

DukeM
10/15/20204:59:10 PM
DGN MODEL:SYSTEM_BB
pw:\\srandh-pw.bentley.com\\rsandh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA\\SEG 5\\Hydraulics\\Drawings\\21506HYD_019-Typ-Ditch Section-S5M.dgn

DITCH ID	SECTION	BEGIN STATION	OFFSET	BEGIN INV ELEV (FT)	END STATION	OFFSET	END INV ELEV (FT)	ALIGNMENT	LOCATION	B (FT)	Z (LT)	Z (RT)	LONG. SLOPE	DITCH LINING	D (FT)	COMMENTS
CH-BB-3894A	V-Shaped	3895+04.76	39.87' LT	4857.19	3894+04.84	42.62' LT	4855.56	NB I-25	MEDIAN	0.00	29.00%	19.00%	1.64%	VEGETATED	-	
CH-BB-3894B	V-Shaped	3896+95.58	43.83' LT	4859.94	3895+04.76	39.87' LT	4857.12	NB I-25	MEDIAN	0.00	25.00%	25.00%	1.49%	VEGETATED	-	
CH-BB-3894C	V-Shaped	3899+13.72	41.51' LT	4862.89	3896+95.58	43.83' LT	4859.94	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.36%	VEGETATED	-	
CH-BB-3894D	V-Shaped	3900+66.54	43.37' LT	4864.00	3899+13.72	41.51' LT	4862.89	NB I-25	MEDIAN	0.00	16.00%	33.33%	0.73%	VEGETATED	-	
CH-BB-3894E	V-Shaped	3902+25.07	41.10' LT	4864.75	3900+66.54	43.37' LT	4864.00	NB I-25	MEDIAN	0.00	16.67%	33.33%	0.48%	VEGETATED	-	
CH-BB-3902-3A	Trapezoidal	3894+70.46	148.15' LT	4854.45	3902+39.36	176.03' LT	4851.50	NB I-25	LEFT	4.00	33.33%	33.33%	0.39%	VEGETATED	-	
CH-BB-3903-1A	V-Shaped	1011+66.84	12.00' RT	4849.94	1011+49.97	12.20' RT	4849.86	CLPR TRAIL	TRAIL	0.00	16.67%	16.67%	0.49%	CONCRETE	-	
CH-BB-3903-1B	V-Shaped	1013+00.70	12.00' RT	4850.55	1011+66.84	12.00' RT	4849.94	CLPR TRAIL	TRAIL	0.00	16.67%	16.67%	0.45%	CONCRETE	-	
CH-BB-3906A	Trapezoidal	3906+42.08	105.89' RT	4847.21	3905+63.16	108.81' RT	4846.80	NB I-25	RIGHT	4.00	33.33%	33.33%	0.51%	VEGETATED	-	
CH-BB-3906B	Trapezoidal	3908+67.91	110.94' RT	4848.00	3906+42.08	105.89' RT	4847.20	NB I-25	RIGHT	4.00	33.33%	33.33%	0.35%	VEGETATED	-	
CH-BB-3906C	Trapezoidal	3911+51.38	116.88' RT	4849.00	3908+67.91	110.94' RT	4848.00	NB I-25	RIGHT	4.00	33.33%	33.33%	0.35%	VEGETATED	-	
CH-BB-3906D	Trapezoidal	3913+52.73	123.29' RT	4849.71	3911+51.38	116.88' RT	4849.00	NB I-25	RIGHT	4.00	33.33%	33.33%	0.35%	VEGETATED	-	
CH-BB-3913A	V-Shaped	3915+40.33	166.22' LT	4853.64	3913+92.33	188.48' LT	4853.19	NB I-25	LEFT	0.00	10.00%	25.00%	0.30%	VEGETATED	-	
CH-BB-3914NA	V-Shaped	3914+15.53	41.29' LT	4857.40	3913+65.10	43.45' LT	4857.20	NB I-25	MEDIAN	0.00	25.00%	16.67%	0.40%	VEGETATED	-	
CH-BB-3914NB	V-Shaped	3915+17.57	42.86' LT	4857.80	3914+15.53	41.29' LT	4857.40	NB I-25	MEDIAN	0.00	16.67%	16.67%	0.39%	VEGETATED	-	
CH-BB-3914NC	V-Shaped	3916+01.37	45.30' LT	4858.40	3915+17.57	42.86' LT	4857.80	NB I-25	MEDIAN	0.00	33.33%	33.33%	0.71%	VEGETATED	-	
CH-BB-3914ND	V-Shaped	3916+45.88	42.68' LT	4858.80	3916+01.37	45.30' LT	4858.40	NB I-25	MEDIAN	0.00	33.33%	33.33%	0.89%	VEGETATED	-	
CH-BB-3914NE	V-Shaped	3918+55.76	43.24' LT	4862.20	3916+45.88	42.68' LT	4858.80	NB I-25	MEDIAN	0.00	33.33%	33.33%	1.62%	VEGETATED	-	
CH-BB-3914NF	V-Shaped	3922+15.31	44.00' LT	4872.00	3918+55.76	43.24' LT	4862.20	NB I-25	MEDIAN	0.00	33.33%	33.33%	2.73%	VEGETATED	-	
CH-BB-3914NG	V-Shaped	3923+48.65	44.00' LT	4876.00	3922+15.31	44.00' LT	4872.00	NB I-25	MEDIAN	0.00	33.33%	33.33%	3.00%	VEGETATED	-	
CH-BB-3914SA	V-Shaped	3912+81.20	43.29' LT	4857.45	3913+65.10	43.45' LT	4857.20	NB I-25	MEDIAN	0.00	25.00%	16.00%	0.30%	VEGETATED	-	
CH-BB-3914SB	V-Shaped	3911+63.35	43.07' LT	4858.20	3912+81.20	43.29' LT	4857.45	NB I-25	MEDIAN	0.00	25.00%	33.00%	0.63%	VEGETATED	-	
CH-BB-3914SC	V-Shaped	3910+79.17	42.91' LT	4858.80	3911+63.35	43.07' LT	4858.20	NB I-25	MEDIAN	0.00	25.00%	33.00%	0.71%	VEGETATED	-	
CH-BB-3914SD	V-Shaped	3910+55.71	41.02' LT	4859.00	3910+79.17	42.91' LT	4858.80	NB I-25	MEDIAN	0.00	25.00%	33.00%	0.85%	VEGETATED	-	
CH-BB-3914SE	V-Shaped	3910+12.90	40.85' LT	4859.60	3910+55.71	41.02' LT	4859.00	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.40%	VEGETATED	-	
CH-BB-3914SF	V-Shaped	3909+66.54	40.46' LT	4860.20	3910+12.90	40.85' LT	4859.60	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.29%	VEGETATED	-	
CH-BB-3914SG	V-Shaped	3908+45.65	39.19' LT	4861.60	3909+66.54	40.46' LT	4860.20	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.16%	VEGETATED	-	
CH-BB-3914SH	V-Shaped	3907+20.89	38.46' LT	4862.80	3908+45.65	39.19' LT	4861.60	NB I-25	MEDIAN	0.00	25.00%	33.33%	0.96%	VEGETATED	-	
CH-BB-3914SI	V-Shaped	3906+07.90	36.79' LT	4863.99	3907+20.89	38.46' LT	4862.80	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.05%	VEGETATED	-	
CH-BB-3917A	Trapezoidal	3917+97.80	163.69' LT	4856.00	3916+53.00	163.44' LT	4854.04	NB I-25	LEFT	4.00	25.00%	33.33%	1.35%	VEGETATED	-	
CH-BB-3917B	Trapezoidal	3919+54.60	161.42' LT	4860.00	3917+97.80	163.69' LT	4856.00	NB I-25	LEFT	4.00	25.00%	33.33%	2.55%	CLASS 1 TRM	1.00	
CH-BB-3917C	Trapezoidal	3922+40.00	157.09' LT	4867.85	3919+54.60	161.42' LT	4860.00	NB I-25	LEFT	4.00	33.33%	25.00%	2.76%	CLASS 1 TRM	1.00	
CH-BB-3917D	V-Shaped	3922+50.00	151.92' LT	4868.12	3922+40.00	157.09' LT	4867.85	NB I-25	LEFT	0.00	33.33%	16.67%	2.40%	CLASS 1 TRM	1.00	
CH-BB-3917E	V-Shaped	3923+18.96	149.59' LT	4871.00	3922+50.00	151.92' LT	4868.12	NB I-25	LEFT	0.00	33.33%	16.67%	4.17%	CLASS 2 TRM	1.00	
CH-BB-3917F	V-Shaped	3923+59.89	151.95' LT	4871.55	3923+18.96	149.59' LT	4871.00	NB I-25	LEFT	0.00	33.33%	16.67%	1.34%	VEGETATED	-	
CH-BB-3918A	Trapezoidal	3917+81.02	126.87' RT	4852.60	3917+64.66	126.69' RT	4852.55	NB I-25	RIGHT	4.00	33.33%	33.33%	0.30%	VEGETATED	-	
CH-BB-3918B	Trapezoidal	3918+45.18	120.00' RT	4852.80	3917+81.02	126.87' RT	4852.60	NB I-25	RIGHT	4.00	33.33%	33.33%	0.31%	VEGETATED	-	
CH-BB-3918C	Trapezoidal	3919+78.34	115.27' RT	4853.20	3918+45.18	120.00' RT	4852.80	NB I-25	RIGHT	4.00	33.33%	33.33%	0.30%	VEGETATED	-	
CH-BB-3918D	Trapezoidal	3921+78.37	116.34' RT	4853.80	3919+78.34	115.27' RT	4853.20	NB I-25	RIGHT	4.00	33.33%	33.33%	0.30%	VEGETATED	-	
CH-BB-3918E	Trapezoidal	3924+43.83	124.68' RT	4854.60	3921+78.37	116.34' RT	4853.80	NB I-25	RIGHT	4.00	33.33%	33.33%	0.30%	VEGETATED	-	
CH-BB-3918F	Trapezoidal	3927+09.76	144.34' RT	4855.40	3924+43.83	124.68' RT	4854.60	NB I-25	RIGHT	4.00	33.33%	33.33%	0.30%	VEGETATED	-	
CH-BB-3924	V-Shaped	3933+45.39	44.01' LT	4897.96	3924+19.60	44.11' LT	4878.16	NB I-25	MEDIAN	0.00	16.80%	16.80%	2.14%	VEGETATED	-	

Print Date: 10/15/2020

File Name: 21506HYD_019-Typ-Ditch Section-S5M.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted



Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
DITCH SYSTEM BB
DRAINAGE DITCH DETAILS

Designer: J. Shintaku

Detailer: B. Whitt

Sheet Subset: DR-DITCH

Structure Numbers

Subset Sheets: 4 of 15

Project No./Code

IM 0253-255

21506

Sheet Number

269

DukeM
10/15/2020 4:59:11 PM
DGN MODEL:SYSTEM_DD -1
pw:\\rsandh-pw.bentley.com\\rsandh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA\\SEG 5\\Hydraulics\\Drawings\\21506HYD_019-Typ-Ditch Section-S5M.dgn

DITCH ID	SECTION	BEGIN STATION	OFFSET	BEGIN INV ELEV (FT)	END STATION	OFFSET	END INV ELEV (FT)	ALIGNMENT	LOCATION	B (FT)	Z (LT)	Z (RT)	LONG. SLOPE	DITCH LINING	D (FT)	COMMENTS
CH-DD-3933-1E	Trapezoidal	3933+30.80	57.32' RT	4867.14	3934+30.54	29.85' LT	4866.48	NB I-25	GWRR	4.00	9.50%	1.77%	0.50%	VEGETATED	-	
CH-DD-3933-2A	Trapezoidal	3935+71.52	165.07' LT	4865.00	3935+79.20	186.47' LT	4864.80	NB I-25	GWRR	4.00	3.22%	7.18%	0.88%	VEGETATED	-	
CH-DD-3933-2B	Trapezoidal	3935+58.20	147.10' LT	4865.20	3935+71.52	165.07' LT	4865.00	NB I-25	GWRR	4.00	2.18%	10.85%	0.89%	VEGETATED	-	
CH-DD-3933-2C	Trapezoidal	3934+92.44	84.33' LT	4866.00	3935+58.20	147.10' LT	4865.20	NB I-25	GWRR	4.00	11.84%	11.28%	0.88%	VEGETATED	-	
CH-DD-3933-2D	Trapezoidal	3934+30.54	29.85' LT	4866.44	3934+92.44	84.33' LT	4866.00	NB I-25	GWRR	4.00	11.09%	6.54%	0.54%	VEGETATED	-	
CH-DD-3934-1A	Trapezoidal	102+84.33	262.63' LT	4864.80	103+40.21	297.29' LT	4864.07	EAST FRONTAGE RD	GWRR	3.00	11.28%	51.85%	1.04%	VEGETATED	-	
CH-DD-3934-1B	Trapezoidal	102+26.84	216.99' LT	4865.60	102+84.33	262.63' LT	4864.80	EAST FRONTAGE RD	GWRR	3.00	8.92%	32.77%	1.04%	VEGETATED	-	
CH-DD-3934-1C	Trapezoidal	101+81.84	183.62' LT	4866.20	102+26.84	216.99' LT	4865.60	EAST FRONTAGE RD	GWRR	3.00	5.69%	32.96%	1.04%	VEGETATED	-	
CH-DD-3934-1D	Trapezoidal	101+55.62	162.82' LT	4866.40	101+81.84	183.62' LT	4866.20	EAST FRONTAGE RD	GWRR	3.00	4.83%	29.02%	0.60%	VEGETATED	-	
CH-DD-3934-1E	Trapezoidal	101+08.55	123.65' LT	4866.60	101+55.62	162.82' LT	4866.40	EAST FRONTAGE RD	GWRR	3.00	4.69%	40.21%	0.33%	VEGETATED	-	
CH-DD-3934-1F	Trapezoidal	100+59.76	86.62' LT	4866.80	101+08.55	123.65' LT	4866.60	EAST FRONTAGE RD	GWRR	3.00	4.38%	39.45%	0.32%	VEGETATED	-	
CH-DD-3934-1G	Trapezoidal	100+21.42	57.90' LT	4866.97	100+59.76	86.62' LT	4866.80	EAST FRONTAGE RD	GWRR	3.00	3.44%	36.30%	0.35%	VEGETATED	-	
CH-DD-3934-1H	Trapezoidal	100+15.78	31.69' LT	4869.22	100+21.42	57.90' LT	4866.97	EAST FRONTAGE RD	GWRR	3.00	4.00%	33.33%	8.38%	CONCRETE	-	
CH-DD-3934-1I	V-Shaped	100+16.58	23.12' LT	4870.25	100+15.78	31.69' LT	4869.22	EAST FRONTAGE RD	LEFT	0.00	5.00%	5.00%	11.94%	CONCRETE	-	
CH-DD-3934-1J	V-Shaped	100+25.67	18.49' LT	4871.82	100+16.58	23.12' LT	4870.25	EAST FRONTAGE RD	LEFT	0.00	5.00%	5.00%	15.42%	CONCRETE	-	
CH-DD-3934-1K	V-Shaped	100+54.77	18.19' LT	4874.86	100+25.67	18.49' LT	4871.82	EAST FRONTAGE RD	LEFT	0.00	100.00%	50.00%	10.45%	CONCRETE	-	
CH-DD-3934-1L	V-Shaped	100+93.35	18.18' LT	4876.60	100+54.77	18.19' LT	4874.86	EAST FRONTAGE RD	LEFT	0.00	100.00%	50.00%	4.51%	CONCRETE	-	
CH-DD-3934-1M	V-Shaped	101+95.81	18.18' LT	4880.61	100+93.35	18.18' LT	4876.60	EAST FRONTAGE RD	LEFT	0.00	100.00%	50.00%	3.91%	CONCRETE	-	
CH-DD-3934-1N	V-Shaped	102+76.37	18.18' LT	4882.90	101+95.81	18.18' LT	4880.61	EAST FRONTAGE RD	LEFT	0.00	100.00%	50.00%	2.83%	CONCRETE	-	
CH-DD-3934A	Trapezoidal	100+58.49	37.74' RT	4869.20	100+44.96	36.31' RT	4868.90	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	2.22%	VEGETATED	-	
CH-DD-3934B	Trapezoidal	101+60.06	41.41' RT	4872.60	100+58.49	37.74' RT	4869.20	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	3.35%	VEGETATED	-	
CH-DD-3934C	Trapezoidal	102+49.63	40.53' RT	4875.60	101+60.06	41.41' RT	4872.60	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	3.38%	VEGETATED	-	
CH-DD-3934D	Trapezoidal	103+21.47	37.88' RT	4878.00	102+49.63	40.53' RT	4875.60	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	3.38%	VEGETATED	-	
CH-DD-3938A	Trapezoidal	104+91.29	39.55' RT	4879.39	103+80.18	37.79' RT	4878.93	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	0.42%	VEGETATED	-	
CH-DD-3938B	Trapezoidal	104+99.05	34.53' RT	4879.44	104+91.29	39.55' RT	4879.39	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	0.50%	VEGETATED	-	
CH-DD-3938C	Trapezoidal	107+48.49	33.70' RT	4881.79	104+99.05	34.53' RT	4879.44	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	0.94%	VEGETATED	-	
CH-DD-3938D	Trapezoidal	108+69.20	30.71' RT	4883.40	107+48.49	33.70' RT	4881.79	EAST FRONTAGE RD	RIGHT	2.00	33.33%	25.00%	1.34%	VEGETATED	-	
CH-DD-3938E	Trapezoidal	110+02.68	33.94' RT	4883.80	108+69.20	30.71' RT	4883.40	EAST FRONTAGE RD	RIGHT	2.00	33.33%	25.00%	0.30%	VEGETATED	-	
CH-DD-3938F	Trapezoidal	111+36.00	40.10' RT	4884.20	110+02.68	33.94' RT	4883.80	EAST FRONTAGE RD	RIGHT	2.00	33.33%	25.00%	0.30%	VEGETATED	-	
CH-DD-3938G	Trapezoidal	112+80.37	43.05' RT	4884.80	111+36.00	40.10' RT	4884.20	EAST FRONTAGE RD	RIGHT	2.00	33.33%	25.00%	0.41%	VEGETATED	-	
CH-DD-3946-3A	V-Shaped	3944+82.48	42.75' LT	4891.20	3945+61.70	39.68' LT	4890.93	NB I-25	MEDIAN	0.00	25.00%	33.33%	2.69%	VEGETATED	-	
CH-DD-3946-3B	V-Shaped	3944+29.49	41.10' LT	4891.40	3944+82.48	42.75' LT	4891.20	NB I-25	MEDIAN	0.00	25.00%	33.33%	0.38%	VEGETATED	-	
CH-DD-3946-3C	V-Shaped	3943+76.55	43.98' LT	4891.60	3944+29.49	41.10' LT	4891.40	NB I-25	MEDIAN	0.00	25.00%	33.33%	0.38%	VEGETATED	-	

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Horiz. Scale: 1:1 Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.



Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
DITCH SYSTEM DD
DRAINAGE DITCH DETAILS

Designer: J. Shintaku

Detailer: B. Whitt

Sheet Subset: DR-DITCH

Structure
Numbers

Subset Sheets: 5 of 15

Project No./Code

IM 0253-255

21506

Sheet
Number

270

Segment 5M - RFC - CDOT - 10.19.2020

DukeM
10/15/20204:59:12 PM
DGN MODEL:SYSTEM DD -2
pw:\rsandh-pw.bentley.com\rsandh-pw-01\Documents\Transportation\Projects\21506 - North I-25 (CDDT)\MIRA SEG 5\Hydraulics\Drawings\21506HYD_019-Typ-Ditch Section-S5M.dgn

DITCH ID	SECTION	BEGIN STATION	OFFSET	BEGIN INV ELEV (FT)	END STATION	OFFSET	END INV ELEV (FT)	ALIGNMENT	LOCATION	B (FT)	Z (LT)	Z (RT)	LONG. SLOPE	DITCH LINING	D (FT)	COMMENTS
CH-DD-3946-3D	V-Shaped	3942+54.55	42.29' LT	4893.00	3943+76.55	43.98' LT	4891.60	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.15%	VEGETATED	-	
CH-DD-3946-3E	V-Shaped	3940+49.63	42.29' LT	4895.60	3942+54.55	42.29' LT	4893.00	NB I-25	MEDIAN	0.00	25.00%	33.33%	1.27%	VEGETATED	-	
CH-DD-3946-3F	V-Shaped	3938+23.13	42.29' LT	4897.20	3940+49.63	42.29' LT	4895.60	NB I-25	MEDIAN	0.00	25.00%	33.33%	0.71%	VEGETATED	-	
CH-DD-3946-3G	V-Shaped	3936+82.19	43.30' LT	4897.78	3938+23.13	42.29' LT	4897.20	NB I-25	MEDIAN	0.00	25.00%	33.33%	0.41%	VEGETATED	-	
CH-DD-3947-2NA	Trapezoidal	3947+81.40	57.83' RT	4889.00	3947+46.19	60.32' RT	4887.56	NB I-25	RIGHT	1.10	33.33%	33.33%	4.08%	CONCRETE	-	
CH-DD-3947-2NB	Trapezoidal	3948+63.20	54.93' RT	4889.40	3947+81.40	57.83' RT	4889.00	NB I-25	RIGHT	2.40	33.33%	33.33%	0.49%	CLASS 1 TRM	1.00	
CH-DD-3947-2NC	Trapezoidal	3949+83.17	54.16' RT	4890.00	3948+63.20	54.93' RT	4889.40	NB I-25	RIGHT	2.40	33.33%	33.33%	0.50%	CLASS 1 TRM	1.00	
CH-DD-3947-2ND	Trapezoidal	3951+43.17	53.83' RT	4890.80	3949+83.17	54.16' RT	4890.00	NB I-25	RIGHT	2.40	33.33%	33.33%	0.50%	CLASS 1 TRM	1.00	
CH-DD-3947-2NE	Trapezoidal	3953+00.00	53.68' RT	4891.58	3951+43.17	53.83' RT	4890.80	NB I-25	RIGHT	6.50	33.33%	33.33%	0.50%	CLASS 1 TRM	1.00	
CH-DD-3947-2NF	Trapezoidal	3954+23.16	54.76' RT	4892.20	3953+00.00	53.68' RT	4891.58	NB I-25	RIGHT	0.50	25.00%	25.00%	0.50%	CLASS 1 TRM	1.50	
CH-DD-3947-2NG	Trapezoidal	3955+03.09	55.89' RT	4892.60	3954+23.16	54.76' RT	4892.20	NB I-25	RIGHT	1.80	25.00%	25.00%	0.50%	CLASS 1 TRM	1.50	
CH-DD-3947-2NH	Trapezoidal	3957+59.54	61.60' RT	4893.90	3955+03.09	55.89' RT	4892.60	NB I-25	RIGHT	4.00	25.00%	25.00%	0.51%	CLASS 1 TRM	1.00	
CH-DD-3947-2SA	V-Shaped	3946+66.95	60.78' RT	4887.79	3947+46.19	60.32' RT	4887.56	NB I-25	RIGHT	0.00	50.00%	50.00%	0.29%	CONCRETE	-	
CH-DD-3947-2SB	V-Shaped	3945+26.69	61.59' RT	4888.22	3946+66.95	60.78' RT	4887.79	NB I-25	RIGHT	0.00	50.00%	50.00%	0.31%	CONCRETE	-	
CH-DD-3948-1A	V-Shaped	3950+12.51	44.60' LT	4892.24	3948+21.86	44.50' LT	4891.27	NB I-25	MEDIAN	0.00	16.70%	25.00%	0.51%	VEGETATED	-	
CH-DD-3948-1B	V-Shaped	3950+46.97	42.02' LT	4892.40	3950+12.51	44.60' LT	4892.24	NB I-25	MEDIAN	0.00	16.67%	25.00%	0.47%	VEGETATED	-	
CH-DD-3948-1C	V-Shaped	3950+80.76	41.61' LT	4892.64	3950+46.97	42.02' LT	4892.40	NB I-25	MEDIAN	0.00	16.67%	25.00%	0.71%	CLASS 1 TRM	0.50	
CH-DD-3948-1D	V-Shaped	3951+14.78	42.13' LT	4892.81	3950+80.76	41.61' LT	4892.64	NB I-25	MEDIAN	0.00	16.67%	25.00%	0.50%	VEGETATED	-	
CH-DD-3948-1E	V-Shaped	3951+48.78	43.40' LT	4892.98	3951+14.78	42.13' LT	4892.81	NB I-25	MEDIAN	0.00	16.67%	16.67%	0.50%	VEGETATED	-	
CH-DD-3948-1F	V-Shaped	3951+92.43	43.99' LT	4893.20	3951+48.78	43.40' LT	4892.98	NB I-25	MEDIAN	0.00	16.67%	16.67%	0.50%	VEGETATED	-	
CH-DD-3948-1G	V-Shaped	3955+52.86	43.99' LT	4895.00	3951+92.43	43.99' LT	4893.20	NB I-25	MEDIAN	0.00	16.67%	16.67%	0.50%	VEGETATED	-	
CH-DD-3948-1H	V-Shaped	3957+60.01	44.00' LT	4896.03	3955+52.86	43.99' LT	4895.00	NB I-25	MEDIAN	0.00	16.67%	16.67%	0.50%	VEGETATED	-	
CH-DD-3948-2A	Trapezoidal	117+19.92	38.15' RT	4888.80	113+56.29	37.38' RT	4886.29	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	0.69%	VEGETATED	-	
CH-DD-3948-2B	Trapezoidal	120+65.59	38.17' RT	4891.20	117+19.92	38.15' RT	4888.80	EAST FRONTAGE RD	RIGHT	4.00	33.33%	25.00%	0.70%	VEGETATED	-	
CH-DD-3948-2C	V-Shaped	121+18.53	34.56' RT	4891.52	120+65.59	38.17' RT	4891.20	EAST FRONTAGE RD	RIGHT	0.00	33.33%	25.00%	0.61%	VEGETATED	-	
CH-DD-3955A	V-Shaped	123+50.42	39.36' RT	4892.36	121+84.10	37.51' RT	4891.86	EAST FRONTAGE RD	RIGHT	0.00	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955B	V-Shaped	124+16.72	39.65' RT	4892.56	123+50.42	39.36' RT	4892.36	EAST FRONTAGE RD	RIGHT	0.00	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955C	V-Shaped	125+49.50	40.49' RT	4892.96	124+16.72	39.65' RT	4892.56	EAST FRONTAGE RD	RIGHT	0.00	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955D	V-Shaped	128+34.23	42.65' RT	4893.81	125+49.50	40.49' RT	4892.96	EAST FRONTAGE RD	RIGHT	0.00	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955E	Trapezoidal	129+28.47	43.49' RT	4894.09	128+34.23	42.65' RT	4893.81	EAST FRONTAGE RD	RIGHT	1.00	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955F	Trapezoidal	131+30.55	48.09' RT	4894.69	129+28.47	43.49' RT	4894.09	EAST FRONTAGE RD	RIGHT	2.20	33.33%	20.00%	0.30%	VEGETATED	-	
CH-DD-3955G	Trapezoidal	132+22.78	49.39' RT	4894.97	131+30.55	48.09' RT	4894.69	EAST FRONTAGE RD	RIGHT	3.80	33.33%	20.00%	0.30%	CONCRETE	-	

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Void:

NORTH I-25 EXPRESS LANES
DITCH SYSTEM DD
DRAINAGE DITCH DETAILS

Designer: J. Shintaku

Detailer: B. Whitt

Sheet Subset: DR-DITCH Subset Sheets: 6 of 15

Project No./Code

IM 0253-255

21506

Sheet Number

271

Segment 5M - RFC - CDOT - 10.19.2020

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Print Date: 10/15/2020
File Name: 21506HYD_019-Plan-Sheets 1-6-S5M.dgn
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NORTH I-25 EXPRESS LANES NB & SB I-25 DRAINAGE PLAN

Designer: J. Shintaku
Detailer: L. Moreland
Sheet Subset: DR-PLAN

Structure
Numbers

Subset Sheets: 4 of 18

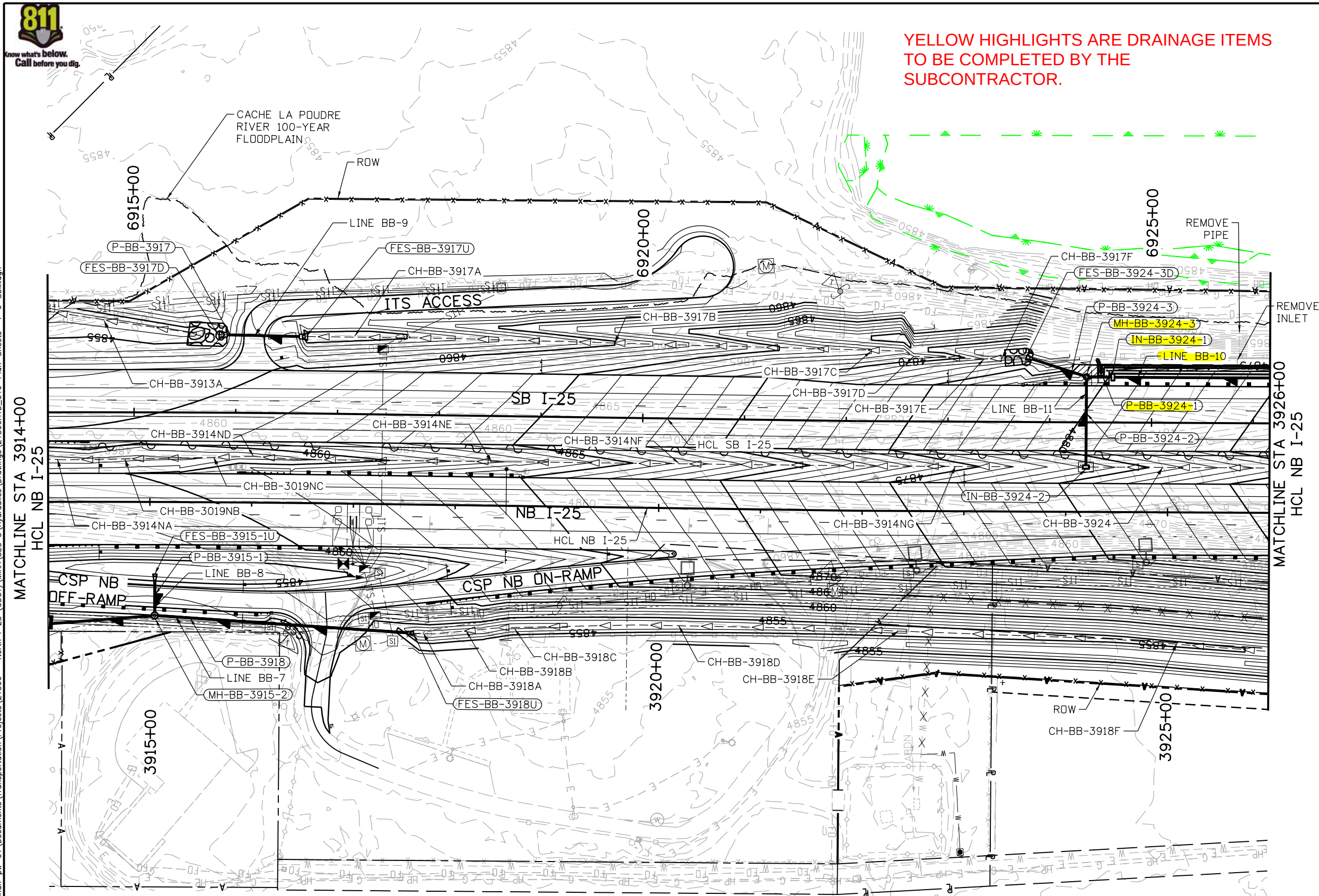
Project No./Code

IM 0253-255

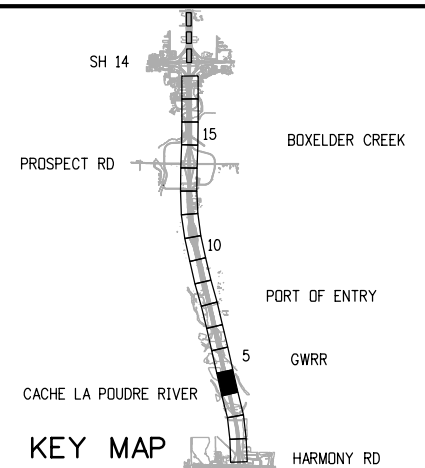
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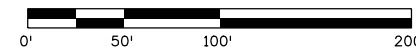
NOTES:

1. ALL EXISTING DRAINAGE SYSTEMS TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. SEE REMOVAL PLANS FOR IRRIGATION REMOVAL INFORMATION.

LEGEND:

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- WETLAND
- DITCH PAVING



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PROFILE SHEET	LINE	ID	STATION/OFFSET	HCL	ITEM	LENGTH	PAY DEPTH	MISC NOTES
3	BB-7	MH-BB-3915-2	508+08.02, 27.10' RT.	CSP	MH SLAB BASE		5'	FLAT TOP MANHOLE
		P-BB-3918			30"x19" HERCP	246'		
		FES-BB-3918U	510+56.11, 47.68' RT.	CSP	30"x19" HERCES			
4	BB-8	FES-BB-3915-1U	508+05.91, 13.51' LT.	CSP	18" RCES			
		P-BB-3915-1			18" RCP	32'		
	BB-9	FES-BB-3917D	3915+66.99, 164.65' LT.	NB I-25	45"x29" HERCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-BB-3917			45"x29" HERCP	71'		
		FES-BB-3917U	3916+53.00, 163.44' LT.	NB I-25	45"x29" HERCES			
	BB-10	FES-BB-3924-3D	3923+60.63, 151.71' LT.	NB I-25	24" RCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-BB-3924-3			24" RCP	54'		
		MH-BB-3924-3	3924+19.76, 132.75' LT.	NB I-25	MH SLAB BASE		10'	
		P-BB-3924-1			26" O.D. HDPE DR 21	22'		
		IN-BB-3924-1	3924+45.69, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		10'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
6	BB-11	P-BB-3924-2			18" RCP	85'		
		IN-BB-3924-2	3924+19.60, 44.11' LT.	NB I-25	INLET TYPE D		5'	DIKE AFTER INLET - SEE DRAINAGE DETAILS SLOPE AND DITCH PAVING REQD (SEE CDOT M&S STANDARD M-604-10)

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No Revisions:				IM 0253-255
Revised:	Designer:	J. Shintaku	Structure	21506
	Detailer:	L. Moreland	Numbers	
Void:	Sheet Subset:	DR-PLAN	Subset Sheets: 4t of 18	Sheet Number 288

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NORTH I-25 EXPRESS LANES NB & SB I-25 DRAINAGE PLAN

Designer: J. Shintaku
Detailer: L. Moreland
Sheet Subset: DR-PLAN

Structure
Numbers

Subset Sheets: 5 of 18

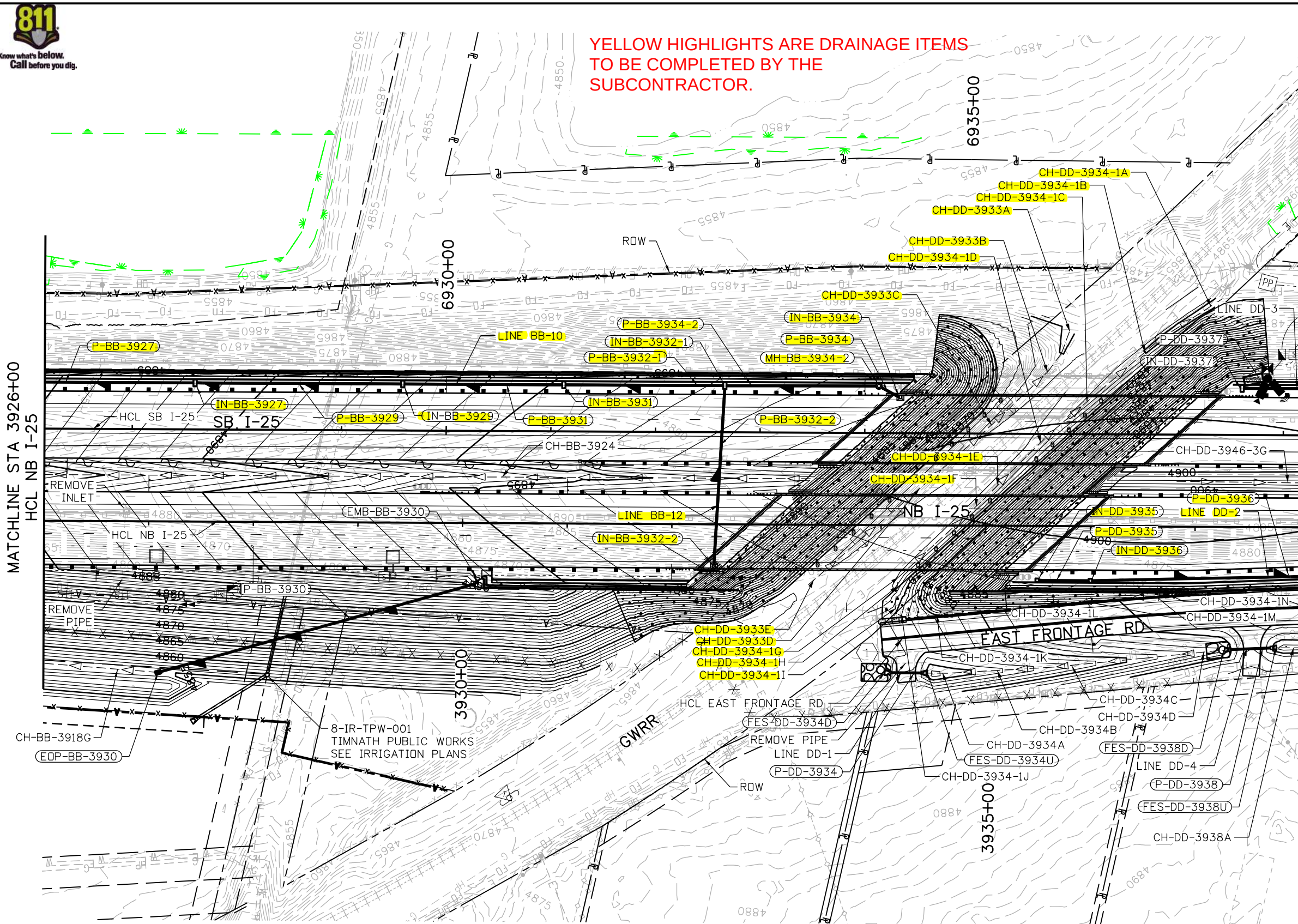
Project No./Code

IM 0253-255

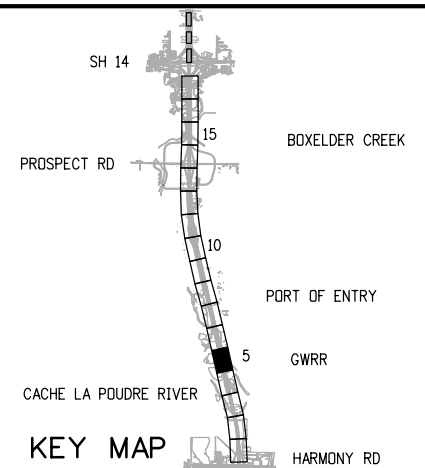
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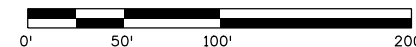
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- NO WORK CAN OCCUR IN 4F RESOURCE AREA UNTIL APPROVAL IS RECEIVED FROM THE ENVIRONMENTAL MANAGER

- ROADSIDE DITCH
- RIPRAP
- WETLAND
- DITCH PAVING



Segment 5M - RFC - CDOT - 10.19.2020

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PROFILE SHEET	LINE	ID	STATION/OFFSET	HCL	ITEM	LENGTH	PAY DEPTH	MISC NOTES
5	BB=10	P-BB-3927			22" O.D. HDPE DR 21	295'		
		IN-BB-3927	3927+43.66, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-BB-3929			22" O.D. HDPE DR 21	196'		
		IN-BB-3929	3929+42.15, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-BB-3931			22" O.D. HDPE DR 21	151'		
		IN-BB-3931	3930+96.08, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-BB-3932=1			22" O.D. HDPE DR 21	151'		
		IN-BB-3932=1	3932+49.92, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-BB-3934=2			22" O.D. HDPE DR 21	143'		
		MH-BB-3934=2	3933+97.32, 132.89' LT.	NB I-25	MH SLAB BASE		5'	
		P-BB-3934			22" O.D. HDPE DR 21	19'		
		IN-BB-3934	3934+17.82, 124.00' LT.	NB I-25	APPROACH DRAIN		5'	SEE STRUCTURES PLANS FOR DETAILS
N/A		EOP-BB-3930	3927+11.67, 143.80' RT.	NB I-25				END OF PIPE; RIPRAP APRON D50=9" - SEE CDOT STD M-615-1
		P-BB-3930			18" CSP	316'		
		EMB-BB-3930	3930+14.42, 50.93' RT.	NB I-25	EMB PROTECTOR TYP 3		N/A	
7	BB=12	P-BB-3932=2			18" RCP	168'		
		IN-BB-3932=2	3932+40.38, 42.00' RT.	NB I-25	APPROACH DRAIN		5'	SEE STRUCTURES PLANS FOR DETAILS
8	DD-1	FES-DD-3934D	100+00.00, 31.56' RT.	EAST FRONTAGE RD	34"x22" HERCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-DD-3934			34"x22" HERCP	28'		
		FES-DD-3934U	100+40.53, 35.82' RT.	EAST FRONTAGE RD	34"x22" HERCES			
	DD=2	IN-DD-3935	3935+49.36, 54.00' RT.	NB I-25	VANE GRATE (SINGLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3935			22" O.D. HDPE DR 21	48'		
		IN-DD-3936	3936+00.31, 54.00' RT.	NB I-25	VANE GRATE (SINGLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
10	DD-3	P-DD-3936			22" O.D. HDPE DR 21	297'		
		IN-DD-3937	3937+44.34, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3937			18" RCP	237'		
11	DD-4	FES-DD-3938D	103+27.17, 37.47' RT.	EAST FRONTAGE RD	30"x19" HERCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-DD-3938			30"x19" HERCP	38'		
		FES-DD-3938U	103+77.36, 37.58' RT.	EAST FRONTAGE RD	30"x19" HERCES			

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NORTH I-25 EXPRESS LANES
NB & SB I-25
DRAINAGE PLAN

Designer: J. Shintaku

Detailer: L. Moreland

Sheet Subset: DR-PLAN

Structure Numbers

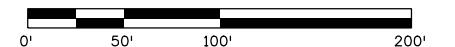
Subset Sheets: 5t of 18

Project No./Code

IM 0253-255

21506

Sheet Number 290



YELLOW HIGHLIGHTS ARE DRAINAGE ITEMS
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PROFILE SHEET	LINE	ID	STATION/OFFSET	HCL	ITEM	LENGTH	PAY DEPTH	MISC NOTES
9	DD-2	IN-DD-3939	3939+00.00, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3939			22" O.D. HDPE DR 21	297'		
		IN-DD-3942	3942+00.00, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3942			26" O.D. HDPE DR 21	197'		
		IN-DD-3944	3944+00.00, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3944			26" O.D. HDPE DR 21	130'		
		IN-DD-3945-1	3945+32.60, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3945-1			30" RCP	92'		
		P-DD-3947-1			30" RCP	91'		
		IN-DD-3947-1	3947+24.23, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE)		10'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3947-2			24" RCP	17'		
		FES-DD-3947-2U	3947+43.97, 58.37' RT.	NB I-25	24" RCES			
10	DD-3	IN-DD-3940	3939+83.88, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3940			18" RCP	297'		
		IN-DD-3943	3942+83.87, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3943			24" RCP	197'		
		IN-DD-3945	3944+83.87, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		10'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3945			24" RCP	107'		
		IN-DD-3946	3945+93.88, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		10'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3946			30" RCP	27'		
		P-DD-3947			18" RCP	24'		
		IN-DD-3947	3946+53.87, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3948			18" RCP	77'		
		IN-DD-3948	3947+33.88, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE)		5'	CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
11	DD-5	FES-DD-3946-3U	3945+65.65, 40.62' LT.	NB I-25	18" RCES			
		P-DD-3946-3			18" RCP	51'		
		P-DD-3948-1			18" RCP	164'		
		FES-DD-3948-1U	3947+99.02, 44.42' LT.	NB I-25	18" RCES			
	DD-6	FES-DD-3946-1D	3945+84.01, 179.93' LT.	NB I-25	36" RCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-DD-3946-1			36" RCP	52'		
		IN-DD-3946-1	3946+23.87, 136.00' LT.	NB I-25	VANE GRATE (DOUBLE) (SPECIAL)		10'	SEE DRAINAGE DETAILS - CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
		P-DD-3946-4			36" RCP	72'		
		MH-DD-3946-4	3946+25.31, 52.86' LT.	NB I-25	MH SLAB BASE		10'	
		P-DD-3946-2			30" RCP	90'		
		IN-DD-3946-2	3946+27.05, 48.00' RT.	NB I-25	VANE GRATE (DOUBLE) (SPECIAL)		10'	SEE DRAINAGE DETAILS - CONCRETE APRON REQD (SEE CDOT M&S STANDARD M-640-25)
12	DD-7	FES-DD-3948-2D	112+78.64, 43.20' RT.	EAST FRONTAGE RD	24" RCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-DD-3948-2			24" RCP	61'		
		FES-DD-3948-2U	113+51.56, 36.59' RT.	EAST FRONTAGE RD	24" RCES			

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Print Date: 10/15/2020

File Name: 21506HYD_019-Plan-Sheets 1-6-S5M.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted



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Date:	Comments	Init.

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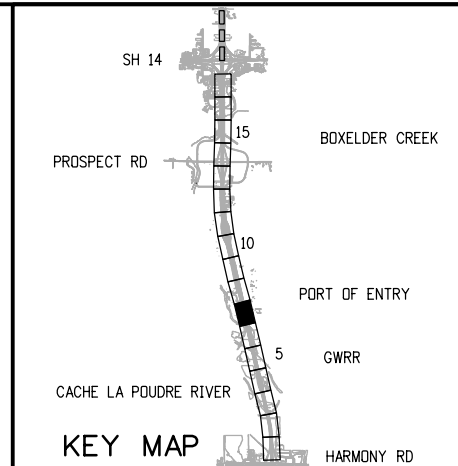
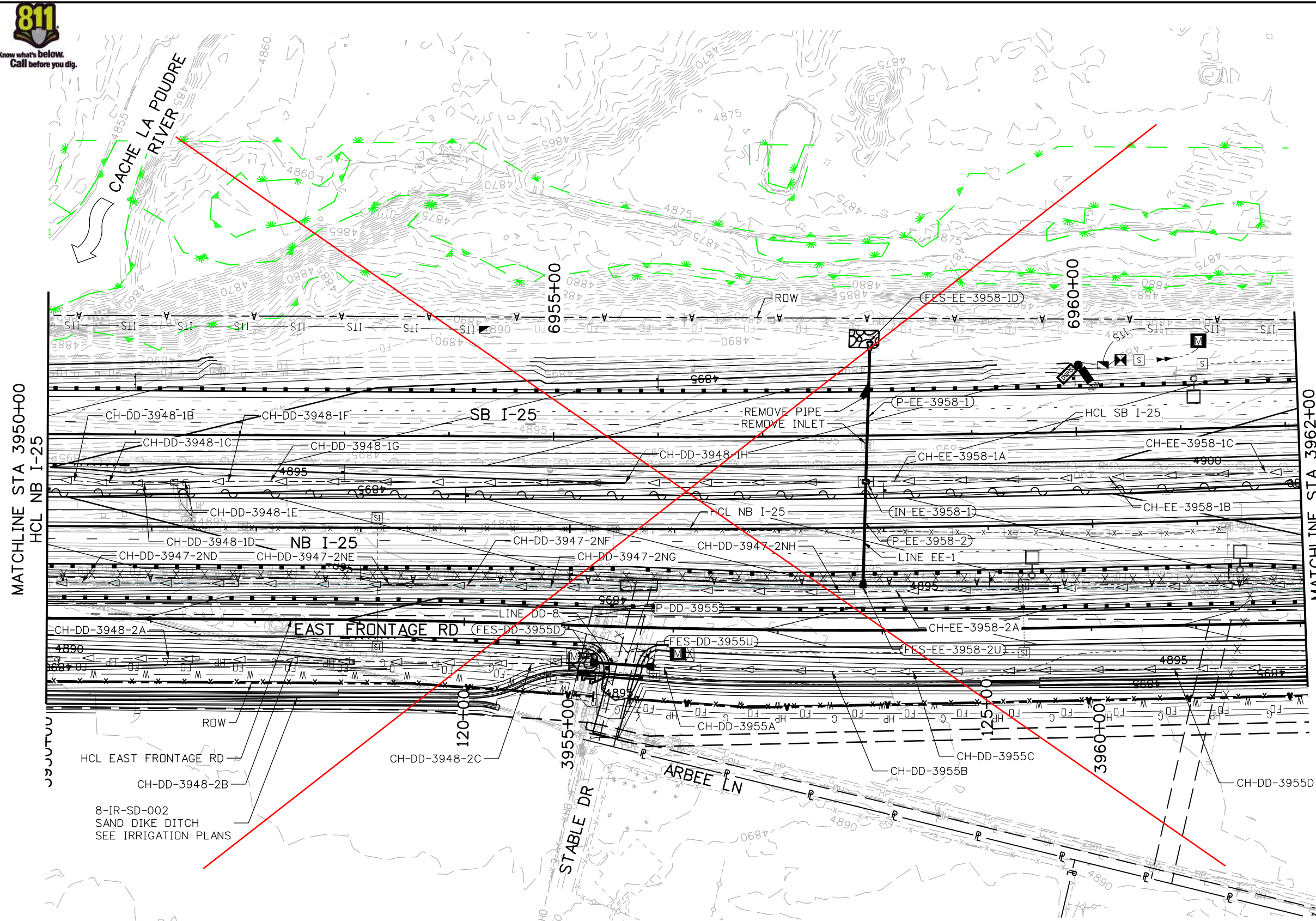
Region 4

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As Constructed	NORTH I-25 EXPRESS LANES NB & SB I-25 DRAINAGE PLAN			Project No./Code
No Revisions:				IM 0253-255
Revised:	Designer: J. Shintaku	Structure Numbers		21506
Void:	Detailer: L. Moreland	Sheet Subset: DR-PLAN	Subset Sheets: 6t of 18	Sheet Number 292

Segment 5M - RFC - CDOT - 10.19.2020

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NOTES:
1. ALL EXISTING DRAINAGE SYSTEMS TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. SEE REMOVAL PLANS FOR IRRIGATION REMOVAL INFORMATION.

LEGEND:
1 EXISTING PIPE CONDITION SHALL BE VERIFIED. IF CONDITION IS NOT IN ACCEPTABLE CONDITION, PIPE SHALL BE REPLACED WITH REINFORCED CONCRETE PIPE OF EQUIVALENT SIZE.
2 NO WORK CAN OCCUR IN 4F RESOURCE AREA UNTIL APPROVAL IS RECEIVED FROM THE ENVIRONMENTAL MANAGER

- ROADSIDE DITCH
- RIPRAP
- WETLAND
- DITCH PAVING

Print Date: 10/15/2020
File Name: 21506HYD_019-Plan-Sheets 7-12-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted



Sheet Revisions		
Date:	Comments	Init.

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Region 4
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No Revisions:
Revised:
Void:

NORTH I-25 EXPRESS LANES NB & SB I-25 DRAINAGE PLAN	
Designer:	J. Shintaku
Detailer:	L. Moreland
Sheet Subset:	DR-PLAN
Subset Sheets:	7 of 18

Project No./Code
IM 0253-255
21506
Sheet Number 293

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PROFILE SHEET	LINE	ID	STATION/OFFSET	HCL	ITEM	LENGTH	PAY DEPTH	MISC NOTES
12	DD-8	FES-DD-3955D	121+22.92, 34.74' RT.	EAST FRONTAGE RD	24" RCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-DD-3955			24" RCP	47'		
		FES-DD-3955U	121+81.54, 37.39' RT.	EAST FRONTAGE RD	24" RCES			
13	EE-1	FES-EE-3958-1D	3957+89.10, 177.48' LT.	NB I-25	30" RCES			RIPRAP APRON D50=9" - SEE DRAINAGE DETAILS
		P-EE-3958-1			30" RCP	125'		
		IN-EE-3958-1	3957+83.53, 43.27' LT.	NB I-25	INLET TYPE D		5'	DIKE AFTER INLET - SEE DRAINAGE DETAILS SLOPE AND DITCH PAVING REQD (SEE CDOT M&S STANDARD M-604-10)
		P-EE-3958-2			24" RCP	92'		
		FES-EE-3958-2U	3957+79.64, 56.47' RT.	NB I-25	24" RCES			

Print Date: 10/15/2020	
File Name: 21506HYD_019-Plan-Sheets 7-12-S5M.dgn	
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Date:	Comments	Init.



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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
NB & SB I-25
DRAINAGE PLAN

Designer: J. Shintaku

Detailer: L. Moreland

Sheet Subset: DR-PLAN

Structure
Numbers

Subset Sheets: 7t of 18

Project No./Code

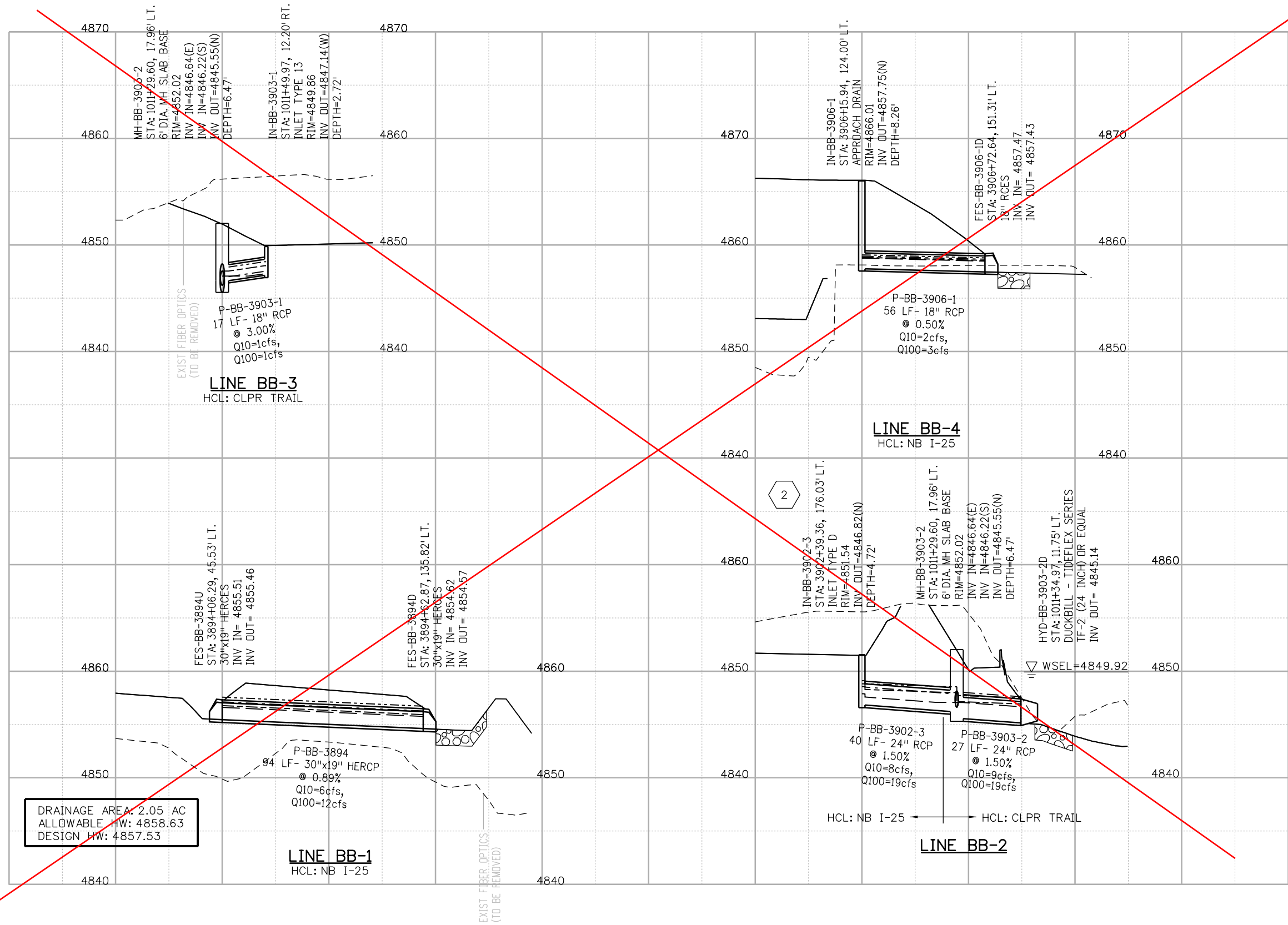
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21506

Sheet
Number

294

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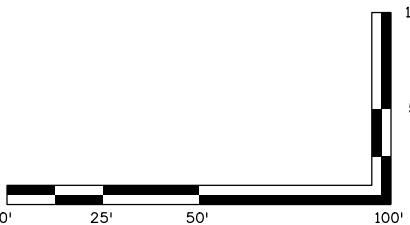
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- EXISTING GROUND
- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
- RIPRAP APRON
SEE DRAINAGE
DETAILS
- DITCH PAVING

NOTE:

ALL UTILITY CROSSINGS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ENGINEER MUST BE NOTIFIED IF ANY CONFLICTS OCCUR.

KEY NOTES:

- FLARED END SECTION SHALL HAVE A CONCRETE TOE WALL. SEE DRAINAGE DETAILS.
- INLET SLOPE AND DITCH PAVING REQUIRED. SEE CDOT M&S STANDARD M-604-10.
- PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- TO BE RELOCATED BY OTHERS.



Print Date: 10/15/2020
File Name: 21506HYD_019-Profile-I-25-S5M.dgn
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Revised:

Void:

NORTH I-25 EXPRESS LANES
SYSTEM BB
DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD
Structure Numbers
Subset Sheets: 2 of 32

Project No./Code

IM 0253-255

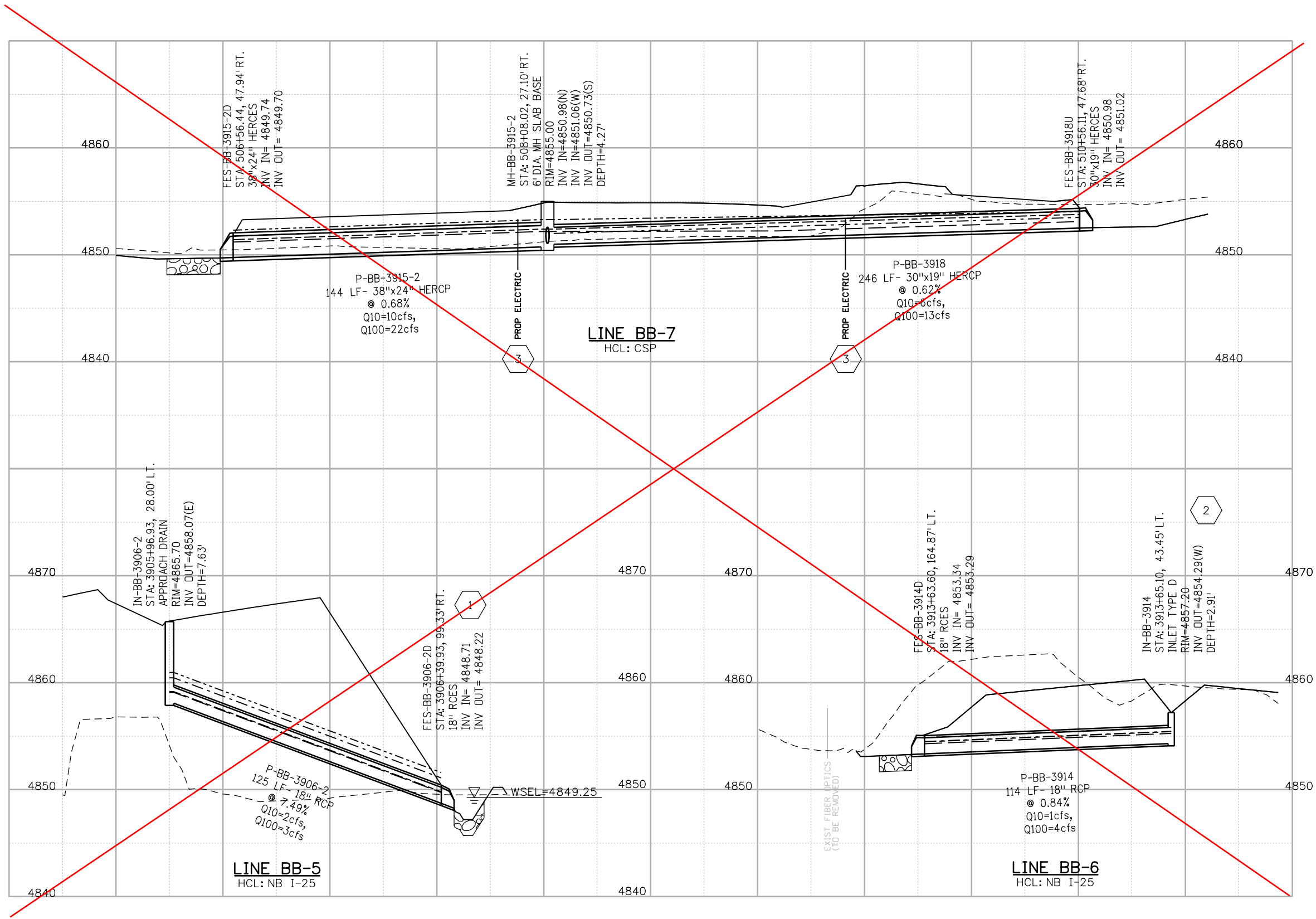
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Sheet Number

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Segment 5M - RFC - CDOT - 10.19.2020

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LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
- RIPRAP APRON
SEE DRAINAGE
DETAILS
- DITCH PAVING

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- TO BE RELOCATED BY OTHERS.

Print Date: 10/15/2020
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Void:

NORTH I-25 EXPRESS LANES SYSTEM BB DRAINAGE PROFILE

Designer:	J. Shintaku	Structure	
Detailer:	K. Brewer	Numbers	
Sheet Subset:	DR-PRD	Subset Sheets:	3 of 32

Project No./Code

IM 0253-255

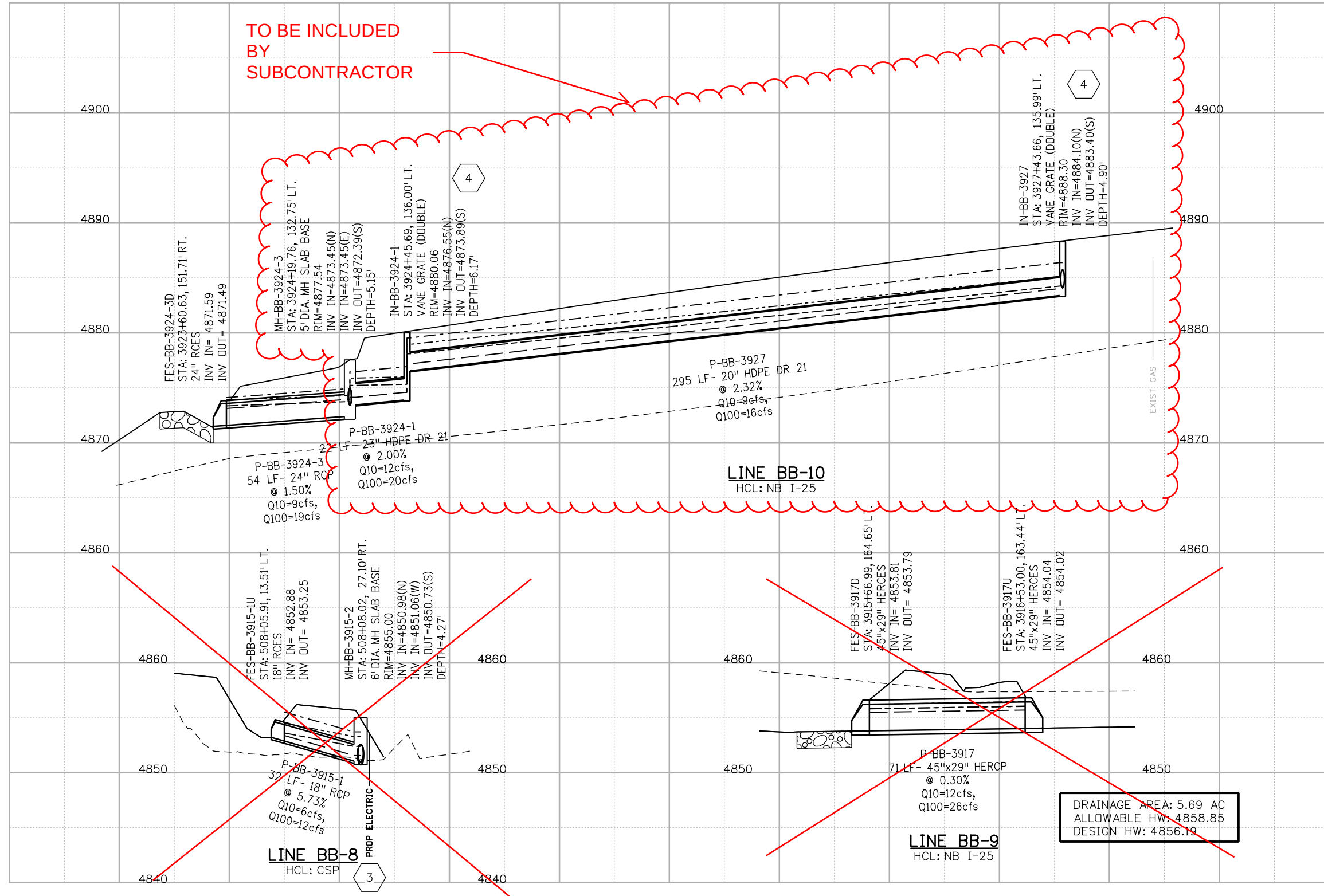
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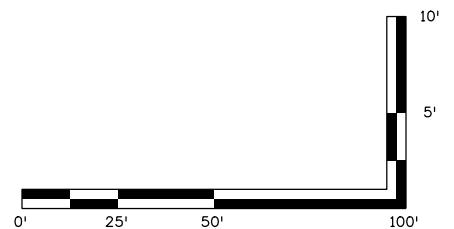
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- 10-YR EGL
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- RIPRAP APRON
SEE DRAINAGE
DETAILS
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- TO BE RELOCATED BY OTHERS.



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NORTH I-25 EXPRESS LANES SYSTEM BB DRAINAGE PROFILE

Designer:	J. Shintaku	Structure	
Detailer:	K. Brewer	Numbers	
Sheet Subset:	DR-PRD	Subset Sheets:	4 of 32

Project No./Code

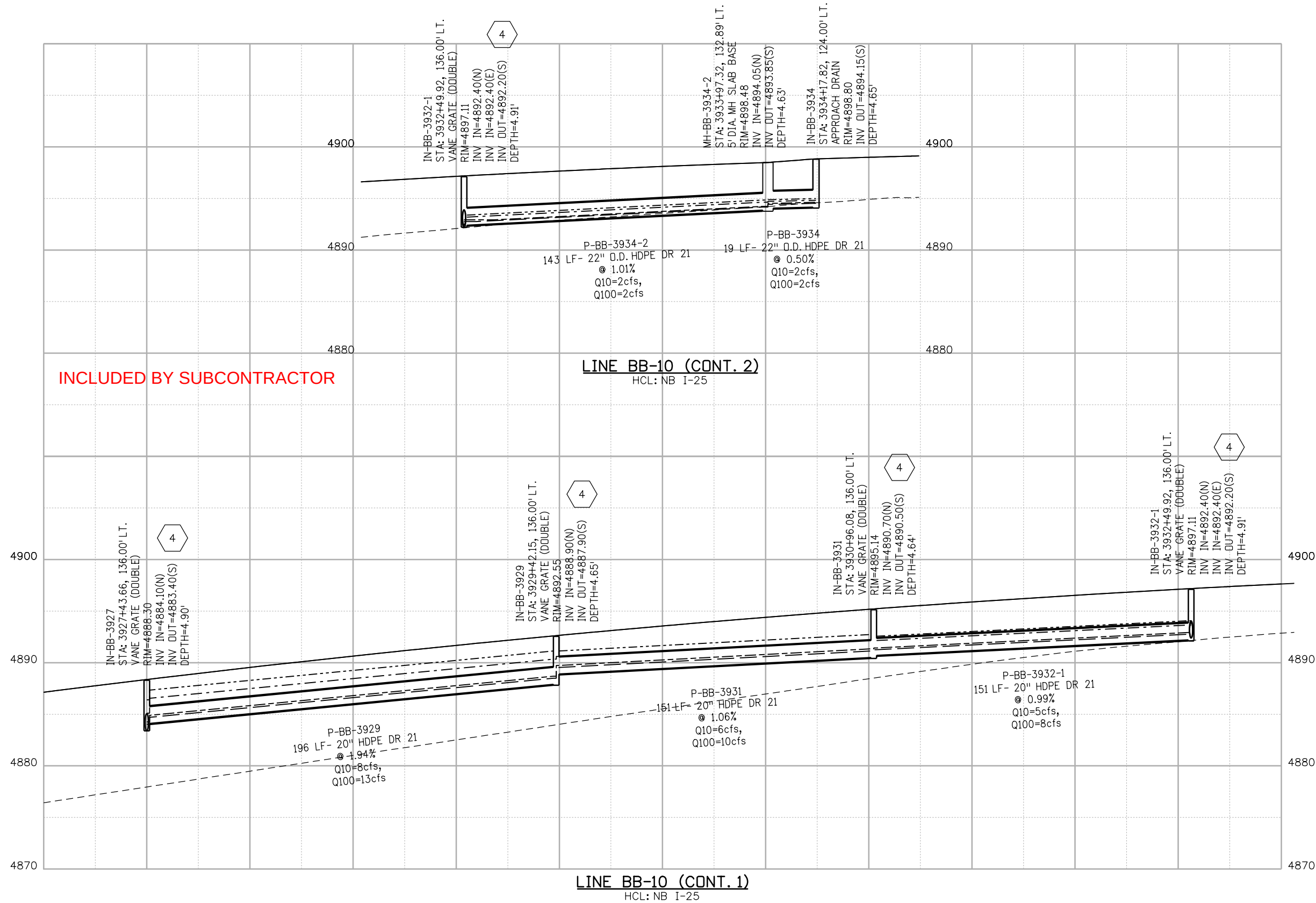
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Sheet Number 318

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LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
- RIPRAP APRON
SEE DRAINAGE
DETAILS
- DITCH PAVING

NOTE:

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KEY NOTES:

- FLARED END SECTION SHALL HAVE A CONCRETE TOE WALL. SEE DRAINAGE DETAILS.
- INLET SLOPE AND DITCH PAVING REQUIRED. SEE CDOT M&S STANDARD M-604-10.
- PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- TO BE RELOCATED BY OTHERS.

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NORTH I-25 EXPRESS LANES SYSTEM BB DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD

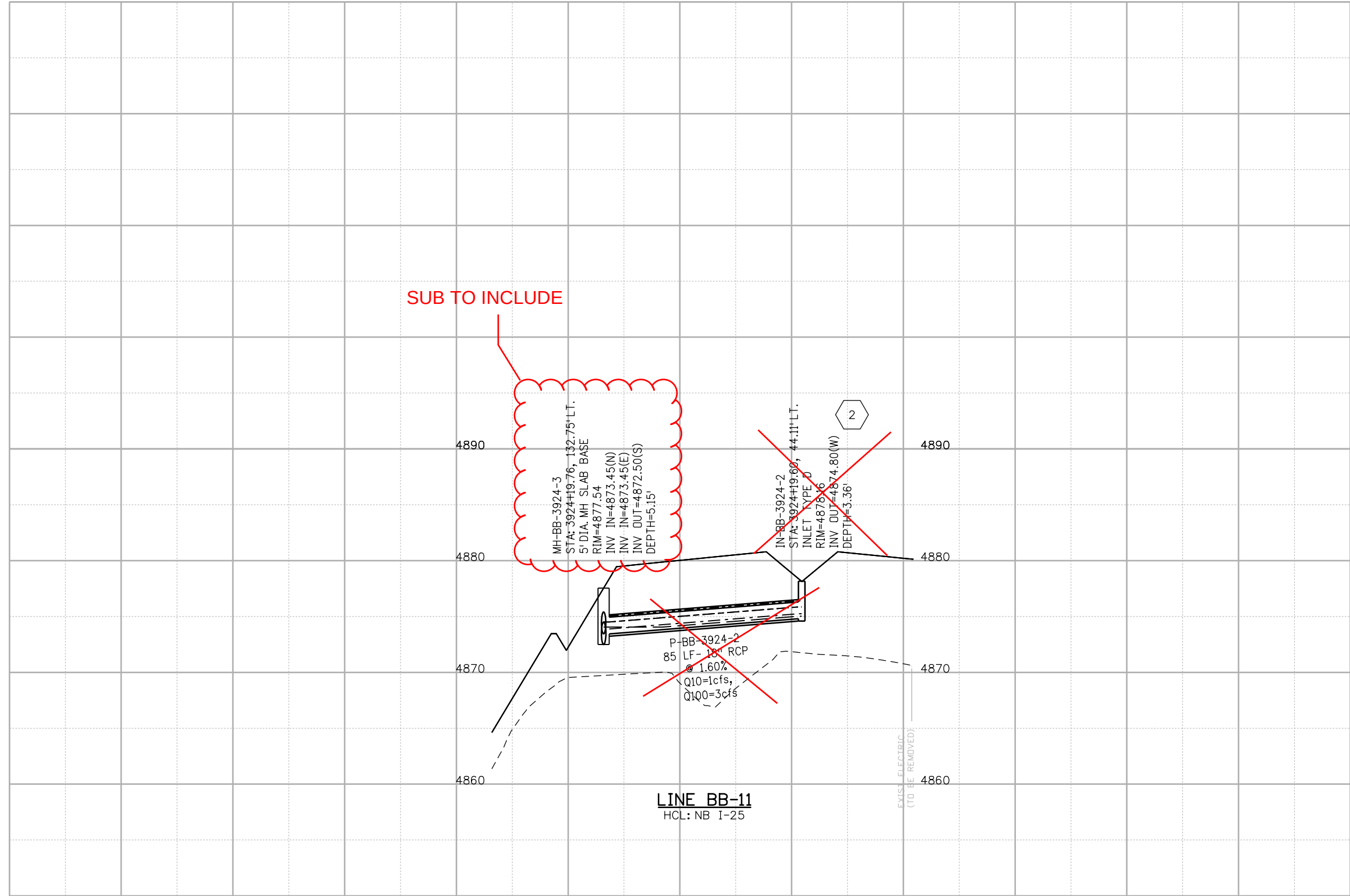
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Project No./Code

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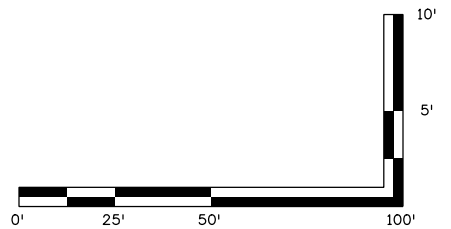
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SEE DRAINAGE
DETAILS
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- TO BE RELOCATED BY OTHERS.



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NORTH I-25 EXPRESS LANES SYSTEM BB DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD

Structure
Numbers

Subset Sheets: 6 of 32

Project No./Code

IM 0253-255

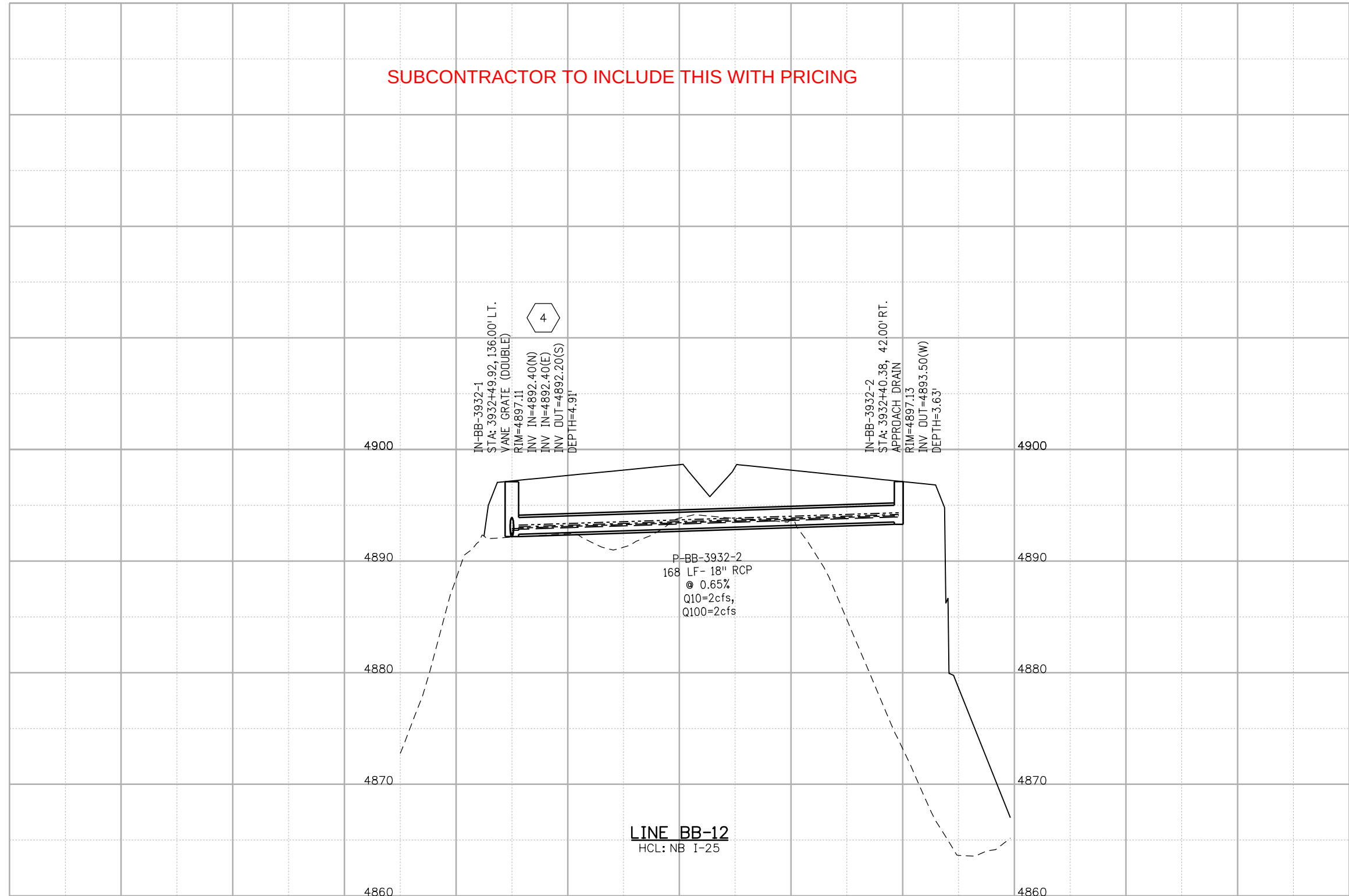
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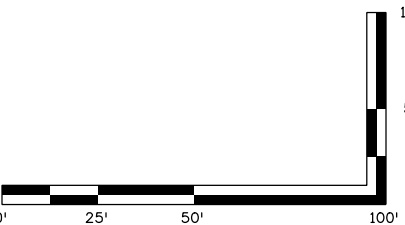
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SEE DRAINAGE
DETAILS
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- INLET SLOPE AND DITCH PAVING REQUIRED. SEE CDOT M&S STANDARD M-604-10.
- PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- TO BE RELOCATED BY OTHERS.



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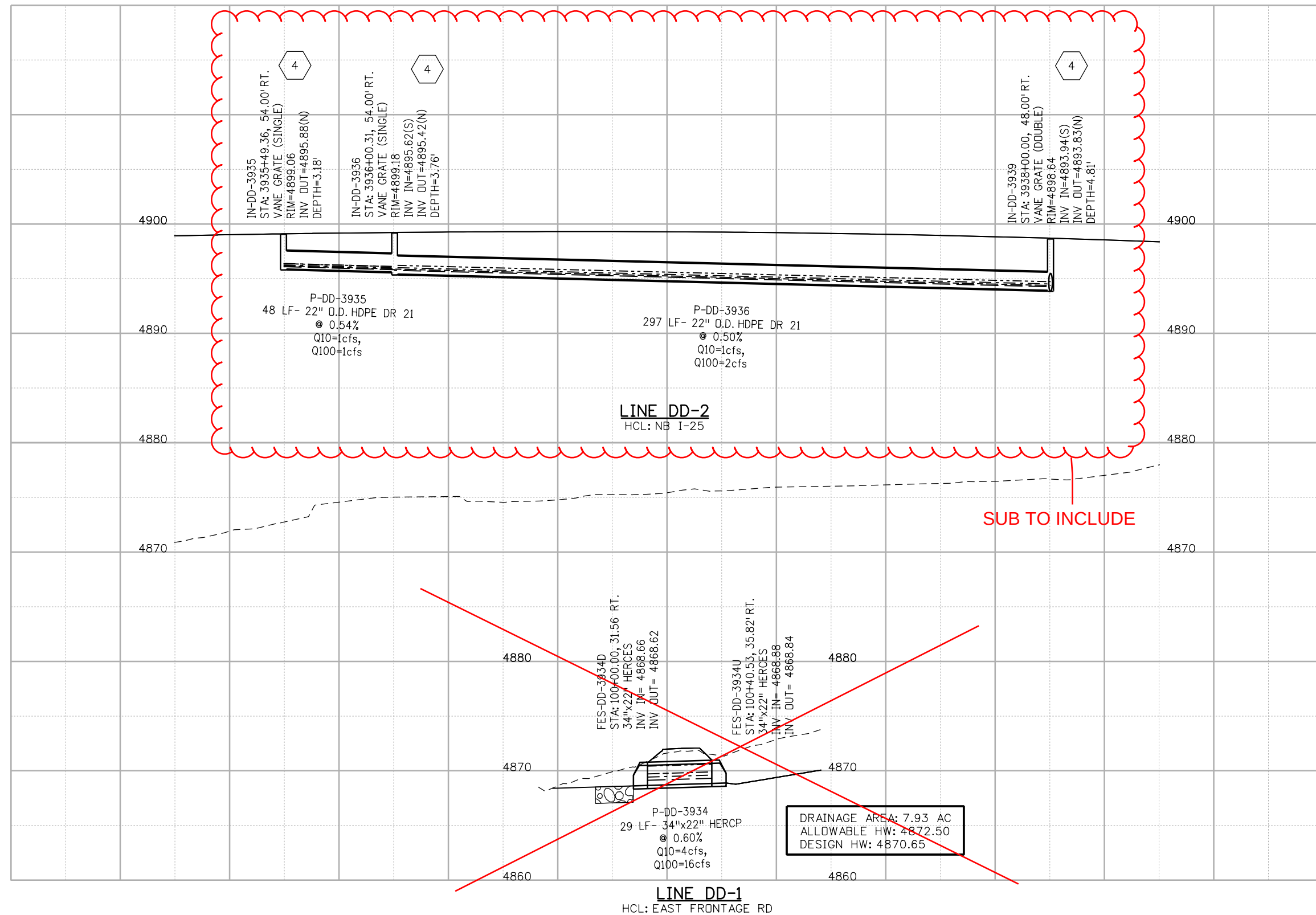
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Region 4

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As Constructed		NORTH I-25 EXPRESS LANES SYSTEM BB DRAINAGE PROFILE		Project No./Code	
No Revisions:		Designer: J. Shintaku		IM 0253-255	
Revised:		Detailer: K. Brewer		21506	
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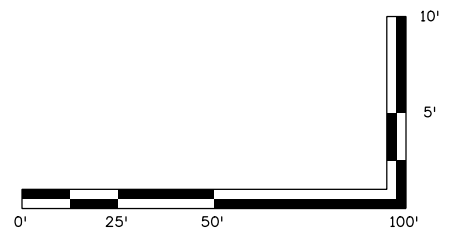
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|  | 100-YR EGL |
|  | 100-YR HGL |
|  | RIPRAP APRON
SEE DRAINAGE
DETAILS |
|  | DITCH PAVING |

NOTE:

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KEY NOTES:

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- 2 INLET SLOPE AND DITCH PAVING REQUIRED. SEE CDOT M&S STANDARD M-604-10.
- 3 PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- 4 CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- 5 TO BE RELOCATED BY OTHERS.



Segment 5M - RFC - CDOT - 10.19.2020

Print Date: 10/15/2020	
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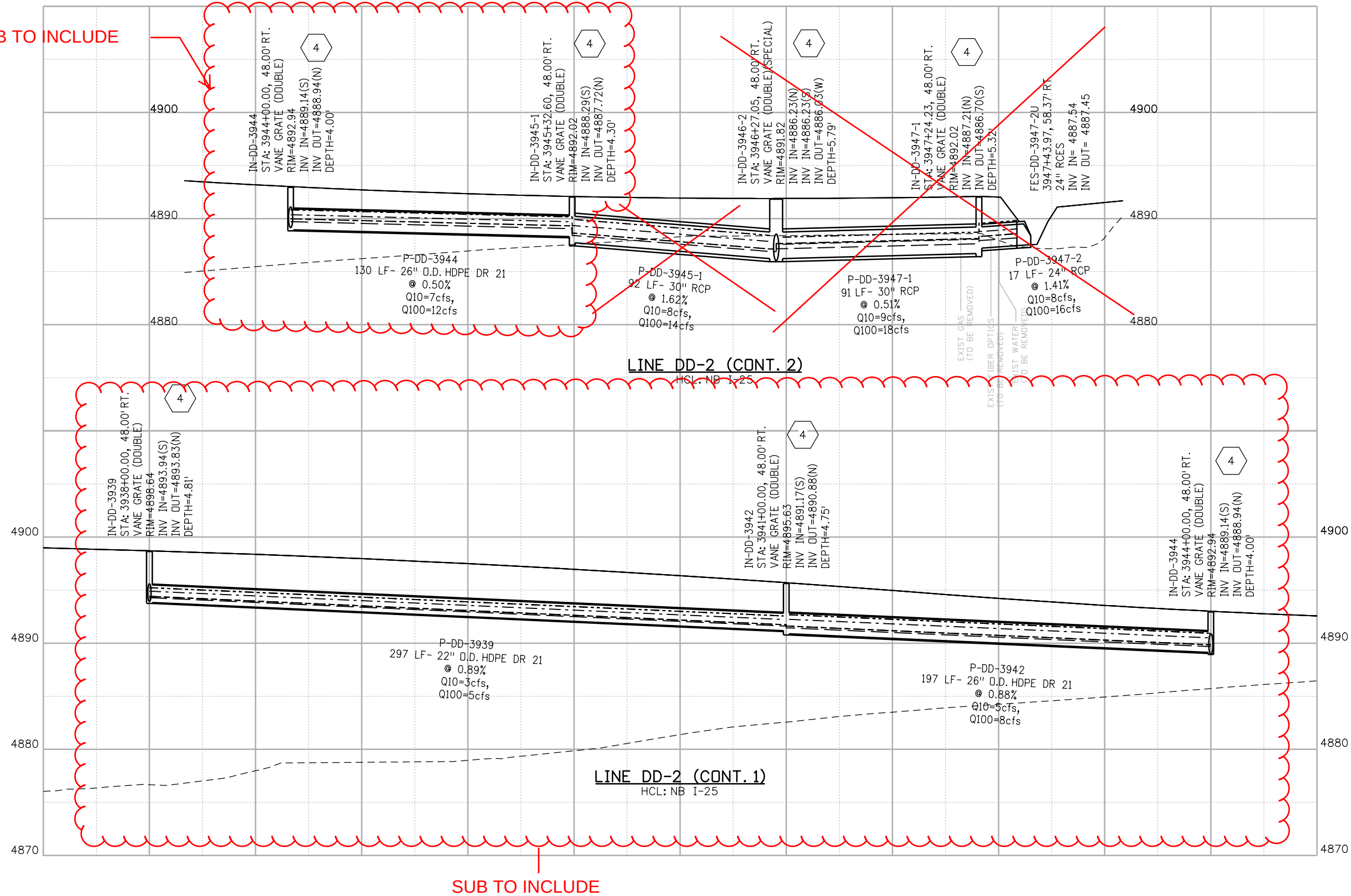


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As Constructed	NORTH I-25 EXPRESS LANES SYSTEM DD DRAINAGE PROFILE			Project No./Code
No Revisions:				IM 0253-255
Revised:	Designer: J. Shintaku	Structure		21506
	Detailer: K. Brewer	Numbers		
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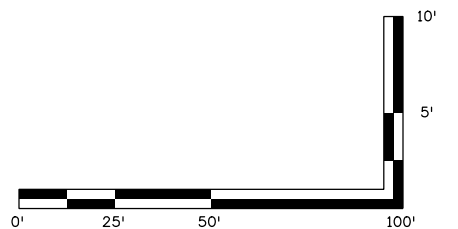
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- 10-YR HGL
- 100-YR EGL
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- PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- TO BE RELOCATED BY OTHERS.



Print Date: 10/15/2020
File Name: 21506HYD_019-Profile-I-25-S5M.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES SYSTEM DD DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD
Structure Numbers
Subset Sheets: 9 of 32

Project No./Code

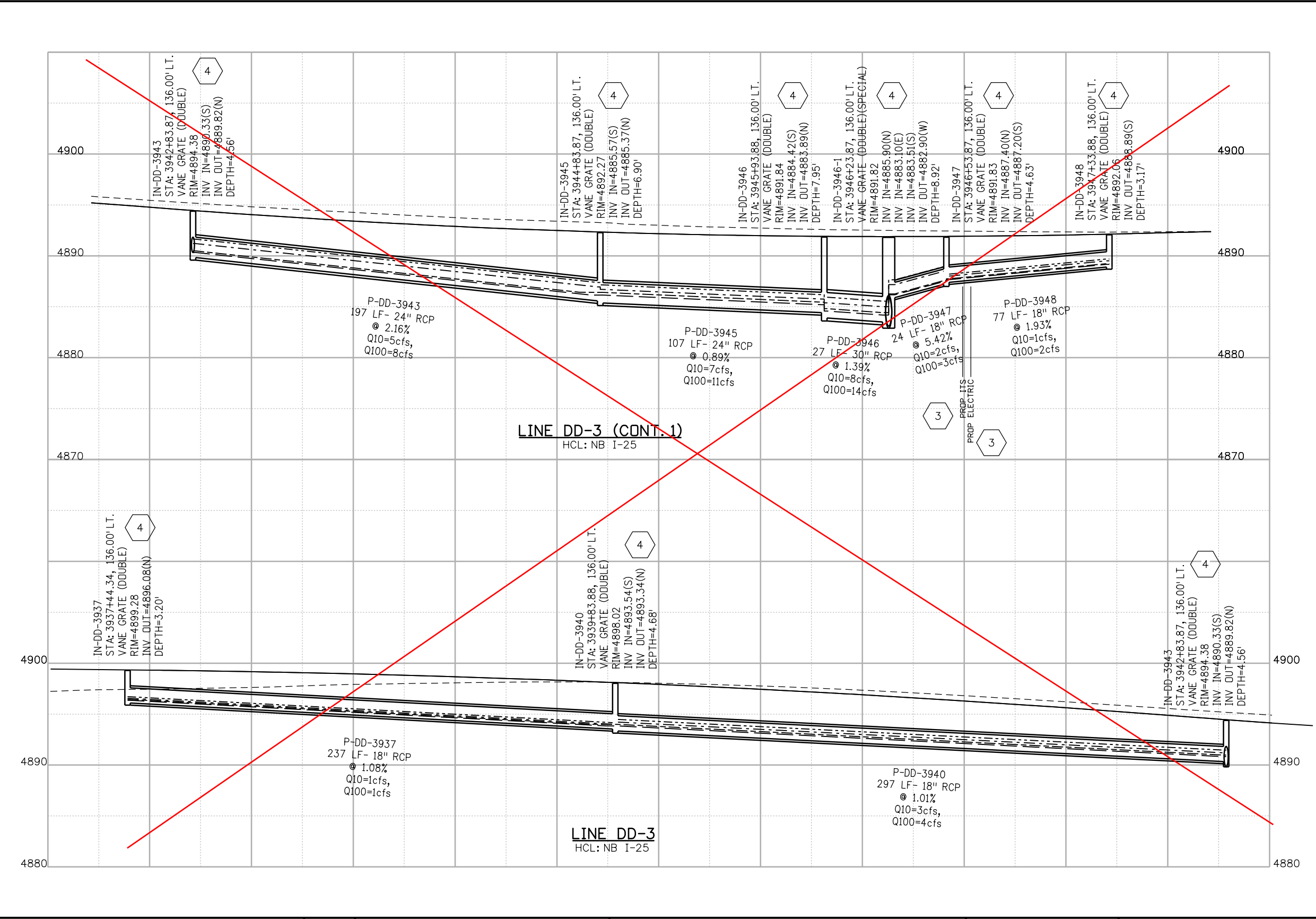
IM 0253-255

21506

Sheet Number 323

Segment 5M - RFC - CDOT - 10.19.2020

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LEGEND

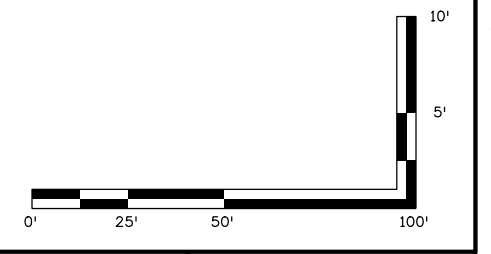
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- EXISTING GROUND
- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
- RIPRAP APRON
SEE DRAINAGE
DETAILS
- DITCH PAVING

NOTE:

ALL UTILITY CROSSINGS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ENGINEER MUST BE NOTIFIED IF ANY CONFLICTS OCCUR.

KEY NOTES:

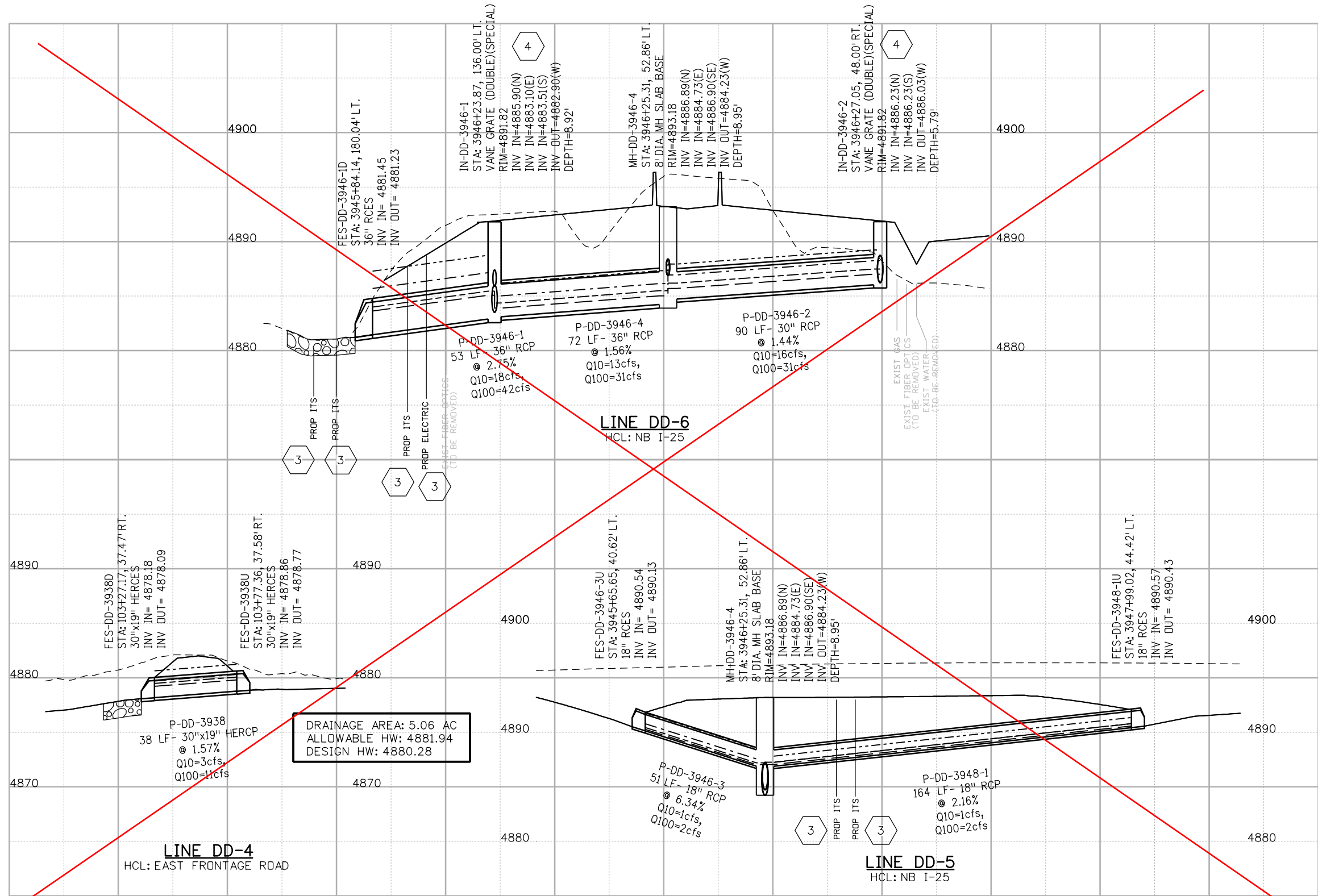
- 1 FLARED END SECTION SHALL HAVE A CONCRETE TOE WALL. SEE DRAINAGE DETAILS.
- 2 INLET SLOPE AND DITCH PAVING REQUIRED. SEE CDOT M&S STANDARD M-604-10.
- 3 PROPOSED UTILITIES VERTICAL ELEVATIONS HAVE NOT BEEN DESIGNED. INSTALLATION SHALL BE COORDINATED DURING CONSTRUCTION.
- 4 CONCRETE APRON REQUIRED. SEE CDOT M&S STANDARD M-604-25.
- 5 TO BE RELOCATED BY OTHERS.



