



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E., Suite 400
Aberdeen, South Dakota 57401



IN REPLY REFER TO:
DESCRM
MC-208

NOV 16 2011

MEMORANDUM

TO: Superintendent, Fort Berthold Agency
FROM: ^{Acting} Regional Director, Great Plains Region
SUBJECT: Supplemental to Environmental Assessment

A Categorical Exclusion has been completed in compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended. The proposed Supplemental Categorical Exclusion is for information tiering off of an existing Environmental Assessment for QEP Energy and authorizes redefining the diameter of water pipeline. No new surface disturbances will be associated with this proposed action.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the Categorical Exclusion.

If you have any questions, please call Marilyn Bercier, Regional Environmental Scientist, Division of Environment, Safety and Cultural Resources Management, at (605) 226-7656.

Attachment

cc: Tex Hall, Chairman, Three Affiliated Tribes (with attachment)
Elgin Crows Breast, THPO (with attachment)
Derek Enderud, BLM, Dickenson, ND (with attachment)
Jerry Reinisch, QEP Contractor (with attachment)
John Shelman, US Army Corps of Engineers
Jeffrey Hunt, Fort Berthold Agency



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E.
Aberdeen, South Dakota 57401



IN REPLY REFER TO:
DESCRM
MC-20820

EXCEPTION CHECKLIST FOR BIA CATEGORICAL EXCLUSIONS

Date: 11/9/2011

Project: Supplemental to the Environmental Assessment for QEP Energy Company, MHA Gathering System Supplementing the QEP Energy Company, MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, March 2010, MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, CATEX for construction re-routes, September 2010, MHA 2-01-02H-149-91, MHA 2-07-18H-149-91, MHA 1-01-02H-149-91 Exploratory Oil and Gas Wells, August 2010, MHA 1-05-06H-149-91, MHA 3-05-06H-14991, MHA 1-09-06H-149-91, MHA 3-09-16H-149-91, MHA 1-04-03H-149-91 and MHA 3-04-03H-149-91 Exploratory Oil and Gas Wells, March, 2011, MHA 2-05-06H-149-90, MHA 3-05-06H-149-91, MHA 1-11-14H-149-90 and MHA 2-10-15H-149-90 Exploratory Oil and Gas Wells, December 2010 to Authorize the use of three to six inch water pipeline diameter along the MHA Gathering System route.

Nature of Proposed Action: The purpose of the proposed action is to authorize QEP to define the diameter of the water pipeline to be placed along the MHA Gathering Line existing ROW. No new surface disturbances will be associated with the installation of the produced water gathering pipeline.

Exclusion category and number: 516 DM 10.5G(3)

Evaluation of Exceptions to use of Categorical Exclusion:

1. This action would have significant adverse effects on public health or safety. No X Yes _____
2. This action would have an adverse effect on unique geographical features, such as wetlands, wild or scenic rivers, refuges, floodplains, rivers placed on nationwide river inventory, or prime or unique farmlands. No X Yes _____
3. The action will have highly controversial environmental effects. No X Yes _____
4. The action will have highly uncertain environmental effects or involve unique or unknown environmental risks. No X Yes _____
5. This action will establish a precedent for future actions. No X Yes _____
6. This action is related to other actions with individually insignificant, but cumulatively significant environmental effects. No X Yes _____

- 7. This action will affect properties listed or eligible for listing in the National Register of Historic Places. No X Yes _____
- 8. This action will affect a species listed, or proposed to be listed as endangered or threatened. No X Yes _____
- 9. This action threatens to violate federal, state, local or tribal law or requirements imposed for protection of the environment. No X Yes _____
- 10. This action will have a disproportionately high and adverse effect on low income or minority populations. No X Yes _____
- 11. This action will limit access to, and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners, or significantly adversely affect the physical integrity of such sacred sites. No X Yes _____
- 12. This action will contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or may promote the introduction, growth, or expansion of the range of such species. No X Yes _____

A "yes" to any of the above exceptions will require that an EA be prepared.

NEPA Action - - - CE X EA _____

Preparer's Name and Title: Jerry D. Reinisch, Biological/Environmental Contractor, Bismarck, ND

Regional Archeologist Concurrence with Item 7 Cameron M. M... [Signature]

Concur: Marely Deuce Date: 11/14/11
Regional Office/Agency Environmental Coordinator

Concur: Jim LaPointe Date: 11-16-2011
Regional Director/Superintendent

ENVIRONMENTAL ASSESSMENT

Addendum/Supplemental

United States Bureau of Indian Affairs

Great Plains Regional Office
Aberdeen, South Dakota



Addendum/Supplemental to:

QEP Energy Company's

March 2010 Environmental Assessment: MHA Gathering System Development and Construction of Oil, Gas, Water
Pipelines and Electrical Utility

Fort Berthold Indian Reservation

November 2011

*For information contact:
Bureau of Indian Affairs, Great Plains Regional Office
Division of Environment, Safety and Cultural Resources
115 4th Avenue SE
Aberdeen, South Dakota 57401
605-226-7656*

CONTENTS

1	Purpose and Need for the Proposed Action	1
2	Authorities	2
3	Legal Land Description of Proposed Action	3
4	Scope of Work for Proposed Action	3
5	Applicable National Environmental Policy Act (NEPA) Documents	3
6	Cultural Resources	4
7	NEPA Adequacy Criteria.....	4

EXHIBITS

Figure 1	ROW Boundaries	1
Figure 2	Project Overview Map	2

1 PURPOSE AND NEED FOR THE PROPOSED ACTION

QEP proposes to authorize the use of three to six inch flex-steel water pipeline to be installed in the existing ROW (Right-of-Way) covered by the previously authorized EA for the March 2010 Environmental Assessment: MHA Gathering System Development and Construction of Oil, Gas, and Water Pipelines and Electrical Utility. A four-inch water line had been previously identified. Trenching equipment would make a one-time pass over the area with minimal disturbance. No other pipeline installation related activities or excavation would impact the ROW. The water pipeline would be initiated in the NE¼ of Section 6, Township 149 North, Range 90 West, and the project would terminate in the SW¼ of Section 4, Township 150 North, Range 90 West. *Please refer to Figure 1, ROW boundaries.*

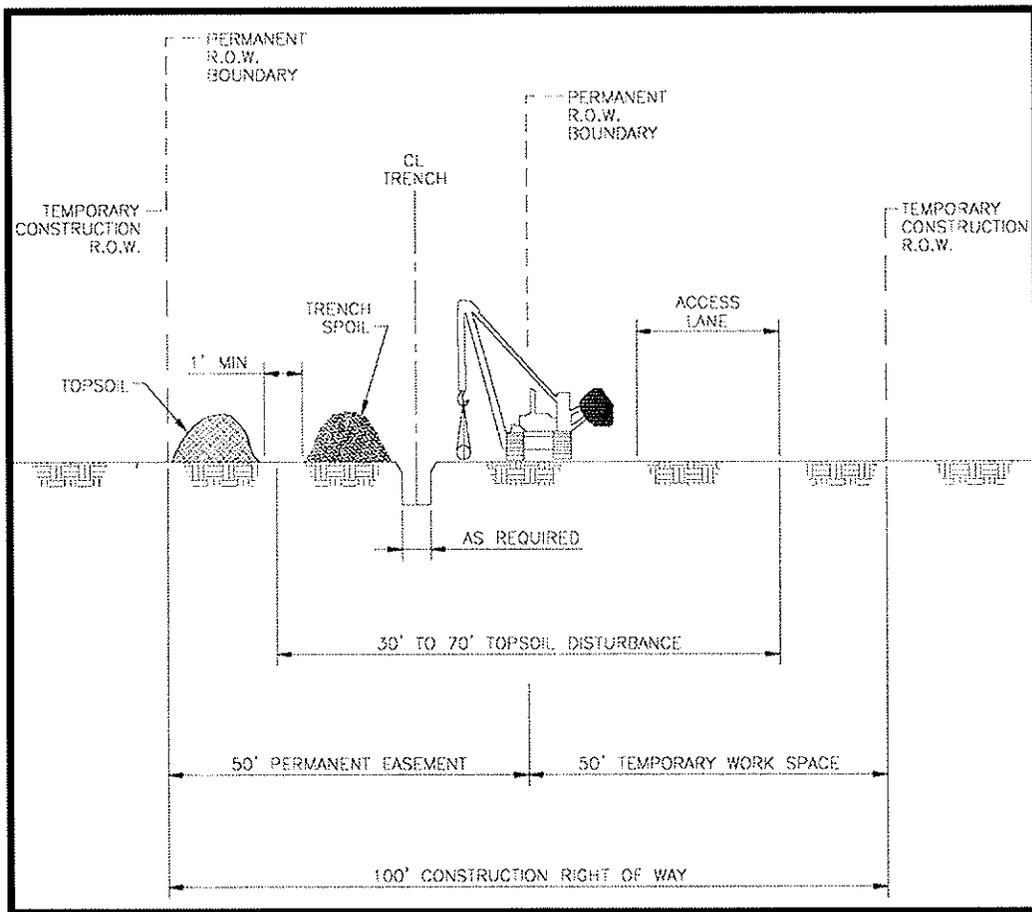


Figure 1, ROW Boundaries

The water pipeline would be installed along the existing corridor using 6-inch flex-steel pipe for the main portion of the line (Yellow). The laterals would be a 4-inch flex-steel pipe (Blue) and the well connects would be a 3-inch (Red) flex-steel pipe. *Please see Figure 2, Project Overview Map.*

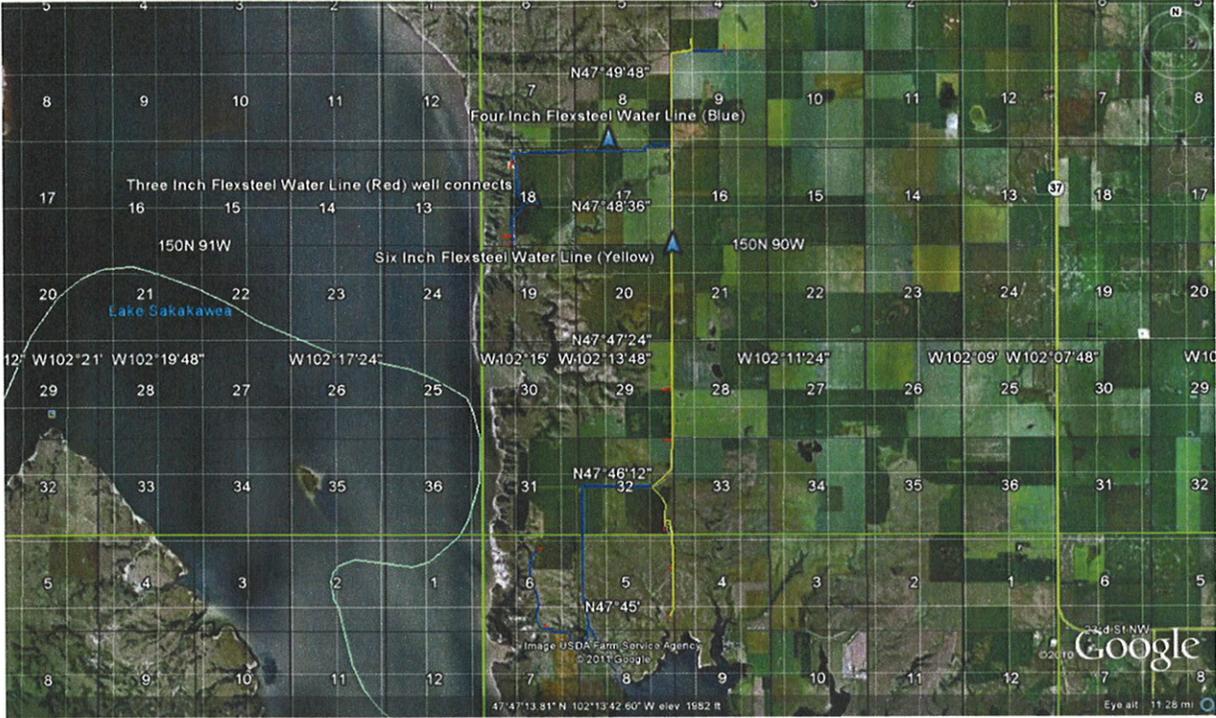


Figure 2, Project Overview Map

The flex-steel pipe for the proposed water line project was purchased directly from the manufacturer as there are no distributors for this product. The 6-inch (Yellow) flex-steel pipe has a 1,500 PSI (pounds per square inch) maximum operating pressure with a 7.083 inch O.D. (outside diameter) and a 5.604 inch I.D. (inside diameter). The 4-inch (Blue) flex-steel pipe used for the water pipeline laterals has a maximum operating pressure 1,000 PSI with a 4.680 inch O.D and a 3.669 inch I.D. The 3-inch (Red) flex-steel pipe used for the well connects has a maximum operating pressure of 1,000 PSI with a 3.682 inch O.D. and a 2.821 inch I.D. The Construction activities would take place atop areas that have achieved a Finding of No Significant Impact NEPA approval.

2 AUTHORITIES

Oil and gas exploration and development activities are conducted under authority of the Indian Mineral Leasing Act of 1938 (25 United States Code [USC] 396a, et seq.), the Indian Mineral Development Act of 1982 (25 USC 2101, et seq.), and the Energy Policy Act of 2005 (42 USC 15801, et seq.).

Environmental Assessment Supplement
 MHA Gathering System Development and Construction of Oil, Gas and Water Pipeline and Electric Utility, March 2010.
 QEP Energy Company
 October 2011

3 LEGAL LAND DESCRIPTION OF PROPOSED ACTION

The proposed water pipeline would initiate in the NE¼ of Section 6, T149N, R90W would be located within the previously authorized pipeline alignment and temporary construction ROW (**Appendix A**). The produced water pipeline would end in the SW¼ of Section 4, Township 150 North, Range 90 West.

4 SCOPE OF WORK FOR PROPOSED ACTION

The proposed water line pipeline would be constructed within the previously approved ROW and temporary construction ROW. The proposed water pipeline would be buried, using a trenching technique, at a depth of approximately 8-feet. The operating pressure would be approximately 1,000 PSI. The construction and surface disturbance would occur within previously approved locations. These are BIA approved ROWs #100108, #100109, #100240 and #100280. As such, no additional environmental impacts aside from those disclosed in the previously referenced NEPA documents are anticipated from construction of the proposed water pipeline. The As-built data for the existing oil and gas lines along the proposed water line route show the construction within the previously approved ROW (**Appendix A**).

5 APPLICABLE NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DOCUMENTS

Environmental Assessment: The MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, March 2010.

Environmental Supplemental: The MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, CATEX for construction re-routes, September 2010.

Environmental Assessment: The MHA 2-01-02H-149-91, MHA 2-07-18H-149-91, MHA 1-01-02H-149-91 Exploratory Oil and Gas Wells, August 2010.

Environmental Assessment: The MHA 1-05-06H-149-91, MHA 3-05-06H-14991, MHA 1-09-06H-149-91, MHA 3-09-16H-149-91, MHA 1-04-03H-149-91 and MHA 3-04-03H-149-91 Exploratory Oil and Gas Wells, March, 2011.

Environmental Assessment: The MHA 2-05-06H-149-90, MHA 3-05-06H-149-91, MHA 1-11-14H-149-90 and MHA 2-10-15H-149-90 Exploratory Oil and Gas Wells, December 2010.

6 CULTURAL RESOURCES

The proposed project area has been surveyed for cultural resources as part of the NEPA processes discussed above. There was a finding of *No Historic Properties Affected*.

As all construction activities associated with the proposed definition of water pipeline diameters would utilize areas that have achieved cultural resource clearance, it is anticipated that the proposed project would not impact cultural resources.

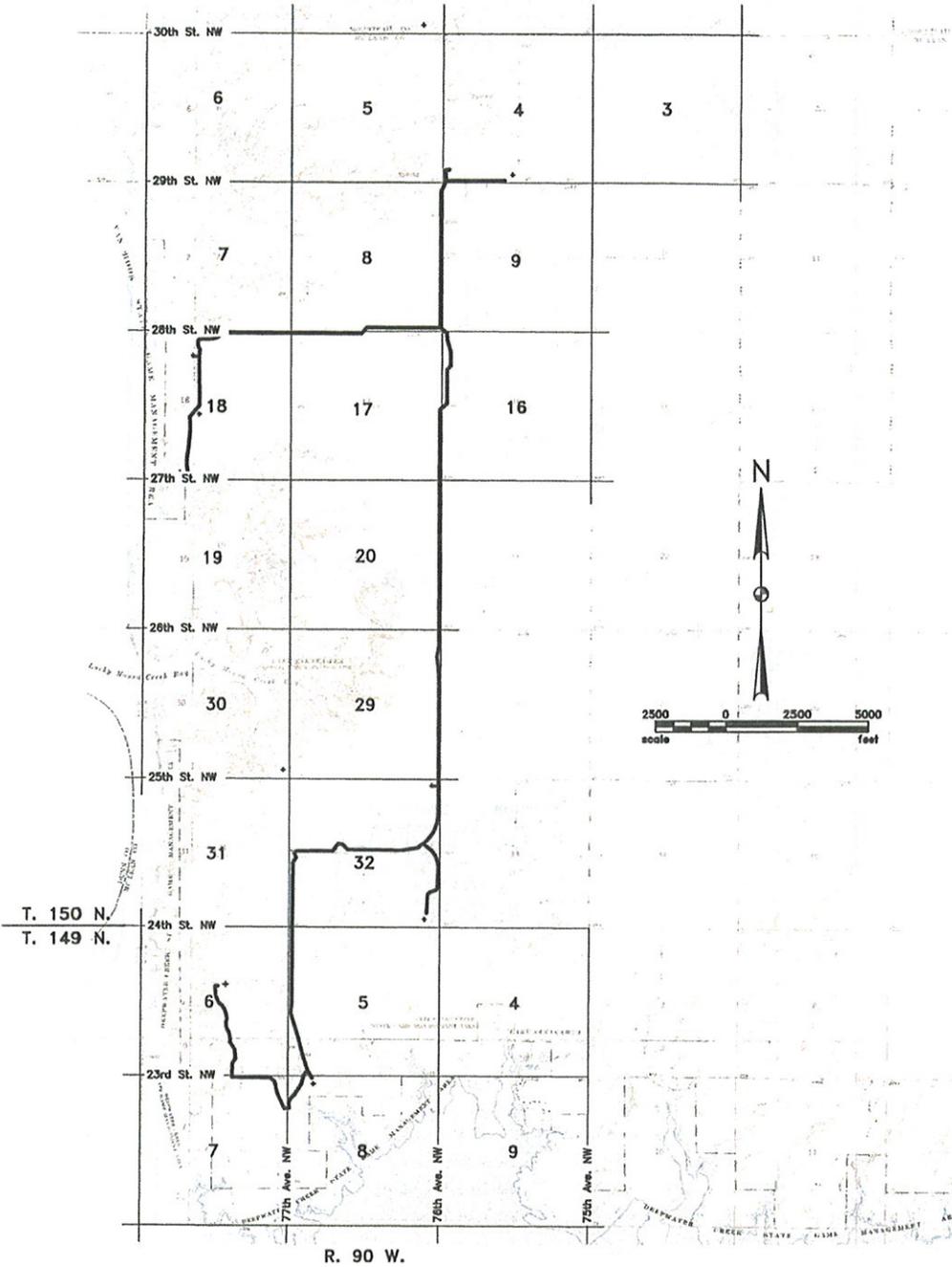
7 NEPA ADEQUACY CRITERIA

This document has identified five previously prepared NEPA documents, MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, March 2010, MHA Gathering System, Development and Construction of Oil, Gas and Water Pipelines and Electrical Utility, CATEX for construction re-routes, September 2010, MHA 2-01-02H-149-91, MHA 2-07-18H-149-91, MHA 1-01-02H-149-91 Exploratory Oil and Gas Wells, August 2010, MHA 1-05-06H-149-91, MHA 3-05-06H-149-91, MHA 1-09-06H-149-91, MHA 3-09-16H-149-91, MHA 1-04-03H-149-91 and MHA 3-04-03H-149-91 Exploratory Oil and Gas Wells, March, 2011, MHA 2-05-06H-149-90, MHA 3-05-06H-149-91, MHA 1-11-14H-149-90 and MHA 2-10-15H-149-90 Exploratory Oil and Gas Wells, December 2010 also included the placement of pipelines and electrical utility in the access road ROW which adequately describes the environmental consequences of the newly proposed actions described herein, and meets the following NEPA Adequacy Criteria:

1. The proposed actions are substantially the same actions and at the sites specifically analyzed in the existing NEPA documents.
2. The range of alternatives is reasonable with respect to the current proposed actions in the existing NEPA documents, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA documents. The analysis is still valid in light of new studies and/or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA documents continues to be appropriate for the proposed actions.
5. The direct and indirect impacts of the proposed actions are unchanged from those identified in the existing NEPA documents.
6. The cumulative impacts that would result from implementation of the proposed actions are unchanged from those analyzed in the existing NEPA documents.
7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA documents.

