

RIGHT OF WAY SURVEY
A PORTION OF BUTTER CREEK ROAD

Situated in:
 T.2N., R.27E., W.M., Umatilla County, Oregon:
 NW1/4, SW 1/4 & SE 1/4 Sec. 34

T.2N., R.27E., W.M., Morrow County, Oregon:
 SE 1/4 Sec. 28
 NE 1/4 Sec. 33

T.1N., R.27E., W.M., Morrow County, Oregon:
 NE 1/4 Sec. 3
 NE1/4 Sec. 10
 February 30, 2016

NARRATIVE

This survey was performed at the request of the Morrow County Public Works Department to locate and monument the right of way of Butter Creek Road, commencing near its intersection with Highway 207 in the SE 1/4 of Section 28, T. 2N., R.27E. W.M., thence southerly to its intersection with the Little Butter Creek Road in the NE1/4 of Section 10, T. 1N., R.27E., W.M.

In order to locate and monument the right of way, we recovered several Public Land Corner monuments as shown. The Approximate Section Lines are shown based on the recovered monuments and surveys listed in the "References".

The existing traveled roadway centerline was field tied. We also recovered monuments from an ODOT survey, Umatilla Map of Survey #14-155-B, filed in 2014.

Umatilla County Records, Box E, Titled "Butter Creek Road, Jarmon ~ Pine City Section", by H. Tamblin, County Engineer, indicates some type of survey was performed along this section of the road. This drawing does not indicate whether this is an existing road survey or a proposed realignment.

Engineer's stations as shown herein are based the recovered monuments from the 2014 ODOT survey, at Engineer's station 58+21.10. In general, the tangent delta angles from Tamblin's survey were held. Curves and tangent lengths are modified to fit the existing geometry.

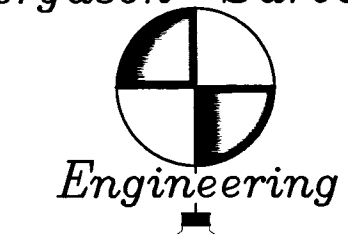
The right of way is monumented as shown.

This survey was performed using a Topcon Hyper II GPS System.

LEGEND

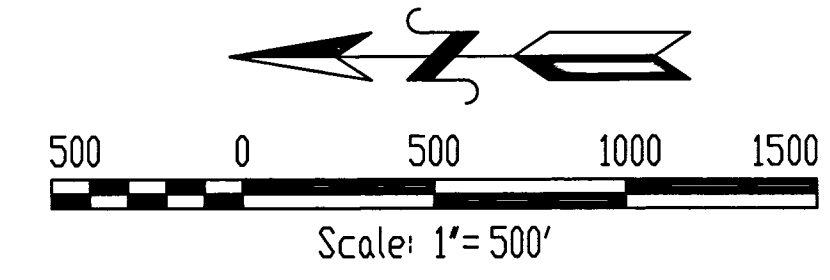
- GLD<BEARING/DIST> BEARING/DISTANCE RETURNED BY EBONEZER UNDER CONTRACTR NUMBER 93, DATED SEPTEMBER 11, 1860.
- 1<BEARING/DIST/STA> BEARING/DISTANCE OR CENTERLINE DATA RETURNED BY H. TAMBLYN, ON A SURVEY TITLED "BUTTER CREEK ROAD, JARMON - PINE CITY SECTION" FOR THE MORROW COUNTY HIGHWAY DEPT. NO DATE INDICATED.
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- FOUND MONUMENT OF RECORD. SEE NOTE AT SYMBOL.
- ☒ CALCULATED POSITION. NO MONUMENT FOUND OR SET.
- RIGHT OF WAY CENTERLINE
- - - SHEET INDEX LINES

