RIGHT-OF-WAY
HORIZONTAL REPRESENTATION (2D)
TRACT NUMBER
OWNERSHIP/AGENCY

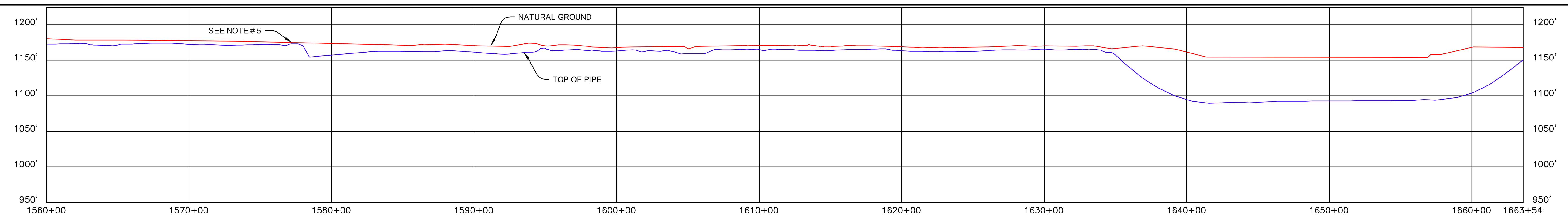
LENGTH
APPLICABLE DWG. NO.

Station	Tract
1560+00	ML-SD-YA-1001.0000
1563+90	ML-SD-YA-1002.0000 / ML-SD-YA-1002.0001
1564+98	
1575+96	ML-SD-YA-1002.0002
1576+49	ML-SD-YA-1003.1001
1577+99	RL-SD-YA-1003.1001 BURLINGTON NORTHERN RAILWAY; RD-SD-YA-1003.1001 STATE HIGHWAY 50
1583+11	ML-SD-YA-1004.0000
1587+60	ML-SD-YA-1005.0000
1589+10	ML-SD-YA-1006.0000
1591+19	ML-SD-YA-1007.0000
1593+18	ML-SD-YA-1008.0000
1597+34	ML-SD-YA-1009.0000
1604+65	RD-SD-YA-1009.0000
1605+48	ML-SD-YA-1010.0000
1608+54	ML-SD-YA-1011.0000
1612+49	RD-SD-YA-1012.0000; ML-SD-YA-1012.0000; ML-SD-YA-1012.0001
1613+45	
1616+17	ML-SD-YA-1013.0000
1630+15	ML-SD-YA-1014.0000
1641+35	MISSOURI RIVER
1656+85	ML-NE-CE-1015.0000
1663+54	

