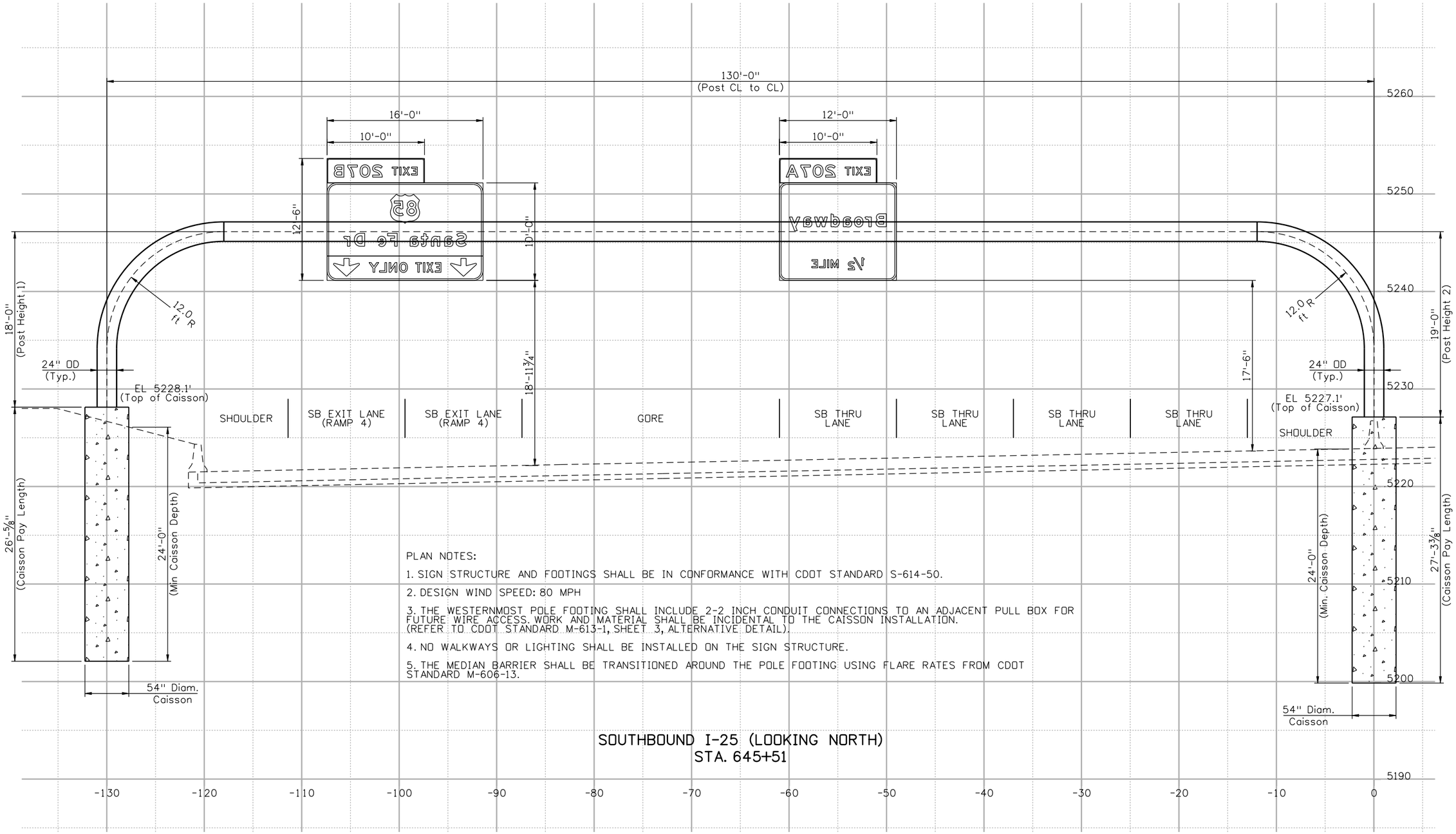


PLAN NOTES:

1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDOT STANDARD S-614-50.
2. DESIGN WIND SPEED: 80 MPH
3. THE WESTERNMOST POLE FOOTING SHALL INCLUDE 2-2 INCH CONDUIT CONNECTIONS TO AN ADJACENT PULL BOX FOR FUTURE WIRE ACCESS. WORK AND MATERIAL SHALL BE INCIDENTAL TO THE CAISSON INSTALLATION. (REFER TO CDOT STANDARD M-613-1, SHEET 3, ALTERNATIVE DETAIL).
4. NO WALKWAYS OR LIGHTING SHALL BE INSTALLED ON THE SIGN STRUCTURE.
5. THE MEDIAN BARRIER SHALL BE TRANSITIONED AROUND THE POLE FOOTING USING FLARE RATES FROM CDOT STANDARD M-606-13.

SOUTHBOUND I-25 (LOOKING NORTH)
STA. 645+51

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_GuideSign_Section6.dgn
Horiz. Scale: 1:10 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

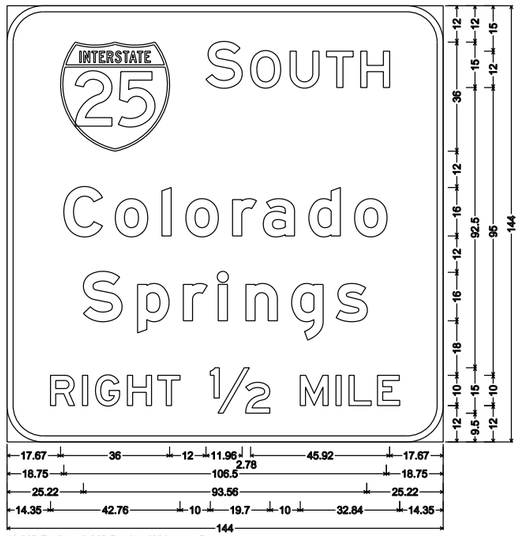
I-25/SANTA FE INTERCHANGE
GUIDE SIGN CROSS SECTION
STA. 645+51 (SB I-25)

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers: F-17-AG
Subset Sheets: S-6 of 6

Project No./Code
BR 0252-407
17783
Sheet Number 401

Stan 7:47:06 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_GuideSign_Section6.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

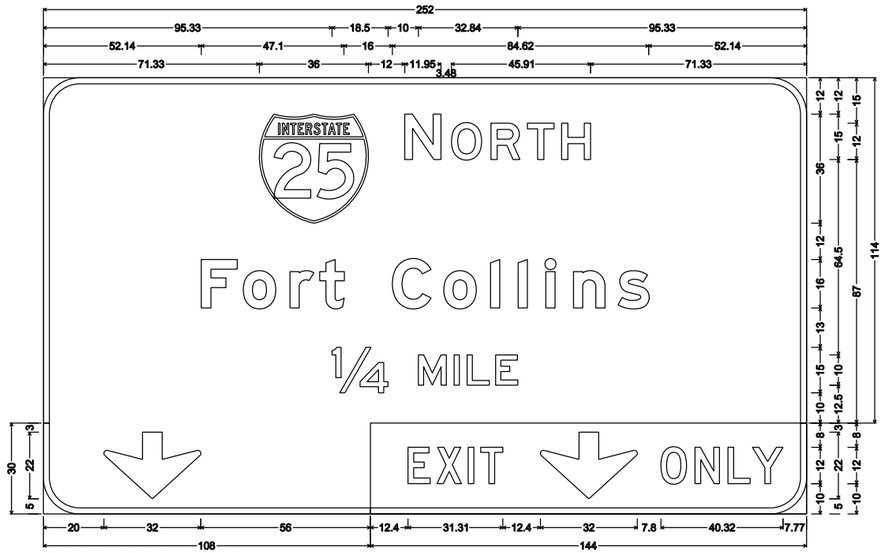
SIGN #1A



12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Colorado" E Mod; "Springs" E Mod; "RIGHT ½ MILE" E;
Table of letter and object lefts.

S 17.67	C 18.75	S 25.22	R 14.35			
O 65.67	e 35.74	p 43.10	I 24.89			
O 80.41	I 51.15	r 58.21	G 29.19			
U 93.44	e 59.05	I 69.73	H 39.74			
T 105.48	r 74.46	n 78.86	T 49.77	½ 67.11	M 96.81	I 106.61
H 116.76	a 84.61	g 93.97	L 112.90	E 122.31		
	d 99.65	s 108.65				
	e 114.75					

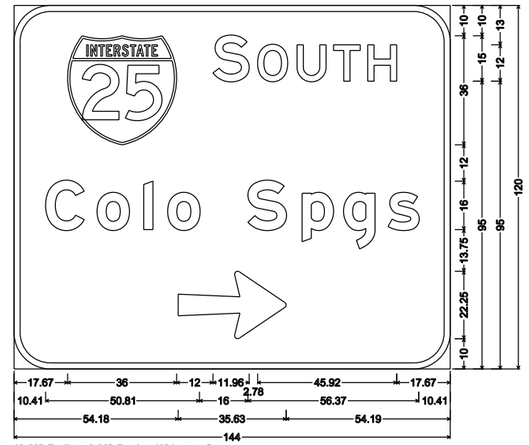
SIGN #1B



12.00" Radius, 2.00" Border, White on Green;
"NORTH" E; "Fort Collins" E Mod; "¼ MILE" E;
12.00" Radius, 2.00" Border, White on Green;
Down Arrow AR-C1 - 22.00" 270°;
12.00" Radius, 2.00" Border, White on Yellow;
"EXIT" Black D; Down Arrow AR-C1 - 22.00" 270° Black; "ONLY" Black D;
Table of letter and object lefts.

N 71.33	F 52.14	¼ 95.33	20.00	E 12.40					
O 119.33	e 66.03	M 123.83	X 21.96	I 32.27					
O 134.76	r 81.43	I 135.63	T 36.40	56.11					
R 147.79	t 91.24	L 139.92	O 95.91	M 107.16	L 118.04	Y 126.10			
T 159.83	C 115.24	E 149.33							
H 171.11	e 132.24	I 147.64	I 156.78	I 165.91	n 175.05	s 189.73			

SIGN #3



12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Colo Spgs" E Mod; Arrow AR-A3 - 35.63" 0";
Table of letter and object lefts.

S 17.67	C 10.41	54.18						
O 65.67	e 27.41	I 42.81	e 50.72	S 77.22	p 95.10	q 108.78	s 123.46	
O 80.41	I 50.81	e 93.22						
U 93.44	16							
T 105.48	56.37							
H 116.76	10.41							

Stan 7:47:09 AM K:\08276\16311\Phase 2\Trafic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts01.dgn
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Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Sign_Layouts01.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

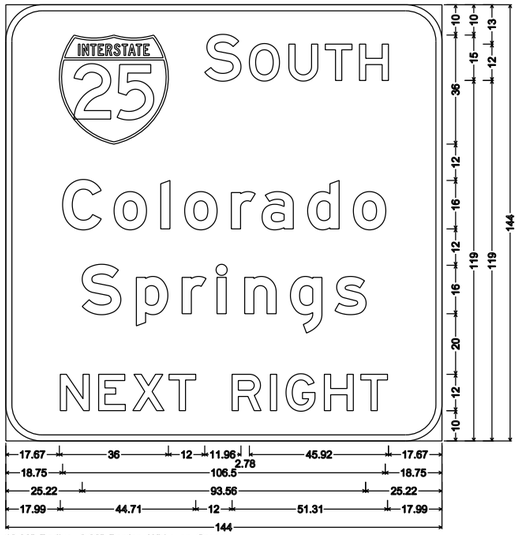
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: SL-1 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 402

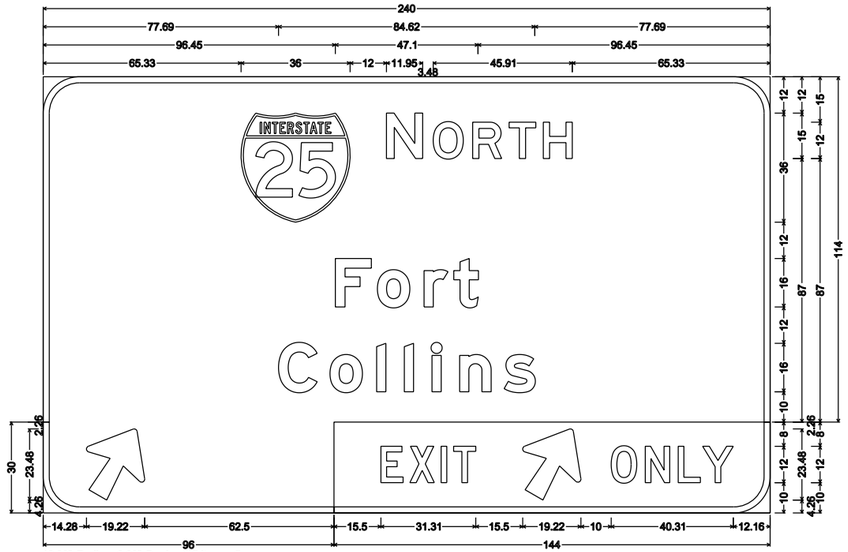
SIGN #8A



12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Colorado" E Mod; "Springs" E Mod; "NEXT RIGHT" E;
Table of letter and object lefts.

S 17.67	O 65.67	U 80.41	T 93.44	H 105.48	116.76	
C 18.75	o 35.74	l 51.15	o 59.05	r 74.46	a 84.61	d 99.65	o 114.75
S 25.22	p 43.10	r 58.21	i 69.73	n 78.86	g 93.97	s 108.65	
N 17.99	E 30.64	X 41.93	T 53.89	R 74.70	I 87.35	G 92.51	H 105.17	T 117.20

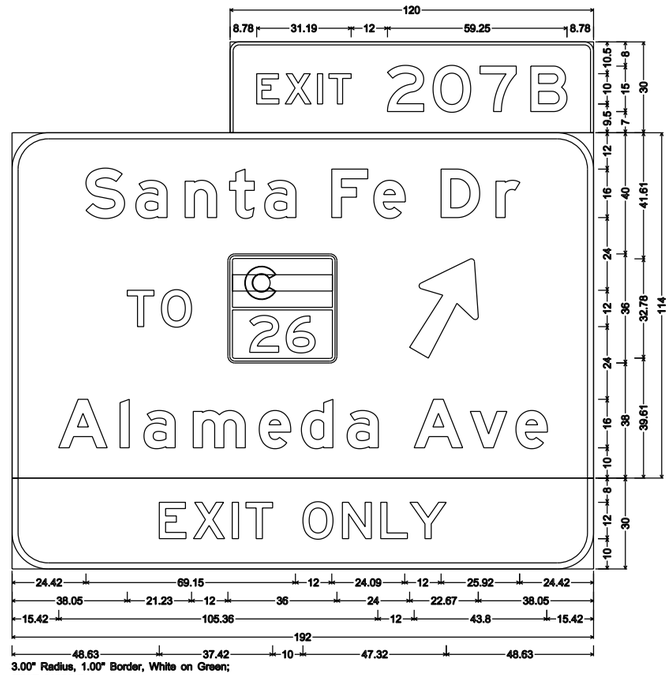
SIGN #8B



12.00" Radius, 2.00" Border, White on Green;
"NORTH" E; "Fort" E Mod; "Collins" E Mod;
12.00" Radius, 2.00" Border, White on Green;
Arrow AR-B3 - 25.00" 60";
12.00" Radius, 2.00" Border, White on Yellow;
"EXIT" Black D; Arrow AR-B3 - 25.00" 60" Black; "ONLY" Black D;
Table of letter and object lefts.

N 65.33	N 113.33	O 128.76	R 141.79	T 153.83	H 165.11		
F 96.45	o 110.34	r 125.74	t 135.55				
C 77.69	o 94.68	l 110.09	l 119.23	i 128.36	R 137.50	a 152.18	
14.28							
E 15.50	X 25.06	I 35.38	T 39.50	62.31	O 91.53	N 102.78	L 113.66	Y 121.72

SIGN #12



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"Santa Fe Dr" E Mod; "TO" E; Arrow AR-A3 - 35.63" 60"; "Alameda Ave" E Mod;
12.00" Radius, 2.00" Border, White on Yellow;
"EXIT ONLY" Black E;
Table of letter and object lefts.

E 8.78	X 18.19	I 28.84	T 32.62	Z 51.97	O 67.01	Z 82.53	B 99.26	
S 24.42	a 40.89	n 57.15	t 71.84	a 83.44	F 105.57	e 119.46	D 141.66	r 159.78
T 38.05	O 49.34	71.28	131.28					
A 15.42	i 35.67	a 43.57	m 59.84	e 81.62	d 95.54	a 110.65	A 132.78	v 151.31	e 166.38
E 48.63	X 59.91	I 72.70	T 77.23	O 96.05	N 109.08	L 121.73	Y 131.37	

Stan 7:47:14 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts02.dgn
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Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Sign_Layouts02.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

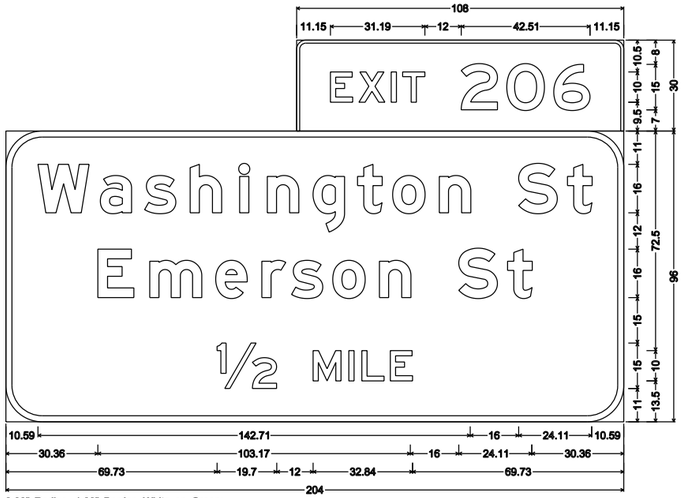
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: SL-2 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 403

SIGN #10A,B

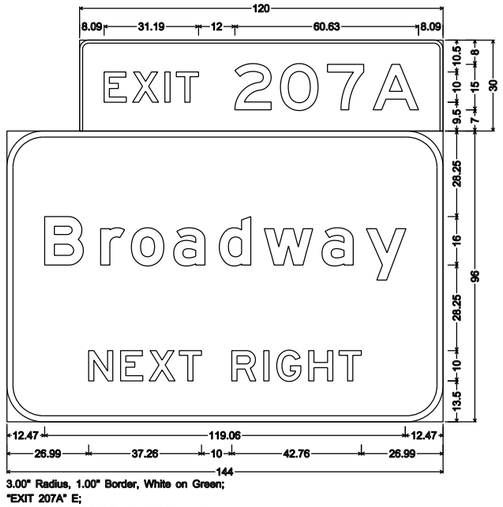


3.00" Radius, 1.00" Border, White on Green;
"EXIT 206" E;
12.00" Radius, 2.00" Border, White on Green;
"Washington St" E Mod; "Emerson St" E Mod; "½" E; "MILE" E;
Table of letter and object lefts.

E 11.15	X 20.56	I 31.21	T 34.99	2 54.34	O 69.38	6 84.89

W 10.59	a 31.19	s 45.80	h 60.84	l 77.17	n 86.31	g 101.41	t 116.10	o 127.70	n 143.10	S 169.30	t 185.41	
E 30.36	m 47.49	o 69.28	r 84.50	s 94.31	o 107.92	n 123.33	S 149.53	t 165.64				
½ 69.73	M 101.43	I 113.23	L 117.52	E 126.93								

SIGN #10C,D



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207A" E;
12.00" Radius, 2.00" Border, White on Green;
"Broadway" E Mod; "NEXT RIGHT" E;
Table of letter and object lefts.

E 8.09	X 17.50	I 28.15	T 31.93	2 51.28	O 66.32	7 81.83	A 96.91

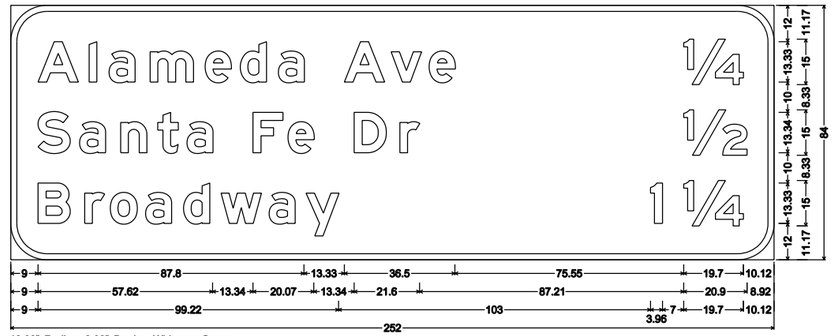
B 12.47	r 30.95	o 41.10	a 55.06	d 70.12	w 84.98	a 104.04	y 118.65					
N 26.99	E 37.53	X 46.94	T 56.91	R 74.25	I 84.80	G 89.09	H 99.64	T 109.67				

SIGN #31

12.00" Radius, 2.00" Border, White on Green;
"Broadway" E Mod; "Washington St" E Mod; "Emerson St" E Mod;
12.00" Radius, 2.00" Border, White on Green;
"¾" E Mod; "1" E Mod; "¼" E Mod;
Table of letter and object lefts.

B 9.00	r 24.40	o 32.86	a 44.51	d 57.04	w 69.43	a 85.31	y 97.49					
W 9.00	a 26.17	s 38.35	h 50.87	l 64.49	n 72.10	g 84.69	t 96.92	o 106.59	n 119.43	S 141.26	t 154.69	
E 9.00	m 23.27	o 41.43	r 54.12	s 62.29	o 73.63	n 86.47	S 108.30	t 121.73				
¾ 27.70	+192											
1 17.74	¼ 31.30											
+192	+192											

SIGN #34



12.00" Radius, 2.00" Border, White on Green;
"Alameda Ave" E Mod; "Santa Fe Dr" E Mod; "Broadway" E Mod; "1" E Mod; "¼" E Mod; "½" E Mod; "¼" E Mod;
Table of letter and object lefts.

A 9.00	l 25.87	a 32.46	m 46.01	e 64.17	d 75.77	a 88.35	A 110.13	y 125.57	e 138.13	¼ 222.18
S 9.00	a 22.72	n 36.28	t 48.52	a 58.18	F 79.96	e 91.53	D 113.37	r 128.47	½ 222.18	
B 9.00	r 24.40	o 32.86	a 44.51	d 57.04	w 69.43	a 85.31	y 97.49	l 211.22	¼ 222.18	

Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_Sign_Layouts03.dgn	Date:	Comments	Init.
Horiz. Scale: 1:50 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: SL-3 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 404

Stan 7:47:20 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts03.dgn
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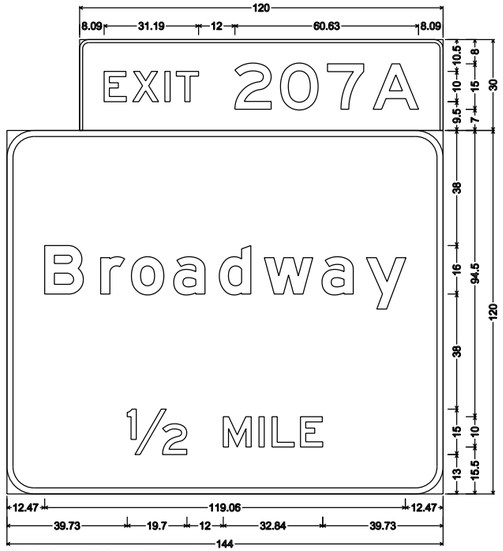
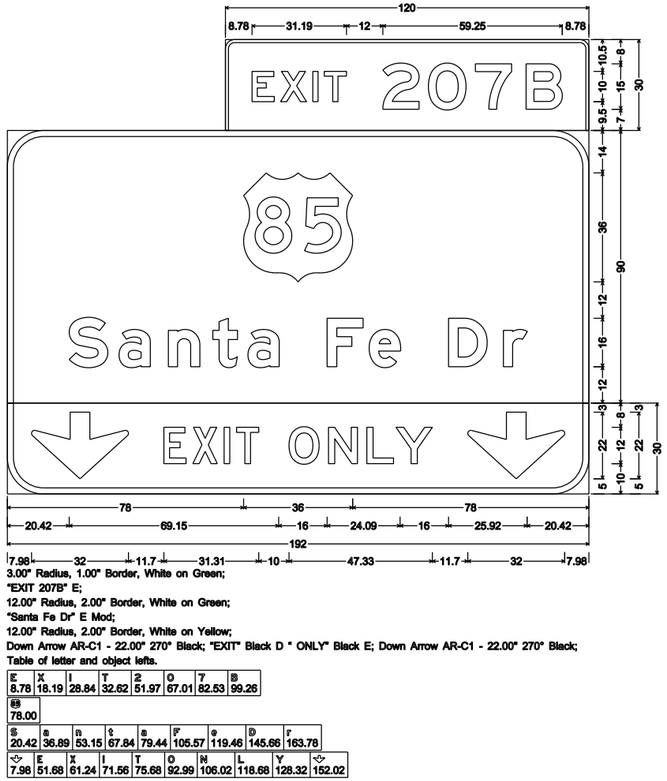
SIGN #19A,B



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207A" E;
9.00" Radius, 2.00" Border, White on Green;
"Broadway" E Mod; "½" E; "MILE" E;
Table of letter and object lefts.

E 8.09	X 17.50	I 26.15	T 31.93	2 51.28	O 66.32	7 81.83	A 96.91
B 12.47	r 30.95	e 41.10	a 55.06	d 70.12	w 84.98	a 104.04	y 118.65
½ 39.73	M 71.43	I 83.23	L 87.52	E 96.93			

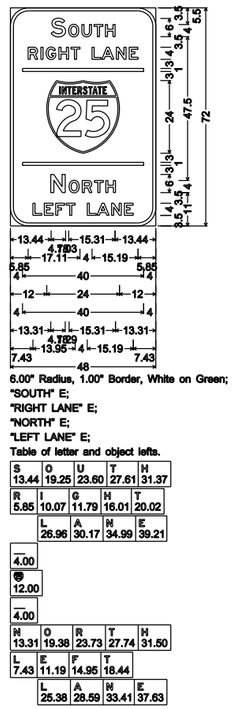
SIGN #19C,D



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"Santa Fe Dr" E Mod;
12.00" Radius, 2.00" Border, White on Yellow;
Down Arrow AR-C1 - 22.00" 270° Black; "EXIT" Black D " ONLY" Black E; Down Arrow AR-C1 - 22.00" 270° Black;
Table of letter and object lefts.

E 8.78	X 18.19	I 28.84	T 32.62	2 51.97	O 67.01	7 82.53	B 99.26
w 78.00							
S 20.42	a 36.89	n 53.15	t 67.84	a 79.44	F 105.57	e 119.46	D 145.66	r 163.78
⇩ 7.98	E 51.68	X 61.24	I 71.56	T 75.68	O 92.99	N 106.02	L 118.68	Y 128.32	⇩ 152.02

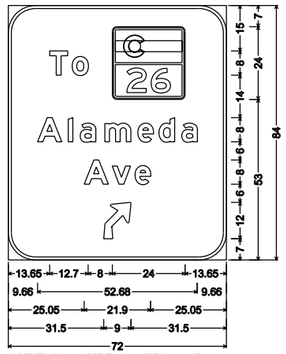
SIGN #20
SIGN #21



6.00" Radius, 1.00" Border, White on Green;
"SOUTH" E;
"RIGHT LANE" E;
"NORTH" E;
"LEFT LANE" E;
Table of letter and object lefts.

S 13.44	O 19.25	U 23.60	T 27.61	H 31.37
R 5.85	I 10.07	G 11.79	H 16.01	T 20.02
	L 26.96	A 30.17	N 34.99	E 39.21
— 4.00				
e 12.00				
— 4.00				
N 13.31	O 19.38	R 23.73	T 27.74	H 31.50
L 7.43	E 11.19	F 14.95	T 18.44	
	L 25.38	A 28.59	N 33.41	E 37.63

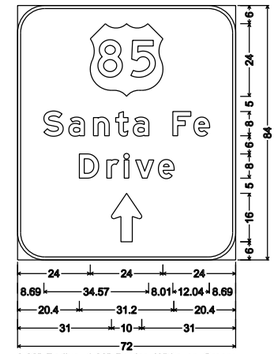
SIGN #24



9.00" Radius, 1.00" Border, White on Green;
"To" E Mod; "Alameda" E Mod;
"Ave" E Mod;
45 Deg Advanced Turn Arrow 9.00" X 12.00";
Table of letter and object lefts.

T 13.65	o 21.10	26 34.35					
A 9.66	l 19.78	a 23.74	m 31.87	e 42.76	d 49.72	a 57.27	
A 25.05	v 34.32	e 41.85					
⇗ 31.50							

SIGN #42



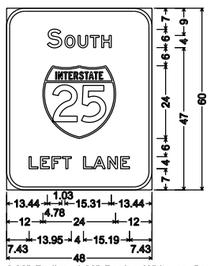
9.00" Radius, 1.00" Border, White on Green;
"Santa Fe" E Mod; "Drive" E Mod;
Standard Arrow Custom 16.00" X 10.00" 90°;
Table of letter and object lefts.

w 24.00							
S 8.69	a 16.92	n 25.06	t 32.40	a 38.20	F 51.27	e 58.21	
D 20.40	r 29.46	I 35.22	v 38.97	e 46.50			
⇧ 31.00							

Print Date: 10/20/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE GUIDE SIGN LAYOUTS		Project No./Code
File Name: 16311TRAF_PH2_Sign_Layouts04.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:			BR 0252-407
Horiz. Scale: 1:50	Vert. Scale: As Noted				Region 6 RLB	Revised:	Designer: LCL	Structure Numbers	17783
Unit Information	Unit Leader Initials					Void:	Detailer: LCL		Sheet Number 405
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TRAFFIC	Subset Sheets: SL-4 of 7	

Stan 7:47:27 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts04.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

SIGN #27



6.00" Radius, 1.00" Border, White on Green;
"SOUTH" E;
"LEFT LANE" E;
Table of letter and object lefts.

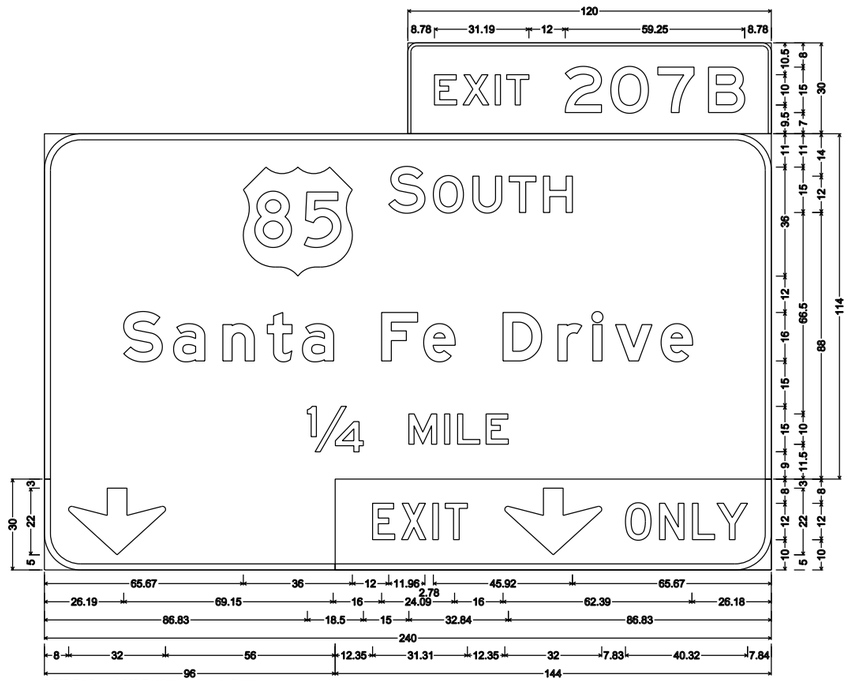
S 13.44	O 19.25	U 23.60	T 27.61	H 31.37	
12.00					
L 7.43	E 11.19	F 14.95	T 18.44		
L 25.38	A 28.59	N 33.41	E 37.63		

SIGN #43

6.0" Radius, 1.0" Border, White on Green;
"Frontage Rd" D;
"TO" D;
Standard Arrow Custom 9.0" X 4.0" 0";
"Center Ave" D;
"Cherokee St" D;
Table of letter and object lefts.

F 4.4	r 7.7	o 9.9	n 13.3	t 16.5	e 19.0	g 22.3	e 25.5	
R 31.8	d 35.3							
3.0								
T 11.5	O 14.7	⇨ 21.5						
C 5.5	e 9.1	n 12.4	t 15.6	e 18.1	r 21.4			
A 27.1	v 30.9	e 34.3						
C 4.4	h 8.2	e 11.4	r 14.7	o 16.9	k 20.3	e 23.3	e 26.3	
S 32.5	t 35.9							

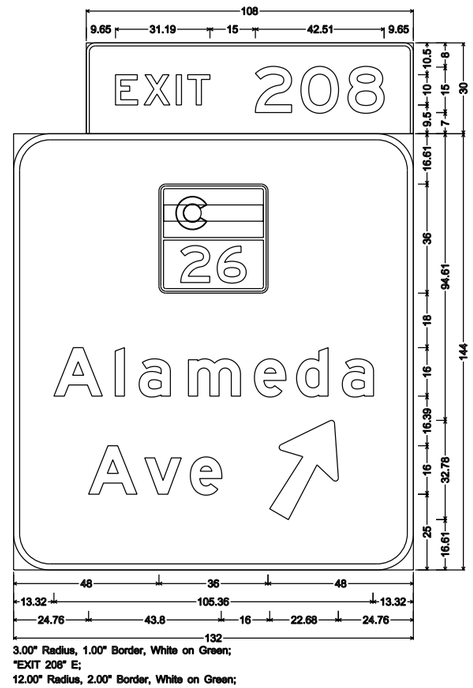
SIGN #32A,B



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Santa Fe Drive" E Mod; "¼ MILE" E;
12.00" Radius, 2.00" Border, White on Green;
Down Arrow AR-C1 - 22.00° 270°;
12.00" Radius, 2.00" Border, White on Yellow;
"EXIT" Black D; Down Arrow AR-C1 - 22.00° 270° Black; "ONLY" Black D;
Table of letter and object lefts.

E 8.78	X 18.19	I 28.84	T 32.62	2 51.97	O 67.01	7 82.53	B 99.26	
85 65.67	S 113.67	O 128.41	U 141.44	T 153.48	H 164.76			
S 26.19	o 42.66	u 58.92	t 73.61	h 85.21	F 111.34	e 125.23	D 151.43	r 169.55	I 181.07	v 188.55	e 203.61
¼ 86.83	M 120.33	I 132.13	L 136.42	E 145.83							
8.00											
E 12.35	X 21.91	I 32.22	T 36.35	56.01	O 95.84	H 107.09	L 117.97	Y 126.03			

SIGN #32C,D



3.00" Radius, 1.00" Border, White on Green;
"EXIT 208" E;
12.00" Radius, 2.00" Border, White on Green;
"Alameda" E Mod; "Ave" E Mod; Arrow AR-A3 - 35.63° 60°;
Table of letter and object lefts.

E 9.65	X 19.06	I 29.71	T 33.49	2 55.84	O 70.88	B 86.39	
26 48.00							
A 13.32	l 33.57	a 41.47	m 57.74	e 79.52	d 93.44	a 108.55	
A 24.76	v 43.30	e 58.36	84.56				

Stan 7:47:33 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts05.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Sign_Layouts05.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: SL-5 of 7

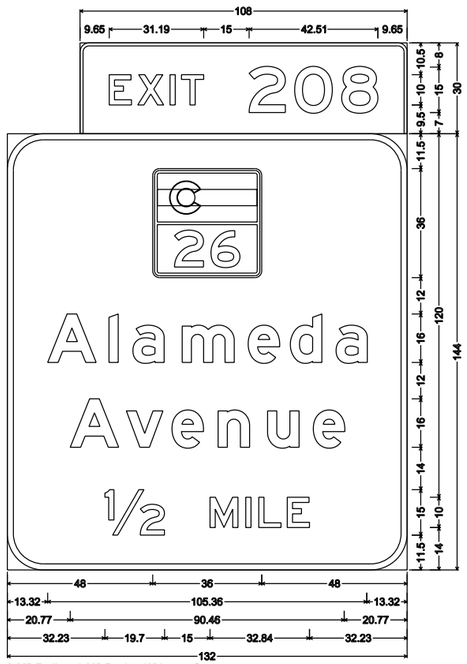
Project No./Code
BR 0252-407
17783
Sheet Number 406

SIGN #36A,B

3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Santa Fe" E Mod; "Drive" E Mod; "¾ MILE" E;
Table of letter and object lefts.

E 13.28	X 22.69	I 33.34	T 37.12	2 59.47	O 74.51	7 90.03	B 106.76
85 11.67	S 59.67	O 74.41	U 87.44	T 99.48	H 110.76		
S 11.38	a 27.85	n 44.11	t 58.80	a 70.40	F 96.53	e 110.42	
D 34.81	r 52.92	I 64.44	v 71.93	e 87.00			
¾ 30.85	M 68.31	I 80.10	L 84.40	E 93.80			

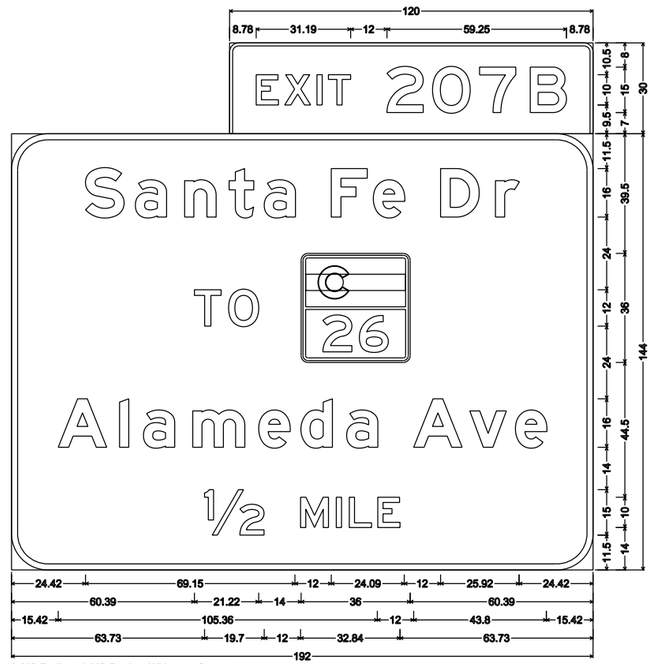
SIGN #36C,D



3.00" Radius, 1.00" Border, White on Green;
"EXIT 208" E;
12.00" Radius, 2.00" Border, White on Green;
"Alameda" E Mod; "Avenue" E Mod; "½ MILE" E;
Table of letter and object lefts.

E 9.65	X 19.06	I 29.71	T 33.49	2 55.84	O 70.88	6 86.39	
26 48.00							
A 13.32	l 33.57	e 41.47	m 57.74	e 79.52	d 93.44	a 108.55	
A 20.77	v 39.30	e 54.37	n 69.59	u 85.93	e 101.03		
½ 32.23	M 66.93	I 78.73	L 83.02	E 92.43			

SIGN #39



3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"Santa Fe Dr" E Mod; "TO" E; "Alameda Ave" E Mod; "½ MILE" E;
Table of letter and object lefts.

E 8.78	X 18.19	I 28.84	T 32.62	2 51.97	O 67.01	7 82.53	B 99.26	
S 24.42	a 40.89	n 57.15	t 71.84	a 83.44	F 105.57	e 119.46	D 141.66	r 159.78
T 60.39	O 71.67	26 95.61						
A 15.42	l 35.67	a 43.57	m 59.84	e 81.62	d 95.54	a 110.65	A 132.78	v 151.31	e 166.38
½ 63.73	M 95.43	I 107.23	L 111.52	E 120.93				

Print Date: 10/20/2010		Sheet Revisions		
File Name: 16311TRAF_PH2_Sign_Layouts06.dgn		Date:	Comments	Init.
Horiz. Scale: 1:50 Vert. Scale: As Noted				
Unit Information Unit Leader Initials				
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

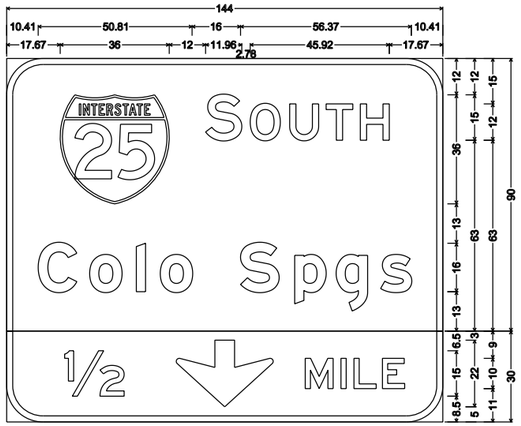
I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: SL-6 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 407

Stan 7:47:39 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts06.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

SIGN #29A



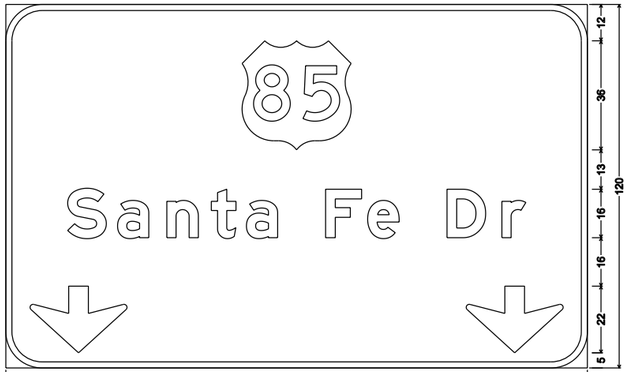
12.00" Radius, 2.00" Border, White on Green;
"SOUTH" E; "Colo Spgs" E Mod;
12.00" Radius, 2.00" Border, White on Yellow;
"½" Black E; Down Arrow AR-C1 - 22.00" 270° Black; "MILE" Black E;
Table of letter and object lefts.

S 17.67	S 65.67	O 80.41	U 93.44	T 105.48	H 116.76

C 10.41	o 27.41	l 42.81	o 50.72	S 77.22	p 95.10	g 108.78	s 123.46

½ 19.14	55.99	M 98.57	l 110.37	L 114.67	E 124.07

SIGN #29A



12.00" Radius, 2.00" Border, White on Green;
"Santa Fe Dr" E Mod; Down Arrow AR-C1 - 22.00" 270°; Down Arrow AR-C1 - 22.00" 270°;
Table of letter and object lefts.

S 78.00

S 20.42	a 36.89	n 53.15	t 67.84	a 79.44	F 105.57	e 119.46	D 145.66	r 163.78	

8.00	152.00

SIGN #41

3.00" Radius, 1.00" Border, White on Green;
"EXIT 207B" E;
12.00" Radius, 2.00" Border, White on Green;
"Santa Fe Dr" E Mod; "TO" E; "Alameda Ave" E Mod;
12.00" Radius, 2.00" Border, White on Yellow;
"EXIT" Black D; Down Arrow AR-C1 - 22.00" 270° Black; "ONLY" Black D;
Table of letter and object lefts.

E 8.78	X 18.19	I 26.84	T 32.62	2 51.97	O 67.01	7 82.53	B 99.26	

S 24.42	a 40.89	n 57.15	t 71.84	a 83.44	F 105.57	e 119.46	D 141.66	r 159.78

T 60.39	O 71.67	26 95.61

A 15.42	l 35.67	a 43.57	m 59.84	e 81.62	d 95.54	a 110.65	A 132.78	v 151.31	e 166.38

E 25.35	X 34.91	I 45.22	T 49.35	80.01	O 130.85	H 142.10	L 152.98	Y 161.04

Stan 7:47:44 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Sign_Layouts07.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Sign_Layouts07.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
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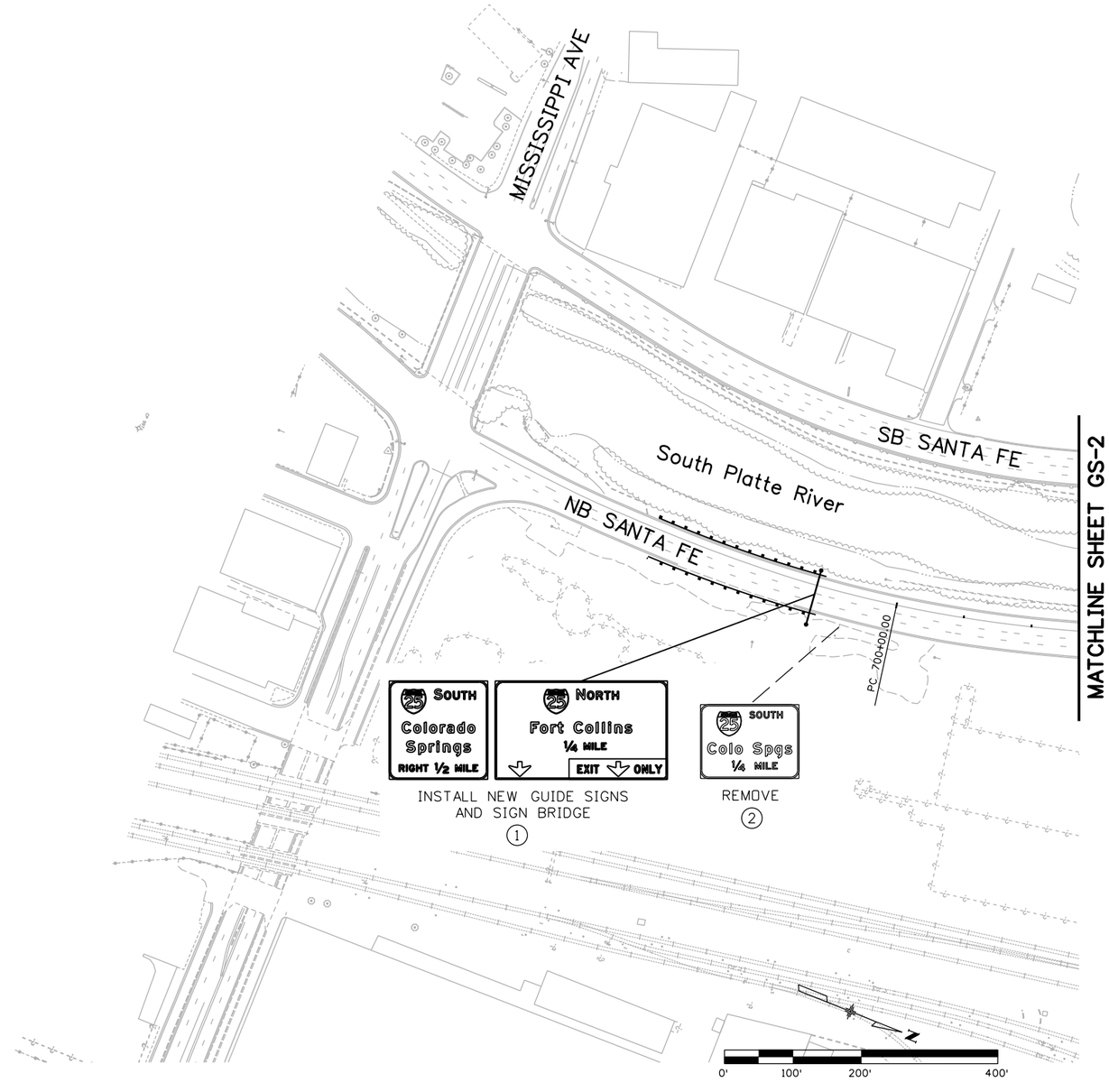
Revised:
Void:

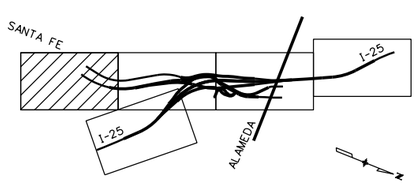
I-25/SANTA FE INTERCHANGE
GUIDE SIGN
LAYOUTS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: SL-7 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 408

Know what's below. Call before you dig.





