

CITY OF RAWLINS
RAWLINS, WYOMING

CONSTRUCTION OF SAGE CREEK
TRANSMISSION PIPELINE

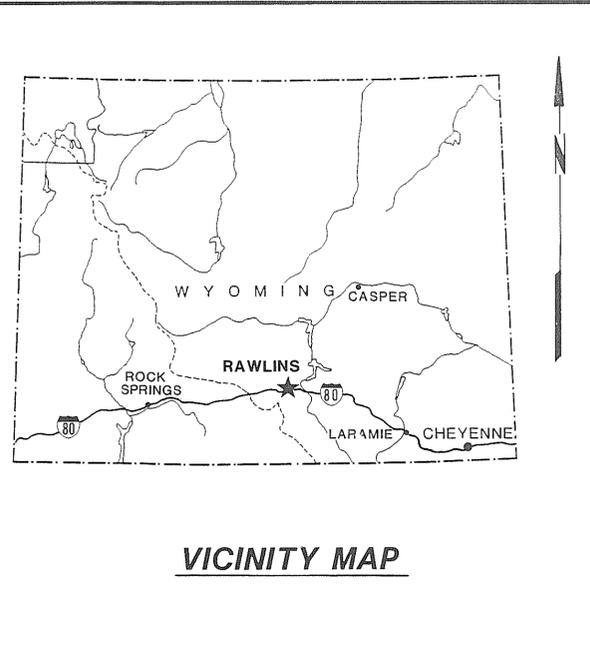
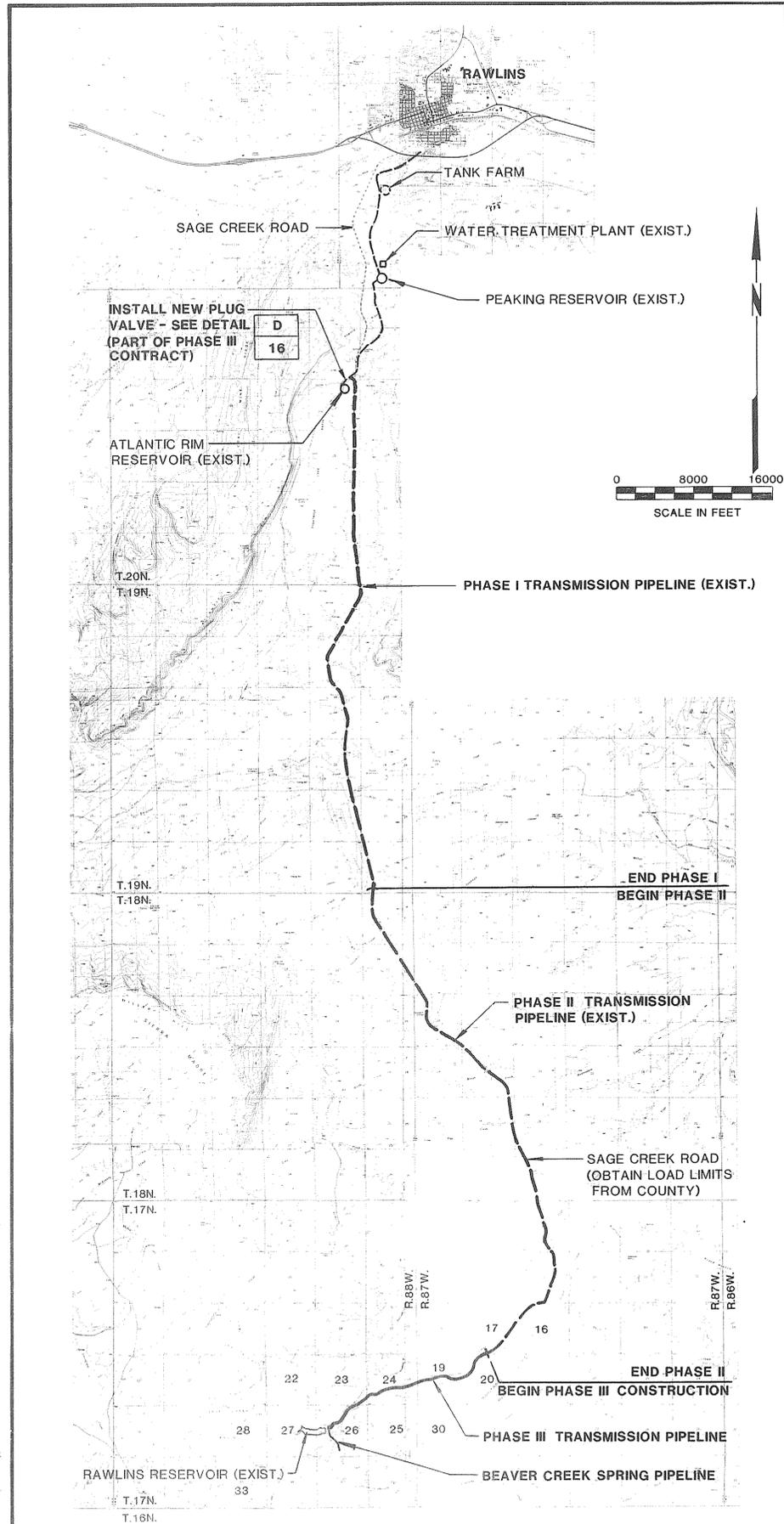
PHASE III

DRAWINGS
1988

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. 
LARAMIE WYOMING

RECORD DRAWING
These record drawings have been prepared based upon information provided by others. The Engineer has not verified the accuracy of such information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.





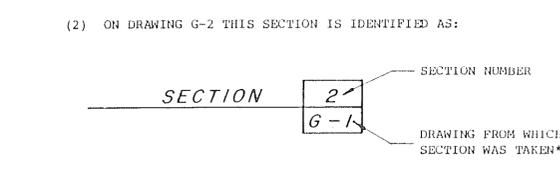
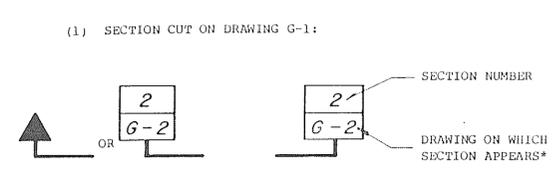
LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LOCATION MAP, VICINITY MAP, LIST OF DRAWINGS, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
3	HYDRAULIC PROFILE
4	PIPELINE - PLAN AND PROFILE - STA. 1142+93 TO STA. 1170+00
5	PIPELINE - PLAN AND PROFILE - STA. 1170+00 TO STA. 1196+00
6	PIPELINE - PLAN AND PROFILE - STA. 1196+00 TO STA. 1224+00
7	PIPELINE - PLAN AND PROFILE - STA. 1224+00 TO STA. 1252+00
8	PIPELINE - PLAN AND PROFILE - STA. 1252+00 TO STA. 1281+00
9	PIPELINE - PLAN AND PROFILE - STA. 1281+00 TO STA. 1309+00
10	PIPELINE - PLAN AND PROFILE - STA. 1309+00 TO STA. 1329+00
11	BEAVER CREEK SPRING PIPELINE - PLAN AND PROFILE STA. 0+00 TO STA. 20+00
12	BEAVER CREEK SPRING PIPELINE - PLAN AND PROFILE STA. 20+00 TO STA. 32+57.4
13	OVERFLOW STRUCTURE - SITE PLAN
14	OVERFLOW STRUCTURE PLAN, SECTION AND DETAILS
15	PIPELINE DETAILS - I
16	PIPELINE DETAILS - II
17	PIPELINE DETAILS - III
18	PIPELINE AND MECHANICAL DETAILS
19	CATHODIC PROTECTION DETAILS
20	ALTERNATE VAULT AND PIPING DETAILS

SYMBOLS

	ACCESS MANHOLE
	AIR VACUUM / AIR RELEASE VALVE (PLAN)
	AIR VACUUM / AIR RELEASE VALVE (PROFILE)
	ANGLE
	BLOWOFF (PLAN)
	BLOWOFF (PROFILE)
	BUTTERFLY VALVE OR GATE VALVE
	ELECTRICAL TEST STATION
	GAS (EXISTING)
	OVERHEAD POWER LINES (EXISTING)
	PAVEMENT (EXISTING)
	SANITARY SEWER (EXISTING)
	STORM DRAIN (EXISTING)
	TELEPHONE LINES OR CABLE (EXISTING)
	VALVED OUTLET
	WATER MAIN (EXISTING)
	BENCHMARK
	DIAMETER
	CENTERLINE
	LESS THAN OR EQUAL TO
	PRESSURE RELIEF/SUSTAINING VALVE
	RIGHT-OF-WAY
	EASEMENT

SECTION AND DETAIL IDENTIFICATION



*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

ABBREVIATIONS

AC	ASBESTOS CEMENT	LB	POUND
AC	ASPHALTIC CONCRETE	LGT	LENGTH
ACP	ASBESTOS CEMENT PIPE	LT	LEFT
AH	AHEAD		
ALUM	ALUMINUM	MAX	MAXIMUM
APPROX	APPROXIMATELY	MECH	MECHANICAL
AV	AIR VACUUM & AIR RELEASE VALVE	MFR	MANUFACTURER
AWWA	AMERICAN WATERWORKS ASSOC.	MH	MANHOLE
		MIN	MINIMUM
		MI	MALLEABLE IRON
BK	BACK	NOM	NOMINAL
B F	BUTTERFLY	N	NORTH
B/O	BLOWOFF	NIC	NOT IN CONTRACT
CI	CAST IRON	NO	NUMBER
CLR	CLEARANCE	NPT	NATIONAL PIPE THREAD
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
CO	COUNTY		
CONC	CONCRETE	OC	ON CENTER
CONST	CONSTRUCT, CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS, CONTINUATION	OPNG	OPENING
COR	CORNER		
CORP	CORPORATION	PSI	POUNDS PER SQUARE INCH
CPLG	COUPLING	PC	POINT OF CURVATURE
		PE	POLYELECTROLYTE, PLANT EFFLUENT
DET	DETAIL	PL	PLATE
DIA OR	DIAMETER	PT	POINT
DRWG OR	DRAWING	PT	POINT OF TANGENCY
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
E	EAST	RD	ROAD
E F	EACH FACE	REINF	REINFORCEMENT, REINFORCING
EA	EACH	REQD	REQUIRED
ELEC	ELECTROLYSIS	RT	RIGHT
EL OR	ELEVATION	R/W	RIGHT-OF-WAY
ELEV	EQUIPMENT		
EQUIP	EQUIPMENT	S	SOUTH
ESMT	EASEMENT	SCH	SCHEDULE
EXIST	EXISTING	SHT	SHEET
		SPECS	SPECIFICATIONS
FT	FOOT, FEET	SQ	SQUARE
FIG	FIGURE	SS	STAINLESS STEEL
FIN	FINISHED	STA	STATION
FLEX	FLEXIBLE	STD	STANDARD
FLG	FLANGE	STN	STAINLESS
F S	FORGED STEEL	STL	STEEL
GA	GAUGE	THK	THICK
GALV	GALVANIZED	TRANS	TRANSMISSION
		TYP	TYPICAL
HORIZ	HORIZONTAL	VAC	VACUUM
HEX	HEXAGON	VERT	VERTICAL
HWY	HIGHWAY		
		W/	WITH
IN	INCH, INCHES	W	WEST
IDENT	IDENTIFICATION	WWM	WELDED WIRE MESH
ID	INSIDE DIAMETER		
INV	INVERT ELEVATION		

RECORD DRAWING

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GENERAL NOTES

- The existing wood stave pipeline is to remain in service until completion of this project. See section 01530 of the specifications regarding repair and protection of the existing wood stave pipeline.
- All drainage ditches, whether man-made or natural drainages and cut/fill slopes disturbed during construction shall be restored with flat bottoms and not "veed".
- Elevations shown on plan and profile sheets are from aerial survey and shall be considered accurate to half of the contour interval shown.
- Top of new pipeline shall be 5'-0" below existing grade unless shown otherwise on the drawings. Where grades or elevations are shown on the drawings, the pipe shall be laid to the set grade and elevation to within approximately one inch, plus or minus. Where no grades are shown on the drawings, the pipe shall be laid to maintain a positive or negative slope as shown with the required minimum cover as shown.
- See cathodic protection drawings, Sheet 19, for corrosion protection requirements.
- See Detail A, Sheet 18 for pipeline and appurtenance marker post requirements.
- Road restoration to original or better condition is required where the new pipeline crosses the existing access roadway.
- Property ownerships along pipeline.

