

KEYSTONE XL PIPELINE PROJECT

0395-SD-P4-XXX.X-XXX.X-I

KEYSTONE XL PIPELINE PROJECT PIPELINE ROUTE VARIATION FORM	
1	VARIATION TYPE: Refinement: <input checked="" type="checkbox"/> Reroute: <input type="checkbox"/> Footprint: <input type="checkbox"/> Design: <input type="checkbox"/> Centerline: <input checked="" type="checkbox"/> Pump Station: <input checked="" type="checkbox"/> Valve Site: <input type="checkbox"/> CAR: <input type="checkbox"/>
2	LOCATION: Sketch: <input type="text" value="Attached"/> Pictures: <input type="text" value="N/A"/> State: <input type="text" value="SD"/> County: <input type="text" value="Various"/> Quad Map: <input type="text" value="N/A"/> Township: <input type="text" value="Various"/> Range: <input type="text" value="Various"/> Aerial Map: <input type="text" value="See attached map sheets"/> Section: <input type="text" value="Various"/> Centerline: <input type="text" value="8/15/2012"/> MP: <input type="text" value="XXX.X"/> to <input type="text" value="XXX.X"/>
3	REASON FOR ROUTE VARIATION (Please include reason for route variation): <p>This report consists of 7 proposed route refinements. These route refinements are proposed to slightly shift the CL to match the Facility Layout through the Pump Stations. The reason for each route variation is listed in the "Supplemental Info" tab.</p> <p>The route variations have been proposed based on shapefiles received from the Facilities group, as well as pictometry and other aeriels.</p>
	DETAIL ROUTE VARIATION (Please describe route variation in detail): <p>Listed in "Supplemental Info" Tab.</p> <p>No new landowners have been affected by the proposed route variations. The tracts impacted are as follows:</p> <p>RV-0395-01 = 3 tracts impacted: ML-SD-HA-00080.000 (State of South Dakota), ML-SD-HA-00100.000 (Harding County), ML-SD-HA-00130.000 (Harding County).</p> <p>RV-0395-02 = 4 tracts impacted: ML-SD-HA-02515.000 (Mark J. Vroman), ML-SD-HA-02568 (Harding County), ML-SD-HA-02571.000 (TransCanada Keystone Pipeline LP), ML-SD-HA-02572.000 (Mark J. Vroman).</p> <p>RV-0395-03 = 2 tracts impacted: ML-SD-ME-00335.000 (John & Carmen Heidler) and ML-SD-ME-00330.000 (TransCanada Keystone Pipeline, LP).</p> <p>RV-0395-04 = 3 tracts impacted: ML-SD-HK-00450.000 (Mark & Patricia Hanrahan), ML-SD-HK-00460.000 (Seven Blackfoot Ranch, L.L.C.) and ML-SD-HK-00480.000 (Seven Blackfoot Ranch, L.L.C.).</p> <p>RV-0395-05 = 2 tracts impacted: ML-SD-JO-10295.000 (West Rio Land & Cattle LTD) and ML-SD-JO-10310.000 (Gary Ferdig, Trustee of the Gary L. Ferdig Revocable Trust).</p> <p>RV-0395-06 = 3 tracts impacted: ML-SD-TR-10270.000 (Jorgensen Farms, Inc., A South Dakota Corporation), ML-SD-TR-10280 (Debbie L. Moeller AKA Debbie Moeller and Tim Moeller AKA Tim D. Moeller) and ML-SD-TR-10290.000 (The 1995 Hill Revocable Trust, Fern Fast, and Dawn Creasey).</p> <p>RV-0395-07 = 1 tract impacted: ML-SD-TR-12040.000 (Bernard Seegers & Betty Seegers Trustees).</p>
	ADDITIONAL IMPACTS (Please include any additional impacts which may affect cost; crossings, induction bends, etc.): <p>Listed in "Cost Analysis" Tab.</p>
9	Originator: <input type="text" value="Engineering"/> Date: <input type="text" value="11/13/2012"/>
10	Received by: _____ Date: <input type="text" value="11/13/2012"/> Fax to: ?
11	Assigned Tracking Number: <input type="text" value="0395-SD-P4-XXX.X-XXX.X-I"/>
12	Filed by: _____ Date: _____ Fax to: ?

Keystone XL Pipeline - Supplemental Information for Route Variation Report 0395

Prepared: 2012-11-13

RV ID	MP Start	MP End	State	County	Section	Township	Range	Original Length (ft)	Reroute Length (ft)	Change in Length (ft)	Max. Perp. Deviation (ft)	Reason for Variation	Brief Variation Description	Additional Impacts/Comments	Originator
0395-01	288.43	289.00	SD	Harding	016, 021, 022	022N	001E	3,028	3,028	0.57	0.87	To shift CL slightly to match the facility layout through PS-15 (Harding).	Route variation starts near MP 288 and deviates ~10" southeast from CL. It continues in this direction for ~19 ft. Then the reroute turns further southeast and extends for ~3,009 ft. before rejoining the current CL near MP 289.		Engineering
0395-02	336.81	337.44	SD	Harding	024, 025	017N	006E	3,324	3,322	-1.19	1.91	To shift CL slightly to match the facility layout through PS-16 (Buffalo).	Route variation starts near MP 336.8 and deviates ~20" south from current CL. It continues paralleling the current CL for ~3,312 ft., then it turns slightly southeast and extends for ~11 ft. to rejoin the current CL near MP 337.4.		Engineering
0395-03	391.35	391.54	SD	Meade	022	011N	013E	1,019	1,019	-0.07	0.20	To shift CL slightly to match the facility layout through PS-17 (Faith).	Route variation starts near MP 391.4 and deviates ~1.5" southeast from current CL. It continues in this direction for ~10 ft., then it turns slightly east, thus paralleling the current CL. It continues in this direction for ~1,010 ft. prior to rejoining the current CL near MP 391.5.		Engineering
0395-04	444.53	444.70	SD	Haakon	022, 023	005N	019E	926	926	0.39	0.00	To shift CL slightly to match the facility layout through PS-18 (Haakon).	Route variation starts near MP 444.5 and deviates ~8" southeast from current CL. It continues in this direction for ~20 ft., then it turns slightly east, thus paralleling the current CL. It continues in this direction for ~906 ft. before it rejoins the current CL near MP 444.7.		Engineering
0395-05	500.31	500.84	SD	Jones	001, 002	001S	027E	2,771	2,778	6.59	12.00	To shift CL slightly to match the facility layout through PS-19 (Murdo).	Route variation starts near MP 500.3 and deviates ~8.5" southeast from current CL. It continues in this direction for ~110 ft. The reroute continues by turning east, thus intersecting the current CL. It continues in this direction for ~1,453 ft. Then it turns southeast and extends for ~1,215 ft. to rejoin the current CL near MP 500.8.		Engineering
0395-06	550.56	551.38	SD	Tripp	031, (006)	102N, (101N)	077W	4,299	4,305	6.05	1.04	To shift CL slightly to match the facility layout through PS-20 (Winner).	Route variation starts near MP 550.6 and deviates ~6.5" southwest of current CL. It extends in this direction for ~30 ft. Then it turns southeast, thus paralleling the current CL. The reroute extends in this direction for ~4,293 ft. Finally, the proposed route variation turns east for ~9 ft. to rejoin the current CL near MP 551.4.		Engineering
0395-07	598.71	598.98	SD	Tripp	26	095N	074W	1,433	1,433	0.00	0.03	To shift CL slightly to match the facility layout through PS-21 (Colome).	Route variation starts near MP 598.8 and deviates ~10" southwest thus paralleling the current CL for ~1,433 ft. prior to rejoining it near MP 598.9.		Engineering