Ferguson Surveying

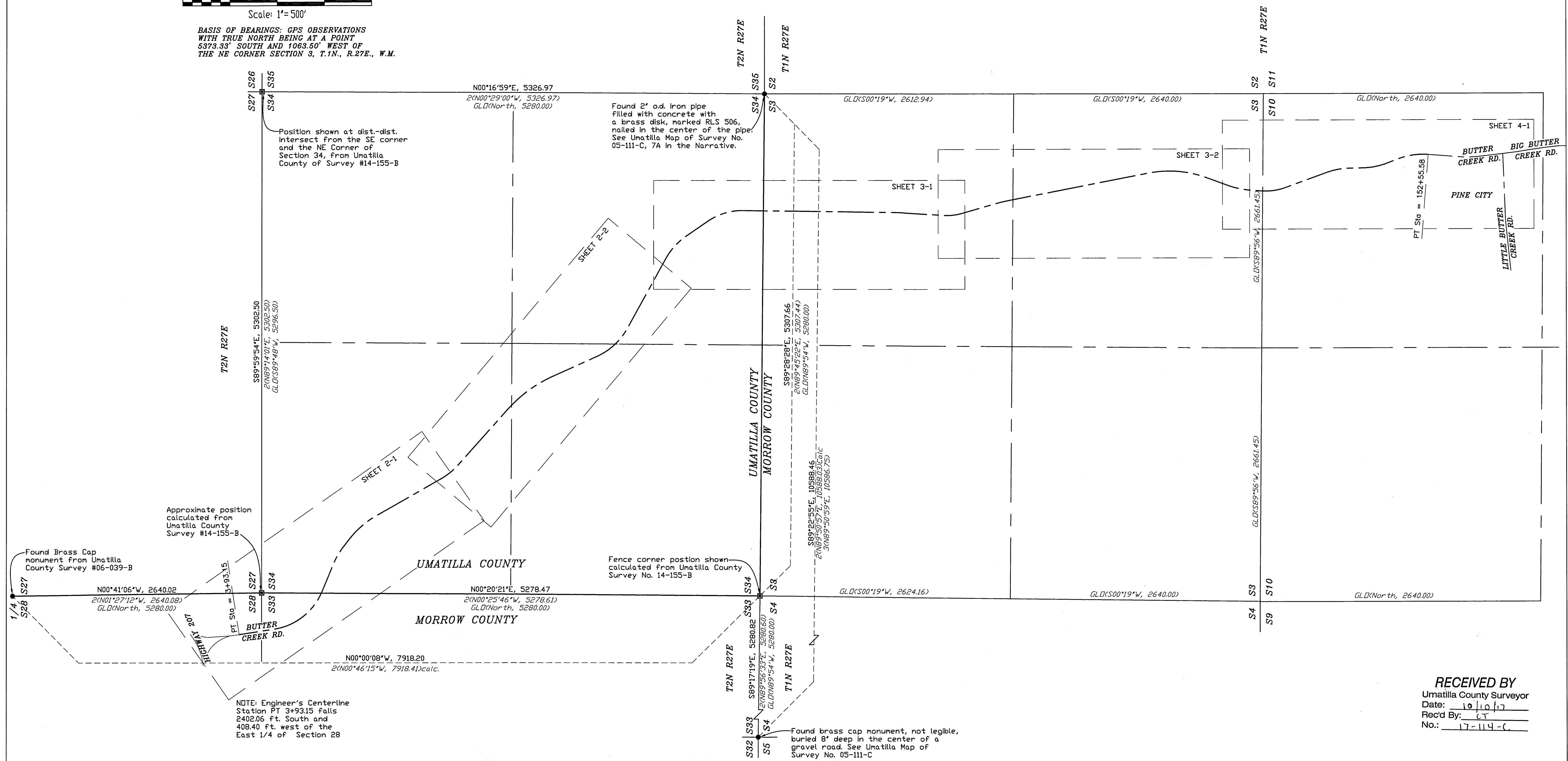


REGISTERED PROFESSIONAL LAND SURVEYOR
 OREGON
 JULY 13, 1999
 KENNETH H. DELANO JR.
 49865
 RENEWS: 1/1/2018

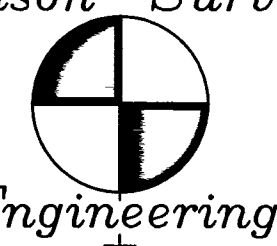
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 MT. VERNON, OR 97865
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 FAX (541)932-4430
 EMAIL dfse@oretelco.net



