

GENERAL NOTES

- ALL COMPONENTS OF THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED IN THE DRAWINGS OR NOT. ANY ITEMS NOT SPECIFICALLY DISCUSSED IN NOTES ON SHEETS IN THE PLANS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS.
- STATIONING, DISTANCES, AND LENGTHS SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS ALONG THE PIPE INVERT CENTERLINE. CROSS SECTIONS, CROSSING DETAILS, AND REFERENCES TO LEFT (L) AND RIGHT (R) ON THE DRAWINGS ASSUME LOOKING IN THE DIRECTION OF INCREASING STATION ALONG PIPE INVERT CENTERLINE ALIGNMENT (FACING DOWNSTREAM).
- ALL DIMENSIONS, INCLUDING, BUT NOT LIMITED TO, ELEVATIONS, STATIONS, AND DISTANCES ARE IN STANDARD ENGLISH UNITS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS; OR ANY INCONSISTENCIES OR AMBIGUITIES BETWEEN THE DRAWINGS AND OTHER COMPONENTS OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED IN WRITING TO THE ENGINEER. THE ENGINEER WILL PROMPTLY CORRECT INCONSISTENCIES OR AMBIGUITIES IN WRITING. WORK DONE BY THE CONTRACTOR INVOLVING SUCH DISCREPANCIES WITHOUT A WRITTEN REPORT AND RESPONSE FROM THE ENGINEER SHALL BE DONE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY EXISTING SURVEY MONUMENTS OR BENCHMARKS. ANY BENCHMARKS DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE REPLACED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR IS ADVISED THAT NORTH ARROWS AND ORIENTATION OF PLAN VIEW SHEETS VARY TO ALLOW FOR LEFT-TO-RIGHT STATIONING AND STATIONING IN THE DIRECTION OF PIPE FLOW.
- CONTRACTOR SHALL ENSURE THAT OPERATION OF EXISTING SEWER, DRAINAGE, DOMESTIC WATER, AND OTHER UTILITY SYSTEMS ARE CONTINUOUS DURING CONSTRUCTION.
- IF APPLICABLE, CONSTRUCTION EASEMENTS SHALL NOT BE USED IN ANY MANNER THAT WILL CAUSE PERMANENT DAMAGE TO THE PROPERTY. DESCRIPTIONS OF THE EASEMENTS ACQUIRED FOR THE WORK WILL BE ON FILE AT THE OFFICE OF THE OWNER. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE EASEMENT AGREEMENTS.
- CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS AND ANY TEMPORARY CONSTRUCTION OR PERMANENT EASEMENTS OBTAINED FOR THIS PROJECT, IF APPLICABLE. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF EXCAVATION, STOCKPILED EXCAVATED AND IMPORTED MATERIAL, BACKFILL MATERIAL, PIPE MATERIAL, AND PIPE APPURTENANCE MATERIAL. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS FROM INDIVIDUAL PROPERTY OWNERS AND BEAR ALL ASSOCIATED COSTS.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR SPECIFICATIONS, ALL EXISTING ITEMS INCLUDING, BUT NOT LIMITED TO, STRUCTURES, IMPROVEMENTS, GROUNDWATER WELLS, SIGNS, FENCES, GATES, CURBS, PAVEMENT, BRIDGES, UTILITIES, ON FARM IRRIGATION PIPELINES AND DITCHES, ETC. SHALL BE PROTECTED BY THE CONTRACTOR. IF SUCH ITEMS ARE DAMAGED OR MUST BE REMOVED OR MODIFIED TO FACILITATE CONSTRUCTION, CONTRACTOR SHALL FIRST NOTIFY THE OWNER AND THEN REPLACE THE ITEMS TO A LIKE OR BETTER CONDITION AT CONTRACTOR'S EXPENSE TO SATISFACTION OF OWNER OF FACILITIES.
- REQUIREMENTS RELATED TO THE PROTECTION AND/OR REMOVAL OF TREES, VEGETATION, AND STRUCTURES WITHIN THE WORK AREA ARE DETAILED IN THE SPECIFICATIONS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE TRENCH LIMITS NEEDED TO COMPLETE THE WORK IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL CODES GOVERNING SHORING, SHEETING, BRACING OF EXCAVATIONS AND TRENCHES, AND FOR PROTECTION AND SAFETY OF THE WORKERS AND OTHER CONSTRUCTION RELATED PERSONNEL.
- EXCAVATION SHALL MEET THE REQUIREMENTS OF OSHA 29 CFR PART 1926, SUBPART P, EXCAVATIONS. ACTUAL SLOPES SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPES (SUBPART P, APPENDIX B).
- HORIZONTAL DATUM IS NAD83/91. HORIZONTAL COORDINATES SHOWN HEREIN ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, US SURVEY FEET.
- VERTICAL DATUM IS NAVD 88, FEET.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE INDICATED.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING, IMPLEMENTING, ADHERING TO, AND MAINTAINING A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE REGULATIONS AND GUIDELINES SET FORTH AND SUBJECT TO APPROVAL BY THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, WATER QUALITY PROGRAM. CONTRACTOR SHALL IMPLEMENT AND DOCUMENT ANY ADDITIONAL MEASURES NECESSARY TO PREVENT ANY EROSION OR HAZARDOUS MATERIALS FROM LEAVING THE SITE, DISCHARGING, BEING ENTRAINED, ABSORBED OR OTHERWISE ENTERING SURFACE WATERS, GROUND WATER OR SOILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES AT ALL TIMES. MAINTENANCE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL.
- THE CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY NPDES OR OTHER APPLICABLE ENVIRONMENTAL PERMIT VIOLATIONS AND FINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED IN THE PLANS. CONTRACTOR SHALL ALSO USE ESTABLISHED CONTROL POINTS TO SET LINES AND GRADES FOR THE CONSTRUCTION OF THE PROJECT. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ELECTRONIC BASE MAP DATA SHALL BE PROVIDED TO CONTRACTOR BY THE ENGINEER FOR USE IN ESTABLISHING CONTROL FOR CONSTRUCTION SURVEY.
- THE CONTRACTOR SHALL MAINTAIN HAND DRAWN REDLINES, FIELD NOTES, AND PHOTOGRAPHS OF ALL IMPROVEMENTS AS THE WORK PROGRESSES. THE CONTRACTOR'S DOCUMENTATION SHALL BE MAINTAINED ON SITE AND SHALL BE AVAILABLE FOR REVIEW BY THE CONTRACTING OFFICER AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION TO THE CONTRACTING OFFICER FOR THE PREPARATION OF CERTIFIED RECORD DRAWINGS PRIOR TO PROJECT ACCEPTANCE.
- THIS DESIGN DOES NOT VALIDATE THE CONDITION OF ANY EXISTING OR USED PART OF THE PIPELINE/IRRIGATION SYSTEM INCLUDING ON FARM INFRASTRUCTURE OR LATERALS. FAILURE OF ANY EXISTING PART OF THE EXISTING IRRIGATION SYSTEM WILL BE REPAIRED AT THE INDIVIDUAL LANDOWNER OR MVID EXPENSE.
- THIS DESIGN IN NO WAY GUARANTEES A MINIMUM SUPPLY OF WATER TO THE PROPOSED PIPELINE. OPERATION OF THE DIVERSION STRUCTURE AND ON FARM IRRIGATION SYSTEMS WILL BE ADJUSTED ACCORDINGLY TO MATCH AVAILABLE WATER SUPPLY.

UTILITY NOTES

- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED. UTILITY LOCATION AND PROTECTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT TYPE, OWNER, LOCATION, AND ELEVATION OF ALL BURIED AND OVERHEAD UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN A SAFE MANNER AND IN ACCORDANCE WITH ANY REQUIREMENTS SET FORTH BY THE UTILITY OWNER AND APPLICABLE LAWS AND REGULATIONS.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS WITHIN THE LIMITS OF CONSTRUCTION A MINIMUM OF TWO WEEKS PRIOR TO EXCAVATION, OR OTHER CONSTRUCTION ACTIVITY THAT MAY IMPACT THE UTILITY. CONTRACTOR SHALL ALSO CONTACT THE CONTRACTING OFFICER PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE AREA. CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY OWNERS FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING THE COURSE OF THE WORK.
- RELOCATIONS AND/OR REPLACEMENTS OF EXISTING UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR WITH THE UTILITY OWNER. CONTRACTOR SHALL CONTACT, SCHEDULE, AND ESTABLISH UTILITY SHUT DOWN TIMES AND DETERMINE THE RELOCATION AND/OR REPLACEMENT REQUIREMENTS OF EXISTING UTILITIES PRIOR TO THE START OF ANY WORK. THE UTILITY SHALL BE RELOCATED OR REPLACED TO THE SATISFACTION OF THE UTILITY OWNER.
- ALL ABANDONED UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE VERIFIED BY THE CONTRACTING OFFICER AND THE UTILITY OWNER PRIOR TO DISTURBANCE OR MODIFICATION. ONLY AFTER WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE UTILITY OWNER BY THE CONTRACTING OFFICER, MAY THE CONTRACTOR TAKE ACTION.
- THE SIZE, LOCATION AND TYPE OF UNDERGROUND UTILITIES EXPOSED OR MODIFIED BY THE CONTRACTOR SHALL BE ACCURATELY NOTED AND PLACED ON THE CONTRACTOR'S AS-BUILT DRAWINGS.

PROJECT DESCRIPTION

The scope of the project entails installing approximately 23,600 LF of pipeline in the existing MVID East Canal, modifying an existing spill to become a screen/pipe intake structure, connecting to existing laterals, and to allow for connecting to individual on-farm irrigation turnouts.

PIPELINE HYDRAULICS INFORMATION

The pipeline is sized to deliver approximately 9 gpm/acre resulting in a maximum flow rate of 13 cfs at the beginning of the pipeline. The pipeline tapers down in size as individual turnouts and laterals are served.

WaterCad was run for static conditions. The maximum static pressure is approximately 30 psi at the end of the pipeline.

All pipe velocities are designed at or below 5 ft/s.

ABBREVIATIONS

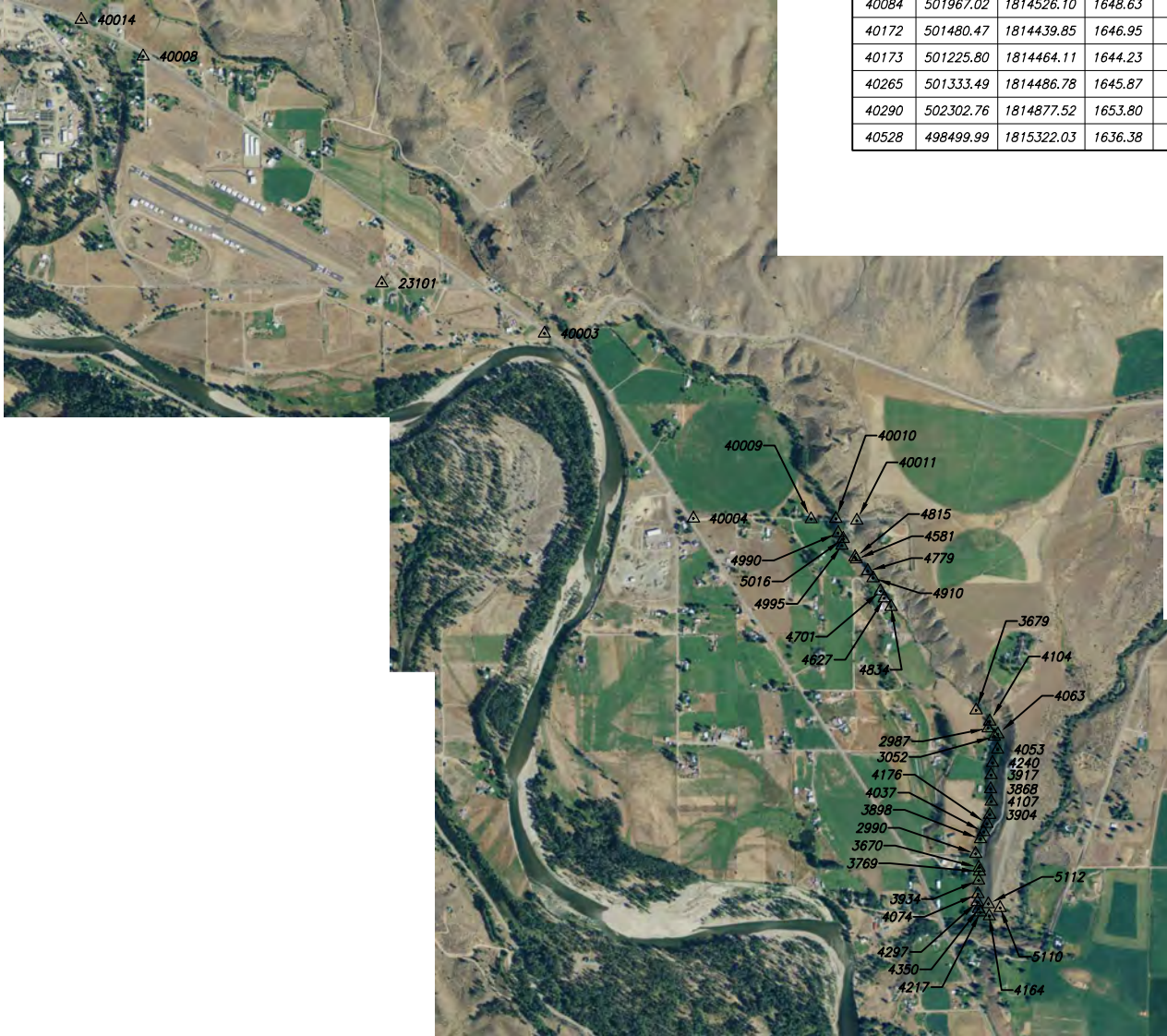
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|--------|--|
| AASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY SAFETY OFFICIALS |
| APPROX | APPROXIMATE |
| ASTM | AMERICAN SOCIETY OF TESTING & MATERIALS |
| BM | BENCHMARK |
| CL | CENTERLINE |
| CDF | CONTROLLED DENSITY FILL |
| CMP | CORRUGATED METAL PIPE |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CP | CONTROL POINT |
| CSBC | CRUSHED SURFACING BASE COURSE |
| CSTC | CRUSHED SURFACING TOP COURSE |
| CY | CUBIC YARD |
| E | EAST |
| EA | EACH |
| EF | EACH FACE |
| EL | ELEVATION |
| EXST | EXISTING |
| G | GRADE |
| GPM | GALLONS PER MINUTE |
| H | HORIZONTAL |
| L | LENGTH |
| LF | LINEAR FOOT |
| LS | LUMP SUM |
| MAX | MAXIMUM |
| MVID | METHOW VALLEY IRRIGATION DISTRICT |
| MIN | MINIMUM |
| N | NORTH |
| NO. | NUMBER |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OG | ORDINARY GROUND |
| OHW | ORDINARY HIGH WATER |
| PIP | Plastic Irrigation Pipe |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT |
| Q | FLOW |
| ROW | RIGHT-OF-WAY |
| S | SOUTH |
| SF | SQUARE FOOT |
| SPEC | SPECIFICATION |
| SST | STAINLESS STEEL |
| STA | STATION |
| SY | SQUARE YARD |
| T & B | TOP & BOTTOM |
| TU | TU |
| TYP | TYPICAL |
| W | WEST |
| WSDOT | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION |
| WSE | WATER SURFACE ELEVATION |

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| 2 | 1678-100-XXXX | General Notes and Sheet Index |
| 3 | 1678-100-XXXX | Control Points |
| 4 | 1678-100-XXXX | Site Overview |
| 5 | 1678-100-XXXX | Plan and Profile 1 |
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| 11 | 1678-100-XXXX | Plan and Profile 7 |
| 12 | 1678-100-XXXX | Plan and Profile 8 |
| 13 | 1678-100-XXXX | Plan and Profile 9 |
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| 19 | 1678-100-XXXX | Plan and Profile 15 |
| 20 | 1678-100-XXXX | Intake Structure Layout |
| 21 | 1678-100-XXXX | Intake Structure Details |
| 22 | 1678-100-XXXX | End of Pipeline - Plan and Profile |
| 23 | 1678-100-XXXX | End of Pipeline - Sections |
| 24 | 1678-100-XXXX | Pipe Specifications and Trench Details |
| 25 | 1678-100-XXXX | Pipe Crossing Details |
| 26 | 1678-100-XXXX | Turnout and Lateral Connection Details |
| 27 | 1678-100-XXXX | Air Valve and Thrust Block Details |

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 COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM
 FISH HABITAT IMPROVEMENT PROJECT
METHOW SUBBASIN
 MVID - INSTREAM FLOW IMPROVEMENT PROJECT
 GENERAL NOTES AND SHEET INDEX

