Works Standard Specification .....	SP-1
<i>Special Provisions</i> .....	SP-2
01041 PROJECT COORDINATION .....	SP-2
02190 AGGREGATES .....	SP-3
02210 EXCAVATION AND EMBANKMENT .....	SP-4
02220 TRENCH EXCAVATION.....	SP-4
02225 TRENCH BACKFILL .....	SP-5
02231 AGGREGATE SUB-BASE AND BASE COURSE.....	SP-6
02280 TOPSOIL .....	SP-6
02805 RELOCATE STREET SIGNS, UTILITY POLES AND MAILBOXES .....	SP-6
02900 LANDSCAPING.....	SP-7
10001 STORM WATER CONTROL .....	SP-7
10002 TEMPORARY TRAFFIC CONTROL.....	SP-8
10003 PERMANENT TRAFFIC CONTROL .....	SP-9
10004 SNOW FENCE .....	SP-9
Snow Fence Standard Plan	



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**THE STANDARD SPECIFICATIONS GOVERNING THIS PROJECT SHALL BE THE  
WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS, 2001 EDITION  
OR AS AMENDED BY SPECIAL PROVISIONS**

The standard specifications specifically included for this project manual are listed below. Other related sections may be referred to for clarification.

01010	SUMMARY OF WORK
01041	PROJECT COORDINATION
01090	REFERENCES
01340	SUBMITTALS
01505	TEMPORARY FACILITIES
02050	REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS
02110	CLEARING AND GRUBBING
02115	SELECTIVE CLEARING
02190	AGGREGATES
02210	EXCAVATION AND EMBANKMENT
02220	TRENCH EXCAVATION
02225	TRENCH BACKFILL
02231	AGGREGATE SUB-BASE AND BASE COURSES
02280	TOPSOIL
02290	WATERING
02725	STORM DRAINS AND CULVERTS
02805	RELOCATE STREET SIGNS, UTILITY POLES AND MAILBOXES
02895	ENGINEERING FABRIC STANDARD DRAWINGS

## **SPECIAL PROVISIONS**

The Special Provisions will add to or revise certain sections of the Wyoming Public Works Standard Specifications, 2001 Edition. Revised paragraphs and additions will correspond to the standard numerical number and title designation. The Special Provisions may also include new sections of specifications not covered in the Standard Specifications and will be numerically numbered starting from Section 10001. All provisions which are not so amended or supplemented remain in full force and effect, except that all sections related to METHOD OF MEASUREMENT AND BASIS OF PAYMENT are to be deleted. The method of measurement and payment is to be determined by the Owner.

### **SECTION 01041 - PROJECT COORDINATION**

#### **PART 1 GENERAL**

1.01 B. Add the following:

The ENGINEER'S permission will be required for overtime and Saturday and Sunday work periods. The CONTRACTOR shall pay the OWNER for the Resident Project Representative services incurred while working overtime and Saturdays and Sundays.

1.02 E. Add the following:

The CONTRACTOR is responsible for traffic control, which will be coordinated with Fremont County Road and Bridge Department.

1.03 A. Add the following:

The engineering survey to be provided by the Owner is setting the control points which are shown on the drawings. Coordinates and elevations of the control points will be provided to the Contractor. The Contractor is to provide construction staking which at a minimum is to include the following:

1. Slope stakes at 100 foot increments along both sides of the road.
2. Grade finishing stakes for subgrade (redtops) at 50 foot increments along the centerline and both edges of the road.
3. Grade finishing stakes for aggregate surfacing (bluetops) at 50 foot increments along the centerline and both edges of the road.
4. Offset stakes for both ends of every culvert. The culverts shall be staked in the field and lengths checked to match the finished slopes prior to ordering the culverts.

5. If the Contractor utilizes heavy equipment that is equipped with approved Global Positioning System (GPS) grade control, the grade finishing stakes specified in item 2 and 3 above will not be required. The slope stakes and culvert stakes specified in items 1 and 4 above will still be required.

1.03 B. Delete this section and substitute the following:

CONTRACTOR shall perform the following Quality Control listed below and submit results to the ENGINEER. Testing shall be performed by a qualified laboratory. Qualifications shall be submitted to the ENGINEER for approval.

1. Observations to confirm that the exposed soil stratum has been properly prepared prior to placement of backfill or gravel surfacing
2. Perform a slump, air entrainment and mold cylinders for compressive strength every 100 cubic yards or every pour whichever is less.
3. Proctor Density Tests on all differing material and not less than five tests.
4. In-place density testing on gravel surfacing material every 2,500 square feet per lift.
5. In-place density testing on sub-grade and fill material every 2,500 square feet per lift.
6. In-place density testing in trenches every 100 linear foot per lift.
7. Gradation testing of gravel surfacing materials every 5,000 tons.

All other necessary testing shall be performed by the CONTRACTOR.

## **SECTION 02190 - AGGREGATES**

### **PART 2 PRODUCTS**

Add the following section:

#### **2.19 AGGREGATES FOR GRAVEL SURFACING**

- A. Aggregate for gravel surfacing shall conform to the aggregate requirements in section 2.03 A. and B. and meet a WYDOT gradation GR which is listed below:

<u>Sieve Designation</u>	<u>Percentage Passing by Weight</u>
1"	100
¾"	90-100
½"	65-85
#4	50-78
#8	37-67
#30	13-35
#200	4-15

**SECTION 02210 - EXCAVATION AND EMBANKMENT**

**PART 3 EXECUTION**

**3.02 MOISTURE AND DENSITY CONTROL**

- A. Revise to read as follows:

The CONTRACTOR shall provide watering and rolling as required to obtain the density of 95% of maximum dry density as determined by AASHTO T-99 (Standard Proctor) for all the embankment placed. No separate pay compensation shall be allowed for rolling and watering other than the earthwork bid item or items listed on the Proposal. Water content shall be within plus or minus three percent of optimum.

- B. Revise to read as follows:

Within the areas indicated on the plans or as directed by the ENGINEER, earth shall be removed to the designated depth below subgrade, except for the lower six-inch (6") layer. This six-inch (6") layer shall be thoroughly scarified, the moisture content increased or reduced as necessary, and then compacted to not less than 90 percent of the AASHTO T-99 maximum dry density.

**SECTION 02220 - TRENCH EXCAVATION**

**PART 3 EXECUTION**

**3.13 DEWATERING**

- A. Add the following:

The cost of dewatering operations will not be paid as a separate item, but shall be merged with and considered a part of the excavation costs.

- D. Add the following:

If dewatering is necessary, the CONTRACTOR shall be responsible for completing and submitting the "Notice of Intent" to the Wyoming Department of Environmental Quality, as the applicant, and complying with the effluent limitations and monitoring requirements.

## **SECTION 02225 - TRENCH BACKFILL**

### **PART 2 PRODUCTS**

#### 2.01 MATERIALS

##### A. PIPE BEDDING MATERIAL

1. Revise the third sentence to read as follows:

Bedding material shall be free from clods, frozen material, or stones larger than 1½ inches in their maximum dimension.

### **PART 3 EXECUTION**

#### 3.01 CONSTRUCTION

##### B. TYPE A TRENCH BACKFILL

1. Revise the last sentence of this section to reflect that required trench backfill compaction is at least 95% of maximum density as determined by Standard Proctor.

Add the following:

5. Use Type A trench backfill for all trenches unless specified otherwise by the ENGINEER.

## **SECTION 02231 - AGGREGATE SUB-BASE AND BASE COURSE**

### **PART 1 GENERAL**

#### 1.01 SUMMARY

- ##### A. Add the following:

The gravel surfacing shall be constructed in conformance with this section of the specifications.

### **PART 3 EXECUTION**

#### 3.03 SHAPING AND COMPACTION

- ##### C. Replace the first two sentences with the following:

Each layer shall be compacted to 95% of maximum dry density as determined by AASHTO T-99 (Standard Proctor).

**SECTION 02280 - TOPSOIL**

**PART 3 EXECUTION**

3.01 STRIPPING AND STORING TOPSOIL

- A. Add the following:

Topsoil shall be stripped to a depth of approximately 4 inches or as determined by the ENGINEER.

3.02 PREPERATION OF AREAS

- B. Add the following:

Topsoil shall be replaced on all areas beyond the gravel surfacing or as determined by the ENGINEER.

**SECTION 02805 - RELOCATE STREET SIGNS, UTILITY POLES AND MAILBOXES**

**PART 3 EXECUTION**

3.01 CONSTRUCTION METHODS

Add the following Sections:

- J. Any fences removed for CONTRACTOR'S convenience shall be removed and replaced to their original condition.

**SECTION 02900 – LANDSCAPING**

**PART 2 PRODUCTS**

2.01 PRODUCTS

- G. Shall be replaced with the following:

Dryland seed with the following guaranteed pure live seed per acre:

6 pounds Critana Thickspike Wheatgrass  
4 pounds Sodar Streambank Wheatgrass  
3 pounds Nezpar Indian Ricegrass  
2 pounds Pryor Slender Wheatgrass  
1 pound Covar Sheep Fescue  
Total 16 pounds pure live seed per acre

### **PART 3 EXECUTION**

#### **3.01 INSTALLATION**

- E. Add the following:
5. All disturbed areas shall have seeding, fertilizer and mulch applied in accordance with the requirements of this specification.

### **SECTION 10001 – STORM WATER CONTROL**

#### **PART 1 GENERAL**

##### **1.01 SUMMARY**

- A. This work consists of applying for and securing approval for an Environmental Protection Agency (EPA) or Wyoming Department of Environmental Quality (WDEQ) GENERAL PERMIT for STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES and, where necessary, INDUSTRIAL ACTIVITIES; developing, implementing and monitoring a STORM WATER POLLUTION CONTROL PLAN for the project including all temporary erosion control measures necessary, in addition to those specified on the plans and all associated labor, materials, equipment, and incidentals necessary to fully implement the plan and comply with all rules, regulations, and restrictions imposed by EPA or WDEQ as part of the GENERAL PERMIT PROGRAM.

#### **PART 2 PRODUCTS**

##### **EROSION CONTROL MATERIALS**

- A. All necessary erosion control materials such as silt fences, straw bales, riprap, etc. shall be provided by the CONTRACTOR.

#### **PART 3 EXECUTION**

##### **3.01 PERMITTING**

- A. The CONTRACTOR shall prepare, submit, and receive approval for a GENERAL PERMIT and STORM WATER POLLUTION CONTROL PLAN.
- B. EPA is the permitting authority for all lands on the Wind River Indian Reservation. The Wyoming Department of Environmental Quality, Water Quality Division is the permitting authority for all other lands within the State. WDEQ General Permit applications and information can be secured by contacting:



Wyoming Department of Environmental Quality  
Water Quality Division  
Permit Section  
122 West 25<sup>th</sup> Street  
Herschler Building, 4 West  
Cheyenne, WY 82002  
(307) 777-7781

### 3.02 CONSTRUCTION

- A. The CONTRACTOR shall provide a copy of the approved GENERAL PERMIT and STORM WATER POLLUTION CONTROL PLAN to the ENGINEER prior to commencing any work on the project. As the work progresses, the CONTRACTOR shall provide the ENGINEER with copies of all required monitoring reports and necessary plan revisions. The information submitted is not approval of the ENGINEER but is information and will be used for pay documentation of the storm water control bid item.
- B. The CONTRACTOR shall implement and modify, where necessary, the Storm Water Pollution Control Plan as the work progresses.
- C. Upon completion of the project, the CONTRACTOR shall continue with the responsibilities as the permit holder.

## **SECTION 10002 –TEMPORARY TRAFFIC CONTROL**

### **PART 1 GENERAL**

#### 1.01 SUMMARY

- A. This section includes providing and installing temporary signs and markings to maintain the flow of traffic during construction.

### **PART 2 PRODUCTS**

#### 2.01 TRAFFIC CONTROL PLAN

- A. A traffic control plan approved by the Fremont County Transportation Department.

### **PART 3 EXECUTION**

#### 3.01 TRAFFIC CONTROL

- A. Traffic access must be maintained during all phases of the construction. Traffic control is to be in accordance with the Manual of Uniform Traffic Control Devices.
- B. All work must be completed at the end of the day to permit access.

- C. The traffic control plan must be approved by the County before construction starts.

## **SECTION 10003 – PERMANENT TRAFFIC CONTROL**

### **PART 1 GENERAL**

#### 1.01 SUMMARY

- A. This section includes providing and installing permanent signs and pavement markings.

### **PART 2 PRODUCTS**

#### 2.01 ROADSIDE SIGNS

- A. Signs shall be manufactured in accordance with the Wyoming Department of Transportation's Standard Specifications for Road and Bridge Construction, 2003 Edition and the Manual on Uniform Traffic Control Devices for Streets and Highways, current edition.
- B. Signs shall be mounted on either steel or timber posts in accordance with the above-mentioned standards.

### **PART 3 EXECUTION**

#### 3.01 ROADSIDE SIGNS

- A. Signs shall be installed in accordance with standard practice and the Wyoming Department of Transportation Standard Specifications for Road and Bridge Construction, 2003 edition. Signs shall be mounted a minimum of 7 feet measured from the bottom of the sign to the nearest edge of road surface.

## **SECTION 10004 – SNOW FENCE**

### **PART 1 GENERAL**

#### 1.01 SUMMARY

- A. This section covers providing and installing snow fence.

### **PART 2 PRODUCTS**

#### 2.01 SNOW FENCE

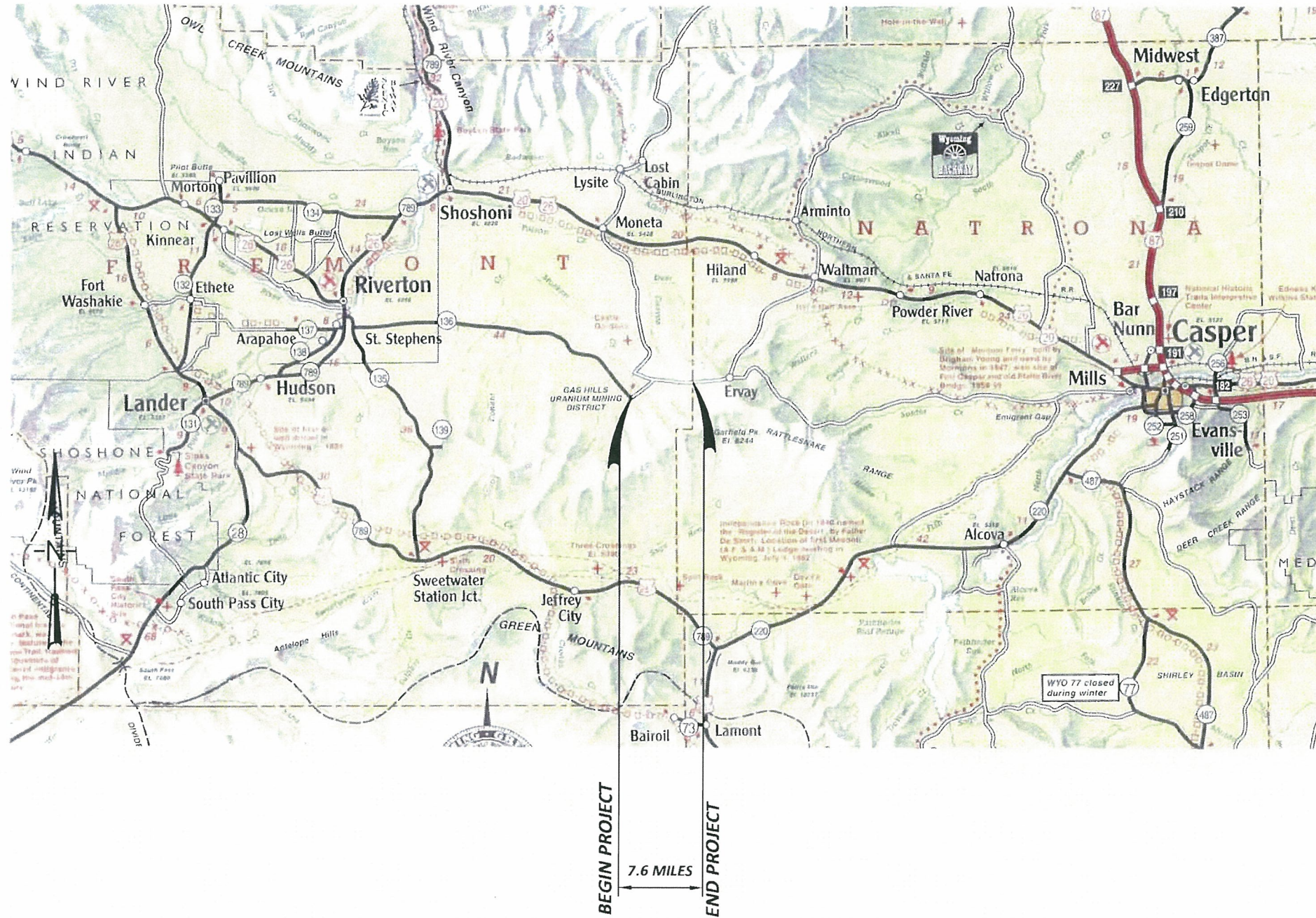
- A. Snow fence components shall comply the Wyoming Department of Transportation's (WYDOT) Standard Specifications for Road and Bridge Construction, 2003.

**PART 3 EXECUTION**

**3.01 SNOW FENCE**

- A. Snow fence shall be installed in accordance with WYDOT Standard Specifications for Road and Bridge Construction, 2003 edition. Snow fence shall be constructed in accordance with WYDOT Standard Plan G16-1, except the fence height shall be 8 feet instead of 10 feet.