Appendix A

WILLISTON GATHERING SYSTEM WATER LINE QEP FIELD SERVICES



T. 149 N., R. 90 W.

SECTION 5
SHEETS 6 & 8

SECTION 6
SHEETS 1 & 2

SECTION 7
SHEETS 3 & 4

SECTION 8
SHEETS 5 & 7

T. 150 N., R. 90 W.

SECTION 4
SHEET 27

SECTION 8
SHEETS 22, 26, 33 & 34

SECTION 9
SHEETS 23, 24 & 25

SECTION 16
SHEETS 20 & 21

SECTION 17
SHEETS 19 & 32

SECTION 18
SHEETS 30 & 31

SECTION 20
SHEETS 17 & 18

SECTION 29
SHEETS 15 & 16

SECTION 32
SHEETS 9, 10, 11, 12, 13, 14,
28 & 29



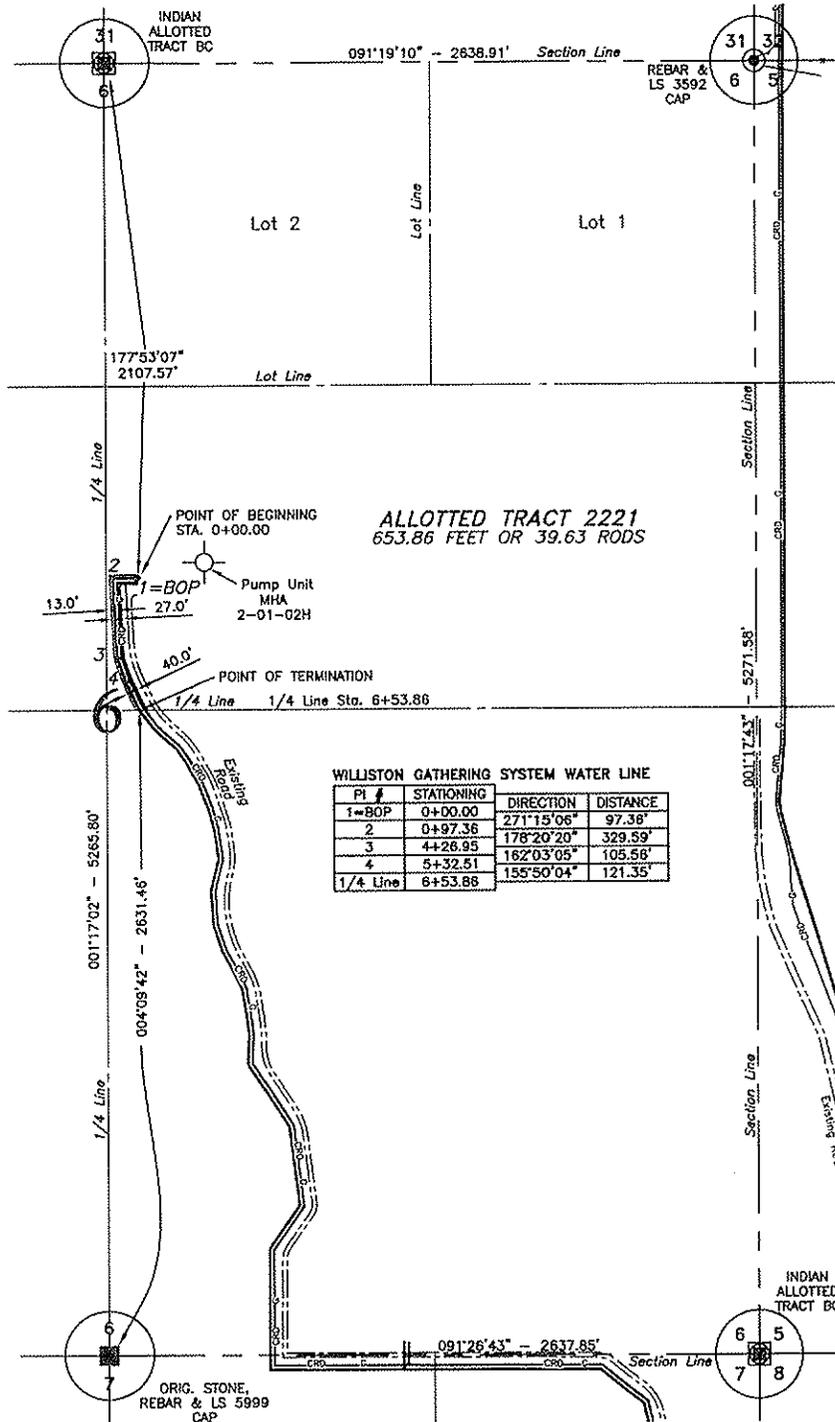
QEP Energy Company
1050 17th Street, Suite 500
Denver, CO 80265-1050

NOTE:
Survey is based on North Dakota State Plane System, 144083 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



Drawn By: S. Wolf Date: 10/17/2011

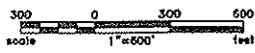
ALLOTTED TRACT 2221
 S1/2NE1/4 OF SECTION 6, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PT #	STATIONING	DIRECTION	DISTANCE
1=BOP	0+00.00	271°15'06"	97.38'
2	0+97.38	178°20'20"	329.59'
3	4+26.95	162°03'05"	105.56'
4	5+32.51	155°50'04"	121.35'
1/4 Line	6+53.88		

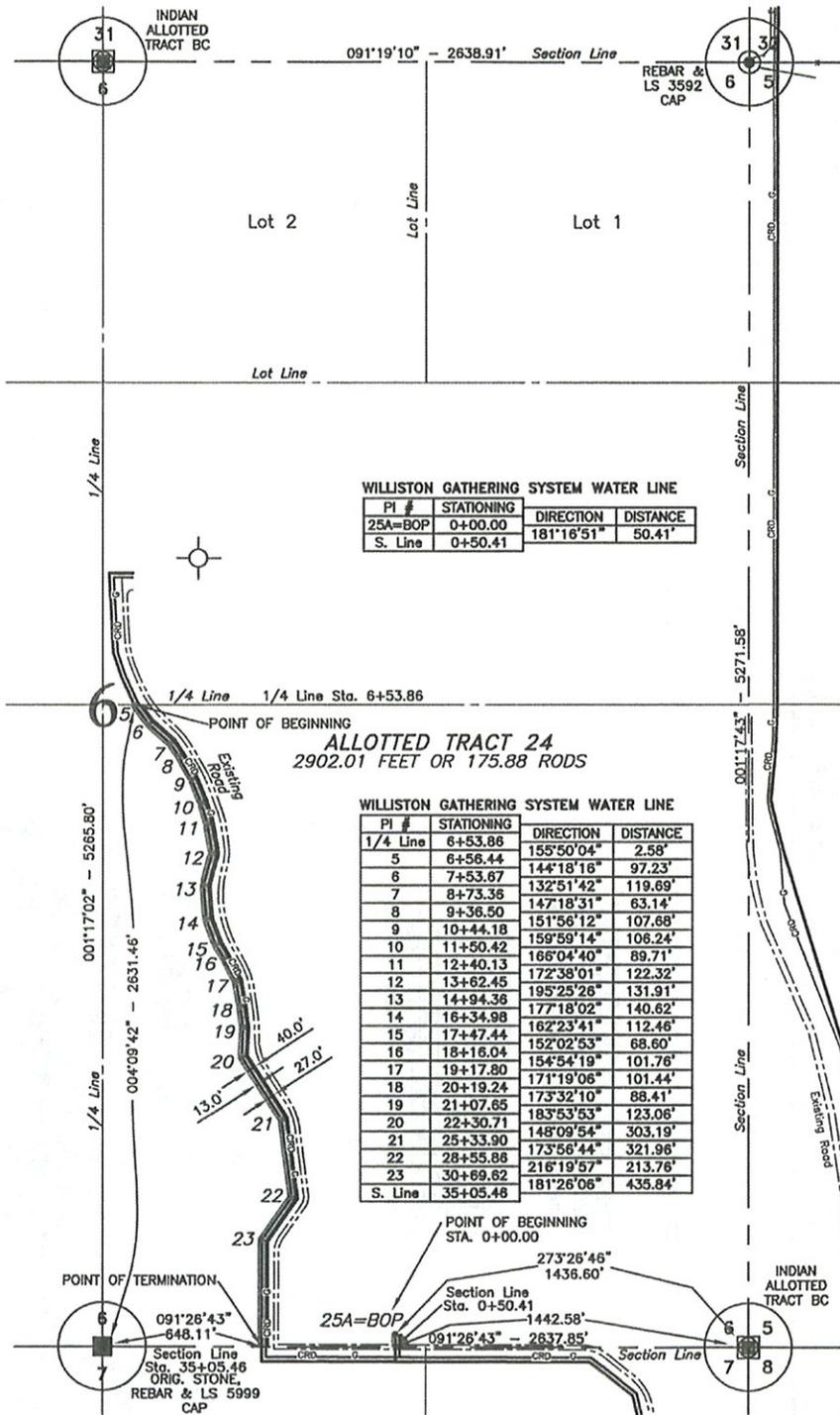
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 1 OF 34

 Engineers Surveyors Planners 1050 17th Street, Suite 500 Denver, CO 80265-1050 OEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE		DWG NO. 3709480BAS05
	PROPOSED PIPELINE LOCATION ON AND ACROSS THE S1/2NE1/4 OF SEC. 6, T. 149N., R. 90W.		JOB NO. 3709480
DRAWN BY: S. W. W. H. ORIGINAL DATE: 10/17/2011 REV. DATE:	SCALE: 1"=600' TRACT NUMBER: 6-149-90-A		

ALLOTTED TRACT 24
 SE1/4 OF SECTION 6, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
25A=BOP	0+00.00	181°16'51"	50.41'
S. Line	0+50.41		

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	6+53.86	155°50'04"	2.58'
5	6+56.44	144°18'16"	97.23'
6	7+53.67	132°51'42"	119.69'
7	8+73.38	147°18'31"	63.14'
8	9+36.50	151°56'12"	107.88'
9	10+44.18	159°59'14"	106.24'
10	11+50.42	166°04'40"	89.71'
11	12+40.13	172°38'01"	122.32'
12	13+62.45	195°25'26"	131.91'
13	14+94.38	177°18'02"	140.62'
14	16+34.98	162°23'41"	112.46'
15	17+47.44	152°02'53"	68.60'
16	18+16.04	154°54'19"	101.76'
17	19+17.80	171°19'06"	101.44'
18	20+19.24	173°32'10"	88.41'
19	21+07.65	183°53'53"	123.06'
20	22+30.71	148°09'54"	303.19'
21	25+33.90	173°56'44"	321.96'
22	28+55.88	216°19'57"	213.76'
23	30+69.62	181°26'06"	435.84'
S. Line	35+05.48		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



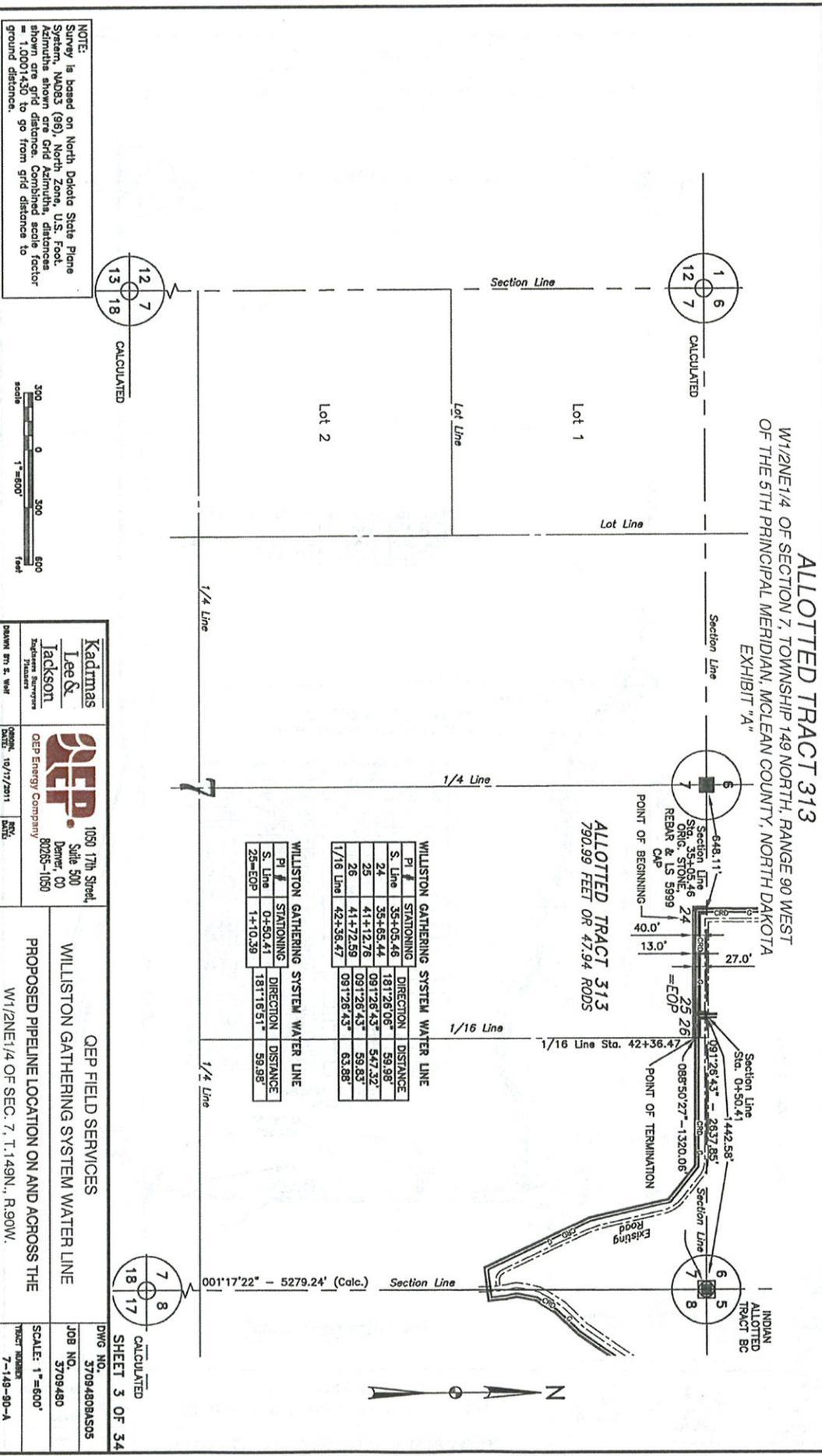
SHEET 2 OF 34

Kadmas Lee & Jackson
 Engineers Surveyors Planners
 1050 17th Street, Suite 500
 Denver, CO 80265-1050
 QEP Energy Company

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 SE1/4 OF SEC. 6, T.149N., R.90W.

DWG NO. 3709480BAS05
 JOB NO. 3709480
 SCALE: 1"=600'
 TRACT NUMBER 6-149-90-B

ALLOTTED TRACT 313
 W1/2NE1/4 OF SECTION 7, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line	35+05.46	181°26'06"	58.98'
24	35+65.44	091°28'43"	547.32'
25	41+12.76	091°28'43"	59.83'
26	41+72.59	091°28'43"	63.88'
1/16 Line	42+36.47		

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line	0+50.41	181°16'51"	59.98'
25-EGP	1+10.39		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



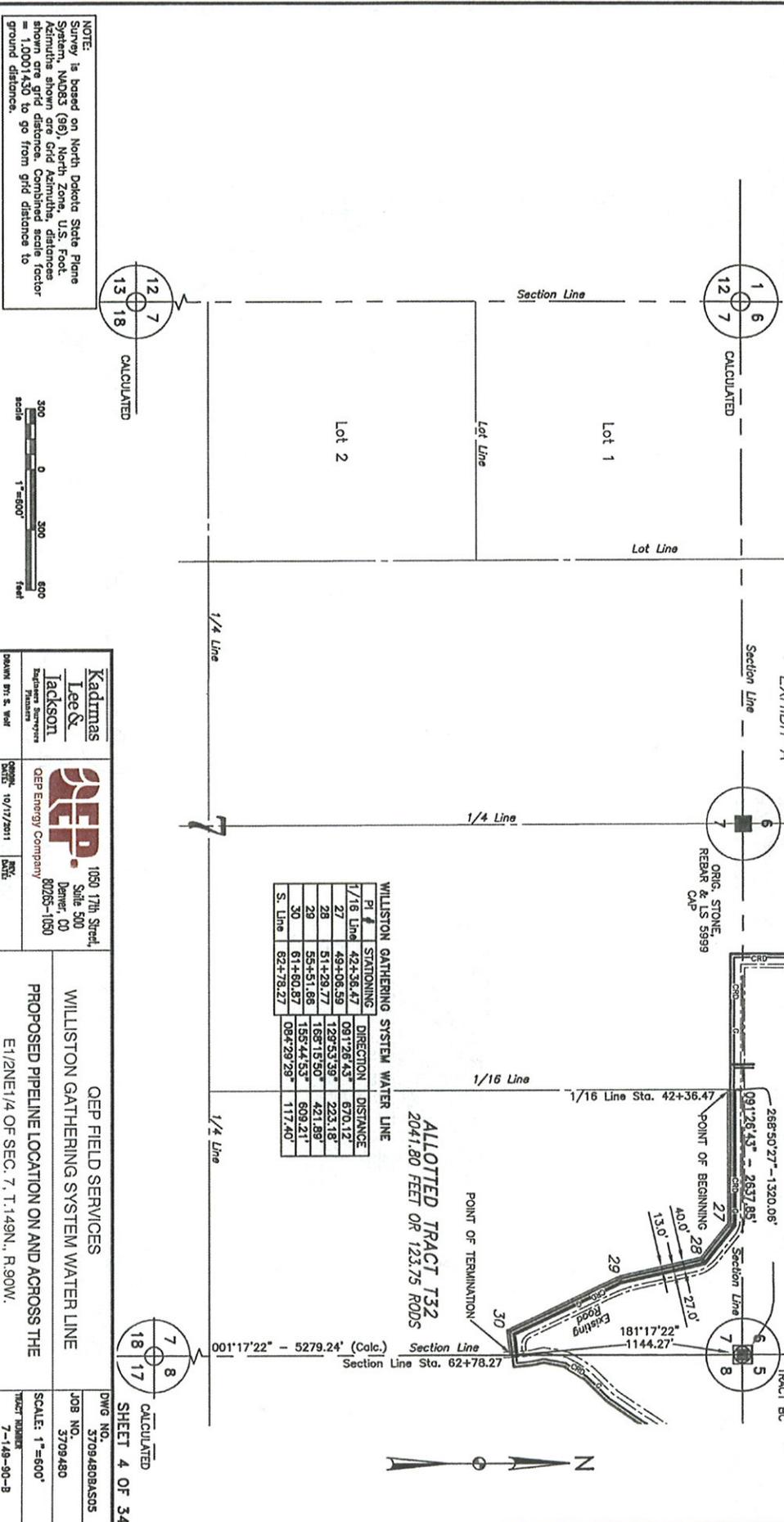
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© Kadmas, Lee & Jackson 2011

<p>Kadmas Lee & Jackson Registered Surveyors 1050 17th Street, Suite 500 Denver, CO 80202-1050</p>	<p>QEP QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80202-1050</p>	<p>QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE W1/2NE1/4 OF SEC. 7, T.149N., R.90W.</p>	<p>DWG NO. 3709480BAS05</p>
			<p>JOB NO. 3709480</p>
<p>DATE: 10/17/2011</p>		<p>SCALE: 1"=600'</p>	<p>TICKET NUMBER 7-148-90-A</p>
<p>DRAWN BY: S. WOLF</p>		<p>PROJECT: WNC_7-148-90</p>	

INDIAN ALLOTTED TRACT BC
 CALCULATED
 SHEET 3 OF 34

THREE AFFILIATED TRIBES
 E1/2NE1/4 OF SECTION 7, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PL. #	STATIONING	DIRECTION	DISTANCE
1/16 Line	42+36.47	081°26'43"	670.12'
27	49+08.99	128°53'59"	223.18'
28	51+29.77	168°15'50"	421.89'
29	55+51.86	155°44'53"	609.21'
30	61+60.87	084°29'29"	117.40'
S. Line	62+78.27		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



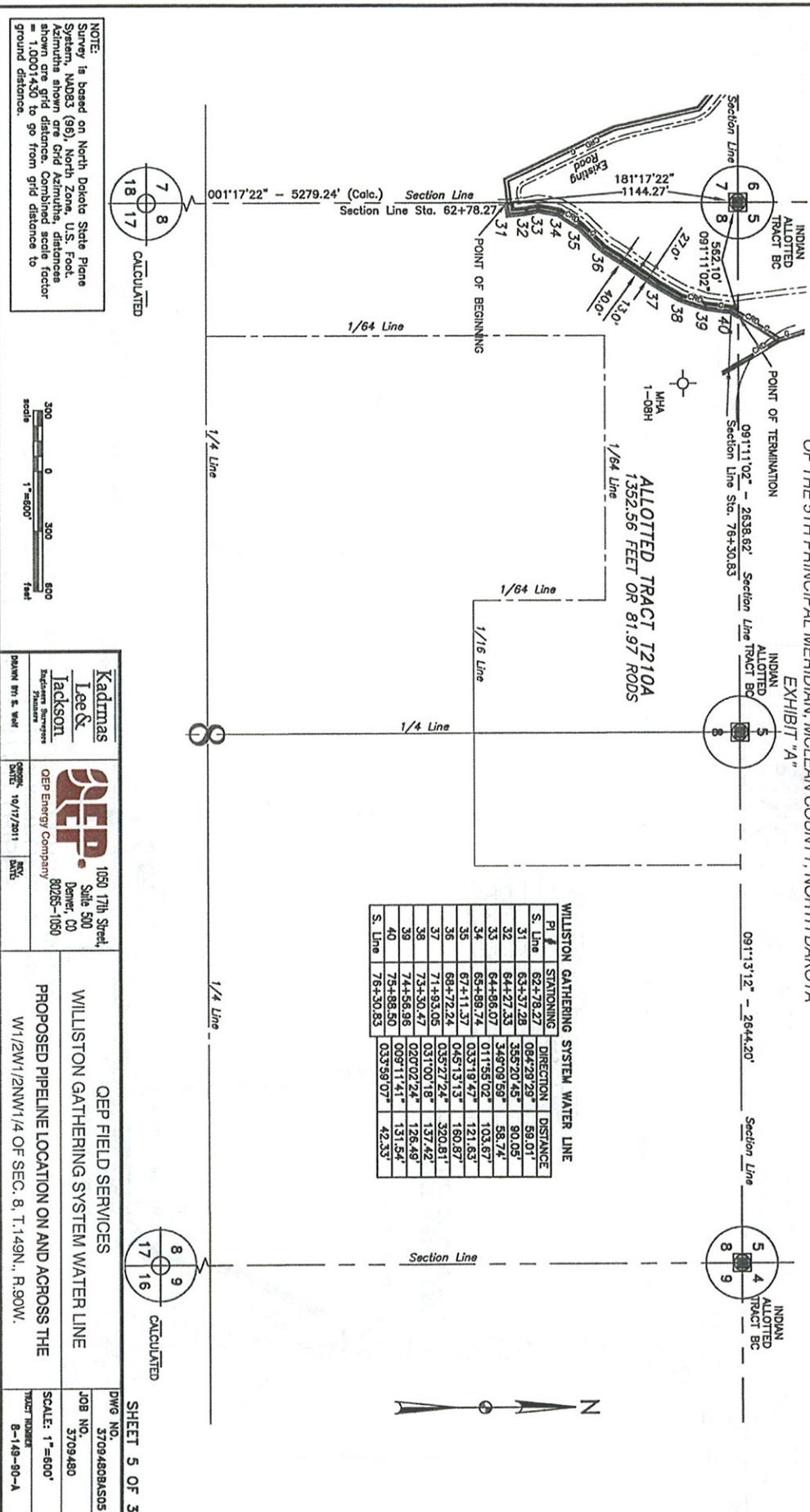
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Kadmas Lee & Jackson Engineers Surveyors 1050 17th Street, Suite 300 Denver, CO 80205-1050	QEP QEP Energy Company 10/17/2011 DATE	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2NE1/4 OF SEC. 7, T. 149N., R.90W.	DWG NO. 370948094S05
			JOB NO. 3709480
DRAWN BY: S. Wolf	DATE	SCALE: 1"=600' TRACT NUMBER 7-149-90-B	SHEET 4 OF 34

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L:\001\B_C_7-149-90

THREE AFFILIATED TRIBES
W1/2W1/2NW1/4 OF SECTION 8, TOWNSHIP 149 NORTH, RANGE 90 WEST
OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
31	62+78.27	084°29'29"	89.01'
32	63+37.28	385°20'48"	80.05'
33	64+27.33	349°09'58"	58.74'
34	65+88.374	011°55'02"	103.67'
35	67+11.37	045°13'13"	121.63'
36	68+72.24	035°27'24"	320.81'
37	71+83.05	031°00'18"	137.42'
38	73+30.47	020°02'24"	126.48'
39	74+58.98	009°11'41"	131.54'
40	75+88.50	033°39'07"	42.33'
S. Line	76+30.83		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