RV ID	Civil Survey Complete?	Civil Survey Needed (ft)	Moves Pump Station?	Moves Valve Site?	In Co-located Area?	Does route variation impact ABB areas?	Biological Survey Complete for Existing Corridor?	Cultural Survey Complete for Existing Corridor?	Biological Survey Complete for Proposed Corridor?	Cultural Survey Complete for Proposed Corridor?	Estimated Length Requiring new Environmental Surveys (ft)	Number of New Landowners impacted by reroute	Number of Landowners on current route impacted by reroute	Is the affected landowner a possible condemnation?	Number of tracts purchased on original route.	Does proposed route variation impact Tribal Lands?	Does proposed route variation impact any Federal/State Lands?
0395-01	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	2		0	NO	YES
0395-03	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	3		0	NO	NO
0395-04	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	2		0	NO	NO
0395-05	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	2		0	NO	NO
0395-06	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	3		0	NO	NO
0395-07	NO	0	NO	NO	NO	NO	Yes	Yes	Yes	Yes	0	0	1		0	NO	NO

Keystone XL Pipeline - Cost Analysis for Route Variation Report 0395

Prepared: 2012-11-13

RV ID	Additional length (ft)	Cost \$360/ft	Additional length of wetland construction (ft)	Cost \$195/ft	Additional length of side hill construction (ft)	Cost \$19/ft	Additional bore length (ft)	Cost \$540/ft	Additional Waterbody crossings	Cost (\$77,250/EA btw 10' - 19') (\$32,500/EA < 10')	Cost of Environmental survey (\$5,300/mile)	Cost of Civil survey (\$5,000/mile)	Approximate cost for land purchased on current centerline	Miscellaneous cost for additional impacts	Total Cost
0395-01	0.57	\$ 204.35	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ 204.35
0395-02	-1.19	\$ (428.40)	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ (428.40)
0395-03	-0.07	\$ (24.71)	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ (24.71)
0395-04	0.39	\$ 140.45	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ 140.45
0395-05	6.59	\$ 2,373.30	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ 2,373.30
0395-06	6.05	\$ 2,177.20	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ 2,177.20
0395-07	0.00	\$ (0.17)	0	\$ -	0	\$ -		\$ -	0	\$ -	\$ -		\$ -		\$ (0.17)

Overall Estimated Costs of Routes Variations= \$ 4,442.02

Keystone XL Pipeline - Approval form for Route Variation Report 0395

Prepared: 2012-11-13

RV ID		0395-01	0395-02	0395-03	0395-04	0395-05	0395-06	0395-07
LAND (TransCanada) Tina Hall	Approval (Y/N)	Y	Y	Y	Y	Y	Y	Y
	Comments	11-27-12	11-27-12	11-27-12	11-27-12	11-27-12	11-27-12	11-27-12
	Signature	Tina Hall	Tina Hall	Tina Hall	Tina Hall	Tina Hall	Tina Hall	Tina Hall
ENGINEERING (TransCanada) Meera Kothari	Approval (Y/N)	Y	Y	Y	Y	Y	Y	Y
	Comments	11/25/12	11/25/12	11/25/12	11/25/12	11/25/12	11/25/12	11/25/12
	Signature	Meera Kothari	Meera Kothari	Meera Kothari	Meera Kothari	Meera Kothari	Meera Kothari	Meera Kothari
ENGINEERING (exp) Kevin McGlynn	Approval (Y/N)							
	Comments							
	Signature							
ENVIRONMENTAL (TransCanada) Sandra Barnett	Approval (Y/N)	Y	Y	Y	Y	Y	Y	Y
	Comments	12-07-12	12-07-12	12-07-12	12-07-12	12-07-12	12-07-12	12-07-12
	Signature	Sandra Barnett	Sandra Barnett	Sandra Barnett	Sandra Barnett	Sandra Barnett	Sandra Barnett	Sandra Barnett
FACILITIES (TransCanada) Sandra Gigovic	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - MONTANA (TransCanada) Alan Lietz	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - SOUTH DAKOTA (TransCanada) James Odom	Approval (Y/N)	Y	Y	Y	Y	Y	Y	Y
	Comments	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12
	Signature	James Odom	James Odom	James Odom	James Odom	James Odom	James Odom	James Odom
PROJECT MANAGEMENT - NEBRASKA (TransCanada) Robert Bradley	Approval (Y/N)							
	Comments							
	Signature							
KEYSTONE XL MANAGER (TransCanada) Steve Marr	Approval (Y/N)							
	Comments							
	Signature							