# DRY CREEK ROAD FREMONT COUNTY, WYOMING



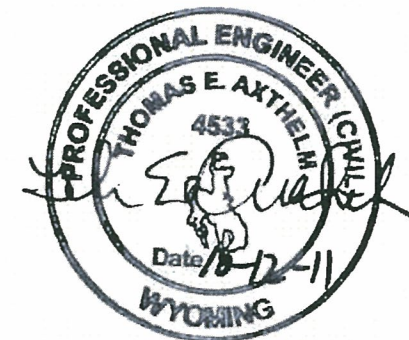
### SHEET INDEX

- 1 TITLE SHEET
- 2 NOTES
- 3-18 PLAN AND PROFILE
- 19-21 DETAILS

### OTHER DRAWINGS

- 1-6 CULVERT SECTIONS
- 1-87 ROAD CROSS SECTIONS

REVISED AND ISSUED  
OCT 12, 2011



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SCALE	HORZ NTS	VERT	REVISIONS
DRN. BES	BK:	JOB NO. 15235-RE	
CHK. TEA	PAGE:	DATE: 1-20-11	



**INBERG-MILLER ENGINEERS**

124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394
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**CAMECO RESOURCES**

**DRY CREEK ROAD  
TITLE SHEET**

SHEET  
**1** OF  
**21**

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**CONTROL POINTS**

POINT NUMBER	PLAN NORTHING	PLAN EASTING	ELEV.	S.P.C. NORTHING	S.P.C. EASTING	WGS 1984 LATITUDE	WGS 1984 LONGITUDE	DESCRIPTION
200	94352.84	132656.94	6953.31	794145.88	832440.00	42°50'21.89658"N	107°30'40.15650"W	FOUND ALUMINUM CAP
201	94310.16	130015.97	6793.04	794103.21	829799.72	42°50'21.85713"N	107°31'15.59637"W	FOUND BRASS CAP
202	94395.48	135297.86	6973.07	794188.51	835080.24	42°50'21.93264"N	107°30'04.71721"W	FOUND BRASS CAP
203	91933.46	135341.47	6942.23	791727.13	835123.83	42°49'57.61790"N	107°30'04.62176"W	FOUND BRASS CAP
204	91420.80	108957.14	6368.36	791214.61	808746.38	42°49'56.26518"N	107°35'58.65987"W	FOUND BRASS CAP
205	85650.88	104572.69	6531.05	785446.19	804363.07	42°48'59.88143"N	107°36'58.51899"W	FOUND BRASS CAP USGS "LAKE"
206	83495.56	103889.53	6458.69	783291.43	803680.09	42°48'38.69094"N	107°37'08.06927"W	FOUND BRASS CAP
1107	90834.44	110581.65	6441.22	790628.40	810370.46	42°49'50.25610"N	107°35'36.97515"W	SET REBAR AND ALUMINUM CAP
1113	91650.87	115986.79	6594.48	791444.62	815774.20	42°49'57.57835"N	107°34'24.31475"W	SET REBAR AND ALUMINUM CAP
1118	91910.08	125952.72	6618.76	791703.76	825737.53	42°49'58.74184"N	107°32'10.57368"W	SET REBAR AND ALUMINUM CAP
1119	93771.02	128458.42	6721.56	793564.21	828242.58	42°50'16.75781"N	107°31'36.59767"W	SET REBAR AND ALUMINUM CAP

WGS 1984 VALUES DETERMINED BY NGS OPUS SOLUTION ORIGINATING AT POINT NUMBER 200.  
 STATE PLANE COORDINATES (GRID) ARE RELATIVE TO NAD 1927 (WYOMING WEST CENTRAL ZONE), ELEVATIONS ARE RELATIVE TO NGVD 1929.  
 PLAN COORDINATES ARE RELATIVE TO GROUND VALUES BEING MODIFIED BY SCALING THE STATE PLANE COORDINATES BY A COMBINATION FACTOR OF 1.000260603 THEN DEDUCTING 700,000 FROM THE COORDINATE VALUES.

**NOTE**

- 1.) The utility locations shown are as marked by their owners, from the owners records or from field evidence. The size and location of underground utilities was not verified by excavation. The contractor is responsible for locating and protecting utilities during construction.
- 2.) Contractor is to remove and salvage all existing signs within the construction limits and reset them when construction is completed.

**SIGN TABLE**

NUMBER	SIGN	MUTCD	SIZE	LOCATION
1	CURVE WARNING SIGN	W1-2	30"x30"	98+20 RT
1	SPEED ADVISORY SIGN (40MPH)	W13-1	18"x18"	98+20 RT
2	CURVE WARNING SIGN	W1-2	30"x30"	106+20 LT
2	SPEED ADVISORY SIGN (40MPH)	W13-1	18"x18"	106+20 LT
3	CURVE WARNING SIGN	W1-2	30"x30"	119+25 RT
3	SPEED ADVISORY SIGN (25MPH)	W13-1	18"x18"	119+25 RT
4	CURVE WARNING SIGN	W1-2	30"x30"	127+40 LT
4	SPEED ADVISORY SIGN (25MPH)	W13-1	18"x18"	127+40 LT
5	CURVE WARNING SIGN	W1-2	30"x30"	134+00 RT
5	SPEED ADVISORY SIGN (35MPH)	W13-1	18"x18"	134+00 RT
6	CURVE WARNING SIGN	W1-2	30"x30"	140+30 LT
6	SPEED ADVISORY SIGN (35MPH)	W13-1	18"x18"	140+30 LT
7	CURVE WARNING SIGN	W1-2	30"x30"	375+10 RT
7	SPEED ADVISORY SIGN (35MPH)	W13-1	18"x18"	375+10 RT
8	CURVE WARNING SIGN	W1-2	30"x30"	382+30 LT
8	SPEED ADVISORY SIGN (35MPH)	W13-1	18"x18"	382+30 LT
9	WINDING ROAD WARNING SIGN	W1-5	30"x30"	387+80 RT
9	SPEED ADVISORY SIGN (25MPH)	W13-1	18"x18"	387+80 RT
10	WINDING ROAD WARNING SIGN	W1-5	30"x30"	401+30 LT
10	SPEED ADVISORY SIGN (25MPH)	W13-1	18"x18"	401+30 LT



















**NOTES:**

1. SIGNS WITH THE SAME NUMBER DESIGNATION SHALL BE MOUNTED ON THE SAME SIGN POST
2. SIGN POSTS SHALL BE INSTALLED PER MUTCD AND FREMONT COUNTY STANDARDS.

**ABBREVIATIONS**

- NTS - NOT TO SCALE
- PC - POINT OF CURVATURE
- PT - POINT OF TANGENCY
- PI - POINT OF INTERSECTION
- PVI - POINT OF VERTICAL INTERSECTION
- BVCS - BEGIN VERTICAL CURVE STATION
- BVCE - BEGIN VERTICAL CURVE ELEVATION
- EVCS - END VERTICAL CURVE STATION
- EVCE - END VERTICAL CURVE ELEVATION
- LVC - LENGTH OF VERTICAL CURVE
- e - SUPERELEVATION RATE
- C - RUNOUT LENGTH
- S - RUNOFF LENGTH
- Δ - DELTA
- R - RADIUS
- L - LENGTH
- T - TANGENT LENGTH
- NC - NORMAL CROWN
- BE - BEVELED END
- FE - FLARED END
- SPC - STATE PLANE COORDINATES

**LEGEND**

-  FOUND BRASS CAP
-  FOUND ALUMINUM CAP
-  SET 5/8"X24" REBAR W/ ALUMINUM CAP STAMPED IME LS5134
-  SURVEY CONTROL POINT
-  EXISTING FENCE
-  PROPOSED EDGE OF DISTURBANCE
-  PROPOSED APPROACH
-  EXISTING CULVERT
-  PROPOSED CULVERT
-  PROPOSED DITCH
-  EXISTING TREE LINE
-  EXISTING CONTOUR (2' INTERVAL)
-  EXISTING POWER POLE
-  EXISTING UNDERGROUND PHONE
-  EXISTING UNDERGROUND ELECTRIC
-  EXISTING NATURAL GAS
-  EXISTING FIBER OPTIC
-  EXISTING OVERHEAD ELECTRIC

SCALE	HORZ	VERT	REVISIONS
DRN. MDH	BK:	JOB NO. 15235-RE	
CHK. TEA	PAGE:	DATE: 1-20-11	

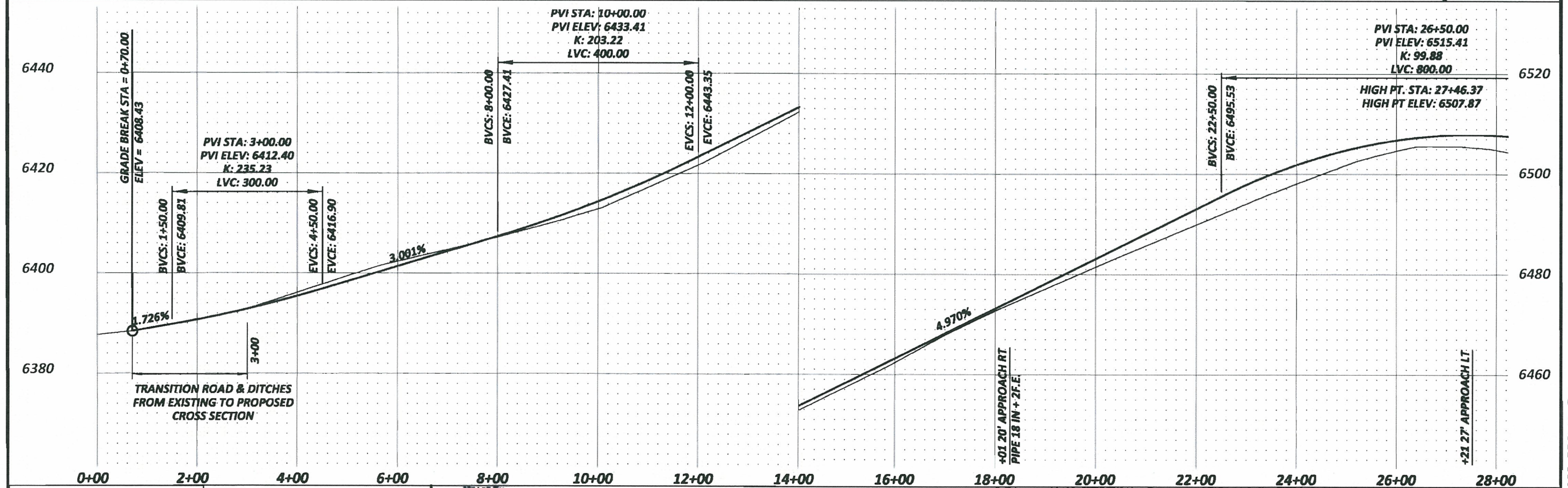
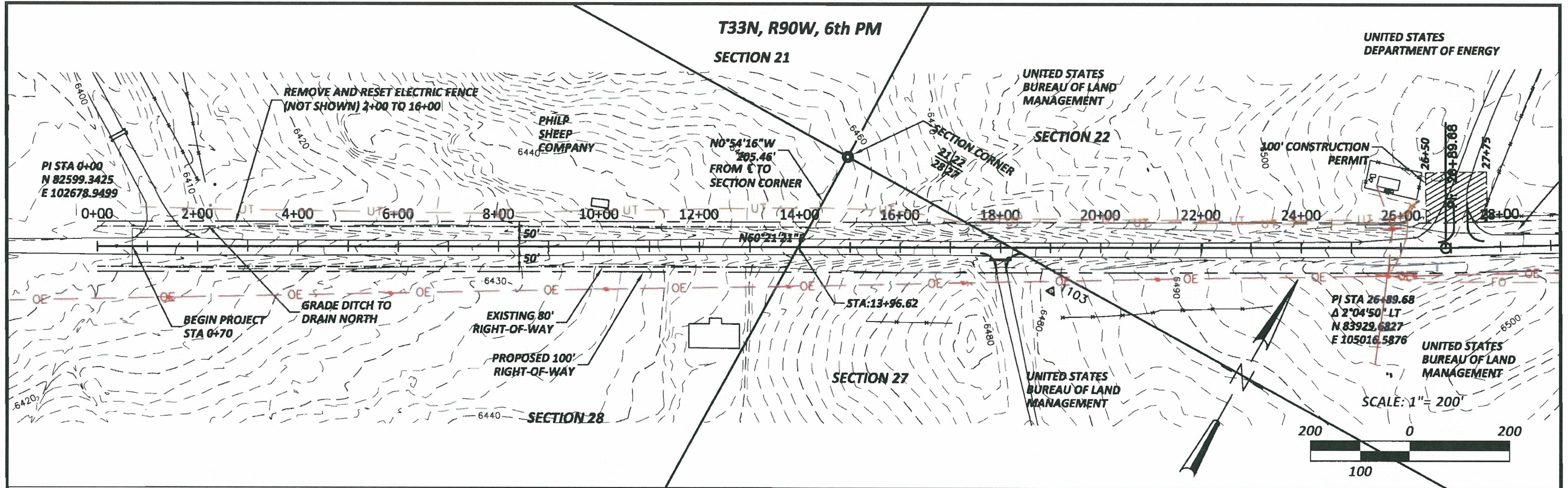


**INBERG-MILLER ENGINEERS**  
 124 East Main Street, Riverton, WY 82501, 307-856-8136  
 1120 East C Street, Casper, WY 82601, 307-577-0806  
 350 Parsley Boulevard, Cheyenne, WY 82007, 307-635-6827  
 257 Alan Road, Powell, WY 82435, 307-754-7170  
 193 Flaming Gorge Way, Green River, WY 82935, 307-875-4394

**CAMECO RESOURCES**

**DRY CREEK ROAD NOTES**

SHEET 2 OF 21



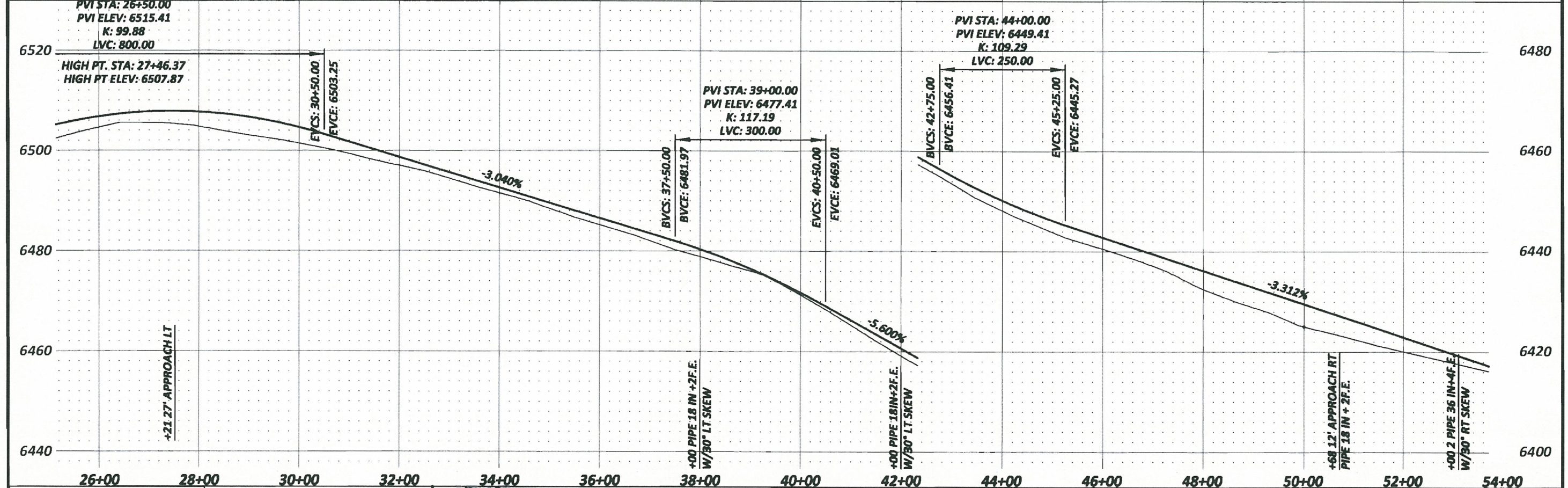
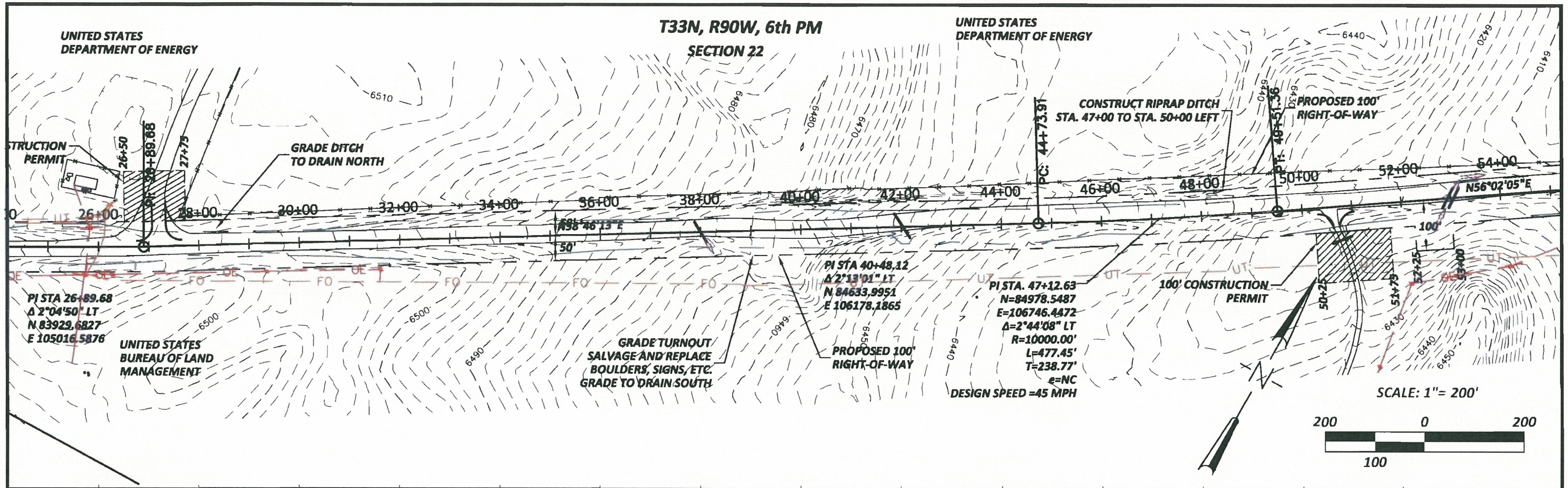
SCALE: HORZ 1"=200 VERT 1"=20'		REVISIONS		<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street, Riverton, WY 82501   307-856-8136 1120 East C Street, Casper, WY 82601   307-577-0806 350 Parsley Boulevard, Cheyenne, WY 82007   307-635-6827 257 Alan Road, Powell, WY 82435   307-754-7170 193 Flaming Gorge Way, Green River, WY 82935   307-875-4394					<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET <b>3</b> OF <b>21</b>	
DRN: BES	BK: 15235-RE	JOB NO: 15235-RE	DATE: 1-20-11	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS; SHIFT ALIGNMENT										