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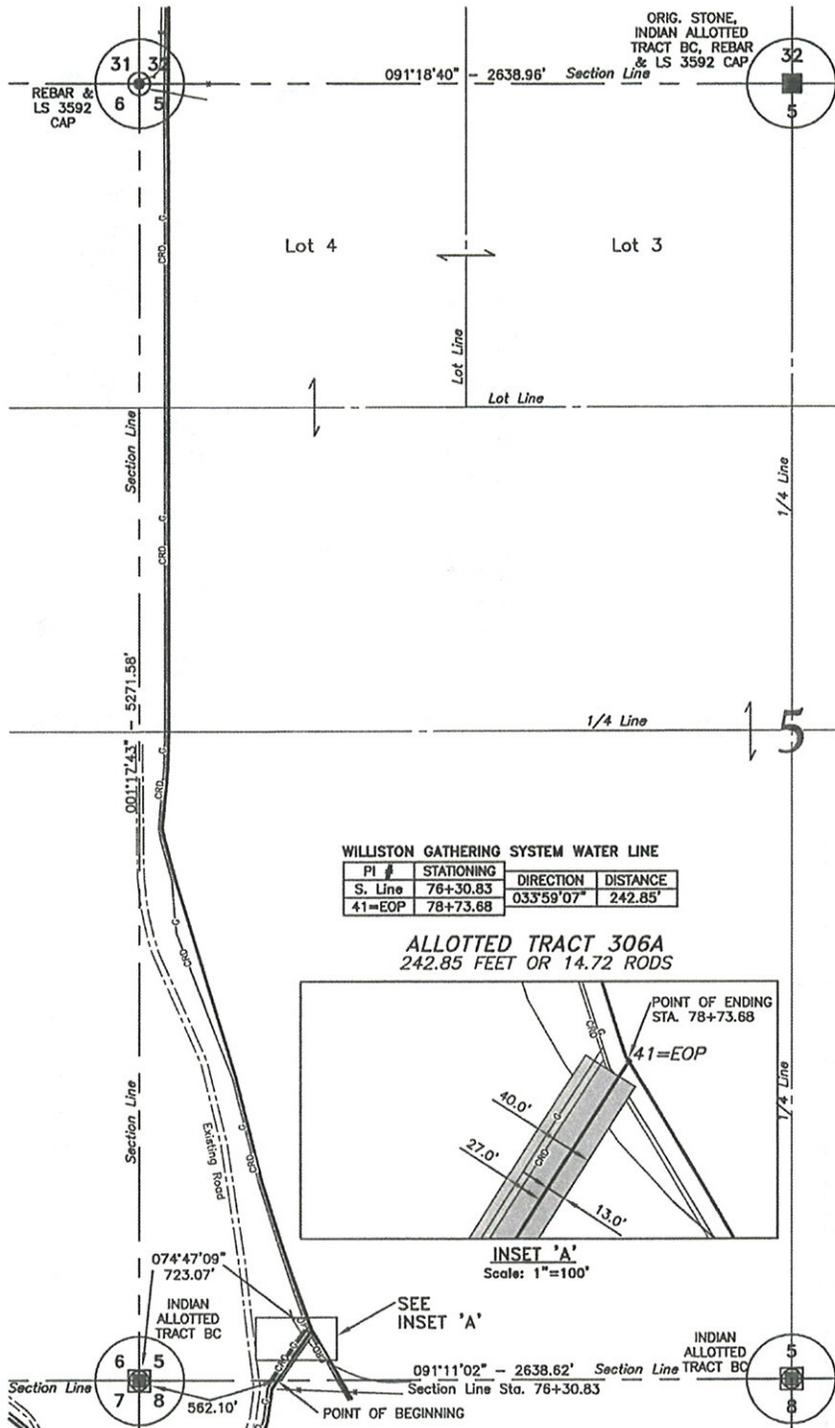
Kadmas, Lee & Jackson 2011

 Kadmas Lee & Jackson Registered Surveyors P.O. Box 100 Denham Springs, LA 70805	 OEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80285-1050	DRAWN BY: E. White	CHECKED BY: M. White	DATE: 10/17/2011	REV:
		OEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE W1/2W1/2NW1/4 OF SEC. 8, T.149N., R.90W.			

DWG NO. 3709480BAS05	JOB NO. 3709480	SCALE: 1"=600' TYPICAL SHEET: B-149-80-A
SHEET 5 OF 34		

LAYOUT: MNW_2-149-80

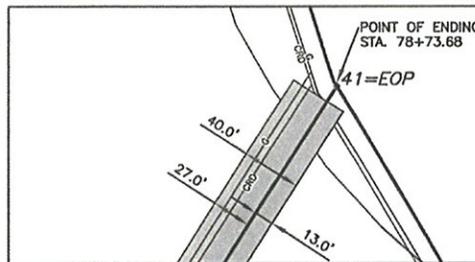
ALLOTTED TRACT 306A
 SW1/4SW1/4 OF SECTION 5, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

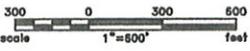
PI #	STATIONING	DIRECTION	DISTANCE
S. Line	76+30.83	033°59'07"	242.85'
41=EOP	78+73.68		

ALLOTTED TRACT 306A
 242.85 FEET OR 14.72 RODS



INSET 'A'
 Scale: 1"=100'

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 6 OF 34

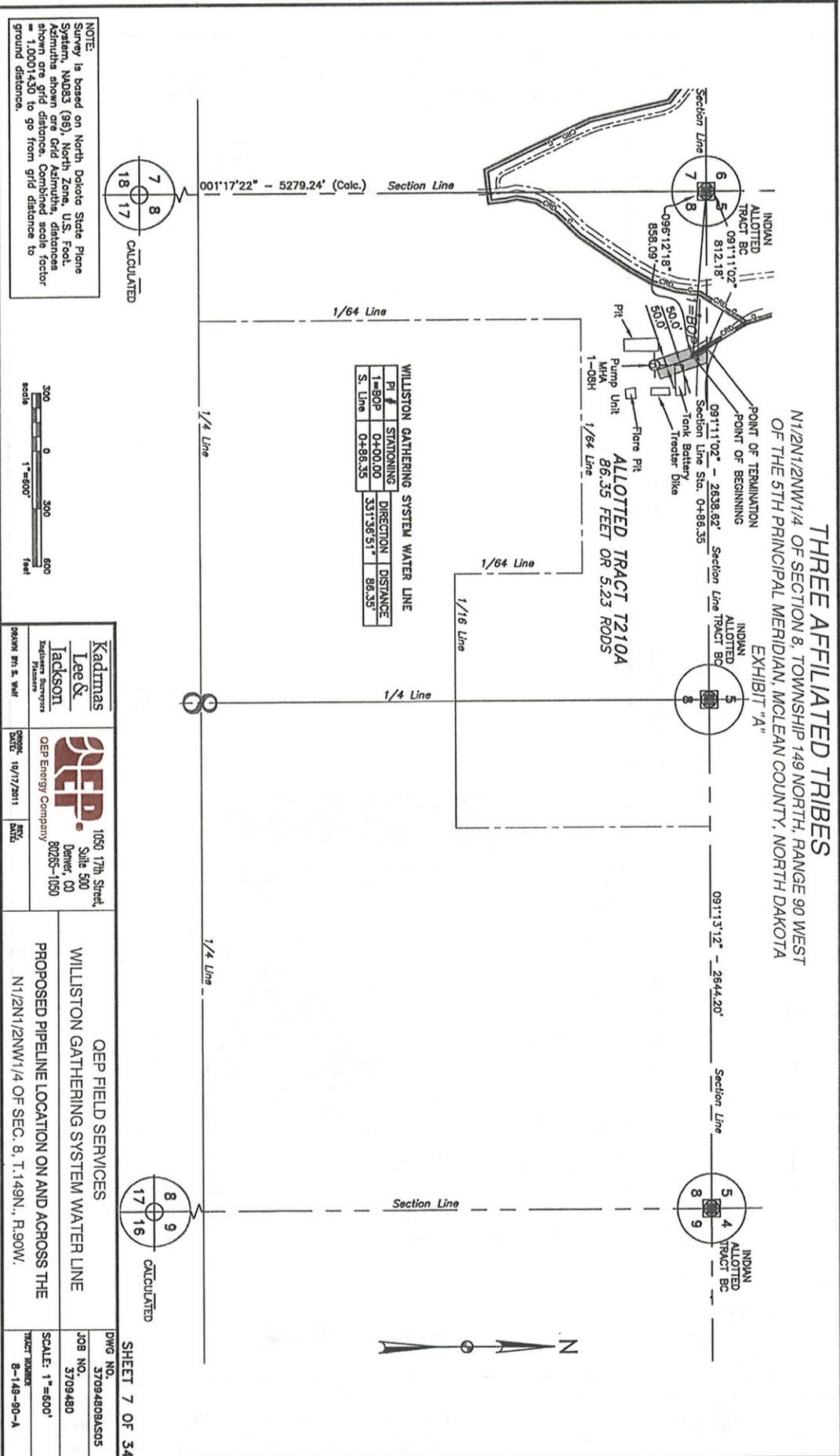
Kadmas Lee & Jackson
 Engineers Surveyors
 Planners

QEP Energy Company
 1050 17th Street,
 Suite 500
 Denver, CO
 80265-1050

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 SW1/4SW1/4 OF SEC. 5, T.149N., R.90W.

DWG NO.
 3709480BAS05
 JOB NO.
 3709480
 SCALE: 1"=600'
 TRACT NUMBER
 5-149-90-A

THREE AFFILIATED TRIBES
 N1/2N1/2NW1/4 OF SECTION 8, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



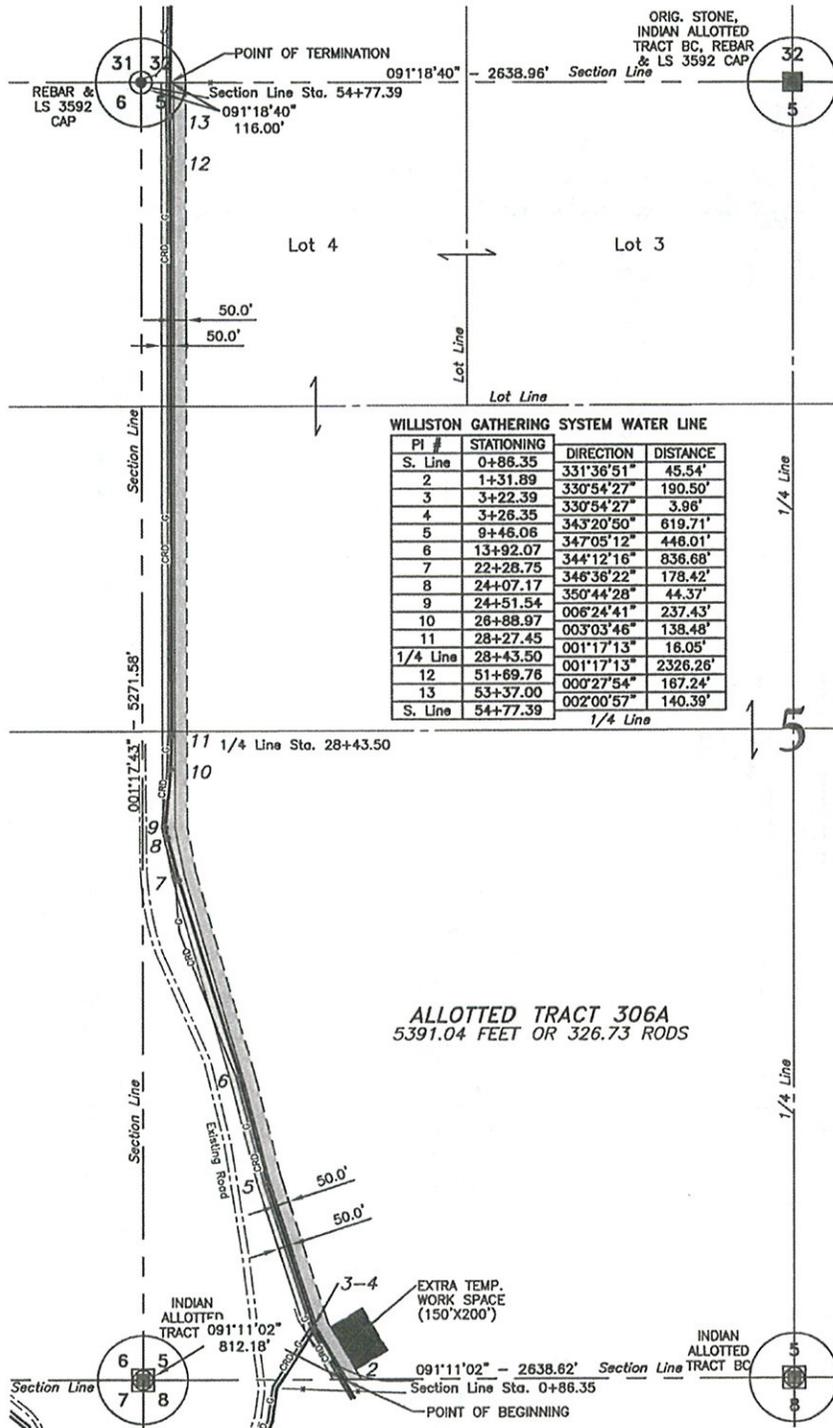
Oct 17, 2011 - 5:43pm - J:\verified\Question\3709480\CAD01\EP\3709480b05.DWG

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Kadmas Lee & Jackson Engineers Surveyors 1080 17th Street, Suite 500 Denver, CO 80205-1080	 QEP Energy Company 19/17/2011	1080 17th Street, Suite 500 Denver, CO 80205-1080	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE N1/2N1/2NW1/4 OF SEC. 8, T.149N., R.90W.	DWG NO. 3709480	JOB NO. 3709480	SCALE: 1"=500' TRACT NUMBER 8-149-90-A

LAYOUT: NNNW_B-149-90

ALLOTTED TRACT 306A
 W1/2 OF SECTION 5, TOWNSHIP 149 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



PI #	STATIONING	DIRECTION	DISTANCE
S. Line	0+86.35		
2	1+31.89	331°36'51"	45.54'
3	3+22.39	330°54'27"	190.50'
4	3+26.35	330°54'27"	3.96'
5	9+46.06	343°20'50"	619.71'
6	13+92.07	347°05'12"	446.01'
7	22+28.75	344°12'16"	836.68'
8	24+07.17	346°36'22"	178.42'
9	24+51.54	350°44'28"	44.37'
10	28+88.97	006°24'41"	237.43'
11	28+27.45	003°03'46"	138.48'
1/4 Line	28+43.50	001°17'13"	16.05'
12	51+69.76	001°17'13"	2326.26'
13	53+37.00	000°27'54"	167.24'
S. Line	54+77.39	002°00'57"	140.39'

ALLOTTED TRACT 306A
 5391.04 FEET OR 326.73 RODS

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



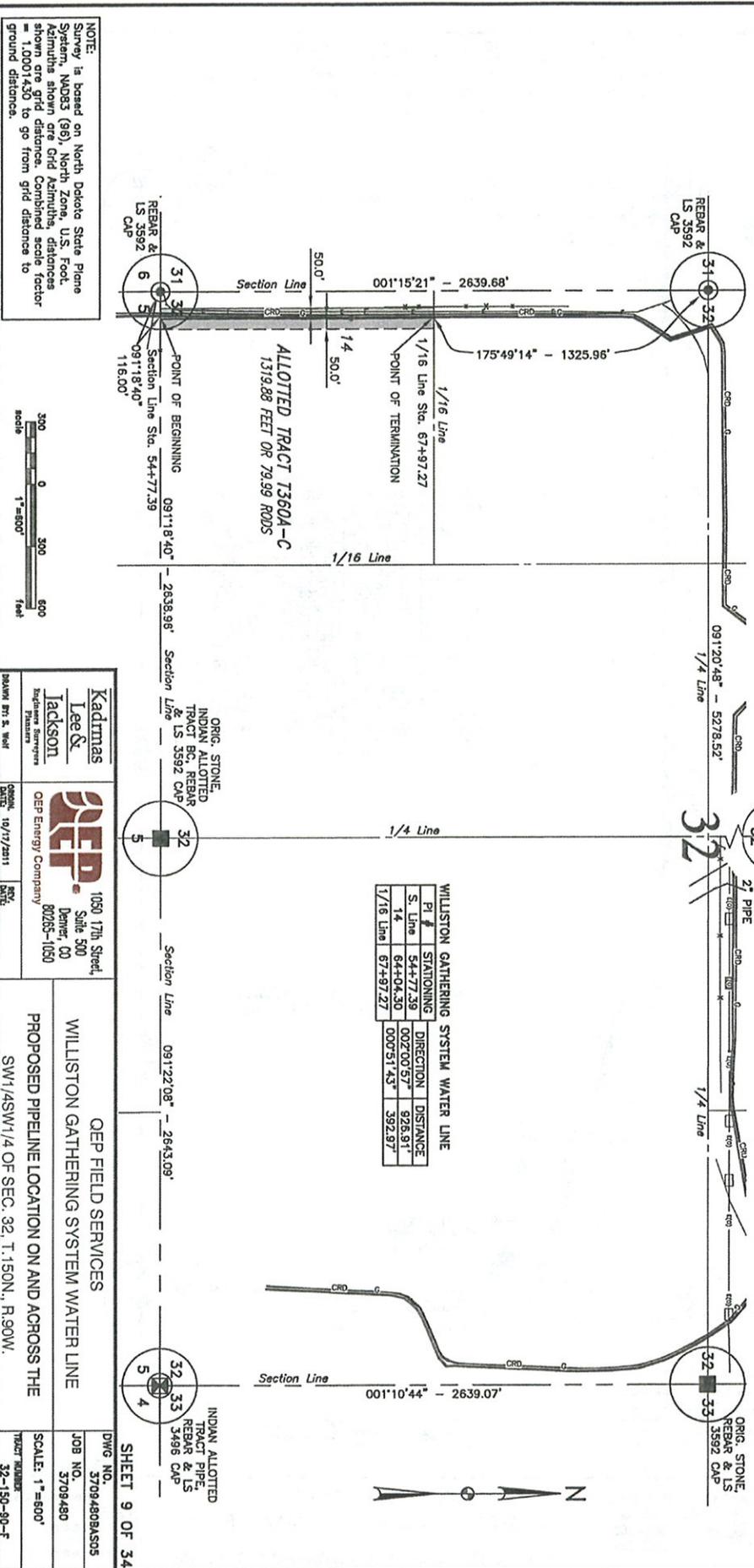
SHEET 8 OF 34

Kadmas Lee & Jackson
 Engineers Surveyors Planners
 1050 17th Street, Suite 500
 Denver, CO 80265-1050
QEP Energy Company

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 W1/2 OF SEC. 5, T.149N., R.90W.

DWG NO. 3709480BAS05
 JOB NO. 3709480
 SCALE: 1"=600'
 TRACT NUMBER 5-149-90-A

THREE AFFILIATED TRIBES
 SW1/4SW1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, McLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
14	54+77.39	002°00'57"	926.81'
14	64+04.30	000°51'43"	392.97'
14	67+97.27		

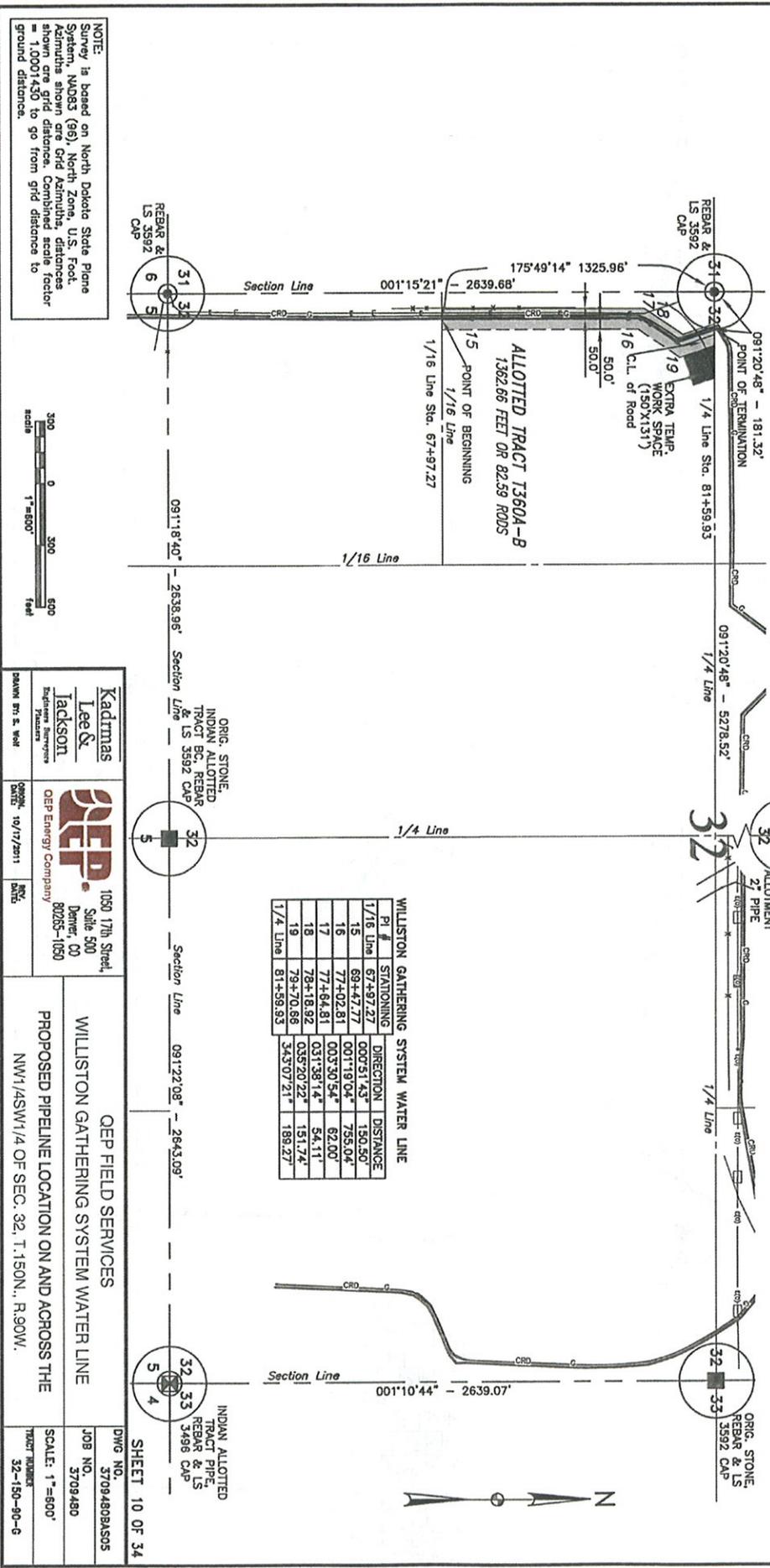
Kadimas Lee & Jackson Registered Surveyors	 QEP QEP Energy Company	1080 17th Street, Suite 300 Denver, CO 80265-1050
DRAWN BY: S. Wolf CHECKED: 10/17/2011 DATE:	SHEET NO. 32 OF 34	DWG NO. 3708480A505 JOB NO. 3708480 SCALE: 1" = 500' TYPICAL NUMBER 32-150-90-F
PROPOSED PIPELINE LOCATION ON AND ACROSS THE SW1/4SW1/4 OF SEC. 32, T.150N, R.90W.		QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE

NOTE: Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.

