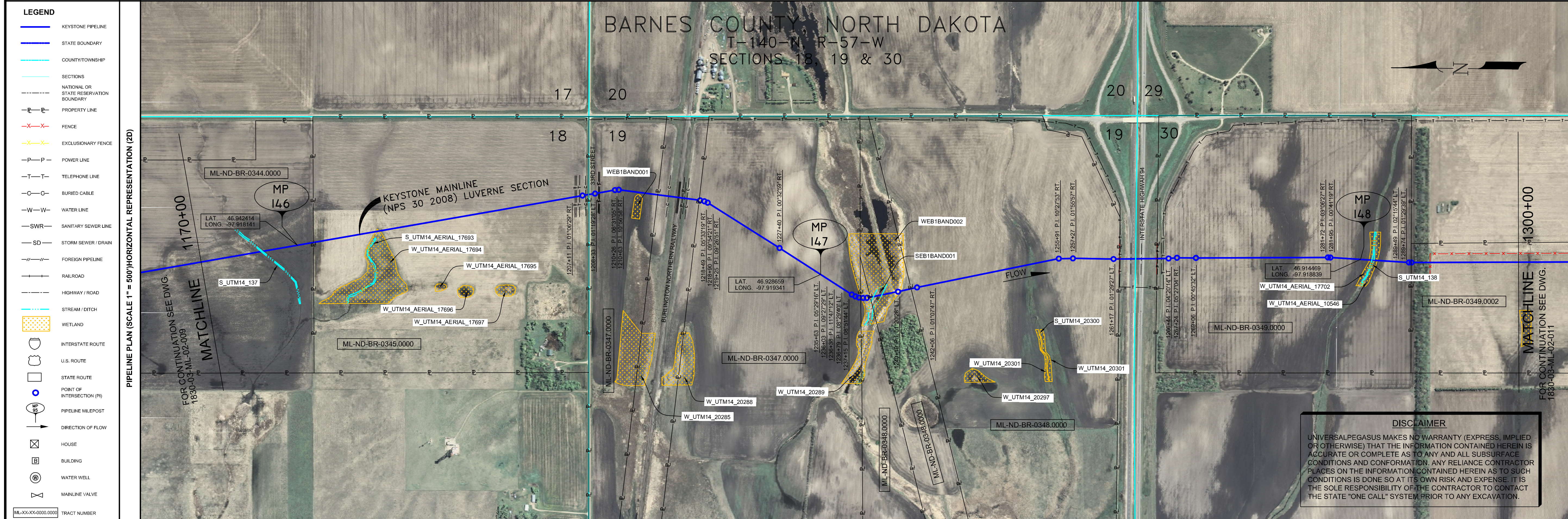


- GENERAL NOTES**
- 1) ALL CHAINAGES ARE IN FEET UNLESS OTHERWISE SPECIFIED.
  - 2) DATUM ELEVATION AND PROJECTION ARE BASED ON MEAN SEA LEVEL AND NAD 83.
  - 3) FIELD PIPE LOCATING REQUIRED TO DETERMINE PLACEMENT OF PIPELINE WITHIN PERMANENT EASEMENT.
  - 4) UNLESS OTHERWISE NOTED, 48 INCHES MINIMUM 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) THE TYPE OF COATING APPLIED TO THE FIELD WELDS DURING THE ORIGINAL CONSTRUCTION WAS TWO COMPONENT LIQUID EPOXY. THE COATING PRODUCTS USED WERE DENSOL 7200 OR SPC SP-2888.
  - 7) THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALPINE PIG RUN, WAS SEPTEMBER 23, 2009 FOR M.P. 114.00 TO M.P. 130.00, AUGUST 05, 2009 FOR M.P. 129.90 TO M.P. 168.72 AND AUGUST 07, 2009 M.P. 168.73 TO M.P. 195.68.
  - 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 6528+26 AND DIVIDE BY 5280.



- OPERATING AND TEST PRESSURE**
1. THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
  2. THE MINIMUM TEST PRESSURE WAS 900 PSIG.

**BILL OF MATERIALS (3D)**

ITEM NO.	DESCRIPTION	QUANTITY
1	30" O.D. X 0.438" W.T. API 5LX-70 WFBE COATING	2,537
2	30" O.D. X 0.386" W.T. API 5LX-70 WFBE COATING	9,674
3	30" O.D. X 0.516" W.T. API 5LX-70 WFBE COATING & ABRASION RESISTANT OVERCOAT	802
102	30" X 45" 3 DIA RAD WELD FITTING 0.438" W.T. Y-70	1 EA
102A	30" X 45" 3 DIA RAD WELD FITTING 0.438" W.T. Y-70	1 EA
	PIPELINE MARKERS	0 EA
	PIPELINE WARNING SIGNS	6 EA
	CATHODIC TEST STATION	4 EA
	AERIAL MARKER	0 EA

**REFERENCE DRAWINGS**

REF. NO.	DRAWING NO.	REV. NO.	DRAWING TITLE

**REVISIONS**

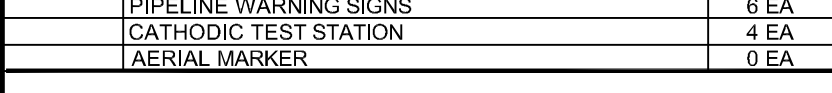
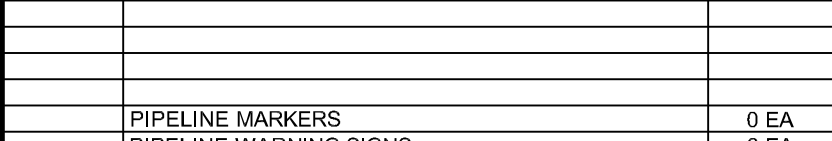
NO.	DATE	REV. BY	CHKD. BY	APPROV. BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	8/27/08	UEI	GTC	LAG	REVISED PIPE LENGTH ISSUED FOR AS-BUILT
3	10/17/08	UEI			REPLACES COVERAGE OF 1830-03-MI-02-010 ITC DRAWINGS
					1830-03-MI-02-015
					1830-03-MI-02-016
					1830-03-MI-02-017

**ENGINEERING RECORDS**

DRAWN BY	INITIAL	DATE	ENY. APPRD.	INITIAL	DATE
UEI		10/01/18			

**PROFESSIONAL ENGINEER**

NAME	STATE	LIC#	REV#	DATE
LOYS A. GRAY, III	ND	PE5714		



KEYSTONE MAINLINE (NPS 30 2008) LUVERNE SECTION

**AS-BUILT ALIGNMENT**

M.P. 145.82 TO M.P. 148.29

SHEET 10 OF 20 SHEETS

STA. 1171+16 TO STA. 1301+29 (3D)

DRAWING NO. 1830-03-MI-02-010 REV. 3

**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
- TRACT NUMBER

**PIPELINE SCHEMATIC**

**HORIZONTAL STATIONS (2D)**

**SLOPE STATIONS (3D)**

STATION	DESCRIPTION	STATION	DESCRIPTION
1207+49	TELEPHONE LINE	1207+49	TELEPHONE LINE
1207+47	TELEPHONE LINE	1207+47	TELEPHONE LINE
1207+46	TELEPHONE LINE	1207+46	TELEPHONE LINE
1207+44	TELEPHONE LINE	1207+44	TELEPHONE LINE
1207+41	FIBER OPTIC CABLE	1207+41	FIBER OPTIC CABLE
1207+40	TELEPHONE LINE	1207+40	TELEPHONE LINE
1207+38	TELEPHONE LINE	1207+38	TELEPHONE LINE
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1205+72			