MAPKEY

Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_GuideSignPlan1.dgn	Date:	Comments	Init.
Horiz. Scale: 1:200 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

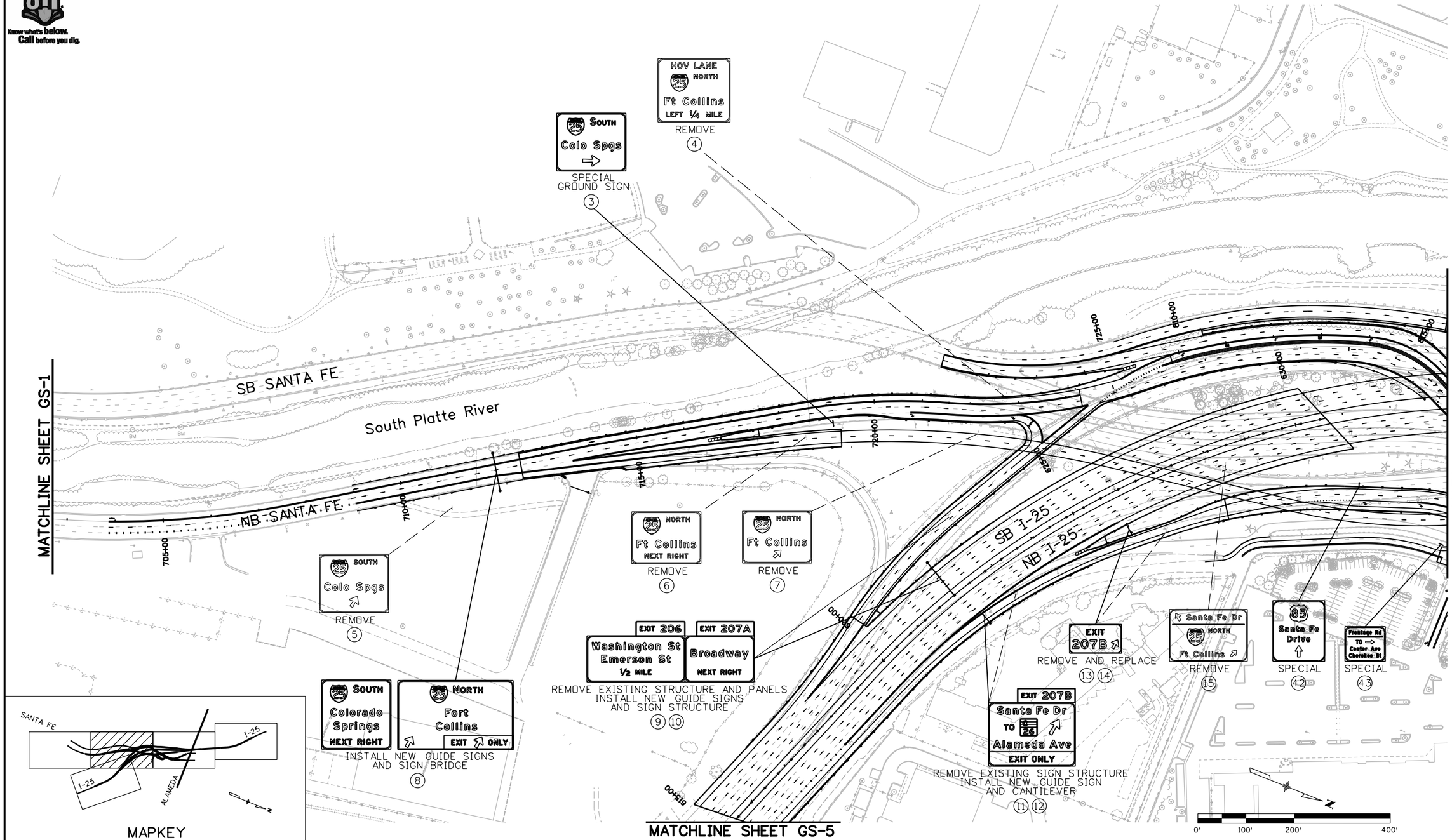
I-25/SANTA FE INTERCHANGE
GUIDE SIGN PLAN

Designer: LCL
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: GS-1 of 5

Project No./Code
BR 0252-407
17783
Sheet Number 409

Stan 7:47:51 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_GuideSignPlan1.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.



Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_GuideSignPlan2.dgn	Date:	Comments	Init.
Horiz. Scale: 1:200 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN PLAN

Designer:	LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	GS-2 of 5

Project No./Code
BR 0252-407
17783
Sheet Number 410

Stan 7:47:57 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_GuideSignPlan2.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

S. PLATTE RIVER DRIVE

EXIT 207A
Broadway
1/2 MILE

EXIT 207B
85 Santa Fe Dr
EXIT ONLY

INSTALL NEW GUIDE SIGNS AND SIGN BRIDGE STRUCTURE
19

JCT 25 RIGHT LANE
REMOVE
22

SOUTH RIGHT LANE 25 NORTH LEFT LANE
SPECIAL
20 21

S. LIPAN ST

EXISTING VMS (TO REMAIN)

EXIT 207B
85 SOUTH
Santa Fe Dr
EXIT ONLY
REMOVE
17

EXIT 207B
E5-1a
18

EXIT
207B
REMOVE
16

EXITS 209A-B
6 WEST
6th Avenue
1 MILE
EXISTING (TO REMAIN)

ALAMEDA AVE
6 WEST 26
EXISTING (TO REMAIN)

EXIT
208
EXISTING (TO REMAIN)

S. Platte River

MATCHLINE SHEET GS-2

835+00
840+00
845+00
650+00
855+00
820+00
825+00
830+00
745+00

SB I-25
NB I-25

KALAMATH ST

SOUTH 25 LEFT LANE
SPECIAL
27

SB SANTA FE

NB SANTA FE

ALAMEDA AVE

Santa Fe Dr 1/4
Broadway 3/4
Washington St 1 1/4
30
REPLACE EXISTING PANEL WITH
Broadway 3/4
Washington St 1 1/4
Emerson St
31

85 SOUTH
Santa Fe Dr
25 SOUTH
Colo Spgs
REMOVE
23

SOUTH 25
Colo Spgs
REMOVE
26

SOUTH 25
Colo Spgs
1/4 MILE
NORTH 25
Ft Collins
EXIT ONLY
REMOVE PANELS
28

To 25 Alameda Ave
SPECIAL
24

ALAMEDA AVENUE
85 SOUTH
SANTA FE DR
REMOVE
25

SOUTH 25
Colo Spgs
1/2 MILE
85
Santa Fe Dr
SPECIAL
29

SOUTH LEFT LANE 25 NORTH
EXISTING (TO REMAIN)

0' 100' 200' 400'

MATCHLINE SHEET GS-4

SANTA FE
I-25
ALAMEDA
MAPKEY

Print Date: 10/20/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_GuideSignPlan3.dgn	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:200 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way, Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE GUIDE SIGN PLAN			Project No./Code
Designer: LCL	Structure Numbers		BR 0252-407
Detailer: SYS			17783
Sheet Subset: TRAFFIC	Subset Sheets: GS-3 of 5		Sheet Number 411

Stan 7:48:07 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_GuideSignPlan3.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

S. Platte River

SB I-25

NB I-25

MATCHLINE SHEET GS-3

EXIT 207B — 85 SOUTH — Santa Fe Drive — 1/4 MILE — EXIT ONLY
EXIT 208 — 26 — Alameda Ave
INSTALL NEW GUIDE SIGN PANELS
32

EXIT 207B — 85 SOUTH — Santa Fe Drive — 1/2 MILE — EXIT ONLY
EXIT 208 — 26 — Alameda Avenue — EXIT ONLY
REMOVE
33

6th Ave	3/4
8th Ave	1
Colfax Ave	1 1/2

EXISTING (TO REMAIN)

Alameda Ave	1/4
Santa Fe Dr	1/2
Broadway	1 1/4

INSTALL NEW GUIDE SIGN PANEL
34

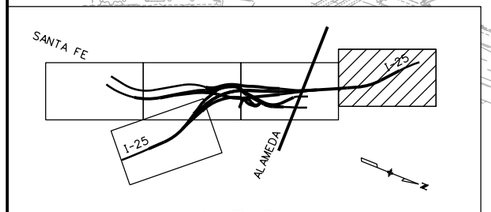
Alameda Ave	1/4
Santa Fe Dr	3/4
Broadway	1 1/4

REMOVE
35

EXIT 207B — 85 SOUTH — Santa Fe Drive — 3/4 MILE
EXIT 208 — 26 — Alameda Avenue — 1/2 MILE
INSTALL NEW GUIDE SIGN PANELS
36

EXIT 207B — 85 SOUTH — Santa Fe Drive — 1 MILE — EXIT ONLY
EXIT 208 — 26 — Alameda Avenue — 1/2 MILE — EXIT ONLY
REMOVE
37

EXIT 209C — 8th Avenue — 3/4 MILE
EXITS 209A-B — 6 WEST — 6th Avenue — 1/2 MILE
EXISTING (TO REMAIN)



MAPKEY

0' 100' 200' 400'

N

Stan 7:48:24 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_GuideSignPlan4.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Print Date:	10/20/2010
File Name:	16311TRAF_PH2_GuideSignPlan4.dgn
Horiz. Scale:	1:200
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
GUIDE SIGN PLAN

Designer:	LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	GS-4 of 5

Project No./Code
BR 0252-407
17783
Sheet Number 412

Know what's below. Call before you dig.

RTD Light Rail Station

EXIT 207A
Broadway ⇗
EXISTING
(TO REMAIN)

MATCHLINE SHEET GS-2

612400

SB I-25

NB I-25

EXIT 207B
Santa Fe Dr
TO 85 26
Alameda Ave
EXIT ONLY

REMOVE EXISTING SIGN AND O.H. LIGHTS
REPLACE WITH NEW GUIDE SIGN PANEL
40 41

EXIT 207B
Santa Fe Dr
TO 85 26
Alameda Ave
3/4 MILE
EXIT ONLY

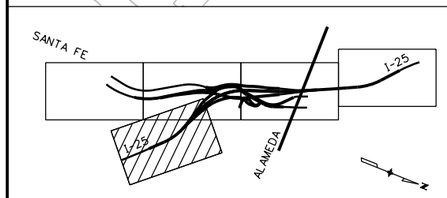
REMOVE
38

EXIT 207B
Santa Fe Dr
TO 85 26
Alameda Ave
1/2 MILE

INSTALL NEW
GUIDE SIGN
39

OHIO AVE

BROADWAY



MAPKEY

0' 100' 200' 400'

Print Date: 10/20/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_GuideSignPlan5.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:200 Vert. Scale: As Noted					Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE GUIDE SIGN PLAN			Project No./Code
Designer: LCL	Structure Numbers		BR 0252-407
Detailer: SYS			17783
Sheet Subset: TRAFFIC	Subset Sheets: GS-5 of 5		Sheet Number 413

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10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

RTD Light Rail Station
(Broadway Park-n-Ride)

RTD LIGHT RAIL TRACKS

CONSOLIDATED RAILROAD

EXIT 207A
Broadway ⇗

EXISTING
(TO REMAIN)

OFF RAMP TO BROADWAY

SB I-25

NB I-25

0' 50' 100' 200'

615+00

300+00

CHANNELIZING GORE LINE
WHITE, 11" WIDE

EDGE LINE
WHITE, 4" WIDE

EDGE LINE
YELLOW, 4" WIDE

RAMP 3

MATCHLINE I-25 STA. 619+00

REMOVE AND
REPLACE WITH
RIGHT LANE
MUST
EXIT
(51)
48R3-7AR

(50)

REMOVE EXISTING
EDGE LINE

LANE DROP LINE
WHITE, 11" WIDE

EDGE LINE
YELLOW, 4" WIDE

EDGE LINE
WHITE, 4" WIDE

LANE LINE
WHITE, 7" WIDE
(TYPICAL)

EXIT 207B
Santa Fe Dr
TO
C 26
Alameda Ave
EXIT ONLY

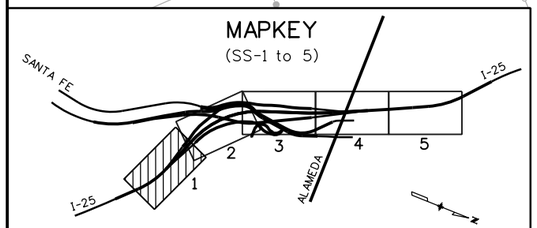
REMOVE EXISTING SIGN AND O.H. LIGHTS
REPLACE WITH NEW GUIDE SIGN PANEL
(40) (41)

EXIT
25
M.P.H.
48W13-2
(52)

RIGHT LANE
MUST
EXIT
REMOVE
(INCLUDING 750 FT
SUPPLEMENTAL PANEL)
(53)

RIGHT LANE
MUST
EXIT
48R3-7AR
(WALL MOUNTED)
(54)

MAPKEY
(SS-1 to 5)



Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_I-25StripingPlan1.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25
SIGNING AND STRIPING PLAN

Designer:	SPG/LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-1 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 414

Stan 7:48:44 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_I-25StripingPlan1.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

EXIT 206 | EXIT 207A
Washington St
Emerson St
½ MILE
Broadway
NEXT RIGHT

REMOVE EXISTING SIGN AND STRUCTURE
INSTALL NEW GUIDE SIGNS
AND SIGN STRUCTURE
(9) (10)

NEXT EXIT
VMS
RESET
(57)

REMOVE
(56)

48W4-3R
(55)

REMOVE
(58)

REMOVE
(59)

MATCHLINE
STA 307+00
(SHEET SS-8)

EDGE LINE
YELLOW, 4" WIDE

LANE LINE
WHITE, 7" WIDE
(TYPICAL)

EDGE LINE
WHITE, 4" WIDE

EDGE LINE
WHITE, 4" WIDE

EDGE LINE
YELLOW, 4" WIDE

LANE LINE
WHITE, 7" WIDE
(TYPICAL)

CHANNELIZING
GORE LINE
WHITE, 11" WIDE

RAMP 3

SB I-25

NB I-25

RAMP 2

SB I-25
(Existing)

NB I-25
(Existing)

205+00

206+00

207+00

210+00

630+00

MATCHLINE I-25 STA. 619+00

MATCHLINE I-25 STA. 632+00

MATCHLINE
STA. 207+00
(SHEET SS-10)

EDGE LINE
WHITE, 4" WIDE

CHANNELIZING
GORE LINE
WHITE, 11" WIDE

EDGE LINE
WHITE, 4" WIDE

EDGE LINE
YELLOW, 4" WIDE

EXIT
207B

REMOVE AND REPLACE
WITH NEW E5-1a
(13) (14)

EXIT 207B
Santa Fe Dr
TO 85 26
Alameda Ave
EXIT ONLY

REMOVE EXISTING SIGN STRUCTURE
INSTALL NEW GUIDE SIGN
AND CANTILEVER
(11) (12)

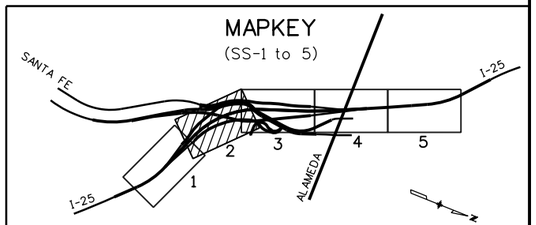
WRONG WAY
REMOVE
(61)

Santa Fe Dr
25 NORTH
Ft Collins
REMOVE
(15)

EXIT
25
M.P.H.
48W13-2
(60)

0' 50' 100' 200'

MAPKEY
(SS-1 to 5)



Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_I-25StripingPlan2.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
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Void:

I-25/SANTA FE INTERCHANGE
I-25
SIGNING AND STRIPING PLAN

Designer:	SPG/LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets: SS-2 of 12	

Project No./Code
BR 0252-407
17783
Sheet Number 415

Stan 7:48:50 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_I-25StripingPlan2.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

South Platte River

SPEED LIMIT 45
REMOVE (65) (66)

EXIT 207B
REMOVE (16)

405+00

MATCHLINE STA. 407+00 (SHEET SS-8)

635+00

EDGE LINE WHITE, 4" WIDE

LANE LINE WHITE, 7" WIDE (TYPICAL)

MATCHLINE I-25 STA. 632+00

SPEED LIMIT 45 M.P.H.
48R2-1 (67)

EXIT 45 M.P.H.
REMOVE (68)

LANE LINE WHITE, 4" WIDE (RAMP 4)

RAMP 4

EDGE LINE YELLOW, 4" WIDE

EDGE LINE WHITE, 4" WIDE

EXIT 207B
85 SOUTH
Santa Fe Dr
EXIT ONLY

RIGHT 2 LANES MUST EXIT

REMOVE SIGNS AND CANTILEVER (17)

410+00

640+00

EDGE LINE YELLOW, 4" WIDE

SB I-25

NB I-25

130+00

Santa Fe Dr (Existing)

NB I-25 (Existing)

415+00

135+00

EXIT 207B
E5-1a (18)

MATCHLINE I-25 STA. 645+00

LANE MERGE ARROW WHITE, 58SF (TYP.)

RAMP 1

85 SOUTH Santa Fe Dr
25 SOUTH Colo Spgs
REMOVE (23)

MATCHLINE STA 126+00 (SHEET SS-8)

LANE LINE WHITE, 7" WIDE

EDGE LINE YELLOW, 4" WIDE

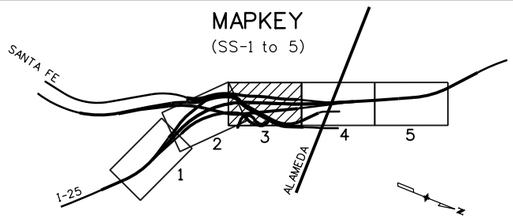
EDGE LINE WHITE, 4" WIDE

CHANNELIZING GORE LINE WHITE, 11" WIDE

48W4-2R (69)

REMOVE AND REPLACE WITH NEW 48W4-1R (70) (71)

MAPKEY
(SS-1 to 5)



0' 50' 100' 200'

Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_I-25StripingPlan3.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25
SIGNING AND STRIPING PLAN

Designer:	SPG/LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-3 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 416

Stan 7:49:00 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_I-25StripingPlan3.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

EXIT 45 M.P.H.
48W13-2
(75)

EXIT 207A
Broadway
1/2 MILE

EXIT 207B
85
Santa Fe Dr
EXIT ONLY

SPECIAL - STA. 645+51
(19)

South Platte River

ALAMEDA AVE

MILE 208
EXISTING (TO REMAIN)

SPEED LIMIT 55 MINIMUM 40
EXISTING (TO REMAIN)

SPEED LIMIT 55 MINIMUM 40
EXISTING (TO REMAIN)

EDGE LINE
WHITE, 4" WIDE

CHANNELIZING LINES
WHITE, 11" WIDE

EDGE LINE
YELLOW, 4" WIDE

650+00

655+00

LANE DROP LINE
WHITE, 11" WIDE

MATCHLINE I-25 STA. 645+00

RAMP 4

SB I-25

NB I-25

RAMP 1

MATCHLINE I-25 STA. 658+00

LANE LINE
WHITE, 7" WIDE
(TYPICAL)

CHANNELIZING GORE LINE
WHITE, 11" WIDE

EDGE LINE
WHITE, 4" WIDE

KALAMATH ST

EXITS 209A-B
6 WEST
6th Avenue
1 MILE
EXISTING (TO REMAIN)

W. BYERS AVE

MILE 208
EXISTING (TO REMAIN)

Santa Fe Dr	1/4
Broadway	3/4
Washington St	1 1/4

(30)

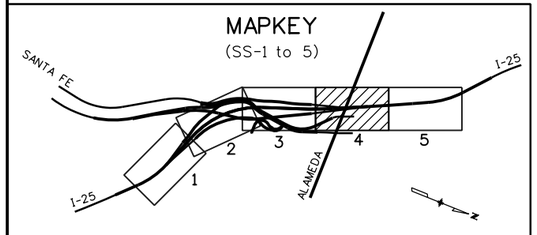
REPLACE EXISTING PANEL WITH

Broadway	3/4
Washington St	1 1/4
Emerson St	

(31)

0' 50' 100' 200'

MAPKEY
(SS-1 to 5)



Print Date: 10/20/2010	
File Name: 16311TRAF_PH2_I-25StripingPlan4.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25
SIGNING AND STRIPING PLAN

Designer:	SPG/LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-4 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 417

Stan 7:49:07 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_I-25StripingPlan4.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

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

MATCHLINE I-25 STA. 658+00

SB I-25

NB I-25

KALAMATH ST

665+00

670+00

RIGHT LANE MUST EXIT
REMOVE
(76)

60R3-8R
1000 FT
SPECIAL 60X18
(77)

EDGE LINE
YELLOW, 4" WIDE

EXIT 208
EXISTING
(TO REMAIN)

EXIT 45 M.P.H.
EXISTING
(TO REMAIN)

CHANNELIZING GORE LINES
WHITE, 11" WIDE

EXISTING VMS
(TO REMAIN)

RIGHT LANE MUST EXIT
REMOVE
(78)

EXIT 207B
85 SOUTH
Santa Fe Drive
1/4 MILE
EXIT ONLY

EXIT 208
26
Alameda Ave

INSTALL NEW GUIDE SIGN PANELS
(32)

EXIT 207B
85 SOUTH
Santa Fe Drive
1/2 MILE
EXIT ONLY

EXIT 208
26
Alameda Avenue
EXIT ONLY

REMOVE EXISTING PANELS
(33)

REMOVE EXISTING LANE DROP LINE (LENGTH = 1/4 MILE) AND REPLACE WITH LANE LINE WHITE, 7" WIDE

EDGE LINE
WHITE, 4" WIDE
(MATCH EXISTING)

LANE LINE (TYP.)
WHITE, 7" WIDE
(MATCH EXISTING)

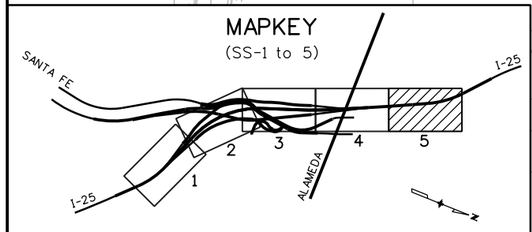
EDGE LINE
YELLOW, 4" WIDE

RIGHT LANE MUST EXIT
REMOVE
(79)

6th Ave	3/4
8th Ave	1
Colfax Ave	1 1/2

EXISTING
(TO REMAIN)

MAPKEY
(SS-1 to 5)



0' 50' 100' 200'

Print Date: 10/20/2010	
File Name: 16311TRAF_PH2_I-25StripingPlan5.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25
SIGNING AND STRIPING PLAN

Designer:	SPG/LCL	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-5 of 12

Project No./Code	
BR 0252-407	
17783	
Sheet Number	418

Stan 7:49:15 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_I-25StripingPlan5.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

W. MISSISSIPPI AVE

W. TENNESSEE AVE

Vanderbilt Park

SB SANTA FE

NB SANTA FE

South Platte River

EXISTING HOV SYMBOL

HOV LANE
ENDS 1/2 MILE
36R3-12b
(86)

SPEED LIMIT 45
36R2-1
(85)

48R3-8R
ONLY
1000 FT
SPECIAL 48X12
(87)

EXISTING HOV SYMBOL

EXPRESS LANE
2 OR MORE PERSONS PER VEHICLE ONLY WHEN GREEN

EXISTING (TO REMAIN)

SPEED LIMIT 35
48W3-5
(88)

HOV SYMBOL WHITE

25 SOUTH
Colorado Springs
RIGHT 1/2 MILE

25 NORTH
Fort Collins
1/4 MILE
EXIT ONLY

SPECIAL - STA. 698+80
(1)

25 SOUTH
Colo Spgs
1/4 MILE

REMOVE
(2)

CHANNELIZING LINE WHITE, 8" WIDE

LANE DROP LINE WHITE, 8" WIDE

LANE LINE WHITE, 4" WIDE

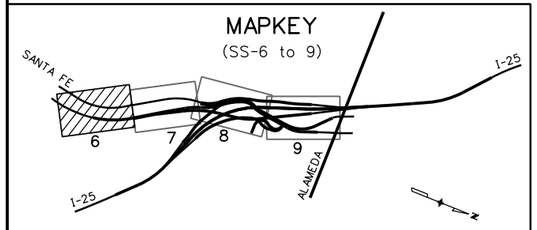
705+00

MATCHLINE NB SANTA FE STA. 708+00

BM

BM

MAPKEY
(SS-6 to 9)



0' 50' 100' 200'

Print Date: 10/20/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE DRIVE SIGNING AND STRIPING PLAN	Project No./Code
File Name: 16311TRAF_PH2_SantaFeStripingPlan1.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted				Region 6 RLB	Revised:	Designer: LCL / Structure Numbers	17783
Unit Information Unit Leader Initials					Void:	Detailer: LCL / Sheet Subset: TRAFFIC / Subset Sheets: SS-6 of 12	Sheet Number 419
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							

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10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

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

Vanderbilt Park

SB SANTA FE

South Platte River

NB SANTA FE

MATCHLINE NB SANTA FE STA. 708+00

MATCHLINE NB SANTA FE STA. 721+00

105+00

710+00

715+00

720+00

110+00

SOUTH 25 Colorado Springs NEXT RIGHT

SPECIAL - STA. 712+00

8

NORTH 25 Fort Collins EXIT ONLY

A) 30M3-3i SOUTH INTERSTATE 25

B) 36M1-1A

C) 21M5-1Ri

D) 30M3-1i NORTH INTERSTATE 25

E) 36M1-1A

F) 21M6-2Ri

99

SPEED LIMIT 35

36R2-1

98

48W3-3

100

SOUTH 25 Colo Spgs

SPECIAL-STA. 719+10

3

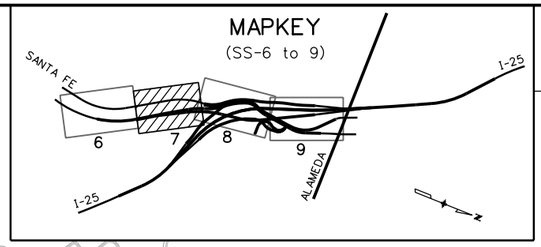
RIGHT LANE MUST TURN RIGHT

30R3-7R

101

MAPKEY

(SS-6 to 9)



NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

CHANNELIZING LINE WHITE, 8" WIDE

HOV SYMBOL WHITE (TYPICAL)

LANE LINE WHITE, 4" WIDE (TYPICAL)

CHANNELIZING GORE LINES WHITE, 11" WIDE

LANE DROP LINE WHITE, 8" WIDE

EDGE LINE WHITE, 4" WIDE

EDGE LINE YELLOW, 4" WIDE

RIGHT LANE MUST EXIT

48R3-7AR

89

SOUTH 25 Colo Spgs

REMOVE

5

OHIO AVE (Closed)

ONLY

48R3-8R

90

RAMP 45 M.P.H.

48W13-3

91

RAMP 20 M.P.H.

REMOVE

92 93

NORTH 25 Ft Collins NEXT RIGHT

REMOVE

6

RAMP-1

REMOVE

94 95 96

RIGHT LANE MUST EXIT

REMOVE

97

0' 50' 100' 200'

Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_SantaFeStripingPlan2.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
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2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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Revised:
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I-25/SANTA FE INTERCHANGE
SANTA FE DRIVE
SIGNING AND STRIPING PLAN

Designer:	LCL	Structure Numbers	
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-7 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 420

Stan 7:49:33 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_SantaFeStripingPlan2.dgn
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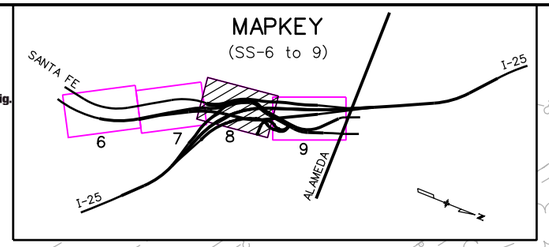
Know what's below. Call before you dig.



NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

South Platte River

A) 48W1-1R
B) 24W13-1
25 M.P.H.
MOUNT ON FLASHING BEACON ASSEMBLY (REFER TO SIGNAL PLAN TS-4)
110

48W4-3R
109

A) 24M3-3i SOUTH INTERSTATE 25
B) 24M1-1A
C) 21M6-1i
108

CHANNELIZING LINE WHITE, 8" WIDE (TYPICAL)

EDGE LINE WHITE, 4" WIDE

30W1-8L
123

48W4-6L
111

EDGE LINE YELLOW, 4" WIDE

MATCHLINE STA 407+00 (SHEET SS-3)

R-1
LEFT LANE MUST TURN LEFT
30R3-71
112

CHANNELIZING GORE LINE WHITE, 8" WIDE

400+00
405+00
410+00
415+00

RAMP 4

SB SANTA FE

NB SANTA FE

EDGE LINE YELLOW, 4" WIDE

EDGE LINE WHITE, 4" WIDE

LANE LINE WHITE, 4" WIDE (TYPICAL)

HOV LANE
25 NORTH
Ft Collins
LEFT 1/4 MILE
REMOVE
4

REMOVE
105 106

24R4-7
107

395+00
725+00
310+00

EDGE LINE YELLOW, 4" WIDE

25 NORTH
Ft Collins
REMOVE
7

STOP LINE WHITE, 24" WIDE (TYPICAL)

DOTTED LINE WHITE, 8" WIDE

R-1
24R4-7
124

Santa Fe Drive (Existing)

120+00
115+00

SPEED LIMIT 45
REMOVE
122

MATCHLINE SB SANTA FE STA. 818+62.17

MATCHLINE NB SANTA FE STA. 735+00

YIELD SYMBOLS WHITE, 24"X36"

30R3-4
116 102

ONLY
30R3-5L
117

MATCHLINE STA 126+00 (SHEET SS-3)

MATCHLINE NB SANTA FE STA. 721+00

RAMP 1

RAMP 3

EDGE LINE YELLOW, 4" WIDE

LANE LINE WHITE, 7" WIDE

EDGE LINE WHITE, 4" WIDE

YIELD
36R1-2
114

A) 24R9-3a
B) 24R5-6
113

HOV LANE ENDS
36R3-12a
115 A

DO NOT ENTER
30R5-1
115 B

REMOVE FLASHING BEACON AND SIGN
118 119

SPEED LIMIT 35
REMOVE
121 122

REMOVE
120

MATCHLINE STA 307+00 (SHEET SS-2)

N

0' 50' 100' 200'

Print Date: 11/18/2010			
File Name: 16311TRAF_PH2_SantaFeStripingPlan3.dgn			
Horiz. Scale: 1:100	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-1

Sheet Revisions

Date:	Comments	Init.
12-3-10	Median Signs & Striping	LCL

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed

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I-25/SANTA FE INTERCHANGE
SANTA FE DRIVE
SIGNING AND STRIPING PLAN

Designer:	LCL	Structure Numbers	
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-8 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 421 A

larry 10:00:13 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_SantaFeStripingPlan3.dgn
11/18/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

0' 50' 100' 200'

REMOVE (125)

RIGHT LANE ENDS
500 FEET
REMOVE (127)

A) 48W1-1L
25 M.P.H. B) 24W13-1
MOUNT ON FLASHING BEACON ASSEMBLY (REFER TO SIGNAL PLAN TS-1) (128)

SOUTH 25 Colo Spgs
REMOVE (26)

SOUTH 25 LEFT LANE
SPECIAL (27)

48W1-7 (129)

REMOVE (130)

RAMP 15 M.P.H.
REMOVE (131)

RIGHT LANE MUST TURN RIGHT
REMOVE (132) (133)

SOUTH 25 Colo Spgs 1/4 MILE | NORTH 25 Ft Collins EXIT ONLY
REMOVE EXISTING PANELS 28A & 28B AND REPLACE WITH NEW GUIDE SIGNS 29A & 29B

SOUTH 25 Colo Spgs 1/2 MILE | 85 Santa Fe Dr
SPECIAL (28) (29)

SOUTH ADD M3-3i PANEL (134)

TO SOUTH INTERSTATE COLORADO 25 | 85
EXISTING ROUTE ASSEMBLY LOCATED IN SE CORNER OF ALAMEDA/KALAMATH (TO REMAIN)

SPEED LIMIT 35
EXISTING (TO REMAIN)

MATCHLINE SB SANTA FE STA. 818+62.17

MATCHLINE NB SANTA FE STA. 735+00

820+00

825+00

745+00

NB I-25 (Existing)

SB SANTA FE

NB SANTA FE

RAMP 2

ALAMEDA AVE

LANE DROP LINE WHITE, 8" WIDE

CHANNELIZING LINE WHITE, 8" WIDE

EDGE LINE YELLOW, 4" WIDE

LEFT LANE MUST TURN LEFT
1000 FT
30R3-7L
SPECIAL 30X10 (126)

EDGE LINE WHITE, 4" WIDE

CHANNELIZING LINES WHITE, 8" WIDE

LANE LINE WHITE, 4" WIDE (TYPICAL)

EDGE LINE YELLOW, 4" WIDE

EDGE LINE WHITE, 4" WIDE

LEFT LANE MUST TURN LEFT
EXISTING (TO REMAIN)

SPEED LIMIT 30
EXISTING (TO REMAIN)

TO NORTH INTERSTATE COLORADO 25
24M4-5i
24M3-1i
24M1-1A
21M6-3i (135)

LEFT LANE MUST TURN LEFT
EXISTING (TO REMAIN)

BIKE XING
EXISTING (TO REMAIN)

RIGHT LANE MUST TURN RIGHT
EXISTING (TO REMAIN)

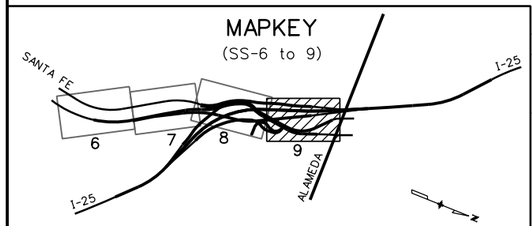
SOUTH INTERSTATE COLORADO 25
REMOVE (136)

LEFT LANE MUST TURN LEFT
EXISTING (TO REMAIN)

TO NORTH INTERSTATE COLORADO 25
24M4-5i
24M3-1i
24M1-1A
21M5-1Li (137)

REFER TO SS-11 FOR INTERSECTION SIGNING AND STRIPING DETAILS

MAPKEY
(SS-6 to 9)



Print Date: 10/20/2010			
File Name: 16311TRAF_PH2_SantaFeStripingPlan4.dgn			
Horiz. Scale: 1:100	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE SANTA FE DRIVE SIGNING AND STRIPING PLAN

Designer:	LCL	Structure Numbers	
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	SS-9 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 422

Stan 7:49:48 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_SantaFeStripingPlan4.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

A) FRONT
B) BACK
SPEED LIMIT 25
36R2-1
145 146
WRONG WAY
36R5-1a

85 Santa Fe Drive
SPECIAL
42

ONE WAY
36R6-1L
ONE WAY
36R6-1R
DO NOT ENTER
30R5-1
148 149

ONE WAY
36R6-1L
ONE WAY
36R6-1R
BACK
DO NOT ENTER
30R5-1
FRONT
30R3-1
151

ONE WAY
54R6-1R
166

ONE WAY
36R6-1L
ONE WAY
36R6-1R
DO NOT ENTER
30R5-1
153

ONLY
30R3-5R
152

SPEED LIMIT 40
REMOVE
144

REMOVE
143

STOP
REMOVE
142

NB I-25

REMOVE
147

30R3-2
150

SB SANTA FE

NB SANTA FE

REMOVE
164 165

210+00

RAMP 2

215+00

DOUBLE CENTERLINE YELLOW, 4" WIDE (TYPICAL)

EDGE LINE YELLOW, 4" WIDE

EDGE LINE WHITE, 4" WIDE

RIGHT LANE MUST TURN RIGHT
30R3-7R
157

RIGHT LANE MUST TURN RIGHT
30R3-7R
161

30R3-2
168

48W3-3
MOUNT ON FLASHING BEACON ASSEMBLY
140 141

MATCHLINE STA 207+00 (SHEET SS-2)

REMOVE
154

CENTER AVE

REMOVE
155 156

STOP
36R1-1
159

STOP
REMOVE
160

ONLY ONLY ONLY
48R3-8 (SPECIAL)
162 163

REFER TO SHEET SS-11 FOR INTERSECTION SIGNING AND STRIPING DETAILS

To I-25 Alameda Ave
SPECIAL
24

ALAMEDA AVENUE
85 SOUTH
SANTA FE DR
REMOVE
25

STOP
REMOVE R1-1 PANEL (STREET NAME SIGNS TO REMAIN)
167

RIGHT LANE MUST TURN RIGHT
REMOVE AND REPLACE WITH NEW R3-7R
158

Frontage Rd
TO Center Ave Cherokee St
SPECIAL
43

CHANNELIZING LINE, WHITE 8" WIDE

Home Depot Parking Lot

MAPKEY
(SS-10 to 12)
SANTA FE
I-25
10
12
I-25
ALAMEDA

0' 50' 100' 200'

Print Date: 10/20/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_HomeDepotStripingPlan1.dgn	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE
RAMP 2 (HOME DEPOT ACCESS)
SIGNING AND STRIPING PLAN

Designer: LCL	Structure Numbers		Project No./Code: BR 0252-407
Detailer: LCL			17783
Sheet Subset: TRAFFIC	Subset Sheets: SS-10 of 12		Sheet Number 423

Stan 7:49:57 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_HomeDepotStripingPlan1.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

0' 25' 50' 100'

SPAN WIRE MOUNTED SIGNS

ONLY 30R3-5 (170) (171)

ONLY 30R3-5R (172) (173)

ONLY REMOVE (174)

24R4-7 (175)

REMOVE (176)

ONLY REMOVE (177)

NORTH INTERSTATE 25 REMOVE ROUTE SIGNS AND REPLACE w/ 24R4-7 (178) (179)

REMOVE (180)

EXISTING STREET NAME AND ADDRESS PANELS TO REMAIN (NW AND SE SIGNAL POLES)

(171) (172) (173)

(181)

REMOVE EXISTING ROUTE SIGN ASSEMBLY

SB SANTA FE

NB SANTA FE

RIGHT LANE MUST TURN RIGHT EXISTING (TO REMAIN)

(170)

EXISTING (TO REMAIN)

(174)

STOP LINE WHITE, 24" WIDE (TYPICAL)

CHANNELIZING LINES WHITE, 11" WIDE

LANE LINE WHITE, 4" WIDE (TYPICAL)

EDGE LINE WHITE, 4" WIDE

HOME DEPOT ACCESS

DO NOT ENTER REMOVE (191)

YIELD EXISTING (TO REMAIN)

CHANNELIZING LINES WHITE, 11" WIDE

DOTTED LANE LINE WHITE, 4" WIDE

215+00

RAMP 2

DOTTED LINE WHITE, 8" WIDE

YIELD REMOVE (189) (190)

EXISTING TO REMAIN (ALL 4 POLES)

DOUBLE CENTERLINE YELLOW, 4" WIDE

DOTTED CHANNELIZING LINE WHITE, 8" WIDE

DOUBLE DOTTED CENTERLINE YELLOW, 4" WIDE

EDGE LINE WHITE, 4" WIDE

EDGE LINE YELLOW, 4" WIDE

Home Depot Parking Lot

24R4-7 (182)

ONLY REMOVE (183) (184)

SOUTH NORTH 85 85 REMOVE (185)

REMOVE (186)

SOUTH NORTH INTERSTATE 25 INTERSTATE 25 REMOVE (187)

SOUTH 85 SOUTH INTERSTATE 25 NORTH INTERSTATE 25

24M3-3 24M1-4 21M6-1 | 24M3-3i 24M1-1A 21M6-1i | 24M3-1i 24M1-1A 21M6-1i (188)

Print Date: 10/20/2010	Sheet Revisions		
File Name: 16311TRAF_PH2_HomeDepotStripingPlan2.dgn	Date:	Comments	Init.
Horiz. Scale: 1:50 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
RAMP 2 (HOME DEPOT ACCESS)
SIGNING AND STRIPING PLAN

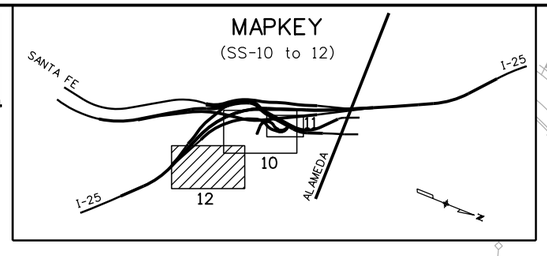
Designer: SPG/LCL
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: SS-11 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 424

Stan 7:50:04 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_HomeDepotStripingPlan2.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

MAPKEY
(SS-10 to 12)



NOTE:
REFER TO DELINEATOR PLACEMENT TABLE ON SHEET DT-1.

FRONTAGE RD (One Way)

EDGE LINE, WHITE, 4" WIDE (4' OFFSET FROM HCL)

EDGE LINE, YELLOW, 4" WIDE (10' OFFSET FROM HCL, MINIMUM) STA. 15+22 TO 21+62

SB I-25

NB I-25

Existing Driveway

US Welding

CENTER AVE

STOP (199)

REMOVE R1-1 PANEL AND REPLACE WITH

ONE WAY
36R6-1L

ONE WAY
36R6-1R
(200)

ONE WAY
36R6-1L

24R3-1
(198)

Home Depot

Existing Driveway

ONE WAY
36R6-1L

ONE WAY
36R6-1R

DO NOT ENTER
30R5-1
(195) (196)

ONE WAY
36R6-1L

24R3-1
(197)

Stor-All Storage

EDGE LINE, YELLOW, 4" WIDE (14' OFFSET FROM HCL, MINIMUM) STA. 10+00 TO 13+90

CHEROKEE ST

N

0' 50' 100' 200'

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_HomeDepotStripingPlan3.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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Void:

I-25/SANTA FE INTERCHANGE
FRONTAGE ROAD
SIGNING AND STRIPING PLAN

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: SS-12 of 12

Project No./Code
BR 0252-407
17783
Sheet Number 425

Stan 7:50:10 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_HomeDepotStripingPlan3.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

TABULATION OF TRAFFIC SIGNAL AND ITS ITEMS

ITEM NO.	ITEM DESCRIPTION	UNITS	Ramp 2 TS-2	Home Depot TS-3	Ramp 3 TS-4	ITS Devices TS-5	PROJECT TOTAL	REMARKS
202-00831	REMOVAL OF TRAFFIC SIGNAL HEAD	EACH	7	-	-	-	7	RETURN TO CITY OF DENVER TRAFFIC
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	EACH	-	-	-	2	2	RETURN TO CDOT R6 TRAFFIC
210-00473	RESET TV CAMERAS	EACH	-	-	-	1	1	CDOT CCTV CAMERA EQUIPMENT
210-00848	RESET TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	-	-	-	1	1	ITS CONTROLLER CABINET
210-00910	RESET TRAFFIC COUNTER (PERMANENT)	EACH	-	-	-	4	4	ATR AND TRAVEL TIME DETECTION EQUIPMENT
503-00024	DRILLED CAISSON (24 INCH)	LF	-	-	-	7	7	CDOT LIGHT STANDARD M-613-1 FOOTING
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	200	790	490	2110	3590	
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	-	50	40	3200	3290	
613-07000	PULL BOX (SPECIAL)	EACH	-	2	1		3	WATER VALVE TYPE
613-07026	PULL BOX (16"X24"X12")	EACH	2	5	2	4	13	ELECTRIC
613-07023	PULL BOX (24"X36"X24")	EACH	-	2	2	-	4	TRAFFIC
613-07039	PULL BOX (30"X48"X18") DEEP	EACH	-	-	-	7	7	CDOT ITS VAULT
613-32300	LIGHT STANDARD STEEL (30 FOOT)	EACH	-	-	-	1	1	INCLUDES 15' LUMINAIRE ARM
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	3	12	6	-	21	LED TYPE
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12-12)	EACH	1	-	-	-	1	LED TYPE
614-72830	COMMUNICATION CABINET	EACH	-	-	-	1	1	CDOT ITS CABINET
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	-	1	1	-	2	CITY OF DENVER NEMA STANDARDS
614-72875	LOOP DETECTOR WIRE	LF	-	1095	365	-	1460	365 LF PER DETECTOR
614-85312	TRAFFIC SIGNAL SPAN WIRE POLE (12 INCH)	EACH	-	1	-	-	2	CDOT S-614-40 STD. W/ CITY OF DENVER FINISH
614-85362	TRAFFIC SIGNAL-LIGHT SPAN WIRE POLE (12 INCH)	EACH	-	3	-	-	3	CDOT S-614-40 STD. W/ CITY OF DENVER FINISH
614-85366	TRAFFIC SIGNAL-LIGHT SPAN WIRE POLE (16 INCH)	EACH	-	-	2	-	2	CDOT S-614-40 STD. W/ CITY OF DENVER FINISH
614-86238	TRAFFIC SIGNAL CONTROLLER (SOLID STATE) (FULL-ACTUATED) (8 PHASE)	EACH	-	1	1	-	2	CITY OF DENVER NEMA STANDARDS
614-86800	UNINTERRUPTED POWER SUPPLY	EACH	-	1	1	-	2	CITY OF DENVER NEMA STANDARDS
614-87333	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE)	EACH	-	-	-	1	1	CDOT STANDARDS
614-87412	FIBER OPTIC CABLE (SINGLE MODE) (12 STRANDS)	LF	-	-	-	475	475	
614-87496	FIBER OPTIC CABLE (SINGLE MODE) (96 STRANDS)	LF	-	-	-	2100	2100	

GENERAL NOTES

1. CITY AND COUNTY OF DENVER STANDARD DRAWINGS (16.0 TO 16.16) SHALL APPLY TO TO THE INTERIM TRAFFIC SIGNAL DESIGN REQUIREMENTS, EXCEPT FOR THE PROPOSED SPAN WIRE POLES (SEE NOTE 2). THE CONTRACTOR SHALL OBTAIN ANY REVISED CITY STANDARDS, PRIOR TO CONSTRUCTION.