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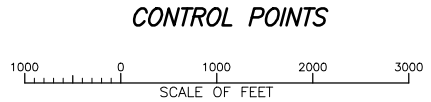
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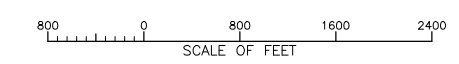
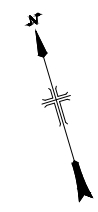
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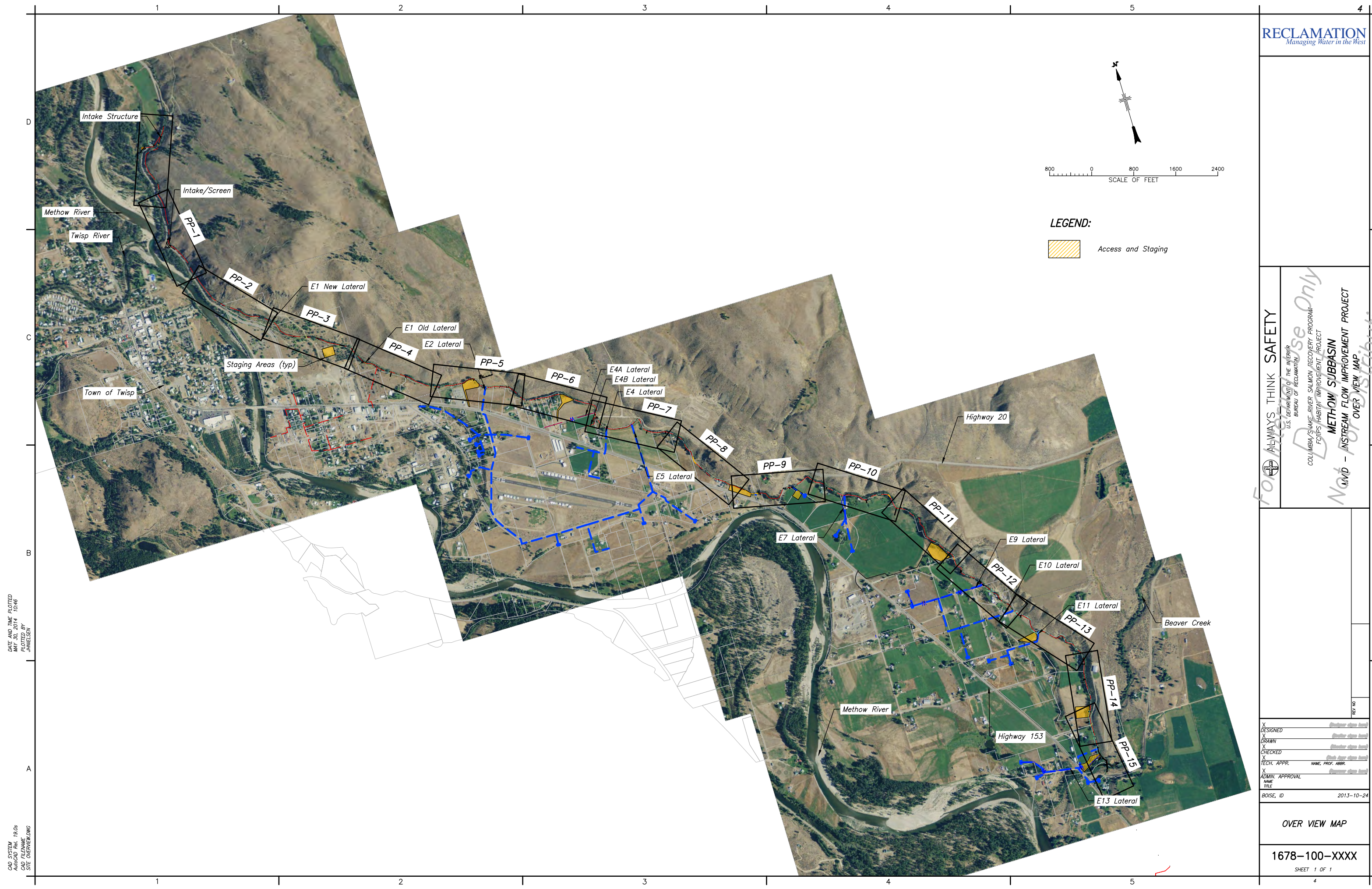
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 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST MAIN PIPELINE
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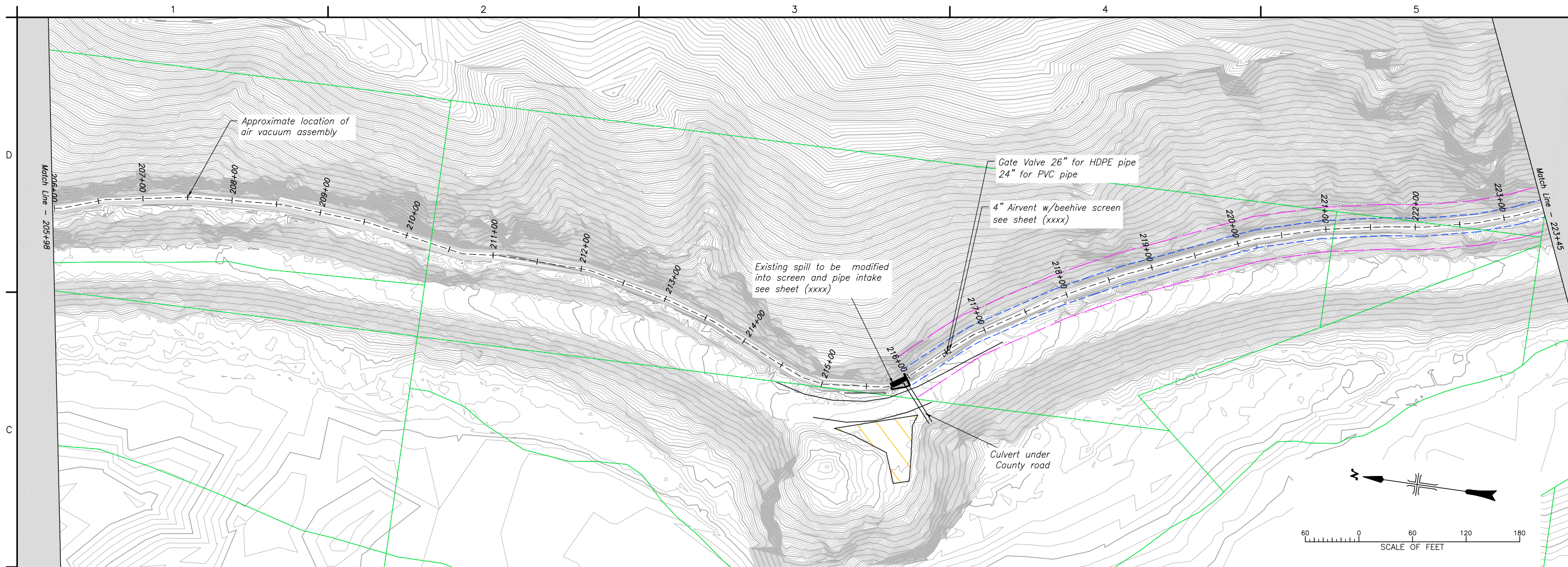
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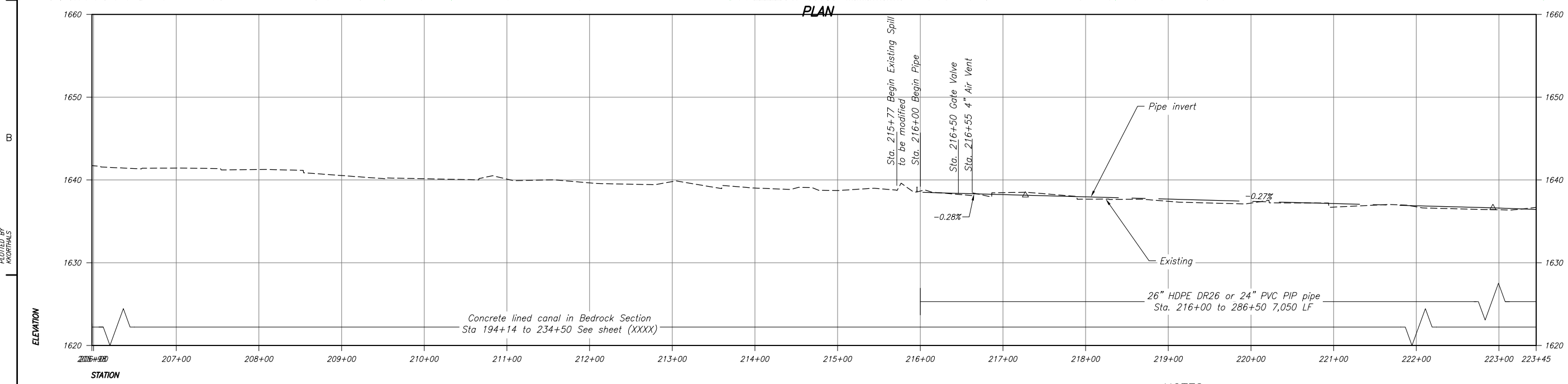
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OVER VIEW MAP

1678-100-XXXX
 SHEET 1 OF 1



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
2. The contractor shall furnish additional fittings or bend the pipe per the manufacturer's recommendations to match the alignments and grades shown.
3. The contractor's attention is called to the steep hill slopes surrounding the existing canal. In many locations the centerline of the canal will be the optimum location for the pipe horizontal alignment. Native backfill may not exist in locations of the canal and fill will need to be imported.

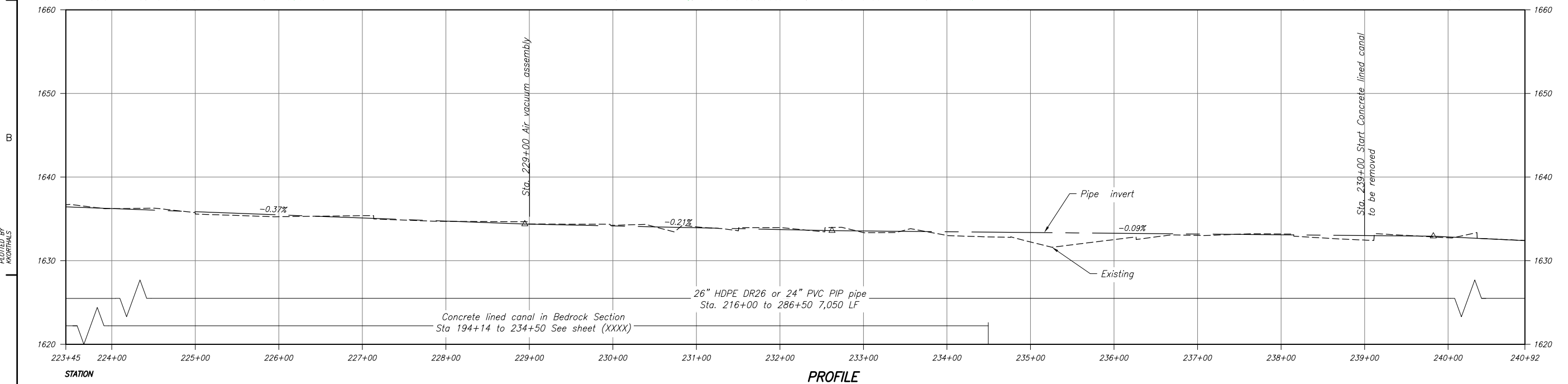
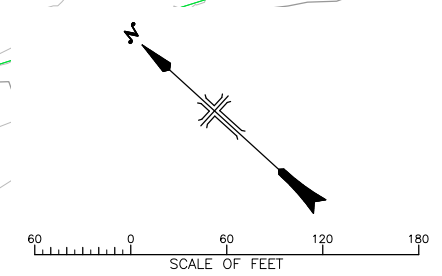
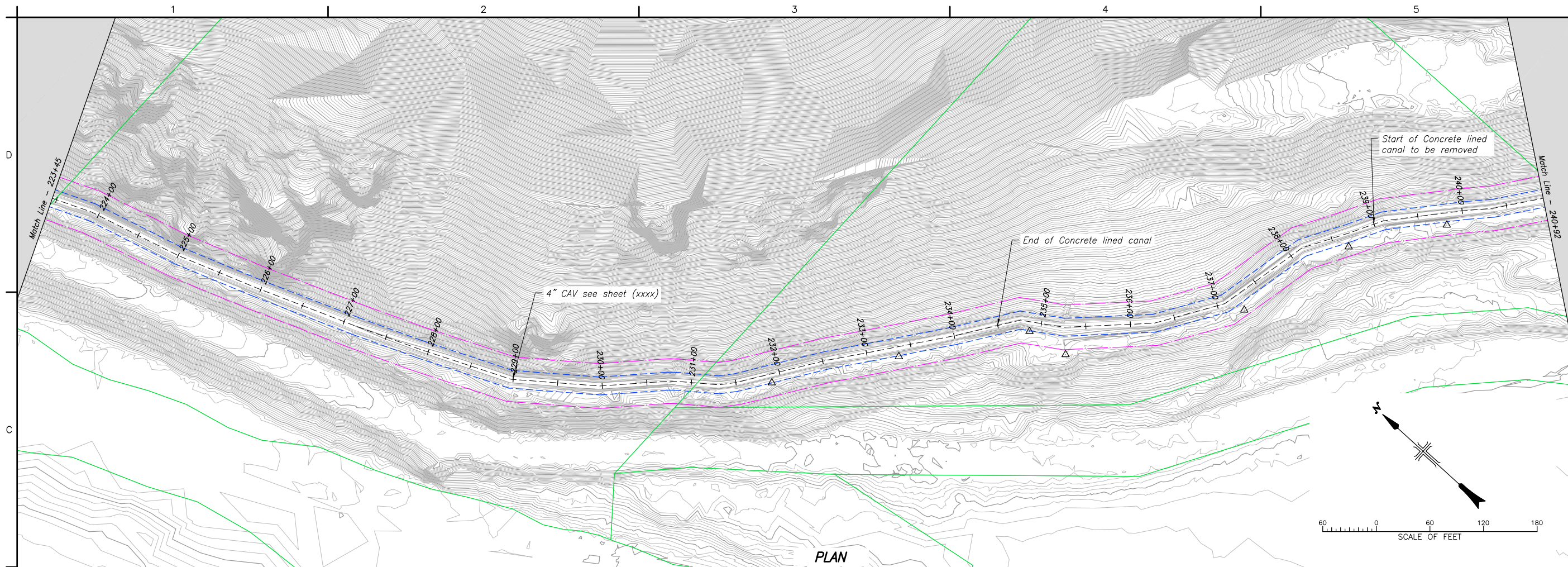
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 FOCUS HABITAT IMPROVEMENT PROJECT
 METHOW SUBBASIN
 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

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| TECH. APPR. | NAME, PROF. ABBR. |
| ADMIN. APPROVAL | |
| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 205+98 TO 223+45



- LEGEND**
- Pipeline Corridor
 - Clearing Limits
 - Property Boundaries
 - Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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3. The contractor's attention is called to the steep hill slopes surrounding the existing canal. In many locations the centerline of the canal will be the optimum location for the pipe horizontal alignment. Native backfill may not exist in locations of the canal and fill will need to be imported.

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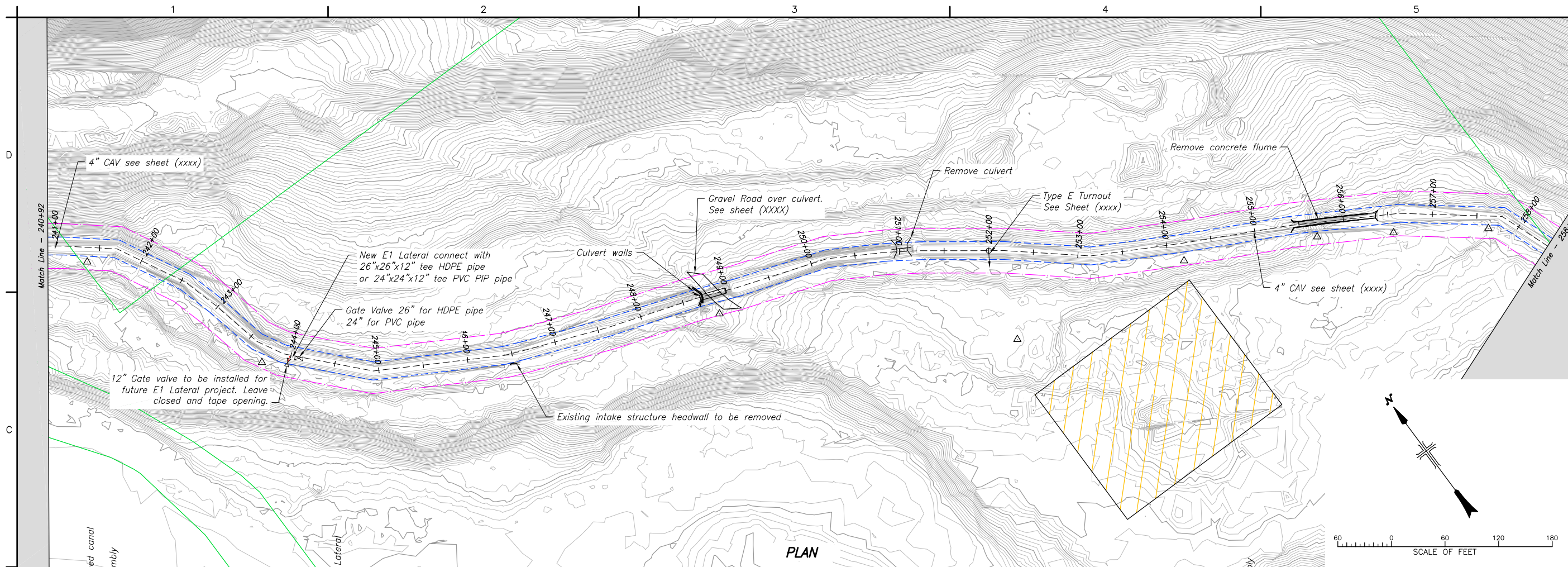
CAD SYSTEM
AutoCAD 2011
CAD FILENAME
PLANPROFILE AND PIPE NETWORK_PVCORPREDWG

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 BUREAU OF RECLAMATION
 COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM
 FISH HABITAT IMPROVEMENT PROGRAM
METHOW SUBBASIN
 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 NOT FOR DISTRIBUTION

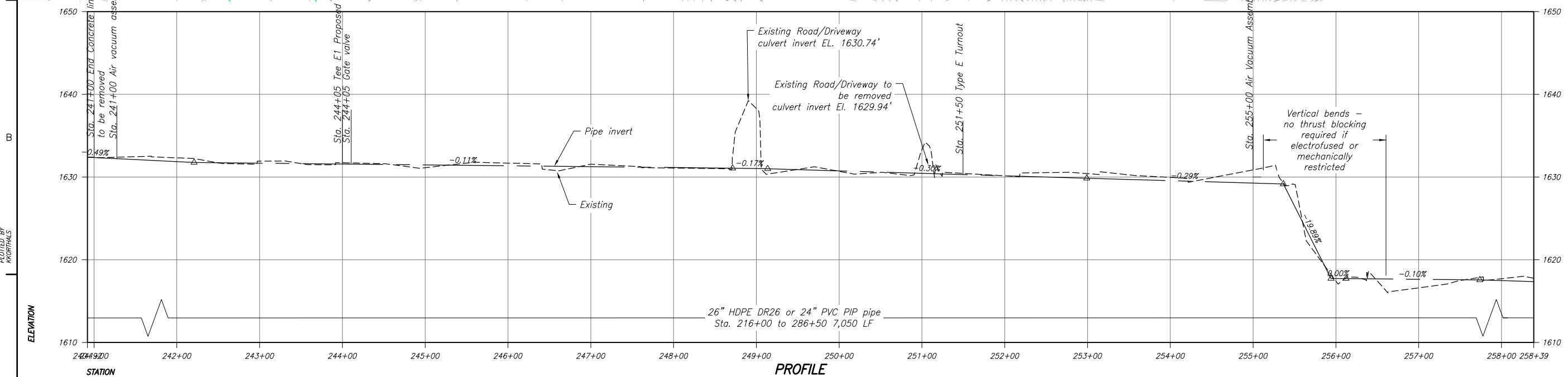
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| NAME | |
| TITLE | |
| BOISE, ID | 2013-09-30 |

**MAIN PLAN AND PROFILE
STA. 223+45 TO 240+92**

1678-100-XXXX
SHEET 1 OF 1



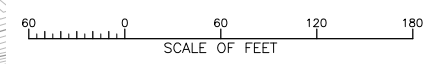
PLAN



PROFILE

- LEGEND**
- Pipeline Corridor
 - Clearing Limits
 - Property Boundaries
 - ▨ Staging Area

