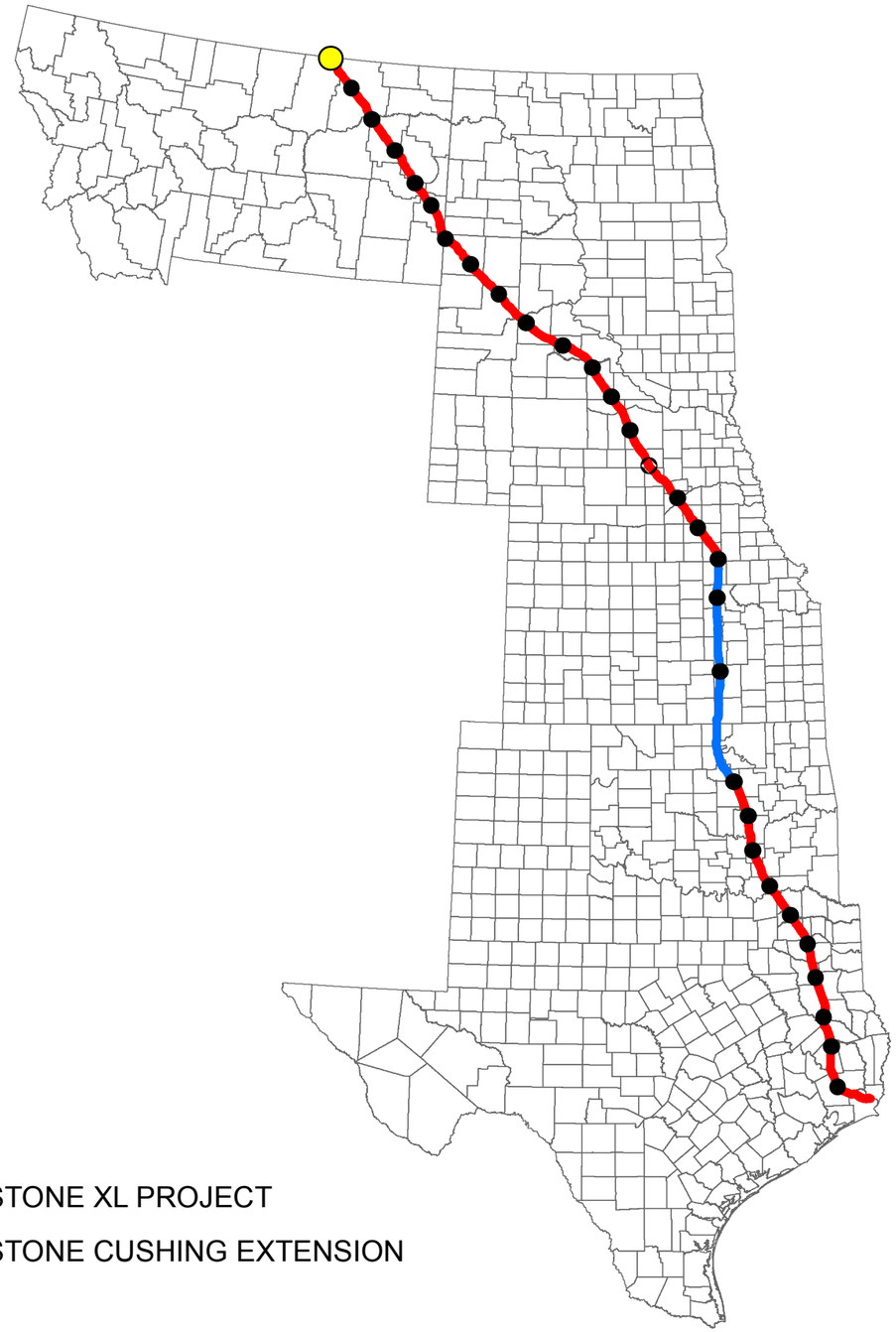


KEYSTONE XL PROJECT

KEYSTONE CUSHING EXTENSION

TransCanada Keystone Pipeline, L.P.
United States Department of State
Keystone XL Project
Appendix B
Powerline Aerial and
USGS Route Sheets
PS-09

TROW ENGINEERING CONSULTANTS, INC.
MAY 19, 2010
REVISION 2

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

Trow

NO.	REVISION	DATE
2	ISSUED FOR DEIS FILING (03.26.10 CL)	5.19.10
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

DRAWING NUMBER	DRAWN BY	CHECKED BY	APPROVED BY
XL-FIPS-ML-2003-P-000	AH	SS	RG

TransCanada
In business to deliver

KEYSTONE XL PROJECT
ROUTE SHEETS

MAP PARAMETERS
PROJECTION: NAD83, UTM: 13N
NTS

PROJECT: 50388X

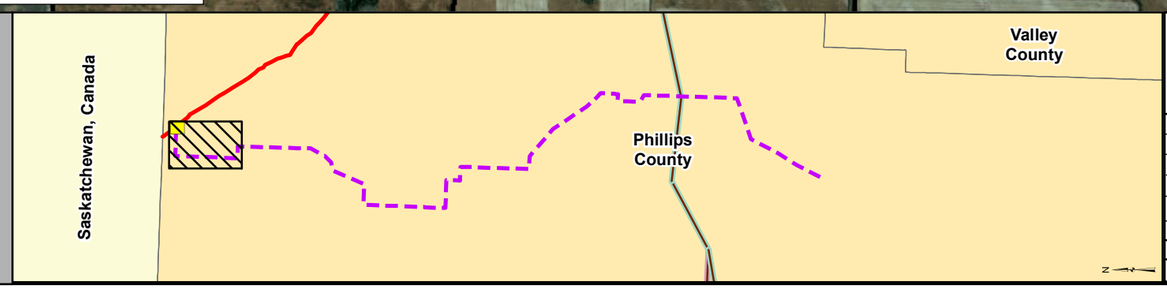
SHEET: COVER SHEET

SEC 6 36N 32E
SEC 36 37N 31E
SEC 25 37N 31E
SEC 24 37N 31E
SEC 13 37N 31E
SEC 12 37N 31E
SEC 1 37N 31E
MP 56
MP 57
MP 58
MP 59
MP 60
MP 61
MP 55
MP 54
MP 1
SEE SHEET - 02
SEE SHEET - 01
SEC 5 36N 32E
SEC 31 37N 32E
SEC 30 37N 32E
SEC 19 37N 32E
SEC 18 37N 32E
SEC 7 37N 32E
SEC 6 37N 32E
Phillips County
SEC 4 36N 32E
SEC 32 37N 32E
SEC 29 37N 32E
SEC 20 37N 32E
SEC 17 37N 32E
SEC 8 37N 32E
SEC 5 37N 32E
SEC 3 36N 32E
SEC 33 37N 32E
SEC 28 37N 32E
SEC 21 37N 32E
SEC 16 37N 32E
SEC 9 37N 32E
SEC 4 37N 32E
PS-09 Phillips
East Fork Whitewater Creek
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
PROJECTION: NAD83, UTM:13N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL-30-ML-2003-P-09-01-A	01 of 10	2

SEC 6 36N 32E
SEC 36 37N 31E
SEC 25 37N 31E
SEC 24 37N 31E
SEC 13 37N 31E
SEC 12 37N 31E
SEC 5 36N 32E
SEC 31 37N 32E
SEC 30 37N 32E
SEC 19 37N 32E
SEC 18 37N 32E
SEC 7 37N 32E
SEC 6 37N 32E
SEC 4 36N 32E
SEC 32 37N 32E
SEC 29 37N 32E
SEC 20 37N 32E
SEC 17 37N 32E
SEC 8 37N 32E
SEC 5 37N 32E
SEC 3 36N 32E
SEC 33 37N 32E
SEC 28 37N 32E
SEC 21 37N 32E
SEC 16 37N 32E
SEC 9 37N 32E
SEC 4 37N 32E

MP 54
MP 55
MP 56
MP 57
MP 58
MP 59
MP 60
MP 61
MP 1

SEE SHEET - 02
SEE SHEET - 01

Phillips County

PS-09 Phillips

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
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- Section Line

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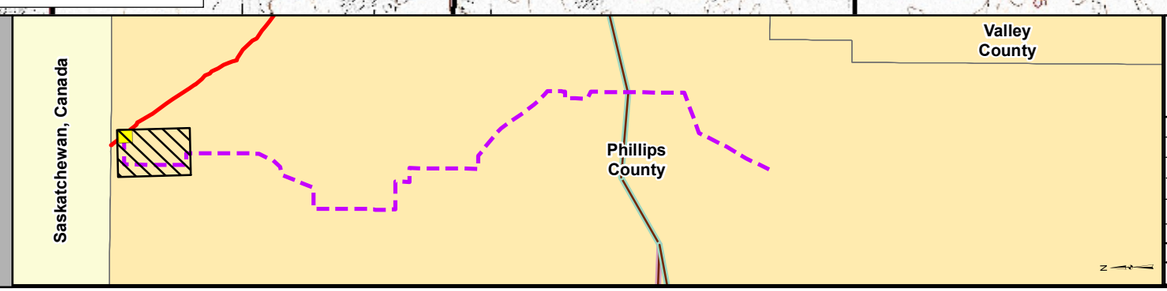

