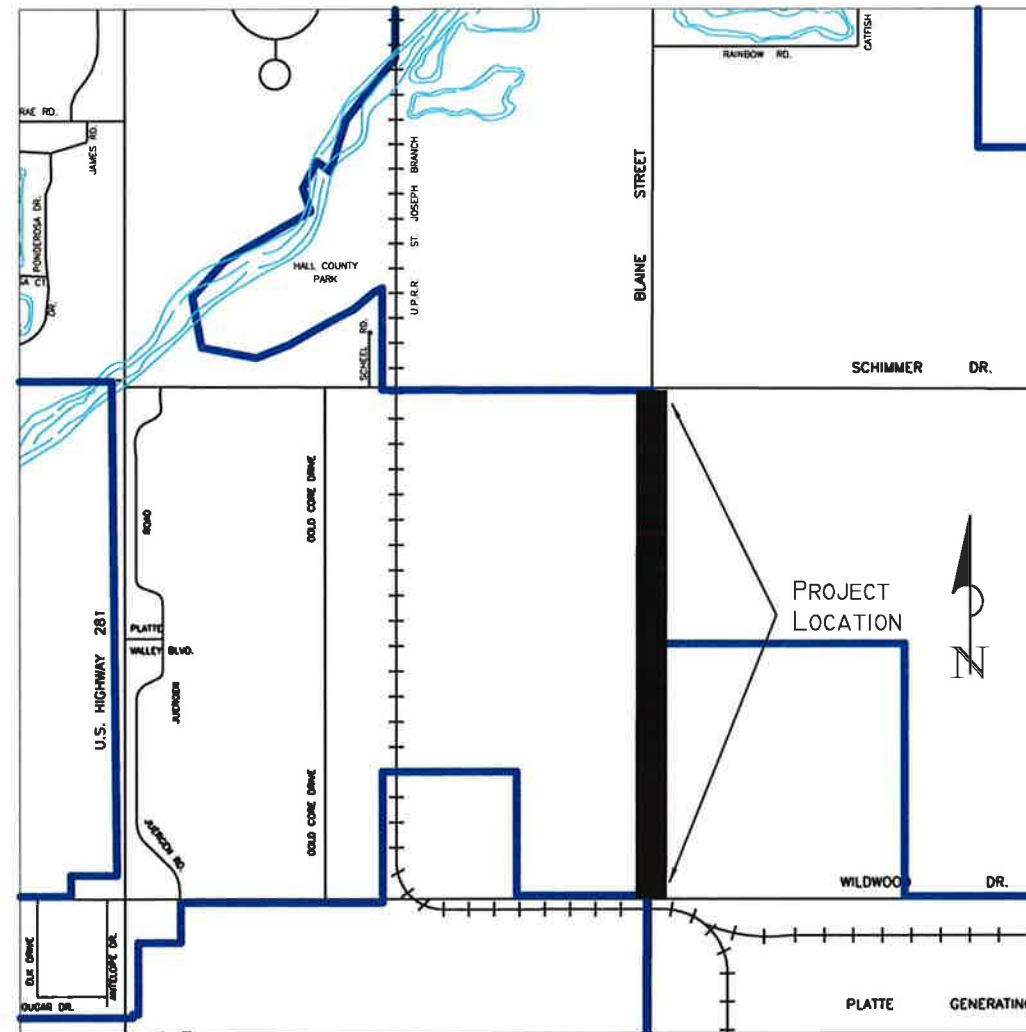


CITY OF GRAND ISLAND

PUBLIC WORKS DEPARTMENT BLAINE ST. - 2012-P-2

GENERAL NOTES

- THE LOCATION OF ALL UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF GRAND ISLAND UTILITY DEPARTMENT ANY WORK IN CONFLICT WITH EXISTING OVERHEAD OR UNDERGROUND ELECTRIC LINES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF GRAND ISLAND STANDARD PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS FOR SULFATE RESISTANT CONCRETE.
- CONTRACTOR SHALL PRESERVE ALL PROPERTY CORNER MONUMENTS OR RE-ESTABLISH THEM IF THEY ARE DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN AND PAY THE COST OF ALL REQUIRED PERMITS AND FEES.
- THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE AREA OF EXISTING MANHOLES, POWER POLES, AND ALL OTHER EXISTING UTILITIES, AND SHALL BE RESPONSIBLE FOR DAMAGES.
- THE CONTRACTOR SHALL AID IN THE COORDINATION OF ALL TESTING PROCEDURES REQUIRED.
- AT THE COMPLETION OF WORK AND BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING REQUESTING A FINAL WALK-THROUGH OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL MEASURES DURING ALL PHASES OF CONSTRUCTION AND SHALL SUBMIT TO THE UTILITIES DEPARTMENT AN EROSION CONTROL PLAN PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL COSTS AND COORDINATION. TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CITY OF GRAND ISLAND STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY PROPERTY OWNERS A MINIMUM OF SEVEN DAYS PRIOR TO ANY CONSTRUCTION.
- THE REMOVAL AND REPLACEMENT OF TREES, BUSHES, SCRUBS, LANDSCAPING, SPRINKLER SYSTEMS, ETC. SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLATION OF THE PAVEMENT AND DITCH.
- SAWCUTTING OF PAVEMENT IS SUBSIDIARY TO THE REMOVAL OF EXISTING PAVEMENT. CONCRETE PAVEMENT SHALL BE REMOVED AT EXISTING JOINTS IF POSSIBLE. CLEAN JOINTS SHALL BE PROVIDED PRIOR TO REPLACEMENT OF PAVEMENT. CONTRACTOR RESPONSIBLE FOR DISPOSAL OF REMOVED ITEMS. JOINTS FROM EXISTING TO PROPOSED PAVEMENTS ARE PROVIDED IN THE GRAND ISLAND CITY SPECIFICATIONS AND SHOULD BE FOLLOWED.
- FILL MATERIAL FOR THE ROADWAY CONSTRUCTION IS PROVIDED TO THE CONTRACTOR BY THE CITY. MATERIAL IS STOCKPILED NEAR CENTRAL COMMUNITY COLLEGE. HAULING OF MATERIAL SHALL BE COMPLETED BY CONTRACTOR AND IS INCLUDED IN THE EARTHWORK LINE ITEM.

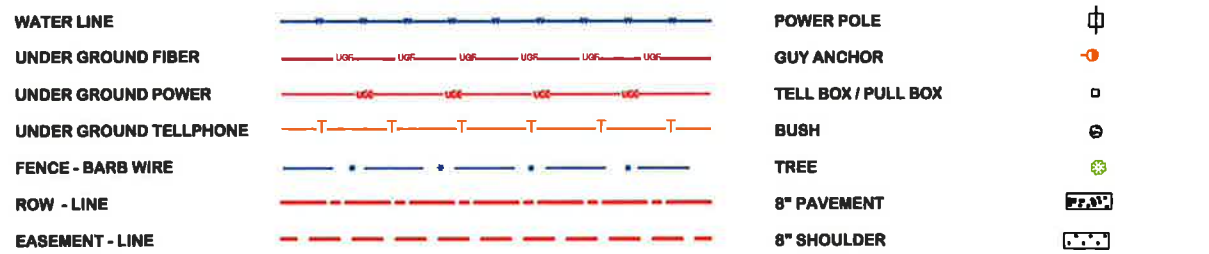


QUANTITY ESTIMATE			
NO.	ITEM	UNIT	QTY.
1	8" PORTLAND CEMENT CONCRETE DOWELED PAVEMENT	SY	16,440.0
2	24" REINFORCED CONCRETE PIPE	LF	32.0
3	24" REINFORCED CONCRETE PIPE - FLARED END SECTION	EA	4.0
4	30" REINFORCED CONCRETE PIPE - FLARED END SECTION	EA	2.0
5	GRAVEL SURFACING	TN	82.7
6	REMOVE ASPHALT PAVING	SY	361.9
7	REMOVE RCP	LS	1.0
8	UNIMPROVED AREA - SEEDING (Type 'B')	AC	3.0
9	HYDROMULCH	TN	6.0
10	OVER EXCAVATION	CY	500
11	TRAFFIC CONTROL	LS	1.0
12	EARTHWORK	CY	13000.0
13	ADJUST MANHOLE TO GRADE	EA	1.0

ALTERNATE BID #1			
NO.	ITEM	UNIT	QTY.
14	4" YELLOW PREFORMED PLASTIC PAVEMENT MARKING, TYP 4, GROOVED	LF	1,296.0
15	4" WHITE PREFORMED PLASTIC PAVEMENT MARKING, TYP 4, GROOVED	LF	10,360.0

SHEET INDEX

- SHEET 1 - COVER SHEET
- SHEET 2 - 12 - PLAN AND PROFILE
- SHEET 13 - VOLUME TABLE & TYPICAL SECTION
- SHEET 14 - 31 - CROSS SECTIONS
- NDOR CONCRETE PAVEMENT PLANS - STANDARD PLAN NO. 329-R9 1-4



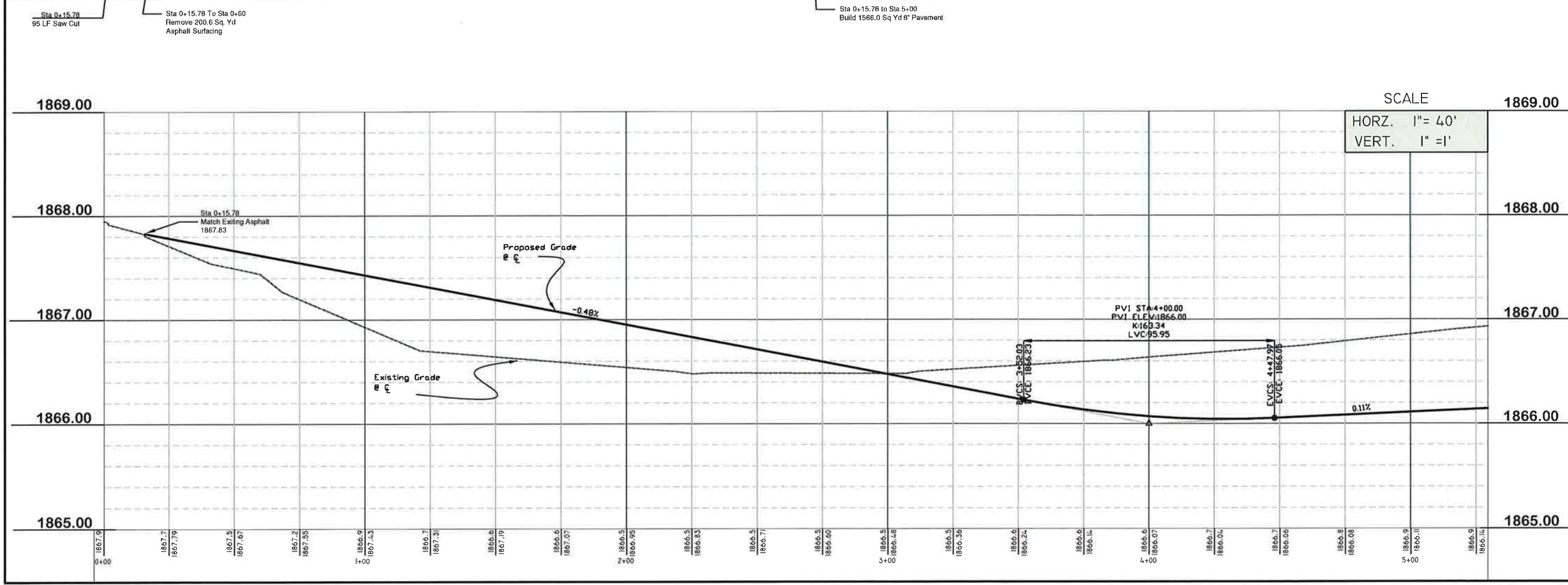
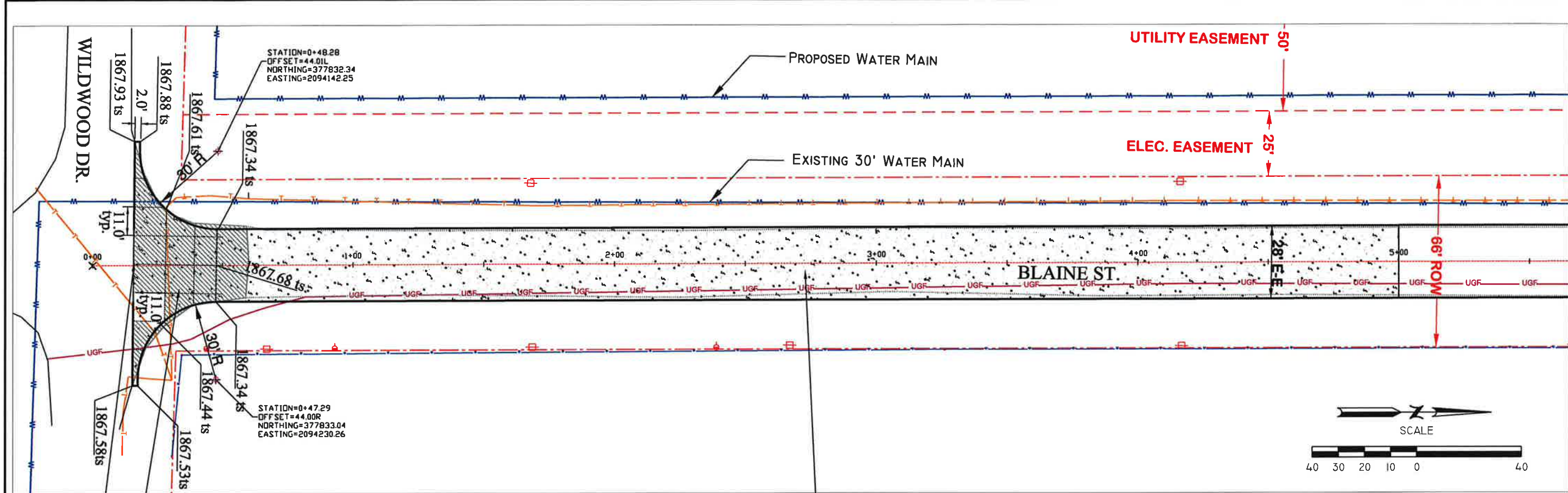
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REVISIONS	DATE	BY	DESCRIPTION
	08/16/12	MHL	REVISE CENTER LINE GRADE & QUANTITIES

COVER SHEET
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

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This document was originally approved and sealed on 02-11-2013 by KEITH J. KURZ a licensed professional engineer in the State of NEBRASKA, E-12954

DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	SURV. BY
08/16/12	MVL	REVISE CENTER LINE GRADE & QUANTITIES		07/06/2012	DR. BY:	MVL
					CHK. BY:	KK
					DATE:	08/13/12
					APPR. BY:	KK
					DATE:	02-11-2013

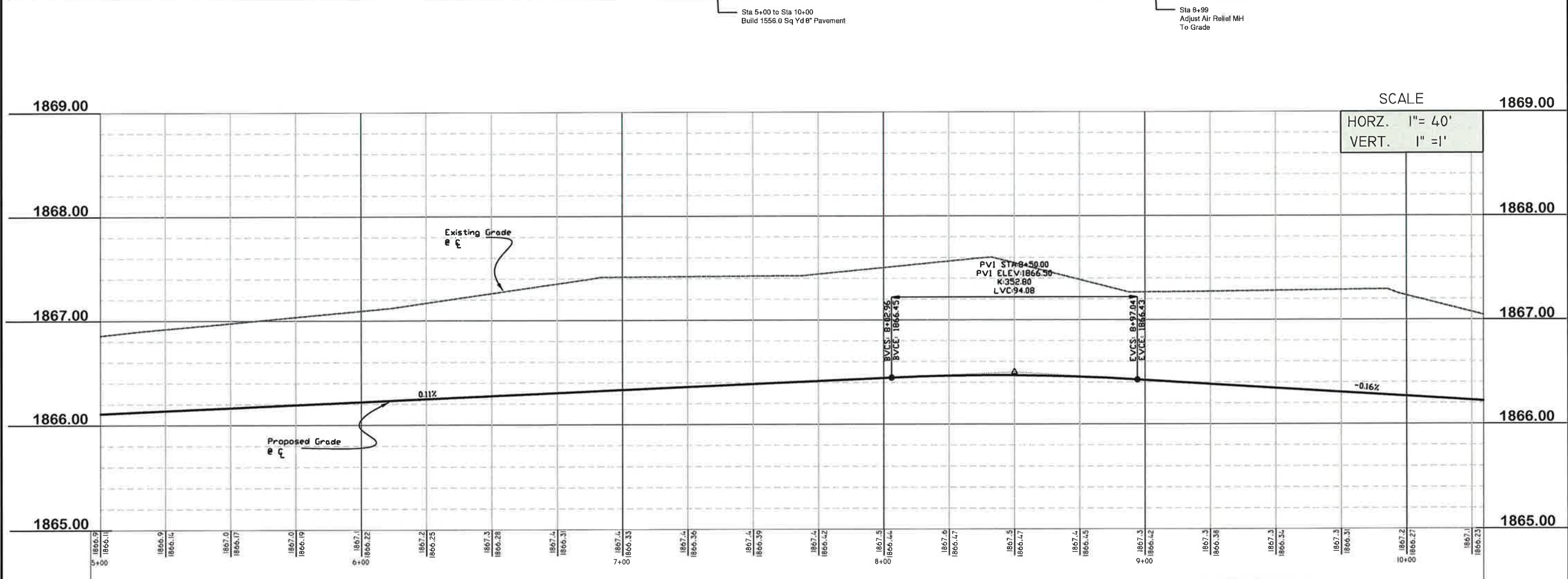
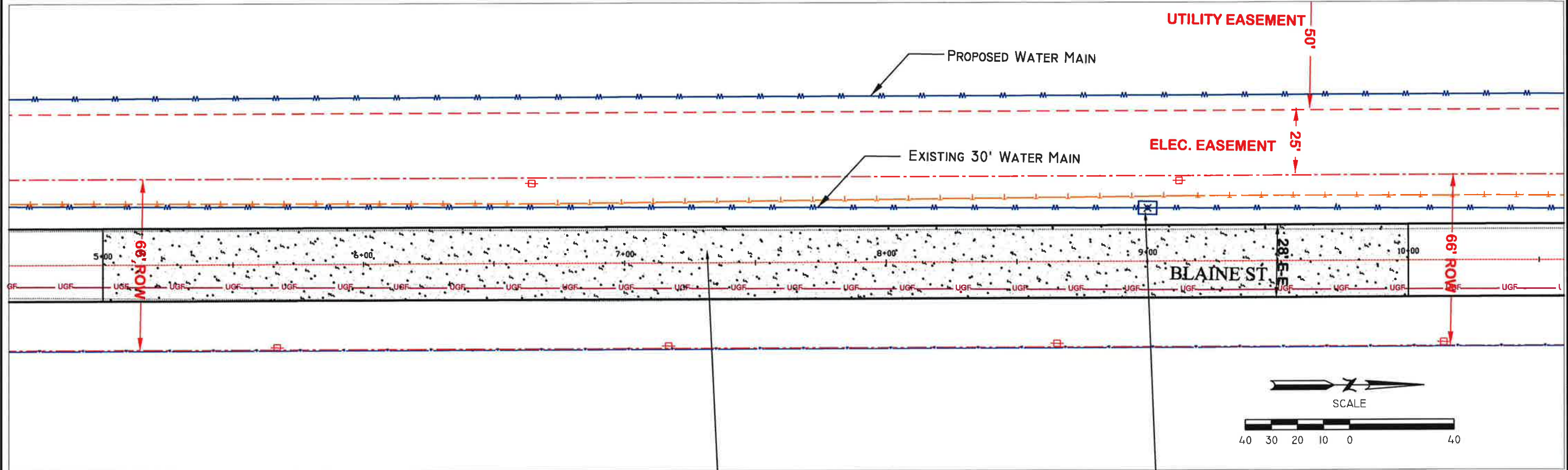
PLAN AND PROFILE

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine Base Dwg

2 / 31

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Sta 5+00 to Sta 10+00
Build 1556.0 Sq Yd 8" Pavement

Sta 8+99
Adjust Air Relief MH
To Grade

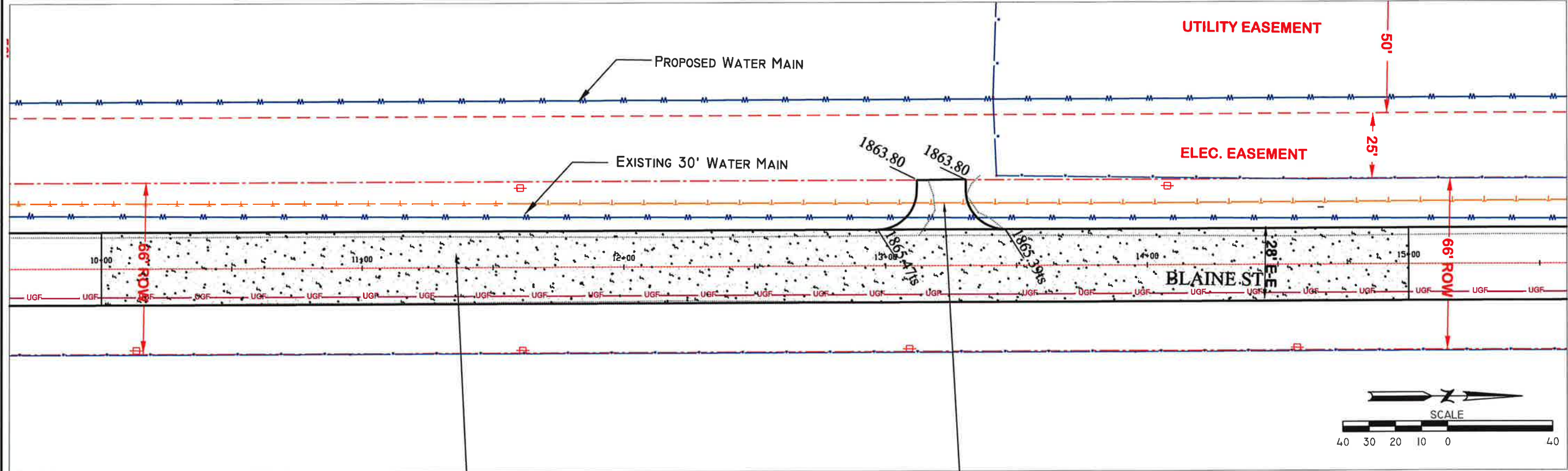
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
08/16/12	MWL	REVISIONS	07/06/2012	MWL	DR. BY: QUANTITIES

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

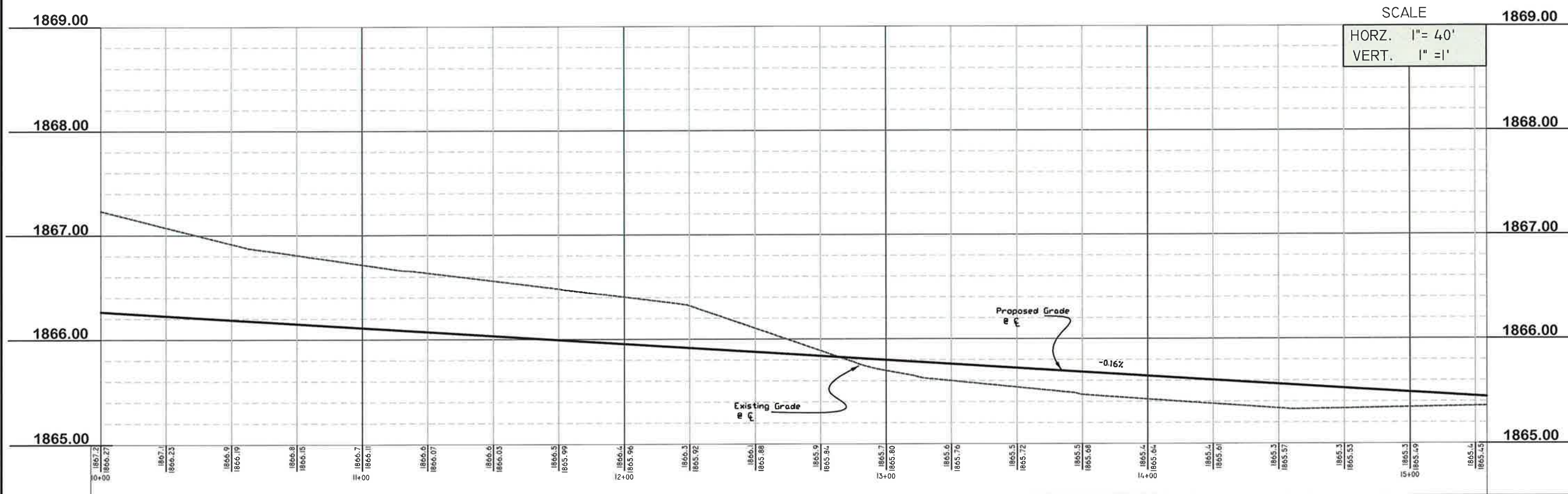
DRAWING NO.:
Blaine-Base Dwg
3

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Sta 10+00 to Sta 15+00
Build 1556.0 Sq Yd 8" Pavement

Sta 12+96 to Sta 13+45
Rebuild Field Entrance
With 10.3 TN Gravel Surface



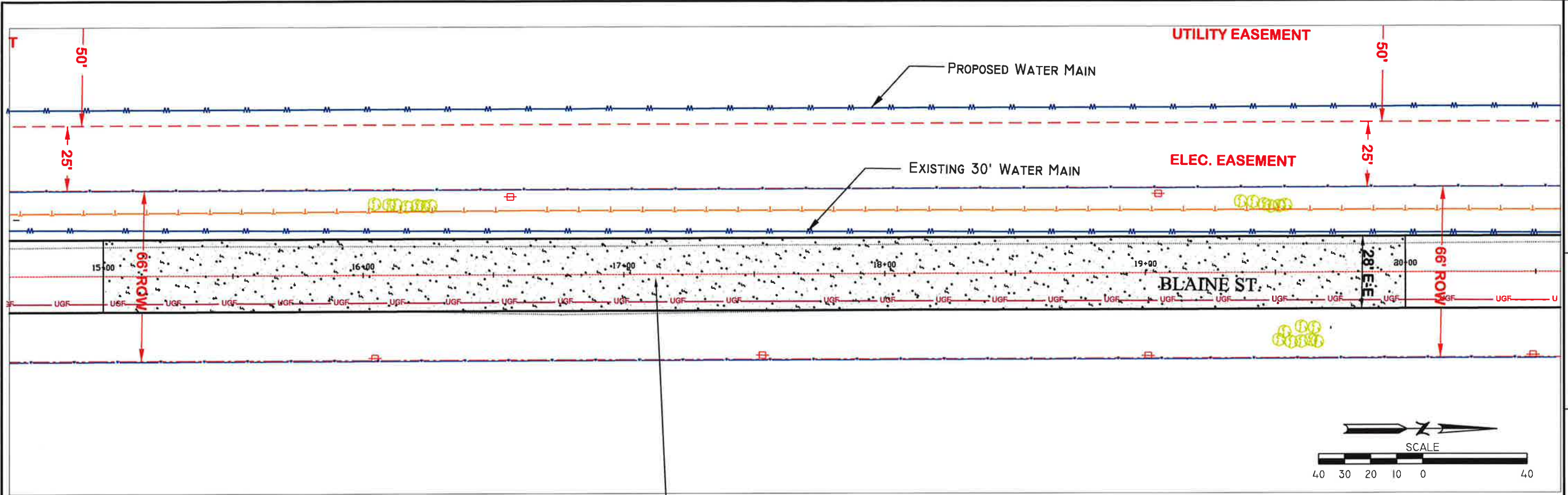
SCALE
HORZ. 1" = 40'
VERT. 1" = 1'

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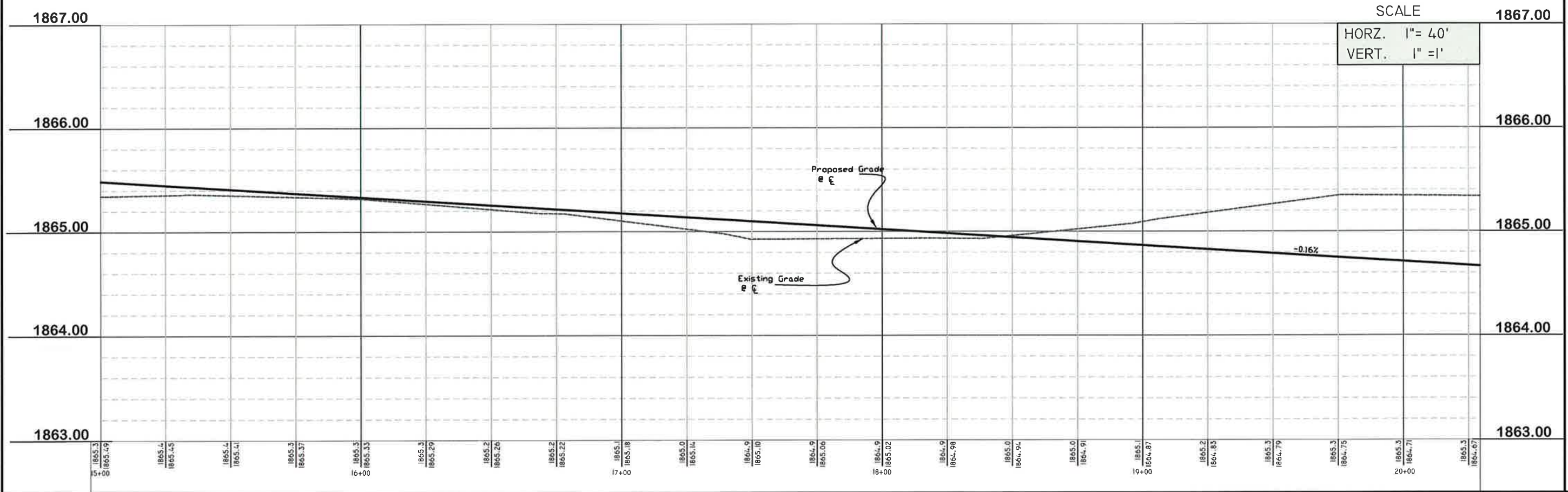
DATE	BY	REVISIONS
08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES
07/06/2012	DR. BY: MWL	
08/13/12	CHK. BY: RK	
08/13/12	DATE: RK	
02-11-2013	APPR. BY: RK	
02-11-2013	DATE: RK	

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

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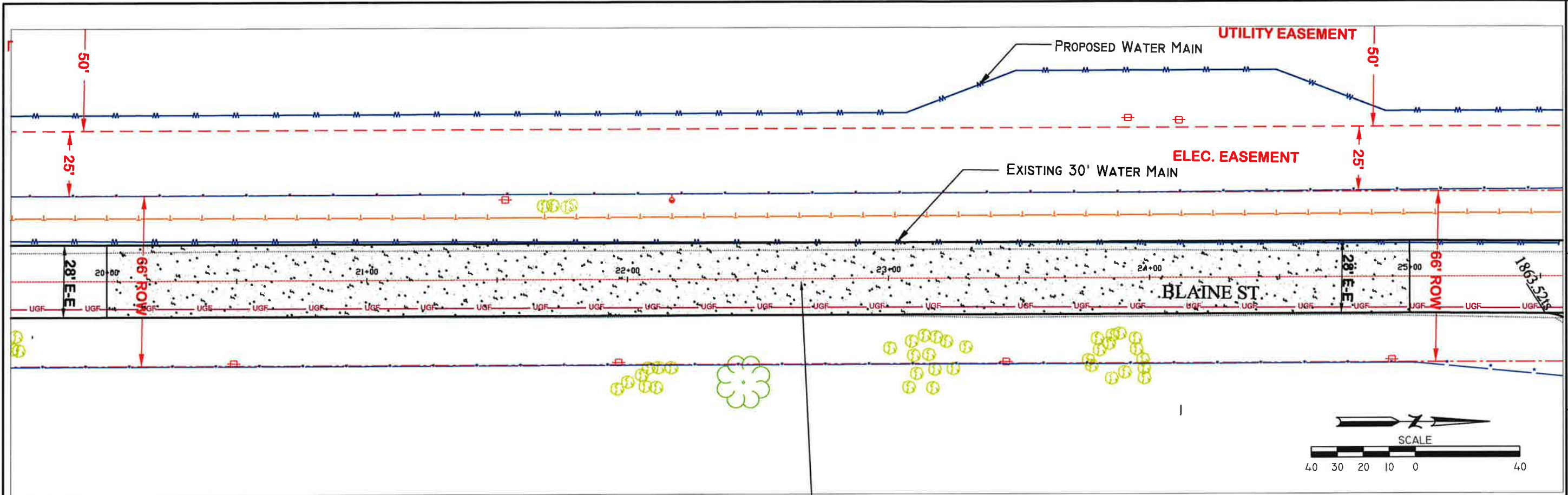
Sta 15+00 to Sta 20+00
Build 1556.0 Sq Yd 8" Pavement



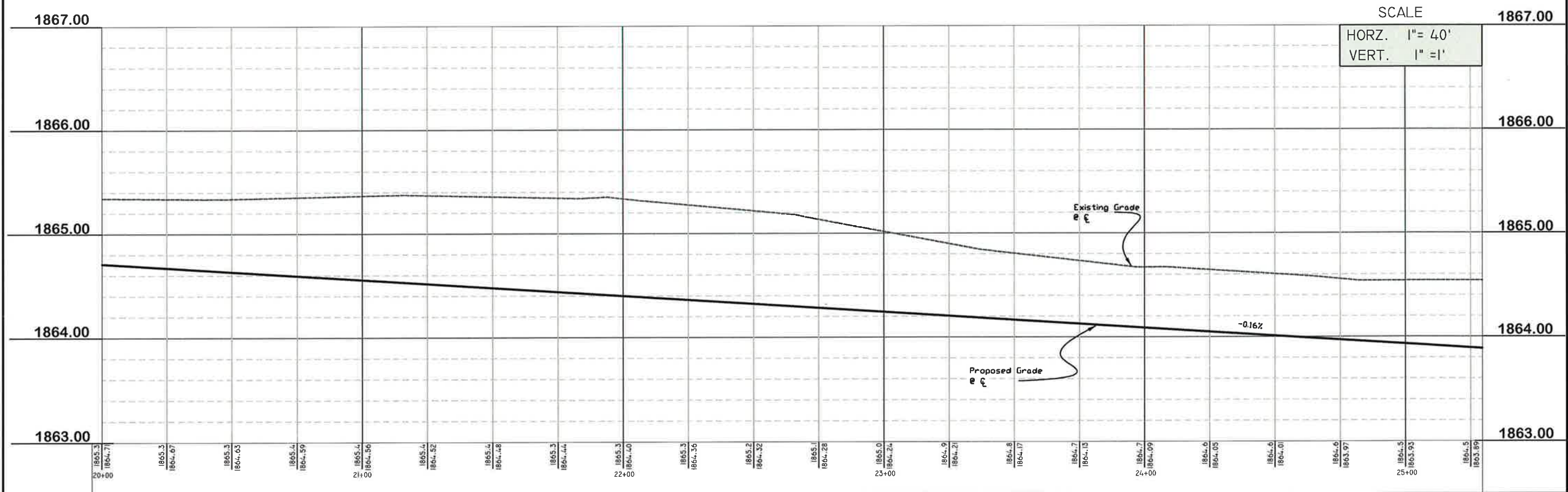
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DATE	BY	DESCRIPTION	QUANTITIES	DATE	BY	DATE	BY
08/16/12	MJL	REVISION		07/06/2012	MJL		