- NOTES:**
- The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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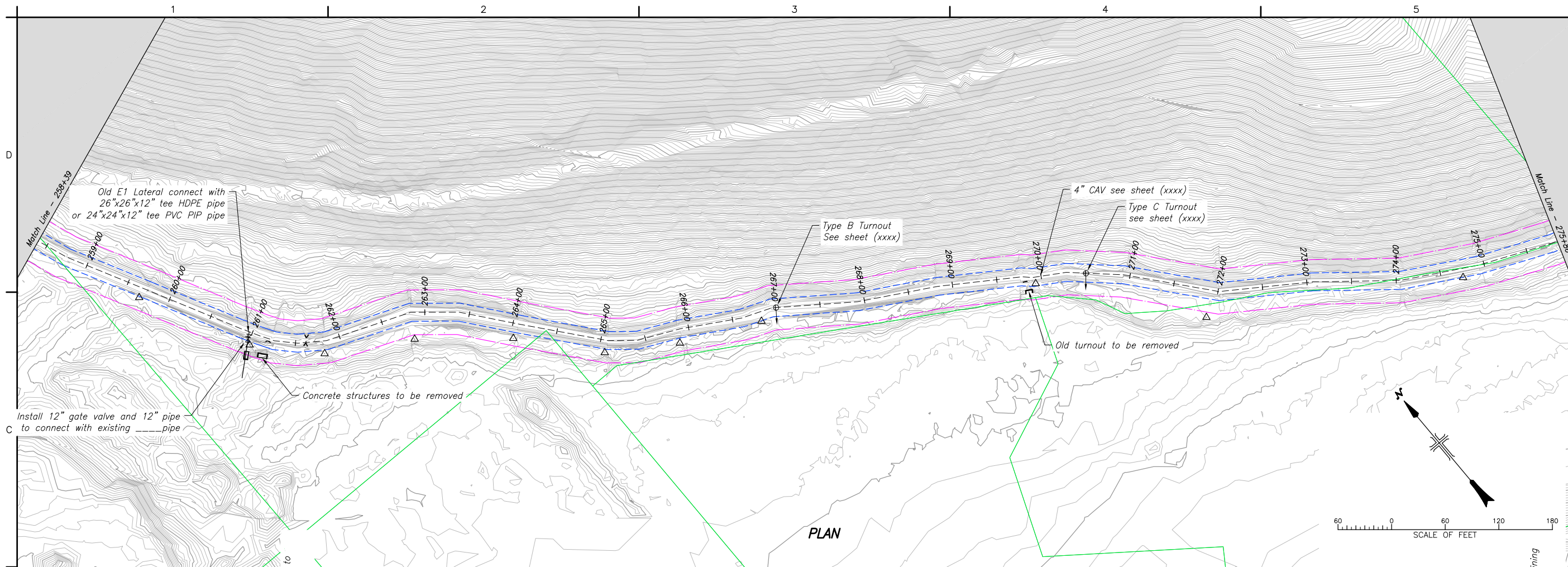
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CAD SYSTEM
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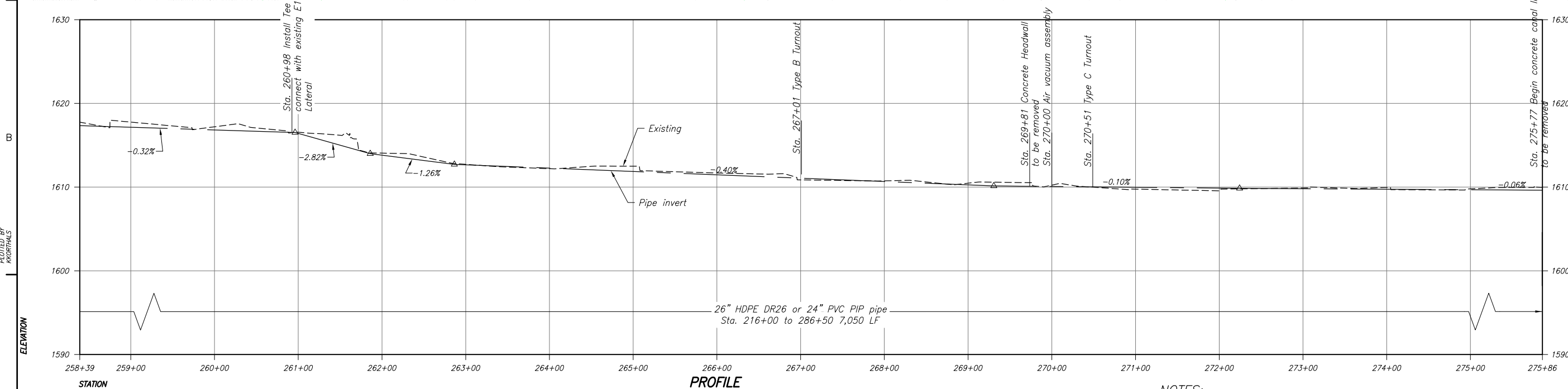
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 COLUMBIA/SNAKE SALMON RECOVERY PROGRAM
 FISH HABITAT IMPROVEMENT PROGRAM
 METHOW SUBBASIN
 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

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| ADMIN. APPROVAL | |
| DATE | TITLE |
| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 240+92 TO 258+39



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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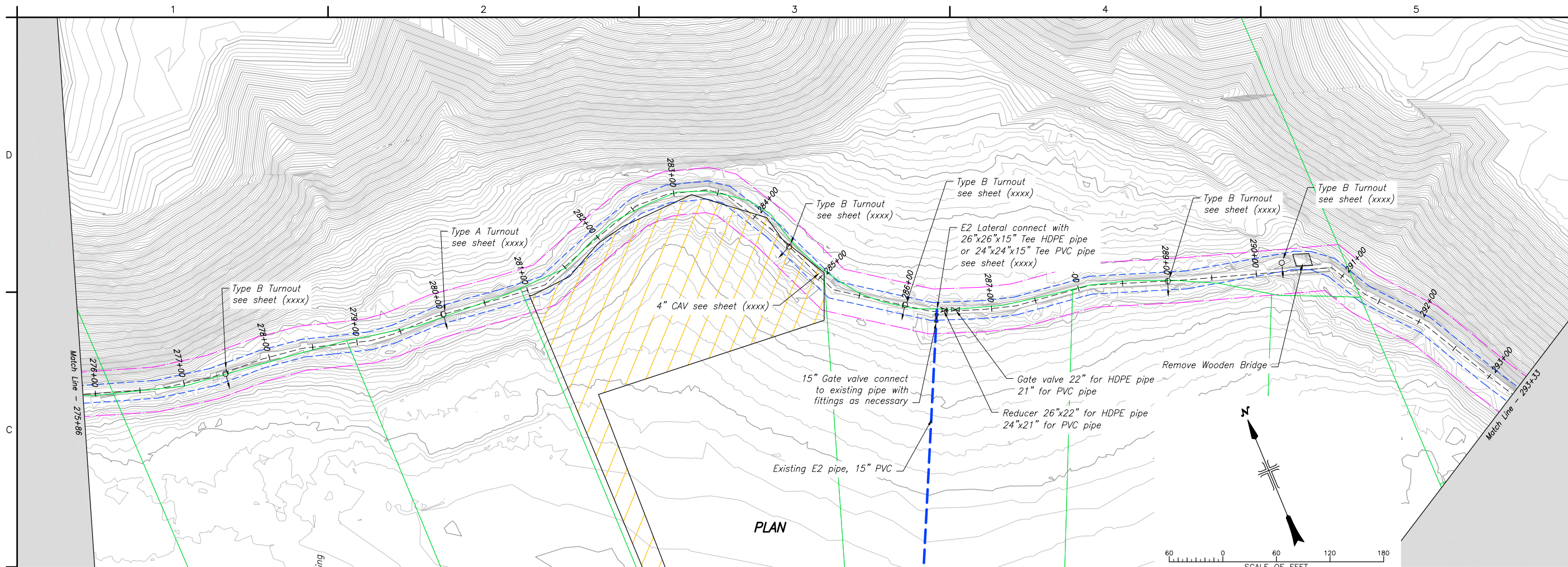
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 COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM
 FOCUS HABITAT IMPROVEMENT PROJECT
METHOW SUBBASIN
 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 NOT FOR DISTRIBUTION

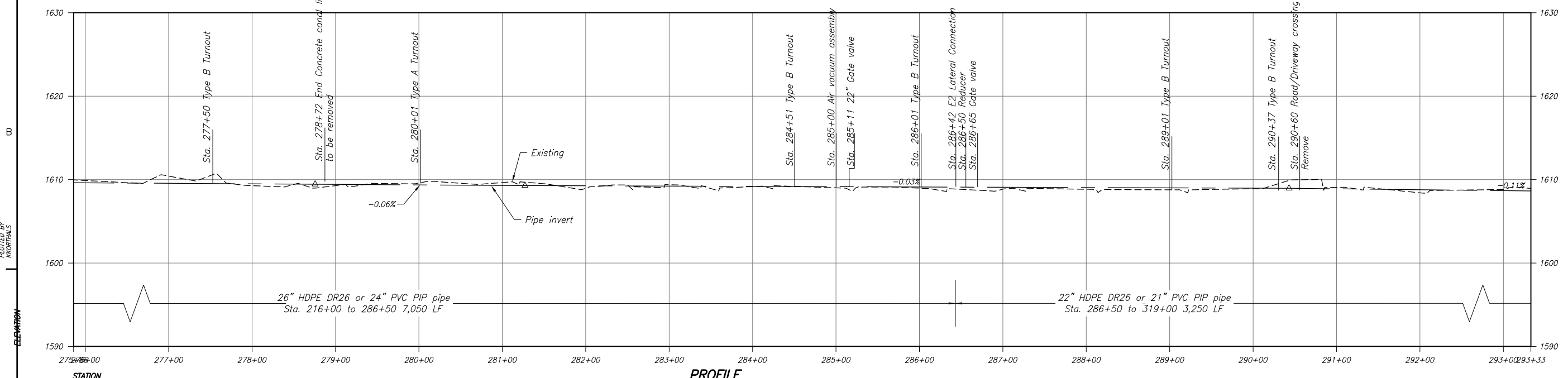
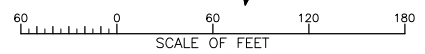
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| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 258+39 TO 275+86

1678-100-XXXX
SHEET 1 OF 1



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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ELEVATION

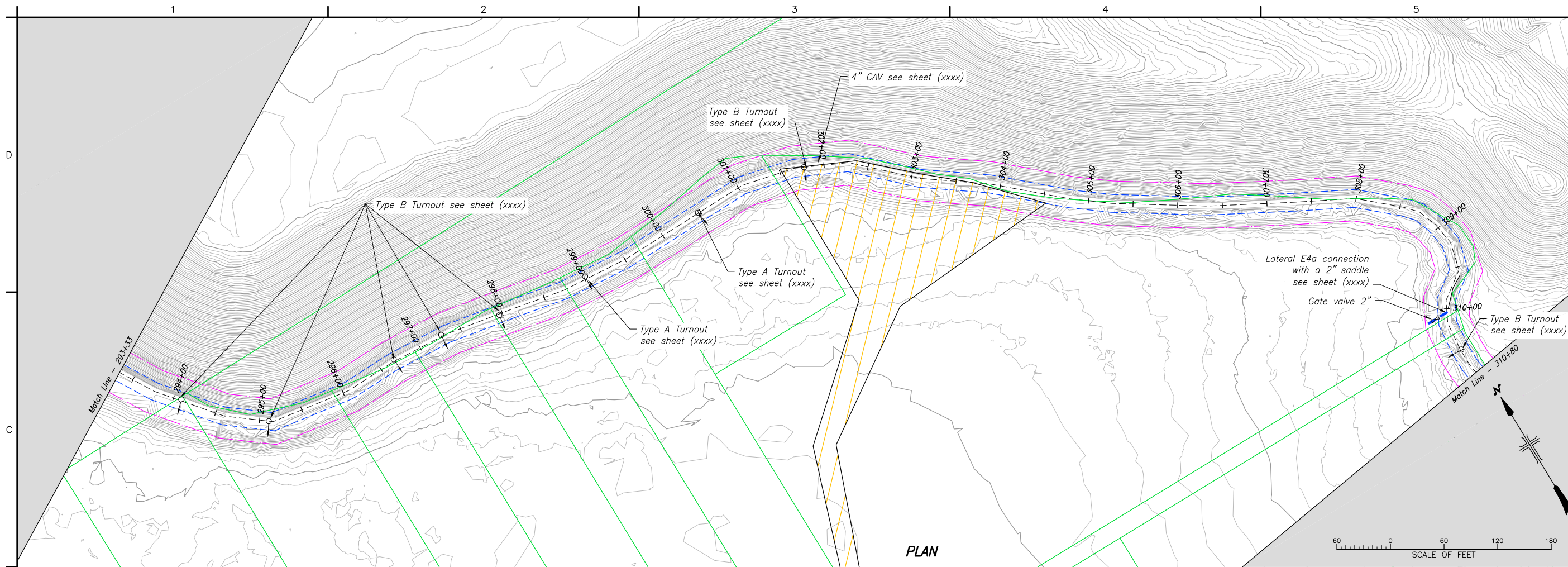
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ALWAYS THINK SAFETY
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 BUREAU OF RECLAMATION
 COLLUMBIAS LAKE RIVER SALMON RECOVERY PROGRAM
 FOCUS HABITAT IMPROVEMENT PROJECT
 METHOW SUBBASIN
 INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

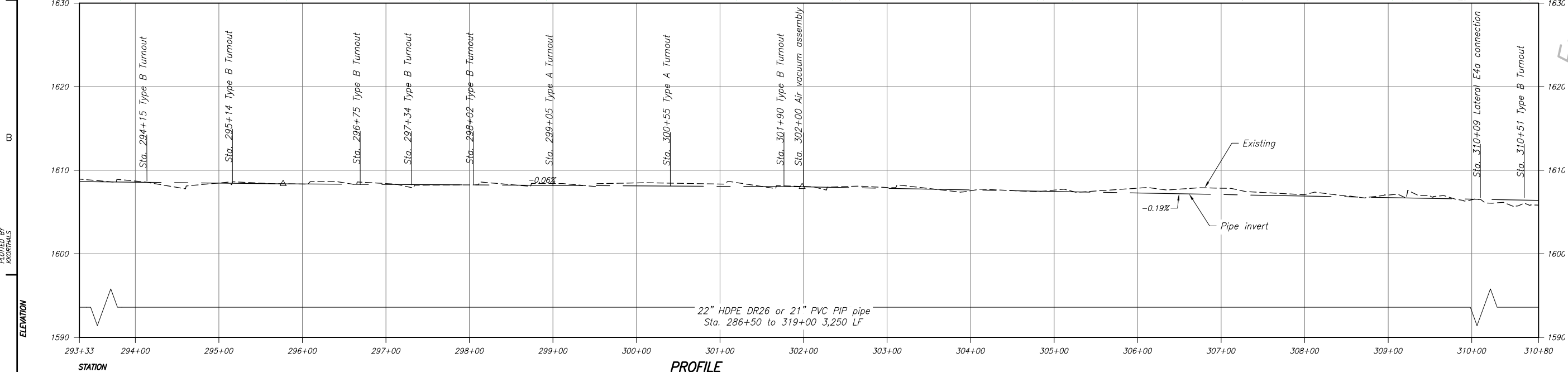
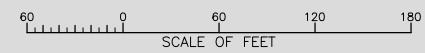
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| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 275+86 TO 293+33

1678-100-XXXX
SHEET 1 OF 1



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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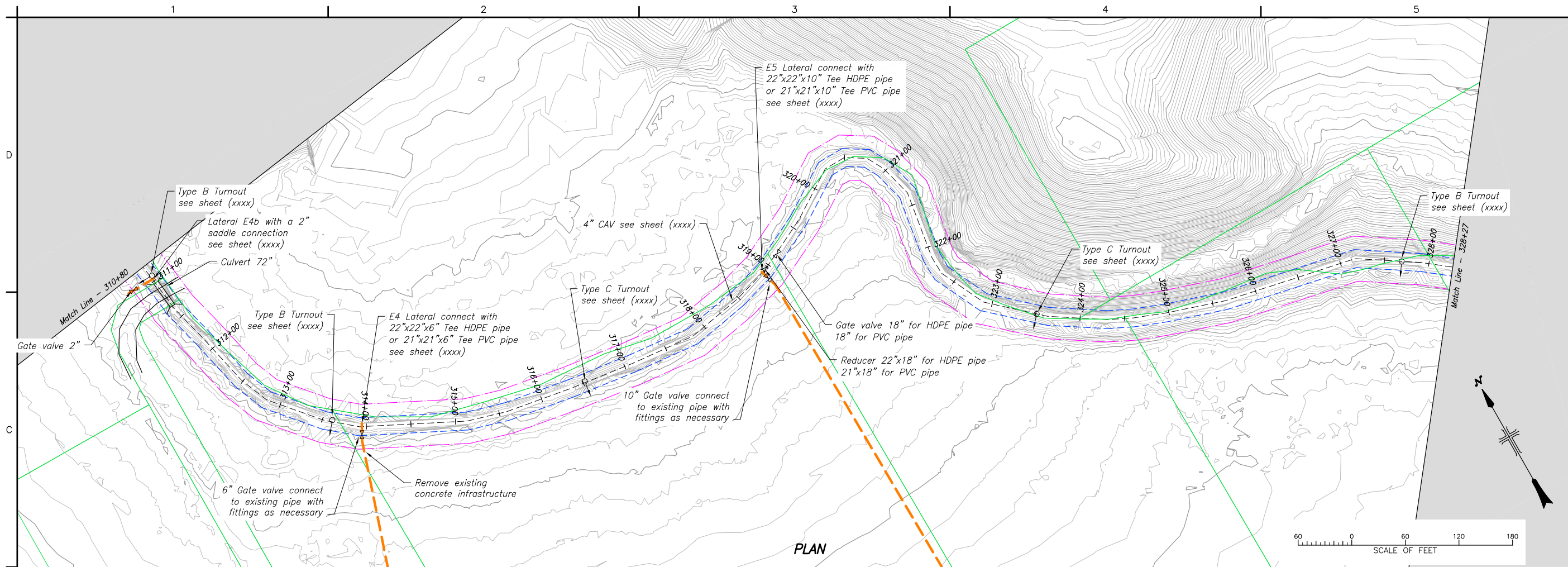
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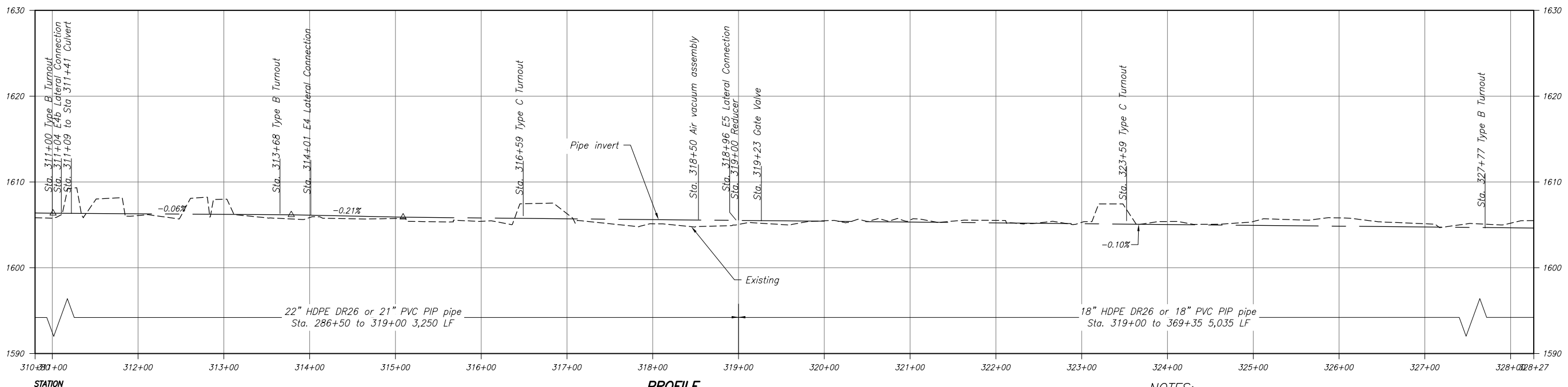
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 BUREAU OF RECLAMATION
 COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM
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| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 293+33 TO 310+80



PLAN



PROFILE

- LEGEND**
- Pipeline Corridor
 - Clearing Limits
 - Property Boundaries
 - Staging Area

NOTES:

