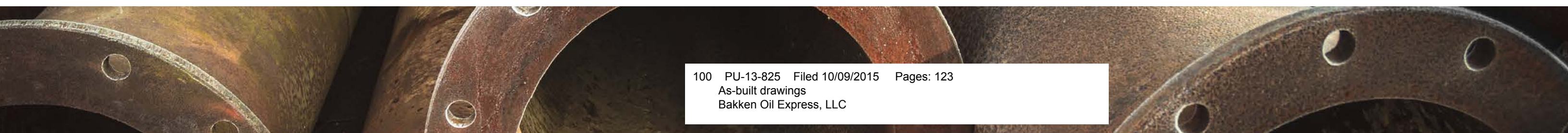




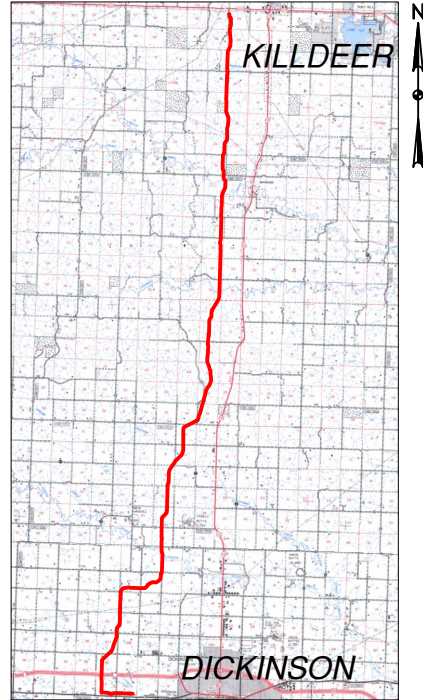
Bakken Oil Express

Pipeline Phase I

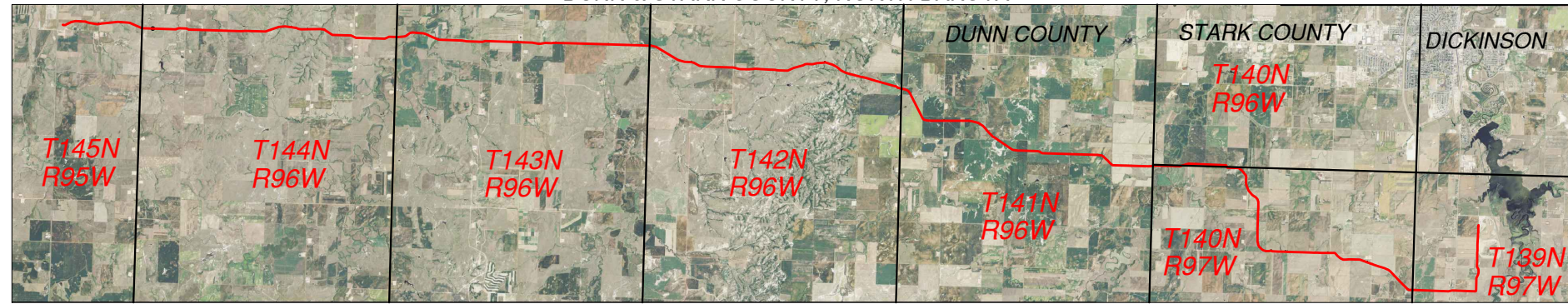
As-Constructed



Location Map



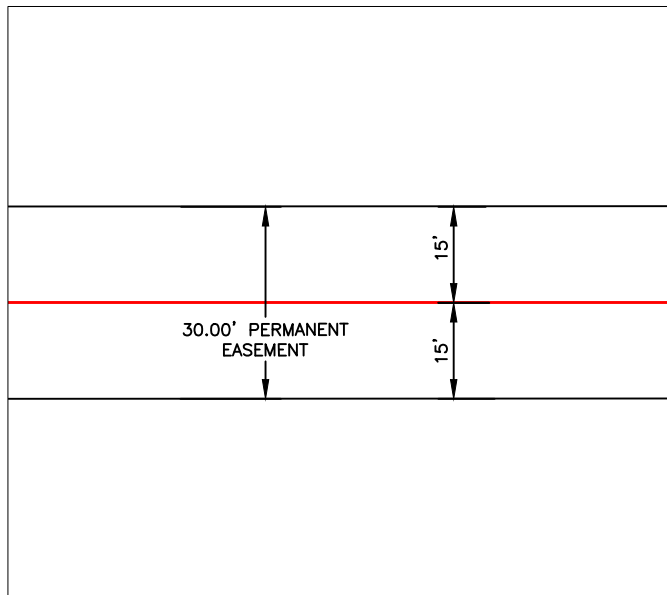
BOE PIPELINE PHASE I
AS-CONSTRUCTED ALIGNMENT SHEETS
DUNN & STARK COUNTY, NORTH DAKOTA



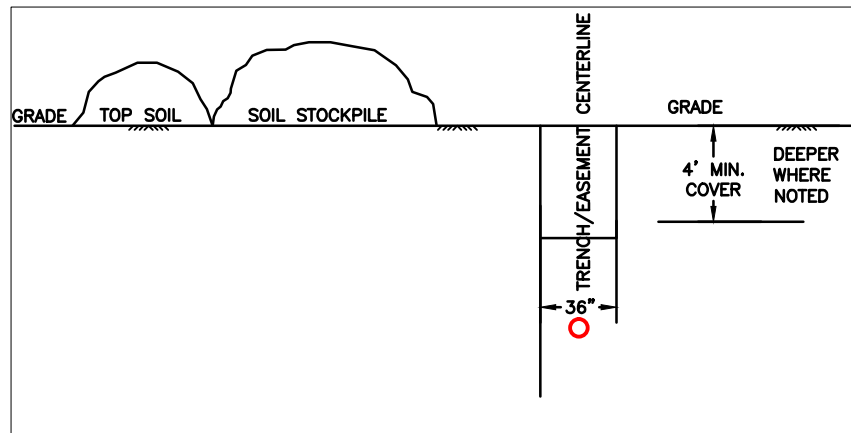
FINAL
6/11/15

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EASEMENT TRENCH PLAN VIEW
NTS



EASEMENT TRENCH PROFILE
NTS

AS-CONSTRUCTED



THIS DOCUMENT AND THE DATA AND INFORMATION UPON WHICH THIS DOCUMENT IS BASED IS THE PROPERTY OF, AND PROPRIETARY TO, THE OWNERS OF BOE PIPELINE, LLC AND NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE DUPLICATED, USED, OR DISCLOSED EXCEPT AS AUTHORIZED, BY SAID OWNERS OR THE OWNER'S AGENT.

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (2011), North Dakota South Zone, US Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000165099 to go from grid distance to ground distance.

LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	— AVOIDANCE AREA
- - - SECTION LINE	— FO — FIBER OPTIC COM. LINE	— WETLAND EASEMENT
- - - EASEMENT LINE	— RAILROAD	— TEST LEAD
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— VALVE SETTING
— WATER LINE	— UTILITY POLE	— AS-CONSTRUCTED BORE MARKER POST
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE MARKER POST	
— EXISTING ROAD		
— UNDERGROUND COM. LINE		



MATERIAL SUMMARY			REFERENCE DRAWINGS		
MK.NO.	QTY.	DESCRIPTION	MK.NO.	DWG. NO.	DESCRIPTION
1	165,618'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE	V1	95	16" VALVE SETTING W/ FUTURE, DETAIL "A"
2	20,121'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	V2	98	16" VALVE SETTING, DETAIL "B"
3	21,188'	20" OD, 0.375" W.T. API 5L X60, 13-15 MIL FBE	V3	104	16" RISER, DETAIL "C"
4	2,747'	20" OD, 0.375" W.T. API 5L X65, 13-15 MIL FBE, 30-35 MIL ARO	V4	105	20"X16" TRUE OIL VALVE SETTING, DETAIL "D"
T1	30	TYPE-1 TEST LEAD	V5	107	20" VALVE SETTING, DETAIL "E"
			V6	110	20" RISER, DETAIL "F"

REVISIONS		
NO.	DATE	DESCRIPTION
0	6/11/15	AS-CONSTRUCTED

SCALE: 1:20000
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 1

BOE PIPELINE, LLC
BOE PIPELINE, LLC
BOE PIPELINE PHASE I
INDEX SHEET
DUNN & STARK COUNTY, NORTH DAKOTA

KLJ
4585 Coleman Street
Bismarck, ND 58502
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BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA

SPECIFIC LANDOWNER'S STIPULATIONS		
NAME	LEGALS	COMMENTS
MANLEY TRUCHAN	E1/2W1/2 & W1/2W1/2 LESS 4.02 ACRES & LESS 18.77 ACRES TRACT 28-145-95, NW1/4 & SW1/4 33-145-95	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 701-764-5943 HOME. 701-260-2221 CELL.
ALVIN SADOWSKY	S1/2NW1/4, LOTS 3 & 4 & SW1/4 1-144-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. NO ABOVE GROUND STRUCTURES. SEED WITH WESTERN WHEAT GRASS AND GREEN NEEDLE, 3 LBS. PER ACRE MIXED WITH ALFALFA AND CLOVER. SINGLE PIPELINE ONLY. 701-764-5903 HOME. 701-590-9568 CELL.
TOBIAS & PEGGY SUE STROH	NW1/4 LESS 9.50 ACRES, N1/2SW1/4, SW1/4SW1/4 LESS 0.97 ACRES 12-144-96	CONTACT BEFORE STARTUP, AND WITH ANY ISSUES THAT MAY ARISE. 4" ROCK, NOXIOUS WEED CONTROL, ACCESS LIMITED TO EASEMENT ONLY UNLESS APPROVED BY OWNER. RESEEDING TO BE 2.5 LB. OF PURE LIVE SEED, PER ACRE OF EACH WESTERN WHEAT, BAD RIVER BLUE GRAMMA AND GREEN NEEDLE CERTIFIED WEED FREE SEED AND MULCH. BORING MUST START AND END BEYOND TREE LINE. NO TREES ARE TO BE CUT DOWN. MINIMUM 4 FOOT BURY. SINGLE PIPELINE ONLY. 701-225-2480 HOME. 701-590-1151 CELL.
H & P HOLDINGS	9.50 ACRES 12-144-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. BORE ONLY. BORE ALL OF PROPERTY. SHANE 970-462-5633 CELL. EDDIE 970-462-5005 CELL.
LANCE & CHRISTY LARSEN	NW1/4 & SW1/4 13-144-96, NW1/4 24-144-96	BE SURE TO CLOSE ALL GATES.
WALTER STEFFEN	SW1/4 24-144-96, NW1/4 25-144-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. NOXIOUS WEED CONTROL. RESEED WITH COUNTY EXTENSION RECOMMENDATIONS. 701-573-4596
AGNES M SCOTT	SW1/4 25-144-96	SINGLE PIPELINE ONLY. PICK UP ROCKS BIGGER THAN 4".
LEO W. & SUSAN E. KRENZEL	SE1/4 26-144-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. BORE ONLY. SINGLE PIPELINE. 701-974-3681.
ROGER & LINDA BREW	NE1/4 35-144-96	
AGNES M. & BILLY K. SCOTT AS TRUSTEES OF WILLIAM D. & AGNES M. SCOTT FAMILY TRUST	SE1/4 LESS 2.51 ACRES 35-144-96	
ND TRUST LANDS	SW1/4 36-144-96	
GERALD & DONNA J ELKINS	LOTS 3 & 4, S1/2NW1/4 1-143-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 307-682-0335 HOME. 307-660-0579 CELL.
SHAWN & JENNIFER BREW	SW1/4 LESS 13 ACRES IN SE1/4SW1/4 1-153-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. NO ABOVE GROUND APPURTENANCES. IF, DURING 2 YEARS AFTER INSTALLATION, THE SETTLING OR COMPACTION OF BACKFILL OF TRENCH CAUSES DEPRESSIONS IN OWNER'S FIELD, THEN UPON NOTIFICATION BY OWNER, GRANTEE SHALL FILL SUCH DEPRESSIONS WITH TOPSOIL. ALL GATES AND FENCING SPECS MUST BE REVIEWED AND APPROVED BY LAND OWNER PRIOR TO INSTALLATION. 701-573-4439
MELVIN KADRMAS	S1/2SE1/4SE1/4 2-143-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 701-573-4529
GEORGE KUBIK	NE1/4 & SE1/4 11-143-96	
WILLIAM & BEATRICE KUBISCHTA	NE1/4 LESS 1.50 ACRES & N1/2SE1/4 14-143-96	

SPECIFIC LANDOWNER'S STIPULATIONS		
NAME	LEGALS	COMMENTS
BYRON & CARLA KUBIK	S1/2SE1/4 14-143-96, NE1/4 LESS 2.51 ACRES & SE1/4 23-143-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. NO ABOVE GROUND APPURTENANCES. IF, DURING 2 YEARS AFTER INSTALLATION, THE SETTLING OR COMPACTION OF BACKFILL OF TRENCH CAUSES DEPRESSIONS IN OWNER'S FIELD, THEN UPON NOTIFICATION BY OWNER, GRANTEE SHALL FILL SUCH DEPRESSIONS WITH TOPSOIL. 701-225-3759
WARREN & LES SCHNEIDER	NE1/4 & SE1/4 26-143-96 ALL 35-143-96	CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. NO ABOVE GROUND APPURTENANCES. INSTALL 24" CULVERT TO REPLACE OLD CULVERT AT CREEK. EASEMENT EDGE 33 FT. FROM EAST LINE OF SECTION. GRANTEE WILL BUILD A NEW 4 WIRE, RED BARB, AMERICAN MADE WIRE FENCE, WITH STEEL FENCE POSTS SPACED EVERY 16 1/2 FEET (ONE ROD) ALONG THE EAST LINE OF SECTION 35, T143N R96W. NEED TO BE INFORMED AND PRESENT BEFORE THE START OF FENCING OPERATIONS. LES 701-573-4549 HOME, 701-260-0354 CELL. WARREN 701-573-4328 HOME.
DAVID & LAURA SADOWSKY	LOTS 1 & 2, S1/2NE1/4, 2-142-9 NW 1/4 & SE1/4, 14-142-96	701-573-4331 HOME. 701-264-9677 CELL.
LAVONNE BULLINGER	SE1/4 2-142-96	
DAVID & PAULINE SADOWSKY FAMILY TRUST	ALL 11-142-96	RECLAMATION IS CRITICAL. 701-483-3769 HOME.
MARK & TINA KOVASH	NE1/4 14-142-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. APPROVE PASTURE GRASS SEED WITH LANDOWNER. 701-573-4531 HOME.
HARLAN & BUDDINE BULLINGER	ALL 23-142-96, W1/2 LESS 19.96, 76.76, 94.28, 20.70 ACRES, NE1/4 & SE1/4 26-142-96, NW1/4 35-142-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. NOXIOUS WEED CONTROL. SINGLE PIPELINE ONLY. 48" MINIMUM BURY. RESEED ALL DISTURBED SURFACES UNTIL RE-ESTABLISHING VEGETATION. LADAK SEED WILL BE PLANTED IN ALL HAY LAND AREAS. ALL REMAINING LANDS SHALL BE PLANTED IN NATIVE GRASSES AS PER RECOMMENDATION OF THE DUNN COUNTY NRCS OFFICE. 701-573-4346 HOME. 701-290-9557 CELL.
LEE & CORRINE PAVLICEK	SW1/4 LESS 2.52 ACRES & 1.98 ACRES 35-142-96, S1/2NW1/4 LOTS 3 & 4 LESS 2.52 ACRES 2-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 701-483-2467
DON & MARJORIE BINSTOCK	S1/2NE1/4, LOTS 1 & 2 LESS 2.52 ACRES & S1/2NW1/4, LOTS 3 & 4 LESS 2.52 ACRES 3-141-96	LOCATE ALL UTILITIES. 701-483-2358 HOME. 701-290-4833 CELL.
KENNETH & RENA KADRMAS	SW1/4 3-141-96, NW1/4 LESS 1 ACRE & SW1/4 10-141-96 NE1/4 & SE1/4 21-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 701-225-2883
WILLARD & EMMA JAEGER	NE1/4SE1/4 16-141-96 NW1/4 15-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. BECKY 701-225-9256 HOME. 701-290-6095 CELL.
JOHN JR. & EMMA JAEGER	E1/2NE1/4 16-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. (SON) MARK 701-260-0449 CELL.

AS-CONSTRUCTED

FINAL
6/11/15

LEGEND 	MATERIAL SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MK. NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MK. NO.	QTY.	DESCRIPTION																									REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																SCALE: NONE DRAWN BY: D. BUNKERS DATE: 6/11/15 CHECKED BY: D. DIONNE APPROVED BY: S. BESMER KLJ JOB NUMBER: 1713140 REVISION: - SHEET: 2	 BOE PIPELINE, LLC BOE PIPELINE PHASE I LANDOWNER STIPULATION DUNN & STARK COUNTY, NORTH DAKOTA	 4585 Coleman Street Bismarck, ND 58502 © KLJ 2015
MK. NO.	QTY.	DESCRIPTION																																																
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BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA

SPECIFIC LANDOWNER'S STIPULATIONS		
NAME	LEGALS	COMMENTS
MARTHA A. KOSTELECY	W1/2SE1/4 & SE1/4SE1/4 16-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. (GARY) 701-225-3344
DELMAR FICEK	NE1/4 28-141-96 LOTS 1, 2, 7, 8, 9, & 10 1-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. NO ABOVE GROUND SURFACE STRUCTURES. 701-225-3865.
MARY KUPPER, ETAL	LOTS 12, 13, & 14 7-140-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. MARTIN (CORK) 218-496-2321 CELL. CARMEN, POA FOR MARY 515-252-4777 CELL
NORBERT & GLADYS ZASTOUPIL	SE1/4 LESS .42 & 2.09 ACRES 28-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. STRIP TOPSOIL FIRST. RECLAMATION IS CRITICAL. 701-483-3932 HOME. 701-290-1229 CELL.
EUGENE & KATHLEEN KINZEL	W1/2E1/2 LESS 1.06 ACRES, SW1/4, NW1/4 LESS 2.12 ACRES & LESS 5 ACRES TRACT (440X495) 33-141-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 5 FT MINIMUM BURY. NO ABOVE GROUND APPURTENANCES. CONSTRUCTION NEEDS TO BE COMPLETED 60 DAYS FROM COMMENCEMENT OF CONSTRUCTION. 701-225-9764 HOME. 701-260-1550 CELL.
LEO EHRMANTRAUT, ETAL	LOT 3 7-140-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. BORE ONLY. NO ABOVE GROUND APPURTENANCES. LEO 701-290-2710 CELL.
MJK FAMILY LIMITED PARTNERSHIP	SE1/4 12-140-97 LOTS 1 & 2 7-140-96	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. MARTY KUPPER 952-841-2160
ALLEN & JOSELLE SCHMIDT	NE1/4 LESS 2 TRACTS 133.3 ACRES 13-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. 5 FT MINIMUM BURY. BORE IF POSSIBLE. 701-573-4584 HOME. 701-290-7145 CELL.
DOUGLAS & KATHLEEN SCHMIDT	NW1/4 13-140-97, NW1/4 & NE1/4 14-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 701-483-3586 HOME, 701-290-2267 CELL.
CLARENCE TUHY	SW1/4 14-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. STRIP TOPSOIL FIRST. RECLAMATION IS CRITICAL. 701-483-3932 HOME. 701-290-1229 CELL.
STATE OF NORTH DAKOTA	NW1/4 & SW1/4 23-140-97	
ARTHUR S RIDL, ETAL	NW1/4 26-140-97, NE1/4 27-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. BROTHERS KURT AND KEITH WOULD LIKE TO BE ON SITE WHEN TOPSOIL IS PULLED OFF. RECLAMATION IS CRITICAL. 701-483-5836 HOME. 701-260-8277 CELL.
FALLER FAMILY REVOKABLE TRUST	SE1/4 27-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. BUD FALLER 701-225-8563 HOME.
ROGETTE SHANNON	NE1/4 & SE1/4 34-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. LANDOWNER WOULD LIKE TO BE PRESENT WHEN TOPSOIL IS STRIPPED. DO NOT WANT ANY FROZEN SOIL RECLAIMED IN THE DITCH.
GORDON & RODNEY KOSTELECKY	SW1/4 34-140-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. GORDON 701-483-7028
RUDOLPH PAZOUREK	NW1/4 3-139-97	701-483-9182 HOME.
MELISSA CHRUSZCH	SW1/4 LESS SW1/4SW1/4 & 1 TRACT 3-139-97	NO RESEEDING NECESSARY.

SPECIFIC LANDOWNER'S STIPULATIONS		
NAME	LEGALS	COMMENTS
DARRELL A CHRUSZCH	SW1/4SW1/4 3-139-97	
KEN & LEONA BARNHART	W1/2NW1/4 10-139-97	701-483-3782 HOME.
EDOG MANIFEST, LLC	SW1/4 & SE1/4 10-139-97	
BOE MATERIALS LLC	SW1/4 LESS 16.287 11-139-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. JOHN WADSWORTH 316-295-2911 OFFICE. 316-619-5944 CELL.
BAKKEN OIL EXPRESS LLC	SE1/4 11-139-97	CONTACT BEFORE START UP AND WITH ANY ISSUES THAT MAY ARISE. JOHN WADSWORTH 316-295-2911 OFFICE. 316-619-5944 CELL.

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FINAL
6/11/15

LEGEND 	MATERIAL SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MK.NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MK.NO.	QTY.	DESCRIPTION																															REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																<small>SCALE: NONE</small> <small>DRAWN BY: D. BUNKERS</small> <small>DATE: 6/11/15</small> <small>CHECKED BY: D. DIONNE</small> <small>APPROVED BY: S. BESMER</small> <small>KLJ JOB NUMBER: 1713140</small> <small>REVISION: - SHEET: 3</small>	 BOE PIPELINE PHASE I LANDOWNER STIPULATION DUNN & STARK COUNTY, NORTH DAKOTA	 <small>4585 Coleman Street Bismarck, ND 58502</small> <small>© KLJ 2015</small>
MK.NO.	QTY.	DESCRIPTION																																																						
NO.	DATE	DESCRIPTION																																																						

BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA

BORE LIST						
BORE NO.	STATIONING	TYPE	COMMENTS	LENGTH	SECTION	SHEET
1	31+11.90	PRIVATE	DRAINAGE	492'	28-145-95	7
2	44+60.71	PRIVATE	ACCESS ROAD	252'	28-145-95 33-145-95	7
3	150+07.99	PRIVATE	MURPHY CREEK	502'	1-144-96	9-10
4	155+69.40	COUNTY	7TH ST. SW	245'	1-144-96 12-144-96	10
5	177+74.92	PRIVATE	H & P HOLDINGS	316'	12-144-96	10
6	198+18.15	PRIVATE	DRAINAGE	708'	12-144-96	10-11
7	235+80.85	PRIVATE	DRAINAGE	784'	13-144-96	11
8	277+90.06	PRIVATE	DRAINAGE	755'	24-144-96	12
9	285+37.98	PRIVATE	DRAINAGE	667'	24-144-96	12
10	328+03.82	PRIVATE	WOLF CREEK	529'	25-144-96	13
11	370+58.81	COUNTY	11TH ST. SW	374'	25-144-96 26-144-96 35-144-96	14
12	413+32.88	COUNTY	109TH AVE. SW	354'	35-144-96 36-144-96	15
13	424+25.59	COUNTY	12TH ST. SW	301'	36-144-96 1-143-96	15
14	476+03.96	PRIVATE	KNIFE RIVER	622'	1-143-96 2-143-96	16
15	519+81.49	PRIVATE	CREEK	646'	11-143-96	17
16	532+83.92	COUNTY	14TH ST. SW	179'	11-143-96 14-143-96	17
17	585+73.55	COUNTY	15TH ST. SW	269'	14-143-96 23-143-96	18
18	691+50.68	COUNTY	17TH ST. SW	215'	26-144-96 35-143-96	20
19	726+36.47	PRIVATE	AVOIDANCE AREAS & CROOKED CREEK	2142'	35-143-96	21
20	744+21.00	COUNTY	18TH ST. SW	275'	35-143-96 2-142-96	21
21	844+23.50	PRIVATE	DRAINAGE	446'	11-142-96	23
22	855+18.76	COUNTY	20TH ST. SW	251'	11-142-96 14-142-96	24
23	916+15.35	PRIVATE	TERRAIN	639'	23-142-96	25
24	982+21.28	PRIVATE	TERRAIN	553'	26-142-96	26
25	999+92.25	PRIVATE	RAVINE	848'	26-142-96	26-27
26	1024+08.54	PRIVATE	AVOIDANCE AREA	416'	35-142-96	27
27	1074+35.72	COUNTY	24TH ST. SW	299'	35-142-96 2-141-96	28
28	1096+34.76	PRIVATE	WETLAND	435'	3-141-96	28
29	1148+27.94	COUNTY	25TH ST. SW	165'	3-141-96 10-141-96	29
30	1183+18.63	PRIVATE	RUSSIAN SPRING CREEK	495'	10-141-96	30

BORE LIST						
BORE NO.	STATIONING	TYPE	COMMENTS	LENGTH	SECTION	SHEET
31	1374+99.53	COUNTY	29TH ST. SW	301'	28-141-96 33-141-96	34
32	1395+44.65	PRIVATE	WETLAND	334'	33-141-96	34
33	1444+84.66	PRIVATE	GREEN RIVER	1563'	1-140-97	36
34	1493+75.27	COUNTY	31ST ST. SW	166'	6-140-97 7-140-97	36
35	1522+27.08	COUNTY	114TH AVE. SW & PROPERTY	330'	7-140-97 12-140-97	37
36	1565+48.36	PRIVATE	WATERLINE	377'	12-140-97 13-140-97	38
37	1599+02.19	COUNTY	115TH AVE. SW	224'	13-140-97 14-140-97	39
38	1646+95.24	PRIVATE	DRAINAGE	462'	14-140-97	40
39	1674+04.45	PRIVATE	DRAINAGE	573'	14-140-97	40
40	1734+78.78	COUNTY	34TH ST. SW	377'	23-140-97 26-140-97	41
41	1744+66.97	COUNTY	116TH AVE. SW	240'	26-140-97 27-140-97	41
42	1791+21.57	COUNTY	35TH ST. SW	204'	27-140-97 34-140-97	42
43	1831+41.23	PRIVATE	DUCK CREEK	595'	34-140-97	43
44	1854+69.94	STATE	INTERSTATE 94	519'	34-140-97 3-139-97	44
45	1907+30.13	STATE	HIGHWAY 10	270'	3-139-97 10-139-97	45
46	1975+21.57	COUNTY	116TH AVE. SW	941'	10-139-97 11-139-97	46
47	2015+39.13	COUNTY	BRIDGE	218'	11-139-97	47

FINAL
6/11/15

AS-CONSTRUCTED

<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE - - - SECTION LINE - - - EASEMENT LINE — PIPELINE CENTERLINE W WATER LINE — FOREIGN PIPELINE — EXISTING ROAD - - - UNDERGROUND COM. LINE —*— EXISTING FENCE FO FIBER OPTIC COM. LINE — RAILROAD — OVERHEAD ELECTRIC — UTILITY POLE AS-CONSTRUCTED BORE — MARKER POST — AVOIDANCE AREA WETLAND EASEMENT — TEST LEAD — VALVE SETTING 		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">MATERIAL SUMMARY</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>MK. NO.</th> <th>QTY.</th> <th>NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	MATERIAL SUMMARY		REVISIONS		MK. NO.	QTY.	NO.	DATE																																									<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SCALE: NONE</td></tr> <tr><td>DRAWN BY: D. BUNKERS</td></tr> <tr><td>DATE: 6/11/15</td></tr> <tr><td>CHECKED BY: D. DIONNE</td></tr> <tr><td>APPROVED BY: S. BESMER</td></tr> <tr><td>KLJ JOB NUMBER: 1713140</td></tr> <tr><td>REVISION: — SHEET: 4</td></tr> </table>	SCALE: NONE	DRAWN BY: D. BUNKERS	DATE: 6/11/15	CHECKED BY: D. DIONNE	APPROVED BY: S. BESMER	KLJ JOB NUMBER: 1713140	REVISION: — SHEET: 4	<p>BOE PIPELINE PHASE I BORE LIST DUNN & STARK COUNTY, NORTH DAKOTA</p>	
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BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA

TEST STATION SCHEDULE		
STATION	TYPE	NOTE
45+51.50	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
288+91.92	TYPE-1	FENCE LINE
309+85.38	TYPE-1	POWER LINE CROSSING
425+52.21	TYPE-1	12TH ST. SW CROSSING
479+37.95	TYPE-1	FENCE LINE
531+93.45	TYPE-1	14TH ST. SW CROSSING
577+85.70	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
579+42.34	TYPE-1	FOREIGN CROSSING PIPELINE
626+99.19	TYPE-1	FOREIGN CROSSING WBI PIPELINE
692+72.05	TYPE-1	17TH ST. SW CROSSING
745+79.35	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
801+70.70	TYPE-1	FOREIGN CROSSING HILAND PARTNERS PIPELINE
846+25.61	TYPE-1	FOREIGN CROSSING HILAND PARTNERS PIPELINE
971+50.65	TYPE-1	FOREIGN CROSSING HILAND PARTNERS PIPELINE
1072+69.99	TYPE-1	24TH ST. SW CROSSING
1149+20.68	TYPE-1	25TH ST. SW CROSSING

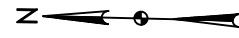
TEST STATION SCHEDULE		
STATION	TYPE	NOTE
1203+34.20	TYPE-1	26TH ST. SW CROSSING
1562+86.84	TYPE-1	FENCE LINE
1660+54.49	TYPE-1	FOREIGN CROSSING PLAINS PIPELINE
1662+30.15	TYPE-1	FOREIGN CROSSING BRIDGER PIPELINE
1679+99.68	TYPE-1	FOREIGN CROSSING BRIDGER PIPELINE
1682+18.21	TYPE-1	FENCE LINE
1733+39.33	TYPE-1	34TH ST. SW CROSSING
1770+95.92	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
1780+68.65	TYPE-1	FOREIGN CROSSING CLINE PIPELINE
1786+17.78	TYPE-1	FOREIGN CROSSING BELLE FOURCHE PIPELINE
1851+99.90	TYPE-1	I-94 CROSSING
1905+61.04	TYPE-1	HWY-10 CROSSING
1973+18.70	TYPE-1	FOREIGN CROSSING MDU PIPELINE

FINAL
6/11/15

AS-CONSTRUCTED

<p>LEGEND</p> <table style="width: 100%; font-size: 8pt;"> <tr> <td>—</td><td>PROPERTY LINE</td> <td>—*—</td><td>EXISTING FENCE</td> <td></td><td>AVOIDANCE AREA</td> </tr> <tr> <td>- - -</td><td>SECTION LINE</td> <td>—FO—</td><td>FIBER OPTIC COM. LINE</td> <td></td><td>WETLAND EASEMENT</td> </tr> <tr> <td>- · - · -</td><td>EASEMENT LINE</td> <td>—R—</td><td>RAILROAD</td> <td></td><td>TEST LEAD</td> </tr> <tr> <td>—</td><td>PIPELINE CENTERLINE</td> <td>—E—</td><td>OVERHEAD ELECTRIC</td> <td></td><td>VALVE SETTING</td> </tr> <tr> <td>—W—</td><td>WATER LINE</td> <td>—</td><td>UTILITY POLE</td> <td></td><td>MARKER POST</td> </tr> <tr> <td>—R—</td><td>FOREIGN PIPELINE</td> <td>—</td><td>AS-CONSTRUCTED BORE</td> <td></td><td></td> </tr> <tr> <td>—</td><td>EXISTING ROAD</td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>— · — · —</td><td>UNDERGROUND COM. LINE</td> <td></td><td></td> <td></td><td></td> </tr> </table>	—	PROPERTY LINE	—*—	EXISTING FENCE		AVOIDANCE AREA	- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE		WETLAND EASEMENT	- · - · -	EASEMENT LINE	—R—	RAILROAD		TEST LEAD	—	PIPELINE CENTERLINE	—E—	OVERHEAD ELECTRIC		VALVE SETTING	—W—	WATER LINE	—	UTILITY POLE		MARKER POST	—R—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE			—	EXISTING ROAD					— · — · —	UNDERGROUND COM. LINE					<p style="text-align: center;">MATERIAL SUMMARY</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8pt;"> <thead> <tr> <th>MK.NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MK.NO.	QTY.	DESCRIPTION																									<p style="text-align: center;">REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8pt;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																<p>SCALE: NONE DRAWN BY: D. BUNKERS DATE: 6/11/15 CHECKED BY: D. DIONNE APPROVED BY: S. BESMER KLJ JOB NUMBER: 1713140 REVISION: — SHEET: 5</p>	 BOE PIPELINE, LLC BOE PIPELINE PHASE I TEST STATION SCHEDULE DUNN & STARK COUNTY, NORTH DAKOTA	 <small>4585 Coleman Street Bismarck, ND 58502</small> <small>© KLJ 2015</small>
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**BOE PIPELINE PHASE I
AS-CONSTRUCTED ALIGNMENT SHEETS
MAINLINE VALVE SCHEMATIC
DUNN & STARK COUNTY, NORTH DAKOTA**



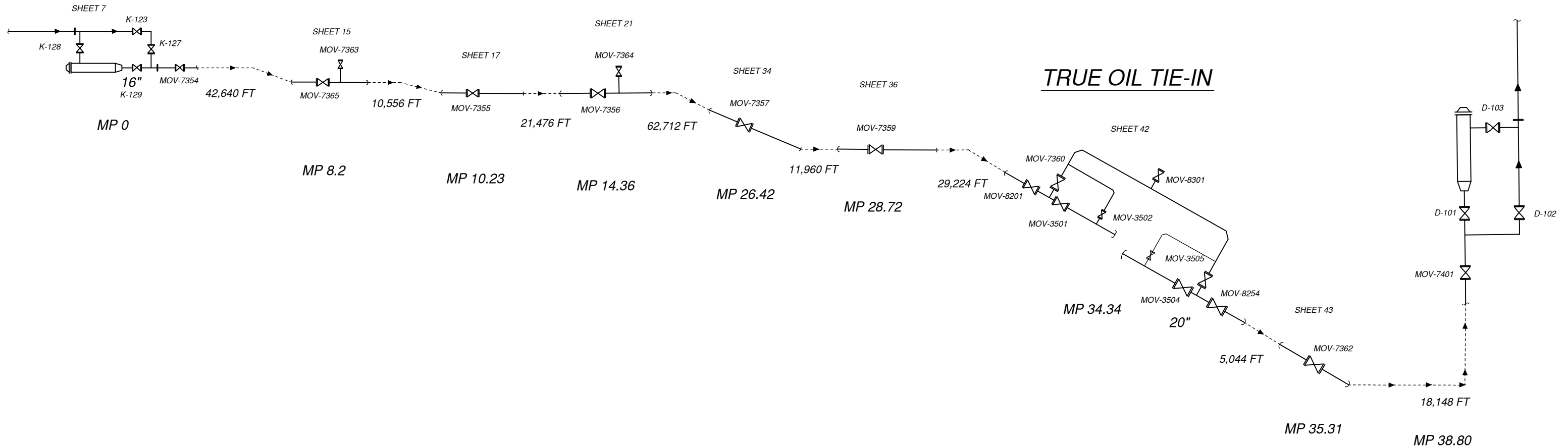
KILLDEER

**VALVE SETTING
W/ FUTURE**

**VALVE SETTING
W/ FUTURE**

DICKINSON

SHEET 47



AS-CONSTRUCTED

**FINAL
6/11/15**

LEGEND

—	PROPERTY LINE	—*—	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE		WETLAND EASEMENT
- · - · -	EASEMENT LINE	—R—	RAILROAD		EASEMENT
— — —	PIPELINE CENTERLINE	—E—	OVERHEAD ELECTRIC	—○—	TEST LEAD
—W—	WATER LINE	—□—	UTILITY POLE	—X—	VALVE SETTING
—F—	FOREIGN PIPELINE	—○—	AS-CONSTRUCTED BORE		MARKER POST
—E—	EXISTING ROAD				
—U—	UNDERGROUND COM. LINE				

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MATERIAL SUMMARY			REVISIONS		
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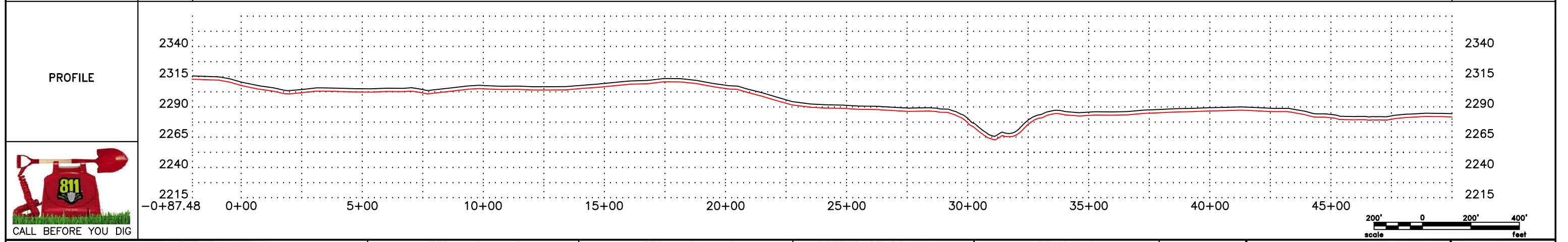
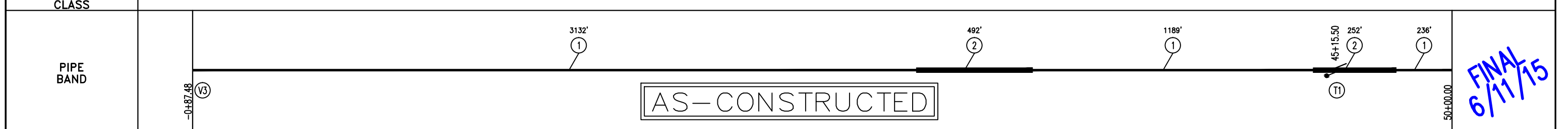
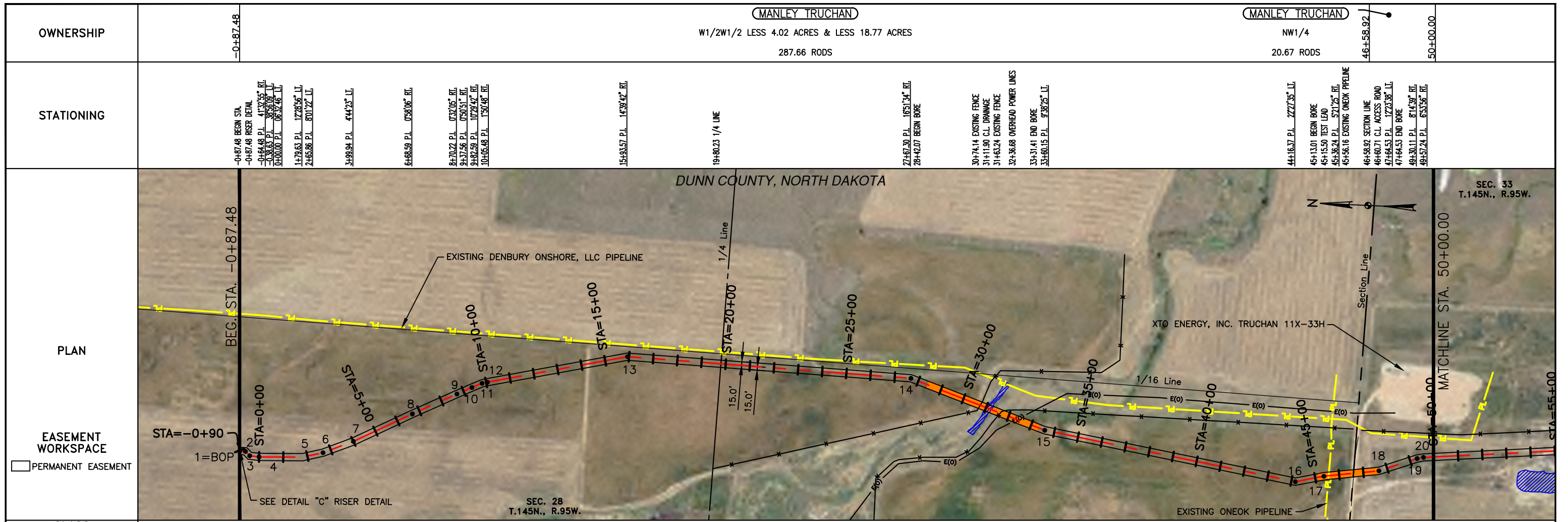
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DRAWN BY:	D. DIONNE
DATE:	6/11/15
CHECKED BY:	C. FOSTER
APPROVED BY:	S. BESMER
KLJ JOB NUMBER:	1713140
REVISION:	SHEET: 6

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
MAINLINE VALVE SCHEMATIC
DUNN & STARK COUNTY, NORTH DAKOTA**

KLJ

4585 Coleman Street
Bismarck, ND 58502



LEGEND

—	PROPERTY LINE	—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE	—	WETLAND EASEMENT
- · - · -	EASEMENT LINE	—	RAILROAD	—	TEST LEAD
- · - · -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	VALVE SETTING
—	WATER LINE	—	UTILITY POLE	—	
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	
—	EXISTING ROAD	—	MARKER POST	—	
—	UNDERGROUND COM. LINE	—		—	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4886 LF	16" OD, 0.281" W.T. API 5L X70, 15-15 MIL FIB
2	744 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL AD
T1	1 EA	TYPE-1

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION
V5 104	RISER DETAIL PLAN & PROFILE DETAIL "C"

REVISIONS

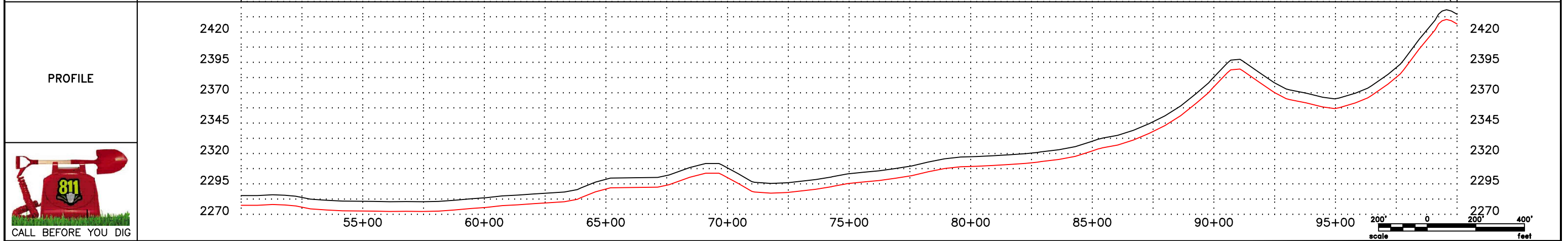
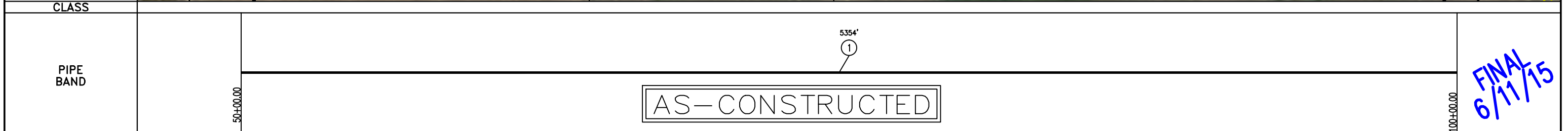
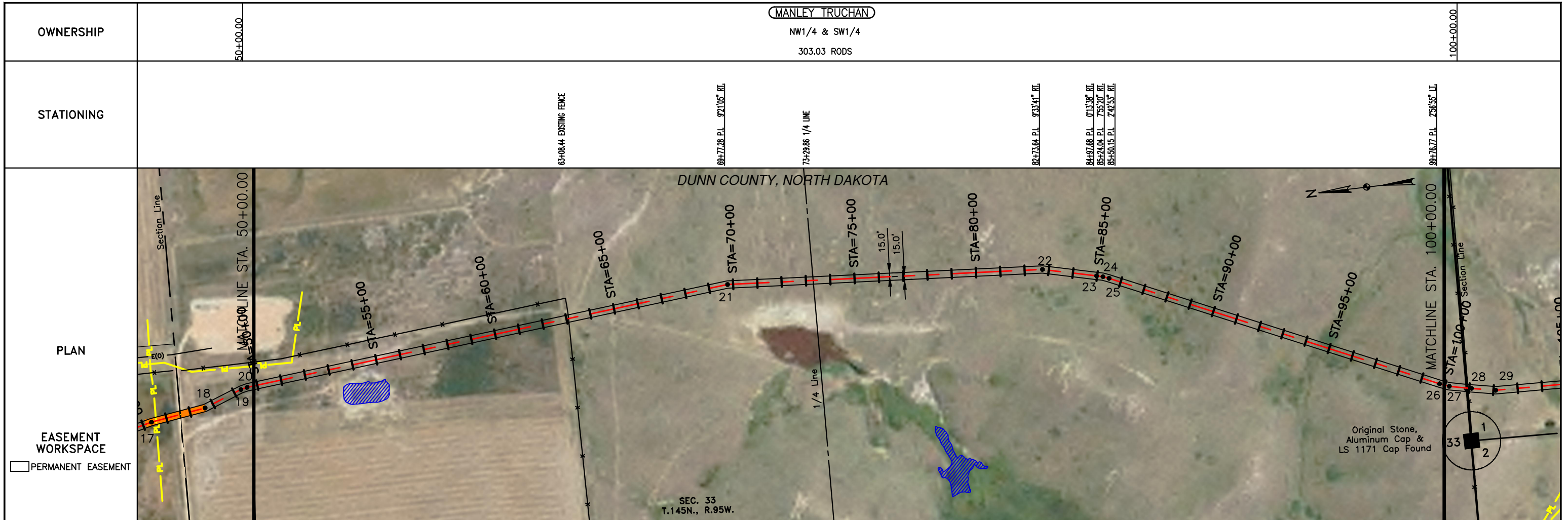
NO.	DATE	DESCRIPTION
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SCALE: 1" = 400'

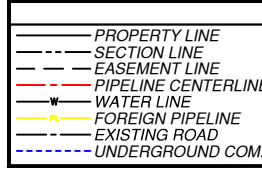
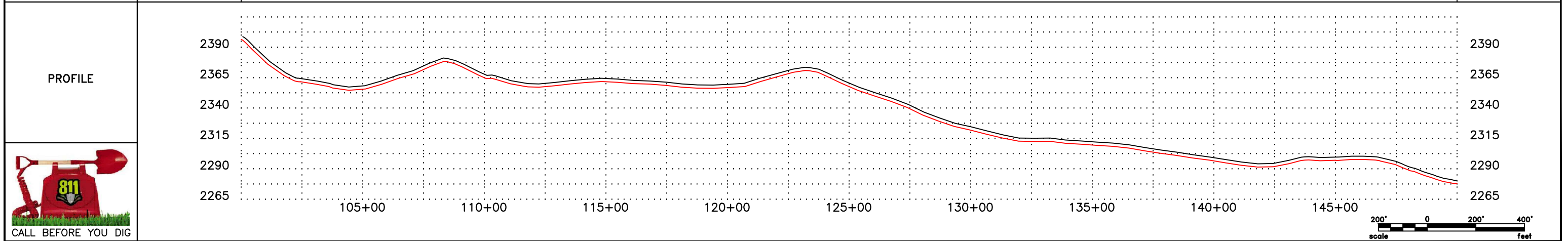
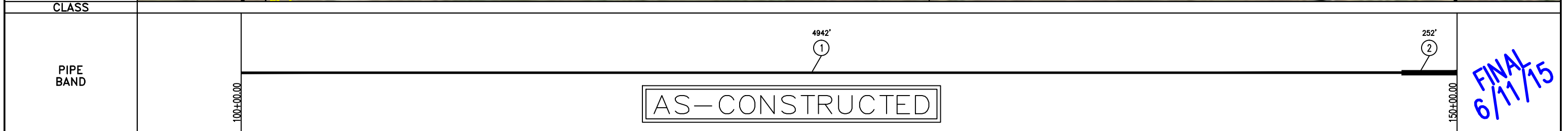
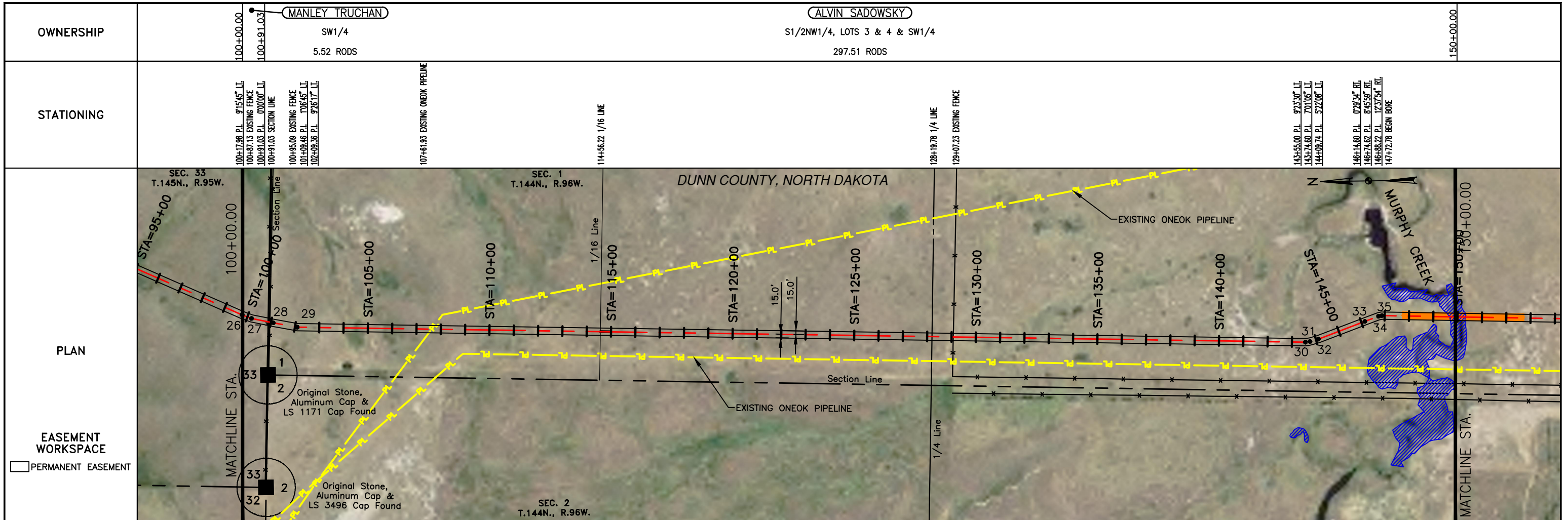
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 7

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 28 & 33, T145N, R95W
DUNN COUNTY, NORTH DAKOTA

KLJ
4585 Coleman Street
Bismarck, ND 58503
© KLJ 2015



LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK.NO.	QTY.	MK.NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	5354 LF					0	6/11/15
---	SECTION LINE								
---	EASEMENT LINE								
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
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---	RAILROAD								
---	OVERHEAD ELECTRIC								
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---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								



LEGEND

—	PROPERTY LINE	—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	- - -	RAILROAD	- - -	EASEMENT
- - -	PIPELINE CENTERLINE	- - -	OVERHEAD ELECTRIC	- - -	TEST LEAD
- - -	WATER LINE	- - -	UTILITY POLE	- - -	VALVE SETTING
- - -	FOREIGN PIPELINE	- - -	AS-CONSTRUCTED BORE	- - -	MARKER POST
- - -	EXISTING ROAD	- - -	MARKER POST		
- - -	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4942 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB
2	252 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

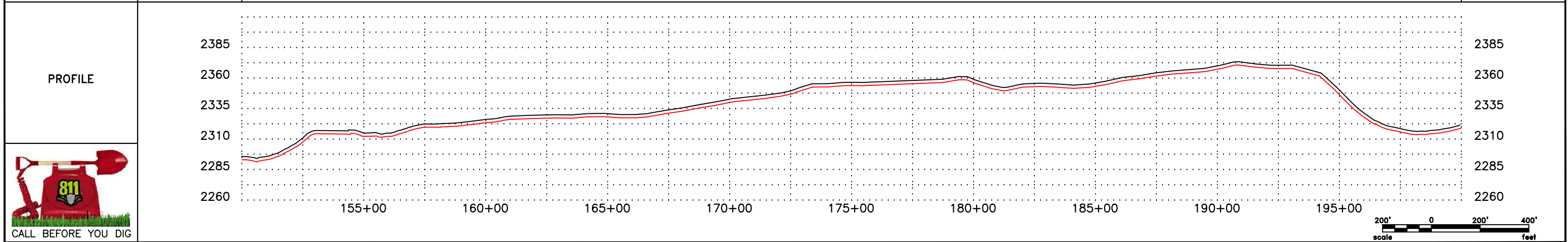
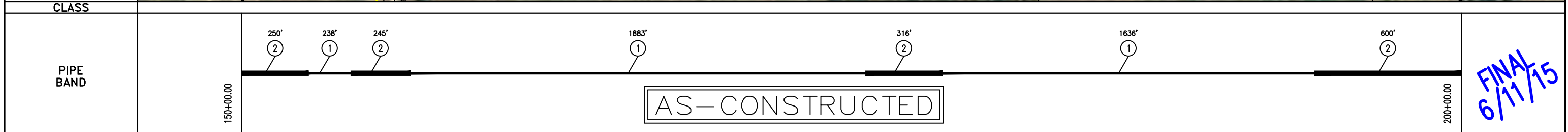
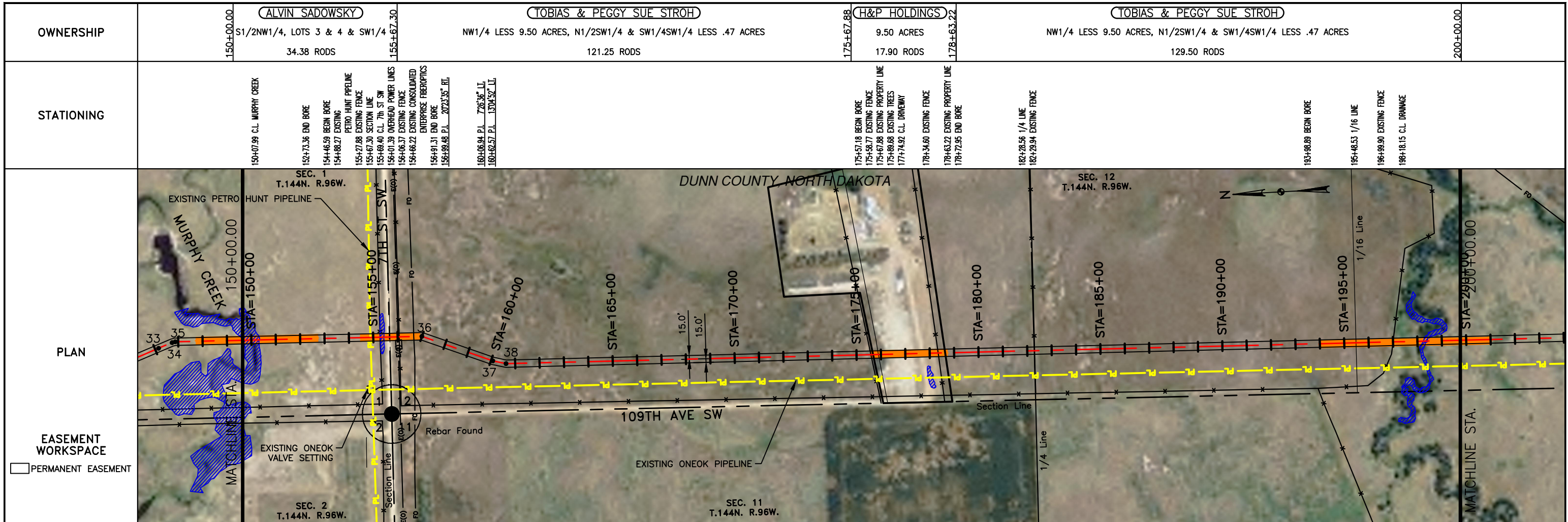
SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 9

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTION 33, T145N, R95W & SECTION 1, T144N, R96W
DUNN COUNTY, NORTH DAKOTA

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Bismarck, ND 58503
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FINAL
6/11/15



LEGEND

—	PROPERTY LINE	-x-	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	▨	EASEMENT
- - -	PIPELINE CENTERLINE	E00	OVERHEAD ELECTRIC	⊙	TEST LEAD
- - -	WATER LINE	□	UTILITY POLE	⊙	VALVE SETTING
- - -	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	⊙	MARKER POST
- - -	EXISTING ROAD	—	MARKER POST		
- - -	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
1	3757 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB
2	1411 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

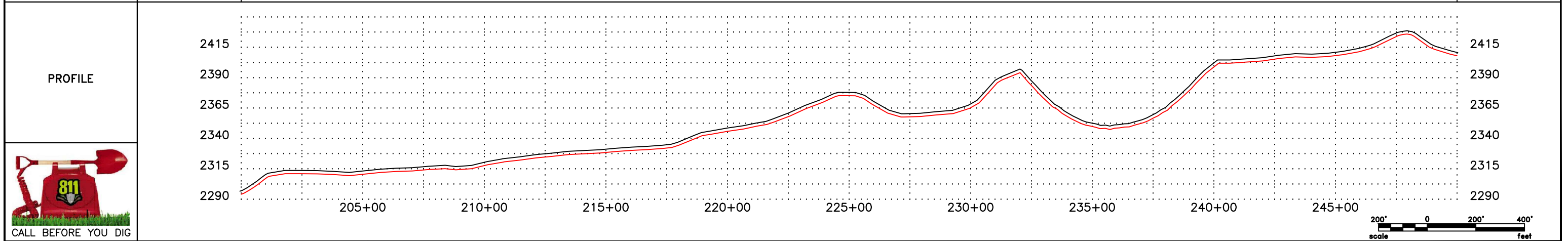
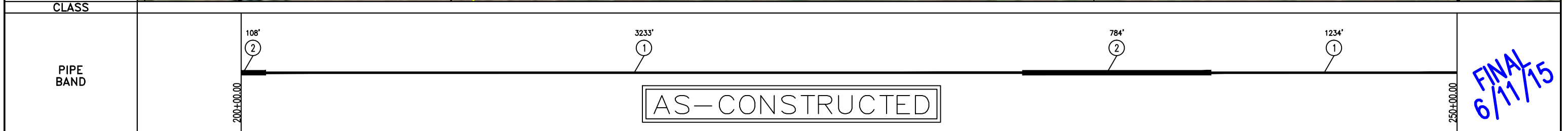
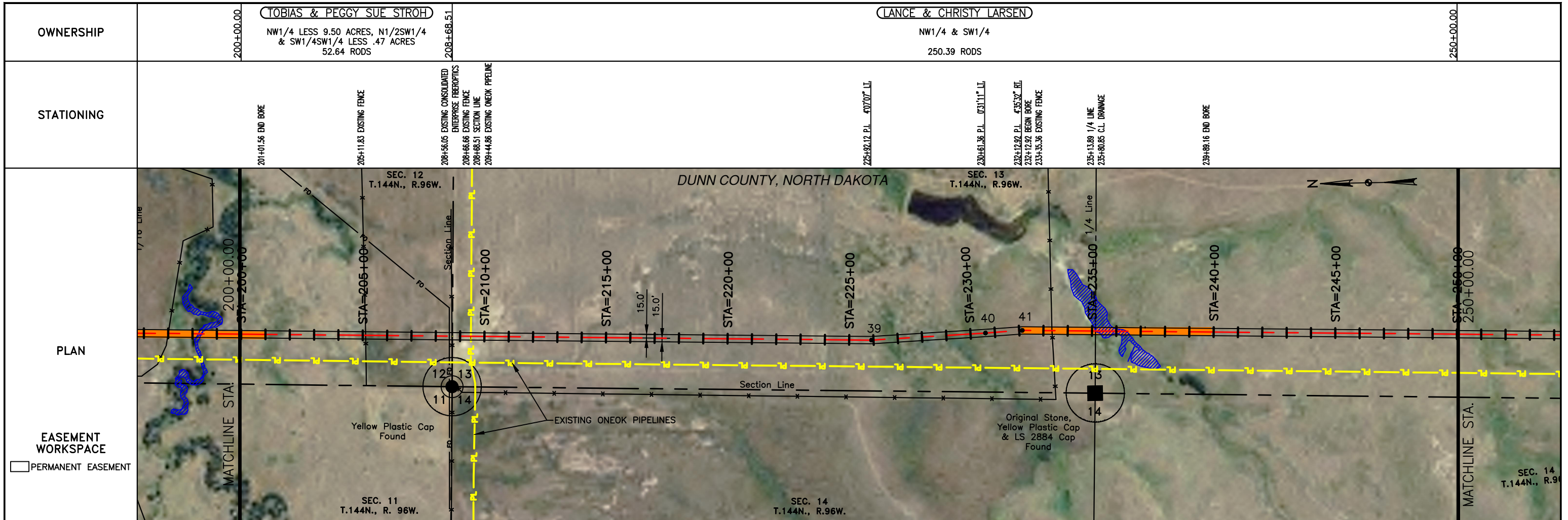
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 10

BOE PIPELINE, LLC.
 BOE PIPELINE PHASE I
 SECTIONS 1 & 12, T144N, R96W
 DUNN COUNTY, NORTH DAKOTA

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LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- - -	EASEMENT LINE
- - -	PIPELINE CENTERLINE
- - -	WATER LINE
- - -	FOREIGN PIPELINE
- - -	EXISTING ROAD
- - -	UNDERGROUND COM. LINE
x	BARBED WIRE FENCE
FO	FIBER OPTIC COM. LINE
—	RAILROAD
—	OVERHEAD ELECTRIC
—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	AVOIDANCE AREA
—	WETLAND
—	EASEMENT
—	TEST LEAD
—	VALVE SETTING

MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION
1	4467 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB
2	892 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO

MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION

REVISIONS		
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'
DRAWN BY: D. BUNKERS
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 11

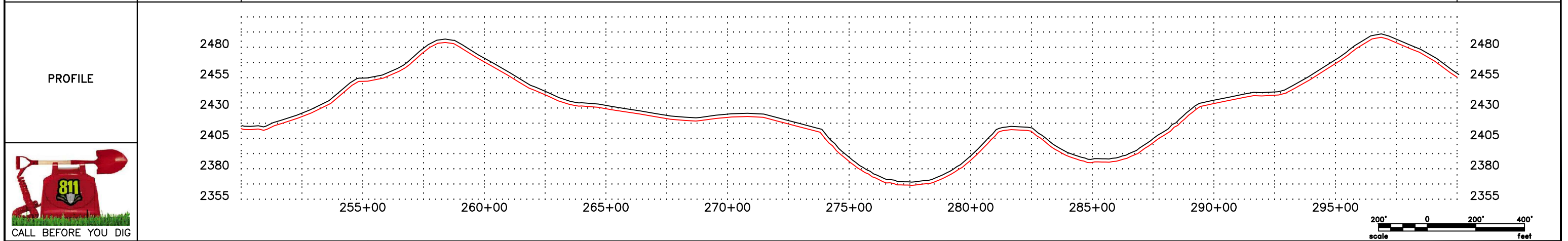
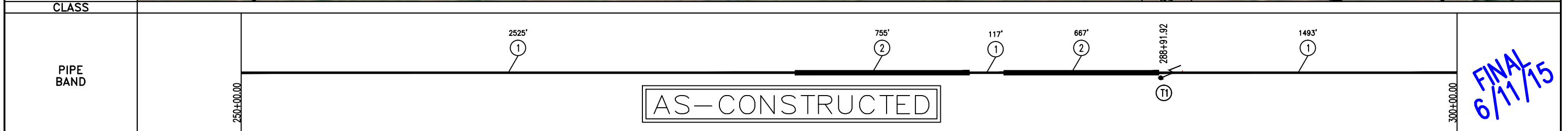
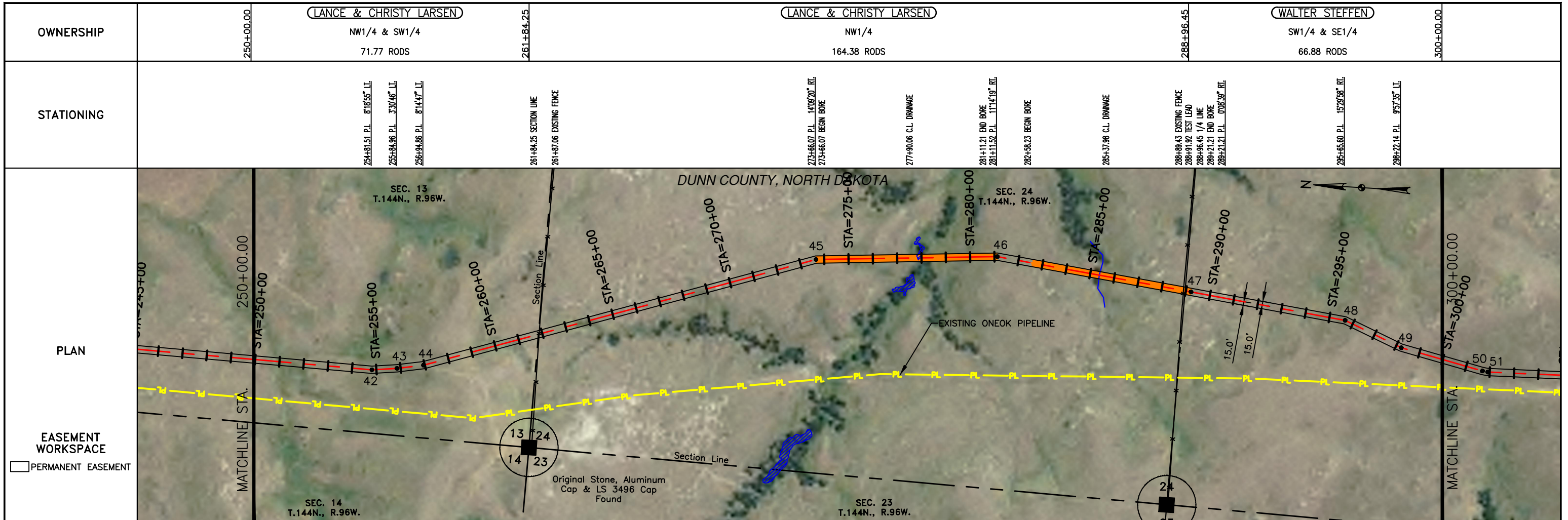
BOE Bakken Oil Express BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 12 & 13, T144N, R96W
DUNN COUNTY, NORTH DAKOTA

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LEGEND

—	PROPERTY LINE	— x —	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	— FO —	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	— R —	RAILROAD	▨	EASEMENT
—	PIPELINE CENTERLINE	— E —	OVERHEAD ELECTRIC	—	TEST LEAD
— W —	WATER LINE	— U —	UTILITY POLE	—	VALVE SETTING
— F —	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4135 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIBE
2	1422 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIBE, 30-35 MIL ANO
T1	1 EA	TYPE-1

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 12

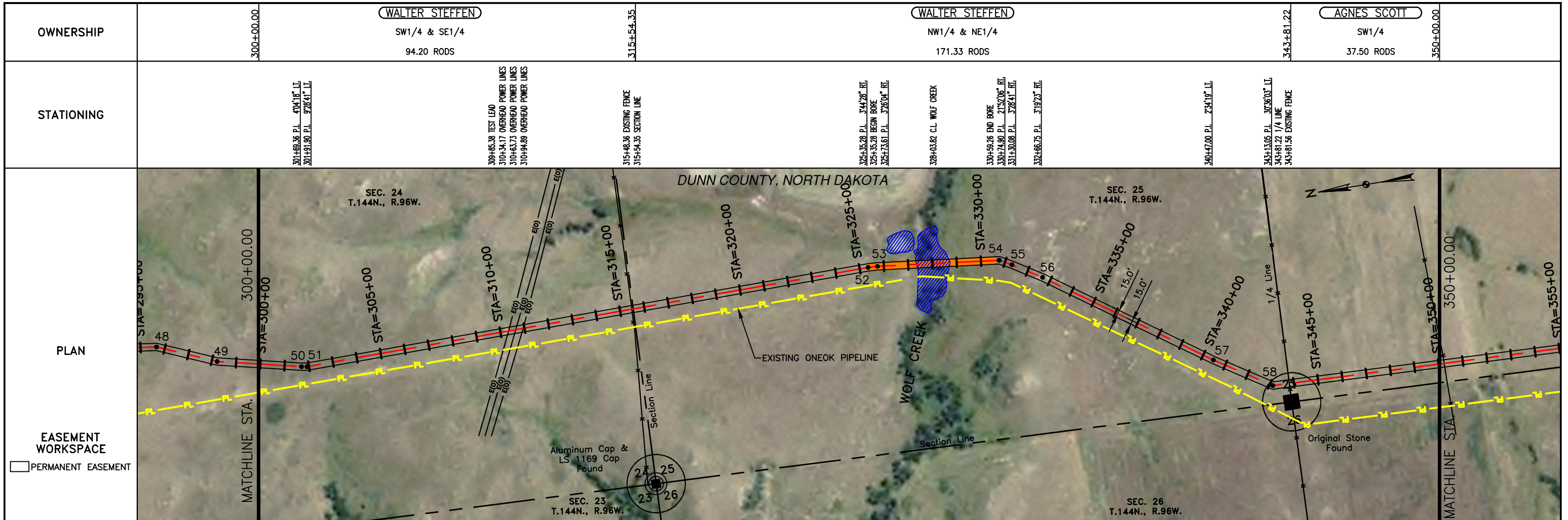
BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 13 & 24, T144N, R96W
DUNN COUNTY, NORTH DAKOTA

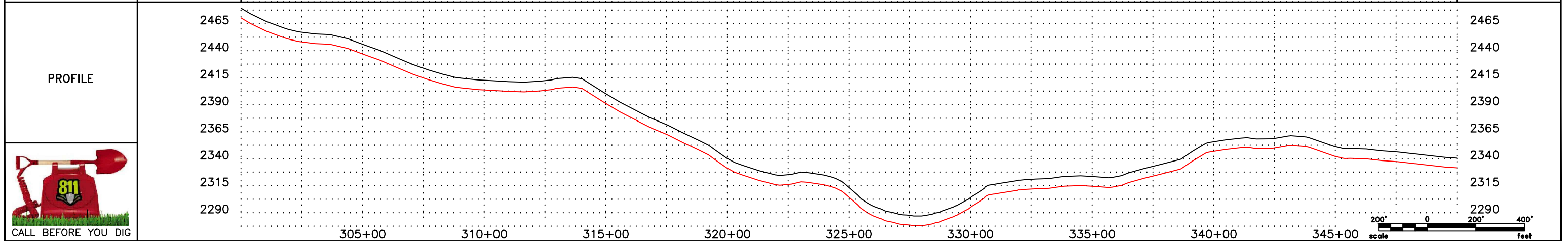
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CLASS



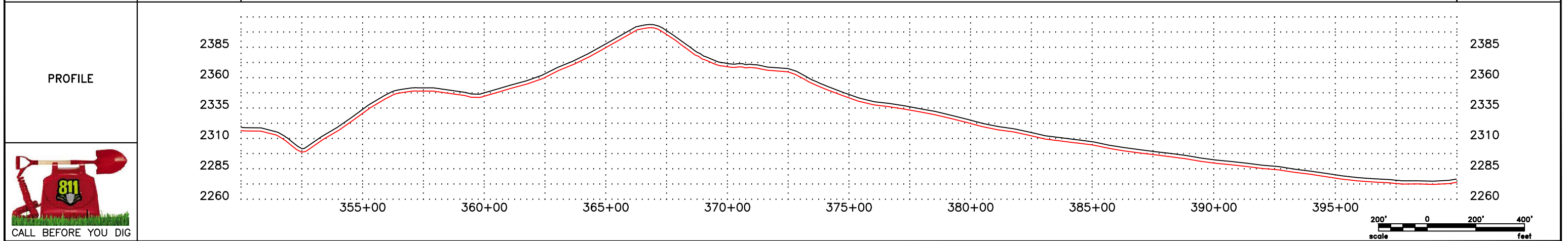
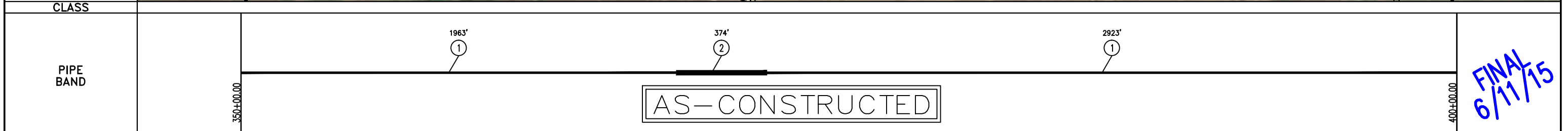
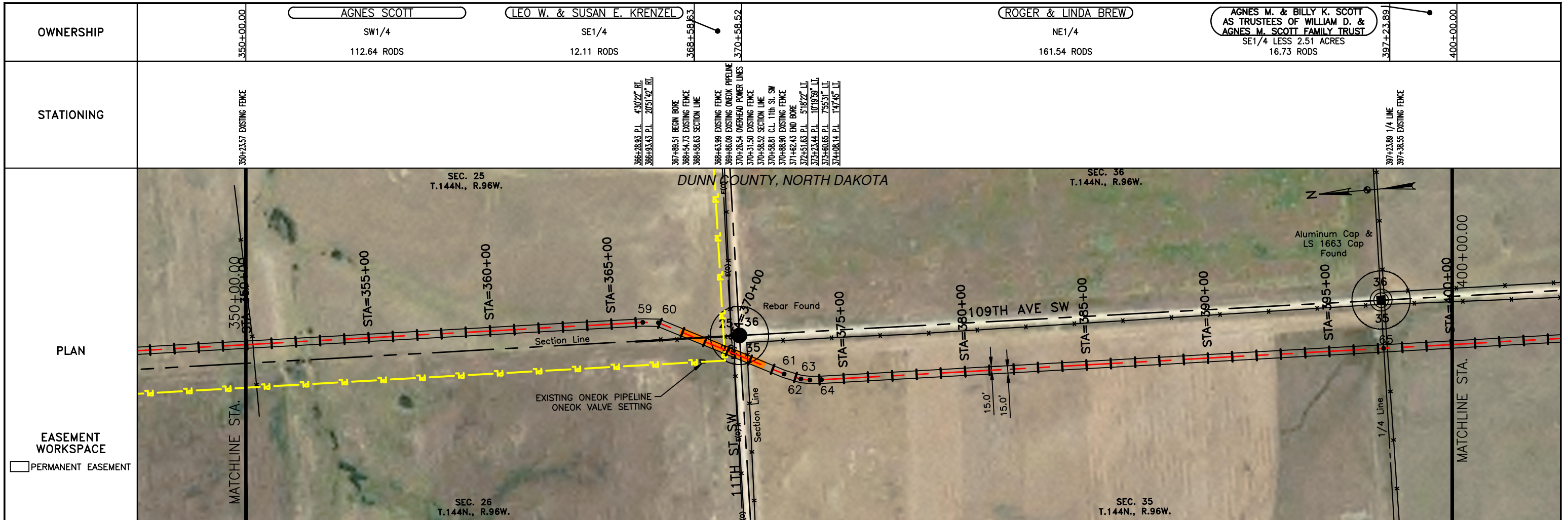
LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	4816 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIBE				0	6/11/15
---	SECTION LINE	2	529 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIBE, 30-35 MIL ANO					
---	EASEMENT LINE	T1	1 EA	TYPE-1					
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 13

BOE PIPELINE, LLC.
 BOE PIPELINE PHASE 1
 SECTIONS 24 & 25, T144N, R96W
 DUNN COUNTY, NORTH DAKOTA

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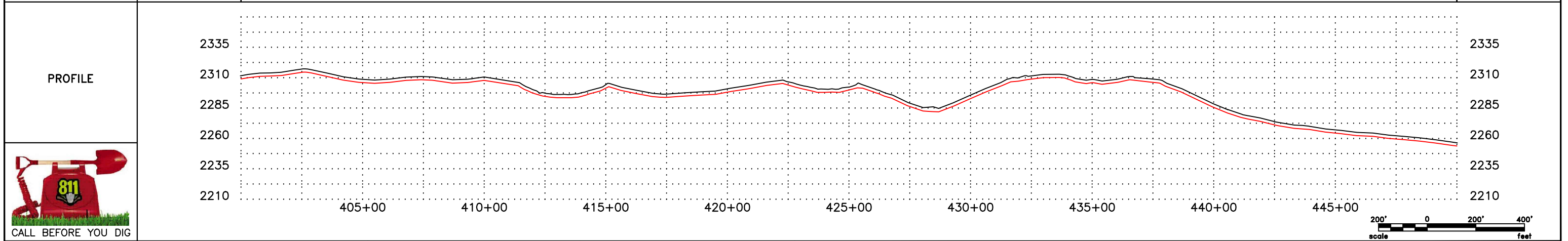
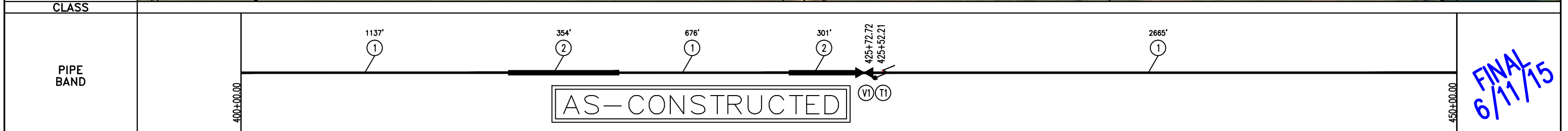
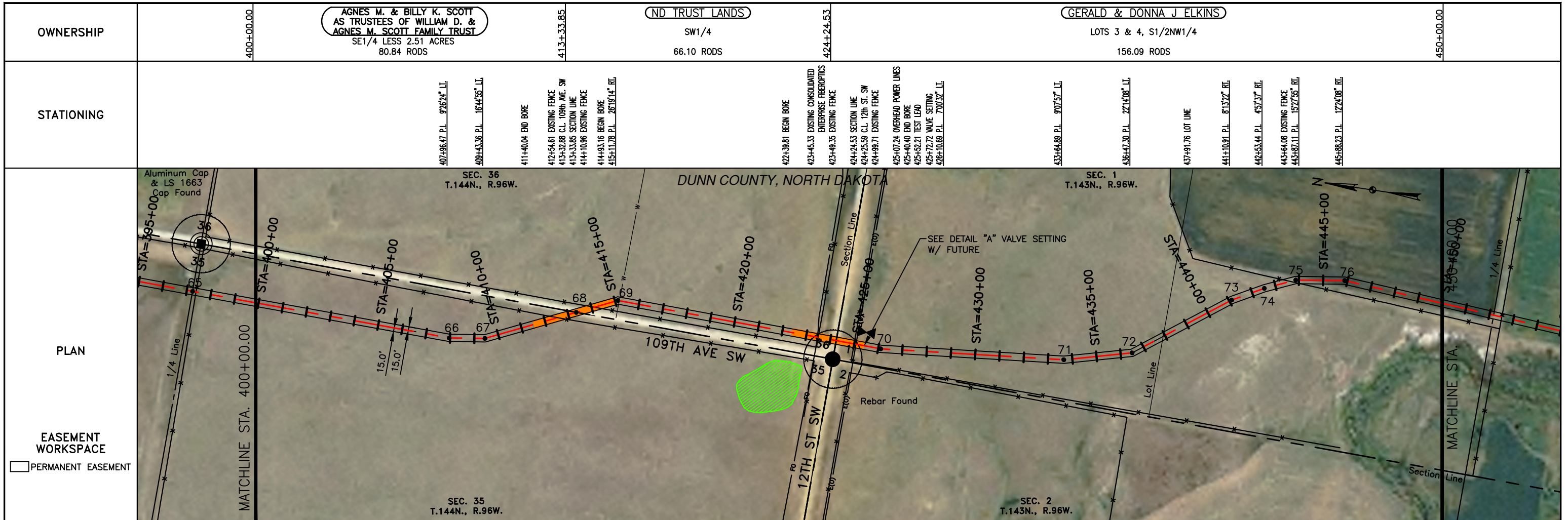
LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	4806 LF					0	6/11/15
---	SECTION LINE	2	374 LF						
---	EASEMENT LINE								
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 14

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 25, 26 & 35, T144N, R96W
DUNN COUNTY, NORTH DAKOTA

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LEGEND

---	PROPERTY LINE	-x-x-	BARBED WIRE FENCE	▨	AVOIDANCE AREA
---	SECTION LINE	-FO-	FIBER OPTIC COM. LINE	▨	WETLAND
---	EASEMENT LINE	---	RAILROAD	▨	EASEMENT
---	PIPELINE CENTERLINE	EOO	OVERHEAD ELECTRIC	⊙	UTILITY POLE
-w-	WATER LINE	---	AS-CONSTRUCTED BORE	⊙	TEST LEAD
-r-	FOREIGN PIPELINE	---	MARKER POST	⊙	VALVE SETTING
---	EXISTING ROAD	---			
---	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4478 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	655 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO			
TI	1 EA	TYPE-1			

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
V1	95 VALVE SETTING PLAN AND PROFILE VIEW DETAIL "A"	0	6/11/15

REVISIONS

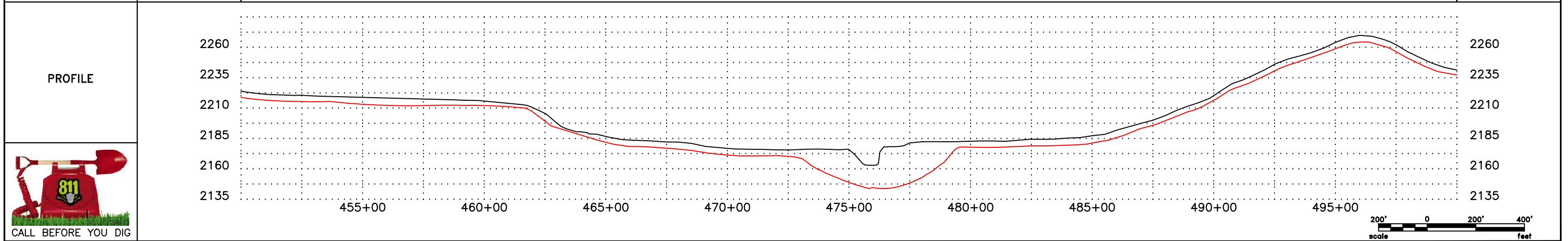
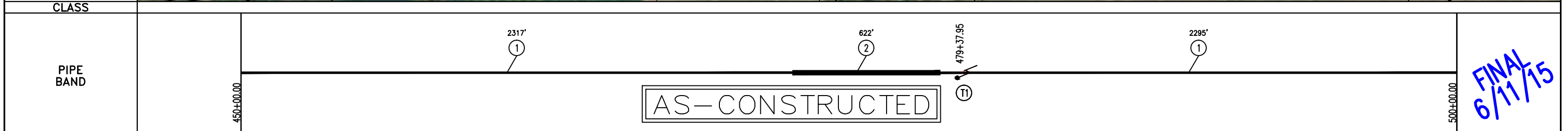
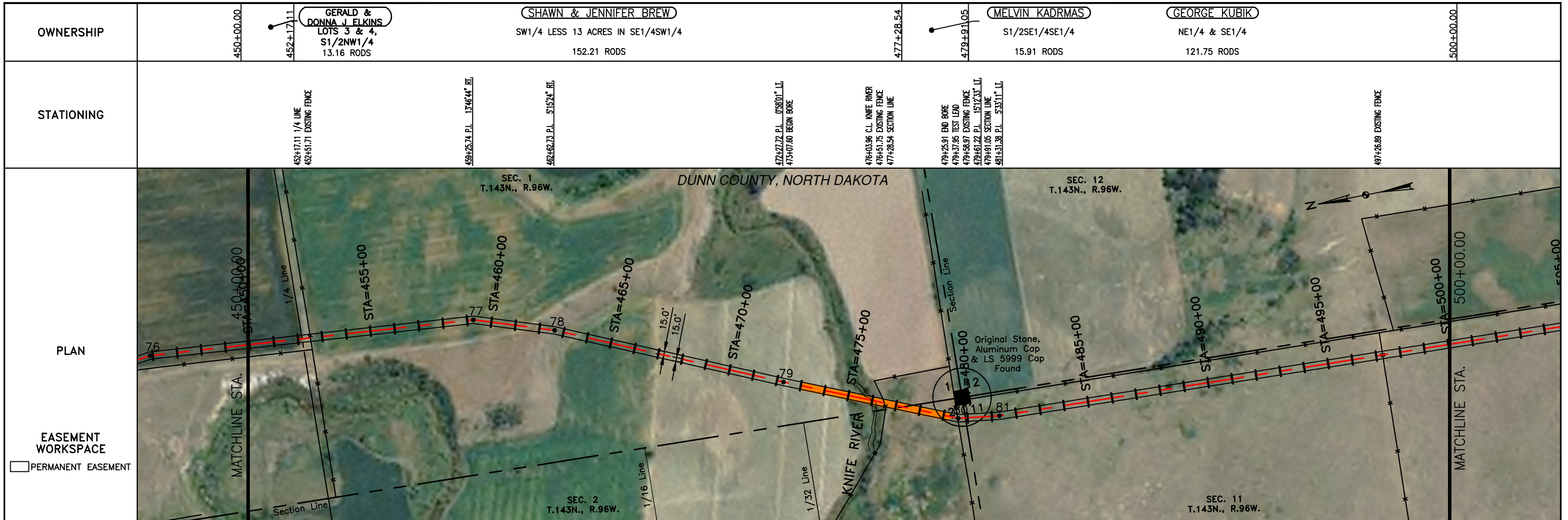
NO.	DATE	DESCRIPTION
AS	CONSTRUCTED	

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 15

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 35 & 36, T144N, R96W & SECTION 1, T143N, R96W
DUNN COUNTY, NORTH DAKOTA

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LEGEND

—	PROPERTY LINE	—x—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	-o-	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
- - -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4612 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	622 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO			
TI	1 EA	TYPE-1			

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

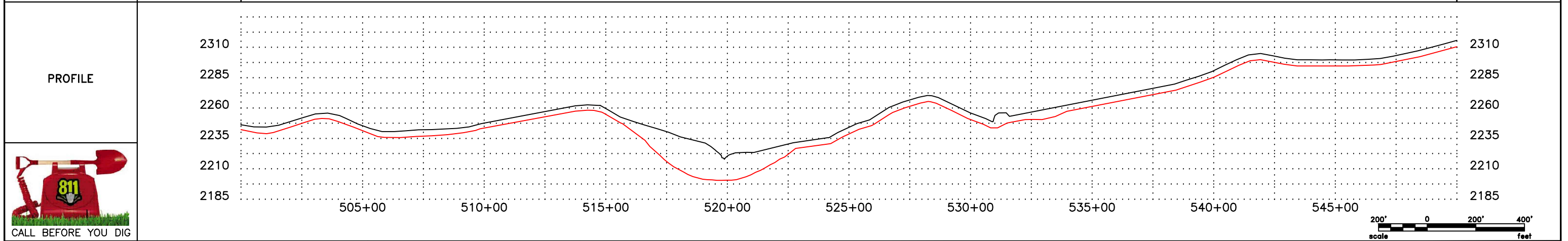
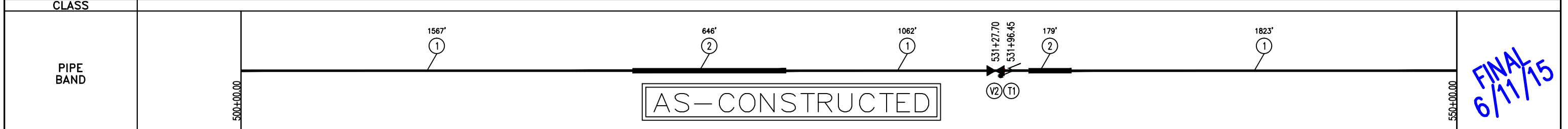
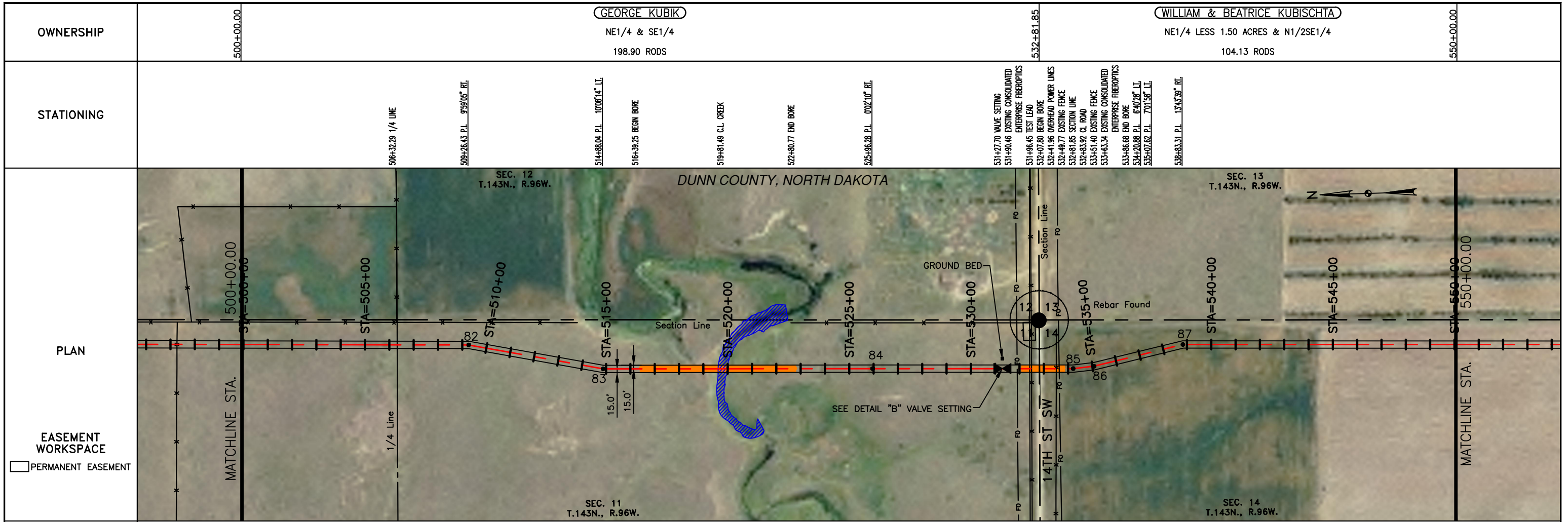
REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'
 DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 16

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
 SECTIONS 1, 2 & 11, T144N, R96W
 DUNN COUNTY, NORTH DAKOTA

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LEGEND

--- PROPERTY LINE	-x-x- BARBED WIRE FENCE	--- AVOIDANCE AREA
--- SECTION LINE	-FO- FIBER OPTIC COM. LINE	--- WETLAND
--- EASEMENT LINE	--- RAILROAD	--- EASEMENT
--- PIPELINE CENTERLINE	--- OVERHEAD ELECTRIC	--- TEST LEAD
-w- WATER LINE	--- UTILITY POLE	--- VALVE SETTING
-r- FOREIGN PIPELINE	--- AS-CONSTRUCTED BORE	--- MARKER POST
--- EXISTING ROAD	--- MARKER POST	
--- UNDERGROUND COM. LINE		

MATERIAL SUMMARY			MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4452 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	825 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO			
T1	1 EA	TYPE-1			

REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO.
V2	VALVE SETTING PLAN AND PROFILE VIEW DETAIL "V"	0

REVISIONS		
NO.	DATE	DESCRIPTION
		AS CONSTRUCTED

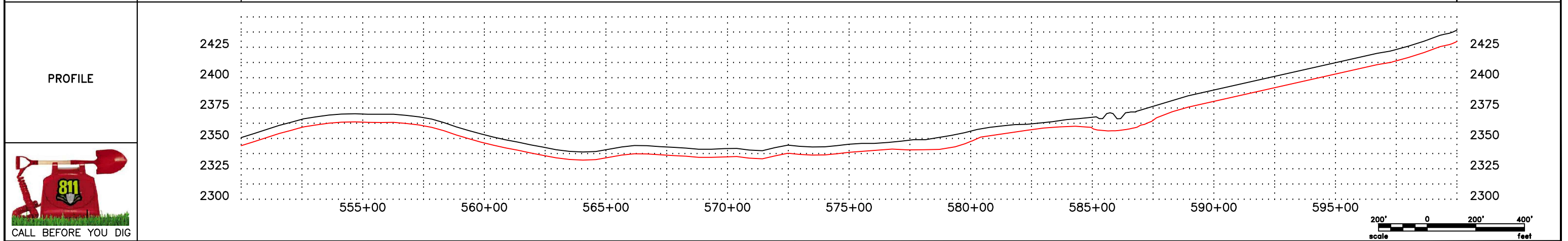
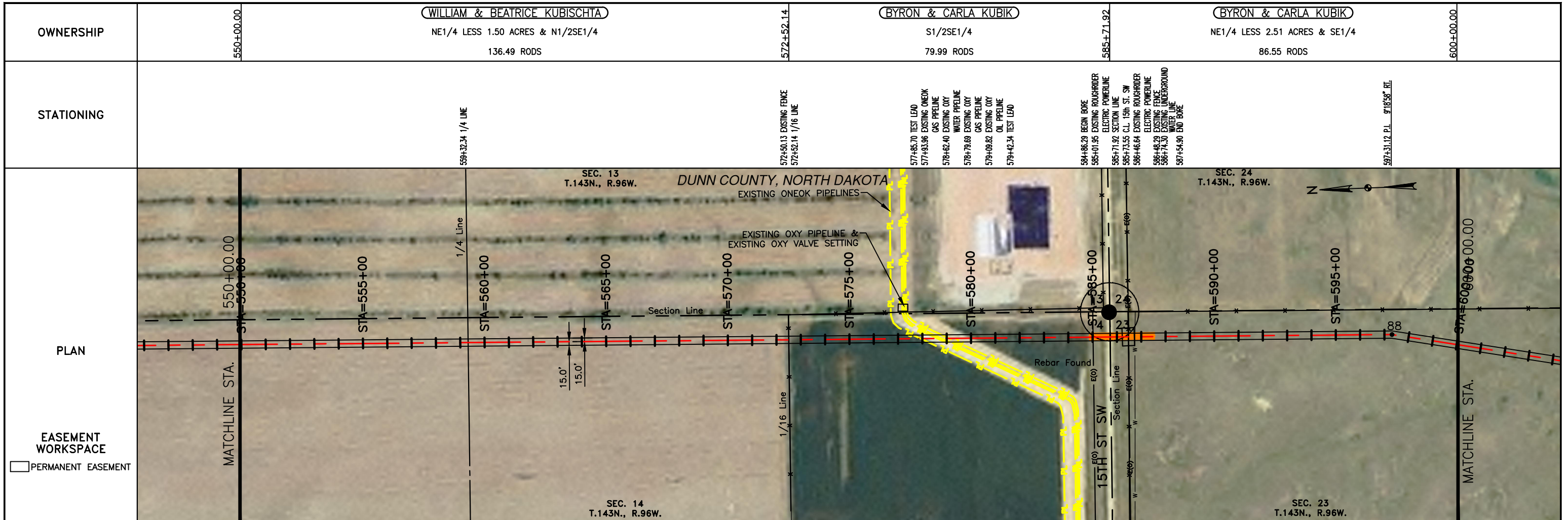
SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 17

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
 SECTIONS 11 & 14, T143N, R96W
 DUNN COUNTY, NORTH DAKOTA

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 Bismarck, ND 58503
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LEGEND

—	PROPERTY LINE	— x —	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
—	PIPELINE CENTERLINE	E(0)	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4835 LF	16" OD, 0.281" WT. API 5L X70, 12-15 MIL FIB
2	260 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO
T1	2 EA	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

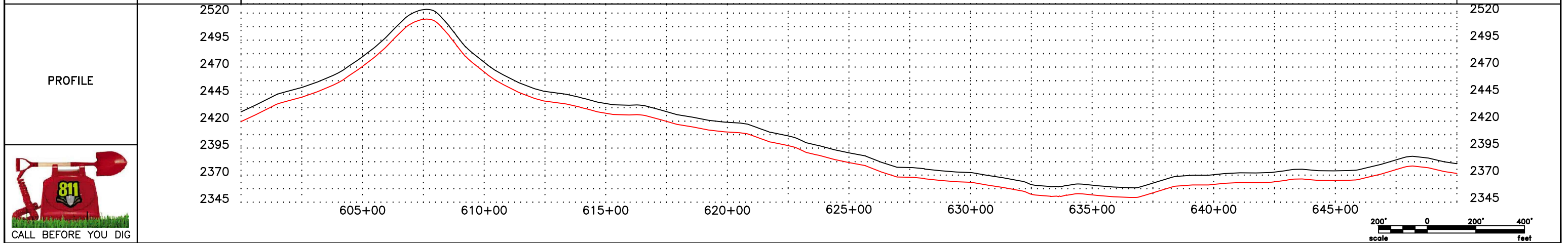
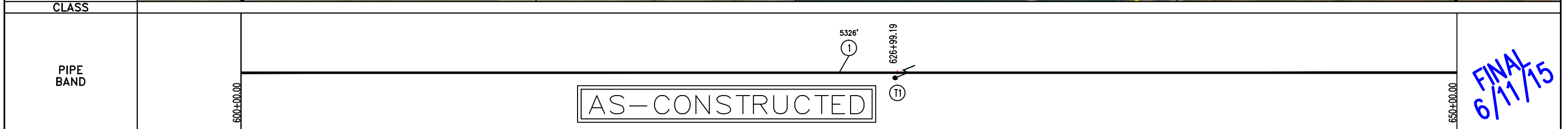
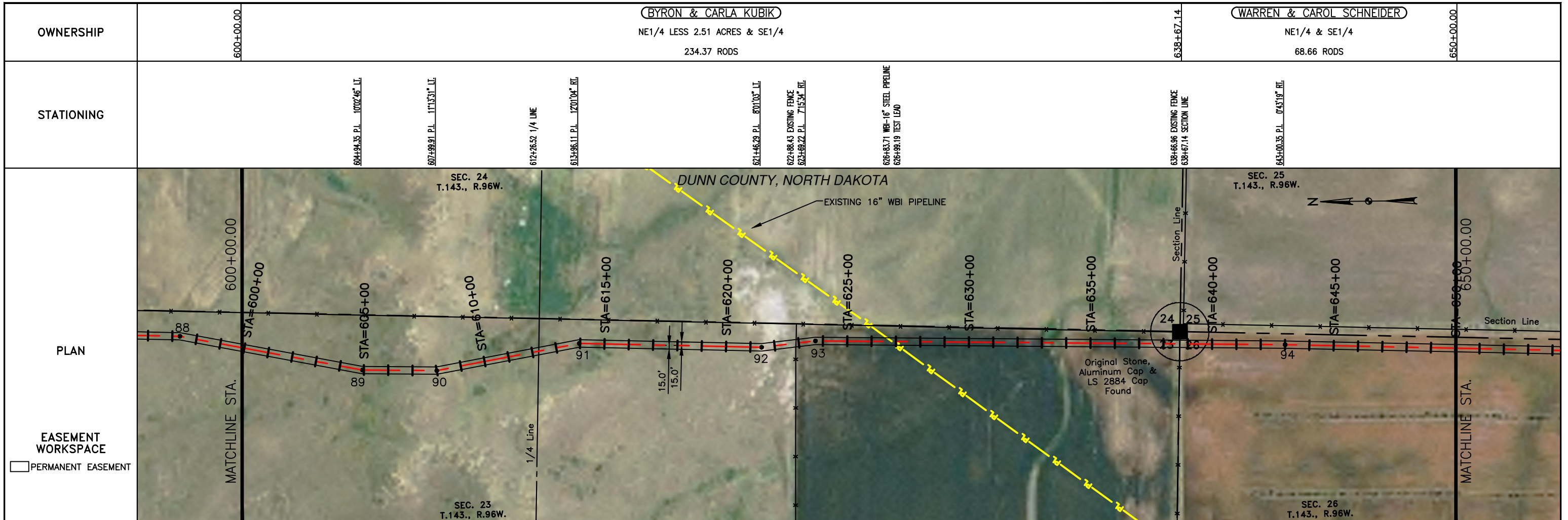
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 18

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 14 & 23, T144N, R96W
DUNN COUNTY, NORTH DAKOTA

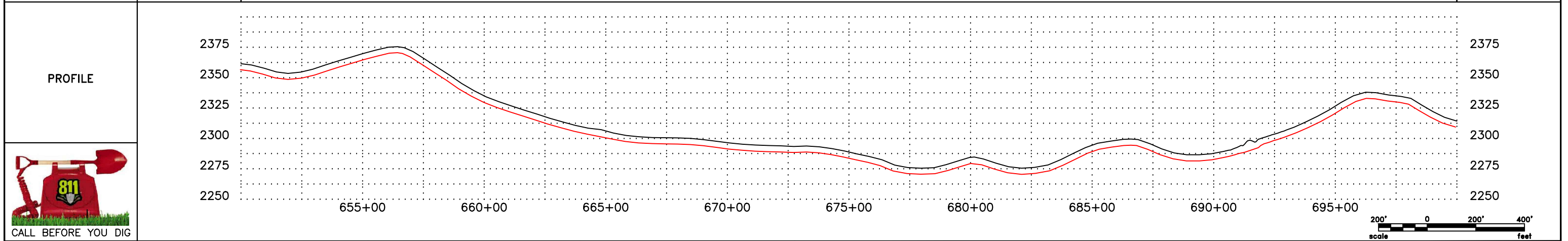
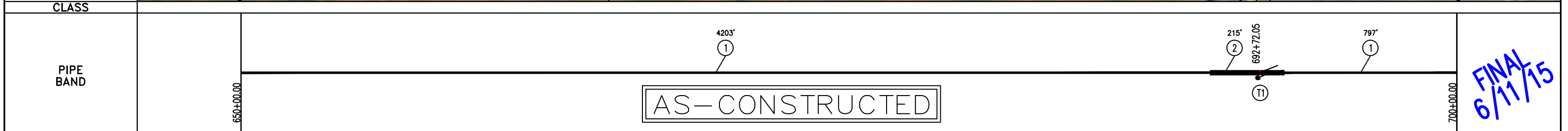
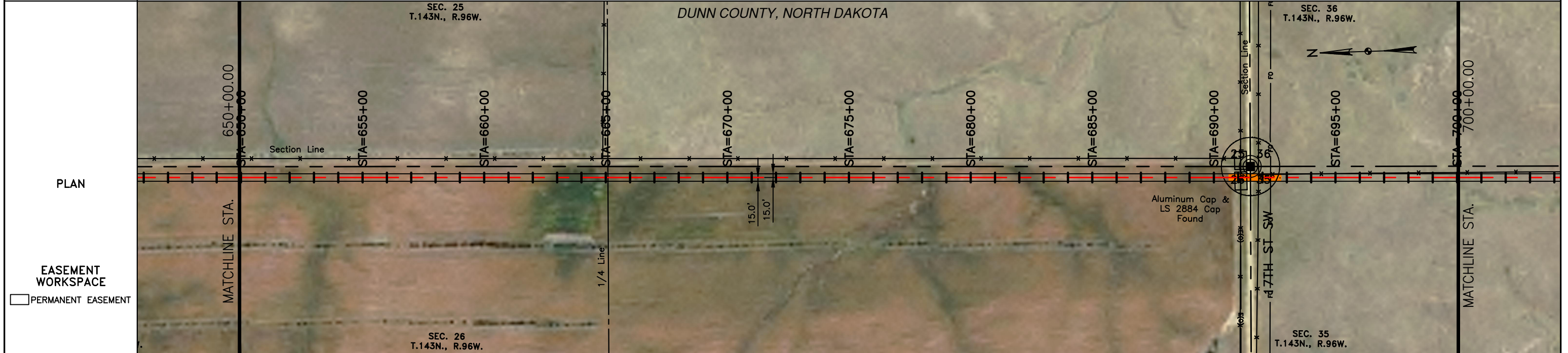
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Bismarck, ND 58503
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LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	5326 LF					0	6/11/15
- - -	SECTION LINE	11	1 EA						
- . - . -	EASEMENT LINE								
- - -	PIPELINE CENTERLINE								
- - -	WATER LINE								
- - -	FOREIGN PIPELINE								
- - -	EXISTING ROAD								
- - -	UNDERGROUND COM. LINE								
- x - x -	BARBED WIRE FENCE								
- o - o -	FIBER OPTIC COM. LINE								
- - -	RAILROAD								
- - -	OVERHEAD ELECTRIC								
- - -	UTILITY POLE								
- - -	AS-CONSTRUCTED BORE								
- - -	MARKER POST								
- - -	AVOIDANCE AREA								
- - -	WETLAND								
- - -	EASEMENT								
- - -	TEST LEAD								
- - -	VALVE SETTING								

OWNERSHIP: WARREN & CAROL SCHNEIDER, NE1/4 & SE1/4, 251.55 RODS (left); WARREN & CAROL SCHNEIDER, NE1/4 & SE1/4, 51.48 RODS (right)

STATIONING: 650+00.00 to 700+00.00



LEGEND

--- PROPERTY LINE	-x-x- BARBED WIRE FENCE	--- AVOIDANCE AREA
--- SECTION LINE	-FO- FIBER OPTIC COM. LINE	--- WETLAND
--- EASEMENT LINE	--- RAILROAD	--- EASEMENT
--- PIPELINE CENTERLINE	--- OVERHEAD ELECTRIC	--- TEST LEAD
-w- WATER LINE	--- UTILITY POLE	--- VALVE SETTING
-r- FOREIGN PIPELINE	--- AS-CONSTRUCTED BORE	--- MARKER POST
--- EXISTING ROAD	--- MARKER POST	
--- UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
1	5000 LF	16" OD, 0.281" WT. API 5L X70, 12-15 MIL FIB
2	215 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO
T1	1 EA	TYPE-1

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
 DATE: 11/7/14
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 20

BOE Bakken Oil Express BOE PIPELINE, LLC.