2. TRAFFIC SIGNAL SPAN WIRE POLES SHALL CONFORM WITH CDOT STANDARD S-614-40. THE POLE FINISH SHALL BE DARK OLIVE GREEN (FEDERAL NO. 14056) PER CITY OF DENVER STANDARDS.

3. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND COUNTY OF DENVER (PAUL BOUNTRY, 720-913-4840) PRIOR TO SIGNAL CONSTRUCTION.

4. THE SIGNAL CONTRACTOR AND FIELD PERSONNEL MUST BE IMSA CERTIFIED IN TRAFFIC SIGNAL CONSTRUCTION.

5. CITY STANDARD SIGNAL CONTROLLERS (ECONOLITE ASC3/1000 OR APPROVED EQUIVALENT, WITH UPS) AND M1-STRETCH TYPE CABINETS SHALL BE FURNISHED AND INSTALLED.

6. TRAFFIC SIGNAL CABINET BASES SHALL BE CONCRETE (60"X24"X24") AND INCIDENTAL TO THE TRAFFIC SIGNAL CONTROLLER CABINET ITEM.

7. ALL TRAFFIC SIGNAL POLES AND PULL BOXES ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY AND MAY REQUIRE ADJUSTMENT DUE TO ANY UTILITY CONFLICTS. FINAL LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

8. ALL PULL BOXES SHALL BE FIBERGLASS REINFORCED POLYMER CONCRETE.

9. ALL DENVER TRAFFIC SIGNAL AND COMMUNICATION PULL BOXES SHALL BE TYPE D AND PAID FOR AS PULL BOX (24"X36"24"). THE WORD "TRAFFIC SIGNAL" OR "TRAFFIC COMM", RESPECTIVELY, SHALL BE PHYSICALLY IMPRESSED ON THE LID. ALL ASSOCIATED ELECTRICAL PULL BOXES SHALL BE TYPE A AND PAID FOR AS PULL BOX (16"X24"X12"). THE WORD "ELECTRIC" SHALL BE PHYSICALLY IMPRESSED ON THE LID. TRAFFIC, COMMUNICATION AND ELECTRIC WIRING SHALL BE INSTALLED WITHIN SEPARATE PULL BOXES PER CITY DETAIL 16.7.

10. ALL TRAFFIC SIGNAL REMOVALS SHALL BE SALVAGED AND RETURNED TO THE CITY AND COUNTY OF DENVER TRAFFIC FACILITY AT 5440 ROSYLN STREET, BLDG E (CONTACT CHRIS LILLIE, 720-865-4066). WORK SHALL BE INCIDENTAL TO THE CORRESPONDING REMOVAL ITEM.

11. LIGHT EMITTING DIODE (LED) TYPE SIGNAL INDICATIONS SHALL BE INSTALLED IN ALL RED, YELLOW, GREEN, WALK/DON'T WALK HAND SYMBOLS AND COUNTDOWN DISPLAYS. LED INDICATIONS SHALL BE INCIDENTAL TO THE TRAFFIC AND PEDESTRIAN SIGNAL FACE ITEMS. ALL SIGNAL HEADS SHALL BE DIE CAST ALUMINUM AND PAINTED DARK OLIVE GREEN PER FEDERAL SPECIFICATION 14056.

12. THE CONTRACTOR SHALL MAINTAIN ALL CDOT AND DENVER ITS COMMUNICATION CABLE CONNECTIONS THROUGHOUT CONSTRUCTION. INTERUPTION TO EXISTING FIBER COMMUNICIATIONS SHALL NOT EXCEED 48 HOURS OVER WEEKEND PERIODS (FRIDAY NIGHT TO SUNDAY NIGHT), WITHOUT PRIOR APPROVAL.

13. THE CONTRACTOR SHALL COORDINATE WITH CDOT (JILL SCOTT, 303-512-5805) FOR ALL REQUIRED FIBER ASSIGNMENTS AND DEVICE CONNECTIONS.

14. FIBER OPTIC CABLE SLACK SHALL BE COILED IN EACH OF THE ITS COMMUNICATION PULL BOXES IDENTIFIED IN THE PLANS, AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS.

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Signal_TAB01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

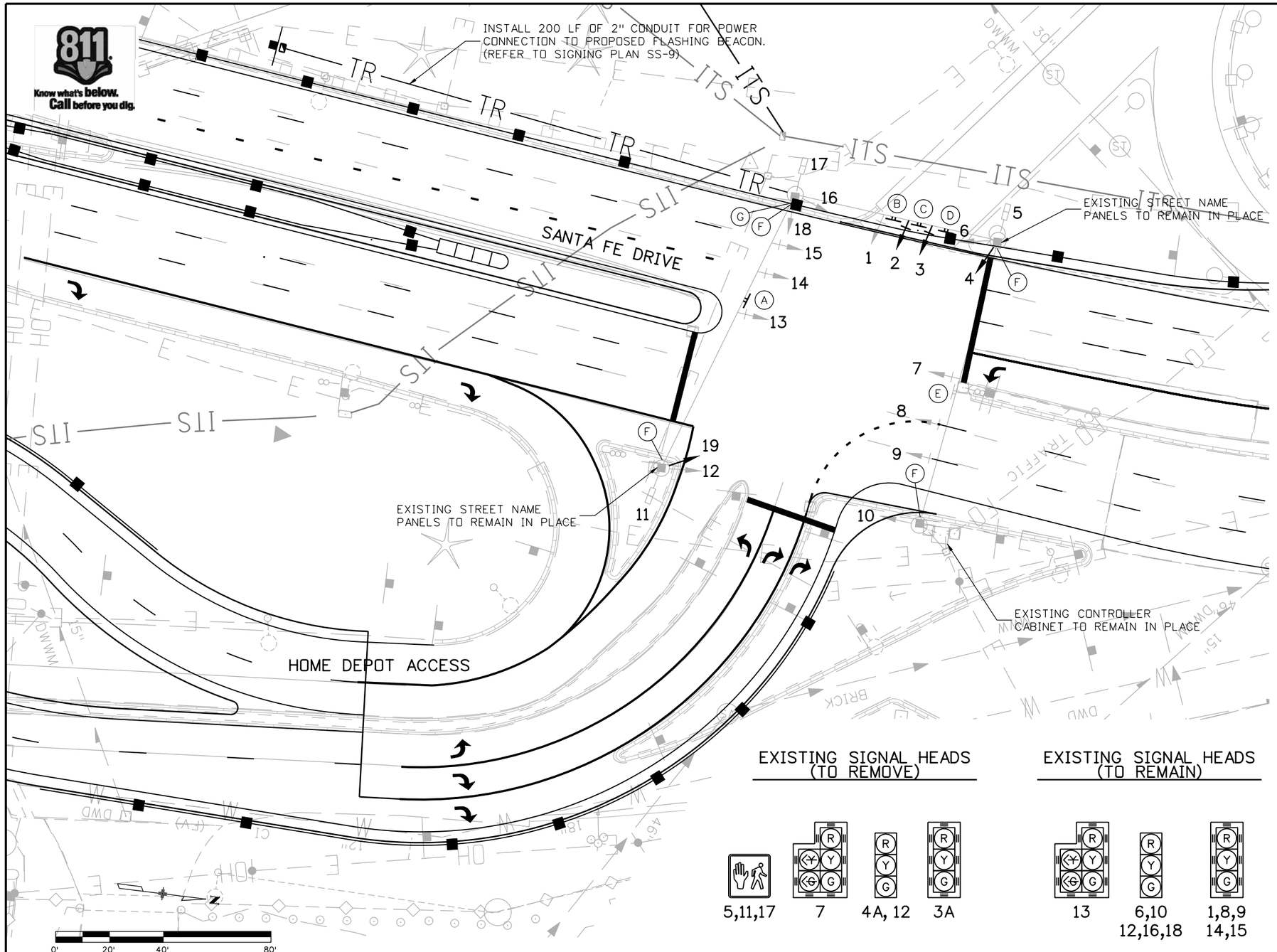
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TABULATION OF TRAFFIC SIGNAL AND ITS ITEMS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: TS-1 of 5

Project No./Code
BR 0252-407
17783
Sheet Number 426

Stan 7:50:14 AM K:\08276\16311\Phase 2\Traffic_ITS\Drawings\16311TRAF_PH2_Signal_TAB01.dgn
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl



LEGEND

EXISTING	DESCRIPTION
	TRAFFIC SIGNAL SPAN WIRE AND POLE
	TRAFFIC SIGNAL HEAD WITH BACKPLATE
	TRAFFIC SIGNAL HEAD
	PEDESTRIAN SIGNAL HEAD
	SPAN WIRE MOUNTED SIGN
	EXISTING LUMINAIRE

PROPOSED	
	TRAFFIC SIGNAL HEAD WITH BACKPLATE
	TRAFFIC SIGNAL HEAD
	SPAN WIRE MOUNTED SIGN

TRAFFIC SIGNS (Signal Pole/Span Wire Mounted)

R3-5L 30"X36" (A) (B)

R3-5R 30"X36" (C) (D)

EXISTING (REMOVE) (E)

EXISTING (TO REMAIN) (F)

EXISTING (REMOVE) (G)

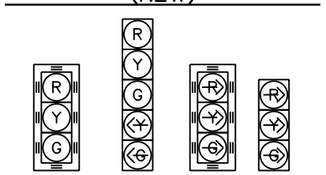
EXISTING SIGNAL HEADS (TO REMOVE)

5,11,17 | 7 | 4A, 12 | 3A

EXISTING SIGNAL HEADS (TO REMAIN)

13 | 6,10 12,16,18 | 1,8,9 14,15

PROPOSED SIGNAL HEADS (NEW)



2 | 19 | 3B | 4B

Print Date: 10/20/2010
File Name: 16311TRAF_PH2_Signal_Plan1.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
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I-25/SANTA FE INTERCHANGE TRAFFIC SIGNAL MODIFICATIONS (450 S. SANTA FE DR)

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: TS-2 of 6

Project No./Code
BR 0252-407
17783
Sheet Number 427

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

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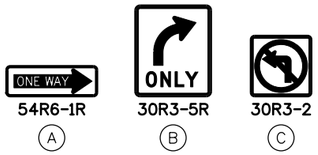
10/20/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

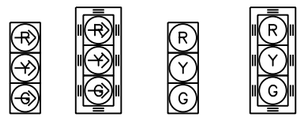
Know what's below. Call before you dig. 811

PROPOSED TRAFFIC SIGNS
(SPAN WIRE MOUNTED)



54R6-1R (A) | 30R3-5R (B) | 30R3-2 (C)

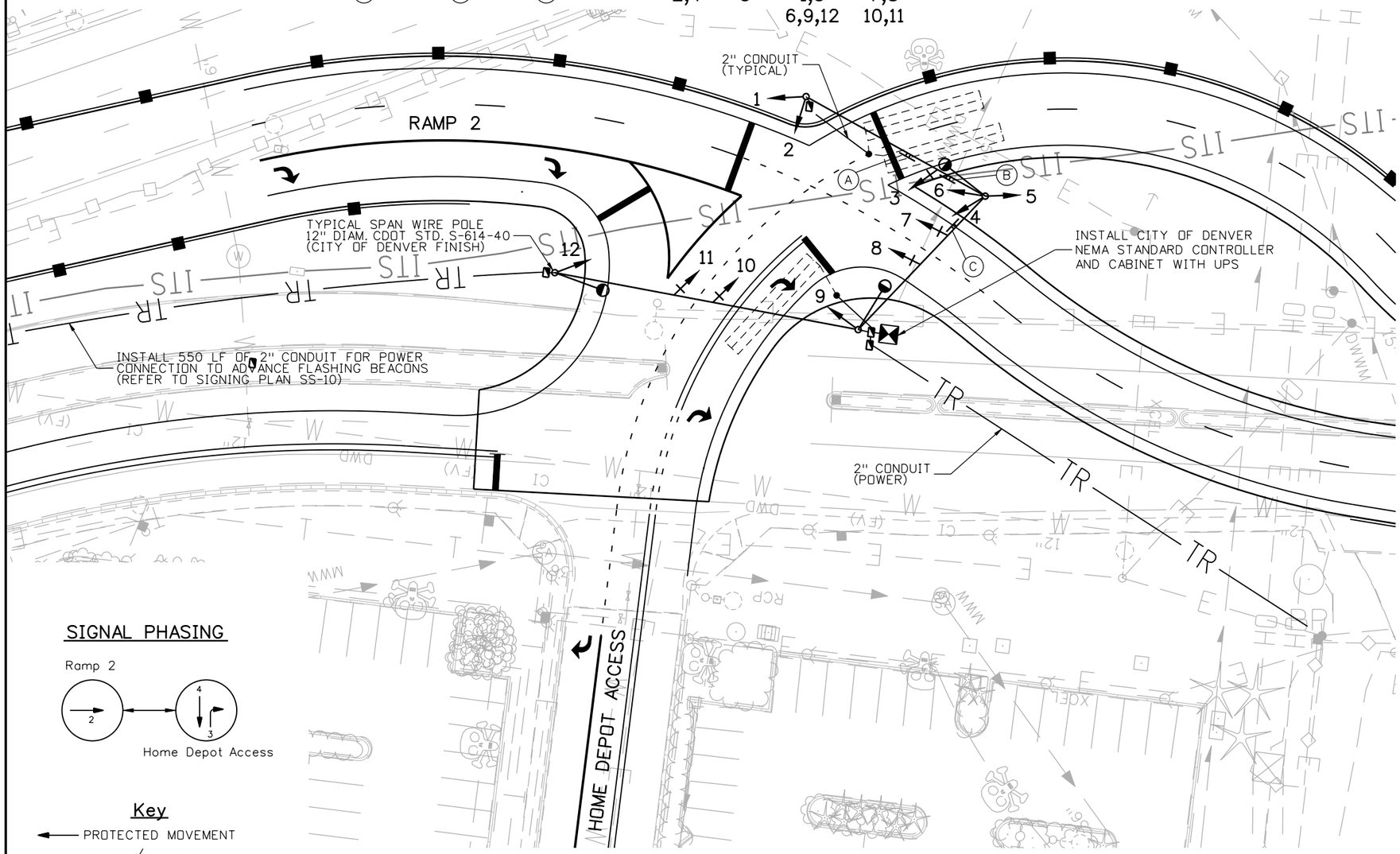
PROPOSED SIGNAL HEADS



2,4 | 3 | 1,5 6,9,12 | 7,8 10,11

LEGEND

PROPOSED	DESCRIPTION
	TRAFFIC SIGNAL SPAN WIRE AND POLE
	TRAFFIC SIGNAL HEAD WITH BACKPLATE
	TRAFFIC SIGNAL HEAD
	TRAFFIC SIGNAL CONTROLLER AND CABINET
	PULL BOX
	PULL BOX - SPECIAL
TR	CONDUIT - PVC SCHEDULE 40
	MAST ARM OR POLE MOUNTED SIGN
	LUMINAIRE - 400 WATT HPS
	VEHICLE LOOP DETECTOR (6'X 40')



SIGNAL PHASING

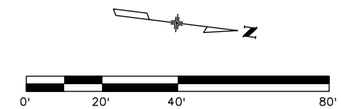
Ramp 2

Home Depot Access

Key

PROTECTED MOVEMENT

x PHASE ∅ NUMBER



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File Name: 16311TRAF_PH2_Signal_Plan2.dgn	Date:	Comments	Init.	2000 South Holly Street	No Revisions:
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Unit Information Unit Leader Initials				Phone: 303-972-9112 FAX: 303-972-9114	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				Region 6 RLB	

I-25/SANTA FE INTERCHANGE INTERIM TRAFFIC SIGNAL (RAMP 2)				Project No./Code
Designer: LCL	Structure Numbers			BR 0252-407
Detailer: LCL				17783
Sheet Subset: TRAFFIC	Subset Sheets: TS-3 of 6			Sheet Number 428

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Know what's below. Call before you dig.

SIGNAL PHASING

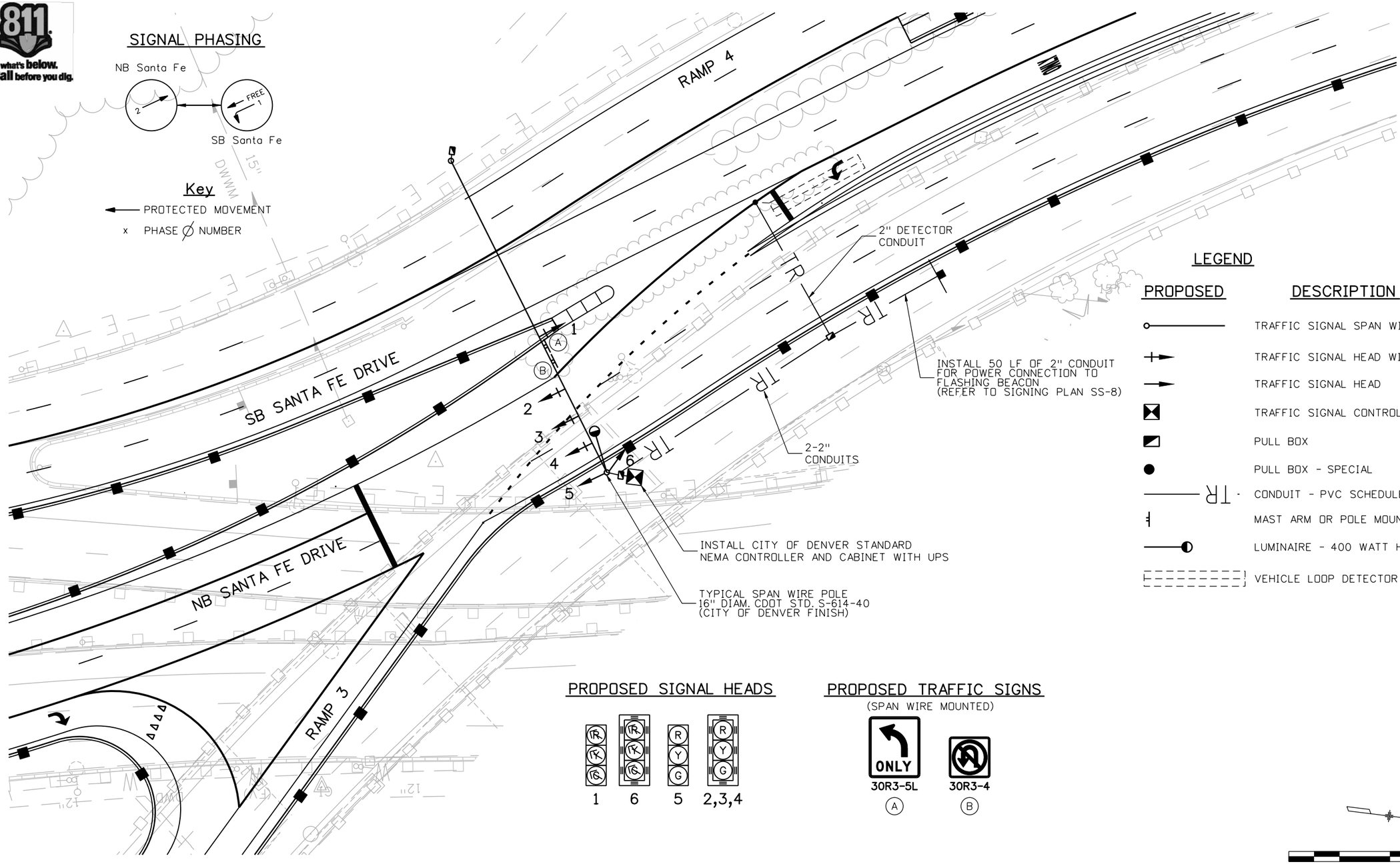
NB Santa Fe

SB Santa Fe

Key

PROTECTED MOVEMENT

x PHASE ∅ NUMBER



LEGEND

PROPOSED	DESCRIPTION
	TRAFFIC SIGNAL SPAN WIRE AND POLE
	TRAFFIC SIGNAL HEAD WITH BACKPLATE
	TRAFFIC SIGNAL HEAD
	TRAFFIC SIGNAL CONTROLLER AND CABINET
	PULL BOX
	PULL BOX - SPECIAL
TR	CONDUIT - PVC SCHEDULE 40
	MAST ARM OR POLE MOUNTED SIGN
	LUMINAIRE - 400 WATT HPS
	VEHICLE LOOP DETECTOR (6' X 40')

PROPOSED SIGNAL HEADS

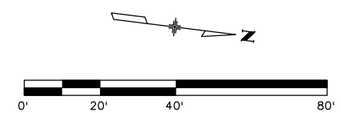
1 6 5 2,3,4

PROPOSED TRAFFIC SIGNS

(SPAN WIRE MOUNTED)

30R3-5L (A)

30R3-4 (B)



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Horiz. Scale: 1:40 Vert. Scale: As Noted				Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials				Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

I-25/SANTA FE INTERCHANGE INTERIM TRAFFIC SIGNAL (RAMP 3)				Project No./Code
Designer: LCL	Structure Numbers			BR 0252-407
Detailer: LCL				17783
Sheet Subset: TRAFFIC	Subset Sheets: TS-4 of 6			Sheet Number 429

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EXISTING CDOT ITS PULL BOX TO REMAIN INTACT. REPLACE 96 STRAND FIBER BACKBONE CABLE BETWEEN THIS LOCATION AND THE RAMP 2/SANTA FE DRIVE ITS PULL BOX. (REFER TO PLAN TS-6)

INSTALL 2-2" CONDUITS AND 12 STRAND SM FIBER OPTIC CABLE

INSTALL ITS CABINET (SEE NOTES 2 AND 3)

INSTALL CCTV CAMERA ON RISER POLE AND MOUNT ON PROPOSED SIGN BRIDGE STRUCTURE

EXISTING CDOT ITS CONDUIT (TO REMAIN INTACT)

INSTALL NEW 2-3" CONDUITS AND 1-2" CONDUIT

INSTALL NEW 2-3" CONDUITS AND 1- 2" CONDUIT

FLASHING BEACON

1-2" CONDUIT

FLASHING BEACON

1-2" CONDUIT

RAMP 3

RAMP 2

SB I-25

NB I-25

00+529

MATCHLINE I-25 STA. 630+00

PLAN NOTES:
1. PAYMENT FOR CCTV CAMERA, RISER POLE AND ALL ASSOCIATED HARDWARE/CABLE CONNECTIONS SHALL BE PAID FOR AS CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE).

2. PAYMENT FOR ITS CONTROLLER CABINET SHALL BE PAID FOR AS COMMUNICATIONS CABINET.

3. INSTALLATION OF ALL ITS DEVICES SHALL INCLUDE A CONNECTION TO A NEW METERED POWER SOURCE. PAYMENT FOR METER AND POWER CONNECTION SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY. IT IS ESTIMATED THAT UP TO 500 LF OF 2 INCH CONDUIT WILL BE REQUIRED FOR POWER CONNECTION.

0' 15' 60' 120'

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

Print Date: 10/20/2010	
File Name: 16311TRAF_PH2_ITS_Plan1.dgn	
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Date:	Comments	Init.

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I-25/SANTA FE INTERCHANGE
ITS PLAN

Designer:	LCL	Structure Numbers	
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	TS-5 of 6

Project No./Code	
BR 0252-407	
17783	
Sheet Number	430

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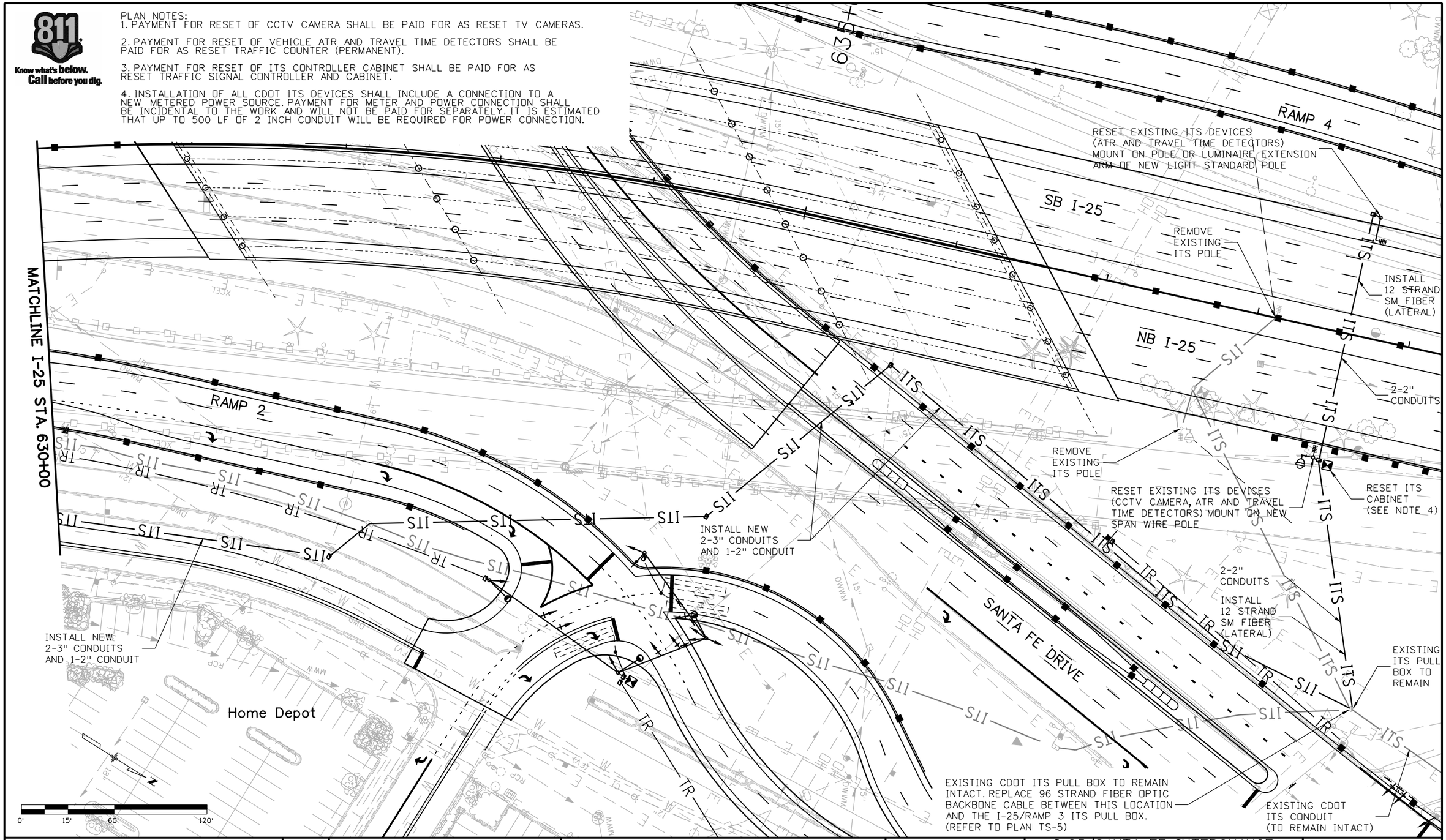
Know what's below. Call before you dig.

PLAN NOTES:
1. PAYMENT FOR RESET OF CCTV CAMERA SHALL BE PAID FOR AS RESET TV CAMERAS.

2. PAYMENT FOR RESET OF VEHICLE ATR AND TRAVEL TIME DETECTORS SHALL BE PAID FOR AS RESET TRAFFIC COUNTER (PERMANENT).

3. PAYMENT FOR RESET OF ITS CONTROLLER CABINET SHALL BE PAID FOR AS RESET TRAFFIC SIGNAL CONTROLLER AND CABINET.

4. INSTALLATION OF ALL CDOT ITS DEVICES SHALL INCLUDE A CONNECTION TO A NEW METERED POWER SOURCE. PAYMENT FOR METER AND POWER CONNECTION SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY. IT IS ESTIMATED THAT UP TO 500 LF OF 2 INCH CONDUIT WILL BE REQUIRED FOR POWER CONNECTION.



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Horiz. Scale: 1:60 Vert. Scale: As Noted			
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I-25/SANTA FE INTERCHANGE
ITS PLAN

Designer:	LCL	Structure Numbers	
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Sheet Subset:	TRAFFIC	Subset Sheets:	TS-6 of 6

Project No./Code
BR 0252-407
17783
Sheet Number 431

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TABULATION OF CONSTRUCTION DETOUR/PHASING ITEMS

STATION/LOCATION	621-00425 DETOUR (1) SY	202-00240 REMOVAL OF ASPHALT MAT (PLANING) SY	202-00220 REMOVAL OF ASPHALT MAT SY	403-00720 HOT MIX ASPHALT (PATCHING) (ASPHALT) TON	403-33841 HOT MIX (5) ASPHALT (GRS)(100) (PG 64-22) TON	403-34871 HOT MIX (5) ASPHALT (GRSX)(100) (PG 76-28) TON	411-10255 EMULSIFIED ASPHALT (SLOW SETTING) GAL	304-06004 AGGREGATE BASE COURSE (CLASS 6) TON	203-00010 UNCLASSIFIED EXCAVATION (2) CY
PHASE 1									
SB SANTA FE DETOUR	3104	249		27					
NB SANTA FE DETOUR	2198	189		21					
NB I-25 WIDENING			57	290			264	527	608
PHASE 2									
CROSS OVER DETOUR 1 (SB I-25)	6261	113		49					
CROSS OVER DETOUR 2 (SB I-25)	4175								
FRONTAGE ROAD MODIFICATION		175		236			158	645	
PHASE 3									
SB SANTA FE		1991		219					
NB SANTA FE		1934		213	275	92		489	
PHASE 4									
SB I-25				191			174	346	
RAMP 2 DETOUR	1033	21		2					
PHASE 5									
CROSS OVER DETOUR 3 (NB I-25)	4810								
PHASE 7									
NB I-25				1427			1298	2590	
NB SANTA FE			700						
PROJECT TOTALS	21581	4671	757	2675	275	92	1894	4596	608

FOR INFORMATION ONLY- INCLUDED IN THE COST OF DETOUR (SY)

STATION/LOCATION	EMBANKMENT MATERIAL (2) CY	UNCLASSIFIED EXCAVATION (2) CY	HOTMIX ASPHALT (GRS)(100) (PG64-22) TON	AGGREGATE BASE COURSE (CLASS 6) TON
PHASE 1				
SB SANTA FE DETOUR	48	5941	854	1320
NB SANTA FE DETOUR	58	1063	604	857
PHASE 2				
CROSS OVER DETOUR 1 (SB I-25)	20235	796	2066	3450
CROSS OVER DETOUR 2 (SB 1-25)	8818	1162	1378	2418
PHASE 4				
RAMP 2 DETOUR	1170	109	341	618
PHASE 5				
CROSS OVER DETOUR 3 (NB I-25)	0	3420	1587	2590
PROJECT TOTALS (FOR INFORMATION ONLY)	30329	12491	6830	11253

PHASING NOTES:

(1) DETOUR WORK CONSISTS OF CONSTRUCTING DETOUR PAVEMENT AND EMBANKMENT, MAINTENACE OF THE DETOURS, REMOVING THE DETOURS AND RESTORING THE AREA DISTURBED BY THE DETOURS TO THE ORIGINAL GRADE AND CONDITION. ITEMS SHOWN IN THE TABULATION MARKED "FOR INFORMATION ONLY" ARE INTENDED TO IDENTIFY OTHER, BUT NOT ALL, WORK REQUIRED IN ADDITION TO DETOUR PAVEMENT AND EARTHWORK. PAYMENT SHALL BE MADE UNDER ITEM 621-00425 DETOUR, SY. REFER TO PROJECT SPECIAL PROVISION OF SECTION 621, DETOUR, FOR ADDITIONAL INFORMATION.

(2) EARTHWORK QUANTITIES IN THIS TABULATION OF QUANTITIES WERE CALCULATED USING END AREA VOLUME METHOD AT 100' INTERVALS. END AREAS WERE DEFINED BETWEEN THE BOTTOM OF THE PROPOSED PAVEMENT SECTIONS AND EXISTING GROUND ELEVATIONS. CUT AND FILL SLOPES ARE ASSUMED TO BE 3:1. NO ADJUSTMENTS TO THE VOLUMES WERE MADE TO ACCOUNT FOR STRUCTURE BACK FILL OR EXISTING PAVEMENT SECTIONS.

(3) SEE TRAFFIC CONTROL TABULATIONS FOR QUANTITIES ASSOCIATED WITH TRAFFIC CONTROL PLANS (TCP).

(4) SEE WALL TABULATIONS FOR QUANTITIES ASSOCIATED WITH SHORING & RETAINING WALLS.

(5) THESE QUANTITIES ACCOUNT FOR THE ADDITIONAL PAVEMENT WHICH MUST BE CONSTRUCTED DURING PHASE 3 ALONG WITH THE FINAL NB SANTA FE ALIGNMENT. TRAFFIC WILL BE SHIFTED ONTO THE ADDITONAL PAVEMENT DURING PHASE 4 INORDER TO ACCOMMODATE THE BRIDGE CONSTRUCTION WHICH TAKES PLACE IN THAT PHASE.

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R-2

Sheet Revisions

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I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
TABULATION OF PHASING ITEMS

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: TD-1 of 1

Project No./Code
BR 0252-407
17783
Sheet Number 432 B

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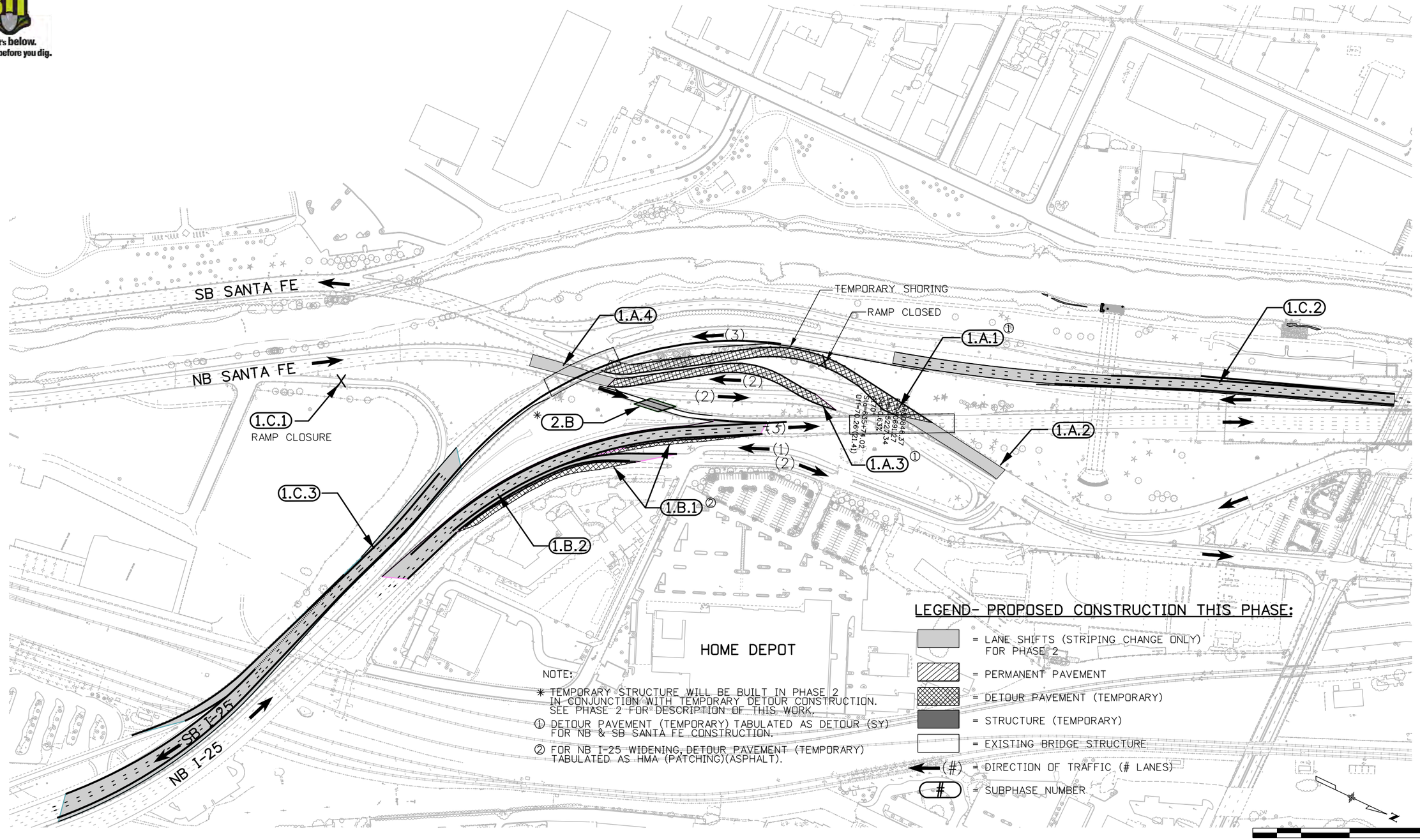

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Horiz. Scale: 1:300 Vert. Scale: As Noted					Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 1			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TRAFFIC	Subset Sheets: ST-01 of 39		Sheet Number 433

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CONSTRUCTION PHASING NOTES

Pre Construction: Erosion and Sediment Control

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
0.A	Initial Erosion Control			
0.A.1.	Install Perimeter control prior to clearing & grubbing. Erosion pre-work inspectionis required per CDOT's Consent Order. See Erosion Control Plans for additional details.			

Phase 1: Prep for NB I-25 Bridge & Partial Ramp 1 Bridge Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
1.A	Construct Santa Fe Detours			
1.A.1.1	Close the existing ramp from SB Santa Fe to SB I-25.		SB santa Fe to SB I-25 Area Detour Plan/Phase 1.A.1 Santa Fe TCP	Eliminates traffic movement for duration of construction.
1.A.1.2	Construct temporary shoring to hold back existing SB I-25 embankment.	Refer to Retaining Wall Plans for this construction.	Phase 1 I-25 TCP/Phase 1.A.1 Santa Fe TCP	Impacts to SB Interstate 25 traffic.
1.A.1.3	Construct SB Santa Fe detour pavement.	Refer to Detour Plan, Profile and Phasing Typical Sections for this construction.	Phase 1 I-25 TCP/Phase 1.A.1 Santa Fe TCP	Impacts to SB Santa Fe traffic during construction which ties the detour to the existing lanes of SB Santa Fe.
1.A.2	Shift Traffic from existing SB Santa Fe onto the new detour.	Refer to Detour Typical Sections for information.	Phase 1.A.2 & 1.A.3 Santa Fe TCP	Impacts SB Santa Fe traffic.
1.A.3.1	Remove existing SB Santa Fe pavement.		Phase 1.A.2 & 1.A.3 Santa Fe TCP	
1.A.3.2	Construct NB Santa Fe detour pavement.	Refer to Detour Plan, Profile and Phasing Typical Sections for this construction.	Phase 1.A.2 & 1.A.3 Santa Fe TCP	Impacts to NB Santa Fe traffic during construction which ties the detour to the existing lanes of NB Santa Fe.
1.A.4	Shift traffic from existing NB Santa Fe onto the new detour.	Refer to Phasing Typical Sections for information.	Phase 1.A.4 Santa Fe TCP	Impacts NB Santa Fe traffic.
1.B	Adjust NB I-25 Lanes to Accommodate Construction of Ramp 1 Structure			
1.B.1	Add pavement to the outside of existing NB I-25 to accommodate shifted traffic.	Refer to Phasing Typical Sections for this construction.	Phase 1 I-25 TCP	Impacts to NB I-25 traffic and NB I-25 to Santa Fe Ave Ramp traffic.
1. B.2	Shift traffic to East utilizing widened section of I-25.	The new section has reduced lane & shoulder widths. This work also requires slight shifting of Existing NB I-25 to Santa Fe Ave. ramp laneage. Refer to Detour Typical Sections.	Phase 1 I-25 TCP	Impacts to NB I-25 traffic and NB I-25 to Santa Fe Ave Ramp traffic.
1.C	Lane Shifts to Accommodate Phase 2 Construction			
1.C.1	Close existing NB Santa Fe to SB I-25 Ramp		NB Santa Fe to SB I-25 Area Detour Plan	Eliminates traffic movement for duration of construction.
1.C.2	Re-stripe SB I-25 on the North end of the project, shifting traffic to the West to accommodate Phase 2 Cross Over Detour 2 construction.	Refer to Phasing Typical Sections for information.	Phase 2 I-25 TCP	Impacts to SB I-25 traffic.
1.C.3	Re-stripe SB I-25 on the South end of the project, shifting traffic to the West to accommodate Phase 2 Cross Over Detour 1 construction.	Refer to Phasing Typical Sections for information.	Phase 1 I-25 TCP	Impacts to SB I-25 traffic.

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R-2

Sheet Revisions

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Region 6 RLB

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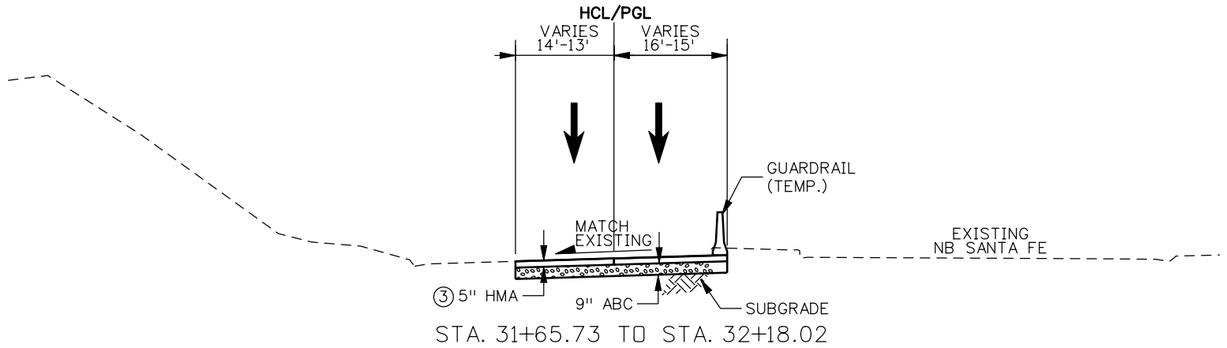
I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 1

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-02 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 434 B

PHASE 1.A.1
SB SANTA FE DETOUR



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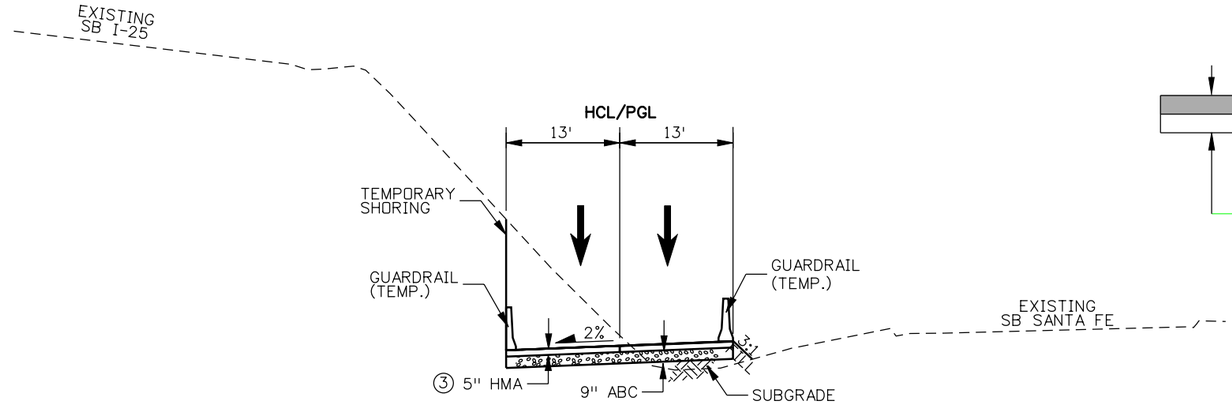
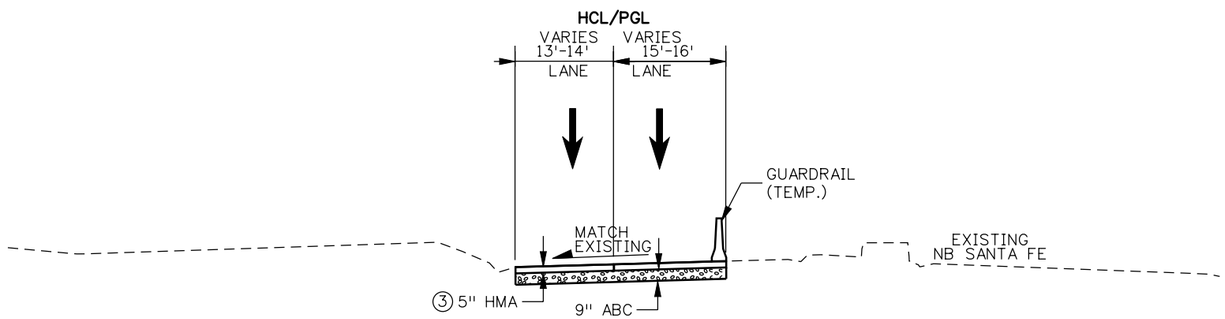


STA. 32+18.02 TO STA. 38+51.92



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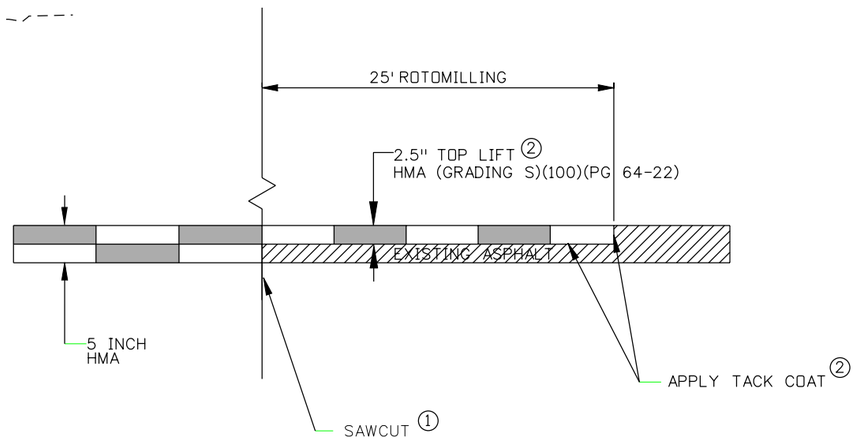

APPROACH TO PROJECT HMA PATCH DETAIL

NOT TO SCALE

STA. 314+40.7 TO STA. 314+65.73
STA. 40+50.00 TO STA. 40+75.00

NOTE: ① SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALT MAT (PLANNING)

② TACK COAT & HMA (GRS)(100)(PG64-22) INCLUDED IN THE ITEM HMA (PATCHING)(ASPHALT)

③ SEE HMA LIFT DETAILS FOR MORE INFORMATION.