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T33N, R90W, 6th PM  
SECTION 22



SCALE	HORZ 1" = 200' VERT 1" = 20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS; SHIFT ALIGNMENT, CHANGE APPROACH WIDTH 56+30, ADJUST ELECTRICAL LINES	10/12/11 ADD RIPRAP DITCH 47+00 TO 50+00
DRN. BES	BK:	JOB NO.	15235-RE	
CHK. MWB	PAGE:	DATE:	1-20-11	



**INBERG-MILLER ENGINEERS**  
 124 East Main Street Riverton, WY 82501 307-856-8136  
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 193 Flaming Gorge Way Green River, WY 82935 307-875-4394

**CAMECO RESOURCES**

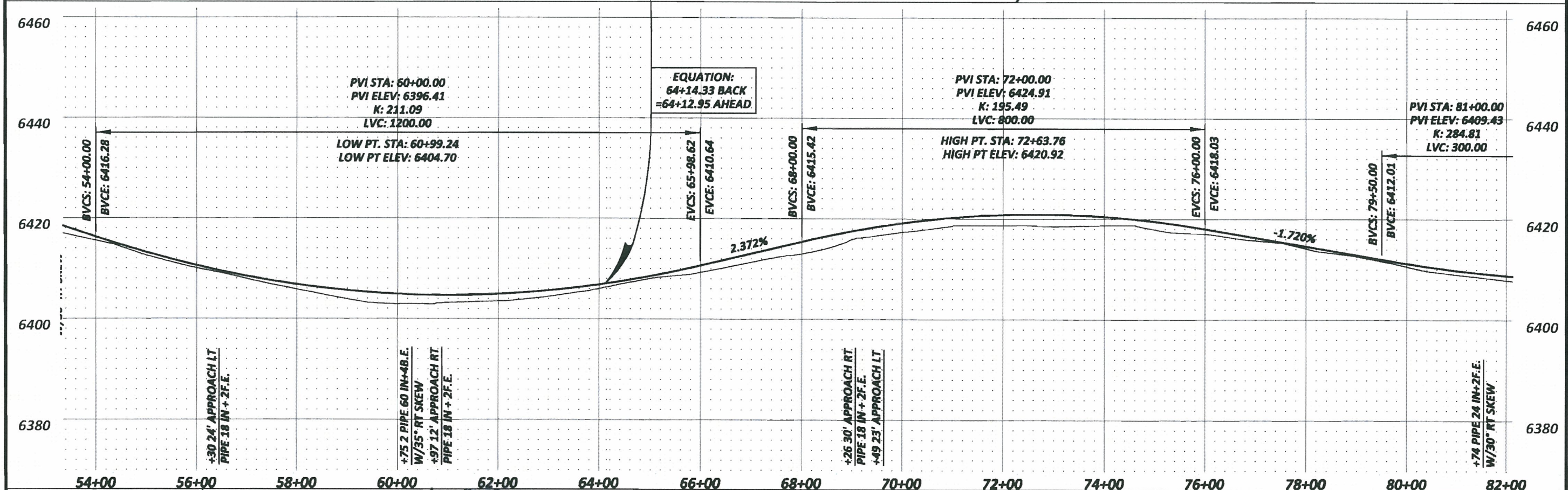
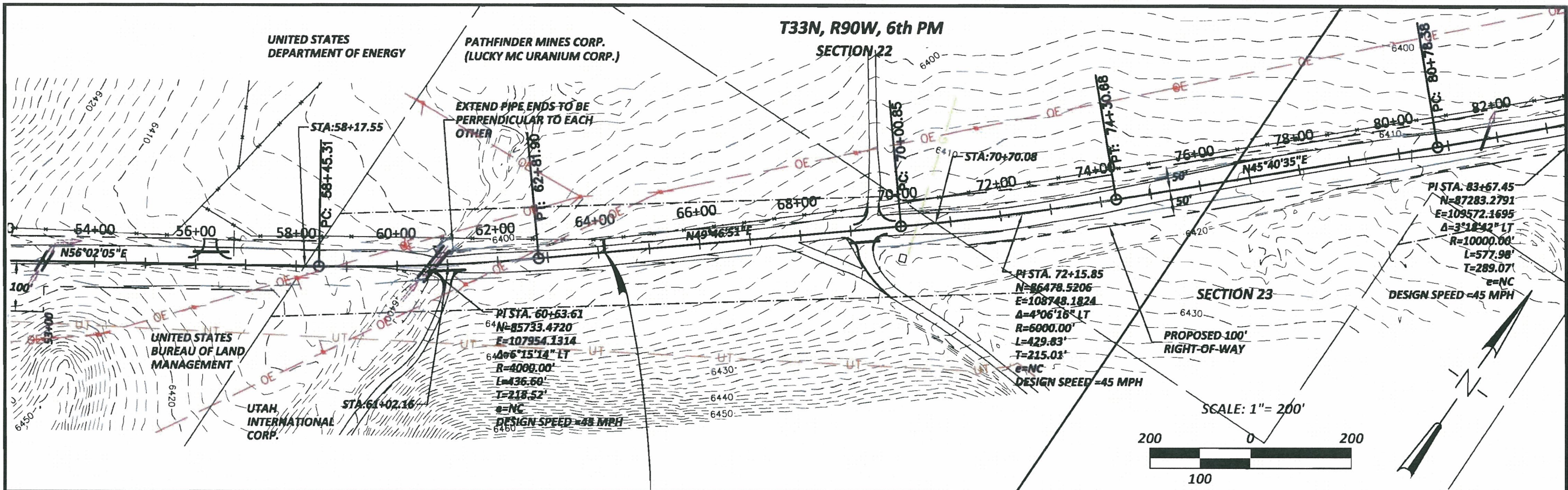
**DRY CREEK ROAD  
PLAN & PROFILE**

SHEET 4 OF 21

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SCALE	HORZ 1" = 200'	VERT 1" = 20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS AND SHIFT CULVERT 60+75 & 81+74.						<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street Riverton, WY 82501 307-856-8136					1120 East C Street Casper, WY 82601 307-577-0806					350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827					257 Alan Road Powell, WY 82435 307-754-7170					193 Flaming Gorge Way Green River, WY 82935 307-875-4394					<b>CAMECO RESOURCES</b>					<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>					SHEET 5 OF 21	
DRN. BES	BK:	JOB NO.	15235-RE							124 East Main Street Riverton, WY 82501 307-856-8136					1120 East C Street Casper, WY 82601 307-577-0806					350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827					257 Alan Road Powell, WY 82435 307-754-7170					193 Flaming Gorge Way Green River, WY 82935 307-875-4394					<b>CAMECO RESOURCES</b>					<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>					SHEET 5 OF 21	
CHK. MWB	PAGE:	DATE:	1-20-11							124 East Main Street Riverton, WY 82501 307-856-8136					1120 East C Street Casper, WY 82601 307-577-0806					350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827					257 Alan Road Powell, WY 82435 307-754-7170					193 Flaming Gorge Way Green River, WY 82935 307-875-4394					<b>CAMECO RESOURCES</b>					<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>					SHEET 5 OF 21	

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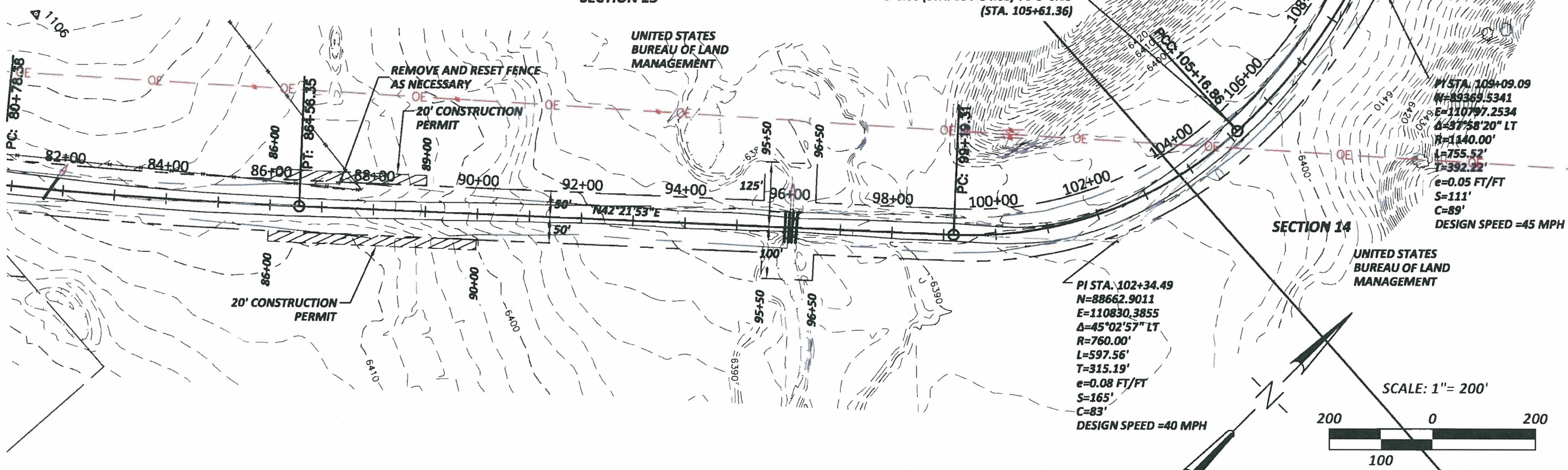
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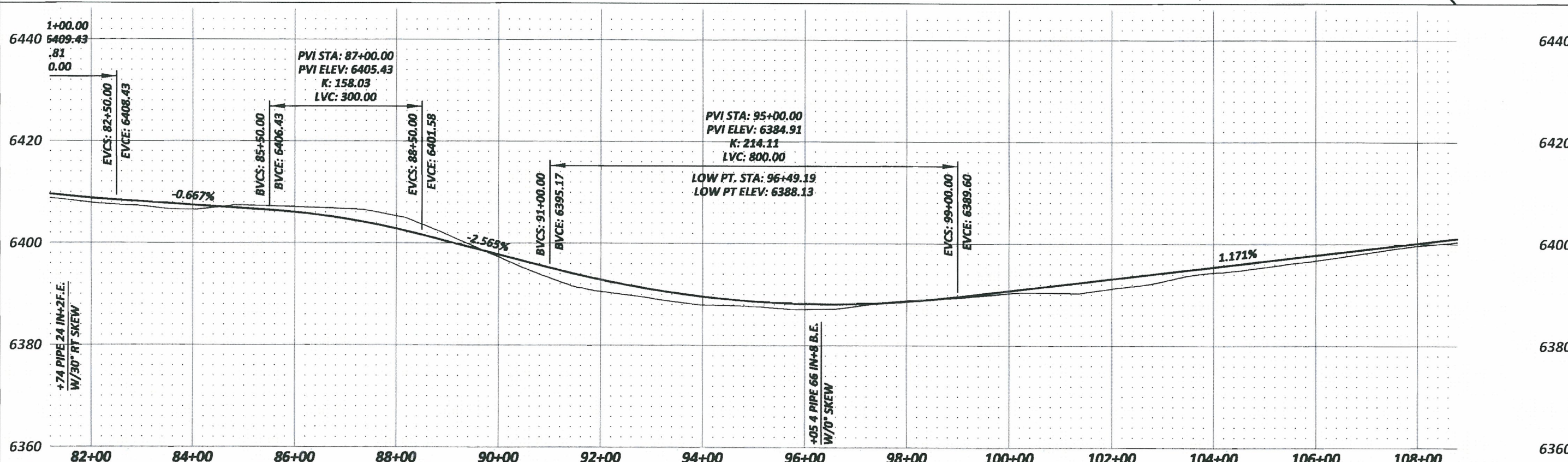
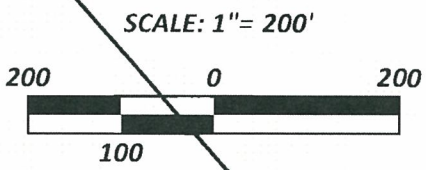
T33N, R90W, 6th PM  
SECTION 23

S=67' FOR RUNOFF FROM  
e=0.08 (STA. 104+94.61) TO e=0.05  
(STA. 105+61.36)



PI STA. 109+09.09  
N=88369.5341  
E=110797.2534  
Δ=97°58'20" LT  
R=1140.00'  
L=755.52'  
T=392.22'  
e=0.05 FT/FT  
S=111'  
C=89'  
DESIGN SPEED =45 MPH

PI STA. 102+34.49  
N=88662.9011  
E=110830.3855  
Δ=45°02'57" LT  
R=760.00'  
L=597.56'  
T=315.19'  
e=0.08 FT/FT  
S=165'  
C=83'  
DESIGN SPEED =40 MPH

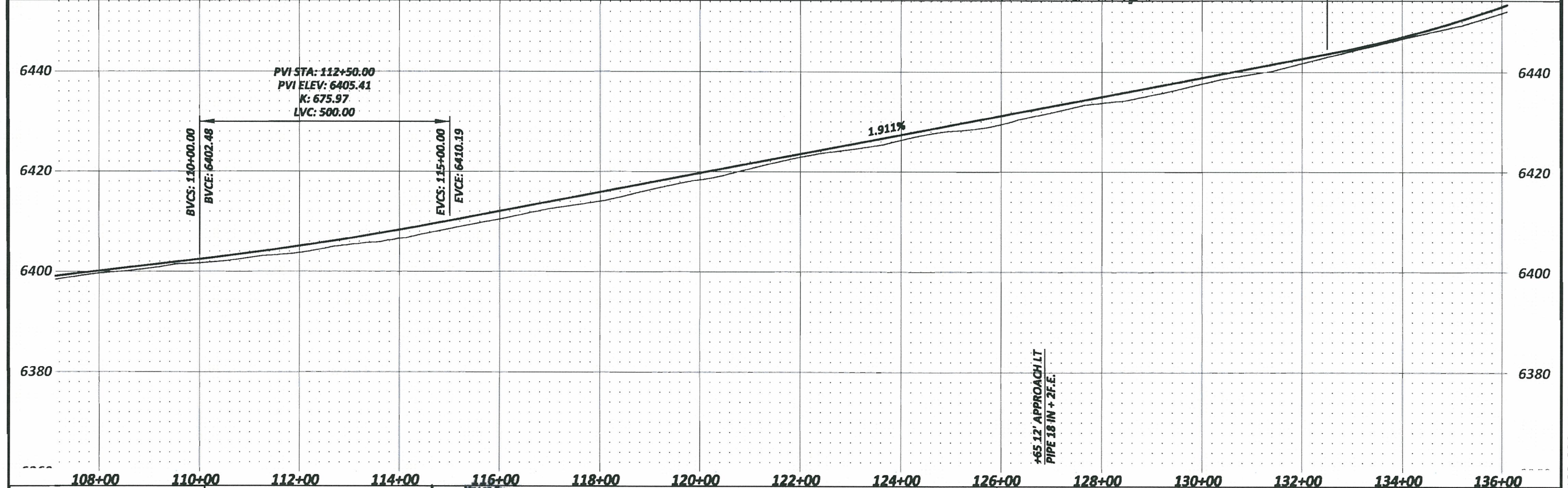
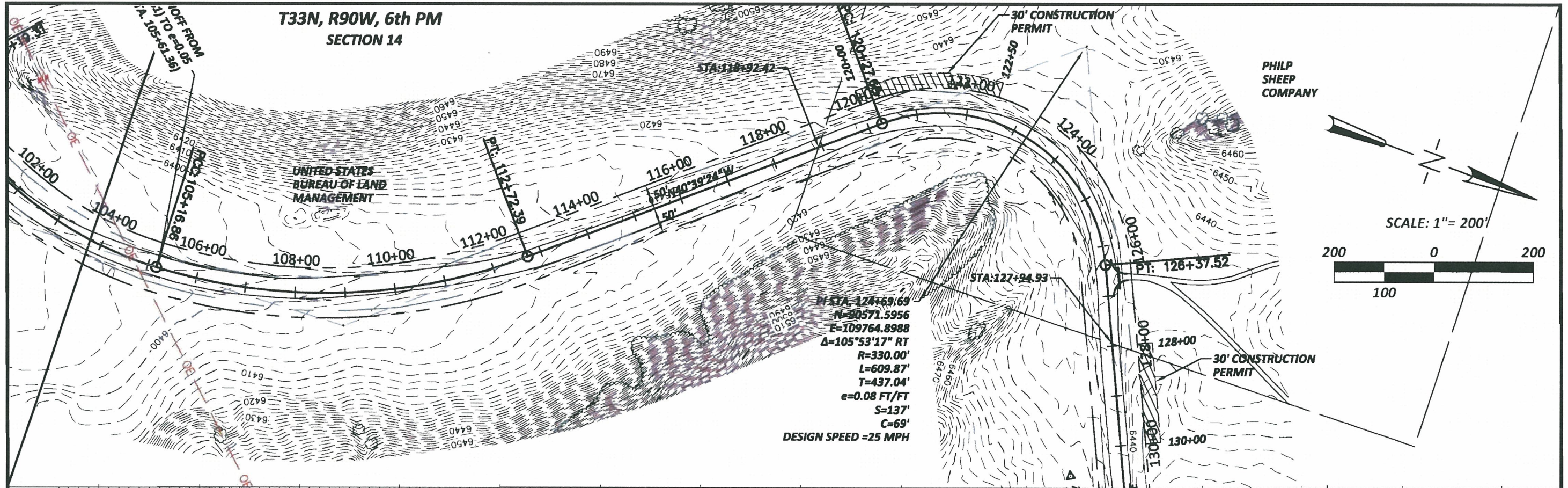


