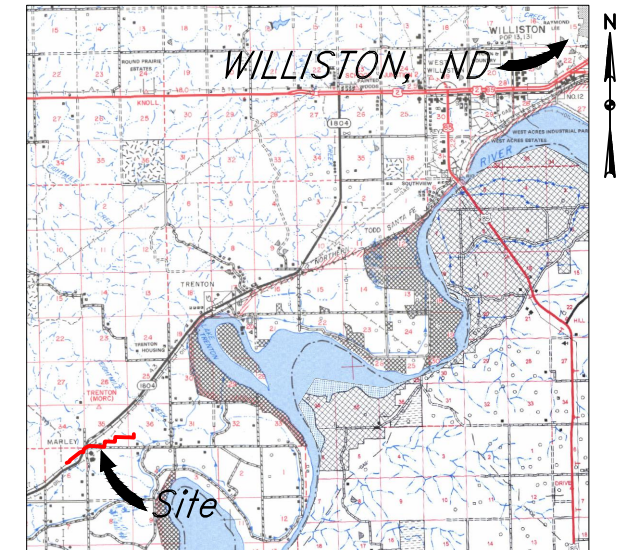
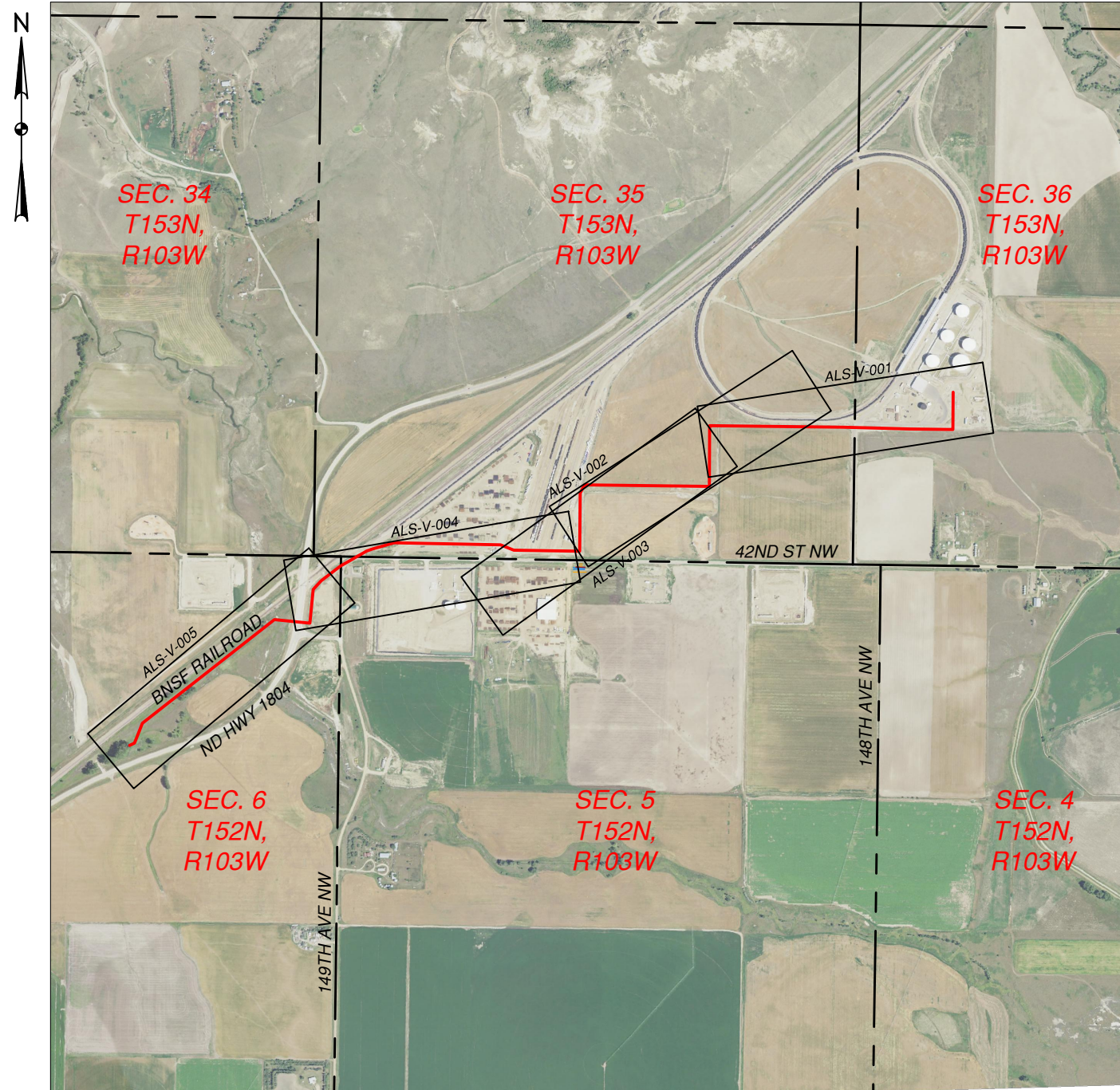


SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT AS-CONSTRUCTED ALIGNMENT SHEETS

WILLIAMS COUNTY, NORTH DAKOTA

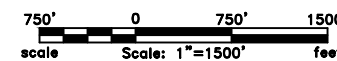


Location Map

NOTES:

1. TEMPORARY CONSTRUCTION EASEMENT (DISTURBANCE EDGE AS STAKED IN FIELD) MAY VARY IN WIDTH AND LOCATION DEPENDING ON LANDOWNER REQUEST AND EXISTING UTILITY/PIPELINE LOCATIONS.
2. ADDITIONAL UTILITY AND PIPELINE CROSSINGS MAY EXIST. ONLY THOSE AS DEPICTED IN THE FIELD, SUPPLIED BY THE CLIENT OR ARE PART OF PUBLIC RECORD ARE SHOWN.
3. SURVEY IS BASED ON NORTH DAKOTA STATE PLANE NORTH, NAD83 (96), U.S. FOOT. AZIMUTHS SHOWN ARE GRID AZIMUTHS, DISTANCES SHOWN ARE GRID DISTANCES. COMBINED SCALE FACTOR = 1.0001523 TO GO FROM GRID DISTANCE TO GROUND DISTANCE.

AS-CONSTRUCTED



CALL BEFORE YOU DIG

LEGEND	
---	EASEMENT CENTERLINE
---	PIPELINE CENTERLINE
W	WATER LINE
PL	FOREIGN PIPELINE
---	EXISTING ROAD
---	UNDERGROUND COM. LINE
X	BARBED WIRE FENCE
FO	FIBER OPTIC COM. LINE
EO	OVERHEAD ELECTRIC
---	DRAINAGE/WETLAND
□	UTILITY POLE
□	PROPOSED BORE
---	EROSION/SEDIMENT CONTROL BMP
---	WETLAND
---	AVOIDANCE AREA
⊕	VALVE SETTING
---	TEST LEAD

MATERIAL SUMMARY			REFERENCE DRAWINGS			REVISIONS				
MK.NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE
1	9262'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE			0	AS-CONSTRUCTED	AAR	CAF	CAF	8/21/17
2	1301'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO								
3	4	TEST LEAD, 12 GAUGE, DUAL								

PROJECT NUMBER:	1716218	SIZE:	B	FACILITY:	N/A
SCALE:	1"=1500'	DRAWN BY:	AAR	DATE:	8/21/2017
AREA:	N/A	CHECKED BY:	CAF	DATE:	8/21/2017
SYSTEM:	N/A	APPROVED BY:	CAF	DATE:	8/21/2017
DRAWING NUMBER:	IDX-V-001	REVISION:	0		

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
COVER SHEET
WILLIAMS COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

**SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
ALIGNMENT SHEETS**
WILLIAMS COUNTY, NORTH DAKOTA

DRAWING INDEX			REFERENCE DRAWINGS	
DRAWING NUMBER	REV.	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
IDX-V-001	0	COVER SHEET		
IDX-V-002	0	INDEX SHEET		
IDX-V-003	0	LANDOWNER STIPULATIONS & BORE LIST		
ALS-V-001	0	SECTIONS 35 & 36, T153N, R103W	BOR-V-001	DRAINAGE & 148TH AVE NW CROSSING BORE #1
ALS-V-002	0	SECTION 35, T153N, R103W		
ALS-V-003	0	SECTION 35, T153N, R103W		
ALS-V-004	0	SECTION 35, T153N, R103W & SECTIONS 5 & 6, T152N, R103W	BOR-V-002 BOR-V-003	PROPERTY & 42ND ST NW CROSSING BORE #2 ND HWY 1804 CROSSING BORE #3
ALS-V-005	0	SECTION 6, T152N, R103W	BOR-V-003	ND HWY 1804 CROSSING BORE #3
BOR-V-001	0	DRAINAGE & 148TH AVE NW CROSSING BORE #1		
BOR-V-002	0	PROPERTY & 42ND ST NW CROSSING BORE #2		
BOR-V-003	0	ND HWY 1804 CROSSING BORE #3		