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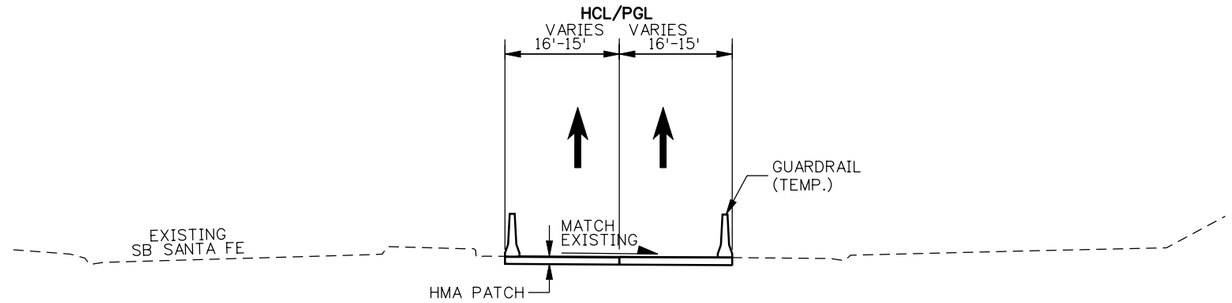
I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 1 TYPICAL SECTIONS

Designer: JSC
Detailer: ZV
Sheet Subset: TYPICAL
Structure Numbers:
Subset Sheets: ST-03of 39

Project No./Code
BR 0252-407
17783
Sheet Number 435 B

PHASE 1.A.3
NB SANTA FE DETOUR



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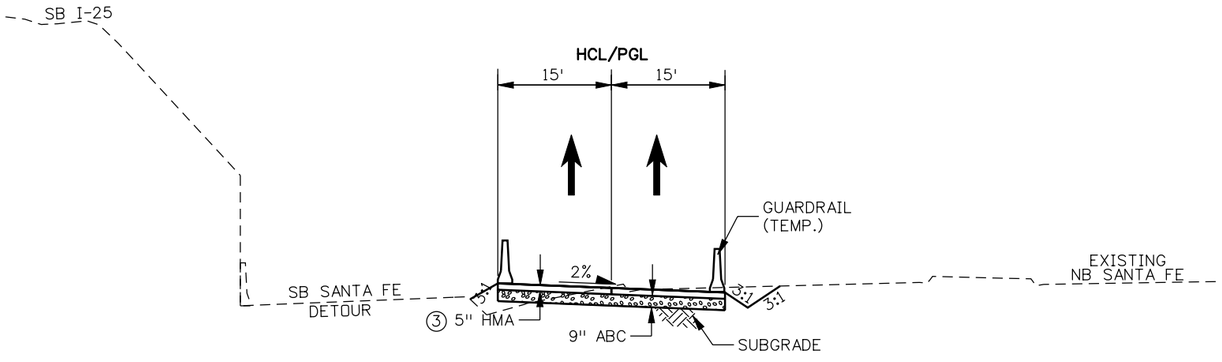

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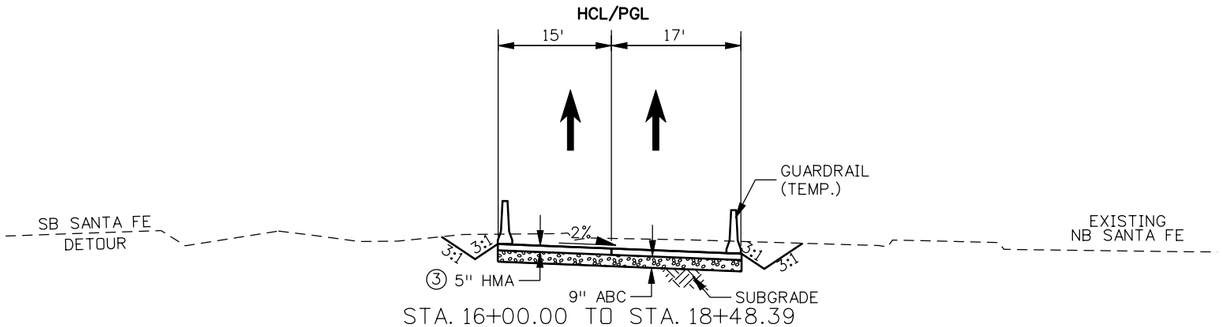
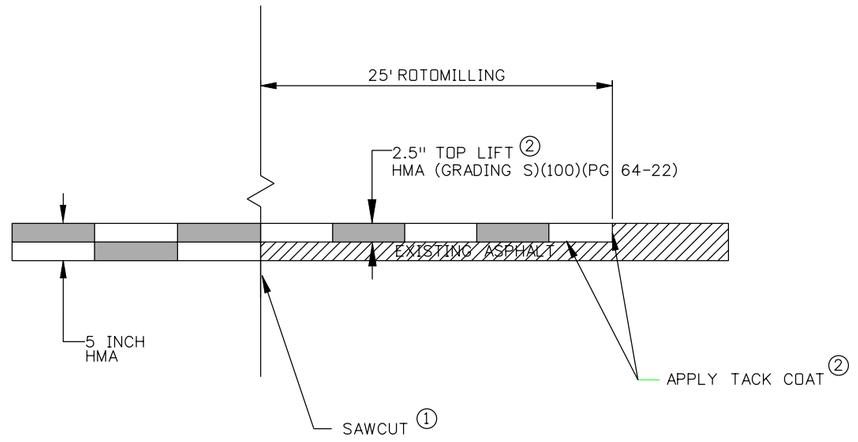


STA. 16+00.00 TO STA. 18+48.39



APPROACH TO PROJECT HMA PATCH DETAIL

NOT TO SCALE

STA. 314+40.7 TO STA. 314+65.73
STA. 40+50.00 TO STA. 40+75.00

NOTE: ① SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALTMAT (PLANNING)

② TACK COAT & HMA (GRS)(100)(PG64-22) INCLUDED IN THE ITEM HMA (ASPHALT)(PATCHING)

③ SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_Typ_Sect02.dgn		Date:	Comments	Init.		No Revisions:
Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials					Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 1 TYPICAL SECTIONS			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TYPICAL	Subset Sheets: ST-04 of 39		Sheet Number 436 B

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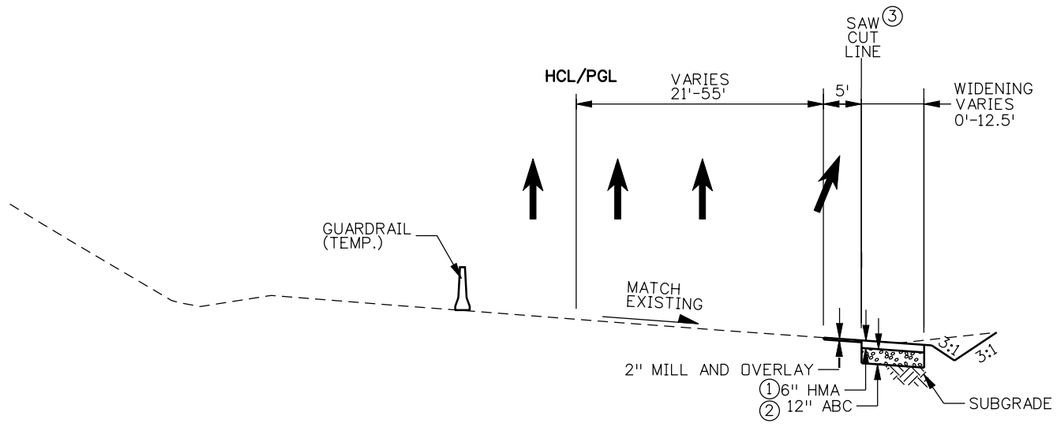
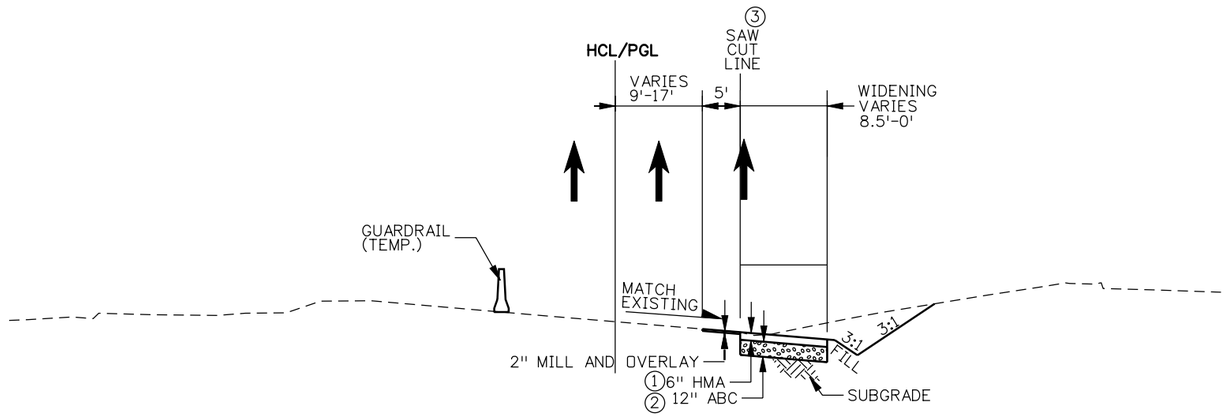
PHASE 1.B.1
WIDEN NB I-25



STA. 51+10.69 TO STA. 57+32.13



STA. 57+80.51 TO STA. 62+67.94

NOTE: ① HMA USED FOR WIDENING IN PHASE 1.C.1 INCLUDED IN THE ITEM HMA (ASPHALT)(PATCHING). SEE HMA LIFT DETAILS FOR MORE INFORMATION.

② AGGREGATE BASE COURSE FOR WIDENING IN PHASE 1.C.1 INCLUDED IN THE ITEM ABC (CLASS 6).

③ SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALT MAT. SAWCUT TO BE APPLIED AT LEAST 1 FOOT FROM THE EXISTING EDGE OF PAVEMENT.

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Unit Information Unit Leader Initials					Phone: 303-972-9112 FAX: 303-972-9114	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB	

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 1 TYPICAL SECTIONS				Project No./Code
Designer: JSC	Structure Numbers			BR 0252-407
Detailer: ZV				17783
Sheet Subset: TYPICAL	Subset Sheets: ST-05 of 39			Sheet Number 437 B

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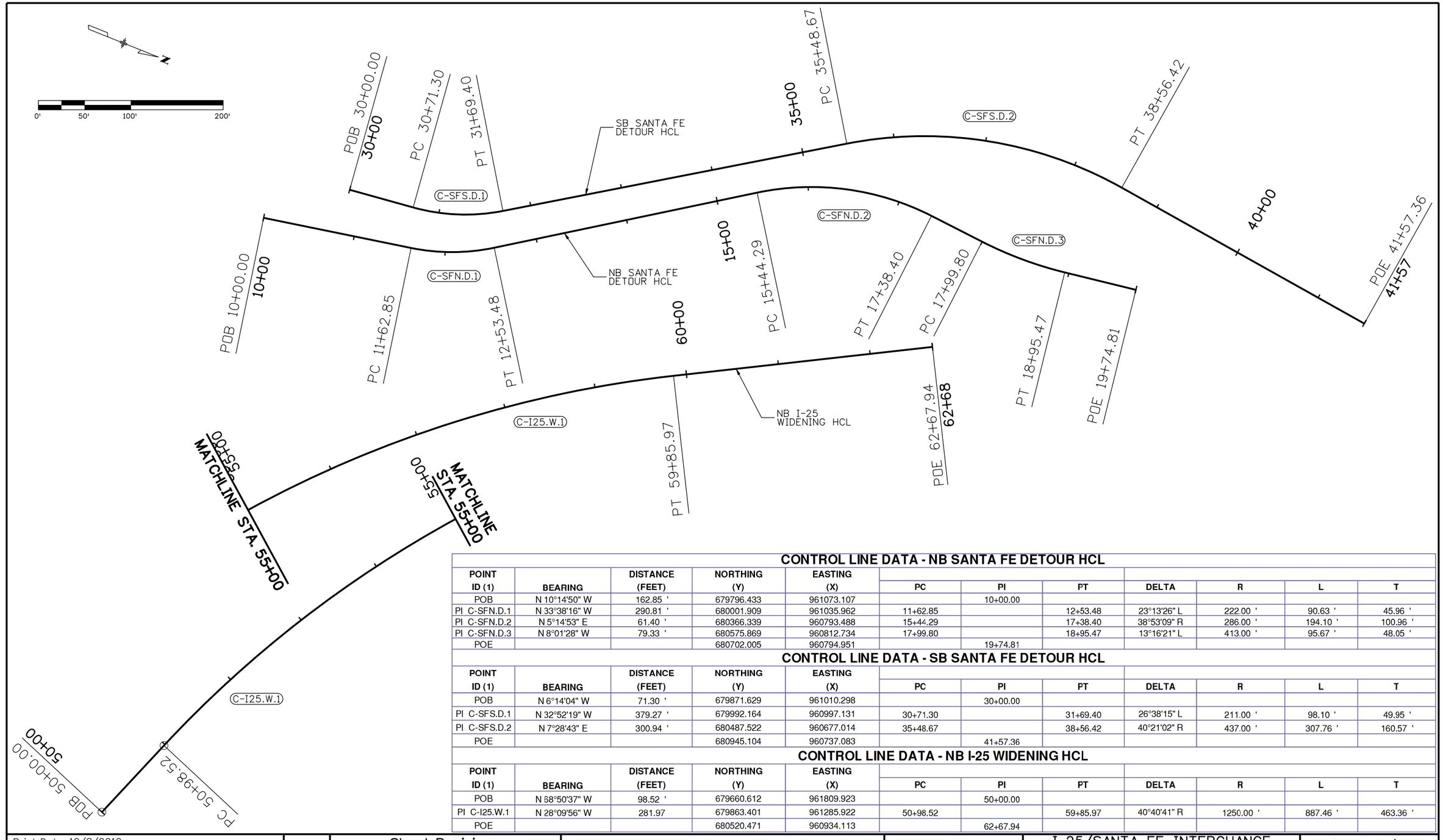

CONTROL LINE DATA - NB SANTA FE DETOUR HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 10°14'50" W	162.85 '	679796.433	961073.107		10+00.00					
PI C-SFN.D.1	N 33°38'16" W	290.81 '	680001.909	961035.962	11+62.85		12+53.48	23°13'26" L	222.00 '	90.63 '	45.96 '
PI C-SFN.D.2	N 5°14'53" E	61.40 '	680366.339	960793.488	15+44.29		17+38.40	38°53'09" R	286.00 '	194.10 '	100.96 '
PI C-SFN.D.3	N 8°01'28" W	79.33 '	680575.869	960812.734	17+99.80		18+95.47	13°16'21" L	413.00 '	95.67 '	48.05 '
POE			680702.005	960794.951		19+74.81					

CONTROL LINE DATA - SB SANTA FE DETOUR HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 6°14'04" W	71.30 '	679871.629	961010.298		30+00.00					
PI C-SFS.D.1	N 32°52'19" W	379.27 '	679992.164	960997.131	30+71.30		31+69.40	26°38'15" L	211.00 '	98.10 '	49.95 '
PI C-SFS.D.2	N 7°28'43" E	300.94 '	680487.522	960677.014	35+48.67		38+56.42	40°21'02" R	437.00 '	307.76 '	160.57 '
POE			680945.104	960737.083		41+57.36					

CONTROL LINE DATA - NB I-25 WIDENING HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 58°50'37" W	98.52 '	679660.612	961809.923		50+00.00					
PI C-I25.W.1	N 28°09'56" W	281.97	679863.401	961285.922	50+98.52		59+85.97	40°40'41" R	1250.00 '	887.46 '	463.36 '
POE			680520.471	960934.113		62+67.94					

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1 DETOUR GEOMETRIC PLAN	Project No./Code
File Name: 16311TRAF_PH2_GeomPlan_Ph1Detour.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Detailer: SYS / Sheet Subset: TRAFFIC / Structure Numbers	17783
Unit Information Unit Leader Initials						Void:	Subset Sheets:ST-05a of 39	Sheet Number 437a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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PHASE 1 DETOUR HORIZONTAL CURVE DATA TABLE

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	DEGREE OF CURVE (degree)	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design) (percent)	SPEED (MPH)	STOPPING SIGHT DISTANCE (feet)	NOTE
SB SANTA FE DETOUR									
C-SFS.D.1	26deg38'15"	211.00	27deg09'16"	left	right	2.00	25.00	162.00	horizontal sight distance (existing SB I-25 bridge abutment location) controls speed
C-SFS.D.2	40deg21'02"	437.00	13deg06'40"	right	left	2.00	25.00	300.00	curve radius controls speed
C-SFS.D.1L	3deg42'19"	248.00	23deg06'11"	left	right	2.00	25.00	-	15 ft left offset from C-SFS.D.1
C-SFS.D.1R	22deg43'32"	224.00	25deg34'43"	left	right	2.00	25.00	-	13 ft right offset from C-SFS.D.1
C-SFS.D.2L	40deg21'02"	452.00	12deg40'34"	right	left	2.00	25.00	-	15 ft left offset from C-SFS.D.2
C-SFS.D.2R	40deg21'02"	450.00	12deg43'57"	right	left	2.00	25.00	-	13 ft right offset from C-SFS.D.2
NB SANTA FE DETOUR									
C-SFN.D.1	23deg23'26"	222.00	25deg48'32"	left	left	2.00	25.00	185.00	curve radius/adverse crown controls speed
C-SFN.D.2	38deg53'09"	286.00	20deg02'01"	right	right	2.00	25.00	164.00	horizontal sight distance (phase 2- I25 bridge abutment location) controls speed
C-SFN.D.3	13deg16'21"	413.00	13deg52'23"	left	left	2.00	30.00	230.00	horizontal sight distance (existing NB I25 stradle bent column location) controls speed
C-SFN.D.1L	23 deg41'34"	250.00	22deg55'06"	left	left	2.00	25.00	-	13 ft left offset from C-SFN.D.1
C-SFN.D.1R	16deg40'11"	222.00	25deg48'32"	left	left	2.00	25.00	-	13 ft right offset from C-SFN.D.1
C-SFN.D.2L	38deg53'09"	299.00	19deg09'45"	right	right	2.00	25.00	-	13 ft left offset from C-SFN.D.2
C-SFN.D.2R	38deg53'09"	325.00	17deg37'46"	right	right	2.00	25.00	-	13 ft right offset from C-SFN.D.2
C-SFN.D.3L	7deg28'45"	400.00	14deg19'26"	right	right	2.00	25.00	-	13 ft left offset from C-SFN.D.3
C-SFN.D.3R	12deg28'07"	426.00	13deg26'59"	right	right	2.00	25.00	-	13 ft right offset from C-SFN.D.3
NB I-25 WIDENING									
C-I25.W.1	40deg40'41"	1250.00	4deg35'01"	right	right	match existing	50.00	425.00	horizontal sight distance controls speed

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_GeomPlan_Detour1HorizCurveData.dgn
Horiz. Scale: 1:300 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	NEW SHEET	JSC

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 1 DETOUR
HORIZONTAL CURVE TABLE

Designer: JSC
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets:ST-05bof 39

Project No./Code
BR 0252-407
17783
Sheet Number 437b B

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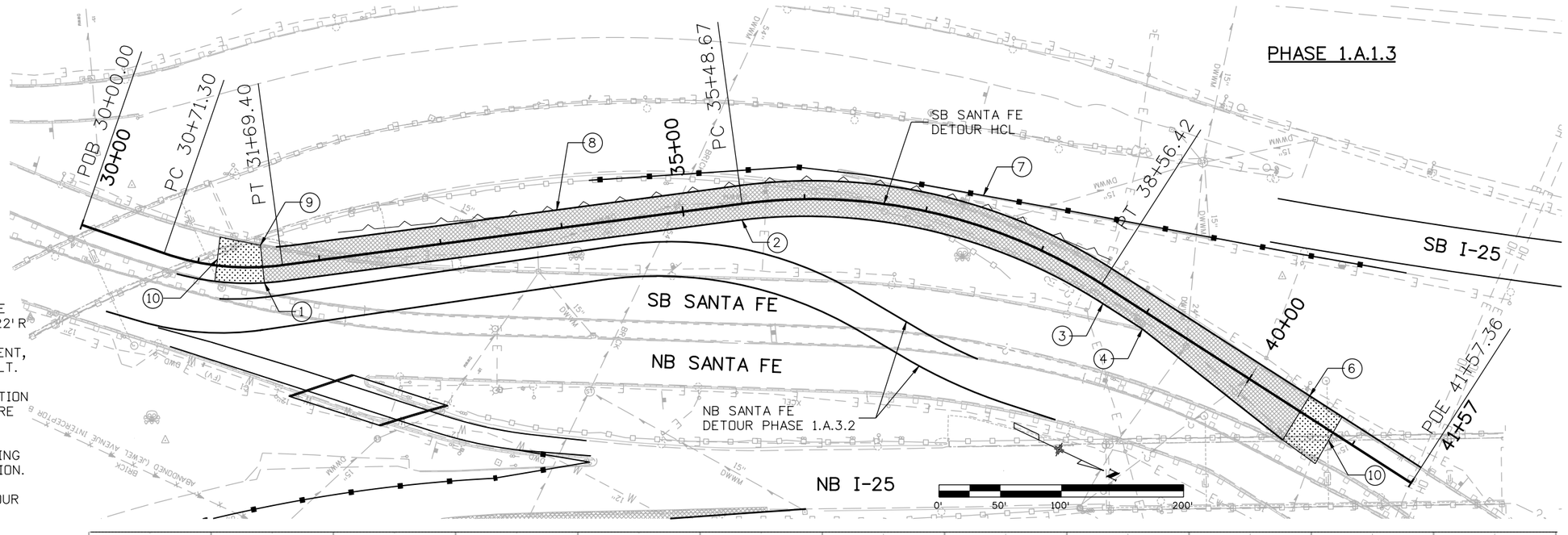
Know what's below. Call before you dig.

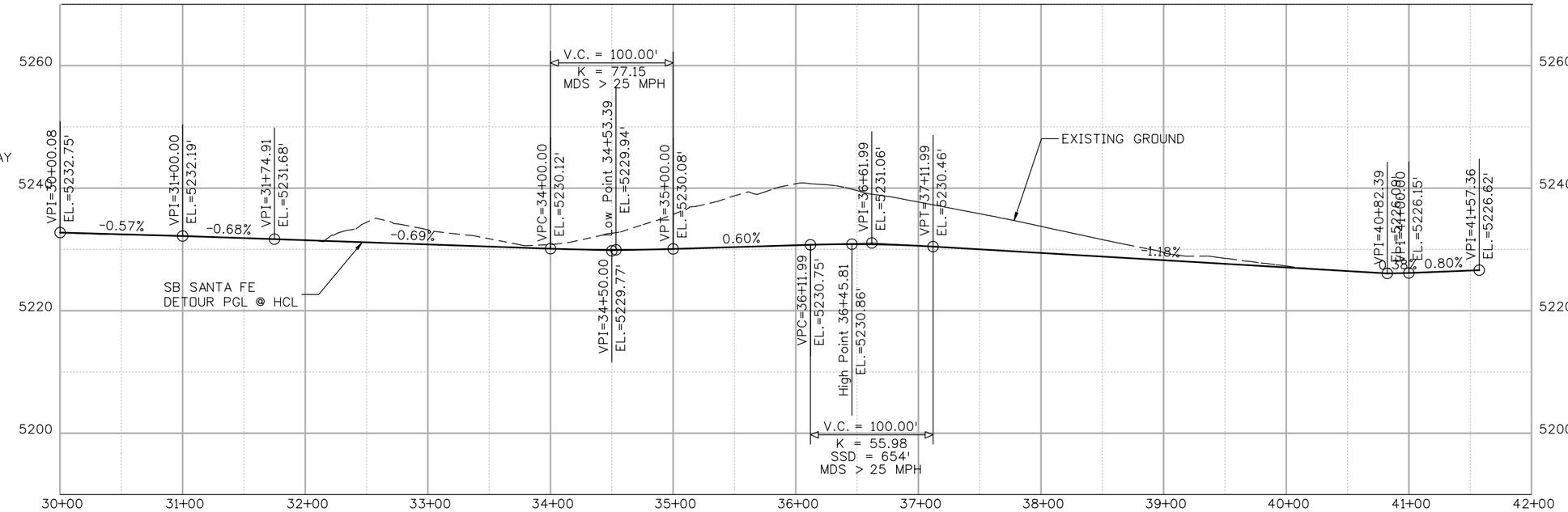
CONSTRUCTION NOTES:

1. BEGIN SB SANTA FE DETOUR CONSTRUCTION, MATCH EXISTING PAVEMENT STA. 31+65.73
2. PC INSIDE EDGE OF PAVEMENT STA. 35+39.11, 13' R, RAD.=450'
3. PT INSIDE EDGE OF PAVEMENT, STA. 38+65.97, 13' R, RAD.=450'
4. BEGIN TAPER TO EXISTING STA. 39+04.35, 13' R.
5. END TAPER, MATCH EXISTING EDGE OF PAVEMENT STA. 40+50.00, 27.22' R
6. MATCH EXISTING EDGE OF PAVEMENT, END DETOUR STA. 40+50.00, 15.0' LT.
7. GUARDRAIL (TEMP) SEE CONSTRUCTION TRAFFIC CONTROL PLANS FOR MORE INFORMATION.
8. TEMPORARY SHORING, SEE RETAINING WALL PLANS FOR MORE INFORMATION.
9. MATCH EXISTING EOP, BEGIN DETOUR STA. 31+65.73, 13.32' LT.
10. LIMITS OF 2" ROTOMILL AND 2" HMA OVERLAY (SAW CUT LINE) STA. 31+40.70 & STA. 40+75.00

LEGEND:

- HMA PAVEMENT (SEE TYPICAL SECTIONS)
- 2" ROTOMILL AND HMA OVERLAY (SEE TYPICAL SECTIONS)





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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Phone: 303-972-9112 FAX: 303-972-9114
Unit Information Unit Leader Initials					Region 6 RLB
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUSTION PHASING PHASE 1 SB SANTA FE DETOUR			Project No./Code
No Revisions:	Designer: JSC	Structure Numbers		BR 0252-407
Revised:	Detailer: ZV			17783
Void:	Sheet Subset: PHASING	Subset Sheets: ST-05cof 39		Sheet Number 437c B

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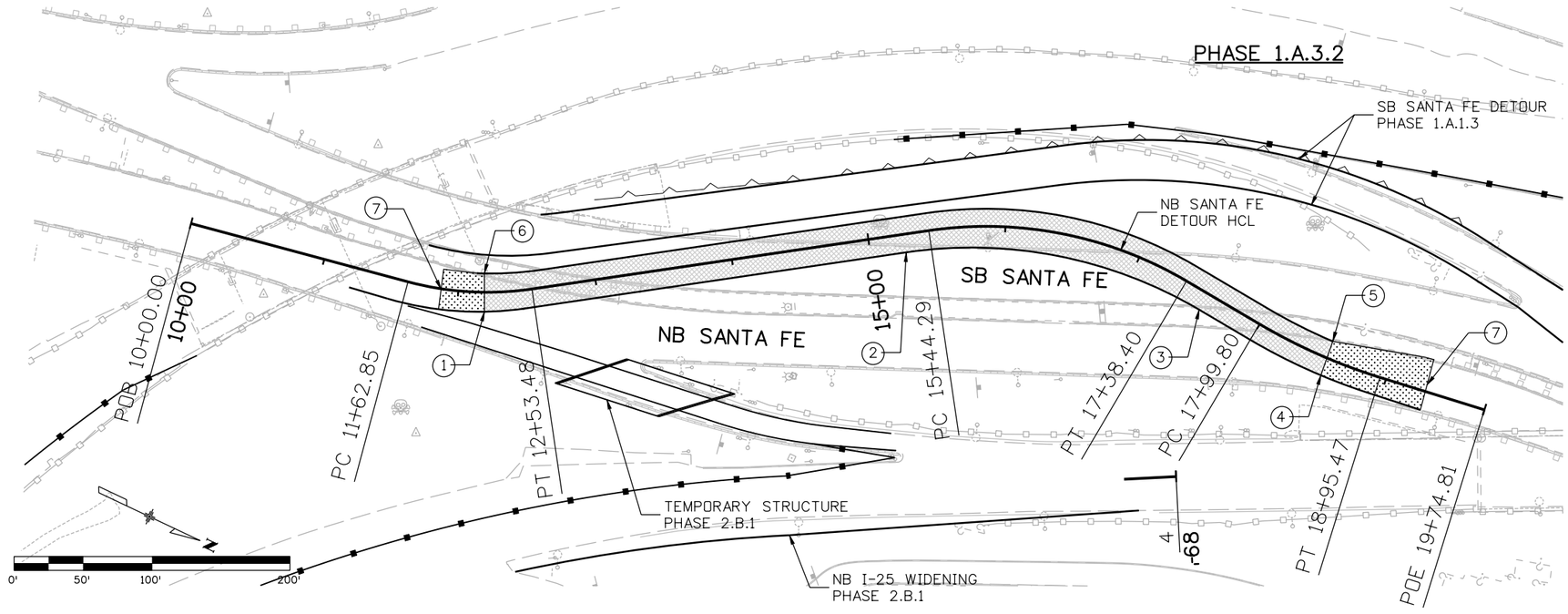
Know what's below. Call before you dig.

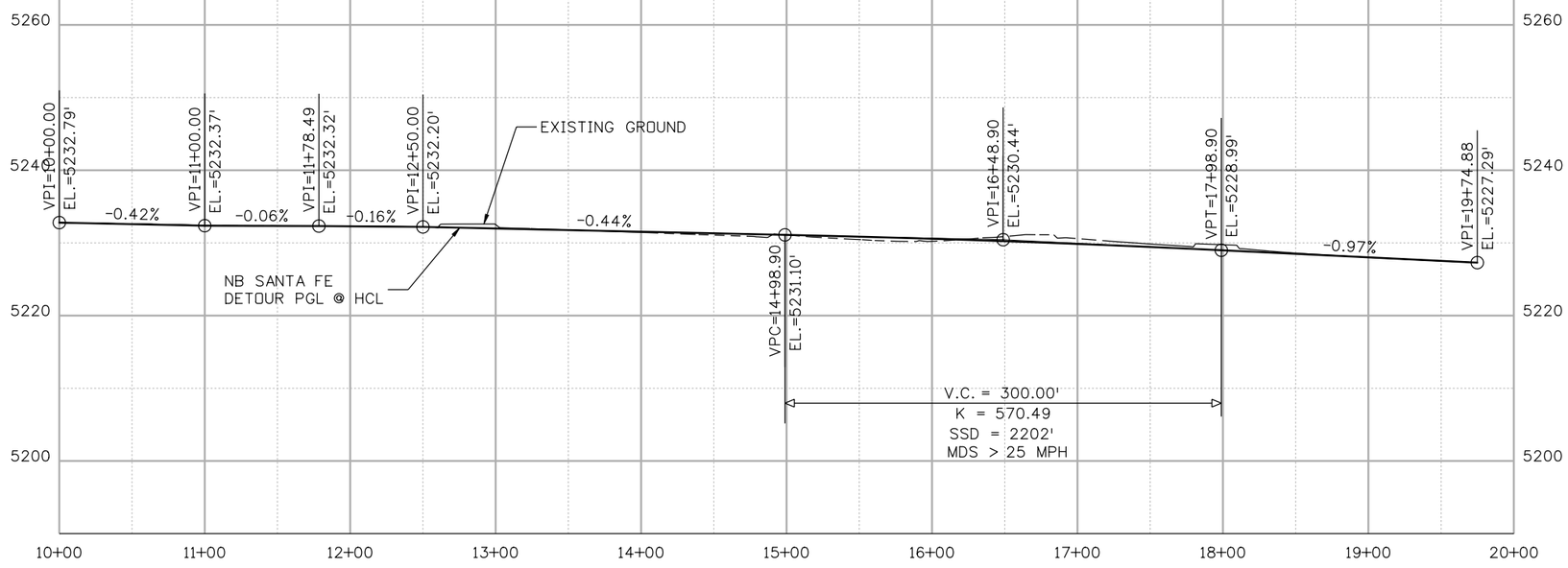
CONSTRUCTION NOTES:

1. BEGIN NB SANTA FE DETOUR CONSTRUCTION, MATCH EXISTING PAVEMENT STA. 12+12.72, 13' RT.
2. PC INSIDE EDGE OF PAVEMENT, STA. 15+26.01, 13' RT, RAD.=325'
3. PT INSIDE EDGE OF PAVEMENT, STA. 17+56.83, 13' RT, RAD.=325'
4. END NB SANTA FE DETOUR, MATCH EXISTING STA. 18+48.39, 13' RT.
5. MATCH EXISTING EDGE OF PAVEMENT, END DETOUR, STA. 18+48.39, 13' LT
6. MATCH EXISTING EDGE OF PAVEMENT, BEGIN DETOUR STA. 12+12.72, 13.15' LT.
7. LIMITS OF 2" ROTOMILL AND 2" HMA OVERLAY (SAW CUT LINE) STA. 11+85.41 AND STA. 19+30.54

LEGEND:

- HMA PAVEMENT (SEE TYPICAL SECTIONS)
- 2" ROTOMILL AND HMA OVERLAY (SEE TYPICAL SECTIONS)





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File Name: 16311TRAF_PH2_ST1_NB SF_Plan01.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Detailer: ZV / Sheet Subset: PHASING / Structure Numbers / Subset Sheets:ST-05dof 39	17783
Unit Information Unit Leader Initials						Void:		Sheet Number 437d B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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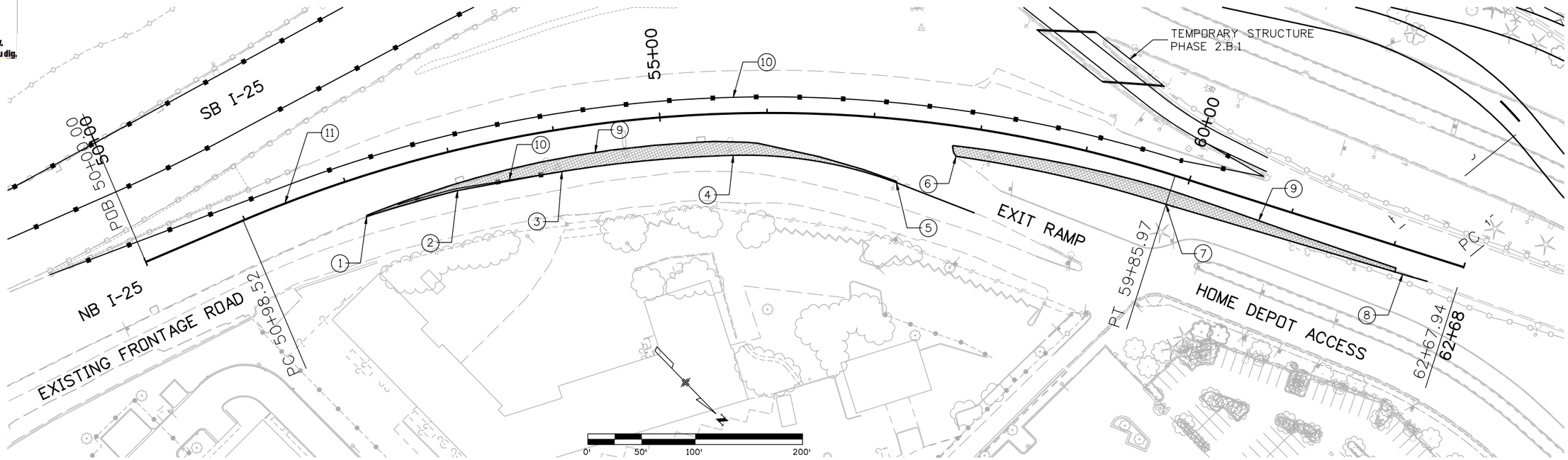

PHASE 1.B.1

CONSTRUCTION NOTES:

(1) BEGIN NB I-25 WIDENING
STA. 52+09.37, 37' RT, RAD.=1213'
SAWCUT LINE, STA. 52+09.37, 36' RT.

(2) BEGIN TAPER, STA. 53+00.00, 37' RT.
SAWCUT LINE STA. 53+00.00, 30.44' RT.

(3) END TAPER, STA. 53+71.79, 39' RT.
SAWCUT LINE, STA. 53+71.79, 27.42' RT.,
BEGIN EDGE OF PAVEMENT, RAD.=1211'

(4) END NB I-25 WIDENING, BEGIN SANTA FE AVE.
OFF RAMP WIDENING, STA. 55+67.46, 39' RT., RAD.=400'
SAWCUT LINE, STA. 55+67.46, 26.19' RT.

(5) END SANTA FE AVE. OFF RAMP WIDENING
SAWCUT LINE, STA. 57+31.10, 60.21' RT., END EOP RAD.=1211'
BEGIN EOP RAD.=400', SAWCUT LINE, STA. 57+31.10, 59.18' RT.

(6) BEGIN NB I-25 WIDENING,
STA. 57+80.51, 28' RT., RAD.=1222'
SAWCUT LINE, STA. 57+80.51, 18.31' RT.

(7) END EDGE OF PAVEMENT, RAD.=1222'
BEGIN TAPER TO EXISTING, STA. 59+85.97, 28' RT.
SAWCUT LINE, STA. 59+85.97, 14.26' RT.

(8) END TAPER, MATCH EXISTING
STA. 62+39.88, 22.93' RT.
SAWCUT LINE STA. 62+39.88, 21.93' RT.

(9) SAWCUT LINE 1 FOOT FROM EXISTING EDGE OF PAVEMENT

(10) GUARDRAIL (TEMP), SEE CONSTRUCTION TRAFFIC CONTROL PLANS FOR MORE INFORMATION.

(11) PGL FOR WIDENING SHOULD MATCH EXISTING NB I-25 ELEVATIONS. CROSS SLOPE FOR WIDENING SHOULD MATCH EXISTING NB I-25.

LEGEND:

HMA PAVEMENT (SEE TYPICAL SECTIONS)

Know what's below. Call before you dig.

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Print Date: 12/8/2010		Sheet Revisions	
File Name: 16311TRAF_PH2_ST1_NB I25_Plan01.dgn		Date:	Comments / Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET / JSC
Unit Information Unit Leader Initials			

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Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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No Revisions:				BR 0252-407
Revised:	Designer: JSC	Structure Numbers		17783
Void:	Detailer: ZV			
	Sheet Subset: PHASING	Subset Sheets: ST-05eof 39		Sheet Number 437e B

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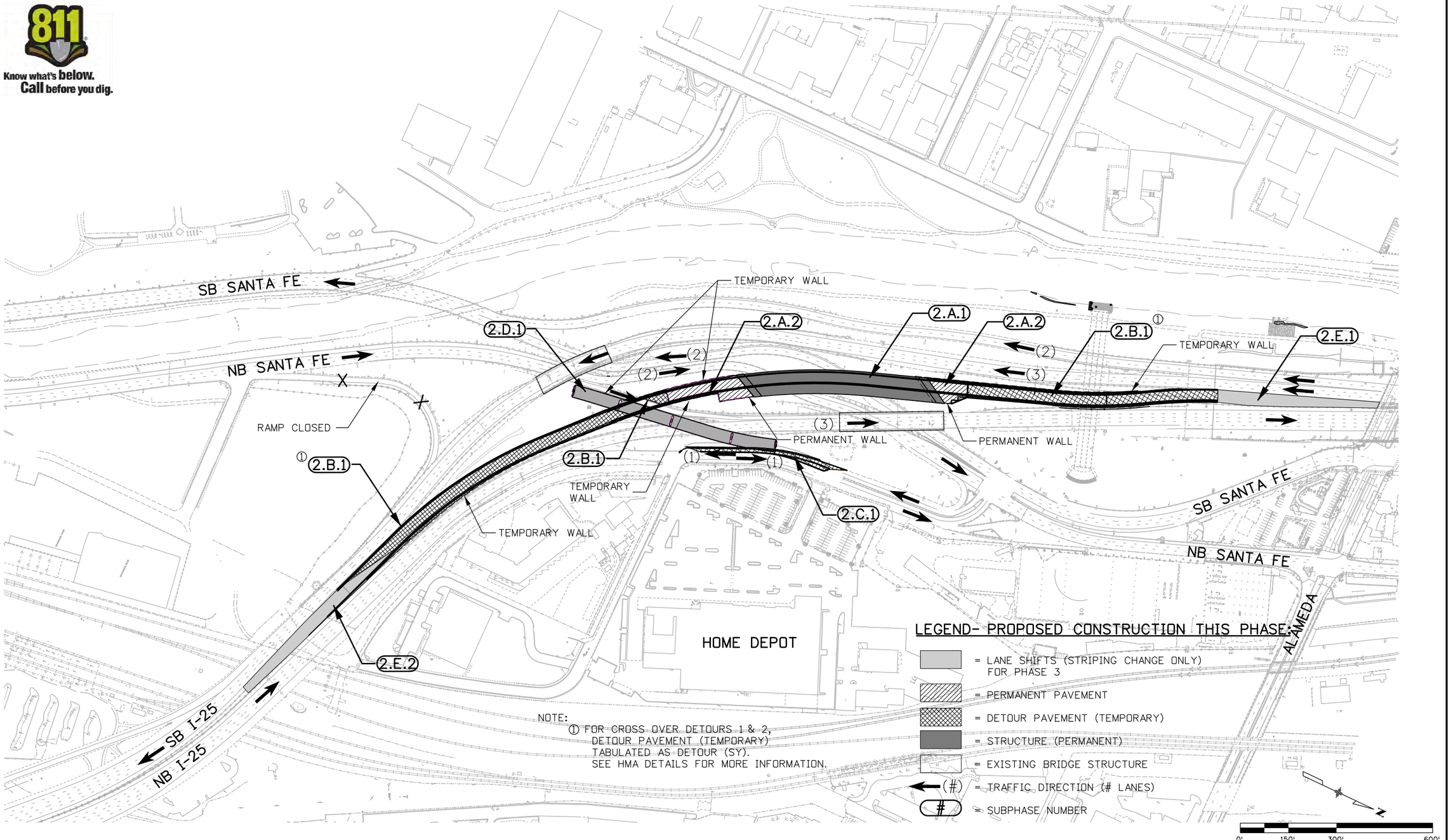

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Horiz. Scale: 1:300 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 2			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TRAFFIC	Subset Sheets: ST-06 of 39		Sheet Number 438

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CONSTRUCTION PHASING NOTES

Phase 2: Construct NB I-25 Bridge Structure & Prep for Additional Ramp 1 Bridge Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
2.A	Bridge & Permanent Lane Construction			
2.A.1	Construct entire NB I-25 over Santa Fe bridge & portions of permanent retaining walls.	Refer to I-25 Bridge Plans & Retaining Wall Plans for this construction.	Phase 2 I-25 TCP	
2.A.2.1	Construct roadway embankment/temporary retaining walls for proposed NB I-25 pavement.	Refer to Retaining Wall Plans for this construction.	Phase 2 I-25 TCP	
2.A.2.2	Construct portions of permanent NB I-25 pavement.		Phase 2 I-25 TCP	
2.B	SB I-25 Cross Over Detours & Temporary Structure			
2.B.1.1	Construct roadway embankment & retaining walls (temporary & permanent) for Cross Over Detours 1 & 2 and portions of final NB I-25 alignment.	Refer to Retaining Wall Plans and Phasing Typical Sections for this construction.	Phase 2 I-25 TCP	Some Impact to SB I-25 traffic.
2.B.1.2	In conjunction with placement of roadway embankment, construct Temporary Structure which will carry I-25 traffic over existing NB Santa Fe to NB I-25 Ramp traffic.	Refer to Bridge Plans and Phasing Sections for this construction.	Phase 2 I-25 TCP	Impacts to NB Santa Fe to NB I-25 Ramp traffic.
2.B.1.3	Construct temporary pavement for SB I-25 Cross Over Detours 1 & 2.	Refer to Detour Typical Sections for this construction.	Phase 2 I-25 TCP	Some Impact to SB I-25 traffic.
2.C	Frontage Road Laneage Shifts	Refer to Phasing Typical Sections for information.		Impacts to NB & SB Frontage Road Traffic
2.C.1.1	Shift SB Frontage Road traffic to East side of existing median island.	Traffic will be head to head. Some adjustment of laneage will be necessary at the Home Depot Access intersection, as well as the existing intersection of the SB I-25 Exit Ramp and the Frontage Road.	Phase 2.C.1.1 Frontage TCP	Impacts to NB & SB Frontage Road & SB Exit Ramp traffic.
2.C.1.2	Remove existing median island.	Refer to Phasing Typical Sections for information.	Phase 2.C.1.1 Frontage TCP	Impacts to NB & SB Frontage Road & SB Exit Ramp traffic.
2.C1.3	Reconstruct SB Frontage Road lanes to accommodate Ramp 1 construction.	Refer to Phasing Typical Sections for information.	Phase 2.C.1.1 Frontage TCP	Impacts to NB & SB Frontage Road & SB Exit Ramp traffic.
2.C.1.4	Shift SB Frontage Road traffic to newly constructed lanes.	NB Frontage Road Traffic will have two lanes. Some adjustment of laneage will be necessary at the Home Depot Access intersection, as well as the existing intersection of the SB I-25 Exit Ramp and the Frontage Road. Refer to Detour Typical Sections for information.	Phase 2.C.1.4 Frontage TCP	Impacts to NB & SB Frontage Road & SB Exit Ramp traffic.
2.D	Construct Portion of Ramp 1 Bridge Structure			
2.D.1	Construct Unit 2 of the Ramp 1 Bridge Structure	Refer to Ramp 1 Bridge Plans for this construction	Phase 2.C.1.1 Frontage TCP	
2.E	Lane Shifts to Accommodate Phase 3 Construction			
2.E.1	Re-Stripe SB I-25 on the North end of the project, shifting SB I-25 traffic to Cross Over Detour 2.	Refer to Phasing Typical Sections for information.	Phase 3 I-25 TCP	Impacts to SB I-25 traffic during switch of traffic from the existing lanes to Cross Over Detour 2.
2.E.2	Re-Stripe SB I-25 on the South End of the Project, shifting SB I-25 traffic to Cross Over Detour 1.	Refer to Phasing Typical Sections for information.	Phase 3 I-25 TCP	Impacts to SB I-25 traffic during switch of traffic from the existing lanes to the Cross Over Detour 1.