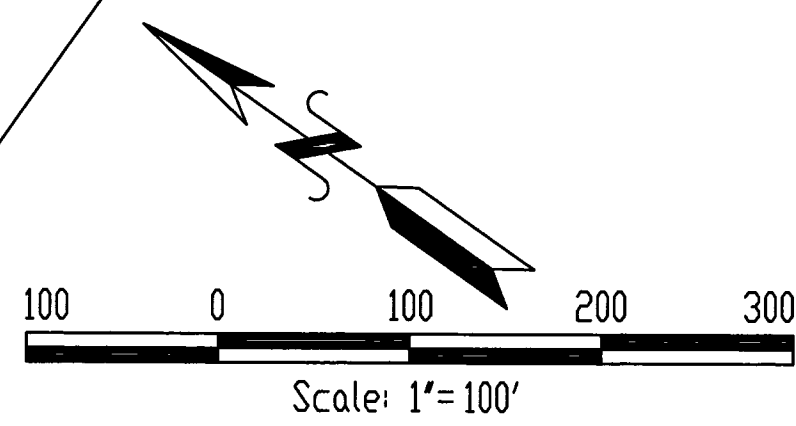
BASIS OF BEARINGS: GPS OBSERVATIONS WITH TRUE NORTH BEING AT A POINT 5373.33' SOUTH AND 1063.50' WEST OF THE NE CORNER SECTION 3, T.1N., R.27E., W.M.



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Sheet 2 of 4

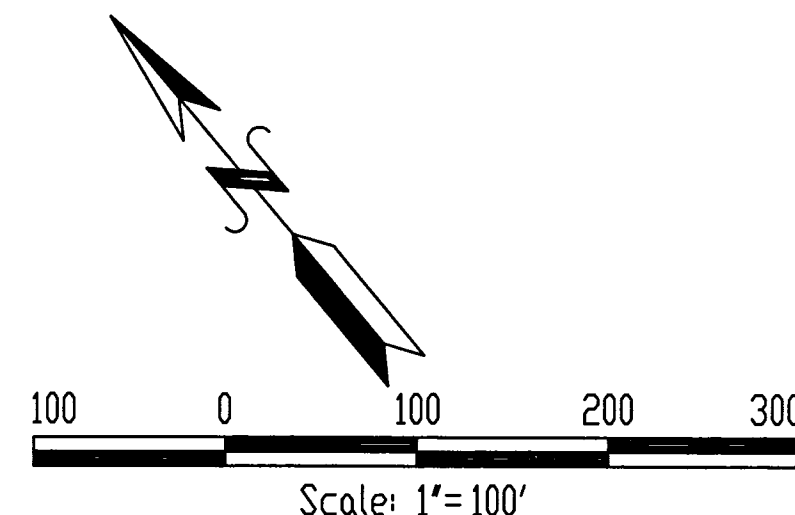
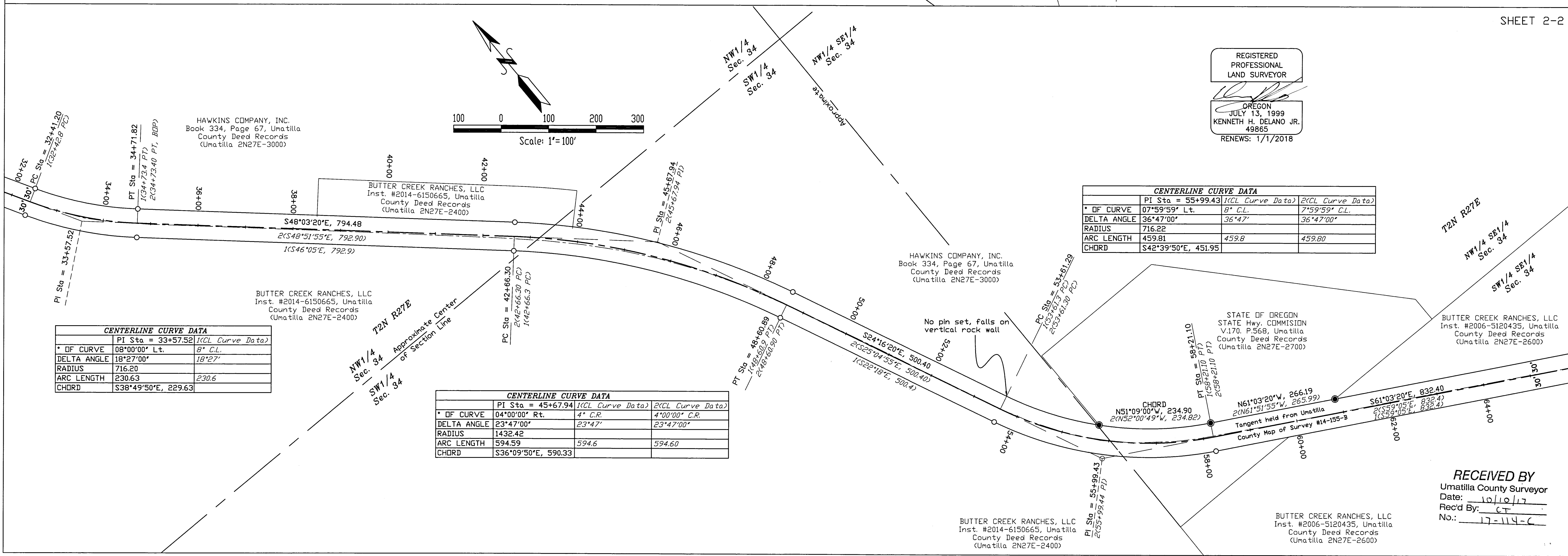
CENTERLINE CURVE DATA		
PI Sta = 2+92.96	[KCL Curve Data]	
• OF CURVE	03°00'00" Lt.	3° C.L.
DELTA ANGLE	06°01'00"	6°01'
RADIUS	1909.86	
ARC LENGTH	200.56	200.8
CHORD	S05°49'50"E, 200.46	