SCALE	HORIZ 1"=200'	VERT 1"=20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS.	<p>INBERG-MILLER ENGINEERS 124 East Main Street Riverton, WY 82501 307-856-8136</p> <p>1120 East C Street Casper, WY 82601 307-577-0806</p> <p>350 Parsley Boulevard Cheyenne, WY 82007 307-835-6827</p> <p>257 Alan Road Powell, WY 82435 307-754-7170</p> <p>193 Flaming Gorge Way Green River, WY 82935 307-875-4394</p>	<p>CAMECO RESOURCES</p>	<p>DRY CREEK ROAD PLAN &amp; PROFILE</p>	SHEET	6	OF	21
DRN.	BES	BK:	JOB NO.	15235-RE							
CHK.	MWB	PAGE:	DATE:	1-20-11				10/12/11 ADJUST CONSTRUCTION PERMIT			

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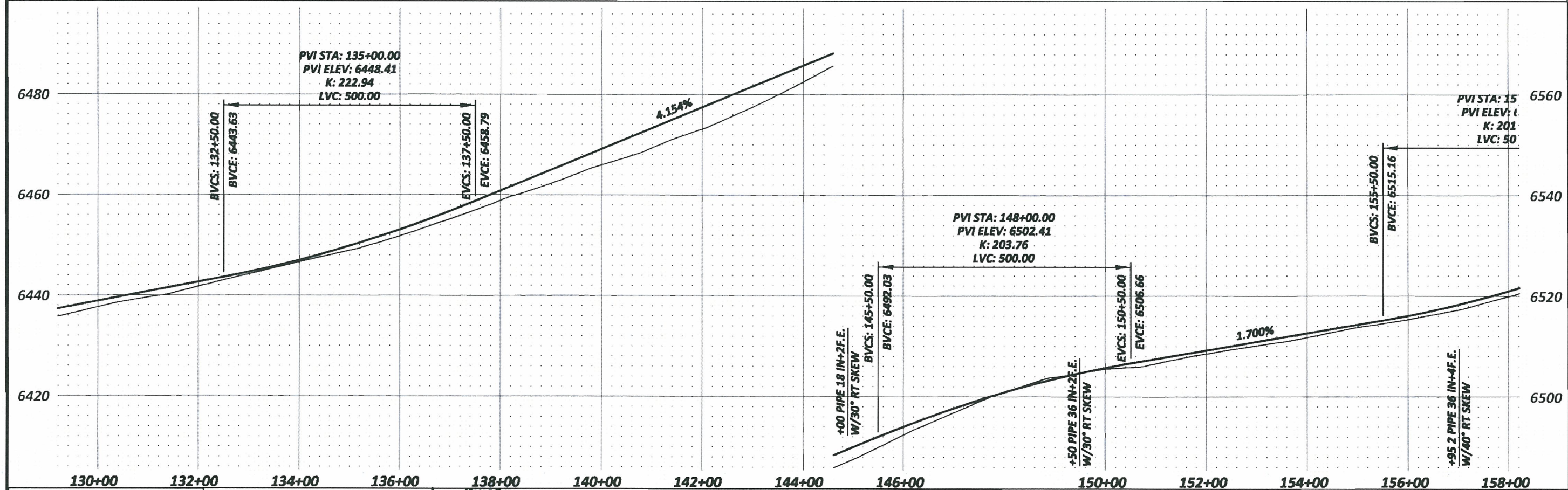
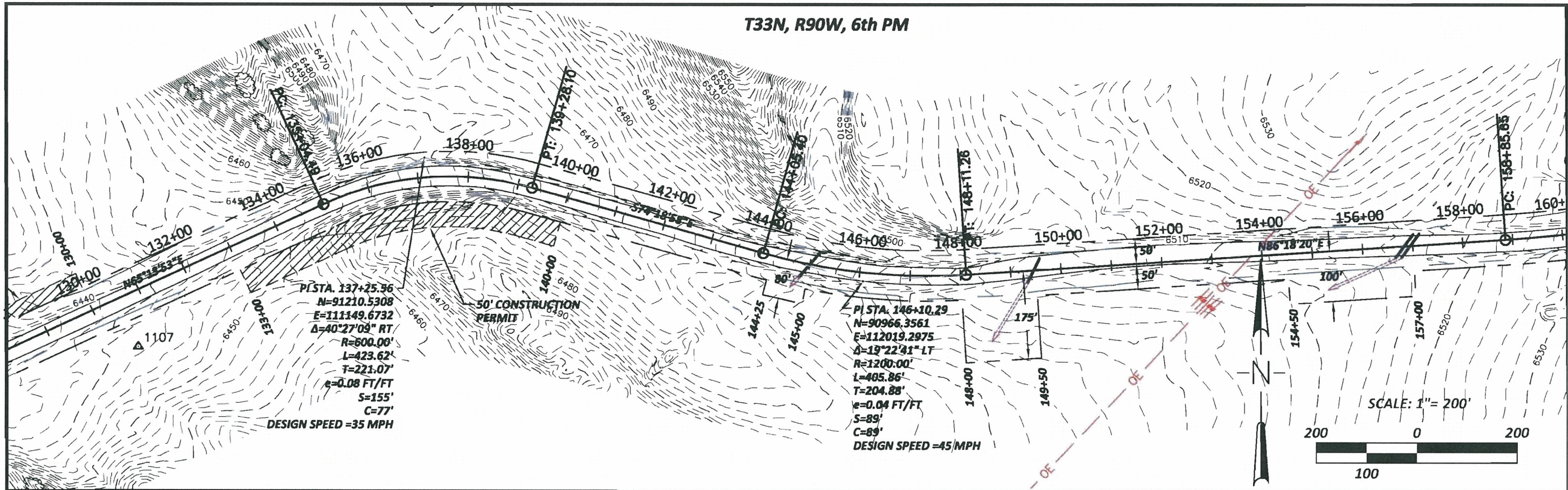
SCALE	HORZ 1" = 200'	VERT 1" = 20'	REVISIONS	INBERG-MILLER ENGINEERS					CAMECO RESOURCES		DRY CREEK ROAD PLAN & PROFILE		SHEET 7 OF 21
DRN.	BES	BK:	JOB NO. 15235-RE	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS.	124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394				
CHK.	MWB	PAGE:	DATE: 1-20-11										

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T33N, R90W, 6th PM



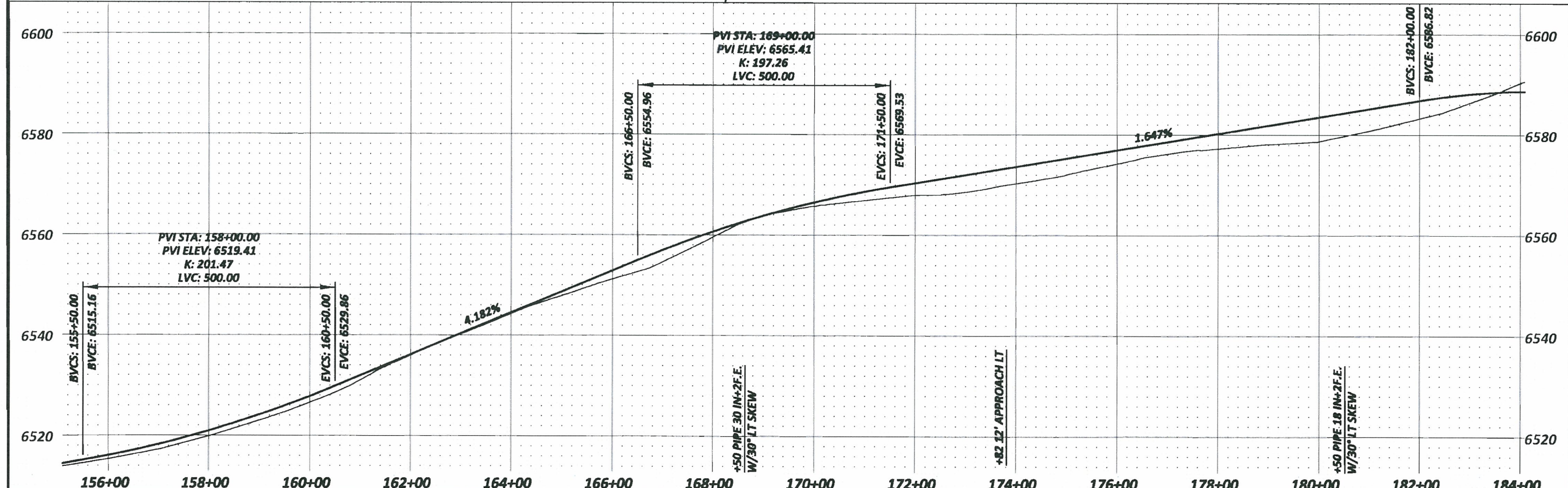
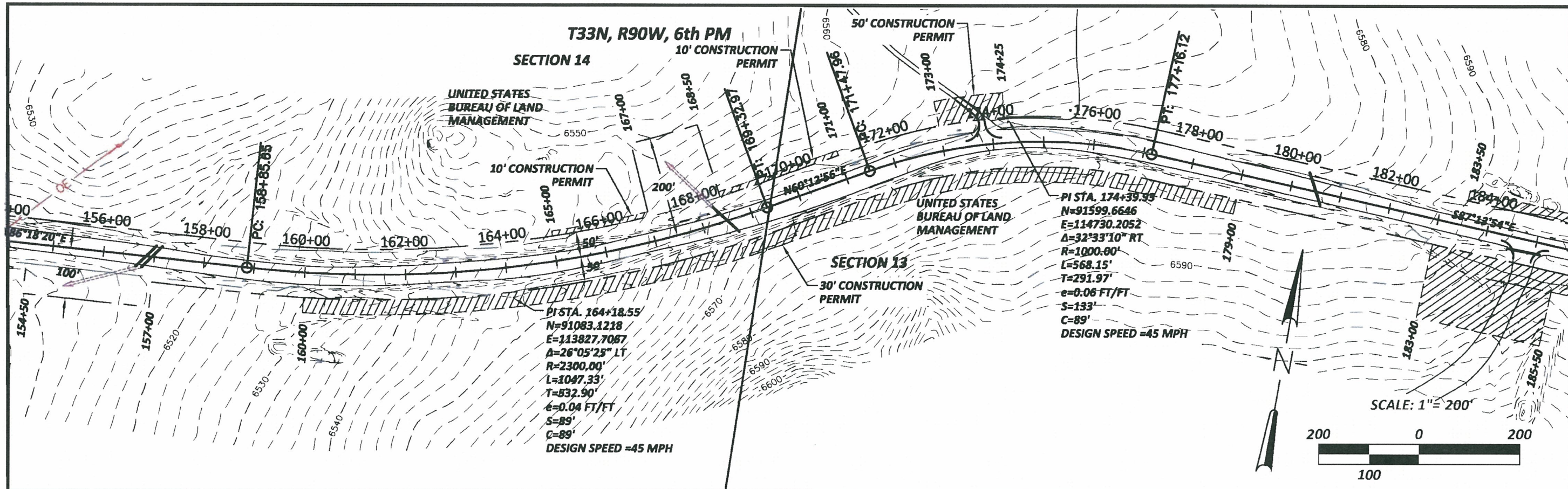
SCALE: HORZ 1"=200' VERT 1"=20'		REVISIONS: 5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS.				<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394		<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET 8 OF 21	
DRN. BES	BK:	JOB NO. 15235-RE	7/8/11 CONVERTED CONST PERMITS TO R-O-W			124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394		<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET 8 OF 21	
CHK. MWB	PAGE:	DATE: 1-20-11	10/12/11 ADJUST CONSTRUCTION PERMIT			124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394		<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET 8 OF 21	

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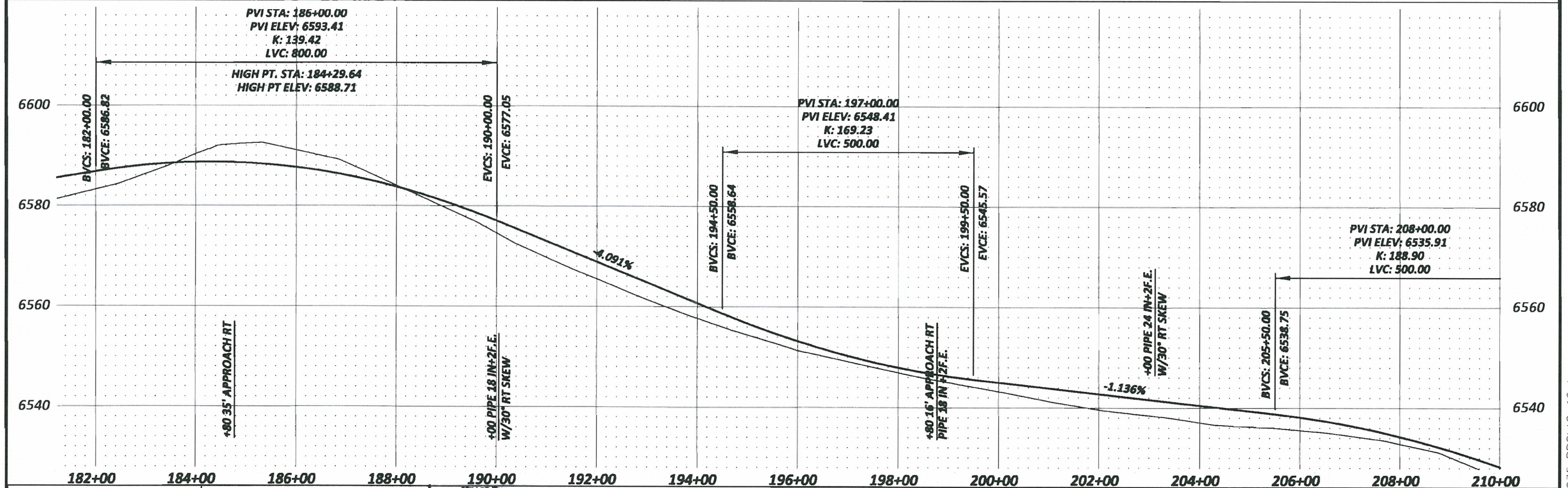
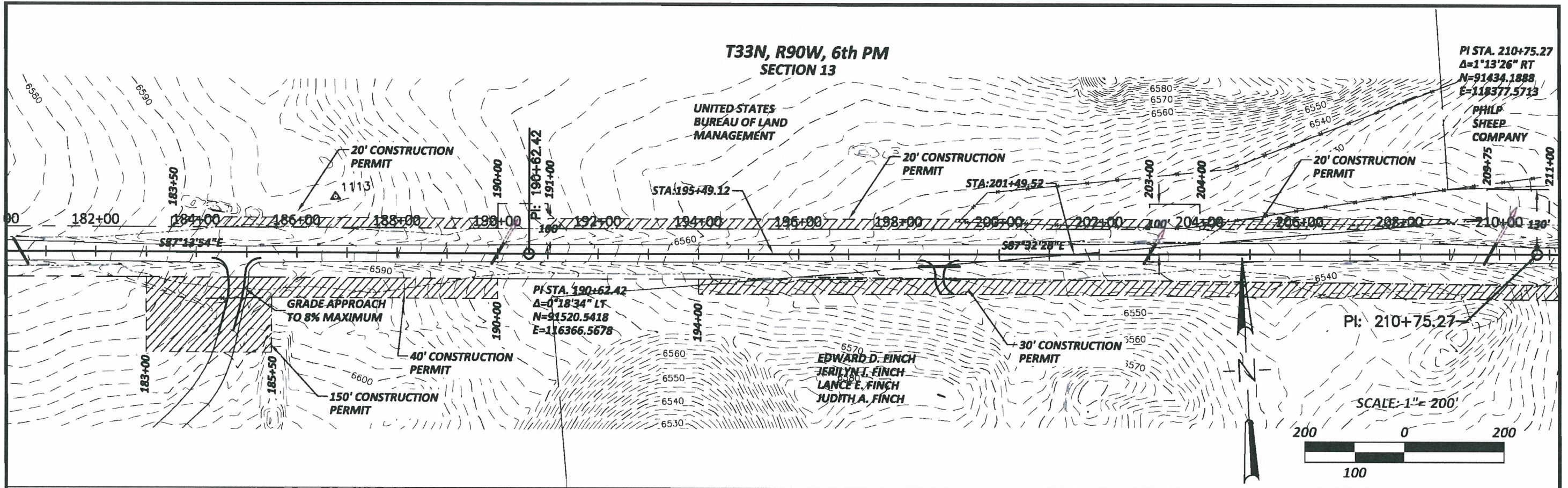