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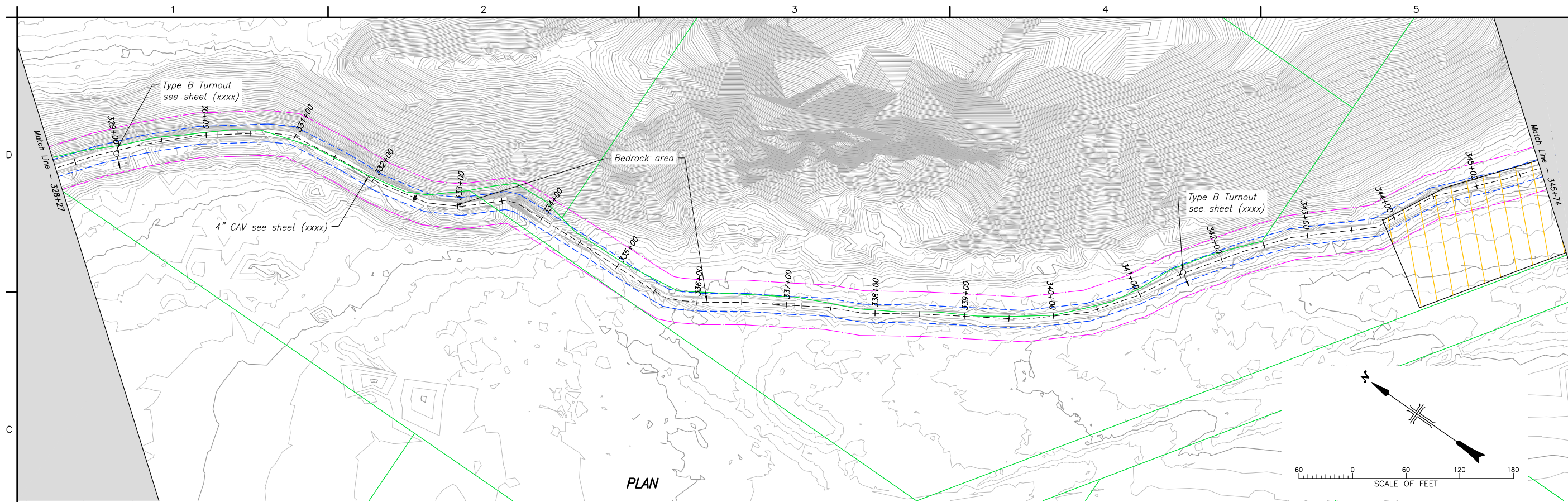
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 FOCUS HABITAT IMPROVEMENT PROJECT
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 EAST CANAL
 NOT FOR DISTRIBUTION

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**MAIN PLAN AND PROFILE
STA. 310+80 TO 328+27**

1678-100-XXXX
SHEET 1 OF 1



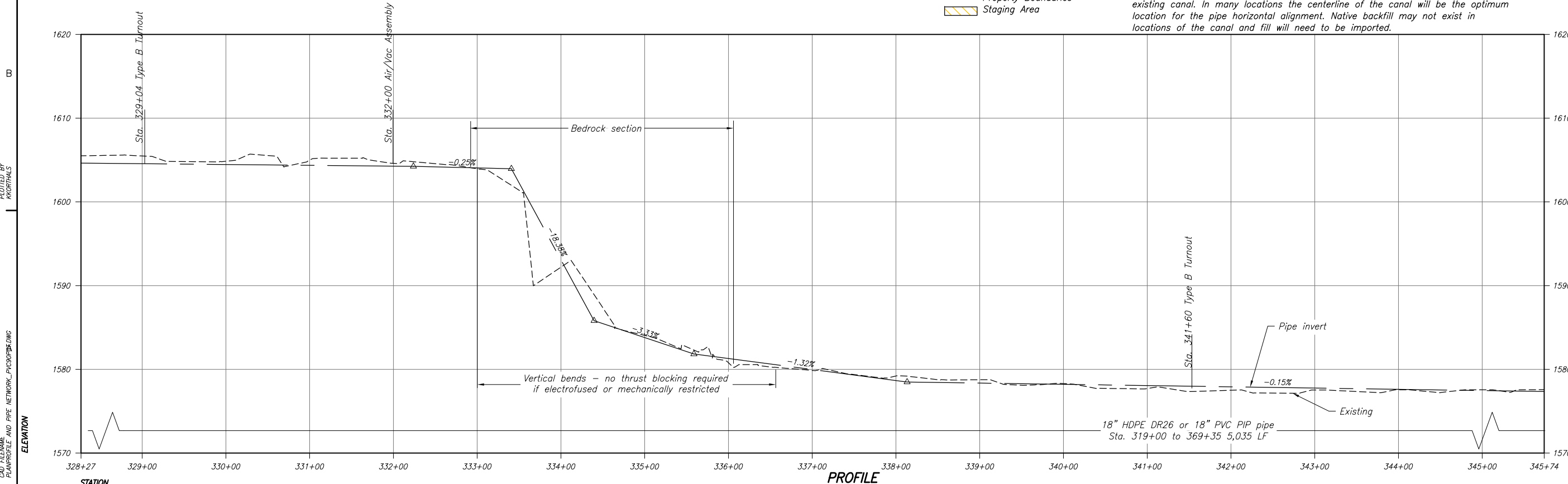
PLAN

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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PROFILE

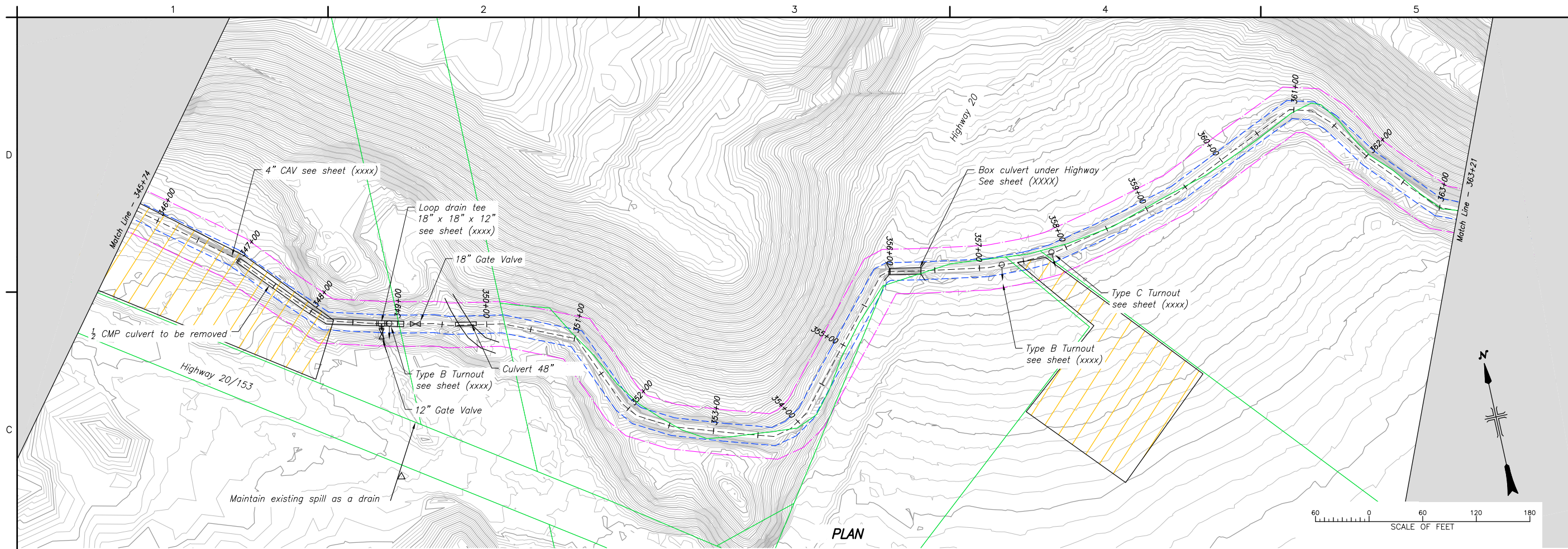
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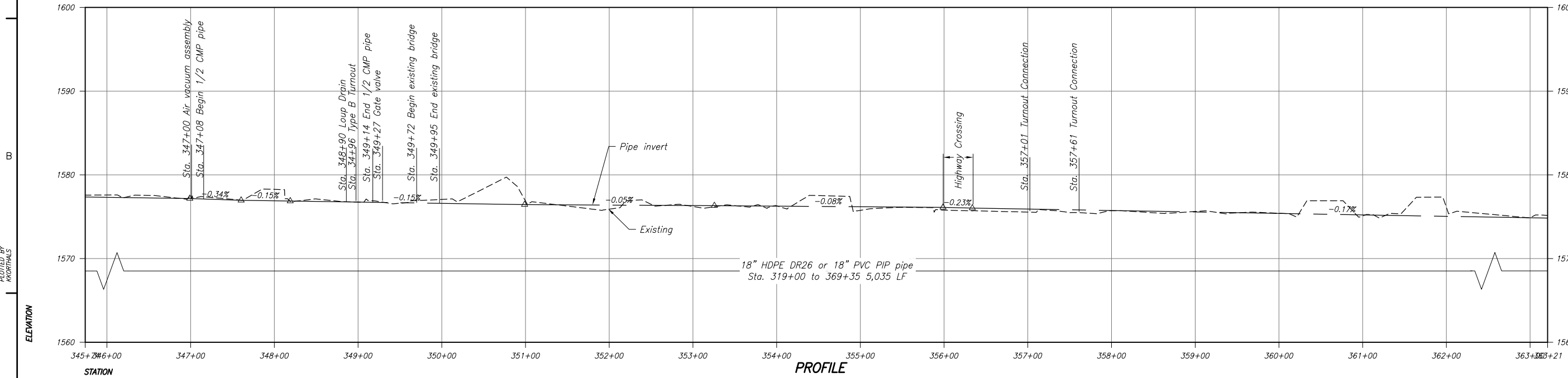
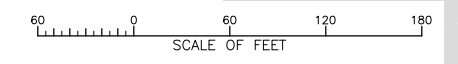
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 FOCUS HABITAT IMPROVEMENT PROJECT
METHOW SUBBASIN
 MID - INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

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MAIN PLAN AND PROFILE
STA. 328+27 TO 345+74



PLAN



PROFILE

- LEGEND**
- Pipeline Corridor
 - Clearing Limits
 - Property Boundaries
 - Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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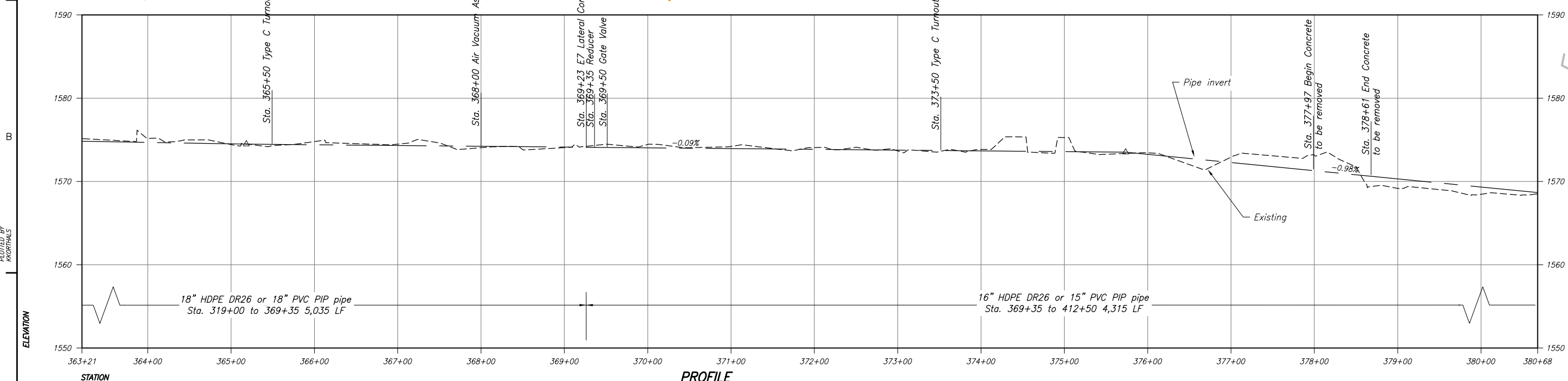
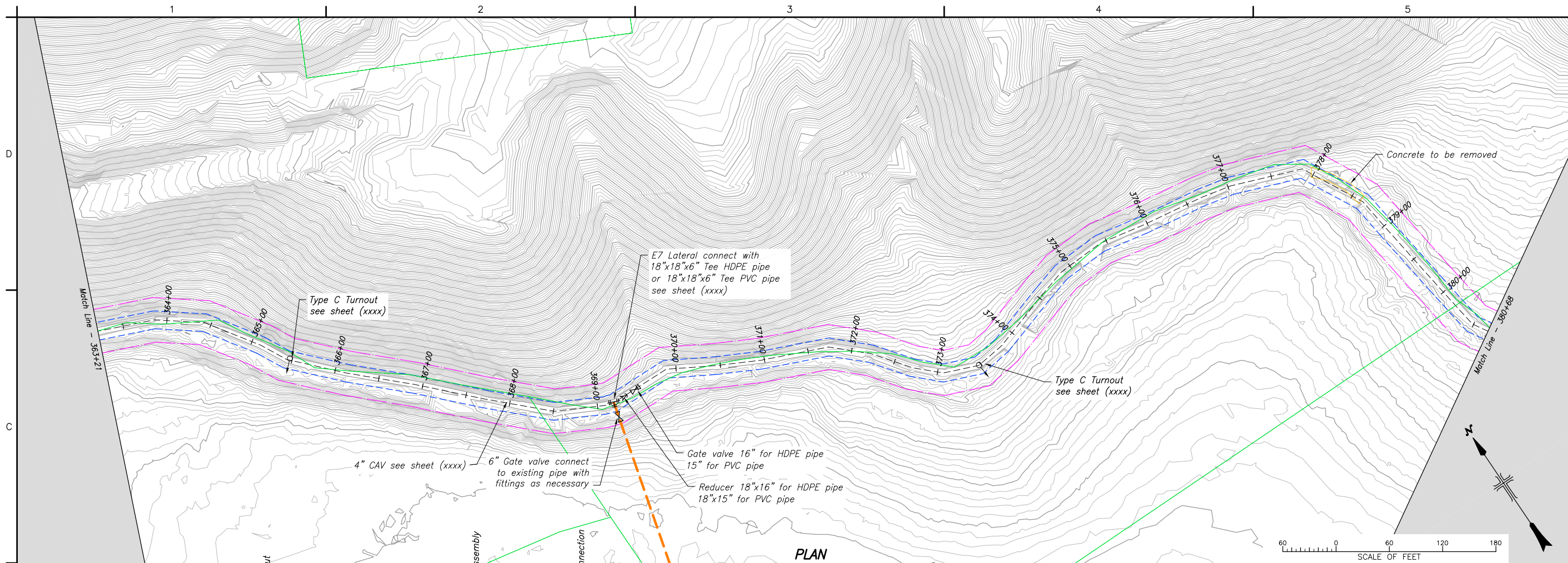
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 FOCUS HABITAT IMPROVEMENT PROJECT
METHOW SUBBASIN
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| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 345+74 TO 363+21

1678-100-XXXX
SHEET 1 OF 1



- LEGEND**
- Pipeline Corridor
 - Clearing Limits
 - Property Boundaries
 - ▨ Staging Area

- NOTES:**
- The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
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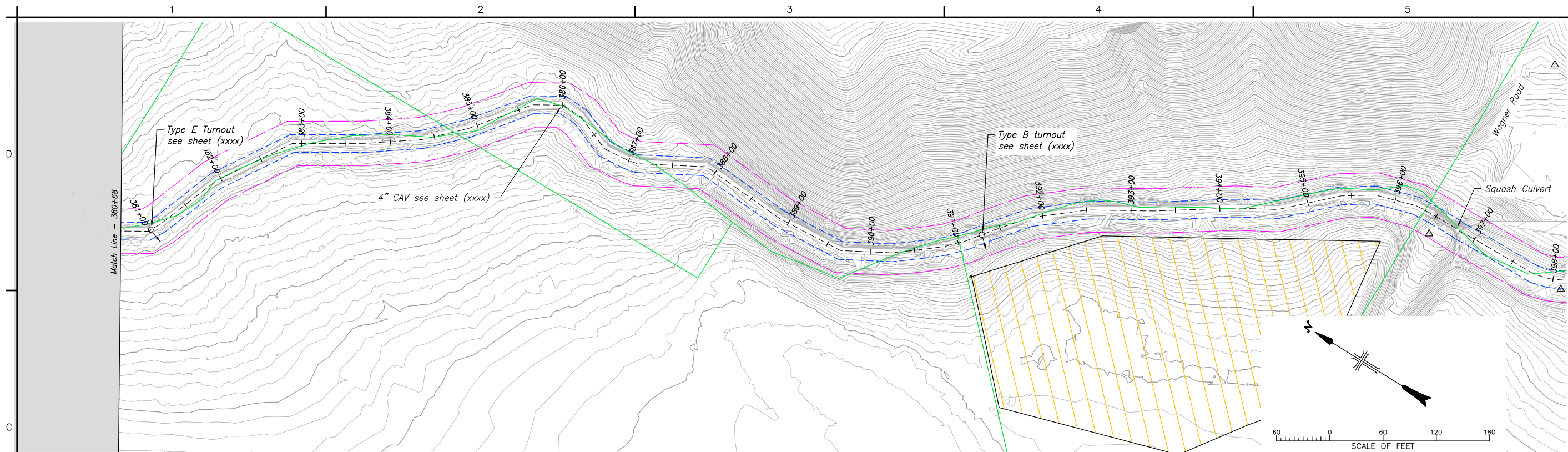
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 COLUMBIA/RIMBA RIVER SALMON-RECOVERY PROGRAM
 FOCUS HABITAT IMPROVEMENT PROJECT
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 EAST CANAL
 Not for Distribution

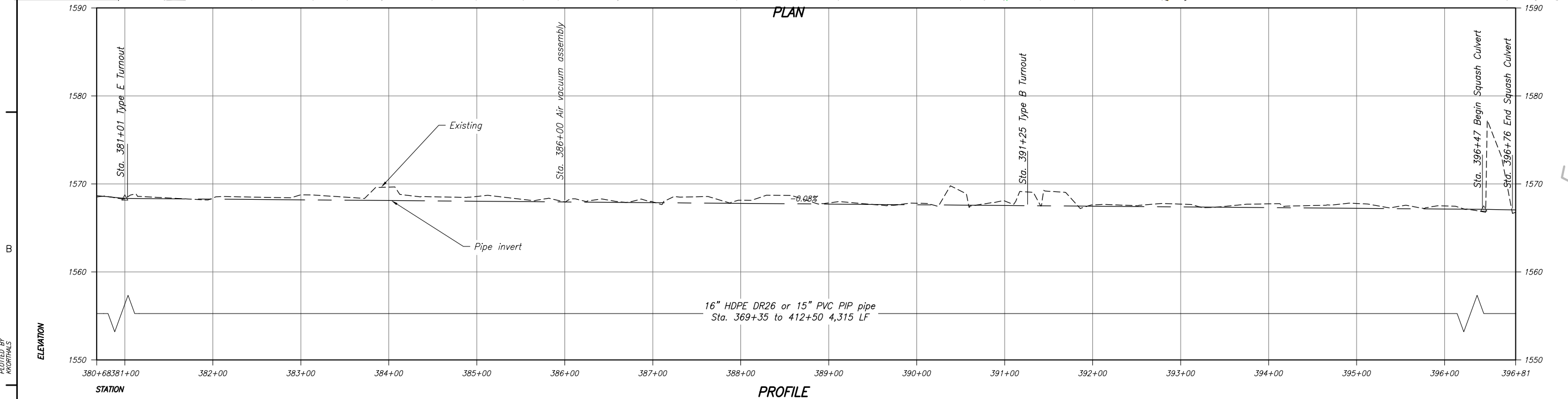
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MAIN PLAN AND PROFILE
STA. 363+21 TO 380+68