AS-CONSTRUCTED

LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS				PROJECT INFORMATION				
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE	PROJECT NUMBER		SIZE
---	EASEMENT CENTERLINE					0	ISSUED FOR REVIEW	AAR	CAF	CAF	8/21/17	1716218	B	N/A
---	PIPELINE CENTERLINE											N/A		
W---	WATER LINE											N/A		
PL---	FOREIGN PIPELINE											N/A		
---	EXISTING ROAD											N/A		
----	UNDERGROUND COM. LINE											N/A		
X-X	BARBED WIRE FENCE											N/A		
FO---	FIBER OPTIC COM. LINE											N/A		
EO---	OVERHEAD ELECTRIC											N/A		
---	DRAINAGE/WETLAND											N/A		
□	UTILITY POLE											N/A		
---	PROPOSED BORE											N/A		
---	EROSION/SEDIMENT CONTROL BMP											N/A		
▨	WETLAND											N/A		
▨	AVOIDANCE AREA											N/A		
⊗	VALVE SETTING											N/A		
⚡	TEST LEAD											N/A		

PROJECT NUMBER:	1716218	SCALE:	N/A	AREA:	N/A	SYSTEM:	N/A	DRAWING NUMBER:	IDX-V-002
SIZE:	B	DRAWN BY:	AAR	CHECKED BY:	CAF	APPROVED BY:	CAF	REVISION:	0
FACILITY:	N/A	DATE:	8/21/2017	DATE:	8/21/2017	DATE:	8/21/2017		

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
INDEX SHEET
WILLIAMS COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

**SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
ALIGNMENT SHEETS
WILLIAMS COUNTY, NORTH DAKOTA**

LANDOWNERS STIPULATIONS		
NAME	LEGALS	COMMENTS
YELLOWSTONE ETHANOL LLC	B1L2 ETHANOL PLANT SUB 36-153-103; B1L1 ETHANOL PLANT SUB, B3L1 GIBBONS SUB & B3L2 GIBBONS SUB 35-153-103	
TRINITY LUTHERAN CHURCH	250'X420' IN L4 5-152-103	
SAVAGE SERVICES CORPORATION	SUBLOT 1 IN GOVT L1 AND L1 EX DD PTS & STATE; L8 EX STATE; L9 EX RR & HWY AND L2, L7 & L10 EX RR, HWY 6-152-103	
STATE OF NORTH DAKOTA	ST HWY IN L1, 8, 9 6-153-103	

BORE LIST						
BORE NO.	STATIONING	TYPE	COMMENTS	LENGTH	SECTION	SHEET
1	13+25.11	COUNTY	DRAINAGE & 148TH AVE NW	655'	36-153-103 35-153-103	ALS-V-001
2	74+42.27	PRIVATE/ COUNTY	PROPERTY & 42ND ST NW	298'	35-153-103 5-152-103 6-152-103	ALS-V-004
3	84+16.41	STATE	ND HWY 1804	348'	6-152-103	ALS-V-004 ALS-V-005

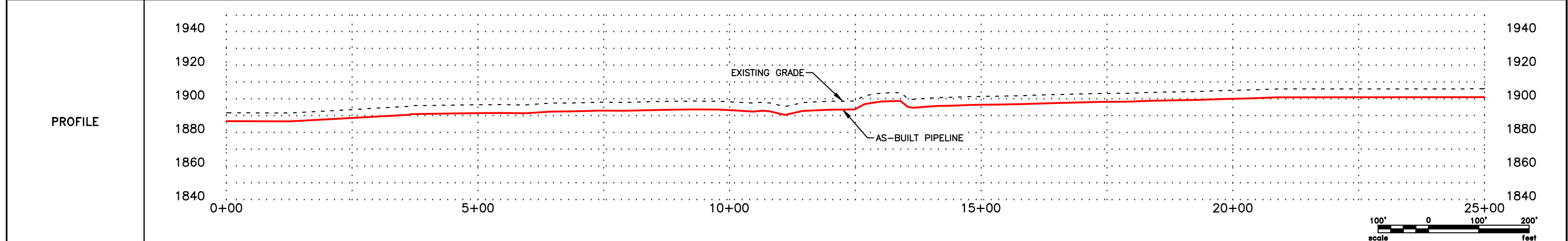
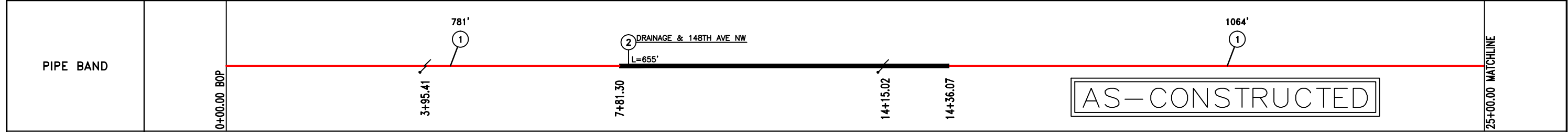
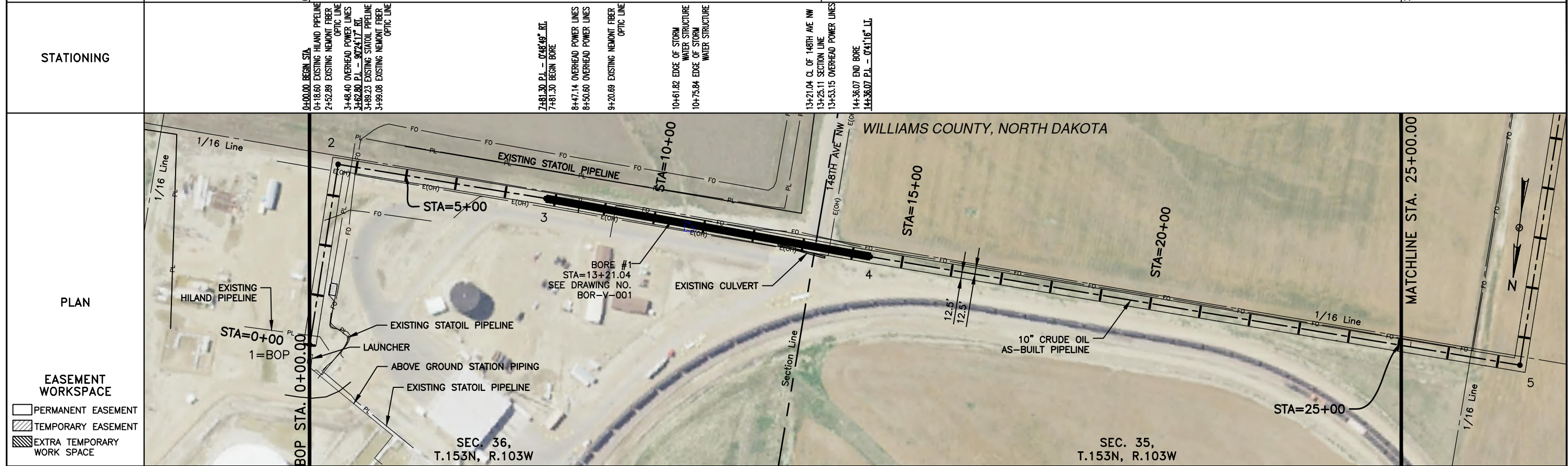
GENERAL STIPULATIONS:

- ALL FENCES AND GATES ARE TO BE CLOSED AND/OR FIXED DURING EASEMENT WORK (IF APPLICABLE). THEY ARE TO BE REPAIRED BACK TO ORIGINAL OR BETTER STATE.
- SHOULD THE R.O.W. BECOME EXCEEDINGLY WET, TO WHERE CONSTRUCTION EQUIPMENT IS CREATING EXCESSIVE SURFACE DAMAGE, IE: DEEP RUTS, CONSTRUCTION WILL HALT UNTIL AREA DRIES OUT.
- ALL TRASH, INCLUDING CONSTRUCTION MATERIALS, AND ITEMS NOT NATURAL TO THE AREA WILL BE CLEANED UP WHEN CONSTRUCTION ON R.O.W. IS COMPLETE, IF NOT PRIOR TO END OF CONSTRUCTION.