PLAN AND PROFILE
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



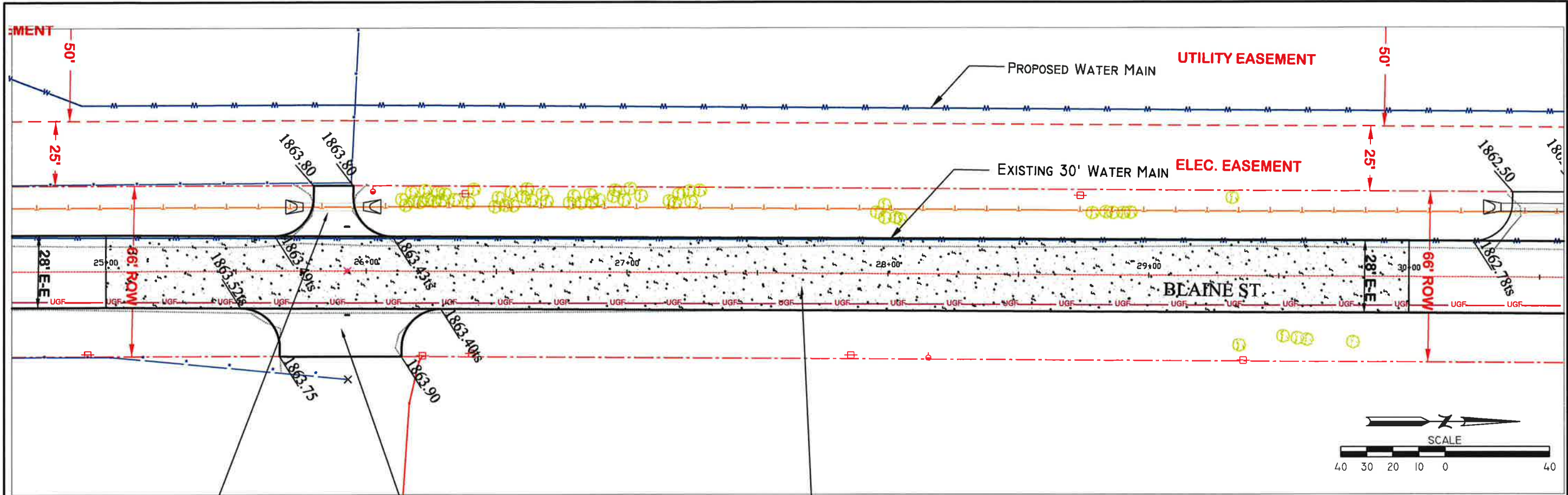
Sta 20+00 to Sta 25+00
Build 1556.0 Sq Yd 8" Pavement



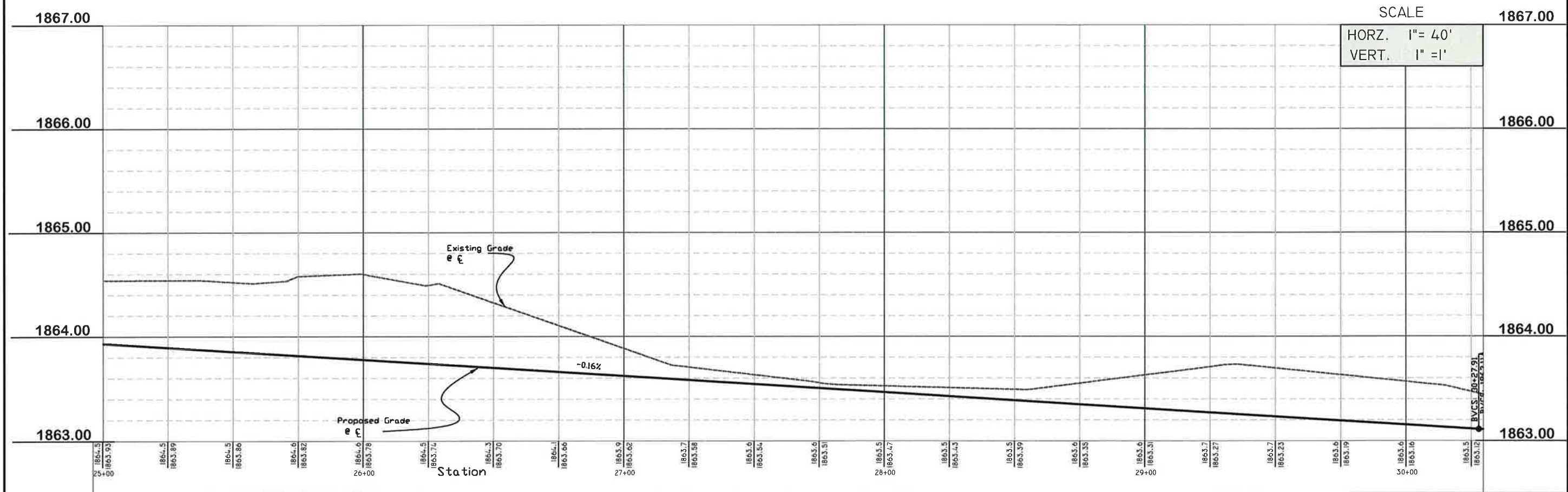
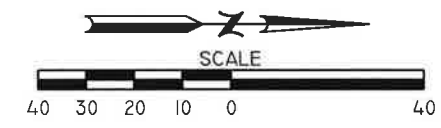
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REVISIONS		SURV. BY:	MWL
DATE	BY	DATE	DESCRIPTION
08/16/12	MWL	07/06/2012	REVISE CENTER LINE GRADE & QUANTITIES

PLAN AND PROFILE
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



- Sta 25+65 to Sta 26+10
Rebuild Field Entrance
With 13.0 TN Gravel Surface
Sta 25+76 to Sta 25+98
Clean and Flush
23 LF of 30" Concrete Pipe
And Place 2 New Flared End Sections
In Existing Ditch
- Sta 25+51 to Sta 26+28
Rebuild Field Entrance
With 29.5 TN Gravel Surface
- Sta 25+00 to Sta 30+00
Build 1556.0 Sq Yd 8" Pavement



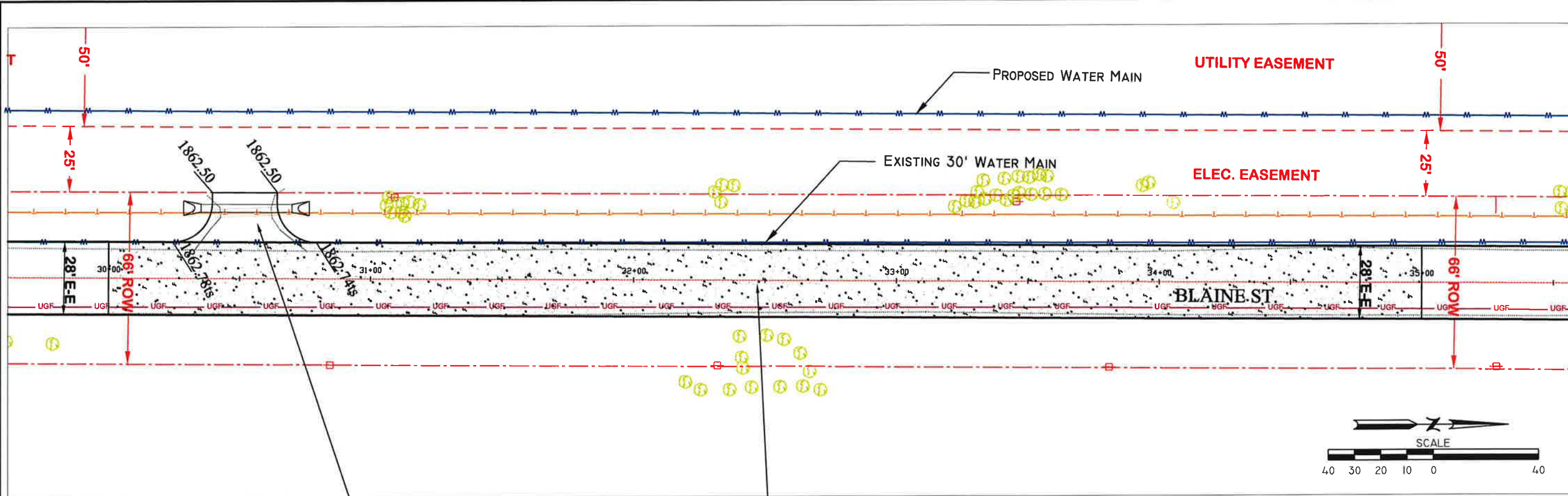
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REVISIONS	DATE	BY	DESCRIPTION
	08/16/12	MVL	REVISE CENTER LINE GRADE & QUANTITIES

SURV. BY:	MVL
DATE:	XX/XX/XX
DR. BY:	MVL
DATE:	07/06/2012
C.H.K. BY:	KK
DATE:	08/13/12
APPR. BY:	JK
DATE:	02-11-2013

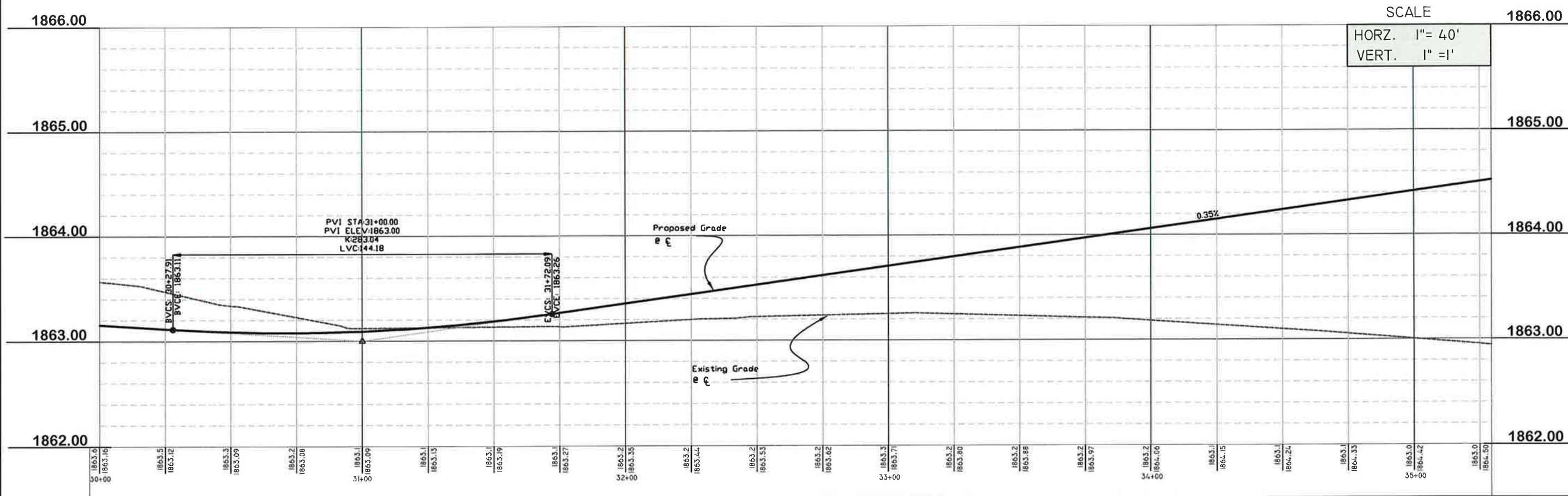
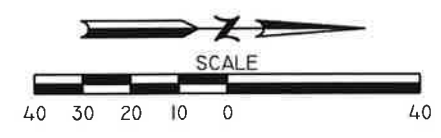
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Sta 30+28 to Sta 30+76
Remove And Rebuild Field Entrance
With 12.5 TN Gravel Surface
Sta 30+40 to Sta 30+64
Remove 24 LF of 30" Concrete Pipe
And Replace With 32 LF of 24" RCP
And 2 (two) Flared End Sections
Flow Line N&S = 1860.60

Sta 30+00 to Sta 25+00
Build 1556.0 Sq Yd 6" Pavement



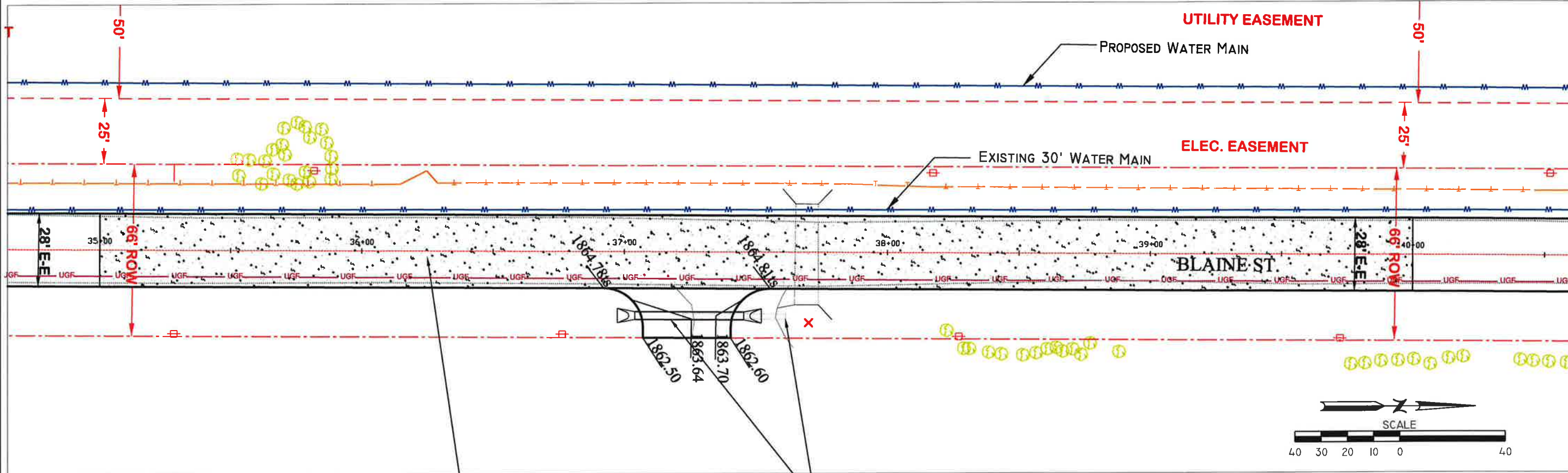
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REVISIONS	DATE	BY	DESCRIPTION
	08/16/12	MHL	REVISE CENTER LINE GRADE & QUANTITIES
	07/06/2012	MHL	

SURV. BY:	DATE:
MHL	XX/XX/XX

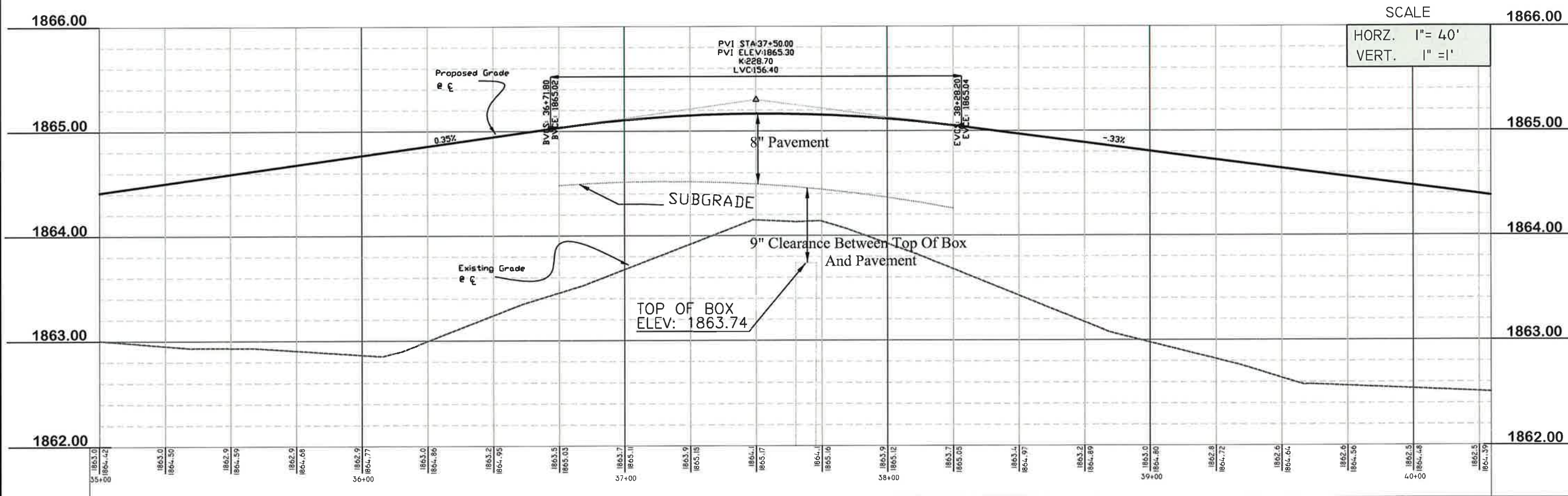
CHK. BY:	DATE:
KK	07/06/2012

APPR. BY:	DATE:
KK	08/13/12



Sta 35+00 to Sta 40+00
Build 1556.0 Sq Yd 8" Pavement

Sta 37+01 to Sta 37+86
Remove Field Entrance
Sta. 36+93 to Sta 37+56 Rebuild Field Entrance
With 17.0 TN Gravel Surface
Sta 37+61 Remove North Two (2) Sections of 24" RCP
Sta 37+04 Rouse One (1) section of 24" RCP
Place One (1) Flared End Section at each End Of Existing RCP



SCALE
HORZ. 1" = 40'
VERT. 1" = 1'

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REVISIONS	DATE	BY	DESCRIPTION
	08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES
		MWL	
		MWL	

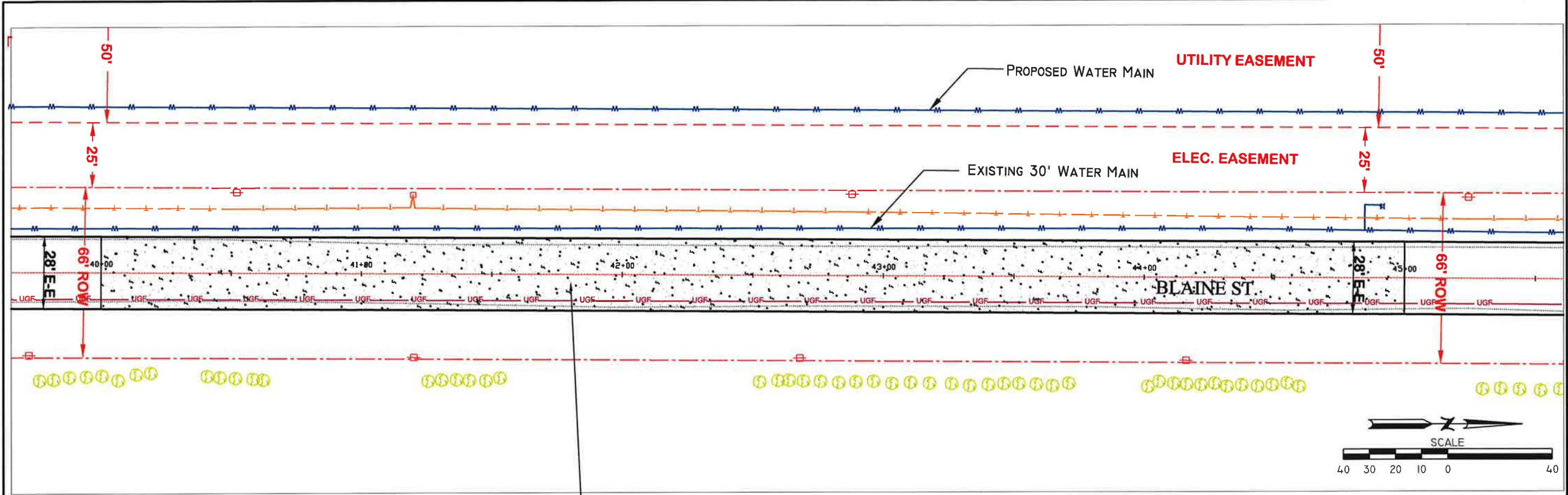
DATE	BY	CHK. BY	DATE	APP. BY	DATE

PLAN AND PROFILE

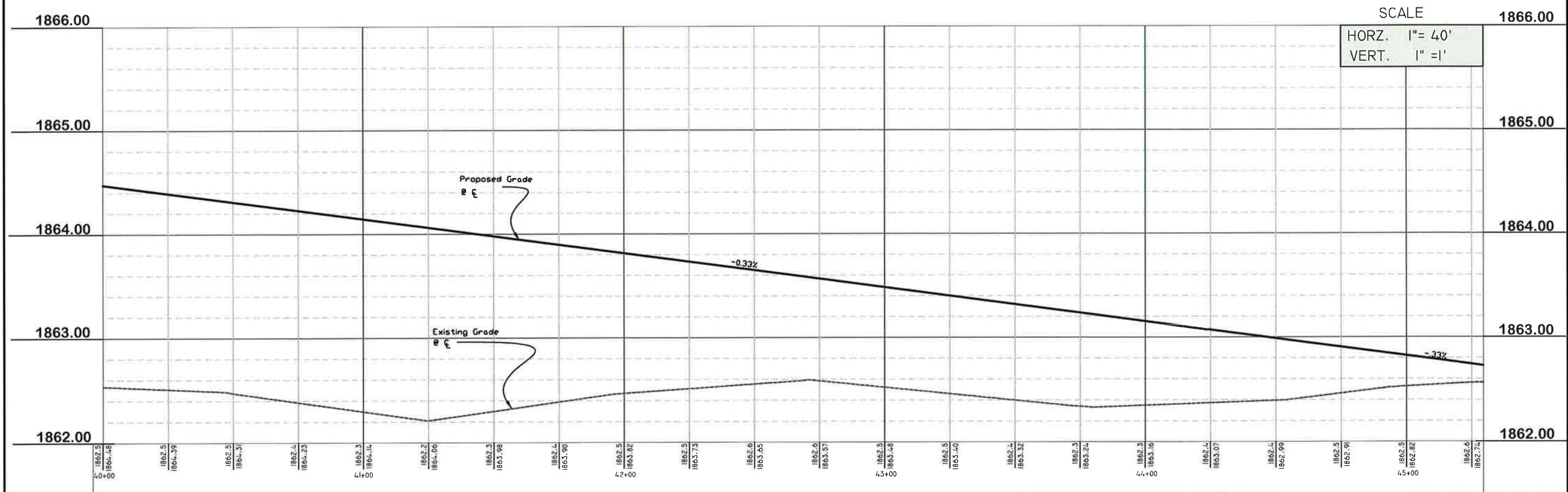
BLAINE ST PAVING -WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg
9

31



Sta 40+00 to Sta 45+00
Build 1556.0 Sq Yd 8" Pavement



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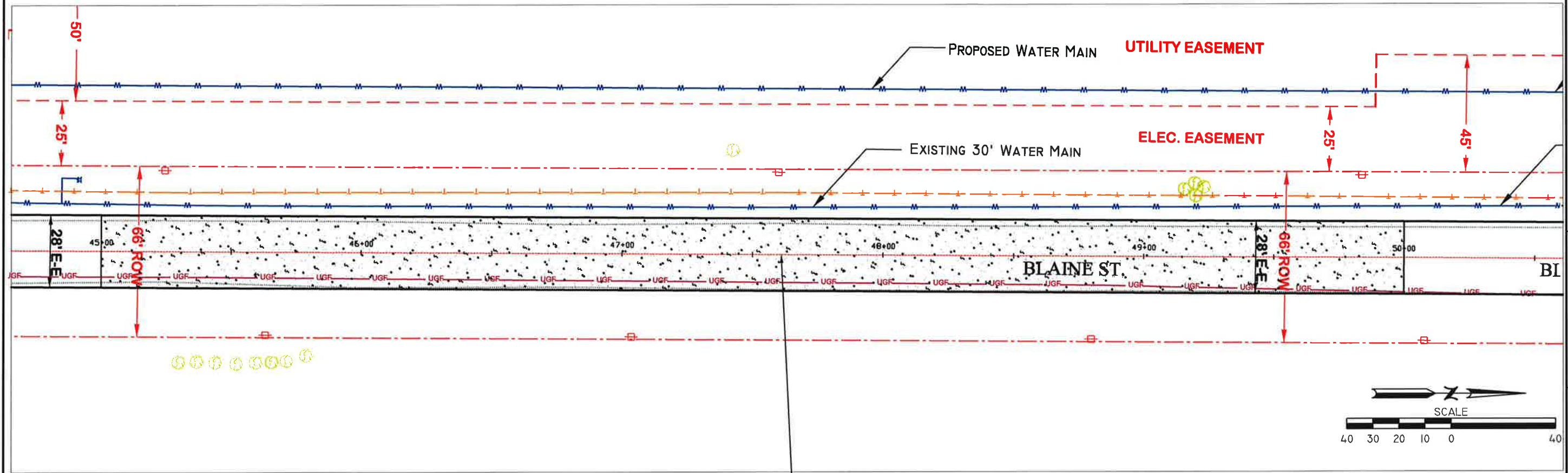
REVISIONS	DATE	BY	DESCRIPTION
	08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES
	07/06/2012	MWL	

SURV. BY:	MWL
DATE:	XX/XX/XX
DR. BY:	MWL
DATE:	07/06/2012
CHK. BY:	RK
DATE:	08/13/12
APPR. BY:	RK
DATE:	02-11-2013

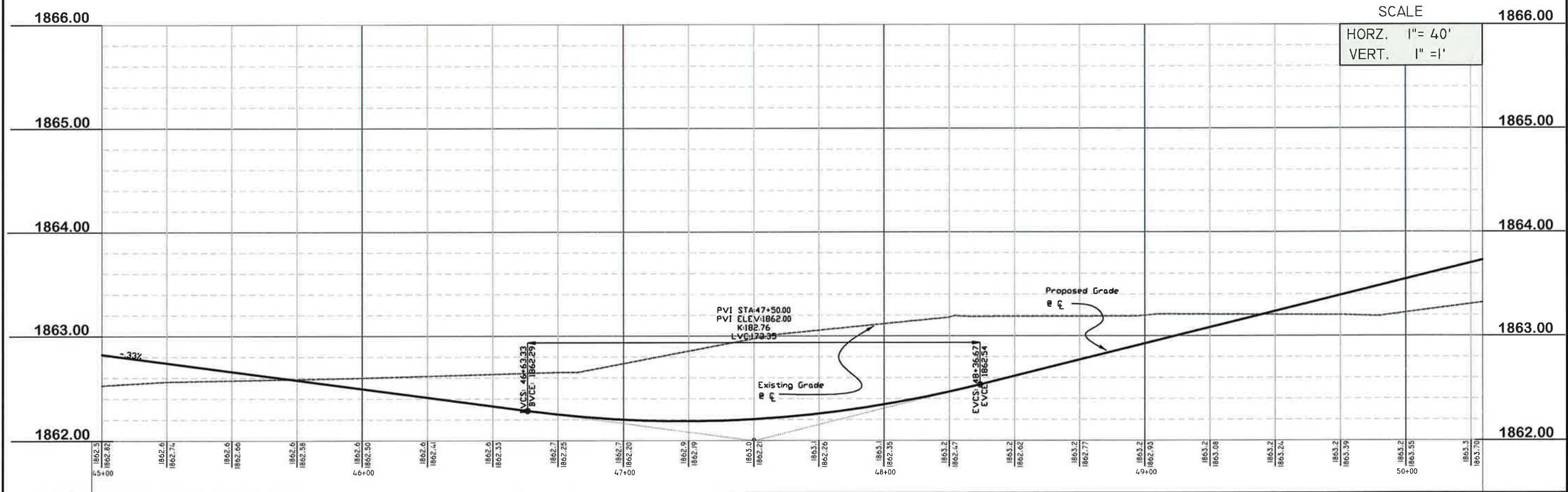
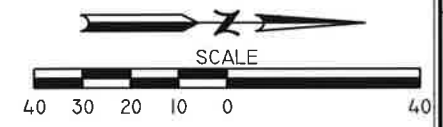
PLAN AND PROFILE
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg
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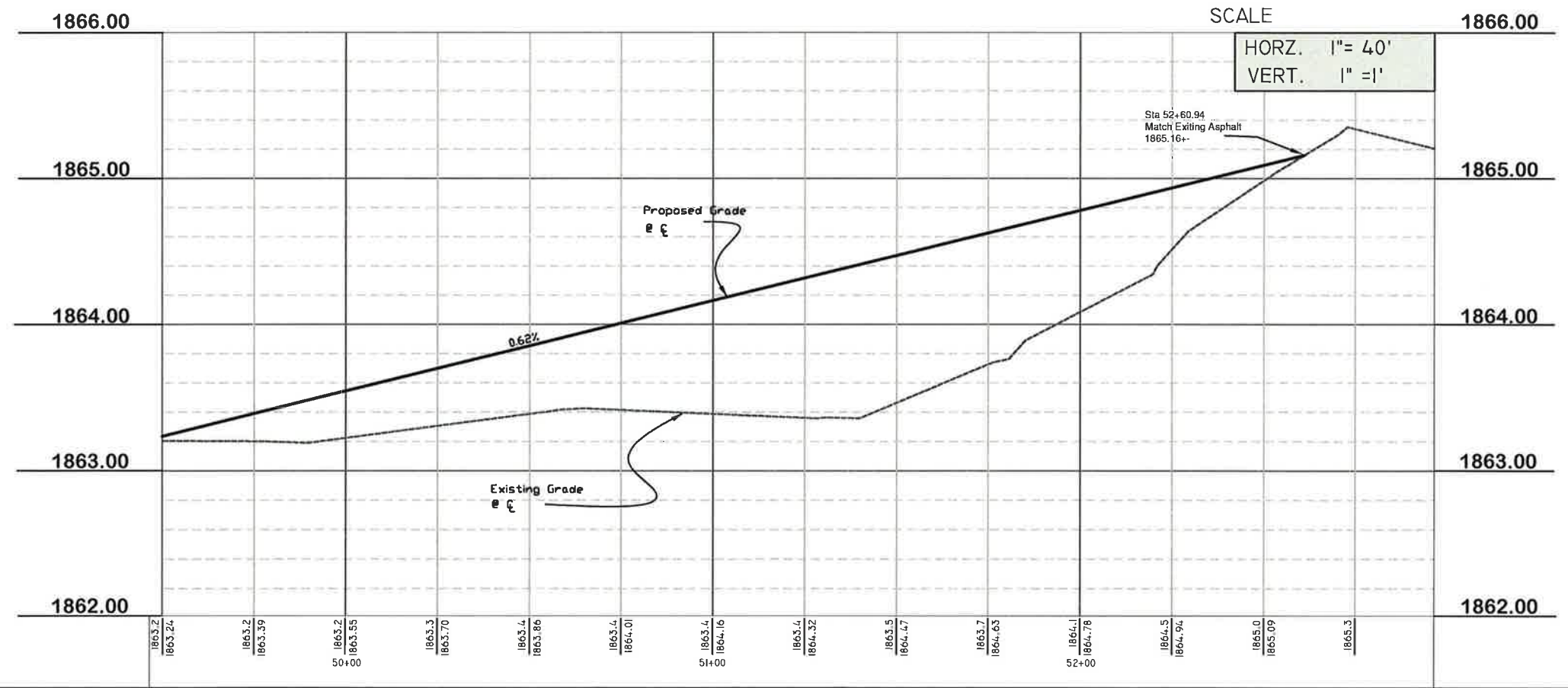
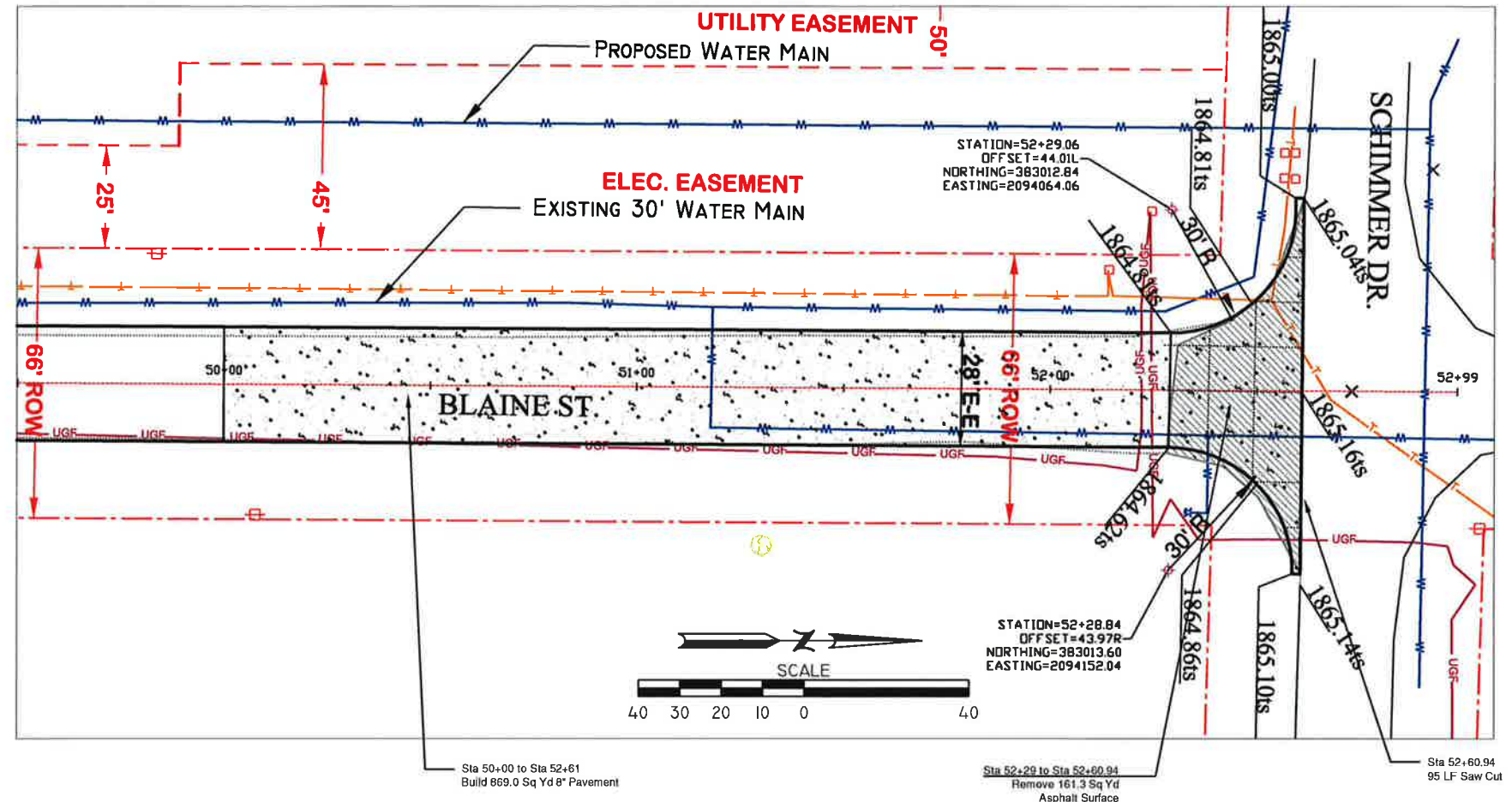
Sta 45+00 to Sta 50+00
Build 1556.0 Sq Yd 8" Pavement