CENTERLINE CURVE DATA		
PI Sta = 11+36.98	[KCL Curve Data]	
• OF CURVE	08°45'00" Lt.	9° C.L.
DELTA ANGLE	58°30'00"	58°30'
RADIUS	654.81	
ARC LENGTH	668.57	650.0
CHORD	S38°05'20"E, 639.91	

CENTERLINE CURVE DATA		
PI Sta = 18+64.15	[KCL Curve Data]	
• OF CURVE	07°00'00" Rt.	8° C.R.
DELTA ANGLE	15°11'00"	15°11'
RADIUS	818.51	
ARC LENGTH	216.90	188.7
CHORD	S59°44'50"E, 216.27	

CENTERLINE CURVE DATA		
PI Sta = 22+64.61	[KCL Curve Data]	
• OF CURVE	05°45'00" Rt.	8° C.R.
DELTA ANGLE	22°33'00"	22°33'
RADIUS	996.45	
ARC LENGTH	392.17	281.9
CHORD	S40°52'50"E, 389.65	

- LEGEND**
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 - SET 5/8"x30" REBAR PIN WITH A 2" DIA. ALUMINUM CAP STAMPED WITH THE CENTERLINE OFFSET, ENGINEERS STATION, 2015, PLS 49865. SET POST WITH PADDLE MARKED "MCROW", UNLESS OTHERWISE NOTED.
 - RIGHT OF WAY CENTERLINE
 - - - CENTERLINE TANGENTS
 - - - TRAVELED ROADWAY CENTERLINE



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RENEWS: 1/1/2018

CENTERLINE CURVE DATA		
PI Sta = 33+57.52	[KCL Curve Data]	
• OF CURVE	08°00'00" Lt.	8° C.L.
DELTA ANGLE	18°27'00"	18°27'
RADIUS	716.20	
ARC LENGTH	230.63	230.6
CHORD	S38°49'50"E, 229.63	

CENTERLINE CURVE DATA		
PI Sta = 45+67.94	[KCL Curve Data]	
• OF CURVE	04°00'00" Rt.	4° C.R.
DELTA ANGLE	23°47'00"	23°47'
RADIUS	1432.42	23°47'00"
ARC LENGTH	594.59	594.6
CHORD	S36°09'50"E, 590.33	