Print Date: 10/15/2020		Sheet Revisions		Colorado Department of Transportation		As Constructed		NORTH I-25 EXPRESS LANES SYSTEM DD DRAINAGE PROFILE		Project No./Code	
File Name: 21506HYD_019-Profile-I-25-S5M.dgn											
Horiz. Scale: 1:50		Date:		Comments		Revised:		Designer: J. Shintaku		IM 0253-255	
Vert. Scale: As Noted		Init.		10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530		Void:		Detailer: K. Brewer		21506	
RS&H		Region 4		CJS		Sheet Subset: DR-PRD		Subset Sheets: 10 of 32		Sheet Number 324	
KRAEMER											
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Segment 5M - RFC - CDOT - 10.19.2020

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LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
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SEE DRAINAGE
DETAILS
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Print Date: 10/15/2020
File Name: 21506HYD_019-Profile-I-25-S5M.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 4

10601 West 10th Street
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Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES SYSTEM DD DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD

Structure
Numbers

Subset Sheets: 11 of 32

Project No./Code

IM 0253-255

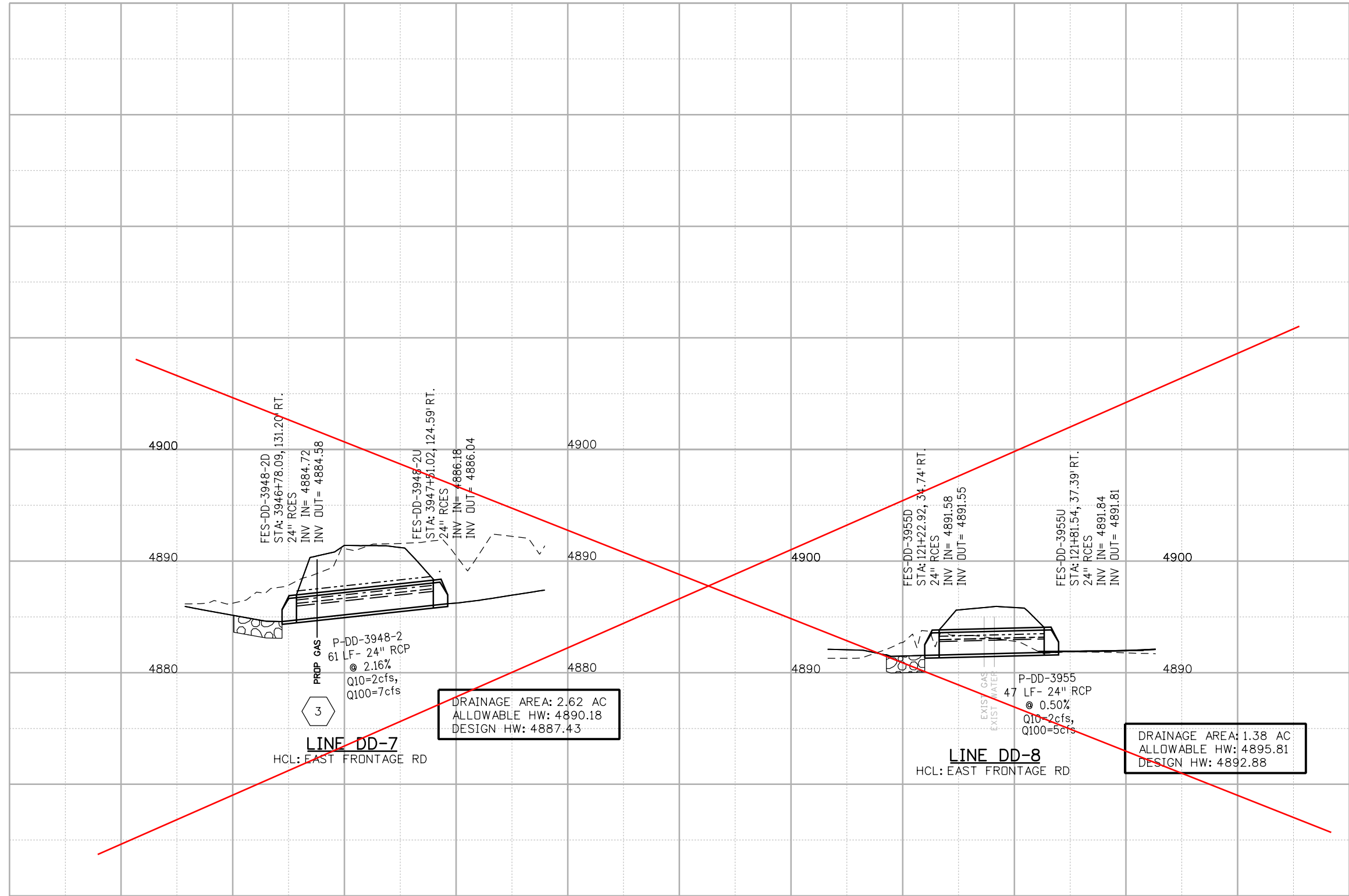
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Sheet
Number

325

Segment 5M - RFC - CDOT - 10.19.2020

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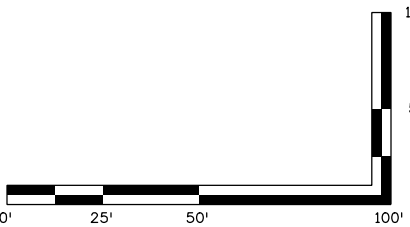
- PROPOSED GRADE
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- 10-YR EGL
- 10-YR HGL
- 100-YR EGL
- 100-YR HGL
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SEE DRAINAGE
DETAILS
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Print Date: 10/15/2020
File Name: 21506HYD_019-Profile-I-25-S5M.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 4

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CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
SYSTEM DD
DRAINAGE PROFILE

Designer: J. Shintaku
Detailer: K. Brewer
Sheet Subset: DR-PRD

Structure
Numbers

Subset Sheets: 12 of 32

Project No./Code

IM 0253-255

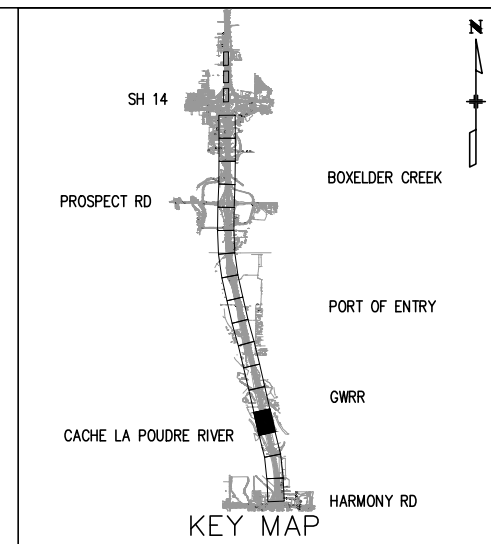
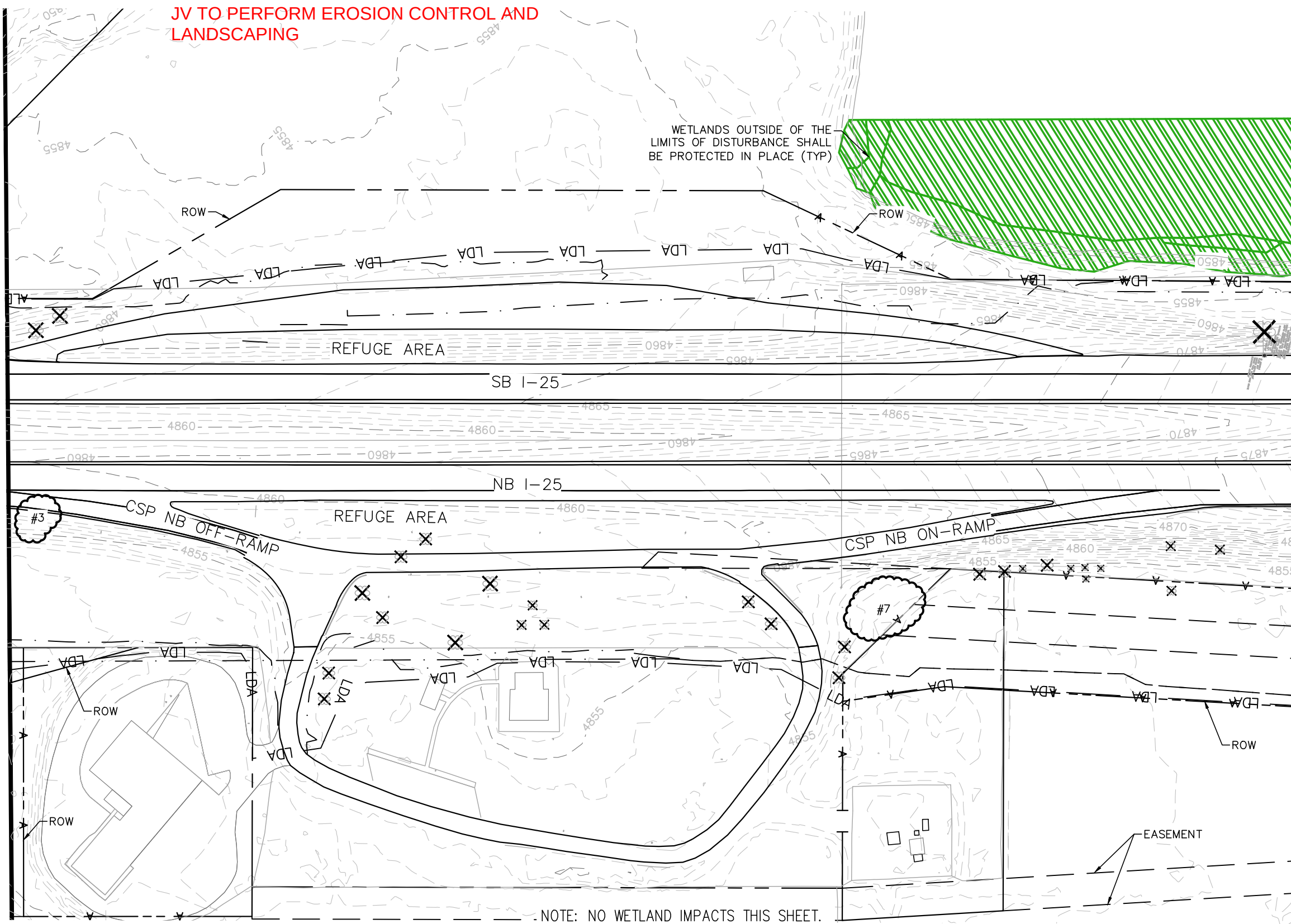
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Sheet
Number

326

Segment 5M - RFC - CDOT - 10.19.2020

MATCH LINE STA 3914+00
HCL NB I-25

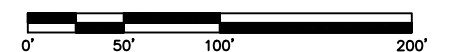


NOTES

1. WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED. LOCATION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO REMOVAL. WETLAND TOPSOIL SHALL BE PROTECTED FOR DURATION OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ASSURING THE MMP IS IMPLEMENTED.
2. NO WORK SHALL BE PERMITTED WITHIN WETLANDS, WATERS OF THE US, or PMJM HABITAT WITHOUT APPROVAL FROM ENVIRONMENTAL MANAGER.

LEGEND

- LDA LIMITS OF DISTURBANCE
- EXISTING WETLANDS
- TEMPORARY WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED. (TOTAL QTY. 1,337 CY)
- PERMANENT WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED.. (TOTAL QTY. 2,254 CY)
- PERMANENT WETLAND IMPACTS SHALL BE MITIGATED BY CDOT. (TOTAL QTY. 1.40 AC)
- TOE OF FILL
- TOP OF CUT
- TEMPORARY WETLAND IMPACTS (OPEN WATER)(FOR INFORMATION ONLY) (TOTAL QTY. 0.25 AC)
- PERMANENT WETLAND IMPACTS (OPEN WATER)(FOR INFORMATION ONLY) IMPACTS SHALL BE MITIGATED BY CDOT.(TOTAL QTY. 0.09 AC)
- DEMO SINGLE (QTY: 116)
- DEMO GROUP (QTY: 166)



Print Date:10/15/2020

File Name:

Horiz. Scale: 1"= 100'

Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



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Region 4

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NOT FOR CONSTRUCTION

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES SEGMENT 5M/POUDRE LANDSCAPE DEMOLITION PLANS

Designer: SS

Detailer: DO

Sheet Subset:LANDSCAPE

Structure
Numbers

Subset Sheets: 4 of 41

Project No./Code

IM 0253-255

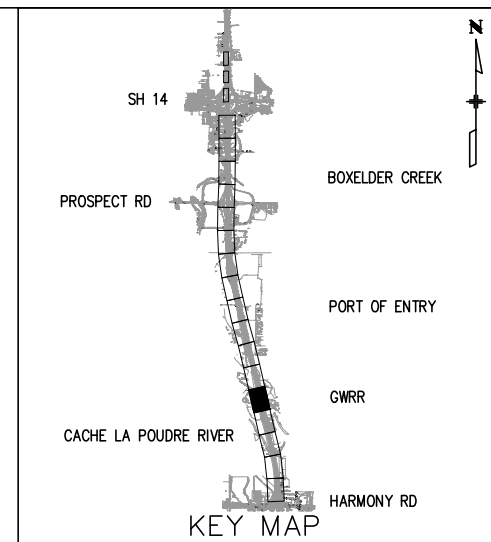
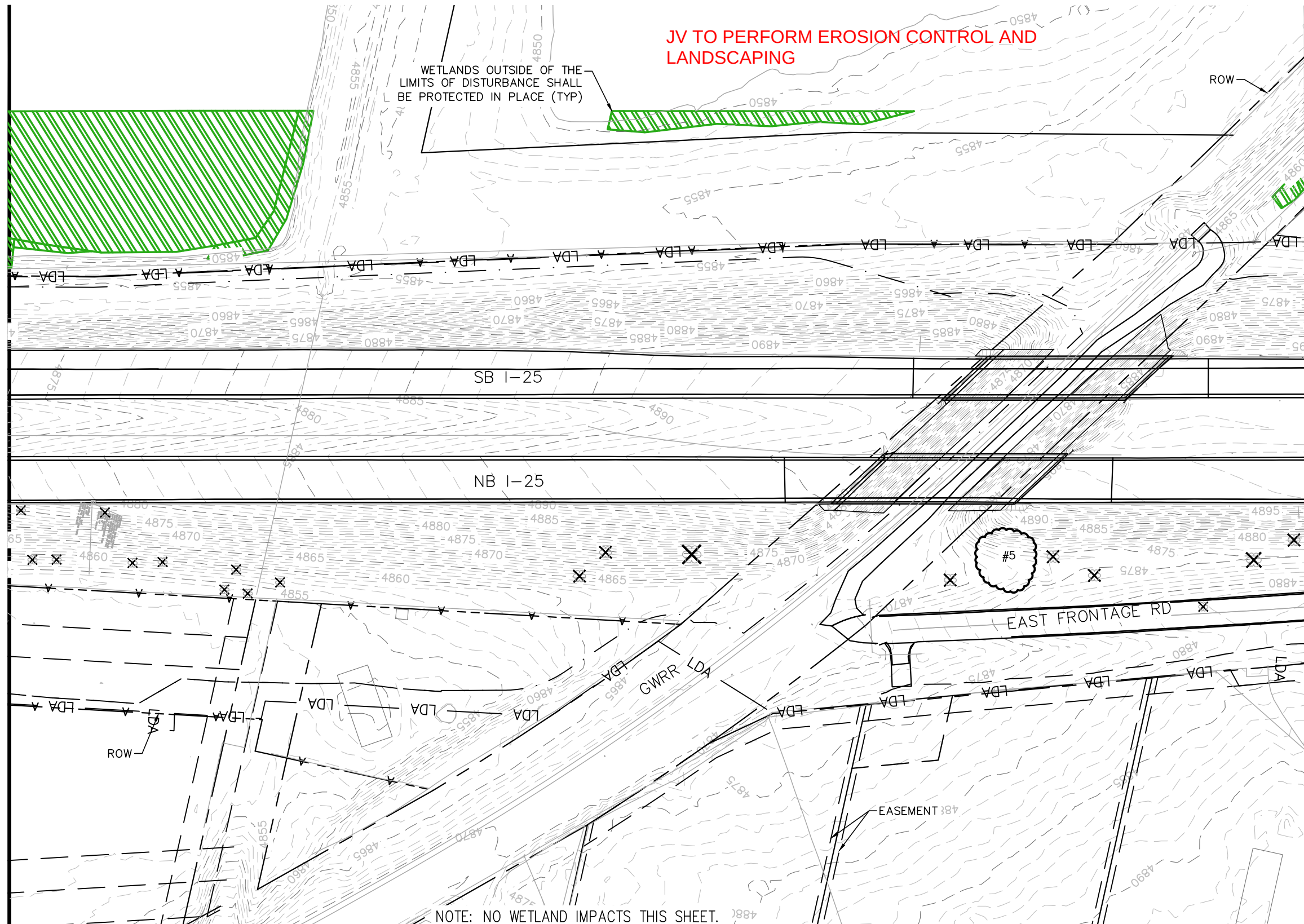
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Sheet
Number 364

Segment 5M - RFC - CDOT - 10.19.2020

MATCH LINE STA 3926+00
HCL NB I-25

MATCH LINE STA 3938+00
HCL NB I-25

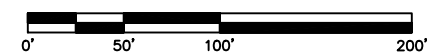


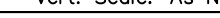
NOTES

1. WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED. LOCATION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO REMOVAL. WETLAND TOPSOIL SHALL BE PROTECTED FOR DURATION OF CONSTRUCTION.
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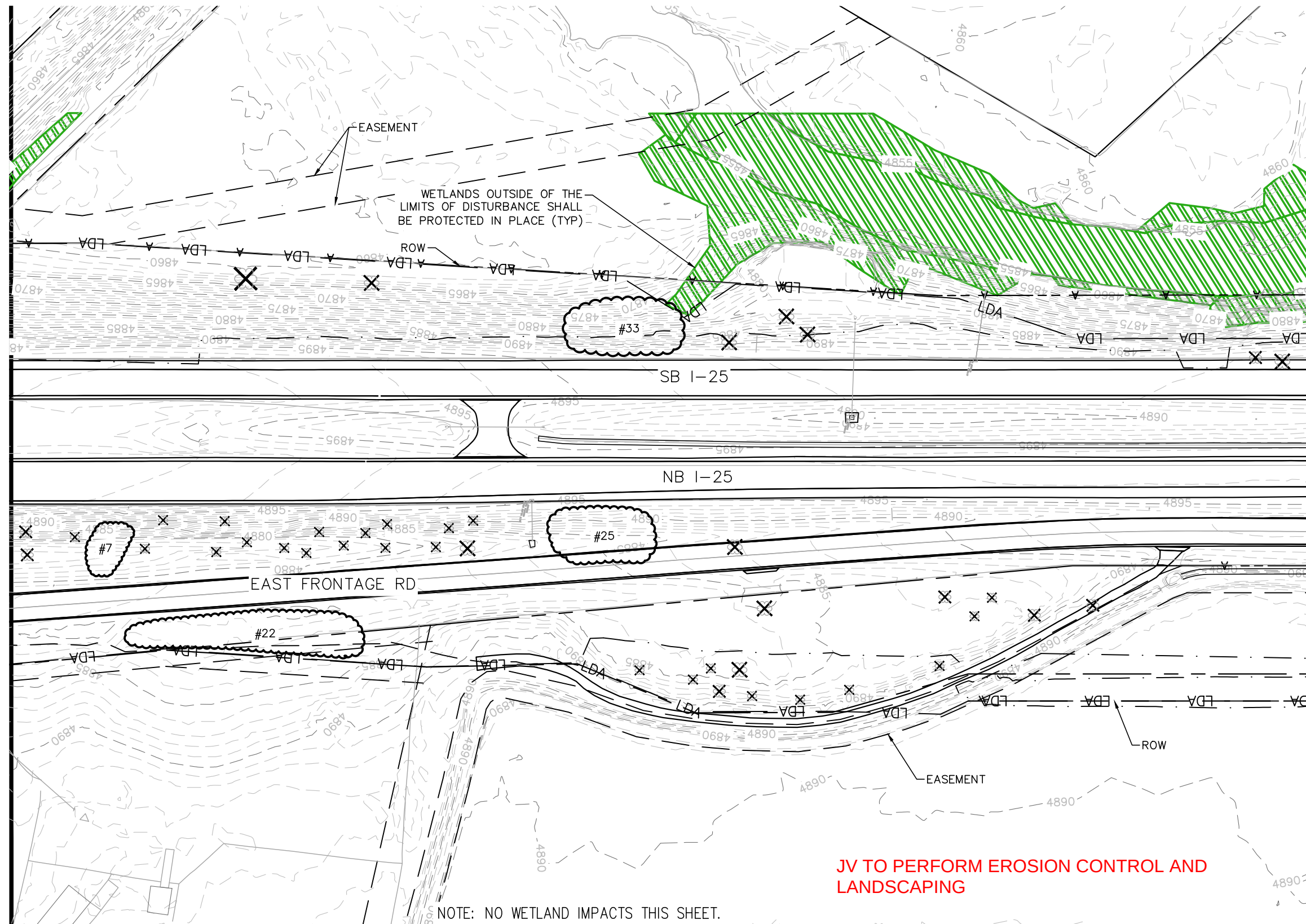
LEGEND

- LDA — LIMITS OF DISTURBANCE
- EXISTING WETLANDS
- TEMPORARY WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED. (TOTAL QTY. 1,337 CY)
- PERMANENT WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED.. (TOTAL QTY. 2,254 CY)
- PERMANENT WETLAND IMPACTS SHALL BE MITIGATED BY CDOT. (TOTAL QTY. 1.40 AC)
- TOE OF FILL
- TOP OF CUT
- TEMPORARY WETLAND IMPACTS (OPEN WATER)(FOR INFORMATION ONLY) (TOTAL QTY. 0.25 AC)
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- DEMOS SINGLE (QTY: 116)
- DEMOS GROUP (QTY: 166)



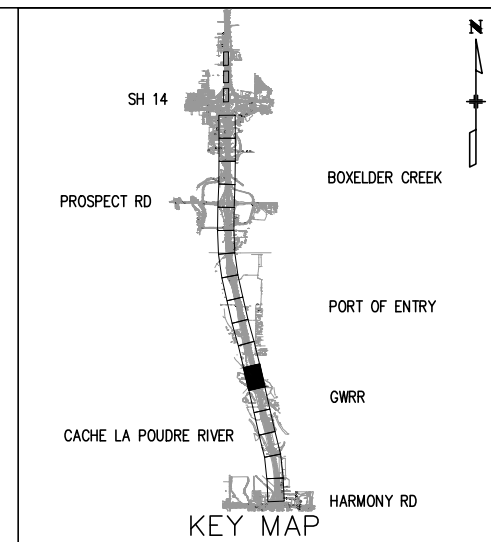
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File Name:										IM 0253-255		
Horiz. Scale: 1"= 100'		Vert. Scale: As Noted								21506		
 associates inc. 2953 South Peoria Street, Ste 101 Aurora, Colorado 80014 303-770-7201 FAX 770-7132   a joint venture											Sheet Number 365	
Colorado Department of Transportation					 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530							
Region 4					CJS							

MATCH LINE STA 3938+00
HCL NB I-25



JV TO PERFORM EROSION CONTROL AND
LANDSCAPING

NOTE: NO WETLAND IMPACTS THIS SHEET.

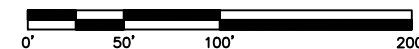


NOTES

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LEGEND

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- EXISTING WETLANDS
- TEMPORARY WETLAND TOPSOIL SHALL BE REMOVED AND STOCKPILED. (TOTAL QTY. 1,337 CY)
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Print Date:10/15/2020

File Name:

Horiz. Scale: 1"= 100'

Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



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Region 4

CJS

NOT FOR CONSTRUCTION

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES SEGMENT 5M/POUDRE LANDSCAPE DEMOLITION PLANS

Designer: SS

Detailer: DO

Sheet Subset:LANDSCAPE

Structure
Numbers

Subset Sheets: 6 of 41

Project No./Code

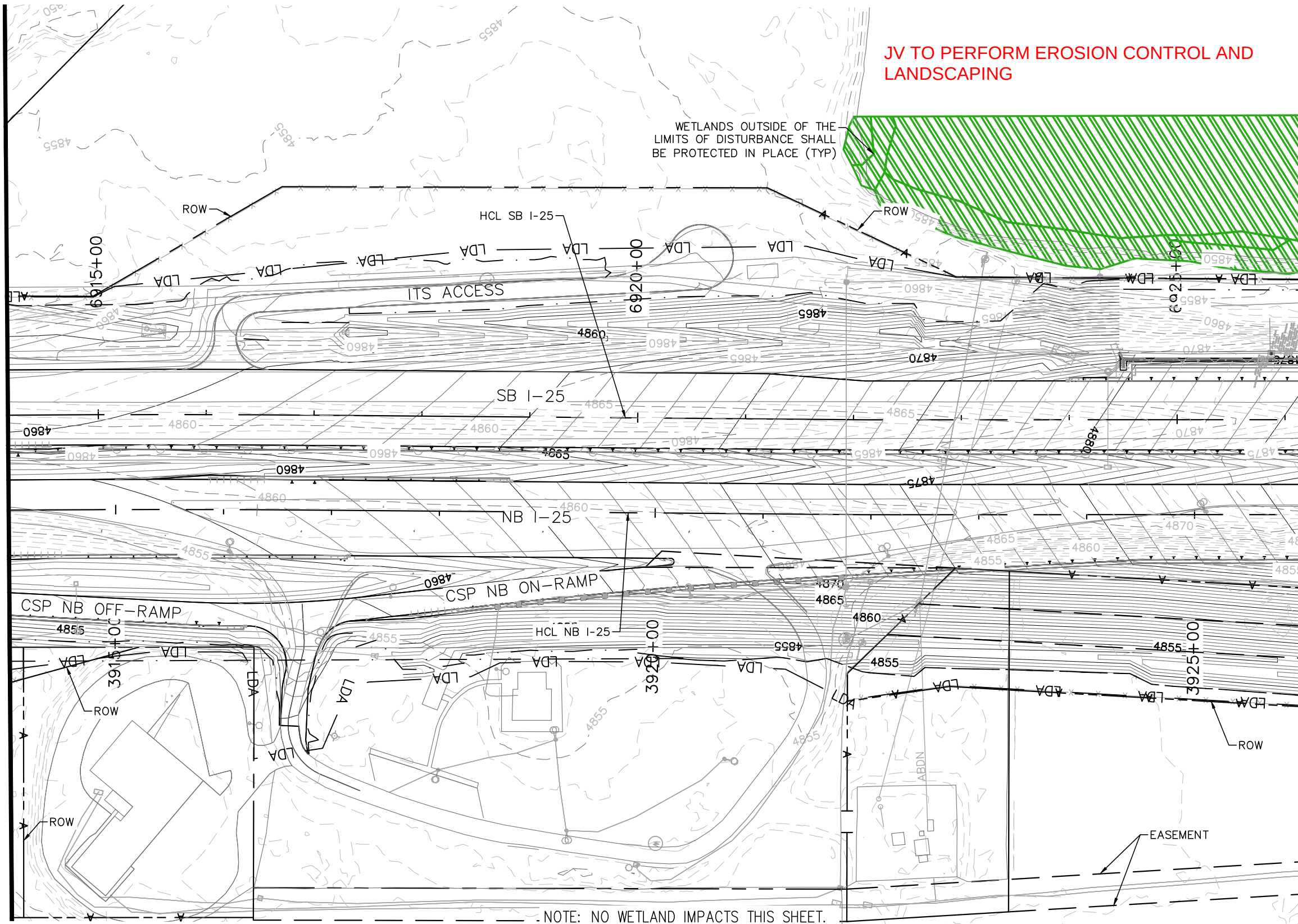
IM 0253-255

21506

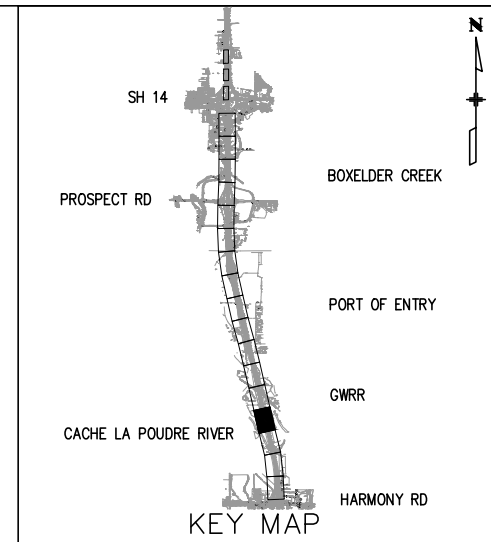
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Number 366

Segment 5M - RFC - CDOT - 10.19.2020

MATCH LINE STA 3914+00
HCL NB I-25



NOTE: NO WETLAND IMPACTS THIS SHEET.

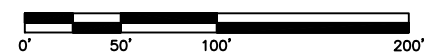


NOTES

1. ALL IMPACTED LANDSCAPING AND IRRIGATION SHALL BE RESTORED IN KIND.
2. SEE STORMWATER MANAGEMENT PLAN FOR NATIVE SEEDING, HYDRAULIC MULCHING, SOIL CONDITIONER AND HERBICIDE.
3. CONTRACTOR IS RESPONSIBLE FOR ASSURING THE MMP IS IMPLEMENTED. NO WORK SHALL BE PERMITTED WITHIN WETLANDS OR WATERS OF THE US WITHOUT APPROVAL FROM ENVIRONMENTAL MANAGER.

LEGEND

- LDA — LIMITS OF DISTURBANCE
- EXISTING WETLANDS
- WETLAND SEED MIX AND RELOCATED WETLAND TOPSOIL. TOPSOIL SHALL BE INSTALLED AT A DEPTH OF 12" (QTY. 1,337 CY)
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- - - - - TOE OF FILL
- - - - - TOP OF CUT
- TEMPORARY WETLAND IMPACTS (OPEN WATER)(FOR INFORMATION ONLY) (TOTAL QTY. 0.25 AC)
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Print Date:10/15/2020

File Name:

Horiz. Scale: 1"= 100'

Vert. Scale: As Noted



Sheet Revisions

Date:	Comments	Init.

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Revised:

Void:

NORTH I-25 EXPRESS LANES SEGMENT 5M/POUDRE LANDSCAPE PLANS

Designer: SS

Detailer: DO

Sheet Subset:LANDSCAPE

Structure

Numbers

Subset Sheets: 25 of 41

Project No./Code

IM 0253-255

21506

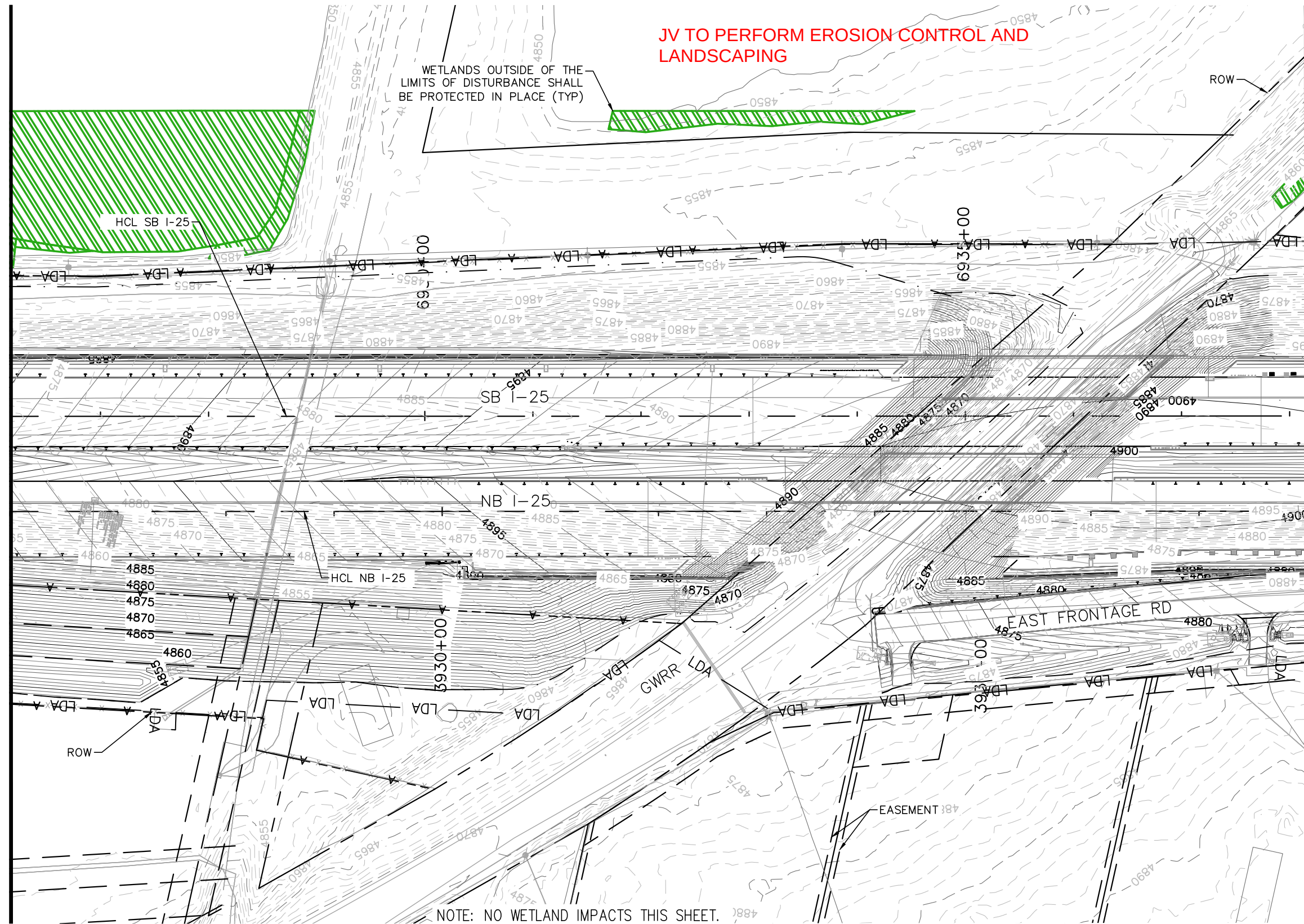
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Segment 5M - RFC - CDOT - 10.19.2020

MATCH LINE STA 3926+00
HCL NB I-25



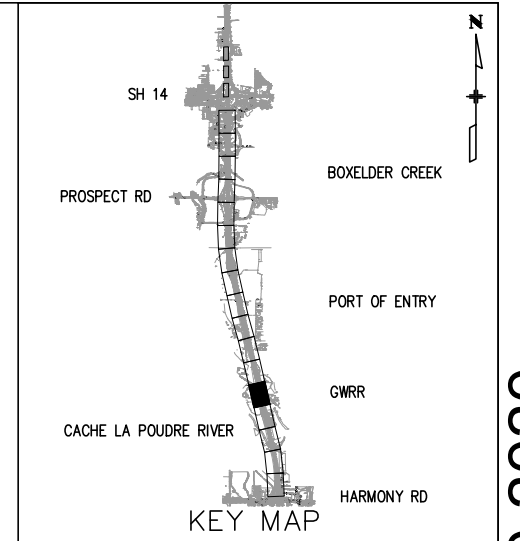
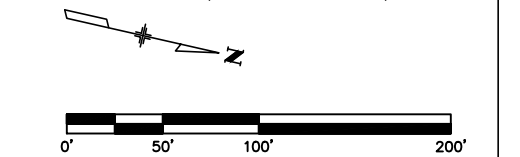
MATCH LINE STA 3938+00
HCL NB I-25

NOTES

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Print Date:10/15/2020
File Name:
Horiz. Scale: 1"= 100' Vert. Scale: As Noted



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Date:	Comments	Init.

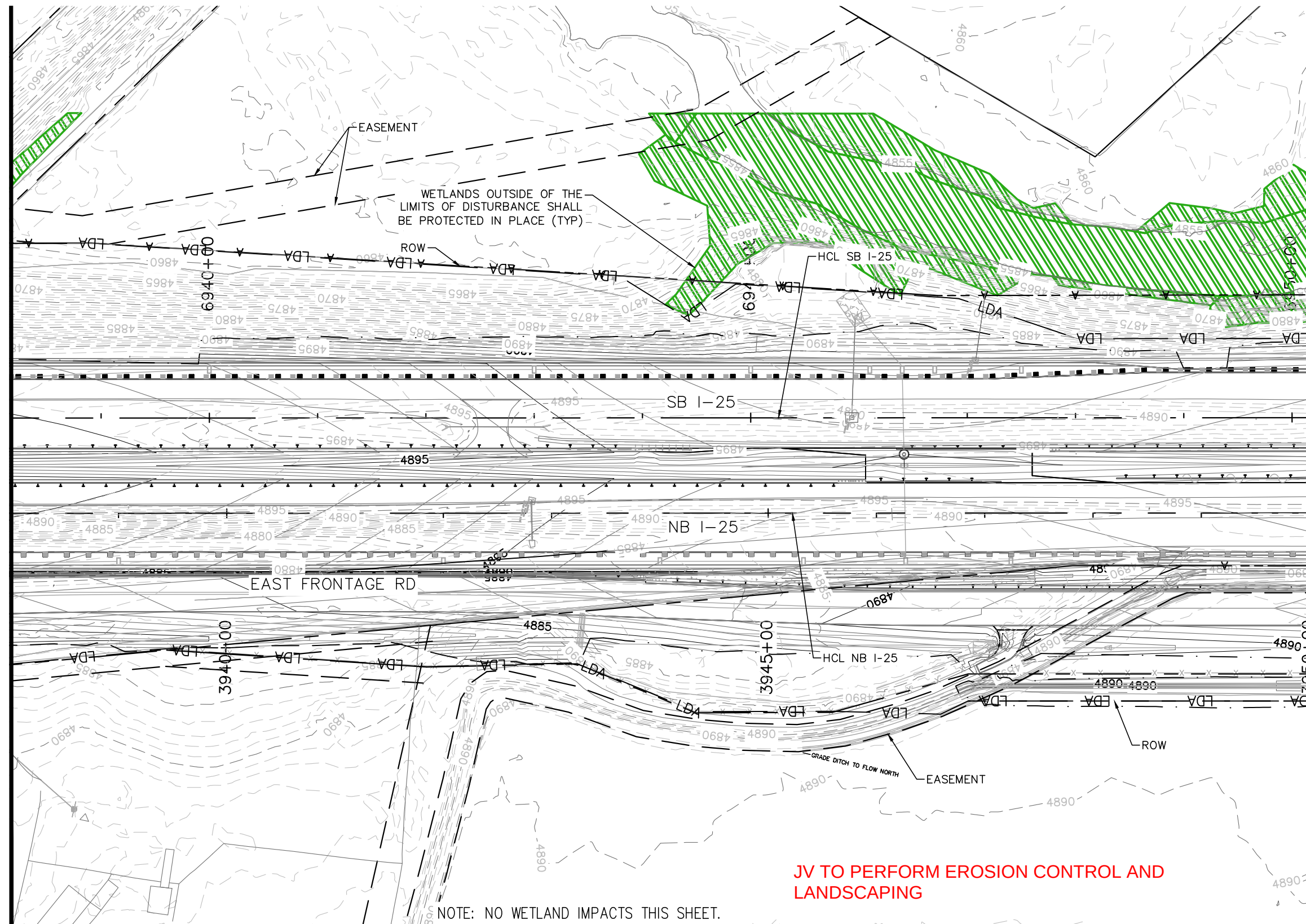
Colorado Department of Transportation

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4 CJS

NOT FOR CONSTRUCTION		NORTH I-25 EXPRESS LANES SEGMENT 5M/POUDRE LANDSCAPE PLANS		Project No./Code	
No Revisions:		Designer: SS		IM 0253-255	
Revised:		Detailer: DO		21506	
Void:		Sheet Subset:LANDSCAPE		Sheet Number 386	
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MATCH LINE STA 3938+00
HCL NB I-25



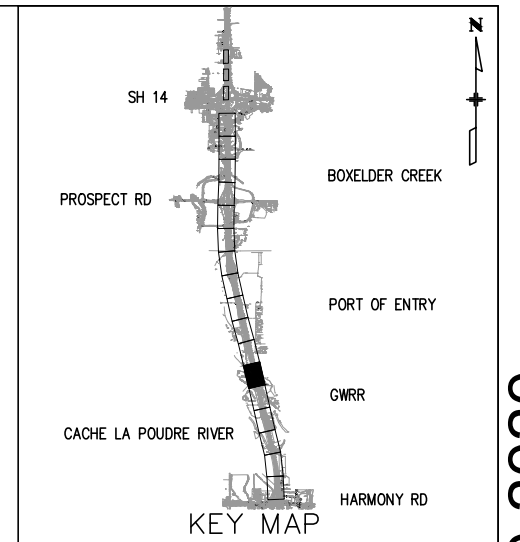
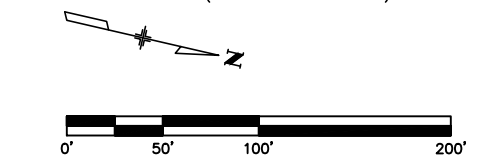
MATCH LINE STA 3950+00
HCL NB I-25

NOTES

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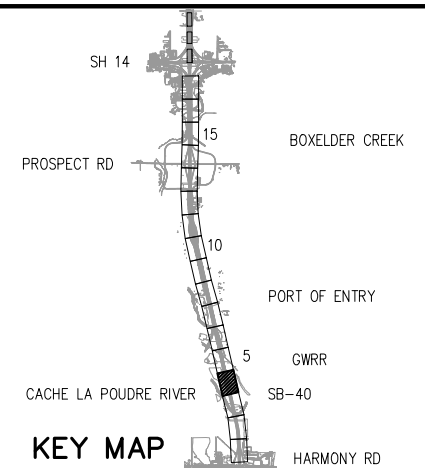


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File Name:										IM 0253-255		
Horiz. Scale: 1"= 100'		Vert. Scale: As Noted					No Revisions:		21506			
 associates inc. 2953 South Peoria Street, Ste 101 Aurora, Colorado 80014 303-770-7201 FAX 770-7132   a joint venture		Revised:					Designer: SS		Structure		Sheet Number 387	
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									Sheet Subset:LANDSCAPE			
Colorado Department of Transportation					Region 4		CJS					
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KEY MAP

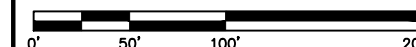
PERMANENT NOTES:

1. ALL FINAL SLOPES EXCEEDING 3:1 GRADE SHALL RECEIVE SOIL RETENTION BLANKET. USE BIODEGRADABLE SRB'S IN THE POND AND NEAR WETLANDS.
2. SEEDING (NATIVE), MULCHING (WEED FREE) AND MULCH TACKIFIERS SHALL BE REQUIRED FOR ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE WHICH ARE NOT TO BE PAVED. ADDITIONAL APPLICATIONS OF THOSE ITEMS MAY BE REQUIRED DUE TO RE-MOBILIZATIONS, SITE CONDITIONS, OR EROSION DUE TO RUNOFF OR CONSTRUCTION.
3. ONCE AN AREA HAS BEEN PERMANENT STABILIZED THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL IDENTIFY THE AREA ON THE PLANS AND DATE WHEN THE WORK WAS COMPLETED.
4. WETLAND SEED MIX TO BE USED WHERE DISTURBANCE OCCURS WITHIN WETLAND LIMITS.
5. ALL BMP'S SHALL BE INSTALLED ACCORDING TO M-208-1 AND SECTION 208, UNLESS MODIFIED AND APPROVED BY THE ENGINEER.
6. REMOVE INITIAL AND INTERIM EROSION CONTROL BMP'S AS DIRECTED BY THE ENGINEER.

LEGEND:

- WETLANDS
- PERIMETER CONTROL
- DISTURBED AREA LIMITS
- LIMIT OF CONSTRUCTION
- WETLAND PERIMETER FENCE

- SEEDING (NATIVE)
- PERMANENT WETLAND IMPACTS
- TEMPORARY WETLAND IMPACTS



MATCHLINE 3914+00
HCL NB I-25

SB I-25

HCL SB I-25

NB I-25

HCL NB I-25

CSP NB ON RAMP

MATCHLINE 3926+00
HCL NB I-25

Print Date: 10/15/2020
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Revised:

Void:

**NORTH I-25 EXPRESS LANES
SWMP PLAN-PERMANENT
SWMP PLAN**

Designer: A. Barnard
Detailer: P. Hendrix
Sheet Subset: SWMP

Structure Numbers
Subset Sheets: 04 of 18

Project No./Code

IM 0253-255

21506

Sheet Number 405

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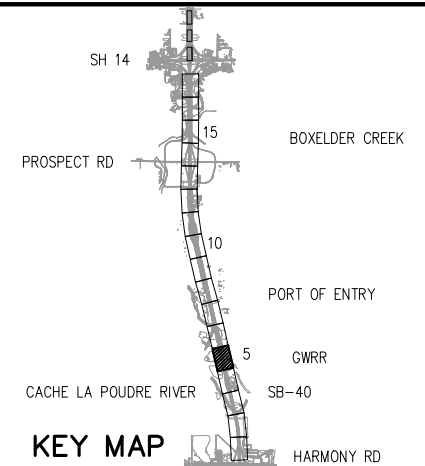


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HCL NB I-25



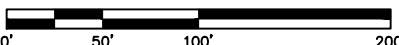
PERMANENT NOTES:

1. ALL FINAL SLOPES EXCEEDING 3:1 GRADE SHALL RECEIVE SOIL RETENTION BLANKET. USE BIODEGRADABLE SRB'S IN THE POND AND NEAR WETLANDS.
2. SEEDING (NATIVE), MULCHING (WEED FREE) AND MULCH TACKIFIERS SHALL BE REQUIRED FOR ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE WHICH ARE NOT TO BE PAVED. ADDITIONAL APPLICATIONS OF THOSE ITEMS MAY BE REQUIRED DUE TO RE-MOBILIZATIONS, SITE CONDITIONS, OR EROSION DUE TO RUNOFF OR CONSTRUCTION.
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- WETLANDS
- PERIMETER CONTROL
- LDA DISTURBED AREA LIMITS
- LIMIT OF CONSTRUCTION
- WETLAND PERIMETER FENCE

- SEEDING (NATIVE)
- PERMANENT WETLAND IMPACTS
- TEMPORARY WETLAND IMPACTS



Print Date: 10/15/2020

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NORTH I-25 EXPRESS LANES SWMP PLAN-PERMANENT SWMP PLAN

Designer: A. Barnard
Detailer: P. Hendrix
Sheet Subset: SWMP

Structure
Numbers

Subset Sheets: 05 of 18

Project No./Code

IM 0253-255

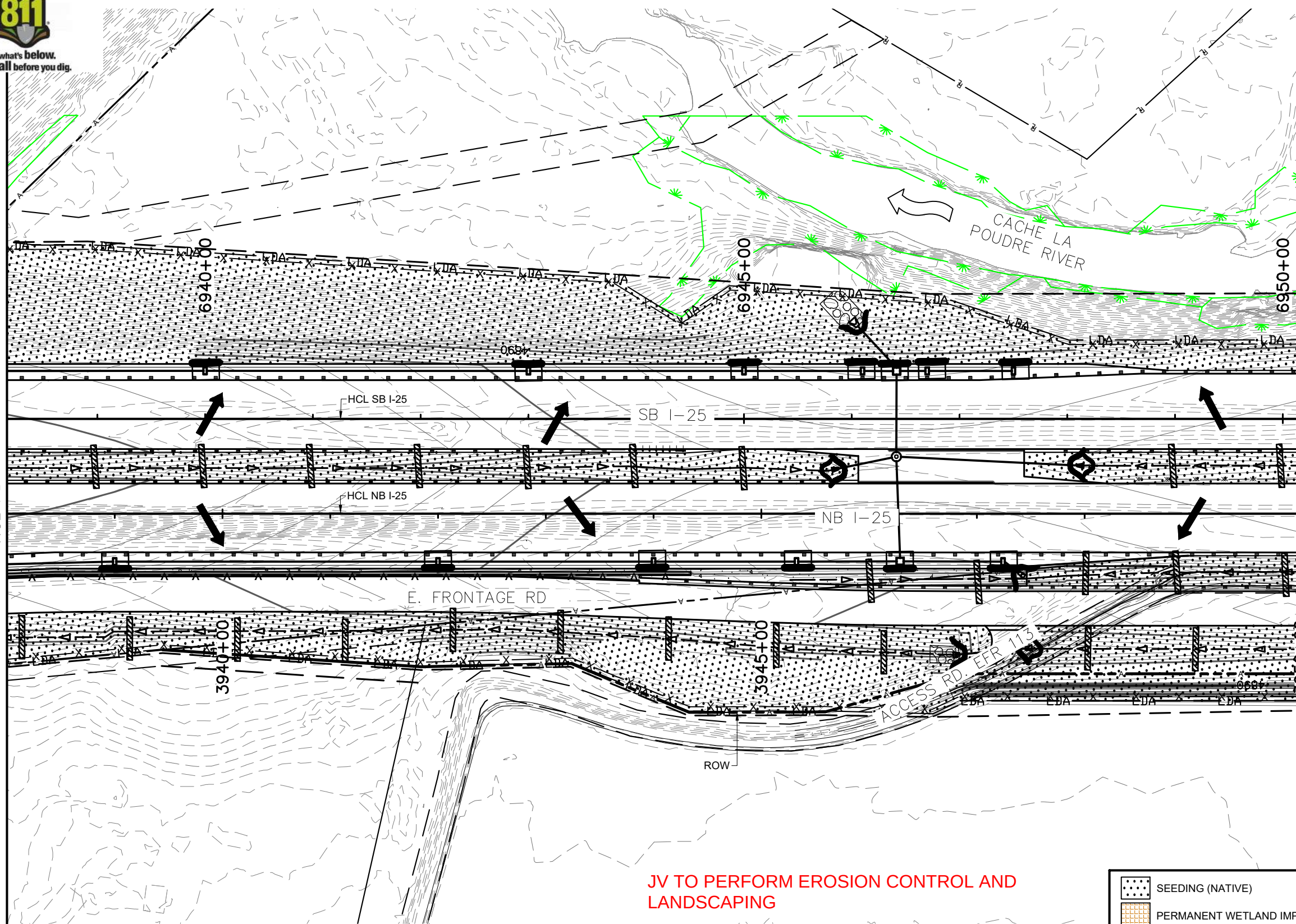
21506

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Number 406

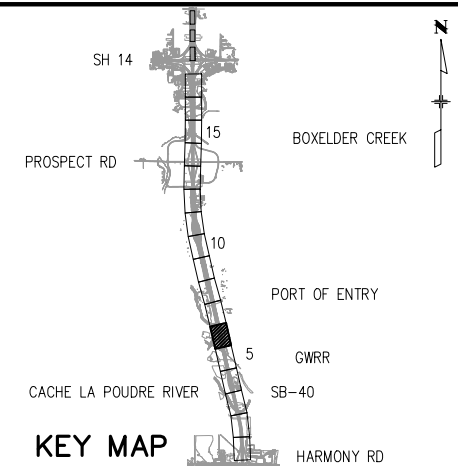
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HCL NB I-25



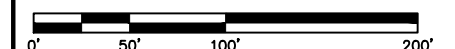
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- PERMANENT NOTES:**
1. ALL FINAL SLOPES EXCEEDING 3:1 GRADE SHALL RECEIVE SOIL RETENTION BLANKET. USE BIODEGRADABLE SRB'S IN THE POND AND NEAR WETLANDS.
 2. SEEDING (NATIVE), MULCHING (WEED FREE) AND MULCH TACKIFIERS SHALL BE REQUIRED FOR ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE WHICH ARE NOT TO BE PAVED. ADDITIONAL APPLICATIONS OF THOSE ITEMS MAY BE REQUIRED DUE TO RE-MOBILIZATIONS, SITE CONDITIONS, OR EROSION DUE TO RUNOFF OR CONSTRUCTION.
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 - PERIMETER CONTROL
 - DISTURBED AREA LIMITS
 - LDA
 - LIMIT OF CONSTRUCTION
 - WETLAND PERIMETER FENCE

- SEEDING (NATIVE)
- PERMANENT WETLAND IMPACTS
- TEMPORARY WETLAND IMPACTS



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No Revisions:		Designer: A. Barnard		IM 0253-255	
Revised:		Detailer: P. Hendrix		21506	
Void:		Sheet Subset: SWMP		Sheet Number 407	
		Structure Numbers		Subset Sheets: 06 of 18	

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SEGMENT 5 PHASING NARRATIVE

GENERAL		NORTHBOUND POUFRE BRIDGE STARTED CONSTRUCTION SEPARATELY, NEEDS TO BE COMPLETED TO BEGIN PHASE 1C BELOW
		EAST AND WEST FRONTAGE ROADS BETWEEN GWRR AND PROSPECT BEGIN CONSTRUCTION IMMEDIATELY. EAST FRONTAGE ROAD NEEDS TO BE COMPLETED TO BEGIN PHASE 1A
		NEW P.O.E. NEEDS TO BE COMPLETED PRIOR TO PHASE 1C BEGINNING
PHASE	0A	TEMPORARY RAMPS FOR CSP ACCESS, CONSTRUCT C.S.P. DRIVEWAY CONCRETE TEMPORARY SOUTHBOUND WIDENING NEAR MULBERRY FRONTAGE ROAD WORK, BOTH SIDES OF I-25 (NOT TIED TO I-25 WORK)
	OB	TEMPORARY CROSSOVER AT HARMONY TEMPORARY ON-RAMP PAVING AT HARMONY ADDITIONAL TEMPORARY PAVING AT C.S.P. DRIVEWAY TEMPORARY NORTHBOUND WIDENING - CSP TO GREAT WESTERN TEMPORARY ALIGNMENTS AND CROSSOVER AT NEW P.O.E. LOCATION TEMPORARY ALIGNMENT AND CROSSOVER UNDER PROSPECT TEMPORARY AND PERMANENT HMA PAVING, SOUTHBOUND FROM MULBERRY
PHASE	1B	NORTHBOUND CONCRETE PAVING (EAST OF HCL) FROM HARMONY TO NEW P.O.E. ALSO HALF OF NEW NORTHBOUND GWRR STRUCTURE SOUTHBOUND CONCRETE PAVING (WEST OF HCL) FROM PROSPECT TO NEW P.O.E. SOUTHBOUND LEAVES A GAP AT EXISTING P.O.E. FINISH SOUTHBOUND OFF RAMP TO PROSPECT
	1C	NORTHBOUND HARMONY ON-RAMP AND CSP TRAFFIC USES NEW CONCRETE FILL GAP IN NORTHBOUND MAINLINE AT CSP OPEN NEW SOUTHBOUND P.O.E. FINISH SOUTHBOUND PAVING (WEST OF HCL), FILL GAP AT OLD P.O.E. AFTER SOUTHBOUND PAVING ABOVE IS DONE, FILL GAP AT OLD PROSPECT ON RAMP FILL GAP IN SOUTHBOUND PAVING PRIOR TO PROSPECT
PHASE	2	OPEN NEW NORTHBOUND P.O.E. SHIFT NORTHBOUND TRAFFIC TO NEW CONCRETE, HARMONY TO NEW P.O.E. FINISH NORTHBOUND CONCRETE PAVING AND GWRR BRIDGE, HARMONY TO NEW P.O.E. BEGIN NORTHBOUND CONCRETE PAVING, BOTH SIDES OF HCLS, P.O.E. TO PROSPECT FINISH NORTHBOUND PROSPECT ON-RAMP CONCRETE, TIE-IN, AND TEMPORARY RAMP
PHASE	3	BEGIN SOUTHBOUND CONCRETE, HARMONY TO NEW P.O.E., FULL WIDTH BEGIN SOUTHBOUND POUFRE STRUCTURE AND GWRR STRUCTURE COMPLETE NORTHBOUND CONCRETE PAVING, NEW P.O.E. TO PROSPECT FINISH NORTHBOUND HMA PAVING NORTH OF PROSPECT
PHASE	4	FINISH REMAINDER OF SOUTHBOUND CONCRETE, EAST OF HCL, NEW P.O.E. TO PROSPECT FINISH GAP IN NORTHBOUND CONCRETE NEAR PROSPECT OFF RAMP COMPLETE REMAINDER OF HMA PAVING AND FINAL OVERLAYS NORTH OF PROSPECT

INCLUDED IN SEPARATELY RELEASED PLAN SET

INCLUDED IN THIS PLAN SET

INDEX OF SHEETS

1 - 2	MOT GENERAL NOTES
3 - 18	PHASE 1C - PLANS
19 - 23	PHASE 2 - TEMPORARY GEOMETRY AND PROFILE
24 - 38	PHASE 2 - PLANS
39 - 40	PHASE 3 - TEMPORARY GEOMETRY AND PROFILE
41 - 57	PHASE 3 - PLANS
58 - 73	PHASE 4 - TEMPORARY GEOMETRY AND PROFILE

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NORTH I-25 EXPRESS LANES
NOTES
MAINTENANCE OF TRAFFIC PLAN

Designer: D. WoolFall	Structure
Detailer: A. Mahmood	Numbers
Sheet Subset: MOT	Subset Sheets: 1 of 73

Project No./Code

IM 0253-255

21506

Sheet Number 420

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10/15/2020 11:06:06 AM
DGN Model: Phase 1C to 4 NOTES
pw:\\scondh-pw.bentley.com\\rscondh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA SEG 5\\Traffic-ITS\\Drawings\\MOT\\21506MOT_CTC_Notes-S5M.dgn

CONSTRUCTION PHASING AND TRAFFIC CONTROL NOTES

- THESE SUGGESTED CONSTRUCTION PHASING AND TRAFFIC CONTROL PLANS ARE ORGANIZED IN THE FOLLOWING MANNER:
 - GEOMETRIC DETAILS NEEDED FOR TEMPORARY STRIPING ALIGNMENTS AND TEMPORARY PAVING IF NECESSARY FOR THAT PHASE/SUBPHASE. THE DETOUR GEOMETRY INFORMATION IS PROVIDED FOR THE PHASE/SUBPHASE WHERE IT IS TO BE CONSTRUCTED.
 - COLORLED PLANS DESCRIBE THE PHASE/SUBPHASE OF WORK, WITH KEY SIGNING SHOWN ON THESE PLAN SHEETS
- THE TEMPORARY STRIPING DESIGN AND DETOUR DESIGNS ARE BASED ON CDOT CRITERIA FOR DETOURS, CDOT 2005 DESIGN MANUAL SECTION 3.5.
- THESE PHASING PLANS MAY NOT SHOW ALL SIGNS AND DEVICES THAT MAY BE NEEDED FOR A SUBPHASE. A COMPLETE METHOD OF HANDLING TRAFFIC (MHT) SHOWING ALL SIGNING AND DEVICES TO BE INSTALLED FOR A PARTICULAR SUBPHASE WILL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTING A NEW PHASE OR SUBPHASE.
- FOR WORK ALONG AREAS SUCH AS RAMPS OR FRONTAGE ROADS, CHANNELIZING DRUMS ALONG THE WORK AREA WITH ASSUMED FLAGGING AND/OR NIGHT WORK IS THE DEFAULT WORK APPROACH. THE CONTRACTOR SHALL HAVE ADEQUATE PROTECTION FROM HAZARDS DURING NON-WORK HOURS IN THESE AREAS, INCLUDING A SLOPING EDGE IN THE CLEAR ZONE (AS DEFINED IN NOTE 5 BELOW). TEMPORARY CONCRETE BARRIER WITH APPROPRIATE END TREATMENTS MAY BE INSTALLED IN THESE WORK AREAS IF NECESSARY.
- THE LOCATION OF TEMPORARY CONCRETE BARRIERS IS BASED ON THE ASSUMED PHASING AND HAZARDS AS SHOWN IN THE PLANS. DUE TO THE FLEXIBLE NATURE OF CONSTRUCTION, TEMPORARY BARRIER PLACEMENT IS SUBJECT TO REVISION - EITHER ELIMINATING OR INSTALLING ADDITIONAL TEMPORARY BARRIER, BASED ON WHETHER HAZARDS ARE IN THE CLEAR ZONE AS DEFINED BELOW.
 - ON I-25, 65MPH DESIGN, 30 FT. CLEAR OF TRAVEL LANES
 - ON LOCAL ROADS AND RAMPS - NEAR RAMP TERMINAL INTERSECTIONS, 30MPH DESIGN, 14 FT. CLEAR OF TRAVEL LANES
- NARROW TEMPORARY IMPACT ATTENUATORS ARE SHOWN AS THE DEFAULT IMPACT ATTENUATOR UNLESS OTHERWISE NOTED. TEMPORARY SAND FILLED BARRELS MAY BE SUBSTITUTED IF THERE IS SPACE (2' CLEAR OF TRAVEL LANE) AND THE ARRAY MEETS TEST LEVEL 3. THE CONTRACTOR HAS THE OPTION TO FLARE BARRIER OUT OF THE CLEAR ZONE IF THE SPACE IS AVAILABLE. THE CLEAR ZONE FOR THIS PROJECT IS AS DESCRIBED IN NOTE 5.
- THE AREAS OF WORK FOR EACH PHASE/SUBPHASE SHOWN IN THE PLANS ARE SUGGESTED MINIMUMS IN ORDER TO TRANSITION TRAFFIC TO THE SUBSEQUENT PHASE. THE CONTRACTOR MAY MODIFY THE EXTENT OF WORK OR ACCELERATE PHASES OR SUBPHASES AS NECESSARY OUTSIDE OF THE AREAS DESIGNATED FOR MAINTAINING TRAFFIC. ADDITIONAL DETOUR DESIGN, DETOUR PAVEMENT, AND WORK AREA PROTECTION MAY BE NECESSARY FOR THESE SITUATIONS.
- TEMPORARY SIGNING IN PLACE FOR MORE THAN THREE (3) DAYS SHALL BE MOUNTED ON A VERTICAL POST GENERALLY 7 FT. ABOVE GROUND LEVEL. TEMPORARY POSTS CAN BE TIMBER.

- IF EXISTING DELINEATORS ALONG THE ROADWAYS ARE REMOVED FOR CONSTRUCTION, THE DELINEATORS MUST BE REPLACED ALONG THE EXISTING OR THE DETOUR ALIGNMENTS IN AN EQUAL OR BETTER MANNER. TEMPORARY DELINEATION MAY BE DONE USING CHANNELIZING DRUMS. TOP AND SIDE REFLECTOR STRIPS ON TEMPORARY CONCRETE BARRIERS ARE REQUIRED.
- EXISTING LIGHTING LEVELS MUST BE MAINTAINED, LIGHTING IN THIS AREA INCLUDES RAMP GORE LIGHTING, LIGHTS ON I-25 UNDER THE BRIDGES, AND STREET LIGHTING AT THE SIGNALIZED INTERSECTIONS. MAINTAIN EXISTING LIGHTS, INSTALL TEMPORARY LIGHTS, OR UTILIZE PERMANENT LIGHTING TO MAINTAIN EQUAL OR BETTER LIGHTING LEVELS IN THESE AREAS.
- THE EAST AND WEST FRONTAGE ROADS ARE BEING CONSTRUCTED AS PART OF A SEPARATE PACKAGE AND WILL HAVE THEIR OWN PHASING AND METHODS OF HANDLING TRAFFIC. THESE SEGEMENT 5 PLANS ASSUME SEGMENTS OF FRONTAGE ROAD ARE COMPLETE IN ORDER TO ALLOW I-25 CONSTRUCTION TO PROCEED.
- IF NIGHT WORK IS PLANNED, A NIGHT WORK LIGHTING PLAN SHALL BE SUBMITTED PER 632.06.
- ONLY SUBSTANTIAL CHANGES TO GUIDE SIGNS, REGULATORY SIGNS, AND WARNING SIGNS ARE SHOWN IN THESE PLANS. THE CONTRACTOR SHALL PROVIDE M.H.T'S TO SHOW THE FULL RANGE OF SIGNING CHANGES FOR EACH MAJOR OR MINOR PHASE.
- RELOCATION OF BLUE TRAVELER DESTINATION SIGNS (T.O.D.S.) IS NOT SHOWN IN THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE T.O.D.S. GROUP FOR TEMPORARY AND PERMANENT RELOCATIONS FOR THESE SIGNS.
- THE DETOUR PAVEMENT SECTION IS SHOWN BELOW FOR ALL I-25 AND TEMPORARY RAMP PAVEMENT IN THIS PLAN SET:

I-25 TEMP. PAVEMENT	Material	Type	Thickness (in)
	HMA	S (100) PG 64-22	2
	HMA	SG ¹ (100) PG 64-22	6.5

TEMP. RAMP PAVEMENT	Material	Type	Thickness (in)
	HMA	S (100) PG 64-22	2
	HMA	SG ¹ (100) PG 64-22	4.5

- THE TABLE BELOW (FROM UTAH DOT) WAS USED TO DESIGN TEMPORARY PAVEMENT GRADE BREAKS ON TEMPORARY ALIGNMENTS, PRIMARILY FOR TEMPORARY RAMP CONNECTIONS TO/FROM MAINLINE I-25.

UDOT MOI CRITERIA FOR TEMP PAVEMENT GRADE BREAKS	
Design Speed	Maximum Algebraic Difference without Vertical Curve
Less than 30 mph	2.00%
30 mph to 50 mph	1.00%
50 mph to 65 mph	0.50%
Greater than 65 mph	0.20%

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No Revisions:		Designer: D. WoolFall Structure		IM 0253-255
Revised:		Detailer: D. WoolFall Numbers		21506
Void:		Sheet Subset: MOT	Subset Sheets: 2 of 73	Sheet Number 421

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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 3 of 73

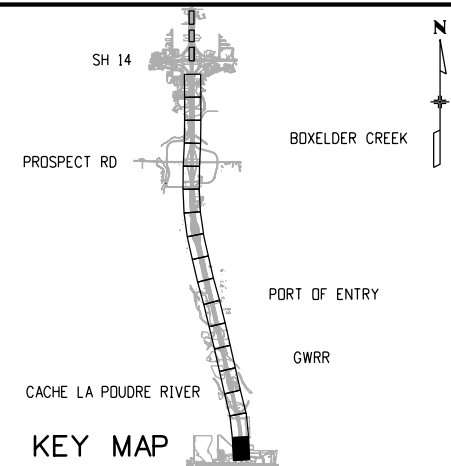
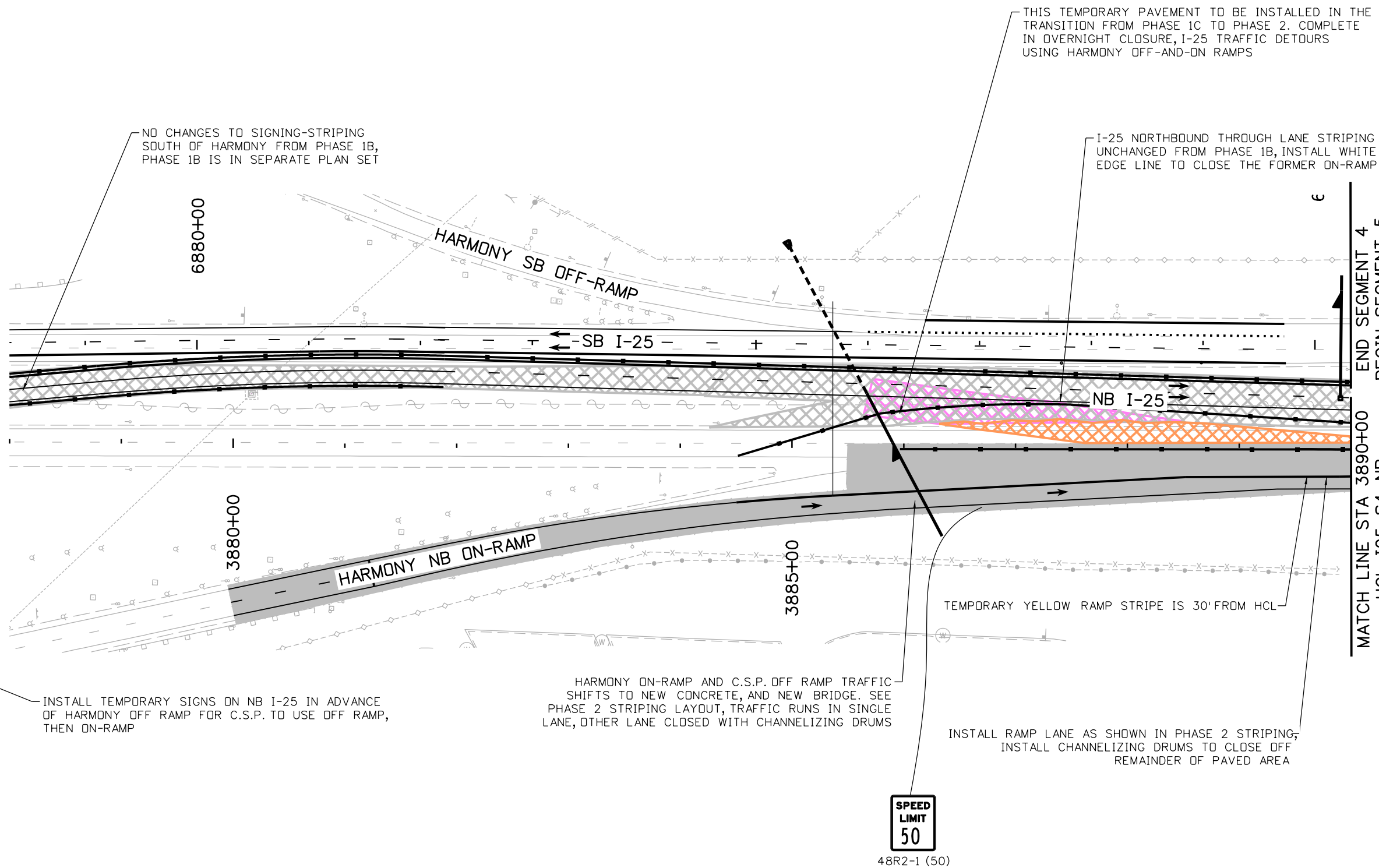
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Number

422



NOTES:

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LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
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Subset Sheets: 4 of 73

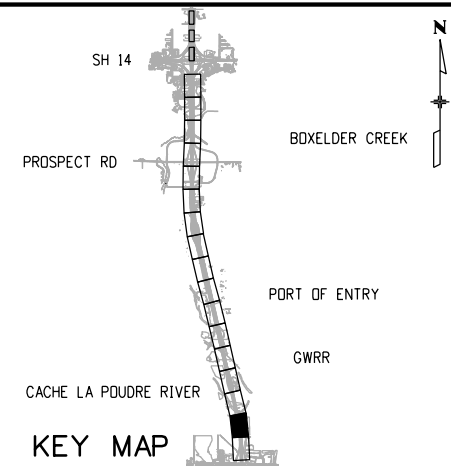
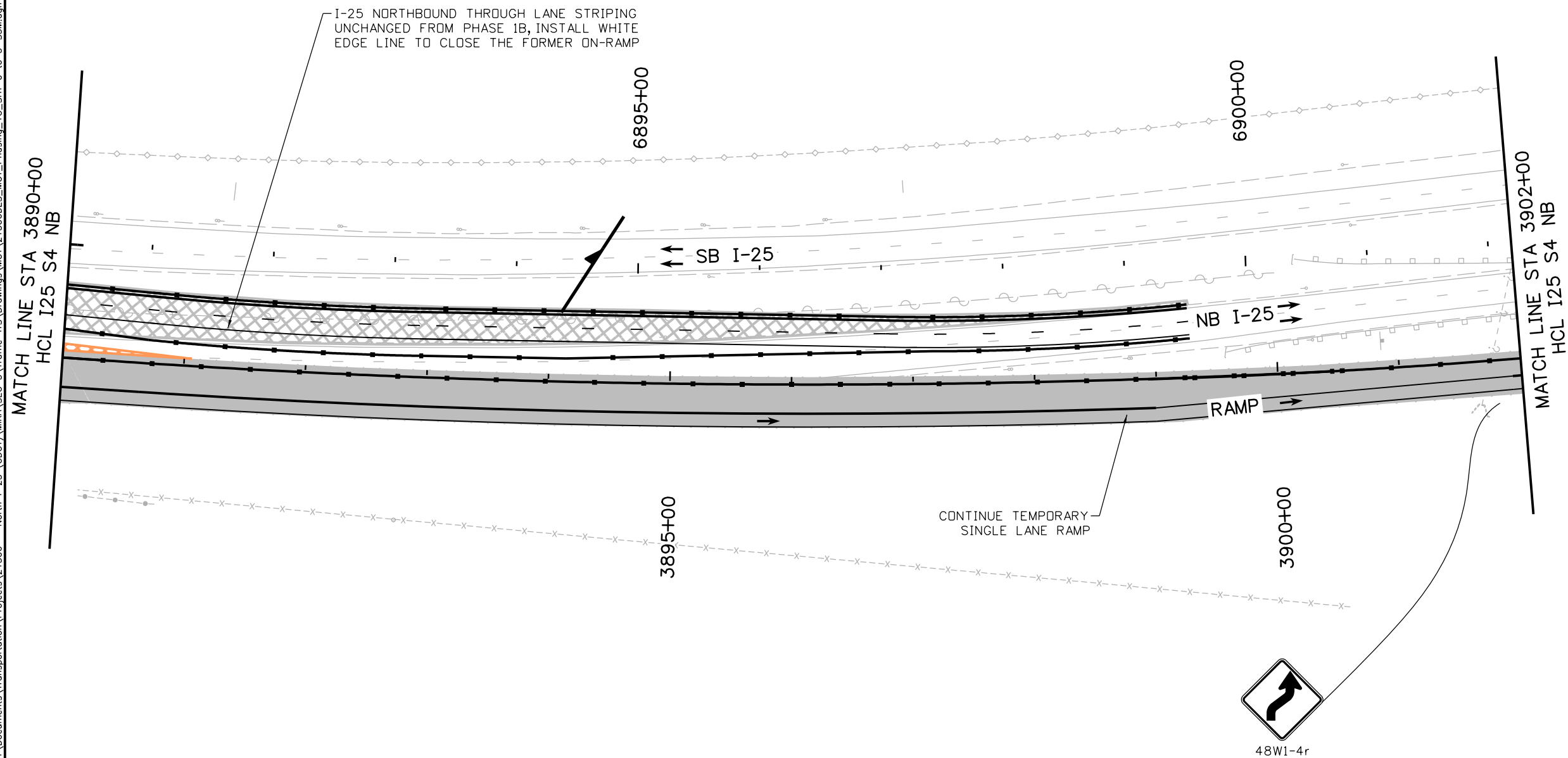
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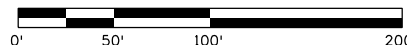


NOTES:

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FOR INFORMATION ONLY

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- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



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NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 5 of 73

Project No./Code

IM 0253-255

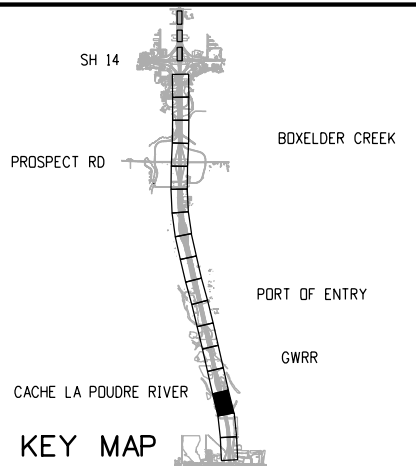
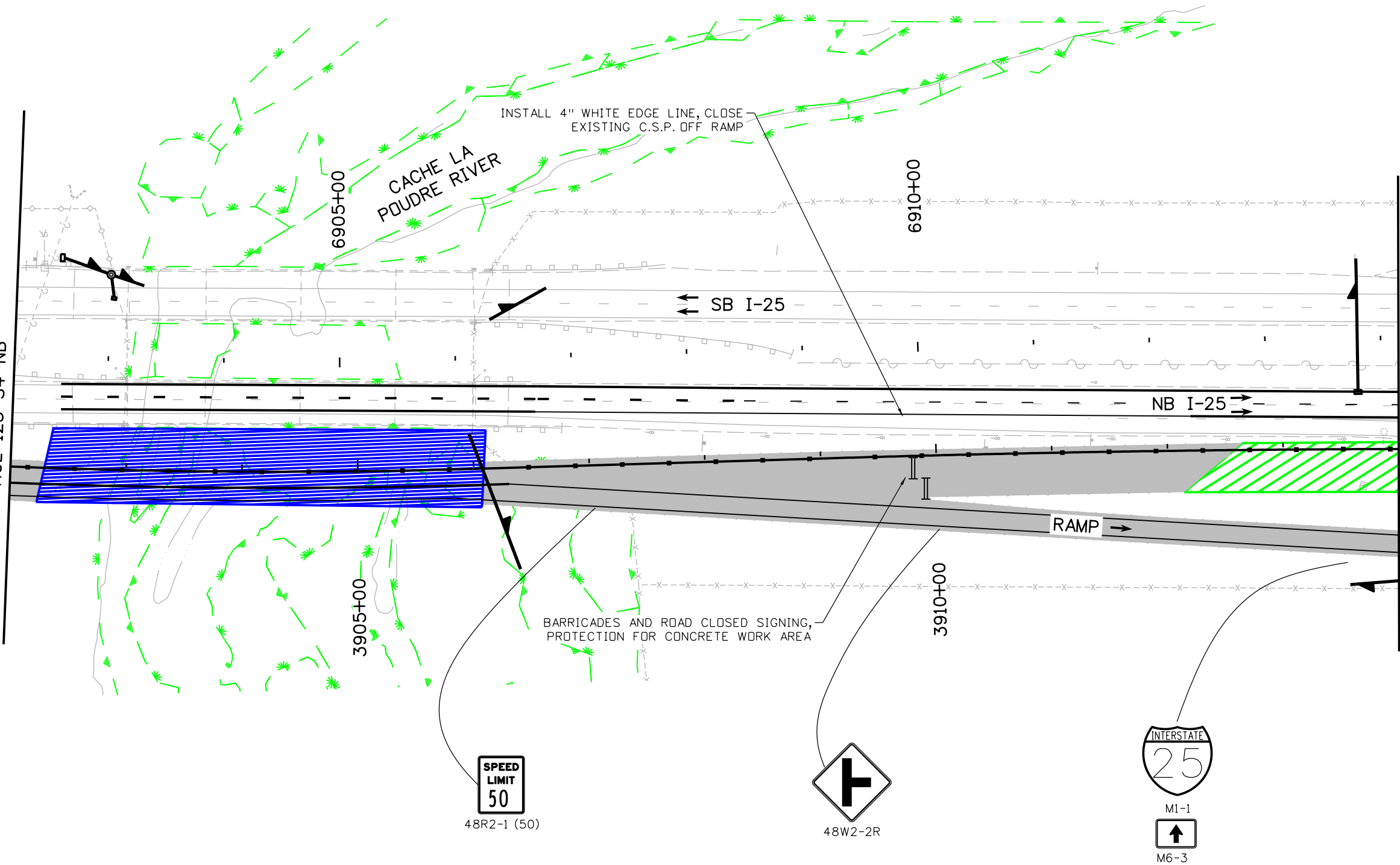
21506

Sheet
Number

424

MATCH LINE STA 3902+00
HCL I25 S4 NB

MATCH LINE STA 3914+00
HCL I25 S4 NB



NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS
FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



Segment 5M - RFC - CDOT - 10.19.2020

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Region 4

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Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 6 of 73

Project No./Code

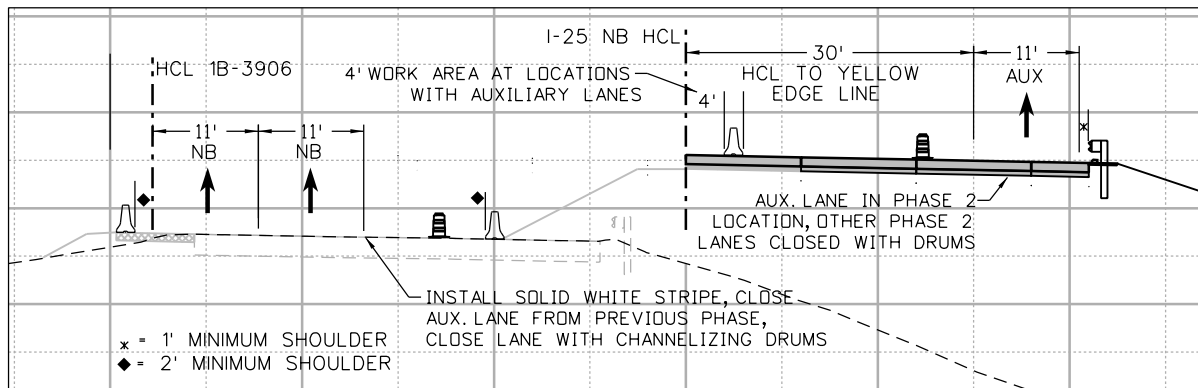
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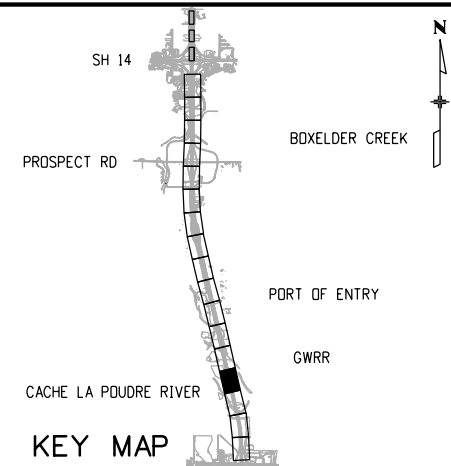
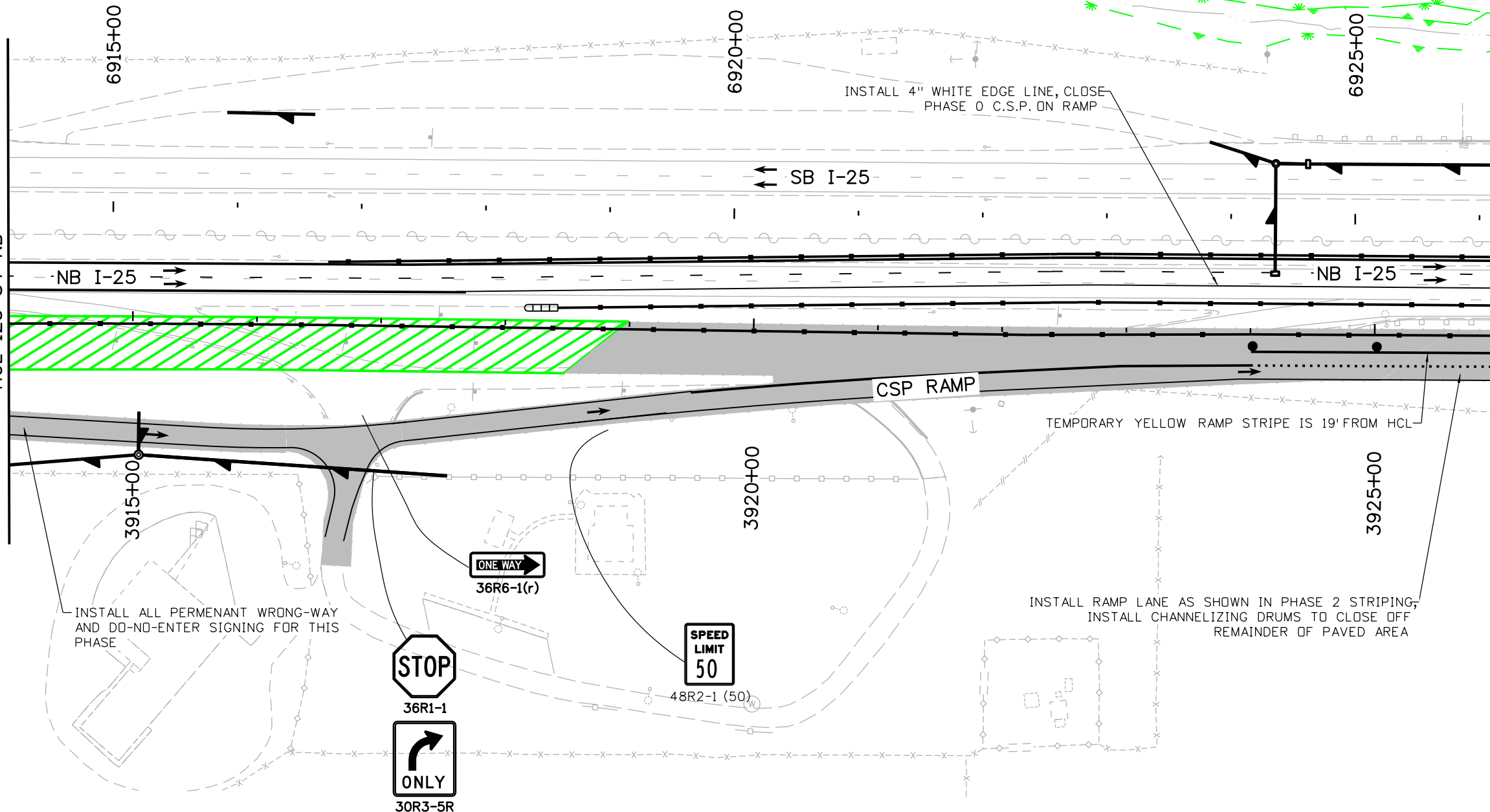
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TYPICAL TEMPORARY CROSS SECTION, STA. 3926+00 SHOWN



MATCH LINE STA 3914+00
HCL I25 S4 NB

MATCH LINE STA 3926+00
HCL I25 S4 NB



NOTES:

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- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
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Subset Sheets: 7 of 73

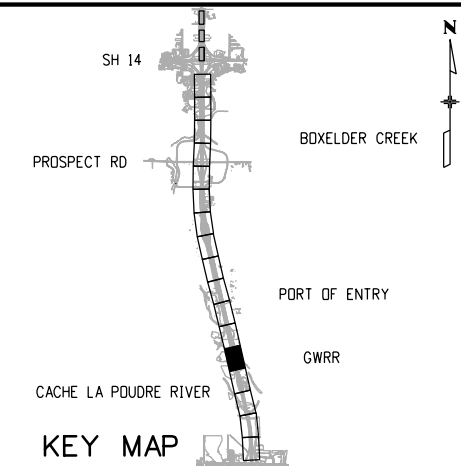
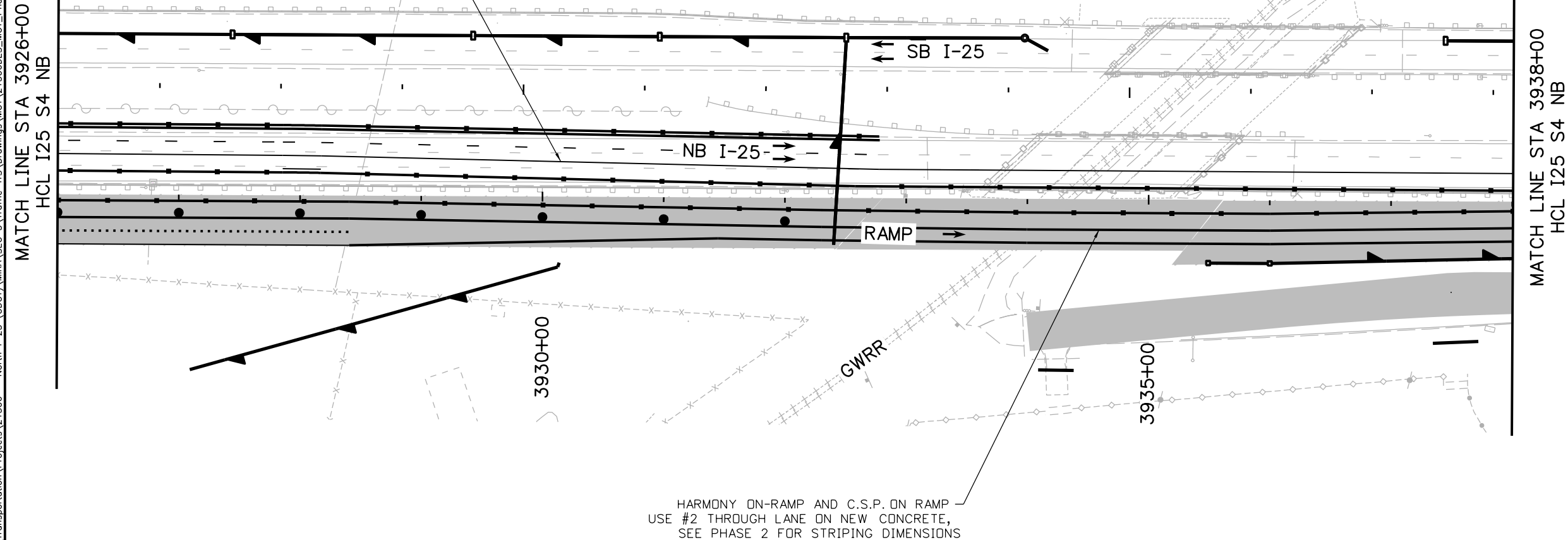
Project No./Code

IM 0253-255

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Sheet
Number

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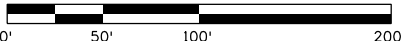


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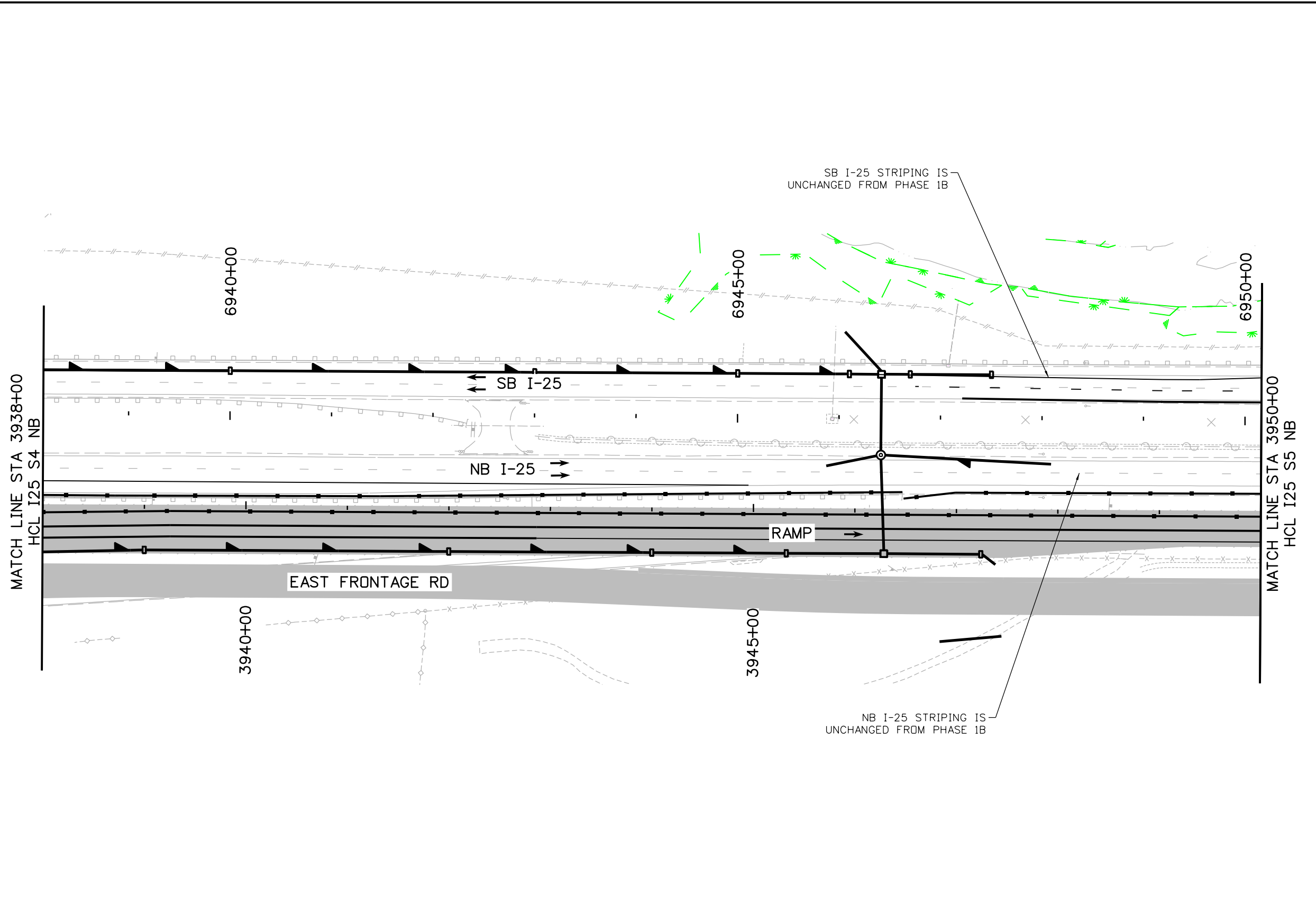
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- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



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KEY MAP

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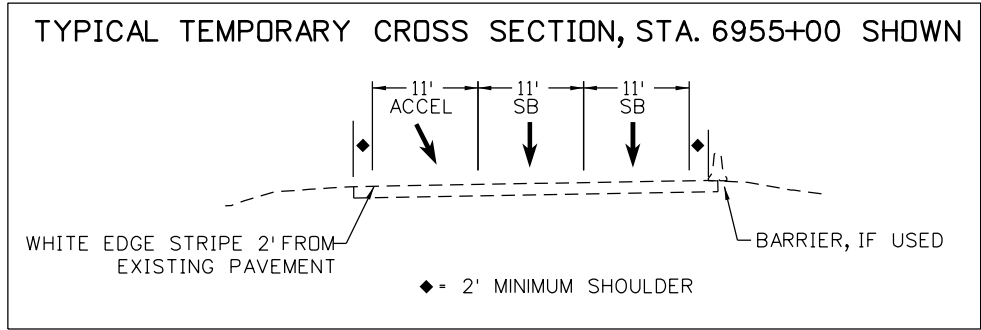
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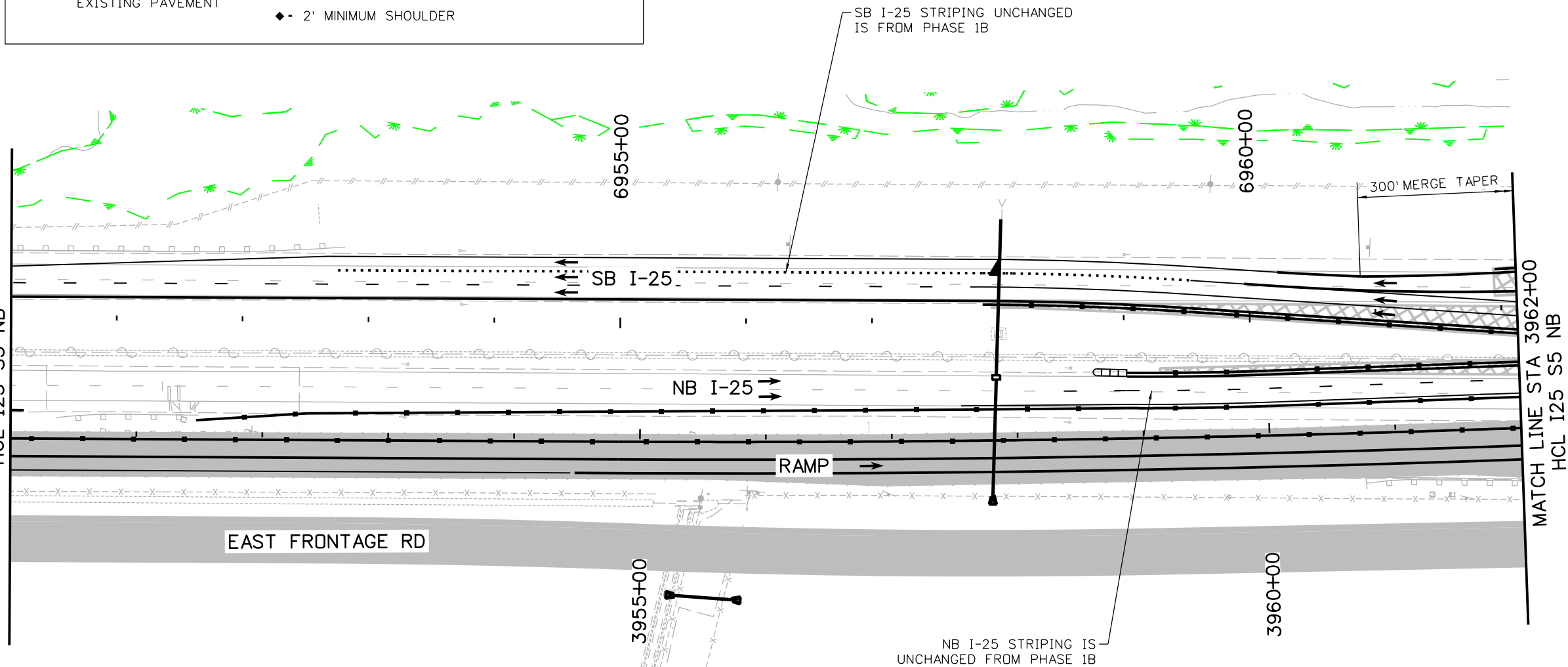
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File Name: 21506DES_MOT_Phasing_1C_SHT 6 to 11-S5M.dgn			Date:	Comments	Init.		No Revisions:					IM 0253-255	
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RS&H KRAEMER a joint venture							Void:		Detailer: A. Mahmood		Numbers	Sheet Number	
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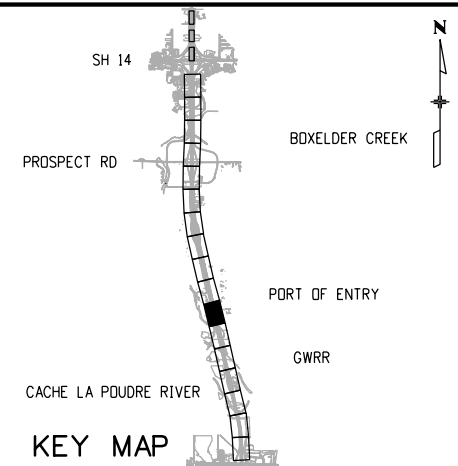
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MATCH LINE STA 3950+00
HCL I25 S5 NB



MATCH LINE STA 3962+00
HCL I25 S5 NB

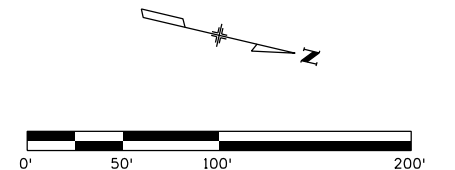


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Void:

NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure Numbers
Subset Sheets: 9 of 73

Project No./Code

IM 0253-255

21506

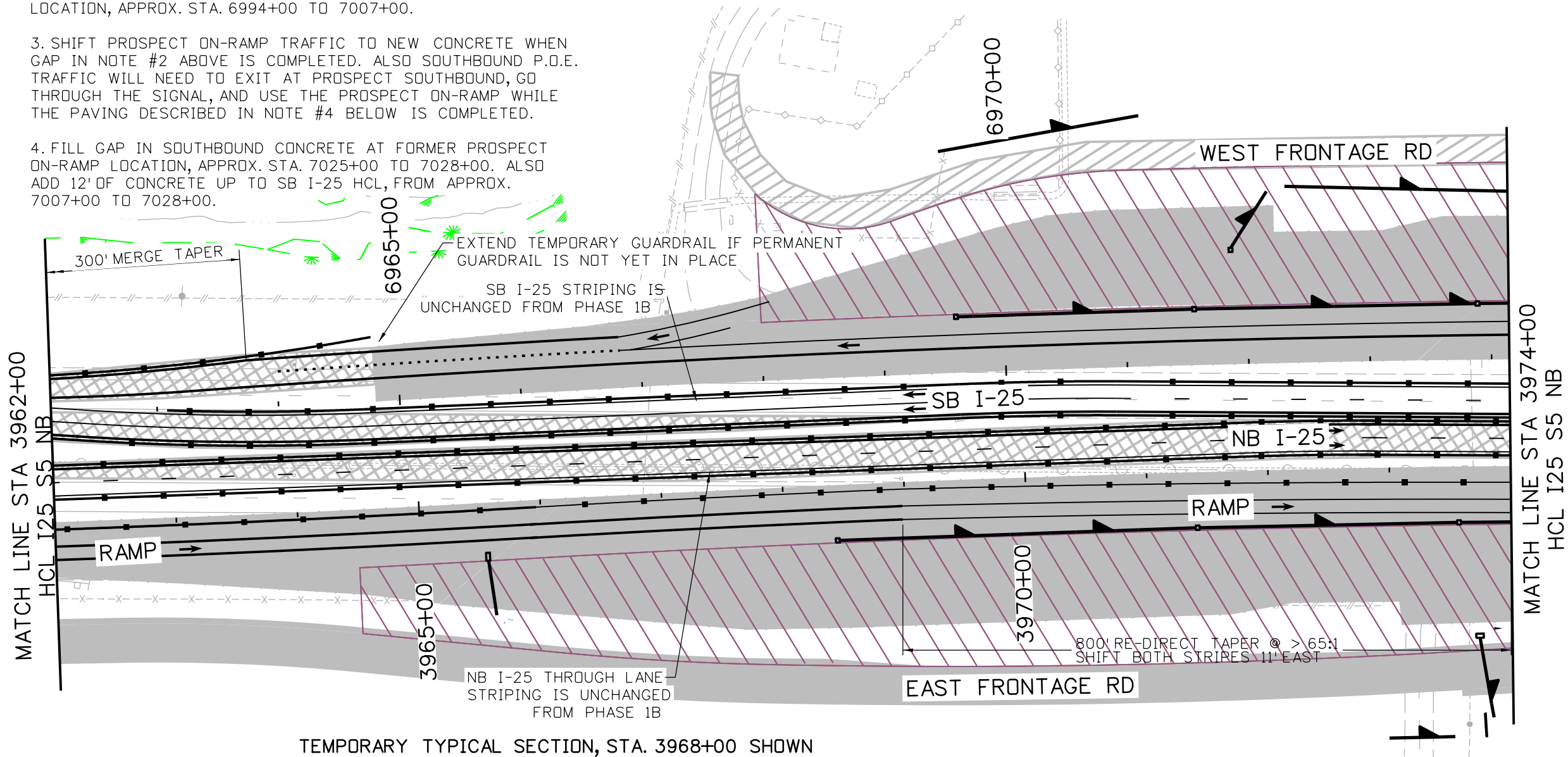
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Segment 5M - RFC - CDOT - 10.19.2020

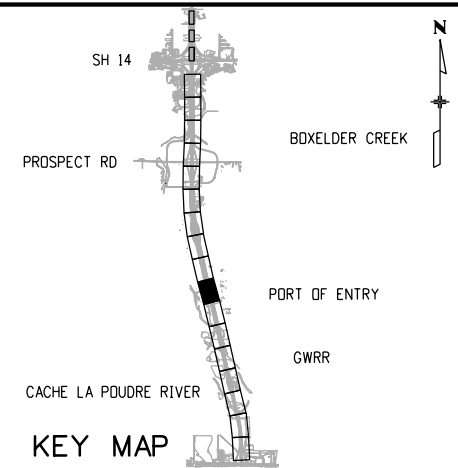
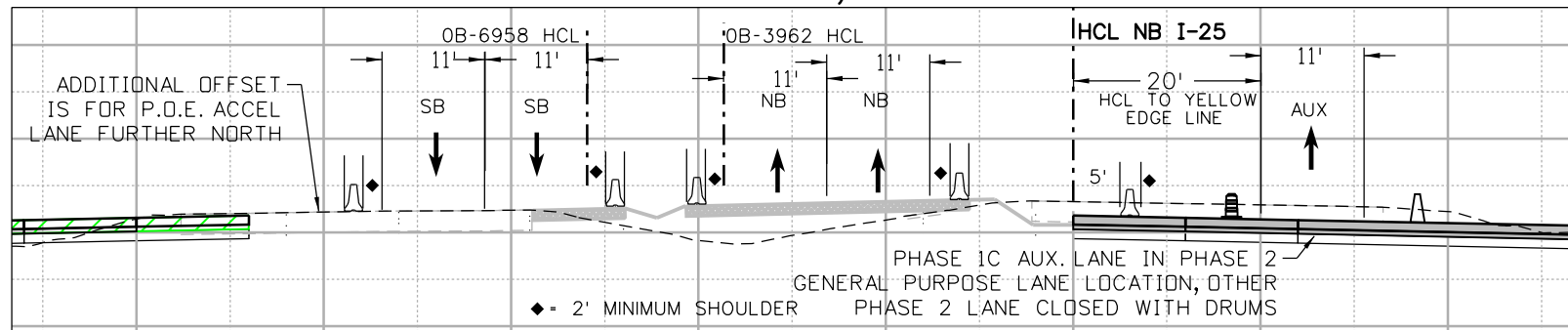
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ORDER OF WORK FOR P.O.E. AND PROSPECT SOUTHBOUND

1. OPEN NEW SOUTHBOUND PORT-OF-ENTRY (P.O.E.) WITH INGRESS USING TEMPORARY RAMP AT APPROX. STA. 6988+00.
2. COMPLETE GAP IN SOUTHBOUND MAINLINE PAVING AT OLD P.O.E. LOCATION, APPROX. STA. 6994+00 TO 7007+00.
3. SHIFT PROSPECT ON-RAMP TRAFFIC TO NEW CONCRETE WHEN GAP IN NOTE #2 ABOVE IS COMPLETED. ALSO SOUTHBOUND P.O.E. TRAFFIC WILL NEED TO EXIT AT PROSPECT SOUTHBOUND, GO THROUGH THE SIGNAL, AND USE THE PROSPECT ON-RAMP WHILE THE PAVING DESCRIBED IN NOTE #4 BELOW IS COMPLETED.
4. FILL GAP IN SOUTHBOUND CONCRETE AT FORMER PROSPECT ON-RAMP LOCATION, APPROX. STA. 7025+00 TO 7028+00. ALSO ADD 12" OF CONCRETE UP TO SB I-25 HCL, FROM APPROX. 7007+00 TO 7028+00.



