

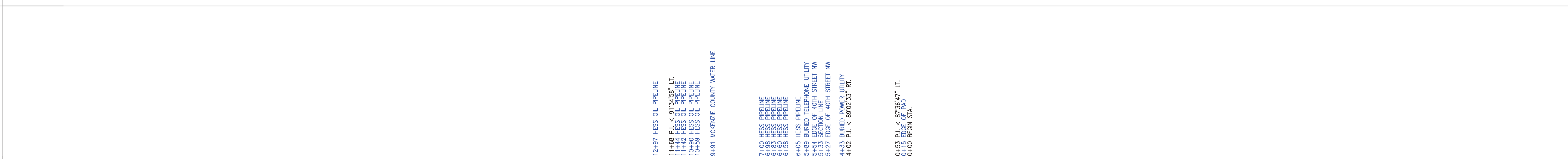
COUNTY, STATE	S-T-R
OWNERSHIP	
ROW	
FOOTAGE	
RODDAGE	
ENVIRONMENTAL	

STATIONING	13+00	MCKENZIE, NORTH DAKOTA SEC. 8, T152N, R95W KENNETH A MOGEN SE4 50 FEET PERMANENT 767 FEET 46 RODS	5+33	MCKENZIE, NORTH DAKOTA SEC. 17, T152N, R95W TARGA ASSETS LLC NE4 50 FEET PERMANENT 533 FEET 32 RODS	0+00
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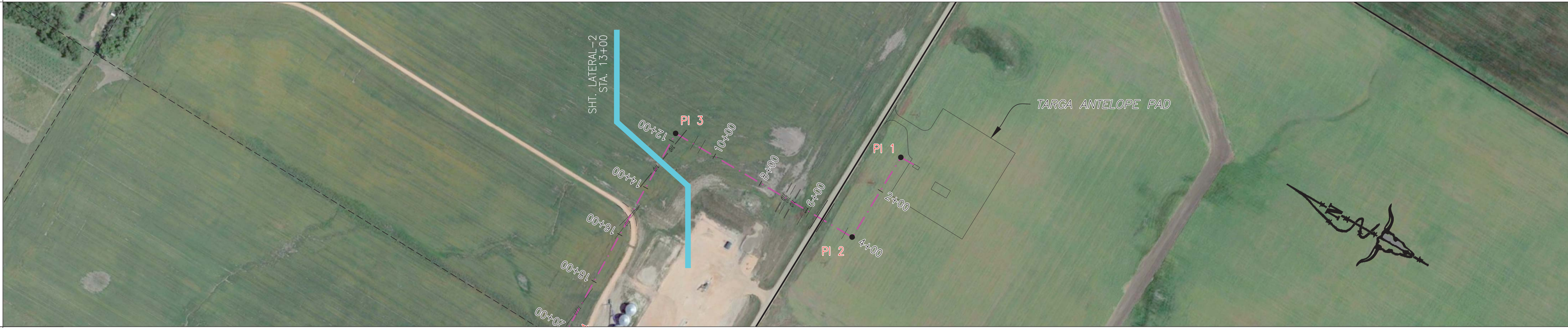
TERRITORIAL LANDWORKS, INC.
 CIVIL ENGINEERING • SURVEYING • LAND USE CONSULTING
 www.TerritorialLandworks.com
 Phone: 406/721-6142 PO Box 3551
 Fax: 406/721-5224 Missoula, MT 59806

DRAFTER	AJ	
DRAFT DATE	11/03/2016	
CHECK BY	ZJ	
APP. BY	SRL	
PROJECTION	ND ST PLANE - 3301 NORTH - SURVEY FT GRID	
DATUM	NAVD88-NAD83 (2011) (2010)	
SURVEYED	SURVEY GRADE GPS	
CSF	1.0001784438	
TLI NO.	16-3953.002	
REV	DESCRIPTION	DATE
0		