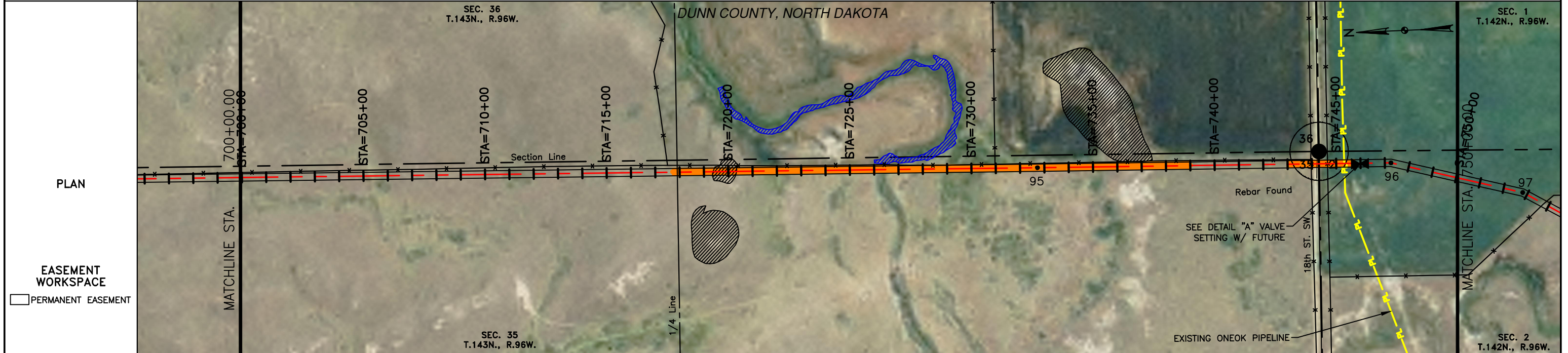
BOE PIPELINE PHASE I
 SECTIONS 26 & 35, T143N, R96W
 DUNN COUNTY, NORTH DAKOTA

KLJ

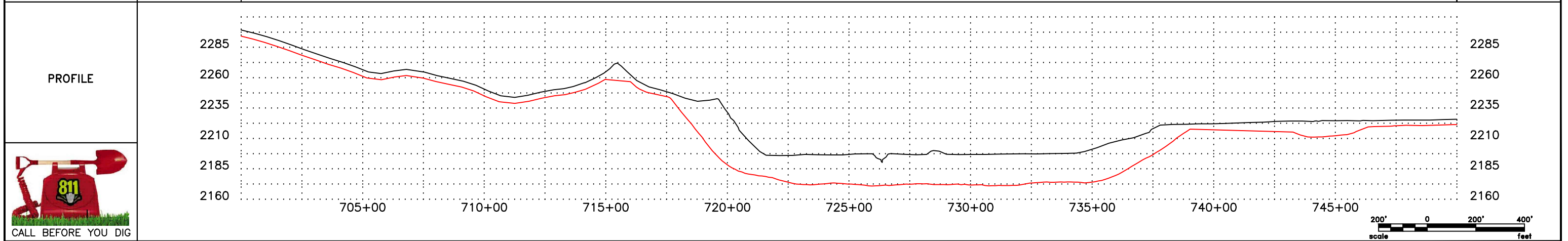
4585 Coleman Street
 Bismarck, ND 58503

OWNERSHIP: WARREN & CAROL SCHNEIDER (NE1/4 & SE1/4, 268.51 RODS) | DAVID & LAURA SADOWSKY (LOTS 1, S1/2NE1/4, 34.52 RODS)

STATIONING: 700+00.00 to 750+00.00



CLASS: [Blank]



LEGEND

--- PROPERTY LINE	-x-x- BARBED WIRE FENCE	--- AVOIDANCE AREA
- - - SECTION LINE	-FO- FIBER OPTIC COM. LINE	--- WETLAND
- - - EASEMENT LINE	RAILROAD	--- EASEMENT
- - - PIPELINE CENTERLINE	OVERHEAD ELECTRIC	--- TEST LEAD
-w- WATER LINE	UTILITY POLE	--- VALVE SETTING
-y- FOREIGN PIPELINE	AS-CONSTRUCTED BORE	
- - - EXISTING ROAD	MARKER POST	
- - - UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	2882 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	2417 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ARC			
T1	1 EA	TYPE-1			

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
V1	VALVE SETTING W/ FUTURE PLAN & PROFILE VIEW DETAIL "A"	0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
AS	CONSTRUCTED	

SCALE: 1" = 400'

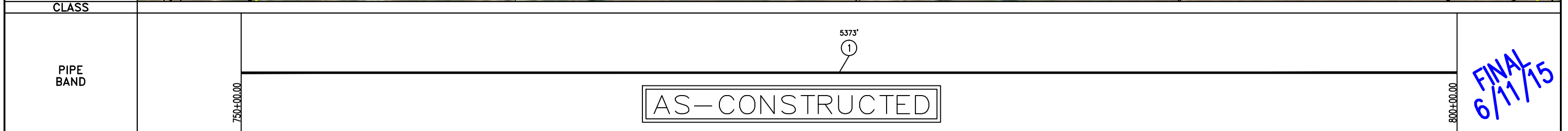
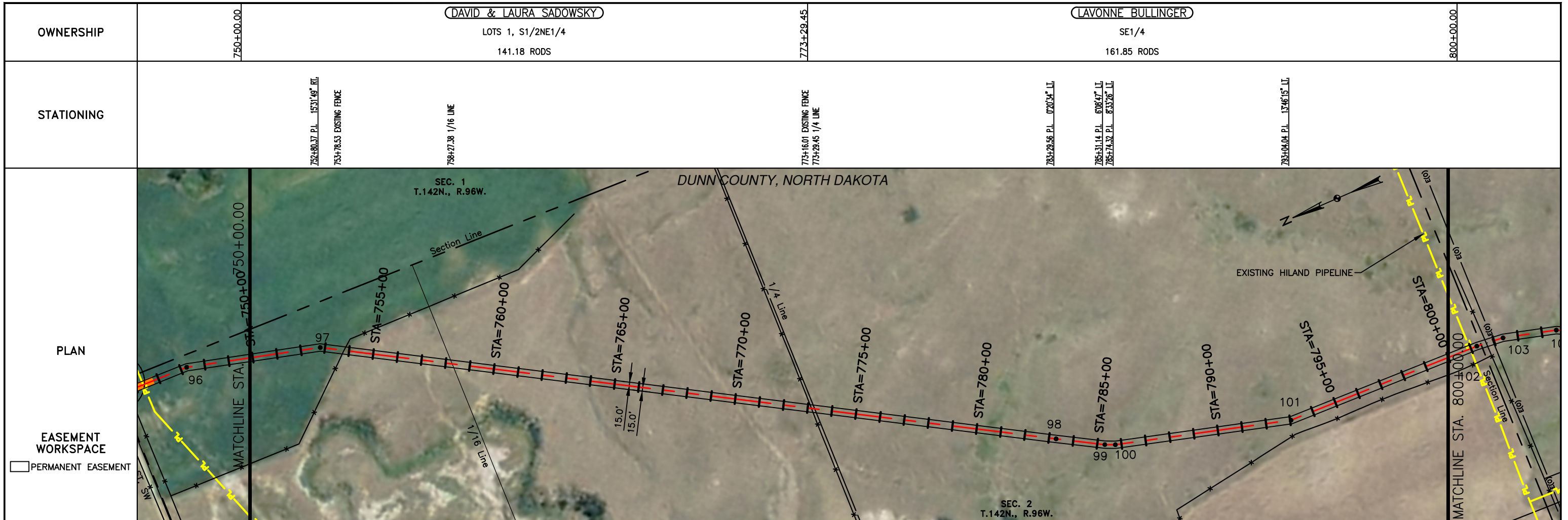
DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: [Blank]
 SHEET: 21

BOE PIPELINE, LLC.

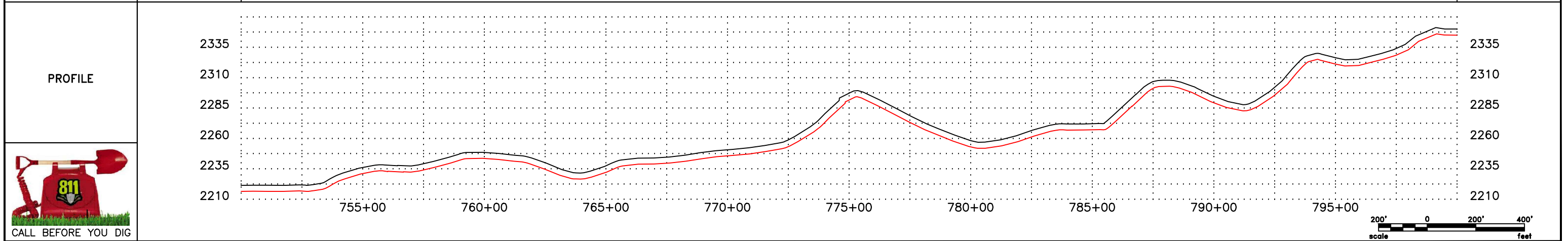
BOE PIPELINE PHASE I
 SECTIONS 35, T143N, R96W & SECTION 2, T142N, R96W
 DUNN COUNTY, NORTH DAKOTA

KLJ

4585 Coleman Street
 Bismarck, ND 58503
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FINAL
6/11/15



LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- - -	EASEMENT LINE
- - -	PIPELINE CENTERLINE
- - -	WATER LINE
- - -	FOREIGN PIPELINE
- - -	EXISTING ROAD
- - -	UNDERGROUND COM. LINE
- x -	BARBED WIRE FENCE
- o -	FIBER OPTIC COM. LINE
- - -	RAILROAD
- - -	OVERHEAD ELECTRIC
- - -	UTILITY POLE
- - -	AS-CONSTRUCTED BORE
- - -	MARKER POST
▨	AVOIDANCE AREA
▨	WETLAND
▨	EASEMENT
▨	TEST LEAD
▨	VALVE SETTING

MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION
1	5373 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB

MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION

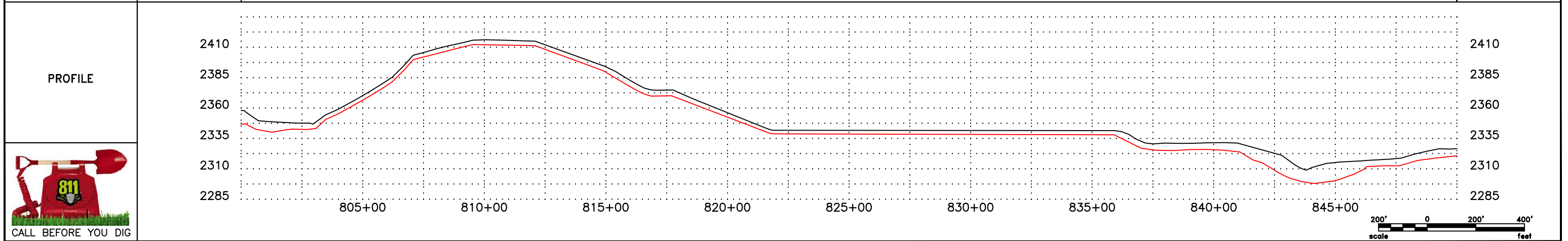
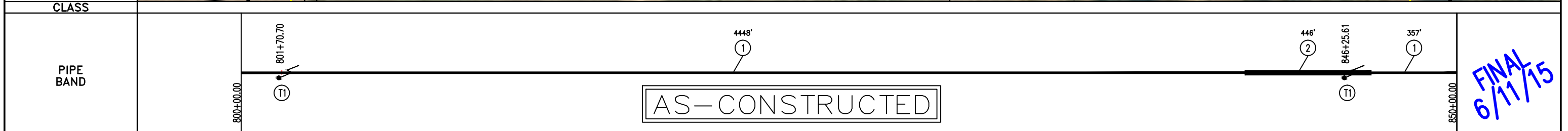
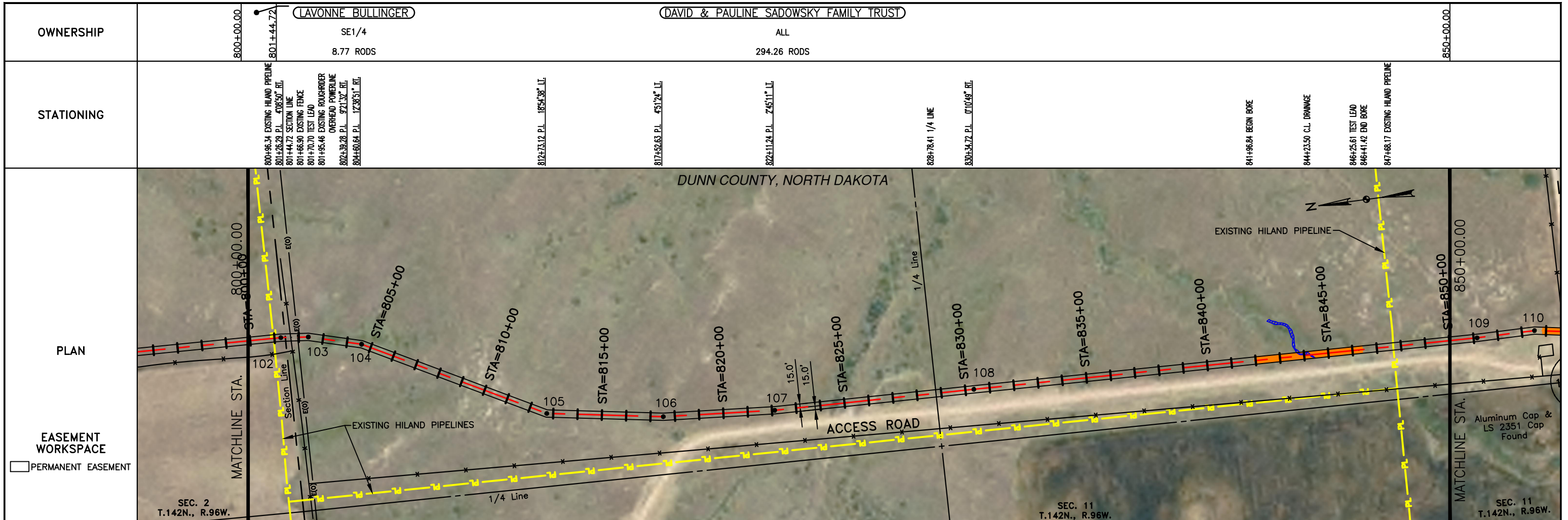
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DWG. NO.	DESCRIPTION

REVISIONS	
NO.	DATE
0	6/11/15

SCALE: 1" = 400'
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 22

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
 SECTION 2, T142N, R96W
 DUNN COUNTY, NORTH DAKOTA

KLJ
 4585 Coleman Street
 Bismarck, ND 58503
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LEGEND

--- PROPERTY LINE	-x-x- BARBED WIRE FENCE	--- AVOIDANCE AREA
- - - SECTION LINE	-FO- FIBER OPTIC COM. LINE	--- WETLAND
- - - EASEMENT LINE	-R- RAILROAD	--- EASEMENT
- - - PIPELINE CENTERLINE	-E(0)- OVERHEAD ELECTRIC	--- TEST LEAD
-w- WATER LINE	-U- UTILITY POLE	--- VALVE SETTING
-w- FOREIGN PIPELINE	-C- AS-CONSTRUCTED BORE	--- MARKER POST
- - - EXISTING ROAD	-M- MARKER POST	
- - - UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4005 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIBE
2	446 LF	16" OD, 0.304" WT. API 5L X70, 14-16 MIL FIBE, 30-35 MIL AWC
T1	2 EA	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 23

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

KLJ

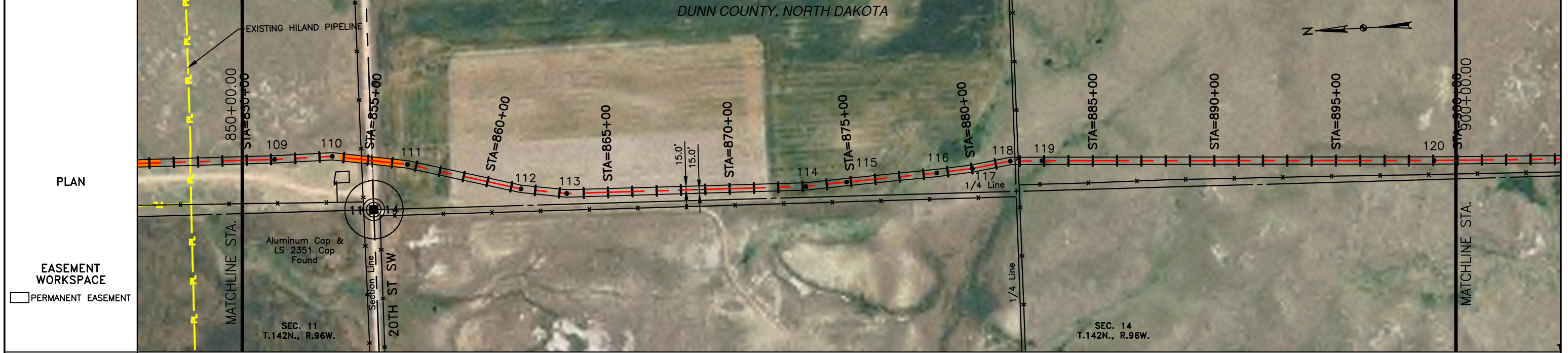
BOE PIPELINE PHASE I
SECTIONS 2 & 11, T142N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

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OWNERSHIP	850+00.00	DAVID & PAULINE SADOWSKY FAMILY TRUST ALL 32.33 RODS	MARK & TINA KOVASH NE1/4 161.44 RODS	881+80.72	DAVID & LAURA M. SADOWSKY NW1/4 & SE1/4 110.26 RODS	900+00.00
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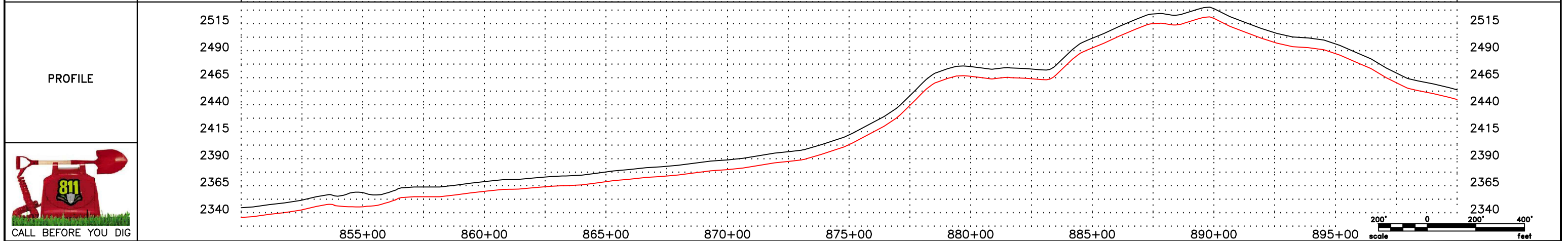
STATIONING	851+14.94 P.L. 1722'16" L.L.	853+52.62 P.L. 911'59" R.L. 853+85.80 BEGIN BORE 854+73.29 EXISTING FENCE 855+16.88 SECTION LINE 855+18.76 C.L. 20th ST SW	856+35.01 END BORE 856+63.88 P.L. 601'12" R.L.	861+41.22 P.L. 623'92" L.L.	863+29.94 P.L. 726'45" L.L.	873+13.31 P.L. 472'46" L.L.	874+82.31 P.L. 072'29" R.L.	878+54.54 P.L. 175'11" L.L.	880+02.07 P.L. 351'29" L.L.	881+61.46 P.L. 1037'23" R.L. 881+80.72 1/4 LINE 881+94.05 EXISTING FENCE 882+91.21 P.L. 072'15" R.L.	889+03.67 P.L. 072'57" L.L.
------------	------------------------------	--	---	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	---	-----------------------------



CLASS



FINAL
6/11/15



LEGEND

—	PROPERTY LINE	-x-	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	▨	EASEMENT
- - -	PIPELINE CENTERLINE	BOO	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY			MATERIAL SUMMARY			REFERENCE DRAWINGS		REVISIONS	
MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE
1	5005 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE						0	6/11/15
2	251 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ACO							

SCALE: 1" = 400'

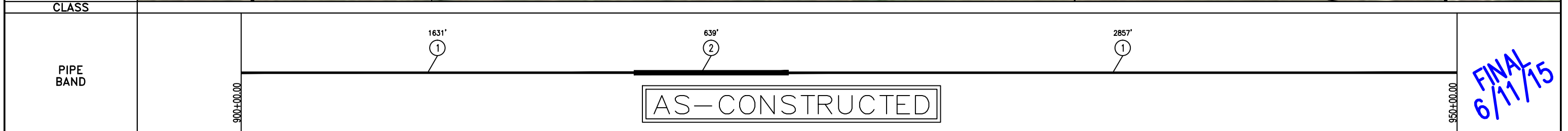
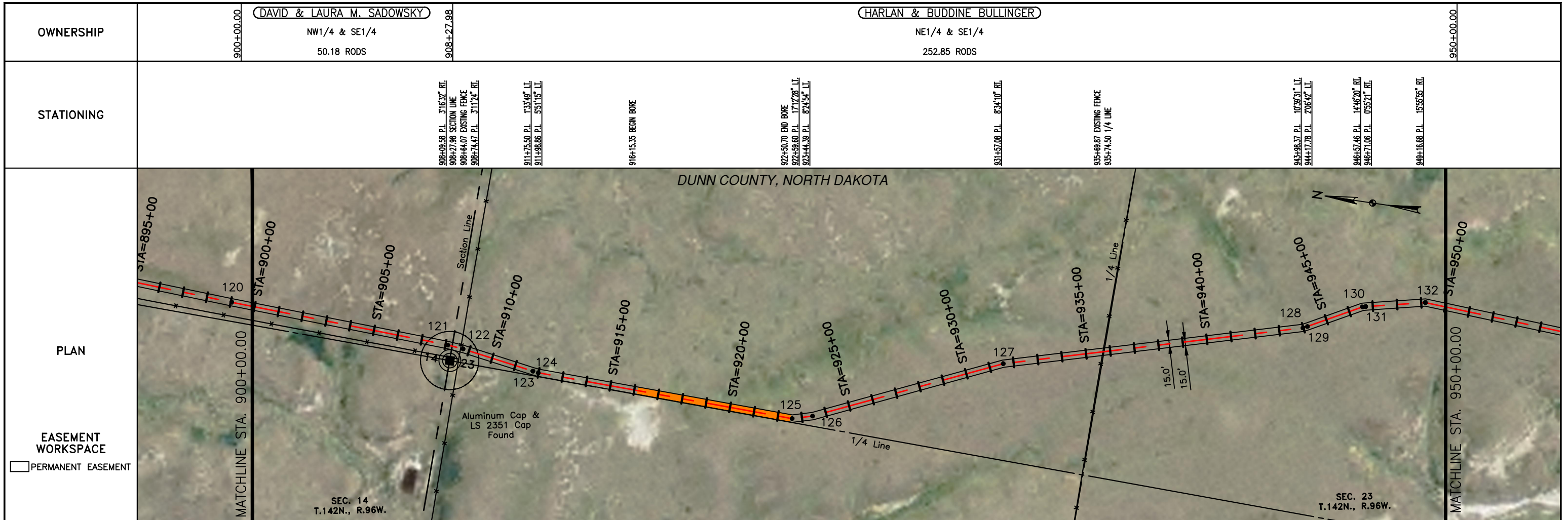
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 24

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

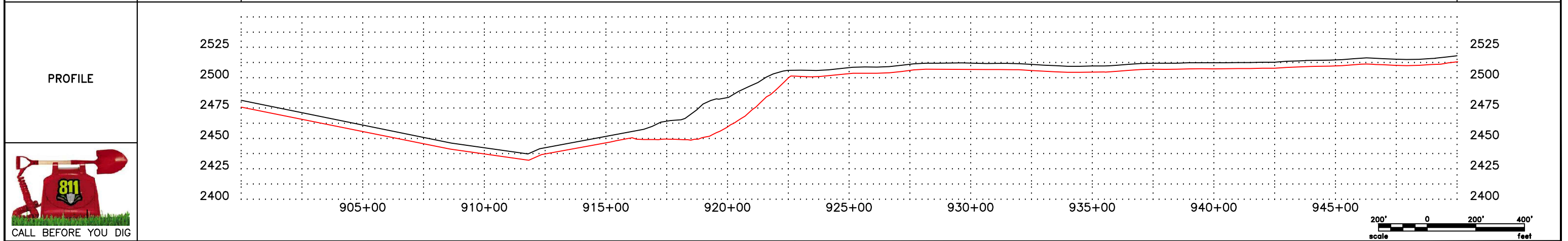
KLJ

BOE PIPELINE PHASE I
SECTIONS 11 & 14, T142N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503



FINAL
6/11/15



LEGEND

—	PROPERTY LINE	— x —	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	- - -	RAILROAD	▨	EASEMENT
- - -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4488 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB
2	630 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 25

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 14 & 23, T142N, R96W
DUNN COUNTY, NORTH DAKOTA

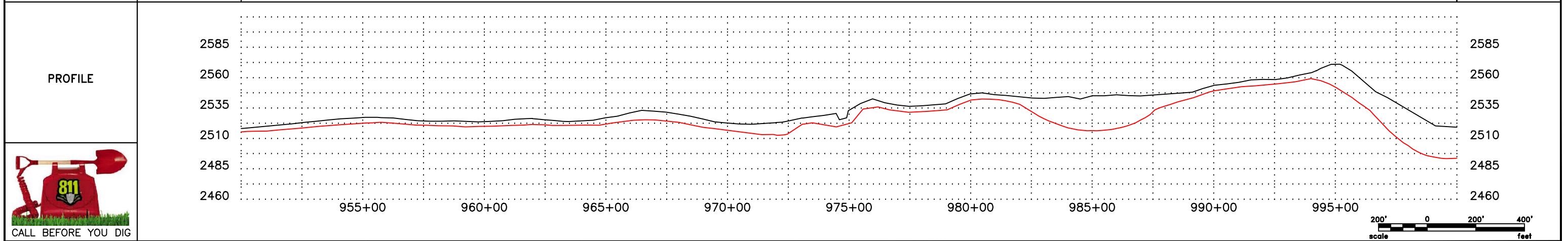
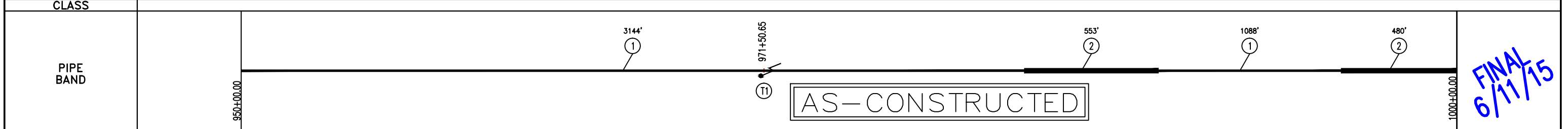
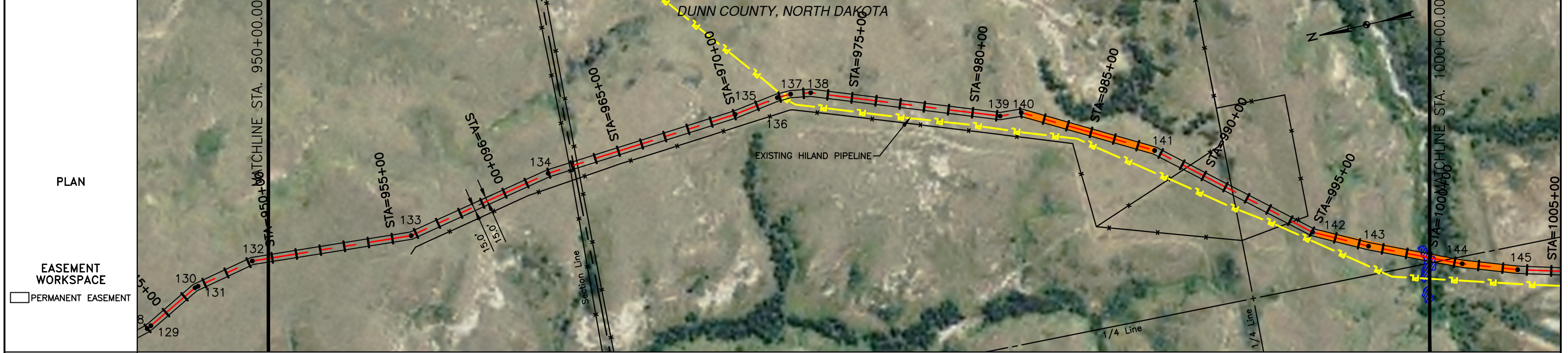
KLJ
4585 Coleman Street
Bismarck, ND 58503
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OWNERSHIP
 HARLAN & BUDDINE BULLINGER
 NE1/4 & SE1/4
 79.23 RODS

HARLAN & BUDDINE BULLINGER
 W1/2 LESS 19.96, 76.76, 94.28, 20.70 ACRES, NE1/4 & SE1/4
 223.80 RODS

STATIONING

955+78.67 P.I. 1523.30' LI.
 961+97.26 P.I. 6591.06' RT.
 962+90.70 EXISTING FENCE
 963+07.33 SECTION LINE
 963+23.44 EXISTING FENCE
 970+03.26 P.I. 4171.16' LI.
 971+50.65 TEST LEAD
 971+89.73 P.I. 7707.02' RT.
 972+14.87 EXISTING HILAND PIPELINE
 972+46.62 P.I. 10391.15' RT.
 973+29.13 P.I. 11001.42' RT.
 981+14.09 P.I. 16171.11' LI.
 982+02.01 P.I. 23053.37' RT.
 982+21.28 BEGIN BORE
 987+72.24 END BORE
 987+72.24 P.I. 113131.48' RT.
 988+22.63 EXISTING FENCE
 991+31.70 1/4 LINE
 994+09.81 EXISTING FENCE
 995+03.39 P.I. 13116.58' LI.
 995+23.44 BEGIN BORE
 997+40.52 P.I. 3741.39' LI.
 999+92.25 CL. OF ROW



LEGEND

— x —	PROPERTY LINE	— x —	BARBED WIRE FENCE	—	AVOIDANCE AREA
—	SECTION LINE	—	FIBER OPTIC COM. LINE	—	WETLAND
—	EASEMENT LINE	—	RAILROAD	—	EASEMENT
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION
1	4232 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	1033 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AWC			
T1	1 EA	TYPE-1			

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

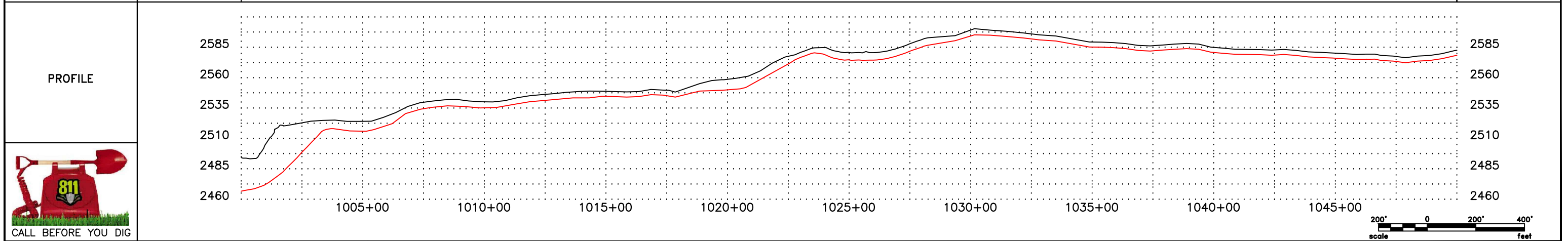
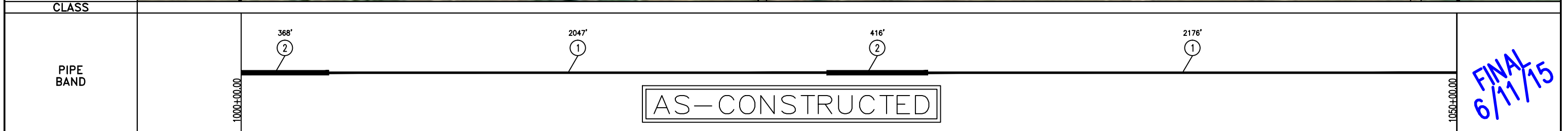
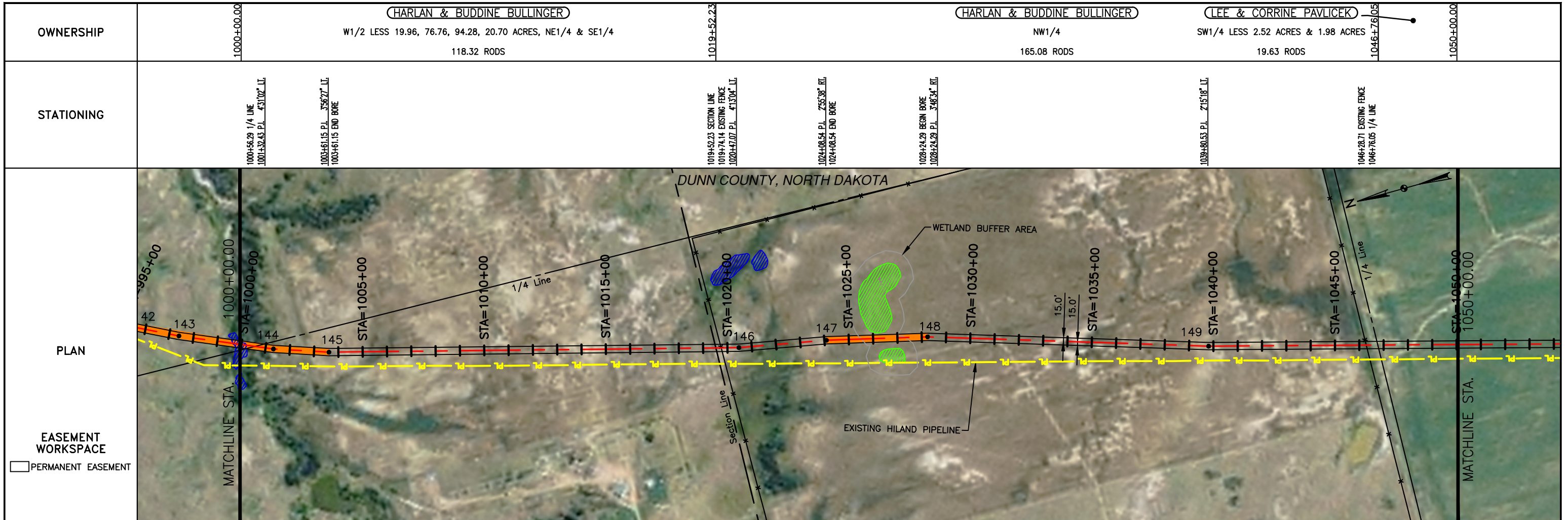
DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 26

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

KLJ

BOE PIPELINE PHASE I
 SECTIONS 23 & 26, T142N, R96W
 DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
 Bismarck, ND 58503



LEGEND

—	PROPERTY LINE	-x-x-	BARBED WIRE FENCE	▨	AVOIDANCE AREA
-o-o-	SECTION LINE	-f-o-	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	-r-r-	RAILROAD	▨	EASEMENT
- - -	PIPELINE CENTERLINE	-e-e-	OVERHEAD ELECTRIC	▨	TEST LEAD
-w-	WATER LINE	-u-u-	UTILITY POLE	▨	VALVE SETTING
-y-y-	FOREIGN PIPELINE	-a-a-	AS-CONSTRUCTED BORE	▨	MARKER POST
-g-g-	EXISTING ROAD	-m-m-	MARKER POST		
- - -	UNDERGROUND COM. LINE				

MATERIAL SUMMARY			MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4375 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	784 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL ANO			

REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15
			AS CONSTRUCTED

SCALE: 1" = 400'

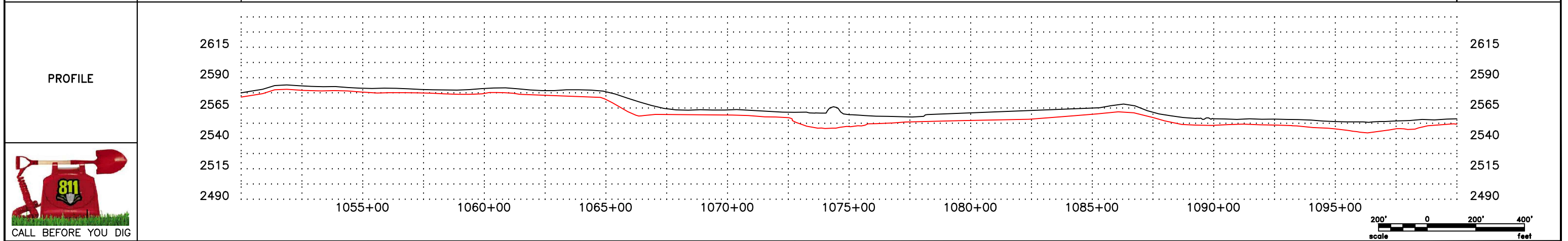
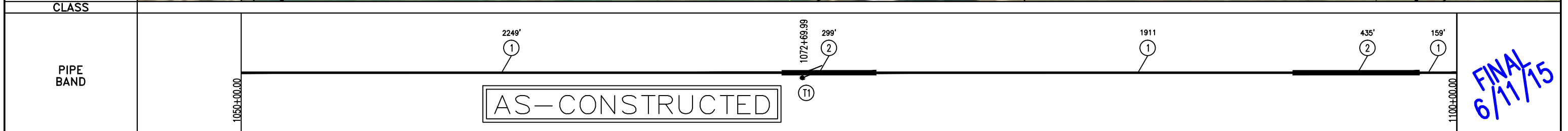
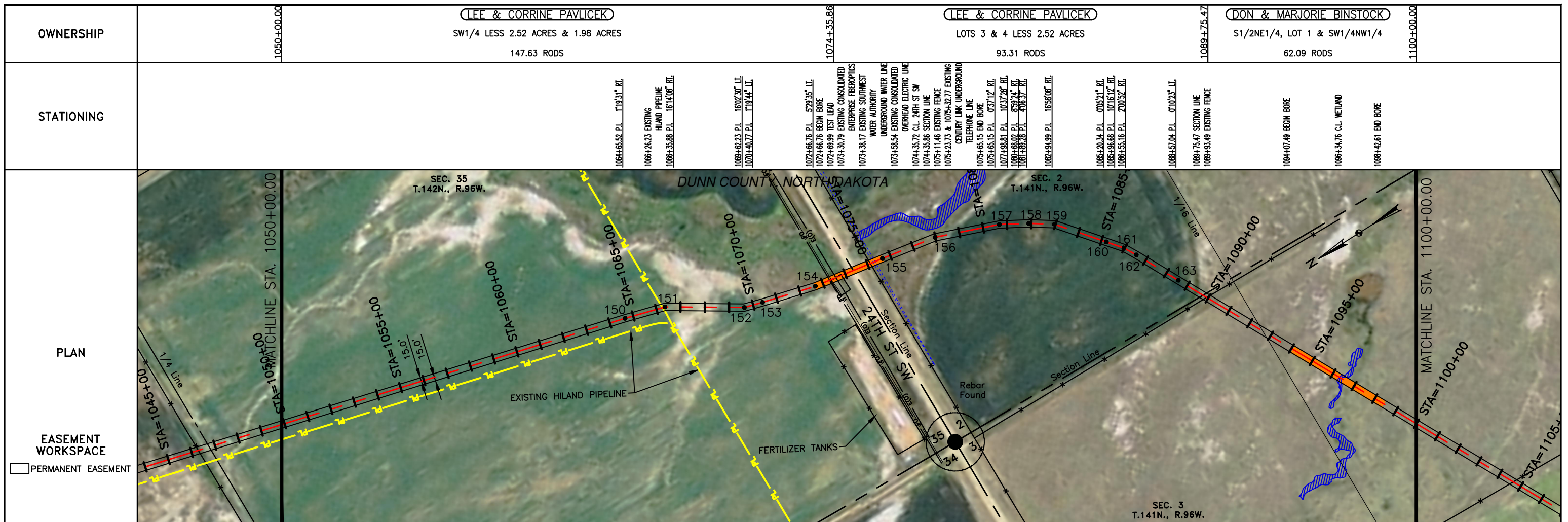
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 27

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

KLJ

BOE PIPELINE PHASE I
SECTIONS 26 & 35, T142N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503
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LEGEND

—	PROPERTY LINE	—x—x—	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	-o-o-	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	▨	EASEMENT
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—w—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—w—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4319 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB
2	734 LF	16" OD, 0.304" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO
T1	1 EA	TYPE-1

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

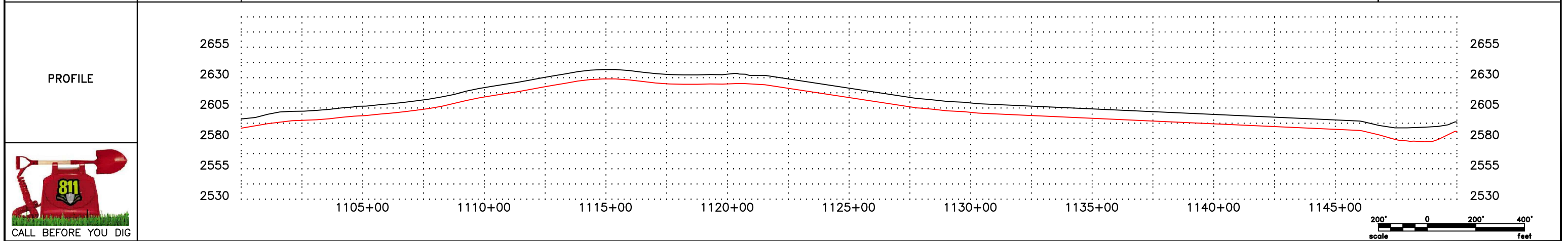
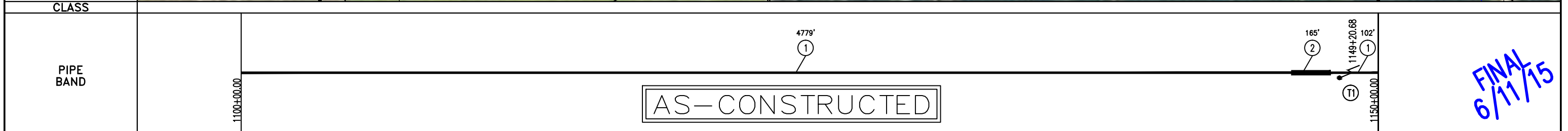
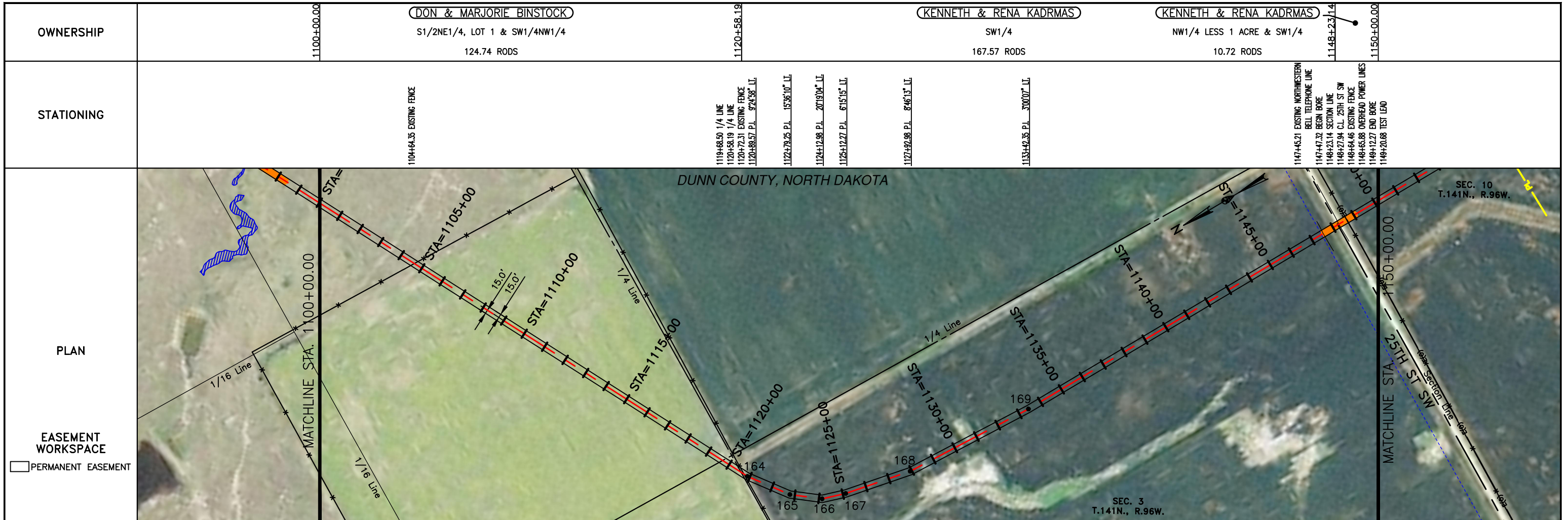
REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'
 DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 28

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
 SECTIONS 36, T142N, R96W & SECTION 2 & 3 T141N, R96W
 DUNN COUNTY, NORTH DAKOTA

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 4585 Coleman Street
 Bismarck, ND 58503
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LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK.NO.	QTY.	MK.NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	4881 LF					0	6/11/15
---	SECTION LINE	2	165 LF						
---	EASEMENT LINE	T1	1 EA						
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 29

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
SECTIONS 3 & 10, T141N, R96W
DUNN COUNTY, NORTH DAKOTA

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Bismarck, ND 58503
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KENNETH & RENA KADRMAS

NW1/4 LESS 1 ACRE & SW1/4

303.03 RODS

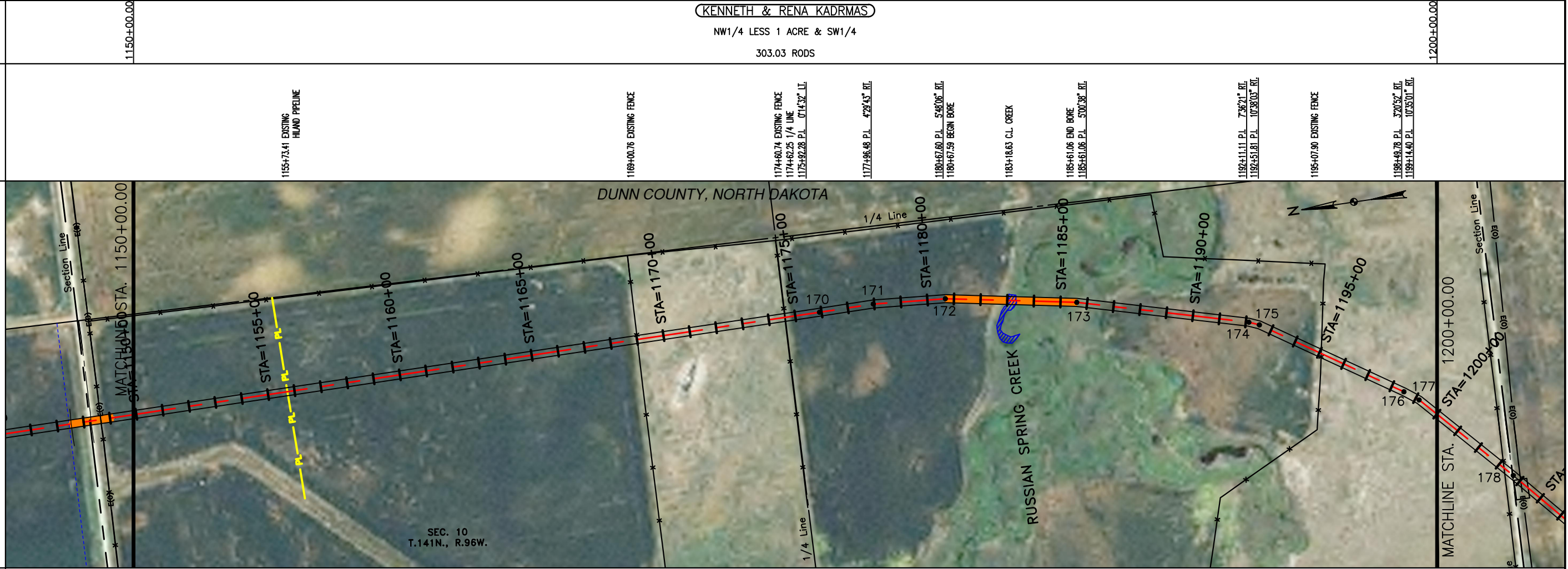
OWNERSHIP

STATIONING

PLAN

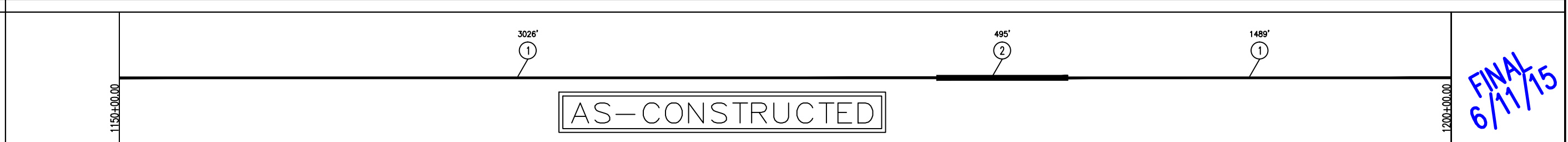
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PERMANENT EASEMENT

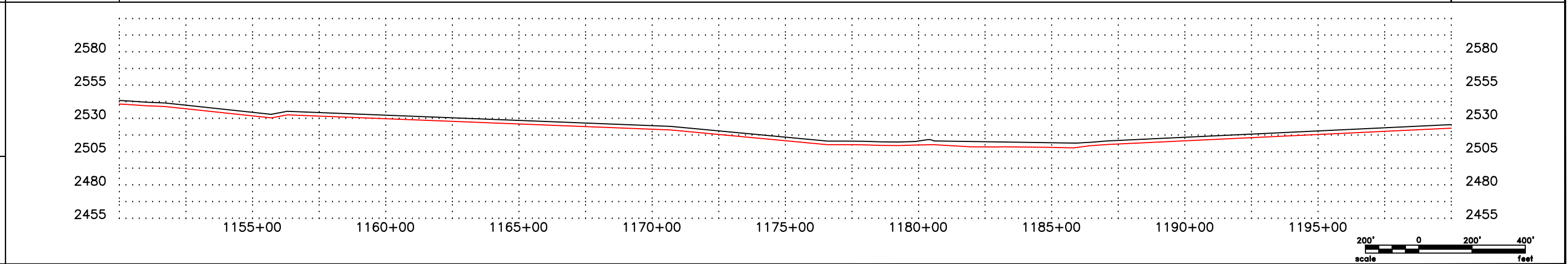


CLASS

PIPE BAND



PROFILE



LEGEND

—	PROPERTY LINE	—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	—	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
- - -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4515 LF	16" OD, 0.281" WT. API 5L X70, 13-15 MIL FIB			
2	495 LF	16" OD, 0.344" WT. API 5L X70, 14-16 MIL FIB, 30-35 MIL AMO			

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS
		0	6/11/15	AS CONSTRUCTED

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

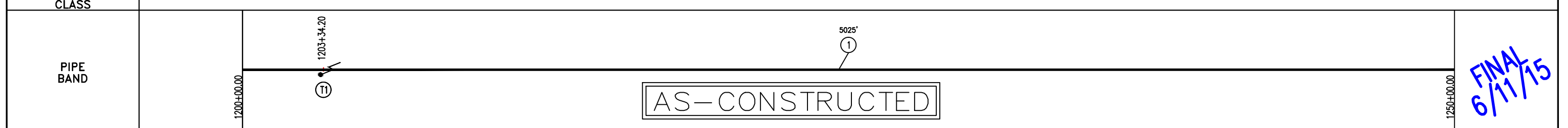
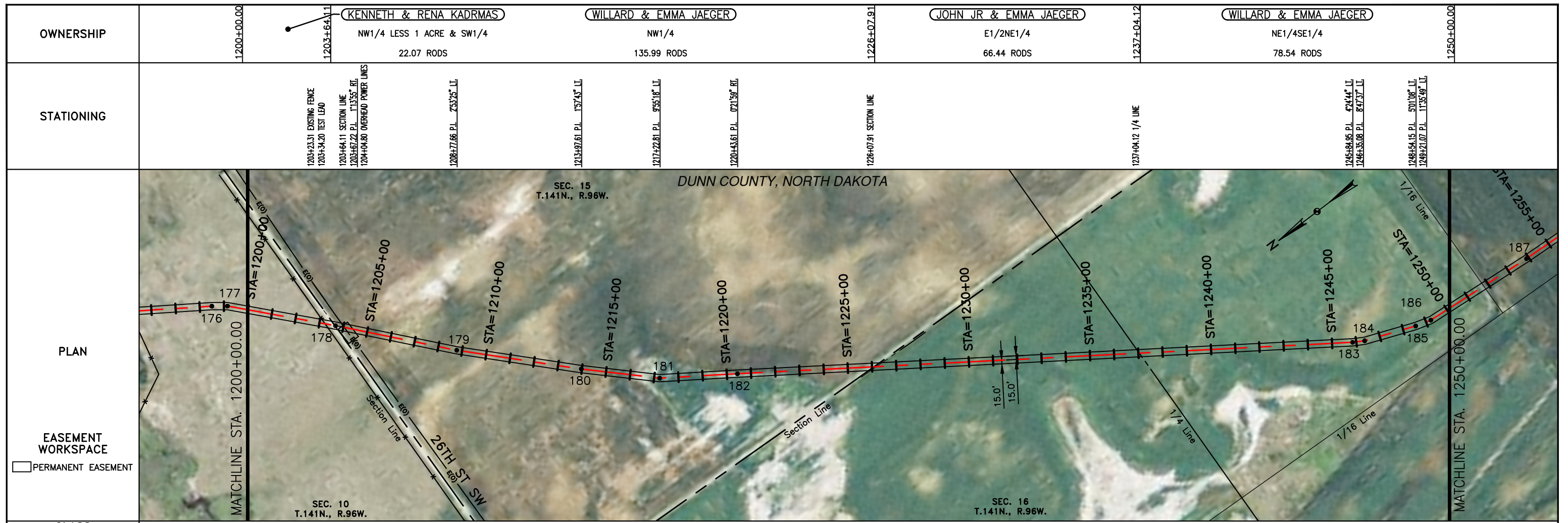
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 30

BOE **BAKKEN OIL EXPRESS** BOE PIPELINE, LLC.

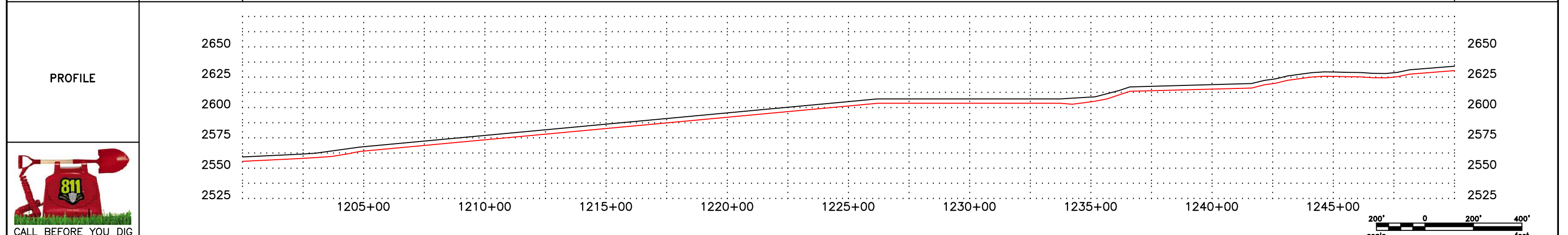
KLJ

BOE PIPELINE PHASE I
SECTION 10, T141N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503



FINAL
6/11/15



LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	5025 LF					0	6/11/15
---	SECTION LINE	TI	1 EA						
---	EASEMENT LINE								
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

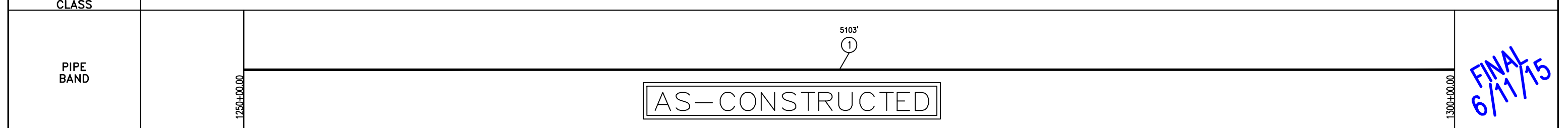
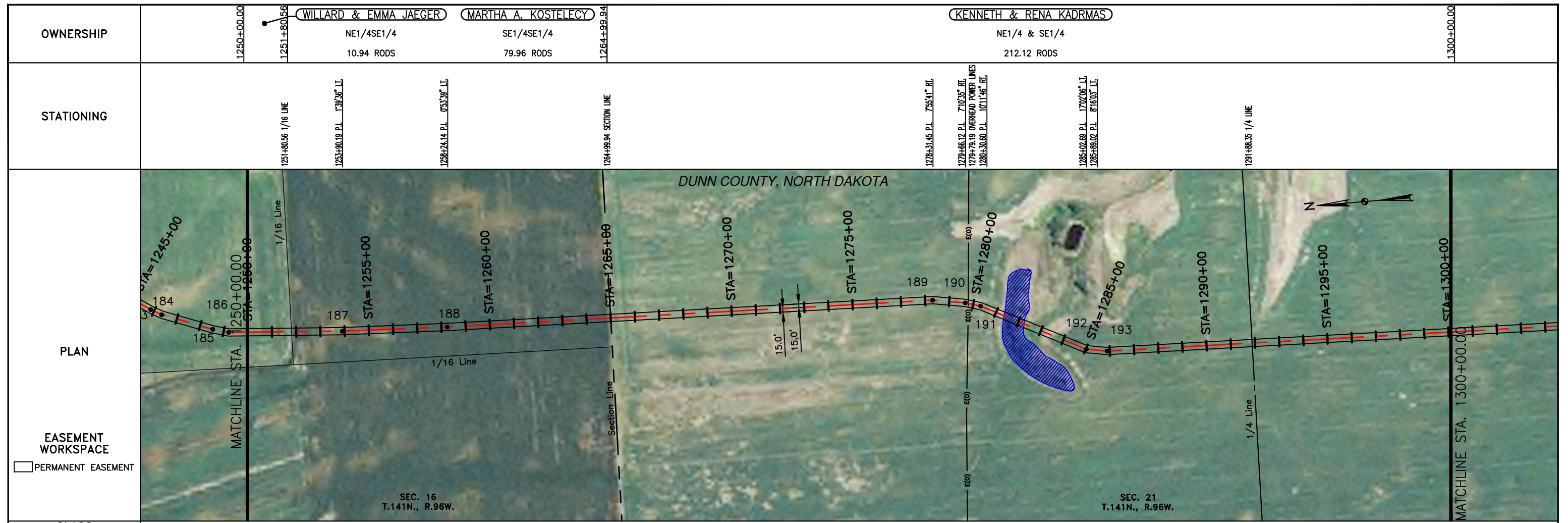
BOE PIPELINE PHASE i
SECTIONS 10, 15 & 16, T141N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

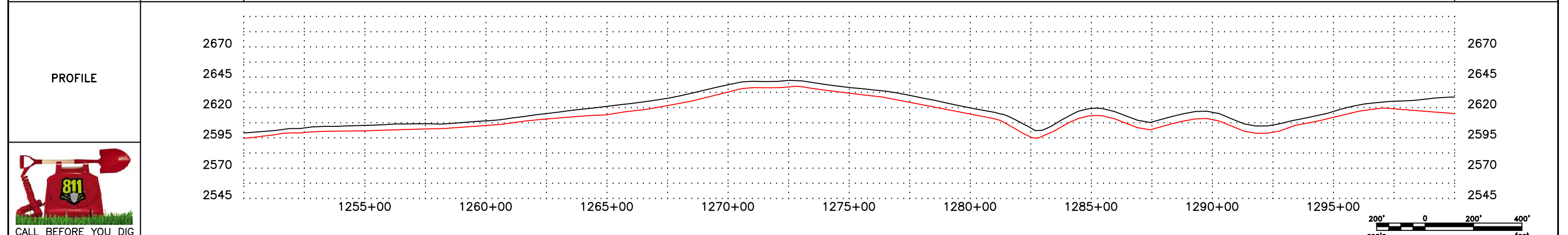
KLJ

5855 Coleman Street
Bismarck, ND 58503

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FINAL
6/11/15



MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
1	5103 LF					0	6/11/15

LEGEND			
—	PROPERTY LINE	—	WETLAND EASEMENT
- - -	SECTION LINE	—	WETLAND EASEMENT
- - -	EASEMENT LINE	—	WETLAND EASEMENT
—	PIPELINE CENTERLINE	—	WETLAND EASEMENT
—	WATER LINE	—	WETLAND EASEMENT
—	FOREIGN PIPELINE	—	WETLAND EASEMENT
—	EXISTING ROAD	—	WETLAND EASEMENT
—	UNDERGROUND COM. LINE	—	WETLAND EASEMENT
—	BARBED WIRE FENCE	—	WETLAND EASEMENT
—	FIBER OPTIC COM. LINE	—	WETLAND EASEMENT
—	RAILROAD	—	WETLAND EASEMENT
—	OVERHEAD ELECTRIC	—	WETLAND EASEMENT
—	UTILITY POLE	—	WETLAND EASEMENT
—	AS-CONSTRUCTED BORE	—	WETLAND EASEMENT
—	MARKER POST	—	WETLAND EASEMENT
—	AVOIDANCE AREA	—	WETLAND EASEMENT
—	TEST LEAD	—	WETLAND EASEMENT
—	VALVE SETTING	—	WETLAND EASEMENT

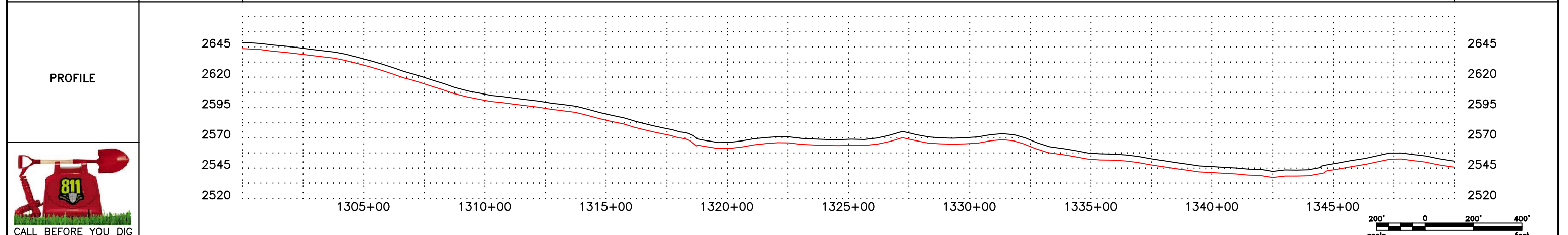
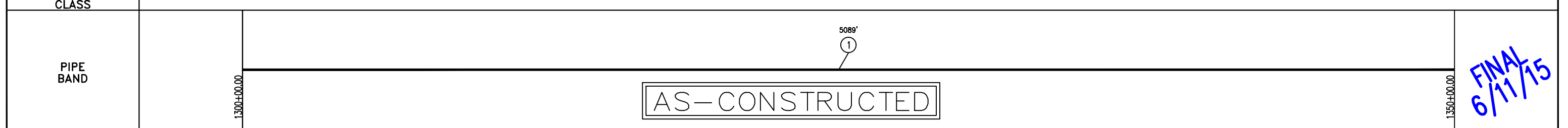
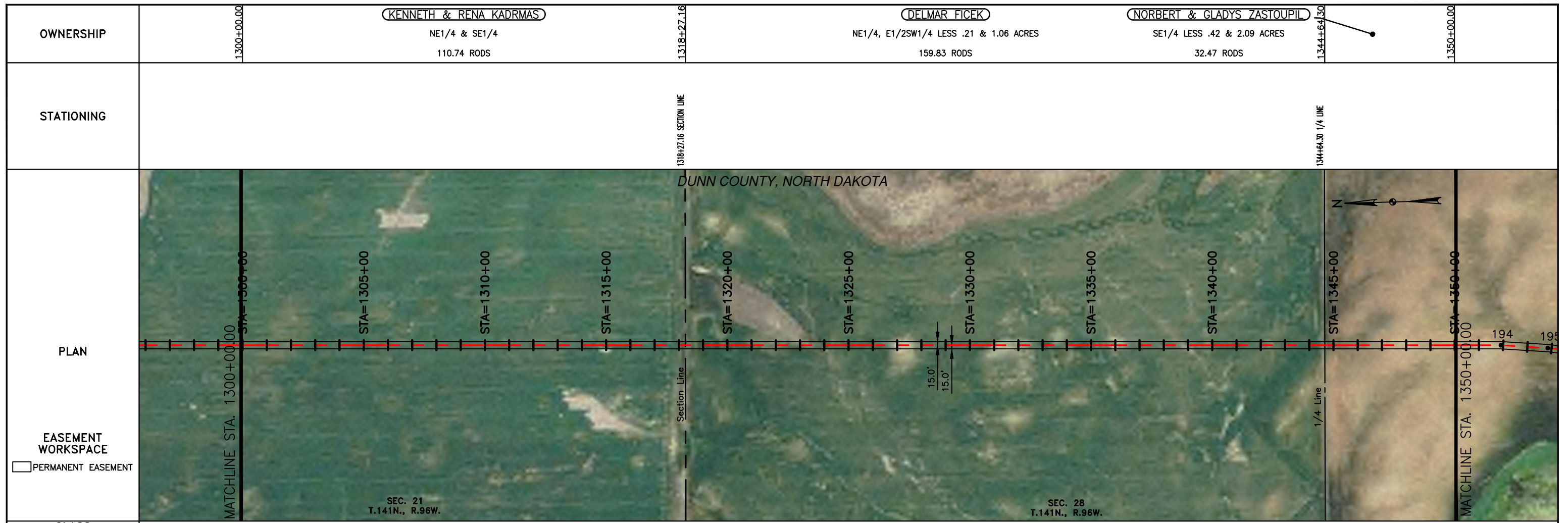
BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 16 & 21, T141N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

KLJ

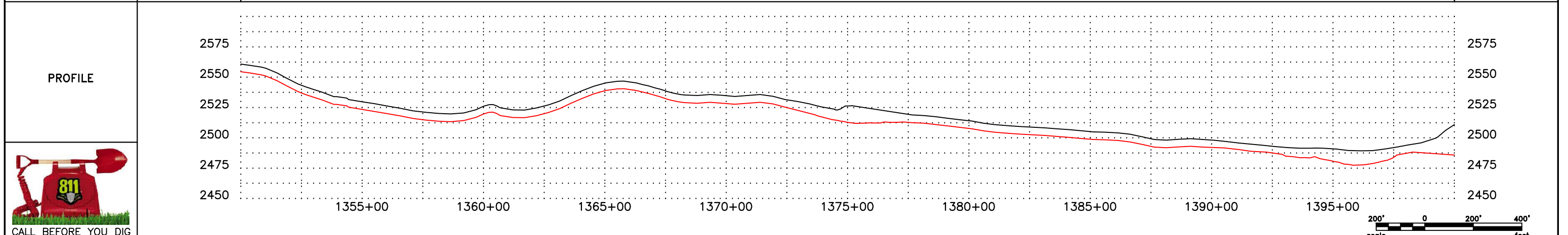
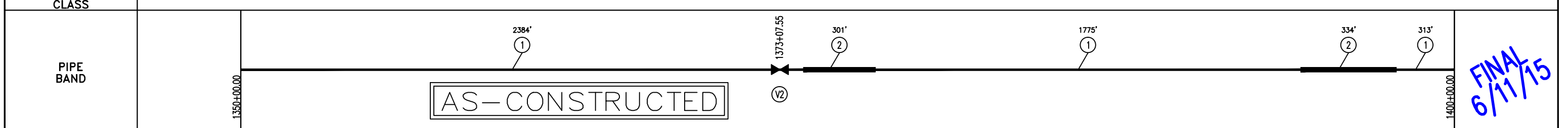
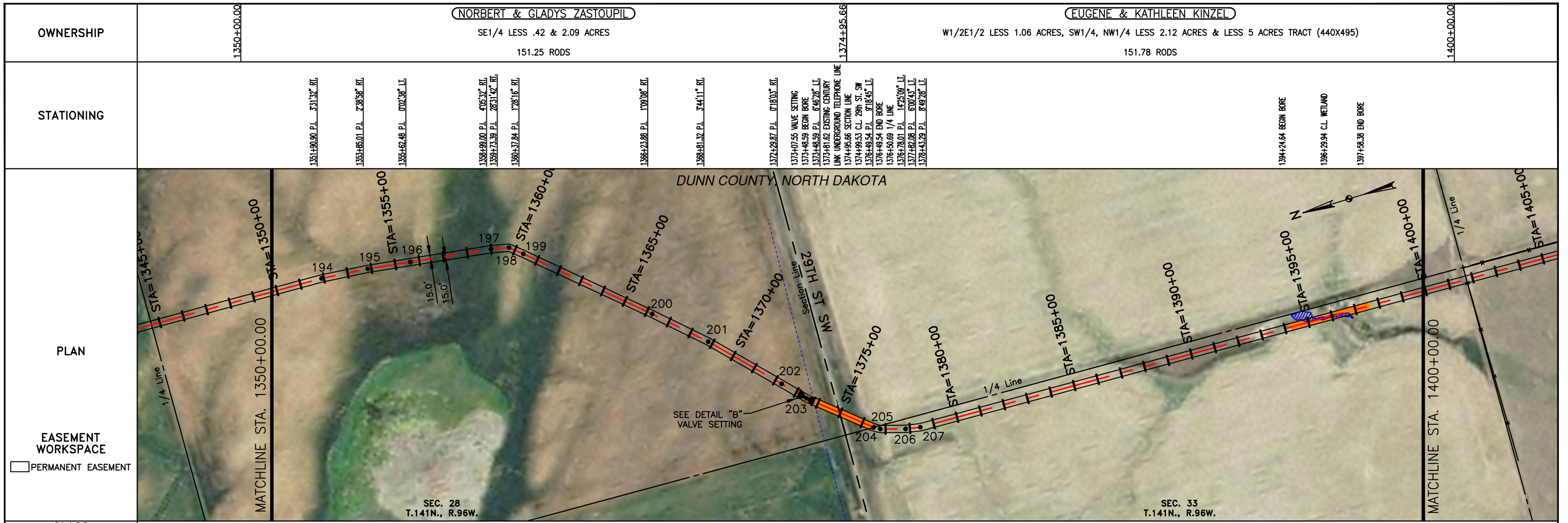
4585 Coleman Street
Bismarck, ND 58503



LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		SCALE: 1" = 400'	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE	DESCRIPTION	SCALE
---	PROPERTY LINE	1	5089 LF					0	6/11/15	AS CONSTRUCTED	1" = 400'
- - -	SECTION LINE										
- - -	EASEMENT LINE										
- - -	PIPELINE CENTERLINE										
- - -	WATER LINE										
- - -	FOREIGN PIPELINE										
- - -	EXISTING ROAD										
- - -	UNDERGROUND COM. LINE										
---	BARBED WIRE FENCE										
---	FIBER OPTIC COM. LINE										
---	RAILROAD										
---	OVERHEAD ELECTRIC										
---	UTILITY POLE										
---	AS-CONSTRUCTED BORE										
---	MARKER POST										
---	AVOIDANCE AREA										
---	WETLAND EASEMENT										
---	TEST LEAD										
---	VALVE SETTING										

BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 21 & 28, T141N, R96W
DUNN COUNTY, NORTH DAKOTA



MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK. NO.	QTY.	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
1	4472 LF			V2	98 VALVE SETTING PLAN AND PROFILE VIEW DETAIL "B"	0	6/11/15
2	635 LF						

LEGEND			
—	PROPERTY LINE	—	BARBED WIRE FENCE
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE
- - -	EASEMENT LINE	- - -	RAILROAD
- - -	PIPELINE CENTERLINE	- - -	OVERHEAD ELECTRIC
- - -	WATER LINE	- - -	UTILITY POLE
- - -	FOREIGN PIPELINE	- - -	AS-CONSTRUCTED BORE
- - -	EXISTING ROAD	- - -	MARKER POST
- - -	UNDERGROUND COM. LINE	- - -	WETLAND EASEMENT
- - -		- - -	TEST LEAD
- - -		- - -	VALVE SETTING

SCALE: 1" = 400'

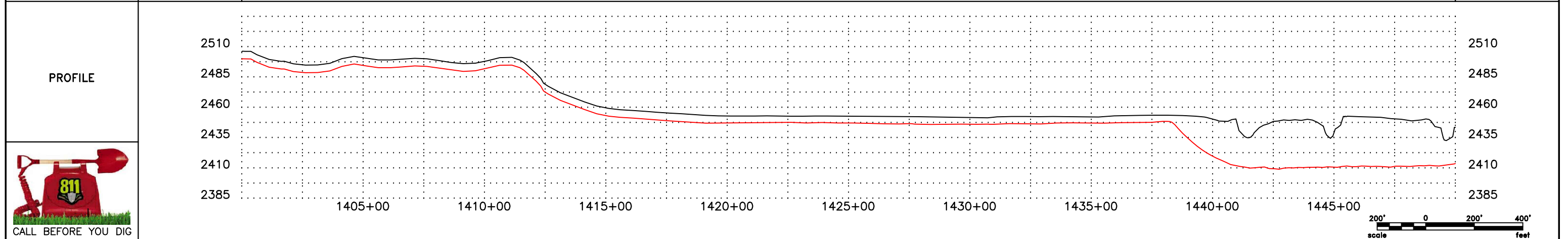
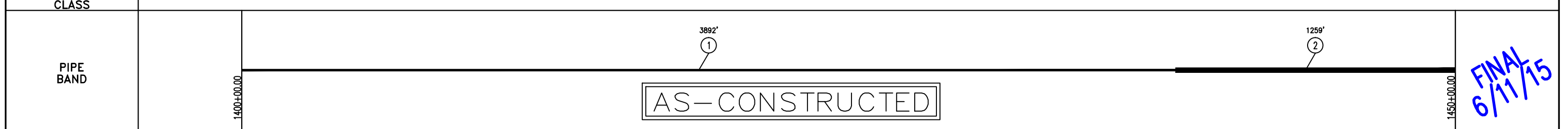
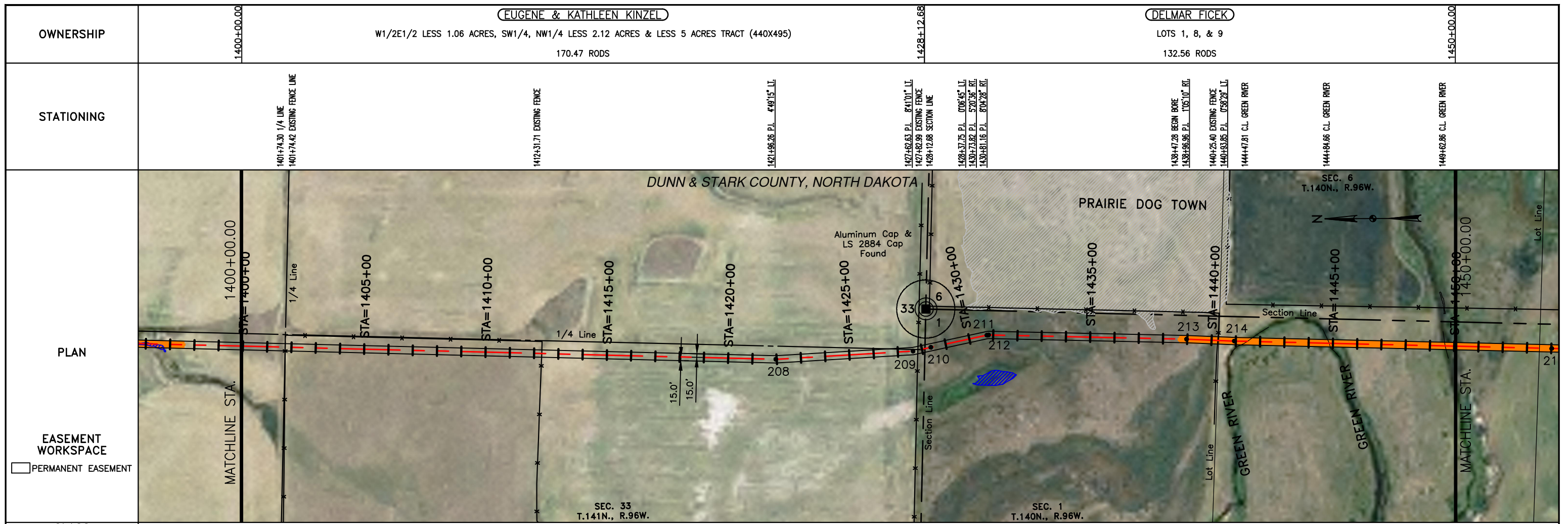
BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 28 & 33, T141N, R96W
DUNN COUNTY, NORTH DAKOTA

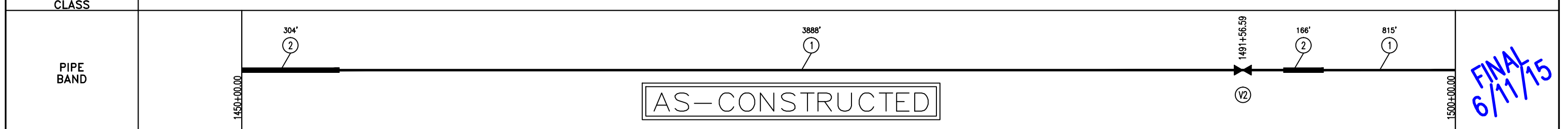
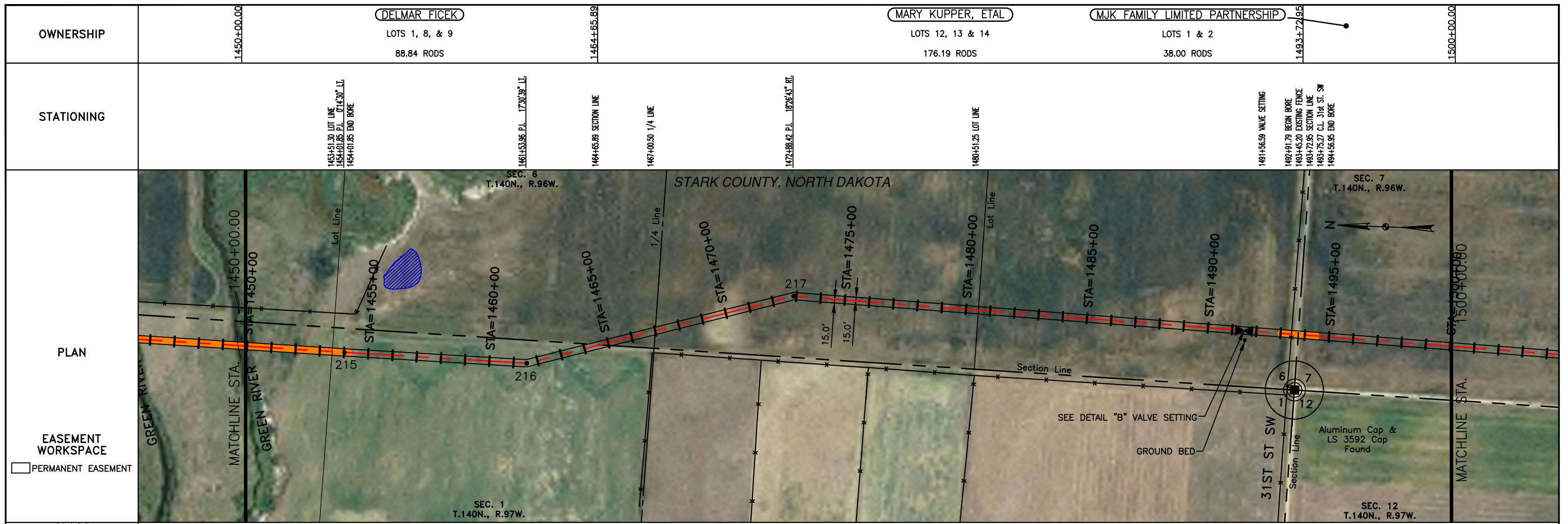
KLJ

4585 Coleman Street
Bismarck, ND 58503

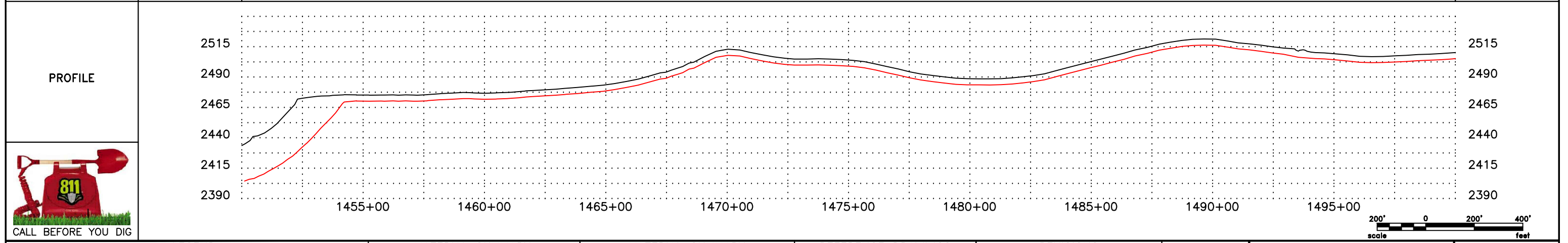
© KLJ 2015



LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	3892 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB				0	6/11/15
---	SECTION LINE	2	1250 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL AD					
---	EASEMENT LINE								
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								



FINAL
6/11/15



LEGEND

—	PROPERTY LINE	—*—	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	▨	WETLAND
- · - · -	EASEMENT LINE	—	RAILROAD	▨	EASEMENT
- · - · -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	▨	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	—	—	—
—	UNDERGROUND COM. LINE	—	—	—	—

MATERIAL SUMMARY			MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION
1	4765 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB			
2	470 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL ADH			

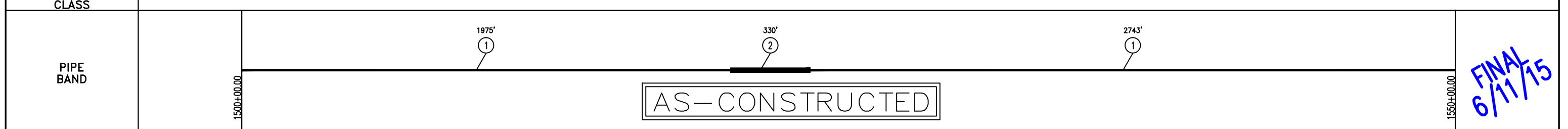
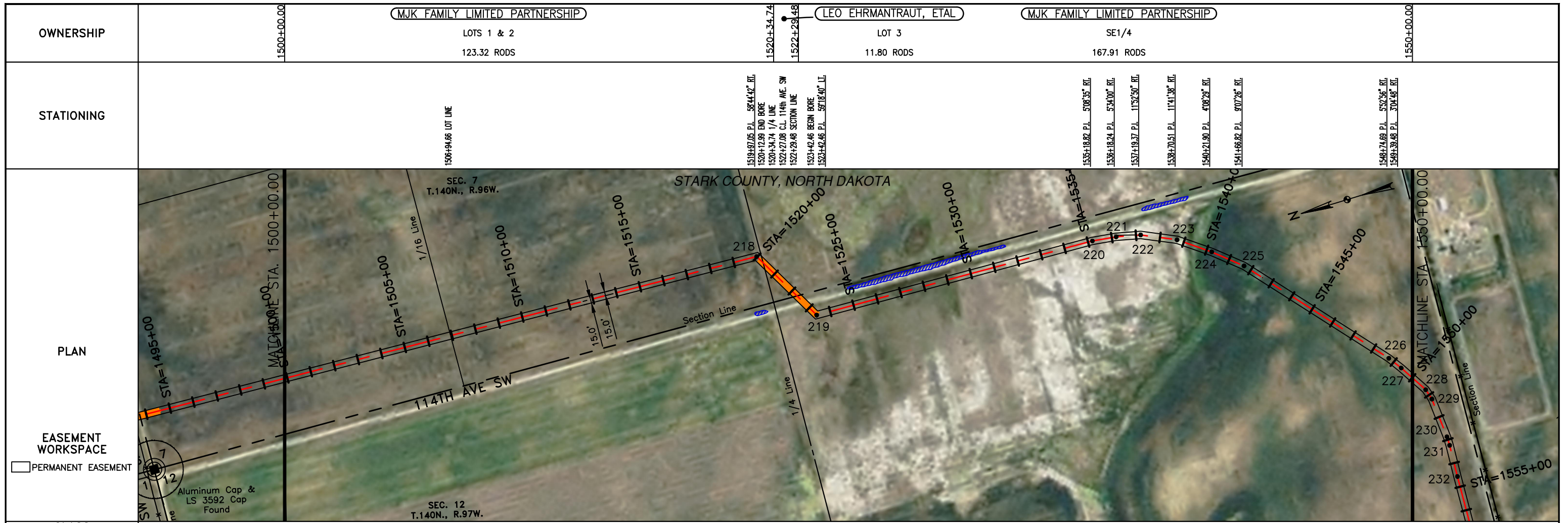
REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO.
V2	16" VALVE SETTING, DETAIL "B"	0

REVISIONS		
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

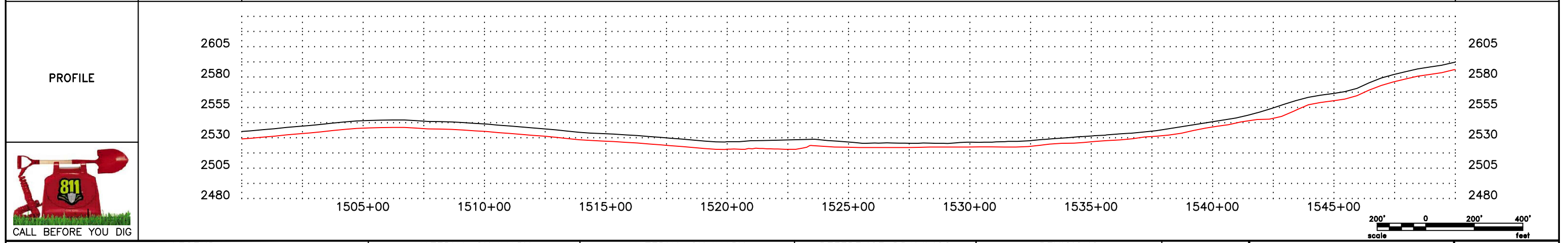
SCALE: 1" = 400'
 DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KJL JOB NUMBER: 1713140
 REVISION: SHEET 36

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.
BOE PIPELINE PHASE 1
 SECTION 1, T140N, R97W & SECTIONS 6 & 7, T140N, R96W
 STARK COUNTY, NORTH DAKOTA

KJL
 4585 Coleman Street
 Bismarck, ND 58503
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FINAL
6/11/15



LEGEND

—	PROPERTY LINE	—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	—	FIBER OPTIC COM. LINE	—	WETLAND
- · - · -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
- · - · -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY			MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION
1	4718 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB			
2	330 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL ADH			

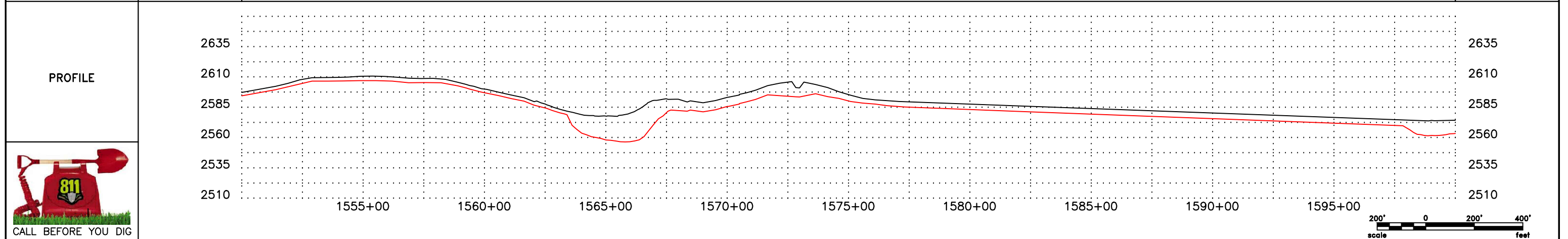
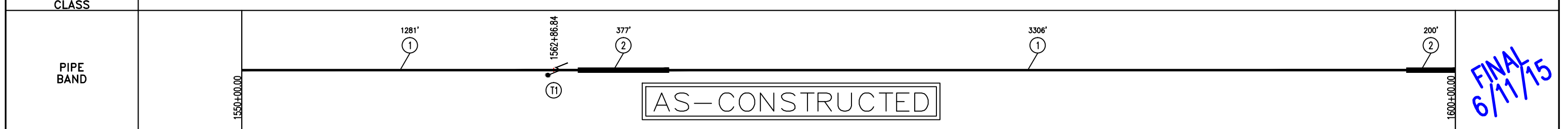
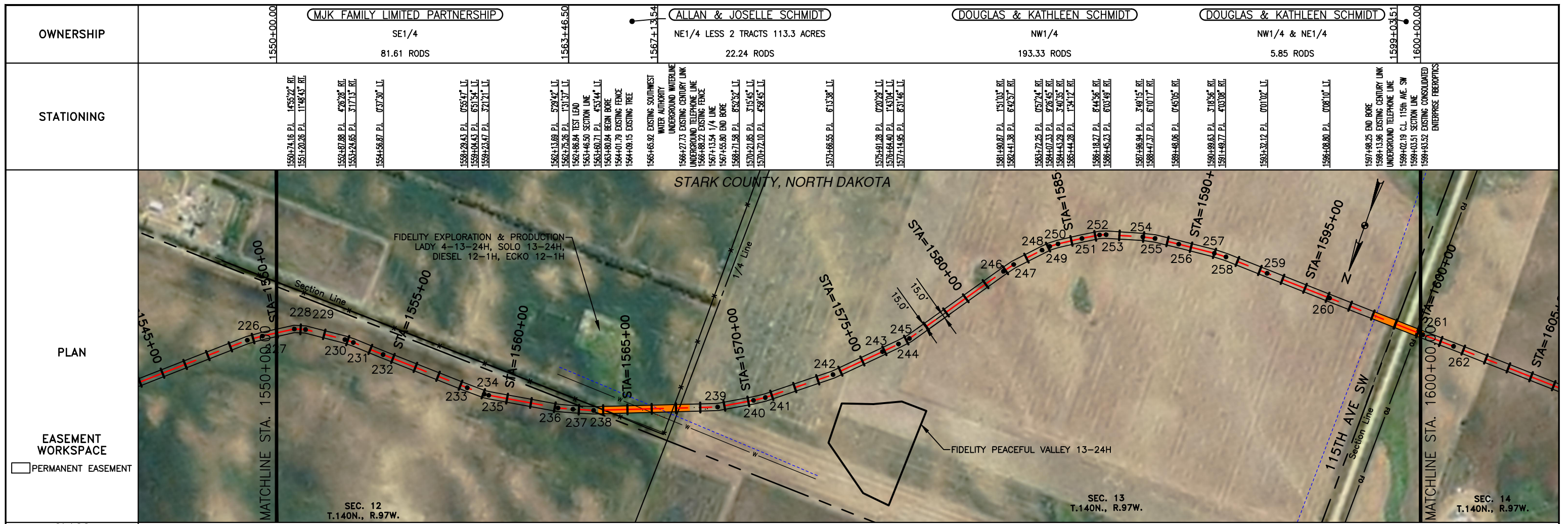
REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION

REVISIONS		
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'
 DRAWN BY: D. BUNKERS
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 37

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
 SECTION 7, T140N, R96W & SECTION 12, T140N, R97W
 STARK COUNTY, NORTH DAKOTA

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 4585 Coleman Street
 Bismarck, ND 58503
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LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	4887 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FIB.				0	6/11/15
---	SECTION LINE	2	577 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FIB., 30-35 MIL. ADH.					
---	EASEMENT LINE	TI	1 EA	TYPE-1					
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

BOE PIPELINE, LLC.