LAND USE

PIPELINE PROFILE

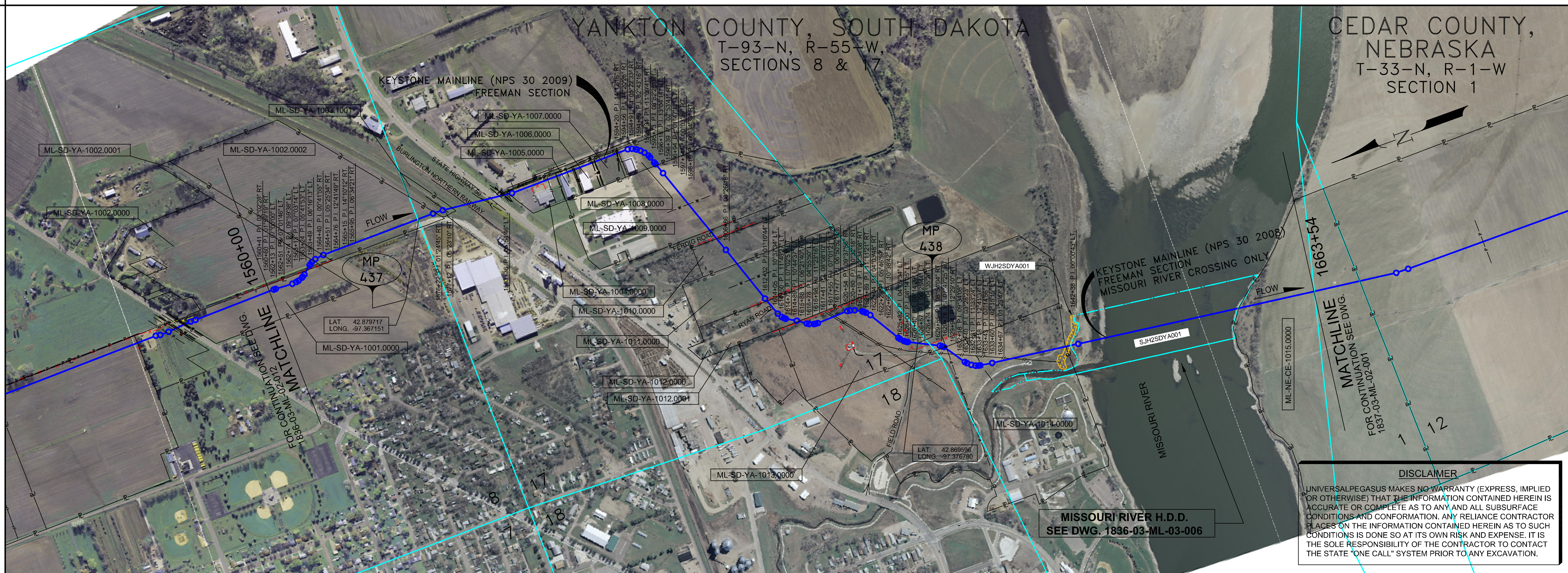
HORIZ: 1"=500' VER: 1"=100'
HORIZONTAL REPRESENTATION (2D)



PIPELINE PLAN (SCALE 1" = 500')HORIZONTAL REPRESENTATION (2D)

LEGEND

- KEYSTONE PIPELINE
- STATE BOUNDARY
- COUNTY/TOWNSHIP
- SECTIONS
- NATIONAL OR STATE RESERVATION BOUNDARY
- PROPERTY LINE
- FENCE
- EXCLUSIONARY FENCE
- POWER LINE
- TELEPHONE LINE
- BURIED CABLE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER / DRAIN
- FOREIGN PIPELINE
- RAILROAD
- HIGHWAY / ROAD
- STREAM / DITCH
- WETLAND
- INTERSTATE ROUTE
- U.S. ROUTE
- STATE ROUTE
- POINT OF INTERSECTION (PI)
- PIPELINE MILEPOST
- DIRECTION OF FLOW
- HOUSE
- BUILDING
- WATER WELL
- MAINLINE VALVE
- ML-XX-XX-0000.0000 TRACT NUMBER



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PIPELINE SCHEMATIC

- HEAVYWALL PIPE
- WELD FITTING
- TRANSITION PIECE
- CASING PIPE
- CONCRETE COATING
- SET-ON WEIGHTS
- PIPELINE WARNING SIGN
- PIPELINE MARKER
- MATERIAL ITEM
- GROUNDING MAT
- ZINC RIBBON
- AERIAL MARKER
- CATHODIC TEST STATION
- MAINLINE VALVE
- CHECK VALVE
- O.C. OPEN CUT
- BR. BORE
- D DRINKING WATER USA
- E ECOLOGICAL USA
- H HIGHLY POPULATED AREA
- K OPERATOR (KEYSTONE) DEFINED
- O OTHER POPULATED AREA
- S SOURCE WATER PROTECTION AREA
- W WELLHEAD PROTECTION AREA

STATION/DESCRIPTION — PIPELINE DATA

HORIZONTAL STATIONS (2D)