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REVISIONS	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
	08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	MWL	

PLAN AND PROFILE
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



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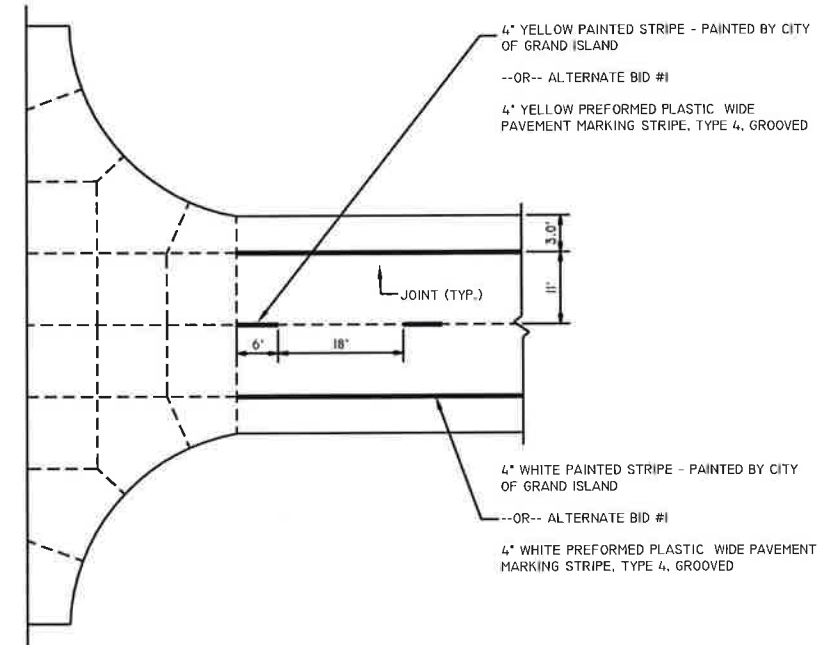
DATE	BY	REVISIONS
08/16/12	MWL	REVISIONS DESCRIPTION
		1 REVISE CENTER LINE GRADE & QUANTITIES

PLAN AND PROFILE
BLAINE ST PAVING -WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

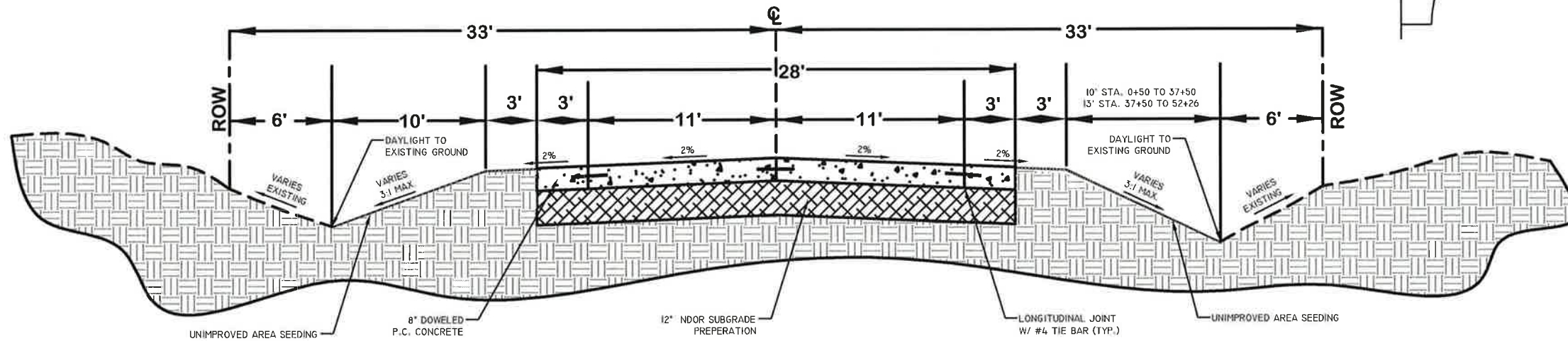
Total Volume Table							
Station	Cut Area (Sq Ft)	Fill Area (Sq Ft)	Cut Vol (Cu Yd)	Fill Vol (Cu Yd)	Cum Cut Vol (Cu Yd)	Cum Fill Vol (Cu Yd)	Net Vol (Cu Yd)
0+50.00	17.08	1.35	0.00	0.00	0.00	0.00	0.00
1+00.00	4.62	19.62	20.10	19.41	20.10	19.41	0.68
1+50.00	1.37	27.50	5.55	43.63	25.64	63.05	-37.40
2+00.00	2.90	21.01	3.95	44.92	29.59	107.96	-78.37
2+50.00	6.73	18.68	8.91	36.75	38.51	144.72	-106.21
3+00.00	12.93	12.16	18.20	28.56	56.71	173.27	-116.57
3+50.00	21.81	10.12	32.17	20.63	88.87	193.90	-105.03
4+00.00	28.74	8.22	46.80	16.99	135.68	210.89	-75.21
4+50.00	32.21	6.66	56.43	13.78	192.11	224.67	-32.56
5+00.00	34.63	5.38	61.88	11.14	253.99	235.81	18.18
5+50.00	37.50	5.55	66.79	10.11	320.78	245.93	74.86
6+00.00	40.04	2.77	71.80	7.70	392.59	253.63	138.96
6+50.00	44.06	3.62	77.87	5.92	470.46	259.55	210.91
7+00.00	49.57	2.22	86.69	5.40	557.15	264.95	292.20
7+50.00	50.00	0.77	92.19	2.76	649.34	267.71	381.63
8+00.00	51.90	1.26	94.35	1.88	743.69	269.59	474.10
8+50.00	55.35	0.55	99.31	1.67	842.99	271.26	571.73
9+00.00	55.82	0.33	102.94	0.82	945.94	272.08	673.86
9+50.00	56.78	0.00	104.27	0.30	1050.20	272.38	777.82
10+00.00	49.57	0.09	98.47	0.08	1148.68	272.46	876.21
10+50.00	39.74	0.44	82.70	0.49	1231.37	272.95	958.42
11+00.00	34.52	1.22	68.76	1.54	1300.13	274.49	1025.65
11+50.00	31.57	1.00	61.19	2.06	1361.32	276.54	1084.78
12+00.00	27.04	1.95	54.27	2.73	1415.59	279.27	1136.32
12+50.00	21.15	5.62	44.62	7.01	1460.21	286.28	1173.93
13+00.00	14.98	12.52	33.45	16.80	1493.66	303.08	1190.59
13+50.00	10.86	12.85	23.92	23.49	1517.59	326.57	1191.02
14+00.00	8.53	13.70	17.95	24.59	1535.54	351.15	1184.39
14+50.00	7.22	15.34	14.58	26.89	1550.12	378.04	1172.07
15+00.00	9.81	15.32	15.77	28.39	1565.88	406.43	1159.45
15+50.00	12.69	12.09	20.83	25.38	1586.71	431.81	1154.91
16+00.00	15.42	9.08	26.03	19.60	1612.74	451.40	1161.33
16+50.00	15.84	9.52	28.94	17.22	1641.68	468.62	1173.06
17+00.00	14.34	11.41	27.94	19.38	1669.62	488.01	1181.61
17+50.00	10.50	14.09	23.00	23.61	1692.62	511.62	1181.00
18+00.00	12.41	12.38	21.22	24.51	1713.84	536.13	1177.71
18+50.00	15.08	11.35	25.46	21.97	1739.30	558.10	1181.20
19+00.00	20.11	6.92	32.59	16.91	1771.89	575.01	1196.88
19+50.00	29.66	4.66	46.09	10.72	1817.98	585.73	1232.25
20+00.00	36.75	2.65	61.50	6.76	1879.48	592.49	1286.99
20+50.00	40.10	2.48	71.16	4.74	1950.64	597.23	1353.41
21+00.00	42.13	2.63	76.14	4.73	2026.79	601.96	1424.83

Total Volume Table							
Station	Cut Area (Sq Ft)	Fill Area (Sq Ft)	Cut Vol (Cu Yd)	Fill Vol (Cu Yd)	Cum Cut Vol (Cu Yd)	Cum Fill Vol (Cu Yd)	Net Vol (Cu Yd)
21+50.00	45.04	4.67	80.71	6.77	2107.50	608.73	1498.77
22+00.00	49.14	2.15	87.20	6.31	2194.69	615.04	1579.66
22+50.00	45.81	2.94	87.92	4.71	2282.61	619.75	1662.87
23+00.00	40.64	2.84	80.05	5.35	2362.67	625.10	1737.57
23+50.00	35.99	4.24	70.96	6.55	2433.62	631.65	1801.98
24+00.00	37.22	4.10	67.79	7.72	2501.41	639.36	1862.05
24+50.00	36.67	3.70	68.42	7.22	2569.83	646.58	1923.25
25+00.00	37.97	3.59	69.11	6.75	2638.95	653.33	1985.61
25+50.00	41.14	4.31	73.25	7.31	2712.19	660.64	2051.55
25+92.69	59.97	0.00	79.93	3.40	2792.12	664.05	2128.07
26+00.00	49.02	3.77	14.75	0.51	2806.87	664.56	2142.31
26+50.00	38.25	4.40	80.81	7.57	2887.68	672.12	2215.56
27+00.00	24.74	7.40	58.32	10.92	2946.01	683.05	2262.96
27+50.00	17.89	9.74	39.47	15.87	2985.48	698.91	2286.56
28+00.00	16.03	10.11	31.40	18.38	3016.88	717.29	2299.59
28+50.00	17.63	13.09	31.17	21.48	3048.05	738.78	2309.27
29+00.00	23.77	7.06	38.34	18.66	3086.38	757.44	2328.95
29+50.00	28.38	4.96	48.29	11.13	3134.68	768.57	2366.11
30+00.00	28.24	7.15	52.43	11.21	3187.11	779.78	2407.33
30+50.00	29.26	6.18	53.25	12.34	3240.36	792.12	2448.24
31+00.00	16.53	12.38	42.40	17.18	3282.75	809.30	2473.45
31+50.00	13.68	12.59	27.97	23.12	3310.72	832.42	2478.31
32+00.00	9.27	14.75	21.26	25.32	3331.98	857.73	2474.24
32+50.00	5.58	17.60	13.75	29.96	3345.73	887.69	2458.04
33+00.00	3.40	18.78	8.31	33.68	3354.04	921.38	2432.67
33+50.00	0.10	24.88	3.24	40.43	3357.28	961.80	2395.48
34+00.00	0.00	35.05	0.09	55.49	3357.37	1017.29	2340.08
34+50.00	0.00	47.34	0.00	76.28	3357.37	1093.57	2263.80
35+00.00	0.00	59.58	0.00	99.00	3357.37	1192.57	2164.81
35+50.00	0.00	67.89	0.00	118.03	3357.37	1310.60	2046.78
36+00.00	0.00	82.04	0.00	138.82	3357.37	1449.42	1907.96
36+50.00	0.00	77.33	0.00	147.56	3357.37	1596.98	1760.40
37+00.00	0.00	63.97	0.00	130.83	3357.37	1727.81	1629.56
37+50.00	0.00	29.30	0.00	86.37	3357.38	1814.18	1543.20
37+70.00	0.30	62.51	0.11	34.00	3357.49	1848.18	1509.31
38+00.00	0.00	42.51	0.17	58.34	3357.66	1906.52	1451.14
38+50.00	0.00	71.04	0.00	105.14	3357.66	2011.67	1345.99
39+00.00	0.00	89.95	0.00	149.07	3357.66	2160.73	1196.93
39+50.00	0.00	94.12	0.00	170.44	3357.66	2331.17	1026.49
40+00.00	0.00	88.74	0.00	169.32	3357.66	2500.49	857.17
40+50.00	0.00	83.63	0.00	159.60	3357.66	2660.09	697.57
41+00.00	0.00	85.22	0.00	156.34	3357.66	2816.44	541.23

Total Volume Table							
Station	Cut Area (Sq Ft)	Fill Area (Sq Ft)	Cut Vol (Cu Yd)	Fill Vol (Cu Yd)	Cum Cut Vol (Cu Yd)	Cum Fill Vol (Cu Yd)	Net Vol (Cu Yd)
41+50.00	0.00	76.43	0.00	149.68	3357.66	2966.11	391.55
42+00.00	0.00	60.88	0.00	127.14	3357.66	3093.25	264.41
42+50.00	0.00	52.54	0.00	105.02	3357.66	3198.27	159.39
43+00.00	0.00	45.39	0.00	90.67	3357.66	3288.94	68.72
43+50.00	0.00	39.30	0.00	78.41	3357.66	3367.35	-9.69
44+00.00	0.00	32.87	0.00	66.82	3357.66	3434.17	-76.51
44+50.00	0.57	26.45	0.53	54.93	3358.19	3489.10	-130.91
45+00.00	6.37	19.22	6.42	42.29	3364.61	3531.39	-166.78
45+50.00	11.95	14.11	16.96	30.86	3381.57	3562.26	-180.68
46+00.00	16.00	10.18	25.88	22.49	3407.45	3584.74	-177.29
46+50.00	21.77	6.92	34.97	15.83	3442.42	3600.57	-158.15
47+00.00	29.42	5.43	47.39	11.43	3489.81	3612.00	-122.19
47+50.00	36.15	5.80	60.71	10.40	3550.52	3622.40	-71.87
48+00.00	34.77	4.10	65.67	9.17	3616.19	3631.56	-15.37
48+50.00	28.54	5.16	58.62	8.57	3674.81	3640.14	34.67
49+00.00	21.45	10.67	46.29	14.66	3721.10	3654.80	66.30
49+50.00	13.29	15.28	32.17	24.03	3753.26	3678.83	74.43
50+00.00	5.78	17.13	17.66	30.01	3770.92	3708.84	62.08
50+50.00	2.33	22.00	7.51	36.23	3778.43	3745.07	33.36
51+00.00	0.01	29.61	2.16	47.79	3780.59	3792.86	-12.27
51+37.82	0.08	37.85	0.06	47.25	3780.66	3840.11	-59.45
51+50.00	0.00	37.19	0.02	16.93	3780.68	3857.04	-76.36
51+75.00	0.00	35.71	0.00	33.75	3780.68	3890.79	-110.11
52+00.00	0.71	32.14	0.33	31.41	3781.01	3922.20	-141.19
52+28.00	0.00	0.00	0.37	16.66	3781.38	3938.86	-157.49



TYPICAL SECTION

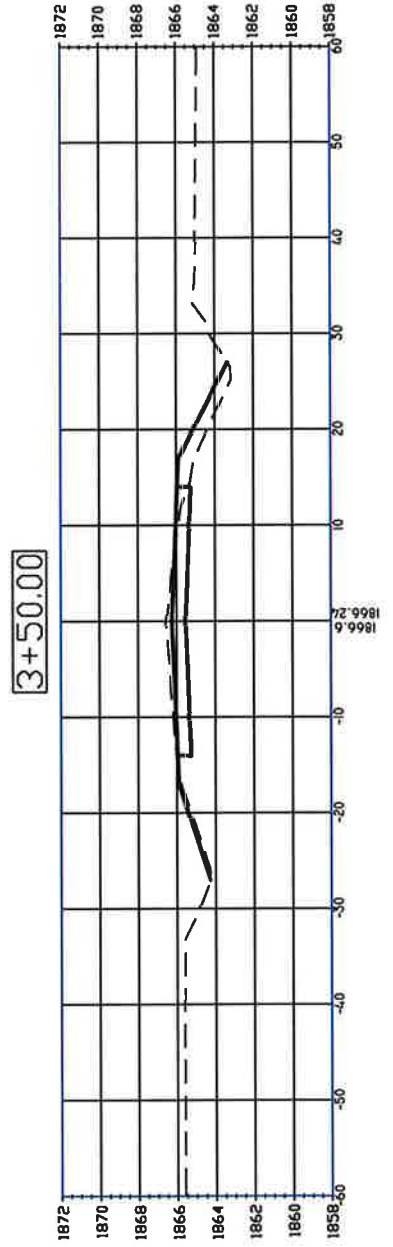
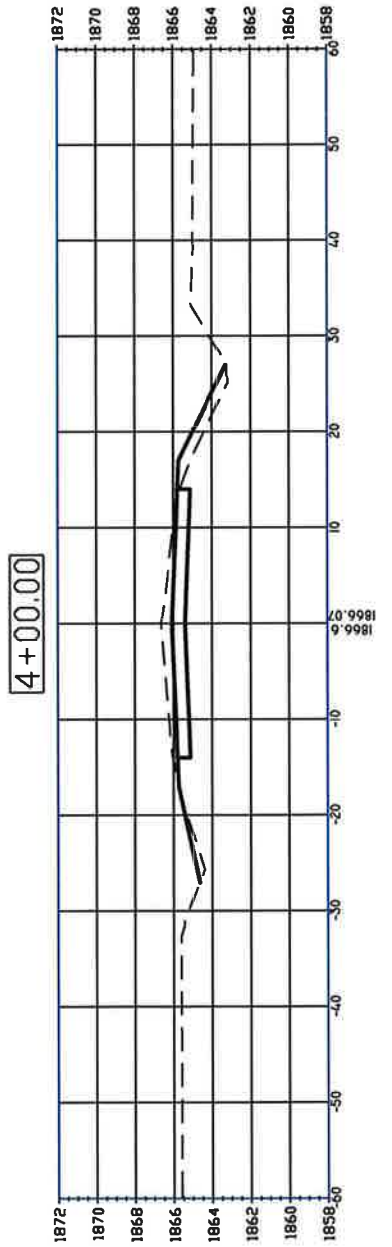
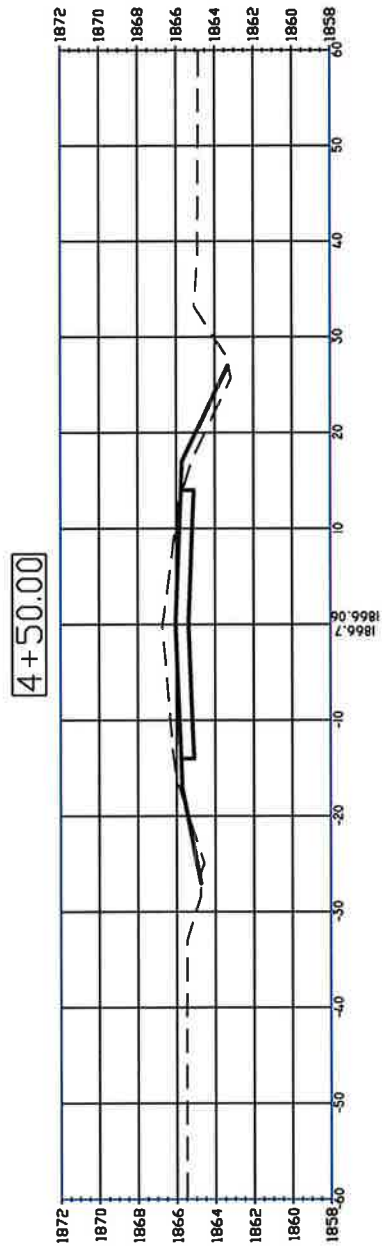
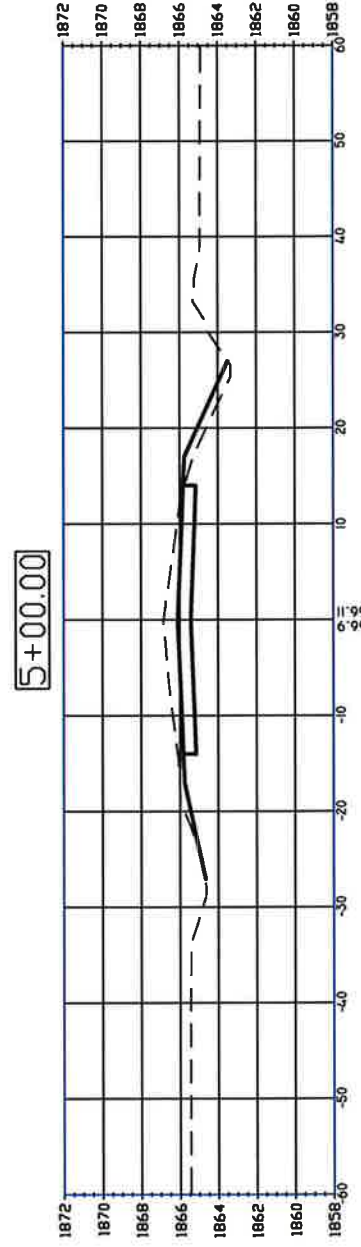
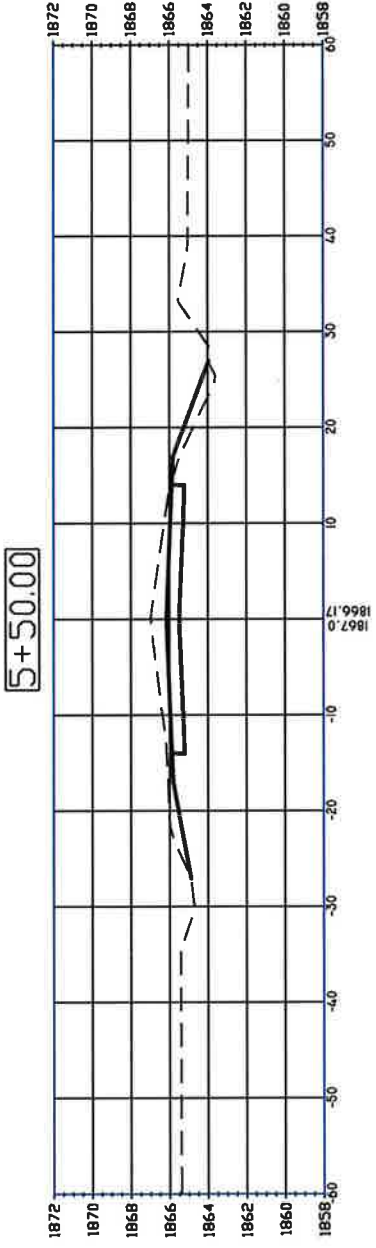
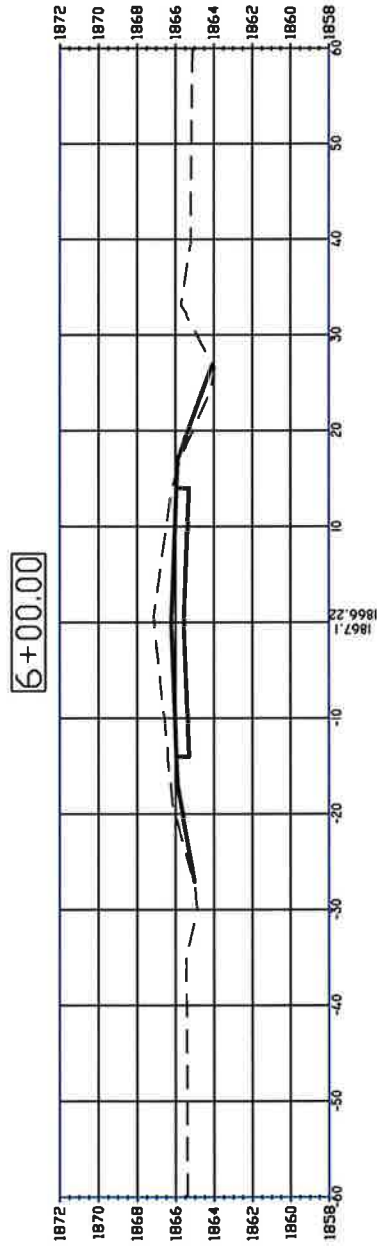


PAVEMENT MARKING

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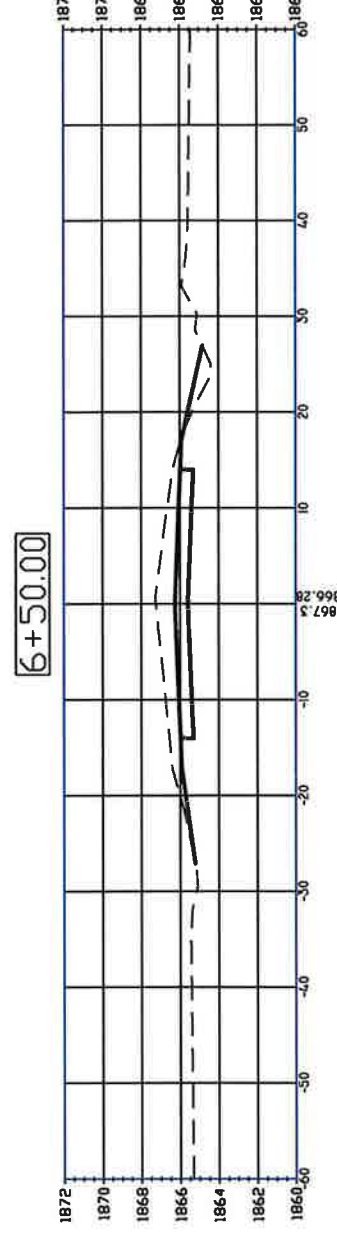
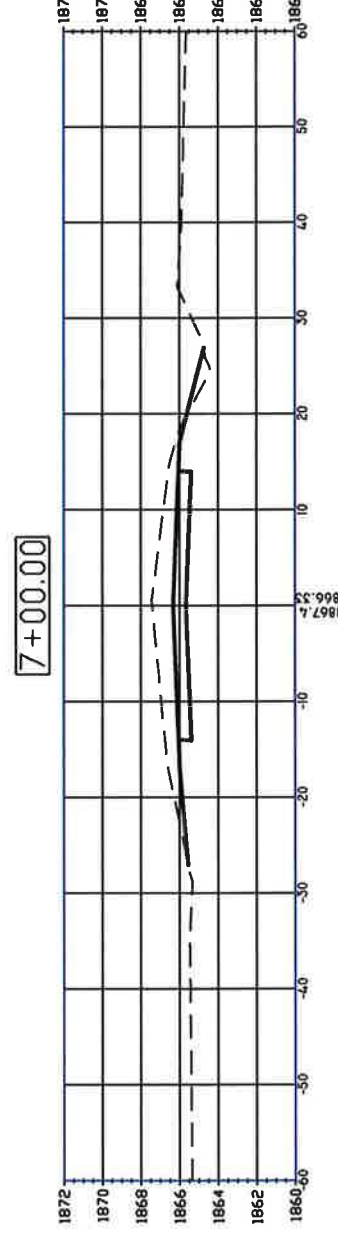
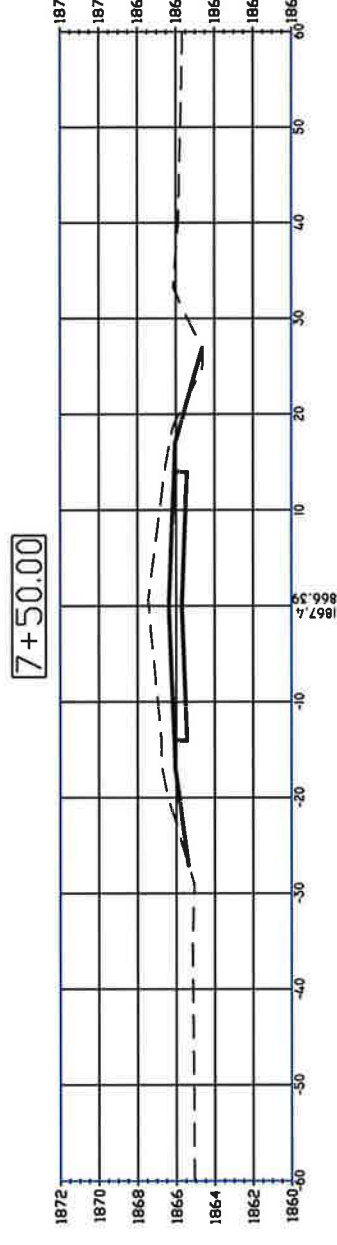
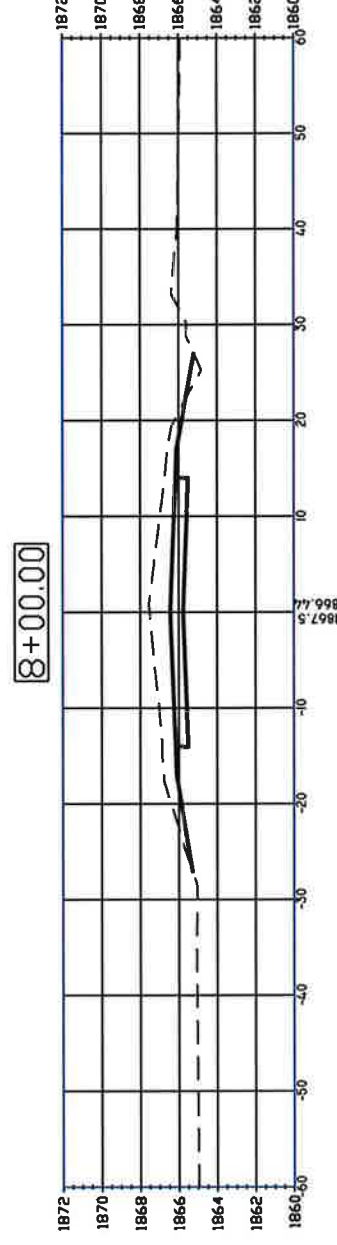
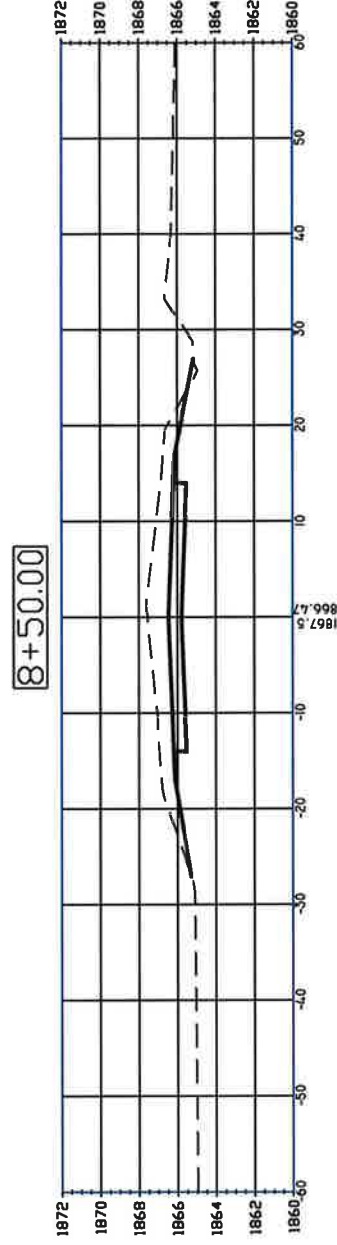
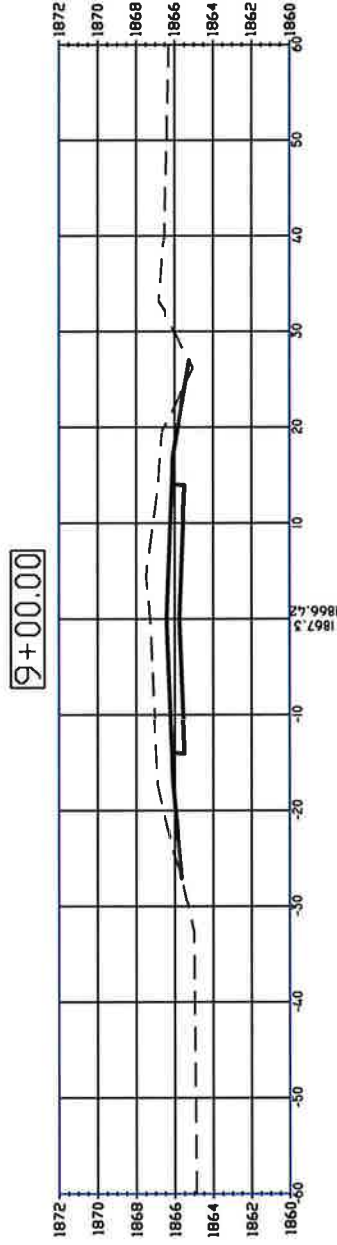
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	08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES	DATE:	XX/XX/XX
				DR. BY:	MIL
				DATE:	07/06/2012
				CHK. BY:	KK
				DATE:	08/13/12
				APPR. BY:	KK
				DATE:	02-11-2013

VOLUME TABLE AND TYPICAL SECTION
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DATE	BY
07/16/12	MVL		REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	MVL		

