# Appendix G. Major Waterbody Crossing Plans

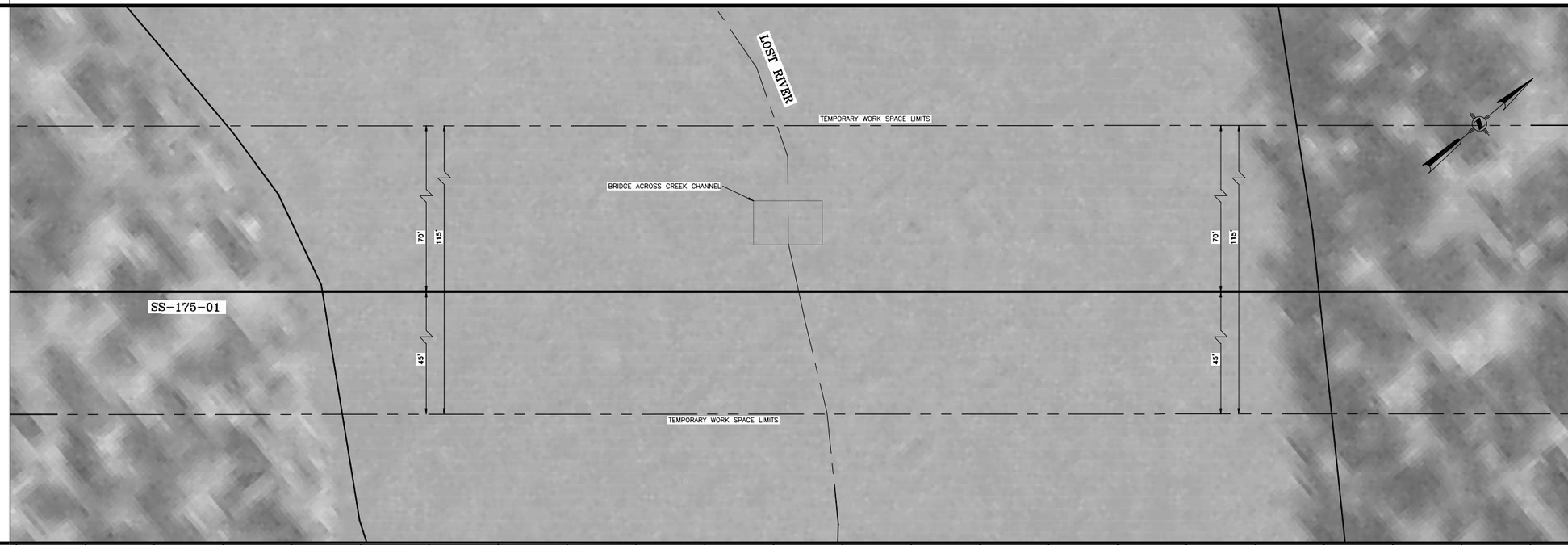
PIPELINE STATIONING

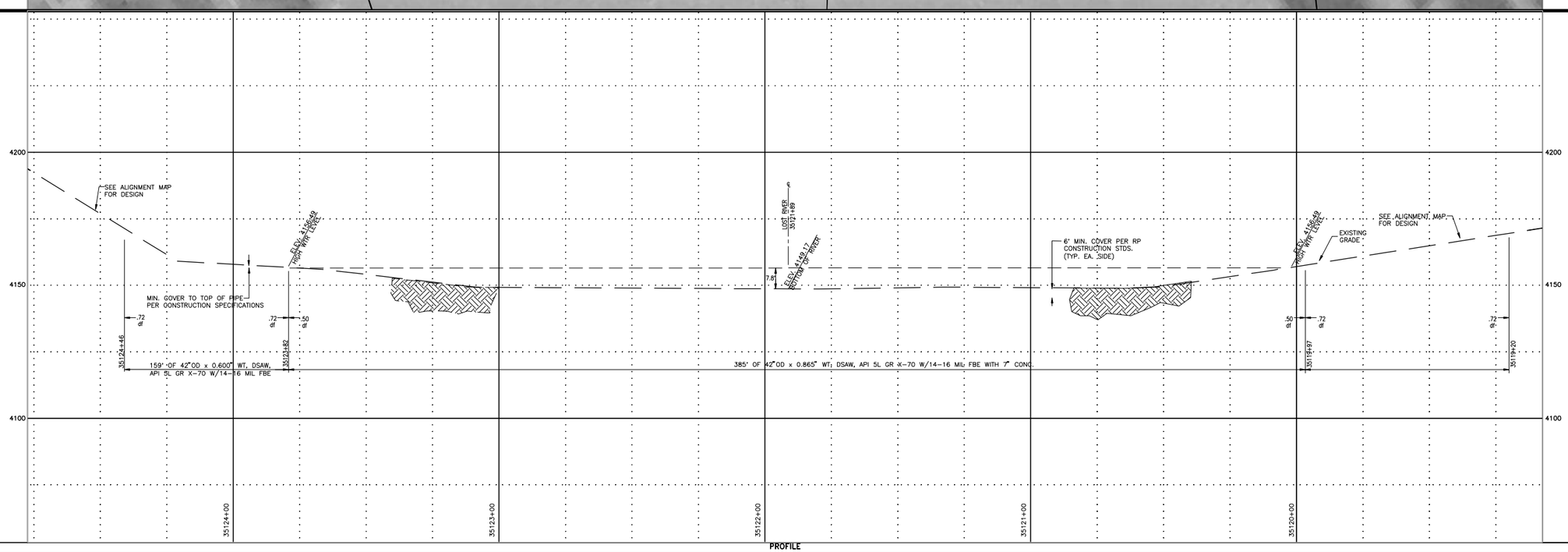
35123+72 EDGE OF LOST RIVER

35121+89 LOST RIVER

35120+07 EDGE OF LOST RIVER

ALIGNMENT




PROFILE

## REFERENCE DRAWINGS

300A-273 ALIGNMENT SHEET

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE.
10. A MINIMUM OF SIX (6) FEET OF COVER TO TOP OF CONCRETE COATING WILL BE REQUIRED AT THE ACTUAL CREEK CROSSING AND 50 FEET BACK FROM EACH CREEK BANK. THE REMAINDER OF THE CROSSING UP TO HIGH WATER MARK ON EACH SIDE WILL REQUIRE 5' OF COVER TO TOP OF CONCRETE.
11. RIPARIAN CANOPY OR STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
12. SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHOW BE PLACED ACROSS THE ROW AT ALL TIMES.

## SITE SPECIFIC NOTES

1. CONTRACTOR MAY SHIFT WORK SPACE AND SPOIL SIDE THROUGH THE CROSSING AS REQUIRED FOR DITCHING AND INSTALLATION OF PIPE.
2. CONTRACTOR MUST MAKE EVERY EFFORT TO SAVE ANY WOODY VEGETATION. BY WELDING PIPE IN THE TEMPORARY WORK SPACE AND DRAGGING OR CARRYING THE PIPE IN PLACE. THE WORK LIMITS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
3. ACTUAL PIPE CROSSING OF LOST CREEK WILL OCCUR AFTER RESERVOIR IS DRAINED FOR THE SEASON. THE REMAINING NARROW LOST CREEK (APPROX. 15' TO 20' WIDE) WILL BE INSTALLED AS A "DRY CROSSING" WITHIN A 72 HOUR PERIOD.
4. NO DITCH SPOIL WILL BE PLACED IN THE ACTUAL FLOWING PORTION OF THE CREEK.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50 & .72
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

20' 10' 0 20' 40'

SCALE: 1"=20' HORIZONTAL
1"=20' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 10, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING LOST RIVER

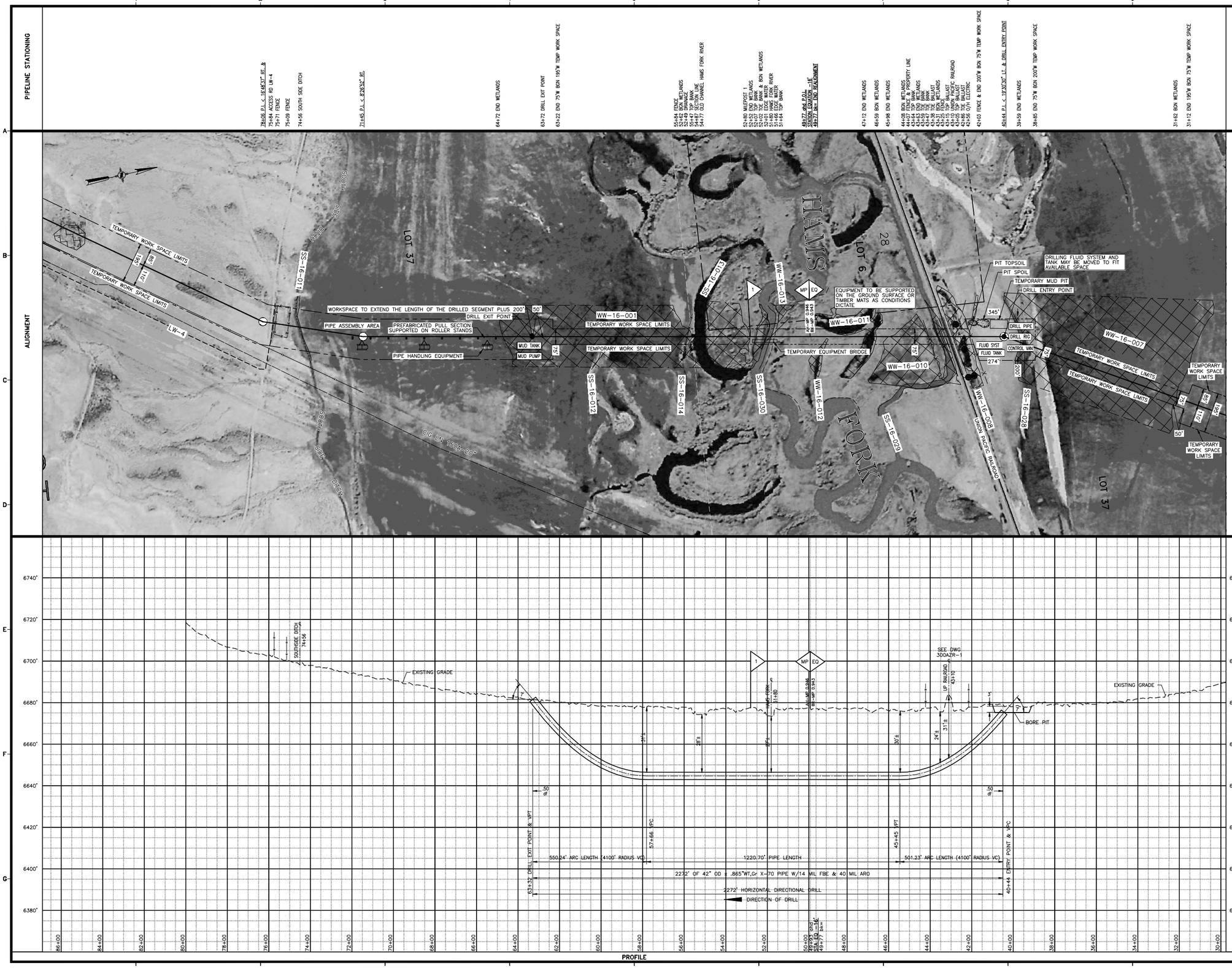
| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: OREGON | | Co./Par.: KLAMATH | |
| Section: 19 | Township: 41S | Range: 14E | |
| Drafter: DLM | Date: 10/22/09 | Project ID: 128576 | Type: |
| Chk'd: | Date: | Scale: AS SHOWN | CIVIL3D |
| Appr: | Date: | Filename: 0300-A-273A | |