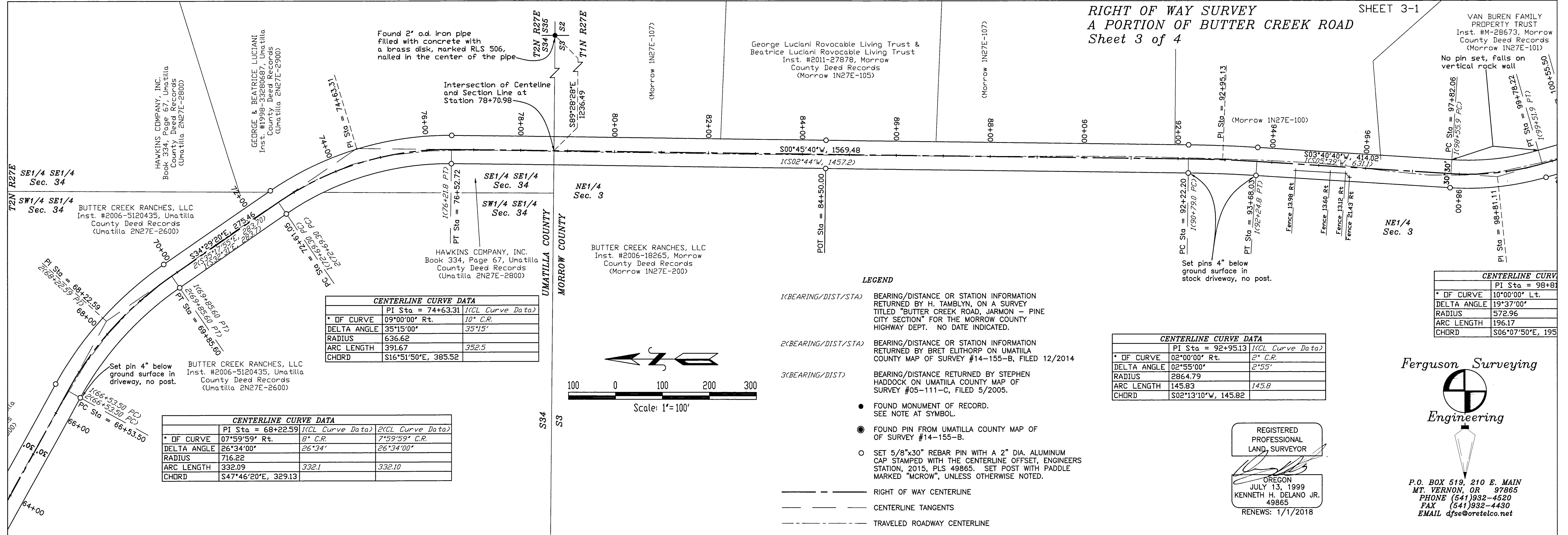
CENTERLINE CURVE DATA		
PI Sta = 55+99.43	[KCL Curve Data]	
• OF CURVE	07°59'59" Lt.	8° C.L.
DELTA ANGLE	36°47'00"	36°47'
RADIUS	716.22	7°59'59" C.L.
ARC LENGTH	459.81	459.8
CHORD	S42°39'50"E, 451.95	459.80

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Sheet 3 of 4

SHEET 3-1

VAN BUREN FAMILY PROPERTY TRUST
Inst. #M-28673, Morrow County Deed Records (Morrow IN27E-101)

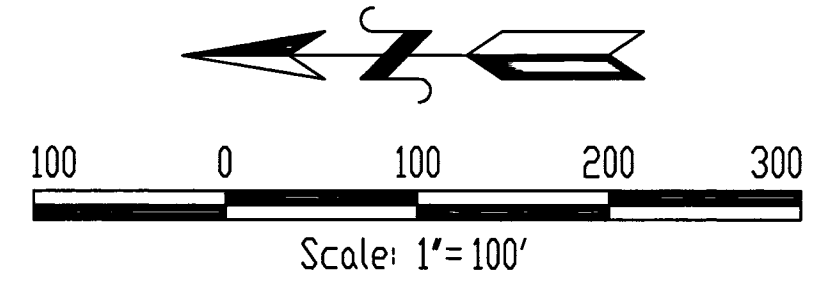


CENTERLINE CURVE DATA		
PI Sta = 74+63.31 (ICL Curve Data)		
* OF CURVE	09°00'00" Rt.	10° C.R.
DELTA ANGLE	35°15'00"	35°15'
RADIUS	636.62	
ARC LENGTH	391.67	352.5
CHORD	S16°51'50"E, 385.52	

