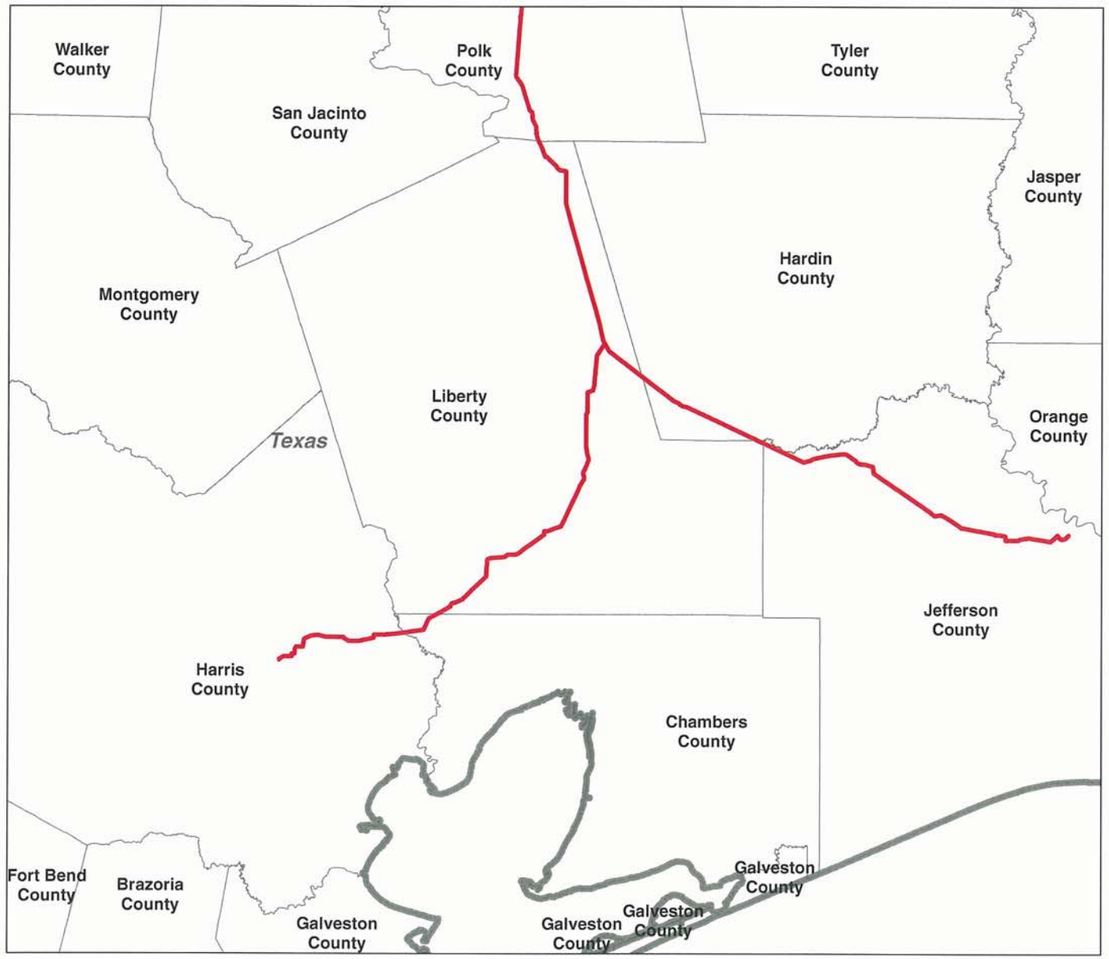

TransCanada Keystone Pipeline, L.P.
United States Department of State
Keystone XL Project
Appendix A
Pipeline Aerial Route Sheets

Houston Lateral

N
W E
S

TROW ENGINEERING CONSULTANTS, INC.
JULY 6, 2009
REVISION 1

3/18/09 Centerline

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida , USA 32308
Phone: 1-850-385-5441
Fax: 1-850-385-5523

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1	ISSUED FOR SUPPLEMENTAL U.S DEPT. OF STATE FILING (3.18.09 CL)	7.6.09
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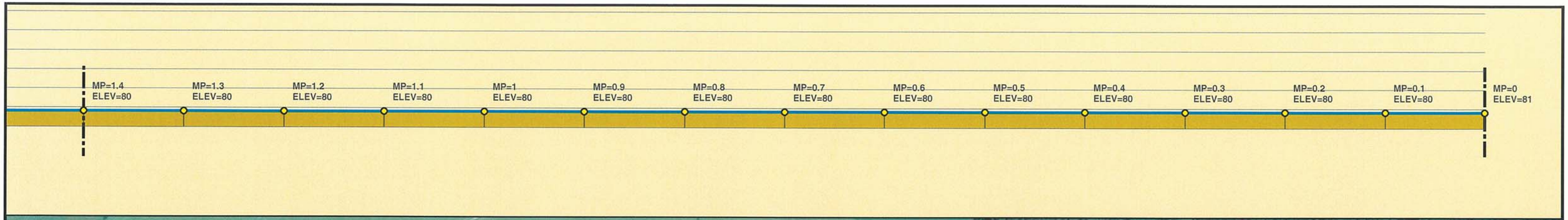
DRAWING NUMBER	DRAWN BY	CHECKED BY	APPROVED BY
XL-48-LA-2002-P-000	GS	SS	RG

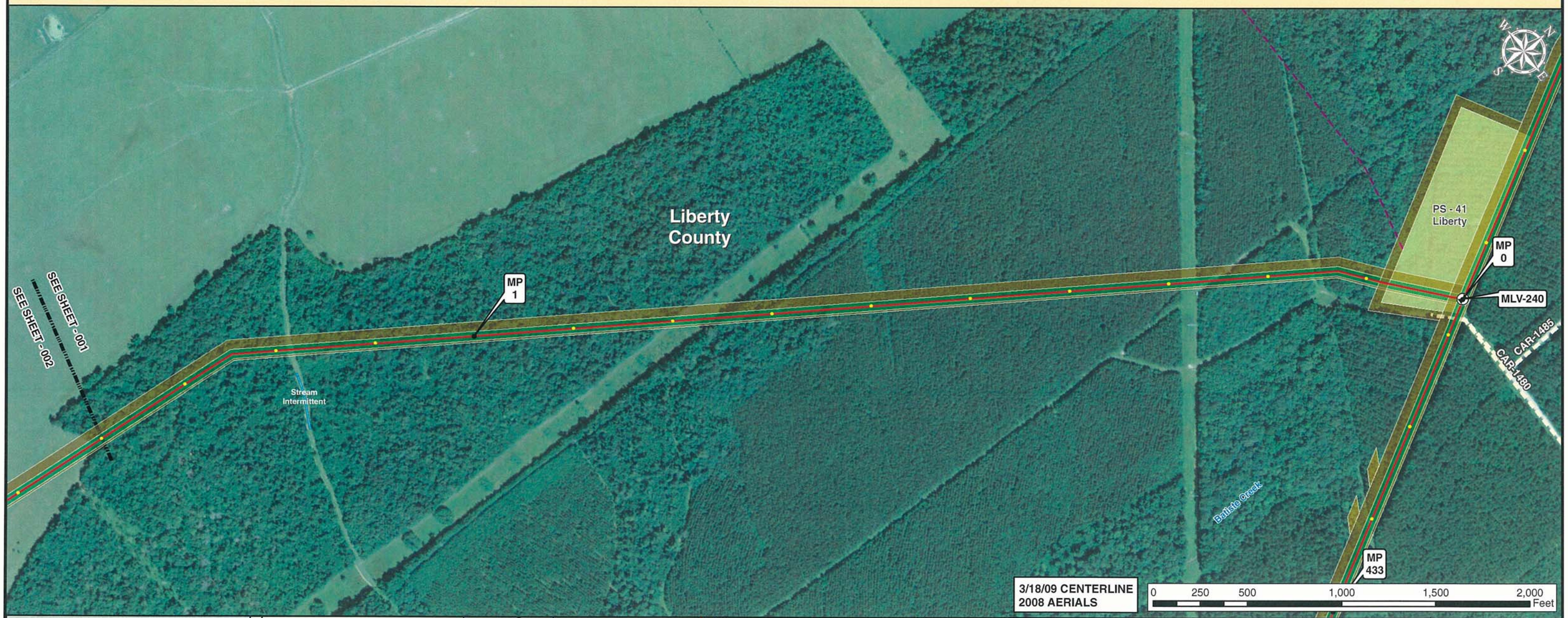
KEYSTONE XL PROJECT
ROUTE SHEETS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
NTS

PROJECT: 50388X

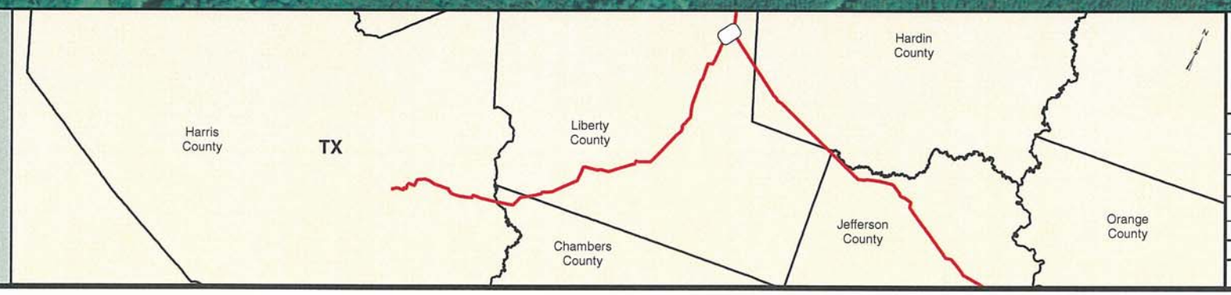
SHEET: **COVER SHEET**





Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE



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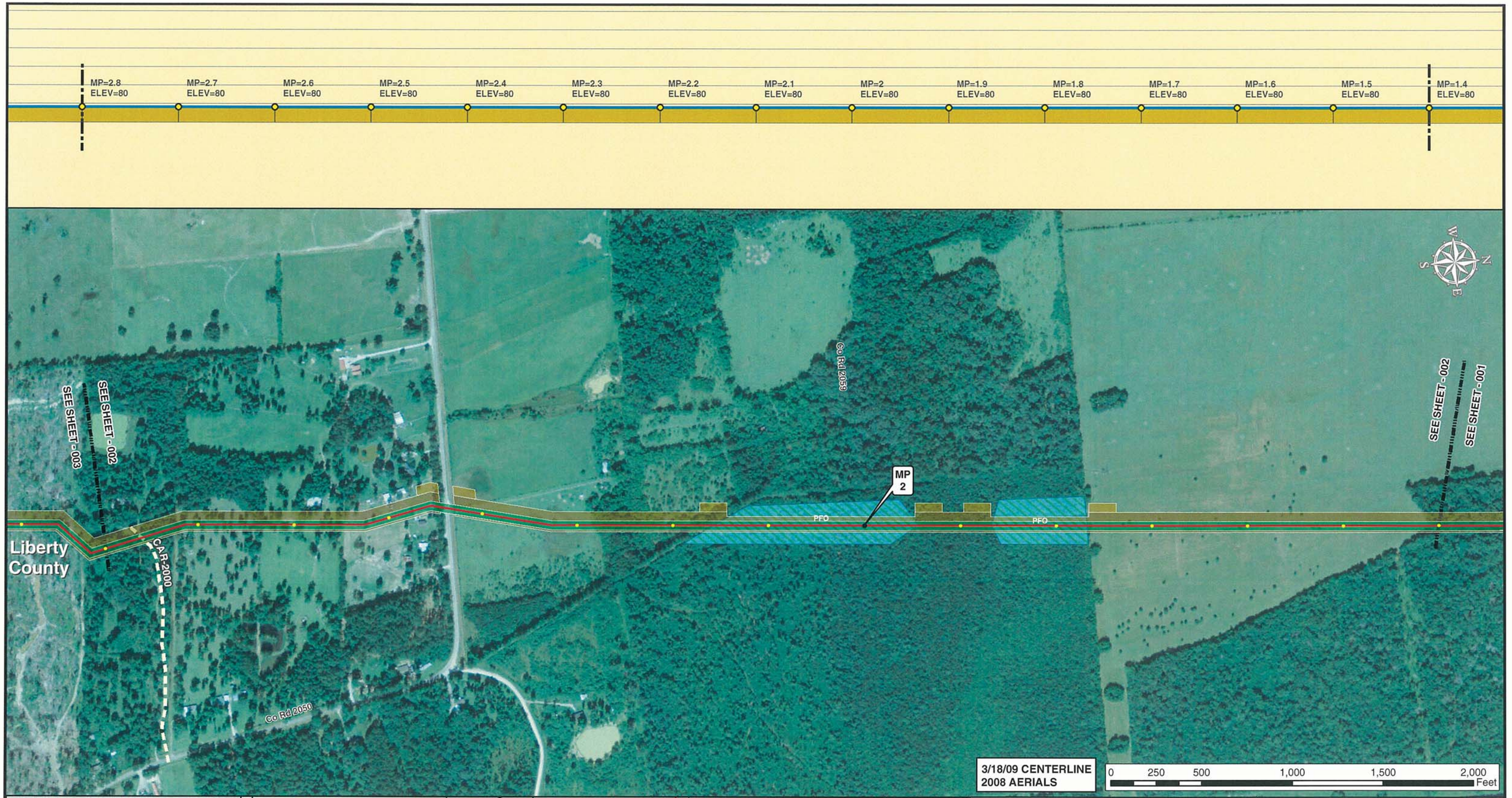
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 001-A	001	1



Legend

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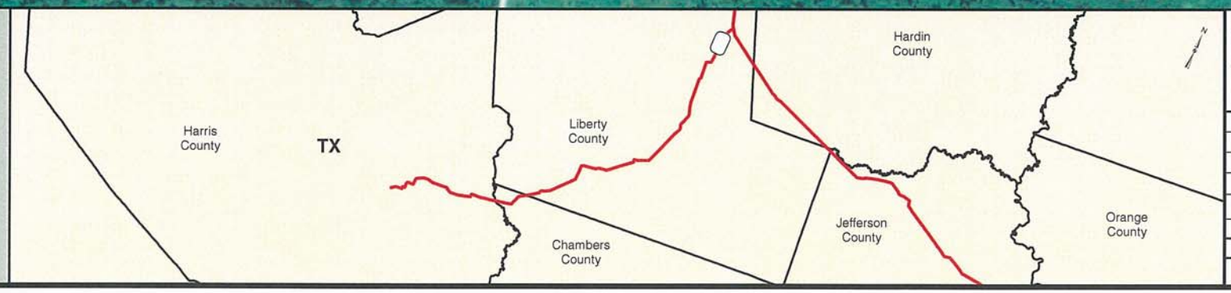