Keystone XL Pipeline - Approval form for Route Variation Report 0395

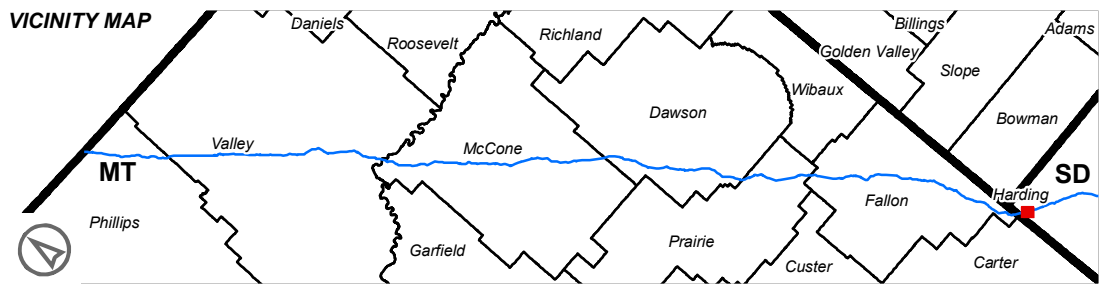
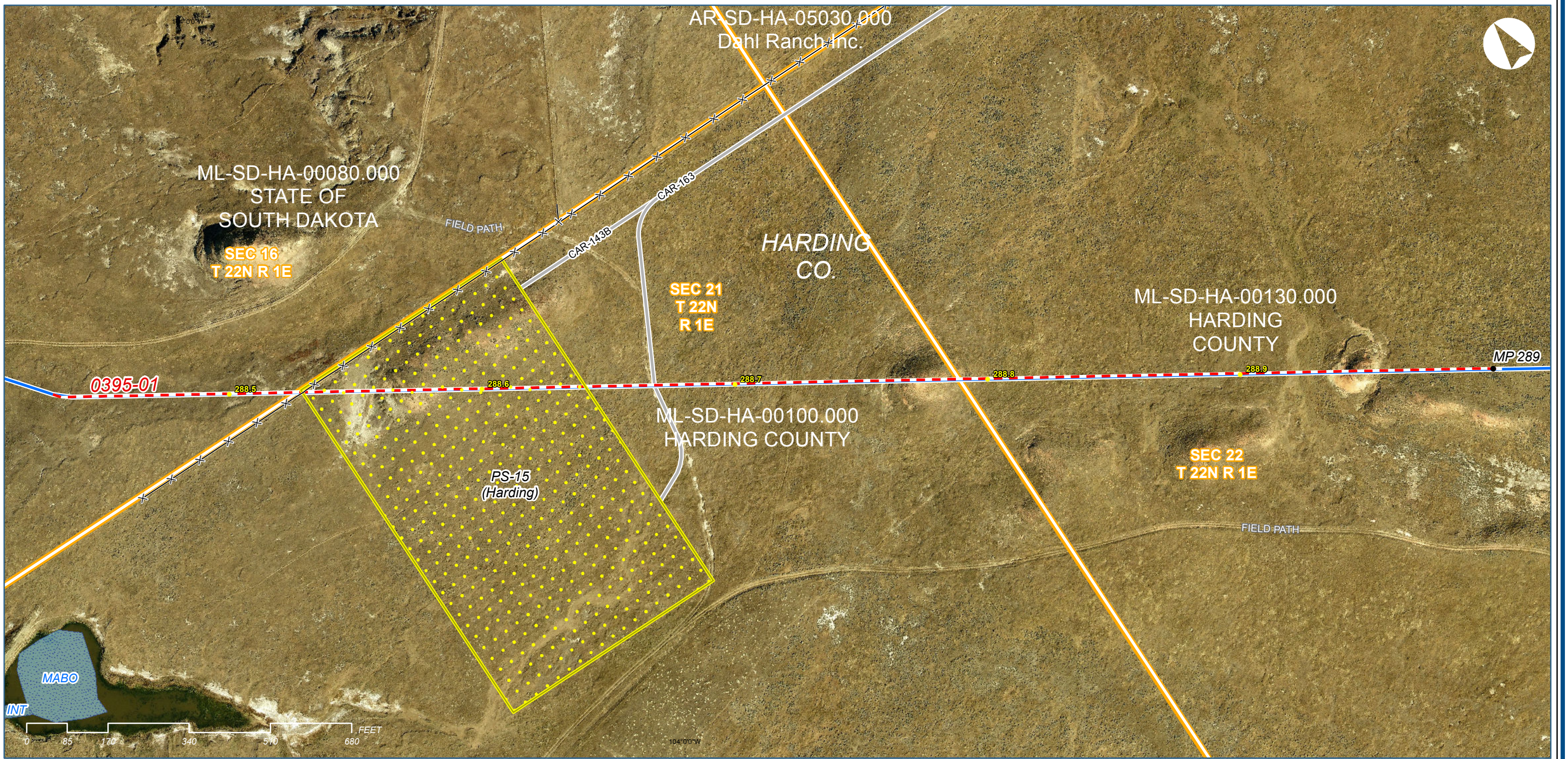
Prepared: 2012-11-13

RV ID		0395-01	0395-02	0395-03	0395-04	0395-05	0395-06	0395-07
LAND (TransCanada) Tina Hall	Approval (Y/N)							
	Comments							
	Signature							
ENGINEERING (TransCanada) Meera Kothari	Approval (Y/N)							
	Comments							
	Signature							
ENGINEERING (exp) Kevin McGlynn	Approval (Y/N)	(Yes)	Yes	Yes	Yes	Yes	Yes	Yes
	Comments							
	Signature	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12	<i>KM</i> 12/21/12
ENVIRONMENTAL (TransCanada) Sandra Barnett	Approval (Y/N)							
	Comments							
	Signature							
FACILITIES (TransCanada) Sandra Gigovic	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - MONTANA (TransCanada) Alan Lietz	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - SOUTH DAKOTA (TransCanada) James Odom	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - NEBRASKA (TransCanada) Robert Bradley	Approval (Y/N)							
	Comments							
	Signature							
KEYSTONE XL MANAGER (TransCanada) Steve Marr	Approval (Y/N)							
	Comments							
	Signature							

