

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON
PCN-1**

In the Matter of the Petition of)
UMATILLA ELECTRIC COOPERATIVE)
**PETITION FOR CERTIFICATE OF)
PUBLIC CONVENIENCE AND)
NECESSITY)**
)
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)
_____)

**REPLY TESTIMONY OF LOUIS S. TOTH, PE
ON BEHALF OF UMATILLA ELECTRIC COOPERATIVE**

November 18, 2016

1 **Q. PLEASE STATE YOUR NAME AND YOUR EMPLOYER.**

2 **A.** My name is Louis S. Toth. I am employed by and serve as President of Toth and
3 Associates, Inc., (TA) an engineering firm providing professional services in all phases of
4 planning, design and development of electric utility power systems. The firm also
5 provides civil and structural engineering services. TA is assisting Umatilla Electric
6 Cooperative (“UEC”) in the development of a five (5) mile overhead 115 kV transmission
7 line from a breaker in the McNary Substation owned by the Bonneville Power
8 Administration to UEC’s existing Hermiston Butte Substation (“Transmission Line”).

9 **Q. HAVE YOU PREVIOUSLY PROVIDED TESTIMONY IN THIS MATTER.**

10 **A.** Yes. On behalf of UEC, I provided pre-filed testimony and accompanying exhibits in
11 conjunction with UEC’s petition for a Certificate of Public Convenience and Necessity
12 (“CPCN”). That testimony was labeled UEC/100 and the exhibits were labeled UEC/101
13 through UEC/109.

14 **Q. DO YOU HAVE ANY CHANGES OR ADDITIONS TO MAKE TO YOUR INITIAL
15 TESTIMONY?**

16 **A.** Yes. When UEC filed its petition for the CPCN, we noted that we were still working with
17 landowners along the proposed route to obtain easements. We further offered that if there
18 was a change in the status of an easement that we would update the record with that
19 information. There have been some changes to the easements since that time. Included
20 with this Reply Testimony is Exhibit UEC/301, which reflects changes in the easements
21 along the proposed route. Exhibit UEC/301 should replace the original exhibit filed with
22 the Petition, which was UEC/107.

1 **Q. WHAT CHANGES WERE MADE TO THE EASEMENTS?**

2 **A.** First, UEC determined that the easement designated “Easement CU-811.1” is no longer
3 needed. The original purpose of that easement was to facilitate moving a power line from
4 the west side of Lind Road to the east side in that area. UEC has decided to not modify the
5 existing line on the west side of the road and it can use an existing connection further to
6 the south rather than utilize this easement for that purpose. This easement has therefore
7 been removed from the exhibits, with corresponding changes in the table that originally
8 appeared at Exhibit UEC/107, Toth/1, removal of the easement from the overview map
9 that originally appeared at Exhibit UEC/107, Toth/3, removal of the specific easement
10 figure that originally appeared at Exhibit UEC/107, Toth/9, and removal of the easement
11 from the list of property owner addresses that originally appeared at Exhibit UEC/107,
12 Toth/27.

13 Second, UEC obtained from the landowner the easement designated “Easement CU-821.”
14 Accordingly, that easement is no longer highlighted as it was in the original version at
15 Exhibit UEC 107, Toth/1, the easement now appears blue rather than yellow as it did in the
16 original version at Exhibit UEC 107/Toth 4, the specific easement figure that originally
17 appeared at Exhibit UEC/107, Toth 14 has been removed, and the owner’s name and
18 mailing address have been removed from the list of property owner addresses that
19 originally appeared at Exhibit UEC/107, Toth/27.

20 Finally, UEC discovered an error in its original depiction of “Easement CU-847.”
21 Specifically, that easement is identified in the original exhibits at Exhibit UEC/107,
22 Toth/20 and shows an easement that is twenty-five feet (25’) in width. In reality, UEC
23

1 wishes to obtain an easement that is fifty feet (50') in width across that property. An early
2 design anticipated that the Transmission Line might be able to be located adjacent to the
3 road right-of-way on the west side of that property. When the final design was developed,
4 however, it utilized the same location as the existing power line on that property, which is
5 set back from the road right-of-way. While the new alignment changed as part of the final
6 design presented in UEC's petition, the need for a wider easement – one that does not
7 utilize the road right-of-way – was not captured. The appropriately-sized easement is now
8 included, with corresponding changes that include an expansion of the easement in the
9 overview map that originally appeared at Exhibit UEC/107, Toth/5, and modification of
10 the specific easement figure that originally appeared at Exhibit UEC/107, Toth/20. The
11 easement value shown in the table that appears at Exhibit UEC/107, Toth/1 already
12 reflected a fifty foot (50') wide easement and therefore does not require revision.

13 **Q. IS THE COMMISSION'S STAFF AWARE OF THESE CHANGES?**

14 **A.** Yes. Prior to filing its Response Testimony, Commission Staff propounded Data Request
15 36 seeking updates in any information UEC could provide. In response to that data request,
16 UEC provided Staff with the updated exhibits, along with the explanation of the changes I
17 just provided.

18 **Q. DOES UEC HAVE ANY OTHER UPDATES TO PROVIDE?**

19 **A.** Yes. In addition to changes to various easements described above, UEC has continued to
20 refine the specific components of the Transmission Line along the proposed route. Included
21 with its petition and my pre-filed testimony, UEC provided figures showing the profile of
22 the Transmission Line and the specific structure types that would be installed along the
23

1 route as part of Exhibit UEC/108. As UEC continues to work with property owners along
2 the route and develop more precise engineering drawing for the line, the information in
3 Exhibit UEC/108 has changed. Included with this Reply testimony is Exhibit UEC/302,
4 which reflects those changes and which supplants the original Exhibit UEC/108 filed with
5 UEC's petition.

6 **Q. WHAT NECESSITATED THE CHANGES SHOWN IN THE NEW EXHIBIT?**

7 A. Some of the changes are the result of the need to avoid or to safely cross over existing
8 facilities such as high pressure water lines or irrigation canals. Other changes are the result
9 of further refinements to ensure the Transmission Line satisfies applicable engineering
10 requirements and safety standards. Many of the changes simply conform the labels used to
11 denote structure type to the standard labels used by Rural Utility Services or add detail to
12 the label for constructability purposes. The first page of the new exhibit contains a list of
13 each change made to the exhibit.

14 **Q. IS THE COMMISSION'S STAFF AWARE OF THESE CHANGES?**

15 A. Yes. As part of UEC's response to Staff's Data Request 36, UEC provided the updated
16 exhibit along with the explanation for the changes. This information was provided before
17 Staff filed its Response Testimony so that Staff could take this new information into
18 account in its investigation.

19 **Q. HAVE YOU REVIEWED STAFF'S RESPONSE TESTIMONY?**

20 A. Yes.

21 ///

22 ///

23

1 **Q. DOES STAFF MAKE ANY CONCLUSIONS REGARDING UEC'S PETITION?**

2 A. Yes. Following a thorough investigation, which included a public hearing and multiple
3 discovery requests, Staff has concluded that UEC's petition for a CPCN is warranted and
4 that the Commission should issue the certificate.

5 **Q. ARE THERE ANY ISSUES OF STAFF'S TESTIMONY THAT YOU WISH TO
6 RESPOND TO?**

7 A. No. I believe Staff did a thorough job and has adequately assisted the Commission in the
8 investigation of this matter. I do not have any disagreements with, or feel the need to
9 make any refinements to, Staff's ultimate conclusion or its methodology.

10 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

11 A. Yes.

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BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

PCN-1

In the Matter of the Petition of)
UMATILLA ELECTRIC COOPERATIVE)
PETITION FOR CERTIFICATE OF)
PUBLIC CONVENIENCE AND)
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_____)

EXHIBIT UEC/301

November 18, 2016

Butte-McNary Easement Tabulation

Required easements are highlighted and shown with estimated values

PAGE #	TAX LOT #	OWNER	EASEMENT VALUE	ZONING
CU-802	200	SCHELL, JAMES	\$ 1,680.17	C-1
CU-803	100	ANACAPA LAND CO., LLC	\$ 743.92	F-2
CU-804	3902	POULSON, STEVEN & JONILYN	\$ 971.02	R-1
CU-805	3900	RITZER, MICHAEL & TABITHA	\$ 788.54	R-1
CU-806	3700	FREDERICKSON, DARYL & JUNE	\$ 782.58	R-1
CU-807	3600	FREDERICKSON, DARYL & JUNE	\$ 500.00	R-1
CU-808	4090	CHARLO, CLARENCE & GERALDINE	\$ 928.63	R-1
CU-809	4091	MORRIS, KENNETH LEON & MARCIA DAWN	\$ 500.00	R-1
CU-810	4100	MORRIS, KENNETH LEON & MARCIA DAWN	\$ 500.00	R-1
CU-811	1700	BARRETO, GUADALUPE	\$ 500.00	R-3
CU-812	1800	ARTEAGA, MANUAL & EVA	\$ 500.00	R-3
CU-813	1900	WALLACE, JOHN & BARBARA	\$ 500.00	R-3
CU-814	2000	FORDICE, CLINTON	\$ 506.02	M-1
CU-815	2003	GARCIA, BUSTILLO SOILO	\$ 1,069.56	M-1
CU-816	700	ESTATE OF STUART BONNEY	\$ 992.49	M-1
CU-816.1	100	ESTATE OF STUART BONNEY	\$ 500.00	M-1
CU-817	1600	ESTATE OF STUART BONNEY	\$ 500.00	M-1
CU-817.1	1402	RANNE, DONALD	\$ 500.00	R-1
CU-818	1800	WILLIAMS, RONALD	\$ 500.00	M-1
CU-819	1900	ESTATE OF STUART BONNEY	\$ 671.93	M-1
CU-820	2100	BURNS, PAUL	\$ 571.82	M-1
CU-821	2300	UMATILLA COUNTY	\$ 500.00	M-1
CU-822	1100	LOGSDON, NORRIS	\$ 1,786.70	LI/AR
CU-822.1	100	UNITED STATES OF AMERICA	\$ -	LI
CU-823.1	1400	RONALD BUWALDA	\$ 500.00	LI
CU-825	110	JACKSON, STEVE	\$ 552.69	LI
CU-826	100	SCHNELL, JOHN C	\$ 980.13	LI
CU-827	300	DELHUR INDUSTRIES INC	\$ 500.00	LI
CU-828	106	LUKENBILL, RICK R & DIANE	\$ 1,814.86	LI
CU-829	703	GONLAZEZ, JUAN D SR & ORALIA M	\$ 500.00	LI
CU-830	600	NOLAND, RONALD E & CINDY L	\$ 1,804.98	LI
CU-831	701	PECK, BURTON H	\$ 500.00	LI
CU-832	700	DRISCOLL, JOHN M & CAROLE L	\$ 1,593.86	LI
CU-833	705	DRISCOLL, JOHN M & CAROLE L	\$ 1,784.03	LI
CU-834	800	MEDELEZ TRUCKING INC	\$ 1,875.46	LI
CU-835	405	RAMIREZ, GERARDO	\$ 500.00	LI
CU-836	200	RAMIREZ, GERARDO	\$ 500.00	LI
CU-837	407	DIAMOND M RANCH	\$ 633.39	RR-4
CU-838	601	BAILEY, WENDELL C JR.	\$ 1,138.70	RR-4
CU-842	301	UMATILLA COUNTY	\$ 500.00	RR-2
CU-843	105	WARD, CHRIS & KATRINA	\$ 1,093.67	RR-2
CU-844	302	MELVILLE JR, DAVID K & AMANDA	\$ 500.00	RR-2
CU-845	300	COHELL, WILLIAM L & IDA M	\$ 882.65	RR-2
CU-846	110	SHAFFER, TED J & BARBARA	\$ 931.95	RR-2
CU-847	1900	GARCIA, JOSE & REBECA	\$ 737.28	RR-2
CU-848	1903	KYLE, JAMES C & RACIL M	\$ 1,395.93	RR-2
CU-848.1	1905	MARTIN, PAMELA	\$ 500.00	RR-2
CU-849	1904	DIRCKSEN, CRAIG A & HEATHER M	\$ 1,408.11	RR-2
CU-850	500	NEWMAN & DACK	\$ 741.25	R-4
CU-852	7500	MCDOUGAL, NORMAN	\$ 500.00	R-4
CU-853	800	DUBOIS, JOEL & GLORIA	\$ 500.00	R-4
CU-854	4000	CITY OF HERMISTON	\$ 500.00	R-4