AS-CONSTRUCTED

LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS				PROJECT INFORMATION				
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE	PROJECT NUMBER		
---	EASEMENT CENTERLINE					0	ISSUED FOR REVIEW	AAR	CAF	CAF	8/21/17	1716218	N/A	N/A
---	PIPELINE CENTERLINE													
W	WATER LINE													
PL	FOREIGN PIPELINE													
---	EXISTING ROAD													
---	UNDERGROUND COM. LINE													
X	BARBED WIRE FENCE													
FO	FIBER OPTIC COM. LINE													
EO	OVERHEAD ELECTRIC													
---	DRAINAGE/WETLAND													
□	UTILITY POLE													
---	PROPOSED BORE													
---	EROSION/SEDIMENT CONTROL BMP													
---	WETLAND													
---	AVOIDANCE AREA													
---	VALVE SETTING													
---	TEST LEAD													
SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT LANDOWNER STIPULATIONS & BORE LIST WILLIAMS COUNTY, NORTH DAKOTA												4585 Coleman Street Bismarck, ND 58503		

OWNERSHIP	0+00.00	YELLOWSTONE ETHANOL LLC B1L2 ETHANOL PLANT SUB 1325.11 FEET 80.31 RODS		13+25.11	YELLOWSTONE ETHANOL LLC B1L1 ETHANOL PLANT SUB 1174.89 FEET 71.21 RODS		25+00.00
	STATIONING	0+00.00 BEGIN STA	7+81.30 P.L. - 0+48.40' BT 7+81.30 BEGIN BORE	8+47.14 OVERHEAD POWER LINES 8+50.60 OVERHEAD POWER LINES	10+61.82 EDGE OF STORM WATER STRUCTURE 10+75.64 EDGE OF STORM WATER STRUCTURE	13+21.04 CL OF 148TH AVE NW 13+25.11 SECTION LINE 13+53.15 OVERHEAD POWER LINES	14+36.07 END BORE 14+36.07 P.L. - 0+41'16" LT



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS				PROJECT INFORMATION		DRAWING INFORMATION	
---	EASEMENT CENTERLINE	□	UTILITY POLE	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE
---	PIPELINE CENTERLINE	▬	PROPOSED BORE	1	1845'	BOR-V-001	DRAINAGE 148TH AVE NW CROSSING BORE #1	0	AS-CONSTRUCTED	AAR	CAF	CAF	8/21/17
---	WATER LINE	▬	EROSION/SEDIMENT CONTROL BMP	2	655'								
---	FOREIGN PIPELINE	▬	WETLAND	3	2								
---	EXISTING ROAD	▬	AVOIDANCE AREA										
---	UNDERGROUND COM. LINE	▬	VALVE SETTING										
---	BARBED WIRE FENCE	▬	TEST LEAD										
---	FIBER OPTIC COM. LINE	▬											
---	OVERHEAD ELECTRIC	▬											
---	DRAINAGE/WETLAND	▬											

YELLOWSTONE ETHANOL LLC

B1L1 ETHANOL PLANT SUB
1500.00 FEET
90.91 RODS

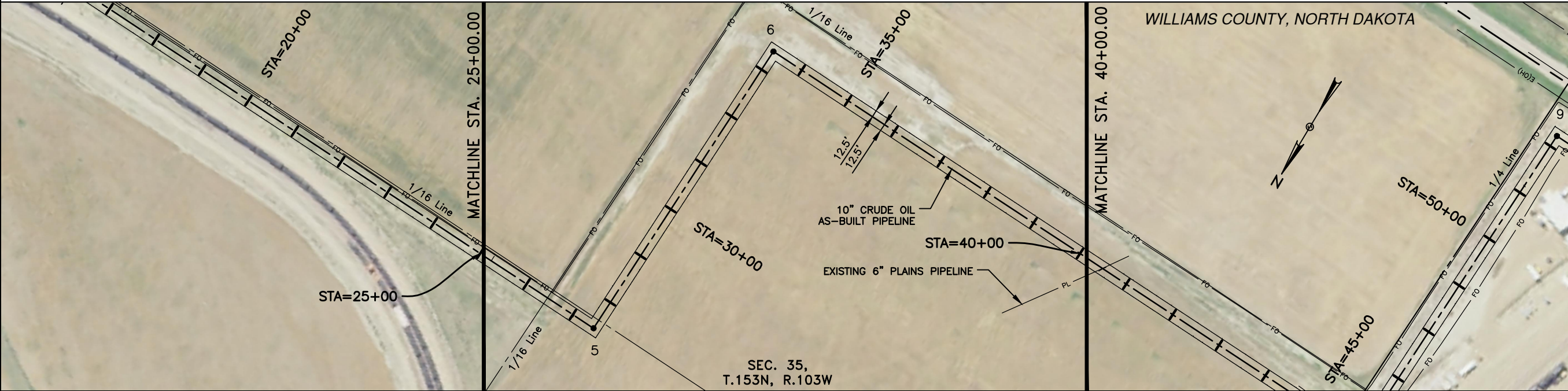
OWNERSHIP

STATIONING

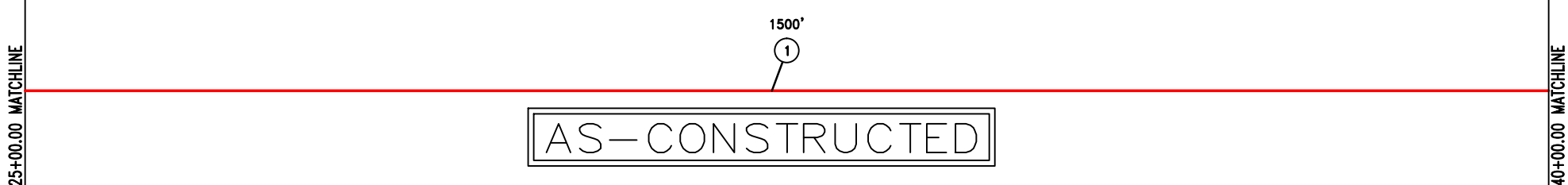
PLAN

EASEMENT WORKSPACE

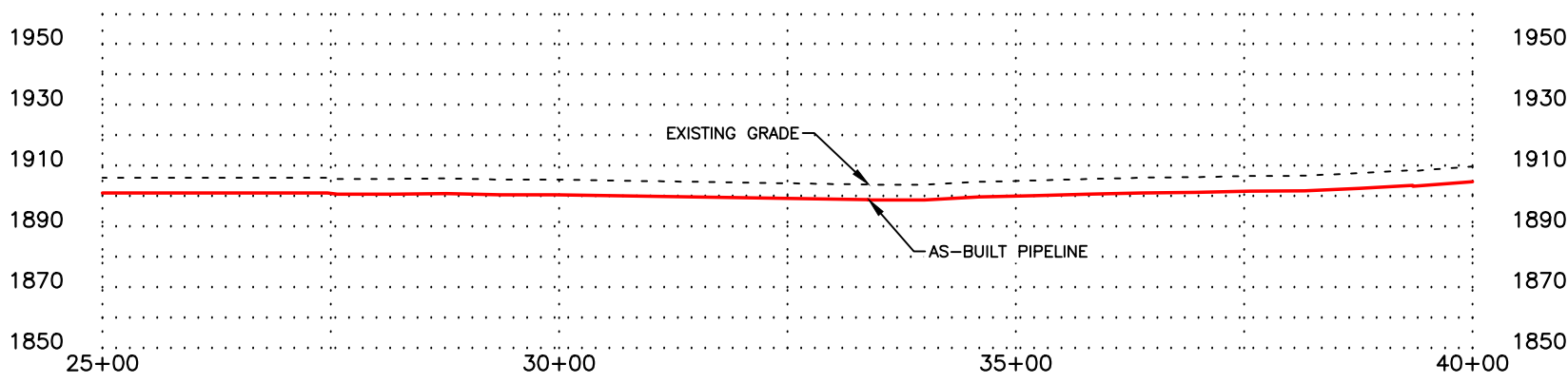
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE



PIPE BAND



PROFILE



LEGEND

	EASEMENT CENTERLINE		UTILITY POLE
	PIPELINE CENTERLINE		PROPOSED BORE
	WATER LINE		EROSION/SEDIMENT CONTROL BMP
	FOREIGN PIPELINE		WETLAND
	EXISTING ROAD		AVOIDANCE AREA
	UNDERGROUND COM. LINE		VALVE SETTING
	BARBED WIRE FENCE		TEST LEAD
	FIBER OPTIC COM. LINE		
	OVERHEAD ELECTRIC		
	DRAINAGE/WETLAND		

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
1	1500'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE

REFERENCE DRAWINGS

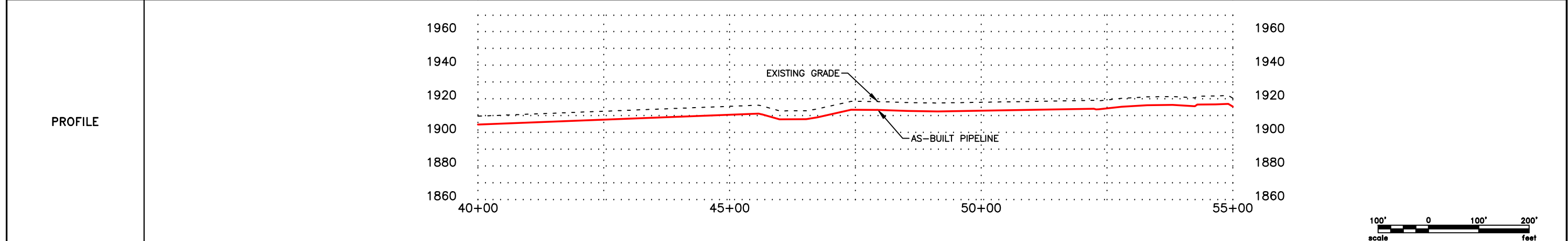
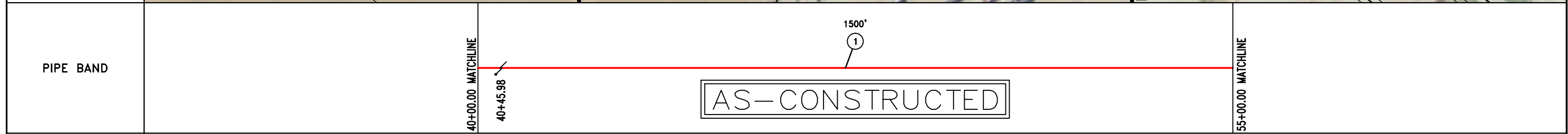
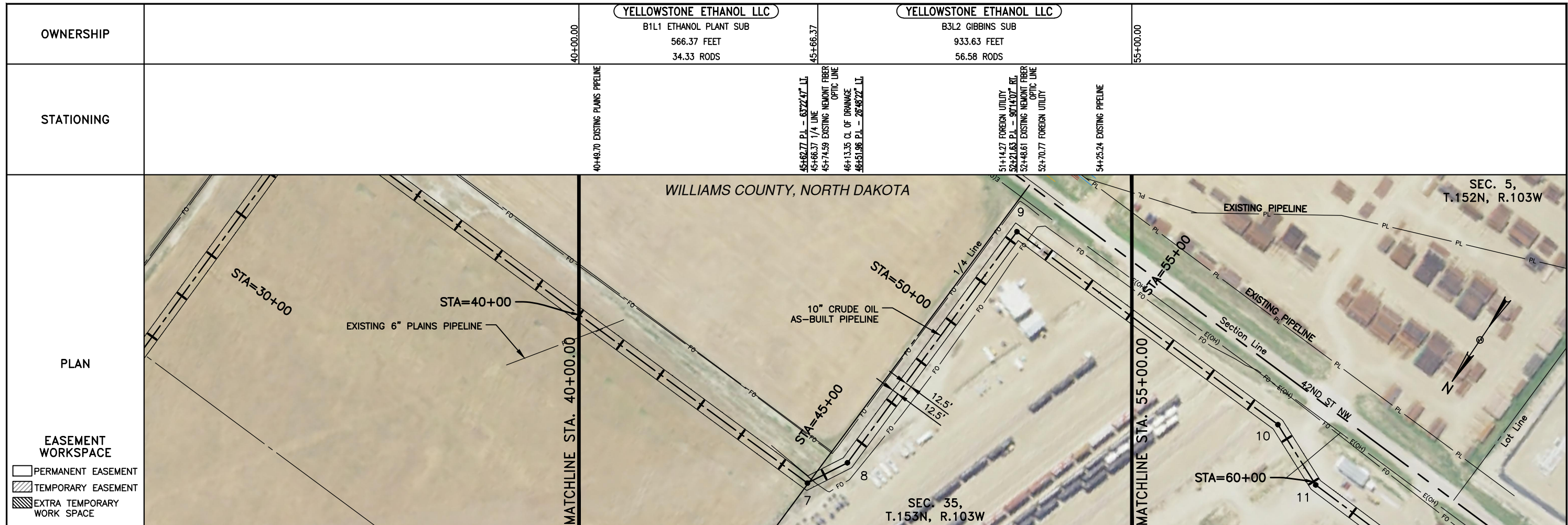
DWG. NO.	DESCRIPTION	NO.
		0

REVISIONS

DWN.	CHK.	APP.	DATE	DESCRIPTION
AAR	CAF	CAF	8/21/17	AS-CONSTRUCTED

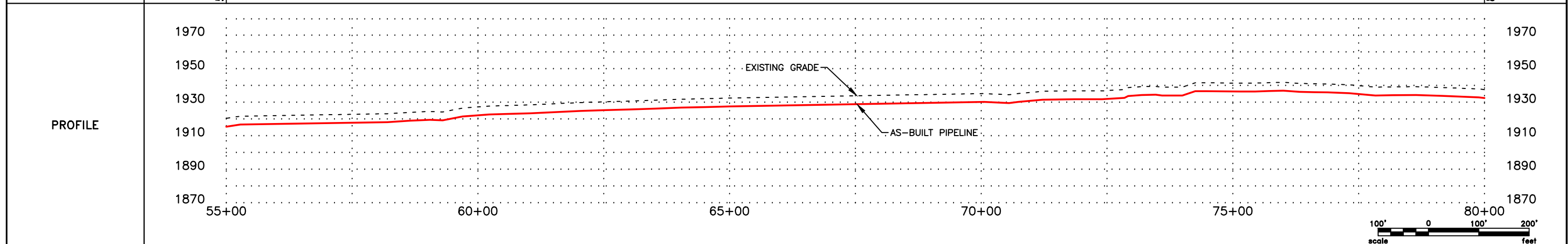
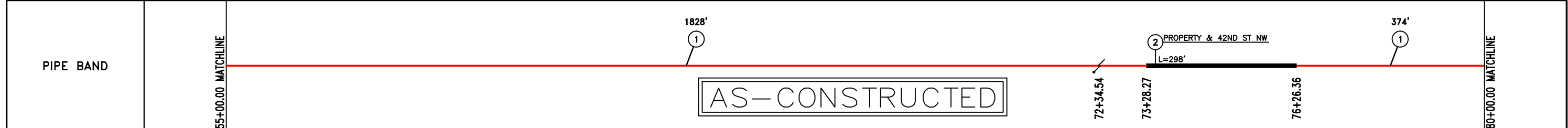
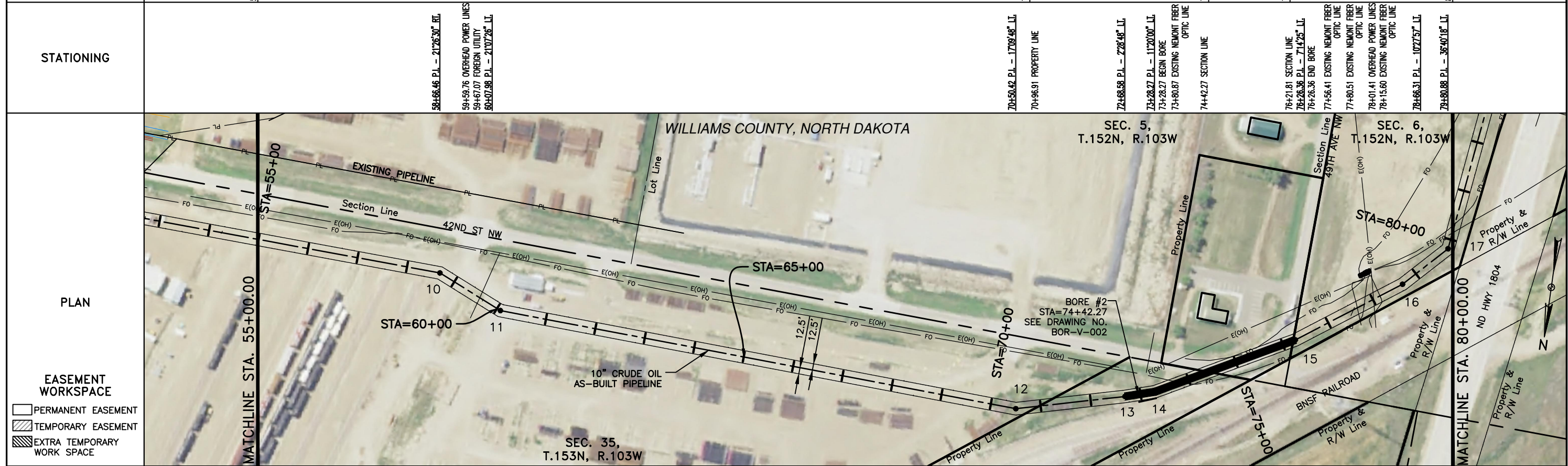
PROJECT NUMBER: 1716218
SCALE: 1"=200'
AREA: N/A
SYSTEM: N/A
DRAWING NUMBER: ALS-V-002

SAVAGE
KLJ
SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
SECTION 35, T153N, R103W
WILLIAMS COUNTY, NORTH DAKOTA
4585 Coleman Street
Bismarck, ND 58503
© KLJ 2017