BOE PIPELINE PHASE I

SECTIONS 12, 13 & 14, T140N, R97W

STARK COUNTY, NORTH DAKOTA

DOUGLAS & KATHLEEN SCHMIDT

NW1/4 & NE1/4

303.03 RODS

OWNERSHIP

STATIONING

1600+00.00

1650+00.00

1600+21.43 BEGIN BORE
1600+21.43 P.L. 054°51' LL
1601+56.93 P.L. 052°33' RL

1624+32.12 P.L. 070°12' RL

1625+36.47 1/4 LINE

1627+51.27 P.L. 038°25' LL
1628+09.65 P.L. 241°12' LL

1629+85.56 P.L. 070°33' LL

1631+61.99 P.L. 071°19' RL

1635+46.15 P.L. 071°43' LL

1638+11.95 P.L. 84°11' LL
1639+48.66 P.L. 071°35' LL

1642+49.34 P.L. 77°14' LL
1643+16.30 P.L. 147°06' LL

1645+86.37 P.L. 167°05' LL
1646+86.37 BEGIN BORE

1648+95.24 C.I. DRAINAGE

PLAN

EASEMENT WORKSPACE

PERMANENT EASEMENT

STARK COUNTY, NORTH DAKOTA

SEC. 14
T.140N., R.97W.

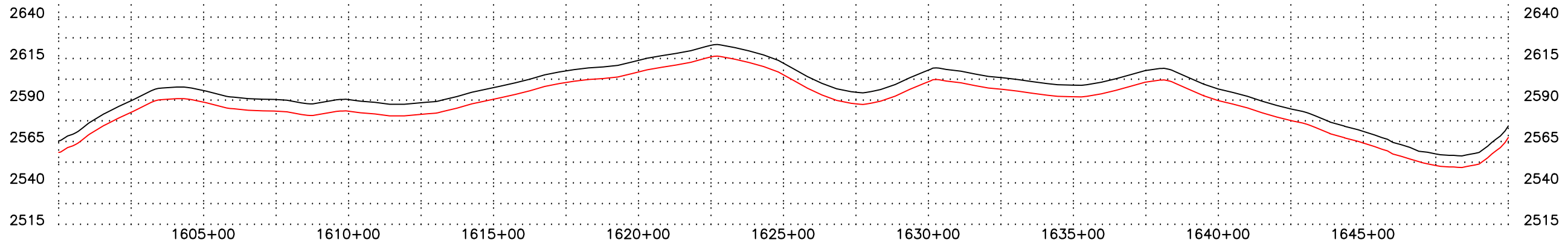
CLASS

PIPE BAND

AS-CONSTRUCTED

FINAL
6/11/15

PROFILE



CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- BARBED WIRE FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- AS-CONSTRUCTED BORE
- MARKER POST
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING

MK.NO.	QTY.	DESCRIPTION
1	4782 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB
2	439 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL ADH

MK.NO.	QTY.	DESCRIPTION

DWG. NO.	DESCRIPTION

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 11/7/14

CHECKED BY: J. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 39

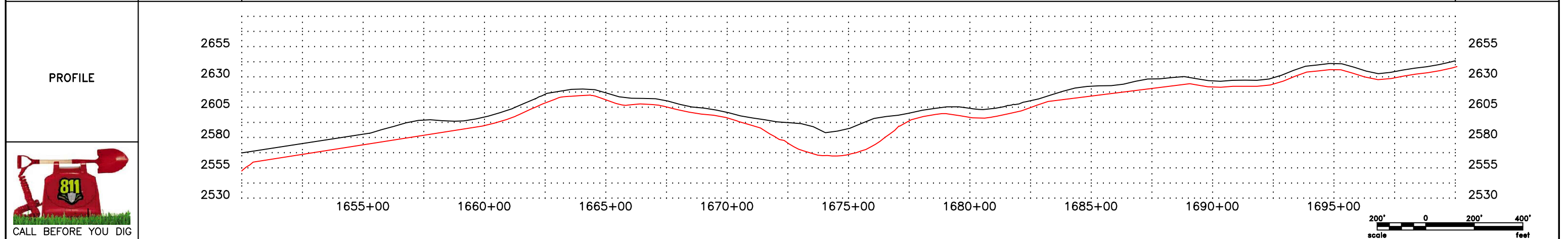
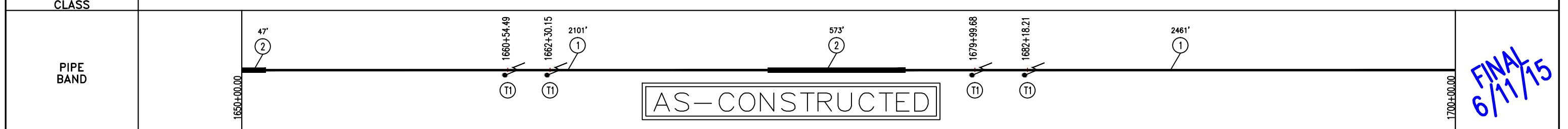
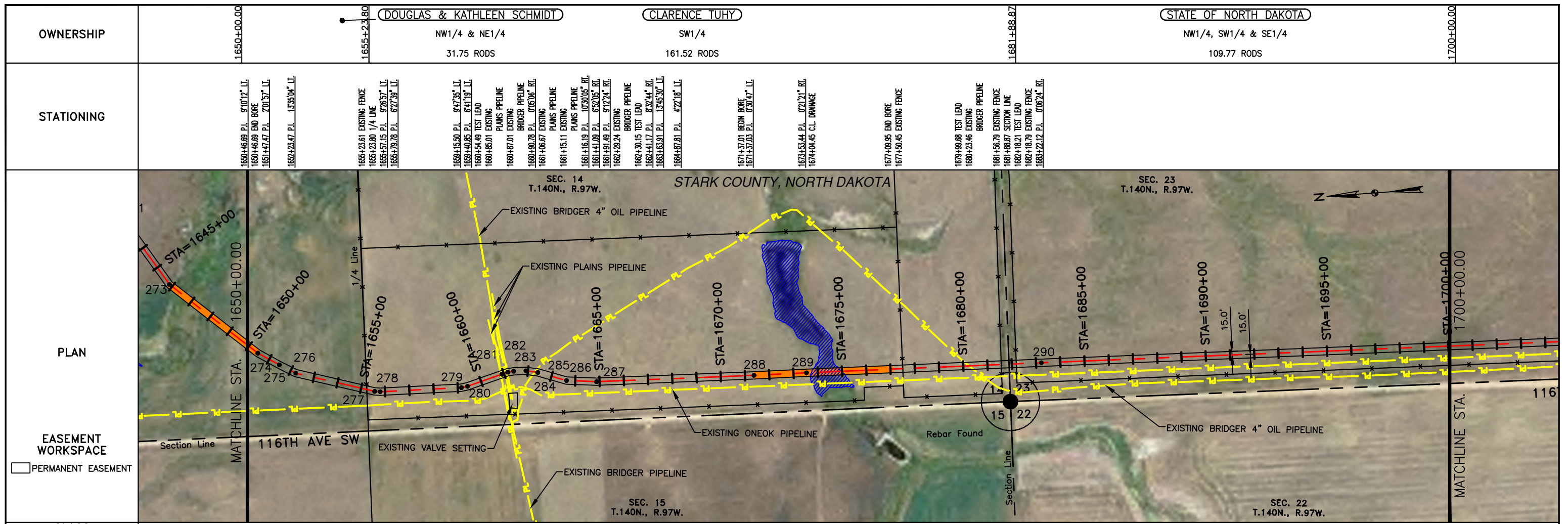
BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTION 14, T140N, R97W
STARK COUNTY, NORTH DAKOTA

KLJ

4585 Coleman Street
Bismarck, ND 58503

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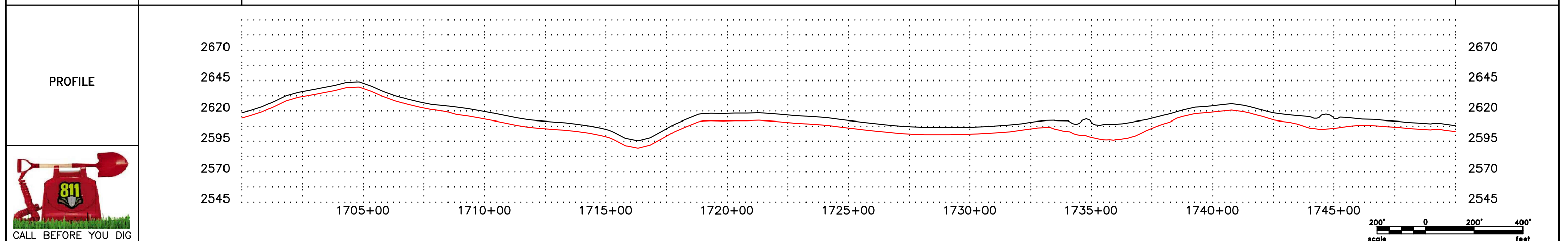
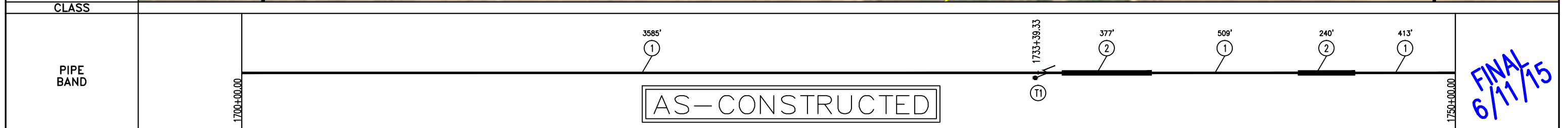
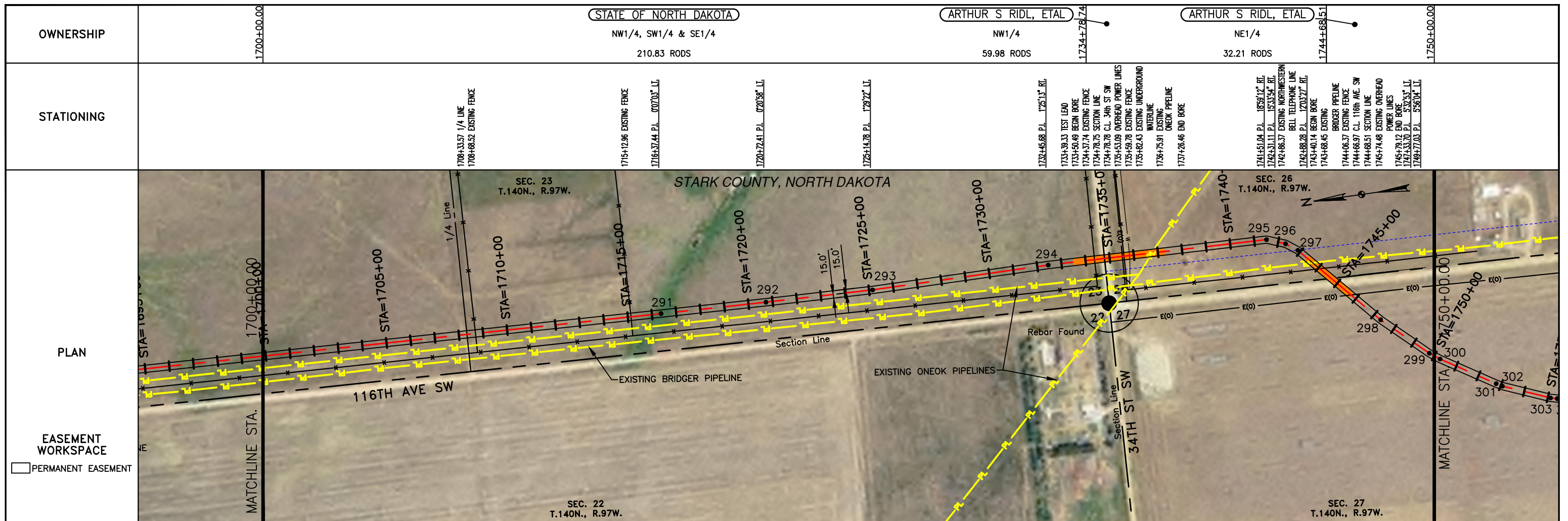


LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	NO.	DATE
---	PROPERTY LINE	1	4582 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FIB.				0	6/11/15
---	SECTION LINE	2	620 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FIB., 30-35 MIL. AD.					
---	EASEMENT LINE	TI	4 EA	TYPE-1					
---	PIPELINE CENTERLINE								
---	WATER LINE								
---	FOREIGN PIPELINE								
---	EXISTING ROAD								
---	UNDERGROUND COM. LINE								
---	BARBED WIRE FENCE								
---	FIBER OPTIC COM. LINE								
---	RAILROAD								
---	OVERHEAD ELECTRIC								
---	UTILITY POLE								
---	AS-CONSTRUCTED BORE								
---	MARKER POST								
---	AVOIDANCE AREA								
---	WETLAND								
---	EASEMENT								
---	TEST LEAD								
---	VALVE SETTING								

BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTIONS 14 & 23, T140N, R97W
STARK COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503



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MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK.NO.	QTY.	DESCRIPTION	MK.NO.	QTY.	DESCRIPTION	NO.	DATE
1	4507 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB				0	6/11/15
2	617 LF	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FIB, 30-35 MIL ADH					
TI	1 EA	TYPE-1					

DWG. NO.	DESCRIPTION

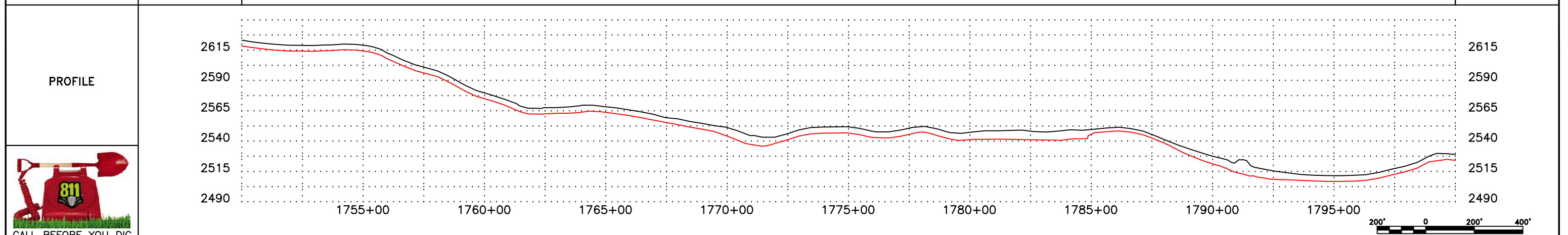
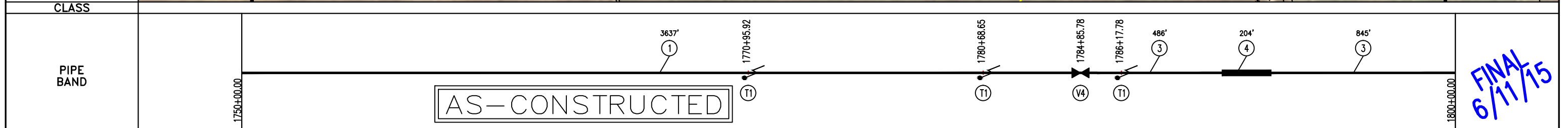
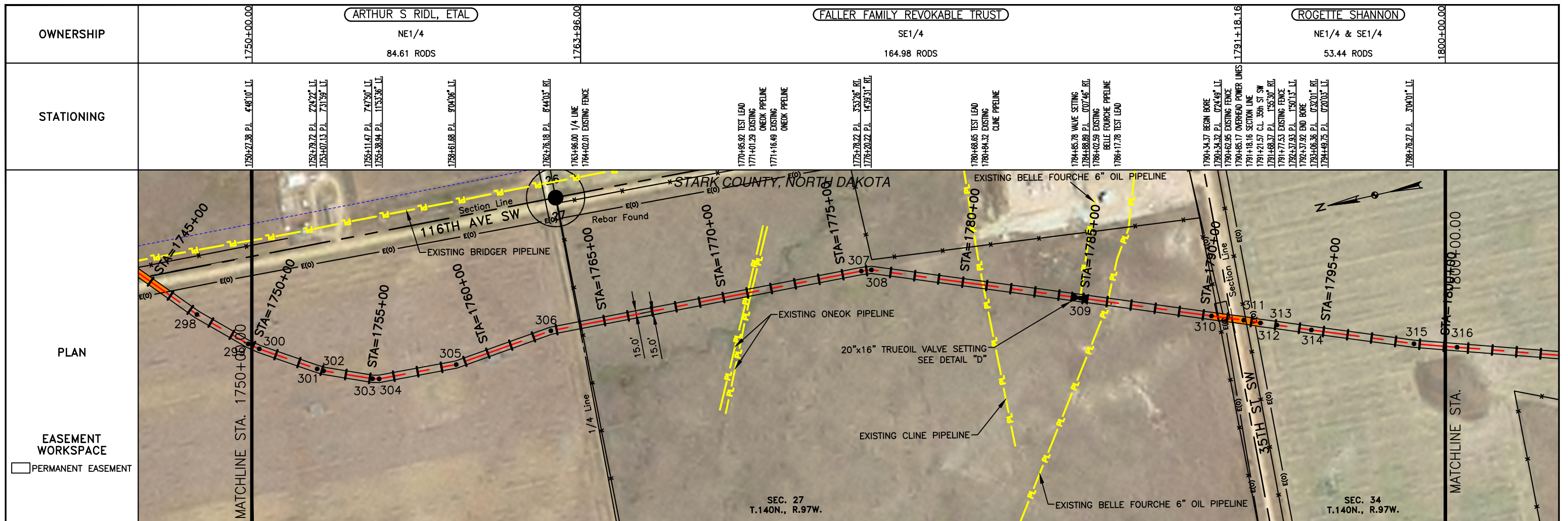
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

LEGEND

—	PROPERTY LINE	—*—	BARBED WIRE FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	▨	EASEMENT
- - -	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—			
—	UNDERGROUND COM. LINE				

BOE PIPELINE, LLC.
 BOE PIPELINE PHASE I
 SECTIONS 23, 26 & 27, T140N, R97W
 STARK COUNTY, NORTH DAKOTA

4585 Coleman Street
 Bismarck, ND 58503
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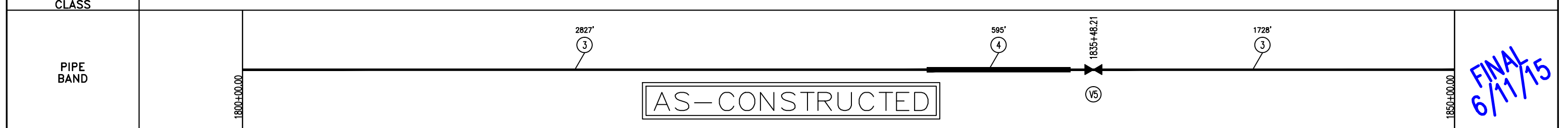
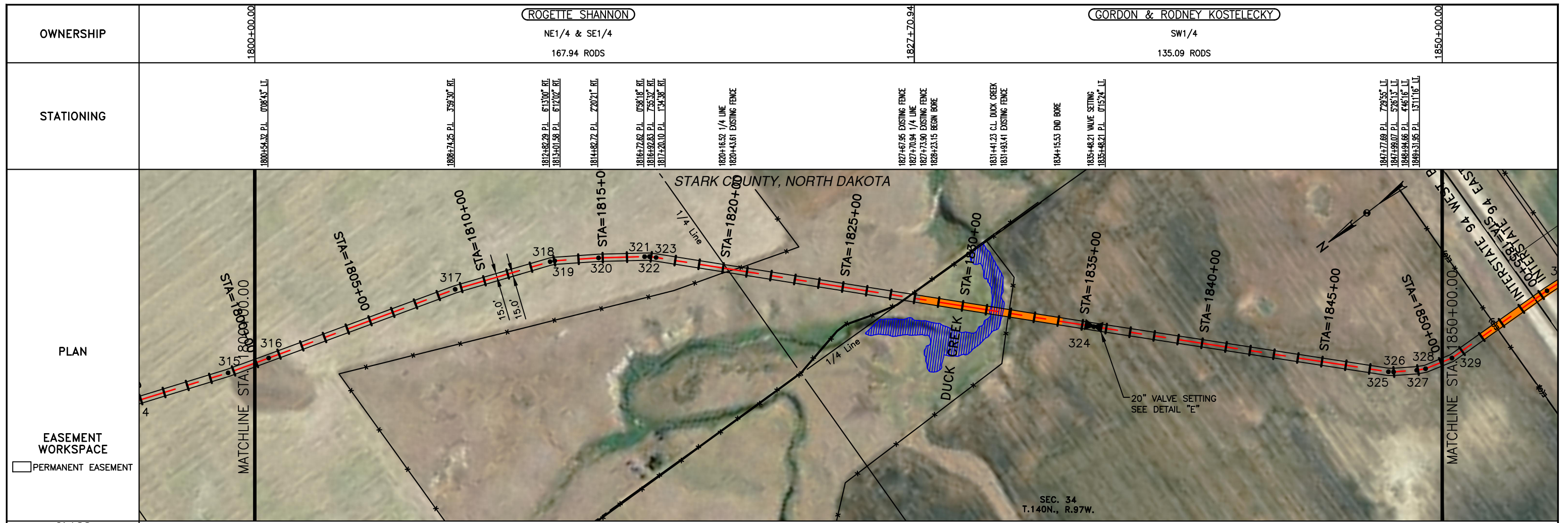


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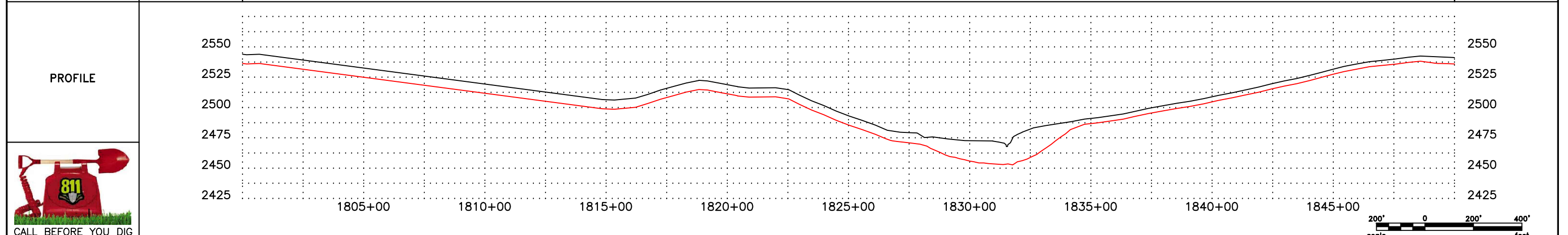
LEGEND		MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	NO.	DATE	
---	PROPERTY LINE	1	3637 LF	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FIB			105	20"x16" TRUE OIL VALVE SETTINGS DETAIL "D"	0	6/11/15
---	SECTION LINE	3	1300 LF	20" OD, 0.375" W.T. API 5L X80, 13-15 MIL FIB						
---	EASEMENT LINE	4	204 LF	20" OD, 0.375" W.T. API 5L X80, 13-15 MIL FIB, 30-35 MIL AHD						
---	PIPELINE CENTERLINE	T1	3 EA	TYPE-1						
---	WATER LINE									
---	FOREIGN PIPELINE									
---	EXISTING ROAD									
---	UNDERGROUND COM. LINE									
---	BARBED WIRE FENCE									
---	FIBER OPTIC COM. LINE									
---	RAILROAD									
---	OVERHEAD ELECTRIC									
---	UTILITY POLE									
---	AS-CONSTRUCTED BORE									
---	MARKER POST									
---	AVOIDANCE AREA									
---	WETLAND EASEMENT									
---	TEST LEAD									
---	VALVE SETTING									

BOE PIPELINE, LLC.
BOE PIPELINE PHASE I
 SECTIONS 27 & 34, T140N, R97W
 STARK COUNTY, NORTH DAKOTA

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LEGEND

—	PROPERTY LINE	—*—	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
3	4555 LF	20" OD, 0.375" WT API 5L X60, 13-15 MIL. FIB.
4	595 LF	20" OD, 0.375" WT API 5L X65, 13-15 MIL. FIB., 30-35 MIL. HD.

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION
V5	107 VALVE SETTING PLAN AND PROFILE NEW DETAIL "E"

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 713140
REVISION: SHEET: 43

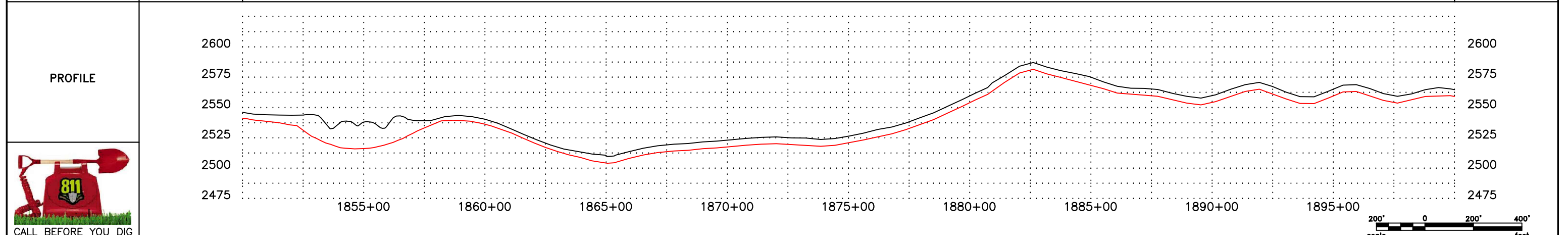
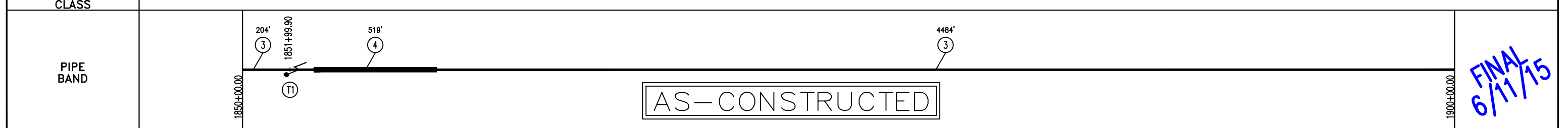
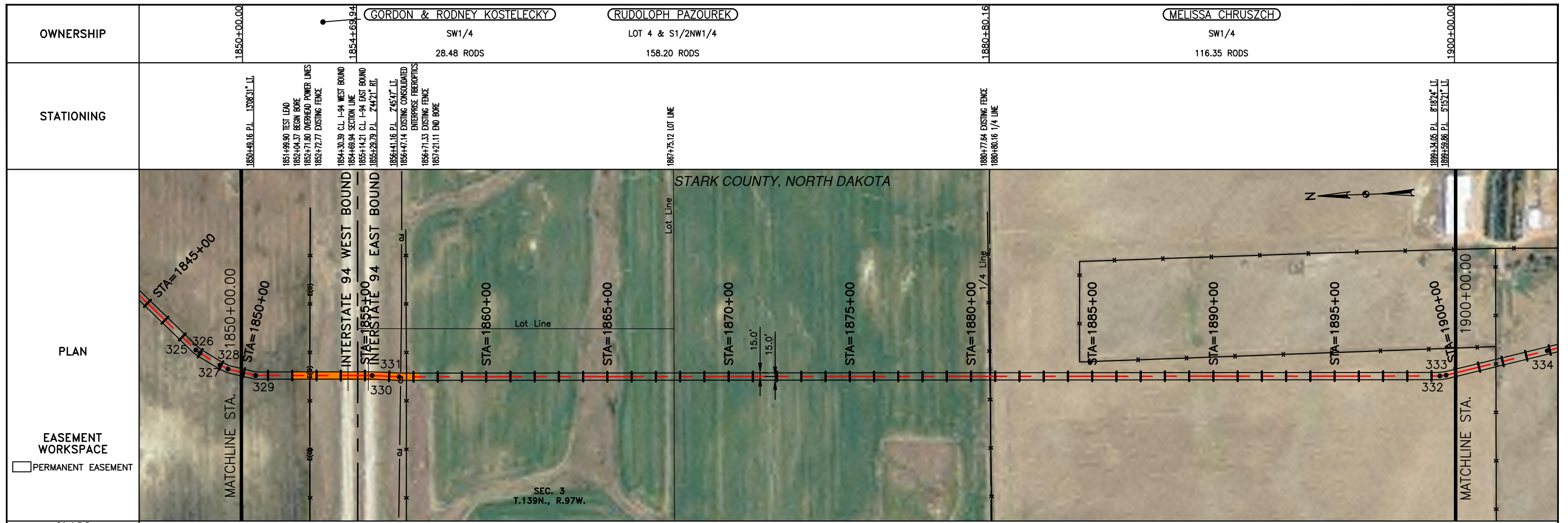
BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTION 34, T140N, R97W
STARK COUNTY, NORTH DAKOTA

KLJ

4585 Coleman Street
Bismarck, ND 58503

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LEGEND

—	PROPERTY LINE	—*—*	BARBED WIRE FENCE	—	AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE	—	WETLAND
- - -	EASEMENT LINE	—	RAILROAD	—	EASEMENT
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	—	TEST LEAD
—	WATER LINE	—	UTILITY POLE	—	VALVE SETTING
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	MARKER POST
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
3	4888 LF	20" OD, 0.375" WT API 5L 200, 13-15 MIL FIB
4	519 LF	20" OD, 0.375" WT API 5L 200, 13-15 MIL FIB, 30-35 MIL HD
11	1 EA	TYPE-1

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 713140
REVISION: SHEET: 44

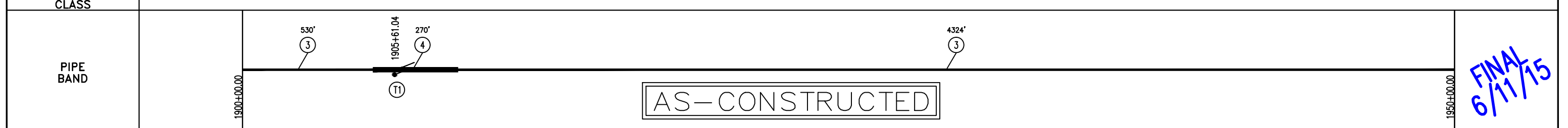
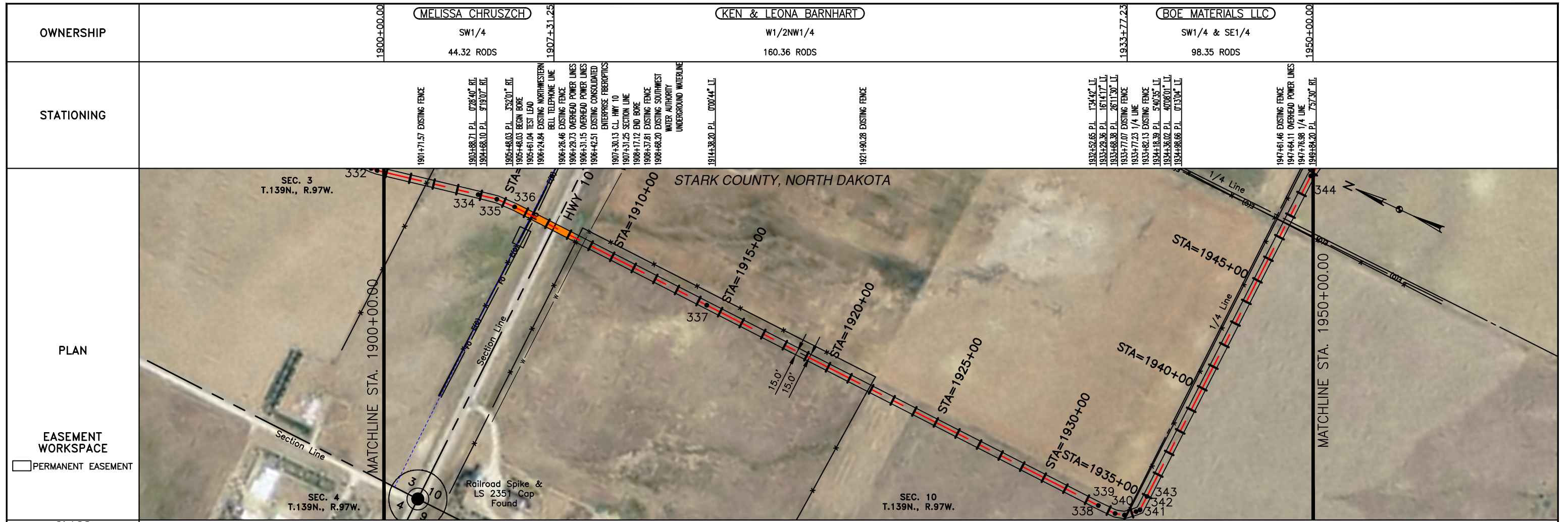
BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTION 34, T140N, R97W & SECTION 3, T139N, R97W
STARK COUNTY, NORTH DAKOTA

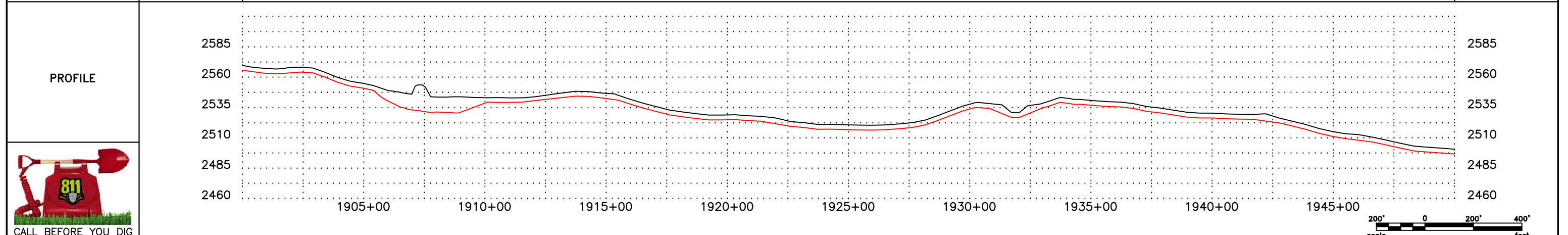
KLJ

4585 Coleman Street
Bismarck, ND 58503

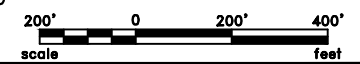
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6/11/15



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MATERIAL SUMMARY			MATERIAL SUMMARY			REFERENCE DRAWINGS		REVISIONS		
MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE	DESCRIPTION
3	4854 LF	20" OD, 0.375" WT API 5L X60, 13-15 MIL FIB						0	6/11/15	AS CONSTRUCTED
4	270 LF	20" OD, 0.375" WT API 5L X60, 13-15 MIL FIB, 30-35 MIL HD								
T1	1 EA	TYPE-1								

LEGEND			
—	PROPERTY LINE	—	BARBED WIRE FENCE
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE
- - -	EASEMENT LINE	- - -	RAILROAD
- - -	PIPELINE CENTERLINE	- - -	OVERHEAD ELECTRIC
- - -	WATER LINE	- - -	UTILITY POLE
- - -	FOREIGN PIPELINE	- - -	AS-CONSTRUCTED BORE
- - -	EXISTING ROAD	- - -	MARKER POST
- - -	UNDERGROUND COM. LINE	- - -	AVOIDANCE AREA
- - -		- - -	WETLAND EASEMENT
- - -		- - -	TEST LEAD
- - -		- - -	VALVE SETTING

SCALE: 1" = 400'

DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 713140
REVISION: SHEET: 45

BOE BAKKEN OIL EXPRESS BOE PIPELINE, LLC.

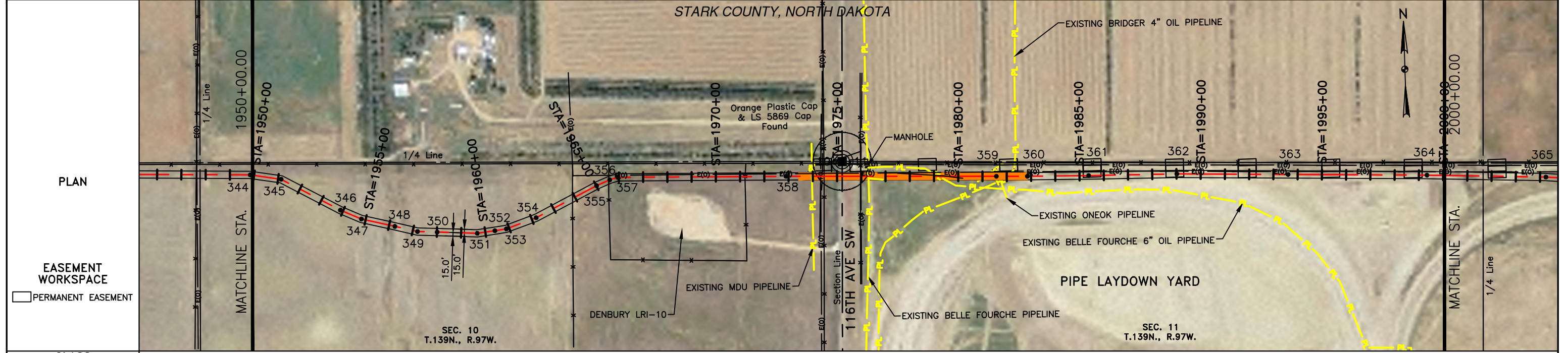
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BOE PIPELINE PHASE I
SECTIONS 3 & 10, T139N, R97W
STARK COUNTY, NORTH DAKOTA

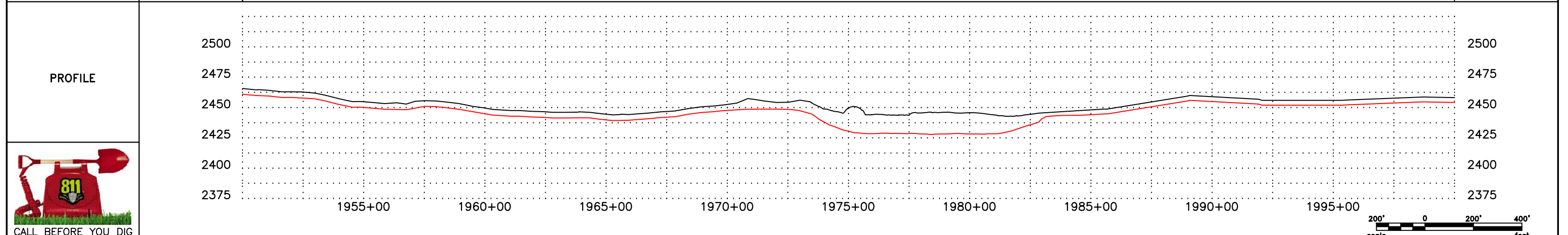
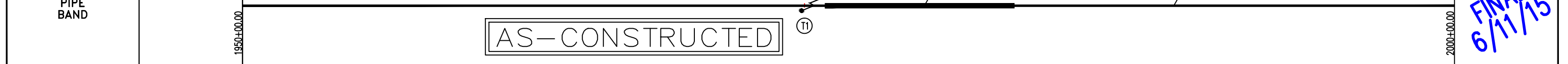
4585 Coleman Street
Bismarck, ND 58503

OWNERSHIP	1950+00.00	(BOE MATERIALS LLC) SW1/4 & SE1/4 152.79 RODS	1975+20.97	(BOE MATERIALS LLC) SW1/4 LESS 16.287 150.24 RODS	2000+00.00
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STATIONING	1951+12.95 P.L. < 1972.37' RT.	1953+88.65 P.L. < 4.3611" LI.	1954+82.79 P.L. < 10.34' LI.	1956+23.98 P.L. < 0.7216' RT.	1957+19.78 P.L. < 11.1557' LI.	1958+00.99 P.L. < 0.1557' RT.	1959+66.26 P.L. < 10.7506' LI.	1960+39.88 P.L. < 0.7631' LI.	1960+87.72 P.L. < 17.7719' LI.	1962+19.11 P.L. < 7.3221' LI.	1963+88.21 EXISTING FENCE	1965+01.26 P.L. < 4.7639' RT.	1965+55.63 EXISTING FENCE	1965+60.51 P.L. < 5.5308' RT.	1965+95.37 P.L. < 17.7207' RT.	1971+20.24 EXISTING FENCE	1972+88.40 P.L. < 0.1842' RT.	1973+18.70 TEST LEAD	1973+32.72 OVERHEAD POWER LINES	1973+46.10 BEGIN BORE	1973+96.29 EXISTING MDU PIPELINE	1974+32.16 EXISTING CONSOLIDATED ENTERPRISE FIBEROPTICS	1974+40.10 OVERHEAD POWER LINES	1974+46.57 EXISTING FENCE	1975+20.97 SECTION LINE	1975+21.12 CL OF 116TH AVE SW	1975+96.30 EXISTING FENCE	1975+97.95 OVERHEAD POWER LINES	1976+28.57 EXISTING BELLE FOURCHE PIPELINE	1979+20.34 EXISTING BELLE FOURCHE PIPELINE	1979+52.62 EXISTING CULVERT	1981+10.18 EXISTING ONEOK PIPELINE	1981+57.09 P.L. < 0.0251" LI.	1981+67.97 EXISTING ONEOK PIPELINE	1982+05.47 EXISTING BRIDGER PIPELINE	1982+85.24 P.L. < 0.3317" LI.	END BORE	1985+37.74 P.L. < 0.7213" LI.	1989+01.51 P.L. < 1.2154' RT.	1993+60.37 P.L. < 0.0107' LI.	1999+33.43 P.L. < 0.3803' RT.
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CLASS	PERMANENT EASEMENT
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LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- - -	EASEMENT LINE
—	PIPELINE CENTERLINE
—	WATER LINE
—	FOREIGN PIPELINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
—	BARBED WIRE FENCE
—	FIBER OPTIC COM. LINE
—	RAILROAD
—	OVERHEAD ELECTRIC
—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	AVOIDANCE AREA
—	WETLAND
—	EASEMENT
—	TEST LEAD
—	VALVE SETTING

MK. NO.	QTY.	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION
3	4112 LF	20" OD, 0.375" WT API 5L X60, 13-15 MIL FIB			
4	941 LF	20" OD, 0.375" WT API 5L X60, 13-15 MIL FIB, 30-35 MIL HD			
11	1 EA	TYPE-1			

REF. DWG. NO.	DESCRIPTION

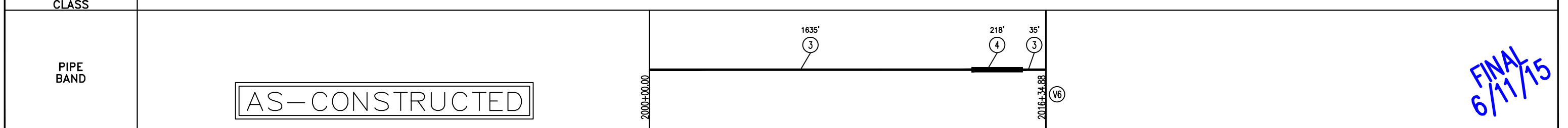
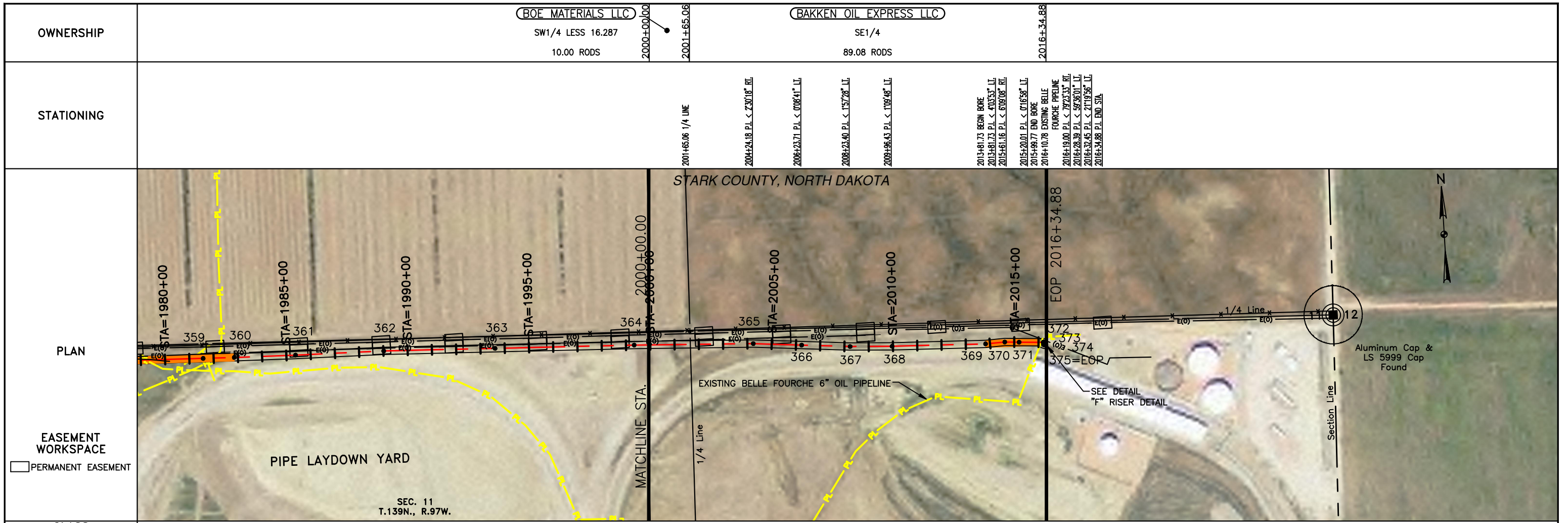
NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

SCALE: 1" = 400'
DRAWN BY: D. BUNKERS
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 713140
REVISION: SHEET: 46

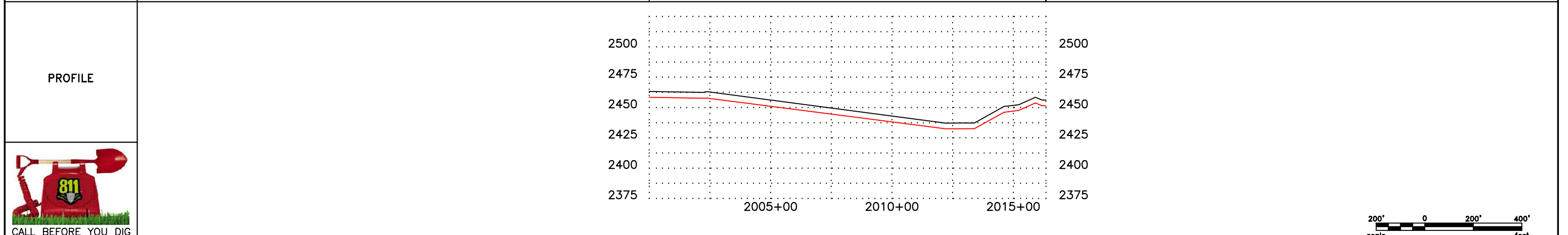
BOE PIPELINE, LLC.

4585 Coleman Street
Bismarck, ND 58503

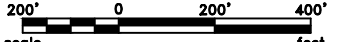
BOE PIPELINE PHASE I
SECTIONS 10 & 11, T139N, R97W
STARK COUNTY, NORTH DAKOTA



FINAL
6/11/15



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MATERIAL SUMMARY		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK.NO.	QTY.	MK.NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
3	1670 LF			V6	110 20" RISER, DETAIL "F"	0	6/11/15
4	218 LF						

NO.	DATE	DESCRIPTION
0	6/11/15	AS CONSTRUCTED

LEGEND		
—	PROPERTY LINE	—
- - -	SECTION LINE	—
- - -	EASEMENT LINE	—
- - -	PIPELINE CENTERLINE	—
- - -	WATER LINE	—
- - -	FOREIGN PIPELINE	—
- - -	EXISTING ROAD	—
- - -	UNDERGROUND COM. LINE	—
—	BARBED WIRE FENCE	—
—	FIBER OPTIC COM. LINE	—
—	RAILROAD	—
—	OVERHEAD ELECTRIC	—
—	UTILITY POLE	—
—	AS-CONSTRUCTED BORE	—
—	MARKER POST	—
—	AVOIDANCE AREA	—
—	WETLAND EASEMENT	—
—	TEST LEAD	—
—	VALVE SETTING	—

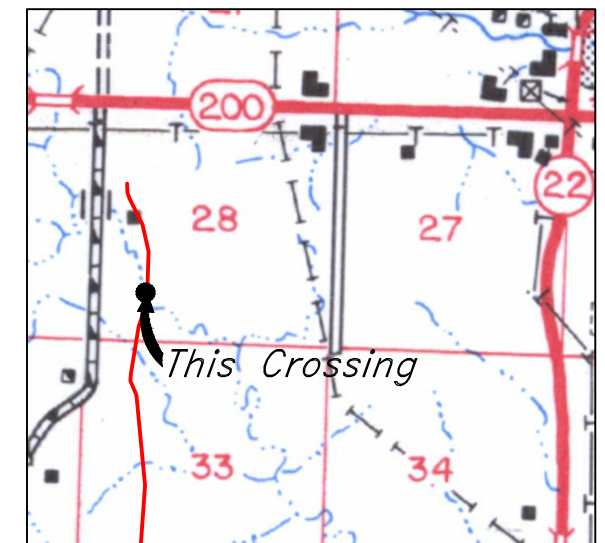
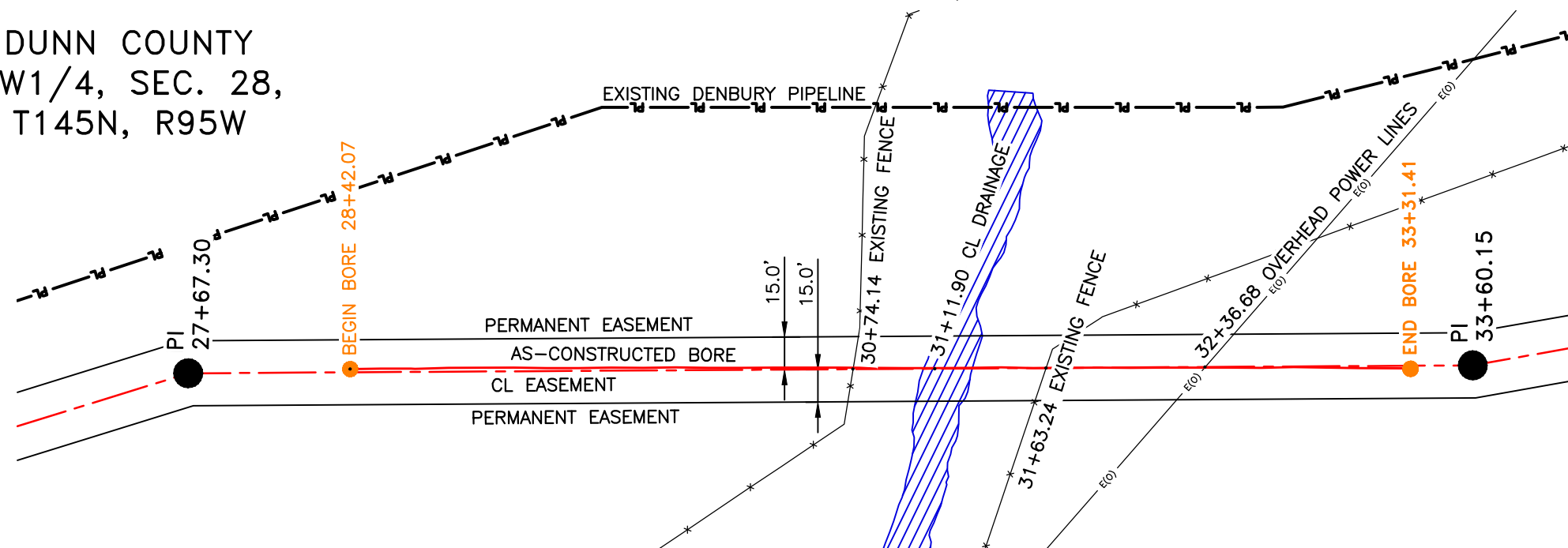
BOE PIPELINE, LLC.

BOE PIPELINE PHASE I
SECTION 11, T139N, R97W
STARK COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #1 DUNN COUNTY, NORTH DAKOTA

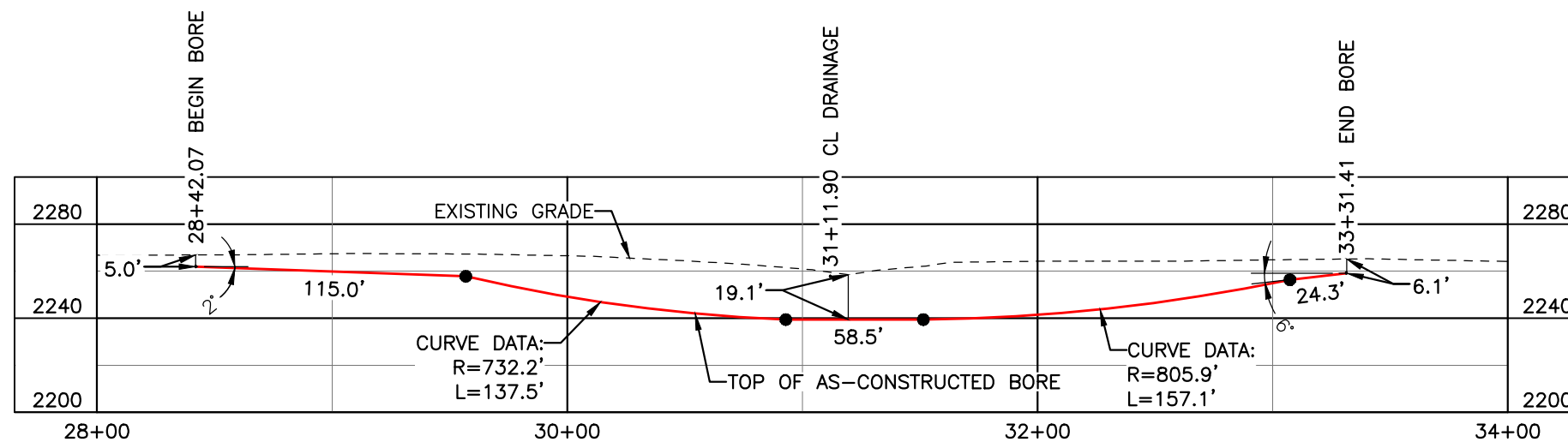
DUNN COUNTY
SW1/4, SEC. 28,
T145N, R95W



R.95W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

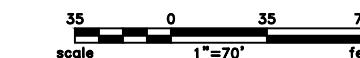
AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	28+42.07	47°20'52.87" N	102°47'46.13" W
END BORE	33+31.41	47°20'48.26" N	102°47'48.25" W

TOTAL HORIZONTAL DISTANCE = 489.34 FT.
TOTAL BORE LENGTH = 492.4 FT.



LEGEND

————— AS-CONSTRUCTED BORE

LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- · - · -	EASEMENT LINE
—●—	PIPELINE CENTERLINE
—W—	WATER LINE
—F—	FOREIGN PIPELINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
—*—	EXISTING FENCE
—FO—	FIBER OPTIC COM. LINE
—	RAILROAD
—E(0)—	OVERHEAD ELECTRIC
—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	VALVE SETTING
—	AVOIDANCE AREA
—	WETLAND
—	EASEMENT
—	TEST LEAD

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
2	492'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO. DATE
		0 6/11/15

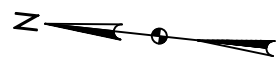
REVISIONS	
NO.	DATE DESCRIPTION
0	6/11/15 AS-CONSTRUCTED

BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE
BORE #1**

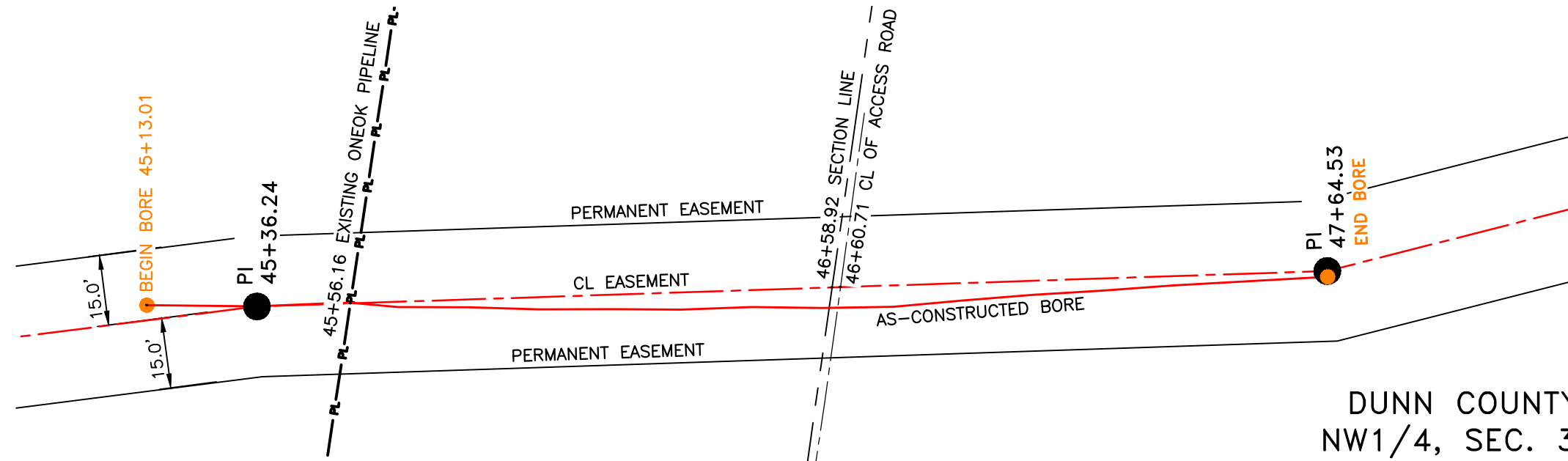
SECTION 28, T.145N., R.95W., DUNN COUNTY, ND

4585 Coleman Street
Bismarck, ND 58503
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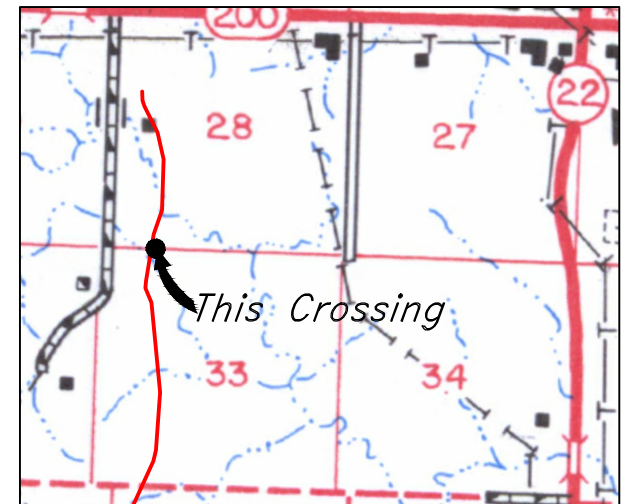


DUNN COUNTY
SW1/4, SEC. 28,
T145N, R95W

BOE PIPELINE PHASE I
ACCESS ROAD CROSSING BORE #2
DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
NW1/4, SEC. 33,
T145N, R95W

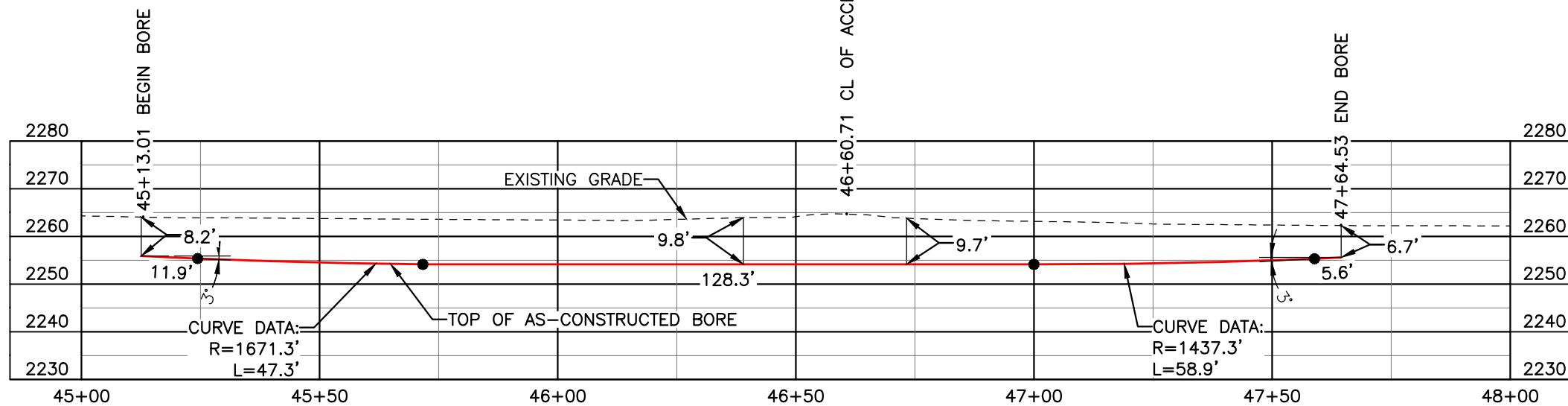


R.95W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

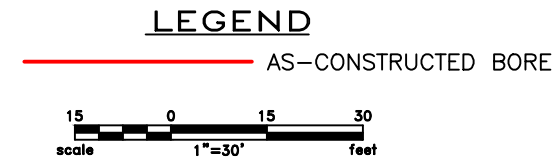
AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	45+13.01	47°20'36.73" N	102°47'49.89" W
END BORE	47+64.53	47°20'34.28" N	102°47'49.31" W

TOTAL HORIZONTAL DISTANCE = 251.52 FT.
TOTAL BORE LENGTH = 252.0 FT.



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	— WETLAND
- - - EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	252'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: S. IRWIN
APPROVED BY: D. DIONNE
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 49

BOE BAKKEN OIL EXPRESS

BOE PIPELINE, LLC

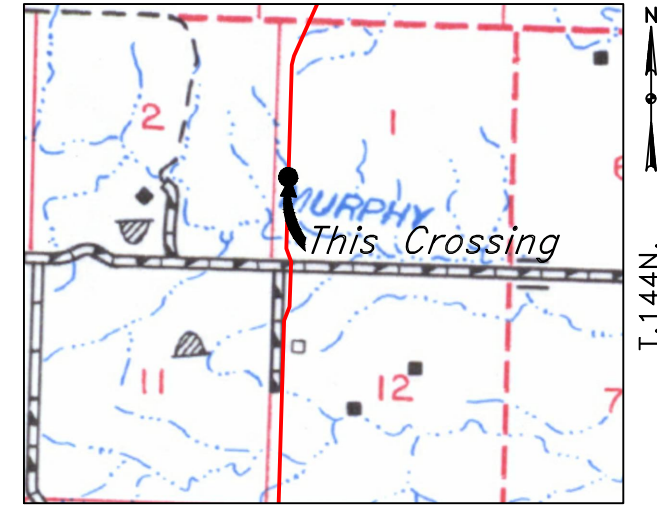
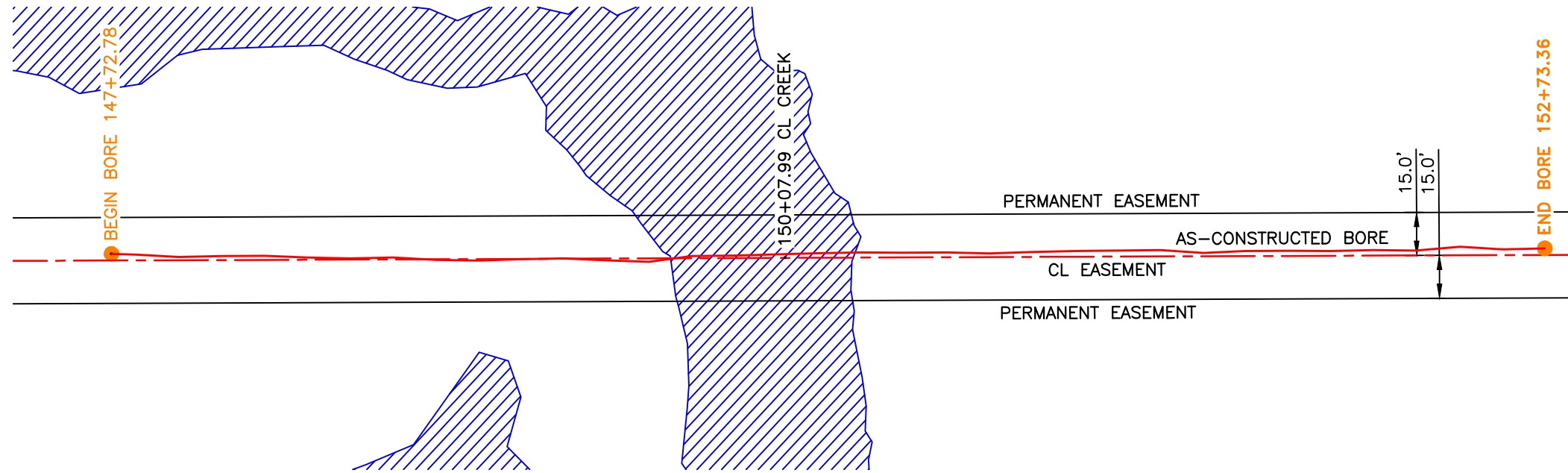
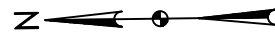
BOE PIPELINE PHASE I
ACCESS ROAD CROSSING BORE #2
SECTIONS 28 & 33, T.145N., R.95W., DUNN COUNTY, ND

KLJ

4585 Coleman Street
Bismarck, ND 58503
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DUNN COUNTY
SW1/4, SEC. 1,
T144N, R96W

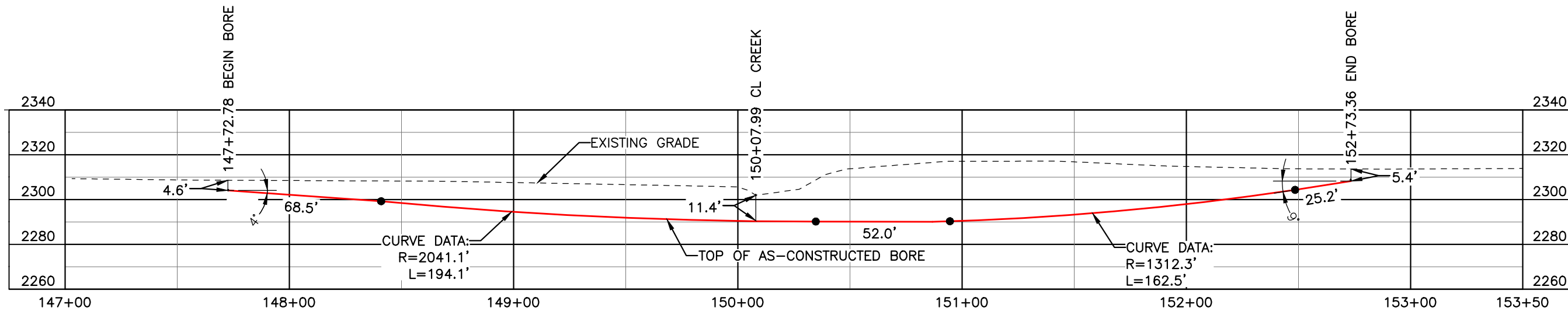
BOE PIPELINE PHASE I
MURPHY CREEK CROSSING BORE #3
DUNN COUNTY, NORTH DAKOTA



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

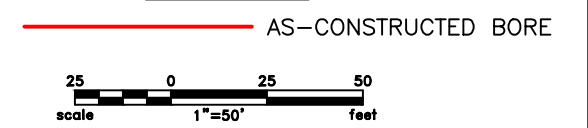


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	147+72.78	47°18'57.21" N	102°47'53.34" W
END BORE	152+73.36	47°18'52.27" N	102°47'53.35" W

TOTAL HORIZONTAL DISTANCE = 500.58 FT.

TOTAL BORE LENGTH = 502.3 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	— WETLAND
- - - EASEMENT LINE	— RAILROAD	— EASEMENT
- - - PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	502'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 50'

DRAWN BY: K. FROST
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 50

BOE BOE PIPELINE, LLC

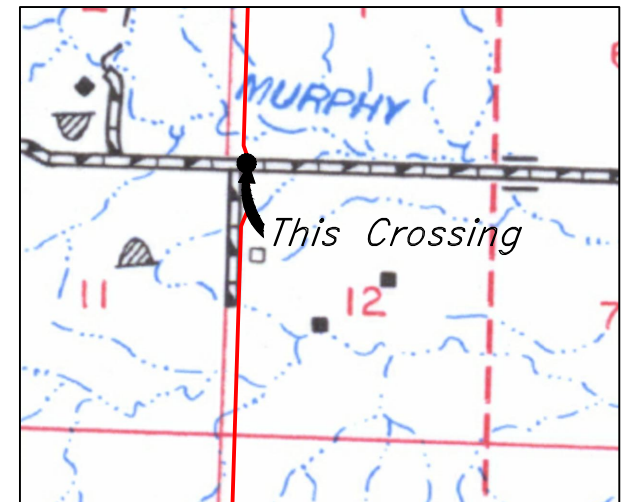
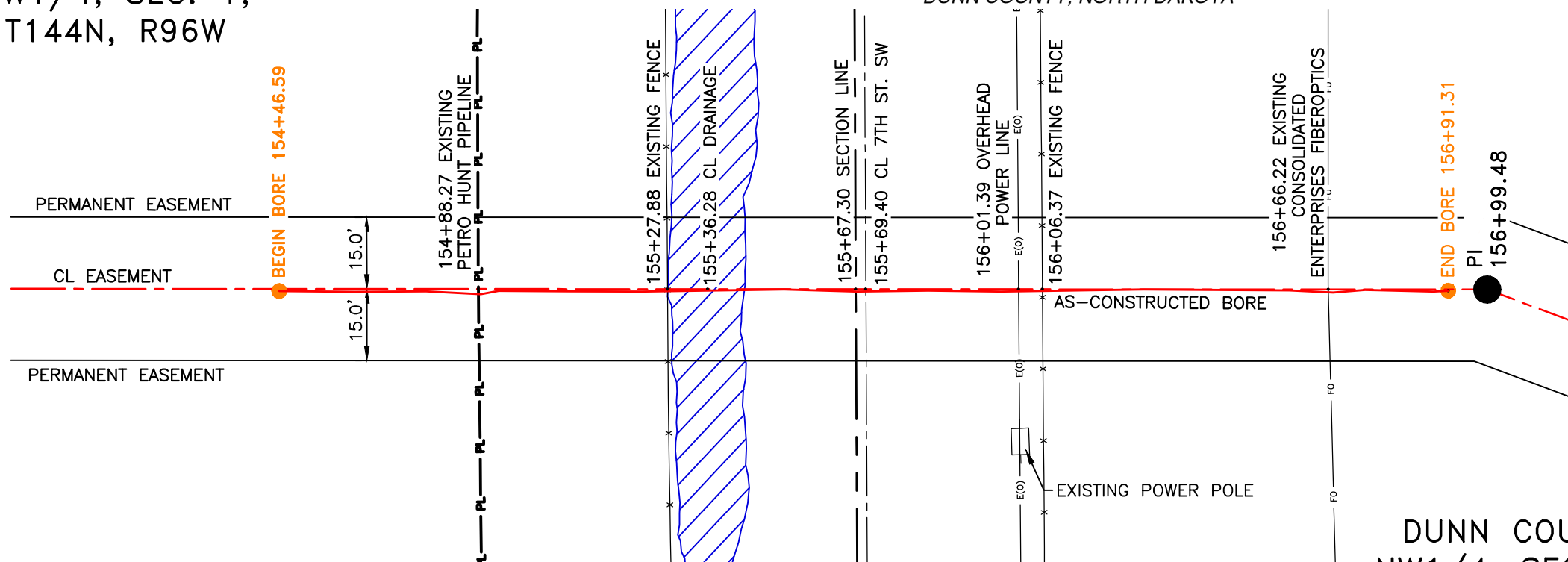
BOE PIPELINE PHASE I
MURPHY CREEK CROSSING BORE #3
SECTION 1, T.144N., R.96W., DUNN COUNTY, ND

KLJ

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Bismarck, ND 58503
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DUNN COUNTY
SW1/4, SEC. 1,
T144N, R96W

BOE PIPELINE PHASE I
7TH ST. SW CROSSING BORE #4
DUNN COUNTY, NORTH DAKOTA

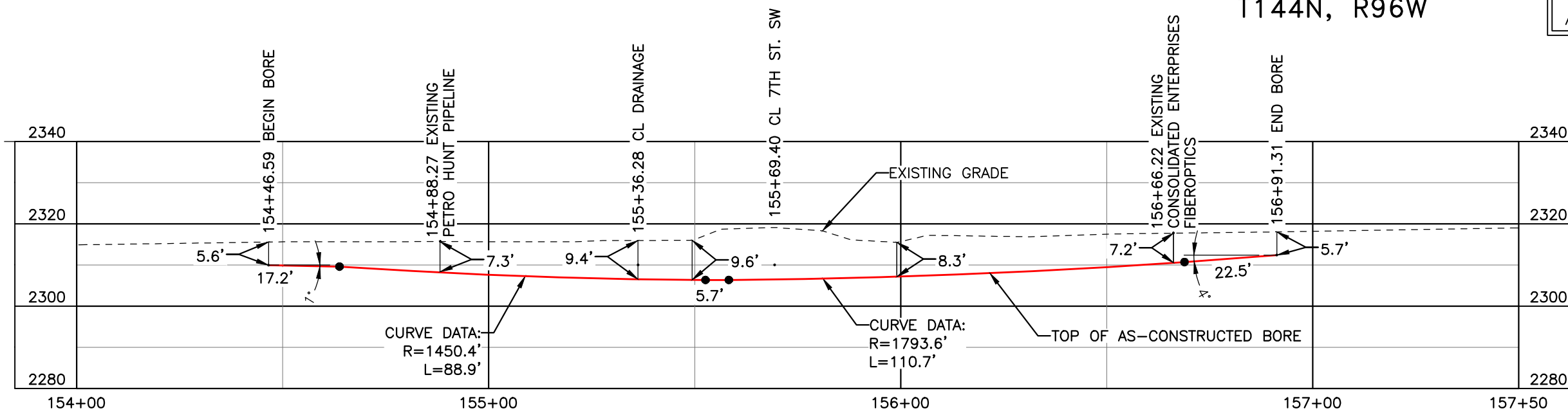


R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

DUNN COUNTY
NW1/4, SEC. 12,
T144N, R96W

AS-CONSTRUCTED

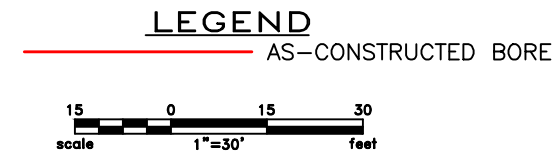


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	156+91.31	47°18'50.56" N	102°47'53.40" W
END BORE	154+46.59	47°18'48.14" N	102°47'53.40" W

TOTAL HORIZONTAL DISTANCE = 244.72 FT.

TOTAL BORE LENGTH = 245.0 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	-FO- FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RAILROAD	▨ EASEMENT
- - - PIPELINE CENTERLINE	-E(O)- OVERHEAD ELECTRIC	● TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	245'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 51

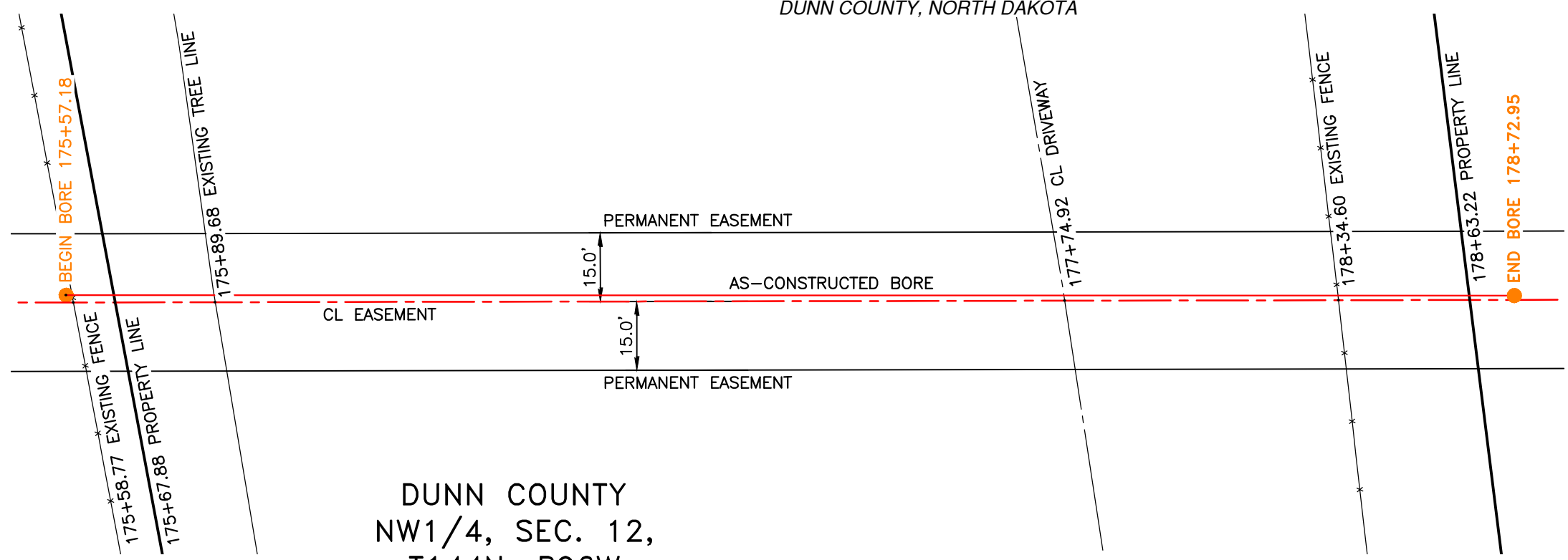
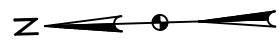
BOE BOE PIPELINE, LLC

BOE PIPELINE PHASE I
7TH ST. SW CROSSING BORE #4
SECTIONS 1 & 12, T.144N., R.96W., DUNN COUNTY, ND

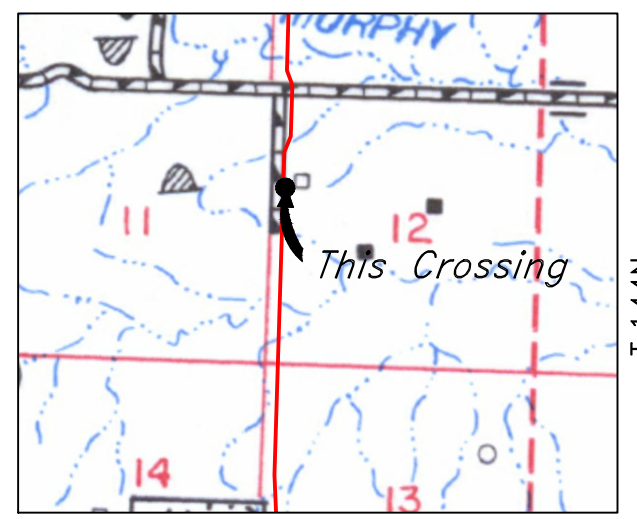
KLJ

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BOE PIPELINE PHASE I H & P HOLDINGS CROSSING BORE #5 DUNN COUNTY, NORTH DAKOTA



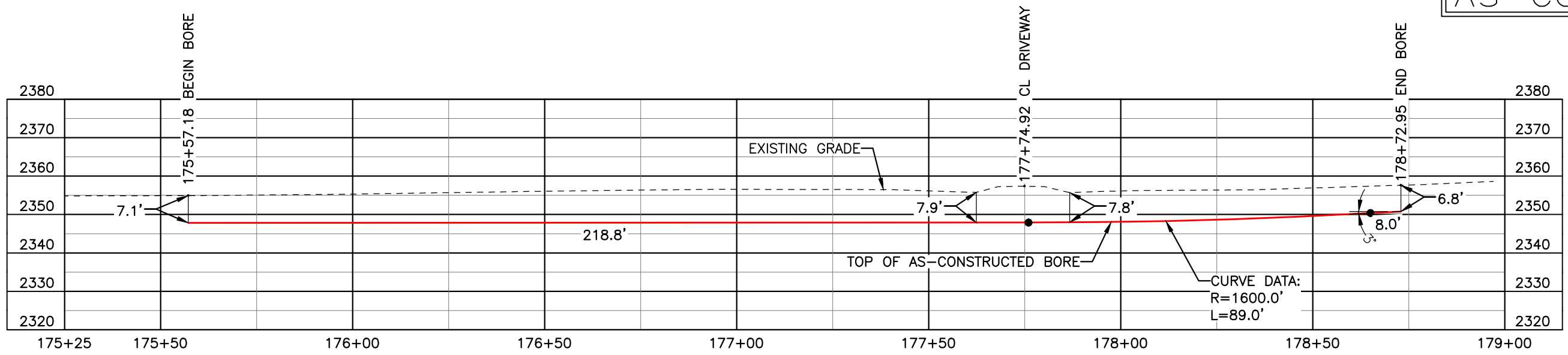
DUNN COUNTY
NW1/4, SEC. 12,
T144N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	175+57.18	47°18'29.93" N	102°47'55.09" W
END BORE	178+72.95	47°18'26.82" N	102°47'55.12" W

TOTAL HORIZONTAL DISTANCE = 315.77 FT.