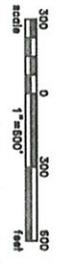
Oct. 17, 2011 - 5:43pm - J:\offfield\Questor\3708480\CADD\EP\3708480B505.DWG

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THREE AFFILIATED TRIBES
 NW1/4SW1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, McLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.

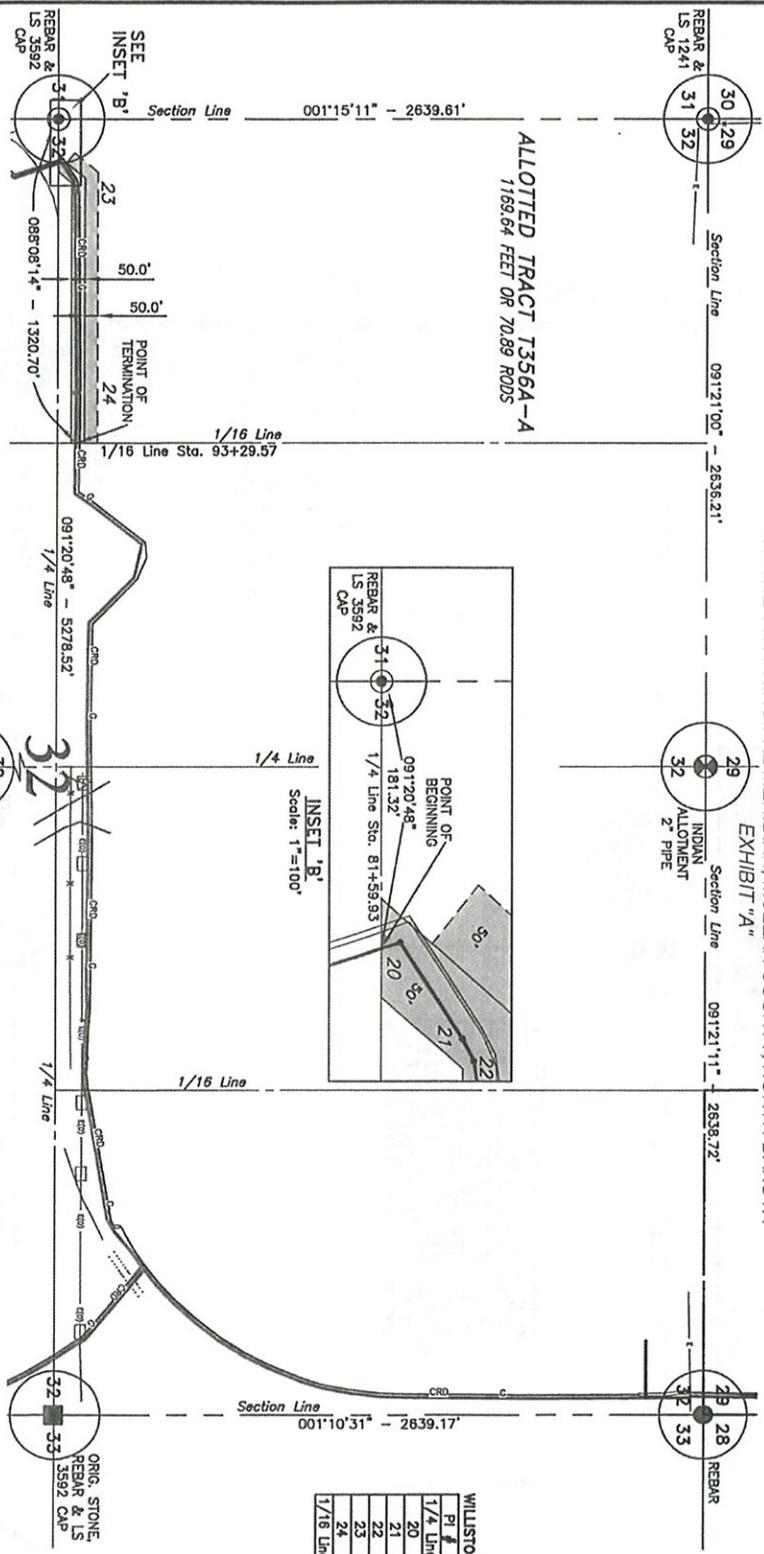


Oct. 17, 2011 - 5:44pm - J:\officed\Quester\3709480_CADD\EPN_3709480.dwg

© Kadmas, Lee & Jackson 2011

Kadmas Lee & Jackson Engineers Surveyors 1030 17th Street, Suite 500 Denver, CO 80205-1050	 QEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE NW1/4SW1/4 OF SEC. 32, T.150N., R.90W.
DRAWN BY: S. WARD CHECKED BY: 10/17/2011 DATE:	DWG NO.: 3709480BAS05 JOB NO.: 3709480 SCALE: 1"=600' SHEET NUMBER: 32-150-90-6	DWG NO.: 3709480BAS05 JOB NO.: 3709480 SCALE: 1"=600' SHEET NUMBER: 32-150-90-6

THREE AFFILIATED TRIBES
 W1/2NW1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"

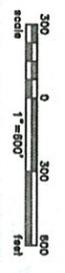


ALLOTTED TRACT T356A-A
 1169.64 FEET OR 70.89 RODS

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	81+59.93	S43°07'21"	13.58'
20	81+73.51	098°38'40"	17.78'
21	82+51.29	064°00'44"	17.18'
22	82+68.47	083°03'27"	39.83'
23	83+08.30	090°48'02"	815.62'
24	81+23.92	091°54'57"	205.65'
1/16 Line	93+29.57		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



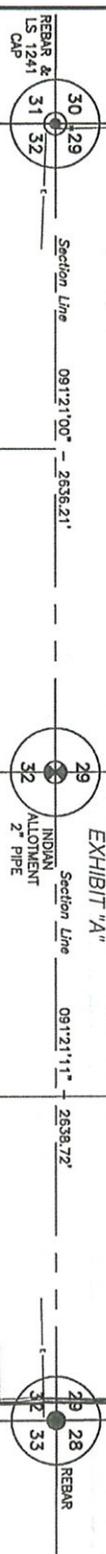
Oct. 17, 2011 - 5:44pm - J:\offroad\Questor\3709480\CADD\EP\3709480bend5.dwg

Kadimas Lee & Jackson Registered Professional Engineers	1050 17th Street, Suite 500 Denver, CO 80202-1050
	QEP Energy Company 80263-1050
DRAWN BY: A. Vahl DATE: 10/17/2011 REV. DATE:	SHEET 11 OF 34 DWG NO. 3709480BAS05 JOB NO. 3709480

QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE W1/2NW1/4 OF SEC. 32, T.150N., R.90W.	SCALE: 1"=600' TYPICAL NUMBER: 32-150-90-C LAYOUT: NINE, 32-150-90
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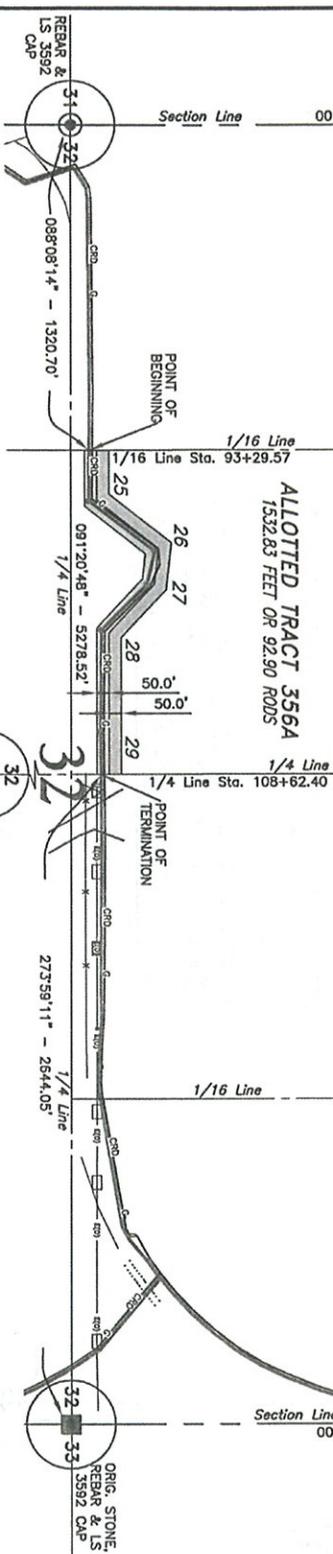
ALLOTTED TRACT 356A
 E1/2NW1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA



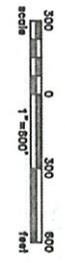
WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/16 Line	93+29.57	091°54'57"	205.52'
25	95+35.09	036°36'31"	339.05'
26	98+74.14	104°25'54"	140.41'
27	100+14.55	136°23'16"	261.50'
28	102+76.05	092°02'23"	415.21'
29	106+81.26	090°43'09"	171.14'
1/4 Line	108+62.40		

ALLOTTED TRACT 356A
 1532.83 FEET OR 92.90 RODS



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. All points shown are grid coordinates unless otherwise noted. Calculating stationing factor = 1.0001430 to go from grid distance to ground distance.

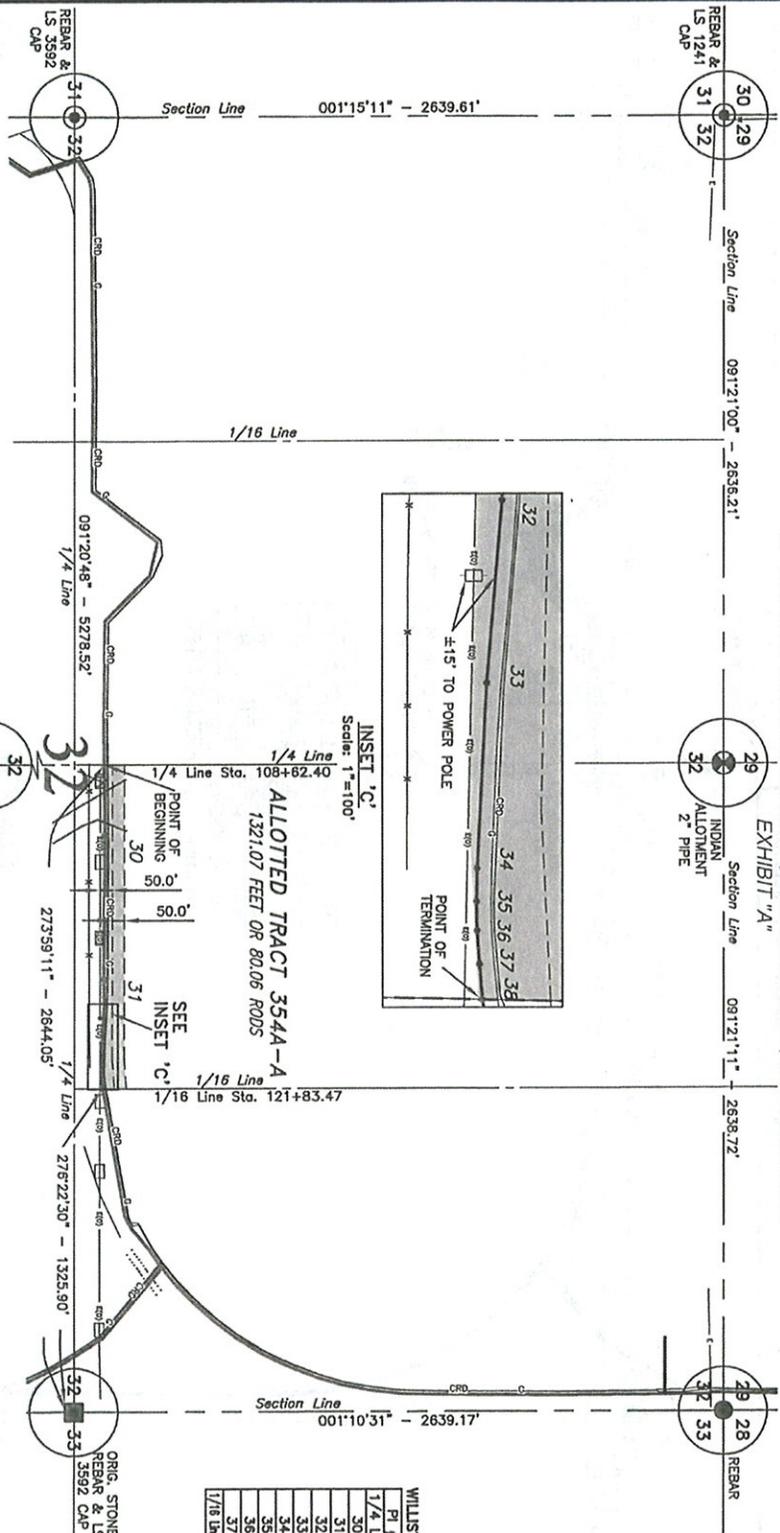


Kadmias Lee & Jackson Registered Professional Surveyors	1090 17th Street, Suite 500 Denver, CO 80202-1050
	OEP Energy Company
DRAWN BY: E. Wolf CHECKED BY:	DATE: 10/17/2011 REV:

OEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2NW1/4 OF SEC. 32, T.150N., R.90W.	SHEET 12 OF 34 DWG NO. 370948DAS05 JOB NO. 3709480 SCALE: 1"=600' PROJECT NUMBER 32-150-90-D LAYOUT: DWG 32-150-90
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ALLOTTED TRACT 354A-A
 W1/2NE1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA

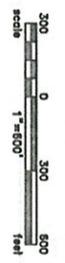
EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	108+62.40	090°43'09"	289.57'
30	111+51.97	091°48'28"	588.85'
31	117+38.82	090°17'18"	104.53'
32	118+43.85	094°55'57"	124.33'
33	119+67.98	093°05'25"	128.36'
34	120+94.34	091°00'45"	22.28'
35	121+16.62	089°01'08"	19.76'
36	121+36.38	085°56'57"	23.09'
37	121+59.47	085°13'15"	24.00'
1/16 Line-38	121+83.47		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



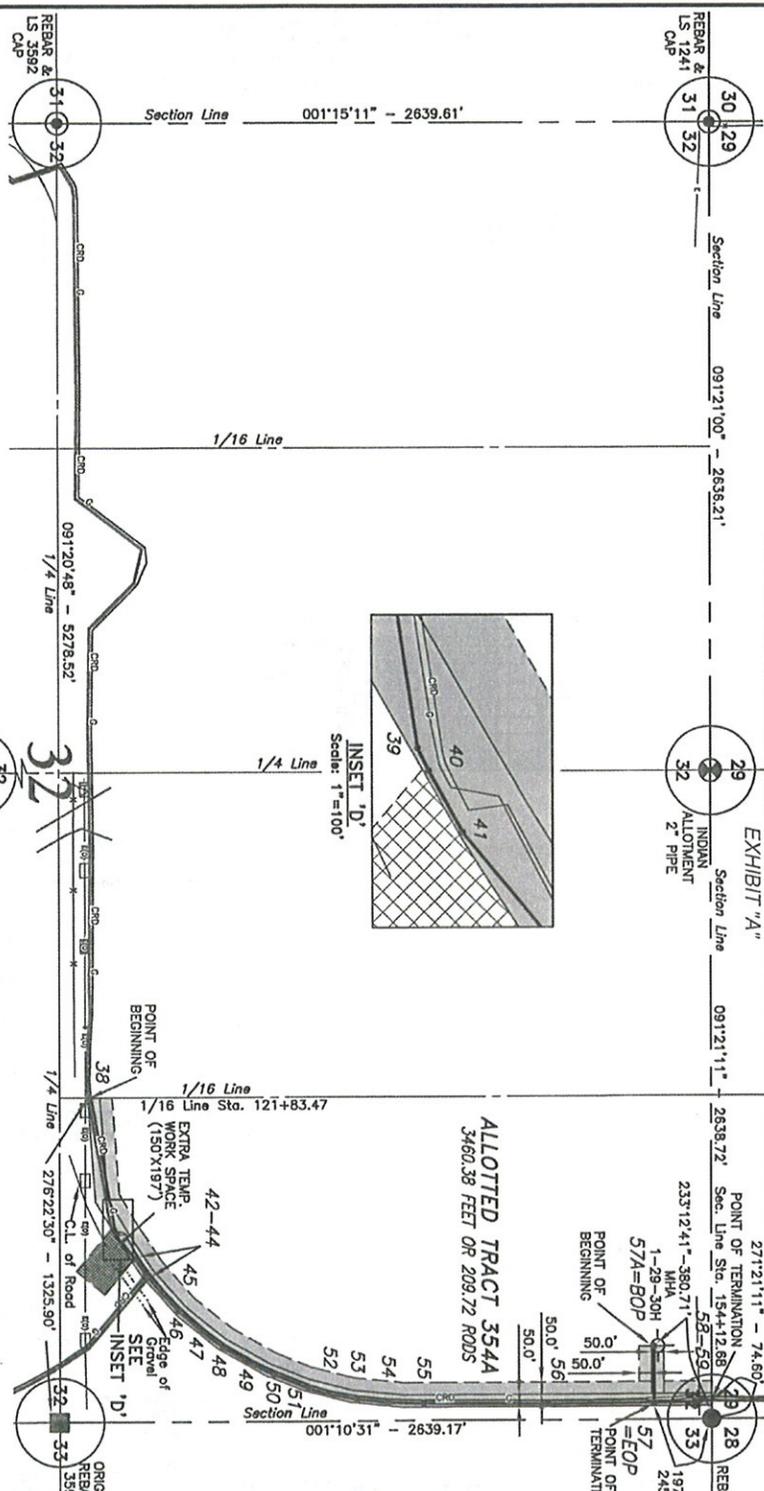
Oct. 17, 2011 - 5:44pm - J:\office\Quarter\3709480\CADD\EP\3709480B-05.DWG

DRAWN BY: S. WEI KADIMAS Lee & Jackson Registered Surveyors Planners	OREGON DATE: 10/17/2011 REV. DATE:	1030 17th Street, Suite 500 Denver, CO 80202-1030 OEP Energy Company	PROPOSED PIPELINE LOCATION ON AND ACROSS THE W1/2NE1/4 OF SEC. 32, T.150N., R.90W.
OEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	JOB NO. 3709480	SCALE: 1"=600' PROJECT NUMBER 32-150-90-E	DWG NO. 3709480B-05

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THREE AFFILIATED TRIBES E1/2NE1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST OF THE 5TH PRINCIPAL MERIDIAN, McLEAN COUNTY, NORTH DAKOTA

EXHIBIT "A"



ALLOTTED TRACT 3544
3460.38 FEET OR 209.72 RODS

PI #	STATIONING	DIRECTION	DISTANCE
38	121+83.47	081°31'00"	525.60'
39	121+09.07	084°13'15"	17.17'
40	127+26.22	060°59'14"	47.43'
41	127+73.67	050°43'07"	106.04'
42	128+79.71	058°19'01"	76.26'
43	128+55.97	082°12'52"	15.95'
44	128+71.49	092°12'52"	78.57'
45	130+50.08	047°48'16"	105.42'
46	131+55.48	042°57'12"	126.68'
47	132+82.16	038°24'11"	107.41'
48	133+09.57	032°41'53"	127.27'
49	135+16.84	026°57'56"	107.06'
50	136+23.92	023°08'14"	147.04'
51	137+70.98	018°38'54"	85.29'
52	138+56.25	011°48'19"	117.83'
53	139+74.08	007°37'03"	128.29'
54	141+00.37	003°08'45"	147.03'
55	142+47.40	001°27'33"	504.90'
56	147+52.50	000°51'24"	484.29'
57	151+76.99	000°51'24"	167.13'
58	153+43.72	346°21'13"	21.78'
59	153+65.50	002°14'49"	47.18'
S. Line	154+12.68		

PI #	STATIONING	DIRECTION	DISTANCE
57A=BOF	0+00.00	091°24'17"	231.17'
57=EOB	2+31.17		

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



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Kadmas, Lee & Jackson 2011

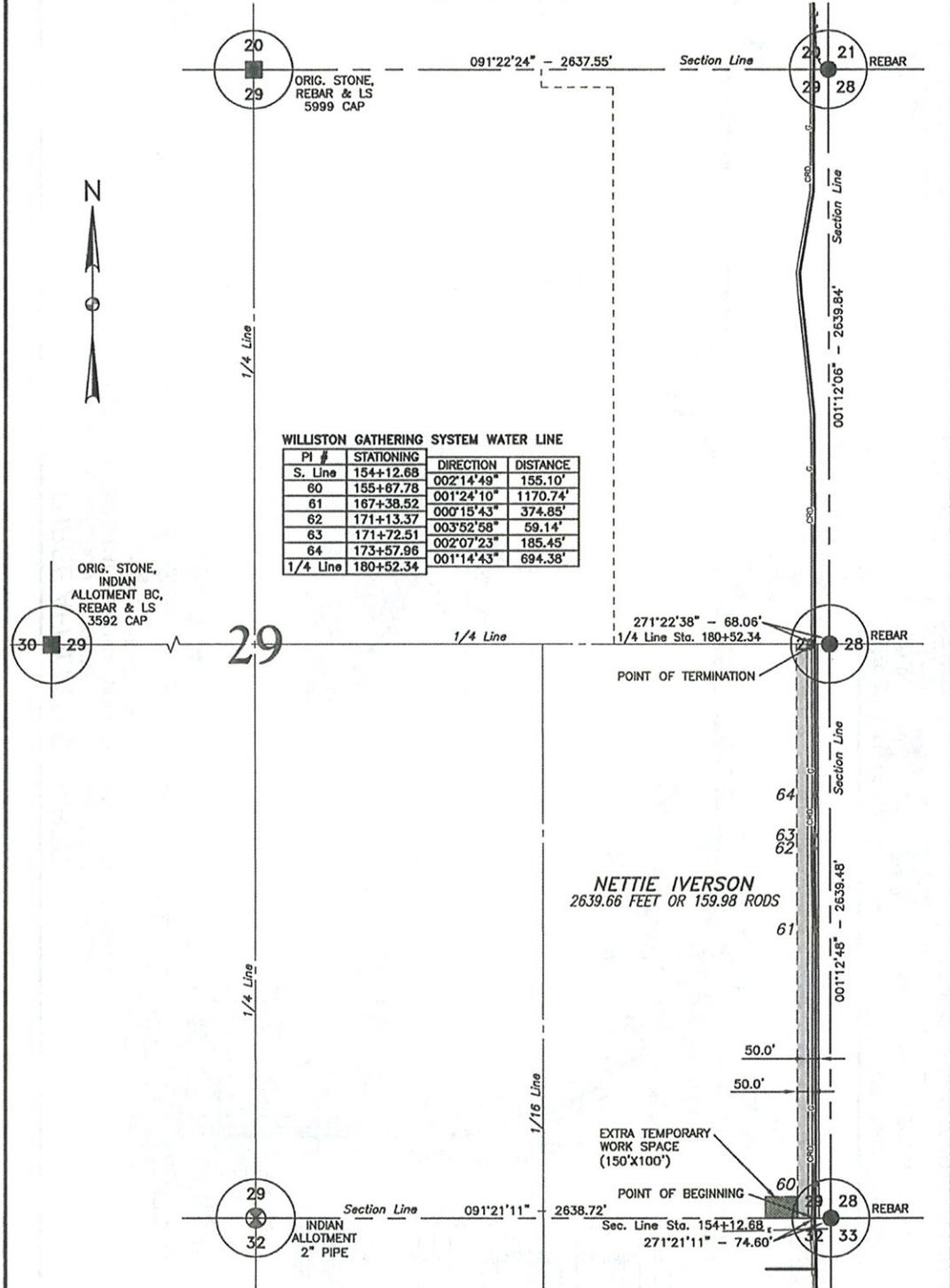
Kadmas
Lee & Jackson
Registered Surveyors
Professional Engrs. & Welds

OEP Energy Company
1090 17th Street,
Suite 500
Denver, CO
80255-1050

WILLISTON GATHERING SYSTEM WATER LINE
PROPOSED PIPELINE LOCATION ON AND ACROSS THE
E1/2NE1/4 OF SEC. 32, T.150N., R.90W.