STATIONING



PIPELINE ALIGNMENT PLAN VIEW



MATERIAL

WELD	STA.	WELD NO.	PIPE NO.	HEAT NO.
	12+54	WR192	TU182	7773512
	12+12	WR181	TU180	SP08161
	11+79	WR467	TU127	72305
	11+74	WR468	TU174	66476
	11+35	WR469	TU196	66478
	10+94	WR438	TU067	SP04816
	10+52	WR439	TU066	66479
	9+69	WR440	TU320	66476
	9+32	WR177	TU175	7750460
	8+90	WR176	TU172	SP04464
	8+48	WR175	TU171	7750886
	8+16	WR474	TU145	SP08161
	7+81	WR471	TU146	187201
	7+42	WR193	TU194	66476
	7+00	WR192	TU192	66476
	6+58	WR191	TU191	66479
	6+16	WR190	TU190	65386
	5+74	WR188	TU188	65395
	4+96	WR186	TU187	66476
	4+46	WR185	TU186	66476
	4+20	WR511	TU178A	9521
	4+11	WR513	TU186C	66476
	4+07	WR514	TU176	66476
	3+69	WR478	TU177	64034
	3+27	WR479	TU178	65386
	2+86	WR480	TU185	66478
	2+40	WR482	TU175	66478
	1+19	WR484	TU436	7180679
	0+74	WR485	TU288A	66476
	0+57	WR516	TU441	923476
	0+08	WR483	TU443	1931
	0+00	WR483	TU162A	7180677
	0+25	WR485	TU162B	7180677
	0+25	WR489	TU162B	7180677
	0+25	WR491	TU162B	7180677

PROFILE VIEW
 VERTICAL UNITS: 1" = 20'
 HORIZONTAL UNITS: 1" = 200'

LEGEND

	BORE/HDD CASING		QUARTER SECTION CORNER
	SECTION LINE		SECTION CORNER
	INTERIOR SECTION LINE		UTILITY POLE
	ALIGNMENT CENTERLINE		GUY WIRE SIGN
	ROAD EDGE		FLANGE
	FENCE		RISER
	GAS PIPELINE		REDUCER
	OIL PIPELINE		TEE
	OVERHEAD UTILITY LINE		PIG VALVE
	BURIED POWER LINE		ELBOW
	FIBER OPTIC		GATE VALVE
	EMULSION FLOWLINE		MARKER
	SALT WATER DISPOSAL WATER PIPELINE		TEST LEAD
	TELEPHONE UTILITY LINE		

BILL OF MATERIALS

ITEM	DESCRIPTION	QTY
1	12.75" API 5L X52 (0.375WT) FBE	773LF
2	HDD 12.75" API 5L X52 (0.375WT) ARO	527LF
6	FLANGE	2.

OWNERSHIP TABLE

SECTION, TOWNSHIP, RANGE	OWNER	DISTANCE	RODDAGE
SEC. 17, T152N, R95W	TARGA ASSETS LLC	533.1	32.31
SEC. 8, T152N, R95W	KENNETH A MOGEN	766.9	46.48

DESIGN DATA

MOP	1480
DESIGN FACTOR	0.72
MAWP	740
TEST LIQUID	WATER
HYDRO TEST DATE	10/18/2016
INSTALLATION DATE	OCTOBER 2016
TRACKING NUMBER	4502269806
SHEET NUMBER	SHEET 1 OF 2

HORIZONTAL SCALE: 1" = 200'
 VERTICAL SCALE: 1" = 50'

AS-BUILT
AS-BUILT SURVEY

TESORO LOGISTICS

TARGA ANTELOPE TO KEENE LATERAL

FROM STA: 0+00 TO STA: 13+00

LINE: _____

SERIES: _____

ROUTE: _____

REV NO: 0

COUNTY, STATE	S-T-R	MCKENZIE, NORTH DAKOTA
OWNERSHIP		SEC. 17, T152N, R95W
ROW		TARGA ASSETS LLC
FOOTAGE		NE4
RODDAGE		N/A
ENVIRONMENTAL		190 FEET
		12 RODS

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DRAFTER	AJ	
DRAFT DATE	11/03/2016	
CHECK BY	ZJ	
APP. BY	SRL	
PROJECTION	ND ST PLANE - 3301 NORTH - SURVEY FT GRID	
DATUM	NAVD88-NAD83 (2011) (2010)	
SURVEYED	SURVEY GRADE GPS	
CSF	1.0001784438	
TLI NO.	16-3953.002	
REV	DESCRIPTION	DATE
0		

STATIONING

1+90 ENO STA.

0+36 P.I. < 91°43'40" LT.

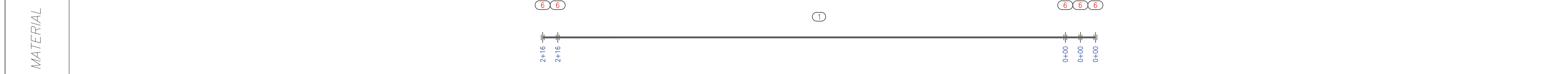
0+11 P.I. < 85°57'29" LT.