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LIBERTY COUNTY, TEXAS

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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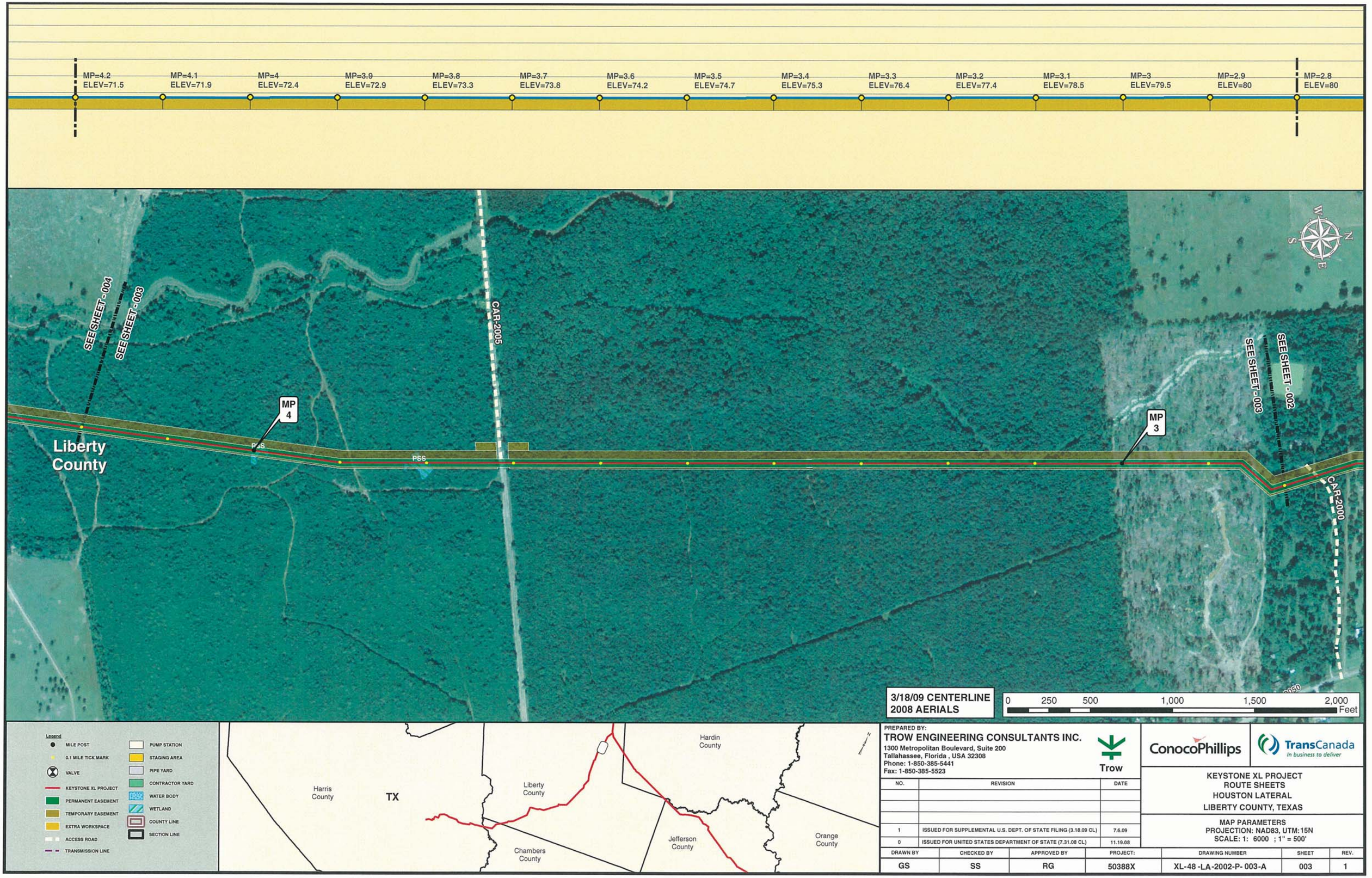

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
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LIBERTY COUNTY, TEXAS

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SCALE: 1: 6000 ; 1" = 500'

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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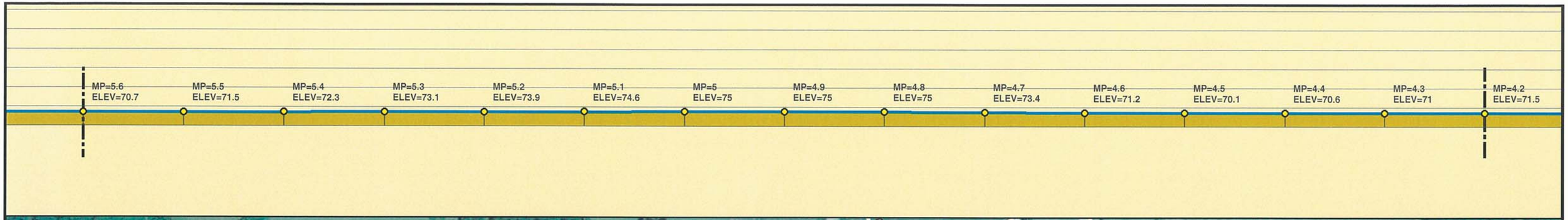

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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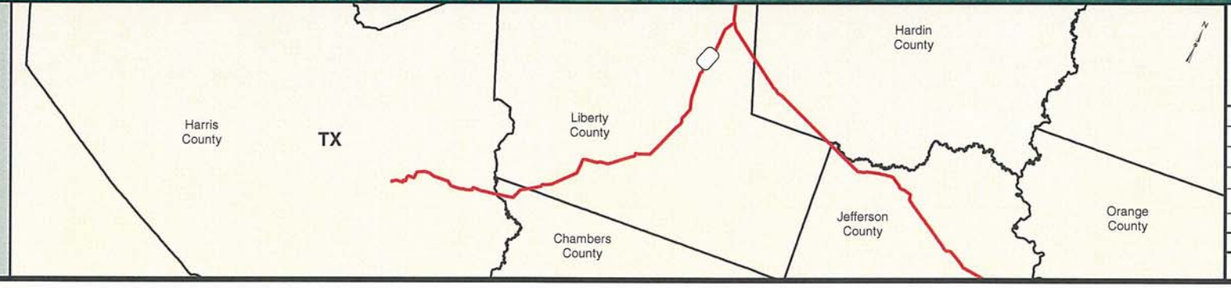

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HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 004-A	004	1

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
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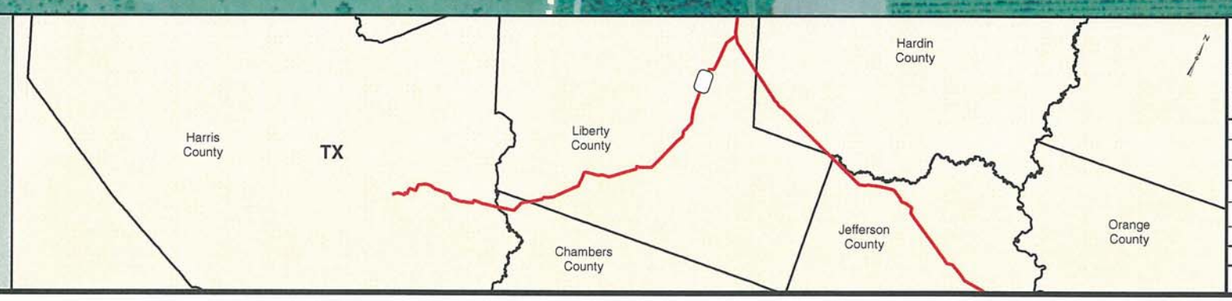

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LIBERTY COUNTY, TEXAS

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 005-A	005	1

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SEE SHEET - 007

SEE SHEET - 006

Liberty County

MP 8

SEE SHEET - 006

SEE SHEET - 005

MP 7

CAR-2030

Emergent

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
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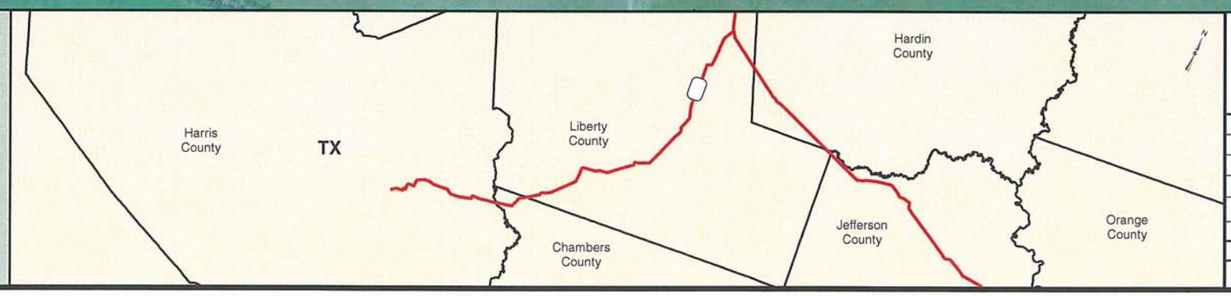

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KEYSTONE XL PROJECT
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HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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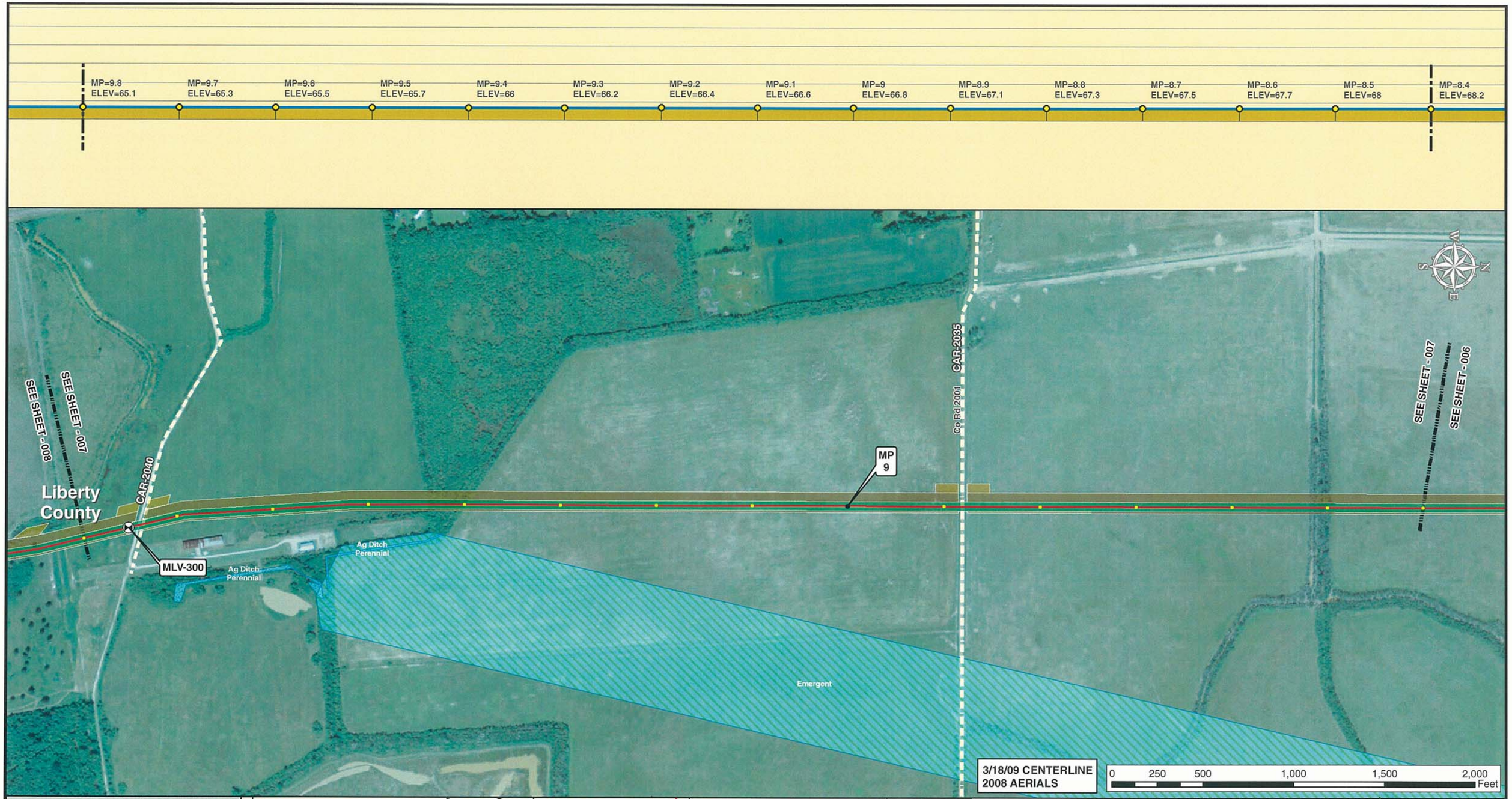

Legend

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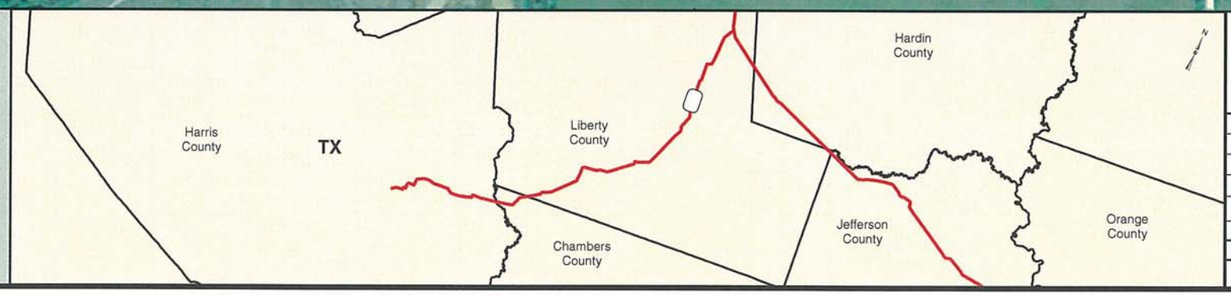

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KEYSTONE XL PROJECT
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HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
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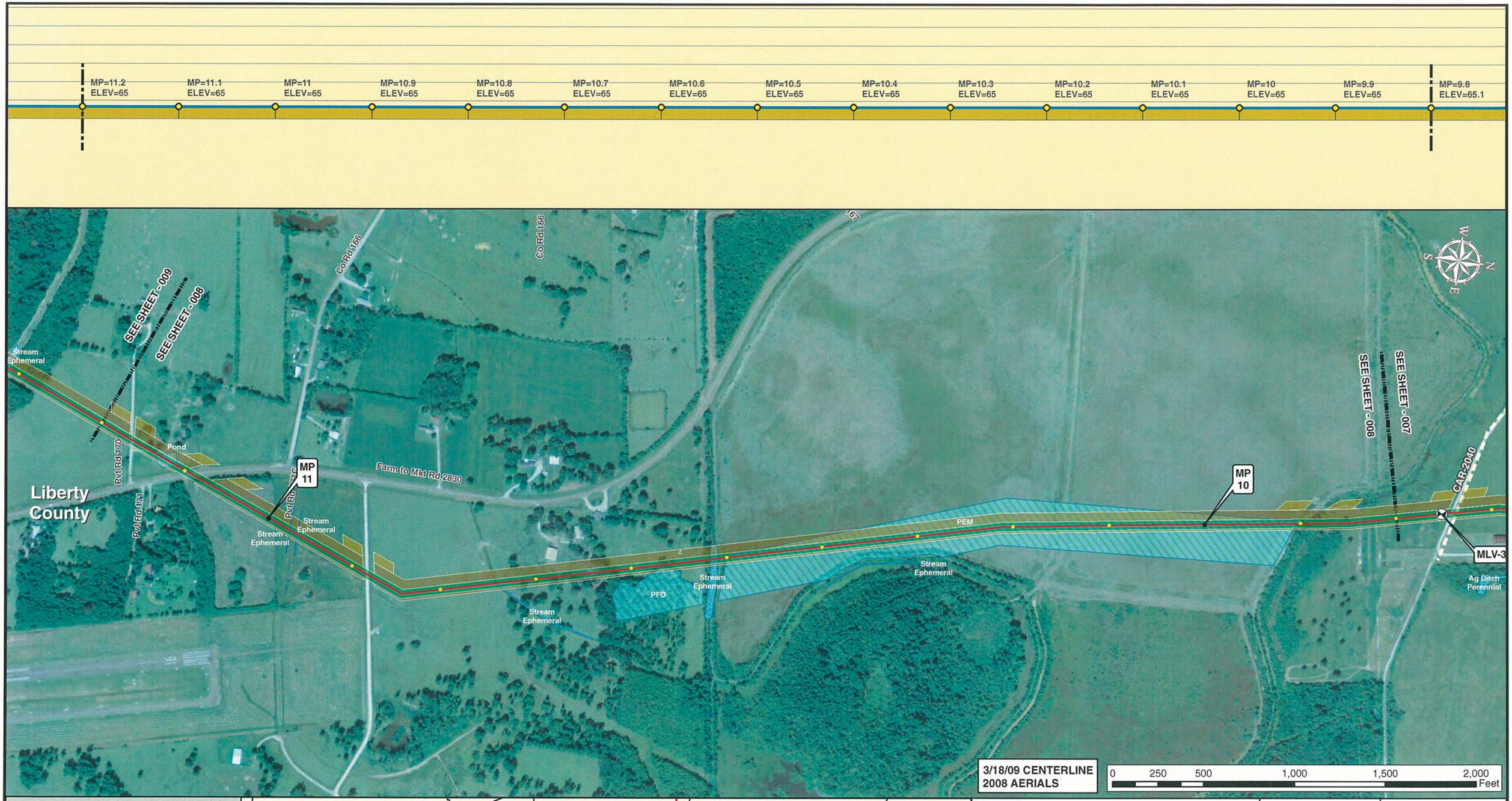