CENTERLINE CURVE DATA		
PI Sta = 68+22.59 (ICL Curve Data)		
* OF CURVE	07°59'59" Rt.	8° C.R.
DELTA ANGLE	26°34'00"	26°34'
RADIUS	716.22	
ARC LENGTH	332.09	332.1
CHORD	S47°46'20"E, 329.13	

CENTERLINE CURVE DATA		
PI Sta = 92+95.13 (ICL Curve Data)		
* OF CURVE	02°00'00" Rt.	2° C.R.
DELTA ANGLE	02°55'00"	2°55'
RADIUS	2864.79	
ARC LENGTH	145.83	145.8
CHORD	S02°13'10"W, 145.82	

CENTERLINE CURVE DATA	
PI Sta = 98+81.11	
* OF CURVE	10°00'00" Lt.
DELTA ANGLE	19°37'00"
RADIUS	572.96
ARC LENGTH	196.17
CHORD	S06°07'50"E, 195.21



LEGEND

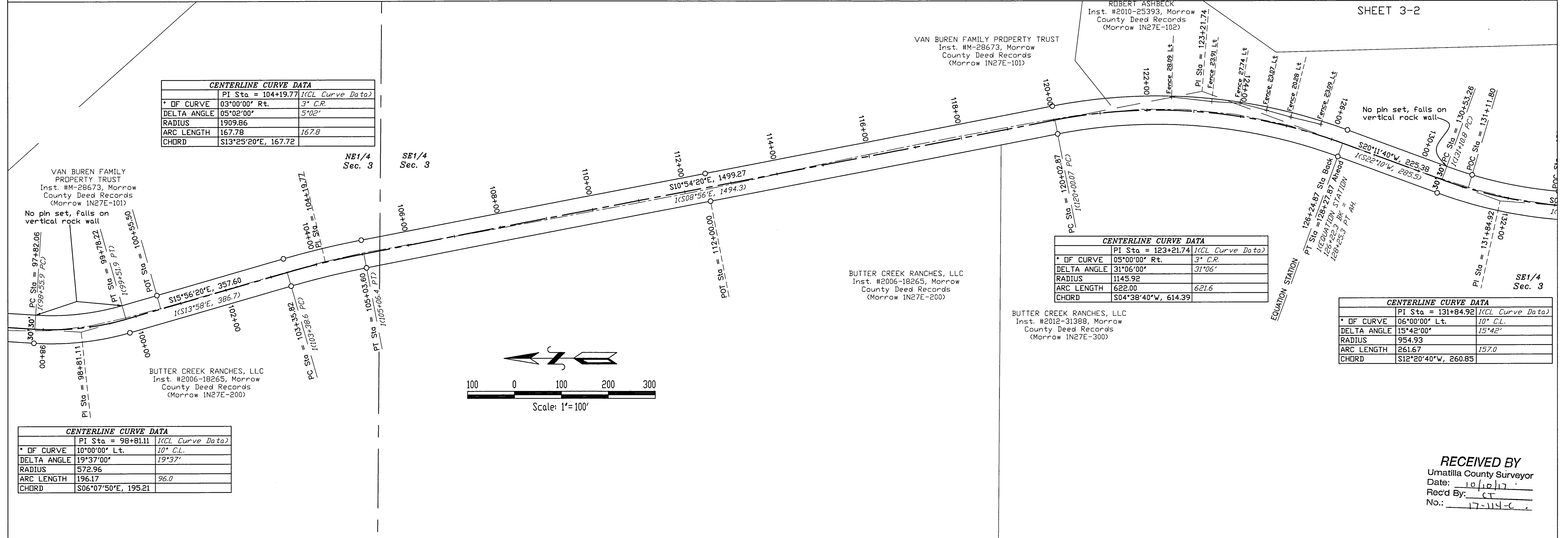
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Ferguson Surveying
Engineering

