

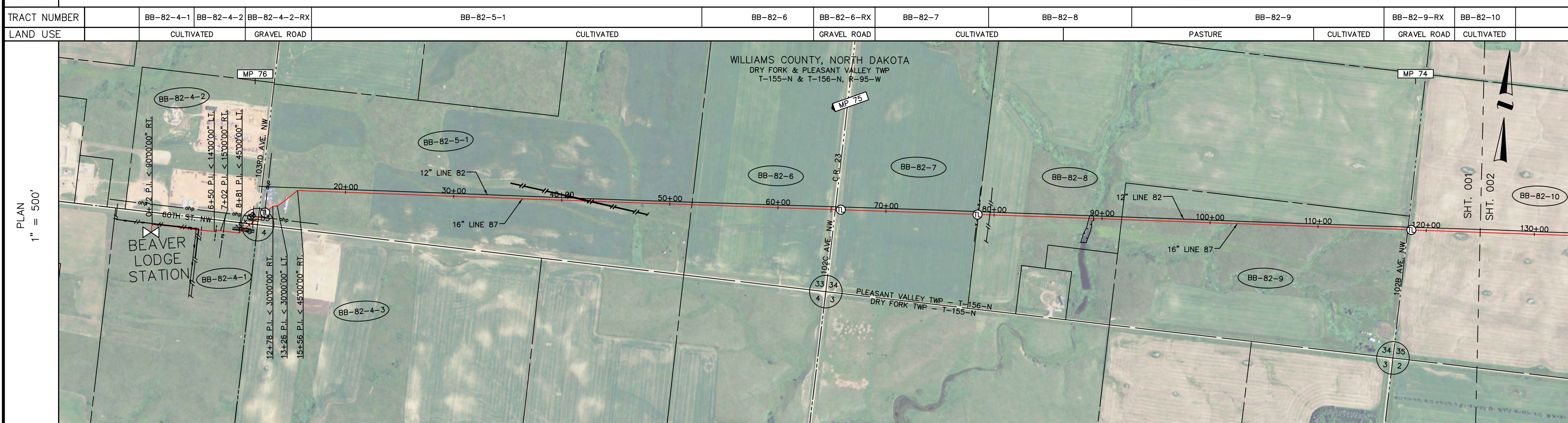
HORIZONTAL DATUM: NAD83 NORTH DAKOTA STATE PLANE,
NORTH ZONE, US FOOT

VERTICAL DATUM: NAVD 88

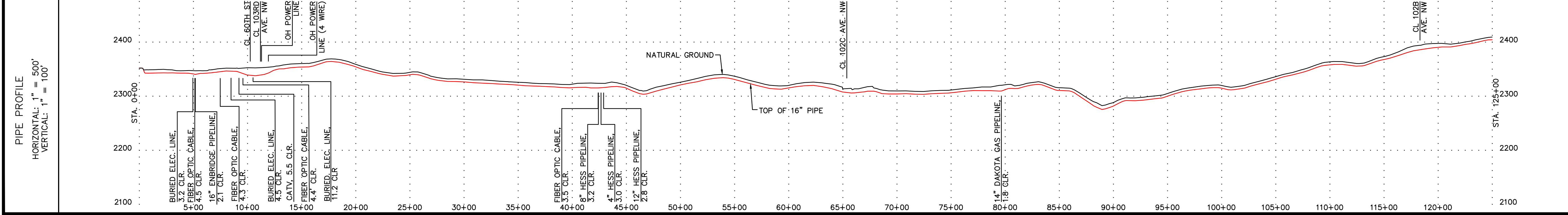
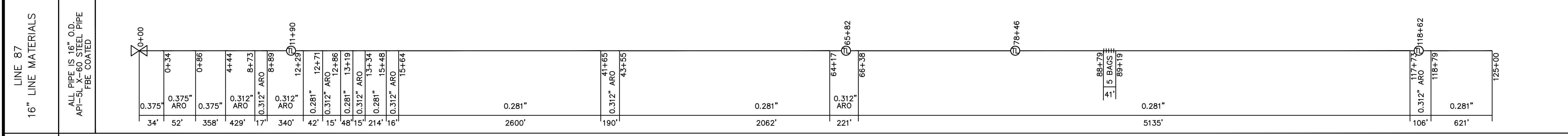
AS-BUILT DATE: 3-28-13

16" LINE 87		
DISTANCE: 55.4 MILES		
NO SCALE	AS-BUILT REVISION A	3-28-13

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE
LINE XX CROSSING INFORMATION	
TRACT NUMBER	BB-82-4-1 BB-82-4-2 BB-82-4-2-RX BB-82-5-1 BB-82-6 BB-82-6-RX BB-82-7 BB-82-8 BB-82-9 BB-82-9-RX BB-82-10
LAND USE	CULTIVATED GRAVEL ROAD CULTIVATED GRAVEL ROAD CULTIVATED PASTURE CULTIVATED GRAVEL ROAD CULTIVATED



ENVIRONMENTAL	34156095-61
LINE 87 CROSSING INFORMATION	<p>0+00 MAINLINE VALVE 0+72 P.I. < 9000'00" RT. 4+82 BURIED ELEC. LINE, 3.2 CLR. 5+02 FIBER OPTIC CABLE, 2.5 CLR. 5+31 16" STEEL PIPELINE, 4.8 CLR. 6+50 P.I. < 14700'00" LT. 6+65 6" STEEL CULVERTS, 2.6 CLR. 7+02 P.I. < 45300'00" RT. 7+37 FIBER OPTIC CABLE, 4.3 CLR. 8+81 P.I. < 45300'00" LT. 9+11 ROAD RIGHT-OF-WAY 9+14 BURIED ELEC. LINE, 4.5 CLR. 9+29 CATV, 5.5 CLR. 9+48 16" STEEL PIPELINE, 4.4 CLR. 9+55 DITCH 10+15 CL. 60TH ST 10+41 BURIED ELEC. LINE, 11.2 CLR. 10+64 DITCH 10+86 32" TRENCH CULVERT, 12.1 CLR. 11+10 CL. 103RD AVE. NW 11+19 OH POWER LINE 11+55 ROAD RIGHT-OF-WAY 11+82 PIPELINE MARKER 11+83 OH POWER LINE (4 WIRE) 12+79 P.I. < 45300'00" RT. 13+26 P.I. < 30000'00" LT. 15+56 P.I. < 45300'00" RT. 18+70 TRENCH BREAKER 22+54 TRENCH BREAKER 27+02 TRENCH BREAKER 41+78 PIPELINE MARKER 42+31 FIBER OPTIC CABLE, 3.5 CLR. 42+34 8" HESS PIPELINE, 3.2 CLR. 42+58 4" HESS PIPELINE, 3.0 CLR. 42+82 12" HESS PIPELINE, 2.8 CLR. 43+53 PIPELINE MARKER 45+00 TRENCH BREAKER 47+56 TRENCH BREAKER 50+08 TRENCH BREAKER 52+05 PROPERTY LINE 52+06 PIPELINE MARKER 52+57 TRENCH BREAKER 54+56 TRENCH BREAKER 57+07 TRENCH BREAKER 64+56 ROAD RIGHT-OF-WAY 64+92 DITCH 64+95 PIPELINE MARKER 65+32 CL. 102C AVE. NW/C.R. 23 65+81 DITCH LEAD 65+82 PIPELINE MARKER 66+07 ROAD RIGHT-OF-WAY 78+46 PIPELINE MARKER 78+46 TEST LEAD 78+46 FENCE 79+55 PROPERTY LINE 79+60 CL. DAKOTA GAS PIPELINE, 1.8 CLR. 83+01 PIPELINE MARKER 83+91 TRENCH BREAKER 86+67 TRENCH BREAKER 88+32 TRENCH BREAKER 88+79 WETLAND BOUNDARY 89+23 WETLAND BOUNDARY 89+68 TRENCH BREAKER 89+28 PIPELINE MARKER 91+81 PROPERTY LINE 91+83 PIPELINE MARKER 95+13 TRENCH BREAKER 97+62 TRENCH BREAKER 102+54 TRENCH BREAKER 104+61 TRENCH BREAKER 106+66 TRENCH BREAKER 107+71 PIPELINE MARKER 108+63 TRENCH BREAKER 113+68 TRENCH BREAKER 115+65 TRENCH BREAKER 117+53 TRENCH BREAKER 117+97 ROAD RIGHT-OF-WAY 118+37 SECTION LINE 118+34 CL. 102B AVE. NW 118+62 TEST LEAD 118+63 PIPELINE MARKER 118+84 ROAD RIGHT-OF-WAY 123+65 TRENCH BREAKER</p>



<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER W WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) XX.XX 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE TEE STOPPLE TEE
--	---

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	LT - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

A	AS-BUILT	3-28-13
NO.	REVISION	DATE APPR.
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		TRR
		DATE
		APPROVED

ENBRIDGE

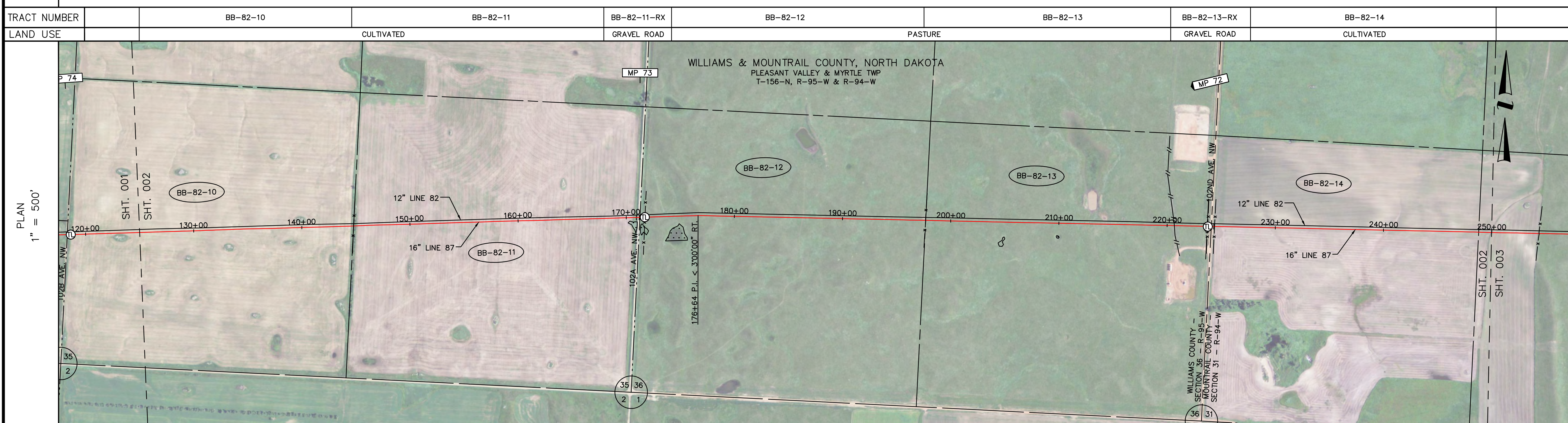
BEAVER LODGE TO BERTHOLD

LINE 87
MP 76.2 to MP 73.8
LINE 87 STA. 0+00 to STA. 125+00
WILLIAMS COUNTY, NORTH DAKOTA

DRAWING NUMBER: D-87-5.92-10501-A-15
ROUTE SHEET: 001

LINE XX XX" LINE MATERIALS	LINE XX CROSSING INFORMATION	TRACT NUMBER	BB-82-10	BB-82-11	BB-82-11-RX	BB-82-12	BB-82-13	BB-82-13-RX	BB-82-14
ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE		LAND USE	CULTIVATED	CULTIVATED	GRAVEL ROAD	PASTURE	PASTURE	GRAVEL ROAD	CULTIVATED

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

NOTES

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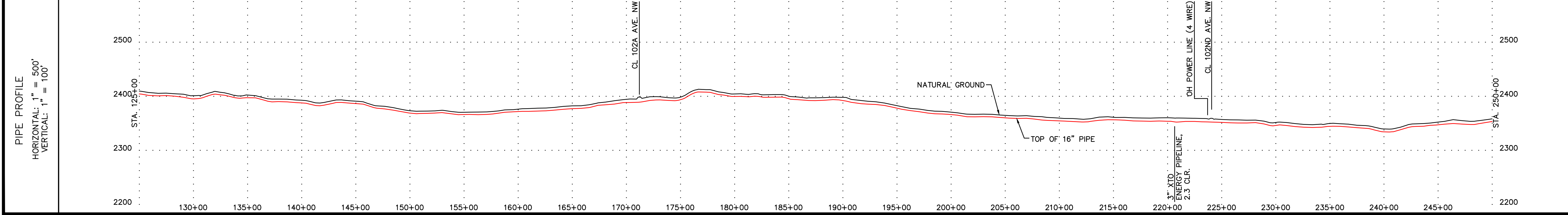
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

LINE 87 CROSSING INFORMATION	ENVIRONMENTAL
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ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	LT - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	

LINE 87 16" LINE MATERIALS	ENVIRONMENTAL
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FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



SCALE	DATE	DRAWN	APPROVED	APPROVED
1"=500'	3-1-13	RVB	TRR	

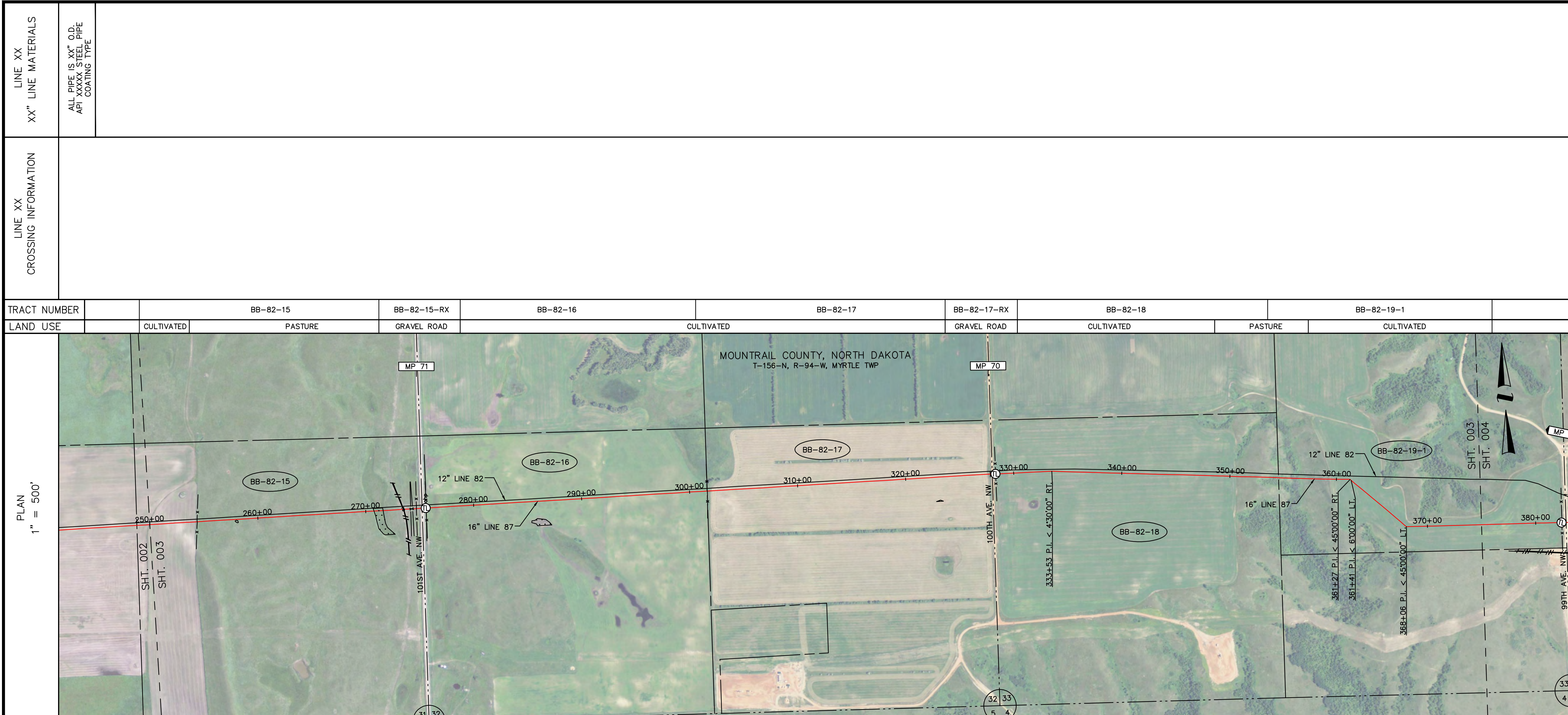
SCALE IN FEET

ENBRIDGE

BEAVER LODGE TO BERTHOLD

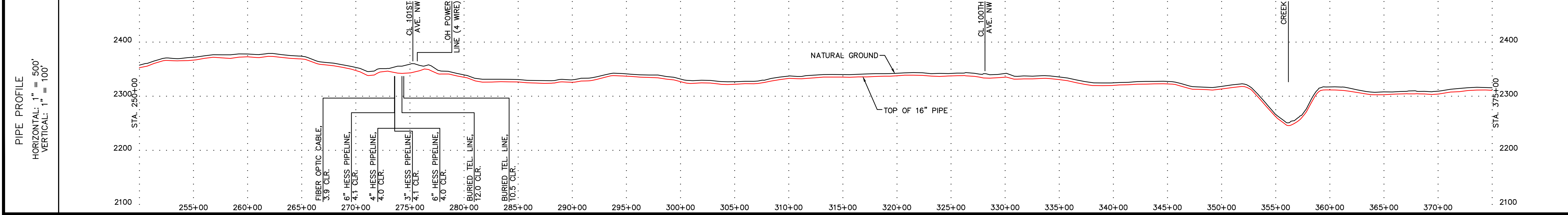
LINE 87
MP 73.8 to MP 71.5
LINE 87 STA. 125+00 to STA. 250+00
WILLIAMS & MOUNTRAIL COUNTIES, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10502-A-15	002



TRACT NUMBER	BB-82-15	BB-82-15-RX	BB-82-16	BB-82-17	BB-82-17-RX	BB-82-18	BB-82-19-1
LAND USE	CULTIVATED	PASTURE	GRAVEL ROAD	CULTIVATED	GRAVEL ROAD	CULTIVATED	PASTURE

LINE 87 CROSSING INFORMATION	LINE 87 MATERIALS
251+59 TRENCH BREAKER 254+37 PIPELINE MARKER 254+39 FENCE 266+20 TRENCH BREAKER 270+10 TRENCH BREAKER 270+77 WETLAND BOUNDARY 271+16 WETLAND BOUNDARY 273+48 FIBER OPTIC CABLE, 3.9 CLR. 273+48 6" HESS PIPELINE, 4.1 CLR. 273+51 3" HESS PIPELINE, 4.0 CLR. 273+52 6" HESS PIPELINE, 4.0 CLR. 274+17 BURIED TEL. LINE, 12.0 CLR. 274+48 ROAD RIGHT-OF-WAY 274+70 FENCE 274+72 PIPELINE MARKER 275+23 SECTION LINE, NW 275+23 PIPELINE MARKER 275+68 TEST LEAD 275+80 FENCE 275+88 ROAD RIGHT-OF-WAY (4 WIRE) 275+98 ROAD 277+00 TRENCH BREAKER 278+97 TRENCH BREAKER 281+06 TRENCH BREAKER 299+75 TRENCH BREAKER 301+62 PIPELINE MARKER 301+63 PROPERTY LINE 301+64 FENCE 308+73 TRENCH BREAKER 327+68 ROAD RIGHT-OF-WAY 327+78 PIPELINE MARKER 327+83 DITCH 328+07 SECTION LINE 328+07 C/O 100TH AVE. NW 328+26 DITCH 328+31 TEST LEAD 328+33 FENCE 328+35 ROAD RIGHT-OF-WAY 333+53 P.I. < 4'30"00" RT. 346+33 TRENCH BREAKER 350+62 PIPELINE MARKER 352+75 TRENCH BREAKER 354+29 TRENCH BREAKER 354+24 PROPERTY LINE 355+81 TRENCH BREAKER 356+18 CREEK 358+47 TRENCH BREAKER 359+28 PIPELINE MARKER 361+27 P.I. < 4'50"00" RT. 361+41 P.I. < 6'00"00" LT. 368+06 P.I. < 4'50"00" LT.	ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FB COATED 250+00 0.281" 2297' 270+88 271+06 81' 271+56 271+88 272+97 0.312" ARO 319' 276+15 275+58 0.281" 5139' 327+55 328+51 96' 0.312" ARO 328+51 0.281" 3266' 361+18 0.312" ARO 361+34 16' 0.281" 664' 16' 0.312" ARO 368+14 0.281" 686' 375+00



LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE

NOTES	
	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	

NO.	REVISION	DATE	APPR.
110363-01R	BASE		

ENBRIDGE

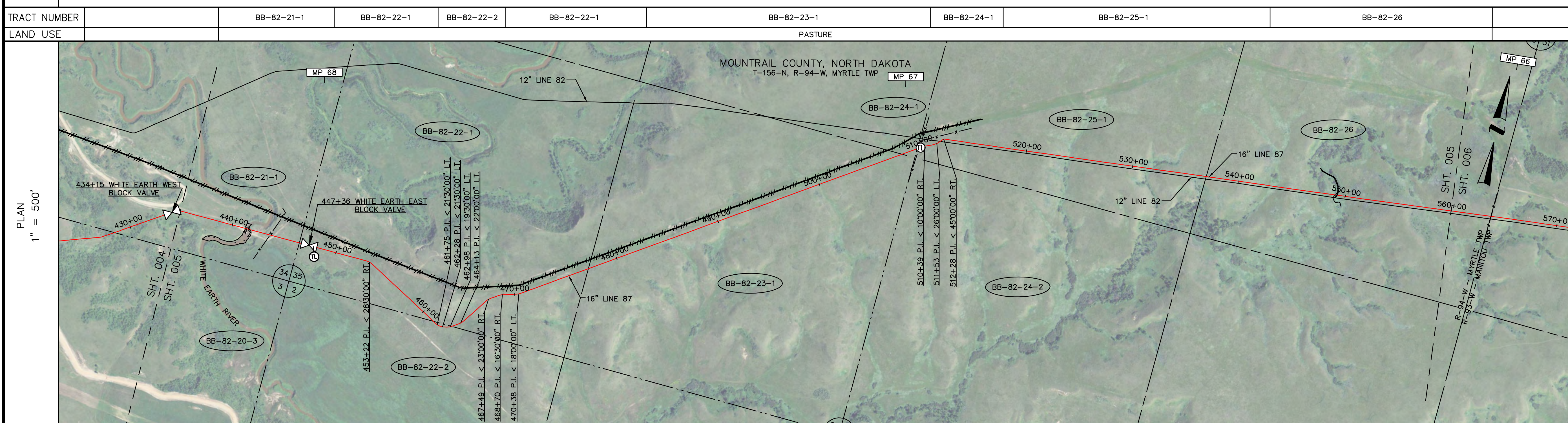
BEAVER LODGE TO BERTHOLD

LINE 87
 MP 71.5 to MP 69.2
 LINE 87 STA. 250+00 to STA. 375+00
 MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER: **D-87-5.92-10503-A-15** ROUTE SHEET: **003**

LINE XX XX" LINE MATERIALS	LINE XX CROSSING INFORMATION	TRACT NUMBER	BB-82-21-1	BB-82-22-1	BB-82-22-2	BB-82-22-1	BB-82-23-1	BB-82-24-1	BB-82-25-1	BB-82-26
ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE		LAND USE	PASTURE							

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

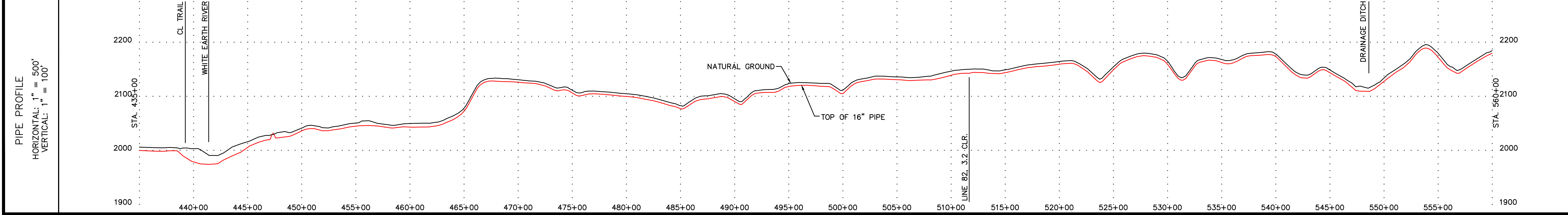
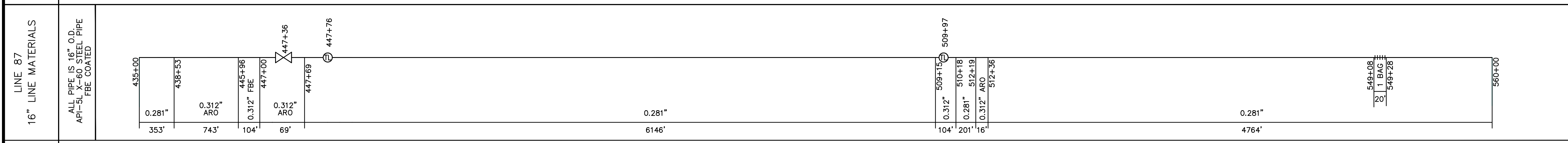
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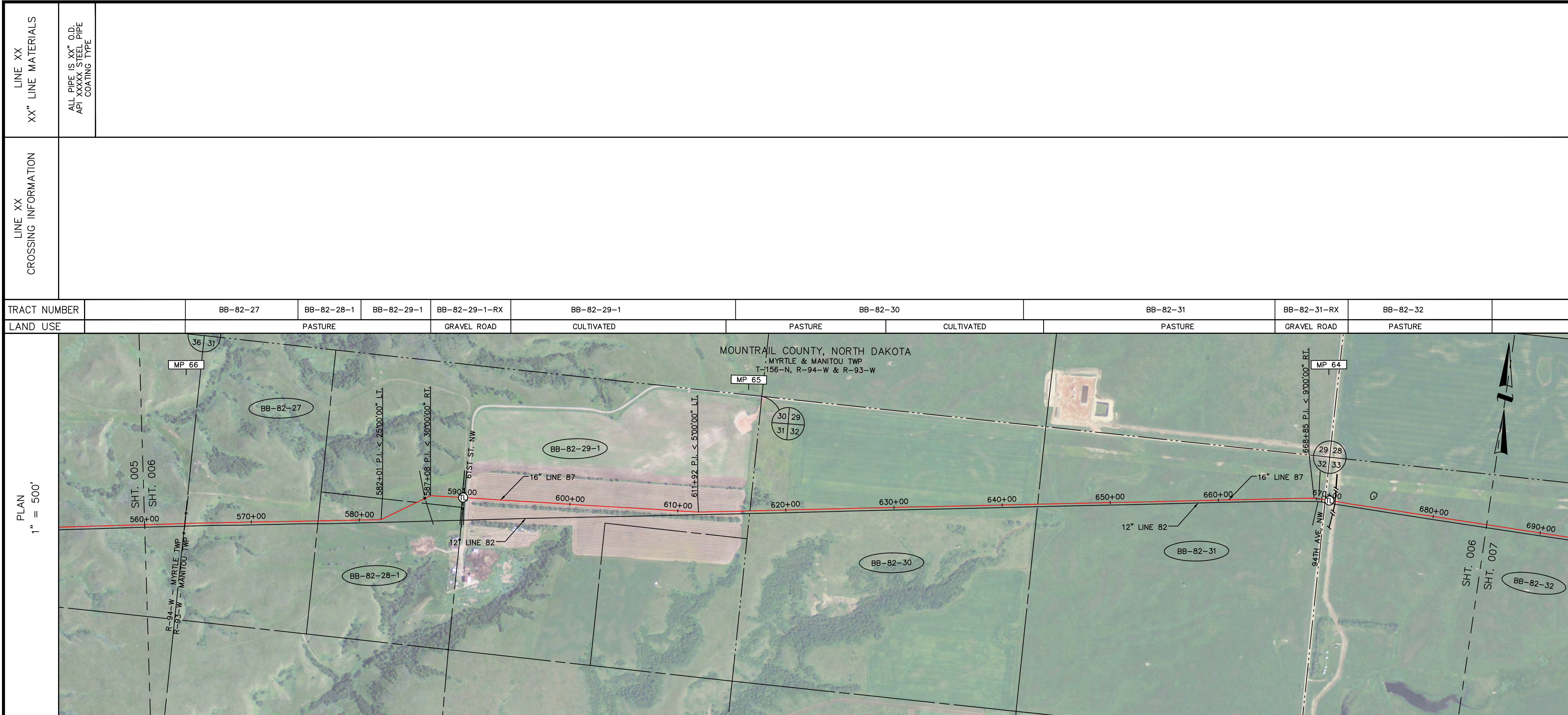
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ENVIRONMENTAL	34156094-s1	36156094-s1
LINE 87 CROSSING INFORMATION	<p>440+99 PIPELINE MARKER 441+21 WETLAND BOUNDARY 441+35 WHITE EARTH RIVER 441+64 WETLAND BOUNDARY 443+61 FENCE 443+61 PIPELINE MARKER 446+43 SECTION LINE 447+36 WHITE EARTH EAST BLOCK VALVE 447+76 TEST LEAD 447+87 TRENCH BREAKER 449+82 TRENCH BREAKER 453+22 P.I. < 28'30"00" RT. 461+75 P.I. < 21'30"00" LT. 462+28 P.I. < 21'30"00" LT. 464+13 P.I. < 22'00"00" LT. 467+49 P.I. < 23'00"00" RT. 468+70 P.I. < 16'30"00" RT. 470+38 P.I. < 18'00"00" LT. 477+22 P.I. < 16'00"00" RT. 481+26 TRENCH BREAKER 483+80 TRENCH BREAKER 486+07 TRENCH BREAKER 488+13 TRENCH BREAKER 489+40 TRENCH BREAKER 491+49 TRENCH BREAKER 494+78 TRENCH BREAKER 498+49 TRENCH BREAKER 500+80 TRENCH BREAKER 502+22 TRENCH BREAKER 508+15 PROPERTY LINE 509+64 SECTION LINE 509+86 PIPELINE MARKER 509+87 TEST LEAD 510+18 P.I. < 26'00"00" LT. 512+28 P.I. < 45'00"00" RT. 514+30 P.I. < 10'00"00" RT. 512+28 P.I. < 45'00"00" RT. 519+01 TRENCH BREAKER 523+41 TRENCH BREAKER 524+90 TRENCH BREAKER 527+08 TRENCH BREAKER 529+17 TRENCH BREAKER 531+17 TRENCH BREAKER 532+53 TRENCH BREAKER 536+84 PIPELINE MARKER 538+95 PROPERTY LINE 540+69 TRENCH BREAKER 542+53 TRENCH BREAKER 544+08 TRENCH BREAKER 545+59 TRENCH BREAKER 547+20 TRENCH BREAKER 547+62 TRENCH BREAKER 549+08 DRAINAGE DITCH 549+25 WETLAND BOUNDARY 550+34 TRENCH BREAKER 551+17 TRENCH BREAKER 552+67 TRENCH BREAKER 554+16 TRENCH BREAKER 556+45 TRENCH BREAKER 558+74 TRENCH BREAKER</p>	

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	
A	AS-BUILT	3-28-13
REVISION		
NO.	DATE	APPR.
1	3-1-13	TRR
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
APPROVED	DATE	APPR.
		TRR
SCALE IN FEET 0 250 500 1000		
BEAVER LODGE TO BERTHOLD		
LINE 87		
MP 68.2 to MP 66.1		
LINE 87 STA. 435+00 to STA. 560+00		
MOUNTRAIL COUNTY, NORTH DAKOTA		
DRAWING NUMBER		ROUTE SHEET
D-87-5.92-10505-A-15		005



LEGEND

	INTERSTATE HIGHWAY		M.P. MARKER
	US HIGHWAY		AERIAL M.P. MARKER
	STATE HIGHWAY		ROCK SHIELD
	CO. STATE AID HIGHWAYS		SET ON WEIGHTS
	COUNTY ROAD		CONCRETE COATING
	REPAIR SLEEVE		CASING
	RECTIFIER		MOTOR OPERATED VALVE
	WELD PLUS		REMOTE OPERATED VALVE
	TEST LEAD		HAND OPERATED VALVE
	TRACT NUMBER		TEE
	PCR (AC MITIGATION)		STOPPLE TEE

TRACT NUMBER	BB-82-27	BB-82-28-1	BB-82-29-1	BB-82-29-1-RX	BB-82-29-1	BB-82-30	BB-82-31	BB-82-31-RX	BB-82-32
LAND USE	PASTURE			GRAVEL ROAD	CULTIVATED	PASTURE	CULTIVATED	PASTURE	PASTURE

NOTES

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ABBREVIATIONS

C/L - CENTERLINE
 MLV - MAINLINE VALVE
 MKR - MARKER
 R/W - RIGHT OF WAY
 P.I. - POINT OF INTERSECTION
 LT - LEFT TURN
 RT - RIGHT TURN
 MP - MILEPOST

ENVIRONMENTAL

CROSSING INFORMATION

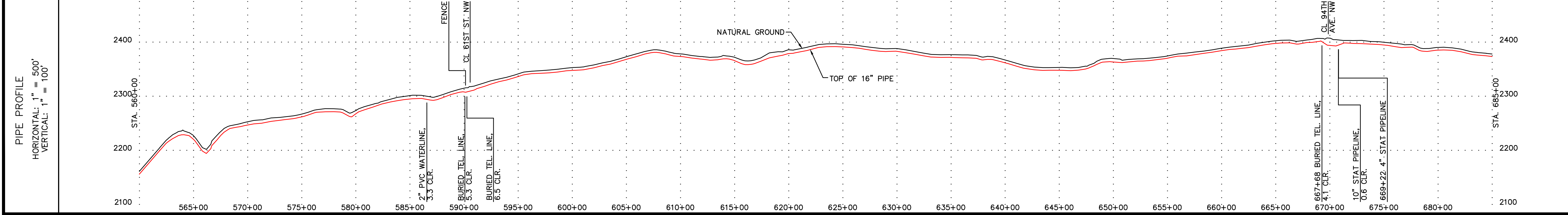
560+74 TRENCH BREAKER	601+87 TRENCH BREAKER	631+45 TRENCH BREAKER	668+85 P.I. < 900'00" RT.
562+81 TRENCH BREAKER	603+96 TRENCH BREAKER	639+94 TRENCH BREAKER	669+48 BURIED TEL. LINE 4.1 CLR.
563+78 SECTION LINE	606+16 TRENCH BREAKER	642+50 PIPELINE MARKER	669+50 BURIED TEL. LINE 4.1 CLR.
563+78 SECTION LINE	607+67 TRENCH BREAKER	669+56 DITCH	669+56 ROAD RIGHT-OF-WAY
565+33 TRENCH BREAKER	611+92 P.I. < 500'00" LT.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
565+33 TRENCH BREAKER	616+36 PIPELINE MARKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
566+90 TRENCH BREAKER	616+87 SECTION LINE	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
568+39 TRENCH BREAKER	620+29 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
571+44 TRENCH BREAKER	622+45 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
573+95 TRENCH BREAKER	648+15 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
576+18 PROPERTY LINE	649+45 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
580+62 TRENCH BREAKER	651+95 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
582+01 P.I. < 2500'00" LT.	654+46 TRENCH BREAKER	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
583+30 TRENCH BREAKER	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
585+66 PROPERTY LINE	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
586+51 2" PVC WATERLINE, 3.3 CLR.	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
587+08 P.I. < 3000'00" RT.	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
587+08 P.I. < 3000'00" RT.	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
588+57 TRENCH BREAKER	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+03 BURIED TEL. LINE, 5.3 CLR.	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+09 FENCE	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+10 TEST LEAD	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+13 ROAD RIGHT-OF-WAY	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+21 BURIED TEL. LINE, 6.5 CLR.	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+33 DITCH	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+33 DITCH	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+79 ROAD RIGHT-OF-WAY	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
590+81 PIPELINE MARKER	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
592+18 TRENCH BREAKER	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY
595+95 TRENCH BREAKER	667+83 BURIED TEL. LINE 4.1 CLR.	669+56 ROAD RIGHT-OF-WAY	669+56 ROAD RIGHT-OF-WAY

LINE 87

16" LINE MATERIALS

ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED

560+00	563+30	564+32	587+01	587+16	589+85	590+10	591+06	616+22	617+39	619+41	619+70	620+00	620+49	667+18	670+28	685+00
0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.281"
330'	102'		15'	269'	121'		2516'	117'	202'	108'				211'	1372'	



NO. 110363-01R BASE

REFERENCE DRAWINGS

BASE DRAWING

NO.	REVISION	DATE	APPR.

SCALE	DATE	DRAWN	APPROVED	APPROVED
1"=500'	3-1-13	RVB	TRR	

SCALE IN FEET

ENBRIDGE

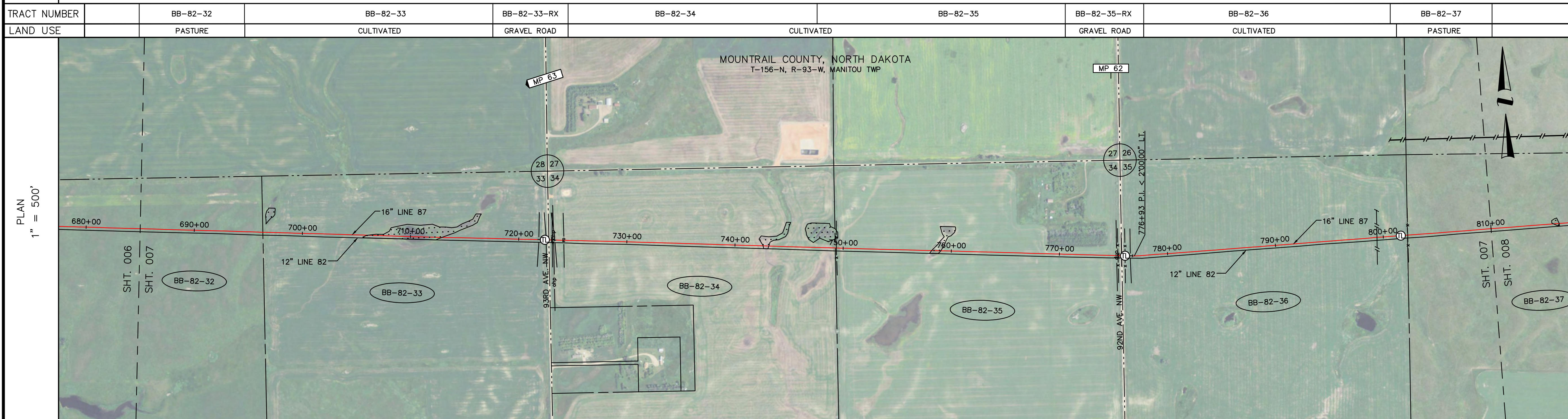
BEAVER LODGE TO BERTHOLD

LINE 87
 MP 66.1 to MP 63.7
 LINE 87 STA. 560+00 to STA. 685+00
 MOUNTAIN COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10506-A-15	006

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-32	BB-82-33	BB-82-33-RX	BB-82-34	BB-82-35	BB-82-35-RX	BB-82-36	BB-82-37
LAND USE	PASTURE	CULTIVATED	GRAVEL ROAD	CULTIVATED	GRAVEL ROAD	CULTIVATED	PASTURE	

LEGEND	
XX INTERSTATE HIGHWAY	XXXX M.P. MARKER
X US HIGHWAY	XXXX AERIAL M.P. MARKER
XX STATE HIGHWAY	--- ROCK SHIELD
XX CO. STATE AID HIGHWAYS	SET ON WEIGHTS
XX COUNTY ROAD	/// CONCRETE COATING
□ REPAIR SLEEVE	--- CASING
R RECTIFIER	M MOTOR OPERATED VALVE
W WELD PLUS	R REMOTE OPERATED VALVE
TL TEST LEAD	X HAND OPERATED VALVE
X-XXX-X TRACT NUMBER	TEE
◆ PCR (AC MITIGATION) XX.XX	STOPPLE TEE



--- CIVIL TOWNSHIP LINE
--- FOREIGN PIPELINE
--- SECTION LINES
--- ROADS
--- PHONE LINE
--- BURIED POWER LINE
--- OVERHEAD POWER LINE
--- WATER LINE
--- GAS LINE
--- FIBER OPTIC CABLE LINE
--- SEWER
--- PROPERTY LINE
--- FENCE
--- RAILROADS
--- RIVERS, STREAMS, CREEKS, DITCHES
--- DRAIN TILE
--- CULVERTS

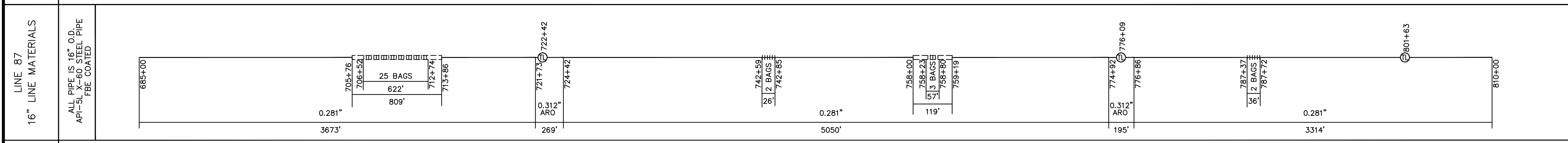
NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