Legend

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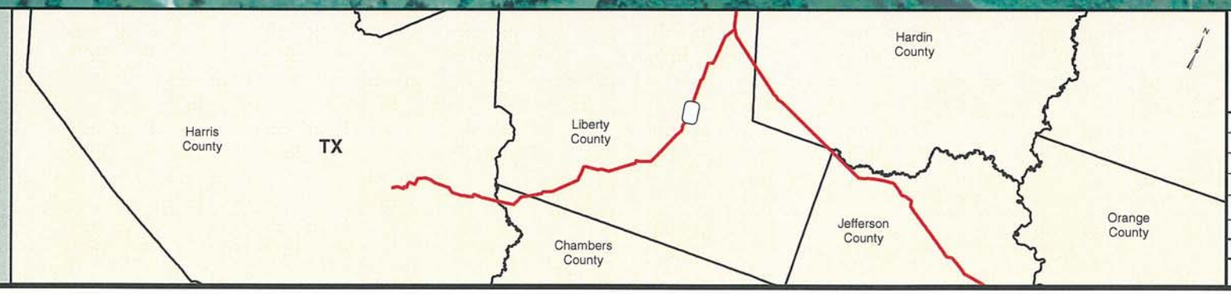

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HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
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SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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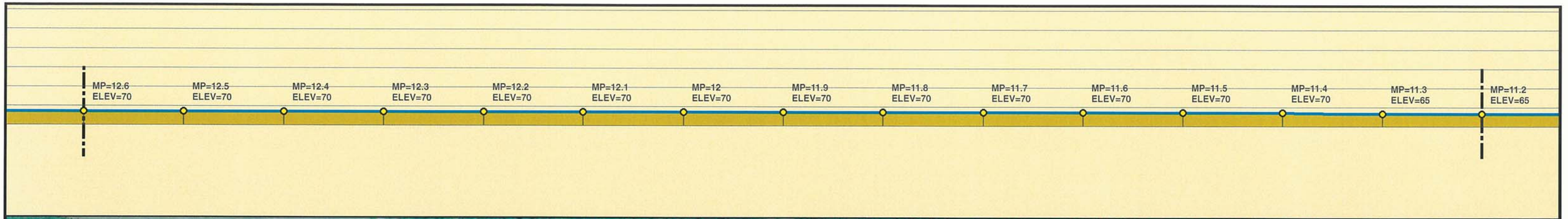

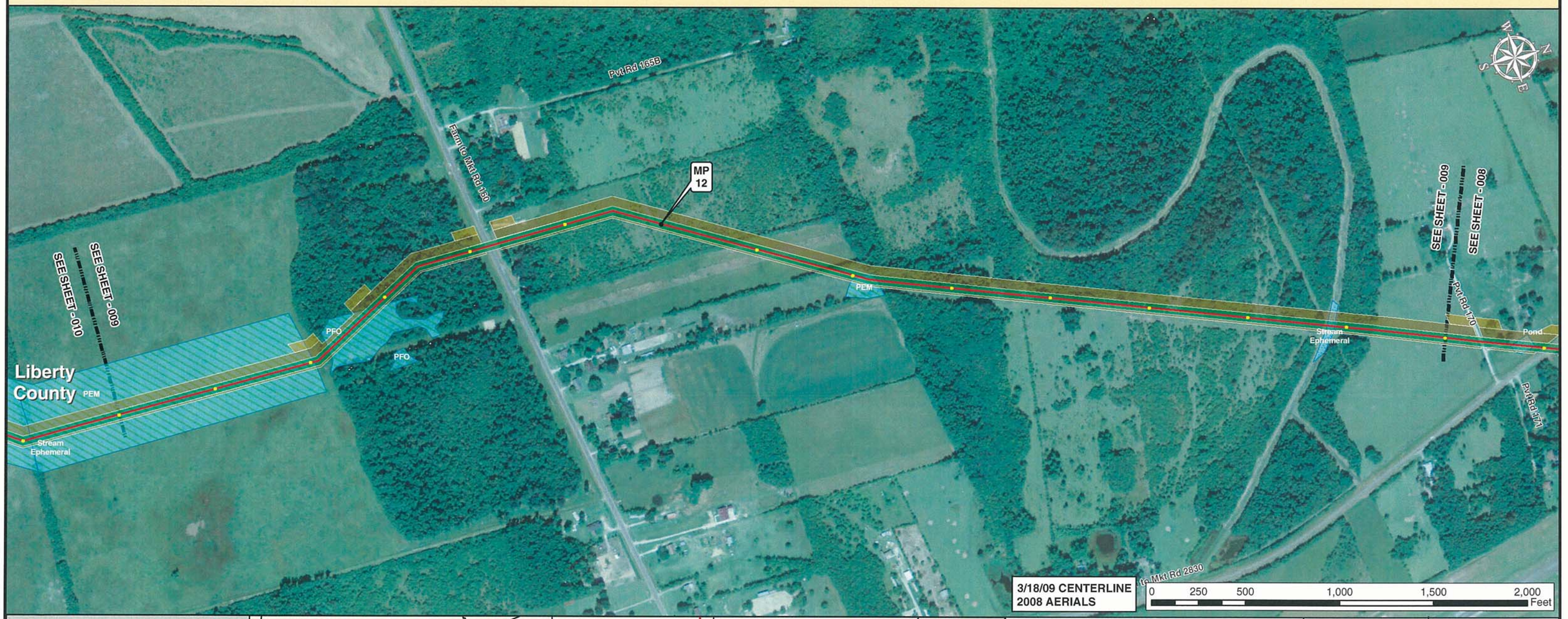

Legend

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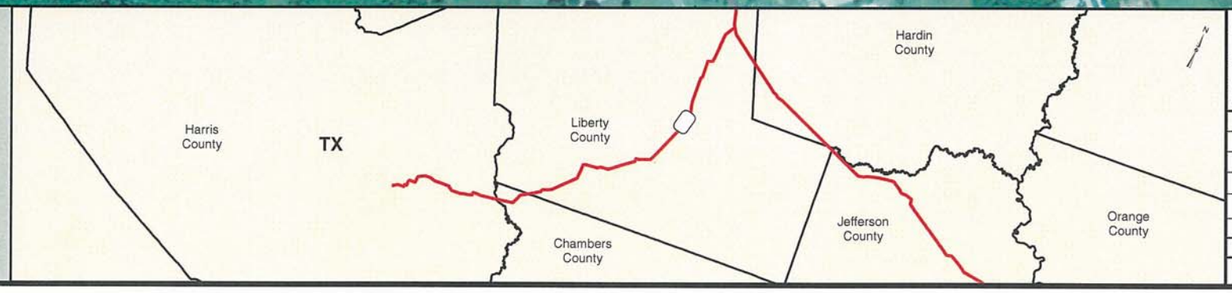

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 009-A	009	1

Legend

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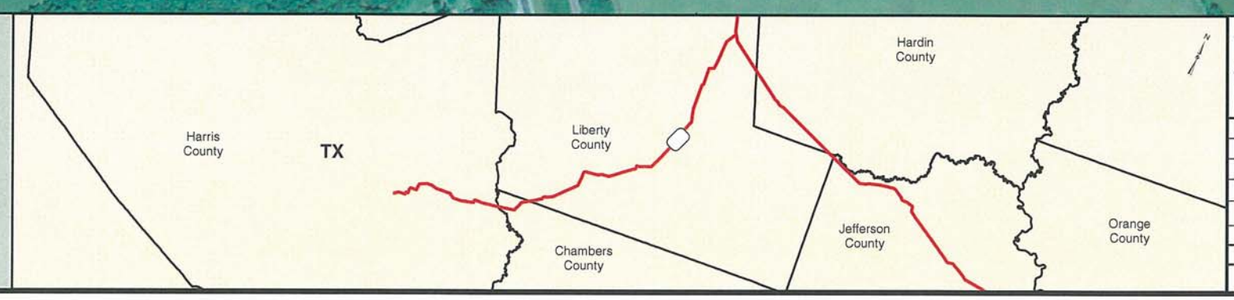

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GS	SS	RG	50388X	XL-48 -LA-2002-P- 010-A	010	1

MP=15.4 ELEV=60 | MP=15.3 ELEV=60 | MP=15.2 ELEV=60 | MP=15.1 ELEV=60.6 | MP=15 ELEV=64.1 | MP=14.9 ELEV=65.3 | MP=14.8 ELEV=65.6 | MP=14.7 ELEV=66 | MP=14.6 ELEV=66.3 | MP=14.5 ELEV=66.7 | MP=14.4 ELEV=67.1 | MP=14.3 ELEV=67.4 | MP=14.2 ELEV=67.8 | MP=14.1 ELEV=68.1 | MP=14 ELEV=68.5

SEE SHEET - 012

SEE SHEET - 011

Martin Luther King Dr.

to Mkt Rd 160

MP 15

PEM

Pond

Stream Perennial

PEM

PFO

Stream Intermittent

CAR-2050

MP 14

SEE SHEET - 011

SEE SHEET - 010

Liberty County

Farm to Mkt Rd 160 S

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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- 0.1 MILE TICK MARK
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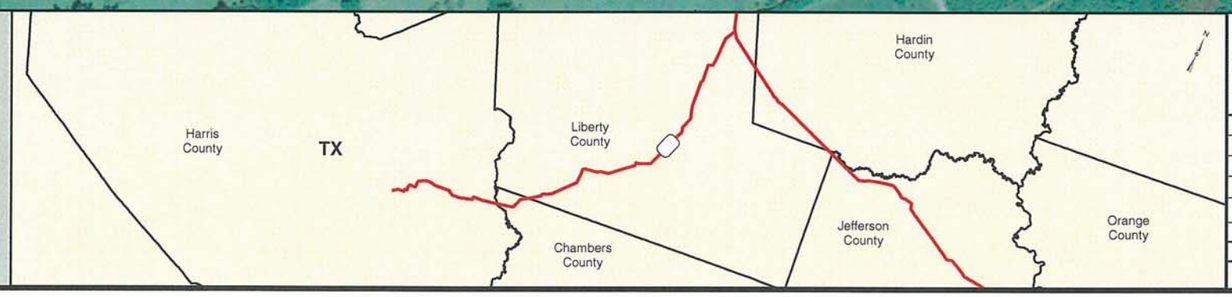

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LIBERTY COUNTY, TEXAS

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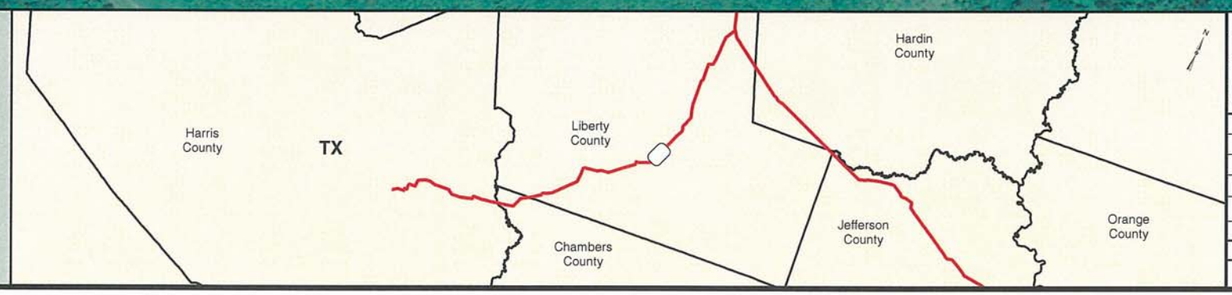
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 011-A	011	1

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE



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TROW ENGINEERING CONSULTANTS INC.
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Phone: 1-850-385-5441
Fax: 1-850-385-5523

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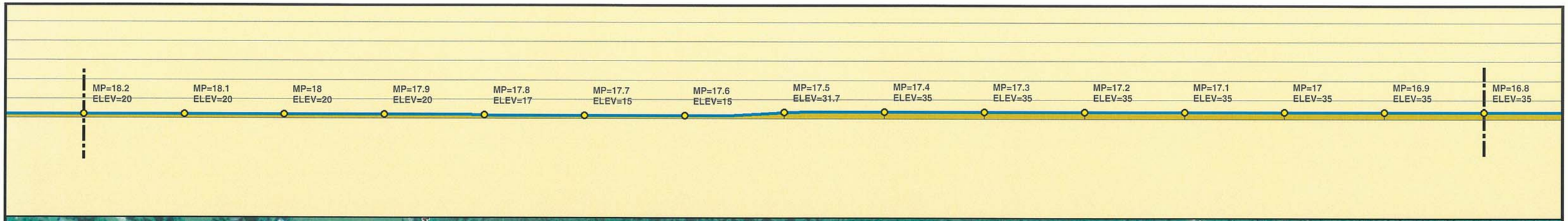
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 012-A	012	1



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
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LIBERTY COUNTY, TEXAS

MAP PARAMETERS
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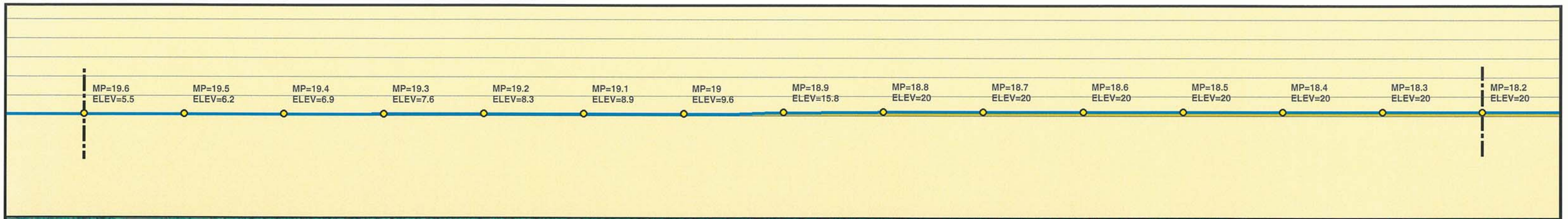
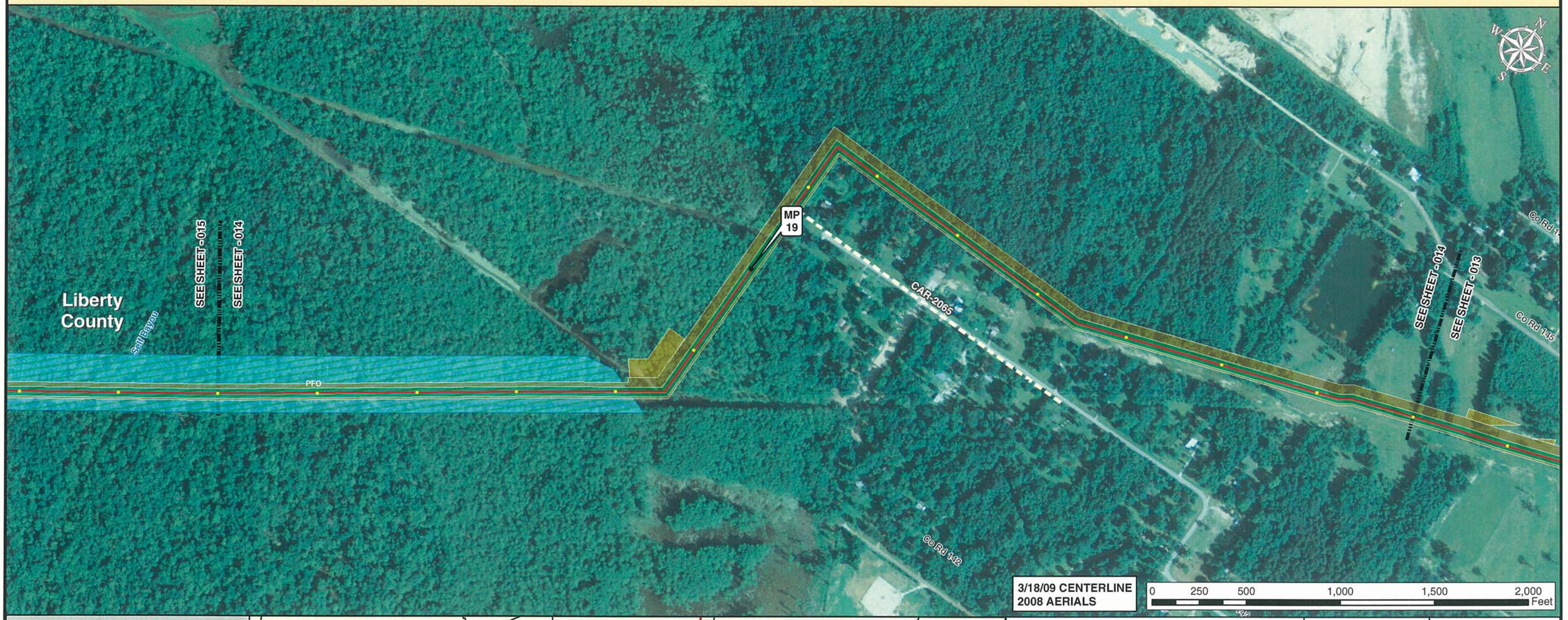
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 013-A	013	1