300A-273A

Sheet: 1 of 1 Rev. 0

IMPLEMENTATION PLAN 05/24/2010

Jan 19, 2010 - 4:04PM




## REFERENCE DRAWINGS

| | |
|---|---|
| 300A-1 | ALIGNMENT SHEET |
| 300AZ-21 | US HWY 30 CROSSING |
| 300AZR-1 | UNION PACIFIC RR CROSSING |

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1. PIPE DESIGN FACTOR IS 0.50
2. RIVER CROSSING TO BE INSTALLED BY THE HORIZONTAL DIRECTIONAL DRILL (HDD) METHOD.
3. HDD CONTRACTOR TO DESIGN PROFILE IN ACCORDANCE WITH INDUSTRY STANDARDS AND EQUIPMENT LIMITATION.
4. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND HYDROSTATICALLY TESTED FOR 4 HOURS.
5. A MINIMUM OF FIFTEEN (15) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED UNDER THE RIVER. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL RIVER BED ELEVATION.
6. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
7. CONSTRUCTION WORK IF REQUIRED AT THE RIVER BANK SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
8. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL PLAN AND PROCEDURES.
9. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH BANKS OF THE RIVER SHALL BE MAINTAINED.
10. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
11. CONTRACTOR MAY INSTALL A TEMPORARY BRIDGE FOR DAILY TRAFFIC ACCROSS THE RIVER. CONTRACTOR HAS THE CHOICE OF INSTALLING GRAVEL OVER THE FLUME(S) OR USING MATTS, RAILROAD CARS OR OTHER PORTABLE BRIDGING TO BRIDGE THE RIVER.
12. IF GRAVEL IS USED ACROSS THE FLUME, CONTRACTOR WILL SPREAD THE GRAVEL ALONG LOWER BANKS FOR STABILIZATION OR ALONG STREAM BOTTOM AS SPAWNING HABITAT AFTER REMOVAL OF THE FLUME. THE GRADIENT AT THE STREAM BOTTOM MUST BE THE SAME AS BEFORE CONSTRUCTION STARTED. THE GRAVEL SHALL CONSIST OF 1" TO 3" DIAMETER ROUND RIVER ROCK WITH A MINIMUM OF FINE MATERIAL.
13. ROW IS LIMITED TO 75 FEET IN THE WETLANDS LOCATED AT WATERS EDGE ON BOTH SIDES OF THE RIVER.

## SITE SPECIFIC NOTES

1. CONTRACTOR MAY REQUEST A SHIFT IN WORK SPACE AS REQUIRED WITHIN THE STUDIED CORRIDOR.
2. CONTRACTOR WILL BE ALLOWED A ONE TIME PASS THROUGH THE RIVER CROSSING FOR EACH CONSTRUCTION CREW
3. EXTRA WORK SPACE IN RIVER WILL ONLY BE USED IN EVENT OF "FRAC OUT".
4. IF A "FRAC OUT" OCCURS IN THE RIVER
   (A) DRILLING IS TO CEASE IMMEDIATELY.
   (B) CONTRACTOR SHALL HAVE CONTAINMENT BOOMS OR SIMILAR CONTAINMENT DEVICE AVAILABLE TO CONTAIN DRILLING MUD IN THE RIVER.
   (C) CONTRACTOR SHALL ATTEMPT TO REMOVE AS MUCH OF THE DRILLING MUD AS PRACTICAL FROM THE RIVER BOTTOM BY SUCTION HOSE OR OTHER DEVICES.
   (D) CONTRACTOR MAY ATTEMPT TO RESUME DRILL WITH A ALTERNATE MUD VISCOSITY.
   (E) IF "FRAC OUT" CANNOT BE STOPPED BY CHANGING THE DRILLING FLUID, A NEW PILOT HOLE MAY BE DRILLED AT A DEEPER DEPTH.
   (F) OPEN CUTTING THE RIVER WILL ONLY BE PROPOSED IF ALL ATTEMPTS AT DRILLING FAIL. OPEN CUTTING REQUIRES PRIOR APPROVAL OF THE FREC, THE FISH & WILDLIFE SERVICE AND OTHER PERMITTING AGENCIES.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50
PRESSURE: 1000 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"= 20' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH CROSSING HAMS FORK RIVER (MP 0.98) AND UNION PACIFIC RAILROAD (MP 0.81) BY HORIZONTAL DIRECTIONAL DRILL

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: LINCOLN | |
| Section: LOT 37 | Township: 21N | Range: 114W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0001D | |
| 300A-1D | | Sheet: 1 of 1 | Rev. 0 |

IMPLEMENTATION PLAN 05/24/2010

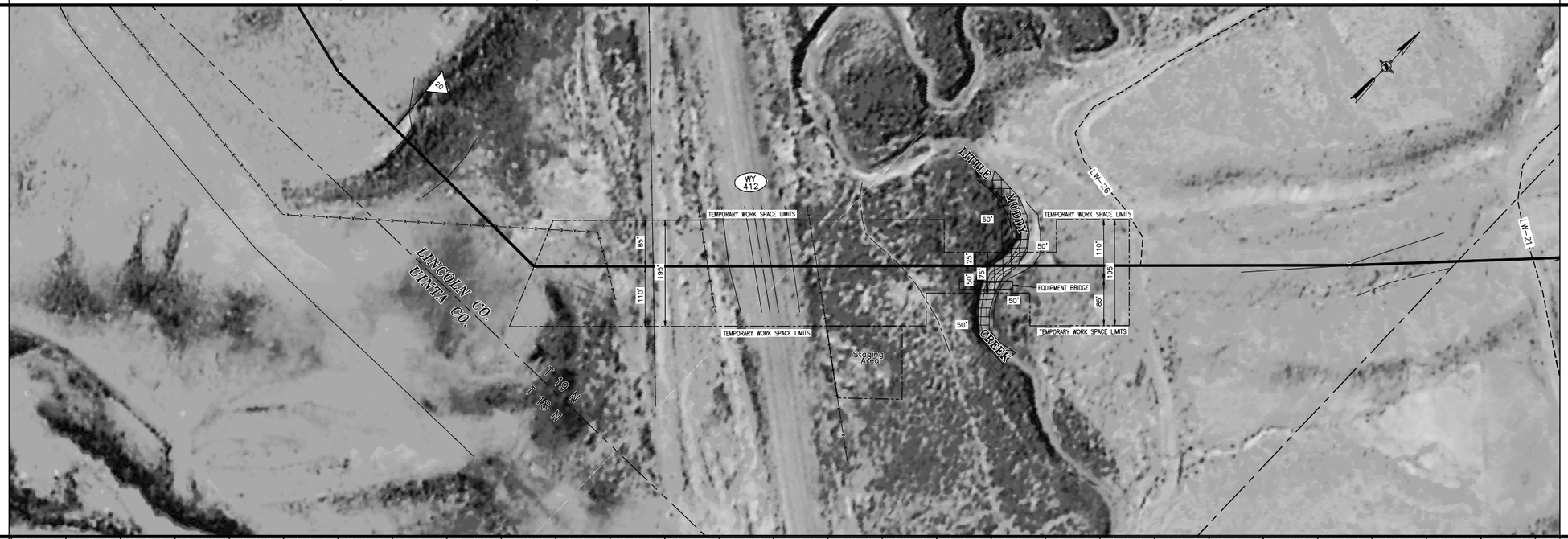
Jan 14, 2010 - 3:33PM

PIPELINE STATIONING

1057+46 P.I. < 13°49'20" RT.
1056+00 MILEPOST 20
1055+74 TOP BANK
1054+68 TOE BANK
1053+44 FENCE
1052+40 P.I. < 44°52'41" RT.
1052+18 END 195'W/BOR 115'W TEMP WORK SPACE
1051+23 FENCE CORNER, 63' RT.
1051+06 FENCE
1050+21 FOREIGN PIPELINE
1049+20 FENCE
1049+08 PROPERTY
1048+19 WY HWY 412, SEE DWG 300Z-22
1047+20 FENCE
1047+06 PROPERTY
1045+66 ROAD
1045+20 END 135'W/SOL/BOR/BOR 195' TEMP WORK SPACE
1044+85 END 75'W/BOR 135'(SOL/BOR) TEMP WORK SPACE
1044+10 TOP BANK
1044+08 END WETLANDS
1043+78 TOE BANK
1043+72 LITTLE MUDDY CREEK
1043+52 TOE BANK, EDGE WETLANDS
1043+25 END 135'W/BOR 75' TEMP WORK SPACE
1043+24 TOP BANK
1042+55 END 195'W/BOR 135'(SL/110'W) TEMP WORK SPACE
1041+46 END 115'W/BOR 195'W TEMP WORK SPACE
1041+25 ACCESS RD LW-26
1037+44 TOP BANK
1037+42 P.I. < 13°56'46" RT.
1035+29 SECTION LINE
1034+04 ACCESS RD LW-21