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_Const.Phasing_Notes02.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111
R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 2

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: ST-07 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 439 B

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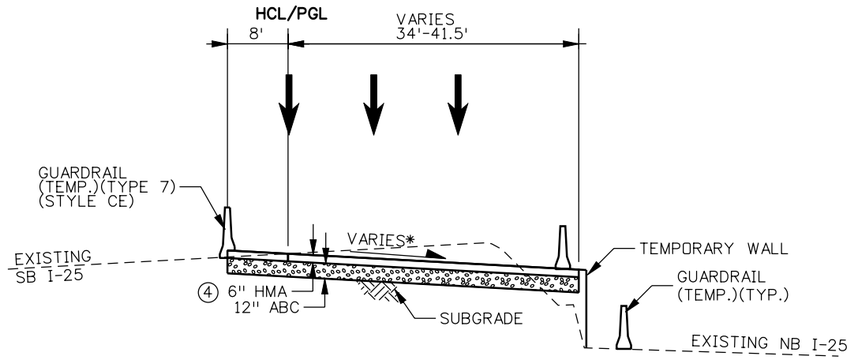
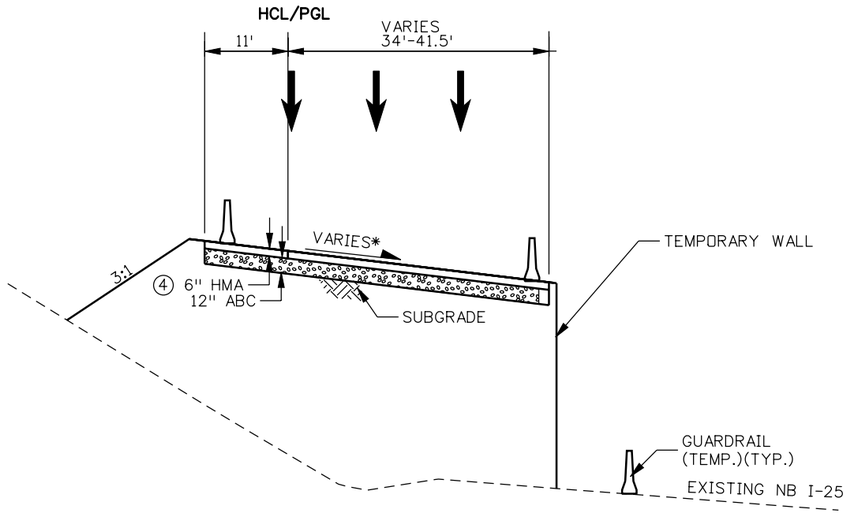
PHASE 2.B.1
SB I-25 CROSS OVER DETOUR 1 SOUTH OF BRIDGE (I-25 OVER SANTA FE)



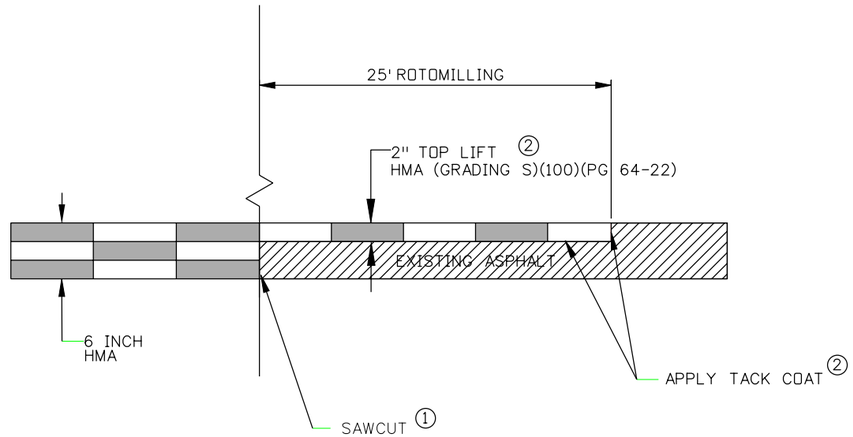
STA. 220+00.00 TO STA. 224+00.00

* SEE CROSS OVER DETOUR PROFILES FOR SUPERELEVATION TRANSITIONS



STA. 224+00.00 TO STA. 230+61.57

* SEE CROSS OVER DETOUR PROFILES FOR SUPERELEVATION TRANSITIONS



APPROACH TO PROJECT HMA PATCH DETAIL ③

NOT TO SCALE

NOTE: ① SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALT MAT (PLANNING).

② TACK COAT & HMA (GRS)(100)(PG64-22) TO INCLUDED IN THE ITEM HMA (PATCHING)(ASPHALT).

③ ROTOMILL & OVERLAY TO OCCUR 25' PRIOR TO P.O.B. STA. 220+00 AS WELL AS 25' ON EITHER SIDE OF FRONTAGE ROAD MODIFICATION WORK LIMITS.

④ SEE HMA LIFT DETAILD FOR MORE INFORMATION.

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_Typ_Sect04.dgn		Date:	Comments	Init.	2000 South Holly Street	No Revisions:
Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	Denver, CO 80222	Revised:
Unit Information Unit Leader Initials					Phone: 303-972-9112 FAX: 303-972-9114	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB	

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 2 TYPICAL SECTIONS			
Designer: JSC	Structure Numbers		Project No./Code
Detailer: ZV			BR 0252-407
Sheet Subset: TYPICAL	Subset Sheets: ST-08 of 39		17783
			Sheet Number 440 B

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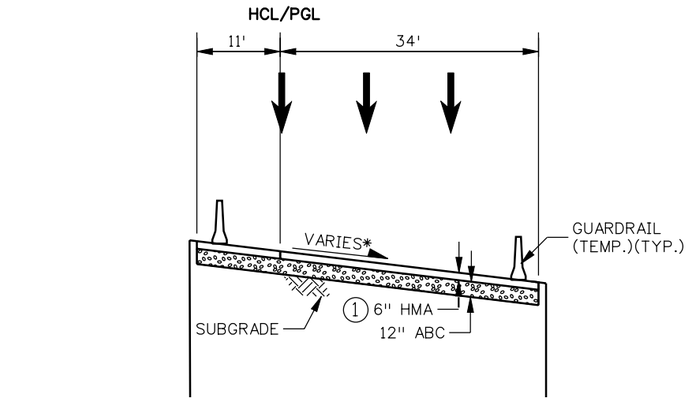
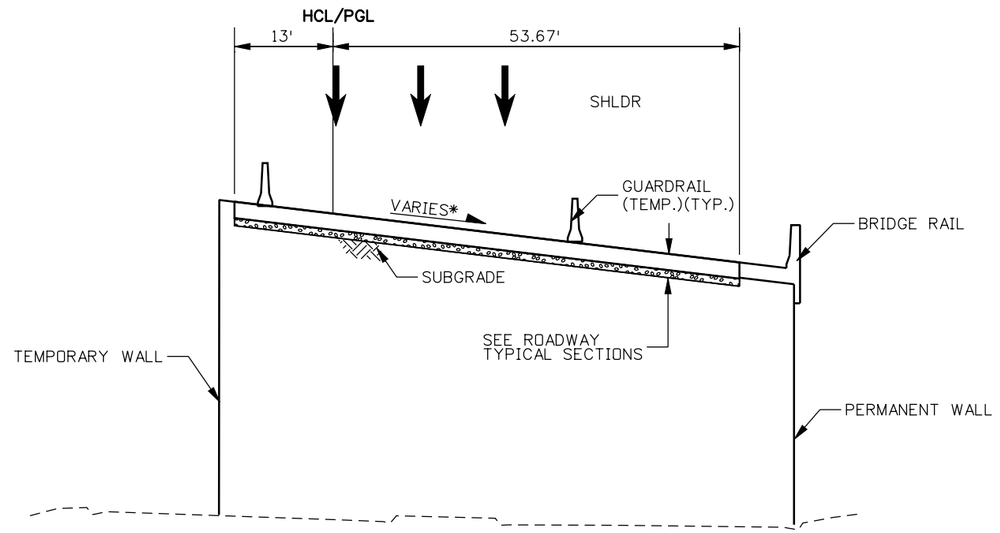
12/8/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

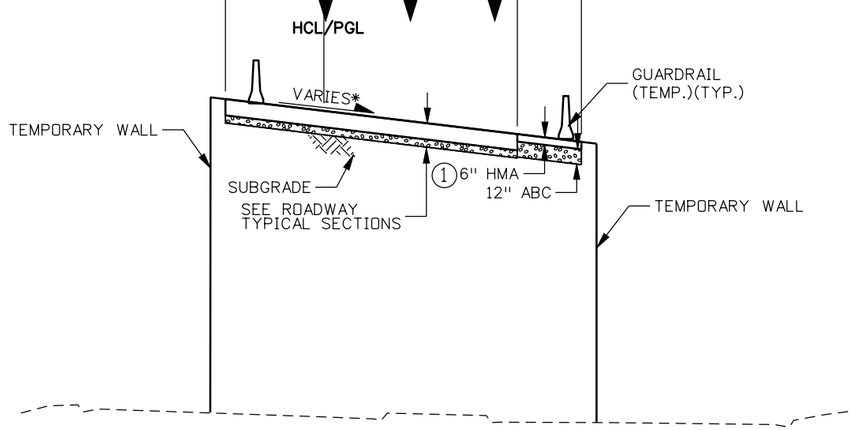
PHASE 2.B.1
SB I-25 CROSS OVER DETOUR 1 SOUTH OF BRIDGE (I-25 OVER SANTA FE)



STA. 230+64.57 TO STA. 231+92.86
TEMPORARY STRUCTURE **



DETOUR STA. 233+51.23 TO STA. 234+18.99
= NB I-25 STA: 1629+98.00 TO STA. 1630+59.22



DETOUR STA. 231+92.86 TO STA. 233+51.23
= NB I-25 STA. 1628+33.09 TO STA. 1629+98.00

NOTE:
* SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITIONS.
** SEE TEMPORARY BRIDGE PLANS FOR MORE INFORMATION.
1 SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/8/2010	Sheet Revisions			Colorado Department of Transportation
File Name: 16311TRAF_PH2_Typ_Sect04A.dgn	Date:	Comments	Init.	2000 South Holly Street
Horiz. Scale: 1:20 Vert. Scale: As Noted	1/03/11	RE-ISSUED SHEET	JSC	Denver, CO 80222
Unit Information Unit Leader Initials				Phone: 303-972-9112 FAX: 303-972-9114
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 2 TYPICAL SECTIONS		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: JSC	Structure Numbers	17783
Void:	Detailer: ZV		
	Sheet Subset: TYPICAL	Subset Sheets: ST-09 of 39	Sheet Number 441 B

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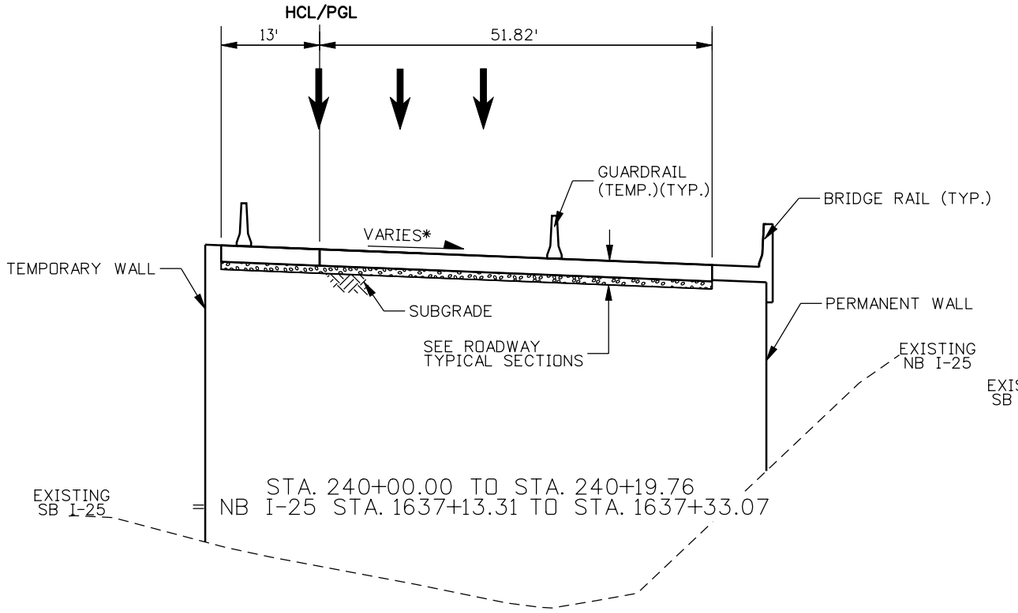
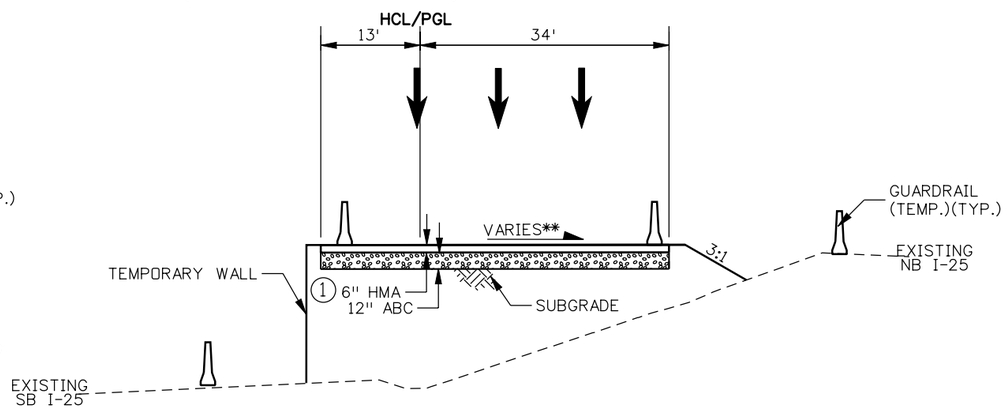
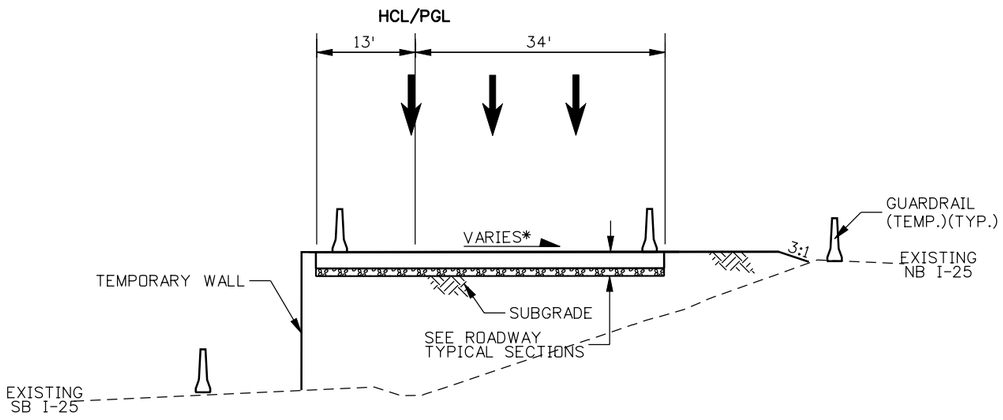
PHASE 2.B.1
SB I-25 CROSS OVER DETOUR 2 NORTH OF BRIDGE (I-25 OVER SANTA FE)



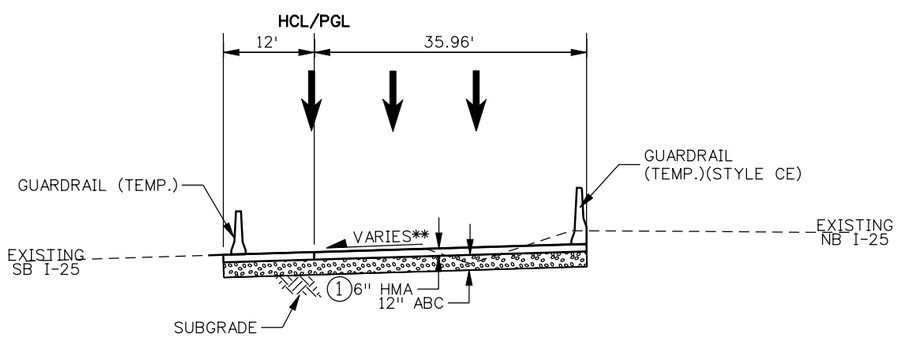
STA. 240+00.00 TO STA. 240+19.76
= NB I-25 STA. 1637+13.31 TO STA. 1637+33.07



STA. 240+66.86 TO STA. 245+10.74



STA. 240+19.76 TO STA. 240+66.86



STA. 245+10.74 TO STA. 248+48.35

NOTE:

* SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITIONS.

** SEE CROSS OVER DETOUR PROFILE FOR SUPERELEVATION TRANSITIONS.

(1) SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_Typ_Sect05.dgn
Horiz. Scale: 1:20 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions		
Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

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2000 South Holly Street
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Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 2 TYPICAL SECTIONS

Designer: JSC
Detailer: ZV
Sheet Subset: TYPICAL
Structure Numbers:
Subset Sheets: ST-10 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 442 B

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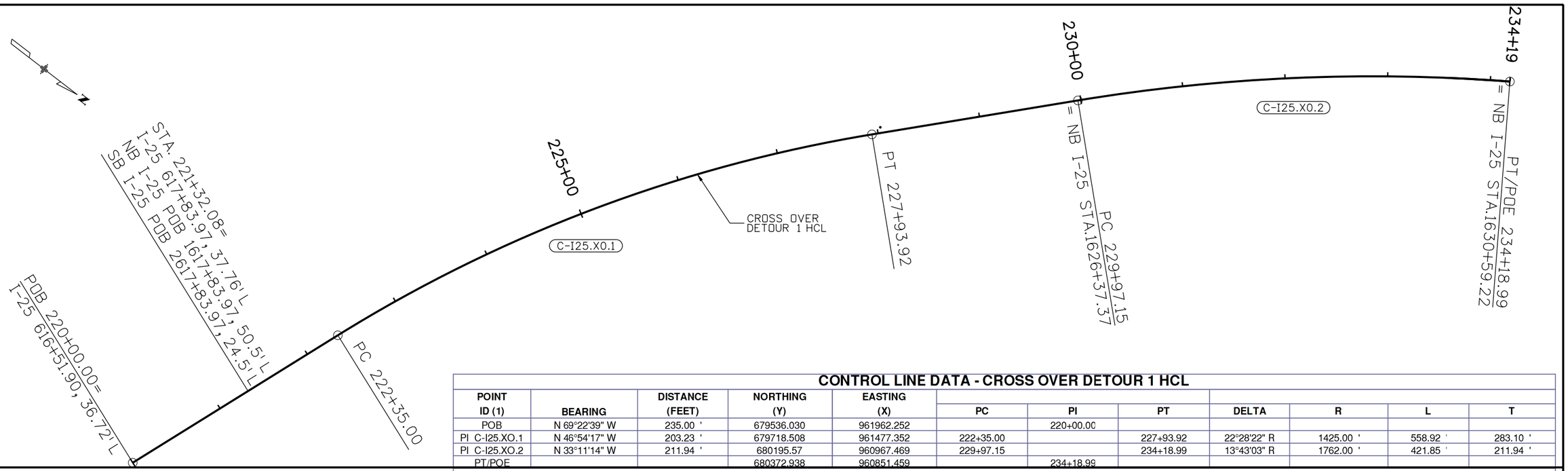
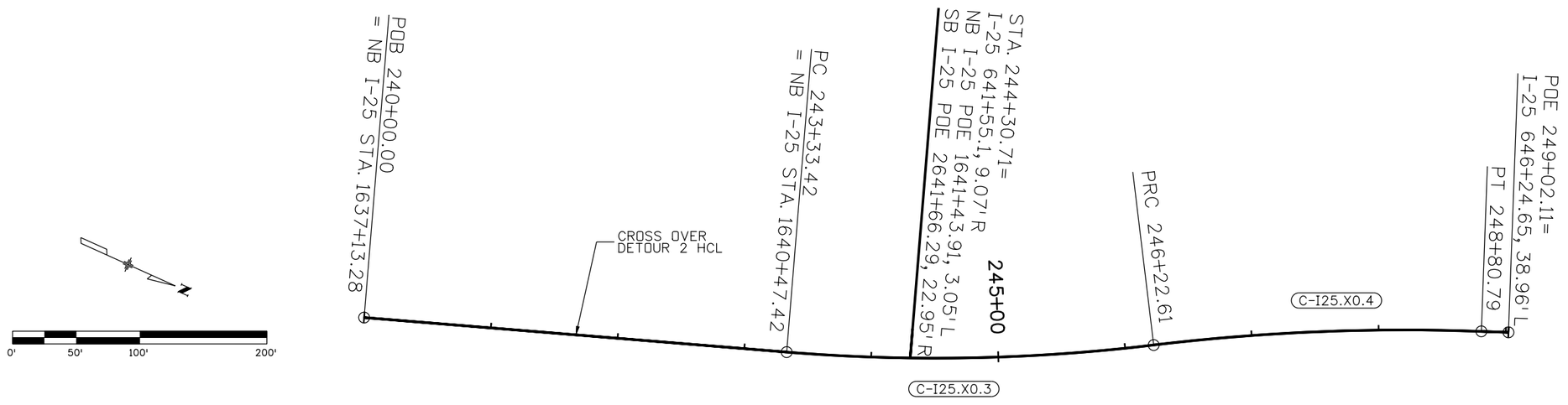


CONTROL LINE DATA - CROSS OVER DETOUR 1 HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 69°22'39" W	235.00 '	679536.030	961962.252		220+00.00					
PI C-I25.XO.1	N 46°54'17" W	203.23 '	679718.508	961477.352	222+35.00		227+93.92	22°28'22" R	1425.00 '	558.92 '	283.10 '
PI C-I25.XO.2	N 33°11'14" W	211.94 '	680195.57	960967.469	229+97.15		234+18.99	13°43'03" R	1762.00 '	421.85 '	211.94 '
PT/POE			680372.938	960851.459		234+18.99					

CONTROL LINE DATA - CROSS OVER DETOUR 2 HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 19°37'33" W	333.42 '	680968.845	960586.807		240+00.00					
PI C-I25.XO.3	N 31°11'03" W		681419.553	960426.089	243+33.42		246+22.61	11°33'31" L	1433.52 '	289.19 '	145.09 '
PI C-I25.XO.4	N 22°13'08" W	21.33 '	681654.34	960283.986	246+22.61		248+80.79	8°57'55" R	1649.97 '	258.18 '	129.35 '
POE			681793.831	960227.007		249+02.11					



Print Date: 12/8/2010	R-2 8000	Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_GeomPlan_Ph2Detour.dgn		Date:	Comments	Init.	DOT DEPARTMENT OF TRANSPORTATION 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE PHASE 2 DETOUR GEOMETRIC PLAN				Project No./Code
Designer: JSC	Structure Numbers			BR 0252-407
Detailer: SYS				17783
Sheet Subset: TRAFFIC	Subset Sheets: ST-10a of 39			Sheet Number 442a B

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12/8/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

PHASE 2 DETOUR HORIZONTAL CURVE DATA TABLE

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	DEGREE OF CURVE (degree)	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design) (percent)	SPEED (MPH)	STOPPING SIGHT DISTANCE (feet)	NOTE
SB I-25 CROSS OVER DETOUR 1									
C-I25.XO.1	22°28'22"	1425.00 '	4°01'15"	right	left	6.00	45.00	392.00	horizontal sight distance (temporary barrier location) controls speed
C-I25.XO.2	13°43'03"	1762.00 '	3°15'06"	right	left	6.00	45.00	372.00	horizontal sight distance (temporary barrier location) controls speed
SB I-25 CROSS OVER DETOUR 2									
C-I25.XO.3	11°33'31"	1433.52 '	3°59'49"	left	right	2.00	50.00	434.00	curve radius/adverse crown controls speed
C-I25.XO.4	8°57'55"	1649.97 '	3°28'21"	right	left	2.00	50.00	500.00	curve radius/adverse crown controls speed

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Print Date: 12/8/2010
File Name: 16311TRAF_PH2_GeomPlan_Detour2HorizCurveData.dgn
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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
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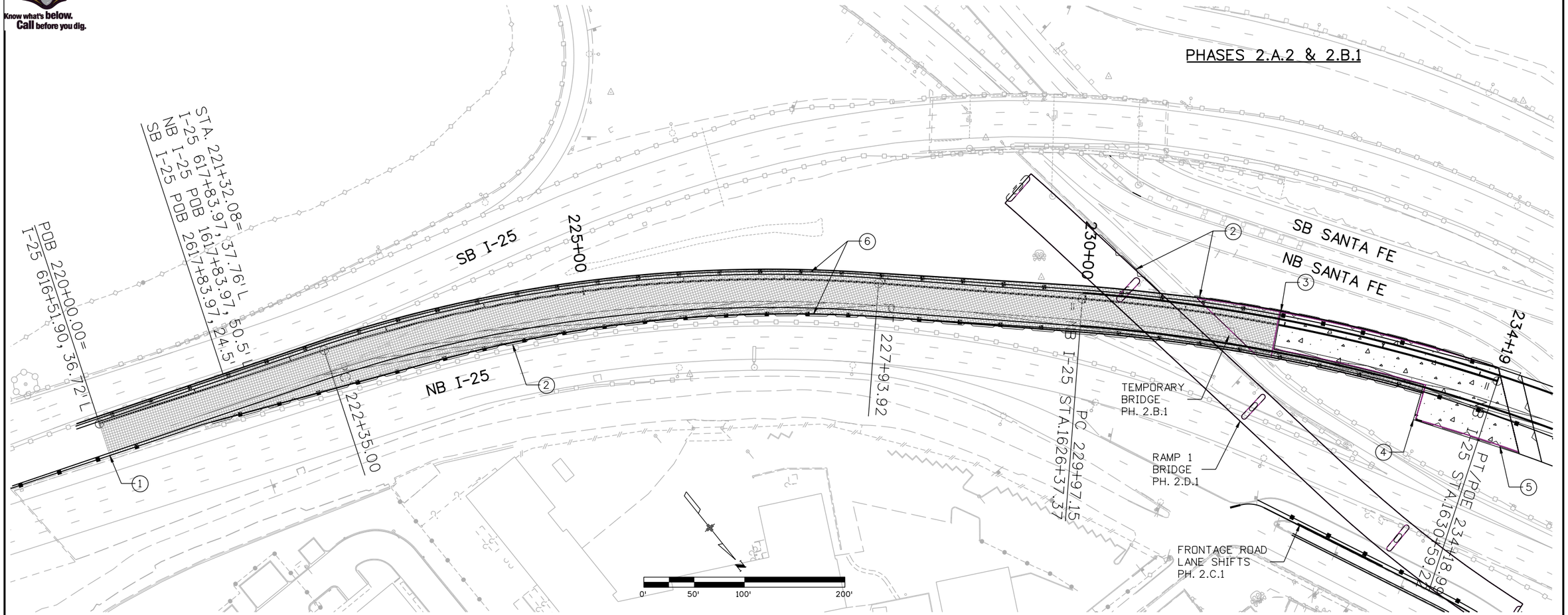
I-25/SANTA FE INTERCHANGE
PHASE 2 DETOUR
HORIZONTAL CURVE TABLE

Designer: JSC
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: ST-10b of 39

Project No./Code
BR 0252-407
17783
Sheet Number 442b B

Know what's below. Call before you dig.

PHASES 2.A.2 & 2.B.1



CONSTRUCTION NOTES:

1. BEGIN CROSSOVER DETOUR
   STA. 220+00.00
   WIDTH OF HMA PAVEMENT = 43'
2. TEMPORARY RETAINING WALLS
   (SEE RETAINING WALL PLANS)
3. BEGIN PERMANENT PAVEMENT SECTION
   STA. 231+92.87
   WIDTH OF PCC PAVEMENT = 38.5'
   WIDTH OF TEMPORARY HMA PAVEMENT = 8.5'
4. BEGIN FULL WIDTH PERMANENT PAVEMENT SECTION
   STA. 233+51.20
   WIDTH OF PCC PAVEMENT = 74'
5. PERMANENT RETAINING WALL
   (SEE RETAINING WALL PLANS)
6. GUARDRAIL (TEMP)
   (SEE CONSTRUCTION TRAFFIC CONTROL
   PLANS FOR MORE INFORMATION)

LEGEND:

- HMA PAVEMENT (SEE TYPICAL SECTIONS)
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)

Print Date: 12/8/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311TRAF_PH2_ST2_I-25_Plan01.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted	1/03/11 NEW SHEET JSC	Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
SB I-25 CROSS OVER DETOUR 1

Designer:	JSC	Structure Numbers	
Detailer:	ZV		
Sheet Subset:	PLAN	Subset Sheets: ST-10 of 39	

Project No./Code: BR 0252-407
17783
Sheet Number 442c B

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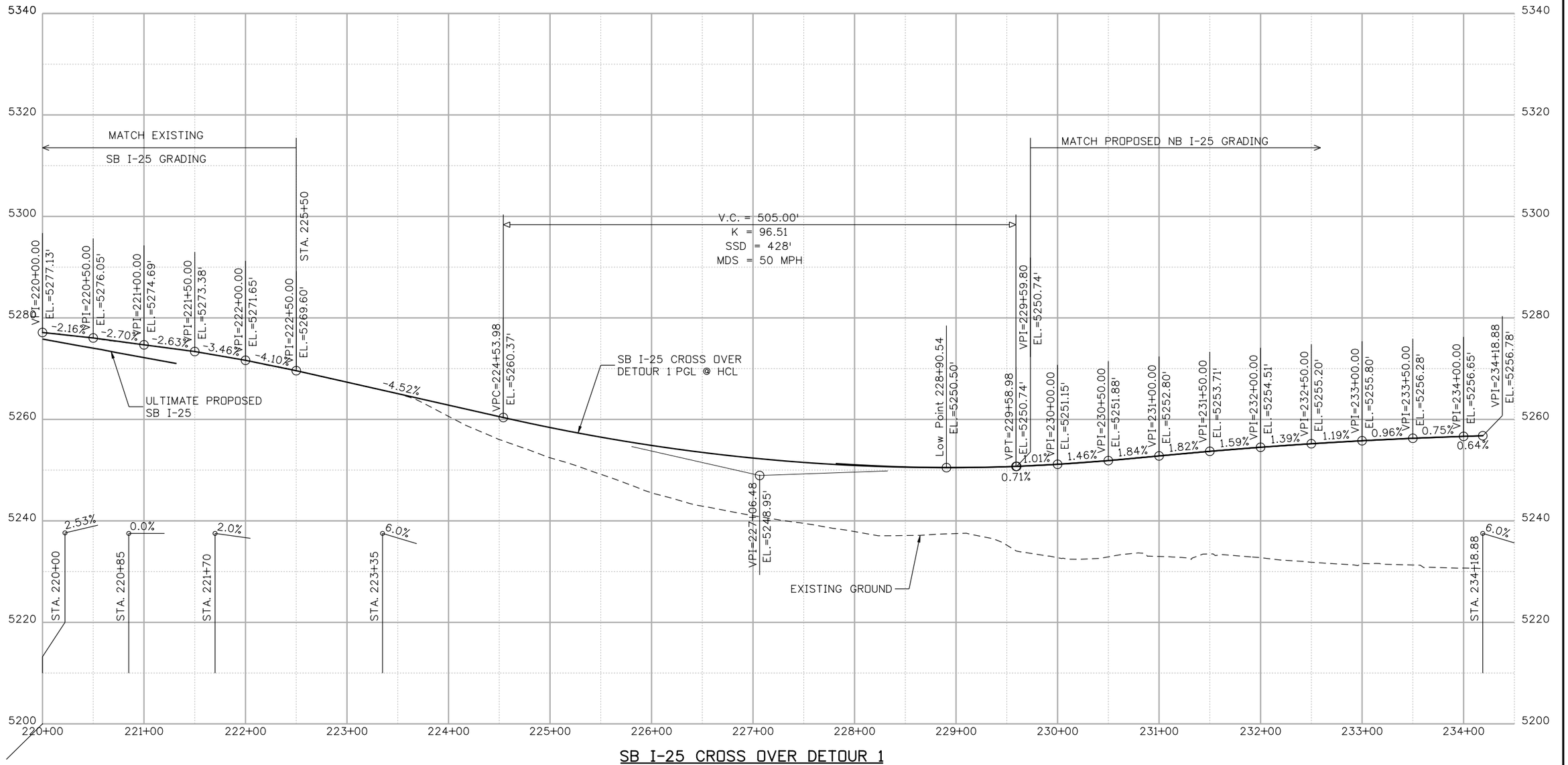

SB I-25 CROSS OVER DETOUR 1

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING X-OVER I-25 PROFILE	Project No./Code
File Name: 16311TRAF_PH2_ST2_ I-25_Prof01.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Structure Numbers:	17783
Unit Information Unit Leader Initials						Void:	Detailer: ZV / Sheet Subset: PROFILE / Subset Sheets: ST-10 of 39	Sheet Number 442d B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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12/8/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

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PHASES 2.A.2 & 2.B.1

POB 240+00.00
= NB I-25 STA. 1637+13.28

PC 243+33.42
= NB I-25 STA. 1640+47.42

STA. 244+30.71=
I-25 641+55.1, 9.07' R
NB I-25 POE 1641+43.91, 3.05' L
SB I-25 POE 2641+66.29, 22.95' L

245+00

PRC 246+22.61

POE 249+02.11=
I-25 646+24.65, 38.96' L

PT 248+80.79

RAMP 4

SB I-25

NB I-25

SANTA FE

SB SANTA FE

0' 50' 100' 200'

CONSTRUCTION NOTES:

1. BEGIN CONSTRUCT FULL WIDTH PERMANENT PAVEMENT SECTION STA. 240+00.00, 61.5' RT. & 13' LT.
2. END FULL WIDTH PCC PAVEMENT BEGIN CONSTRUCT 46' WIDE SEGMENT PCC PAVEMENT, STA. 240+19.76
3. END CONSTRUCT PERMANENT PAVEMENT BEGIN TEMPORARY HMA DETOUR PAVEMENT STA. 240+66.86, 34' RT. & 12' LT.
4. END 7' HMA SHOULDER BEGIN 8' HMA SHOULDER STA. 245+10.74, 30' RT. & 13' LT.
5. END HMA DETOUR PAVEMENT MATCH EXISTING PCC PAVEMENT STA. 247+53.13, 30' RT. & 13' LT.
6. TEMPORARY RETAINING WALL (SEE RETAINING WALL PLANS)
7. GUARDRAIL (TEMP) (SEE CONSTRUCTION TRAFFIC CONTROL PLANS FOR MORE INFORMATION)
8. PERMANENT RETAINING WALLS (SEE RETAINING WALL PLANS)

LEGEND:

- HMA PAVEMENT (SEE TYPICAL SECTIONS)
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING X-OVER I-25 PLAN	Project No./Code
File Name: 16311TRAF_PH2_ST2_I-25_Plan02.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Detailer: ZV / Sheet Subset: PLAN	17783
Unit Information Unit Leader Initials						Void:	Structure Numbers / Subset Sheets: ST-10 of 39	Sheet Number 442e B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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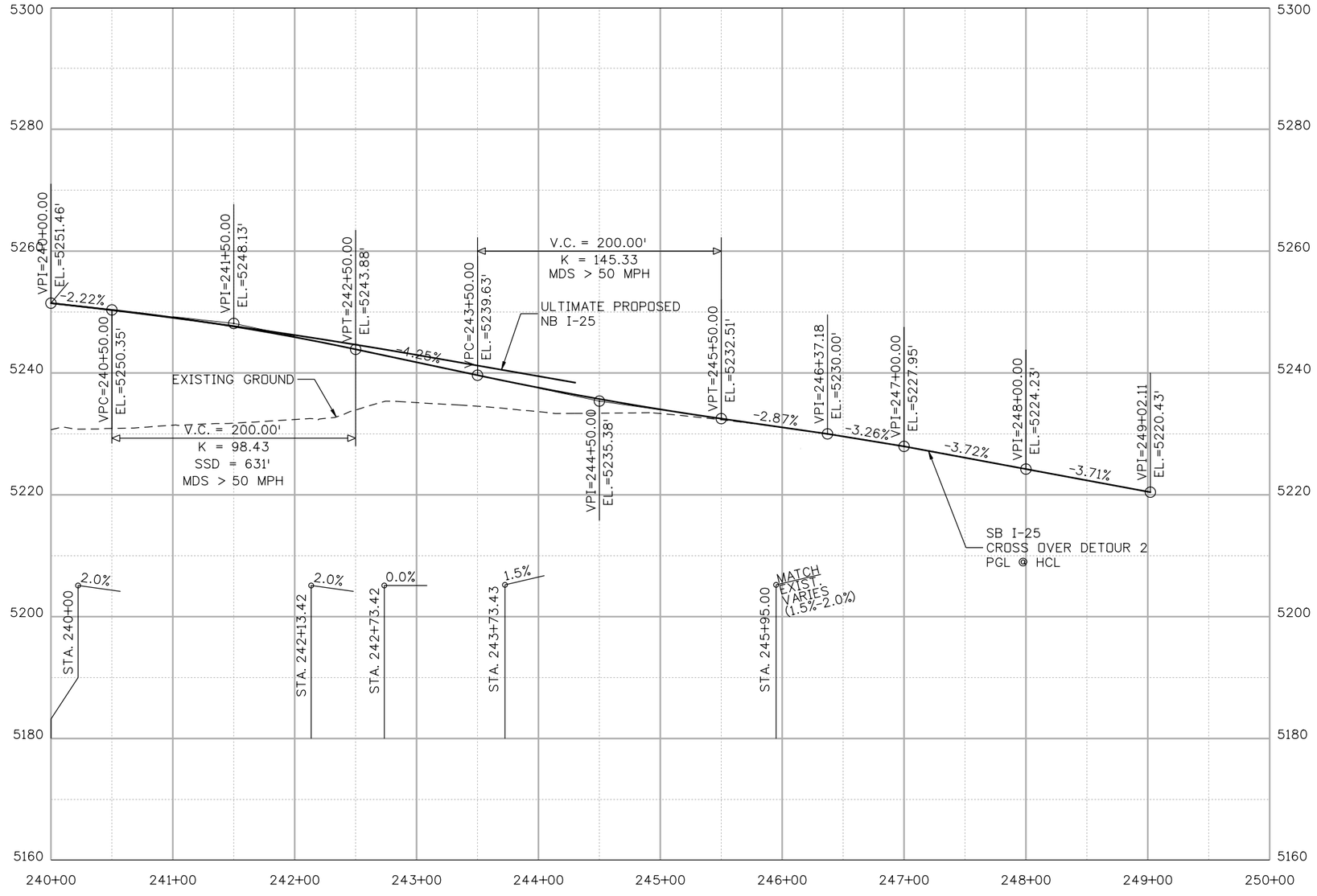

SB I-25 CROSS OVER DETOUR 2

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING X-OVER I-25 PROFILE	Project No./Code
File Name: 16311TRAF_PH2_ST2_ I-25_Prof02.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Detailer: ZV / Sheet Subset: PROFILE	17783
Unit Information Unit Leader Initials						Void:	Structure Numbers	Sheet Number 442f B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Subset Sheets: ST-10 of 39	

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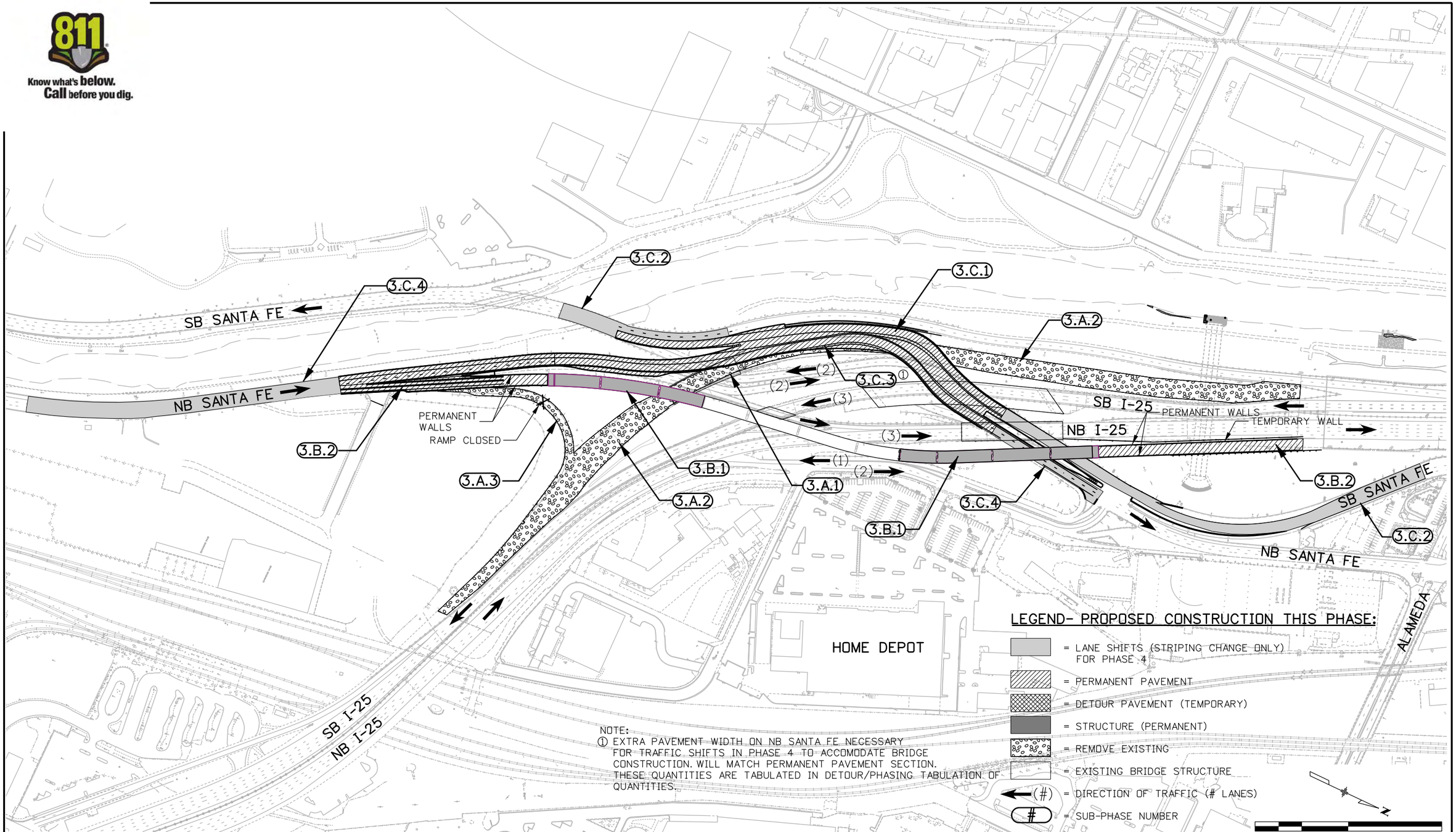
Know what's below. Call before you dig.



NOTE:
① EXTRA PAVEMENT WIDTH ON NB SANTA FE NECESSARY FOR TRAFFIC SHIFTS IN PHASE 4 TO ACCOMODATE BRIDGE CONSTRUCTION. WILL MATCH PERMANENT PAVEMENT SECTION. THESE QUANTITIES ARE TABULATED IN DETOUR/PHASING TABULATION OF QUANTITIES.