1678-100-XXXX
SHEET 1 OF 1



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

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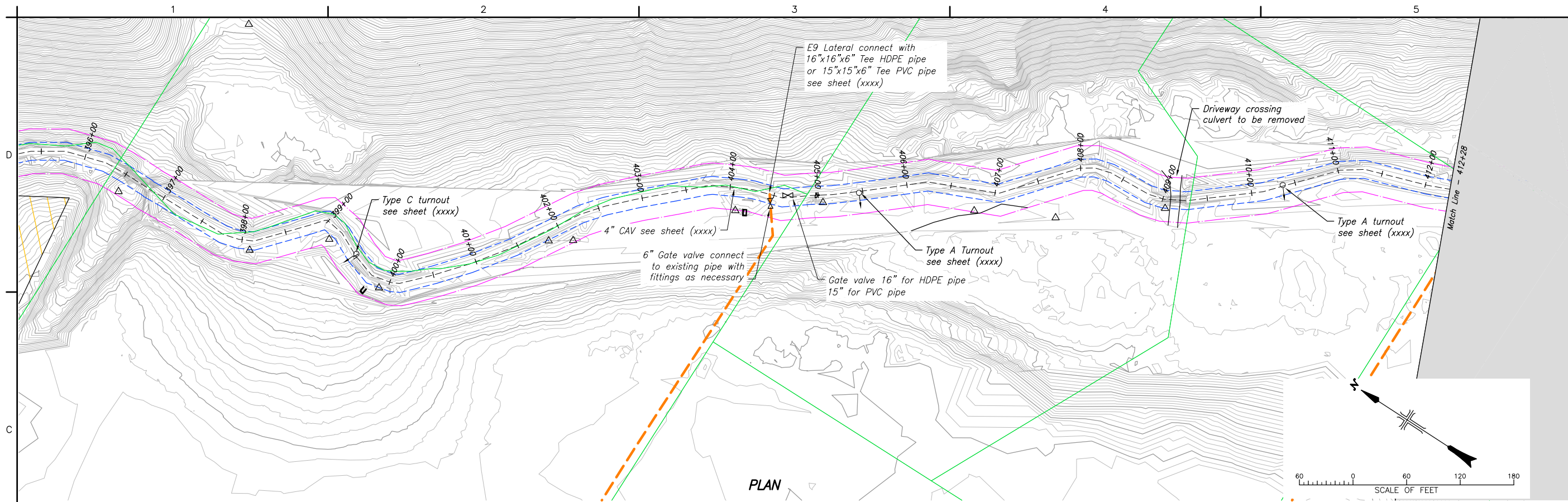
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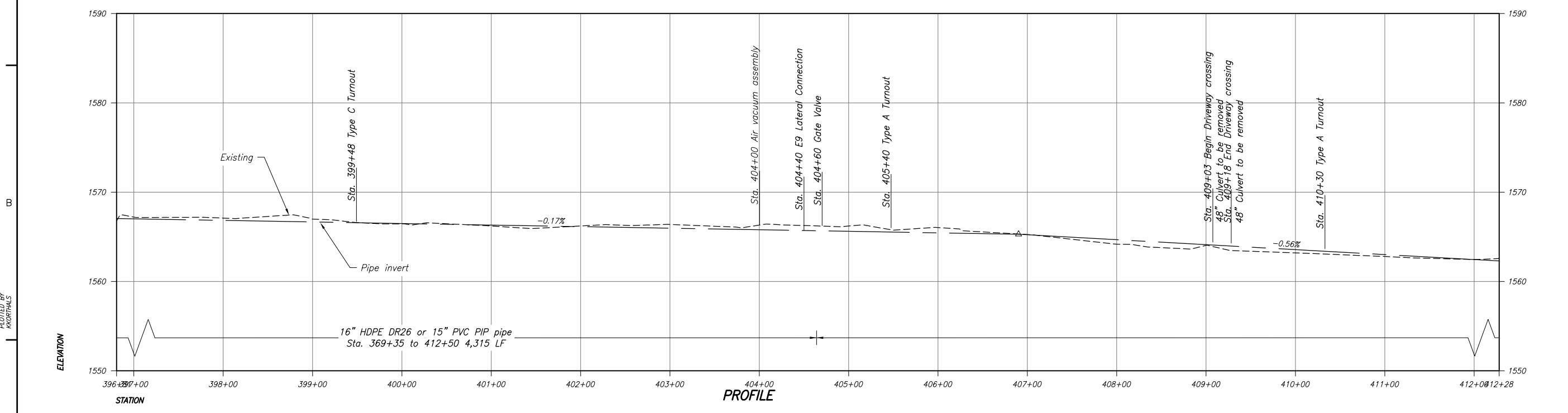
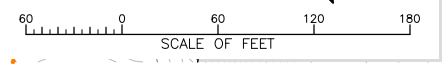
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 INSTREAM FLOW IMPROVEMENT PROJECT
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| BOISE, ID | 2013-09-30 |

MAIN PLAN AND PROFILE
STA. 380+68 TO 396+81



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

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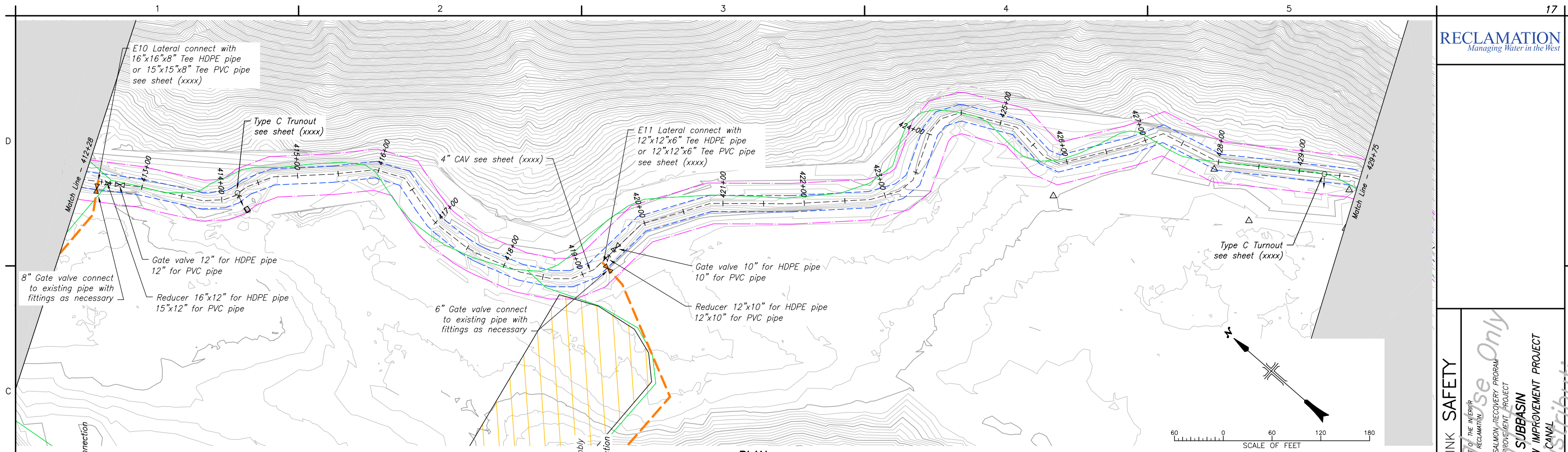
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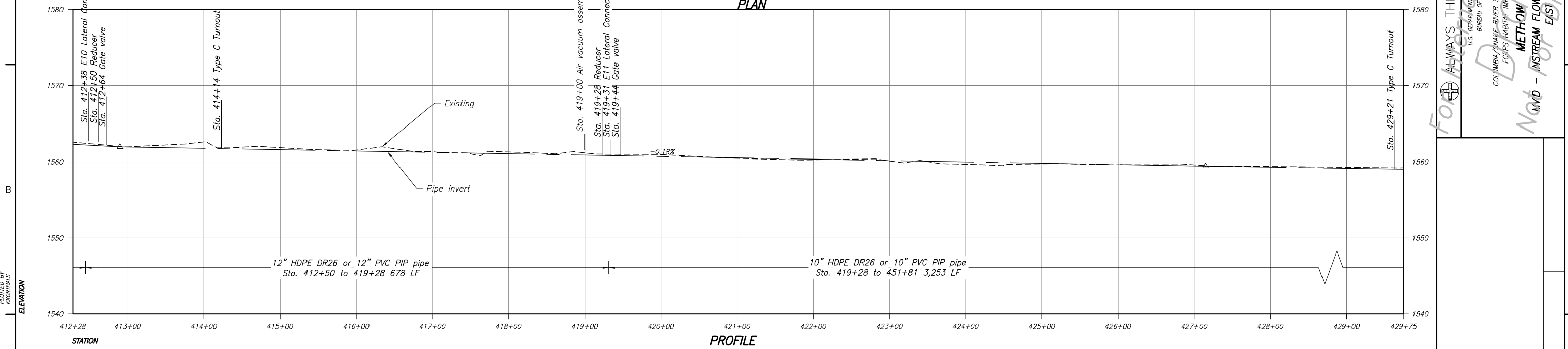
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 COLUMBIA/SNAKE SALMON RECOVERY PROGRAM
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 METHOW SUBBASIN
 MID-STREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

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MAIN PLAN AND PROFILE
STA. 396+81 TO 412+28



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

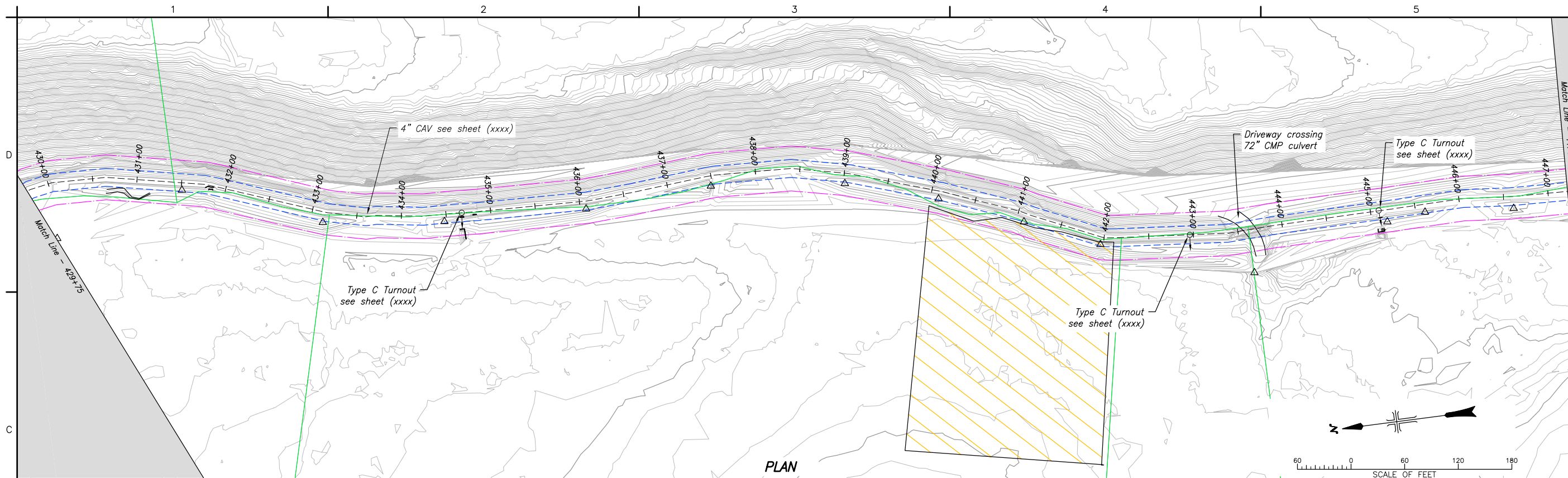
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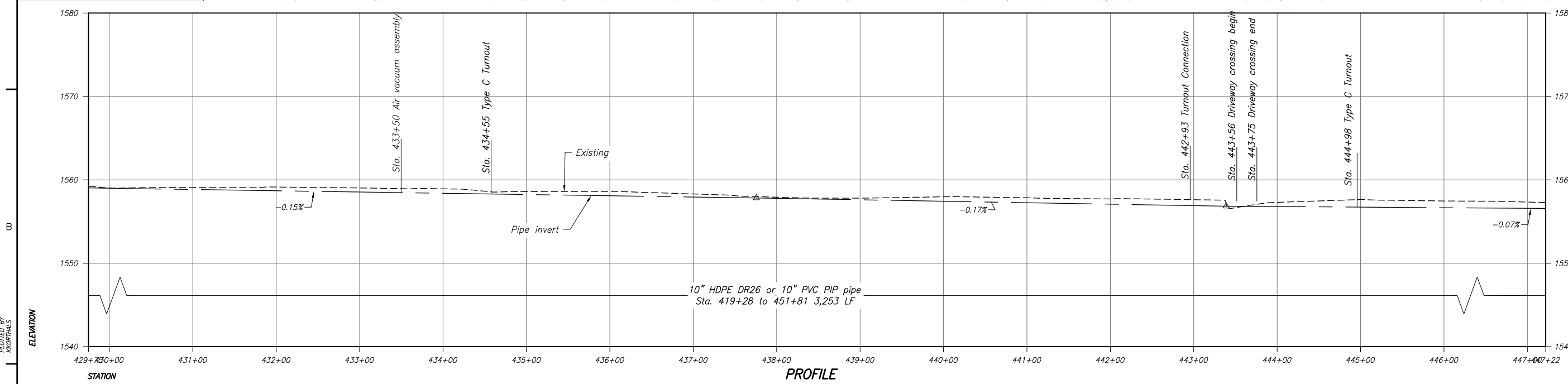
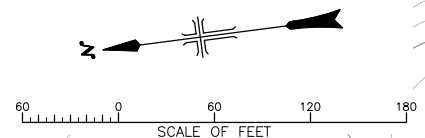
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 COLUMBIA/RIMULE RIVER SALMON-RECOVERY PROGRAM
 FOCUS HABITAT IMPROVEMENT PROJECT
 METHOW SUBBASIN
 MID - INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 Not for Distribution

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| TECH. APPR. | NAME, PROF. ABBR. |
| ADMIN. APPROVAL | NAME TITLE |
| BOISE, ID | 2013-10-24 |

MAIN PLAN AND PROFILE
STA. 412+28 TO 429+75



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
2. The contractor shall furnish additional fittings or bend the pipe per the manufacturer's recommendations to match the alignments and grades shown.
3. The contractor's attention is called to the steep hill slopes surrounding the existing canal. In many locations the centerline of the canal will be the optimum location for the pipe horizontal alignment. Native backfill may not exist in locations of the canal and fill will need to be imported.

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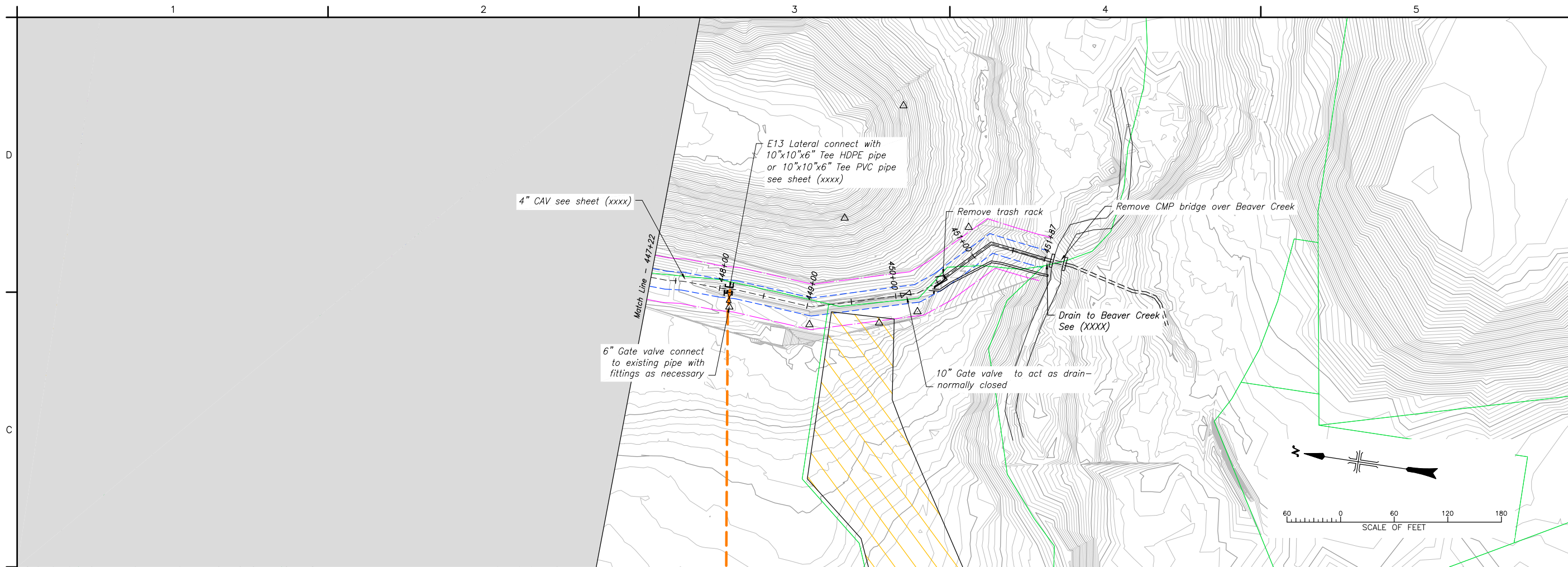
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 FOCUS HABITAT IMPROVEMENT PROJECT
METHOW SUBBASIN
 MID - INSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
 No Distribution

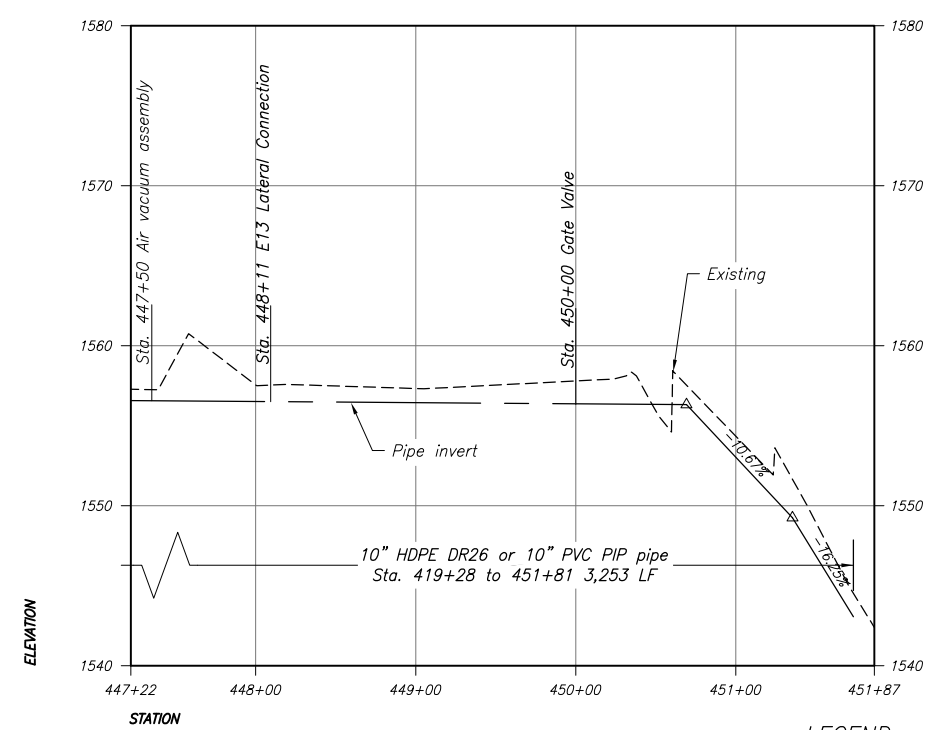
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| BOISE, ID | 2013-10-24 |

MAIN PLAN AND PROFILE
STA. 429+75 TO 447+22

1678-100-XXXX
SHEET 1 OF 1



PLAN



PROFILE

LEGEND

- Pipeline Corridor
- Clearing Limits
- Property Boundaries
- Staging Area

NOTES:

1. The contractor shall be responsible for installing the pipe to match the grades shown. The horizontal alignment shown is intended for PVC pipe and uses standard fittings when possible. The contractor is allowed to vary from this horizontal alignment as long as the vertical profile is maintained and the adjusted alignment stays within the pipeline corridor under the direction of the contracting officer.
2. The contractor shall furnish additional fittings or bend the pipe per the manufacturer's recommendations to match the alignments and grades shown.
3. The contractor's attention is called to the steep hill slopes surrounding the existing canal. In many locations the centerline of the canal will be the optimum location for the pipe horizontal alignment. Native backfill may not exist in locations of the canal and fill will need to be imported.