Keystone XL Pipeline - Approval form for Route Variation Report 0395

Prepared: 2012-11-13

RV ID		0395-01	0395-02	0395-03	0395-04	0395-05	0395-06	0395-07
LAND (TransCanada) Tina Hall	Approval (Y/N)							
	Comments							
	Signature							
ENGINEERING (TransCanada) Meera Kolhari	Approval (Y/N)							
	Comments							
	Signature							
ENGINEERING (exp) Kevin McGlynn	Approval (Y/N)							
	Comments							
	Signature							
ENVIRONMENTAL (TransCanada) Sandra Barnett	Approval (Y/N)							
	Comments							
	Signature							
FACILITIES (TransCanada) Sandra Gigovic	Approval (Y/N)	Y	Y	Y	Y	Y	Y	Y
	Comments	Jan 9, 2013	Jan 9, 2013	Jan 9, 2013	Jan 9, 2013	Jan 9, 2013	Jan 9, 2013	Jan 9, 2013
	Signature	Gigovic SA	Gigovic SA	Gigovic SA	Gigovic SA	Gigovic SA	Gigovic SA	Gigovic SA
PROJECT MANAGEMENT - MONTANA (TransCanada) Alan Lietz	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - SOUTH DAKOTA (TransCanada) James Odom	Approval (Y/N)							
	Comments							
	Signature							
PROJECT MANAGEMENT - NEBRASKA (TransCanada) Robert Bradley	Approval (Y/N)							
	Comments							
	Signature							
KEYSTONE XL MANAGER (TransCanada) Steve Marr	Approval (Y/N)							
	Comments							
	Signature							



LEGEND

- .1 MILE POST
- MILEPOST
- KEYSTONE XL CL (2012-08-15)
- PROPOSED ROUTE VARIATION
- ACCESS ROAD
- PUMP STATION
- ⊗ VALVE
- PROPERTY PARCEL
- CULTURAL SITE
- WETLAND
- WATERBODY
- MDEQ 500ft CORRIDOR
- SECTION LINE
- CAB
- FIB
- GAS
- OEL
- OIL
- PL
- TEL
- WAT

KEYSTONE XL PROJECT

Proposed Route Variations: 0394 - 0395

COUNTY:	HARDING	DRAWN BY:	CR
STATE:	MONTANA	CHECKED BY:	JP
REV. NO.:	REVISION	DATE	
0	ISSUED FOR REVIEW.	2012-11-06	

PRELIMINARY

DATE:	2012-11-06	PROJECTION:	NAD83 UTM14 N
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PREPARED BY:

exp Energy Services Inc.

t: +1.850.385.5441 | f: +1.850.385.5523
1300 Metropolitan Blvd.
Tallahassee, FL 32308
U.S.A.

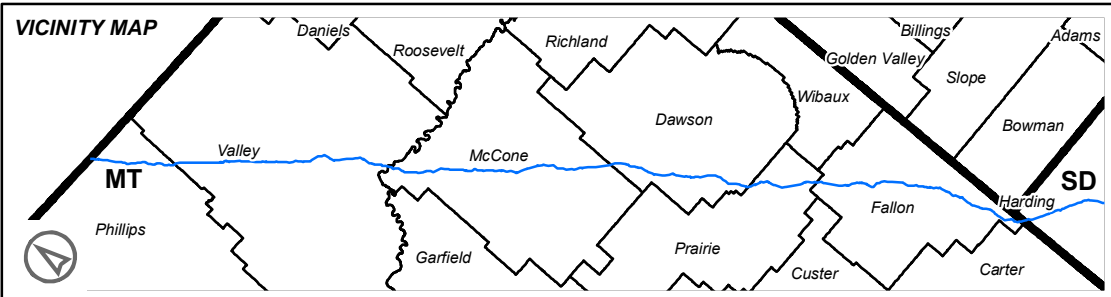
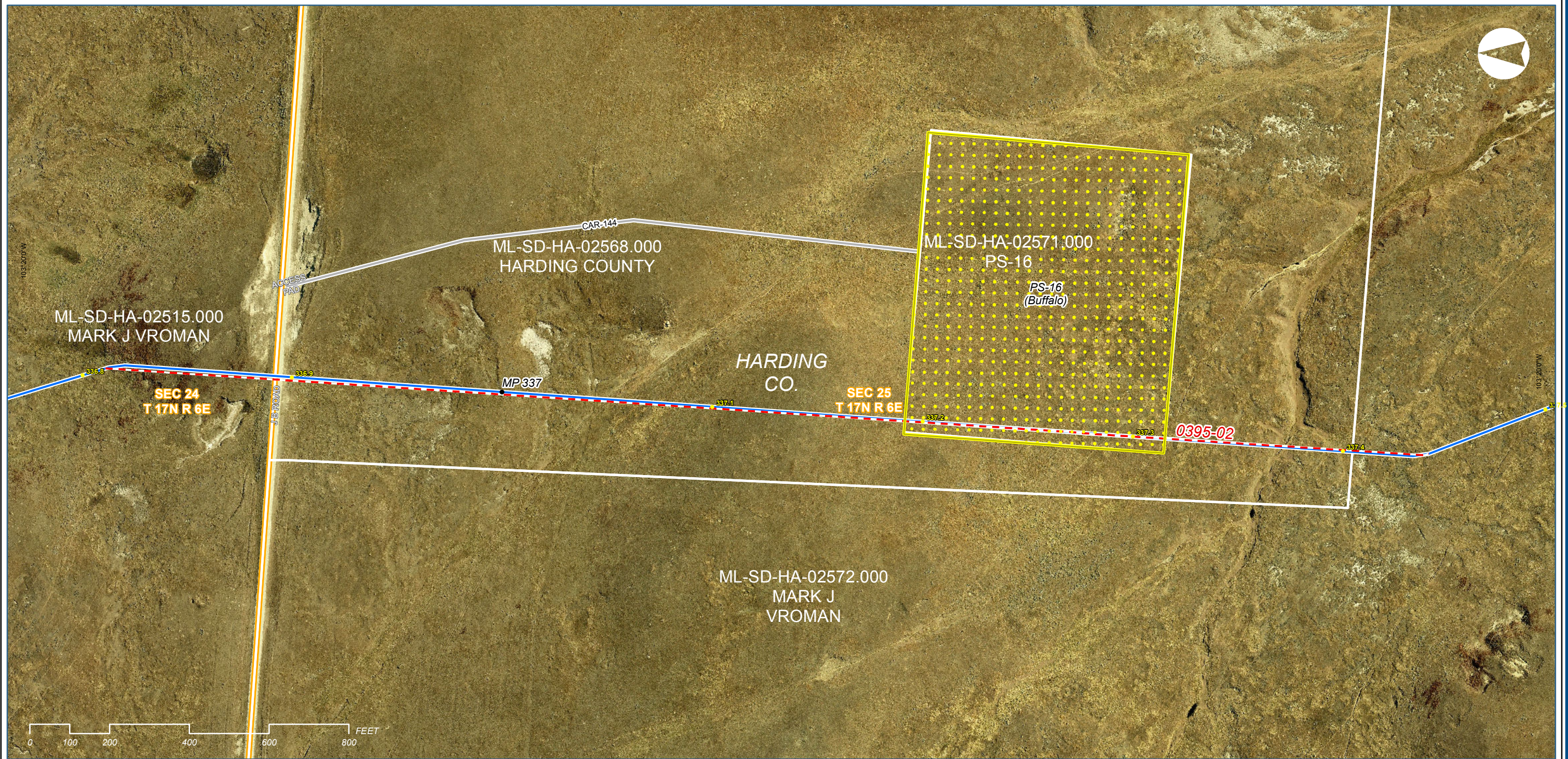
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DWG:	XL-30-P-9200_RV-0394-0395	SHEET:	6
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LEGEND