T17N R87W	T17N R88W
Section 17 - BLM	Sec 23 & 24 - C. Rochelle
Section 19 & 20 - C. Rochelle	NE 1/4 Sec 26 - State of Wyoming
	Remainder of Sec 26 - City of Rawlins

JOB NO. 1245.0140

REV	DATE	BY	DESCRIPTION

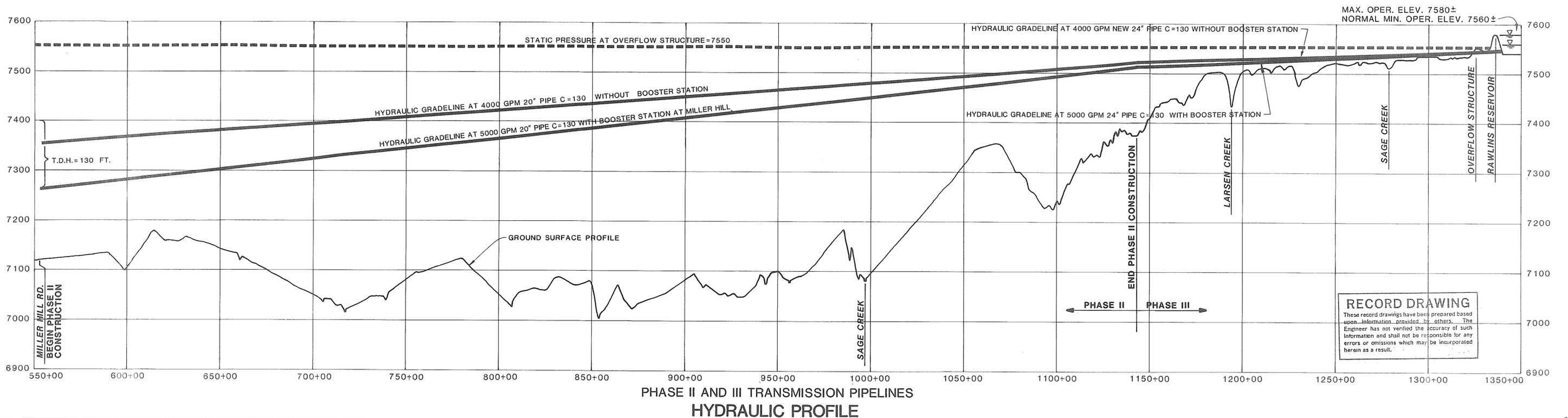
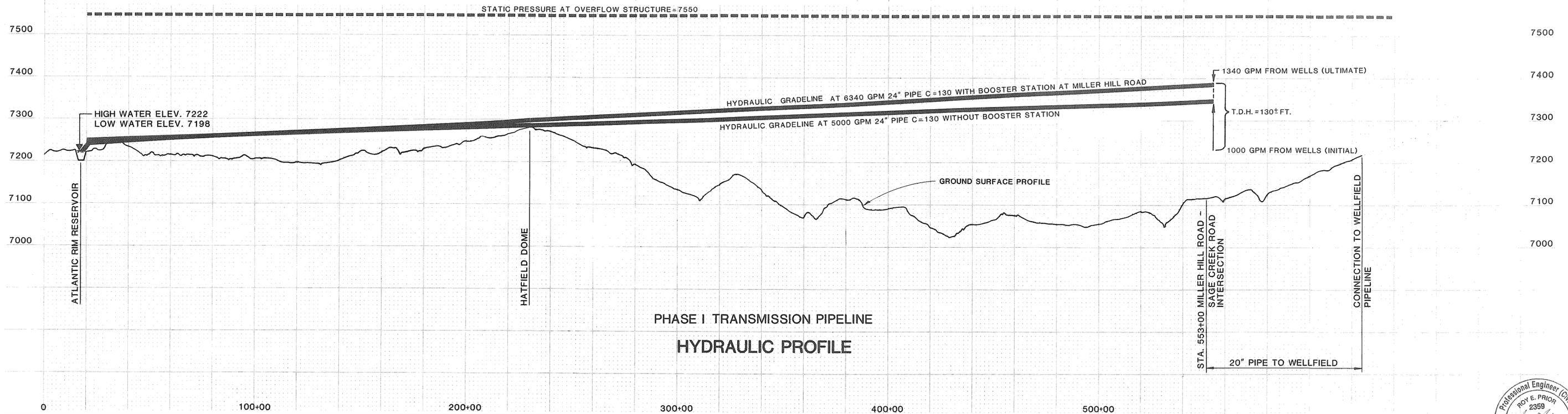
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	DRAWN: <i>T. Morad</i>	PROJECT ENGINEER: <i>Roy E. Prior</i>	R.C.E. NO.	DATE
	CHECKED: <i>RE Prior</i>	RECOMMENDED: <i>James M. Montgomery</i>	2482	12-1-88
		JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.	R.C.E. NO.	DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

APPROVED: *David C. Clark* 12-2-88 DATE

APPROVED: *James M. Montgomery* 12-2-88 DATE

CITY OF RAWLINS, WYOMING	
SAGE CREEK TRANSMISSION PIPELINE - PHASE III	
LOCATION MAP, VICINITY MAP, LIST OF DRAWINGS, SYMBOLS, ABBREVIATIONS AND GENERAL NOTES	



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JOB NO 1245.0140

REV	DATE	BY	DESCRIPTION

SCALE:
AS SHOWN

DESIGNED *A.L. Halvorsen*
 DRAWN *T. Ward, P. Gray*
 CHECKED *R.E. Prior*

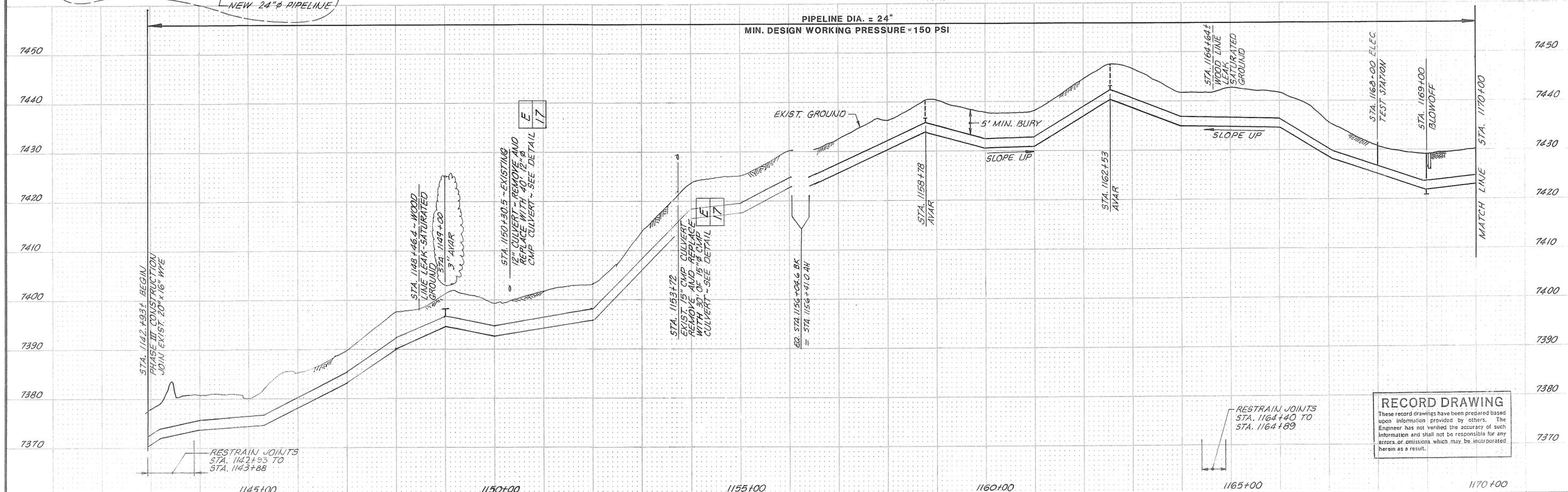
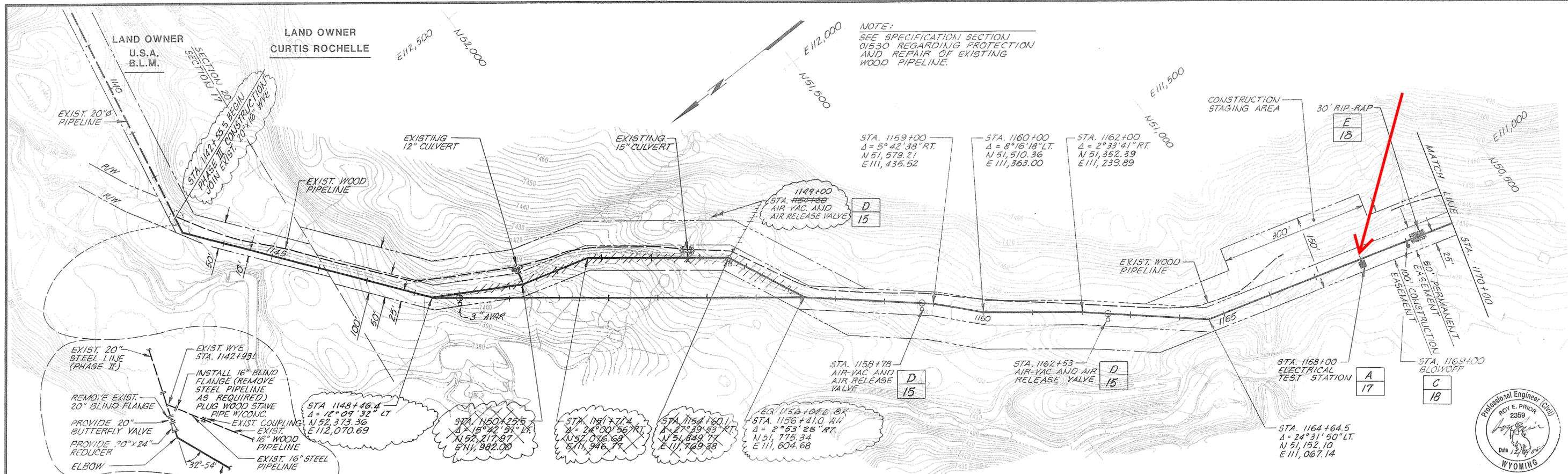
SUBMITTED
 PROJECT ENGINEER *Roy E. Prior* 2359 12-1-88
 R.C.E. NO. DATE
 RECOMMENDED
James M. Montgomery
 JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 2487 12-1-88
 R.C.E. NO. DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