Legend

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- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
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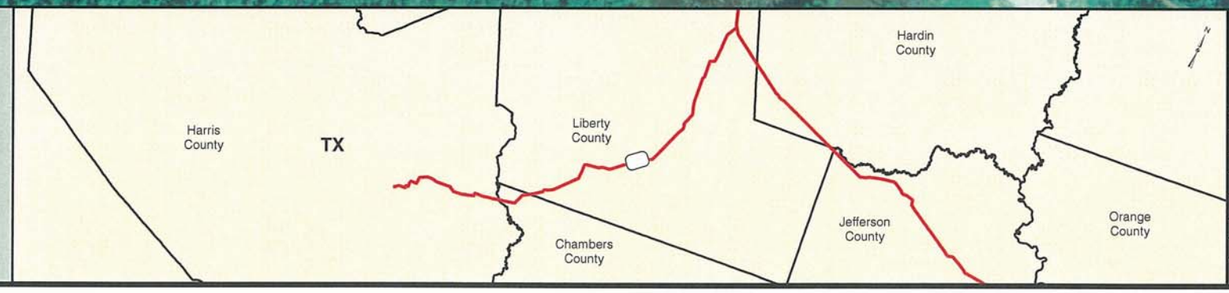

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

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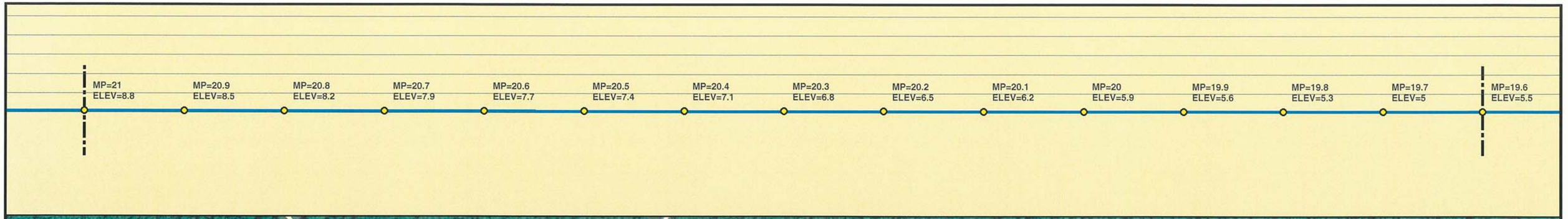
GS	SS	RG	50388X	XL-48 -LA-2002-P- 014-A	014	1



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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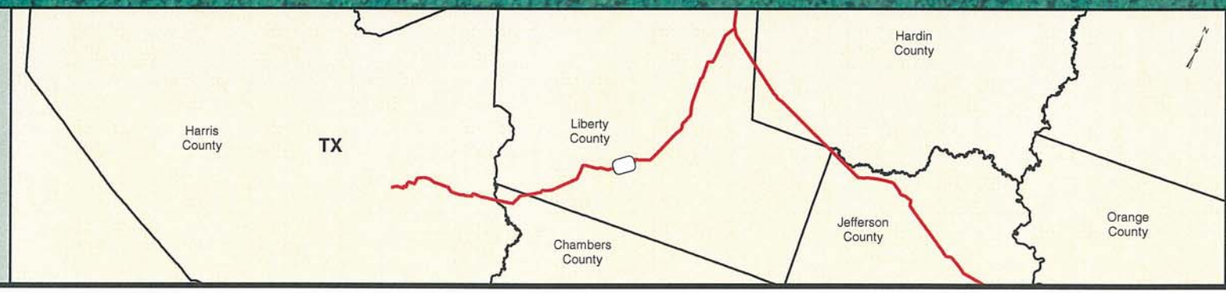

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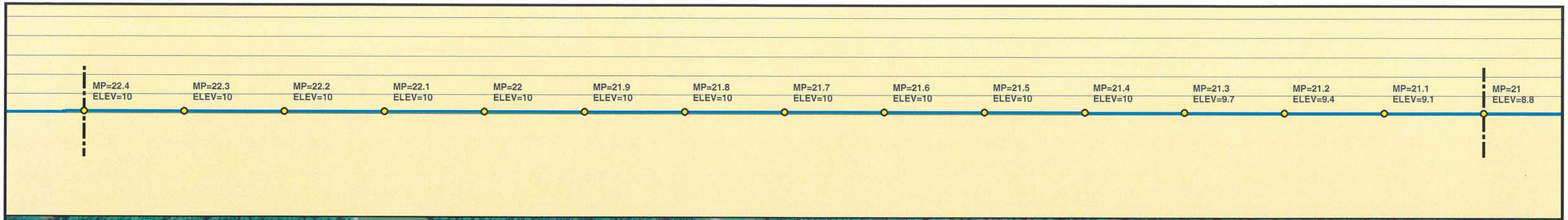
GS	SS	RG	50388X	XL-48 -LA-2002-P- 015-A	015	1



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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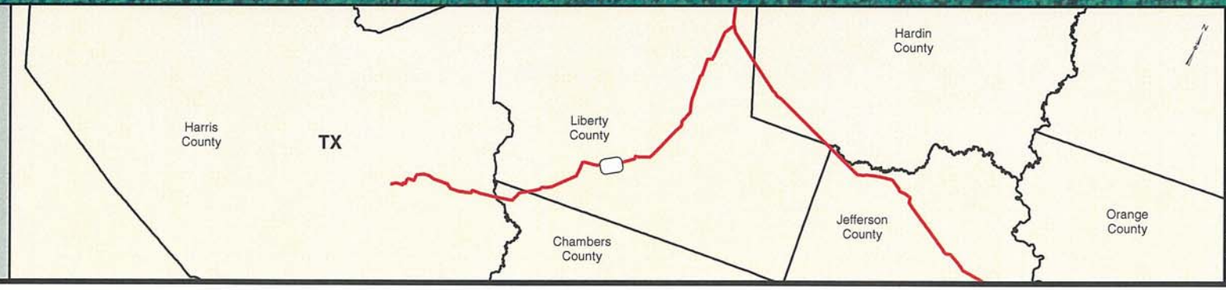

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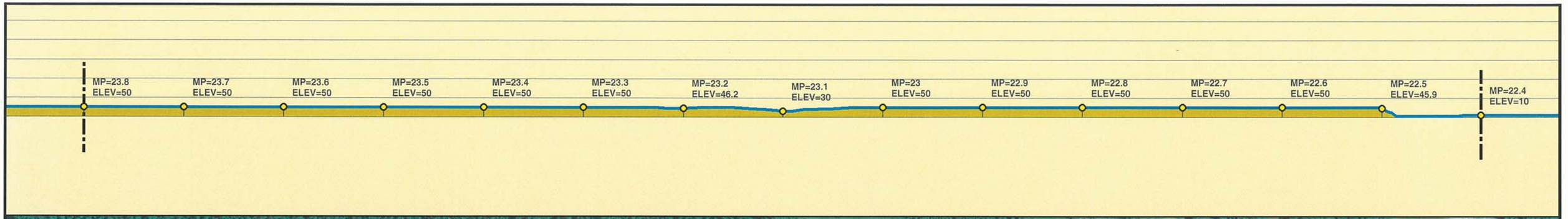
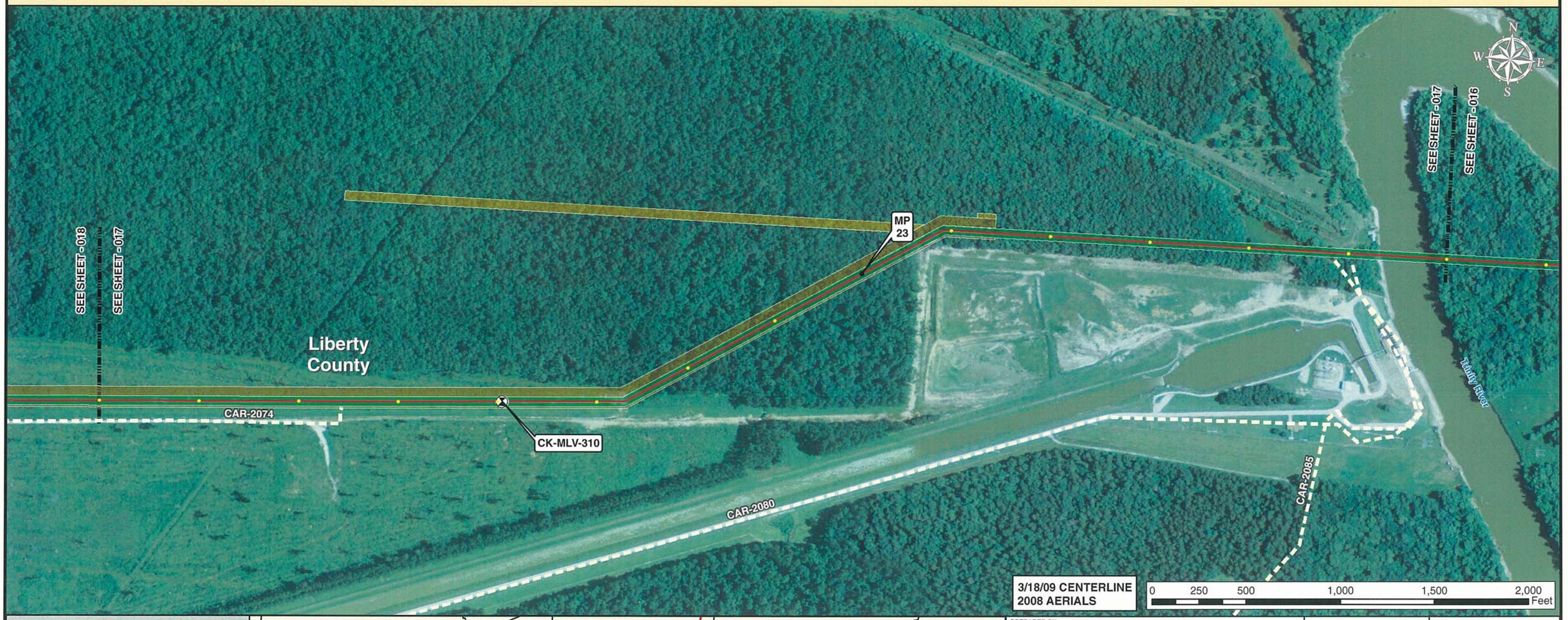
GS	SS	RG	50388X	XL-48 -LA-2002-P- 016-A	016	1





Legend

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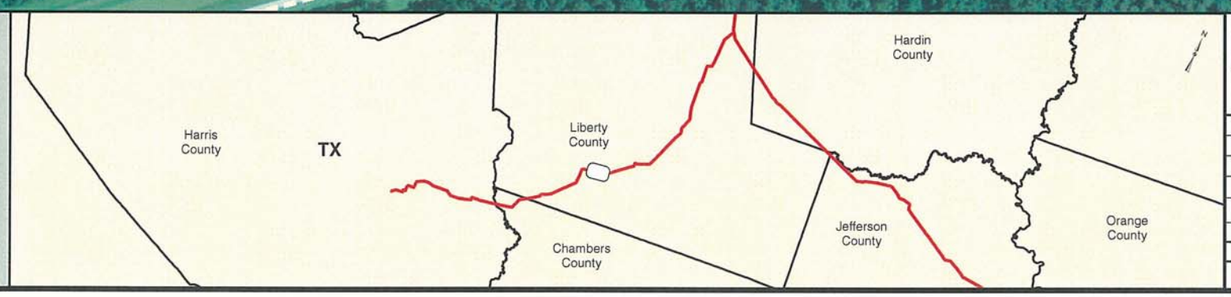

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LIBERTY COUNTY, TEXAS

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GS	SS	RG	50388X	XL-48 -LA-2002-P- 017-A	017	1

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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- VALVE
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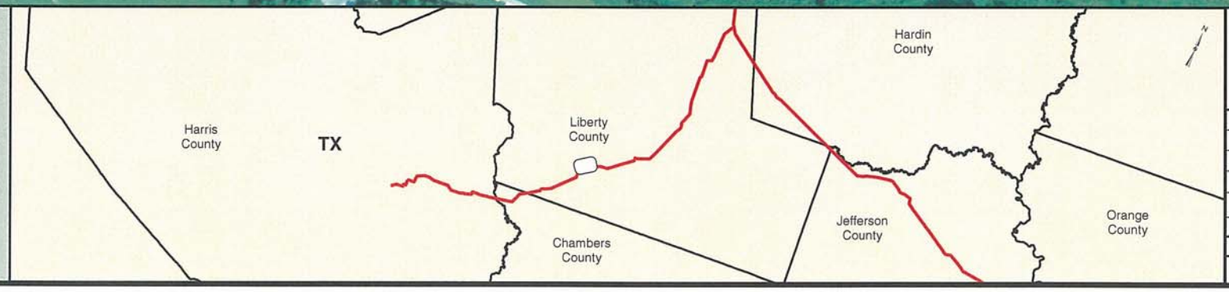

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
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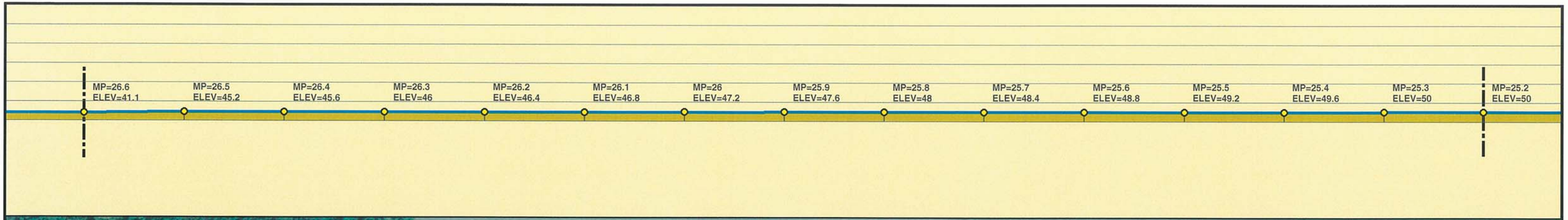
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 018-A	018	1



Legend

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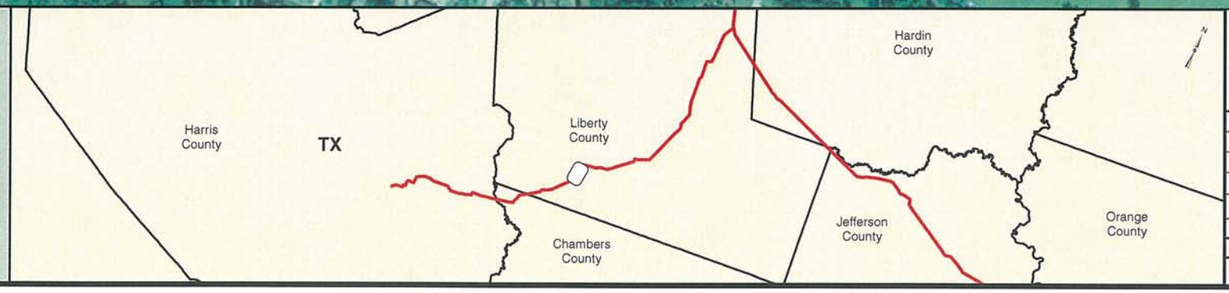