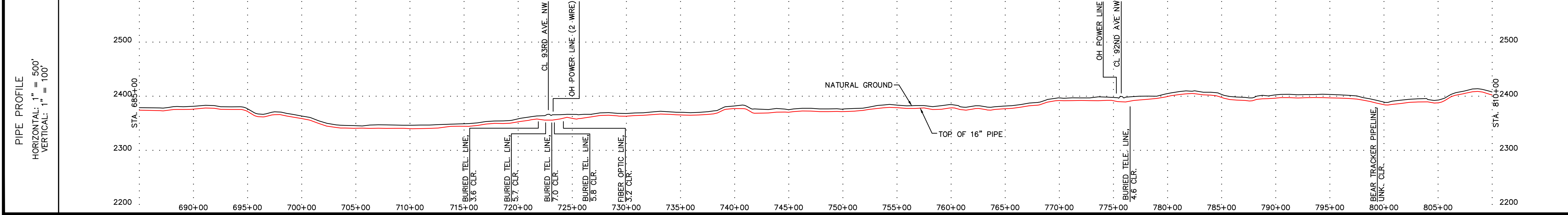
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ENVIRONMENTAL	33156093-w3	34156093-w1	34156093-w3
LINE 87 CROSSING INFORMATION	685+60 TRENCH BREAKER 696+28 PIPELINE MARKER 696+35 PROPERTY LINE 699+41 TRENCH BREAKER 701+97 TRENCH BREAKER 706+10 WETLAND BOUNDARY 712+90 WETLAND BOUNDARY 721+86 BURIED TEL. LINE, 3.6 CLR. 722+44 PIPELINE MARKER 722+46 ROAD RIGHT-OF-WAY 722+48 BURIED TEL. LINE, 5.7 CLR. 722+49 BUILT-UP SECTION LINE 722+78 CL. 93RD AVE. NW 722+79 SECTION LINE 723+10 BURIED TEL. LINE, 7.0 CLR. 723+12 ROAD RIGHT-OF-WAY 723+14 PIPELINE MARKER 723+34 BURIED TEL. LINE, 5.8 CLR. 724+17 FIBER OPTIC LINE, 3.2 CLR. 738+62 TRENCH BREAKER 741+14 TRENCH BREAKER 742+60 WETLAND BOUNDARY 743+13 WETLAND BOUNDARY 749+28 PROPERTY LINE 749+30 PIPELINE MARKER 749+38 FENCE 758+19 WETLAND BOUNDARY 759+02 WETLAND BOUNDARY 775+09 OH POWER LINE 775+36 PIPELINE MARKER 775+42 FENCE 775+43 ROAD RIGHT-OF-WAY 775+76 SECTION LINE 775+78 SECTION LINE 776+07 FENCE 776+09 ROAD RIGHT-OF-WAY 776+09 PIPELINE MARKER 776+55 BURIED TEL. LINE, 4.6 CLR. 776+93 P.I. < 2'00'00" L.I. 799+41 BEAR TRACKER PIPELINE, UNK. CLR. 801+63 TEST LEAD 802+25 PROPERTY LINE 802+27 FENCE 802+27 PIPELINE MARKER 805+43 TRENCH BREAKER 807+31 TRENCH BREAKER		

ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	RT - RIGHT TURN
LT - LEFT TURN	MP - MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



NO.	REVISION	DATE	APPR.
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR



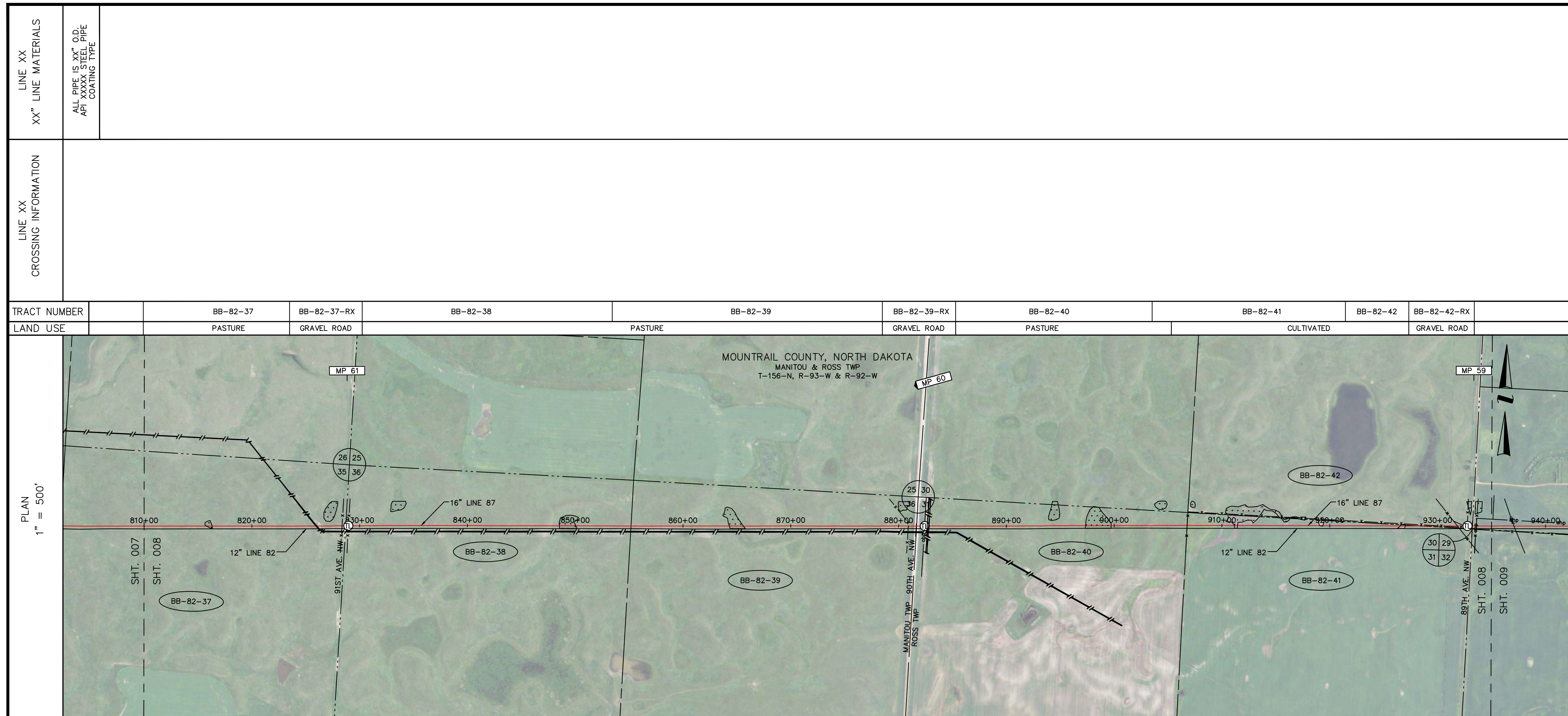
SCALE IN FEET

ENBRIDGE

BEAVER LODGE TO BERTHOLD

LINE 87
MP 63.7 to MP 61.4
LINE 87 STA. 685+00 to STA. 810+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10507-A-15	007



LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE

NOTES	
	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ENVIRONMENTAL	LINE 87 CROSSING INFORMATION	ABBREVIATIONS
35156093-w1	810+49 TRENCH BREAKER 816+76 WETLAND BOUNDARY 818+31 WETLAND BOUNDARY 825+83 8" HESS PIPELINE, 4.3 CLR. 825+89 4" HESS PIPELINE, 4.4 CLR. 825+99 4" HESS PIPELINE, 4.4 CLR. 826+04 10" HESS PIPELINE, 4.1 CLR. 826+05 PIPELINE MARKER 826+38 ROAD RIGHT-OF-WAY 828+38 ROAD RIGHT-OF-WAY 828+69 91ST AVE. NW 828+66 TEST LEAD 828+66 TEST LEAD 828+96 FENCE RIGHT-OF-WAY 828+96 FENCE RIGHT-OF-WAY 832+05 TRENCH BREAKER 836+57 TRENCH BREAKER	C/L - CENTERLINE MLV - MAINLINE VALVE MKR - MARKER R/W - RIGHT OF WAY P.I. - POINT OF INTERSECTION LT - LEFT TURN RT - RIGHT TURN MP - MILEPOST
36156093-w2	847+88 TRENCH BREAKER 848+84 WETLAND BOUNDARY 850+06 WETLAND BOUNDARY 850+65 TRENCH BREAKER 853+13 TRENCH BREAKER 854+80 PIPELINE MARKER 855+18 PROPERTY LINE 856+66 TRENCH BREAKER 859+38 TRENCH BREAKER	
36156093-w3	862+55 TRENCH BREAKER 864+30 WETLAND BOUNDARY 865+85 TRENCH BREAKER 880+90 FENCE 880+91 ROAD RIGHT-OF-WAY 881+63 CL. 90TH AVE. NW 881+67 SECTION LINE 882+41 TEST LEAD 882+41 TEST LEAD 882+41 PIPELINE MARKER 882+42 ROAD RIGHT-OF-WAY 882+66 8" STAT. LINE, 10.5 CLR. 882+77 8" STAT. LINE, 6.6 CLR. 882+84 12" STAT. LINE, 5.3 CLR.	
31156092-w2	892+59 TRENCH BREAKER	
30156092-w3	896+89 TRENCH BREAKER 897+36 WETLAND BOUNDARY 899+72 WETLAND BOUNDARY 900+55 TRENCH BREAKER 902+67 TRENCH BREAKER	
30156092-w4	906+77 PIPELINE MARKER 906+76 PROPERTY LINE 909+50 TRENCH BREAKER 911+15 WETLAND BOUNDARY 911+45 WETLAND BOUNDARY	
30156092-w5	919+09 WETLAND BOUNDARY 919+35 WETLAND BOUNDARY 919+76 TRENCH BREAKER 926+62 WETLAND BOUNDARY 926+33 SECTION LINE 928+33 SECTION LINE 930+08 FENCE 930+08 PIPELINE MARKER 931+82 WATER LINE, UNKNOWN CLR. 932+51 WATER LINE, 2.4 CLR. 933+98 TEST LEAD 933+98 TEST LEAD 932+76 PIPELINE MARKER 932+90 ROAD RIGHT-OF-WAY 933+23 SECTION LINE, NW 933+23 SECTION LINE, NE 933+56 OH POWER LINE 933+58 PIPELINE MARKER	

LINE 87 16" LINE MATERIALS	PIPE PROFILE
ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED	HORIZONTAL: 1" = 500' VERTICAL: 1" = 100'
810+00 to 828+96: 0.281" ARO, 1519' length	810+00 to 828+96: Profile showing pipe elevation and ground level.
828+96 to 849+32: 0.281" ARO, 5105' length	828+96 to 849+32: Profile showing pipe elevation and ground level.
849+32 to 864+65: 0.281" ARO, 1295' length	849+32 to 864+65: Profile showing pipe elevation and ground level.
864+65 to 882+41: 0.312" ARO, 295' length	864+65 to 882+41: Profile showing pipe elevation and ground level.
882+41 to 896+56: 0.312" ARO, 371' length	882+41 to 896+56: Profile showing pipe elevation and ground level.
896+56 to 911+45: 0.281" ARO, 3208' length	896+56 to 911+45: Profile showing pipe elevation and ground level.
911+45 to 935+00: 0.281" ARO, 186' length	911+45 to 935+00: Profile showing pipe elevation and ground level.

REFERENCE DRAWINGS		
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

REVISION				
NO.	DATE	BY	APPROVED	APPR.
1	3-1-13	RVB	TRR	

SCALE: 1"=500'

SCALE IN FEET: 0, 250, 500, 1000

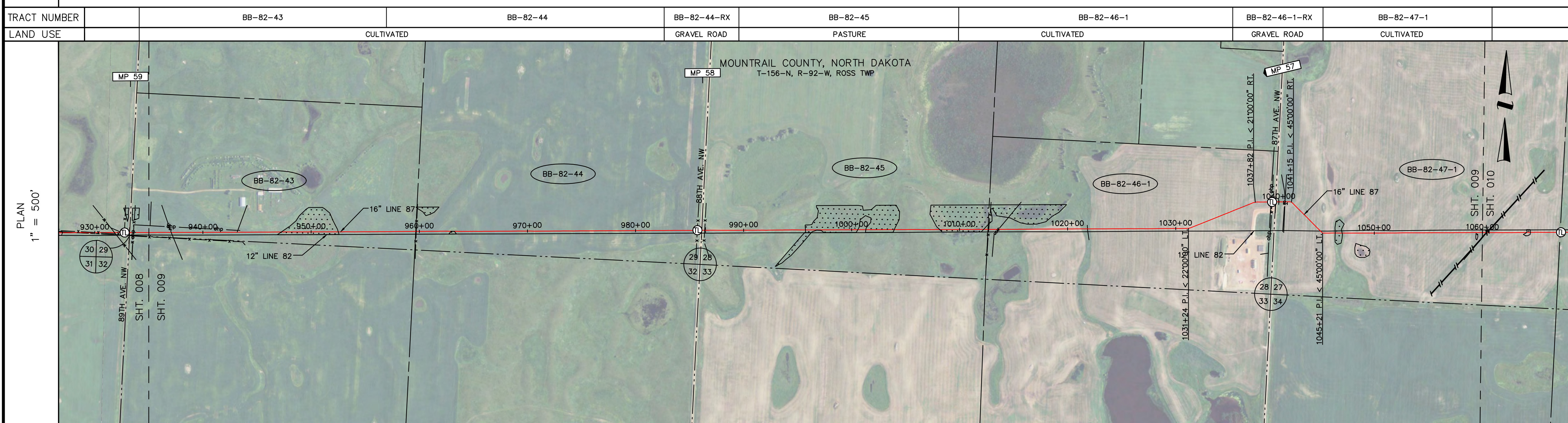
ENBRIDGE

BEAVER LODGE TO BERTHOLD

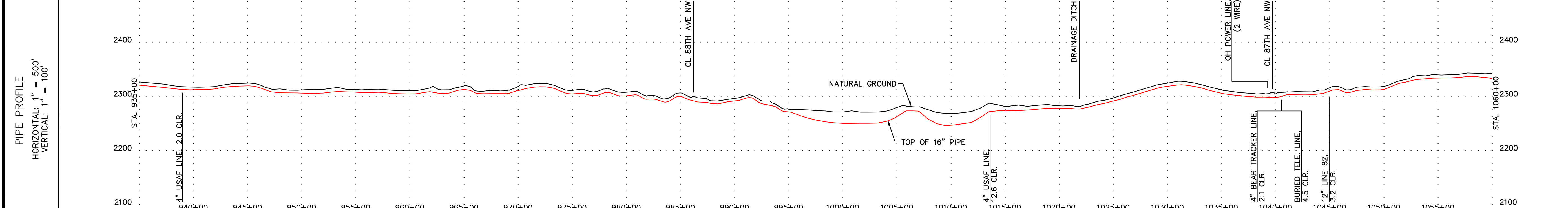
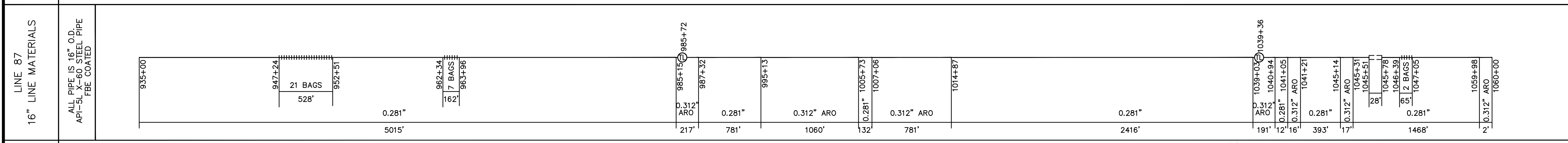
LINE 87
MP 61.4 to MP 58.9
LINE 87 STA. 810+00 to STA. 935+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10508-A-15	008

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE						
LINE XX CROSSING INFORMATION							
TRACT NUMBER	BB-82-43	BB-82-44	BB-82-44-RX	BB-82-45	BB-82-46-1	BB-82-46-1-RX	BB-82-47-1
LAND USE	CULTIVATED			GRAVEL ROAD	CULTIVATED		CULTIVATED



ENVIRONMENTAL	29156092-w1	28156092-w1	28156092-w2	27156092-w6
LINE 87 CROSSING INFORMATION	<p>9374+07 4" USAF LINE, 2.0 CLR. 9374+11 PIPELINE MARKER</p> <p>946+24 TRENCH BREAKER 947+25 WETLAND BOUNDARY</p> <p>952+51 WETLAND BOUNDARY</p> <p>959+67 PROPERTY LINE 959+72 FENCE 959+72 PIPELINE MARKER</p> <p>985+72 FENCE 985+72 TEST LEAD 985+72 PIPELINE MARKER 985+80 ROAD RIGHT-OF-WAY 985+80 SECTION LINE 986+13 CL 88TH AVE NW 986+38 PIPELINE MARKER 986+46 FENCE 986+46 ROAD RIGHT-OF-WAY</p> <p>992+19 TRENCH BREAKER 994+22 TRENCH BREAKER 995+73 WETLAND BOUNDARY</p> <p>1003+94 WETLAND BOUNDARY 1008+17 WETLAND BOUNDARY</p> <p>1012+23 WETLAND BOUNDARY 1012+70 FENCE 1012+71 PIPELINE MARKER 1013+60 4" USAF LINE, 12.6 CLR.</p> <p>1031+84 DRAINAGE DITCH 1022+18 TRENCH BREAKER</p> <p>1024+35 TRENCH BREAKER 1026+29 TRENCH BREAKER 1028+30 TRENCH BREAKER 1030+31 TRENCH BREAKER 1031+24 P.I.L. < 22'00"00" R.I. 1033+00 TRENCH BREAKER 1035+48 TRENCH BREAKER 1037+52 P.I.L. < 21'00"00" R.I.</p> <p>1039+25 OH POWER LINE, (2 WIRE) 1039+36 ROAD RIGHT-OF-WAY 1039+37 PIPELINE MARKER 1039+69 SECTION LINE 1039+71 CL 87TH AVE NW 1040+03 PIPELINE MARKER 1040+52 BEAR TRACKER FIBER OPTIC 1040+56 BURED LINE, 2' CLR. LINE, 4.5 CLR. 1041+15 P.I.L. < 45'00"00" R.I.</p> <p>1044+95 12" ENBRIDGE LINE 82, 1045+21 P.I.L. < 45'00"00" R.I. 1046+39 WETLAND BOUNDARY 1047+03 WETLAND BOUNDARY</p> <p>1050+29 TRENCH BREAKER 1052+24 TRENCH BREAKER 1054+83 TRENCH BREAKER 1056+81 TRENCH BREAKER</p>			



<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER □ WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) XX.XX 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE □ TEE ○ STOPPLE TEE
--	--

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	L.T. - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	

FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	
A	AS-BUILT	3-28-13
NO.	REVISION	
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		APPROVED
		TRR

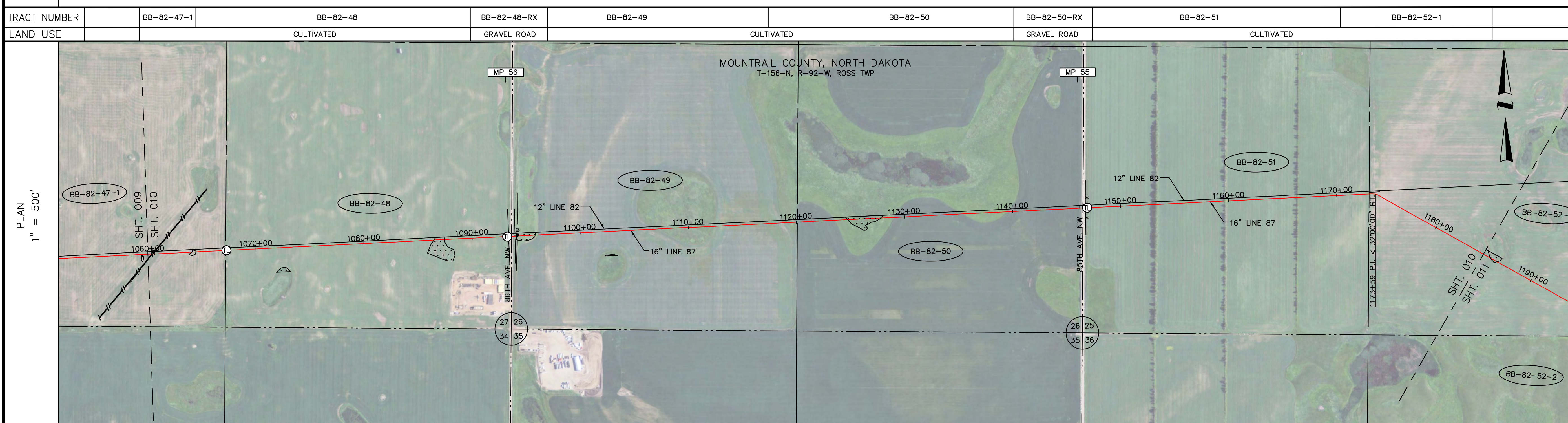
ENBRIDGE

BEAVER LODGE TO BERTHOLD

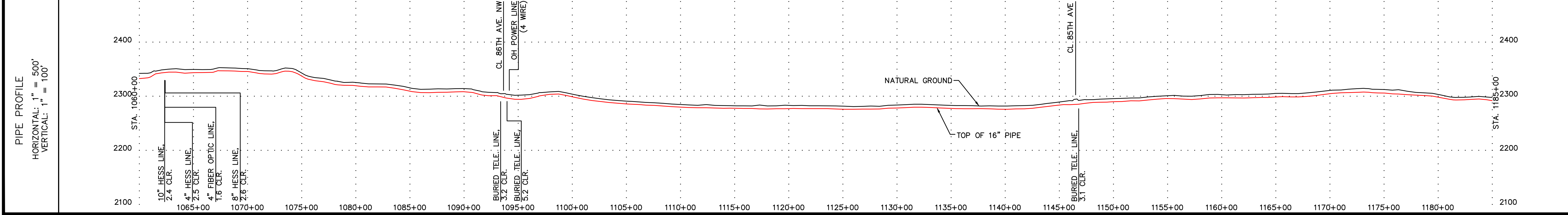
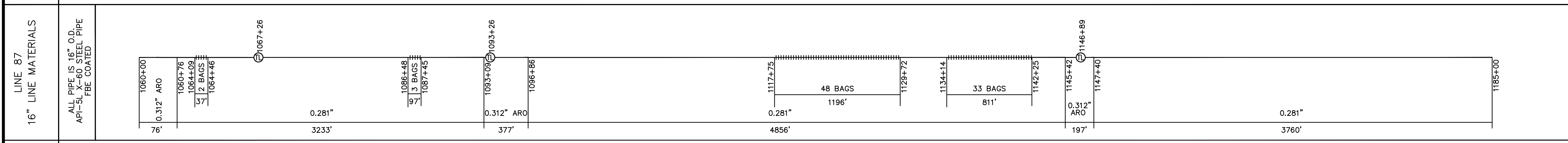
LINE 87
MP 58.9 to MP 56.6
LINE 87 STA. 935+00 to STA. 1060+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10509-A-15	009