APPROVED
David C. Clark 12-2-88
 DATE
 APPROVED
R. Swann & Son 12-2-88
 DATE

CITY OF RAWLINS, WYOMING
 SAGE CREEK TRANSMISSION PIPELINE - PHASE III
 HYDRAULIC PROFILE

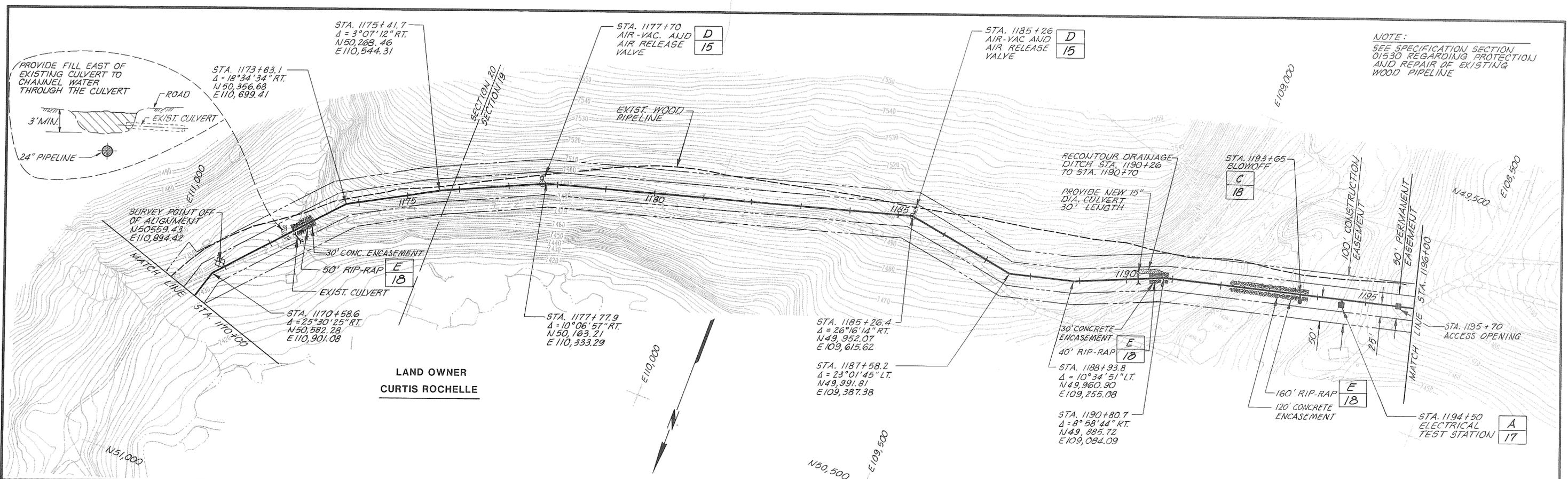
SHEET
3
 OF 20 SHEETS



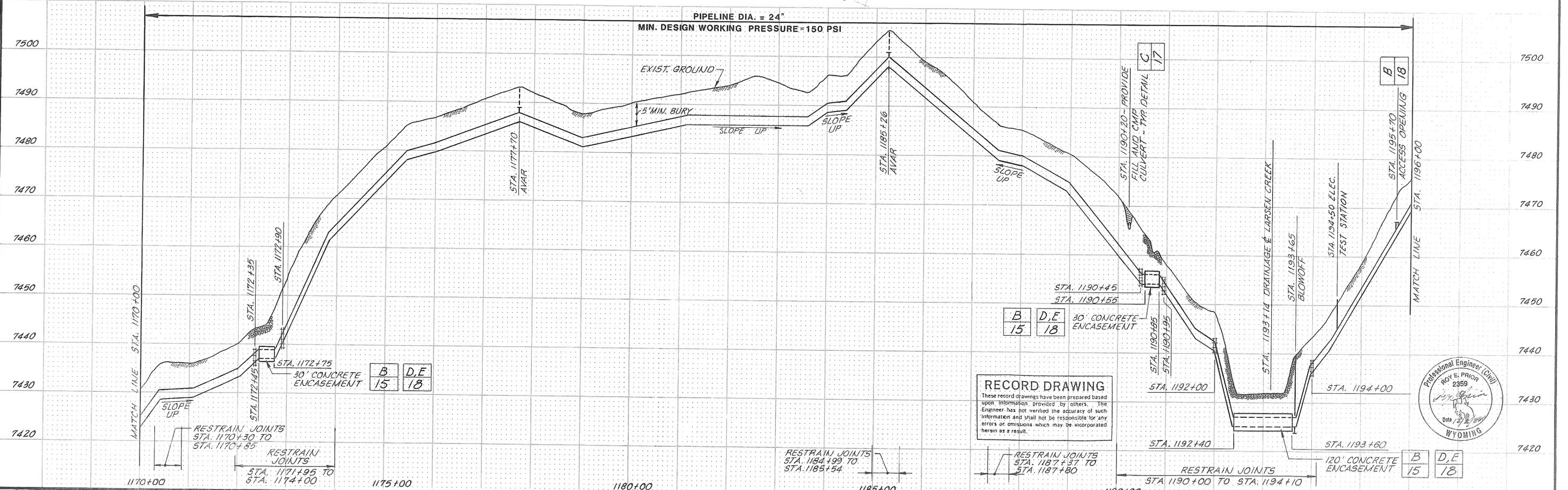
SCALE: HORZ: 1" = 100' VERT: 1" = 10'		DESIGNED: <i>KL Halvorsen</i> DRAWN: <i>A. Triand</i> CHECKED: <i>P.E. Prior</i>	SUBMITTED: <i>Roy E. Prior</i> PROJECT ENGINEER R.C.E. NO. 2359 DATE 12-1-98	RECOMMENDED: <i>James M. Montgomery</i> PROJECT ENGINEER R.C.E. NO. 2492 DATE 12-1-98	JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 	APPROVED: <i>David C. Reed</i> DATE 12-2-98	APPROVED: <i>Duane L. Davenport</i> DATE 12-2-98	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1142+93± TO STA. 1170+00	SHEET 4 OF 20 SHEETS
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JOB NO. 1245.0140 FILE CC 10 81



NOTE:
SEE SPECIFICATION SECTION
01530 REGARDING PROTECTION
AND REPAIR OF EXISTING
WOOD PIPELINE



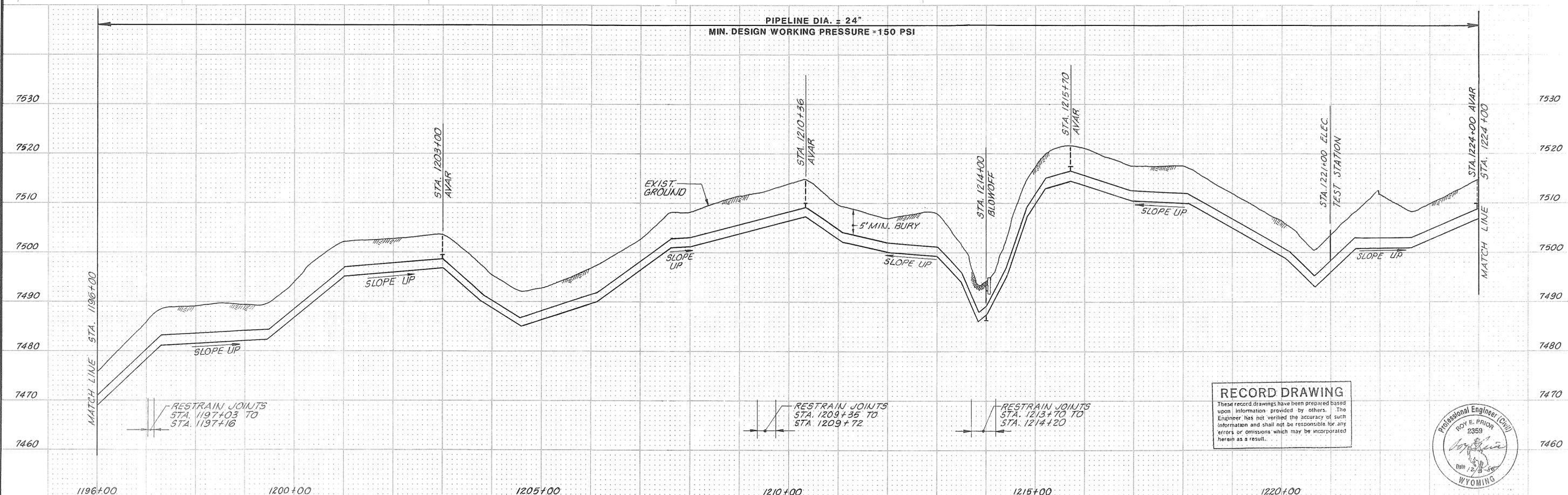
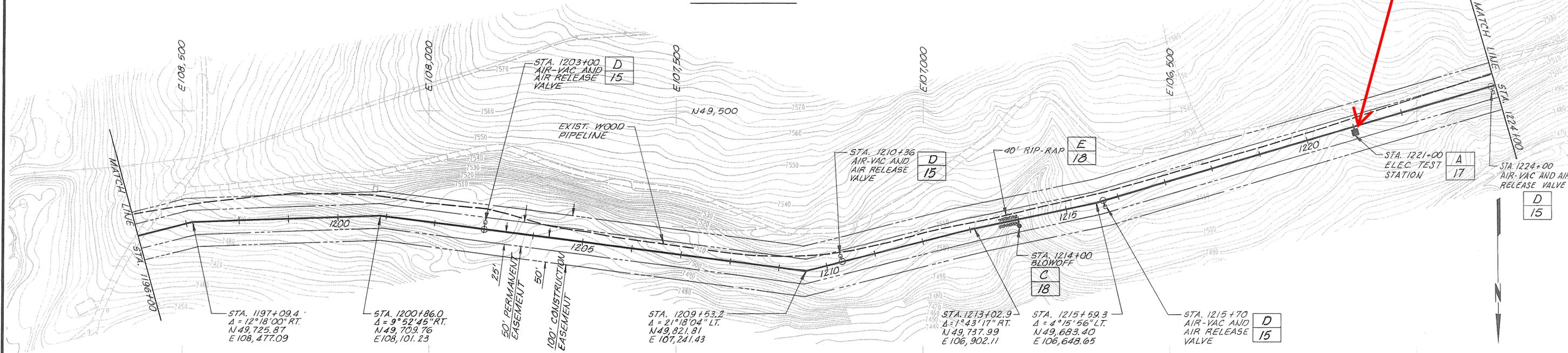
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SCALE: HORZ: 1" = 100' VERT: 1" = 10'		DESIGNED: <i>KL Halvorsen</i> DRAWN: <i>S. Tavares</i> CHECKED: <i>RE Prior</i>	SUBMITTED: <i>Roy E. Prior</i> PROJECT ENGINEER: <i>Roy E. Prior</i> RECOMMENDED: <i>James M. Montgomery</i> JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.	2359 R.C.E. NO. 12-1-88 DATE	2482 R.C.E. NO. 12-1-88 DATE	APPROVED: <i>David C. Clark</i> DATE: 12-2-88	APPROVED: <i>Dwaine L. Davenport</i> DATE: 12-2-88	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1170+00 TO STA. 1196+00	SHEET 5 OF 20 SHEETS
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NOTE:
SEE SPECIFICATION SECTION
01530 REGARDING PROTECTION
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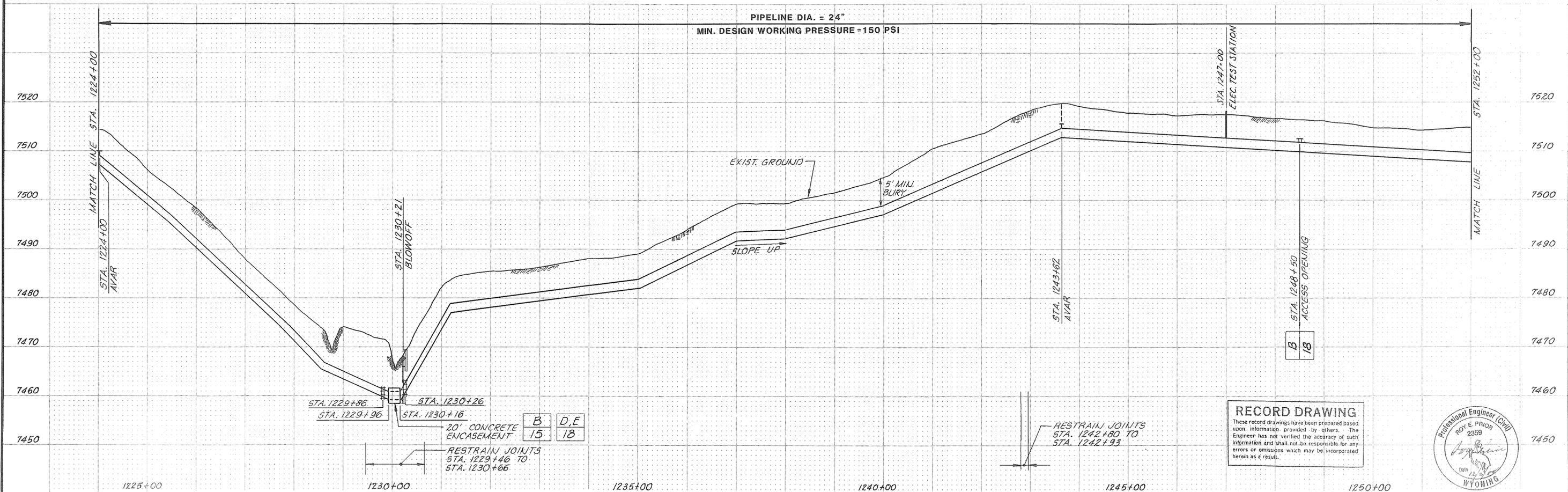
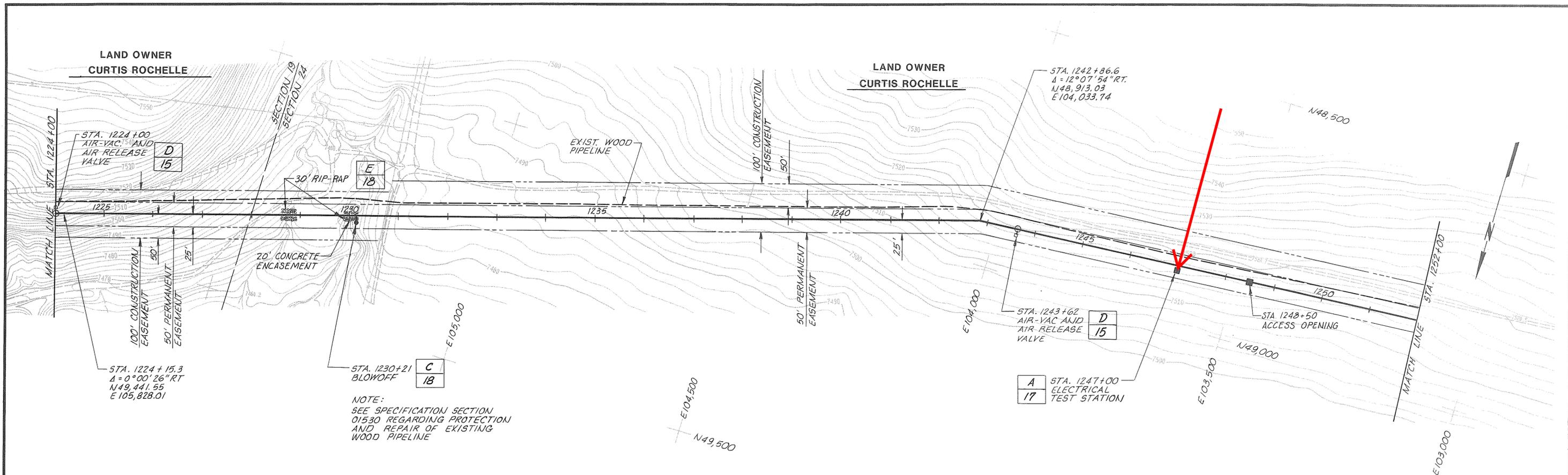
LAND OWNER
CURTIS ROCHELLE