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ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

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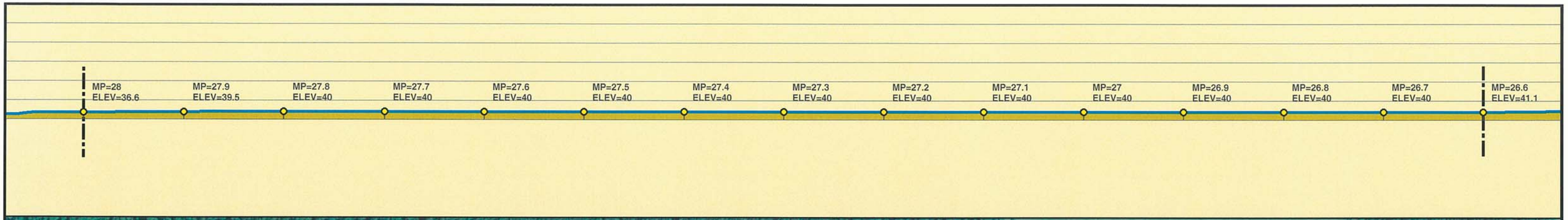
GS	SS	RG	50388X	XL-48 -LA-2002-P- 019-A	019	1



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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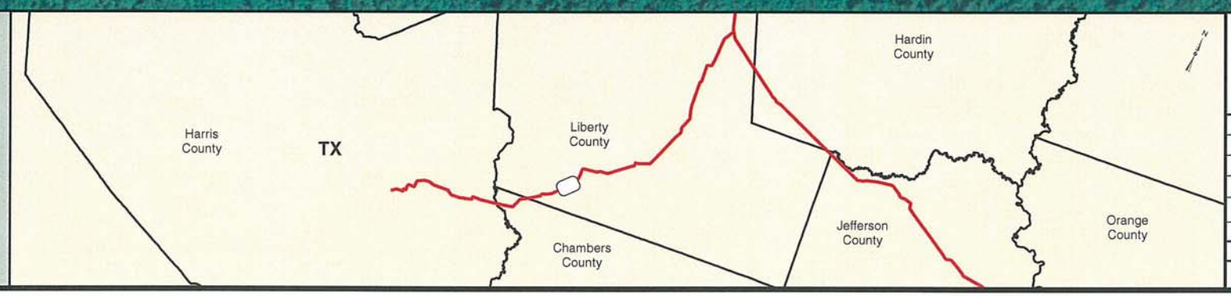

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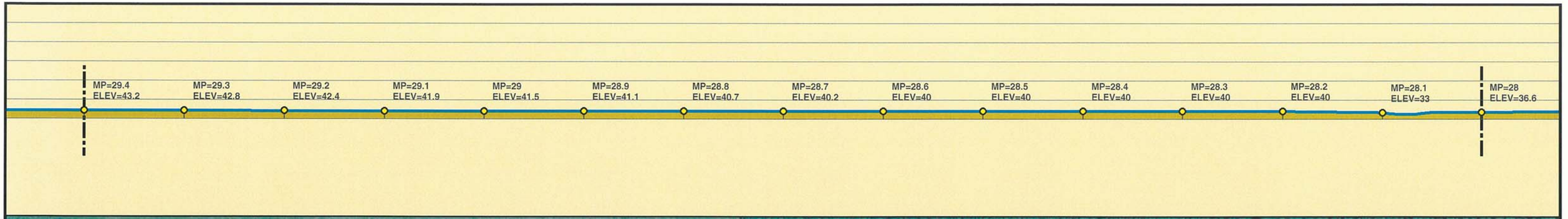
GS	SS	RG	50388X	XL-48-LA-2002-P-020-A	020	1



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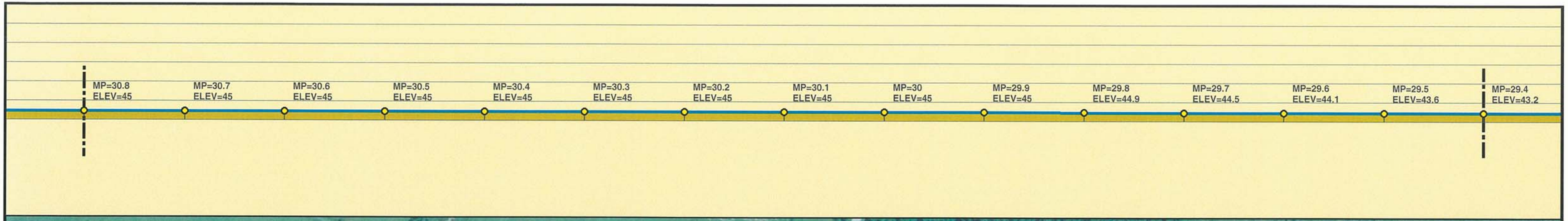
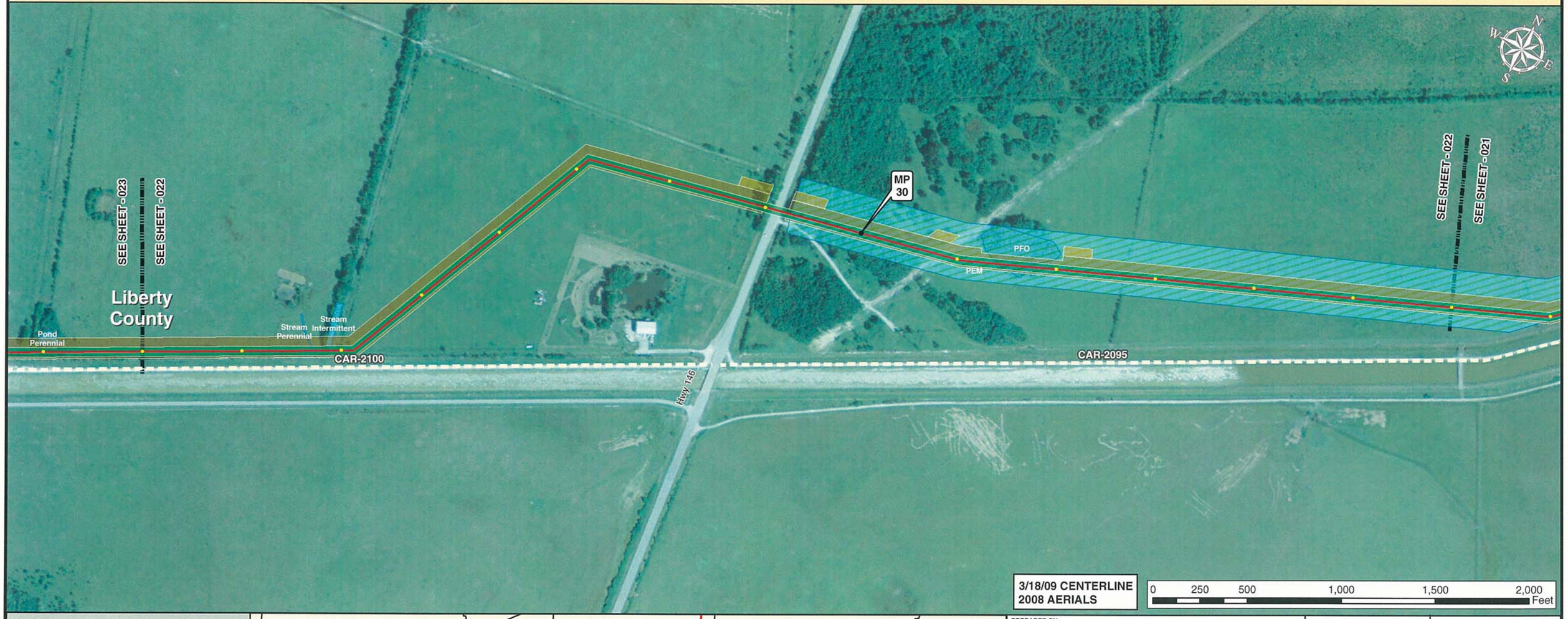
GS	SS	RG	50388X	XL-48 -LA-2002-P- 021-A	021	1





3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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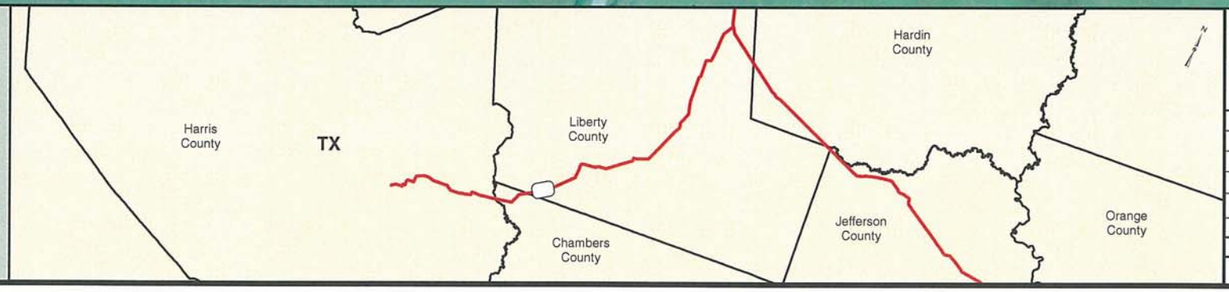

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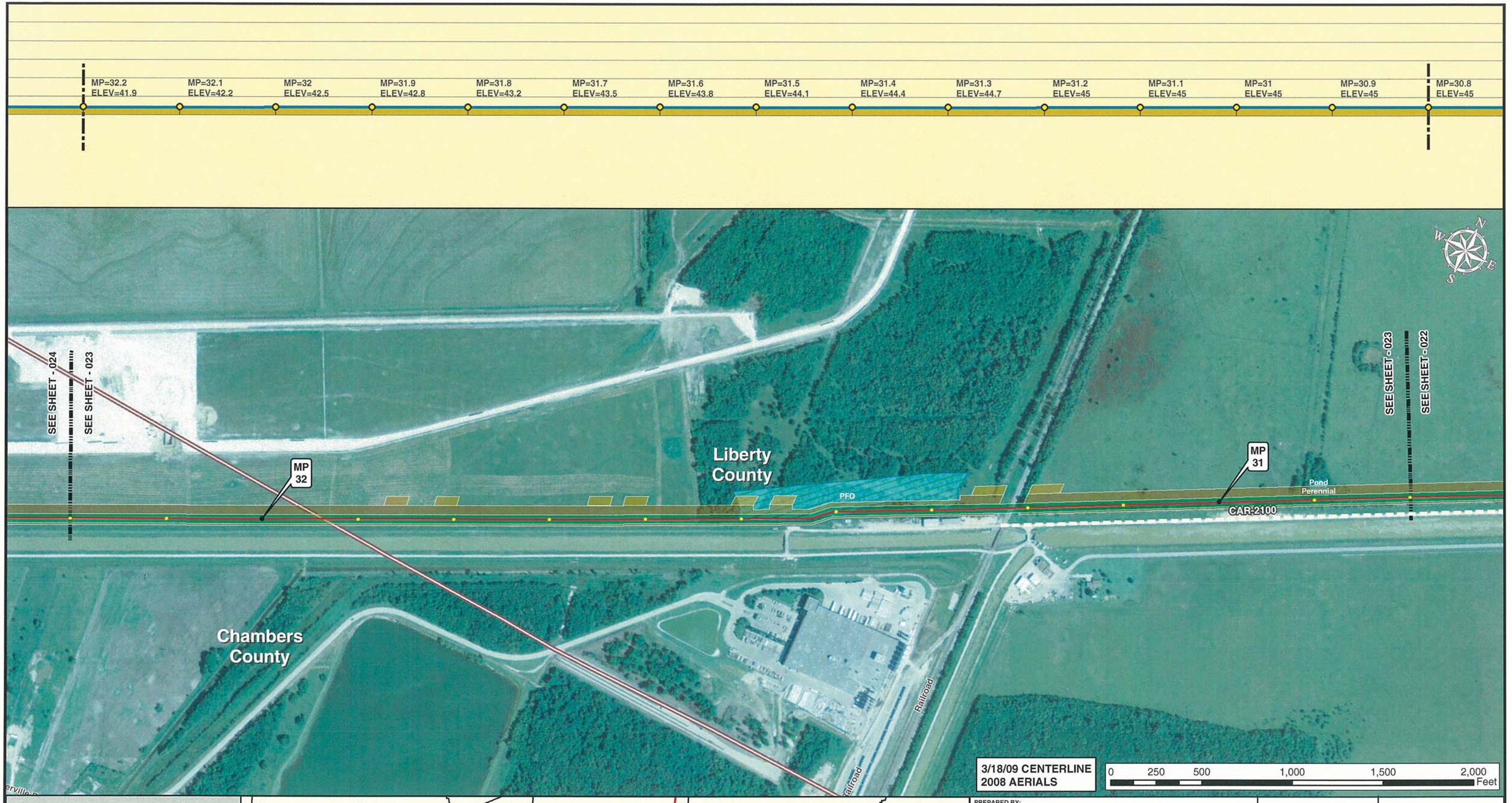
GS	SS	RG	50388X	XL-48 -LA-2002-P- 022-A	022	1



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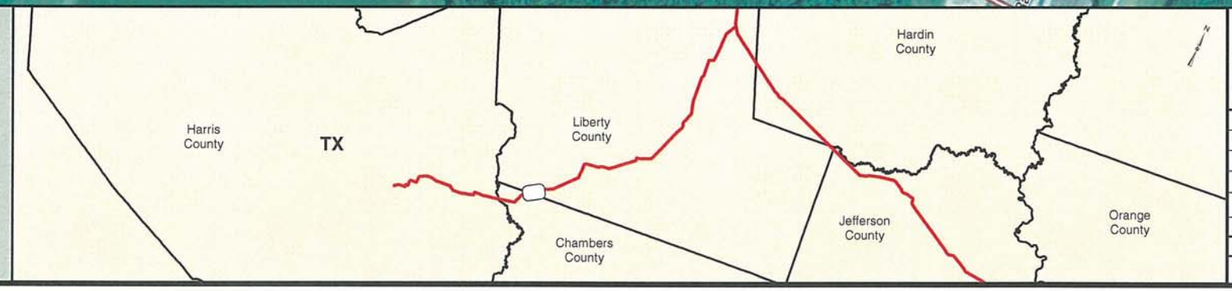

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SCALE: 1: 6000 ; 1" = 500'

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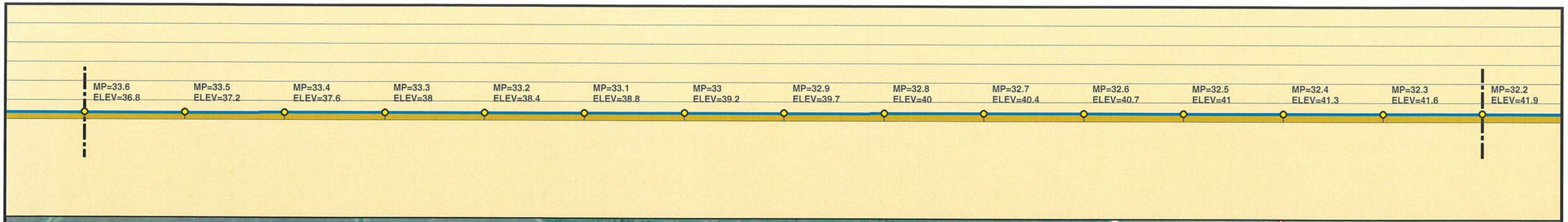
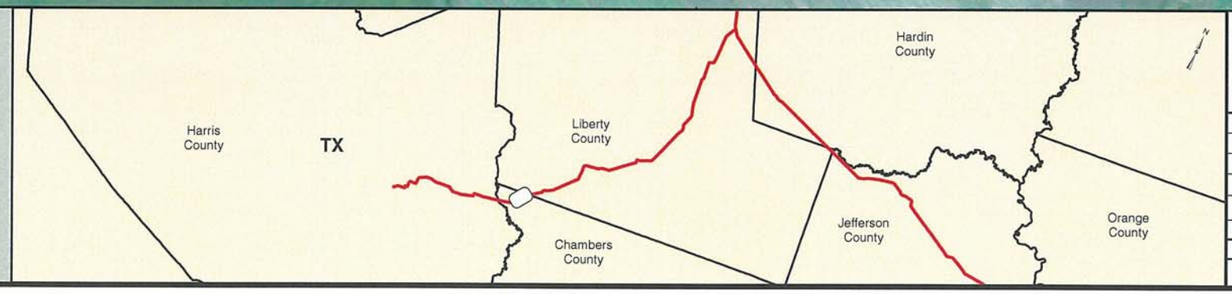
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 023-A	023	1



Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE



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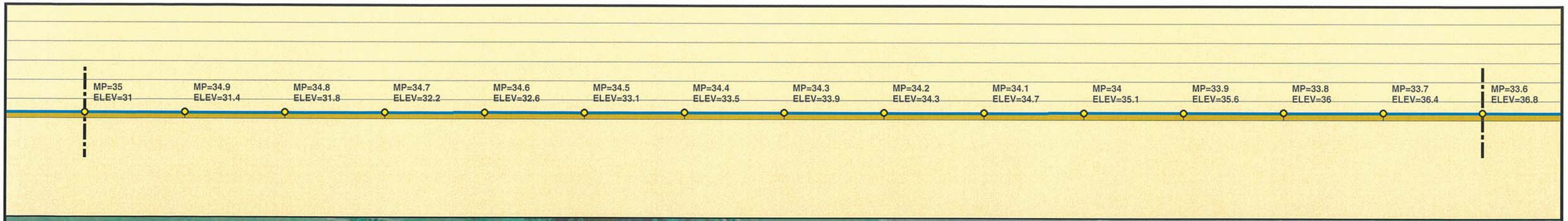
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 024-A	024	1



Legend

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- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
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- TEMPORARY EASEMENT
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- PUMP STATION
- STAGING AREA
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- CONTRACTOR YARD
- WATER BODY
- WETLAND
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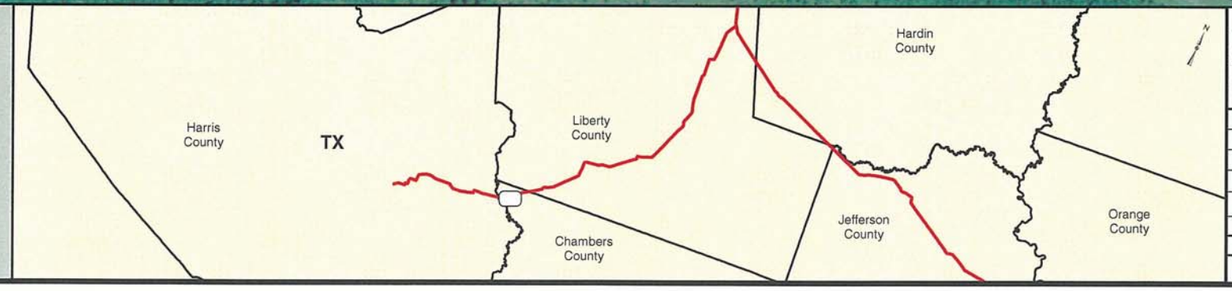
- SECTION LINE



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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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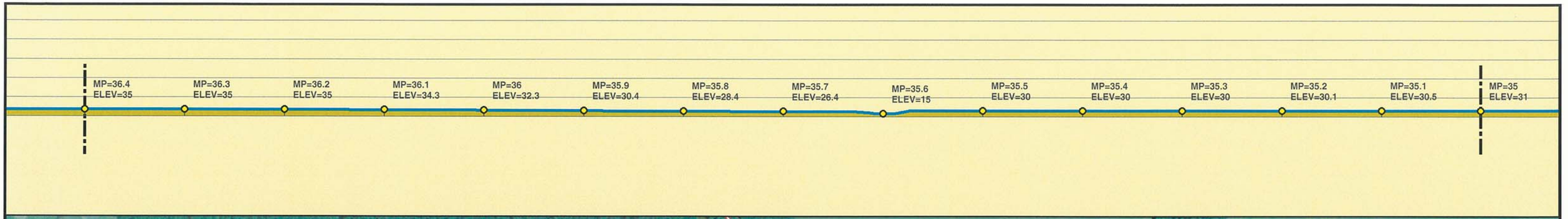

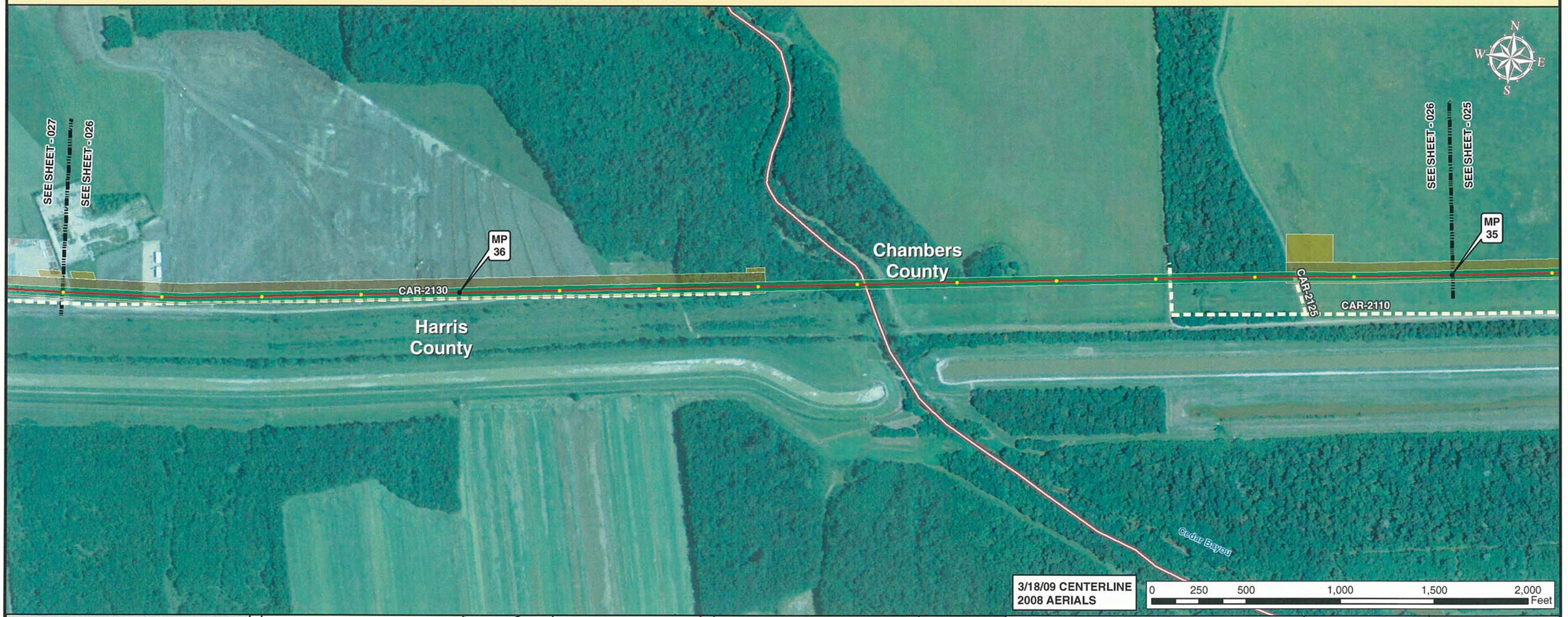

Legend

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- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
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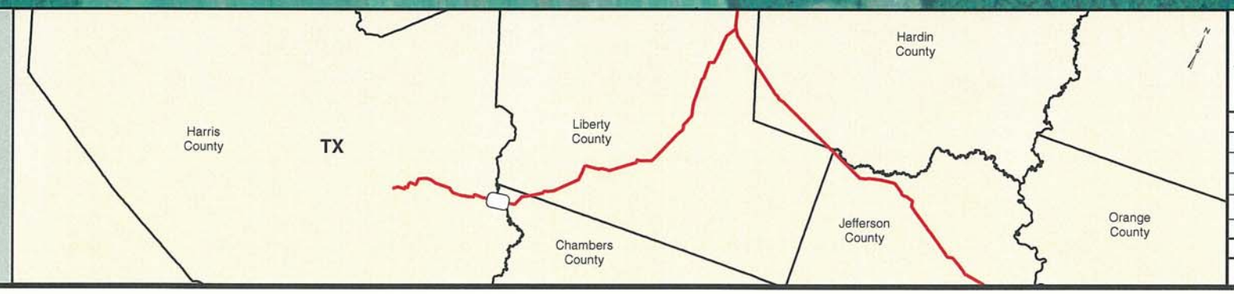

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
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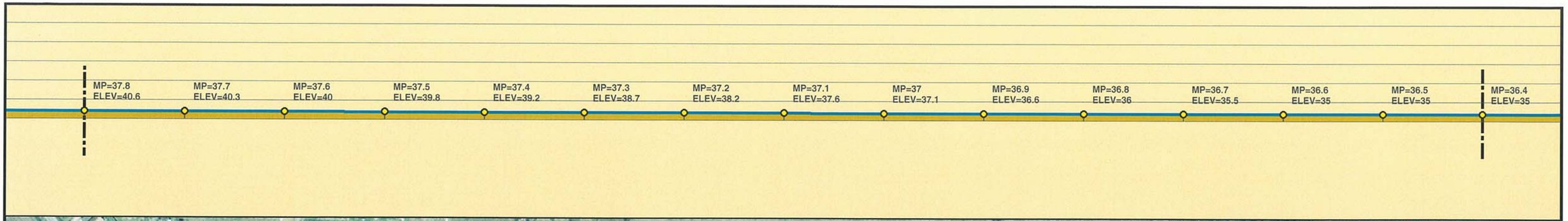

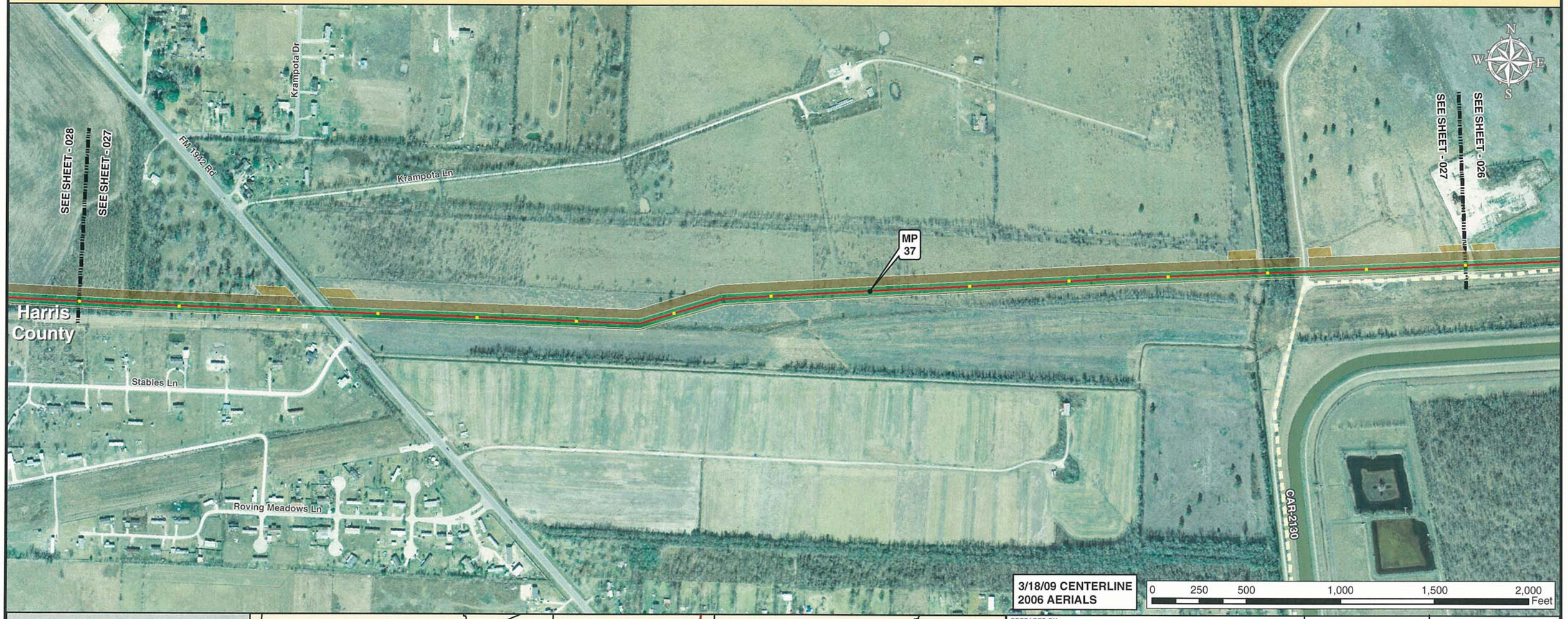

Legend

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- KEYSTONE XL PROJECT
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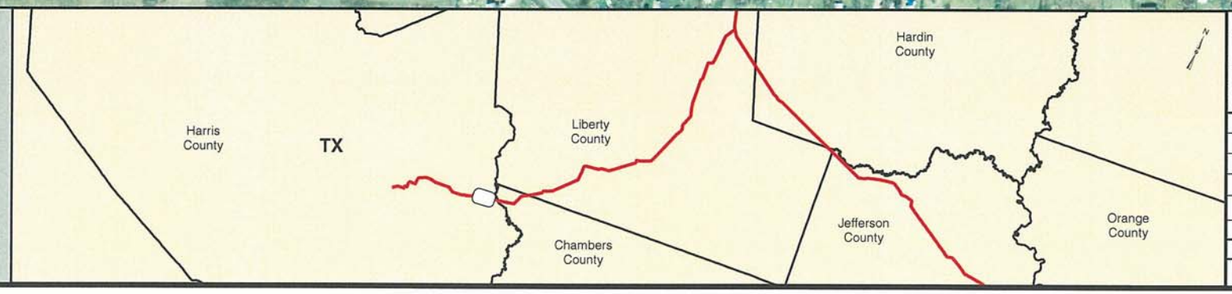