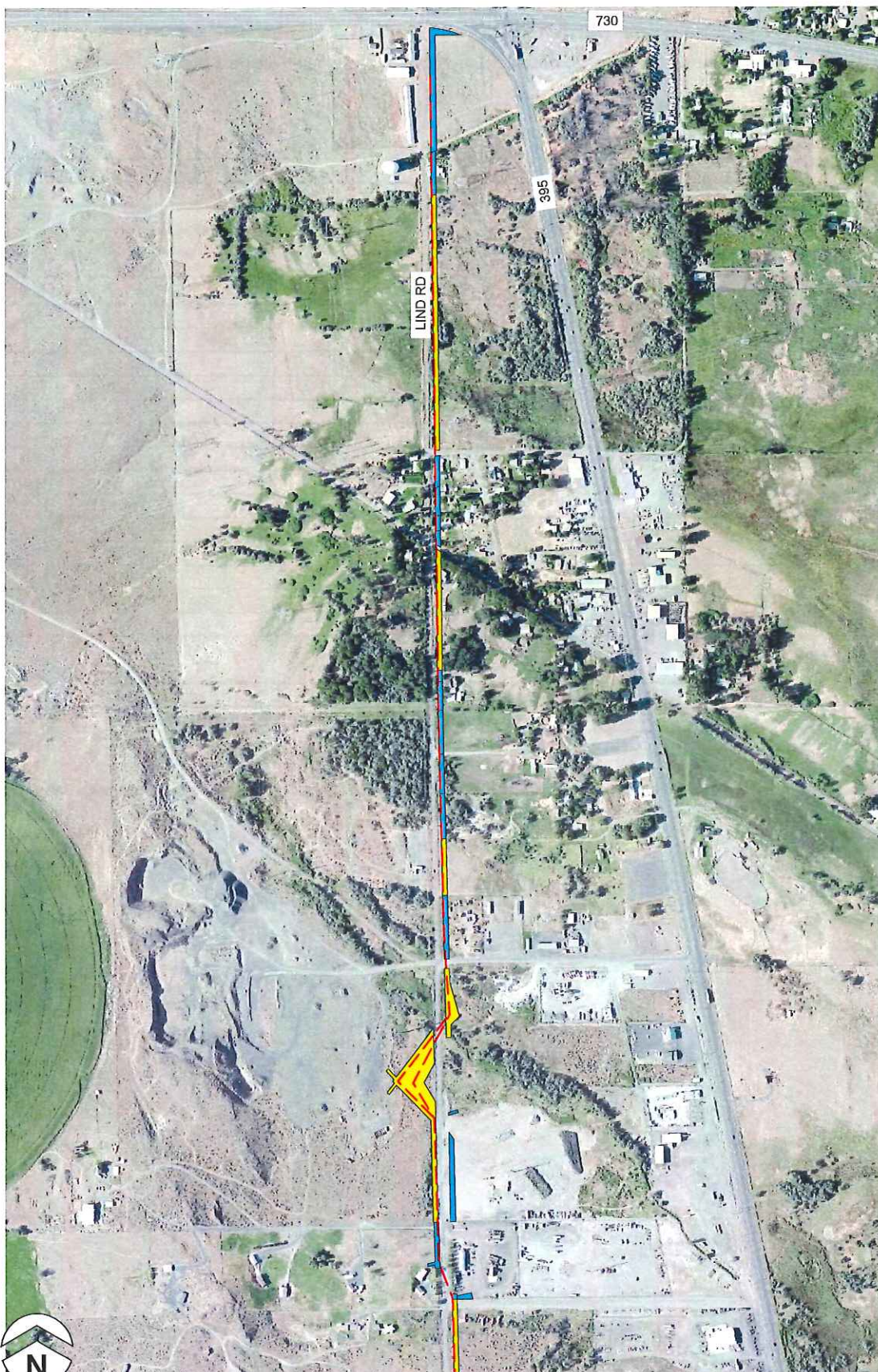
Butte-McNary Easement Tabulation

Required easements are highlighted and shown with estimated values

PAGE #	TAX LOT #	OWNER	EASEMENT VALUE	ZONING
CU-855	4100	MCDUGAL, NORMAN	\$ 500.00	R-4
CU-857	4200	JOHNSON, JOHN V JR & PAMELA J	\$ 500.00	R-4
CU-858	201	MARK LARSON	\$ 500.00	R-4
CU-859	200	COLVIN	\$ 500.00	R-4
CU-860	202	WEBB, JEFFREY S & BRENDA	\$ 500.00	R-4
CU-861	300	HALL, DONALD & DEBRA	\$ 522.71	R-4
CU-862	500	DUMLER, CONRAD & JAIMEE	\$ 500.00	R-4
CU-863	600	WERNER, HARLEY & CASON, MATTIE J (TRS)	\$ 1,568.58	R-4
CU-864	400	BARLOW, RICK & RALPH & BERTHA (Berta)	\$ 500.00	R-4
CU-865	1302	CITY OF HERMISTON	\$ 500.00	M-1
CU-866	1401	AUTRY, LINDA R	\$ 500.00	M-1
CU-867	1400	BRODERICK, THOMAS R	\$ 500.00	M-1
CU-868	1403	ALLEMAN, DONALD & JACQUELINE	\$ 535.53	M-1
CU-869	1402	THORPE, LARRY & CAROL	\$ 500.00	M-1
CU-871	1309	BUSH, LLC	\$ 500.00	M-1
CU-872	1311	HUXOLL, TOMMY L	\$ 500.00	M-1
CU-873	2600	HUXOLL, TOMMY L	\$ 500.00	M-1
CU-874	902	JUAN & MELBA ALMAGUER, JR.	\$ 500.00	M-1
CU-875	1201	KOPACZ, RAYMOND & SHERRIE	\$ 500.00	C-2

Total	\$	52,989.13
Contingency (10%)	\$	5,298.91
Grand Total	\$	58,288.04
Rounded Total	\$	59,000.00

The value of required easements not yet obtained (highlighted) total \$11,589.12. Obtained easement values total \$41,400.01.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 500'

SIGNED EASEMENT
 REQUIRED EASEMENT
 CENTERLINE

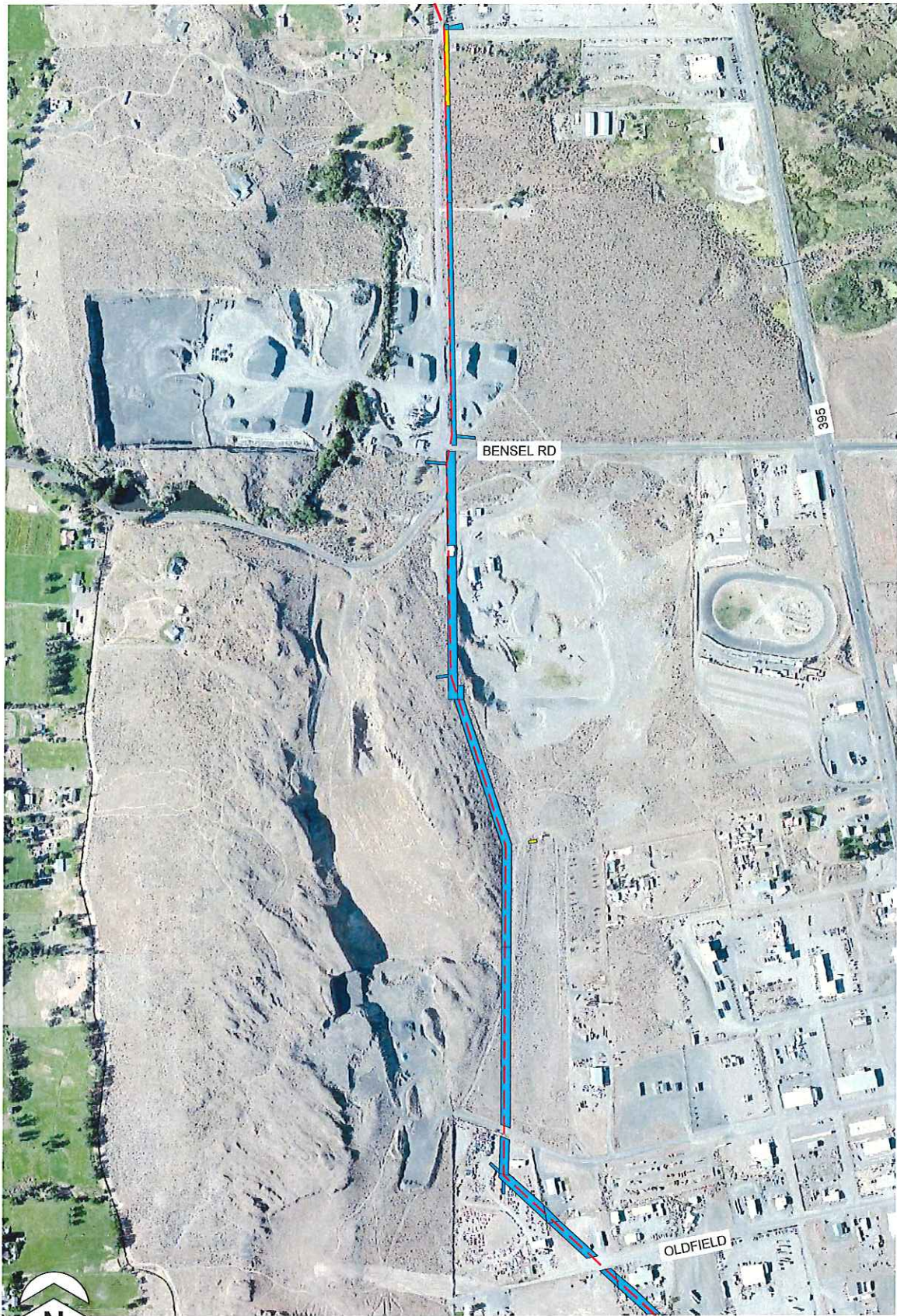
DATE	REVISION	#
03/24/16	ISSUED FOR APPLICATION	0
10/27/15	REVISED FOR APPLICATION	1

ATOTH
ASSOCIATES

330 E FIRMROSE, SUITE 200
SPRINGFIELD, MO 65807
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WWW.ATOTHASSOCIATES.COM

CERTIFICATE OF AUTHORITY
COP NOT REQUIRED
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PROJECT:	BUTTE - MCNARY 115 KV TRANSMISSION LINE
LOCATION:	LA: 45.917691°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
CLIENT:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
TITLE:	OVERALL ROUTE MAP
SHEET NO:	CU-950



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE

SIGNED EASEMENT
 REQUIRED EASEMENT
 - - - CENTERLINE

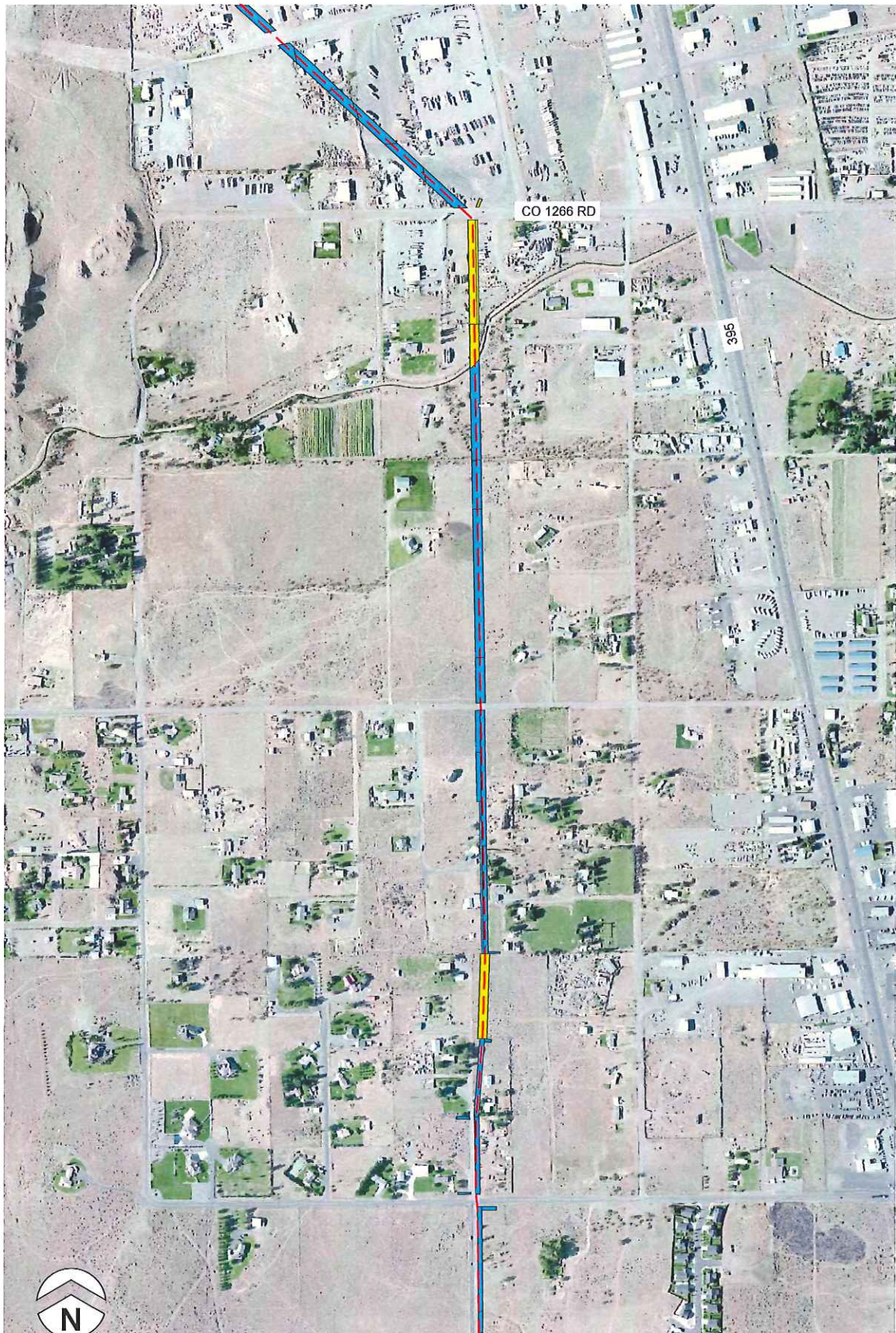
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NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES
H. SCALE: 1" = 500'

DATE	REVISION	#
03/24/16	ISSUED FOR APPLICATION	0
10/27/16	REVISED FOR APPLICATION	1

TO TH ASSOCIATES
 830 E. PROROCKE, BUTTE, OR 97409
 PH: 417-858-0645 FAX: 417-858-0657
 WWW.TOTHASSOCIATES.COM
 CERTIFICATE OF AUTHORITY: OR# 160100000000000000
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PROJECT:	BUTTE - MCNARY 115 KV TRANSMISSION LINE
LOCATION:	LA: 45.917031°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
CLIENT:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE:	03/23/16
TITLE:	OVERALL ROUTE MAP
DWG NO:	CU-951



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE

SIGNED EASEMENT
 REQUIRED EASEMENT
 CENTERLINE

0 250 500

NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 500'

DATE	REVISION	#
02/24/16	ISSUED FOR APPLICATION	0
04/7/16	REVISED FOR APPLICATION	1
05/04/16	REVISED FOR APPLICATION	2
10/27/16	REVISED FOR APPLICATION	3

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ASSOCIATES

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PROJECT:	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
LOCATION:	LA: 45.917031° LN: -119.307423° TO LA: 45.851743° LN: -119.29943° UMATILLA COUNTY, OR	
CLIENT:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA	
TITLE:	OVERALL ROUTE MAP	DWT NO: CU-952



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE

SIGNED EASEMENT
 REQUIRED EASEMENT
 - - - CENTERLINE

0 250 500

NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 500'

DATE	REVISION	#
03/24/16	ISSUED FOR APPLICATION	0
10/27/16	REVISED FOR APPLICATION	1

TO TH
ASSOCIATES

800 E FIRMORSE, SUITE 200
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PH: 417-683-0645 FAX: 417-553-0651
www.totthassociates.com
CERTIFICATE OF AUTHORITY
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DATE:	03/23/16	PROJECT:	BUTTE - MCNARY 115 KV TRANSMISSION LINE
DESIGNER:	JLB	LOCATION:	LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
CHECKER:	LBW	COUNTY:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE:	03/23/16	TITLE:	OVERALL ROUTE MAP
DATE:		DWT NO.:	CU-953

PCN-1

OWNER: UEC/301
ANACAPA LAND CO., LLC Toth/7
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2815CB TAX LOT #100

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED AS TRACT II IN A STATUTORY
WARRANTY DEED, RECORDED IN UMATILLA
COUNTY, OREGON AS DOCUMENT NUMBER
2003-4450295, DATED AUGUST 19, 2003.