TEMPORARY TYPICAL SECTION, STA. 3968+00 SHOWN

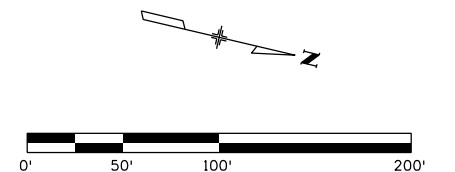


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- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS
- NOT FOR CONSTRUCTION



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NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 10 of 73

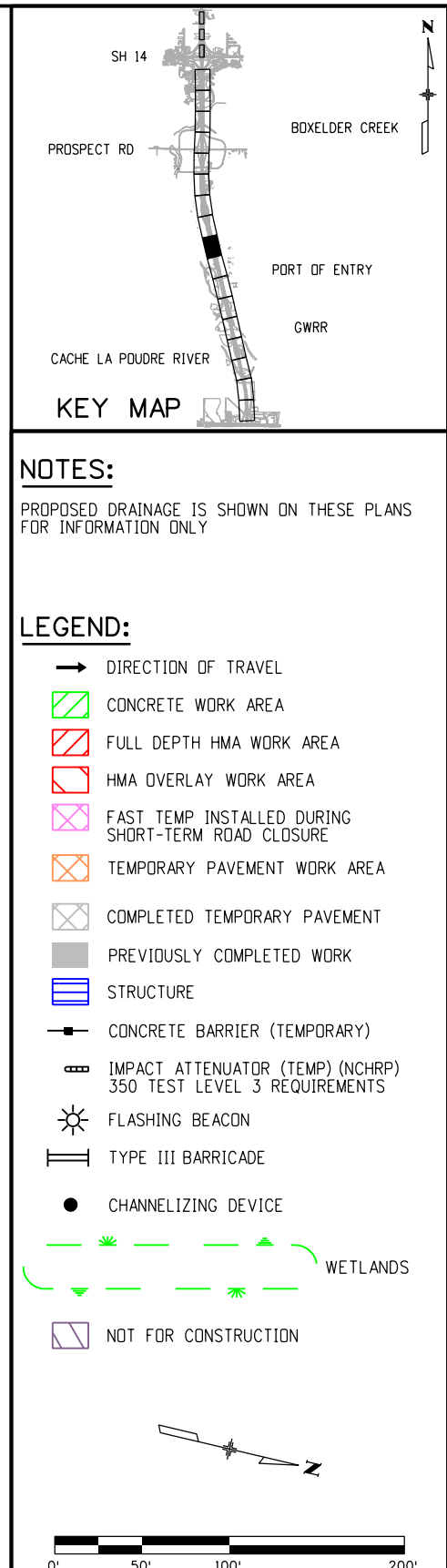
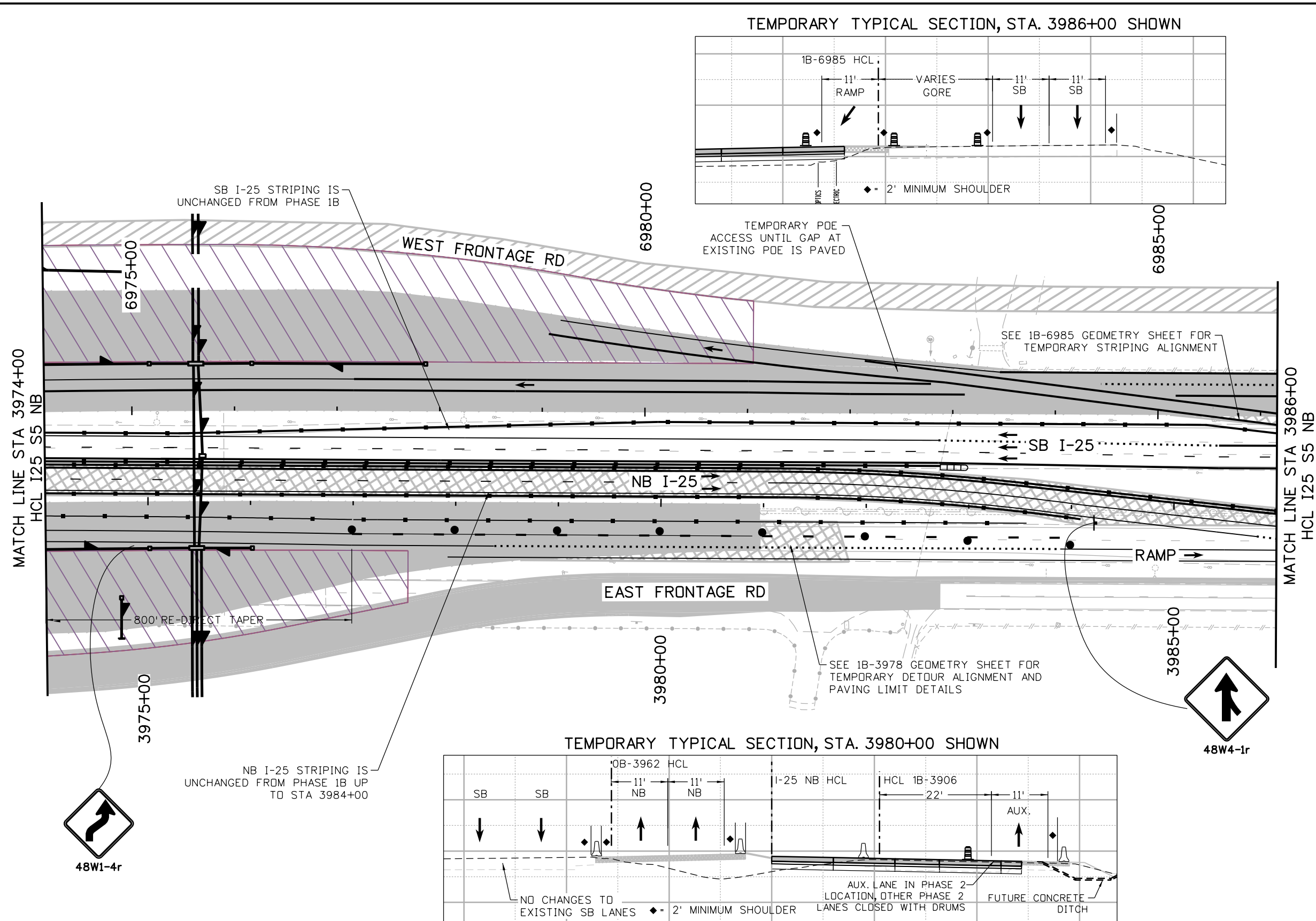
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21506

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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 11 of 73

Project No./Code

IM 0253-255

21506

Sheet
Number

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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 12 of 73

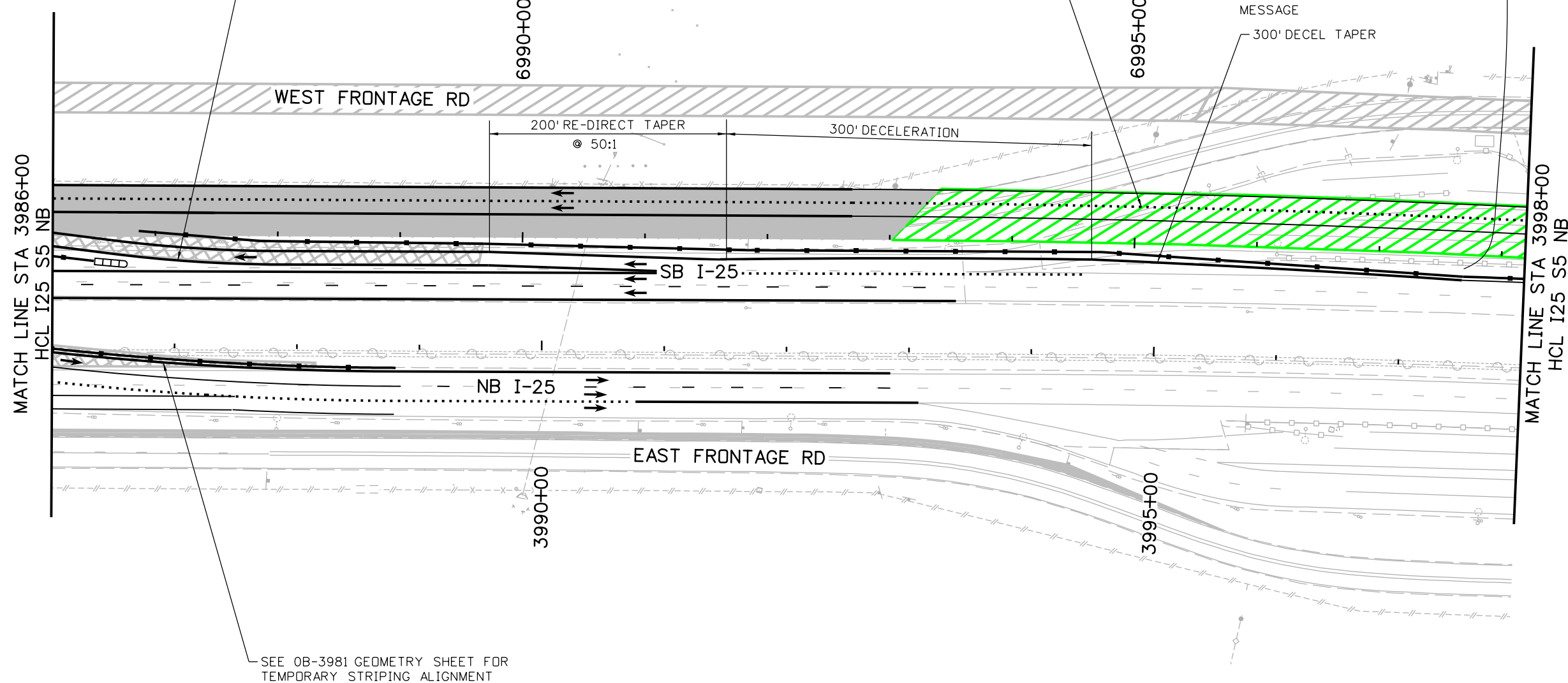
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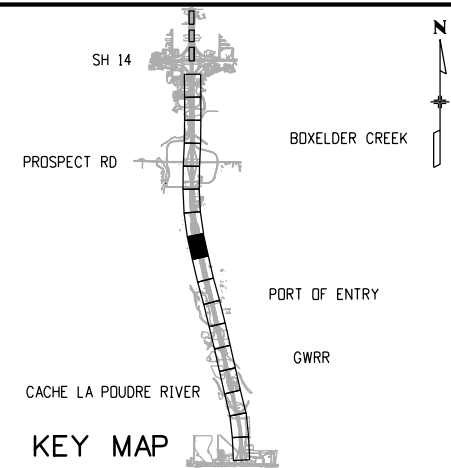
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431



MOVE EXISTING SIGN TO THIS LOCATION. AFTER PROSPECT ON-RAMP TRAFFIC SHIFTS TO NEW CONCRETE, MOVE THIS SIGN TO SB PROSPECT OFF RAMP, OR PROVIDE VARIABLE MESSAGE SIGN WITH THIS MESSAGE

300' DECEL TAPER



NOTES:

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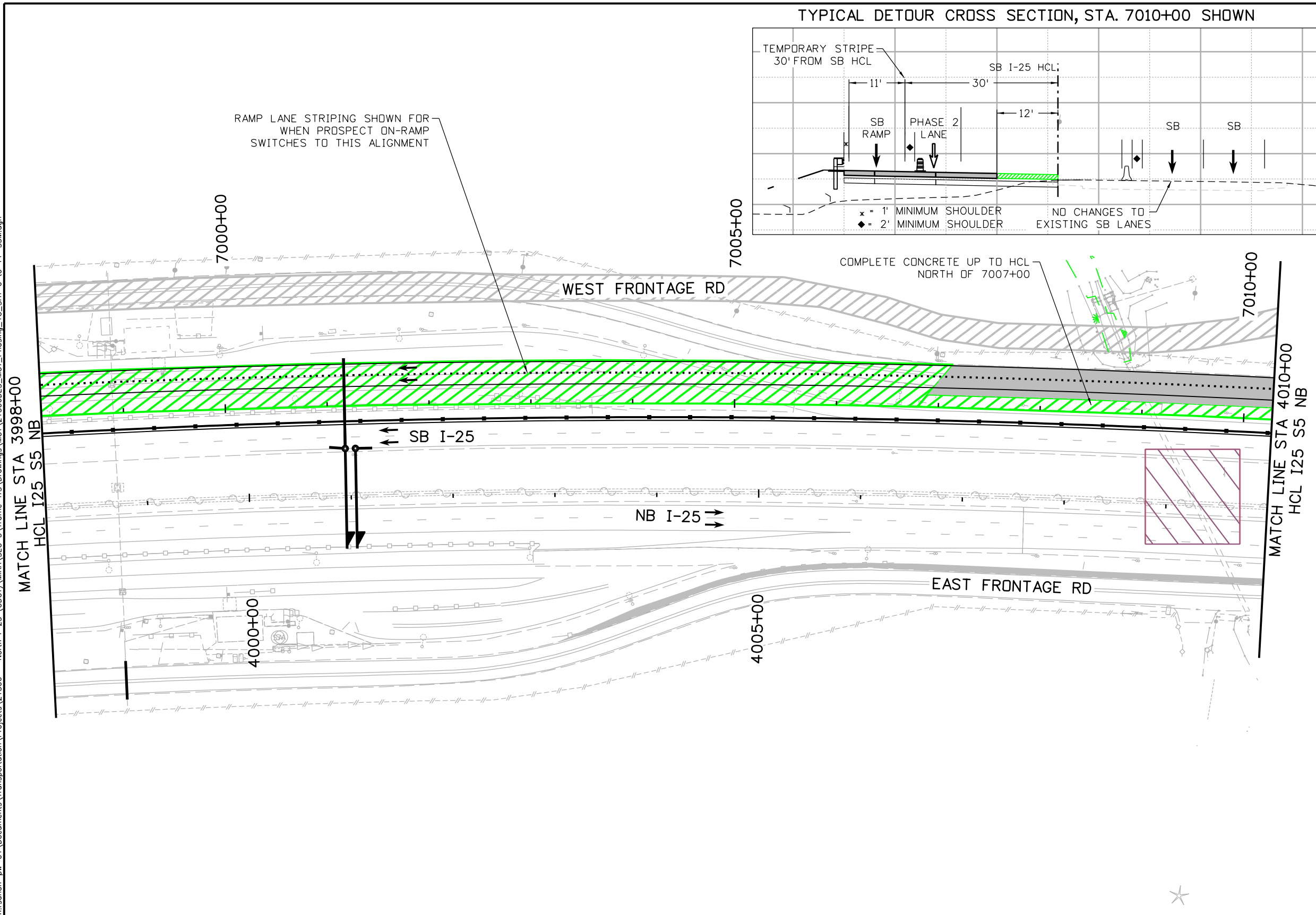
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No Revisions:

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Void:

NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
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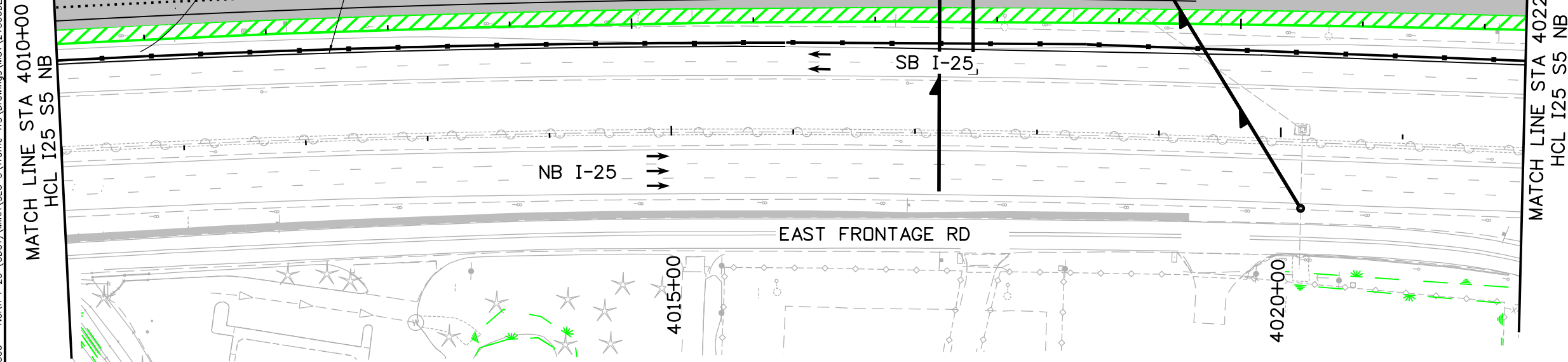
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Project No./Code

IM 0253-255

21506

Sheet
Number 433



KEY MAP

SH 14
PROSPECT RD
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PORT OF ENTRY
GWR
CACHE LA POUDRE RIVER

NOTES:
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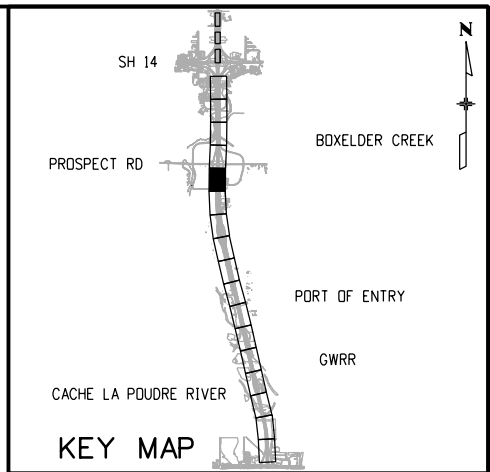
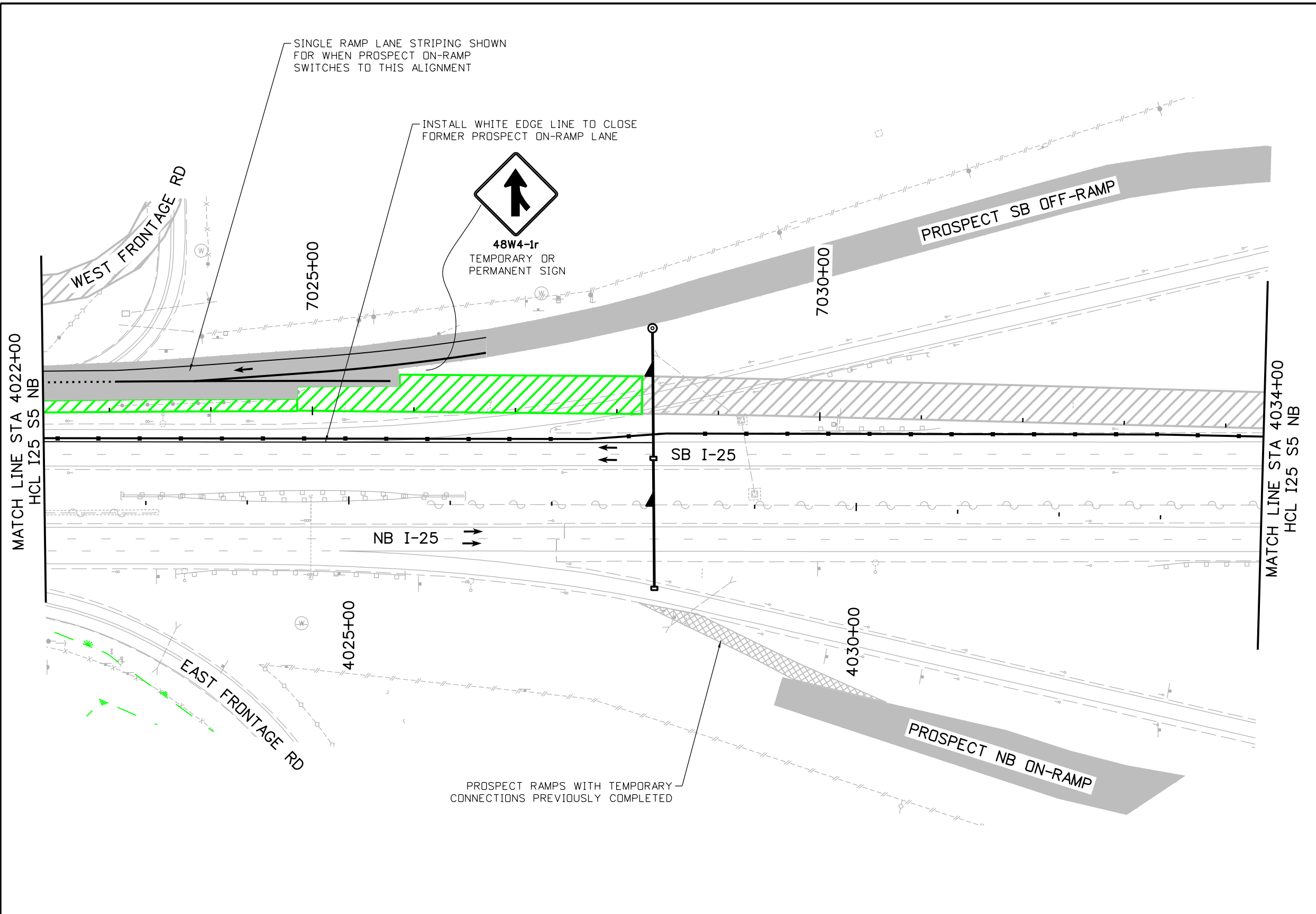
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0' 50' 100' 200'

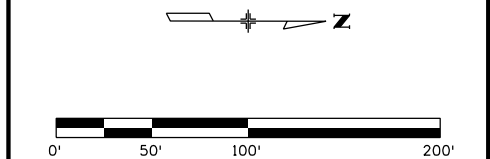
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 - CHANNELIZING DEVICE
 - WETLANDS



Print Date: 10/15/2020			Sheet Revisions			CDOT CO 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
File Name: 21506DES_MOT_Phasing_1C_SHT 12 to 17-S5M.dgn			Date:	Comments	Init.		No Revisions:		IM 0253-255				
Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:		Designer: D. Woolfall	Structure	21506		
RS&H KRAEMER a joint venture							Void:		Detailer: A. Mahmood	Numbers	Sheet Number 434		
							Sheet Subset: MOT		Subset Sheets: 15 of 73				

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Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_1C_SHT 12 to 17-S5M.dgn
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Sheet Revisions		
Date:	Comments	Init.



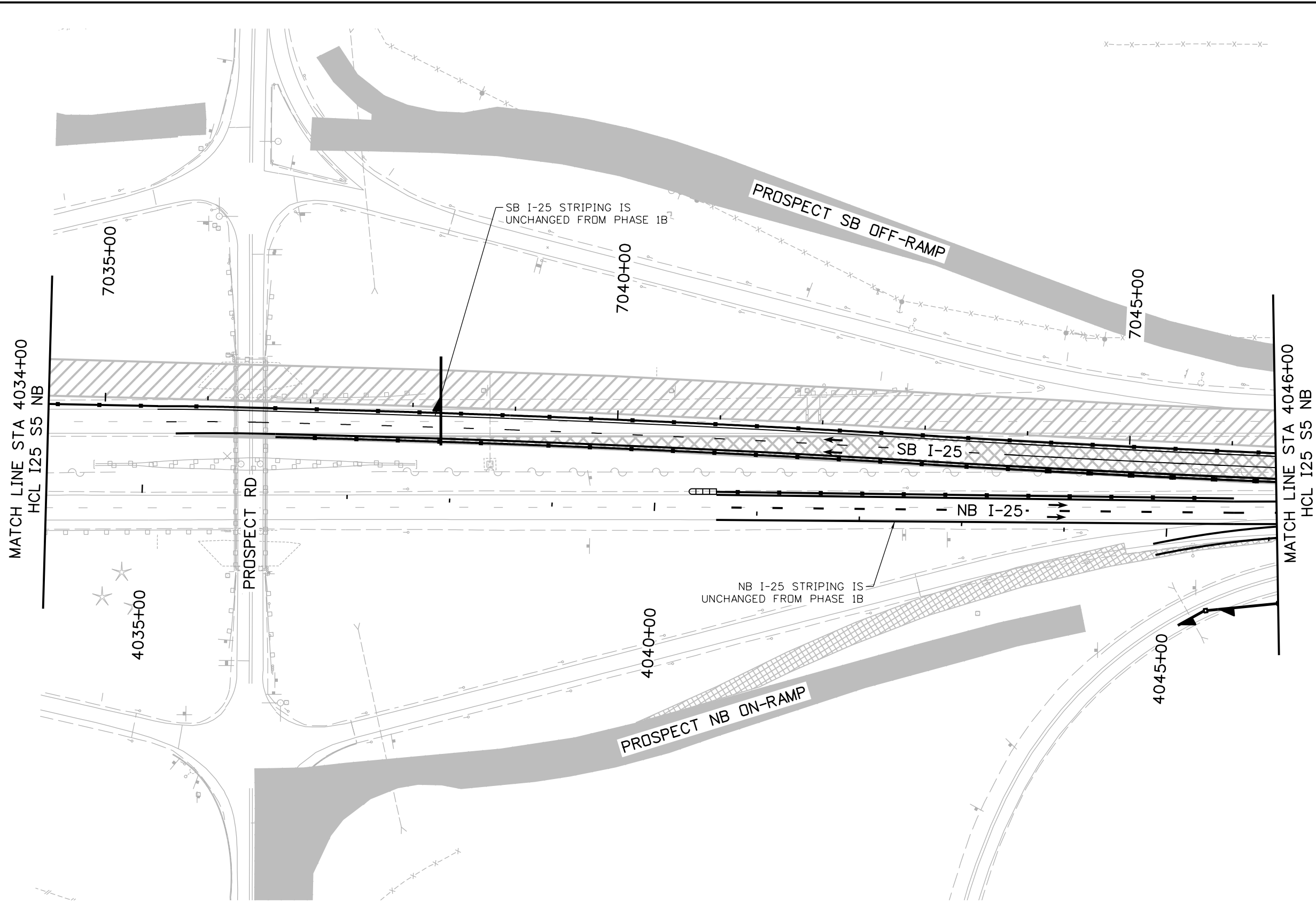
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10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530
Region 4 CJS

As Constructed
No Revisions:
Revised:
Void:

**NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN**

Designer: D. Woolfall	Structure Numbers
Detailer: A. Mahmood	
Sheet Subset: MOT	Subset Sheets: 16 of 73

Project No./Code
IM 0253-255
21506
Sheet Number 435



SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

North Arrow

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File Name: 21506DES_MOT_Phasing_1C_SHT 12 to 17-S5M.dgn
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NORTH I-25 EXPRESS LANES
PHASE 1C PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 17 of 73

Project No./Code

IM 0253-255

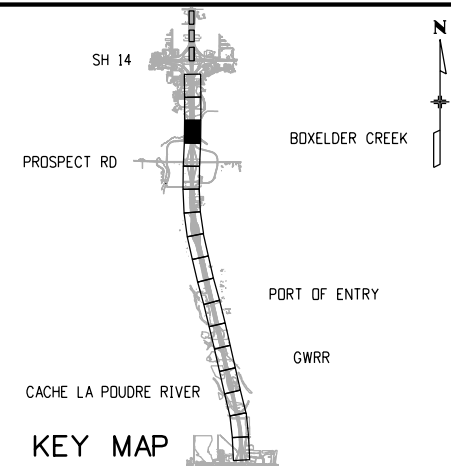
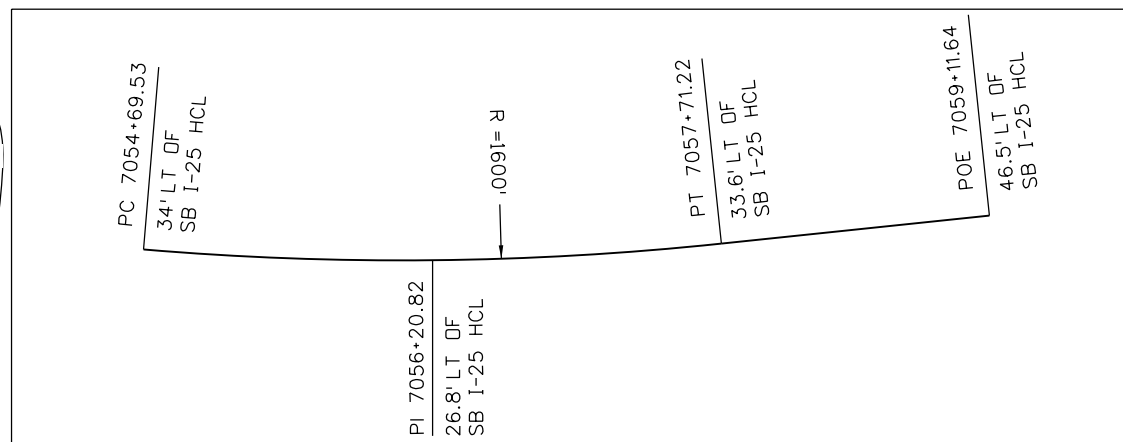
21506

Sheet Number 436

MATCH LINE STA 4046+00
HCL I25 S5 NB

MATCH LINE STA 4058+00
HCL I25 S5 NB

TEMPORARY PROSPECT OFF-RAMP STRIPING DETAIL (WHITE EDGE LINE)

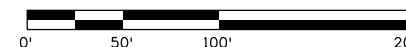


NOTES:

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- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
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- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



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No Revisions:

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NORTH I-25 EXPRESS LANES PHASE 1C PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 18 of 73

Project No./Code

IM 0253-255

21506

Sheet
Number

437

MATCH LINE STA 4058+00
HCL I25 S5 NB

MATCH LINE STA 4070+00
HCL I25 S5 NB

RESET EXISTING SIGN

CONTINUE 4" WHITE DOTTED LINE ALONG
CURVE, THROUGH THE EXIT LANE TAPER

SB I-25 STRIPING IS
UNCHANGED FROM PHASE 1B
BEGINNING AT STA 7062+36

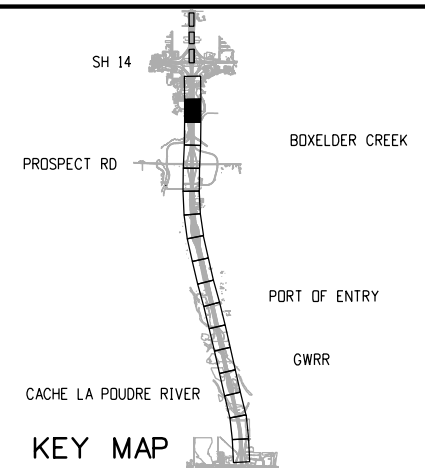
NB I-25 STRIPING IS
UNCHANGED FROM PHASE 1B

240' LANE ADDITION TAPER

WEST FRONTAGE RD

-SB I-25-

EAST FRONTAGE RD



NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS
FOR INFORMATION ONLY

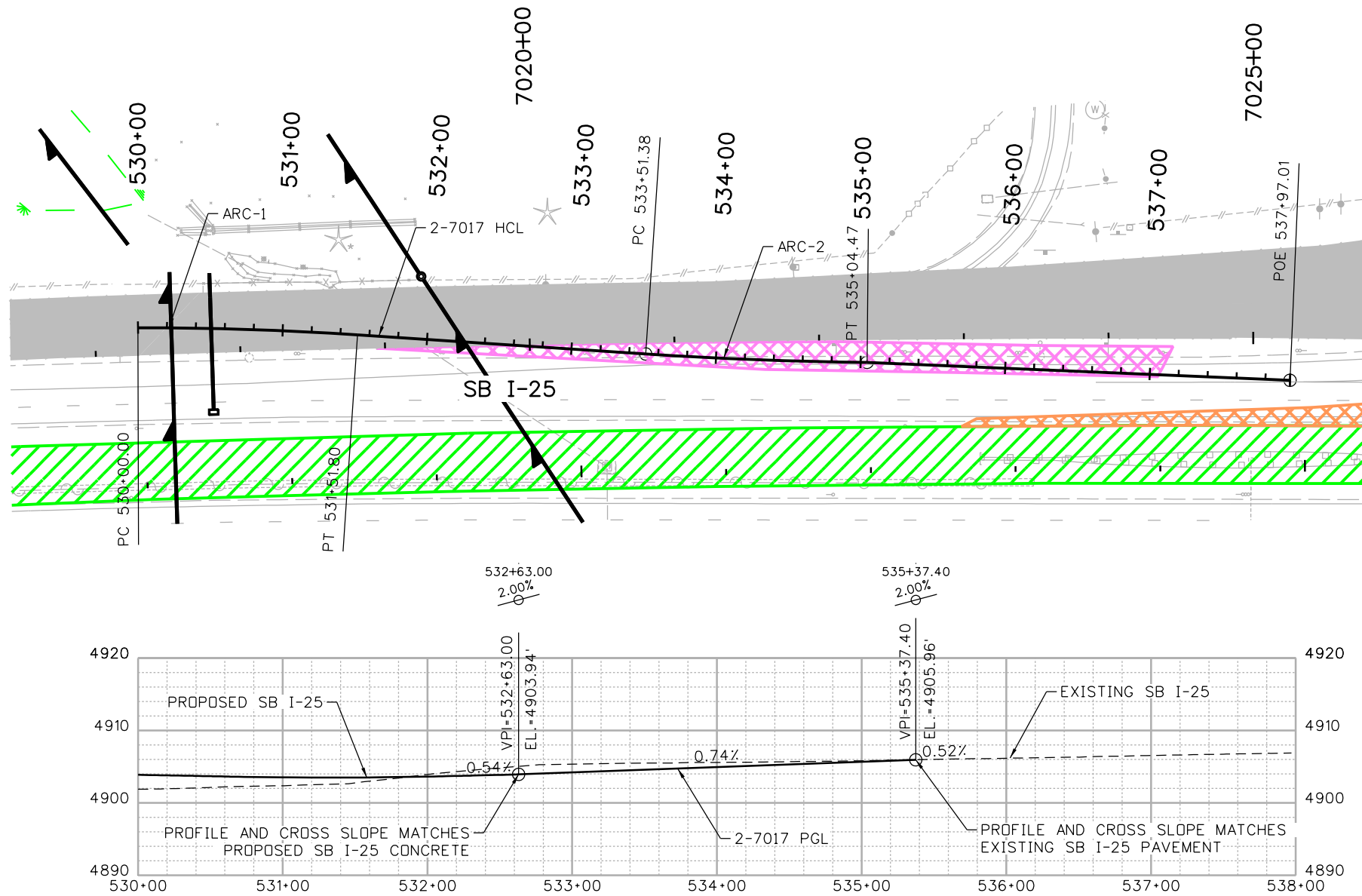
LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING
SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP)
350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

Segment 5M - RFC - CDOT - 10.19.2020

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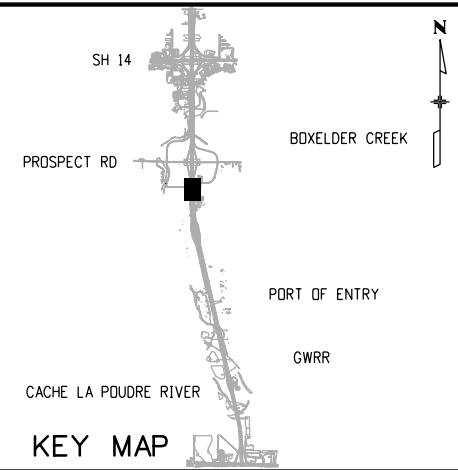


PHASE 2 - 7017 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	530+00.00	299437.67	185693.73						
Arc-1	PI	530+75.93	299513.60	185693.33	2200.00	151.80	3°57'12.56"	Right	2.00%	65 MPH
Tangent	PT	531+51.80	299589.38	185698.17						
Tangent	PC	533+51.38	299788.55	185710.87						
Arc-2	PI	534+27.95	299864.96	185715.75	2700.00	153.09	3°14'55.57"	Left	-2.00%	65 MPH
Tangent	PT	535+04.47	299941.53	185716.28						
Tangent	POE	537+97.01	300233.83	185727.85						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE

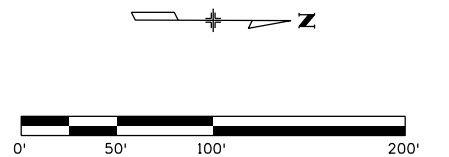


NOTES:

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LEGEND:

- DIRECTION OF TRAVEL
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- PREVIOUSLY COMPLETED WORK
- STRUCTURE
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- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



Print Date: 10/15/2020
File Name: 21506DES_MOT_Geometry-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

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Date:	Comments	Init.

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Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 19 of 73

Project No./Code

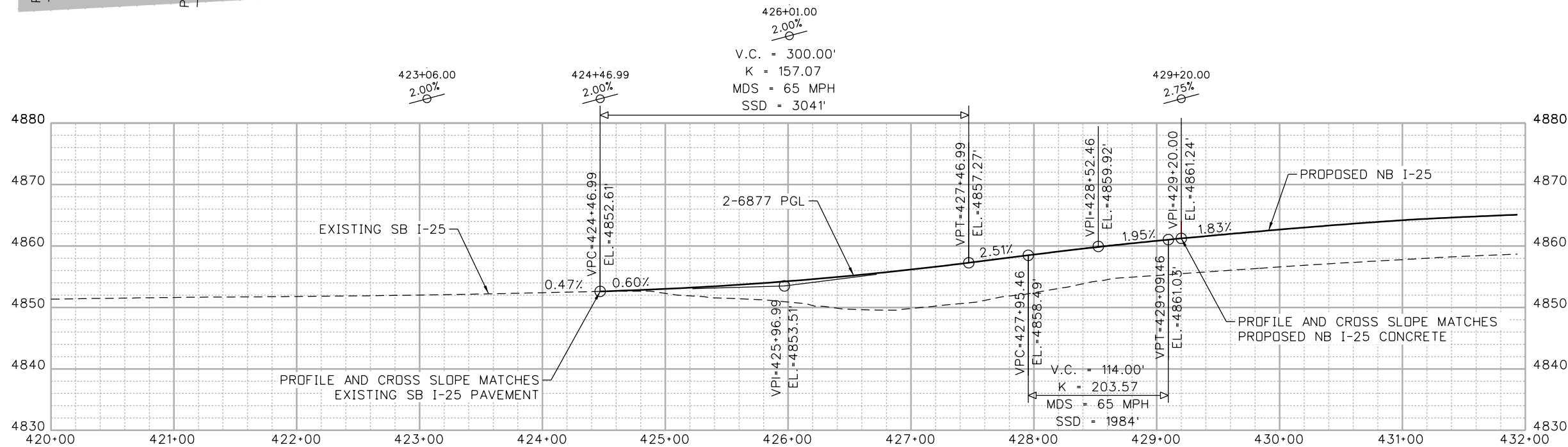
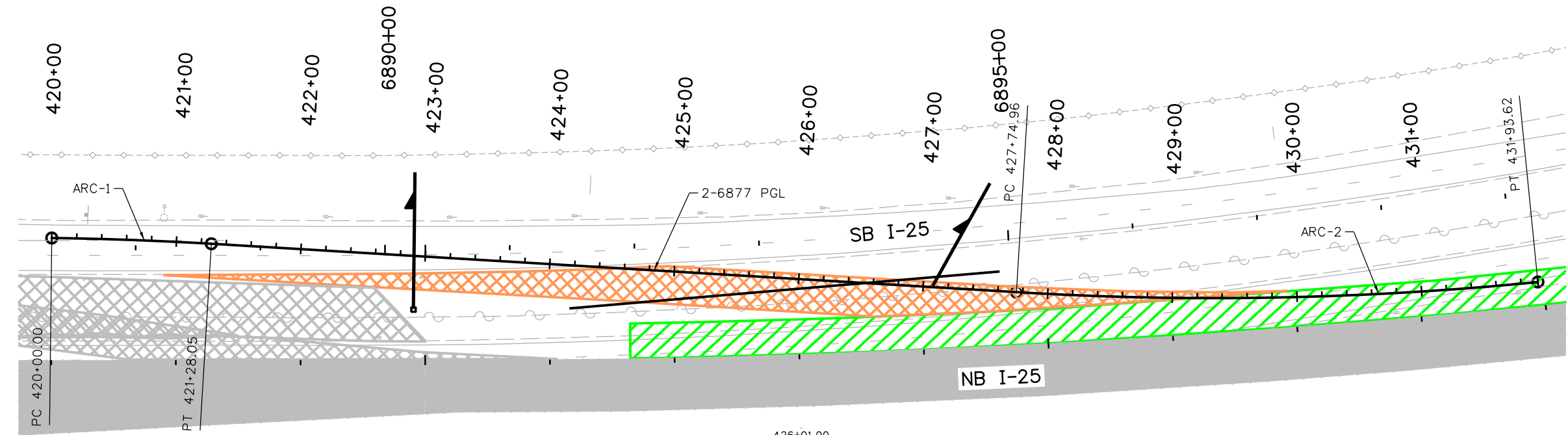
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21506

Sheet
Number

438

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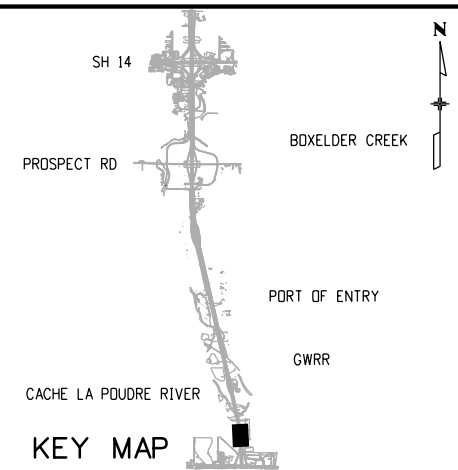


PHASE 2 - 6877 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	420+00.00	286724.49	188274.74						
Arc-1	PI	420+64.04	286788.50	188272.81	2654.00	128.05	2°45'52"	Right	-2.00%*	65 MPH
Tangent	PT	421+28.05	286852.53	188273.96						
Tangent	PC	427+74.96	287499.33	188285.59						
Arc-2	PI	429+84.73	287709.07	188289.37	2632.00	418.66	9°06'50"	Left	2.00%	65 MPH
Arc-2	PT	431+93.62	287916.76	188259.87						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE

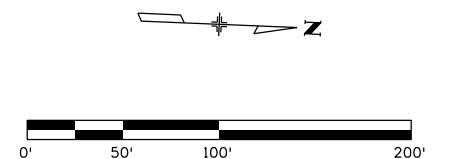


NOTES:

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Print Date: 10/15/2020
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Date:	Comments	Init.

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NORTH I-25 EXPRESS LANES
PHASE 2 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 20 of 73

Project No./Code

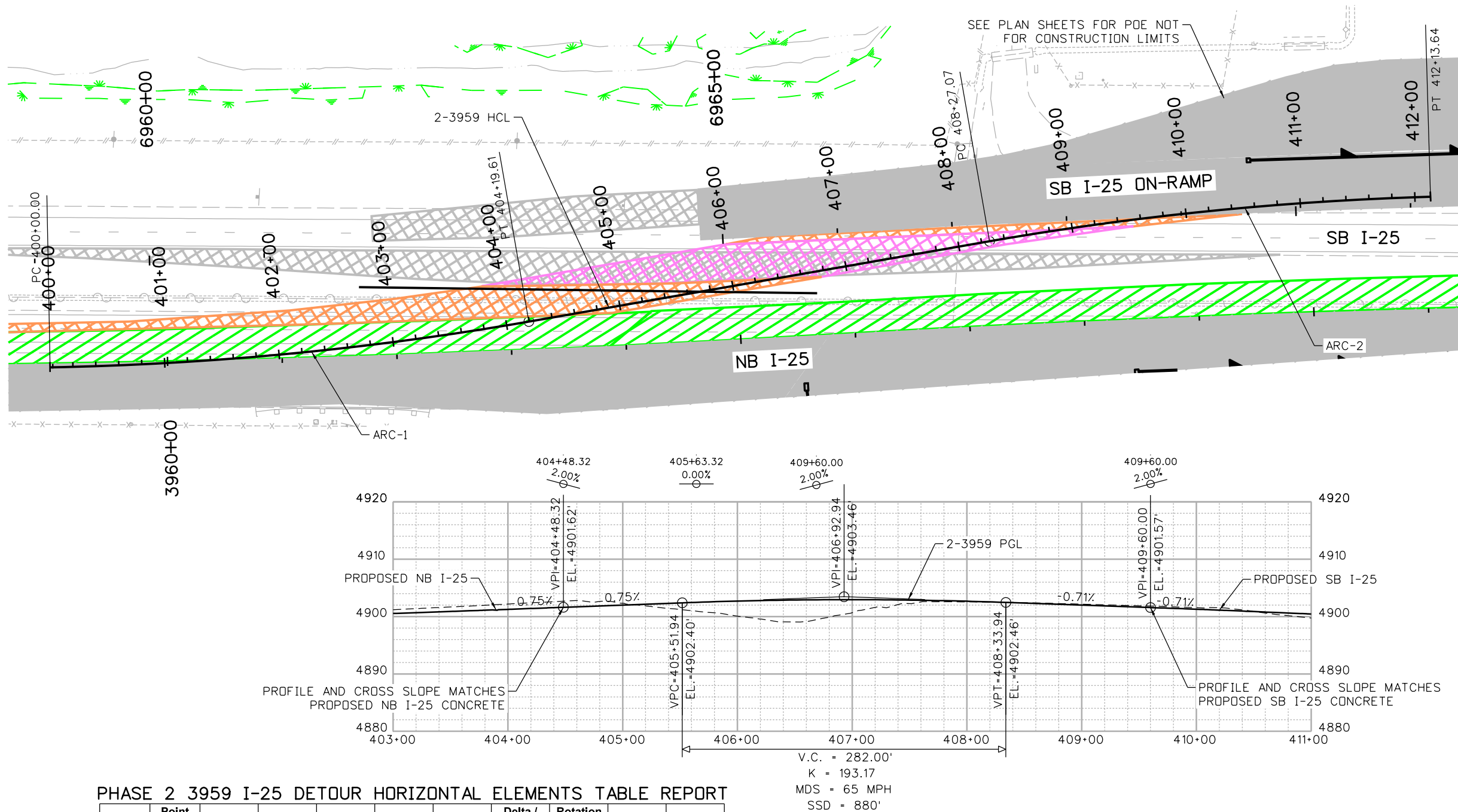
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Sheet
Number 439

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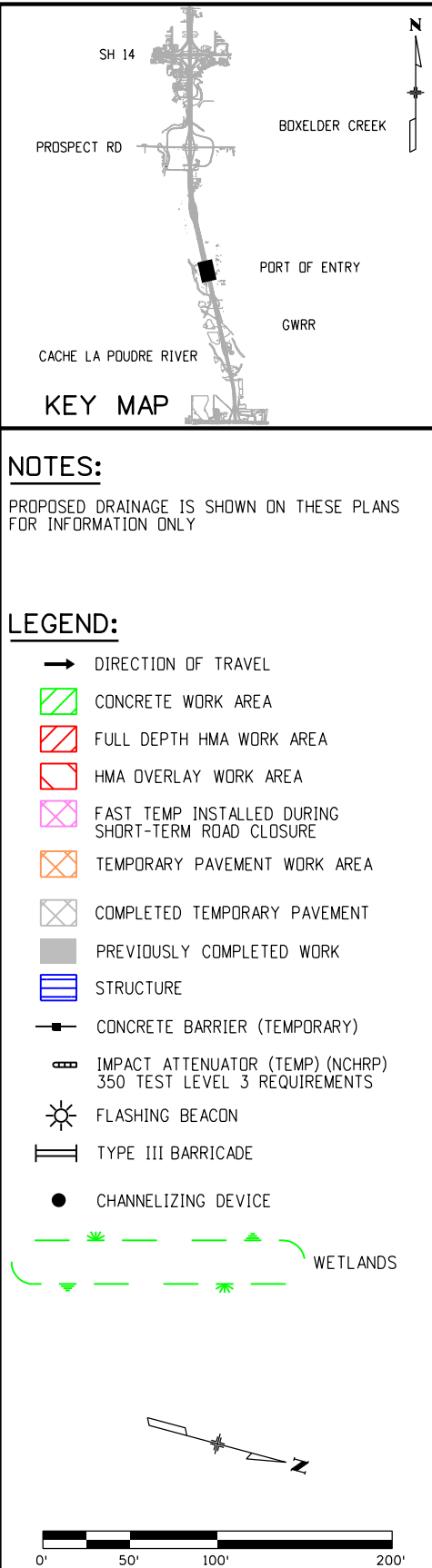


PHASE 2 3959 I-25 DETOUR HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	400+00.00	293768.24	186935.92						
Arc-1	PI	402+10.22	293971.97	186884.09	2722.00	419.61		Left	-2.00%	65 MPH
Tangent	PT	404+19.61	294165.33	186801.58						
Tangent	PC	408+27.07	294540.10	186641.68						
Arc-2	PI	410+20.69	294718.18	186565.70	2689.00	386.57		Right	-2.00%	65 MPH
Arc-2	PT	412+13.64	294905.32	186516.01						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE



NOTES:

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- CONCRETE BARRIER (TEMPORARY)
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- FLASHING BEACON
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- CHANNELIZING DEVICE
- WETLANDS

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File Name: 21506DES_MOT_Geometry-S5M.dgn
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Region 4

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No Revisions:

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Void:

NORTH I-25 EXPRESS LANES
PHASE 2 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 21 of 73

Project No./Code

IM 0253-255

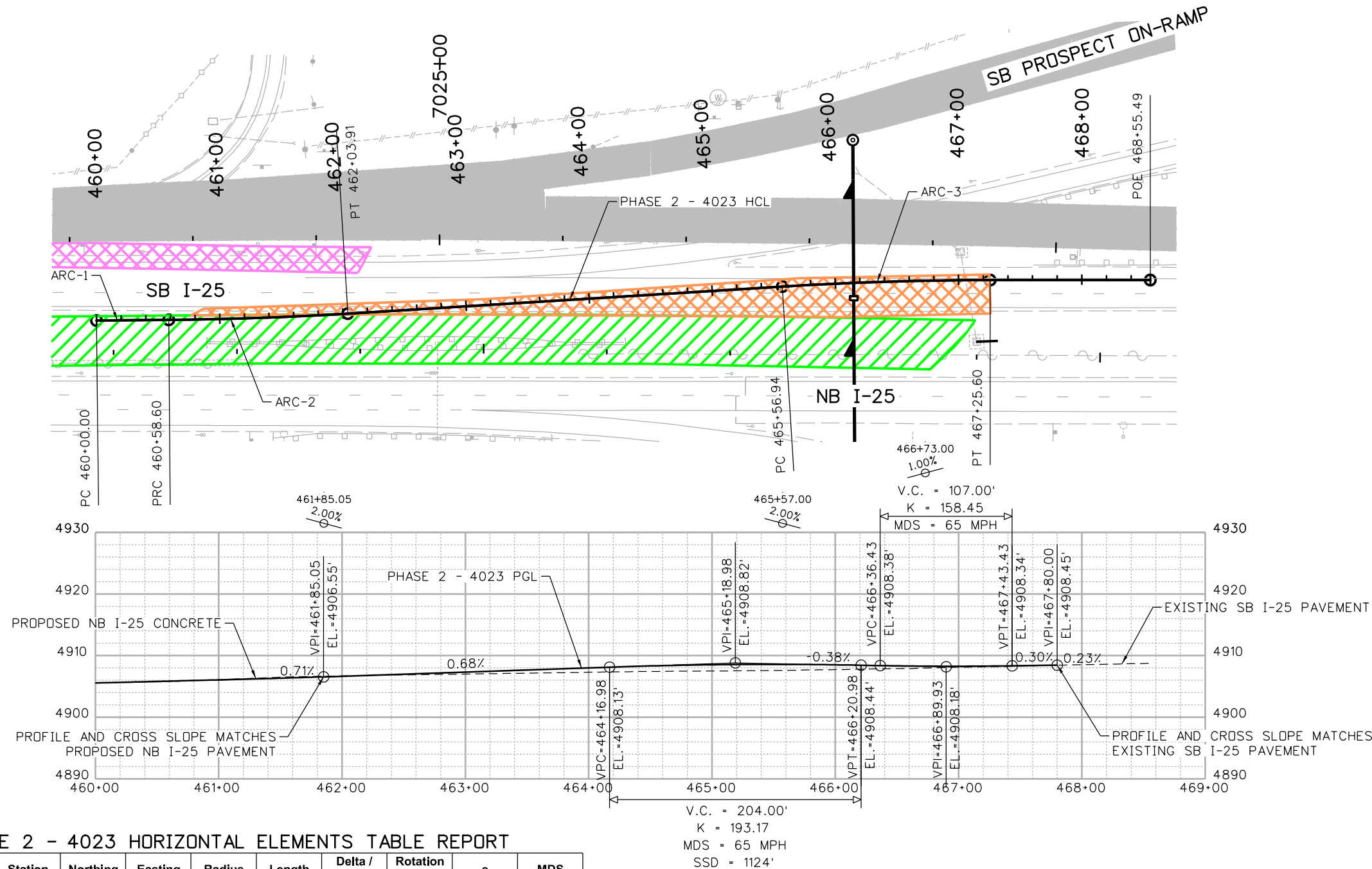
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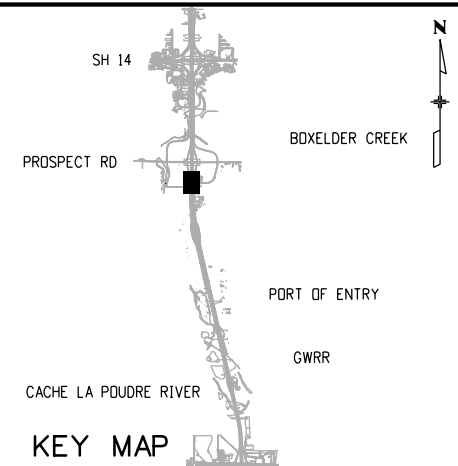


PHASE 2 - 4023 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	460+00.00	299930.40	185764.90						
Arc-1	PI	460+29.30	299959.70	185764.51	22746.00	58.60	0°08'51"	Right	-2.00%	65 MPH
Arc-1/2	PRC	460+58.60	299988.99	185764.20						
Arc-2	PI	461+31.27	300061.66	185763.43	2678.00	145.31	3°06'32"	Left	-2.00%	65 MPH
Tangent	PT	462+03.91	300134.19	185758.72						
Tangent	PC	465+56.94	300486.47	185735.84						
Arc-3	PI	466+41.30	300570.65	185730.37	2722.00	168.66	3°33'00"	Right	-1.00%	65 MPH
Tangent	PT	467+25.60	300655.01	185730.13						
Tangent	POE	468+55.49	300784.89	185729.75						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE

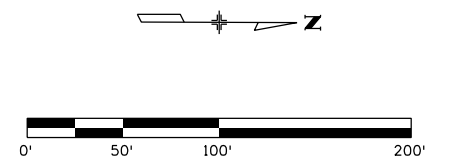


NOTES:

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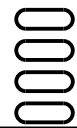
- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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NORTH I-25 EXPRESS LANES
PHASE 2 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 22 of 73

Project No./Code

IM 0253-255

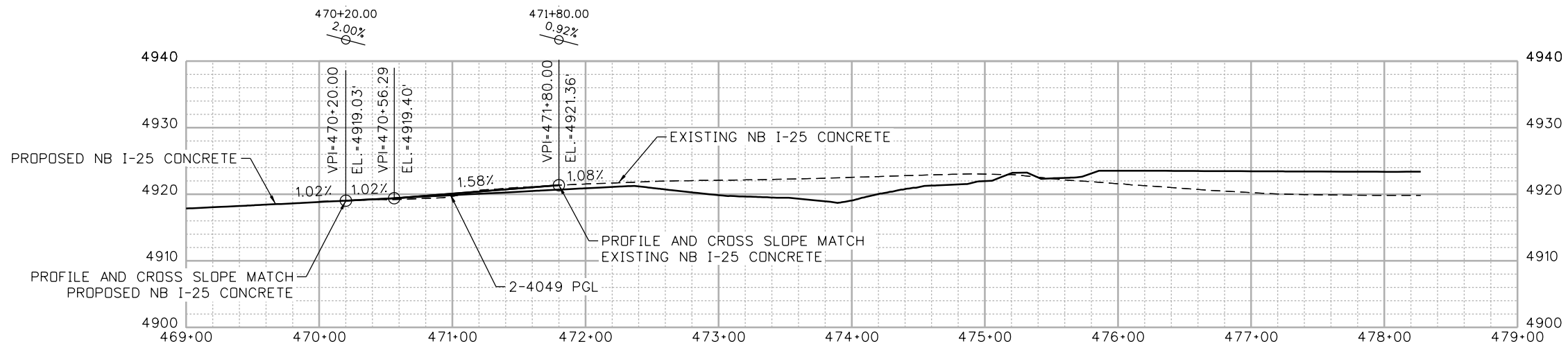
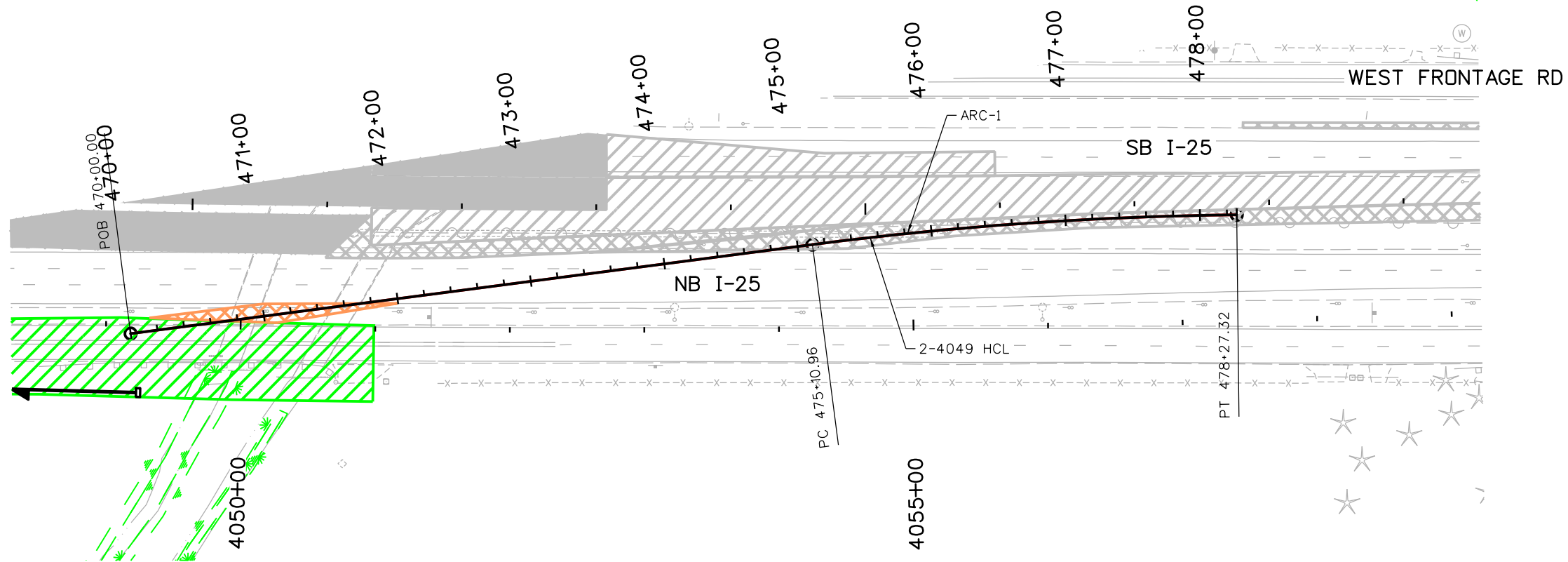
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Sheet
Number

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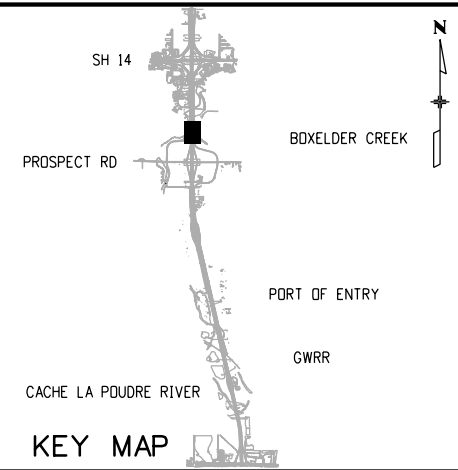


PHASE 2 - 4049 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Tangent	POB	470+00.00	302661.17	185869.64						
Tangent	PC	475+10.96	303167.68	185802.26						
Arc-1	PI	476+69.33	303324.66	185781.38	2667.00	316.36	6°47'47"	Right	-2.00%	65 MPH
Arc-1	PT	478+27.32	303483.00	185779.22						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE

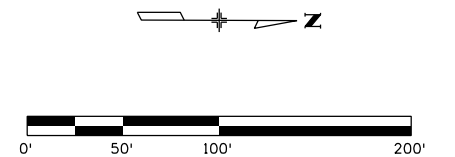


NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



Print Date: 10/15/2020
File Name: 21506DES_MOT_Geometry-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

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Date:	Comments	Init.

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Region 4

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CJS

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure Numbers

Subset Sheets: 23 of 73

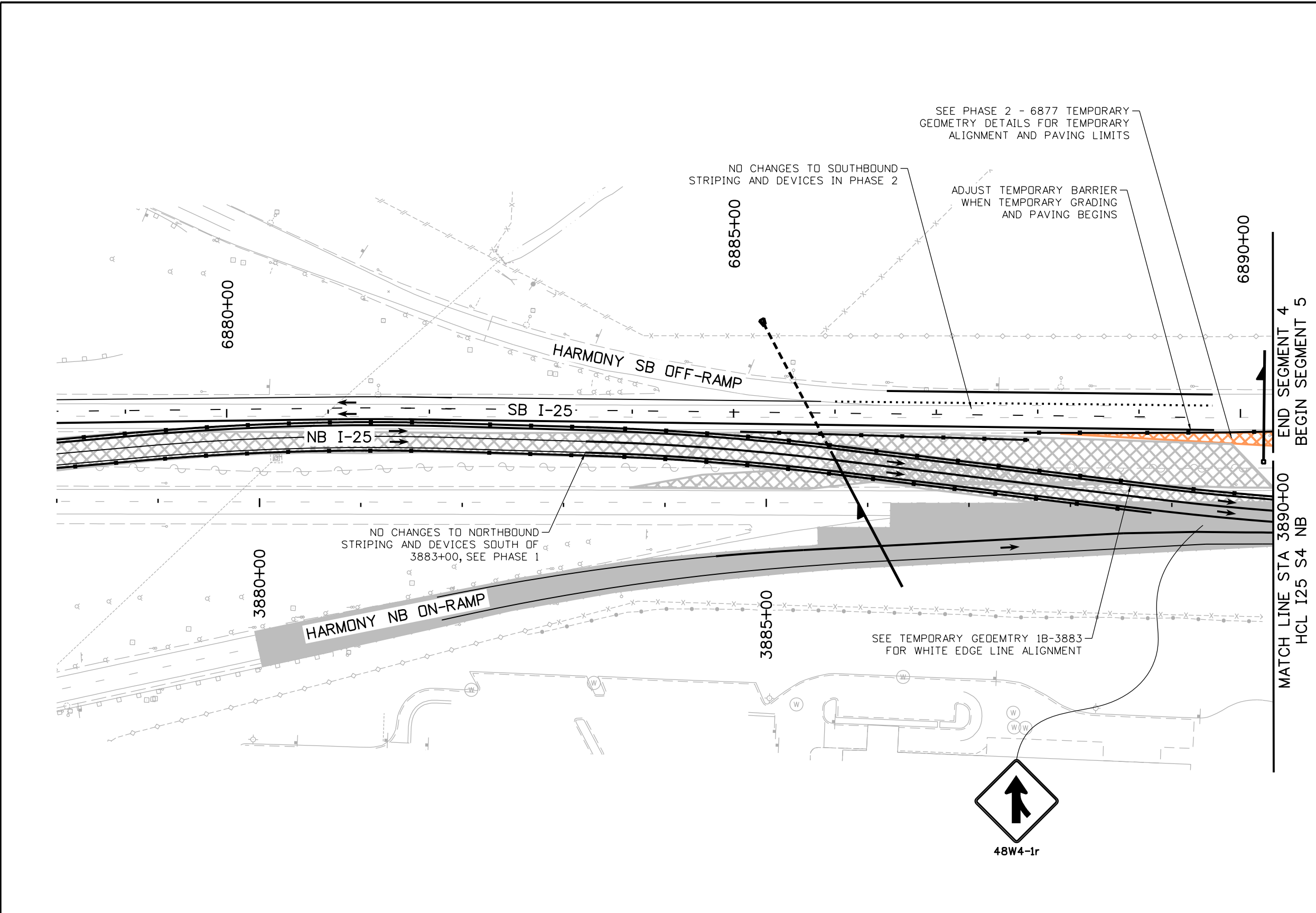
Project No./Code

IM 0253-255

21506

Sheet Number 442

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KEY MAP

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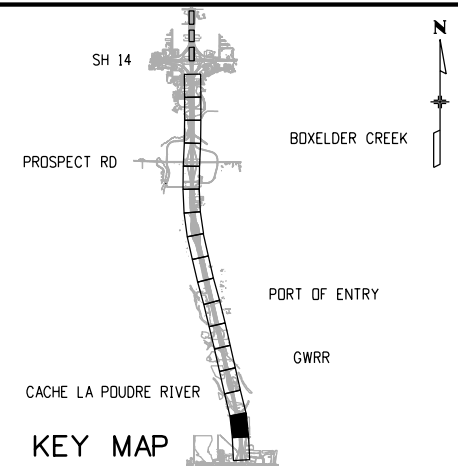
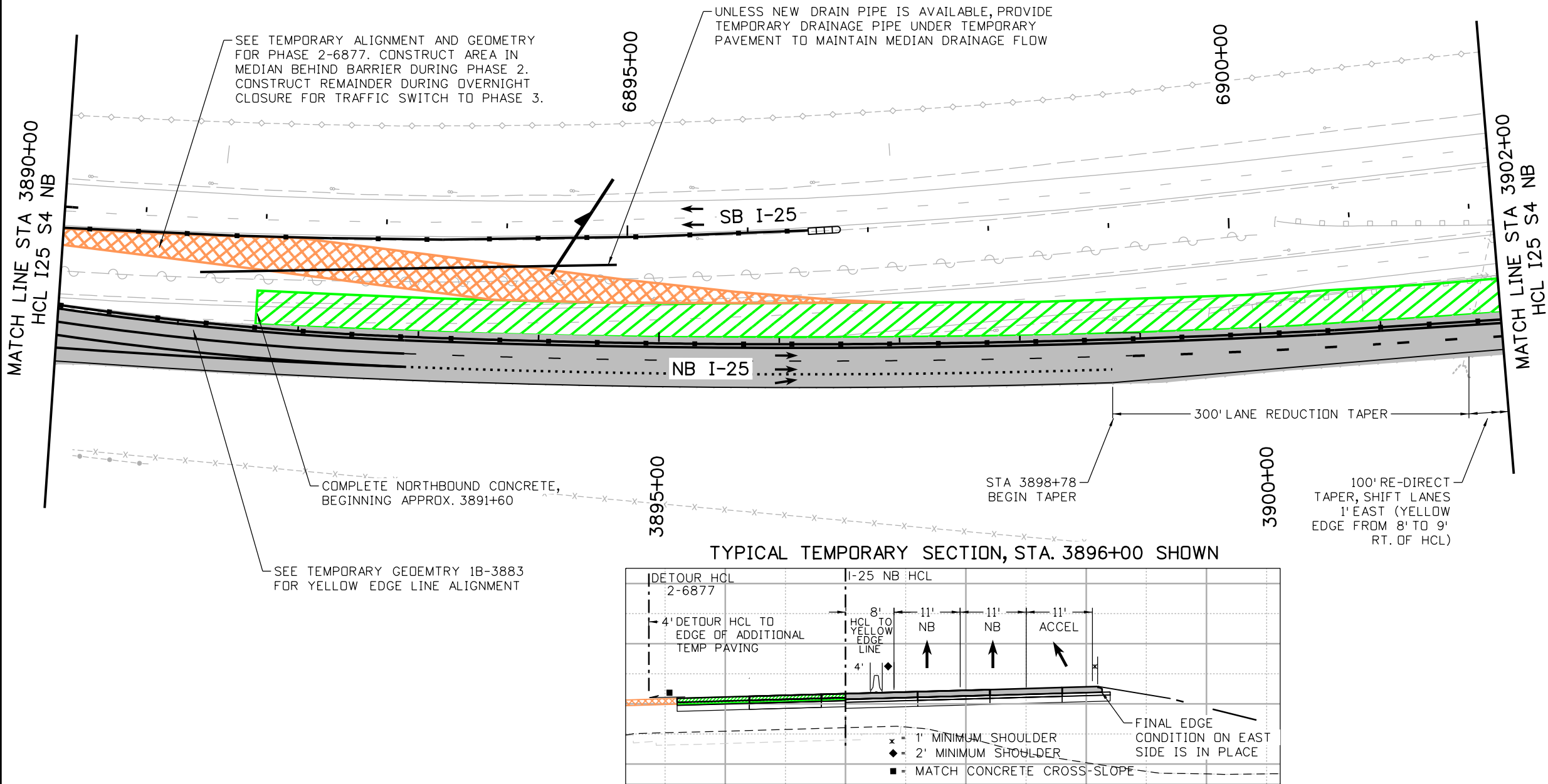
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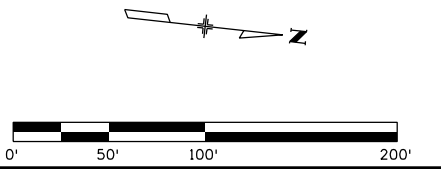
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Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:		Designer: D. Woolfall		Structure		
RS&H KRAEMER a joint venture							Void:		Detailer: A. Mahmood		Numbers		
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NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

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Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_2_SHT 0 to 5-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

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Void:

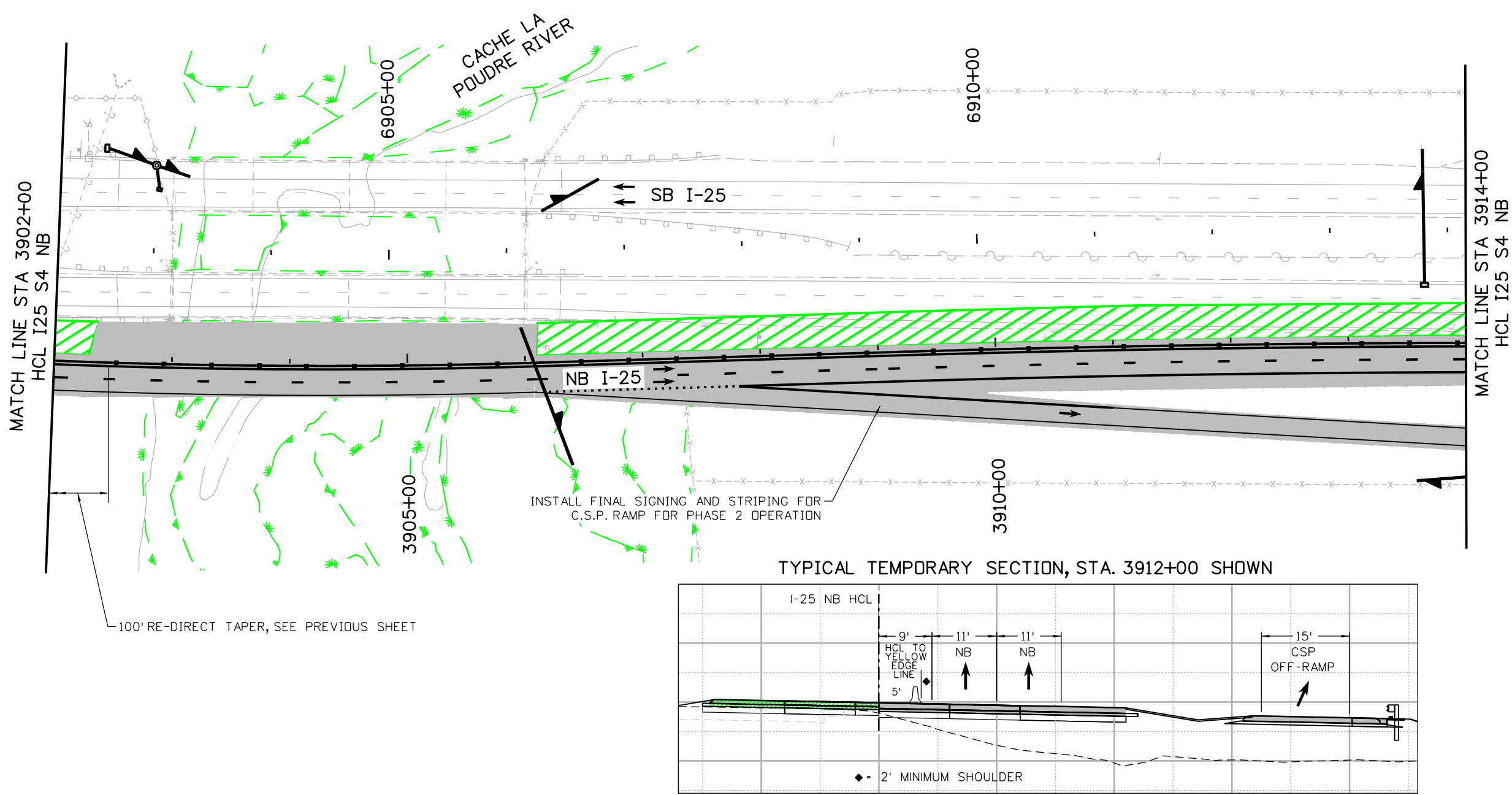
**NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN**

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure Numbers
Subset Sheets: 25 of 73

Project No./Code
IM 0253-255
21506
Sheet Number 444

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SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
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- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

Print Date: 10/15/2020

File Name: 21506DES_MOT_Phasing_2_SHT 0 to 5-S5M.dgn

Horiz. Scale: 1:100 Vert. Scale: As Noted

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Sheet Revisions			
Date:	Comments	Init.	

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CDOT

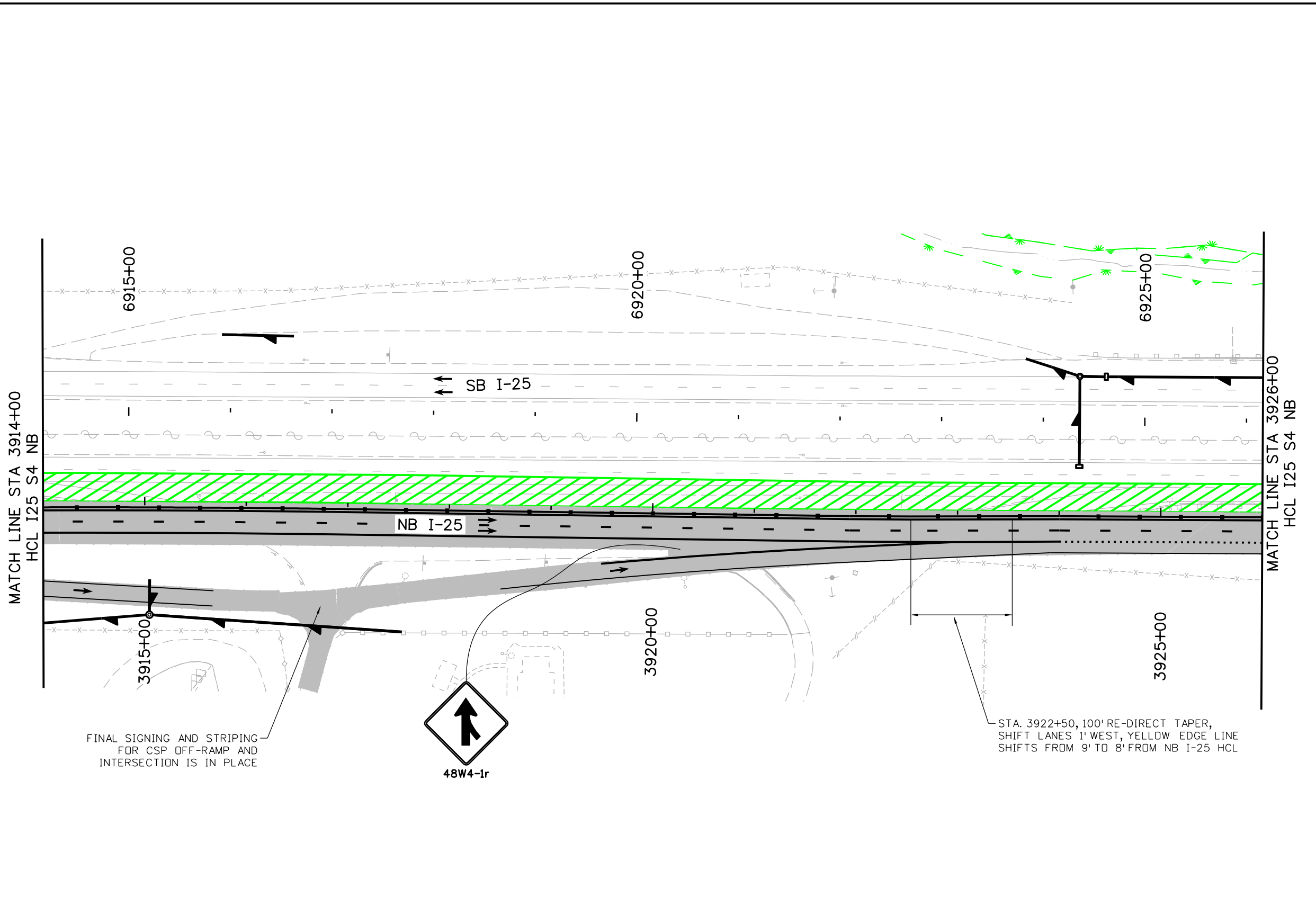
Region 4

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Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed		NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
No Revisions:		Designer: D. Woolfall			IM 0253-255	
Revised:		Detailer: A. Mahmood			21506	
Void:		Sheet Subset: MOT			Sheet Number 445	
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SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

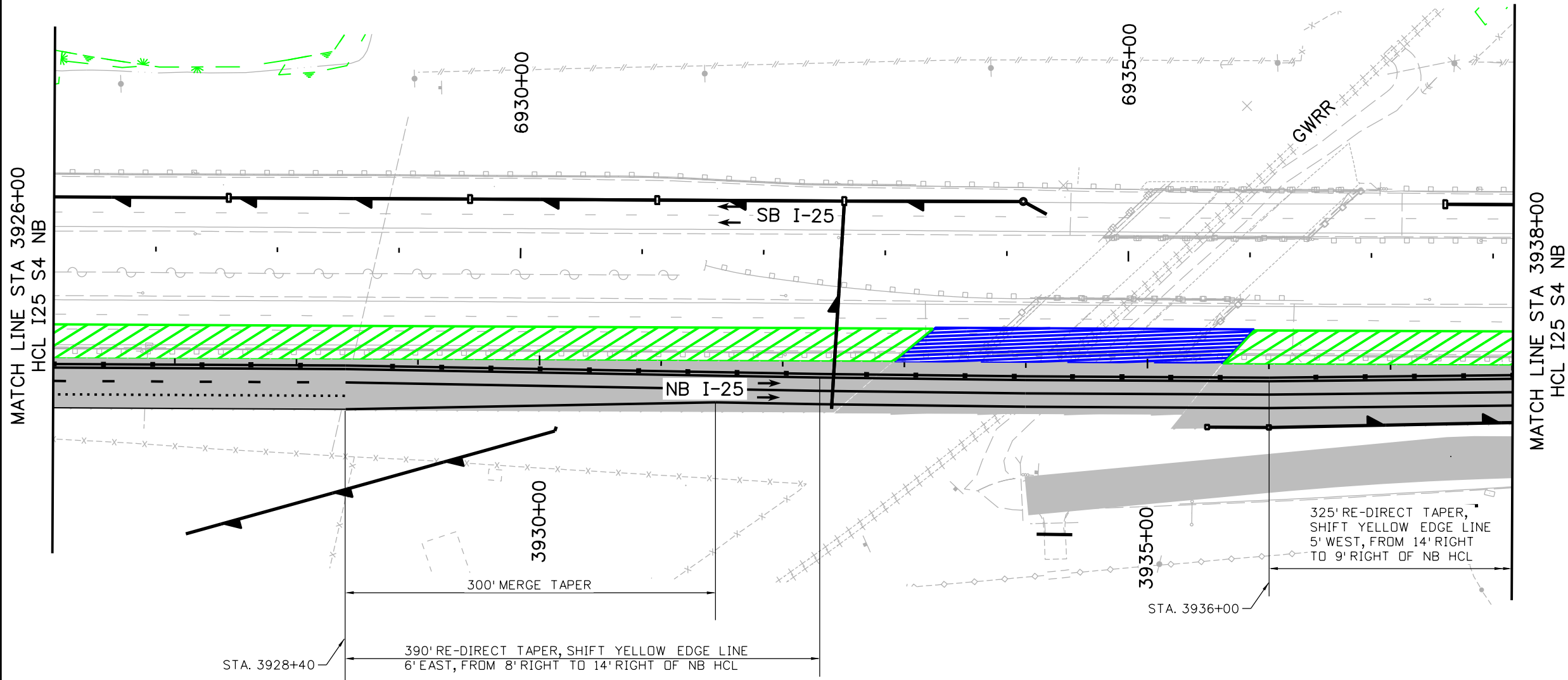
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- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

Print Date: 10/15/2020		0000	Sheet Revisions			CDOT CO 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code		
File Name: 21506DES_MOT_Phasing_2_SHT 0 to 5-S5M.dgn			Date:	Comments	Init.		No Revisions:					IM 0253-255		
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RS&H KRAEMER a joint venture							Void:		Detailer: A. Mahmood		Numbers		Sheet	
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SH 14

PROSPECT RD

CACHE LA POUDRE RIVER

BOXELDER CREEK

PORT OF ENTRY

GWRR

KEY MAP

NOTES:

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- WETLANDS

0' 50' 100' 200'

Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_2_SHT 0 to 5-S5M.dgn
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Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 28 of 73

Project No./Code

IM 0253-255

21506

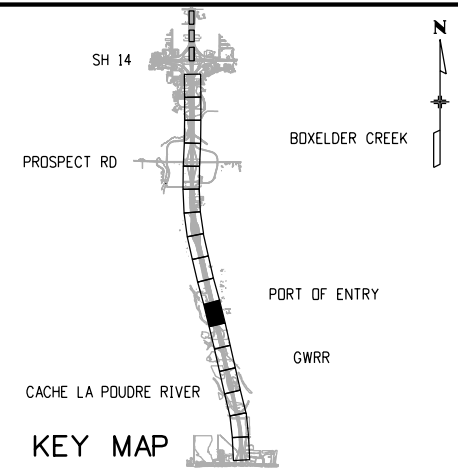
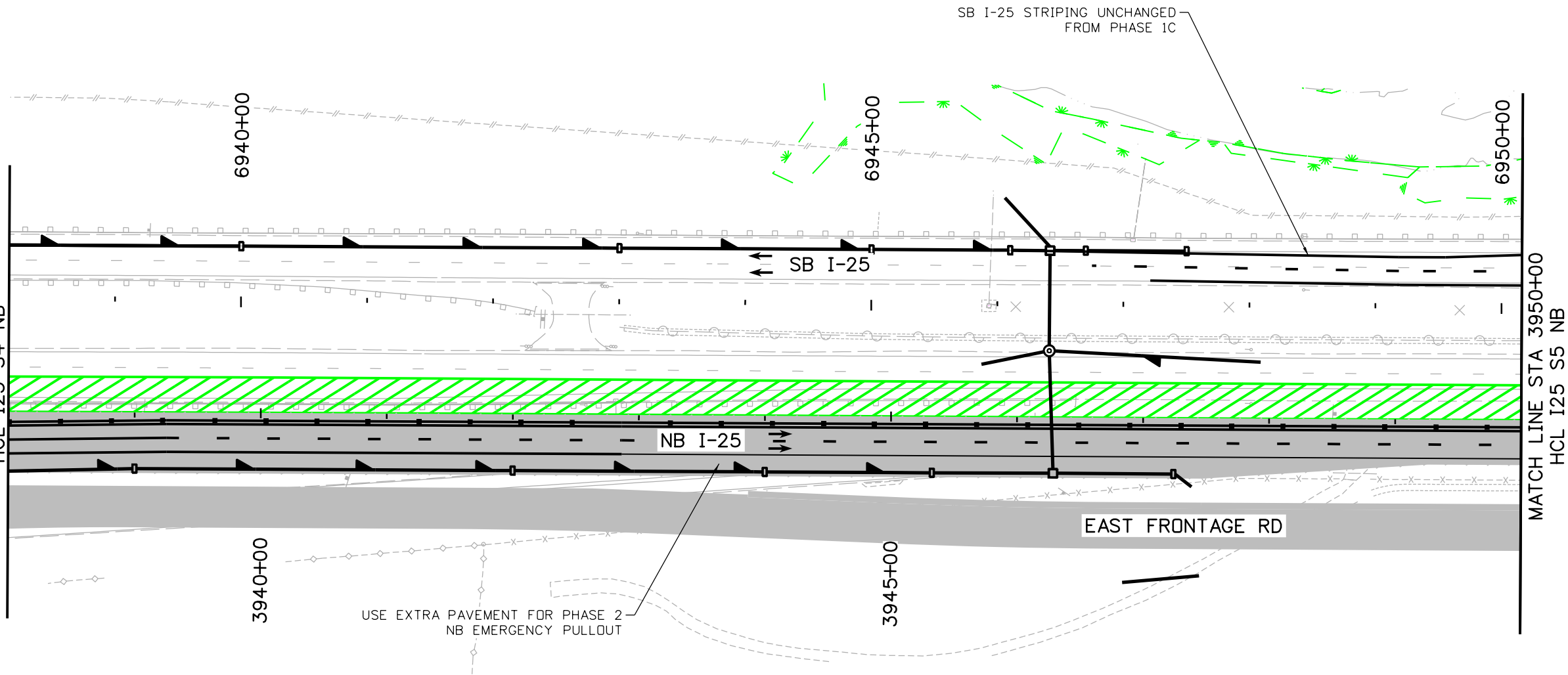
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Segment 5M - RFC - CDOT - 10.19.2020

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MATCH LINE STA 3938+00
HCL I25 S4 NB

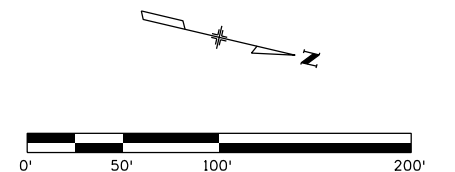


NOTES:

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- PREVIOUSLY COMPLETED WORK
- STRUCTURE
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- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



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Revised:

Void:

**NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN**

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 29 of 73

Project No./Code

IM 0253-255

21506

Sheet
Number 448

Segment 5M - RFC - CDOT - 10.19.2020

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Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_2_SHT 6 to 11-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

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As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 30 of 73

Project No./Code

IM 0253-255

21506

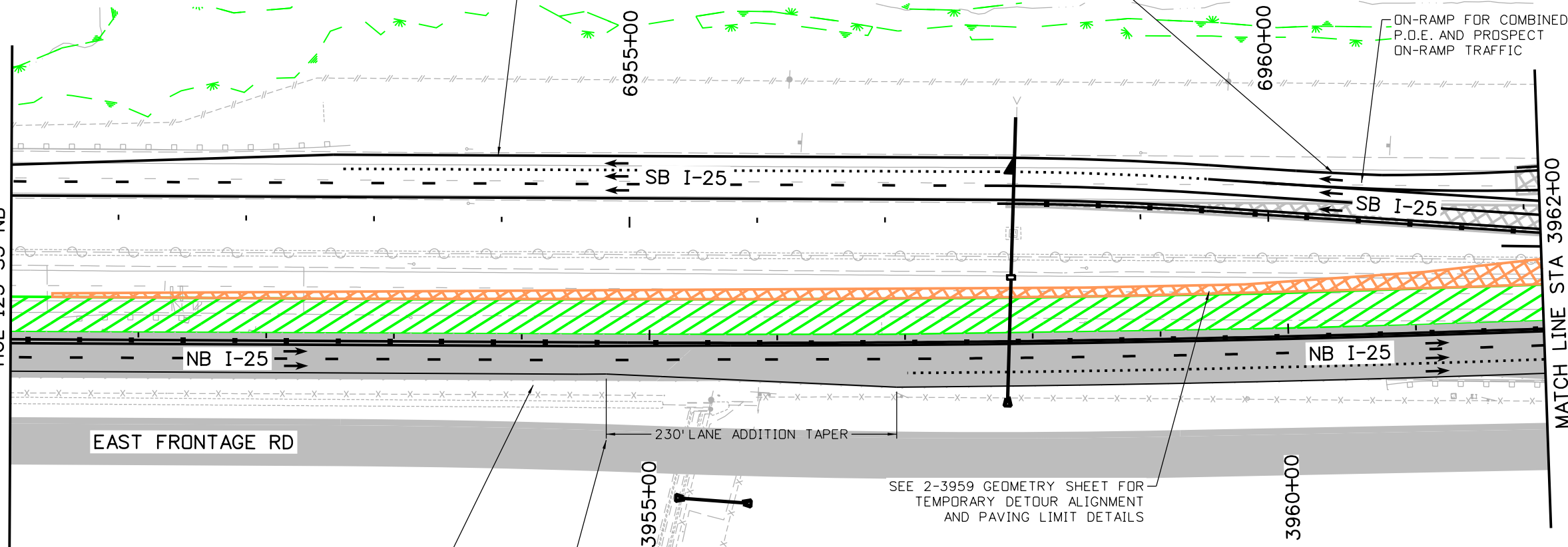
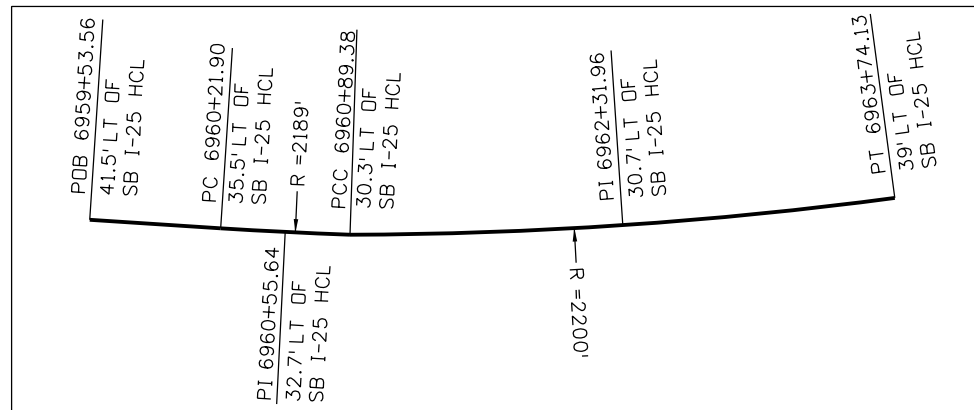
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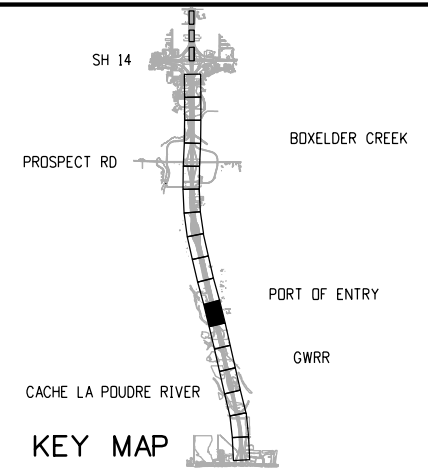
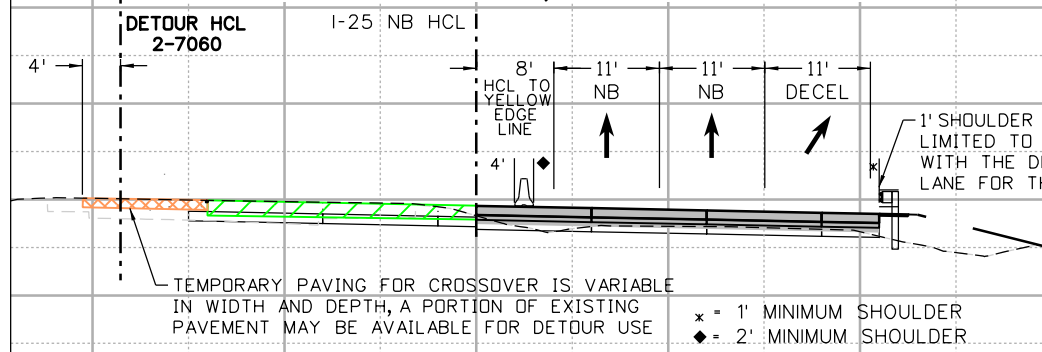
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HCL I25 S5 NB

SB ON-RAMP TEMPORARY STRIPING DETAIL



SEE 2-3959 GEOMETRY SHEET FOR
TEMPORARY DETOUR ALIGNMENT
AND PAVING LIMIT DETAILS

TYPICAL DETOUR SECTION, STA. 3960+00 SHOWN

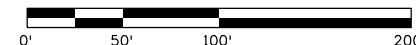


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- CHANNELIZING DEVICE
- WETLANDS



Segment 5M - RFC - CDOT - 10.19.2020

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File Name: 21506DES_MOT_Phasing_2_SHT 6 to 11-S5M.dgn
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Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 31 of 73

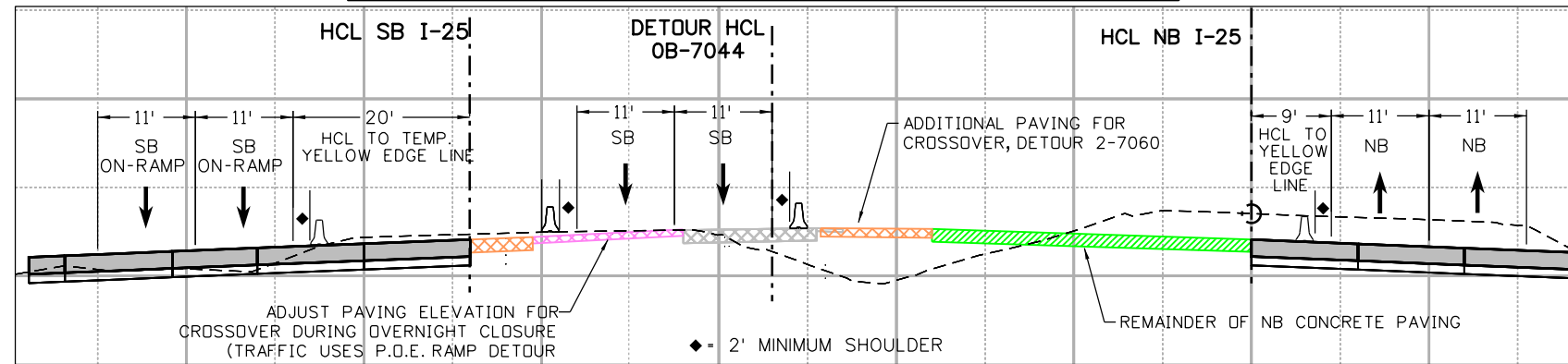
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IM 0253-255

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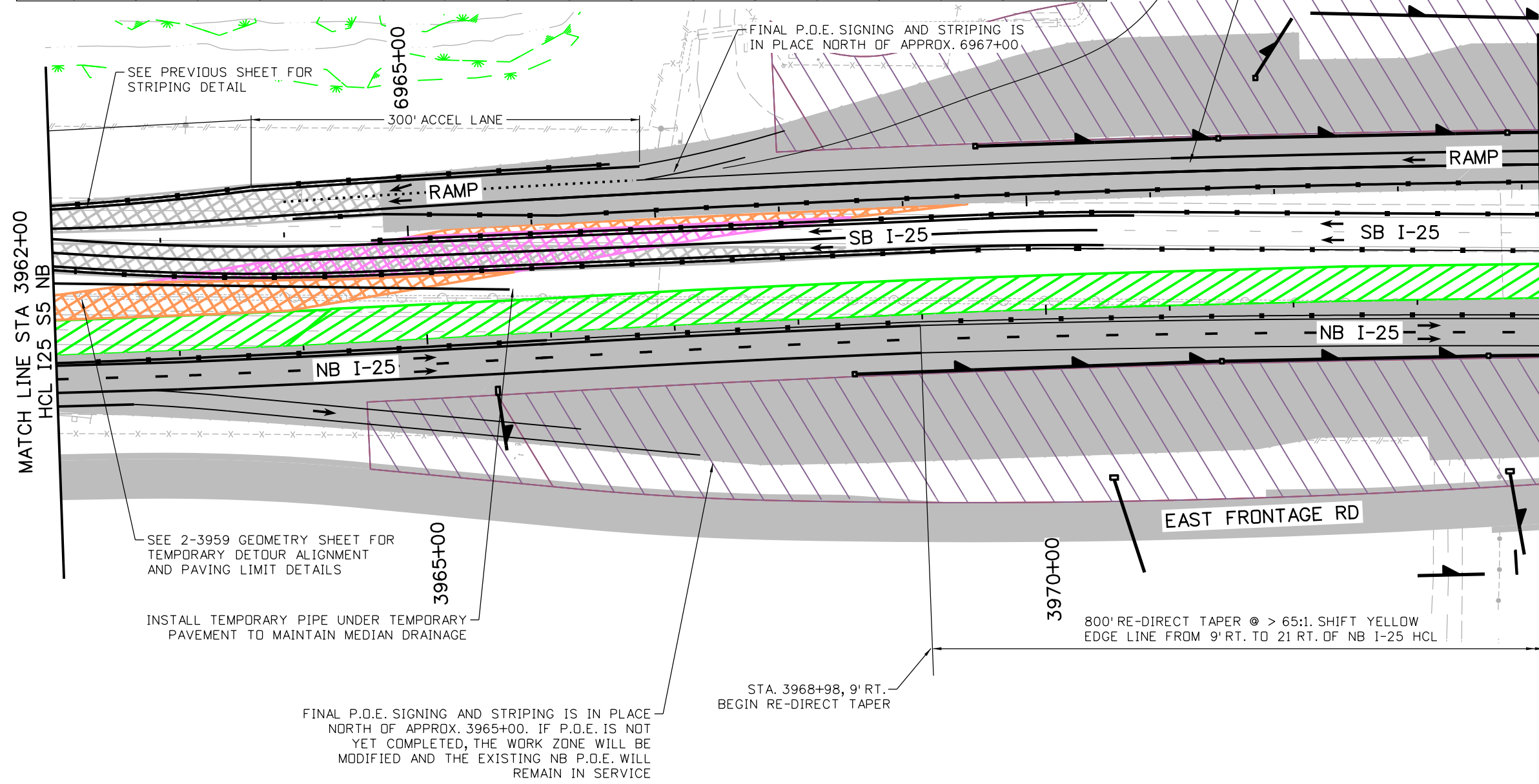
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TEMP TYPICAL DETOUR SECTION SHOWN AT STA 3967+00