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS				PROJECT INFORMATION				
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE	PROJECT NUMBER	SIZE	FACILITY
---	EASEMENT CENTERLINE	1	1500'			0	AS-CONSTRUCTED	AAR	CAF	CAF	8/21/17	1716218	B	N/A
---	PIPELINE CENTERLINE													
W	WATER LINE													
PL	FOREIGN PIPELINE													
---	EXISTING ROAD													
---	UNDERGROUND COM. LINE													
X	BARBED WIRE FENCE													
FO	FIBER OPTIC COM. LINE													
E(O)	OVERHEAD ELECTRIC													
---	DRAINAGE/WETLAND													
□	UTILITY POLE													
---	PROPOSED BORE													
---	EROSION/SEDIMENT CONTROL BMP													
---	WETLAND													
---	AVOIDANCE AREA													
---	VALVE SETTING													
---	TEST LEAD													

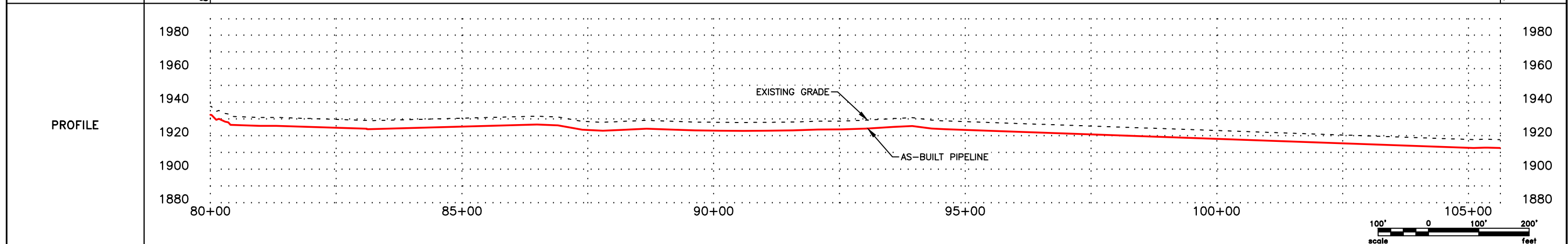
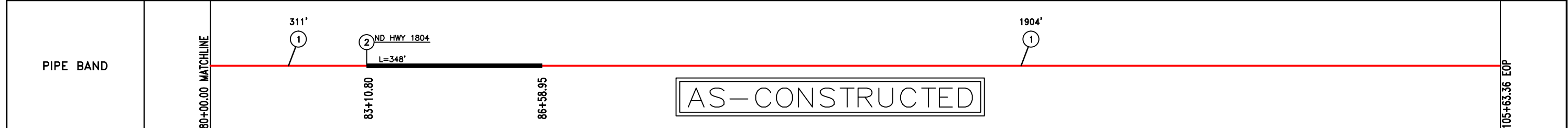
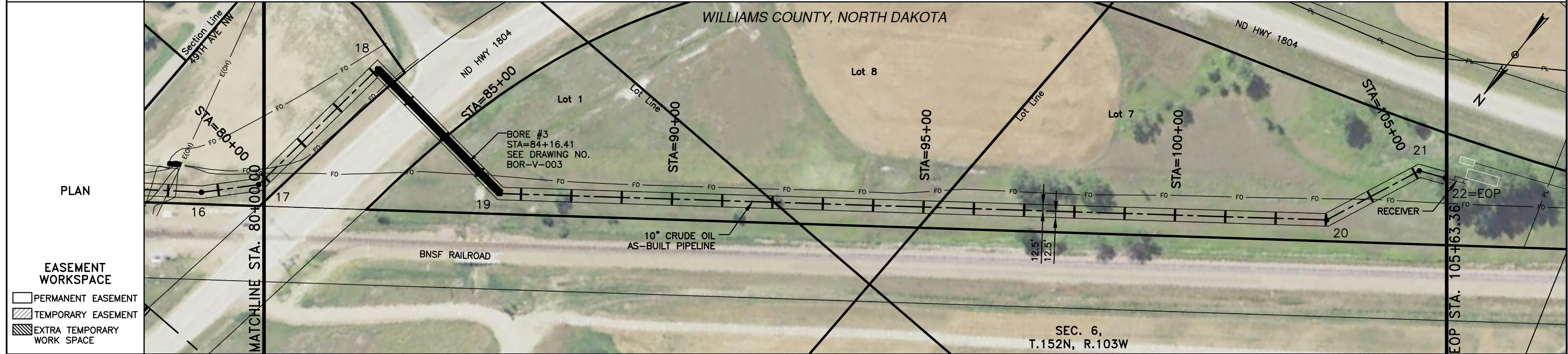
OWNERSHIP	55+00.00	YELLOWSTONE ETHANOL LLC B3L2 GIBBINS SUB 1596.91 FEET 96.78 RODS	70+96.91	YELLOWSTONE ETHANOL LLC B3L1 GIBBINS SUB 345.36 FEET 20.93 RODS	74+42.27	250'X420' IN L4 179.54 FEET 10.88 RODS	76+21.81	TRINITY LUTHERAN CHURCH SUBLOT 1 IN GOVT L1 378.19 FEET 22.92 RODS	80+00.00	SAVAGE SERVICES CORPORATION
	STATIONING	58+66.46 P.L. - 21'26"30" RT. 59+59.76 OVERHEAD POWER LINES 59+67.07 FOREIGN UTILITY 60+07.98 P.L. - 21'07"26" LT.	70+50.42 P.L. - 17'08"48" LT. 70+96.91 PROPERTY LINE	72+68.58 P.L. - 2'28"48" LT. 73+28.27 P.L. - 11'20"00" LT. 73+26.27 BEGIN BORE 73+80.87 EXISTING NEMONT FIBER OPTIC LINE 74+42.27 SECTION LINE	76+21.81 SECTION LINE 76+26.36 P.L. - 7'14"25" LT. 76+26.36 END BORE 77+56.41 EXISTING NEMONT FIBER OPTIC LINE 77+80.51 EXISTING NEMONT FIBER OPTIC LINE 78+01.41 OVERHEAD POWER LINES 78+15.60 EXISTING NEMONT FIBER OPTIC LINE 78+66.31 P.L. - 10'27"57" LT. 79+80.88 P.L. - 36'40"18" LT.					



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS				PROJECT INFORMATION			
MK.NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE	PROJECT NUMBER	SIZE	FACILITY
1	2202'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE	BOR-V-002	PROPERTY & 42ND ST NW CROSSING BORE #2	0	AS-CONSTRUCTED	AAR	CAF	CAF	8/21/17	1716218	B	N/A
2	298'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO									SCALE: 1"=200'		
3	1	TEST LEAD, 12 GUAGE, DUAL									AREA: N/A		
											CHECKED BY: CAF		
											DATE: 8/21/2017		
											SYSTEM: N/A		
											APPROVED BY: CAF		
											DATE: 8/21/2017		
											DRAWING NUMBER: ALS-V-004		
											REVISION: 0		

OWNERSHIP	SAVAGE SERVICES CORPORATION	SUBLOT 1 IN GOVT L1 351.88 FEET 21.33 RODS	STATE OF NORTH DAKOTA ST HWY IN L1, 8, 9 150.54 FEET 9.12 RODS	SAVAGE SERVICES CORPORATION L1 EX DD PATS & STATE; L8 EX STATE; L9 EX RR & HWY 1022.39 FEET 61.96 RODS	SAVAGE SERVICES CORPORATION L2, L7 & L10 EX RR, HWY 1038.55 FEET 62.94 RODS	105+63.36
-----------	-----------------------------	--	---	---	--	-----------

STATIONING	80+00.00	83+51.88	85+02.42	92+03.12	95+24.81	103+01.56	103+07.06	105+10.02	105+63.36
------------	----------	----------	----------	----------	----------	-----------	-----------	-----------	-----------



LEGEND	
--- EASEMENT CENTERLINE	□ UTILITY POLE
— PIPELINE CENTERLINE	▬ PROPOSED BORE
W WATER LINE	▬ EROSION/SEDIMENT CONTROL BMP
PL FOREIGN PIPELINE	▬ WETLAND
--- EXISTING ROAD	▬ AVOIDANCE AREA
--- UNDERGROUND COM. LINE	▬ VALVE SETTING
--- BARBED WIRE FENCE	⊗ TEST LEAD
--- FIBER OPTIC COM. LINE	
--- OVERHEAD ELECTRIC	
--- DRAINAGE/WETLAND	

MATERIAL SUMMARY		
MK.NO.	QTY.	DESCRIPTION
1	2215'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE
2	348'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
BOR-V-003	ND HWY 1804 CROSSING BORE #1