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SCALE: HORZ: 1" = 100' VERT: 1" = 10'		DESIGNED: <i>KL Halvorsen</i> DRAWN: <i>J. Howard</i> CHECKED: <i>BE Prior</i>	SUBMITTED: <i>Roy E. Prior</i> PROJECT ENGINEER 2359 R.C.E. NO. 12-1-88 DATE	RECOMMENDED: <i>James M. Montgomery</i> JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 2482 R.C.E. NO. 12-1-88 DATE	APPROVED: <i>David C. Clark</i> 12-2-88 DATE	APPROVED: <i>Deana L. Davenport</i> 12-2-88 DATE	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1224+00 TO STA. 1252+00	SHEET 7 OF 20 SHEETS
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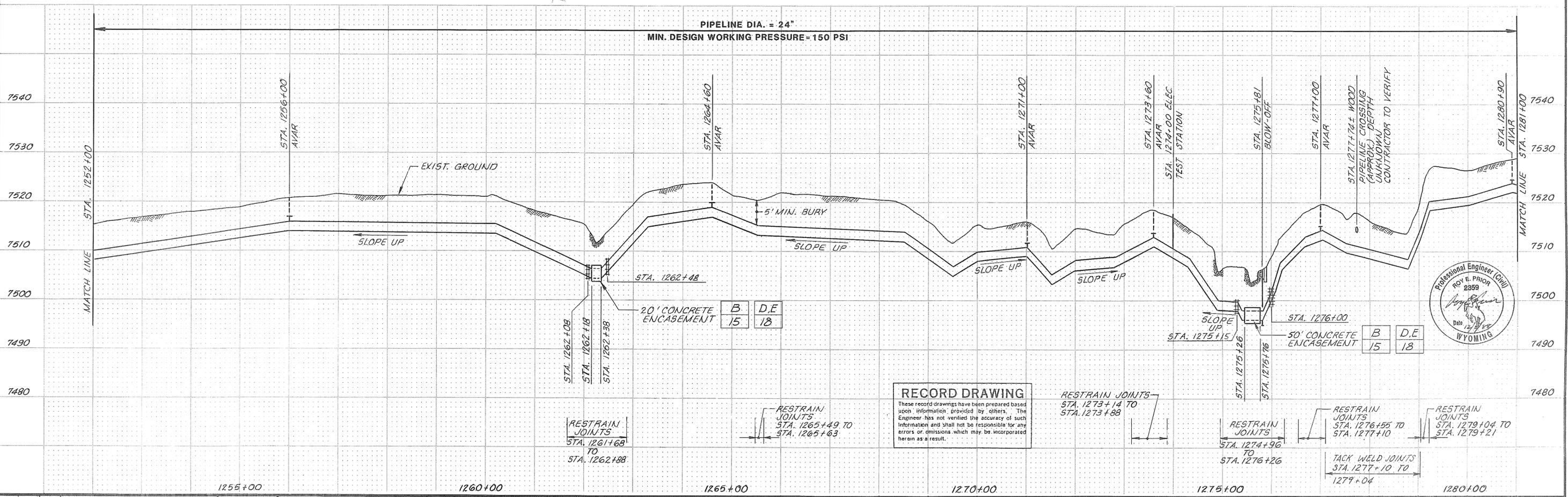
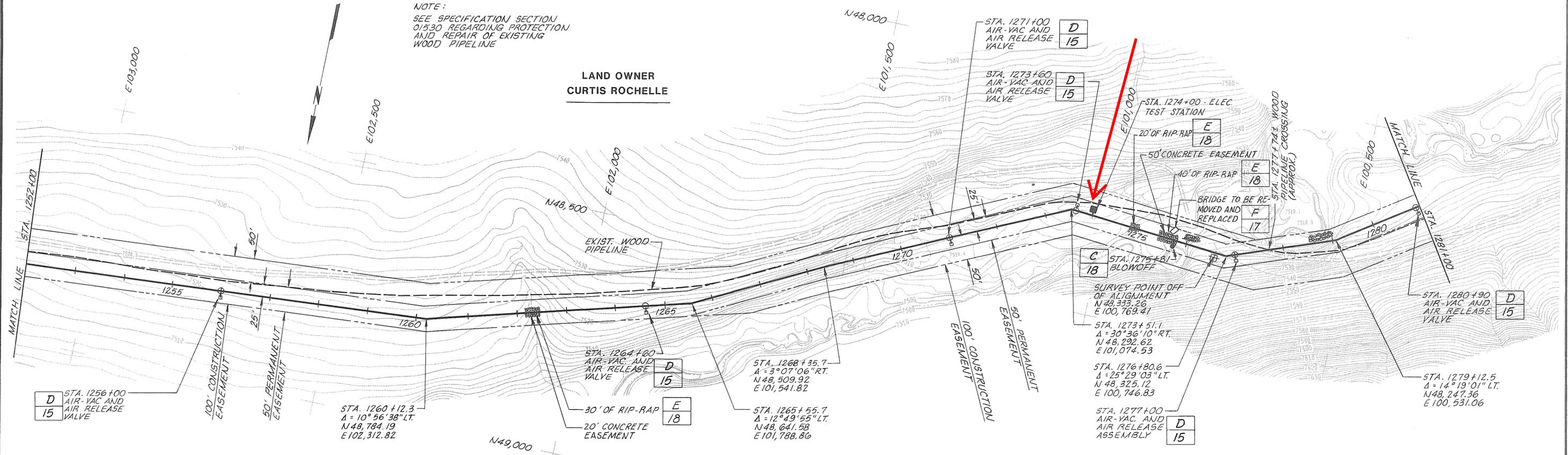
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JOB NO. 12-2-88-01 FILE CC 10-81