 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 150'

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DATE	REVISION	#
03/23/16	REVISED FOR REFERENCE	1

TOTH & ASSOCIATES
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 CERTIFICATE OF AUTHORITY:
 OR# not required
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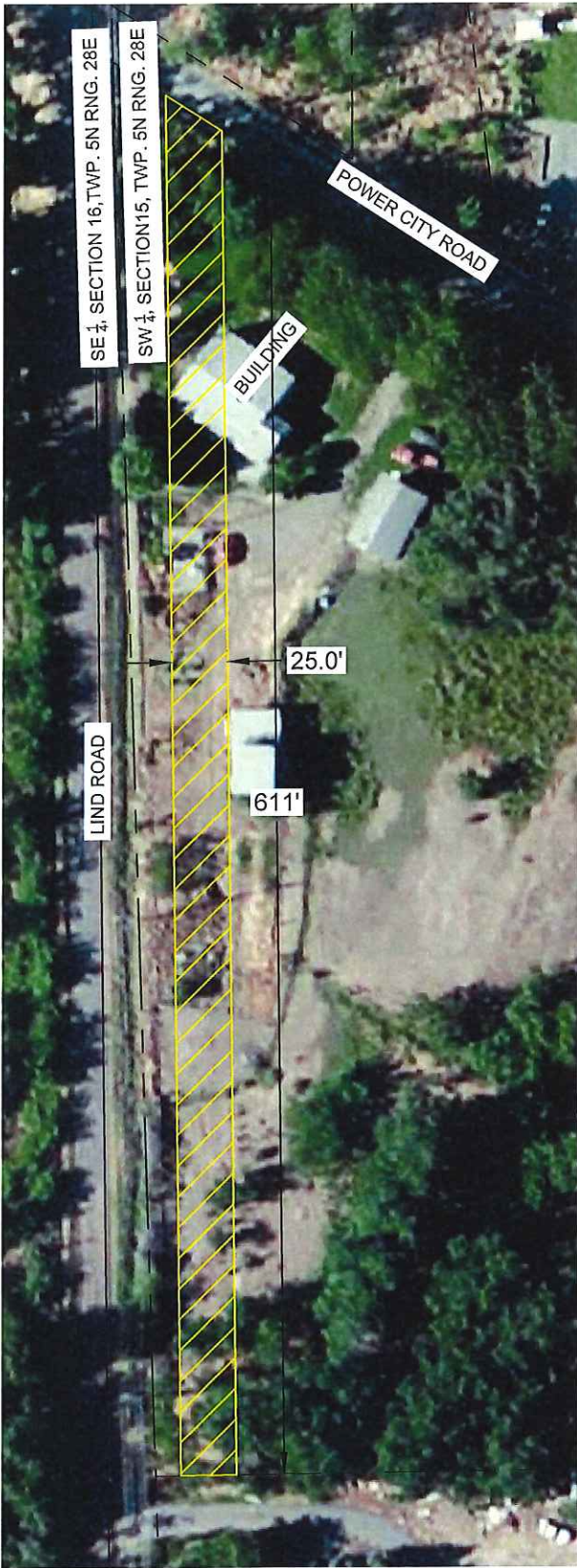
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CKD BY: JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
APPD BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE: 01/23/15	TITLE: EASEMENT EXHIBITS ANACAPA LAND CO., LLC
SHT NO: CU-803	

OWNER:
CLARENCE AND GERALDINE CHARLO
81999 LIND ROAD
UMATILLA, OR 97882
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2815CC TAX LOT #4090

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

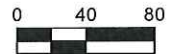
EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED IN A WARRANTY DEED, RECORDED IN
UMATILLA COUNTY, OREGON AS INSTRUMENT
NUMBER 1977-25927, DATED JUNE 1977.



 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 80'

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DATE	REVISION	#	TOTH & ASSOCIATES		OWN. BY:	PROJECT:	
03/23/16	REVISED FOR REFERENCE	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
					CKD BY:	LOCATION:	LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					JLB	CLIENT:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					LBW	TITLE:	EASEMENT EXHIBITS CLARENCE & GERALDINE CHARLO
					DATE	SHT NO:	
					01/23/15	CU-808	



REQUIRED EASEMENT

OWNER:
CLINTON AND BECKY FORDICE
81881 & 81883 LIND ROAD
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2822BB TAX LOT #2000

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

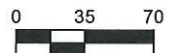
THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

THE EASEMENT WILL FACILITATE MOVING THE
POWER LINE RUNNING ON THE WEST SIDE OF
LIND ROAD TO THE EAST SIDE IN THIS AREA.

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED IN A WARRANTY DEED, RECORDED IN
UMATILLA COUNTY, OREGON AS DOCUMENT NUMBER
96-218928, DATED MAY 24, 1996.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 70'

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DATE	REVISION	#			OWN. BY:	PROJECT:	
01/29/15	REVISED ASSESSMENT MAP INFORMATION	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
03/23/16	REVISED FOR REFERENCE	2			CRD BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					APPD BY:	LBW	CLIENT:
					DATE:	01/23/15	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE:	EASEMENT EXHIBITS CLINTON & BECKY FORDICE	
					SHT NO.:	CU-814	



OWNER:
ESTATE OF STUART BONNEY
BETTY & AL HIATT, C/O BARNETT & MORO
495 E. MAIN, HERMISTON, OR 97838
JANET BONNEY, GEORGE BONNEY, & KEN BONNEY
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2822 TAX LOT #700

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

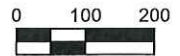
THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

THE EASEMENT WILL FACILITATE MOVING THE
POWER LINE RUNNING ON THE WEST SIDE OF
LIND ROAD TO THE EAST SIDE IN THIS AREA.

EASEMENT DESCRIPTION:
BEGINNING AT THE NORTHWEST CORNER OF PARCEL 2
OF PARTITION PLAT NO. 1997-25, RECORDS OF UMATILLA
COUNTY, OREGON, THENCE NORTH 89°33'06" EAST
ALONG THE NORTH LINE OF SAID PARCEL 2 A DISTANCE
OF 25.01 FEET; THENCE SOUTH 01°25'06" EAST A
DISTANCE OF 72.81 FEET; THENCE SOUTH 15°51'44"
EAST A DISTANCE OF 180.41 FEET; THENCE SOUTH
44°47'28" WEST A DISTANCE OF 62.34 FEET; THENCE
SOUTH 01°25'06" EAST A DISTANCE OF 65.00 FEET;
THENCE SOUTH 88°49'58" WEST A DISTANCE OF 25.00
FEET TO THE WEST LINE OF SAID PARCEL 2; THENCE
NORTH 01°25'06" WEST ALONG THE WEST LINE OF SAID
PARCEL 2 A DISTANCE OF 356.37 FEET TO THE POINT OF
BEGINNING. CONTAINS 13,802 SQUARE FEET.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 200'

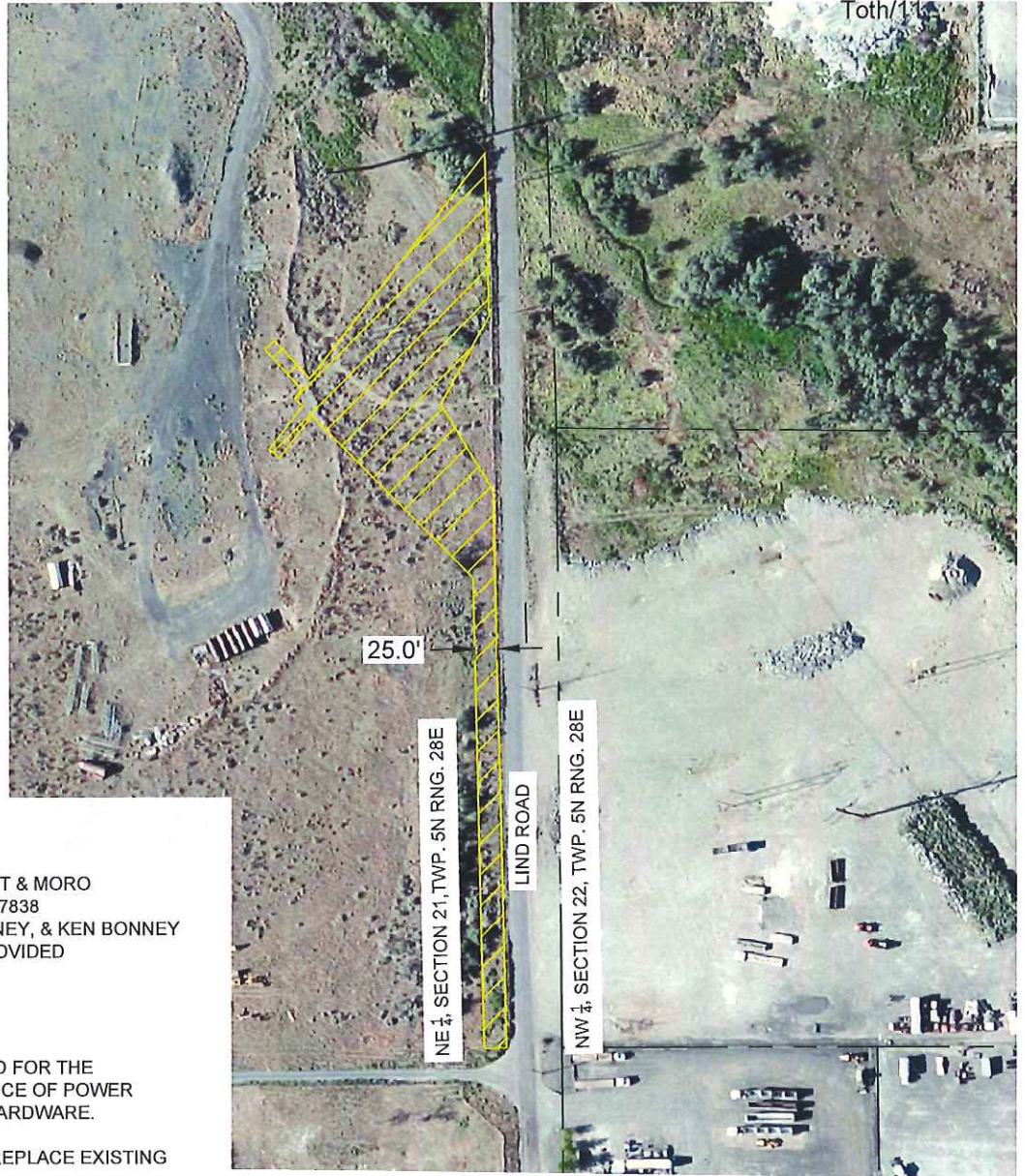
 **REQUIRED EASEMENT**

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DATE	REVISION	#
02/03/16	EASEMENT REVISED	1
03/23/16	REVISED FOR REFERENCE	2

TOOTH & ASSOCIATES
830 E PRIMROSE, SUITE 200
SPRINGFIELD, MO 65907
Ph: 417-888-0645 Fax: 417-888-0657
www.tothassociates.com
CERTIFICATE OF AUTHORITY:
OR# not required
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DWR. BY: DAW	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
CRG BY: JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
APPR. BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE: 01/23/15	TITLE: EASEMENT EXHIBITS STUART BONNEY
SHT NO: CU-816	



OWNER:
ESTATE OF STUART BONNEY
BETTY & AL HIATT, C/O BARNETT & MORO
495 E. MAIN, HERMISTON, OR 97838
JANET BONNEY, GEORGE BONNEY, & KEN BONNEY
NO EASEMENT OF RECORD PROVIDED

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

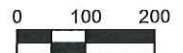
THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

 REQUIRED EASEMENT

EASEMENT DESCRIPTION:
LEGAL DESCRIPTION FOR A POWERLINE AND GUY ANCHOR EASEMENT LOCATED IN THE NORTHEAST ONE-QUARTER (NE1/4) OF SECTION 21, TOWNSHIP 5 NORTH, RANGE 28 EAST, W.M., UMATILLA COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF PARCEL 3 OF PARTITION PLAT NO. 2004-07, RECORDS OF UMATILLA COUNTY, OREGON, THENCE SOUTH 89°50'01" WEST ALONG THE NORTH LINE OF SAID PARCEL 3 A DISTANCE OF 25.00 FEET; THENCE NORTH 01°25'08" WEST A DISTANCE OF 507.75 FEET; THENCE NORTH 44°48'14" WEST A DISTANCE OF 280.59 FEET; THENCE SOUTH 37°54'40" WEST A DISTANCE OF 59.49 FEET; THENCE NORTH 52°05'20" WEST A DISTANCE OF 15.00 FEET; THENCE NORTH 37°54'40" EAST A DISTANCE OF 61.40 FEET; THENCE NORTH 44°48'14" WEST A DISTANCE OF 12.60 FEET; THENCE NORTH 37°54'31" EAST A DISTANCE OF 12.67 FEET; THENCE NORTH 42°48'50" WEST A DISTANCE OF 60.96 FEET; THENCE NORTH 47°11'10" EAST A DISTANCE OF 15.00 FEET; THENCE SOUTH 42°48'50" EAST A DISTANCE OF 58.51 FEET; THENCE NORTH 37°54'31" EAST A DISTANCE OF 345.75 FEET TO THE WEST RIGHT-OF-WAY LINE OF LIND ROAD; THENCE SOUTH 01°25'08" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 174.65 FEET; THENCE SOUTH 29°04'03" WEST A DISTANCE OF 145.20 FEET; THENCE SOUTH 31°29'59" EAST A DISTANCE OF 146.97 FEET TO SAID WEST RIGHT-OF-WAY LINE OF LIND ROAD; THENCE SOUTH 01°25'08" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 594.42 FEET TO THE POINT OF BEGINNING. CONTAINS 68,758 SQUARE FEET.



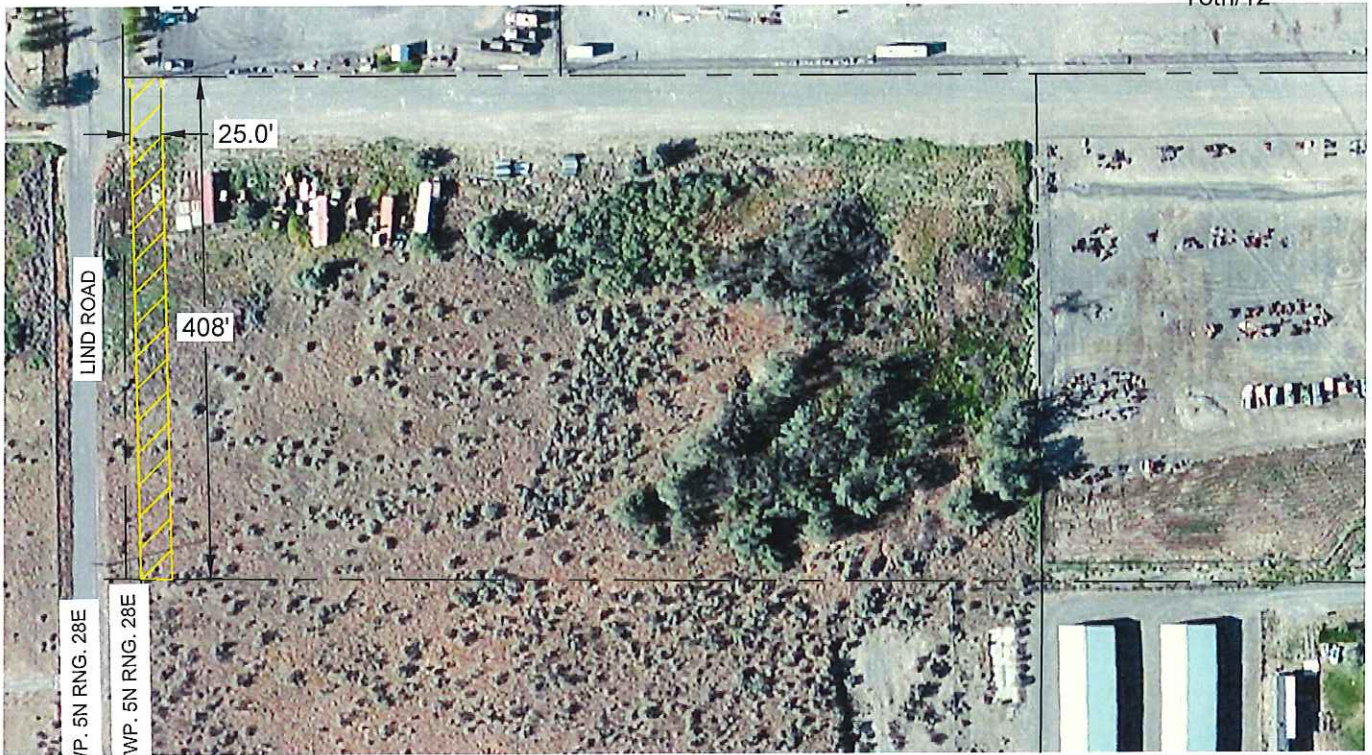
BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 200'

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DATE	REVISION	#	TOOTH & ASSOCIATES		PROJECT:	
02/03/16	EASEMENT REVISED	1	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		BUTTE - MCNARY 115 KV TRANSMISSION LINE	
03/23/16	REVISED FOR REFERENCE	2			DWN BY: DAW CKD BY: JLB APPD BY: LBW DATE: 01/23/15	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE: EASEMENT EXHIBITS STUART BONNEY	
					SHEET NO: CU-816.1	



SE 1/4 SECTION 21, TWP. 5N RNG. 28E
SW 1/4 SECTION 22, TWP. 5N RNG. 28E

OWNER:
ESTATE OF STUART BONNEY
BETTY & AL HIATT, C/O BARNETT & MORO
495 E. MAIN, HERMISTON, OR 97838
JANET BONNEY, GEORGE BONNEY, & KEN BONNEY
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2822 TAX LOT #1900

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 150'

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED AS PARCEL 2 OF PARTITION PLAT 2001-17,
RECORDED IN UMATILLA COUNTY, OREGON AS
DOCUMENT NUMBER 2001-3860258, DATED APRIL 9,
2001.