REVISIONS			
NO.	DESCRIPTION	DWN.	CHK.
0	AS-CONSTRUCTED	AAR	CAF

PROJECT NUMBER: 1716218	SIZE: B	FACILITY: N/A
SCALE: 1"=200'	DRAWN BY: AAR	DATE: 8/21/2017
AREA: N/A	CHECKED BY: CAF	DATE: 8/21/2017
SYSTEM: N/A	APPROVED BY: CAF	DATE: 8/21/2017
DRAWING NUMBER: ALS-V-005	REVISION: 0	

SAVAGE **KLJ**

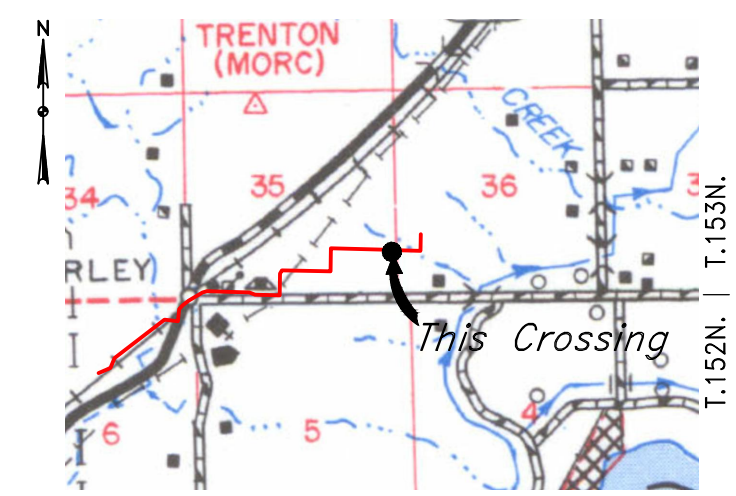
SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
SECTION 6, T152N, R103W
WILLIAMS COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503
© KLJ 2017

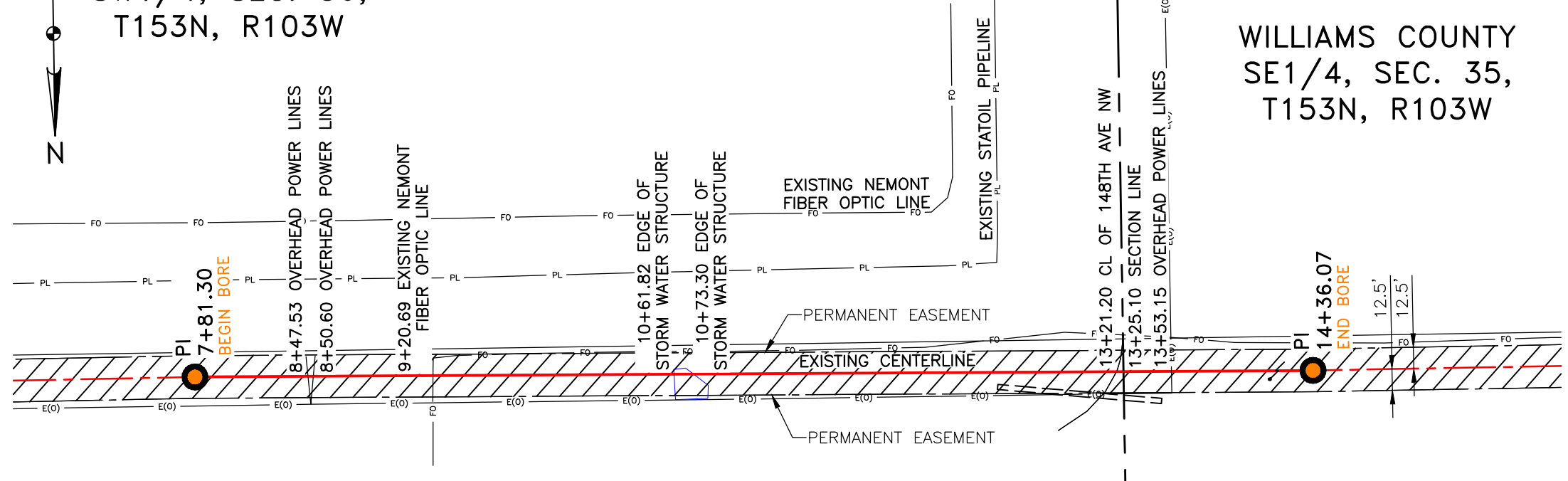
WILLIAMS COUNTY
SW1/4, SEC. 36,
T153N, R103W

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT DRAINAGE & 148TH AVE NW CROSSING AS-BUILT BORE #1

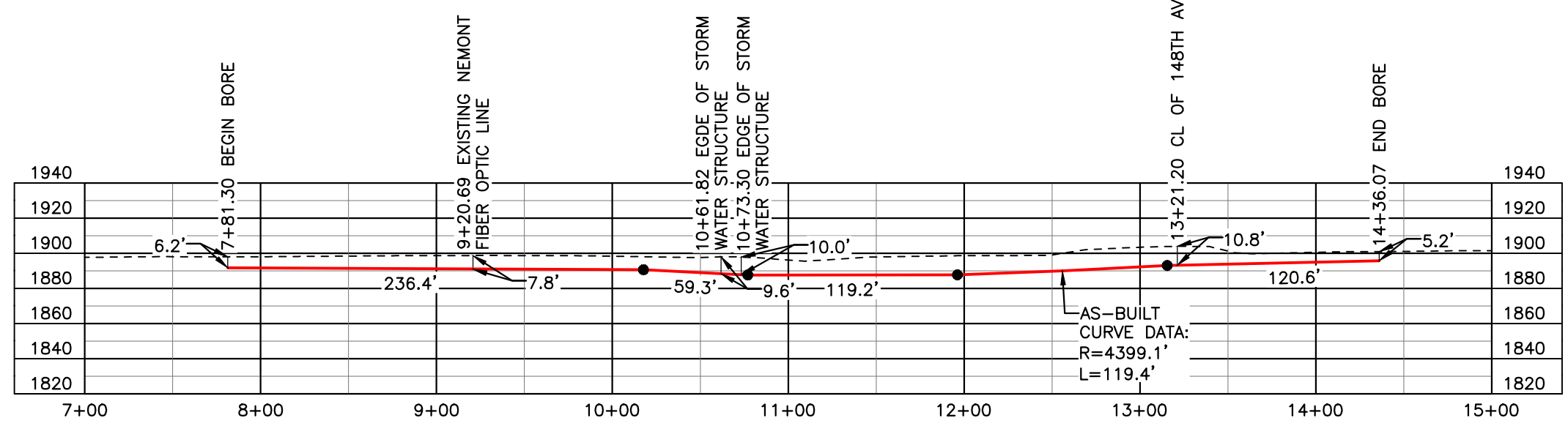
WILLIAMS COUNTY
SE1/4, SEC. 35,
T153N, R103W



R.103W.
Location Map

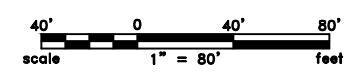


PIPE SPECIFICATION
Contents: Crude Oil
Carrier Pipe: 10.75" O.D., 0.365" W.T. API 5L X52, ERW
Coating: 14-16 mils FBE & 30 mils ARO



LEGEND

AS-BUILT PIPELINE



TOTAL HORIZONTAL DISTANCE = 654.77 FT.
TOTAL PIPELINE LENGTH = 654.90 FT.

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	7+81.30	48°01'41.28" N	103°52'56.59" W
END BORE	14+36.07	48°01'41.35" N	103°53'06.23" W

AS-CONSTRUCTED

LEGEND

—	PIPELINE CENTERLINE	□	UTILITY POLE
—	WATER LINE	—	PROPOSED BORE
—	FOREIGN PIPELINE	—	EROSION/SEDIMENT CONTROL BMP
—	EXISTING ROAD	—	WETLAND
—	UNDERGROUND COM. LINE	—	AVOIDANCE AREA
—	BARBED WIRE FENCE	—	TEST LEAD
—	FIBER OPTIC COM. LINE	—	VALVE SETTING
—	RAILROAD		
—	OVERHEAD ELECTRIC		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	655'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO
3	1	TEST LEAD, 12 GAUGE, DUAL