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-47-1	BB-82-48	BB-82-48-RX	BB-82-49	BB-82-50	BB-82-50-RX	BB-82-51	BB-82-52-1
LAND USE		CULTIVATED	GRAVEL ROAD	CULTIVATED	CULTIVATED	GRAVEL ROAD	CULTIVATED	



ENVIRONMENTAL	27156092-w3	27156092-w1	26156092-w3	26156092-w1
LINE 87 CROSSING INFORMATION	1060+01 PIPELINE MARKER 1060+38 10" HESS LINE, 2.4 CLR. 1060+42 4" HESS LINE, 2.5 CLR. 1060+43 4" FIBER OPTIC LINE, 1.6 CLR. 1060+44 8" HESS LINE, 2.6 CLR. 1060+71 PIPELINE MARKER 1064+07 WETLAND BOUNDARY 1064+44 WETLAND BOUNDARY 1067+20 PIPELINE MARKER 1067+20 PROPERTY LINE 1067+26 TEST LEAD 1084+85 TRENCH BREAKER 1086+47 WETLAND BOUNDARY 1087+44 WETLAND BOUNDARY 1089+72 TRENCH BREAKER 1093+26 PIPELINE MARKER 1093+26 TEST LEAD 1093+33 ROAD RIGHT-OF-WAY 1093+66 BURIED TELE. LINE, 3.2 CLR. 1093+68 8" HESS LINE, NW 1093+67 SECTION LINE 1093+97 BURIED TELE. LINE, 5.2 CLR. 1094+00 ROAD RIGHT-OF-WAY 1094+13 WETLAND BOUNDARY 1094+19 OH POWER LINE (4 WIRE) 1095+65 WETLAND BOUNDARY 1120+10 PROPERTY LINE 1120+11 PIPELINE MARKER 1124+76 WETLAND BOUNDARY 1127+79 WETLAND BOUNDARY 1146+18 ROAD RIGHT-OF-WAY 1146+21 PIPELINE MARKER 1146+52 CL 85TH AVE 1146+52 SECTION LINE 1146+88 ROAD RIGHT-OF-WAY 1146+88 TEST LEAD 1146+89 PIPELINE MARKER 1146+90 FENCE 1172+99 PROPERTY LINE 1172+99 PIPELINE MARKER 1173+59 P.I. < 3200.00' RT.			



LEGEND	
<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER W WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE TEE STOPPLE TEE

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

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ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	LT - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	

FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	
A	AS-BUILT	3-28-13
NO.	REVISION	
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		APPROVED
		TRR

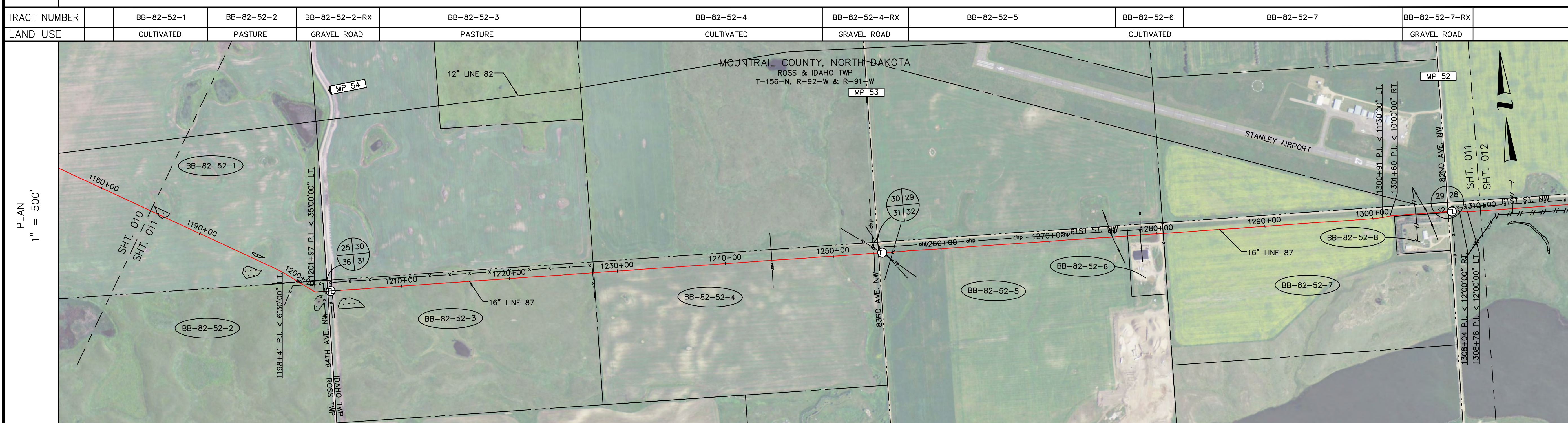
ENBRIDGE

BEAVER LODGE TO BERTHOLD

LINE 87
MP 56.6 to MP 54.2
LINE 87 STA. 1060+00 to STA. 1185+00
MOUNTRAIL COUNTY, NORTH DAKOTA

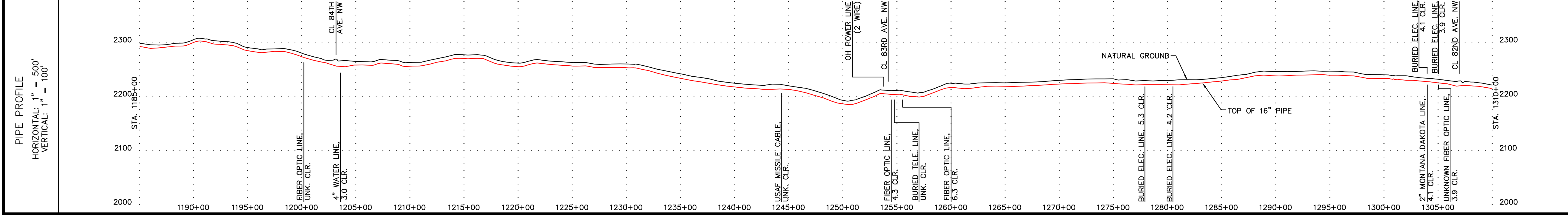
DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10510-A-15	010

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE									
LINE XX CROSSING INFORMATION										
TRACT NUMBER	BB-82-52-1	BB-82-52-2	BB-82-52-2-RX	BB-82-52-3	BB-82-52-4	BB-82-52-4-RX	BB-82-52-5	BB-82-52-6	BB-82-52-7	BB-82-52-7-RX
LAND USE	CULTIVATED	PASTURE	GRAVEL ROAD	PASTURE	CULTIVATED	GRAVEL ROAD	CULTIVATED	CULTIVATED	CULTIVATED	GRAVEL ROAD



ENVIRONMENTAL	25156092-w3
LINE 87 CROSSING INFORMATION	<p>1185+75 WETLAND BOUNDARY 1186+43 WETLAND BOUNDARY</p> <p>1198+41 P.L. < 6'30"00" L.I. 1199+31 TRENCH BREAKER 1200+00 SECTION LINE 1200+24 SECTION LINE 1200+69 PIPELINE MARKER 1200+77 FENCE 1202+78 FENCE 1202+78 FENCE RIGHT-OF-WAY 1202+53 CL. 84TH AVE. NW 1203+14 SECTION LINE 1203+40 TEST LEAD 1203+41 FENCE 1203+47 ROAD RIGHT-OF-WAY 1203+54 WATER LINE, 3.0 CLR.</p> <p>1212+66 TRENCH BREAKER</p> <p>1218+08 TRENCH BREAKER</p> <p>1227+70 FENCE 1227+80 PROPERTY LINE</p> <p>1233+09 TRENCH BREAKER</p> <p>1235+60 TRENCH BREAKER</p> <p>1238+07 TRENCH BREAKER</p> <p>1240+65 TRENCH BREAKER</p> <p>1244+31 USAF MISSILE CABLE, UNK. CLR. 1244+71 TRENCH BREAKER</p> <p>1248+04 TRENCH BREAKER</p> <p>1252+49 TRENCH BREAKER 1253+89 ROAD RIGHT-OF-WAY 1253+89 PIPELINE MARKER 1254+19 CL. 83RD AVE. NW 1254+53 FIBER OPTIC LINE, 4.3 CLR. 1254+53 ROAD RIGHT-OF-WAY 1254+53 TEST LEAD 1254+76 BURIED TELE. LINE, UNK. CLR. 1255+52 FIBER OPTIC LINE, 6.3 CLR. 1258+64 TRENCH BREAKER</p> <p>1275+87 BURIED ELEC. LINE, 5.3 CLR. 1277+28 PROPERTY LINE 1278+46 BURIED ELEC. LINE, 4.2 CLR.</p> <p>1280+31 DRIVEWAY 1280+55 PIPELINE MARKER 1280+52 PROPERTY LINE 1280+58 PROPERTY LINE</p> <p>1300+91 P.L. < 11'30"00" L.I. 1301+60 P.L. < 10'00"00" R.I. 1304+00 BURIED ELEC. LINE, 4.1 CLR. 1304+00 2" MONTANA DAKOTA LINE, 3.9 CLR. 1305+06 UNKNOWN FIBER OPTIC LINE, 3.9 CLR. 1305+06 BURIED ELEC. LINE, 3.9 CLR. 1306+96 SECTION LINE 1307+32 CL. 82ND AVE. NW 1307+32 ROAD RIGHT-OF-WAY 1307+34 PIPELINE MARKER 1307+36 FENCE 1308+58 P.L. < 12'00"00" L.I. 1308+78 P.L. < 12'00"00" L.I.</p>

LINE 87 16" LINE MATERIALS	<p>ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED</p> <p>1185+00 1185+77 1186+48</p> <p>1198+52</p> <p>1201+03 1201+93</p> <p>0.281" ARO 0.312" ARO 0.281" ARO 0.312" ARO</p> <p>1202+37</p> <p>1203+40</p> <p>1204+79</p> <p>1452'</p> <p>151'</p> <p>90' 11' 33'</p> <p>242'</p> <p>4886'</p> <p>161'</p> <p>2018'</p> <p>161'</p> <p>242'</p> <p>161'</p> <p>2480'</p> <p>162'</p> <p>250'</p> <p>1310+00</p>
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LEGEND	
<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER W WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) XX.XX 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE TEE STOPPLE TEE

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
L.T.	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK

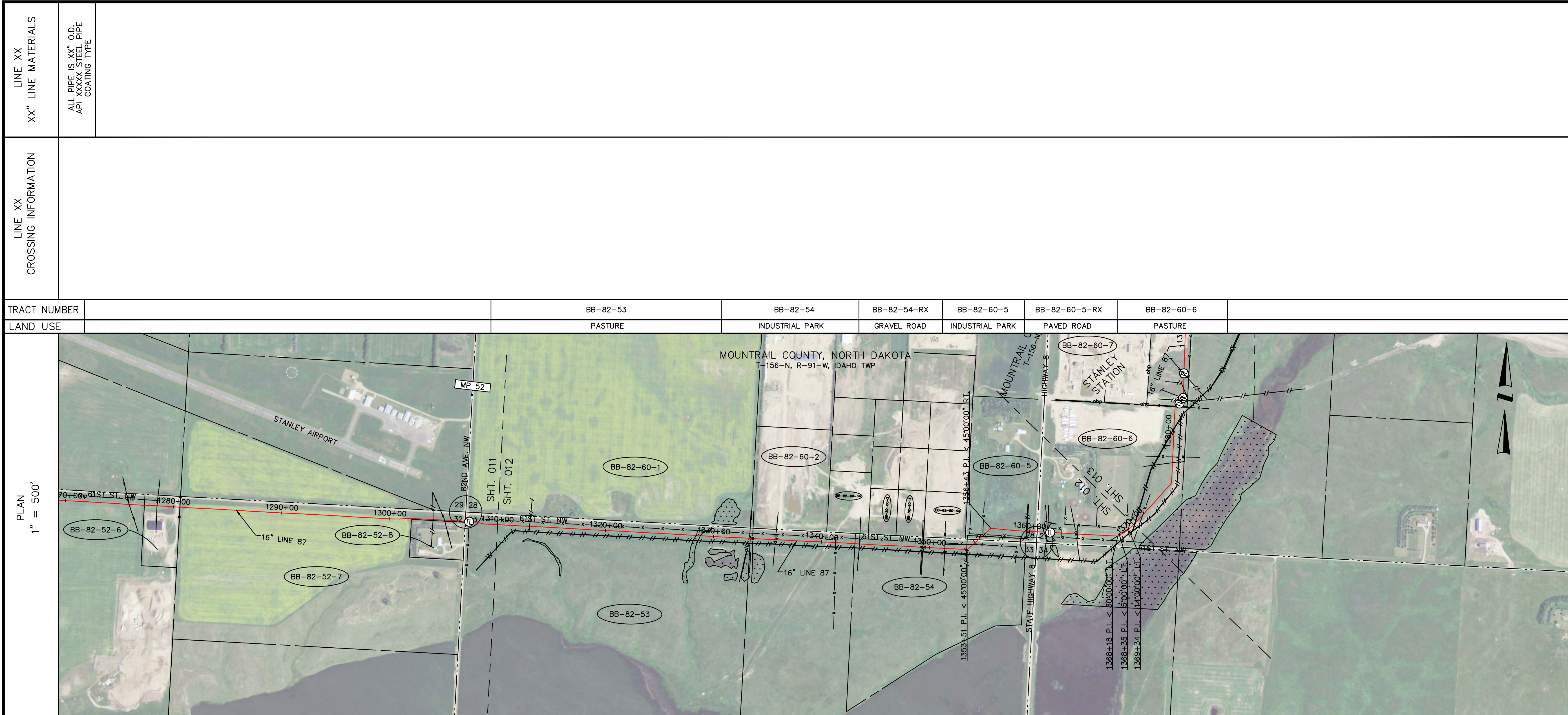
NO.	REFERENCE DRAWINGS		
110363-01R BASE	BASE DRAWING		
A	AS-BUILT		
NO.	REVISION	DATE	APPR.
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR

ENBRIDGE

BEAVER LODGE TO BERTHOLD

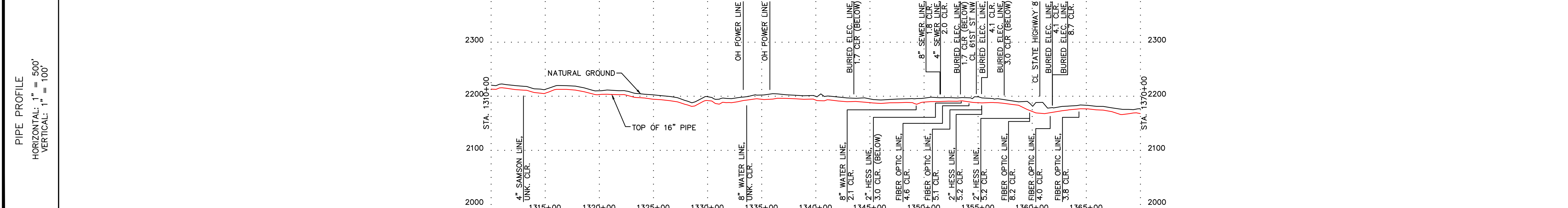
LINE 87
MP 54.2 to MP 51.9
LINE 87 STA. 1185+00 to STA. 1310+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10511-A-15	011



TRACT NUMBER	BB-82-53	BB-82-54	BB-82-54-RX	BB-82-60-5	BB-82-60-5-RX	BB-82-60-6
LAND USE	PASTURE	INDUSTRIAL PARK	GRAVEL ROAD	INDUSTRIAL PARK	PAVED ROAD	PASTURE

ENVIRONMENTAL	28156091-w1	27156091-w3	ESA 50.7
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LEGEND

	INTERSTATE HIGHWAY		M.P. MARKER
	US HIGHWAY		AERIAL M.P. MARKER
	STATE HIGHWAY		ROCK SHIELD
	CO. STATE AID HIGHWAYS		SET ON WEIGHTS
	COUNTY ROAD		CONCRETE COATING
	REPAIR SLEEVE		CASING
	RECTIFIER		MOTOR OPERATED VALVE
	WELD PLUS		REMOTE OPERATED VALVE
	TEST LEAD		HAND OPERATED VALVE
	TRACT NUMBER		TEE
	PCR (AC MITIGATION)		STOPPLE TEE

	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS

C/L	- CENTERLINE
MLV	- MAINLINE VALVE
MKR	- MARKER
R/W	- RIGHT OF WAY
P.I.	- POINT OF INTERSECTION
LT	- LEFT TURN
RT	- RIGHT TURN
MP	- MILEPOST

FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

A	AS-BUILT	3-28-13
NO.	REVISION	
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		APPROVED
		TRR

SCALE IN FEET
0 250 500 1000

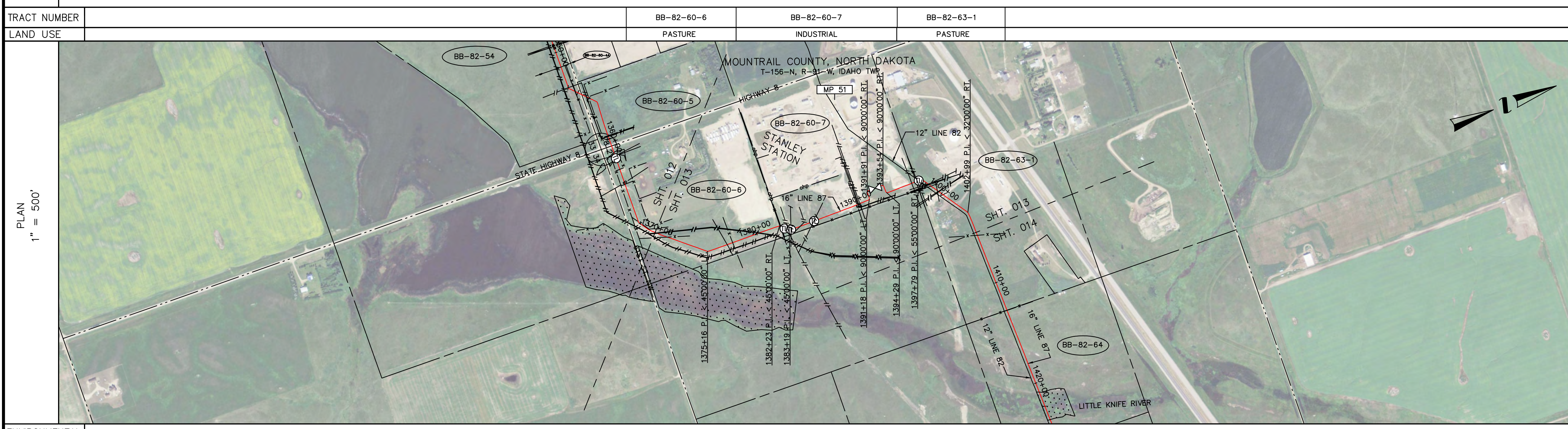
ENBRIDGE
BEAVER LODGE TO BERTHOLD

LINE 87
MP 51.9 to MP 51.2
LINE 87 STA. 1310+00 to STA. 1370+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10512-A-15	012

LINE XX XX" LINE MATERIALS	LINE XX CROSSING INFORMATION	TRACT NUMBER	BB-82-60-6	BB-82-60-7	BB-82-63-1
ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE		LAND USE	PASTURE	INDUSTRIAL	PASTURE