MATCHLINE 1560+00
1560+41 P.I. 02°02'28" RT.
1560+60 P.I. 01°59'19" RT.
1562+13 P.I. 07°00'00" LT.
1562+51 P.I. 07°01'46" LT.
1562+74 P.I. 09°59'38" LT.
1563+13 P.I. 07°03'14" LT.
1563+24 P.I. 05°41'53" LT.
1563+49 P.I. 06°16'13" LT.
1563+91 FENCE (BARBED WIRE)
1564+40 P.I. 00°41'55" RT.
1564+51 P.I. 05°25'34" RT.
1564+76 P.I. 12°41'49" RT.
1565+15 P.I. 14°10'12" RT.
1565+62 SANITARY SEWER
1565+95 P.I. 06°34'21" RT.
1576+22 P.I. 01°24'45" RT.
1577+11 P.I. 05°23'10" RT.
1577+29 4" MIDAMERICA PIPELINE COMPANY
1578+48 VENT
1579+21 TOP OF RAIL
1579+24 CL BURLINGTON NORTHERN RAILWAY
1579+27 TOP OF RAIL
1580+56 ROAD BAR DITCH
1580+60 SANITARY SEWER
1580+78 TELEPHONE LINE
1580+88 OVERHEAD POWERLINE
1581+00 EDGE OF ROAD
1581+40 CL STATE HIGHWAY 50
1581+81 EDGE OF ROAD
1581+83 EDGE OF ROAD
1582+01 CL ARCHERY LANE
1582+20 EDGE OF ROAD
1582+25 6" FOREIGN PIPELINE
1582+35 ROAD BAR DITCH
1582+41 WATER SUPPLY LINE
1582+43 3" FOREIGN PIPELINE
1582+46 TELEPHONE LINE
1582+52 TELEPHONE LINE
1582+55 UNDERGROUND POWERLINE
1582+58 UNDERGROUND POWERLINE
1582+59 OVERHEAD POWERLINE
1582+62 UNDERGROUND POWERLINE
1582+80 OVERHEAD POWERLINE
1582+97 VENT
1583+36 P.I. 06°54'46" LT.
1586+59 SANITARY SEWER
1586+70 6" MIDAMERICA PIPELINE COMPANY
1587+52 TELEPHONE LINE
1587+59 6" MIDAMERICA PIPELINE COMPANY
1587+74 WATER SUPPLY LINE
1588+50 UNDERGROUND POWERLINE
1589+13 SANITARY SEWER
1589+16 6" MIDAMERICA PIPELINE COMPANY
1589+20 6" MIDAMERICA PIPELINE COMPANY
1589+21 WATER SUPPLY LINE
1590+85 TELEPHONE LINE
1590+89 TELEPHONE LINE
1591+08 WATER SUPPLY LINE
1591+10 UNDERGROUND POWERLINE
1593+17 SANITARY SEWER
1593+18 WATER SUPPLY LINE
1593+31 UNDERGROUND POWERLINE
1593+37 1.5" FOREIGN PIPELINE
1594+20 P.I. 14°12'16" RT.
1594+56 P.I. 14°20'26" RT.
1594+91 P.I. 05°22'33" RT.