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TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

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AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-01 -Q	01 of 10	2

SEC 36
36N 31E

SEC 25
36N 31E

East Fork Whitew

SEC 19
36N 32E

SEC 18
36N 32E

SEC 7
36N 32E

SEC 6
36N 32E

SEE SHEET - 04

SEE SHEET - 02

SEC 30
36N 32E

SEC 5
36N 32E

SEC 31
37N 32E

MP 54

SEC 31
36N 32E

SEC 8
36N 32E

MP 53

SEC 17
36N 32E

MP 52

SEC 20
36N 32E

C 6
32E

SEE SHEET - 03

SEE SHEET - 02

MP 51

SEC 32
37N 32E

SEC 29
36N 32E

SEC 4
36N 32E

East Fork Whitewater Creek

Phillips
County

MP 48

MP 50

SEC 9
36N 32E

East Fork Whitewater Creek

MP 49

SEC 32
36N 32E

SEC 16
36N 32E

SEC 5
35N 32E

SEC 21
36N 32E

SEC 3
36N 32E

SEC 28
36N 32E

SEC 10
36N 32E

SEC 33
36N 32E

SEC 15
36N 32E

SEC 4
35N 32E

SEC 22
36N 32E

SEC 27
36N 32E

SEC 2
36N 32E

SEC 11
36N 32E

SEC 14

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
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- Pump Station
- County Line
- Section Line

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Voltage
- Below 230kV
- 230kV - 344kV
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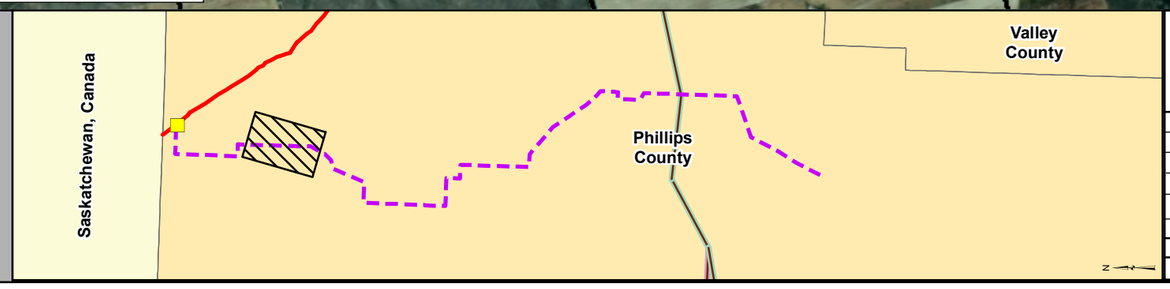

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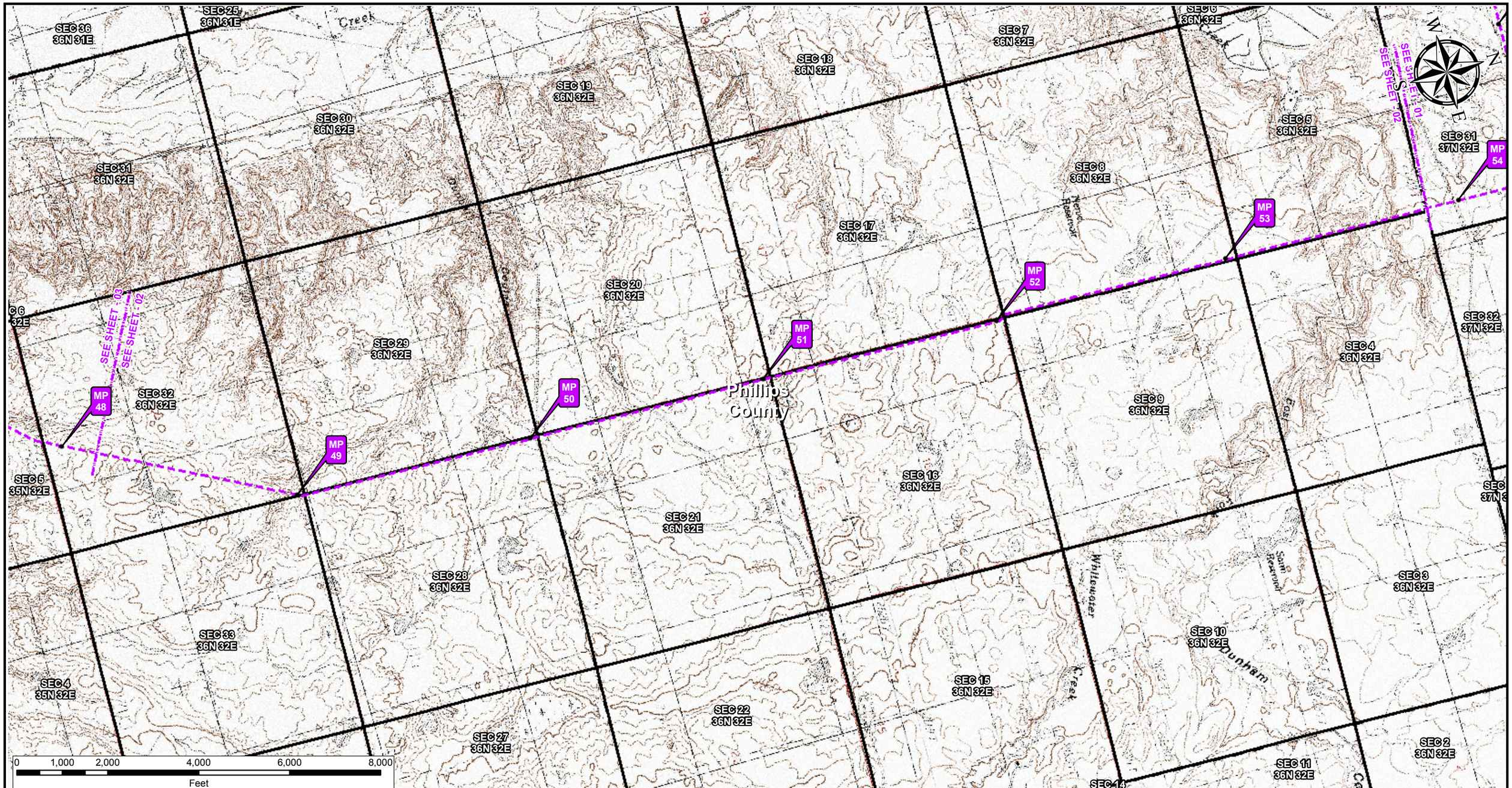
KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
PROJECTION: NAD83, UTM:13N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-02 -A	02 of 10	2



Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
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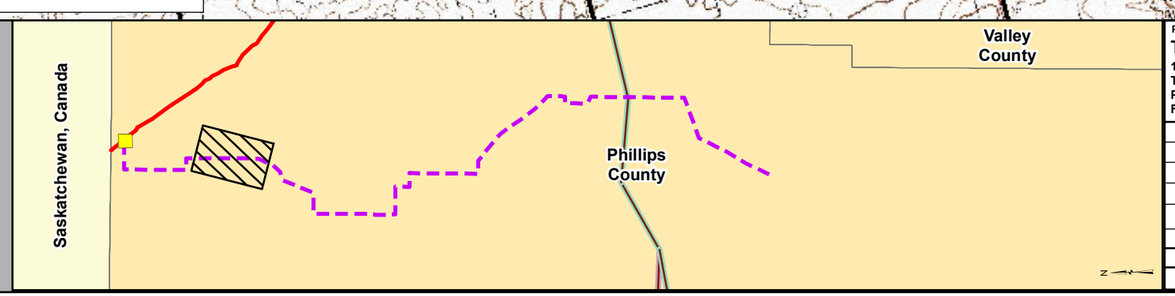

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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

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DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-02 -Q	02 of 10	2

SEC 16 35N 31E
SEC 10 35N 31E
SEC 2 35N 31E
SEC 36 36N 31E
SEC 21 35N 31E
SEC 15 35N 31E
SEC 11 35N 31E
SEC 1 35N 31E
SEC 31 36N 32E
SEC 22 35N 31E
SEC 14 35N 31E
SEC 12 35N 31E
SEC 6 35N 32E
SEC 32 36N 32E
SEC 27 35N 31E
SEC 23 35N 31E
SEC 13 35N 31E
SEC 7 35N 32E
SEC 5 35N 32E
SEC 33 36N 32E
SEC 26 35N 31E
SEC 24 35N 31E
SEC 18 35N 32E
SEC 8 35N 32E
SEC 4 35N 32E
SEC 25 35N 31E
SEC 19 35N 32E
SEC 17 35N 32E
SEC 9 35N 32E
SEC 35 35N 31E
SEC 20