REQUIRED EASEMENT

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DATE	REVISION	#	TOOTH & ASSOCIATES		PROJECT:	
03/23/16	REVISED FOR REFERENCE	1	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		BUTTE - MCNARY 115 KV TRANSMISSION LINE	
06/08/16	REVISED FOR REFERENCE	2			DWN BY: DAW CKD BY: JLB APPD BY: LBW DATE: 01/23/15	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE: EASEMENT EXHIBITS STUART BONNEY	
					SHT NO: CU-819	


OWNER:
RONALD BUWALDA
ASSESSMENT MAP 5N2827B TAX LOT #1400

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE
EXISTING POWER LINES.

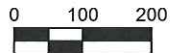
EASEMENT DESCRIPTION:
BEGINNING AT THE NORTHWEST CORNER OF THE
SOUTHWEST ONE-QUARTER OF THE NORTHWEST
ONE-QUARTER (SW1/4 NW1/4) OF SAID SECTION 27,
THENCE SOUTH 28°49'52" EAST A DISTANCE OF 863.62
FEET TO THE TRUE POINT OF BEGINNING OF THIS
LEGAL DESCRIPTION; THENCE NORTH 81°02'29" EAST A
DISTANCE OF 45.00 FEET; THENCE SOUTH 08°57'31"
EAST A DISTANCE OF 15.00 FEET; THENCE SOUTH
81°02'29" WEST A DISTANCE OF 45.52 FEET; THENCE
NORTH 06°58'03" WEST A DISTANCE OF 15.01 FEET TO
THE TRUE POINT OF BEGINNING. CONTAINS 679
SQUARE FEET.



 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 200'

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DATE	REVISION	#	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com		DWN BY: DAW	PROJECT:
02/03/16	REVISED EASEMENT	1			CKD BY: JLB	BUTTE - MCNARY 115 KV TRANSMISSION LINE
03/23/16	REVISED FOR REFERENCE	2			APPD BY: LBW	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
06/08/16	REVISED FOR REFERENCE	3			DATE: 01/23/15	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
			CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		TITLE:	EASEMENT EXHIBITS RONALD BUWALDA
					SHT NO:	CU-823.1



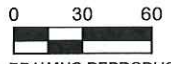
SW 1/4 SECTION 27, TWP. 5N RNG. 28E

BAGGETT LANE

© 2016 Microsoft Corporation



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES
H. SCALE: 1" = 60'

OWNER:
MEDELEZ TRUCKING
(BLANKET EASEMENT IN PAT KIK
VOL 185 PAGE 110)
ASSESSMENT MAP 5N2827CD TAX LOT #800

NOTES:
THE EASEMENT SHALL BE USED FOR THE INSTALLATION AND MAINTENANCE OF POWER POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING POWER LINES.

EASEMENT DESCRIPTION:
GUY ANCHOR EASEMENT LOCATED IN THE SOUTHWEST ONE-QUARTER (SW 1/4) OF SECTION 27, TOWNSHIP 5 NORTH, RANGE 28 EAST, W.M. UMATILLA COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHWEST CORNER OF SUBJECT PROPERTY, THENCE NORTH 89°12'36" EAST ALONG THE NORTH LINE OF BAGGETT ROAD A DISTANCE OF 236.44 FEET TO THE TRUE POINT OF BEGINNING OF THIS LEGAL DESCRIPTION; THENCE NORTH 20°45'23" EAST A DISTANCE OF 51.14 FEET; THENCE SOUTH 69°14'37" EAST A DISTANCE OF 15.00 FEET; THENCE SOUTH 20°45'23" WEST A DISTANCE OF 45.19 FEET TO SAID NORTH RIGHT-OF-WAY LINE; THENCE SOUTH 89°12'36" WEST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 16.13 FEET TO THE TRUE POINT OF BEGINNING. CONTAINS 723 SQUARE FEET.

REQUIRED EASEMENT
 EXISTING EASEMENT

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DATE	REVISION	#
01/29/15	REVISED ASSESSMENT MAP INFORMATION	1
02/03/16	REVISED EASEMENT	2
04/18/16	REVISED FOR REFERENCE	3

TO TH & ASSOCIATES
830 E PRIMROSE, SUITE 200
SPRINGFIELD, MO 65807
Ph: 417-888-0645 Fax: 417-888-0657
www.tothassociates.com
CERTIFICATE OF AUTHORITY:
OR# not required
© 2016 Toth and Associates, Inc.

DWR. BY: DAW	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
CKD BY: JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
APPD. BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE: 01/23/15	TITLE: EASEMENT EXHIBITS MEDELEZ TRUCKING
SHT NO: CU-834	

OWNER:
GERARDO RAMIREZ
32198 E PUNKIN CENTER ROAD
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2834B TAX LOT #405

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER POLES,
LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

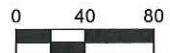
EASEMENT DESCRIPTION:
THE WEST 10 FEET OF THE REAL PROPERTY DESCRIBED AS
TRACT I AND THE EAST 40 FEET OF THE REAL PROPERTY
DESCRIBED AS TRACT II IN THE BARGAIN AND SALE DEED,
STATUTORY FORM, RECORDED IN UMATILLA COUNTY, OREGON AS
DOCUMENT NUMBER 2005-4900343, DATED OCTOBER 13, 2005.



 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 80'

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DATE	REVISION	#			DWN BY:	PROJECT:
03/23/16	REVISED FOR REFERENCE	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE
06/08/16	REVISED FOR REFERENCE	2			CKD BY:	JLB
					APPR BY:	CLIENT:
					LBW	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					DATE:	
					01/23/15	
					TITLE:	EASEMENT EXHIBITS GERARDO RAMIREZ
					SHT NO:	CU-835



OWNER:
DIAMOND M RANCH
PO BOX 99, LAURIER, WA 99146
NO EASEMENT OF RECORD PROVIDED
ASSESSMENT MAP 5N2834B TAX LOT # 407

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER POLES,
LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

EASEMENT DESCRIPTION:
SAID PROPERTY IS DESCRIBED IN A STATUTORY WARRANTY DEED, RECORDED IN UMATILLA COUNTY,
OREGON AS DOCUMENT NUMBER 2013-6120721, DATED DECEMBER 16, 2013.

A STRIP OF LAND 50 FOOT IN WIDTH AS DESCRIBED BELOW.

BEGINNING AT A POINT WHICH LIES SOUTH 89°12'03" WEST 799.55 FEET ALONG SECTION LINE, AND SOUTH 659.99 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 34, THE TRUE POINT OF BEGINNING;
THENCE SOUTH 01°05'11" EAST 111.13 FEET MORE OR LESS TO THE SOUTHERLY PROPERTY LINE, SAID POINT ALSO BEING A POINT ON A 223.06 FOOT RADIUS CURVE TO THE RIGHT;
THENCE SOUTHWESTERLY ALONG SAID LINE AND THE ARC OF SAID CURVE 72.99 FEET (DELTA=18°44'54", CHORD BEARING=S42°23'36"W 72.66 FEET);
THENCE NORTH 01°05'11" WEST 164.21 FEET MORE OR LESS TO THE NORTHERLY PROPERTY LINE,
THENCE NORTH 89°19'20" EAST 50 FEET ALONG SAID NORTHERLY LINE BACK TO THE POINT OF BEGINNING,
ALSO THE POINT OF TERMINATION. LESS AND EXCEPTING ANY PORTION LYING WITHIN THE "R" LINE CANAL.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 80'

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DATE	REVISION	#	TOTH & ASSOCIATES		OWN. BY:	PROJECT:	
01/29/15	REVISED CANAL NAME	1	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0845 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
03/23/16	REVISED FOR REFERENCE	2			CKD BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
08/08/16	REVISED FOR REFERENCE	3			APPD BY:	LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					DATE:	01/23/15	
			TITLE:	EASEMENT EXHIBITS DIAMOND M RANCH	SHT NO:	CU-837	

OWNER:
 JOSE & REBECA GARCIA
 608 W. HERMISTON AVE., HERMISTON, OR 97838
 NO EASEMENT OF RECORD PROVIDED.
 ASSESSMENT MAP 5N2834C TAX LOT #1900

NOTES:
 THE EASEMENT SHALL BE USED FOR THE
 INSTALLATION AND MAINTENANCE OF POWER
 POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
 POWER LINES.

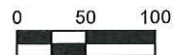
EASEMENT DESCRIPTION:
 CENTERLINE LEGAL DESCRIPTION FOR A POWERLINE
 EASEMENT FIFTY (50) FEET IN WIDTH LYING TWENTY
 FIVE (25) FEET ON EACH SIDE OF THE CENTERLINE,
 LOCATED IN THE SOUTHWEST ONE-QUARTER (SW 1/4)
 OF SECTION 34, TOWNSHIP 5 NORTH, RANGE 28 EAST,
 W.M., UMATILLA COUNTY, OREGON, THE CENTERLINE IS
 MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 BEGINNING AT THE NORTHWEST CORNER OF PARCEL 2
 OF PARTITION PLAT NO. 2002-32, RECORDS OF
 UMATILLA COUNTY, OREGON, THENCE NORTH
 89°16'42" EAST ALONG THE NORTH LINE OF SAID
 PARCEL 2 A DISTANCE OF 82.68 FEET TO THE TRUE
POINT OF BEGINNING OF THIS CENTERLINE
 DESCRIPTION; THENCE SOUTH 01°56'00" WEST A
 DISTANCE OF 456.14 FEET TO THE SOUTH LINE OF SAID
 PARCEL 2 AND THE TERMINATION OF THIS CENTERLINE
 DESCRIPTION. SIDELINES ARE TO BE EXTENDED TO OR
 TERMINATED AT THE NORTH AND SOUTH LINES OF SAID
 PARCEL 2. CONTAINS 22,795 SQUARE FEET.



 REQUIRED EASEMENT



BASIS OF BEARING
 OREGON STATE PLANE
 NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
 AND SCALING MAY CHANGE THE
 INDICATED GRAPHIC SCALES
 H. SCALE: 1" = 100'

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DATE	REVISION	#	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65907 Ph: 417-889-0645 Fax: 417-889-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DWN. BY: DAW	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
02/03/16	REVISED EASEMENT	1			CKD BY: JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
02/17/16	REVISED EASEMENT	2			APPR. BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
03/23/16	REVISED FOR REFERENCE	3			DATE 01/23/15	
10/28/16	REVISED EASEMENT	4			TITLE: EASEMENT EXHIBITS JOSE & REBECA GARCIA	SHT NO: CU-847



OWNER:
MARK & HELEN LARSON
2138 NW GEER ROAD
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED.
ASSESSMENT MAP 4N2803AC TAX LOT #201

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER POLES,
LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED IN AN ASSIGNMENT OF CONTRACT,
RECORDED IN UMATILLA COUNTY, OREGON AS
DOCUMENT NUMBER 2012-6000122, DATED DECEMBER
31, 2012.

 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 100'

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DATE	REVISION	#	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65907 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DWR BY: DAW	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
01/29/15	REVISED ROAD NAME	1		CKD BY: JLB		LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
03/23/16	REVISED FOR REFERENCE	2		APPD BY: LBW		CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
				DATE: 01/23/15		
				TITLE: EASEMENT EXHIBITS MARK AND HELEN LARSON		SHT NO: CU-858



OWNER:
BUSH LLC
680 HARPER ROAD
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED.
ASSESSMENT MAP 4N2803D TAX LOT #1309.

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER POLES,
LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED IN A STATUTORY SPECIAL WARRANTY
DEED, RECORDED IN UMATILLA COUNTY, OREGON AS
DOCUMENT NUMBER 2004-4710262, DATED OCTOBER
22, 2004.



REQUIRED EASEMENT



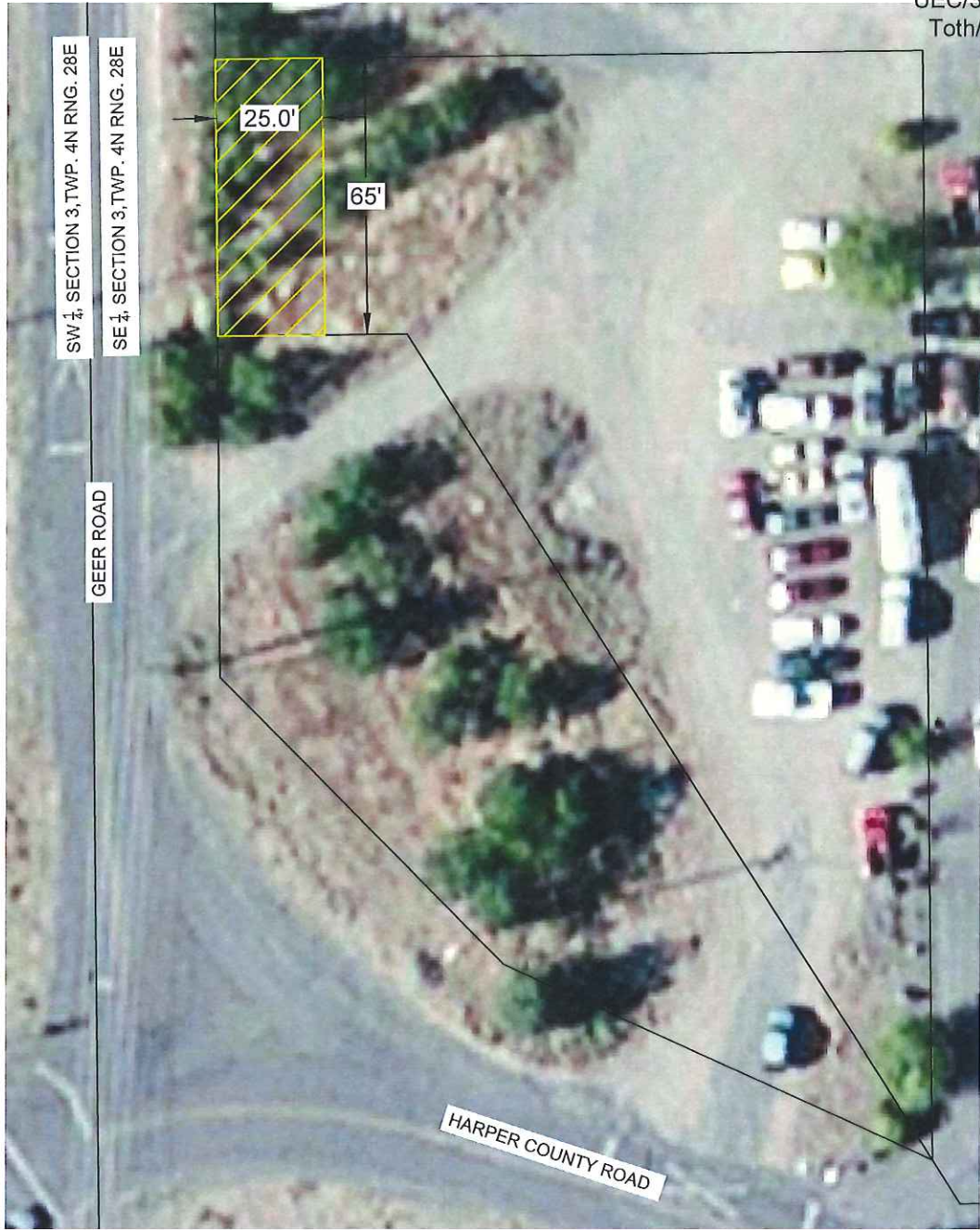
BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 60'

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DATE	REVISION	#			DWG. BY:	PROJECT:				
01/29/15	REVISED ROAD NAME	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65907 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE				
03/23/16	REVISED FOR REFERENCE	2			CKD BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR			
					APPD BY:	LBW	CLIENT:	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA		
					DATE:	01/23/15	TITLE:	EASEMENT EXHIBITS BUSH LLC	SHT NO:	CU-871



OWNER:
TOMMY HUXOLL
1060 JUANITA AVE.
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED.
ASSESSMENT MAP 4N2803D TAX LOT #1311.