1594+99 P.I. 02°43'16" RT.
1595+34 P.I. 11°09'41" RT.
1595+73 P.I. 08°52'28" RT.
1596+18 P.I. 13°04'14" RT.
1596+39 P.I. 02°53'41" RT.
1596+94 P.I. 01°47'12" LT.
1597+14 P.I. 00°03'39" RT.
1598+16 P.I. 00°34'33" RT.
1601+69 WATER SUPPLY LINE
1604+65 FENCE (BARBED WIRE)
1605+48 FENCE (BARBED WIRE)
1606+85 P.I. 00°26'18" RT.
1610+22 WATER SUPPLY LINE
1612+49 FENCE (BARBED WIRE)
1612+32 P.I. 01°10'44" LT.
1613+19 ROAD BAR DITCH
1613+36 EDGE OF ROAD
1613+45 CL RYAN ROAD
1613+54 EDGE OF ROAD
1613+61 ROAD BAR DITCH
1614+05 P.I. 10°37'34" LT.
1614+50 P.I. 11°48'27" LT.
1614+72 P.I. 07°02'51" LT.
1614+89 P.I. 10°44'37" LT.
1615+88 P.I. 06°21'40" RT.
1616+17 FENCE (BARBED WIRE)
1616+78 P.I. 04°55'50" LT.
1616+98 P.I. 11°23'16" LT.
1617+41 P.I. 08°08'10" LT.
1617+55 P.I. 07°01'21" LT.
1617+77 P.I. 06°50'52" LT.
1619+18 6" FOREIGN PIPELINE
1619+35 8" FOREIGN PIPELINE
1620+54 P.I. 09°37'56" RT.
1620+80 P.I. 10°32'18" RT.
1621+19 P.I. 09°33'21" RT.
1621+89 P.I. 11°11'21" RT.
1622+04 P.I. 04°03'48" RT.
1622+23 P.I. 05°46'59" RT.
1622+66 P.I. 10°38'42" RT.
1625+82 P.I. 04°09'34" LT.
1626+00 P.I. 08°14'05" LT.
1626+40 P.I. 09°14'29" LT.
1626+57 P.I. 06°25'44" LT.
1626+74 P.I. 04°35'26" LT.
1626+89 FENCE (BARBED WIRE)
1627+99 CL FIELD ROAD
1628+36 UNDERGROUND POWERLINE
1628+64 FENCE (BARBED WIRE)
1629+55 P.I. 08°54'04" RT.
1629+78 P.I. 07°47'25" RT.
1629+94 P.I. 12°29'10" RT.
1630+15 UNDERGROUND
1631+03 8" FOREIGN PIPELINE
1632+18 P.I. 09°34'08" LT.
1632+40 P.I. 03°28'23" LT.
1632+81 P.I. 11°33'24" LT.
1633+18 P.I. 12°41'37" LT.
1633+43 P.I. 07°14'56" LT.
1633+60 P.I. 02°15'15" LT.
1634+46 HDD ENTRY WELD TIE-IN
1634+67 P.I. 01°23'47" LT.
1636+39 FOREIGN PIPELINE
1641+49 WATER EDGE
1642+38 P.I. 00°00'43" LT.
1648+30 CL MISSOURI RIVER
1656+78 WATER EDGE
MATCHLINE 1663+54