Phillips County

MP 42
MP 43
MP 44
MP 45
MP 46
MP 47
MP 48

SEE SHEET - 03
SEE SHEET - 04
SEE SHEET - 02
SEE SHEET - 05

Burlington Northern/Santa Fe
East Fork Whitewater Creek

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
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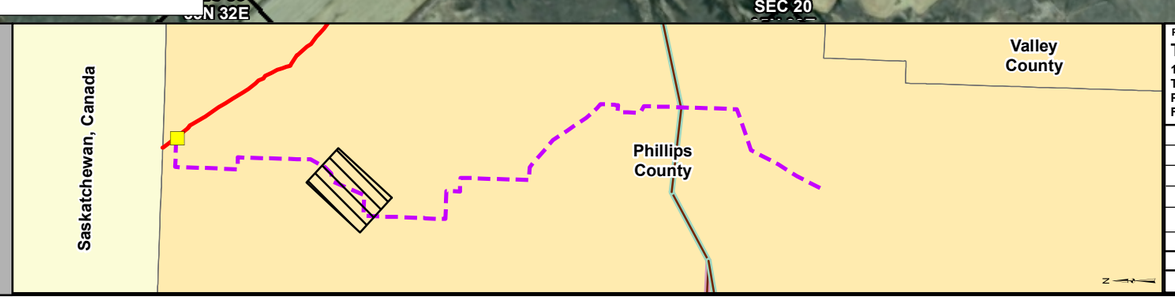

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TransCanada
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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
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SCALE: 1:24000 ; 1"=2000'

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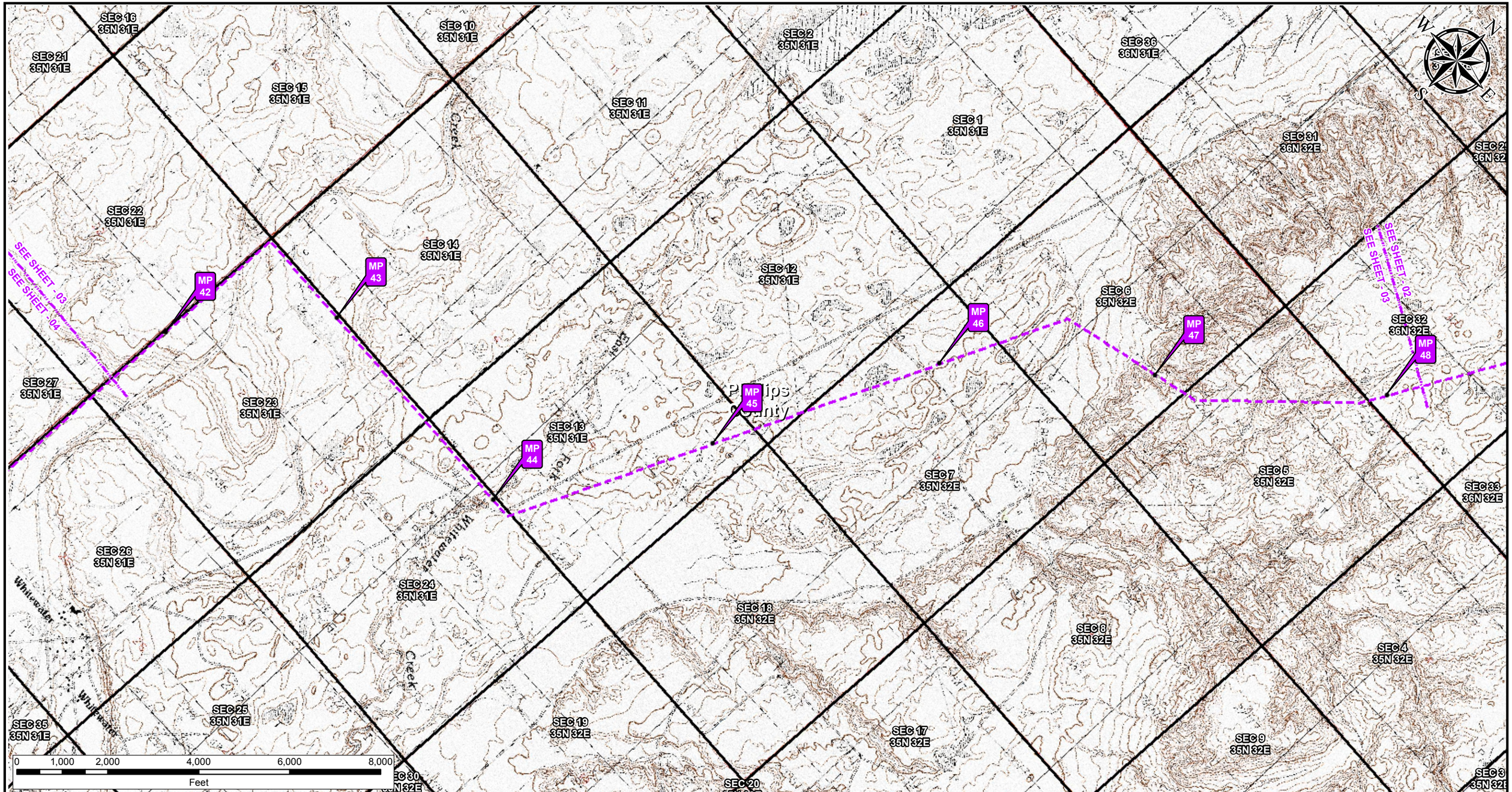
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-03 -A	03 of 10	2



Legend

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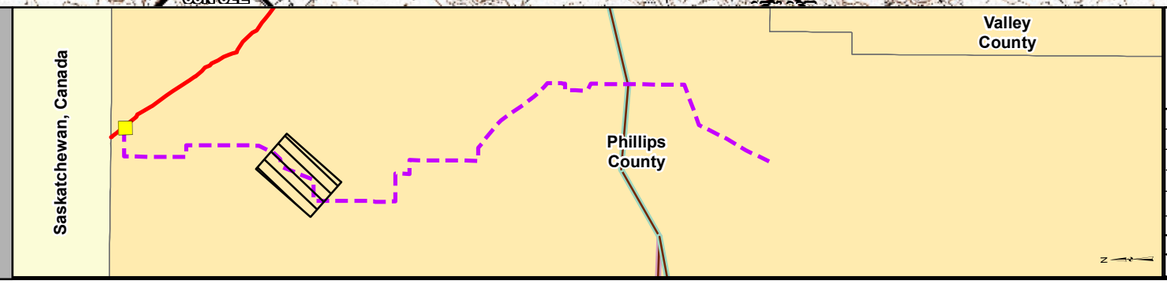

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PHILLIPS COUNTY, MONTANA
PS-09

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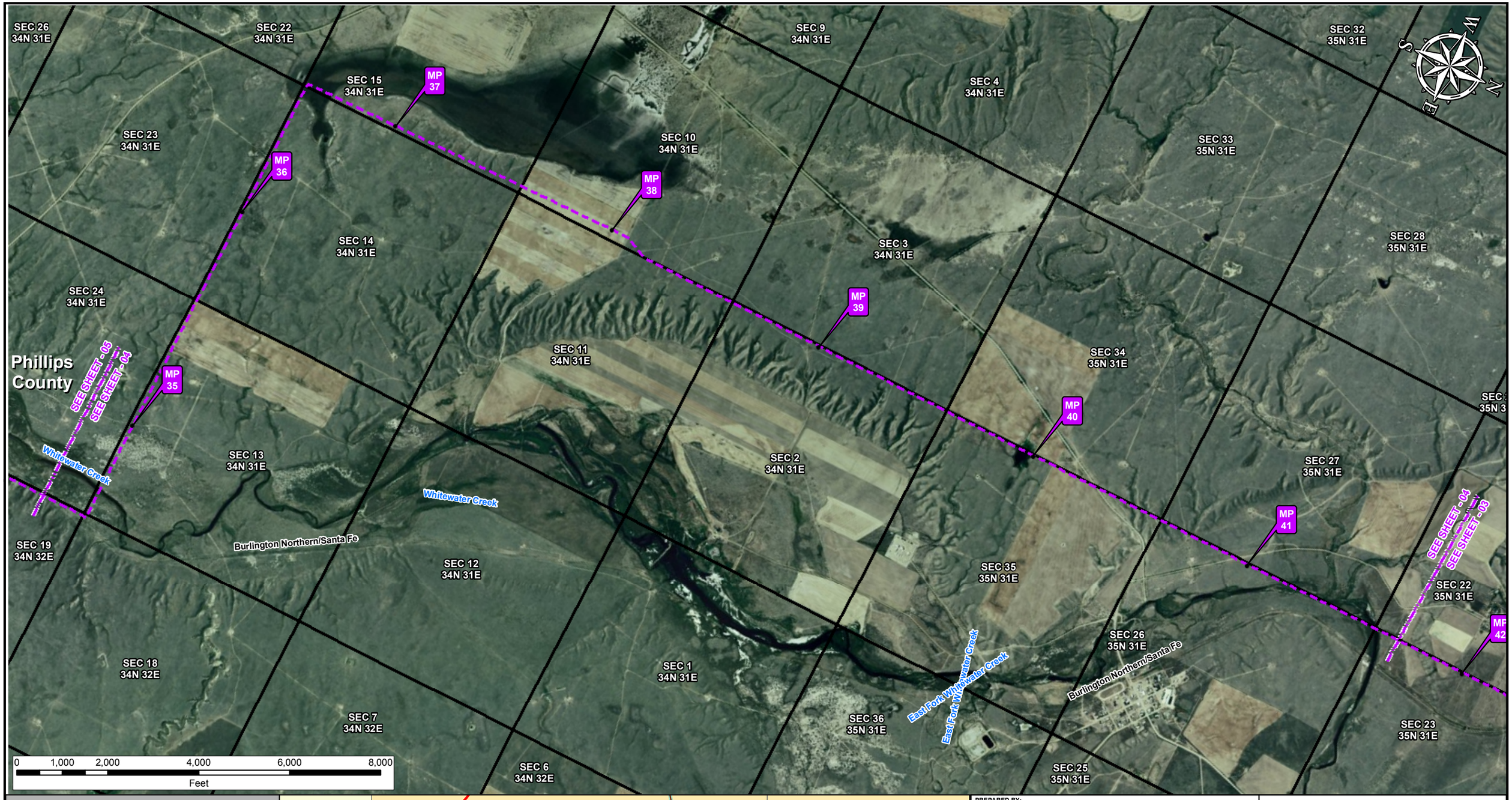