.1 MILE POST	PROPERTY PARCEL	Foreign Utilities
MILEPOST	CULTURAL SITE	CAB
KEYSTONE XL CL (2012-08-15)	WETLAND	FIB
PROPOSED ROUTE VARIATION	WATERBODY	GAS
ACCESS ROAD	MDEQ 500ft CORRIDOR	OEL
PUMP STATION	SECTION LINE	OIL
VALVE		PL
		TEL
		WAT

KEYSTONE XL PROJECT
Proposed Route Variations: 0394 - 0395

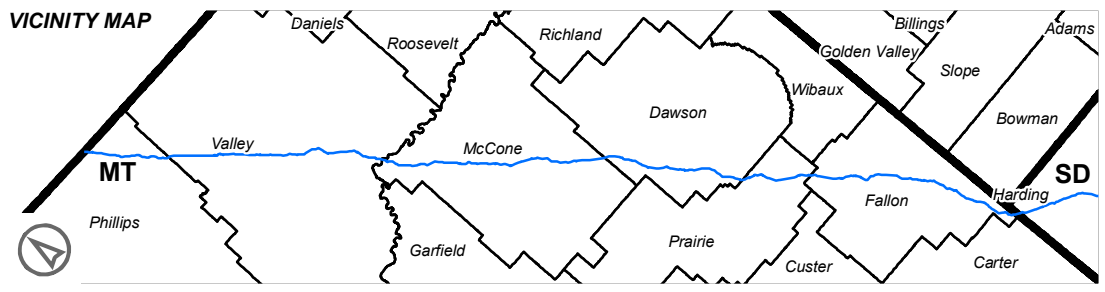
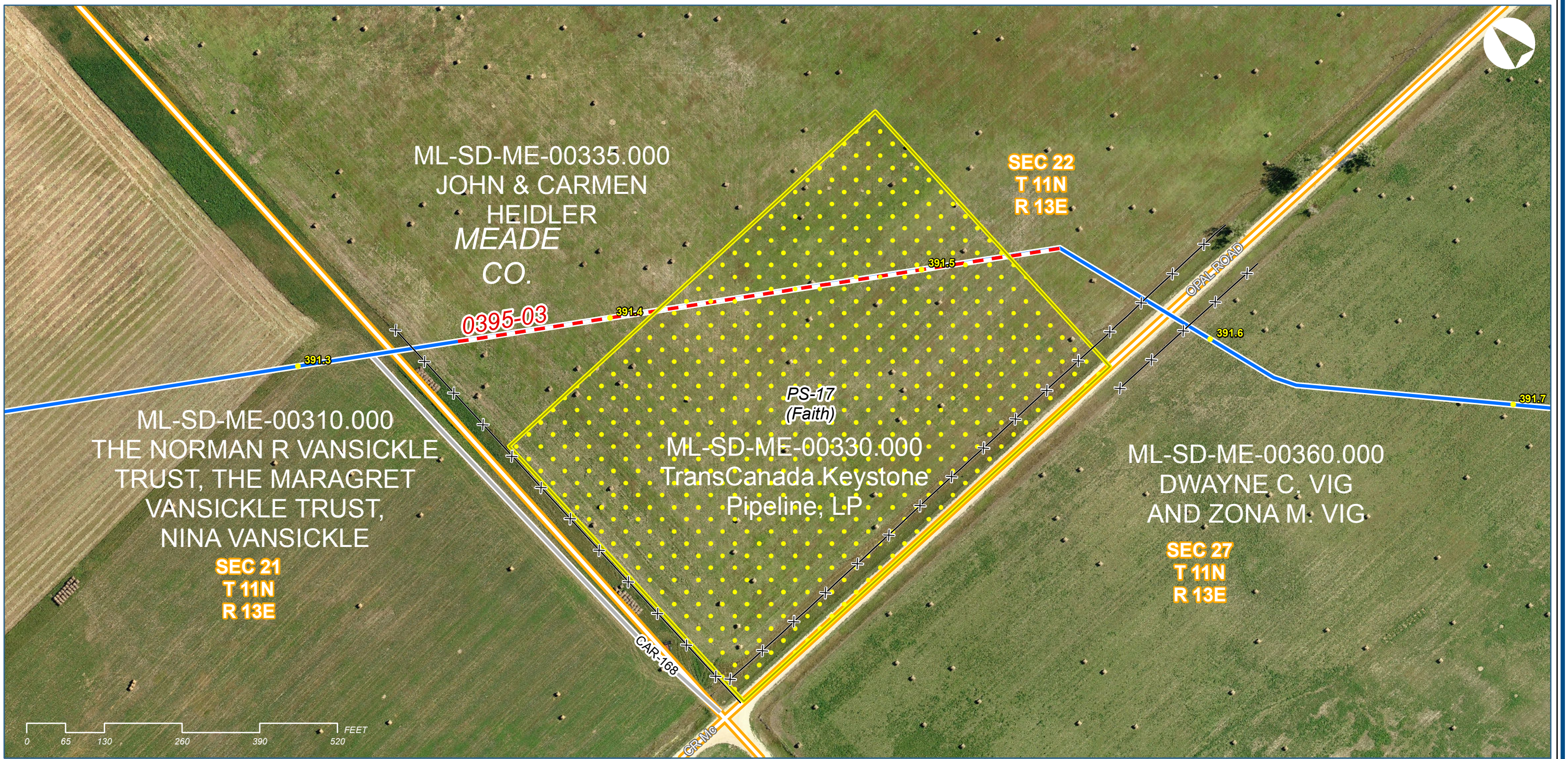
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STATE: MONTANA	CHECKED BY: JP
REV. NO.: 0	REVISION: ISSUED FOR REVIEW. DATE: 2012-11-06
PRELIMINARY	
DATE: 2012-11-06	PROJECTION: NAD83 UTM14 N