SCALE	HORZ 1" = 200'	VERT 1" = 20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS.	 <b>INBERG-MILLER ENGINEERS</b> 124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394	<b>CAMECO RESOURCES</b>	<b>DRY CREEK ROAD          PLAN &amp; PROFILE</b>	SHEET	9	OF	21
DRN:	BES	BK:	JOB NO.	15235-RE								DATE:	1-20-11	CHK:	MWB

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FILE:15235 PPSht1-7.dwg

T33N, R90W, 6th PM  
SECTION 13



SCALE HORZ 1"=200 VERT 1"=20'		REVISIONS 5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS.				<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394		<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET 10 OF 21	
DRN. BES	BK:	JOB NO.	15235-RE	7/8/11 CONVERTED CONST. PERMITS TO R-O-W 10/12/11 REVISE EARTHWORK LIMITS & CONST PERMITS, ADD APPROACH, ADJUST GRADES																	
CHK. MWB	PAGE:	DATE:	1-20-11																		

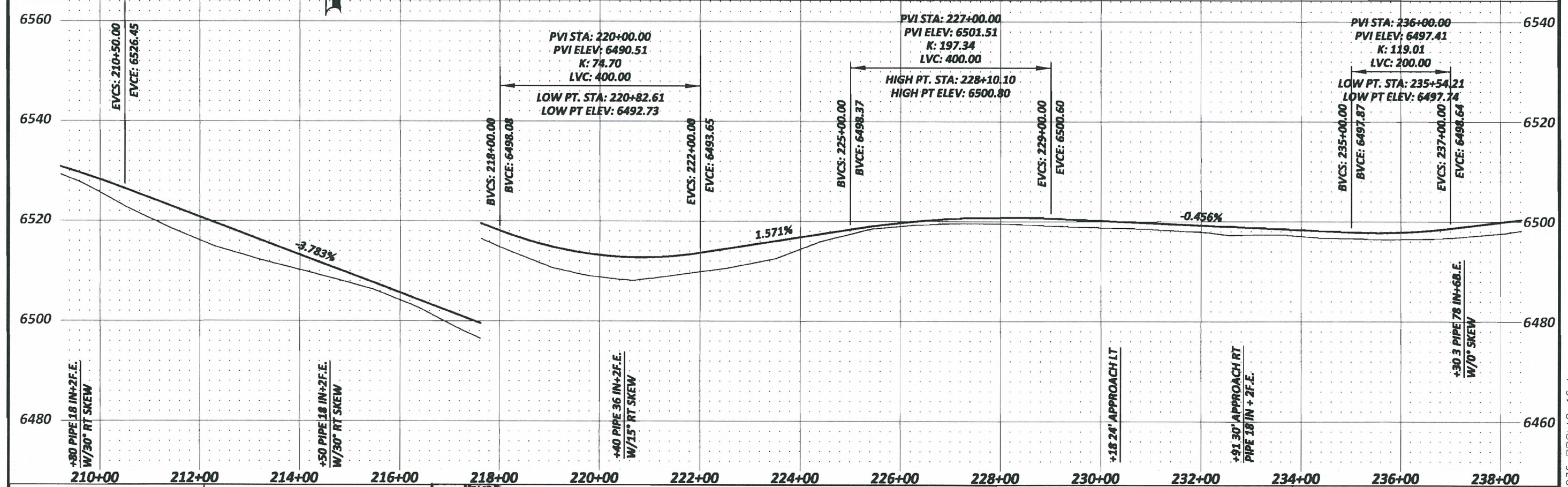
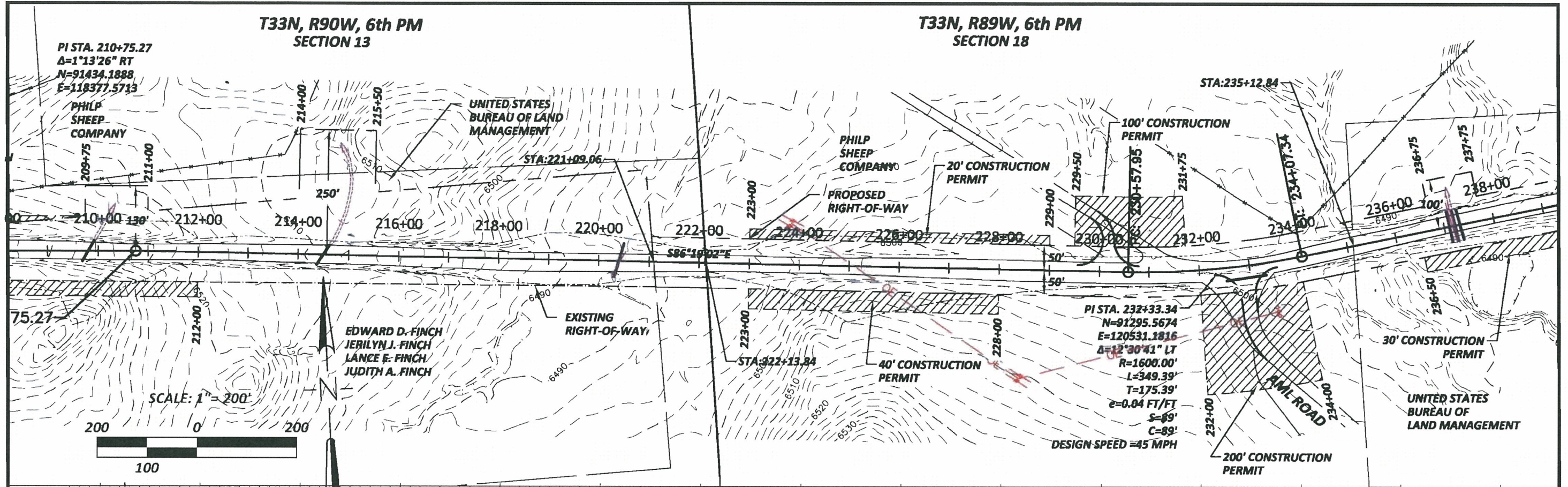
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T33N, R90W, 6th PM  
SECTION 13

T33N, R89W, 6th PM  
SECTION 18



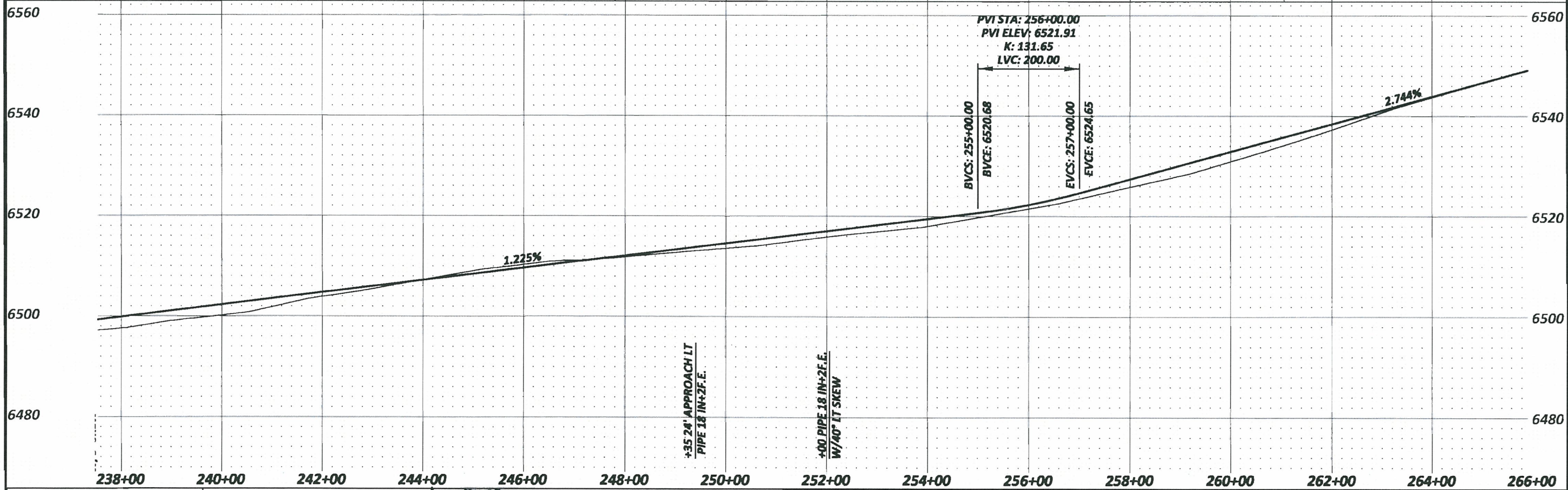
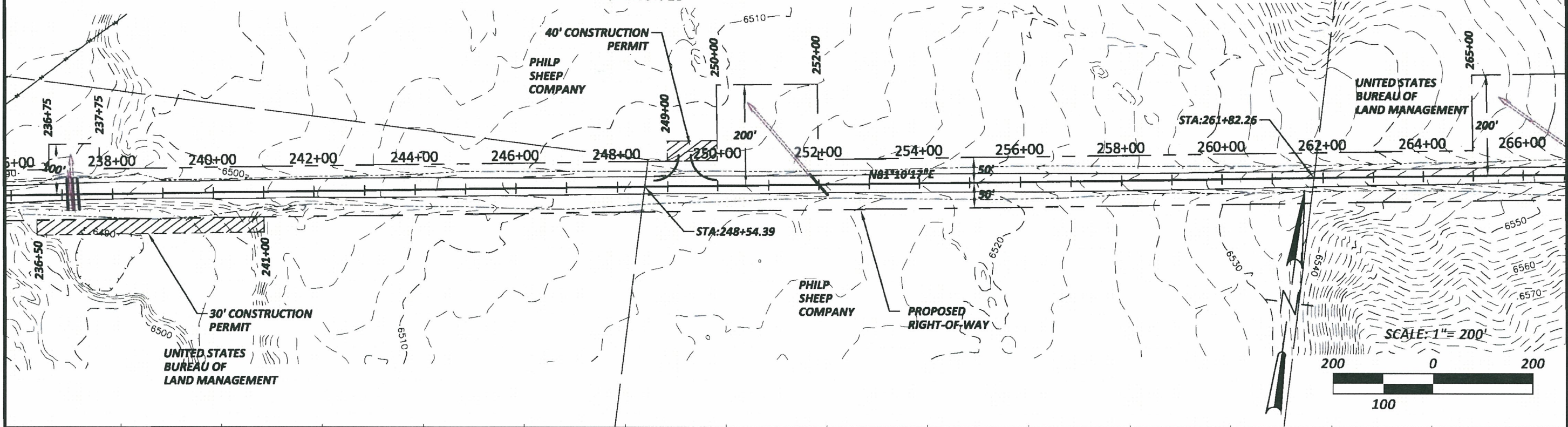
SCALE	HORZ 1"=200' VERT 1"=20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS, CHANGE APPROACH WIDTH 230+18					<b>INBERG-MILLER ENGINEERS</b>				<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET	11	OF	21
DRN.	BES	CHK.	MWB	124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394											
PAGE:	DATE: 1-20-11	10/12/11 REVISE EARTHWORK LIMITS & CONST PERMITS ADJUST GRADES																	

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T33N, R89W, 6th PM  
SECTION 18



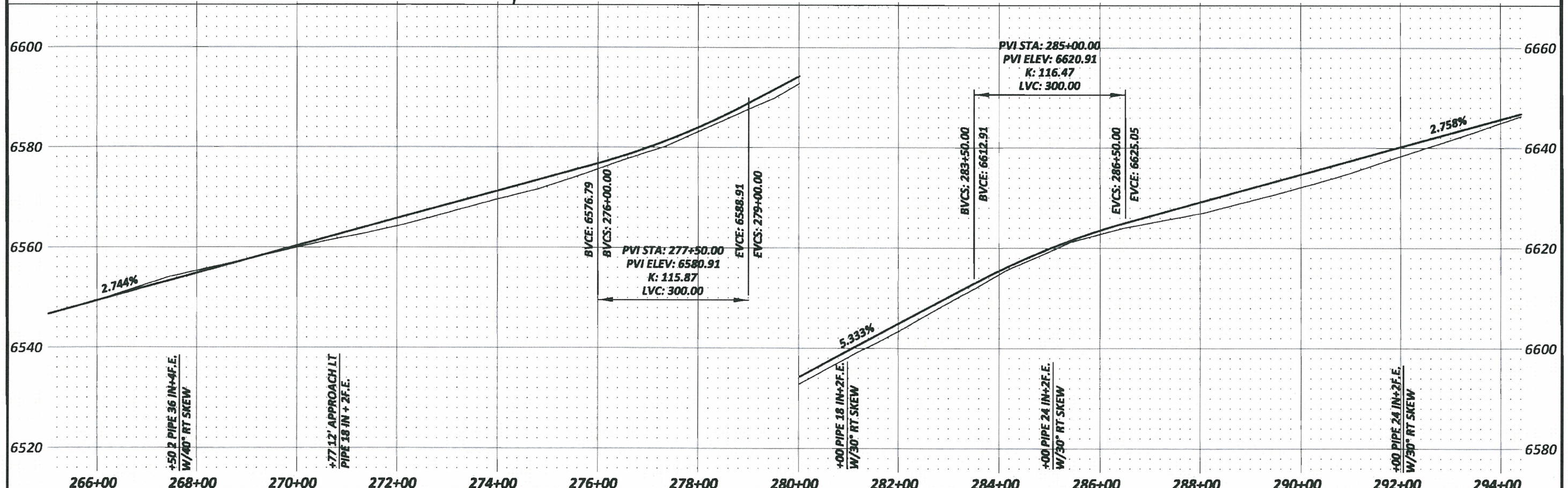
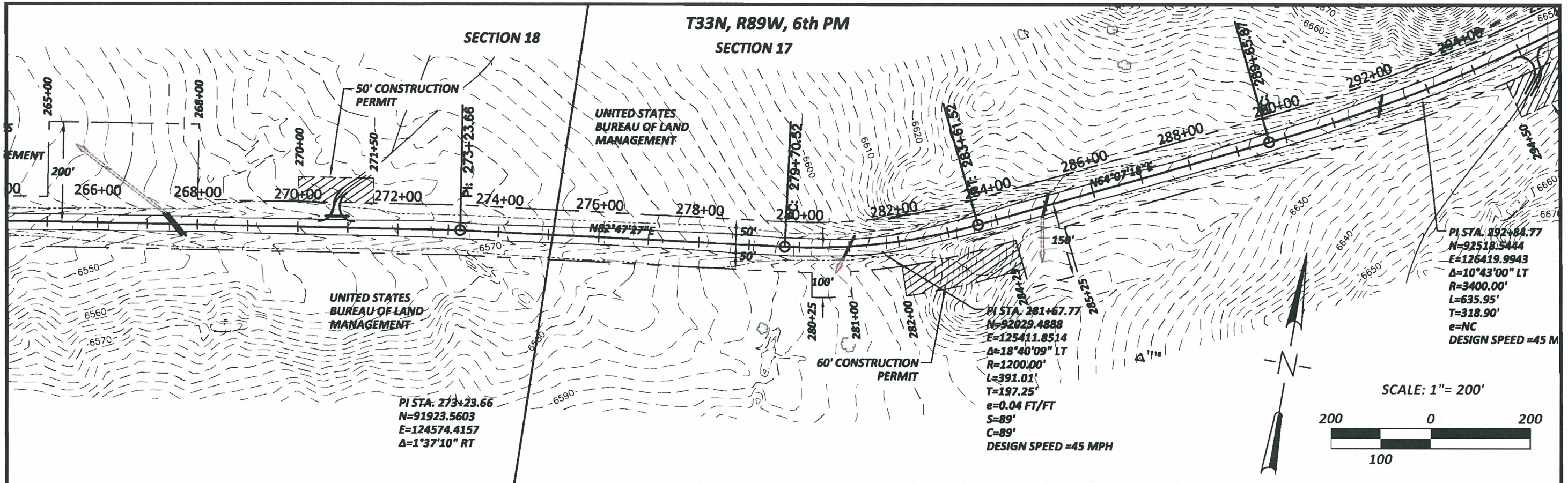
SCALE	HORZ 1" = 200' VERT 1" = 20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS; ADD APPROACH 249+35						<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street, Riverton, WY 82501, 307-856-8136 1120 East C Street, Casper, WY 82601, 307-577-0806 350 Parsley Boulevard, Cheyenne, WY 82007, 307-635-6827 257 Alan Road, Powell, WY 82435, 307-754-7170 193 Flaming Gorge Way, Green River, WY 82935, 307-875-4394					<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET <b>12</b> OF <b>21</b>
DRN. BES	BK:	JOB NO.	15235-RE															
CHK. MWB	PAGE:	DATE:	1-20-11															