Print Date: 10/19/2010	
File Name: 16311TRAF_PH2_ST3_Plan01.dgn	
Horiz. Scale: 1:300	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
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Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 3

Designer:	JSC	Structure Numbers	
Detailer:	ZV		
Sheet Subset:	TRAFFIC	Subset Sheets:	ST-11 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 443

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CONSTRUCTION PHASING NOTES

Phase 3: Construct Ramp 1 & Prepare for SB I-25 Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
3.A	Demo Existing SB I-25 Thru Project Area			
3.A.1	Remove existing SB I-25 over Santa Fe Bridge Structure.	Refer to Bridge Demolition Plans for Information.	Phase 3 I-25 TCP	Impact to traffic on Santa Fe Detours
3.A.2	Remove existing SB I-25 Pavement between Broadway Structure and the new I-25 at Alameda paving.		Phase 3 I-25 TCP	
3.A.3	Remove existing NB Santa Fe to SB I-25 Ramp.		NB Santa Fe to SB I-25 Area Detour Plan	
3.B	Construct Ramp 1			
3.B.1	Construct remaining portions of Ramp 1 Bridge	Refer to Ramp 1 Bridge Plans for this Construction.	Phase 3.C.2/3.C.3/3.C.4 Santa Fe TCP/ Phase 3 I-25 TCP	Impact to traffic on NB I-25, SB I-25 Detour, Santa Fe Ave and the Frontage Road.
3.B.2	Construct Ramp 1 roadway approaches & associated retaining walls, some permanent wall and some temporary wall will be constructed.	Refer to Roadway Plans, Jointing Plans and Retaining Wall Plans for this Construction.	Phase 3 I-25 TCP	Impact to traffic on NB I-25, Santa Fe Ave and the Frontage Road.
3.C	Construct Santa Fe in its Final Stage 1.3 Configuration			
3.C.1.1	Roadway grading (excavation) required for construction of SB Santa Fe lanes.	Refer to Roadway Plans & Phasing Typical Sections for this Construction. This Phase will require excavation of Existing SB I-25 Embankement	Phase 3.C.1 Santa Fe TCP	
3.C.1.2	Construct SB Santa Fe lanes.	Refer to Roadway Plans & Phasing Typical Sections for this Construction.	Phase 3.C.1 Santa Fe TCP	Impacts to SB Santa Fe traffic during construction which ties the new alignment to the existing lanes of SB Santa Fe
3.C.2	Shift traffic from SB Santa Fe Detour to newly constructed SB Santa Fe	Refer to Roadway Plans & Phasing Typical Sections for this Construction.	Phase 3.C.2/3.C.3 Santa Fe TCP	Impact to SB Santa Fe traffic.
3.C.3.1	Roadway grading required for construction of NB Santa Fe Lanes as well as a portion of the grading required for future construction of Ramp 3.	Refer to Roadway Plans & Phasing Typical Sections for this Construction.	Phase 3.C.2/3.C.3 Santa Fe TCP	
3.C.3.2	Construct NB Santa Fe lanes including some additional pavement for a NB Santa Fe Traffic detour during Phase 4.	Refer to Roadway Plans for Construction of the NB Santa Fe Alignment. Refer to Phasing Plans and PhasingTypical Sections for information regarding the additional pavement widths, limits, etc.	Phase 3.C.2/3.C.3 Santa Fe TCP	Impacts to NB Santa Fe traffic during construction which ties the new alignment to the existing lanes of NB Santa Fe.
3.C.4.1	Shift traffic from NB Santa Fe Detour to newly constructed lanes	Note that NB Santa Fe pavement is constructed in its final configuration, but the NB Lanes are shifted to avoid construction of the SB I-25 over Santa Fe Bridge Structure. See Detour Plans for striping information.	Phase 3.C.4 Santa Fe TCP	Impact to NB Santa Fe traffic.
3.C.4.2	Remove NB Santa Fe and SB Santa Fe Detour Pavement constructed in		Phase 3.C.4 Santa Fe TCP	
3.D	Ramp 1			
3.D.1	Close existing NB Santa Fe to NB I-25 Ramp & switch traffic to new Ramp 1 alignment.		Phase 4 I-25 TCP	

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Print Date: 12/8/2010
File Name: 16311TRAF_PH2_Const.Phasing_Notes03.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
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Region 6 RLB

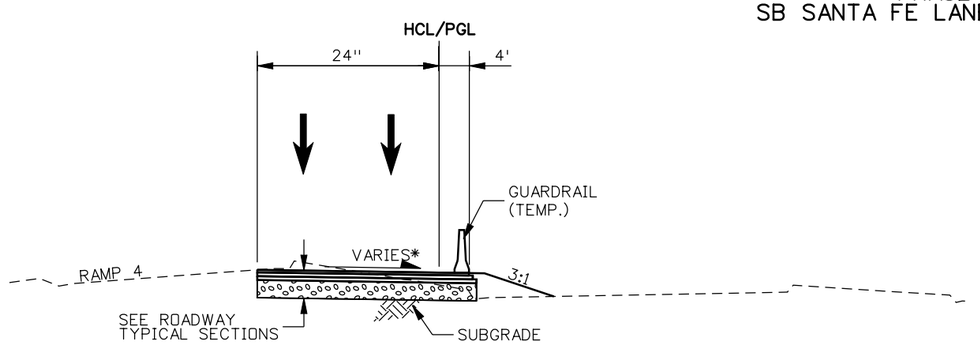
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 3

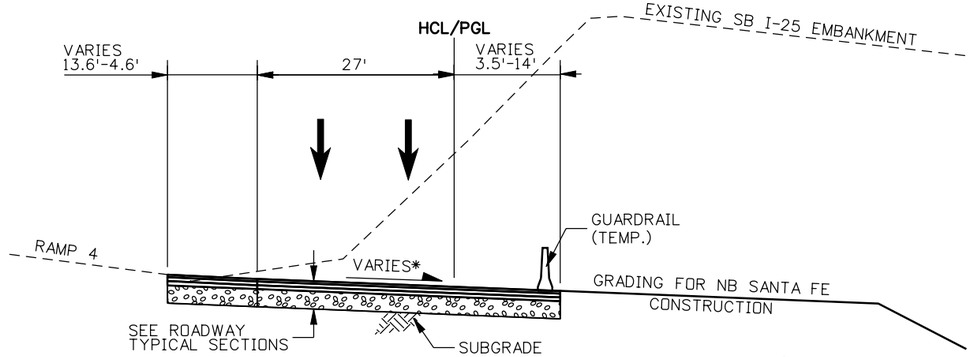
Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-12 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 444 B

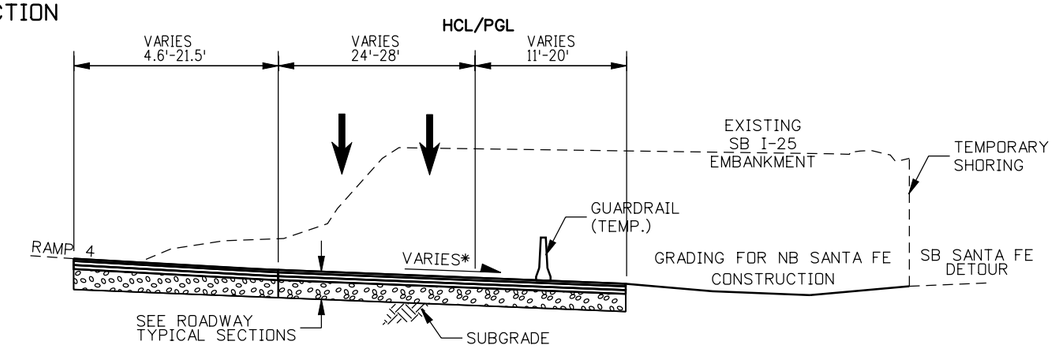
PHASE 3.C.1
SB SANTA FE LANE CONSTRUCTION



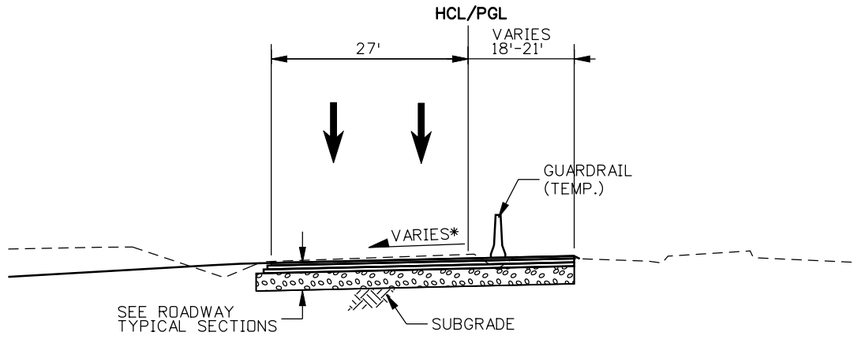
STA. 805+00.00 TO STA. 808+80.44



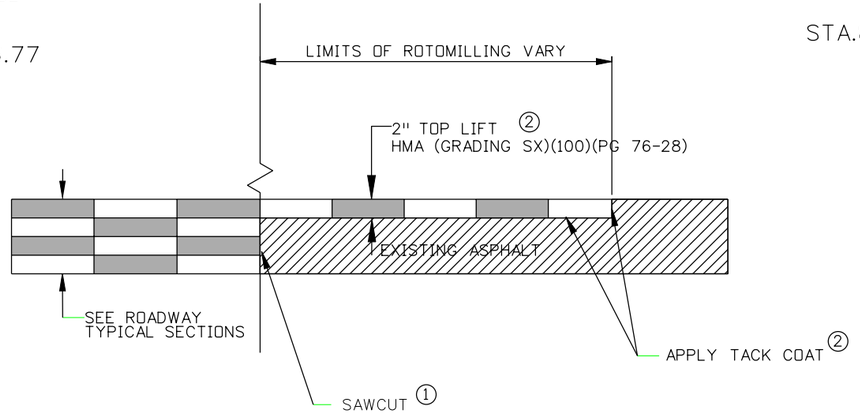
STA. 808+80.44 TO STA. 814+06.77



STA. 814+06.77 TO STA.816+10.53



STA.816+10.53 TO STA. 818+42.21



PROJECT APPROACH HMA PATCH DETAIL NOT TO SCALE

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

① SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALT MAT (PLANNING).

② TACK COAT & HMA (GRSX)(100)(PG76-28) INCLUDED IN THE ITEM HMA (PATCHING)(ASPHALT).

EXISTING SB SANTA FE BRIDGE OVER S. PLATTE RIVER TO P.O.B. STA. 805+00.00
STA. 818+42.21 TO STA. 822+33.54

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 3 TYPICAL SECTIONS	Project No./Code
File Name: 16311TRAF_PH2_Typ_Sect06.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Structure Numbers	17783
Unit Information Unit Leader Initials						Void:	Detailer: ZV / Sheet Subset: TYPICAL / Subset Sheets: ST-13 of 39	Sheet Number 445 B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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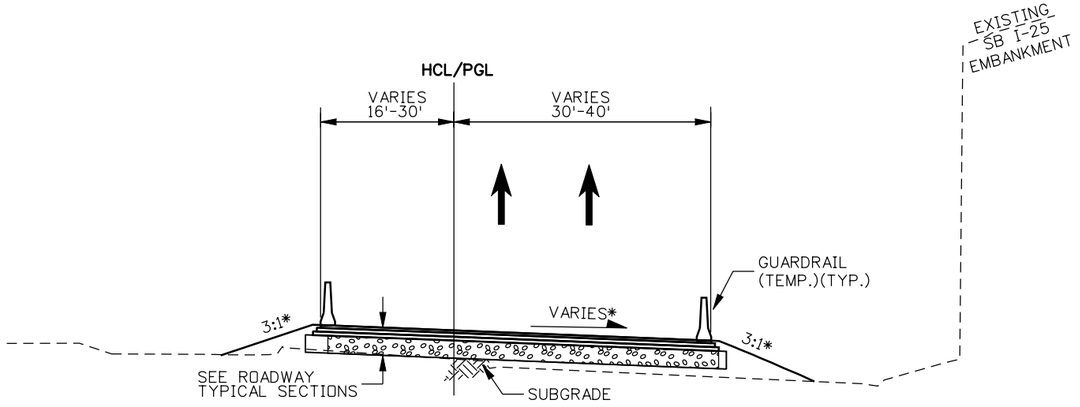
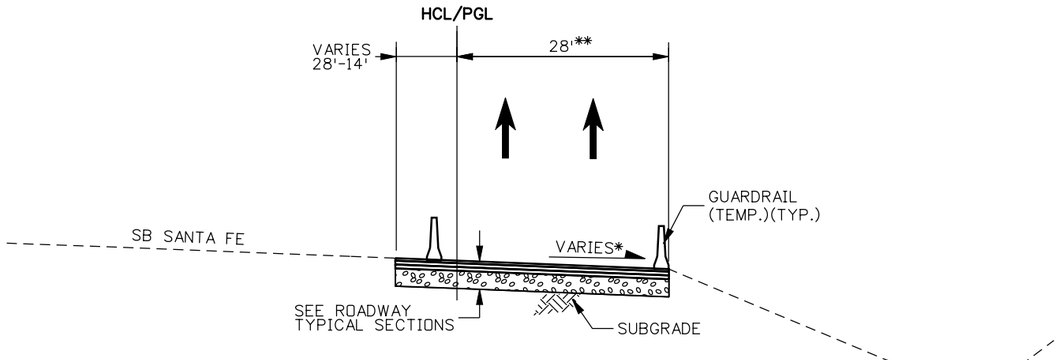
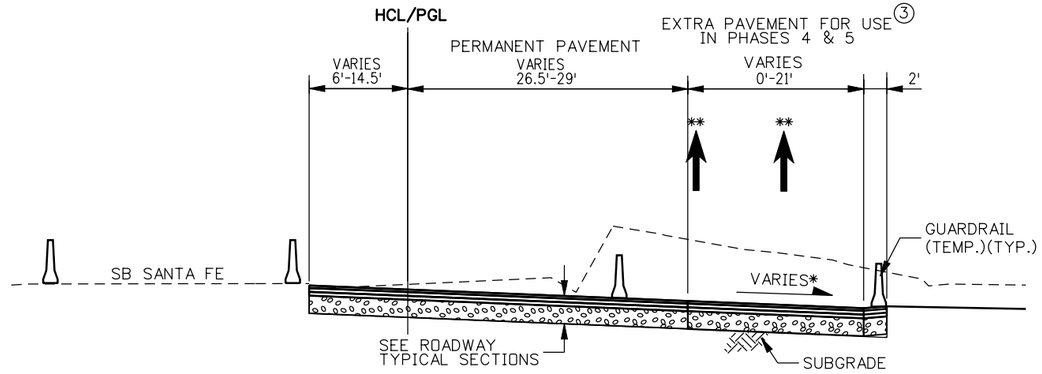
PHASE 3.C.3
NB SANTA FE LANE CONSTRUCTION



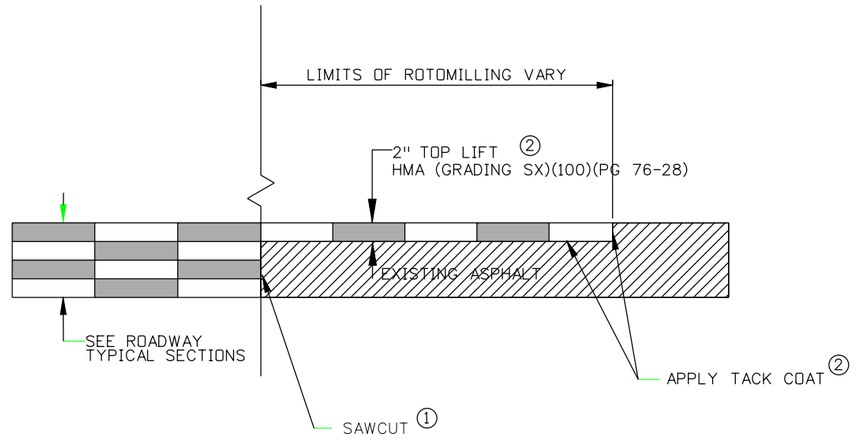
STA. 721+52.54 TO STA. 725+31.77



STA. 725+31.77 TO STA. 730+19.66



STA. 730+19.66 TO STA.734+71.79



HMA PATCH DETAIL NOT TO SCALE

STA. 712+27.54 TO STA. 712+52.54
STA. 734+71.79 TO STA. 738+62.52

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

** SEE DETOUR PLAN FOR NB SANTA FE LANEAGE GEOMETRY TO BE USED DURING PHASE 4 & 5.

① SAW CUTTING TO BE INCLUDED IN THE ITEM REMOVAL OF ASPHALT MAT (PLANNING).

② TACK COAT & HMA (GRSX)(100)(PG76-28) TO BE INCLUDED IN THE ITEM (PATCHING)(ASPHALT).

③ PAVEMENT SECTION SHALL MATCH NB SANTA FE PERMANENT PAVEMENT. QUANTITIES FOR EXTRA PAVEMENT ARE TABULATED IN DETOUR/ PHASING TABULATION OF QUANTITIES AND SHALL BE INCLUDED IN THE ITEM HMA (GRS)(100)(PG64-22), HMA (GRSX)(100)(PG76-28), AND ABC (CLASS 6) ACCORDINGLY.

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_Typ_Sect07.dgn
Horiz. Scale: 1:20 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 3 TYPICAL SECTIONS

Designer: JSC
Detailer: ZV
Sheet Subset: TYPICAL
Structure Numbers
Subset Sheets: ST-14of 39

Project No./Code
BR 0252-407
17783
Sheet Number 446 B

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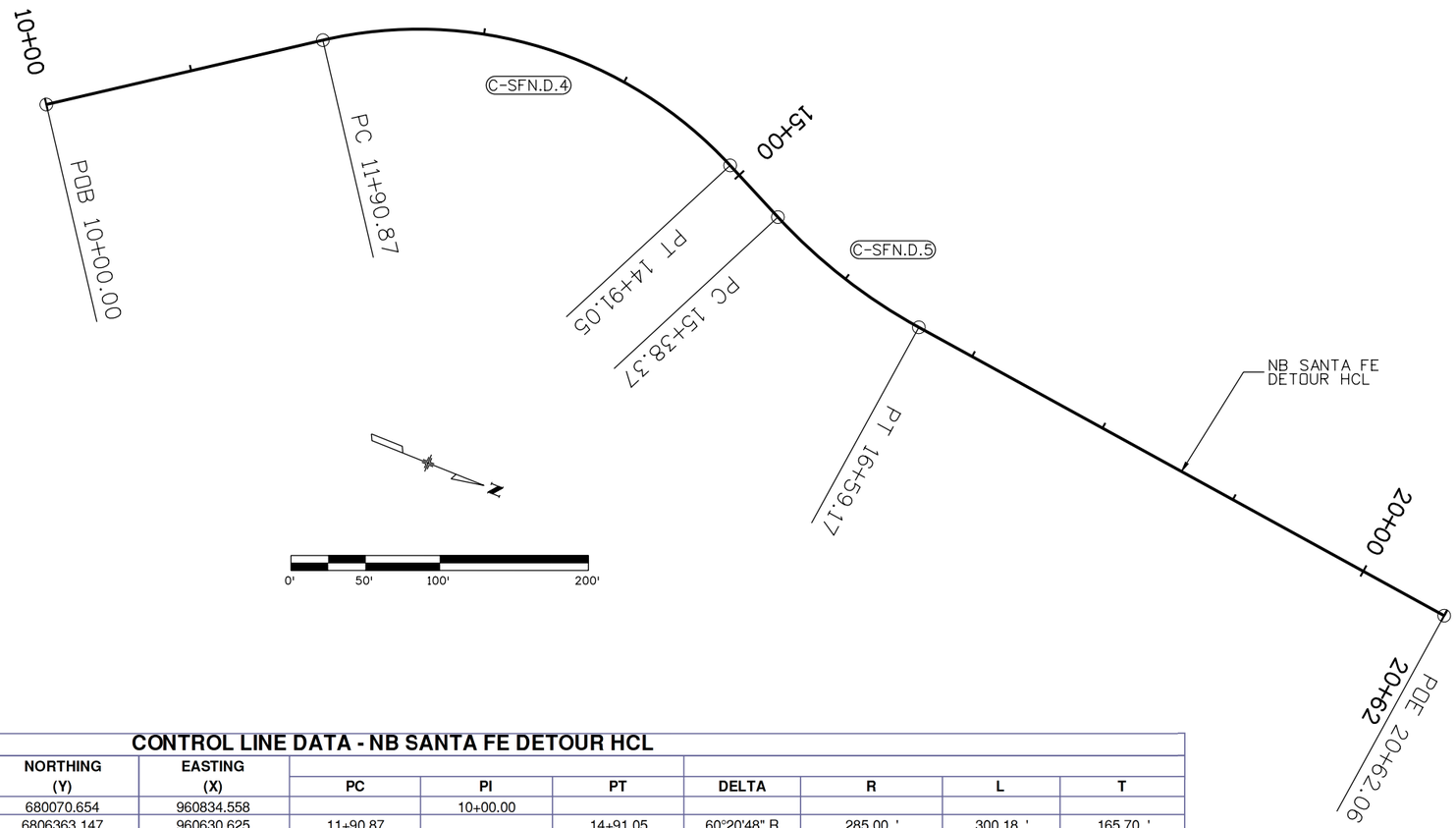

CONTROL LINE DATA - NB SANTA FE DETOUR HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 34°53'06" W	190.87 '	680070.654	960834.558		10+00.00					
PI C-SFN.D.4	N 25°27'42" E	47.32 '	6806363.147	960630.625	11+90.87		14+91.05	60°20'48" R	285.00 '	300.18 '	165.70 '
PI C-SFN.D.5	N 6°57'19" E	402.89 '	680610.491	960748.400	15+38.37		16+59.17	18°30'23" L	374.00 '	120.80 '	60.93 '
POE			681070.895	960804.566		20+62.06					

CURVE	CENTRAL ANGLE	RADIUS AT HCL	DEGREE OF CURVE	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design)	SPEED	STOPPING SIGHT DISTANCE	NOTE
	(degree)	(feet)	(degree)			(percent)	(MPH)	(feet)	
NB SANTA FE DETOUR									
C-SFN.D.4	60°20'48"	285.00	20°06'14"	right	right	2.00	25.00	160.00	horizontal sight distance (temporary barrier location) controls speed
C-SFN.D.5	18°30'23"	374.00	15°19'11"	left	left	2.00	25.00	240.00	curve radius/adverse crown controls speed

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_GeomPlan_Ph3Detour.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	NEW SHEET	JSC

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 3 DETOUR
GEOMETRIC PLAN

Designer: JSC
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: ST-14 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 446a B

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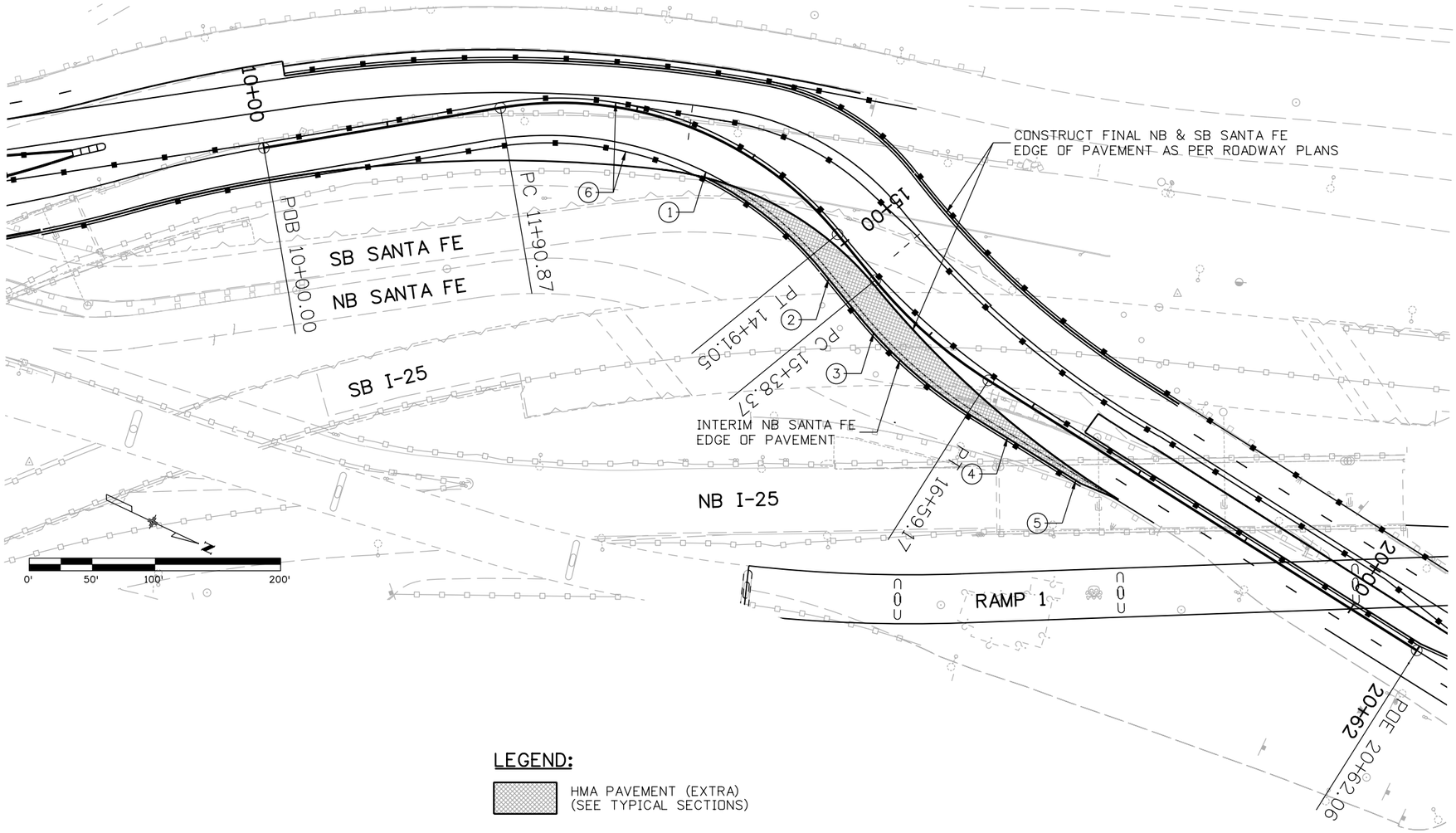
12/8/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

CONSTRUCTION NOTES:

1. BEGIN EXTRA HMA/PC RIGHT EOP
   STA. 13+74.56, 31.59' R, RAD= 281'
2. PT RIGHT EOP
   STA. 15+05.00, 28.0' R, RAD= 281'
3. PC RIGHT EOP
   STA. 15+50.66, 28.2' R, RAD= 378'
4. PT RIGHT EOP
   STA. 16+66.89, 30.94' R, RAD= 378'
5. END EXTRA HMA
   STA. 17+64.91, 30.3' R
   WIDTH OF PCC PAVEMENT = 74'
6. GUARDRAIL (TEMP)
   (SEE CONSTRUCTION TRAFFIC CONTROL PLANS FOR MORE INFORMATION).



LEGEND:

HMA PAVEMENT (EXTRA)
(SEE TYPICAL SECTIONS)

Print Date: 12/8/2010		Sheet Revisions	
File Name: 16311TRAF_PH2_ST3_NB SF_Plan01.dgn		Date:	Comments / Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET / JSC
Unit Information Unit Leader Initials			

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No Revisions:
Revised:
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I-25/SANTA FE INTERCHANGE
CONSTRUSTION PHASING
PHASE 3 NB SANTA FE

Designer: JSC
Detailer: ZV
Sheet Subset: PHASING
Structure Numbers:
Subset Sheets: ST-14b of 39

Project No./Code
BR 0252-407
17783
Sheet Number 446b B

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SB SANTA FE

NB SANTA FE

4.A.1

4.B.1

4.B.2

4.C.1

4.D.1

4.D.2①

4.E.1

4.E.2

4.E.3

RAMP CLOSED

PERMANENT WALL

PERMANENT WALL

TEMPORARY WALLS

TEMPORARY WALL

TEMPORARY SHORING

PERMANENT WALL

(1) (2) (3)

②

HOME DEPOT

ALAMEDA

SB I-25

NB I-25

NOTE:
① FOR RAMP 2 DETOUR, DETOUR PAVEMENT (TEMPORARY) INCLUDED IN THE ITEM DETOUR (SY).

② FOR SB I-25 CONSTRUCTION, DETOUR PAVEMENT (TEMPORARY) INCLUDED IN THE ITEM HMA (PATCHING)(ASPHALT).

LEGEND- PROPOSED CONSTRUCTION THIS PHASE:

= LANE SHIFTS (STRIPING CHANGE ONLY) FOR PHASE 5

= PERMANENT PAVEMENT

= DETOUR PAVEMENT (TEMPORARY)

= STRUCTURE (PERMANENT)

= REMOVE EXISTING

= EXISTING BRIDGE STRUCTURE

(#) = DIRECTION OF TRAFFIC (# LANES)

= SUB-PHASE NUMBER

0' 150' 300' 600'

Print Date: 10/19/2010
File Name: 16311TRAF_PH2_ST4_Plan01.dgn
Horiz. Scale: 1:300 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 4

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-15 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 447

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10/19/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

CONSTRUCTION PHASING NOTES

Phase 4: Construct Ramp 3, Portions of SB I-25 & Prep for NB I-25 Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
4.A	NB Santa Fe to NB I-25 Ramp (Original)			
4.A.1	Remove original ramp.		Phase 4 I-25 TCP	
4.B	Construct Portions of SB I-25			
4.B.1	Construct SB I-25 bridge structure & associated retaining walls.	See I-25 Bridge Plans & Retaining Wall Plans for this construction.	Phase 4 I-25 TCP	Impact to Santa Fe Ave traffic.
4.B.2.1	Roadway grading required for construction of SB I-25, and Ramp 3. Construct permanent retaining walls & temporary shoring for proposed SB I-25 pavement.	See Roadway Plans, Retaining Wall Plans, Detour Plans & Phasing Typical Sections for this construction.	Phase 4 I-25 TCP	
4.B.2.2	Construct portions of permanent SB I-25 pavement.	See Roadway Plans, Jointing Plans, Detour Plans & Phasing Typical Sections for this construction.	Phase 4 I-25 TCP	
4.C	Construct Ramp 3			
4.C.1	Final grading & construction of Ramp 3 pavement.	See Roadway Plans for this construction.	Phase 4 I-25 TCP	
4.D	Construct Ramp 2 Detour			
4.D.1.1	Roadway grading, construct portions of permanent retaining walls, & construct temporary retaining walls for Ramp 2.	See Roadway Plans, Profiles, Roadway Typical Sections, Phasing Typical Sections & Retaining Wall Plans for this construction. Application of panel facing to temporary retaining walls may require overnight closure of existing exit ramp.	Phase 4 I-25 TCP	Impact to NB I-25 & NB I-25 to Santa Fe Ave Ramp traffic & Frontage Road traffic.
4.D.1.2	Construct permanent pavment on top of final Ramp 2 grading.	See Phasing Typical Sections for this construction.	Phase 4 I-25 TCP	Impact to NB I-25 & NB I-25 to Santa Fe Ave Ramp traffic.
4.D.2.1	Roadway grading, construct temporary retaining walls for Ramp 2 Detour.	See Detour Plans, Profiles, Phasing Typical Sections & Retaining Wall Plans for this construction. Application of Panel Facing to temporary retaining walls may require overnight closure of existing exit ramp.	Phase 4 I-25 TCP	Impact to NB I-25 & NB I-25 to Santa Fe Ave Ramp traffic & Frontage Road traffic.
4.D.2.2	Construct temporary detour pavment on top of Ramp 2 Detour grading.	See Phasing Typical Sections for this construction.	Phase 4 I-25 TCP	Impact to NB I-25 & NB I-25 to Santa Fe Ave Ramp traffic.
4.E	Lane Shifts to Move SB I-25 Traffic and Accommodate Phase 5 Construction			
4.E.1	Re-Stripe SB I-25 on the North end of the project, shifting SB I-25 traffic to the newly constructed lanes.	Refer to Phasing Typical Sections for information.	Phase 5 I-25 TCP	Impact to SB I-25 traffic
4.E.2	Re-Stripe SB I-25 on the South end of the project, shifting SB I-25 traffic to the newly constructed lanes.	Refer to Phasing Typical Sections for information.	Phase 5 I-25 TCP	Impact to SB I-25 traffic
4.E.3	Re-Stripe NB I-25/Ramp 2 on the South end of the project, shifting Ramp 2 traffic to the temporary Ramp 2 Detour.	Refer to Phasing Typical Sections for information.	Phase 5 I-25 TCP	Impact to NB I-25 & NB I-25 to Santa Fe Ave Ramp traffic.

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R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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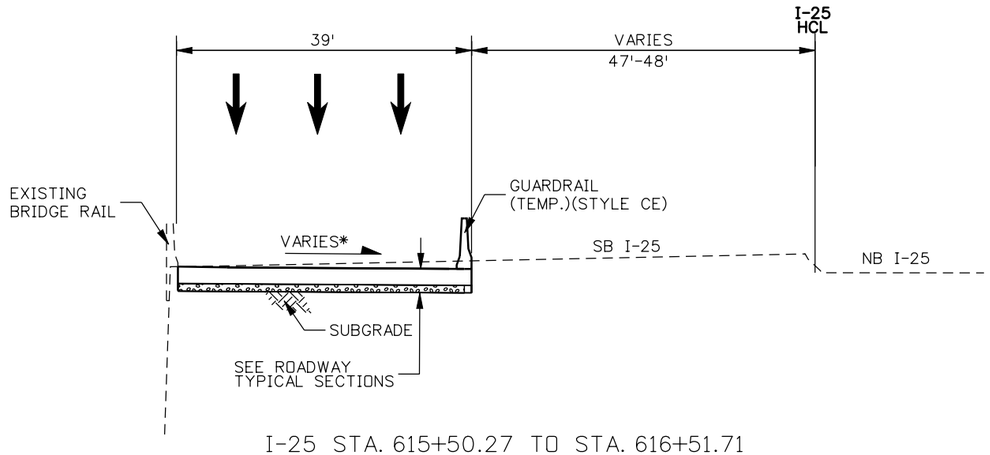
I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 4

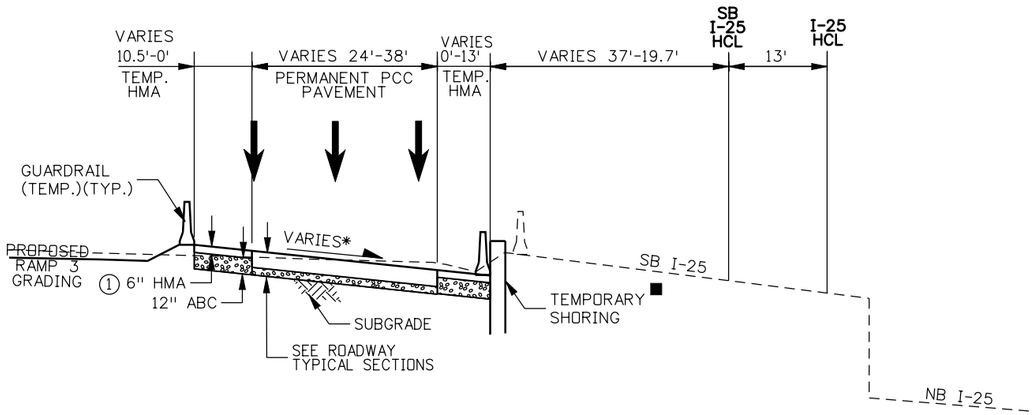
Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: ST-16 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 448 B

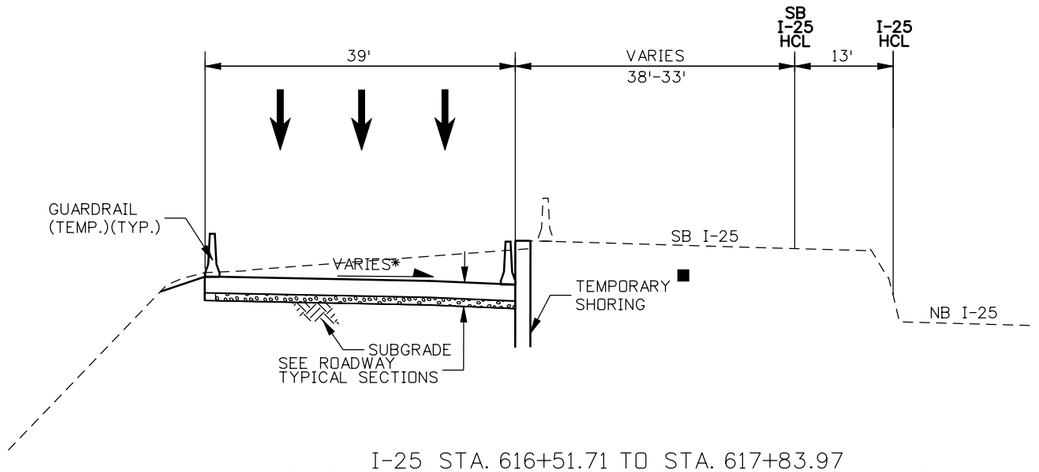
PHASE 4.B
SB I-25 CONSTRUCTION



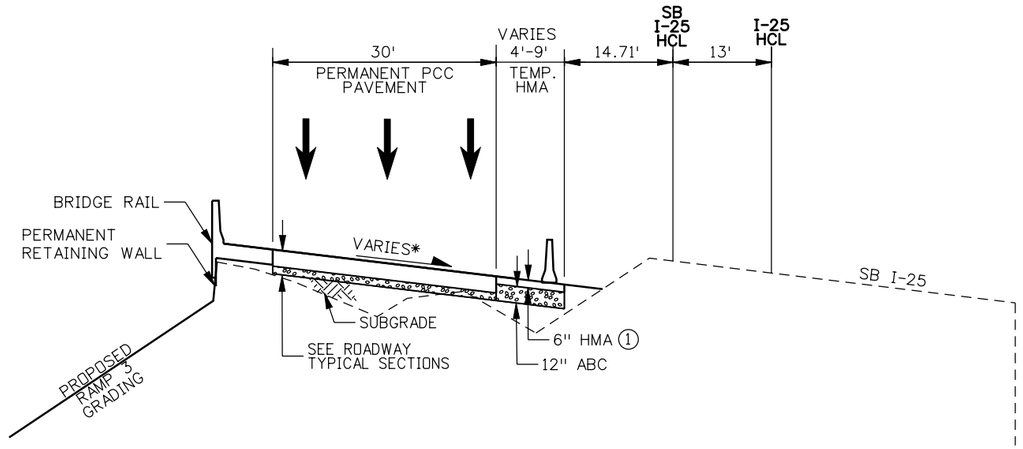
I-25 STA. 615+50.27 TO STA. 616+51.71



SB I-25 STA. 2620+24.43 TO STA. 2623+55.26



I-25 STA. 616+51.71 TO STA. 617+83.97
SB I-25 P.O.B. STA. 2617+83.97 TO STA. 2620+24.43



SB I-25 STA. 2623+55.26 TO STA. 2625+44.08

NOTE: * SEE ROADWAY PLANS, PROFILES & TYPICAL SECTIONS FOR MORE INFORMATION.

1 HMA (GRS)(100)(PG64-22) SHALL BE INCLUDED IN THE ITEM HMA (ASPHALT)(PATCHING). SEE HMA LIFT DETAILS FOR MORE INFORMATION.

■ SEE WALL PLANS FOR LIMITS OF SHORING.

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Unit Information Unit Leader Initials					Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 4 TYPICAL SECTIONS			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TYPICAL	Subset Sheets: ST-17 of 39		Sheet Number 449 B

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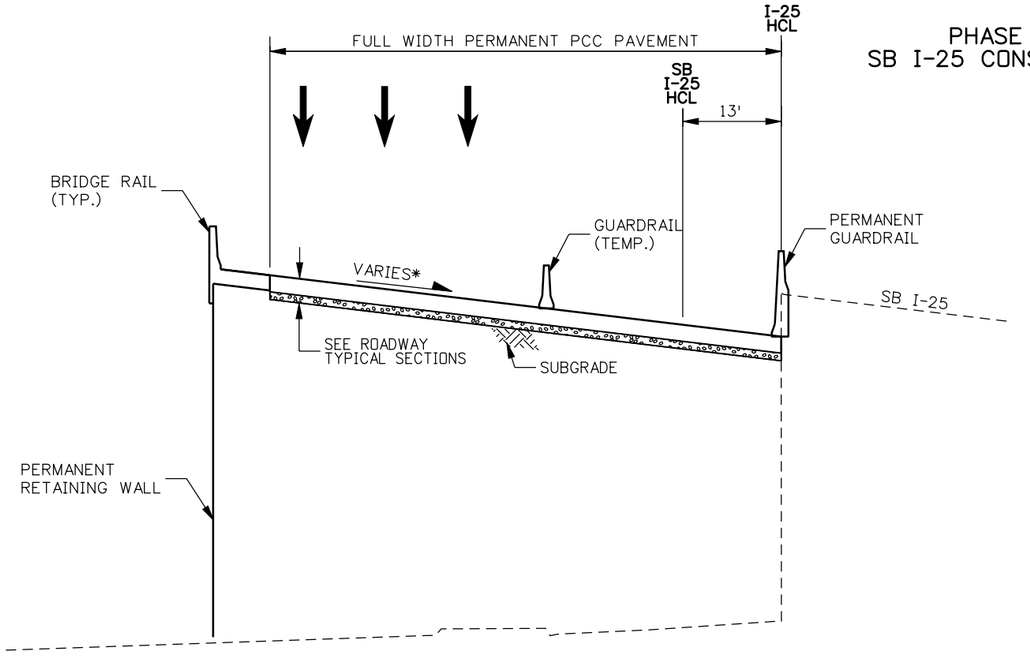
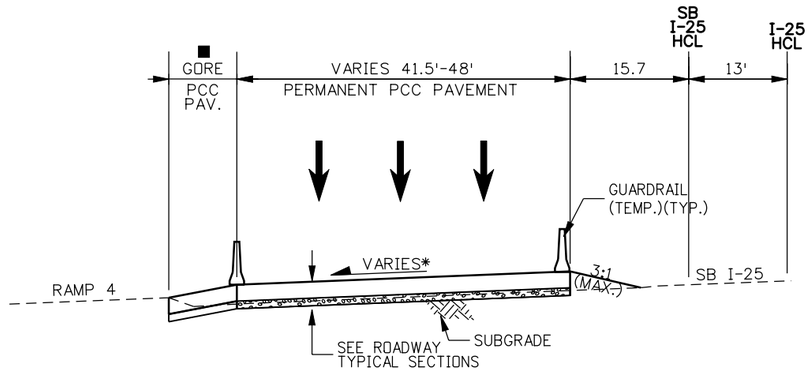
PHASE 4.B
SB I-25 CONSTRUCTION

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

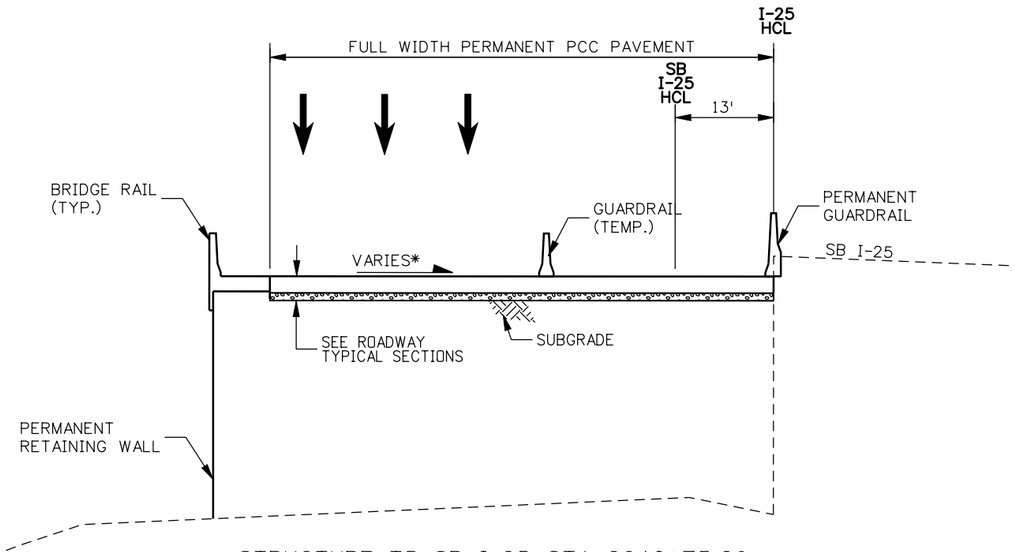


SB I-25 STA. 2625+44.08 TO STRUCTURE

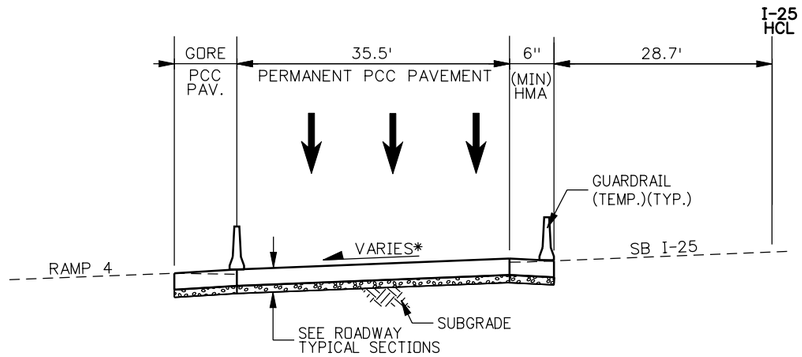


SB I-25 STA. 2640+73.29 TO P.O.E. STA. 2641+66.29
I-25 STA. 641+55.10 TO STA. 643+17.22

■ - RETAINING WALL, BRIDGE RAIL AND RAIL SLAB ARE PRESENT ON LEFT SIDE OF SECTION. FROM STA. 640+61.94 TO STA. 641+42.03; GORE AREA (PAVED) IS PRESENT BEYOND THAT POINT.