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.
	AS-CONSTRUCTED	0

REVISIONS

DWN.	CHK.	APP.	DATE	DESCRIPTION
AAR	CAF	CAF	8/21/17	

PROJECT NUMBER: 1716218
SCALE: 1" = 80'
AREA: N/A
SYSTEM: N/A
DRAWING NUMBER: BOR-V-001

SAVAGE
KLJ

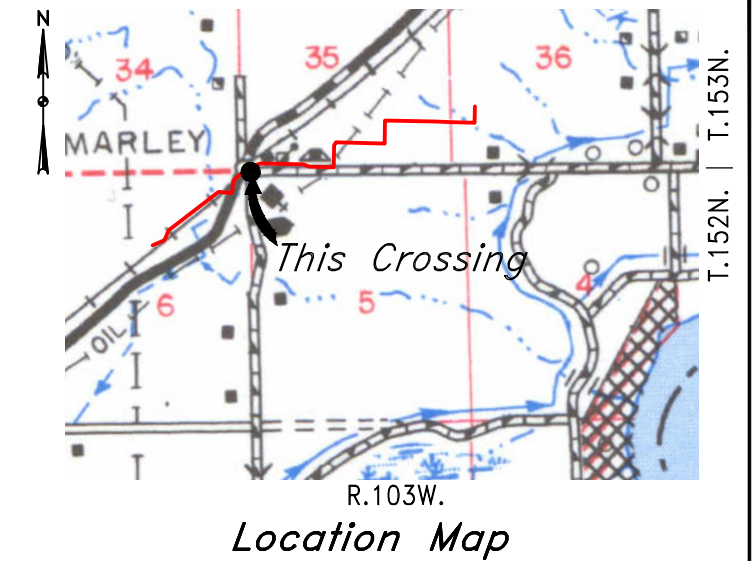
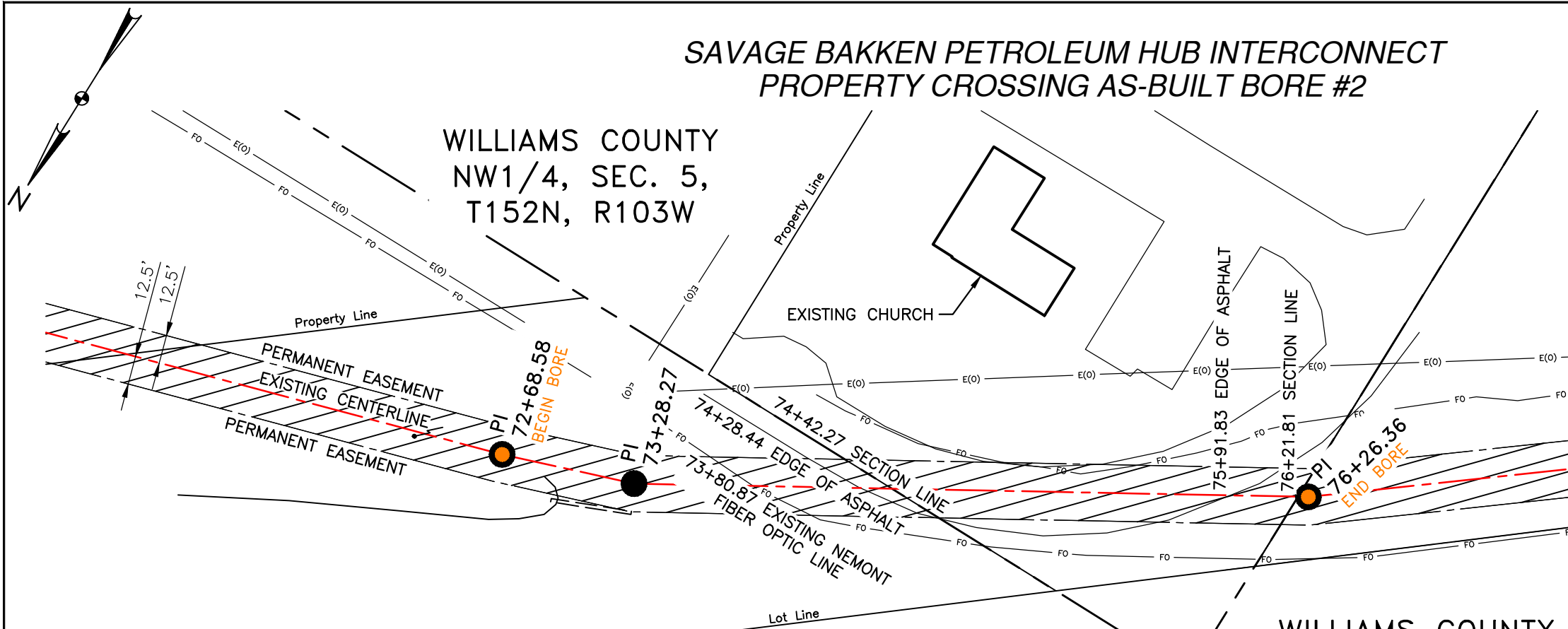
4585 Coleman Street
Bismarck, ND 58503

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT PROPERTY CROSSING AS-BUILT BORE #2

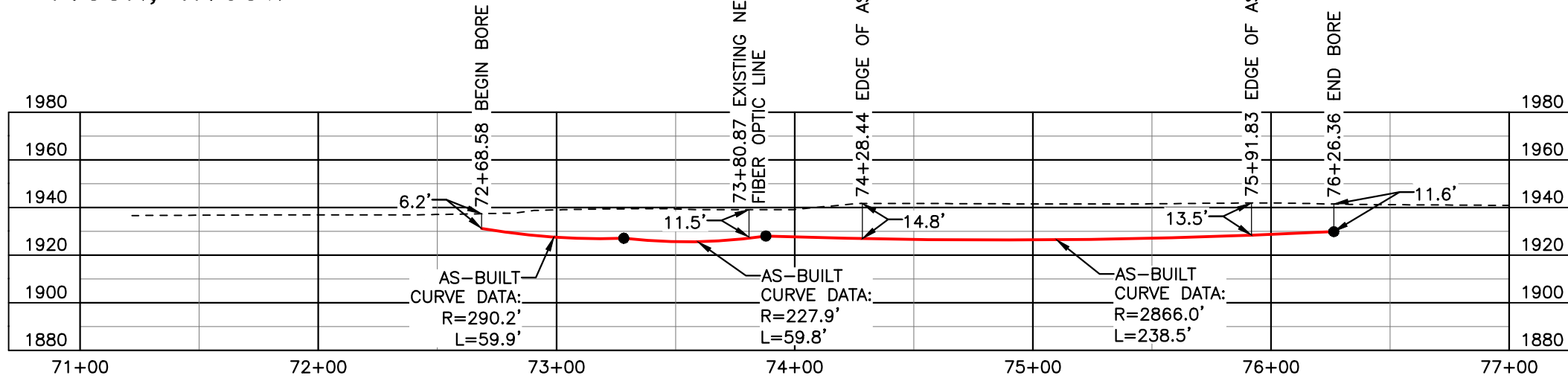
WILLIAMS COUNTY
NW1/4, SEC. 5,
T152N, R103W

WILLIAMS COUNTY
SW1/4, SEC. 35,
T153N, R103W

WILLIAMS COUNTY
NE1/4, SEC. 6,
T152N, R103W



PIPE SPECIFICATION
 Contents: Crude Oil
 Carrier Pipe: 10.75" O.D., 0.365" W.T. API 5L X52, ERW
 Coating: 14-16 mils FBE & 30 mils ARO



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	72+68.58	48°01'28.91" N	103°54'13.77" W
END BORE	76+26.36	48°01'27.21" N	103°54'18.37" W

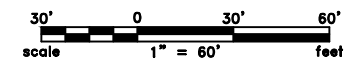
AS-CONSTRUCTED

TOTAL HORIZONTAL DISTANCE = 357.78 FT.

TOTAL PIPELINE LENGTH = 358.20 FT.

LEGEND

AS-BUILT PIPELINE



LEGEND

— PIPELINE CENTERLINE	□ UTILITY POLE
— WATER LINE	□ PROPOSED BORE
— PL FOREIGN PIPELINE	▨ EROSION/SEDIMENT CONTROL BMP
— EXISTING ROAD	▨ WETLAND
— UNDERGROUND COM. LINE	▨ AVOIDANCE AREA
— BARBED WIRE FENCE	— TEST LEAD
— FO FIBER OPTIC COM. LINE	— VALVE SETTING
— RAILROAD	
— E(O) OVERHEAD ELECTRIC	