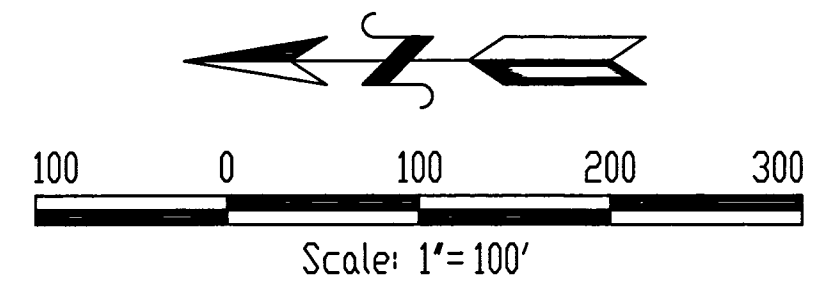
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CENTERLINE CURVE DATA		
PI Sta = 104+19.77 (ICL Curve Data)		
* OF CURVE	03°00'00" Rt.	3° C.R.
DELTA ANGLE	05°02'00"	5°02'
RADIUS	1909.86	
ARC LENGTH	167.78	167.8
CHORD	S13°25'20"E, 167.72	

CENTERLINE CURVE DATA		
PI Sta = 123+21.74 (ICL Curve Data)		
* OF CURVE	05°00'00" Rt.	3° C.R.
DELTA ANGLE	31°06'00"	31°06'
RADIUS	1145.92	
ARC LENGTH	622.00	621.6
CHORD	S04°38'40"W, 614.39	

CENTERLINE CURVE DATA		
PI Sta = 131+84.92 (ICL Curve Data)		
* OF CURVE	06°00'00" Lt.	10° C.L.
DELTA ANGLE	15°42'00"	15°42'
RADIUS	954.93	
ARC LENGTH	261.67	157.0
CHORD	S12°20'40"W, 260.85	

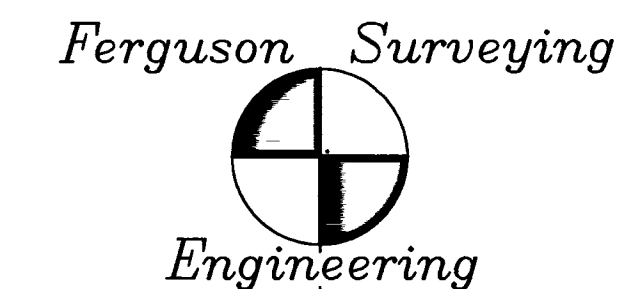


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PI Sta = 98+81.11 (ICL Curve Data)		
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DELTA ANGLE	19°37'00"	19°37'
RADIUS	572.96	
ARC LENGTH	196.17	96.0
CHORD	S06°07'50"E, 195.21	

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CENTERLINE CURVE DATA		
* OF CURVE	PI Sta = 142+74.68	(KCL Curve Data)
DELTA ANGLE	08°00'00" Rt.	10° C.R.
RADIUS	716.20	18°30'
ARC LENGTH	231.25	185.0
CHORD	S10°40'20"E, 230.25	