STRUCTURE TO SB I-25 STA. 2640+73.29



I-25 STA. 643+17.22 TO 644+75.00

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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 4 TYPICAL SECTIONS			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
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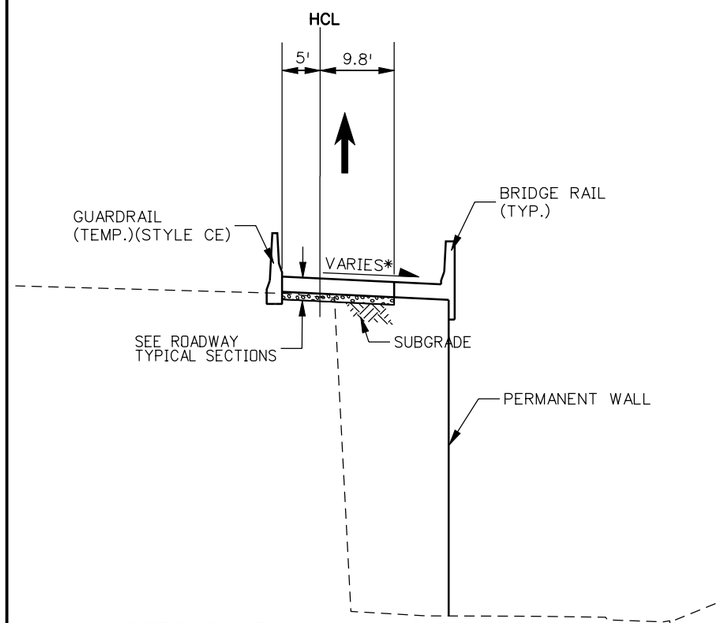
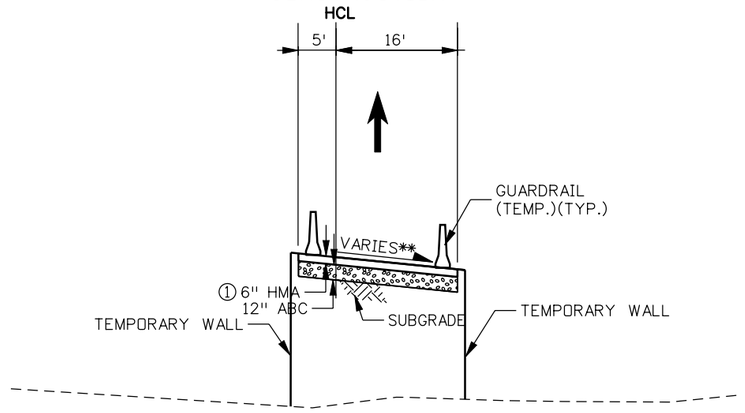
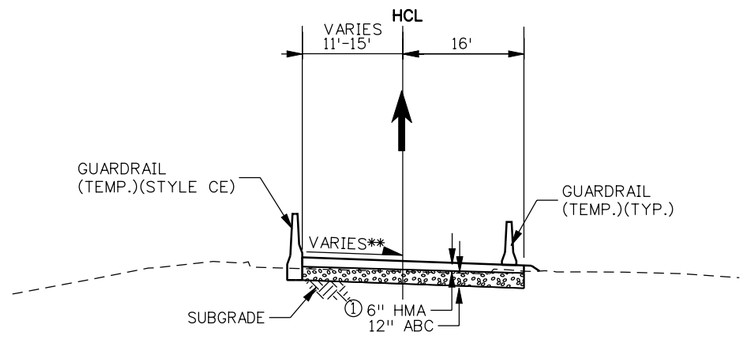
PHASE 4.D
RAMP 2 & RAMP 2 DETOUR CONSTRUCTION



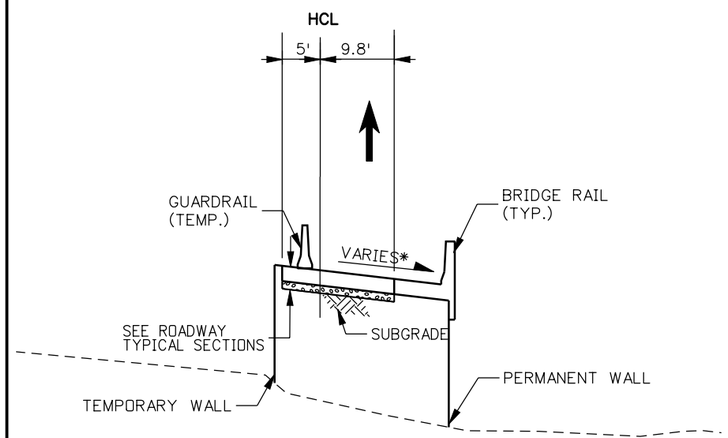
DETOUR STA. 200+00.00 TO STA. 204+42.98
=I-25 STA. 615+80.91 TO 617+83.97
=NB I-25 POB STA. 1617+83.97 TO NB I-25 STA. 1619+37.90



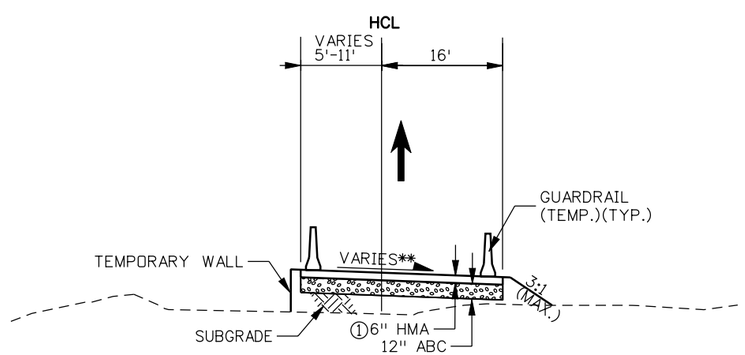
DETOUR STA. 207+58.10 TO STA. 210+20.07



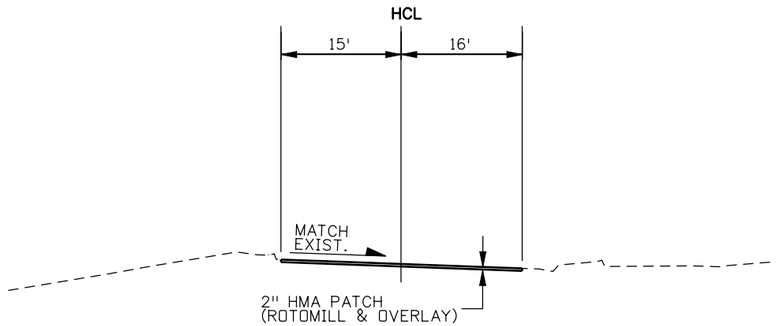
STA. 210+53.40 TO STA. 211+46.84



DETOUR STA. 204+42.98 TO STA. 207+58.10
=NB I-25 STA. 1619+37.90 TO STA. 1619+60.15
=RAMP 2 P.O.B STA. 200+00.00 TO STA. 203+76.19



DETOUR STA. 210+20.07 TO STA. 210+53.40



STA. 211+46.84 TO STA. 211+52.75

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.
** SEE RAMP 2 DETOUR PROFILE FOR SUPERELEVATION TRANSITION INFORMATION.
① SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/8/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 4 TYPICAL SECTIONS	Project No./Code
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Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Structure Numbers:	17783
Unit Information Unit Leader Initials						Void:	Detailer: ZV / Sheet Subset: TYPICAL / Subset Sheets: ST-19 of 39	Sheet Number 451 B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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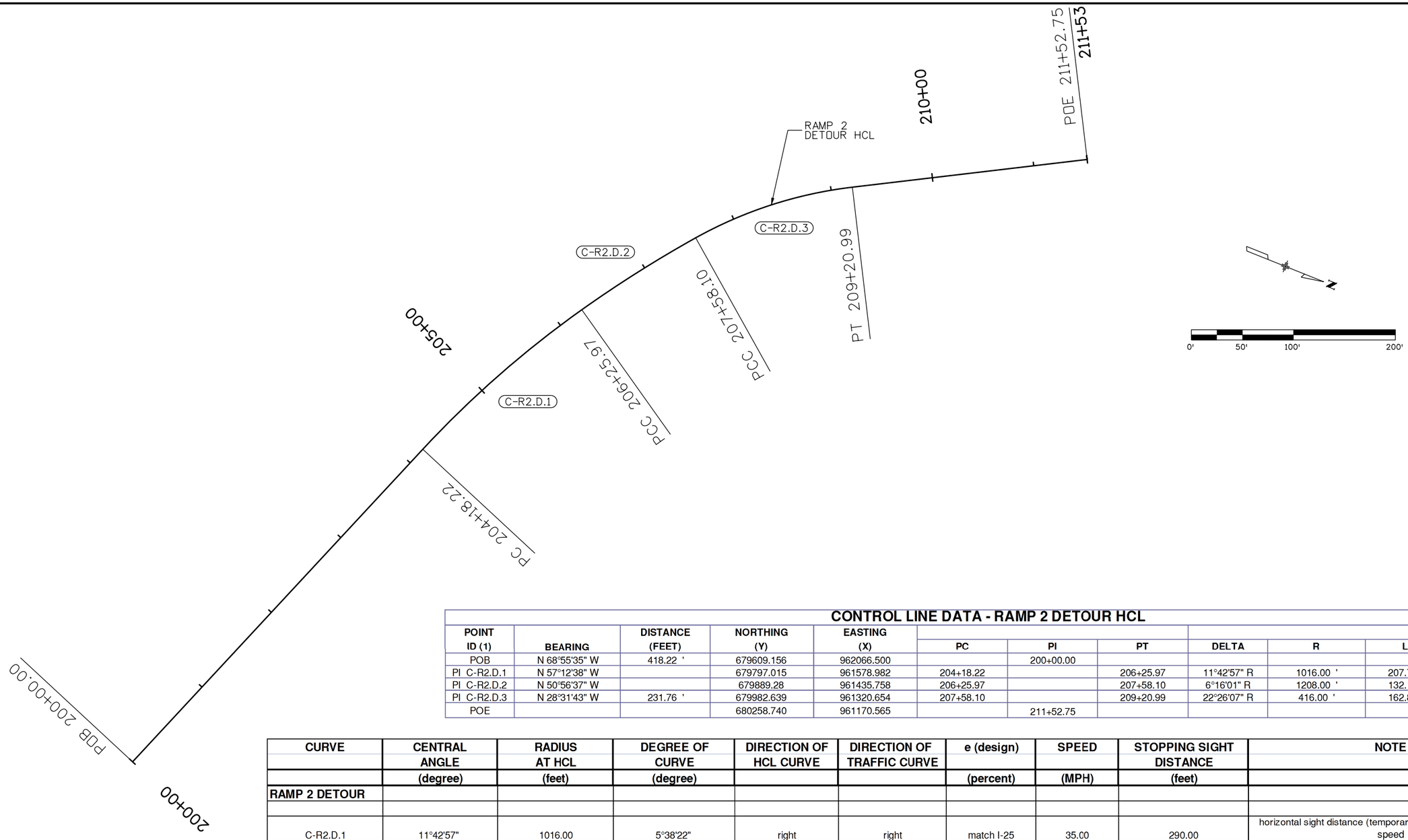

CONTROL LINE DATA - RAMP 2 DETOUR HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 68°55'35" W	418.22 '	679609.156	962066.500		200+00.00					
PI C-R2.D.1	N 57°12'38" W		679797.015	961578.982	204+18.22		206+25.97	11°42'57" R	1016.00 '	207.75 '	104.24 '
PI C-R2.D.2	N 50°56'37" W		679889.28	961435.758	206+25.97		207+58.10	6°16'01" R	1208.00 '	132.13 '	66.13 '
PI C-R2.D.3	N 28°31'43" W	231.76 '	679982.639	961320.654	207+58.10		209+20.99	22°26'07" R	416.00 '	162.89 '	82.50 '
POE			680258.740	961170.565		211+52.75					

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	DEGREE OF CURVE (degree)	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design) (percent)	SPEED (MPH)	STOPPING SIGHT DISTANCE (feet)	NOTE
RAMP 2 DETOUR									
C-R2.D.1	11°42'57"	1016.00	5°38'22"	right	right	match I-25	35.00	290.00	horizontal sight distance (temporary barrier location) controls speed
C-R2.D.2	6°16'01"	1028.00	4°44'35"	right	right	5.86	30.00	225.00	horizontal sight distance (temporary barrier location) controls speed
C-R2.D.3	22°26'07"	416.00	13°46'23"	right	right	5.86	25.00	170.00	horizontal sight distance (temporary barrier location) controls speed

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File Name: 16311TRAF_PH2_GeomPlan_Ph4Detour.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
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R-2

Sheet Revisions

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Region 6 RLB

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Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 4 DETOUR
GEOMETRIC PLAN

Designer: JSC
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-19a of 39

Project No./Code
BR 0252-407
17783
Sheet Number 451a B

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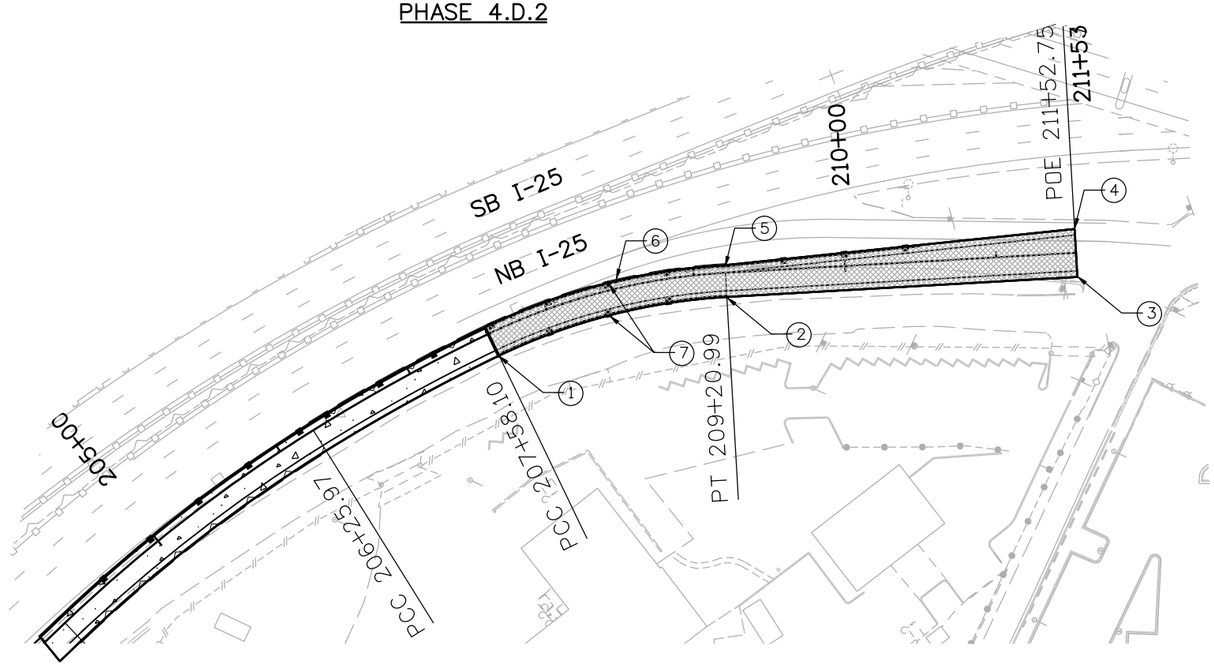
Know what's below. Call before you dig.

PHASE 4.D.2

CONSTRUCTION NOTES:

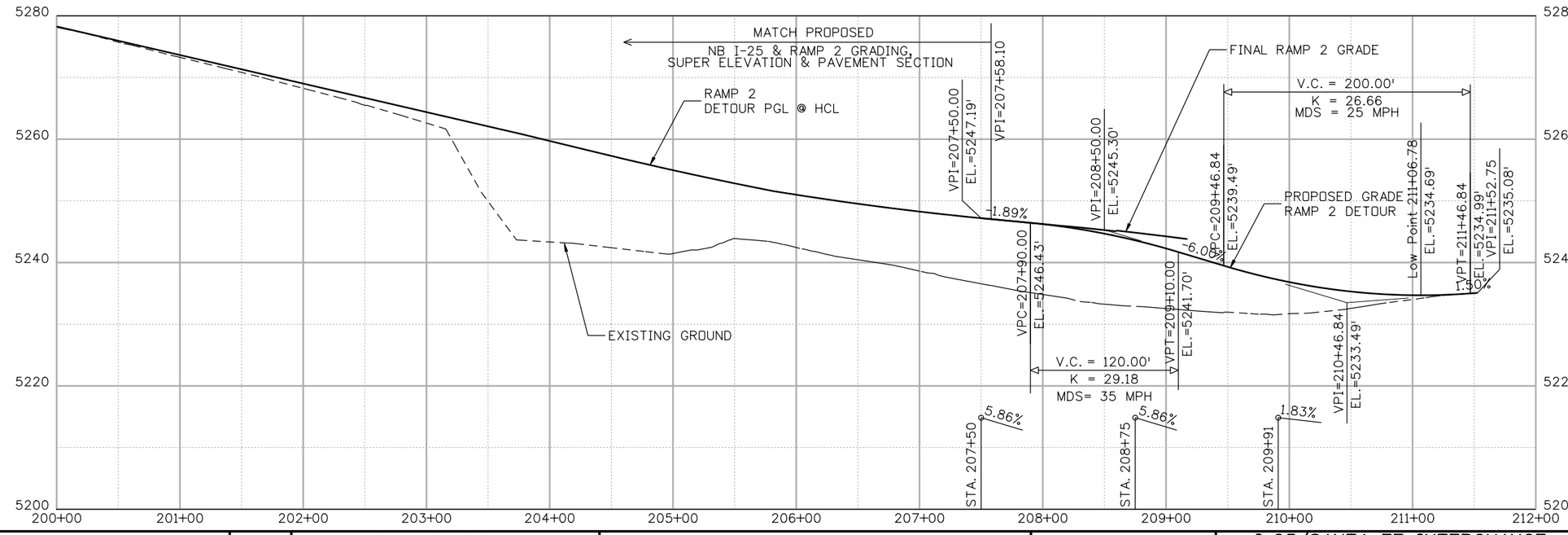
1. END PCC PAVEMENT
   BEGIN CONSTRUCTION TEMPORARY HMA DETOUR PAVEMENT, PC RIGHT & LEFT EDGES OF PAVEMENT
   STA. 207+58.10, 5.0' LT. & 16.0' RT.
2. PT RIGHT EDGE OF PAVEMENT
   STA. 209+20.99, 16.0' RT.
3. END TEMPORARY HMA DETOUR PAVEMENT,
   MATCH EXISTING RIGHT EDGE OF PAVEMENT
   STA. 211+52.75, 16.0' RT.
4. END TAPER,
   END TEMPORARY HMA DETOUR PAVEMENT,
   MATCH EXISTING LEFT EDGE OF PAVEMENT
   STA. 211+52.75, 16.0' LT.
5. BEGIN TAPER,
   PT LEFT EDGE OF PAVEMENT,
   STA. 209+20.99, 5.0' LT.
6. TEMPORARY WALL
   (SEE RETAINING WALL PLANS).
7. TEMPORARY GUARDRAIL
   (SEE CTC PLANS).



LEGEND:

- HMA PAVEMENT (SEE TYPICAL SECTIONS)
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)

0' 50' 100' 200'



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC		Revised:	Designer: JSC / Structure Numbers:	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: ZV / Sheet Subset: PHASING / Subset Sheets: ST-19bof 39	Sheet Number 451b B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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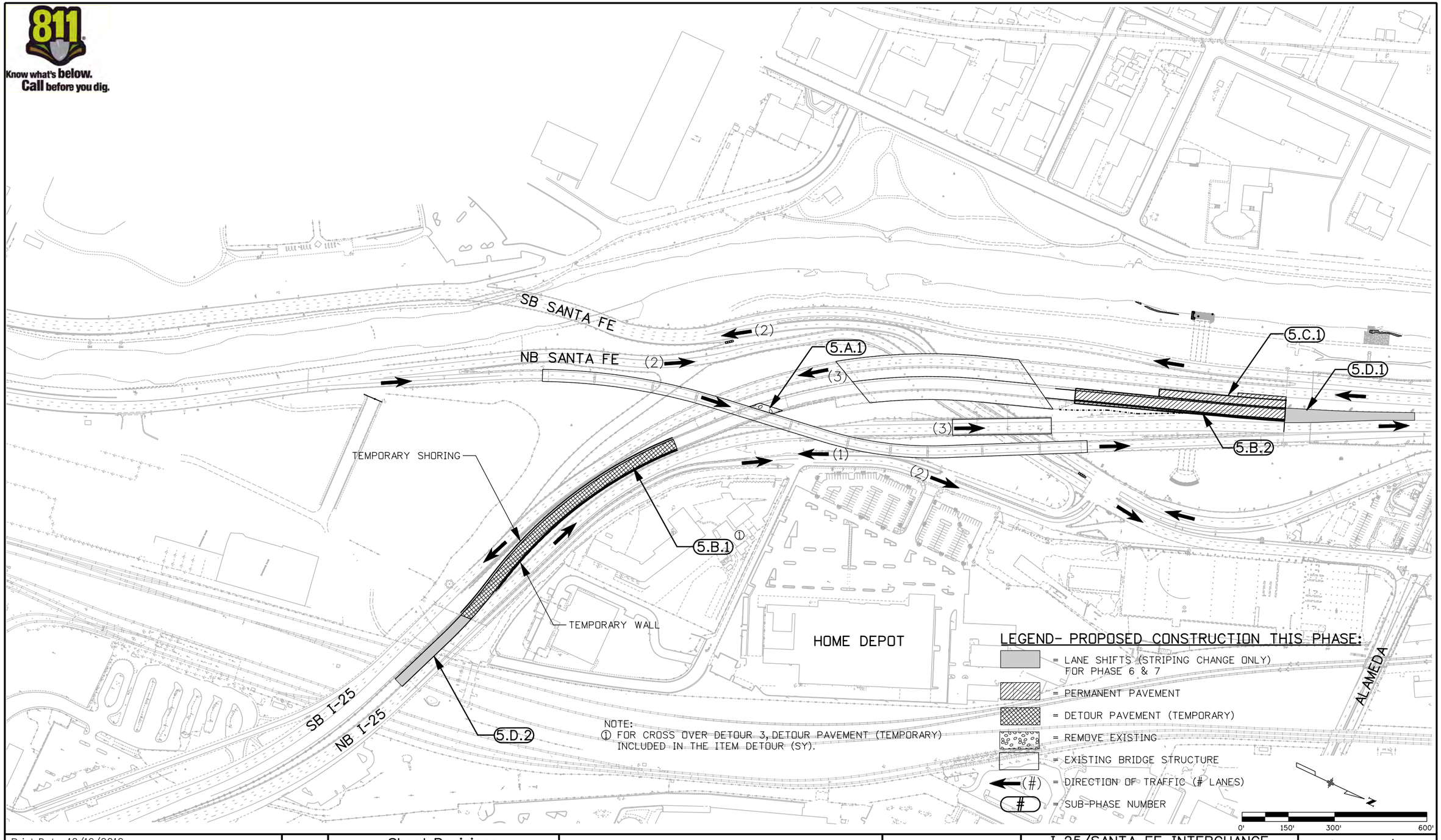
Know what's below. Call before you dig.



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Unit Information Unit Leader Initials		Phone: 303-972-9112 FAX: 303-972-9114	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111		Region 6 RLB	

I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 5			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
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CONSTRUCTION PHASING NOTES

Phase 5: Constuct Portions of NB & SB I-25

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
5.A	Remove Temporary Structure			
5.A.1	Remove Temporary Structure used to convey NB Santa Fe to NB I-25 Ramp Traffic in previous phases. Complete NB I-25 grading, and pave with HMA (Temporary Pavement).	See Structure Demolition Plans. Phasing Sections for this construction.	Phase 5 I-25 TCP	
5.B	Construct NB I-25 Cross Over Detour 3 & Portions of NB I-25 Lanes			
5.B.1	Construct Cross Over Detour 3 including temporary South of the Bridge Structures.	See Detour Plans, Phasing Sections & Retaining Wall Plans for this construction.	Phase 5 I-25 TCP	Impact to NB I-25 traffic.
5.B.2	Construct portions of NB I-25 lanes between the proposed NB I-25 Bridge Structure to the Northern project limit.	See Roadway Plans, Jointing Plans, and Phasing Sections for this construction.	Phase 5 I-25 TCP	
5.C	Construct Portions of SB I-25 Lanes			
5.C.1	Construct remaining portions of SB I-25 lanes between the proposed SB I-25 Bridge Structure and the northern project limit.	See Roadway Plans, Jointing Plans, and Phasing Sections for this construction.	Phase 5 I-25 TCP	
5.D	Lane Shifts to Move NB I-25 Traffic and Accommodate Phases 6 & 7			
5.D.1	Re-Stripe NB I-25 on the North end of the project, shifting NB I-25 traffic onto the newly constructed NB I-25 lanes.	Refer to Phasing Sections for information.	Phase 6 I-25 TCP	Impact to NB I-25 traffic.
5.D.2	Re-Stripe NB I-25 on the Soiuth end of the Project, shifting NB I-25 traffic onto the Cross Over Detour 3.	Refer to Phasing Sections for information.	Phase 6 I-25 TCP	Impact to NB I-25 traffic.

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R-2

Sheet Revisions

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1/03/11	RE-ISSUED SHEET	JSC

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DEPARTMENT OF TRANSPORTATION
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I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 5

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-21 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 453 B

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PHASE 5.B.1
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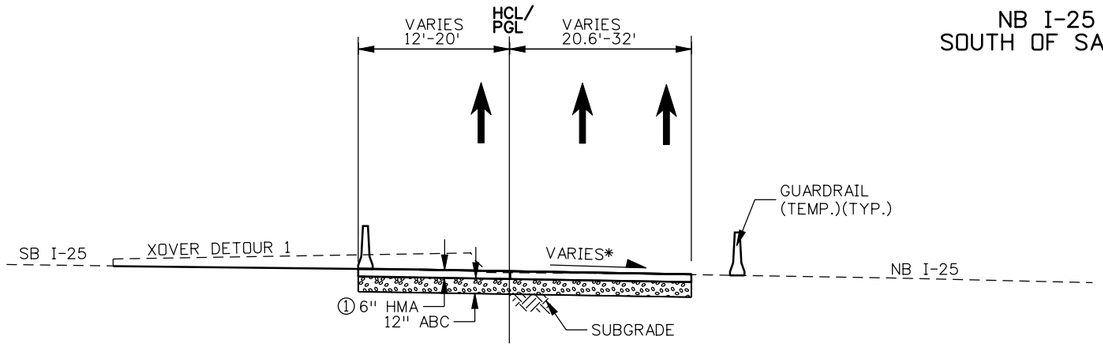
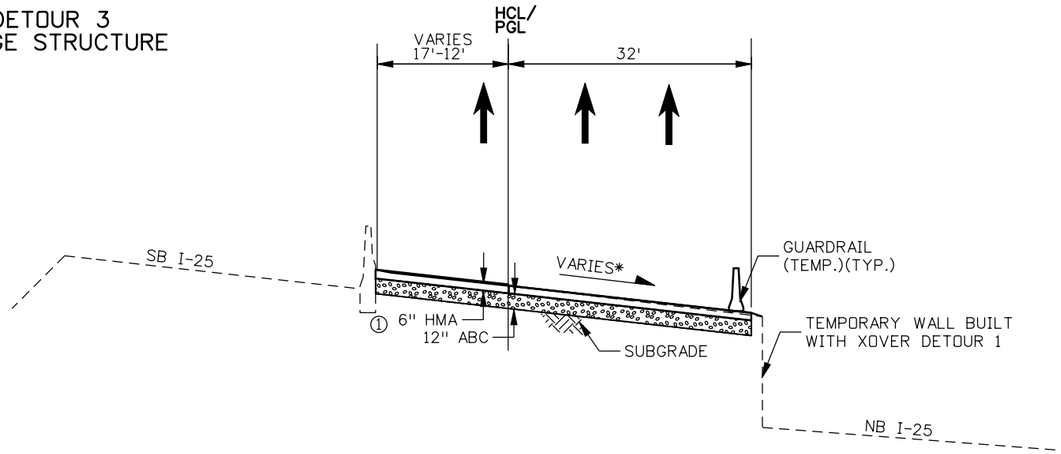
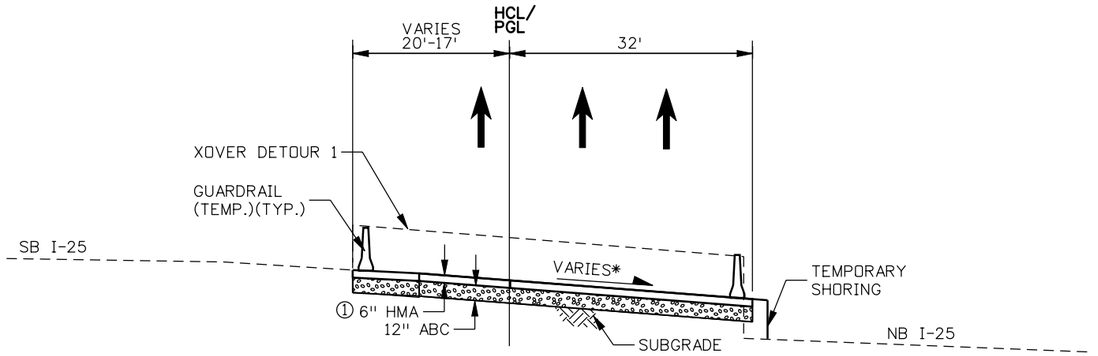


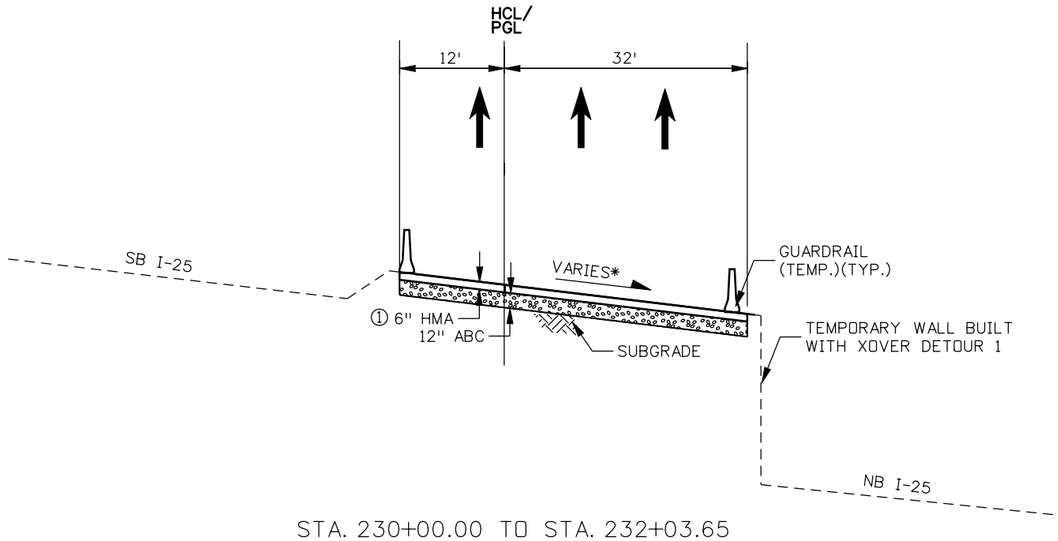
STA. 223+00.00 TO STA. 224+69.95



STA. 227+30.68 TO STA. 230+00.00



STA. 224+69.95 TO STA. 227+30.68



STA. 230+00.00 TO STA. 232+03.65
STA. 232+03.65= CROSS OVER DETOUR 1 STA. 228+04.73

NOTE: * SEE DETOUR PROFILE FOR SUPERELEVATION TRANSITION.
①SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_Typ_Sect11.dgn
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Unit Information Unit Leader Initials

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R-2

Sheet Revisions		
Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
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2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
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Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
PHASE 5 TYPICAL SECTIONS

Designer: JSC
Detailer: ZV
Sheet Subset: TYPICAL
Structure Numbers:
Subset Sheets: ST-22of 39

Project No./Code
BR 0252-407
17783
Sheet Number 454 B

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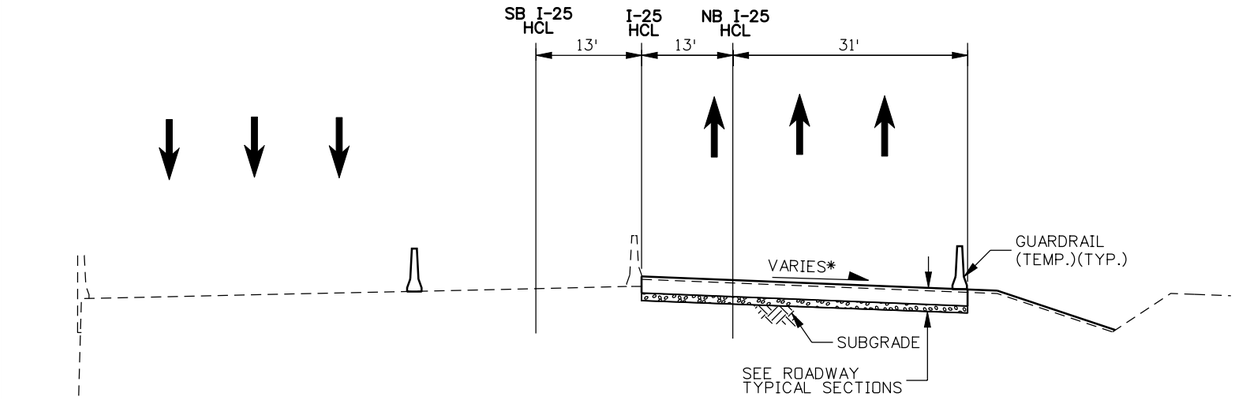
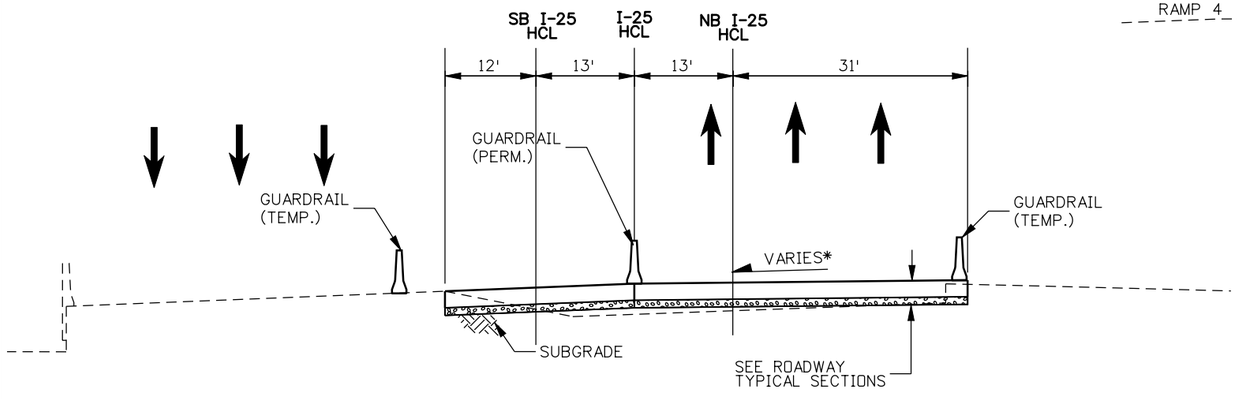
12/8/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

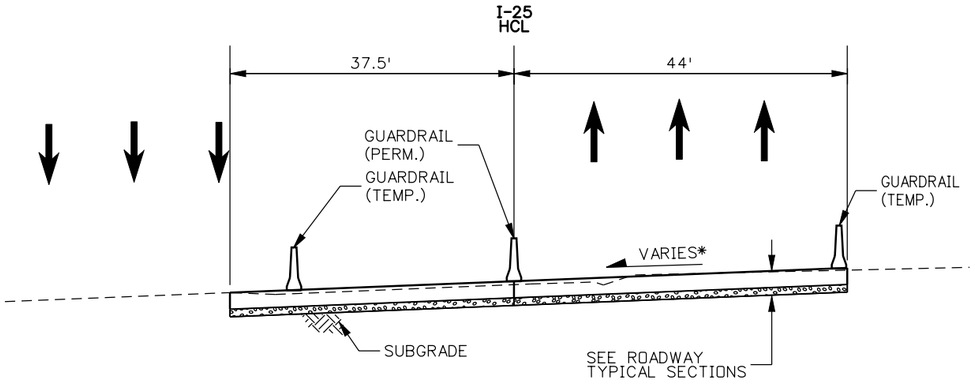
PHASE 5.B.2 & 5.C.1
NB I-25 & SB I-25 PHASE 5
CONSTRUCTION



NB I-25 STA. 1637+80.14 TO STA. 1640+50.92



NB I-25 STA. 1640+50.92 TO P.O.E. STA. 1641+43.91
SB I-25 STA. 2640+73.29 TO P.O.E. STA. 2641+66.29
I-25 STA. 641+55.10 TO STA. 643+17.41



I-25 STA. 643+17.41 TO STA. 644+75.00

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

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Unit Information Unit Leader Initials					Region 6 RLB	Void:
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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 5 TYPICAL SECTIONS			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TYPICAL	Subset Sheets: ST-23of 39		Sheet Number 455 B

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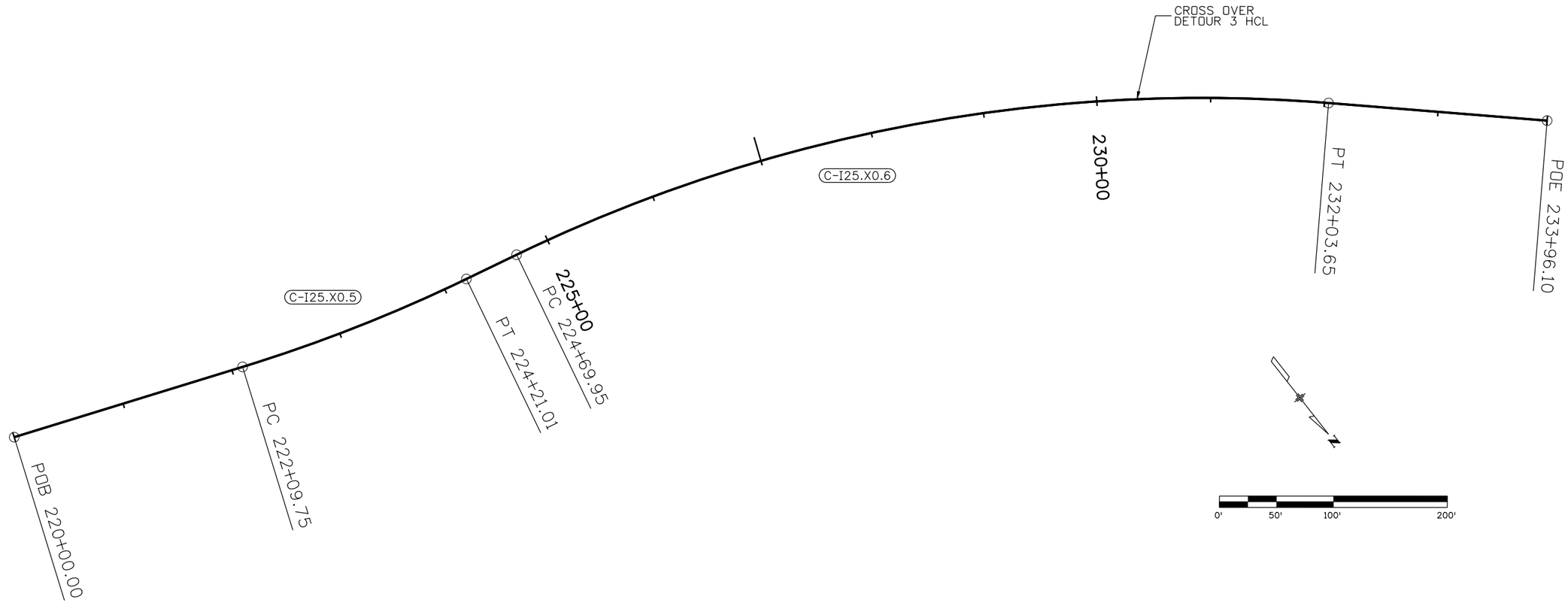

CONTROL LINE DATA - CROSS OVER DETOUR 3 HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N 68°54'04" W	209.75 '	679436.925	962351.439		220+00.00					
PI C-I25.XO.5	N 77°34'42" W	48.94 '	679550.529	962057.011	222+09.75		224+21.01	8°40'38" L	1395.00 '	211.27 '	105.84 '
PI C-I25.XO.6	N 47°10'55" W	192.44 '	679664.637	961538.953	224+69.95		232+03.65	30°23'47" R	1383.00 '	733.70 '	375.70 '
POE			680050.791	961122.208		233+96.10					

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	DEGREE OF CURVE (degree)	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design) (percent)	SPEED (MPH)	STOPPING SIGHT DISTANCE (feet)	NOTE
SB I-25 CROSS OVER DETOUR 1									
C-I25.XO.5	8°40'38"	1395.00	4°06'26"	left	left	match existing	45.00	389.00	horizontal sight distance (temporary barrier location) controls speed
C-I25.XO.6	30°23'47"	1383.00	4°08'34"	right	right	6.00	45.00	360.00	horizontal sight distance (temporary barrier location) controls speed

Print Date: 12/8/2010
File Name: 16311TRAF_PH2_GeomPlan_Ph5Detour.dgn
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R-2

Sheet Revisions

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I-25/SANTA FE INTERCHANGE
PHASE 5 DETOUR
GEOMETRIC PLAN

Designer: JSC
Detailer: SYS
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets:ST-23aof 39

Project No./Code
BR 0252-407
17783
Sheet Number 455a B

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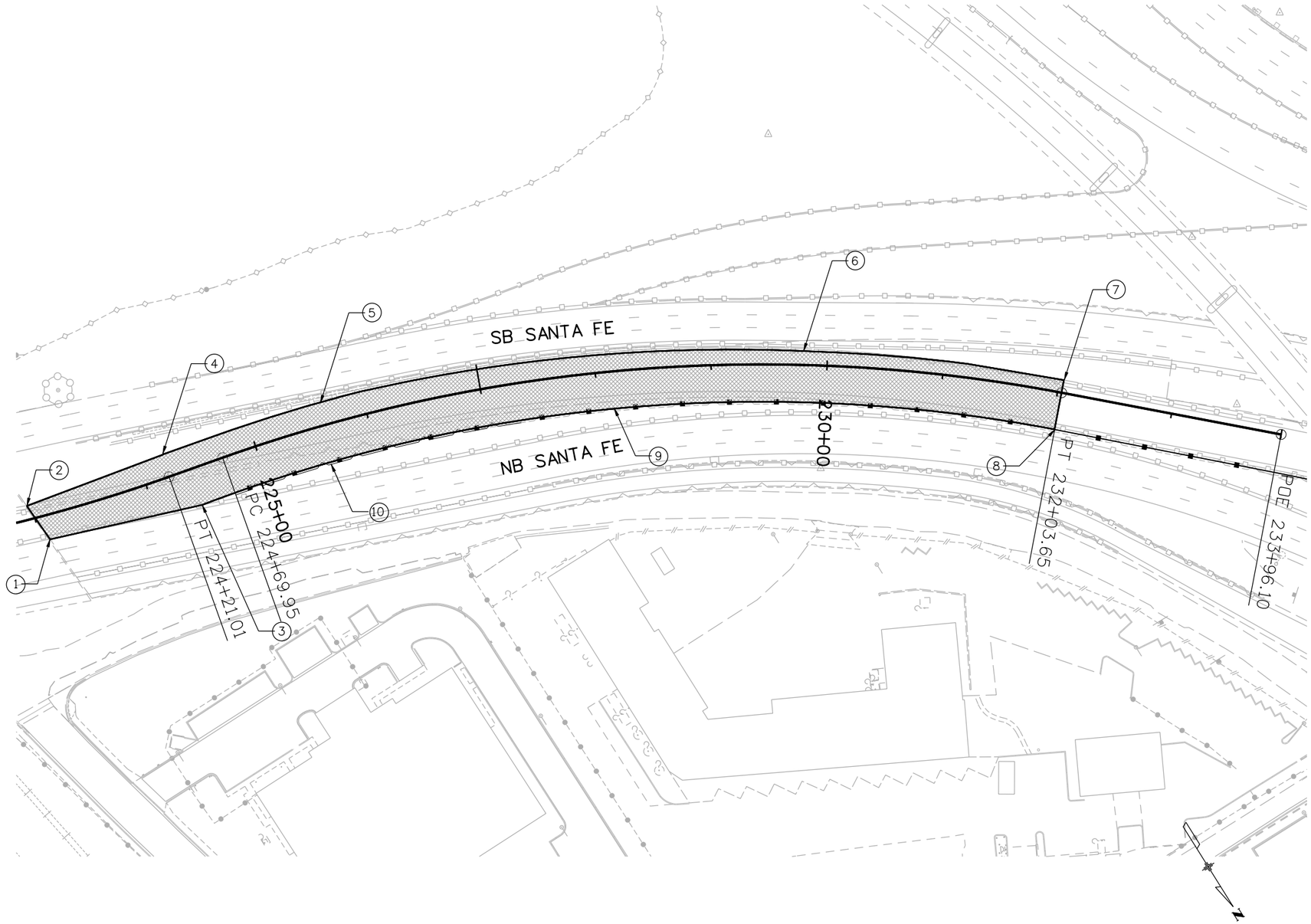
Know what's below. Call before you dig.

PHASE 5.B.1

CONSTRUCTION NOTES:

1. BEGIN CROSS OVER DETOUR 3 CONSTRUCTION, MATCH EXISTING STA. 223+08.17, 20.61' RT.
2. BEGIN CROSS OVER DETOUR 3 CONSTRUCTION, MATCH EXISTING STA. 223+00.73, 12.0' LT.
3. END RIGHT EDGE OF PAVEMENT TAPER STA. 224+39.98, 32.0' RT
4. END LEFT EDGE OF PAVEMENT TAPER PC LEFT EOP, RAD.= 1403.0' STA. 224+22.68, 20.0' LT
5. PCC LEFT EDGE OF PAVEMENT END RAD.= 1403.0', BEGIN RAD.= 1433.0' STA. 225+99.83, 17.89' LT
6. PCC LEFT EDGE OF PAVEMENT END RAD.= 1433.0', BEGIN RAD.= 1395.0' STA. 229+90.70, 12.0' LT
7. END CROSS OVER DETOUR 3, MATCH EXISTING LEFT EOP STA. 232+03.65, 12.0' LT.
8. END CROSS OVER DETOUR 3, MATCH EXISTING RIGHT EOP STA. 232+03.65, 32.0' RT.
9. TEMPORARY GUARDRAIL (SEE CTC PLANS FOR INFORMATION)
10. TEMPORARY RETAINING WALL (SEE RETAINING WALL PLANS FOR INFORMATION).



LEGEND:

HMA PAVEMENT (SEE TYPICAL SECTIONS)

Print Date: 12/8/2010	Sheet Revisions		
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Horiz. Scale: 1:100 Vert. Scale: As Noted	1/03/11	NEW SHEET	JSC
Unit Information Unit Leader Initials			
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Revised:
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I-25/SANTA FE INTERCHANGE
CONSTRUSTION PHASING
PHASE 5 CROSSOVER 3 DETOUR

Designer: JSC
Detailer: ZV
Sheet Subset: PHASING
Structure Numbers
Subset Sheets:ST-23bof 39

Project No./Code
BR 0252-407
17783
Sheet Number 455b B

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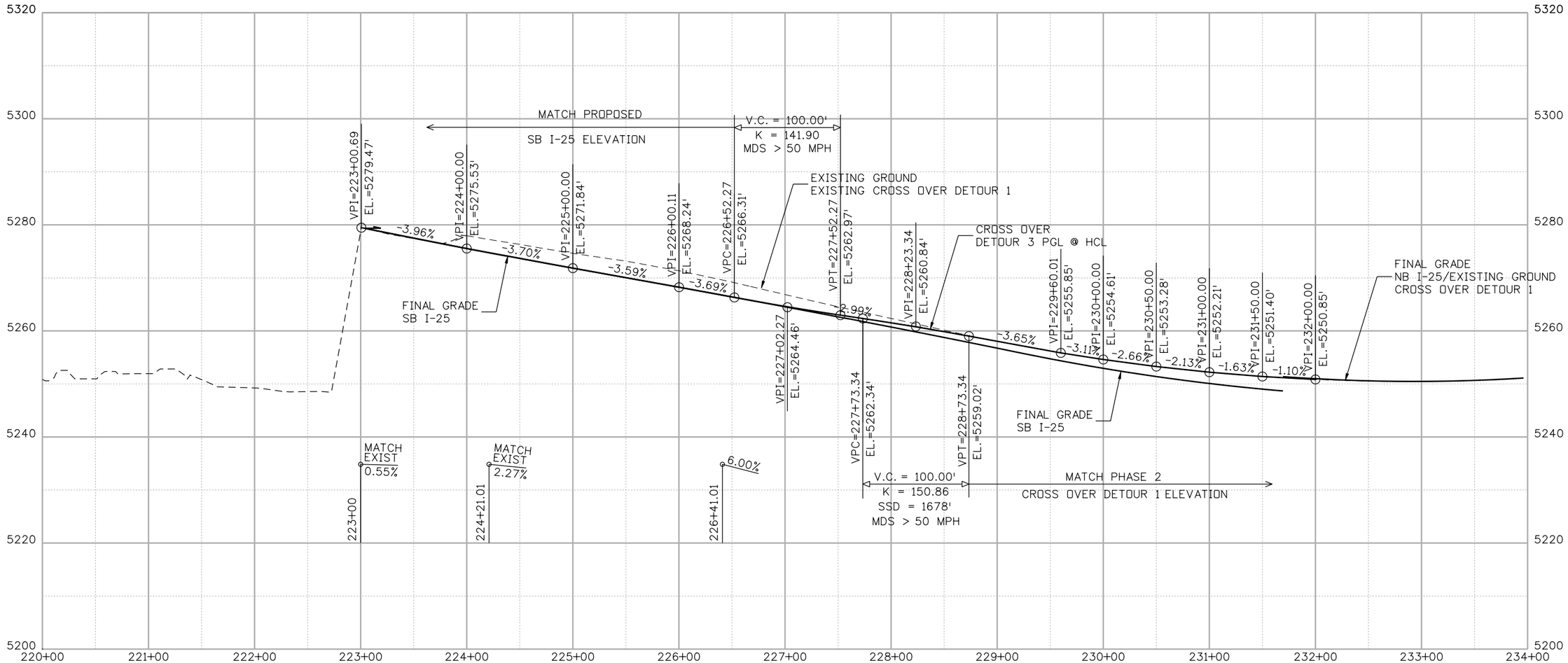
PHASE 5.B.1



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/11	NEW SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Detailer: ZV / Sheet Subset: PHASING	17783
Unit Information Unit Leader Initials						Void:	Structure Numbers / Subset Sheets:ST-23cof 39	Sheet Number 455c B
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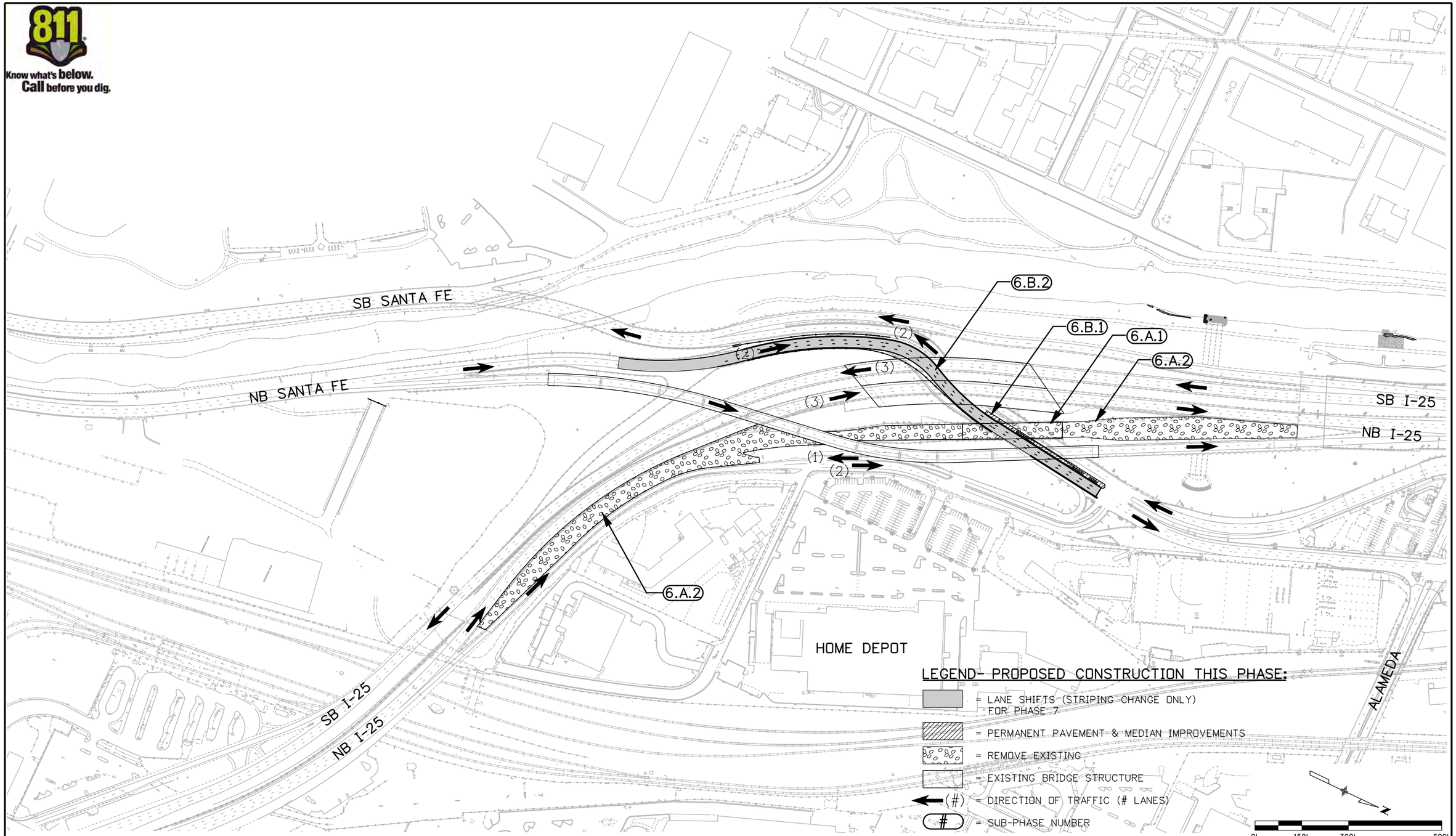

Print Date: 10/19/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
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Horiz. Scale: 1:300 Vert. Scale: As Noted		Region 6 RLB	Revised:
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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 6				Project No./Code
Designer: JSC	Structure Numbers			BR 0252-407
Detailer: ZV				17783
Sheet Subset: TRAFFIC	Subset Sheets: ST-24of 39			Sheet Number 456

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CONSTRUCTION PHASING NOTES

Phase 6: Removal of Existing NB I-25 & Final Santa Fe Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
6.A	Removal of Existing NB I-25 Facilities			
6.A.1	Remove existing NB I-25 over Santa Fe bridge structure.	See Structure Demolition Plans for this construction.	Phase 6 I-25 TCP	Impact to Santa Fe Ave. traffic.
6.A.2	Remove existing NB I-25 pavement within the project limits.		Phase 6 I-25 TCP	
6.B	Complete Santa Fe Construction			
6.B.1	Construct remaining pavement in the median of Santa Fe Ave. & add protective barrier around the Ramp 1 Bridge Pier located within the median of Santa Fe Ave.	See Roadway Plans and Phasing Sections for this construction.	Phase 6 I-25 TCP	
6.B.2	Re-Stripe NB Santa Fe so that traffic operating in its ultimate configuration SB Santa Fe Traffic will still be operating with a 2-lane section.	Refer to Signing and Striping Plans for this construction.	Phase 6 I-25 TCP	Impact to NB Santa Fe Ave. traffic.