PREPARED BY:
exp Energy Services Inc.
t: +1.850.385.5441 | f: +1.850.385.5523
1300 Metropolitan Blvd.
Tallahassee, FL 32308
U.S.A.
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DWG: XL-30-P-9200_RV-0394-0395 SHEET: 7



LEGEND

- .1 MILE POST
- MILEPOST
- KEYSTONE XL CL (2012-08-15)
- PROPOSED ROUTE VARIATION
- ACCESS ROAD
- PUMP STATION
- VALVE
- PROPERTY PARCEL
- CULTURAL SITE
- WETLAND
- WATERBODY
- MDEQ 500ft CORRIDOR
- SECTION LINE
- Foreign Utilities
- CAB
- FIB
- GAS
- OEL
- OIL
- PL
- TEL
- WAT

KEYSTONE XL PROJECT

Proposed Route Variations: 0394 - 0395

COUNTY:	MEADE	DRAWN BY:	CR
STATE:	MONTANA	CHECKED BY:	JP

REV. NO.:	REVISION	DATE
0	ISSUED FOR REVIEW.	2012-11-06

PRELIMINARY

DATE:	2012-11-06	PROJECTION:	NAD83 UTM14 N
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PREPARED BY:

exp Energy Services Inc.

t: +1.850.385.5441 | f: +1.850.385.5523
 1300 Metropolitan Blvd.
 Tallahassee, FL 32308
 U.S.A.

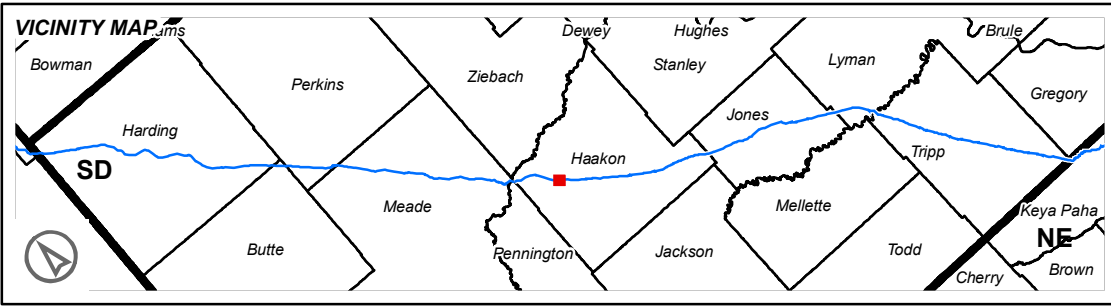
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DWG:	XL-30-P-9200_RV-0394-0395	SHEET:	8
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LEGEND

.1 MILE POST	PROPERTY PARCEL	Foreign Utilities
MILEPOST	CULTURAL SITE	CAB
KEYSTONE XL CL (2012-08-15)	WETLAND	FIB
PROPOSED ROUTE VARIATION	WATERBODY	GAS
ACCESS ROAD	MDEQ 500ft CORRIDOR	OEL
PUMP STATION	SECTION LINE	OIL
VALVE		PL
		TEL
		WAT