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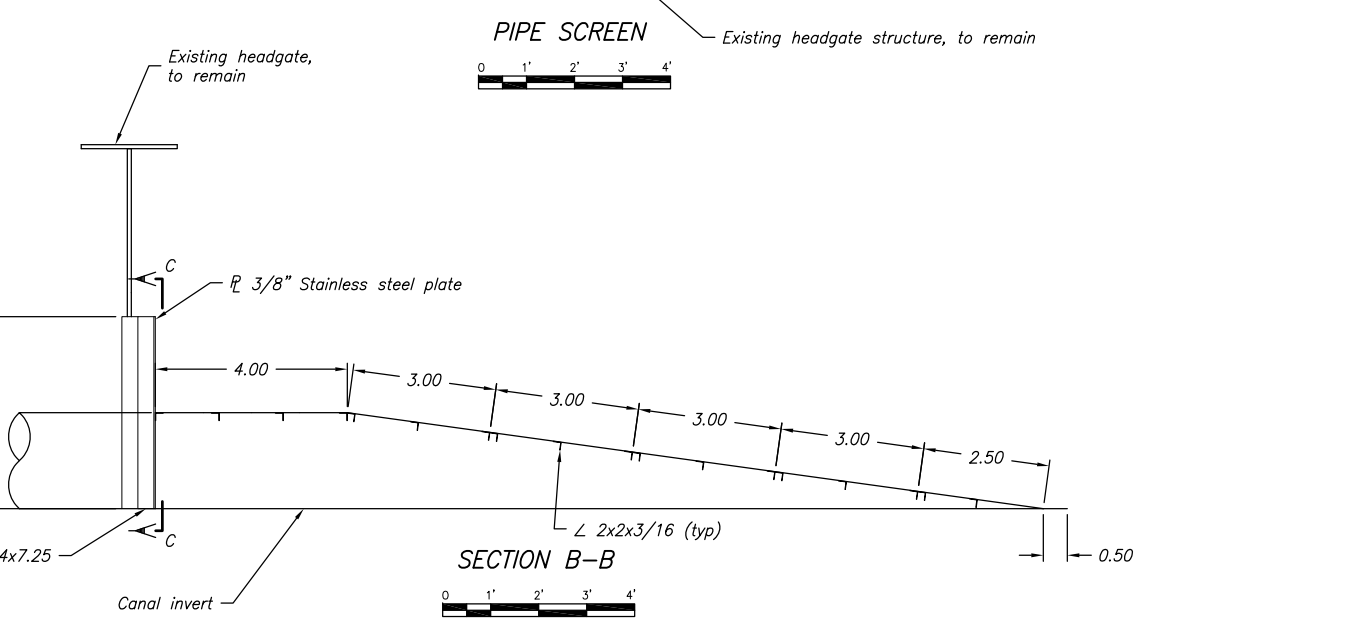
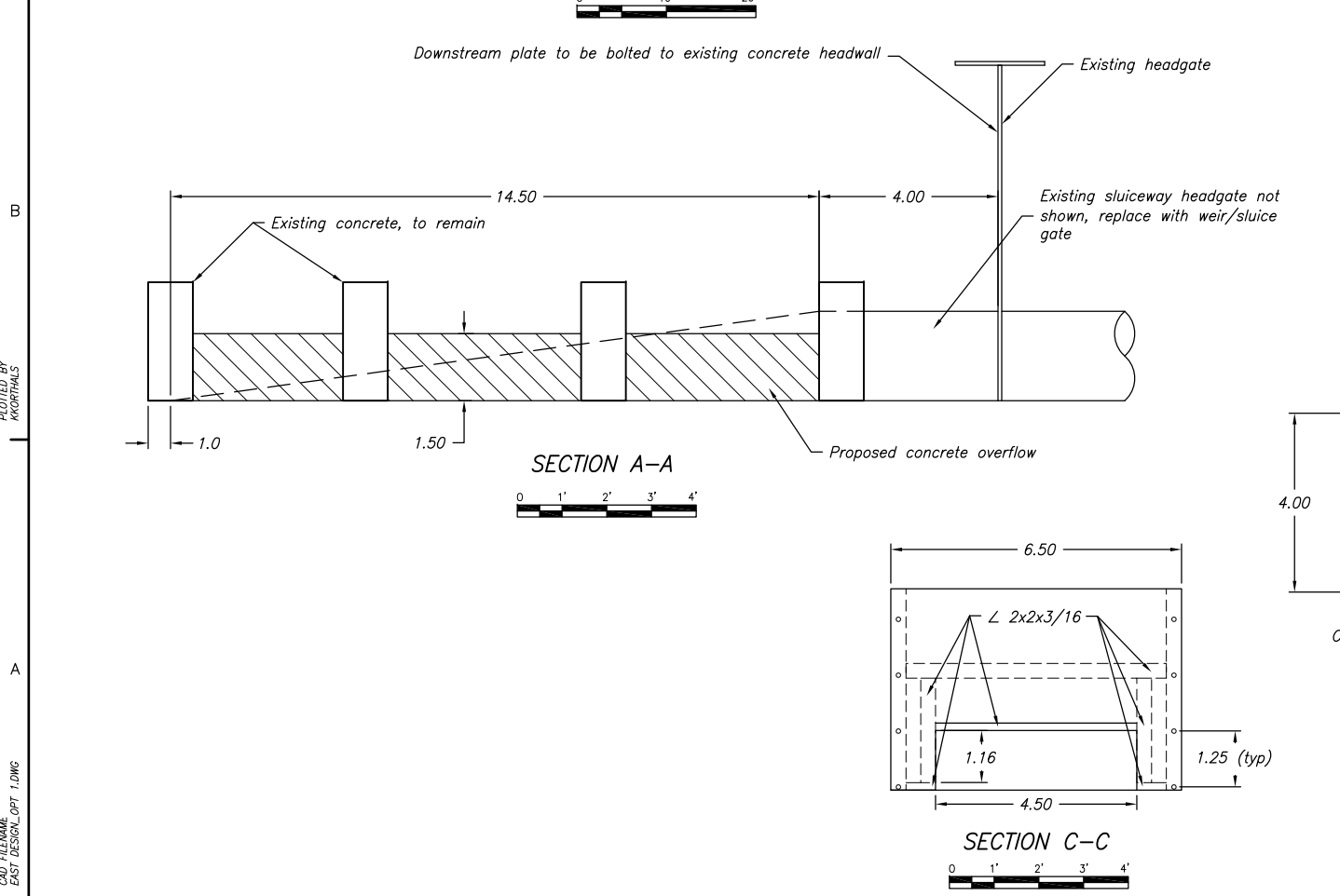
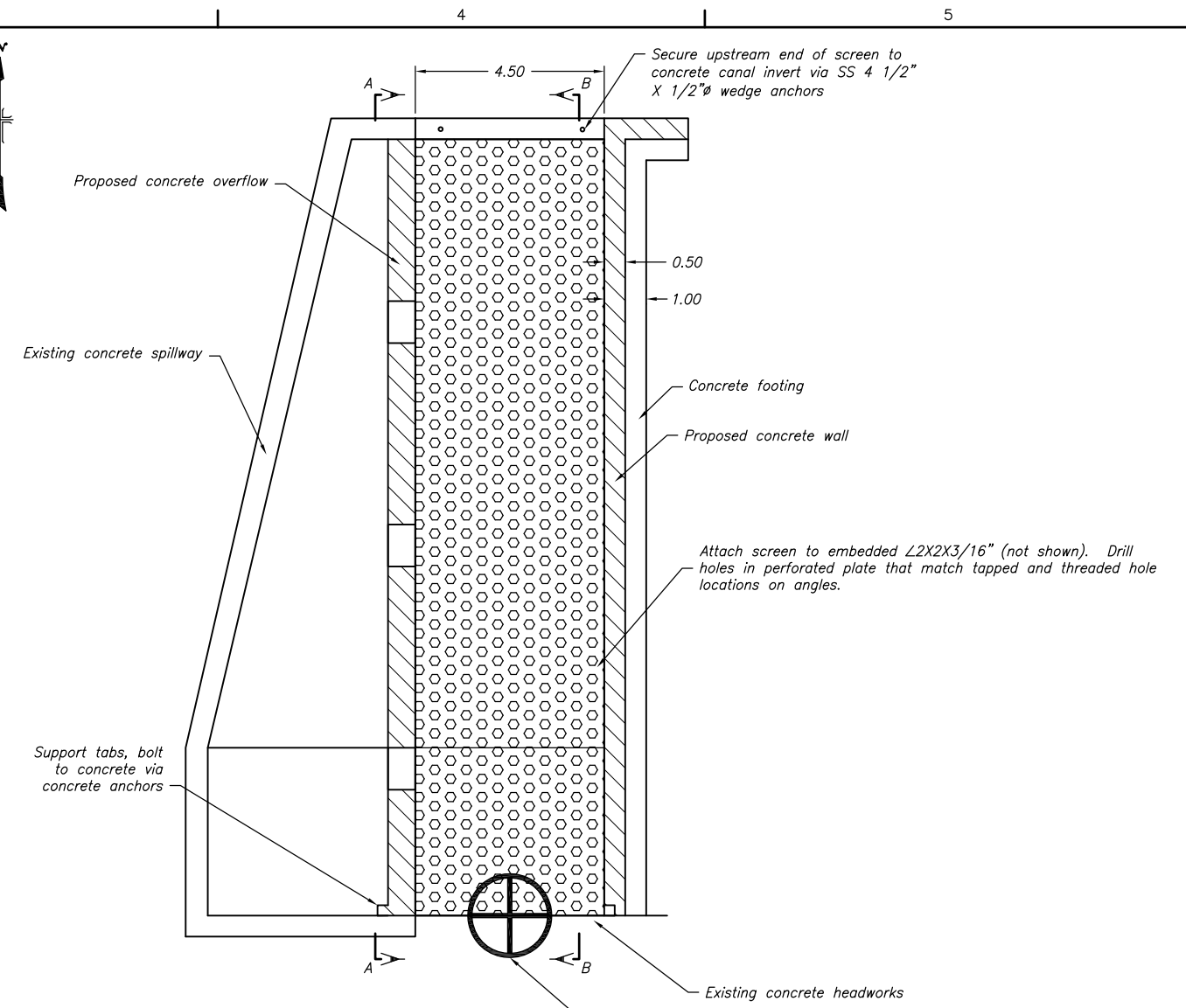
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 FISH HABITAT IMPROVEMENT PROJECT
 METHOW SUBBASIN
 MAINSTREAM FLOW IMPROVEMENT PROJECT
 EAST CANAL
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MAIN PLAN AND PROFILE
STA. 447+22 TO 451+87

1678-100-XXXX
SHEET 1 OF 1



NOTES

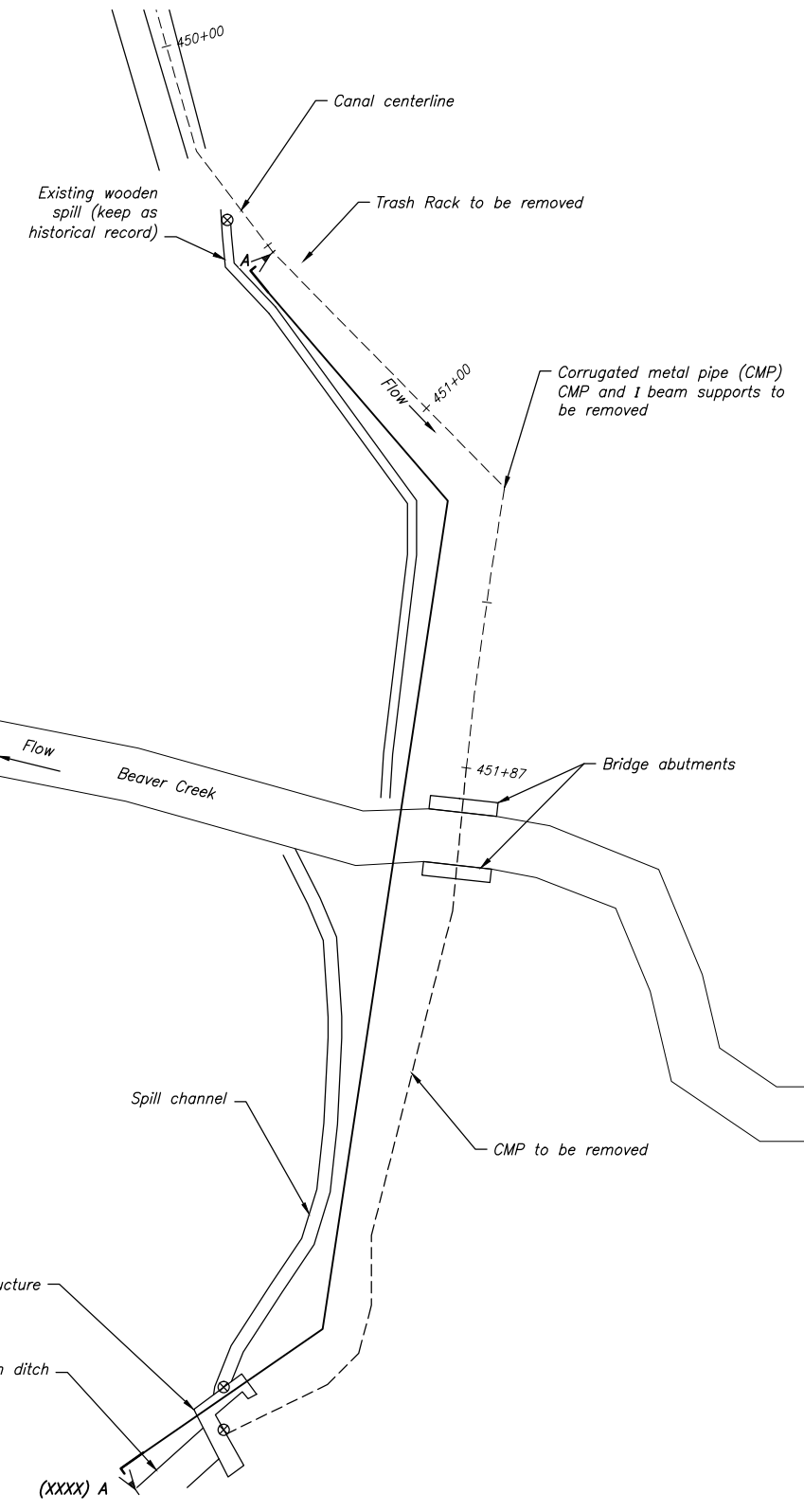
1. Perforated plate is 12 gauge, A304 SS, 1/8" holes with staggered spacing, and no less than 40% open area.