48W4-1r

BYPASS LANE SERVES PROSPECT ON-RAMP TRAFFIC. LANE WILL BECOME SB I-25 LANE #2 IN PHASE 3



SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:

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- CHANNELIZING DEVICE
- WETLANDS
- NOT FOR CONSTRUCTION

Segment 5M - RFC - CDOT - 10.19.2020

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Horiz. Scale: 1:100 Vert. Scale: As Noted

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure

Numbers

Subset Sheets: 32 of 73

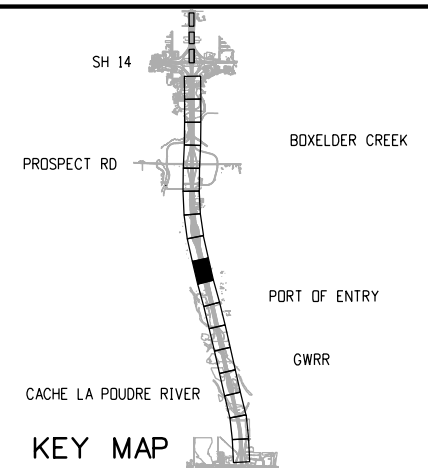
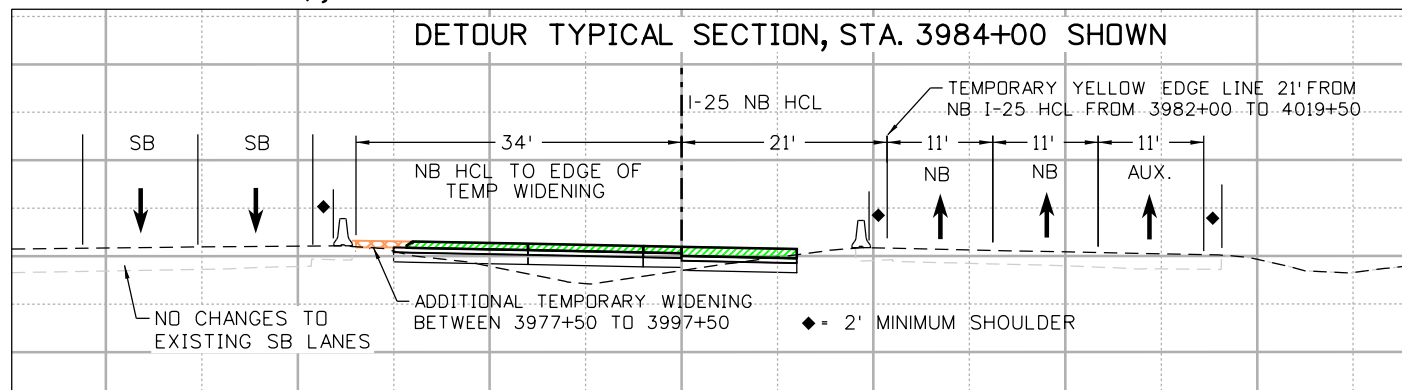
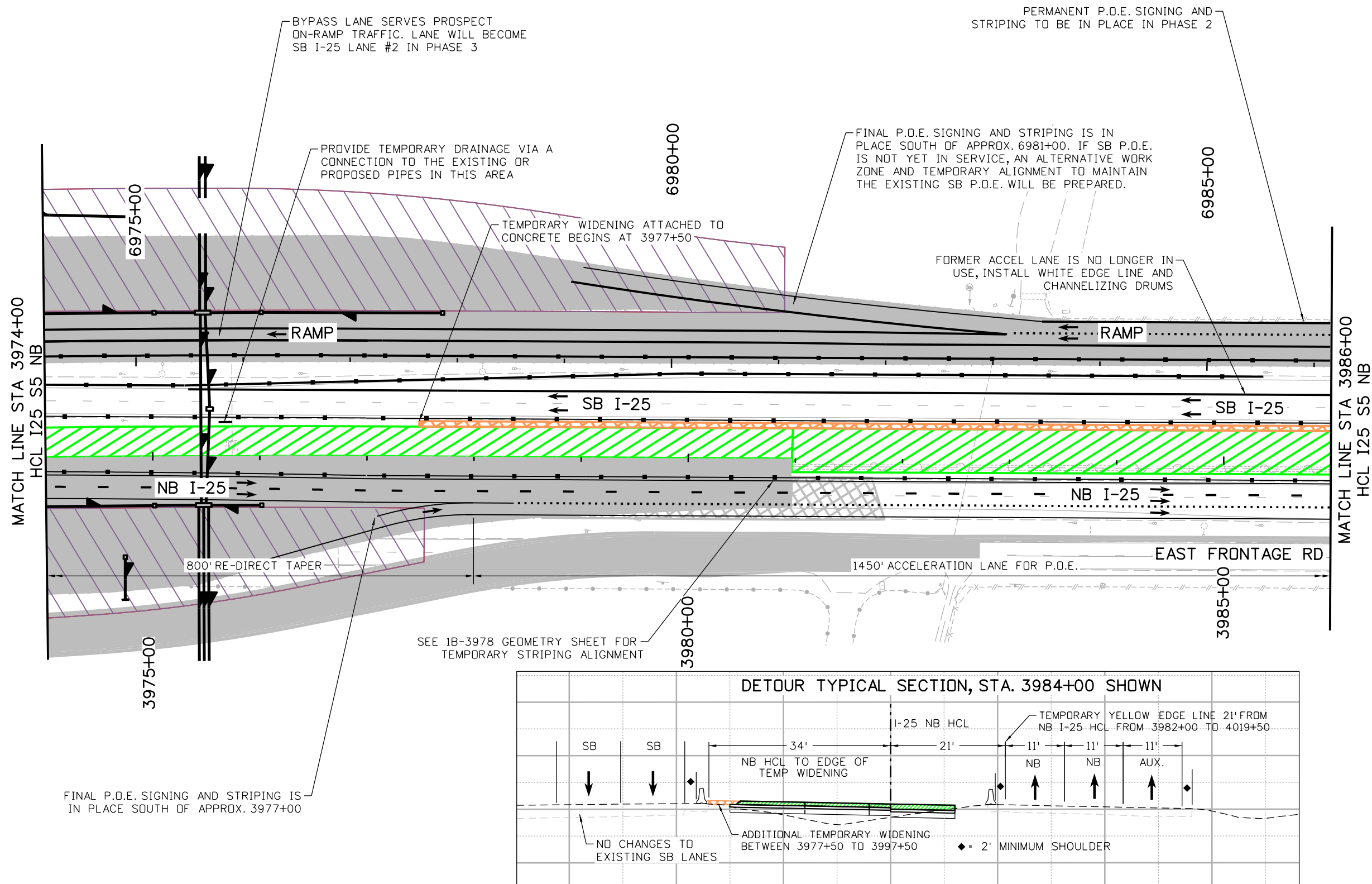
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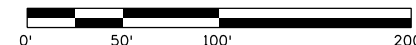


NOTES:

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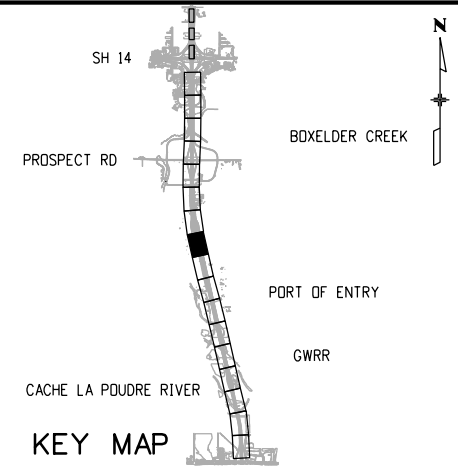
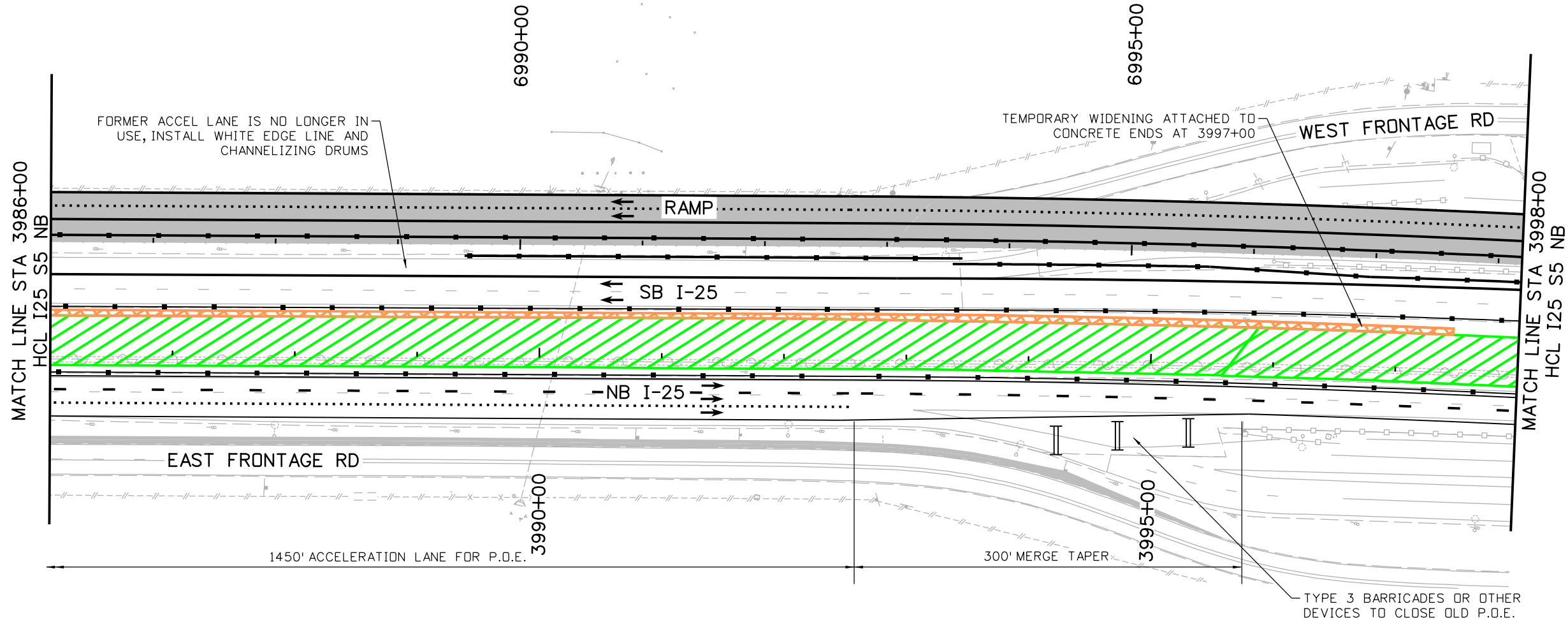
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- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS
- NOT FOR CONSTRUCTION



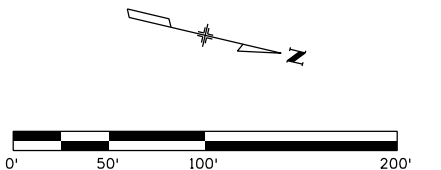
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NOTES:
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- LEGEND:**
- DIRECTION OF TRAVEL
 - CONCRETE WORK AREA
 - FULL DEPTH HMA WORK AREA
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As Constructed		NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
No Revisions:		Designer: D. Woolfall			IM 0253-255	
Revised:		Detailer: A. Mahmood			21506	
Void:		Sheet Subset: MOT			Sheet Number 452	
		Structure Numbers			Subset Sheets: 33 of 73	

Segment 5M - RFC - CDOT - 10.19.2020

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 34 of 73

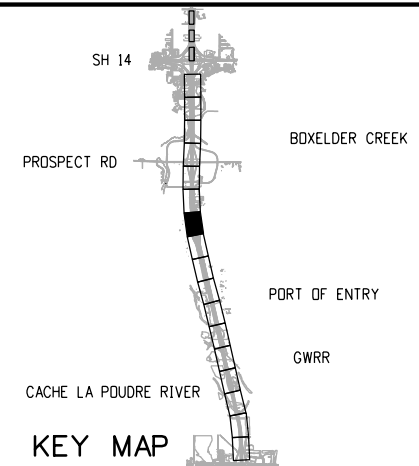
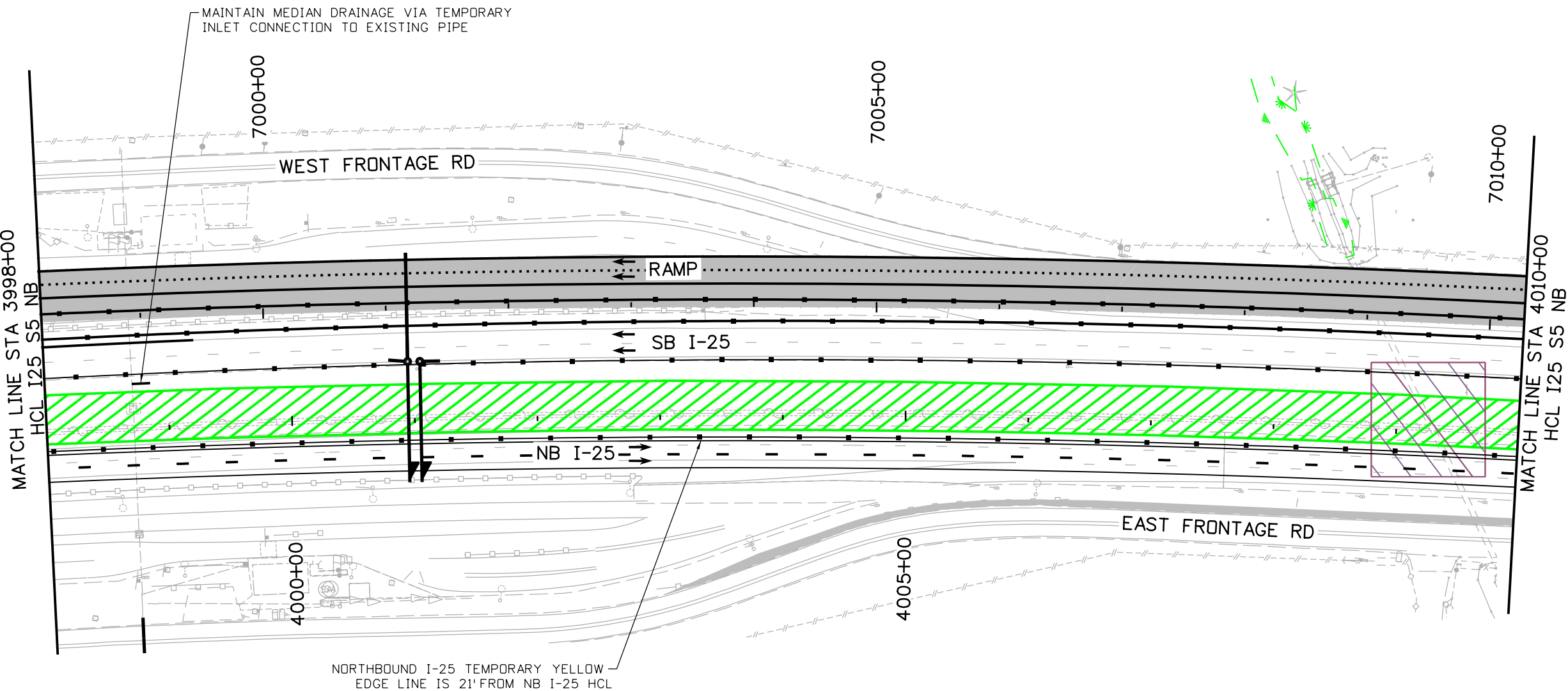
Project No./Code

IM 0253-255

21506

Sheet
Number

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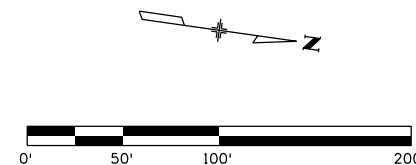


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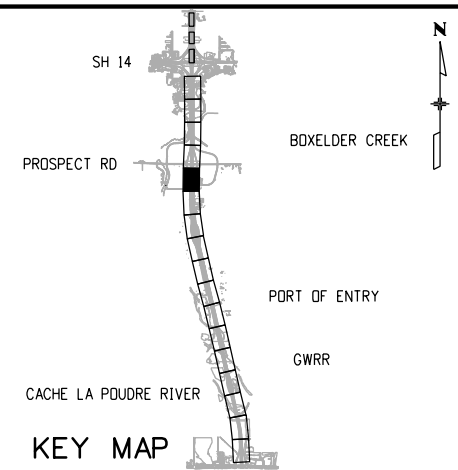
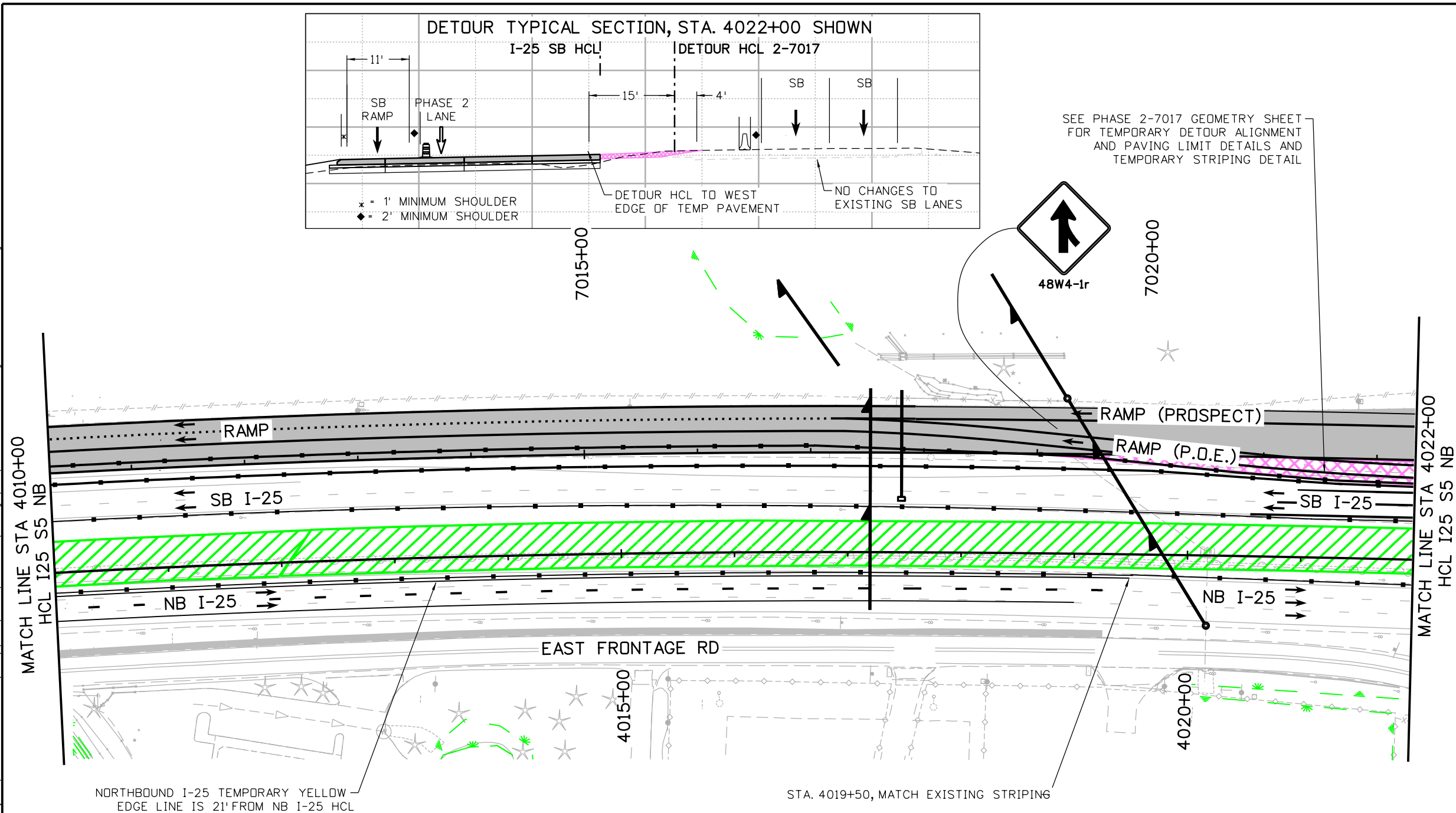
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- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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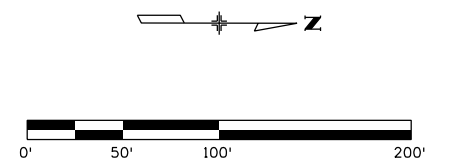


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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 35 of 73

Project No./Code

IM 0253-255

21506

Sheet Number 454

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Print Date: 10/15/2020
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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 36 of 73

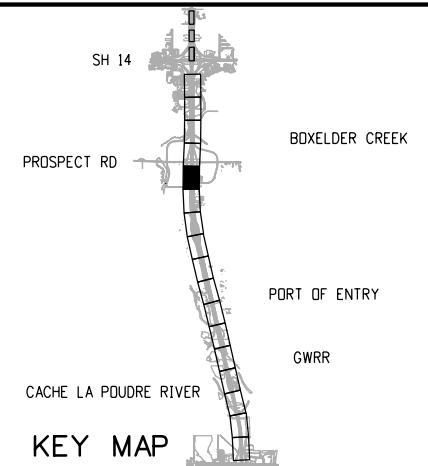
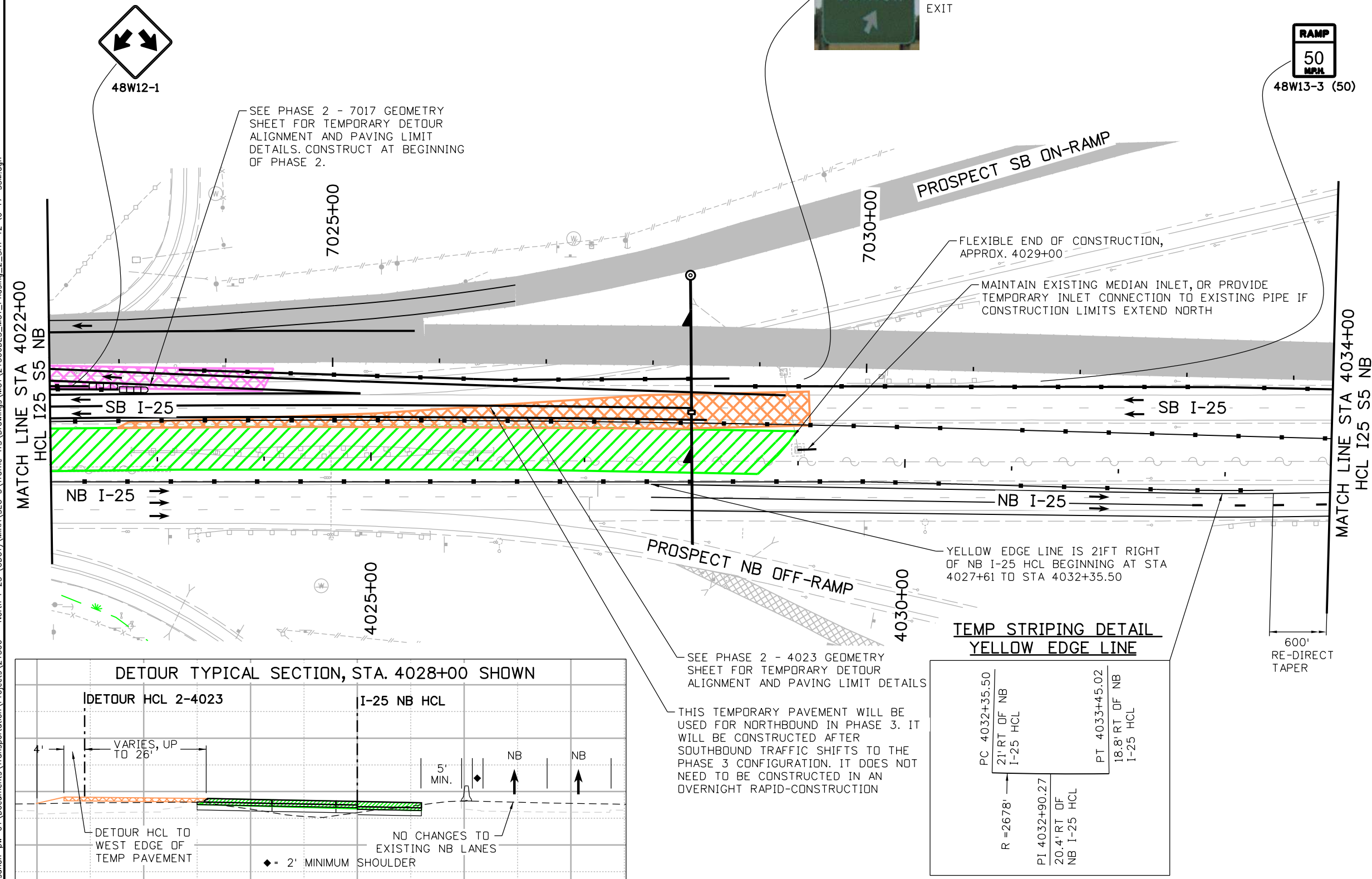
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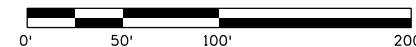


NOTES:

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 2 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

Structure
Numbers

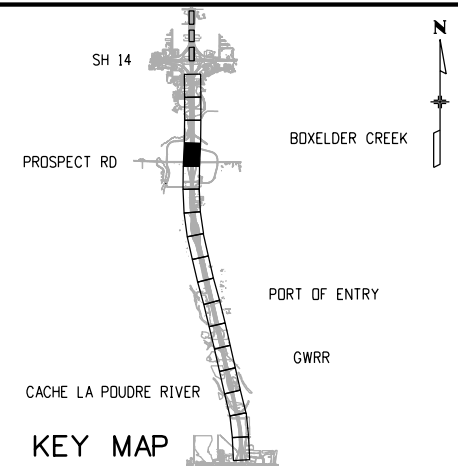
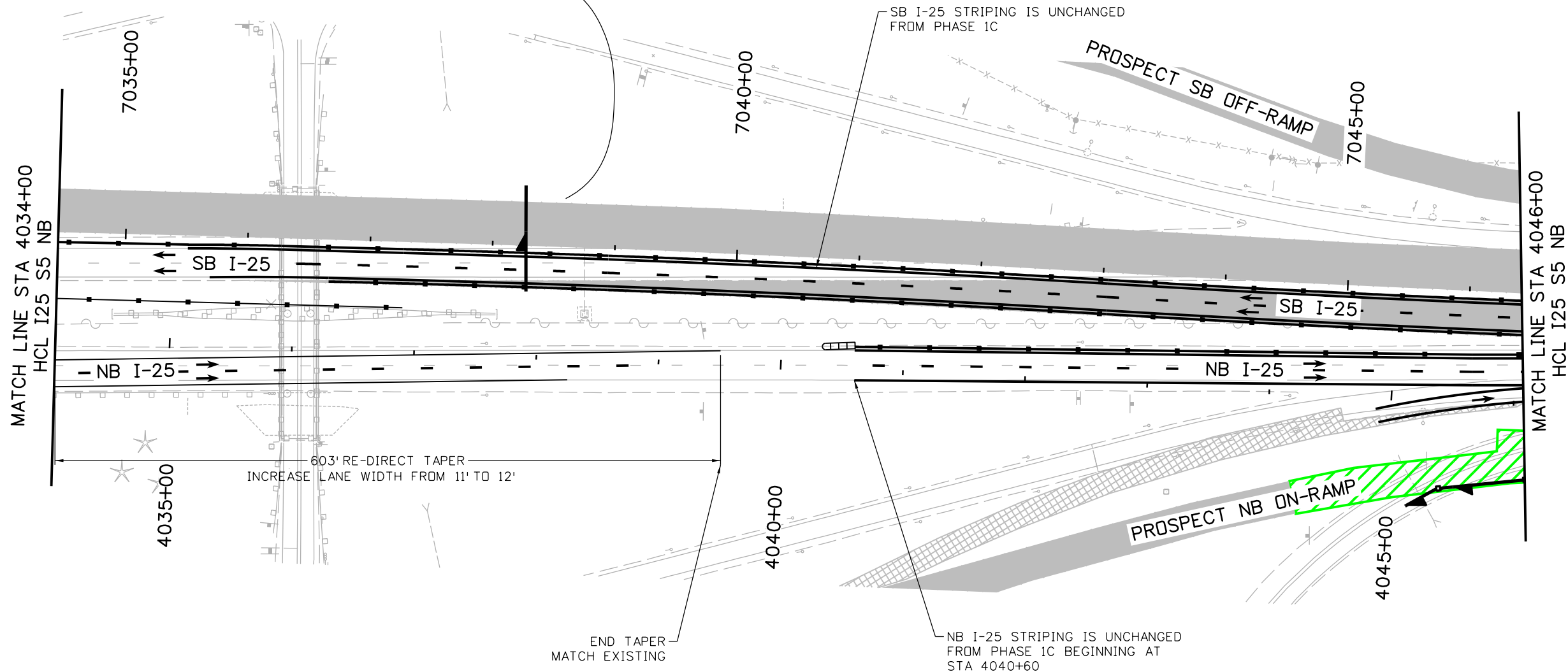
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IM 0253-255

21506

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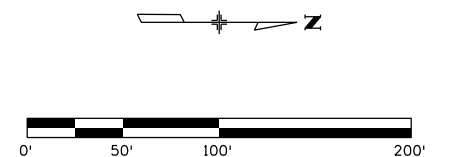


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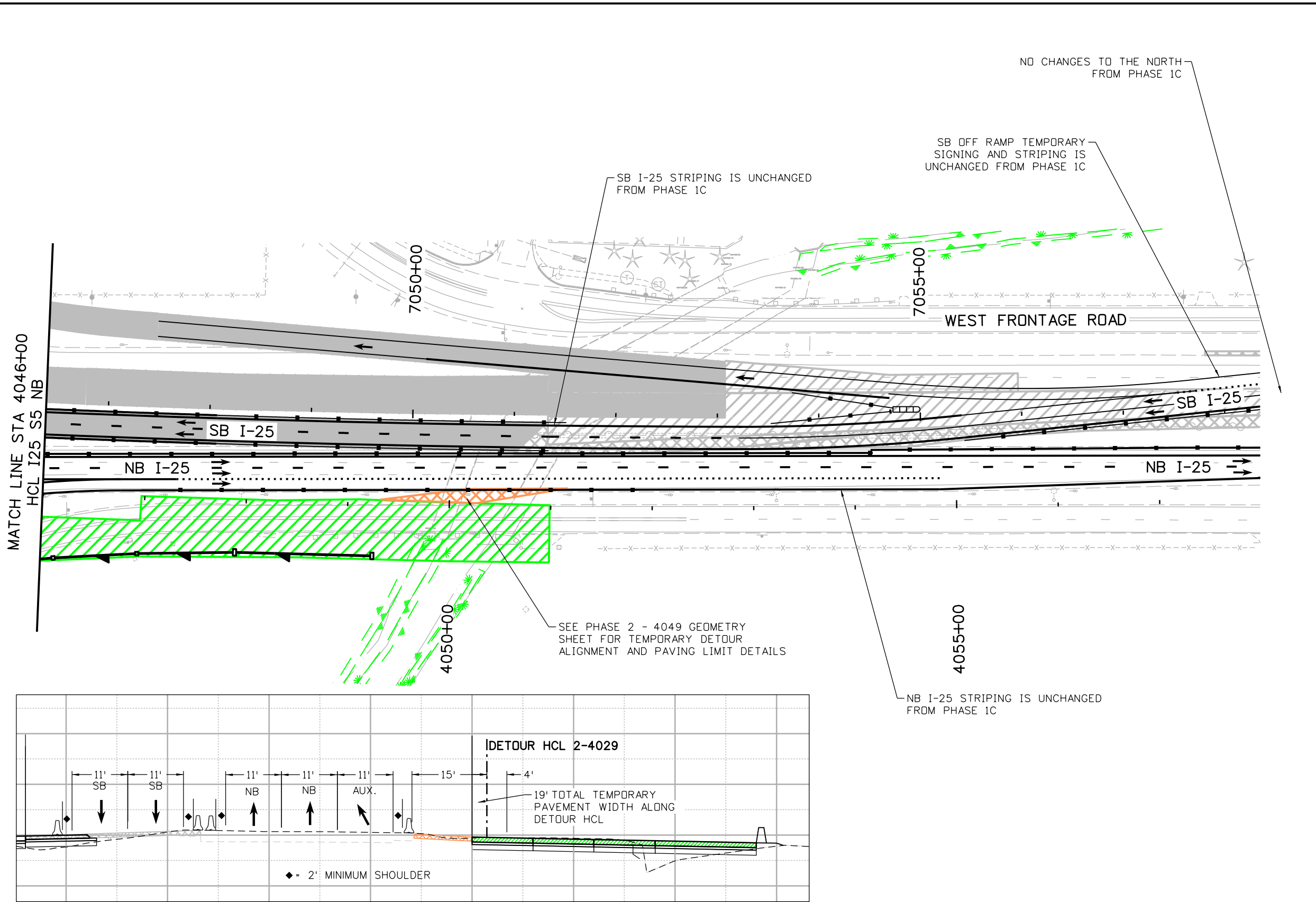
LEGEND:

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KEY MAP

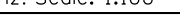
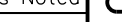
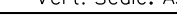
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GWRR
CACHE LA POUDRE RIVER

NOTES:
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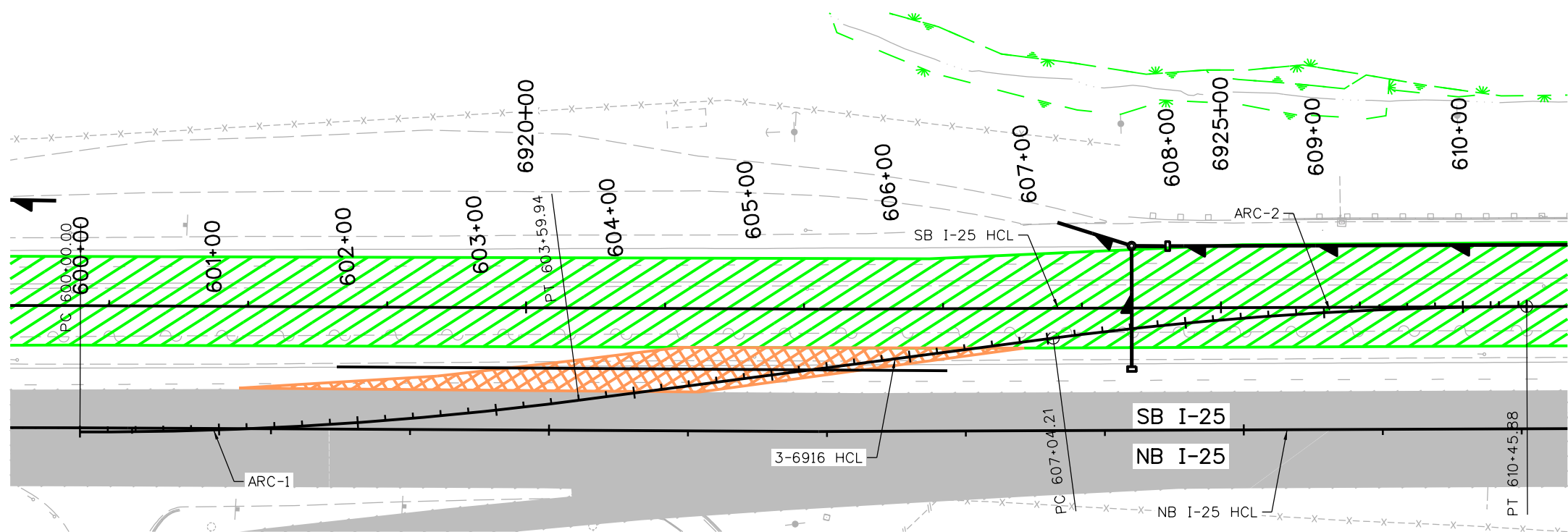
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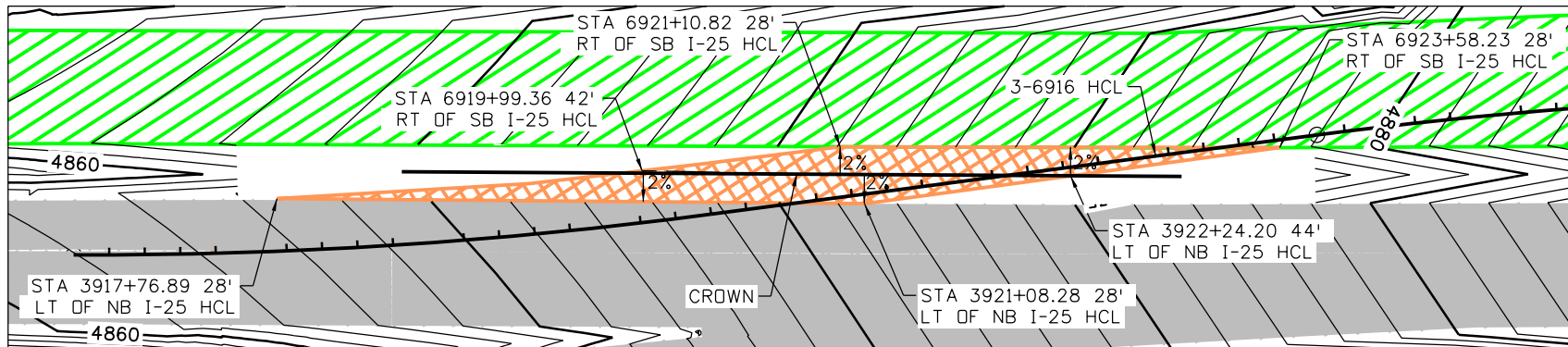
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Print Date: 10/15/2020			Sheet Revisions			 Colorado Department of Transportation 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 2 PLAN MAINTENANCE OF TRAFFIC PLAN				Project No./Code	
File Name: 21506DES_MDT_Phasing_2_SHT 12 to 17-S5M.dgn			Date:	Comments	Init.		No Revisions:		IM 0253-255					
Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:		Designer: D. Woolfall		21506			
  a joint venture							Void:		Detailer: A. Mahmood		Sheet Number			
							Sheet Subset: MDT		Subset Sheets: 38 of 73		457			

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PHASE 3 - 6916 CROSSOVER DETAIL

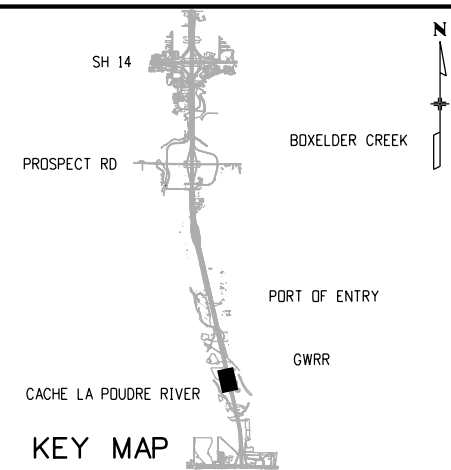


PHASE 3 - 6916 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northng	Eastng	Radlus	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	600+00.00	289640.51	187883.15						
Arc-1	PI	601+80.24	289816.45	187844.04	2700.00	359.94	7°38'17"	Left	-2.00%	65 MPH
Tangent	PT	603+59.94	289985.63	187781.90						
Tangent	PC	607+04.21	290308.80	187663.20						
Arc-2	PI	608+75.28	290469.37	187604.22	2700.00	341.67	7°15'02"	Right	-2.00%	65 MPH
Arc-2	PT	610+45.88	290636.10	187565.97						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE



NOTES:

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File Name: 21506DES_MOT_Geometry-S5M.dgn
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Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 3 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure Numbers

Subset Sheets: 39 of 73

Project No./Code

IM 0253-255

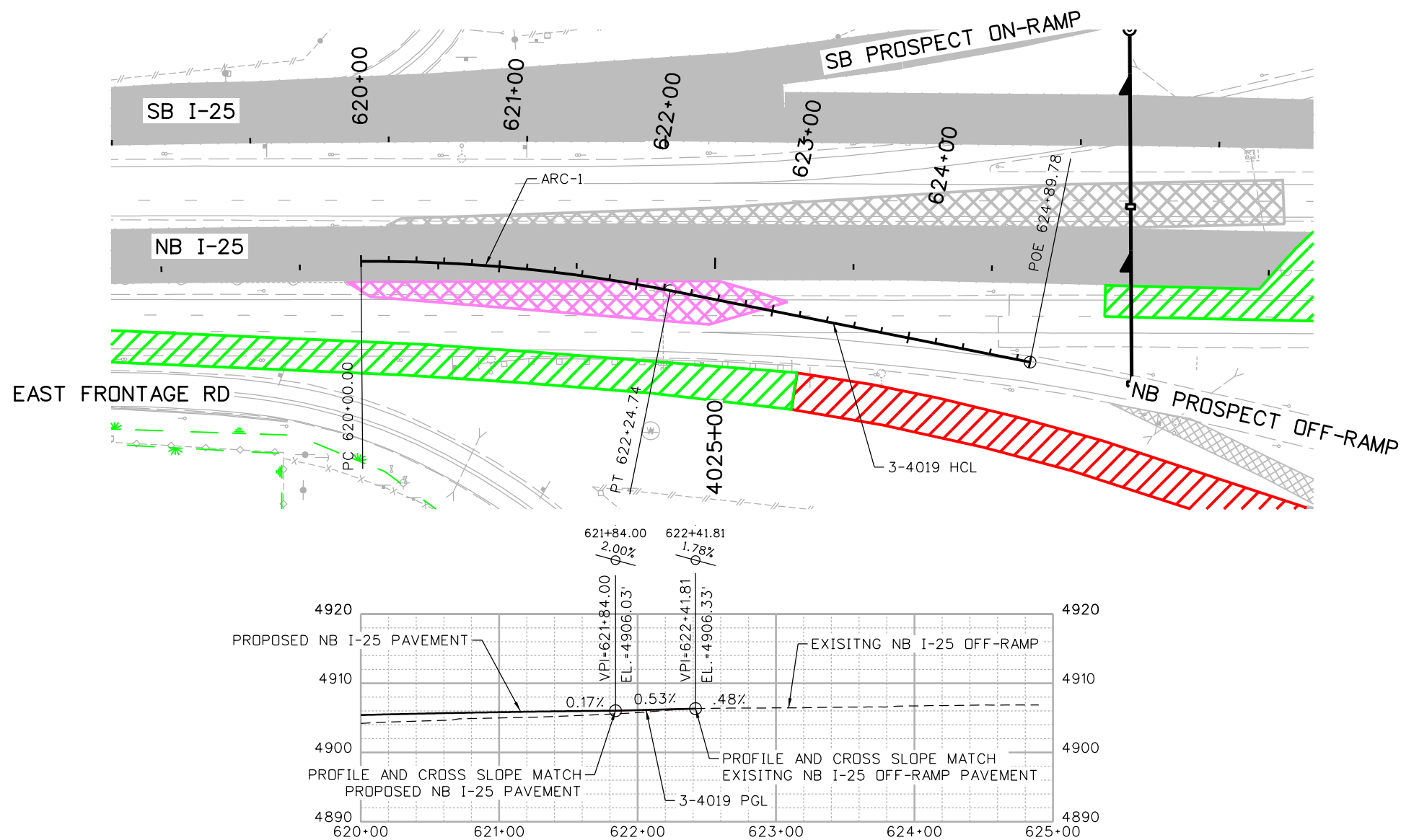
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Sheet Number

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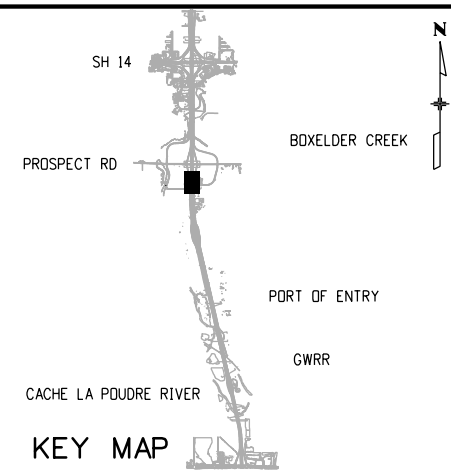


PHASE 3 - 4019 HORIZONTAL ELEMENTS TABLE REPORT

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	e	MDS
Arc-1	PC	620+00.00	299988.60	185786.21						
Arc-1	PI	621+12.76	300101.36	185785.01	1100.00	224.74	11°42'21.32"	Right	2.00%	50 MPH
Tangent	PT	622+24.74	300212.01	185806.71						
Tangent	POE	624+89.78	300472.10	185857.73						

NOTES:

1. NEGATIVE e VALUE SIGNIFIES ADVERSE CROSS-SLOPE
2. * DENOTES e VALUE MATCHES EXISTING CROSS-SLOPE

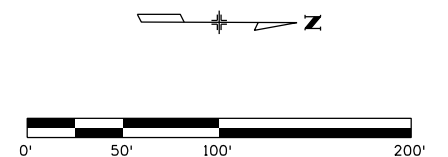


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Void:

NORTH I-25 EXPRESS LANES
PHASE 3 GEOMETRY
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 40 of 73

Project No./Code

IM 0253-255

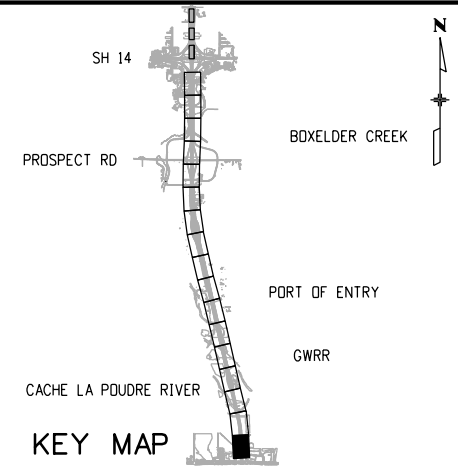
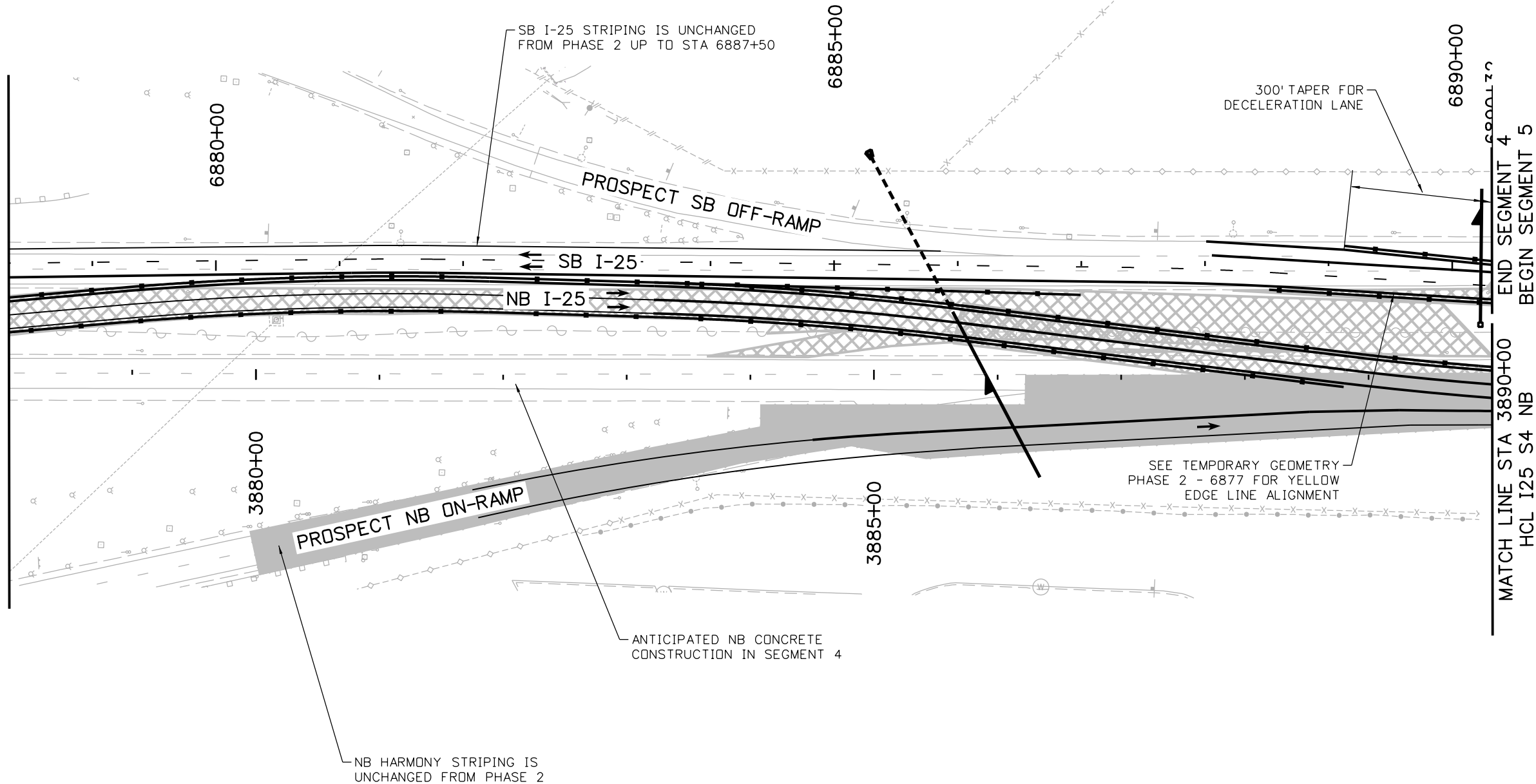
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Sheet Number 459

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**NORTH I-25 EXPRESS LANES
PHASE 3 PLAN
MAINTENANCE OF TRAFFIC PLAN**

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 41 of 73

Project No./Code

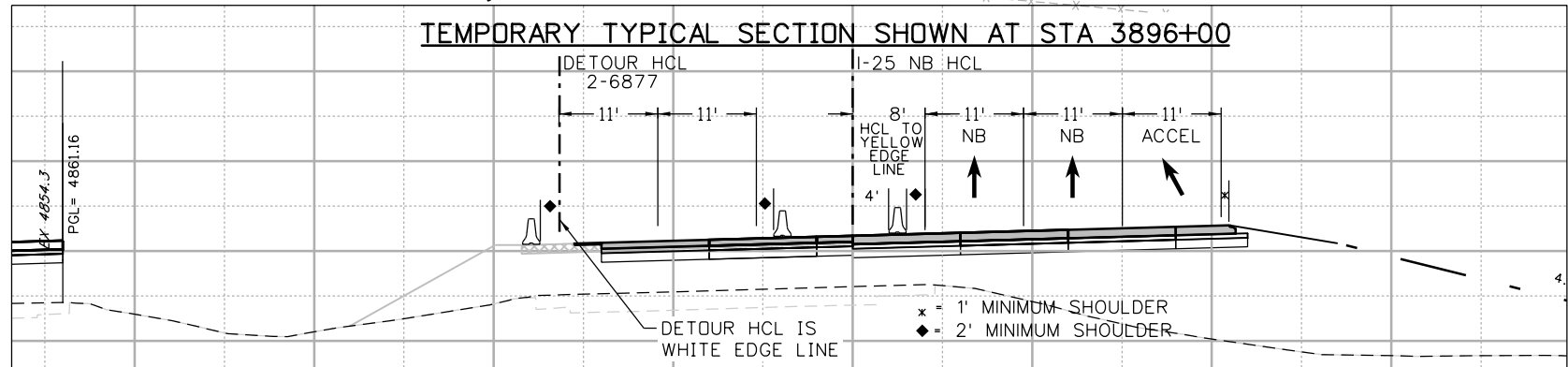
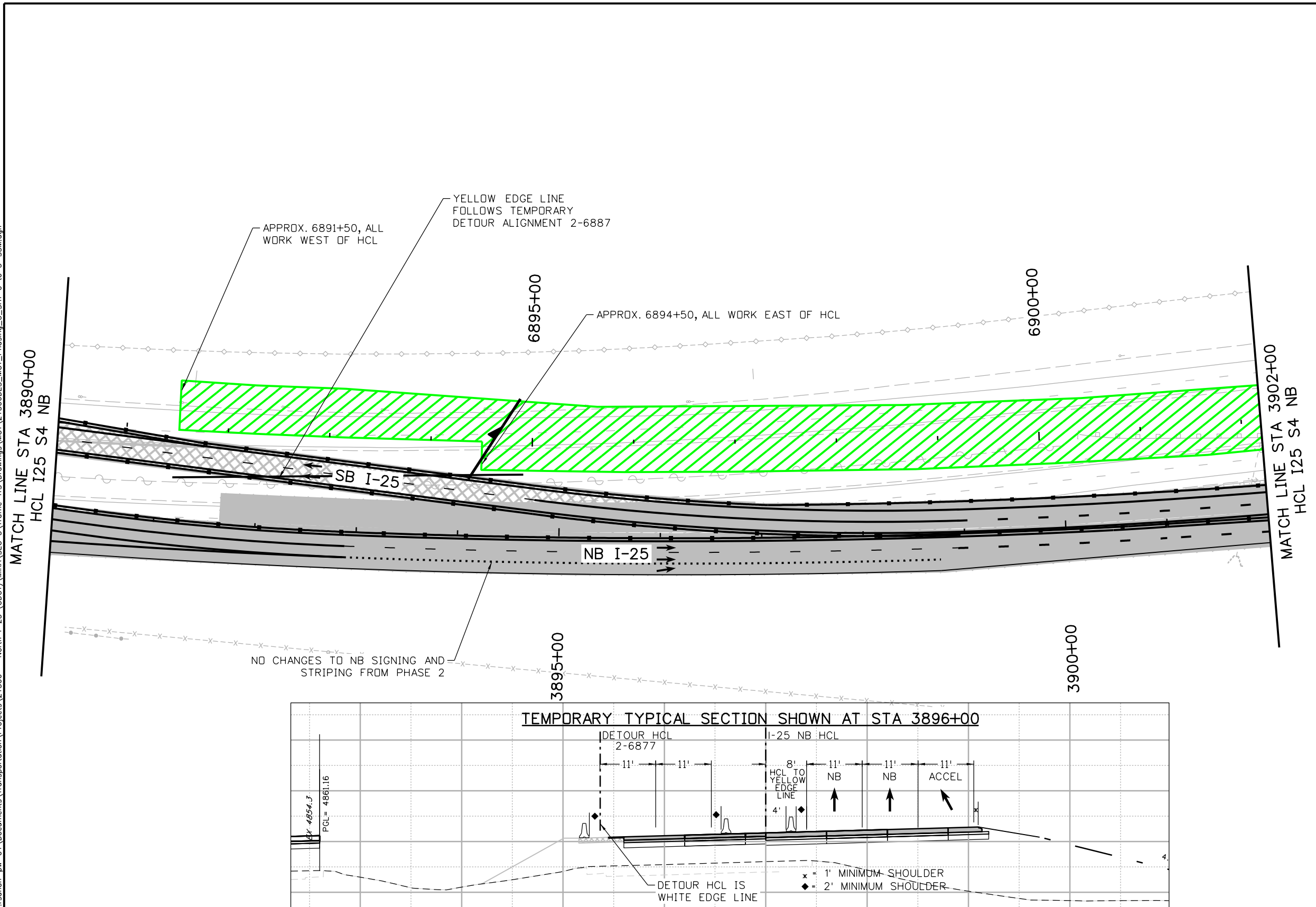
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21506

Sheet
Number 460

Segment 5M - RFC - CDOT - 10.19.2020

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KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

Print Date: 10/15/2020

File Name: 21506DES_MOT_Phasing_3_SHT 0 to 5-S5M.dgn

Horiz. Scale: 1:100 Vert. Scale: As Noted

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed
No Revisions:
Revised:
Void:

**NORTH I-25 EXPRESS LANES
PHASE 3 PLAN
MAINTENANCE OF TRAFFIC PLAN**

Designer: D. Woolfall

Detailer: A. Mahmood

Sheet Subset: MOT

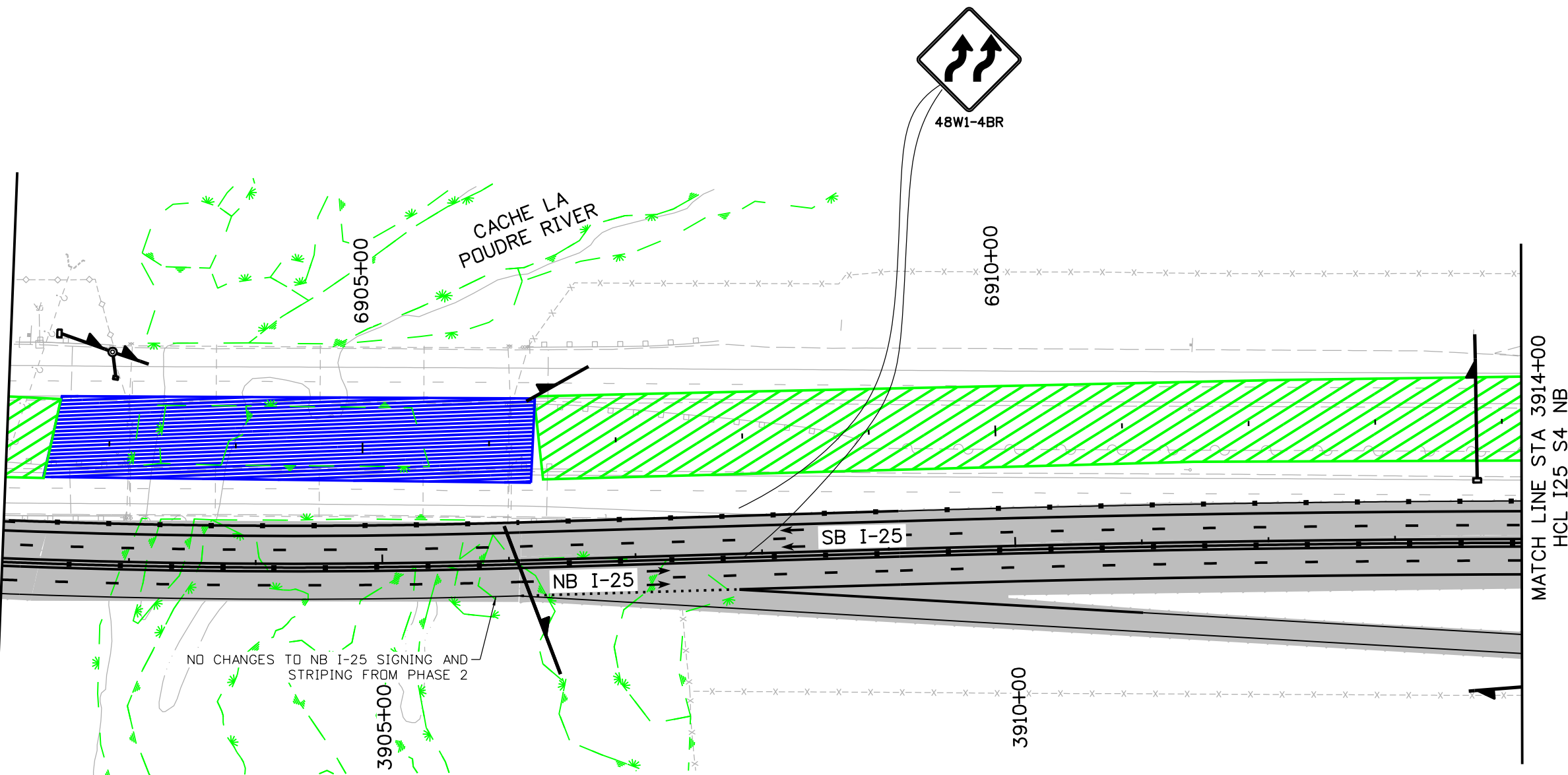
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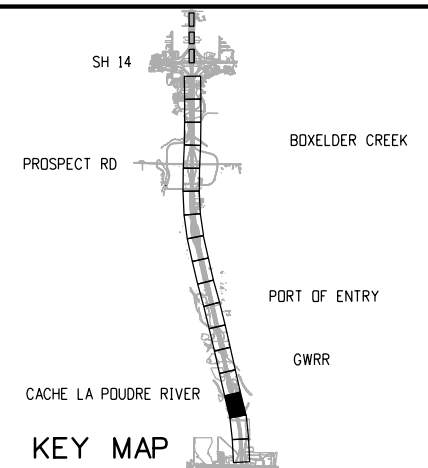
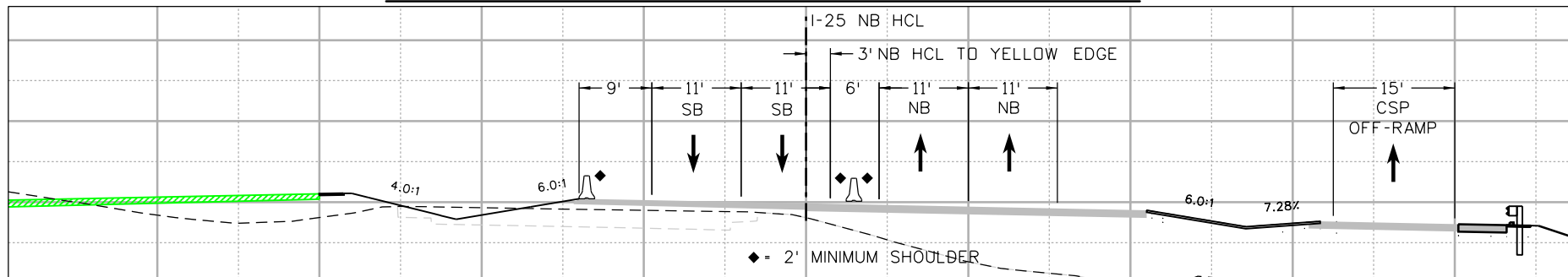
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MATCH LINE STA 3902+00
HCL I25 S4 NB



TEMP TYPICAL DETOUR SECTION SHOWN AT STA 3912+00

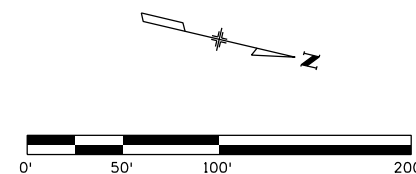


NOTES:

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- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS



Print Date: 10/15/2020
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Sheet Revisions

Date:	Comments	Init.

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Region 4

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CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 3 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 43 of 73

Project No./Code

IM 0253-255

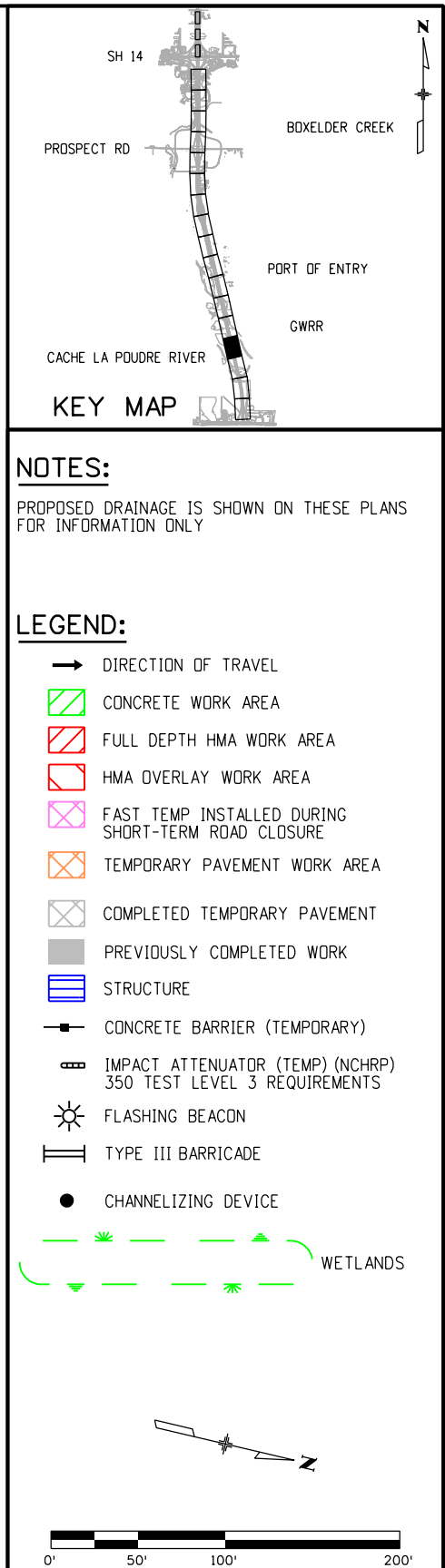
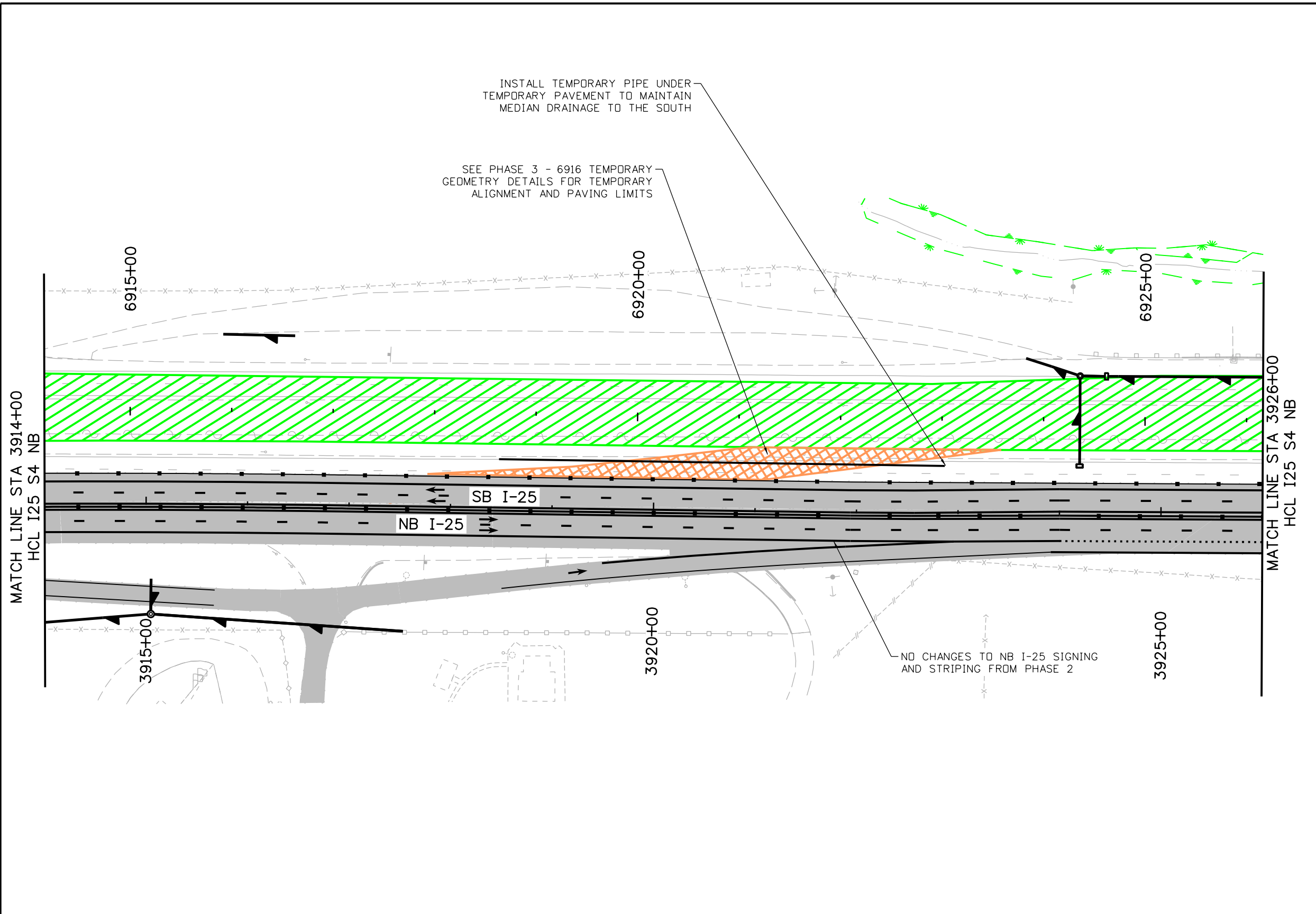
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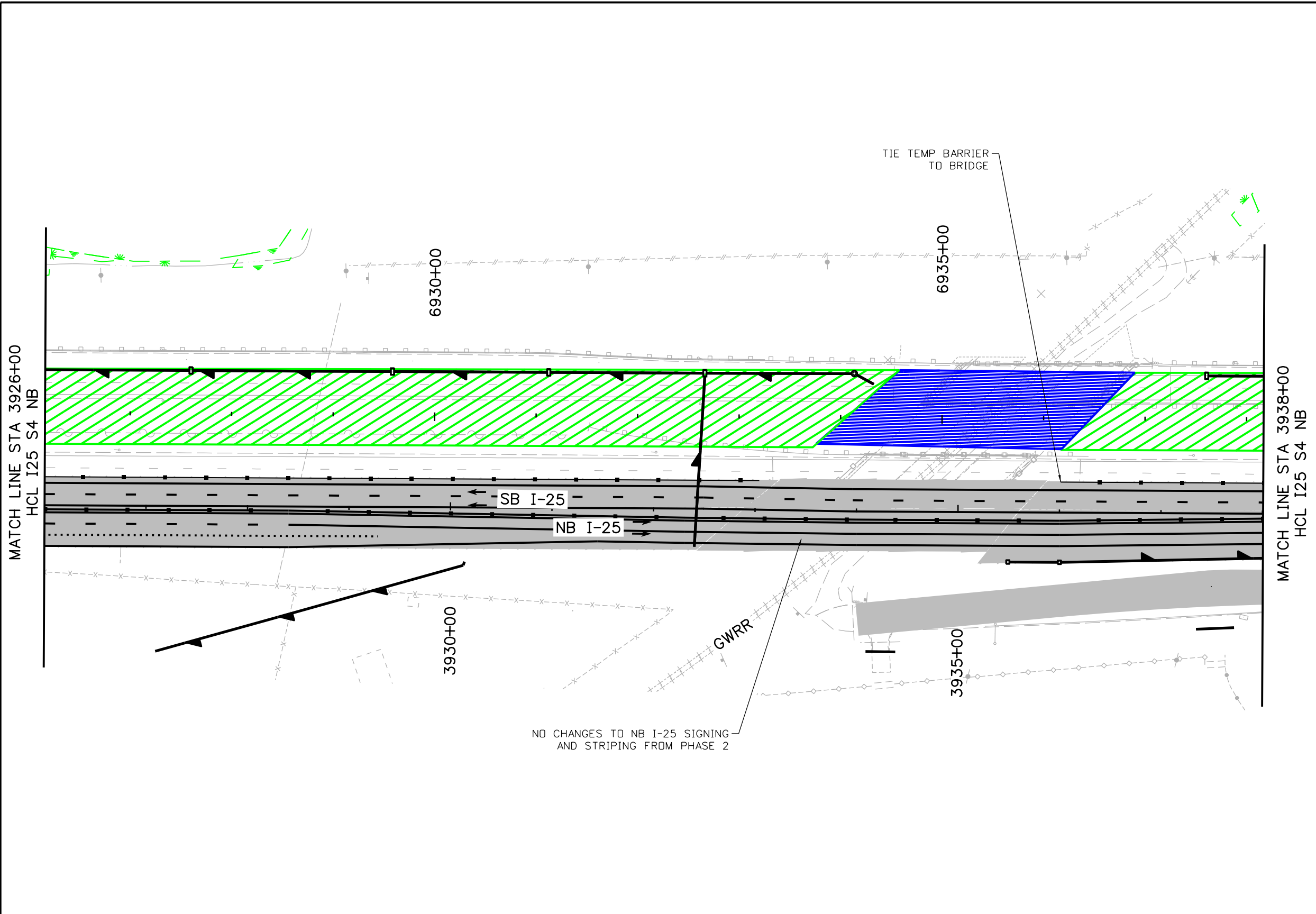
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RS&H KRAEMER a joint venture			Void:		Sheet Subset: MOT Subset Sheets: 44 of 73		Sheet Number 463						

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KEY MAP

SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
CACHE LA POUDRE RIVER
GWRR

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

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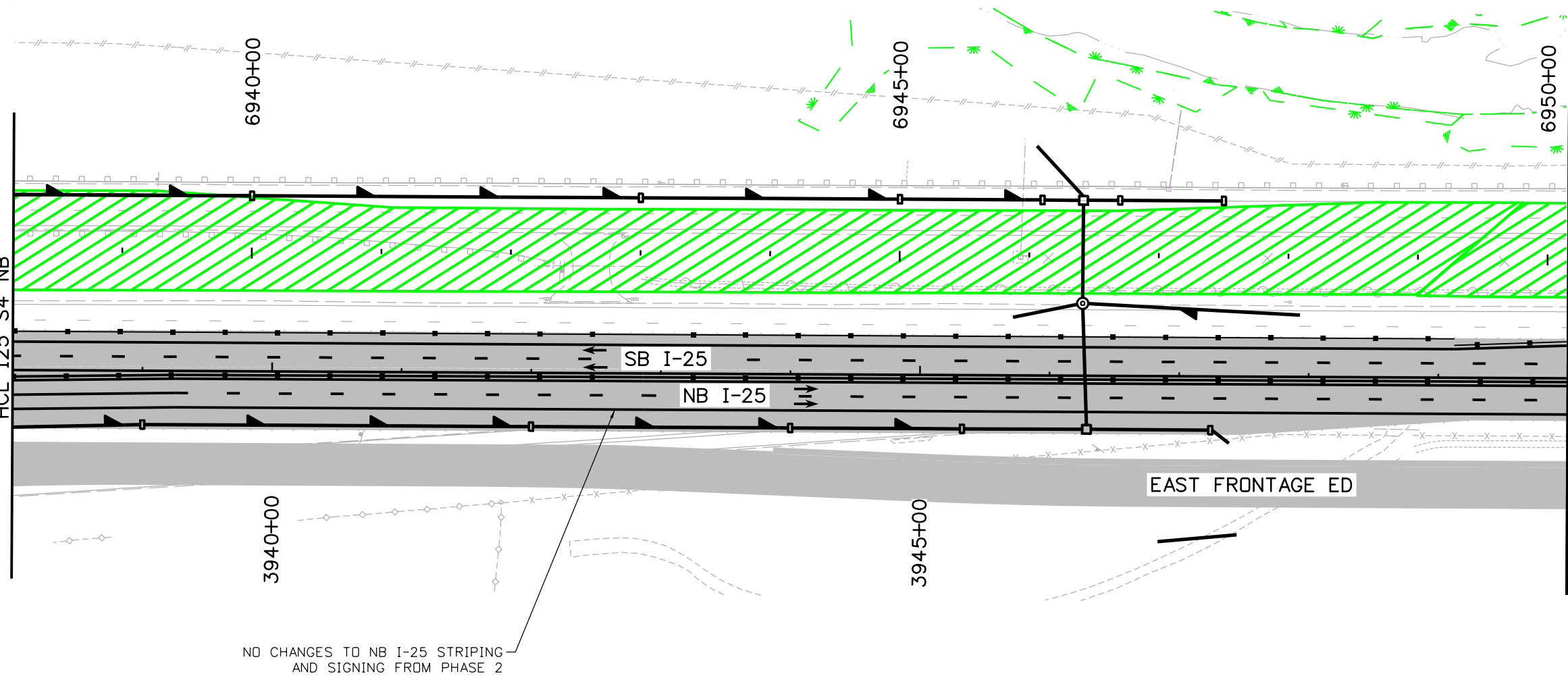
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- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

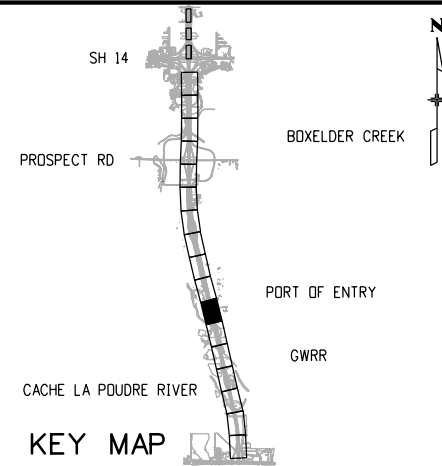
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MATCH LINE STA 3938+00
HCL I25 S4 NB

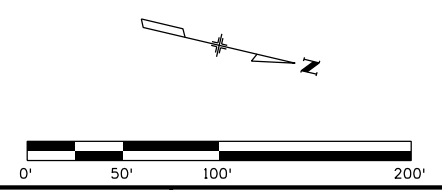


MATCH LINE STA 3950+00
HCL I25 S5 NB



NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

- LEGEND:**
- DIRECTION OF TRAVEL
 - CONCRETE WORK AREA
 - FULL DEPTH HMA WORK AREA
 - HMA OVERLAY WORK AREA
 - FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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 - FLASHING BEACON
 - TYPE III BARRICADE
 - CHANNELIZING DEVICE
 - WETLANDS



Print Date: 10/15/2020
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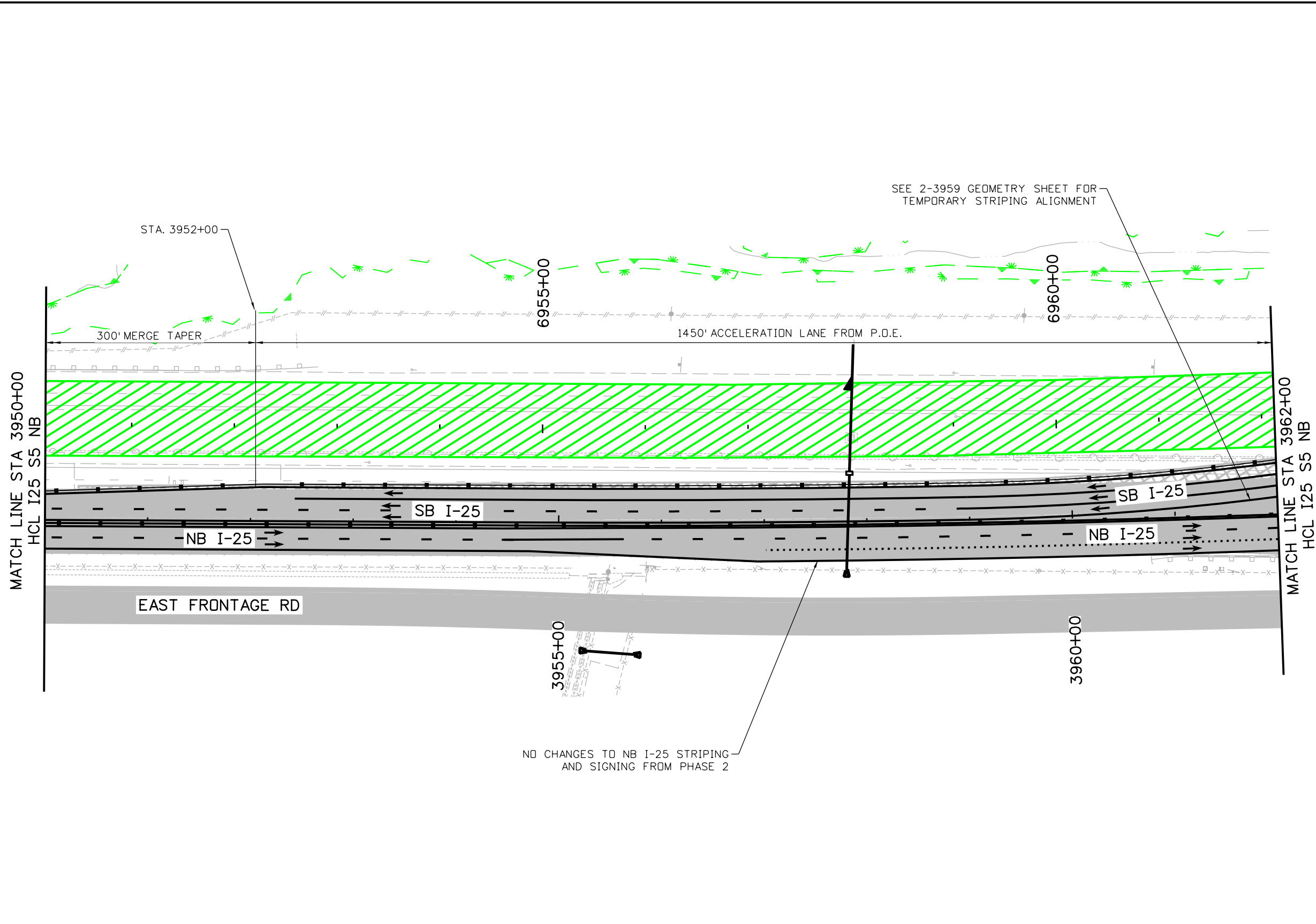
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Date:	Comments	Init.



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Region 4 CJS

As Constructed		NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
No Revisions:		Designer: D. Woolfall	Structure Numbers		IM 0253-255	
Revised:		Detailer: A. Mahmood			21506	
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SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
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- TYPE III BARRICADE
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- WETLANDS

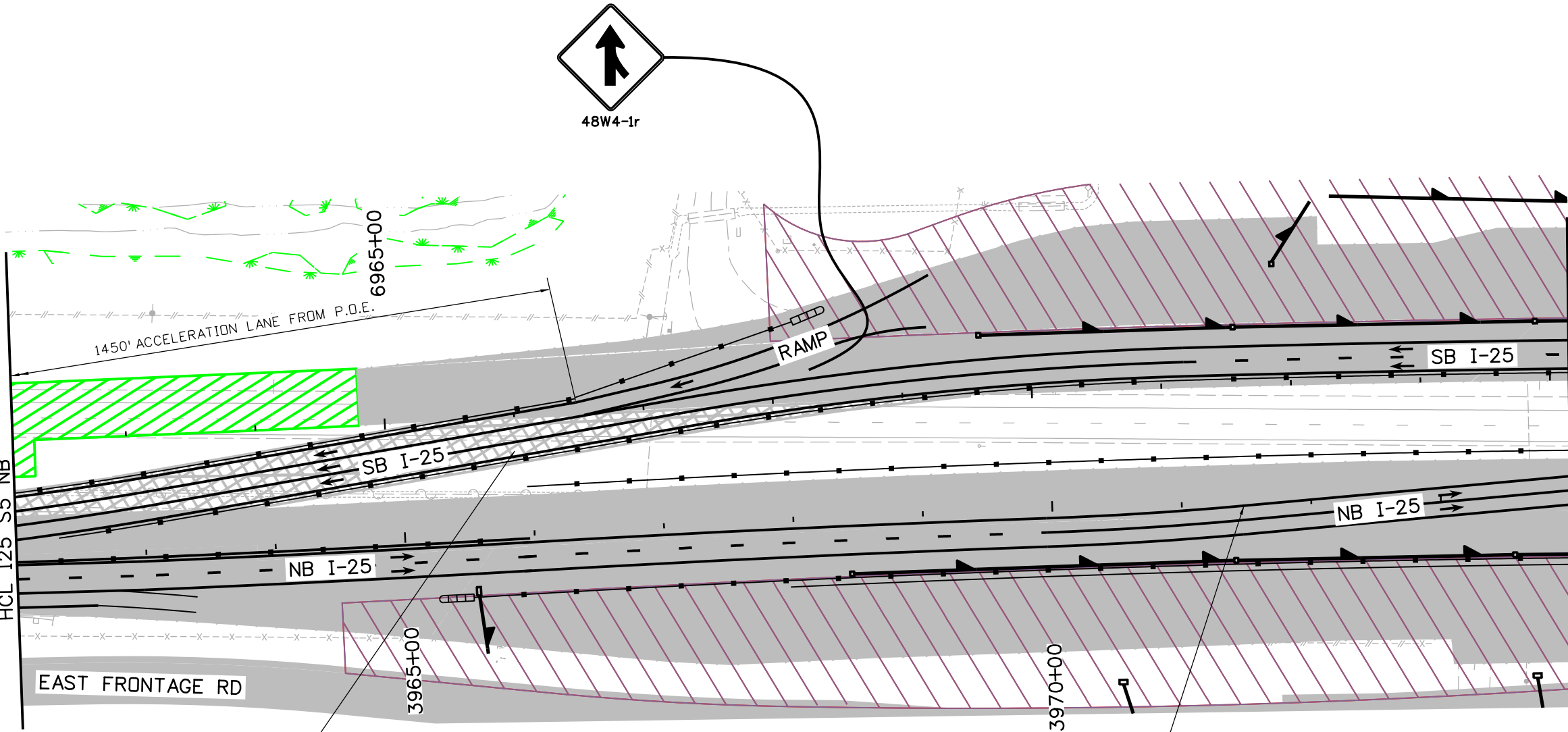
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Print Date: 10/15/2020			Sheet Revisions			CDOT CO Colorado Department of Transportation 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
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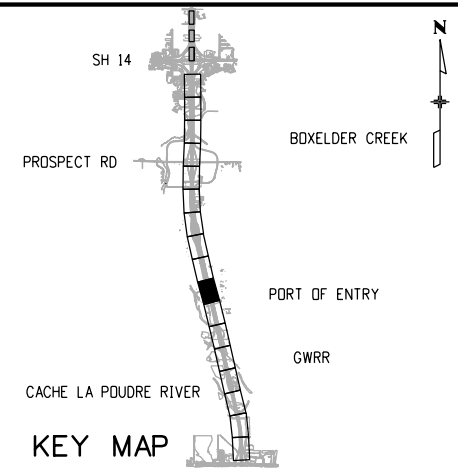
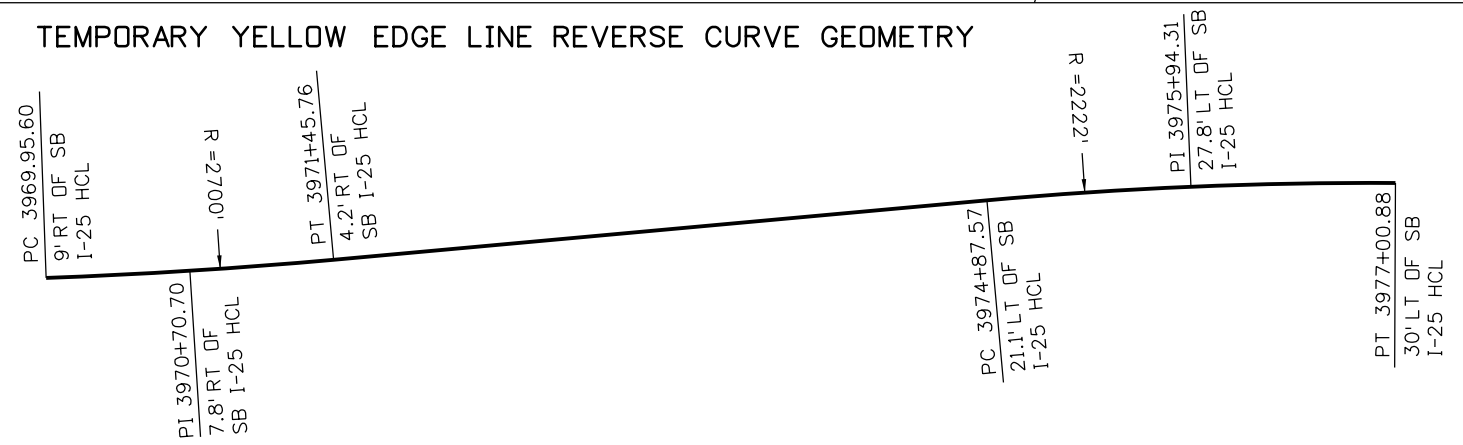
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MATCH LINE STA 3962+00
HCL 125 S5 NB



SEE 2-3959 GEOMETRY SHEET FOR
TEMPORARY STRIPING ALIGNMENT

TEMPORARY YELLOW EDGE LINE REVERSE CURVE GEOMETRY

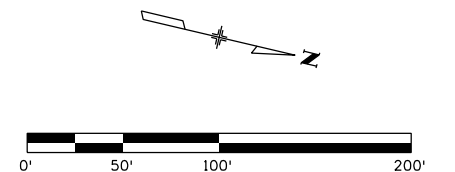


NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS
FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
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- WETLANDS
- NOT FOR CONSTRUCTION



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Region 4

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CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 48 of 73

Project No./Code

IM 0253-255

21506

Sheet
Number 467

Segment 5M - RFC - CDOT - 10.19.2020

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Horiz. Scale: 1:100 Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

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Region 4

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CJS

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 49 of 73

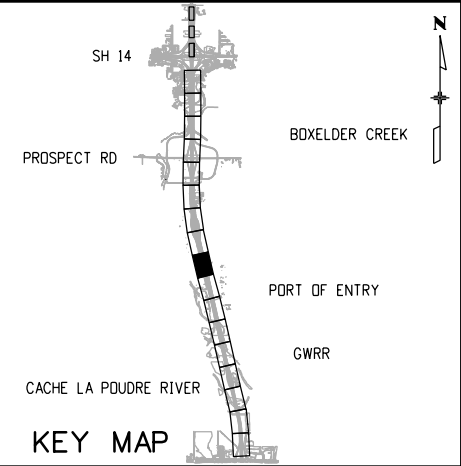
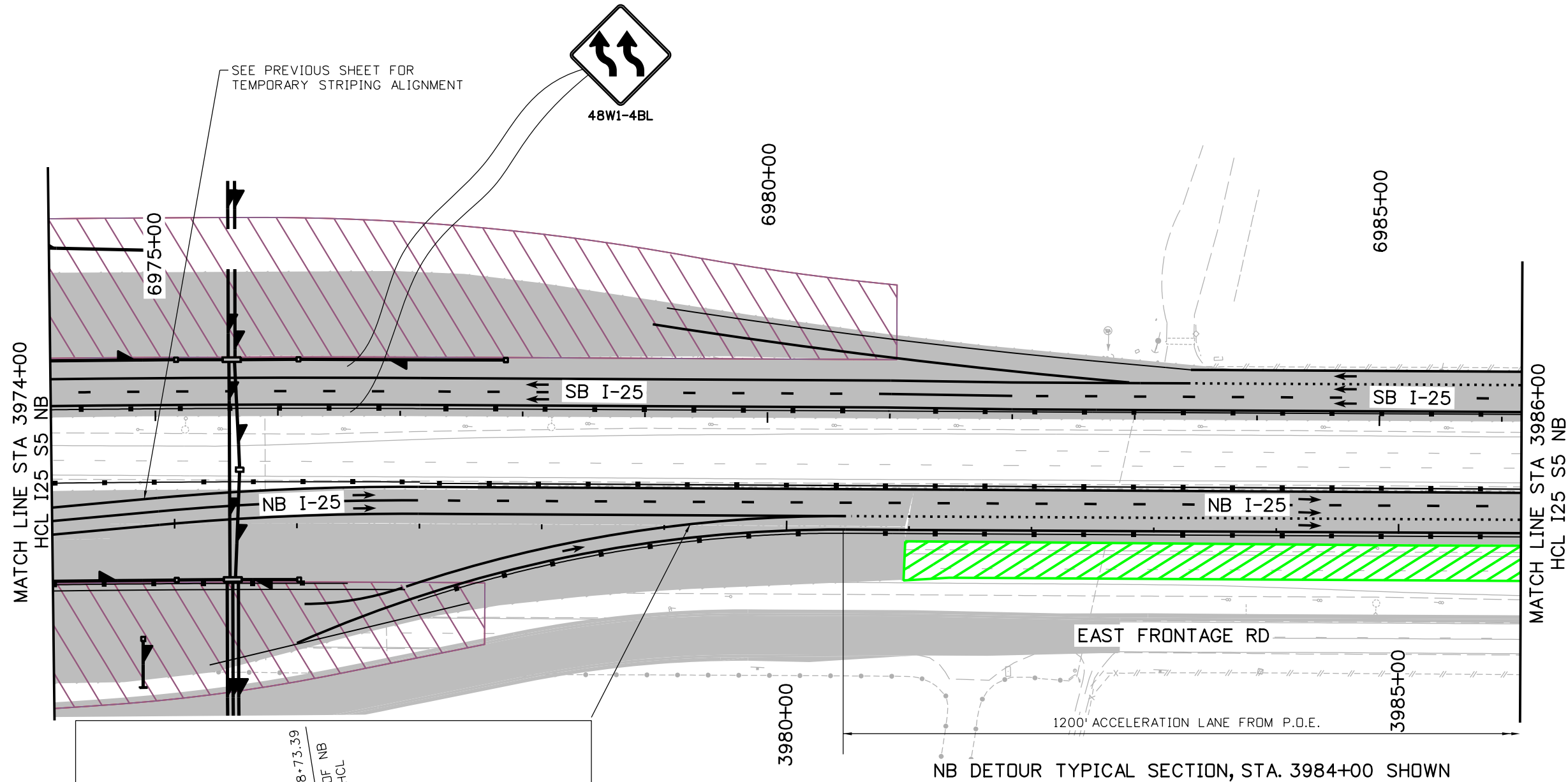
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NOTES:

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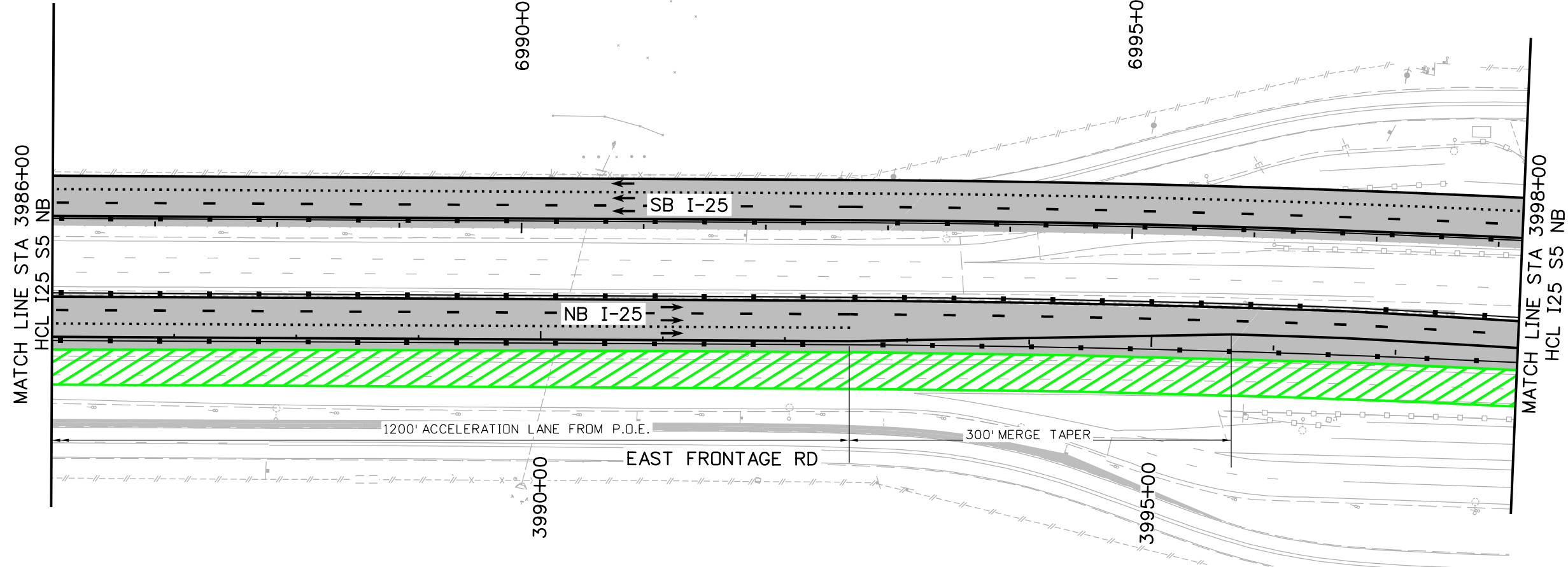
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- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS
- NOT FOR CONSTRUCTION

0' 50' 100' 200'

Segment 5M - RFC - CDOT - 10.19.2020

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SH 14

PROSPECT RD

CACHE LA POUDRE RIVER

BOXELDER CREEK

PORT OF ENTRY

GWRR

KEY MAP

NOTES:

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0' 50' 100' 200'

Print Date: 10/15/2020
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Date:	Comments	Init.

Colorado Department of Transportation



Region 4

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Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 3 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 50 of 73

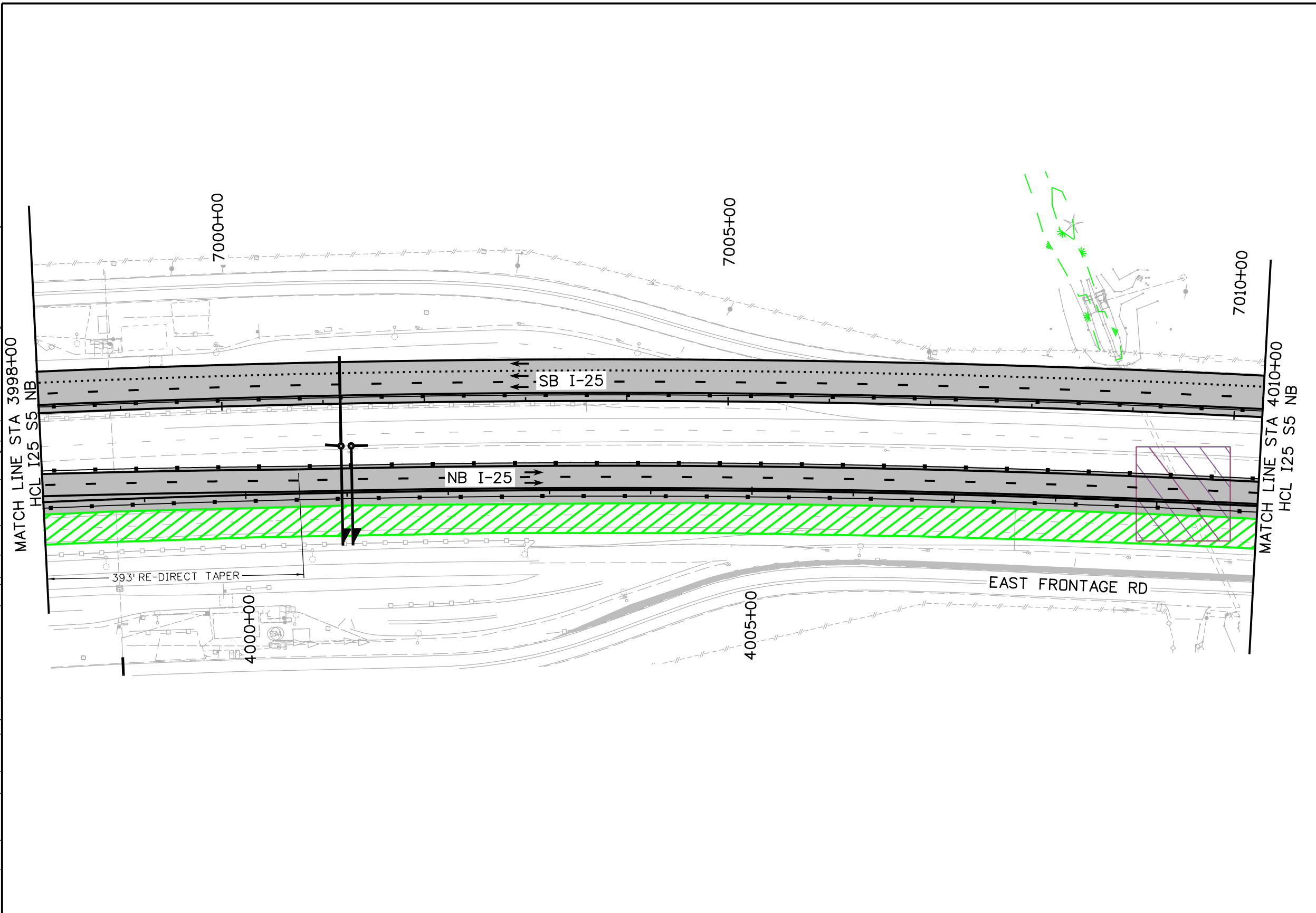
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21506

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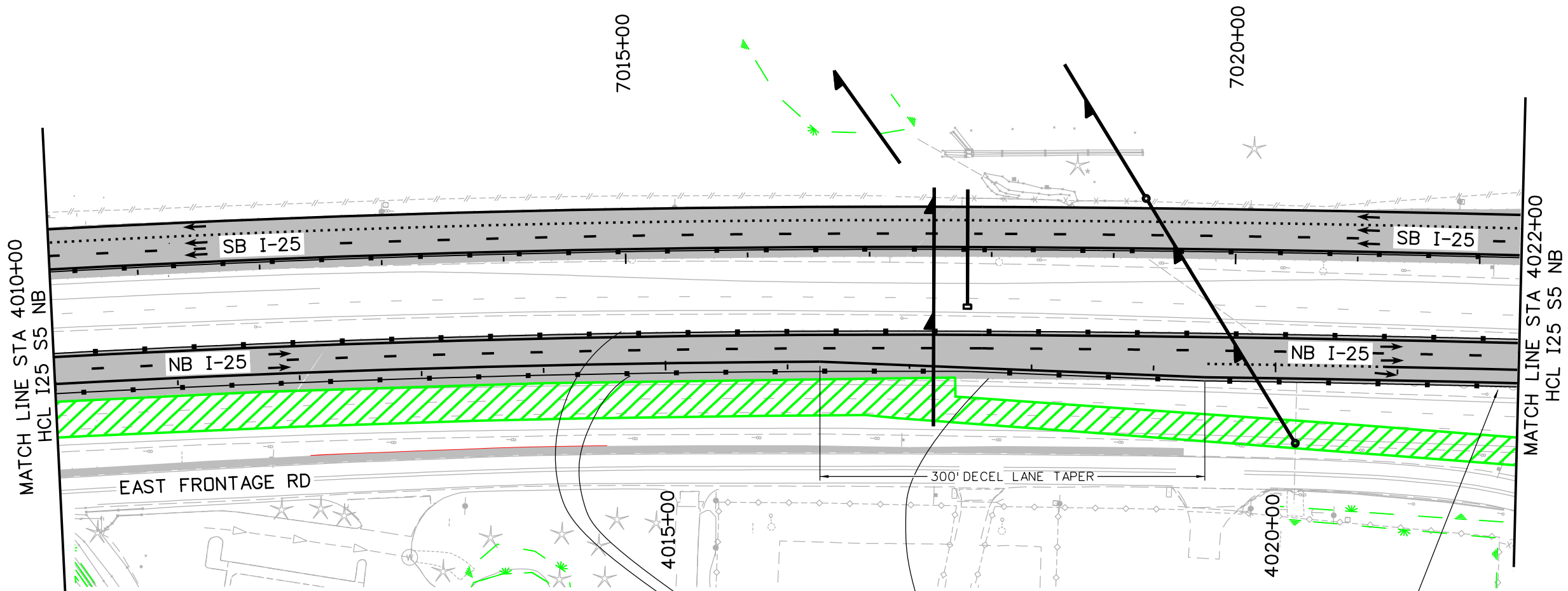
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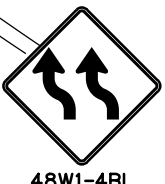
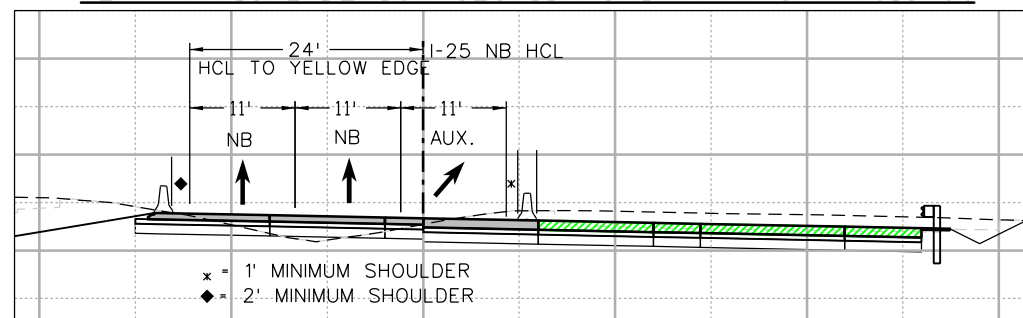
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Print Date: 10/15/2020			Sheet Revisions			CDOT CO 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
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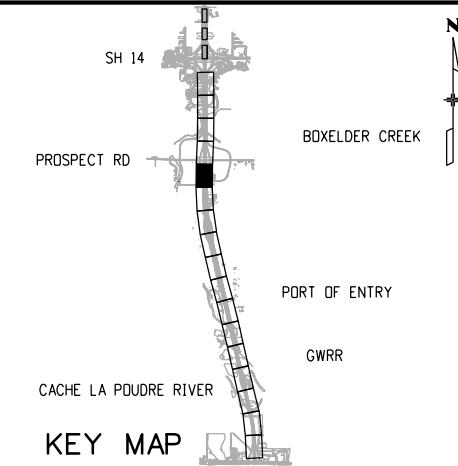
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TEMP TYPICAL DETOUR SECTION SHOWN AT STA 4018+00

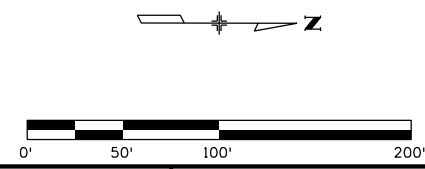


MOVE EXISTING GUIDE SIGNS TO TEMPORARY POSTS IN THIS LOCATION, OR PROVIDE TEMPORARY GROUND MOUNTED SIGN PANELS AT SAME LOCATION



NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

- LEGEND:**
- DIRECTION OF TRAVEL
 - CONCRETE WORK AREA
 - FULL DEPTH HMA WORK AREA
 - HMA OVERLAY WORK AREA
 - FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
 - TEMPORARY PAVEMENT WORK AREA
 - COMPLETED TEMPORARY PAVEMENT
 - PREVIOUSLY COMPLETED WORK
 - STRUCTURE
 - CONCRETE BARRIER (TEMPORARY)
 - IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
 - FLASHING BEACON
 - TYPE III BARRICADE
 - CHANNELIZING DEVICE
 - WETLANDS



Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_3_SHT 12 to 17-S5M.dgn
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RS&H **KRAEMER** **JB**
a joint venture

Sheet Revisions			
Date:	Comments	Init.	