Legend

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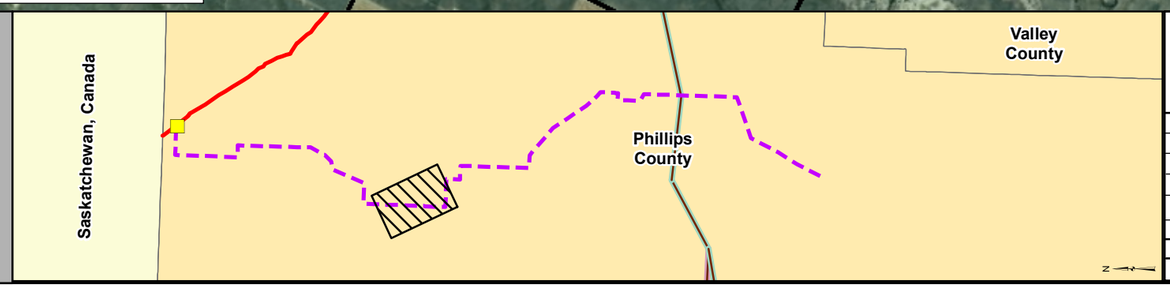

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SEC 26 34N 31E
SEC 22 34N 31E
SEC 15 34N 31E
SEC 9 34N 31E
SEC 32 35N 31E
SEC 4 34N 31E
SEC 23 34N 31E
SEC 10 34N 31E
SEC 33 35N 31E
SEC 14 34N 31E
SEC 3 34N 31E
SEC 28 35N 31E
SEC 24 34N 31E
SEC 11 34N 31E
SEC 34 35N 31E
SEC 13 34N 31E
SEC 2 34N 31E
SEC 27 35N 31E
SEC 19 34N 32E
SEC 12 34N 31E
SEC 35 35N 31E
SEC 22 35N 31E
SEC 18 34N 32E
SEC 1 34N 31E
SEC 26 35N 31E
SEC 7 34N 32E
SEC 36 35N 31E
SEC 23 35N 31E
SEC 6 34N 32E
SEC 25 35N 31E

MP 35
MP 36
MP 37
MP 38
MP 39
MP 40
MP 41
MP 42

Phillips County

SEE SHEET - 05
SEE SHEET - 04
SEE SHEET - 04
SEE SHEET - 03

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
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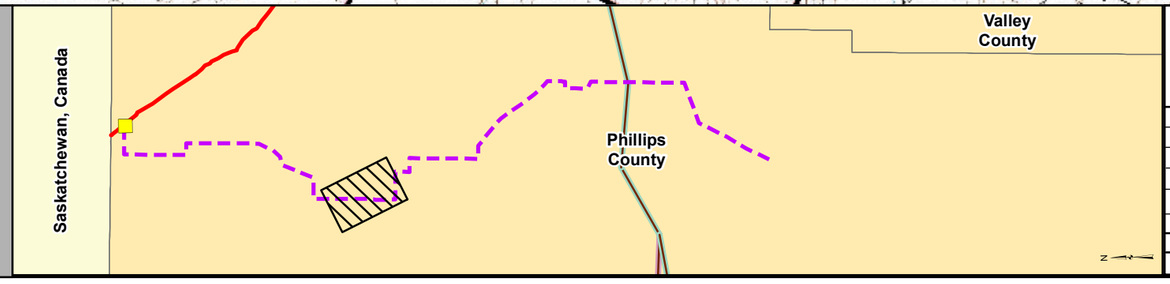

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PHILLIPS COUNTY, MONTANA
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SEC 24 3N 31E
SEC 13 33N 31E
SEC 2 33N 31E
SEC 35 34N 31E
SEC 26 34N 31E
SEC 23 34N 31E
C 19 N 32E
SEC 12 33N 31E
SEC 1 33N 31E
SEC 36 34N 31E
SEC 1 34N 3
SEE SHEET - 06
SEE SHEET - 05
SEC 18 33N 32E
SEC 25 34N 31E
MP 28
SEC 7 33N 32E
SEC 24 34N 31E
SEE SHEET - 05
SEE SHEET - 04
MP 35
Whitewater Creek
MP 29
SEC 6 33N 32E
MP 34
SEC 13 34N 31E
Phillips County
MP 30
SEC 31 34N 32E
SEC 17 33N 32E
MP 31
SEC 30 34N 32E
MP 33
SEC 8 33N 32E
MP 32
SEC 19 34N 32E
SEC 18 34N 32E
SEC 5 33N 32E
SEC 32 34N 32E
SEC 16 33N 32E
SEC 29 34N 32E
Whitewater Creek
SEC 9 33N 32E
Burlington Northern/Santa Fe
SEC 20 34N 32E
SEC 4 33N 32E
SEC 17 34N 32E
SEC 33 34N 32E
0 1,000 2,000 4,000 6,000 8,000
Feet

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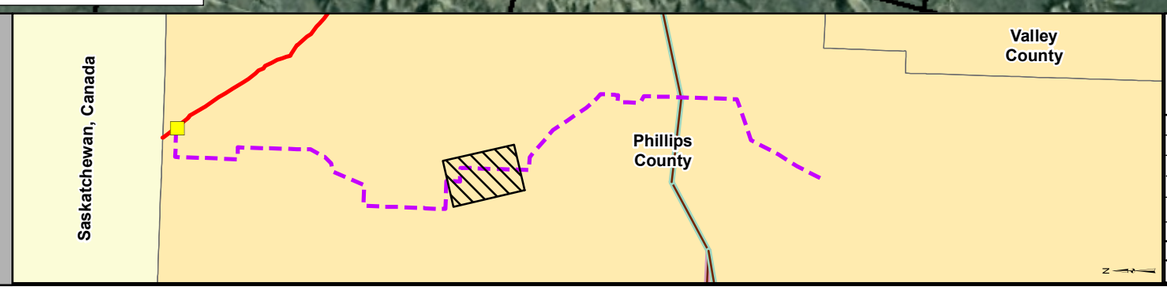

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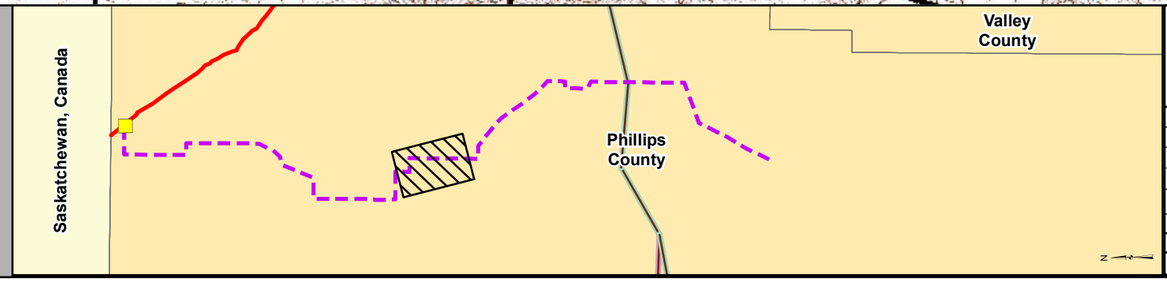
SEC 13 33N 31E
SEC 12 33N 31E
SEC 2 33N 31E
SEC 1 33N 31E
SEC 35 34N 31E
SEC 26 34N 31E
SEC 23 34N 31E
SEC 36 34N 31E
SEC 18 33N 32E
SEE SHEET - 06
SEE SHEET - 05
SEC 7 33N 32E
SEC 25 34N 31E
Coulee
SEC 24 34N 31E
SEE SHEET - 05
SEE SHEET - 04
SEC 13 34N 31E
MP 28
MP 29
MP 30
MP 34
MP 35
SEC 6 33N 32E
Phillips County
SEC 17 33N 32E
SEC 31 34N 32E
SEC 30 34N 32E
MP 33
MP 32
SEC 8 33N 32E
SEC 5 33N 32E
SEC 19 34N 32E
SEC 18 34N 32E
Whitewater
SEC 32 34N 32E
SEC 16 33N 32E
SEC 9 33N 32E
SEC 29 34N 32E
SEC 20 34N 32E
SEC 4 33N 32E
SEC 17 34N 32E
SEC 33 34N 32E
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