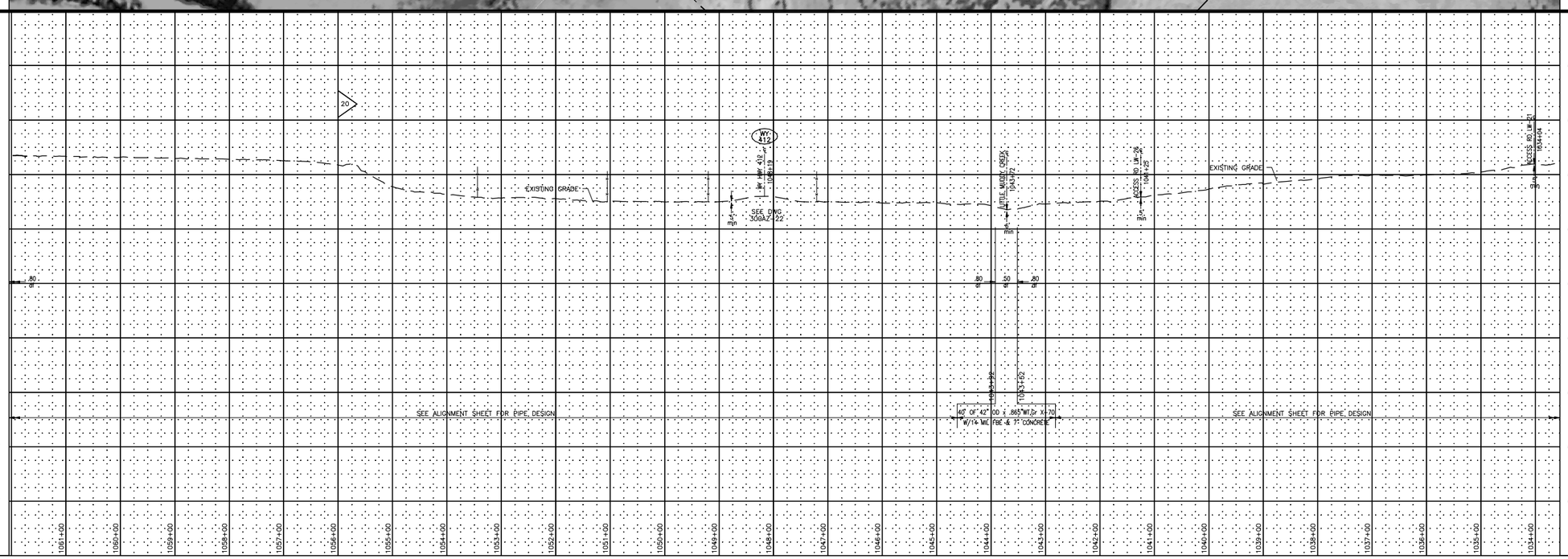
PIPELINE STATIONING

ALIGNMENT




ALIGNMENT

PROFILE




## REFERENCE DRAWINGS

| | |
|---|---|
| 300A-9 | ALIGNMENT SHEET |
| 300AZ-22 | WYOMING HWY 412 CROSSING |

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE TO BE COORDINATED WITH ENVIRONMENTAL INSPECTOR.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL. ANY VEGETATION THAT IS REMOVED SHALL BE REESTABLISHED IN A REASONABLE TIME FRAME AFTER CONSTRUCTION.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
    IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df= .50,.60 & .80
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"= 100' HORIZONTAL
1"= 100' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12 , NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING LITTLE MUDDY CREEK (MP 19.8)
AND WYOMING HIGHWY 412

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: LINCOLN | |
| Section: 31 | Township: 19N | Range: 116W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0009A | |
| 300A-9A | | Sheet: 1 of 1 | Rev. 0 |

IMPLEMENTATION PLAN 05/24/2010

Jan 14, 2010 - 3:40PM

PIPELINE STATIONING

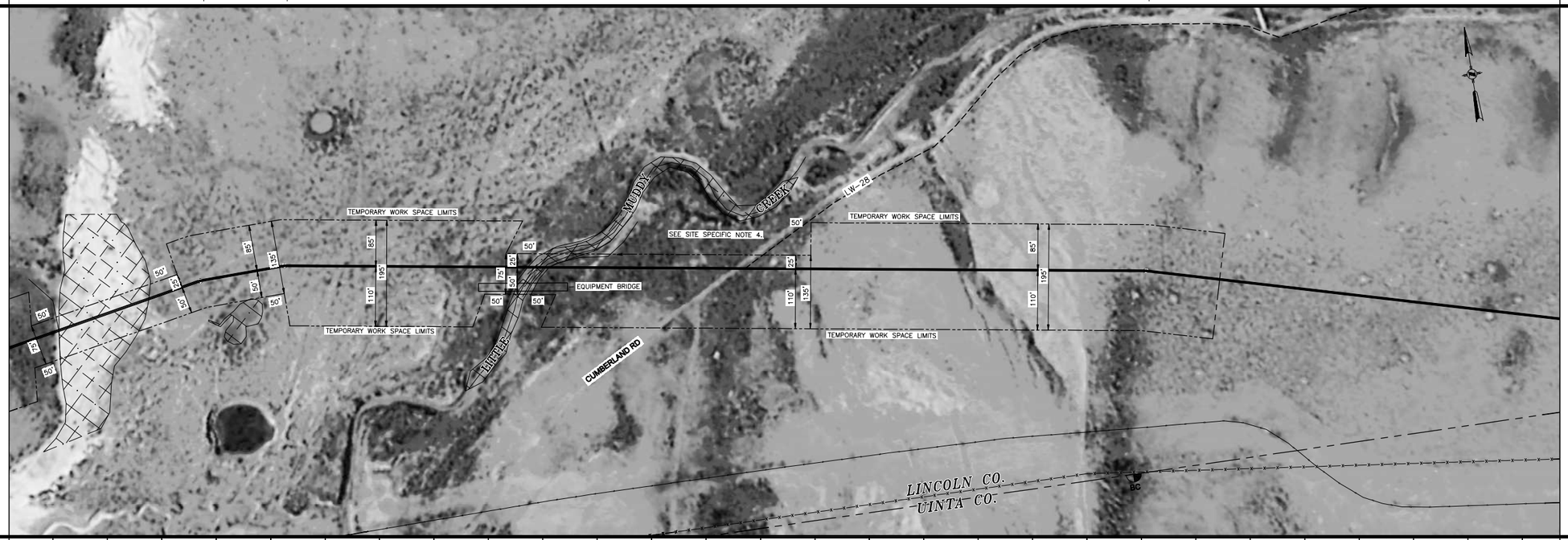
1066+57 END 75'W(50'/25'R)BRN 195'W(110'/85'R) TEMPORARY WORK SPACE
1066+08 TOE BANK
1066+07 END WETLANDS
1064+32 BGN WETLANDS
1063+70 END 135'W(50'/85'R)BRN 75'W(50'/25'R) TEMPORARY WORK SPACE
1063+33 P.I. ∠ 8°15'34" LT
1081+90 END 195'W(110'/85'R)BRN 135'W(50'/85'R) TEMPORARY WORK SPACE
1081+75 P.I. ∠ 5°00'00" LT
1077+66 END 75'W(50'/25'R)BRN 195'W(110'/85'R) TEMPORARY WORK SPACE
1077+39 TOP BANK
1077+16 END WETLANDS
1077+15 TOE BANK
1077+08 LITTLE MUDDY CREEK
1076+97 TOE BANK
1076+91 BGN WETLANDS
1076+89 TOP BANK
1076+41 END 135'W(50'/85'R)BRN 75'W(50'/25'R) TEMPORARY WORK SPACE
1073+29 ACCESS RD LW-28 (CUMBERLAND ROAD)
1072+10 END 195'W(110'/85'R)BRN 135'W(110'/25'R) TEMPORARY WORK SPACE
1065+92 P.I. ∠ 8°16'42" LT
1064+56 BGN 195'W(110'/85'R) TEMP WORK SPACE

PIPELINE STATIONING

## REFERENCE DRAWINGS

300A-9 ALIGNMENT SHEET

ALIGNMENT




ALIGNMENT

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
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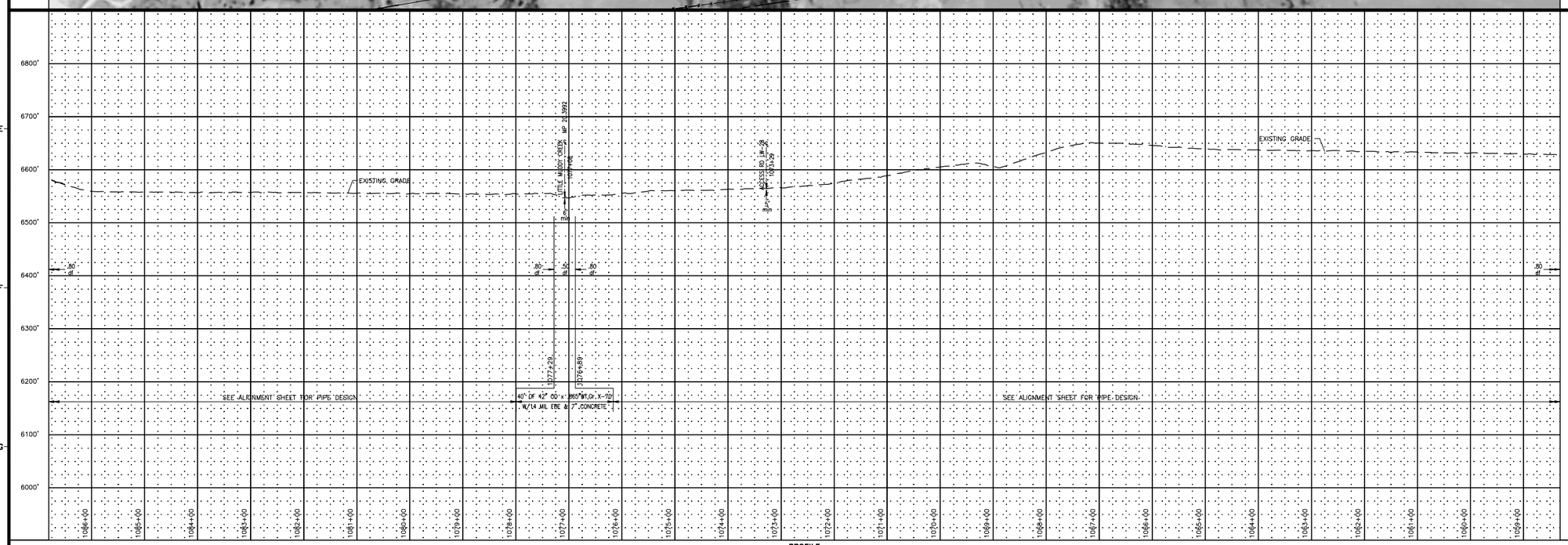
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
    IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.
4. EXTRA WORKSPACE REQUESTED WITHIN 50' OF WETLAND TO ACCOMMODATE SPOIL STORAGE.




## DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUED FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING LITTLE MUDDY CREEK (MP 20.4)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: LINCOLN | |
| Section: 31 | Township: 19N | Range: 116W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0009B | |

300A-9B

Sheet: 1 of 1 Rev: 0

IMPLEMENTATION PLAN 05/24/2010

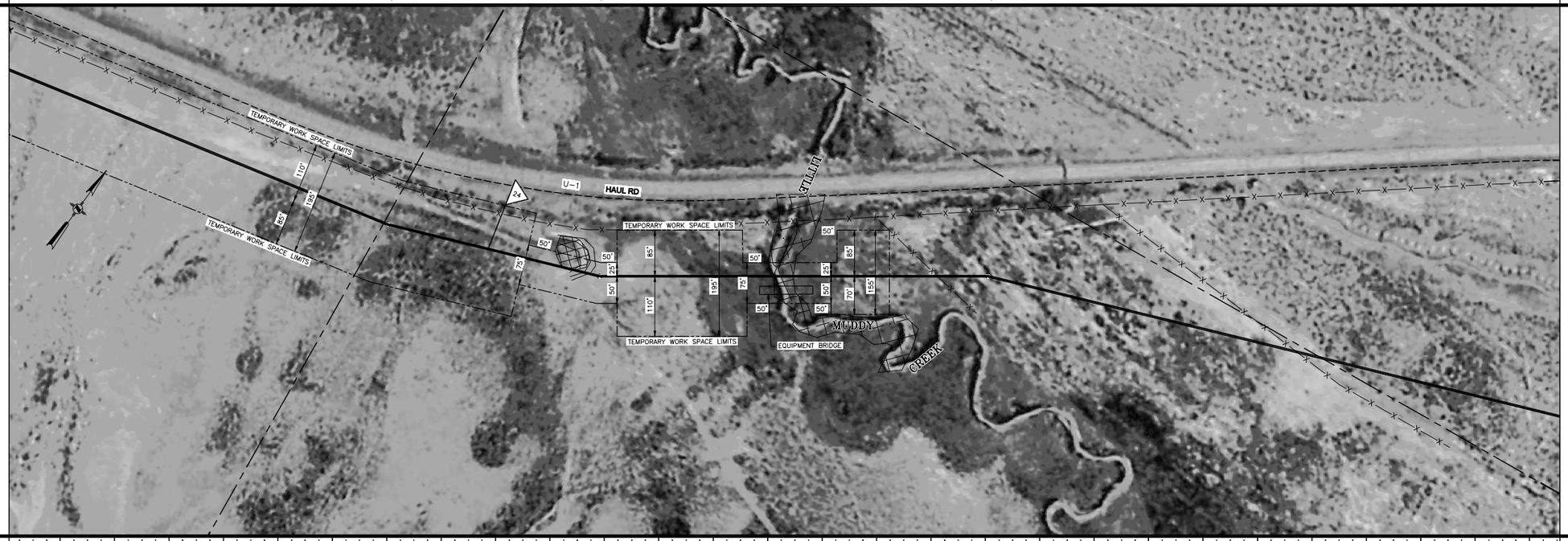
Jan 14, 2010 - 3:41PM

PIPELINE STATIONING

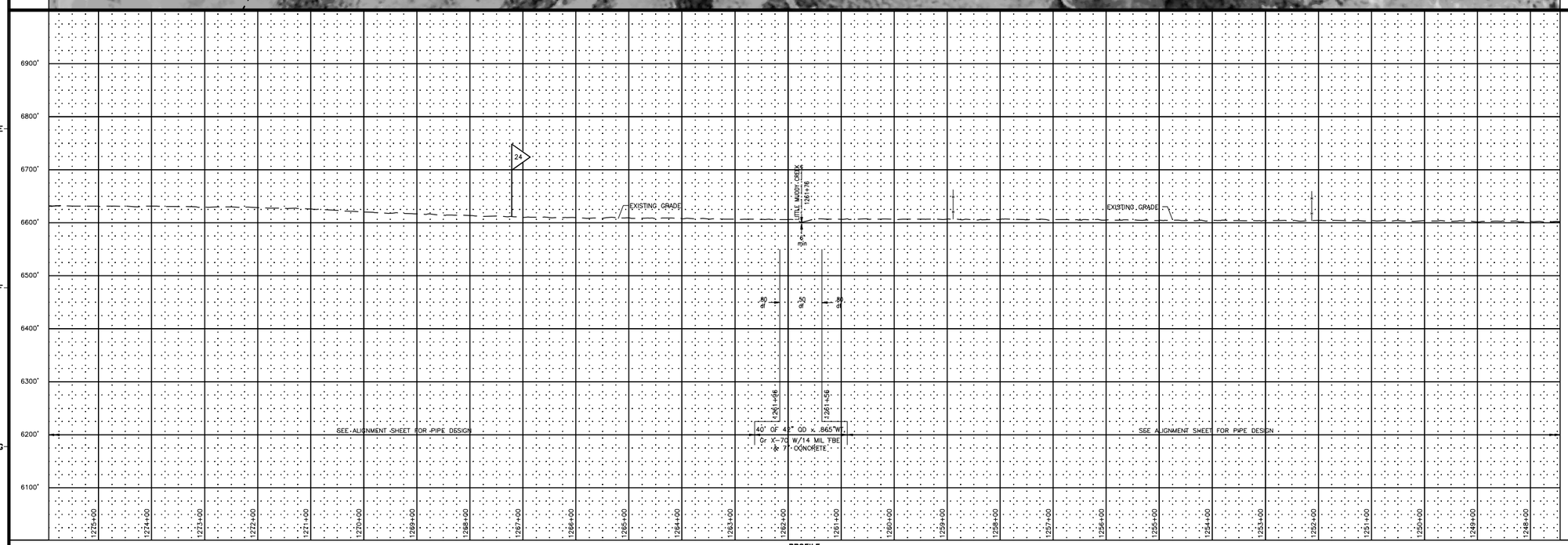
1269+18 SECTION LINE
1269+10 P.I. < 42°27'2" RT
1267+20 MILEPOST 24
1264+55 END 75'W/BGN 195'W TEMP WORK SPACE TEMPORARY WORK SPACE
1265+74 END WETLANDS
1265+57 TOE BANK & BGN WETLANDS
1265+38 TOP BANK
1265+30 TOE BANK
1264+90 P.I. < 34°55'3" RT
1264+80 END 195'W/BGN 75'W TEMP WORK SPACE TEMPORARY WORK SPACE
1262+39 END 75'W(70'L/25'R)BGN 165'W(110'L/55'R) TEMPORARY WORK SPACE
1261+89 END WETLANDS
1261+80 TOP BANK
1261+78 LITTLE MUDDY CREEK
1261+65 TOE BANK
1261+53 BGN WETLANDS
1261+03 END 155'W(70'L/85'R)BGN 75'W(50'L/25'R) TEMPORARY WORK SPACE
1259+77 BGN 155'W(70'L/85'R) TEMP WORK SPACE
1258+88 FENCE
1257+95 P.I. < 13°45'30" LT
1252+12 FENCE
1251+65 SECTION LINE

PIPELINE STATIONING

ALIGNMENT




ALIGNMENT




PROFILE

## REFERENCE DRAWINGS

300A-11 ALIGNMENT SHEET

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE TO BE COORDINATED WITH ENVIRONMENTAL INSPECTOR.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL. ANY VEGETATION THAT IS REMOVED SHALL BE REESTABLISHED IN A REASONABLE TIME FRAME AFTER CONSTRUCTION.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.60 &
PRESSURE: 1440 PSIG MAOP .80

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING LITTLE MUDDY CREEK
(MP 24.0)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: UINTA | |
| Section: 10 | Township: 18N | Range: 117W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0011A | |
| 300A-11A | | Sheet: 1 of 1 | Rev. 0 |

IMPLEMENTATION PLAN 05/24/2010

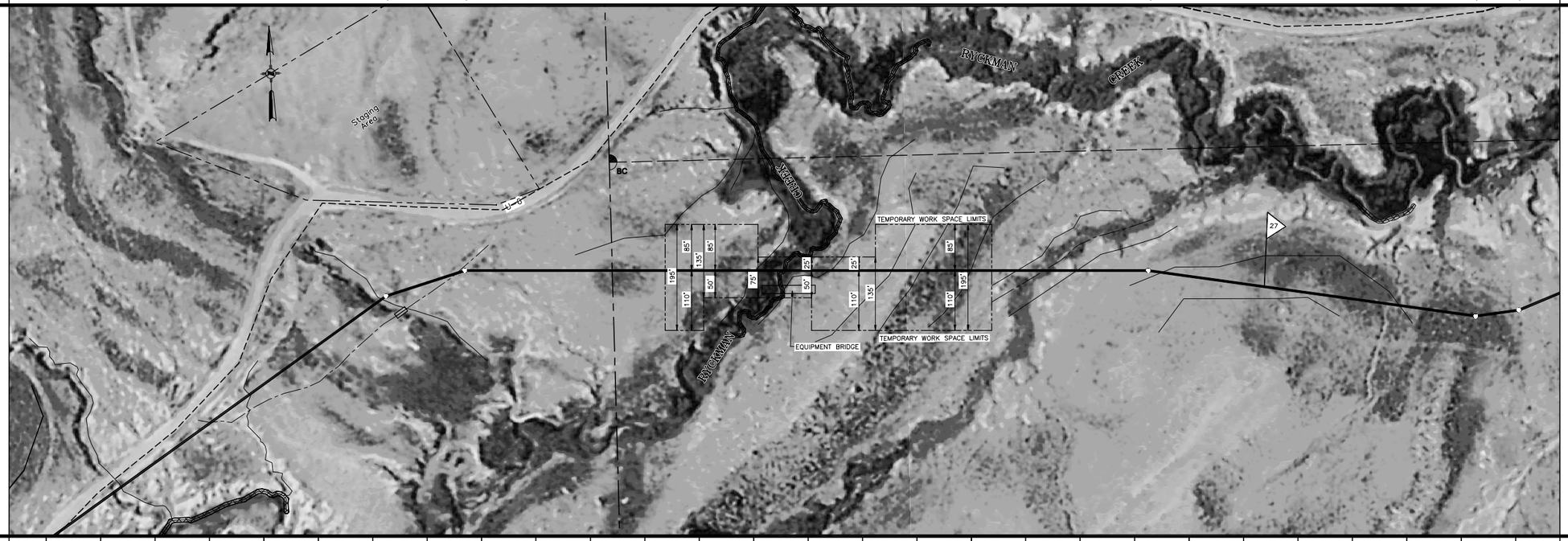
Jan 14, 2010 - 3:47PM

PIPELINE STATIONING

1441+83 P.I. < 17°54'32" LT.
1440+47 ROAD
1440+31 P.I. < 17°54'32" LT.
1437+60 SECTION LINE
1436+43 END 195'W TEMP WORK SPACE
1436+00 END 135'W(107'/25'R)/BGN 195'W TEMPORARY WORK SPACE
1435+00 END 75'W/BGN 135'W(50'/25'R) TEMPORARY WORK SPACE
1434+88 TOE BANK
1434+54 END WETLANDS
1434+44 RYCKMAN CREEK
1434+40 BGN WETLANDS
1434+00 END 135'W(110'/25'R)/BGN 75'W TEMPORARY WORK SPACE
1433+61 TOE BANK
1432+90 END 195'W/BGN 135'W(110'/25'R) TEMPORARY WORK SPACE
1432+47 TOP BANK
1431+94 TOP BANK
1431+02 TOE BANK
1430+43 BGN 195'W TEMP WORK SPACE
1430+16 TOP BANK
1429+67 DRAINAGE
1429+46 TOP BANK
1427+75 P.I. < 7°35'16" LT.
1427+50 TOE BANK
1425+60 MILEPOST 27
1423+09 TOE BANK
1421+68 P.I. < 15°45'32" RT.
1420+88 P.I. < 14°42'27" RT.