SLOPE STATIONS (3D)

MATCHLINE 1561+94
1562+35 P.I. 02°02'28" RT.
1562+54 P.I. 01°59'19" RT.
1564+06 P.I. 07°00'00" LT.
1564+44 P.I. 07°01'46" LT.
1564+67 P.I. 09°59'38" LT.
1565+07 P.I. 07°03'14" LT.
1565+18 P.I. 05°41'53" LT.
1565+42 P.I. 06°16'13" LT.
1565+85 FENCE (BARBED WIRE)
1566+34 P.I. 00°41'55" RT.
1566+45 P.I. 05°25'34" RT.
1566+70 P.I. 12°41'49" RT.
1567+09 P.I. 14°10'12" RT.
1567+56 SANITARY SEWER 3.0' CVR. 1.0' CLR. (ABOVE)
1567+89 P.I. 06°34'21" RT.
1578+16 P.I. 01°24'45" RT.
1576+84 M.P. 437
1579+06 P.I. 05°23'10" RT.
1579+24 4" MIDAMERICA PIPELINE COMPANY 7.2' CVR. 4.2' CLR. (ABOVE)
1579+88 OVERBEND 22.5°
1580+46 VENT
1581+18 TOP OF RAIL
1581+21 CL BURLINGTON NORTHERN RAILWAY
1581+24 TOP OF RAIL
1582+54 ROAD BAR DITCH, 15.0' CVR.
1582+58 SANITARY SEWER 15.0' CVR. 9.0' CLR. (ABOVE)
1582+76 TELEPHONE LINE 16.0' CVR. 14.0' CLR. (ABOVE)
1582+86 OVERHEAD POWERLINE, HT. = 15'
1582+98 EDGE OF ROAD
1583+37 CL STATE HIGHWAY 50
1583+79 EDGE OF ROAD
1583+81 EDGE OF ROAD
1583+99 CL ARCHERY LANE
1584+18 EDGE OF ROAD
1584+23 6" FOREIGN PIPELINE 13.0' CVR. 4.0' CLR. (ABOVE)
1584+33 ROAD BAR DITCH, 12.0' CVR.
1584+39 WATER SUPPLY LINE 11.0' CVR. 5.0' CLR. (ABOVE)
1584+41 3" FOREIGN PIPELINE 11.0' CVR. 5.0' CLR. (ABOVE)
1584+44 TELEPHONE LINE 10.0' CVR. 6.0' CLR. (ABOVE)
1584+50 TELEPHONE LINE 10.0' CVR. 6.5' CLR. (ABOVE)
1584+53 UNDERGROUND POWERLINE 10.0' CVR. 6.4' CLR. (ABOVE)
1584+56 UNDERGROUND POWERLINE 10.0' CVR. 6.0' CLR. (ABOVE)
1584+57 OVERHEAD POWERLINE, HT. = 30'
1584+60 UNDERGROUND POWERLINE 10.0' CVR. 6.0' CLR. (ABOVE)
1584+78 OVERHEAD POWERLINE, HT. = UNK.
1584+95 VENT
1585+34 P.I. 06°54'46" LT.
1588+58 SANITARY SEWER 7.8' CVR. 1.3' CLR. (ABOVE)
1588+69 6" MIDAMERICA PIPELINE COMPANY 8.2' CVR. 6.5' CLR. (ABOVE)
1589+50 TELEPHONE LINE 7.1' CVR. 5.1' CLR. (ABOVE)
1589+57 6" MIDAMERICA PIPELINE COMPANY 7.2' CVR. 6.9' CLR. (ABOVE)
1589+72 WATER SUPPLY LINE 7.8' CVR. 4.7' CLR. (ABOVE)
1590+49 UNDERGROUND POWERLINE 7.4' CVR. 2.4' CLR. (ABOVE)
1591+11 SANITARY SEWER 6.8' CVR. 3.1' CLR. (ABOVE)
1591+15 6" MIDAMERICA PIPELINE COMPANY 6.8' CVR. 4.9' CLR. (ABOVE)
1591+18 6" MIDAMERICA PIPELINE COMPANY 6.9' CVR. 4.6' CLR. (ABOVE)
1591+19 WATER SUPPLY LINE 7.9' CVR. 2.8' CLR. (ABOVE)
1592+84 TELEPHONE LINE 10.4' CVR. 5.0' CLR. (ABOVE)
1592+88 TELEPHONE LINE 10.4' CVR. 5.0' CLR. (ABOVE)
1593+06 WATER SUPPLY LINE 9.8' CVR. 2.0' CLR. (ABOVE)