NOTE:
SEE SPECIFICATION SECTION
01530 REGARDING PROTECTION
AND REPAIR OF EXISTING
WOOD PIPELINE

LAND OWNER
CURTIS ROCHELLE

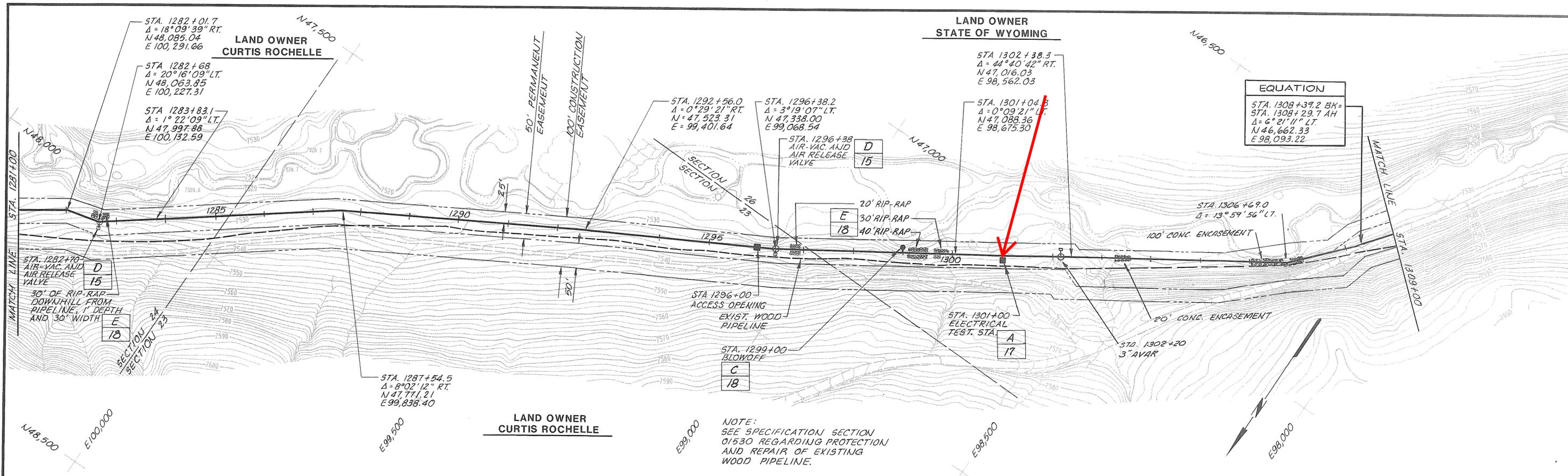


SCALE: HORZ: 1" = 100' VERT: 1" = 10'		DESIGNED: <i>KL Halvorsen</i> DRAWN: <i>J. Maxrad</i> CHECKED: <i>RE Prior</i>	SUBMITTED PROJECT ENGINEER: <i>Ray E. Prior</i> R.C.E. NO. 2859 DATE 12-1-88	RECOMMENDED PROJECT ENGINEER: <i>James M. Montgomery</i> R.C.E. NO. 2482 DATE 12-1-88	JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 	APPROVED: <i>David C. Clark</i> DATE 12-2-88	APPROVED: <i>Deane L. Davenport</i> DATE 12-2-88	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1252+00 TO STA. 1281+00	SHEET 8 OF 20 SHEETS
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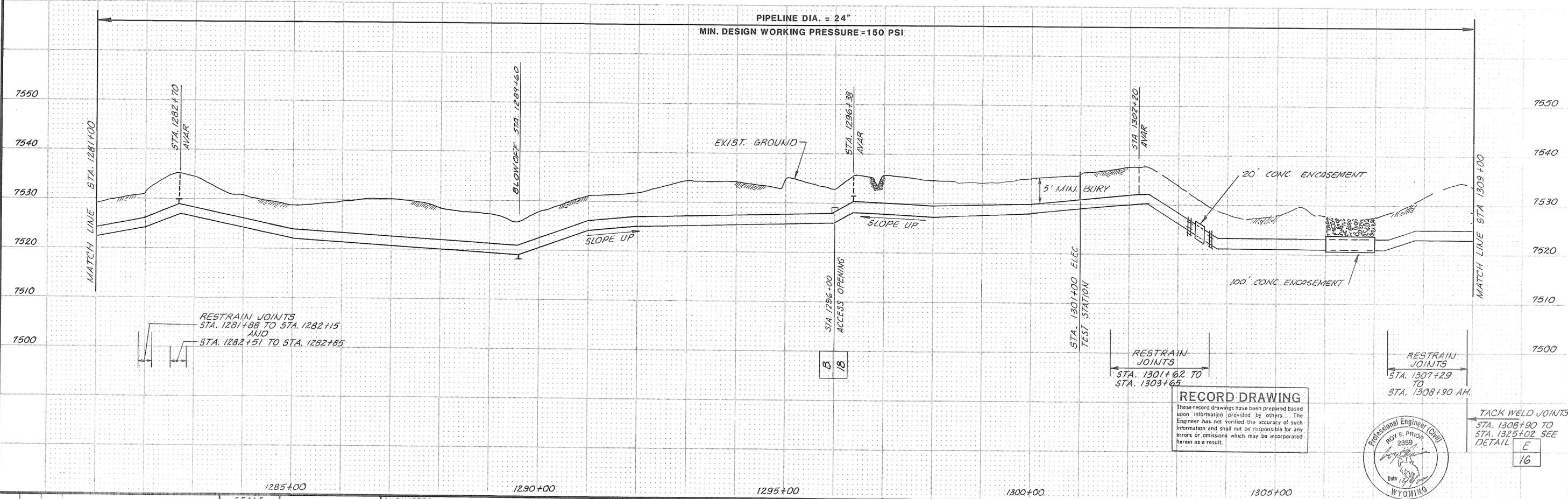
JOB NO. 1245.0140. FILE CC 10-81



EQUATION

STA. 1308+39.2 BK-
 STA. 1308+29.7 AH
 $\Delta = 6^{\circ} 21' 11''$ LT.
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 E 98,093.22

NOTE:
 SEE SPECIFICATION SECTION
 01530 REGARDING PROTECTION
 AND REPAIR OF EXISTING
 WOOD PIPELINE.



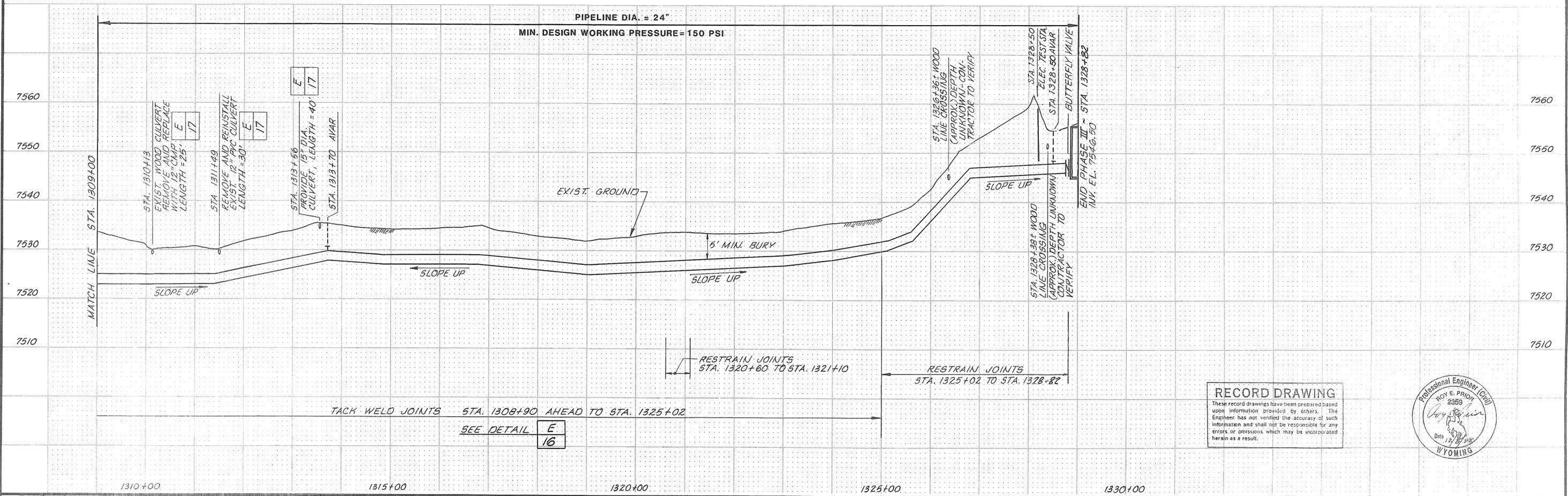
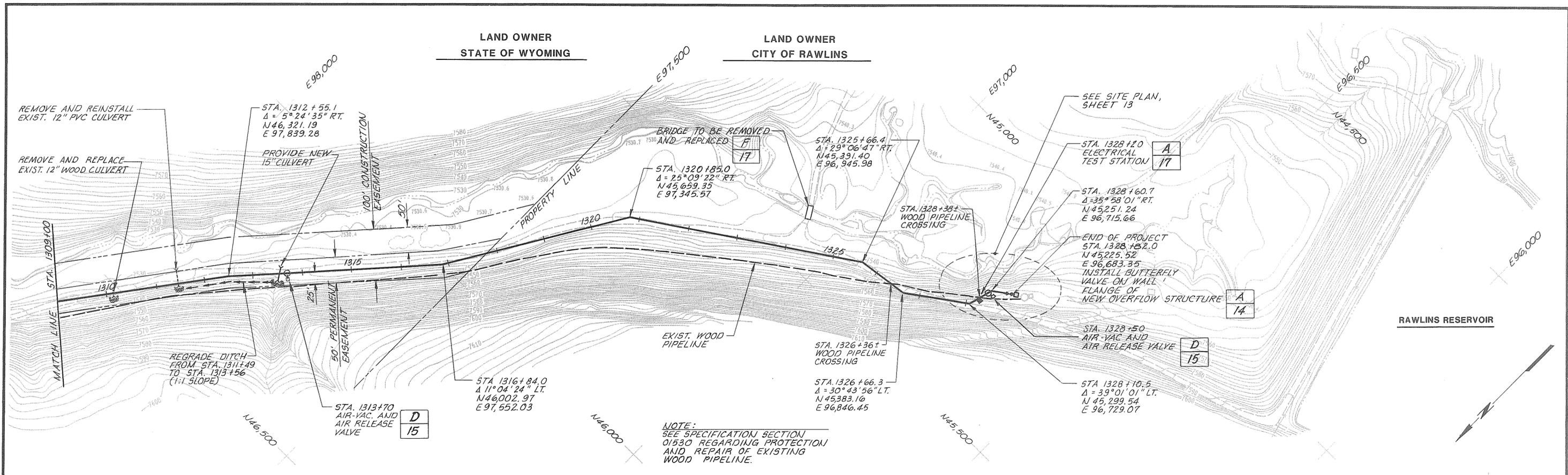
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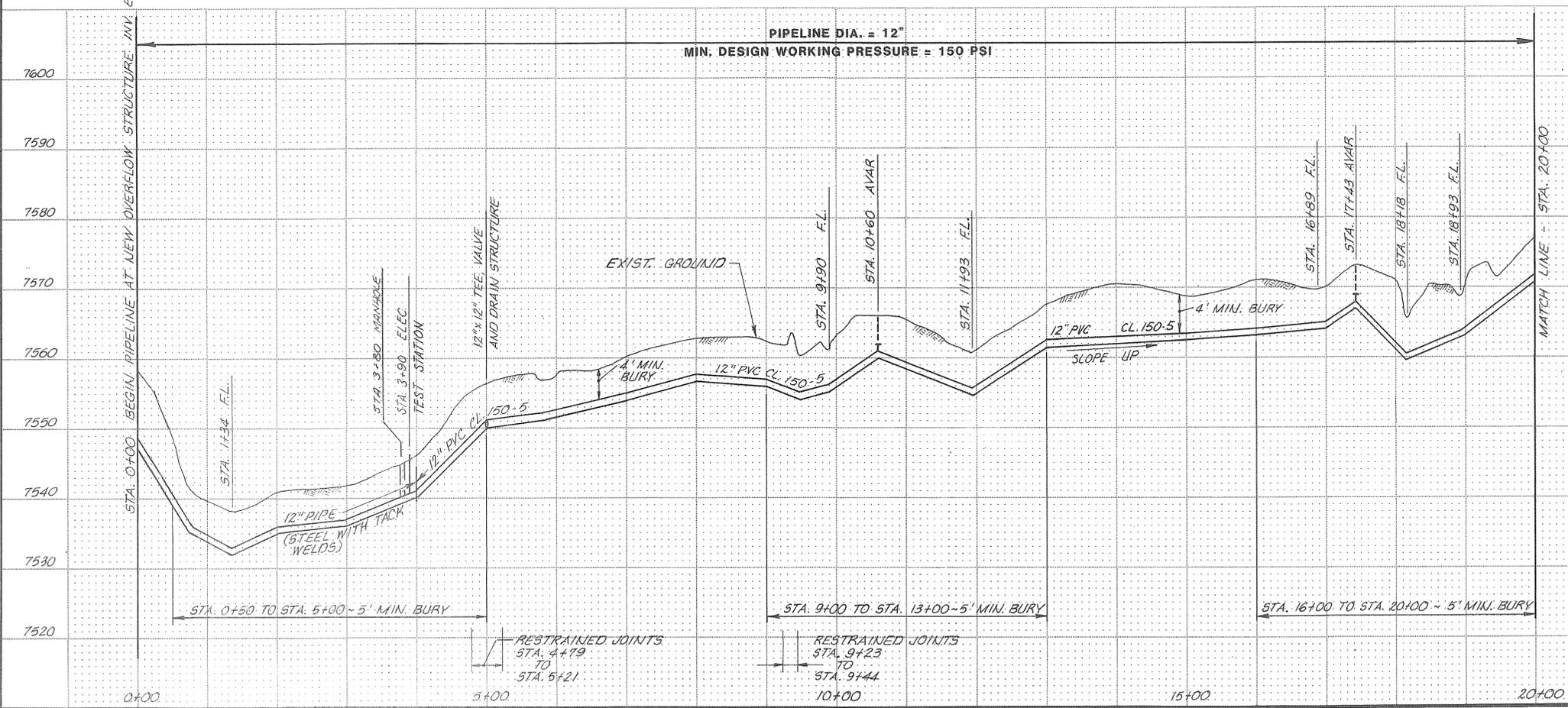
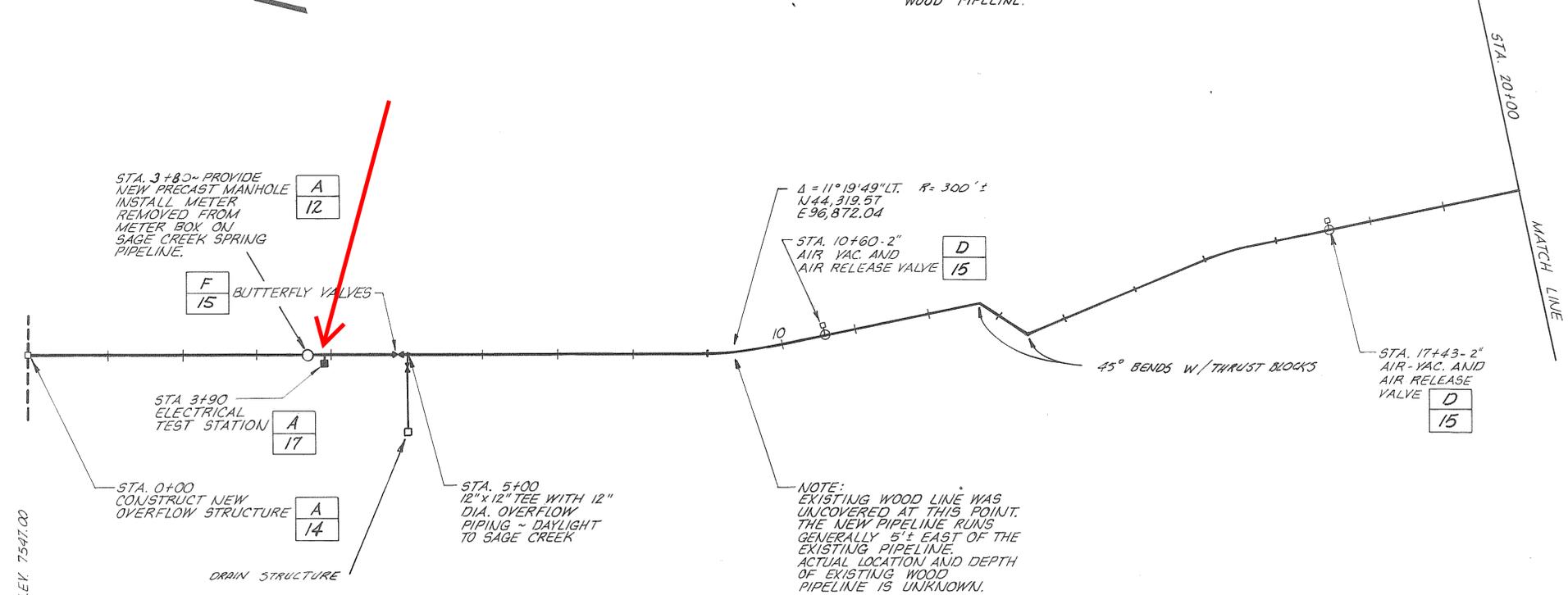
SCALE: HORIZ: 1" = 100' VERT: 1" = 10'		DESIGNED <i>KL Hanverson</i> DRAWN <i>KL Hanverson</i> CHECKED <i>RE Prior</i>	SUBMITTED <i>Roy E. Prior</i> PROJECT ENGINEER 2359 R.C.E. NO. 12-1-88 DATE	RECOMMENDED <i>James M. Montgomery</i> CONSULTING ENGINEERS, INC. 2482 R.C.E. NO. 12-1-88 DATE	APPROVED <i>David C. Clark</i> 12-2-88 DATE	APPROVED <i>Dwaine R. Waverford</i> 12-2-88 DATE	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1281+00 TO STA. 1309+00	SHEET 9 OF 20 SHEETS
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JOB NO. 1282-CJW
 FILE
 CC 10-81