PREPARED BY:
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1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida , USA 32308
Phone: 1-850-385-5441
Fax: 1-850-385-5523
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0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
PROJECTION: NAD83, UTM:13N
SCALE: 1:24000 ; 1"=2000'

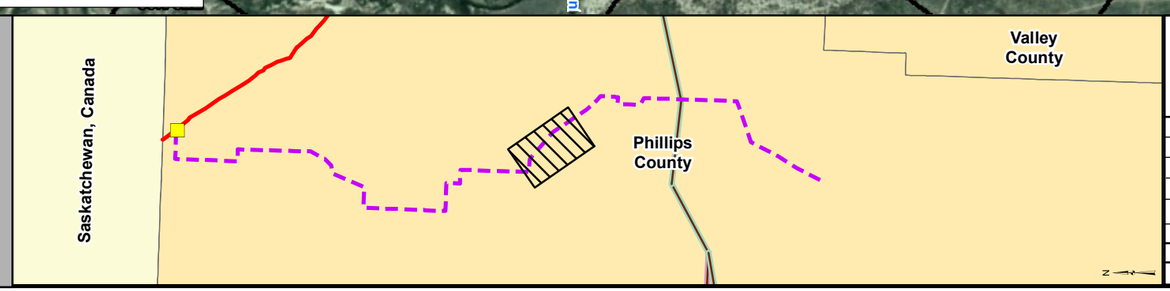
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-05 -Q	05 of 10	2

SEC 10 32N 32E
SEC 3 32N 32E
SEC 32 33N 32E
SEC 30 33N 32E
SEC 24
SEC 11 32N 32E
Milk River
Milk River
SEC 19 33N 32E
SEC 29 33N 32E
SEC 2 32N 32E
SEC 33 33N 32E
SEC 18 33N 32E
SEE SHEET - 08
SEC 12 32N 32E
SEC 20 33N 32E
MP 28
MP 27
SEC 28 33N 32E
SEC 1 32N 32E
SEC 34 33N 32E
Phillips County
SEC 17 33N 32E
SEE SHEET - 07
SEE SHEET - 06
MP 26
SEC 21 33N 32E
MP 25
SEC 27 33N 32E
Whitewater Creek
MP 22
MP 23
MP 24
SEC 35 33N 32E
Whitewater Creek
SEC 8 33N 32E
SEC 6 32N 33E
SEC 16 33N 32E
SEC 22 33N 32E
SEC 26 33N 32E
Burlington Northern/Santa Fe
SEC 9 33N 32E
Burlington Northern/Santa Fe
SEC 36 33N 32E
SEC 15 33N 32E
SEC 5
SEC 23 33N 32E
SEC 10
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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PHILLIPS COUNTY, MONTANA
PS-09

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AH	SS	RG	50388X	XL-30-ML-2003-P-09-06-A	06 of 10	2

SEC 10 32N 32E
SEC 3 32N 32E
SEC 32 33N 32E
SEC 30 33N 32E
SEC 24
SEC 11 32N 32E
SEC 19 33N 32E
SEC 29 33N 32E
SEC 2 32N 32E
SEC 33 33N 32E
SEC 18 33N 32E
SEC 12 32N 32E
SEC 20 33N 32E
SEE SHEET - 05
MP 28
MP 27
SEC 28 33N 32E
SEC 1 32N 32E
SEC 34 33N 32E
Phillips County
SEC 17 33N 32E
SEE SHEET - 07
SEE SHEET - 06
MP 26
SEC 21 33N 32E
MP 25
MP 22
MP 23
MP 24
SEC 27 33N 32E
SEC 8 33N 32E
SEC 35 33N 32E
SEC 6 32N 33E
SEC 16 33N 32E
SEC 22 33N 32E
SEC 26 33N 32E
SEC 9 33N 32E
SEC 36 33N 32E
SEC 15 33N 32E
SEC 5
SEC 23 33N 32E
SEC 10
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
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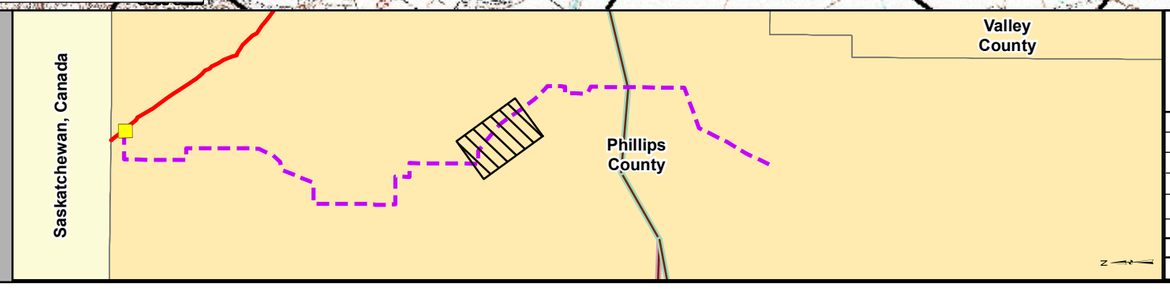

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PHILLIPS COUNTY, MONTANA
PS-09

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SCALE: 1:24000 ; 1"=2000'

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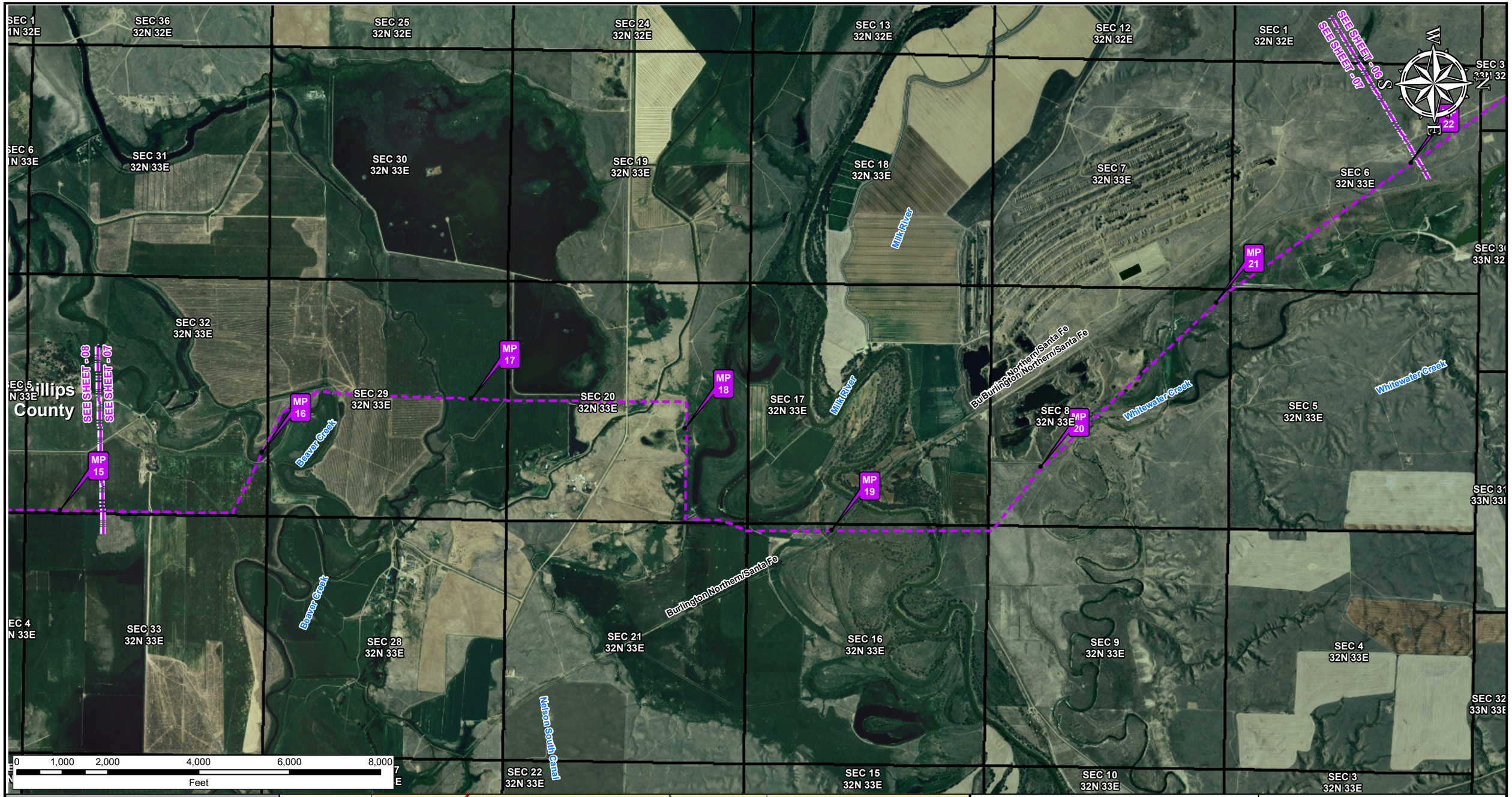
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-06 -Q	06 of 10	2



Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
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- 500kV - 734kV
- 735kV - 999kV
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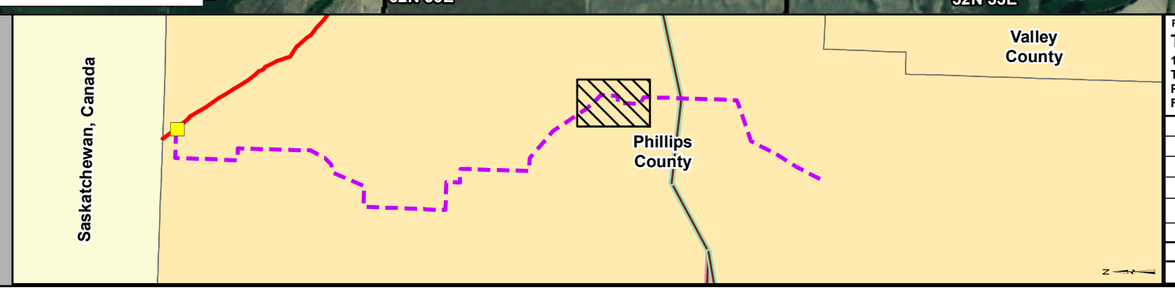
- DC



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PHILLIPS COUNTY, MONTANA
PS-09

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SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-07 -A	07 of 10	2

SEC 1 32N 32E | SEC 36 32N 32E | SEC 25 32N 32E | SEC 24 32N 32E | SEC 13 32N 32E | SEC 12 32N 32E | SEC 1 32N 32E

SEE SHEET - 06
SEE SHEET - 07

SEC 6 32N 33E | SEC 31 32N 33E | SEC 30 32N 33E | SEC 19 32N 33E | SEC 18 32N 33E | SEC 7 32N 33E | SEC 6 32N 33E

SEC 5 32N 33E | SEC 32 32N 33E

SEE SHEET - 08
SEE SHEET - 07

SEC 29 32N 33E | SEC 20 32N 33E | SEC 17 32N 33E | SEC 8 32N 33E | SEC 5 32N 33E

Phillips County

MP 15 | MP 16 | MP 17 | MP 18 | MP 19 | MP 20 | MP 21 | MP 22

Robinson Ranch

SEC 4 32N 33E | SEC 33 32N 33E | SEC 28 32N 33E | SEC 21 32N 33E | SEC 16 32N 33E | SEC 9 32N 33E | SEC 4 32N 33E

SEC 22 32N 33E | SEC 15 32N 33E | SEC 10 32N 33E | SEC 3 32N 33E

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
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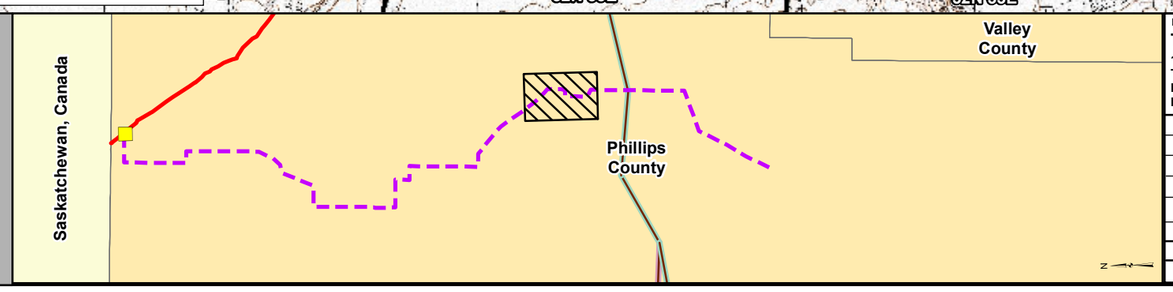
- DC



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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
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SCALE: 1:24000 ; 1"=2000'

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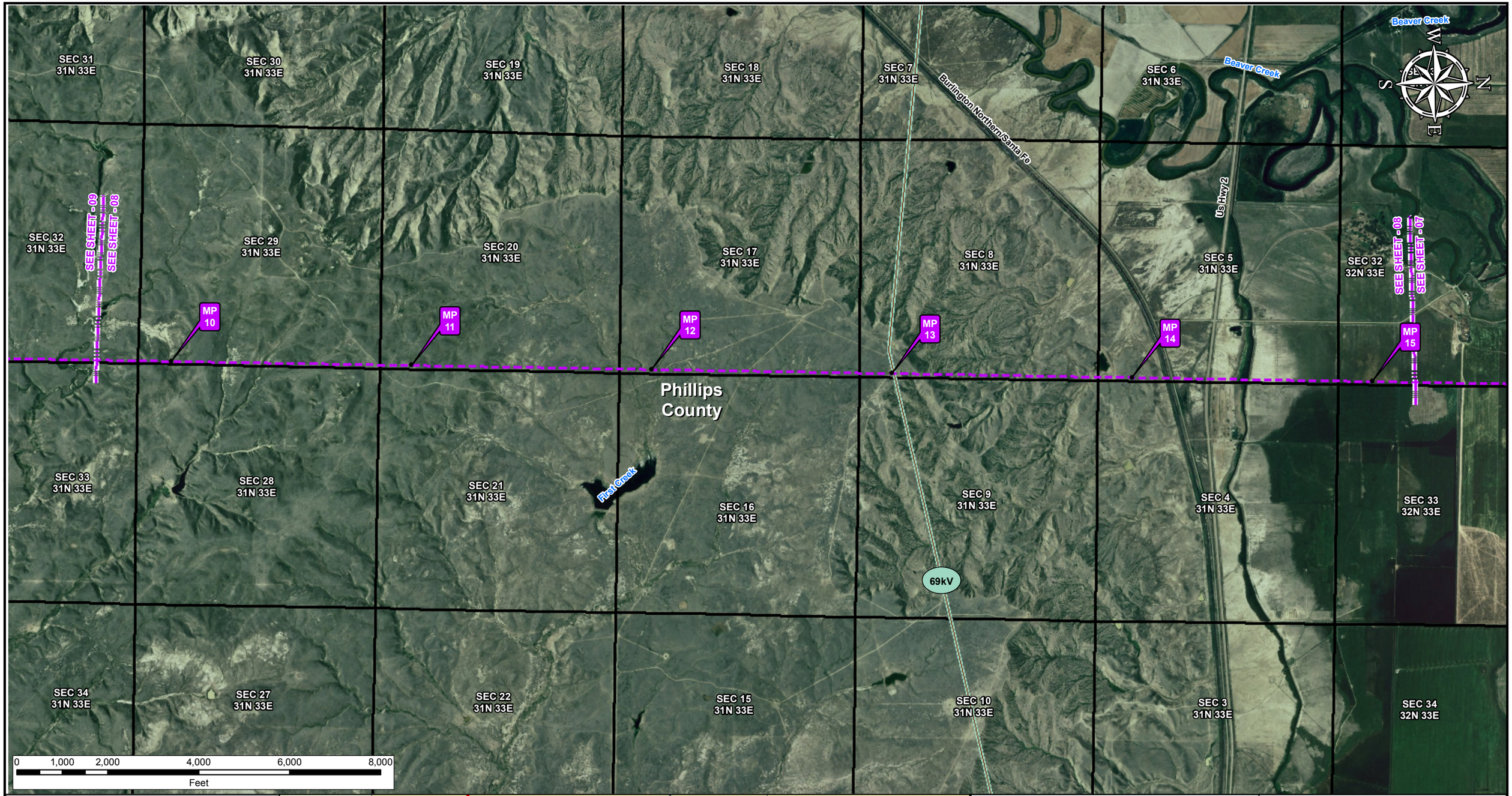
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-07 -Q	07 of 10	2