PIPELINE STATIONING

ALIGNMENT




ALIGNMENT

6900' 6800' 6700' 6600' 6500' 6400' 6300' 6200' 6100'

ROAD 1440+40 P.I. min
EXISTING GRADE
RYCKMAN CREEK 1434+44 P.I. min
EXISTING GRADE
27
.50 df
1434+84
1434+104
80' OF 42" OD x .865"WT. Gr X-70 W/14. MIL FBE .75" CONC.
SEE ALIGNMENT SHEET FOR PIPE DESIGN
SEE ALIGNMENT SHEET FOR PIPE DESIGN

1448+00 1447+00 1446+00 1445+00 1444+00 1443+00 1442+00 1441+00 1440+00 1439+00 1438+00 1437+00 1436+00 1435+00 1434+00 1433+00 1432+00 1431+00 1430+00 1429+00 1428+00 1427+00 1426+00 1425+00 1424+00 1423+00 1422+00 1421+00

PROFILE

## REFERENCE DRAWINGS

300A-13 ALIGNMENT SHEET

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE TO BE COORDINATED WITH ENVIRONMENTAL INSPECTOR.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL. ANY VEGETATION THAT IS REMOVED SHALL BE REESTABLISHED IN A REASONABLE TIME FRAME AFTER CONSTRUCTION.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50 &
PRESSURE: 1440 PSIG MAOP .80

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUED FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING RYCKMAN CREEK (MP 27.2)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: UINTA | |
| Section: 17 | Township: 18N | Range: 117W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | Filename: 0300-A-0013A |
| Appr: | Date: | | |

300A-13A

Sheet: 1 of 1 Rev. 0

Jan 14, 2010 - 3:04PM

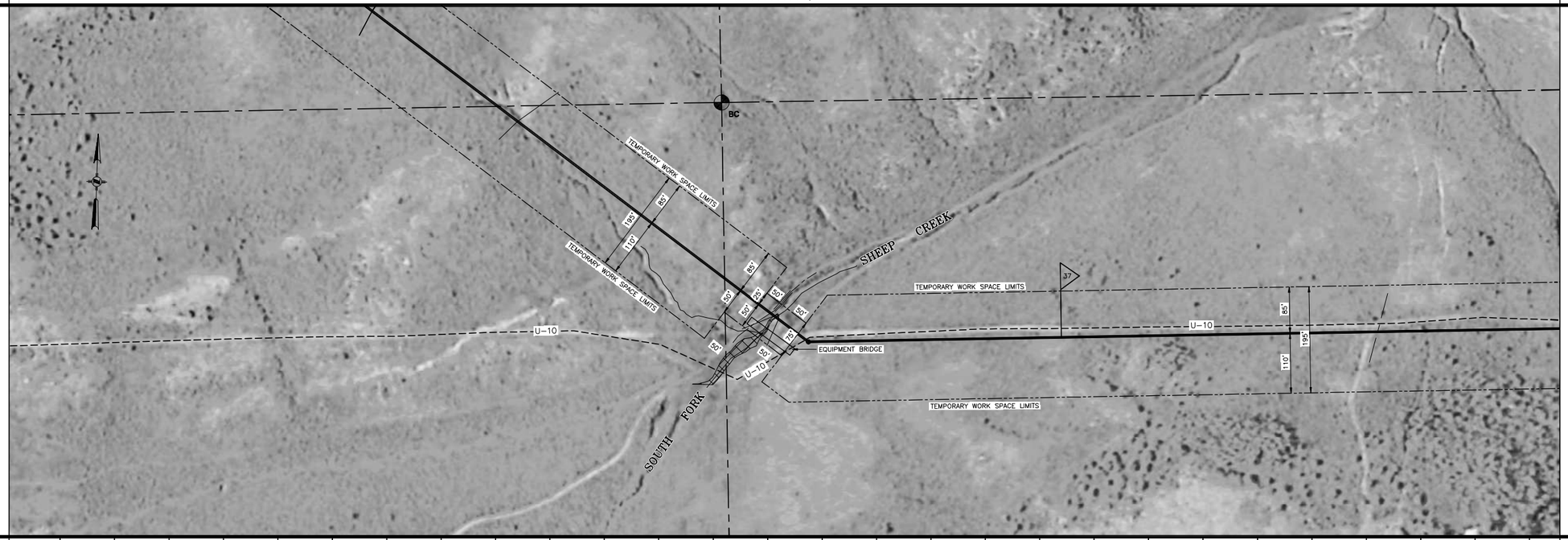
IMPLEMENTATION PLAN 05/24/2010

PIPELINE STATIONING

1965+41 SECTION LINE
1964+95 TOP BANK
1960+18 SECTION LINE
1959+90 END TEMP WORK SPACE
1959+54 END TEMP WORK SPACE
1959+50 BEGIN TEMP WORK SPACE
1959+12 ROAD
1959+10 TOP BANK
1959+04 END WETLANDS
1959+00 S. FORK SHEEP CREEK
1958+90 BEGIN WETLANDS
1958+64 TOE BANK
1958+44 END TEMP WORK SPACE
1958+31 ACCESS RD U-10
1958+25 P.I. = 38°10'18" RT.
1953+60 MILEPOST 37
1947+79 ROAD

PIPELINE STATIONING

ALIGNMENT

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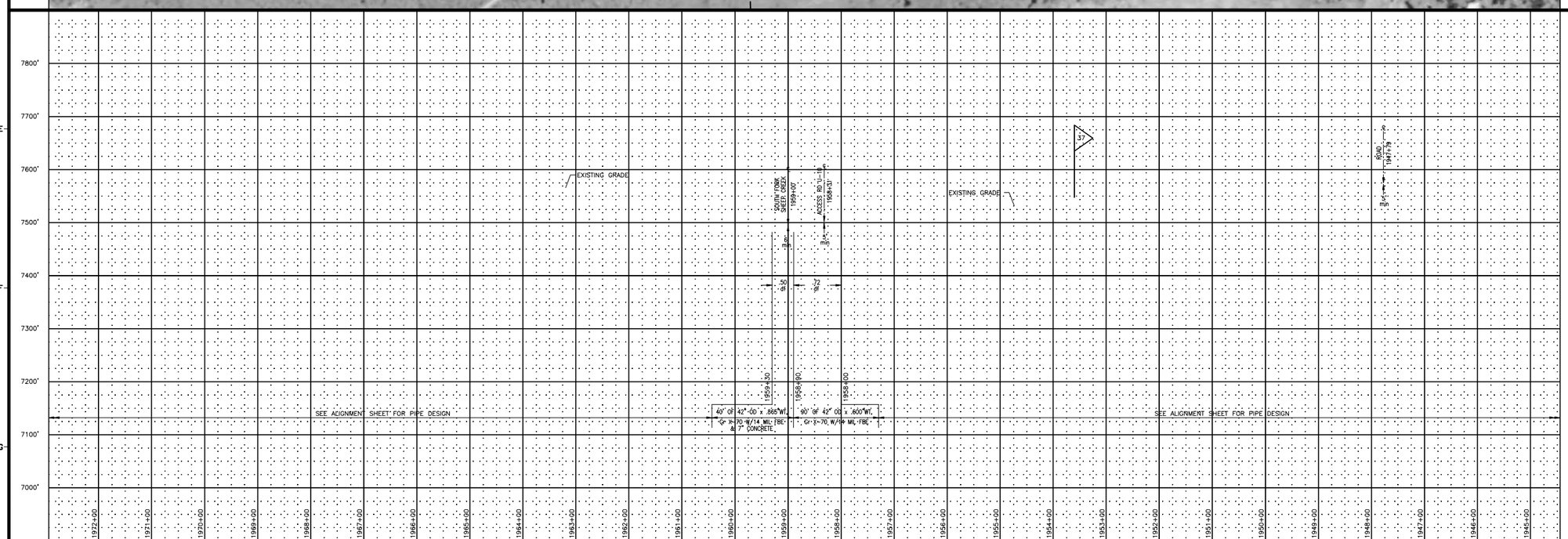



PROFILE

## REFERENCE DRAWINGS

300A-17 ALIGNMENT SHEET

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE TO BE COORDINATED WITH ENVIRONMENTAL INSPECTOR.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL. ANY VEGETATION THAT IS REMOVED SHALL BE REESTABLISHED IN A REASONABLE TIME FRAME AFTER CONSTRUCTION.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.80 &.72
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12 , NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128574 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128574 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING SOUTH FORK SHEEP CREEK
(MP 37.1)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: WYOMING | | Co./Par.: UINTA | |
| Section: 26 | Township: 18N | Range: 119W | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128574 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0017A | |