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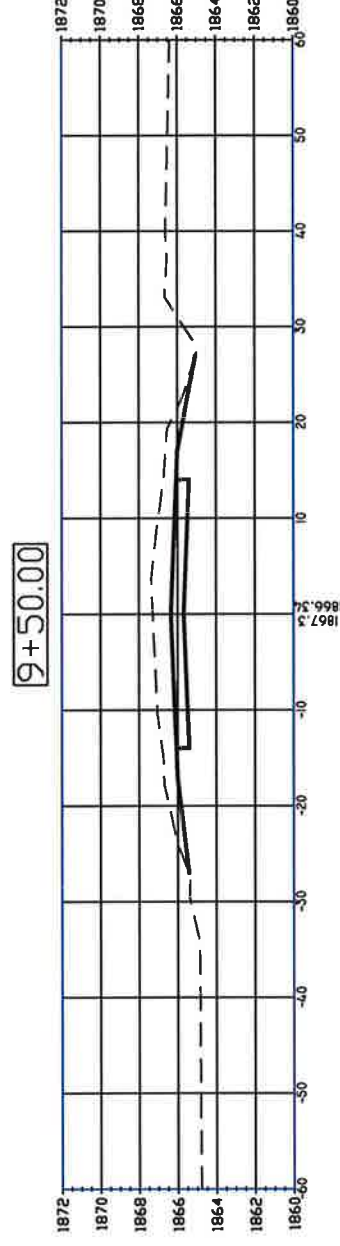
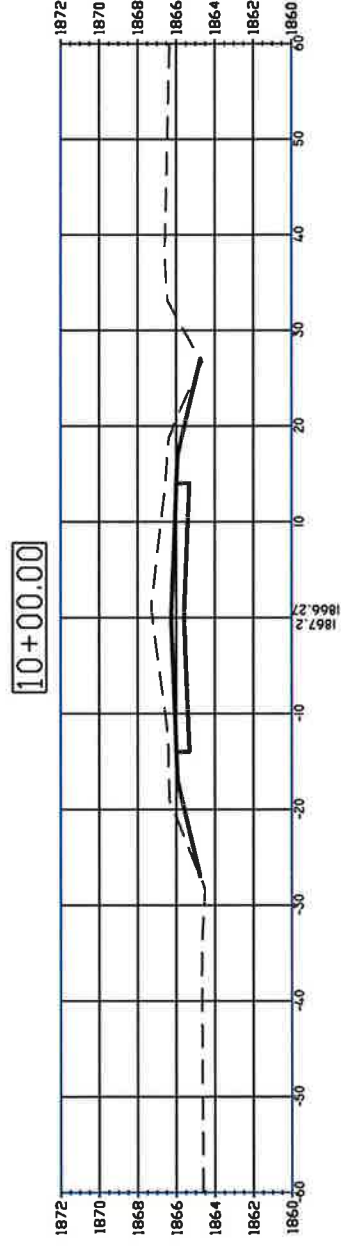
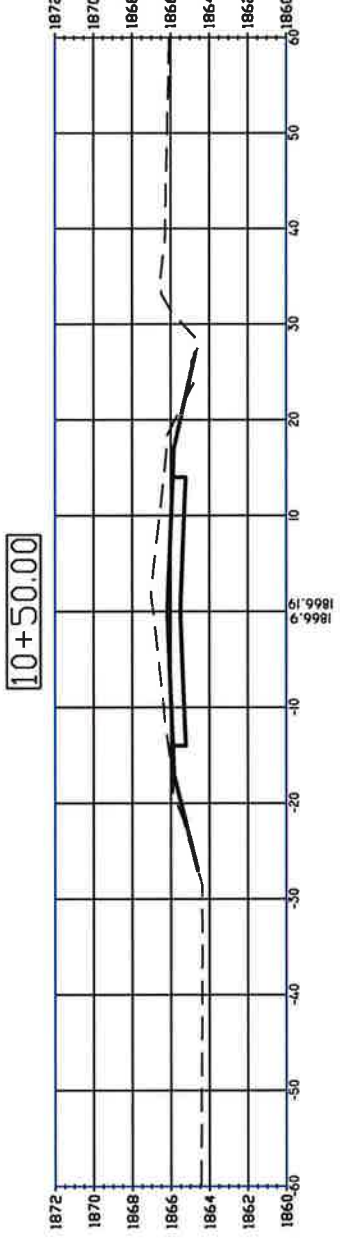
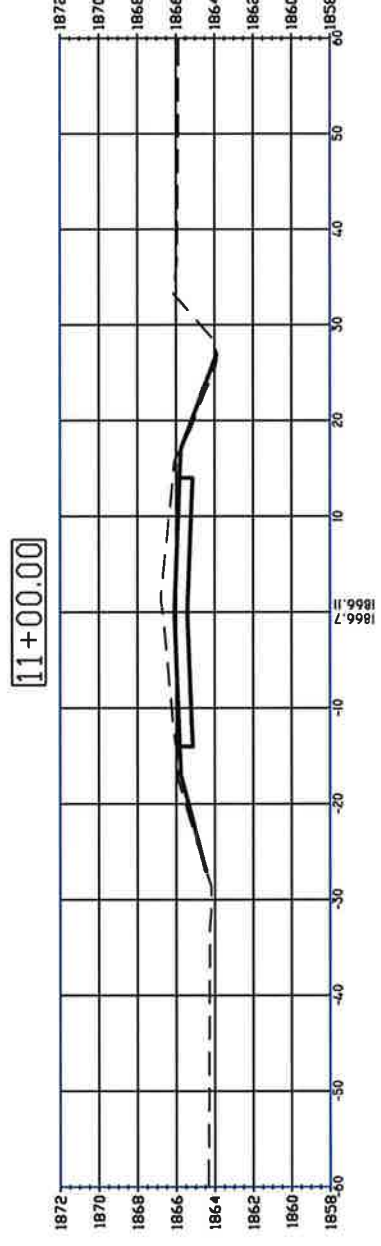
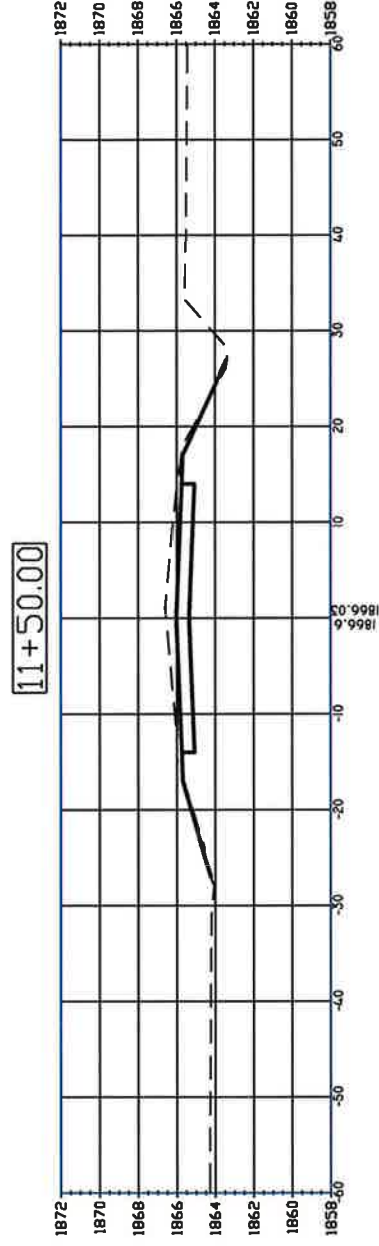
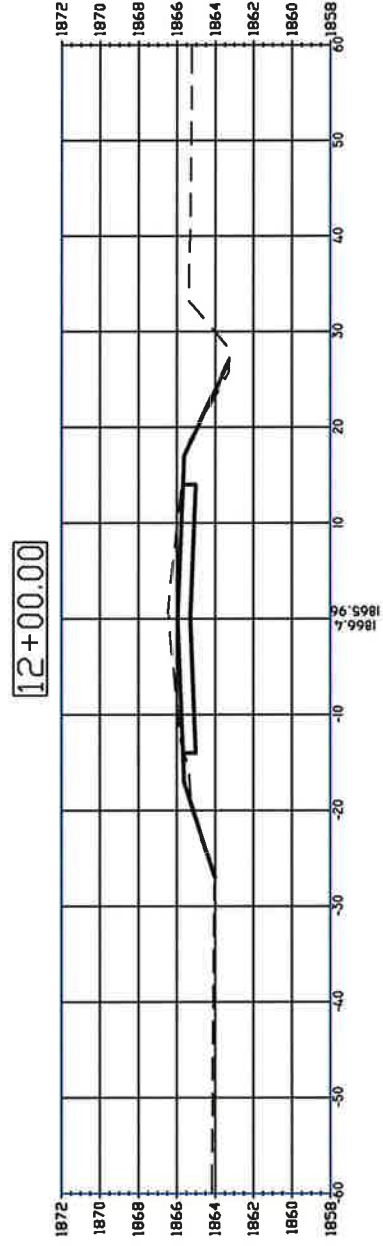
DRAWING NO:
Blaine-Base Dwg

CROSS SECTIONS

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

REVISIONS		SURV. BY:		MVL	
DATE	BY	DESCRIPTION	DATE	BY	DATE
08/16/12	MVL	REVISE CENTER LINE GRADE & QUANTITIES	XX/XX/XX	MVL	
			07/06/2012	KK	
			08/13/12	KK	
			02-11-2013	KK	

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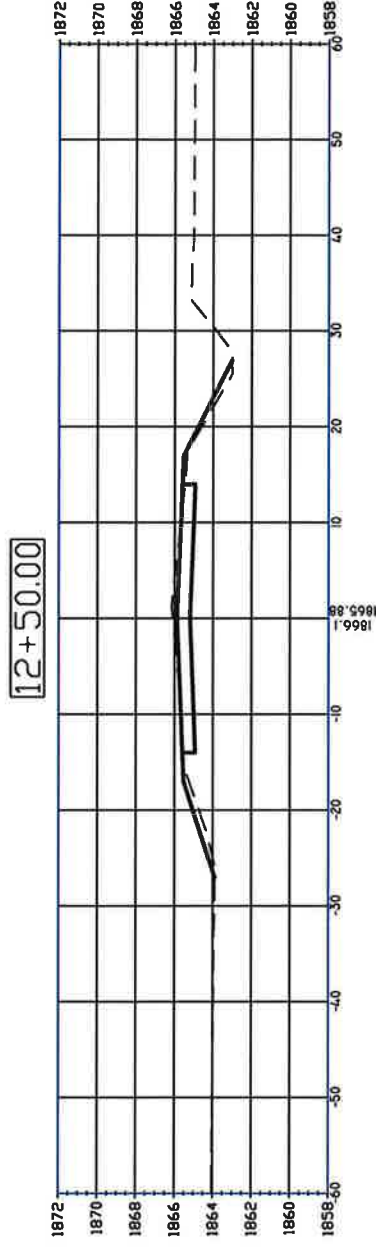
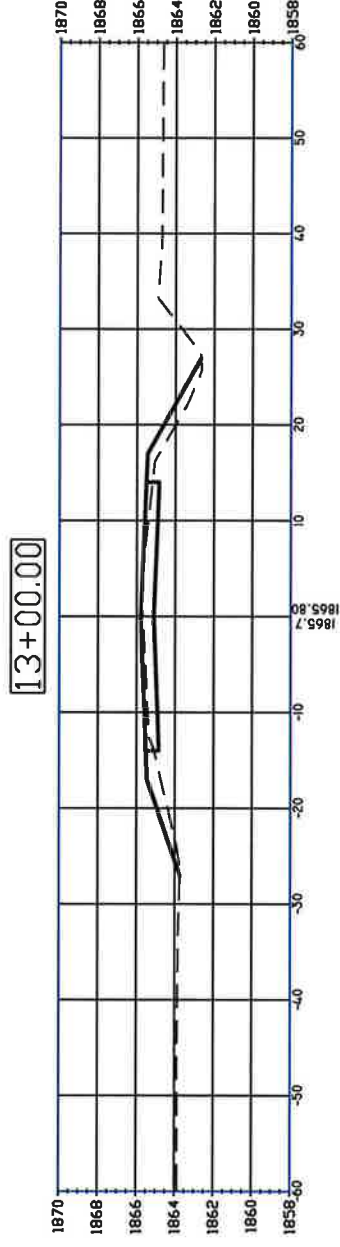
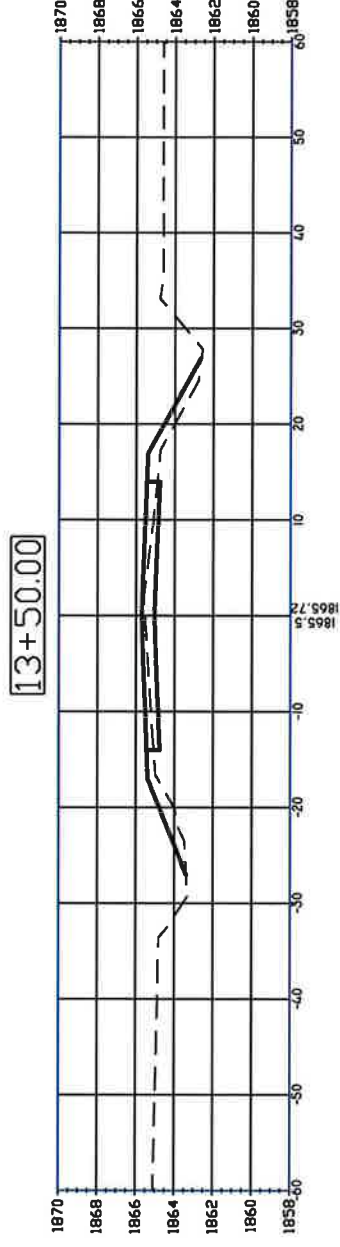
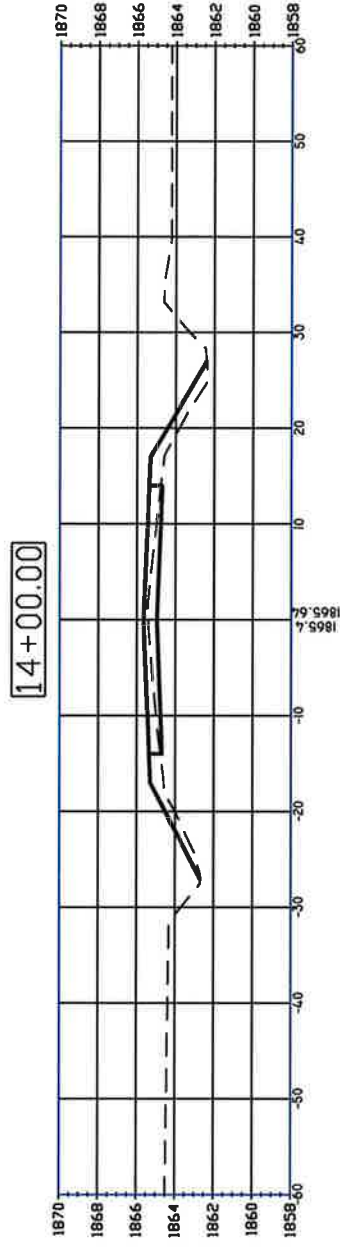
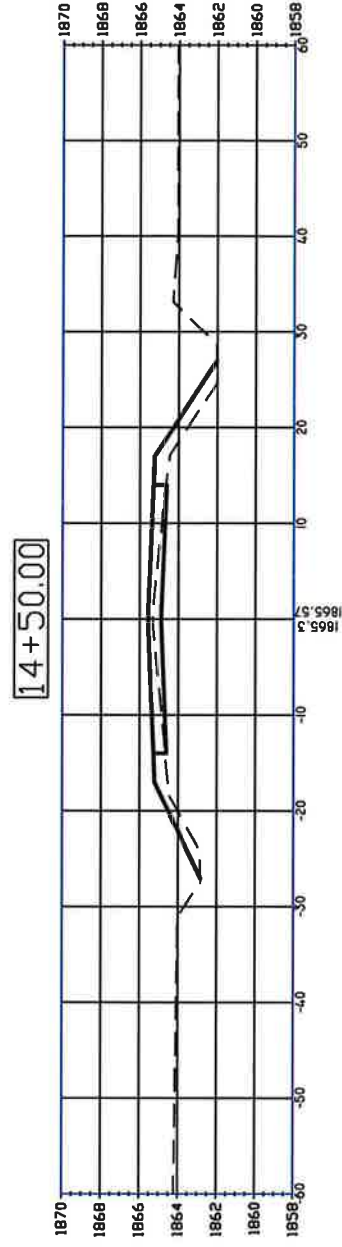
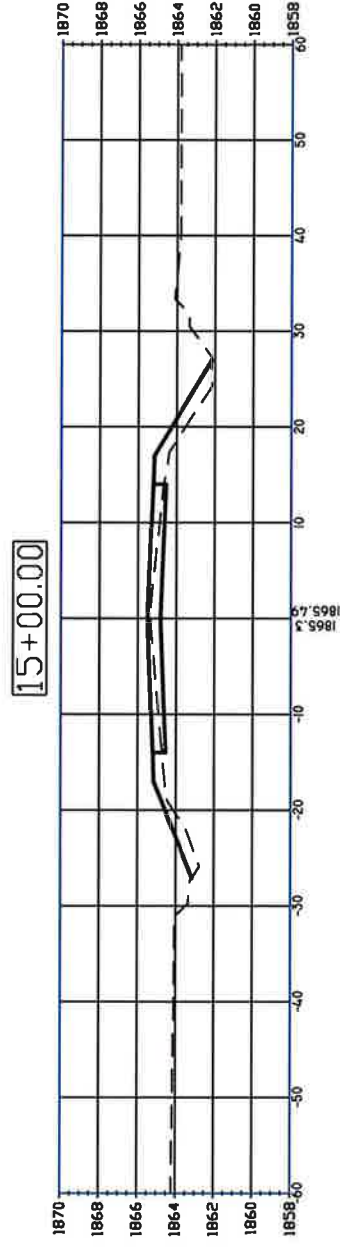


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DATE	BY	REVISIONS	DATE	SLURV. BY:	MWL
08/16/12	PMW	DESCRPTION	07/06/2012	XX/XX/XX	XX/XX/XX
		REVISE CENTER LINE GRADE & QUANTITIES			
				CHK. BY:	KK
				DATE:	08/13/12
				APPR. BY:	KK
				DATE:	02-11-2013

CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

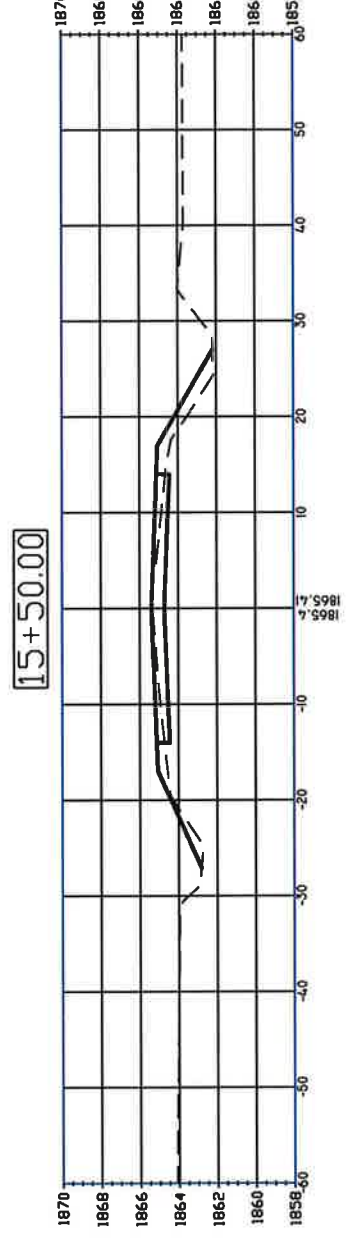
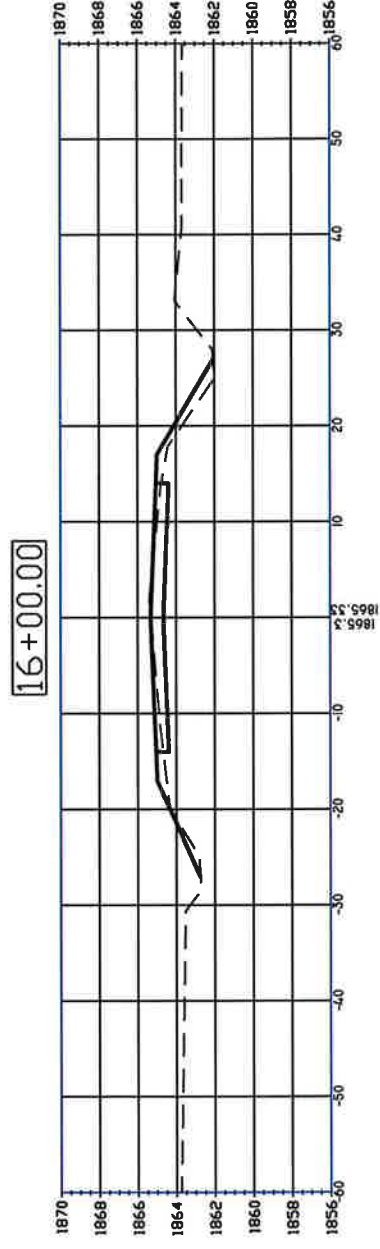
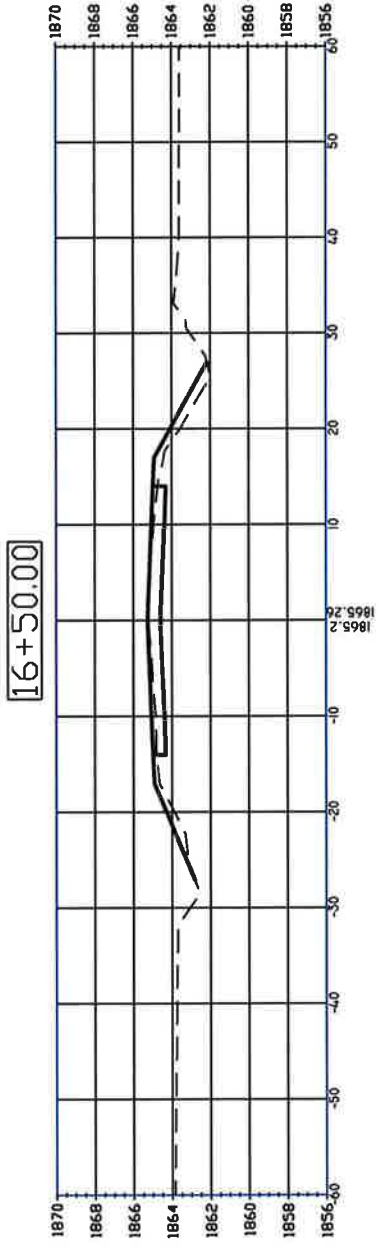
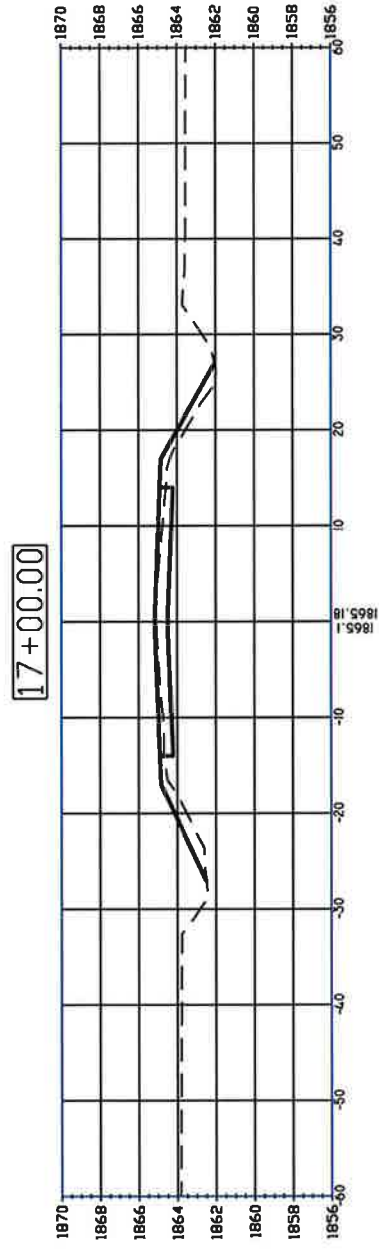
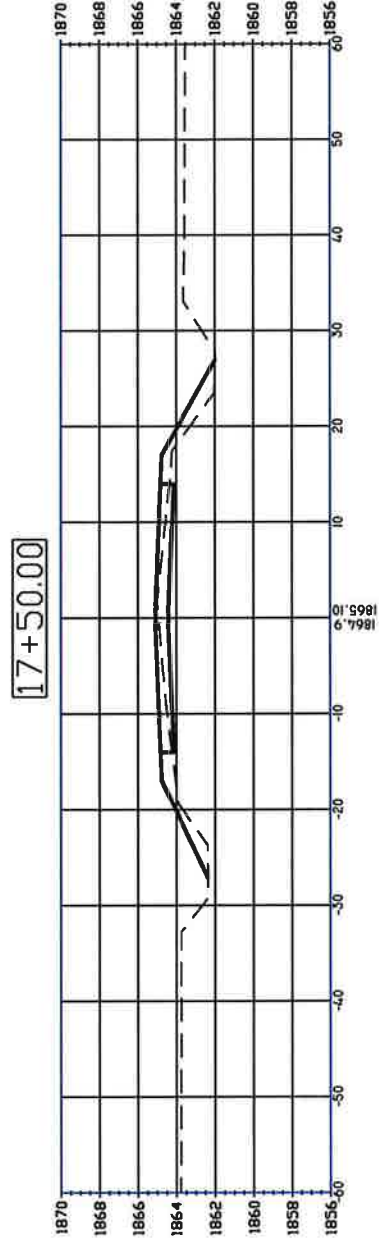
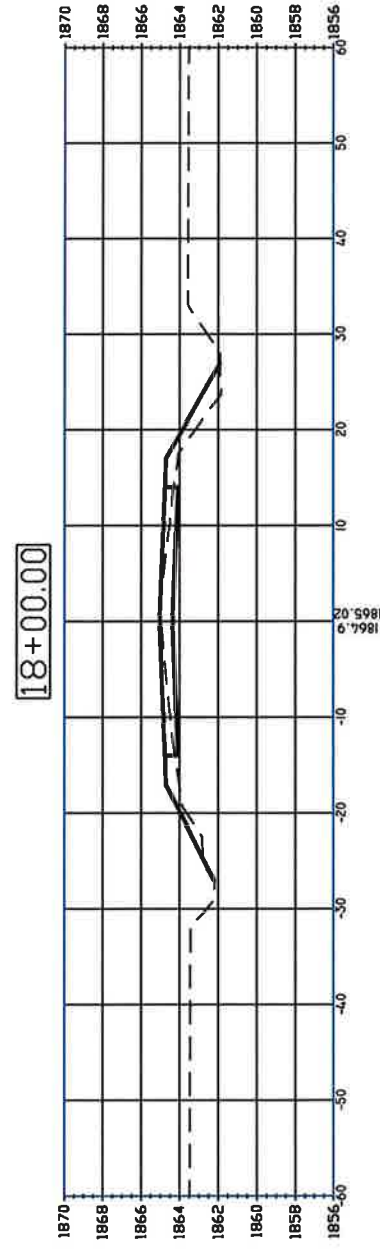
DRAWING NO.:
Blaine-Base Dwg



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DATE	BY	REVISIONS	DESCRIPTION	SUPV. BY:	MWL
08/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES		DATE:	XX/XX/XX
				DR. BY:	MWL
				DATE:	07/06/2012
				CHK. BY:	KK
				DATE:	08/13/12
				APPR. BY:	KK
				DATE:	02-11-2013

CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



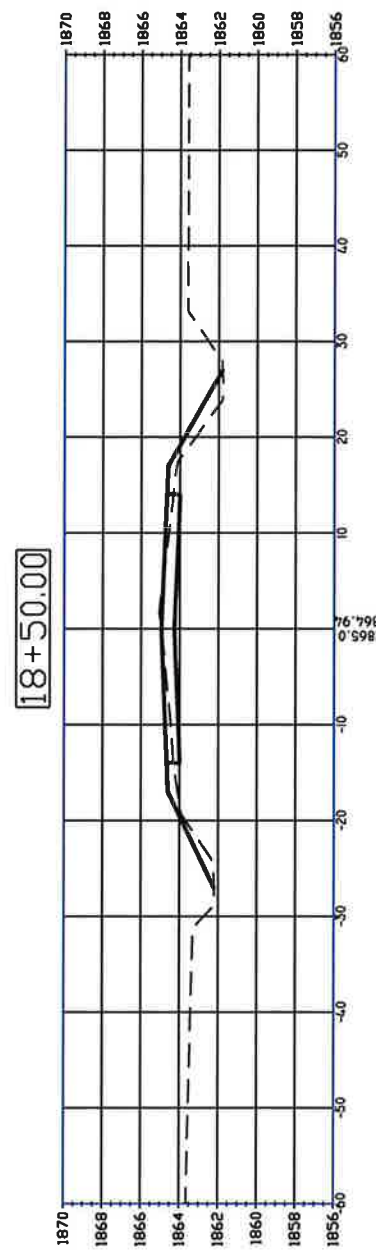
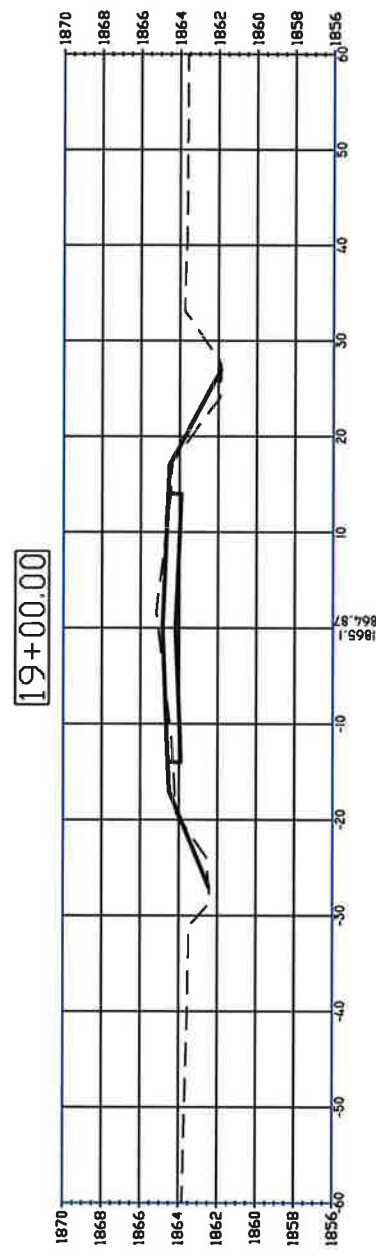
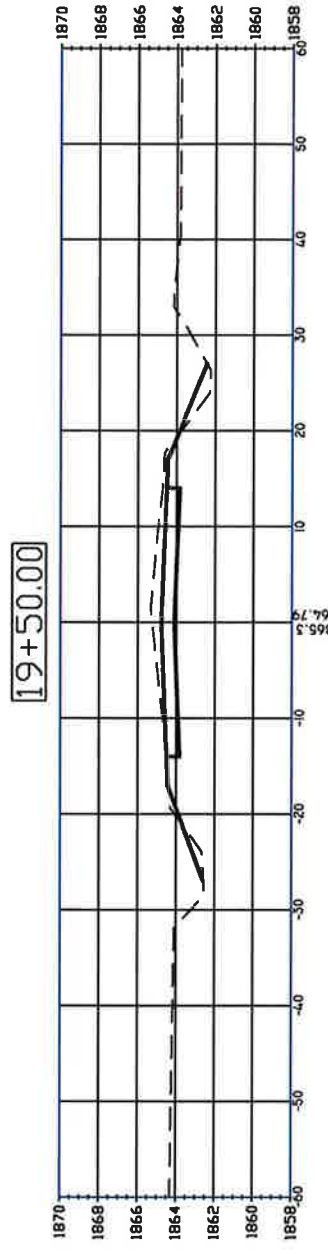
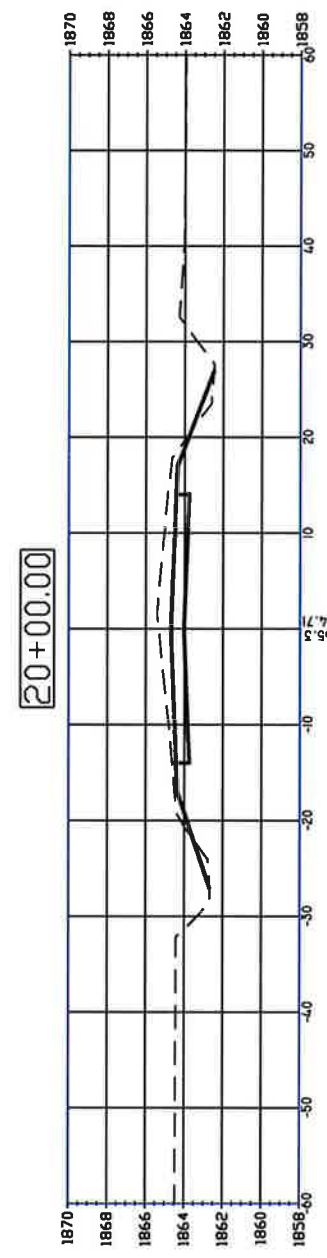
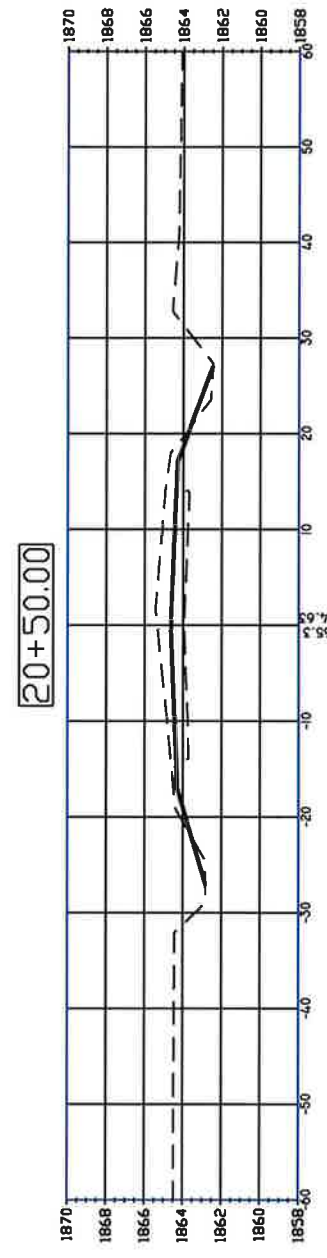
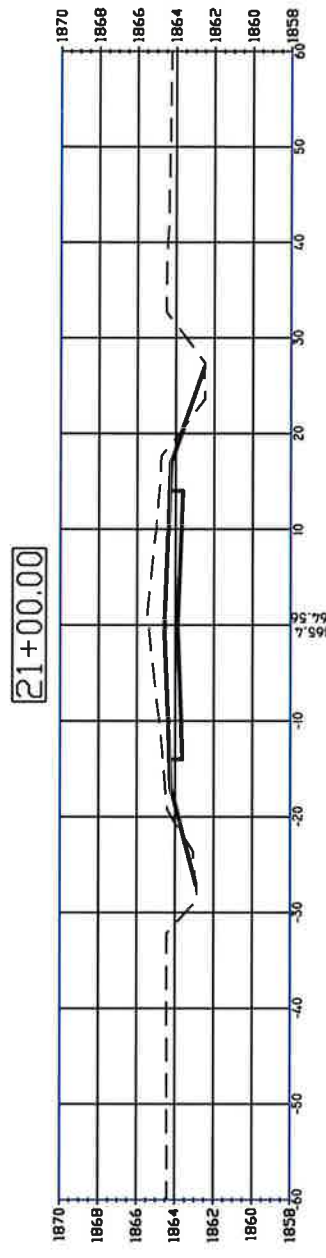
CROSS SECTIONS