 REQUIRED EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 40'

EASEMENT DESCRIPTION:
THE WEST 25 FEET OF THE REAL PROPERTY
DESCRIBED AS TRACT 1 IN A WARRANTY DEED,
RECORDED IN UMATILLA COUNTY, OREGON AS
DOCUMENT NUMBER 1998-3280108, DATED APRIL 23,
1998.

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER POLES,
LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

DATE	REVISION	#	TOTH & ASSOCIATES		DWN BY:	PROJECT:	
01/29/15	REVISED ROAD NAME	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
03/23/16	REVISED FOR REFERENCE	2			CHK BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					APPD BY:	LBW	CLIENT:
					DATE:	01/23/15	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE:	EASEMENT EXHIBITS TOMMY HUXOLL	SHT NO: CU-872



OWNER:
TOMMY HUXOLL
1060 JUANITA AVE.
HERMISTON, OR 97838
NO EASEMENT OF RECORD PROVIDED.
ASSESSMENT MAP 4N2803D TAX LOT #2600.

EASEMENT DESCRIPTION:
BEGINNING AT THE NORTHWEST CORNER OF SUBJECT PROPERTY, THENCE SOUTH 89°36'36" EAST A DISTANCE OF 25.00 FEET; THENCE SOUTH 0°40'36" EAST A DISTANCE OF 47.24 FEET; THENCE SOUTH 87°19'31" EAST A DISTANCE OF 30.44 FEET; THENCE SOUTH 2°40'29" WEST A DISTANCE OF 15.00 FEET; THENCE NORTH 87°19'31" WEST A DISTANCE OF 29.56 FEET; THENCE SOUTH 00°40'36" EAST A DISTANCE OF 58.57 FEET TO THE SOUTH LINE OF SUBJECT PROPERTY; THENCE NORTH 31°35'20" WEST ALONG SAID SOUTH LINE A DISTANCE OF 48.66 FEET; THENCE NORTH 0°40'36" WEST ALONG THE EAST RIGHT-OF-WAY LINE OF GEER ROAD A DISTANCE OF 79.55 FEET TO THE POINT OF BEGINNING. CONTAINS 2,955 SQUARE FEET.



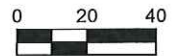
REQUIRED EASEMENT

NOTES:
THE EASEMENT SHALL BE USED FOR THE INSTALLATION AND MAINTENANCE OF POWER POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING POWER LINES.



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES
H. SCALE: 1" = 40'

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DATE	REVISION	#	TOOTH & ASSOCIATES		DRAWN BY:	PROJECT:	
01/29/15	REVISED ROAD NAME	1	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		DAW	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
03/23/16	REVISED FOR REFERENCE	2			CHKD BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					APPD BY:	LBW	CLIENT:
					DATE:	01/23/15	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE:	EASEMENT EXHIBITS TOMMY HUXOLL	SHT NO: CU-873

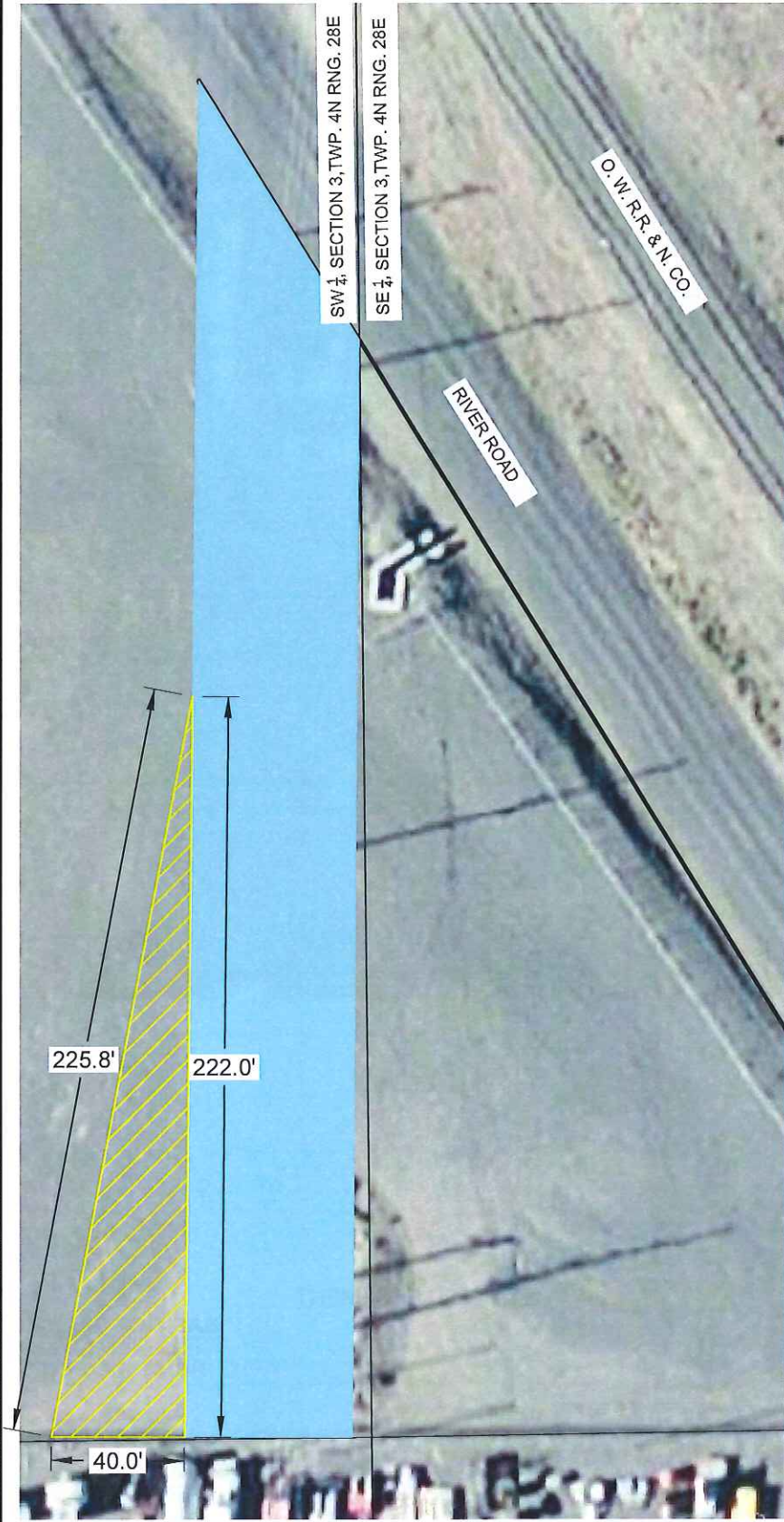
PCN-1
UEC/301
Toth/23



OWNER:
JUAN & MELBA ALMAGUER, JR.
(EXISTING 50 FOOT EASEMENT RECORDED IN
BOOK 2001 PAGE 4020484 UNDER CURTIS &
CAROL OTTMAR.)
ASSESSMENT MAP 4N2803C TAX LOT #902.

NOTES:
THE EASEMENT SHALL BE USED FOR THE
INSTALLATION AND MAINTENANCE OF POWER
POLES, LINES, AND RELATED HARDWARE.

THE NEW INSTALLATION WILL REPLACE EXISTING
POWER LINES.

EASEMENT DESCRIPTION:
BEGINNING AT THE SOUTHEAST CORNER OF
SUBJECT PROPERTY, THENCE WEST ALONG THE
SOUTH LINE OF SUBJECT PROPERTY A DISTANCE
OF 50.00 FEET TO THE WEST LINE OF AN
EASEMENT CONVEYED IN DEEDS BOOK 2001 AT
PAGE 4020484, RECORDS OF UMATILLA COUNTY,
OREGON AND THE TRUE POINT OF BEGINNING OF
THIS LEGAL DESCRIPTION, THENCE WEST ALONG
THE SOUTH LINE OF SUBJECT A DISTANCE OF
40.00 FEET; THENCE NORTH 09°33'29" EAST A
DISTANCE OF 225.11 FEET TO THE WEST LINE OF
SAID EASEMENT CONVEYED IN DEEDS BOOK 2001
AT PAGE 4020484; THENCE SOUTH 00°40'36" EAST
ALONG SAID WEST LINE A DISTANCE OF 222.00
FEET TO THE TRUE POINT OF BEGINNING.
CONTAINS 4,440 SQUARE FEET.



 REQUIRED EASEMENT
 EXISTING EASEMENT



BASIS OF BEARING
OREGON STATE PLANE
NAD 83 NORTH ZONE



NOTE: DRAWING REPRODUCTION
AND SCALING MAY CHANGE THE
INDICATED GRAPHIC SCALES
H. SCALE: 1" = 50'

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DATE	REVISION	#
03/29/16	ISSUED FOR REFERENCE	0

TOTH & ASSOCIATES
830 E PRIMROSE, SUITE 200
SPRINGFIELD, MO 65807
Ph: 417-888-0645 Fax: 417-888-0657
www.tothassociates.com
CERTIFICATE OF AUTHORITY:
OR# not required
© 2016 Toth and Associates, Inc.

OWN BY: DAW	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
EXD BY: JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
APPD BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE: 01/23/15	TITLE: EASEMENT EXHIBITS JUAN & MELBA ALMAGUER, JR.
	SHT NO: CU-874

BUTTE-MCNARY: MAILING ADDRESSES FOR UNSECURED EASEMENT LANDOWNERS

PAGE #	TAX LOT #	OWNER	MAILING ADDRESS
CU-803	100	ANACAPA LAND CO., LLC	PO BOX 11749, PLEASANTON CA 94588
CU-808	4090	CHARLO, CLARENCE & GERALDINE	81999 LIND RD, UMATILLA OR 97882
CU-814	2000	FORDICE, CLINTON	PO BOX 653, HERMISTON OR 97838
CU-816	700	ESTATE OF STUART BONNEY	PO BOX 1287, HERMISTON OR 97838
CU-816.1	100	ESTATE OF STUART BONNEY	PO BOX 1287, HERMISTON OR 97838
CU-819	1900	ESTATE OF STUART BONNEY	PO BOX 1287, HERMISTON OR 97838
CU-823.1	1400	RONALD BUWALDA	32518 CHRISTLEY LN, HERMISTON OR 97838
CU-834	800	MEDELEZ TRUCKING INC	30522 OLDFIELD ST, HERMISTON OR 97838
CU-835	405	RAMIREZ, GERARDO	32198 E PUNKIN CENTER RD, HERMISTON OR 97838
CU-836	200	RAMIREZ, GERARDO	32198 E PUNKIN CENTER RD, HERMISTON OR 97838
CU-837	407	DIAMOND M RANCH	646 LAKE RD, BURBANK WA 99323
CU-847	1900	GARCIA, JOSE & REBECA	608 W HERMISTON AVE, HERMISTON OR 97838
CU-858	201	MARK LARSON	1385 NW SJOREN LN, HERMISTON OR 97838
CU-871	1309	BUSH, LLC	PO BOX 1283, HERMISTON OR 97838
CU-872	1311	HUXOLL, TOMMY L	1060 JUANITA AVE, HERMISTON OR 97838
CU-873	2600	HUXOLL, TOMMY L	1060 JUANITA AVE, HERMISTON OR 97838
CU-874	902	JUAN & MELBA ALMAGUER, JR.	79479 CANAL RD, STANFIELD OR 97875

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON
PCN-1

In the Matter of the Petition of)
UMATILLA ELECTRIC COOPERATIVE)
PETITION FOR CERTIFICATE OF)
PUBLIC CONVENIENCE AND)
NECESSITY)
)
)
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_____)

EXHIBIT UEC/302

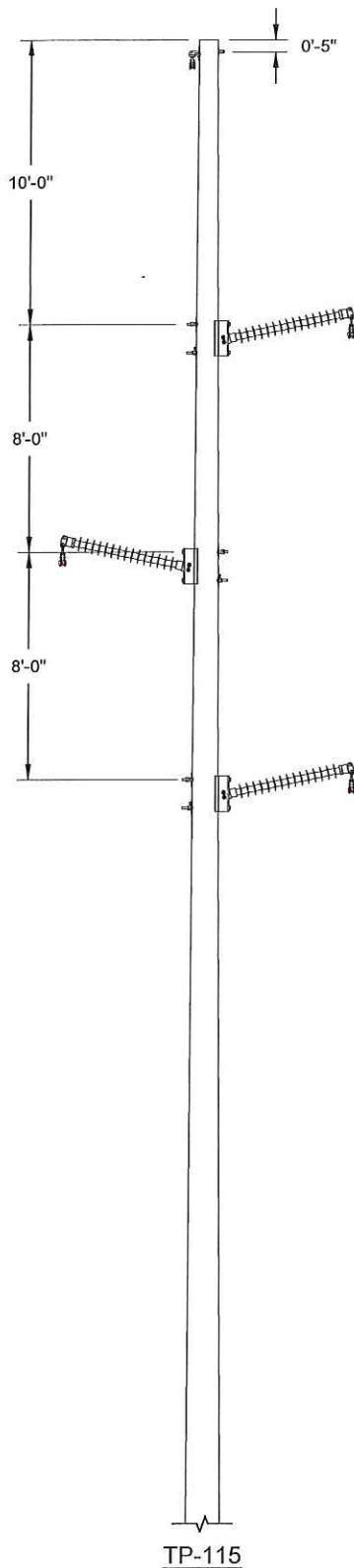
November 18, 2016

Below is a list of each change made to UEC's original Exhibit UEC/108, each of which are reflected in the following pages.