SHEET 14 OF 34
DWG NO. 3709480BAS05
JOB NO. 3709480
SCALE: 1"=800'
TRACED NUMBER 32-150-90-A
LAYOUT: DEC. 28, 199-90 2

NETTIE IVERSON
 E1/2SE1/4 OF SECTION 29, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



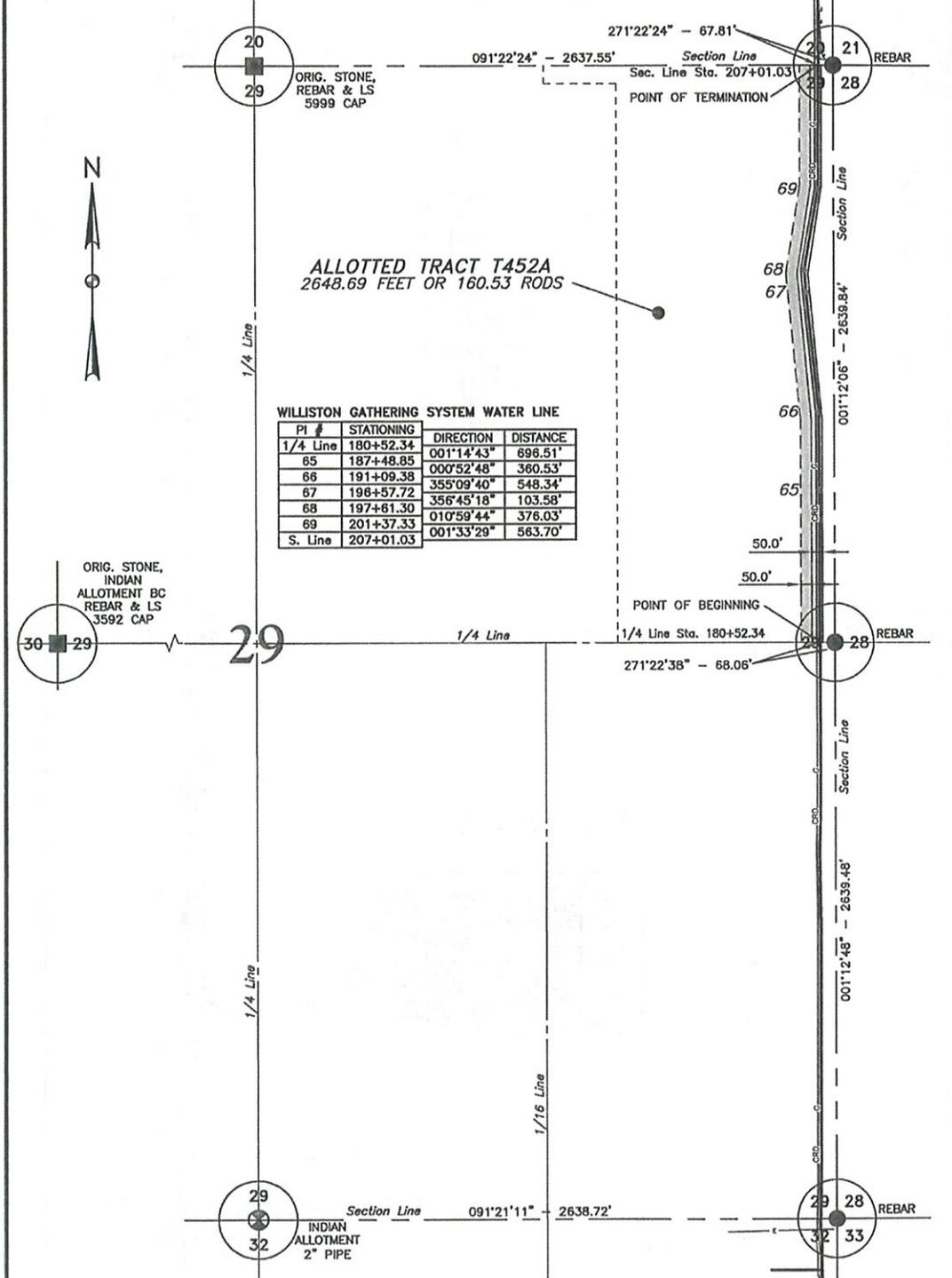
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 15 OF 34

 Engineers Surveyors Planners	 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2SE1/4 OF SEC. 29, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. Wolf	ORIGINAL DATE: 10/17/2011	REV. DATE:	SCALE: 1"=600' TRACT NUMBER 29-150-90-B

THREE AFFILIATED TRIBES
 E1/2E1/2NE1/4, E1/2W1/2E1/2NE1/4, and N1/2N1/2NW1/4NW1/4NE1/4NE1/4
 OF SECTION 29, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



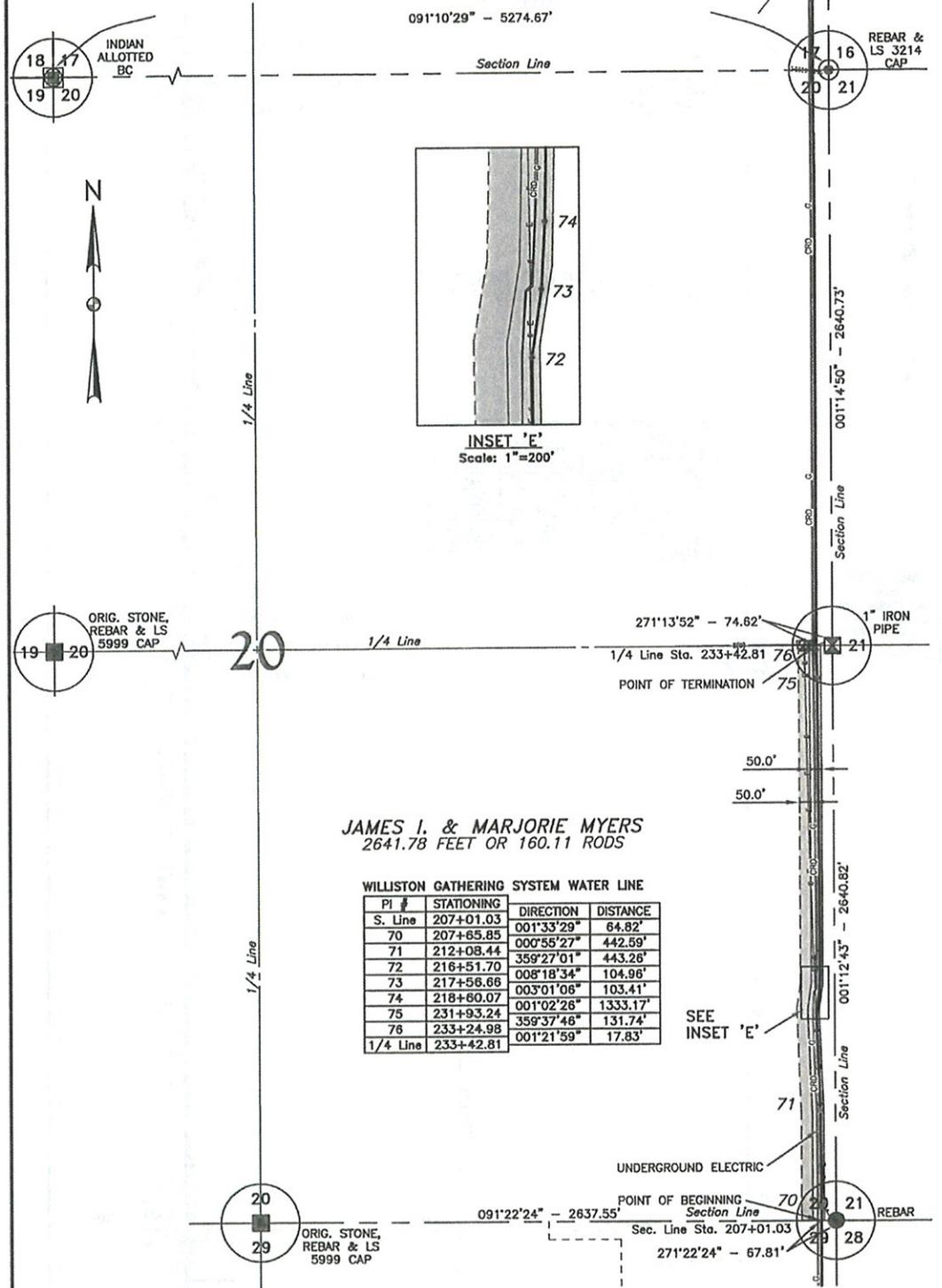
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 16 OF 34

 Engineers Surveyors Planners	 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2E1/2NE1/4, E1/2W1/2E1/2NE1/4, and N1/2N1/2NW1/4NW1/4NE1/4NE1/4 OF SEC. 29, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. Wolf	ORIGIN. DATE: 10/17/2011	REV. DATE:	SCALE: 1"=600' TRACT NUMBER 29-150-90-A

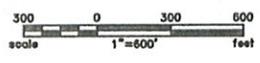
JAMES I. and MARJORIE MYERS
 SE 1/4 OF SECTION 20, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line	207+01.03	001°33'29"	64.82'
70	207+65.85	000°55'27"	442.59'
71	212+08.44	359°27'01"	443.26'
72	216+51.70	008°18'34"	104.96'
73	217+56.66	003°01'06"	103.41'
74	218+60.07	001°02'26"	1333.17'
75	231+93.24	359°37'48"	131.74'
76	233+24.98	001°21'59"	17.83'
1/4 Line	233+42.81		

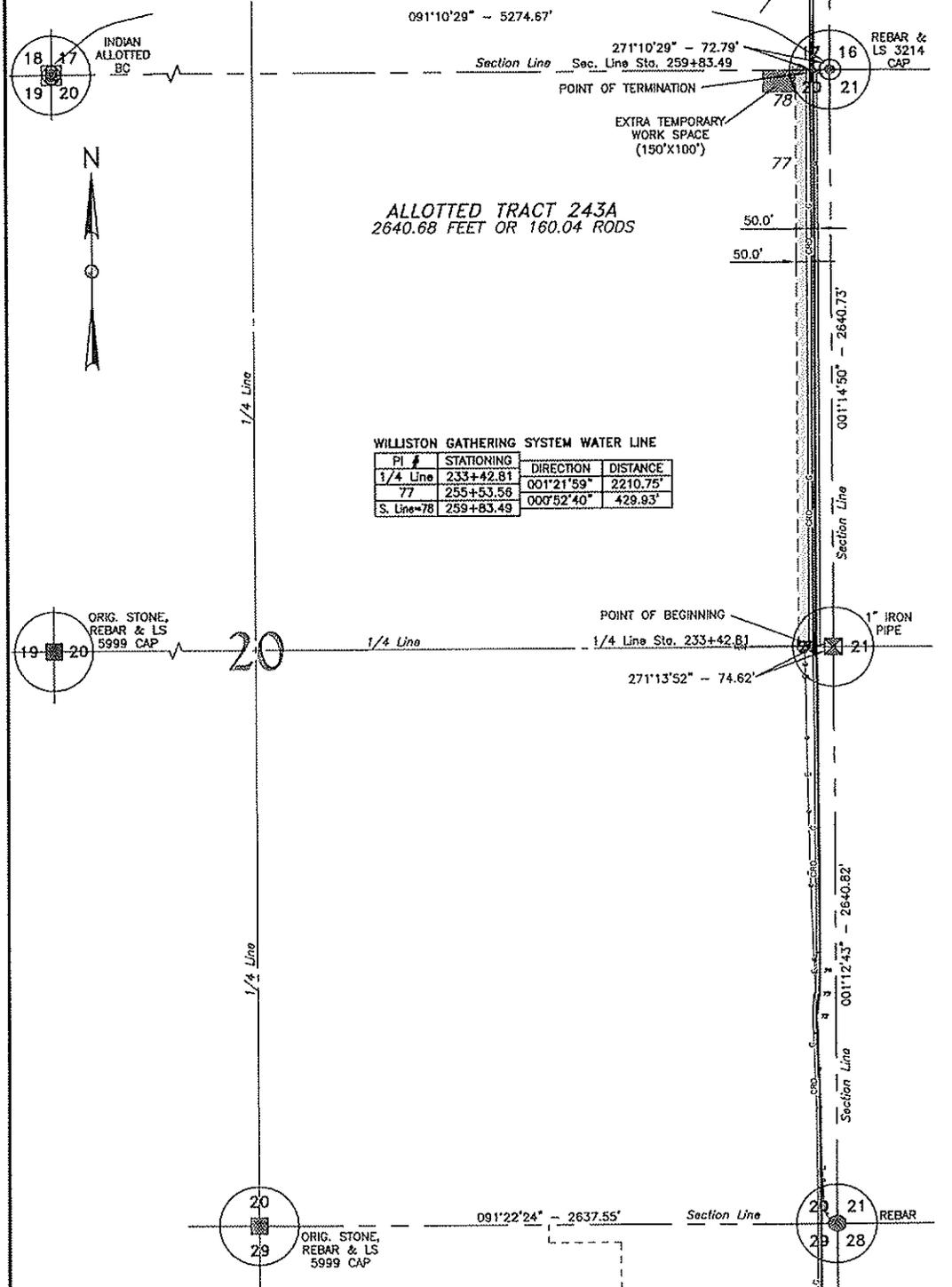
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 17 OF 34

 Engineers Surveyors Planners	 QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE SE 1/4 OF SEC. 20, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. Wolf ORIGINAL DATE: 10/17/2011 REV. DATE:		SCALE: 1"=600' TRACT NUMBER 20-150-90-B	SHEET 17 OF 34

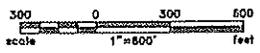
THREE AFFILIATED TRIBES
 NE 1/4 OF SECTION 20, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	233+42.81	001°21'59"	2210.75'
77	255+53.56	000°52'40"	429.93'
S. Line=78	259+83.49		

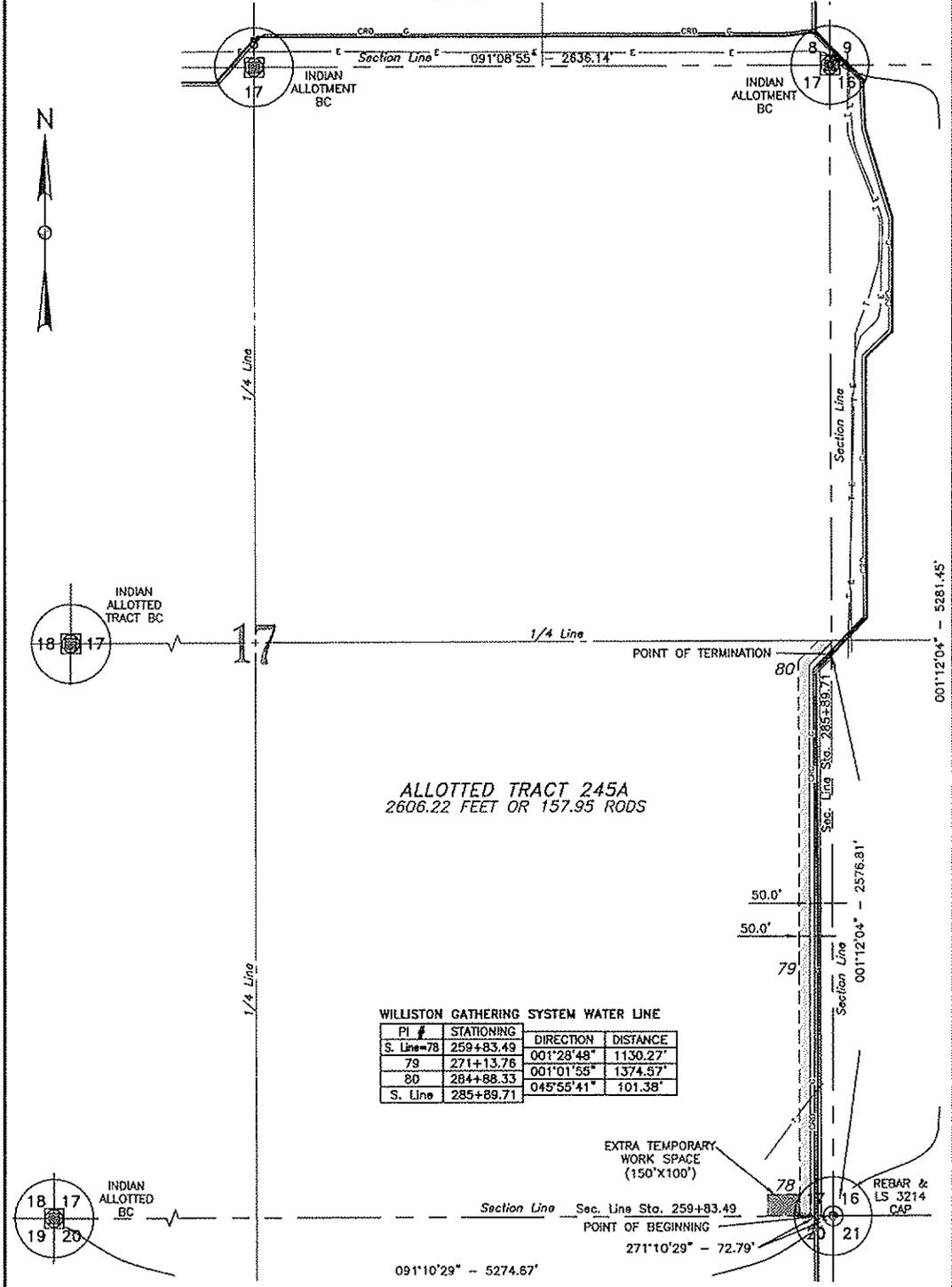
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



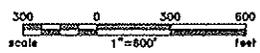
SHEET 18 OF 34

 Engineers Surveyors Planners	 QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE NE 1/4 OF SEC. 20, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. Wahl	DESIGN DATE: 10/17/2011	REV. DATE:	SCALE: 1"=600' TRACT NUMBER 20-150-90-A

ALLOTTED TRACT 245A
 SE 1/4 OF SECTION 17, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (95), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.

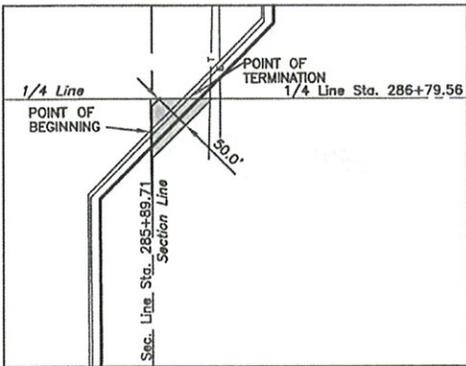
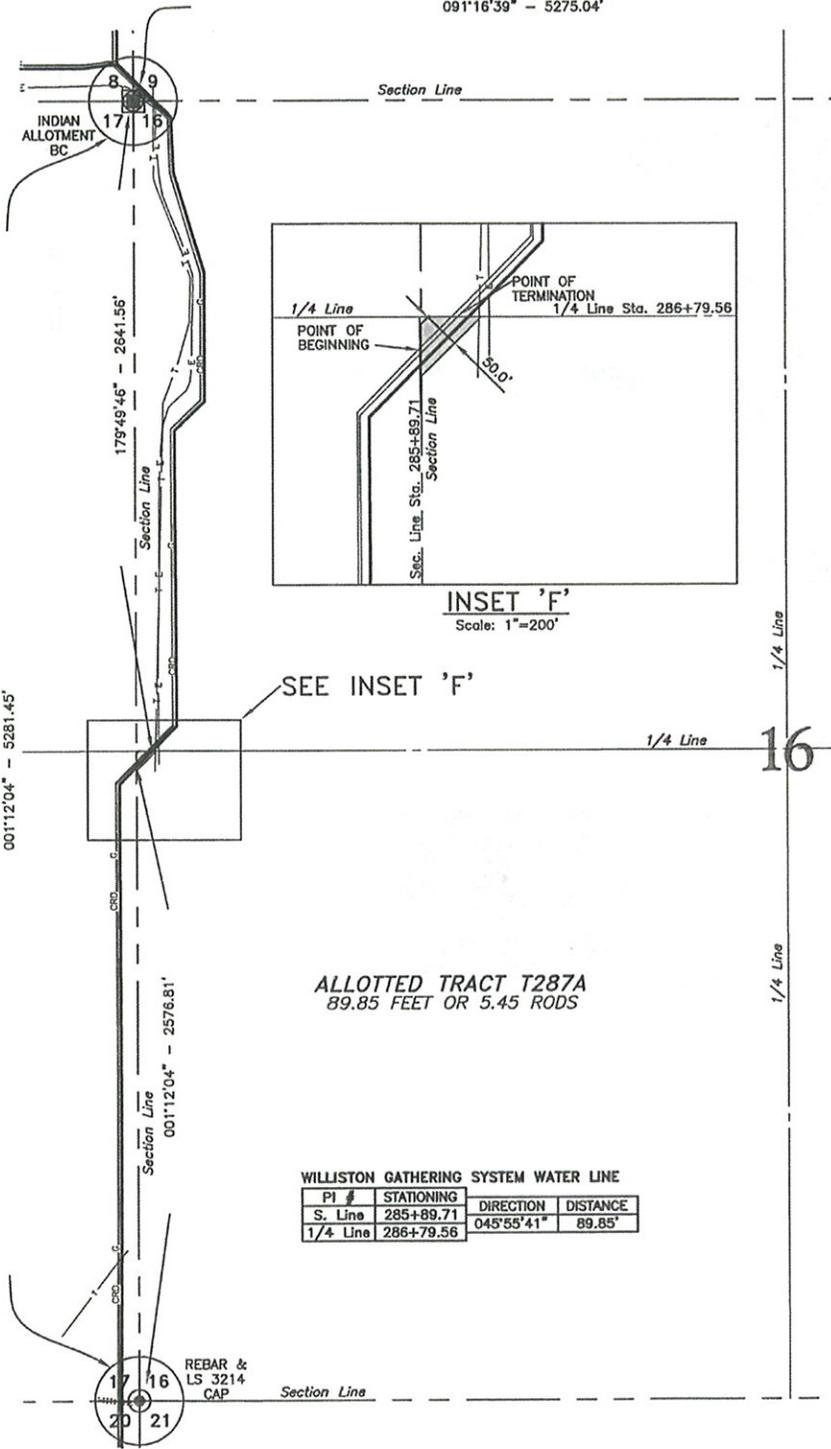