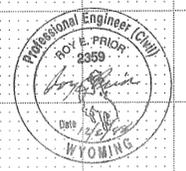


SCALE: HORZ: 1" = 100' VERT: 1" = 10'	DESIGNED: <i>KL Halvorsen</i> DRAWN: <i>J. Navad</i> CHECKED: <i>RE Prior</i>	SUBMITTED <i>Roy E. Prior</i> PROJECT ENGINEER 2359 R.C.E. NO. 12-1-88 DATE	RECOMMENDED <i>James M. Montgomery</i> JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. 2482 R.C.E. NO. 12-1-88 DATE	APPROVED <i>David C. Crowl</i> 12-2-88 DATE	APPROVED <i>Deane L. Davenport</i> 12-2-88 DATE	CITY OF RAWLINS, WYOMING SAGE CREEK TRANSMISSION PIPELINE - PHASE III PIPELINE - PLAN AND PROFILE STA. 1309+00 TO STA. 1329+02	SHEET 10 OF 20 SHEETS
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NOTE:
SEE SPECIFICATION SECTION
01530 REGARDING PROTECTION
AND REPAIR OF EXISTING
WOOD PIPELINE.



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REV	DATE	BY	DESCRIPTION

SCALE:
HORIZ. 1"=100
VERT. 1"=10

DESIGNED *K. H. Vorseen*
DRAWN *S. Harvad*
CHECKED *BE Prior*

SUBMITTED
James M. Montgomery
PROJECT ENGINEER
2157 R.C.E. NO. 12-1-88 DATE

RECOMMENDED
James M. Montgomery
JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.
2482 R.C.E. NO. 12-1-88 DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

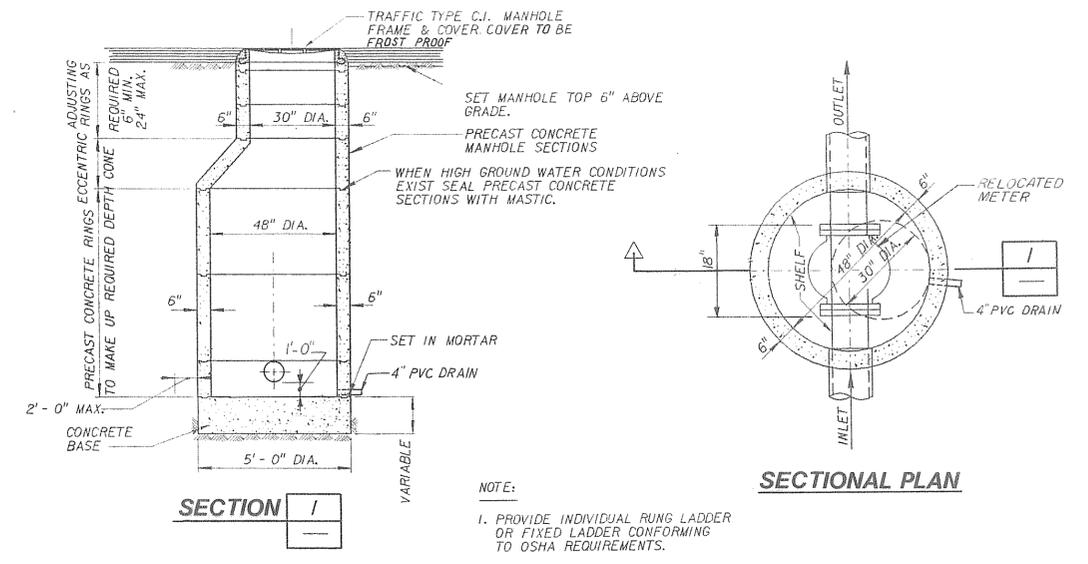
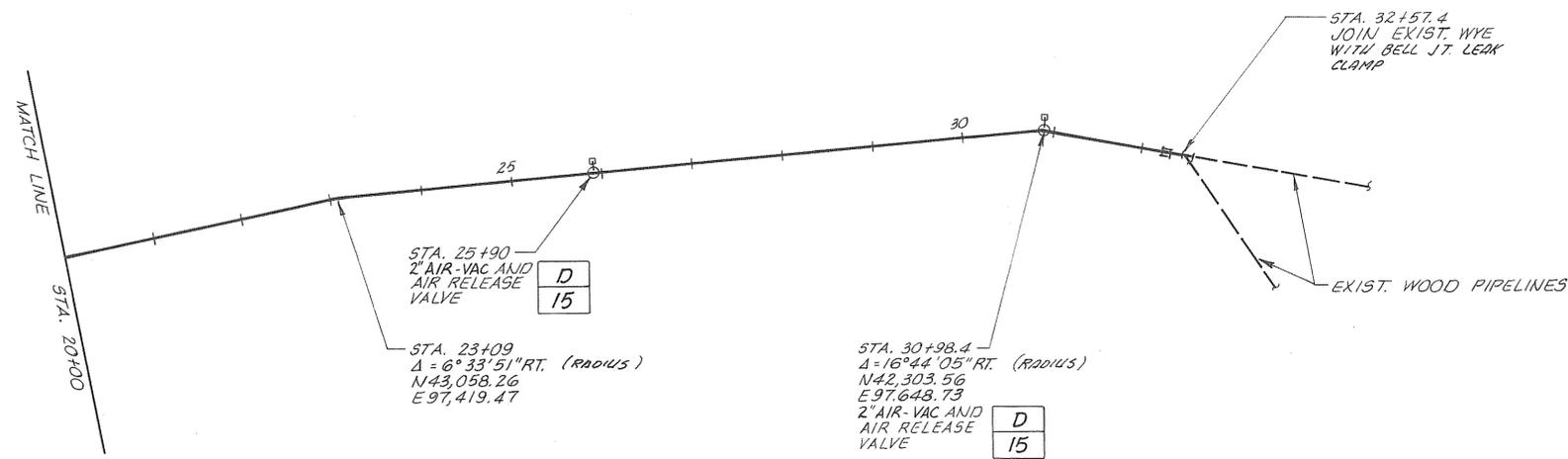
APPROVED
David C. Clark
12-2-88 DATE