300A-17A

Sheet: 1 of 1 Rev. 0

IMPLEMENTATION PLAN 05/24/2010

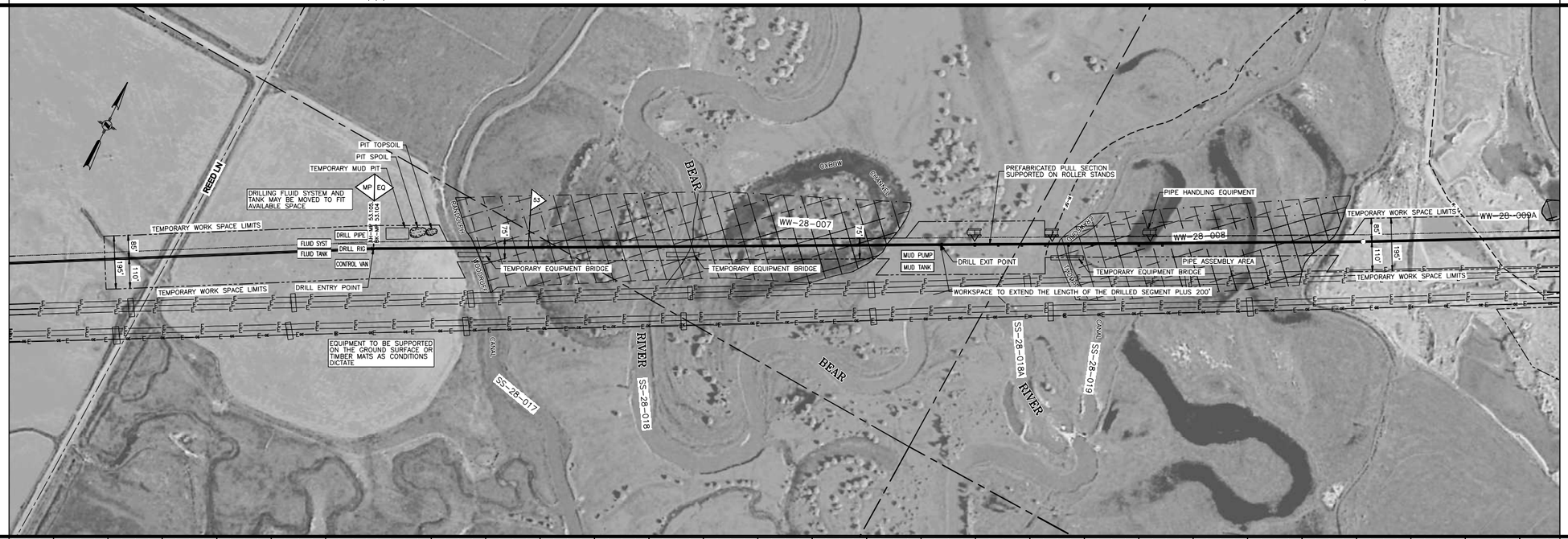
Jan 14, 2010 - 4:01PM

PIPELINE STATIONING

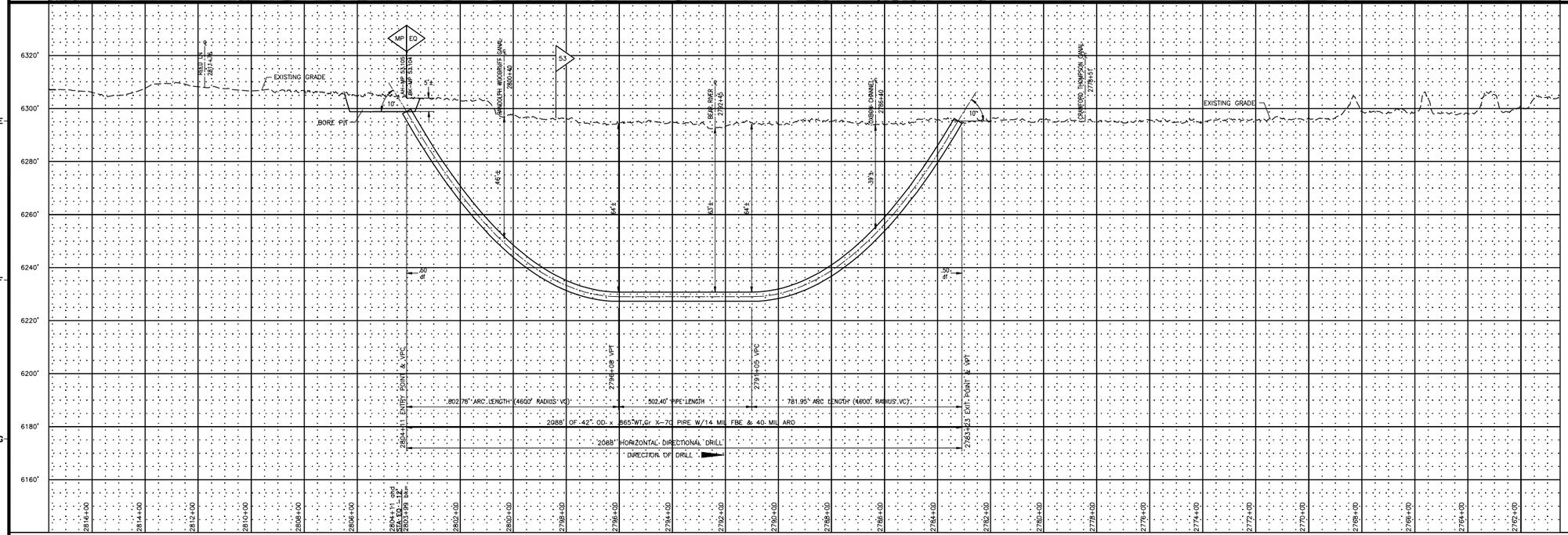
2814+00 END 195'W TEMP WORK SPACE
2811+76 REED LANE
2804+11 pvc < 115170.7' LT & DRILL ENTRY POINT
SUDDEN EQUATION = 13'
2803+99 3pc= END REALIGNMENT
2800+52 END 75'W/BGN 195'W TEMP WORK SPACE
2800+32 END BGN WETLANDS
2800+31 RANDOLPH WOODRUFF CANAL
2798+42 MILEPOST 53
2795+64 SECTION LINE
2792+45 BEAR RIVER
2785+30 BGN WETLANDS
2784+80 END 195'W/BGN 75'W TEMP WORK SPACE
2780+53 SECTION LINE
2779+61 END 75'W/BGN 195'W TEMP WORK SPACE
2779+34 CROSS 69 KV LINE
2778+91 END WETLANDS
2778+51 CRAWFORD THOMPSON CANAL
2769+00 BGN WETLANDS
2768+50 END 195'W/BGN 75'W TEMP WORK SPACE
2767+37 P.I. < 21°03'0" RT
2763+00 ACCESS RD R-54
2761+60 END 135'W(110'/25'RGHT) 195'W(110'/85'R) TEMPORARY WORK SPACE

PIPELINE STATIONING

ALIGNMENT




ALIGNMENT




PROFILE

## REFERENCE DRAWINGS

300A-23 ALIGNMENT SHEET

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1. PIPE DESIGN FACTOR IS 0.50
2. RIVER CROSSING TO BE INSTALLED BY THE HORIZONTAL DIRECTIONAL DRILL (HDD) METHOD.
3. HDD CONTRACTOR TO DESIGN PROFILE IN ACCORDANCE WITH INDUSTRY STANDARDS AND EQUIPMENT LIMITATION.
4. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND HYDROSTATICALLY TESTED FOR 4 HOURS.
5. A MINIMUM OF FIFTEEN (15) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED UNDER THE RIVER. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL RIVER BED ELEVATION.
6. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
7. CONSTRUCTION WORK IF REQUIRED AT THE RIVER BANK SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
8. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL PLAN AND PROCEDURES.
9. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH BANKS OF THE RIVER SHALL BE MAINTAINED.
10. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
11. CONTRACTOR MAY INSTALL A TEMPORARY BRIDGE FOR DAILY TRAFFIC ACCROSS THE RIVER. CONTRACTOR HAS THE CHOICE OF INSTALLING GRAVEL OVER THE FLUME(S) OR USING MATTS, RAILROAD CARS OR OTHER PORTABLE BRIDGING TO BRIDGE THE RIVER.
12. IF GRAVEL IS USED ACROSS THE FLUME, CONTRACTOR WILL SPREAD THE GRAVEL ALONG LOWER BANKS FOR STABILIZATION OR ALONG STREAM BOTTOM AS SPAWNING HABITAT AFTER REMOVAL OF THE FLUME. THE GRADIENT AT THE STREAM BOTTOM MUST BE THE SAME AS BEFORE CONSTRUCTION STARTED. THE GRAVEL SHALL CONSIST OF 1" TO 3" DIAMETER ROUND RIVER ROCK WITH A MINIMUM OF FINE MATERIAL.
13. ROW IS LIMITED TO 75 FEET IN THE WETLANDS LOCATED AT WATERS EDGE ON BOTH SIDES OF THE RIVER.

## SITE SPECIFIC NOTES

1. CONTRACTOR MAY REQUEST A SHIFT IN WORK SPACE AS REQUIRED WITHIN THE STUDIED CORRIDOR.
2. CONTRACTOR WILL BE ALLOWED A ONE TIME PASS THROUGH THE RIVER CROSSING FOR EACH CONSTRUCTION CREW
3. EXTRA WORK SPACE IN RIVER WILL ONLY BE USED IN EVENT OF "FRAC OUT".
4. IF A "FRAC OUT" OCCURS IN THE RIVER
   (A) DRILLING IS TO CEASE IMMEDIATELY.
   (B) CONTRACTOR SHALL HAVE CONTAINMENT BOOMS OR SIMILAR CONTAINMENT DEVICE AVAILABLE TO CONTAIN DRILLING MUD IN THE RIVER.
   (C) CONTRACTOR SHALL ATTEMPT TO REMOVE AS MUCH OF THE DRILLING MUD AS PRACTICAL FROM THE RIVER BOTTOM BY SUCTION HOSE OR OTHER DEVICES.
   (D) CONTRACTOR MAY ATTEMPT TO RESUME DRILL WITH A ALTERNATE MUD VISCOSITY.
   (E) IF "FRAC OUT" CANNOT BE STOPPED BY CHANGING THE DRILLING FLUID, A NEW PILOT HOLE MAY BE DRILLED AT A DEEPER DEPTH.
   (F) OPEN CUTTING THE RIVER WILL ONLY BE PROPOSED IF ALL ATTEMPTS AT DRILLING FAIL. OPEN CUTTING REQUIRES PRIOR APPROVAL OF THE FREC, THE FISH & WILDLIFE SERVICE AND OTHER PERMITTING AGENCIES.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"= 20' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128575 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128575 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH CROSSING BEAR RIVER (MP 52.9) AND THE RANDOLPH WOODRUFF CANAL BY HORIZONTAL DIRECTIONAL DRILL

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: UTAH | | Co./Par.: RICH | |
| Section: 10, 11 | Township: 9N | Range: 7E | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128575 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0023A | |
| 300A-23A | | Sheet: 1 of 1 | Rev. 0 |