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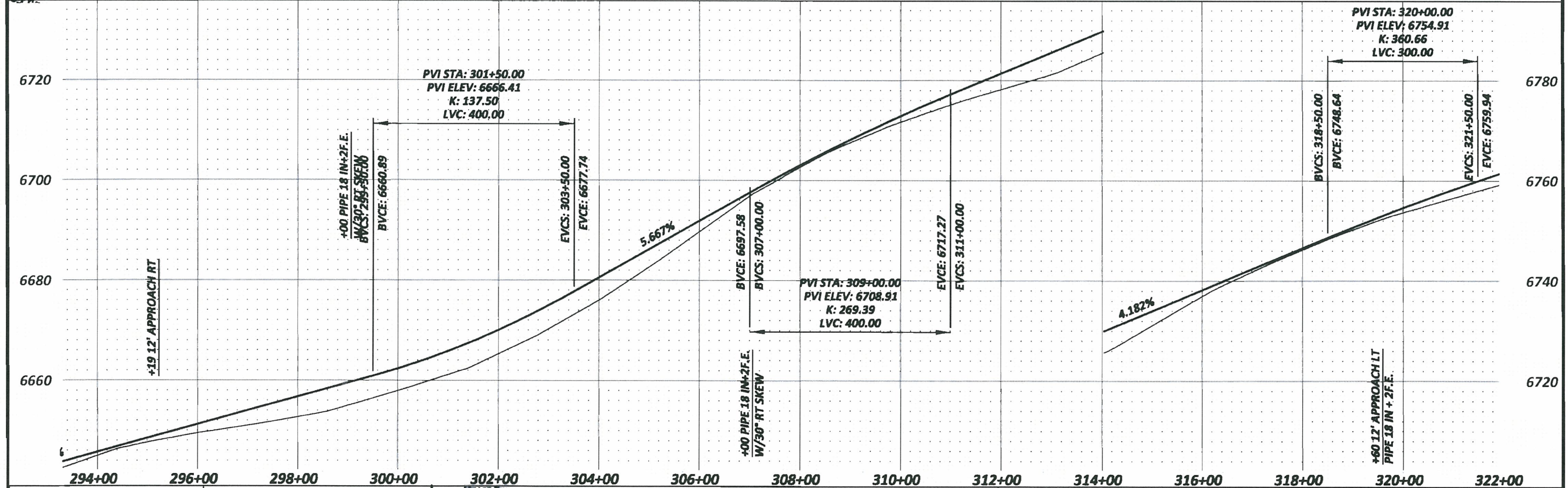
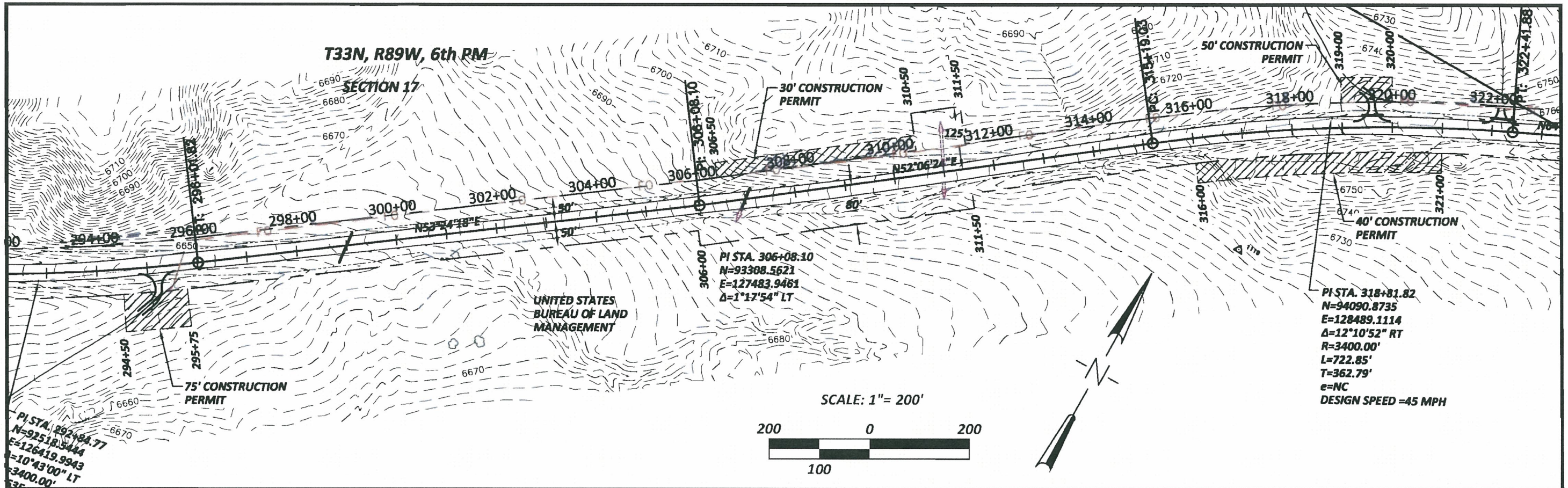


SCALE HORZ 1"=200 VERT 1"=20'		REVISIONS 5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS.				<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street    1120 East C Street    350 Parsley Boulevard    257 Alan Road    193 Flaming Gorge Way Riverton, WY 82501    Casper, WY 82601    Cheyenne, WY 82007    Powell, WY 82435    Green River, WY 82935 307-856-8136    307-577-0806    307-635-6827    307-754-7170    307-875-4394		<b>CAMECO RESOURCES</b>		<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>		SHEET <b>13</b> OF <b>21</b>	
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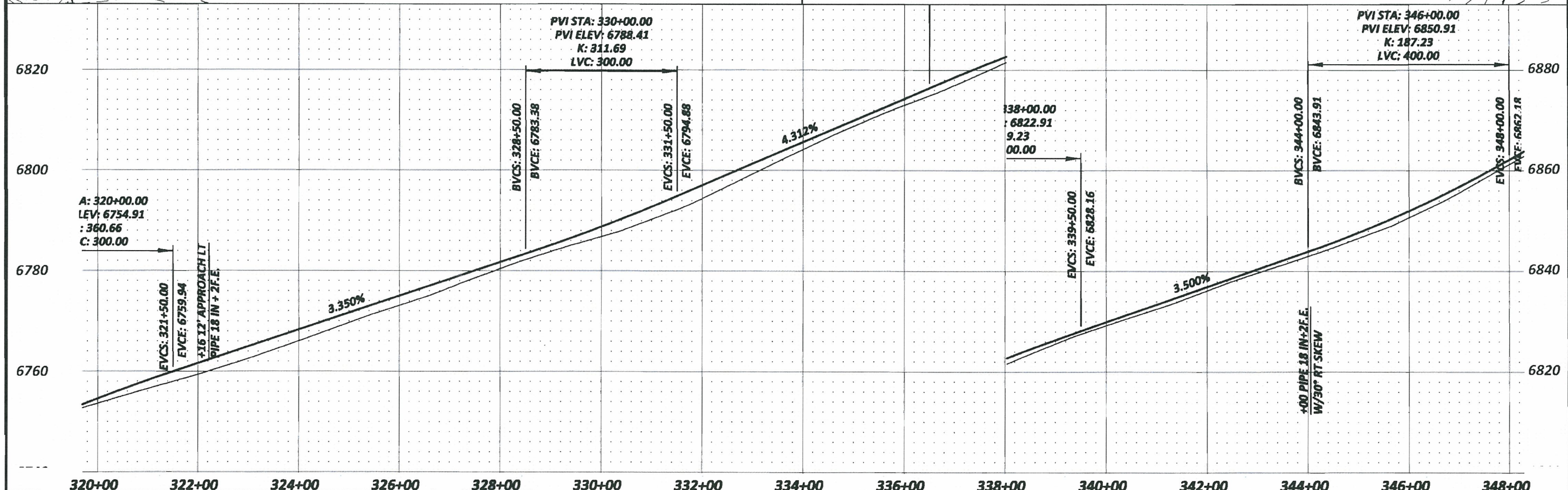
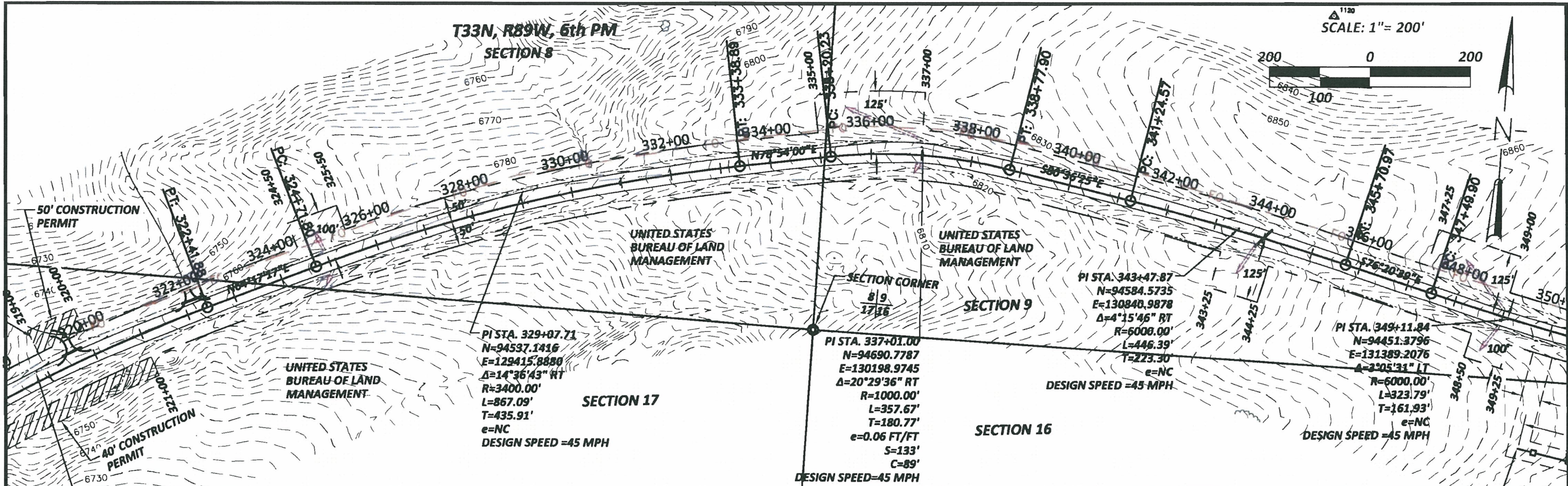
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SCALE	HORZ 1"=200' VERT 1"=20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS.	<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street, Riverton, WY 82501   307-856-8136 1120 East C Street, Casper, WY 82601   307-577-0806 350 Parsley Boulevard, Cheyenne, WY 82007   307-635-6827 257 Alan Road, Powell, WY 82435   307-754-7170 193 Flaming Gorge Way, Green River, WY 82935   307-875-4394				<b>CAMECO RESOURCES</b> <b>DRY CREEK ROAD</b> <b>PLAN &amp; PROFILE</b>		SHEET <b>14</b> OF <b>21</b>
DRN. BES	BK:	JOB NO.	15235-RE							
CHK. MWB	PAGE:	DATE:	1-20-11							

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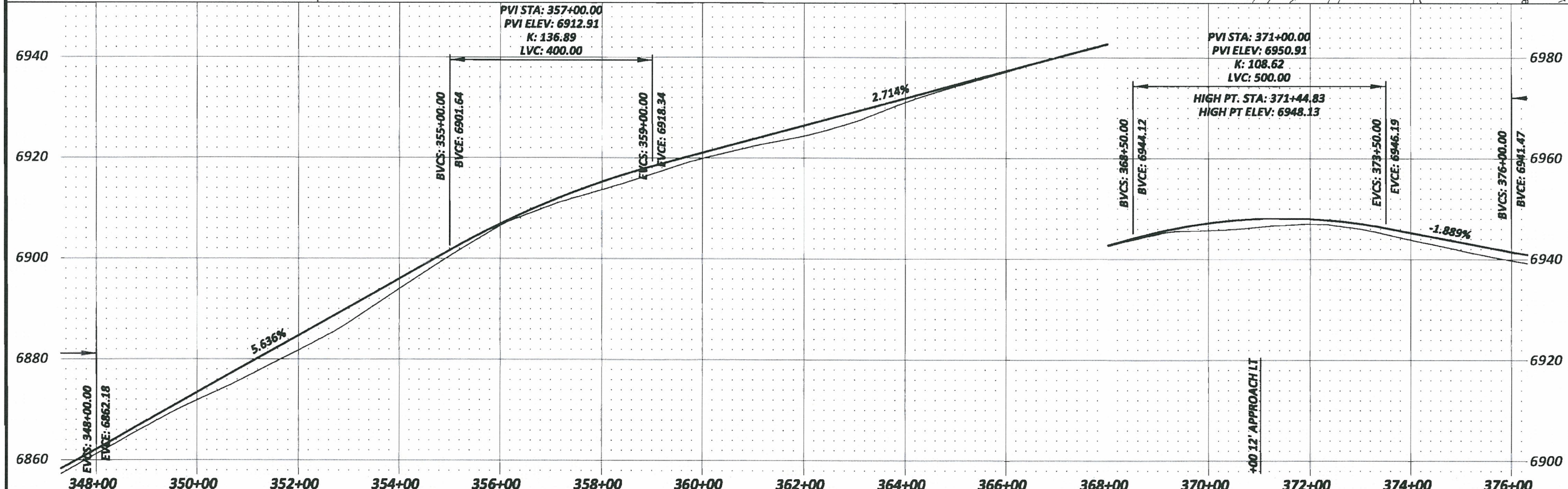
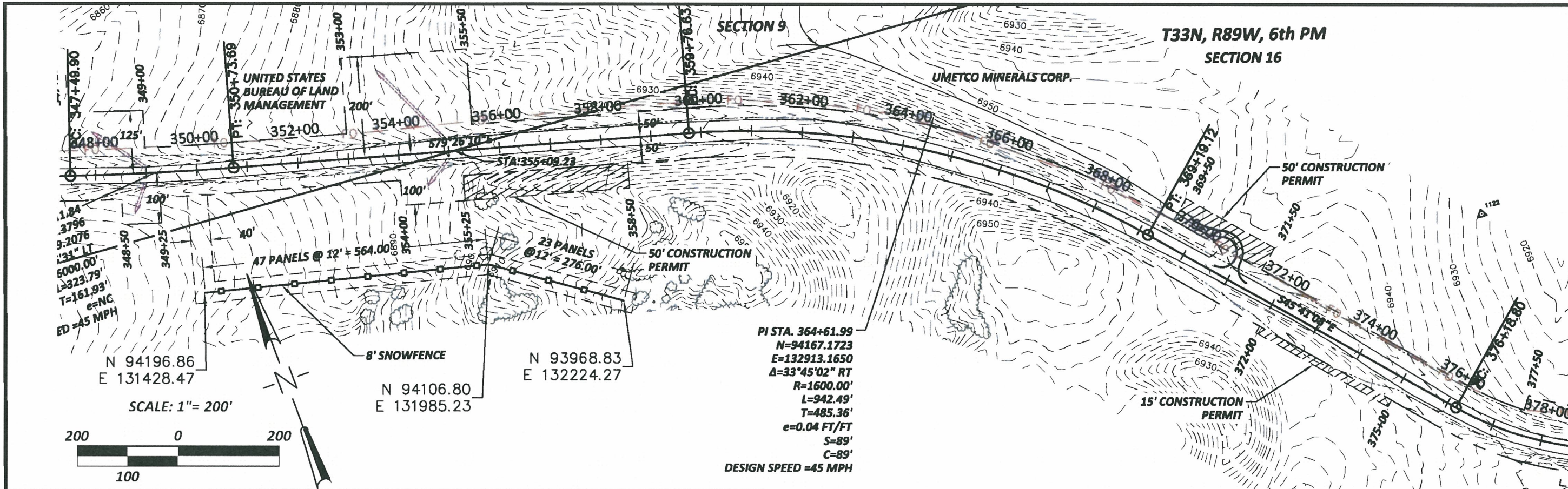


SCALE HORZ 1" = 200' VERT 1" = 20'		REVISIONS 5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS.		INBERG-MILLER ENGINEERS						CAMECO RESOURCES		DRY CREEK ROAD PLAN & PROFILE		SHEET 15 OF 21	
DRN. BES	BK:	JOB NO.	15235-RE	124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394			
CHK. MWB	PAGE:	DATE:	1-20-11	10/12/11 REVISE EARTHWORK LIMITS & CONST. PERMITS		IME									