APPROVED
James L. Davenport
12-2-88 DATE

CITY OF RAWLINS, WYOMING
BEAVER CREEK SPRING PIPELINE
PIPELINE - PLAN AND PROFILE
STA. 0+00 TO STA. 20+00

SHEET
11
OF 20 SHEETS

JOB NO. 1245.0140 FILE CG 10-81



APPROVED: **STANDARD MANHOLE WITH ECCENTRIC CONE** A
NOT TO SCALE REV. 051588 11



RECORD DRAWING
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SCALE: HORIZ. 1"=100' VERT. 1"=10'		DESIGNED <u>KL HANVORSEN</u> PROJECT ENGINEER DRAWN <u>T. HANAD</u> CHECKED <u>RE Prior</u>	SUBMITTED <u>Roy E. Prior</u> 2359 12-1-88 PROJECT ENGINEER R.C.E. NO. DATE RECOMMENDED <u>James M. Montgomery</u> 2482 12-1-88 JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. R.C.E. NO. DATE	APPROVED <u>David C. Clark</u> 12-2-88 DATE APPROVED <u>Nancy L. Davenport</u> 12-2-88 DATE	CITY OF RAWLINS, WYOMING BEAVER CREEK SPRING PIPELINE PIPELINE - PLAN AND PROFILE STA. 20+00 TO STA. 32+57.4	SHEET 12 OF 20 SHEETS
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JOB NO. 1245.0140 FILE CC 10-81

NOTES

DEMOLITION

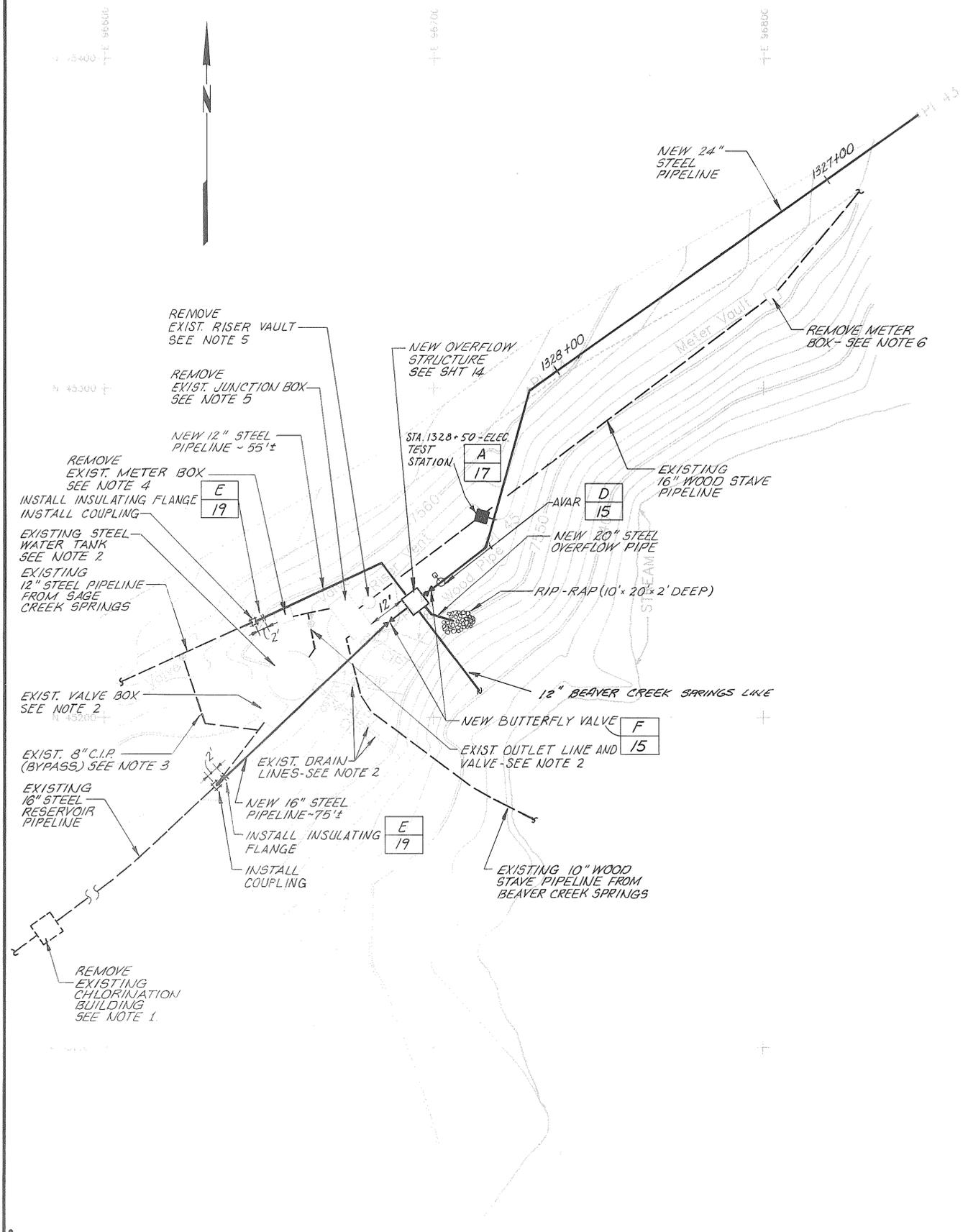
1. Chlorination building on 16 inch reservoir line. Remove structure including concrete floor and slab outside of building. The concrete walls and footers below grade shall remain in place. The existing 13 inch diameter plate on the meter opening shall be replaced with a new plate with a minimum thickness of 1/2 inch. Furnish and install a new valve box on the existing valve (approximately 58 inches to surface). Backfill the inside of the remaining structure with select bedding and encasement around the rest of the structure. Restore and reseed the disturbed area.
2. Remove and dispose of the steel water tank including the foundation, adjacent control structure (valve box), tank drain lines (2, 6, and 12 inch) and the 12 inch outlet line and valve.
3. Abandon 8 inch bypass line. Close, plug, block and remove the valve box at the existing valve near the spring line. Plug both ends of abandoned line.
4. Remove and dispose of meter box on the Sage Creek spring line. Remove the existing meter and reinstall it in the new manhole on the Beaver Creek spring line.
5. Remove and dispose of junction box and adjacent riser vault including existing drain lines. Plug the end of the wood line being abandoned.
6. Remove and dispose of meter vault down stream of junction box on existing wood pipeline. The meter is to be salvaged and delivered to the City's water treatment plant.
7. All disturbed areas are to be backfilled, restored and reseeded.

NEW SITE WORK

1. Overflow Structure - see detail on Sheet 14.
2. New 24 inch pipeline with valve and AVAR downstream of overflow structure.
3. New Beaver Creek spring line.
4. New connections to new overflow structure from reservoir (16 inch steel) and Sage Creek springs (12 inch steel) including a new 16 inch butterfly valve on the reservoir pipeline. Insulating couplings are to be installed between the new and existing pipelines. Butterfly valve not to be wafer type.
5. The wood stave line is to be supported at points where the new line crosses the existing wood line. The wood line is to remain in service during construction of the overflow structure and until all of the lines have been connected to the structure.
6. Water service to the Rawlins Water Treatment Plant cannot be disrupted for more than 24 hours at any one time. Periods for which disruption of water service are to occur must be coordinated with and approved by the City of Rawlins prior to shutting off service.
7. New precast manhole on the Beaver Creek line with the meter from the Sage Creek line reinstalled.
8. New rip-rap at overflow pipe.

EXISTING TOP OF PIPE (APPROXIMATE)

1. Sage Creek Spring line at new insulating coupling = 7,557 ft..
2. Sage Creek Spring line at existing junction box = 7,553 ft..
3. Reservoir line at new insulating coupling = 7,553 ft..



RECORD DRAWING

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JOB NO 1245.0140 FILE

REV	DATE	BY	DESCRIPTION

SCALE:
1" = 20'

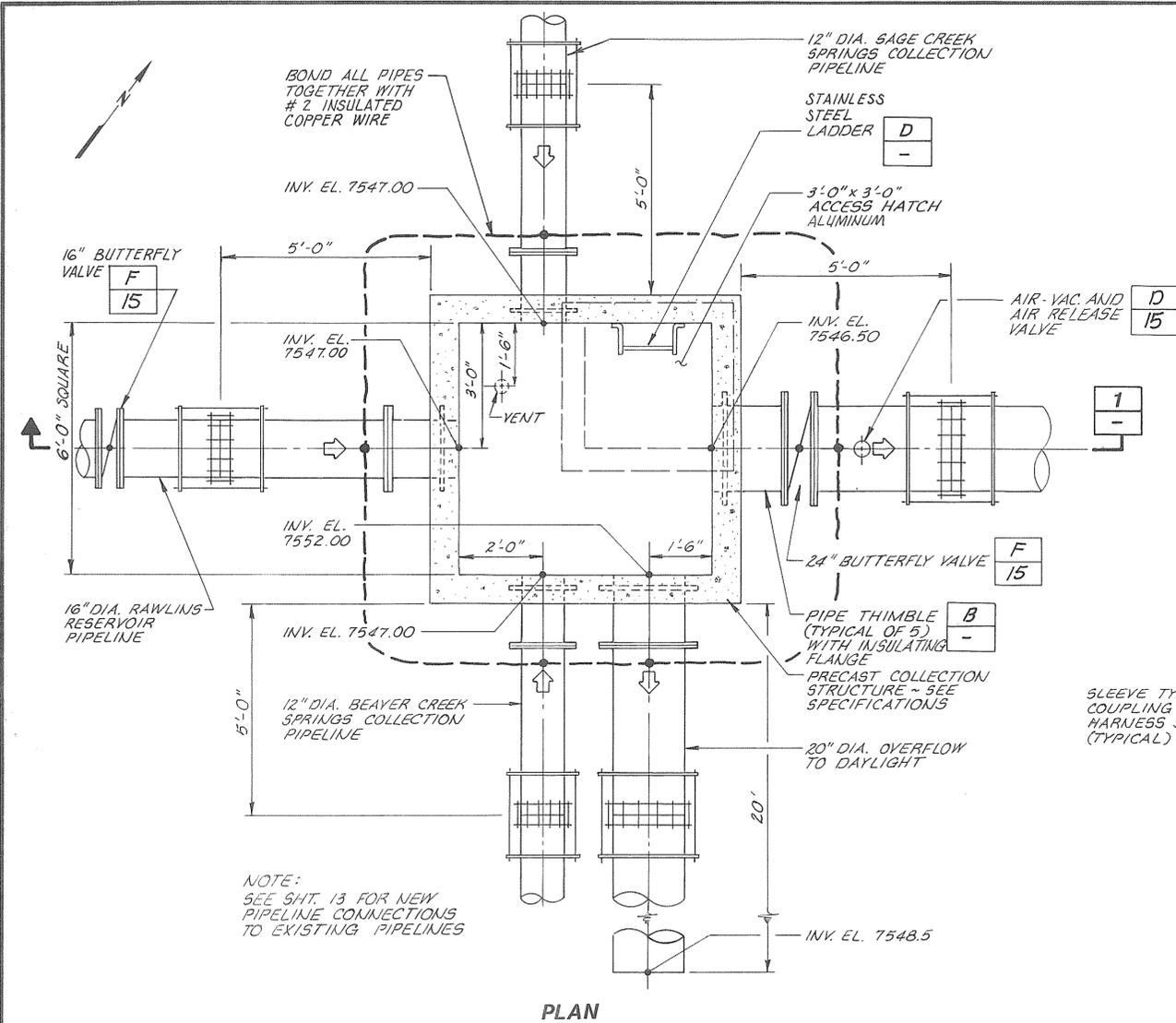
DESIGNED <i>K. Halverson</i>	SUBMITTED <i>James M. Montgomery</i>	2359	12-1-88
DRAWN <i>J. Harad</i>	PROJECT ENGINEER	R.C.E. NO.	DATE
CHECKED <i>RE Prior</i>	RECOMMENDED <i>Roy E. Prior</i>	2492	12-1-88
	JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.	R.C.E. NO.	DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