KEYSTONE XL PROJECT
SD Route Variations: 0395-04 - 0395-07

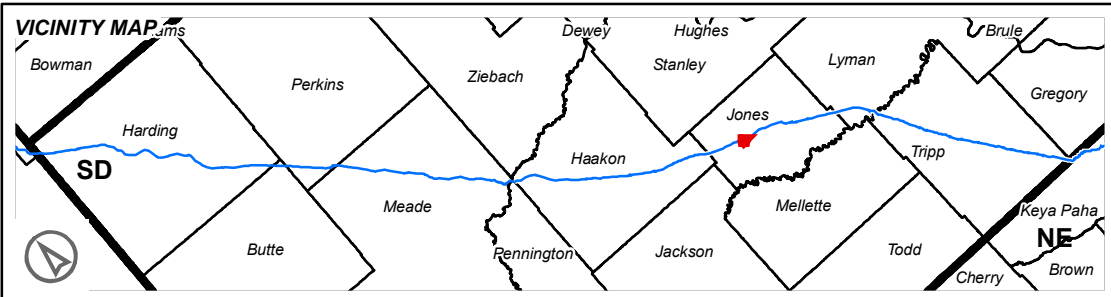
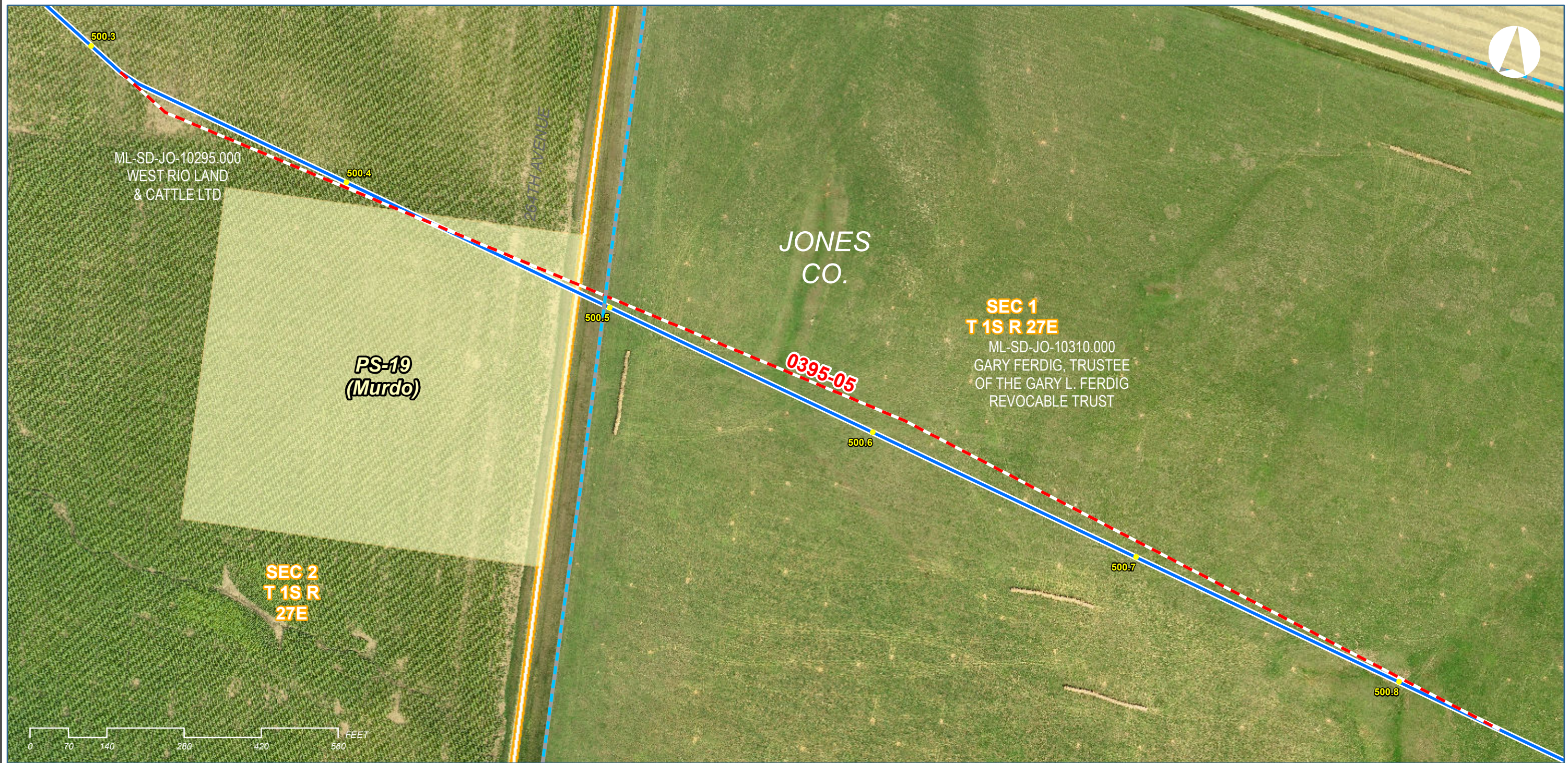
COUNTY:	HAAKON	DRAWN BY:	CR
STATE:	SOUTH DAKOTA	CHECKED BY:	JP
REV. NO.:	0	REVISION	ISSUED FOR REVIEW.
		DATE	2012-11-07
PRELIMINARY			
DATE:	2012-11-07	PROJECTION:	NAD83 UTM14 N

PREPARED BY:
exp Energy Services Inc.
t: +1.850.385.5441 | f: +1.850.385.5523
1300 Metropolitan Blvd.
Tallahassee, FL 32308
U.S.A.
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DWG: XL-46-P-9200_RV-0395 SHEET: 1



LEGEND

.1 MILE POST	PROPERTY PARCEL	CAB
MILEPOST	CULTURAL SITE	FIB
KEYSTONE XL CL (2012-08-15)	WETLAND	GAS
PROPOSED ROUTE VARIATION	WATERBODY	OEL
ACCESS ROAD	MDEQ 500ft CORRIDOR	OIL
PUMP STATION	SECTION LINE	PL
VALVE		TEL
		WAT

KEYSTONE XL PROJECT
SD Route Variations: 0395-04 - 0395-07

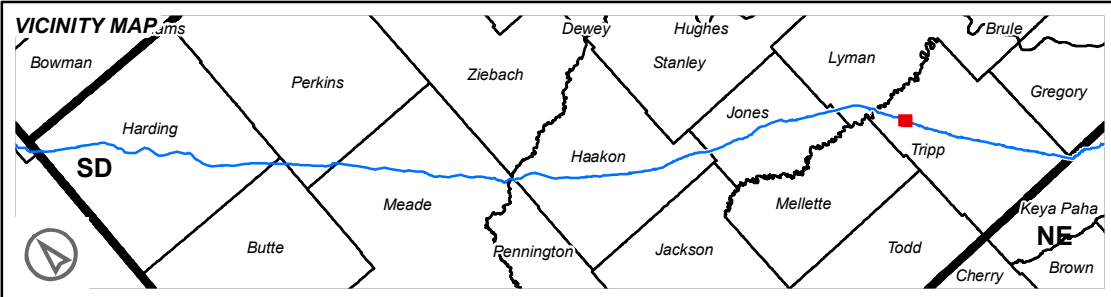
COUNTY: JONES	DRAWN BY: CR
STATE: SOUTH DAKOTA	CHECKED BY: JP
REV. NO.: 0	REVISION: ISSUED FOR REVIEW. DATE: 2012-11-07
PRELIMINARY	
DATE: 2012-11-07	PROJECTION: NAD83 UTM14 N

PREPARED BY:
exp Energy Services Inc.
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DWG: XL-46-P-9200_RV-0395 SHEET: 2



LEGEND

- .1 MILE POST
- MILEPOST
- KEYSTONE XL CL (2012-08-15)
- PROPOSED ROUTE VARIATION
- ACCESS ROAD
- PUMP STATION
- VALVE
- PROPERTY PARCEL
- CULTURAL SITE
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- MDEQ 500ft CORRIDOR
- SECTION LINE
- CAB
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- GAS
- OEL
- OIL
- PL
- TEL
- WAT