BLAINE ST PAVING - WILWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

DATE	BY	REVISIONS	SURV. BY:	MNL
08/15/12	PMW	DESCRIPTION	DATE:	XX/XX/XX
		REVISE CENTER LINE GRADE & QUANTITIES	DR. BY:	MNL
			DATE:	07/06/2012
			CHK. BY:	KK
			DATE:	08/13/12
			APPR. BY:	KK
			DATE:	02-11-2013

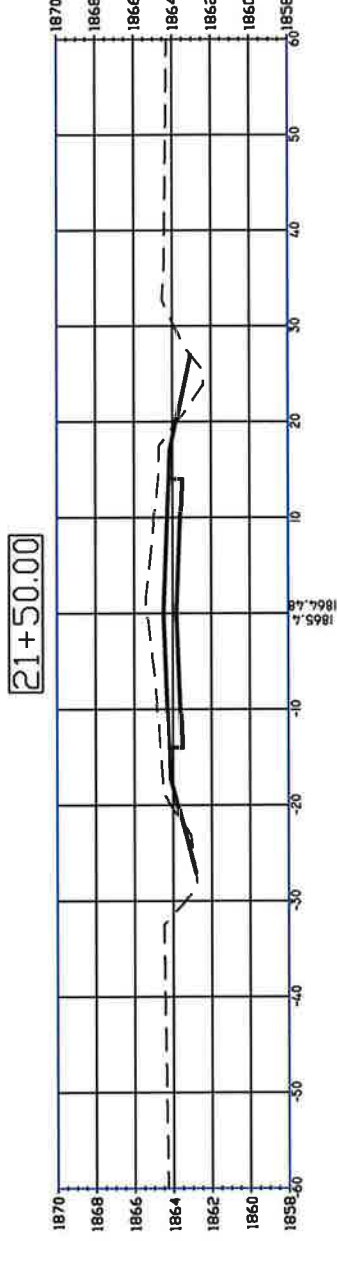
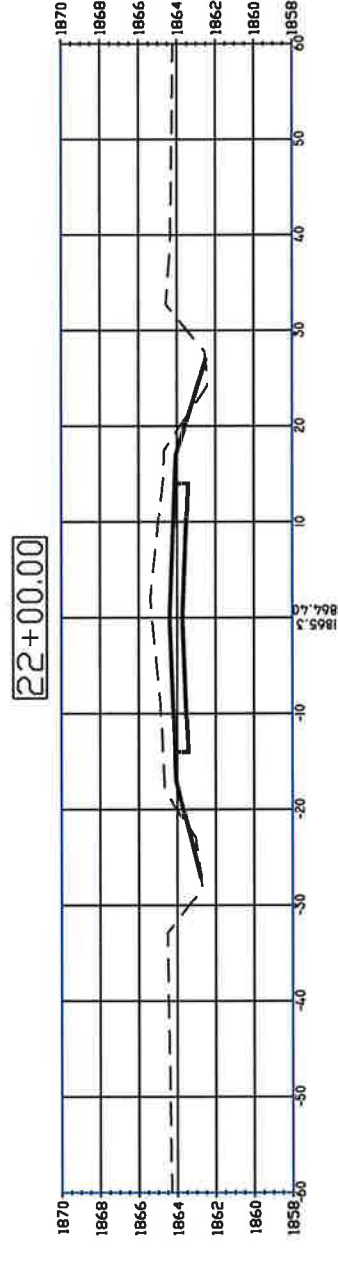
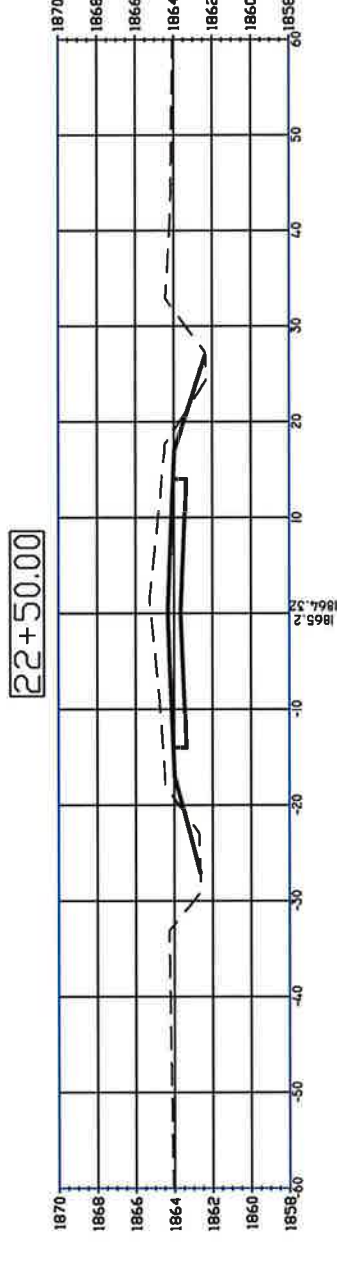
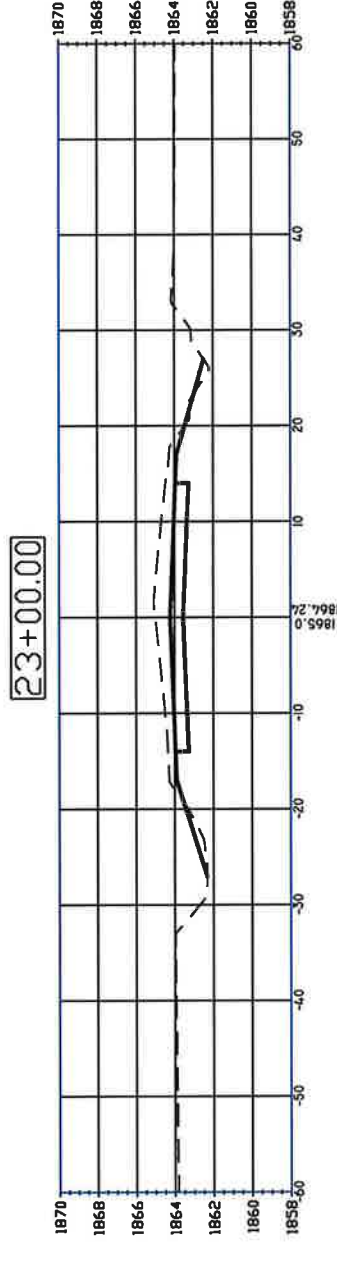
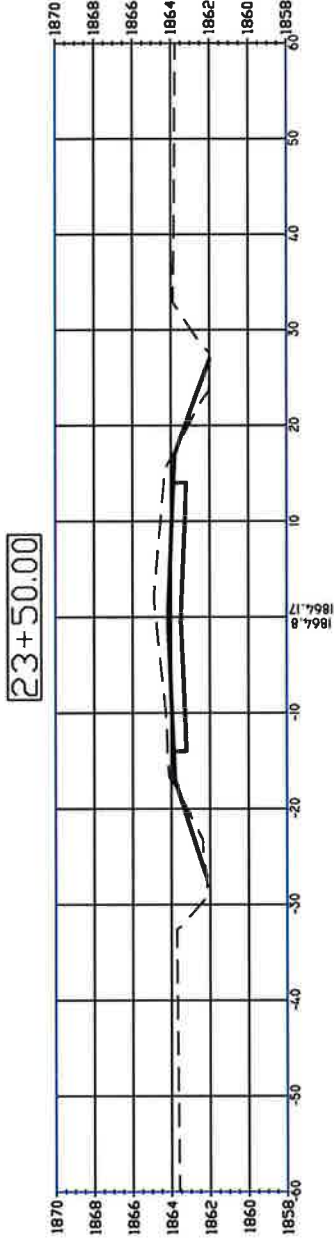
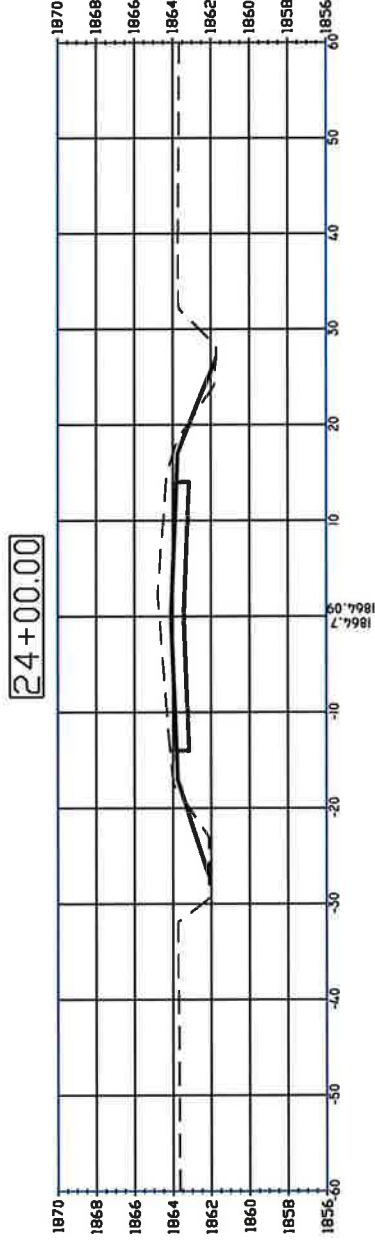
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DATE	BY	REVISIONS	DATE	BY
08/12/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	MWL

SURV. BY:	MWL
DATE:	XX/XX/XX
DR. BY:	MWL
DATE:	07/06/2012
CHK. BY:	KK
DATE:	08/13/12
APPR. BY:	KK
DATE:	02-11-2013

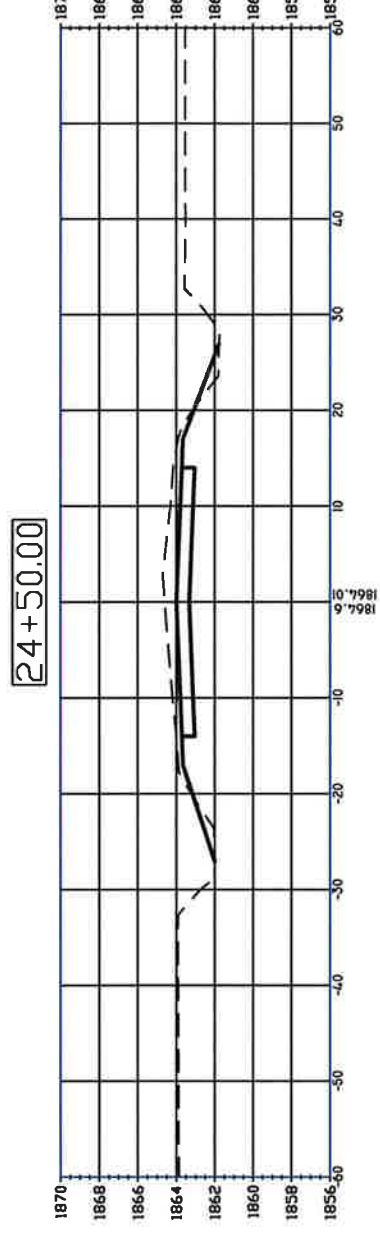
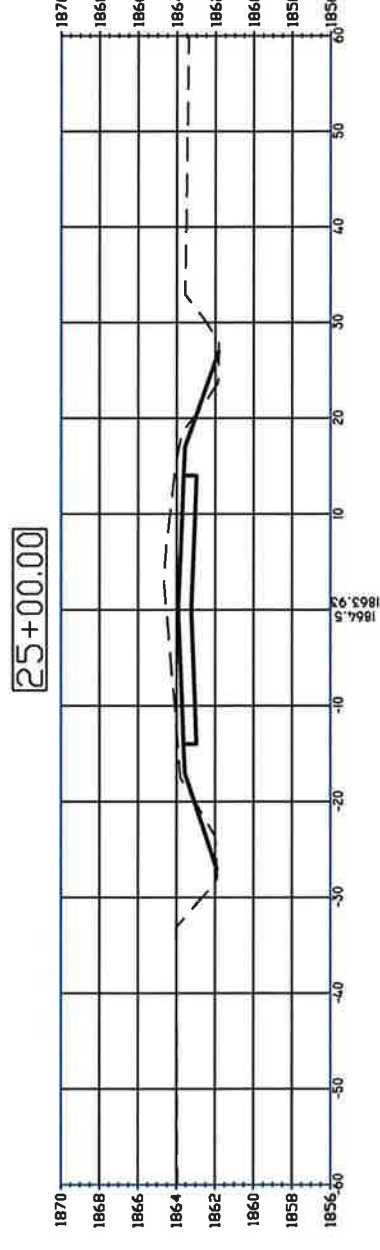
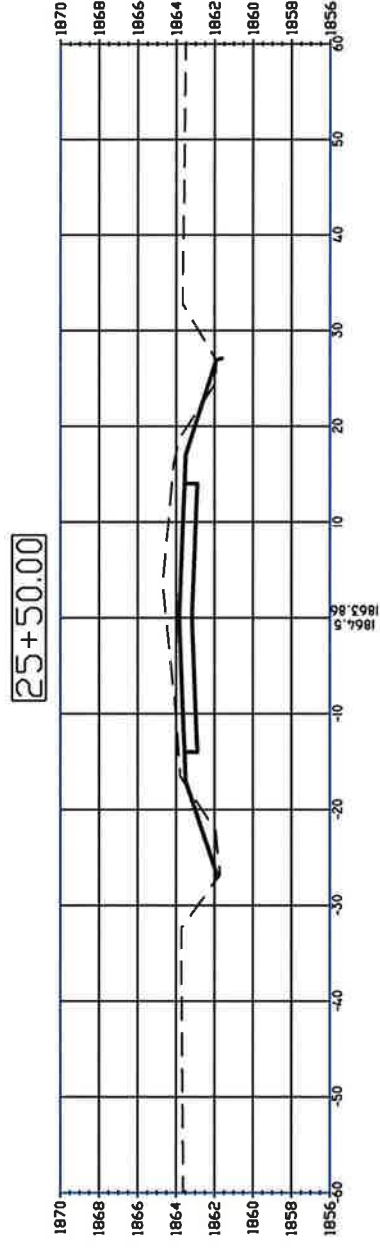
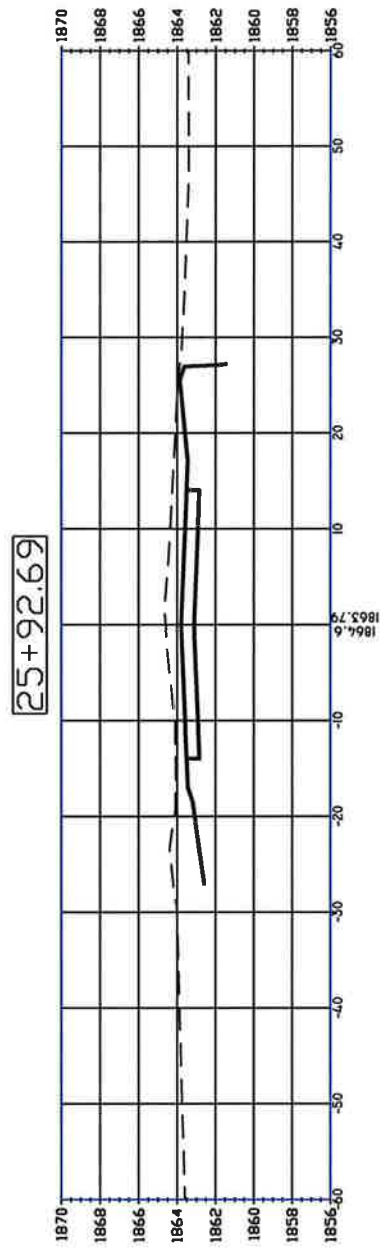
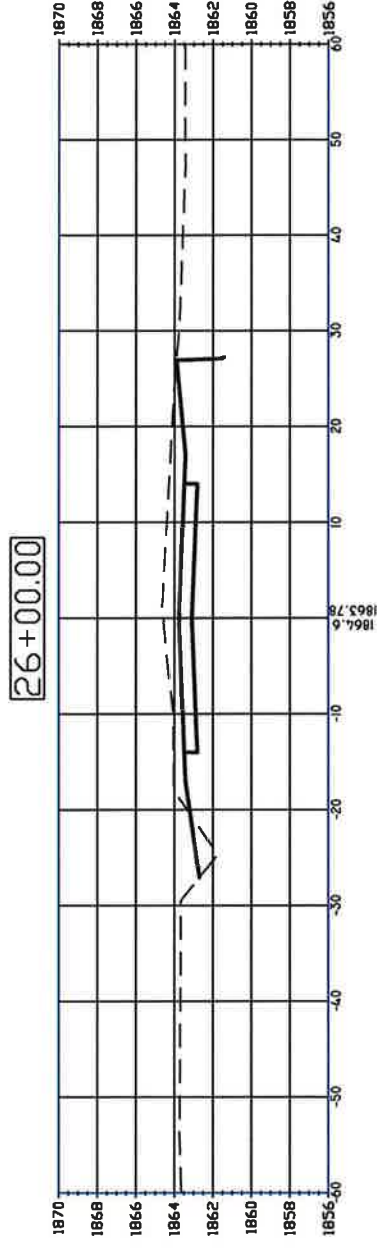
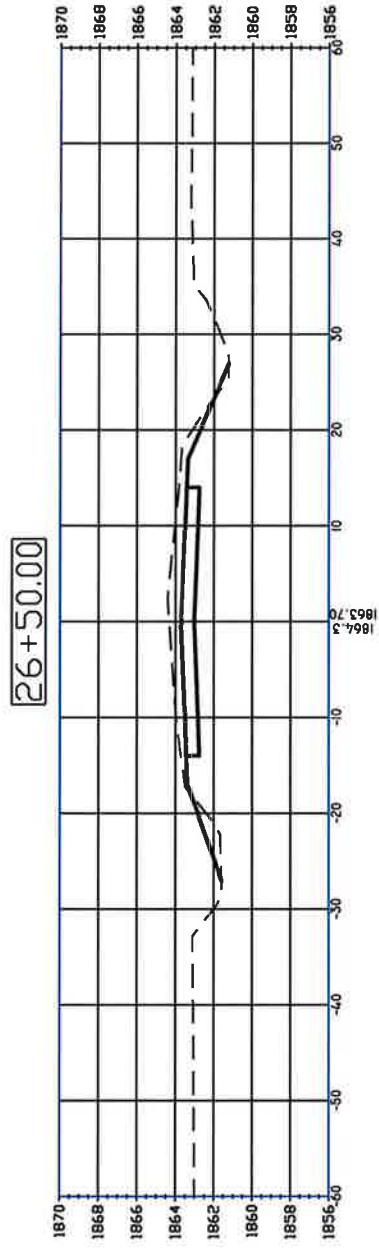
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DATE	BY	REVISIONS	DATE	BY	DATE	BY
07/16/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES	XX/XX/XX	MWL	07/06/2012	KK
					08/13/12	KK
					02-11-2013	KK

CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



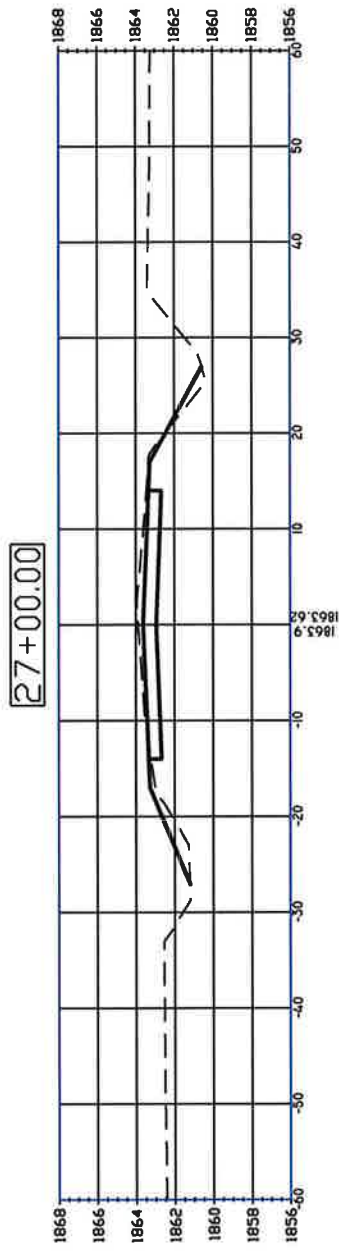
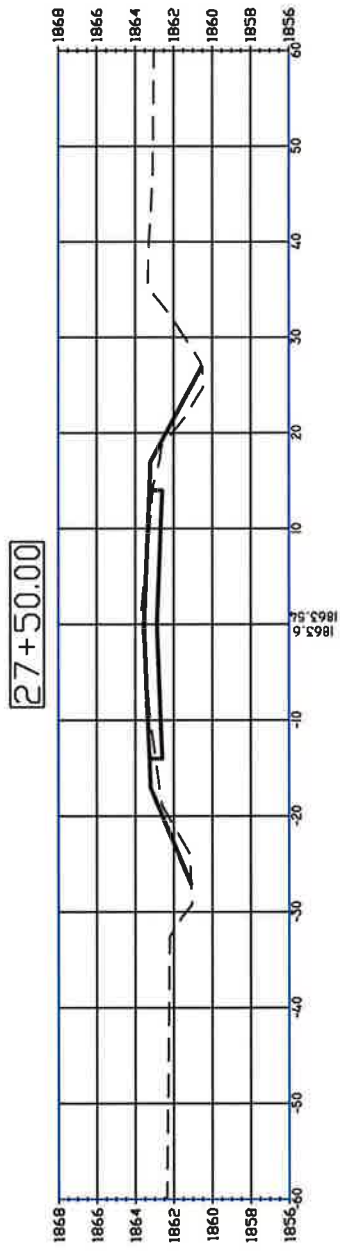
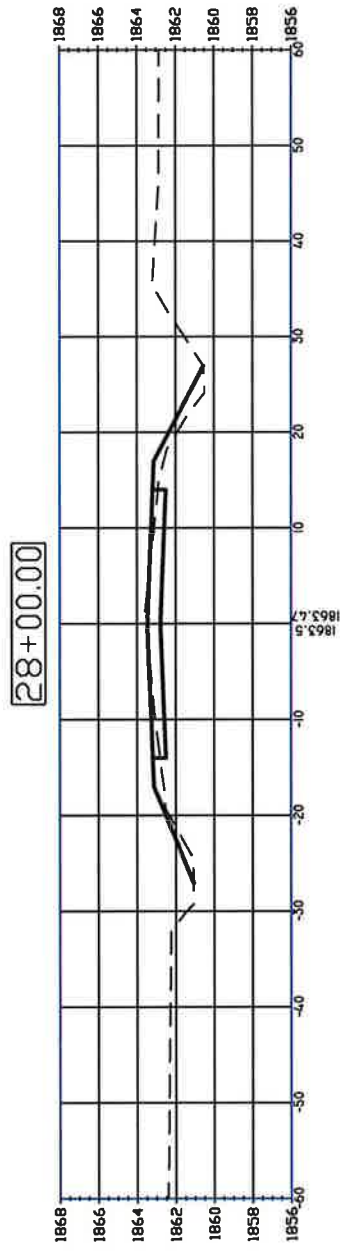
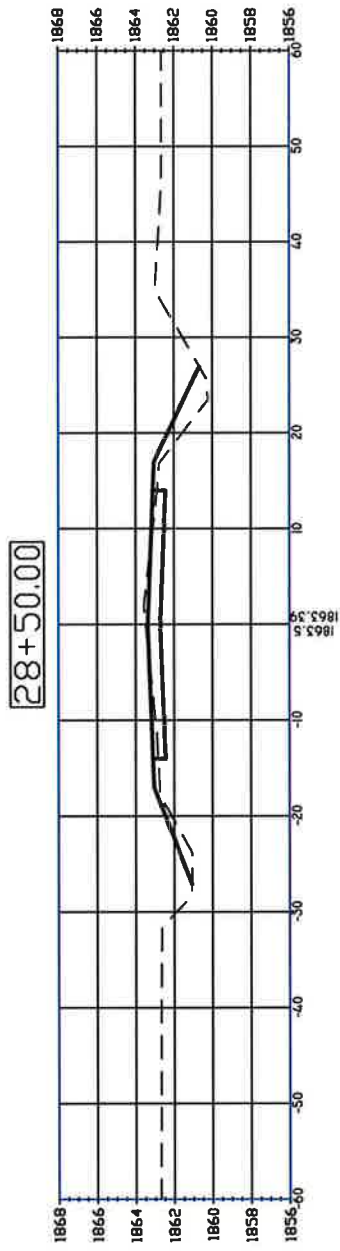
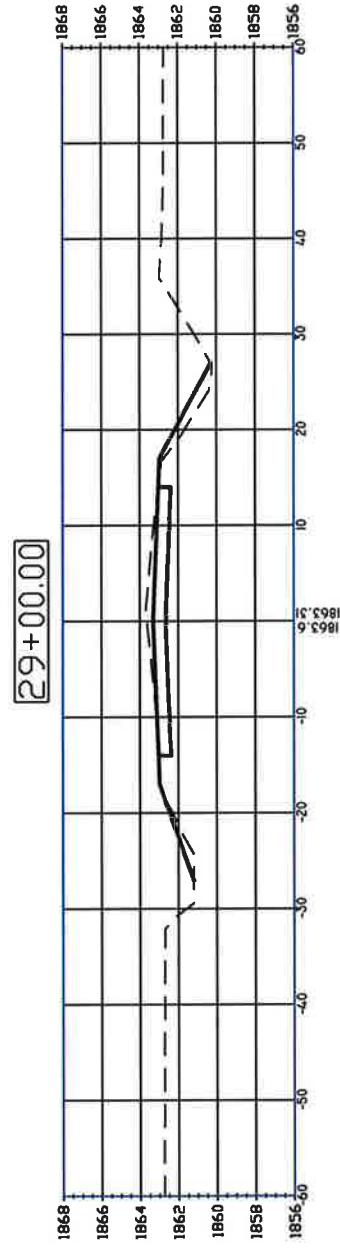
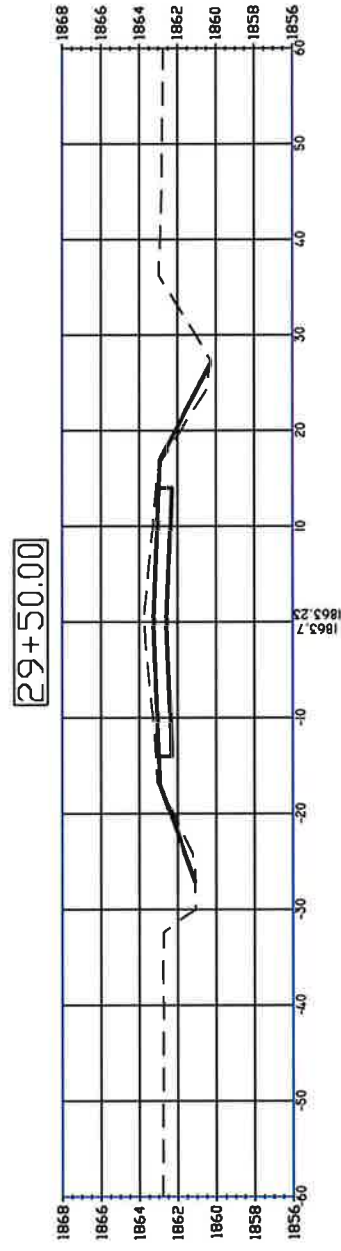
CROSS SECTIONS

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

REVISIONS		SURV. BY:		MUL	
DATE	BY	DATE	BY	DATE	BY
08/15/12	MM	XX/XX/XX	MM	XX/XX/XX	MM
				07/06/2012	MM
					MM
					MM
					MM
					MM

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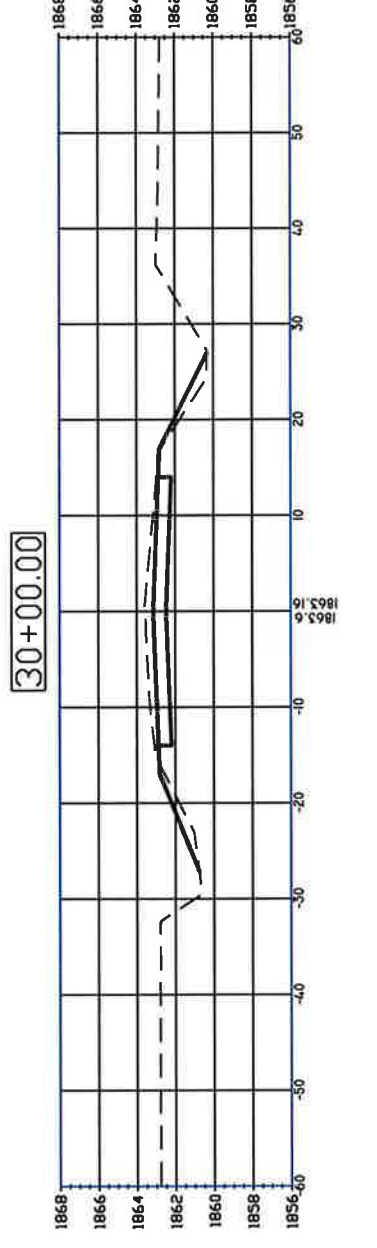
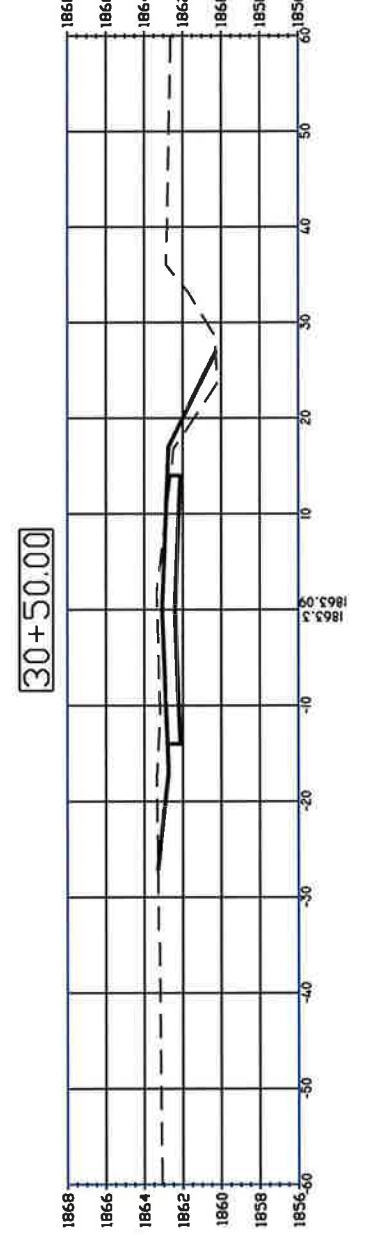
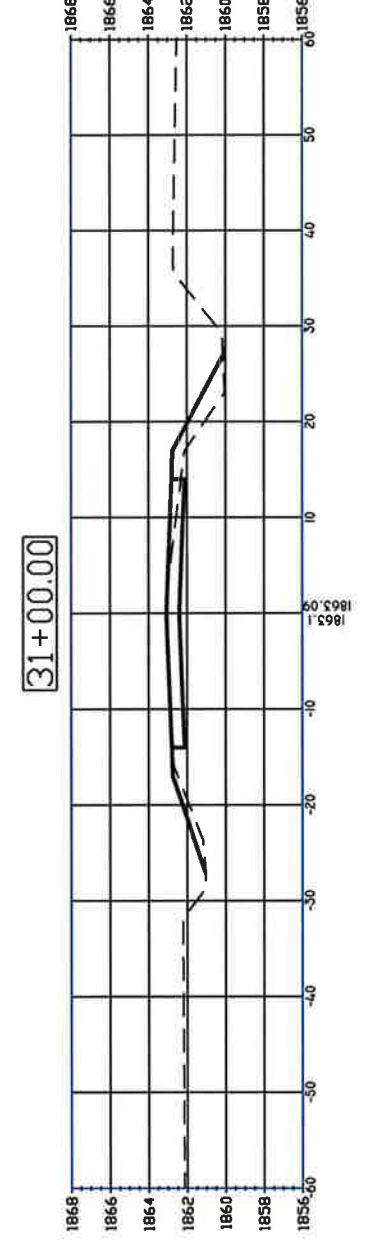
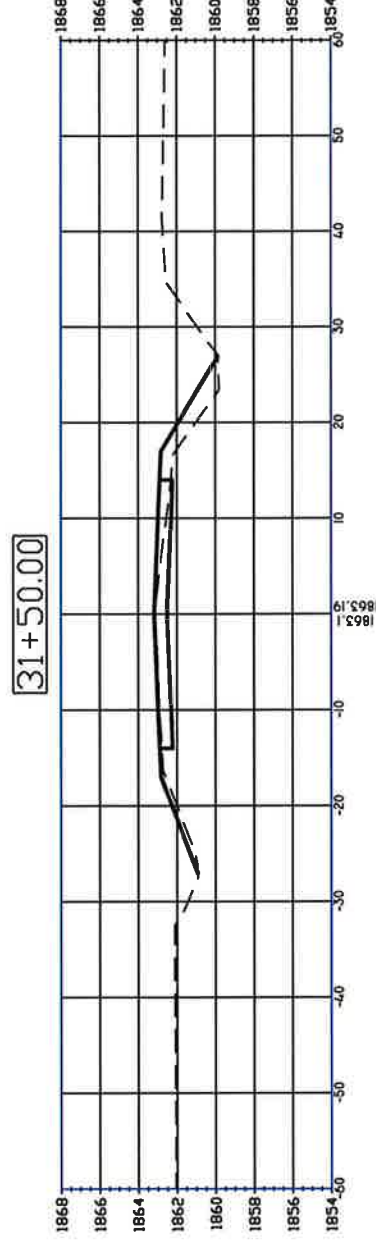
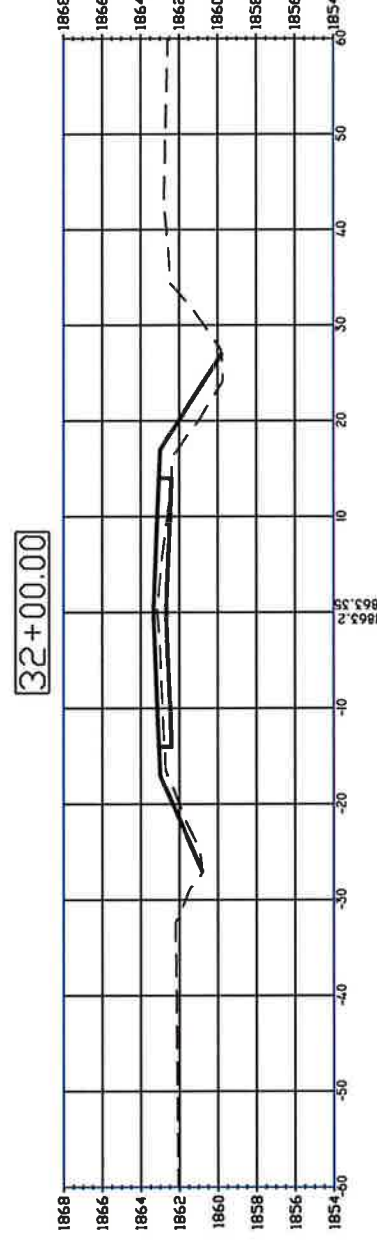
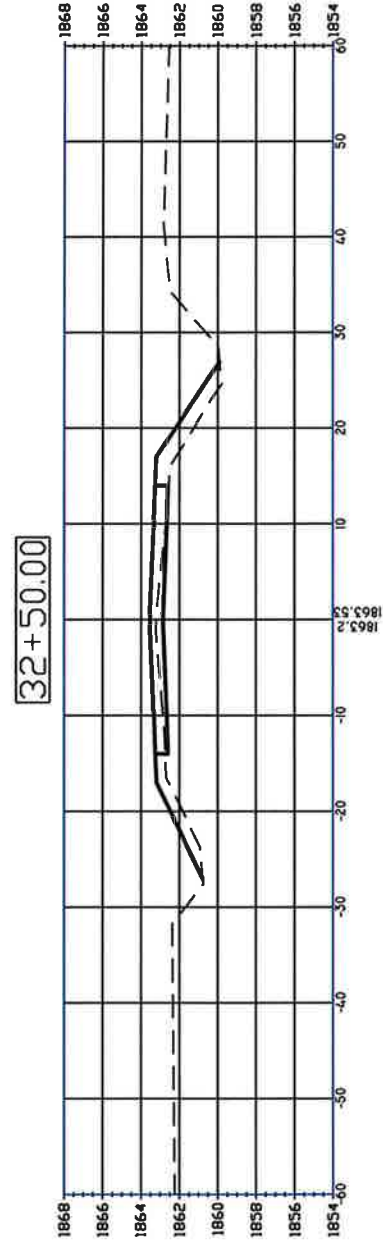
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DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DATE	BY
08/16/12	PWL	REVISE	CENTER LINE GRADE & QUANTITIES	07/06/2012	PWL	07/06/2012	PWL
					CHK. BY:	08/13/12	KK
					DATE:	08/13/12	KK
					APPR. BY:	02-11-2013	KK
					DATE:	02-11-2013	KK