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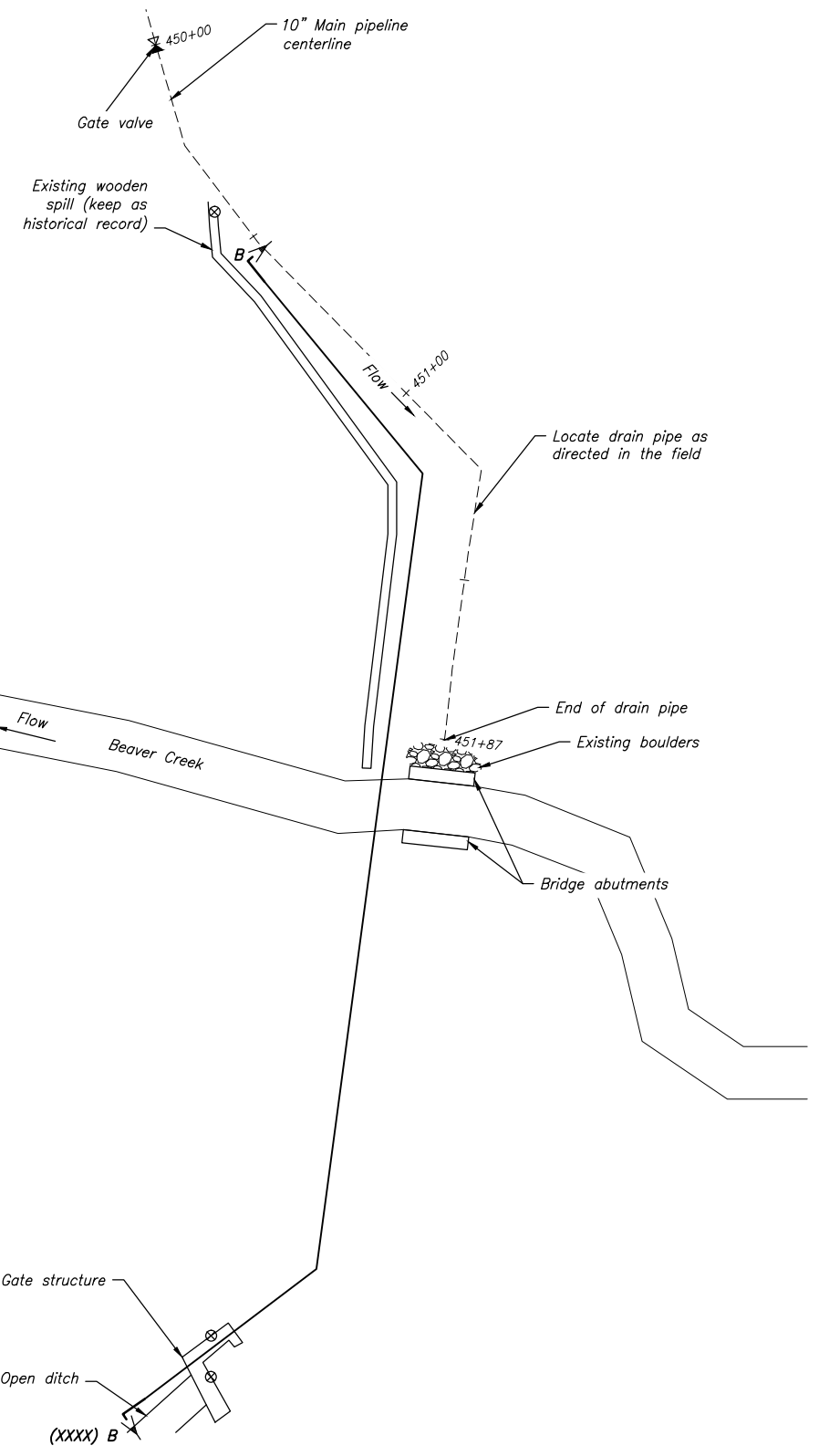
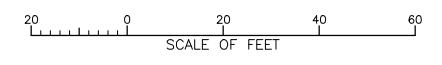
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 METHOW SUBBASIN
 MID-STREAM FLOW IMPROVEMENT PROJECT
 PLAN AND SECTIONS
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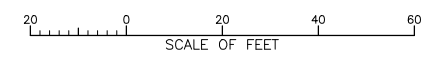
EAST CANAL SCREEN STRUCTURE



BEAVER CREEK SPILL - EXISTING CONDITIONS



BEAVER CREEK SPILL - PROPOSED CONDITIONS



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JHENSEN

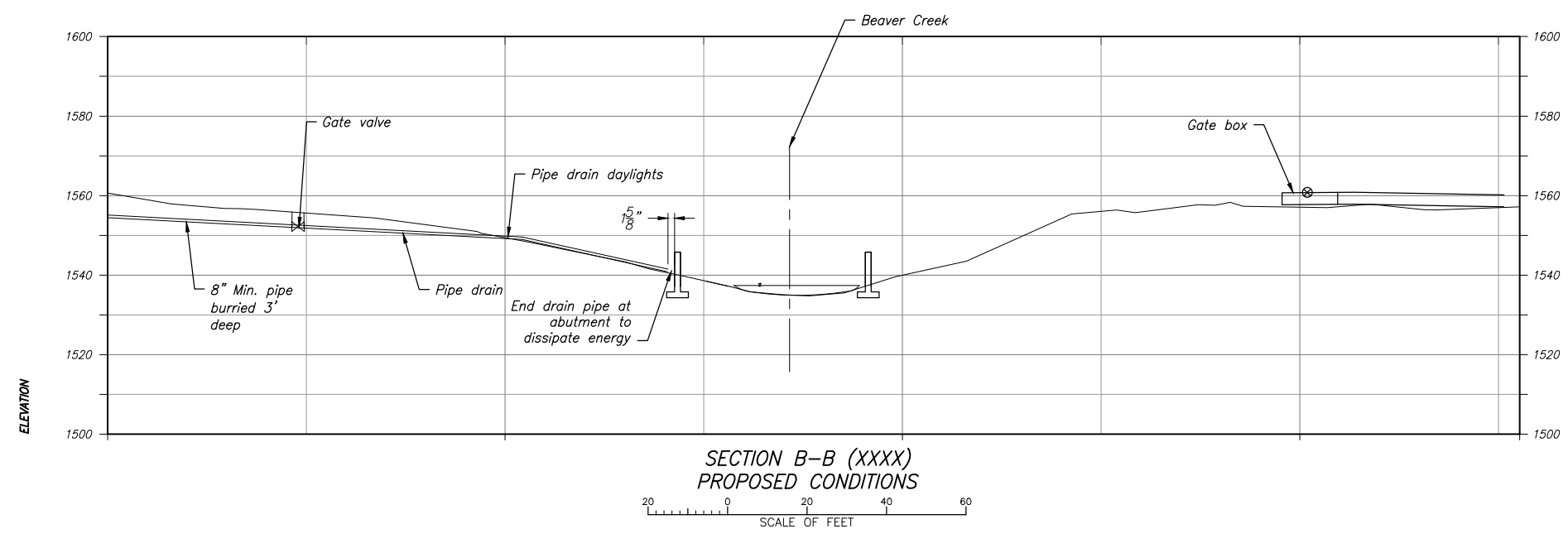
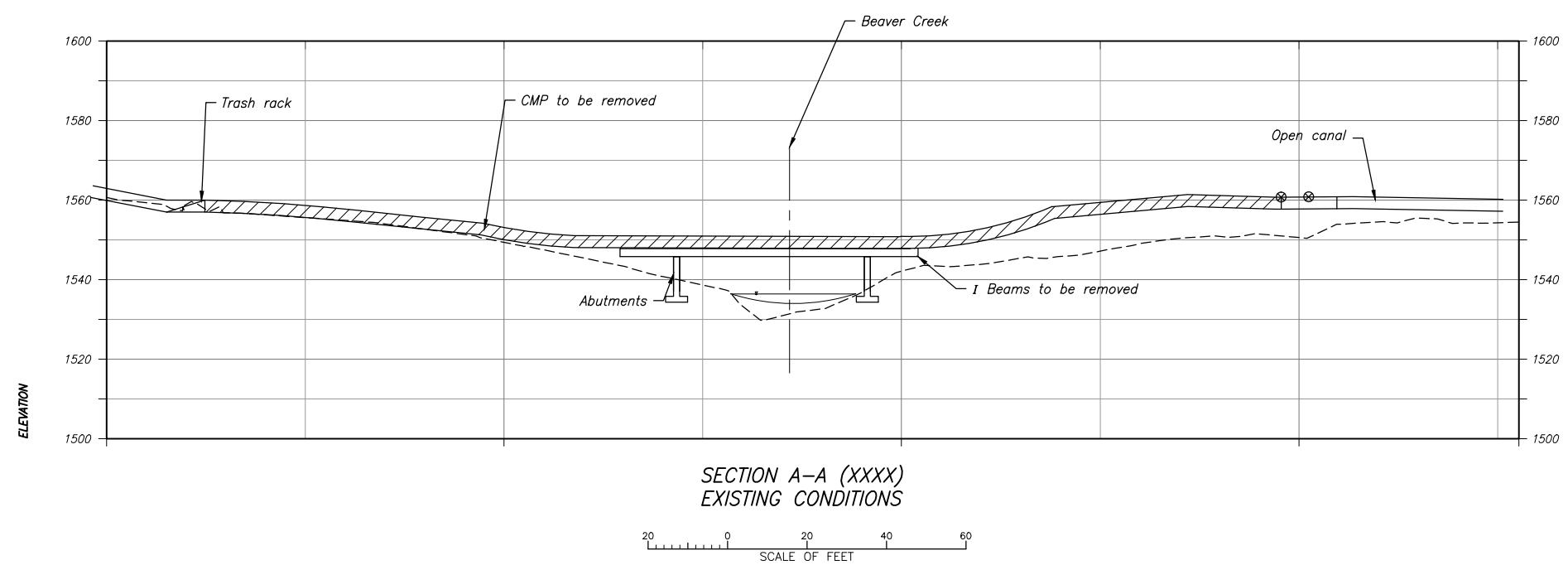
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 END OF PIPELINE PLAN
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END OF PIPELINE PLAN

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 METHOW SUBBASIN
 MID IN-STREAM FLOW IMPROVEMENT PROJECT
 END OF PIPELINE SECTIONS

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| ADMIN. APPROVAL | NAME TITLE |
| BOISE, ID | 2013-11-20 |

END OF PIPELINE
SECTIONS AND DETAILS

1678-100-XXXX
SHEET 1 OF 1

MVID MAIN PIPELINE PVC SPECIFICATION

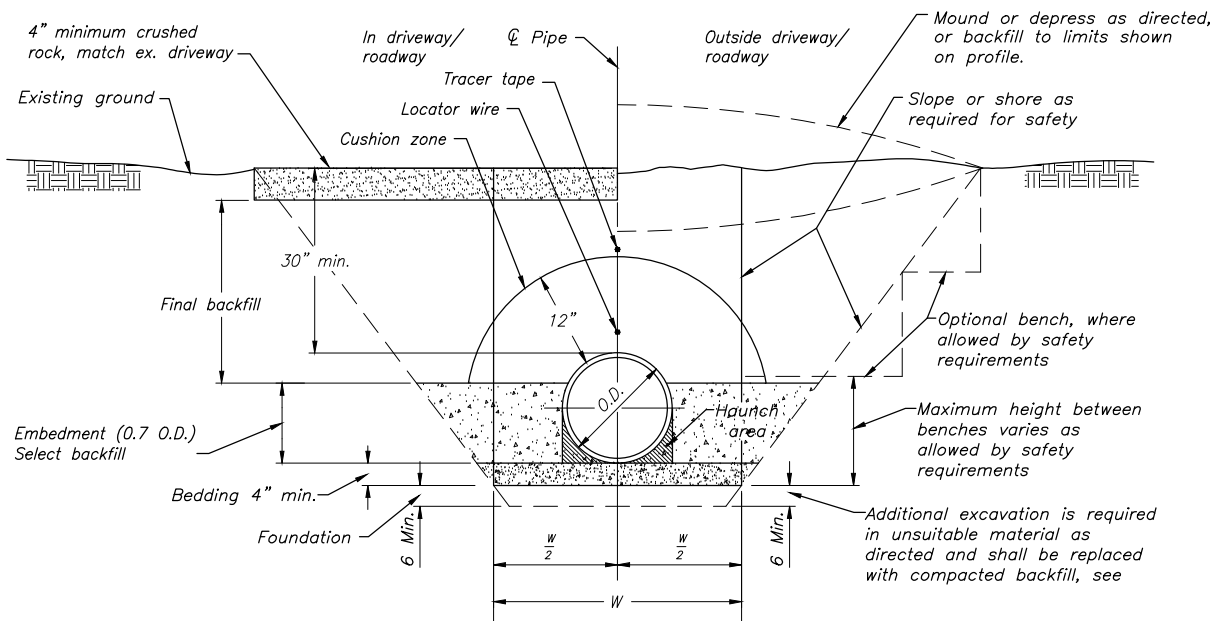
| Start Station (ft) | End Station (ft) | Pipe Length (ft) | Pipe Diameter (inches) | Pipe Pressure Rating (psi) | Pipe Material Specification | Minimum Pipe Bending Radius (ft) | Comment |
|--------------------|------------------|------------------|------------------------|----------------------------|-----------------------------|----------------------------------|--|
| 216+00 | 286+50 | 7,050 | 24 | 80 | PVC IPS, DR 51, P.I.P | 0 | Deflection allowed only according to manufacturers specification |
| 286+50 | 319+00 | 3,250 | 21 | 80 | PVC IPS, DR 51, P.I.P | 0 | Deflection allowed only according to manufacturers specification |
| 319+00 | 369+35 | 5,035 | 18 | 80 | PVC IPS, DR 51, P.I.P | 0 | Deflection allowed only according to manufacturers specification |
| 369+35 | 412+50 | 4,315 | 15 | 80 | PVC IPS, DR 51, P.I.P | 0 | Deflection allowed only according to manufacturers specification |
| 412+50 | 419+28 | 678 | 12 | 80 | PVC IPS, DR 51, P.I.P | 250 | Deflection allowed only according to manufacturers specification |
| 419+28 | 451+81 | 3,253 | 10 | 80 | PVC IPS, DR 51, P.I.P | 300 | Deflection allowed only according to manufacturers specification |

MVID MAIN PIPELINE HDPE SPECIFICATION

| Start Station (ft) | End Station (ft) | Pipe Length (ft) | Pipe Diameter (inches) | Pipe Pressure Rating (psi) | Pipe Material Specification | Minimum Pipe Bending Radius (ft) | Comment |
|--------------------|------------------|------------------|------------------------|----------------------------|-----------------------------|----------------------------------|--|
| 216+00 | 286+50 | 7,050 | 26 | 80 | HDPE IPS, DR 26, PE 4710 | 59 | Deflection allowed only according to manufacturers specification |
| 286+50 | 319+00 | 3,250 | 22 | 80 | HDPE IPS, DR 26, PE 4710 | 50 | Deflection allowed only according to manufacturers specification |
| 319+00 | 369+35 | 5,035 | 18 | 80 | HDPE IPS, DR 26, PE 4710 | 41 | Deflection allowed only according to manufacturers specification |
| 369+35 | 412+50 | 4,315 | 16 | 80 | HDPE IPS, DR 26, PE 4710 | 36 | Deflection allowed only according to manufacturers specification |
| 412+50 | 419+28 | 678 | 12 | 80 | HDPE IPS, DR 26, PE 4710 | 29 | Deflection allowed only according to manufacturers specification |
| 419+28 | 451+81 | 3,253 | 10 | 80 | HDPE IPS, DR 26, PE 4710 | 24 | Deflection allowed only according to manufacturers specification |

Pipeline Notes:

- The Contractor is allowed to construct the pipeline from either HDPE and/or PVC PIP according to the pipeline specification and manufacturer's specification. The plan and profile drawings are laid out according to a typical PVC PIP design utilizing common fittings when possible. For HDPE pipe, the contractor may bend the pipe according to the specifications and avoid using fittings.
- Pressure piping systems that are joined by heat fusion, electrofusion, flanges, and MJ adapters are fully restrained and do not require external joint restraints or thrust block joint anchors. Pipe thrust blocking shall be provided for 4" and larger pipe sizes if the above conditions are not met according to the specifications.
- Maintain minimum cover 2.5-feet; except where otherwise shown on plan and profiles.
- Sloping shoring, and benching shall be in accordance with OSHA Standards.



TYPICAL TRENCH DETAILS

MINIMUM INSTALLATION WIDTH

| PIPE I.D. (INCHES) | W (FEET) |
|--------------------|--------------------|
| 6 and less | 2.0 |
| Over 6 thru 26 | pipe O.D. + 2 min. |

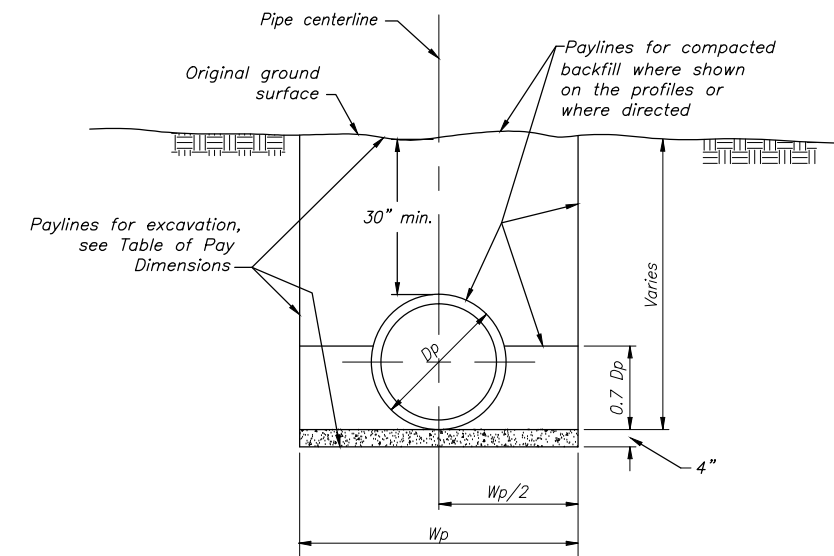
GRADATION LIMITS FOR SELECT MATERIAL

| SIZE * | PERCENT BY WEIGHT |
|-----------------------|-------------------|
| Passing No. 200 sieve | 5 or less |
| Passing No. 50 sieve | 25 or less |

* Maximum size shall not exceed 3/4 inch.

TABLE OF PAY DIMENSIONS

| Pipe I.D. (Inches) | Dp (Inches) | Wp (Feet) |
|--------------------|-------------|-------------|
| 6 and less | I.D. + 2 | 2.0 |
| Over 6 thru 26 | I.D. + 4 | pipe Dp + 2 |



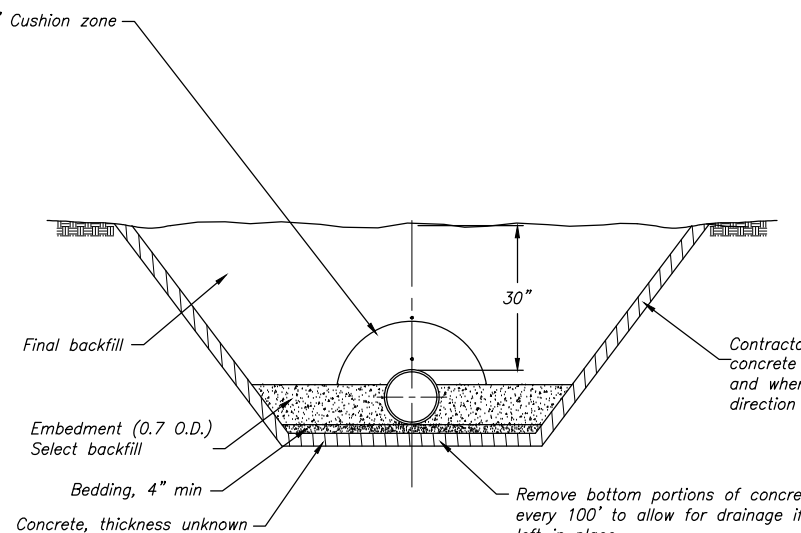
TRENCH FOR PAYLINES ONLY

NOTES

- Dp and Wp are used for calculating pay quantities for all pipe and trench types. Calculations are based on vertical walls.
- Paylines for backfill will be the paylines for excavation, except the volume of the pipe, based on the diameter Dp will be deducted, and except where the depth of backfill is limited as shown on profiles.
- W is minimum width of excavation in feet at bottom of bedding.
- Pipe diameters shown are the nominal inside diameter (I.D.) of the pipe in inches unless otherwise indicated, O.D. is outside diameter in inches of the pipe actually installed.

TYPICAL TRENCH NOTES:

- Minimum cover for all pipe shall be thirty inches (30") from top of pipe to finish grade unless otherwise shown on the plans or approved by the Contracting Officer.
- Foundation - If excavated trench bottom is unstable or not suitable, the Contractor shall excavate to a depth required by the Contracting Officer and backfill with pipe bedding. Place pipe bedding in maximum 6-inch lifts and compact to 90% of maximum dry density. Bottom of trench will be free of rock and smoothed to prevent bridging.
- Pipe bedding - Select backfill for pipe bedding shall be at least 6 inches deep and shall meet the requirements of the specifications. Bedding may be compacted or un-compacted depending on the recommendations of the pipe manufacturer.
- Embedment - Select backfill for embedment shall be placed at least 70% of the pipe diameter (O.D.) deep and shall meet the requirements of the specifications. Place select backfill in 6-inch lifts and compact to 90% of maximum dry density.
- Inner Cushion Zone - The Contractor shall backfill the area within 12" of the pipe with excavated native material or imported material that has a maximum particle size of 0.75" and is free from organic material. The backfill shall be well drained and suitable for placement and compaction. Place backfill in maximum 6-inch lifts and compact to 90% of maximum dry density with the exception of the area directly over the top of the pipe. The area directly over the top of the pipe shall not be mechanically compacted until there is a minimum of 12" of cover over the pipe.
- Final backfill - The Contractor shall backfill the remaining portion of the trench to the lines and grades shown with excavated native material or imported material that has a maximum particle size of 3 inches and is free from organic material. The backfill shall be well drained and suitable for placement and compaction. Place backfill in maximum 6-inch lifts and compact to 90% of maximum dry density.
- Tracer tape and locator wire - Tracer tape shall meet the requirements of section 9-15.18 of the WSDOT "Standard Specifications for Road, Bridge, and Municipal Construction" (2014 edition). Locator wire shall be 12 ga. copper multi-strand RHW, certified for direct burial. The tracer tape and locator wire shall be installed along the entire profile of the pressurized pipe (Sta. XX+XX to end).
- Existing soil conditions - No subsurface exploration has been done along the alignment of the proposed pipeline. The Contractor shall be responsible for assessing existing soil, and ground water conditions before trench excavation.