Colorado Department of Transportation

CDOT

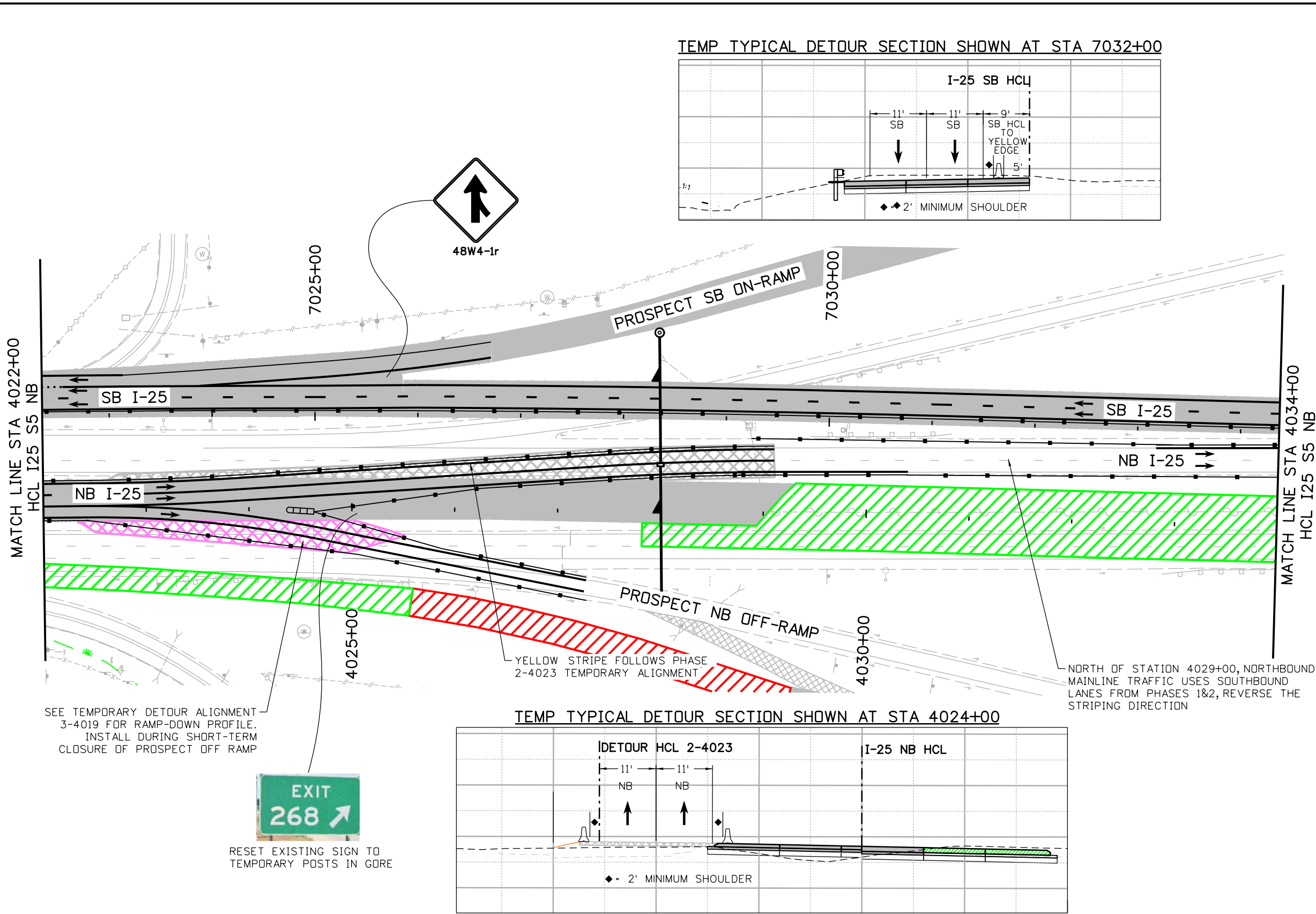
Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

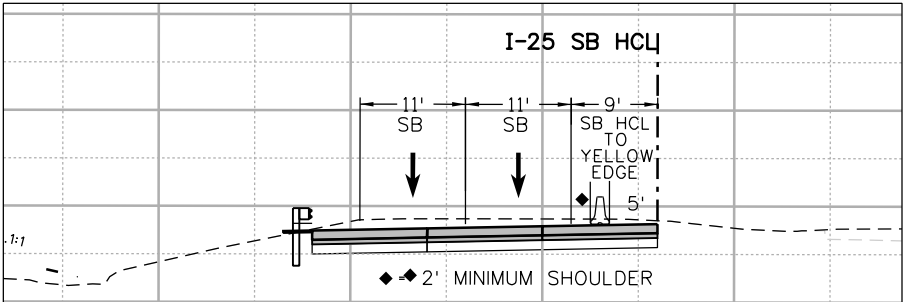
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As Constructed		NORTH I-25 EXPRESS LANES PHASE 3 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
No Revisions:		Designer: D. Woolfall			IM 0253-255	
Revised:		Detailer: A. Mahmood			21506	
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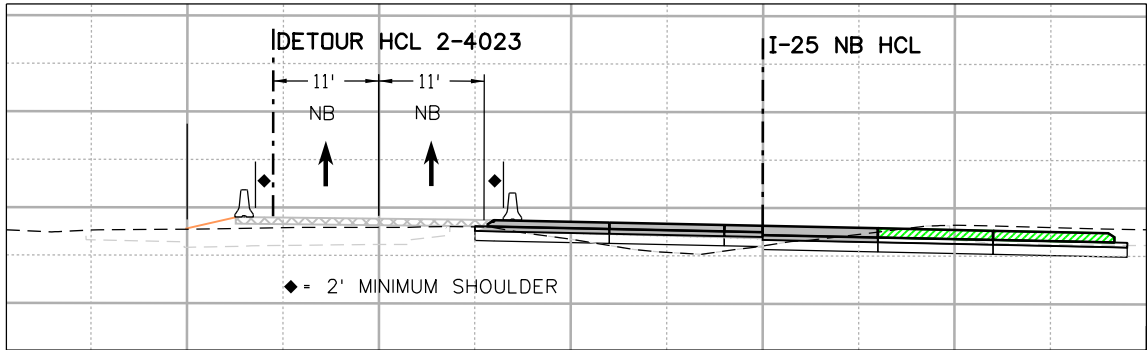
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TEMP TYPICAL DETOUR SECTION SHOWN AT STA 7032+00



TEMP TYPICAL DETOUR SECTION SHOWN AT STA 4024+00



SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_3_SHT 12 to 17-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

RS&H

KRAEMER
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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
PHASE 3 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 53 of 73

Project No./Code

IM 0253-255

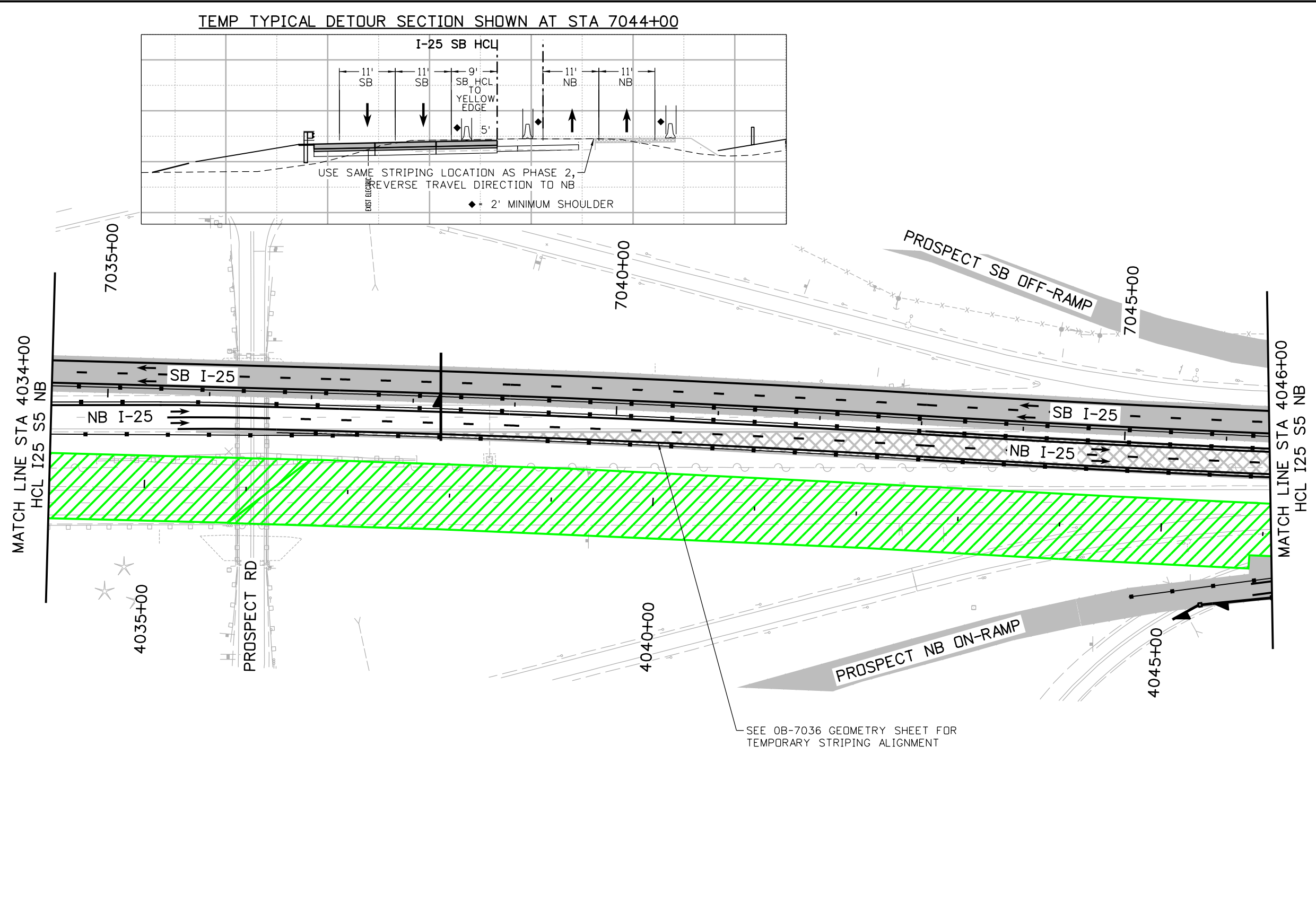
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Sheet
Number

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Segment 5M - RFC - CDOT - 10.19.2020

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SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

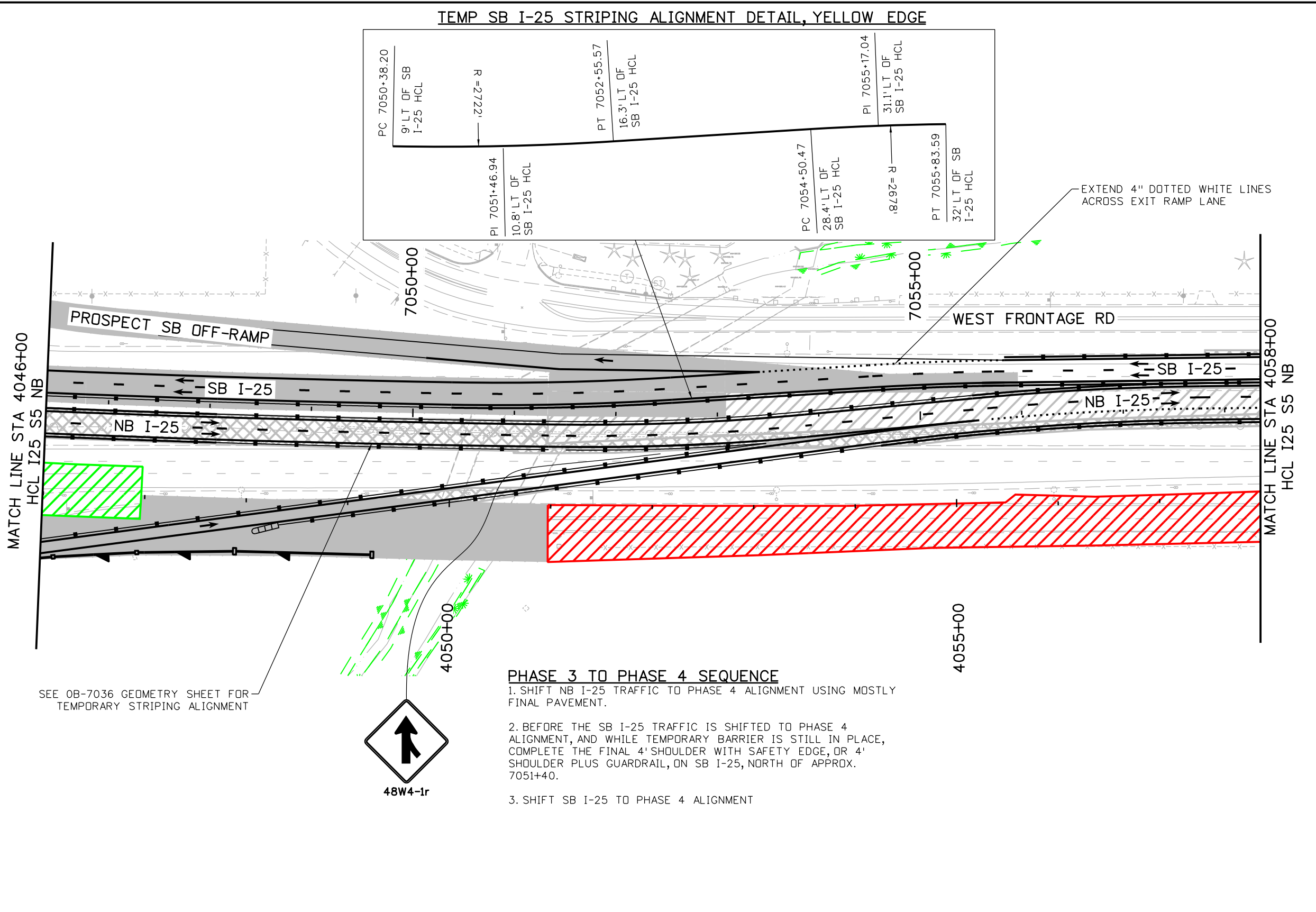
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- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

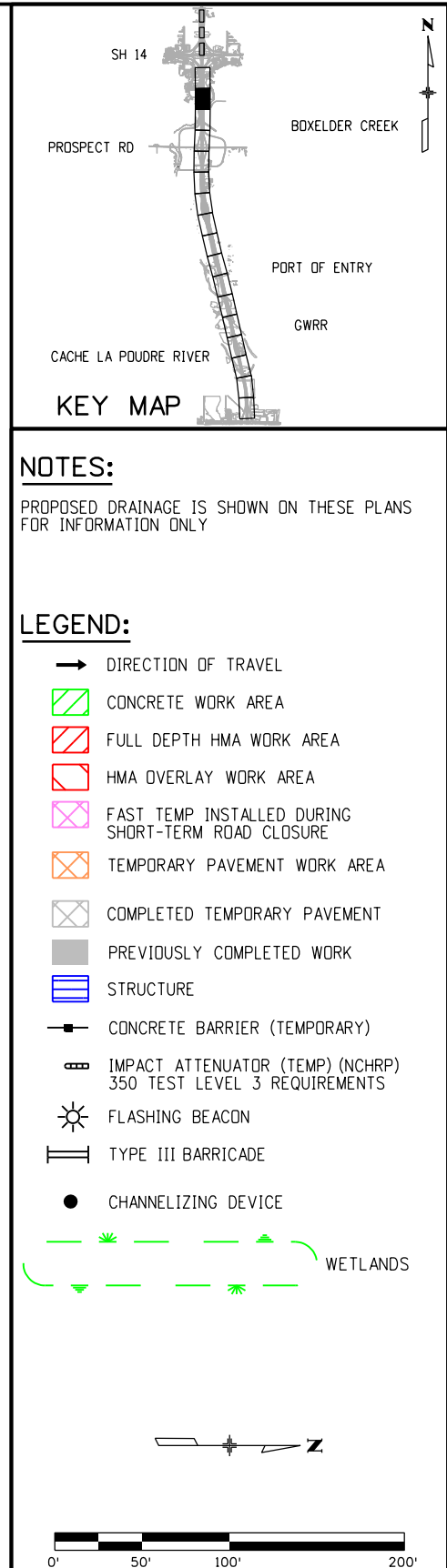
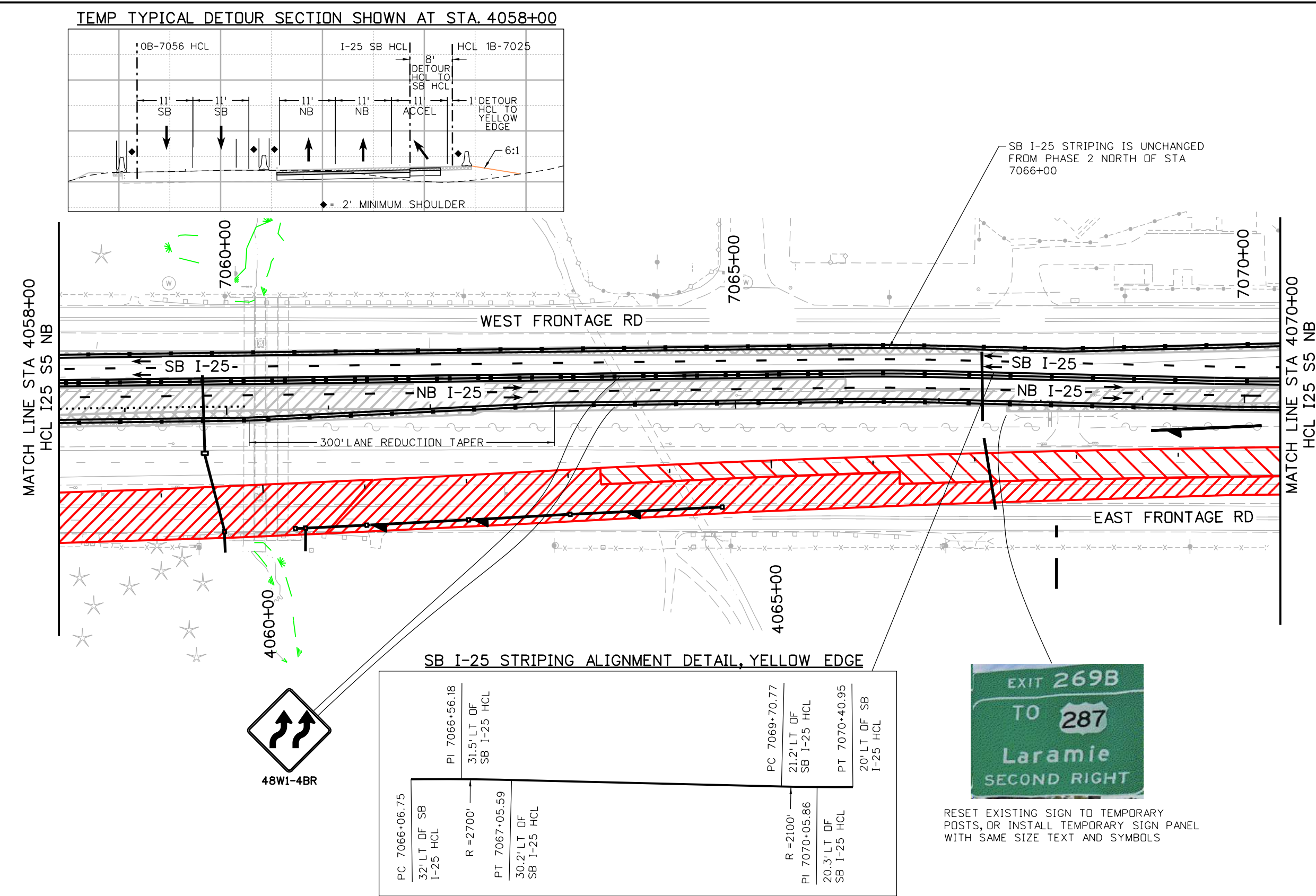
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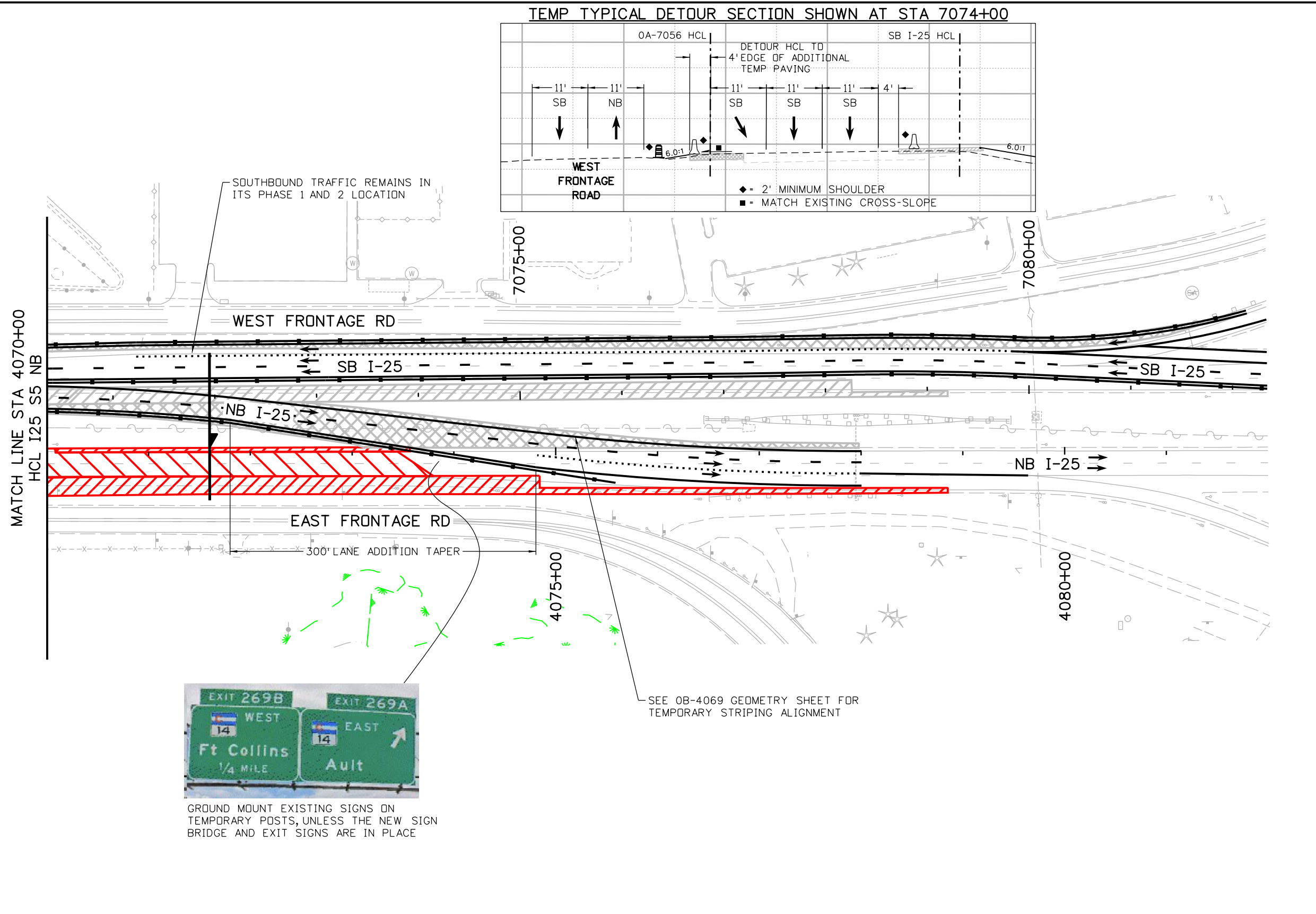
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RS&H		KRAEMER			Colorado Department of Transportation		Region 4			474	
							10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530				
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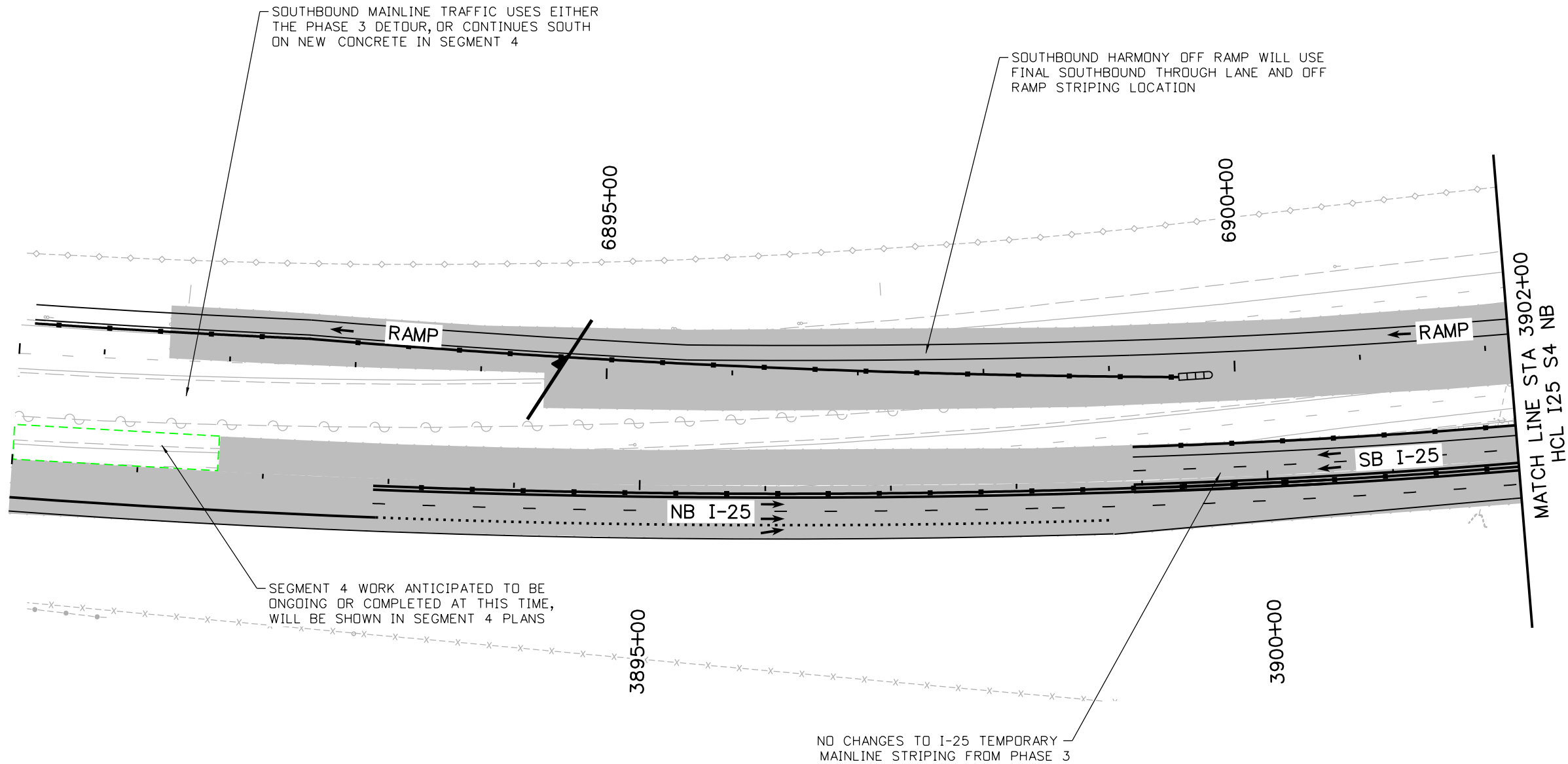
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SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

Print Date: 10/15/2020
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Sheet Revisions		
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Colorado Department of Transportation

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4

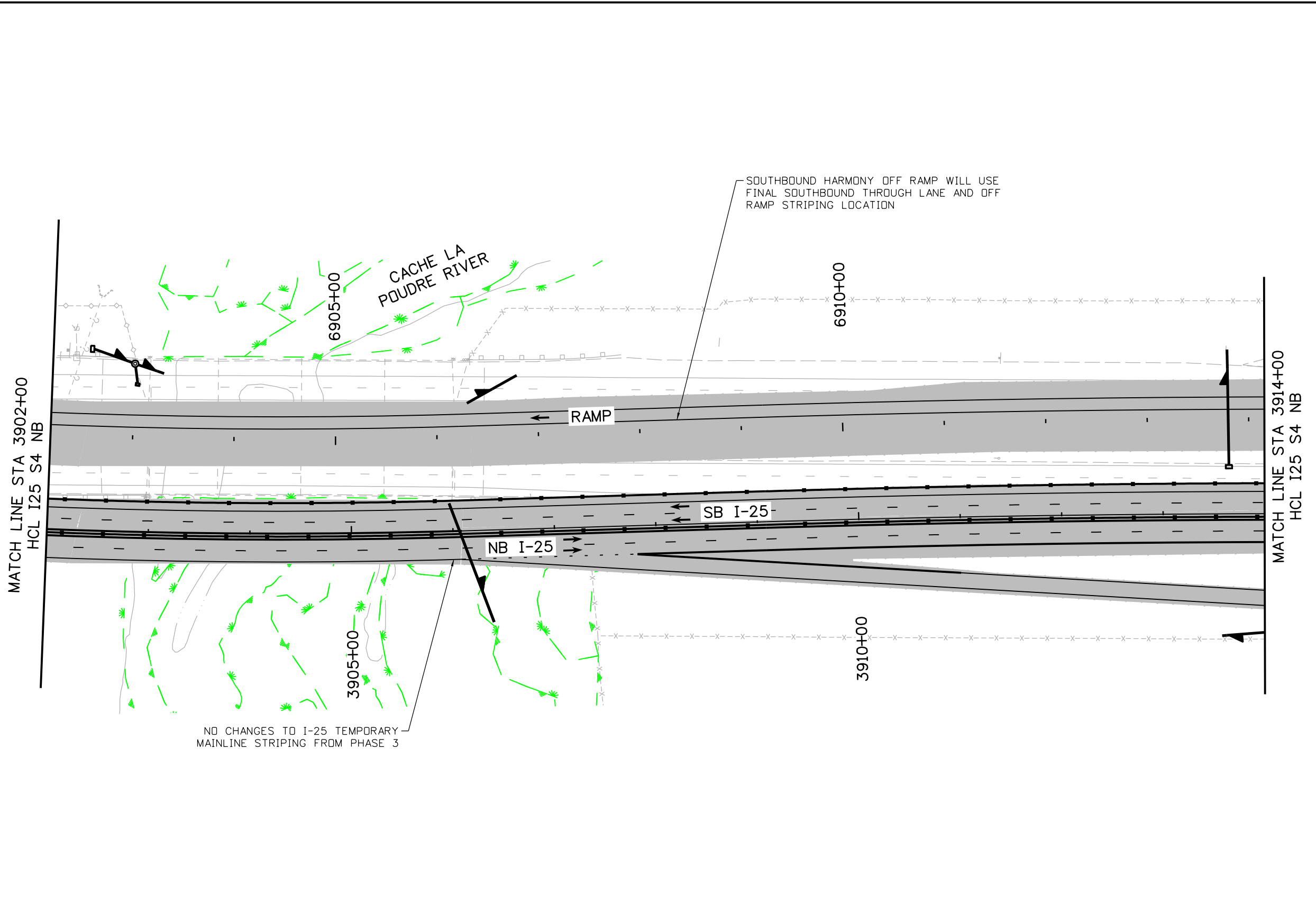
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As Constructed
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Detailer:	A. Mahmood	Numbers	
Sheet Subset:	MOT	Subset Sheets:	58 of 73

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SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

KEY MAP

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

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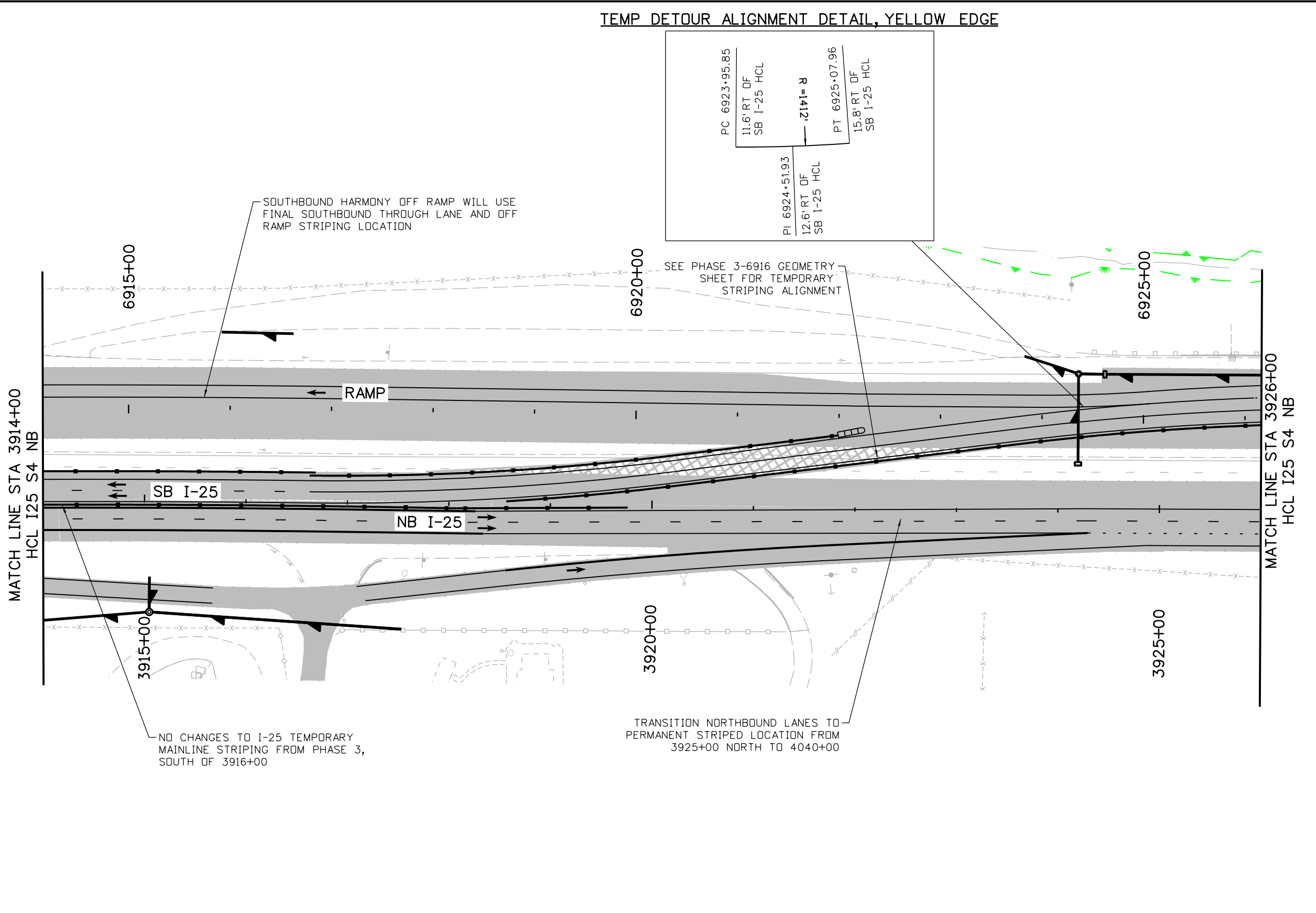
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- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
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- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
- TEMPORARY PAVEMENT WORK AREA
- COMPLETED TEMPORARY PAVEMENT
- PREVIOUSLY COMPLETED WORK
- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP) 350 TEST LEVEL 3 REQUIREMENTS
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

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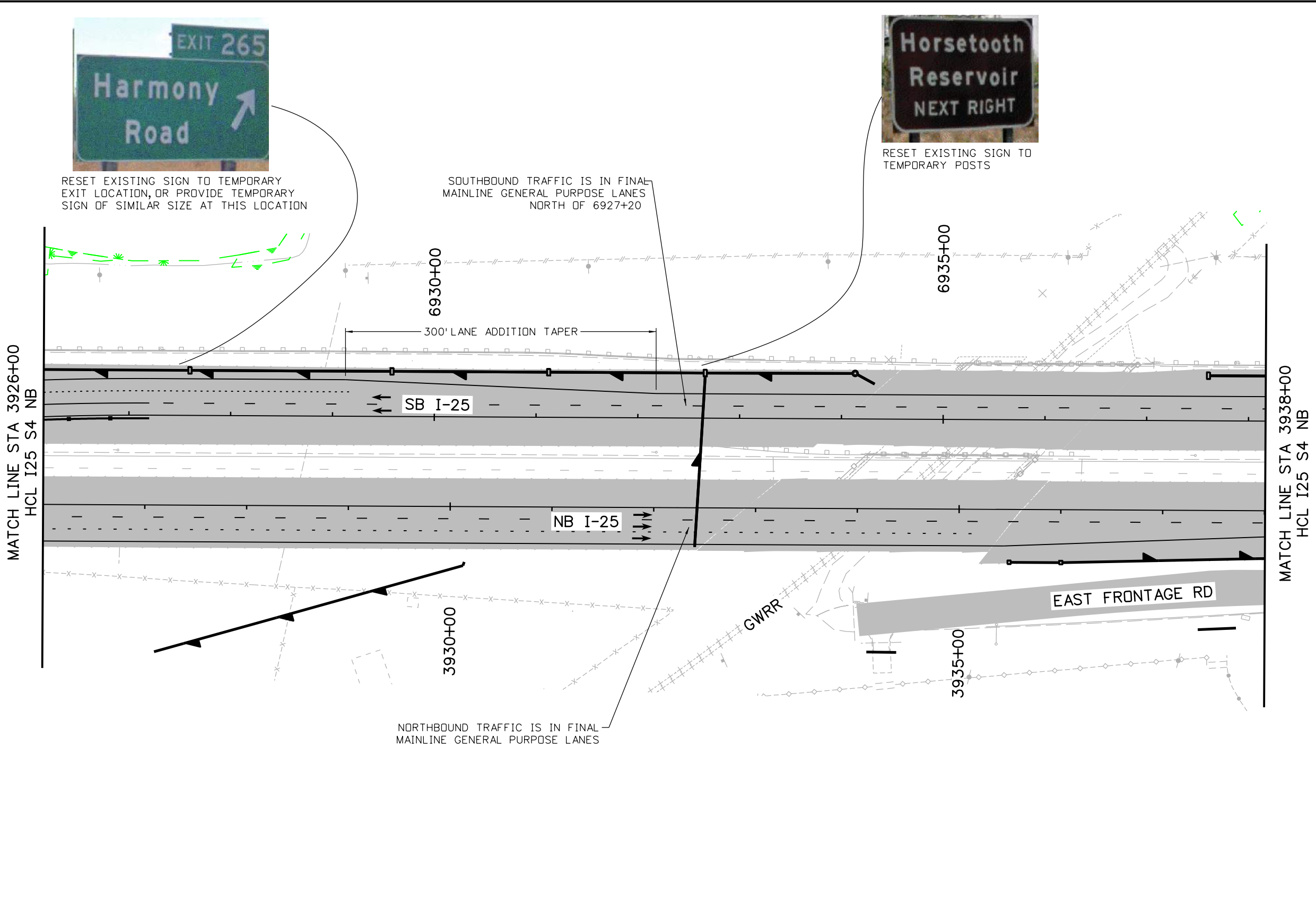
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SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

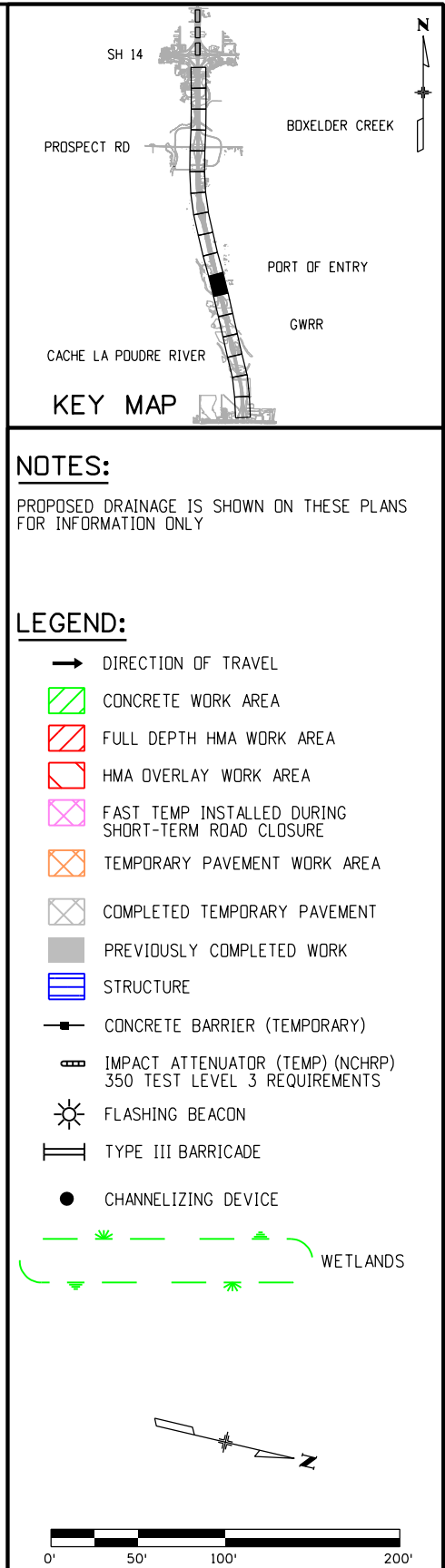
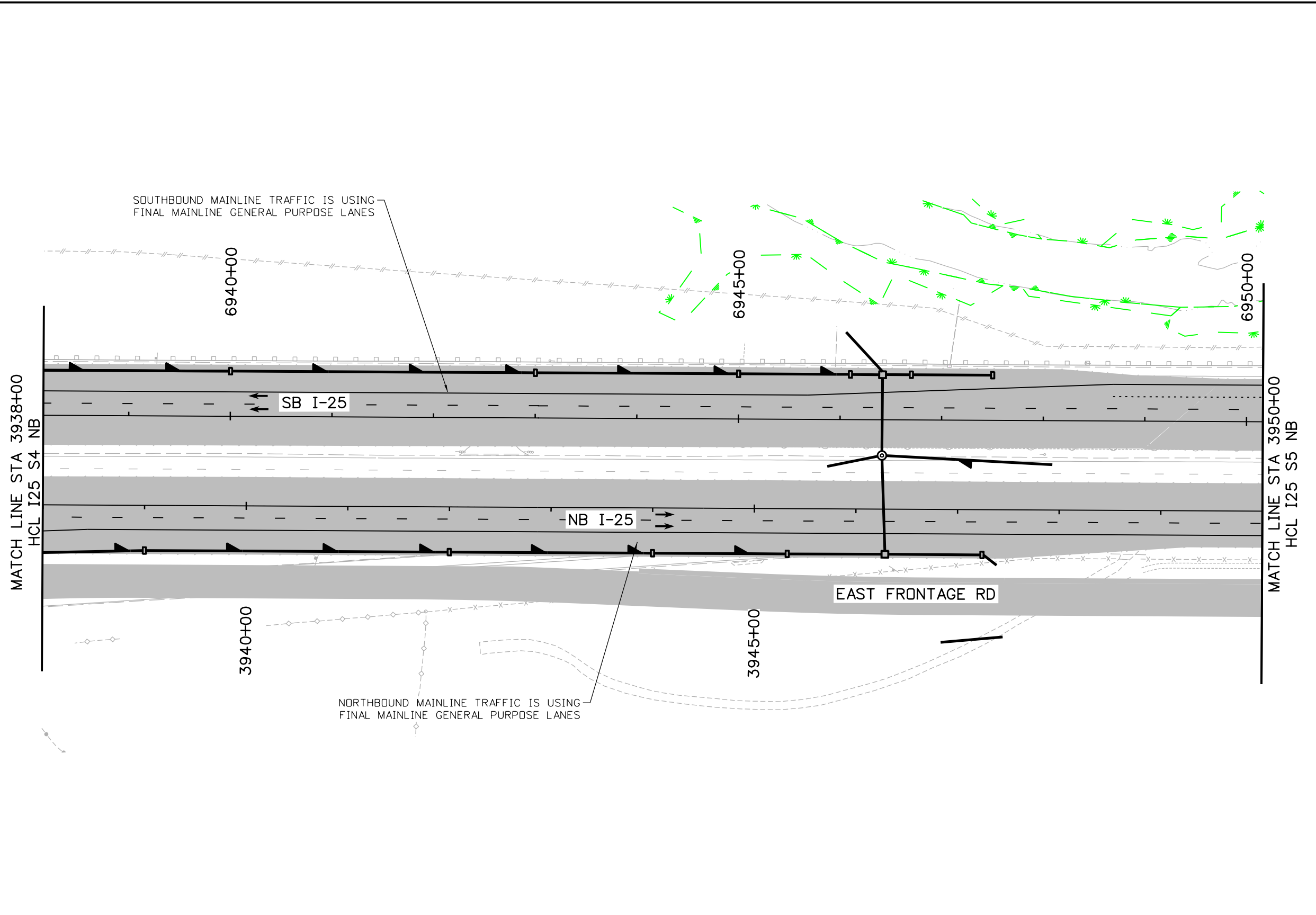
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- CONCRETE WORK AREA
- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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- COMPLETED TEMPORARY PAVEMENT
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- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS

0' 50' 100' 200'

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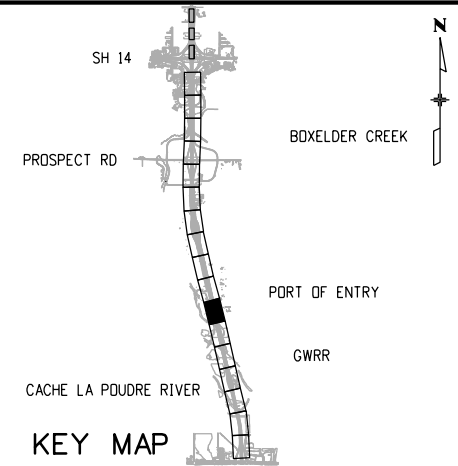
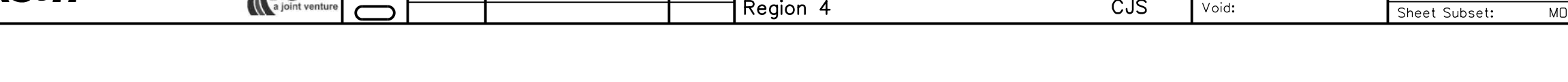
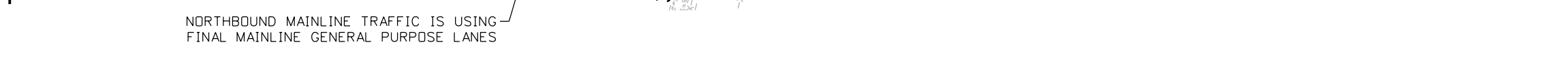
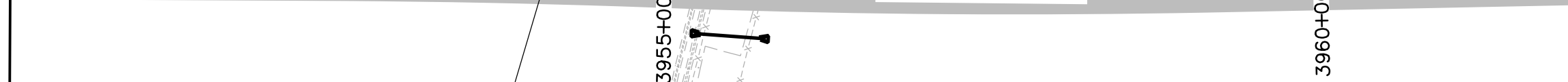
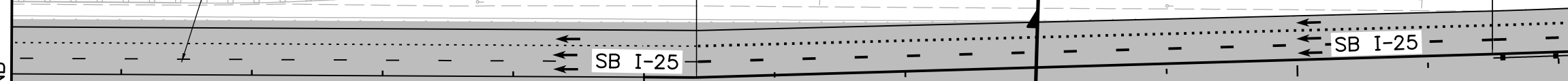
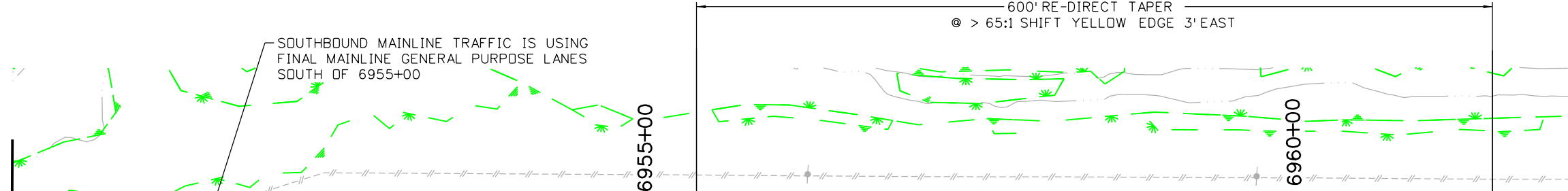
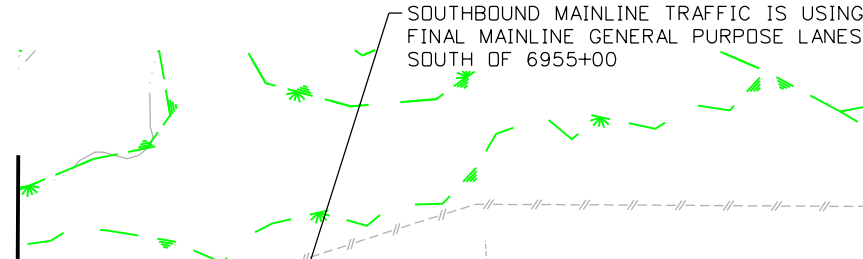
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CJS

482



PROPOSED DRAINAGE IS SHOWN ON THESE PLANS
FOR INFORMATION ONLY

→ DIRECTION OF TRAVEL

 CONCRETE WORK AREA

 FULL DEPTH HMA WORK AREA

 HMA OVERLAY WORK AREA

 FAST TEMP. INSTALLED DURING SHORT-TERM ROAD CLOSURE

 TEMPORARY PAVEMENT WORK AREA

 COMPLETED TEMPORARY PAVEMENT

 PREVIOUSLY COMPLETED WORK

 STRUCTURE

 CONCRETE BARRIER (TEMPORARY)

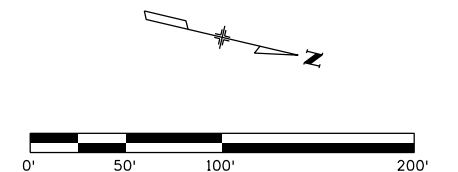
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 FLASHING BEACON

 TYPE III BARRICADE

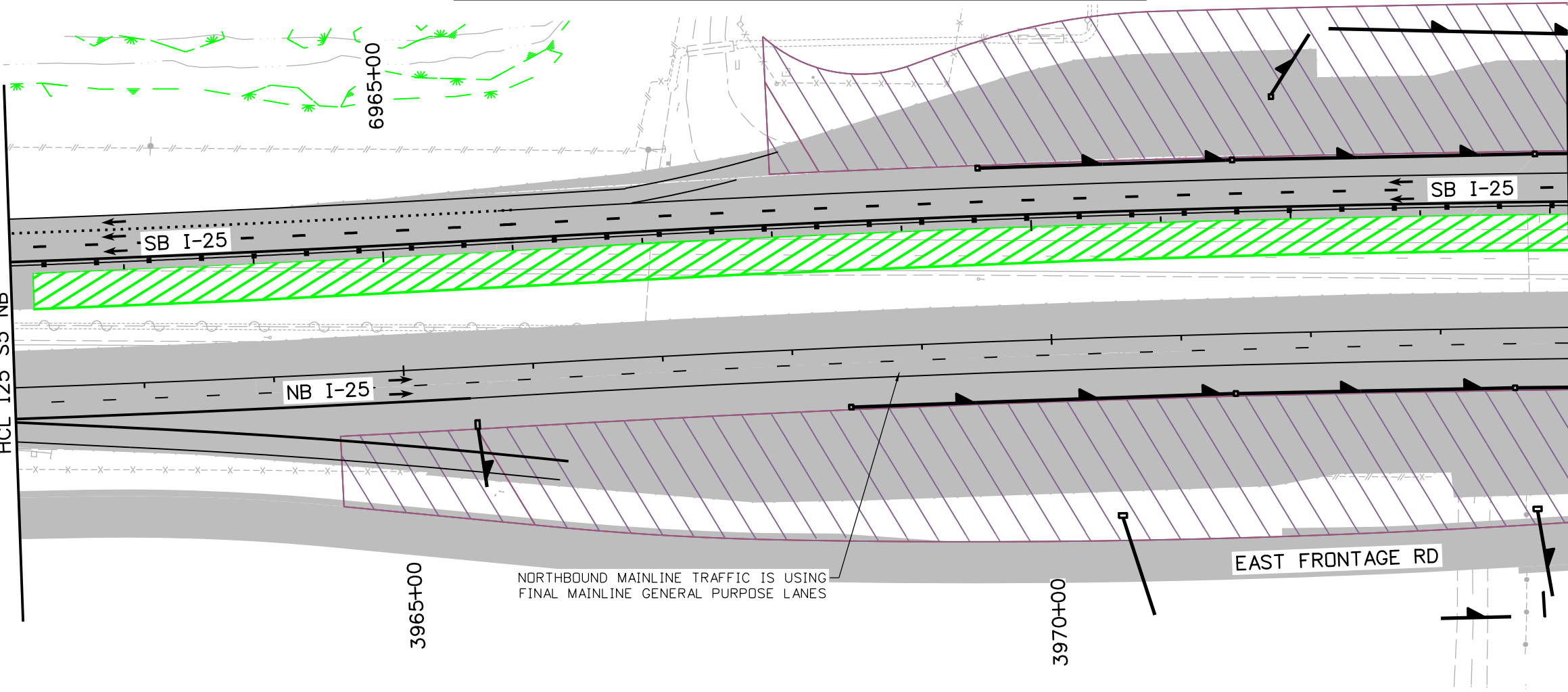
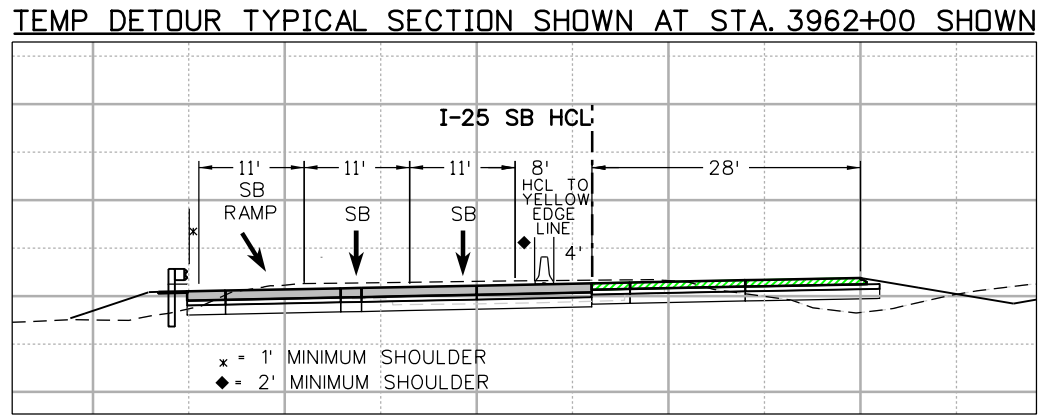
 CHANNELIZING DEVICE

 WETLANDS



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MATCH LINE STA 3962+00
HCL 125 S5 NB



KEY MAP

NOTES:

PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

LEGEND:

- DIRECTION OF TRAVEL
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- STRUCTURE
- CONCRETE BARRIER (TEMPORARY)
- IMPACT ATTENUATOR (TEMP) (NCHRP 350 TEST LEVEL 3 REQUIREMENTS)
- FLASHING BEACON
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- WETLANDS
- NOT FOR CONSTRUCTION

0' 50' 100' 200'

Print Date: 10/15/2020
File Name: 21506DES_MOT_Phasing_4_SHT 6 to 11-S5M.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

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Colorado Department of Transportation



Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

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No Revisions:

Revised:

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NORTH I-25 EXPRESS LANES
PHASE 4 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure
Numbers

Subset Sheets: 64 of 73

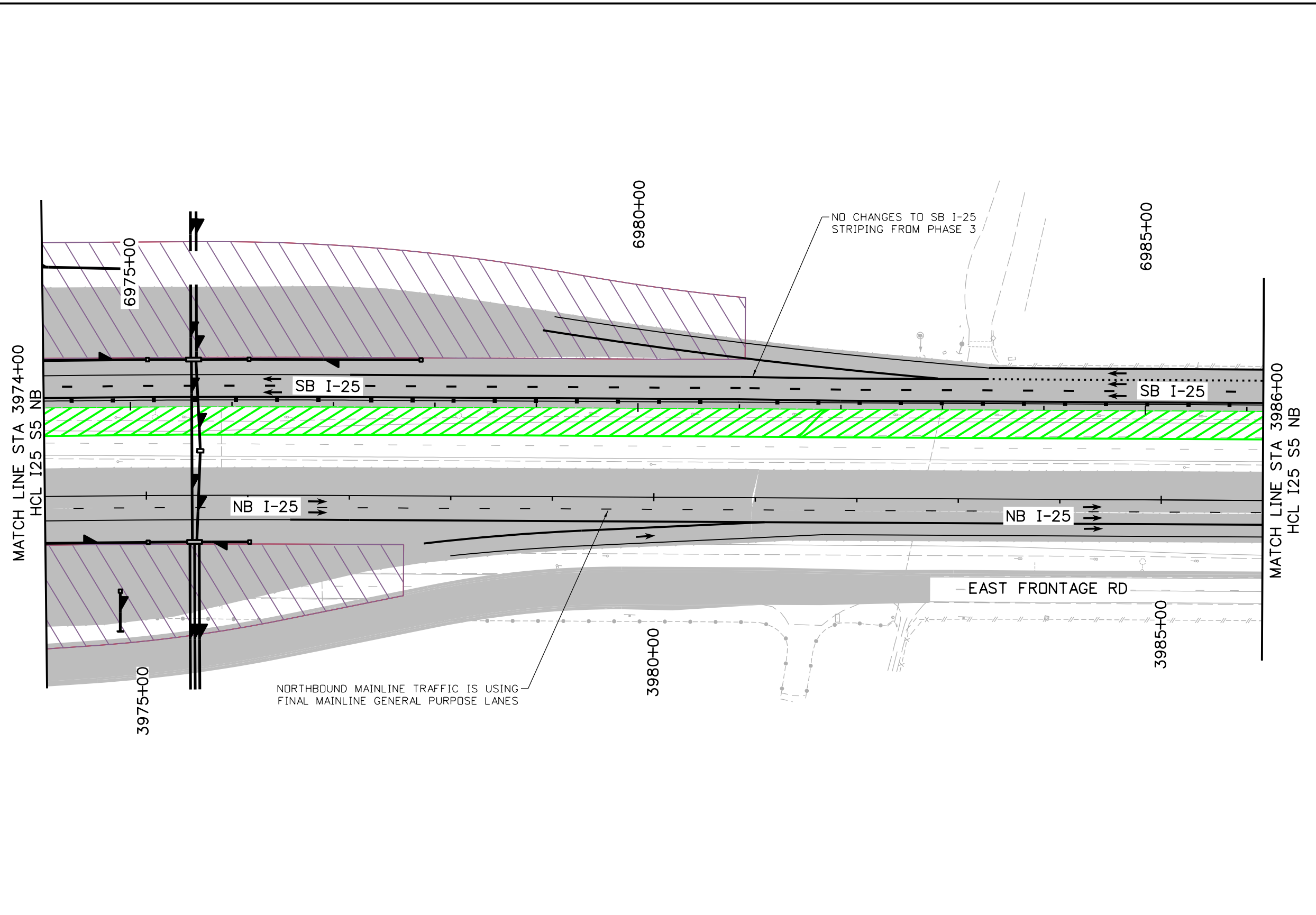
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21506

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SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER
KEY MAP

NOTES:
PROPOSED DRAINAGE IS SHOWN ON THESE PLANS FOR INFORMATION ONLY

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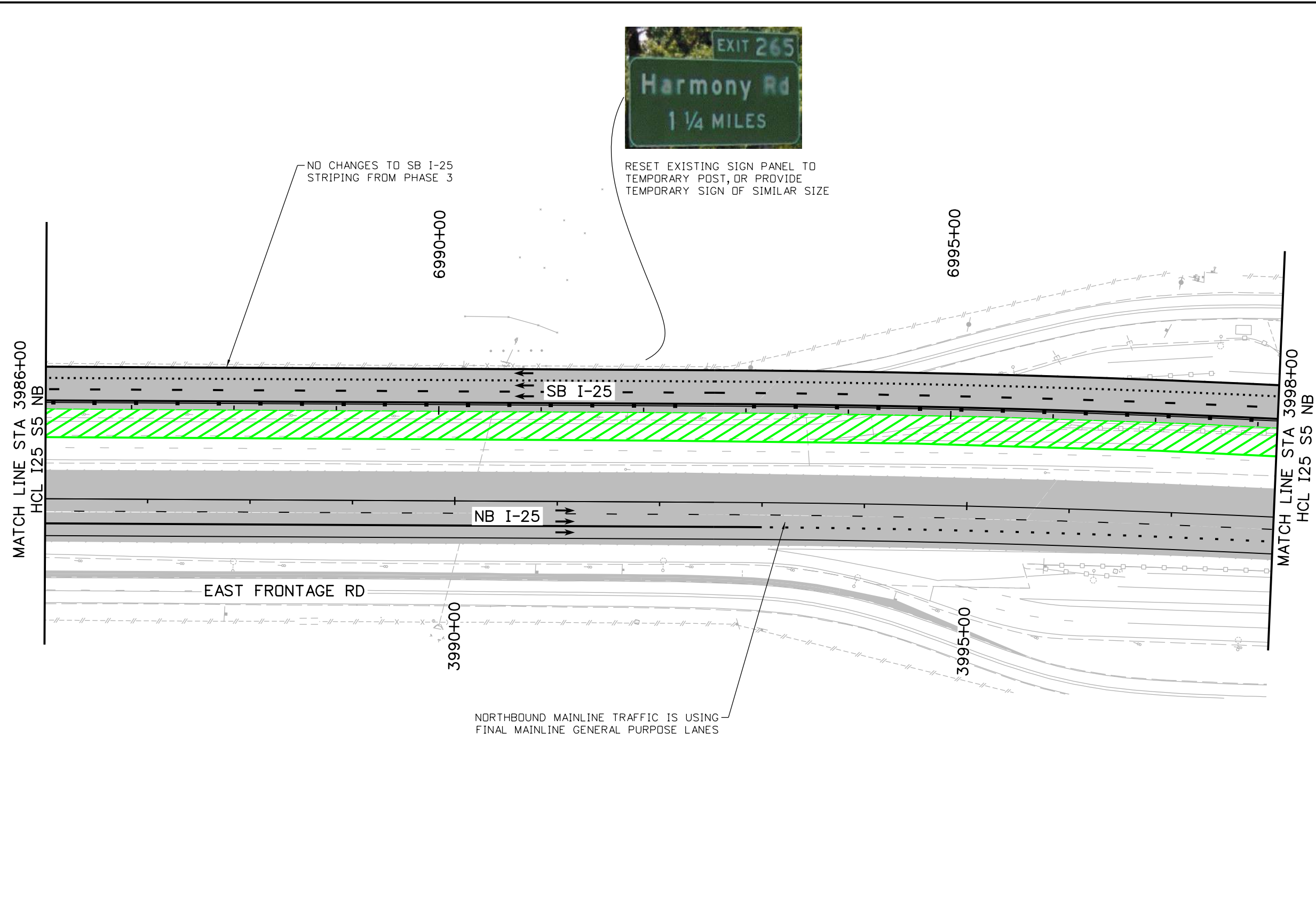
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- FULL DEPTH HMA WORK AREA
- HMA OVERLAY WORK AREA
- FAST TEMP INSTALLED DURING SHORT-TERM ROAD CLOSURE
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Print Date: 10/15/2020			Sheet Revisions			CDOT CO Colorado Department of Transportation 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES PHASE 4 PLAN MAINTENANCE OF TRAFFIC PLAN			Project No./Code	
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NORTH I-25 EXPRESS LANES PHASE 4 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

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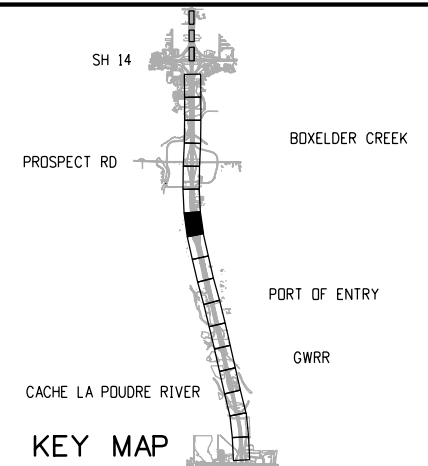
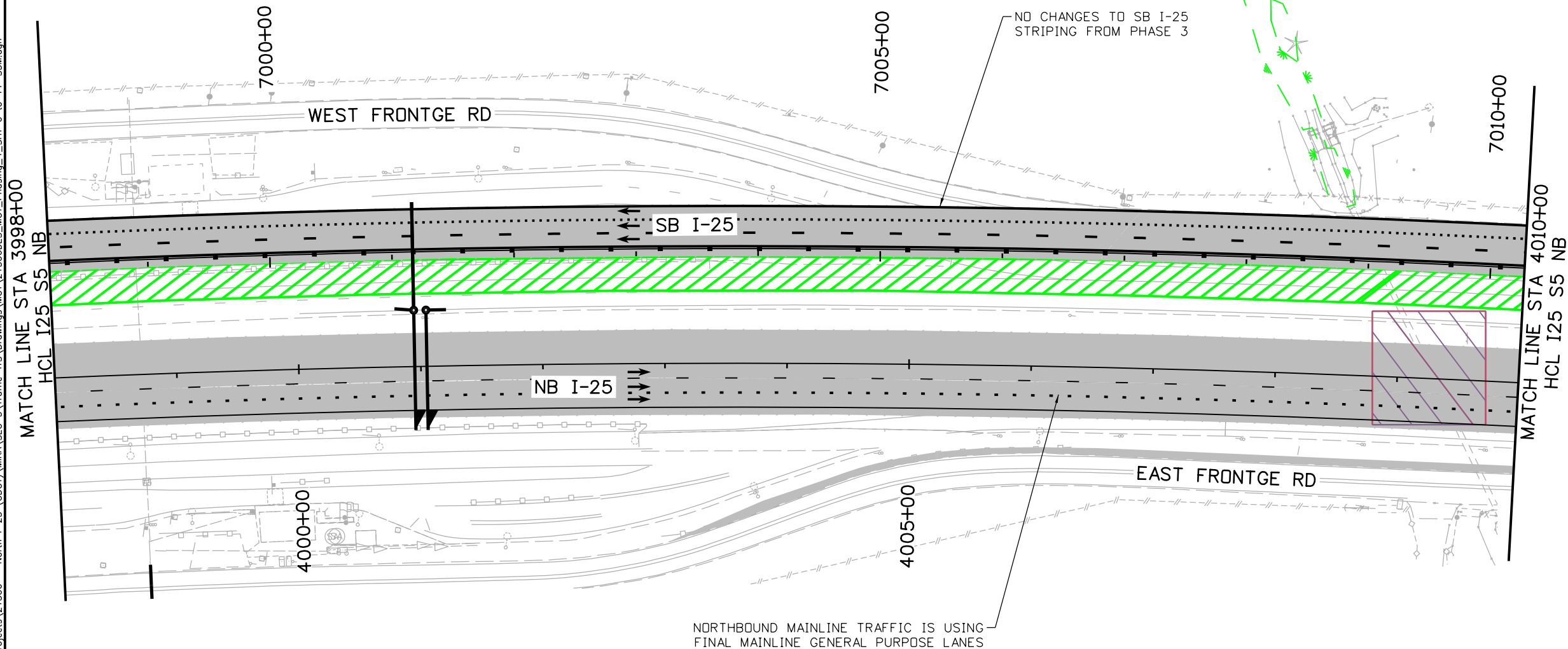
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Project No./Code

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Sheet Number 486

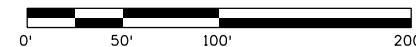


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Segment 5M - RFC - CDOT - 10.19.2020

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NORTH I-25 EXPRESS LANES PHASE 4 PLAN MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

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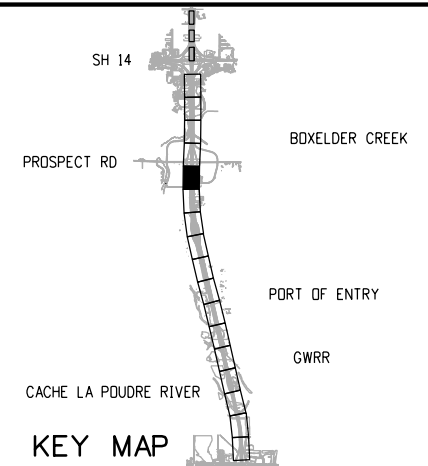
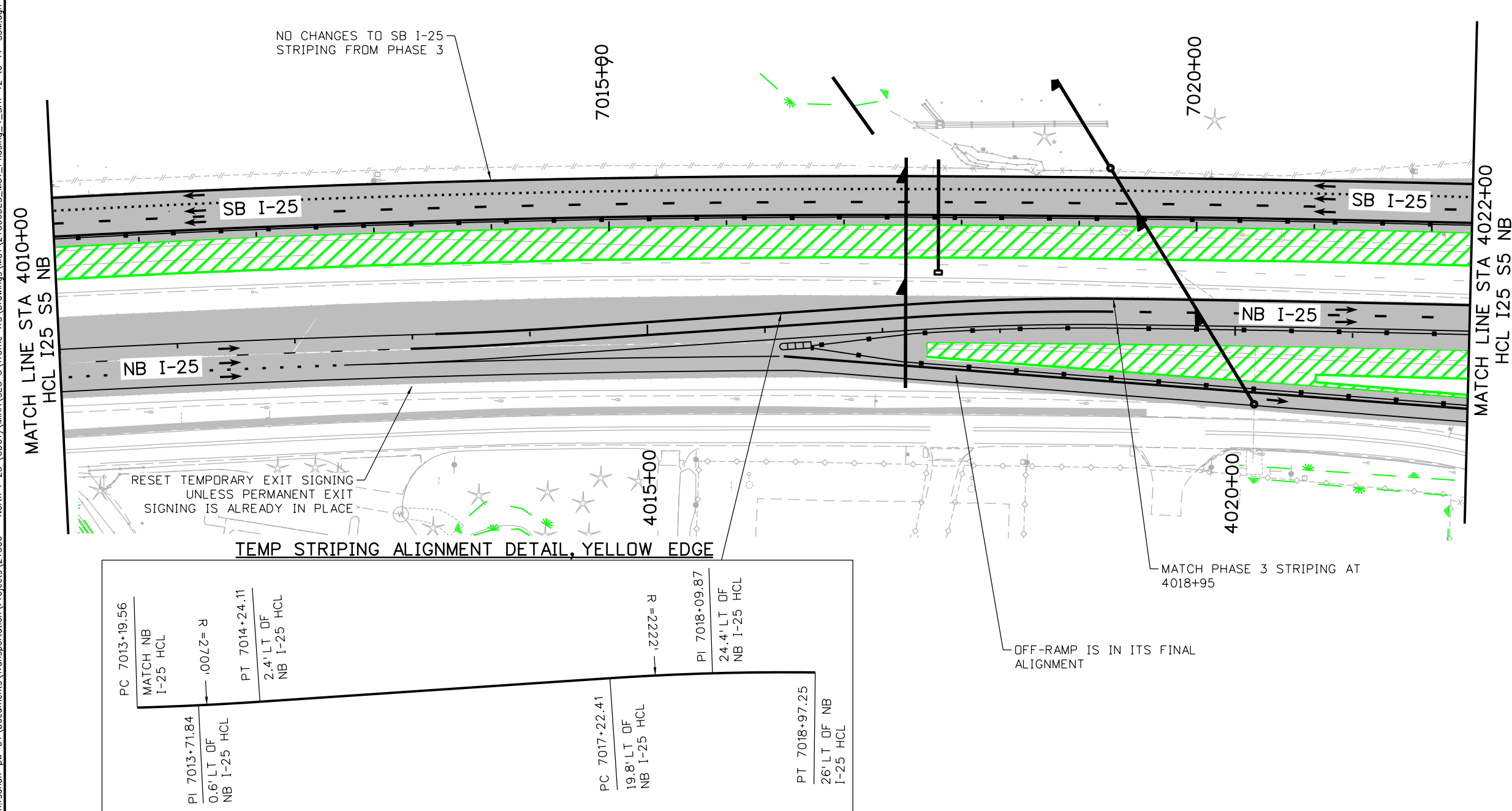
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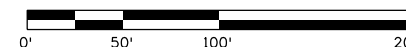


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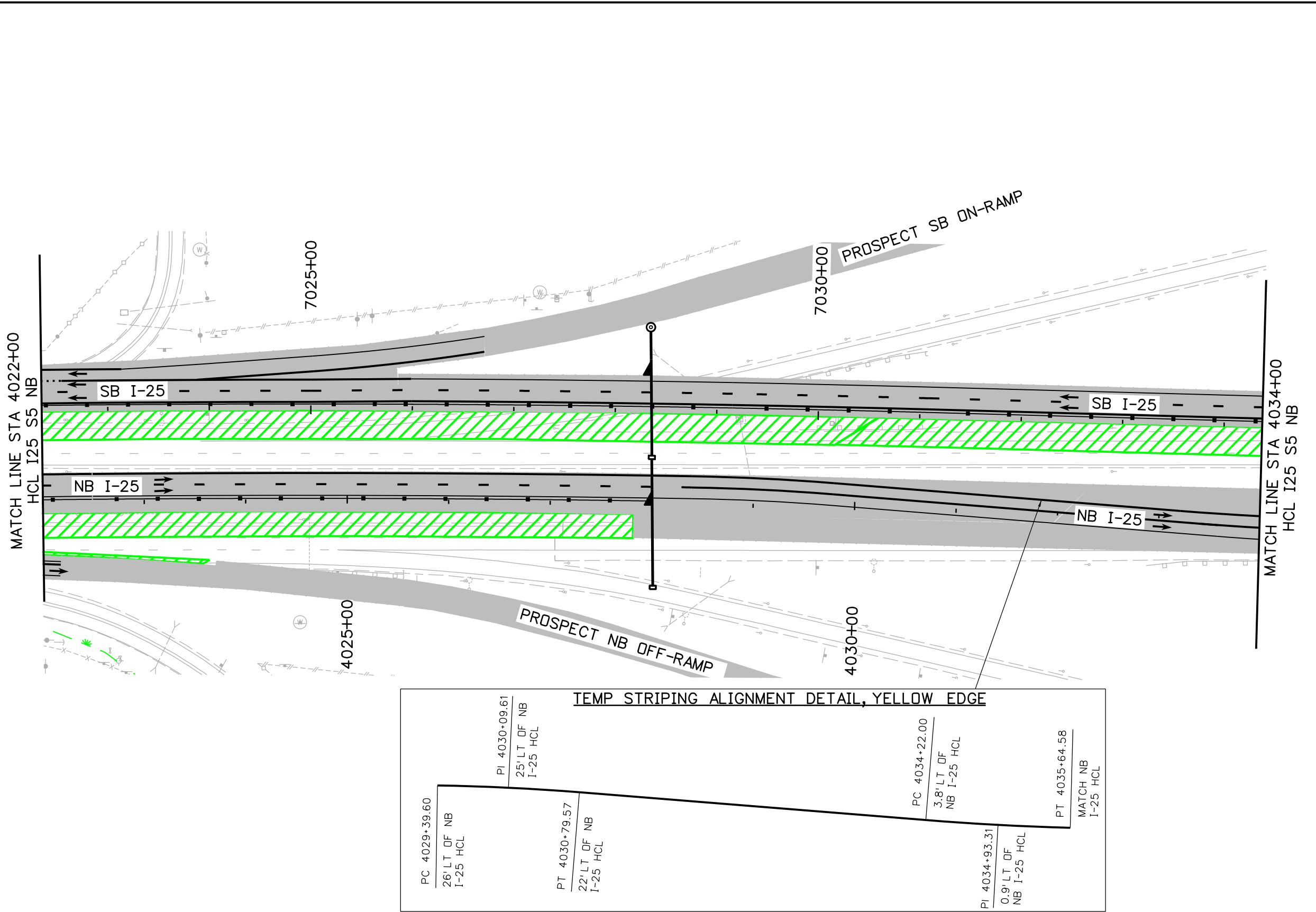
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- CHANNELIZING DEVICE
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Segment 5M - RFC - CDOT - 10.19.2020

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KEY MAP

SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

NOTES:

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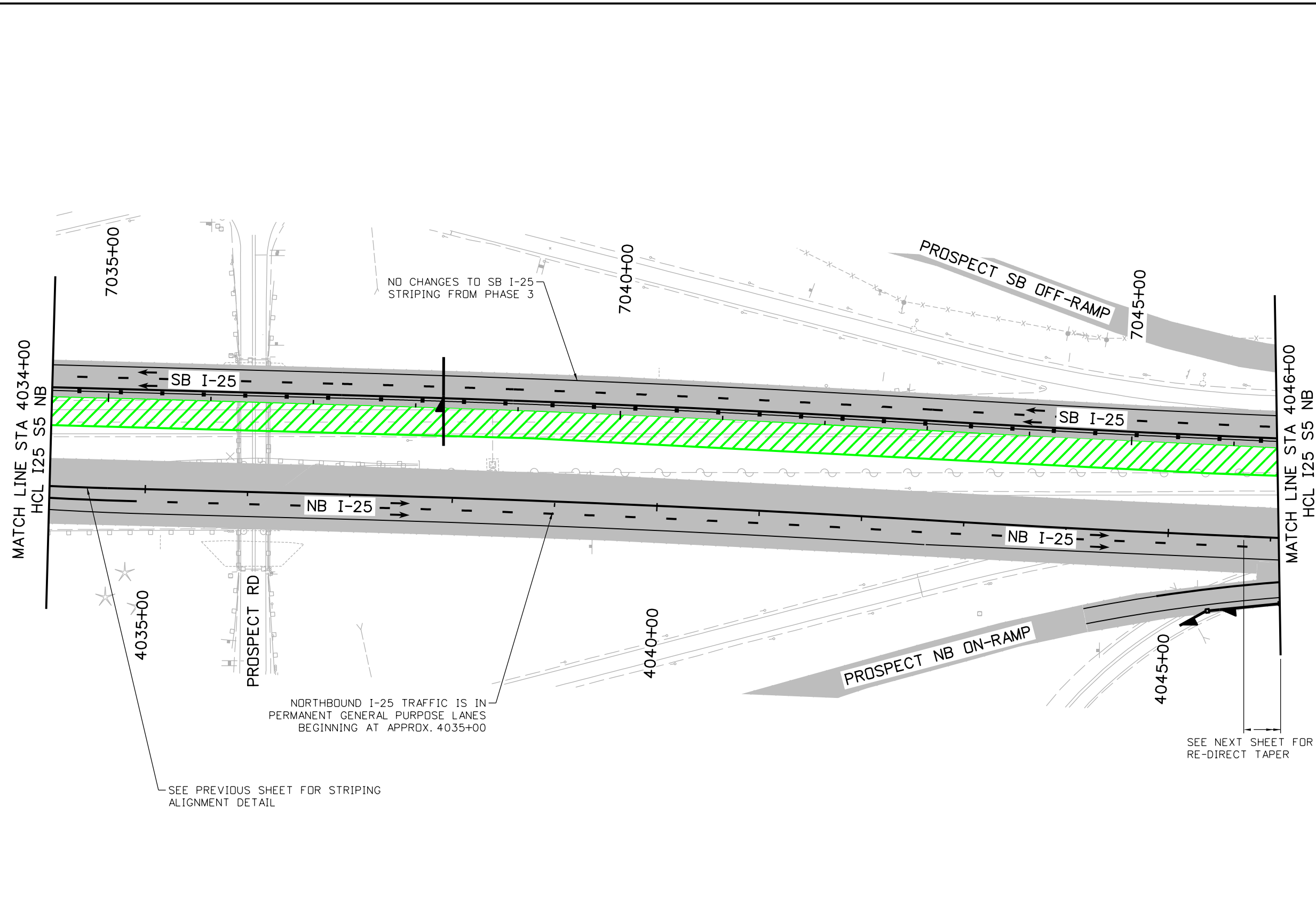
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0' 50' 100' 200'

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KEY MAP

SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDE RIVER

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Region 4

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NORTH I-25 EXPRESS LANES
PHASE 4 PLAN
MAINTENANCE OF TRAFFIC PLAN

Designer: D. Woolfall
Detailer: A. Mahmood
Sheet Subset: MOT

Structure Numbers
Subset Sheets: 70 of 73

Project No./Code

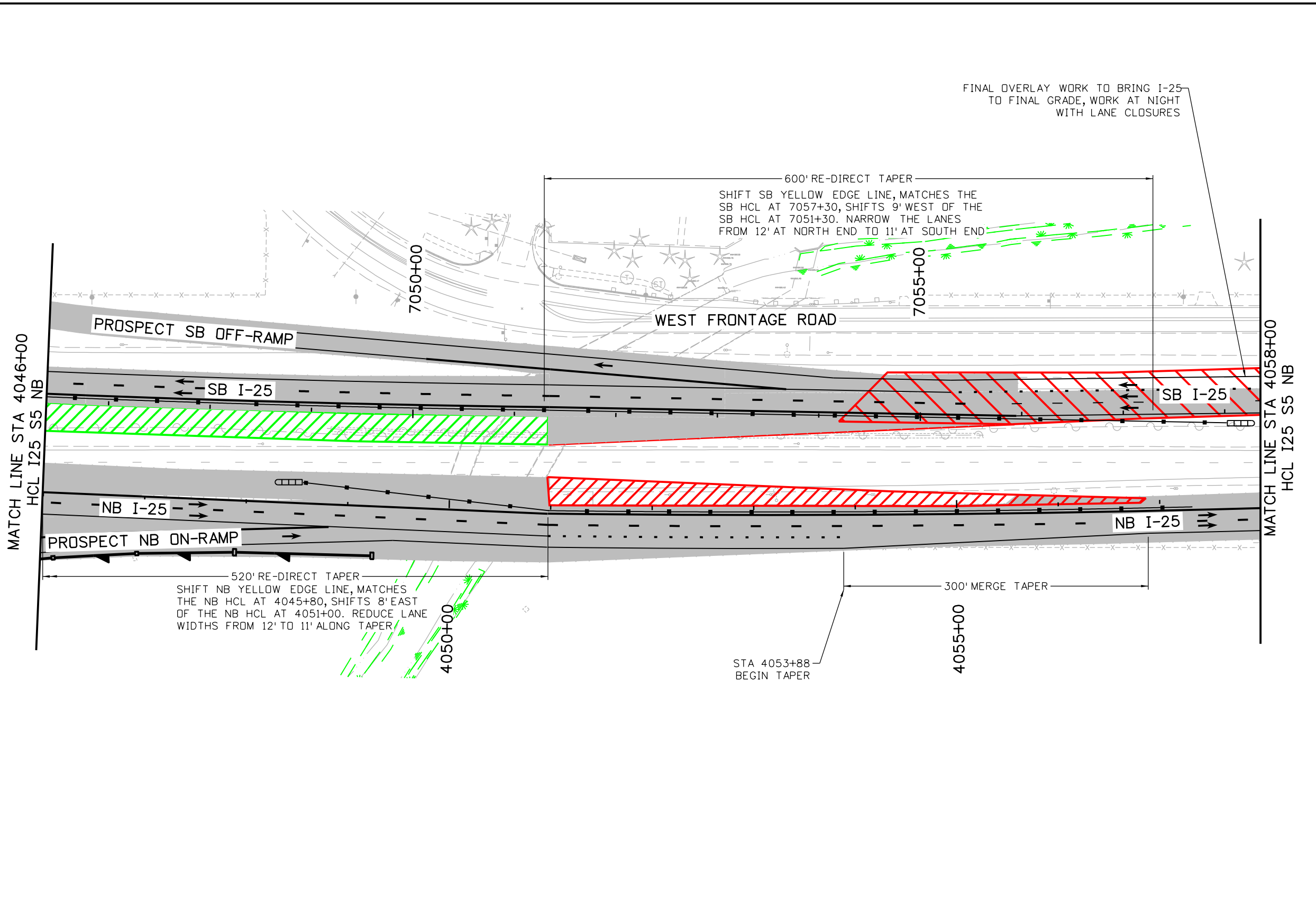
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Segment 5M - RFC - CDOT - 10.19.2020

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KEY MAP

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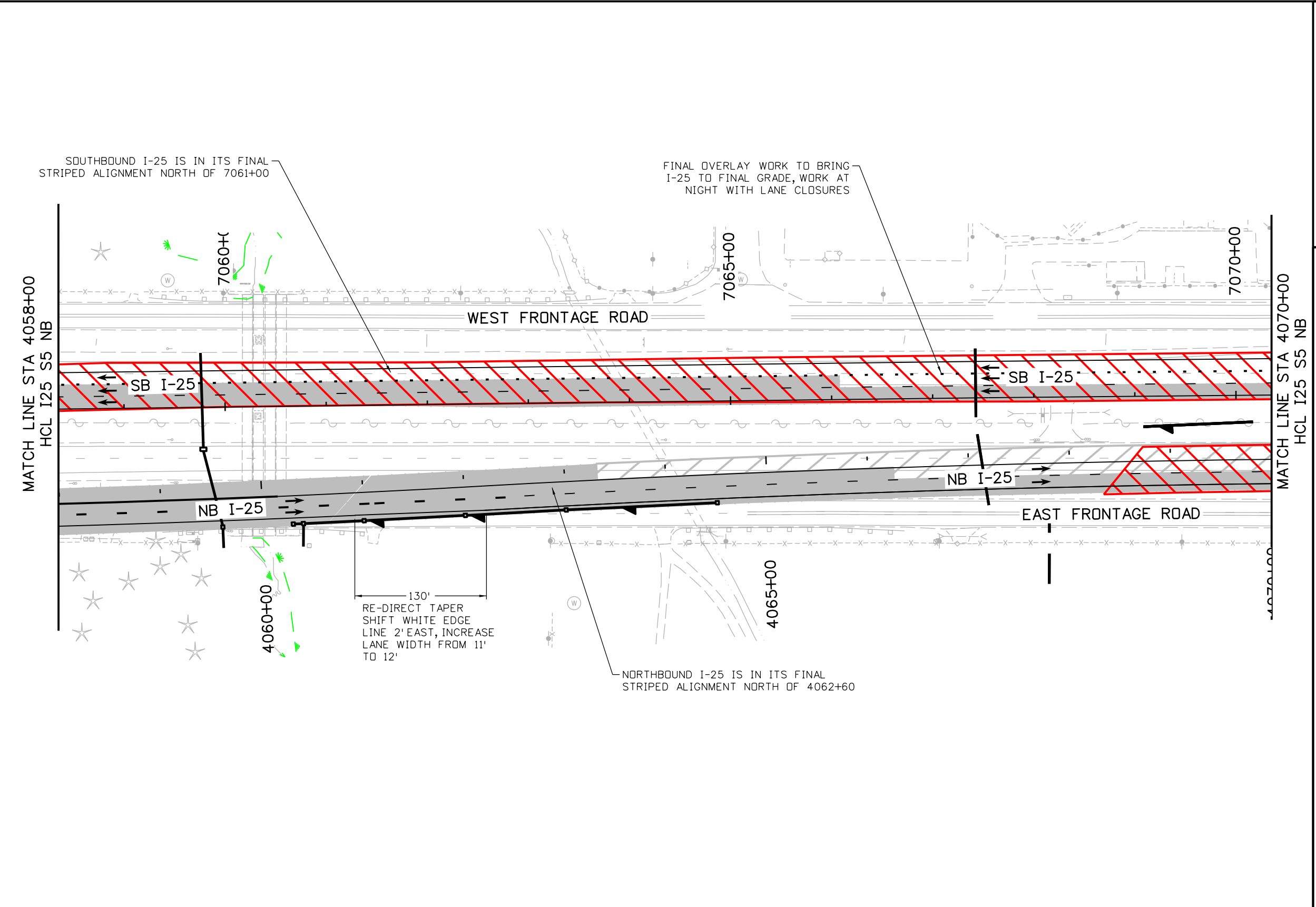
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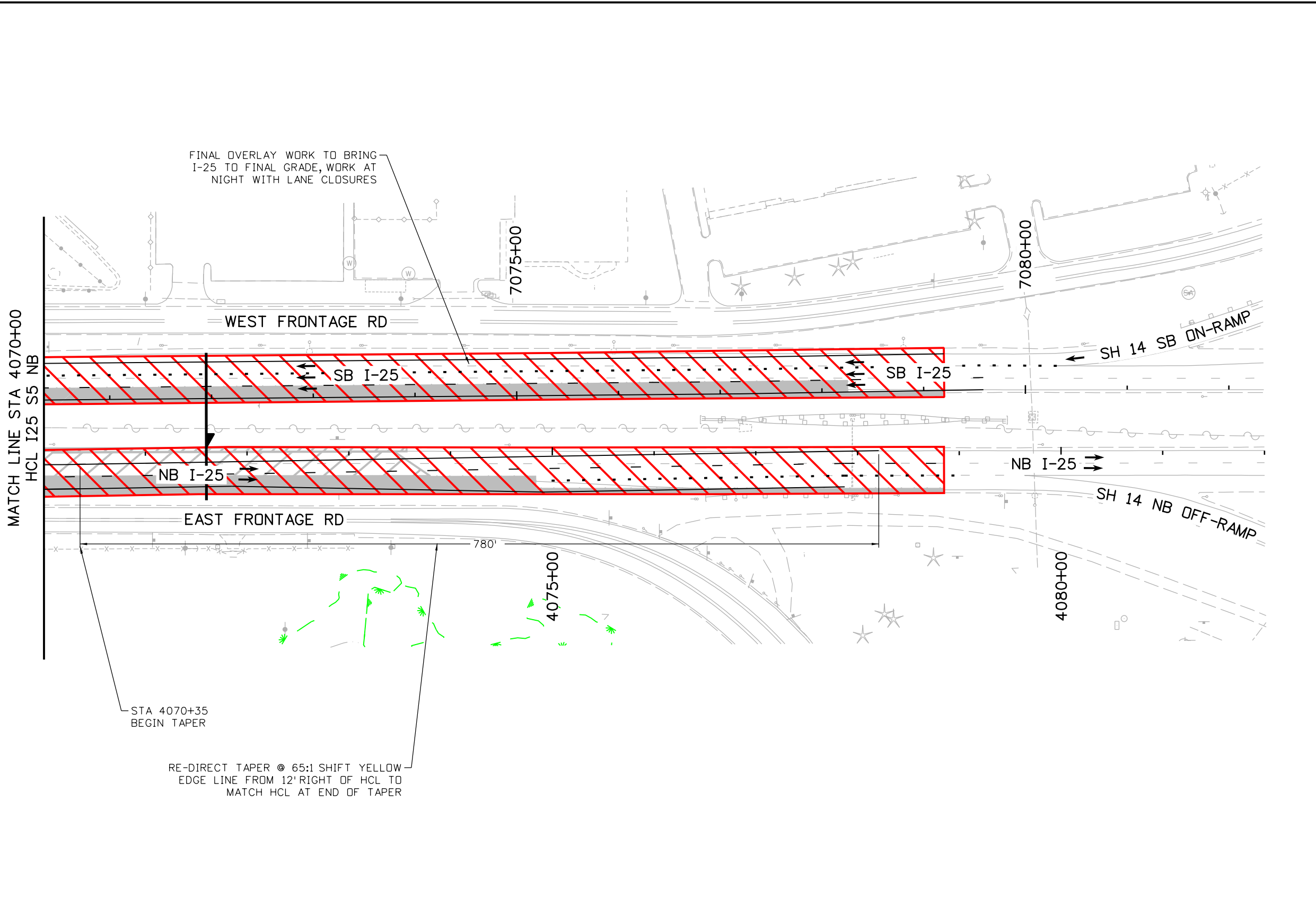
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SH 14

PROSPECT RD

BOXELDER CREEK

PORT OF ENTRY

GWRR

CACHE LA POUDRE RIVER

KEY MAP

NOTES:

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SIGNING AND STRIPING NOTES

1. UNLESS OTHERWISE NOTED IN THE PLANS, ALL SIGNING AND STRIPING WORK SHALL BE IN ACCORDANCE WITH CDOT'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION," CDOT'S "M&S STANDARD PLANS, 2012 EDITION," AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION," INCLUDING REVISIONS.
2. SIGN SYMBOLS ARE NOT TO SCALE AND HAVE BEEN ENLARGED FOR CLARITY. SIGN LOCATIONS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED WITHIN THE GROUND SIGN PLACEMENT REQUIREMENTS OF CDOT STANDARD PLAN NO. S-614-1.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES, THE UTILITY PLANS FOR THIS PROJECT, AND THE UTILITY TECHNICAL REQUIREMENTS FOR THIS PROJECT. UTILITIES ARE NOT SHOWN ON THE SIGNING AND STRIPING PLANS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL FEATURES, INCLUDING ALL UNDERGROUND AND ABOVE GROUND UTILITIES, PRIOR TO BEGINNING SIGNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ALL UTILITY INFORMATION. FOR UTILITY CONSTRUCTION COORDINATION, THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER FOR COLORADO AT 811.
4. ALL GROUND SIGNS AND DELINEATORS ALONG THE PROJECT WIDENING LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS. ALL GROUND SIGNS AND DELINEATORS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL INSTALL A TYPE III (3-YELLOW) DELINEATOR AT OBJECTS NEAR THE EDGE OF THE ROADWAY PER GENERAL NOTE 7 OF CDOT STANDARD PLAN NO. S-612-1.
6. ALL SERVICE SIGNS SHALL BE RESET BY COLORADO LOGOS INC. AS SHOWN IN THE PLANS. CONTRACTOR SHALL COORDINATE WITH COLORADO LOGOS INC. TO RESET SIGNS AS SHOWN IN THE PLANS OR AS OTHERWISE DIRECTED BY THE CONTRACTOR'S ENGINEER. PHONE: (303) 462-2320.
7. ALL CLEAN COLORADO SIGNS SHALL BE RESET BY ADOPT A HIGHWAY MAINTENANCE CORPORATION AS SHOWN IN THE PLANS. CONTRACTOR SHALL COORDINATE WITH BILL ELLIOTT TO RESET SIGNS SHOWN IN THE PLANS OR AS OTHERWISE DIRECTED BY THE CONTRACTOR'S ENGINEER. PHONE: (800) 200-0003 EXT. 302.
8. THE CONTRACTOR SHALL COORDINATE MILEPOST SIGN LOCATIONS WITH CDOT HEADQUARTERS PRIOR TO INSTALLING MILEPOST SIGNS.
9. BARRIER REFLECTORS SHALL BE INSTALLED AT 200' MAXIMUM SPACING ALONG THE TOP OF ALL PROPOSED TYPE 7 BARRIER PER CDOT STANDARD PLAN S-612-1.
10. ALL CONCRETE SHALL HAVE CLASS 2 SULFATE RESISTANCE.
11. PAVMENT MARKINGS SHALL BE THE TYPE AS LISTED IN TABLE 14-2.

TABLE 14-2 - PAVEMENT MARKING MATERIALS

Location	Pavement Marking Type
Edge lines and channelizing lines	Modified Epoxy Pavement Marking
Broken lines of any type on Portland concrete cement (PCCP)	Preformed Plastic Pavement Marking (Type II) (Inlaid) (contrast)*
Broken lines of any type on Hot Mix Asphalt (HMA)	Preformed Plastic Pavement Marking (Type I)
Word/symbols/cross walks/stop lines	Preformed Plastic Pavement Marking (Type I)

* CONTRAST STRIPING DENOTED AS 4" WIDE IN THE PLANS SHALL HAVE A 1½" BLACK BORDER FOR A TOTAL OF 7" WIDE. CONTRAST STRIPING DENOTED AS 8" WIDE IN THE PLANS SHALL HAVE A 1½" BLACK BORDER FOR A TOTAL OF 11" WIDE.