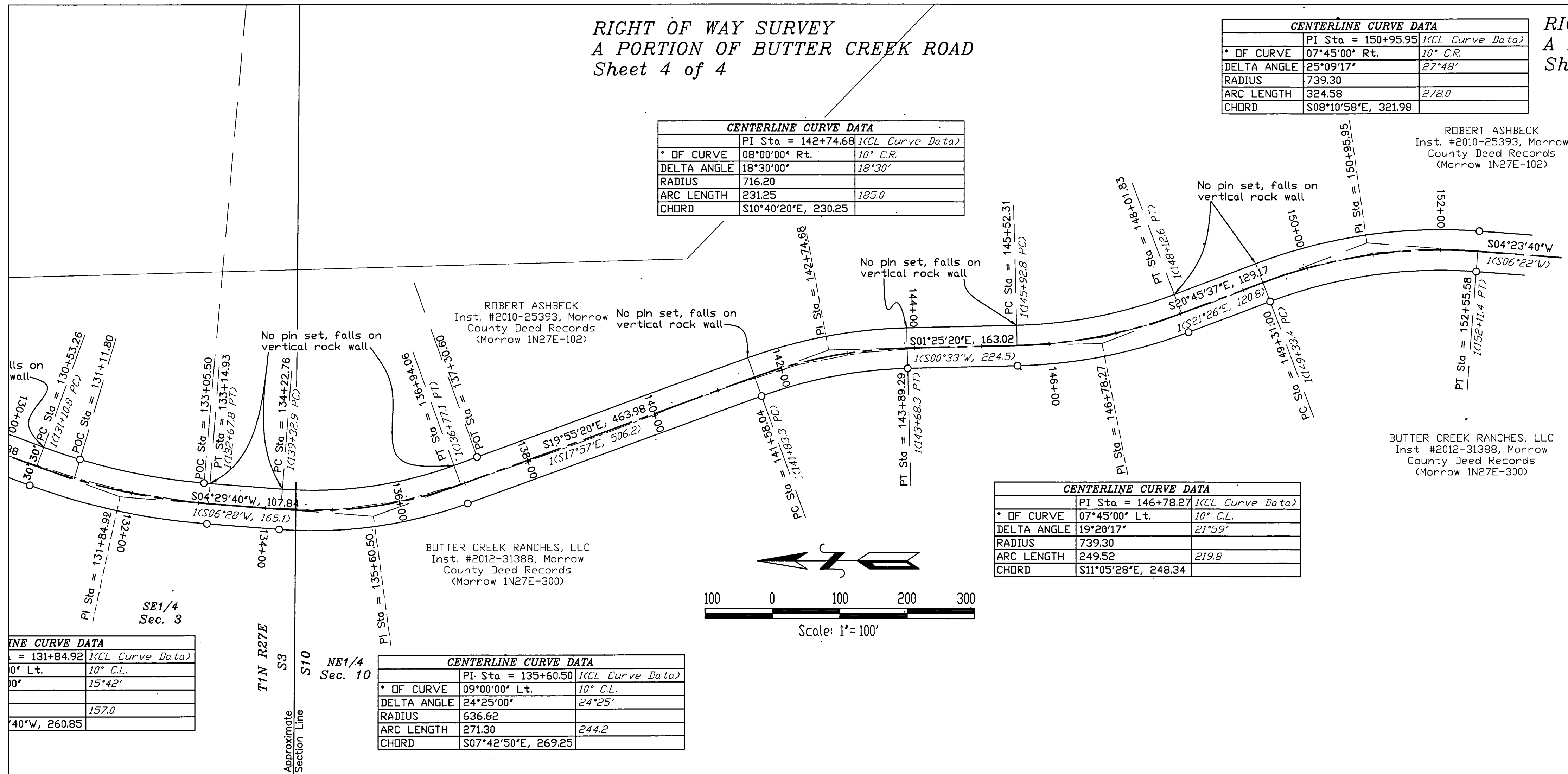
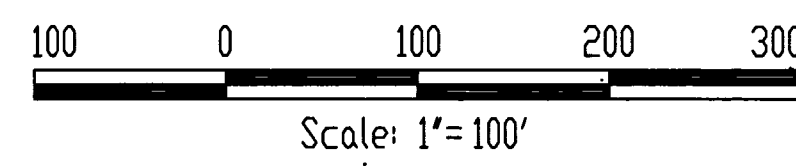
CENTERLINE CURVE DATA		
* OF CURVE	PI Sta = 150+95.95	(KCL Curve Data)
DELTA ANGLE	07°45'00" Rt.	10° C.R.
RADIUS	739.30	27°48'
ARC LENGTH	324.58	278.0
CHORD	S08°10'58"E, 321.98	

CENTERLINE CURVE DATA		
* OF CURVE	PI Sta = 146+78.27	(KCL Curve Data)
DELTA ANGLE	07°45'00" Lt.	10° C.L.
RADIUS	739.30	21°59'
ARC LENGTH	249.52	219.8
CHORD	S11°05'28"E, 248.34	

CENTERLINE CURVE DATA		
* OF CURVE	PI Sta = 135+60.50	(KCL Curve Data)
DELTA ANGLE	09°00'00" Lt.	10° C.L.
RADIUS	636.62	24°25'
ARC LENGTH	271.30	244.2
CHORD	S07°42'50"E, 269.25	

TANGENT CURVE DATA		
PC Sta = 131+84.92	(KCL Curve Data)	
10' Lt.	10° C.L.	
30'	15°42'	
40'W, 260.85		

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