TRENCH SECTION THROUGH EXISTING CONCRETE LINED CANAL

Sta. 216+50 to Sta. 234+50

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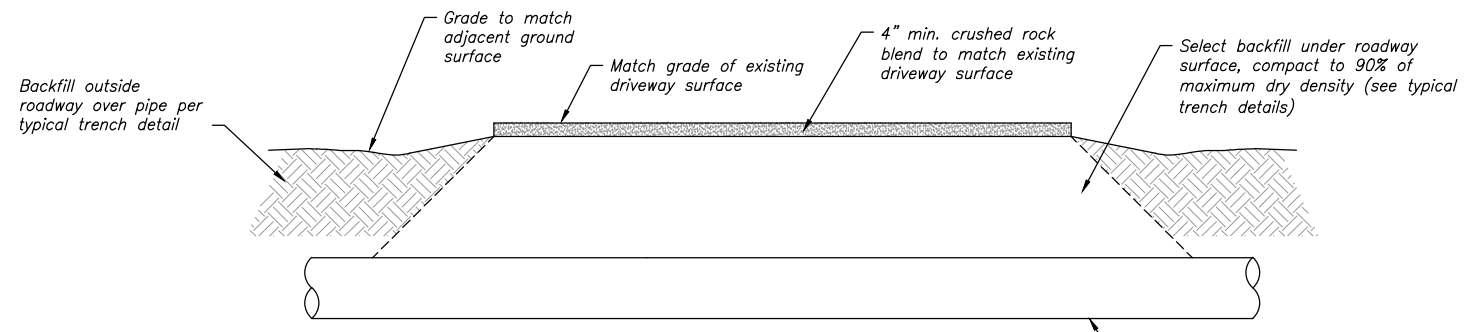
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 ECOPH HABITAT IMPROVEMENT PROGRAM
 METHOW SUBBASIN
 MVID - INSTREAM FLOW IMPROVEMENT PROJECT
 PIPE SPECIFICATION AND TRENCHING DETAILS

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| ADMIN. APPROVAL | NAME, TITLE |
| BOISE, ID 2013-09-11 | |

PIPE SPECIFICATIONS AND TRENCH DETAILS

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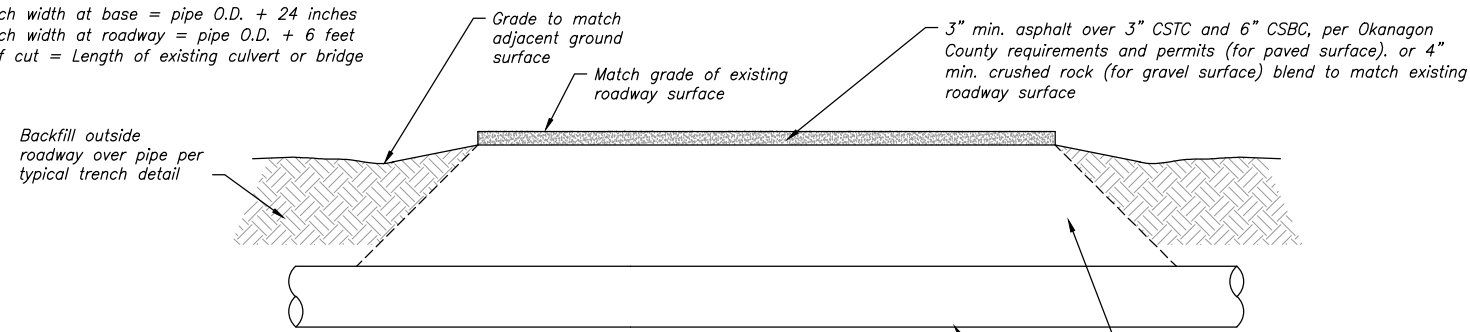
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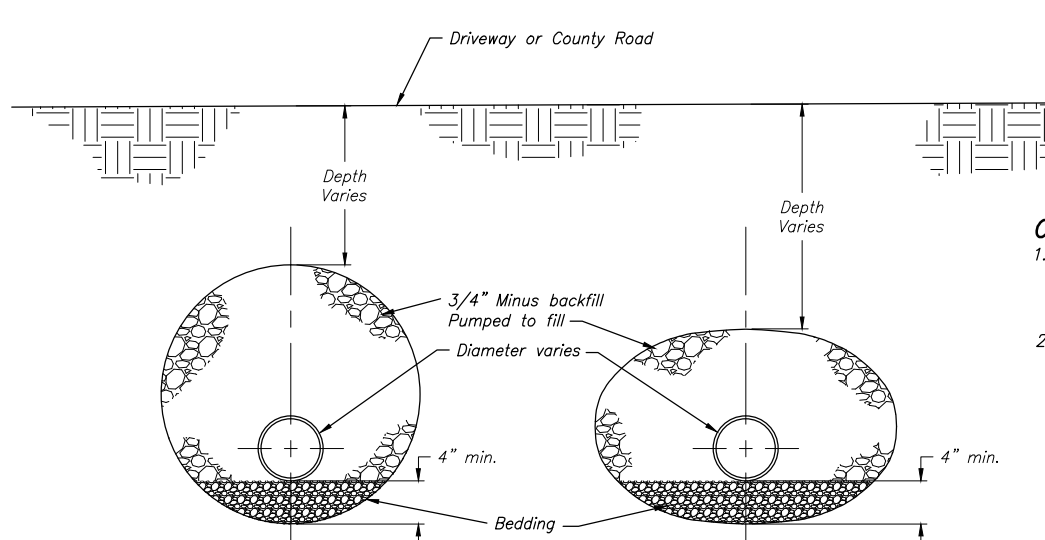
TYPICAL DRIVEWAY CROSSING DETAIL
(Private driveway or roadway)
N.T.S.

TYPICAL CROSSING NOTES:

1. Verify roadway crossing repair requirements with Okanagon County prior to constructing roadway crossing.
2. For payment of materials, trench across roadway shall be as follows:
 Max trench width at base = pipe O.D. + 24 inches
 Max trench width at roadway = pipe O.D. + 6 feet
 Length of cut = Length of existing culvert or bridge



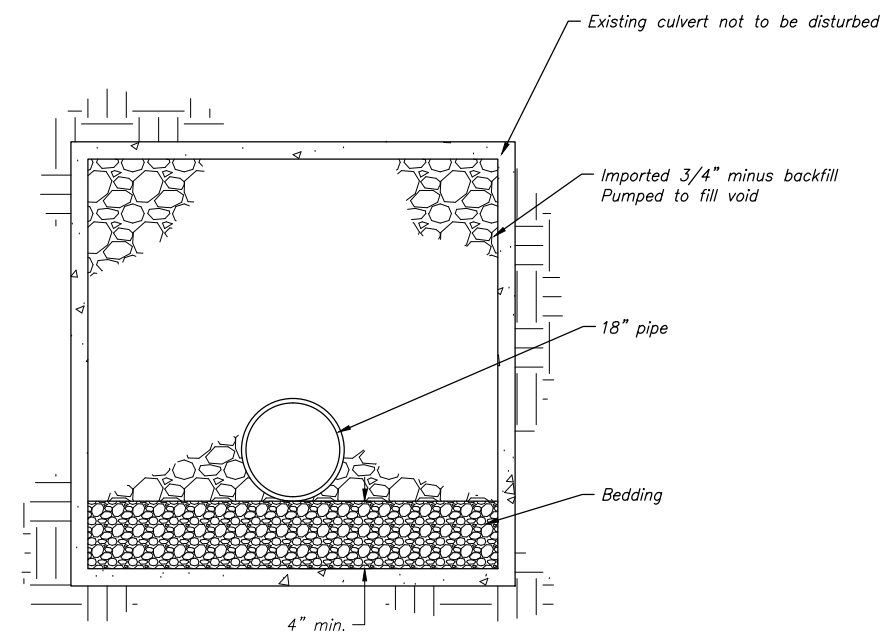
TYPICAL ROADWAY CROSSING DETAIL
(County roadway)
N.T.S.



TYPICAL CULVERT DETAIL
N.T.S.

CULVERT NOTES:

1. With the exception of Highway 20 culvert which must be slipped, contractor can elect to slip the pipe through existing culverts or remove culverts under the direction of the contracting officer.
2. Pipes slipped through existing culverts shall have a minimum of 4" of bedding material and completely embedded in 3/4" minus backfill for support.



**BOX CULVERT
HIGHWAY 20 CROSSING**
N.T.S.

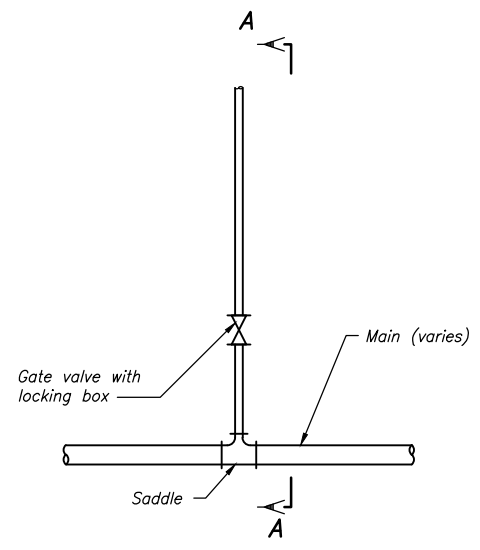
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JHENSEN

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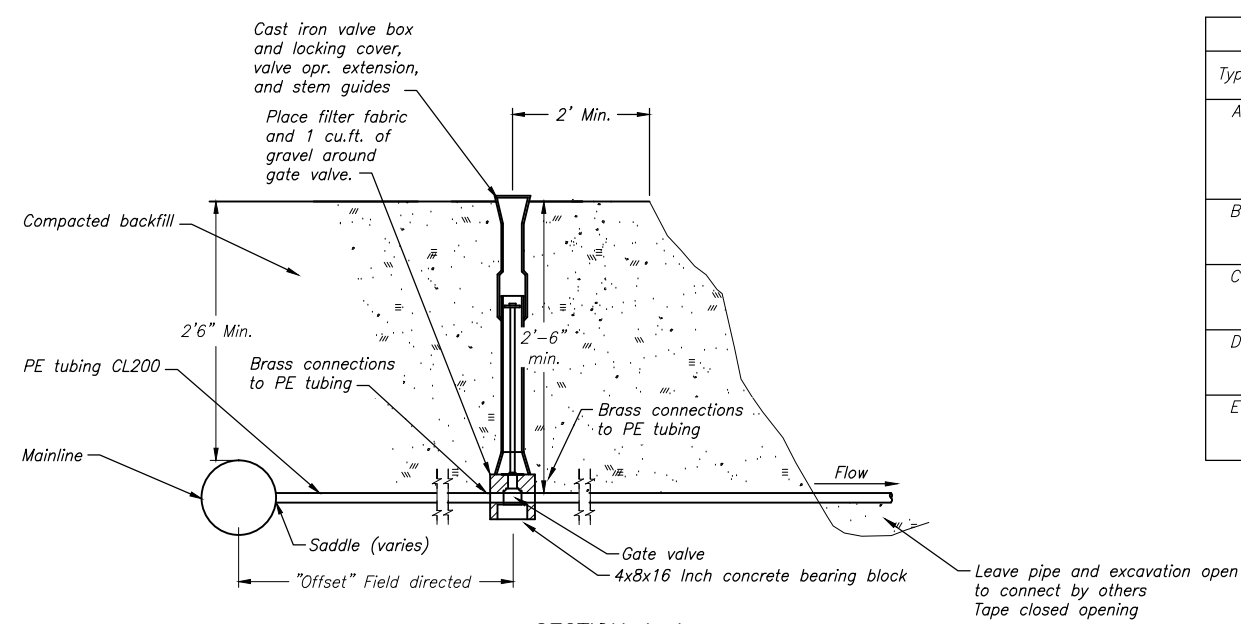
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 INSTREAM FLOW IMPROVEMENT PROJECT
 PIPE CROSSING DETAILS
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| ADMIN. APPROVAL | NAME TITLE |
| BOISE, ID | 2013-09-11 |

PIPE CROSSING DETAILS

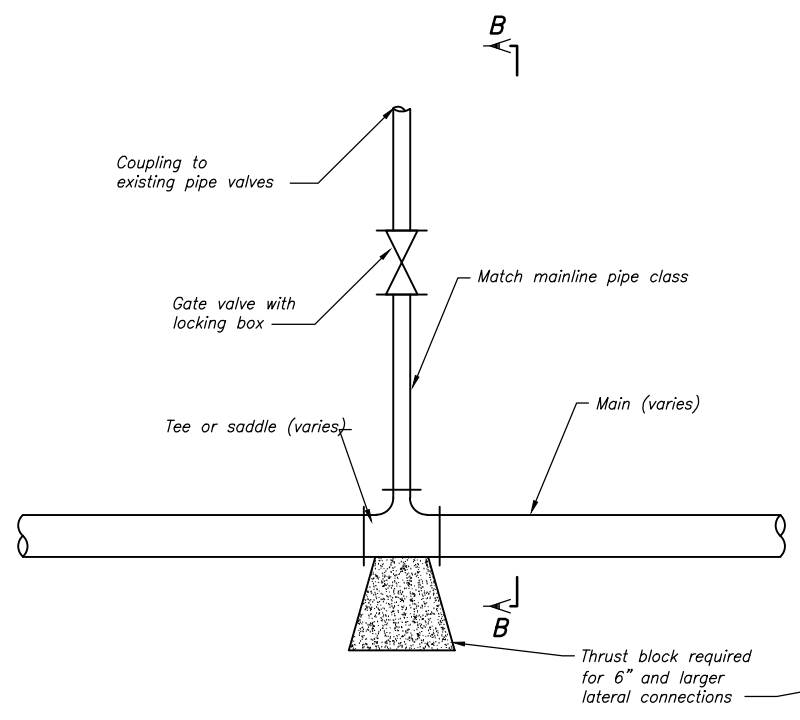


TURNOUT CONNECTION
NOT TO SCALE

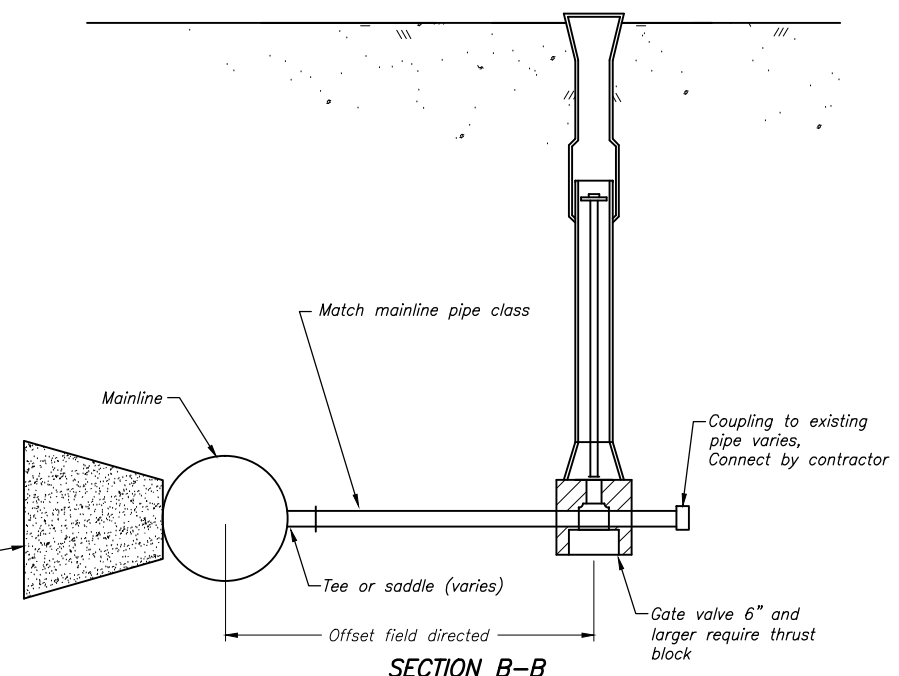


SECTION A-A
NOT TO SCALE
(Tee or saddle, pipe, valve, and fittings sized to match turnout type)

| TURNOUT PIPE SIZE | | | | |
|-------------------|-----------|----------|----------|---|
| Type | Pipe Size | Acres | Quantity | Saddle |
| A | 1-1/2" | <1 | 8 | Double Strap Saddle Tap, Romac 202S FIPT, or approved equivalent |
| B | 2" | 1-5 | 20 | Double Strap Saddle Tap, Romac 202S FIPT, or approved equivalent |
| C | 3" | 5-10 | 9 | Clamp on Saddle Tap, Morrill Industries 1095 or 1096 FIPT, or approved equivalent |
| D | 4" | 10 to 20 | | Clamp on Saddle Tap, Morrill Industries 1095 or 1096 FIPT, or approved equivalent |
| E | 6" | >20 | 2 | Clamp on Saddle Tap, Morrill Industries 1095 or 1096 FIPT, or approved equivalent |



LATERAL CONNECTION DETAIL
NOT TO SCALE



SECTION B-B
NOT TO SCALE
(Tee or saddle, pipe, valve, and fittings sized to match lateral pipe specification)

| LATERAL CONNECTION SPECIFICATIONS | | | |
|-----------------------------------|--------------------|----------------------|--|
| A | Mainline Station | B | Existing Pipe |
| Lateral | Lateral Connection | Gate Valve Size (in) | |
| E1 new | 244+05 | 12 | New 12"-Match Mainline Pipe Type and Class |
| E1 old | 260+98 | 12 | Unknown |
| E2 | 286+42 | 15 | 15" PVC |
| E4a | 310+09 | 2 | New 2" Class 200 Poly Ethylene Tubing |
| E4b | 311+04 | 2 | New 2" Class 200 Poly Ethylene Tubing |
| E4 Existing | 314+01 | 6 | 6"-PVC |
| E5 | 318+96 | 10 | 10" PVC |
| E7 | 369+23 | 6 | Unknown |
| E9 | 404+40 | 6 | Unknown |
| E10 | 412+38 | 8 | Unknown |
| E11 | 419+31 | 6 | Unknown |
| E13 | 449+56 | 6 | 6" PVC |

- Notes:**
1. Locate valve boxes out of traffic areas, as approved.
 2. Compact backfill at bends, tee outlets for deliveries, drains and valves, other pipe crossings.
 3. Maintain minimum cover 2.5-feet; except where otherwise shown on plan and profiles.

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PLOTTED BY: JHWELSEN

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PIPE DETAILS (L)UNDWG

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 MID - INSTREAM FLOW IMPROVEMENT PROJECT
 TURNOUT AND LATERAL CONNECTION DETAILS

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| TECH. APPR. | NAME, PROF. ABR. |
| ADMIN. APPROVAL | NAME, TITLE |
| BOISE, ID | 2013-09-11 |

TURNOUT AND LATERAL CONNECTION DETAILS