0+00 BEGIN STA.

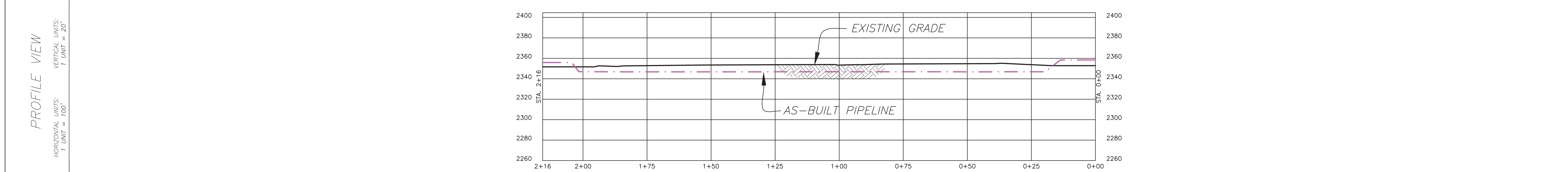


REFERENCE DRAWING TITLE	DRAWING NO.

PI TABLE		
NUMBER	STATION	DEFLECTION
BEGIN LINE	0+00	--
1	0+11	-85°57'29"
2	0+36	-91°43'39"
END LINE	1+90	--



WELD	STA.	WELD NO.	PIPE NO.	HEAT NO.
TL475	2+15	WRS10		
TL486	2+12	WRS09		
TL486	2+08	WRS07		
TL486	2+08	WRS07		
TL486	2+02	WRS05		
TL486	2+02	WRS05		
TL456A	1+96	WRS24		
TL476	1+95	WRS24		
TL455	1+65	WRS41		
TL459	1+36	WRS34		
TL458	0+94	WRS35		
TL457	0+53	WRS36		
TL477	0+51	WRS30		
TL456	0+25	WRS02		
TL457	0+23	WRS09		
TL463	0+10	WRS00		
TL452B	0+00	WRS01		



AS-BUILT
AS-BUILT SURVEY

LEGEND

	BORE/HDD CASING		QUARTER SECTION CORNER
	SECTION LINE		UTILITY POLE
	INTERIOR SECTION LINE		GUY WIRE
	ALIGNMENT CENTERLINE		SIGN
	ROAD EDGE		FLANGE
	FENCE		REDUCER
	GAS PIPELINE		TEE
	OIL PIPELINE		ELBOW
	OVERHEAD UTILITY LINE		RISER
	BURIED POWER LINE		CHECK VALVE
	FIBER OPTIC		PIG VALVE
	EMULSION FLOWLINE		GATE VALVE
	SALT WATER DISPOSAL WATER PIPELINE		TEST LEAD
	TELEPHONE UTILITY LINE		MARKER

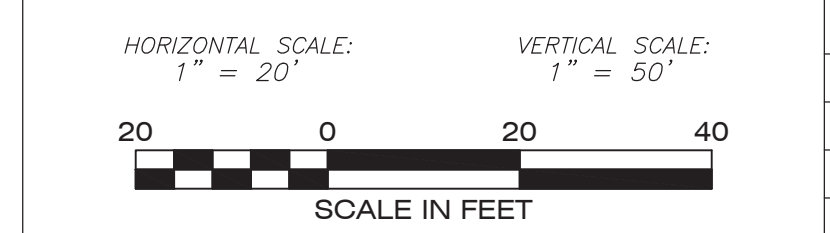
BILL OF MATERIALS

ITEM	DESCRIPTION	QTY
1	10.75" API 5L X52 (0.365WT) FBE	216LF
6	FLANGE	5.