TOTAL BORE LENGTH = 315.8 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
— SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND EASEMENT
— EASEMENT LINE	— RAILROAD	— TEST LEAD
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	316'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND

DATE: 6/11/15

CHECKED BY: D. DIONNE

APPROVED BY: S. BESMER

KLJ JOB NUMBER: 1713140

REVISION: SHEET: 52

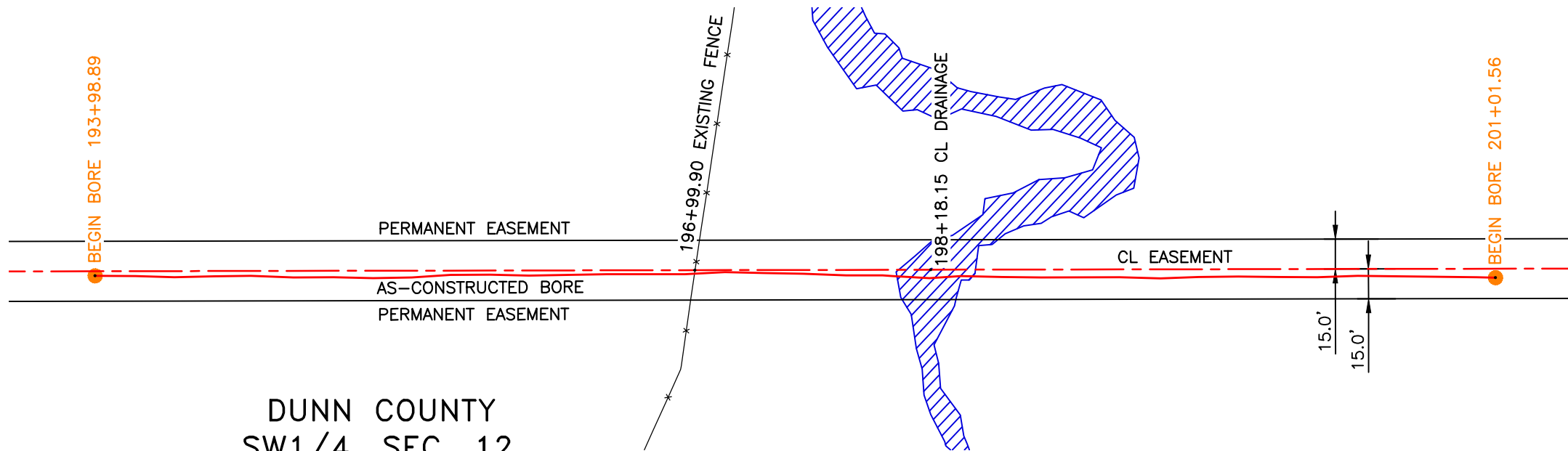
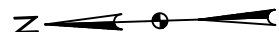
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
H & P HOLDINGS CROSSING BORE #5
SECTION 12, T.144N., R.96W., DUNN COUNTY, ND

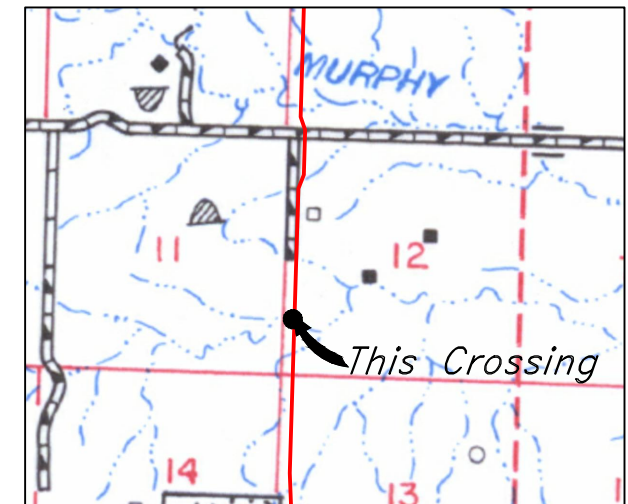
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Bismarck, ND 58503
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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #6

DUNN COUNTY, NORTH DAKOTA



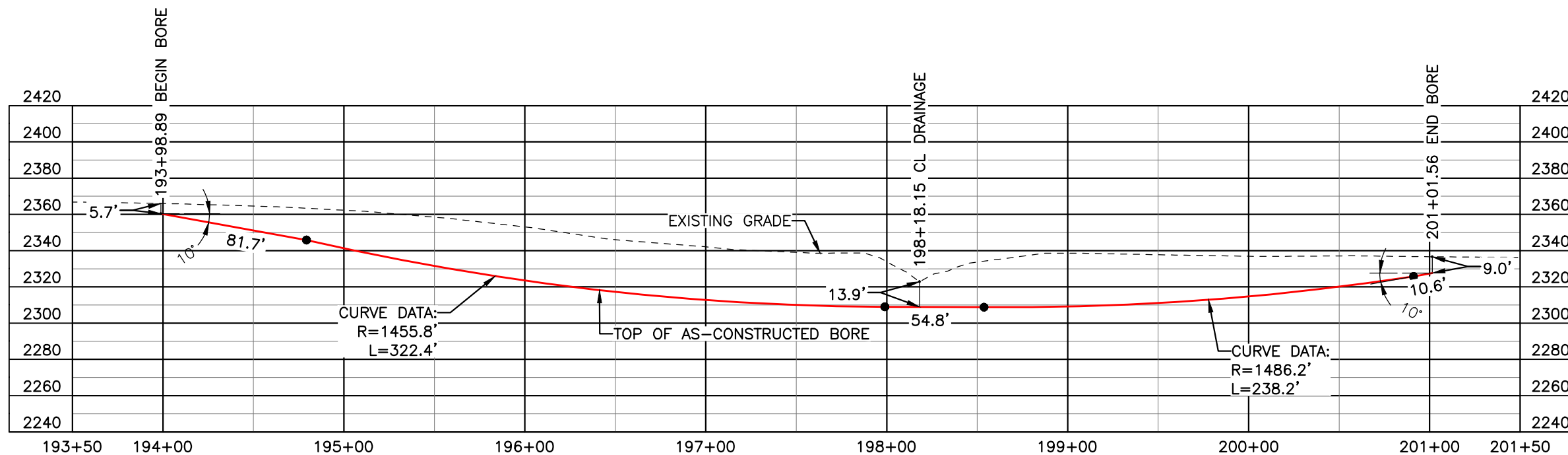
DUNN COUNTY
SW1/4, SEC. 12,
T144N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED



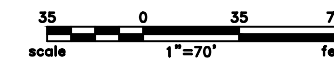
FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	193+98.89	47°18'11.76" N	102°47'55.15" W
END BORE	201+01.56	47°18'04.82" N	102°47'55.18" W

TOTAL HORIZONTAL DISTANCE = 702.67 FT.
 TOTAL BORE LENGTH = 707.7 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND	
— PROPERTY LINE	—*— EXISTING FENCE
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE
- - - EASEMENT LINE	— RAILROAD
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC
— WATER LINE	— □ — UTILITY POLE
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE
— EXISTING ROAD	— □ — MARKER POST
— UNDERGROUND COM. LINE	— □ — VALVE SETTING
— AVOIDANCE AREA	— WETLAND
— EASEMENT	— TEST LEAD

MATERIAL SUMMARY	
MK. NO.	QTY.
2	708'
DESCRIPTION	
16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION

REVISIONS	
NO.	DATE
0	6/11/15
DESCRIPTION	
AS-CONSTRUCTED	

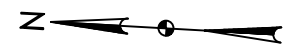
SCALE: 1" = 70'
 DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 53

BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE #6**

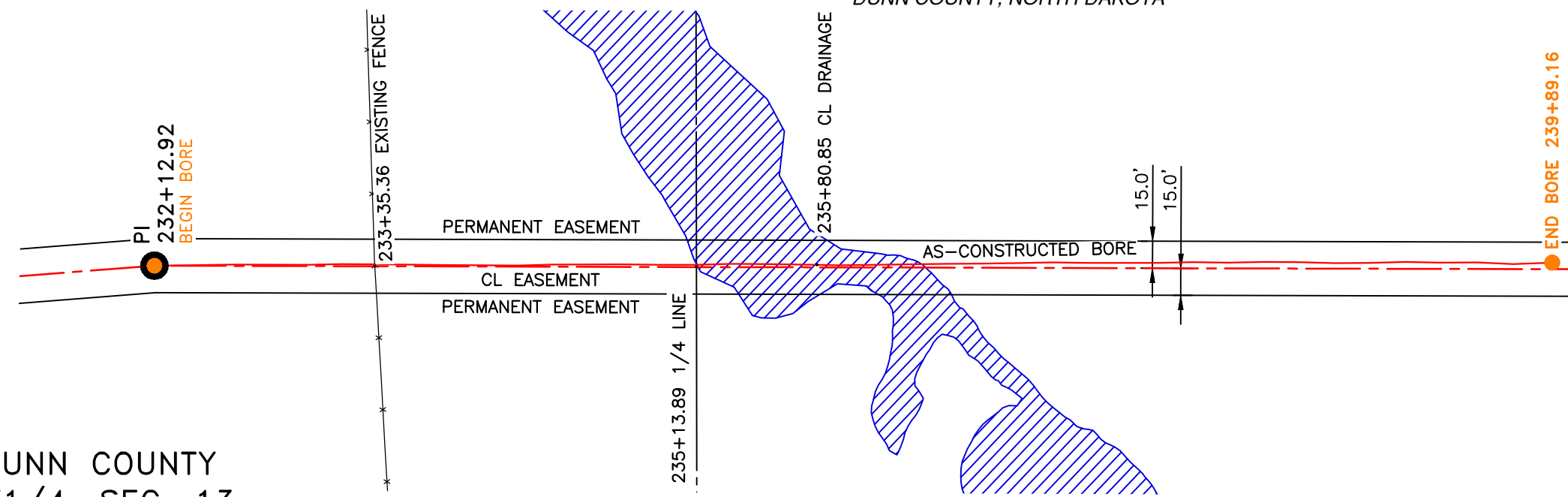
SECTION 12, T.144N., R.96W., DUNN COUNTY, ND

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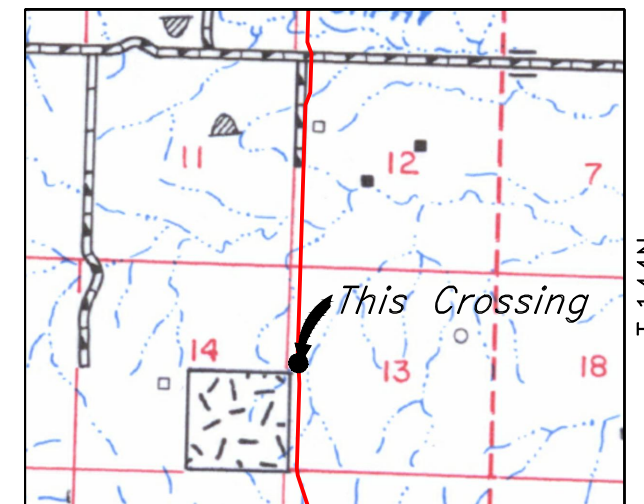
BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #7

DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
NW1/4, SEC. 13,
T144N, R96W

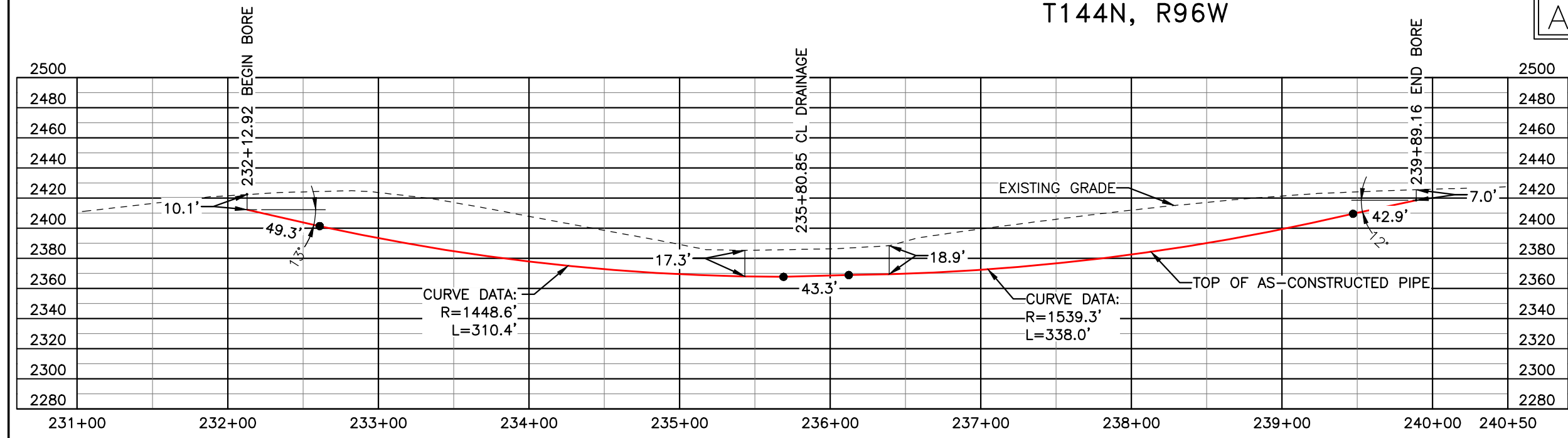
DUNN COUNTY
SW1/4, SEC. 13,
T144N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	232+12.92	47°17'34.13" N	102°47'54.42" W
END BORE	239+89.16	47°17'26.47" N	102°47'54.35" W

TOTAL HORIZONTAL DISTANCE = 776.24 FT.

TOTAL BORE LENGTH = 783.9 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
--- EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	784'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 54

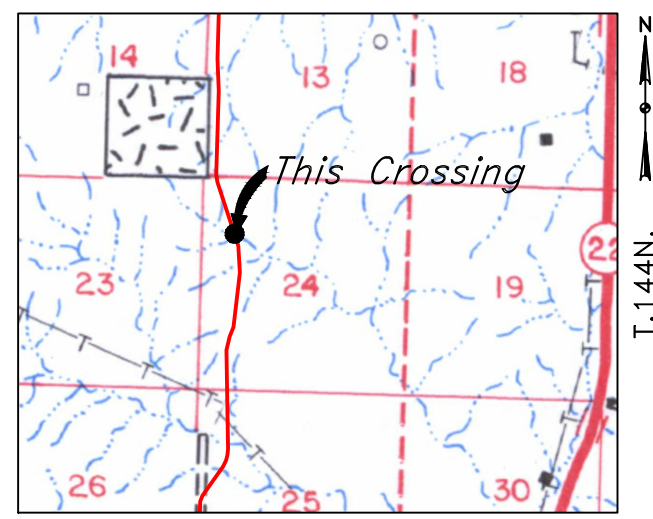
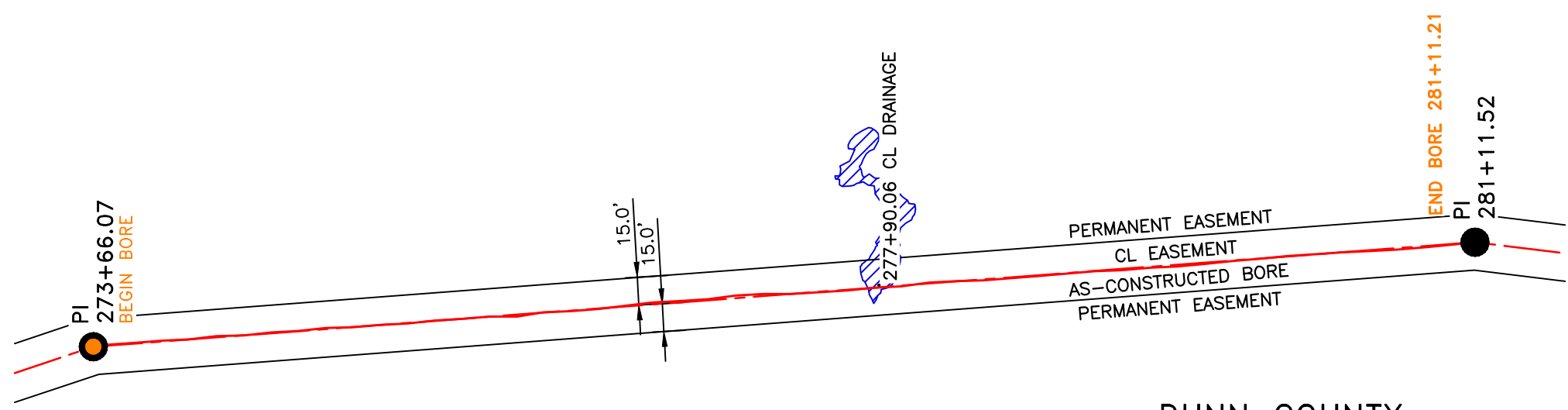
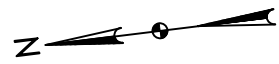
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE #7
SECTION 13, T.144N., R.96W., DUNN COUNTY, ND

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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #8

DUNN COUNTY, NORTH DAKOTA

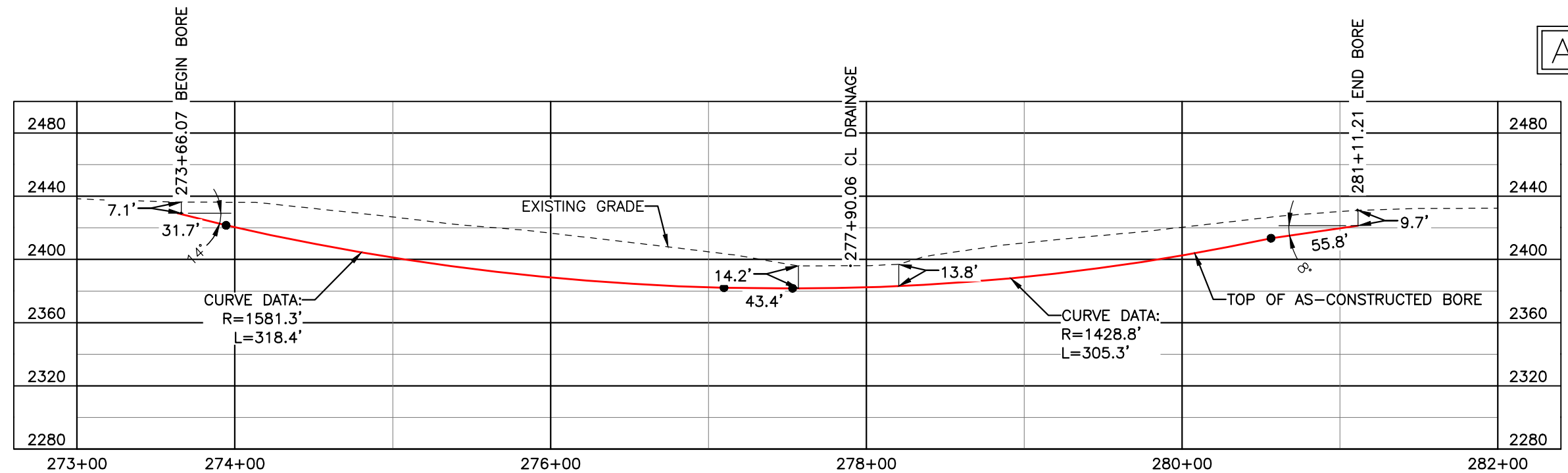


R.96W.
Location Map

**DUNN COUNTY
NW1/4, SEC. 24,
T144N, R96W**

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	273+66.07	47°16'54.18" N	102°47'45.48" W
END BORE	281+11.21	47°16'46.87" N	102°47'44.35" W

TOTAL HORIZONTAL DISTANCE = 745.14 FT.
TOTAL BORE LENGTH = 754.6 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	— X — EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	— FO — FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RR — RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	— (E) — OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— (U) — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	755'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

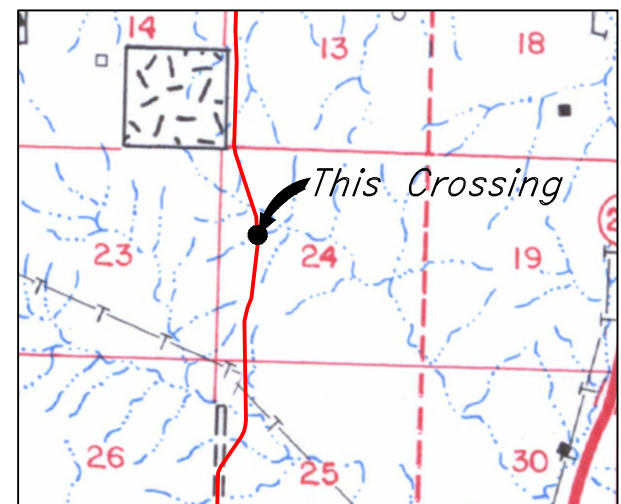
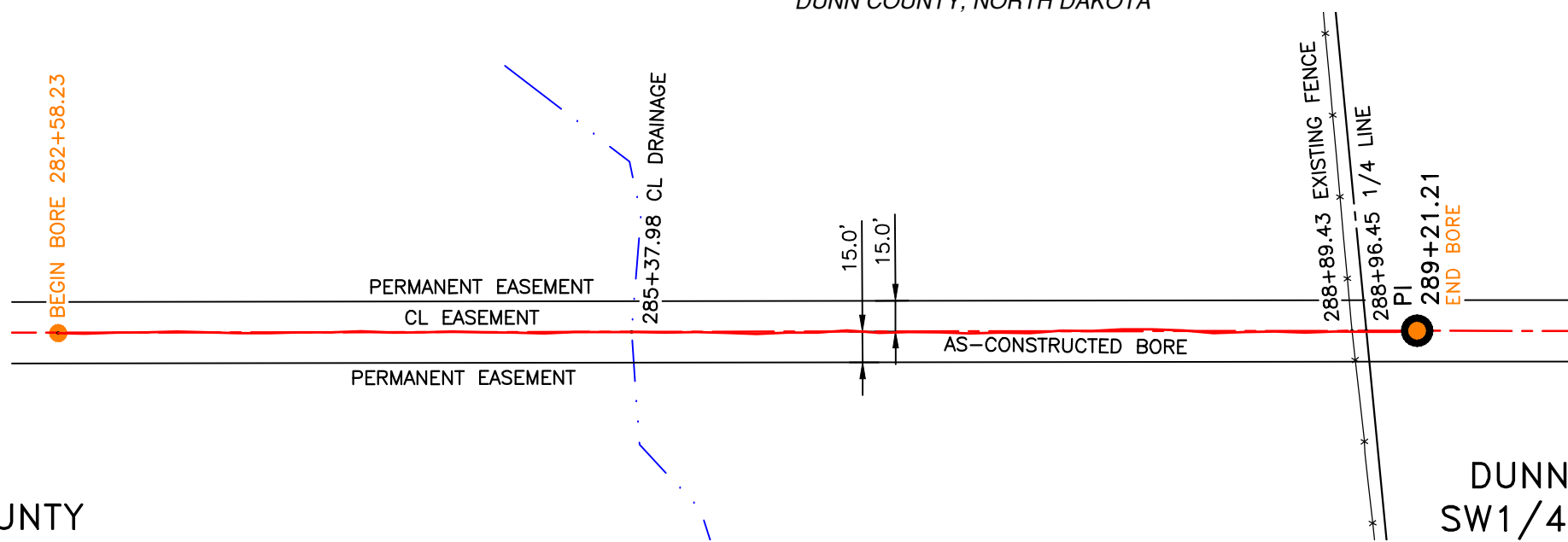
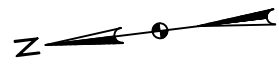
SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
DATE: 01/15/30
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 55

BOE PIPELINE, LLC
BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE #8
SECTION 24, T.144N., R.96W., DUNN COUNTY, ND

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Bismarck, ND 58503
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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #9 DUNN COUNTY, NORTH DAKOTA



R.96W.

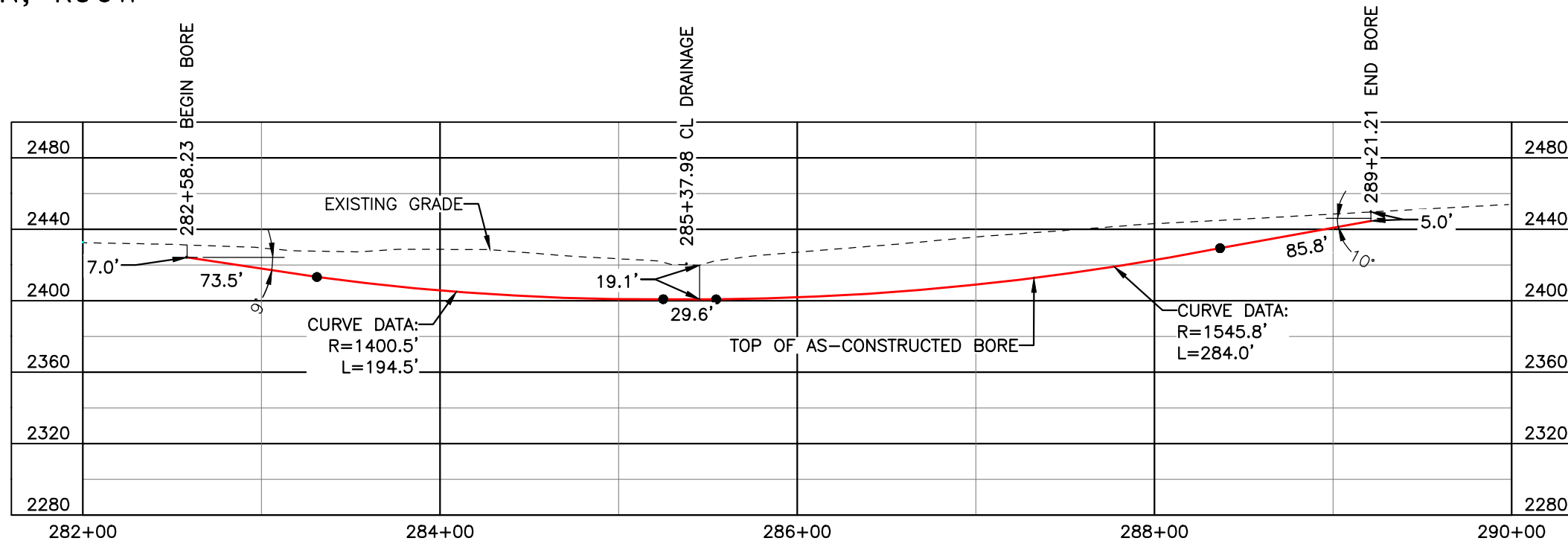
Location Map

DUNN COUNTY
NW1/4, SEC. 24,
T144N, R96W

DUNN COUNTY
SW1/4, SEC. 24,
T144N, R96W

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

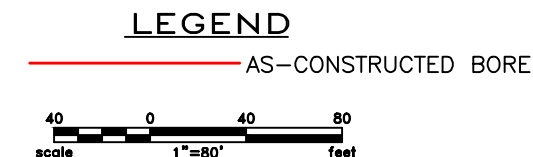


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	282+58.23	47°16'45.42" N	102°47'44.55" W
END BORE	289+21.21	47°16'38.90" N	102°47'45.43" W

TOTAL HORIZONTAL DISTANCE = 662.98 FT.

TOTAL BORE LENGTH = 667.4 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	667'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 56

BOE
BAKKEN OIL EXPRESS

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE
BORE #9
SECTION 24, T.144N., R.96W., DUNN COUNTY, ND

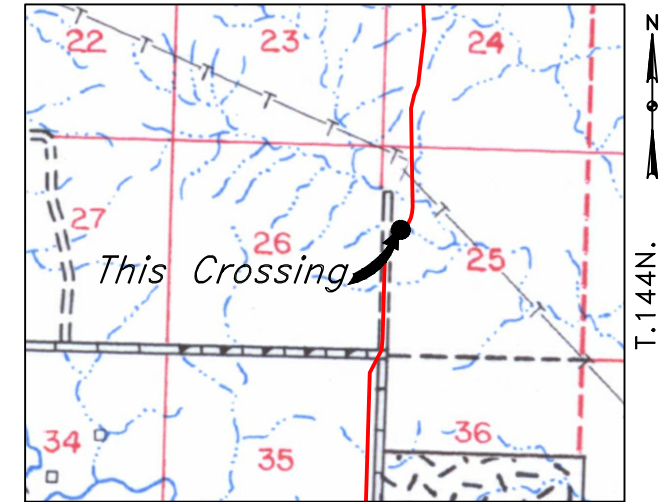
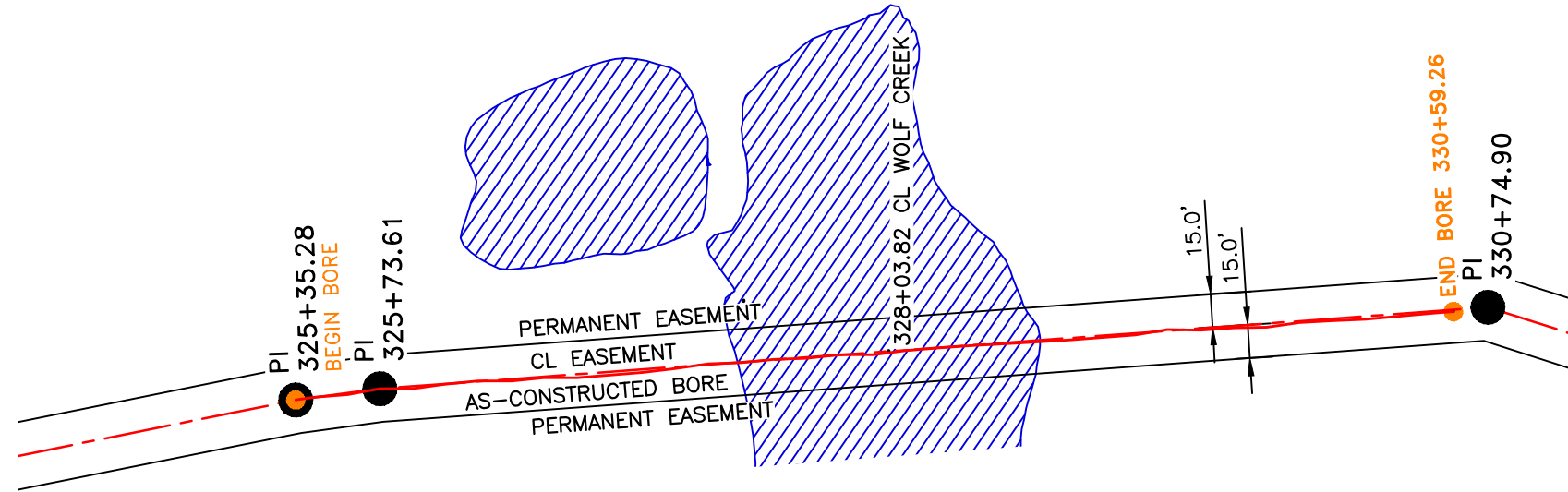
KLJ

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Bismarck, ND 58503
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BOE PIPELINE PHASE I WOLF CREEK CROSSING BORE #10

DUNN COUNTY, NORTH DAKOTA



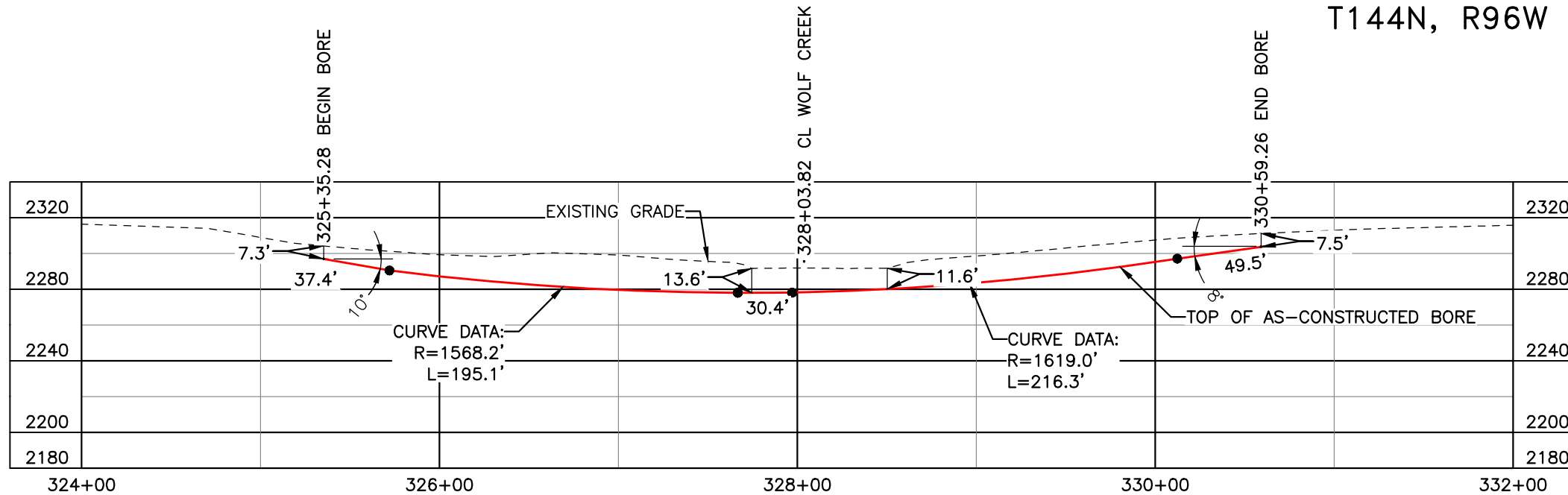
R.96W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

DUNN COUNTY
NW1/4, SEC. 25,
T144N, R96W

AS-CONSTRUCTED

FINAL
6/11/15



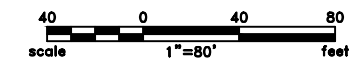
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	325+35.28	47°16'03.51" N	102°47'47.07" W
END BORE	330+59.26	47°15'58.36" N	102°47'47.65" W

TOTAL HORIZONTAL DISTANCE = 523.98 FT.

TOTAL BORE LENGTH = 528.7 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
- - - PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	— VALVE SETTING
— WATER LINE	—□— UTILITY POLE	— MARKER POST
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	— VALVE SETTING
— EXISTING ROAD	—	—
— UNDERGROUND COM. LINE	—	—

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	529'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

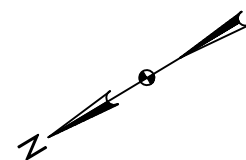
REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 WOLF CREEK CROSSING BORE #10
 SECTION 25, T.144N., R.96W., DUNN COUNTY, ND

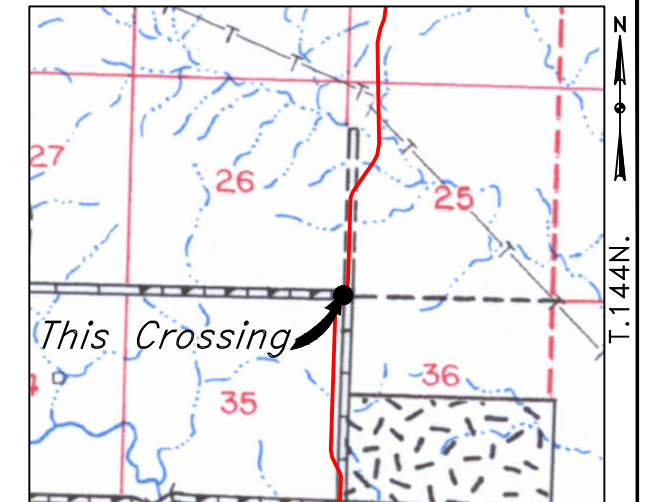
4585 Coleman Street
 Bismarck, ND 58503
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DUNN COUNTY
SW1/4, SEC. 25,
T144N, R96W

BOE PIPELINE PHASE I
11TH ST. SW CROSSING BORE # 11
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 35,
T144N, R96W



R.96W.

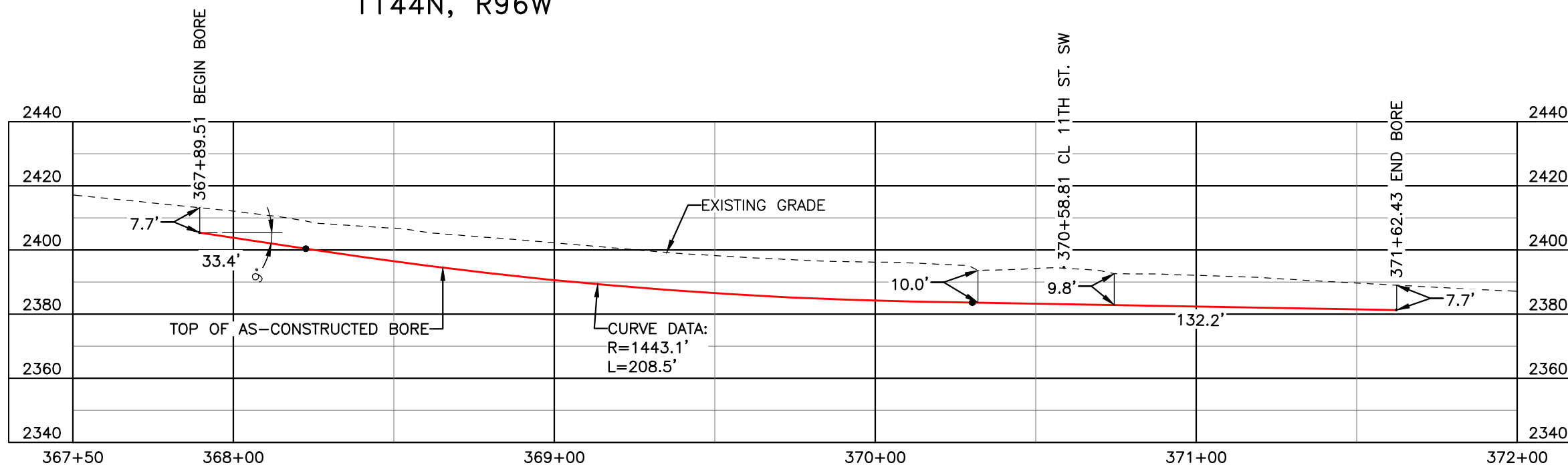
Location Map

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

DUNN COUNTY
SE1/4, SEC. 26,
T144N, R96W



FINAL
6/11/15

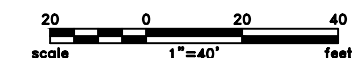
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	367+89.51	47°15'23.48" N	102°47'57.82" W
END BORE	371+62.43	47°15'20.16" N	102°48'00.15" W

TOTAL HORIZONTAL DISTANCE = 372.92 FT.

TOTAL BORE LENGTH = 374.1 FT.

LEGEND

AS-CONSTRUCTED BORE



LEGEND

—	PROPERTY LINE	—*—*	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE		WETLAND
- . - .	EASEMENT LINE	—R—R—	RAILROAD		EASEMENT
- - -	PIPELINE CENTERLINE	—(E)—	OVERHEAD ELECTRIC		TEST LEAD
—W—	WATER LINE	—U—	UTILITY POLE		
—R—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE		
- - -	EXISTING ROAD	—	MARKER POST		
- - -	UNDERGROUND COM. LINE	—	VALVE SETTING		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	374'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 40'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 58

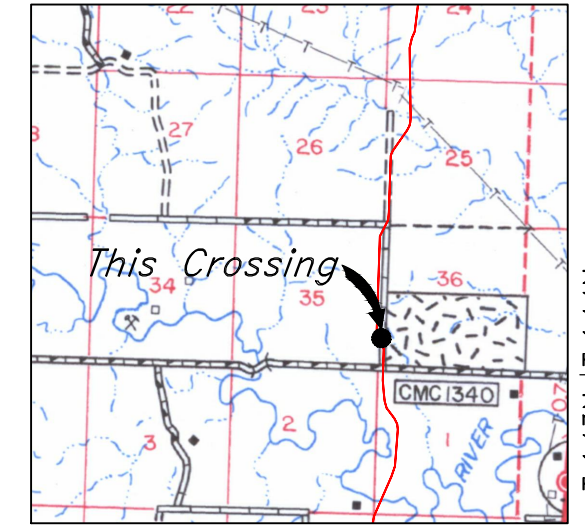
BOE PIPELINE, LLC
BOE PIPELINE PHASE I
11TH ST. SW CROSSING BORE #11
SECTIONS 25, 26 & 35, T.144N., R.96W., DUNN COUNTY, ND

4585 Coleman Street
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BOE PIPELINE PHASE I
109TH AVE. SW CROSSING BORE #12
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 SW1/4, SEC. 36,
 T144N, R96W

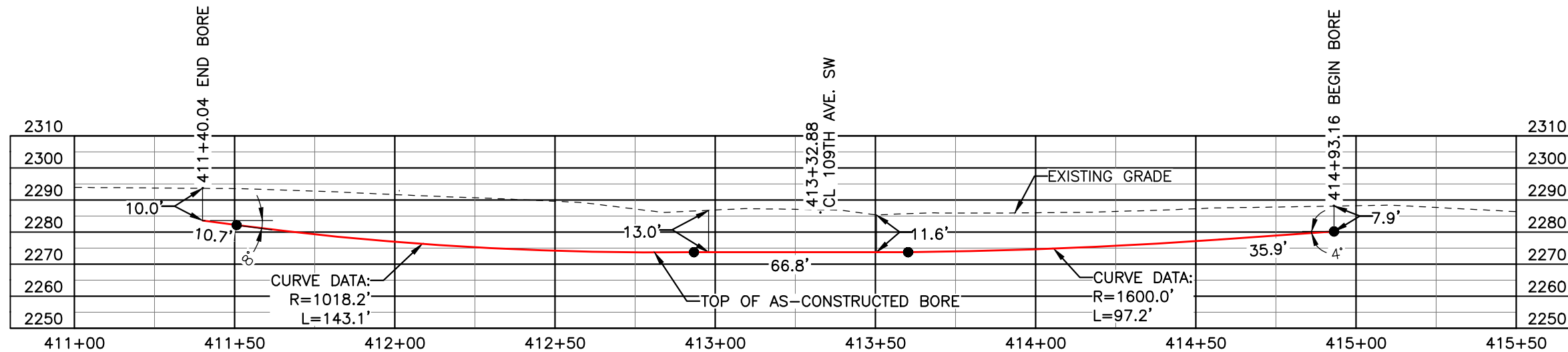
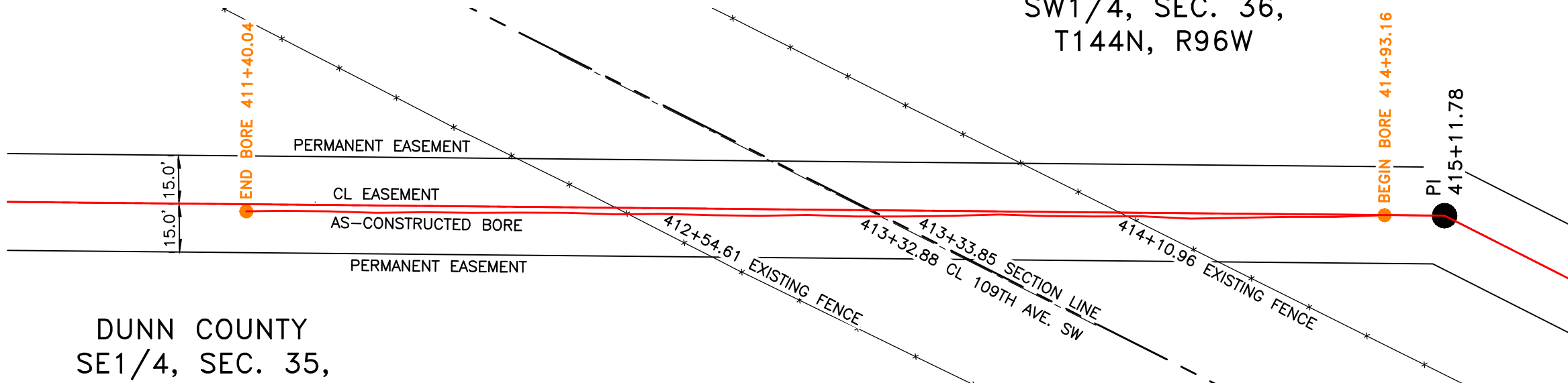
DUNN COUNTY
 SE1/4, SEC. 35,
 T144N, R96W



Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

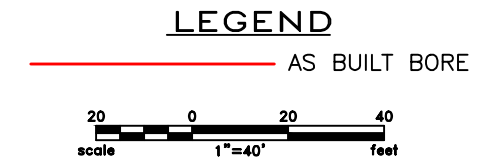


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	414+93.16	47°14'38.14" N	102°47'57.41" W
END BORE	411+40.04	47°14'41.25" N	102°47'59.69" W

TOTAL HORIZONTAL DISTANCE = 353.12 FT.

TOTAL BORE LENGTH = 353.7 FT.



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	-FO- FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RAILROAD	▨ EASEMENT
- - - PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
- - - UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	354'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

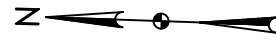
REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 109TH AVE. SW CROSSING BORE #12
 SECTIONS 35 & 36, T.144N., R.96W., DUNN COUNTY, ND

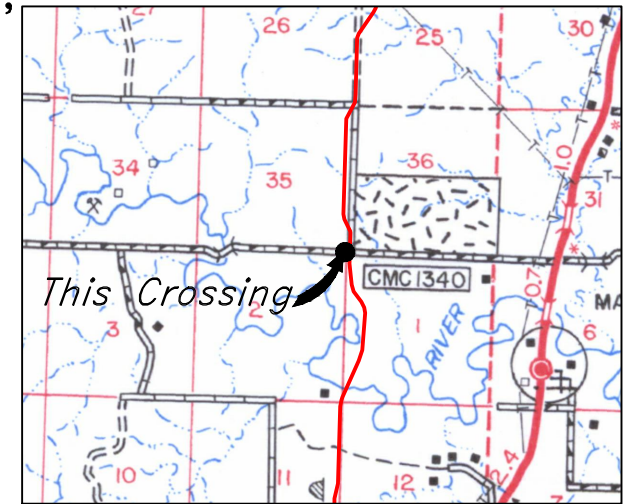
4585 Coleman Street
 Bismarck, ND 58503
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DUNN COUNTY
SW1/4, SEC. 36,
T144N, R96W

BOE PIPELINE PHASE I
12TH ST. SW CROSSING BORE #13
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 1,
T143N, R96W

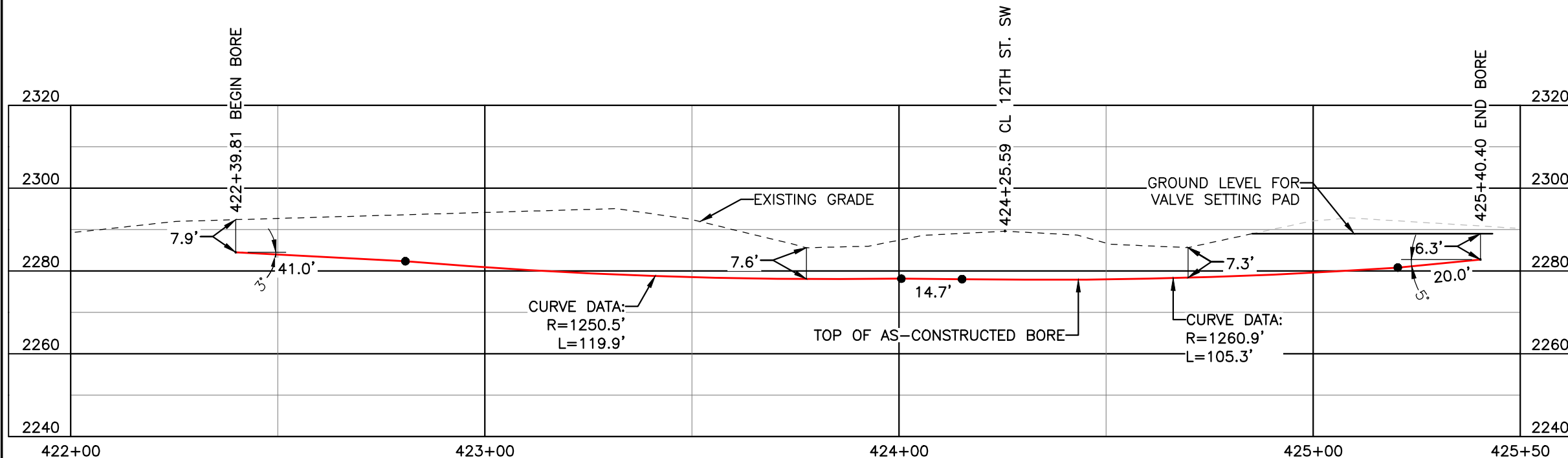
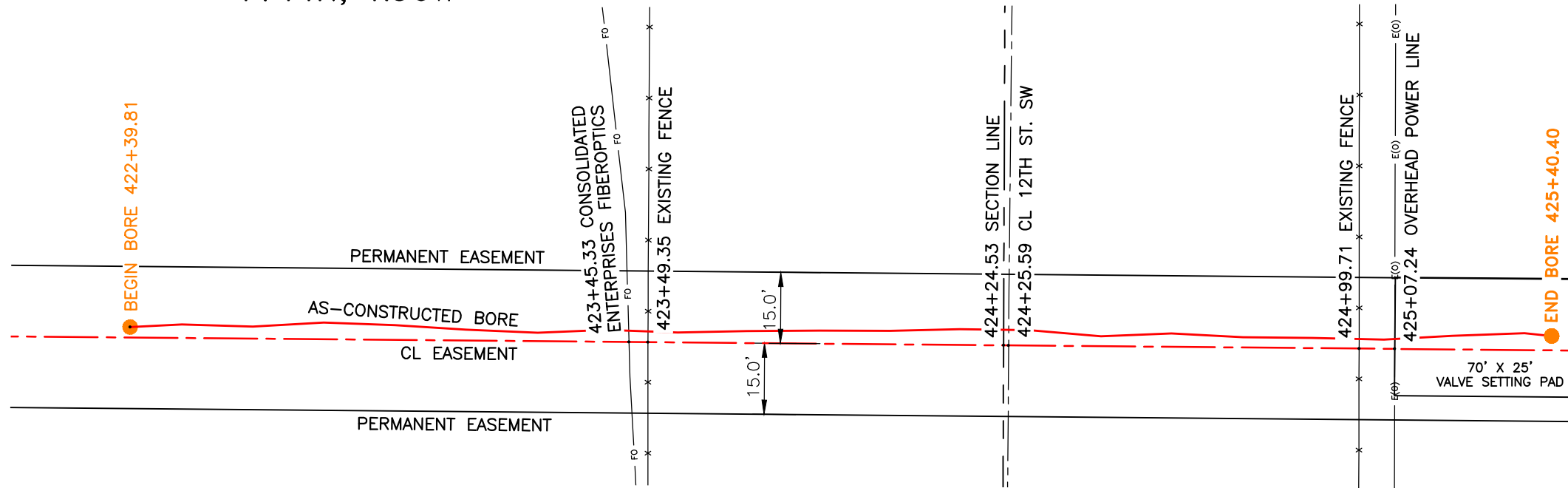


R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

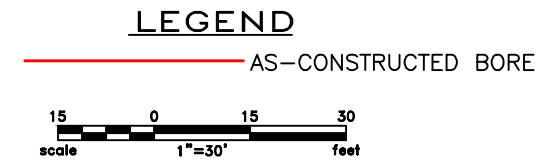
AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	422+39.81	47°14'30.78" N	102°47'57.29" W
END BORE	425+40.40	47°14'27.82" N	102°47'57.29" W

TOTAL HORIZONTAL DISTANCE = 300.59 FT.
TOTAL BORE LENGTH = 300.9 FT.



LEGEND

—	PROPERTY LINE	—x—x—	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE		WETLAND
- · - · -	EASEMENT LINE	—	RAILROAD		EASEMENT
—	PIPELINE CENTERLINE	—E(O)—	OVERHEAD ELECTRIC		TEST LEAD
—	WATER LINE	—	UTILITY POLE		
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE		
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE	—	VALVE SETTING		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	301'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
	AS-CONSTRUCTED	0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 60

BOE PIPELINE, LLC

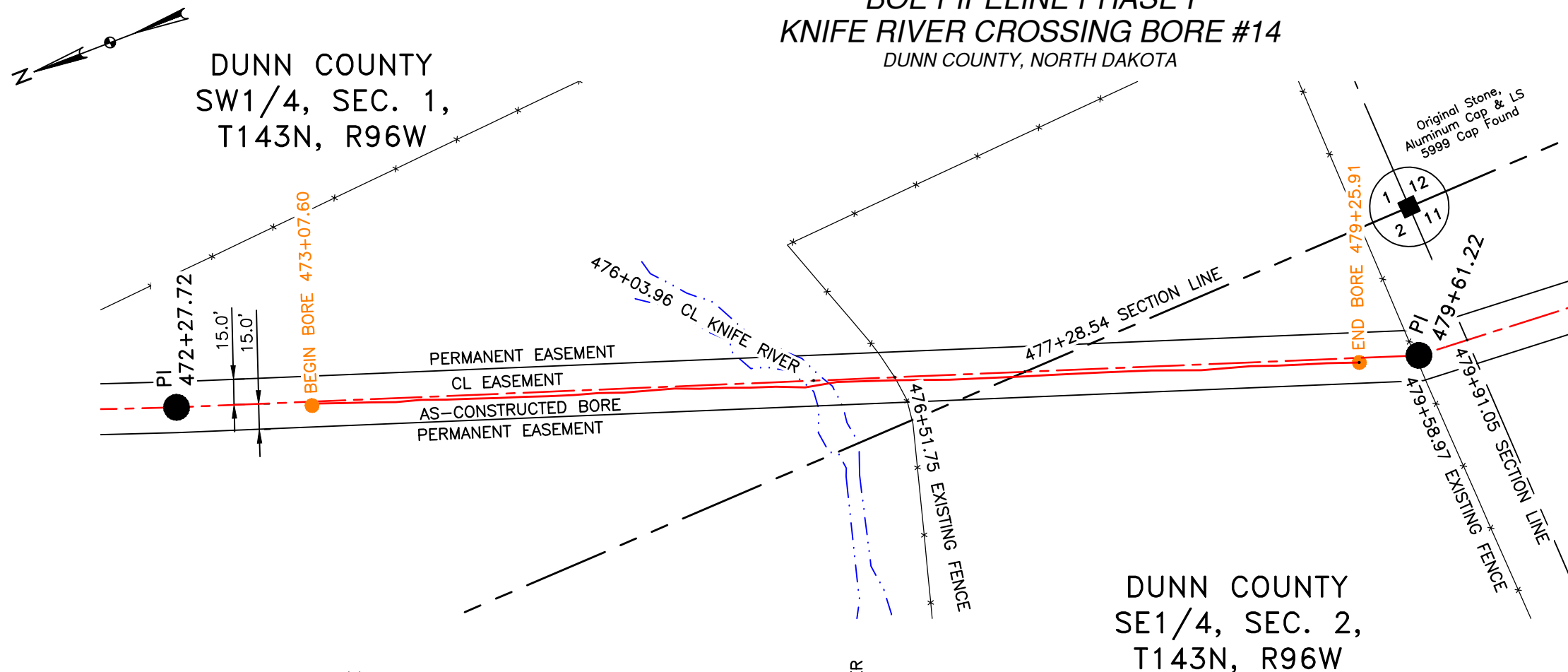
BOE PIPELINE PHASE I
12TH ST. SW CROSSING BORE #13
SECTION 36, T.144N., R.96W. & SECTION 1, T.143N., R.96W., DUNN COUNTY, ND

KLJ

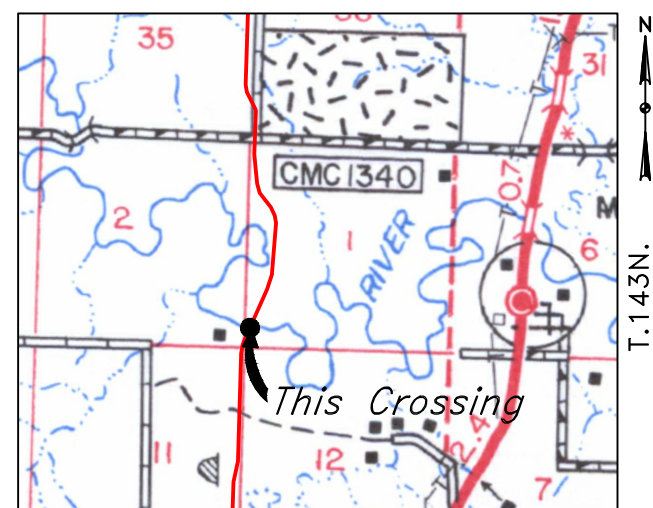
4585 Coleman Street
Bismarck, ND 58503
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**BOE PIPELINE PHASE I
KNIFE RIVER CROSSING BORE #14**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 1,
T143N, R96W



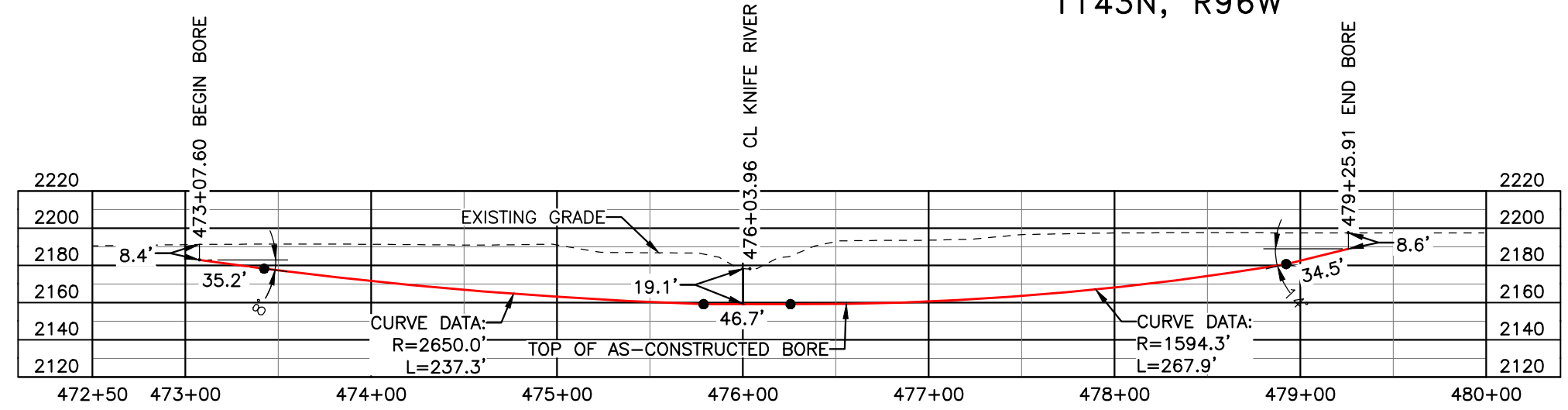
DUNN COUNTY
SE1/4, SEC. 2,
T143N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED

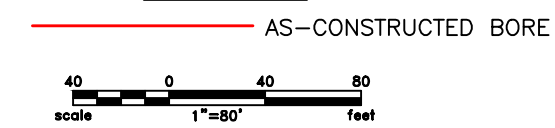


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	473+07.60	47°13'43.15" N	102°47'56.46" W
END BORE	479+25.91	47°13'37.45" N	102°47'59.66" W

TOTAL HORIZONTAL DISTANCE = 618.31 FT.
TOTAL BORE LENGTH = 621.6 FT.

LEGEND



LEGEND

—	PROPERTY LINE	—*—*	EXISTING FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE	▨	WETLAND
- · - · -	EASEMENT LINE	—R—	RAILROAD	▨	EASEMENT
—C—	PIPELINE CENTERLINE	—E—	OVERHEAD ELECTRIC	—	TEST LEAD
—W—	WATER LINE	—U—	UTILITY POLE		
—P—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE		
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE	—	VALVE SETTING		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	622'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 80'

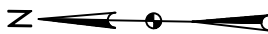
DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 61

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
KNIFE RIVER CROSSING BORE #14
SECTIONS 1 & 2, T.143N., R.96W., DUNN COUNTY, ND

KLJ

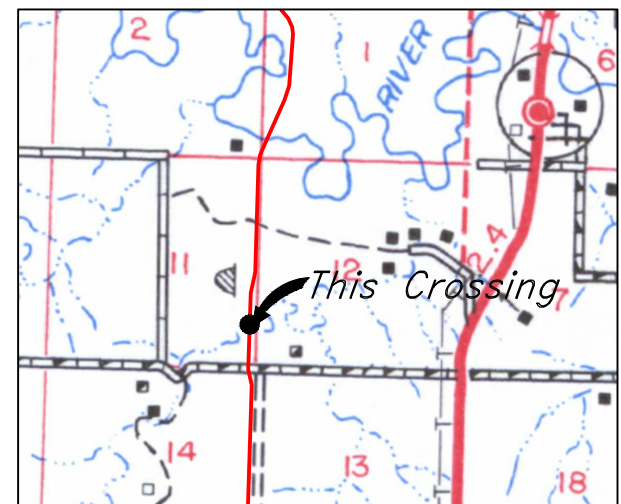
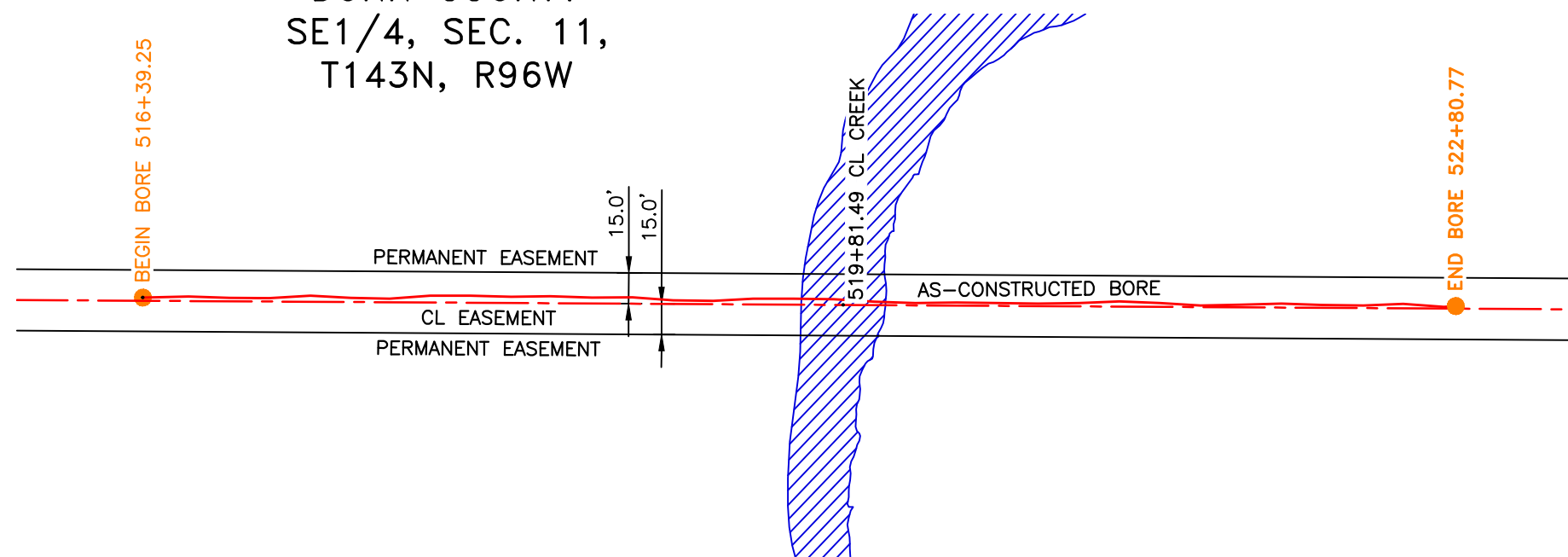
4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I CREEK CROSSING BORE #15

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 11,
T143N, R96W

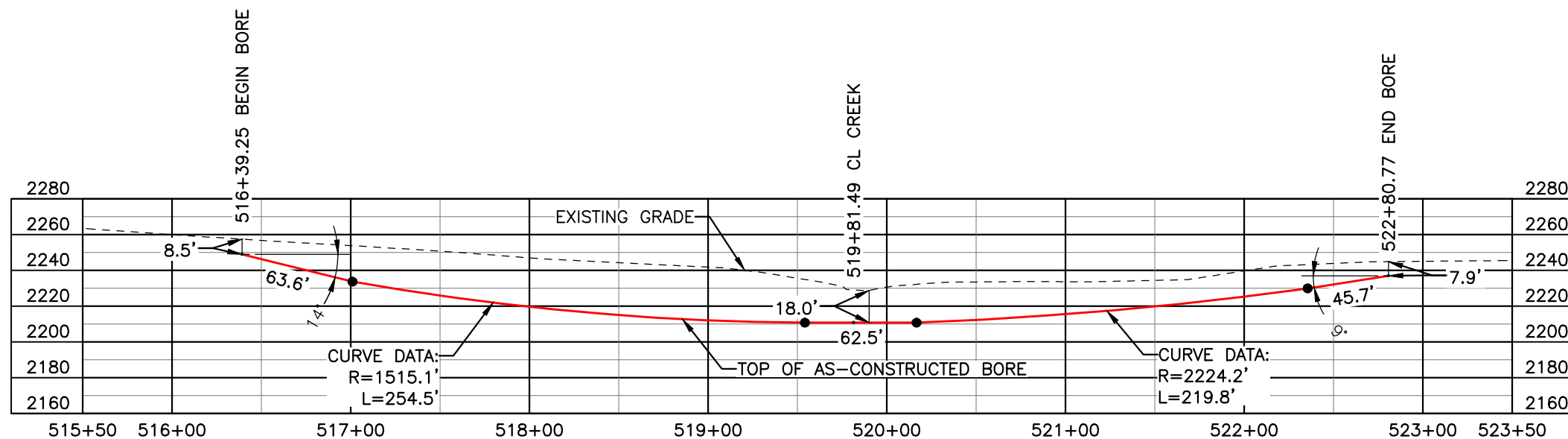


R.96W. | R.95W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED

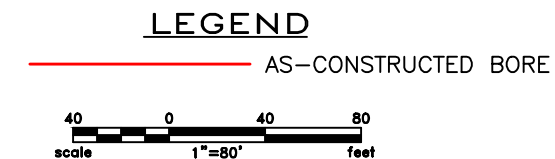
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	516+39.25	47°13'00.90" N	102°48'01.59" W
END BORE	522+80.77	47°12'54.57" N	102°48'01.59" W

TOTAL HORIZONTAL DISTANCE = 641.52 FT.

TOTAL BORE LENGTH = 646.1 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
- - - PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	—●— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	646'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
0	6/11/15	AS-CONSTRUCTED

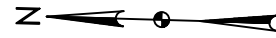
SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 62

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
CREEK CROSSING BORE #15
SECTION 11, T.143N., R.96W., DUNN COUNTY, ND

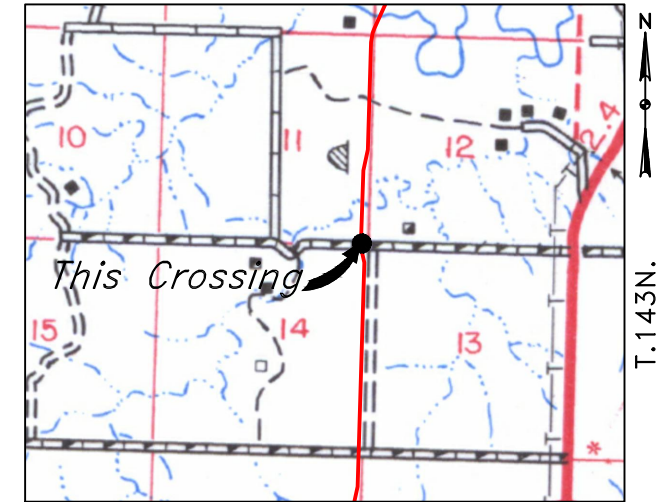
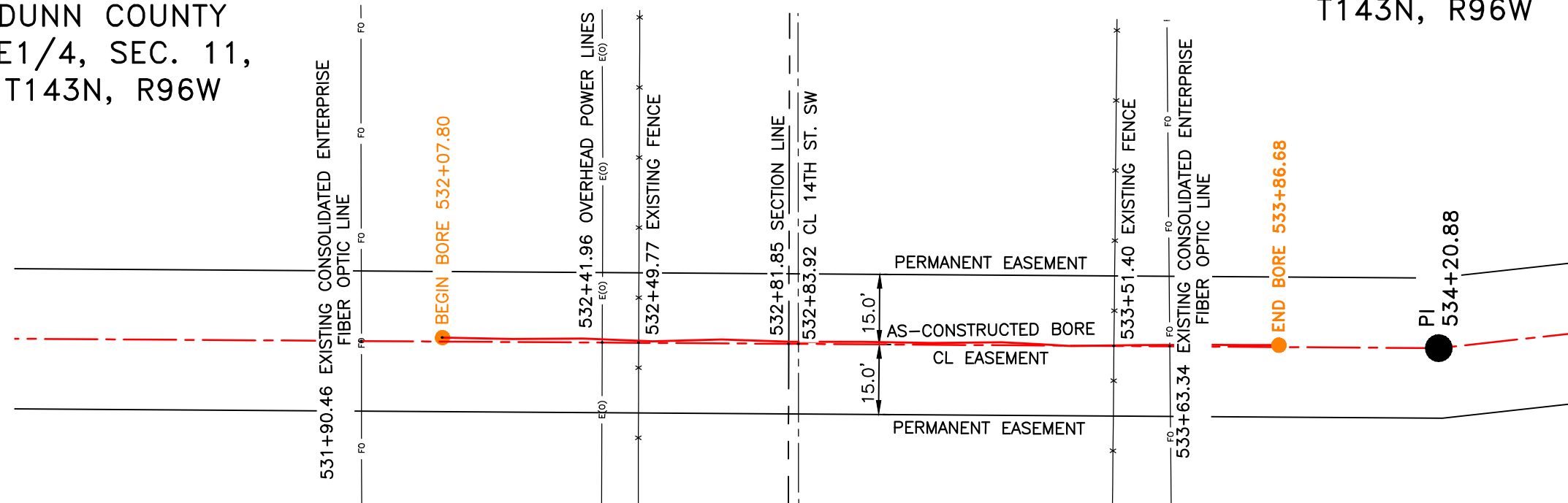
4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I
14TH ST. SW CROSSING BORE #16
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 NE1/4, SEC. 14,
 T143N, R96W

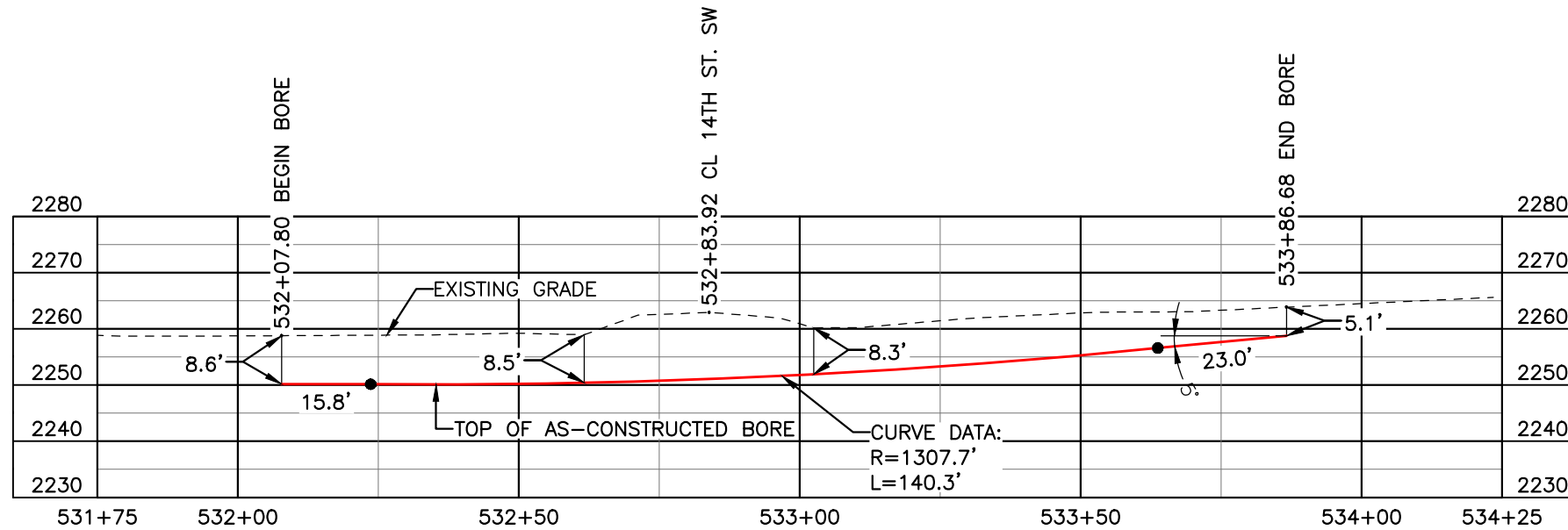
DUNN COUNTY
 SE1/4, SEC. 11,
 T143N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 MILS FBE
 30-35 MILS ARO

AS-CONSTRUCTED

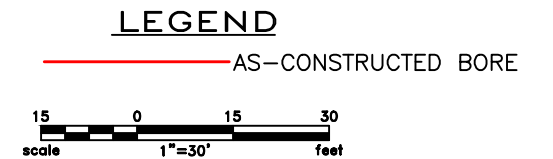


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	532+07.80	47°12'45.42" N	102°48'01.61" W
END BORE	533+86.68	47°12'43.66" N	102°48'01.62" W

TOTAL HORIZONTAL DISTANCE = 178.88 FT.

TOTAL BORE LENGTH = 179.1 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—E(O)— OVERHEAD ELECTRIC	— UTILITY POLE
— WATER LINE	— □ —	— TEST LEAD
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— □ — MARKER POST	
— UNDERGROUND COM. LINE	— □ — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	179'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

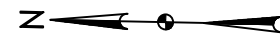
SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLI JOB NUMBER: 1713140
 REVISION: SHEET: 63

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
14TH ST. SW CROSSING BORE #16
 SECTIONS 11 & 14 T.143N., R.96W., DUNN COUNTY, ND

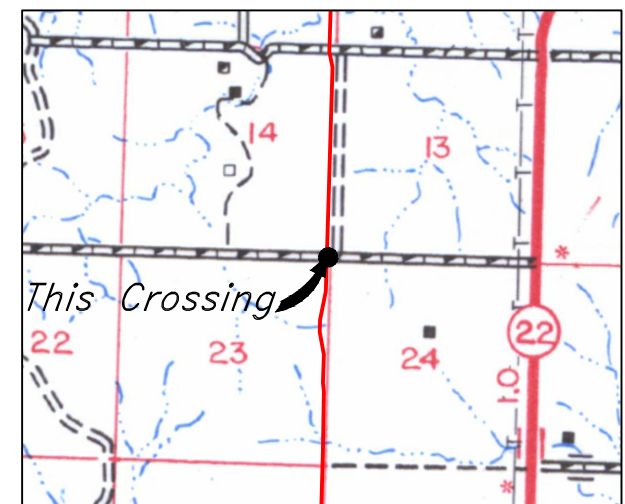
4585 Coleman Street
 Bismarck, ND 58503
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DUNN COUNTY
SE1/4, SEC. 14,
T143N, R96W

BOE PIPELINE PHASE I
15TH ST. SW CROSSING BORE #17
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 23,
T143N, R96W

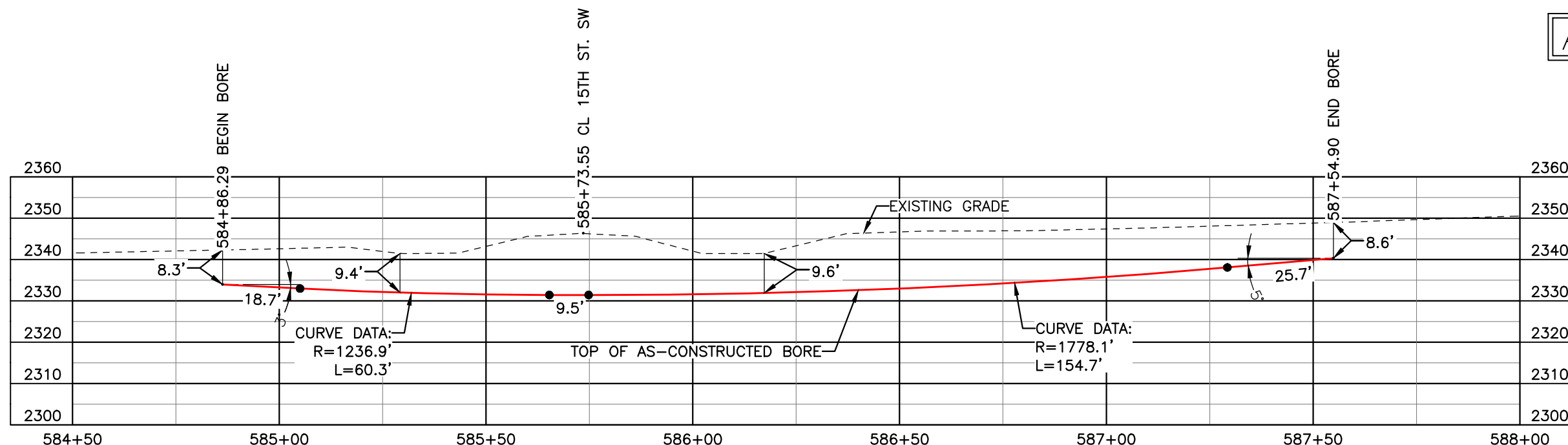
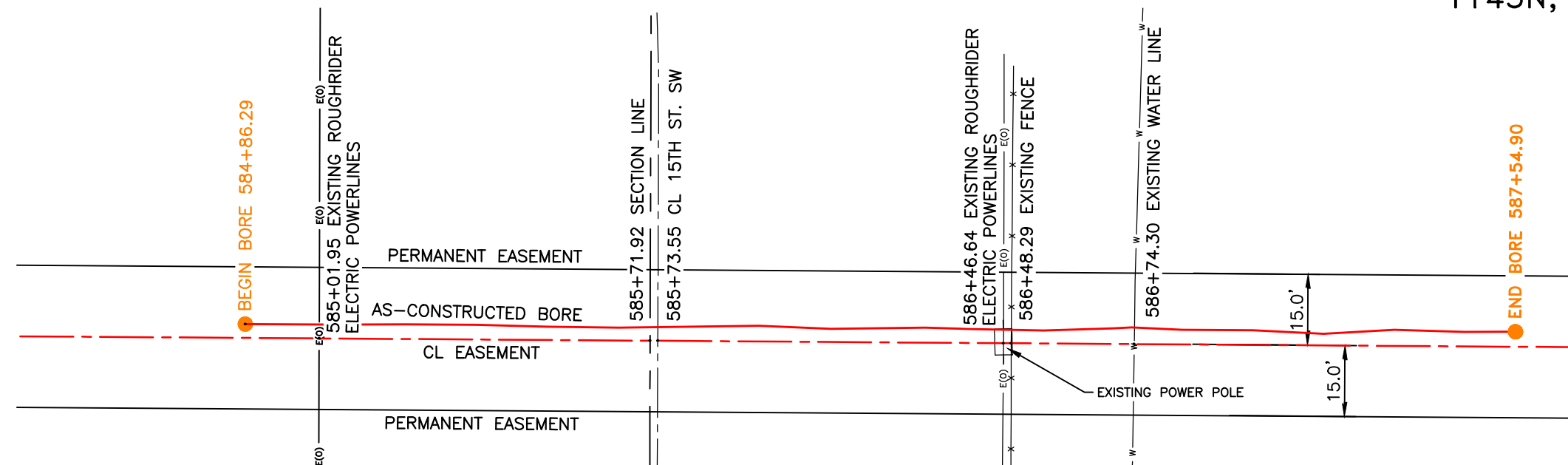


R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED

FINAL
6/11/15



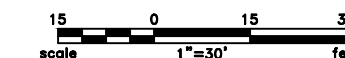
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	584+86.29	47°11'53.43" N	102°48'00.24" W
END BORE	587+54.90	47°11'50.78" N	102°48'00.24" W

TOTAL HORIZONTAL DISTANCE = 268.61 FT.

TOTAL BORE LENGTH = 268.9 FT.

LEGEND

— AS-CONSTRUCTED BORES



LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- · - · -	EASEMENT LINE
- - -	PIPELINE CENTERLINE
- - -	FOREIGN PIPELINE
- - -	EXISTING ROAD
- - -	UNDERGROUND COM. LINE
- · - · -	EXISTING FENCE
- · - · -	FIBER OPTIC COM. LINE
- · - · -	RAILROAD
- · - · -	OVERHEAD ELECTRIC
- · - · -	UTILITY POLE
- · - · -	AS-CONSTRUCTED BORE
- · - · -	MARKER POST
- · - · -	VALVE SETTING
▨	AVOIDANCE AREA
▨	WETLAND
▨	EASEMENT
○	TEST LEAD

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
2	269'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS			REVISIONS	
DWG. NO.	DESCRIPTION	NO.	DATE	DESCRIPTION
		0	6/11/15	AS-CONSTRUCTED

SCALE: 1" = 30'
DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 64

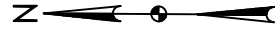
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
15TH ST. SW CROSSING BORE #17
SECTIONS 14 & 23 T.143N., R.96W., DUNN COUNTY, ND

KLJ

4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE I
17TH ST. SW CROSSING BORE #18
 DUNN COUNTY, NORTH DAKOTA

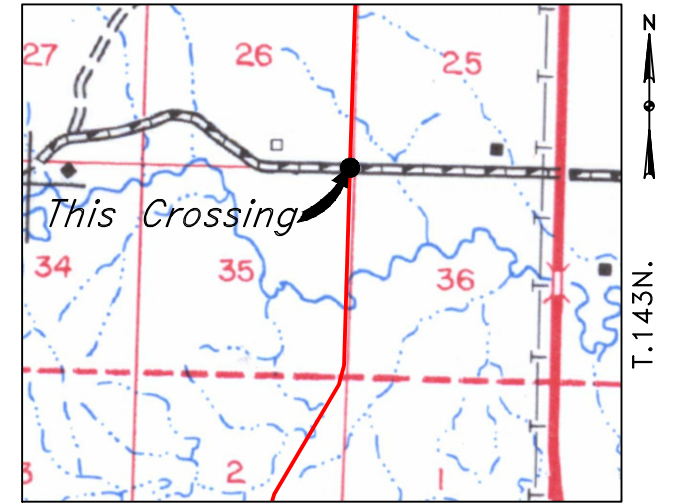
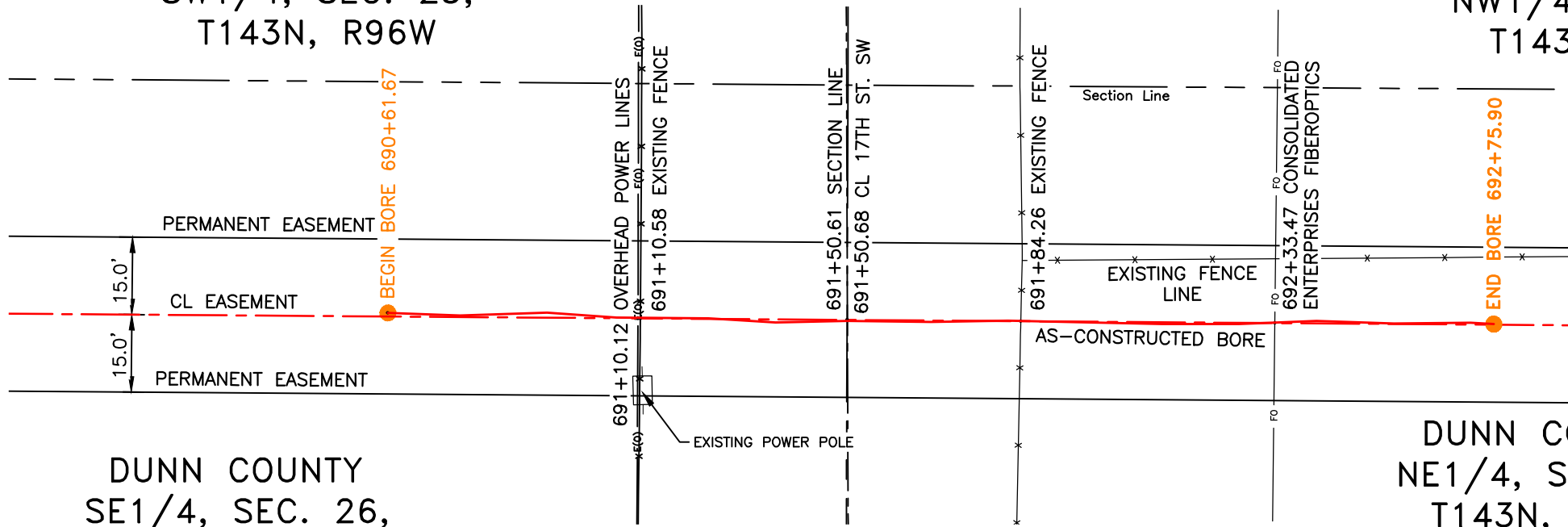


DUNN COUNTY
 SW1/4, SEC. 25,
 T143N, R96W

DUNN COUNTY
 NW1/4, SEC. 36,
 T143N, R96W

DUNN COUNTY
 SE1/4, SEC. 26,
 T143N, R96W

DUNN COUNTY
 NE1/4, SEC. 35,
 T143N, R96W



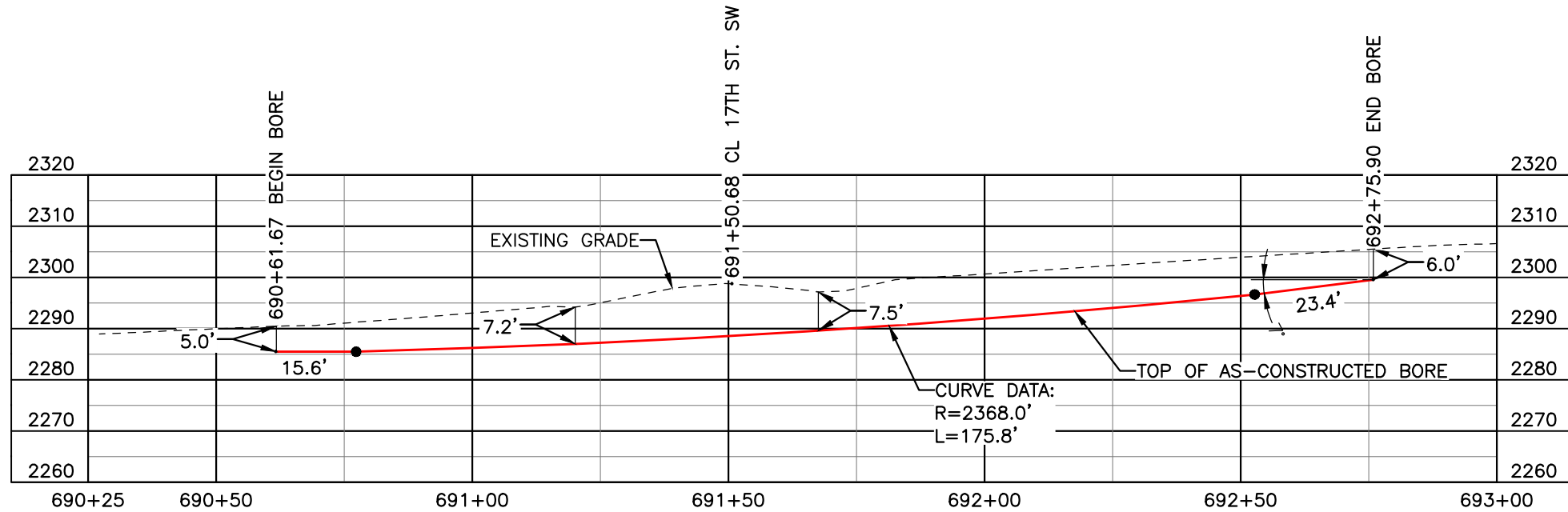
R.96W. | R.95W.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	690+61.67	47°10'09.30" N	102°47'59.66" W
END BORE	692+75.90	47°10'07.18" N	102°47'59.68" W

TOTAL HORIZONTAL DISTANCE = 214.23 FT.

TOTAL BORE LENGTH = 214.8 FT.



LEGEND

— PROPERTY LINE	— X — EXISTING FENCE	— AVOIDANCE AREA
— SECTION LINE	— FO — FIBER OPTIC COM. LINE	— WETLAND
— EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— (E) — OVERHEAD ELECTRIC	— UTILITY POLE
— WATER LINE	— □ — UTILITY POLE	— AS-CONSTRUCTED BORE
— FOREIGN PIPELINE	— □ — AS-CONSTRUCTED BORE	— MARKER POST
— EXISTING ROAD	— □ — MARKER POST	— VALVE SETTING
— UNDERGROUND COM. LINE	— □ — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	215'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

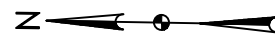
DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 65

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 15TH ST. SW CROSSING BORE #18
 SECTIONS 26 & 35 T.143N., R.96W., DUNN COUNTY, ND

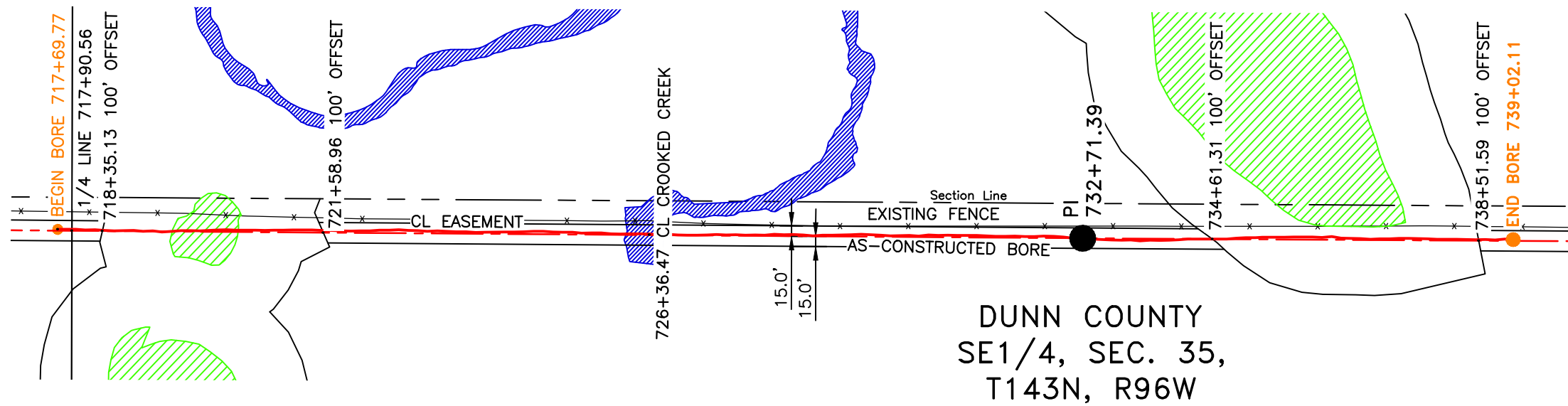
KLJ

4585 Coleman Street
 Bismarck, ND 58503
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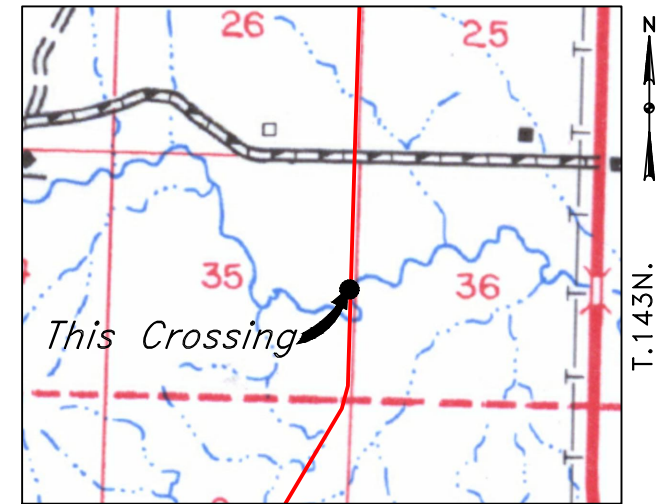


DUNN COUNTY
SW1/4, SEC. 36,
T143N, R96W

BOE PIPELINE PHASE I
AVOIDANCE AREAS AND CROOKED CREEK CROSSING BORE #19
DUNN COUNTY, NORTH DAKOTA



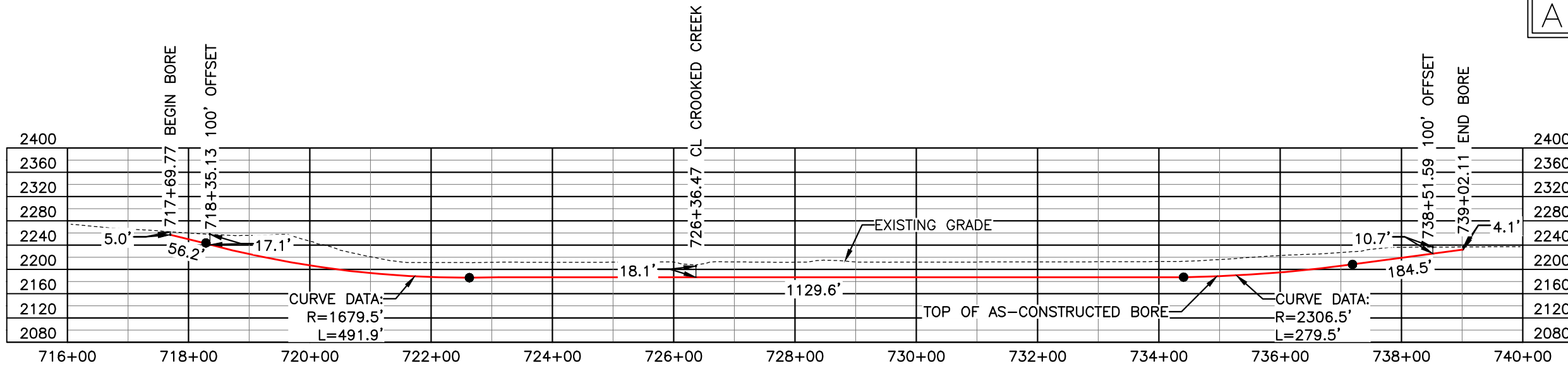
DUNN COUNTY
SE1/4, SEC. 35,
T143N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	717+69.77	47°09'42.57" N	102°47'59.72" W
END BORE	739+02.11	47°09'21.52" N	102°47'59.76" W

TOTAL HORIZONTAL DISTANCE = 2132.34 FT.

TOTAL BORE LENGTH = 2141.7 FT.

LEGEND

AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	—●— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	—○— AS-CONSTRUCTED BORE	
— EXISTING ROAD	—□— MARKER POST	
— UNDERGROUND COM. LINE	—▲— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	2142'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 200'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: 1 SHEET: 66

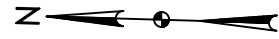
BOE **BAKKEN OIL EXPRESS**

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
AVOIDANCE AREAS AND CROOKED CREEK CROSSING BORE #19
SECTION 35 T.143N., R.96W., DUNN COUNTY, ND

KLJ

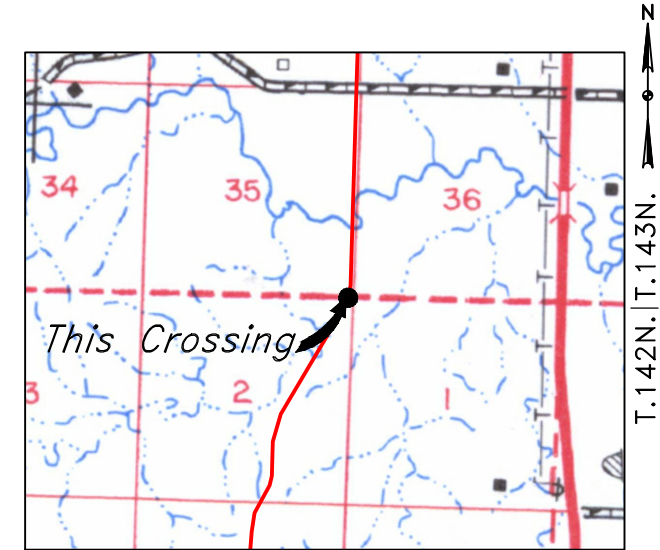
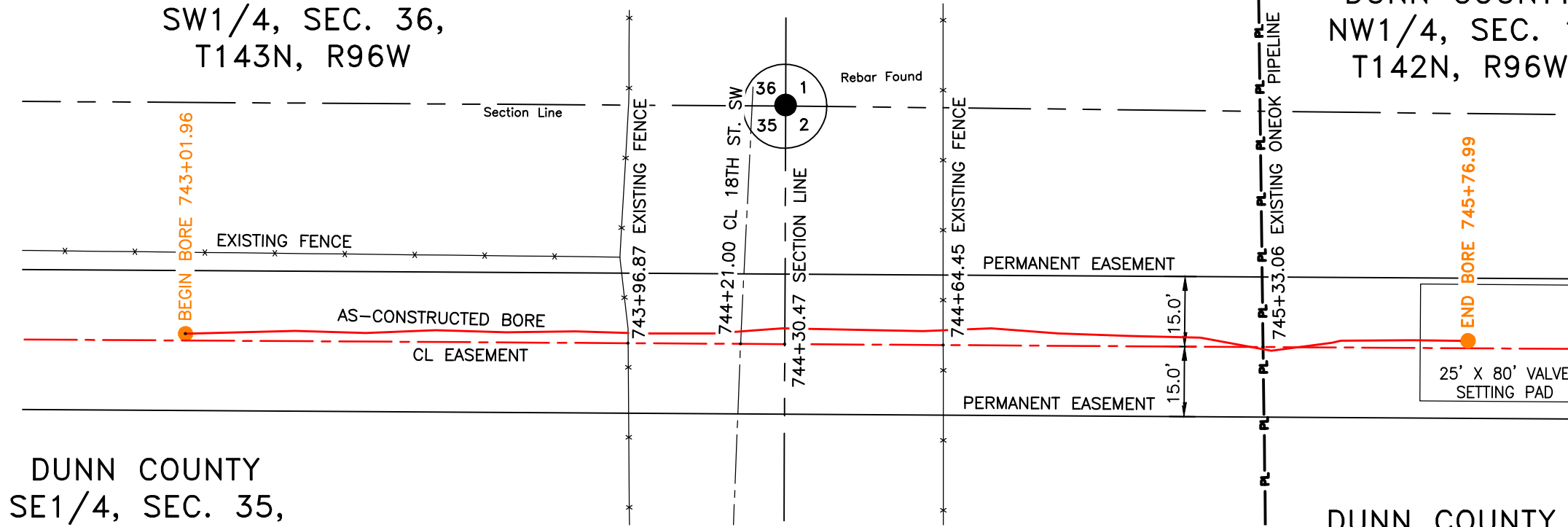
4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I
18TH ST. SW CROSSING BORE #20
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 SW1/4, SEC. 36,
 T143N, R96W

DUNN COUNTY
 NW1/4, SEC. 1,
 T142N, R96W



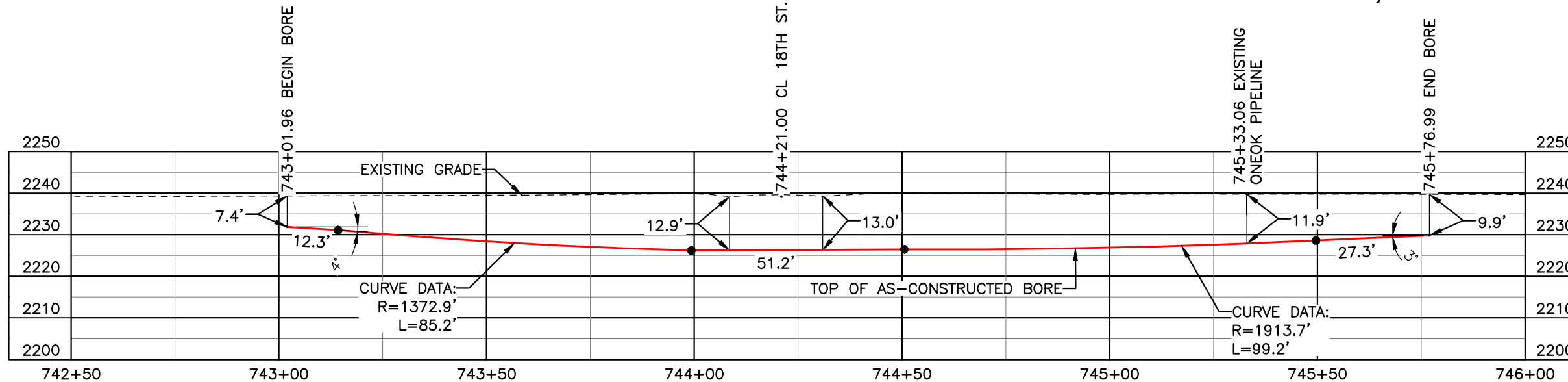
R.96W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED

DUNN COUNTY
 SE1/4, SEC. 35,
 T143N, R96W

DUNN COUNTY
 NE1/4, SEC. 2,
 T142N, R96W



FINAL
6/11/15

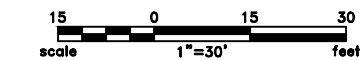
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	743+01.96	47°09'17.58" N	102°47'59.76" W
END BORE	745+76.99	47°09'14.86" N	102°47'59.76" W

TOTAL HORIZONTAL DISTANCE = 275.03 FT.