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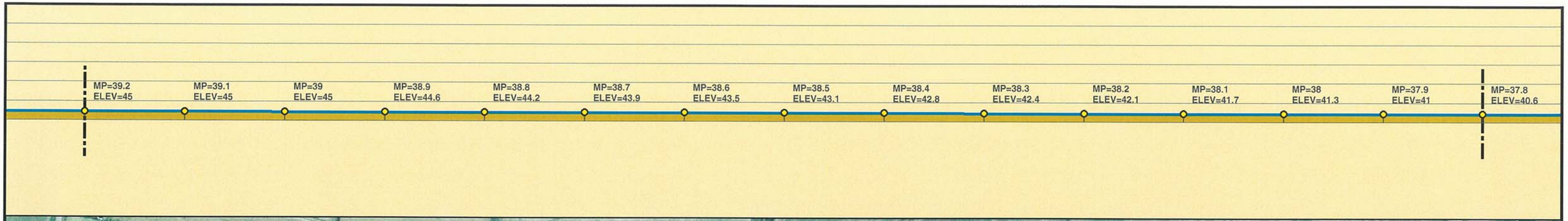
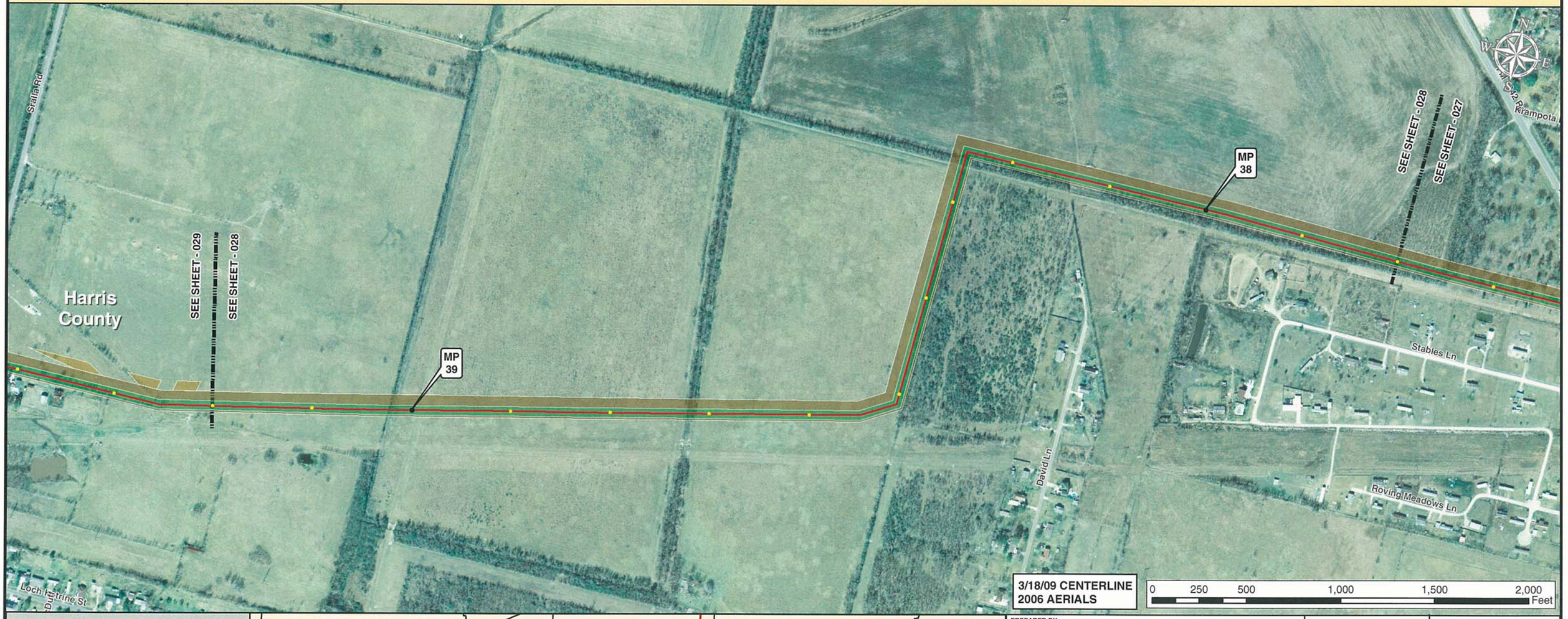
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 027-A	027	1





3/18/09 CENTERLINE
2006 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
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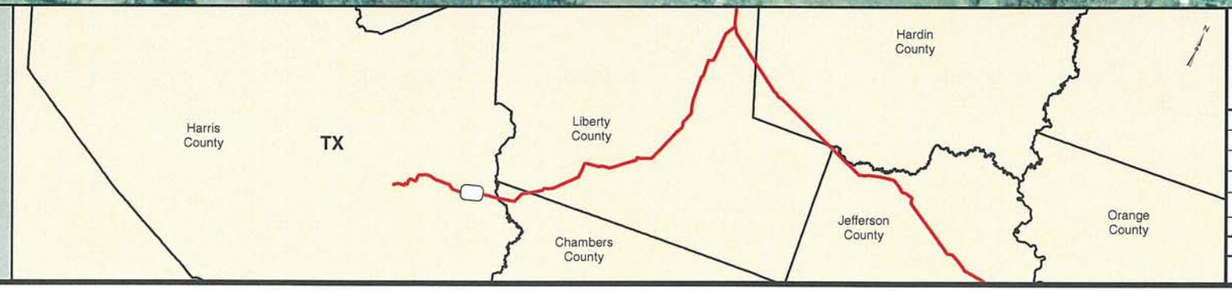

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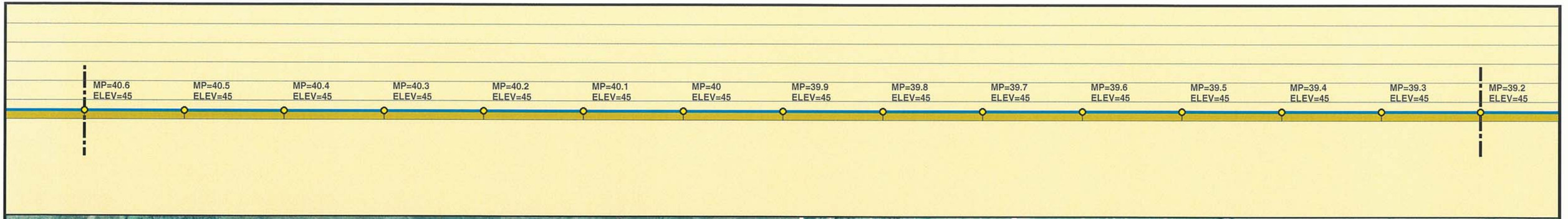
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 028-A	028	1



Legend

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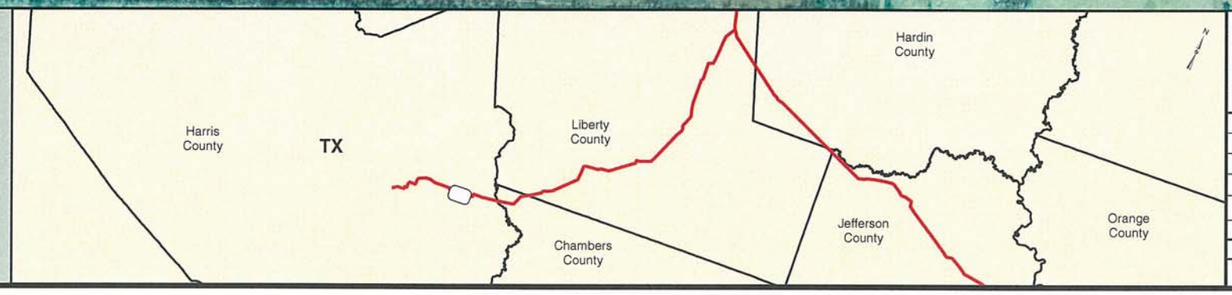

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
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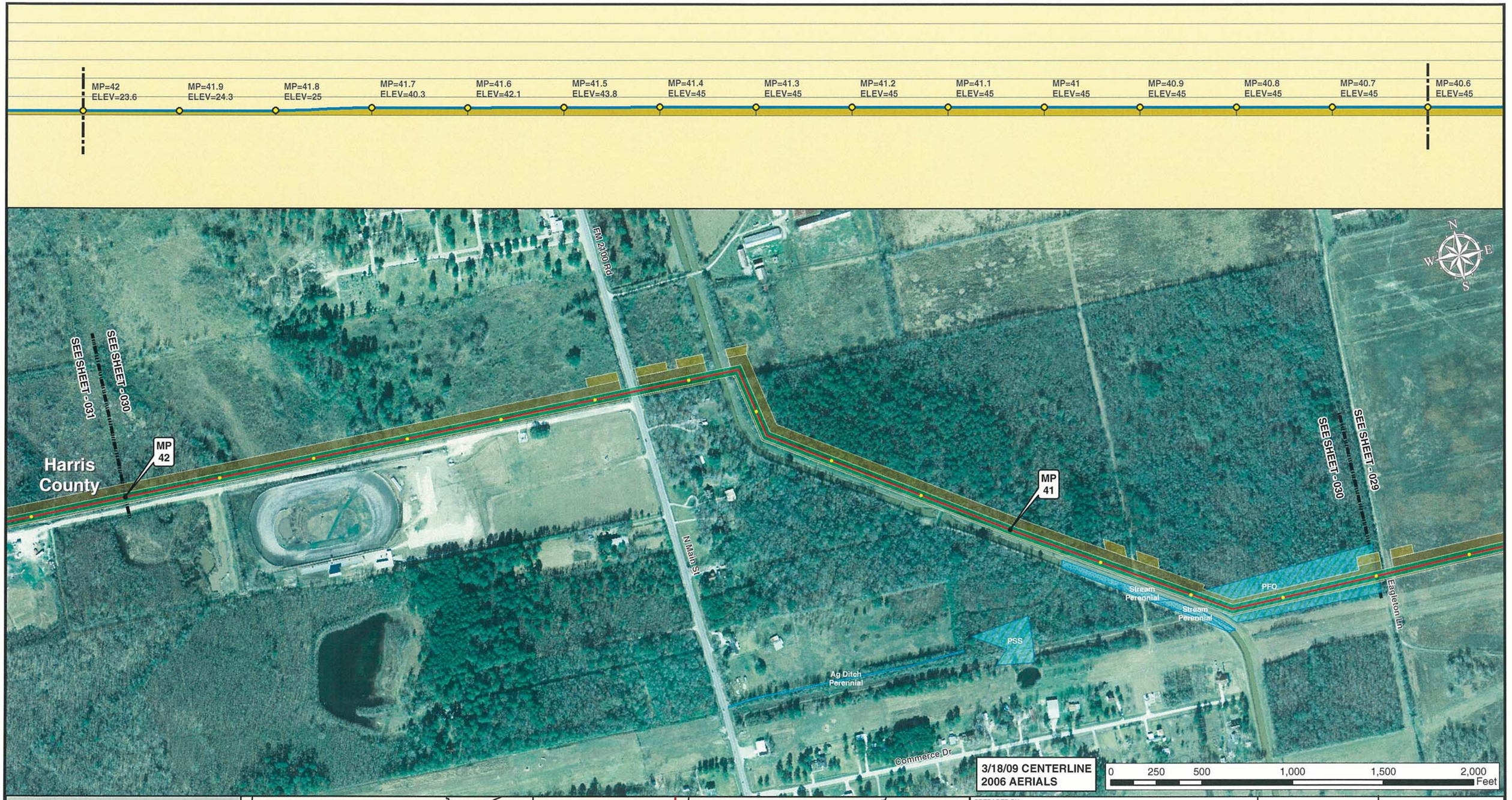

Legend

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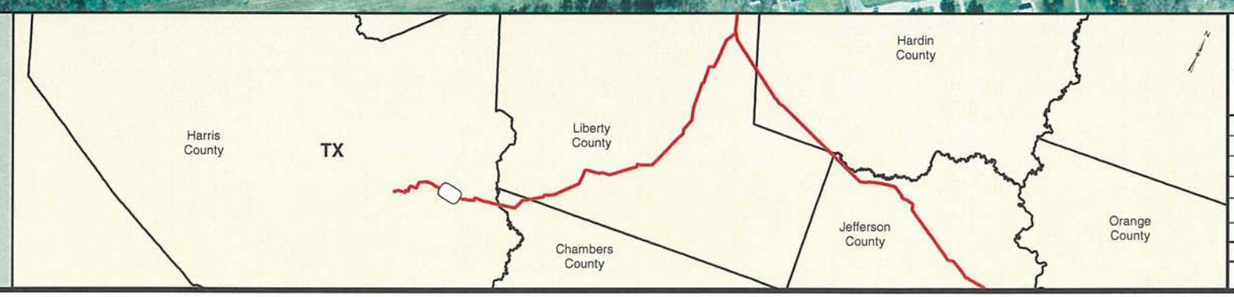

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KEYSTONE XL PROJECT
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HARRIS COUNTY, TEXAS

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GS	SS	RG	50388X	XL-48 -LA-2002-P- 030-A	030	1

MP=43.4 ELEV=5.5 | MP=43.3 ELEV=10 | MP=43.2 ELEV=8.8 | MP=43.1 ELEV=6.9 | MP=43 ELEV=5 | MP=42.9 ELEV=5 | MP=42.8 ELEV=5 | MP=42.7 ELEV=15 | MP=42.6 ELEV=17.7 | MP=42.5 ELEV=20.1 | MP=42.4 ELEV=20.8 | MP=42.3 ELEV=21.5 | MP=42.2 ELEV=22.2 | MP=42.1 ELEV=22.9 | MP=42 ELEV=23.6

San Jacinto River

SEE SHEET - 032

SEE SHEET - 031

SEE SHEET - 031

SEE SHEET - 030

Harris County

MP 43

MP 42

CAR-2140

MLV-320

N

W E

S

3/18/09 CENTERLINE
2006 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

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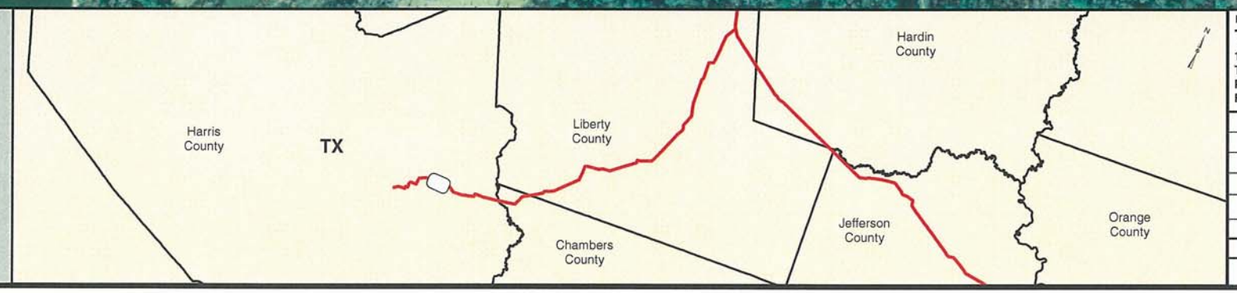

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HARRIS COUNTY, TEXAS

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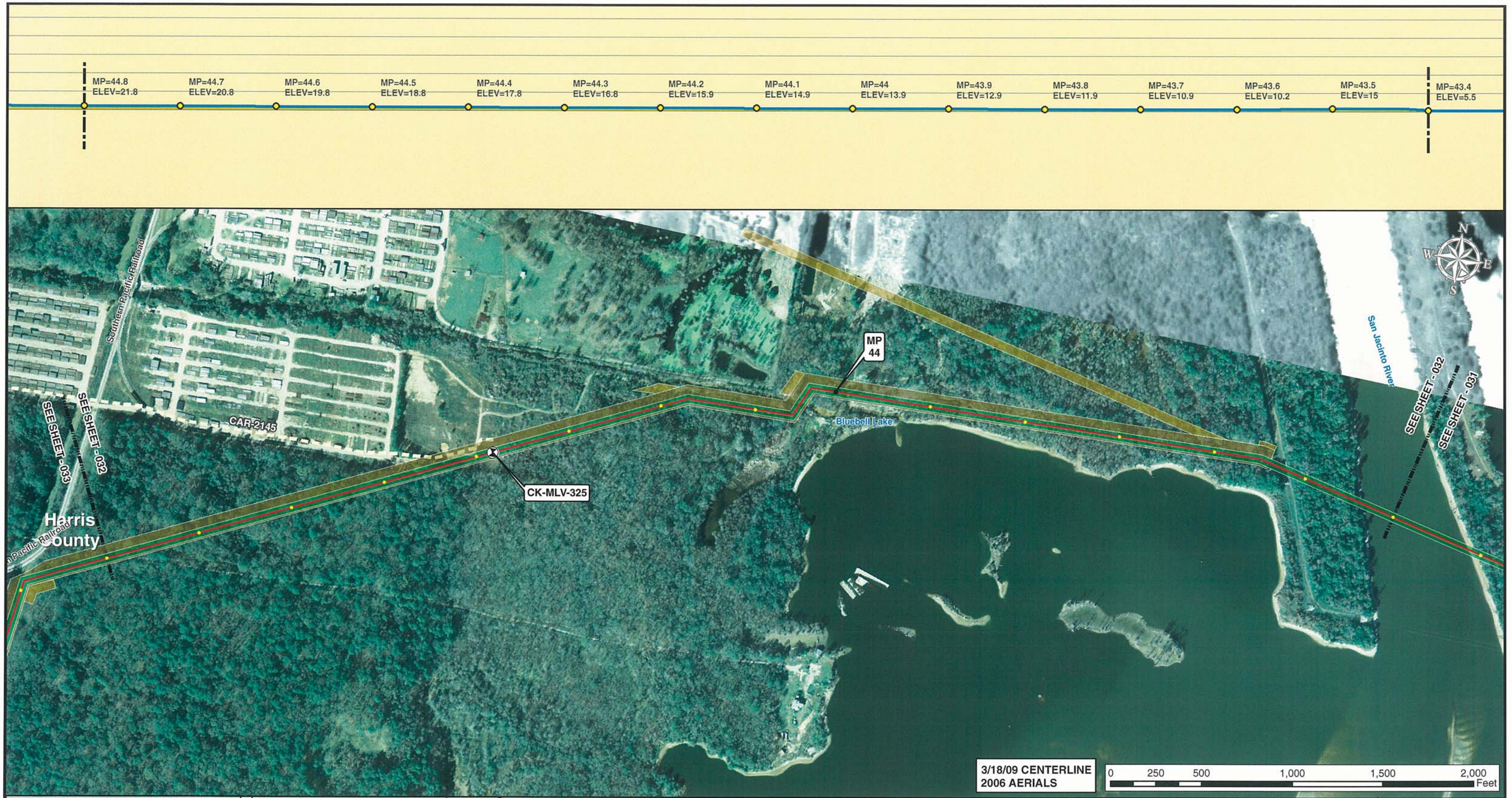