OWNERSHIP TABLE

SECTION, TOWNSHIP, RANGE	OWNER	DISTANCE	RODDAGE
SEC. 17, T152N, R95W	TARGA ASSETS LLC	189.81	11.5

MOP	1480
DESIGN FACTOR	0.72
MAWP	740
TEST LIQUID	WATER
HYDRO TEST DATE	10/18/2016
INSTALLATION DATE	OCTOBER 2016
TRACKING NUMBER	4502269806
SHEET NUMBER	SHEET 1 OF 1



TESORO LOGISTICS

TARGA ANTELOPE TO KEENE
TARGA ANTELOPE PAD

FROM STA: 0+00 TO STA: 1+90

LINE: _____

SERIES: _____

ROUTE: _____

REV NO: 0

COUNTY, STATE
S-T-R

OWNERSHIP

ROW

FOOTAGE

RODDAGE

ENVIRONMENTAL

MCKENZIE, NORTH DAKOTA
SEC. 7, T152N, R95W
PAUL & MILO WISNESS
SE4
N/A
179 FEET
11 RODS

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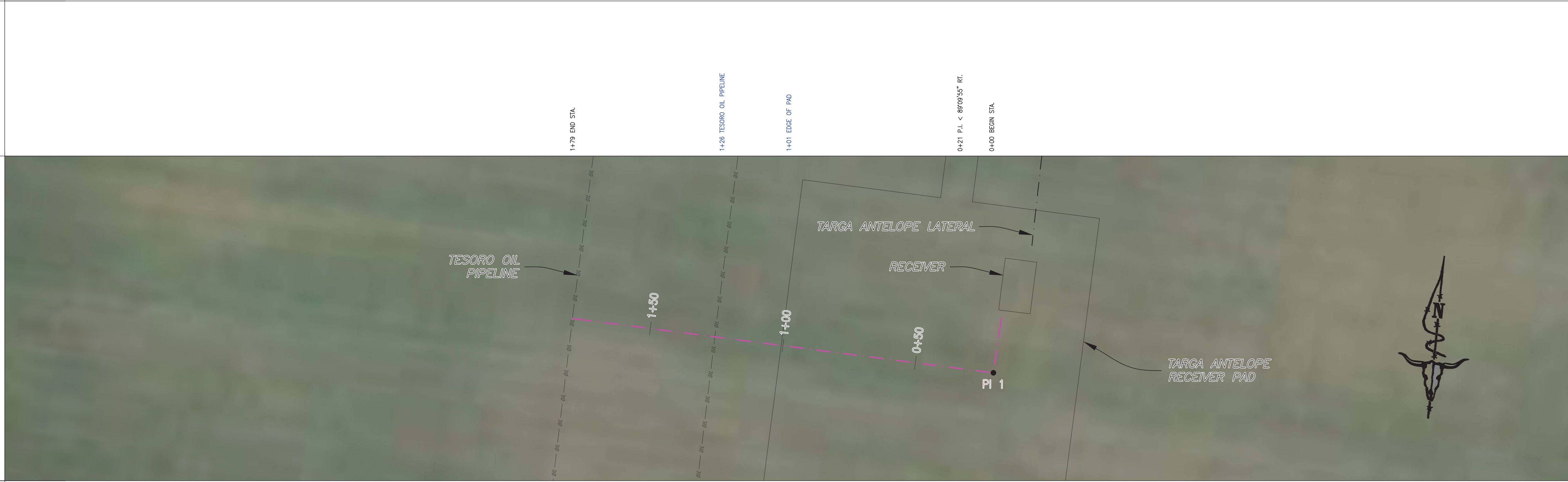
DRAFTER: AJ
DRAFT DATE: 11/03/2016
CHECK BY: ZJ
APP. BY: SRL

PROJECTION: ND ST PLANE - 3301 NORTH - SURVEY FT GRID
DATUM: NAVD88-NAD83 (2011) (2010)
SURVEYED: SURVEY GRADE GPS
CSF: 1.0001784438
TLI NO.: 16-3953.002