SHEET 19 OF 34

 Engineers Surveyors Planners	 QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE SE 1/4 OF SEC. 17, T. 150N., R. 90W.	JOB NO. 3709480
DRAWN BY: S. Wolf	ORIGIN DATE: 10/17/2011	REV. DATE:	SCALE: 1"=600' TRACT NUMBER 17-150-90-B

ALLOTTED TRACT T287A
 SW1/4 OF SECTION 16, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"

091°16'39" - 5275.04'



INSET 'F'
 Scale: 1"=200'

SEE INSET 'F'

ALLOTTED TRACT T287A
 89.85 FEET OR 5.45 RODS

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line	285+89.71	045°55'41"	89.85'
1/4 Line	286+79.58		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 20 OF 34

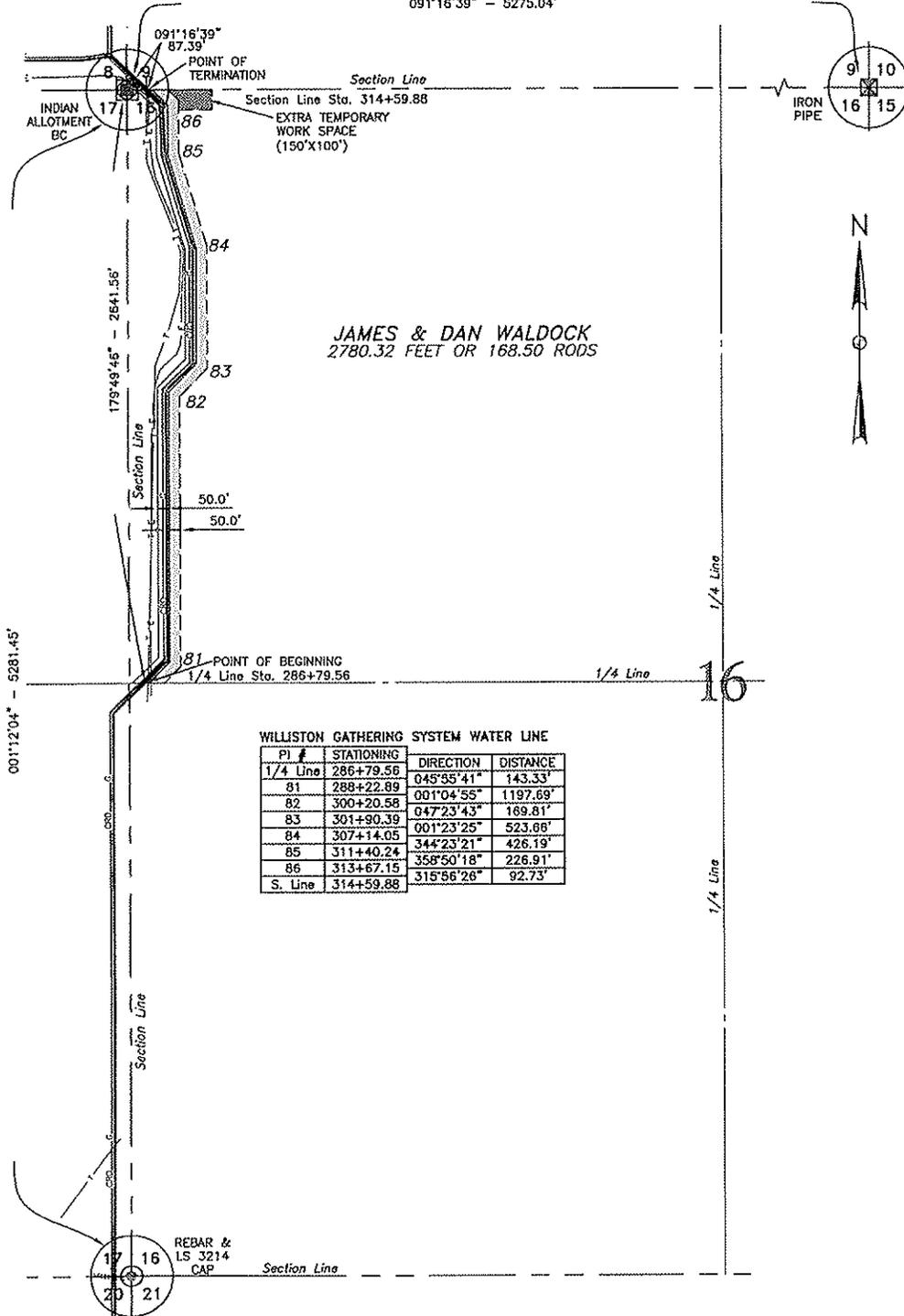
Kadmas Lee & Jackson
 Engineers Surveyors Planners
 1050 17th Street, Suite 500
 Denver, CO 80265-1050
 QEP Energy Company

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 SW1/4 OF SEC. 16, T.150N., R.90W.

DWG NO.	3709480BAS05
JOB NO.	3709480
SCALE:	1"=600'
TRACT NUMBER	16-150-90-B

JAMES & DAN WALDOCK
 NW1/4 OF SECTION 16, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"

091°16'39" - 5275.04'

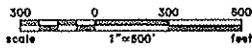


JAMES & DAN WALDOCK
 2780.32 FEET OR 168.50 RODS

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	286+79.56	045°55'41"	143.33'
81	288+22.89	001°04'55"	1197.69'
82	300+20.58	047°23'43"	189.81'
83	301+90.39	001°23'25"	523.66'
84	307+14.05	344°23'21"	426.19'
85	311+40.24	358°50'18"	226.91'
86	313+67.15	315°56'28"	92.73'
S. Line	314+59.88		

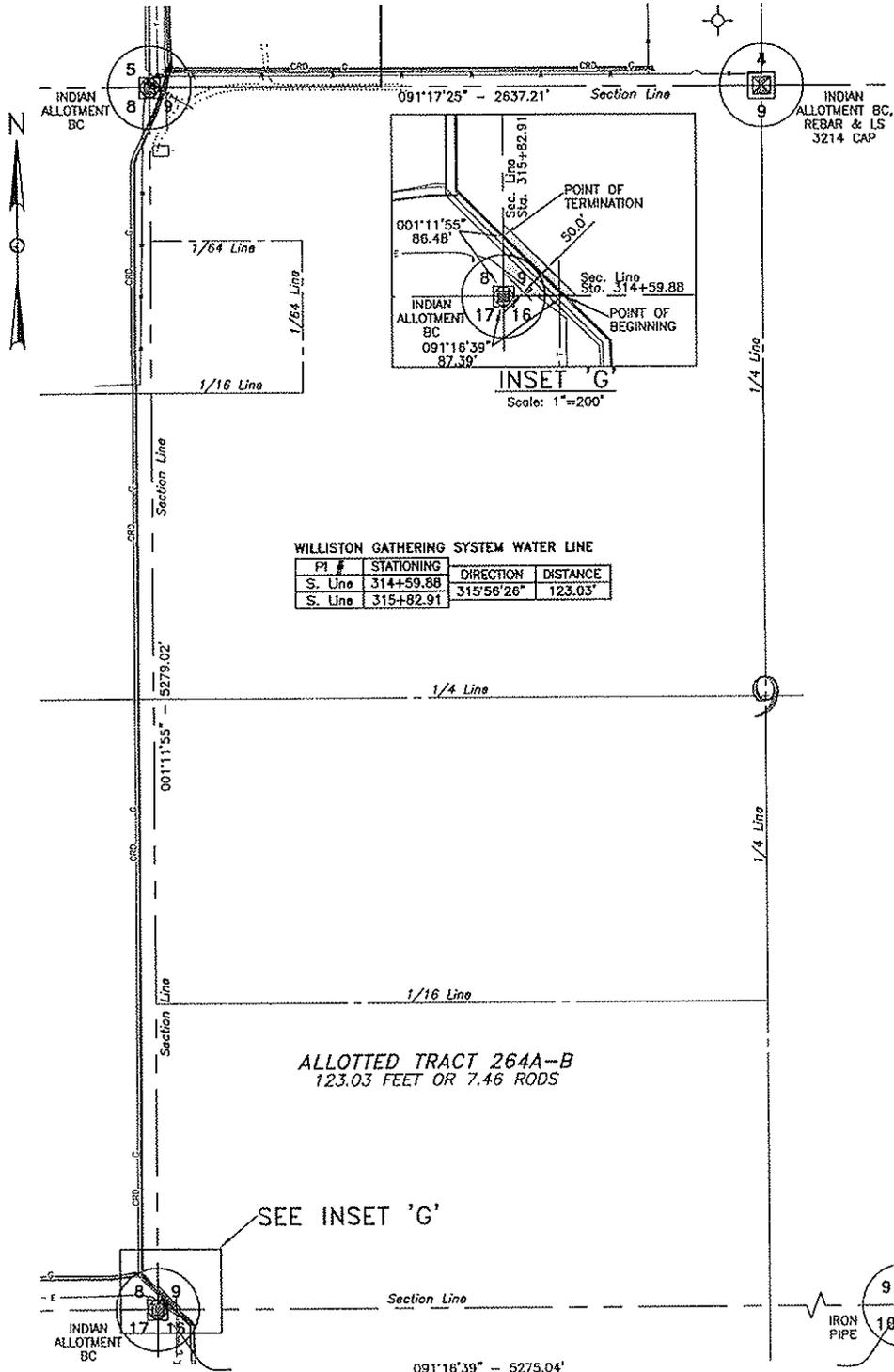
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



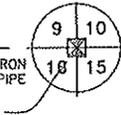
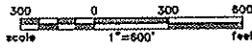
SHEET 21 OF 34

 Engineers Surveyors Planners DRAWN BY: S. Wolf ORIGINAL DATE: 10/17/2011 REV. DATE:	 1050 17th Street, Suite 500 Denver, CO 80265-1050 QEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE NW1/4 OF SEC. 16, T.150N., R.90W.	JOB NO. 3709480
			SCALE: 1"=600' TRACT NUMBER 16-150-90-A

ALLOTTED TRACT 264A-B
 S1/2SW1/4 OF SECTION 9, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 22 OF 34

Kadmas Lee & Jackson
 Engineers Surveyors Planners

QEP Energy Company
 1050 17th Street, Suite 500
 Denver, CO 80265-1050

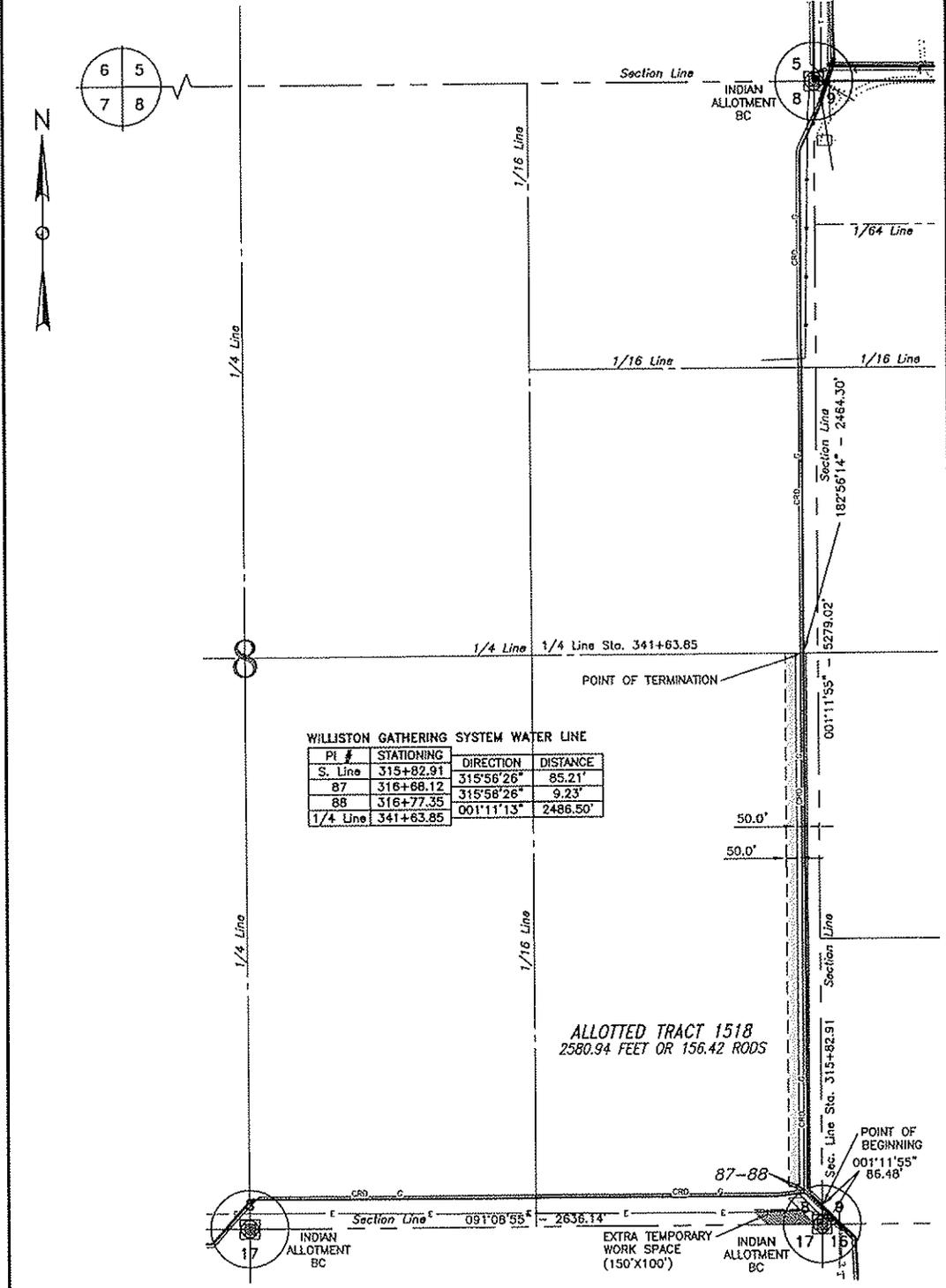
ORIGIN DATE: 10/17/2011
 REV. DATE:

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE

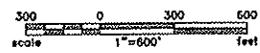
PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 S1/2SW1/4 OF SEC. 9, T.150N., R.90W.

DWG NO.	3709480BAS05
JOB NO.	3709480
SCALE:	1"=600'
TRACT NUMBER	9-150-90-A

ALLOTTED TRACT 1518
 E1/2SE1/4 OF SECTION 8, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



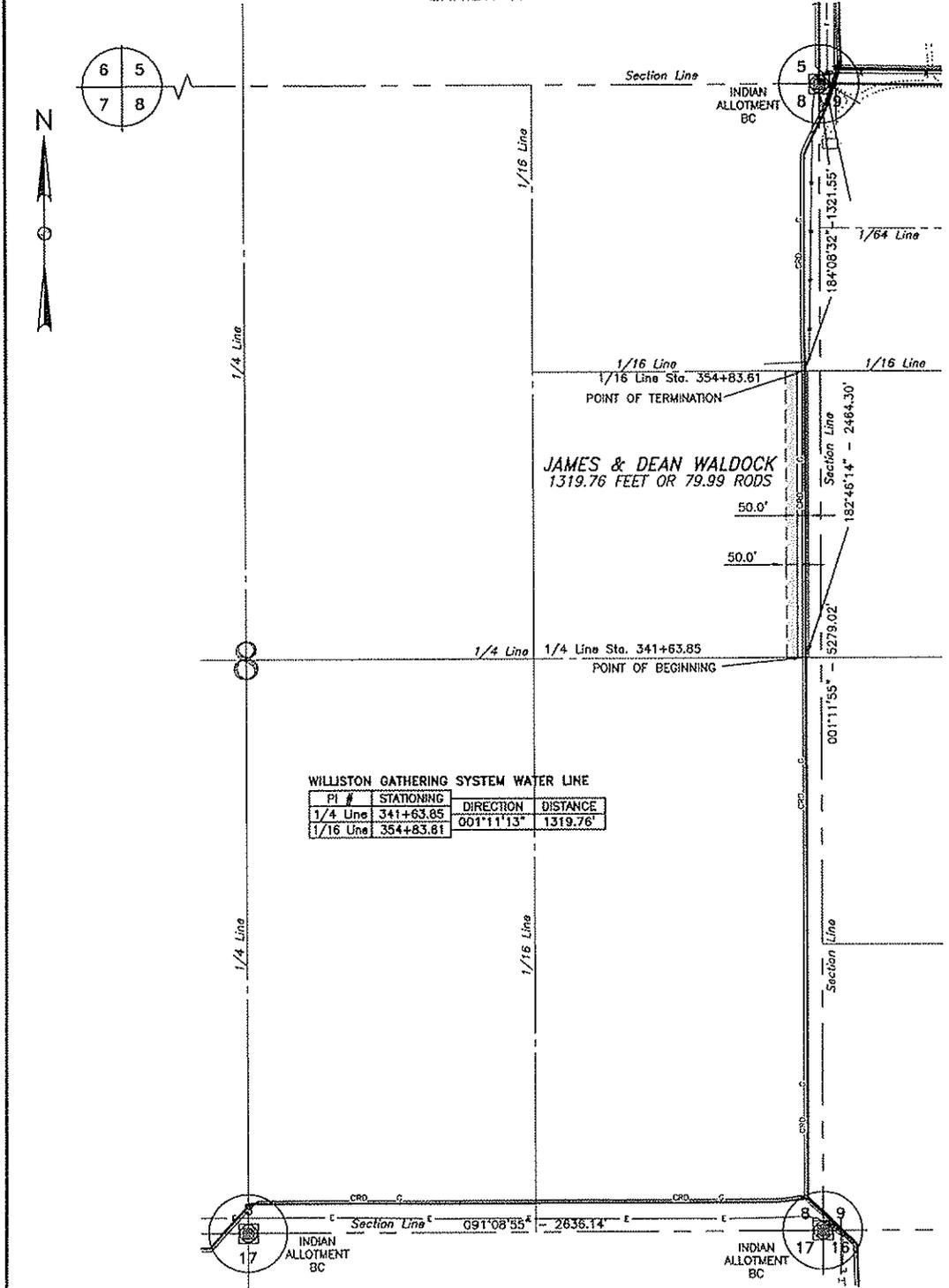
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Feet. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



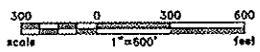
SHEET 23 OF 34

 Engineers Surveyors Planners 1050 17th Street, Suite 500 Denver, CO 80265-1050 QEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2SE1/4 OF SEC. 8, T.150N., R.90W.	DWG NO. 3709480BAS05 JOB NO. 3709480 SCALE: 1"=600' TRACT NUMBER 8-150-90-C
	DRAWN BY: S. Vahf CHECKED BY: [blank] DATE: 10/17/2011 PLOT DATE: [blank]	© Kadmas, Lee & Jackson 2011

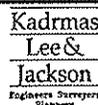
JAMES and DEAN WALDOCK
 SE1/4NE1/4 OF SECTION 8, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



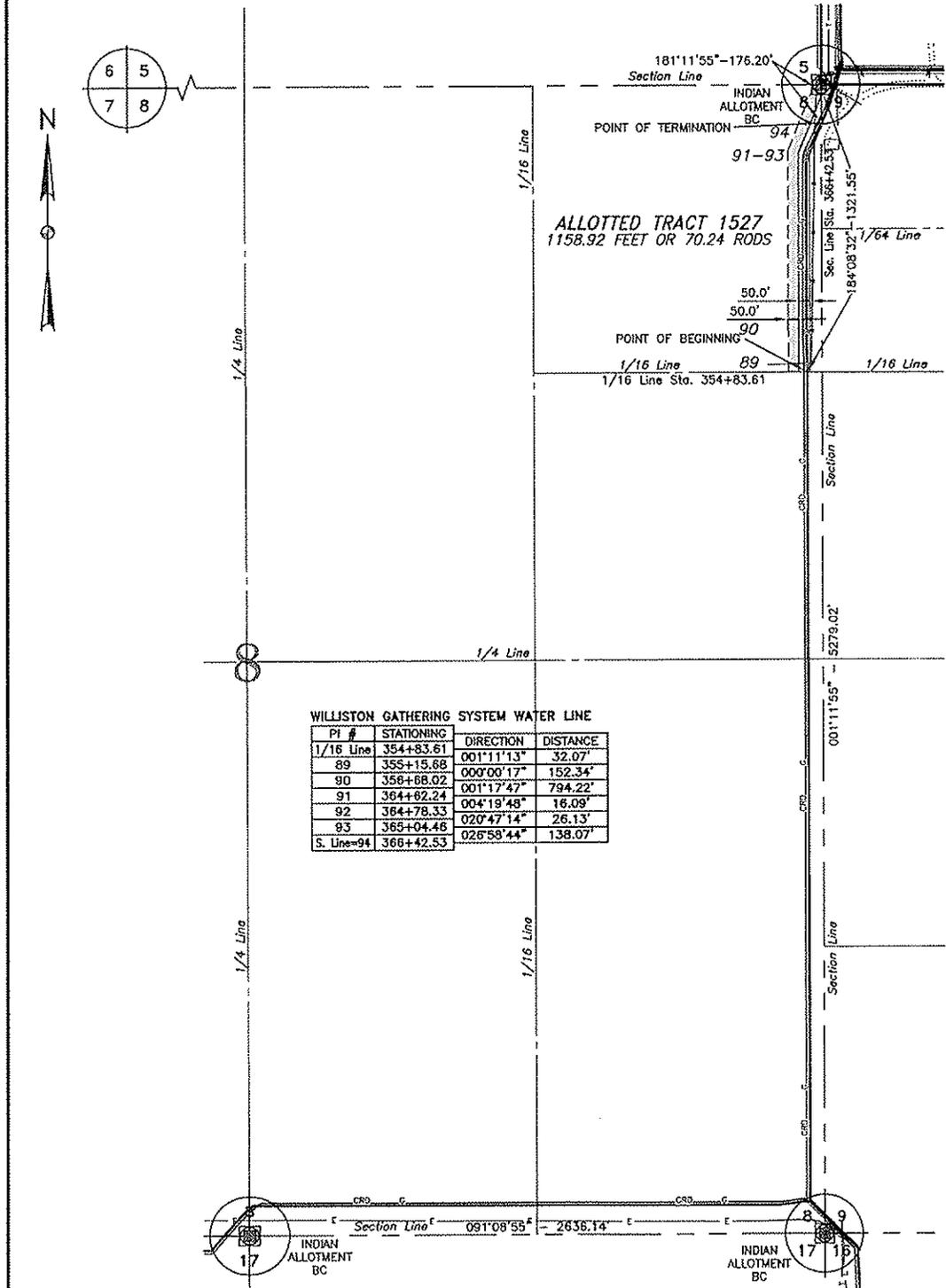
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



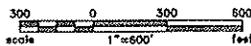
SHEET 24 OF 34

 Kadmas Lee & Jackson Engineers Surveyors Planners	 QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE SE1/4NE1/4 OF SEC. 8, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. WOLF ORIGIN DATE: 10/17/2011 REV. DATE:	SCALE: 1"=600' TRACT NUMBER 8-150-90-B		

THREE AFFILIATED TRIBES
 NE1/4NE1/4 OF SECTION 8, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