TOTAL BORE LENGTH = 275.2 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
- - - EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	275'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

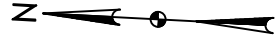
REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'
 DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLI JOB NUMBER: 1713140
 REVISION: SHEET: 67

BOE PIPELINE, LLC
 BOE PIPELINE PHASE I
 18TH ST. SW CROSSING BORE #20
 SECTION 35 T.143N., R.96W. & SECTION 2 T.142N., R.96W., DUNN COUNTY, ND

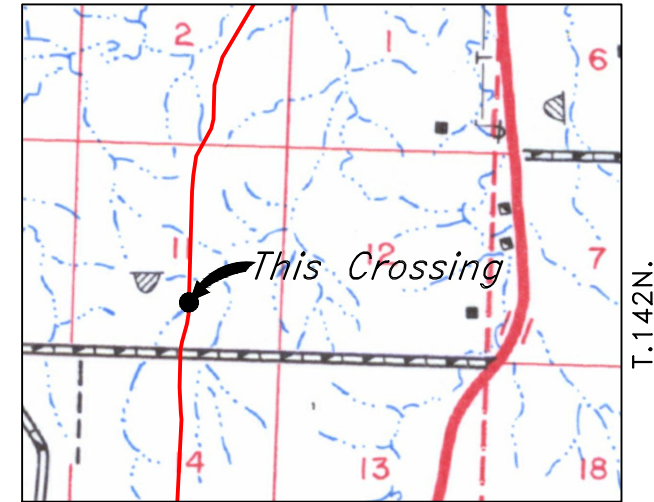
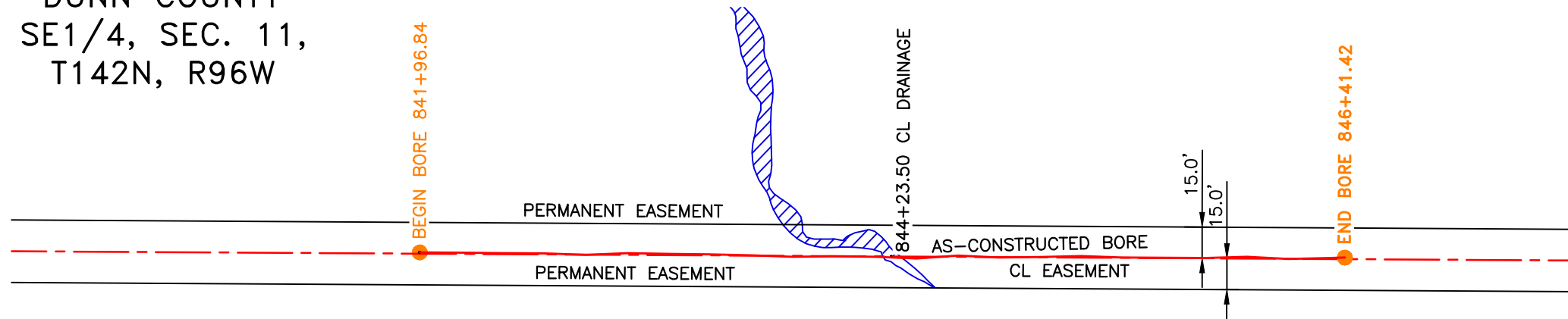
4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #21

DUNN COUNTY, NORTH DAKOTA

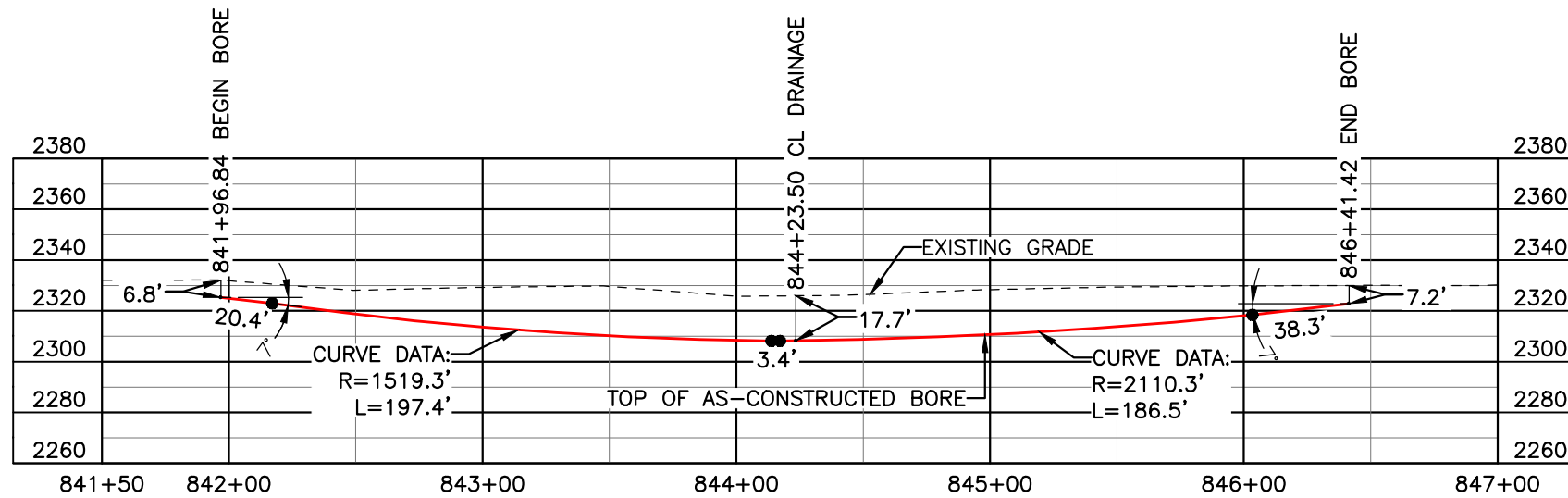
DUNN COUNTY
SE1/4, SEC. 11,
T142N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mills FBE, 30-35 Mills ARO

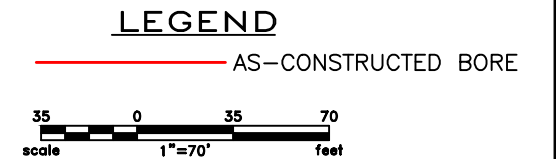
AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	841+96.84	47°07'45.27" N	102°48'34.54" W
END BORE	846+41.42	47°07'40.88" N	102°48'34.53" W

TOTAL HORIZONTAL DISTANCE = 444.58 FT.
 TOTAL BORE LENGTH = 446.0 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	—U— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	446'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

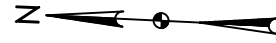
SCALE: 1" = 70'

DRAWN BY: M. STICKLAND
 DATE: 6/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLI JOB NUMBER: 1713140
 REVISION: SHEET: 68

BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE #21**
SECTION 11 T.142N., R.96W., DUNN COUNTY, ND

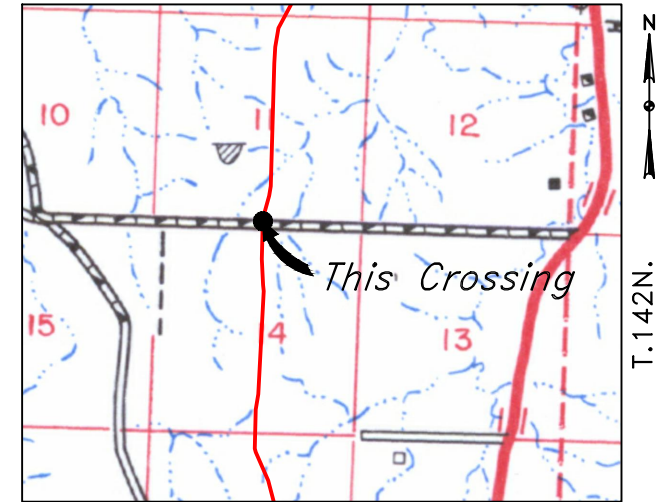
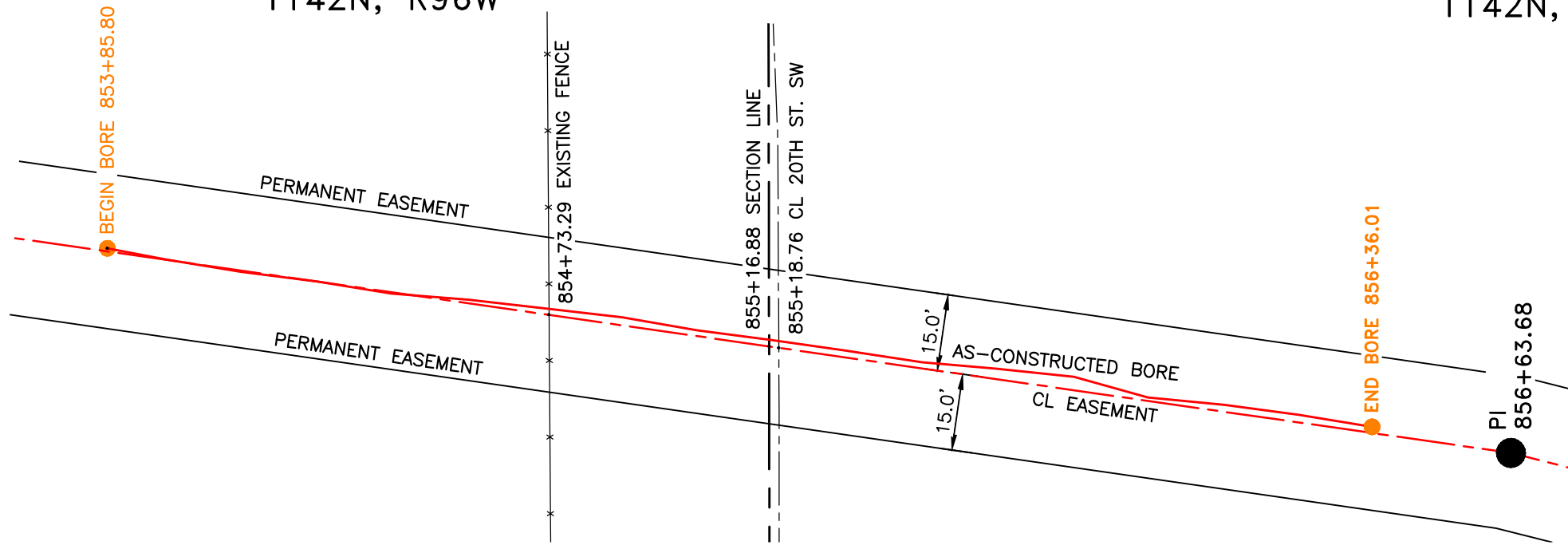
4585 Coleman Street
Bismarck, ND 58503
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DUNN COUNTY
SE1/4, SEC. 11,
T142N, R96W

BOE PIPELINE PHASE I
20TH ST. SW CROSSING BORE #22
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 14,
T142N, R96W

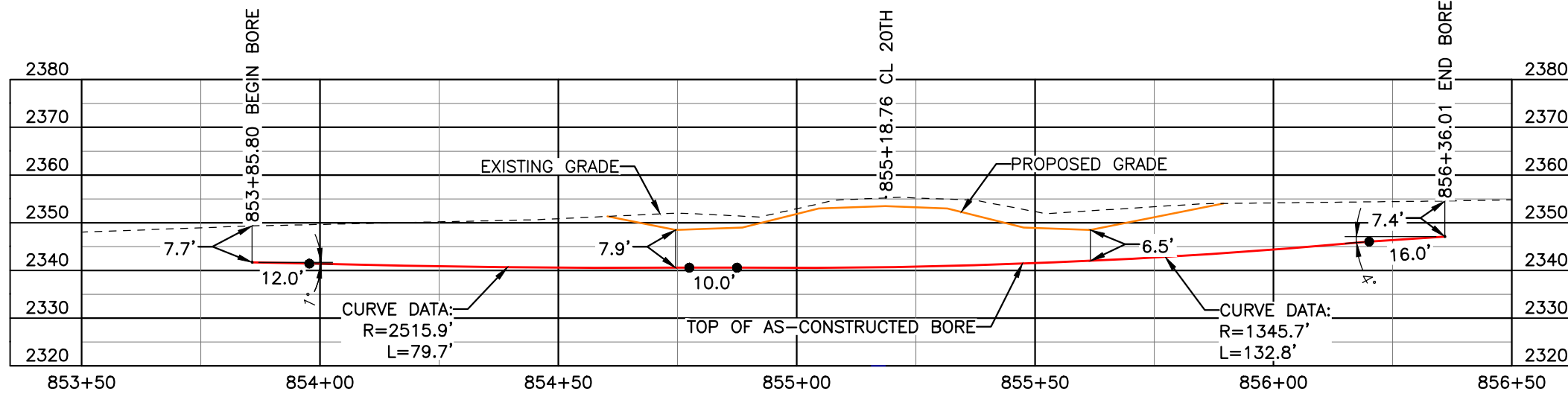


R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

AS-CONSTRUCTED

FINAL
6/11/15



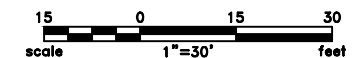
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	853+85.80	47°07'33.54" N	102°48'34.52" W
END BORE	856+36.01	47°07'31.09" N	102°48'35.00" W

TOTAL HORIZONTAL DISTANCE = 250.21 FT.

TOTAL BORE LENGTH = 250.5 FT.

LEGEND

AS-CONSTRUCTED BORE



LEGEND

—	PROPERTY LINE	—*—*	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE		WETLAND
- - -	EASEMENT LINE	—R—R—	RAILROAD		EASEMENT
—	PIPELINE CENTERLINE	—(O)—	OVERHEAD ELECTRIC		TEST LEAD
—	WATER LINE	—□—	UTILITY POLE		
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE		
—	EXISTING ROAD	—	MARKER POST		
—	UNDERGROUND COM. LINE	—	VALVE SETTING		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	251'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'
DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 69

BOE **BAKKEN OIL EXPRESS**
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
20TH ST. SW CROSSING BORE #22
SECTIONS 11 & 14 T.142N., R.96W., DUNN COUNTY, ND

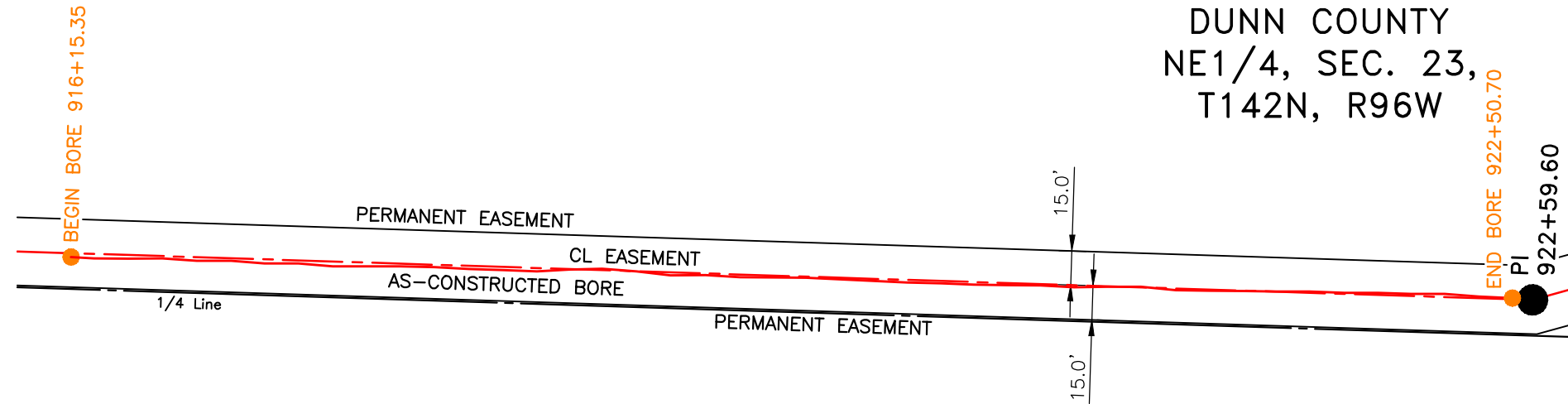
KLJ

4585 Coleman Street
Bismarck, ND 58503
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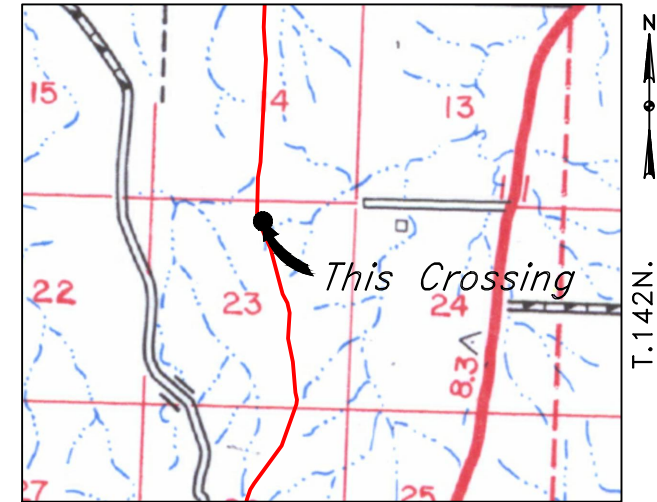


**BOE PIPELINE PHASE I
TERRAIN BORE #23**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 23,
T142N, R96W



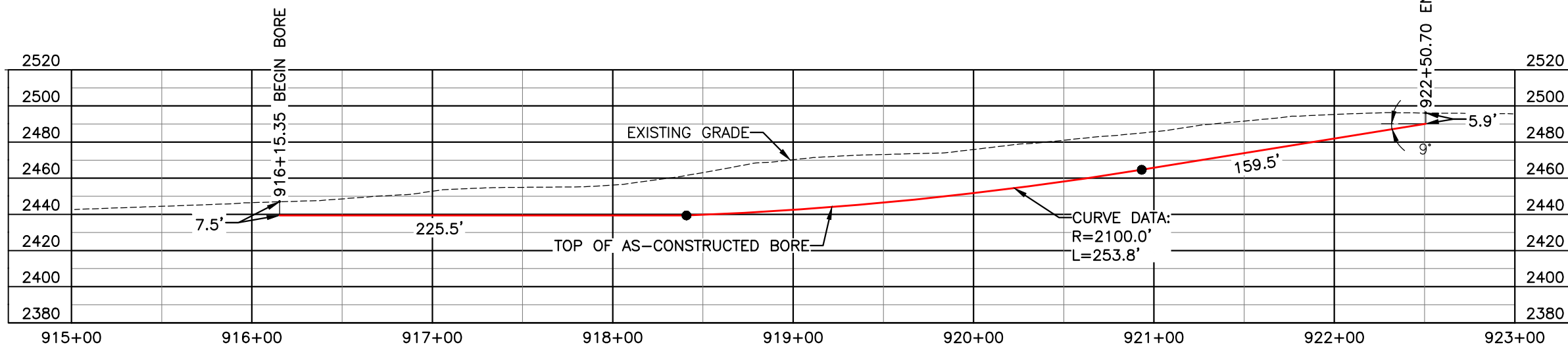
DUNN COUNTY
NW1/4, SEC. 23,
T142N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED



FINAL
6/11/15

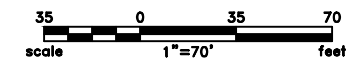
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	916+15.35	47°06'32.31" N	102°48'37.62" W
END BORE	922+50.70	47°06'26.03" N	102°48'37.61" W

TOTAL HORIZONTAL DISTANCE = 635.35 FT.

TOTAL BORE LENGTH = 638.8 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— □ — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— □ — MARKER POST	
— UNDERGROUND COM. LINE	— □ — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	639'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 70'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 70

BOE PIPELINE, LLC

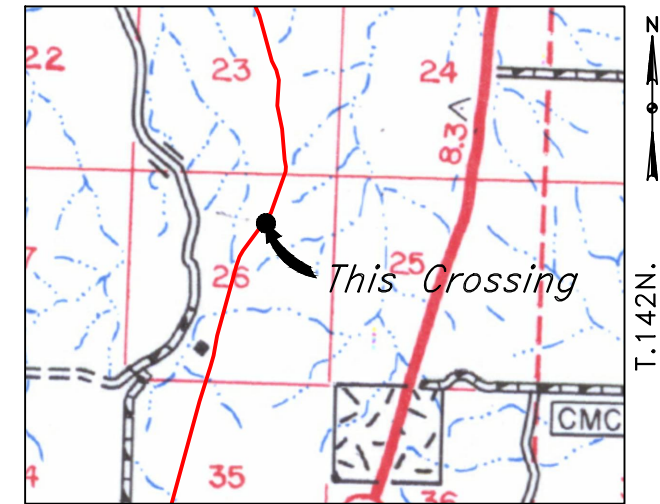
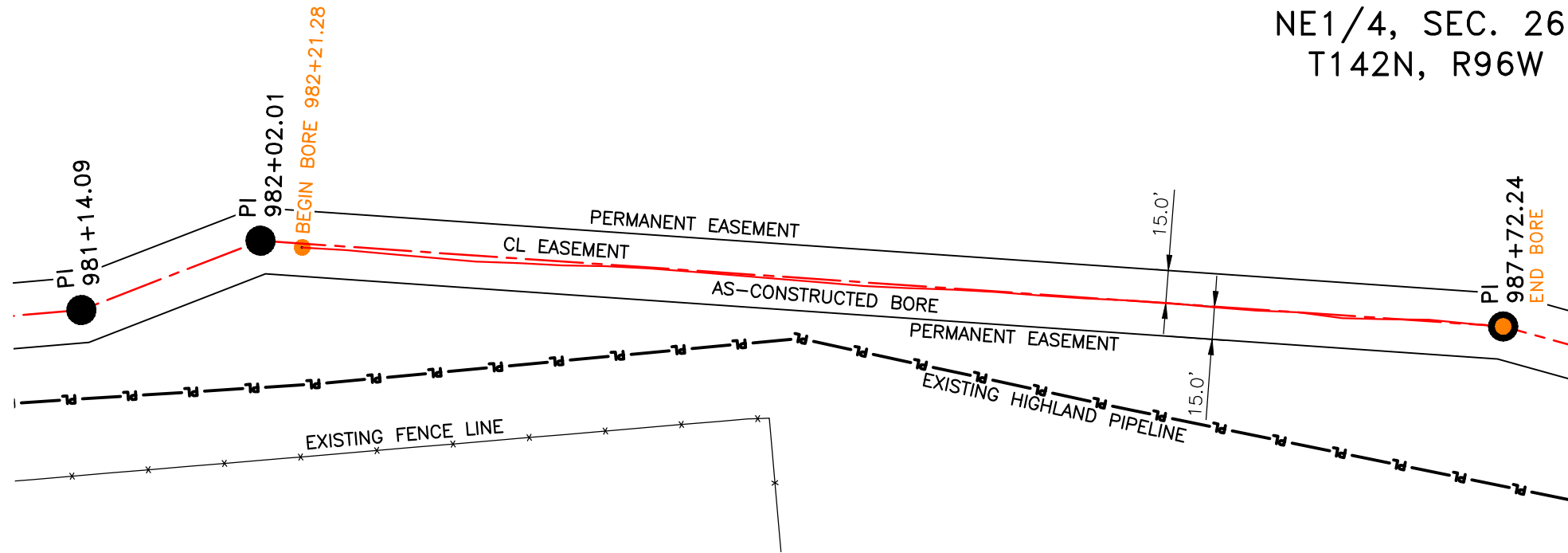
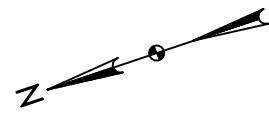
BOE PIPELINE PHASE I
TERRAIN BORE #23
SECTION 23 T.142N., R.96W., DUNN COUNTY, ND

KLJ

4585 Coleman Street
Bismarck, ND 58503
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**BOE PIPELINE PHASE I
TERRAIN BORE #24**
DUNN COUNTY, NORTH DAKOTA

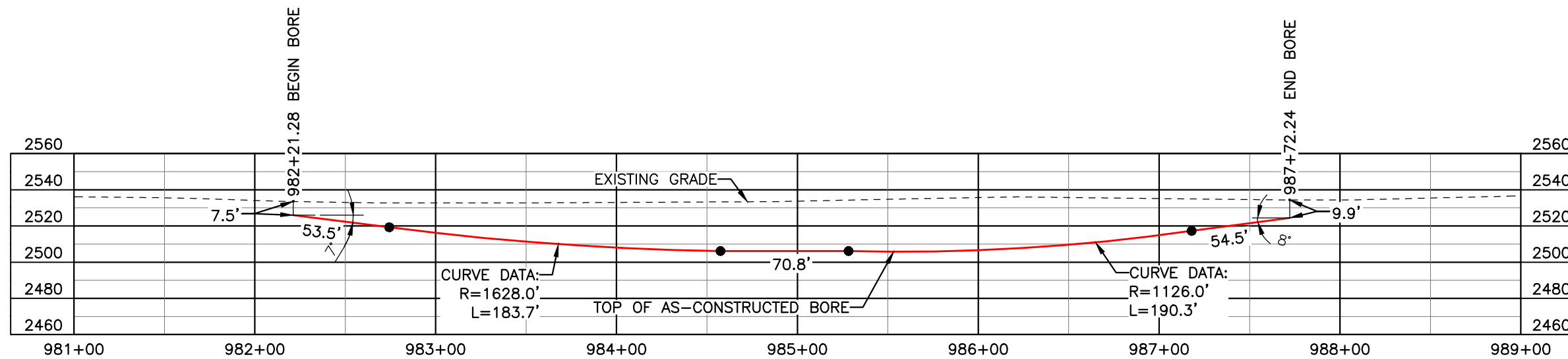
DUNN COUNTY
NE1/4, SEC. 26,
T142N, R96W



R.96W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

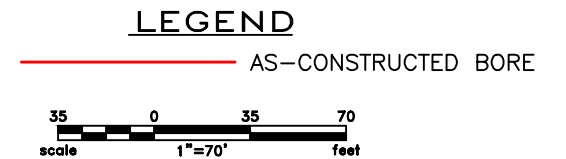


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	982+21.28	47°05'29.53" N	102°48'24.46" W
END BORE	987+72.24	47°05'24.67" N	102°48'28.04" W

TOTAL HORIZONTAL DISTANCE = 550.96 FT.

TOTAL BORE LENGTH = 552.8 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	553'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 70'

DRAWN BY: M. STICKLAND
DATE: 6/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 71

BOE BOE PIPELINE, LLC

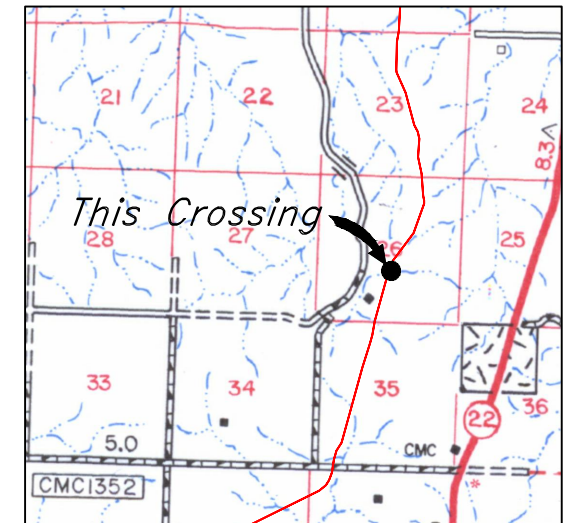
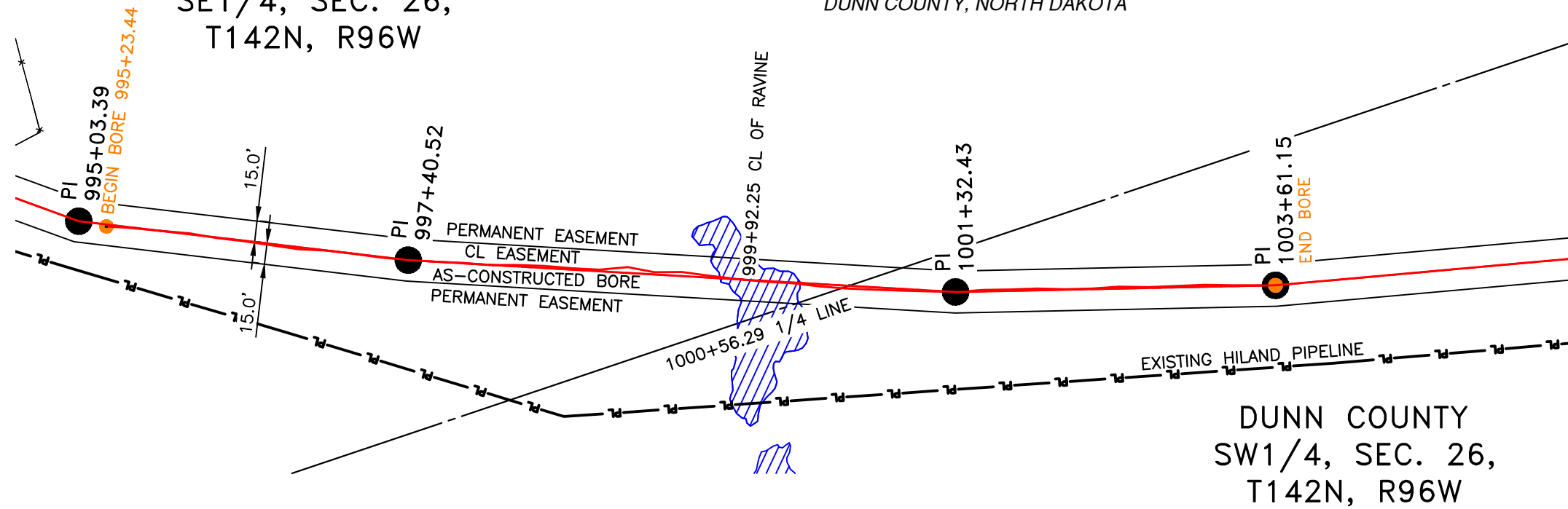
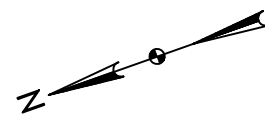
BOE PIPELINE PHASE I
TERRAIN BORE #24
SECTION 26 T.142N., R.96W., DUNN COUNTY, ND

KLJ

4585 Coleman Street
Bismarck, ND 58503
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**BOE PIPELINE PHASE I
RAVINE CROSSING BORE #25**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 26,
T142N, R96W



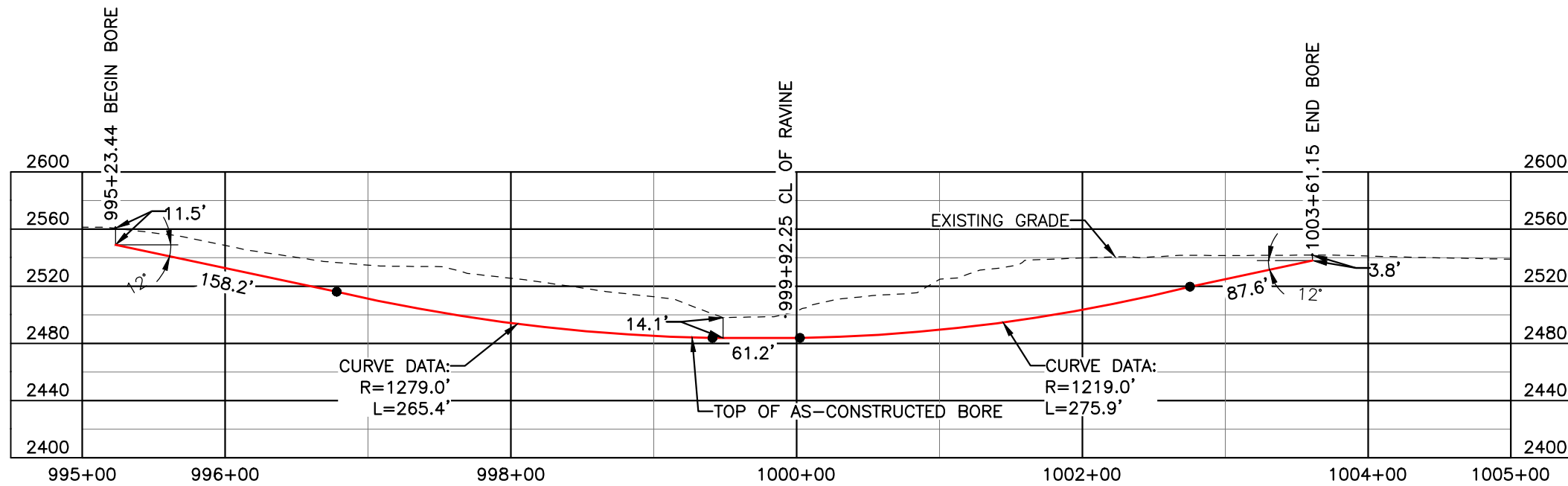
R.96W.

Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

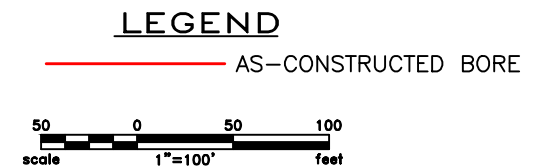
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	995+23.44	47°05'18.84" N	102°48'34.74" W
END BORE	1003+61.15	47°05'11.14" N	102°48'39.11" W

TOTAL HORIZONTAL DISTANCE = 837.71 FT.

TOTAL BORE LENGTH = 848.3 FT.



LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
— SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
— EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	848'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30+35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 100'

DRAWN BY: K. FROST
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 72

BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
RAVINE CROSSING BORE #25**
SECTION 26, T.142N., R.96W., DUNN COUNTY, ND

KLJ

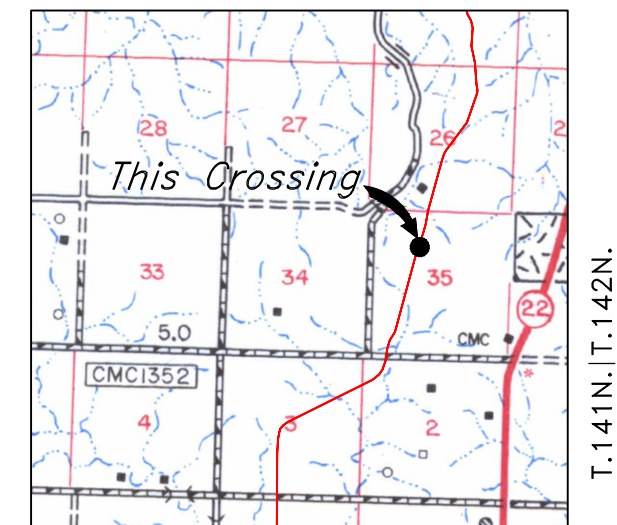
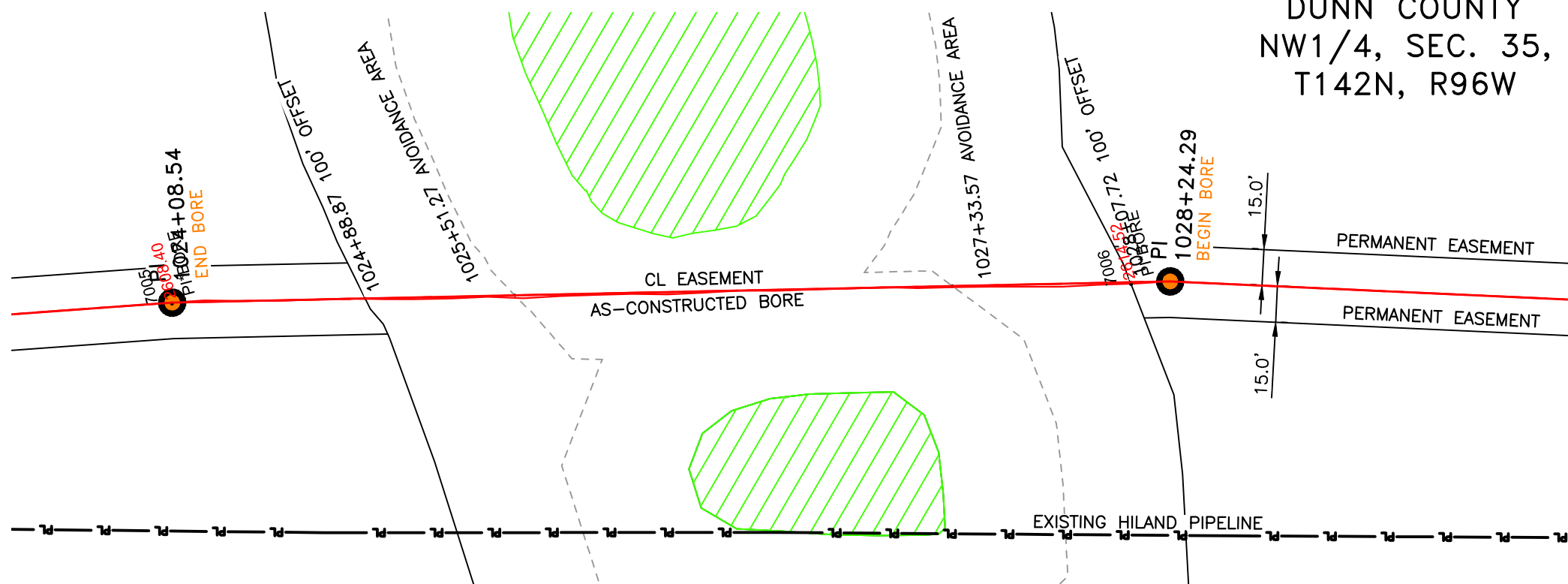
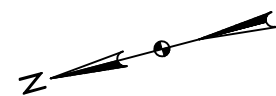
4585 Coleman Street
Bismarck, ND 58503

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BOE PIPELINE PHASE I AVOIDANCE AREA BORE CROSSING #26

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 35,
T142N, R96W

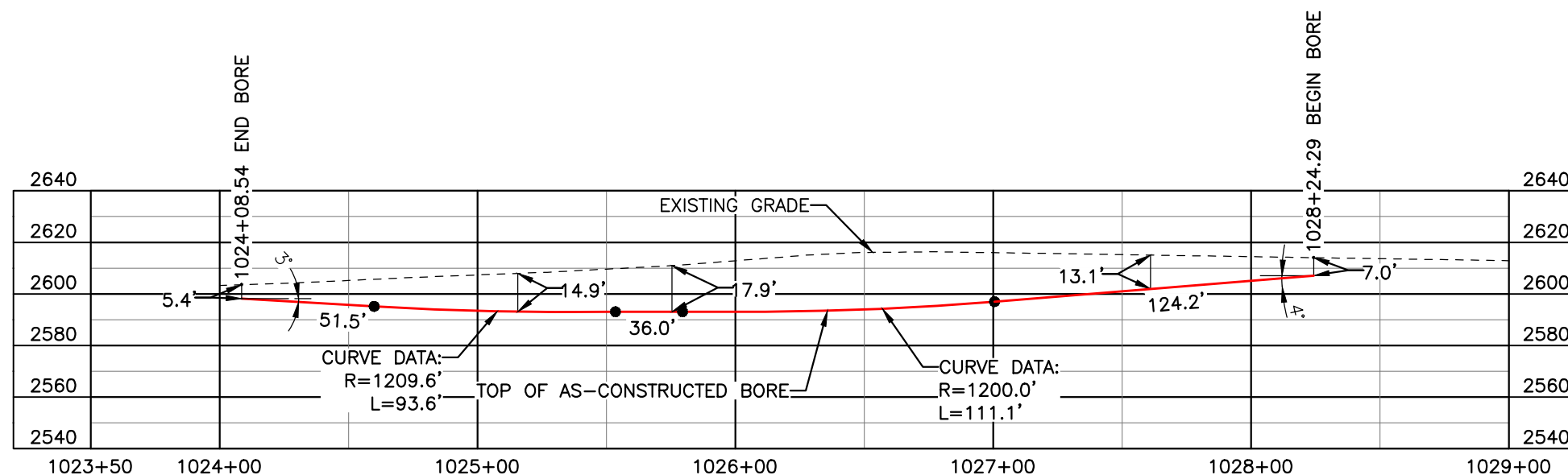


R.96W.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

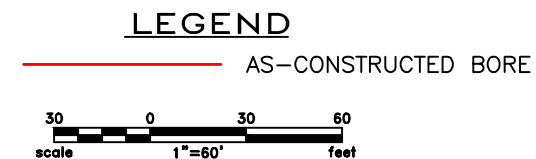


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1028+24.29	47°04'47.39" N	102°48'46.72" W
END BORE	1024+08.54	47°04'51.41" N	102°48'45.48" W

TOTAL HORIZONTAL DISTANCE = 415.75 FT.

TOTAL BORE LENGTH = 416.4 FT.



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	—○— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	—○— AS-CONSTRUCTED BORE	
— EXISTING ROAD	—□— MARKER POST	
— UNDERGROUND COM. LINE	—○— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	416'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

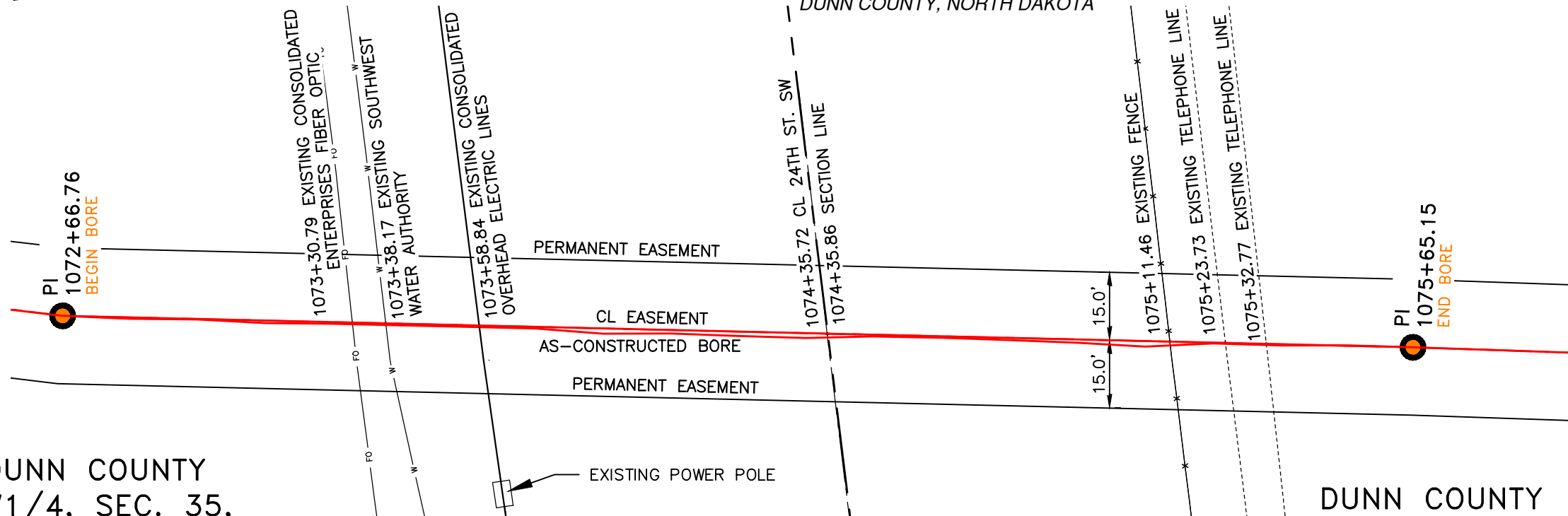
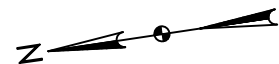
NO.	DATE	DESCRIPTION
0	06/11/15	AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 AVOIDANCE AREA BORE CROSSING
 BORE #26
 SECTION 35, T.142N., R.96W., DUNN COUNTY, ND

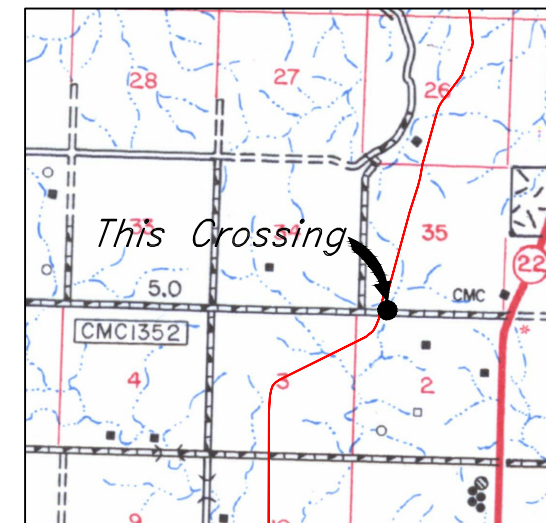
4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I
24TH ST. SW CROSSING BORE #27
 DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
 SW1/4, SEC. 35,
 T142N, R96W

DUNN COUNTY
 NW1/4, SEC. 2,
 T141N, R96W

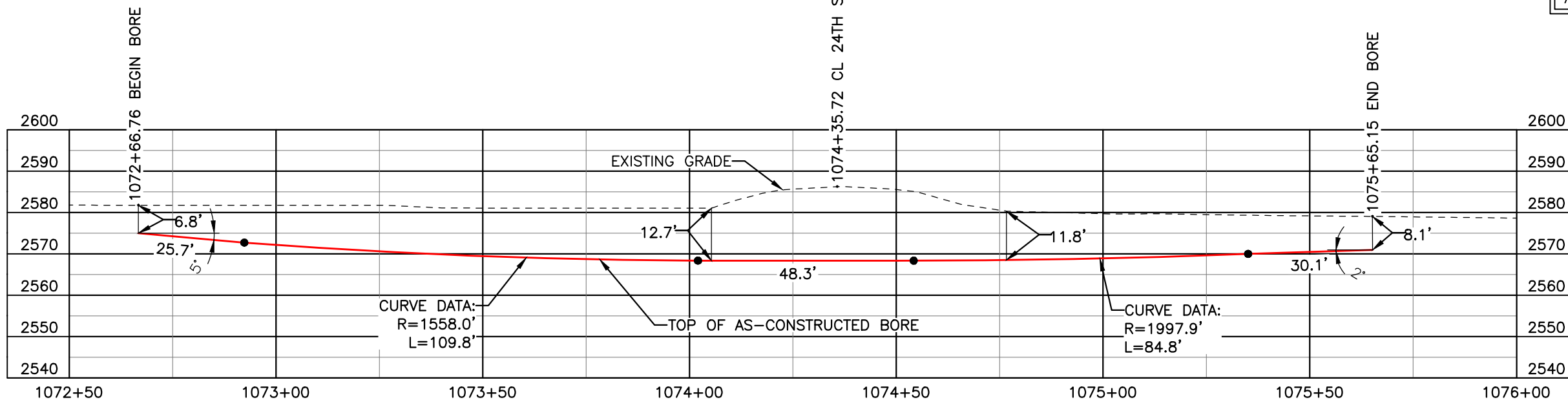


Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



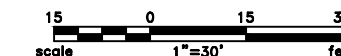
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1072+66.76	47°04'05.25" N	102°49'03.71" W
END BORE	1075+65.15	47°04'02.33" N	102°49'04.33" W

TOTAL HORIZONTAL DISTANCE = 298.39 FT.

TOTAL BORE LENGTH = 298.7 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	— X — EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	— FO — FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— R — RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	— (E) — OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— U — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	299'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'
 DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 74

BOE **BAKKEN OIL EXPRESS**
 BOE PIPELINE, LLC

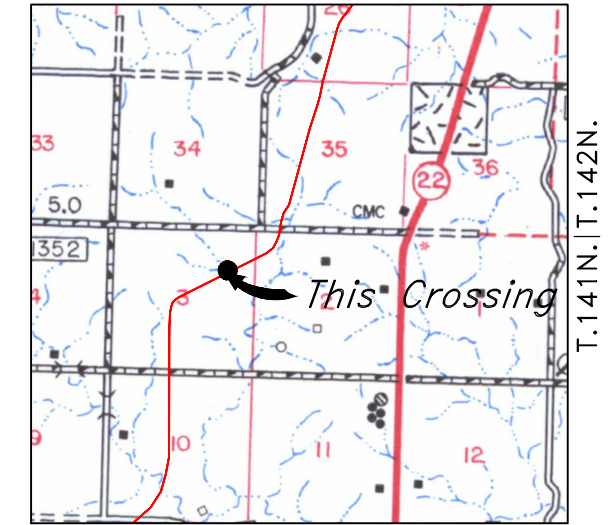
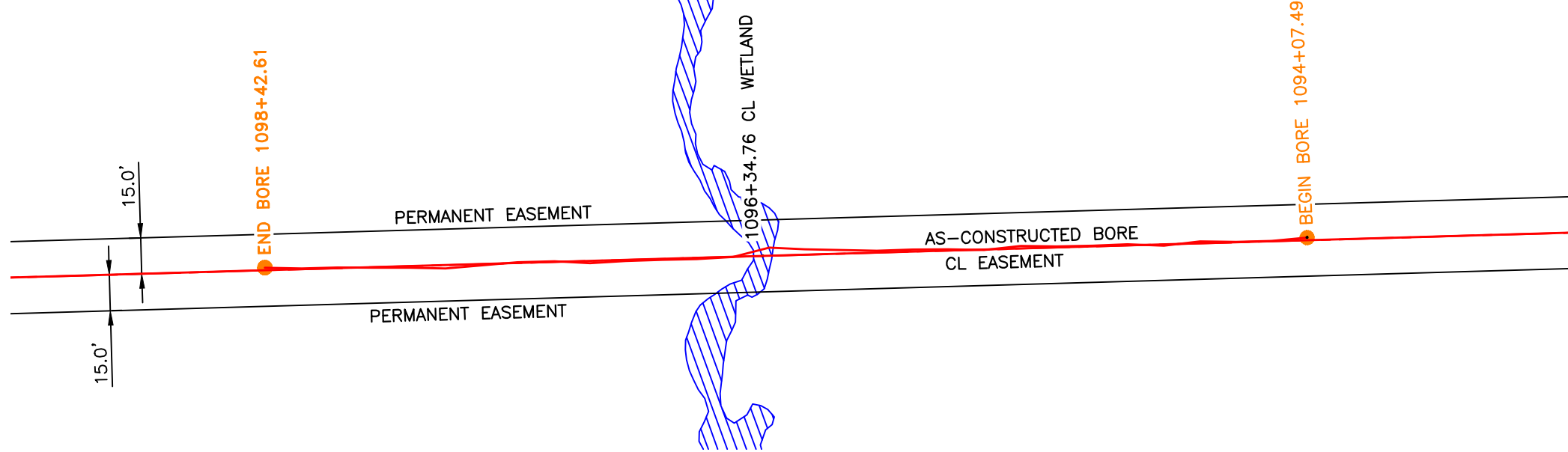
BOE PIPELINE PHASE I
24TH ST. SW CROSSING BORE #27
 SEC. 35, T.142N., R.96W. & SEC. 2, T.141N., R.96W., DUNN COUNTY, ND

KLJ

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 Bismarck, ND 58503
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**BOE PIPELINE PHASE I
WETLAND CROSSING BORE #28**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 3,
T141N, R96W



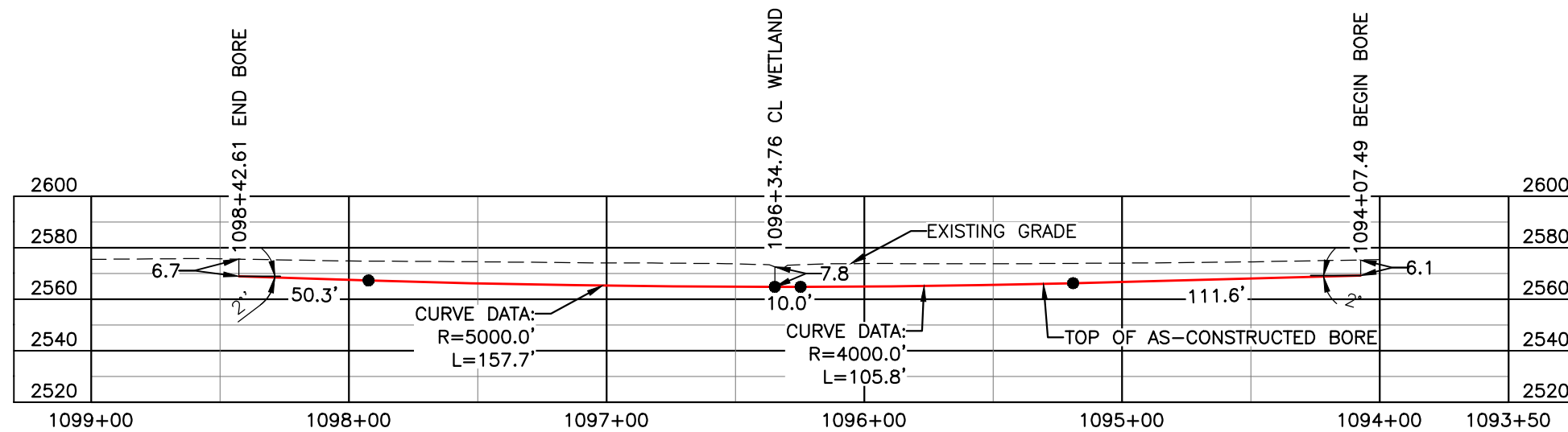
R.96W.

Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

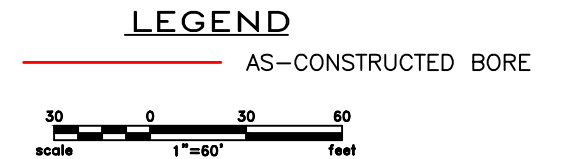
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1094+07.49	47°03'49.88" N	102°49'21.40" W
END BORE	1098+42.61	47°03'47.84" N	102°49'26.94" W

TOTAL HORIZONTAL DISTANCE = 435.12 FT.

TOTAL BORE LENGTH = 435.4 FT.



LEGEND

—	PROPERTY LINE	—x—	EXISTING FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE	▨	WETLAND EASEMENT
- - -	EASEMENT LINE	—	RAILROAD	—	TEST LEAD
—	PIPELINE CENTERLINE	—(O)—	OVERHEAD ELECTRIC	—	
—	WATER LINE	—	UTILITY POLE	—	
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	
—	EXISTING ROAD	—	MARKER POST	—	
—	UNDERGROUND COM. LINE	—	VALVE SETTING	—	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	435'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 60'

DRAWN BY: M. STICKLAND
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 75

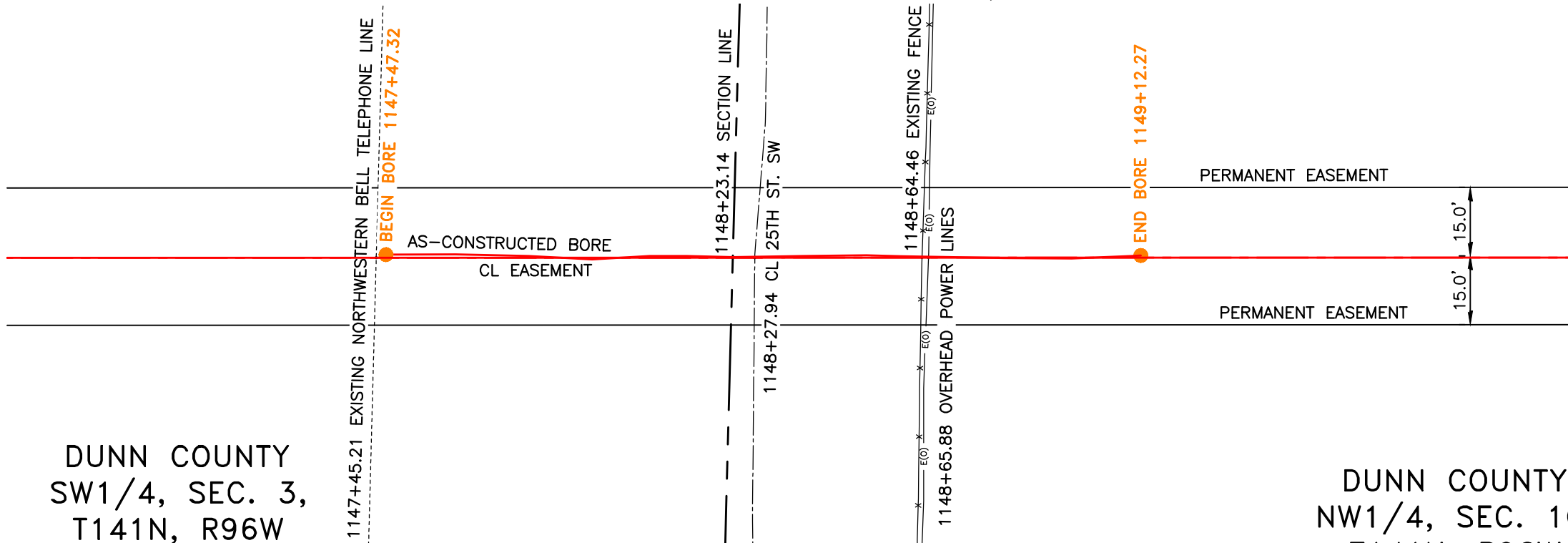
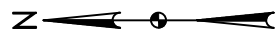
BOE BOE PIPELINE, LLC

BOE PIPELINE PHASE I
WETLAND BORE CROSSING
BORE #28
SECTION 3, T.141N., R.96W., DUNN COUNTY, ND

KLJ

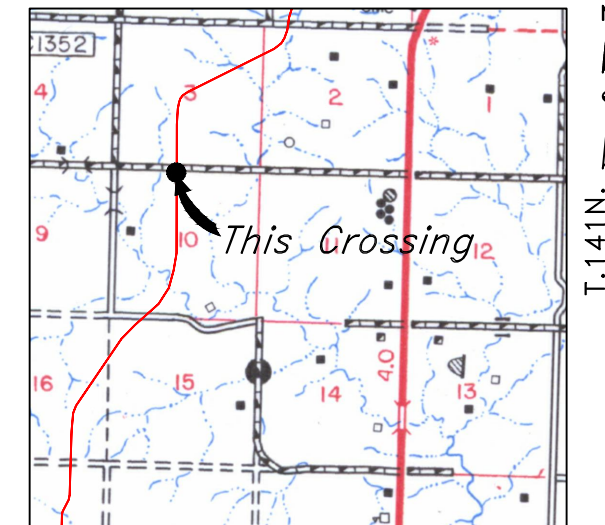
4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I
25TH ST. SW CROSSING BORE #29
 DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
 SW1/4, SEC. 3,
 T141N, R96W

DUNN COUNTY
 NW1/4, SEC. 10,
 T141N, R96W



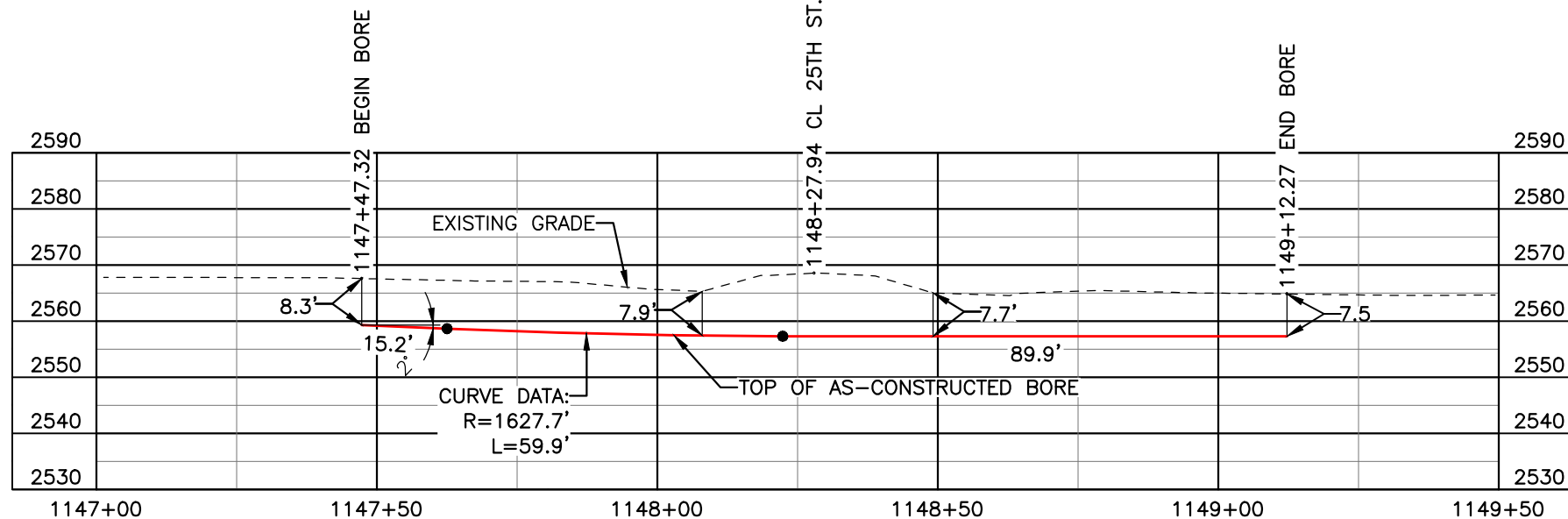
R.96W.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
 6/11/15



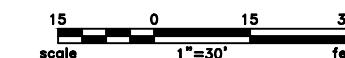
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1147+47.32	47°03'12.14" N	102°49'59.48" W
END BORE	1149+12.27	47°03'10.51" N	102°49'59.41" W

TOTAL HORIZONTAL DISTANCE = 164.95 FT.

TOTAL BORE LENGTH = 165.0 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- - -	EASEMENT LINE
—	PIPELINE CENTERLINE
—	WATER LINE
—	FOREIGN PIPELINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
— x —	EXISTING FENCE
— FO —	FIBER OPTIC COM. LINE
—	RAILROAD
—	OVERHEAD ELECTRIC
—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	VALVE SETTING
—	AVOIDANCE AREA
—	WETLAND
—	EASEMENT
—	TEST LEAD

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
2	165'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO. DATE
		0 06/11/15

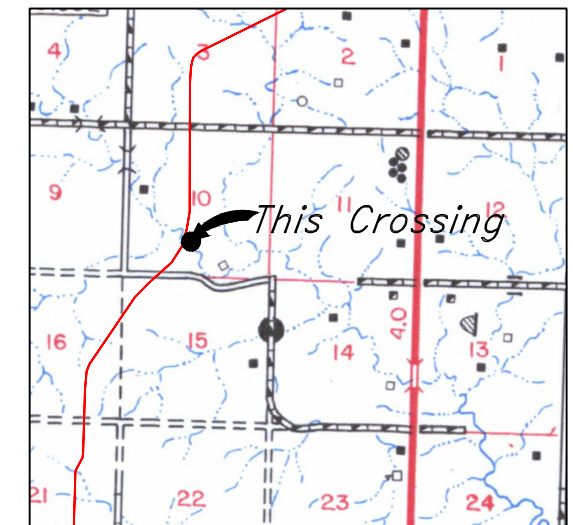
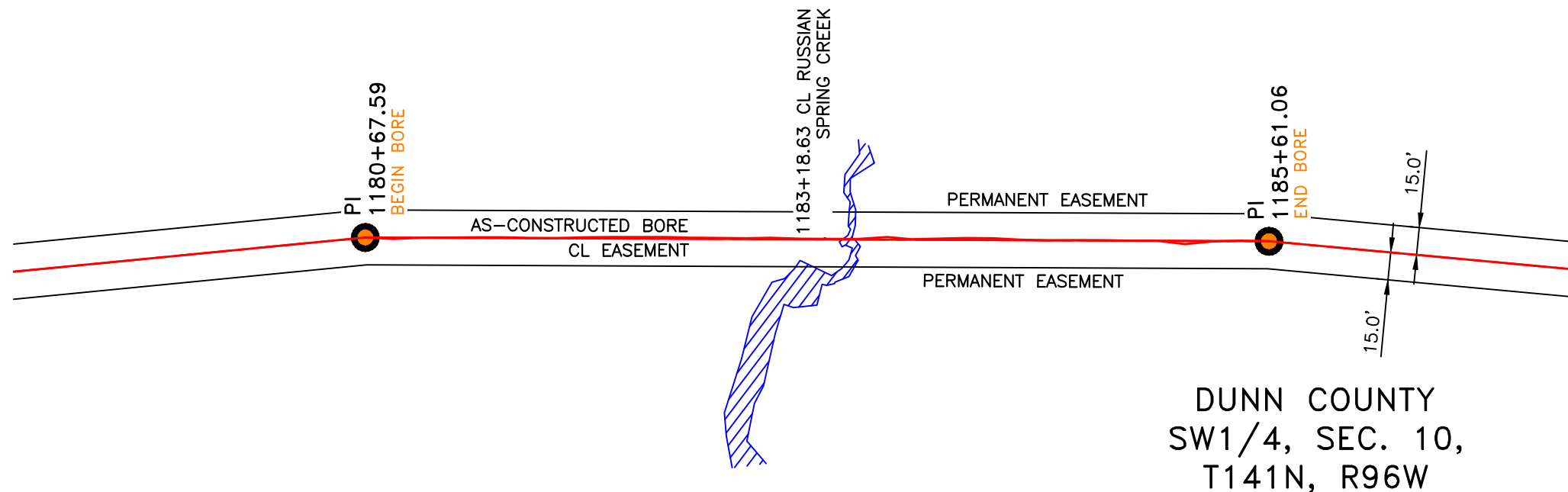
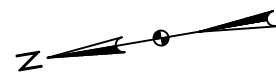
REVISIONS	
NO.	DESCRIPTION
0	AS-CONSTRUCTED

SCALE: 1" = 30'
 DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 76

BOE BOE PIPELINE, LLC
 BOE PIPELINE PHASE I
 25TH ST. SW CROSSING BORE #29
 SECTIONS 3 & 10, T.141N., R.96W., DUNN COUNTY, ND

KLJ
 4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I
RUSSIAN SPRING CREEK CROSSING BORE #30
 DUNN COUNTY, NORTH DAKOTA



R.96W.

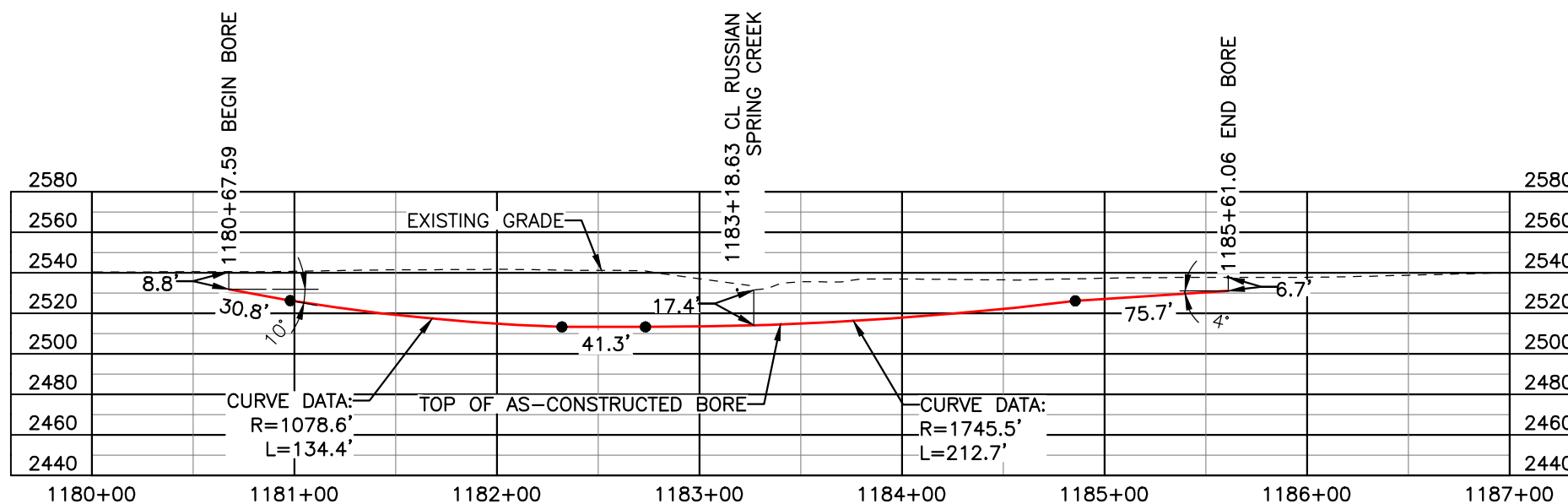
Location Map

DUNN COUNTY
SW1/4, SEC. 10,
T141N, R96W

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



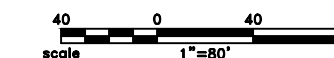
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1180+67.59	47°02'39.38" N	102°49'58.33" W
END BORE	1185+61.06	47°02'34.56" N	102°49'59.37" W

TOTAL HORIZONTAL DISTANCE = 493.47 FT.

TOTAL BORE LENGTH = 494.9 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- - -	EASEMENT LINE
—	PIPELINE CENTERLINE
—	WATER LINE
—	FOREIGN PIPELINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
—x—x—	EXISTING FENCE
—FO—	FIBER OPTIC COM. LINE
—	RAILROAD
—(O)—	OVERHEAD ELECTRIC
—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	VALVE SETTING
—	AVOIDANCE AREA
—	WETLAND
—	EASEMENT
—	TEST LEAD

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
2	495'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO. DATE
		0 06/11/15

REVISIONS	
NO.	DESCRIPTION
AS-CONSTRUCTED	

SCALE: 1" = 80'
 DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 77

BOE **BAKKEN OIL EXPRESS**
 BOE PIPELINE, LLC

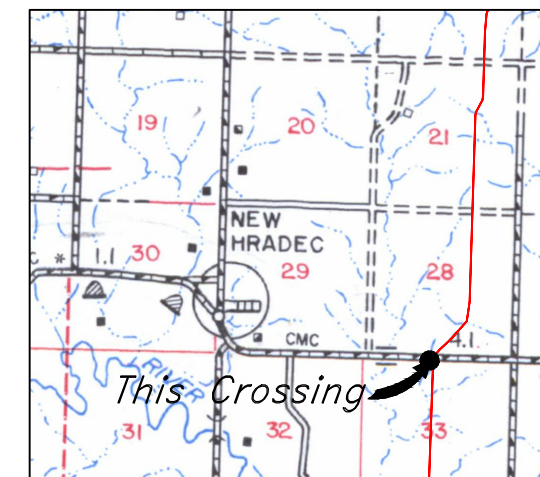
BOE PIPELINE PHASE I
RUSSIAN SPRING CREEK CROSSING BORE
BORE #30
 SECTION 10, T.141N., R.96W., DUNN COUNTY, ND

KLJ

4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I
29TH ST. SW CROSSING BORE #31
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 NE1/4, SEC. 33,
 T141N, R96W



R.96W.

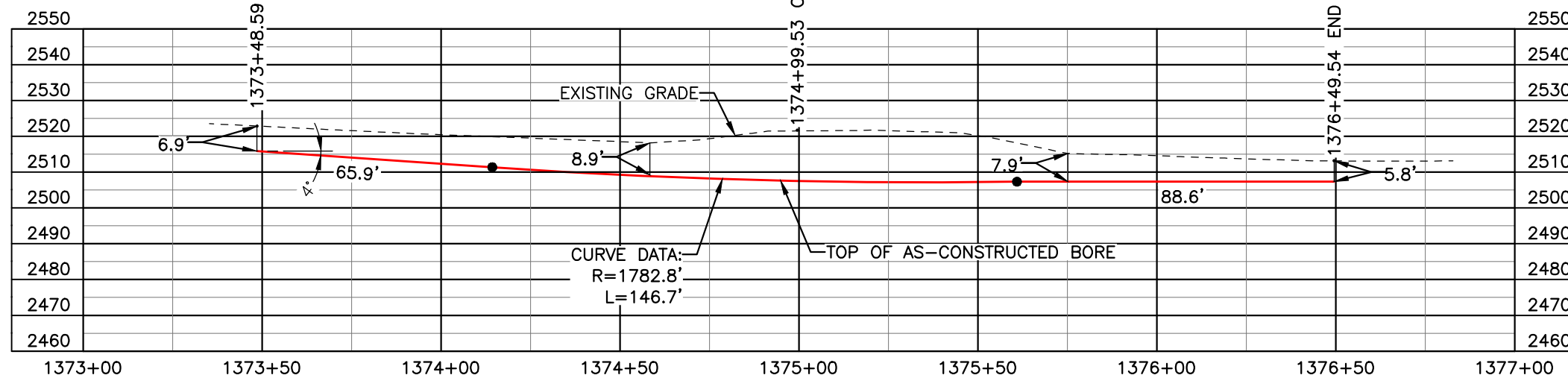
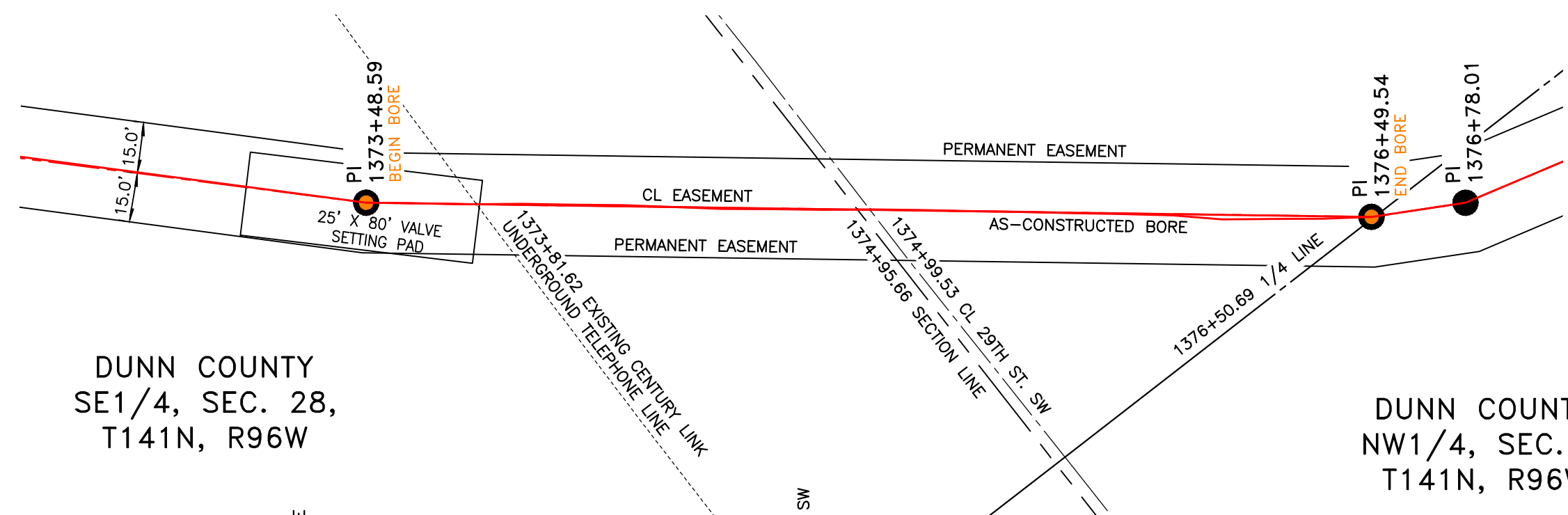
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

DUNN COUNTY
 SE1/4, SEC. 28,
 T141N, R96W

DUNN COUNTY
 NW1/4, SEC. 33,
 T141N, R96W

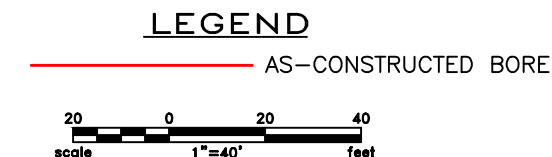


FINAL
 6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1373+48.59	46°59'44.08" N	102°51'07.17" W
END BORE	1376+49.54	46°59'41.76" N	102°51'09.88" W

TOTAL HORIZONTAL DISTANCE = 300.95 FT.

TOTAL BORE LENGTH = 301.2 FT.



LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
--- EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— UTILITY POLE
— WATER LINE	— UTILITY POLE	— AS-CONSTRUCTED BORE
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	— MARKER POST
— EXISTING ROAD	— MARKER POST	— VALVE SETTING
--- UNDERGROUND COM. LINE	— VALVE SETTING	— TEST LEAD

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	301'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

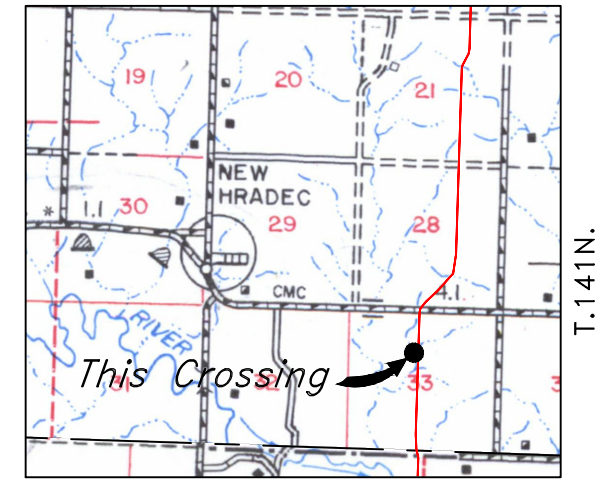
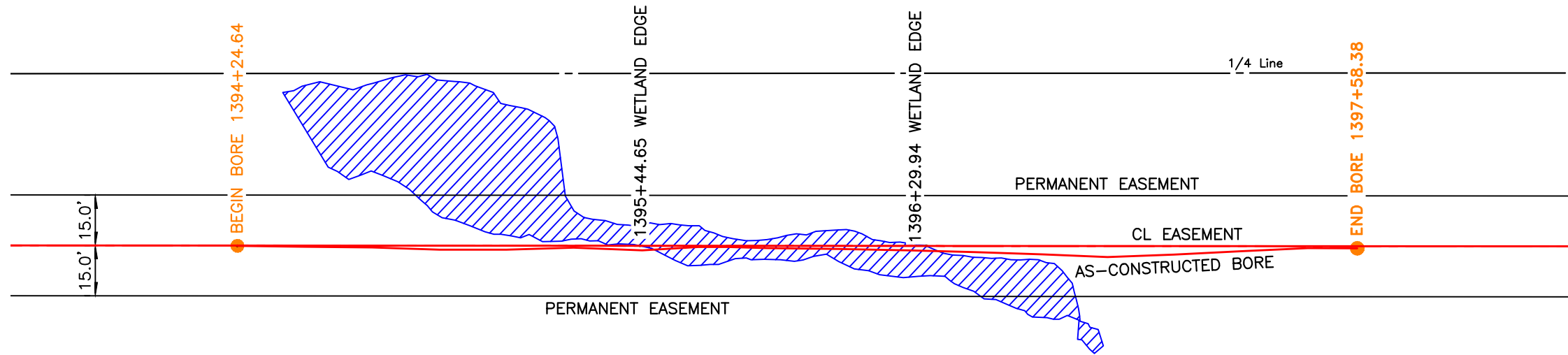
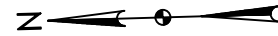
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
29TH ST. SW CROSSING BORE
BORE #31
 SECTIONS 28 & 33, T.141N., R.96W., DUNN COUNTY, ND

4585 Coleman Street
 Bismarck, ND 58503
© KLJ 2015

BOE PIPELINE PHASE I WETLAND CROSSING BORE #32

DUNN COUNTY, NORTH DAKOTA



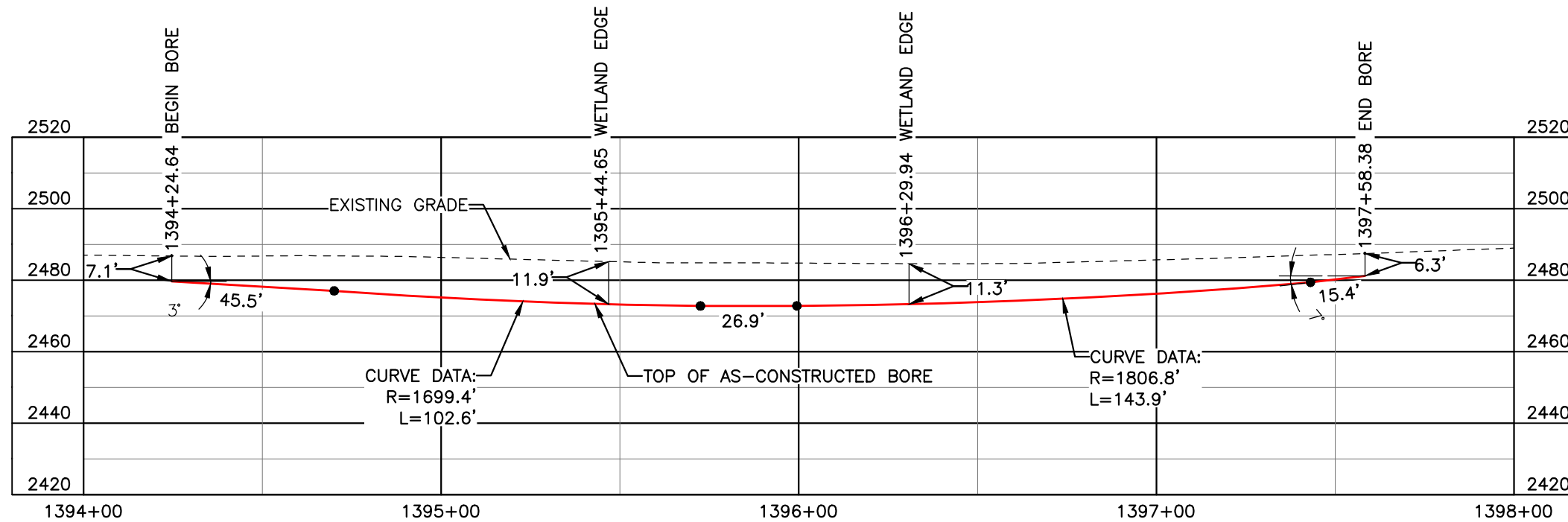
Location Map

DUNN COUNTY
NW1/4, SEC. 33,
T141N, R96W

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



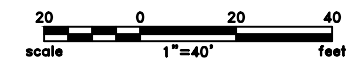
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1394+24.64	46°59'24.32" N	102°51'10.61" W
END BORE	1397+58.38	46°59'21.02" N	102°51'10.62" W

TOTAL HORIZONTAL DISTANCE = 333.74 FT.

TOTAL BORE LENGTH = 334.3 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND EASEMENT
- - - EASEMENT LINE	—R— RAILROAD	—○— OVERHEAD ELECTRIC
— PIPELINE CENTERLINE	—(O)— UTILITY POLE	—○— AS-CONSTRUCTED BORE
— WATER LINE	—(X)— MARKER POST	—○— VALVE SETTING
— FOREIGN PIPELINE	—(V)—	
— EXISTING ROAD		
--- UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	334'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
0	06/11/15	AS-CONSTRUCTED

BOE PIPELINE, LLC

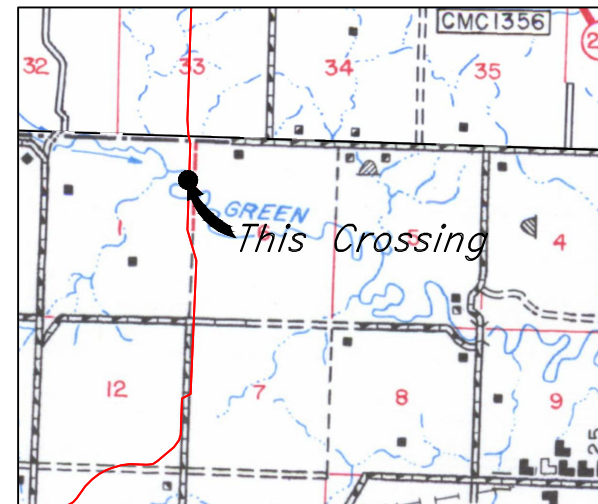
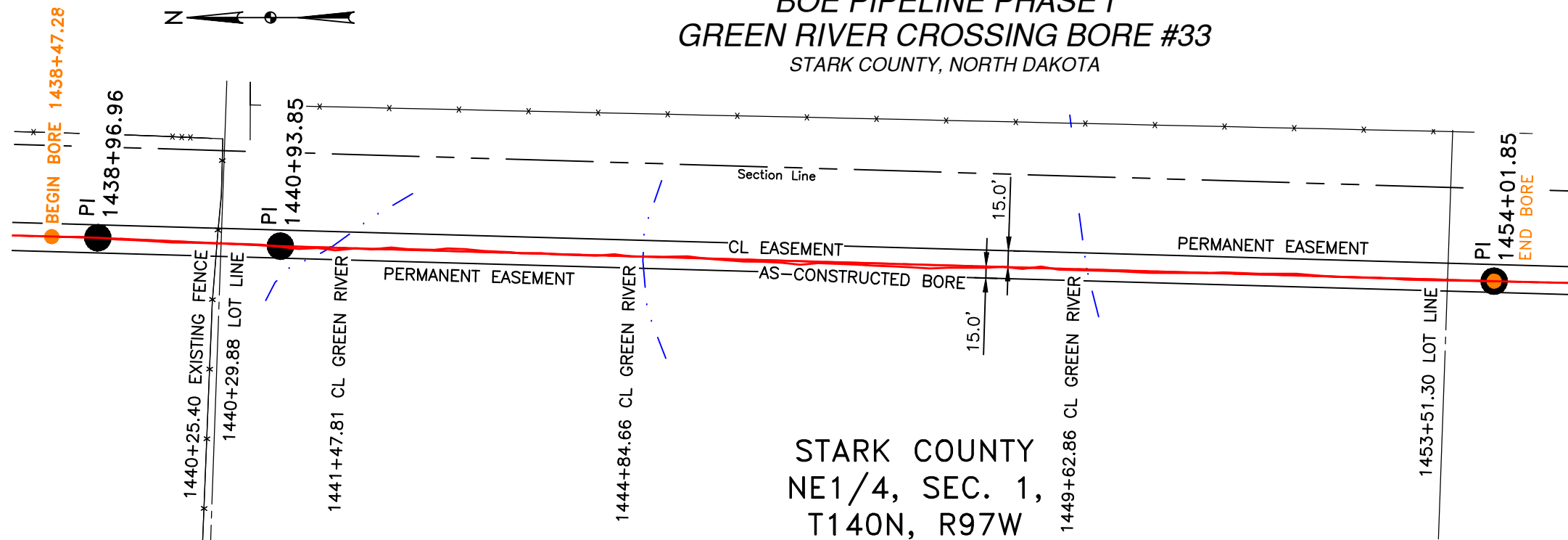
**BOE PIPELINE PHASE I
WETLAND CROSSING BORE
BORE #32**

SECTION 33, T.141N., R.96W., DUNN COUNTY, ND

4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I GREEN RIVER CROSSING BORE #33

STARK COUNTY, NORTH DAKOTA



R.97W. | R.96W.

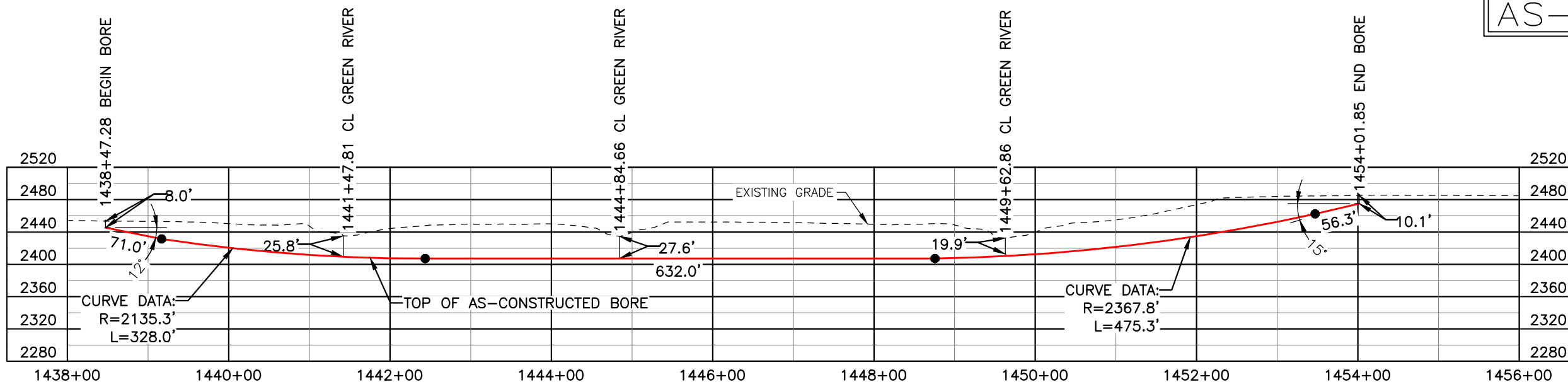
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

STARK COUNTY
NE1/4, SEC. 1,
T140N, R97W

AS-CONSTRUCTED

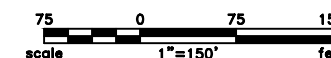
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1438+47.28	46°58'40.77" N	102°51'08.84" W
END BORE	1454+01.85	46°58'25.42" N	102°51'08.86" W

TOTAL HORIZONTAL DISTANCE = 1554.57 FT.

TOTAL BORE LENGTH = 1562.6 FT.



LEGEND

— AS-CONSTRUCTED BORE

LEGEND	
— PROPERTY LINE	— EXISTING FENCE
--- SECTION LINE	— FIBER OPTIC COM. LINE
- - - EASEMENT LINE	— RAILROAD
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC
— WATER LINE	— UTILITY POLE
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE
— EXISTING ROAD	— MARKER POST
— UNDERGROUND COM. LINE	— VALVE SETTING
— AVOIDANCE AREA	— WETLAND
— TEST LEAD	

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
2	1563'	16.0" O.D. X 0.344" W.T., API 5L X70, 14-16 MILS FBE

REFERENCE DRAWINGS		
DWG. NO.	DESCRIPTION	NO. DATE
		0 06/11/15

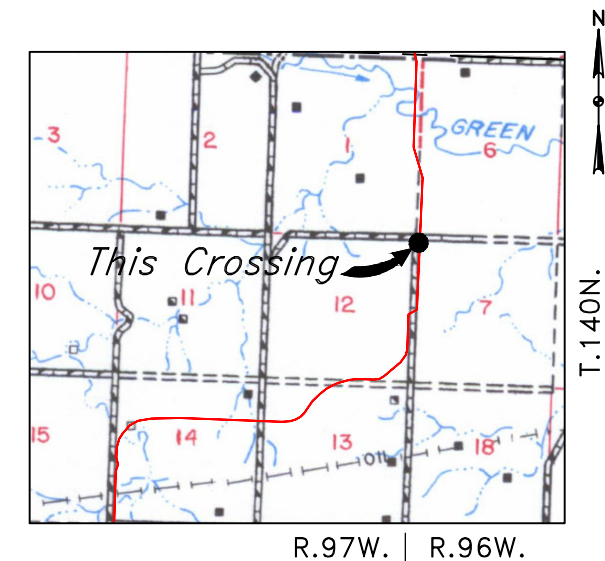
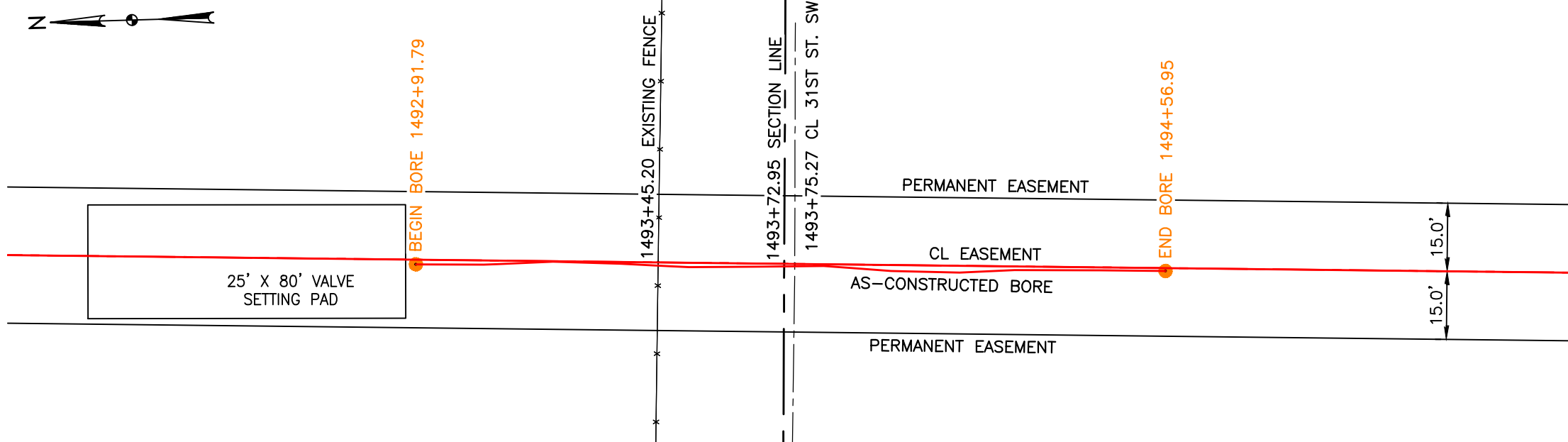
REVISIONS	
NO.	DESCRIPTION
0	AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
GREEN RIVER CROSSING BORE #33
SECTION 1, T.140N., R.97W., STARK COUNTY, ND

4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I 31ST ST. SW CROSSING BORE #34 STARK COUNTY, NORTH DAKOTA



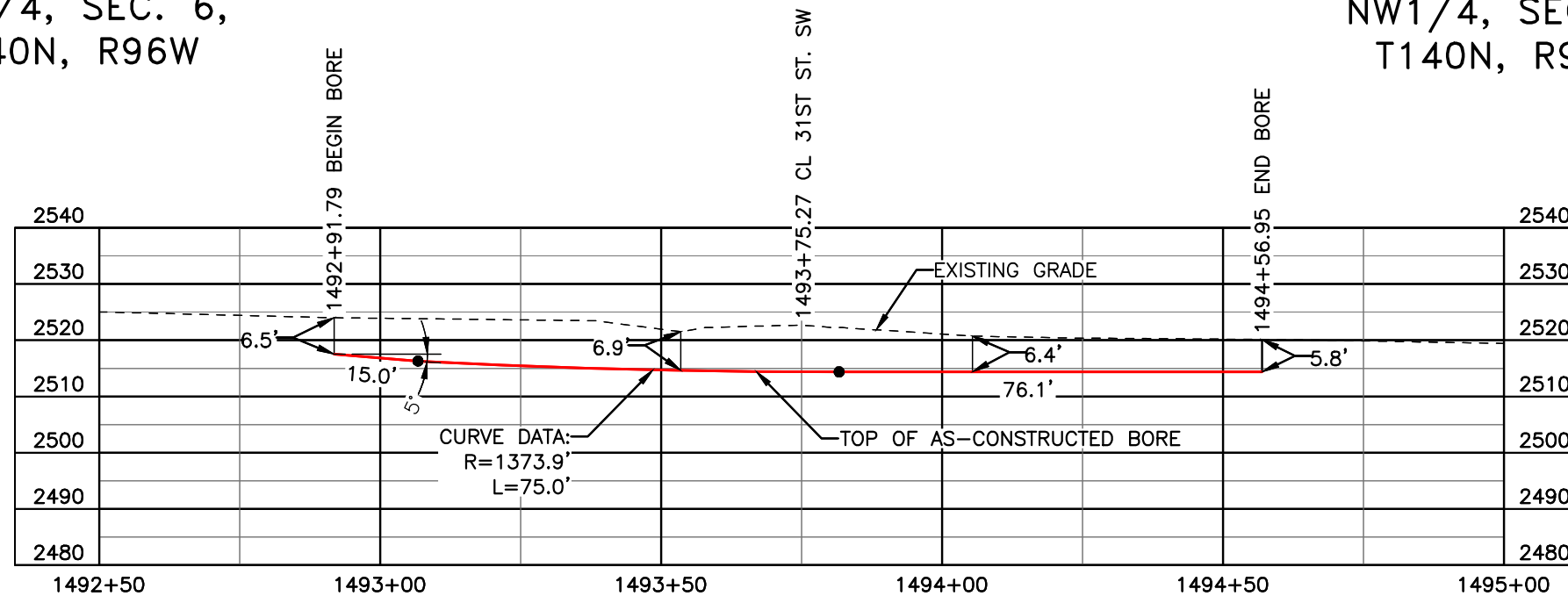
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

STARK COUNTY
SW1/4, SEC. 6,
T140N, R96W

STARK COUNTY
NW1/4, SEC. 7,
T140N, R96W

AS-CONSTRUCTED

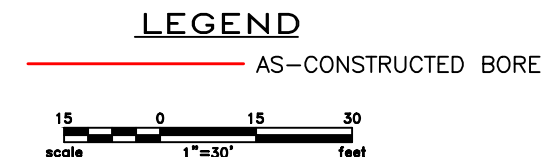


FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1492+91.79	46°57'47.56" N	102°51'04.13" W
END BORE	1494+56.95	46°57'45.93" N	102°51'04.15" W

TOTAL HORIZONTAL DISTANCE = 165.16 FT.