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



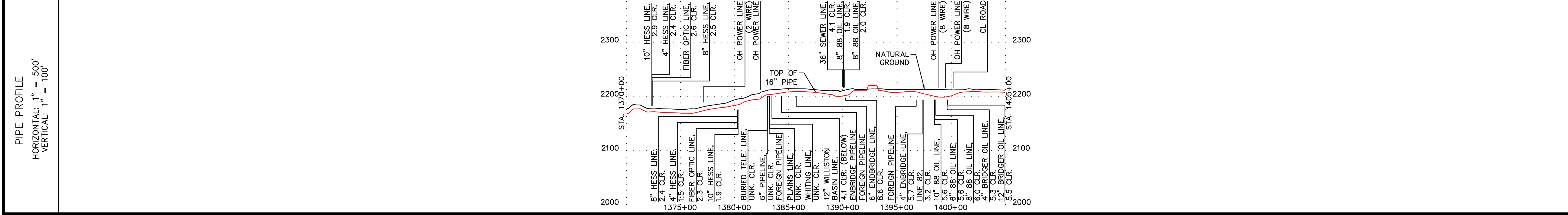
NOTES	
	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

ENVIRONMENTAL	
LINE 87 CROSSING INFORMATION	<p>1370+12 10" HESS LINE, 2.9 CLR. 1370+19 4" HESS LINE, 2.4 CLR. 1370+22 8" HESS LINE, 2.5 CLR. 1370+50 PIPELINE MARKER 1371+21 FENCE 1375+16 P.I. < 4500'00" LT. 1376+95 TRENCH BREAKER 1377+62 PIPELINE MARKER (2 WIRE) 1377+62 FENCE 1378+98 TRENCH BREAKER 1380+19 4" HESS LINE, 1.5 CLR. 1380+19 8" HESS LINE, 2.3 CLR. 1380+25 10" HESS LINE, 1.9 CLR. 1382+23 P.I. < 4500'00" RT. 1382+27 PROPERTY LINE 1382+78 FENCE 1382+78 FENCE 1382+78 OH POWER LINE 1382+75 TEST LEAD 1382+75 UNK. CLR. 1383+19 FOREIGN PIPELINE 1383+19 PLAINS LINE, UNK. CLR. 1383+40 4" HESS LINE, 1.5 CLR. 1383+40 8" WILUSTRON BASIN LINE, 4.1 CLR. (BELOW) 1383+43 TEST LEAD 1385+64 FOREIGN PIPELINE, UNK. CLR. 1385+71 TEST LEAD 1389+59 36" SEWER LINE, 4.4 CLR. 1390+01 1.9 CLR. 1390+08 8" EIGHTY-EIGHT OIL LINE, 8.6 CLR. 1390+21 2.0 OVERBRIDGE LINE, 8.6 CLR. 1391+19 P.I. < 9000'00" RT. 1391+51 P.I. < 9000'00" RT. 1392+54 MAINLINE VALVE 1394+29 P.I. < 9000'00" LT. 1396+78 FOREIGN PIPELINE 1397+22 PROPERTY LINE 1397+35 4" ENBRIDGE OIL LINE, 5.7 CLR. 1397+48 12" ENBRIDGE LINE 82, 5.5 CLR. 1397+49 TEST LEAD 1397+49 PIPELINE MARKER 1397+79 P.I. < 5500'00" RT. 1398+59 8" OIL LINE, 5.6 CLR. 1398+59 8" OIL LINE, 6.0 CLR. 1398+60 8" OIL LINE, 6.0 CLR. 1398+61 OH POWER LINE (8 WIRE) 1398+64 4" BRIDGER OIL LINE, 5.3 CLR. 1399+70 12" BRIDGER OIL LINE, 5.5 CLR. 1400+19 CL ROAD 1402+99 P.I. < 3200'00" RT.</p>

ABBREVIATIONS	
C/L	- CENTERLINE
MLV	- MAINLINE VALVE
MKR	- MARKER
R/W	- RIGHT OF WAY
P.I.	- POINT OF INTERSECTION
LT	- LEFT TURN
RT	- RIGHT TURN
MP	- MILEPOST

LINE 87 16" LINE MATERIALS	
ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED	<p>1370+00 0.281" 1375+10 0.312" ARO 1375+26 0.312" 1382+16 0.312" 1382+32 0.312" 1383+11 0.312" 1383+28 0.312" 1385+43 0.312" 1385+71 0.312" 1389+66 0.312" 1390+48 0.312" 1391+02 0.375" ARO 1391+30 0.375" 1392+04 0.375" 1392+72 0.375" 1392+77 0.375" 1393+35 0.375" 1393+42 0.375" 1394+17 0.375" 1394+55 0.281" 1397+71 0.312" 1397+89 0.312" ARO 1400+69 0.281" 1405+00 0.281"</p>

FIELD BOOK		
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



NO.		REVISION	
A	AS-BUILT	3-28-13	
NO.	REVISION	DATE	APPR.

SCALE 1"=500'

DATE 3-1-13

DRAWN RVB

APPROVED TRR

SCALE IN FEET

ENBRIDGE

BEAVER LODGE TO BERTHOLD

LINE 87

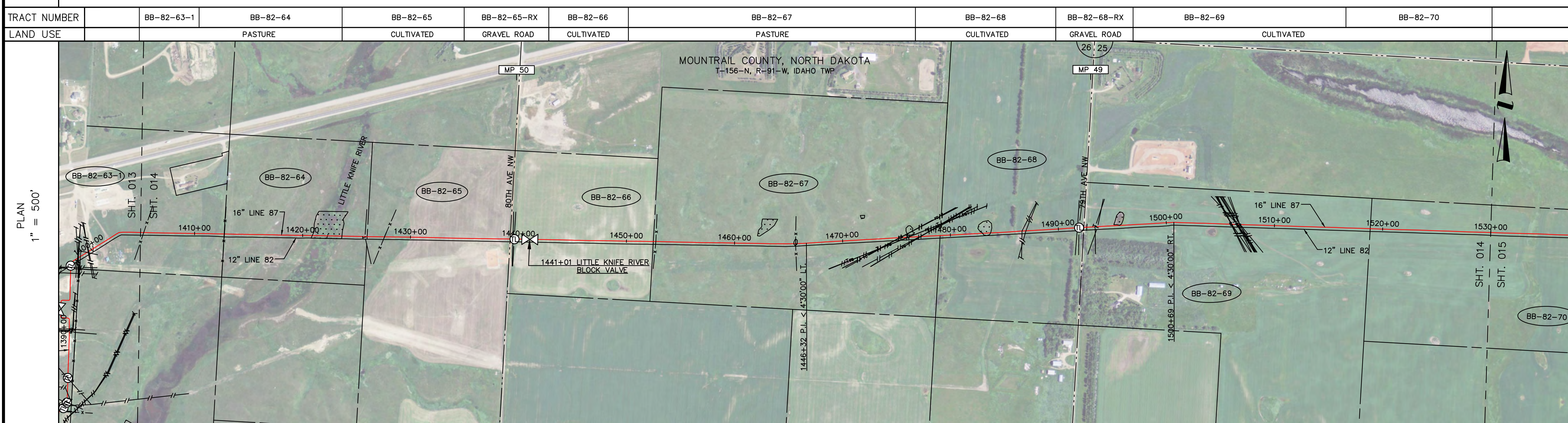
MP 51.2 to MP 26.6

LINE 87 STA. 1370+00 to STA. 1405+00

MOUNTRAIL COUNTY, NORTH DAKOTA

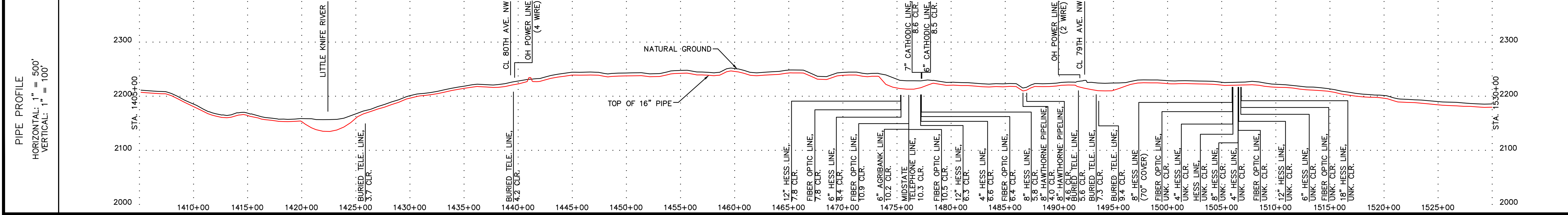
DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10513-A-15	013

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE									
LINE XX CROSSING INFORMATION										
TRACT NUMBER	BB-82-63-1	BB-82-64	BB-82-65	BB-82-65-RX	BB-82-66	BB-82-67	BB-82-68	BB-82-68-RX	BB-82-69	BB-82-70
LAND USE	PASTURE		CULTIVATED	GRAVEL ROAD	CULTIVATED	PASTURE	CULTIVATED	GRAVEL ROAD	CULTIVATED	



ENVIRONMENTAL	27156091-w1	26156091-w4	26156091-w1
LINE 87 CROSSING INFORMATION	1405+28 FENCE 1408+01 TRENCH BREAKER 1409+96 TRENCH BREAKER 1411+98 TRENCH BREAKER 1412+74 PROPERTY LINE 1415+44 TRENCH BREAKER 1420+90 WETLAND BOUNDARY 1422+30 LITTLE KNIFE RIVER 1423+63 WETLAND BOUNDARY 1425+79 BURIED TELE. LINE, 3.7 CLR. 1425+96 PROPERTY LINE 1427+60 FENCE 1428+76 TRENCH BREAKER 1431+03 TRENCH BREAKER 1432+66 TRENCH BREAKER 1435+50 TRENCH BREAKER 1438+89 ROAD RIGHT-OF-WAY 1439+22 SECTION LINE 1439+22 CL 80TH AVE. NW 1439+39 DITCH 1439+55 ROAD TELE. LINE, 4.2 CLR. 1439+55 ROAD RIGHT-OF-WAY 1439+59 PIPELINE MARKER (4 WIRE) 1439+59 PROPERTY LINE 1441+01 LITTLE KNIFE RIVER BLOCK VALVE 1443+14 TRENCH BREAKER 1452+49 PROPERTY LINE 1452+79 TRENCH BREAKER 1453+75 TRENCH BREAKER 1456+05 TRENCH BREAKER 1458+86 TRENCH BREAKER 1446+32 P.I.L. < 4'30"00" I.T. 1465+47 WETLAND BOUNDARY 1465+64 FENCE 1465+79 WETLAND BOUNDARY 1466+72 TRENCH BREAKER 1468+13 TRENCH BREAKER 1475+32 12" HESS LINE, 7.8 CLR. 1475+35 FIBER OPTIC LINE, 7.8 CLR. 1476+08 FIBER OPTIC LINE, 10.5 CLR. 1476+08 6" AGRIBANK LINE, 10.2 CLR. 1476+09 MIDSTATE TELEPHONE LINE. 1476+09 FIBER OPTIC LINE, 10.5 CLR. 1477+17 12" HESS LINE, 6.3 CLR. 1477+22 4" HESS LINE, 6.6 CLR. 1477+24 4" HESS LINE, 6.4 CLR. 1477+24 FIBER OPTIC LINE, 6.4 CLR. 1477+26 8" HESS LINE, 5.8 CLR. 1478+79 PROPERTY LINE, 8.5 CLR. 1482+98 WETLAND BOUNDARY 1483+71 WETLAND BOUNDARY 1485+64 CL 8" HAWTHORNE PIPELINE, 4.0 CLR. 1487+00 8" HAWTHORNE PIPELINE, 4.6 CLR. 1491+78 BURIED TELE. LINE, 5.6 CLR. 1491+91 OH POWER LINE (2 WIRE) 1491+92 TEST LEAD 1492+04 ROAD RIGHT-OF-WAY 1492+11 DITCH 1492+21 TOP OF BANK 1492+21 SECTION LINE 1492+37 SECTION LINE 1492+51 TOP OF BANK 1492+63 DITCH RIGHT-OF-WAY 1492+70 TOP OF BANK 1493+42 BURIED TELE. LINE, 7.3 CLR. 1493+65 BURIED TELE. LINE, 9.4 CLR. 1500+69 P.I.L. < 4'30"00" RT. 1505+99 8" HESS LINE, UNK. CLR. 1506+03 18" HESS LINE, UNK. CLR. 1506+04 18" HESS LINE, UNK. CLR. 1506+53 6" HESS LINE, UNK. CLR. 1506+53 6" HESS LINE, UNK. CLR. 1506+56 FIBER OPTIC LINE, UNK. CLR. 1506+56 FIBER OPTIC LINE, UNK. CLR. 1506+79 6" HESS LINE, UNK. CLR. 1506+83 18" HESS LINE, UNK. CLR. 1518+86 PROPERTY LINE		

LINE 87 16" LINE MATERIALS	ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED																		
NO.	1405+00	1419+87	1425+06	1438+71	1439+59	1440+00	1441+01	1441+34	1465+51	1473+96	1478+28	1482+72	1483+50	1491+67	1491+92	1492+96	1506+90	1507+83	1530+00
0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.312"	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"	0.312" ARO	0.281"
1487'	519'	1365'	129'	69'	64'	3263'	432'	1338'	129'	1294'	193'	2217'							



LEGEND	
XX INTERSTATE HIGHWAY	XXXX M.P. MARKER
X US HIGHWAY	XXXX AERIAL M.P. MARKER
XX STATE HIGHWAY	--- ROCK SHIELD
XX CO. STATE AID HIGHWAYS	SET ON WEIGHTS
XX COUNTY ROAD	/// CONCRETE COATING
□ REPAIR SLEEVE	--- CASING
R RECTIFIER	M MOTOR OPERATED VALVE
W WELD PLUS	R REMOTE OPERATED VALVE
TL TEST LEAD	X HAND OPERATED VALVE
X-XXX-X TRACT NUMBER	TEE
◆ PCR (AC MITIGATION) XX.XX	STOPPLE TEE

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	LT - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK

NO.	110363-01R BASE	REFERENCE DRAWINGS	BASE DRAWING
A	AS-BUILT	3-28-13	
NO.	REVISION		DATE APPR.
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR
SCALE IN FEET			

ENBRIDGE

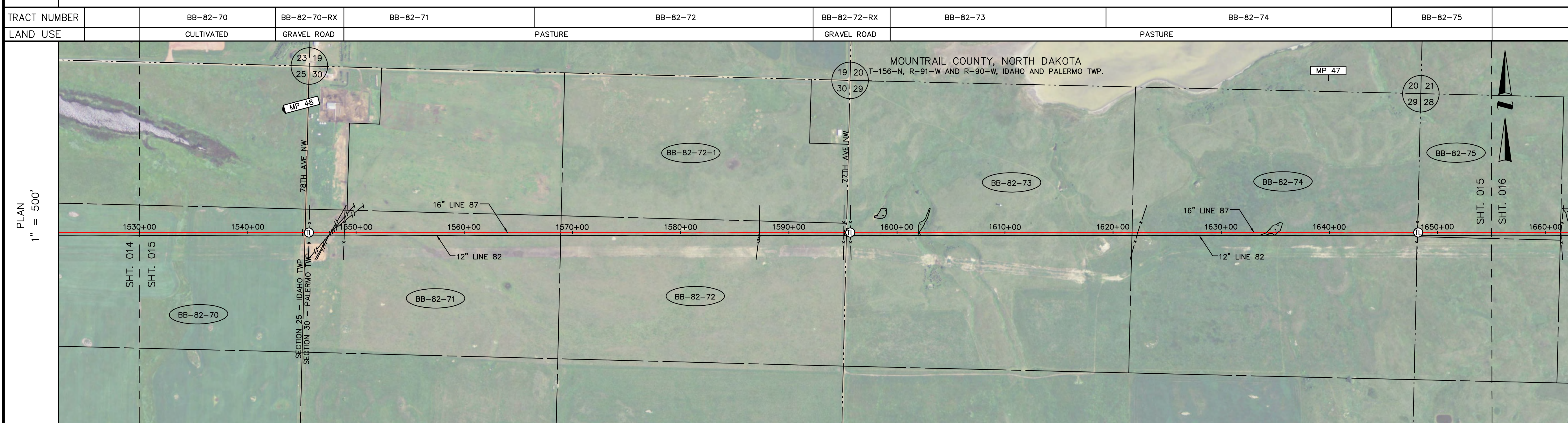
BEAVER LODGE TO BERTHOLD

LINE 87
MP 50.7 to MP 48.3
LINE 87 STA. 1405+00 to STA. 1530+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10514-A-17	014

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-70	BB-82-70-RX	BB-82-71	BB-82-72	BB-82-72-RX	BB-82-73	BB-82-74	BB-82-75
LAND USE	CULTIVATED	GRAVEL ROAD	PASTURE	PASTURE	GRAVEL ROAD	PASTURE	PASTURE	

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

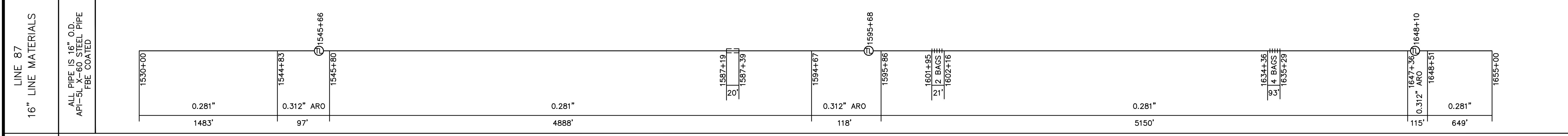
NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

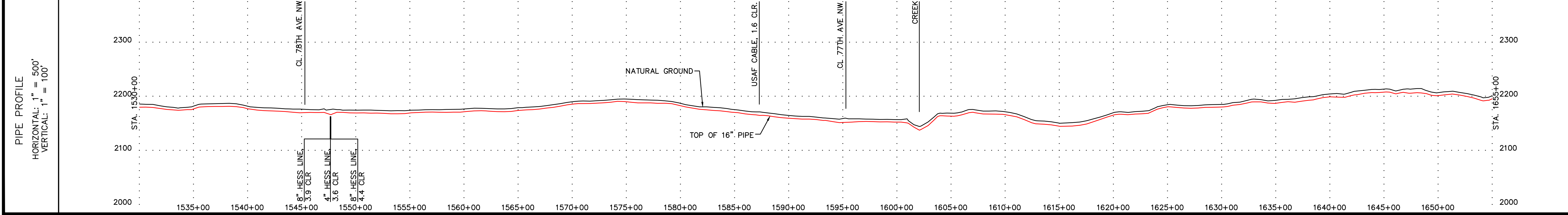
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ENVIRONMENTAL		29156090-w2	29156090-w1
LINE 87 CROSSING INFORMATION	<p>1544+97 ROAD, RIGHT-OF-WAY 1545+29 CL 78TH AVE NW 1545+30 SECTION LINE 1545+49 DITCH 1545+66 TEST LEAD 1545+66 TEST LEAD 1545+66 PIPELINE MARKER 1547+64 4" HESS LINE, 3.9 CLR 1547+64 4" HESS LINE, 3.6 CLR 1547+69 8" HESS LINE, 4.4 CLR 1548+92 FENCE</p> <p>1588+92 PROPERTY LINE</p> <p>1580+16 TRENCH BREAKER</p> <p>1585+10 TRENCH BREAKER</p> <p>1587+29 USAF CABLE, 1.6 CLR.</p> <p>1584+99 ROAD, RIGHT-OF-WAY 1585+14 DITCH 1585+29 CL 77TH AVE NW 1585+32 SECTION LINE 1585+65 ROAD, RIGHT-OF-WAY 1585+68 TEST LEAD 1585+68 PIPELINE MARKER 1585+69 FENCE</p> <p>1602+00 WETLAND BOUNDARY 1602+08 CREEK 1602+09 WETLAND BOUNDARY 1603+25 TRENCH BREAKER</p> <p>1611+49 TRENCH BREAKER</p> <p>1614+70 TRENCH BREAKER</p> <p>1617+03 TRENCH BREAKER</p> <p>1619+54 TRENCH BREAKER</p> <p>1621+75 PROPERTY LINE 1622+28 FENCE</p> <p>1634+20 WETLAND BOUNDARY 1635+22 WETLAND BOUNDARY</p> <p>1648+10 TEST LEAD 1648+10 PIPELINE MARKER 1648+11 FENCE 1648+15 SECTION LINE</p>		

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



NO.	DATE	DRAWN	APPROVED	DATE	APPR.
1	3-1-13	RVB	TRR		



SCALE 1"=500'