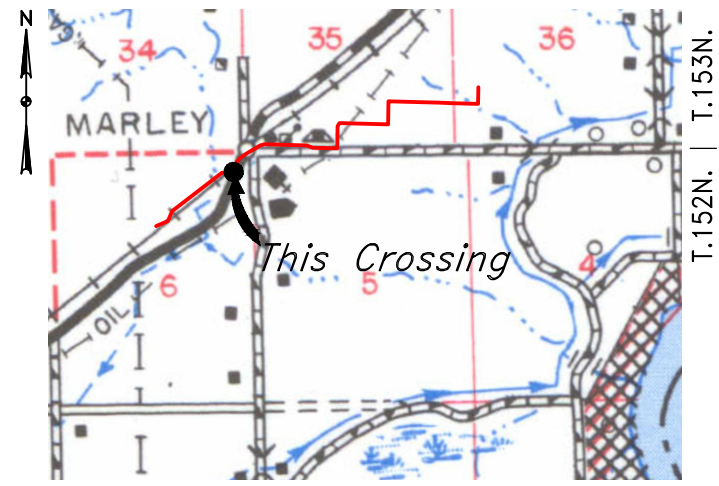
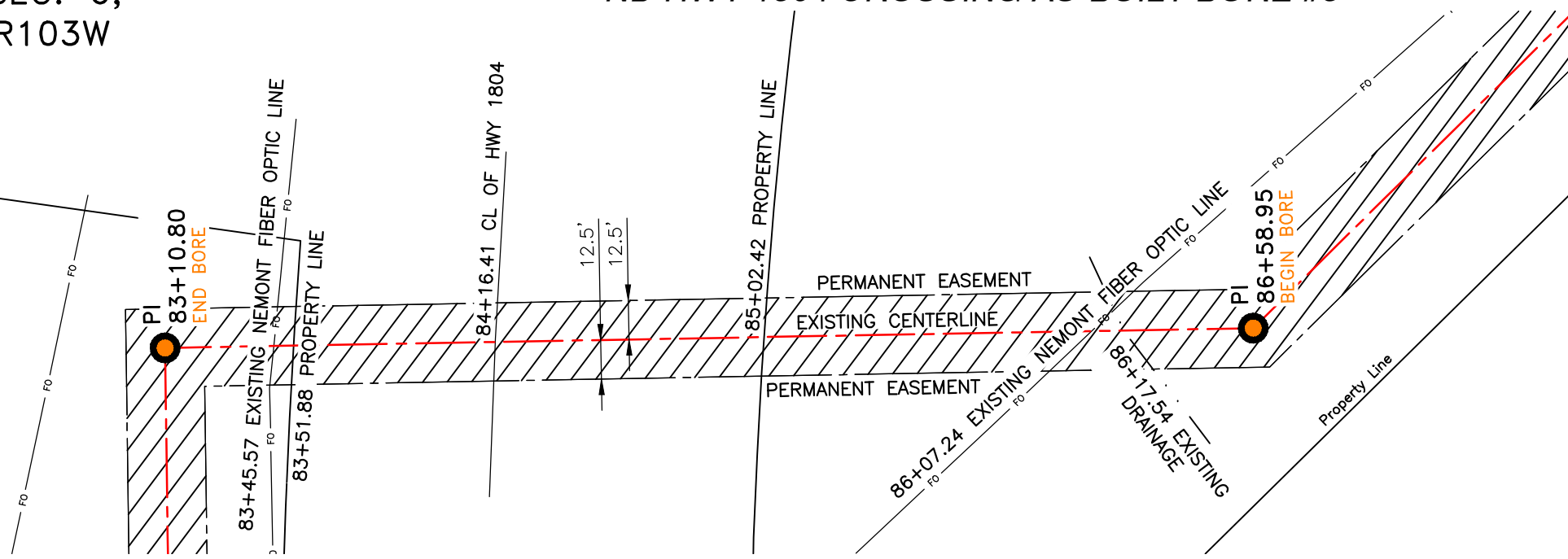
MATERIAL SUMMARY			REFERENCE DRAWINGS			REVISIONS				
MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DWN.	CHK.	APP.	DATE
2	358'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO			0	AS-CONSTRUCTED	AAR	CAF	CAF	8/21/17
3	1	TEST LEAD, 12 GAUGE, DUAL								

PROJECT NUMBER:	SIZE:	FACILITY:
1716218	B	N/A
SCALE:	DRAWN BY:	DATE:
1" = 60'	RCH	8/21/2017
AREA:	CHECKED BY:	DATE:
N/A	AAR	8/21/2017
SYSTEM:	APPROVED BY:	DATE:
N/A	CAF	8/21/2017
DRAWING NUMBER:	REVISION:	
BOR-V-002	0	

**SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
PROPERTY CROSSING AS-BUILT BORE #2
WILLIAMS COUNTY, NORTH DAKOTA**

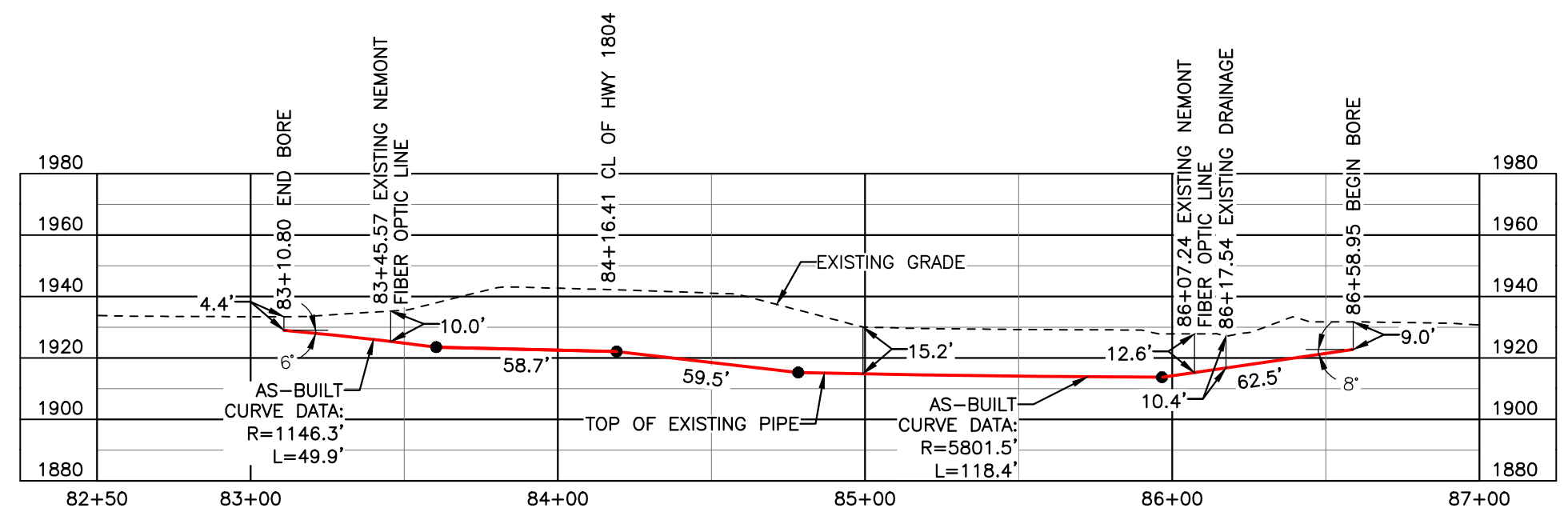
WILLIAMS COUNTY
NE1/4, SEC. 6,
T152N, R103W

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
ND HWY 1804 CROSSING AS-BUILT BORE #3



Location Map

PIPE SPECIFICATION
Contents: Crude Oil
Carrier Pipe: 10.75" O.D., 0.365" W.T. API 5L X52, ERW
Coating: 14-16 mils FBE & 30 mils ARO



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	86+58.95	48°01'21.94" N	103°54'27.78" W
END BORE	83+10.80	48°01'21.66" N	103°54'22.68" W

AS-CONSTRUCTED

TOTAL HORIZONTAL DISTANCE = 348.15 FT.
TOTAL PIPELINE LENGTH = 349.00 FT.

LEGEND

AS-BUILT PIPELINE

LEGEND

— PIPELINE CENTERLINE	□ UTILITY POLE
— WATER LINE	□ PROPOSED BORE
— PL FOREIGN PIPELINE	▨ EROSION/SEDIMENT CONTROL BMP
— EXISTING ROAD	▨ WETLAND
— UNDERGROUND COM. LINE	▨ AVOIDANCE AREA
— BARBED WIRE FENCE	— TEST LEAD
— FO FIBER OPTIC COM. LINE	— VALVE SETTING
— RAILROAD	
— (E) OVERHEAD ELECTRIC	

MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS			
MK. NO.	QTY.	DESCRIPTION	DWG. NO.	NO.	DESCRIPTION	DWN.	CHK.
2	349'	10.75" O.D., 0.365" W.T. API 5L X52, ERW, 14-16 mil FBE, 30 mil ARO		0	AS-CONSTRUCTED	AAR	CAF
3	349'	12 STRAND FIBER OPTIC IN 2" CONDUIT					

PROJECT NUMBER:	SIZE:	FACILITY:
1716218	B	N/A
SCALE:	DRAWN BY:	DATE:
1" = 50'	RCH	8/21/2017
AREA:	CHECKED BY:	DATE:
N/A	AAR	8/21/2017
SYSTEM:	APPROVED BY:	DATE:
N/A	CAF	8/21/2017
DRAWING NUMBER:	REVISION:	
BOR-V-003	0	

SAVAGE

KLJ

SAVAGE BAKKEN PETROLEUM HUB INTERCONNECT
ND HWY 1804 CROSSING AS-BUILT BORE #3
WILLIAMS COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503