1593+08 UNDERGROUND POWERLINE 9.0' CVR. 6.0' CLR. (ABOVE)
1595+15 SANITARY SEWER 11.1' CVR. 8.0' CLR. (ABOVE)
1595+16 WATER SUPPLY LINE 11.1' CVR. 4.0' CLR. (ABOVE)
1595+29 UNDERGROUND POWERLINE 11.1' CVR. 1.5' CLR. (ABOVE)
1595+35 1.5" FOREIGN PIPELINE 11.5' CVR. 9.5' CLR. (ABOVE)
1596+19 P.I. 14°12'16" RT.
1596+56 P.I. 14°20'26" RT.
1596+90 P.I. 05°22'33" RT.
1596+99 P.I. 02°43'16" RT.
1597+33 P.I. 11°09'41" RT.
1597+73 P.I. 08°52'28" RT.
1598+17 P.I. 13°04'14" RT.
1598+38 P.I. 02°53'41" RT.
1598+94 P.I. 01°47'12" LT.
1599+13 P.I. 00°03'39" RT.
1600+16 P.I. 00°34'33" RT.
1603+70 WATER SUPPLY LINE 6.5' CVR. CLR. UNK.
1606+66 FENCE (BARBED WIRE)
1607+49 FENCE (BARBED WIRE)
1608+86 P.I. 00°26'18" RT.
1612+23 WATER SUPPLY LINE 8.0' CVR. 4.0' CLR. (ABOVE)
1614+34 P.I. 01°10'44" LT.
1614+50 FENCE (BARBED WIRE)
1615+21 ROAD BAR DITCH, 6.0' CVR.
1615+37 EDGE OF ROAD
1615+46 CL RYAN ROAD
1615+55 EDGE OF ROAD
1615+63 ROAD BAR DITCH, 7.9' CVR.
1616+06 P.I. 10°37'34" LT.
1616+52 P.I. 11°48'27" LT.
1616+74 P.I. 07°02'51" LT.
1616+91 P.I. 10°44'37" LT.
1617+89 P.I. 06°21'40" RT.
1618+19 FENCE (BARBED WIRE)
1618+80 P.I. 04°55'50" LT.
1619+00 P.I. 11°23'16" LT.
1619+44 P.I. 08°08'10" LT.
1619+57 P.I. 07°01'21" LT.
1619+79 P.I. 06°50'52" LT.
1621+20 6" FOREIGN PIPELINE 5.5' CVR. 3.0' CLR. (ABOVE)
1621+38 8" FOREIGN PIPELINE 5.6' CVR. 3.0' CLR. (ABOVE)
1622+57 P.I. 09°37'56" RT.
1622+82 P.I. 10°32'18" RT.
1623+22 P.I. 09°33'21" RT.
1623+92 P.I. 11°11'21" RT.
1624+07 P.I. 04°03'48" RT.
1624+26 P.I. 05°46'59" RT.
1624+69 P.I. 10°38'42" RT.
1627+85 P.I. 04°09'34" LT.
1628+03 P.I. 08°14'05" LT.
1628+43 P.I. 09°14'29" LT.
1628+60 P.I. 06°25'44" LT.
1628+76 P.I. 04°35'26" LT.
1628+92 FENCE (BARBED WIRE)
1629+64 M.P. 438
1630+02 CL FIELD ROAD
1630+39 UNDERGROUND POWERLINE 6.0' CVR. 3.0' CLR. (ABOVE)
1630+67 FENCE (BARBED WIRE)
1631+58 P.I. 08°54'04" RT.
1631+81 P.I. 07°47'25" RT.
1631+97 P.I. 12°29'10" RT.
1632+19 UNDERGROUND POWERLINE 6.0' CVR. 3.0' CLR. (ABOVE)
1633+07 8" FOREIGN PIPELINE 5.6' CVR. 0.2' CLR. (ABOVE)
1634+21 P.I. 09°34'08" LT.
1634+43 P.I. 03°28'23" LT.
1634+84 P.I. 11°33'24" LT.
1635+21 P.I. 12°41'37" LT.
1635+47 P.I. 07°14'56" LT.
1635+63 P.I. 02°15'15" LT.
1636+49 HDD ENTRY WELD TIE-IN
1636+70 P.I. 01°23'47" LT.
1638+45 FOREIGN PIPELINE CVR. UNK. CLR. UNK.
1643+58 WATER EDGE
1644+46 P.I. 00°00'43" LT.
1650+38 CL MISSOURI RIVER
1658+87 WATER EDGE
MATCHLINE 1665+66