- The drawings have been condensed from 11 pages to 10 pages by maximizing space used on each page.
- The overall project length and scope have not changed.
- Str 3: Structure has been shifted north 35' to prevent encroachment on Bureau of Reclamation right-of-way.
- Str 9: Pole height has been decreased from 105' to 100' to accommodate the addition of structure 10.1 near the 69 kV line crossing at Power City Road.
- Str 9: Unit CS6.72F has been renamed to CS6.72F (123 AAAC) to describe the type of existing distribution wire attached to the unit.
- Str 10: Pole height has been decreased from 115' to 105' to accommodate the addition of structure 10.1.
- Str 10.1: This structure has been added to shorten the span and reduce the sag of the proposed line at the 69 kV line crossing near Power City Road.
- Str 11: Pole height has been decreased from 115' to 105' to accommodate the addition of structure 10.1.
- Str 11: Structure has been shifted south 16' to prevent encroachment on Bureau of Reclamation right-of-way.
- Str 11: Unit AS5.21A has been renamed to AS5.21A (#4 Copper) to describe the type of existing distribution wire attached to the unit.
- Str 12: Pole height has been decreased from 105' to 100' to accommodate the addition of structure 10.1.
- Str 12: TM-4G(OPGW) units have been removed. These were additional attachment units used for the static wire. They are no longer needed with the addition of structure 10.1.
- Str 14: Structure class has been increased from H5 to H6 for additional pole strength.
- Str 15: Structure class has been increased from H4 to H5 for additional pole strength.
- Str 18: Structure class has been increased from H5 to H6 for additional pole strength.
- Str 20: Unit TH-15E has been changed to TH-5AB to correspond with typical RUS drawing designations.
- Str 21: Unit TH-15DA has been changed to TH-5AD to correspond with typical RUS drawing designations.
- Str 22: Unit TH-15F has been changed to TH-5AC to correspond with typical RUS drawing designations.


- Str 25: Structure class has been increased from H4 to H5 for additional pole strength.
- Str 27: Structure class has been increased from H4 to H5 for additional pole strength.
- Str 27: Unit A6.21 has been renamed to A6.21 (#4 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 30: Unit A5.21 has been renamed to A5.21 (123 AAAC) to describe the type of existing distribution wire attached to the unit.
- Str 34: Stub pole class has been decreased from 1 to 3 for optimization.
- Str 35: Structure has been modified to be self-supporting. The pole material has been changed from wood to steel and the stub pole (unit 30-1) and guy wires have been removed. All other units have been adjusted to their steel counterparts. These changes were made to avoid schedule delays caused by encroaching on Bureau of Land Management property.
- Str 36: Unit CS1.41P-A has been adjusted to CS1.41P to avoid schedule delays caused by encroaching on Bureau of Land Management property.
- Str 37: Unit CS1.41P-A has been adjusted to CS1.41P to avoid schedule delays caused by encroaching on Bureau of Land Management property.
- Str 38: Structure has been shifted 81' south to avoid interference with a high pressure water line.
- Str 39: Structure has been modified to be self-supporting. The pole material has been changed from wood to steel and guy wires have been removed. All other units have been adjusted to their steel counterparts. These changes were made to avoid schedule delays caused by encroaching on Bureau of Land Management property.
- Str 40: Structure has been shifted 8' north to increase clearance on span between 39 and 40.
- Str 46: TM-4G(OPGW) units have been removed. These were additional attachment units needed for the static wire to facilitate splicing the static. The splice has been moved and these units are no longer needed on this structure.
- Str 49: Unit C1.41P has been replaced with S2.32A. This modification adds distribution switches to the pole.
- Str 55: Stub pole class has been increased from 3 to 2 for additional pole strength.
- Str 55: Unit C6.72F has been renamed to C6.72F (123 AAAC) to describe the type of existing distribution wire attached to the unit.
- Str 60: One of the C1.41P units has been renamed to C1.41P (1/0 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 69: Unit A5.21 has been renamed to A5.21 (123 AAAC) to describe the type of existing distribution wire attached to the unit.
- Str 70: Unit A5.21 has been renamed to A5.21 (#4 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 71: Structure class has been increased from H4 to H5 for additional pole strength.

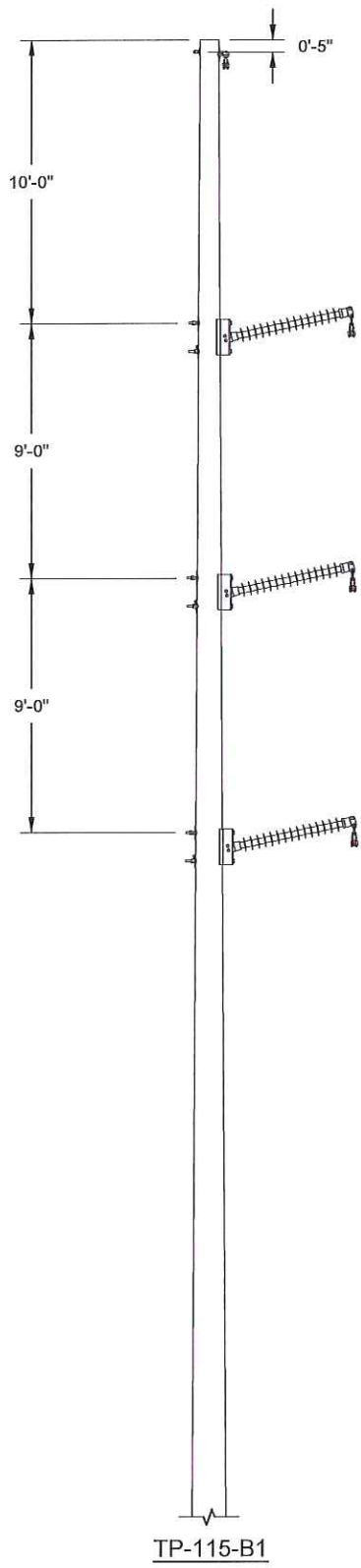
- Str 72: Unit A5.21 has been renamed to A5.21 (#4 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 76: Distribution circuit coming into structure from north has been moved up to attach to top circuit running south.
- Str 77: Unit C5.72 has been renamed to C5.72 (123 AAAC) to describe the type of existing distribution wire attached to the unit.
- Str 80: Unit C5.72 has been renamed to C5.72 (#4 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 82: Unit CS5.72 has been renamed to CS5.72B (#4 ACSR) to describe the type of existing distribution wire attached to the unit and adjust the tap line configuration.
- Str 85: Unit CS5.72A has been renamed to CS5.72A (#4 ACSR) to describe the type of existing distribution wire attached to the unit.
- Str 90: Structure has been shifted north 26' to prevent encroachment on Bureau of Reclamation right-of-way.
- Str 95: A communication line that ends on structure 94 now ends on structure 95.



TP-115


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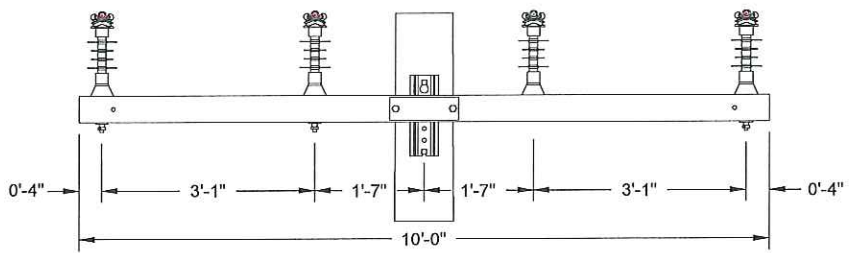
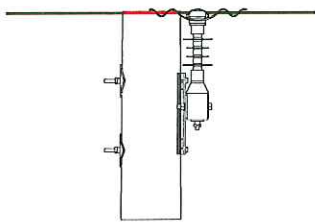
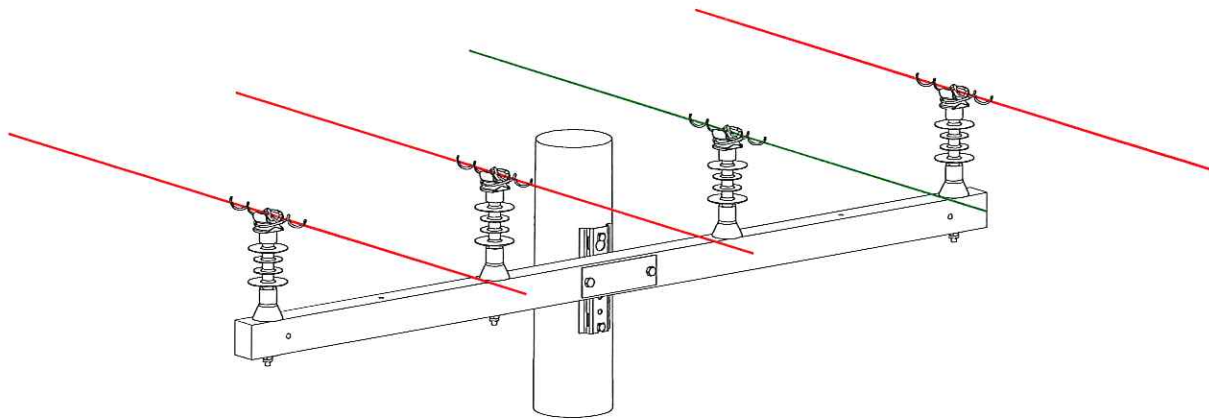
DATE	REVISION	#	TOTH & ASSOCIATES		PROJECT:	
03/24/16	ISSUED FOR APPLICATION	0	 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		BUTTE - MCNARY 115 KV TRANSMISSION LINE	
					OWN. BY: SRC	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					CHK. BY: JLB	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					APPD. BY: LBW	
			DATE: 03/23/16	TITLE: TRANSMISSION LINE STRUCTURE HORIZONTAL LINE POST	SHT NO: TP-115	



TP-115-B1

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DATE	REVISION	#			DWN. BY:	PROJECT:	
05/16/16	ISSUED FOR APPLICATION	0	830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		SRC	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
					CRD BY:	JLB	LOCATION: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					APPD BY:	LBW	CLIENT:
					DATE:	05/16/16	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE:	TRANSMISSION LINE STRUCTURE HORIZONTAL LINE POST	SHT NO: TP-115-B1



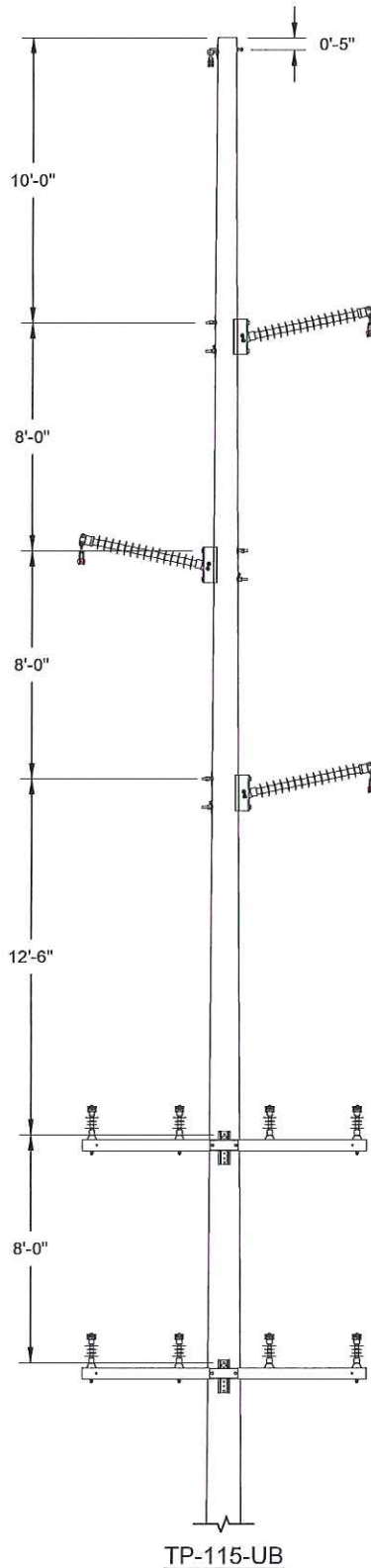
C1.41P

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DATE	REVISION	#
03/24/16	ISSUED FOR APPLICATION	0
07/14/16	REVISED FOR APPLICATION	1

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 830 E PRIMROSE, SUITE 200
 SPRINGFIELD, MO 65807
 Ph: 417-888-0645 Fax: 417-888-0657
 www.tothassociates.com
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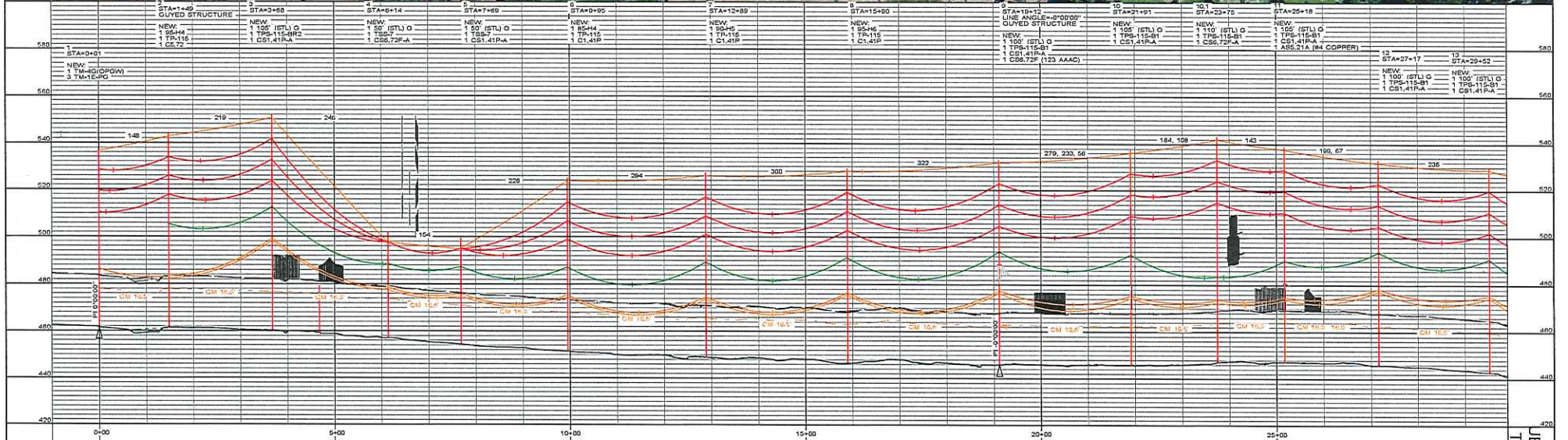
DWN. BY: SRC	PROJECT: BUTTE - MCNARY 115 KV TRANSMISSION LINE
CKO BY: JLB	LOCATION: QA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
APPD BY: LBW	CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
DATE: 03/23/16	TITLE: 3-PHASE PRIMARY PUPU CROSSARM W/ NEUTRAL ON ARM
SHT NO: C1.41P	



TP-115-UB

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DATE	REVISION	#	TOTH & ASSOCIATES		DWN BY:	PROJECT:	
03/24/16	ISSUED FOR APPLICATION	0	TOTH & ASSOCIATES 830 E PRIMROSE, SUITE 200 SPRINGFIELD, MO 65807 Ph: 417-888-0645 Fax: 417-888-0657 www.tothassociates.com CERTIFICATE OF AUTHORITY: OR# not required © 2016 Toth and Associates, Inc.		SRC	BUTTE - MCNARY 115 KV TRANSMISSION LINE	
07/14/16	REVISED FOR APPLICATION	1			CKD BY:	JLB	LOCATION: LA: 45.917091°, LN: -119.307423° TO LA: 45.851743°, LN: -119.299943°, UMATILLA COUNTY, OR
					APPD BY:	LBW	CLIENT:
					DATE:	03/23/16	UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA
					TITLE:	TRANSMISSION LINE STRUCTURE TANGENT HORIZONTAL LINE POST W/ U.B.	SHT NO: TP-115-UB



REGION INFORMATION	
RULING SPAN = 300-FT	TRANSMISSION CONDUCTOR
SIZE = 1272 ACSR (PHEASANT)	D. T. = 7,600-LBS (NESC MEDIUM-INITIAL)
CURVE SHOWN AT 212° F (FINAL)	
STATEWIRE	SIZE = AFL, CC-75-528-48F, (OPCW)
D. T. = 3,500-LBS (NESC MEDIUM-INITIAL)	CURVE SHOWN AT EXTREME CGLD (300° F)
DISTRIBUTION	SIZE = 556 AAC (DAHLIA)
D. T. = 3,400-LBS (NESC MEDIUM-INITIAL)	CURVE SHOWN AT 167° F (FINAL)

CLEARANCES	
GROUND	ROAD RAILROAD WATER
22'	22' 22' 22'
LOADING	
STD = NESC MEDIUM LOADING	
WIND	ICE K F
45-PSF 1/4-IN 0.2 15-DEG	
R.O.W. WIDTH: 25-FT	

OREGON UTILITY NOTIFICATION CENTER

KNOW WHATS BELOW, CALL BEFORE YOU DIG.