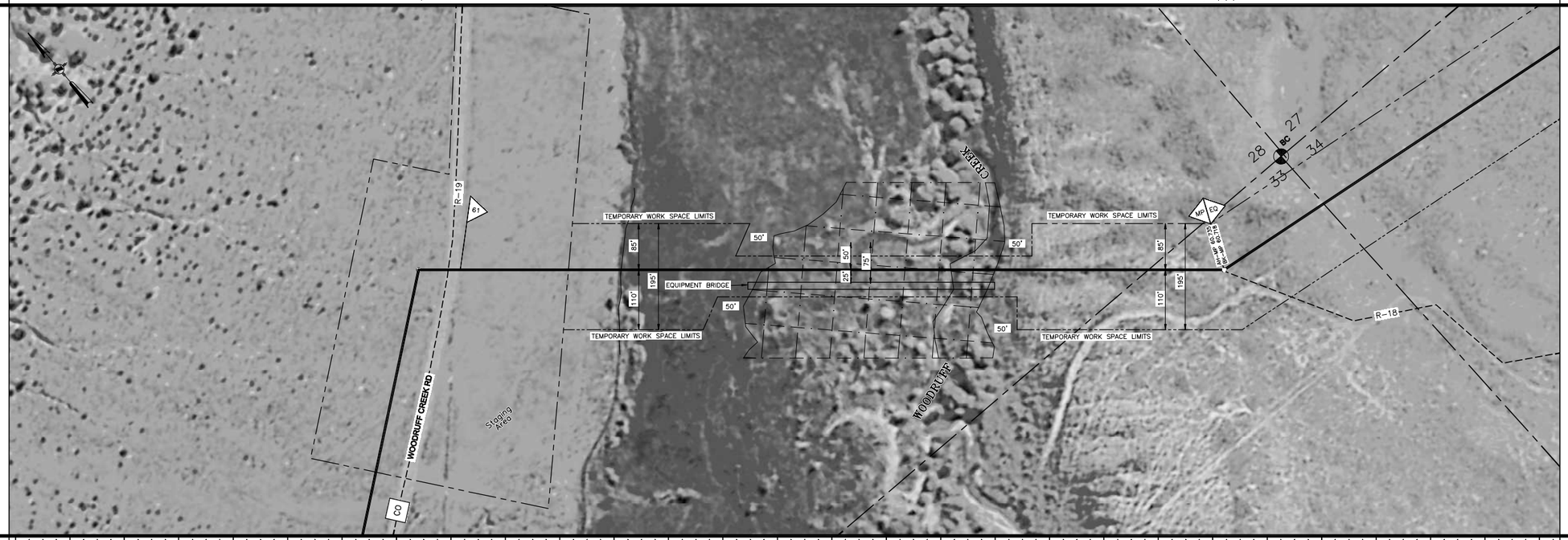
IMPLEMENTATION PLAN 05/24/2010

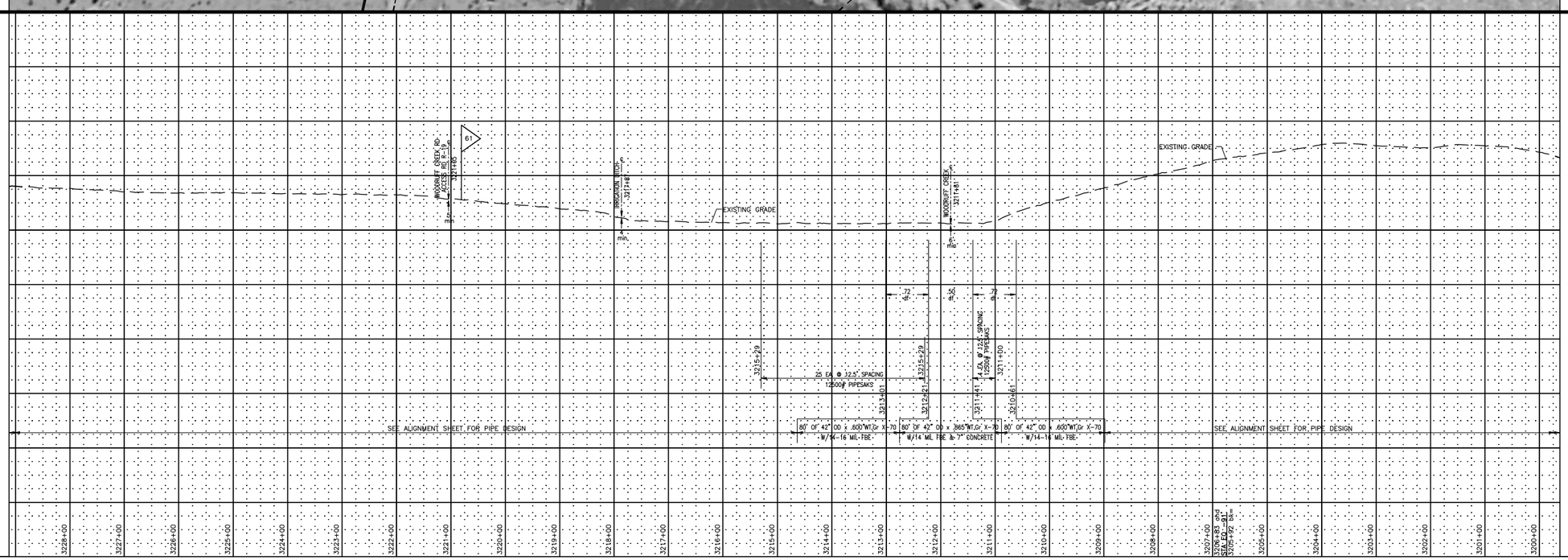
Jan 14, 2010 - 4:09PM

PIPELINE STATIONING

3224+67 END STAGING AREA
3221+59 P.I. ∠ 28°05'02" LT.
3221+05 ACCESS RD R-19(WOODRUFF CREEK RD)
3220+80 MILEPOST 61
3216+92 END 195'W/BGN STAGING AREA
3217+87 DRAINAGE
3215+25 END 75'W/BGN 195'W TEMP WORK SPACE
3215+24 END WETLANDS
3211+81 WOODRUFF CREEK
3211+00 BGN WETLANDS
3210+50 END 195'W/BGN 75'W TEMP WORK SPACE
3208+18 SECTION LINE
3207+02 ACCESS RD R-18
3206+83 and ∠ 33°31'06" RT STATION EQUATION =21 3205+22 Ahead = End BREAKPOINT
3203+29 SECTION LINE

ALIGNMENT




PROFILE

## REFERENCE DRAWINGS

| | |
|---|---|
| 300A-26 | ALIGNMENT SHEET |
| 300A-27 | ALIGNMENT SHEET |

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE FROM INSTREAM SPOIL. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE TO BE COORDINATED WITH ENVIRONMENTAL INSPECTOR.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL. ANY VEGETATION THAT IS REMOVED SHALL BE REESTABLISHED IN A REASONABLE TIME FRAME AFTER CONSTRUCTION.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.
14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
    IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128575 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128575 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING WOODRUFF CREEK (MP 60.8)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: UTAH | | Co./Par.: RICH | |
| Section: 28 | Township: 9N | Range: 6E | |
| Drafter: JDK | Date: 02/04/09 | Project ID: 128575 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0026A | |
| 300A-26A | | Sheet: 1 of 1 | Rev: 0 |

IMPLEMENTATION PLAN 05/24/2010

Jun 14, 2010 - 41:04

PIPELINE STATIONING

4127+32 204 < 18"x36" RT & GAS PIPELINE 98LT
4127+32 BEGIN L.F. 4127+32 = 4127+36
4127+36 BK= END REALIGNMENT

4122+36 SECTION LINE

4119+75 END 195'W/BGN 115'W TEMP WORK SPACE

4118+40 MILEPOST 78

4113+49 END 75'W/BGN 195'W TEMP WORK SPACE.