REV	DESCRIPTION	DATE
0		

STATIONING

PIPELINE ALIGNMENT PLAN VIEW



REFERENCE DRAWING TITLE: _____
DRAWING NO.: _____

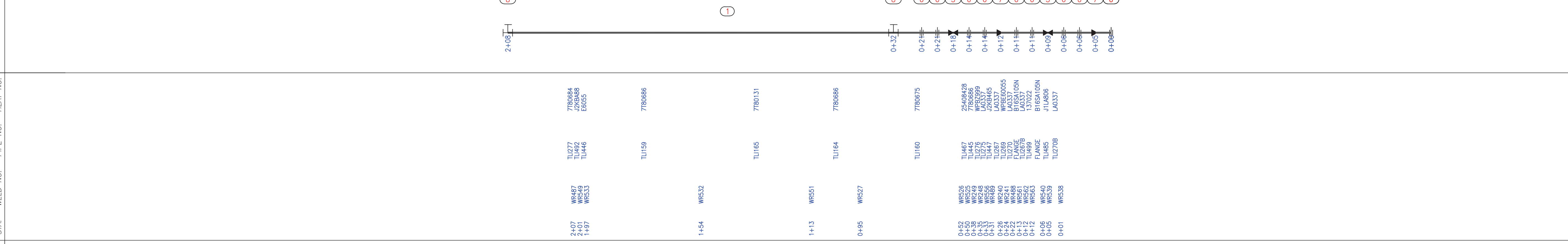
PI TABLE

NUMBER	STATION	DEFLECTION
BEGIN LINE	0+00	--
1	0+21	89°09'55"
END LINE	1+79	--

MATERIAL

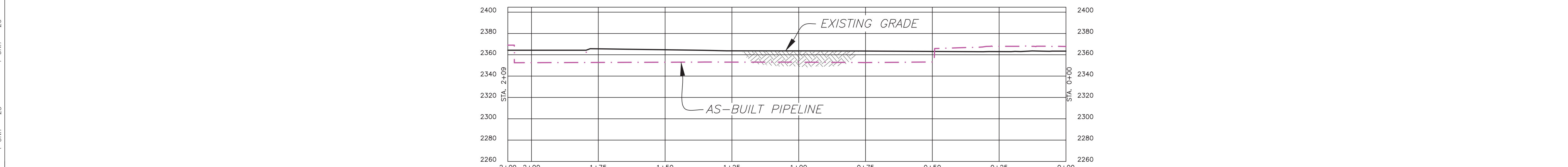
WELD

STA. WELD NO. PIPE NO. HEAT NO.



PROFILE VIEW

HORIZONTAL UNITS: 1" UNIT = 25'
VERTICAL UNITS: 1" UNIT = 20'



AS-BUILT
AS-BUILT SURVEY

LEGEND

	BORE/HDD CASING		QUARTER SECTION CORNER
	CULVERT		SECTION CORNER
	SECTION LINE		UTILITY POLE
	INTERIOR SECTION LINE		GUY WIRE
	ALIGNMENT CENTERLINE		SIGN
	ROAD EDGE		FLANGE
	FENCE		REDUCER
	GAS PIPELINE		TEE
	OIL PIPELINE		ELBOW
	OVERHEAD UTILITY LINE		MARKER
	BURIED POWER LINE		RISER
	FIBER OPTIC		CHECK VALVE
	EMULSION FLOWLINE		PIG VALVE
	SALT WATER DISPOSAL WATER PIPELINE		GATE VALVE
	TELEPHONE UTILITY LINE		TEST LEAD

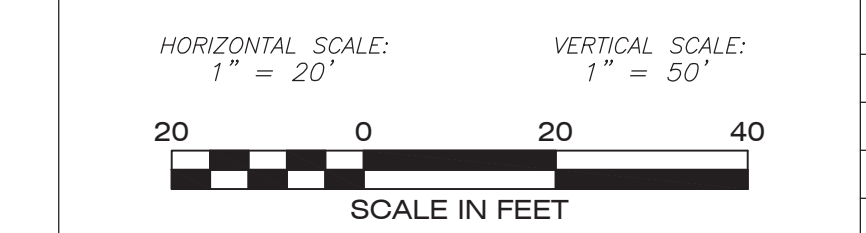
BILL OF MATERIALS

ITEM	DESCRIPTION	QTY
1	12.75" API 5L X52 (0.375WT) FBE	209LF
3	GATE VALVE	2.
6	FLANGE	10.
7	REDUCER	2.
8	TEE	2.

OWNERSHIP TABLE

SECTION, TOWNSHIP, RANGE	OWNER	DISTANCE	RODDAGE
SEC. 7, T152N, R95W	PAUL & MILO WISNESS	179.38	10.87

MOP	1480
DESIGN FACTOR	0.72
MAWP	740
TEST LIQUID	WATER
HYDRO TEST DATE	10/18/2016
INSTALLATION DATE	OCTOBER 2016
TRACKING NUMBER	4502269806
SHEET NUMBER	SHEET 1 OF 1



TESORO LOGISTICS

**TARGA ANTELOPE TO KEENE
TARGA ANTELOPE RECEIVER PAD**

FROM STA: 0+00 TO STA: 1+79

LINE: _____
SERIES: _____
ROUTE: _____

REV NO: 0