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Region 4

Colorado Department of Transportation
10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed	NORTH I-25 EXPRESS LANES			Project No./Code
No Revisions:	SIGNING AND STRIPING NOTES			IM 0253-255
Revised:	Designer: T. Hurd	Structure		21506
	Detailer: R. Kelzenberg	Numbers		
Void:	Sheet Subset: SS NOTES	Subset Sheets:	1 of 1	Sheet Number 493

Segment 5M - RFC - CDOT - 10.19.2020

Ryan.Kelzenberg
10/15/2020 4:35:48 PM
DGN MODEL: SIGN TAB 02
pw:\\s0ndh-pw-bentley.com\\rs0ndh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA SEG 5\\Traffic-ITS\\Drawings\\S&S\\21506TRAF_Sign Tab - S5M.dgn

TABULATION OF SIGNS

SIGN NO.	LOCATION	STATION	DIRECTION	SIGN CODE	SIGN PANEL SIZE			BACKGROUND COLOR	LEGEND	SIGN PANEL (SF)			RESET SIGN PANEL	NO. POSTS	LENGTH OF POST(S)	SIGN STEEL POST			POST BASE			POST TYPE (LF)					CONCRETE FOOTING TYPE (EA)														
					CLASS I	CLASS II	CLASS III			2" P	2.5" P1	2.5" P2				2" P	2.5" P1	2.5" P2	W 6X12 BEAM	W 6X15 BEAM	W 8X21 BEAM	W 10X22 BEAM	W 10X26 BEAM	1	2	4	5	6													
													W"		x														H"	EA	EA	EA									
5048	E FRONTAGE RD	101+67	SB	W8-3	36	x	36	YELLOW	PAVEMENT ENDS		9			1	12		12			1																					
5049	E FRONTAGE RD	102+00	NB	R2-1 (45)	24	x	30	WHITE	SPEED LIMIT 45 MPH	5				1	12	12			1																						
5050	E FRONTAGE RD	102+67	SB	W1-2L	30	x	30	YELLOW	CURVE WARNING (LEFT)	6.3				1	12		12			1																					
				W13-1P (20)	18	x	18	YELLOW	ADVISORY SPEED 20 MPH	2.3				(ATTACH TO POST ABOVE)																											
5051	SHOULDER	6937+29	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				1	8	8			1																						
5053	SHOULDER	6939+00	SB	D10-3a	10	x	48	GREEN	MILE 266.5		3.4			1	10	10			1																						
5054	SHOULDER	3939+00	NB	D10-3a	10	x	48	GREEN	MILE 266.5		3.4			1	10	10			1																						
5055	SHOULDER	6941+75	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																											
5056	OVERHEAD	6941+75	SB	SPECIAL	144	x	120	GREEN	EXT 265 - HARMONY ROAD 1 MILE			120		(OVERHEAD SIGN STRUCTURE)																											
5056A	SHOULDER	3944+35	NB	S-614-12	8	x	24	WHITE	STRUCTURE NUMBER	1.3				1	8	8			1																						
5057	OVERHEAD	3946+50	NB	SPECIAL	132	x	96	WHITE	EXPRESS ONLY			88		(OVERHEAD SIGN STRUCTURE)																											
5058	MEDIAN	3946+50	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																											
5059	MEDIAN	6947+00	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																											
5061	SHOULDER	3950+00	NB	SPECIAL	144	x	168	BLUE	EXT 268 - REST AREA - COLORADO WELCOME CENTER			168																			2										
5062	MEDIAN	3950+00	NB	SPECIAL	48	x	72	WHITE	EXPRESS LANE; PENALTY FOR HOV VIOLATION			24		1	14		14			1																					
5063	SHOULDER	6951+00	SB	R52-6d	120	x	60	WHITE	STATE LAW - MOVE OVER OR SLOW DOWN		50																														
5064	MEDIAN	6953+00	SB	SPECIAL	48	x	72	GREEN	LOCAL EXIT - HARMONY ROAD 1/2 MILE			24		1	14		14			1										2											
5064A	SHOULDER	3953+00	NB	D8-2	108	x	90	GREEN	WEIGH STATION NEXT RIGHT			67.5																		2											
5065	MEDIAN	3954+00	NB	SPECIAL	36	x	60	WHITE	DO NOT CROSS DOUBLE WHITE LINES		15			1	14		14			1																					
5066	SHOULDER	3955+00	NB	W13-2 (30)	36	x	48	YELLOW	EXT 30 MPH		12			1	12		12			1																					
5067	SHOULDER	6956+00	SB	SPECIAL	96	x	72	WHITE	END ALL TRUCKS MUST USE RIGHT LANE			48		2	14		28			2																					
5068	E FRONTAGE RD & STABLE DR	121+77	WB	R1-1	30	x	30	RED	STOP	6.25				1	12	12			1																						
			NB	SPECIAL	36	x	10	GREEN	STABLE DR	2.5				(ATTACH TO POST ABOVE)																											
			SB	SPECIAL	36	x	10	GREEN	STABLE DR	2.5				(ATTACH TO POST ABOVE)																											
5069	MEDIAN	3958+00	NB	SPECIAL	48	x	72	GREEN	LOCAL EXIT - PROSPECT ROAD 1/2 MILE			24		1	14		14			1																					
5070	SHOULDER	3961+30	NB	D8-3	84	x	78	GREEN	WEIGH STATION			45.5		2	16			32			2																				
5071	SHOULDER	6963+50	SB	W4-1R	48	x	48	YELLOW	MERGE		16			1	12		12			1																					
5073	SHOULDER	3964+00	NB	D10-3	10	x	36	GREEN	MILE 267	2.5				1	8	8			1																						
5074	SHOULDER	6964+17	SB	D10-3	10	x	36	GREEN	MILE 267	2.5				1	8	8			1																						
5078	MEDIAN	6967+00	SB	SPECIAL	48	x	72	WHITE	EXPRESS LANE; PENALTY FOR HOV VIOLATION			24		1	14		14			1																					
5079	W FRONTAGE RD	6968+00	SB	W1-6R	48	x	24	YELLOW	ONE-DIRECTION LARGE ARROW (RIGHT)		8			1	10		10			1																					
5081	W FRONTAGE RD	6971+00	SB	W1-11R	30	x	30	YELLOW	HAIRPIN CURVE (RIGHT)	6.3				1	12		12			1																					
				W13-1P (15)	18	x	18	YELLOW	ADVISORY SPEED 15 MPH	2.3				(ATTACH TO POST ABOVE)																											
5083	MEDIAN	6972+00	SB	SPECIAL	36	x	60	WHITE	DO NOT CROSS DOUBLE WHITE LINES		15			1	14		14			1																					
5084	W FRONTAGE RD	6972+00	NB	R2-1 (30)	24	x	30	WHITE	SPEED LIMIT 30 MPH	5				1	12	12			1																						
5087	MEDIAN	6977+05	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																											
5088	OVERHEAD	6977+05	SB	SPECIAL	132	x	96	WHITE	EXPRESS ONLY			88		(OVERHEAD SIGN STRUCTURE)																											
5089	E FRONTAGE RD	145+35	SB	R2-1 (45)	24	x	30	WHITE	SPEED LIMIT 45 MPH	5				1	12	12			1																						
5092	SHOULDER	3980+00	NB	W4-1R	48	x	48	YELLOW	MERGE		16			1	12		12			1																					
5095	MEDIAN	6982+00	SB	SPECIAL	48	x	84	WHITE	EXPRESS LANE; HOV 3+ NO TOLL WITH EXPRESSTOLL			28		2	16		32			2																					
5096	OVERHEAD	3983+00	NB	SPECIAL	144	x	144	GREEN	EXT 268 - PROSPECT ROAD 3/4 MILE; EXIT ONLY			144		(OVERHEAD SIGN STRUCTURE)																											
5097	SHOULDER	3983+00	NB	D9-2	30	x	30	BLUE	HOSPITAL	6.25				(ATTACH TO SIGN STRUCTURE)																											
				S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																											
SHEET TOTALS										65	148	893	0	29		100	226	32	10	17	2	27	33	0	47	0	2	2	0	2	0										

- NOTES:
1. TRAFFIC SIGN INVENTORY COMPLETED ON 01/24/2018. CONDITIONS OF SIGNS MAY HAVE CHANGED SINCE INVENTORY COMPLETION.
 2. LOCATIONS OF SIGNS AND POST LENGTHS ARE APPROXIMATE. SEE STANDARDS S-614-1 AND S-614-8.
 3. ALL TUBULAR STEEL POSTS SHALL BE SELECTED USING S-614-8. S-614-50 IS USED FOR SELECTING THE DESIGN WIND SPEED FOR ALL OVERHEAD AND W-BEAM SIGNS.

Print Date: 10/15/2020
File Name: 21506TRAF_Sign Tab - S5M.dgn
Horiz. Scale: N/A
Vert. Scale: N/A



Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4

CJS

As Constructed		NORTH I-25 EXPRESS LANES			Project No./Code	
No Revisions:		SIGNING TABULATION			IM 0253-255	
Revised:		Designer:	T. Hurd	Structure		21506
		Detailer:	R. Kelzenberg	Numbers		
Void:		Sheet Subset:	SS TAB	Subset Sheets:	2 of 5	Sheet Number 495

NOTES:

1. TRAFFIC SIGN INVENTORY COMPLETED ON 01/24/2018. CONDITIONS OF SIGNS MAY HAVE CHANGED SINCE INVENTORY COMPLETION.
2. LOCATIONS OF SIGNS AND POST LENGTHS ARE APPROXIMATE. SEE STANDARDS S-614-1 AND S-614-8.
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Segment 5M - RFC - CDOT - 10.19.2020

Ryan.Kelzenberg
10/15/2020 4:36:04 PM
DGN MODEL:SIGN TAB 04
pw:\\scondh-pw.bentley.com\\rscondh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA SEG 5\\Traffic-ITS\\Drawings\\S&S\\21506TRAF_Sign Tab - S5M.dgn

TABULATION OF SIGNS																																	
SIGN NO.	LOCATION	STATION	DIRECTION	SIGN CODE	SIGN PANEL SIZE			BACKGROUND COLOR	LEGEND	SIGN PANEL (SF)			RESET SIGN PANEL	NO. POSTS	LENGTH OF POST(S)	SIGN STEEL POST			POST BASE			POST TYPE (LF)					CONCRETE FOOTING TYPE (EA)						
					CLASS I	CLASS II	CLASS III			2" P	2.5" P1	2.5" P2				2" P	2.5" P1	2.5" P2	W 6X12 BEAM	W 6X15 BEAM	W 8X21 BEAM	W 10X22 BEAM	W 10X26 BEAM	1	2	4	5	6					
															LF														LF	LF	EA	EA	EA
5144	SHOULDER	7037+12	SB	S-614-12	8	x	24	WHITE	STRUCTURE NUMBER	1.3				1	8		8			1													
5145	SHOULDER	7038+50	SB	D8-1	96	x	72	GREEN	WEIGH STATION 1 MILE			48		2	14		28			2													
5146	OVERHEAD	7038+50	SB	SPECIAL	132	x	96	WHITE	EXPRESS ONLY			88		(OVERHEAD SIGN STRUCTURE)																			
5147	MEDIAN	7038+50	SB	SPECIAL	30	x	36	WHITE	EXPRESS LANES N 25		7.5			(ATTACH TO SIGN STRUCTURE)																			
5149	MEDIAN	7042+50	SB	SPECIAL	48	x	84	WHITE	EXPRESS LANE; HOV 3+ NO TOLL WITH EXPRESSTOLL			28		2	16		32			2													
5150	SHOULDER	7042+50	SB	SPECIAL	96	x	60	WHITE	ALL TRUCKS MUST USE RIGHT LANE			40		2	14		28			2													
5151	SHOULDER	4042+40	NB	D10-3a	10	x	48	GREEN	MILE 268.5	3.4				1	10	10			1														
5152	SHOULDER	7042+80	SB	D10-3a	10	x	48	GREEN	MILE 268.5	3.4				1	10	10			1														
5153	SHOULDER	4044+89	NB	W4-1R	48	x	48	YELLOW	MERGE			16		1	12		12			1													
5154	SHOULDER	7046+50	SB	SPECIAL	84	x	84	WHITE	COMMERCIAL VEHICLES COMPLY			49		2	16			32			2												
5155	MEDIAN	7046+50	SB	SPECIAL	48	x	84	WHITE	EXPRESS LANE; \$25 SURCHARGE FOR 4+ AXLES			28		2	16		32			2													
5156	SHOULDER	4049+42	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				1	8	8			1														
5157	SHOULDER	7050+11	SB	E5-1a	96	x	60	GREEN	EXIT 268			40		2	14		28			2													
5158	MEDIAN	7050+50	SB	SPECIAL	48	x	84	WHITE	EXPRESS LANE; SURCHARGE FOR LICENSE PLATE TOLL			28		2	16		32			2													
5158A	SHOULDER	4050+15	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				1	8	8			1														
5158B	SHOULDER	7052+15	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				1	8	8			1														
5159	SHOULDER	7053+15	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				1	8	8			1														
5160	SHOULDER	4053+00	NB	M3-1	36	x	18	BLUE	NORTH		4.5			1	14		14			1													
			NB	M1-1a	36	x	36	BLUE	INTERSTATE 25		9			(ATTACH TO POST ABOVE)																			
5161	SHOULDER	7054+70	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																			
5162	OVERHEAD	7054+70	SB	SPECIAL	144	x	132	GREEN	EXIT 268 - PROSPECT ROAD; EXIT ONLY			132		(OVERHEAD SIGN STRUCTURE)																			
5163	SHOULDER	7055+20	SB	D5-2a	78	x	78	BLUE	REST AREA			42.3		2	16			32			2												
5164	OVERHEAD	7054+70	SB	SPECIAL	72	x	30	YELLOW	LEFT			15		(OVERHEAD SIGN STRUCTURE)																			
				SPECIAL	192	x	132	GREEN	TOLL; EXPRESS LANE ENTRANCE			176		(OVERHEAD SIGN STRUCTURE)																			
5165	OVERHEAD	4056+00	NB	SPECIAL	144	x	168	GREEN	EXT 269A - SH-14 EAST AULT 1/2 MILE; EXIT ONLY			168		(OVERHEAD SIGN STRUCTURE)																			
5166	OVERHEAD	4056+00	NB	SPECIAL	144	x	168	GREEN	EXT 269B - SH-14 WEST FT COLLINS 3/4 MILE			168		(OVERHEAD SIGN STRUCTURE)																			
5167	SHOULDER	4056+00	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																			
5168	SHOULDER	7059+00	SB	W13-2 (45)	36	x	48	YELLOW	EXT 45 MPH		12			1	12		12			1													
5169	MEDIAN	4060+50	NB	R2-1 (75)	48	x	60	WHITE	SPEED LIMIT 75 MPH		20			1	14		14			1													
5170	SHOULDER	4060+50	NB	R2-1 (75)	48	x	60	WHITE	SPEED LIMIT 75 MPH		20			1	14		14			1													
5171	SHOULDER	7064+00	SB	S-614-12	8	x	24	WHITE	STRUCTURE NUMBER	1.3				1	8	8			1														
5172	MEDIAN	4063+77	NB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8	8			1														
5173	SHOULDER	4064+05	NB	S-614-12	8	x	24	WHITE	STRUCTURE NUMBER	1.3				1	8	8			1														
5174	OVERHEAD	7065+00	SB	SPECIAL	264	x	192	WHITE	VTMS			352		(OVERHEAD SIGN STRUCTURE)																			
5175	MEDIAN	7065+00	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																			
5176	SHOULDER	4065+00	NB	D9-7	30	x	30	BLUE	GAS	6.3				1	14		14			1													
				D9-8	30	x	30	BLUE	FOOD	6.3				(ATTACH TO U-BRACKET AND ATTACH TO POST ABOVE)																			
				D9-9	30	x	30	BLUE	LODGING	6.3				(ATTACH TO U-BRACKET AND ATTACH TO POST ABOVE)																			
				SPECIAL	30	x	24	BLUE	NEXT 2 EXITS	5				(ATTACH TO POST ABOVE)																			
5177	SHOULDER	4068+00	NB	SPECIAL	144	x	144	GREEN	EXIT 269B - TO US-287 LARAMIE - SECOND RIGHT			144													44					2			
5178	SHOULDER	7069+00	SB	SPECIAL	144	x	168	BLUE	EXIT 268 - REST AREA - COLORADO WELCOME CENTER			168													47					2			
5179	MEDIAN	4068+77	NB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8	8			1														
5180	MEDIAN	7069+27	SB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8	8			1														
5181	MEDIAN (BACK-BACK)	4069+08	SB	R11-50	24	x	30	WHITE	EMERGENCY AND AUTHORIZED VEHICLES ONLY	5				1	12	12			1														
			NB	R3-4	24	x	24	WHITE	NO U-TURN	4				(ATTACH TO POST ABOVE)																			
5182	MEDIAN (BACK-BACK)	7069+83	NB	R11-50	24	x	30	WHITE	EMERGENCY AND AUTHORIZED VEHICLES ONLY	5				1	12	12			1														
			SB	R3-4	24	x	24	WHITE	NO U-TURN	4				(ATTACH TO POST ABOVE)																			
5183	MEDIAN	4069+67	NB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8	8			1														
5184	MEDIAN	7070+22	SB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8	8			1														
5185	SHOULDER	4070+00	NB	D10-3	10	x	36	GREEN	MILE 269	2.5				1	8	8			1														
5186	SHOULDER	7070+41	SB	D10-3	10	x	36	GREEN	MILE 269	2.5				1	8	8			1														
SHEET TOTALS										83	169	1634	0	40		156	260	64	18	18	4	0	0	0	91	0	0	0	0	4	0		

- NOTES:
1. TRAFFIC SIGN INVENTORY COMPLETED ON 01/24/2018. CONDITIONS OF SIGNS MAY HAVE CHANGED SINCE INVENTORY COMPLETION.
 2. LOCATIONS OF SIGNS AND POST LENGTHS ARE APPROXIMATE. SEE STANDARDS S-614-1 AND S-614-8.
 3. ALL TUBULAR STEEL POSTS SHALL BE SELECTED USING S-614-8. S-614-50 IS USED FOR SELECTING THE DESIGN WIND SPEED FOR ALL OVERHEAD AND W-BEAM SIGNS.

Print Date: 10/15/2020
File Name: 21506TRAF_Sign Tab - S5M.dgn
Horiz. Scale: N/A Vert. Scale: N/A



Sheet Revisions		
Date:	Comments	Init.



Region 4

10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

CJS

As Constructed	NORTH I-25 EXPRESS LANES		Project No./Code
No Revisions:	SIGNING TABULATION		IM 0253-255
Revised:	Designer: T. Hurd	Structure Numbers	21506
Void:	Detailer: R. Kelzenberg	Sheet Subset: SS TAB	Sheet Number 497
		Subset Sheets: 4 of 5	

Segment 5M - RFC - CDOT - 10.19.2020

Ryan.Kelzenberg
10/15/2020 4:36:12 PM
DGN MODEL:SIGN TAB 05
pw:\\scondh-pw.bentley.com\\rscondh-pw-01\\Documents\\Transportation\\Projects\\21506 - North I-25 (CDOT)\\MIRA SEG 5\\Traffic-ITS\\Drawings\\S&S\\21506TRAF_Sign Tab - S5M.dgn

Print Date: 10/15/2020

File Name: 21506TRAF_Sign Tab - S5M.dgn

Horiz. Scale: N/A

Vert. Scale: N/A

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apexdesign

KRAEMER

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

CDOT

CO

10601 West 10th Street
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Phone: (970)-350-2205 FAX: (970)339-9530

Region 4

CJS

As Constructed
No Revisions:
Revised:
Void:

NORTH I-25 EXPRESS LANES

SIGNING TABULATION

Designer: T. Hurd

Detailer: R. Kelzenberg

Sheet Subset: SS TAB

Structure Numbers

Subset Sheets: 5 of 5

Project No./Code
IM 0253-255
21506
Sheet Number 498

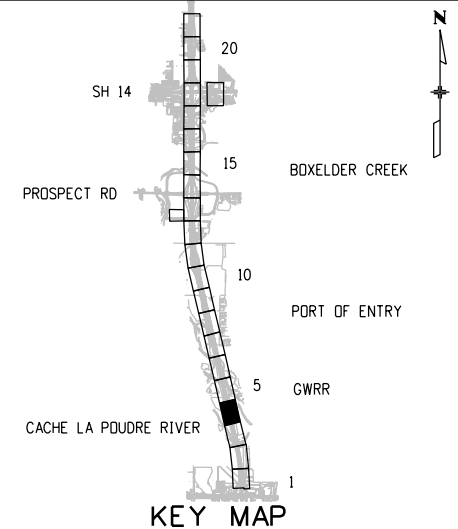
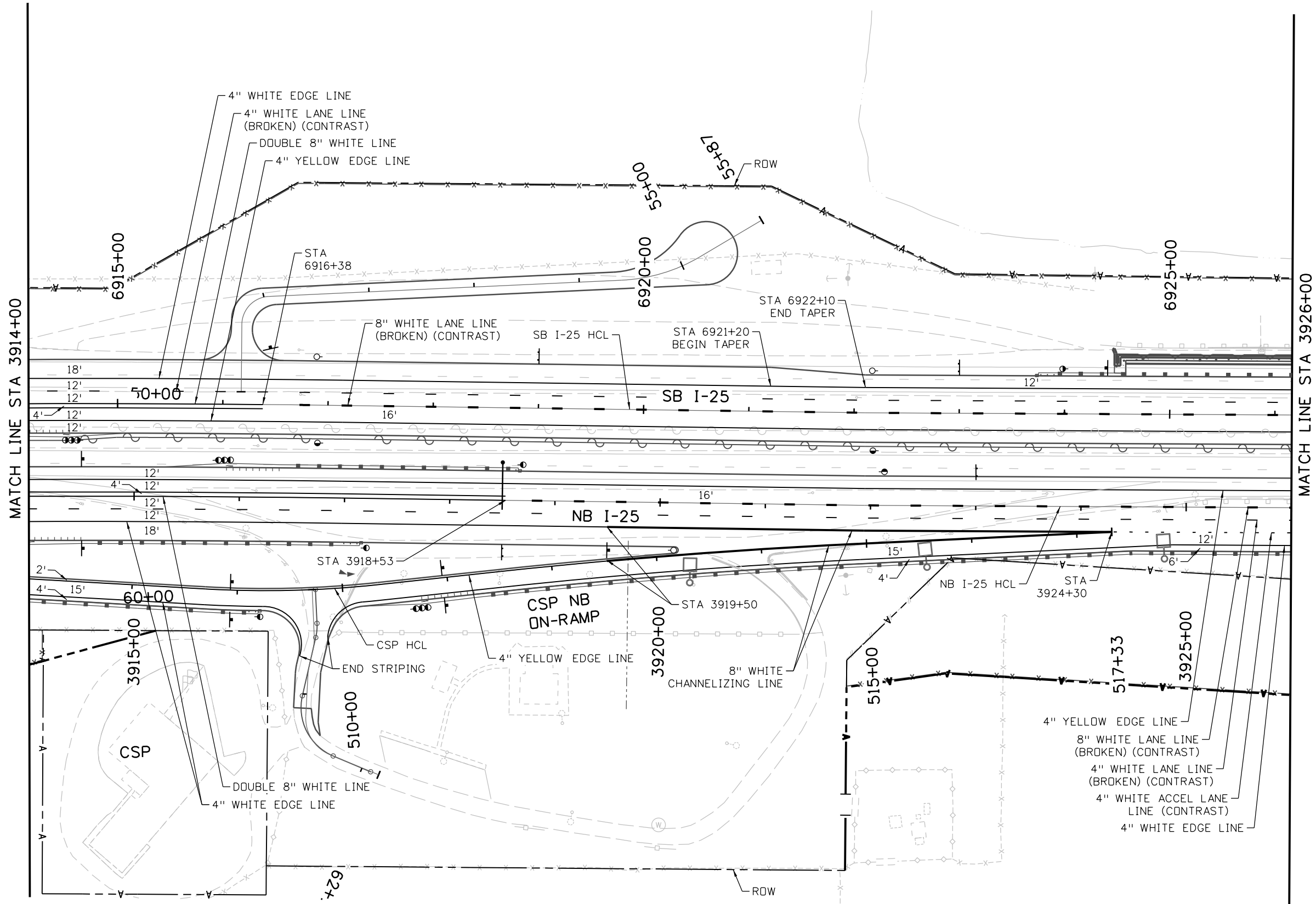
TABULATION OF SIGNS

SIGN NO.	LOCATION	STATION	DIRECTION	SIGN CODE	SIGN PANEL SIZE			BACKGROUND COLOR	LEGEND	SIGN PANEL (SF)			RESET SIGN PANEL	NO. POSTS	LENGTH OF POST(S)	SIGN STEEL POST			POST BASE			POST TYPE (LF)					CONCRETE FOOTING TYPE (EA)					
					CLASS I	CLASS II	CLASS III			2" P	2.5" P1	2.5" P2				2" P	2.5" P1	2.5" P2	W 6X12 BEAM	W 6X15 BEAM	W 8X21 BEAM	W 10X22 BEAM	W 10X26 BEAM	1	2	4	5	6				
																													W"	x	H"	
5187	SHOULDER	4071+00	NB	D50-1c	36	x	36	PURPLE	ADOPT A HIGHWAY		9			1	14		14			1												
				SPECIAL	36	x	18	PURPLE	EMPLOYEES OF ORGANIC ALTERNATIVES DISPENSARY		4.5			(ATTACH TO POST ABOVE)																		
5188	SHOULDER	7073+00	SB	R2-1 (75)	48	x	60	WHITE	SPEED LIMIT 75 MPH		20			1	14		14			1												
5189	MEDIAN	7073+00	SB	R2-1 (75)	48	x	60	WHITE	SPEED LIMIT 75 MPH		20			1	14		14			1												
5190	MEDIAN	4073+00	NB	SPECIAL	60	x	60	WHITE	I-25 NB CLOSED AT WELLINGTON EXIT 278		25			(RESET EXISTING POST AND FLASHING BEACON)																		
5191	SHOULDER	4073+00	NB	SPECIAL	60	x	60	WHITE	I-25 NB CLOSED AT WELLINGTON EXIT 278		25			(RESET EXISTING POST AND FLASHING BEACON)																		
5192	MEDIAN	7075+22	SB	S-612-01	12	x	36	BLACK	CROSSOVER MARKER	3				1	8		8			1												
5193	SHOULDER	4075+00	NB	W13-2 (35)	36	x	48	YELLOW	EXIT 35 MPH		12			1	12		12			1												
5194	SHOULDER	7077+00	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5195	OVERHEAD	7077+00	SB	SPECIAL	144	x	144	GREEN	EXT 268 - PROSPECT ROAD 1/2 MILE; EXIT ONLY			144		(OVERHEAD SIGN STRUCTURE)																		
				SPECIAL	72	x	30	YELLOW	LEFT			15		(OVERHEAD SIGN STRUCTURE)																		
5196	OVERHEAD	7077+00	SB	SPECIAL	156	x	156	YELLOW	TOLL; EXPRESS LANE ENTRANCE 1/2 MILE			169		(OVERHEAD SIGN STRUCTURE)																		
5197	E FRONTAGE RD	N/A	SB	OM4-1	18	x	18	RED	END OF ROADWAY OBJECT MARKER	3				1	8		8			1												
5198	E FRONTAGE RD	N/A	SB	OM4-1	18	x	18	RED	END OF ROADWAY OBJECT MARKER	3				1	8		8			1												
5199	E FRONTAGE RD	N/A	SB	OM4-1	18	x	18	RED	END OF ROADWAY OBJECT MARKER	3				1	8		8			1												
5200	SHOULDER	7078+00	SB	M3-3	36	x	18	BLUE	SOUTH		4.5			1	14		14			1												
				M1-1a	36	x	36	BLUE	INTERSTATE 25		9			(ATTACH TO POST ABOVE)																		
5201	OVERHEAD	4079+00	NB	SPECIAL	144	x	144	GREEN	EXIT 269B - SH-14 WEST FT COLLINS 1/4 MILE			144		(OVERHEAD SIGN STRUCTURE)																		
5202	OVERHEAD	4079+00	NB	SPECIAL	144	x	144	GREEN	EXIT 269A - SH-14 EAST AULT; EXIT ONLY			144		(OVERHEAD SIGN STRUCTURE)																		
5203	SHOULDER	4079+00	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
				SPECIAL	132	x	30	GREEN	EXIT 269B			27.5		(OVERHEAD SIGN STRUCTURE)																		
5204	OVERHEAD	4088+00	NB	SPECIAL	180	x	96	GREEN	SH-14 WEST FT COLLINS			120		(OVERHEAD SIGN STRUCTURE)																		
5205	SHOULDER	4088+00	NB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5206	SHOULDER	7090+40	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5207	OVERHEAD	7090+40	SB	SPECIAL	144	x	120	GREEN	EXIT 269A - SH-14 EAST AULT			120		(OVERHEAD SIGN STRUCTURE)																		
5208	OVERHEAD	7090+40	SB	SPECIAL	144	x	108	WHITE	HOV 3+ (3 OR MORE PERSONS PER VEHICLE)			108		(OVERHEAD SIGN STRUCTURE)																		
5208A	FRONTAGE RD	N/A	SB	36W14-2	36	x	36	YELLOW	NO OUTLET		9			1	10		10			1												
5208B	FRONTAGE RD	N/A	WB	36W14-2aL	36	x	8	YELLOW	NO OUTLET (LEFT ARROW)	2				(ATTACH TO EX MAST ARM POLE)																		
5208C	FRONTAGE RD	N/A	EB	36W14-2aR	36	x	8	YELLOW	NO OUTLET (RIGHT ARROW)	2				(ATTACH TO EX MAST ARM POLE)																		
5209	OVERHEAD	7101+15	SB	SPECIAL	132	x	144	GREEN	EXIT 269A - SH-14 EAST AULT 1/4 MILE			132		(OVERHEAD SIGN STRUCTURE)																		
5210	SHOULDER	7101+15	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5211	OVERHEAD	7101+15	SB	SPECIAL	180	x	144	GREEN	EXIT 269B - SH-14 WEST FT COLLINS			180		(OVERHEAD SIGN STRUCTURE)																		
5212	OVERHEAD	7101+15	SB	SPECIAL	132	x	144	GREEN	EXIT 268 - PROSPECT ROAD 1 MILE			132		(OVERHEAD SIGN STRUCTURE)																		
				SPECIAL	72	x	30	YELLOW	LEFT			15		(OVERHEAD SIGN STRUCTURE)																		
5213	OVERHEAD	7109+30	SB	SPECIAL	156	x	156	GREEN	TOLL; EXPRESS LANE ENTRANCE 1 MILE			169		(OVERHEAD SIGN STRUCTURE)																		
5214	MEDIAN	7109+30	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5215	SHOULDER	7126+00	SB	S-614-12	12	x	18	WHITE	STRUCTURE NUMBER	1.5				(ATTACH TO SIGN STRUCTURE - SEE CDOT S-614-12)																		
5216	OVERHEAD	7126+00	SB	SPECIAL	168	x	168	GREEN	EXITS 269 B-A - SH-14 FT COLLINS AULT 1/2 MILE			196		(OVERHEAD SIGN STRUCTURE)																		
SHEET TOTALS										27	138	1816	0	10		32	78	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0
PROJECT TOTALS										282	1139	7280	0	167		446	1450	172	50	106	11	27	166	41	138	47	2	10	2	6	2	

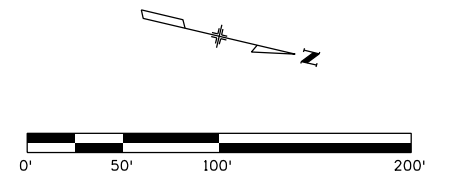
- NOTES:
1. TRAFFIC SIGN INVENTORY COMPLETED ON 01/24/2018. CONDITIONS OF SIGNS MAY HAVE CHANGED SINCE INVENTORY COMPLETION.
 2. LOCATIONS OF SIGNS AND POST LENGTHS ARE APPROXIMATE. SEE STANDARDS S-614-1 AND S-614-8.
 3. ALL TUBULAR STEEL POSTS SHALL BE SELECTED USING S-614-8. S-614-50 IS USED FOR SELECTING THE DESIGN WIND SPEED FOR ALL OVERHEAD AND W-BEAM SIGNS.

Segment 5M - RFC - CDOT - 10.19.2020

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NOTES:
1. SEE SUBSET SHEET 4 FOR THE SIGNING PLAN SHEET.



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Region 4 CJS

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No Revisions:
Revised:
Void:

NORTH I-25 EXPRESS LANES NB & SB I-25 SIGNING & STRIPING PLAN		
Designer:	T. Hurd	Structure
Detailer:	R. Kelzenberg	Numbers
Sheet Subset:	SS	Subset Sheets: 4 A of 21

Project No./Code
IM 0253-255
21506
Sheet Number 504

tony.hurd
10/19/2020 2:54:01 PM
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MATCH LINE STA 3926+00

MATCH LINE STA 3938+00

(5041)
SPECIAL
LOCAL
EXIT
Harmony
Road

(5043)
SPECIAL
EXIT 265
Horsetooth
Reservoir
NEXT RIGHT

RESET
(BY OTHERS)
FOOD - EXIT 265

(5047A)
SEE S-614-12
R025A
2
6
6
3
0
3
MLA

(5051)
SEE S-614-12
B
17
DX
266.44

\$1000 FINE
FOR
LITTERING
ENFORCED
48R51-1
(5045)

EXPRESS
LANE
\$25
SURCHARGE
FOR
4+ AXLES
SPECIAL
(5042A)

ALL TRUCKS
COMMERCIAL
VEHICLES
NEXT RIGHT

120R13-1a
(5042)

EXPRESS
LANE
HOV 3+
NO TOLL
WITH
Express
SPECIAL
(5046)

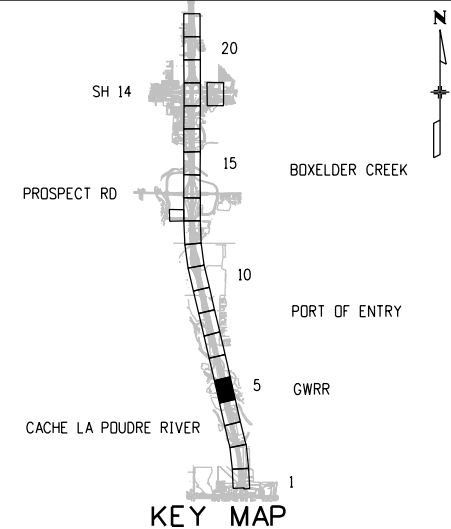
B
17
DW
266.44
SEE S-614-12
(5047)

PAVEMENT
ENDS
36W8-3
(5048)
100+00

SPEED
LIMIT
45
24R2-1(45)
(5049)

20
M.P.H.
30W1-2L
18W13-1P(20)
(5050)

SUB TO COORDINATE WALL
CONSTRUCTION WITH SIGN
CONTRACTOR FOOTINGS

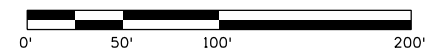


NOTES:

1. SEE SUBSET SHEET 5A FOR THE STRIPING PLAN SHEET.

(A)
R025A
2
6
6
3
0
3
RRA
SEE S-614-12
(5044)

(B)
R025A
2
6
6
3
0
8
4
RRA
SEE S-614-12
(5047B)



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NORTH I-25 EXPRESS LANES
NB & SB I-25
SIGNING & STRIPING PLAN

Designer: T. Hurd
Detailer: R. Kelzenberg
Sheet Subset: SS

Structure
Numbers

Subset Sheets: 5 of 21

Project No./Code

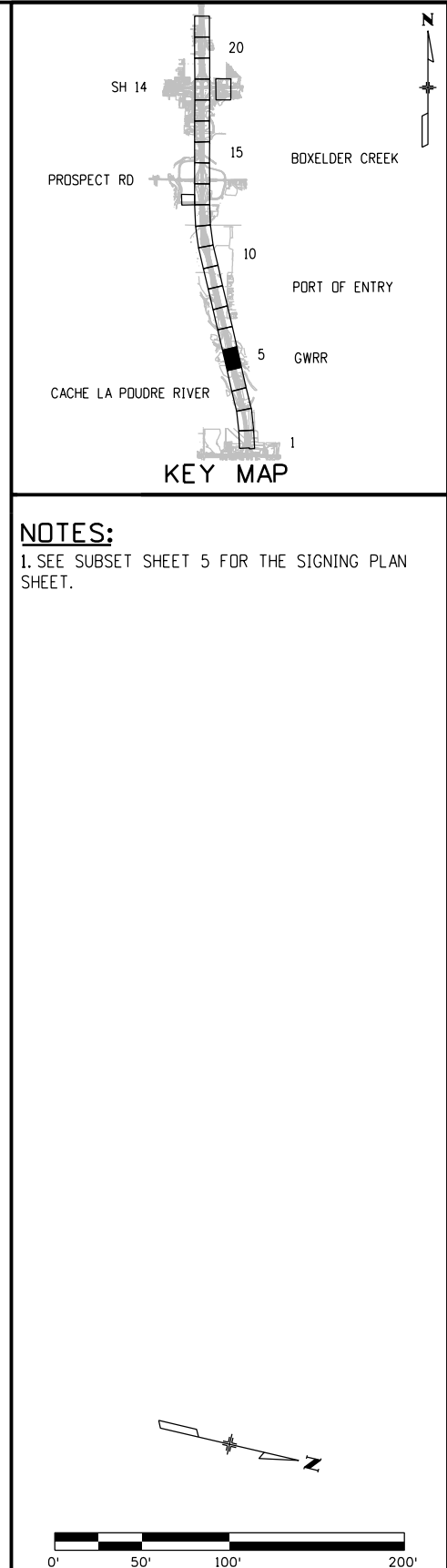
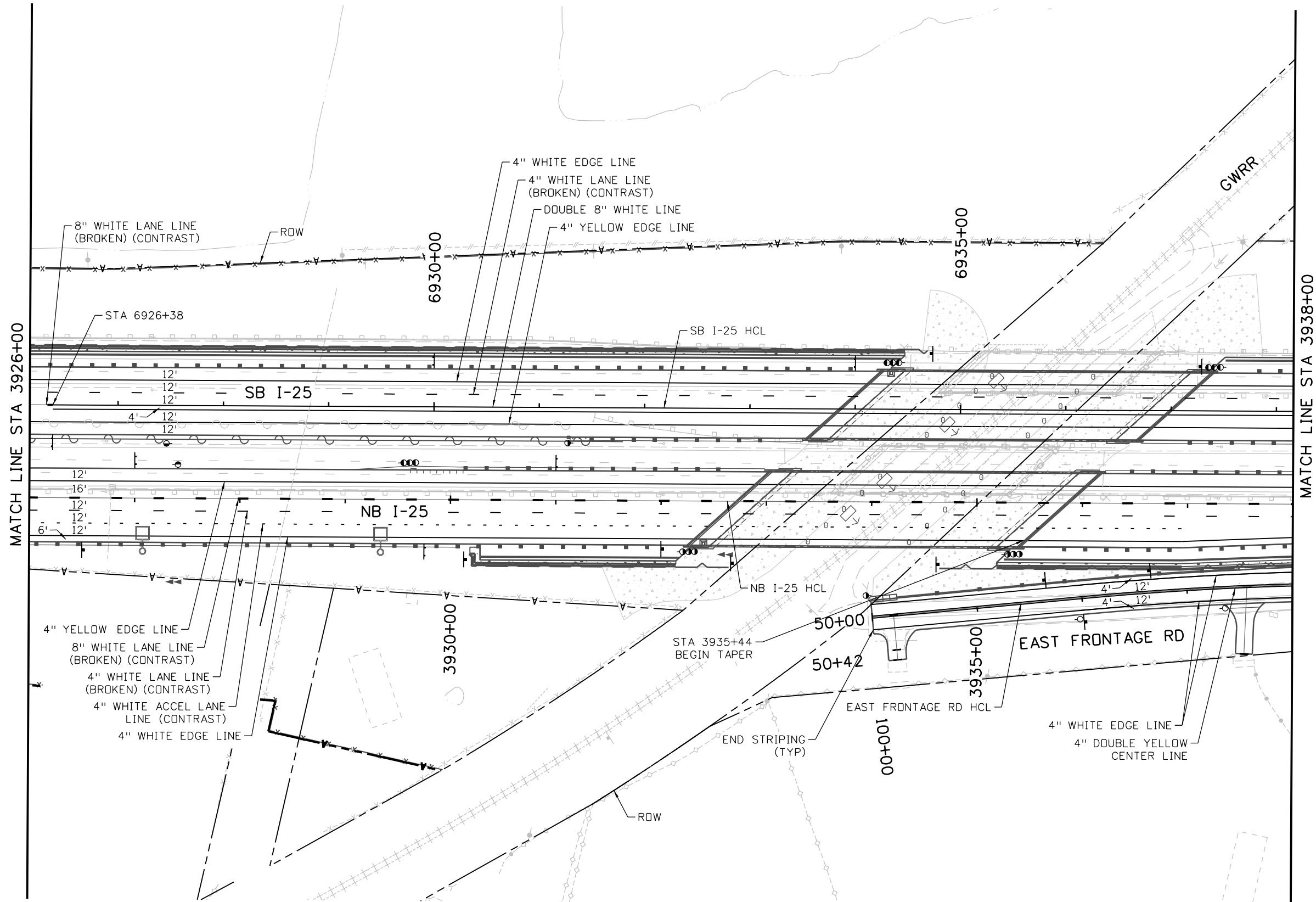
IM 0253-255

21506

Sheet Number 505

Segment 5M - RFC - CDOT - 10.19.2020

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Print Date: 10/19/2020
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NORTH I-25 EXPRESS LANES NB & SB I-25 SIGNING & STRIPING PLAN

Designer: T. Hurd
Detailer: R. Kelzenberg
Sheet Subset: SS

Structure
Numbers

Subset Sheets: 5A of 21

Project No./Code

IM 0253-255

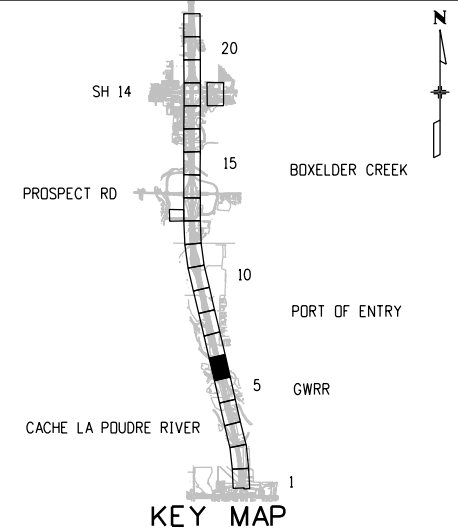
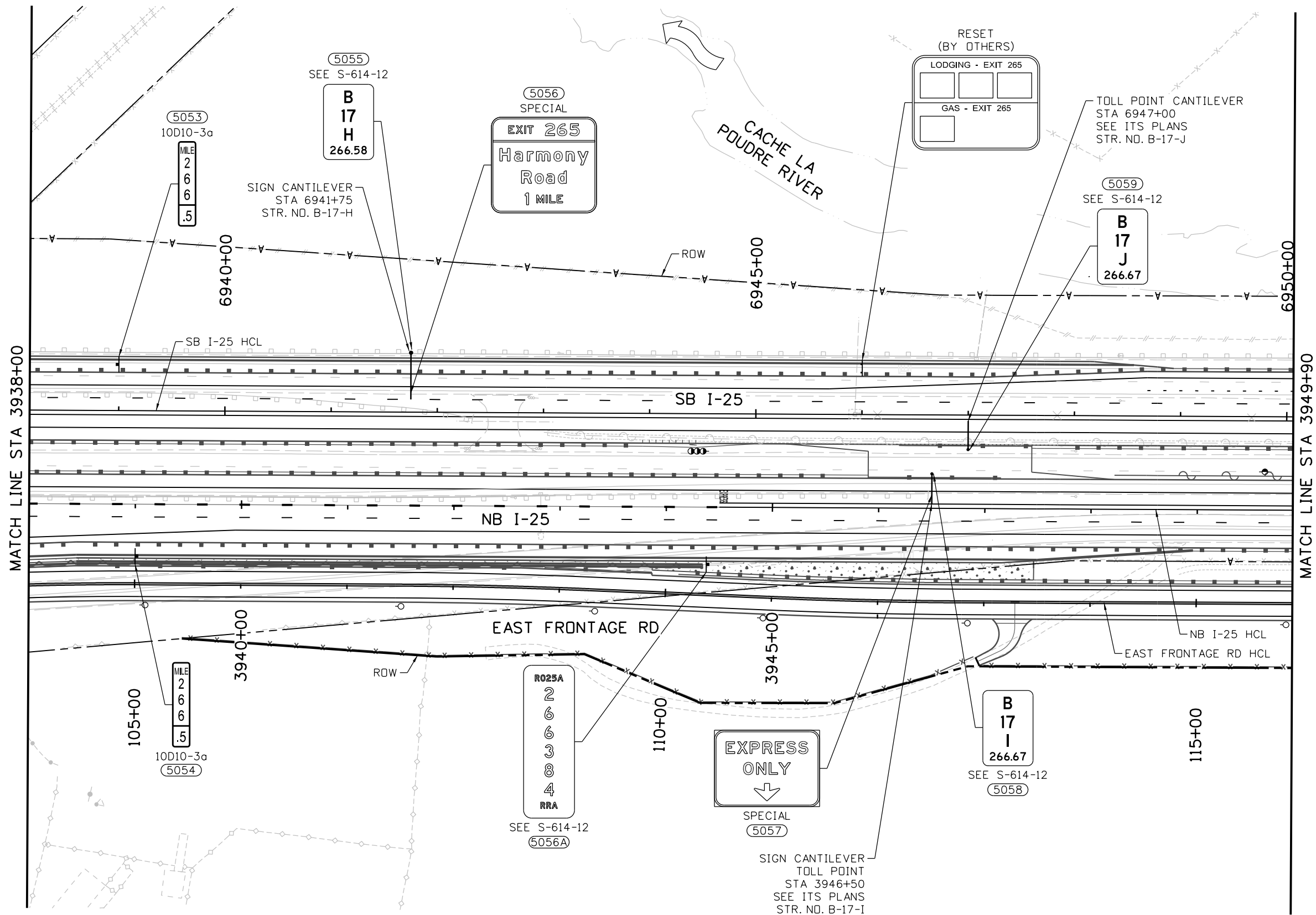
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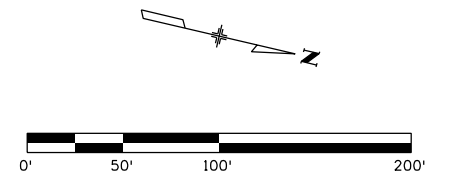
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Segment 5M - RFC - CDOT - 10.19.2020

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NOTES:
1. SEE SUBSET SHEET 6A FOR THE STRIPING PLAN SHEET.



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NORTH I-25 EXPRESS LANES
NB & SB I-25
SIGNING & STRIPING PLAN

Designer: T. Hurd
Detailer: R. Kelzenberg
Sheet Subset: SS

Structure
Numbers

Subset Sheets: 6 of 21

Project No./Code

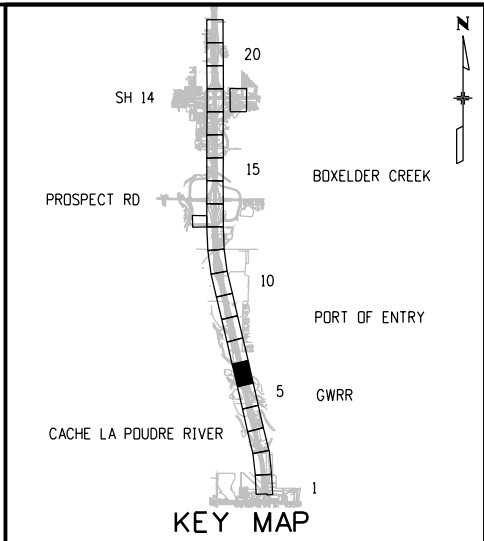
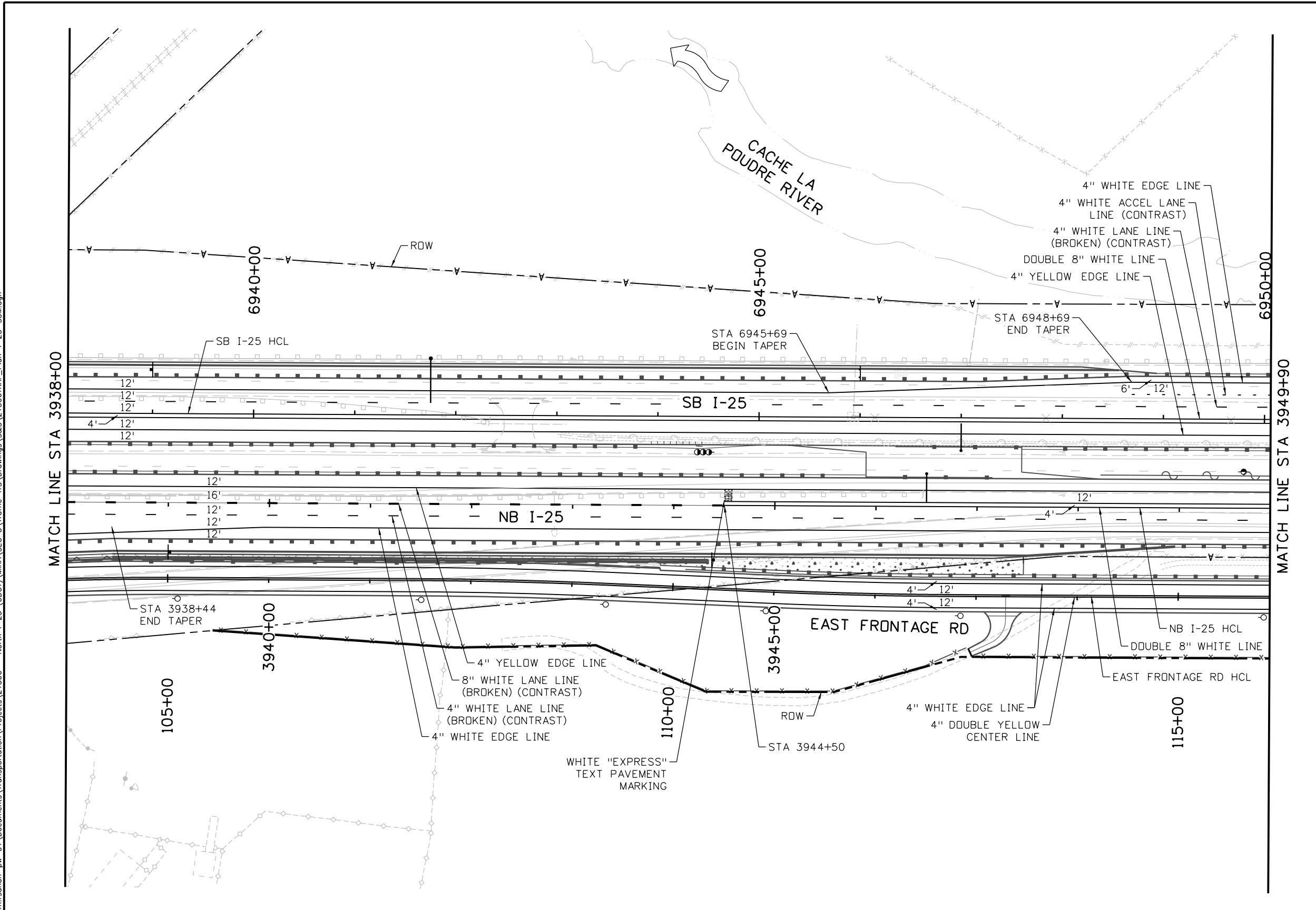
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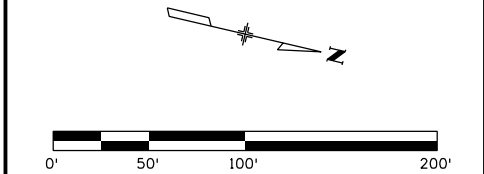
Sheet Number 507

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NOTES:
1. SEE SUBSET SHEET 6 FOR THE SIGNING PLAN SHEET.



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Region 4 **CJS**

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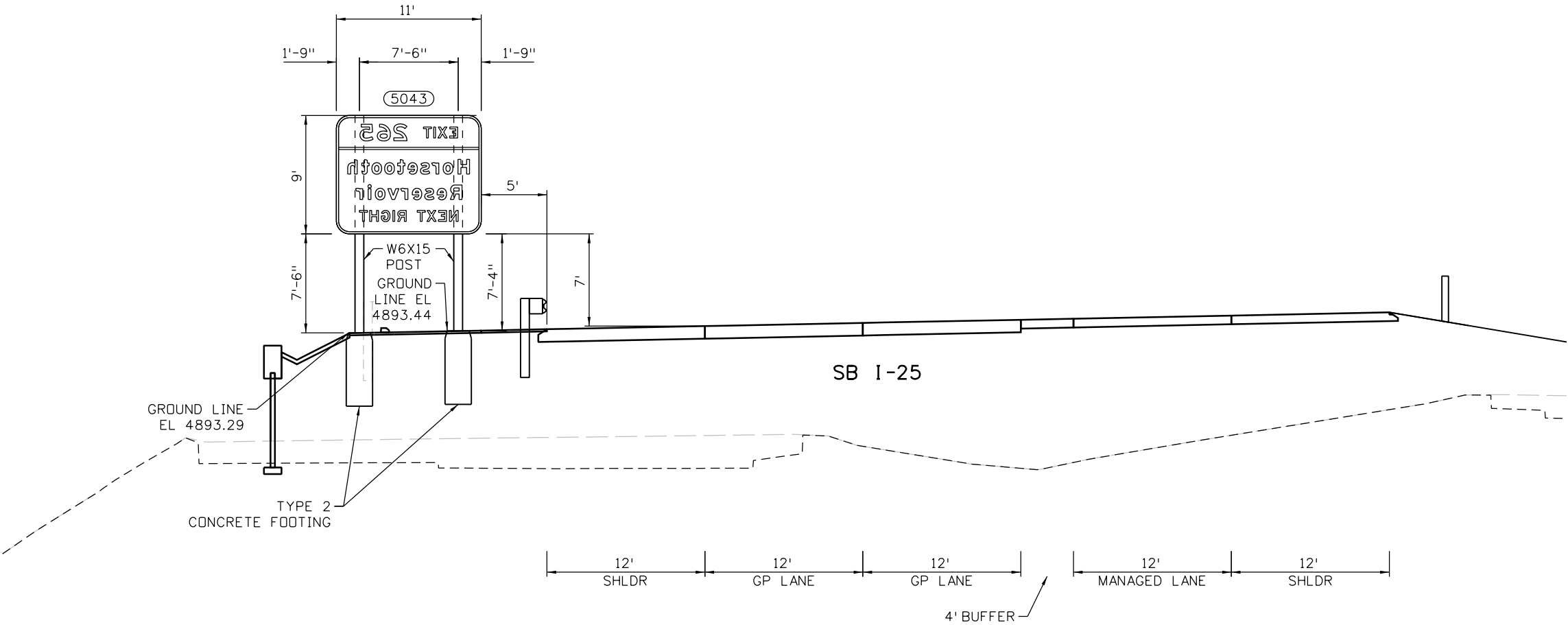
NORTH I-25 EXPRESS LANES NB & SB I-25 SIGNING & STRIPING PLAN			
Designer:	T. Hurd	Structure	
Detailer:	R. Kelzenberg	Numbers	
Sheet Subset:	SS	Subset Sheets:	6A of 21

Project No./Code
IM 0253-255
21506
Sheet Number
508

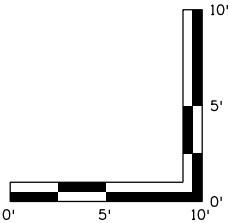
NOTES:

1. DESIGN WIND SPEED OF 80 MPH USED PER THE PROCEDURE TO DETERMINE THE DESIGN WIND SPEED FROM CDDT STANDARD S-614-50.
2. INSTALLATION PER CDDT STANDARDS S-614-1, S-614-4, S-614-5, AND S-614-6.
3. CONTRACTOR TO POTHOLE THE LOCATION OF THE CAISSON FOUNDATION PRIOR TO ORDERING GROUND SIGN STRUCTURE COMPONENTS TO IDENTIFY ANY REQUIRED ADJUSTMENTS TO FIELD CONDITIONS OR CONFLICTS WITH UTILITIES.
4. ELEVATIONS SHOWN ARE APPROXIMATE BASED ON SURVEY. FIELD VERIFY PRIOR TO BEGINNING ANY CONSTRUCTION AND NOTIFY THE CONTRACTOR'S ENGINEER IF THERE IS A DISCREPANCY OF ± 6".

SEE NOTE ON SHEET 505



I-25 STA. 6930+00
LOOKING IN NB DIRECTION OF TRAFFIC



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NORTH I-25 EXPRESS LANES

NB & SB I-25

SIGN STRUCTURE ELEVATION

Designer: T. Hurd

Detailer: R. Kelzenberg

Sheet Subset: SS XSECT

Subset Sheets: 5 of 35

Project No./Code

IM 0253-255

21506

Sheet Number 544

Ryan Kelzenberg
10/15/2020 4:40:03 PM
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ITS GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION'S (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION, CDOT'S STANDARD PLANS, M & S STANDARD PLANS, 2012 EDITION, THE NATIONAL ELECTRIC CODE AND THE CONTRACT DOCUMENTS.

2. ITS SYMBOLS ARE NOT TO SCALE AND HAVE BEEN ENLARGED FOR CLARITY.

3. NOTIFY CONTRACTOR'S ENGINEER IMMEDIATELY OF ANY APPARENT DESIGN CONFLICTS IN THE FIELD.

4. COORDINATE ALL CONSTRUCTION TO AVOID UTILITY CONFLICTS AND CONFLICTS THAT MAY AFFECT THE PERFORMANCE OF THE EXISTING ITS DEVICES WITH THE CORRESPONDING AGENCY BEFORE PERFORMING WORK.

5. ALL WORK SHALL BE PER THE MANUFACTURER'S INSTRUCTION AND RECOMMENDATIONS.

6. MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS DEVICES, UNLESS TEMPORARY OR PERMANENT DEVICES HAVE BEEN SUBSTITUTED. REFER TO BOOK 2, SECTION 19 REQUIREMENTS FOR ADVANCE NOTIFICATION PRIOR TO WORK ON EXISTING ITS DEVICES.

7. CONTRACTOR SHALL REFER TO THE REVISION OF SECTION 614 DISINCENTIVE FOR ITS OFFLINE DEVICES FOR ALLOWABLE DOWNTIME FOR ITS DEVICES. ALL POWER, COMMUNICATION AND INFRASTRUCTURE SHALL BE IN PLACE FOR THE PROPOSED LOCATION OF A RELOCATED DEVICE BEFORE THE EXISTING DEVICE IS REMOVED.

8. THE LOCATION OF EXISTING AND PROPOSED CONDUITS AND PULL BOXES FOR COMMUNICATIONS AND POWER SHOWN ON THE PLANS ARE APPROXIMATE AND NOT TO SCALE.

9. USE INSTALLATION METHODS THAT WILL ENSURE THE SAFETY AND PROTECTION OF EQUIPMENT, PERSONNEL, EXISTING FEATURES, AND THE TRAVELING PUBLIC.

10. FIBER OPTIC BACKBONE CONDUIT SHALL NOT BE LOCATED IN THE TRAVELED WAY (WITH THE EXCEPTION OF CROSSINGS), UNLESS OTHERWISE INDICATED ON THE PLANS. INSTALL CONDUIT BEFORE SIDEWALK IS CONSTRUCTED AT SITES WHERE APPLICABLE, OTHERWISE BORING IS REQUIRED.

11. MINIMIZE DISTURBANCE TO THE FINAL LANDSCAPING BY BORING UNDER OR TRENCHING AROUND.

12. USE THE FOLLOWING CONDUIT COLORS IN THE BACKBONE DUCT BANK SO THAT THE CONTENTS CAN BE EASILY IDENTIFIED:

A. RED – CDOT BACKBONE CONDUIT

B. GREEN – CDOT BACKBONE CONDUIT

C. BLUE – CDOT BACKBONE CONDUIT

D. TERRA COTTA – CDOT COMMUNICATIONS LATERAL CONDUIT

E. BLACK WITH RED STRIPE – CDOT POWER LATERAL CONDUIT

13. CDOT BACKBONE FIBER TO BE PULLED INTO BLUE CDOT BACKBONE CONDUIT.

14. ALL POWER AND COMMUNICATIONS CONDUIT SHALL BE SCHEDULE 80 HDPE OR PVC PER REQUIREMENTS.

15. FURNISH AND INSTALL WATERTIGHT, REMOVABLE CONDUIT PLUGS AT ALL CONDUIT ENDS IMMEDIATELY FOLLOWING CONDUIT INSTALLATION.

16. RESTORE ALL SURFACE MATERIALS TO PRECONSTRUCTION CONDITIONS FOR SURFACES INCLUDING, BUT NOT LIMITED TO PAVEMENT, SIDEWALKS, SPRINKLER SYSTEMS, LANDSCAPING, SHRUBS, SOD OR NATIVE VEGETATION THAT IS DISTURBED BY THE WORK, UNLESS A CONCURRENT PROJECT HAS A DIFFERENT APPROVED LANDSCAPING PLAN FOR THE AFFECTED AREA.

17. INSTALL ITS DEVICES AND ELEMENTS OUTSIDE OF WETLAND AREAS UNLESS OTHERWISE DIRECTED BY CDOT.

18. OBTAIN ALL NECESSARY PERMITS BEFORE CONDUCTING SITE WORK.

19. DO NOT PLACE PULL BOXES OR MANHOLES IN PONDS, DITCHES AND DRAINAGE CHANNELS.

20. ADJUSTMENTS TO PULL BOX AND MANHOLE LOCATIONS UP TO A LATERAL DISTANCE OF 5 FEET OR A LONGITUDINAL DISTANCE OF 10 FEET MAY BE MADE DURING CONSTRUCTION BASED ON FIELD CONDITIONS. OBTAIN APPROVAL FROM CONTRACTOR'S ENGINEER BEFORE MAKING ADJUSTMENTS THAT EXCEED THOSE DISTANCES FOR PULL BOXES AND MANHOLES AND FOR ANY ADJUSTMENTS TO ITS DEVICE LOCATIONS USING THE NDC/FDC PROCESS.
21. THE CONTRACTOR SHALL REMOVE AND SALVAGE TO CDOT ITS ALL EXISTING COMMUNICATION EQUIPMENT AND ELECTRICAL EQUIPMENT THAT IS REMOVED BY THIS PROJECT AND NO LONGER IN USE. CABLING NOTED TO BE REMOVED ON THE PLANS SHALL BE DISPOSED OF BY THE CONTRACTOR.

22. WHERE IT IS REQUIRED TO CUT EXISTING PAVEMENT, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE TO THE DESIRED DEPTH WITH A PAVEMENT CUTTING SAW OR OTHER METHOD AS APPROVED BY CDOT.

23. EXERCISE ALL APPROPRIATE SAFETY MEASURES WHEN WORKING IN OR AROUND AREAS OF OVERHEAD ELECTRICAL/TRANSMISSION LINES OR UNDERGROUND UTILITIES.

24. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL FEATURES, INCLUDING ALL UNDERGROUND AND ABOVE GROUND UTILITIES, PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ALL UTILITY INFORMATION. FOR UTILITY CONSTRUCTION COORDINATION, THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987 AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, NOT INCLUDING ACTUAL DAY OF WORK.

25. POTHOLING WILL BE REQUIRED FOR CONSTRUCTION ACTIVITIES ON THIS PROJECT. THE CONTRACTOR SHALL LOCATE AND POTHOLE ALL POTENTIAL CONFLICTS WITH EXISTING BURIED UTILITY FACILITIES WITHIN THE PROPOSED CONSTRUCTION LIMITS. IF A POTENTIAL CONFLICT EXISTS, AN RFI AND/OR FDC, AS NECESSARY, WILL BE ISSUED TO MODIFY THE DESIGN.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ONSITE DURING POTHOLING. THE CONTRACTOR SHALL REFER TO THE UTILITY PLANS AND/OR SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

27. ALL ABOVE GROUND ITS EQUIPMENT SHALL BE LOCATED A MINIMUM OF 3 FEET CLEAR OF BACK OF GUARDRAIL POSTS.

28. ORIENT CABINETS SUCH THAT DOORS OPEN PARALLEL TO TRAFFIC. WHERE POSSIBLE, CABINETS SHALL BE ORIENTED SUCH THAT PERSONNEL WORKING IN THE CABINETS SHALL HAVE DIRECT LINE OF SIGHT WITH ONCOMING TRAFFIC.

29. GRADE A RELATIVELY FLAT 4' x 4' AREA IN FRONT OF ALL ITS CABINET OPENINGS FOR MAINTENANCE ACCESS.

30. AT CABINETS CONTAINING FIBER OPTIC TERMINATION PANELS, INSTALL FIBER OPTIC PATCH CABLES WITH NO MORE THAN 4 FEET OF SLACK CABLE. USE APPROPRIATE CABLE MANAGEMENT.

31. THE CONTRACTOR SHALL COIL 50 LF OF EACH FIBER OPTIC CABLE IN PULL BOXES, 100 LF IN MANHOLES (NOT INCLUDING FIBER IN SPLICE ENCLOSURE), 10 LF AT GROUND-MOUNTED CABINETS AND 20 LF AT POLE-MOUNTED CABINETS. AN ADDITIONAL 100 LF OF FIBER OPTIC CABLE (SINGLE MODE) (12 FIBER) NEEDS TO BE COILED WITHIN THE MANHOLE AT EVERY CWDM SPLICE LOCATION BETWEEN THE TWO SPLICE ENCLOSURES (SEE FIBER OPTIC SPLICING DETAIL - CWDM SPLICING FOR MORE INFORMATION).

32. PERMANENT INSTALLATIONS ARE SHOWN ON PLAN SHEETS. ANY TEMPORARY INSTALLATIONS WILL BE SHOWN ON TEMPORARY COMMUNICATIONS AND DEVICE PLANS.

33. SPLICE THE FIBER OPTIC CABLE ONLY AT APPROVED SPLICE LOCATIONS AS SHOWN IN THE PLANS AND SPLICE DETAILS.

34. CCTV, LOWERING DEVICE AND ARM SHALL NOT BE LESS THAN 90 DEGREES IN EITHER DIRECTION FROM THE HANDHOLES ON THE LOWERING DEVICE POLE.

35. FOR NETWORK RELATED EQUIPMENT INSTALLATIONS WITHIN THE INTERIOR OF COMMUNICATION CABINETS AND VARIABLE MESSAGE SIGNS (VMS), THE CONTRACTOR SHALL:

A. SECURE TERMINATION PANELS, ETHERNET SWITCHES AND ASSOCIATED ELECTRICAL WIRING AND EQUIPMENT CABLING IN A WORKMANLIKE MANNER THAT DOES NOT INTERFERE WITH EQUIPMENT AND FUTURE MAINTENANCE ON CABINET.

B. INSTALL LATERAL FIBER OPTIC CABLE IN A LOCATION WHICH WILL NOT DAMAGE CABLE OR PATCH CABLES AND WILL NOT BE DISTURBED BY FUTURE ROUTINE MAINTENANCE. STRAIN RELIEF AND CABLE LABEL SHALL BE INSTALLED.

36. THE CONTRACTOR SHALL SCHEDULE A PRE-FIBER INSTALLATION AND PRE-SPLICING MEETING TO ENSURE THAT ALL WORK WILL BE CONDUCTED ACCORDING TO THE PROJECT PLANS AND MANUFACTURER'S RECOMMENDATIONS.

37. TESTING OF FIBER OPTIC CABLE SHALL BE BI-DIRECTIONAL PER THE FIBER OPTIC TESTING SPECIFICATION INCLUDING OTDR AND POWER METER TESTING AND SHALL BE CONDUCTED FROM DEVICE TO DEVICE AND FROM DEVICE TO THE NETWORK REGENERATION NODE BUILDINGS.

Print Date: 10/19/2020	0000	Sheet Revisions			CDOT CO Region 4 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 CJS	As Constructed	NORTH I-25 EXPRESS LANES GENERAL NOTES (1 OF 2) ITS PLAN			Project No./Code
File Name: 21506ITS_Seg 5M GenNotes01.dgn		Date:	Comments	Init.		No Revisions:				IM 0253-255
Horiz. Scale: N/A Vert. Scale: As Noted						Revised:	Designer: K. Osaki	Structure		21506
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38. INFORMATION LABELS SHALL BE INSTALLED ON ALL FIBER OPTIC BACKBONE, LATERAL, AND PATCH CABLES AND TERMINATION PANELS AS DESCRIBED IN THE PROJECT SPECIFICATIONS AND DETAIL SHEETS.
39. COPPER COMMUNICATIONS CABLES SHALL NOT BE LOCATED IN THE SAME CONDUIT AS 120V OR HIGHER ELECTRICAL WIRING.
40. COMMUNICATIONS AND ELECTRICAL CABLES SHALL BE INSTALLED IN SEPARATE CONDUITS. ALL ELECTRICAL CONDUIT AND CABLE SHALL BYPASS COMMUNICATION MANHOLES. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BYPASS ELECTRICAL PULL BOXES. DO NOT FEED POWER CONDUCTORS THROUGH MANHOLES. RAMP METER POWER AND COMMUNICATION CABLES SHALL BE IN SEPARATE CONDUITS BUT CAN OCCUPY THE SAME PULL BOX WHERE SHOWN ON THE PLANS. PULL BOX SHALL HAVE TRAFFIC LABEL ON COVER.
41. ALL WIRE SIZES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE. CONTRACTOR SHALL REFER TO THE LIGHTING AND ELECTRICAL PLANS FOR ELECTRICAL WIRING AND INFRASTRUCTURE FOR ITS DEVICES AND EQUIPMENT.
42. REMOVE ALL EXISTING CABLES AND WIRES AT LOCATIONS IMPACTED BY CONSTRUCTION ONCE A TEMPORARY OR PERMANENT REPLACEMENT CONNECTION HAS BEEN ESTABLISHED. EXISTING CONDUITS MAY BE ABANDONED IN PLACE UNLESS REMOVAL IS NECESSARY TO COMPLETE CONSTRUCTION. ABANDONED CONDUIT AT CABINETS, STRUCTURES, PULL BOXES AND MANHOLES SHALL BE PLUGGED TO SEAL OFF ACCESS TO CONDUIT SYSTEM AND LABELED ACCORDINGLY.
43. INSTALL PULL TAPE CONTAINING CONTINUOUS 22 AWG TRACER WIRE IN ALL INSTALLED CONDUITS. A MINIMUM 12 AWG TRACER WIRE IS ALSO TO BE INSTALLED IN CONDUITS CONTAINING FIBER OPTIC CABLES. ALL SPLICES IN PULL TAPE AND TRACER WIRE SHALL BE COMPLETED WITHIN PULL BOXES AND MANHOLES FOR ACCESS.
44. ALL STRUCTURE AND POLE PENETRATIONS SHALL BE WATERTIGHT.
45. CONTRACTOR SHALL REFER TO THE SIGNING AND STRUCTURAL PLANS FOR SIGN CROSS SECTIONS, SIGN STRUCTURE DESIGN AND DEVICE ATTACHMENT DETAILS.
46. ALL ITS INFRASTRUCTURE, INCLUDING CONDUIT, PULL BOXES AND MANHOLES, TO BE INSTALLED TO PROPOSED GRADE. CONTRACTOR SHALL COORDINATE WITH GRADING PLANS.
47. ENVIRONMENTAL APPROVAL IS STILL REQUIRED IN MULTIPLE LOCATIONS ON THE PLANS. REFER TO THE ENVIRONMENTAL PLANS FOR MORE INFORMATION AND INFORM CONTRACTOR'S ENGINEER OF ANY CONFLICTS IN THE FIELD.

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NORTH I-25 EXPRESS LANES
GENERAL NOTES (2 OF 2)
ITS PLAN

Designer: K. Osaki

Detailer: K. Osaki

Sheet Subset: ITS GEN

Structure Numbers

Subset Sheets: 2 of 4

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21506

Sheet Number 598

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CONSTRUCTION NOTES:

- 1
- EXISTING PULL BOX (CDOT)
- 2
- EXISTING POLE MOUNTED CABINET
- 3
- EXISTING GROUND MOUNTED CABINET
- 4
- EXISTING MANHOLE (CDOT)
- 5
- EXISTING CONDUIT (CDOT)
- 6
- EXISTING CONDUIT DUCT BANK (CDOT AND ZAYD)
- 7
- EXISTING IP CCTV CAMERA
- 8
- EXISTING RWIS
- 9
- EXISTING MVRD (RAMP METER)
- 10
- EXISTING RAMP METER CABINET
- 11
- EXISTING VMS
- 12
- EXISTING ETHERNET SWITCH
- 13
- RESET EXISTING LIGHT STANDARD
- 14
- RESET EXISTING PULL BOX
- 15
- RESET EXISTING MVRD
- 16
- RESET EXISTING IP CCTV CAMERA
- 17
- RESET EXISTING ETHERNET SWITCH
- 18
- RESET EXISTING RAMP METER CABINET
- 19
- RESET EXISTING RAMP METER SIGNALS
- 20
- RESET PEDESTAL POLE
- 21
- REMOVE EXISTING CABINET
- 22
- REMOVE CCTV POLE
- 23
- RESET EXISTING MANHOLE
- 24
- REMOVE EXISTING PULL BOX
- 25
- EXISTING SPLICE POINT
- 26
- EXISTING CABLE END SPLICE
- 27
- EXISTING LIGHT STANDARD - TO BE RESET
- 28
- EXISTING PULL BOX - TO BE RESET
- 29
- EXISTING MVRD - TO BE RESET
- 30
- EXISTING IP CCTV CAMERA - TO BE RESET
- 31
- EXISTING ETHERNET SWITCH - TO BE RESET
- 32
- EXISTING RAMP METER CONTROLLER AND CABINET - TO BE RESET
- 33
- EXISTING RAMP METER SIGNAL - TO BE RESET
- 34
- EXISTING PEDESTAL POLE - TO BE RESET
- 35
- REMOVE EXISTING MANHOLE (BY OTHERS)
- 36
- REMOVE EXISTING PULL BOX (BY OTHERS)

- 37
- RAMP METER CABINET
- 38
- UPS (FOR TOLLING)
- 39
- UPS (FOR VTMS)
- 40
- UPS (FOR VMS)
- 41
- 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 42
- 2 INCH ELECTRICAL CONDUIT (BORED) (CDOT)
- 43
- 2 - 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 44
- 2 - 2 INCH ELECTRICAL CONDUIT (BORED) (CDOT)
- 45
- 3 - 2 INCH ELECTRICAL CONDUIT (CDOT) (BY OTHERS)
- 46
- ETHERNET SWITCH TYPE II (3930)
- 47
- DRILLED CAISSON (18 INCH)
- 48
- DRILLED CAISSON (24 INCH)
- 49
- DRILLED CAISSON (36 INCH)
- 50
- VARIABLE MESSAGE SIGN
- 51
- CLOSED CIRCUIT TELEVISION
- 52
- MICROWAVE VEHICLE RADAR DETECTOR
- 53
- MICROWAVE VEHICLE RADAR DETECTOR (FOR RAMP METER)
- 54
- VTMS (ONE INSERT)
- 55
- VTMS (TWO INSERTS)
- 56
- DSRC ROADSIDE UNIT (FOR FUTURE)
- 57
- RWIS
- 58
- CLOSED CIRCUIT TELEVISION POLE WITH LOWERING DEVICE (50 FEET)
- 59
- BREAKAWAY TAPERED ITS POLE STEEL (40 FEET)
- 60
- LIGHT STANDARD STEEL POLE (35 FEET)
- 61
- LIGHT STANDARD FOUNDATION
- 62
- FIBER OPTIC TERMINATION PANEL (24 FIBER)
- 63
- TRAFFIC SIGNAL PEDESTAL POLE STEEL
- 64
- TRAFFIC SIGNAL FACE (12-12)
- 65
- TRAFFIC SIGNAL FACE (12-12-12)
- 66
- LOOP DETECTORS
- 67
- FLASHING BEACON
- 68
- EXISTING FLASHING BEACON SIGN
- 69
- EXISTING LOOP DETECTORS
- 70
- RAMP METERING CONTROLLER
- 71
- ABANDON IN PLACE
- 72
- INTERCEPT EXISTING CONDUIT

- 73
- PULL BOX (24" X 36" X 24") (CDOT) (BY OTHERS)
- 74
- PULL BOX (24" X 36" X 24") (CDOT)
- 75
- PULL BOX (30" X 48" X 24") (CDOT) (BY OTHERS)
- 76
- PULL BOX (30" X 48" X 24") (CDOT)
- 77
- PULL BOX (SPECIAL) (CDOT)
- 78
- MANHOLE (TRAFFIC MANAGEMENT SYSTEM) (CDOT) (BY OTHERS)
- 79
- COMMUNICATIONS CABINET (TYPE 332)
- 80
- COMMUNICATIONS CABINET (TYPE 332D)
- 81
- COMMUNICATIONS CABINET (TOLL POINT)
- 82
- COMMUNICATIONS CABINET (TYPE 2) (POLE MOUNTED)
- 83
- COMMUNICATIONS CABINET (TYPE 2) (GROUND MOUNTED)
- 84
- PULL BOX (11" X 18" X 12") (CDOT)
- 85
- 3 - 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 86
- 3 - 2 INCH ELECTRICAL CONDUIT (BORED) (CDOT)
- 87
- PROPOSED SPLICE POINT
- 88
- PROPOSED CABLE END SPLICE
- 89
- MANHOLE (TRAFFIC MANAGEMENT SYSTEM) (CDOT) (2 PIECE) (BY OTHERS)
- 90
- TYPE 334 CABINET FOUNDATION
- 91
- PROTECT IN PLACE
- 92
- REMOVE EXISTING WIM POLE, MAST ARM AND ANTENNA
- 93
- WIM POLE, MAST ARM AND ANTENNA
- 94
- WIM CONTROLLER
- 95
- SERIAL TO IP CONVERTER
- 96
- EXISTING CELLULAR MODEM - TO BE RESET
- 97
- REMOVE EXISTING WEIGH-IN-MOTION LOOPS, PIEZOS AND SCALES
- 98
- WEIGH-IN-MOTION STATION (TYPE III)
- 99
- EXISTING ATR CABINET
- 100
- REMOVE EXISTING LOOPS AND PIEZOS
- 101
- ATR LOOPS AND PIEZOS
- 102
- EXISTING AVI ANTENNA
- 103
- POST MOUNTED CABINET (INSTALL ONLY)
- 104
- SENSOR INTERFACE CARD
- 105
- EXISTING CCTV POLE AND CABINET - TO BE RESET
- 106
- RESET EXISTING CCTV POLE AND CABINET
- 107
- DRILLED CAISSON (42 INCH)
- 108
- EXISTING FRICTION SENSOR

- 109
- EXISTING VMS - TO BE RESET
- 110
- RESET EXISTING VMS
- 111
- REMOVE EXISTING VMS
- 112
- REMOVE EXISTING ETHERNET SWITCH
- 113
- REMOVE EXISTING WIM CABINET
- 114
- EXISTING ATR CABINET AND SENSOR - TO BE RESET
- 115
- RESET EXISTING ATR CABINET AND SENSOR
- 116
- 1 - 2 INCH ELECTRICAL CONDUIT (CDOT) (BY OTHERS)
- 117
- EXISTING CABINET - TO BE RESET
- 118
- RESET EXISTING CABINET
- 119
- POLE MOUNTED CABINET (INSTALL ONLY)
- 120
- FRICTION SENSOR

WIRING NOTES:

- 1
- EXISTING 12 STRAND FIBER OPTIC LATERAL CABLE (CDOT)
- 2
- EXISTING 168 STRAND FIBER OPTIC BACKBONE CABLE (CDOT)
- 3
- REMOVE EXISTING CDOT 168 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
- 4
- FIBER OPTIC CABLE (SINGLE MODE) (168 FIBER) (INSTALLED BY OTHERS)
- 5
- REMOVE EXISTING CDOT FIBER OPTIC LATERAL CABLE
- 6
- FIBER OPTIC CABLE (SINGLE MODE) (12 FIBER)
- 7
- TRAFFIC SIGNAL HEAD WIRING
- 8
- CAT 5E STP CABLE
- 9
- MVRD CABLE
- 10
- LOOP LEAD-IN WIRING
- 11
- COMMUNICATION CABLING FOR ELECTRONIC SIGNAGE
- 12
- EXISTING RAMP METER EQUIPMENT CABLING
- 13
- FLASHING BEACON WIRING
- 14
- EXISTING 216 STRAND FIBER OPTIC BACKBONE CABLE (CDOT)
- 15
- REMOVE EXISTING CDOT 216 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
- 16
- EXISTING 96 STRAND FIBER OPTIC BACKBONE CABLE (CDOT)
- 17
- FIBER OPTIC CABLE (MULTI MODE) (6 FIBER)
- 18
- CABLING FOR PREPASS EQUIPMENT (INSTALL ONLY)
- 19
- REMOVE EXISTING CDOT 96 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
- 20
- FIBER OPTIC CABLE (SINGLE MODE) (96 FIBER) (INSTALLED BY OTHERS)
- 21
- FRICTION SENSOR CABLE

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	Detailer:	K. Osaki	Numbers			
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ABBREVIATIONS

ATR	AUTOMATIC TRAFFIC RECORDER
CAT5E	CATEGORY 5 ENHANCED
CCTV	CLOSED CIRCUIT TELEVISION
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
DSRC	DEDICATED SHORT RANGE COMMUNICATIONS
HCL	HORIZONTAL CONTROL LINE
IP	INTERNET PROTOCOL
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
LF	LINEAR FEET
MP	MILE POINT
MVRD	MICROWAVE VEHICLE RADAR DETECTOR
NB	NORTHBOUND
PDE	PORT OF ENTRY
RWIS	ROAD WEATHER INFORMATION SYSTEM
SB	SOUTHBOUND
STA	STATION
UPS	UNINTERRUPTIBLE POWER SUPPLY
VMS	VARIABLE MESSAGE SIGN
VTMS	VARIABLE TOLL MESSAGE SIGN
WIM	WEIGH-IN-MOTION

LEGEND

EXISTING	PROPOSED	
		PULL BOX
		PULL BOX (SPECIAL)
		MANHOLE
		CABINET
		CCTV
		MVRD
		DSRC (FOR FUTURE)
		VMS
		VTMS
		RWIS
		FRICTION SENSOR
		TOLL POINT
		TRAFFIC SIGNAL PEDESTAL POLE
		SIGN POST / FLASHING BEACON
		6'x6' INDUCTION LOOP
		ITS CONDUIT
		CONDUIT

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NORTH I-25 EXPRESS LANES
NB & SB I-25
ITS PLAN

Designer: K. Osaki

Detailer: S. Goetz

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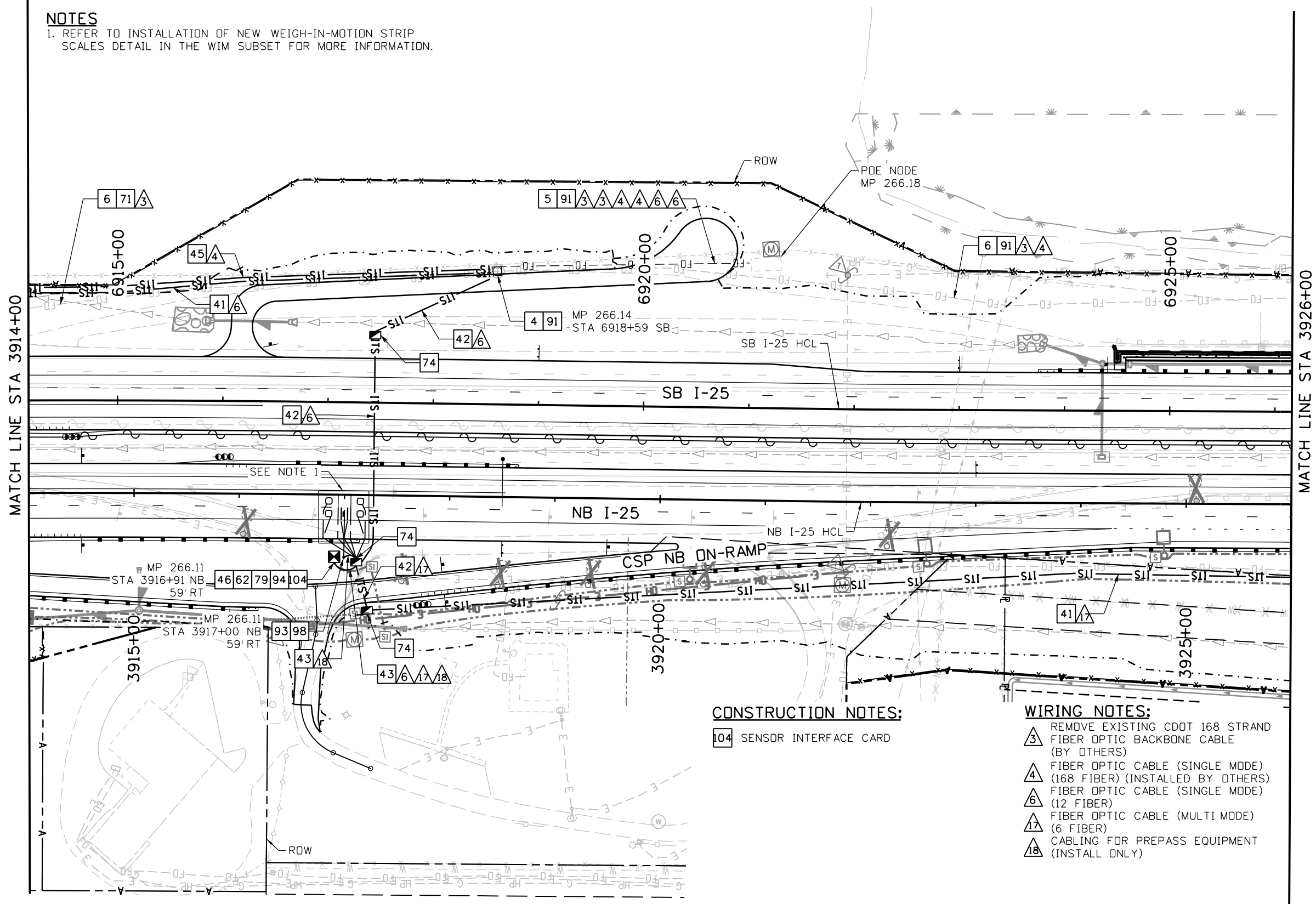
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Project No./Code
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21506
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NOTES

1. REFER TO INSTALLATION OF NEW WEIGH-IN-MOTION STRIP SCALES DETAIL IN THE WIM SUBSET FOR MORE INFORMATION.



CONSTRUCTION NOTES:

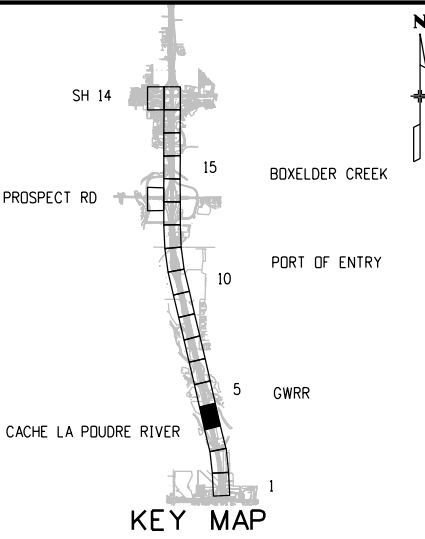
- 4 EXISTING MANHOLE (CDOT)
- 5 EXISTING CONDUIT (CDOT)
- 6 EXISTING CONDUIT DUCT BANK (CDOT AND ZAYO)
- 41 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 42 2 INCH ELECTRICAL CONDUIT (BORED) (CDOT)
- 43 2 - 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 45 3 - 2 INCH ELECTRICAL CONDUIT (CDOT) (BY OTHERS)
- 46 ETHERNET SWITCH TYPE II (3930)
- 62 FIBER OPTIC TERMINATION PANEL (24 FIBER)
- 71 ABANDON IN PLACE
- 74 PULL BOX (24" X 36" X 24") (CDOT)
- 79 COMMUNICATIONS CABINET (TYPE 332)
- 91 PROTECT IN PLACE
- 93 WIM POLE, MAST ARM AND ANTENNA
- 94 WIM CONTROLLER
- 98 WEIGH-IN-MOTION STATION (TYPE III)

WIRING NOTES:

- 3 REMOVE EXISTING CDOT 168 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
- 4 FIBER OPTIC CABLE (SINGLE MODE) (168 FIBER) (INSTALLED BY OTHERS)
- 6 FIBER OPTIC CABLE (SINGLE MODE) (12 FIBER)
- 17 FIBER OPTIC CABLE (MULTI MODE) (6 FIBER)
- 18 CABLING FOR PREPASS EQUIPMENT (INSTALL ONLY)

CONSTRUCTION NOTES:

- 104 SENSOR INTERFACE CARD



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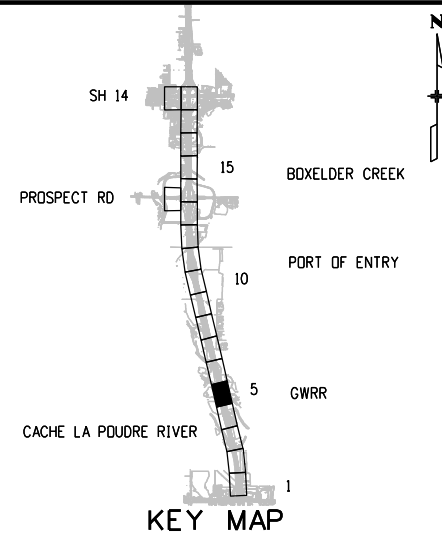
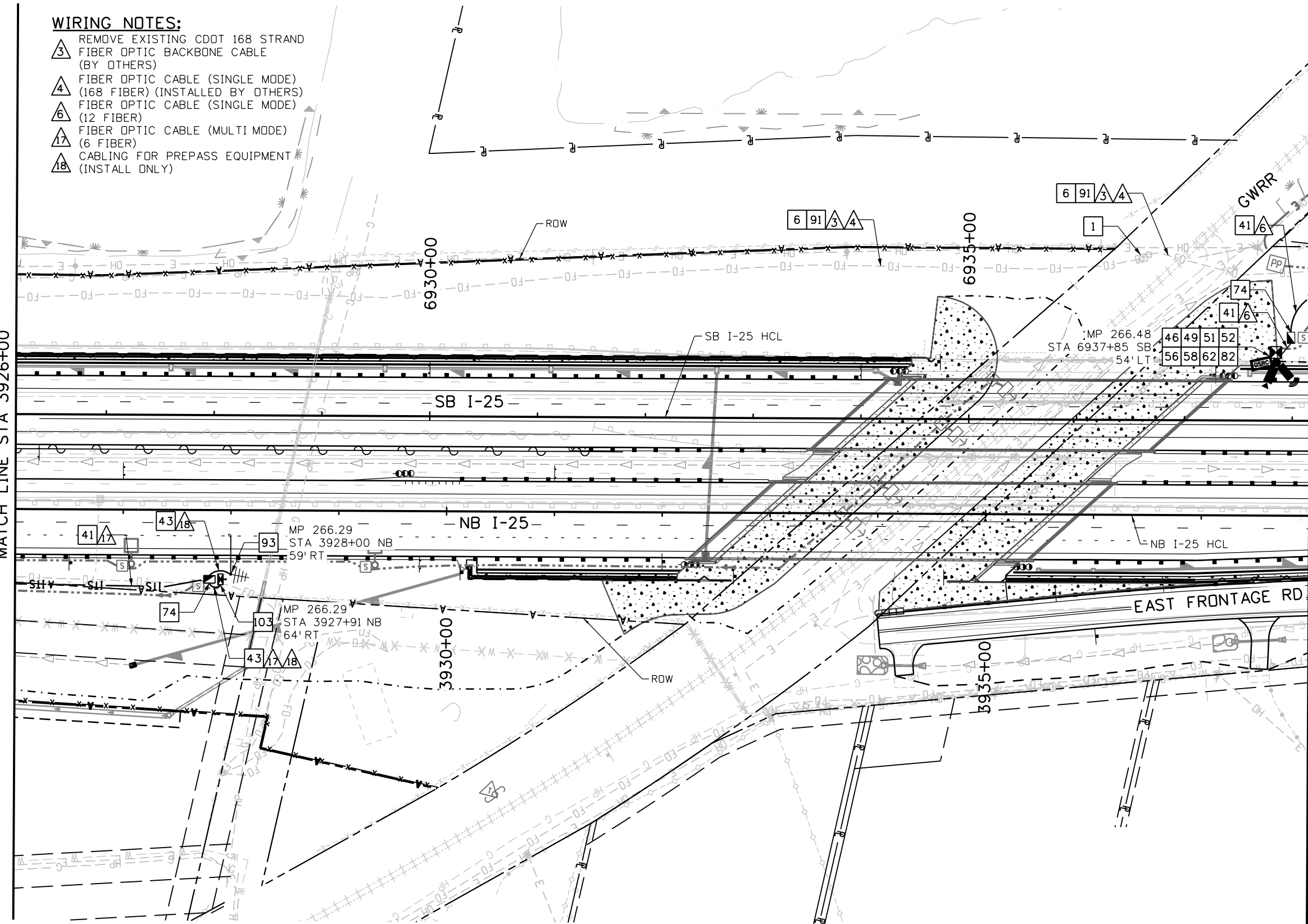
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WIRING NOTES:

- 3 REMOVE EXISTING CDOT 168 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
- 4 FIBER OPTIC CABLE (SINGLE MODE) (168 FIBER) (INSTALLED BY OTHERS)
- 6 FIBER OPTIC CABLE (SINGLE MODE) (12 FIBER)
- 7 FIBER OPTIC CABLE (MULTI MODE) (6 FIBER)
- 8 CABLING FOR PREPASS EQUIPMENT (INSTALL ONLY)

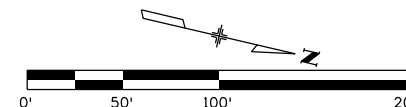


CONSTRUCTION NOTES:

- 1 EXISTING PULL BOX (CDOT)
- 6 EXISTING CONDUIT DUCT BANK (CDOT AND ZAYO)
- 41 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 43 2 - 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
- 46 ETHERNET SWITCH TYPE II (3930)
- 49 DRILLED CAISSON (36 INCH)
- 51 CLOSED CIRCUIT TELEVISION
- 52 MICROWAVE VEHICLE RADAR DETECTOR
- 56 DSRC ROADSIDE UNIT (FOR FUTURE)
- 58 CLOSED CIRCUIT TELEVISION POLE WITH LOWERING DEVICE (50 FEET)
- 62 FIBER OPTIC TERMINATION PANEL (24 FIBER)
- 74 PULL BOX (24" X 36" X 24") (CDOT)
- 82 COMMUNICATIONS CABINET (TYPE 2) (POLE MOUNTED)
- 91 PROTECT IN PLACE
- 93 WIM POLE, MAST ARM AND ANTENNA
- 103 POST MOUNTED CABINET (INSTALL ONLY)



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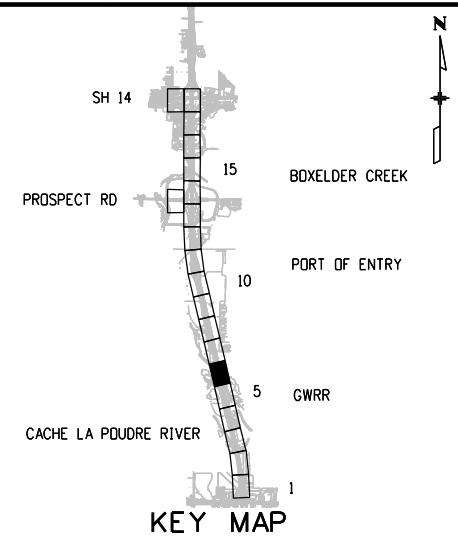
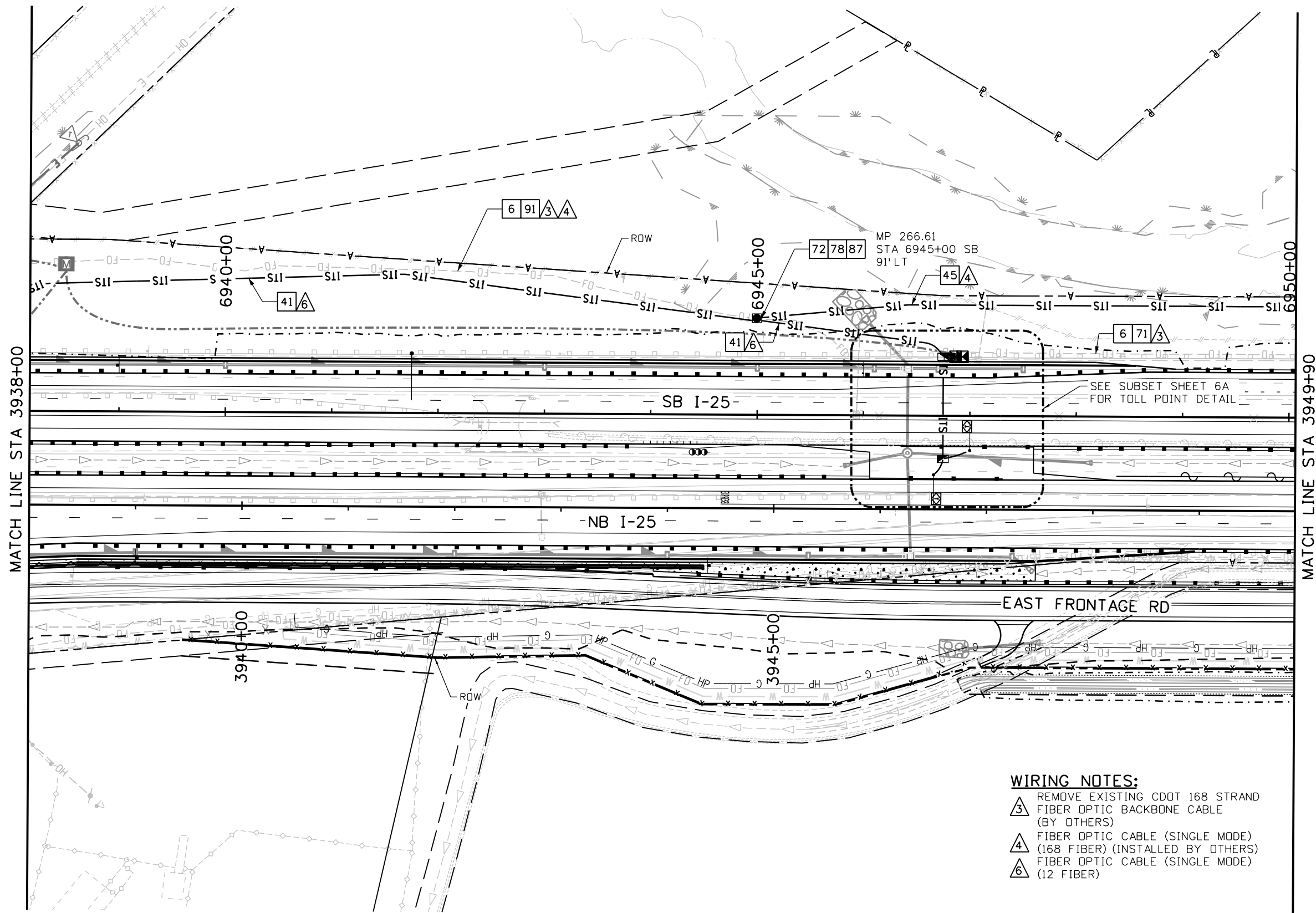
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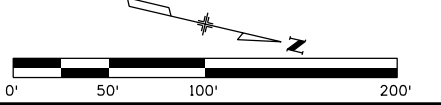
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- CONSTRUCTION NOTES:**
- 6 EXISTING CONDUIT DUCT BANK (CDOT AND ZAYO)
 - 41 2 INCH ELECTRICAL CONDUIT (PLASTIC) (CDOT)
 - 45 3 - 2 INCH ELECTRICAL CONDUIT (CDOT) (BY OTHERS)
 - 71 ABANDON IN PLACE
 - 72 INTERCEPT EXISTING CONDUIT
 - 78 MANHOLE (TRAFFIC MANAGEMENT SYSTEM) (CDOT) (BY OTHERS)
 - 87 PROPOSED SPLICE POINT
 - 91 PROTECT IN PLACE

- WIRING NOTES:**
- 3 REMOVE EXISTING CDOT 168 STRAND FIBER OPTIC BACKBONE CABLE (BY OTHERS)
 - 4 FIBER OPTIC CABLE (SINGLE MODE) (168 FIBER) (INSTALLED BY OTHERS)
 - 6 FIBER OPTIC CABLE (SINGLE MODE) (12 FIBER)



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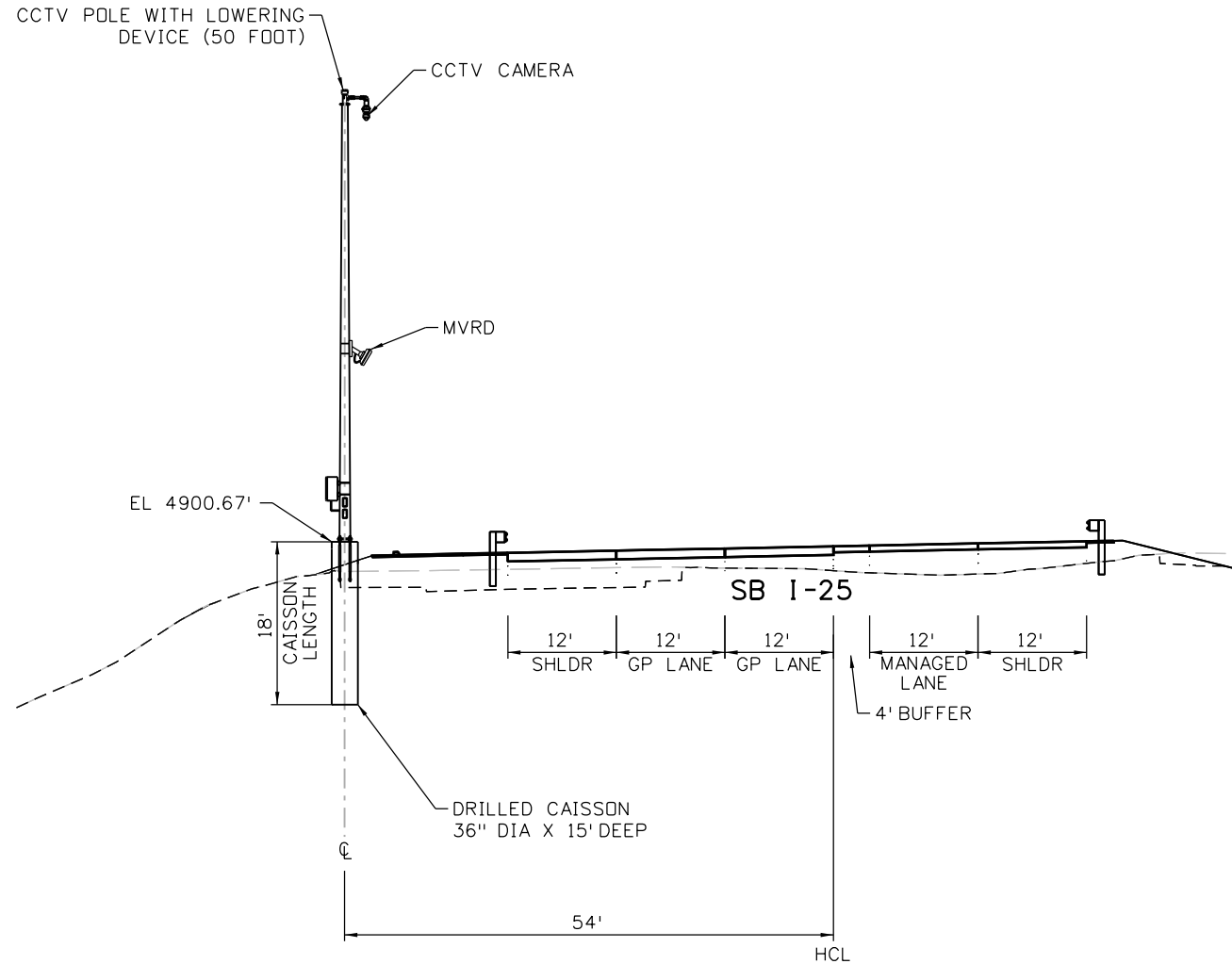
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 10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4 CJS

As Constructed		NORTH I-25 EXPRESS LANES NB & SB I-25 ITS PLAN			Project No./Code	
No Revisions:		Designer: K. Osaki			IM 0253-255	
Revised:		Detailer: S. Goetz			21506	
Void:		Sheet Subset: ITS			Sheet Number 606	
		Structure Numbers			Subset Sheets: 6 of 18	

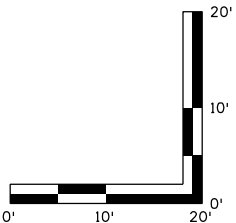
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NOTES:

1. INSTALLATION OF POLE AND CAISSON PER CDOT ITS DETAILS.
2. CONTRACTOR TO POTHOLE THE LOCATION OF THE CAISSON FOUNDATION TO IDENTIFY ANY REQUIRED ADJUSTMENTS TO FIELD CONDITIONS OR CONFLICTS WITH UTILITIES.
3. ELEVATIONS ARE APPROXIMATE BASED ON SURVEY. FIELD VERIFY PRIOR TO BEGINNING ANY CONSTRUCTION AND NOTIFY CONTRACTOR'S ENGINEER IF THERE IS A DISCREPANCY OF $\pm 6"$.
4. SEE CCTV POLE WITH LOWERING DEVICE DETAIL, ORIENTATION VIEW, FOR PROPER DEVICE ORIENTATION RELATED TO TRAFFIC.
5. ALL CONDUITS TERMINATED IN THE CCTV POLE SHALL EXTEND TO A POINT 6 INCHES BELOW THE HANDHOLE IN THE POLE.