1-800-332-2344

WWW.DIGSAFE.OREGON.COM

100.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

ISSUED FOR REFERENCE
10/27/16

DATE	REVISION

TOH & ASSOCIATES

200 S. PHOENIX, SUITE 200
SPRINGFIELD, MO 65707
PH: 417-888-4444 FAX: 417-888-4447
WWW.TOHPROJECTS.COM
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE: 3/9/2015

NOTE: AS NOTED

DESIGNED: HERRINGTON
CHECKED: HERRINGTON
DRAWN: HERRINGTON
DATE: 3/9/2015

BUTTE-MCENARY 115 KV TRANSMISSION LINE

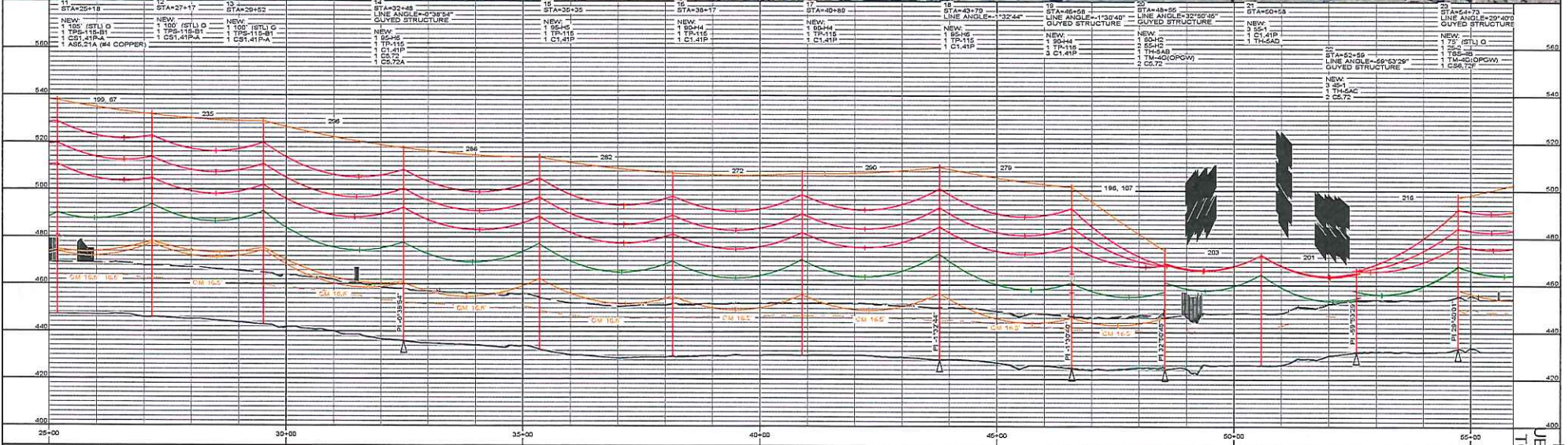
PROJECT: BUTTE-MCENARY 115 KV TRANSMISSION LINE
LOCATION: LAT: 46.817202, LONG: -119.307284 TO LAT: 46.862382, LONG: -119.300948 UMATILLA COOP. 115 KV
OWNER: UMATILLA ELECTRIC COOPERATIVE
HERMISTON, OREGON
OREGON-14-UMATILLA

DATE: 3/9/2015

PLAN AND PROFILE
STA. -1+00 TO 29+91

CU-101

JEC/302
 TO 4/16
 PART 1



DESIGN INFORMATION	
RULING SPAN = 300-FT	
TRANSMISSION CONDUCTOR	
SIZE = 1272 AACSR (PHEASANT)	
D.T. = 7,800-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOWN AT 212° F (FINAL)	
STATIC WIRE	
SIZE = APL CC-75-528-48F (CPOW)	
D.T. = 3,500-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOWN AT EXTREME COLD (-20° F)	
DISTRIBUTION	
SIZE = 556 AAC (DAHLIA)	
D.T. = 3,400-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOWN AT 167° F (FINAL)	

CLEARANCES			
GROUND	ROAD	RAILROAD	WATER
22'	22'	32'	22'
LOADING			
STD = NESC MEDIUM LOADING			
WIND	ICE	K	F
4-PSF	1/4-IN	0.2	16-DEC
R.O.W. WIDTH: 25-FT			

OREGON UTILITY NOTIFICATION CENTER

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1-800-332-2344
WWW.DIGSAFELY.OREGON.COM

100.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

ISSUED FOR REFERENCE 10/27/16

DATE	REVISION

TOOTH & ASSOCIATES

202 E PHOENIX SUITE 301
SPRINGFIELD, MO 65762
PH: 417-899-4141 FAX: 417-899-0837
WWW.TOOTHANDASSOCIATES.COM
COURTESY OF AECOM
GIP NOT REQUIRED
LINE ITEM: 14-000000-0000-0000
DATE: 10/27/16

BUTTE-MCNARY 115 KV TRANSMISSION LINE

UMATILLA ELECTRIC COOPERATIVE
HERMISTON, OREGON
OREGON-14-UMATILLA

PLAN AND PROFILE
STA. 25+00 TO 55+91

DATE: 3/9/2015

PROJECT: BUTTE-MCNARY 115 KV TRANSMISSION LINE

LOCATION: LAT: 46.817203, LON: -119.307264 TO LAT: 45.851052, LON: -119.308043 UMATILLA COUNTY, OREGON

SCALE: AS NOTED

DATE: 10/27/16

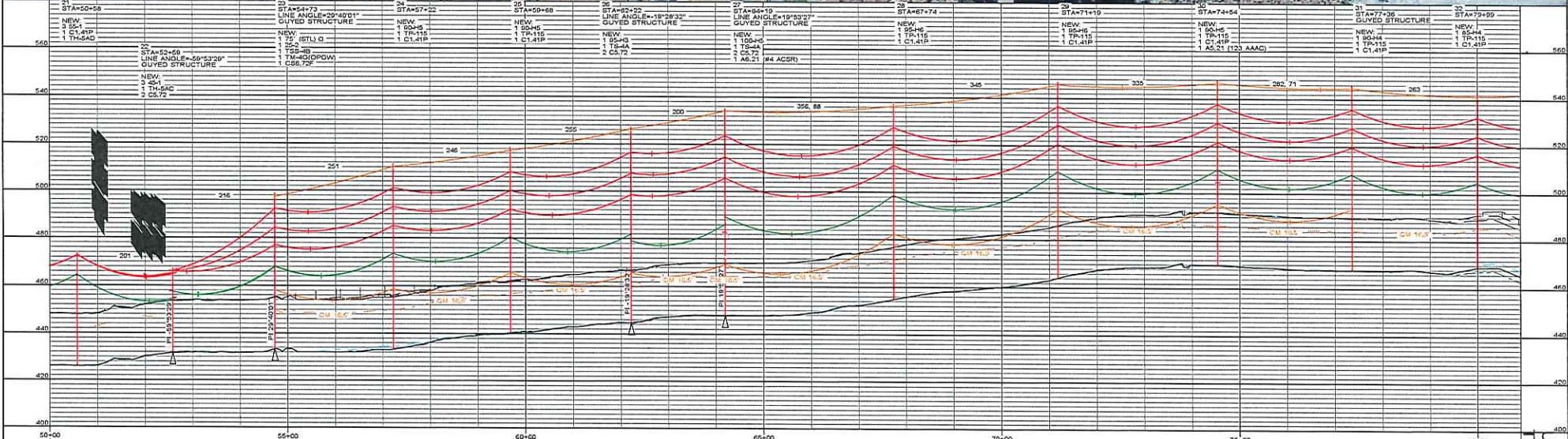
PROJECT: BUTTE-MCNARY 115 KV TRANSMISSION LINE

LOCATION: LAT: 46.817203, LON: -119.307264 TO LAT: 45.851052, LON: -119.308043 UMATILLA COUNTY, OREGON

SCALE: AS NOTED

DATE: 10/27/16

PEN-1
JEC/302
TO 11/16



DESIGN INFORMATION		CLEARANCES		OREGON UTILITY NOTIFICATION CENTER		DATE		REVISION		PROJECT	
RULING SPAN = 300-FT		GROUND 22'				DATE		REVISION		PROJECT	
TRANSMISSION CONDUCTOR		ROAD 22'				DATE		REVISION		PROJECT	
SIZE = 1272 AACR (PHEASANT)		RAILROAD 33'				DATE		REVISION		PROJECT	
D.T. = 7,800-LBS (NESC MEDIUM-INIAL)		WATER 22'				DATE		REVISION		PROJECT	
CURVE SHOWN AT 212' F (FINAL)						DATE		REVISION		PROJECT	
STATE WIRE						DATE		REVISION		PROJECT	
SIZE = AFL, CC-75-526-48F (CPOW)						DATE		REVISION		PROJECT	
D.T. = 3,500-LBS (NESC MEDIUM-INIAL)						DATE		REVISION		PROJECT	
CURVE SHOWN AT 167' F (FINAL)						DATE		REVISION		PROJECT	
DISTRIBUTION						DATE		REVISION		PROJECT	
SIZE = 656 AAC (DAHLIA)						DATE		REVISION		PROJECT	
D.T. = 3,400-LBS (NESC MEDIUM-INIAL)						DATE		REVISION		PROJECT	
CURVE SHOWN AT 167' F (FINAL)						DATE		REVISION		PROJECT	

ISSUED FOR REFERENCE
10/27/16

TOOTH & ASSOCIATES

838 E PHOENIX, SUITE 200
SPRINGFIELD, MO 65707
PH: 417-884-8844 FAX: 417-884-0847
WWW.TOOTH-AND-ASSOCIATES.COM
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BUTTE-MCENARY 115 KV TRANSMISSION LINE