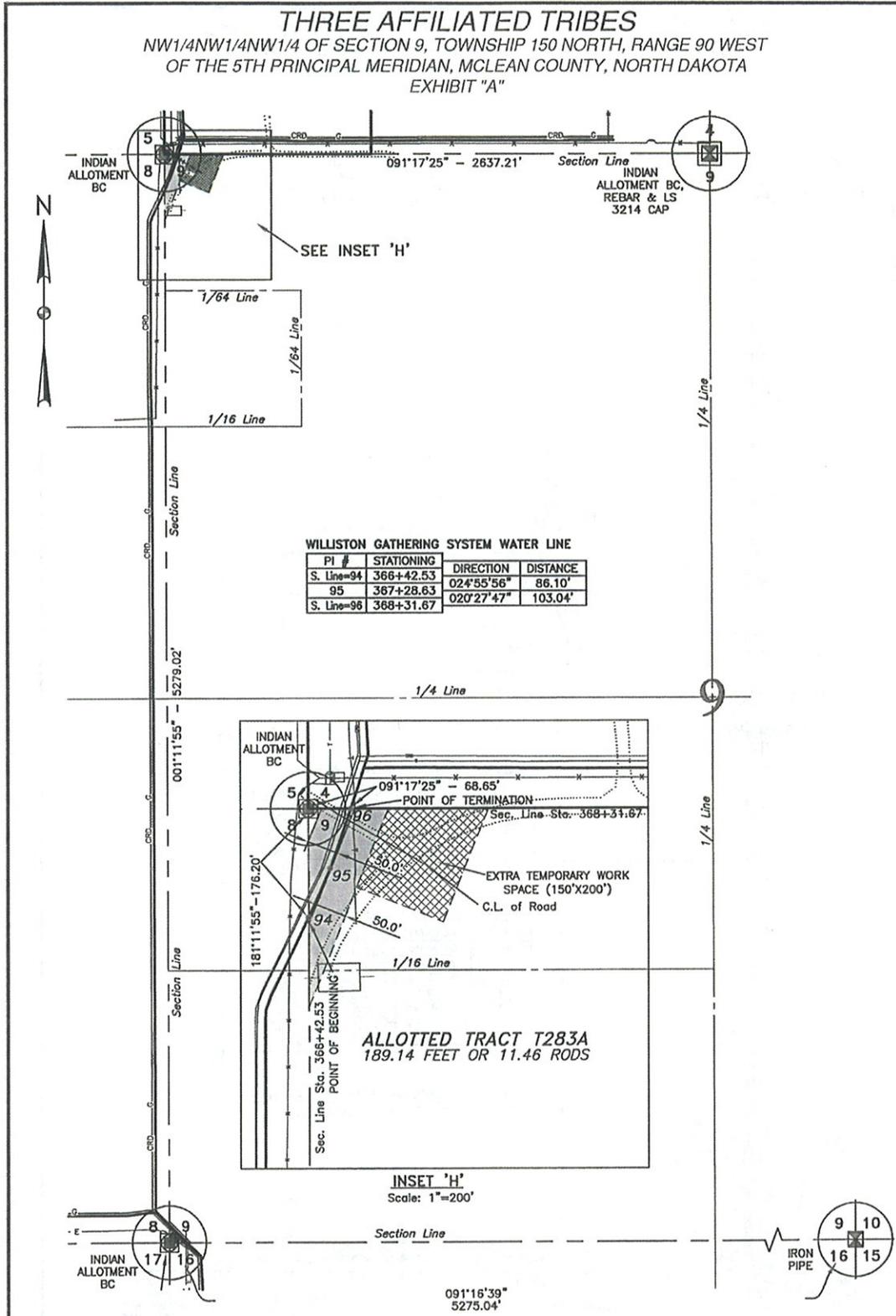
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 25 OF 34

 Kadmas Lee & Jackson Registered Surveyors Planners	 QEP QEP Energy Company	1050 17th Street, Suite 500 Denver, CO 80265-1050 80265-1050	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
			PROPOSED PIPELINE LOCATION ON AND ACROSS THE NE1/4NE1/4 OF SEC. 8, T.150N., R.90W.	JOB NO. 3709480
DRAWN BY: S. Wolf ORIGINAL DATE: 10/17/2011 REV. DATE:			SCALE: 1"=600' TRACT NUMBER 8-150-90-A	

THREE AFFILIATED TRIBES
 NW1/4NW1/4NW1/4 OF SECTION 9, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line=94	366+42.53	024°55'56"	86.10'
95	367+28.63	020°27'47"	103.04'
S. Line=98	368+31.67		

ALLOTTED TRACT T283A
 189.14 FEET OR 11.46 RODS

INSET 'H'
 Scale: 1"=200'

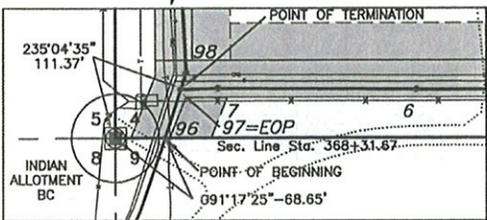
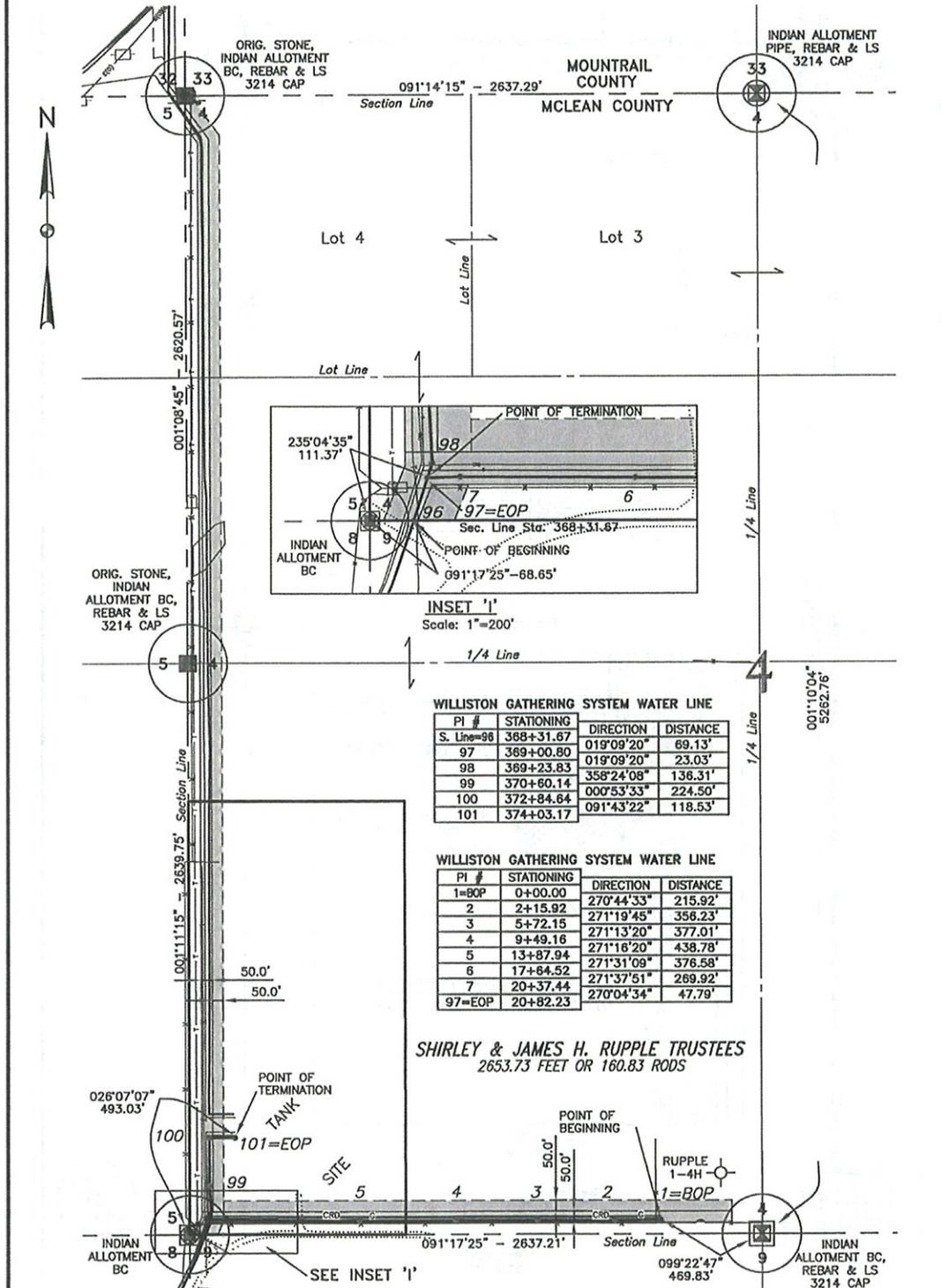
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 26 OF 34

Kadmas Lee & Jackson Engineers Surveyors Planners 1050 17th Street, Suite 500 Denver, CO 80265-1050 QEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE		DWG NO. 3709480BAS05
	PROPOSED PIPELINE LOCATION ON AND ACROSS THE NW1/4NW1/4NW1/4 OF SEC. 9, T.150N., R.90W.		JOB NO. 3709480
DRAWN BY: S. Wolf ORIGINAL DATE: 10/17/2011 REV. DATE:	SCALE: 1"=600' TRACT NUMBER 9-150-90-A		

SHIRLEY and JAMES H. RUPPLE TRUSTEES
 SW1/4 OF SECTION 4, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

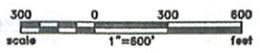
PI #	STATIONING	DIRECTION	DISTANCE
S. Line=86	368+31.67	019°09'20"	69.13'
97	369+00.80	019°09'20"	23.03'
98	369+23.83	358°24'08"	136.31'
99	370+60.14	000°53'33"	224.50'
100	372+84.64	091°43'22"	118.53'
101	374+03.17		

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1=BOP	0+00.00	270°44'33"	215.92'
2	2+15.92	271°19'45"	356.23'
3	5+72.15	271°13'20"	377.01'
4	9+49.16	271°16'20"	438.78'
5	13+87.94	271°31'09"	376.58'
6	17+84.52	271°37'51"	269.92'
7	20+37.44	270°04'34"	47.79'
97=EOP	20+82.23		

SHIRLEY & JAMES H. RUPPLE TRUSTEES
 2653.73 FEET OR 160.83 RODS

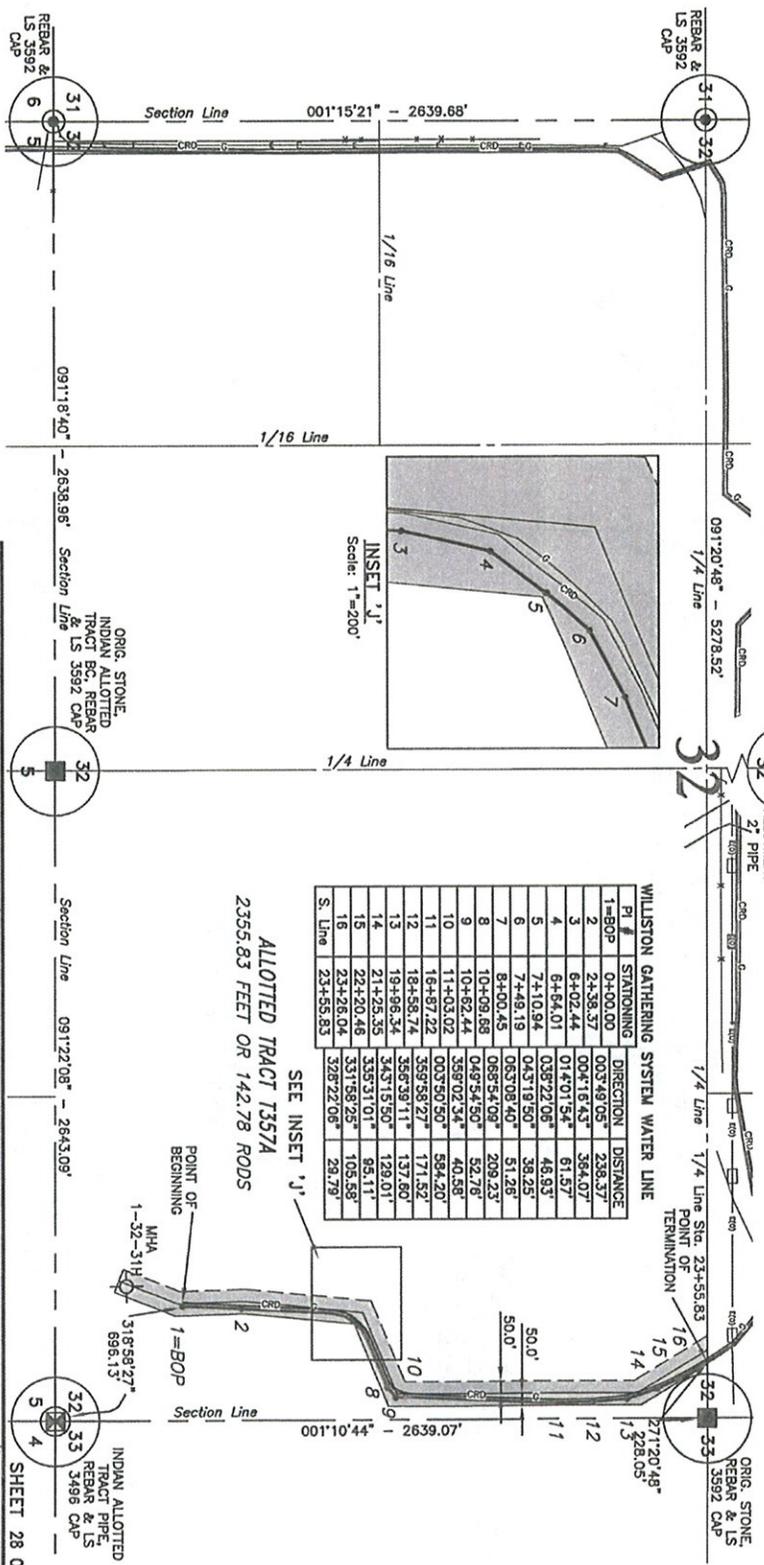
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



SHEET 27 OF 34

 Engineers Surveyors Planners DRAWN BY: S. Wolf ORIGINAL DATE: 10/17/2011 REV. DATE:	 1050 17th Street, Suite 500 Denver, CO 80265-1050 QEP Energy Company	QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480BAS05
		PROPOSED PIPELINE LOCATION ON AND ACROSS THE SW1/4 OF SEC. 4, T.150N., R.90W.	JOB NO. 3709480
		SCALE: 1"=600' TRACT NUMBER 4-150-90-A	

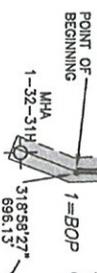
THREE AFFILIATED TRIBES
 SE 1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



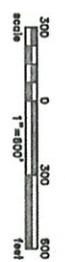
WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1	0+00.00	003°49'05"	238.37'
2	2+38.37	004°16'43"	384.07'
3	6+02.44	014°01'54"	61.57'
4	6+64.01	035°22'06"	46.93'
5	7+10.94	043°18'50"	38.25'
6	7+48.19	063°08'40"	51.26'
7	8+00.45	068°54'05"	209.23'
8	10+09.88	048°54'50"	52.78'
9	10+62.44	359°02'54"	40.58'
10	11+03.02	003°50'50"	584.20'
11	16+87.22	389°58'21"	171.32'
12	18+56.74	386°39'11"	137.80'
13	19+96.34	343°15'50"	129.01'
14	21+26.35	335°31'01"	85.11'
15	22+20.46	331°58'25"	105.58'
16	23+26.04	326°22'06"	29.79'
S. Line	23+55.83		

ALLOTTED TRACT 1357A
 2355.83 FEET OR 142.78 RODS



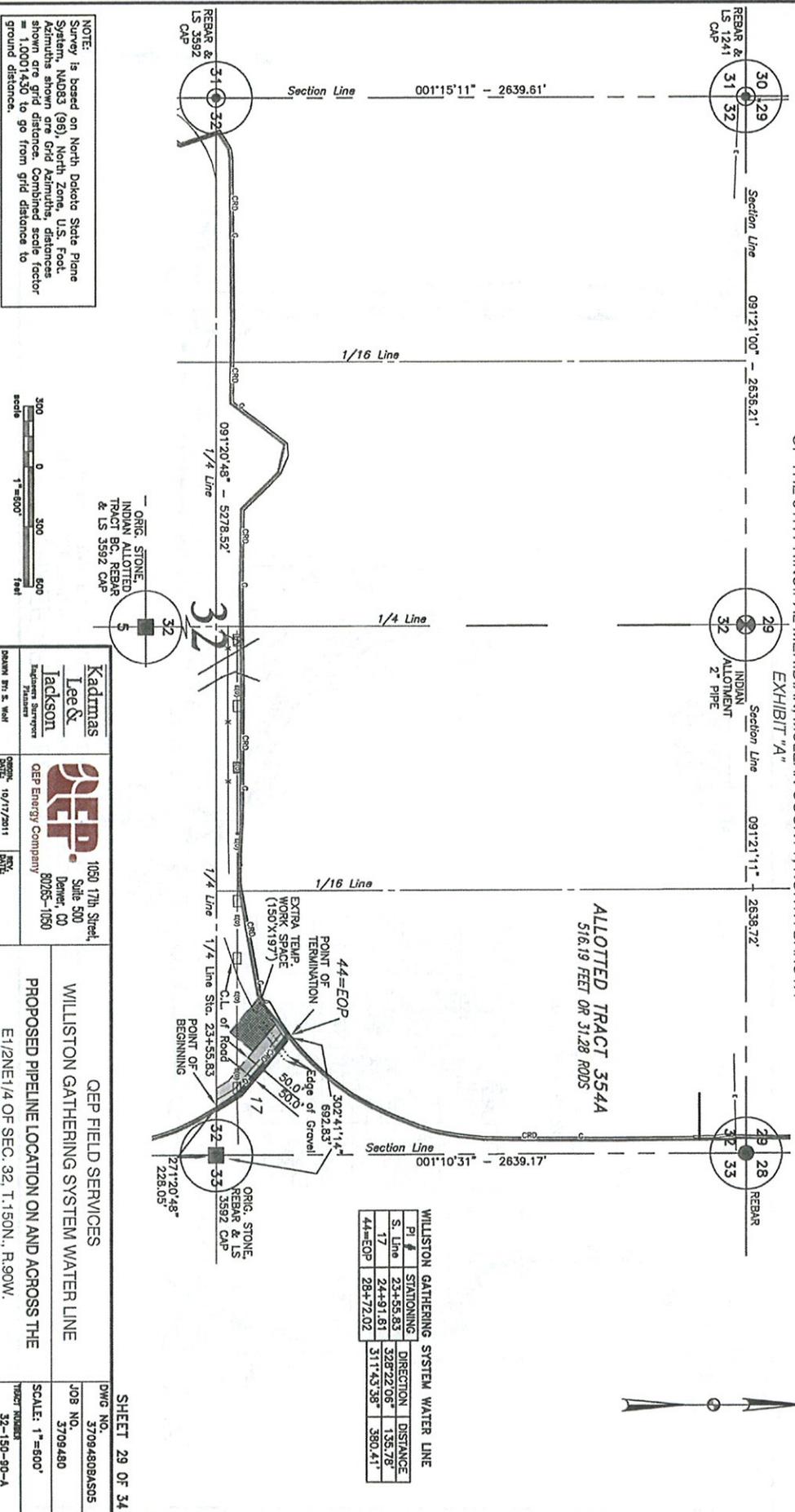
NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



Kadmas Lee & Jackson Professional Surveyors	DEP DEP Entry Company	1050 17th Street, Suite 300 Denver, CO 80265-1050
DESIGNED BY: S. WAI	CHECKED BY: S. WAI	DATE: 10/17/2011

OEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	JOB NO. 3709480
PROPOSED PIPELINE LOCATION ON AND ACROSS THE SE 1/4 OF SEC. 32, T. 150N., R. 90W.	SCALE: 1"=600'
SHEET 28 OF 34	DWG. NO. 3709480BLS05
	JOB NO. 3709480
	SCALE: 1"=600'
	TYPICAL NUMBER 32-150-90-F

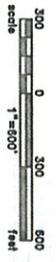
THREE AFFILIATED TRIBES
 E1/2NE1/4 OF SECTION 32, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
17	23+55.83	328°22'06"	135.78'
44=EOP	24+91.61	311°43'38"	380.41'
	28+72.02		

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



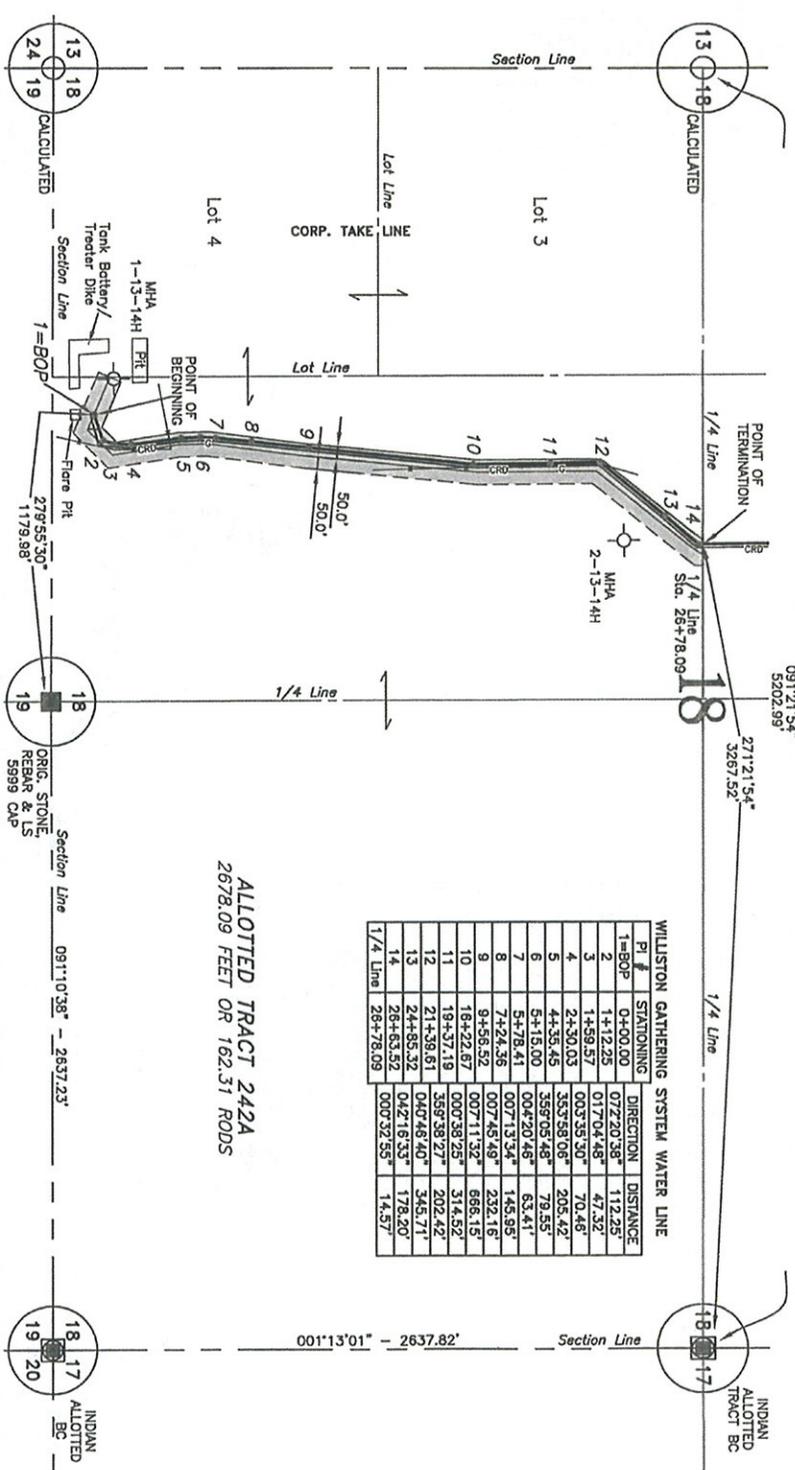
Kadamas Lee & Jackson
 Engineers Surveyors
 1060 17th Street, Suite 500
 Denver, CO 80202-1060

QEP
 QEP Energy Company
 1060 17th Street, Suite 500
 Denver, CO 80202-1060

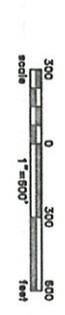
QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 E1/2NE1/4 OF SEC. 32, T. 150N., R. 90W.