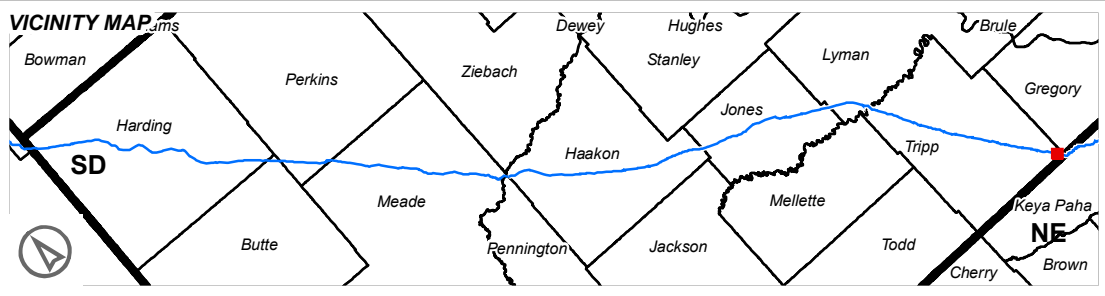
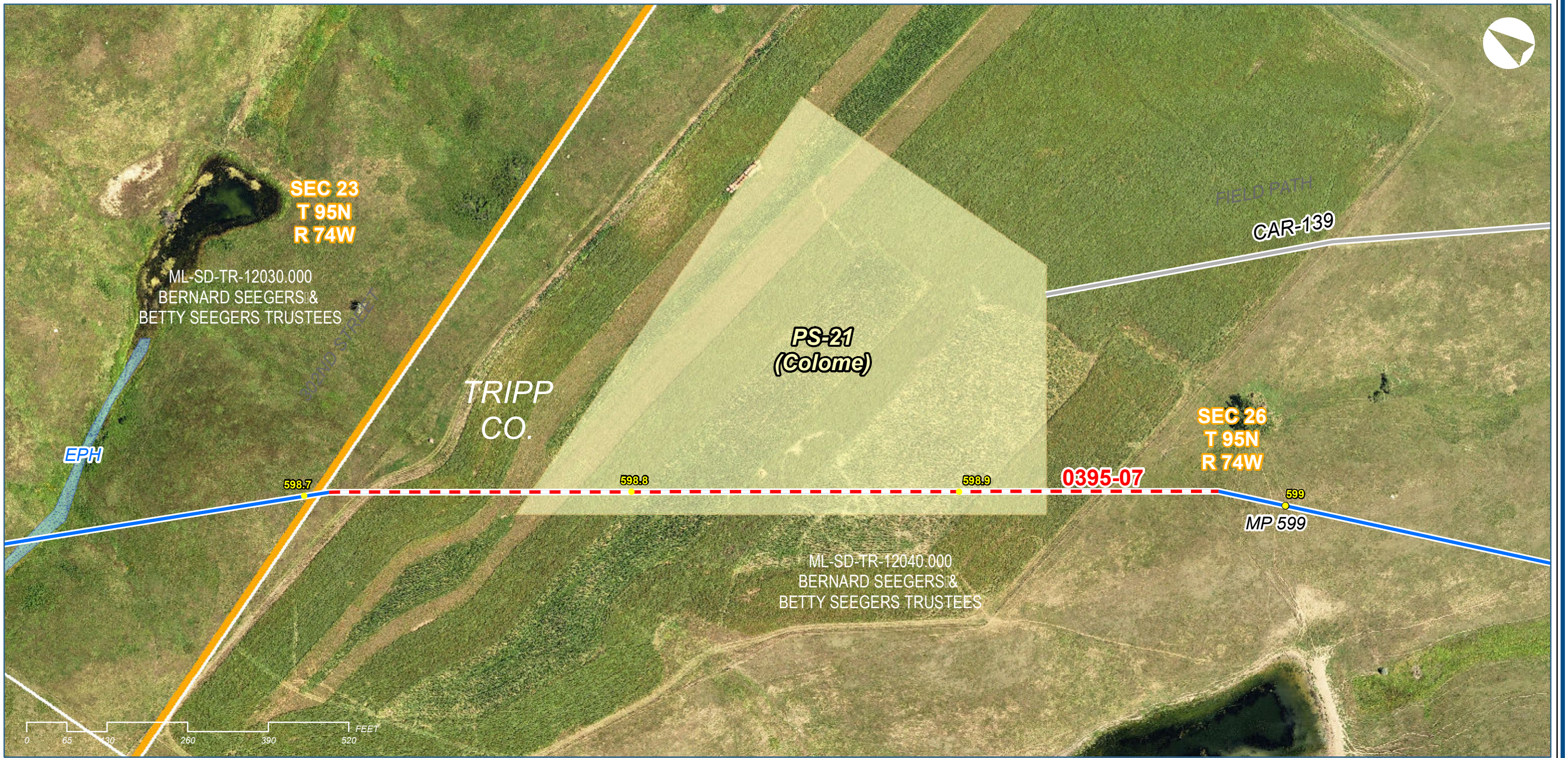
KEYSTONE XL PROJECT		
SD Route Variations: 0395-04 - 0395-07		
COUNTY: TRIPP	DRAWN BY: CR	
STATE: SOUTH DAKOTA	CHECKED BY: JP	
REV. NO.	REVISION	DATE
0	ISSUED FOR REVIEW.	2012-11-07
PRELIMINARY		
DATE: 2012-11-07	PROJECTION: NAD83 UTM14 N	

PREPARED BY:
exp Energy Services Inc.
 t: +1.850.385.5441 | f: +1.850.385.5523
 1300 Metropolitan Blvd.
 Tallahassee, FL 32308
 U.S.A.
www.exp.com

The new identity of Trow Engineering Consultants, Inc.

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
 • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

DWG: XL-46-P-9200_RV-0395 SHEET: 3



LEGEND

- .1 MILE POST
- MILEPOST
- KEYSTONE XL CL (2012-08-15)
- PROPOSED ROUTE VARIATION
- ACCESS ROAD
- PUMP STATION
- VALVE
- PROPERTY PARCEL
- CULTURAL SITE
- WETLAND
- WATERBODY
- MDEQ 500ft CORRIDOR
- SECTION LINE
- CAB
- FIB
- GAS
- OEL
- OIL
- PL
- TEL
- WAT

KEYSTONE XL PROJECT

SD Route Variations: 0395-04 - 0395-07

COUNTY: TRIPP	DRAWN BY: CR	
STATE: SOUTH DAKOTA	CHECKED BY: JP	
REV. NO.: 0	REVISION: ISSUED FOR REVIEW.	DATE: 2012-11-07

PRELIMINARY

DATE: 2012-11-07	PROJECTION: NAD83 UTM14 N
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