SCALE IN FEET

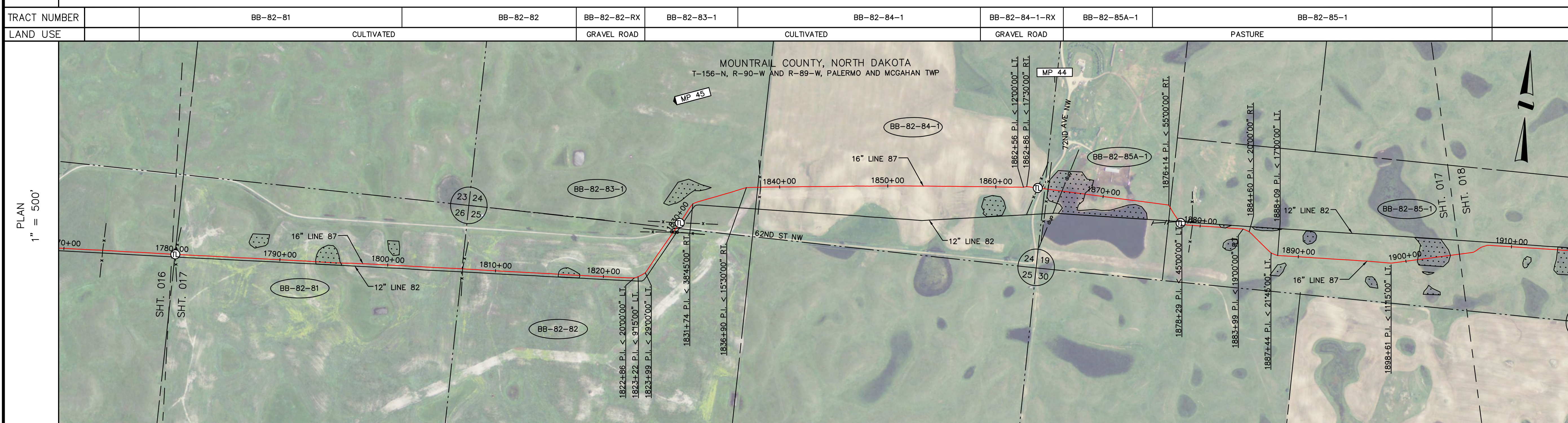
ENBRIDGE

BEAVER LODGE TO BERTHOLD

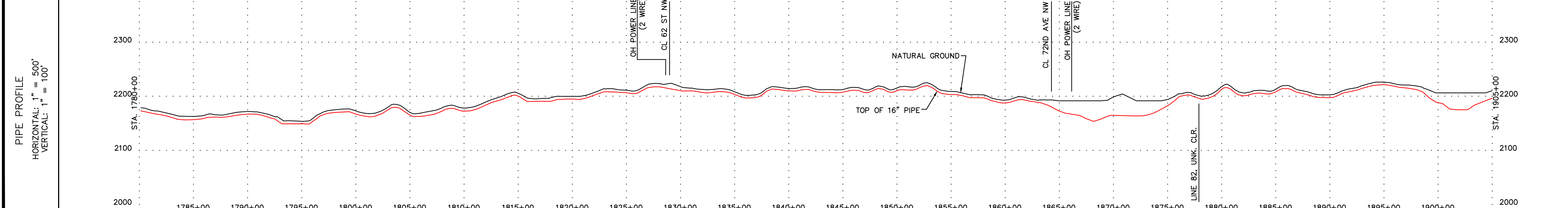
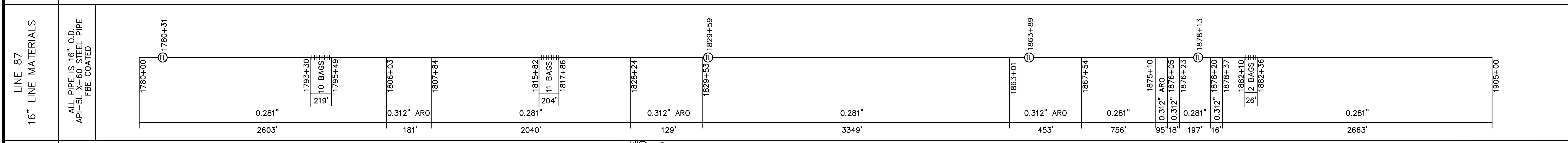
LINE 87
MP 48.3 to MP 46.7
LINE 87 STA. 1530+00 to STA. 1655+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10515-A-17	015

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-81	BB-82-82	BB-82-82-RX	BB-82-83-1	BB-82-84-1	BB-82-84-1-RX	BB-82-85A-1	BB-82-85-1
LAND USE	CULTIVATED			GRAVEL ROAD	CULTIVATED		GRAVEL ROAD	PASTURE



ENVIRONMENTAL	26156090-w2	25156090-w1	19156089-w11	19156089-w10	19156089-w3
LINE 87 CROSSING INFORMATION	<p>1780+29 PROPERTY LINE 1780+31 FENCE 1780+31 TEST LEAD 1780+31 PIPELINE MARKER 1780+31 TRENCH BREAKER 1780+32 TRENCH BREAKER 1784+31 TRENCH BREAKER 1786+44 TRENCH BREAKER</p> <p>1793+33 WETLAND BOUNDARY 1795+64 WETLAND BOUNDARY 1795+72 TRENCH BREAKER</p> <p>1802+28 TRENCH BREAKER 1804+35 TRENCH BREAKER</p> <p>1806+89 SECTION LINE 1806+95 FENCE 1808+11 TRENCH BREAKER</p> <p>1810+96 TRENCH BREAKER 1812+98 TRENCH BREAKER</p> <p>1815+48 TRENCH BREAKER 1815+85 WETLAND BOUNDARY 1817+81 WETLAND BOUNDARY 1822+00 TRENCH BREAKER</p> <p>1822+56 P.I. < 20'00"00" RT. 1823+22 P.I. < 9'15"00" LT. 1823+99 P.I. < 28'00"00" LT.</p> <p>1828+35 TOP OF BANK 1828+55 ROAD RIGHT-OF-WAY 1828+55 FENCE 1828+59 OH POWER LINE (2 WIRE) 1828+68 TOP OF BANK 1828+95 CL 62 ST NW 1828+99 SECTION LINE 1829+37 ROAD RIGHT-OF-WAY 1829+46 TOP OF BANK 1829+59 PIPELINE MARKER 1831+74 P.I. < 38'45"00" RT. 1831+74 P.I. < 15'30"00" RT. 1831+74 P.I. < 17'30"00" RT. 1836+90 P.I. < 15'30"00" RT. 1837+84 TRENCH BREAKER 1837+97 PROPERTY LINE 1838+24 FENCE</p> <p>1853+46 TRENCH BREAKER 1855+34 TRENCH BREAKER</p> <p>1859+27 TRENCH BREAKER</p> <p>1862+56 P.I. < 12'00"00" LT. 1862+56 P.I. < 17'30"00" RT.</p> <p>1863+89 FENCE 1863+89 PIPELINE MARKER 1863+89 ROAD RIGHT-OF-WAY 1864+01 CULVERT AVE NW 1864+37 TOP OF BANK 1864+54 SECTION LINE 1864+67 ROAD RIGHT-OF-WAY 1864+86 WETLAND BOUNDARY 1866+16 OH POWER LINE (2 WIRE) 1865+71 WETLAND BOUNDARY 1870+70 TOP OF BANK</p> <p>1876+14 P.I. < 55'00"00" RT. 1876+36 PROPERTY LINE 1877+99 1/2 CLR 1878+13 TEST LEAD 1878+13 PIPELINE MARKER 1878+28 P.I. < 45'00"00" LT.</p> <p>1879+28 FENCE</p> <p>1882+08 WETLAND BOUNDARY 1882+40 WETLAND BOUNDARY</p> <p>1883+99 P.I. < 19'00"00" RT. 1884+60 P.I. < 20'00"00" RT. 1887+49 P.I. < 21'45"00" LT. 1888+09 P.I. < 17'30"00" LT.</p> <p>1888+61 P.I. < 11'15"00" LT.</p> <p>1889+23 TOP OF BANK 1901+10 WETLAND BOUNDARY 1904+16 WETLAND BOUNDARY</p>				



<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER W WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) XX.XX 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE TEE STOPPLE TEE
--	--

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

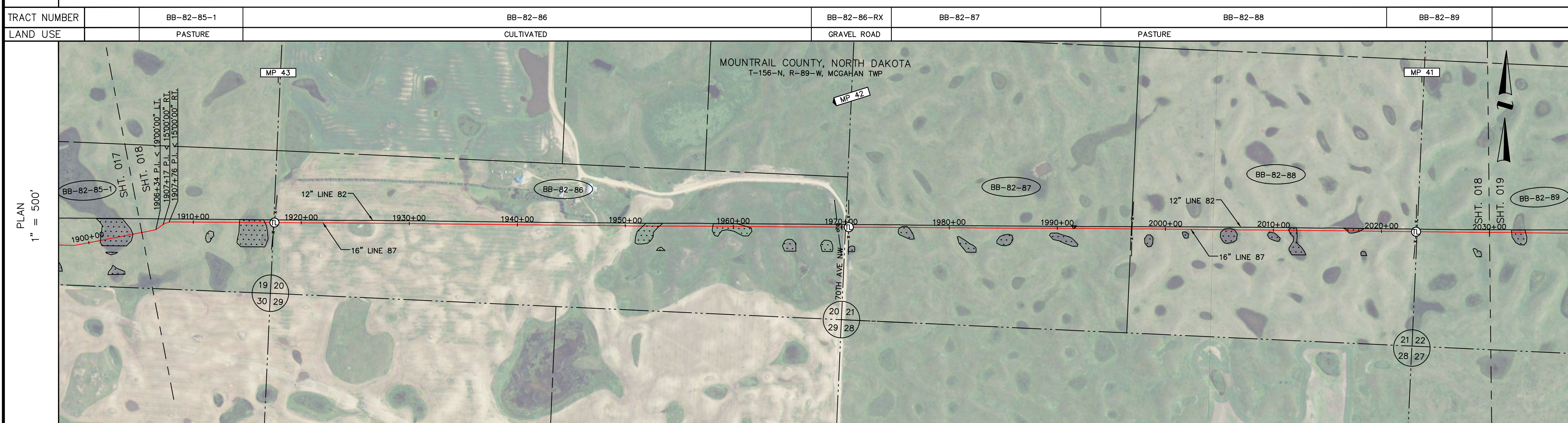
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
L.T.	- LEFT TURN	
R.T.	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK

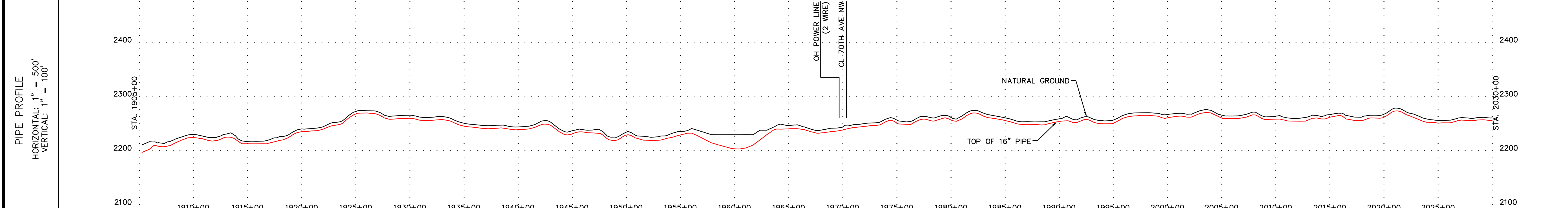
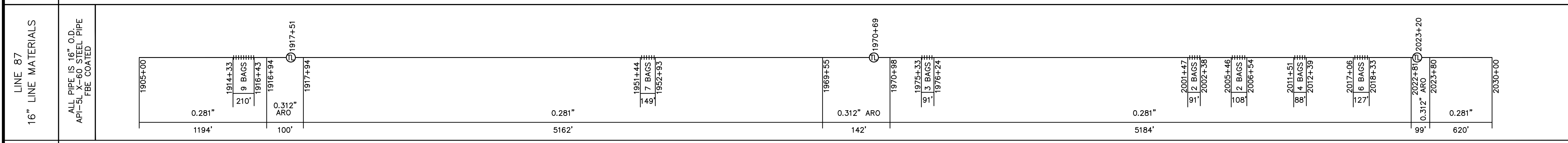
NO.	REFERENCE DRAWINGS
110363-01R BASE	BASE DRAWING

A	AS-BUILT	3-28-13	
NO.	REVISION	DATE	APPR.
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR
BEAVER LODGE TO BERTHOLD			
LINE 87 MP 45.2 to MP 43.3 LINE 87 STA. 1780+00 to STA. 1905+00 MOUNTRAIL COUNTY, NORTH DAKOTA			
DRAWING NUMBER			ROUTE SHEET
D-87-5.92-10517-A-17			017

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE					
LINE XX CROSSING INFORMATION						
TRACT NUMBER	BB-82-85-1	BB-82-86	BB-82-86-RX	BB-82-87	BB-82-88	BB-82-89
LAND USE	PASTURE	CULTIVATED	GRAVEL ROAD	PASTURE	PASTURE	PASTURE



ENVIRONMENTAL	19156089-w1	20156089-w5	20156089-w3	21156089-w12	21156089-w5	21156089-w2	22156089-w3
LINE 87 CROSSING INFORMATION	<p>1905+46 TOP OF BANK 1906+34 P.L. < 1900'00" LI. 1907+17 P.L. < 1530'00" RT. 1907+76 P.L. < 1530'00" RTL</p> <p>1914+28 WETLAND BOUNDARY 1916+63 WETLAND BOUNDARY 1917+44 SECTION LINE 1917+50 FENCE 1917+51 TEST LEAD 1917+51 PIPELINE MARKER</p> <p>1924+41 TRENCH BREAKER 1928+40 TRENCH BREAKER</p> <p>1934+88 TRENCH BREAKER 1936+39 TRENCH BREAKER</p> <p>1943+33 TRENCH BREAKER 1948+23 TRENCH BREAKER 1949+48 TRENCH BREAKER 1951+06 TRENCH BREAKER 1951+65 WETLAND BOUNDARY 1953+16 WETLAND BOUNDARY 1955+74 TRENCH BREAKER</p> <p>1955+53 TRENCH BREAKER 1957+00 TOP OF BANK 1958+11 WETLAND BOUNDARY</p> <p>1961+21 WETLAND BOUNDARY</p> <p>1969+67 OH POWER LINE (2 WIRE) 1970+07 ROAD RIGHT-OF-WAY 1970+21 TOP OF BANK 1970+40 SECTION LINE NW 1970+50 TOP OF BANK 1970+61 DITCH 1970+69 TOP OF BANK 1970+69 TEST LEAD 1970+69 PIPELINE MARKER 1974+65 TRENCH BREAKER 1974+65 WETLAND BOUNDARY 1976+19 WETLAND BOUNDARY 1976+64 TRENCH BREAKER</p> <p>1983+08 TRENCH BREAKER 1985+15 TRENCH BREAKER</p> <p>1986+04 TRENCH BREAKER 1986+91 FENCE</p> <p>2005+19 TRENCH BREAKER 2005+39 WETLAND BOUNDARY 2006+39 WETLAND BOUNDARY 2006+99 TRENCH BREAKER</p> <p>2011+43 WETLAND BOUNDARY 2012+15 WETLAND BOUNDARY 2015+27 TRENCH BREAKER</p> <p>2016+28 TRENCH BREAKER 2016+83 WETLAND BOUNDARY 2018+56 TRENCH BREAKER 2018+56 TRENCH BREAKER</p> <p>2020+66 TRENCH BREAKER 2021+91 TRENCH BREAKER 2023+20 TEST LEAD 2023+20 PIPELINE MARKER 2023+22 FENCE 2023+22 SECTION LINE 2024+08 TRENCH BREAKER</p>						



LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE

	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

NOTES

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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	

FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

NO.	AS-BUILT	3-28-13
REVISION		
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
APPROVED	DATE	APPR.
TRR		

SCALE IN FEET

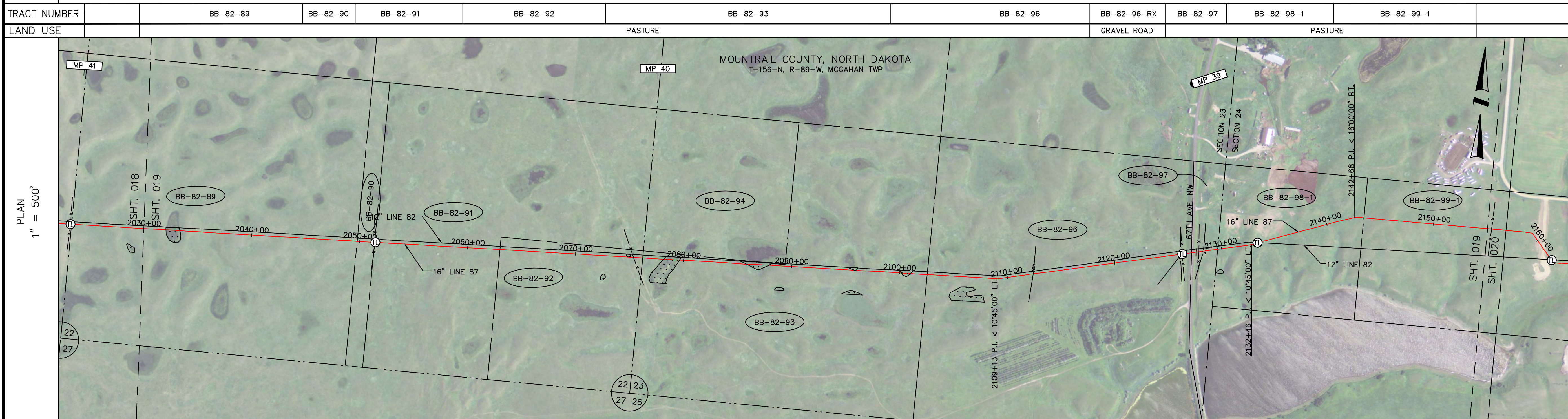
ENBRIDGE

BEAVER LODGE TO BERTHOLD

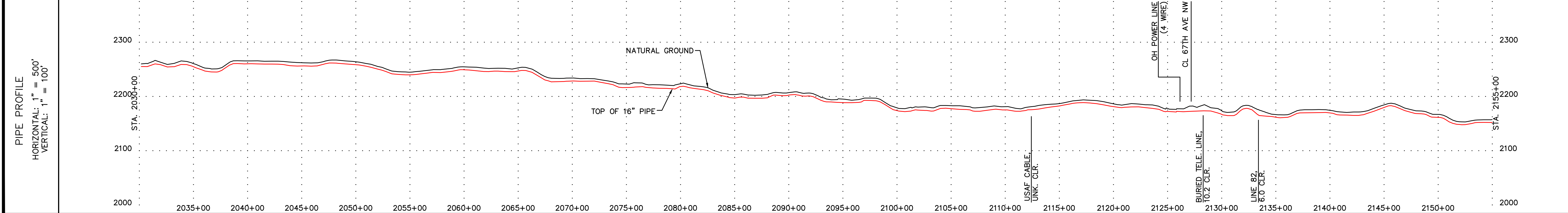
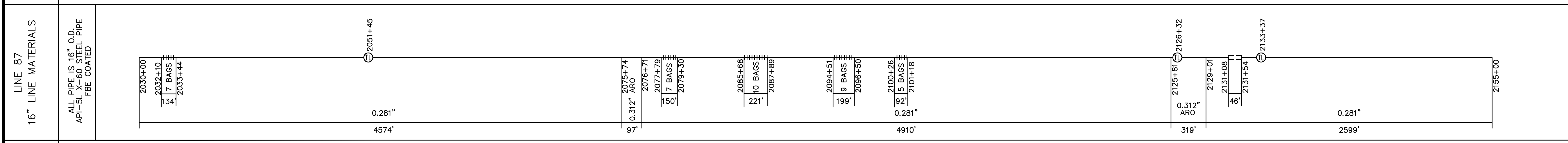
LINE 87
MP 43.3 to MP 40.9
LINE 87 STA. 1905+00 to STA. 2030+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10518-A-17	018

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE										
LINE XX CROSSING INFORMATION											
TRACT NUMBER	BB-82-89	BB-82-90	BB-82-91	BB-82-92	BB-82-93	BB-82-96	BB-82-96-RX	BB-82-97	BB-82-98-1	BB-82-99-1	
LAND USE	PASTURE					GRAVEL ROAD	PASTURE				



ENVIRONMENTAL	22156089-w3	23156089-w7	23156089-w6	23156089-w3	23156089-w2
LINE 87 CROSSING INFORMATION	<p>2031+90 TRENCH BREAKER 2032+10 WETLAND BOUNDARY 2033+15 TRENCH BREAKER 2034+97 TRENCH BREAKER</p> <p>2049+76 PROPERTY LINE 2051+38 PROPERTY LINE 2051+45 TEST LEAD 2051+45 PIPELINE MARKER 2052+15 TRENCH BREAKER 2052+17 TRENCH BREAKER</p> <p>2062+98 PROPERTY LINE 2066+44 TRENCH BREAKER</p> <p>2072+32 TRENCH BREAKER 2074+15 TRENCH BREAKER 2075+35 FENCE 2076+21 SECTION LINE 2076+98 TRENCH BREAKER 2078+15 WETLAND BOUNDARY 2079+62 WETLAND BOUNDARY</p> <p>2085+25 TRENCH BREAKER 2085+87 WETLAND BOUNDARY 2087+91 WETLAND BOUNDARY 2088+27 TRENCH BREAKER</p> <p>2089+88 WETLAND BOUNDARY 2090+10 WETLAND BOUNDARY 2096+94 TRENCH BREAKER</p> <p>2089+30 TRENCH BREAKER 2100+00 WETLAND BOUNDARY 2101+53 TRENCH BREAKER 2102+57 PROPERTY LINE</p> <p>2109+13 P.L. < 10'45'00" LI. 2112+42 BURIED TELE. LINE, UNK. CLR.</p> <p>2126+19 OH POWER LINE (4 WIRE) 2126+30 FENCE 2126+32 PIPELINE MARKER 2126+41 ROAD RIGHT-OF-WAY 2126+60 DITCH 2127+04 TOP OF BANK 2127+17 PROPERTY LINE 2127+36 TOP OF BANK 2127+60 DITCH 2127+87 FENCE RIGHT-OF-WAY 2128+30 BURIED TELE. LINE, 10.2 CLR. 2129+61 SECTION LINE 2132+46 P.L. < 10'45'00" LI. 2133+37 TEST LEAD 2133+43 ENBRIDGE LINE 82, 6.0 CLR. 2142+68 P.L. < 16'00'00" RTL. 2143+51 PROPERTY LINE</p>				