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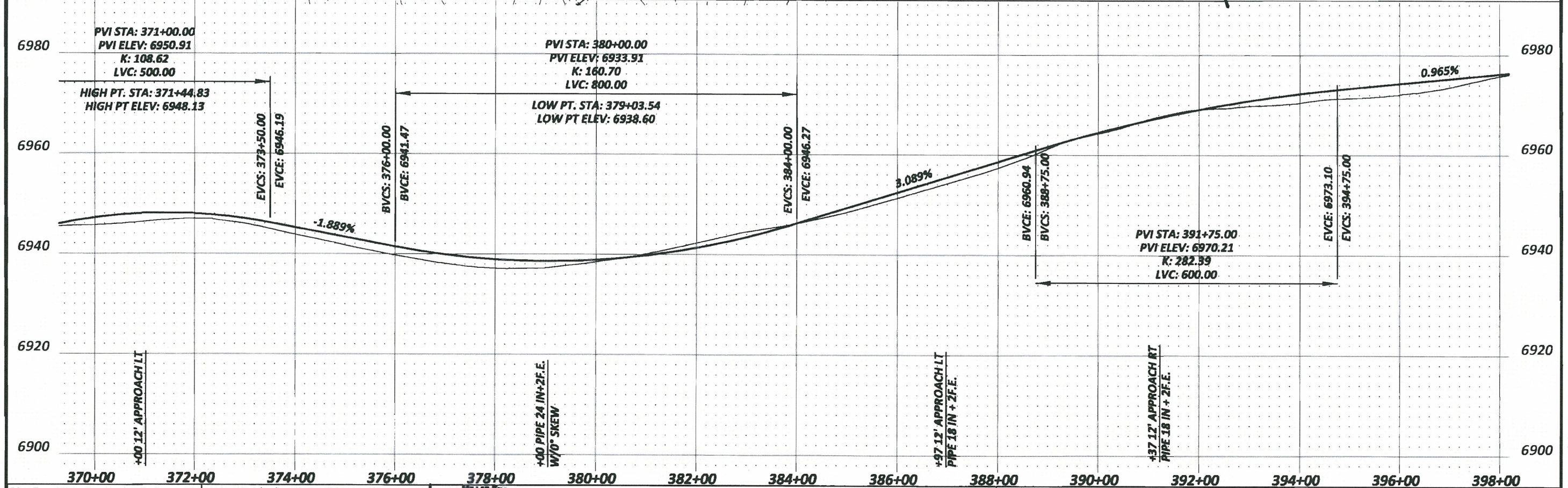
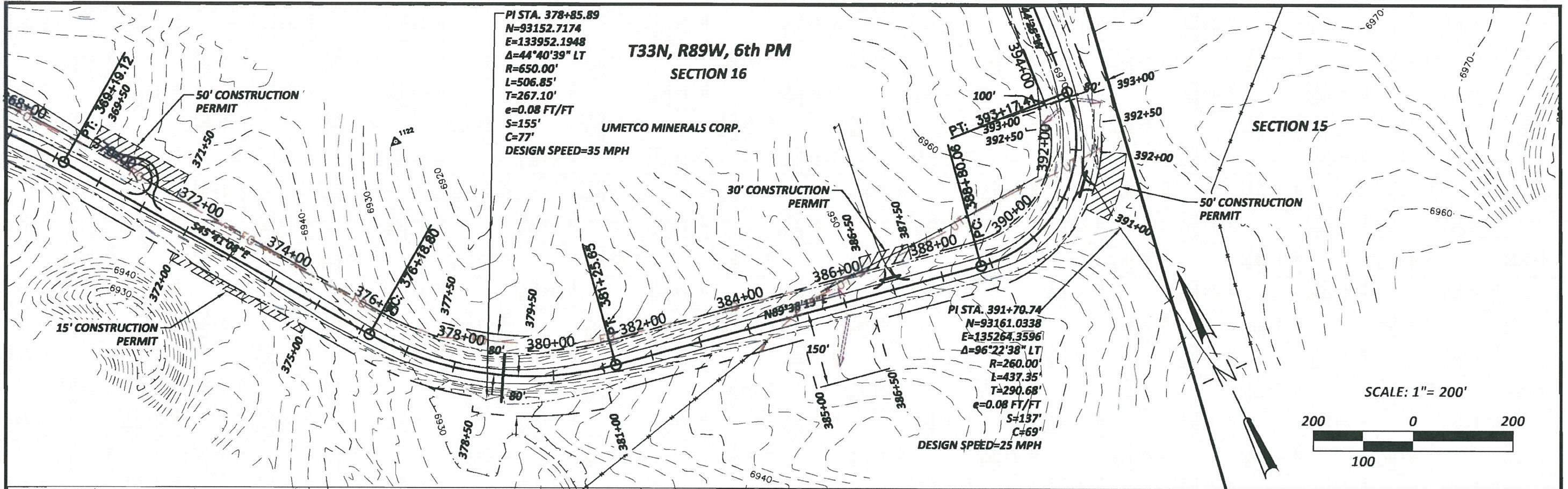
SCALE HORZ 1"=200 VERT 1"=20'		REVISIONS 5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS		INBERG-MILLER ENGINEERS		CAMECO RESOURCES		DRY CREEK ROAD PLAN & PROFILE		SHEET 16 OF 21		
DRN. BES	BK:	JOB NO. 15235-RE	124 East Main Street Riverton, WY 82501 307-856-8136		1120 East C Street Casper, WY 82601 307-577-0806		350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827		257 Alan Road Powell, WY 82435 307-754-7170		193 Flaming Gorge Way Green River, WY 82935 307-875-4394	
CHK. MWB	PAGE:	DATE: 1-20-11	10/12/11 REVISE EARTHWORK LIMITS & CONST PERMITS, ADJUST GRADES AND SNOW FENCE		IMB Quality Assurance Supervisor							

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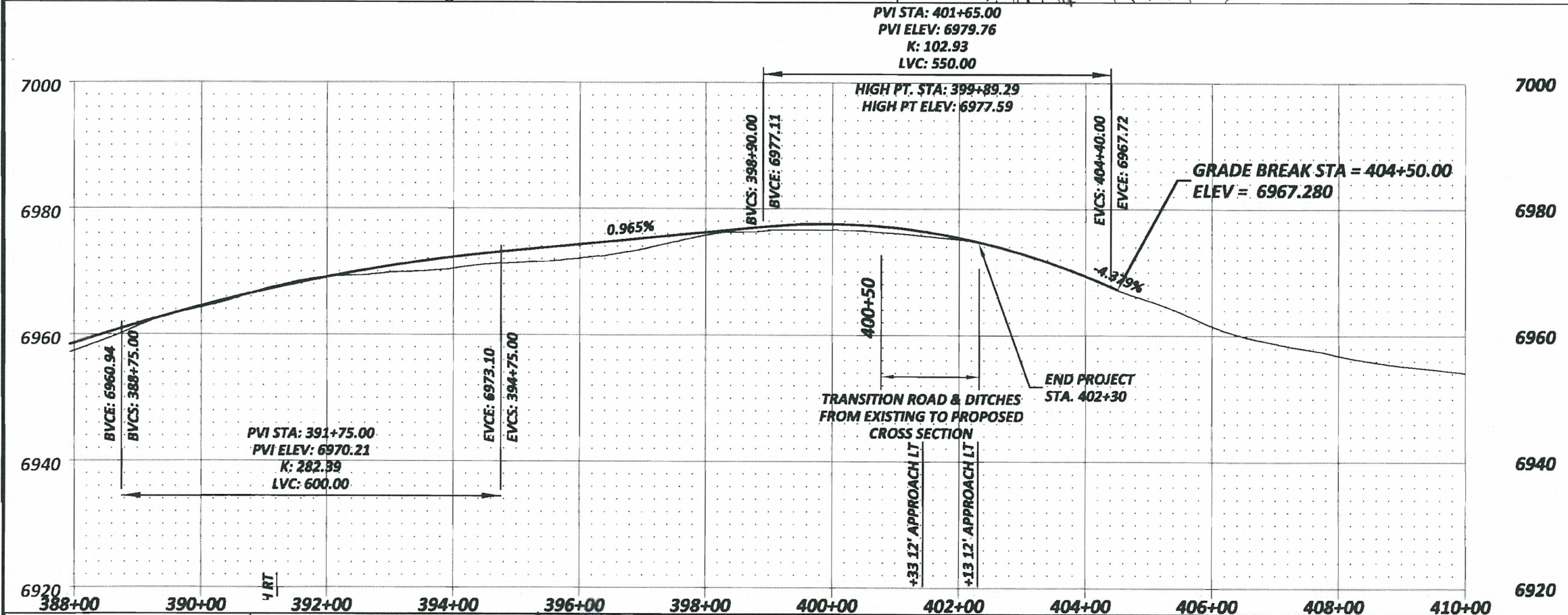
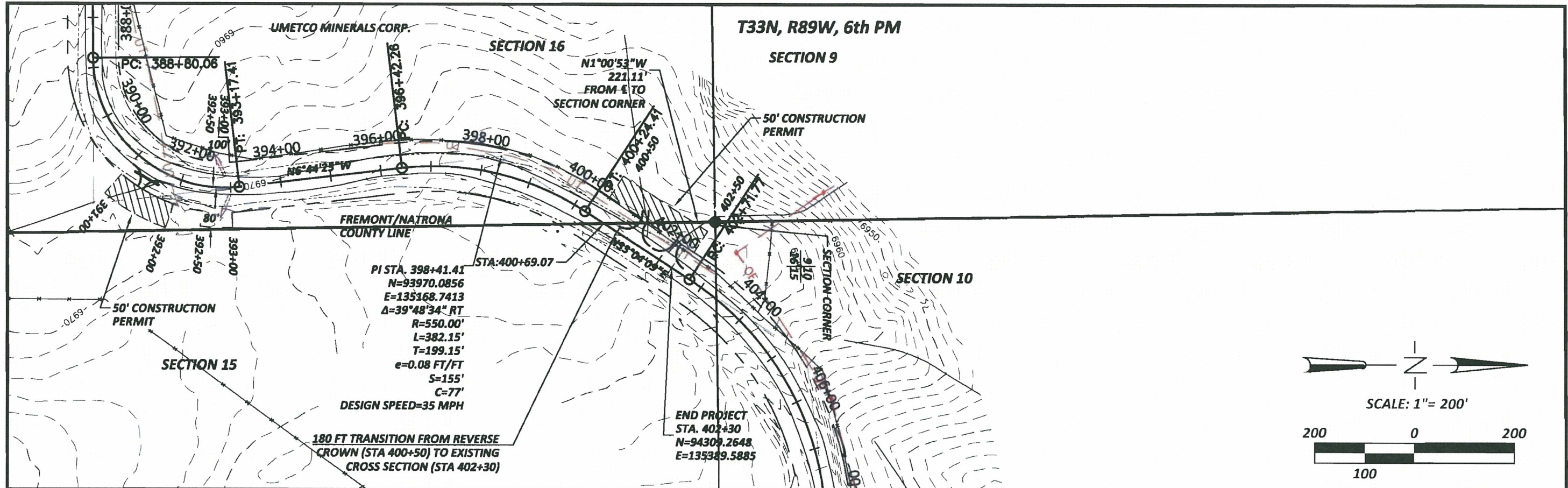
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SCALE	HORZ 1" = 200' VERT 1" = 20'	REVISIONS	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY & CONSTRUCTION PERMITS.	<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street Riverton, WY 82501 307-856-8136				<b>INBERG-MILLER ENGINEERS</b> 1120 East C Street Casper, WY 82601 307-577-0806				<b>INBERG-MILLER ENGINEERS</b> 350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827				<b>INBERG-MILLER ENGINEERS</b> 257 Alan Road Powell, WY 82435 307-754-7170				<b>INBERG-MILLER ENGINEERS</b> 193 Flaming Gorge Way Green River, WY 82935 307-875-4394				<b>CAMECO RESOURCES</b>				<b>DRY CREEK ROAD          PLAN &amp; PROFILE</b>				SHEET <b>17</b> OF <b>21</b>	
DRN.	BES	BK:	JOB NO.	15235-RE 7/8/11 CONVERTED CONST. PERMITS TO R-O-W 10/12/11 REVISE EARTHWORK LIMITS & CONST PERMITS																													
CHK.	MWB	PAGE:	DATE:	1-20-11																													

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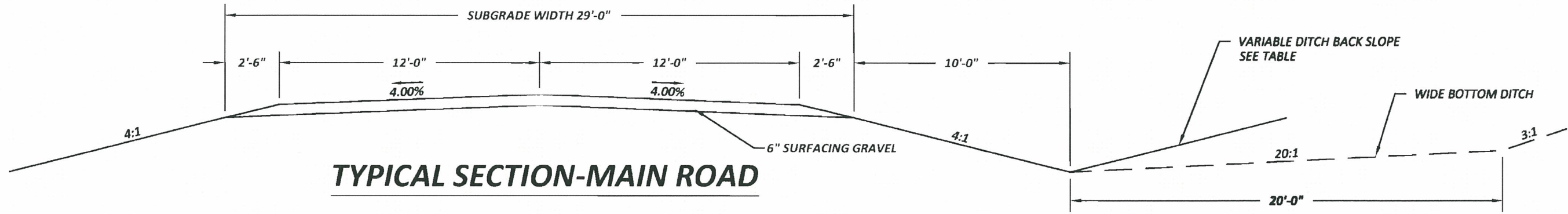


SCALE: HORZ 1" = 200' VERT 1" = 20'	REVISIONS	<b>INBERG-MILLER ENGINEERS</b> 124 East Main Street, Riverton, WY 82501, 307-856-8136 1120 East C Street, Casper, WY 82601, 307-577-0806 350 Parsley Boulevard, Cheyenne, WY 82007, 307-635-6827 257 Alan Road, Powell, WY 82435, 307-754-7170 193 Flaming Gorge Way, Green River, WY 82935, 307-875-4394					<b>CAMECO RESOURCES</b>	<b>DRY CREEK ROAD PLAN &amp; PROFILE</b>	SHEET <b>18</b> OF <b>21</b>
DRN. BES BK: JOB NO. 15235-RE	5/24/11 ADD OWNERSHIP, RIGHT-OF-WAY AND CONSTRUCTION PERMITS								
CHK. MWB PAGE: DATE: 1-20-11	10/12/11 REVISE EARTHWORK LIMITS & CONST. PERMITS								

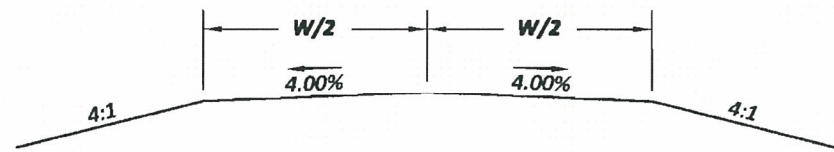
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**TYPICAL SECTION-MAIN ROAD**



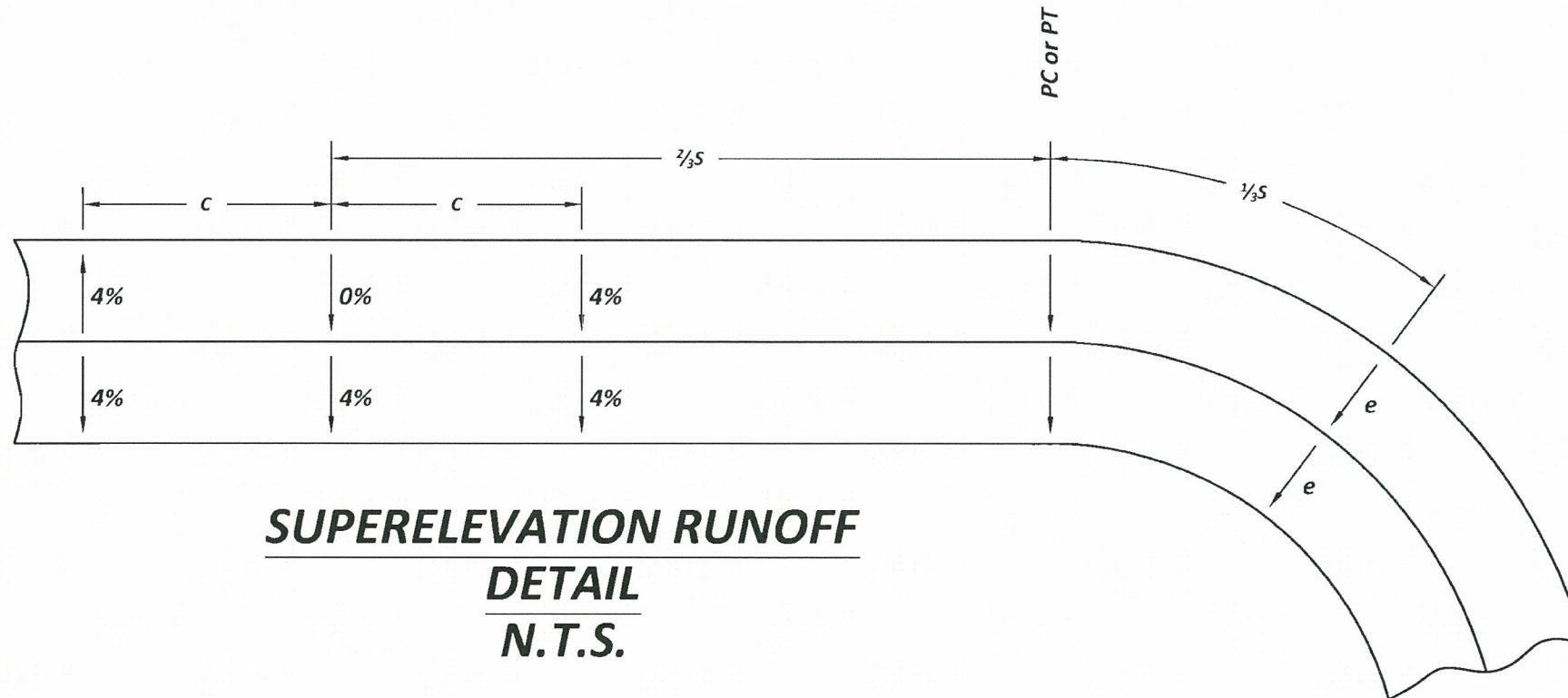
**TYPICAL SECTION-APPROACH ROAD\***

\* 50 FOOT RADIUS ON APPROACH ROADS AT STA. 230+18, 232+91 AND 249+35, 30 FOOT RADIUS ON ALL OTHERS.