I-25 STA. 6937+85 SB
LOOKING IN NB DIRECTION OF TRAFFIC
MILE POINT 266.48



Print Date: 10/19/2020

File Name: 21506ITS_XSect-S5M

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Revised:
Void:

NORTH I-25 EXPRESS LANES
CCTV CROSS SECTION STA 6937+85 SB
ITS PLAN

Designer: K. Osaki

Detailer: S. Goetz

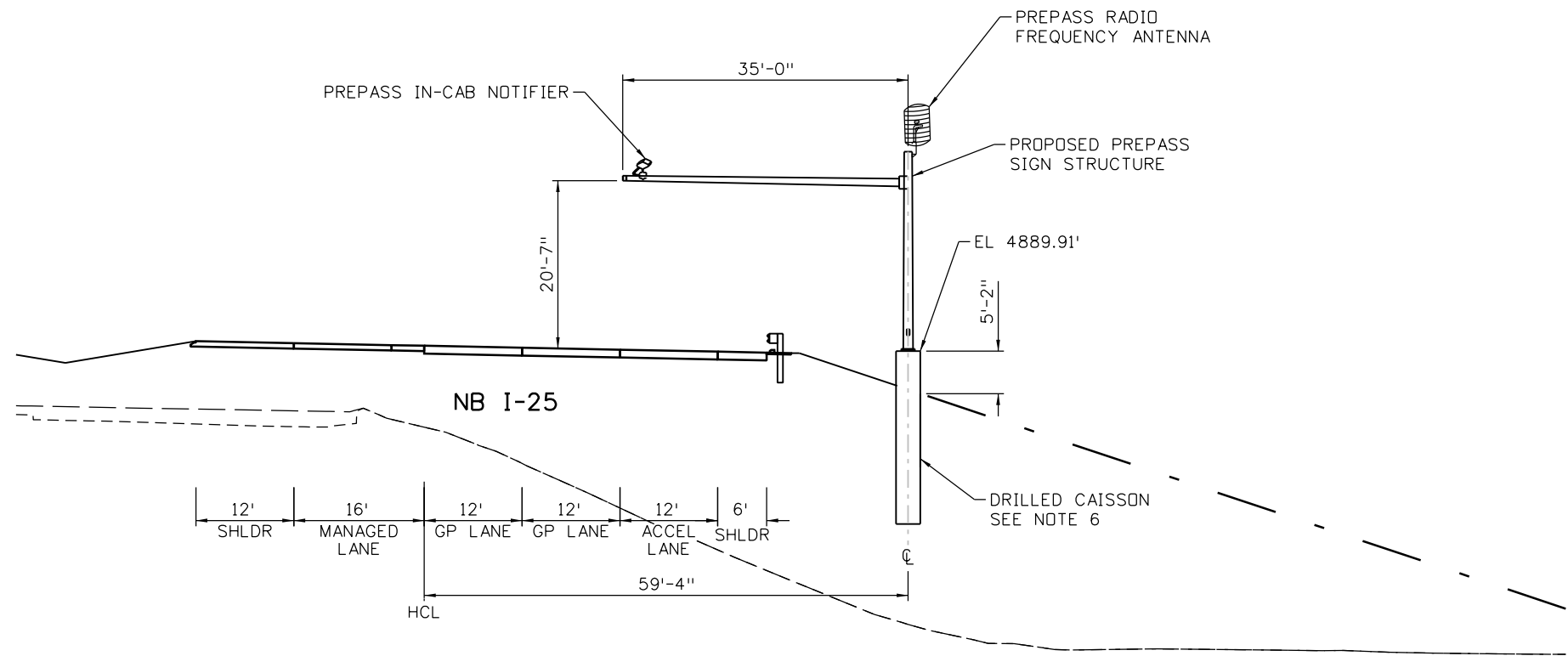
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Structure Numbers

Subset Sheets: 1 of 4

Project No./Code
IM 0253-255
21506
Sheet Number 622

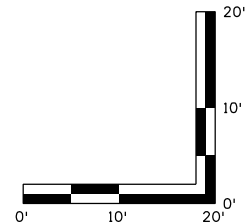
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I-25 STA 3928+00 NB
LOOKING IN NB DIRECTION OF TRAFFIC
MILE POINT 266.27

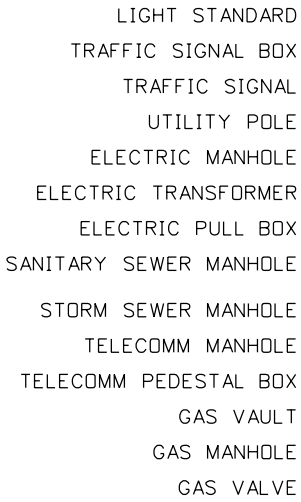
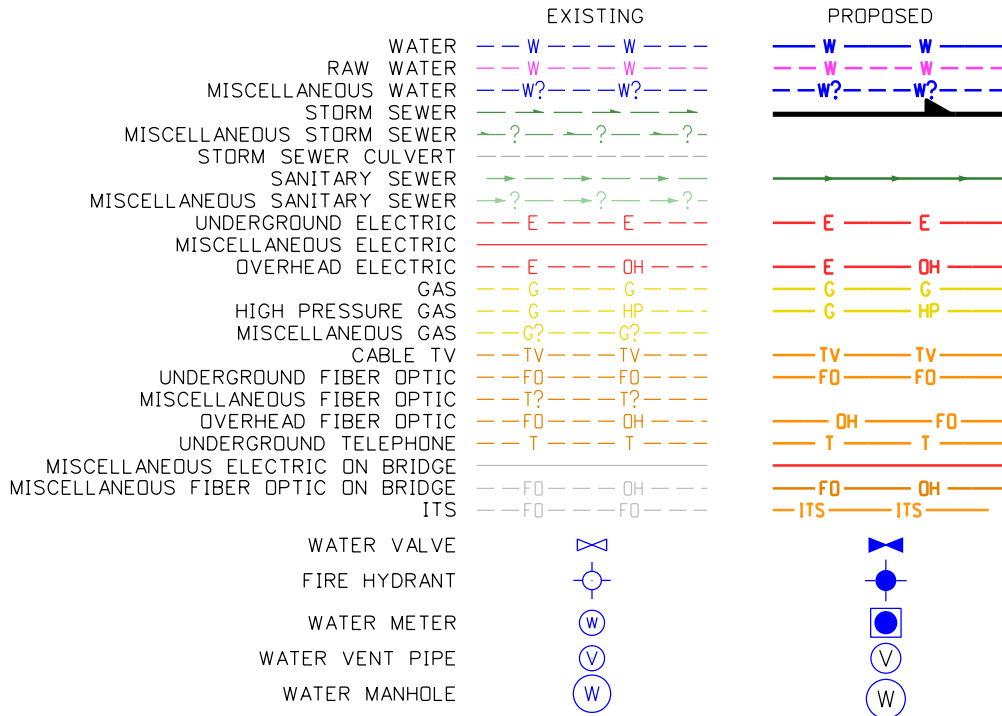
NOTES:

1. THE CONTRACTOR SHALL DETERMINE THE ELEVATION OF THE ROADWAY AT ITS HIGHEST POINT AND GUARANTEE THAT THE ELEVATION OF THE TOP OF THE CAISSON WILL PROVIDE A MINIMUM OF 18'-0" CLEARANCE BETWEEN THE AVI ANTENNA AND THE ROADWAY AT ITS HIGHEST ELEVATION.
2. CONTRACTOR TO COORDINATE WITH AL LUCERO WITH PREPASS (757-510-3083) ON THE INSTALLATION OF THE PREPASS EQUIPMENT.
3. CONTRACTOR TO POTHOLE THE LOCATION OF THE CAISSON FOUNDATION TO IDENTIFY ANY REQUIRED ADJUSTMENTS TO FIELD CONDITIONS OR CONFLICTS WITH UTILITIES.
4. ELEVATIONS ARE APPROXIMATE BASED ON SURVEY. FIELD VERIFY PRIOR TO BEGINNING ANY CONSTRUCTION AND NOTIFY CONTRACTOR'S ENGINEER IF THERE IS A DISCREPANCY OF $\pm 6"$.
5. ALL CONDUITS TERMINATED IN THE POLE SHALL EXTEND TO A POINT 6 INCHES BELOW THE HANDHOLE IN THE POLE.
6. REFER TO STRUCTURAL DETAILS FOR CAISSON DETAILS.
7. INSTALLATION PER CDOT STANDARD S-614-40A. ALL PENETRATIONS FOR PREPASS EQUIPMENT TO BE FIELD DRILLED. CONTRACTOR TO SUBMIT PROPOSED PENETRATION LOCATIONS TO CONTRACTOR'S ENGINEER PRIOR TO DRILLING IN THE FIELD.



Print Date: 10/19/2020		0000	Sheet Revisions			CDOT CO 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4CJS	As Constructed		NORTH I-25 EXPRESS LANES PREPASS CROSS SECTION STA 3928+00 NB ITS PLAN			Project No./Code	
File Name: 21506ITS_WIM XSect-S5M.dgn			Date:	Comments	Init.		No Revisions:		IM 0253-255				
Horiz. Scale: 1:20 Vert. Scale: As Noted							Revised:		Designer: K. Osaki	Structure Numbers	21506		
apexdesign KRAEMER a joint venture							Void:		Detailer: K. Osaki		Sheet Number 627		
							Sheet Subset: WIM XSECT		Subset Sheets: 2 of 6				

LEGEND



EXIST. UTILITIES TO BE REMOVED/RELOCATED X X X X X

POT HOLE LOCATION PH #000



FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
www.uncc.org



SUBSET SHEET NO.

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2-4
1-18
19-20

SHEET TITLE

GENERAL INFORMATION
POT HOLE DATA TABLE
UTILITY PLAN
AS BUILT DATA TABLE

NOTES

1. ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE SOURCES AND OBTAINED THROUGH CDOT AND THE RESPECTIVE UTILITY OWNERS. POT HOLE INFORMATION WAS PROVIDED BY CDOT WITH SUPPLEMENTAL POT HOLES OBTAINED BY THE KRAEMER-IHC JOINT VENTURE (JV) IN AREAS OF POTENTIAL CONFLICT. ALL UTILITIES SHALL BE LOCATED AND MARKED IN THE FIELD PRIOR TO CONSTRUCTION USING BEST PRACTICES AND AS REQUIRED BY LAW. RELOCATED UTILITIES ARE SCHEMATICALLY SHOWN AND FINAL UTILITY PLACEMENT SHALL BE COORDINATED BY THE JV AND THE AFFECTED UTILITY OWNERS.

2. FOR PROPOSED LIGHTING INFORMATION AND LEGEND, SEE LIGHTING PLANS.

UTILITY PROVIDER CONTACT INFORMATION

UTILITY OWNER	PLAN ABBREVIATION	UTILITY TYPE	CONTACT	PHONE	E-MAIL	ADDRESS	CITY	ZIP	WEBSITE
BOX ELDER DITCH COMPANY	BED	IRRIGATION	LEE THOMPSON	(970)482-3067	thompsonleslie@gmail.com				
BOX ELDER SANITATION DISTRICT	BES	SANITARY	BRENDA PRICE	(970) 498-0604	bprice@boxeldersanitation.org	3201 EAST MULBERRY	FORT COLLINS	80524	http://boxeldersanitation.org/
CACHE LA Poudre RESERVOIR COMPANY	CLPR	IRRIGATION	DALE TROWBRIDGE	(970)352-0222	DTrowbridge@newcache.com	PO BOX 104	LUCERNE	80646	
COMCAST	CMC	FIBER OPTIC	KEVIN YOUNG	(720)281-8666	Kevin_Young@comcast.com	2190 E 104TH AVE, THORNTON	DENVER	80233	
CENTURY LINK LOCAL	CNL	FIBER OPTIC	KEN KELGARD (Terra Tech)	(970)667-1818	kelgard@terratechllc.net				www.centurylink.com
CDOT ELECTRIC		ELECTRIC	ROD DUDLEY	(970)350-2137	rodric.dudley@state.co.us	10601 STATE HIGHWAY 34 BUSINESS	GREELEY	80631	https://www.codot.gov/
COLORADO YOUTH OUTDOORS	CYO	IRRIGATION	BOB HEWSON	(970)663-0800	bhewson@coloradoyo.org	4927 COUNTY RD 36	FORT COLLINS	80528	
EAST LARIMER COUNTY WATER DISTRICT	ELCO	WATER	RANDY SIDDENS	(970)493-2044	randys@elcowater.org	232 S LINK LANE	FORT COLLINS	80524	https://www.elcowater.org/
SOUTH FORT COLLINS SANITATION DISTRICT	FCL	SANITARY	TERRY FARILL	(970)226-3104	tfarill@aol.com; tfarill@fclwd.com	5150 SNEAD DRIVE	FORT COLLINS	80525	http://www.fclwd.com/
FORT COLLINS - LOVELAND WATER	FCLP	WATER	JAY EAST	(970)567-3505	jay@fclwd.com	5150 SNEAD DRIVE	FORT COLLINS	80525	http://www.fclwd.com/
FARMER'S DITCH	FD	IRRIGATION	JIM CROISSANT	(970)218-6507	jcrois1017@aol.com	26442 WELD COUNTY ROAD 15	JOHNSTOWN	80534	
FORT COLLINS LIGHT AND POWER	FCLP	ELECTRIC	JANET MCTAGUE	(970)224-6154	jmctague@fcgov.com	117 N MASON ST	FORT COLLINS	80524	
GARD LATERAL DITCH	GL	IRRIGATION	BARBARA JOHNSON	(970)214-7563		5531 EAST HIGHWAY 402	LOVELAND	80537	
GREELEY LOVELAND IRRIGATION COMPANY	GLI	IRRIGATION	RON BRINKMANN	(970)352-0495	rbglic808@aol.com	808 23RD AVE	GREELEY	80634	
GREELEY WATER	GW	WATER	DAN MOORE	(970)350-9814	dan.moore@greeleygov.com	1100 10TH ST	GREELEY	80631	
HILLSBOROUGH DITCH COMPANY	HBD	IRRIGATION	CHRIS THOMPSON	(970)391-2655	DTrowbridge@newcache.com				
LAKE CANAL RESERVOIR COMPANY	LCR	IRRIGATION	JUSTIN GREEN	(970)420-7503	justin@lakecanal.com	13329 WELD COUNTY ROAD 74	EATON	80615	
LOUDEN DITCH	LD	IRRIGATION	DAVID BAUER	(970)484-7704	dbauer@telesto-inc.com	3801 AUTOMATION WAY, SUITE 201	FORT COLLINS	80525	
LOWER Poudre AUGMENTATION COMPANY	LPAC	IRRIGATION	DALE TROWBRIDGE	(970)352-0222		PO BOX 104	LUCERNE	80646	
LITTLE THOMPSON WATER DISTRICT	LTWD	WATER	AMBER KAUFFMAN	(970)532-2096	akauffman@LTWD.org	835 E STATE HIGHWAY 56	BERTHOUD	80513	http://ltwd.org/
CITY OF LOVELAND (FORMERLY LOVELAND WATER, TRAFFIC, AND POWER)	LWTP	WATER & WASTEWATER ELECTRIC TRAFFIC	MELISSA MORIN MARK WARNER NATHAN BEAUHEIM	(970)962-3709 (970)962-3588 (970)962-2644	Melissa.Morin@cityofloveland.org mark.warner@cityofloveland.org nathan.beauheim@cityofloveland.org	200 N. WILSON AVE.	LOVELAND	80537	http://www.cityofloveland.org
NORTH Poudre IRRIGATION	NPI	IRRIGATION	TAD MOEN	(970)218-8467	tmoen@npicwater.com	3729 CLEVELAND AVE	WELLINGTON	80549	https://npicwater.com/
PLATTE RIVER POWER AUTHORITY	PRPA	ELECTRIC	PAUL CROSBY	(970)229-1782	CrosbyP@prpa.org	2000 E. HORSETOOTH RD	FORT COLLINS	80525	https://www.prpa.org/
Poudre VALLEY REA	PVREA	ELECTRIC	MATT ORGAN	(800)432-1012	morgan@PVREA.com	7649 REA PARKWAY	FORT COLLINS	80528	https://pvrea.com/
SAND DIKE DITCH COMPANY	SD	IRRIGATION	MARTY VERMILYEA	(970)227-3104	heritageframes@gmail.com	4416 STABLE LANE	FORT COLLINS	80525	
TDS TELECOM	TDS	FIBER OPTIC	WILLIAM TRUJILLO	(719)250-1939	William.Trujillo@tdstelecom.com	1458 ARAPAHOE ST	STRASBURG	80136	https://tdstelecom.com/
TIMNATH PUBLIC WORKS	TPW	IRRIGATION	DON TARANTO	(970)488-2110					
WESTERN AREA POWER ADMINISTRATION	WAPA	ELECTRIC	JASON GROENDYK	(970)461-7565	Groendyk@wapa.gov	5555 E. CROSSROADS BLVD	LOVELAND	80539	https://www.wapa.gov/Pages/Western.aspx
XCEL ENERGY	XCEL	ELECTRIC GAS (Below 150 psig) GAS (150 psig & above)	JASON VOLESKY RICHARD VARGAS SARAH ROBINSON	(970)400-1248 (303)571-3902 (303)571-3926	jason.a.volesky@xcelenergy.com richard.vargas@xcelenergy.com Sarah.Robinson@xcelenergy.com	1123 WEST 3RD AVENUE	DENVER	80223	https://www.xcelenergy.com/
ZAYO	ZAYO	FIBER OPTIC	JAMES R. BLACK	(719)216-8508	james.black@zayo.com	1621 18TH ST.	DENVER	80202	http://www.zayo.com/

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NORTH I-25 EXPRESS LANES
GENERAL INFO AND LOCATION DATA TABLES
UTILITY PLAN

Designer: S. Bartels
Detailer: A. Harr
Sheet Subset: UTIL-GEN

Structure
Numbers

Subset Sheets: 1 of 4

Project No./Code

IM 0253-255

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SEGMENT 5 POTHOLE DATA TABLE

POTHOLE NO. (PH #)	UTILITY / DESCRIPTION	GROUND ELEVATION	DEPTH TO TOP (IN)	TOP ELEVATION	NORTHING	EASTING
103B	FIBER, 2 - 2" PVC	3896+20.43	161.21	LT	287633.77	188150.32
104	FIBER, 2 - 2" PVC	3917+03.06	184.68	LT	289630.40	187675.22
105	FIBER, ABANDONED (PER USIC)	3917+86.02	112.91	RT	289787.27	187941.37
106	FIBER (2- 2" PVC)	4894.78	43	4891.20	295245.80	186424.52
107	FIBER 2" PVC	4893.36	32	4890.69	295354.52	186609.95
108	FIBER (2- 2" PVC)	4902.62	53	4898.20	298785.39	185740.24
109	ELECTRIC (2" PVC)	4904.71	30	4902.21	301111.59	184489.03
110	ELECTRIC BANK (24")	4901.73	32	4899.06	301128.60	184535.40
111	FIBER (2-3" PVC)	4904.79	27	4902.54	301300.40	184600.70
112	FIBER (2-3" PVC)	4903.74	23	4901.82	301316.50	184853.40
113	FIBER (1" PVC)	4904.22	69	4898.47	301291.70	185103.80
114	FIBER (1" PVC)	4904.60	48	4900.60	301278.60	185298.80
115	GAS (6" STEEL)	4905.98	41	4902.56	301287.40	185309.50
116	GAS (8" STEEL)	4902.07	63	4896.82	300432.90	185612.60
117	FIBER (2" PVC)	4901.97	82	4895.14	300342.10	185617.90
118	WATER (27" STEEL)	4905.39	71	4899.47	300292.70	185781.20
119	GAS (8" STEEL)	4904.19	84	4897.19	300423.00	185915.20
120	WATER (27" STEEL)	4905.18	66	4899.68	300235.50	185860.10
121	FIBER, UNABLE TO LOCATE (4' WIDE AND 6' DEEP)	4910.49			301261.70	185710.70
122	FIBER (2" PVC)	4923.79	36	4920.79	301316.80	185406.70
123	FIBER, UNABLE TO LOCATE (11'6" WIDE AND 5' DEEP)	4908.32			301239.00	186178.90
127	FIBER, UNABLE TO LOCATE (4' WIDE AND 6' DEEP)	4913.30			302275.40	185887.10
128	FIBER (2" PVC)	4912.76	41	4909.34	302411.70	185663.80
129	FIBER (2" PVC)	4908.00	31	4905.42	301477.30	185382.30
139	WATER (20" CAST IRON)	4899.97	57	4895.22	297112.80	186180.87
140	WATER (20" CAST IRON)	4899.65	46	4895.82	297384.99	185859.49
141	WATER (6" AC)	4913.89	106	4905.06	301982.05	185919.26
142	WATER (6" AC)	4914.24	116	4904.57	301978.52	185641.57
143	ELECTRIC (2 - 3" PVC)	4922.33	87	4915.08	304443.02	185910.16
144	FIBER (2" PVC)	4922.40	20	4920.73	304446.32	185898.48
145	WATER (3/4" COPPER)	4924.58	61	4919.50	304941.58	185908.54
146	ELECTRIC (2 - 3" PVC)	4924.30	41	4920.89	304941.27	185908.97
147	FIBER (1" PVC)	4923.66	48	4919.66	304910.11	185898.53
348	FIBER/ITS (ZAYO 2" RED PVC 3" GREEN PVC 1-1/2" RED PVC)	4895.56	44	4891.89	295525.66	186360.91
348B	FIBER/ITS (ZAYO 2" RED PVC 3" GREEN PVC 1-1/2" RED PVC)	4894.62	38	4891.45	295265.24	186420.69
349	FIBER/ITS (ZAYO 2" RED PVC 1-1/2" RED PVC)	4898.97	42	4895.47	295800.00	186303.85
350	FIBER/ITS	4899.45	42	4895.95	296037.53	186250.77
351	FIBER/ITS	4898.77	42	4895.27	296256.33	186199.71
352	FIBER/ITS (3/4" BLACK CABLE)	4899.78	32	4897.11	296530.39	186138.88
358	WATER (NO PIPE/NO INFO PH WAS FOUND)	4913.06			301975.22	185874.68
362	FIBER/ITS (6' DEEP 3' SWEEP NOT FOUND)	4924.02			301325.02	185385.90
366	ELECTRIC (10" RED AND 1" BLACK CABLE)	4915.96	77	4909.54	302407.44	185861.29
367	WATER (60")	4920.42	108	4911.42	302915.32	185860.42
368	WATER (60")	4920.40	126	4909.90	303089.98	185694.62
369	FIBER/ITS (NO INFO.)	4920.33			303656.99	185700.25
378	FIBER/ITS (NO INFO.)	4921.79			303983.78	185695.20
379	WATER (1" COPPER)	4926.34	86	4919.17	304952.44	185856.48
425	FIBER 6"DEEP	3947+14.18	99.28	LT	292584.32	187058.09
427	FIBER	4893.40	NO VERT. INFO.		293027.52	186952.85
431	WATER (24" STEEL)	4900.06	59	4895.15	297112.27	186180.86

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NORTH I-25 EXPRESS LANES
GENERAL INFO AND LOCATION DATA TABLES
UTILITY PLAN

Designer: S. Bartels

Detailer: A. Harr

Sheet Subset: UTIL-GEN

Structure

Numbers

Subset Sheets: 2 of 4

Project No./Code

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21506

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SEGMENT 5 POTHOLE DATA TABLE

POTHOLE NO. (PH #)	UTILITY / DESCRIPTION	GROUND ELEVATION	DEPTH TO TOP (IN)	TOP ELEVATION	NORTHING	EASTING
432B	WATER	4897.87	NO VERT. INFO.		296228.03	186372.46
436	WATER (NOT FOUND)	4926.41			304935.04	185694.02
456	IRRIGATION SIPHON (MAX 10 FT.)	4900.83			298718.45	185914.94
456A	IRRIGATION SIPHON (From Top Headwall to Inside Floor = -12.65')	4905.68			298745.41	185954.63
457	IRRIGATION SIPHON (Inside Roof -7.44'; Inside Floor -12.52')	4904.90			298590.28	185722.27
457A	IRRIGATION SIPHON (E Side of Frontage Road)	4901.17			298607.08	185752.39
473	FIBER (2" ORANGE PVC; POE COMMUNICATION)	4902.13	95	4894.22	297616.25	185911.96
475	WATER (30" CEMENT)	4900.54	58	4895.71	297376.73	185869.71
476	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC) (Black w Red Elec)	4922.19	61	4917.11	304478.93	185910.88
477	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC) (Black w Red Elec)	4921.40	83	4914.49	304354.25	185911.12
478	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC)	4922.28	86	4915.11	304587.63	185908.81
479	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC)	4923.30	42	4919.80	304754.45	185908.85
480	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC)	4924.68	54	4920.18	304916.45	185908.73
481	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC) (Black w Red Elec. Ground Water)	4914.67	41	4911.26	304113.76	185912.43
482	ELECTRIC (1x6" PVC, 1x4" PVC, 1x2" PVC) (Black w Red Elec)	4918.58	62	4913.41	303599.75	185909.49
5571	Gas, 8-G-XCEL-010 (Relocated)	4902.71	31	4900.13	300457.79	185564.35
5572	Gas, 8-G-XCEL-010 (Relocated)	4903.20	31	4900.62	300454.93	185543.12
5581	8-C-ZAYO-052	4901.79			300529.15	185585.46
5582	Water, 8-W-GW-007	4901.80	32	4899.13	300399.29	185615.62
5001	8-W-ECLO-012	4884.27	45	4880.52	292368.89	187334.39
5002	8-G-XCEL-004	4884.31	35	4881.40	292367.83	187330.69
5003	8-G-XCEL-004	4890.94	35	4888.02	292744.75	187211.20
5004	8-C-CNL-040	4889.81	24	4887.81	292746.97	187218.18
5005	8-W-GW-003	4896.26	72	4890.26	296135.09	186435.37
5006	8-W-GW-003	4898.23	63	4892.98	296228.54	186372.81
5007	8-W-GW-003	4899.96	56	4895.29	296649.27	186073.83
5008	8-W-ELCO-012	4899.67	62	4894.50	296879.42	186268.67
5009	8-W-ELCO-012	4898.20	61	4893.12	297059.86	186227.14
5010	8-W-GW-002	4898.62	36	4895.62	297081.62	186219.61
5011	8-W-GW-002	4900.09	59	4895.17	297112.42	186180.83
5012	8-IR-SD-004	4897.26	29	4894.85	296800.17	185984.97
5013	8-W-GW-002	4900.56	58	4895.73	297376.63	185869.97
5014	8-C-CNL-051	4901.72	28	4899.39	300120.14	185608.60
5015	8-C-CNL-051	4901.36	42	4897.86	300118.41	185532.65
5022	8-W-GW-002	4899.04	65	4893.63	298837.11	185669.61
5023	8-W-GW-002	4900.04	76	4893.71	298626.94	185685.46
5024	8-W-GW-002	4901.75		4901.75	298504.97	185702.60
5025	8-W-GW-002	4901.44	105	4892.69	298470.73	185708.52
5026	8-C-ZAYO-059	4861.57	47	4857.65	291466.68	187231.60
5027	8-C-ZAYO-059	4855.61	47	4851.69	291196.64	187293.23
5028	8-C-ZAYO-059	4855.81	44	4852.14	290900.09	187384.20
5029	8-C-ZAYO-059	4856.36	48	4852.36	290573.14	187468.28
5030	8-C-ZAYO-059	4856.41	47	4852.49	289916.07	187587.42
5031	8-C-ZAYO-059	4856.58	47	4852.66	289915.99	187593.19
5032	8-C-ZAYO-059	4855.81	44	4852.14	290900.09	187384.20
5033	8-C-ZAYO-059	4849.07	44	4845.40	287854.62	188101.14
5034	8-C-CNL-048	4895.45	24	4893.45	296048.81	186459.21
5035	8-W-ELCO-012	4895.45	64	4890.12	296048.81	186459.21
5036	8-W-ELCO-006	4899.88	66	4894.38	296796.83	186287.69
5037	8-C-CNL-048	4899.85	28	4897.51	296798.78	186287.68

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NORTH I-25 EXPRESS LANES
GENERAL INFO AND LOCATION DATA TABLES
UTILITY PLAN

Designer: S. Bartels

Detailer: A. Harr

Sheet Subset: UTIL-GEN

Structure

Numbers

Subset Sheets: 3 of 4

Project No./Code

IM 0253-255

21506

Sheet
Number

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Segment 5M - RFC - CDOT - 10.19.2020

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SEGMENT 5 POTHOLE DATA TABLE

POTHOLE NO. (PH #)	UTILITY / DESCRIPTION	GROUND ELEVATION	DEPTH TO TOP (IN)	TOP ELEVATION	NORTHING	EASTING
5038	8-G-XCEL-007	4893.61	62	4888.44	293443.09	187193.58
5038B	8-G-XCEL-007	4892.57	37	4889.49	293484.96	187199.10
5040	8-C-ZAYO-056	4899.42	44	4895.75	296051.01	186247.13
5041	8-W-ELCO-010	4899.17	63	4893.92	296042.46	186216.94
5042	8-C-CNL-051	4899.11	14	4897.94	296042.66	186216.22
5043	8-C-CNL-051	4901.34	20	4899.67	296806.38	186042.98
5044	8-C-ZAYO-056	4902.21	72	4896.21	296809.74	186071.28
5045	8-W-GW-002	4902.16	72	4896.16	296802.53	186019.10
5046	8-E-FCLP-020/021	4921.53	76	4915.20	304409.43	185911.18
5047	8-E-FCLP-020/021	4921.99	74	4915.83	304455.01	185908.99
5048	8-E-FCLP-020/021	4922.11	52	4917.78	304522.62	185909.92
5049	8-C-TDS-001	4923.61	46	4919.77	304529.05	185890.37
5050	8-C-CNL-062	4922.08	30	4919.58	304527.71	185895.89
5051	8-IR-SD-002	4900.67		4899.77	294502.94	186612.24
5052	8-IR-SD-002	4900.33		4899.33	294501.31	186567.87
5053	8-W-ELCO-012	4897.31	54	4892.81	294382.10	186841.25
5054	8-C-CNL-040	4897.40	28	4895.07	294382.25	186841.77
5055	8-C-ZAYO-059	4897.78	37	4894.70	294330.88	186612.26

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NORTH I-25 EXPRESS LANES
GENERAL INFO AND LOCATION DATA TABLES
UTILITY PLAN

Designer: S. Bartels
Detailer: A. Harr
Sheet Subset: UTIL-GEN

Structure Numbers
Subset Sheets: 4 of 4

Project No./Code
IM 0253-255
21506
Sheet Number 645

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NORTH I-25 EXPRESS LANES NB & SB I-25 UTILITY PLAN

Designer: S. Bartels
Detailer: A. Harr
Sheet Subset: UTIL

Structure
Numbers

Subset Sheets: 4 of 20

Project No./Code

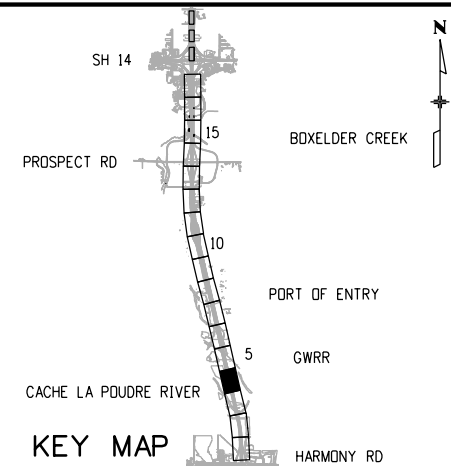
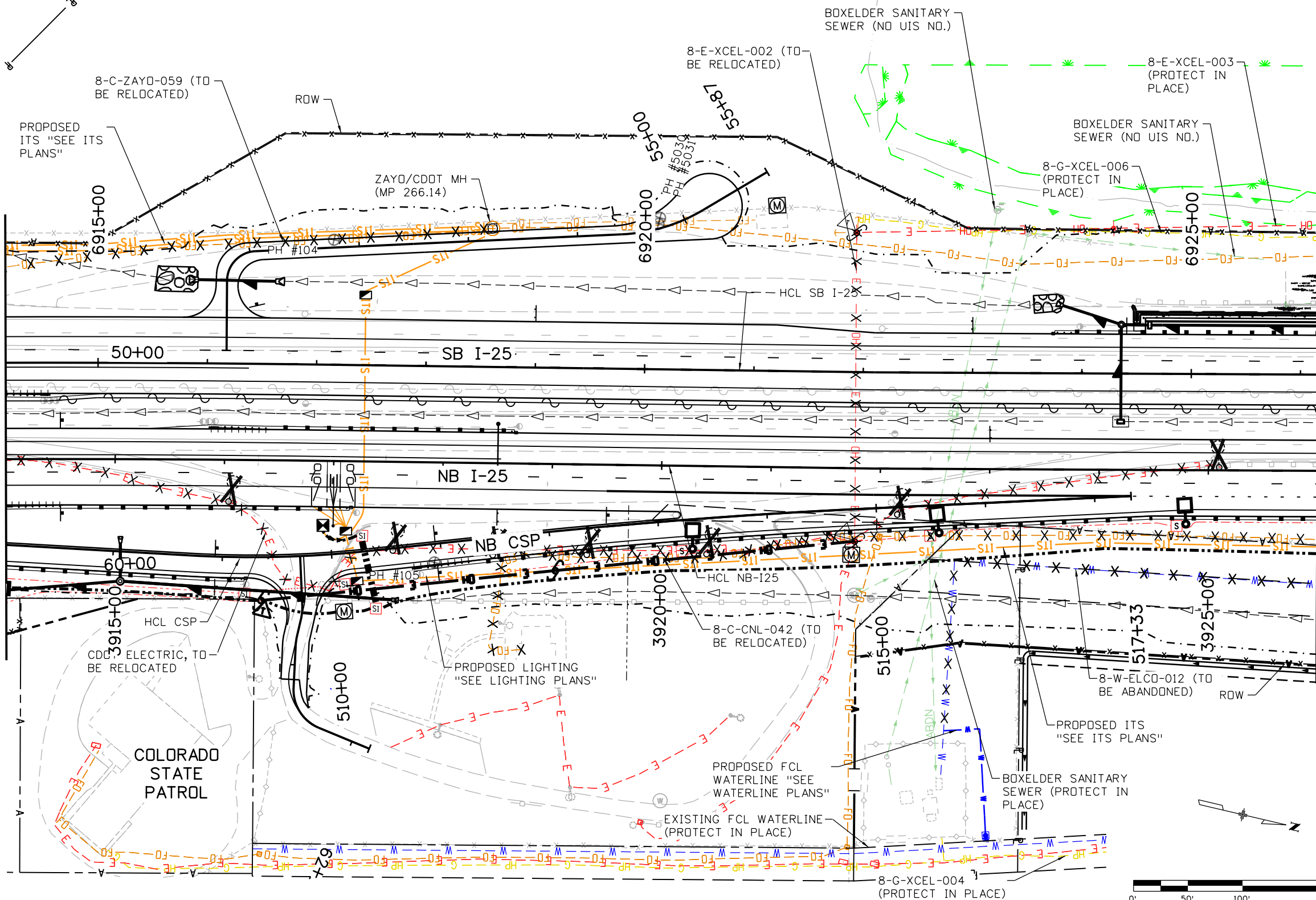
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Number 649

MATCHLINE 3914+00
HCL NB I-25

MATCHLINE 3926+00
HCL NB I-25



LEGEND:

X-X-X UTILITY REMOVAL
⊕ POTHOLE # XX

UTILITY ID KEY
X-X-XXXX-XX
UNIQUE ID
OWNER **
UTILITY TYPE *
SEGMENT NO. (1-8,
UTILITY MATRIX
BASE DESIGN)

UTILITY TYPE *

C - FIBER OPTIC/COMMUNICATIONS
E - ELECTRIC
G - GAS
W - WATER
ST - STORM SEWER
SS - SANITARY SEWER
IR - IRRIGATION

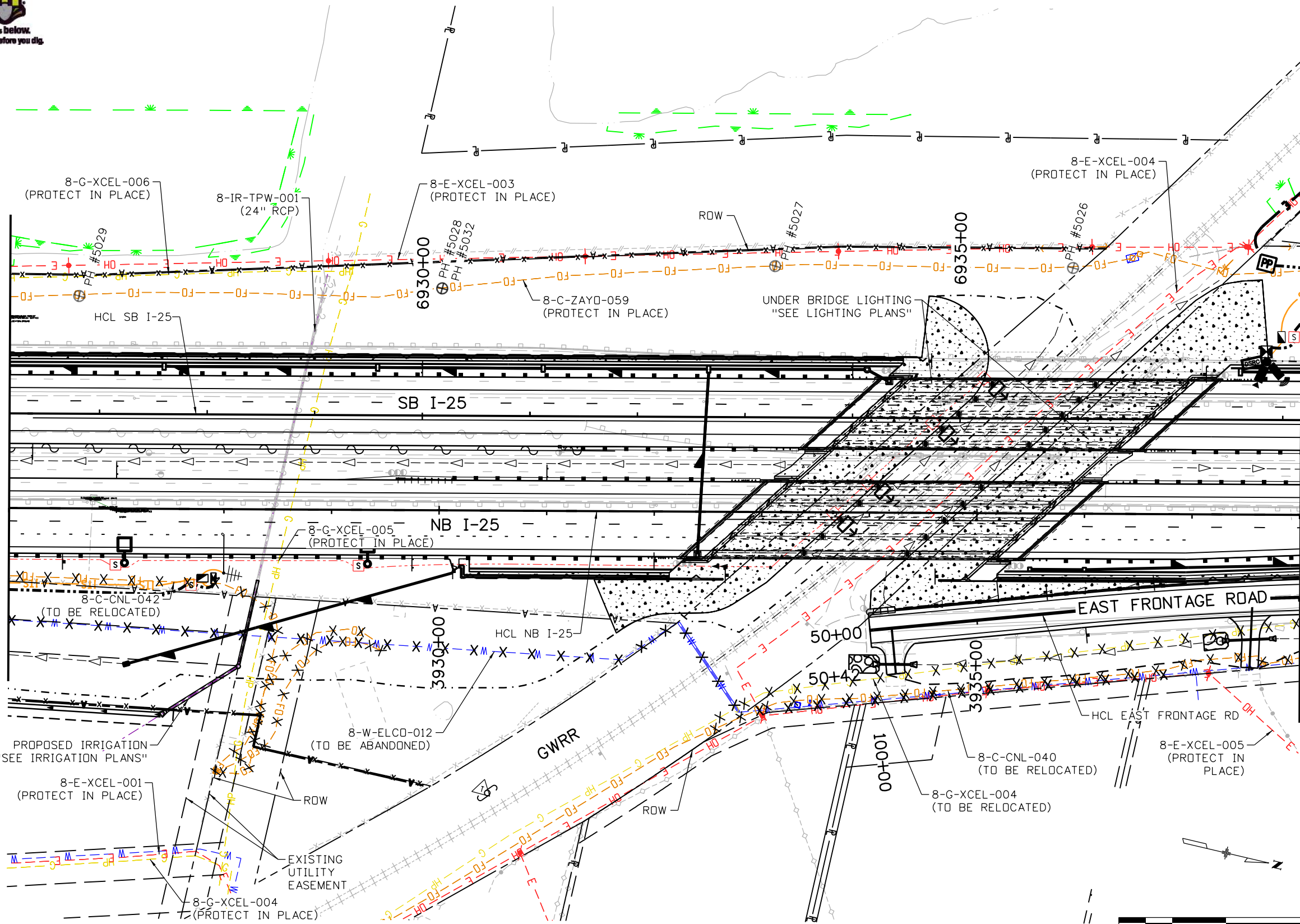
UTILITY OWNERS **

BED - BOXELDER DITCH
BES - BOXELDER SANITATION DISTRICT
CDOT - COLORADO DEPARTMENT OF TRANSPORTATION
CLPR - CACHE LA POUDRE RESERVOIR COMPANY
CMC - COMCAST
CNL - CENTURY LINK LOCAL
CYO - COLORADO YOUTH OUTDOOR
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XCEL - ELECTRIC AND GAS
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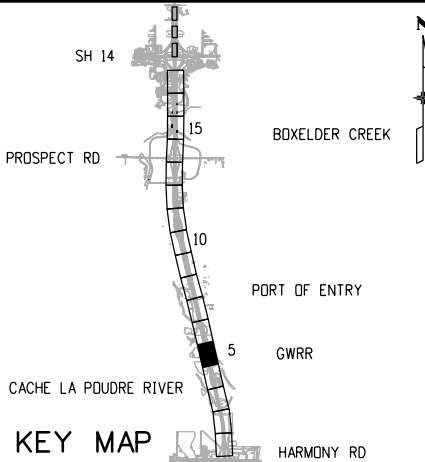


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MATCHLINE 3926+00
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HCL NB I-25



- LEGEND:**
- X-X-X UTILITY REMOVAL
 - ⊕ POTHOLE # XX
 - UTILITY ID KEY
X-X-XXXX-XXX
UNIQUE ID
OWNER **
UTILITY TYPE *
SEGMENT NO. (1-8,
UTILITY MATRIX
BASE DESIGN)
 - UTILITY TYPE *
 - C - FIBER OPTIC/COMMUNICATIONS
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NORTH I-25 EXPRESS LANES
NB & SB I-25
UTILITY PLAN

Designer: S. Bartels
Detailer: A. Harr
Sheet Subset: UTIL
Structure Numbers
Subset Sheets: 5 of 20

Project No./Code

IM 0253-255
21506
Sheet Number 650

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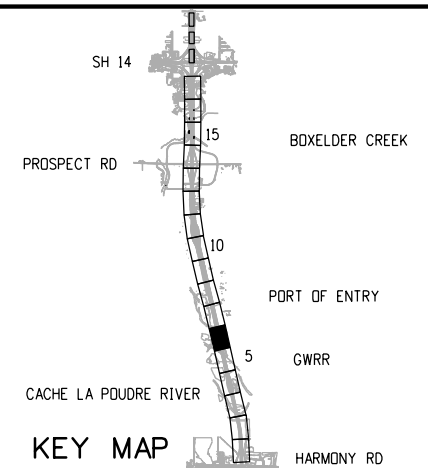
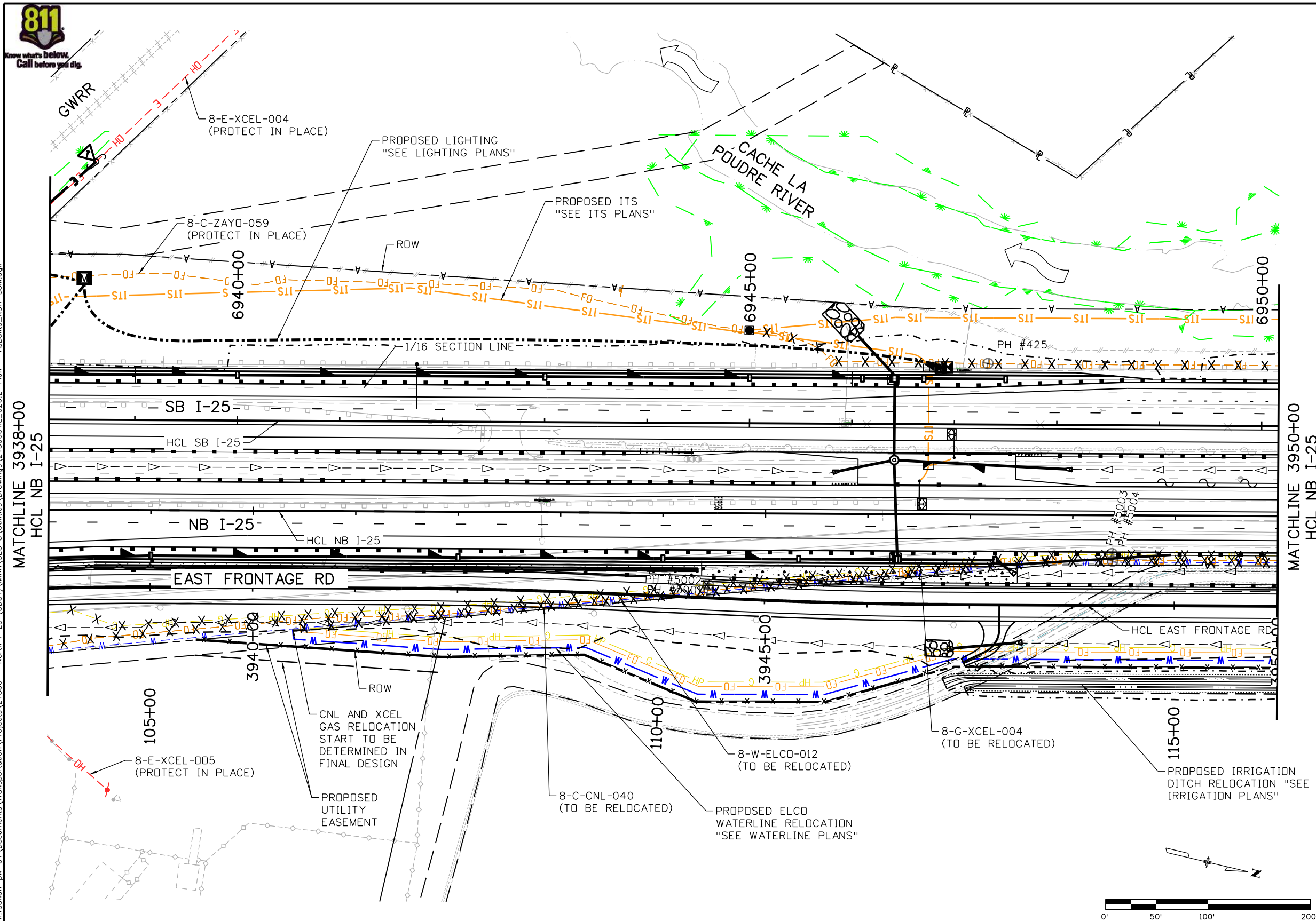
Designer: S. Bartels
Detailer: A. Harr
Sheet Subset: UTIL
Subset Sheets: 6 of 20

Project No./Code

IM 0253-255

21506

Sheet Number 651



LEGEND:

X-X-X UTILITY REMOVAL
⊕ POTHOLE # XX

UTILITY ID KEY

X-X-XXXX-XXX

UNIQUE ID

OWNER **

UTILITY TYPE *

SEGMENT NO. (1-8,

UTILITY MATRIX

BASE DESIGN)

UTILITY TYPE *

C - FIBER OPTIC/COMMUNICATIONS
E - ELECTRIC
G - GAS
W - WATER
ST - STORM SEWER
SS - SANITARY SEWER
IR - IRRIGATION

UTILITY OWNERS **

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POINT No.	UTILITY / DESCRIPTION		GROUND ELEVATION	UTILITY ELEVATION	NORTHING	EASTING	SEGMENT
500	Guy Wire		4903.97		301481.81	184575.84	SEG 5
501	Pole 0.5W,	Actual pole 6" East of shot	4904.80		301481.47	184594.14	SEG 5
502	Guy Wire		4902.84		301472.59	184753.02	SEG 5
503	pole0.75S	Actual pole 9" North of shot	4903.45		301476.46	184753.59	SEG 5
504	pole0.75W	Actual pole 9" East of shot	4904.54		301496.40	184973.32	SEG 5
505	pole0.75S1	Actual pole 9" North of shot	4905.73		301507.36	185107.55	SEG 5
506	Guy Wire		4904.52		301509.20	185126.58	SEG 5
507	pole0.75E	Actual pole 9" West of shot	4905.40		301555.94	185103.91	SEG 5
508	Guy Wire		4904.62		301554.02	185084.78	SEG 5
509	pole0.75N	Actual pole 9" South of shot	4905.26		301574.02	185286.71	SEG 5
510	Guy Wire		4905.06		301552.37	185280.31	SEG 5
511	Guy Wire		4905.26		301574.83	185307.80	SEG 5
512	Guy Wire		4906.50		301802.95	185336.87	SEG 5
513	pole1.0N	Actual pole 1' South of shot	4906.71		301797.28	185356.13	SEG 5
514	pole0.75S2	Actual pole 9" North of shot	4908.38		302017.22	185457.94	SEG 5
515	pole0.75E1	Actual pole 9" West of shot	4910.11		302165.98	185526.17	SEG 5
516	Guy Wire		4909.27		302162.77	185534.95	SEG 5
517	pole0.75S3	Actual pole 9" North of shot	4911.52		302384.29	185563.82	SEG 5
518	pole1.0W	Actual pole 1' East of shot	4912.81		302515.46	185585.69	SEG 5
519	Guy Wire		4911.89		302518.04	185568.30	SEG 5
520	Guy Wire		4912.27		302540.19	185590.92	SEG 5
521	Brace0.75W	Actual brace 9" East of shot	4912.79		302636.92	185649.80	SEG 5
522	Guy Wire		4913.58		302629.53	185658.07	SEG 5
523	pole0.75E2	Actual pole 9" West of shot	4914.06		302650.89	185658.20	SEG 5
524	guy11		4902.19		301193.05	185013.57	SEG 5
525	pole0.75ftW	Actual pole 9" West of shot	4903.72		301190.50	185031.46	SEG 5
526	pole0.75ftE	Actual pole 9" East of shot	4902.94		301160.61	185180.90	SEG 5
527	guy12		4902.47		301170.44	185187.95	SEG 5
528	pole0.75ftE1	Actual pole 9" East of shot	4902.88		301104.80	185242.35	SEG 5
529	guy13		4902.36		301112.31	185254.64	SEG 5
530	pole0.75ftS	Actual pole 9" South of shot	4902.37		300891.79	185304.22	SEG 5
531	pole0.75ftS1	Actual pole 9" South of shot	4902.16		300639.60	185367.09	SEG 5
532	pole0.75ftW1mtr	Actual pole 9" West of shot	4901.84		300387.71	185430.91	SEG 5
533	pole0.75ftS2	Actual pole 9" South of shot	4901.02		300143.52	185491.37	SEG 5
534	guy14		4900.55		300146.42	185479.85	SEG 5
535	guy15		4900.41		300126.56	185495.29	SEG 5
536	brace0.75ftE	Actual pole 9" East of shot	4902.63		300103.45	185613.98	SEG 5
537	pole0.75ftE2	Actual pole 9" East of shot	4901.62		300101.32	185624.31	SEG 5
538	tiein-6ft		4904.70	4898.70	300463.57	185600.56	SEG 5
539	gas-4		4901.147	4897.15	300419.64	185409.21	SEG 5
540	gas-4_1		4901.997	4898.00	300669.34	185346.29	SEG 5
541	gas-4_2		4902.027	4898.03	300778.88	185319.45	SEG 5
542	gas-3.5		4901.821	4898.32	300908.09	185287.60	SEG 5
543	gas-2.84_1		4902.298	4899.46	301098.92	185239.10	SEG 5
544	gas-2.92		4902.408	4899.49	301133.96	185205.91	SEG 5
545	gas-2.84		4902.317	4899.48	301158.82	185174.25	SEG 5
546	gas-3		4902.35	4899.35	301189.37	184932.20	SEG 5
547	gas-3.5_2		4901.588	4898.09	301215.94	184728.88	SEG 5
548	gas-3_1		4904.503	4901.50	301241.36	184603.33	SEG 5
549	gas-noelev	Waiting on bore log from Xcel	4904.124		301245.45	184587.15	SEG 5
550	gasnoelev1	Waiting on bore log from Xcel	4904.9		301306.63	184585.55	SEG 5
551	gasnoelev2	Waiting on bore log from Xcel	4904.946		301344.24	184582.52	SEG 5
552	gasnoelev3	Waiting on bore log from Xcel	4905.477		301389.21	184577.96	SEG 5
553	gasnoelev4	Waiting on bore log from Xcel	4904.02		301429.34	184572.61	SEG 5
554.0	gas-3.5_3		4903.9	4900.4	301492.0	184571.0	SEG 5
555	gas-3_2		4904.533	4901.53	301644.18	184560.04	SEG 5
556	gas-3.5_1		4905.31	4901.81	301741.59	184552.51	SEG 5

***AS-BUILT PLAN NOTES**

1. AS-BUILT INFORMATION DEPICTED ON THESE PLANS WAS DEVELOPED FROM BEST AVAILABLE SURVEY METHODS. FOR FUTURE USE, THIS INFORMATION MAY BE USED TO DISPLAY THE AS-BUILT CONDITION AS QUALITY LEVEL D (QLD). ADDITIONAL SURFACE GEOPHYSICAL LOCATING METHODS (QLB DESIGNATING) AND/OR TEST HOLES (QLA) MAY BE NEEDED AS REQUIRED UNDER COLORADO'S SUBSURFACE UTILITY LAW (SB18-167) AND ASCE 38 STANDARDS.

2. WHERE A SPECIFIC UTILITY HAS BEEN PHYSICALLY REMOVED IN THE FIELD, SUCH AS AN OVERHEAD ELECTRIC LINE, THE UTILITY HAS ALSO BEEN REMOVED FROM THE EXISTING UTILITY BASE FILE AND WILL NO LONGER BE DISPLAYED IN ANY SUBSEQUENT SUBMITTAL.

3. WHERE A UTILITY HAS BEEN ABANDONED IN PLACE (RELOCATED) THE ORIGINAL UTILITY LOCATION IS STILL SHOWN BUT LABELED AS ABANDONED.

4. THE EXISTING UTILITY BASE FILE HAS BEEN UPDATED AND AS-BUILT UTILITIES ARE NOW DISPLAYED IN THE NEW SURVEYED LOCATION USING THE APPROPRIATE EXISTING UTILITY LINSTYLE.

Print Date: 10/19/2020
File Name: 21506UTIL_026.2-Plan - AsBuilt\\AsBuilt_RSH-S5M.dgn
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Sheet Revisions		
Date:	Comments	Init.



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Region 4 CJS

As Constructed

No Revisions:

Revised:

Void:

**NORTH I-25 EXPRESS LANES
AS BUILT DATA TABLE
UTILITY PLAN**

Designer:

S. Bartels

Detailer:

M. Hernandez

Sheet Subset:

UTIL

Structure

Numbers

Subset Sheets:

19 of 20

Project No./Code

IM 0253-255

21506

Sheet Number

664

Segment 5M - RFC - CDOT - 10.19.2020

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POINT No.	UTILITY / DESCRIPTION		GROUND ELEVATION	UTILITY ELEVATION	NORTHING	EASTING	SEGMENT
557	gas-3.5tie		4905.64	4902.14	301741.42	184531.28	SEG 5
558	gasnoelev	Waiting on bore log from Xcel	4904.83		301487.54	184492.70	SEG 5
559	gasnoelev5	Waiting on bore log from Xcel	4905.44		301486.56	184457.52	SEG 5
560	gasexact+2.67		4903.67	4901.00	301453.48	184414.94	SEG 5
561	bendexct+2.67		4903.72	4901.05	301436.77	184414.52	SEG 5
562	tie-3		4903.20	4900.20	301437.22	184338.27	SEG 5
563	gas-3_3		4903.84	4900.84	301484.12	184417.78	SEG 5
564	pole0.75W1	Existing pole	4904.62		301422.13	184563.61	SEG 5
565	guyapprox	Approximately guy wire	4904.36		301409.96	184556.46	SEG 5

*AS-BUILT PLAN NOTES

1. AS-BUILT INFORMATION DEPICTED ON THESE PLANS WAS DEVELOPED FROM BEST AVAILABLE SURVEY METHODS. FOR FUTURE USE, THIS INFORMATION MAY BE USED TO DISPLAY THE AS-BUILT CONDITION AS QUALITY LEVEL D (QLD). ADDITIONAL SURFACE GEOPHYSICAL LOCATING METHODS (QLB DESIGNATING) AND/OR TEST HOLES (QLA) MAY BE NEEDED AS REQUIRED UNDER COLORADO'S SUBSURFACE UTILITY LAW (SB18-167) AND ASCE 38 STANDARDS.

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File Name: 21506UTIL_026.2-Plan - AsBuilt.s_RSH-S5M.dgn	
Horiz. Scale: 1:1	Vert. Scale: As Noted



Sheet Revisions		
Date:	Comments	Init.

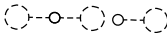


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As Constructed	NORTH I-25 EXPRESS LANES AS BUILT DATA TABLE UTILITY PLAN			Project No./Code
No Revisions:				IM 0253-255
Revised:	Designer: S. Bartels	Structure		21506
	Detailer: M. Hernandez	Numbers		
Void:	Sheet Subset: UTIL	Subset Sheets: 20 of 20		Sheet Number 665

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LIGHTING LEGEND

-  EXISTING LIGHT STANDARD TO REMAIN.
- LR5.01



 EXISTING LIGHT STANDARD TO BE REMOVED.
- 

 NEW TYPE 'LT' - CDOT CDOT LEOTEK, LED GCM H-SERIES, 3000K COLOR TEMPERATURE, TYPE 2 DISTRIBUTION, WITH 7-PIN RECEPTACLE. RAMP LIGHT ON 40' POLE.
- 

 TYPE 'LA' - CITY/PRIVATE LED STREET/PARKING LOT LIGHTING ON 30' POLE UNLESS NOTED OTHERWISE.
- 

 TYPE 'LB' - CITY/PRIVATE DOUBLE HEAD LED STREET/PARKING LOT LIGHTING ON 30' POLE UNLESS NOTED OTHERWISE.
- 

 INTERSECTION LIGHT ON TRAFFIC SIGNAL POLE
- 

 NEW TYPE 'C1' - PEDESTRIAN CULVERT LUMINAIRE
- 

 TYPE 'U' - CDOT LED UNDERDECK LIGHT.
- 

 11" x 18" SPLICE BOX - CDOT.
- 

 13" x 24" SPLICE BOX - CDOT.
- 

 LIGHTING CONTROL CENTER WITH FORT COLLINS LIGHT AND POWER METER - CDOT PAY ITEM #613-50100 "LIGHTING CONTROL CENTER".
'LCC' = LIGHTING SYSTEM METER. COMBINE METERS ON SINGLE RACK WHEN POSSIBLE.
- 

 NEW REMOTE COMBINATION METER/POWER PEDESTAL BY POUDE VALLEY REA.
MPV### - 'V' = DENOTES POUDE VALLEY REA COMBINATION METER/MAIN.
- 

 NEW LIGHTING/LOAD PANEL - CDOT PAY ITEM #613-50106 "LIGHTING CONTROL CENTER (SPECIAL)". LC OR MP# AS INDICATED ON THE PLANS. LC = LIGHTING, MPA = CDOT ITS, MPB = TOLLING.
- 

 2" SCHEDULE 80 PVC CONDUIT - CDOT.
- 

 3" SCHEDULE 80 PVC CONDUIT - CDOT.
- 

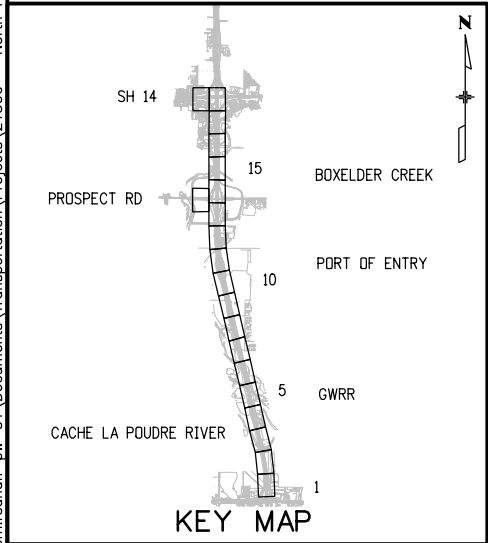
 2" SCHEDULE 80 PVC CONDUIT - PRIVATE/CITY.
- 

 3" SCHEDULE 80 PVC CONDUIT - PRIVATE/CITY.
- 

 HOMERUN ARROW - NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS.
- 

 NEW PROPOSED UNDERGROUND ELECTRIC BY UTILITY COMPANY.
- 

 NEW PROPOSED OVERHEAD ELECTRIC BY UTILITY COMPANY.



ELECTRICAL LEGEND - EXISTING

-  EXISTING POLE MOUNTED TRANSFORMER.
- 

 EXISTING PAD MOUNTED TRANSFORMER.
- 

 EXISTING UTILITY POWER PEDESTAL
- 

 EXISTING METER.
- 

 EXISTING UTILITY SWITCH
- 

 EXISTING UTILITY JUNCTION BOX

ELECTRICAL LEGEND - PROPOSED

- 

 NEW (1) 3" SCHEDULE 80 PVC SLEEVE UNDER ROADWAY (DIRECTIONAL BORE) TERMINATING IN SPLICE BOXES (24"x13"x12" DEEP) AT EACH END UNLESS NOTED OTHERWISE ON THE PLANS.
- 

 NEW ITS POWER CIRCUIT (3#4 THWN CU &1#8 GND) IN 2" SCHEDULE 80 PVC CONDUIT UNLESS NOTED OTHERWISE ON PLANS.
- 

 NEW POWER PEDESTAL (BY UTILITY COMPANY)
- 

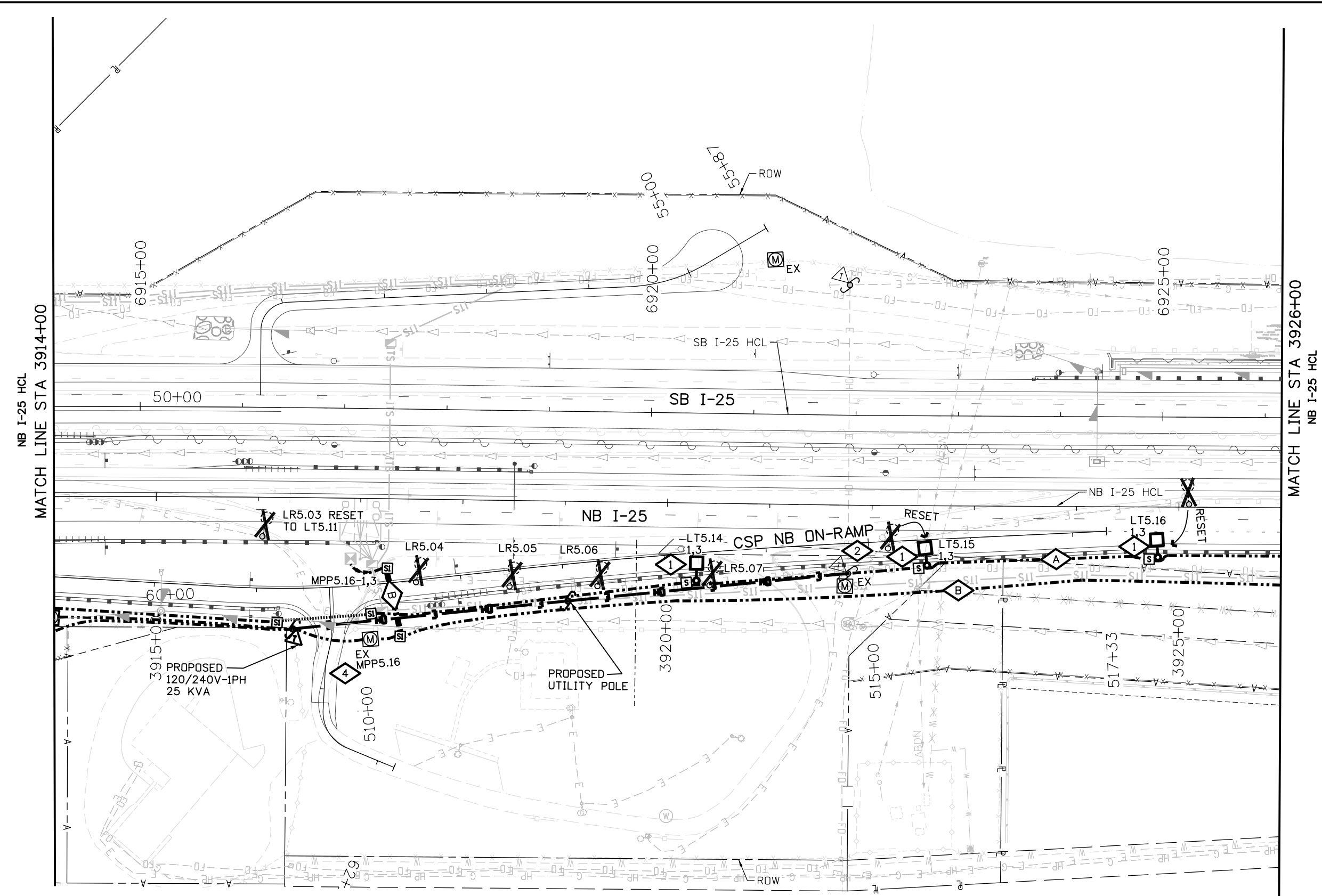
 NEW OR UPGRADED TRANSFORMER ON EXISTING OVERHEAD ELECTRIC POLE.
- 

 NEW OVERHEAD ELECTRIC POLE BY UTILITY COMPANY.
- 

 NEW PAD MOUNTED TRANSFORMER BY UTILITY COMPANY.
- 

 LIGHTING CONTROL CENTER WITH FORT COLLINS LIGHT AND POWER UTILITY METER - CDOT PAY ITEM #613-50100 "LIGHTING CONTROL CENTER".
CDOT ITS METER. COMBINE METERS ON SINGLE RACK WHEN POSSIBLE.

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KEY MAP

SH 14
PROSPECT RD
BOXELDER CREEK
PORT OF ENTRY
GWRR
CACHE LA POUDRE RIVER

CONSTRUCTION NOTES:

- FOUNDATION ON STEEP SLOPE REFER TO CDOT M&S STANDARDS FOR DETAILS.
- METER PEDESTAL AND LIGHTING CONTROL CENTER LOCATIONS AND FOUNDATIONS TO BE COORDINATED WITH CIVIL AND STRUCTURAL ENGINEERS FOR ACCESS, GRADING, FOUNDATION DESIGNS AND POTENTIAL NEED FOR A WALL. DETAILS TO BE DEVELOPED.
- FINAL DESIGN AND ALIGNMENT OF ELECTRIC UTILITY FEED TO BE DETERMINED BY XCEL ENERGY.
- RESET AND USE EXISTING POE WIM EQUIPMENT METER FOR NEW POE WIM LOCATION.

A 3#6 THWN CU & 1#6 GND (ROADWAY LIGHTING). 3#8 THWN CU & 1#6 GND (UNDERDECK LIGHTING)

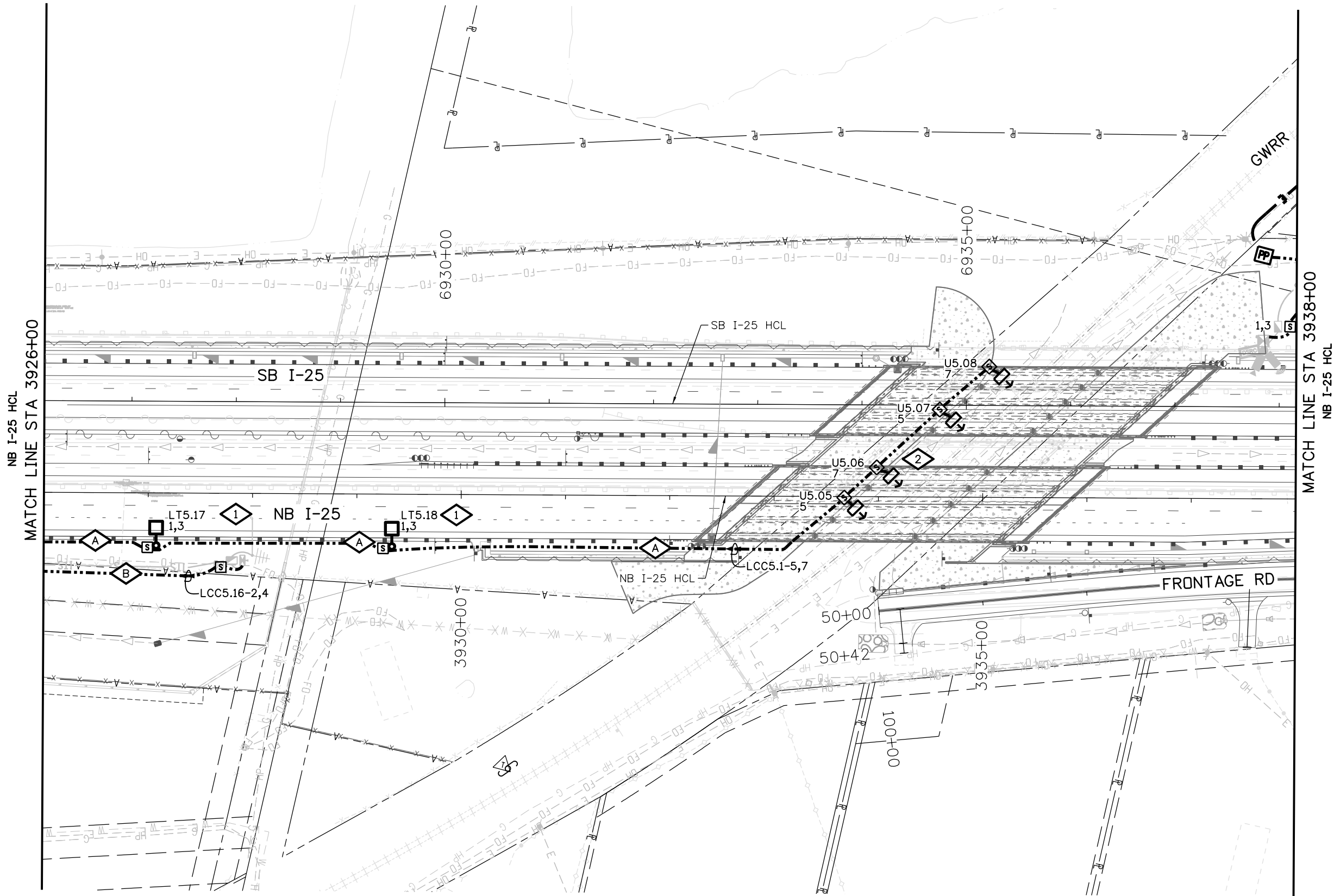
B 3#6 THWN CU & 1#6 GND (POE EQUIPMENT).

811
Know what's below.
Call before you dig.

0' 50' 100' 200'

Print Date: 10/19/2020		0000	Sheet Revisions			CDOT CO 10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 Region 4 CJS	As Constructed		NORTH I-25 EXPRESS LANES NB & SB I-25 LIGHTING PLAN			Project No./Code		
File Name: 21506POWER_Plan-I-25-S5M.dgn			Date:	Comments	Init.		No Revisions:					IM 0253-255		
Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:		Designer: B. NELSON		Structure		21506	
CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING KRAEMER ILB a joint venture							Void:		Detailer: T. BABCOCK		Numbers		Sheet Number	
									Sheet Subset: LIGHTING		Subset Sheets: 5 of 34		670	

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KEY MAP

CONSTRUCTION NOTES:

- 1 FOUNDATION ON STEEP SLOPE REFER TO CDOT M&S STANDARDS FOR DETAILS.
- 2 ROUTE CONDUIT UP BRIDGE COLUMN TO UNDERDECK LIGHTS, SEE DETAILS.
- A 3#6 THWN CU & 1#6 GND (ROADWAY LIGHTING). 3#8 THWN CU & 1#6 GND (UNDERDECK LIGHTING)
- B 3#6 THWN CU & 1#6 GND (PDE EQUIPMENT).

811
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KRAEMER a joint venture

Sheet Revisions			
Date:	Comments	Init.	

Colorado Department of Transportation

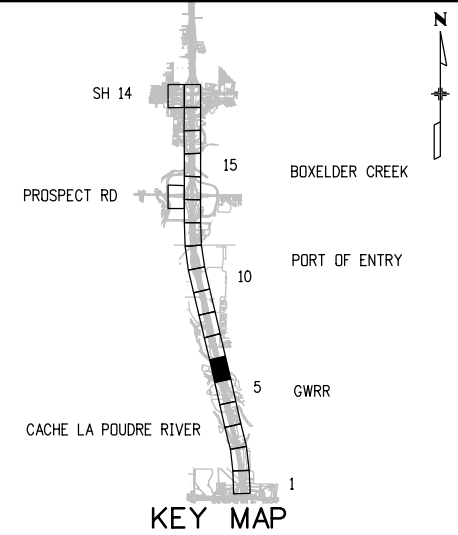
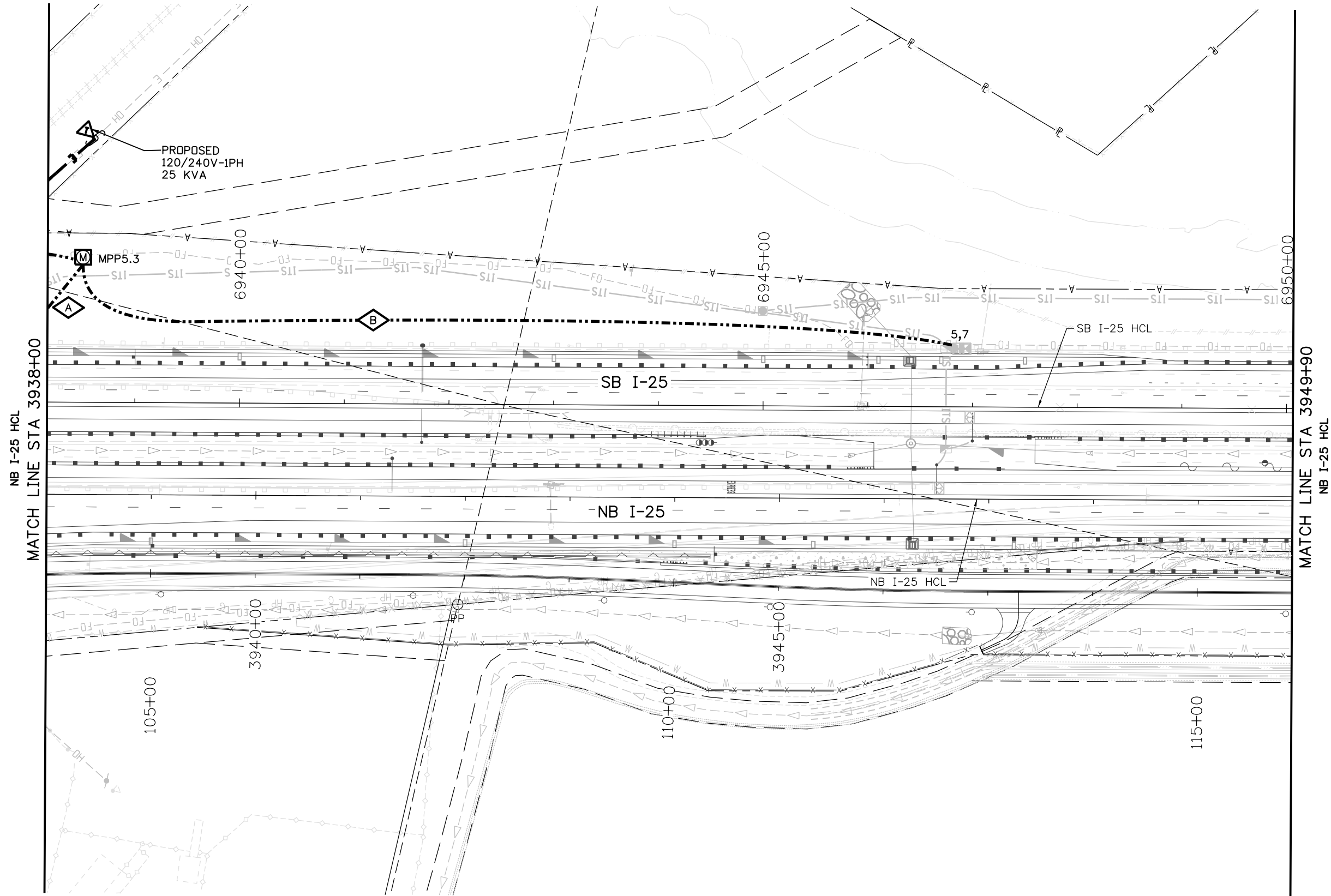
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Region 4

CJS

As Constructed		NORTH I-25 EXPRESS LANES NB & SB I-25 LIGHTING PLAN			Project No./Code	
No Revisions:					IM 0253-255	
Revised:		Designer: B. NELSON	Structure		21506	
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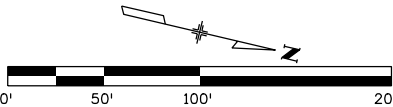
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- CONSTRUCTION NOTES:**
- A** 3#10 THWN CU & 1#10 GND (MVRD, DSRC, CCTV).
 - B** 3#4 THWN CU & 1#4 GND (TOLL POINT).



Know what's below.
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CLANTON & ASSOCIATES
LIGHTING DESIGN AND ENGINEERING



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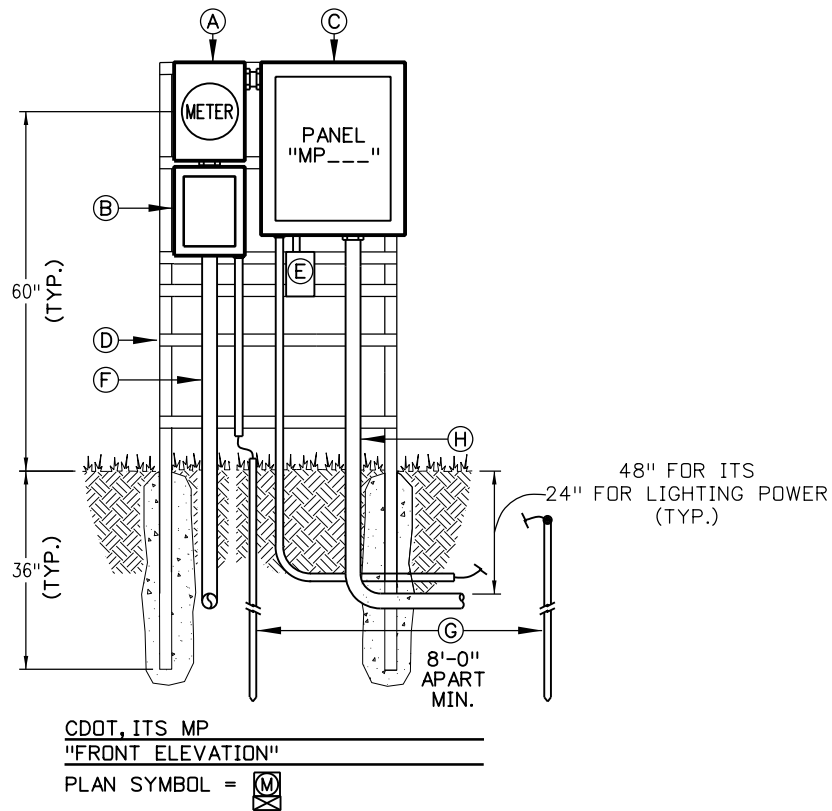
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NORTH I-25 EXPRESS LANES NB & SB I-25 LIGHTING PLAN			
Designer:	B. NELSON	Structure	
Detailer:	T. BABCOCK	Numbers	
Sheet Subset:	LIGHTING	Subset Sheets:	7 of 34

Project No./Code
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21506
Sheet Number 672

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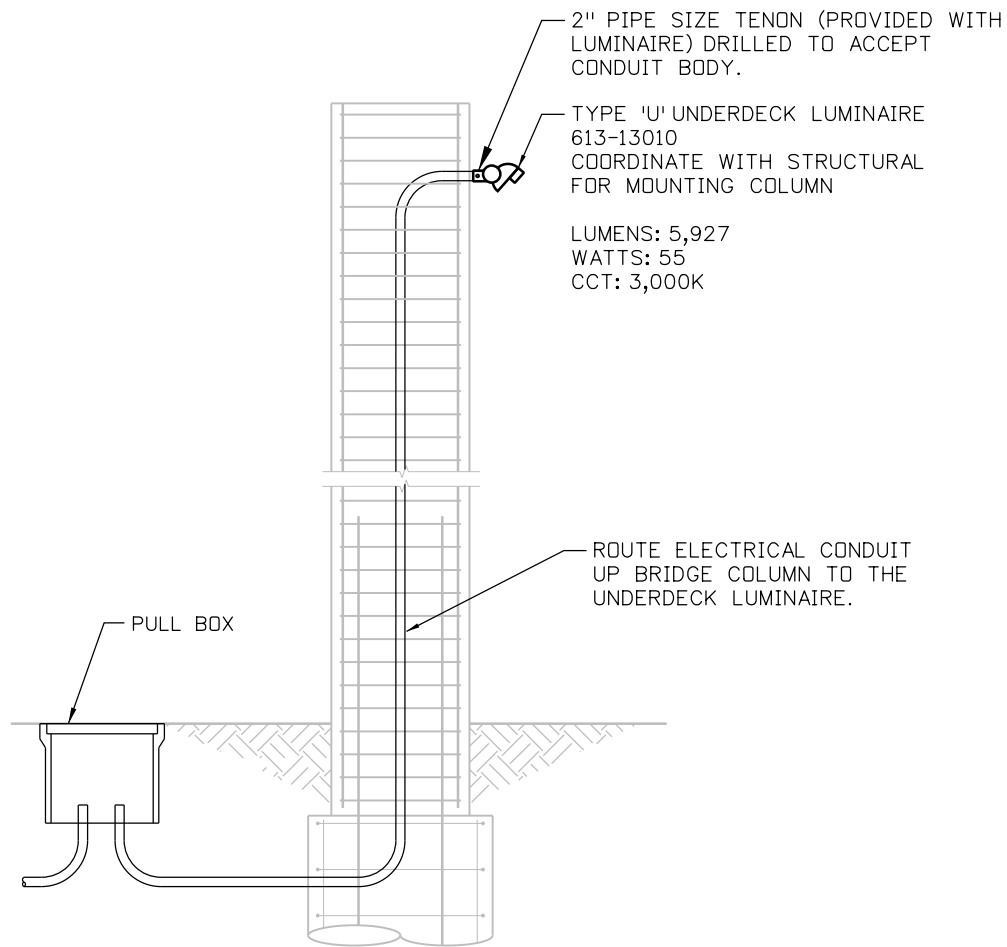
1 **06** **DETAIL - TYPICAL PAY ITEM: "LIGHTING CONTROL CENTER" ELEVATION**
NOT TO SCALE

COMPONENT LIST

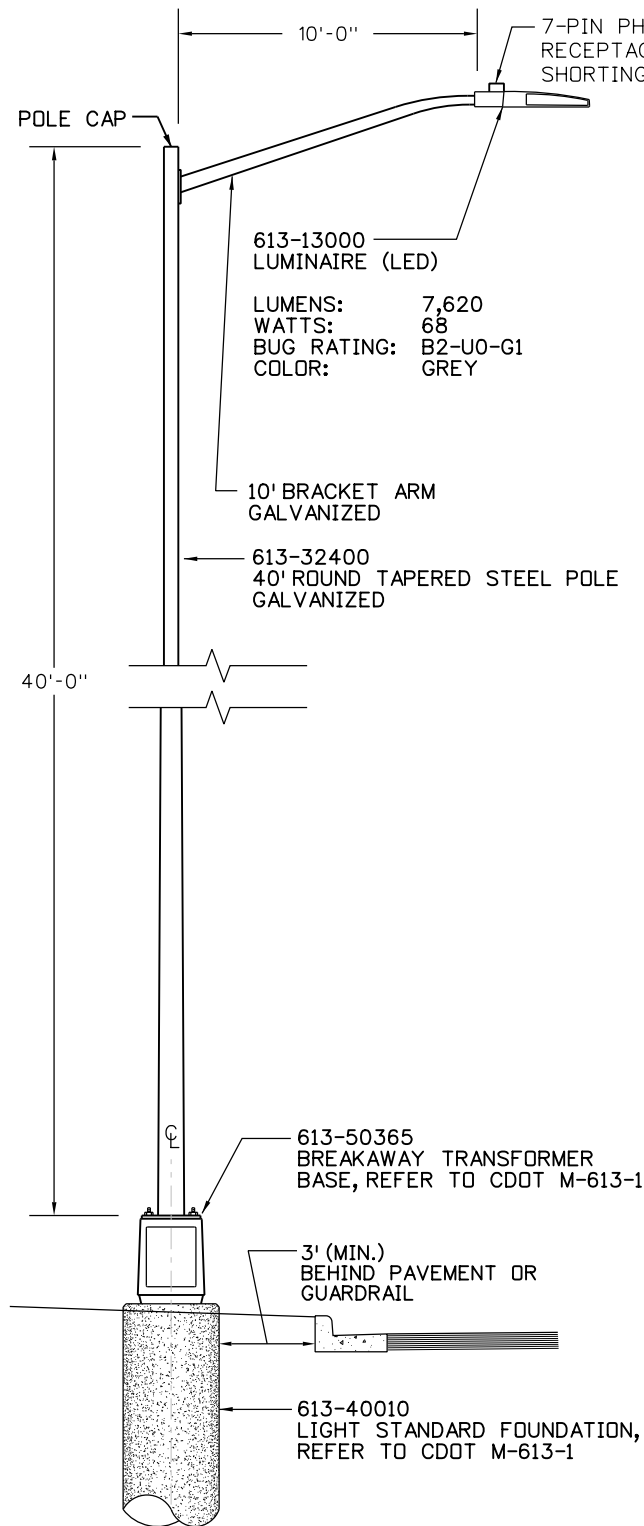
- (A) 200A, 120/240V, NEMA 3R METER HOUSING W/LEVEL BYPASS TO FORT COLLINS LIGHT AND POWER SPECIFICATIONS.
- (B) 200A, 250V, HEAVY DUTY, 2-POLE NEMA 3R SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH WITH GROUND AND NEUTRAL BARS.
- (C) 120/240V-1PH-3W, NEMA 3R LOAD CENTER SERVICE ENTRANCE RATED WITH NUMBER OF POLES, MAIN AND BRANCH BREAKERS AS LISTED ON THE PANEL SCHEDULE.
- (D) HEAVY DUTY, GALVANIZED 1 5/8"x1 5/8" C-CHANNEL RACKING W/A MINIMUM OF (6) CROSS BARS AND THREE (2" GALVANIZED RIGID CONDUIT W/CAPS) POSTS SET IN CONCRETE. PAINT TO MATCH PANEL COLOR.
- (E) GFCI DUPLEX MAINTENANCE RECEPTACLE IN A WEATHERPROOF BACK BOX AND METAL WHILE-IN-USE COVER. (2#12 THWN CU, & 1 #12 GND) IN 1/2" C.
- (F) INCOMING FEEDER FROM TRANSFORMER OR SECONDARY SERVICE PEDESTAL.
- (G) 3/4"x 10'-0" Lg, COPPER-CLAD DRIVEN GROUND ROD WITH EXOTHERMIC WELD OR UNDERGROUND LUG CONNECT CONDUCTOR TO ROD.
- (H) BRANCH FEEDER OUT TO ITS/LIGHTING DEVICES (SEE PLANS FOR SIZE AND NUMBER OF CONDUITS REQUIRED.)

Print Date: 10/19/2020			Sheet Revisions			CDOT CO Region 4	Colorado Department of Transportation		As Constructed		NORTH I-25 EXPRESS LANES LIGHTING AND ELECTRICAL DETAILS LIGHTING PLANS			Project No./Code		
File Name: 21506_Power_Detail_07 - S5.dgn			Date:	Comments	Init.		10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2148 FAX: 970-350-2163		No Revisions:		Designer: B. NELSON		Structure	IM 0253-255		
									Revised:		Detailer: M. CHASEN		Numbers	21506		
CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING									Void:		Sheet Subset:LTG Details		Subset Sheets: 27 of 34		Sheet Number 692	
LIGHTING DESIGN AND ENGINEERING 4999 NAUTILUS COURT SOUTH STE. 102 BOULDER, CO 80301 303-530-7229																

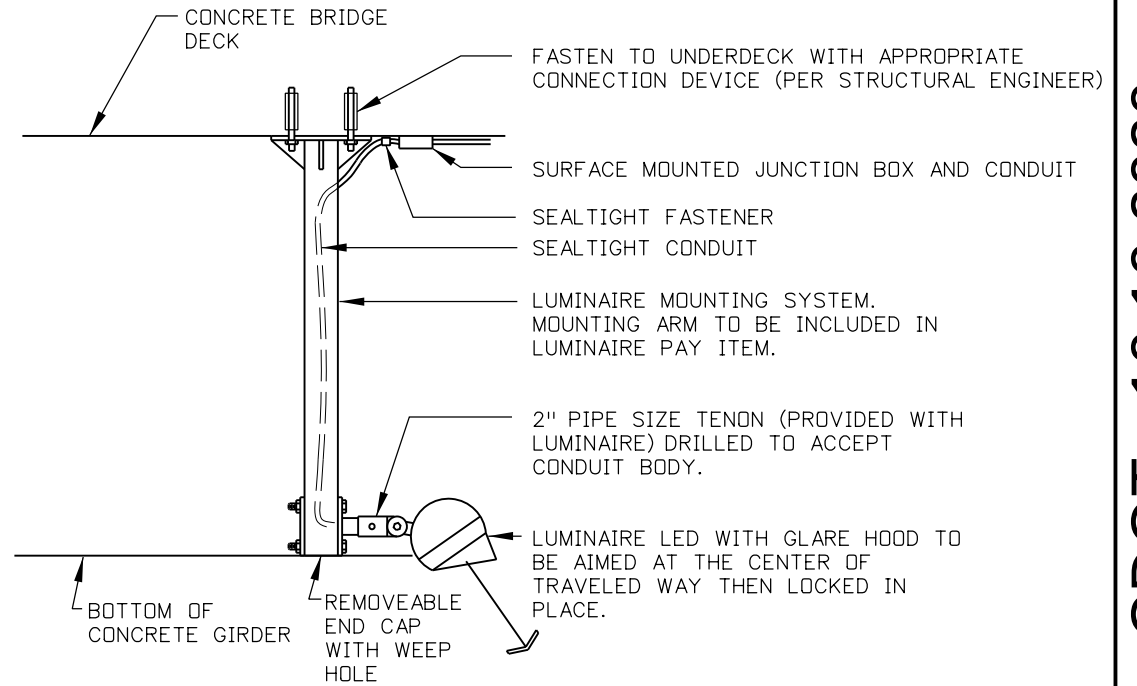
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1 LUMINAIRE - GWRR UNDERDECK (TYPE 'U')
28 NOT TO SCALE PLAN SYMBOL - (TYPE 'U')

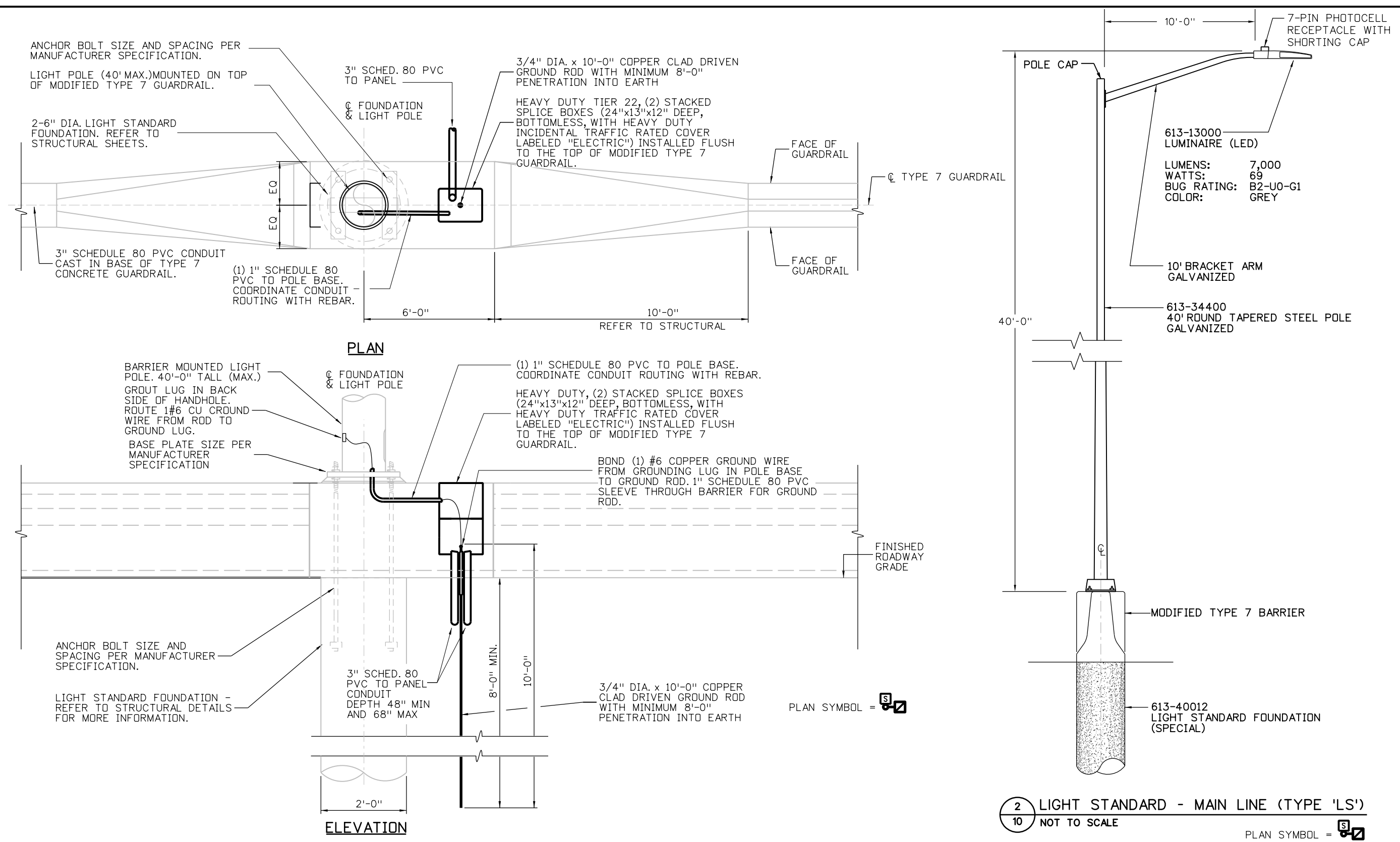


2 LIGHT STANDARD - RAMPS (TYPE 'LT')
28 NOT TO SCALE PLAN SYMBOL - (TYPE 'LT')



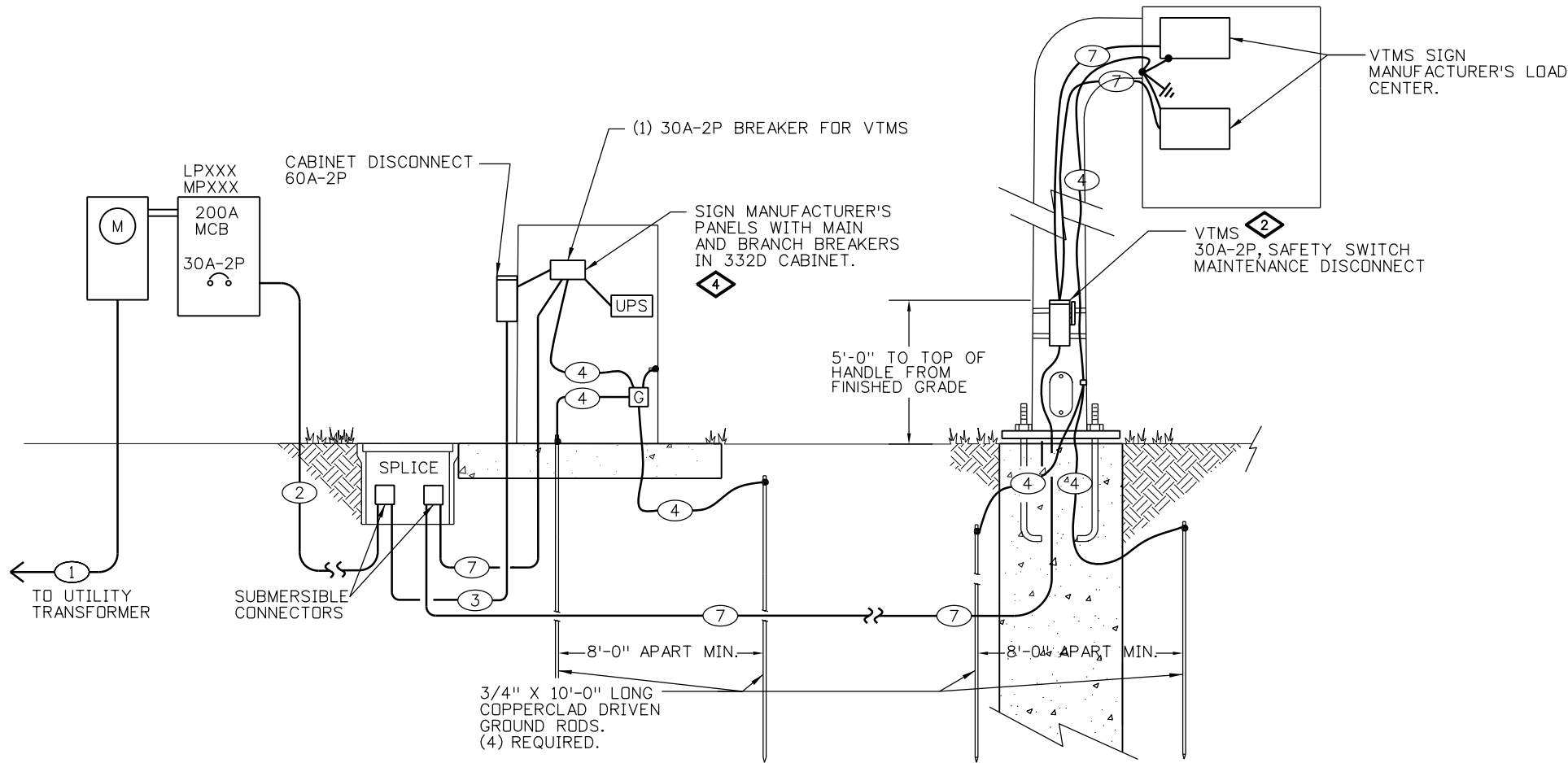
3 LUMINAIRE - CACHE LA POUDRE UNDERDECK PENDANT
28 NOT TO SCALE PLAN SYMBOL - (TYPE 'U')

Print Date: 10/19/2020		Sheet Revisions			Colorado Department of Transportation		As Constructed		NORTH I-25 EXPRESS LANES LIGHTING AND ELECTRICAL DETAILS LIGHTING PLANS			Project No./Code		
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LIGHTING DESIGN AND ENGINEERING														



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LIGHTING DESIGN AND ENGINEERING 4899 NAUTILUS COURT SOUTH STE. 102 BOULDER, CO 80501 303-530-7229										Sheet Subset:LTG Details Subset Sheets: 29 of 34		Sheet Number 694		

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FEEDER SCHEDULE

- 1 3 (#3/0 CU TRIPLEX) 2"PVC UNLESS OTHERWISE NOTED ON PLANS AND FEEDER SCHEDULE.
- 2 REFER TO FEEDER SCHEDULE FOR WIRE SIZE. SEE LIGHTING SUBSET SHEET 14.
- 3 (3#10 THWN CU & 1#10 GND) 2" PVC SAFETY SWITCH MAINTENANCE DISCONNECT.
- 4 (1#6 S.D.B.C. GND) 1/2"C
- 5 NOT USED
- 6 NOT USED
- 7 (2#10 (NON-UPS) 2#10 (UPS) THWN CU & 1#10 GND) 2" PVC TRANSITION TO 3/4" FLEX INTO AND OUT OF SAFETY SWITCH MAINTENANCE DISCONNECT.