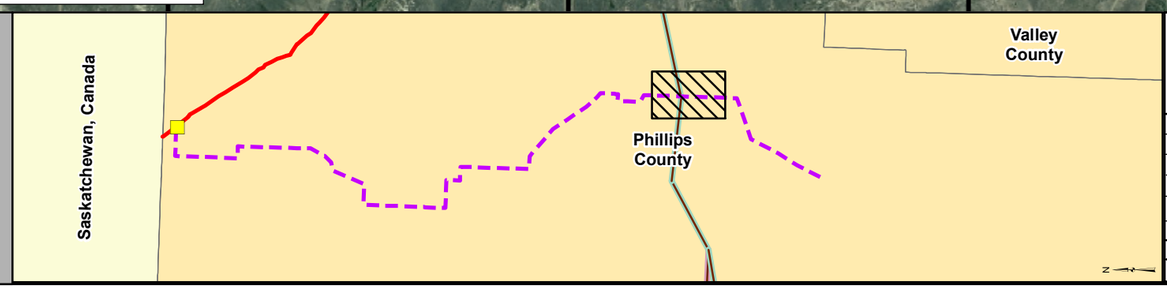
Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines

Voltage

- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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PHILLIPS COUNTY, MONTANA
PS-09

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AH	SS	RG	50388X	XL-30-ML-2003-P-09-08-A	08 of 10	2

SEC 31 31N 33E
SEC 30 31N 33E
SEC 19 31N 33E
SEC 18 31N 33E
SEC 7 31N 33E
SEC 6 31N 33E
SEC 32 31N 33E
SEE SHEET - 09
SEE SHEET - 08
SEC 29 31N 33E
SEC 20 31N 33E
SEC 17 31N 33E
SEC 8 31N 33E
SEC 5 31N 33E
SEC 32 32N 33E
SEE SHEET - 08
SEE SHEET - 07
MP 10
MP 11
MP 12
MP 13
MP 14
MP 15
Phillips County
SEC 33 31N 33E
SEC 28 31N 33E
SEC 21 31N 33E
SEC 16 31N 33E
SEC 9 31N 33E
SEC 4 31N 33E
SEC 33 32N 33E
69kV
SEC 34 31N 33E
SEC 27 31N 33E
SEC 22 31N 33E
SEC 15 31N 33E
SEC 10 31N 33E
SEC 3 31N 33E
SEC 34 32N 33E
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
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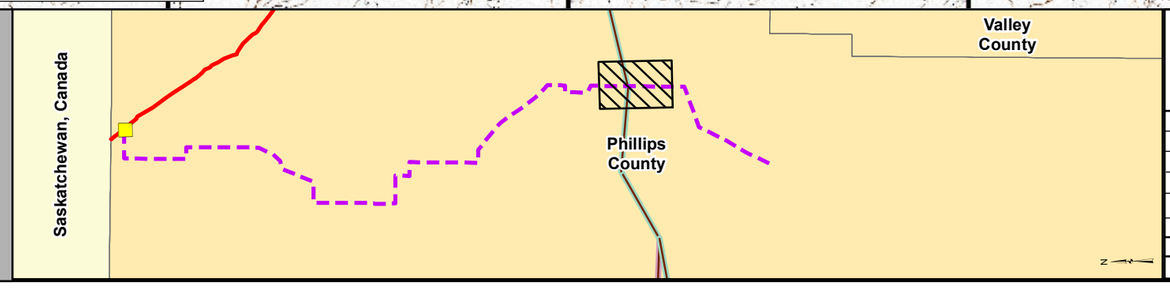

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PHILLIPS COUNTY, MONTANA
PS-09

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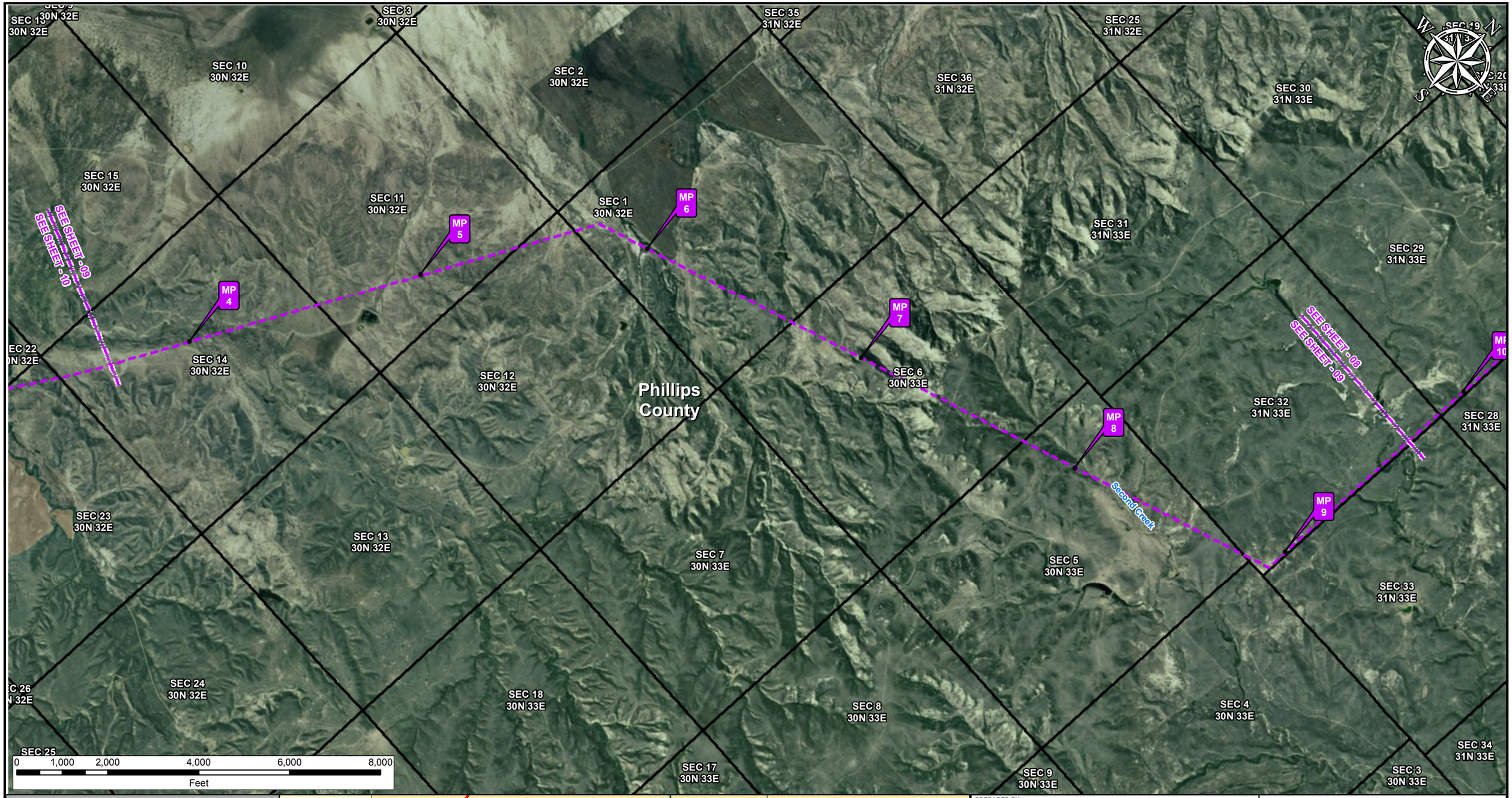
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-08 -Q	08 of 10	2



Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
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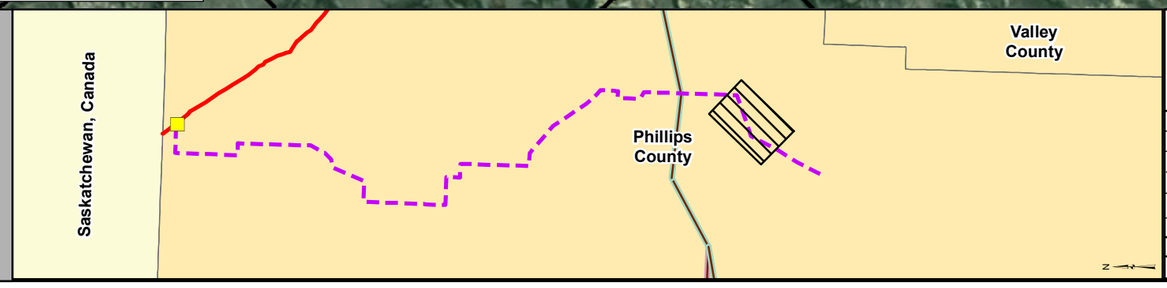
- DC