PIPE SLOPE REPRESENTATION (3D)

1561+94 — (6) 338' FBE — 1565+32 — (3) 120' FBE & ARO O.C. — 1566+52 — (6) 1,389' FBE — 1579+20 — 1579+88 (20) TYPE 'B' — 1580+41 — 1580+45 — (3) 477' FBE & ARO BR. 36" CASING 451' — 1584+96 — 1585+18 TYPE '4' — (6) 2,148' FBE; TEST STATION IS LOCATED AT STA. NO. 1585+18 — TYPE 'F2' 1606+66 — (3) 120' FBE & ARO O.C. — 1607+86 — (6) 723' FBE — 1615+09 — (3) 80' FBE & ARO O.C. — 1615+89 — 1618+19 TYPE 'F4' — (6) 2,060' FBE — 1630+67 TYPE 'F2' — 1636+49 — (3) 80' FBE & ARO O.C. — 1637+29 — (4) 2,837' FBE & ARO — 1665+66

CPS (3D)

TEST SECTIONS (3D): TEST SECTION 4B-2 ILTO-028-2010 — 1635+10 — TEST SECTION 4B-3 ILTO-028-2010

ENVIRONMENTAL MITIGATION/RECLAMATION STATIONS (2D)

TOPSOIL SALVAGE METHOD
STREAMS
WETLANDS
TIMING CONSTRAINTS
STATIONS
MONITORING
RECLAMATION
SPECIAL CONSIDERATIONS

GENERAL NOTES

1) ALL CHAINAGES ARE IN FEET UNLESS OTHERWISE SPECIFIED.
2) DATUM ELEVATION AND PROJECTION ARE BASED ON MEAN SEA LEVEL AND NAD 83.
3) FIELD PIPE LOCATING REQUIRED TO DETERMINE PLACEMENT OF PIPELINE WITHIN PERMANENT EASEMENT.
4) UNLESS OTHERWISE NOTED, 48 INCHES MINIMUM COVER EXCEPT 36 INCHES IN AREAS OF CONSOLIDATED ROCK.
5) NO ACTUAL AS-BUILT GROUND SHOTS WERE TAKEN AT THIS LOCATION. THE PROFILE REPRESENTS A PROJECTION FROM SHOTS TAKEN AT 150' TO 250' INTERVALS.
6) TWO TYPES OF COATING WERE APPLIED TO THE FIELD WELDS DURING THE ORIGINAL CONSTRUCTION. ONE TYPE WAS TWO COMPONENT LIQUID EPOXY, THE PRODUCTS USED WERE DENSO 7200 OR SPC SP-2888. THE OTHER TYPE THAT WAS APPLIED TO THE FIELD WELDS WAS FBE, THE PRODUCT NAME WAS 3M 6223 11G.
7) THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS AUGUST 17, 2009 FOR M.P. 403.90 TO 422.96 AND OCTOBER 28, 2009 FOR M.P. 422.96 TO 463.18.
8) ORIGINAL IN-SERVICE DATE OF THE KEYSTONE PIPELINE (PHASE 1): JUNE 30, 2010.
9) CPS CALCULATION DATE: MAY 2010.
10) ORION STATION SERIES NUMBER: 1182700.
11) TO DETERMINE THE MILE POST AT A GIVEN LOCATION, ADD THE 3D STATION NUMBER FROM THIS SEGMENT TO STATION NUMBER 21496+76 AND DIVIDE BY 5280.

OPERATING AND TEST PRESSURE

1. THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
2. THE MINIMUM TEST PRESSURE WAS 1801 PSIG.

BILL OF MATERIALS (3D)

ITEM NO.	DESCRIPTION	QUANTITY
3	30" O.D. X 0.516" W.T., API-5LX-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	877'
4	30" O.D. X 0.622" W.T., API-5LX-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	2,837'
6	30" O.D. X 0.429" W.T., API-5LX-70 W/FBE COATING	6,658'
20	30" - 22.5° 3 DIA RAD WELD FITTING 0.515" W.T., Y-70	1 EA
	PIPELINE MARKERS	0 EA
	PIPELINE WARNING SIGNS	8 EA
	CATHODIC TEST STATION	5 EA
	AERIAL MARKER	0 EA

REFERENCE DRAWINGS

REF. NO.	DRAWING NO.	REV. NO.	DRAWING TITLE
HDD	1836-03-ML-03-006	14	MISSOURI RIVER AT YANKTON HDD INSTALLATION

REVISIONS

NO.	DATE	REV. BY	CHCK. BY	APPRD. BY	ENV. APPRD	DESCRIPTION
1	5/12/08	UEI	RDG	LAG	SEC	ISSUED FOR CONSTRUCTION
2	10/12/16	UEI				ISSUED FOR AS-BUILT 1836-03-ML-02-013 REPLACES COVERAGE OF IFC DRAWINGS 1836-03-ML-02-020, 1836-03-ML-02-021

ENGINEERING RECORDS

	INITIAL	DATE		INITIAL	DATE
DRAWN BY	UEI	10/03/01	ENV. APPRD.		
CHECKED BY			APPRD. BY		
			COMPANY APPROVED		

PROFESSIONAL ENGINEER

NAME	STATE	LIC#	REV#	DATE
LOYS ALVIN GRAY, III	SD	CE9004		
LOYS A. GRAY, III	NE	E-11956		

SCALE: 0 125 250 500 Feet

TransCanada *In business to deliver*
UNIVERSAL ENSCO, INC.

KEYSTONE MAINLINE (NPS 30 2009) FREEMAN SECTION

FIA# 1836 | SPREAD 4B | DISCIPLINE 03

AS-BUILT ALIGNMENT

M.P. 436.72 TO M.P. 438.68
SHEET 13 OF 13 SHEETS
STA. 1561+94 TO STA. 1665+66 (3D)

DRAWING NO. 1836-03-ML-02-013 REV. 2