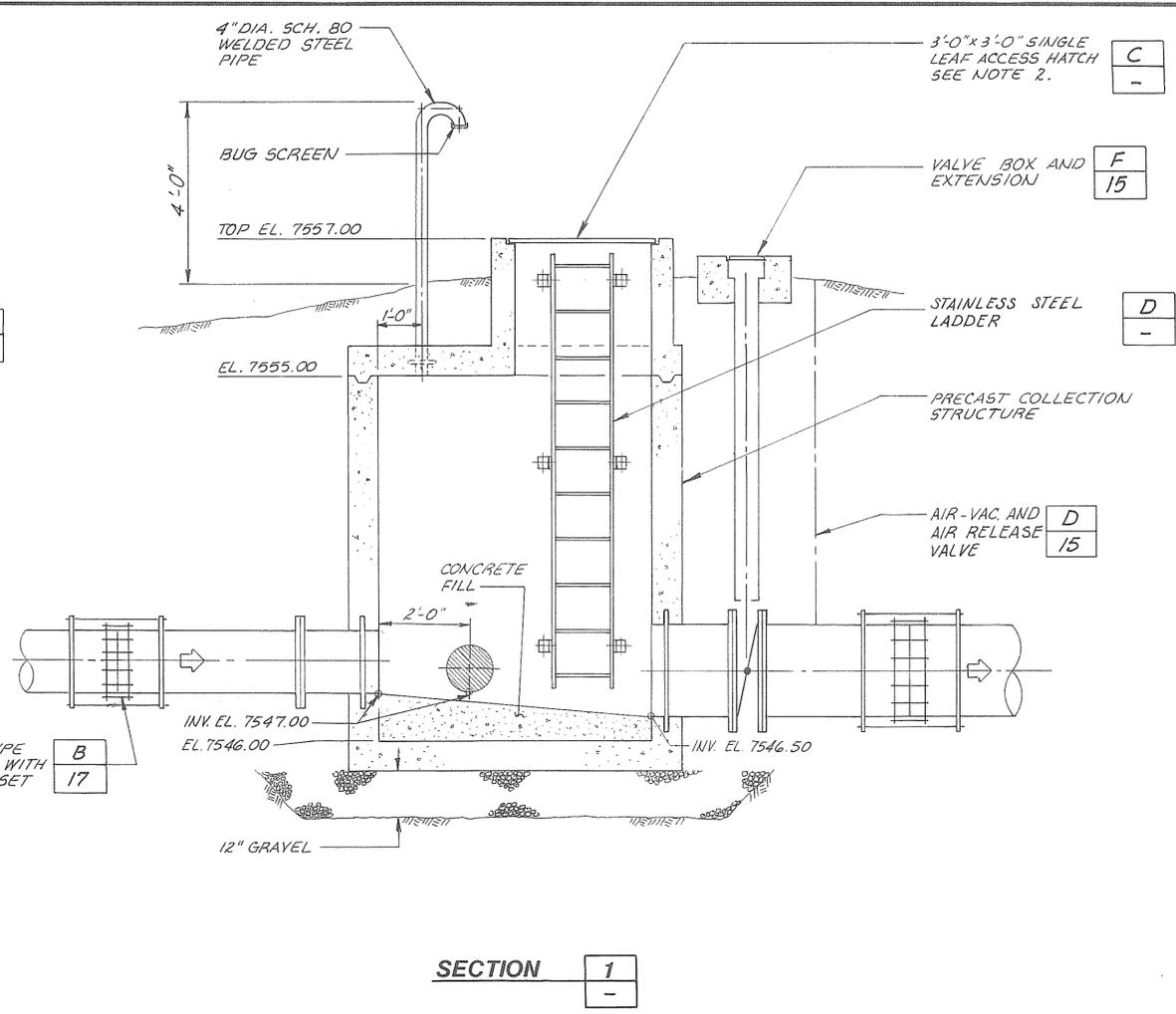
APPROVED <i>David C. Ward</i>	12-2-88
DATE	
APPROVED <i>Roy E. Prior</i>	12-2-88
DATE	

CITY OF RAWLINS, WYOMING
SAGE TRANSMISSION PIPELINE - PHASE III
OVERFLOW STRUCTURE SITE PLAN

SHEET
13
OF 20 SHEETS



PLAN



SECTION 1

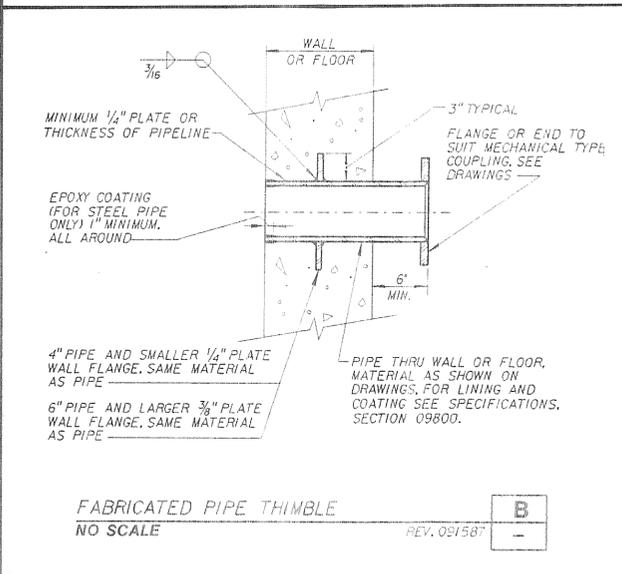
NOTES

1. OVERFLOW STRUCTURE BELOW ELEVATION 7554.0 SHALL BE MONOLITHIC.
2. PROVIDE SURFACE MOUNTED PADLOCK HASP.
3. PIPING AND EQUIPMENT SHALL BE COATED PER SPECIFICATION SECTION 09800.
4. ALL STRUCTURE PIPING AND PIPE THIMBLES SHALL BE FABRICATED STEEL.

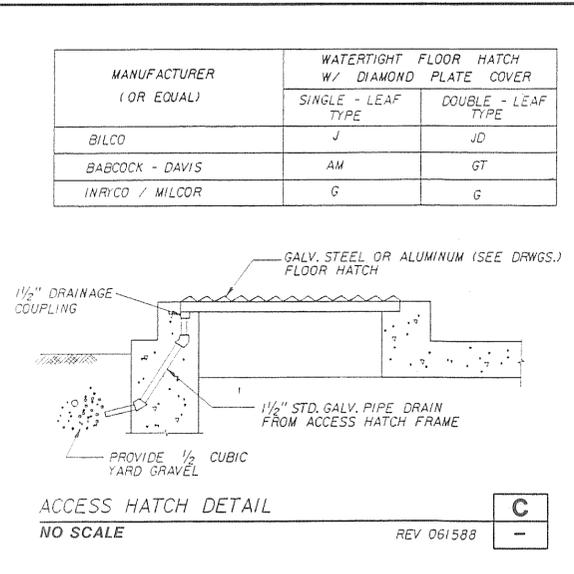
OVERFLOW STRUCTURE - DETAIL A
NO SCALE

RECORD DRAWING

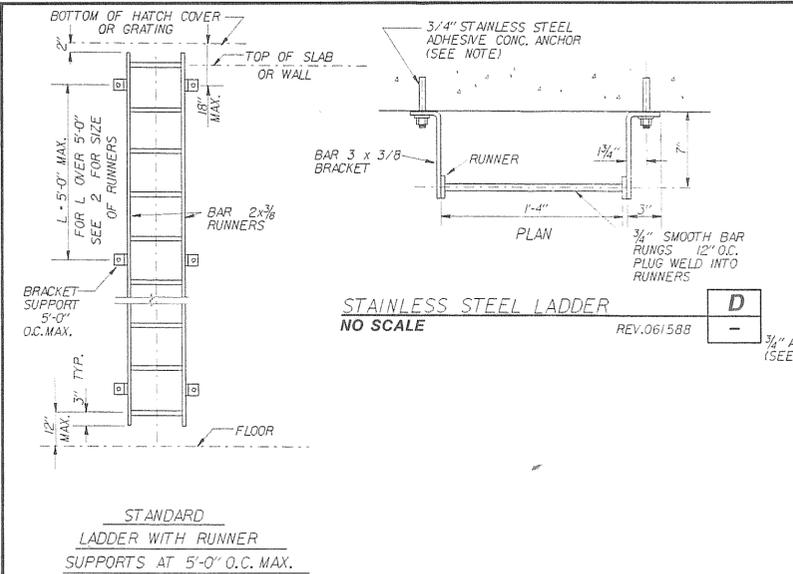
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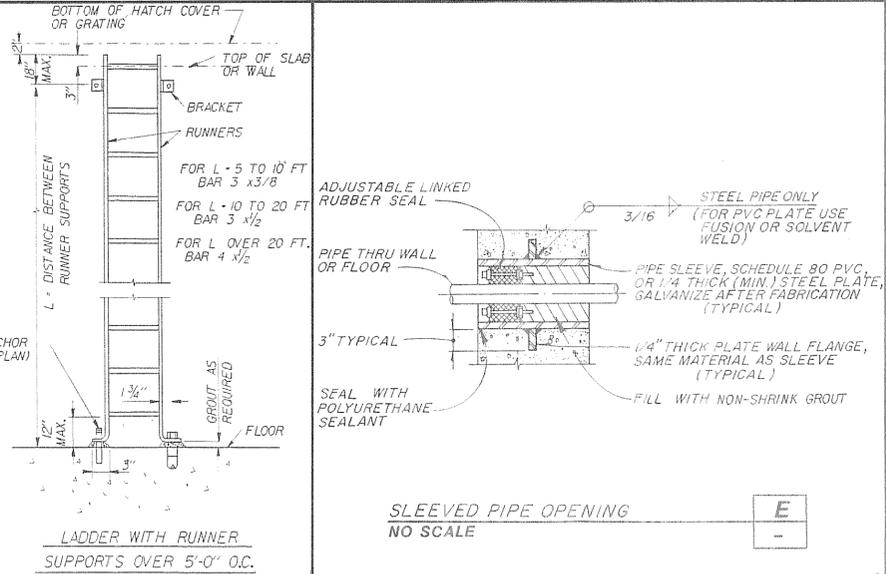
FABRICATED PIPE THIMBLE
NO SCALE



ACCESS HATCH DETAIL
NO SCALE



STAINLESS STEEL LADDER
NO SCALE



SLEEVED PIPE OPENING
NO SCALE

SCALE: 1/8" = 1'-0"

REV	DATE	BY	DESCRIPTION

DESIGNED <i>D. Hubbla</i>	SUBMITTED <i>Roy E. Prior</i>	2359	12-1-88
DRAWN <i>J. Navad</i>	PROJECT ENGINEER	R.C.E. NO.	DATE
CHECKED <i>Roy E. Prior</i>	RECOMMENDED <i>Dave Weller</i>	2482	12-1-88
	JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.	R.C.E. NO.	DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.

APPROVED <i>David C. Crad</i>	12-2-88
DATE	
APPROVED <i>Ruane L. Davenport</i>	12-2-88
DATE	

CITY OF RAWLINS, WYOMING	SHEET 14
SAGE CREEK TRANSMISSION PIPELINE - PHASE III	OF 20 SHEETS
OVERFLOW STRUCTURE PLAN, SECTION AND DETAILS	

FILE NO. 1245.0140