Legend

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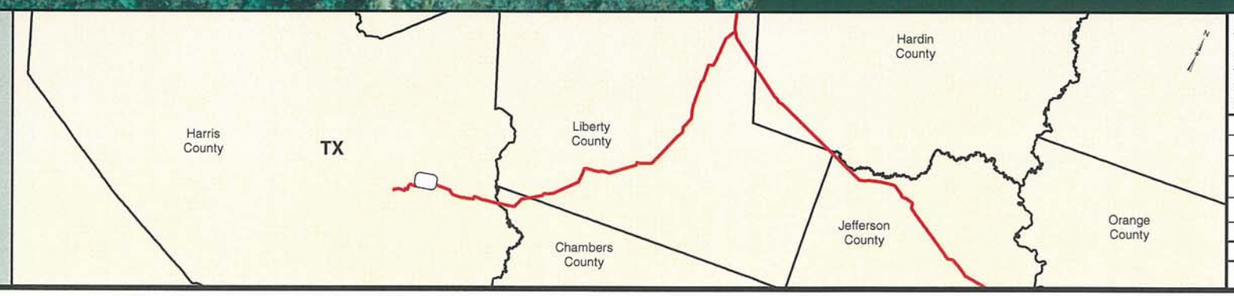

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ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

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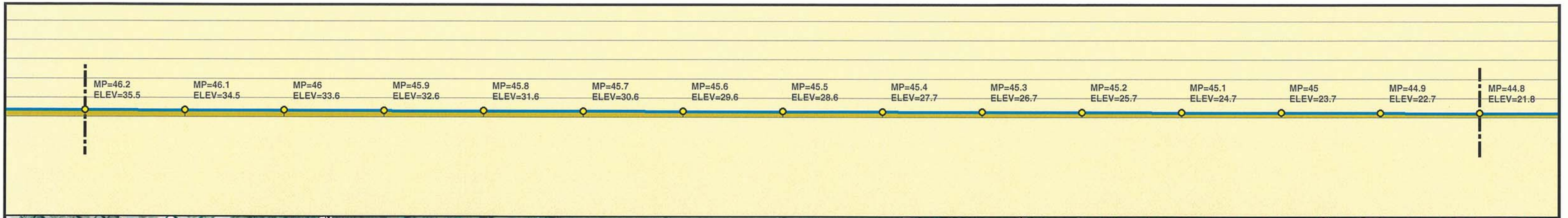
GS	SS	RG	50388X	XL-48 -LA-2002-P- 032-A	032	1



Legend

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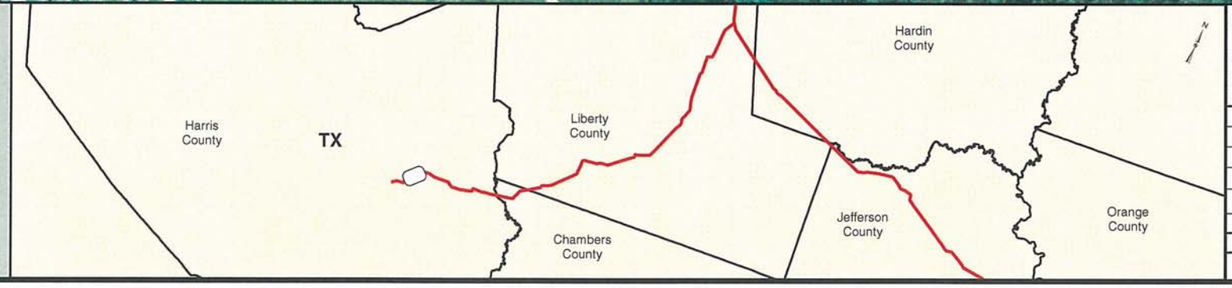

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KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
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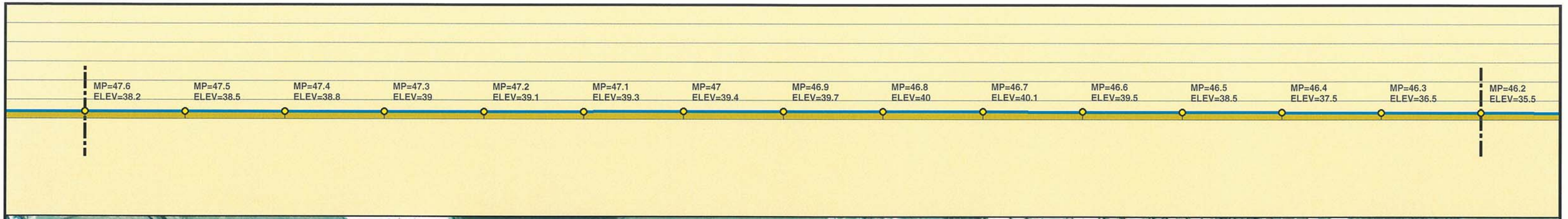
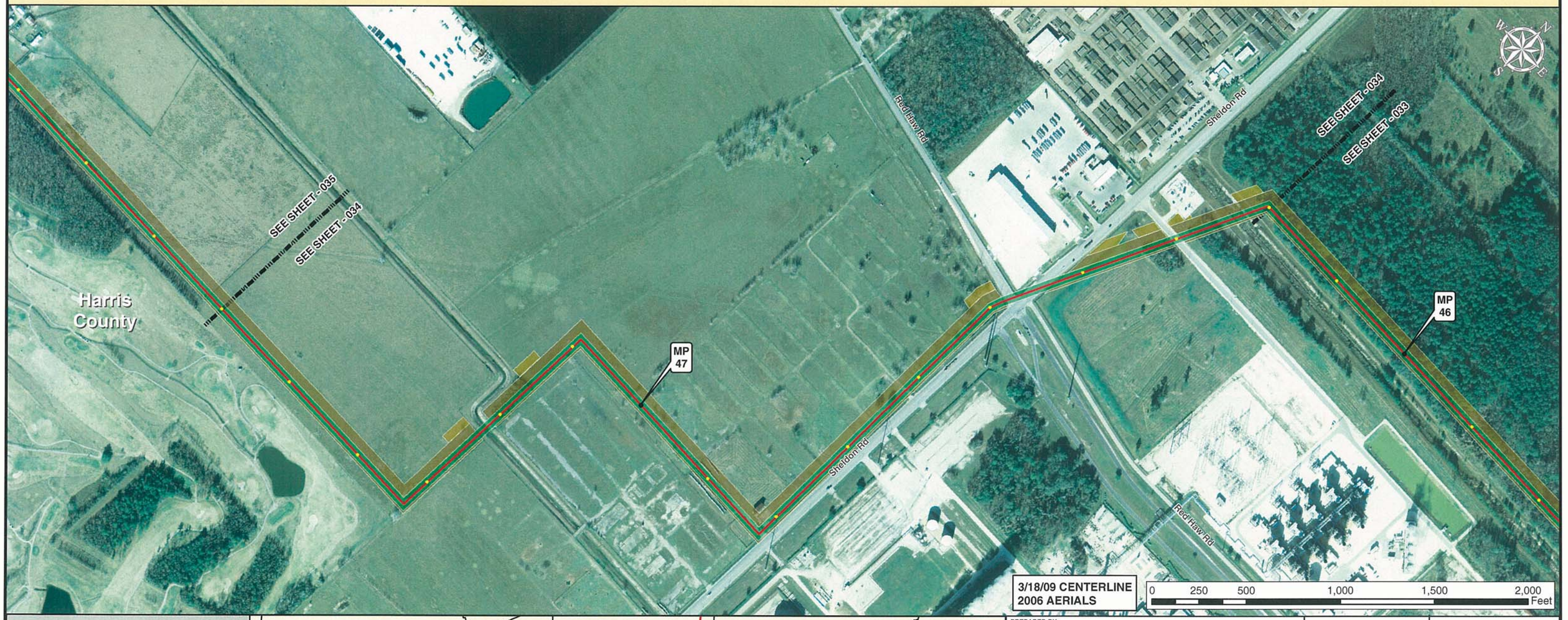
GS	SS	RG	50388X	XL-48 -LA-2002-P- 033-A	033	1





Legend

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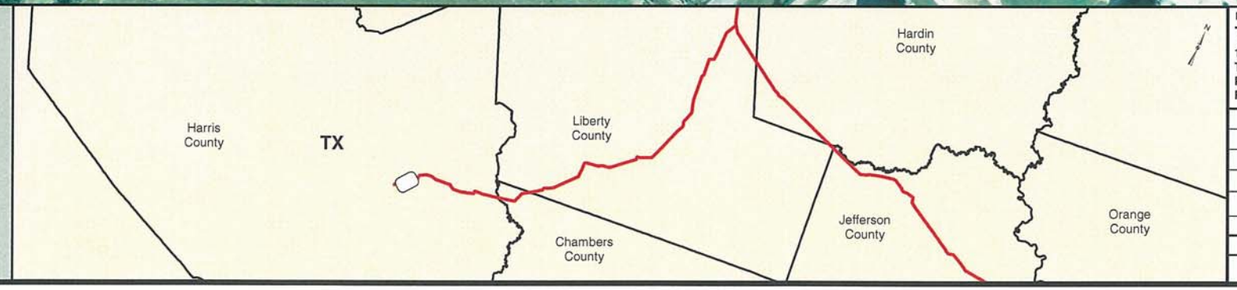

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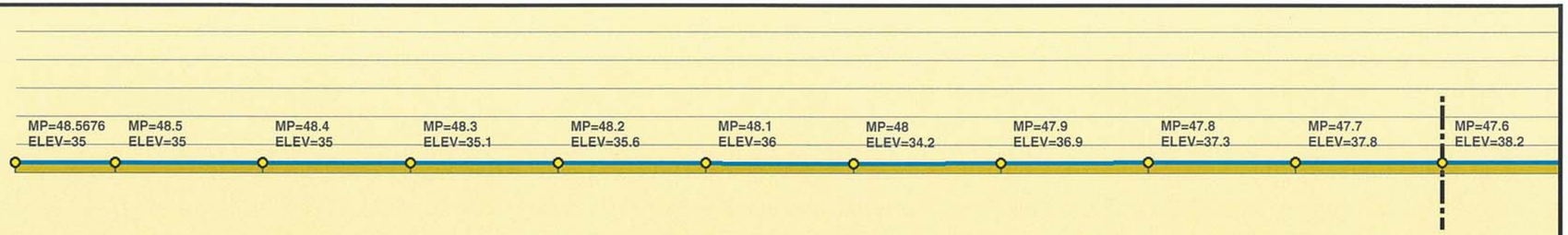
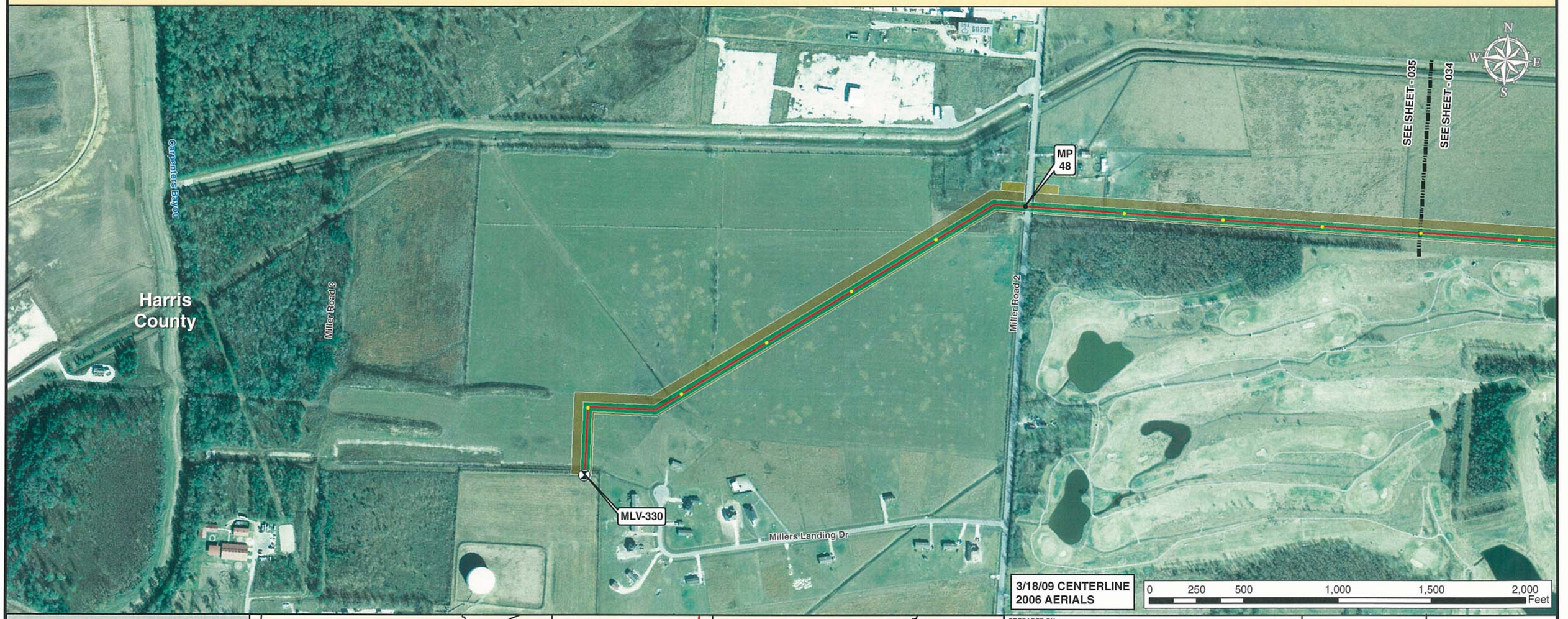
NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1: 6000 ; 1" = 500'

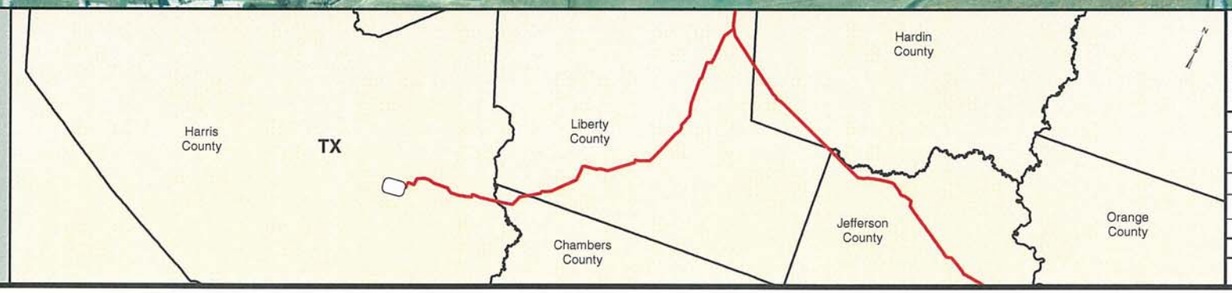
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
GS	SS	RG	50388X	XL-48 -LA-2002-P- 034-A	034	1





Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE



PREPARED BY:
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GS	SS	RG	50388X	XL-48 -LA-2002-P- 035-A	035	1