LEGEND	
<ul style="list-style-type: none"> XX INTERSTATE HIGHWAY X US HIGHWAY XX STATE HIGHWAY XX CO. STATE AID HIGHWAYS XX COUNTY ROAD □ REPAIR SLEEVE R RECTIFIER W WELD PLUS TL TEST LEAD X-XXX-X TRACT NUMBER ◆ PCR (AC MITIGATION) XX.XX 	<ul style="list-style-type: none"> XXXX M.P. MARKER XXXX AERIAL M.P. MARKER --- ROCK SHIELD SET ON WEIGHTS /// CONCRETE COATING --- CASING M MOTOR OPERATED VALVE R REMOTE OPERATED VALVE X HAND OPERATED VALVE TEE STOPPLE TEE

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
---	PHONE LINE
---	BURIED POWER LINE
---	OVERHEAD POWER LINE
---	WATER LINE
---	GAS LINE
---	FIBER OPTIC CABLE LINE
---	SEWER
---	PROPERTY LINE
---	FENCE
---	RAILROADS
---	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK

NO.	REFERENCE DRAWINGS		
110363-01R BASE	BASE DRAWING		
A	AS-BUILT		
NO.	REVISION	DATE	APPR.
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR

SCALE IN FEET
0 250 500 1000

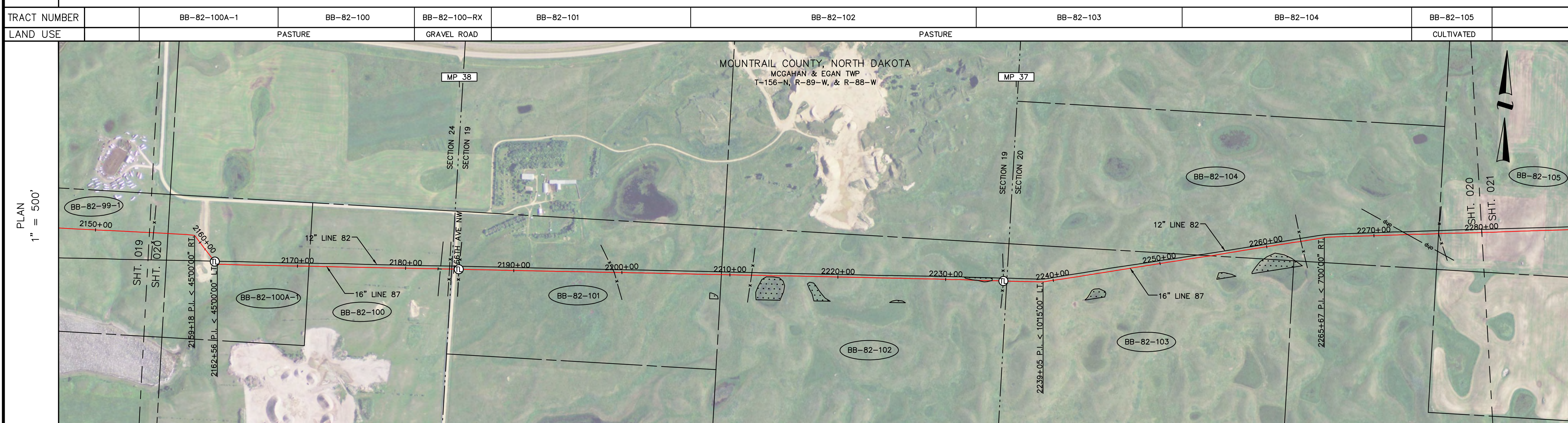
ENBRIDGE
BEAVER LODGE TO BERTHOLD

LINE 87
MP 40.9 to MP 38.5
LINE 87 STA. 2030+00 to STA. 2155+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10519-A-17	019

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-100A-1	BB-82-100	BB-82-100-RX	BB-82-101	BB-82-102	BB-82-103	BB-82-104	BB-82-105
LAND USE	PASTURE		GRAVEL ROAD	PASTURE				CULTIVATED

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



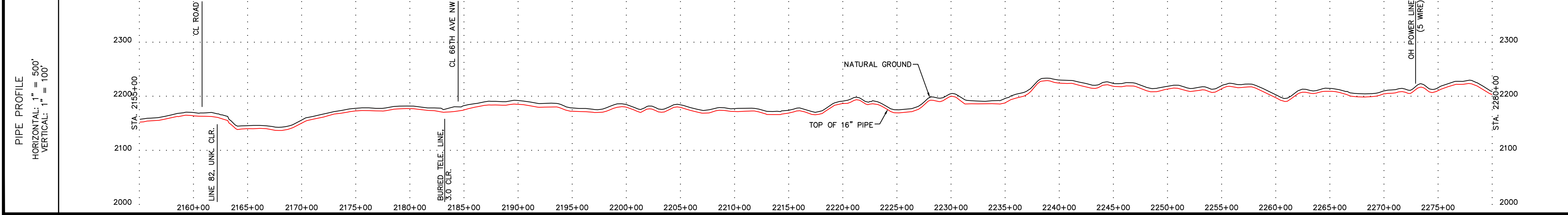
NOTES	
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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.	

ENVIRONMENTAL	LINE 87 CROSSING INFORMATION
19156088-w1	2155+38 FENCE 2156+71 PROPERTY LINE 2159+18 P.L. < 45'00"00" RT. 2160+77 CL ROAD 2162+17 12" ENBRIDGE LINE 82, 3.0 CLR. 2162+23 PIPELINE MARKER 2162+56 P.L. < 45'00"00" LT. 2169+55 TRENCH BREAKER 2171+08 PROPERTY LINE 2172+01 TRENCH BREAKER 2174+52 TRENCH BREAKER 2183+22 BURIED TELE. LINE, 3.0 CLR. 2183+63 ROAD, RIGHT-OF-WAY 2184+26 SECTION LINE 2184+32 TOP OF BANK 2184+47 CL 66TH AVE NW 2184+59 ROAD RIGHT-OF-WAY 2184+78 DITCH 2184+91 TEST LEAD 2184+91 RESET LINE MARKER 2184+91 FENCE 2194+06 TRENCH BREAKER 2199+29 FENCE 2206+02 TRENCH BREAKER 2209+21 PROPERTY LINE 2212+00 FENCE 2215+54 TRENCH BREAKER 2218+57 TRENCH BREAKER 2224+15 TRENCH BREAKER 2227+57 TRENCH BREAKER 2230+76 TRENCH BREAKER 2231+19 TRENCH BREAKER 2232+97 WETLAND BOUNDARY 2234+23 WETLAND BOUNDARY 2235+19 TRENCH BREAKER 2235+35 TEST LEAD 2235+35 PIPELINE MARKER 2235+37 FENCE 2236+87 TRENCH BREAKER 2238+17 TRENCH BREAKER 2239+05 P.L. < 10'15"00" LT. 2247+61 TRENCH BREAKER 2254+74 PROPERTY LINE 2255+09 TRENCH BREAKER 2258+68 TRENCH BREAKER 2260+19 TRENCH BREAKER 2262+06 TRENCH BREAKER 2263+20 FENCE 2265+67 P.L. < 7'00"00" RT. 2266+16 TRENCH BREAKER 2270+75 TRENCH BREAKER 2273+12 OH POWER LINE (5 WIRE) 2273+17 TRENCH BREAKER 2274+12 TRENCH BREAKER 2275+38 TRENCH BREAKER 2275+69 PROPERTY LINE 2275+69 FENCE 2276+29 TRENCH BREAKER 2279+30 TRENCH BREAKER

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	

LINE 87 16" LINE MATERIALS
ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED 2158+00 0.281" 410' 0.312" 161' 0.281" 121' 0.312" 63' 0.281" 137' 0.312" 16' 0.281" 2112' 0.312" ARO 100' 2183+75 2184+75 2184+91 2184+91 2212+87 226' 9 BAGS 2215+14 2231+76 7 BAGS 2234+42 2235+11 2236+11 2235+35 0.312" ARO 100' 2236+11 2280+00

FIELD BOOK		
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	



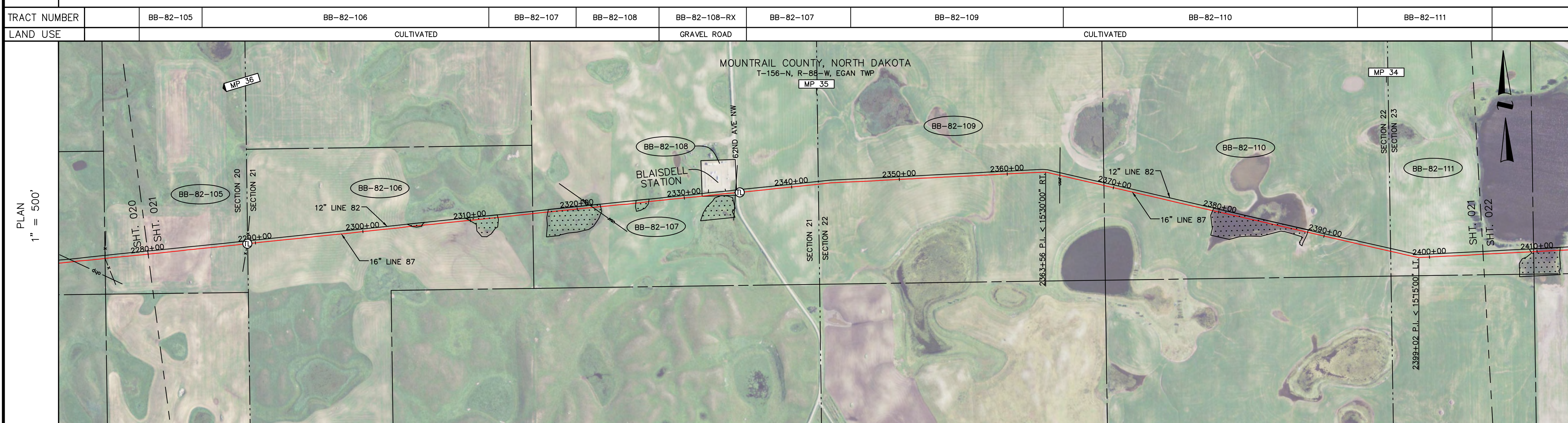
NO.		REVISION	
AS-BUILT	3-28-13		
SCALE	DATE	DRAWN	APPROVED
1"=500'	3-1-13	RVB	TRR

ENBRIDGE
BEAVER LODGE TO BERTHOLD

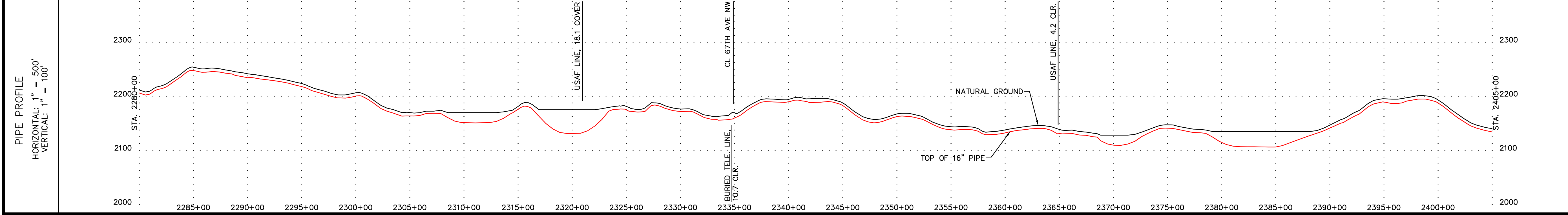
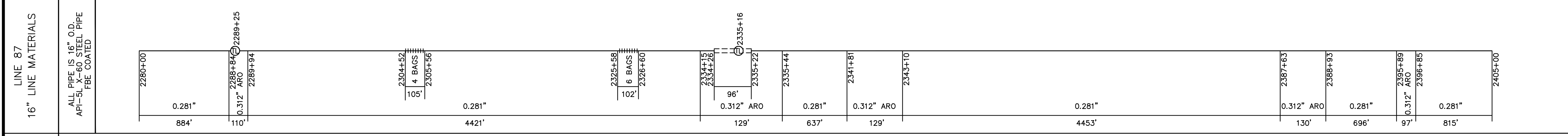
LINE 87
 MP 38.5 to MP 36.2
 LINE 87 STA. 2155+00 to STA. 2280+00
 MOUNTAIN COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10520-A-17	020

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE								
LINE XX CROSSING INFORMATION									
TRACT NUMBER	BB-82-105	BB-82-106	BB-82-107	BB-82-108	BB-82-108-RX	BB-82-107	BB-82-109	BB-82-110	BB-82-111
LAND USE		CULTIVATED			GRAVEL ROAD		CULTIVATED		



ENVIRONMENTAL	21156088-w4	21156088-w4	21156088-w3	21156088-w2	22156088-w1
LINE 87 CROSSING INFORMATION	2282+39 TRENCH BREAKER	2284+14 TRENCH BREAKER	2289+24 FENCE	2289+25 TEST LEAD	2289+25 PIPELINE MARKER
	2289+26 SECTION LINE	2292+73 TRENCH BREAKER	2295+20 TRENCH BREAKER	2297+78 TRENCH BREAKER	2300+71 TRENCH BREAKER
	2302+70 TRENCH BREAKER	2303+52 TRENCH BREAKER	2304+56 WETLAND BOUNDARY	2305+52 WETLAND BOUNDARY	2309+94 WETLAND BOUNDARY
	2312+57 WETLAND BOUNDARY	2314+98 TRENCH BREAKER	2315+83 PROPERTY LINE	2317+25 WETLAND BOUNDARY	2321+47 USAF LINE, 18.1 COVER
	2322+18 WETLAND BOUNDARY	2326+68 WETLAND BOUNDARY	2327+00 TRENCH BREAKER	2331+65 PROPERTY LINE	2331+93 TRENCH BREAKER
	2334+43 TOP OF BANK	2334+57 ROAD RIGHT-OF-WAY	2334+76 BURIED TELE. LINE, 10.7 CLR.	2334+88 PROPERTY LINE	2335+02 CL 67TH AVE NW
	2335+13 TOP OF BANK	2335+16 TEST LEAD	2335+25 ROAD RIGHT-OF-WAY	2335+54 TRENCH BREAKER	2337+52 TRENCH BREAKER
	2338+19 TRENCH BREAKER	2341+59 TRENCH BREAKER	2345+56 TRENCH BREAKER	2347+58 TRENCH BREAKER	2352+54 TRENCH BREAKER
	2354+53 TRENCH BREAKER	2359+44 TRENCH BREAKER	2362+01 TRENCH BREAKER	2363+56 P.I.L. < 15'300\" RT.	2364+91 USAF LINE, 4.2 CLR.
	2369+09 PROPERTY LINE	2374+34 TRENCH BREAKER	2376+63 TRENCH BREAKER	2379+43 WETLAND BOUNDARY	2388+44 WETLAND BOUNDARY
	2389+65 TRENCH BREAKER	2389+76 TRENCH BREAKER	2394+08 TRENCH BREAKER	2396+34 SECTION LINE	2399+02 P.I.L. < 15'1500\" LT.
	2400+61 TRENCH BREAKER	2402+60 TRENCH BREAKER	2404+65 TRENCH BREAKER		



XX INTERSTATE HIGHWAY	XXXX M.P. MARKER
X US HIGHWAY	XXXX AERIAL M.P. MARKER
XX STATE HIGHWAY	--- ROCK SHIELD
XX CO. STATE AID HIGHWAYS	SET ON WEIGHTS
XX COUNTY ROAD	/// CONCRETE COATING
□ REPAIR SLEEVE	--- CASING
R RECTIFIER	M MOTOR OPERATED VALVE
W WELD PLUS	R REMOTE OPERATED VALVE
TL TEST LEAD	X HAND OPERATED VALVE
X-XXX-X TRACT NUMBER	TEE
◆ PCR (AC MITIGATION) XX.XX	STOPPLE TEE

--- CIVIL TOWNSHIP LINE
--- FOREIGN PIPELINE
--- SECTION LINES
--- ROADS
--- PHONE LINE
--- BURIED POWER LINE
--- OVERHEAD POWER LINE
--- WATER LINE
--- GAS LINE
--- FIBER OPTIC CABLE LINE
--- SEWER
--- PROPERTY LINE
--- FENCE
--- RAILROADS
--- RIVERS, STREAMS, CREEKS, DITCHES
--- DRAIN TILE
--- CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L - CENTERLINE	MLV - MAINLINE VALVE	MKR - MARKER
R/W - RIGHT OF WAY	P.I. - POINT OF INTERSECTION	LT - LEFT TURN
RT - RIGHT TURN	MP - MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

A	AS-BUILT	3-28-13
NO.	REVISION	DATE
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		APPROVED
		TRR
SCALE IN FEET		
0 250 500 1000		

ENBRIDGE

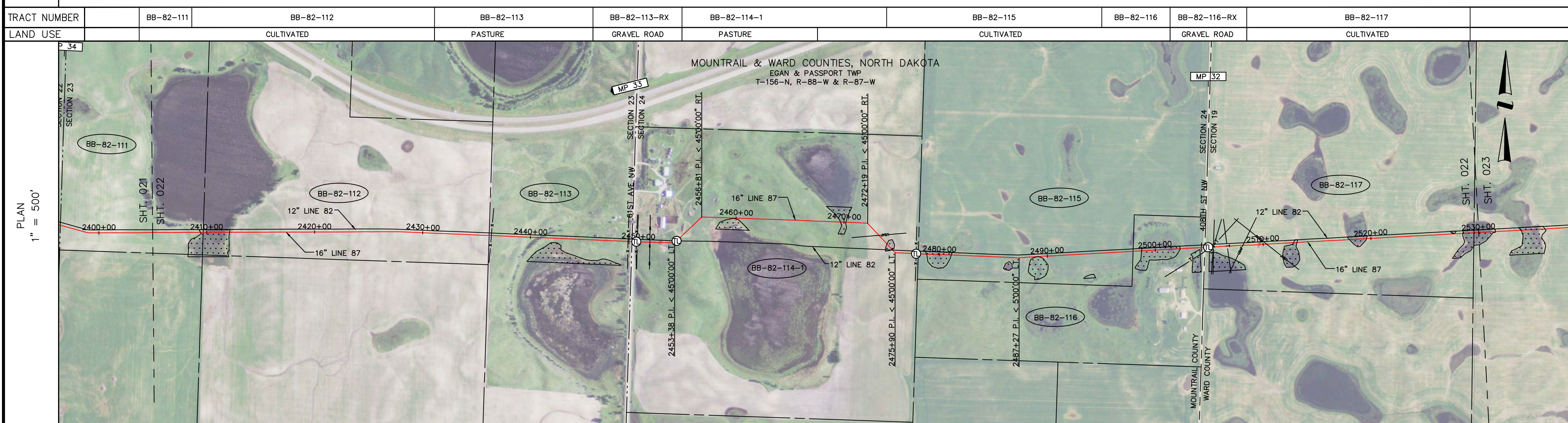
BEAVER LODGE TO BERTHOLD

LINE 87
MP 36.2 to MP 33.8
LINE 87 STA. 2280+00 to STA. 2405+00
MOUNTRAIL COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10521-A-17	021

LINE XX CROSSING INFORMATION	LINE XX XX" LINE MATERIALS	LINE XX XX" LINE MATERIALS
TRACT NUMBER	BB-82-111	BB-82-112
LAND USE	CULTIVATED	PASTURE

LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE



	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

NOTES

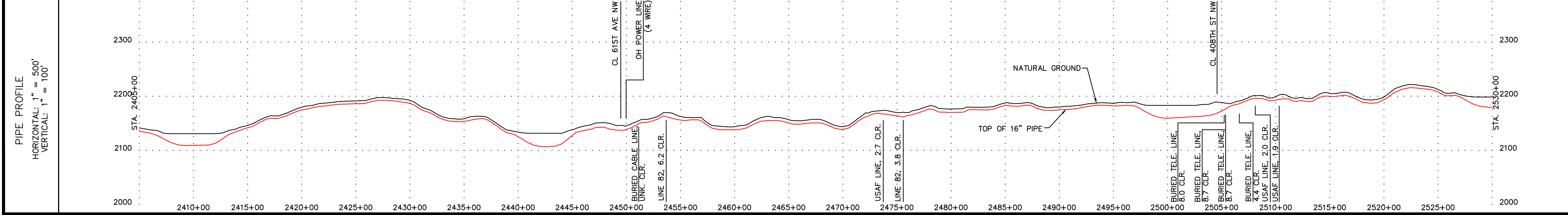
IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ENVIRONMENTAL	23156088-w2	24156088-w8	24156088-w7	24156088-w6	24156088-w4	24156088-w2	19156087-w7	19156087-w6	19156087-w4
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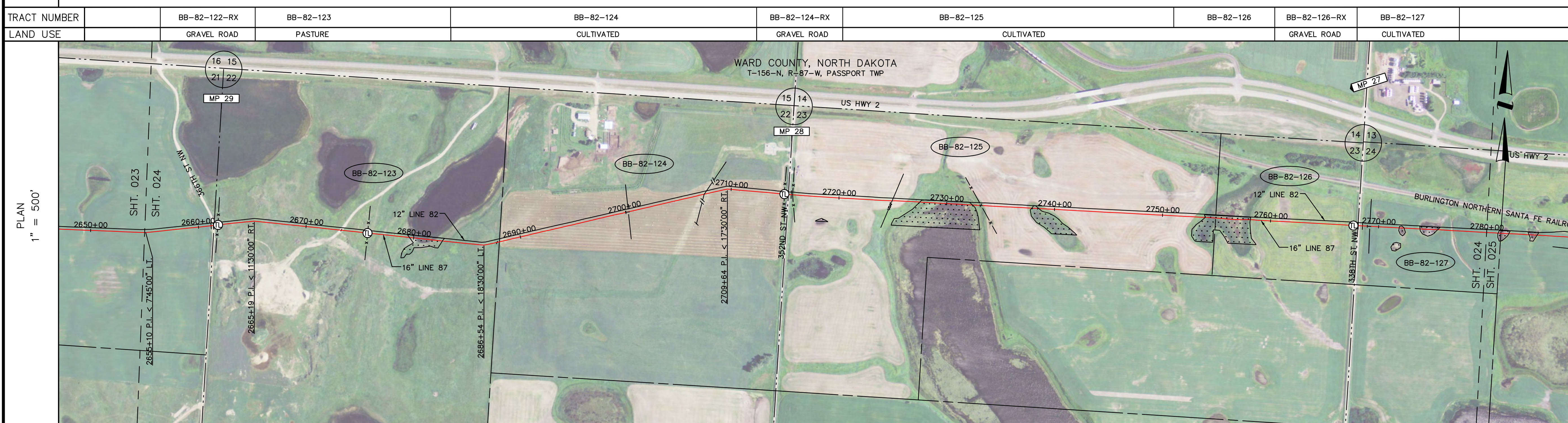
ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
L.T.	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

LINE 87 CROSSING INFORMATION	LINE 87 16" LINE MATERIALS
2406+34 TRENCH BREAKER	ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED
2409+44 WETLAND BOUNDARY	
2409+68 PROPERTY LINE	
2412+12 WETLAND BOUNDARY	
2414+24 TRENCH BREAKER	
2416+20 TRENCH BREAKER	
2418+19 TRENCH BREAKER	
2420+67 TRENCH BREAKER	
2423+17 TRENCH BREAKER	
2430+75 TRENCH BREAKER	
2432+68 TRENCH BREAKER	
2436+16 PROPERTY LINE	
2436+39 FENCE	
2437+70 TRENCH BREAKER	
2448+68 ROAD RIGHT-OF-WAY	
2448+05 FENCE	
2448+10 DITCH	
2448+29 TOP OF BANK	
2448+41 CL 61ST AVE NW	
2448+57 TOP OF BANK	
2448+74 DITCH	
2448+82 TEST LEAD	
2448+85 TOP OF BANK	
2448+85 TOP OF BANK	
2448+90 OH POWER LINE (4 WIRE)	
2448+90 OH POWER LINE (4 WIRE)	
2450+75 TRENCH BREAKER	
2451+08 BURIED CABLE LINE, UNK. CTR.	
2453+38 P.I. < 4500'00" LT	
2453+62 12" ENBRIDGE LINE 82, 6.2' CLR.	
2453+62 PIPELINE MARKER	
2454+00 TRENCH BREAKER	
2454+93 TRENCH BREAKER	
2458+12 12 BAGS	
2459+37 TRENCH BREAKER	
2461+34 TRENCH BREAKER	
2463+40 TRENCH BREAKER	
2469+66 WETLAND BOUNDARY	
2470+16 WETLAND BOUNDARY	
2471+26 TRENCH BREAKER	
2472+19 P.I. < 4500'00" RT	
2473+72 USAF LINE, 2.7' CLR.	
2474+80 WETLAND BOUNDARY	
2475+50 WETLAND BOUNDARY	
2475+57 3.8' CLR.	
2475+80 P.I. < 4500'00" LT	
2477+84 TEST LEAD	
2477+84 PIPELINE MARKER	
2477+85 FENCE	
2478+85 PROPERTY LINE	
2478+85 WETLAND BOUNDARY	
2481+11 WETLAND BOUNDARY	
2487+27 P.I. < 500'00" LT	
2489+11 WETLAND BOUNDARY	
2489+18 WETLAND BOUNDARY	
2489+75 PROPERTY LINE	
2489+75 WETLAND BOUNDARY	
2502+30 WETLAND BOUNDARY	
2504+14 TOP OF BANK	
2504+26 DITCH	
2504+59 CL 408TH ST NW	
2504+59 SECTION LINE	
2504+59 PIPELINE MARKER	
2504+90 TOP OF BANK	
2505+02 TOP OF BANK	
2505+26 BURIED TELE. LINE, 8.0' CLR.	
2505+39 BURIED TELE. LINE, 8.7' CLR.	
2505+48 BURIED TELE. LINE, 1.9' CLR.	
2508+12 USAF LINE, 2.0' CLR.	
2510+33 USAF LINE, 1.9' CLR.	
2513+14 WETLAND BOUNDARY	
2513+48 TRENCH BREAKER	
2517+95 TRENCH BREAKER	
2518+46 TRENCH BREAKER	
2519+58 WETLAND BOUNDARY	
2519+65 TRENCH BREAKER	
2521+12 TRENCH BREAKER	
2526+53 TRENCH BREAKER	
2528+54 WETLAND BOUNDARY	
2529+56 PROPERTY LINE	



NO.	REVISION		DATE	APPR.
1	AS-BUILT		3-28-13	
SCALE	DATE	DRAWN	APPROVED	APPROVED
1"=500'	3-1-13	RVB	TRR	
BEAVER LODGE TO BERTHOLD				
LINE 87 MP 33.8 to MP 31.6 LINE 87 STA. 2405+00 to STA. 2530+00 MOUNTRAIL & WARD COUNTIES, NORTH DAKOTA				
DRAWING NUMBER				ROUTE SHEET
D-87-5.92-10522-A-18				022

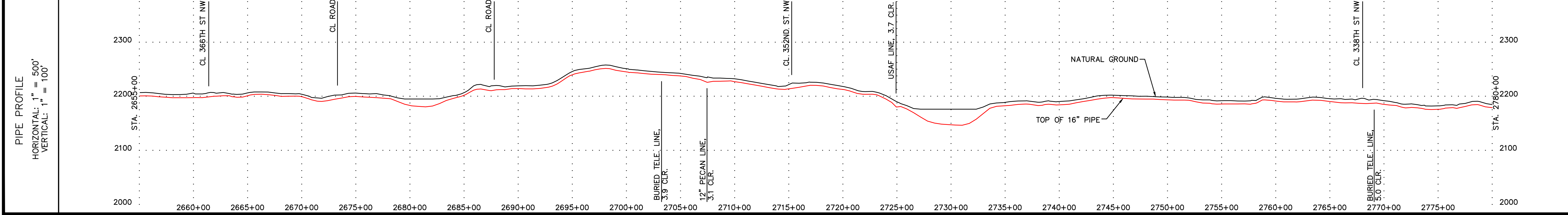
LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE							
LINE XX CROSSING INFORMATION								
TRACT NUMBER	BB-82-122-RX	BB-82-123	BB-82-124	BB-82-124-RX	BB-82-125	BB-82-126	BB-82-126-RX	BB-82-127
LAND USE	GRAVEL ROAD	PASTURE	CULTIVATED	GRAVEL ROAD	CULTIVATED	GRAVEL ROAD	CULTIVATED	



ENVIRONMENTAL	22156087-w1	23156087-w3	23156087-w2	23156087-w1	24156087-w10	24156087-w9
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LINE 87 CROSSING INFORMATION	2655±10 P.I. < 745'00" L.I. 2661±06 TOP OF BANK 2661±18 ROAD RIGHT-OF-WAY 2661±27 TOP OF BANK 2661±45 SECTION LINE NW 2661±45 SECTION LINE SW 2661±51 TOP OF BANK 2661±65 DITCH 2661±82 PIPELINE MARKER 2661±82 FENCE 2661±82 TOP OF BANK 2661±85 ROAD RIGHT-OF-WAY 2665±19 P.I. < 1130'00" R.I. 2670±49 TRENCH BREAKER 2673±28 CL ROAD 2675±71 TEST LEAD 2675±71 PIPELINE MARKER 2675±72 FENCE 2679±62 WETLAND BOUNDARY 2682±67 WETLAND BOUNDARY 2684±68 TRENCH BREAKER 2686±54 P.I. < 1830'00" L.I. 2687±64 TOP OF BANK 2687±78 CL ROAD 2688±01 PROPERTY LINE 2692±51 TRENCH BREAKER 2694±47 TRENCH BREAKER 2696±55 TRENCH BREAKER 2700±26 BURIED TELE. LINE, 3.9 CLR. 2701±56 TRENCH BREAKER 2705±63 TRENCH BREAKER 2707±45 12" PECAN LINE, 3.1 CLR. 2709±64 P.I. < 1730'00" R.I. 2710±58 TRENCH BREAKER 2713±50 TRENCH BREAKER 2714±92 FENCE 2714±92 FENCE LEAD 2714±94 PIPELINE MARKER 2714±98 ROAD RIGHT-OF-WAY 2715±04 DITCH 2715±29 CL 352ND ST NW 2715±31 SECTION LINE 2715±42 TOP OF BANK 2715±64 ROAD RIGHT-OF-WAY 2715±70 FENCE 2715±74 TRENCH BREAKER 2715±74 TRENCH BREAKER 2724±93 USAF LINE, 3.7 CLR. 2725±17 TRENCH BREAKER 2727±51 WETLAND BOUNDARY 2732±39 WETLAND BOUNDARY 2733±20 TOP OF BANK 2737±87 2738±82 2753±56 TRENCH BREAKER 2753±94 WETLAND BOUNDARY 2754±91 PROPERTY LINE 2758±12 WETLAND BOUNDARY 2758±29 TRENCH BREAKER 2767±35 ROAD RIGHT-OF-WAY 2767±42 TOP OF BANK 2767±67 TEST LEAD 2767±77 PIPELINE MARKER 2767±77 DITCH 2767±98 TOP OF BANK 2768±10 SECTION LINE 2768±25 TOP OF BANK 2768±50 DITCH 2768±89 TOP OF BANK 2768±89 ROAD RIGHT-OF-WAY 2769±18 BURIED TELE. LINE, 5.0 CLR. 2771±62 TRENCH BREAKER 2771±91 WETLAND BOUNDARY 2772±35 WETLAND BOUNDARY 2773±83 WETLAND BOUNDARY 2775±48 WETLAND BOUNDARY 2776±83 TRENCH BREAKER
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LINE 87 16" LINE MATERIALS	ALL PIPE IS 16" O.D. API-5L X-60 STEEL PIPE FBE COATED	2655+00 0.281" 577' 2660+77 0.312" 129' 2662+06 0.281" 1094' 2673+00 0.312" 129' 2674+29 0.281" 520' 2679+49 0.312" 322' 2682+71 0.281" 3198' 2714+89 0.312" 129' 2715+98 0.281" 1382' 2729+80 0.312" 448' 2734+28 0.281" 3286' 2737+87 17 BAGS 416' 2738+82 0.312" 226' 2767+67 0.281" 1060' 2771+88 13 BAGS 2772+42 2773+84 12 BAGS 2775+21 2780+00
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LEGEND	
XX INTERSTATE HIGHWAY	XXXX M.P. MARKER
X US HIGHWAY	XXXX AERIAL M.P. MARKER
XX STATE HIGHWAY	--- ROCK SHIELD
XX CO. STATE AID HIGHWAYS	SET ON WEIGHTS
XX COUNTY ROAD	/// CONCRETE COATING
□ REPAIR SLEEVE	▬ CASING
R RECTIFIER	M MOTOR OPERATED VALVE
W WELD PLUS	R REMOTE OPERATED VALVE
TL TEST LEAD	X HAND OPERATED VALVE
X-XXX-X TRACT NUMBER	T TEE
◆ PCR (AC MITIGATION) XX.XX	○ STOPPLE TEE

---	CIVIL TOWNSHIP LINE
---	FOREIGN PIPELINE
---	SECTION LINES
---	ROADS
T T T T	PHONE LINE
P P P P	BURIED POWER LINE
ohp ohp	OVERHEAD POWER LINE
W W W W	WATER LINE
G G G G	GAS LINE
FO FO FO	FIBER OPTIC CABLE LINE
S S S S	SEWER
---	PROPERTY LINE
x x x x	FENCE
---	RAILROADS
o o o o	RIVERS, STREAMS, CREEKS, DITCHES
---	DRAIN TILE
---	CULVERTS

NOTES

IN THIS DRAWING, THE PLACEMENT OF PIPELINES, FACILITIES, APPURTENANCES, EASEMENTS, OR OTHER RELEVANT PHYSICAL FEATURES OF THE PIPELINE SYSTEM IS BASED ON THE BEST AVAILABLE SOURCES AT TIME OF PREPARATION. IT IS PROVIDED FOR INFORMATION ONLY. FIELD VERIFICATION IS REQUIRED TO DETERMINE THE ACCURACY OF THIS PLACEMENT.

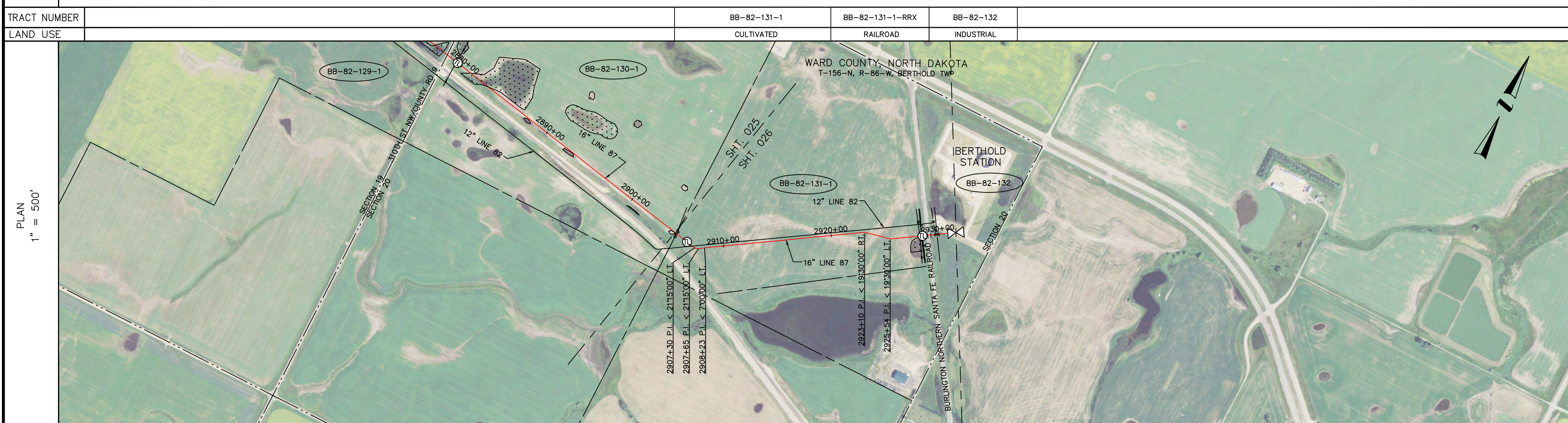
ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS	24156087-w7
C/L - CENTERLINE	
MLV - MAINLINE VALVE	
MKR - MARKER	
R/W - RIGHT OF WAY	
P.I. - POINT OF INTERSECTION	
L.I. - LEFT TURN	
R.T. - RIGHT TURN	
MP - MILEPOST	

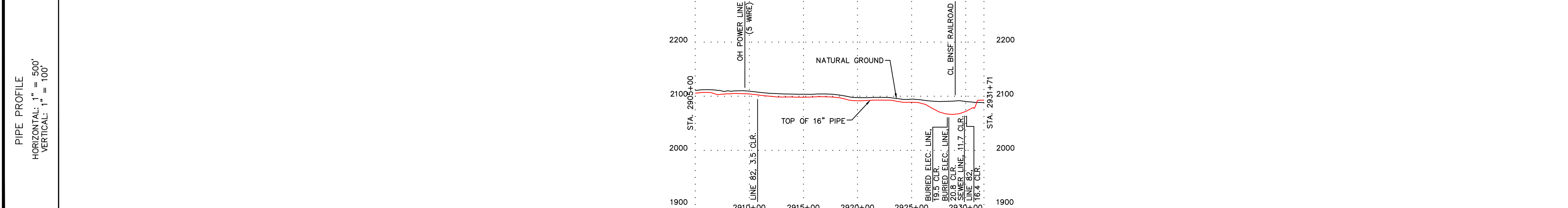
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

A	AS-BUILT	3-28-13
NO.	REVISION	DATE APPR.
SCALE	DATE	DRAWN
1"=500'	3-1-13	RVB
		TRR
BEAVER LODGE TO BERTHOLD		
LINE 87 MP 29.1 to MP 26.8 LINE 87 STA. 2655+00 to STA. 2780+00 WARD COUNTY, NORTH DAKOTA		
DRAWING NUMBER		ROUTE SHEET
D-87-5.92-10524-A-18		024

LINE XX XX" LINE MATERIALS	ALL PIPE IS XX" O.D. API XXXX STEEL PIPE COATING TYPE
LINE XX CROSSING INFORMATION	
TRACT NUMBER	BB-82-131-1 BB-82-131-1-RRX BB-82-132
LAND USE	CULTIVATED RAILROAD INDUSTRIAL



ENVIRONMENTAL	
LINE 87 CROSSING INFORMATION	<p>2905+18 OH POWER LINE (5 WIRE)</p> <p>2905+19 PROPERTY LINE</p> <p>2906+40 TEST LEAD</p> <p>2907+03 12" ENBRIDGE LINE 82, 3.5 CLR.</p> <p>2907+30 P.I.L. < 2115'00" LT.</p> <p>2907+65 P.I.L. < 2115'00" LT.</p> <p>2908+23 P.I.L. < 700'00" LT.</p> <p>2923+10 P.I.L. < 19'30'00" RT.</p> <p>2925+54 P.I.L. < 19'30'00" LT.</p> <p>2928+31 BURIED ELEC. LINE, 19.5 CLR.</p> <p>2928+40 BURIED ELEC. LINE, 20.8 CLR.</p> <p>2928+54 FENCE</p> <p>2928+54 TEST LEAD</p> <p>2928+54 PIPELINE MARKER</p> <p>2929+04 CL BNSF RAILROAD</p> <p>2929+31 DITCH</p> <p>2929+79 FENCE</p> <p>2930+09 LINE 82, 16.4 CLR.</p> <p>2931+73 MAINLINE VALVE</p>



LEGEND	
	INTERSTATE HIGHWAY
	US HIGHWAY
	STATE HIGHWAY
	CO. STATE AID HIGHWAYS
	COUNTY ROAD
	REPAIR SLEEVE
	RECTIFIER
	WELD PLUS
	TEST LEAD
	TRACT NUMBER
	PCR (AC MITIGATION)
	M.P. MARKER
	AERIAL M.P. MARKER
	ROCK SHIELD
	SET ON WEIGHTS
	CONCRETE COATING
	CASING
	MOTOR OPERATED VALVE
	REMOTE OPERATED VALVE
	HAND OPERATED VALVE
	TEE
	STOPPLE TEE
	CIVIL TOWNSHIP LINE
	FOREIGN PIPELINE
	SECTION LINES
	ROADS
	PHONE LINE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	WATER LINE
	GAS LINE
	FIBER OPTIC CABLE LINE
	SEWER
	PROPERTY LINE
	FENCE
	RAILROADS
	RIVERS, STREAMS, CREEKS, DITCHES
	DRAIN TILE
	CULVERTS

NOTES

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ALL UTILITY CROSSING CLEARANCES ARE ABOVE ENBRIDGE LINE 87 UNLESS OTHERWISE NOTED.

ABBREVIATIONS		
C/L	- CENTERLINE	
MLV	- MAINLINE VALVE	
MKR	- MARKER	
R/W	- RIGHT OF WAY	
P.I.	- POINT OF INTERSECTION	
LT	- LEFT TURN	
RT	- RIGHT TURN	
MP	- MILEPOST	
FIELD BOOK	FIELD BOOK	FIELD BOOK
NO.	REFERENCE DRAWINGS	
110363-01R BASE	BASE DRAWING	

A	AS-BUILT	3-28-13
REVISION		
NO.	DATE	APPR.
SCALE	DATE	DRAWN
APPROVED	APPROVED	APPROVED

SCALE IN FEET

0 250 500 1000

ENBRIDGE

BEAVER LODGE TO BERTHOLD

LINE 87
MP 26.8 to MP 26.3
LINE 87 STA. 2905+00 to STA. 2931+73
WARD COUNTY, NORTH DAKOTA

DRAWING NUMBER	ROUTE SHEET
D-87-5.92-10526-A-18	026