TOTAL BORE LENGTH = 166.1 FT.



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— □ — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— □ — MARKER POST	
--- UNDERGROUND COM. LINE	— □ — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	166'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
0	06/11/15	AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
31ST ST. SW CROSSING BORE
BORE #34
SECTIONS 6 & 7, T.140N., R.96W., STARK COUNTY, ND

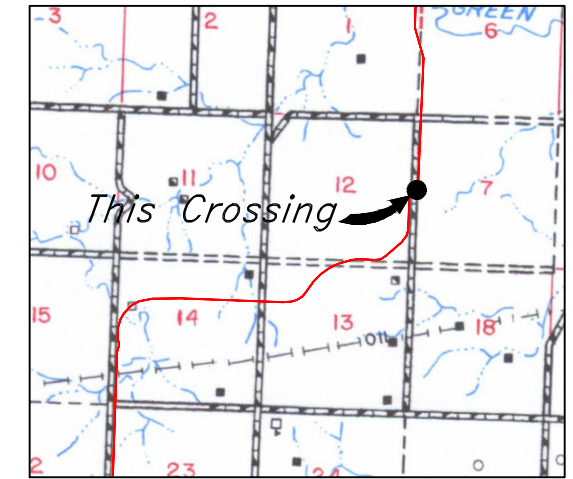
4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I
114TH AVE. SW & PROPERTY CROSSING BORE #35
 STARK COUNTY, NORTH DAKOTA

STARK COUNTY
 SW1/4, SEC. 7,
 T140N, R96W

STARK COUNTY
 NW1/4, SEC. 7,
 T140N, R96W

STARK COUNTY
 SE1/4, SEC. 12,
 T140N, R97W



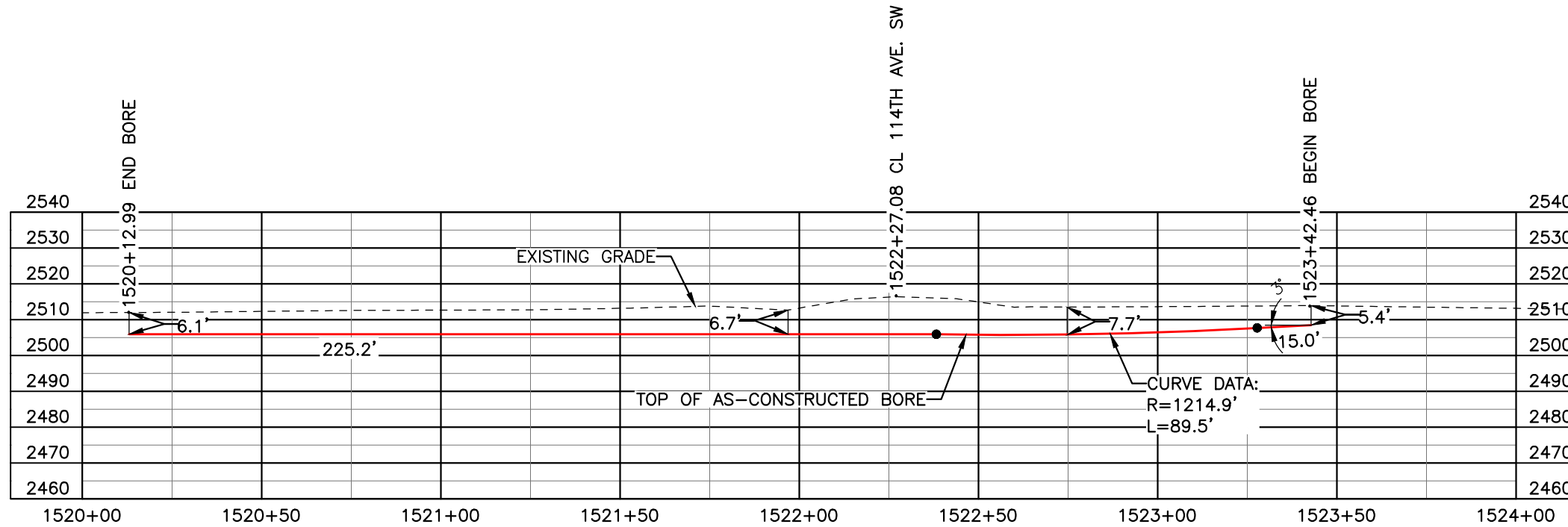
R.97W. | R.96W.
 T.140N.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

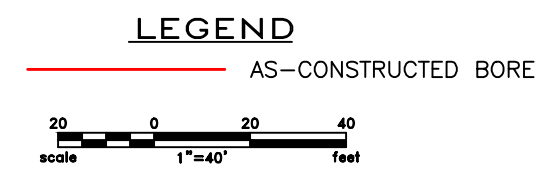
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1523+42.46	46°57'19.12" N	102°51'08.83" W
END BORE	1520+12.99	46°57'20.77" N	102°51'04.73" W

TOTAL HORIZONTAL DISTANCE = 329.47 FT.

TOTAL BORE LENGTH = 329.7 FT.



LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND EASEMENT
- - - EASEMENT LINE	— RAILROAD	— TEST LEAD
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	330'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
114TH AVE. SW CROSSING BORE #35
 SEC. 7, T.140N., R.96W. & SEC. 12, T.140N., R.97W., STARK COUNTY, ND

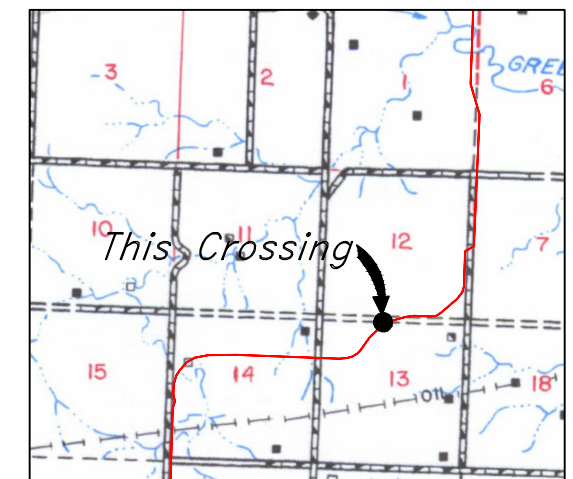
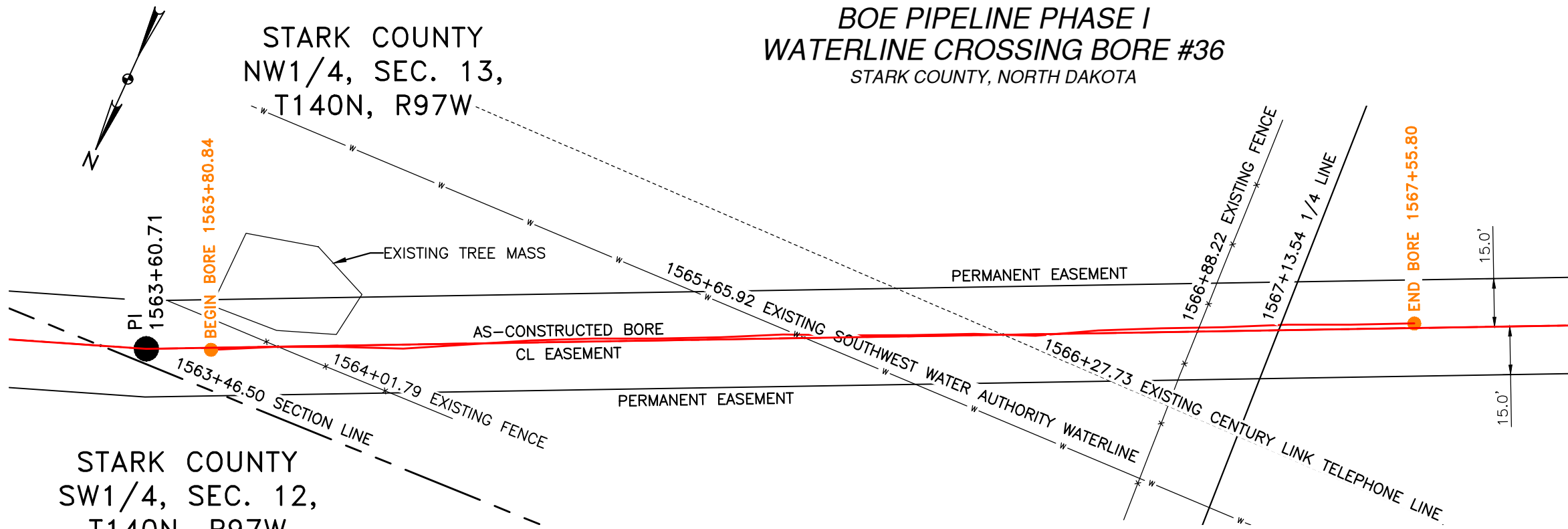
4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I WATERLINE CROSSING BORE #36

STARK COUNTY, NORTH DAKOTA

STARK COUNTY
NW1/4, SEC. 13,
T140N, R97W

STARK COUNTY
SW1/4, SEC. 12,
T140N, R97W



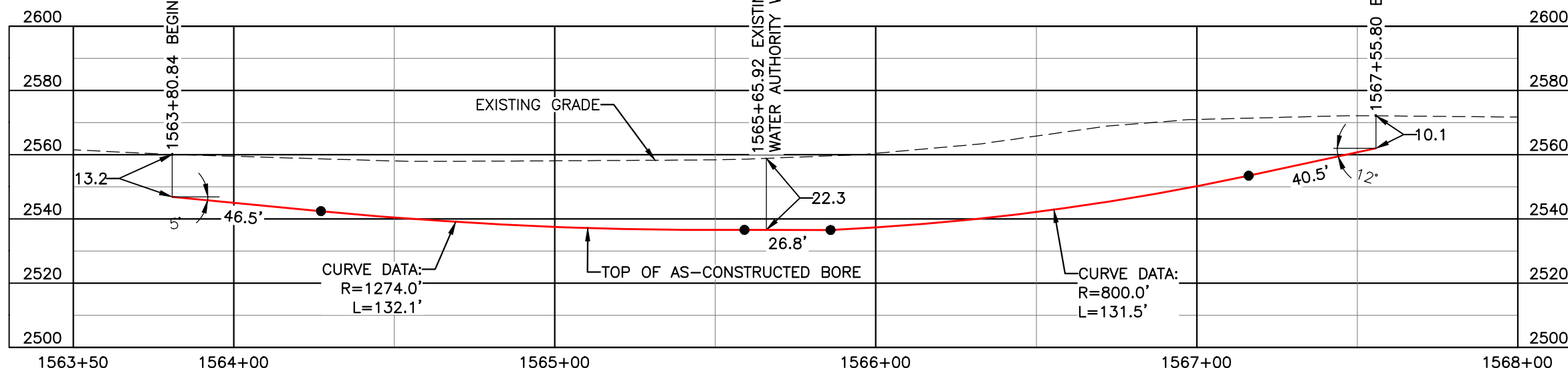
R.97W. | R.96W.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1563+80.84	46°56'54.64" N	102°51'41.12" W
END BORE	1567+55.80	46°56'53.19" N	102°51'46.10" W

TOTAL HORIZONTAL DISTANCE = 374.96 FT.
 TOTAL BORE LENGTH = 377.4 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND				MATERIAL SUMMARY		REFERENCE DRAWINGS			REVISIONS		DRAWING INFORMATION	
—	PROPERTY LINE	—	EXISTING FENCE	▨	AVOIDANCE AREA	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE	SCALE: 1" = 40'
---	SECTION LINE	FO	FIBER OPTIC COM. LINE	▨	WETLAND	2	377'			0	06/11/15	DRAWN BY: M. STICKLAND
---	EASEMENT LINE	—	RAILROAD	▨	EASEMENT							DATE: 06/11/15
---	PIPELINE CENTERLINE	EO	OVERHEAD ELECTRIC	—	TEST LEAD							CHECKED BY: D. DIONNE
---	WATER LINE	—	UTILITY POLE									APPROVED BY: S. BESMER
---	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE									KLJ JOB NUMBER: 1713140
---	EXISTING ROAD	—	MARKER POST									REVISION:
---	UNDERGROUND COM. LINE	—	VALVE SETTING									SHEET: 83

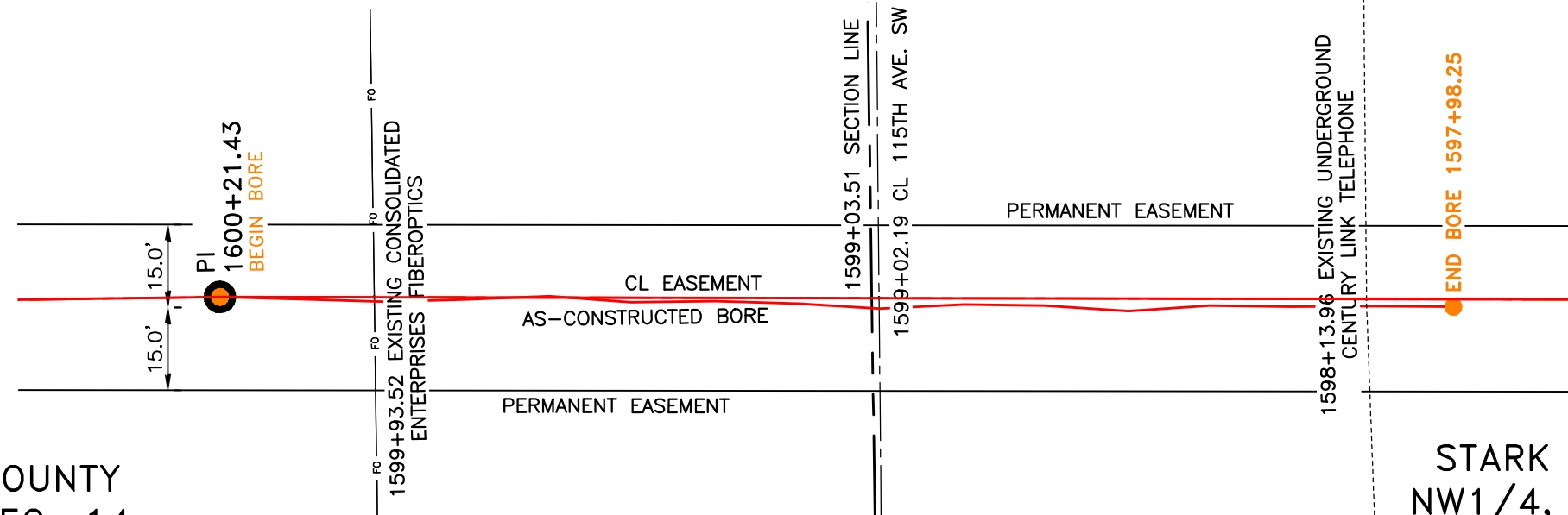
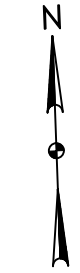
BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 WATERLINE CROSSING BORE #36
 SECTIONS 12 & 13, T.140N., R.97W., STARK COUNTY, ND

KLJ

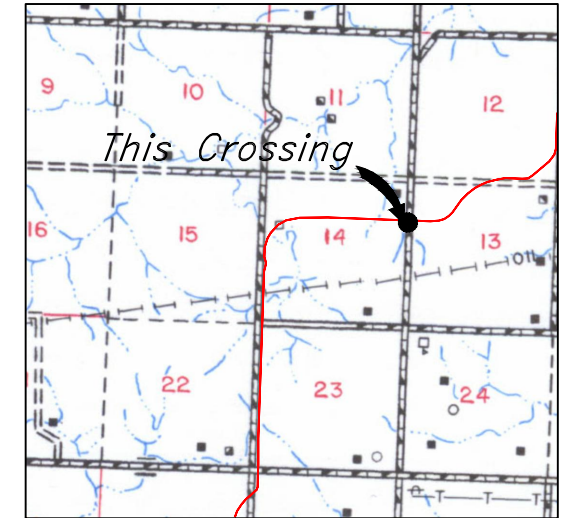
4585 Coleman Street
 Bismarck, ND 58503

BOE PIPELINE PHASE I
115TH AVE. SW CROSSING BORE #37
 STARK COUNTY, NORTH DAKOTA



STARK COUNTY
 NE1/4, SEC. 14,
 T140N, R97W

STARK COUNTY
 NW1/4, SEC. 13,
 T140N, R97W

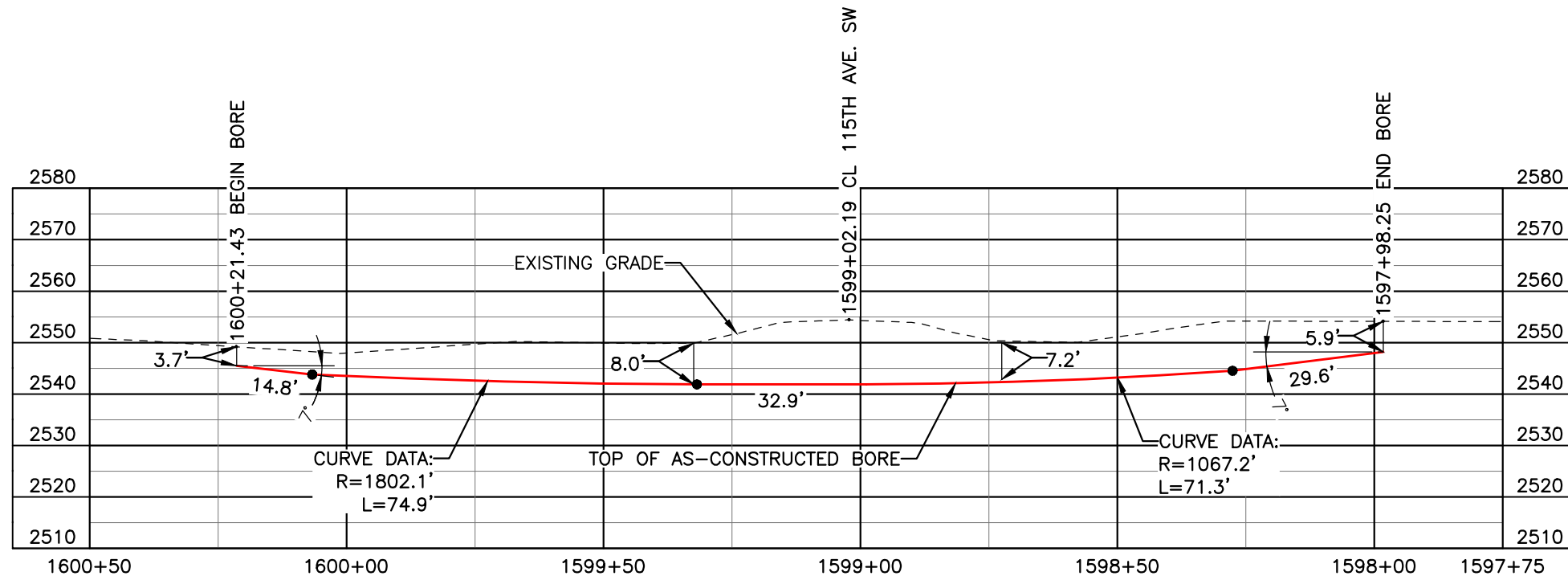


Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



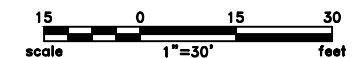
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1600+21.43	46°56'39.70" N	102°52'25.17" W
END BORE	1598+98.25	46°56'39.67" N	102°52'21.95" W

TOTAL HORIZONTAL DISTANCE = 223.18 FT.

TOTAL BORE LENGTH = 223.5 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND

— PROPERTY LINE	— X — X — EXISTING FENCE	— AVOIDANCE AREA
— SECTION LINE	— FO — FIBER OPTIC COM. LINE	— WETLAND
— EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— (E) — OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— □ — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	224'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
AS-CONSTRUCTED		

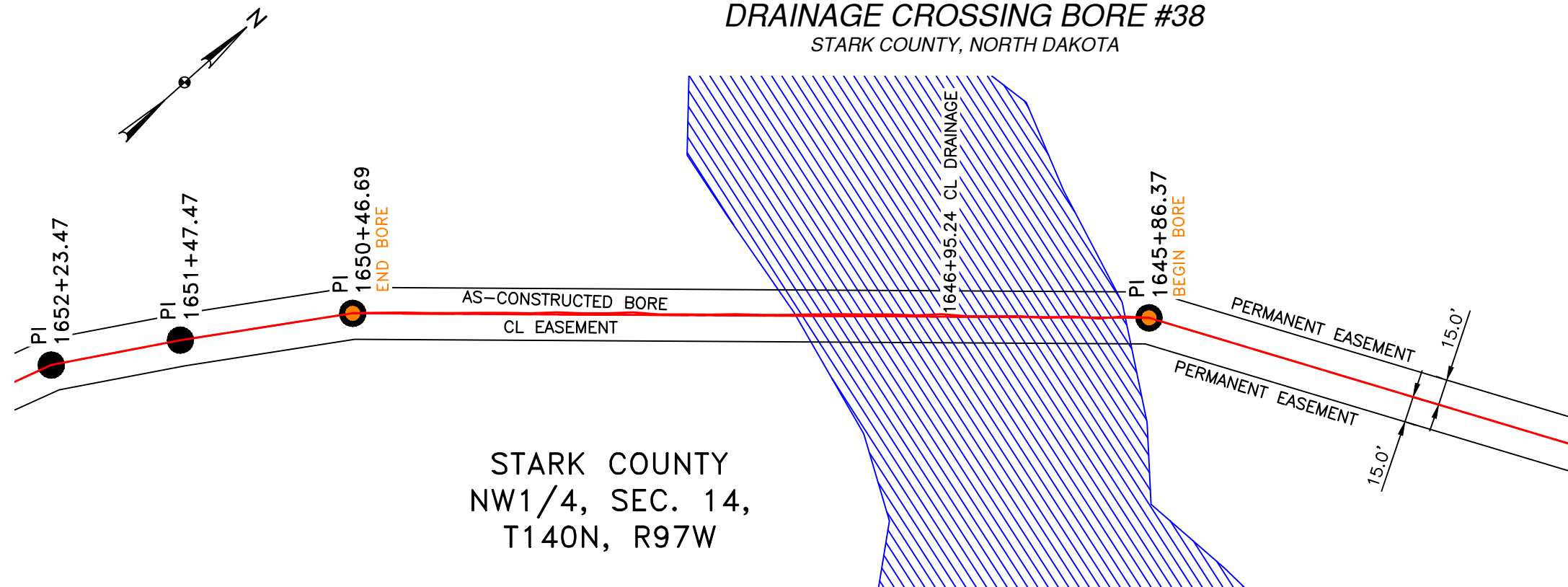
SCALE: 1" = 30'
 DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 84

BOE PIPELINE, LLC
 BOE PIPELINE PHASE I
 115TH AVE. SW CROSSING BORE #37
 SECTIONS 13 & 14, T.140N., R.97W., STARK COUNTY, ND

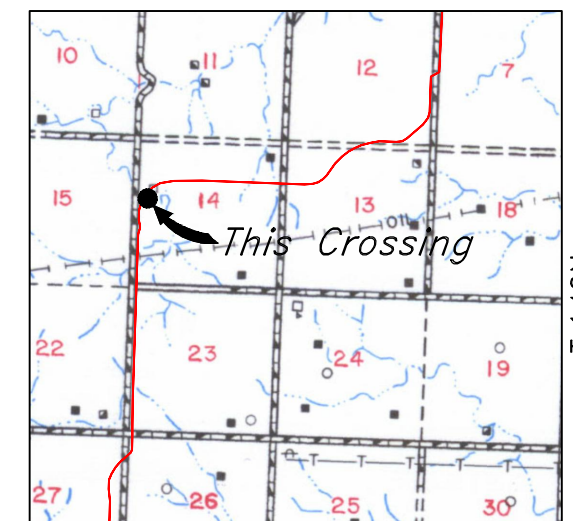
4585 Coleman Street
 Bismarck, ND 58503
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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #38

STARK COUNTY, NORTH DAKOTA



STARK COUNTY
NW1/4, SEC. 14,
T140N, R97W

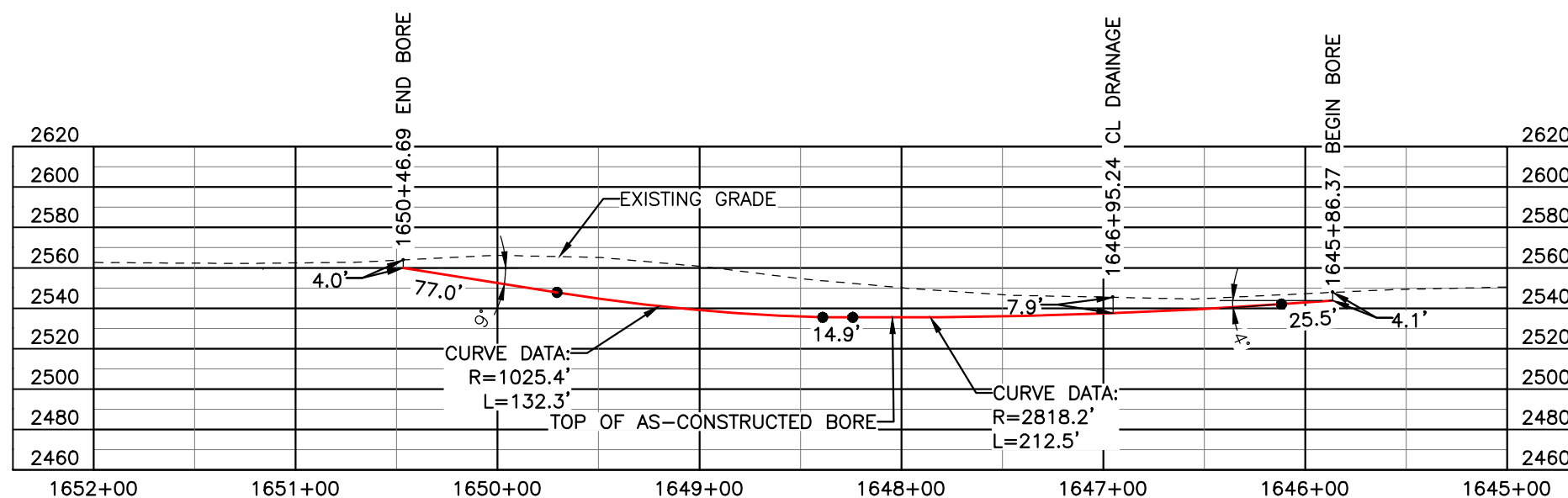


Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

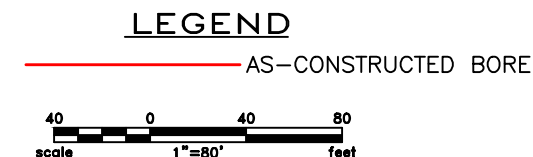
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1645+86.37	46°56'36.80" N	102°53'30.13" W
END BORE	1650+46.69	46°56'33.33" N	102°53'34.42" W

TOTAL HORIZONTAL DISTANCE = 460.32 FT.

TOTAL BORE LENGTH = 462.2 FT.



LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
--- EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
--- EXISTING ROAD	—□— MARKER POST	
--- UNDERGROUND COM. LINE	—□— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	462'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 85

BOE PIPELINE, LLC

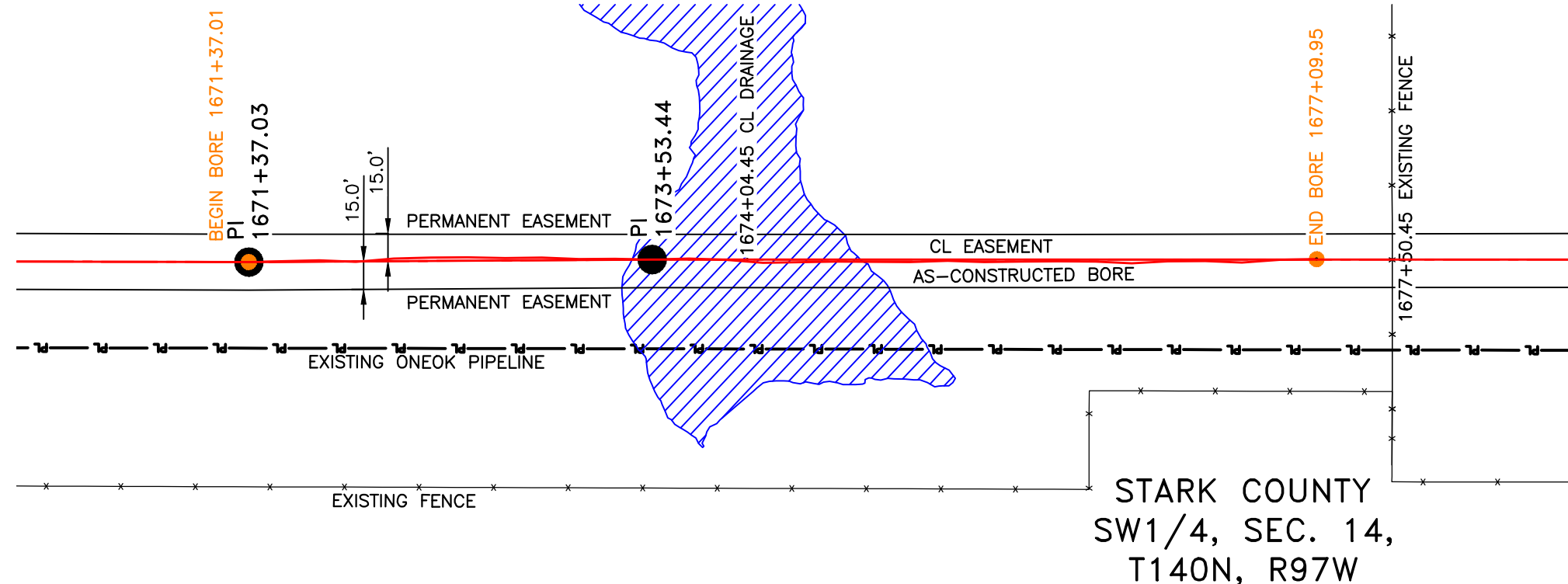
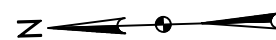
**BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE
BORE #38**

SECTION 14, T.140N., R.97W., STARK COUNTY, ND

4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I DRAINAGE CROSSING BORE #39

STARK COUNTY, NORTH DAKOTA

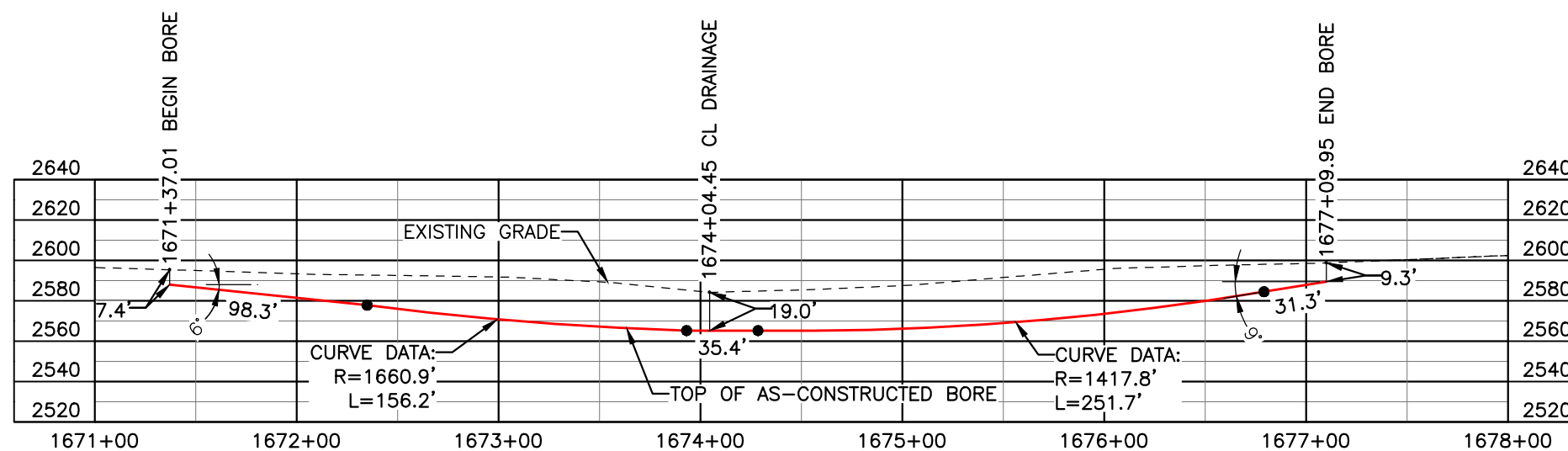


R.97W. | R.96W.

Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1671+37.01	46°56'13.21" N	102°53'37.00" W
END BORE	1677+09.95	46°56'07.55" N	102°53'36.98" W

TOTAL HORIZONTAL DISTANCE = 572.94 FT.

TOTAL BORE LENGTH = 572.9 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
— SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
— EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	573'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	10/31/14

REVISIONS

NO.	DATE	DESCRIPTION
1		AS-CONSTRUCTED

SCALE: 1" = 80'

DRAWN BY: M. STICKLAND
 DATE: 10/31/2014
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLJ JOB NUMBER: 1713140
 REVISION: SHEET: 86

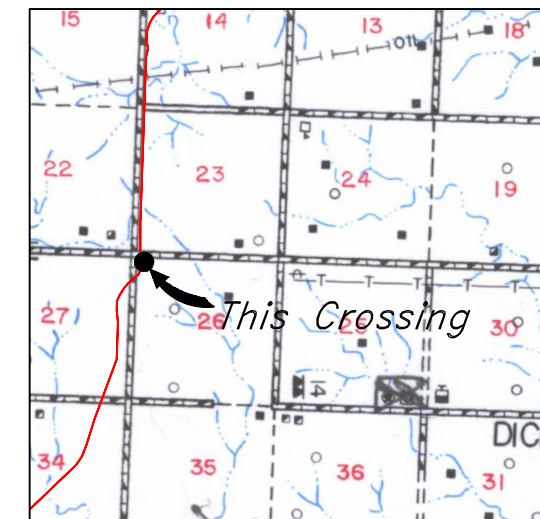
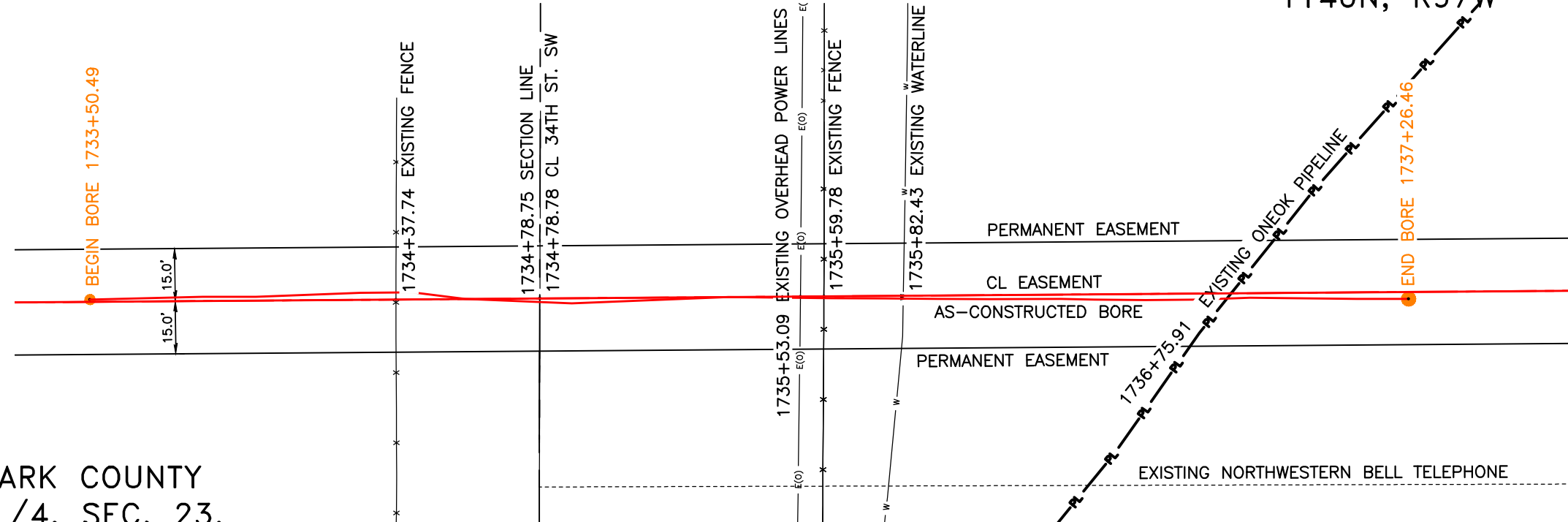
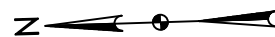
BOE BOE PIPELINE, LLC

**BOE PIPELINE PHASE I
DRAINAGE CROSSING BORE #39**
SECTION 14, T.140N., R.97W., STARK COUNTY, ND

4585 Coleman Street
Bismarck, ND 58503
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BOE PIPELINE PHASE I
34TH ST. SW CROSSING BORE #40
 STARK COUNTY, NORTH DAKOTA

STARK COUNTY
 NW1/4, SEC. 26,
 T140N, R97W



R.97W. | R.96W.

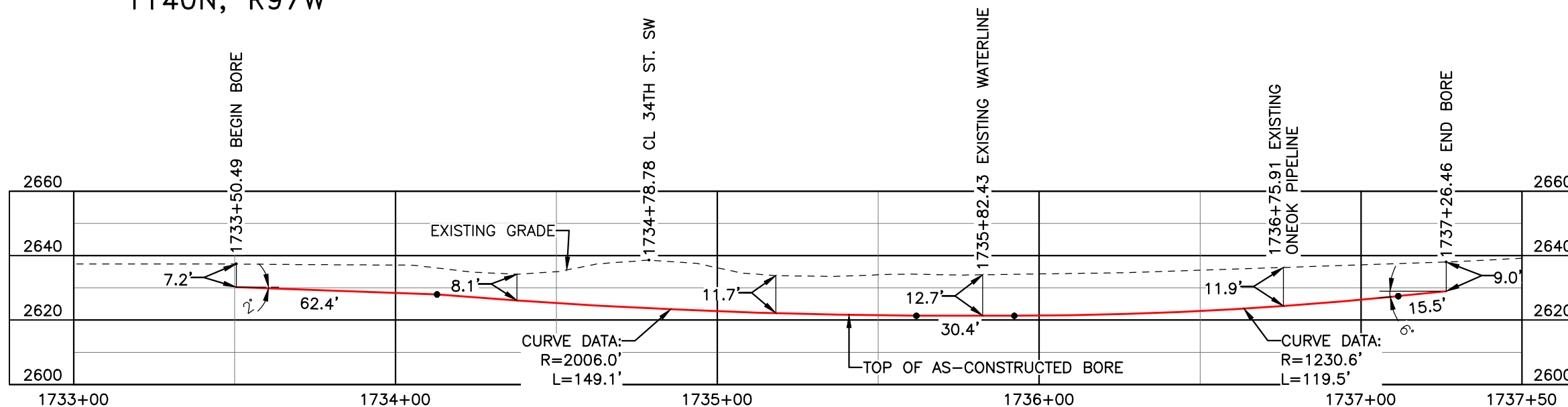
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

STARK COUNTY
 SW1/4, SEC. 23,
 T140N, R97W

AS-CONSTRUCTED

FINAL
 6/11/15



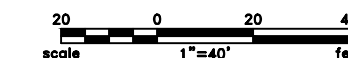
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1733+50.49	46°55'11.88" N	102°53'36.70" W
END BORE	1737+26.46	46°55'08.17" N	102°53'36.70" W

TOTAL HORIZONTAL DISTANCE = 375.97 FT.

TOTAL BORE LENGTH = 376.9 FT.

LEGEND

AS-CONSTRUCTED BORE



LEGEND

—	PROPERTY LINE	—*—*	EXISTING FENCE	▨	AVOIDANCE AREA
- - -	SECTION LINE	—FO—	FIBER OPTIC COM. LINE	▨	WETLAND
- - -	EASEMENT LINE	—R—R—	RAILROAD	▨	EASEMENT
—	PIPELINE CENTERLINE	—E(O)—	OVERHEAD ELECTRIC	—	TEST LEAD
—W—	WATER LINE	—	UTILITY POLE	—	
—P—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	—	
—	EXISTING ROAD	—	MARKER POST	—	
—	UNDERGROUND COM. LINE	—	VALVE SETTING	—	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	377'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLI JOB NUMBER: 1713140
 REVISION: SHEET: 87

BOE PIPELINE, LLC

BOE PIPELINE PHASE I
 34TH ST. SW CROSSING BORE #40
 SECTIONS 23 & 26, T.140N., R.97W., STARK COUNTY, ND

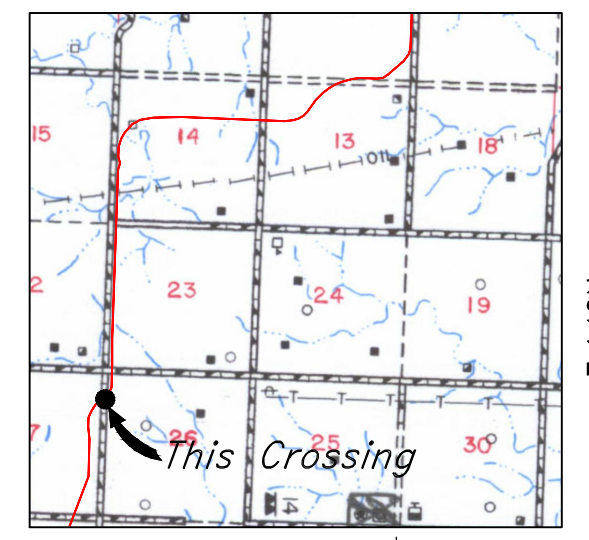
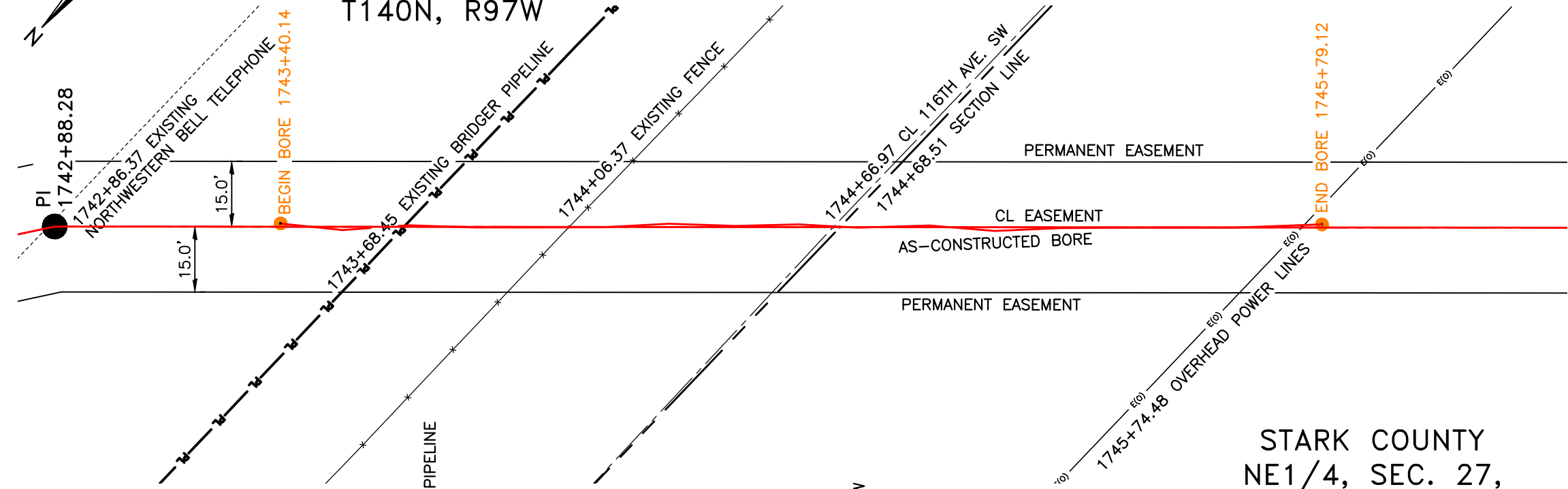
KLJ

4585 Coleman Street
 Bismarck, ND 58503
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STARK COUNTY
NW1/4, SEC. 26,
T140N, R97W

BOE PIPELINE PHASE I
116TH AVE. SW CROSSING BORE #41
STARK COUNTY, NORTH DAKOTA

STARK COUNTY
NE1/4, SEC. 27,
T140N, R97W

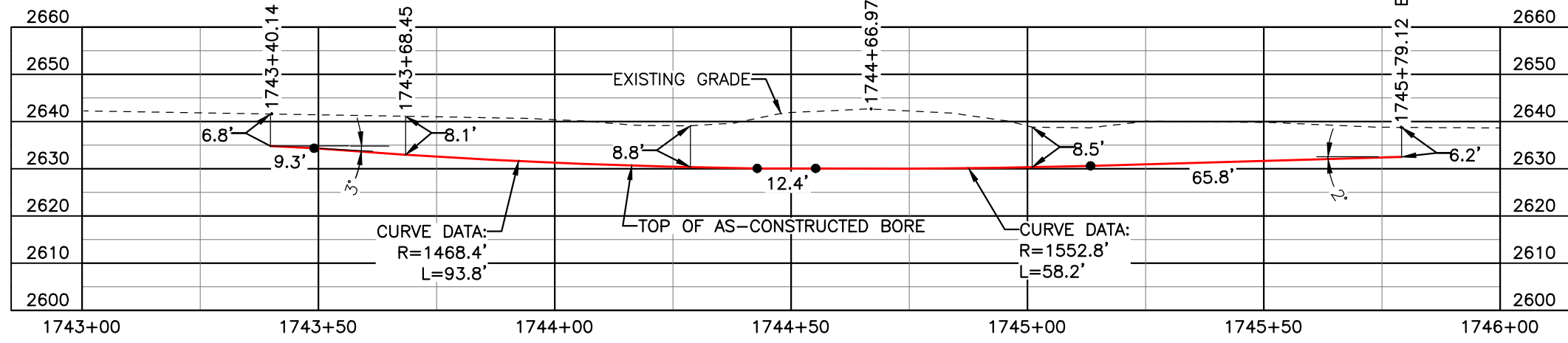


Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16.0" OD x 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1743+40.14	46°55'02.40" N	102°53'37.99" W
END BORE	1745+79.12	46°55'00.77" N	102°53'40.48" W

TOTAL HORIZONTAL DISTANCE = 238.98 FT.
TOTAL BORE LENGTH = 239.5 FT.

LEGEND

AS-CONSTRUCTED BORE

LEGEND

— PROPERTY LINE	— X — EXISTING FENCE	▨ AVOIDANCE AREA
- - - SECTION LINE	— FO — FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	— RR — RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	— E — OVERHEAD ELECTRIC	— T — TEST LEAD
— WATER LINE	— U — UTILITY POLE	
— FOREIGN PIPELINE	— B — AS-CONSTRUCTED BORE	
— EXISTING ROAD	— M — MARKER POST	
— UNDERGROUND COM. LINE	— V — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	240'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 88

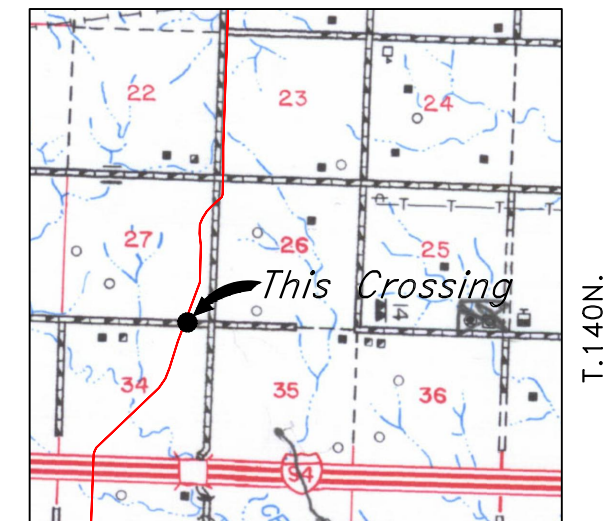
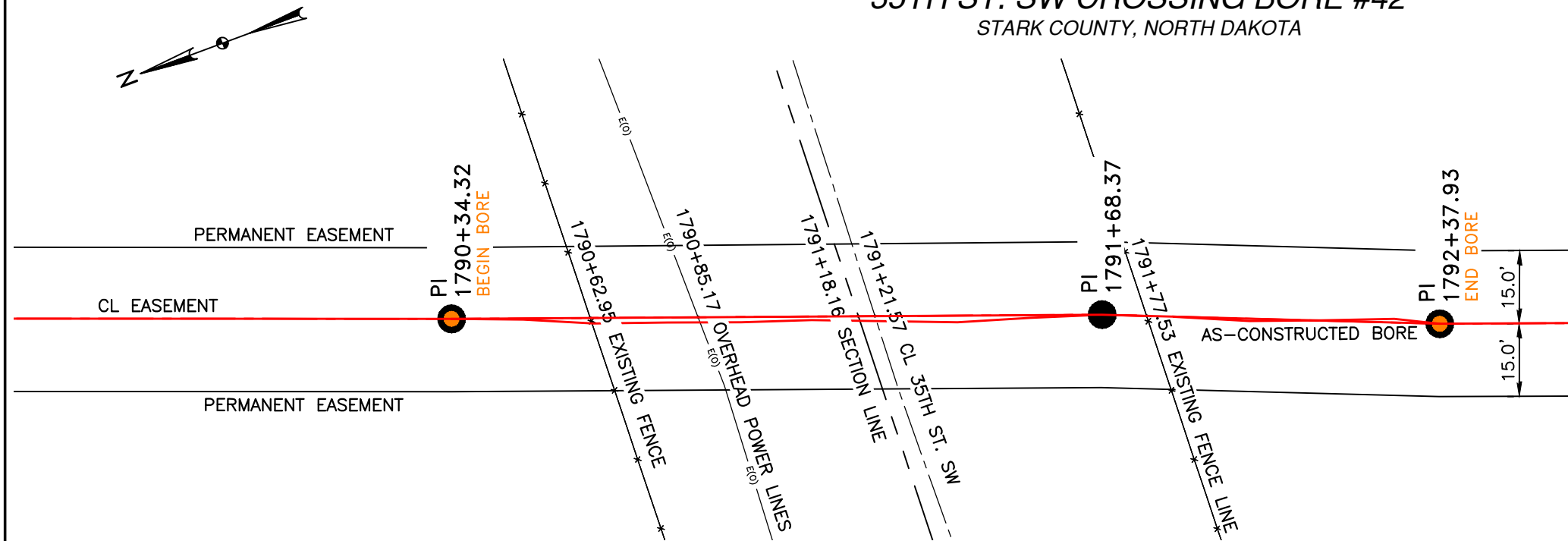
BOE BOE PIPELINE, LLC

BOE PIPELINE PHASE I
116TH AVE. SW CROSSING BORE #41
SECTIONS 26 & 27, T.140N., R.97W., STARK COUNTY, ND

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Bismarck, ND 58503
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BOE PIPELINE PHASE I
35TH ST. SW CROSSING BORE #42
 STARK COUNTY, NORTH DAKOTA



R.97W.

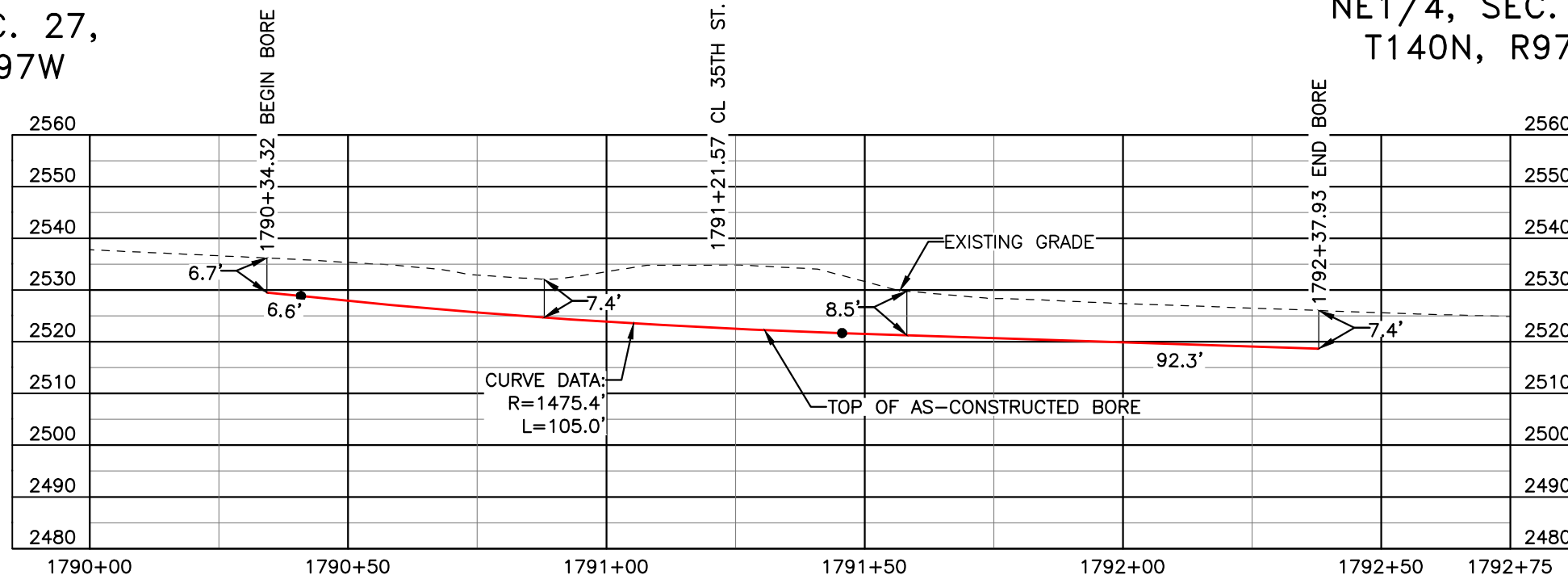
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

STARK COUNTY
 SE1/4, SEC. 27,
 T140N, R97W

STARK COUNTY
 NE1/4, SEC. 34,
 T140N, R97W

AS-CONSTRUCTED

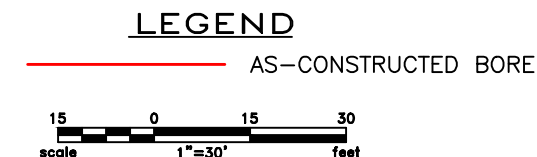


FINAL
 6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1790+34.32	46°54'19.20" N	102°53'53.48" W
END BORE	1792+37.93	46°54'17.30" N	102°53'54.43" W

TOTAL HORIZONTAL DISTANCE = 203.61 FT.

TOTAL BORE LENGTH = 203.9 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	▨ AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	▨ WETLAND
- - - EASEMENT LINE	—R— RAILROAD	▨ EASEMENT
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	—□— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
--- UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
4	204'	20" OD, 0.375" W.T. API 5L X65, 14-16 MIL FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
 DATE: 06/11/15
 CHECKED BY: D. DIONNE
 APPROVED BY: S. BESMER
 KLI JOB NUMBER: 1713140
 REVISION: SHEET: 89

BOE
 BAKKEN OIL EXPRESS

BOE PIPELINE, LLC

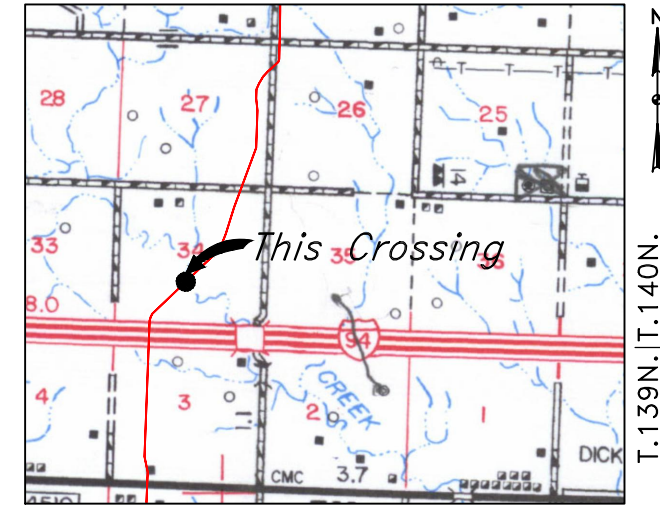
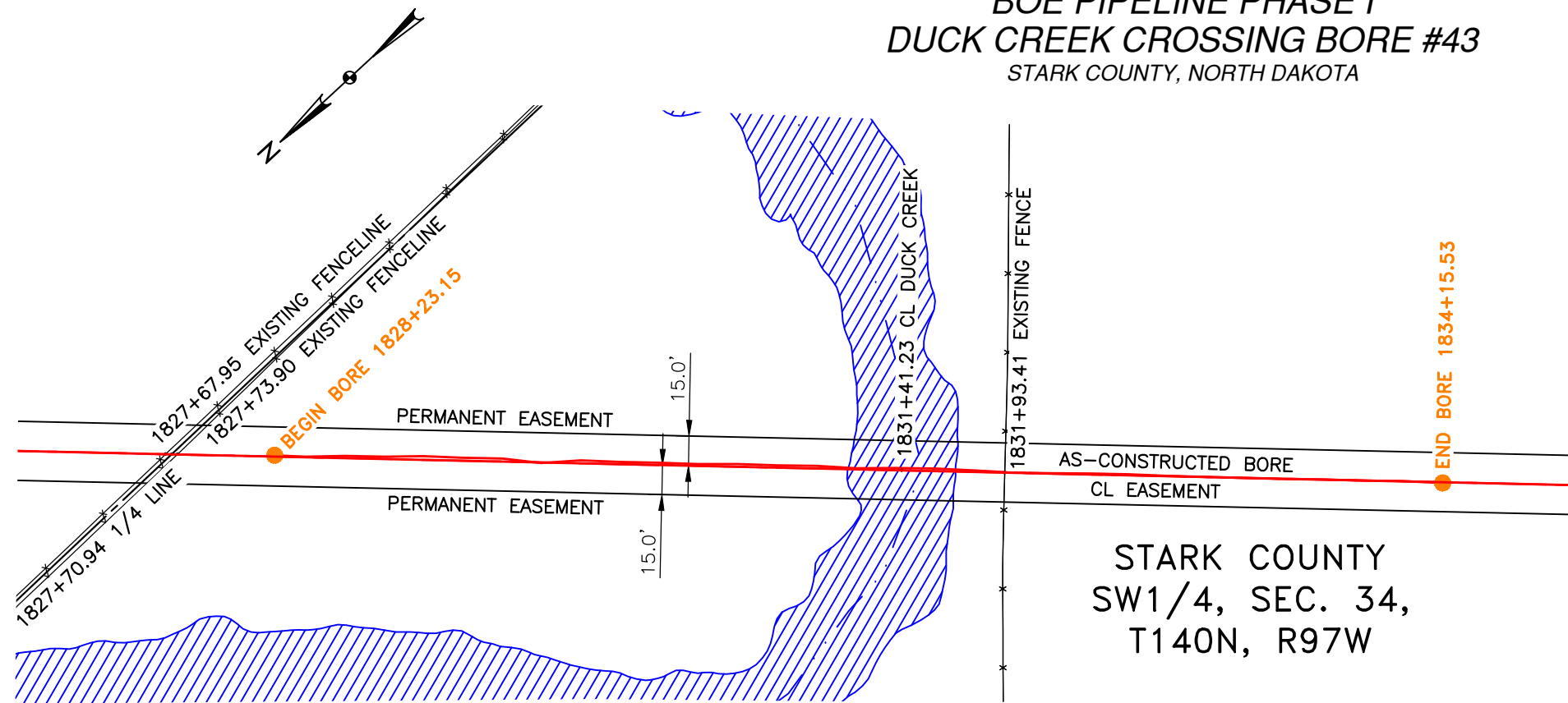
BOE PIPELINE PHASE I
 35TH ST. SW CROSSING BORE #42
 SECTIONS 27 & 34, T.140N., R.97W., STARK COUNTY, ND

KLJ

4585 Coleman Street
 Bismarck, ND 58503

BOE PIPELINE PHASE I DUCK CREEK CROSSING BORE #43

STARK COUNTY, NORTH DAKOTA

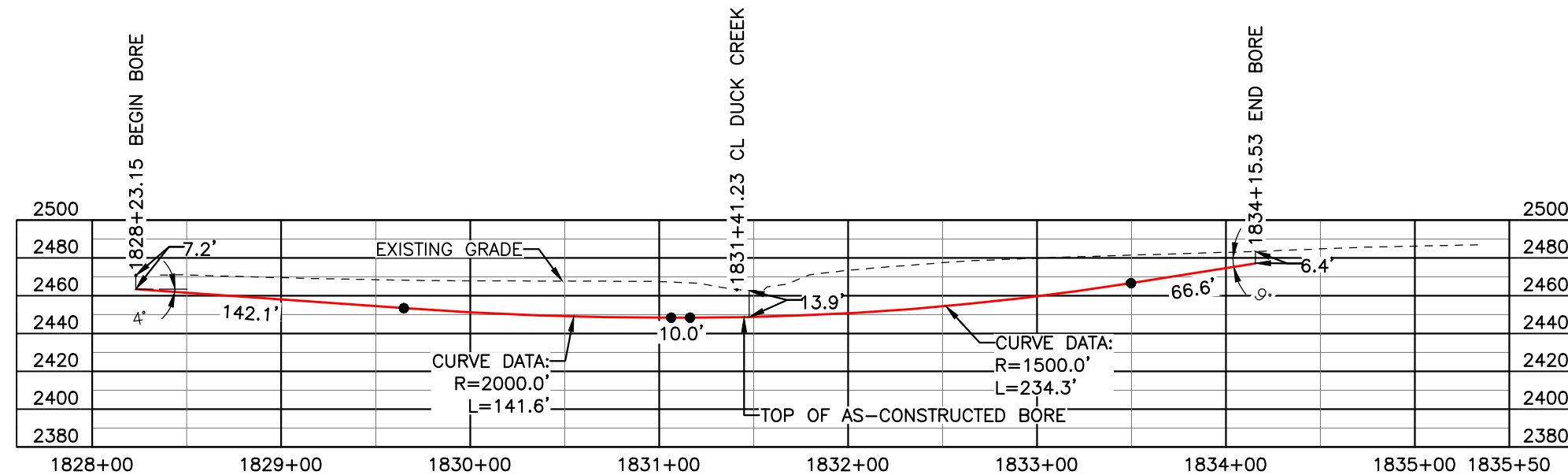


R.97W.
Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1828+23.15	46°53'46.64" N	102°54'17.68" W
END BORE	1834+15.53	46°53'42.48" N	102°54'23.67" W

TOTAL HORIZONTAL DISTANCE = 592.38 FT.
 TOTAL BORE LENGTH = 594.6 FT.

LEGEND

— AS-CONSTRUCTED BORE

LEGEND			MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		SCALE: 1" = 80'	
—	PROPERTY LINE	—	EXISTING FENCE	█	AVOIDANCE AREA	—	DWG. NO.	NO.	DATE	SCALE: 1" = 80'
---	SECTION LINE	—	FIBER OPTIC COM. LINE	█	WETLAND EASEMENT	---	DESCRIPTION	0	06/11/15	DRAWN BY: M. STICKLAND
---	EASEMENT LINE	—	RAILROAD	█	TEST LEAD	---	DESCRIPTION	0	06/11/15	DATE: 06/11/15
---	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC	█	AS-CONSTRUCTED BORE	---	DESCRIPTION	0	06/11/15	CHECKED BY: D. DIONNE
---	WATER LINE	—	UTILITY POLE	█	MARKER POST	---	DESCRIPTION	0	06/11/15	APPROVED BY: S. BESMER
---	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE	█	VALVE SETTING	---	DESCRIPTION	0	06/11/15	KLJ JOB NUMBER: 1713140
---	EXISTING ROAD	—	MARKER POST	█		---	DESCRIPTION	0	06/11/15	REVISION:
---	UNDERGROUND COM. LINE	—	VALVE SETTING	█		---	DESCRIPTION	0	06/11/15	SHEET: 90

BOE
 BAKKEN OIL EXPRESS
 BOE PIPELINE, LLC

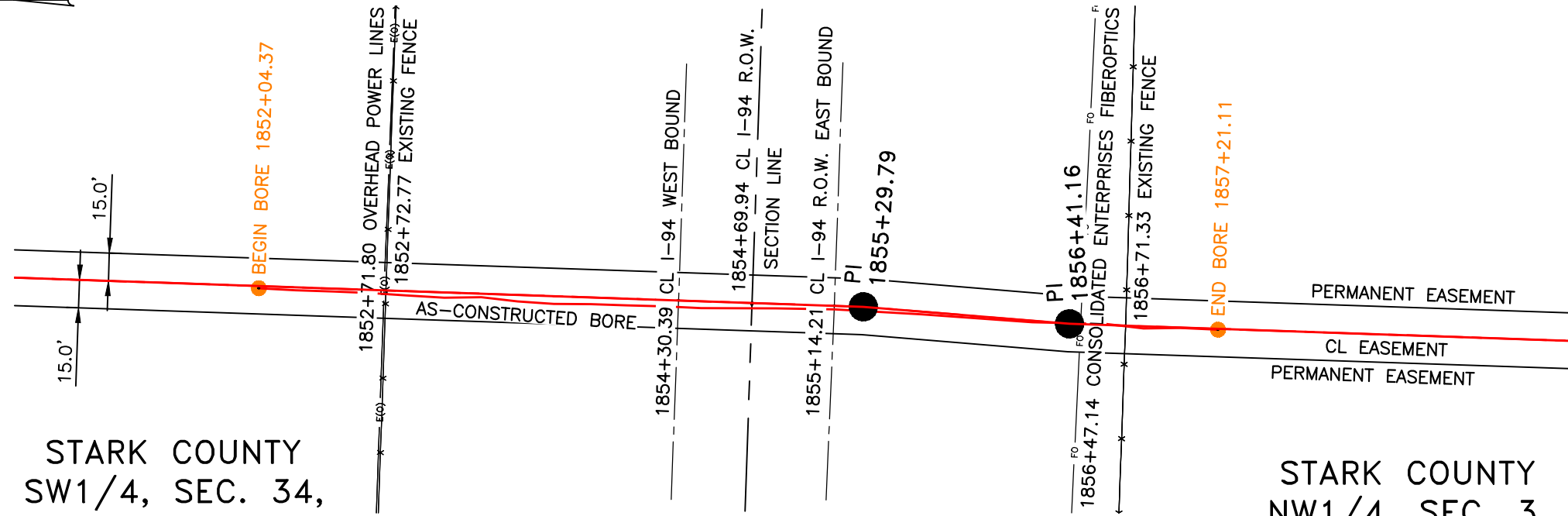
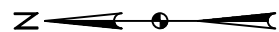
BOE PIPELINE PHASE I
 DUCK CREEK CROSSING BORE
 BORE #43
 SECTION 34, T.140N., R.97W., STARK COUNTY, ND

KLJ

4585 Coleman Street
 Bismarck, ND 58503
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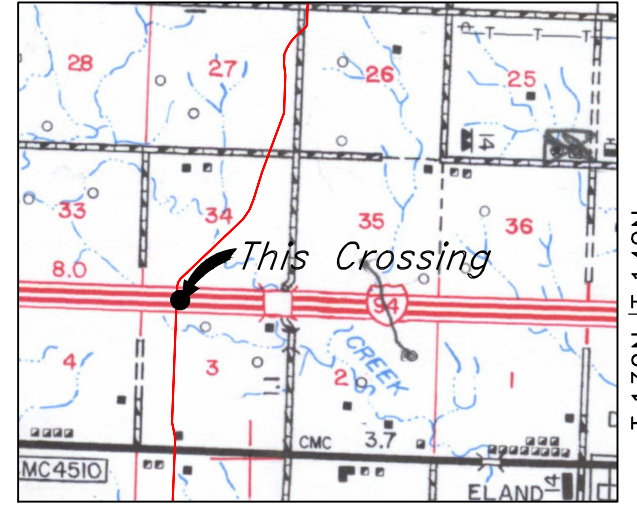
BOE PIPELINE PHASE I INTERSTATE 94 CROSSING BORE #44

STARK COUNTY, NORTH DAKOTA



STARK COUNTY
SW1/4, SEC. 34,
T140N, R97W

STARK COUNTY
NW1/4, SEC. 3,
T139N, R97W

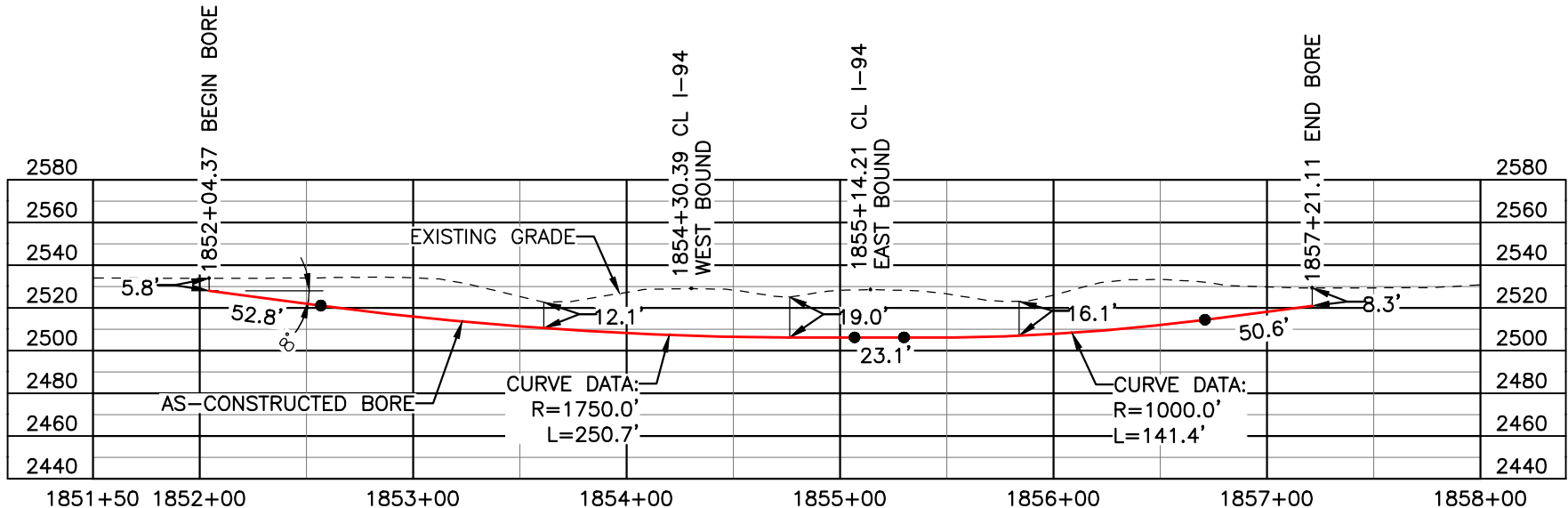


R.97W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

FINAL
6/11/15



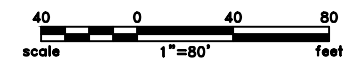
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1852+04.37	46°53'28.89" N	102°54'38.91" W
END BORE	1857+21.11	46°53'23.79" N	102°54'39.00" W

TOTAL HORIZONTAL DISTANCE = 516.74 FT.

TOTAL BORE LENGTH = 518.6 FT.

LEGEND

— AS-CONSTRUCTED BORE



LEGEND	
— PROPERTY LINE	—*— EXISTING FENCE
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE
--- EASEMENT LINE	—R— RAILROAD
— PIPELINE CENTERLINE	—(E)— OVERHEAD ELECTRIC
— WATER LINE	—□— UTILITY POLE
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE
--- EXISTING ROAD	—□— MARKER POST
--- UNDERGROUND COM. LINE	—▲— VALVE SETTING
— AVOIDANCE AREA	—▲— TEST LEAD
— WETLAND	

MATERIAL SUMMARY	
MK. NO.	QTY.
4	519'
DESCRIPTION	
20.0" O.D. X 0.375" W.T., API 5L X65, 14-16 MIL FBE	

REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	DESCRIPTION	NO.	DATE
		0	06/11/15
		DESCRIPTION	
		AS-CONSTRUCTED	

SCALE: 1" = 80'
DRAWN BY: M. STICKLAND
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 91

BOE PIPELINE, LLC

BOE PIPELINE PHASE I

I-94 CROSSING BORE

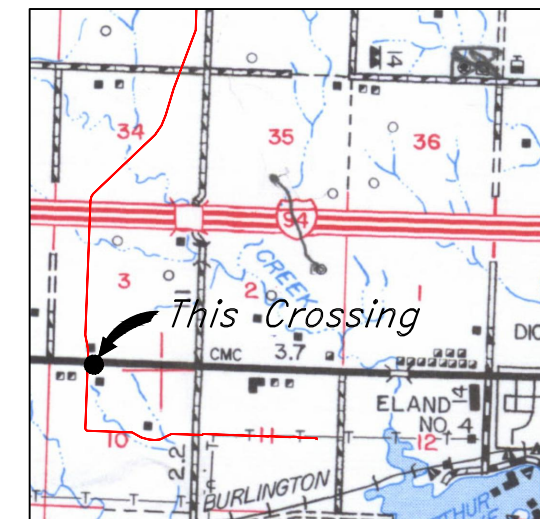
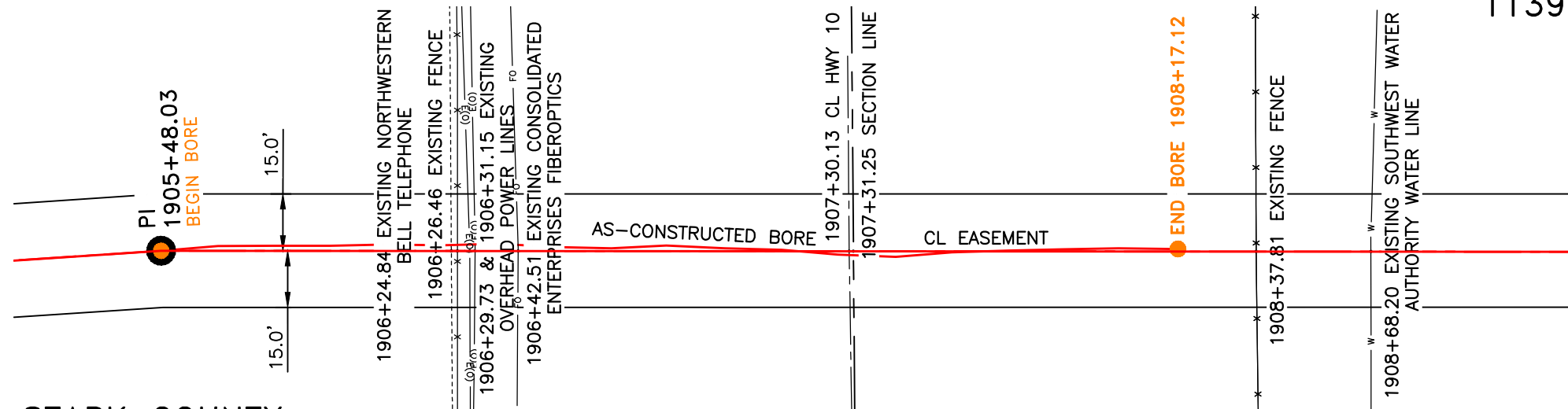
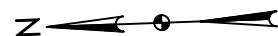
BORE #44

SEC. 34, T.140N., R.97W. & SEC. 3, T.139N., R.97W., STARK COUNTY, ND

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Bismarck, ND 58503
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**BOE PIPELINE PHASE I
HIGHWAY 10 CROSSING BORE #45**
STARK COUNTY, NORTH DAKOTA

STARK COUNTY
NW1/4, SEC. 10,
T139N, R97W



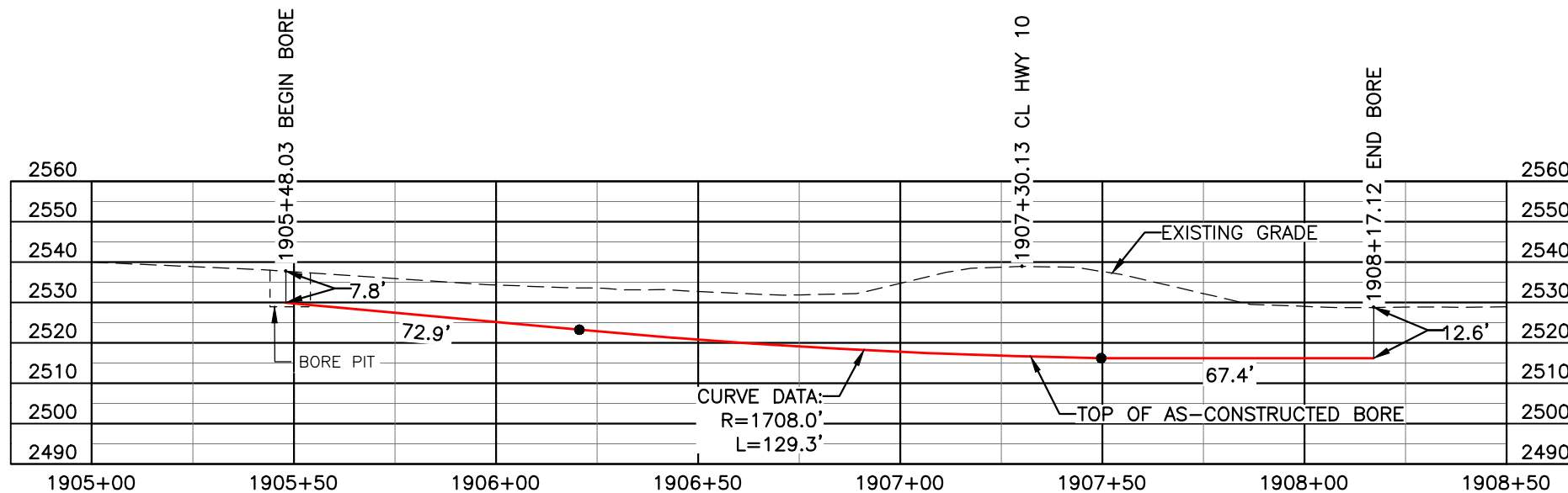
STARK COUNTY
SW1/4, SEC. 3,
T139N, R97W

R.97W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED

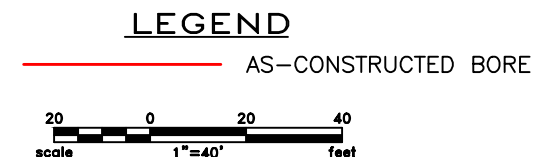
FINAL
6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1905+48.03	46°52'36.28" N	102°54'37.38" W
END BORE	1908+17.12	46°52'33.62" N	102°54'37.39" W

TOTAL HORIZONTAL DISTANCE = 269.09 FT.

TOTAL BORE LENGTH = 269.6 FT.



LEGEND

— PROPERTY LINE	—*—*— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	—FO— FIBER OPTIC COM. LINE	— WETLAND
- - - EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— □ — UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— □ — MARKER POST	
— UNDERGROUND COM. LINE	— □ — VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
4	270'	20" OD, 0.375" W.T. API 5L X65, 14-16 MIL FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION
0	10/31/14 AS-CONSTRUCTED

REVISIONS

NO.	DATE	DESCRIPTION
0	10/31/14	AS-CONSTRUCTED

SCALE: 1" = 40'

DRAWN BY: M. STICKLAND
DATE: 10/31/2014
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KLJ JOB NUMBER: 1713140
REVISION: SHEET: 92

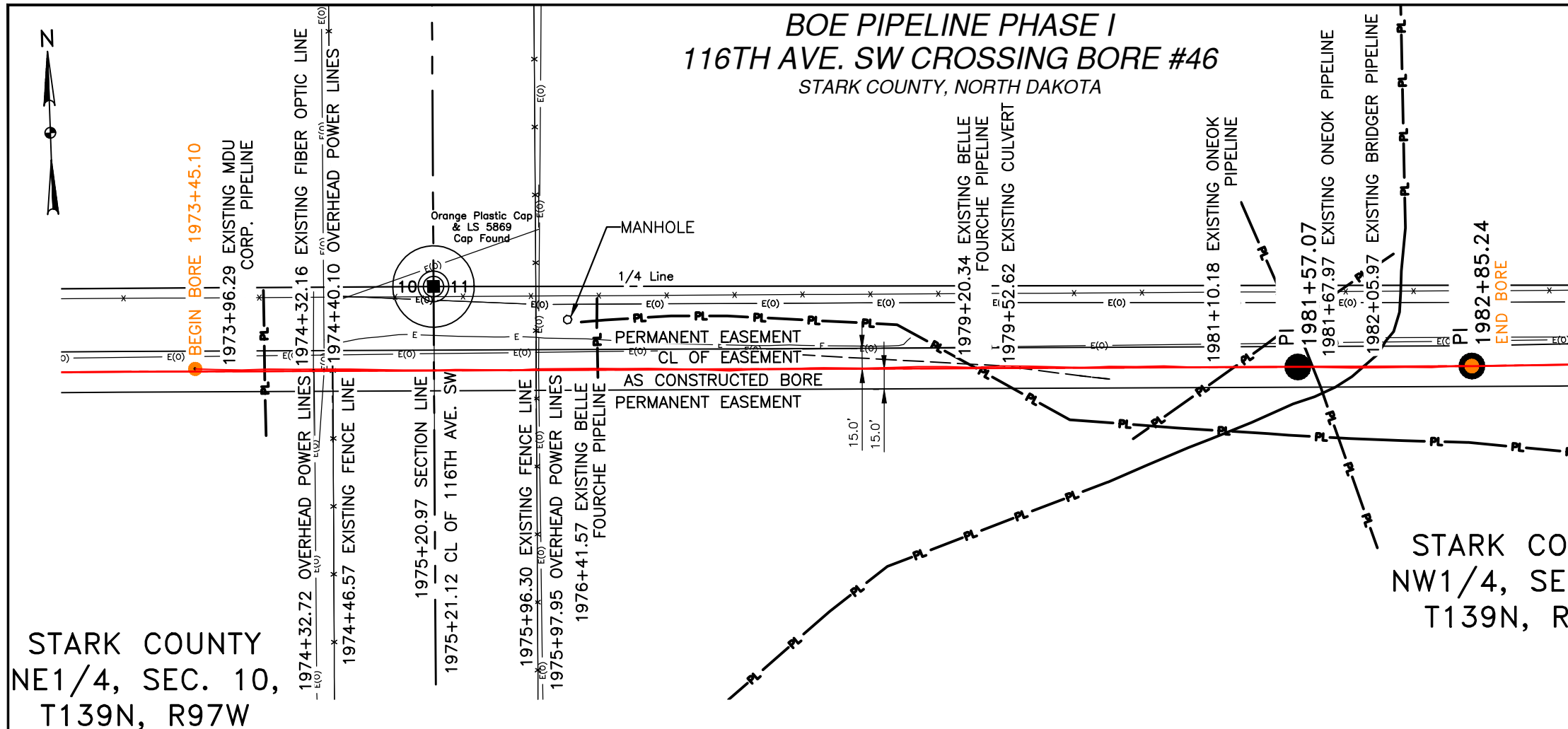
BOE **BAKKEN OIL EXPRESS** BOE PIPELINE, LLC

BOE PIPELINE PHASE I
HIGHWAY 10 CROSSING BORE
BORE #45
SECTIONS 3 & 10, T.139N., R.97W., STARK COUNTY, ND

KLJ

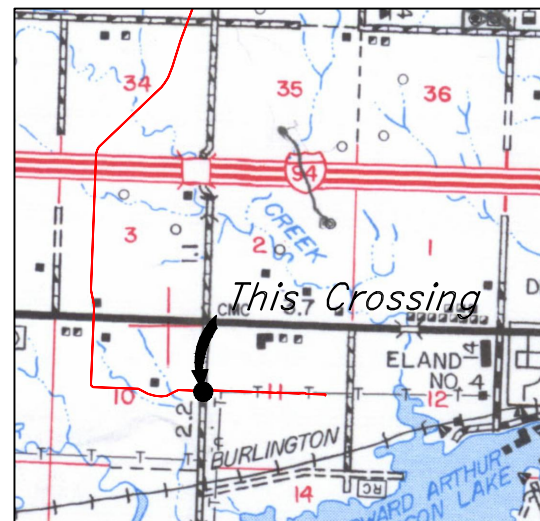
4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE I
116TH AVE. SW CROSSING BORE #46
 STARK COUNTY, NORTH DAKOTA



STARK COUNTY
 NE1/4, SEC. 10,
 T139N, R97W

STARK COUNTY
 NW1/4, SEC. 11,
 T139N, R97W

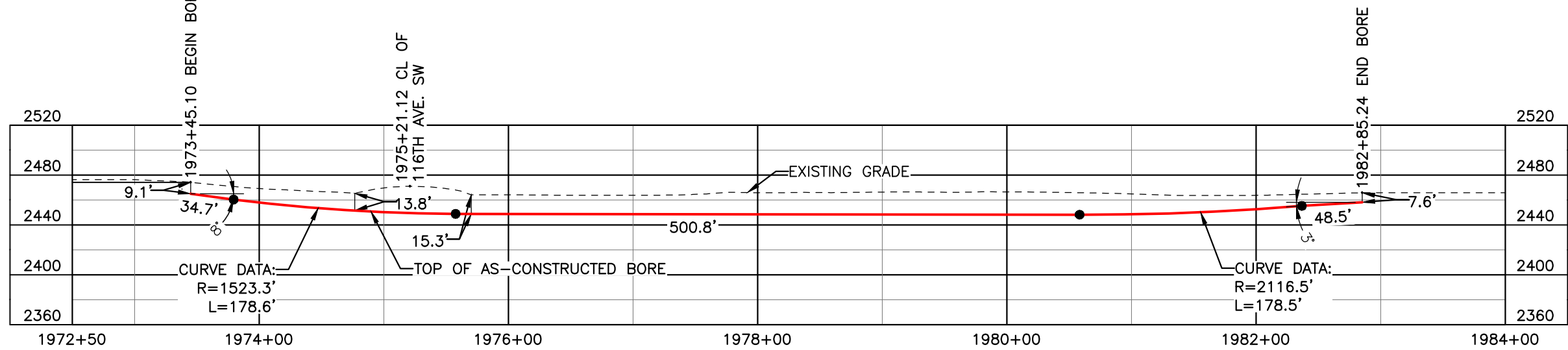


R.97W.
 Location Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

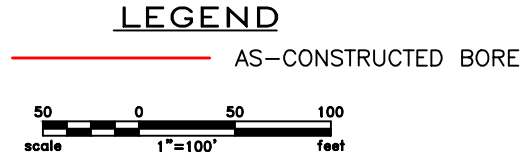
AS-CONSTRUCTED

FINAL
 6/11/15



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1973+45.10	46°52'07.87" N	102°52'41.79" W
END BORE	1982+85.24	46°52'07.84" N	102°53'28.26" W

TOTAL HORIZONTAL DISTANCE = 940.44 FT.
 TOTAL BORE LENGTH = 941.2 FT.



LEGEND

— PROPERTY LINE	— EXISTING FENCE	— AVOIDANCE AREA
--- SECTION LINE	— FIBER OPTIC COM. LINE	— WETLAND
--- EASEMENT LINE	— RAILROAD	— EASEMENT
— PIPELINE CENTERLINE	— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
--- UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
4	941'	20" OD, 0.375" W.T. API 5L X65, 14-16 MIL FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
		0	6/11/15

REVISIONS

NO.	DATE	DESCRIPTION
		AS-CONSTRUCTED

BOE (Bakken Oil Express logo)
 BOE PIPELINE, LLC

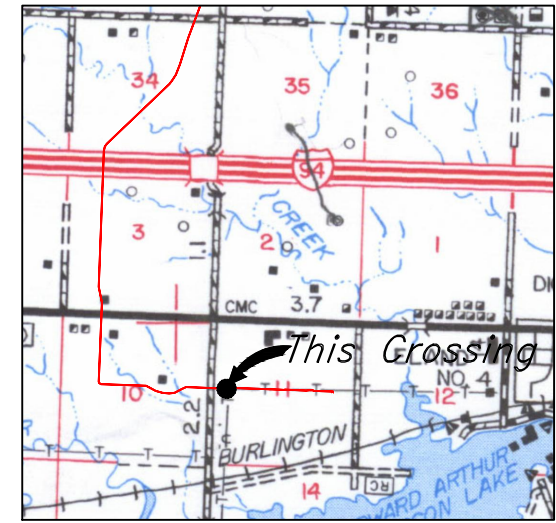
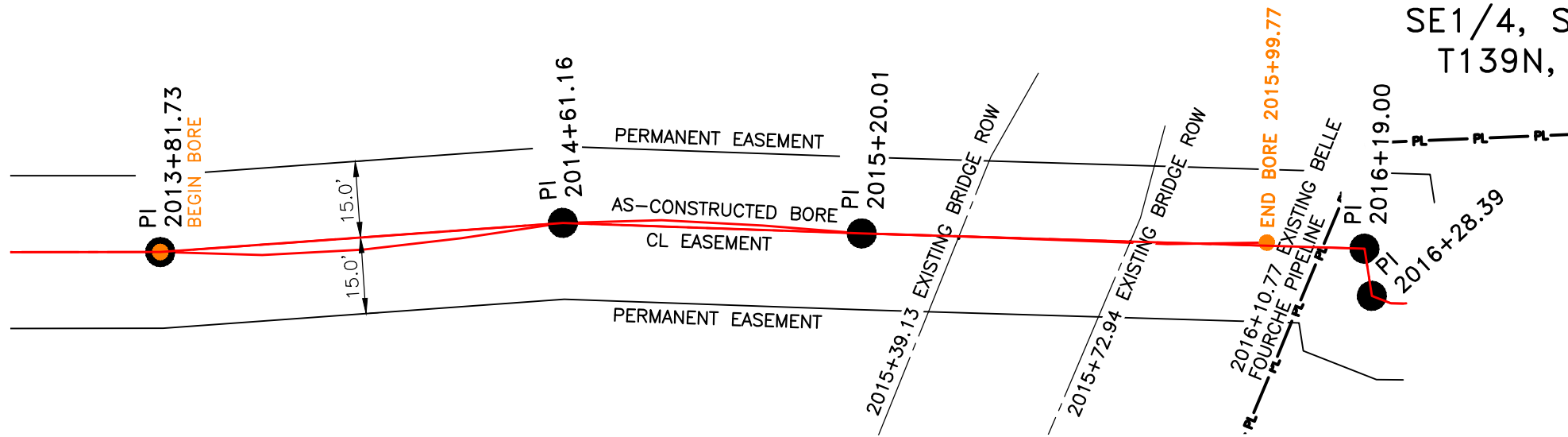
BOE PIPELINE PHASE I
 116TH AVE. SW CROSSING BORE #46
 SECTION 10 & 11, T.139N., R.97W., STARK COUNTY, ND

KLJ

4585 Coleman Street
 Bismarck, ND 58503

**BOE PIPELINE PHASE I
BRIDGE CROSSING BORE #47**
STARK COUNTY, NORTH DAKOTA

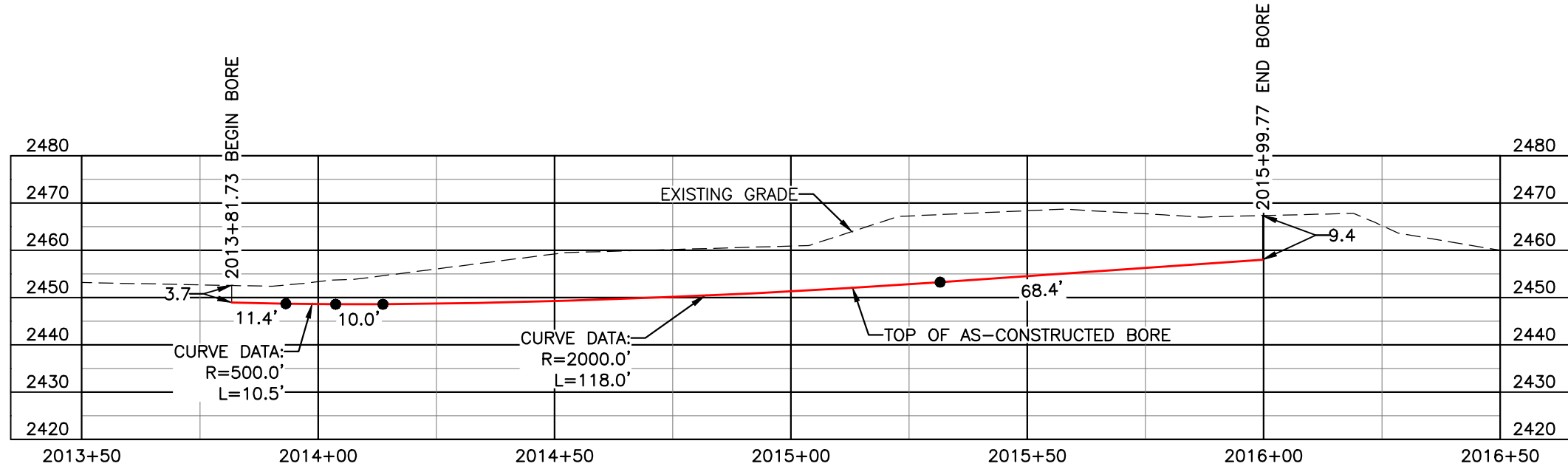
STARK COUNTY
SE1/4, SEC. 11,
T139N, R97W



R.97W.
Location Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 20.0" OD x 0.375" W.T., API 5L X65
Coating: 14-16 Mils FBE, 30-35 Mils ARO

AS-CONSTRUCTED



FINAL
6/11/15

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2013+81.73	46°52'07.51" N	102°52'43.71" W
END BORE	2015+99.77	46°52'07.52" N	102°52'40.57" W

NOTE:
INSTALL MARKER POSTS ON BOTH SIDES OF
RIGHT OF WAY FOR ALL LINE CROSSINGS

TOTAL HORIZONTAL DISTANCE = 218.04 FT.
TOTAL BORE LENGTH = 218.3 FT.