HEMSTON, OREGON

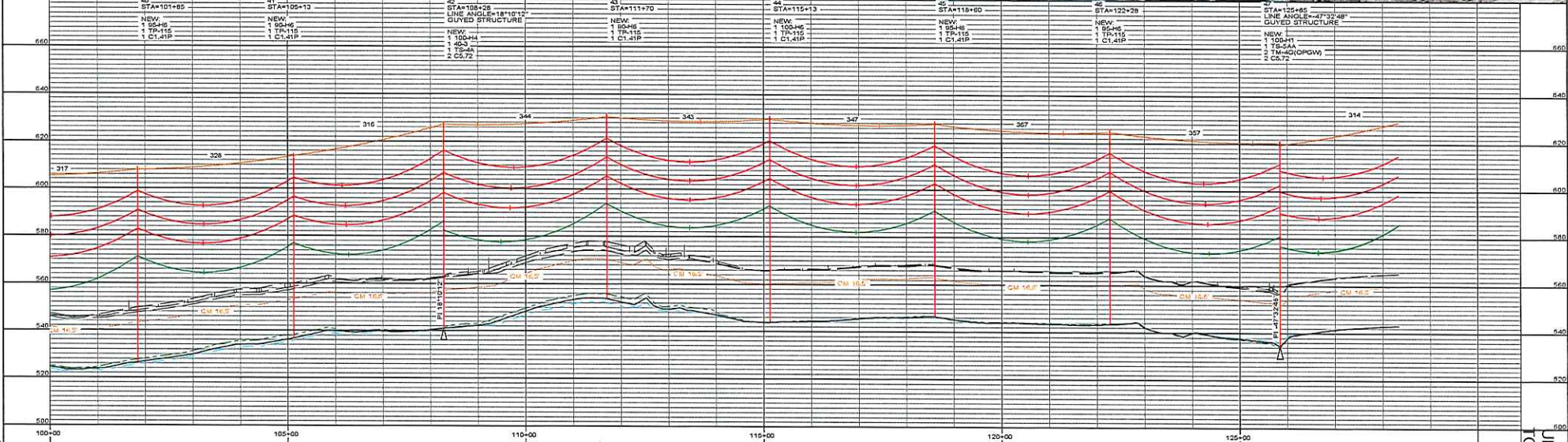
UMATILLA ELECTRIC COOPERATIVE

OREGON-14-UMATILLA

PLAN AND PROFILE
STA. 50+00 TO 80+91

CU-103

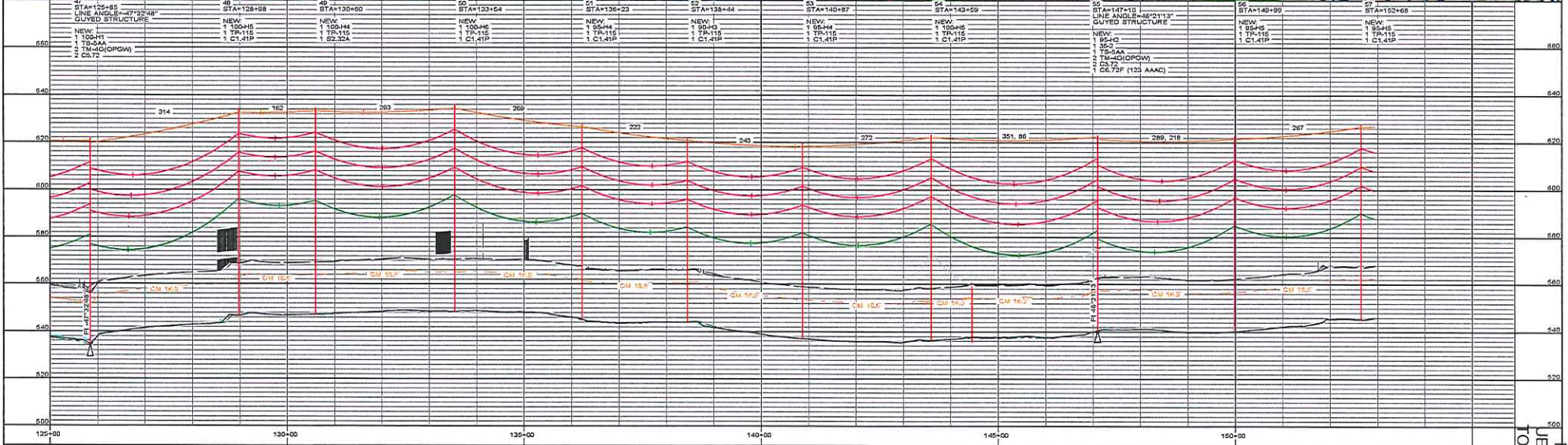
POINT
JEC/302
TOM/140



DESIGN INFORMATION RULING SPAN = 300-FT TRANSMISSION CONDUCTOR/SP SIZE = 1272 AACSR (PHEASANT) D.T. = 7,800-LBS (NESC MEDIUM-INITIAL) CURVE SHOWN AT 212° F (FNAL)		CLEARANCES GROUND ROAD RAILROAD WATER 22' 22' 32' 22'		LOADING STD * NESC MEDIUM LOADING WIND ICE K F 25-PSF 16-MIN 0.2 15-DEG R.O.W. WIDTH 25-FT		OREGON UTILITY NOTIFICATION CENTER KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. OUI 1-800-332-2344 WWW.DIGSAFELYOREGON.COM		DATE REVISION		 832 E. PINEVILLE, SUITE 300 SPRINGFIELD, MO 65707 PH: 417-882-8800 FAX: 417-882-8807 WWW.TOOTHANDASSOCIATES.COM OREGON LICENSE # 140000000 OUI NOT REQUIRED		SHEET NO. 3/9/2015 DATE AS NOTED DRAWN BY: JLB CHECKED BY: LBN DATE: 3/9/2015 SCALE: AS NOTED		PROJECT: BUTTE-MCNARY 115 KV TRANSMISSION LINE LOCATION: LAT. 45.917202, LONG. -119.307564 TO LAT. 46.861000, LONG. -119.300800 UMATILLA COUNTY, OREGON CLIENT: UMATILLA ELECTRIC COOPERATIVE HERMISTON, OREGON OREGON-14-UMATILLA		SHEET TITLE: PLAN AND PROFILE STA. 100+00 TO 128+34 SHEET NO. CU-105	
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ISSUED FOR REFERENCE 10/27/16

JEC/3/2015
 TOOTH & ASSOCIATES



DESIGN INFORMATION	
RULING SPAN = 330-FT	TRANSMISSION CONDUCTOR
SIZE = 1272 ACGR (PHEASANT)	SIZE = 558 AAC (DAHLIA)
D.T. = 7.800-LBS (NESC MEDIUM-INITIAL)	D.T. = 3.400-LBS (NESC MEDIUM-INITIAL)
CURVE SHOWN AT 212' F (FINAL)	CURVE SHOWN AT 167' F (FINAL)
DISTRIBUTION	
SIZE = 558 AAC (DAHLIA)	SIZE = 558 AAC (DAHLIA)
D.T. = 3.400-LBS (NESC MEDIUM-INITIAL)	D.T. = 3.400-LBS (NESC MEDIUM-INITIAL)
CURVE SHOWN AT 167' F (FINAL)	CURVE SHOWN AT 167' F (FINAL)

CLEARANCES			
GROUND	22'		
ROAD	22'		
RAILROAD	32'		
WATER	22'		
LOADING			
STD = NESC MEDIUM LOADING			
WIND	ICE	K	F
4-PSF	1/4-IN	0.2	15-DEG
R.G.W. WIDTH: 25-FT			

OREGON UTILITY NOTIFICATION CENTER

SHOW WHAT'S BELOW. CALL BEFORE YOU DIG, OR 1-800-332-2344

100.0 FT. HORIZ. SCALE
25.0 FT. VERT. SCALE

ISSUED FOR REFERENCE 10/27/16

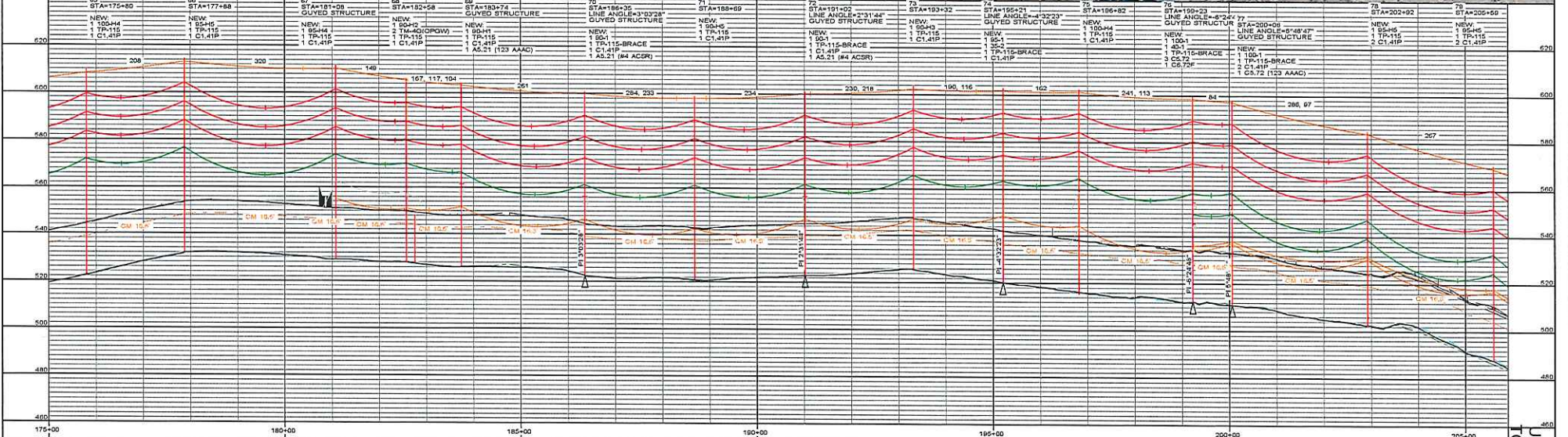
DATE	REVISION

ATOTH & ASSOCIATES

158 E. HINSHAW BLVD. SUITE 300
SPRINGFIELD, MO 65804
PH: 417-883-8888 FAX: 417-883-8887
WWW.ATOTHENGINEERS.COM
LICENSED PROFESSIONAL ENGINEER
STATE OF MISSOURI
EMP. NOT REQUIRED

PROJECT	BUTTE-MCNARY 115 KV TRANSMISSION LINE
LOCATION	LAT: 45.917282, LON: -119.307384 TO LAT: 45.861282, LON: -119.30098 UMATILLA COUNTY, OREGON
DATE	3/9/2015
SCALE	AS NOTED
DESCRIPTION	PLAN AND PROFILE STA. 125+00 TO 152+94
PROJECT NO.	CU-106

JEC/302
TOT/143
PENT 1



CLEARANCES			
GROUND	ROAD	RAILROAD	WATER
22'	22'	32'	22'
LOADING			
STD	NESC MEDIUM LOADING		
WIND	ICE	K	F
15-DEG	1/4-IN	0.2	15-DEG
R.O.W. WIDTH: 25-FT			

OREGON UTILITY NOTIFICATION CENTER

WARNING: WHAT'S BELOW, CALL BEFORE YOU DRILL.

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WWW.DIGSAFELYOREGON.COM

100.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

ISSUED FOR REFERENCE 10/27/16

DATE	REVISION

TOOTH & ASSOCIATES

800 E. HAWTHORNE, SUITE 300
SPRINGFIELD, MO 65807
PH: 417-899-4444 FAX: 417-899-8827
WWW.TOOTHANDASSOCIATES.COM
LICENSED PROFESSIONAL ENGINEER
STATE OF MISSOURI
DIP NOT REQUIRED
LICENSE NO. 000000000000

BUTTE-MCNARY 115 KV TRANSMISSION LINE

UMATILLA ELECTRIC COOPERATIVE
HERMISTON, OREGON
OREGON-14-UMATILLA

PLAN AND PROFILE
STA. 175+00 TO 205+91

DATE: 3/9/2015

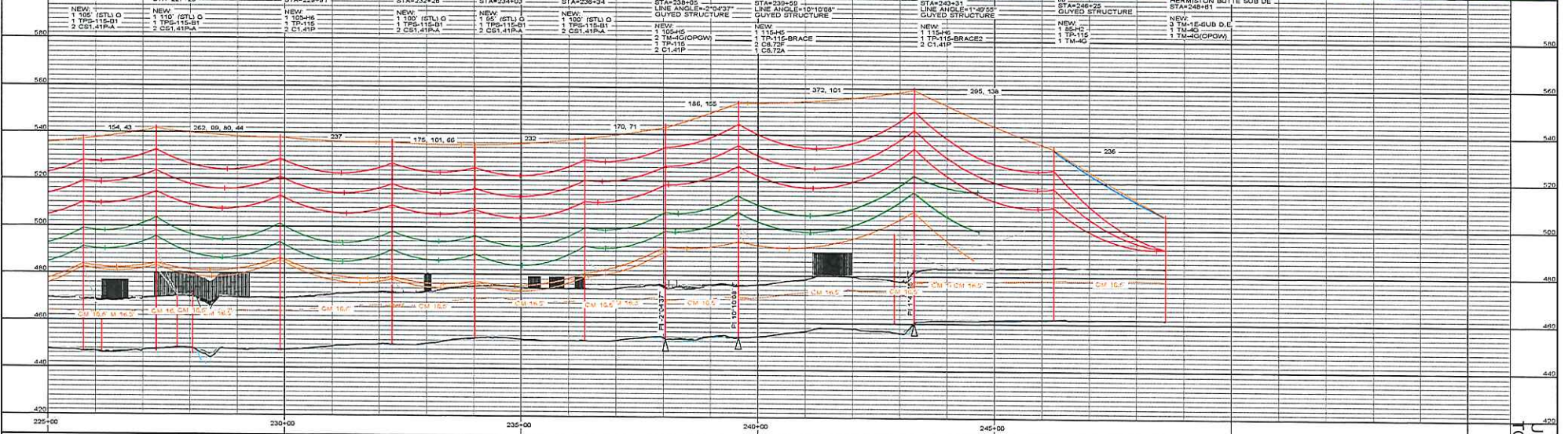
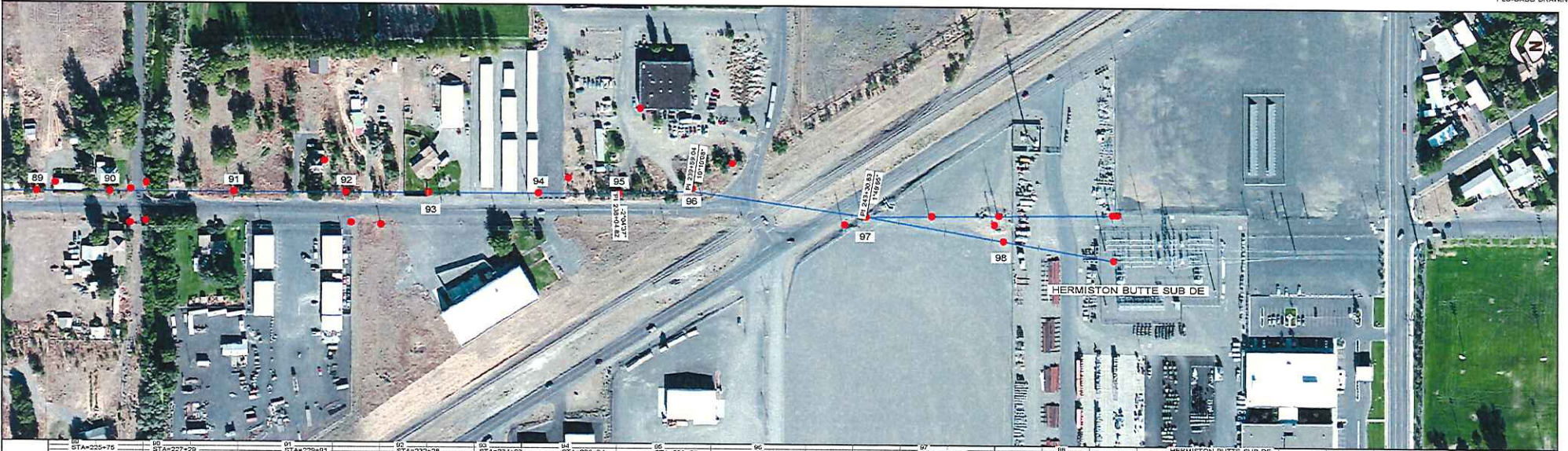
SCALE: AS NOTED

PROJECT: JEC/303

TOTAL: 10/11/16

REV: 1

CU-108



DESIGN INFORMATION	
RULING SPAN = 300-FT	
TRANSMISSION CONDUCTOR:	
SIZE = 1272 ACSSR (PHEASANT)	
D.T. = 7,800-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOW NAT 212° F (FINAL)	
STATIC WIRE:	
SIZE = AFL, CC-79-528-48F, (OPGW)	
D.T. = 3,500-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOW NAT 167° F (FINAL)	
DISTRIBUTION:	
SIZE = 306 AAC (DAHLIA)	
D.T. = 3,400-LBS (NESC MEDIUM-INITIAL)	
CURVE SHOW NAT 167° F (FINAL)	

CLEARANCES	
GROUND	22'
ROAD	22'
RAILROAD	32'
WATER	22'

LOADING	
STO = NESC MEDIUM	
WIND	ICE
R.O.W. WIDTH	25-FT

OREGON UTILITY NOTIFICATION CENTER	
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WWW.DIGSAFELY.OREGON.COM	

DATE	REVISION

ATOTH & ASSOCIATES

550 E. PRINCEPOLE, SUITE 300
 SPRINGFIELD, MO 65762
 PH: 417-882-8888 FAX: 417-882-8887
 WWW.ATOTHANDASSOCIATES.COM
 GUYTONVILLE, VA 22935

DATE: 3/9/2015
 DRAWN BY: JLB
 CHECKED BY: LBW
 AS NOTED

PROJECT: BUTTE-MCNARY 115 KV TRANSMISSION LINE

LOCATION: LAT: 46.917202, LON: -119.397364 TO LAT: 46.891262, LON: -119.399916 UMATILLA COUNTY, OREGON

CLIENT: UMATILLA ELECTRIC COOPERATIVE
 HERMISTON, OREGON
 OREGON-14-UMATILLA

PLAN AND PROFILE
 STA. 225+00 TO 248+62

DATE: 10/27/16

SCALE: HORIZ. SCALE: 1"=100 FT. VERT. SCALE: 1"=20.0 FT.

ISSUED FOR REFERENCE
 10/27/16

JEC/300
 TOT/141
 PEN-1