CROSS SECTIONS

BLAINE ST PAVING -WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

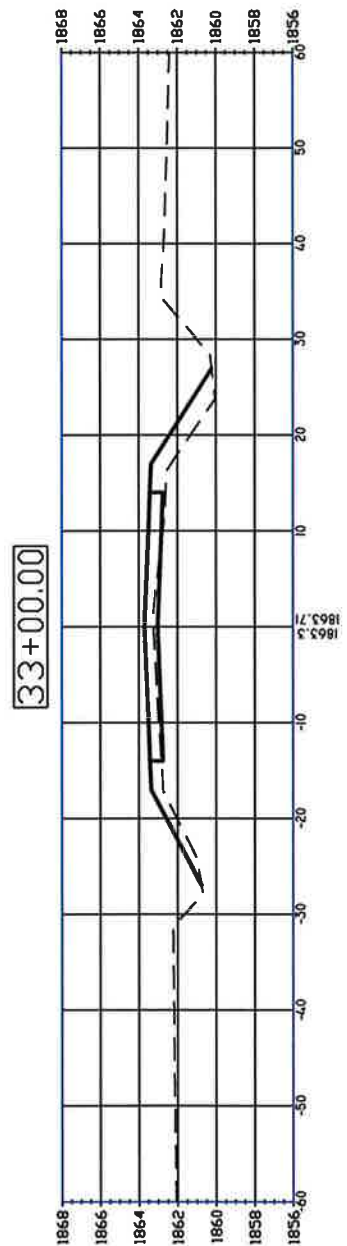
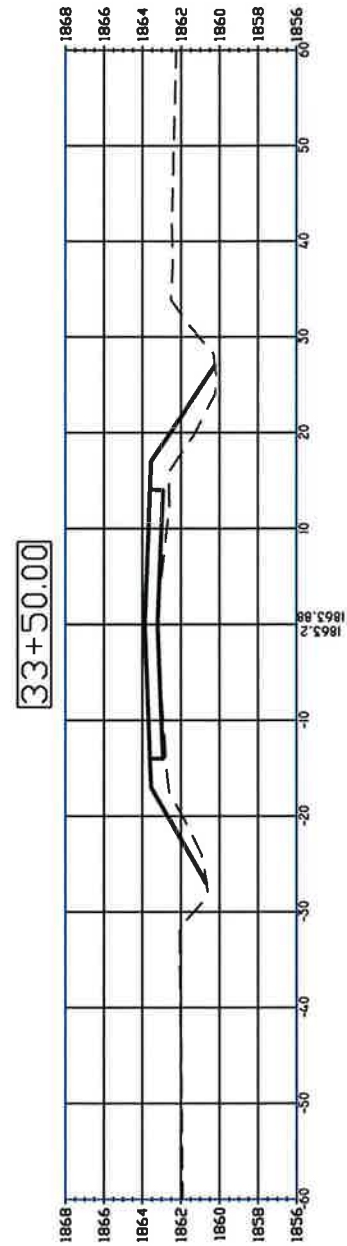
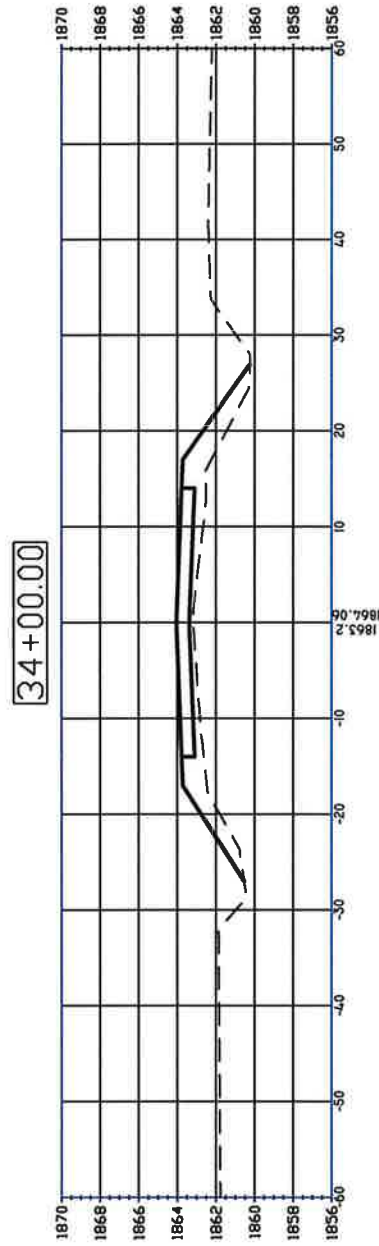
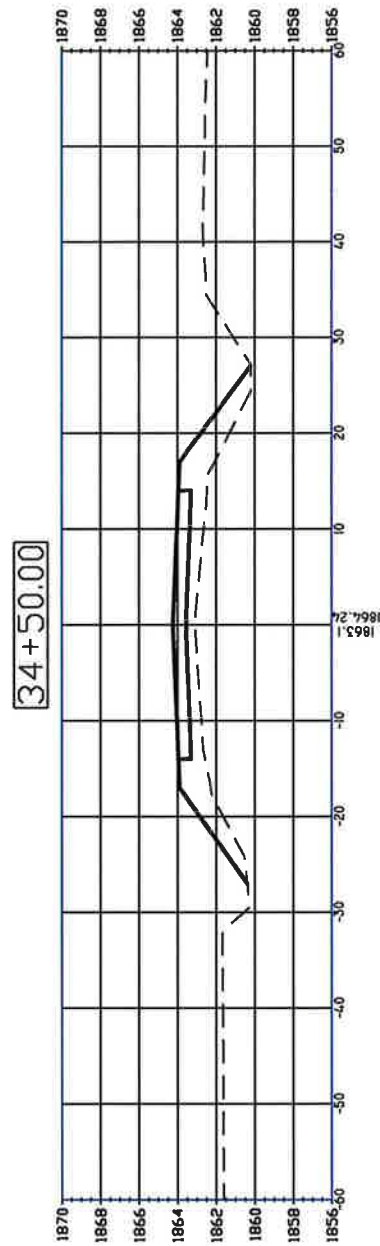
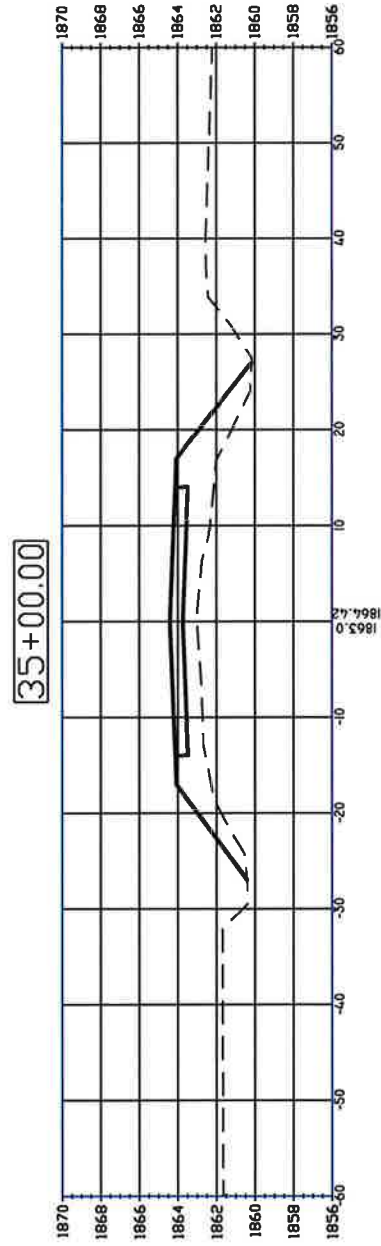
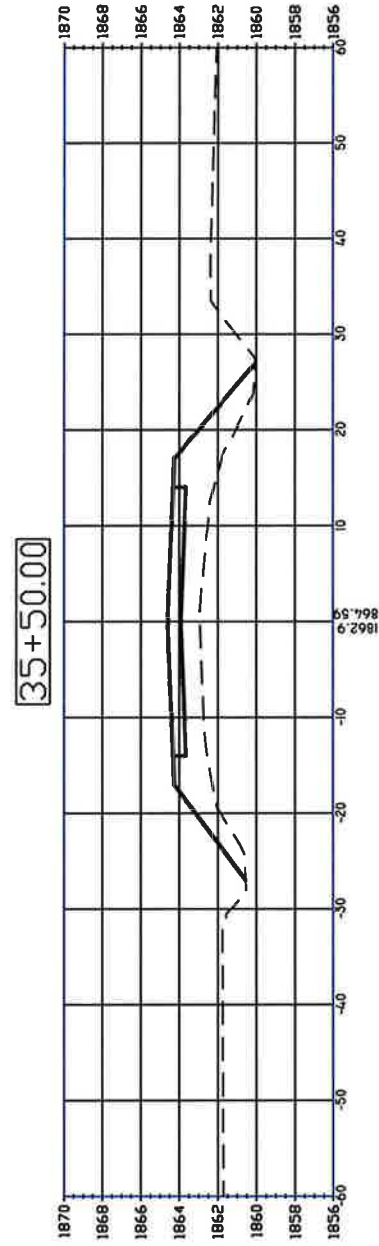


DRAWING NO.:
Blaine-Base Dwg
24

CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

REVISIONS		SURV. BY: MWL	
DATE	BY	DATE	
08/16/12	MWL	XX/XX/XX	MWL
		DR. BY:	DR.
		CHK. BY:	CHK.
		DATE:	DATE:
		APPR. BY:	APPR.
		DATE:	DATE:

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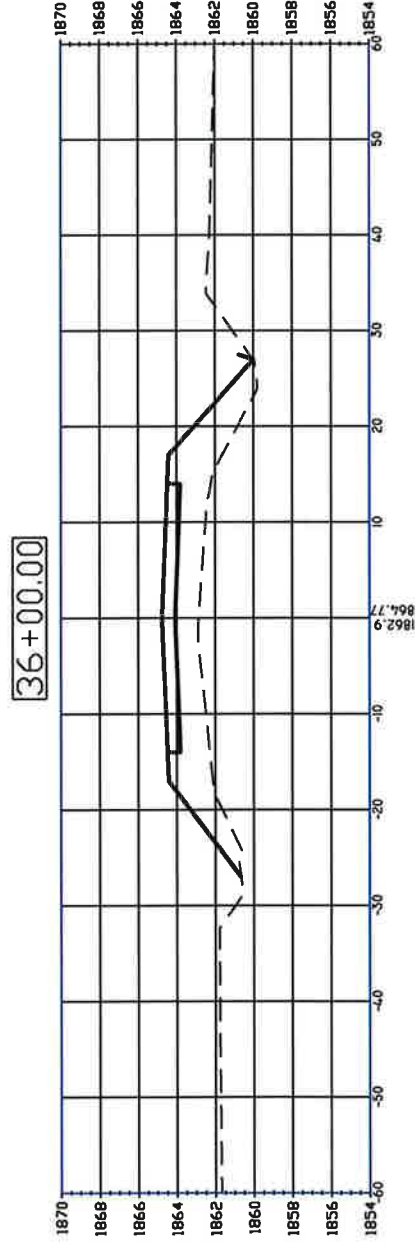
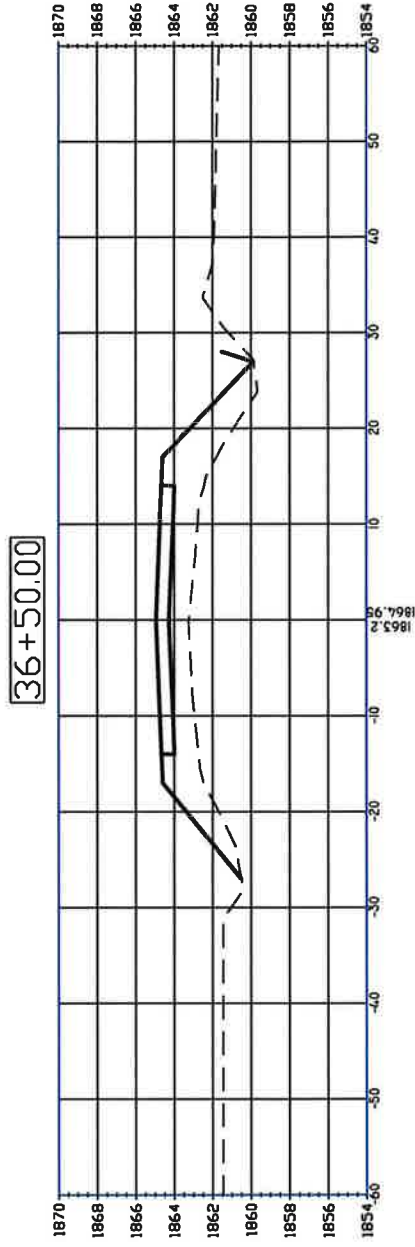
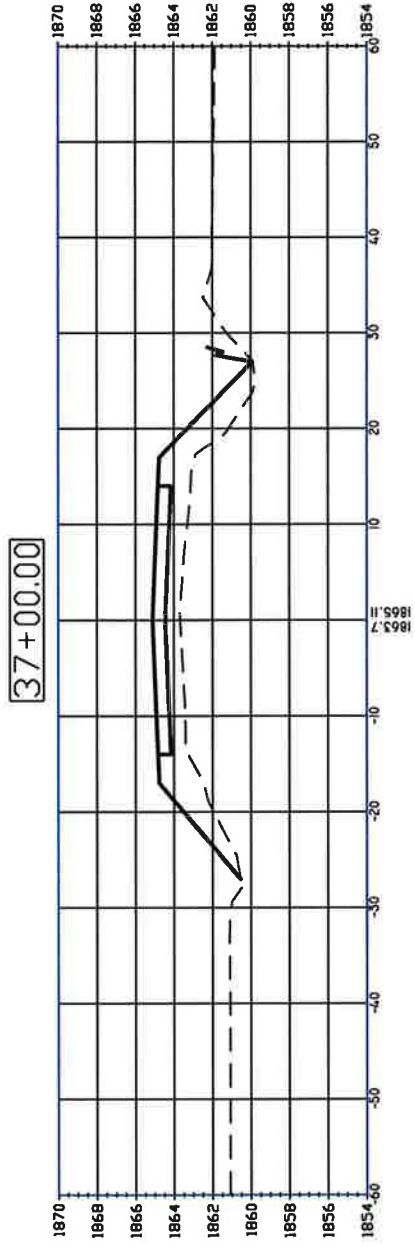
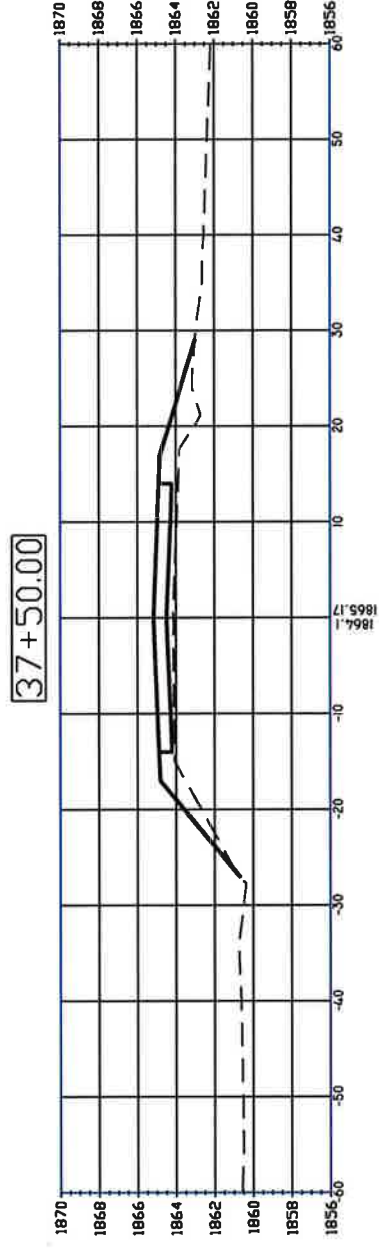
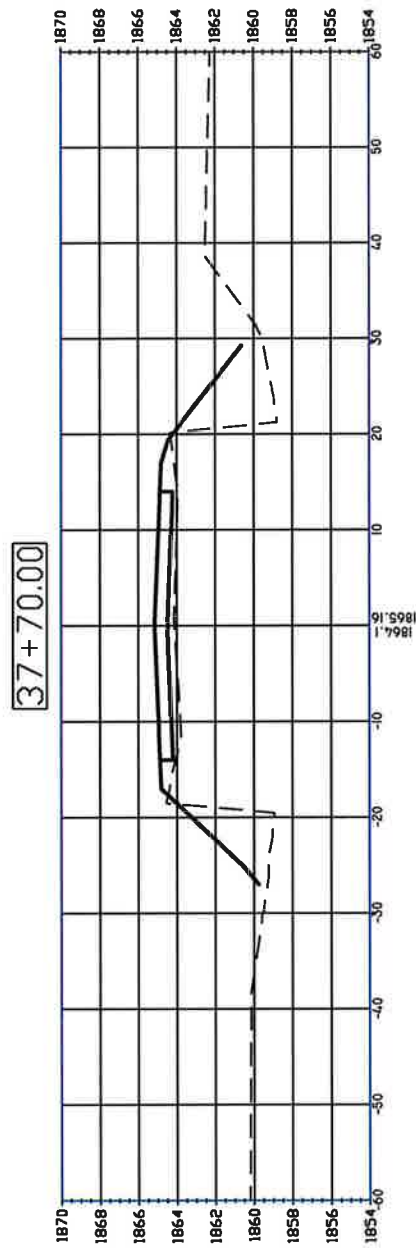
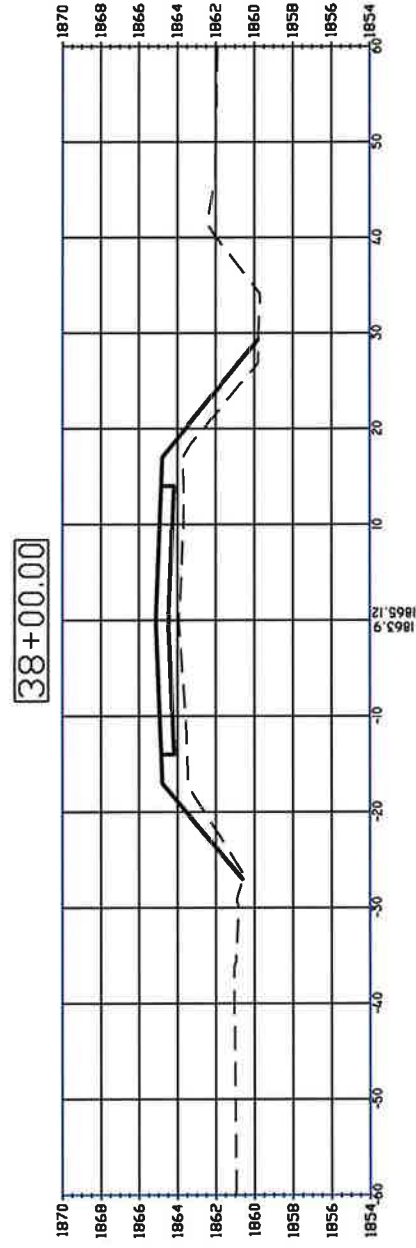


DRAWING NO.:
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CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

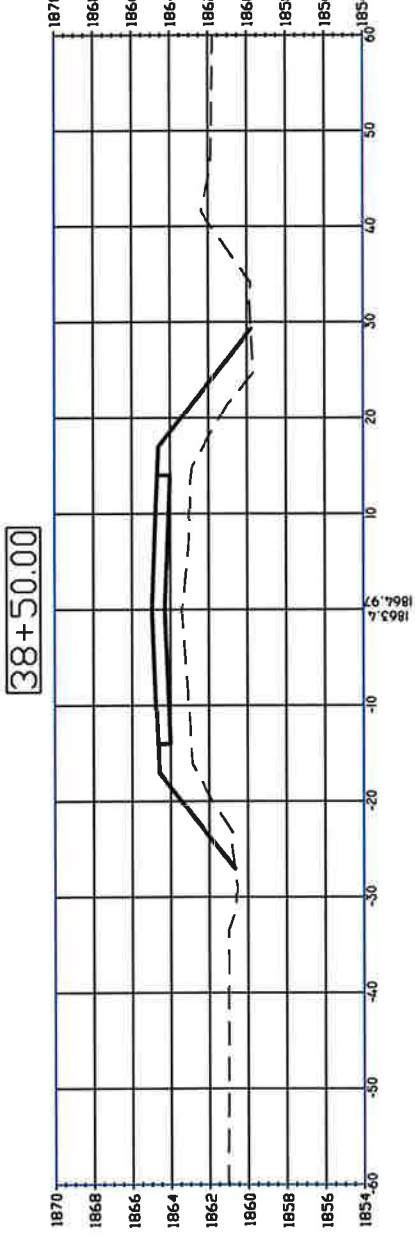
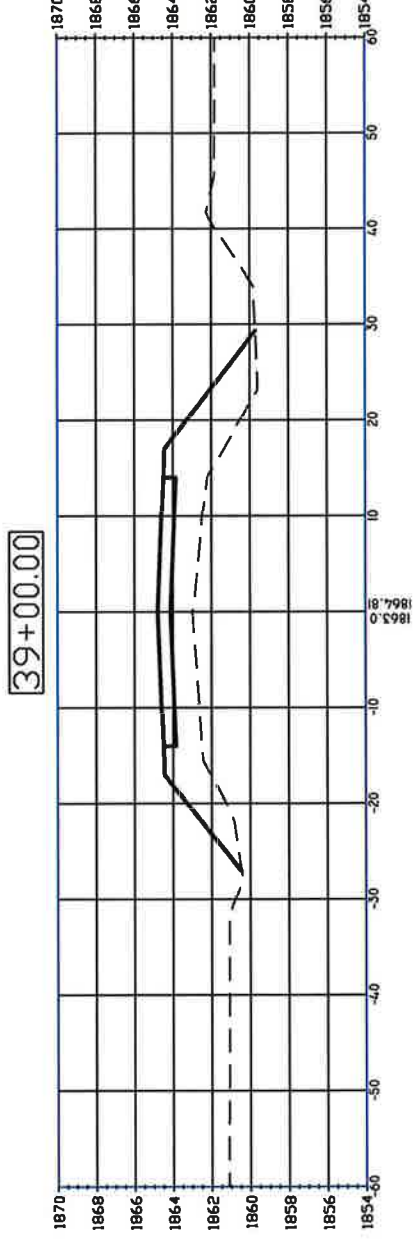
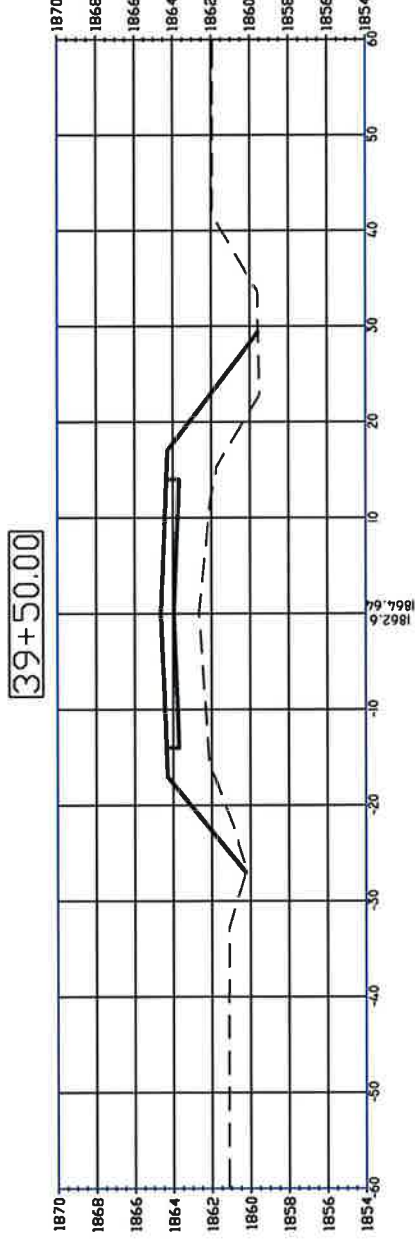
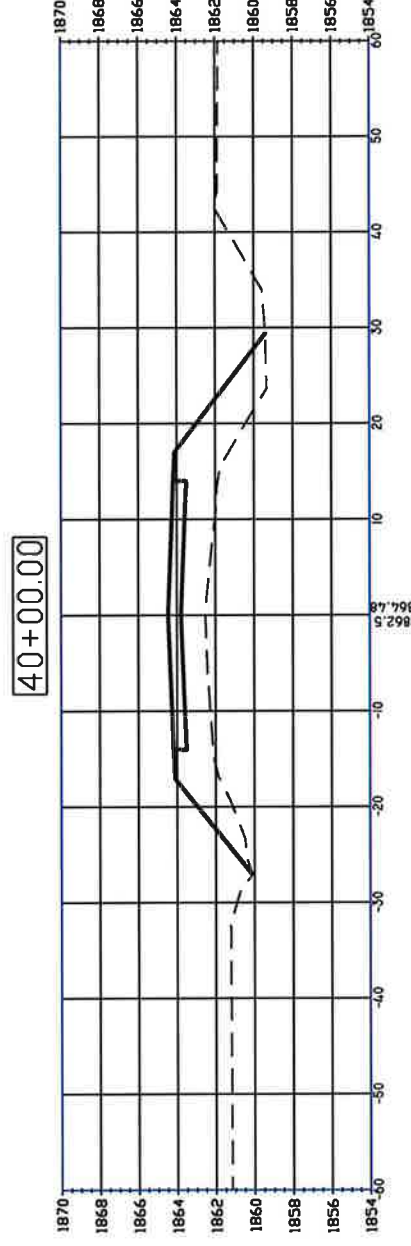
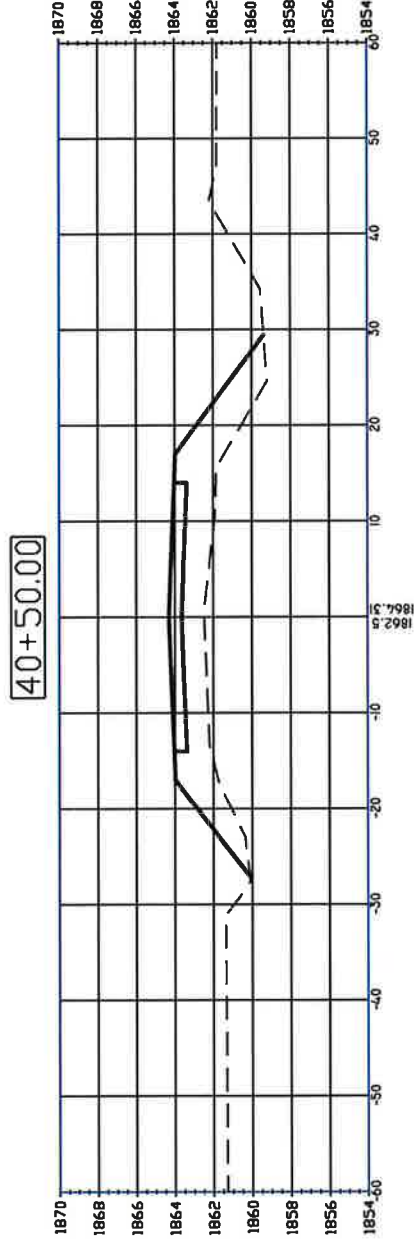
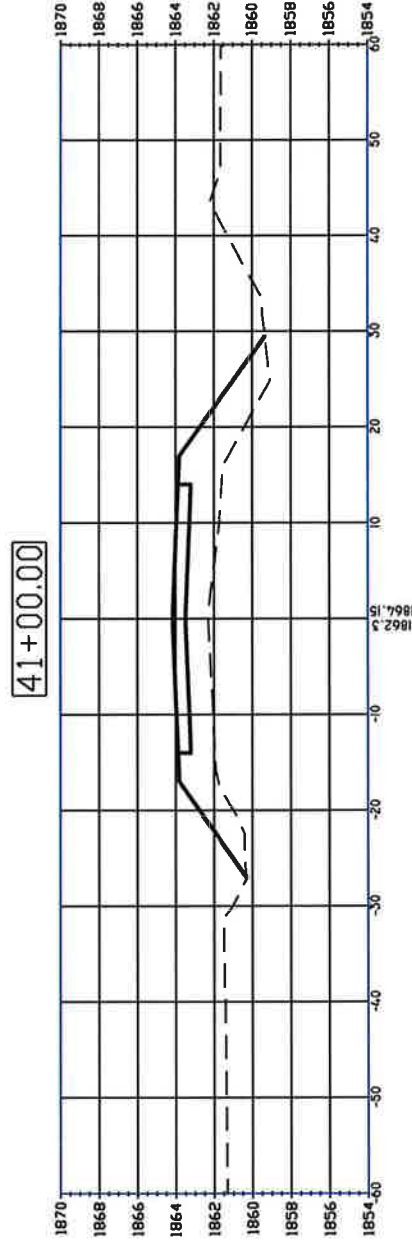
DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DATE	BY
07/15/12	MWL	REVISE	CENTER LINE GRADE & QUANTITIES	07/06/2012	MWL	07/06/2012	KK
							KK
							KK
							KK
							KK

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DATE	BY	REVISIONS	DESCRIPTION	QUANTITIES	DR.	BY:	DATE	CHK.	BY:	DATE	APPR.	BY:	DATE
08/16/12	PHL		REVISE CENTER LINE GRADE		DR.	PHL	07/06/2012	KK	PHL	08/13/12	KK	PHL	02-11-2013

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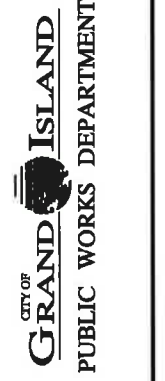