LEGEND

— AS-CONSTRUCTED BORE

15 0 15 30
scale 1"=30' feet

LEGEND

— PROPERTY LINE	—*— EXISTING FENCE	— AVOIDANCE AREA
- - - SECTION LINE	-FO- FIBER OPTIC COM. LINE	— WETLAND
- - - EASEMENT LINE	— RAILROAD	— EASEMENT
- - - PIPELINE CENTERLINE	—(O)— OVERHEAD ELECTRIC	— TEST LEAD
— WATER LINE	— UTILITY POLE	
— FOREIGN PIPELINE	— AS-CONSTRUCTED BORE	
— EXISTING ROAD	— MARKER POST	
— UNDERGROUND COM. LINE	— VALVE SETTING	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
4	218'	20" OD, 0.375" W.T. API 5L X65, 14-16 MIL FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION
0	06/11/15	AS-CONSTRUCTED

SCALE: 1" = 30'

DRAWN BY: M. STICKLAND
DATE: 06/11/15
CHECKED BY: D. DIONNE
APPROVED BY: S. BESMER
KJL JOB NUMBER: 1713140
REVISION: SHEET: 9.4

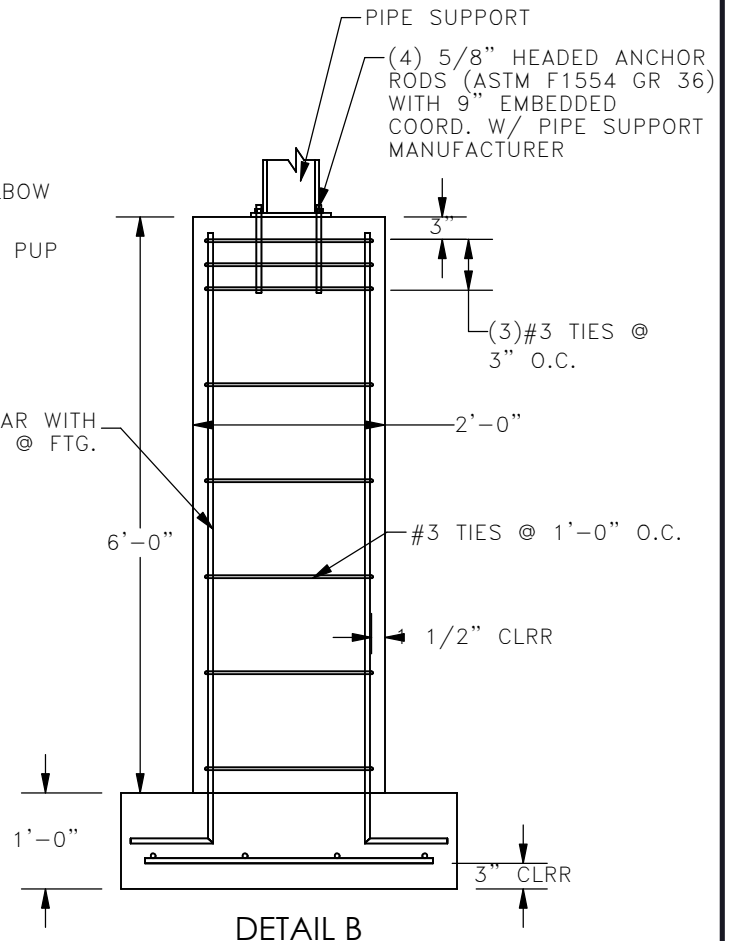
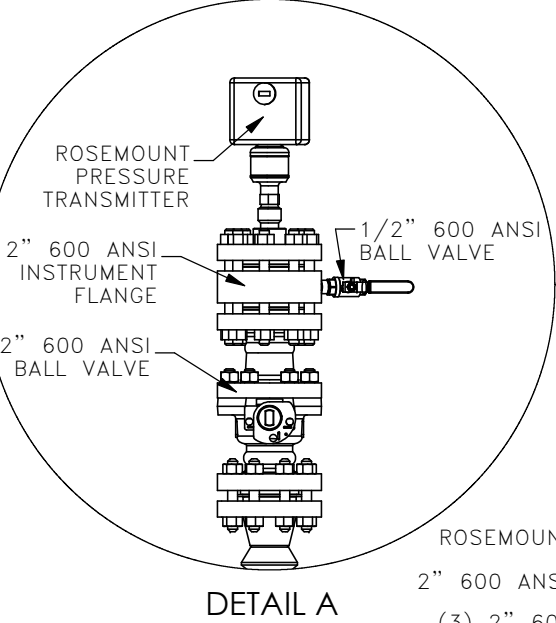
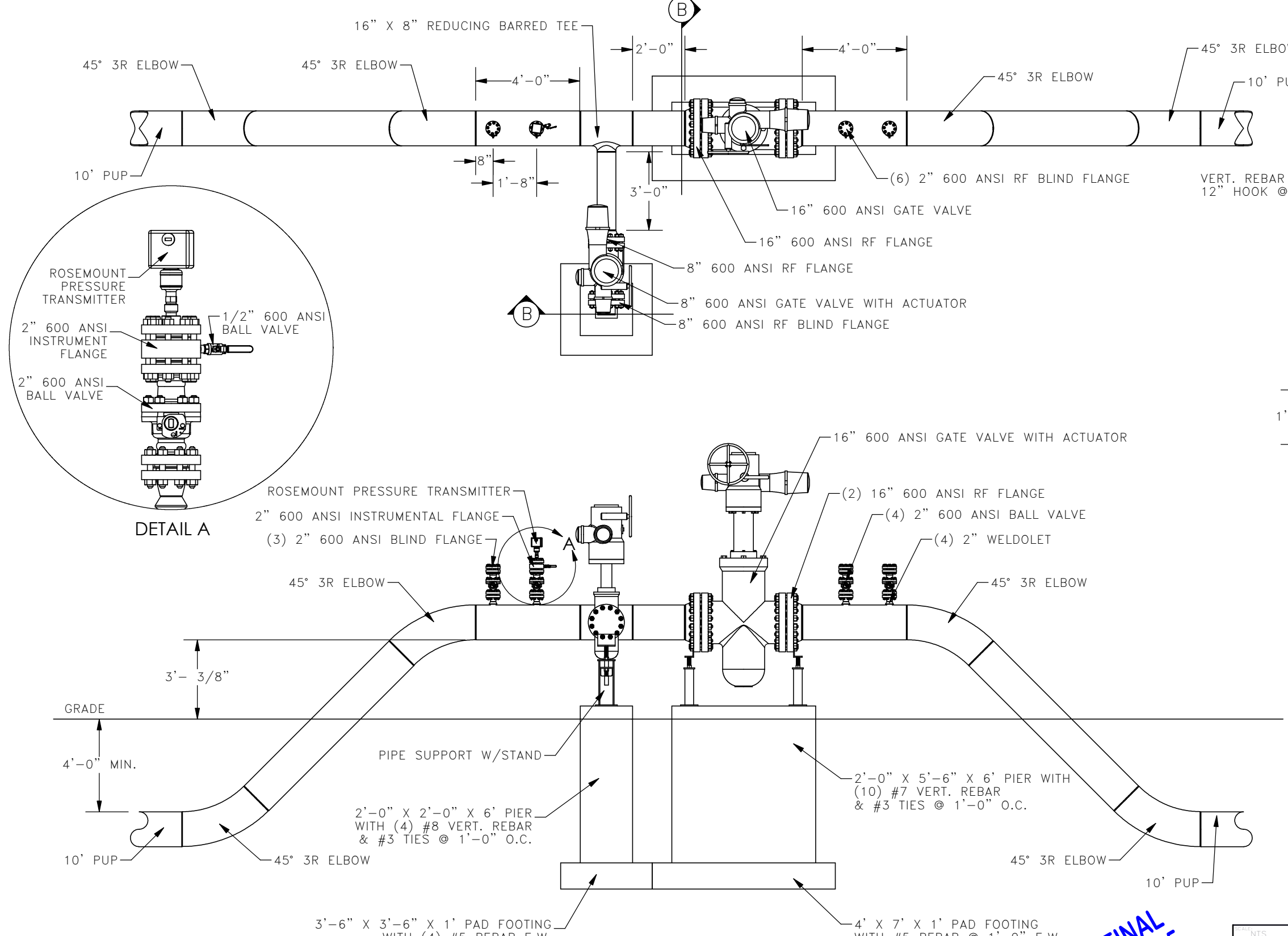
**BOE PIPELINE PHASE I
BRIDGE CROSSING BORE
BORE #47
SECTION 11, T.139N., R.97W., STARK COUNTY, ND**

BOE PIPELINE, LLC

KJL

4585 Coleman Street
Bismarck, ND 58503

16" VALVE SETTING W/ FUTURE
 PLAN AND PROFILE VIEW
 DETAIL "A"



- DESIGN CODES:**
 1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- DESIGN LOADS:**
 1. LIVE LOADS:
 1.1. MAXIMUM VALVE LOAD 15,000 #
- MATERIAL PROPERTIES:**
 CONCRETE PROPERTIES, 28-DAY COMPRESSIVE STRENGTH:
 1. FOUNDATION WALLS, PIERS & FOOTINGS 3,000 PSI
 REINFORCING PROPERTIES:
 1. REINFORCING BARS 60 KSI
 STRUCTURAL STEEL:
 1. HEADED ANCHOR RODS (ASTM F1554) 36 KSI
- SOILS AND FOUNDATIONS:**
 1. THE FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AS PER IBC 2012 TABLE 1806.2 AND USGS WEB SOIL SURVEY CLASS "CL" SOILS. A GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITION AND DESIGN ASSUMPTIONS PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
 3. PROTECT BOTTOM OF EXCAVATIONS AND SOIL ADJACENT TO AND BENEATH FOUNDATION FROM FREEZING.
 4. CONTRACTOR IS RESPONSIBLE FOR DEWATERING FOUNDATION DURING CONSTRUCTION.
- CONCRETE:**
 1. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS AND PIERS UNLESS OTHERWISE NOTED.
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 4. CONCRETE SHALL NOT BE PLACED ON SATURATED OR FROZEN SOIL.
 5. WATER SHALL NOT BE ADDED TO THE CONCRETE ON SITE.
 6. REINFORCING SHALL BE FREE OF LOOSE RUST AND MILL SCALE, EARTH, ICE AND OTHER FOREIGN MATERIALS THAT WOULD REDUCE BOND TO CONCRETE.
 7. CONCRETE CONTRACTOR SHALL COORDINATE LOCATION OF EMBEDDED ITEMS BY OTHER DISCIPLINES WITH GENERAL CONTRACTOR.

NOTE:
 SUB-ASSEMBLY PRE-FABRICATION BY THIRD PARTY. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUB-ASSEMBLIES.

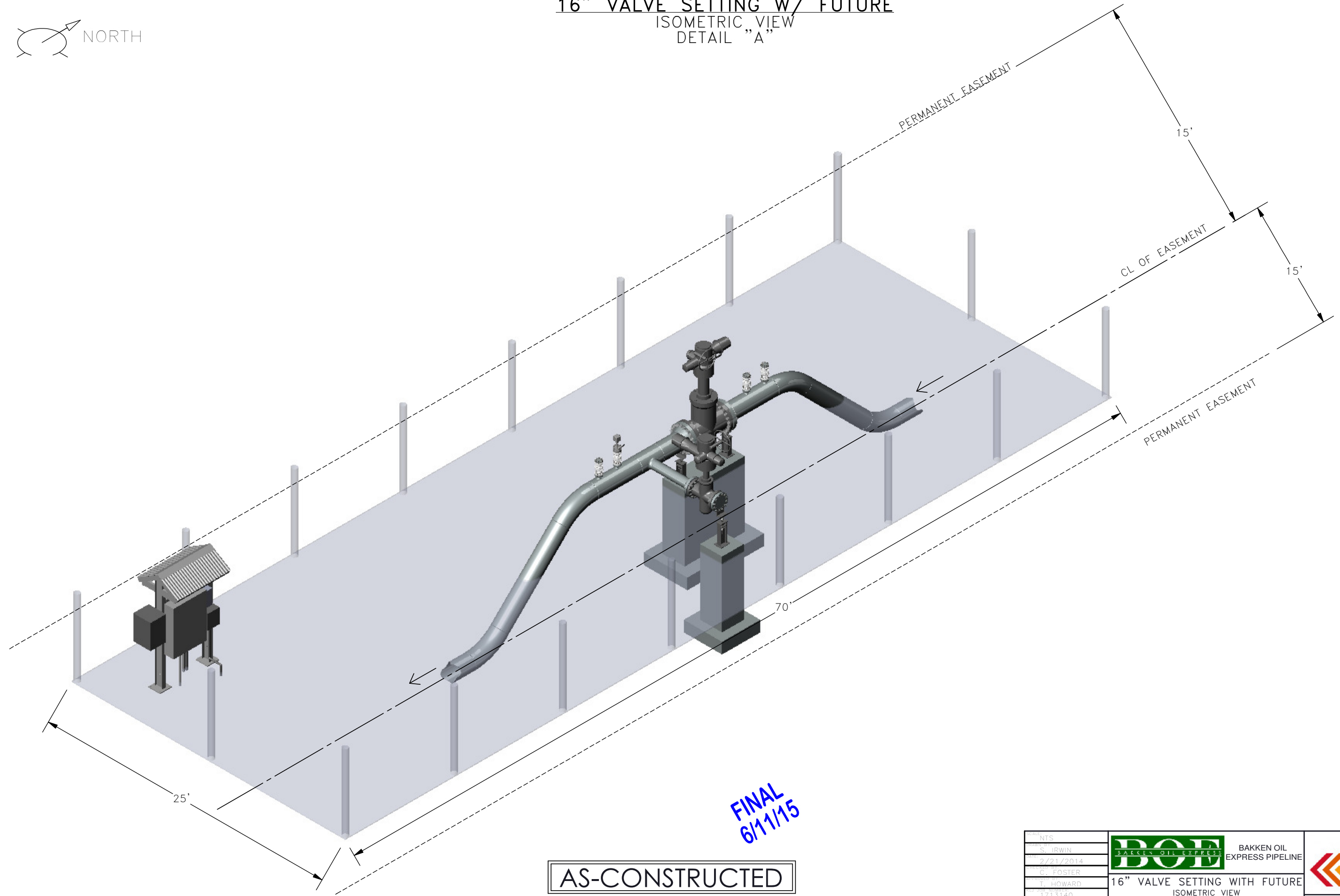
AS-CONSTRUCTED

FINAL
 6/11/15

SCALE: NTS	 BAKKEN OIL EXPRESS PIPELINE	 4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
DATE: 2/21/2014		
BY: E. FOSTER		
BY: T. HOWARD		
PROJECT: 1713140		
95	16" VALVE SETTING WITH FUTURE PLAN & PROFILE VIEW STARK & DUNN COUNTY, NORTH DAKOTA	



16" VALVE SETTING W/ FUTURE ISOMETRIC VIEW DETAIL "A"



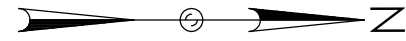
FINAL
6/11/15

AS-CONSTRUCTED

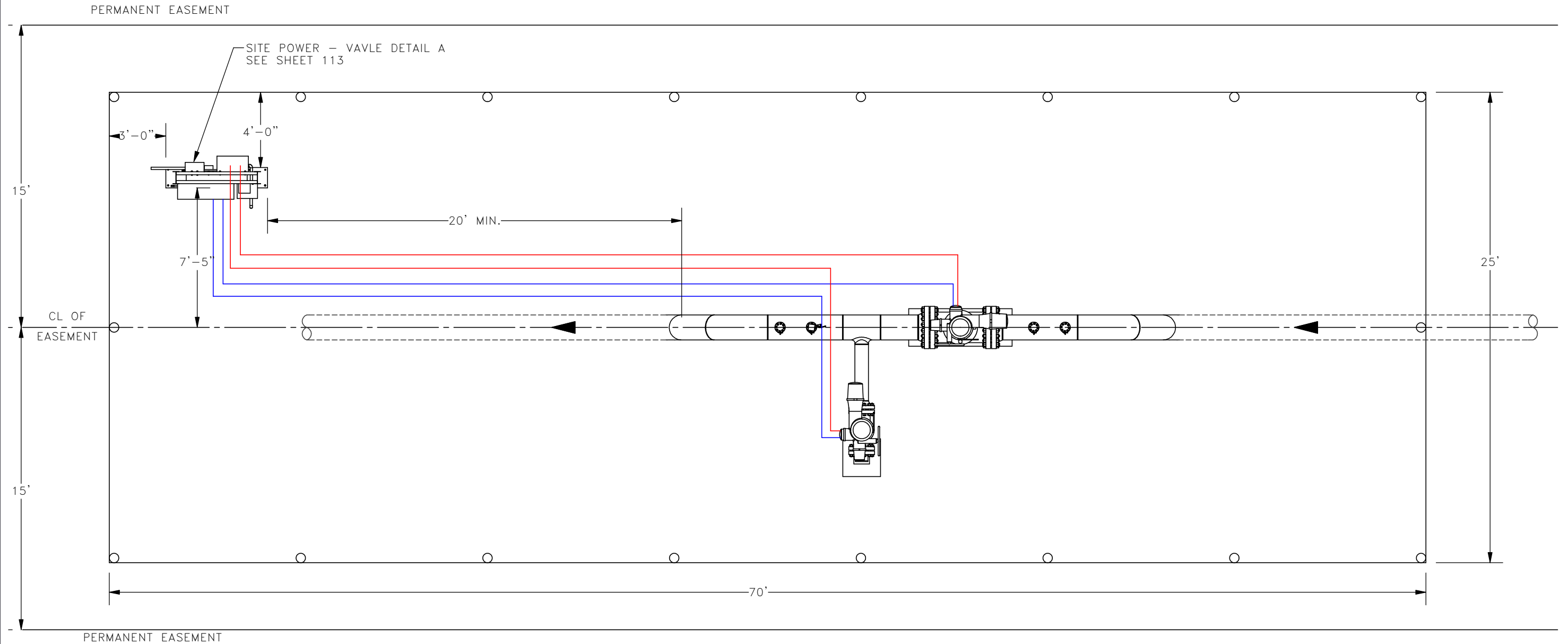
DATE: NTS		BAKKEN OIL EXPRESS PIPELINE	
BY: S. IRWIN			
DATE: 2/21/2014			
BY: C. FOSTER			
BY: T. HOWARD			
PROJECT: 1713140	16" VALVE SETTING WITH FUTURE ISOMETRIC VIEW		4585 Coleman Street Bismarck, ND 58503
SCALE: 3/8"	96	STARK & DUNN COUNTY, NORTH DAKOTA	© KLJ 2014

16" VALVE SETTING W/ FUTURE

PLAN VIEW
DETAIL "A"





— 1 1/2" RMC (POWER)
— 1 1/4" RMC (COMMUNICATION)

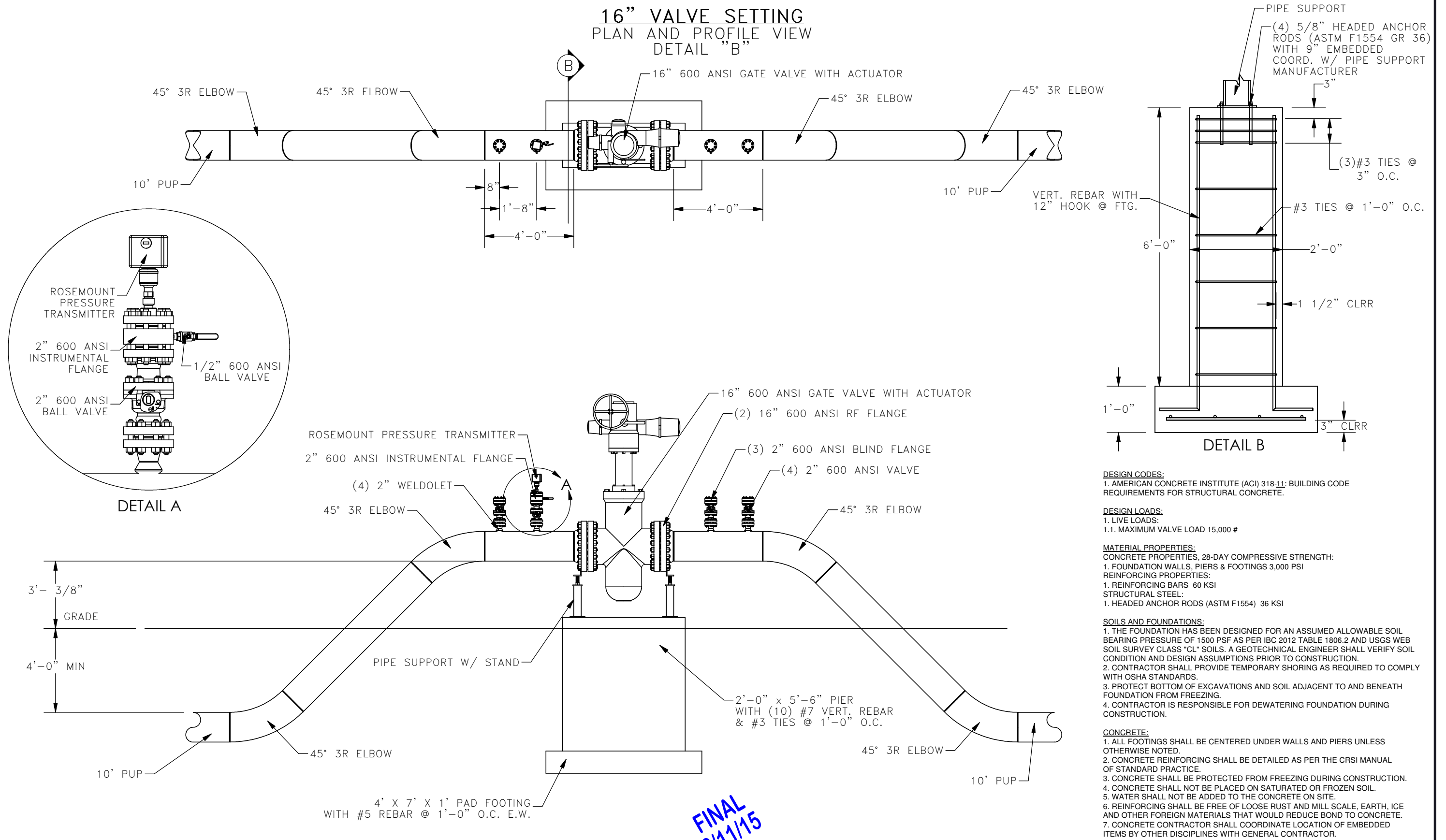


FINAL
6/11/15

AS-CONSTRUCTED

SCALE: NTS	 BAKKEN OIL EXPRESS PIPELINE	
DESIGNED BY: S. IRWIN		
DATE: 2/21/2014		
CHECKED BY: FOSTER		
PROJECT: T. HOWARD		
FILE NO: 1713140	16" VALVE SETTING WITH FUTURE PLAN VIEW	4585 Coleman Street Bismarck, ND 58503
DATE: 07	STARK & DUNN COUNTY, NORTH DAKOTA	© KLJ 2014

**16" VALVE SETTING
PLAN AND PROFILE VIEW
DETAIL "B"**



- DESIGN CODES:**
1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- DESIGN LOADS:**
1. LIVE LOADS:
1.1. MAXIMUM VALVE LOAD 15,000 #
- MATERIAL PROPERTIES:**
CONCRETE PROPERTIES, 28-DAY COMPRESSIVE STRENGTH:
1. FOUNDATION WALLS, PIERS & FOOTINGS 3,000 PSI
REINFORCING PROPERTIES:
1. REINFORCING BARS 60 KSI
STRUCTURAL STEEL:
1. HEADED ANCHOR RODS (ASTM F1554) 36 KSI
- SOILS AND FOUNDATIONS:**
1. THE FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AS PER IBC 2012 TABLE 1806.2 AND USGS WEB SOIL SURVEY CLASS "CL" SOILS. A GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITION AND DESIGN ASSUMPTIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
3. PROTECT BOTTOM OF EXCAVATIONS AND SOIL ADJACENT TO AND BENEATH FOUNDATION FROM FREEZING.
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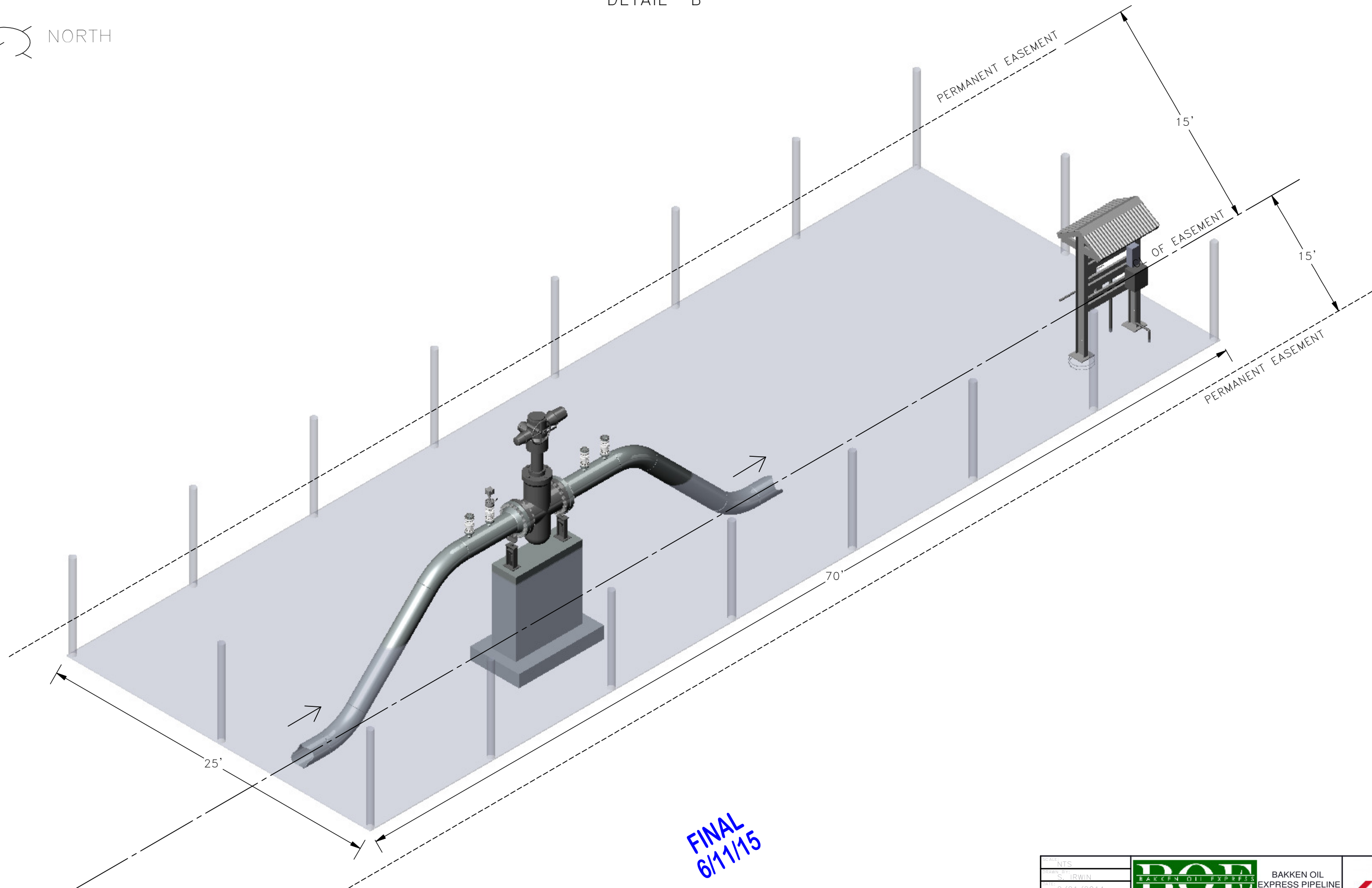
NOTE:
SUB-ASSEMBLY PRE-FABRICATION BY THIRD PARTY. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUB-ASSEMBLIES.

AS-CONSTRUCTED

**FINAL
6/11/15**

SCALE: NTS		BAKKEN OIL EXPRESS PIPELINE	
DATE: 2/21/2014			
DESIGNED BY: EDSTER	16" VALVE SETTING PLAN & PROFILE VIEW STARK & DUNN COUNTY, NORTH DAKOTA		
CHECKED BY: HOWARD			
PROJECT NO: 1713140	4585 Coleman Street Bismarck, ND 58503		
DATE: 08	© KLJ 2014		

16" VALVE SETTING
ISOMETRIC VIEW
DETAIL "B"

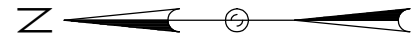


FINAL
6/11/15

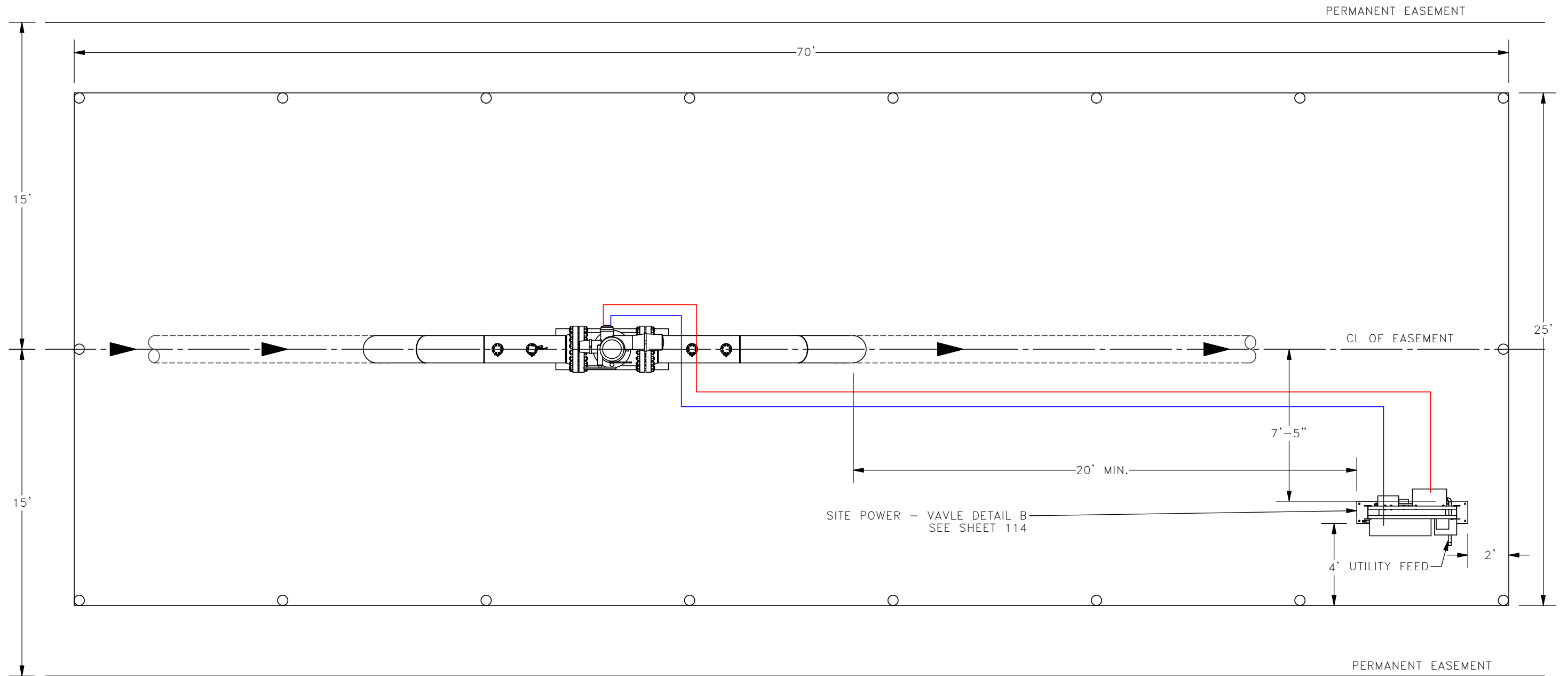
AS-CONSTRUCTED

SCALE: NTS	 BAKKEN OIL EXPRESS PIPELINE	
DATE: 2/21/2014		
DESIGNED BY: FOSTER	16" VALVE SETTING ISOMETRIC VIEW STARK & DUNN COUNTY, NORTH DAKOTA	
CHECKED BY: HOWARD		
PROJECT NO: 1713140		
DATE: 6/11/15	4585 Coleman Street Bismarck, ND 58503	© KLJ 2014

16" VALVE SETTING
 PLAN VIEW
 DETAIL "B"



— 1 1/2" RMC (POWER)
 — 1 1/4" RMC (COMMUNICATION)

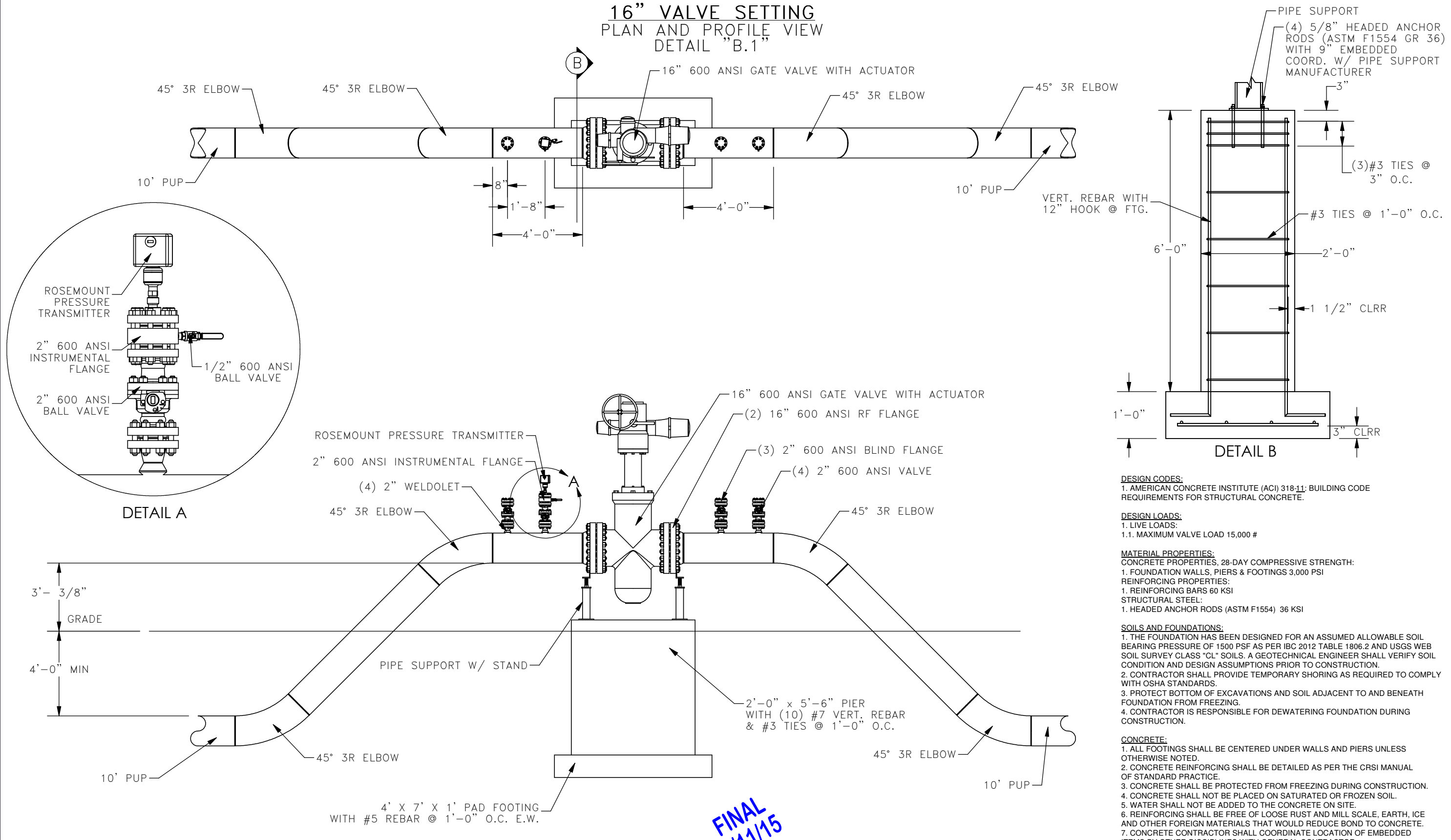


FINAL
 6/11/15

AS-CONSTRUCTED

SCALE: NTS	 BAKKEN OIL EXPRESS PIPELINE	
DATE: 2/21/2014		
DESIGNER: G. EDSTER	16" VALVE SETTING PLAN VIEW STARK & DUNN COUNTY, NORTH DAKOTA	
CLIENT: T. HOWARD		
PROJECT: 1713140	4585 Coleman Street Bismarck, ND 58503 <small>© KLJ 2014</small>	
SCALE: 100		

16" VALVE SETTING
PLAN AND PROFILE VIEW
DETAIL "B.1"



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 1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- DESIGN LOADS:**
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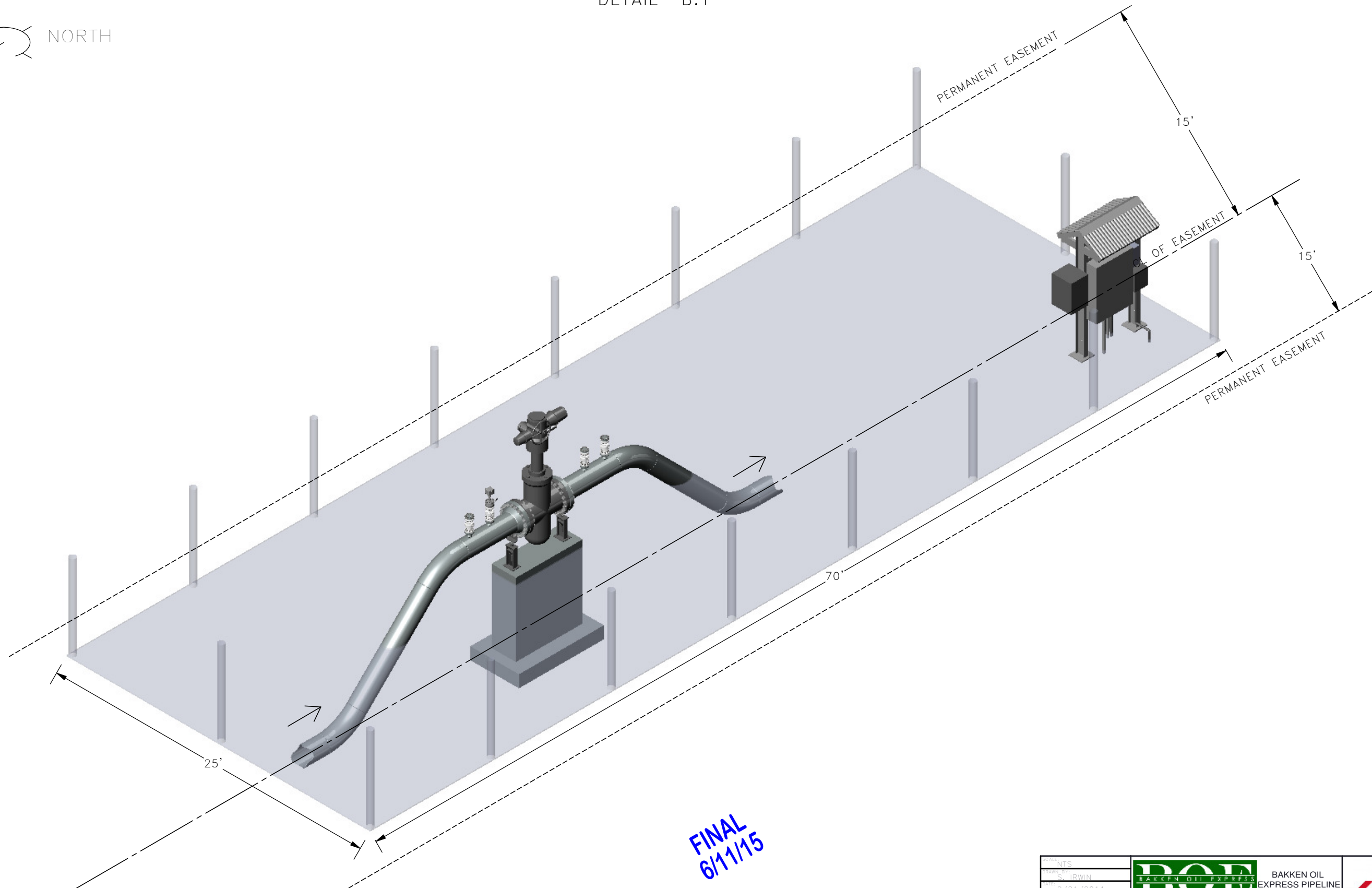
NOTE:
 SUB-ASSEMBLY PRE-FABRICATION BY THIRD PARTY. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUB-ASSEMBLIES.

AS-CONSTRUCTED

FINAL
6/11/15

SCALE: NTS	 BAKKEN OIL EXPRESS PIPELINE	 4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
DESIGNED BY: S. IRWIN		
DATE: 2/21/2014		
DRAWN BY: P. EDSTER		
CHECKED BY: T. HOWARD		
PROJECT NO: 1713140	16" VALVE SETTING PLAN & PROFILE VIEW STARK & DUNN COUNTY, NORTH DAKOTA	

16" VALVE SETTING
ISOMETRIC VIEW
DETAIL "B.1"



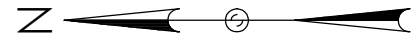
FINAL
6/11/15

AS-CONSTRUCTED

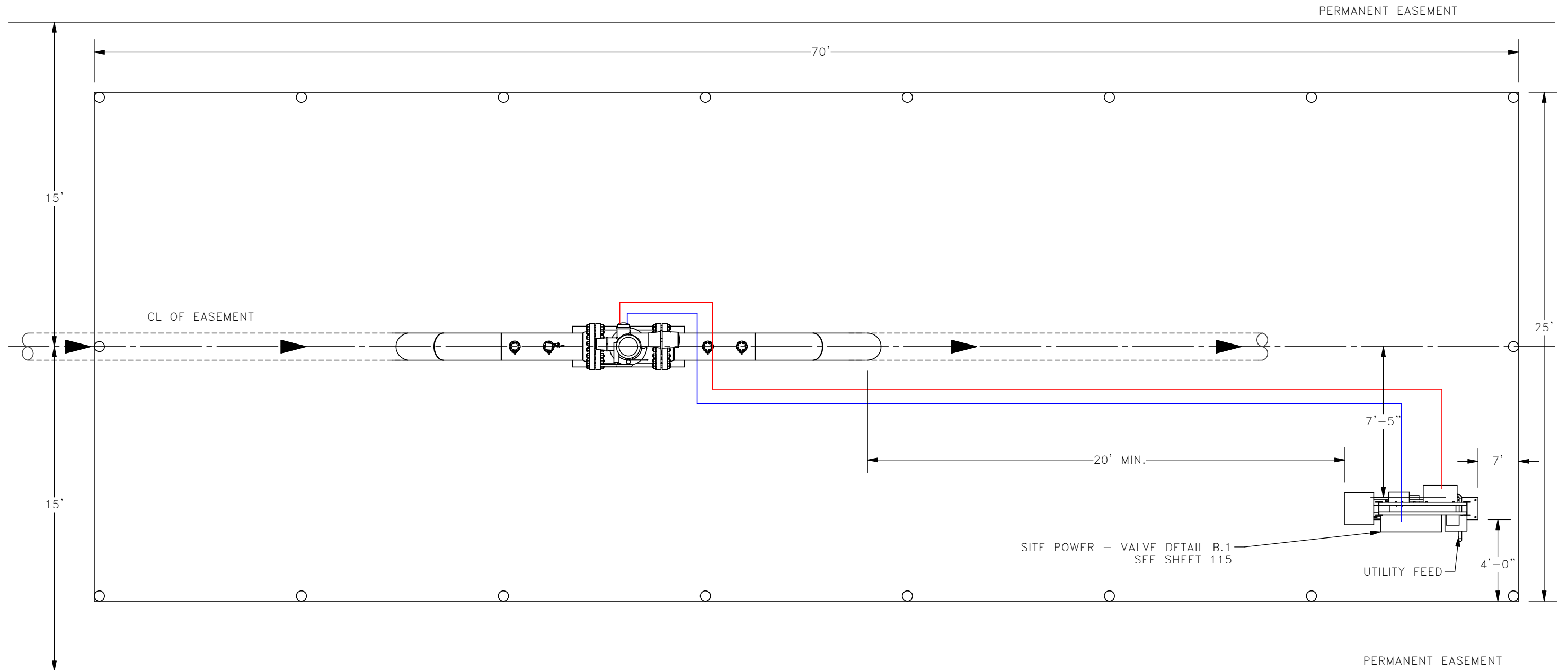
SCALE: NTS		
DATE: 2/21/2014		
DESIGNER: EOSTER	16" VALVE SETTING ISOMETRIC VIEW STARK & DUNN COUNTY, NORTH DAKOTA	4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
CLIENT: HOWARD		
PROJECT: 1713140		
REVISION: 102		

16" VALVE SETTING

PLAN VIEW
DETAIL "B.1"



— 1 1/2" RMC (POWER)
— 1 1/4" RMC (COMMUNICATION)

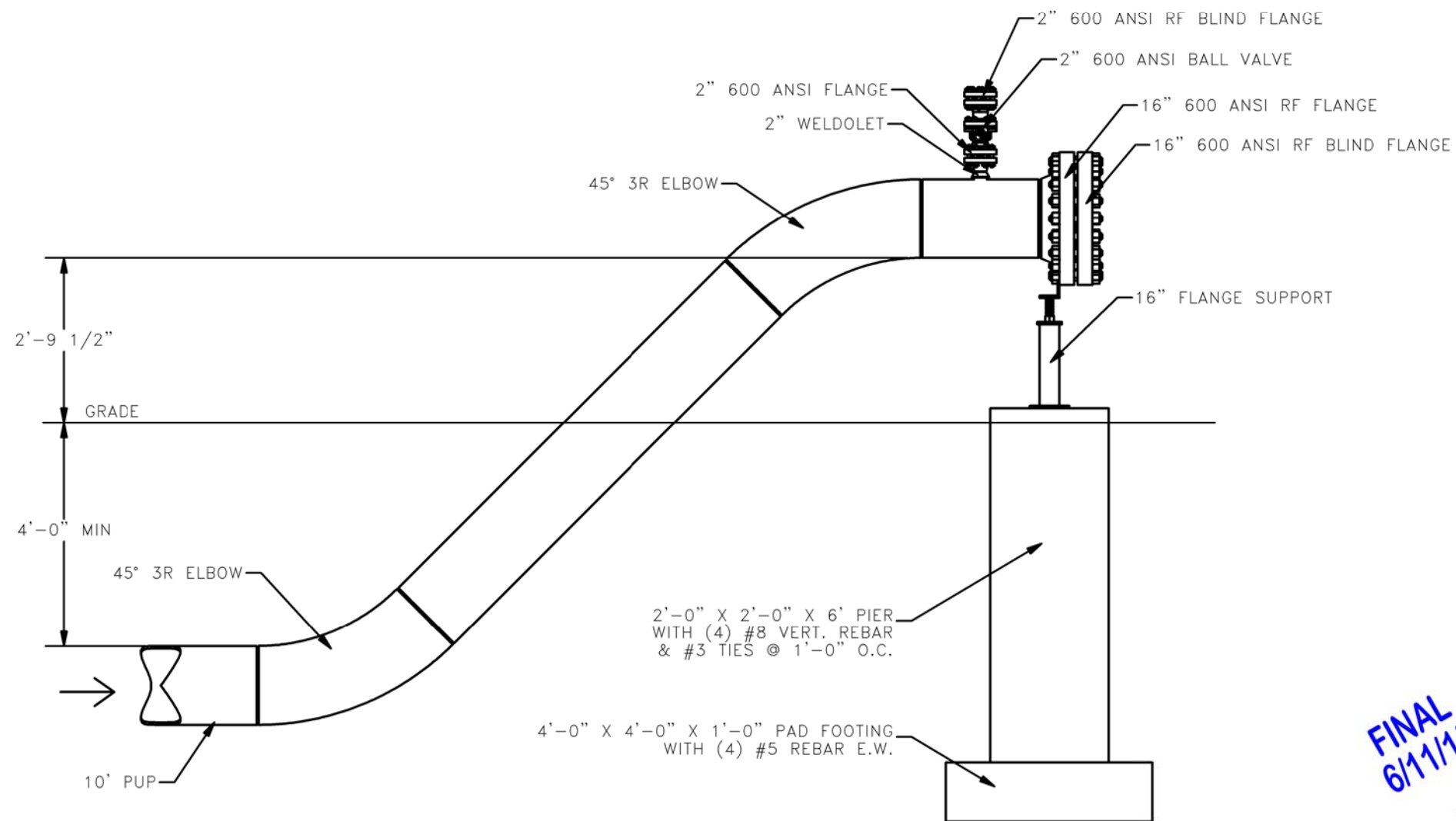
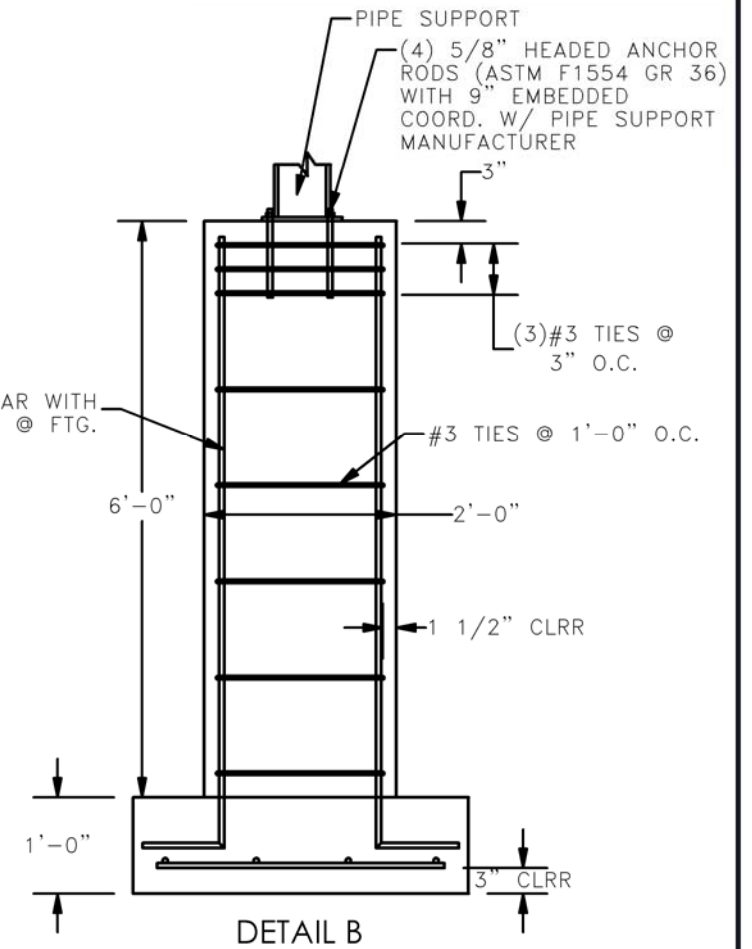
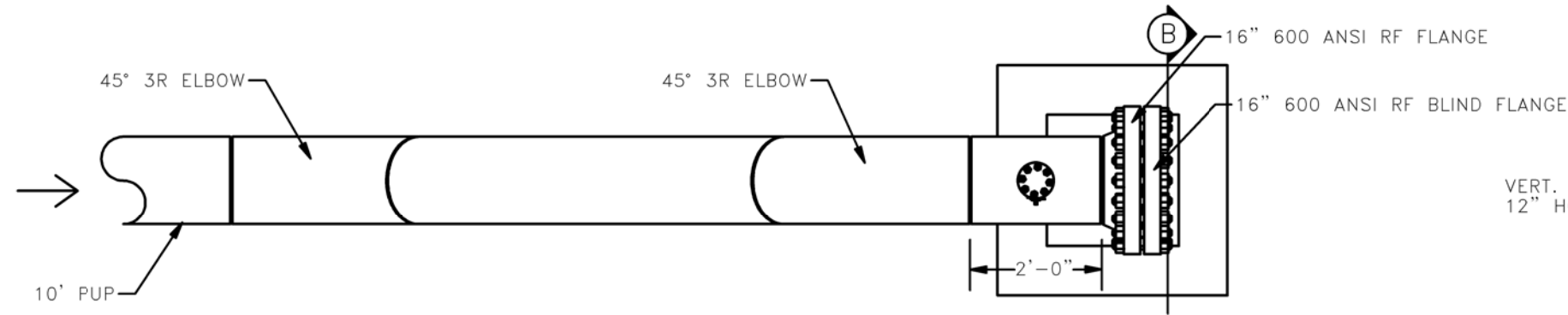


FINAL
6/11/15

AS-CONSTRUCTED

SCALE: NTS		BAKKEN OIL EXPRESS PIPELINE	
DATE: 2/21/2014			
DESIGNER: G. EDSTER	16" VALVE SETTING PLAN VIEW STARK & DUNN COUNTY, NORTH DAKOTA		
CHECKER: T. HOWARD			
PROJECT NO: 1713140	10.3	4585 Coleman Street Bismarck, ND 58503 © KLJ 2014	

16" RISER DETAIL
PLAN AND PROFILE VIEW
DETAIL "C"



- DESIGN CODES:**
1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
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FINAL
6/11/15

NOTE:
SUB-ASSEMBLY PRE-FABRICATION BY THIRD PARTY. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUB-ASSEMBLIES.

AS-CONSTRUCTED

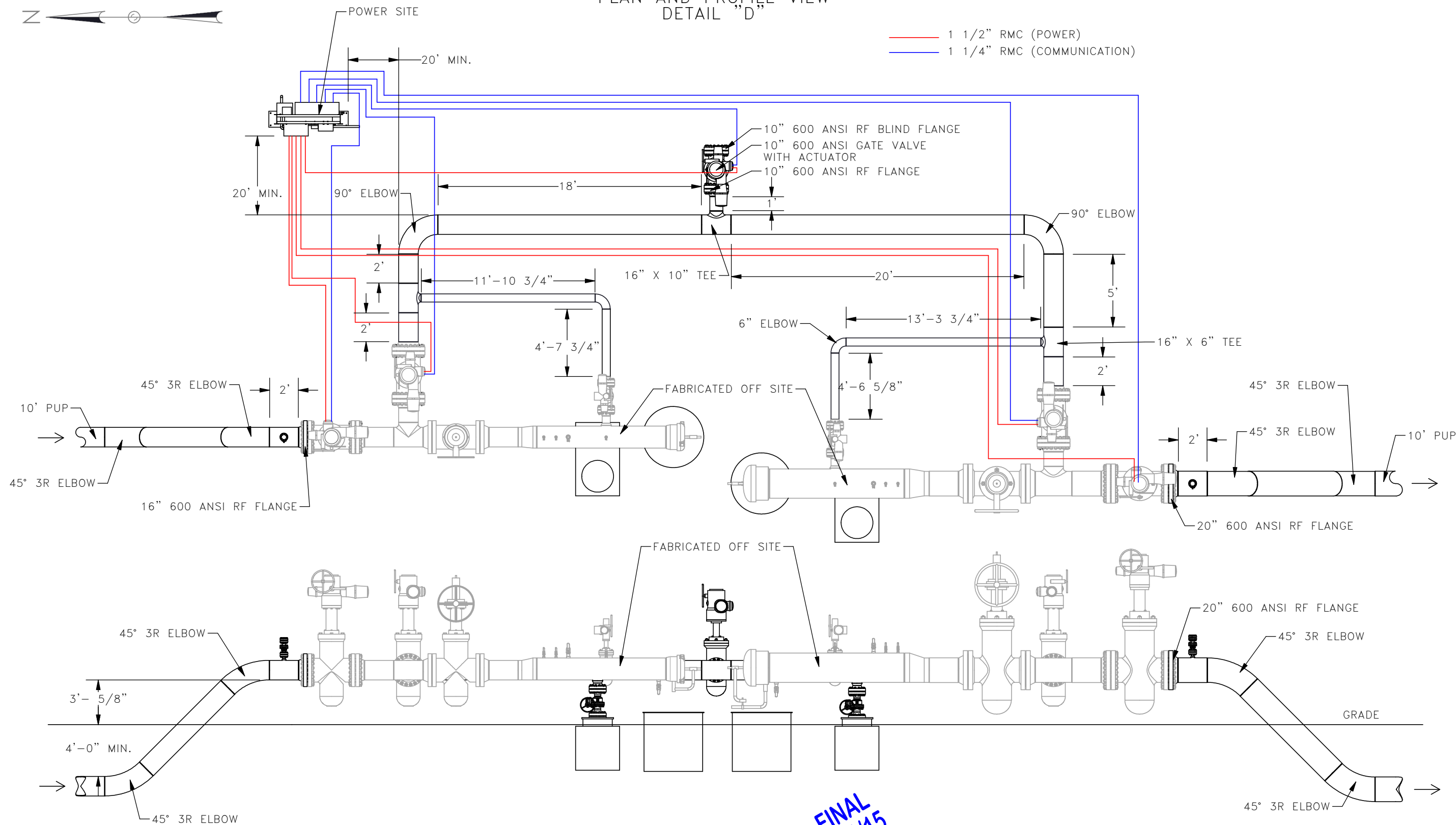
SCALE: NTS	BOE BAKKEN OIL EXPRESS	BAKKEN OIL EXPRESS PIPELINE	
DESIGNED BY: S. IRWIN			
DATE: 2/21/2014	16" RISER DETAIL PLAN & PROFILE VIEW		
DRAWN BY: EDOSTER			
CHECKED BY: T. HOWARD	STARK & DUNN COUNTY, NORTH DAKOTA		
PROJECT NUMBER: 1713140	4585 Coleman Street Bismarck, ND 58503		
REVISION: 104	© KLJ 2014		

20" X 16" TRUE OIL VALVE SETTING

PLAN AND PROFILE VIEW
DETAIL "D"



— 1 1/2" RMC (POWER)
— 1 1/4" RMC (COMMUNICATION)



NOTE:
SUB-ASSEMBLY PRE-FABRICATION BY
THIRD PARTY. CONTRACTOR RESPONSIBLE
FOR INSTALLATION OF SUB-ASSEMBLIES.

AS-CONSTRUCTED

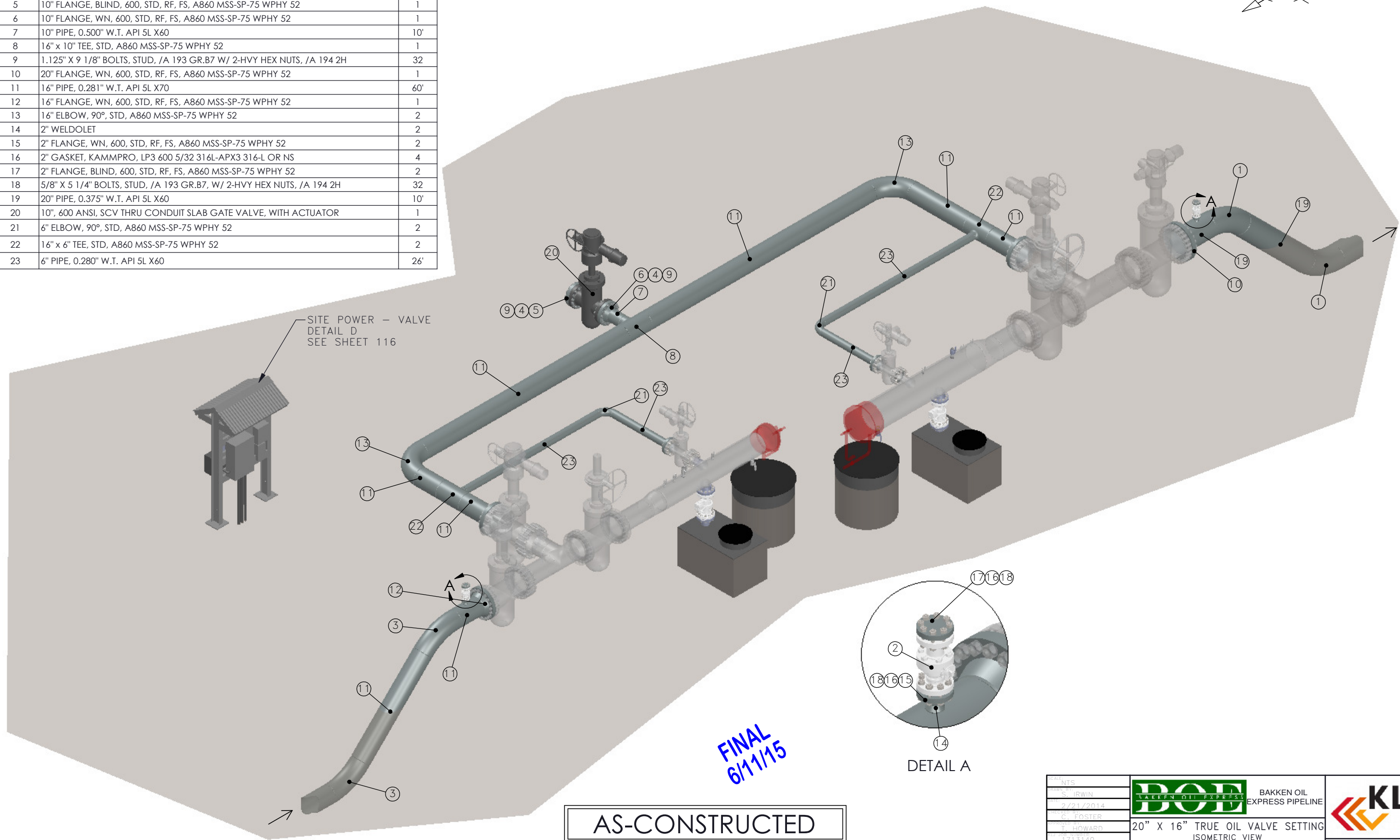
FINAL
6/11/15

DATE	NTS	 BAKKEN OIL EXPRESS PIPELINE	
BY	S. IRWIN		
DATE	2/21/2014		
BY	G. FOSTER		
DATE	T. HOWARD		
PROJECT NO.	1713140	20" X 16" TRUE OIL VALVE SETTING PLAN & PROFILE VIEW	4585 Coleman Street Bismarck, ND 58503
SCALE	10E	STARK & DUNN COUNTY, NORTH DAKOTA	© KLJ 2014

ITEM NO.	DESCRIPTION	QTY.
1	20" ELBOW, 45°, 3R, STD, A860 MSS-SP-75 WPHY 52	2
2	2" 600 ANSI, BALON BALL VALVE	2
3	16" ELBOW, 45°, 3R, STD, A860 MSS-SP-75 WPHY 52	2
4	10" GASKET, KAMMPRO, LP3 600 5/32 316L-APX3 316-L OR NS	2
5	10" FLANGE, BLIND, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	1
6	10" FLANGE, WN, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	1
7	10" PIPE, 0.500" W.T. API 5L X60	10'
8	16" x 10" TEE, STD, A860 MSS-SP-75 WPHY 52	1
9	1.125" X 9 1/8" BOLTS, STUD, /A 193 GR.B7 W/ 2-HVY HEX NUTS, /A 194 2H	32
10	20" FLANGE, WN, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	1
11	16" PIPE, 0.281" W.T. API 5L X70	60'
12	16" FLANGE, WN, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	1
13	16" ELBOW, 90°, STD, A860 MSS-SP-75 WPHY 52	2
14	2" WELDOLET	2
15	2" FLANGE, WN, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	2
16	2" GASKET, KAMMPRO, LP3 600 5/32 316L-APX3 316-L OR NS	4
17	2" FLANGE, BLIND, 600, STD, RF, FS, A860 MSS-SP-75 WPHY 52	2
18	5/8" X 5 1/4" BOLTS, STUD, /A 193 GR.B7, W/ 2-HVY HEX NUTS, /A 194 2H	32
19	20" PIPE, 0.375" W.T. API 5L X60	10'
20	10", 600 ANSI, SCV THRU CONDUIT SLAB GATE VALVE, WITH ACTUATOR	1
21	6" ELBOW, 90°, STD, A860 MSS-SP-75 WPHY 52	2
22	16" x 6" TEE, STD, A860 MSS-SP-75 WPHY 52	2
23	6" PIPE, 0.280" W.T. API 5L X60	26'

20" X 16" TRUE OIL VALVE SETTING

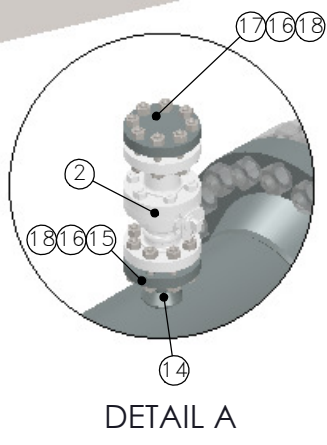
ISOMETRIC VIEW DETAIL "D"



SITE POWER -- VALVE
DETAIL D
SEE SHEET 116

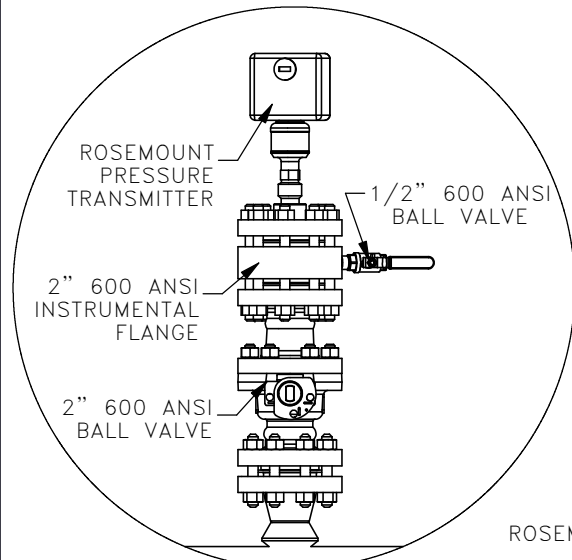
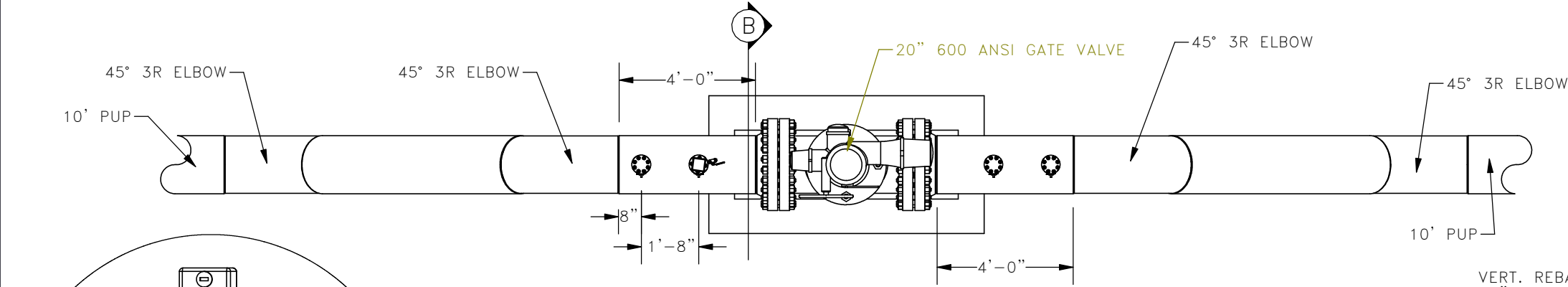
FINAL
6/11/15

AS-CONSTRUCTED

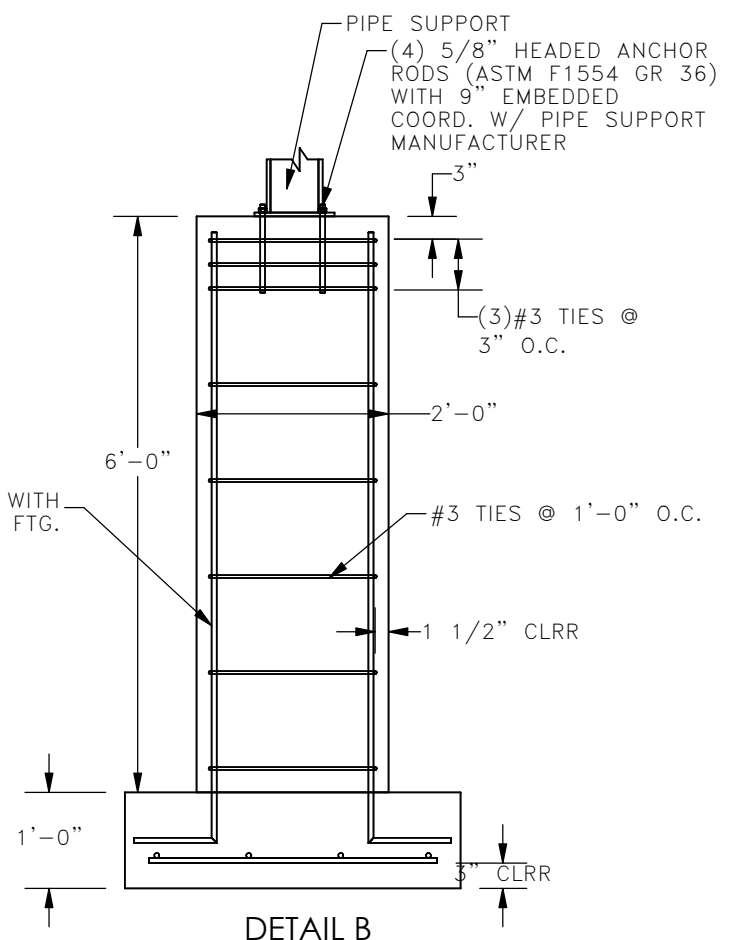
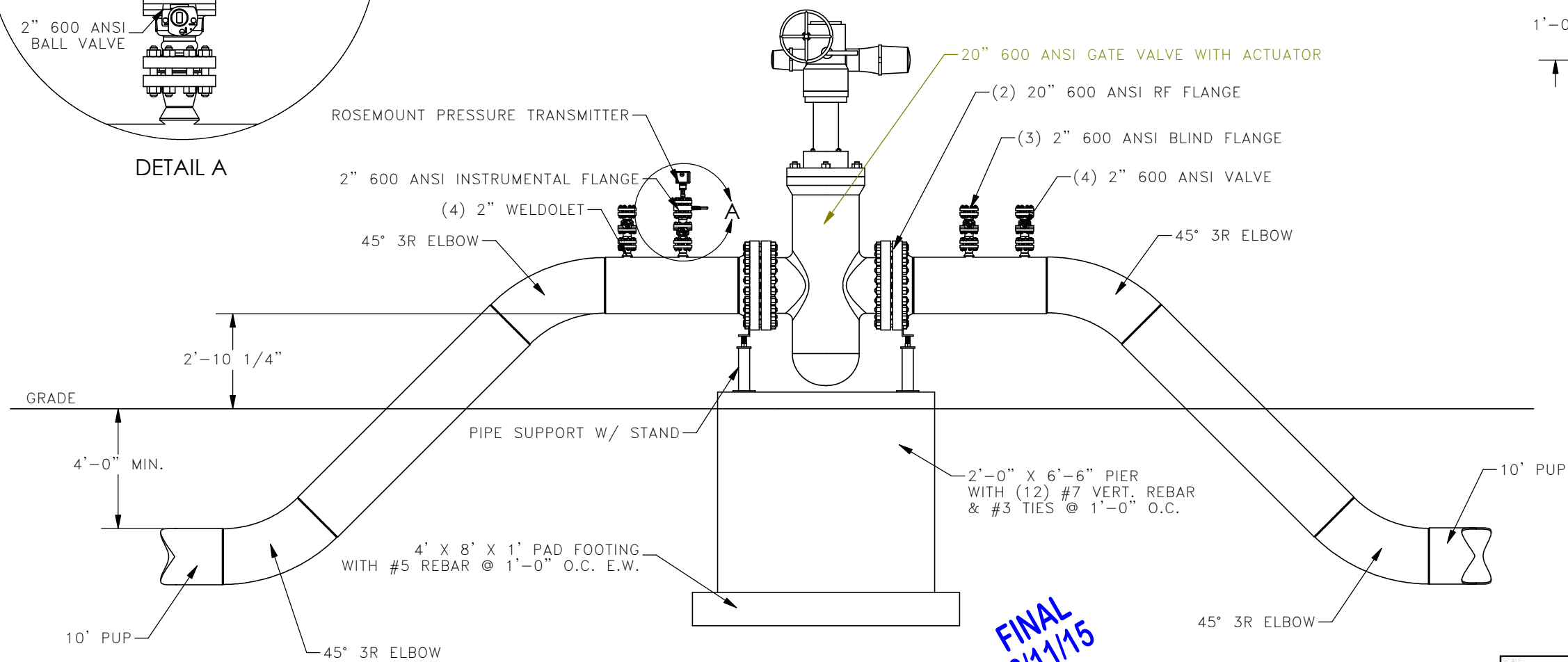


DATE: NTS DRAWN: S. IRWIN DATE: 2/21/2014 CHECKED: G. FOSTER DATE: 1/15/2014 PROJECT: 1713140	 BAKKEN OIL EXPRESS PIPELINE	 KLJ
20" X 16" TRUE OIL VALVE SETTING ISOMETRIC VIEW		4585 Coleman Street Bismarck, ND 58503 © KLJ 2014

**20" VALVE SETTING
PLAN AND PROFILE VIEW
DETAIL "E"**



DETAIL A



DETAIL B

- DESIGN CODES:**
1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- DESIGN LOADS:**
1. LIVE LOADS:
1.1. MAXIMUM VALVE LOAD 15,000 #
- MATERIAL PROPERTIES:**
CONCRETE PROPERTIES, 28-DAY COMPRESSIVE STRENGTH:
1. FOUNDATION WALLS, PIERS & FOOTINGS 3,000 PSI
REINFORCING PROPERTIES:
1. REINFORCING BARS 60 KSI
STRUCTURAL STEEL:
1. HEADED ANCHOR RODS (ASTM F1554) 36 KSI
- SOILS AND FOUNDATIONS:**
1. THE FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AS PER IBC 2012 TABLE 1806.2 AND USGS WEB SOIL SURVEY CLASS "CL" SOILS. A GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITION AND DESIGN ASSUMPTIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
3. PROTECT BOTTOM OF EXCAVATIONS AND SOIL ADJACENT TO AND BENEATH FOUNDATION FROM FREEZING.
4. CONTRACTOR IS RESPONSIBLE FOR DEWATERING FOUNDATION DURING CONSTRUCTION.
- CONCRETE:**
1. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS AND PIERS UNLESS OTHERWISE NOTED.
2. CONCRETE REINFORCING SHALL BE DETAILED AS PER THE CRSI MANUAL OF STANDARD PRACTICE.
3. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING CONSTRUCTION.
4. CONCRETE SHALL NOT BE PLACED ON SATURATED OR FROZEN SOIL.
5. WATER SHALL NOT BE ADDED TO THE CONCRETE ON SITE.
6. REINFORCING SHALL BE FREE OF LOOSE RUST AND MILL SCALE, EARTH, ICE AND OTHER FOREIGN MATERIALS THAT WOULD REDUCE BOND TO CONCRETE.
7. CONCRETE CONTRACTOR SHALL COORDINATE LOCATION OF EMBEDDED ITEMS BY OTHER DISCIPLINES WITH GENERAL CONTRACTOR.

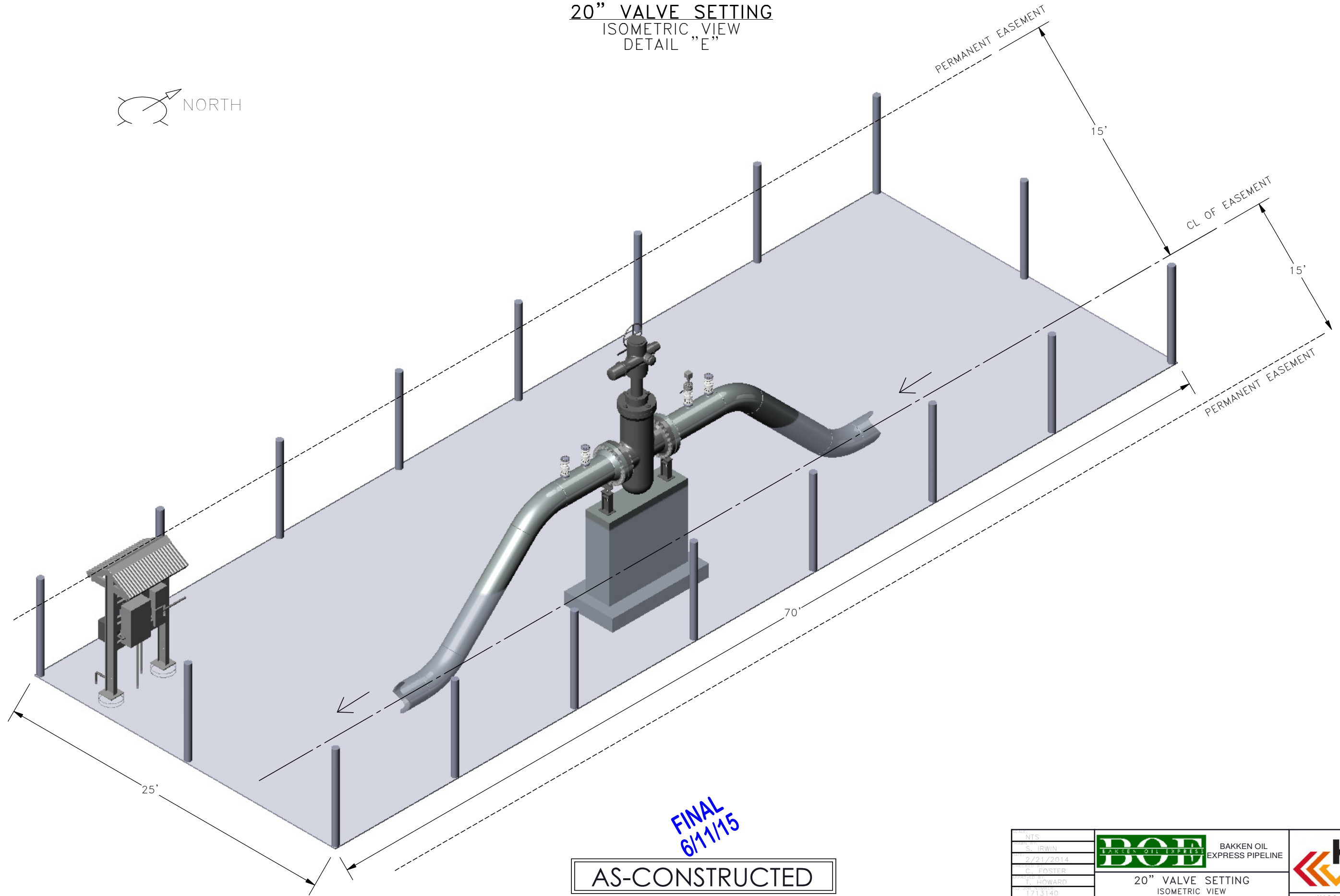
**FINAL
6/11/15**

AS-CONSTRUCTED

NOTE:
SUB-ASSEMBLY PRE-FABRICATION BY THIRD PARTY. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUB-ASSEMBLIES.

SCALE: NTS	BOE BAKKEN OIL EXPRESS PIPELINE	KLJ
DATE: 2/21/2014		
DESIGNED BY: E. FOSTER	20" VALVE SETTING PLAN & PROFILE VIEW	4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
CHECKED BY: T. HOWARD		
PROJECT NO: 1713140		
107	STARK & DUNN COUNTY, NORTH DAKOTA	

20" VALVE SETTING
ISOMETRIC VIEW
DETAIL "E"

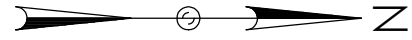


FINAL
6/11/15

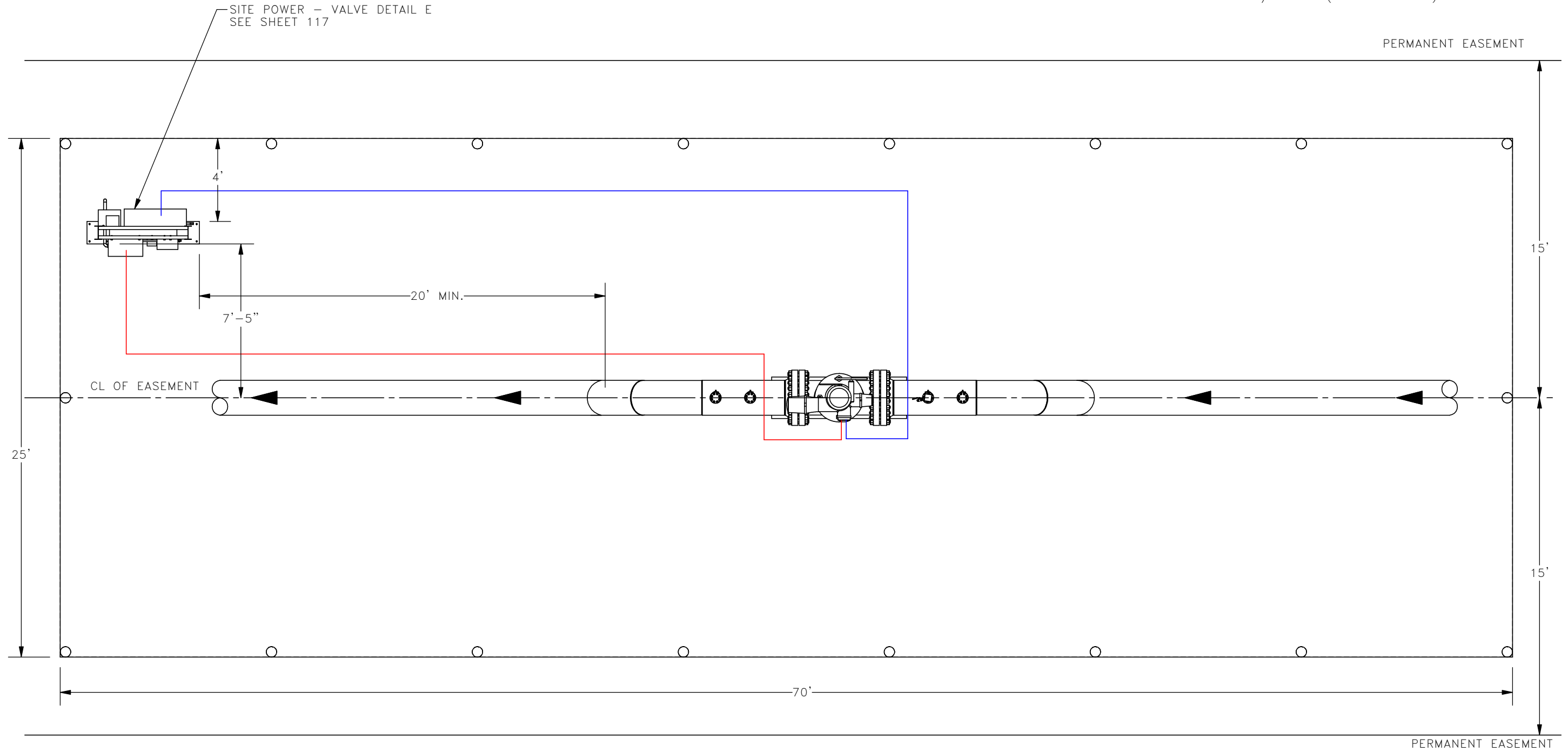
AS-CONSTRUCTED

NTS	 BAKKEN OIL EXPRESS PIPELINE	
S. IRWIN		
2/21/2014		
G. FOSTER		
T. HOWARD		
1713140	20" VALVE SETTING ISOMETRIC VIEW	4585 Coleman Street Bismarck, ND 58503
108	STARK & DUNN COUNTY, NORTH DAKOTA	© KLJ 2014

20" VALVE SETTING
 PLAN VIEW
 DETAIL "E"



— 1 1/2" RMC (POWER)
 — 1 1/4" RMC (COMMUNICATION)

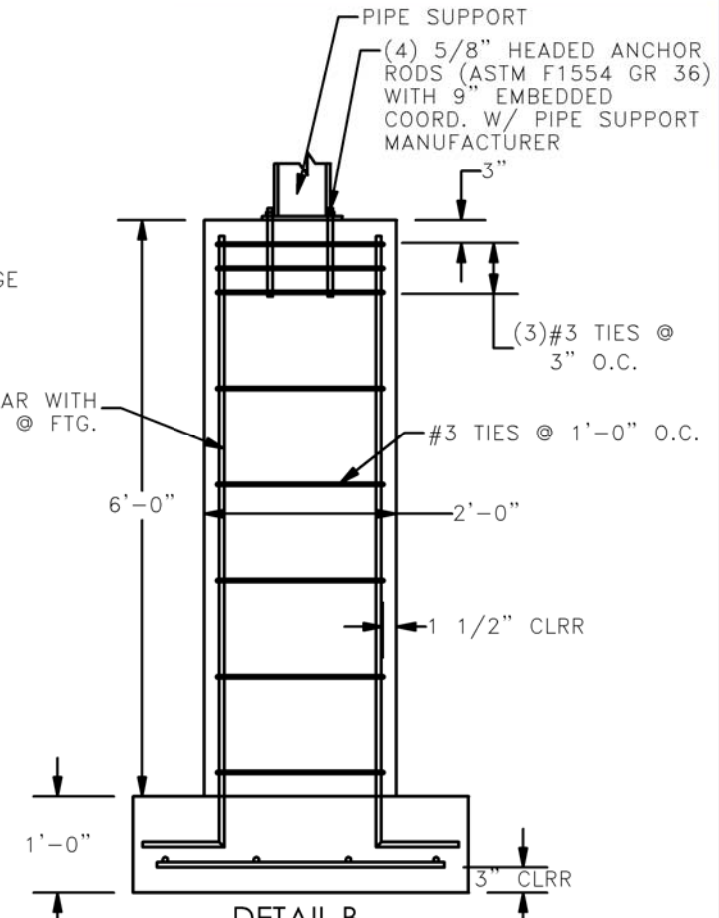
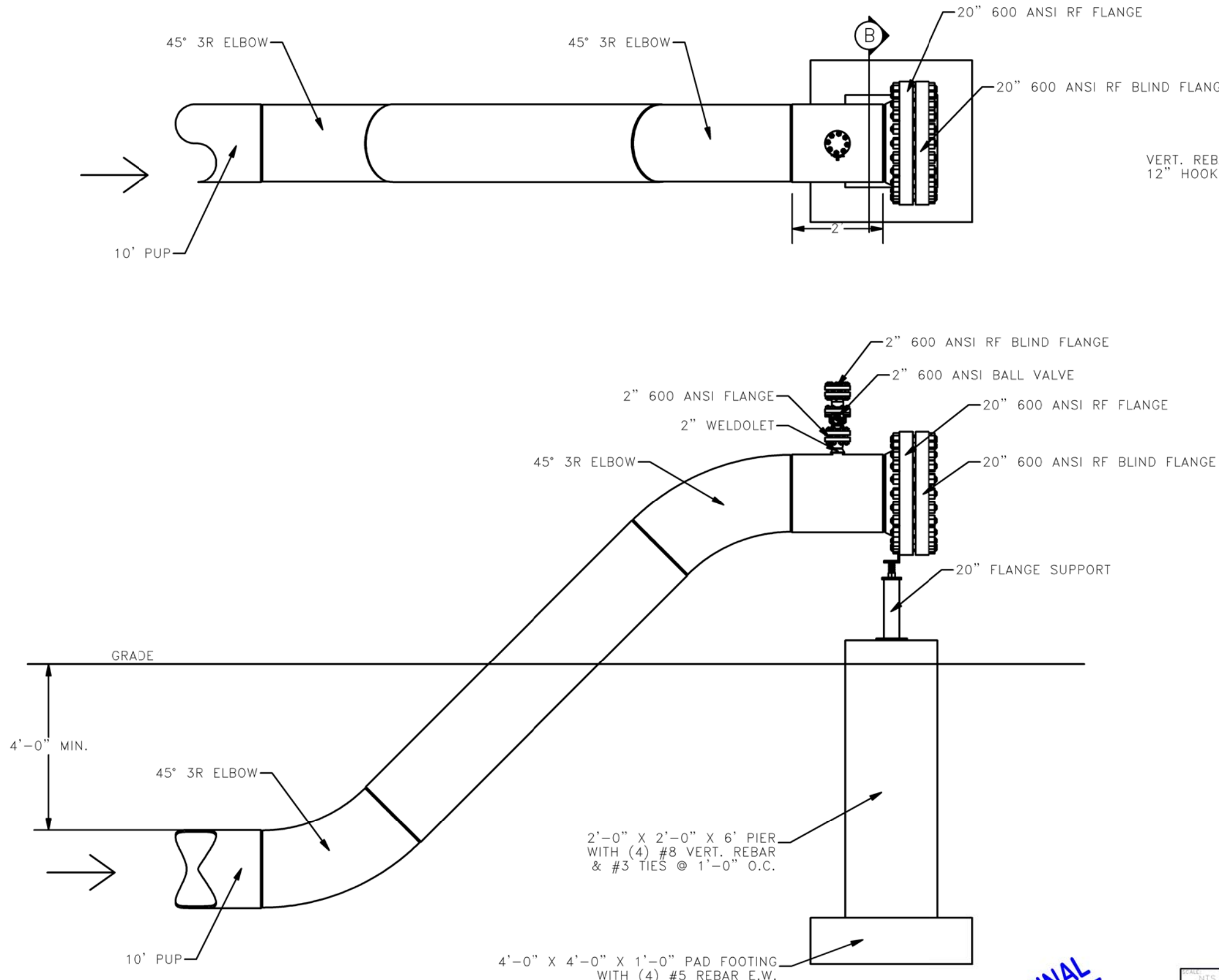


FINAL
 6/11/15

AS-CONSTRUCTED

DATE: NTS	 BAKKEN OIL EXPRESS PIPELINE	
BY: S. IRWIN		
DATE: 2/21/2014		
BY: G. FOSTER		
BY: T. HOWARD		
PROJECT: 1713140	20" VALVE SETTING PLAN VIEW	4585 Coleman Street Bismarck, ND 58503
SCALE: 1"=100'	STARK & DUNN COUNTY, NORTH DAKOTA	©KLJ 2014

20" RISER DETAIL
PLAN AND PROFILE VIEW
DETAIL "F"





- DESIGN CODES:**
1. AMERICAN CONCRETE INSTITUTE (ACI) 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- DESIGN LOADS:**
1. LIVE LOADS:
1.1. MAXIMUM VALVE LOAD 15,000 #
- MATERIAL PROPERTIES:**
CONCRETE PROPERTIES, 28-DAY COMPRESSIVE STRENGTH:
1. FOUNDATION WALLS, PIERS & FOOTINGS 3,000 PSI
REINFORCING PROPERTIES:
1. REINFORCING BARS 60 KSI
STRUCTURAL STEEL:
1. HEADED ANCHOR RODS (ASTM F1554) 36 KSI
- SOILS AND FOUNDATIONS:**
1. THE FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AS PER IBC 2012 TABLE 1806.2 AND USGS WEB SOIL SURVEY CLASS "CL" SOILS. A GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITION AND DESIGN ASSUMPTIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
3. PROTECT BOTTOM OF EXCAVATIONS AND SOIL ADJACENT TO AND BENEATH FOUNDATION FROM FREEZING.
4. CONTRACTOR IS RESPONSIBLE FOR DEWATERING FOUNDATION DURING CONSTRUCTION.
- CONCRETE:**
1. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS AND PIERS UNLESS OTHERWISE NOTED.
2. CONCRETE REINFORCING SHALL BE DETAILED AS PER THE CRSI MANUAL OF STANDARD PRACTICE.
3. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING CONSTRUCTION.
4. CONCRETE SHALL NOT BE PLACED ON SATURATED OR FROZEN SOIL.
5. WATER SHALL NOT BE ADDED TO THE CONCRETE ON SITE.
6. REINFORCING SHALL BE FREE OF LOOSE RUST AND MILL SCALE, EARTH, ICE AND OTHER FOREIGN MATERIALS THAT WOULD REDUCE BOND TO CONCRETE.
7. CONCRETE CONTRACTOR SHALL COORDINATE LOCATION OF EMBEDDED ITEMS BY OTHER DISCIPLINES WITH GENERAL CONTRACTOR.

NOTE:
SUB-ASSEMBLY PRE-FABRICATION BY
THIRD PARTY. CONTRACTOR RESPONSIBLE
FOR INSTALLATION OF SUB-ASSEMBLIES.