**DITCH BACK SLOPES**

STATION	LEFT	RIGHT
0+70 - 144+50	3:1	3:1
144+50 - 146+50	3:1	40'
146+50 - 152+50	3:1	5:1
152+50 - 159+50	3:1	40'
159+50 - 165+50	3:1	5:1
165+50 - 169+50	50'	5:1
169+50 - 170+50	50'	60'
170+50 - 172+50	3:1	60'
172+50 - 183+50	3:1	5:1
183+50 - 189+50	3:1	WBD*
189+50 - 200+50	50'	5:1
200+50 - 204+50	3:1	5:1
204+50 - 206+50	60'	5:1
206+50 - 209+50	60'	70'
209+50 - 210+50	60'	4:1
210+50 - 211+50	60'	5:1
211+50 - 223+50	3:1	5:1
223+50 - 224+50	60'	5:1
224+50 - 225+50	60'	75'
225+50 - 228+50	60'	5:1
228+50 - 234+50	3:1	5:1
234+50 - 238+50	20:1 DOWN	5:1
238+50 - 268+50	3:1	5:1
268+50 - 271+50	5:1	5:1
271+50 - 355+50	3:1	5:1
355+50 - 358+50	3:1	3:1
358+50 - 369+50	3:1	5:1
369+50 - 375+50	5:1	5:1
375+50 - 384+50	20:1 DOWN	5:1
384+50 - 402+30	5:1	5:1

\*Wide Bottom Ditch



**SUPERELEVATION RUNOFF DETAIL N.T.S.**

SCALE	HORZ 1" = 5'	VERT	
DRN. BES	BK:	JOB NO.	15235-RE
CHK. TEA	PAGE:	DATE:	1-20-11

REVISIONS	
5/24/11	ADD 50 FOOT RADIUS APPROACH 249+35
10/12/11	ADD DITCH BACKSLOPE TABLE



INBERG-MILLER ENGINEERS					
124 East Main Street Riverton, WY 82501 307-856-8136	1120 East C Street Casper, WY 82601 307-577-0806	350 Parsley Boulevard Cheyenne, WY 82007 307-635-6827	257 Alan Road Powell, WY 82435 307-754-7170	193 Flaming Gorge Way Green River, WY 82935 307-875-4394	

**CAMECO RESOURCES**

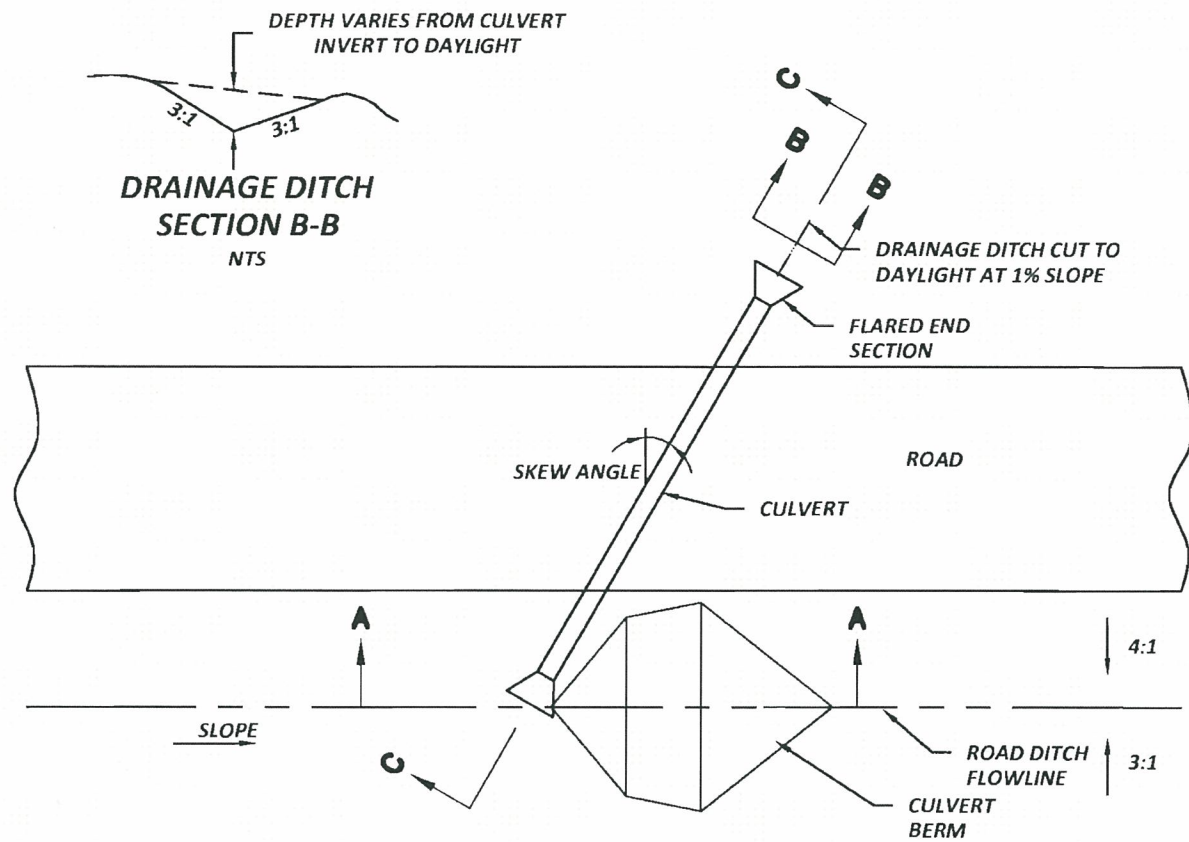
**DRY CREEK ROAD DETAILS**

SHEET 19 OF 21

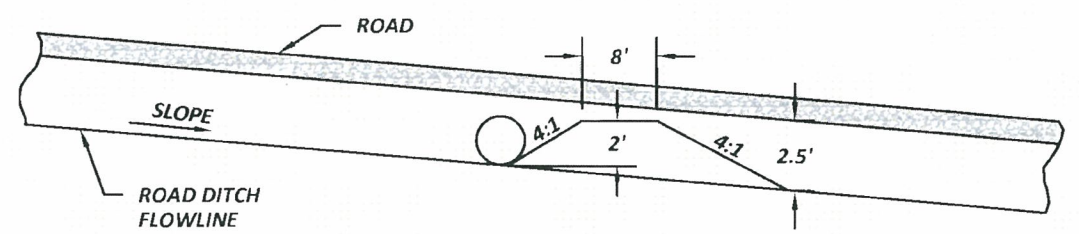
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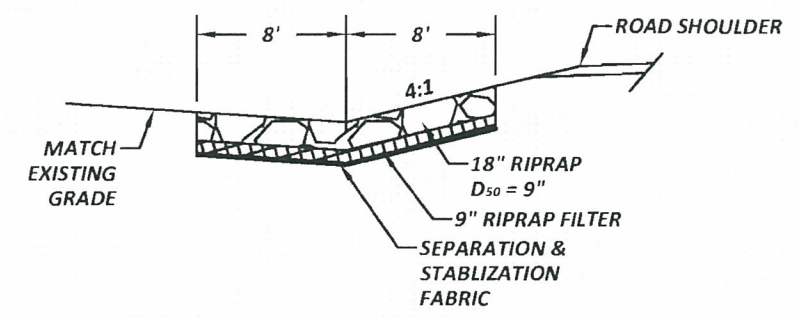
**DRAINAGE DETAILS**  
**PLAN VIEW**  
NTS



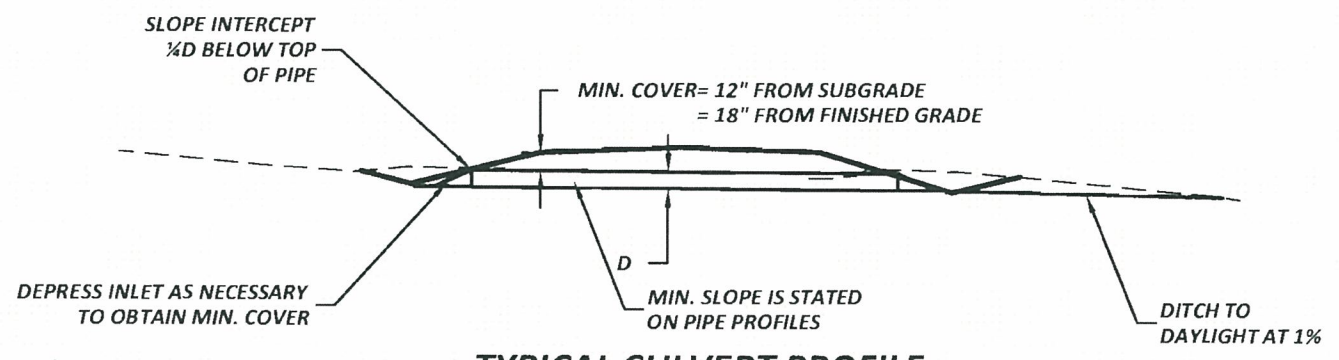
**CULVERT BERM**  
**SECTION A-A**  
NTS

CULVERT BERMS ARE TO BE CONSTRUCTED FOR THE CULVERTS AT THE FOLLOWING STATIONS:

38+00	168+50	267+50
42+00	180+50	281+00
53+00	190+00	285+00
81+75	203+00	292+00
145+00	209+80	299+00
149+50	214+50	307+00
156+95	252+00	344+00



**RIPRAP DITCH SECTION**  
**STA. 47+00 TO STA. 50+00 LEFT**  
NTS



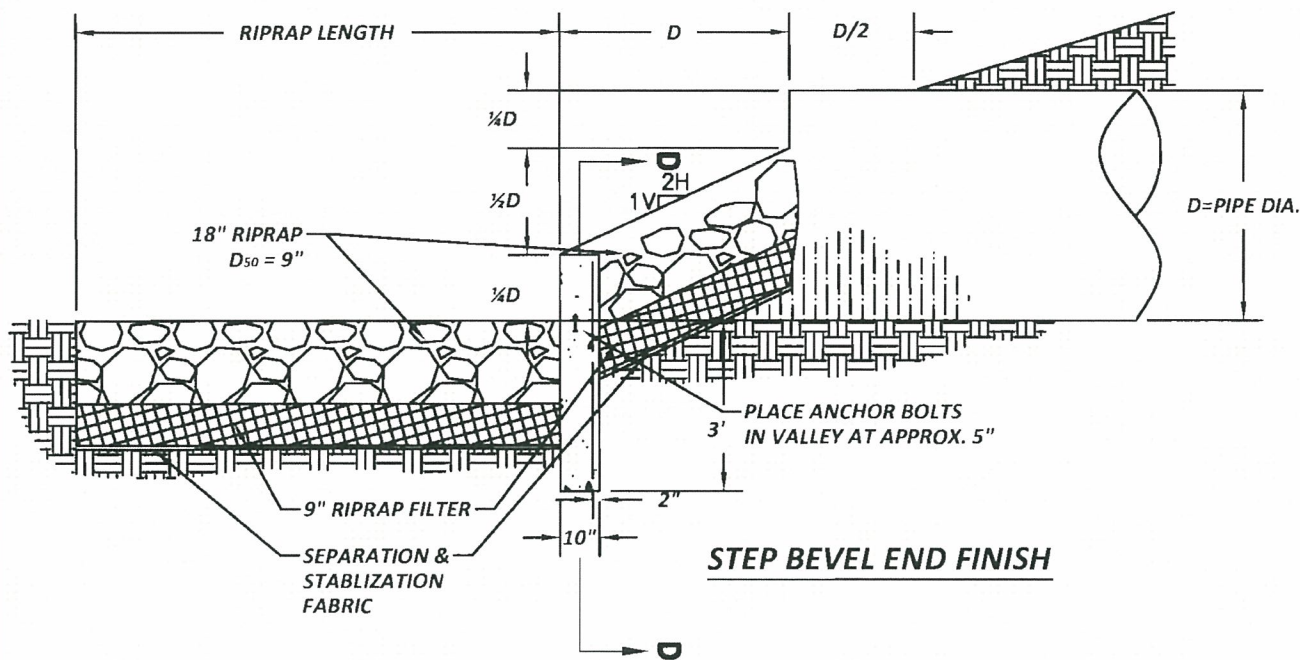
**TYPICAL CULVERT PROFILE**  
**SECTION C-C**  
NTS

IN ADDITION TO THE DRAINAGE DITCHES AT CULVERT LOCATIONS, DRAINAGE DITCHES ARE TO BE CONSTRUCTED FOR DRAINAGE RELIEF ON BOTH SIDES OF THE ROAD AT THE FOLLOWING STATIONS: 311+00, 325+00, 337+00, 349+00, 355+00, 386+00, AND 393+00.

NOTE: CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL EXISTING CULVERTS WITHIN THE CONSTRUCTION LIMITS.

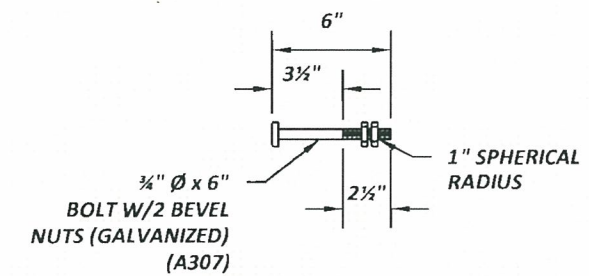
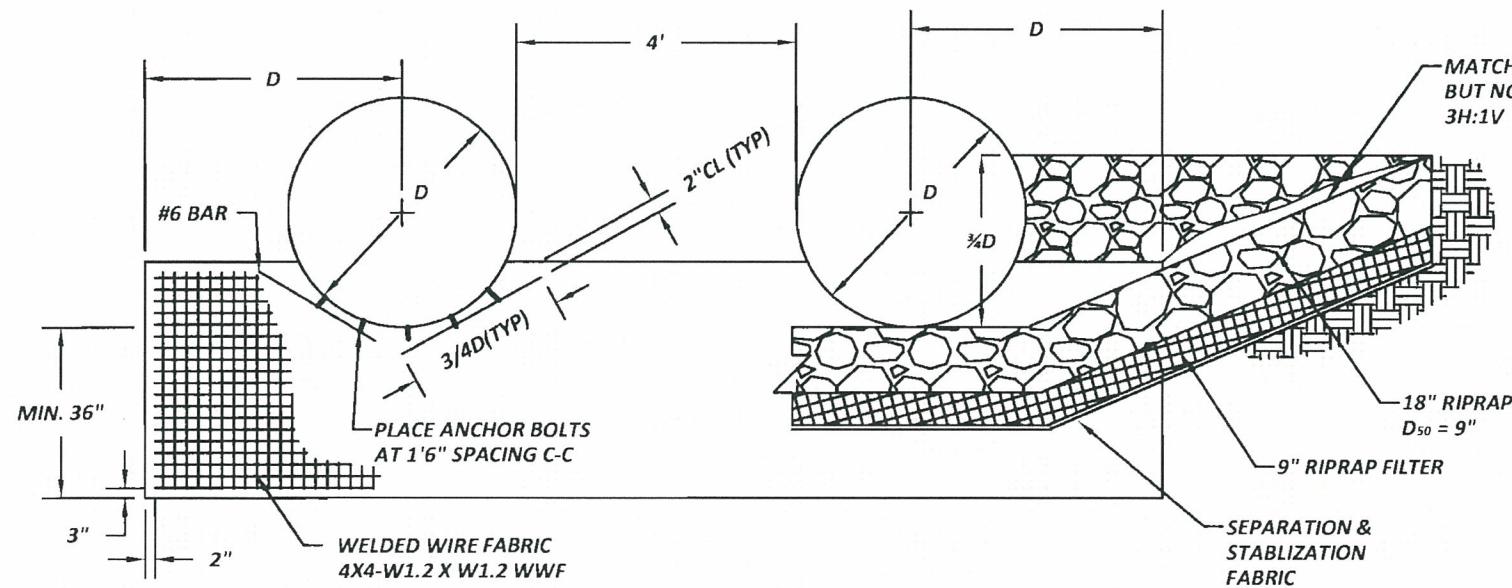
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FILE:15235\_Details.dwg



STATION	CUT-OFF WALLS		RIPRAP	
	INLET	OUTLET	LENGTH	WIDTH
60+80	YES	YES	45'	44'
96+05	YES	YES	55'	67'
237+30	YES	YES	65'	67'

RIPRAP GRADATION, $D_{50} = 9"$		RIPRAP FILTER GRADATION	
INTERMEDIATE ROCK DIMENSIONS (IN.)	% SMALLER BY WEIGHT	U.S. STANDARD SIEVE SIZE	% SMALLER BY WEIGHT
15	70-100	3"	90-100
12	50-70	1"	35-85
9	35-50	3/8"	0-50
3	2-10	#4	0-15



**ANCHOR BOLT DETAIL**

NOTE: CLEAN BOLTS AND NUTS AFTER GALVANIZING TO PROVIDE A FREE RUNNING FIT.

NOTE: CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL EXISTING CULVERTS WITHIN THE CONSTRUCTION LIMITS.

**CUT-OFF WALL FOR STEP BEVEL END FINISH SECTION D-D**

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FILE:15235 Details.dwg

SCALE	HORZ	VERT	REVISIONS
DRN.	MDH	BK:	JOB NO.
CHK.	TEA	PAGE:	DATE: 1-20-11

**INBERG-MILLER ENGINEERS**

124 East Main Street, Riverton, WY 82501, 307-856-8136  
 1120 East C Street, Casper, WY 82601, 307-577-0806  
 350 Parsley Boulevard, Cheyenne, WY 82007, 307-635-6827  
 257 Alan Road, Powell, WY 82435, 307-754-7170  
 193 Flaming Gorge Way, Green River, WY 82935, 307-875-4394

**CAMECO RESOURCES**

**DRY CREEK ROAD DETAILS**

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