ALLOTTED TRACT 242A
 E1/2 OF LOT 4, E1/2SW1/4 & SE1/4 OF SECTION 18, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, McLEAN COUNTY, NORTH DAKOTA

EXHIBIT "A"
 091°21'54"
 5202.99'



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are grid Azimuths. Distances are grid distances. Computing distances in 1,000,000 to go from grid distance to ground distance.

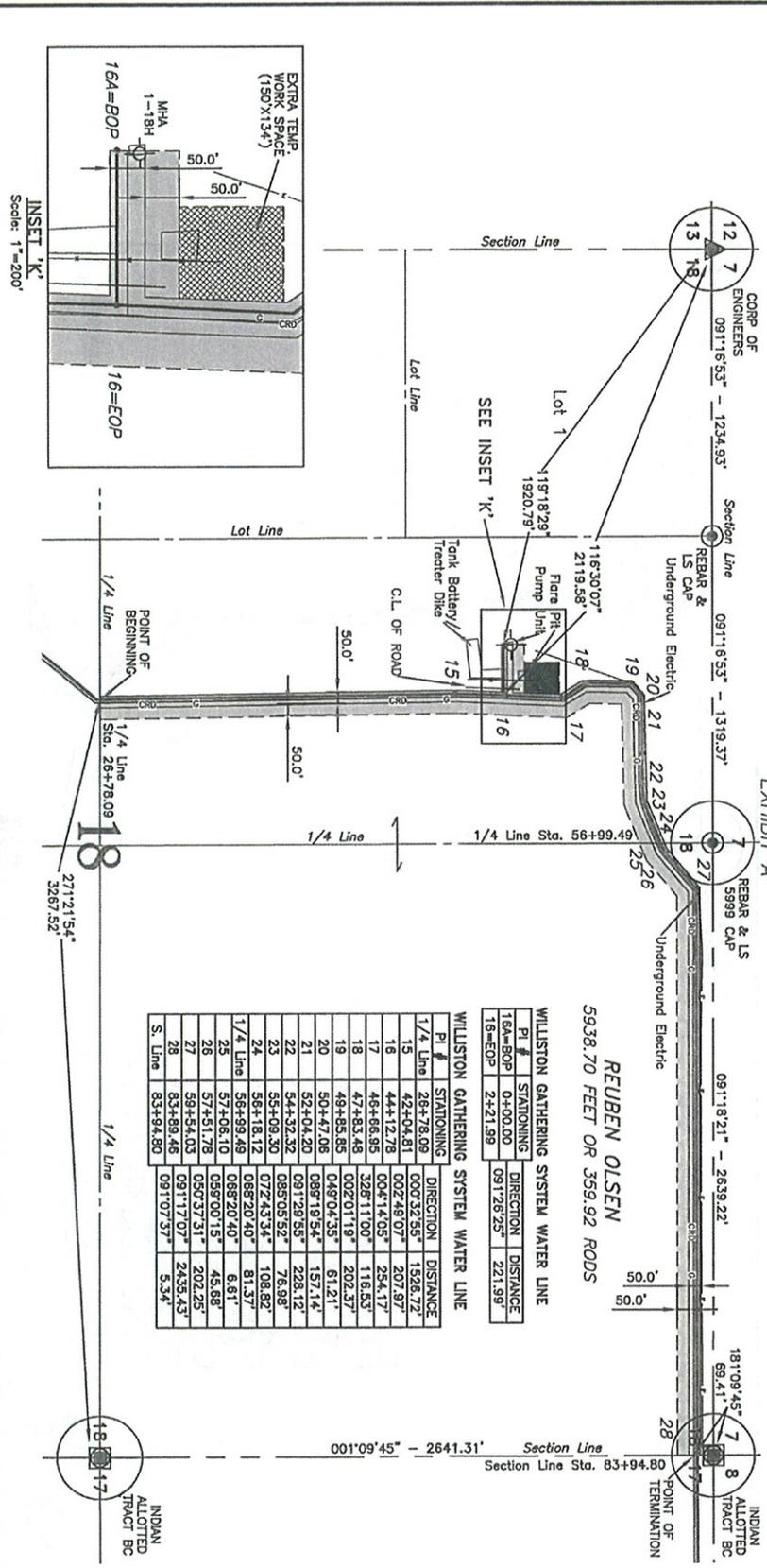


Kadmas Lee & Jackson Registered Professional Surveyors DRAWN BY: S. WALT DATE: 10/17/2011	QEP QEP Energy Company 1050 17th Street, Suite 500 Denver, CO 80253-1050	SHEET 30 OF 34 DWG NO. 3709480BAS05 JOB NO. 3709480 SCALE: 1"=500' TITLE NUMBER 18-150-90-A LAYOUT: EDR-18-150-90
PROPOSED PIPELINE LOCATION ON AND ACROSS THE WILLISTON GATHERING SYSTEM WATER LINE		
E1/2 OF LOT 4, E1/2SW1/4 & SE1/4 OF SEC. 18, T.150N., R.90W.		

REUBEN OLSON

EXHIBIT "A"

E1/2NW1/4 & NE1/4 OF SECTION 18, TOWNSHIP 150 NORTH, RANGE 90 WEST
OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA



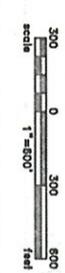
WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
15A=BOP	0+00.00	091°28'25"	221.99'
16=BOP	2+21.99	091°28'25"	221.99'

WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/4 Line	28+78.09	000°32'55"	1598.72'
15	42+04.81	002°49'07"	207.97'
16	44+12.78	004°14'05"	234.17'
17	46+66.95	328°11'00"	116.53'
18	47+83.48	002°01'19"	202.37'
19	49+85.85	046°04'35"	61.21'
20	50+47.08	088°19'54"	157.14'
21	52+04.20	091°29'55"	228.12'
22	54+32.32	085°05'52"	76.88'
23	55+09.30	072°43'34"	108.82'
24	56+18.12	068°20'40"	81.37'
1/4 Line	56+99.49	088°20'40"	6.61'
25	57+06.10	059°07'15"	45.88'
26	57+51.78	050°37'31"	202.25'
27	58+54.03	091°17'07"	2435.43'
28	83+99.48	091°07'37"	5.34'
S. Line	83+99.480		

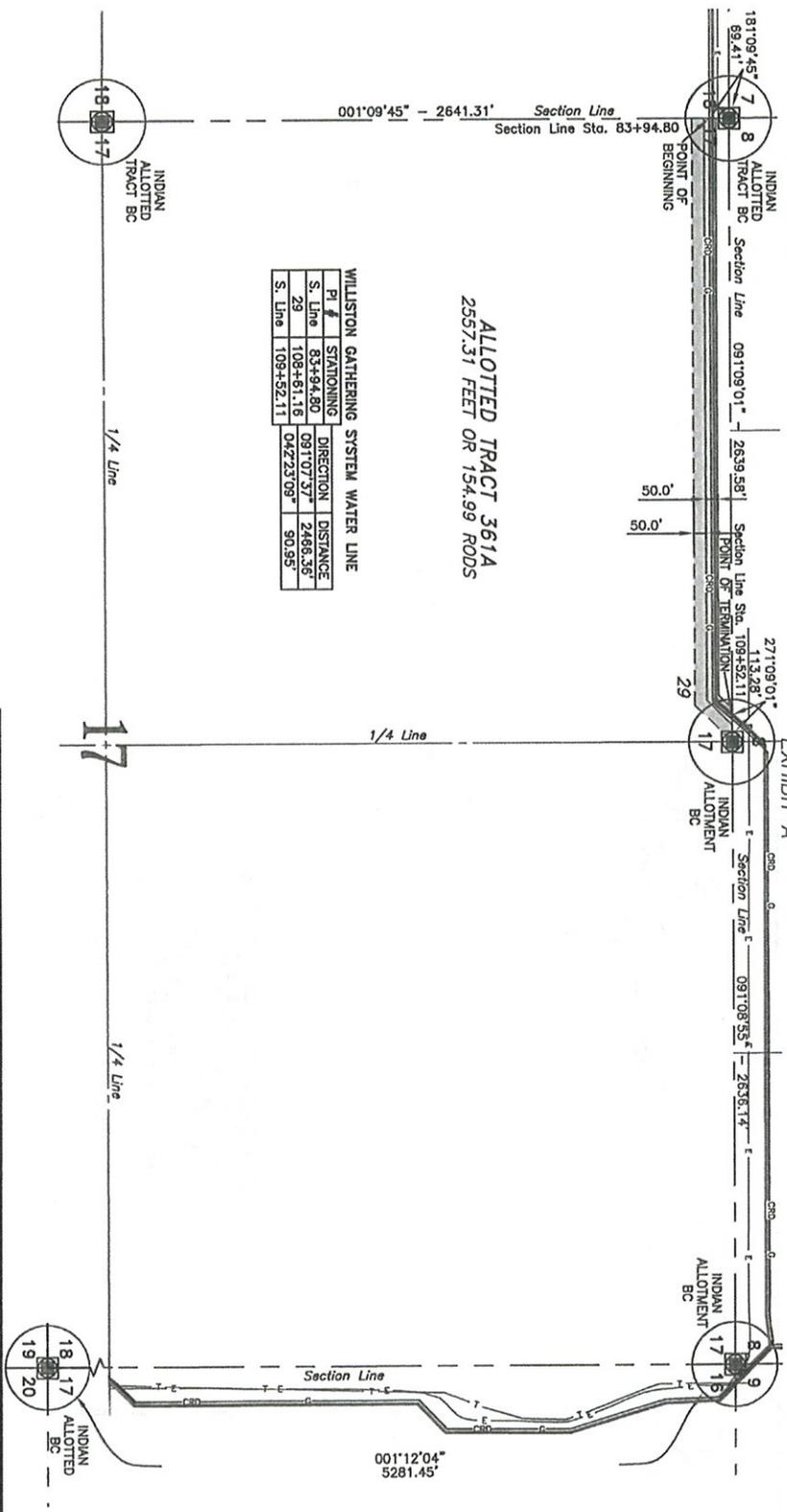
NOTE:
Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



<p>Kadmas Lee & Jackson Professional Surveyors</p> <p>1080 17th Street, Suite 500 Denver, CO 80265-1050</p> <p>DATE: 10/17/2011</p> <p>BY: [Signature]</p>	<p>QEP FIELD SERVICES</p> <p>WILLISTON GATHERING SYSTEM WATER LINE</p> <p>PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2NW1/4 & NE1/4 OF SEC. 18, T.150N., R.90W.</p> <p>DWG NO. 3709480A505 JOB NO. 3709480 SCALE: 1"=600' TRCT NUMBER 18-150-90-B</p>
---	---

ALLOTTED TRACT 361A
 NW1/4 OF SECTION 17, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA

EXHIBIT "A"



WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
S. Line	83+94.80	091°07'57"	2468.56'
S. Line	109+52.11	042°23'09"	90.95'

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



Oct 17, 2011 - 5:51pm - J:\offroad\Questech\3709480\CADD\EP\3709480.dwg

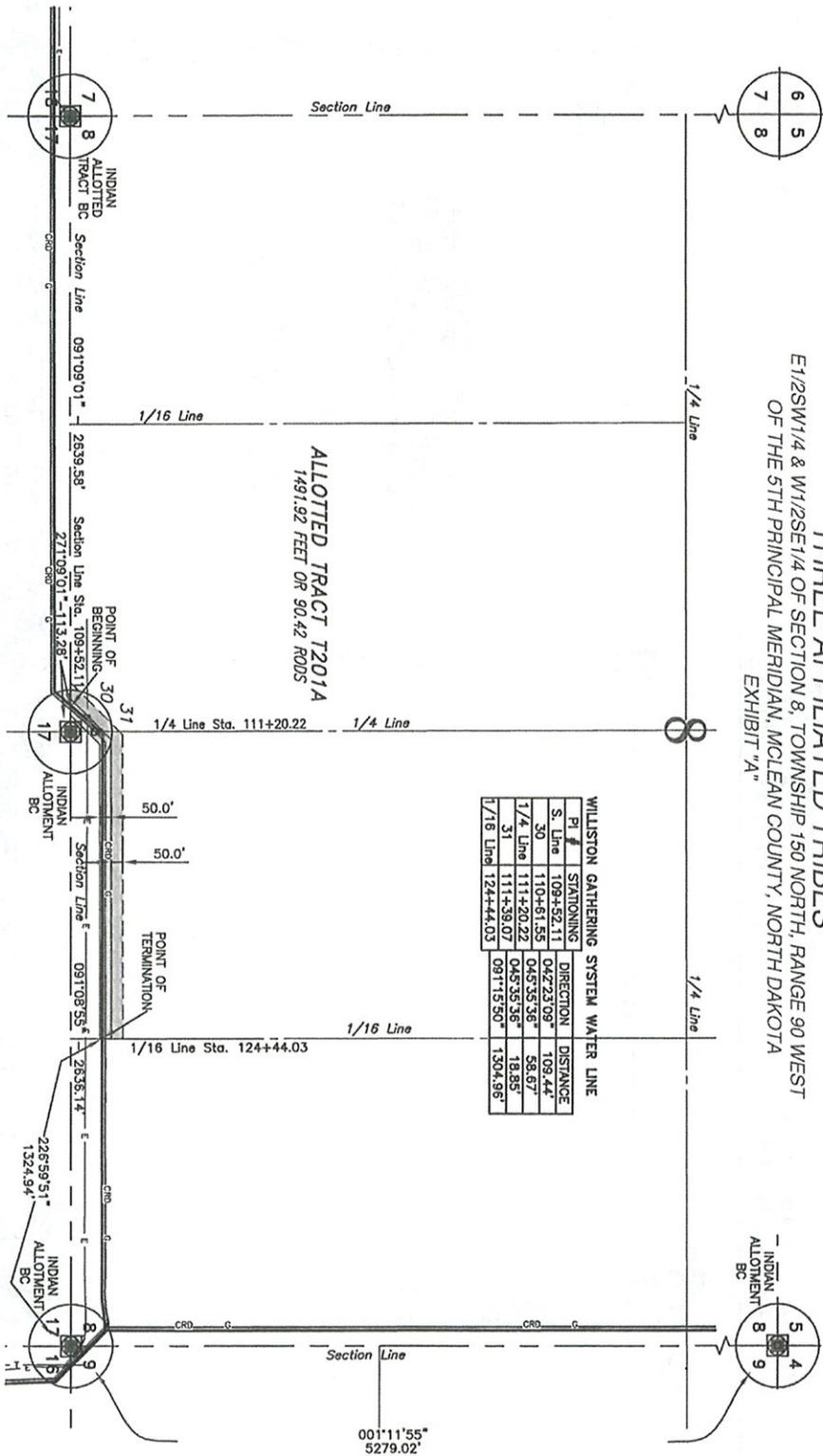
© Kadmas, Lee & Jackson, 2011

Kadmas Lee & Jackson Registered Surveyors Equalized Practitioners BOBMY RTI S. WEI	 QEP QEP Energy Company	1050 17th Street, Suite 300 Denver, CO 80205-1050
		DATE: 10/17/2011 BY: RW

QEP FIELD SERVICES
 WILLISTON GATHERING SYSTEM WATER LINE
 PROPOSED PIPELINE LOCATION ON AND ACROSS THE
 NW1/4 OF SEC. 17, T.150N., R.90W.

SHEET 32 OF 34
 DWG NO. 3709480BAS05
 JOB NO. 3709480
 SCALE: 1" = 600'
 TYPICAL INDUSTRY 17-150-90-C
 LAYOUT: NW 17-150-90

THREE AFFILIATED TRIBES
 E1/2SW1/4 & W1/2SE1/4 OF SECTION 8, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (99), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.0001430 to go from grid distance to ground distance.



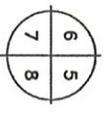
Oct 17, 2011 - 5:51 pm - J:\offfield\Question\3709480\CAD\EP\3709480.dwg

Kadmas Lee & Jackson REGISTERED PROFESSIONAL ENGINEERS	QEP QEP Energy Company
1050 17th Street, Suite 500 Denver, CO 80205-1050	1050 17th Street, Suite 500 Denver, CO 80205-1050
DRWN BY: S. WAR	DATE: 10/17/2011
REV. DATE:	

QEP FIELD SERVICES WILLISTON GATHERING SYSTEM WATER LINE	DWG NO. 3709480AS05
PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2SW1/4 & W1/2SE1/4 OF SEC. 8, T.150N., R.90W.	JOB NO. 3709480
	SCALE: 1" = 800'
	TRACER NUMBER 8-150-90-D

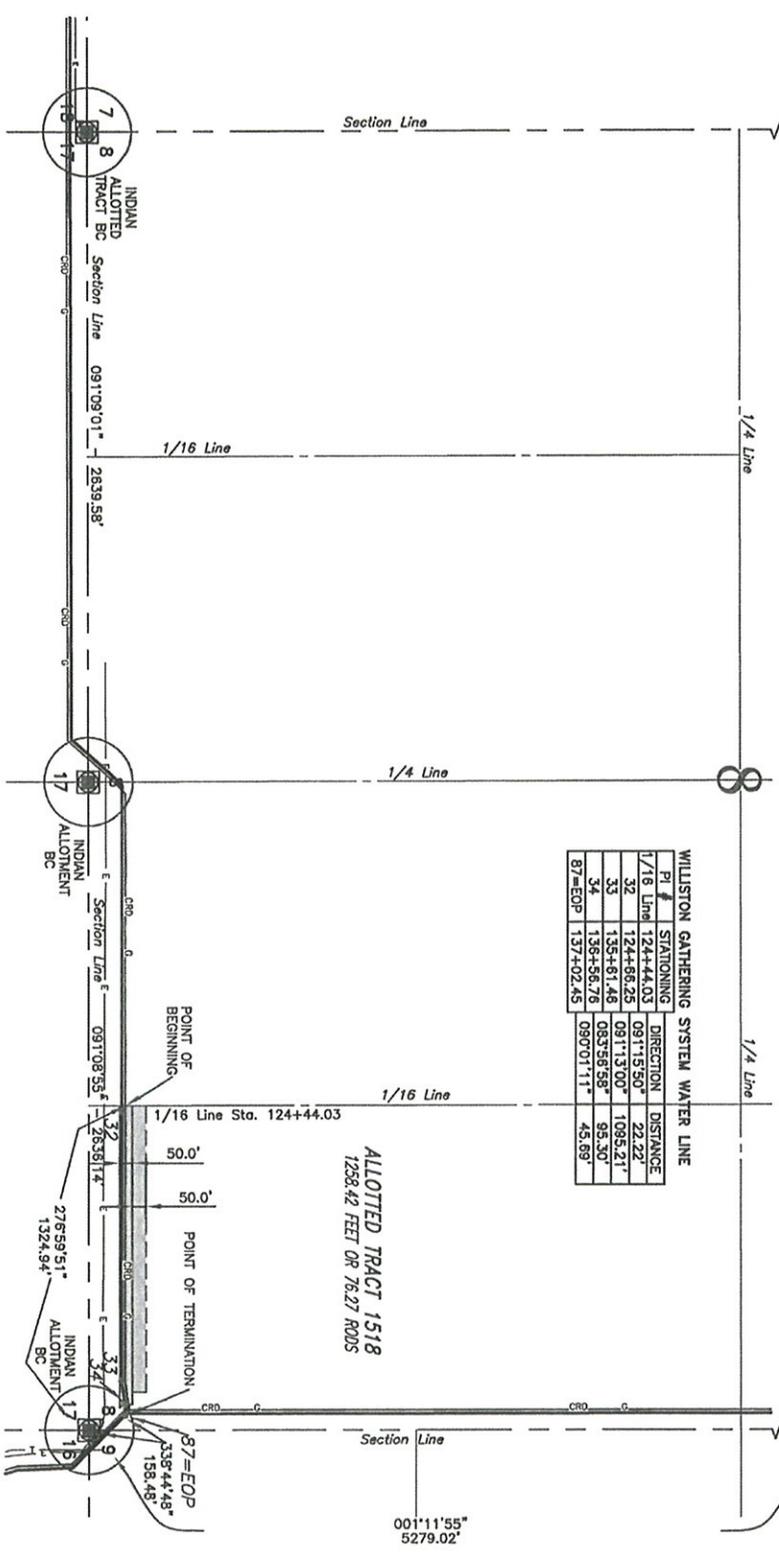
SHEET 33 OF 34
 LAYOUT: ESM-WP2_B-150-90

ALLOTTED TRACT 1518
 E1/2SE1/4 OF SECTION 8, TOWNSHIP 150 NORTH, RANGE 90 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCLEAN COUNTY, NORTH DAKOTA
 EXHIBIT "A"

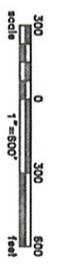


WILLISTON GATHERING SYSTEM WATER LINE

PI #	STATIONING	DIRECTION	DISTANCE
1/16 Line	124+44.03	091°15'50"	22.22'
32	124+56.25	091°13'00"	1095.21'
33	135+51.46	083°58'58"	95.30'
34	136+56.76	090°01'11"	45.69'
87=EQP	137+02.45		



NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances are shown as grid distances. Combined scale factor is 1.0001430 to go from grid distance to ground distance.



Oct. 17, 2011 - 5:51pm - J:\willfield\Question\3709480\CADD\EP\3709480D0000.DWG

Kadmas Lee & Jackson Engineers Surveyors Planners 1030 17th Street, Suite 500 Denver, CO 80202-1050	QEP QEP Energy Company 16/17/2011 DATE	1030 17th Street, Suite 500 Denver, CO 80202-1050	16/17/2011 DATE
WILLISTON GATHERING SYSTEM WATER LINE QEP FIELD SERVICES		PROPOSED PIPELINE LOCATION ON AND ACROSS THE E1/2SE1/4 OF SEC. 8, T. 150N., R. 90W.	
SHEET 34 OF 34		SCALE: 1"=800' TRACT NUMBER B-150-90-C	
LAYOUT: ESE-D-150-90 (3)		© Kadmas, Lee & Jackson 2011	