AS-CONSTRUCTED

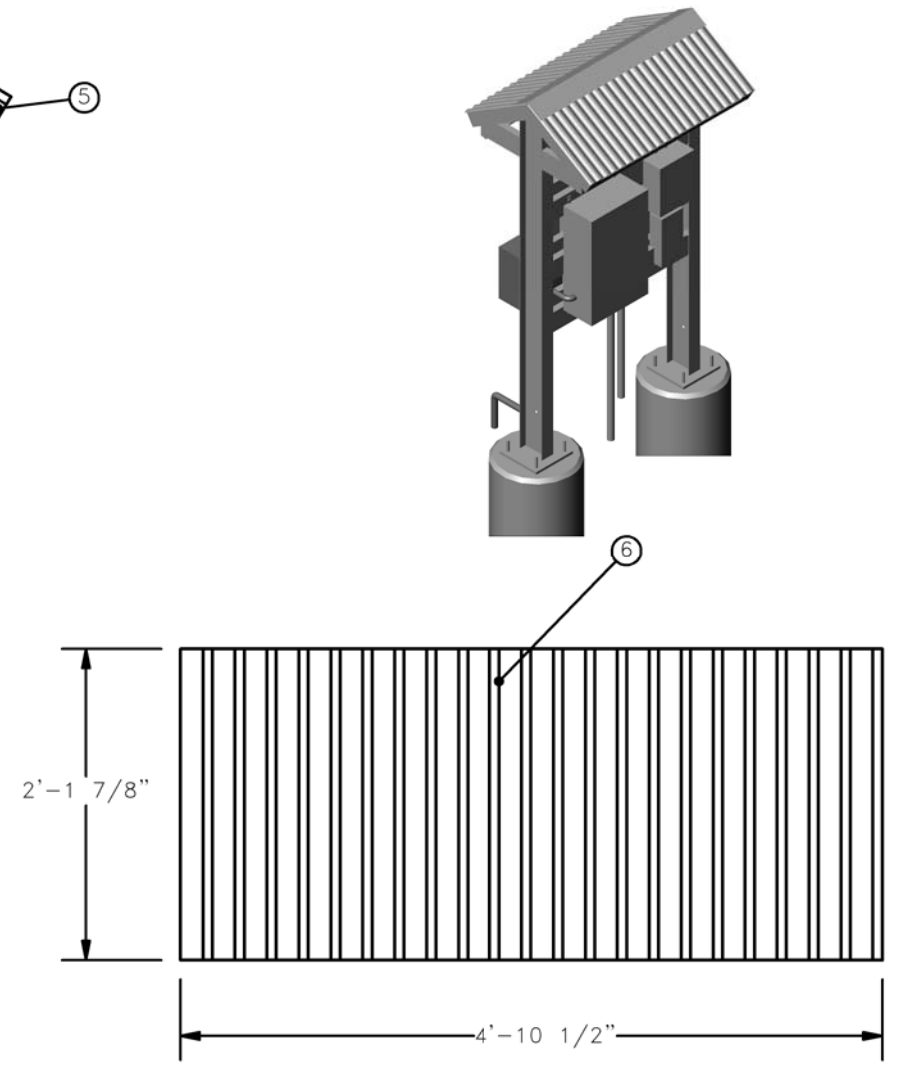
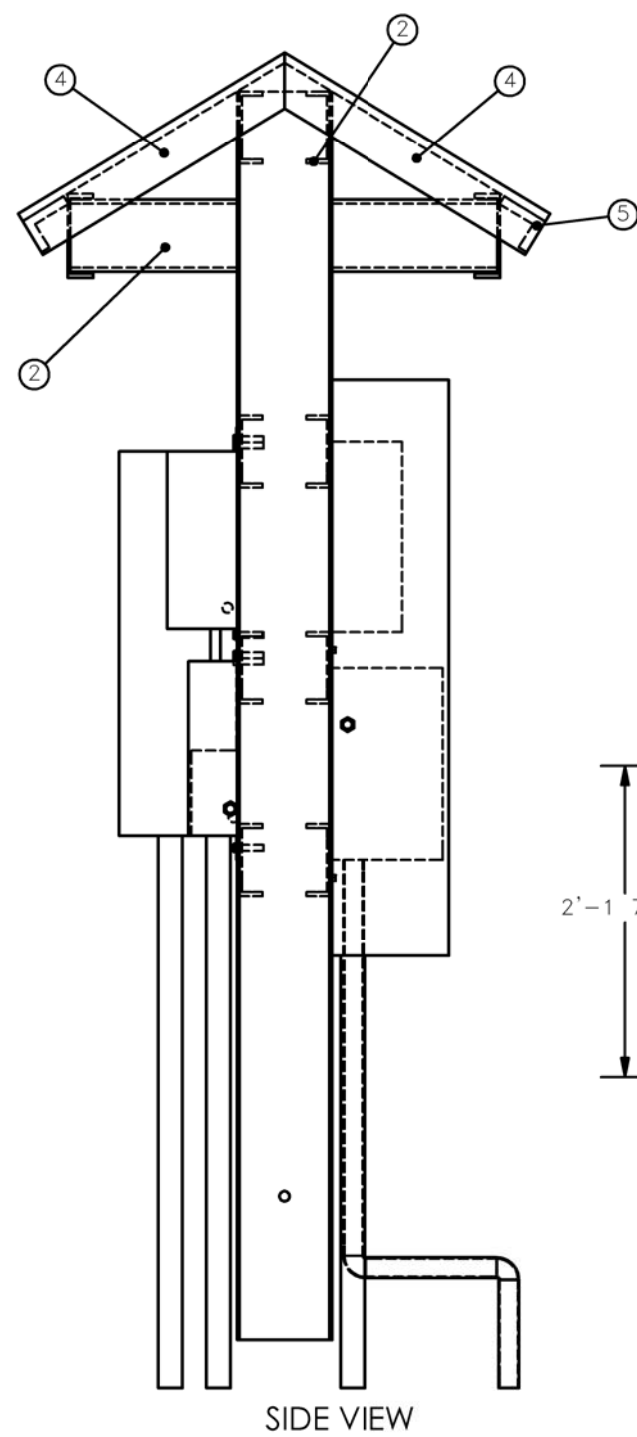
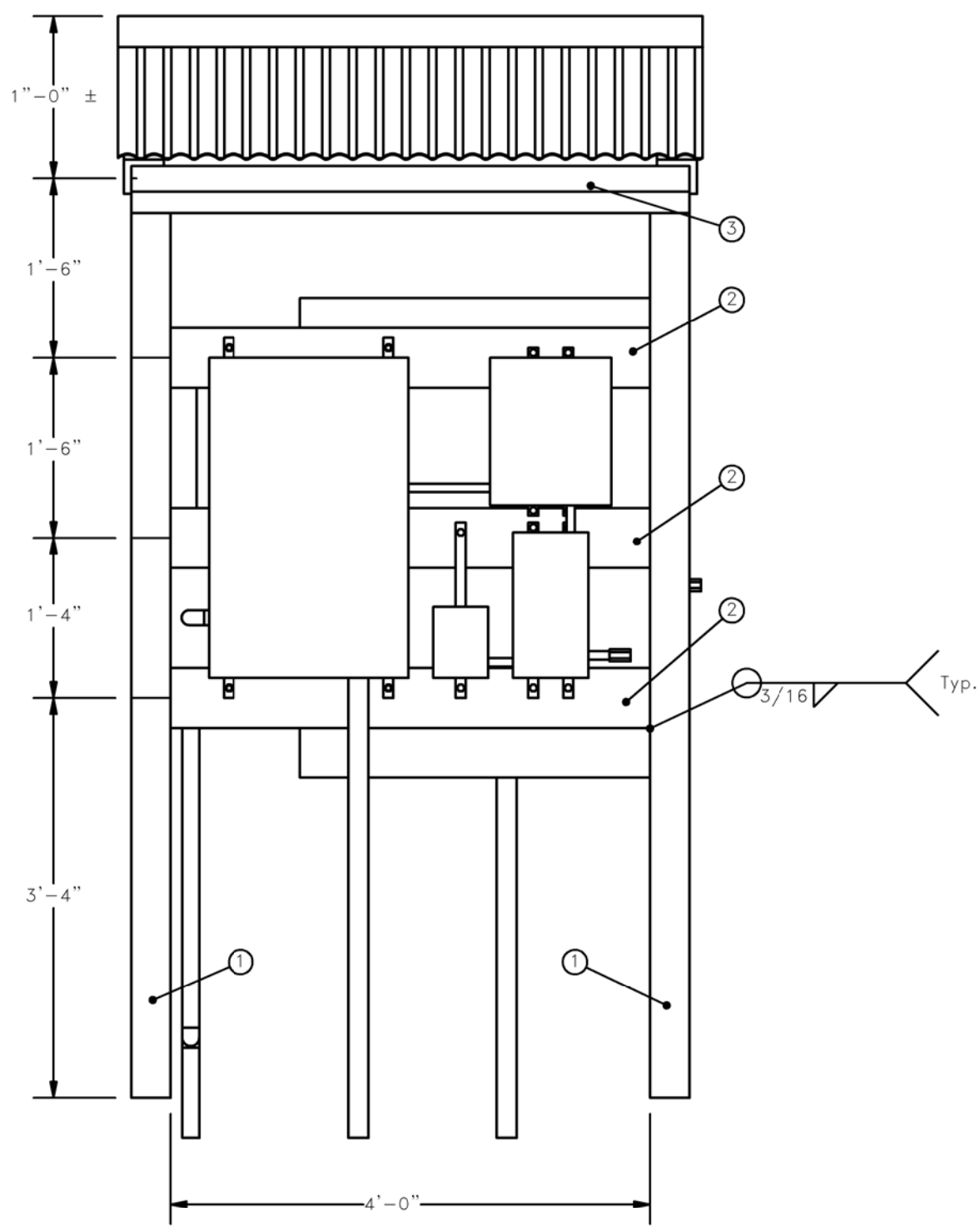
FINAL
6/11/15

SCALE: NTS	 BAKKEN OIL EXPRESS EXPRESS PIPELINE	
DRAWN BY: S. IRWIN DATE: 2/21/2014 CHECKED BY: J. FOSTER APPROVED BY: T. HOWARD PLOT JOB NUMBER: 1713140 REVISION: 1 TO		
20" RISER DETAIL PLAN & PROFILE VIEW		4585 Coleman Street Bismarck, ND 58503 © KLJ 2014

SITE POWER
FRAMING MOUNT PLAN AND PROFILE VIEW
DETAIL "A"

Structural Members	
1	W8X10
2	C6X8.2
3	C7X9.8
4	L4X4X3/4
5	L3X4X3/4
6	2 1/2" CORRUGATED METAL ROOF AND RIDGE

* See manufactures spec for attachment pattern



CORRUGATED METAL ROOF

FINAL
6/11/15

AS-CONSTRUCTED

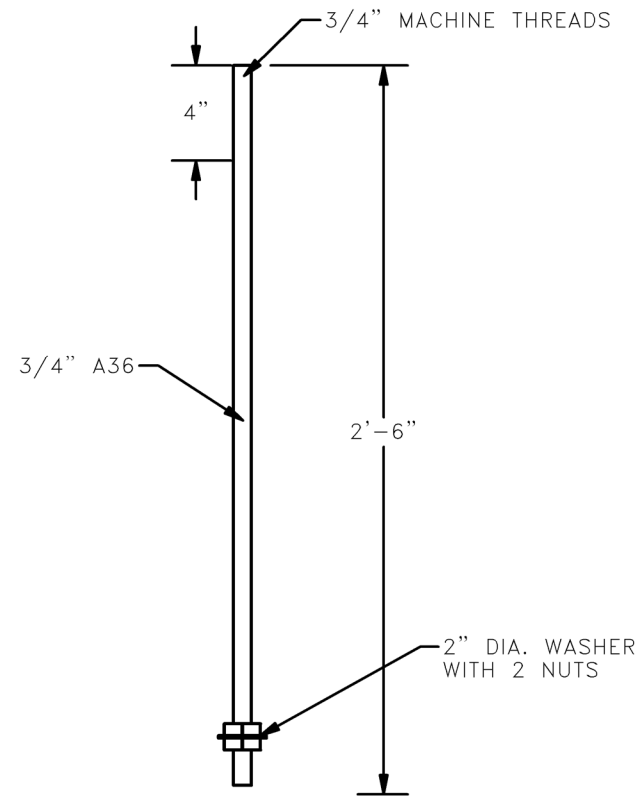
SCALE: NTS DRAWN BY: S. IRWIN DATE: 2/21/2014 CHECKED BY: C. FOSTER APPROVED BY: T. HOWARD KL JOB NUMBER: 1713140 LAYOUT: 111	 BAKKEN OIL EXPRESS BAKKEN OIL EXPRESS PIPELINE	 4585 Coleman Street Bismarck, ND 58503 <small>© KLJ 2014</small>
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SITE POWER
FRAMING MOUNT PLAN & PROFILE VIEW
STARK & DUNN COUNTY, NORTH DAKOTA

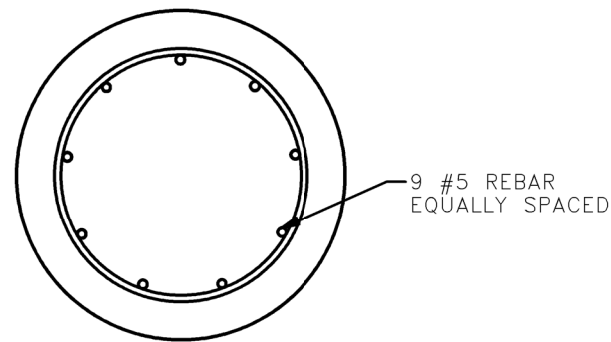
SITE POWER
CONCRETE AND REBAR
DETAIL "B"

NOTES

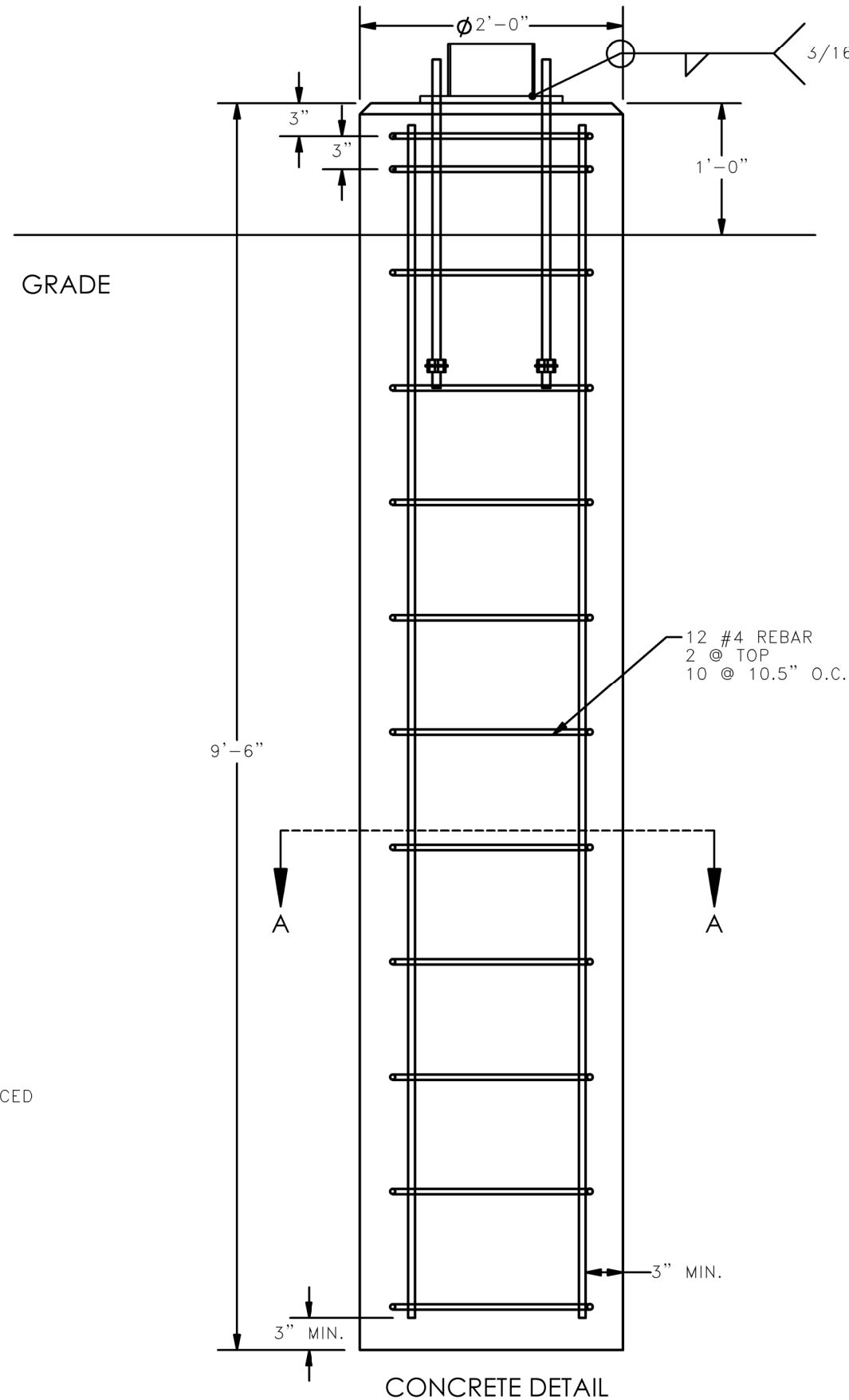
1. DRILLED PIER STANDARD: COMPLY WITH ACI 336.1, "SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", UNLESS NOTED OTHERWISE. SLURRY DISPLACEMENT METHOD OF INSTALLATION WILL NOT BE PERMITTED.
2. OFFSET STAKING AND ANCHOR BOLT ALIGNMENT STAKING SHALL BE DONE BY KLJ.
3. LOCATE EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATION FOR DRILLED PIERS.
4. REINFORCING BARS:
 - 4.1 CONFORM WITH ASTM A-615, GRADE 60, DEFORMED
 - 4.2 SPLICES AND LAP LENGTHS TO CONFORM TO ACI 318.
 - 4.3 HORIZONTAL/TIE REINFORCEMENT DIAMETER DIMENSIONS GIVEN ARE OUTSIDE TO OUTSIDE MEASUREMENT.
5. CONCRETE MATERIALS:
 - 5.1 CEMENT TO CONFORM TO ASTM C 150, TYPE 1, 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
 - 5.2 3/4" MAXIMUM AGGREGATE SIZE TO CONFORM TO ASTM C 33
 - 5.3 AIR-ENTRAINING ADMIXTURE TO CONFORM TO ASTM C 260 TO PRODUCE 4%-6% ENTRAINED AIR.
 - 5.4 POTABLE WATER COMPLYING WITH ASTM C 94 REQUIREMENTS
 - 5.5 SEE SPECIFICATIONS FOR TESTING REQUIREMENTS
6. ANCHOR BOLTS:
 - 6.1 TO BE BONDED TO REINFORCING STEEL WITH #6A COPPERWELD BARE STRANDED WIRE.
 - 6.2 COORDINATE PLACEMENT WITH ANCHOR BOLT AND STEEL POLE SHOP DRAWINGS.
7. CONCRETE PLACEMENT:
 - 7.1 TO BE PLACED IN ONE CONTINUOUS POUR.
 - 7.2 STEEL CASINGS TO BE USED IN UNSTABLE SOIL CONDITIONS AND MAY BE REMOVED AS CONCRETE IS PLACED. IF CASING IS LEFT IN PLACE, VOID AREA TO BE FILLED WITH ACCEPTABLE FLUID GROUT OR OTHER ACCEPTED MATERIAL.



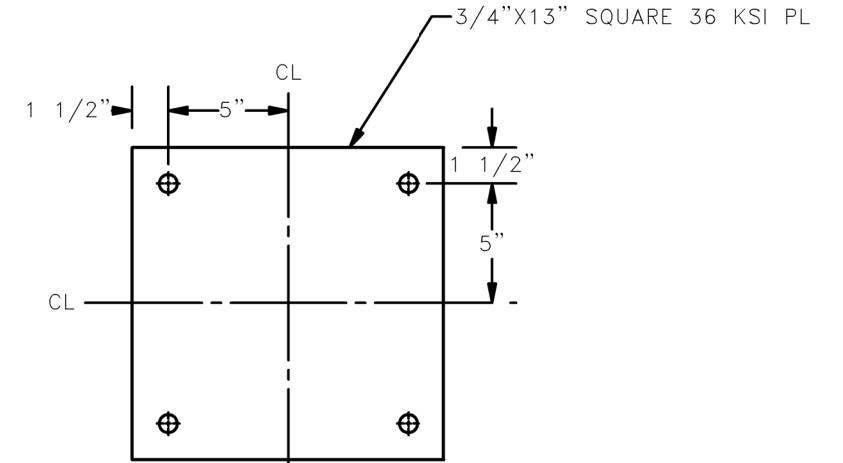
ANCHOR BOLT DETAIL



SECTION A-A
SCALE 1 : 14



CONCRETE DETAIL



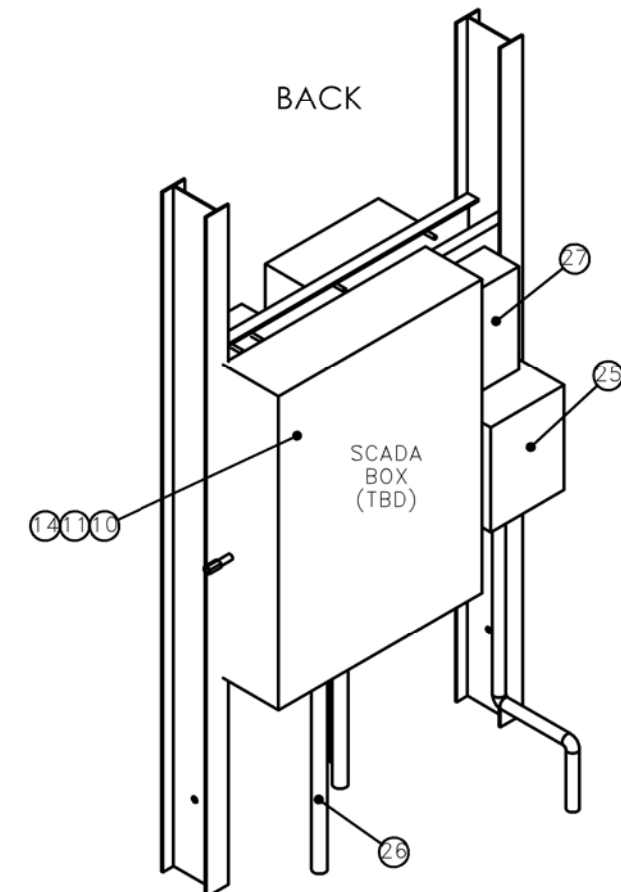
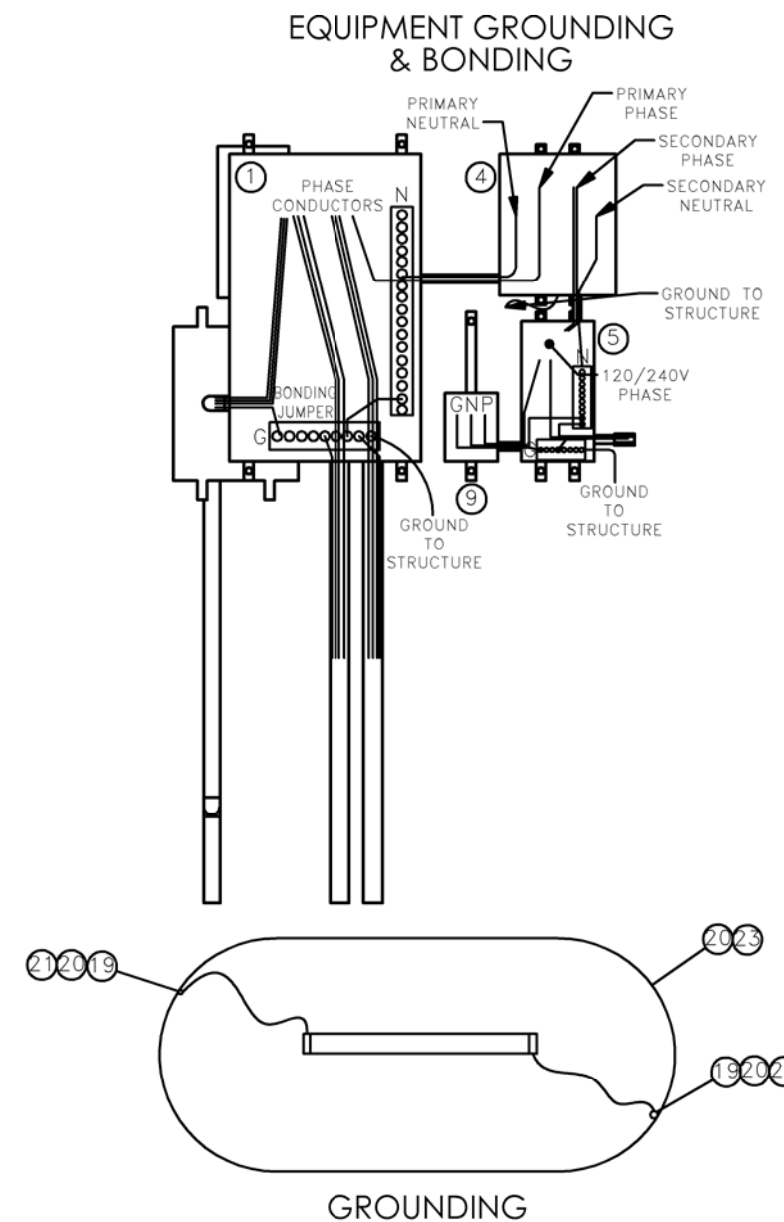
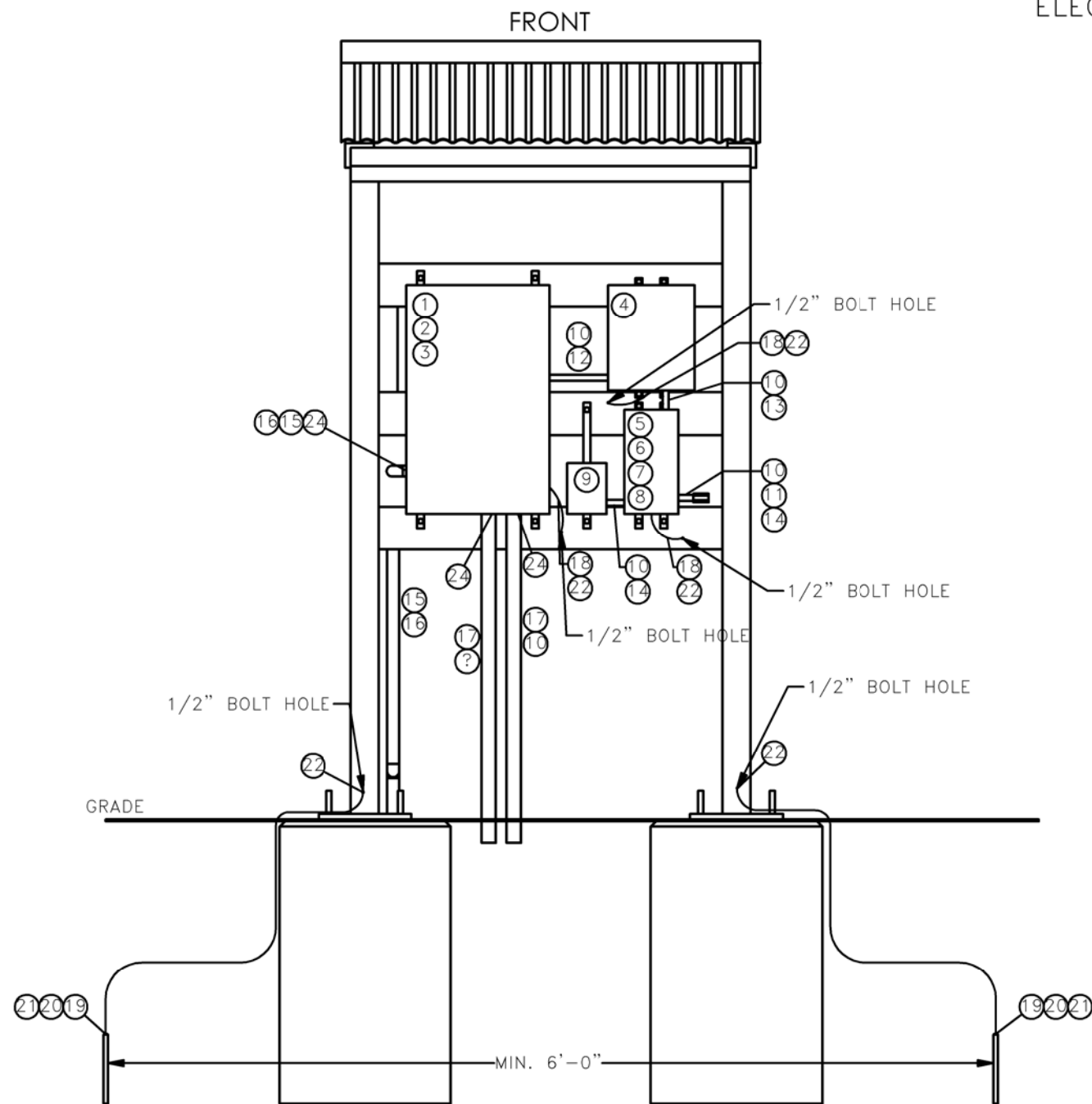
BASE PLATE DETAIL

AS-CONSTRUCTED

**FINAL
6/11/15**

SCALE: NTS	BOE BAKKEN OIL EXPRESS	BAKKEN OIL EXPRESS PIPELINE	
DRAWN BY: S. IRWIN			
DATE: 2/21/2014	SITE POWER CONCRETE & REBAR DETAILS STARK & DUNN COUNTY, NORTH DAKOTA		
CHECKED BY: C. FOSTER			
APPROVED BY: T. HOWARD	4585 Coleman Street Bismarck, ND 58503		
KLJ JOB NUMBER: 1713140			
REVISION: SHEET 112	KLJ 2014		

SITE POWER – VALVE DETAIL A
ELECTRICAL DETAILS
DETAIL "C"



FINAL
6/1/15

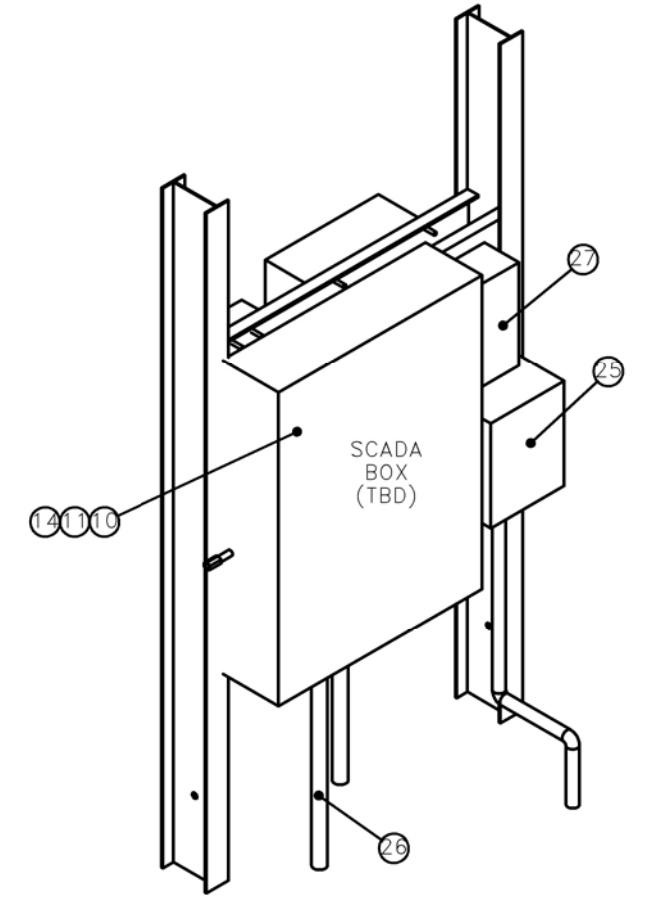
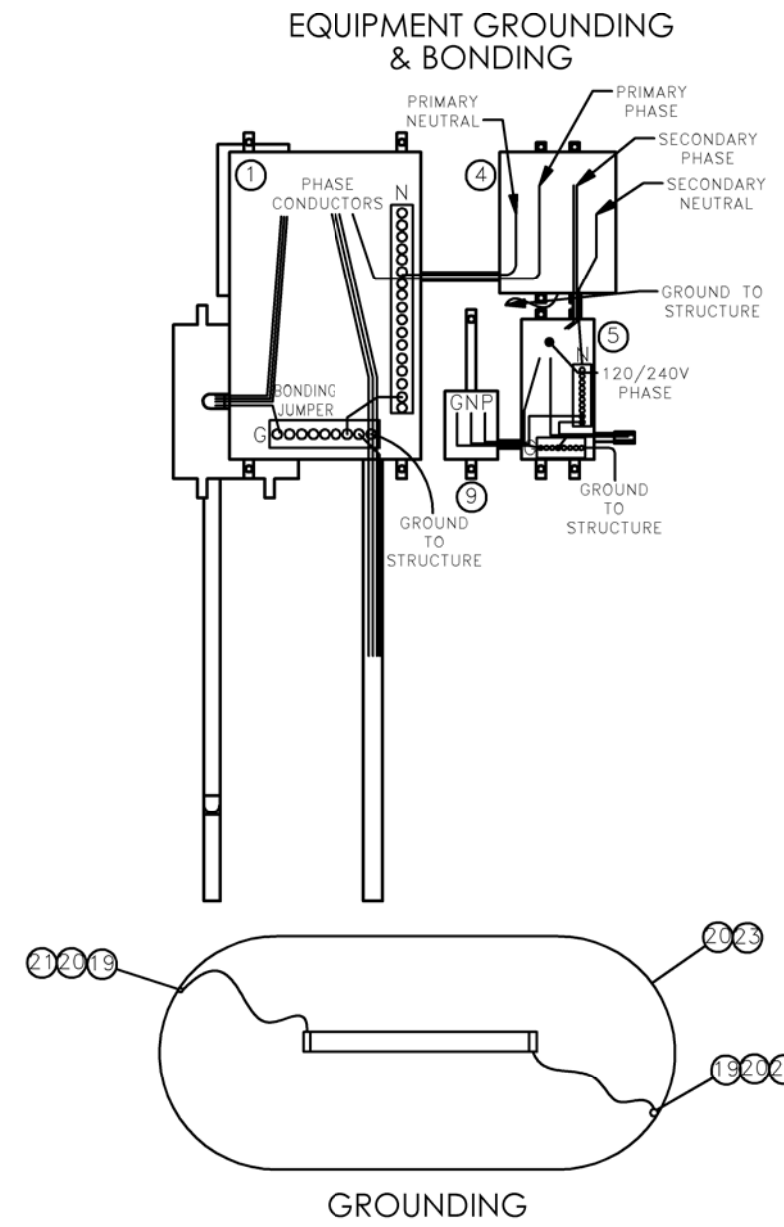
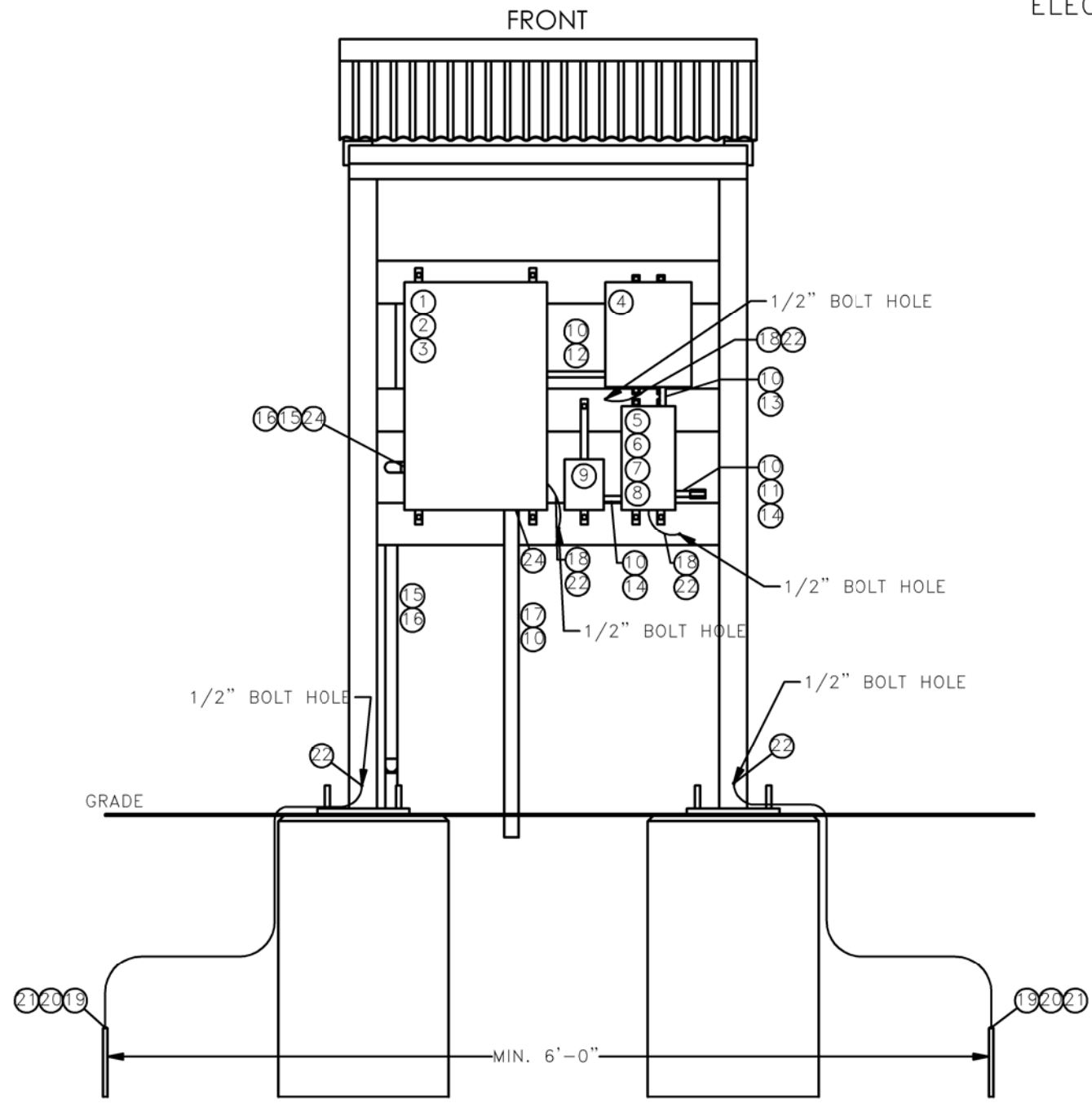
AS-CONSTRUCTED

#	QTY	DESCRIPTION	#	QTY	DESCRIPTION
1	1	480V PANEL - SIEMENS P1E18BQ100CBS (OR EQUAL)	15	1	#4 AL QUADRAPLEX 600V USE-2 CABLE CODENAME "TULSA"
2	2	20A/3P BREAKER - SIEMENS BQD320 (OR EQUAL)	16	-	1 1/2" RIGID METAL CONDUIT
3	1	30A/1P BREAKER - SIEMENS BQD130 (OR EQUAL)	17	4	#10 MTW CU 600V CABLE
4	1	277V - 120/240V DRY TYPE TRANSFORMER - SIEMENS 1E1U005 (OR EQUAL)	18	-	#2 THWN CU 600V CABLE - GREEN PER NEC FOR GROUNDING
5	1	120/240V PANEL - SIEMENS W0816ML1125CU (OR EQUAL)	19	2	5/8" X 8' COPPER CLAD STEEL GROUND ROD - HARGER 588 (OR EQUAL)
6	1	30A/2P 120/240V MAIN BREAKER - SIEMENS Q230 (OR EQUAL)	20	-	#6 BARE COPPER GROUNDING CONDUCTOR
7	1	QP RETAINER CLIP - SIEMENS ECMBR1 (OR EQUAL)	21	2	#6 CU TO 5/8" GROUND ROD EXOTHERMIC CONNECTOR
8	2	20A/1P SWITCHED NEUTRAL BREAKER - SIEMENS QG220 (OR EQUAL)	22	5	#6 CU TO SUPPORT STRUCTURE - EXOTHERMIC CONNECTION
9	1	OUTDOOR RECEPTACLE ASSEMBLY - MIDWEST ELECTRIC U010010 (OR EQUAL)	23	2	#6 CU TO #6 CU COMPRESSION CONNECTOR
10	-	1/2" RIGID METAL CONDUIT	24	4	CONDUIT SEAL
11	2	1/2" LB TYPE CONDUIT BODY - KILLARK OLB-1M (OR EQUAL)	25	1	4-POLE 100 AMP CONTRACTOR, SIEMENS CLM2E04120 (OR EQUAL)
12	2	#10 THWN CU 600V CABLE	26	-	1 1/4" RIGID METAL CONDUIT, COMMUNICATION
13	3	#10 THWN CU 600V CABLE	27	1	PCR DECOUPLER
14	3	#12 THWN CU 600V CABLE			

- NOTES:**
- GROUND RING SHALL BE INSTALLED AT A DEPTH NO LESS THAN 18".
 - INSTALLATION TO BE PLACED 25' FROM OIL PIPELINE. INSTALLATION SHALL NOT BE CLOSER THAN 20' OR GREATER THAN 100'.

SCALE: NTS DRAWN BY: IRWIN DATE: 2/21/2014 CHECKED BY: EDSTER APPROVED BY: HOWARD KJL JOB NUMBER: 1713140 REVISION: SHEET 112	 BAKKEN OIL EXPRESS EXPRESS PIPELINE	 4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
SITE POWER ELECTRICAL DETAILS STARK & DUNN COUNTY, NORTH DAKOTA		

SITE POWER – VALVE DETAIL B
ELECTRICAL DETAILS
DETAIL "C"



FINAL
6/11/15

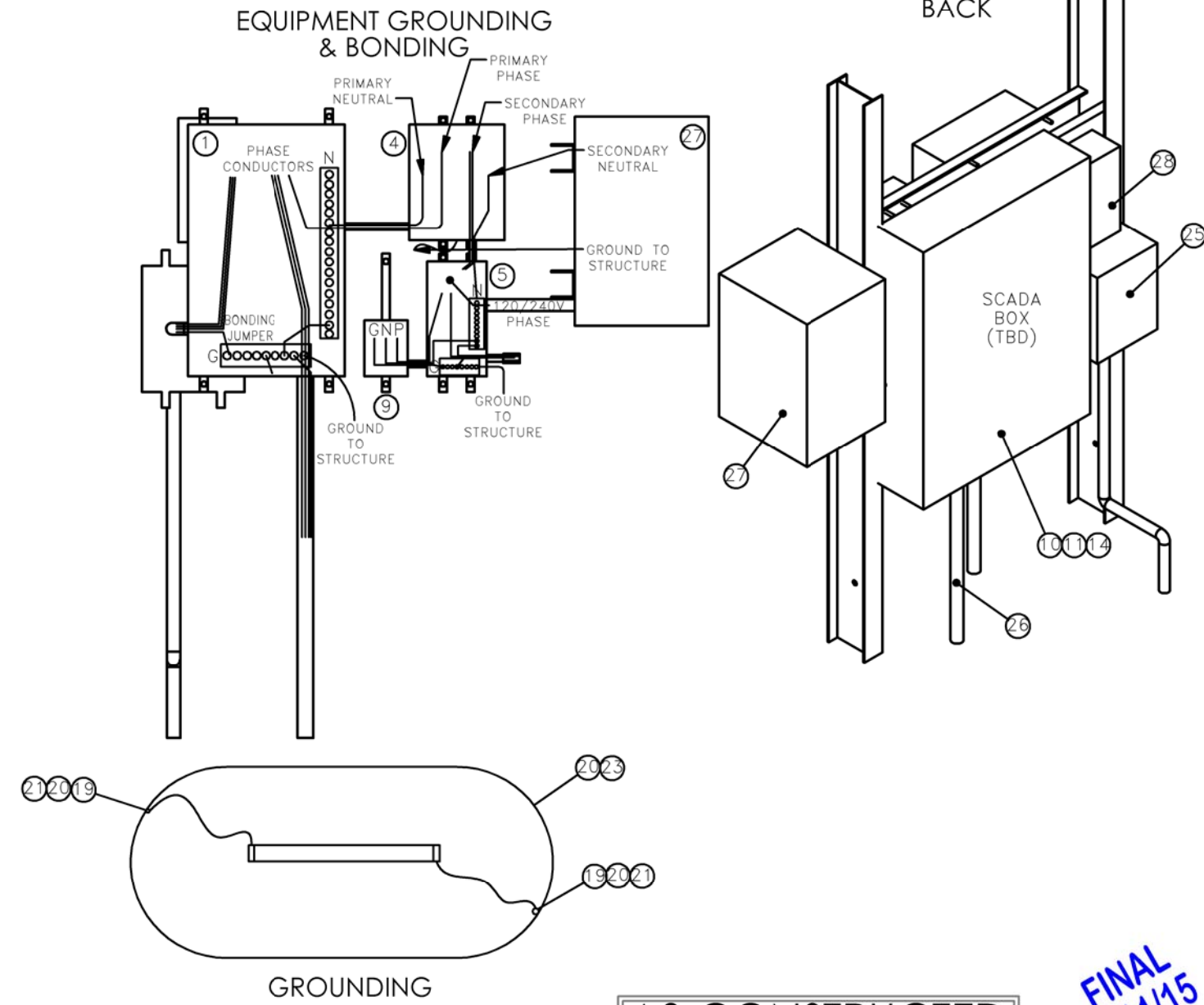
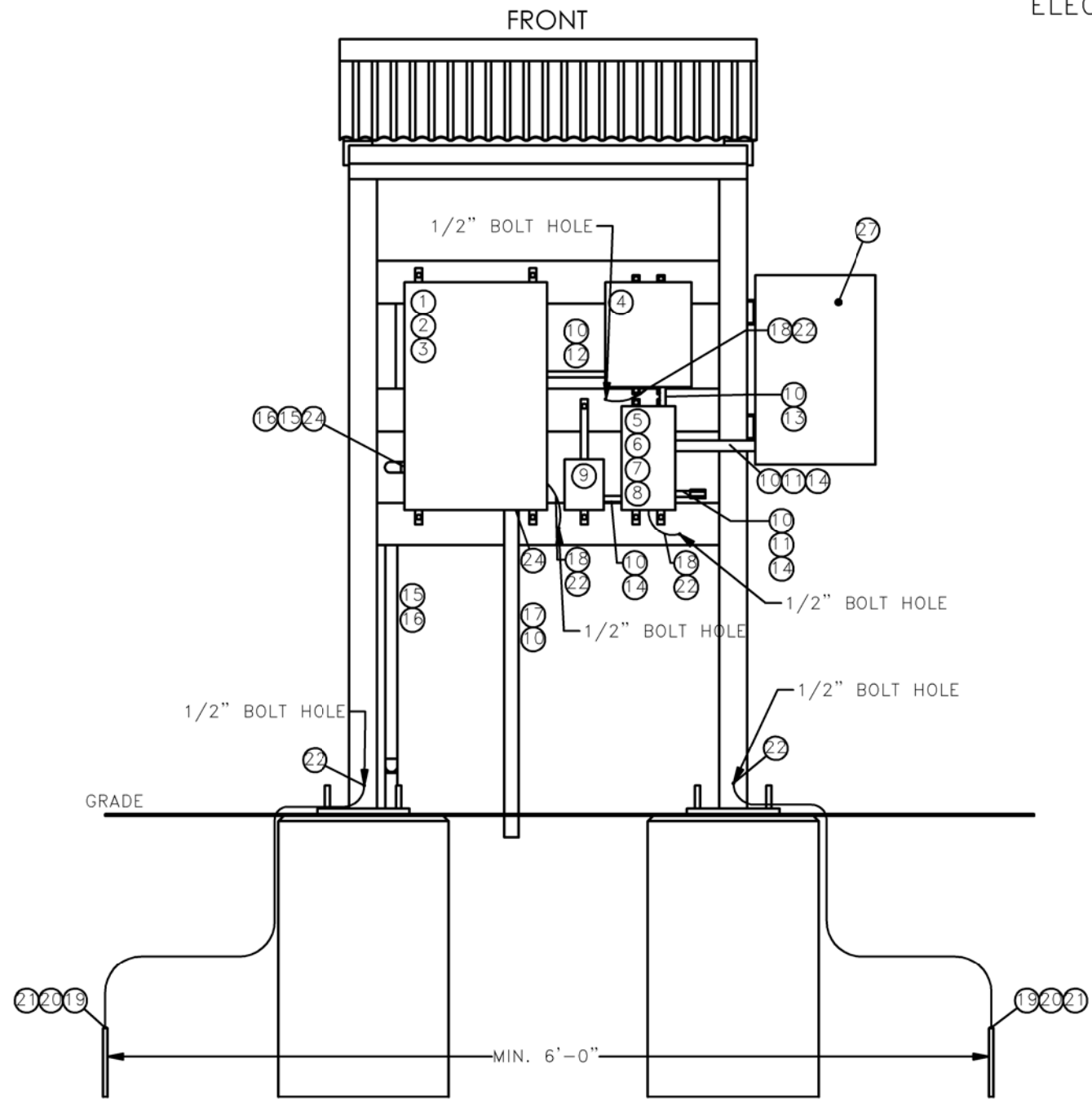
AS-CONSTRUCTED

#	QTY	DESCRIPTION	#	QTY	DESCRIPTION
1	1	480V PANEL - SIEMENS P1E18BQ100CBS (OR EQUAL)	15	1	#4 AL QUADRAPLEX 600V USE-2 CABLE CODENAME "TULSA"
2	1	20A/3P BREAKER - SIEMENS BQD320 (OR EQUAL)	16	-	1 1/2" RIGID METAL CONDUIT
3	1	30A/1P BREAKER - SIEMENS BQD130 (OR EQUAL)	17	4	#10 MTW CU 600V CABLE
4	1	277V - 120/240V DRY TYPE TRANSFORMER - SIEMENS 1E1U005 (OR EQUAL)	18	-	#2 THWN CU 600V CABLE - GREEN PER NEC FOR GROUNDING
5	1	120/240V PANEL - SIEMENS W0816ML1125CU (OR EQUAL)	19	2	5/8" X 8' COPPER CLAD STEEL GROUND ROD - HARGER 588 (OR EQUAL)
6	1	30A/2P 120/240V MAIN BREAKER - SIEMENS Q230 (OR EQUAL)	20	-	#6 BARE COPPER GROUNDING CONDUCTOR
7	1	QP RETAINER CLIP - SIEMENS ECMBR1 (OR EQUAL)	21	2	#6 CU TO 5/8" GROUND ROD EXOTHERMIC CONNECTOR
8	2	20A/1P SWITCHED NEUTRAL BREAKER - SIEMENS QG220 (OR EQUAL)	22	5	#6 CU TO SUPPORT STRUCTURE - EXOTHERMIC CONNECTION
9	1	OUTDOOR RECEPTACLE ASSEMBLY - MIDWEST ELECTRIC U010010 (OR EQUAL)	23	2	#6 CU TO #6 CU COMPRESSION CONNECTOR
10	-	1/2" RIGID METAL CONDUIT	24	4	CONDUIT SEAL
11	2	1/2" LB TYPE CONDUIT BODY - KILLARK OLB-1M (OR EQUAL)	25	1	4-POLE 100 AMP CONTRACTOR, SIEMENS CLM2E04120 (OR EQUAL)
12	2	#10 THWN CU 600V CABLE	26	-	1 1/4" RIGID METAL CONDUIT, COMMUNICATION
13	3	#10 THWN CU 600V CABLE	27	1	PCR DECOUPLER
14	3	#12 THWN CU 600V CABLE			

- NOTES:**
- GROUND RING SHALL BE INSTALLED AT A DEPTH NO LESS THAN 18".
 - INSTALLATION TO BE PLACED 25' FROM OIL PIPELINE. INSTALLATION SHALL NOT BE CLOSER THAN 20' OR GREATER THAN 100'.

SCALE: NTS	 BAKKEN OIL EXPRESS EXPRESS PIPELINE	
DESIGNED BY: IRWIN		
DRAWN BY: EDOSTER		
CHECKED BY: HOWARD		
DATE: 2/21/2014	SITE POWER ELECTRICAL DETAILS STARK & DUNN COUNTY, NORTH DAKOTA	
PROJECT: 1713140	4585 Coleman Street Bismarck, ND 58503 © KLJ 2014	

SITE POWER – VALVE DETAIL B.1
ELECTRICAL DETAILS
DETAIL "C"



AS-CONSTRUCTED

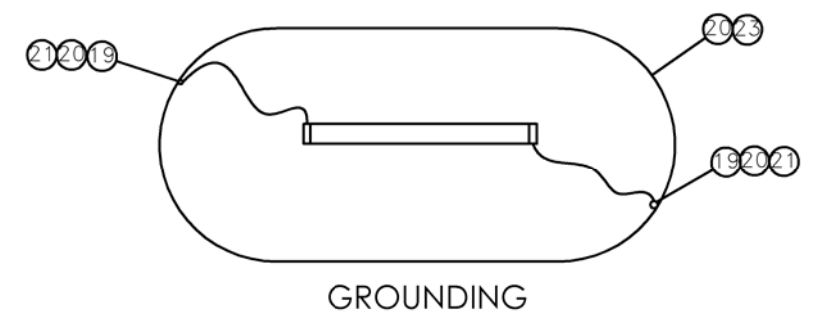
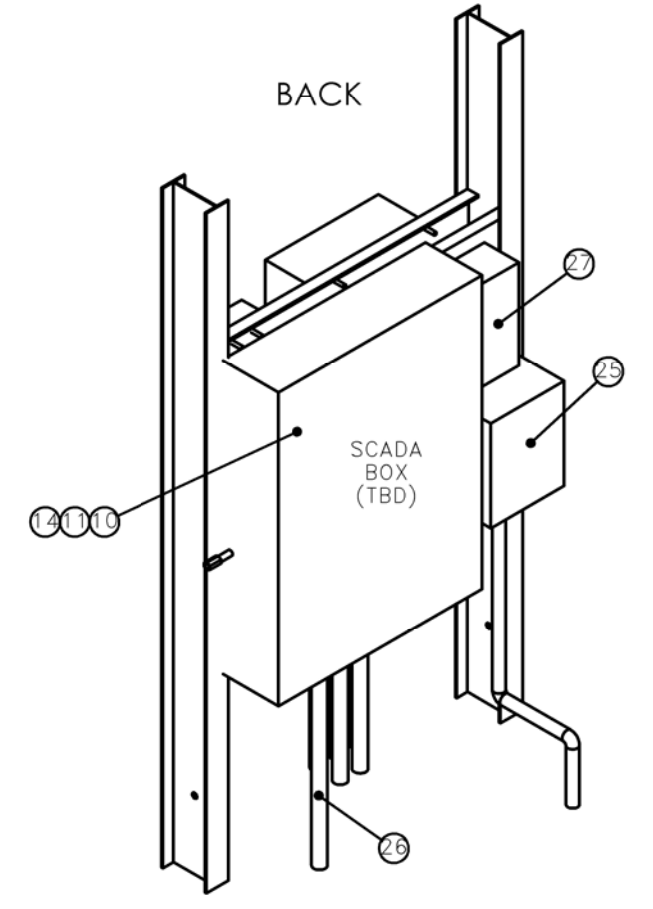
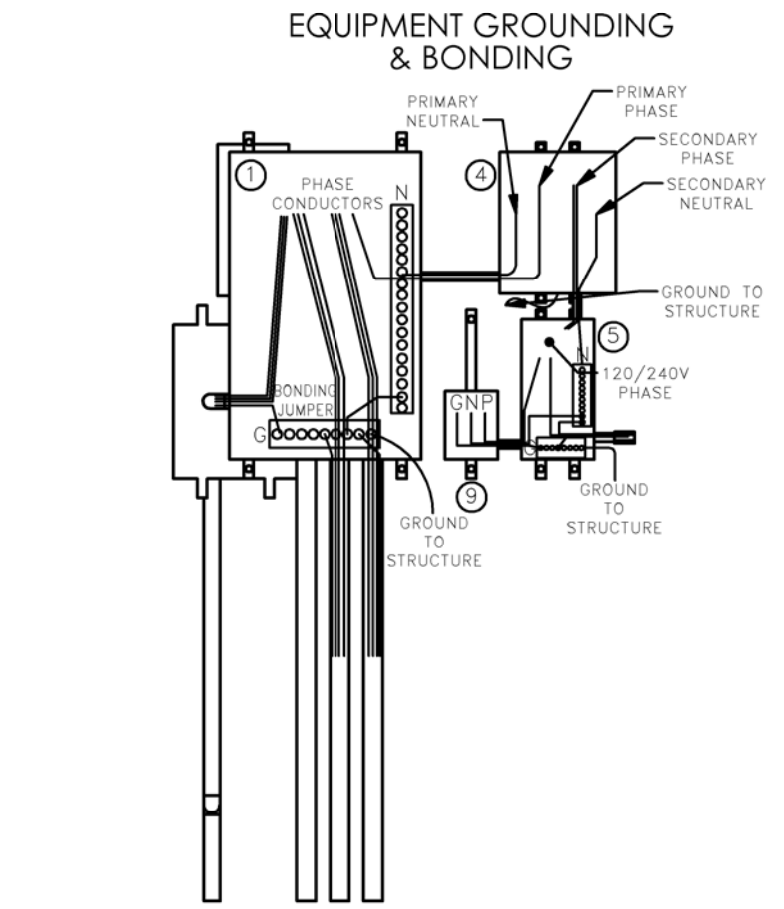
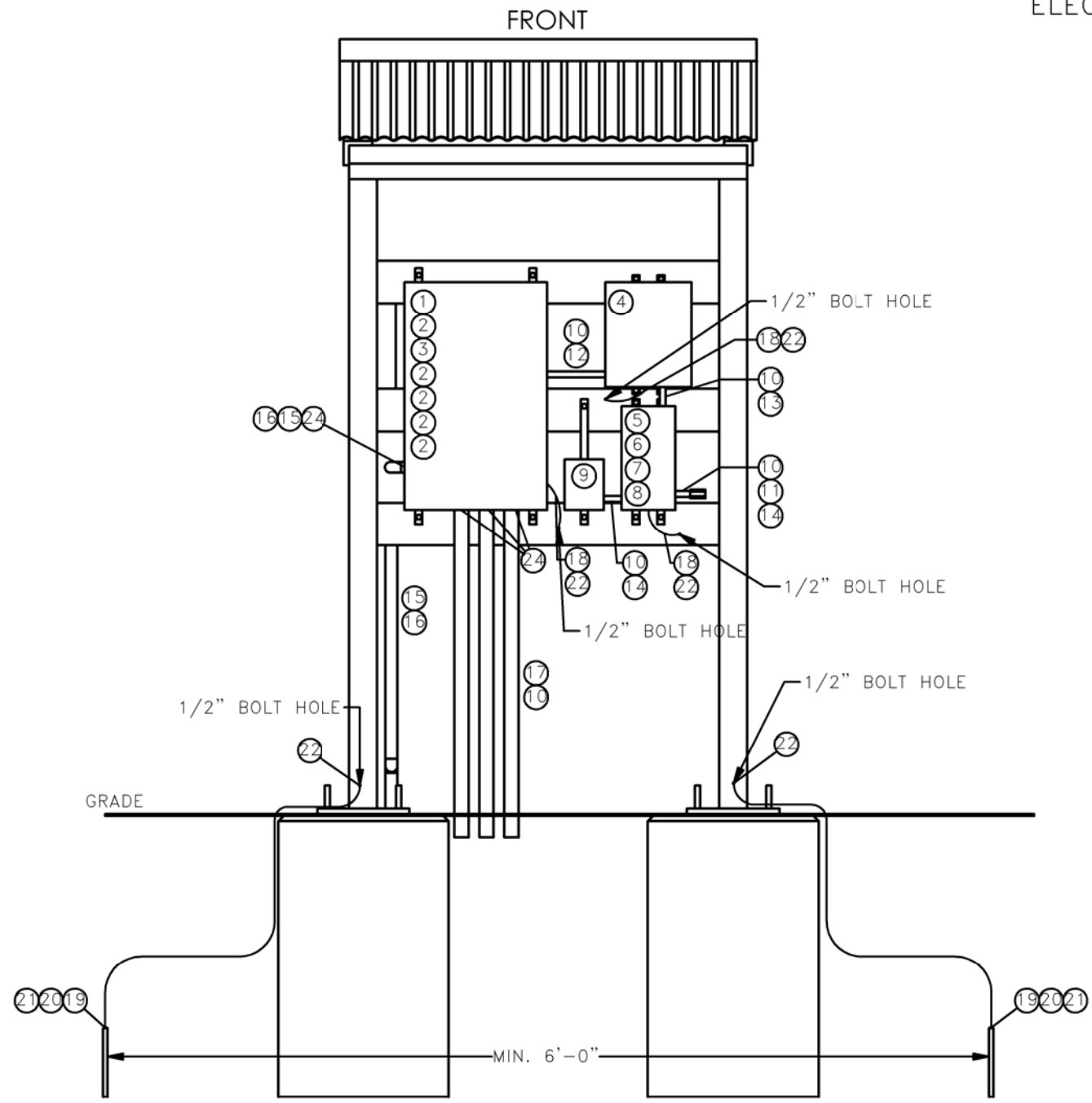
FINAL
6/11/15

#	QTY	DESCRIPTION	#	QTY	DESCRIPTION
1	1	480V PANEL - SIEMENS P1E18BQ100CBS (OR EQUAL)	15	1	#4 AL QUADRAPLEX 600V USE-2 CABLE CODENAME "TULSA"
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3	1	30A/1P BREAKER - SIEMENS BQD130 (OR EQUAL)	17	4	#10 MTW CU 600V CABLE
4	1	277V - 120/240V DRY TYPE TRANSFORMER - SIEMENS 1E1U005 (OR EQUAL)	18	-	#2 THWN CU 600V CABLE - GREEN PER NEC FOR GROUNDING
5	1	120/240V PANEL - SIEMENS W0816ML1125CU (OR EQUAL)	19	2	5/8" X 8' COPPER CLAD STEEL GROUND ROD - HARGER 588 (OR EQUAL)
6	1	30A/2P 120/240V MAIN BREAKER - SIEMENS Q230 (OR EQUAL)	20	-	#6 BARE COPPER GROUNDING CONDUCTOR
7	1	QP RETAINER CLIP - SIEMENS ECMBR1 (OR EQUAL)	21	2	#6 CU TO 5/8" GROUND ROD EXOTHERMIC CONNECTOR
8	3	20A/1P SWITCHED NEUTRAL BREAKER - SIEMENS QG220 (OR EQUAL)	22	5	#6 CU TO SUPPORT STRUCTURE - EXOTHERMIC CONNECTION
9	1	OUTDOOR RECEPTACLE ASSEMBLY - MIDWEST ELECTRIC U010010 (OR EQUAL)	23	2	#6 CU TO #6 CU COMPRESSION CONNECTOR
10	-	1/2" RIGID METAL CONDUIT	24	4	CONDUIT SEAL
11	3	1/2" LB TYPE CONDUIT BODY - KILLARK OLB-1M (OR EQUAL)	25	1	4-POLE 100 AMP CONTRACTOR, SIEMENS CLM2E04120 (OR EQUAL)
12	2	#10 THWN CU 600V CABLE	26	-	1 1/4" RIGID METAL CONDUIT, COMMUNICATION
13	3	#10 THWN CU 600V CABLE	27	1	ADASFS 60-42 B, A-2, ADVANTAGE AIR SERIES CPU
14	3	#12 THWN CU 600V CABLE	28	1	PCR DECOUPLER

- NOTES:
- GROUND RING SHALL BE INSTALLED AT A DEPTH NO LESS THAN 18".
 - INSTALLATION TO BE PLACED 25' FROM OIL PIPELINE. INSTALLATION SHALL NOT BE CLOSER THAN 20' OR GREATER THAN 100'.

SCALE: NTS		BAKKEN OIL EXPRESS EXPRESS PIPELINE	
DRAWN BY: IRWIN DATE: 2/21/2014 CHECKED BY: EDOSTER APPROVED BY: HOWARD KJL JOB NUMBER: 1713140			
SITE POWER ELECTRICAL DETAILS		STARK & DUNN COUNTY, NORTH DAKOTA	
		4585 Coleman Street Bismarck, ND 58503 <small>KJL 2014</small>	

SITE POWER – VALVE DETAIL D
ELECTRICAL DETAILS
DETAIL "C"



FINAL
6/11/15

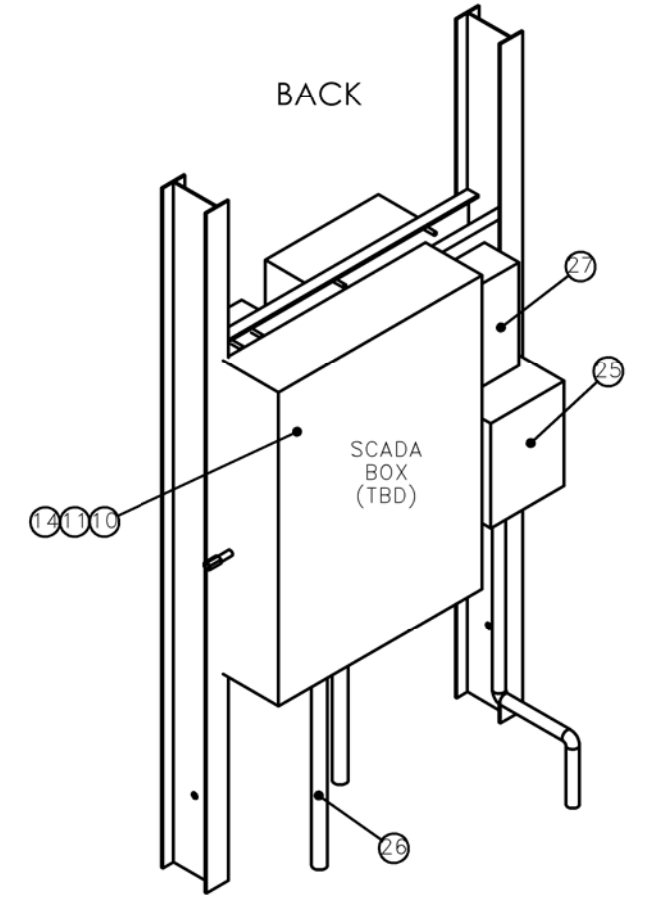
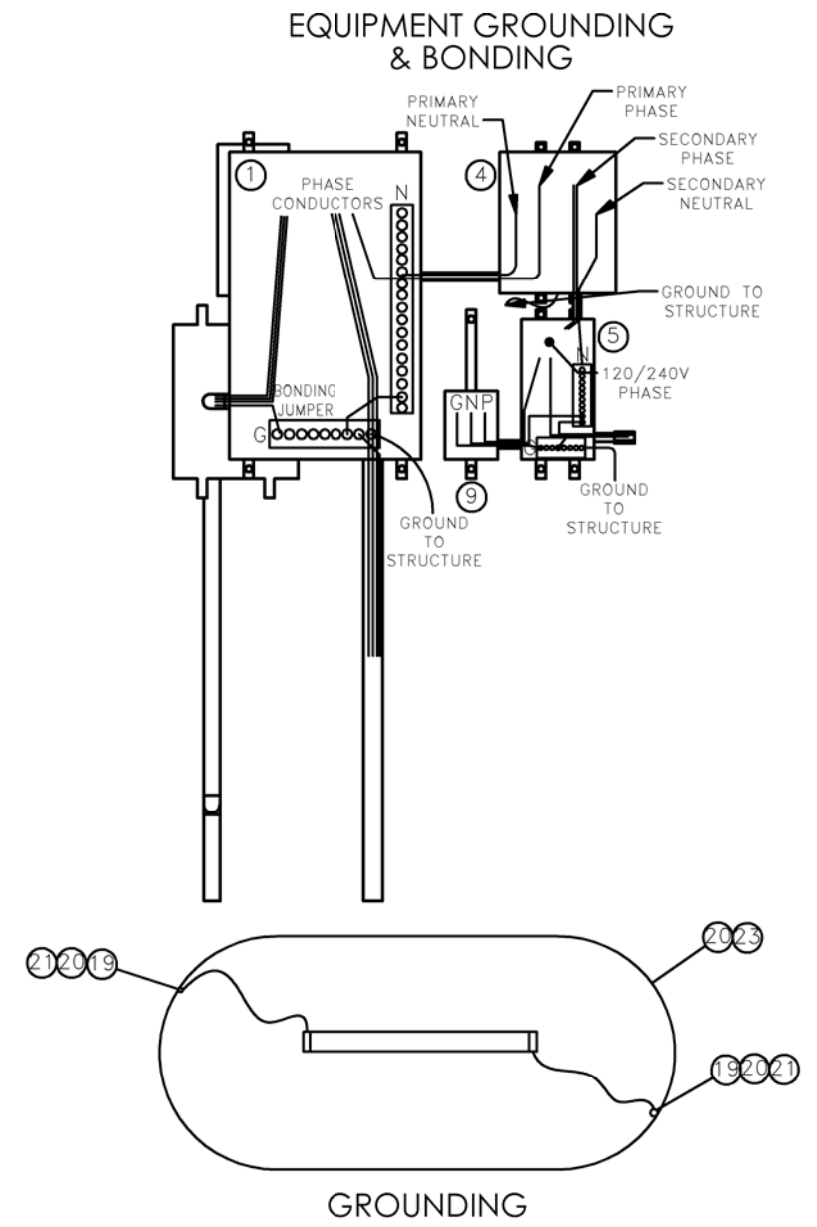
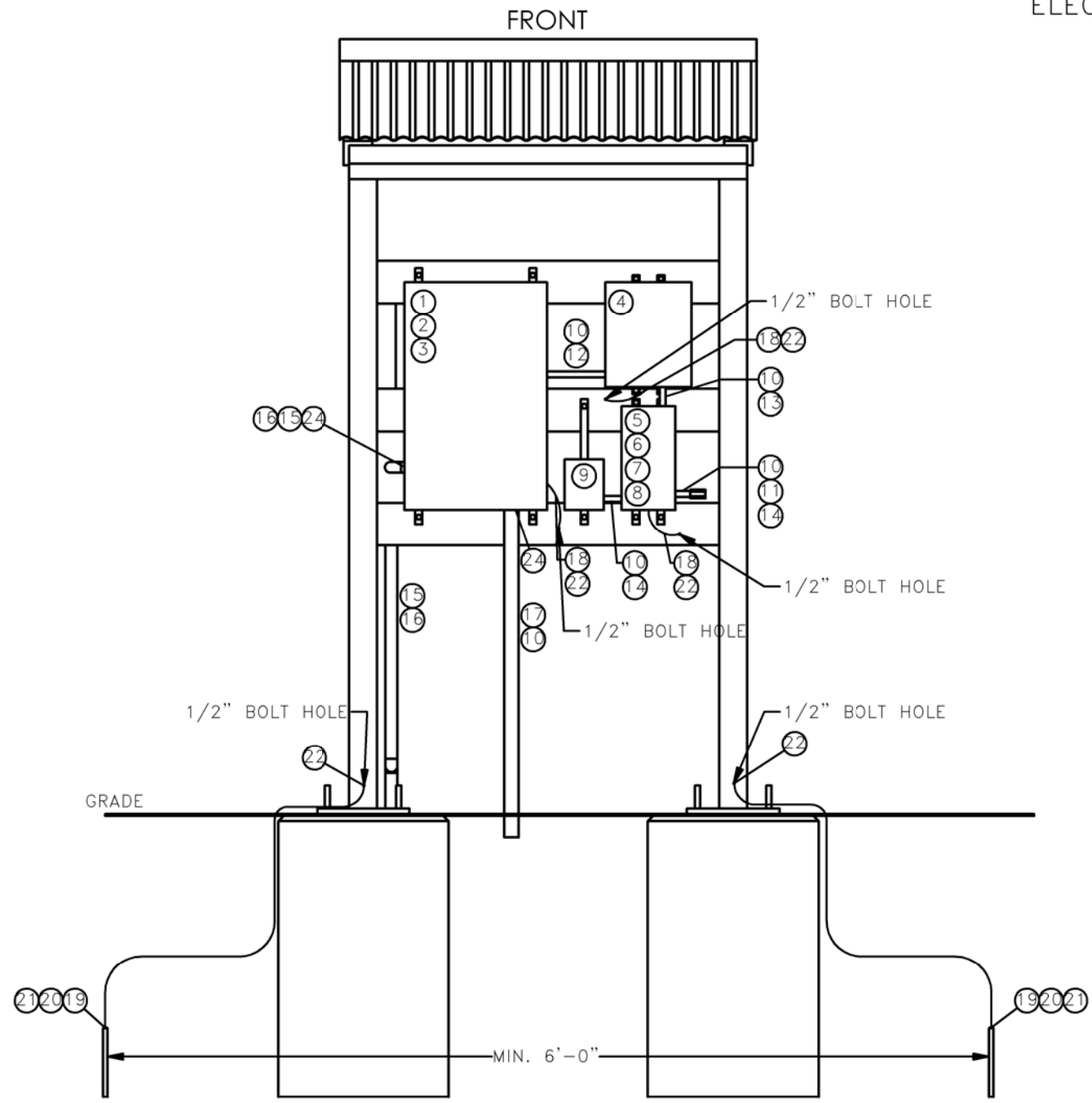
AS-CONSTRUCTED

#	QTY	DESCRIPTION	#	QTY	DESCRIPTION
1	1	480V PANEL - SIEMENS P1E18FX200CBS (OR EQUAL)	15	1	#4 AL QUADRAPLEX 600V USE-2 CABLE CODENAME "TULSA"
2	5	20A/3P BREAKER - SIEMENS BQD320 (OR EQUAL)	16	-	1 1/2" RIGID METAL CONDUIT
3	1	30A/1P BREAKER - SIEMENS BQD130 (OR EQUAL)	17	4	#10 MTW CU 600V CABLE
4	1	277V - 120/240V DRY TYPE TRANSFORMER - SIEMENS 1E1U005 (OR EQUAL)	18	-	#2 THWN CU 600V CABLE - GREEN PER NEC FOR GROUNDING
5	1	120/240V PANEL - SIEMENS W0816ML1125CU (OR EQUAL)	19	2	5/8" X 8' COPPER CLAD STEEL GROUND ROD - HARGER 588 (OR EQUAL)
6	1	30A/2P 120/240V MAIN BREAKER - SIEMENS Q230 (OR EQUAL)	20	-	#6 BARE COPPER GROUNDING CONDUCTOR
7	1	QP RETAINER CLIP - SIEMENS ECMBR1 (OR EQUAL)	21	2	#6 CU TO 5/8" GROUND ROD EXOTHERMIC CONNECTOR
8	2	20A/1P SWITCHED NEUTRAL BREAKER - SIEMENS QG220 (OR EQUAL)	22	5	#6 CU TO SUPPORT STRUCTURE - EXOTHERMIC CONNECTION
9	1	OUTDOOR RECEPTACLE ASSEMBLY - MIDWEST ELECTRIC U010010 (OR EQUAL)	23	2	#6 CU TO #6 CU COMPRESSION CONNECTOR
10	-	1/2" RIGID METAL CONDUIT	24	10	CONDUIT SEAL
11	2	1/2" LB TYPE CONDUIT BODY - KILLARK OLB-1M (OR EQUAL)	25	1	4-POLE 100 AMP CONTRACTOR, SIEMENS CLM2E04120 (OR EQUAL)
12	2	#10 THWN CU 600V CABLE	26	-	1 1/4" RIGID METAL CONDUIT, COMMUNICATION
13	3	#10 THWN CU 600V CABLE	27	1	PCR DECOUPLER
14	3	#12 THWN CU 600V CABLE			

- NOTES:**
- GROUND RING SHALL BE INSTALLED AT A DEPTH NO LESS THAN 18".
 - INSTALLATION TO BE PLACED 25' FROM OIL PIPELINE. INSTALLATION SHALL NOT BE CLOSER THAN 20' OR GREATER THAN 100'.

SCALE: NTS DRAWN BY: J. IRWIN DATE: 2/21/2014 CHECKED BY: J. EDOSTER APPROVED BY: T. HOWARD KJL JOB NUMBER: 1713140 REVISION: _____ SHEET: 116	BAKKEN OIL EXPRESS EXPRESS PIPELINE	4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
SITE POWER ELECTRICAL DETAILS STARK & DUNN COUNTY, NORTH DAKOTA		

SITE POWER – VALVE DETAIL E
ELECTRICAL DETAILS
DETAIL "C"



FINAL
6/11/15

AS-CONSTRUCTED

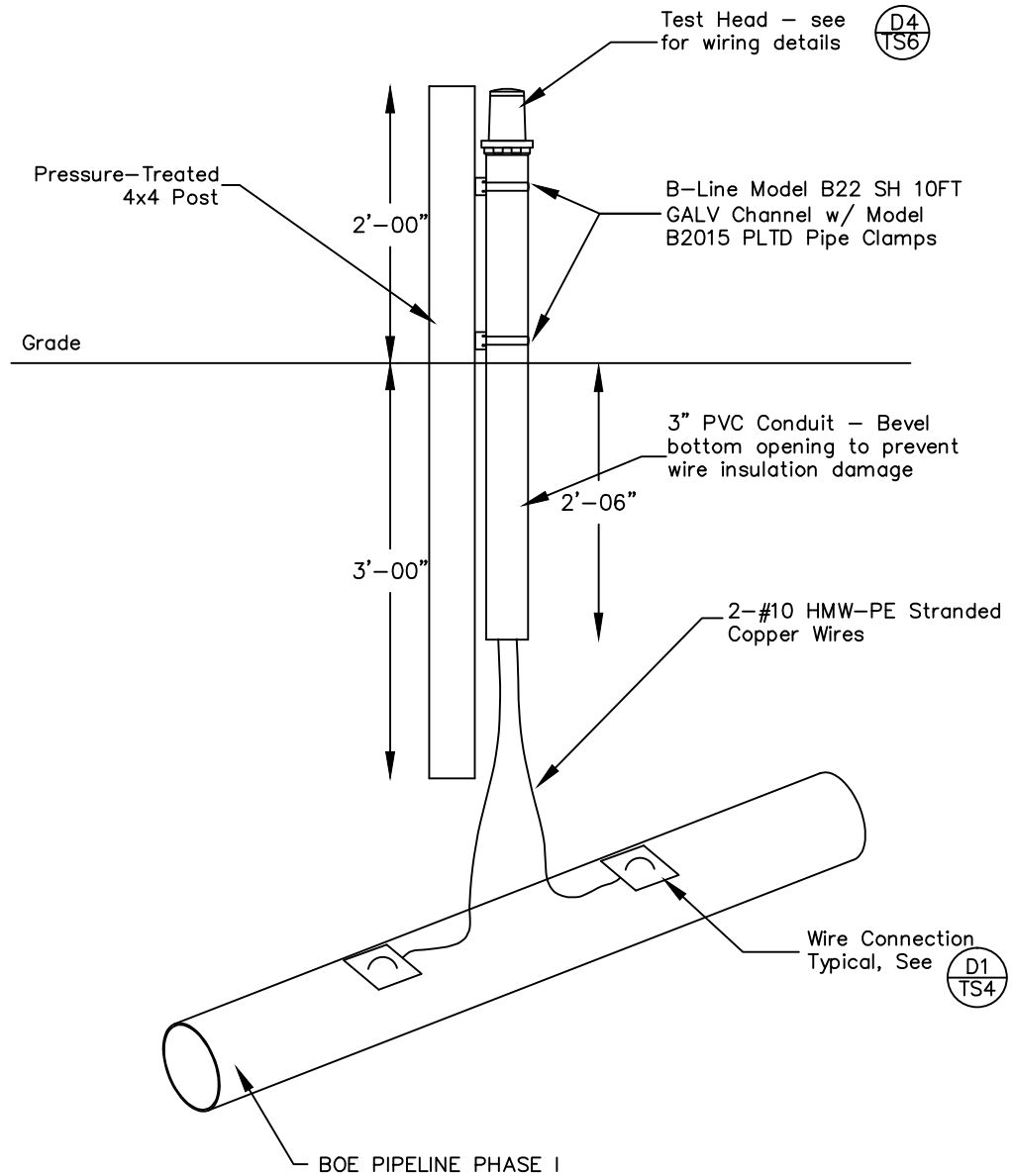
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SCALE: NTS DRAWN BY: S. IRWIN DATE: 2/21/2014 CHECKED BY: J. EDISTER APPROVED BY: T. HOWARD KLI JOB NUMBER: 1713140 REVISION: _____ SHEET: 1-17	 BAKKEN OIL EXPRESS EXPRESS PIPELINE	 4585 Coleman Street Bismarck, ND 58503 © KLJ 2014
SITE POWER ELECTRICAL DETAILS STARK & DUNN COUNTY, NORTH DAKOTA		

BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA



Construction Notes:

1. Pipeline Contractor shall be responsible for the installation of Type 1 test stations at all locations listed in the Test Station Schedule.
2. Cathodic Protection Contractor (CPC) shall supply all materials required for the installation of the Type 1 Test Stations to the Project Staging area in quantities per the Test Station Bill-of-Material. Pipeline Contractor shall be responsible for purchasing additional materials required to complete project due to Contractor wastage, damage or loss of supplied materials. Pipeline contractor shall return any unused materials to Project Staging Area.
3. CPC will have Test Station and mounting post pre-assembled to facilitate ease of installation by pipeline Contractor.

Notes:

Allow sufficient slack in test station wires for backfilling and settling

TYPE 1 TEST STATION
NTS Standard

T1

AS-CONSTRUCTED

FINAL
6/11/15

LEGEND	
—	PROPERTY LINE
- - -	SECTION LINE
- · - · -	EASEMENT LINE
—+—	PIPELINE CENTERLINE
—W—	WATER LINE
—R—	FOREIGN PIPELINE
— · —	EXISTING ROAD
— · · —	UNDERGROUND COM. LINE
—*—	EXISTING FENCE
—FO—	FIBER OPTIC COM. LINE
—R—	RAILROAD
—E—	OVERHEAD ELECTRIC
—U—	UTILITY POLE
—	AS-CONSTRUCTED BORE
—	MARKER POST
—	AVOIDANCE AREA
—	WETLAND EASEMENT
—	TEST LEAD
—	VALVE SETTING



MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION

REVISIONS		
NO.	DATE	DESCRIPTION

SCALE: NTS
DRAWN BY: B.C.
DATE: 6/11/15
CHECKED BY: —
APPROVED BY: —
KLJ JOB NUMBER: 1713140
REVISION: — SHEET: 118

BOE PIPELINE, LLC

BOE PIPELINE PHASE I

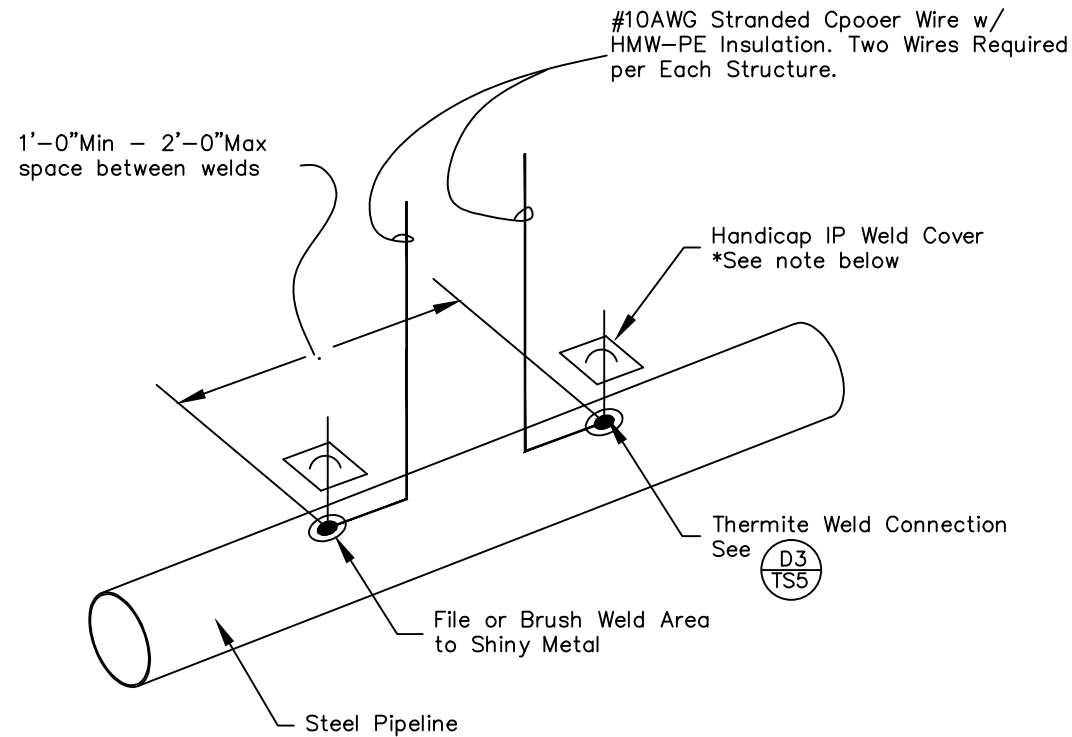
CATHODIC PROTECTION TEST STATION TYPICAL DRAWING

DUNN & STARK COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58502

BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA



Notes:

Copper sleeve required for thermite welding of #10 and smaller wire.

T1 WIRE CONNECTION
NTS

D1

AS-CONSTRUCTED

FINAL
6/11/15

Handy Cap IP & IP XL Application Directions:

1. Clean all mud, dirt, grease, oil and other contaminants from the metal surface and mill coating which is going to be covered. The Handy Cap incorporates an integrated primer in its adhesive and does not require the use of a liquid primer.
2. Remove the release paper from the bottom of the Handy Cap. Position and place the Handy Cap on the welded area with the tunnel over the leadwire.
3. Push the dome of the cap firmly into the weld area. lift the lead wire away from the pipe and squeeze the adhesive compound completely around and underneath the wire. Push the lead wire back down on the pipe and press the elastomeric compound into firm contact with the pipe over the entire area.
4. If the mill coating is inadvertently excessively removed where the Handy Cap will not cover all exposed pipeline steel, the area shall be recoated following the pipeline coating repair specifications.

LEGEND

—	PROPERTY LINE	—*—	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	FO	FIBER OPTIC COM. LINE		WETLAND EASEMENT
- · - · -	EASEMENT LINE	—	RAILROAD		TEST LEAD
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC		VALVE SETTING
—	WATER LINE	—	UTILITY POLE		AS-CONSTRUCTED BORE
—	FOREIGN PIPELINE	—	AS-CONSTRUCTED BORE		MARKER POST
—	EXISTING ROAD				
—	UNDERGROUND COM. LINE				



MATERIAL SUMMARY			REVISIONS		
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SCALE: NTS
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DATE: 6/11/15
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APPROVED BY: —
KLJ JOB NUMBER: 1713140
REVISION: — SHEET: 119

BOE PIPELINE PHASE I
CATHODIC PROTECTION TEST STATION TYPICAL DRAWING
DUNN & STARK COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58502
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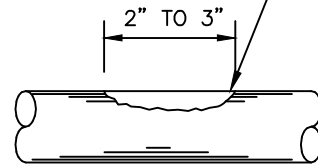
BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA

EXOTHERMIC WELDING NOTES

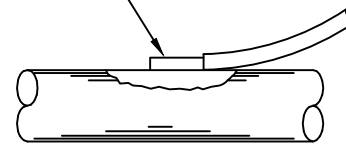
1. WHEN USING No. 10 TO No. 14 AWG SOLID WIRE, IT WILL BE NECESSARY TO INSTALL A COPPER SLEEVE OF ADEQUATE SIZE OVER THE BARE END OF THE WIRE AND CRIMP IN PLACE BEFORE ATTEMPTING TO MAKE THE CONNECTION. THE WIRE SHOULD PROTRUDE AT LEAST 1/16" FROM THE END OF THE SLEEVE.
2. INSERT THE CONDUCTOR INTO MOLD INFORMATION UNDER "POSITIONING" FOR APPLICATION TYPE IN THE MANUFACTURERS INSTRUCTIONS PACKAGED WITH THE WELDER.
3. INSERT STEEL DISK IN BOTTOM OF CAVITY INSIDE MOLD. DUMP THE WELD METAL INTO MOLD BEING CAREFUL NOT TO UPSET THE STEEL DISK. TAP THE BOTTOM OF THE TUBE TO LOOSEN ALL THE STARTING POWDER AND SPREAD IT EVENLY OVER THE WELD METAL. PLACE A SMALL AMOUNT OF STARTING POWDER ON THE TOP EDGE OF MOLD UNDER COVER OPENING FOR EASY IGNITION.
4. CLOSE COVER AND IGNITE WITH THE FLINT GUN. MOVE FLINT GUN AWAY QUICKLY TO PREVENT FOULING. IF FLINT GUN SHOULD BECOME FOULED, SOAK IT IN HOUSEHOLD AMMONIA.
5. AFTER IGNITION, HOLD THE WELDER IN PLACE FOR A MOMENT TO ALLOW THE WELD TO SOLIDIFY. AFTER THE WELD HAS COOLED, REMOVE THE SLAG WITH A CHIPPING HAMMER OR WIRE BRUSH.
6. COAT THE CONNECTION AND THE ENTIRE PREPARED SURFACE WITH THE SPECIFIED WELD COATING.
7. REMOVE ALL SLAG FROM THE WELDER BEFORE MAKING WELD. CLEAN THE COVER EVERY 6 TO 10 WELDS.
8. WET OR DAMP MOLDS WILL PRODUCE POROUS WELDS. MOLDS MUST BE DRIED OUT BEFORE ATTEMPTING TO WELD.
9. CONNECTIONS ARE TO BE PLACED A MINIMUM OF 1-FT APART. UNSUCCESSFUL WELDS ARE TO BE ABANDONED AND MOVED TO ANOTHER PREPARED SURFACE NOT LESS THAN 1-FT AWAY.

REMOVE PIPELINE COATING FILE PIPE TO BRIGHT METAL AND DRY ANY MOISTURE WITH A TOWEL



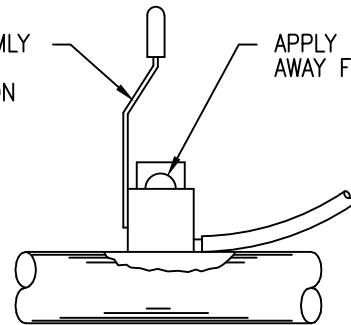
STEP 1

STRIP INSULATION FROM WIRE (SEE NOTE No. 1)



STEP 2

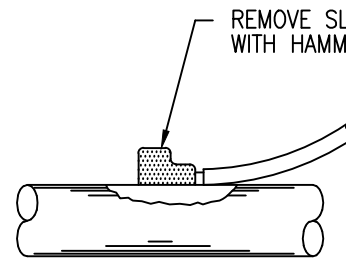
HOLD WELDER FIRMLY IN PLACE WHILE MAKING CONNECTION



STEP 3

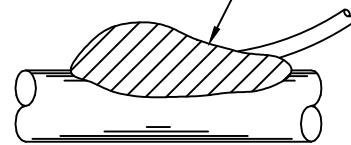
APPLY SPARK GUN AWAY FROM OPERATOR

REMOVE SLAG WITH HAMMER

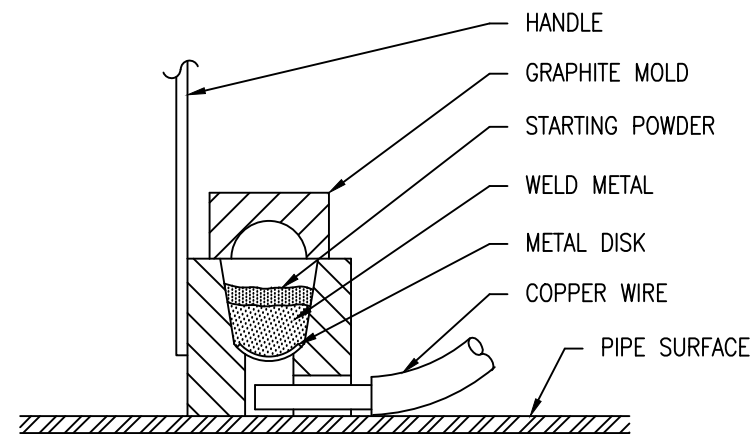


STEP 4

COVER WITH PROPERLY SIZED HANDICAP



STEP 5



THERMITE WELD DETAIL

NTS

D3

FINAL
6/11/15

AS-CONSTRUCTED

LEGEND

—●— PROPERTY LINE	—*— EXISTING FENCE	—/— AVOIDANCE AREA
—-— SECTION LINE	—FO— FIBER OPTIC COM. LINE	—W— WETLAND
—- - EASEMENT LINE	—R— RAILROAD	—E— EASEMENT
—- - PIPELINE CENTERLINE	—OE— OVERHEAD ELECTRIC	—T— TEST LEAD
—W— WATER LINE	—UP— UTILITY POLE	—V— VALVE SETTING
—F— FOREIGN PIPELINE	—AC— AS-CONSTRUCTED BORE	—MP— MARKER POST
—- - EXISTING ROAD		
—- - UNDERGROUND COM. LINE		



MATERIAL SUMMARY			REVISIONS		
MK.NO.	QTY.	DESCRIPTION	NO.	DATE	DESCRIPTION

SCALE: NTS
DRAWN BY: B.C.
DATE: 6/11/15
CHECKED BY: -
APPROVED BY: -
KLJ JOB NUMBER: 1713140
REVISION: - SHEET: 120

BOE PIPELINE, LLC

BOE PIPELINE PHASE I

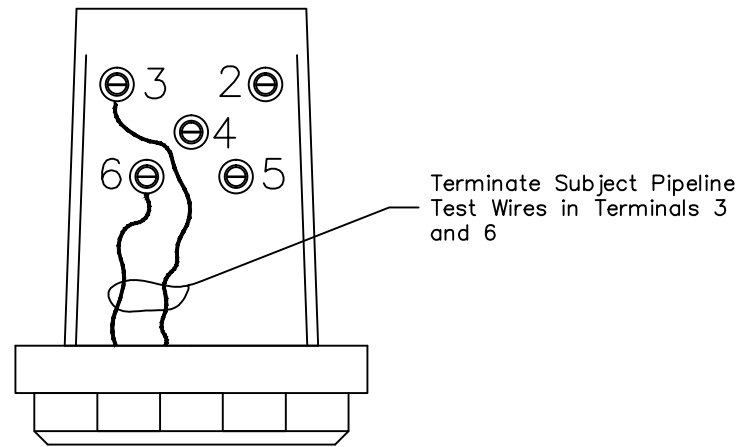
CATHODIC PROTECTION TEST STATION TYPICAL DRAWING
DUNN & STARK COUNTY, NORTH DAKOTA

KLJ

4585 Coleman Street
Bismarck, ND 58502

BOE PIPELINE PHASE I AS-CONSTRUCTED ALIGNMENT SHEETS

DUNN & STARK COUNTY, NORTH DAKOTA



Notes:

See test lead color code chart for proper test lead color coding.

Fill out TS connection chart and install in terminal cover.
RECORD ENGINEERING STATION ON LABEL.

TYPE 1 TS TERMINATIONS

D4

NTS

Test Lead Color Codes		
Structure	Wire/Cable	Tape Color
Bakken Oil Express PL	#10 HMW-PE	No Tape
Steel Foreign PL	#10 HMW-PE of Foreign preference	White Tape
Permanent Reference Electrode	factory yellow or #10 HMW-PE if spliced	Yellow Tape if Spliced

AS-CONSTRUCTED

FINAL
6/11/15

<p>LEGEND</p> <ul style="list-style-type: none"> — PROPERTY LINE - - - SECTION LINE - - - EASEMENT LINE - - - PIPELINE CENTERLINE - - - WATER LINE - - - FOREIGN PIPELINE - - - EXISTING ROAD - - - UNDERGROUND COM. LINE —*— EXISTING FENCE —FO— FIBER OPTIC COM. LINE — RAILROAD —OVERHEAD ELECTRIC — UTILITY POLE — AS-CONSTRUCTED BORE — AVOIDANCE AREA — WETLAND EASEMENT — TEST LEAD — VALVE SETTING — MARKER POST 		<p>MATERIAL SUMMARY</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MK.NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MK.NO.	QTY.	DESCRIPTION																						<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																<p>SCALE: NTS DRAWN BY: B.C. DATE: 6/11/15 CHECKED BY: — APPROVED BY: B.C. KLJ JOB NUMBER: 1713140 REVISION: — SHEET: 121</p>	<p>BOE PIPELINE, LLC</p> <p>BOE PIPELINE PHASE I CATHODIC PROTECTION TEST STATION TYPICAL DRAWING DUNN & STARK COUNTY, NORTH DAKOTA</p>	<p>4585 Coleman Street Bismarck, ND 58502</p>
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