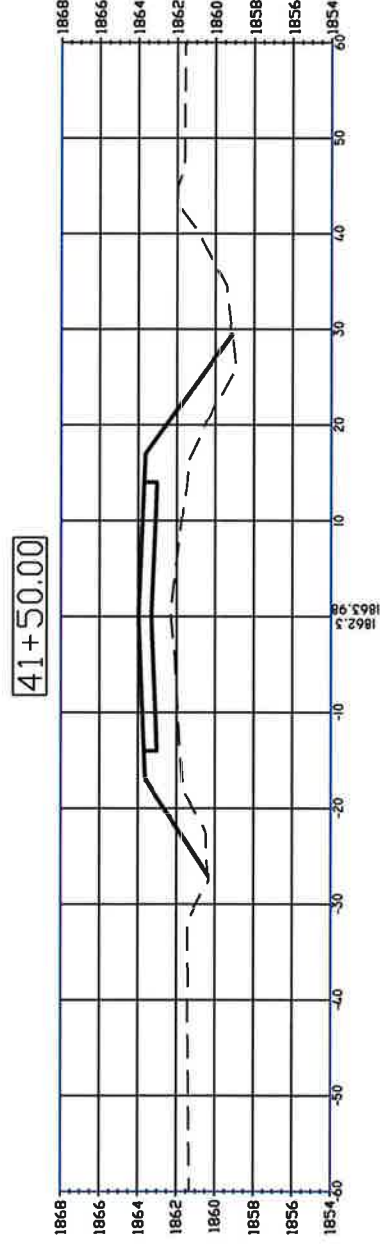
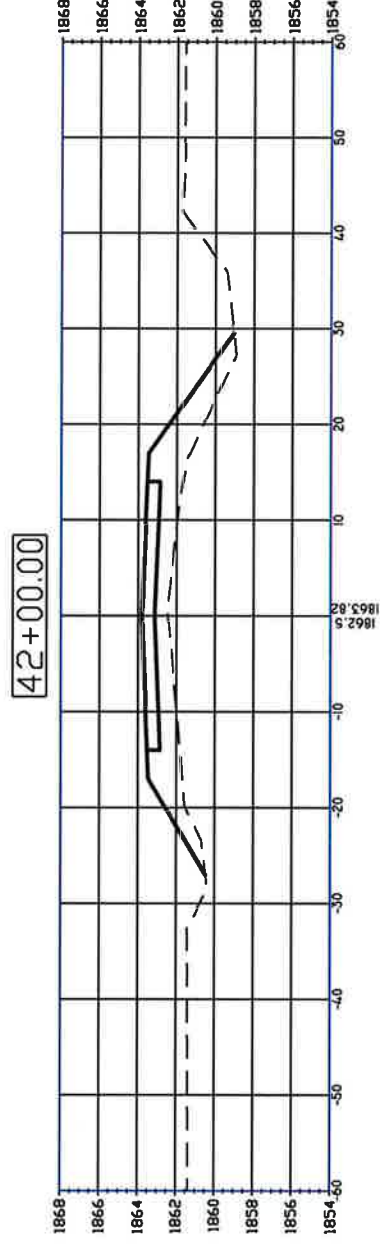
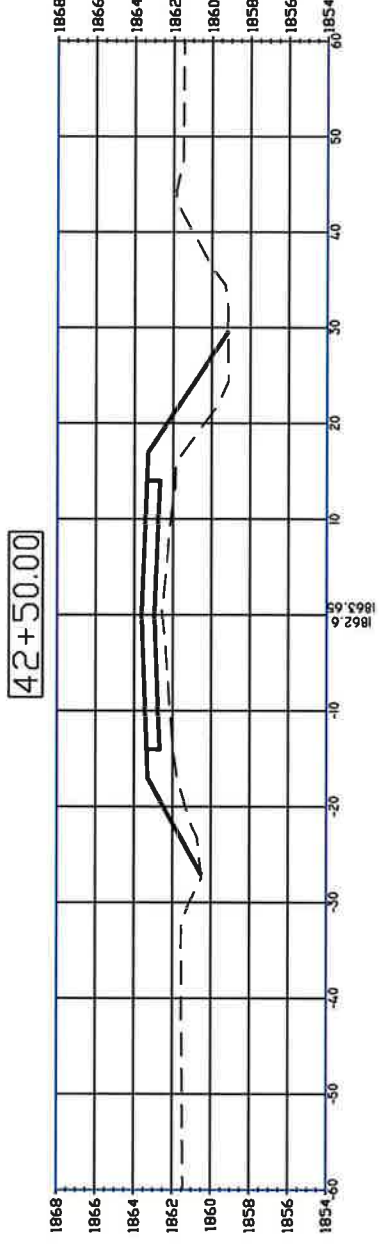
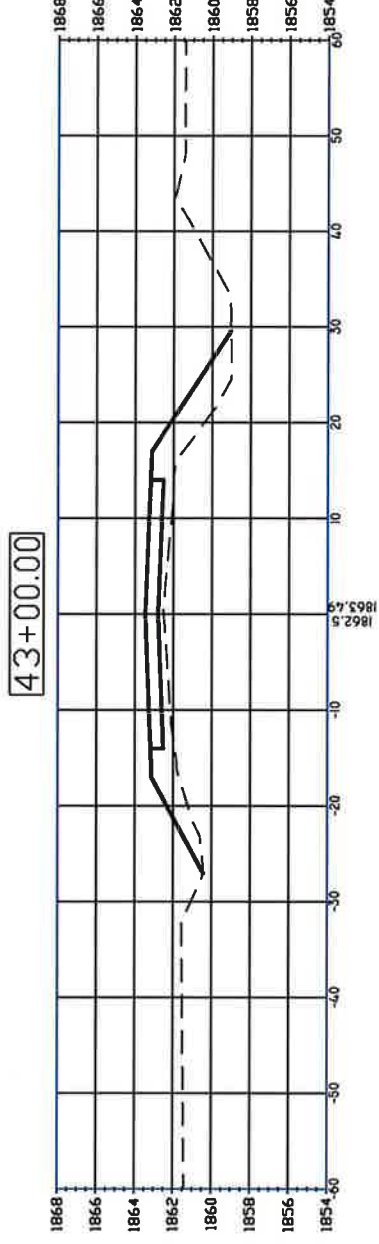
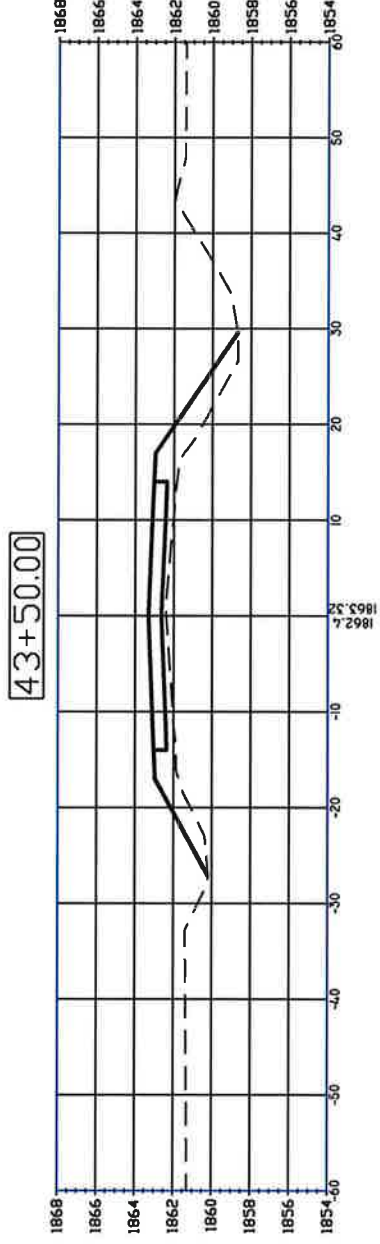
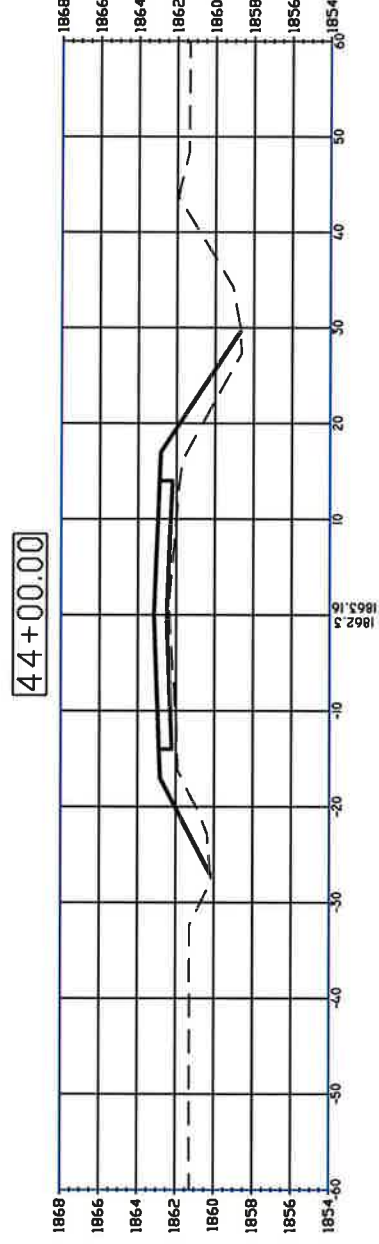
DATE	BY	REVISIONS	DATE	BY	DATE	BY
08/15/12	MWL	REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	MWL	07/06/2012	MWL

CROSS SECTIONS
BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

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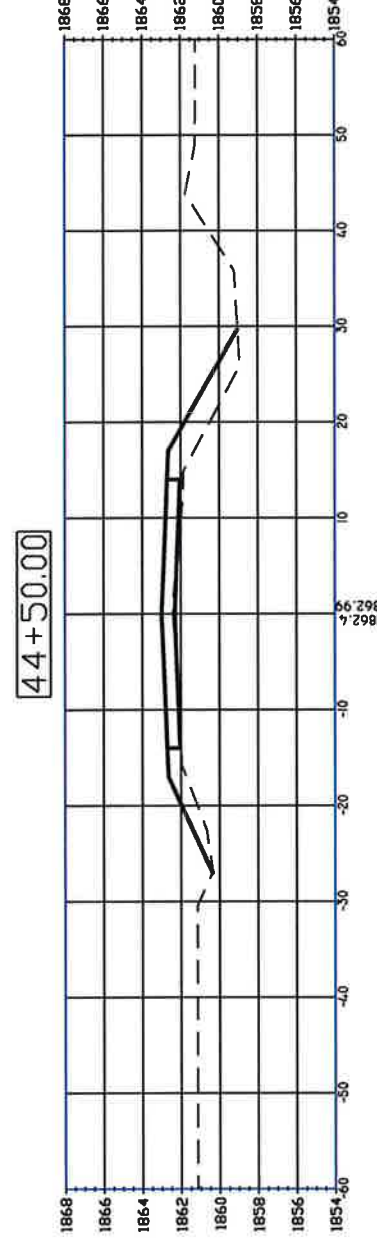
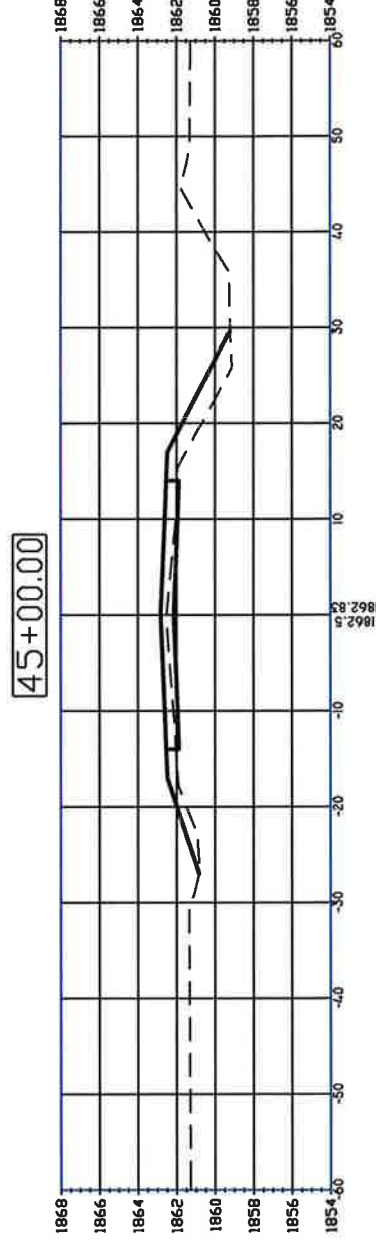
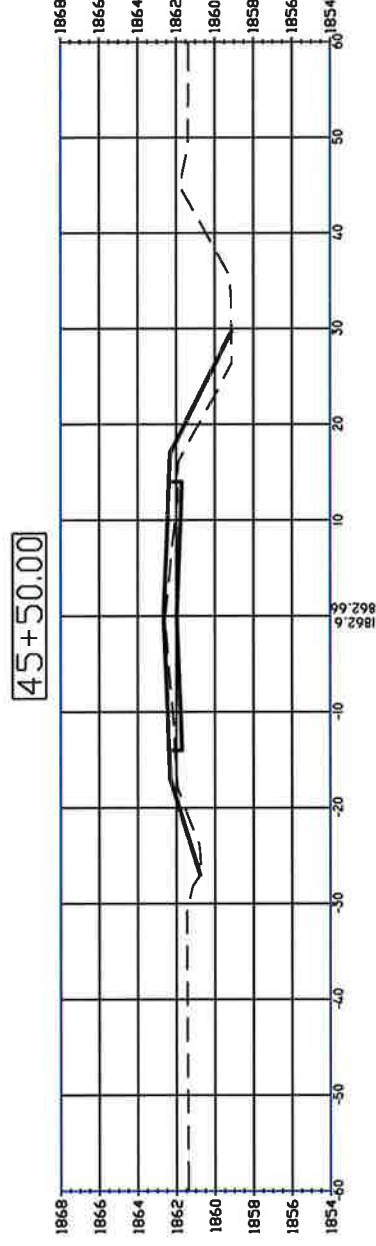
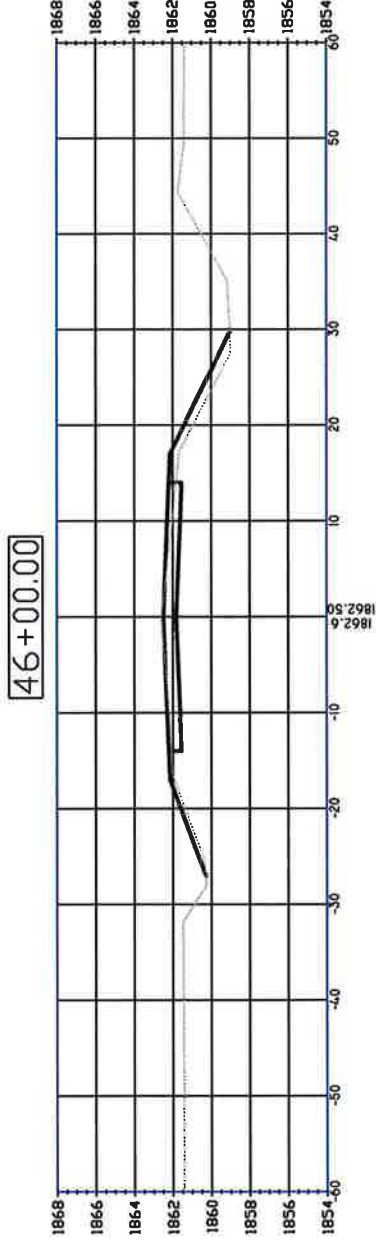
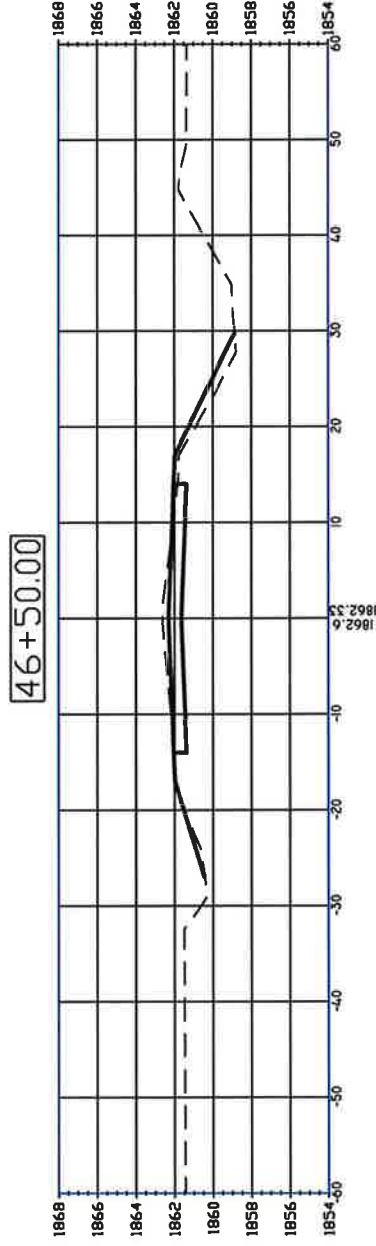
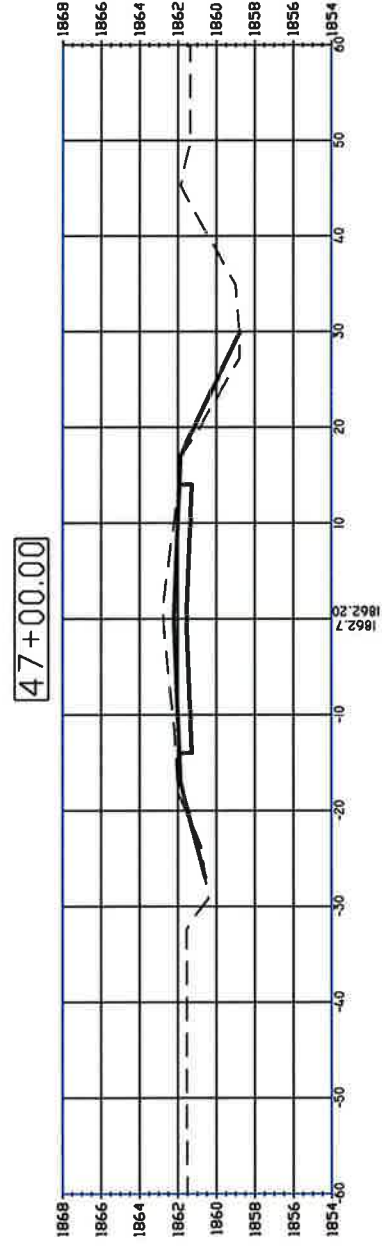
CROSS SECTIONS

BLAINE ST PAVING - WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DATE	BY
08/16/12	MHL		REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	MHL	07/06/2012	MHL

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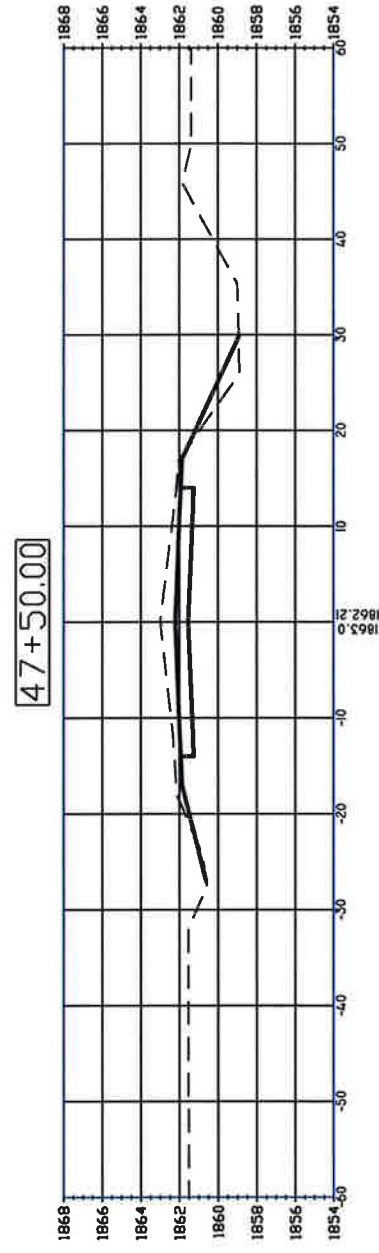
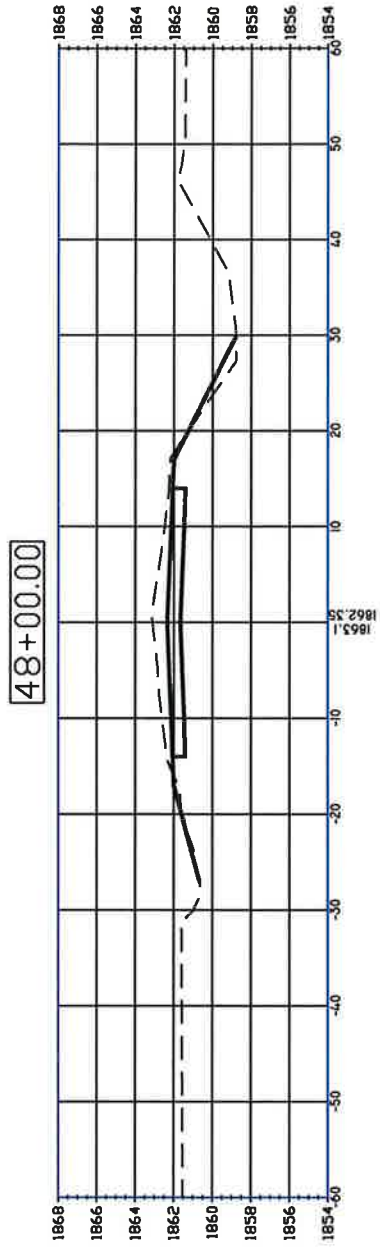
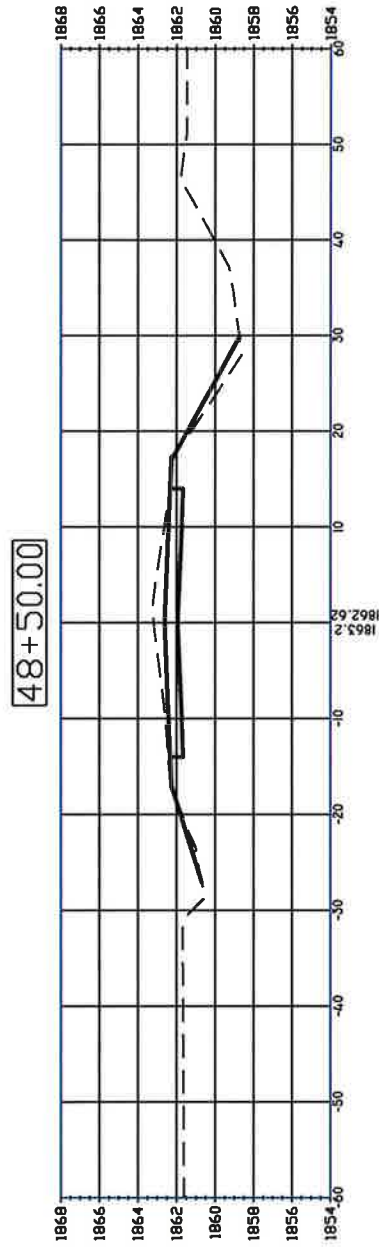
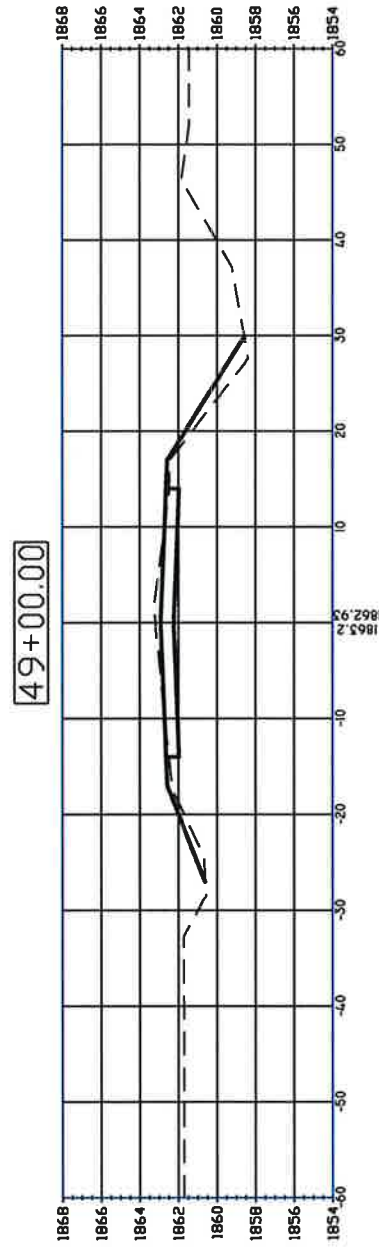
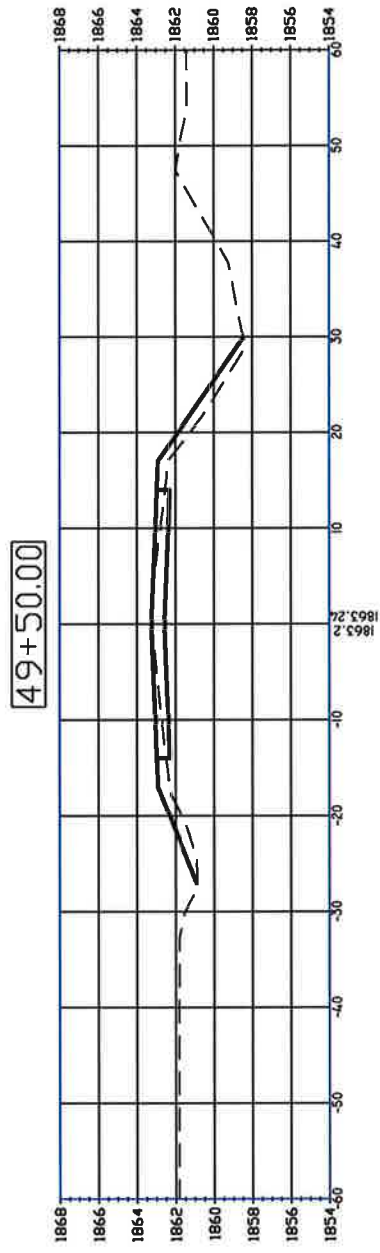
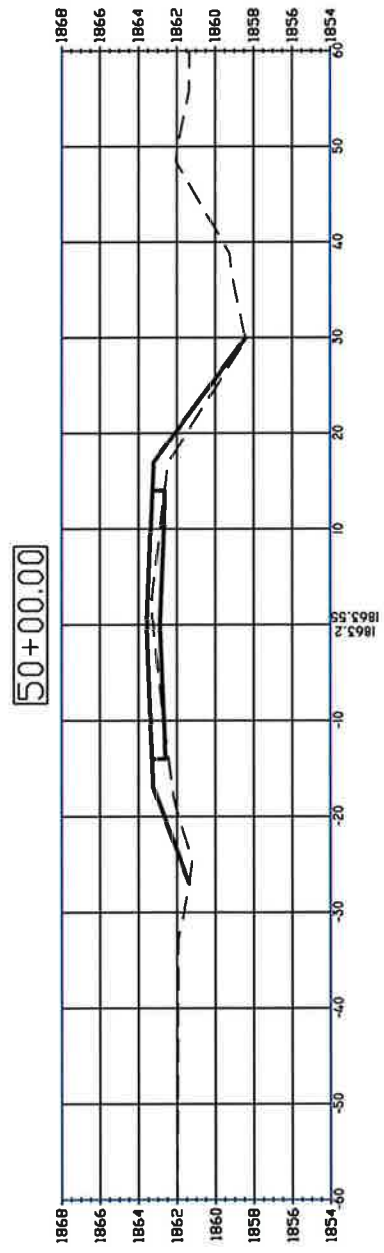
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GRAND ISLAND, NEBRASKA

DRAWING NO.:
Blaine-Base Dwg

DATE	BY	REVISIONS	SURV. BY:	MIL
02/15/12	JML	REVISE CENTER LINE GRADE & QUANTITIES	DATE: XX/XX/XX	MIL
			DR. BY: 07/06/2012	KK
			CHK. BY: 08/03/12	KK
			DATE: 02-11-2013	KK
			APPR. BY:	KK
			DATE:	02-11-2013

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GRAND ISLAND, NEBRASKA

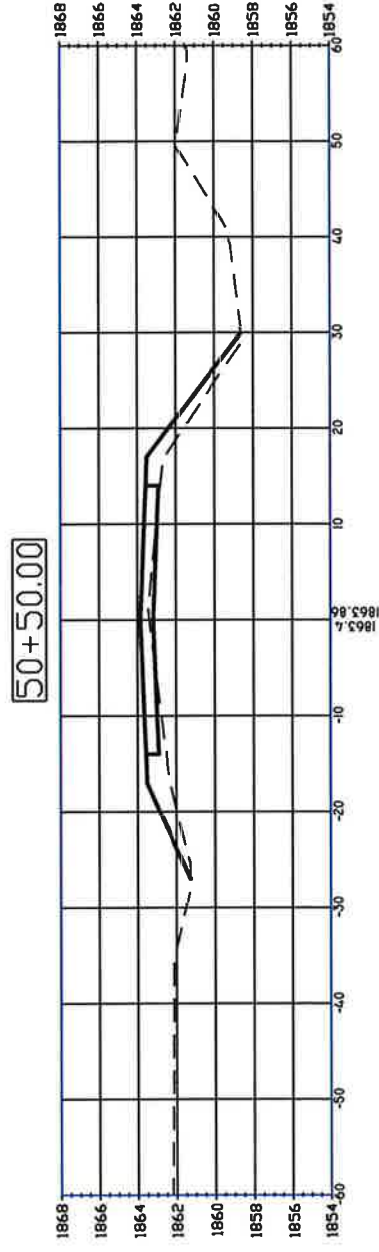
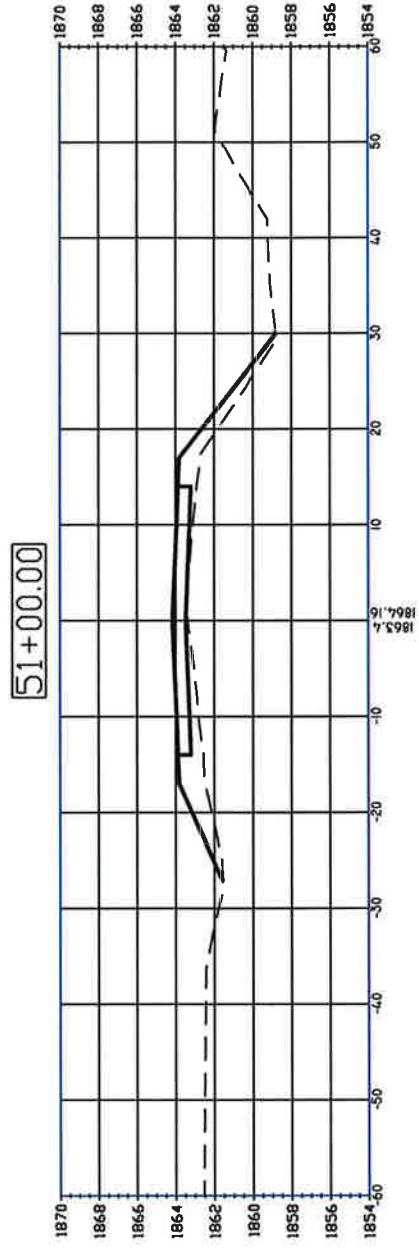
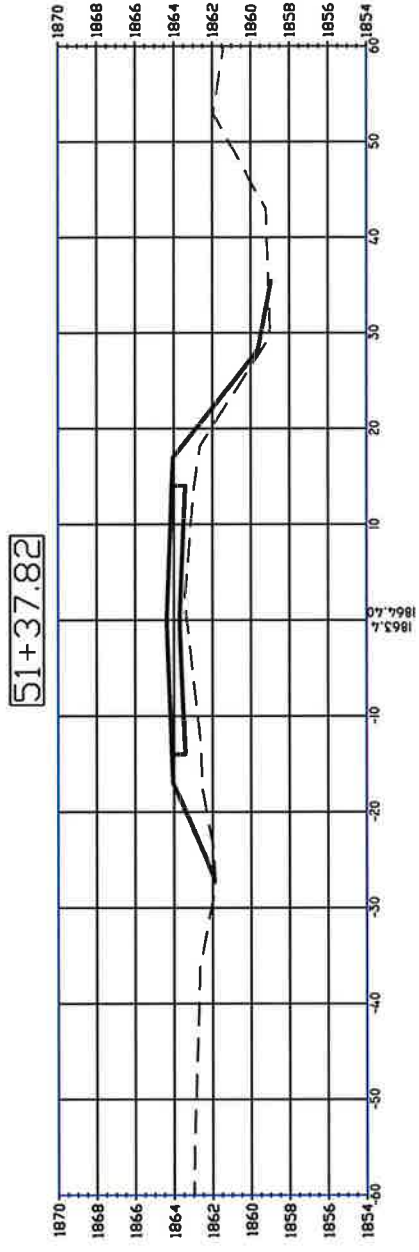
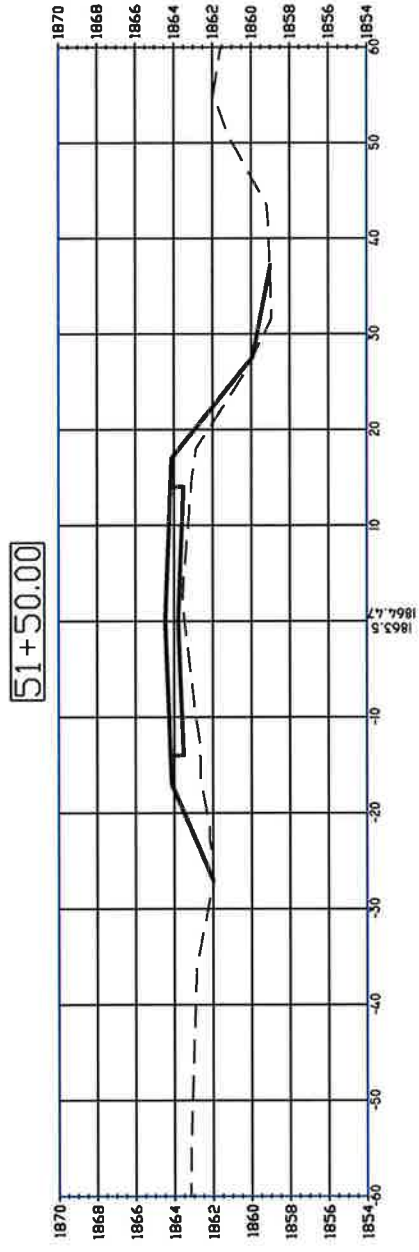
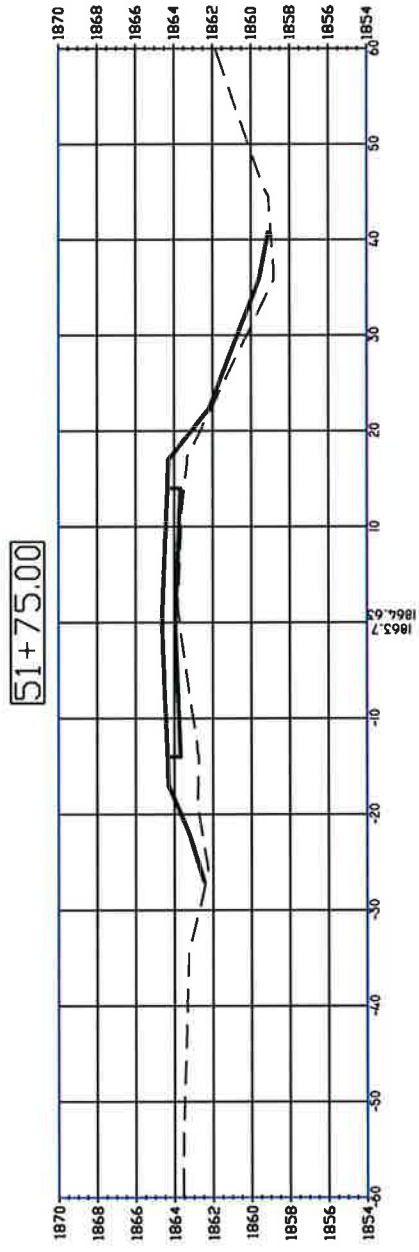
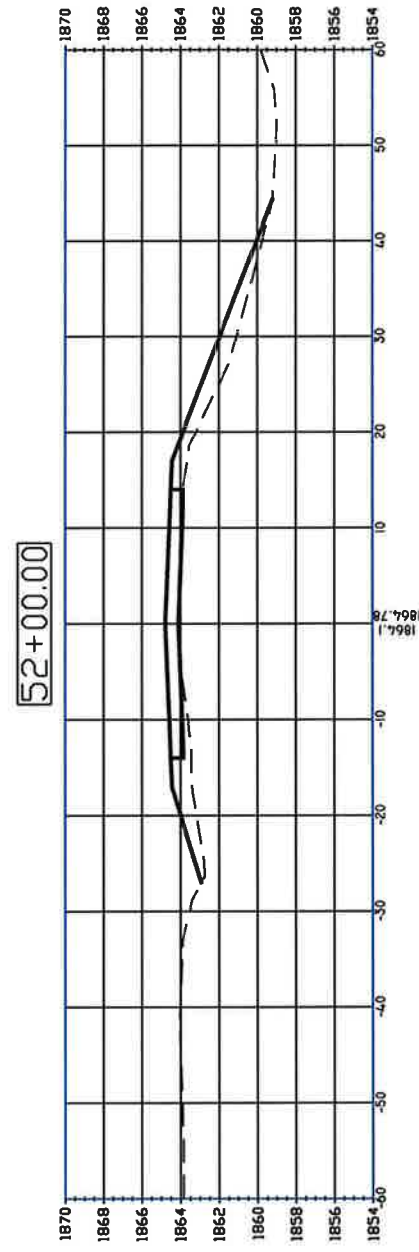
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DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DATE	BY
08/16/12	PWL		REVISE CENTER LINE GRADE & QUANTITIES	07/06/2012	PWL	07/06/2012	PWL