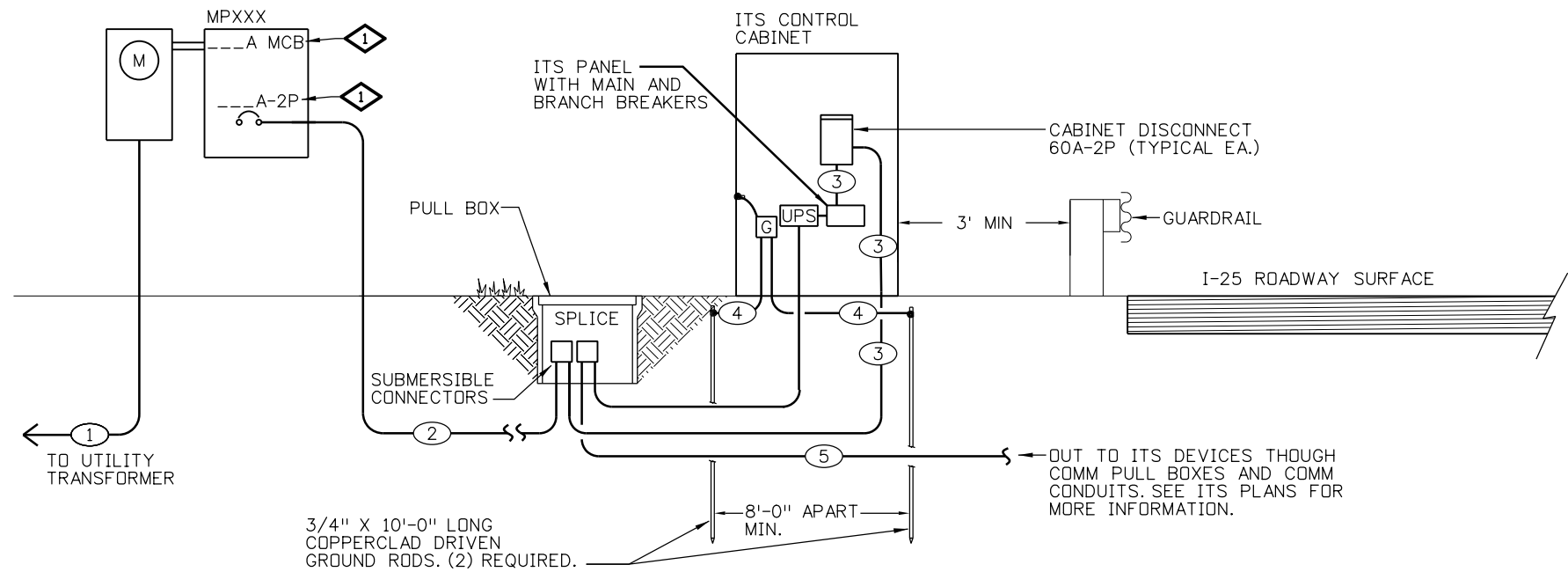
SHEET NOTES:

- 1 NOT USED.
- 2 EACH NEUTRAL OF THE TWO CIRCUITS SHALL REMAIN ISOLATED FROM EACH OTHER. ONE CIRCUIT IS FOR BATTERY BACKED UP LOADS AND THE OTHER IS FOR NON BATTERY BACKED UP LOADS.
- 3 NOT USED.
- 4 REFER TO SIGN MANUFACTURER SHOP DRAWING ADDITIONAL INFORMATION.

1 VTMS WITH DSRC, MVRD WIRING SCHEMATIC
05 NOT TO SCALE

Print Date: 10/19/2020	0000	Sheet Revisions			Colorado Department of Transportation		As Constructed	NORTH I-25 EXPRESS LANES LIGHTING AND ELECTRICAL DETAILS LIGHTING PLANS		Project No./Code
File Name: 21506_Power_Detail_10 - S5.dgn		Date:	Comments	Init.	 Region 4	10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2148 FAX: 970-350-2163 CJS	No Revisions:	Designer: B. NELSON	Structure	IM 0253-255
							Revised:	Detailer: M. CHASEN	Numbers	
 LIGHTING DESIGN AND ENGINEERING							Void:	Sheet Subset: LTG Details	Subset Sheets: 30 of 34	21506
4899 NAUTILUS COURT SOUTH STE. 102 BOULDER, CO 80501 303-530-7229										Sheet Number 695

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1 ITS CONTROL CABINET WIRING SCHEMATIC
02 NOT TO SCALE

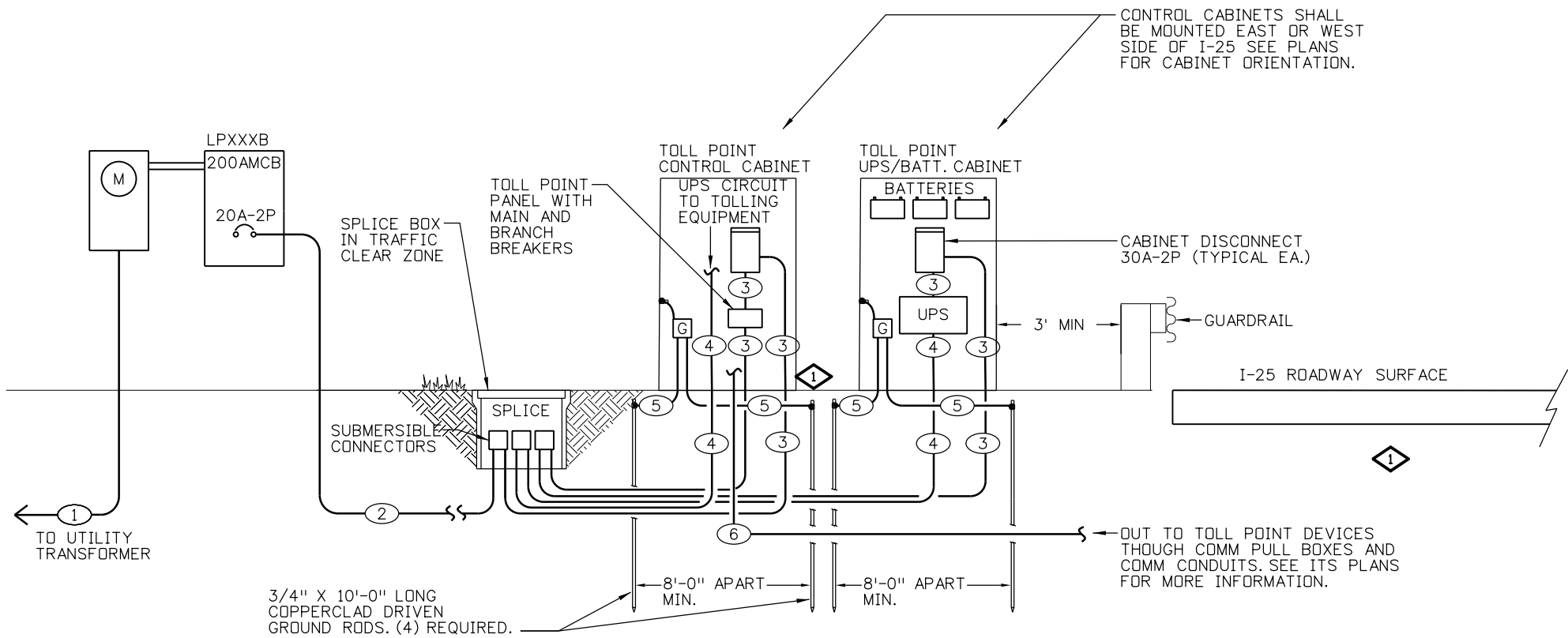
SHEET NOTES:

- 1 REFER TO PANEL SCHEDULE FOR MAIN AND BRANCH BREAKER SIZE.

FEEDER SCHEDULE

- 1 3 (#3/0 CU TRIPLEX) 2"PVC UNLESS OTHERWISE NOTED ON PLANS AND FEEDER SCHEDULE.
2 REFER TO FEEDER SCHEDULE FOR WIRE SIZE.
3 (2#10 THWN CU & 1#10 GND) 2"PVC
4 (1#6 S.D.B.C. GND) 1/2"C
5 WIRE SIZE PER TOLLING EQUIPMENT MANUFACTURER, FURNISHED AND INSTALLED BY CONTRACTOR TO EACH TOLLING DEVICE IN THE COMMUNICATIONS CABINET. ONE SET FOR NORTH BOUND DEVICES AND ONE SET FOR SOUTH BOUND DEVICES.

Print Date: 10/19/2020	0000	Sheet Revisions			Colorado Department of Transportation		As Constructed	NORTH I-25 EXPRESS LANES LIGHTING AND ELECTRICAL DETAILS		Project No./Code
File Name: 21506_Power_Detail_11 - S5.dgn		Date:	Comments	Init.	 Region 4	10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2148 FAX: 970-350-2163 CJS	No Revisions:	LIGHTING PLANS		IM 0253-255
							Revised:	Designer: B. NELSON	Structure Numbers	21506
 LIGHTING DESIGN AND ENGINEERING							Void:	Detailer: M. CHASEN		
LIGHTING DESIGN AND ENGINEERING 4699 NAUTILUS COURT SOUTH STE. 102 BOULDER, CO 80501 303-530-7229								Sheet Subset: LTG Details	Subset Sheets: 31 of 34	Sheet Number 696



- FEEDER SCHEDULE - (3) REQUIRED**
- ① (#3/0 CU TRIPLEX) 2"PVC UNLESS OTHERWISE NOTED ON PLANS.
 - ② (3#8 THWN CU & 1#8 GND) 2"PVC UNLESS OTHERWISE NOTED ON PLANS.
 - ③ (3#10 PLUG CONNECTOR W/ 1#10 GND) 2"PVC
 - ④ (2#10 THWN CU & 1#10 GND) 2"PVC
 - ⑤ (1#6 S.D.B.C. GND) 1/2"C
 - ⑥ WIRE SIZE PER TOLLING EQUIPMENT MANUFACTURER, FURNISHED AND INSTALLED BY CONTRACTOR TO EACH TOLLING DEVICE IN THE COMMUNICATIONS CABINET. ONE SET FOR NORTH BOUND DEVICES AND ONE SET FOR SOUTH BOUND DEVICES.

1 TOLL POINT CABINET WIRING SCHEMATIC
02 NOT TO SCALE

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File Name: 21506_Power_Detail_12 - S5.dgn														
			Date:	Comments	Init.	 10601 West 10th Street Greeley, CO 80634 Phone: 970-350-2148 FAX: 970-350-2163 Region 4	No Revisions:		Designer: B. NELSON Detailer: M. CHASEN		Structure Numbers	IM 0253-255		
							Revised:					21506		
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LONG DESCRIPTION				
UNITS				
SHEET No.	I.D. No.	BASELINE	STATION	OFFSET
02	LT5.01	SB I-25 HCL	6882+27.31	L=42.00
02	LT5.02	HARMONY RD. SB OFF-RAMP HCL	6883+4.32	L=107.63
02	LT5.03	HARMONY RD. SB OFF-RAMP HCL	6885+17.27	L=70.55
02	LT5.04	SB I-25 HCL	6888+10.12	L=54.00
03	LT5.05	SB I-25 HCL	6890+62.16	L=53.98
02	LT5.06	HARMONY RD. NB ON RAMP HCL	624+77.63	R=33.35
02	LT5.07	HARMONY RD. NB ON RAMP HCL	627+35.61	R=29.00
02	LT5.08	HARMONY RD. NB ON RAMP HCL	629+97.30	R=29.00
03	LT5.09	NB I-25 HCL	3891+52.05	R=54.00
04	LT5.10	CSP NB OFF-RAMP HCL	501+88.95	R=27.11
04	LT5.11	CSP NB OFF-RAMP HCL	504+13.90	R=27.25
04	LT5.12	NB I-25 HCL	3911+75.18	R=53.75
04	LT5.13	CSP NB OFF-RAMP HCL	506+36.08	R=27.01
05	LT5.14	CSP NB ON-RAMP HCL	513+29.63	R=26.97
05	LT5.15	NB I-25 HCL	515+56.39	R=25.14
05	LT5.16	NB I-25 HCL	3924+79.62	R=49.25
06	LT5.17	NB I-25 HCL	3927+7.74	R=50.36
06	LT5.18	NB I-25 HCL	3929+33.70	R=50.17
08	LT5.19	NB I-25 HCL	3959+41.03	R=48.00
08	LT5.20	NB I-25 HCL	3961+39.47	R=48.00
09	LT5.21	NB I-25 HCL	3963+38.07	R=68.96
09	LT5.22	NOT FOR CONSTRUCTION		
09	LT5.23	NOT FOR CONSTRUCTION		
09	LT5.24	NOT FOR CONSTRUCTION		
	LT5.25	NOT FOR CONSTRUCTION		
08	LT5.26	SB I-25 HCL	6961+13.77	L=48.00
09	LT5.27	SB I-25 HCL	6963+13.36	L=60.10
09	LT5.28	SB I-25 HCL	6965+14.73	L=60.10
09	LT5.29	SB I-25 HCL	6967+15.36	L=63.13
09	LT5.30	NOT FOR CONSTRUCTION		
10	LT5.31	NOT FOR CONSTRUCTION		
10	LT5.32	NB I-25 HCL	3978+85.71	R=61.26
10	LT5.33	NB I-25 HCL	3980+83.91	R=53.57
10	LT5.34	NB I-25 HCL	3982+81.62	R=51.24
10	LT5.35	NB I-25 HCL	3984+80.26	R=50.15
11	LT5.36	NB I-25 HCL	3986+78.86	R=50.11
10	LT5.37	NOT FOR CONSTRUCTION		
10	LT5.38	NOT FOR CONSTRUCTION		
10	LT5.39	SB I-25 HCL	6982+92.06	L=51.66
10	LT5.40	SB I-25 HCL	6984+89.59	L=52.72

LONG DESCRIPTION				
UNITS				
SHEET No.	I.D. No.	BASELINE	STATION	OFFSET
11	LT5.41	SB I-25 HCL	6986+83.46	L=52.40
13	LT5.42	NB I-25 HCL	4015+38.20	R=48.91
13	LT5.43	NB I-25 HCL	4017+63.47	R=64.52
13	LT5.44	NB I-25 HCL	4019+78.64	R=68.28
14	LT5.45	PROSPECT RD. NB OFF RAMP HCL	801+81.04	R=36.98
14	LT5.46	PROSPECT RD. NB OFF RAMP HCL	804.69.30	R=36.25
14	LT5.47	NB I-25 HCL	4025+5.68	R=50.75
13	LT5.48	SB I-25 HCL	7018+43.21	L=52.76
13	LT5.49	SB I-25 HCL	7020+80.99	L=55.86
14	LT5.50	SB I-25 HCL	7023+24.85	L=56.33
14	LT5.51	SB I-25 HCL	7025+66.45	L=73.20
16	LT5.52	PROSPECT RD. SB OFF RAMP HCL	870+12.95	L=40.42
16	LT5.53	SB I-25 HCL	7046+36.22	L=45.13
16	LT5.54	PROSPECT RD. NB OFF RAMP HCL	1829+3.64	L=31.39
17	LT5.55	PROSPECT RD. SB OFF RAMP HCL	872+45.29	L=38.67
17	LT5.56	PROSPECT RD. SB OFF RAMP HCL	874+68.15	L=38.88
17	LT5.57	SB I-25 HCL	7053+10.25	L=61.87
17	LT5.58	SB I-25 HCL	7055+38.15	L=48.00
17	LT5.59	PROSPECT RD. NB OFF RAMP HCL	1831+29.03	R=30.29
17	LT5.60	NB I-25 HCL	4049+37.28	R=60.00
17	LT5.61	NB I-25 HCL	4051+60.42	R=59.16
19	LT5.62	FRONTAGE RD	7072+96.62	L=48.73
19	LT5.63	FRONTAGE RD	7075+96.02	L=46.72
19	LP5.01	NB I-25 HCL	4078+26.29	L=219.25
02	LR5.01	HARMONY RD. SB OFF-RAMP HCL	644+07.50	R=26.05
04	LR5.02	NB I-25 HCL	3913+87.06	0'
05	LR5.03	NB I-25 HCL	3916+04.09	R=38.22'
05	LR5.04	NB I-25 HCL	3917+55.17	R=81.10'
05	LR5.05	NB I-25 HCL	3918+46.61	R=84.02'
05	LR5.06	NB I-25 HCL	3919+32.58	R=82.51'
05	LR5.07	NB I-25 HCL	3920+42.13	R=80.24'
10	LR5.08	SB I-25 HCL	6976+78.02	R=26.14'
10	LR5.09	SB I-25 HCL	6978+22.88	R=21.34'
11	LR5.10	NB I-25 HCL	3987+80.28	R=74.16'
11	LR5.11	NB I-25 HCL	3992+03.11	R=69.00'
11	LR5.12	SB I-25 HCL	6993+45.84	R=18.35'
11	LR5.13	NB I-25 HCL	3993+91.51	R=79.39'
11	LR5.14	SB I-25 HCL	6995+57.65	L=27.64'

LONG DESCRIPTION				
UNITS				
SHEET No.	I.D. No.	BASELINE	STATION	OFFSET
11	LR5.15	SB I-25 HCL	6996+15.23	R=5.76'
11	LR5.16	NB I-25 HCL	3996+22.90	R=82.09'
11	LR5.17	SB I-25 HCL	6997+61.30	L=66.21'
11	LR5.18	NB I-25 HCL	3997+70.93	R=126.44'
12	LR5.19	SB I-25 HCL	6968+26.85	R=04.45'
12	LR5.20	SB I-25 HCL	6968+58.24	L=52.50'
12	LR5.21	NB I-25 HCL	3998+57.11	R=78.63'
12	LR5.22	NB I-25 HCL	3999+07.01	R=123.17'
12	LR5.23	SB I-25 HCL	6999+96.74	L=41.23'
12	LR5.24	NB I-25 HCL	4000+44.94	R=127.32'
12	LR5.25	SB I-25 HCL	7000+68.85	0'
12	LR5.26	NB I-25 HCL	4000+63.18	R=76.96'
12	LR5.27	SB I-25 HCL	7001+66.64	L=44.77'
12	LR5.28	NB I-25 HCL	4001+64.17	R=151.97'
12	LR5.29	NB I-25 HCL	4002+72.21	R=73.67'
12	LR5.30	SB I-25 HCL	7002+89.18	R=01.32'
12	LR5.31	NB I-25 HCL	4003+72.79	R=106.52'
12	LR5.32	SB I-25 HCL	7004+48.48	L=38.59'
12	LR5.33	NB I-25 HCL	4006+06.87	R=59.16'
12	LR5.34	SB I-25 HCL	7006+61.40	R=08.40'
13	LR5.35	SB I-25 HCL	7015+05.11	L=08.85'
14	LR5.36	NB I-25 HCL	4030+19.60	R=63.40'
15	LR5.37	PROSPECT RD. SB ON RAMP HCL	1855+52.88	L=128.48'
19	LR5.38	NB I-25 HCL	4077+53.54	R=183.02'
04	U5.01	SEE STRUCTURAL		
04	U5.02	SEE STRUCTURAL		
04	U5.03	SEE STRUCTURAL		
04	U5.04	SEE STRUCTURAL		
06	U5.05	SEE STRUCTURAL		
06	U5.06	SEE STRUCTURAL		
06	U5.07	SEE STRUCTURAL		
06	U5.08	SEE STRUCTURAL		
02	LCC4.2	HARMONY RD. SB OFF-RAMP HCL	641+40.75	L=110.42'
04	LCC5.1	CSP NB OFF-RAMP HCL	506+59.04	R=77.66'
08	LCC5.5	NB I-25 FRONTAGE RD	122+04.68	R=23.77'
09	LCC5.7	SB I-25 HCL	6967+39.34	L=83.45'
10	LCC5.9	SB I-25 HCL	6986+11.68	L=54.77'

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LIGHTING DESIGN AND ENGINEERING

4699 NAUTILUS COURT SOUTH STE. 102
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NORTH I-25 EXPRESS LANES
LIGHTING AND ELECTRICAL DETAILS
LIGHTING PLANS

Designer: B. NELSON
Detailer: M. CHASEN
Sheet Subset: LTG Details
Structure Numbers
Subset Sheets: 33 of 34

Project No./Code

IM 0253-255

21506

Sheet Number 698

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LONG
DESCRIPTION

UNITS				
SHEET No.	I.D. No.	BASELINE	STATION	OFFSET
14	LCC5.12	PROSPECT RD. SB ON RAMP HCL	1846+98.68	L=195.46'
16	LCC5.14	PROSPECT RD. SB OFF RAMP HCL	865+40.19	L=94.86'
04	MPP5.1	CSP NB OFF-RAMP HCL	506+59.04	R=77.66'
04	MPP5.2	CSP NB OFF-RAMP HCL	507+05.44	R=39.71'
07	MPP5.3	SB I-25 HCL	6938+49.93	L=138.56'
08	MPP5.6	SB I-25 HCL	6961+87.23	L=84.10'
10	MPP5.8	SB I-25 HCL	6984+58.67	L=47.54'
12	MPP5.11	SB I-25 HCL	7009+65.13	L=106.64'
14	MPP5.13	PROSPECT RD. SB ON RAMP HCL	1848+85.49	L=45.61'
18	MPP5.15	SB I-25 HCL	7066+16.89	L=105.22'
05	MPP5.16	CSP NB ON-RAMP HCL	510+07.20	R=53.02'
14	MPP5.17	PROSPECT RD. SB ON RAMP HCL	1846+78.80	L=196.67'

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LIGHTING DESIGN AND ENGINEERING

LIGHTING DESIGN AND ENGINEERING
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NORTH I-25 EXPRESS LANES
LIGHTING AND ELECTRICAL DETAILS
LIGHTING PLANS

Designer: B. NELSON
Detailer: M. CHASEN

Structure
Numbers

Sheet Subset: LTG Details
Subset Sheets: 34 of 34

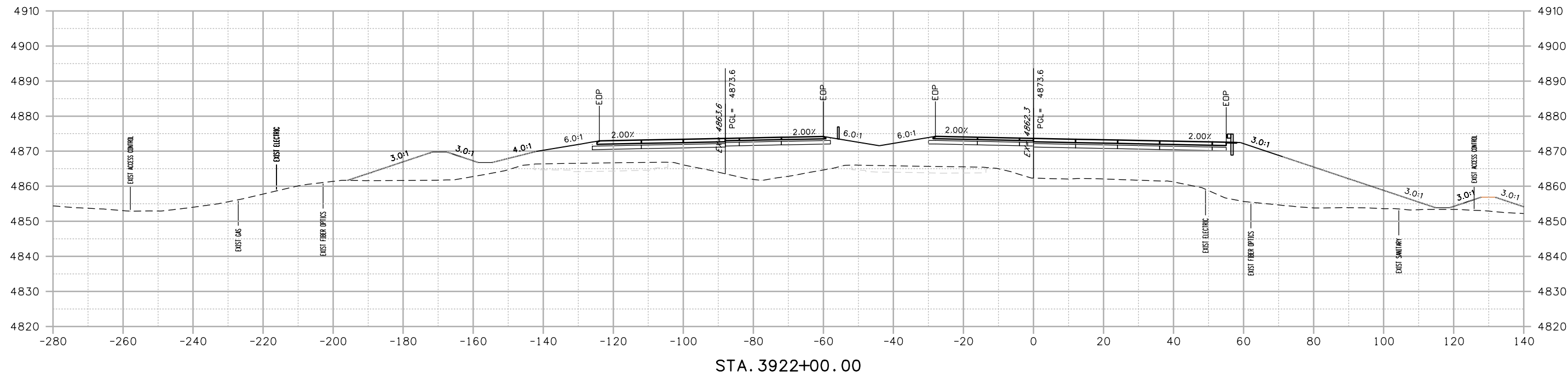
Project No./Code

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21506

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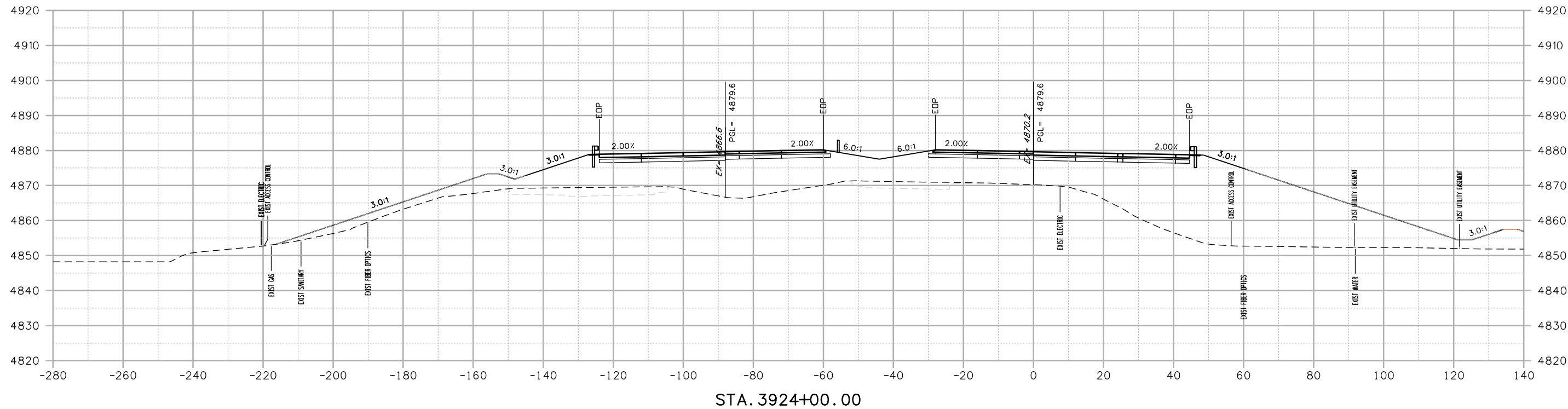
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No Revisions:		Designer: B. Hearn			IM 0253-255
Revised:		Detailer: J. Haywood		Structure Numbers	21506
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Detailer:	J. Haywood	Numbers	
Sheet Subset:	XSEC	Subset Sheets:	14 of 56

Project No./Code

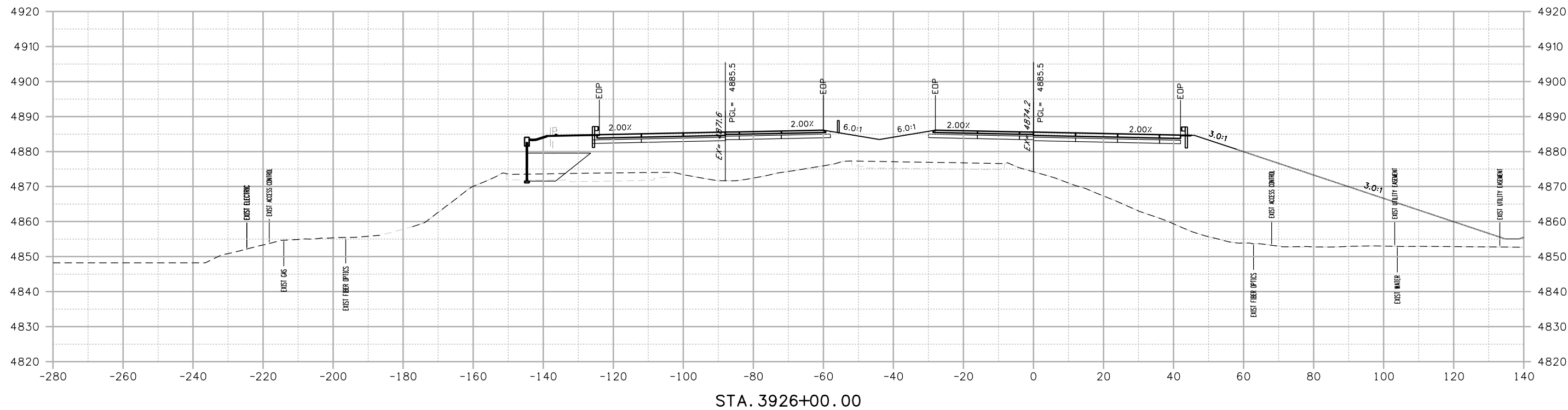
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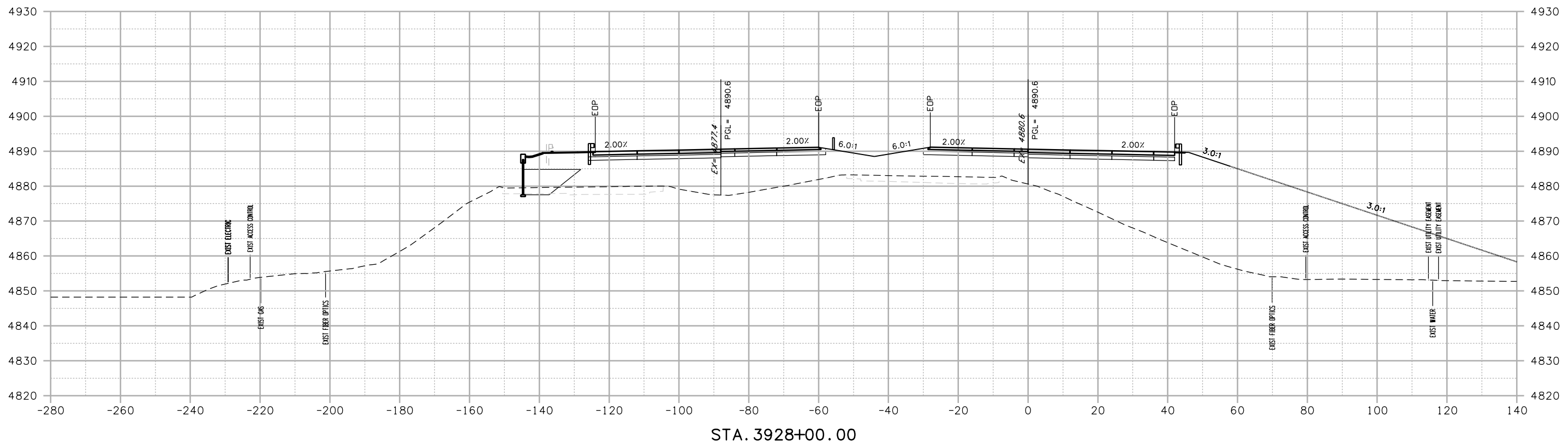


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No Revisions:		Designer: B. Hearn		IM 0253-255
Revised:		Detailer: J. Haywood	Structure Numbers	21506
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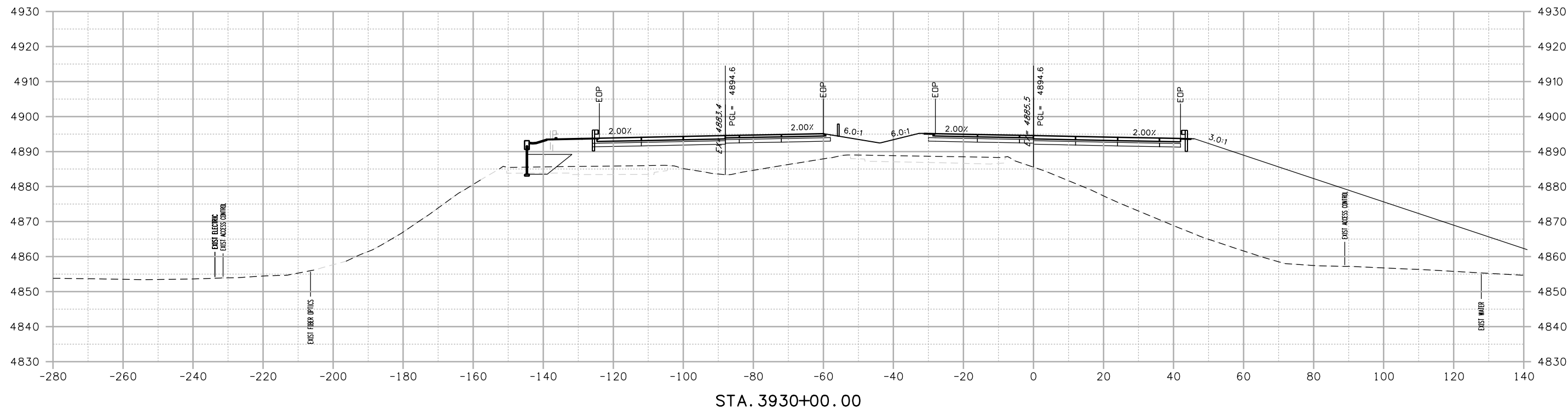
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No Revisions:		Designer: B. Hearn		IM 0253-255
Revised:		Detailer: J. Haywood	Structure Numbers	21506
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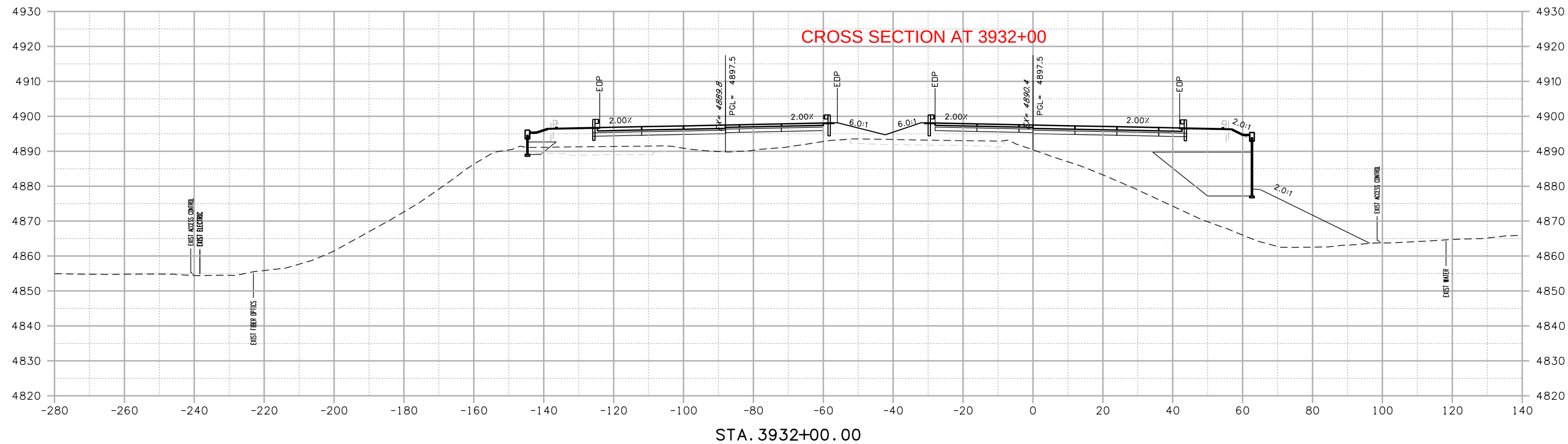
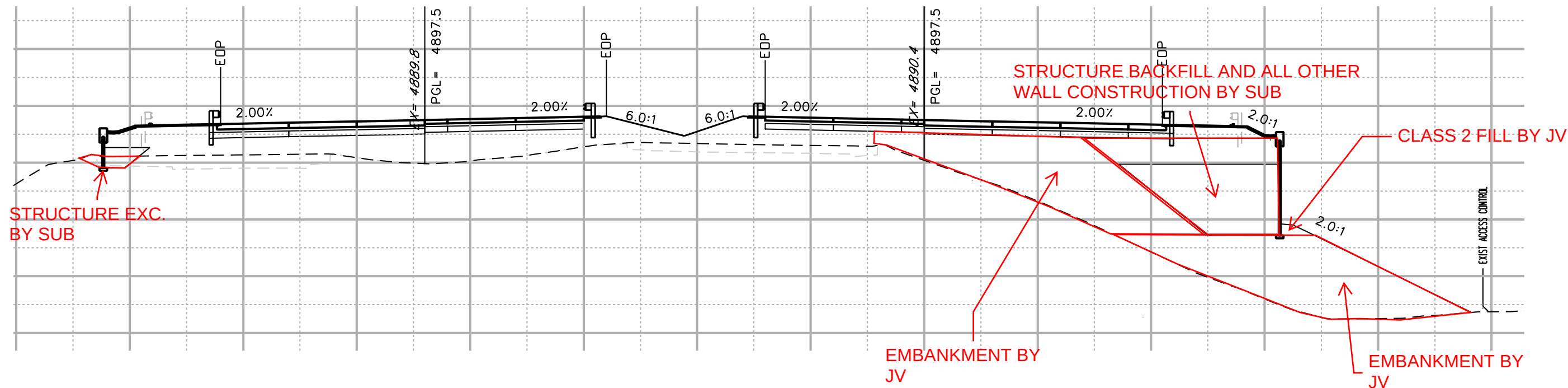
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No Revisions:		Designer: B. Hearn	Structure	IM 0253-255
Revised:		Detailer: J. Haywood	Numbers	21506
Void:		Sheet Subset: XSEC	Subset Sheets: 17 of 56	Sheet Number 716

Segment 5M - RFC - CDOT - 10.19.2020

EXAMPLE OF JV WORK VS SUBCONTRACTOR WORK at STA. 3932+00



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CJS

As Constructed

No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
NB & SB I-25
CROSS SECTIONS

Designer:	B. Hearn	Structure	
Detailer:	J. Haywood	Numbers	
Sheet Subset:	XSEC	Subset Sheets:	18 of 56

Project No./Code

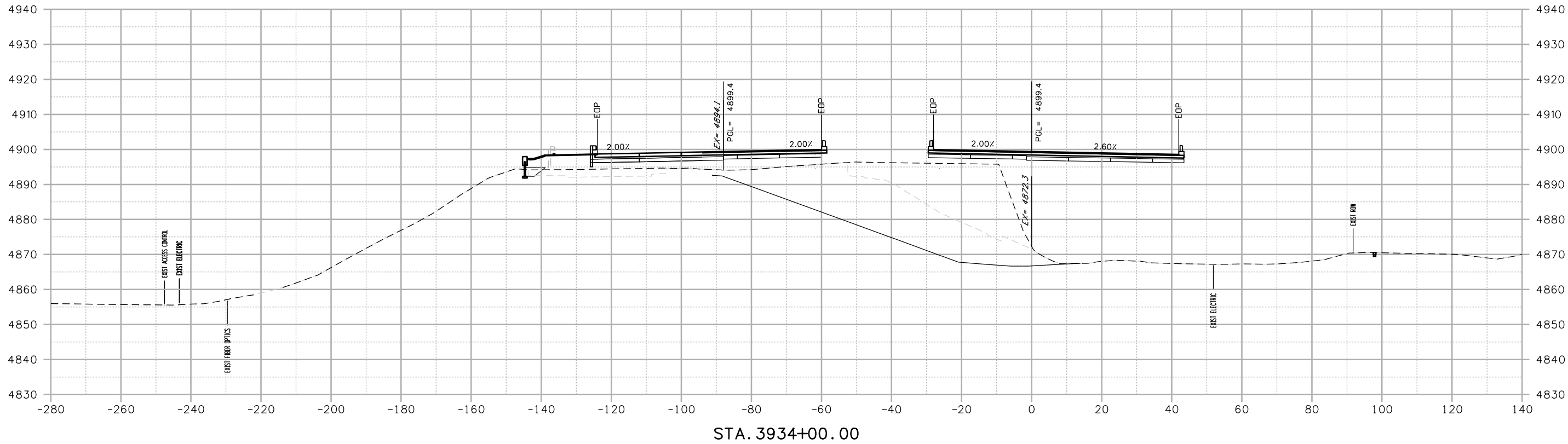
IM 0253-255

21506

Sheet Number 717

Segment 5M - RFC - CDOT - 10.19.2020

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Date:	Comments	Init.

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Region 4

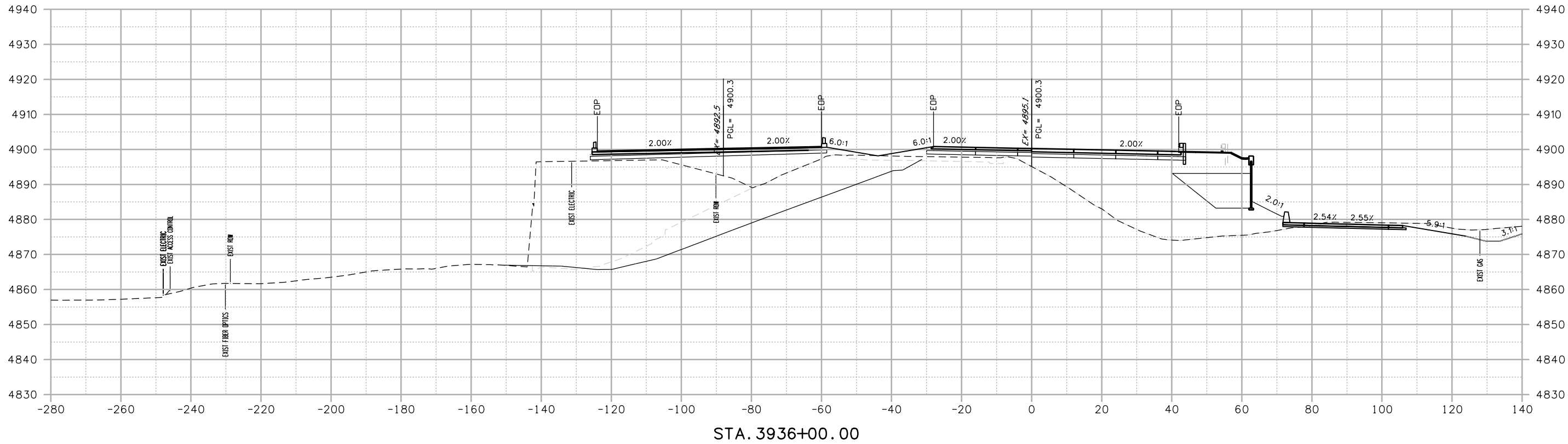
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Designer:	B. Hearn	Structure
Detailer:	J. Haywood	Numbers
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Project No./Code
IM 0253-255
21506
Sheet Number 718

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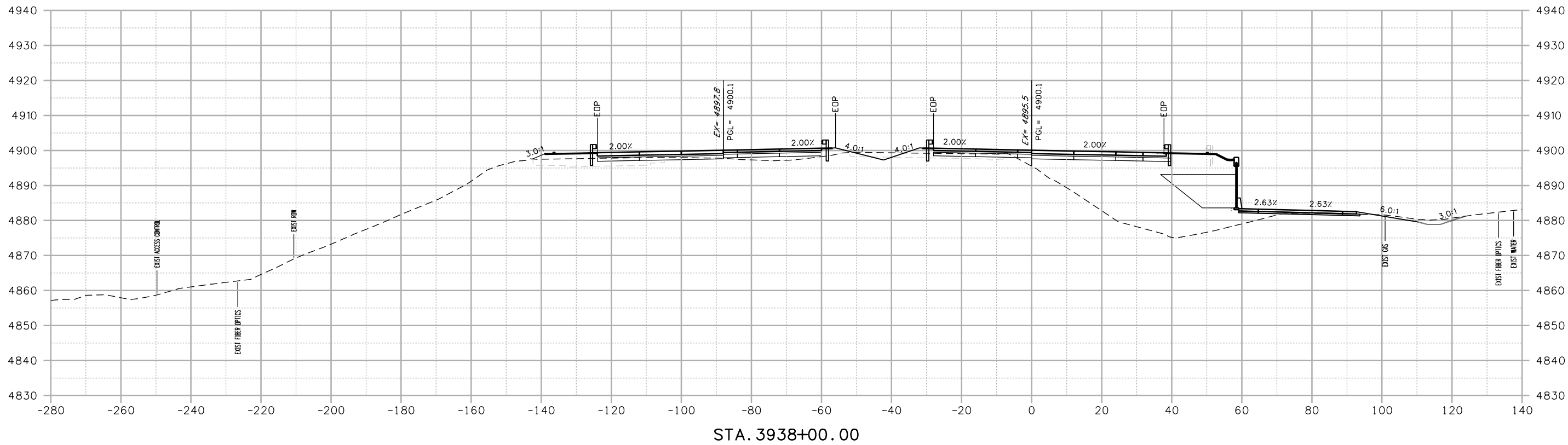
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Detailer:	J. Haywood	Numbers	
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Project No./Code
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Sheet Number 719

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RS&H

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Sheet Revisions		
Date:	Comments	Init.

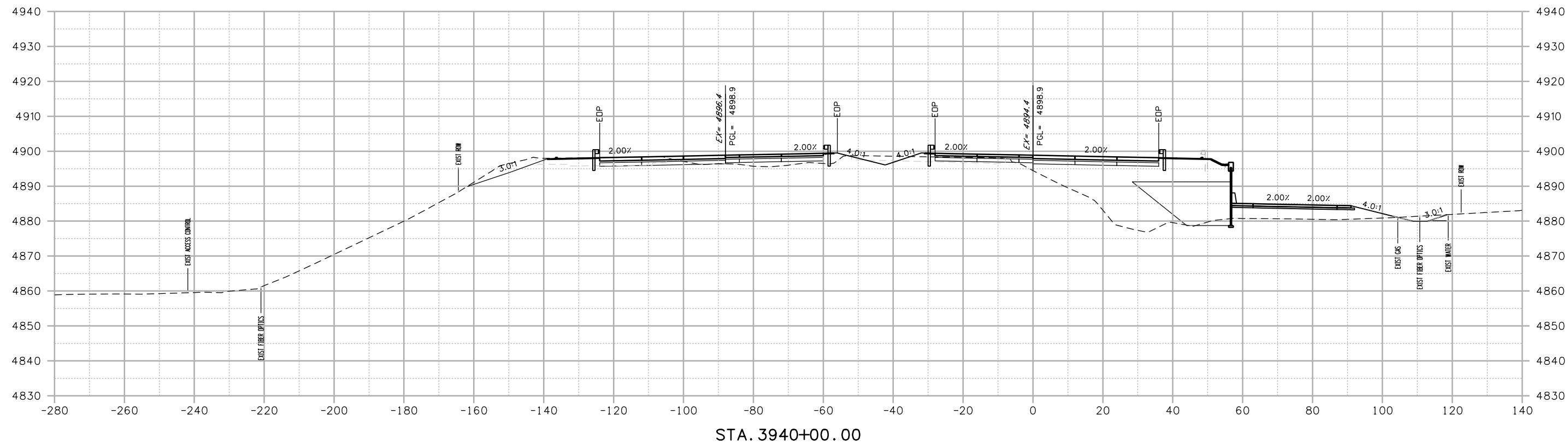
Colorado Department of Transportation

Region 4
10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530
CJS

As Constructed		NORTH I-25 EXPRESS LANES NB & SB I-25 CROSS SECTIONS		Project No./Code
No Revisions:		Designer: B. Hearn		IM 0253-255
Revised:		Detailer: J. Haywood	Structure Numbers	21506
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Segment 5M - RFC - CDOT - 10.19.2020

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Date:	Comments	Init.

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Revised:

Void:

NORTH I-25 EXPRESS LANES NB & SB I-25 CROSS SECTIONS

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Detailer:	J. Haywood	Numbers	
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Project No./Code

IM 0253-255

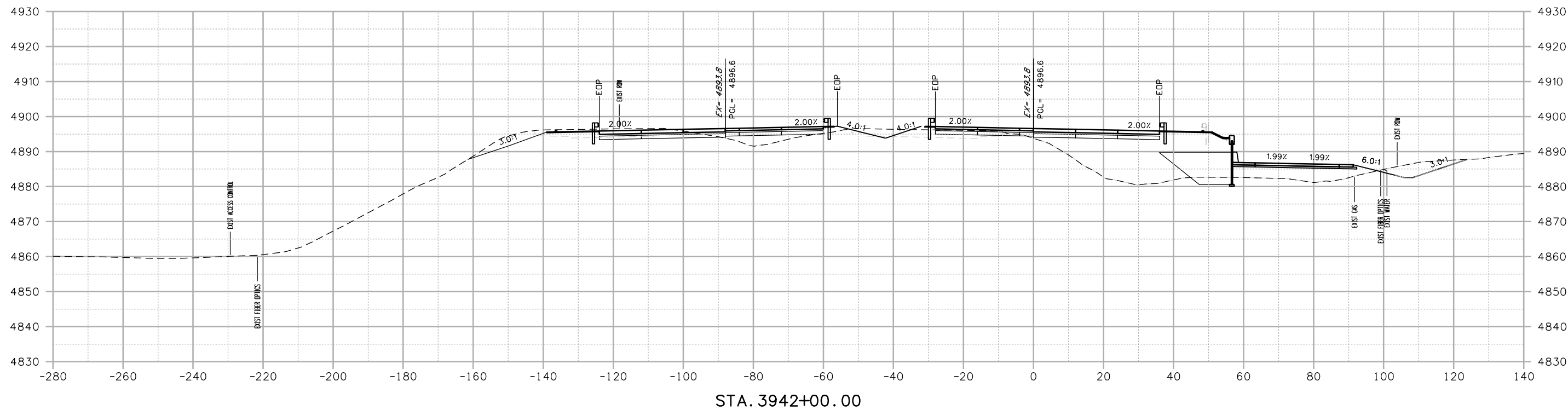
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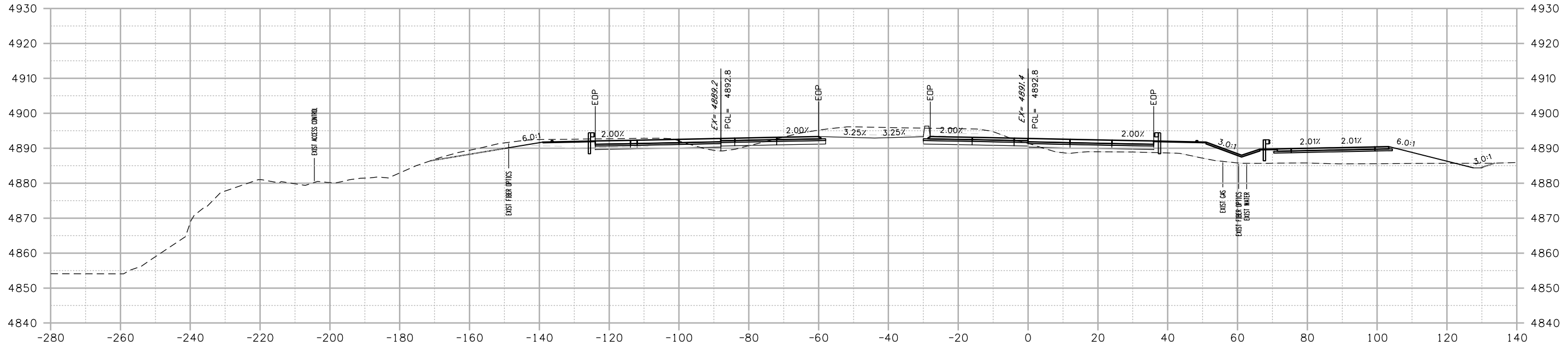
Colorado Department of Transportation

Region 4
10601 West 10th Street
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Phone: (970)-350-2205 FAX: (970)339-9530
CJS

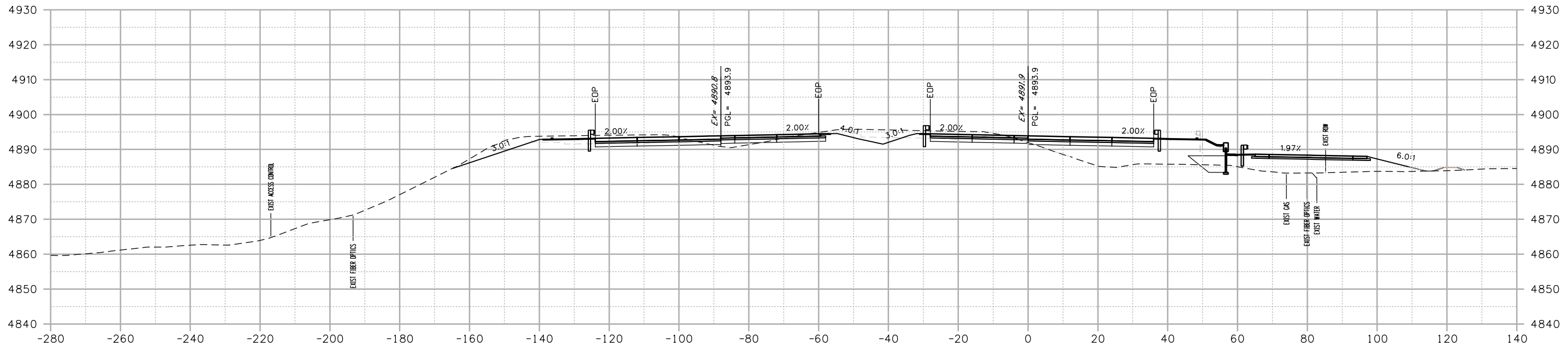
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Revised:		Detailer: J. Haywood			21506
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Segment 5M - RFC - CDOT - 10.19.2020

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Sheet Revisions		
Date:	Comments	Init.



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Region 4 CJS

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No Revisions:

Revised:

Void:

NORTH I-25 EXPRESS LANES
NB & SB I-25
CROSS SECTIONS

Designer: B. Hearn
Detailer: J. Haywood
Sheet Subset: XSEC

Structure
Numbers

Subset Sheets: 24 of 56

Project No./Code

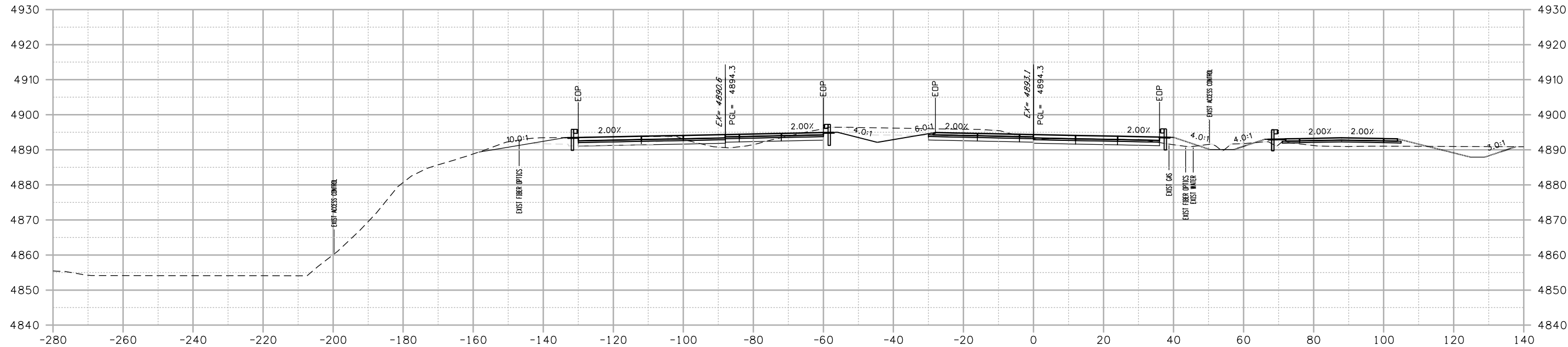
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21506

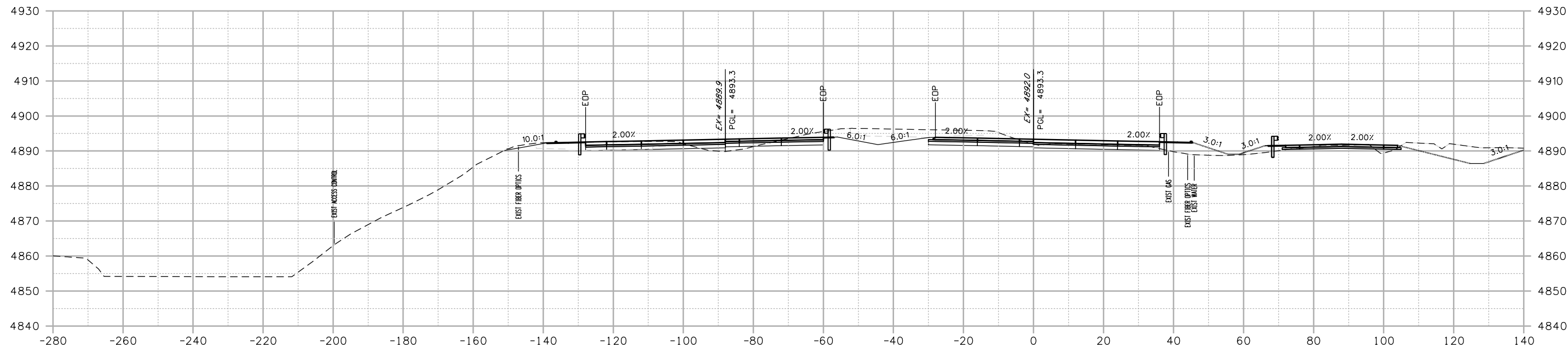
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Region 4

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Void:

NORTH I-25 EXPRESS LANES NB & SB I-25 CROSS SECTIONS

Designer:	B. Hearn	Structure	
Detailer:	J. Haywood	Numbers	
Sheet Subset:	XSEC	Subset Sheets:	25 of 56

Project No./Code

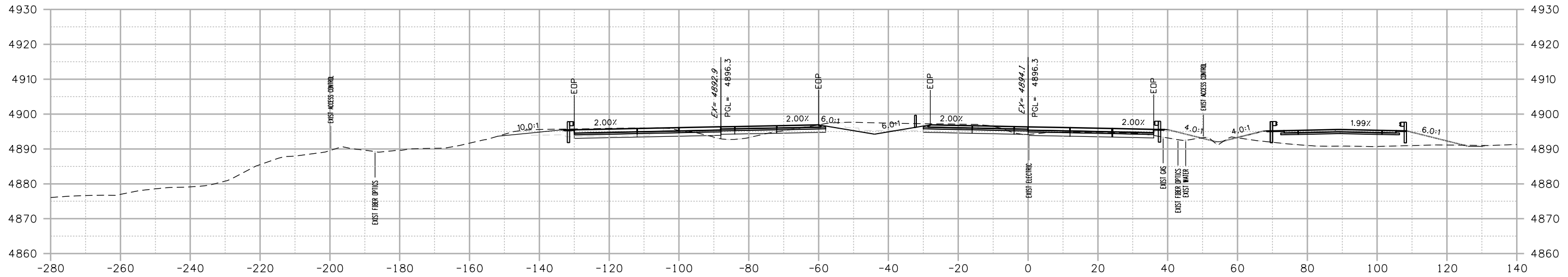
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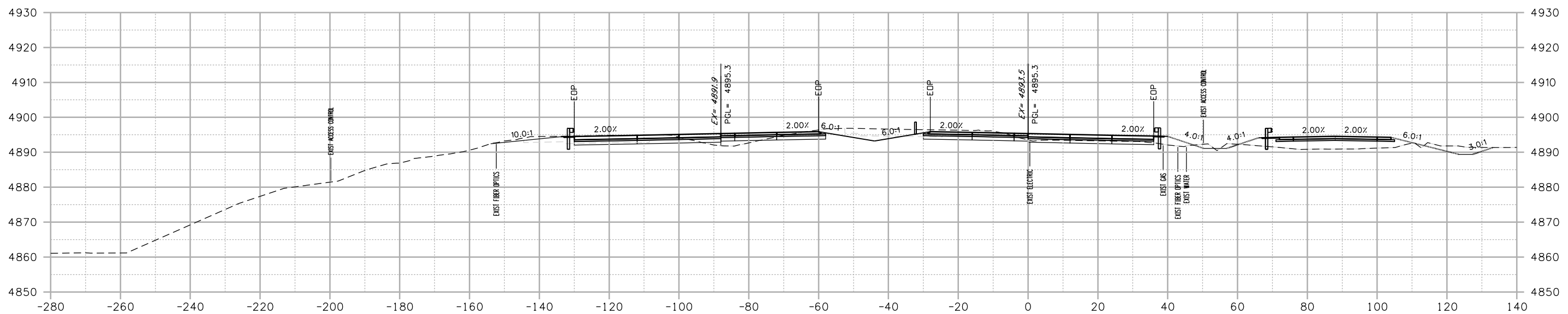
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Segment 5M - RFC - CDOT - 10.19.2020

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As Constructed		NORTH I-25 EXPRESS LANES NB & SB I-25 CROSS SECTIONS		Project No./Code	
No Revisions:		Designer: B. Hearn		IM 0253-255	
Revised:		Detailer: J. Haywood		21506	
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PoDI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PoDI)?	☐ NO ☐ YES
NATIONAL HIGHWAY SYSTEM?	☐ NO ☐ YES

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

HIGHWAY CONSTRUCTION PLANS OF PROPOSED
FEDERAL AID PROJECT NO. IM 0253-255
INTERSTATE HIGHWAY NO. 25
WELD & LARIMER COUNTIES
CONSTRUCTION PROJECT CODE NO. 21506

Related Projects: P. E. UNDER PROJECT: Project Number Project Code:	
R.O.W. Projects: R.O.W. Project Description	IM 0253-255 21506

WORK DESCRIPTION:

EXTEND 24" REINFORCED CONCRETE
PIPE 161 LF WITH END SECTION.

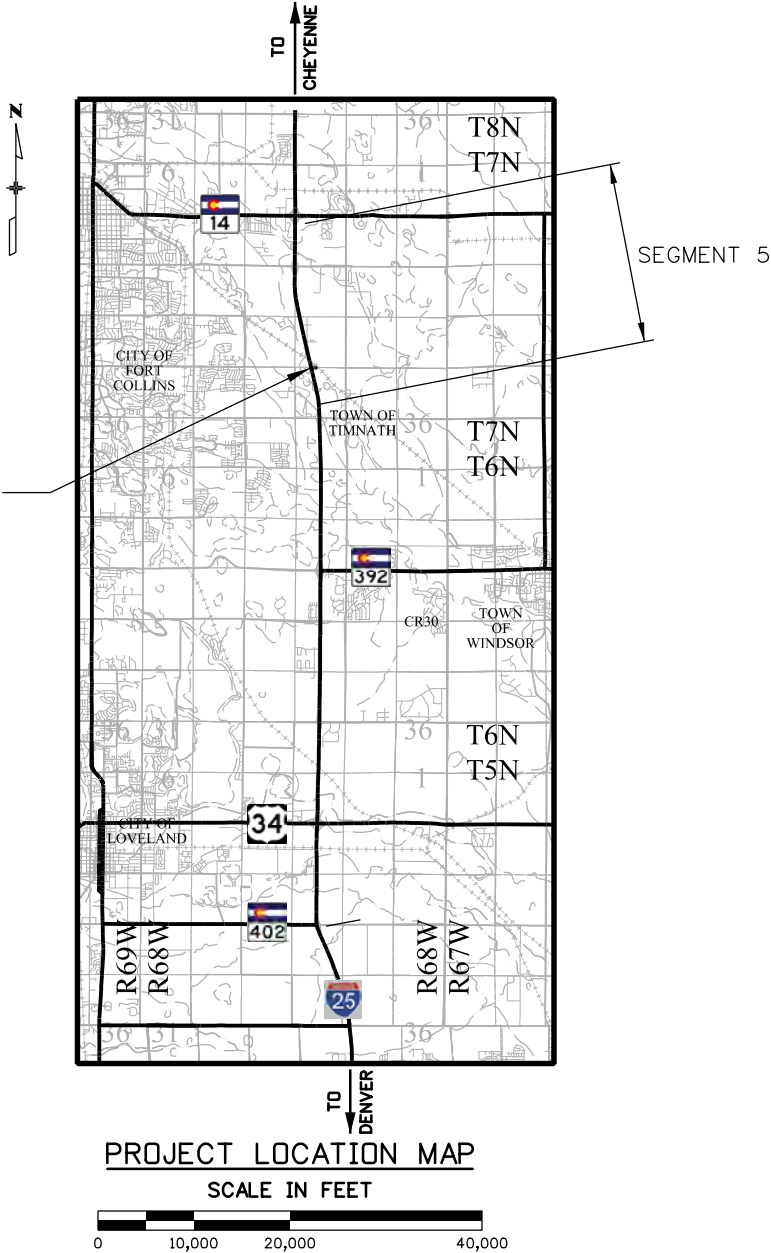
CONSTRUCT MANHOLE AT PIPE BEND.

CONSTRUCT 404 L.F. "V" DITCH

TIMNATH PUBLIC WORKS
UIS #8-IR-TPW-001
M.P. = 266.4

TIMNATH PUBLIC WORKS

DON TARANTO (TIMNATH PUBLIC WORKS)		DATE
"BY SIGNING THESE DRAWINGS, THE DITCH COMPANY HEREBY AGREES TO ALLOW CDOT, KRAEMER/IHC JOINT VENTURE, AND ITS SUBCONTRACTORS TO OCCUPY THE DITCH'S PRESCRIPTIVE EASEMENT FOR THE PURPOSES OF CONSTRUCTING THE FACILITIES SHOWN HEREIN AS DEFINED BY THE "TEMPORARY WORK ZONE" LINE. ANY AND ALL COMMUNICATION AND COORDINATION WITH PRIVATE PROPERTY OWNERS TO FACILITATE THIS WORK SHALL BE UNDERTAKEN BY THE DITCH COMPANY. KRAEMER/IHC JOINT VENTURE AND ITS SUBCONTRACTORS SHALL RE-ESTABLISH EXISTING GRADING, NATIVE SEEDING, AND FENCES UPON EXIT OF THE "TEMPORARY WORK ZONE."		



IRRIGATION PLAN SET INCLUDED FOR
INFORMATION PURPOSES, BUT THIS
WORK IS PART OF A SEPARATE ICC
PACKAGE.

CONTACT DATA:
DON TARANTO
PHONE: 970-488-2110

TIMNATH
PUBLIC
WORKS

Print Date: 9/21/2020
File Name: 21506IRR_01_8-IR-TPW-001_Title-S5.dgn
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



10601 West 10th Street
Greeley, CO 80634
Phone: (970)-350-2205 FAX: (970)339-9530

Region 4

CJS

As Constructed	Contract Information		Project No./Code
	Contractor: KRAEMER NORTH AMERICA	Resident Engineer:	
No Revisions:	Project Engineer:	PROJECT STARTED:	IM 0253-255
Revised:	ACCEPTED:	Comments:	21506
Void:			Sheet Number 792

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QUANTITY TABULATION

Item Description	UNIT MEASURE	QUANTITY	COMMENTS
Remove Pipe	LF	10	
Remove End Section	EA	1	
Temporary Shoring	LS	1	As required for safe excavation
Potholing	LS	1	
24 Inch Reinforced Concrete Pipe	LF	156	
24 Inch Reinforced Concrete End Section	EA	1	
Manhole Slab Base 5'	EA	1	
V-Ditch Grading	LF	206	

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File Name: 21506IRR_02_8_IR-TPW-001_Qty Tab-S5.dgn		Date:	Comments	Init.		No Revisions:		8-IR-TPW-001 TIMNATH PUBLIC WORKS		IM 0253-255	
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KRAEMER joint venture						Void:		Detailer: R. HANSON		Sheet Number 793	
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GENERAL NOTES:

- 1. KRAEMER/IHC JOINT VENTURE (GENERAL CONTRACTOR) TO PERFORM ALL SURVEY, TRAFFIC CONTROL, FENCE REMOVALS, FENCE RESETS, TEMPORARY FENCES, BARRIER, CONCRETE WASHOUT SUPPLY, PERMANENT STABILIZATION, AND EROSION CONTROL (EXCEPT MAINTENANCE NECESSITATED BY SUBCONTRACTOR).
- 2. SUBCONTRACTOR SHALL MAINTAIN CLEAR ZONE DISTANCE FROM I-25 TRAVELED WAY GREATER THAN OR EQUAL TO 30 FEET. NO EQUIPMENT, MATERIALS, AND OTHER ITEMS MAY BE STORED WITHIN CLEAR ZONE OF I-25.
- 3. SUBCONTRACTOR SHALL MAINTAIN CLEAR ZONE DISTANCE FROM FRONTAGE ROAD TRAVELED WAY GREATER THAN OR EQUAL TO 22 FEET. NO EQUIPMENT, MATERIALS, AND OTHER ITEMS MAY BE STORED WITHIN CLEAR ZONE OF FRONTAGE ROADS.
- 4. SUBCONTRACTOR TO CARRY ALL MATERIAL OVERAGES AND YIELD RISKS.
- 5. EXCESS SPOILS FROM EXCAVATION IS TO REMAIN ON SITE WITHIN 200 FEET OF WORK ZONE (MATERIAL DOES NOT NEED TO BE HAULED OFFSITE).
- 6. COMMON BACKFILL MATERIAL WILL BE AVAILABLE TO SUBCONTRACTOR WITHIN 200 FEET OF WORK ZONE.
- 7. CLASS 1 BACKFILL MATERIAL WILL NOT BE AVAILABLE AT WORK ZONE AND IS EXPECTED TO BE PROVIDED BY SUBCONTRACTOR.
- 8. ALL DEWATERING FOR MANAGEMENT OF GROUNDWATER AND NUISANCE IRRIGATION WATER TO BE THE SOLE RESPONSIBILITY OF SUBCONTRACTOR.
- 9. SITE ACCESS, EGRESS, AND LAYDOWN AREAS SHOWN IN PLANS.
- 10. INITIAL GRADING, MAINTENANCE, AND MANAGEMENT OF LAYDOWN AREAS ARE THE RESPONSIBILITIES OF THE SUBCONTRACTOR.
- 11. SUBCONTRACTOR TO PERFORM ALL SUBGRADE PREPARATION.
- 12. SAWCUTTING, DRILLING, EPOXYING, WATERSTOP, AND ANY OTHER REQUIREMENTS TO CONNECT TO EXISTING STRUCTURES IS THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR.
- 13. WATERPROOFING AS SPECIFIED BY THE CONTRACT DOCUMENTS AND IN THE RFC DRAWINGS IS THE RESPONSIBILITY OF THE SUBCONTRACTOR.
- 14. UNLESS OTHERWISE NOTED ON THE PLANS, UTILITIES MUST BE MAINTAINED BY SUBCONTRACTOR DURING CONSTRUCTION.
- 15. SUBCONTRACTOR SHALL FINISH DITCH GRADING TO MATCH END SECTION INVERT AS SHOWN ON RFC PLANS. DITCH GRADING SHAPE SHALL ALSO MATCH SHAPE OF EXISTING DITCH AS CLOSELY AS POSSIBLE WITHIN REASON.
- 16. ENVIRONMENTAL APPROVAL REQUIRED BEFORE CONSTRUCTION CAN BEGIN.
- 17. SEE CDOT M-STANDARD M-206-1, EXCAVATION AND BACKFILL FOR STRUCTURES FOR EXCAVATION AND BACKFILL DETAILS.

TIMNATH PUBLIC WORKS CONSTRUCTION NOTES:

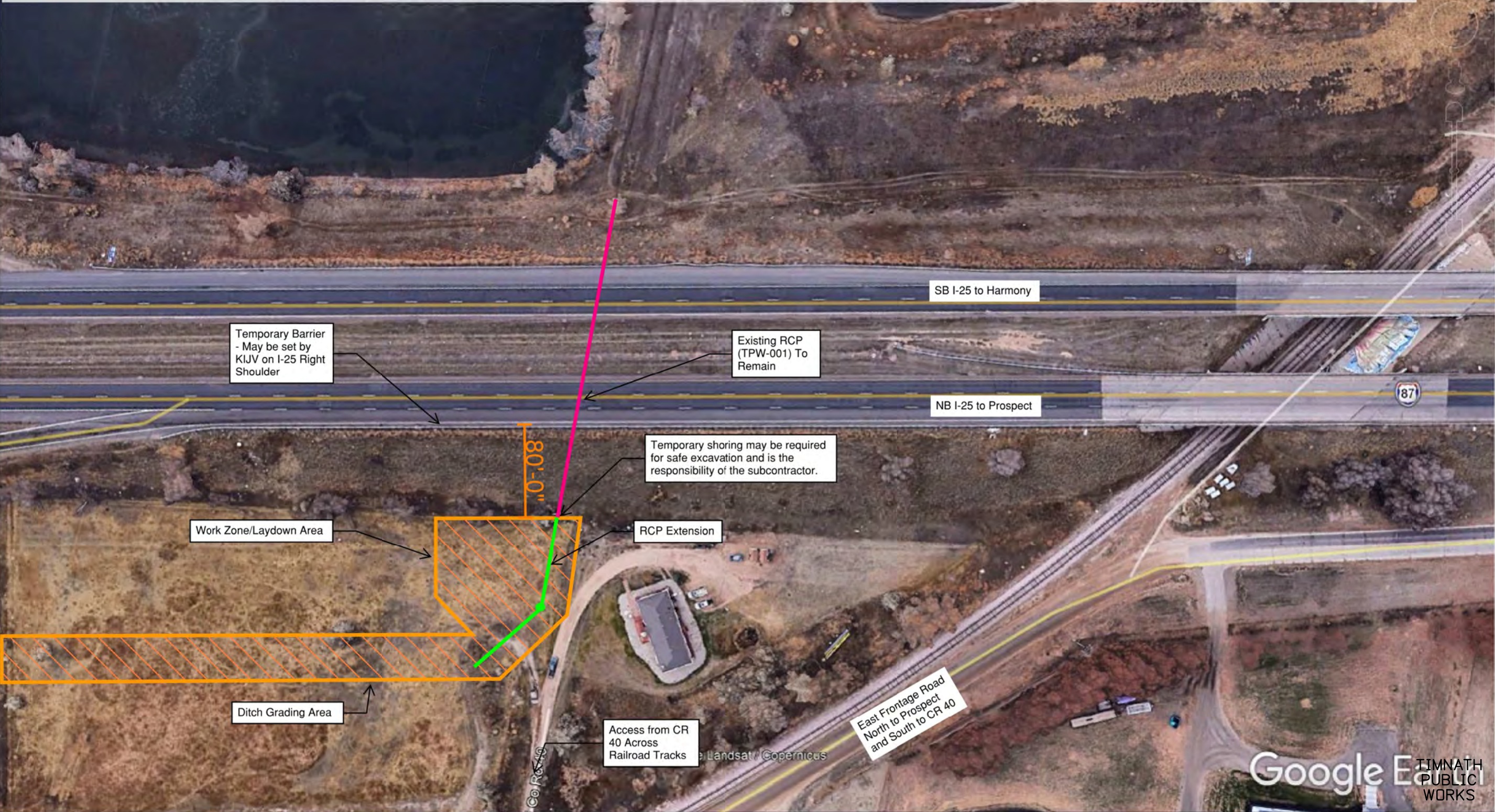
- 1. IRRIGATION SHUTDOWN DURATION APPROXIMATELY NOV 1, 2020 TO APRIL 1, 2021, DEPENDENT ON IRRIGATION DEMAND.
- 2. TEMPORARY SHORING MAY BE REQUIRED FOR THIS WORK AND IS THE RESPONSIBILITY OF THE SUBCONTRACTOR.

TIMNATH
PUBLIC
WORKS

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File Name: 21506IRR_03_8-IR-TPW-001_Gen Note-S5.dgn			Date:	Comments	Init.		No Revisions:					IM 0253-255	
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Vert. Scale: As Noted							Void:		Detailer: R. HANSON	Numbers		Sheet Number	794
Stanley Consultants INC. KRAEMER IHC a joint venture							Sheet Subset: IRRIG		Subset Sheets: 3 of 9				

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Timnath Public Works (TPW-001) Existing Conditions
All dimensions and lines are approximate
Approximate Shutdown: Nov 1, 2020 - April 1, 2021 Depending on Irrigation Demand



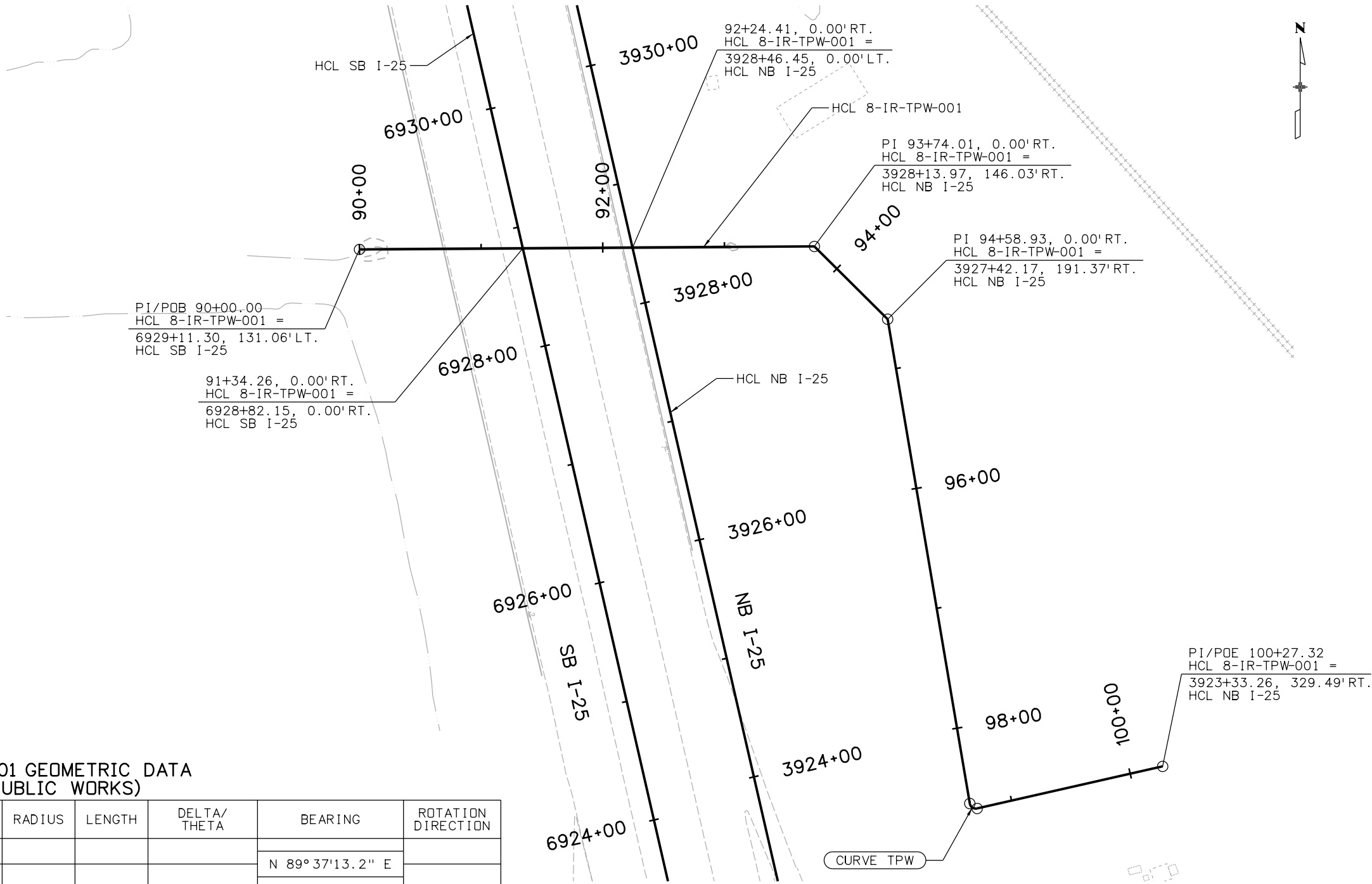
FOR INFORMATION ONLY

Segment 5M - RFC - CDOT - 10.19.2020

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					10601 West 10th Street Greeley, CO 80634 Phone: (970)-350-2205 FAX: (970)339-9530 CJS		Detailer: R. HANSON					
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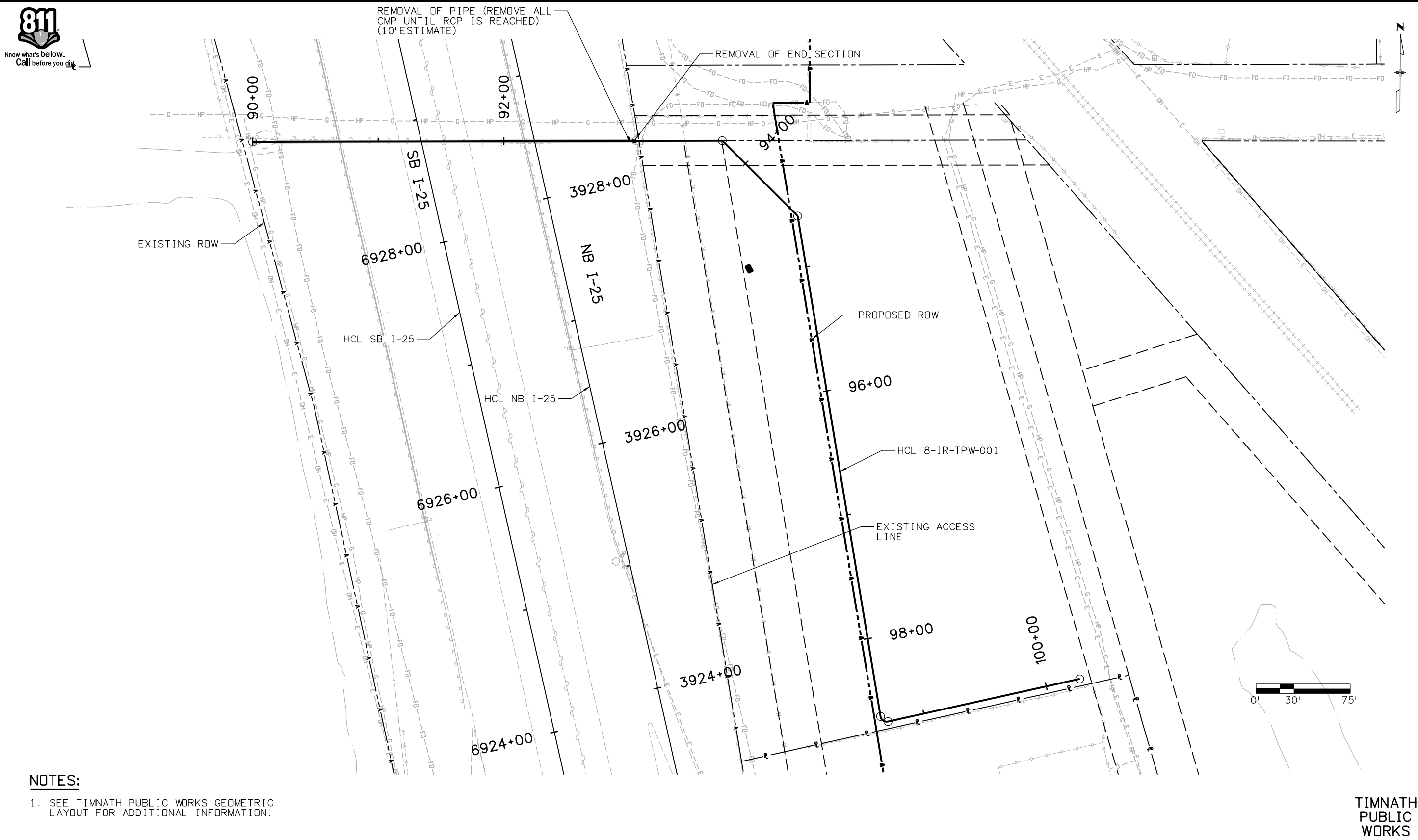
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HCL 8-IR-TPW-001 GEOMETRIC DATA (TIMNATH PUBLIC WORKS)										
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TANGENT	PI		93+74.01	290795.79	187769.59				N 89° 37' 13.2" E	
TANGENT	PI		94+58.93	290735.94	187829.83				S 45° 11' 27.1" E	
TANGENT	PC		98+62.80	290337.76	187897.33				S 9° 37' 13.2" E	
ARC	PI	TPW	98+68.08	290332.55	187898.21	5.00	8.13	93° 08' 46.9"	S 9° 37' 13.2" E	LEFT
TANGENT	PT		98+70.92	290333.72	187903.36				N 77° 13' 59.9" E	
TANGENT	PDE		100+27.32	290368.28	188055.89				N 77° 13' 59.9" E	



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File Name: 21506IRR_05_8_IR-TPW-001_Geom-S5.dgn			Date:	Comments	Init.		No Revisions:				IM 0253-255		
Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:				21506		
 Stanley Consultants INC.									Designer: J. ROOT	Structure Numbers		Sheet Number 796	
 KRAEMER a joint venture									Detailer: R. HANSON	Subset Sheets: 5 of 9			
									Sheet Subset: IRRIG				

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NOTES:
1. SEE TIMNATH PUBLIC WORKS GEOMETRIC LAYOUT FOR ADDITIONAL INFORMATION.

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No Revisions:		Designer: J. ROOT			IM 0253-255	
Revised:		Detailer: R. HANSON			21506	
Void:		Sheet Subset: IRRIG			Sheet Number 797	
		Structure Numbers			Subset Sheets: 6 of 9	

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Print Date: 10/2/2020
File Name: 21506IRR_07_8-IR-TPW-001_P&P-S5.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted



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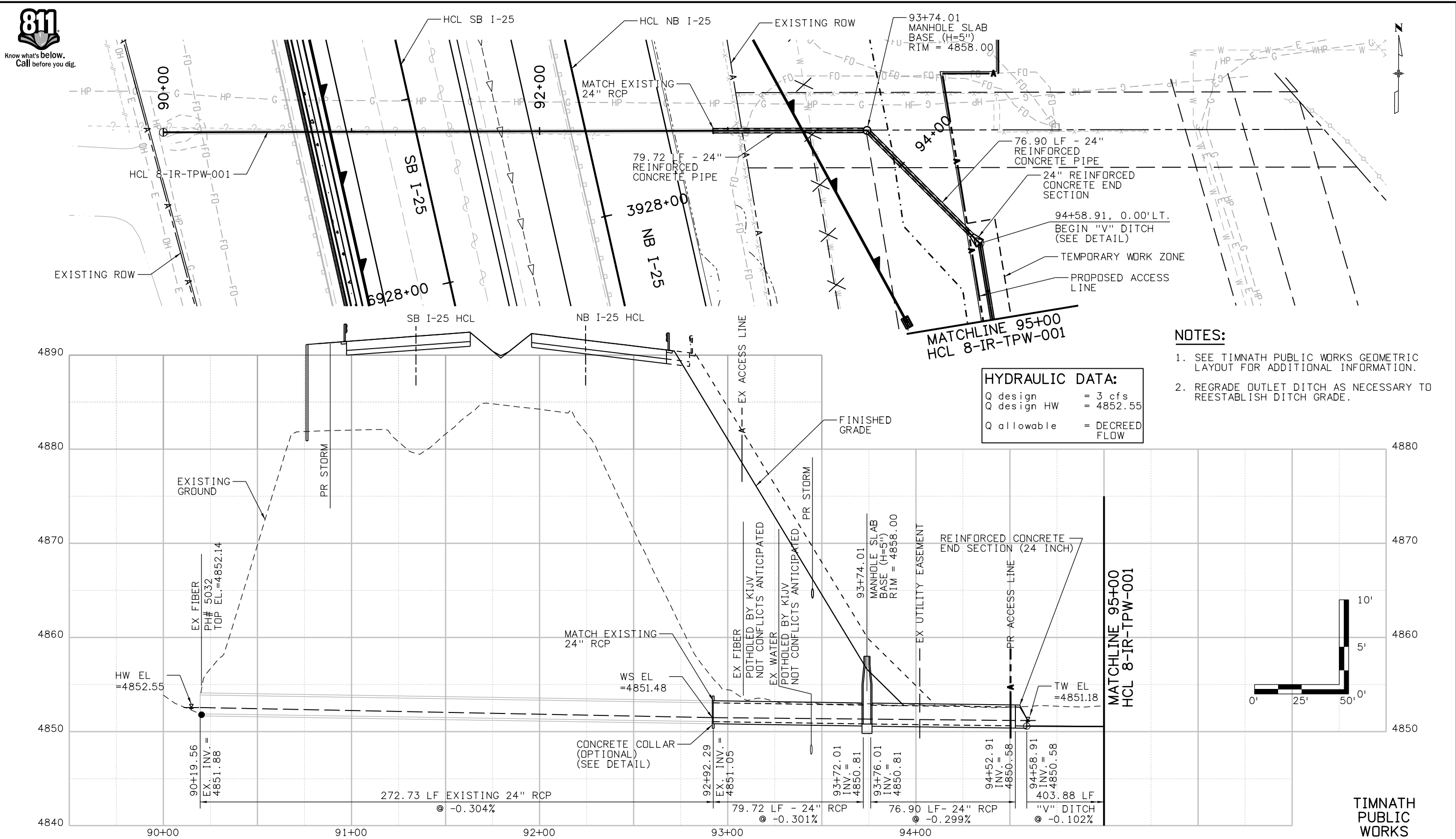


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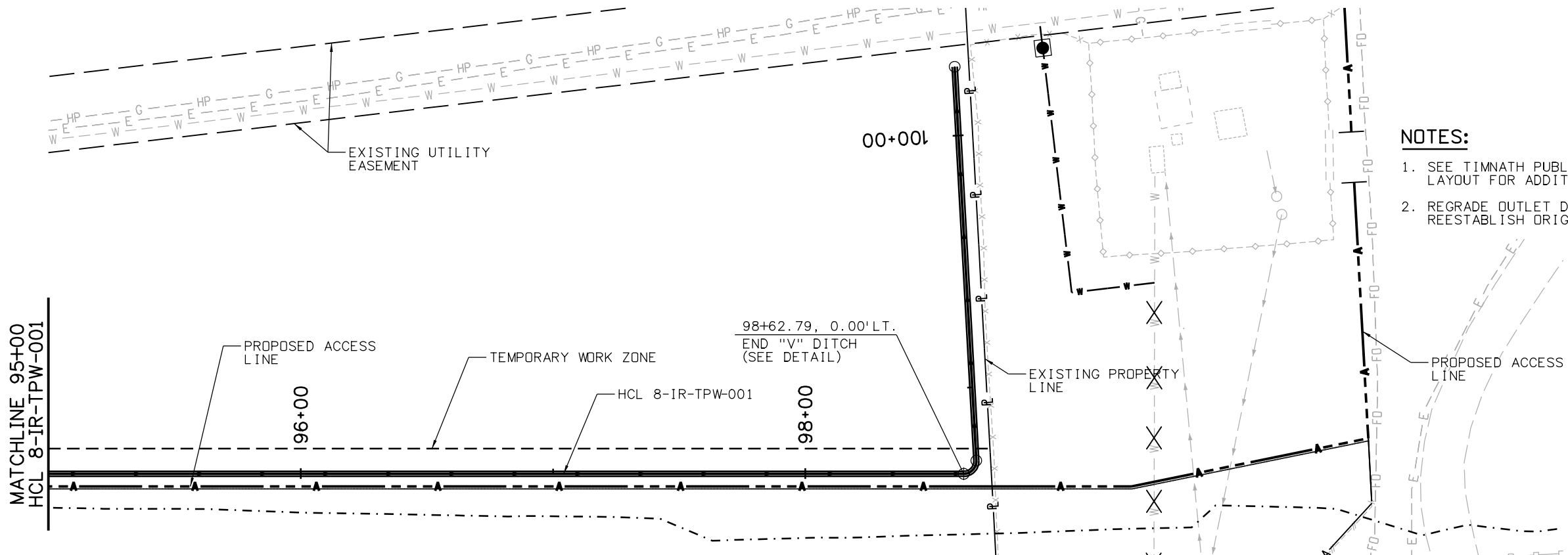
CJS

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No Revisions:		Designer: J. ROOT		IM 0253-255
Revised:		Detailer: R. HANSON		21506
Void:		Sheet Subset: IRRIG		Sheet Number 798
		Structure Numbers		
		Subset Sheets: 7 of 9		

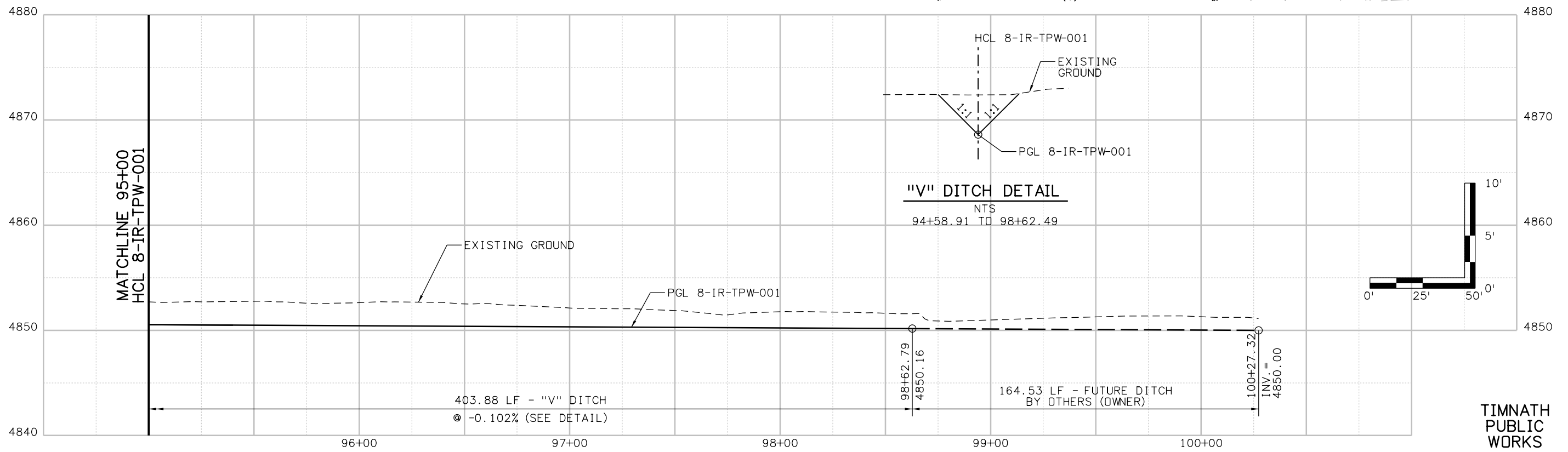


- NOTES:**
- SEE TIMNATH PUBLIC WORKS GEOMETRIC LAYOUT FOR ADDITIONAL INFORMATION.
 - REGRADE OUTLET DITCH AS NECESSARY TO REESTABLISH DITCH GRADE.

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- NOTES:**
1. SEE TIMNATH PUBLIC WORKS GEOMETRIC LAYOUT FOR ADDITIONAL INFORMATION.
 2. REGRADE OUTLET DITCH AS NECESSARY TO REESTABLISH ORIGINAL DITCH GRADE.

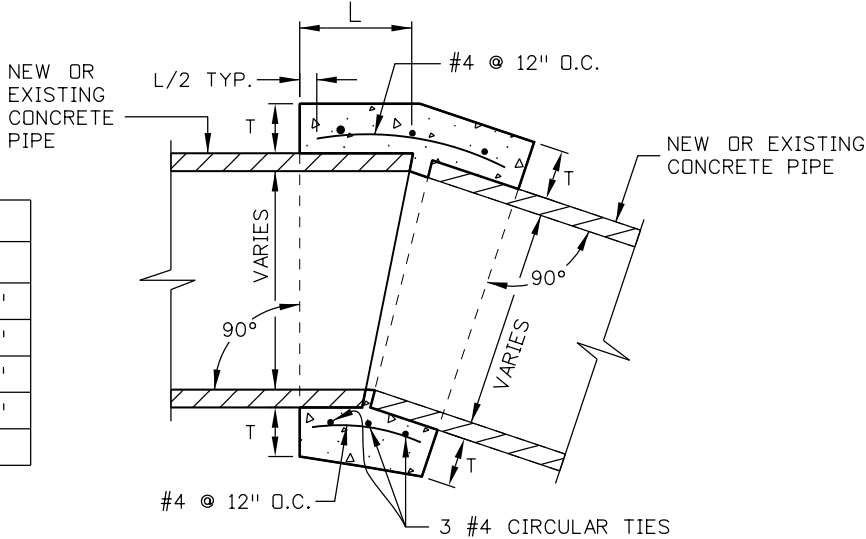


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File Name: 21506IRR_08_8-IR-TPW-001_P&P-S5.dgn			Date:	Comments	Init.		No Revisions:					IM 0253-255		
Horiz. Scale: 1:50 Vert. Scale: As Noted							Revised:		Designer: J. ROOT		Structure		21506	
Stanley Consultants INC. KRAEMER IL a joint venture							Void:		Detailer: R. HANSON		Numbers		Sheet Number 799	
									Sheet Subset: IRRIG		Subset Sheets: 8 of 9			

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N.T.S.		
D	L	T
15"	1.0	5"
18"	1.0	5"
24"	1.0	6"
36"	1.5	8"



CONCRETE PIPE COLLAR DETAIL
N. T. S.

NOTES:

1. A CONCRETE COLLAR IS REQUIRED WHERE THE MAXIMUM PERMISSIBLE PULL AT THE JOINT, AS SPECIFIED BY THE MANUFACTURER, IS EXCEEDED.
2. CONCRETE PIPE COLLARS SHALL NOT BE USED FOR PIPES WITH DIFFERENT DIAMETERS.
3. FOR PIPE SIZE NOT LISTED, USE NEXT SIZE LARGER.
4. OMIT REINFORCING ON ALL PIPES LESS THAN 24" IN DIAMETER WITH MINIMUM 2' COVER, AND SUBSTITUTE WITH WIRE MESH.
5. CONCRETE SHALL BE CDOT CLASS B.
6. CONCRETE PIPE COLLARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
7. THE INTERIOR SURFACE OF THE CONCRETE COLLAR SHALL BE FINISHED SMOOTH TO MATCH THE ADJOINING PIPE SURFACES. IF THE PROPOSED PIPE DEFLECTION CREATES A GAP WHICH PROHIBITS A SMOOTH INTERIOR FINISH, A MITERED CUT TO EACH PIPE SHALL BE REQUIRED.

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File Name: 21506IRR_09_8-IR-TPW-001_Detail-S5.dgn			Date:	Comments	Init.		No Revisions:		Designer: D. DYER Detailer: D. DYER Sheet Subset: IRRIG Structure Numbers Subset Sheets: 9 of 9			IM 0253-255	
Horiz. Scale: 1:20000 Vert. Scale: As Noted							Revised:					21506	
 Stanley Consultants INC.		 KRAEMER a joint venture					Void:		Sheet Number 800				