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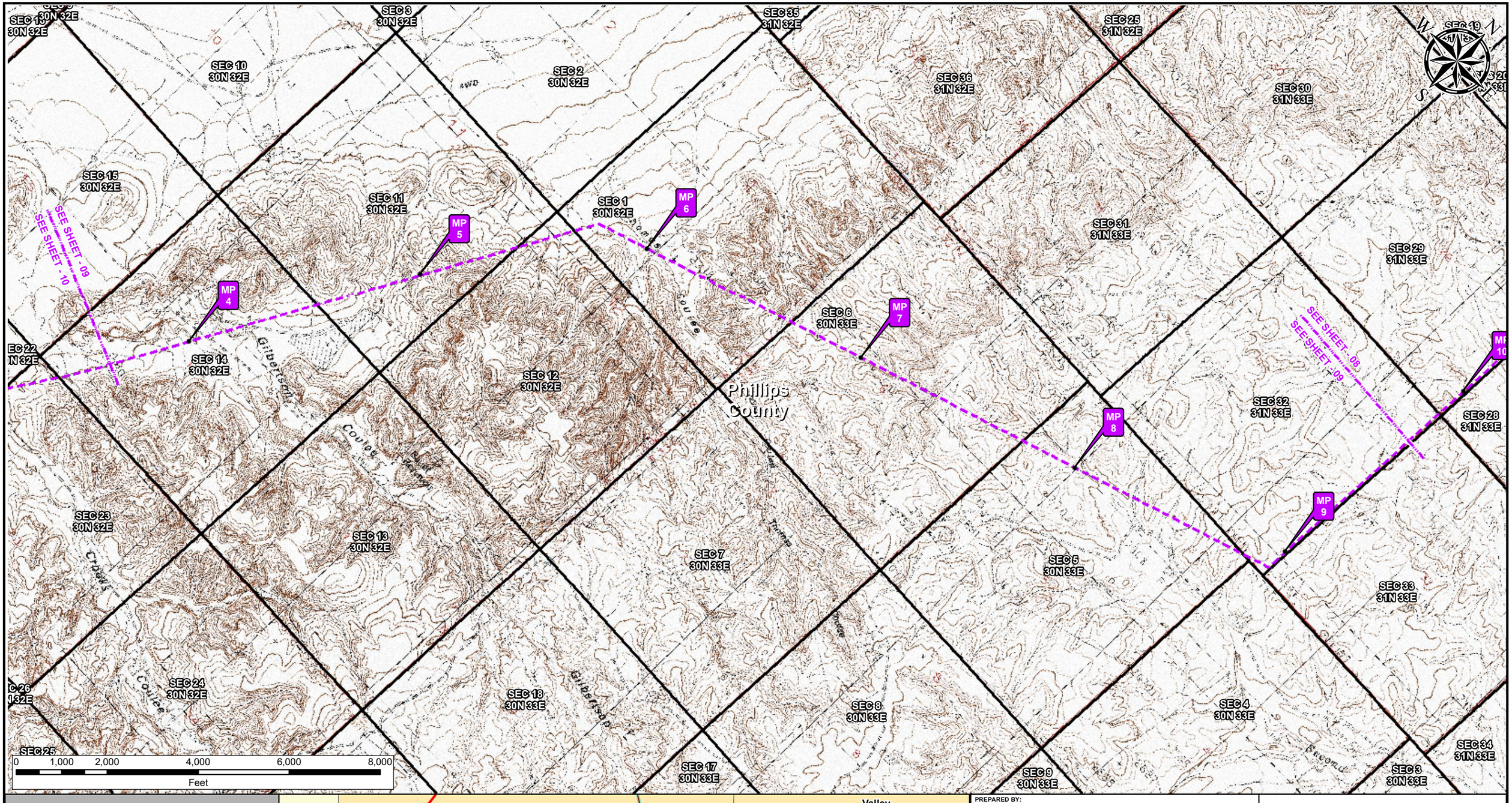

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Electric Lines
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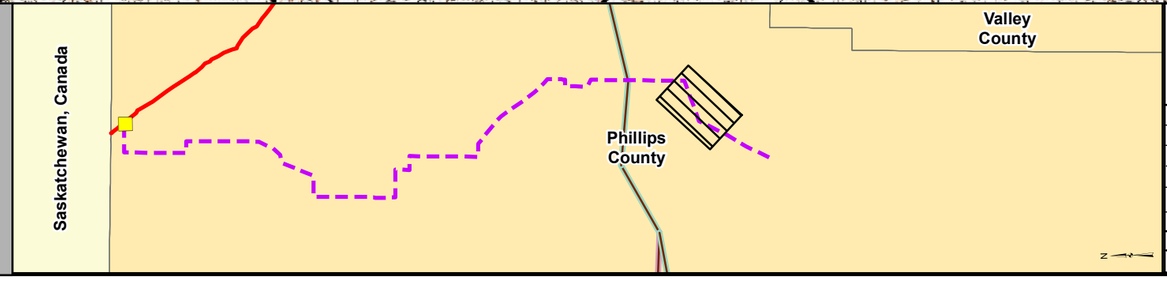

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SEC 1 29N 31E
SEC 31 30N 32E
Beaver Creek
SEC 20 30N 32E
SEC 29 30N 32E
Beaver Creek
SEC 16 30N 32E
SEC 6 29N 32E
Bowdoin Canal
SEC 21 30N 32E
SEC 32 30N 32E
SEC 15 30N 32E
SEE SHEET - 09
SEE SHEET - 10
SEC 7 29N 32E
SEC 28 30N 32E
SEC 5 29N 32E
SEC 22 30N 32E
MP 0
MP 1
MP 2
MP 3
SEC 33 30N 32E
SEC 8 29N 32E
Phillips County
SEC 14 30N 32E
SEC 27 30N 32E
SEC 4 29N 32E
Beaver Creek
SEC 23 30N 32E
SEC 17 29N 32E
SEC 34 30N 32E
SEC 9 29N 32E
SEC 26 30N 32E
SEC 3 29N 32E
SEC 24 30N 32E
SEC 16 29N 32E
SEC 35 30N 32E
SEC 10 29N 32E
SEC 25 30N 32E
SEC 2 29N 32E

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

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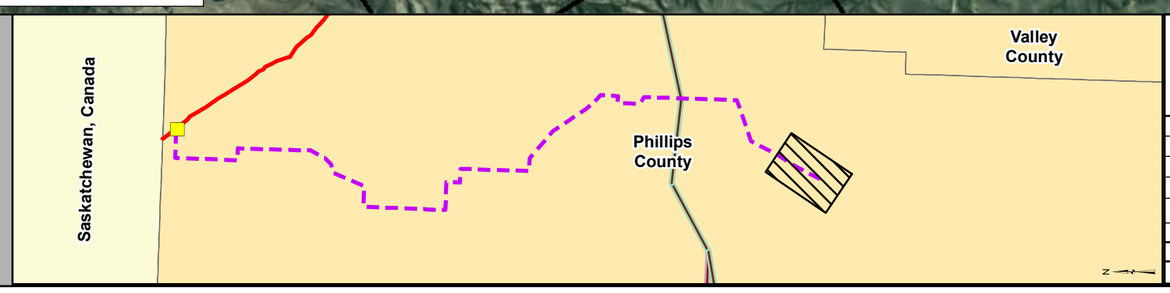

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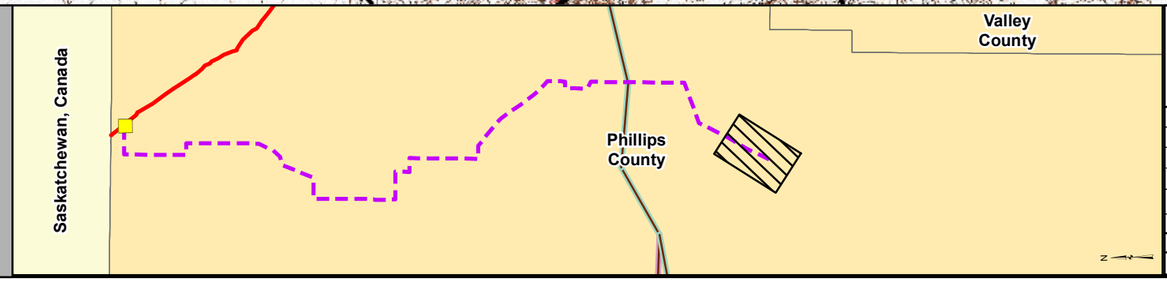
SEC 31 30N 32E
SEC 20 30N 32E
SEC 16 30N 32E
SEC 6 29N 32E
SEC 29 30N 32E
SEC 21 30N 32E
SEC 32 30N 32E
SEC 15 30N 32E
SEC 7 29N 32E
SEC 28 30N 32E
SEC 5 29N 32E
SEC 22 30N 32E
SEE SHEET - 09
SEE SHEET - 10
SEC 33 30N 32E
MP 0
MP 1
MP 2
MP 3
Phillips County
SEC 8 29N 32E
SEC 27 30N 32E
SEC 14 30N 32E
SEC 4 29N 32E
SEC 23 30N 32E
SEC 17 29N 32E
SEC 34 30N 32E
SEC 9 29N 32E
SEC 26 30N 32E
SEC 3 29N 32E
SEC 24 30N 32E
SEC 16 29N 32E
SEC 35 30N 32E
SEC 10 29N 32E
SEC 25 30N 32E
SEC 2 29N 32E
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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NO.	REVISION	DATE
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TransCanada
In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
PHILLIPS COUNTY, MONTANA
PS-09

MAP PARAMETERS
PROJECTION: NAD83, UTM:13N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 30-ML-2003-P- 09-10 -Q	10 of 10	2