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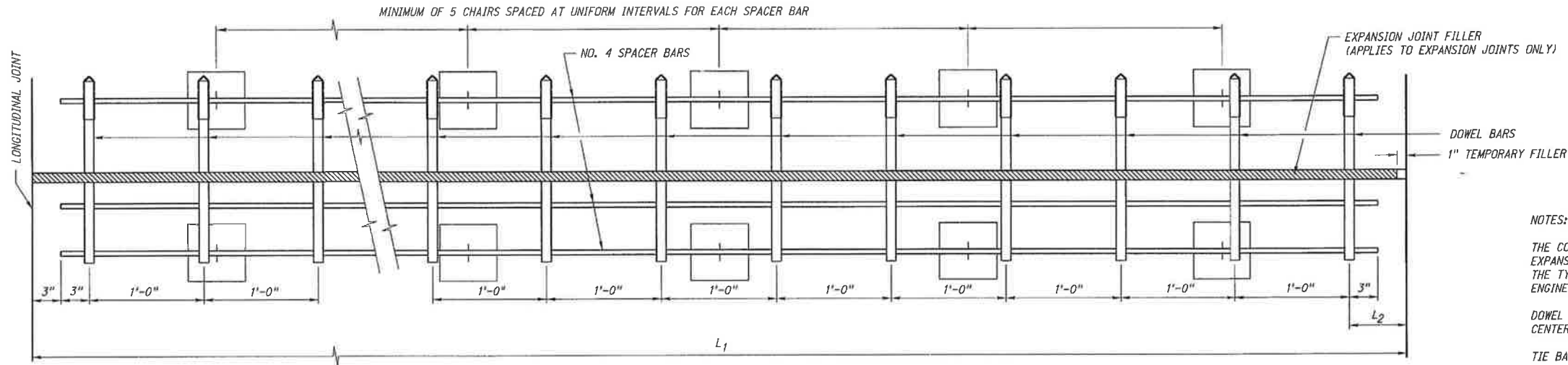
CITY OF GRAND ISLAND PUBLIC WORKS DEPARTMENT



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DATE	BY	REVISIONS	SUPV. BY:	MWL
08/15/12	MWL	REVISION CENTER LINE GRADE & QUANTITIES	DATE:	XX/XX/XX
			DR. BY:	MWL
			DATE:	07/06/2012
			CHK. BY:	KK
			DATE:	08/13/12
			APPR. BY:	KK
			DATE:	02-11-2013

CROSS SECTIONS
BLAINE ST PAVING -WILDWOOD DR. TO SCHIMMER DR.
GRAND ISLAND, NEBRASKA



DOWEL BAR HEIGHT AND DIAMETER			
PAVEMENT THICKNESS (T)	MINIMUM BAR DIA.	DOWEL BAR HEIGHT (T/2)	SKEW TOLERANCE
LESS THAN 10"	1 1/2"	T/2 ± 1/2"	1/4"
10" OR MORE	1 1/2"	T/2 ± 1/2"	1/4"

ASSEMBLY PLAN

DOWEL BAR LOCATION TABLE				
L ₁	L ₂	L ₃	#BARS	DESCRIPTION
12'-0"	6"	5"	12	12'-0" PAVEMENT
15'-0"	2'-6"	2'-5"	13	15'-0" PAVEMENT (INCLUDES 3'-0" SHOULDER)
16'-0"	3'-6"	3'-5"	13	16'-0" PAVEMENT (INCLUDES 4'-0" SHOULDER)
16'-0"	6"	5"	16	16'-0" RAMP & LOOPS
≥14'-6"	1'-6"	1'-5"	VARIES	PAVEMENT WITH CURB
≥14'-6"	2'-6"	2'-5"	VARIES	PAVEMENT WITH CURB
* ≥6'-0"	6"	5"	VARIES	IRREGULAR AREAS (WIDEN, FILLETS, GORE)

NOTES:
 THE CONTRACTOR MAY SUBSTITUTE OTHER DESIGNS FOR EXPANSION AND CONTRACTION JOINT SUPPORTS IN LIEU OF THE TYPE SHOWN WITH PRIOR WRITTEN APPROVAL BY THE ENGINEER.

DOWEL BARS SHALL BE A MINIMUM OF 17 3/4" IN LENGTH, CENTERED ON JOINTS AND BE SMOOTH BARS.

TIE BARS SHALL BE DEFORMED BARS.

FOR LOAD TRANSFER DEVICES AT EXPANSION JOINTS IN LANES OTHER THAN THE LANES SHOWN, MAINTAIN THE SPACING OF THE 1'-6" DOWEL BARS AT 1'-0" INTERVALS.

THE ENDS OF THE NO. 4 SPACER BARS SHALL NOT BE LESS THAN 3" FROM THE EDGES OF THE PAVEMENT OR THE LONGITUDINAL JOINT.

THE CONTRACTOR MAY USE A MACHINE FOR PLACING THE LONGITUDINAL TIE BARS IN LIEU OF THE TIE BAR PINS. IF A MECHANICAL TIE BAR PLACEMENT MACHINE IS NOT USED, TIE BAR PINS AS SHOWN SHALL BE USED.

TIE, DOWEL & SPACER BARS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

KEY TYPE LONGITUDINAL JOINTS AND TRANSVERSE CONSTRUCTION JOINTS SHALL BE EDGED WITH 1/4" R. AT TIME OF CONCRETE PLACEMENT.

CONCRETE PAVEMENT SHALL BE TINED UNLESS OTHERWISE SHOWN IN THE PLANS.

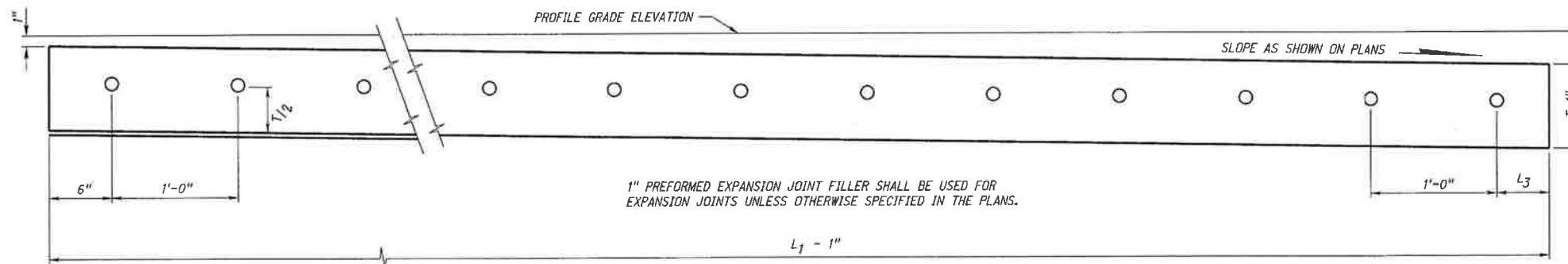
EXPANSION JOINTS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE PLANS.

PAVEMENT PLACED ADJACENT TO R.R. TRACKS REQUIRES 3-EXPANSION JOINTS SPACED AT APPROX. 49'-6" INTERVALS.

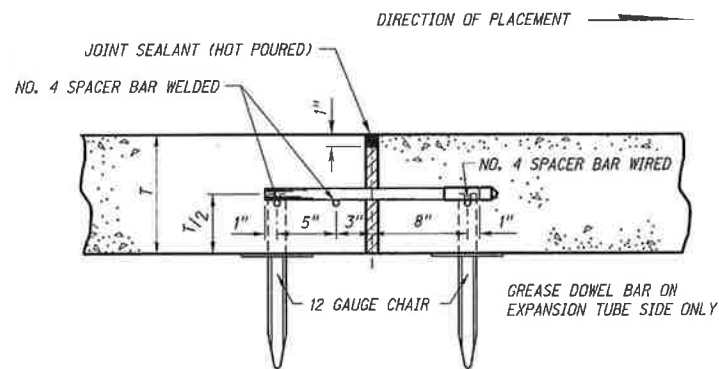
EXPANSION JOINTS SHALL NOT BE SKEWED.

T = PAVEMENT THICKNESS

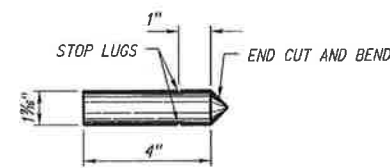
* THE DEPARTMENT REQUIRES THAT DOWEL BASKETS BE PLACED IN ALL CONTRACTION JOINTS WHICH ARE 6'-0" OR WIDER. THE DOWEL BASKETS SHALL BE PLACED TRANSVERSE TO THE DIRECTION OF THE PREDOMINANT TRAFFIC DIRECTION.



PREFORMED EXPANSION JOINT FILLER
(TO BE USED AT EXPANSION JOINTS ONLY)

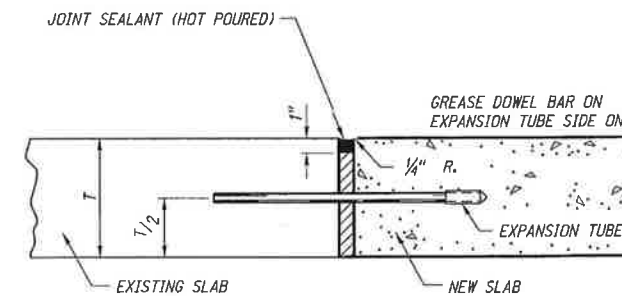


SECTION



EXPANSION TUBE

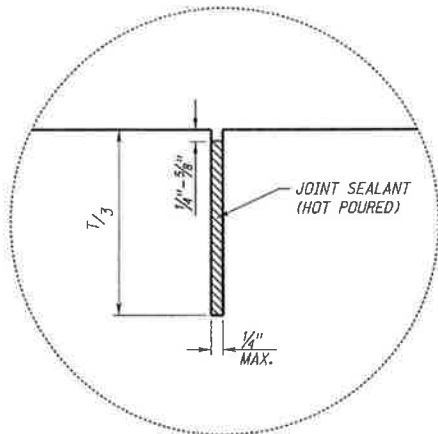
EXPANSION JOINT
(SUBSIDIARY)



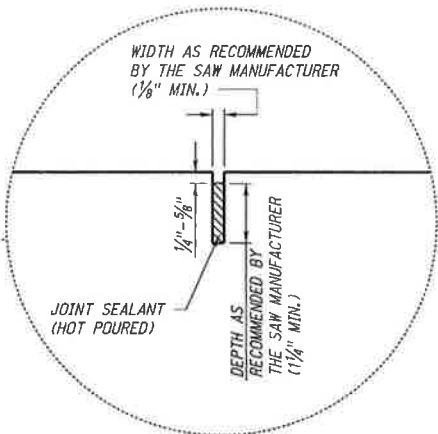
SECTION

NOTES:
 DOWEL BARS SHALL BE DRILLED TO A DEPTH OF 8" INTO EXISTING SLAB AND GROUTED.

R9	JUL. 11	JOINT; EARLY SAW CUT
R8	OCT. 10	CHANGED TITING INFORMATION
R7	MAR. 05	MULTIPLE CHANGES
REV. NO.	DATE	DESCRIPTION OF REVISION
NEBRASKA DEPARTMENT OF ROADS STANDARD PLAN NO. 329-R9 8 TO 16 INCH CONCRETE PAVEMENT		
	FHWA APPROVED:	
	W. A. Fiedler DATE: 3/20/2011	
ORIGINAL:		DATE:
OCTOBER 25, 1994		DATE:



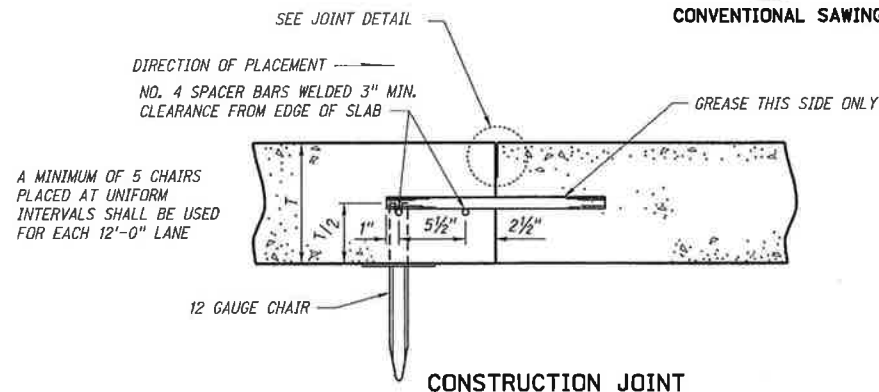
CONVENTIONAL SAWING



EARLY-SAW CUT

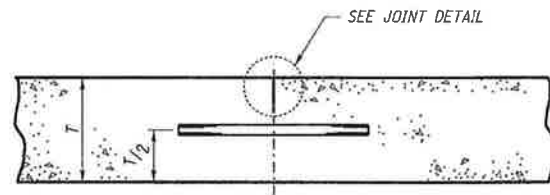
OR

JOINT DETAIL

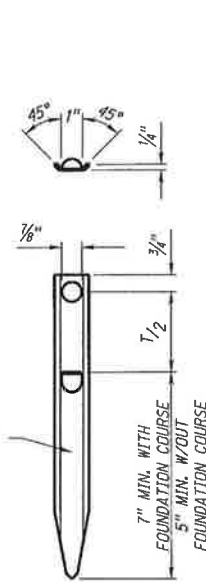


CONSTRUCTION JOINT

THE DOWEL BAR SPACING SHALL BE THE SAME AS SHOWN FOR THE EXPANSION JOINT. REFER TO BAR LOCATION TABLE AND THE DOWEL BAR HEIGHT AND DIAMETER TABLE ON SHEET 1 OF 4.

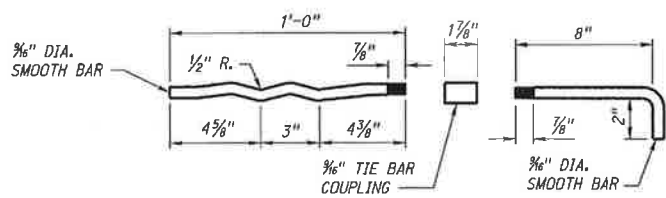


TIE BAR PIN

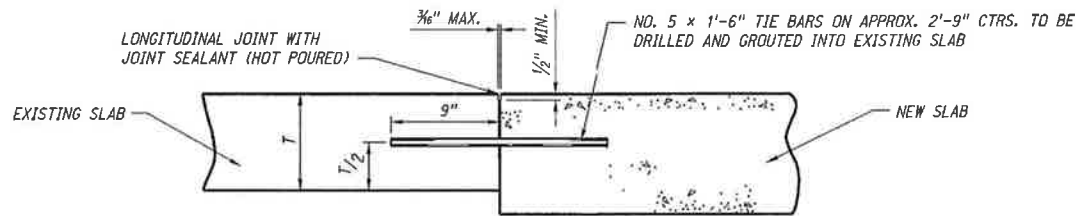


CHAIR

CONTRACTION JOINT

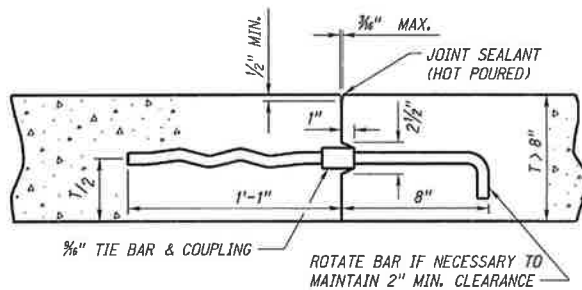


DETAILS OF "W" BAR



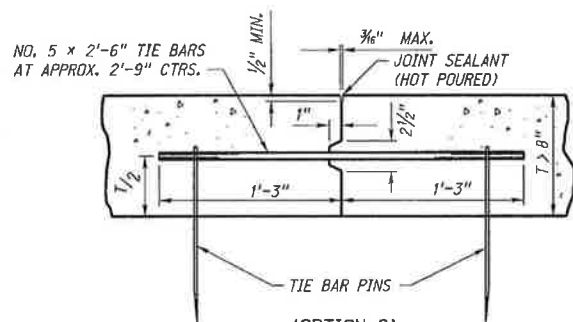
TIE BARS ARE TO BE INSTALLED WHERE NEW CONCRETE PAVEMENT IS PLACED ADJACENT TO EXISTING CONCRETE PAVEMENT

DETAILS OF TIE BAR



(OPTION 1)
KEY TYPE

NO. 5 HOOK AND W-BARS AT APPROX. 2'-9" CTRS. OR 3/4" HOOK AND W-BARS AT APPROX. 2'-9" CTRS.

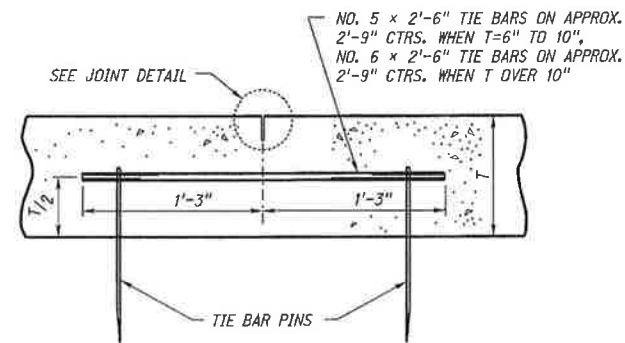


(OPTION 2)
KEY TYPE

KEY TYPE JOINT SHALL BE USED ON ALL LONGITUDINAL CONSTRUCTION JOINTS WHEN THE ADJACENT LANE IS NOT PLACED AT THE SAME TIME

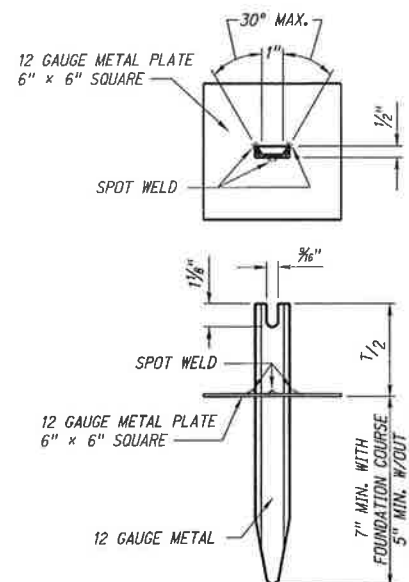
LONGITUDINAL JOINTS

NOTE:
NO TIE BARS SHALL BE CLOSER THAN 1'-3" TO A TRANSVERSE JOINT. ALL LONGITUDINAL JOINTS BETWEEN LANES AND BETWEEN LANES AND SHOULDERS MUST BE TIED. MEDIAN SHOULD NOT BE TIED.



SAWED

WHEN TWO ADJACENT LANES ARE PLACED AT THE SAME TIME, THE LONGITUDINAL JOINT COMMON TO THE LANES SHALL BE SAWED



NOTE: T = PAVEMENT THICKNESS

R9	JUL. 11	JOINT: EARLY SAW CUT
R8	OCT. 10	CHANGED TYPING INFORMATION
R7	MAR. 05	MULTIPLE CHANGES
REV. NO.	DATE	DESCRIPTION OF REVISION

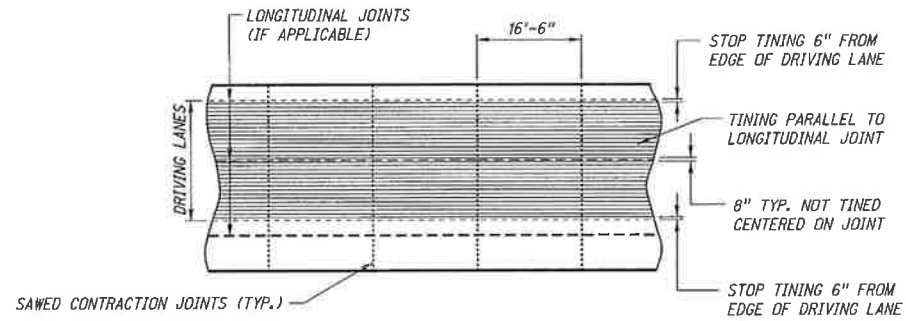
NEBRASKA DEPARTMENT OF ROADS
STANDARD PLAN NO. 329-R9

8 TO 16 INCH CONCRETE PAVEMENT

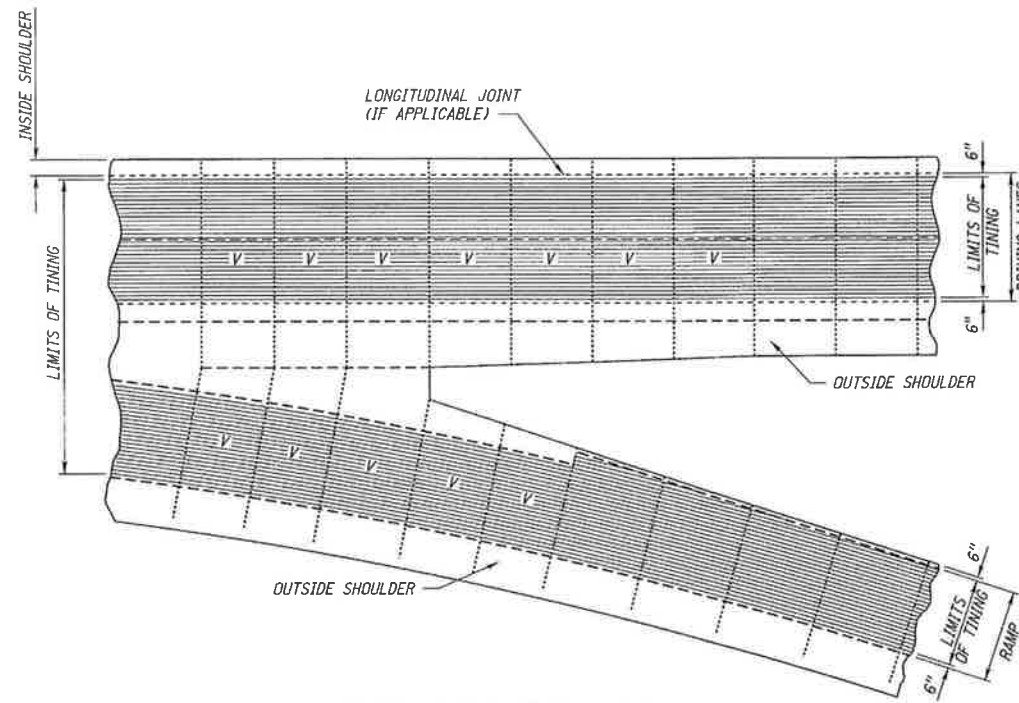
FHWA APPROVED:
[Signature]
DATE: 8/20/01

ORIGINAL:
OCTOBER 25, 1994
DATE

2
4



TINING WITH CONCRETE SHOULDER



TINING LIMITS GORE AREA

NOTES:

16'-6" TRANSVERSE JOINT SPACING IS THE STANDARD JOINT SPACING REGARDLESS OF THE PAVEMENT THICKNESS.

V VARIES FROM 10'-0" TO MAX. 16'-6".

THE LONGITUDINAL JOINT BETWEEN THE SHOULDER AND THE 12'-0" DRIVING LANE IS NOT REQUIRED FOR SHOULDER WIDTHS OF 4'-0" OR LESS.

TRANSVERSE JOINTS FOR DOWELED CONCRETE PAVEMENT SHALL BE CONSTRUCTED PERPENDICULAR TO THE ROADWAY.

ALL CONCRETE SURFACES, NOT TINED, WILL REQUIRE TRANSVERSE BROOMING OR BURLAP DRAG. (NOT APPLICABLE TO SHOULDERS)

REV. NO.	DATE	DESCRIPTION OF REVISION
R9	JUL 11	JOINT: EARLY SAW CUT
R8	OCT. 10	CHANGED TINING INFORMATION
R7	MAR. 05	MULTIPLE CHANGES

NEBRASKA DEPARTMENT OF ROADS
STANDARD PLAN NO. 329-R9
**8 TO 16 INCH
CONCRETE PAVEMENT**

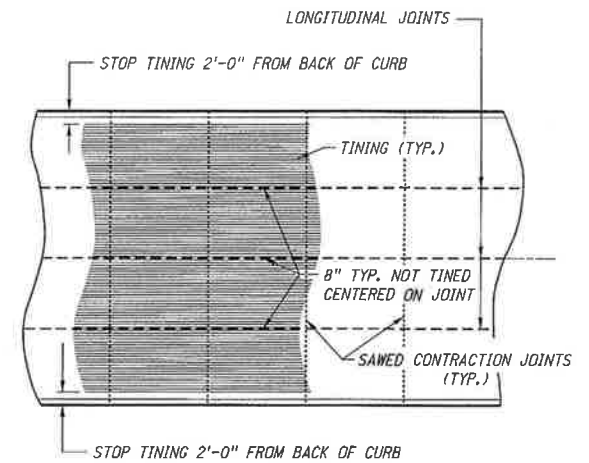
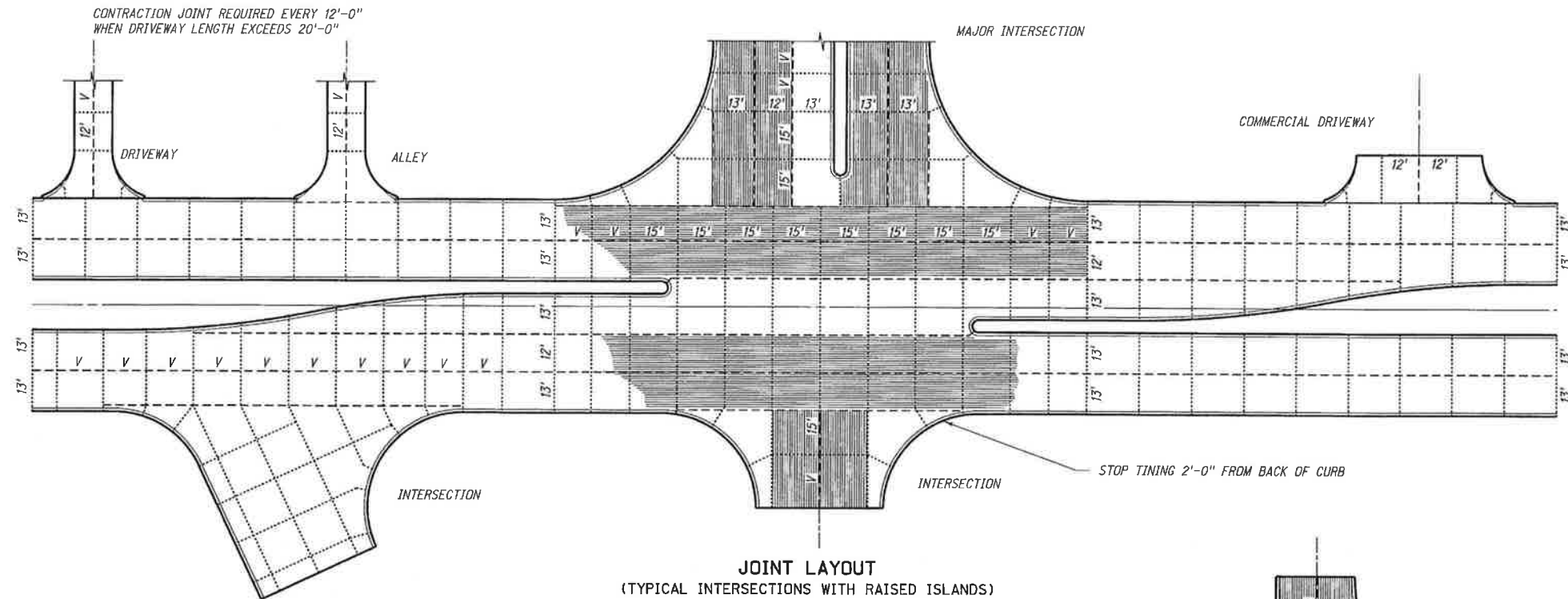


FHWA APPROVED:

Mostafa Janshidi
DATE
3/30/2011

ORIGINAL:
OCTOBER 25, 1994
DATE

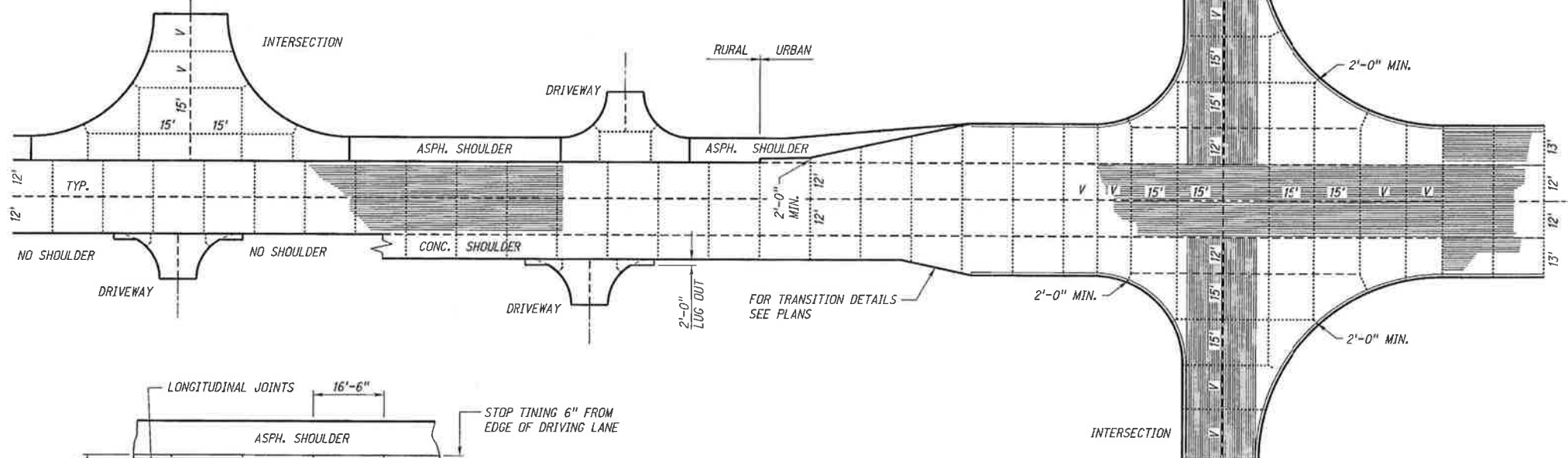
3
4



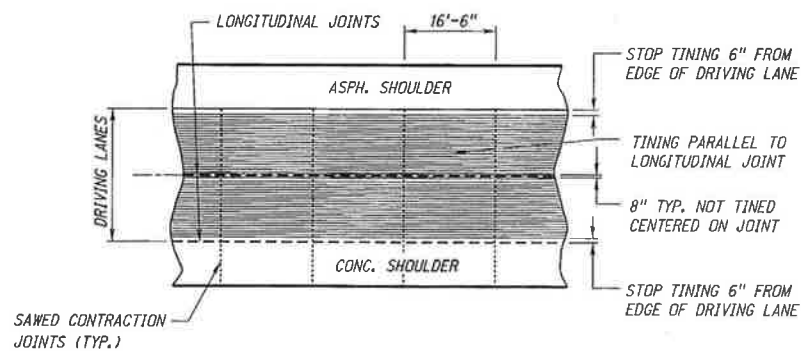
TINGING LIMITS

LEGEND

- SAWED CONTRACTION JOINT
- LONGITUDINAL JOINT



- NOTES:**
- 16'-6" TRANSVERSE JOINT SPACING IS THE STANDARD JOINT SPACING REGARDLESS OF THE PAVEMENT THICKNESS.
 - V VARIES FROM 10'-0" TO MAX. 16'-6".
 - VARIABLE SPACING IS USED AROUND INTERSECTIONS AND LARGE DRIVEWAYS WHICH IS TIED TO THE CONCRETE LANES OR SHOULDERS TO MATCH THE JOINTS.
 - ALL CONCRETE SURFACES, NOT TINED, WILL REQUIRE TRANSVERSE BROOMING OR BURLAP DRAG. (NOT APPLICABLE TO SHOULDERS)



RURAL TINGING LIMITS WITH SURFACED SHOULDERS

JOINT LAYOUT (TYPICAL INTERSECTIONS & DRIVES)

R9	JUL. 11	JOINT: EARLY SAW CUT
R8	OCT. 10	CHANGED TINGING INFORMATION
R7	MAR. 05	MULTIPLE CHANGES
REV. NO.	DATE	DESCRIPTION OF REVISION

NEBRASKA DEPARTMENT OF ROADS
STANDARD PLAN NO. 329-R9
**8 TO 16 INCH
CONCRETE PAVEMENT**



FHWA APPROVED:
William O. Ford
DATE: 3/20/2011
ORIGINAL: OCTOBER 25, 1994
DATE:

4
4