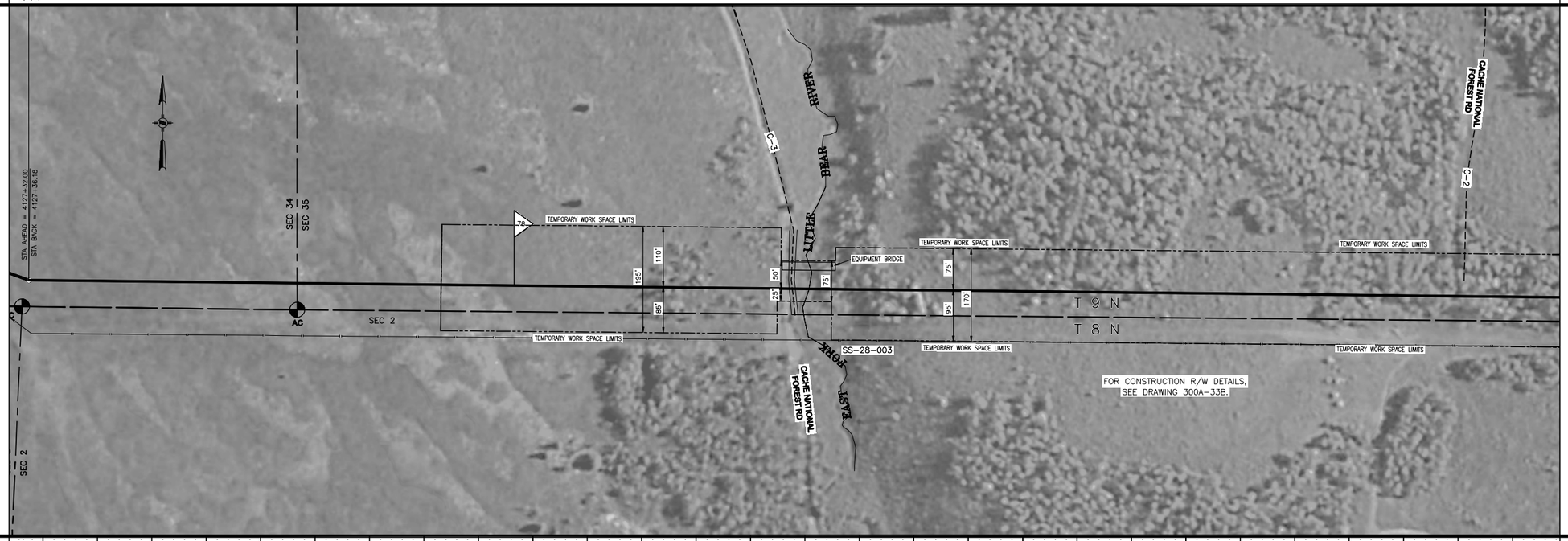
4113+29 ACCESS RD C-3

4112+99 E. FORK LITTLE BEAR RIVER

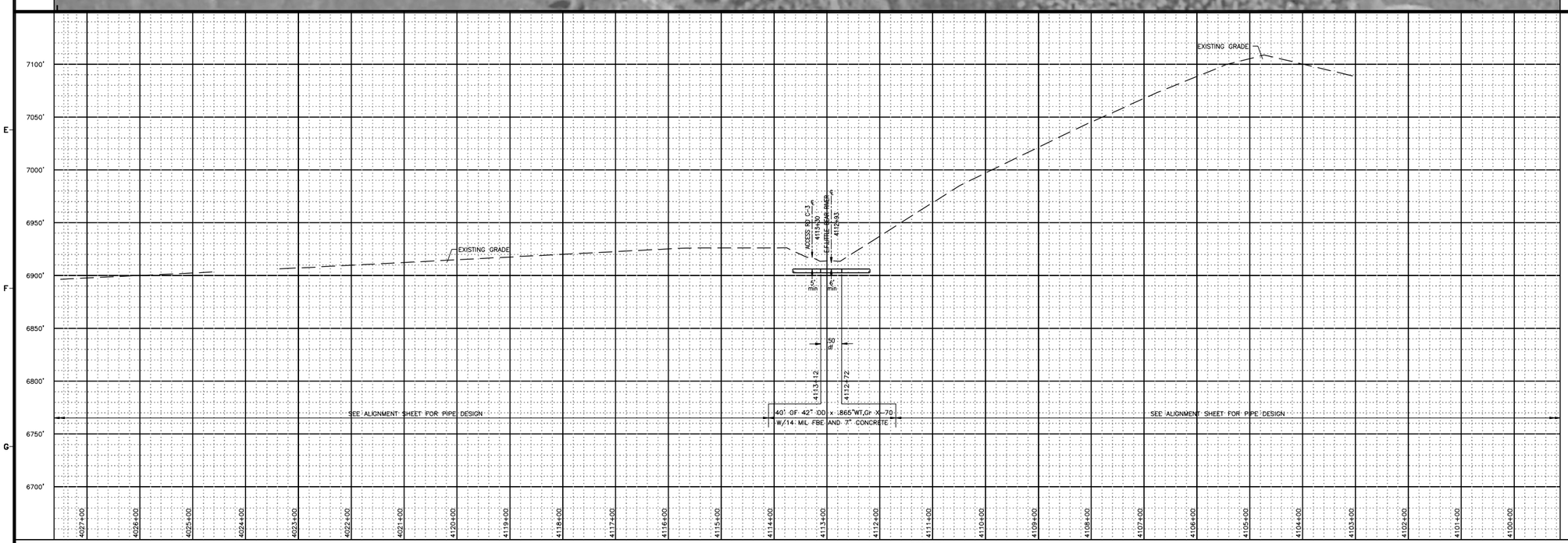
4112+49 END 195'W/BGN 75'W TEMP WORK SPACE. SEE DWG 300A-33B

PIPELINE STATIONING

ALIGNMENT




ALIGNMENT




PROFILE

## REFERENCE DRAWINGS

300A-33 ALIGNMENT SHEET
300A-33B CONSTRUCTION RIGHT OF WAY PLAN

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING. IN THE TRAVEL LANE,THESE MAY CONSIST OF REMOVABLE SEDIMENT BARRIERS OR DRIVABLE BERMS.
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14. IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND NOVEMBER 30 FOR WARM WATER FISHERIES.
IN STREAM WORK TO BE PERFORMED BETWEEN JUNE 1 AND SEPTEMBER 30 FOR COLD WATER FISHERIES.

## SITE SPECIFIC NOTES

1. CROSSING TO BE INSTALLED UTILIZING THE DRY CROSSING METHOD (FLUME AND/OR DAM AND PUMP).
2. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 24 HOUR DURATION.

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"=50' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12 , NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| B | 3/18/10 | JDK | IMPLEMENTATION FILING | 128575 | JJJ |
| A | 7/10/09 | JDK | ISSUE FOR FERC FILING | 128575 | JJJ |

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING EAST FORK LITTLE
BEAR RIVER (MP 77.9)

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: UTAH | | Co./Par.: CACHE | |
| Section: 35 | Township: 9N | Range: 3E | |
| Drafter: ATB | Date: 07/24/09 | Project ID: 128575 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0033A | |

300A-33A

Sheet: 1 of 1 Rev: 0

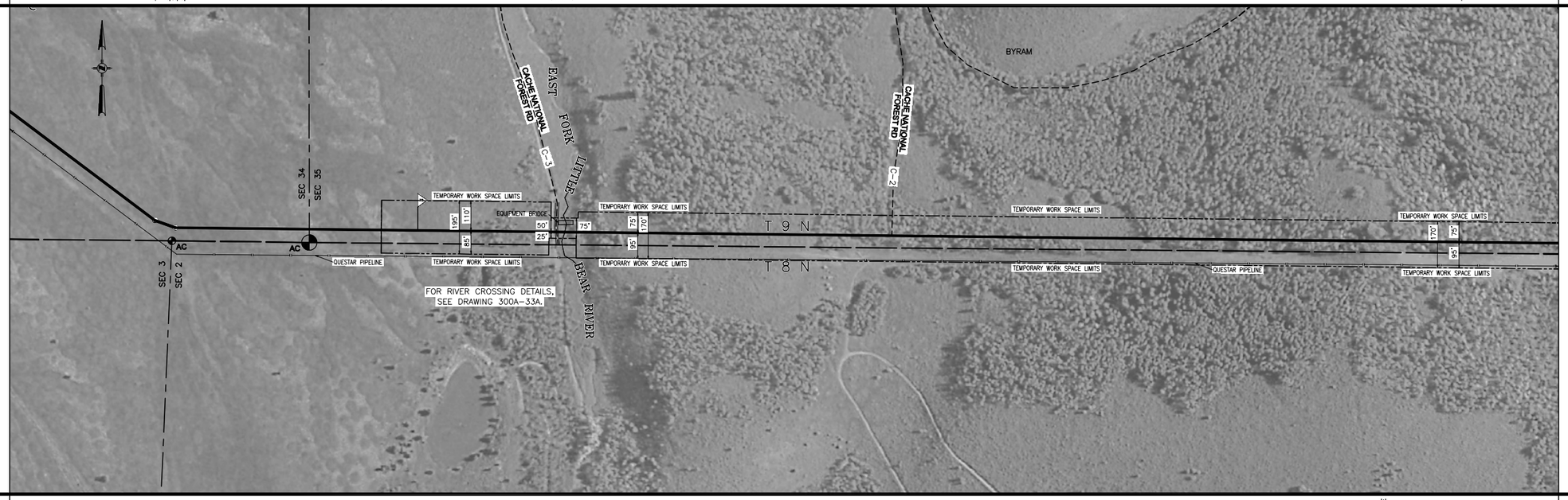
IMPLEMENTATION PLAN 05/24/2010

Jun 14, 2010 - 4:32PM

PIPELINE STATIONING

4128+12 P.I. ∠ 17°01'34" RT. & GAS PIPELINE 52.1'
4127+32 end ∠ 19°15'36" RT. & GAS PIPELINE 98.1'
STATION EQUATION 4+
4127+36 Bm= END REALIGNMENT
4122+36 SECTION LINE
4119+75 END 195'W/80A 115'W TEMP WORK SPACE
4118+40 MILEPOST 78
4113+49 END 75'W/80A 195'W TEMP WORK SPACE,
4113+49 ACCESS RD C-2
4112+99 E FORK LITTLE BEAR RIVER
4112+49 END VARIABLE/80A 75'W TEMP WORK SPACE,
4101+05 ACCESS RD C-2
4009+93 TEST LEAD TYPE 1
4009+50 ACCESS RD C-1
4004+67 P.I. ∠ 26°49'47" RT. & GAS PIPELINE 77.1'
4000+00 MATCHLINE

ALIGNMENT




PIPELINE STATIONING

4071+21 ACCESS RD C-1F
4069+91 SECTION LINE
4065+61 MILEPOST 77
4064+26 P.I. ∠ 19°34'50" LT.
4063+03 TOWNSHIP LINE
4062+01 P.I. ∠ 16°32'55" LT.
4057+93 ACCESS RD C-1D
4048+88 P.I. ∠ 84°31'1" RT.
4048+66 P.I. ∠ 18°17'1" RT.
4048+19 P.I. ∠ 4°06'48" RT.
4043+78 P.I. ∠ 10°39'28" RT.
4038+01 PROPERTY LINE
4032+63 P.I. ∠ 20°00'28" LT.
4031+53 P.I. ∠ 9°23'58" LT.
4030+88 P.I. ∠ 16°53'16" LT.
4030+01 P.I. ∠ 16°54'57" RT. END/80A REALIGNMENT
4029+05 END 195'W/80A VARIABLE TEMP WORK SPACE
4027+27 P.I. ∠ 7°27'0" LT.
4024+94 END 115'W/80A 195'W TEMP WORK SPACE

ALIGNMENT

## REFERENCE DRAWINGS

300A-33 ALIGNMENT SHEET
300A-33A EAST FORK LITTLE BEAR RIVER CROSSING

## GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.

## SITE SPECIFIC NOTES

**DESIGN DATA**

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

## SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"= 200' HORIZONTAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|---|---|---|---|---|---|
| A | 3/18/10 | JDK | IMPLEMENTATION FILING | 128575 | JJJ |

REVISIONS

RUBY PIPELINE LLC

CONSTRUCTION RIGHT OF WAY PLAN
RUBY PIPELINE LN 300A-42 INCH
CROSSING MULTIPLE LAND OWNERS IN
SECTION 1,T8N; SECTIONS 36&35,T9N

| | | | |
|---|---|---|---|
| Division: ROCKY MOUNTAIN | | Op. Area: ELKO | |
| State: UTAH | | Co./Par.: CACHE | |
| Section: 1,36,35 | Township: 8&9N | Range: 3E | |
| Drafter: jdk | Date: 07/29/09 | Project ID: 128575 | Type: C3D |
| Chk'd: | Date: | Scale: AS SHOWN | |
| Appr: | Date: | Filename: 0300-A-0033B | |

300A-33B

Sheet: 1 of 1 Rev. 0

IMPLEMENTATION PLAN 05/24/2010

Jun 15, 2010 - 11:13AM