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R-2

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I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 6

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-25of 39

Project No./Code
BR 0252-407
17783
Sheet Number 457 B

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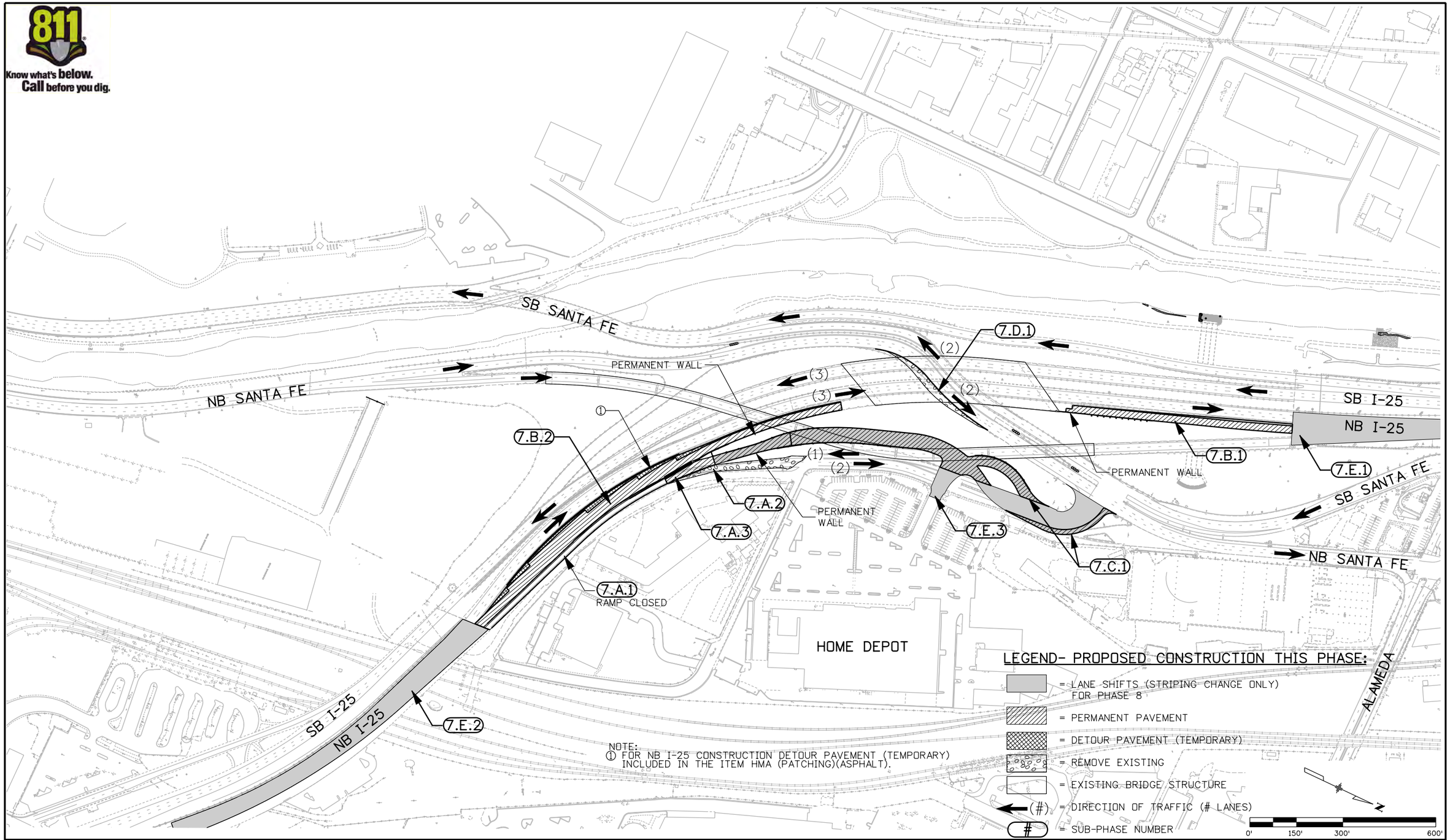

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Horiz. Scale: 1:300 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 7			Project No./Code
Designer: JSC	Structure Numbers		BR 0252-407
Detailer: ZV			17783
Sheet Subset: TRAFFIC	Subset Sheets: ST-26of 39		Sheet Number 458

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CONSTRUCTION PHASING NOTES

Phase 7: NB I-25, Ramp 2 & Home Depot Access Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
7.A	Ramp 2 Construction			
7.A.1	Close NB I-25 to NB Santa Fe Ramp movement for duration of Phase 7.	Traffic must be detoured.	Phase 7 I-25 TCP/NB I-25 to NB Santa Fe Area Detour Plan	Impact to NB I-25 to Santa Fe Ramp traffic.
7.A.2	Remove Ramp 2 Detour including retaining walls, embankment material & pavement at the intersection.	Frontage Road traffic may be impcated during this process.	Phase 7 I-25 TCP/NB I-25 to NB Santa Fe Area Detour Plan	Impact to Frontage Road traffic.
7.A.3.1	Roadway grading & permanent retaining wall construction for Final Ramp 2 alignment.	See Roadway Plans, Retaining Wall Plans and Phasing Sections for this construction.	Phase 7 I-25 TCP/NB I-25 to NB Santa Fe Area Detour Plan	Impact to NB I-25 to Santa Fe Ramp traffic.
7.A.3.2	Final paving along Proposed Ramp 2 alignment. Some concrete pavement and some HMA are used for paving Ramp 2.	See Roadway Plans, Jointing Plans, Retaining Wall Plans and Phasing Sections for this construction.	Phase 7 I-25 TCP/NB I-25 to NB Santa Fe Area Detour Plan	Impact to NB I-25 to Santa Fe Ramp traffic.
7.B	NB I-25 Construction			
7.B.1	Construct remaining NB I-25 lanes between the bridge structure and the North project limit, including extension of proposed retaining walls.	See Roadway Plans, Jointing Plans, Retaining Wall Plans and Phasing Sections for this construction.	Phase 7 I-25 TCP	Some impact to NB I-25 traffic.
7.B.2	Construct portions of NB I-25 between the bridge structure and the South project limit, including extension of proposed retaining walls. This construction will tequire both permanent and temporary paving.	Some lane closures may be necessary in order to construct portions of the permanent pavement sections. See Roadway Plans, Jointing Plans, Retaining Wall Plans and Phasing Sections for this construction.	Phase 7 I-25 TCP	Some impact to NB I-25 traffic.
7.C	Home Depot Access & Frontage Road Construction			
7.C.1	Construct portions of Frontage Road & Home Depot Access improvements located outside of the existing pavement limits.	See Roadway Plans and Typical Sections for this construction.	Phase 7 I-25 TCP	Some impact to Frontage Road & Home Depot Access traffic.
7.D	NB Santa Fe Avenue Construction			
7.D.1	Remove outside edge of NB Santa Fe Ave and place guardrail in its ultimate configuration.	See Roadway Plans & Phasing Sections for this construction.	Phase 6 Santa Fe TCP	Some impact to NB Santa Fe Ave traffic.
7.E	Lane Shifts to Accommodate Phase 8 Construction			
7.E.1	Re-stripe NB I-25 North of the structures, so that traffic is operating in the outside portion of the permanent pavement.	Refer to Phasing Sections for this construction.	Phase 8 I-25 TCP	Impact to NB I-25 traffic.
7.E.2	Re-stripe NB I-25 South of the structures, so that traffic is operating in the outside portion of the permanent pavement.	Refer to Phasing Sections for this construction.	Phase 8 I-25 TCP	Impact to NB I-25 traffic.
7.E.3	Re-stripe Ramp 2, Home Depot Access and Frontage Road so that traffic is operating in its ultimate configuration, open Ramp 2.	Refer to Signing and Striping Plans for this construction.	Phase 8 I-25 TCP	Impact to Ramp 2, Frontage Road, & Home Depot Access traffic.

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R-2

Sheet Revisions

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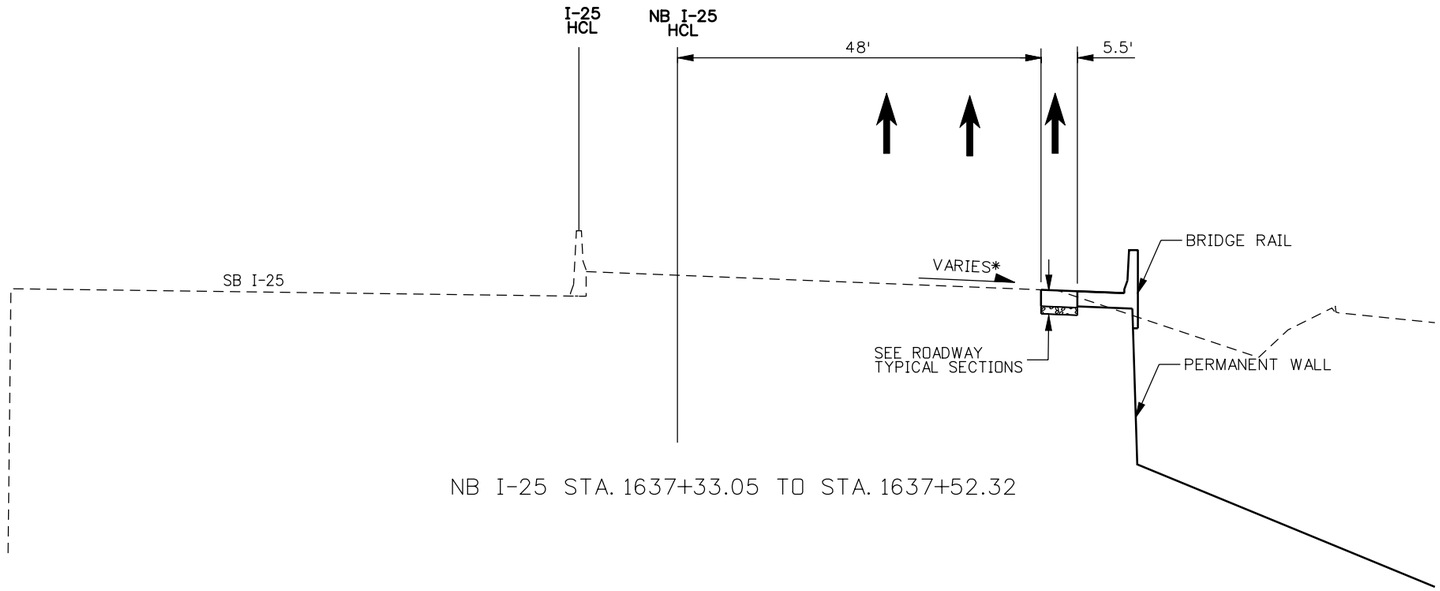
I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 7

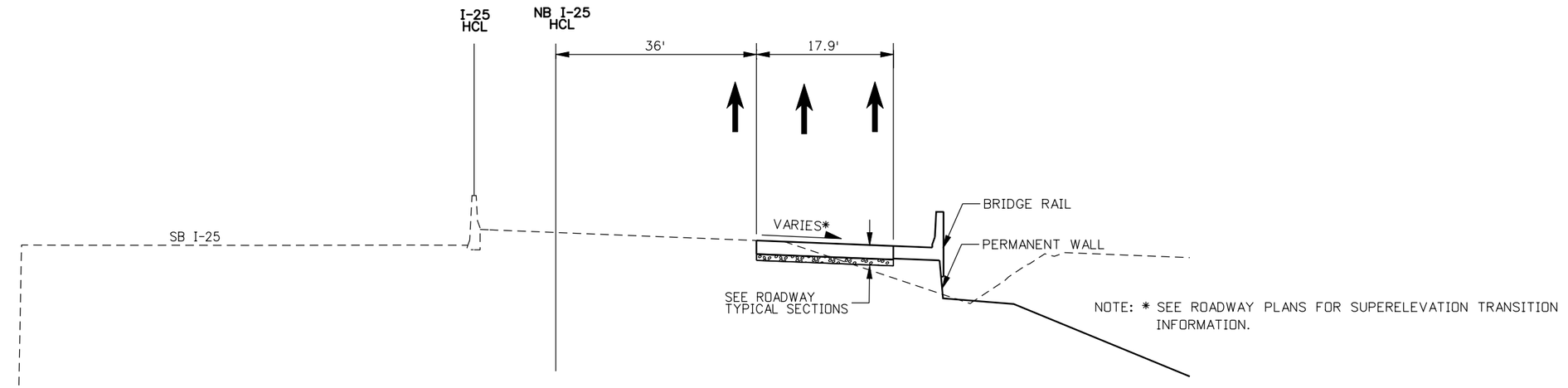
Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers:
Subset Sheets: ST-27of 39

Project No./Code
BR 0252-407
17783
Sheet Number 459 B

PHASE 7.B.1
NB I-25 PHASE 7 CONSTRUCTION



NB I-25 STA. 1637+33.05 TO STA. 1637+52.32



NB I-25 STA. 1637+52.32 TO STA. 1638+15.09

Print Date: 12/9/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 7 TYPICAL SECTIONS			Project No./Code
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Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: ZV			Sheet Number 460 B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TYPICAL	Subset Sheets: ST-28 of 39		

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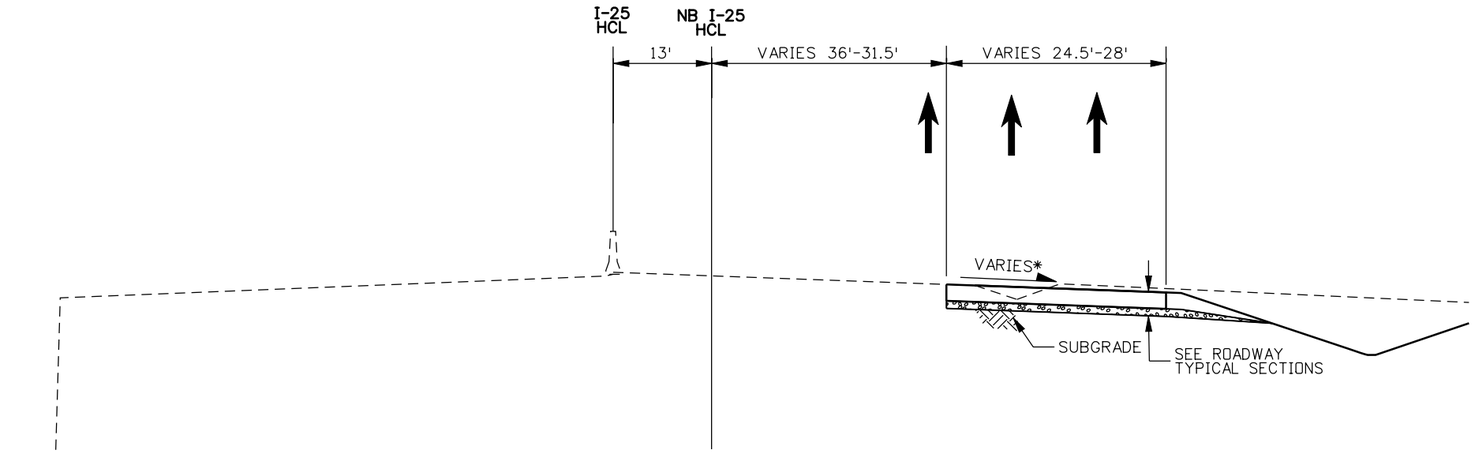
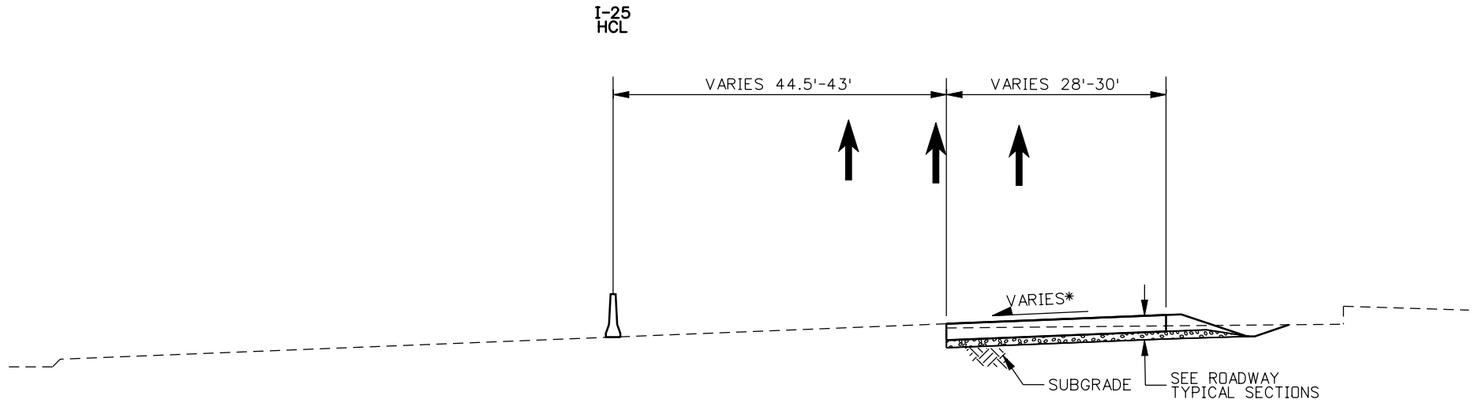
PHASE 7.B.1
NB I-25 PHASE 7 CONSTRUCTION



NB I-25 STA. 1638+15.09 TO STA. 1641+43.91



I-25 STA. 641+55.10 TO STA. 644+75.00

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

Print Date: 12/9/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 7 TYPICAL SECTIONS			Project No./Code
File Name: 16311TRAF_PH2_Typ_Sect17.dgn		Date:	Comments	Init.		No Revisions:				BR 0252-407
Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: JSC	Structure Numbers		17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: ZV			Sheet Number 461 B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TYPICAL	Subset Sheets: ST-29 of 39		

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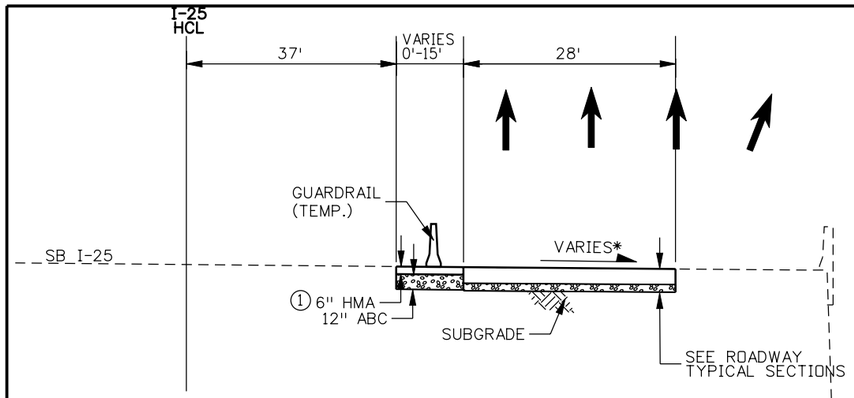
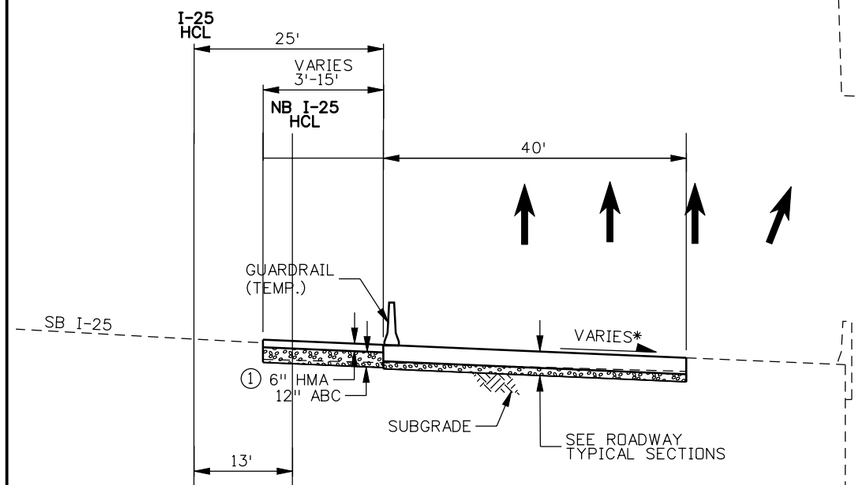
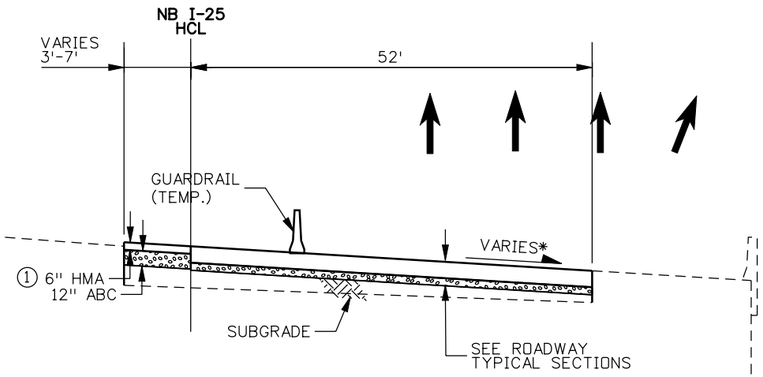
PHASE 7.B.2
NB I-25 PHASE 7 CONSTRUCTION



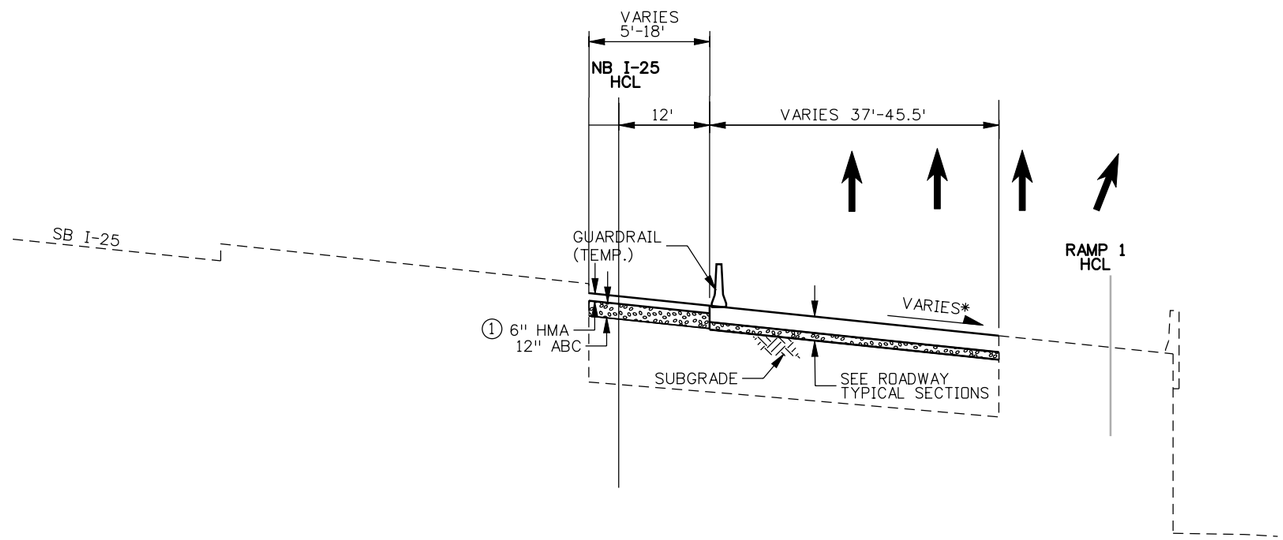
I-25 STA. 615+80.91 TO STA. 617+20.15



I-25 STA. 617+20.15 TO STA. 617+83.97
NB I-25 P.O.B. STA. 1617+83.97 TO STA. 1618+25.15



NB I-25 STA. 1618+25.15 TO STA. 1620+77.59



NB I-25 STA. 1620+77.59 TO STA. 1622+76.91

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITIONS.

① PHASE 7 TEMPORARY HMA WILL BE TABULATED AS HMA (PATCHING)(ASPHALT). SEE HMA LIFT DETAILS FOR MORE INFORMATION.

Print Date: 12/9/2010
File Name: 16311TRAF_PH2_Typ_Sect13.dgn
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R-2

Sheet Revisions

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2000 South Holly Street
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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING
PHASE 7 TYPICAL SECTIONS

Designer: JSC
Detailer: ZV
Sheet Subset: TYPICAL
Structure Numbers:
Subset Sheets: ST-30 of 39

Project No./Code
BR 0252-407
17783
Sheet Number 462 B

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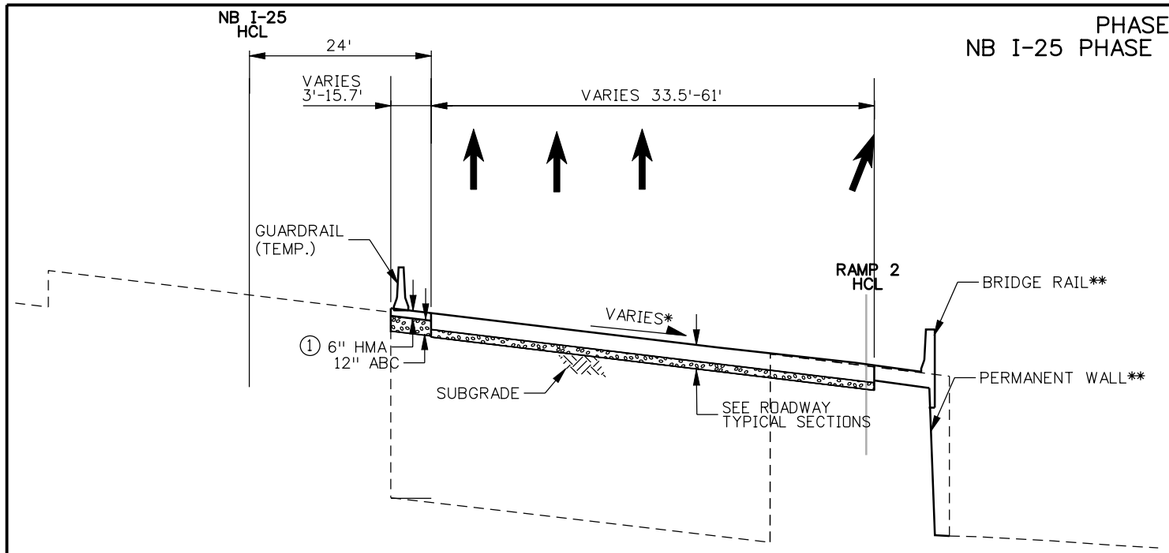
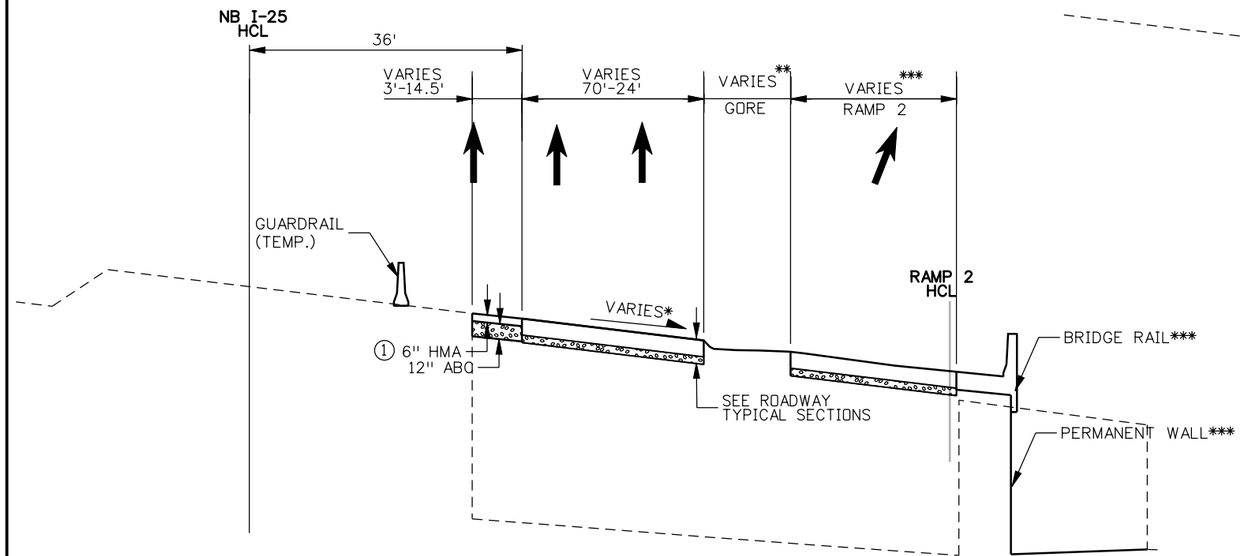
PHASE 7.B.2
NB I-25 PHASE 7 CONSTRUCTION



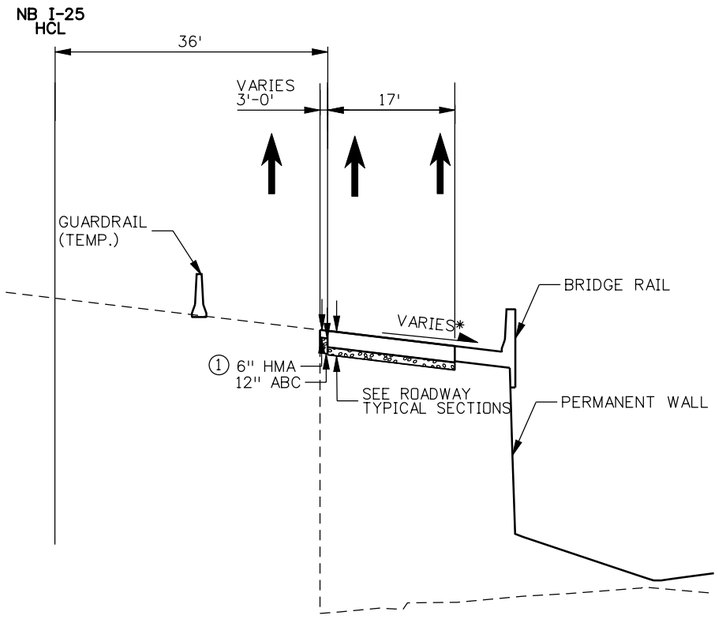
NB I-25 STA. 1622+76.91 TO STA. 1624+17.25

** BEGIN BRIDGE RAIL & WALL AT STA. 1623+50.09.



NB I-25 STA. 1624+17.25 TO STA. 1626+22.19

*** RAMP 2 BUILT FROM SEPERATE ALIGNMENT BEGINNING AT STA. 1624+84.37.
SEE ROADWAY PLANS FOR INFORMATION.



NB I-25 STA. 1626+22.19 TO STA. 1628+33.09

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITIONS.

① PHASE 7 TEMPORARY HMA WILL BE TABULATED AS HMA (PATCHING)(ASPHALT). SEE HMA LIFT DETAILS FOR MORE INFORMATION.

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Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET	JSC	Region 6 RLB	Revised:	Designer: JSC / Structure Numbers:	17783
Unit Information Unit Leader Initials						Void:	Detailer: ZV / Sheet Subset: TYPICAL / Subset Sheets: ST-31 of 39	Sheet Number 463 B
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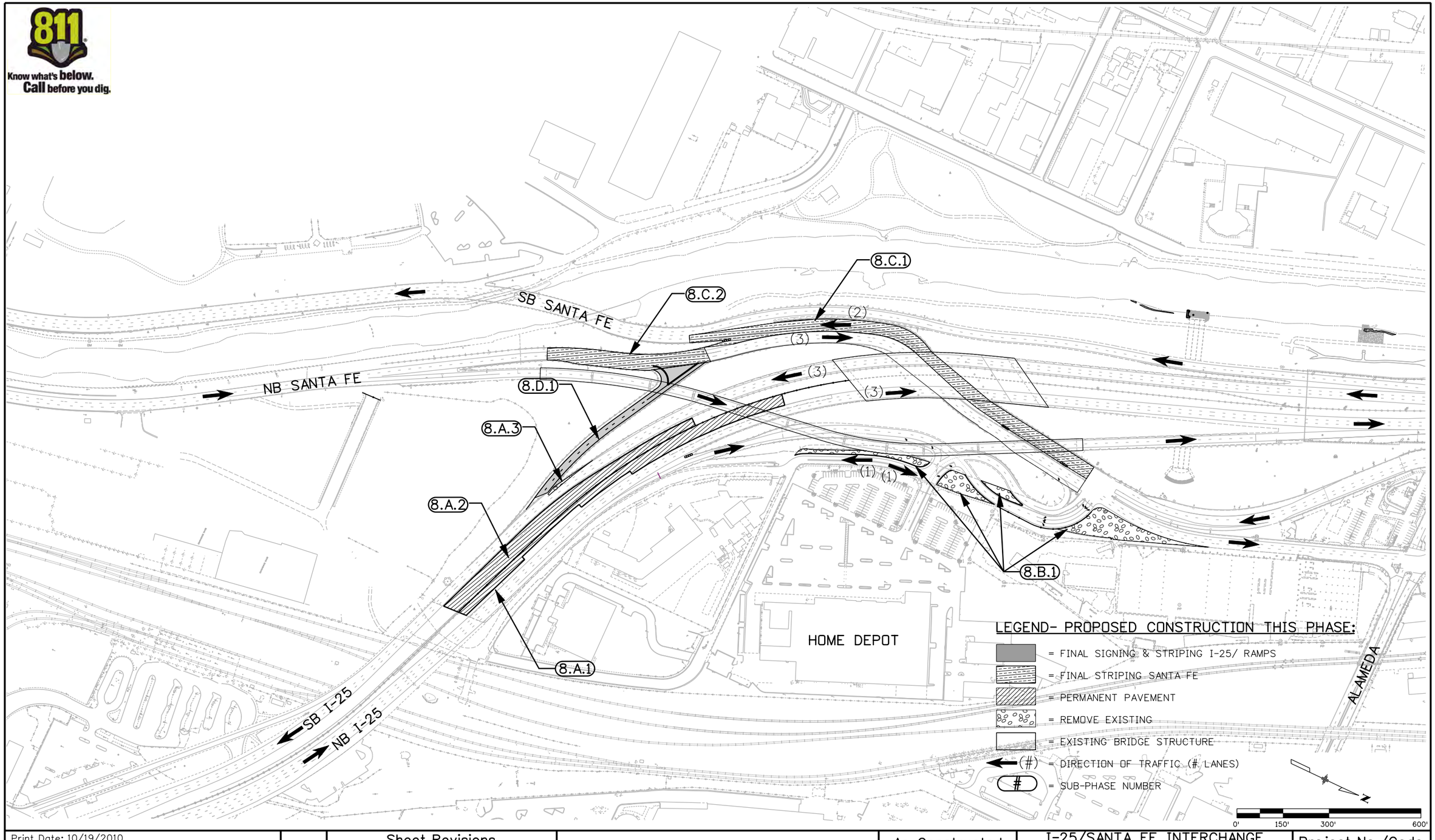
Know what's below. Call before you dig.



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Horiz. Scale: 1:300 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 8

Designer:	JSC	Structure Numbers	
Detailer:	ZV		
Sheet Subset:	TRAFFIC	Subset Sheets:	ST-32of 39

Project No./Code
BR 0252-407
17783
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CONSTRUCTION PHASING NOTES

Phase 8: NB I-25, SB I-25, Ramp 2 & Home Depot Access Construction

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
8.A	NB I-25 & SB I-25 Construction			
8.A.1	Construct remaining NB I-25 lanes between the bridge structure and the South project limit.	See Roadway Plans, Jointing Plans and Phasing Sections for this construction.	Phase 8 I-25 TCP	Impacts to NB I-25 traffic.
8.A.2	Construct remaining SB I-25 lanes between the bridge structure and the South project limit.	See Roadway Plans, Jointing Plans and Phasing Sections for this construction.	Phase 8 I-25 TCP	Impacts to SB I-25 traffic.
8.A.3	Remove temporary pavement from the outside of SB I-25 near the Ramp 3 gore.	See Phasing Details for information.	Phase 8 I-25 TCP	Impacts to SB I-25 traffic.
8.B	Home Depot Access & Frontage Road Construction			
8.B.1	Remove portions of existing Frontage Road pavement to complete Home Depot and Frontage Road improvements.	See Roadway Plans & Phasing Details for this construction.	Phase 8 I-25 TCP	Some impact to Frontage Road & Home Depot Access traffic.
8.C	Final Santa Fe Striping			
8.C.1	Stripe SB Santa Fe to show final lane configuration, including turn lanes for traffic accessing Ramp 3.	Refer to Signing and Striping Plans for this construction.	N/A	Some impact to SB Santa Fe traffic.
8.C.2	Stripe NB Santa Fe to show final lane configuration, including turn lanes for traffic accessing ramp 3	Refer to Signing and Striping Plans for this construction.	N/A	Some impact to NB Santa Fe traffic.
8.D	Ramp 3			
8.D.1.1	Final striping on Ramp 3 & adjust striping on SB I-25 to accept Ramp 3 traffic	Refer to Signing and Striping Plans for this construction.	N/A	
8.D.1.2	Open Ramp 3 to traffic.		N/A	

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R-2

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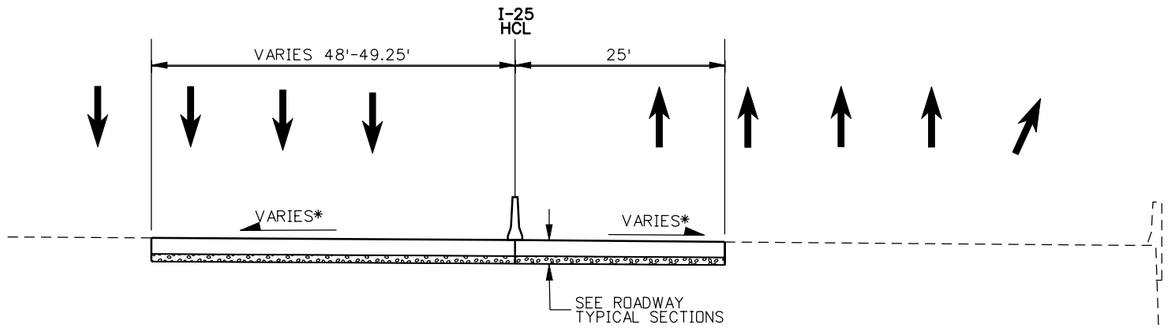
I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
NOTES PHASE 8

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-33of 39

Project No./Code
BR 0252-407
17783
Sheet Number 465 B

PHASE 8.A.1 & 8.A.2
NB I-25 & SB I-25 PHASE 8 CONSTRUCTION



I-25 STA. 615+80.91 TO STA. 617+20.15

I-25 STA. 617+20.15 TO STA. 617+83.97
NB I-25 P.O.B. STA. 1617+83.97 TO STA. 1618+25.15
SB I-25 P.O.B STA. 2617+83.97 TO STA. 2618+25.15

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

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Unit Information Unit Leader Initials				
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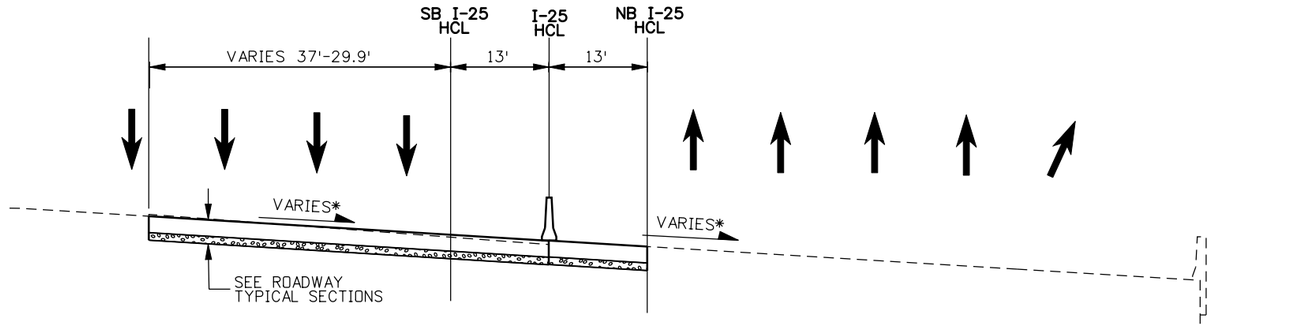
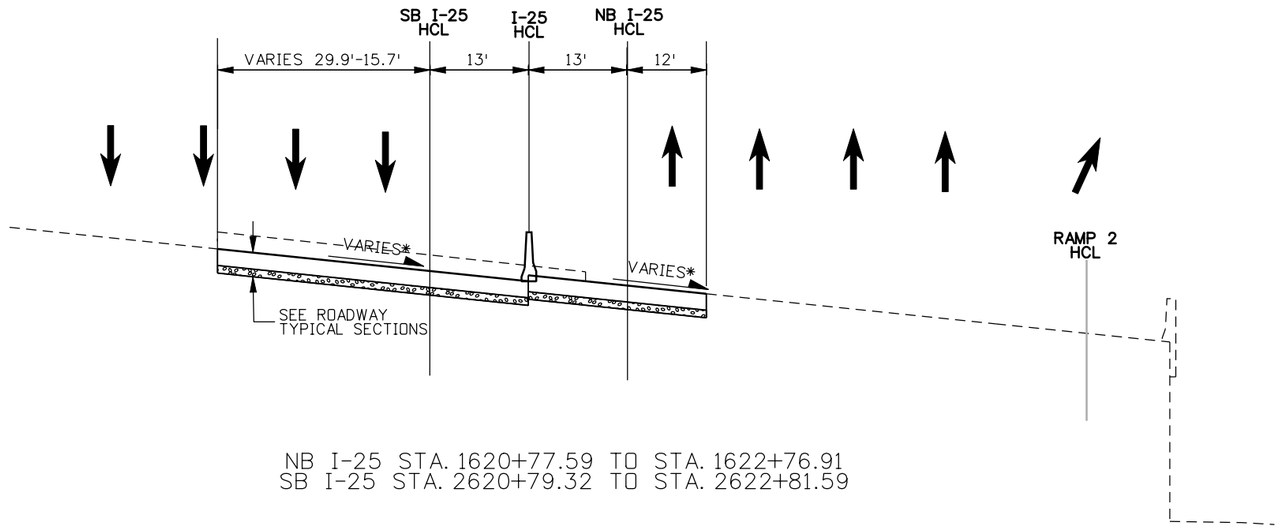
No Revisions:	Designer: JSC	Structure Numbers		BR 0252-407
Revised:	Detailer: ZV			17783
Void:	Sheet Subset: TYPICAL	Subset Sheets: ST-34 of 39		Sheet Number 466 B

PHASE 8.A.1 & 8.A.2
NB I-25 & SB I-25 PHASE 8 CONSTRUCTION



NB I-25 STA. 1618+25.15 TO STA. 1620+77.59
SB I-25 STA. 2618+25.15 TO STA. 2620+79.32



NB I-25 STA. 1620+77.59 TO STA. 1622+76.91
SB I-25 STA. 2620+79.32 TO STA. 2622+81.59

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

Print Date: 12/9/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 8 TYPICAL SECTIONS			Project No./Code
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Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: ZV			Sheet Number 467 B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TYPICAL	Subset Sheets: ST-35 of 39		

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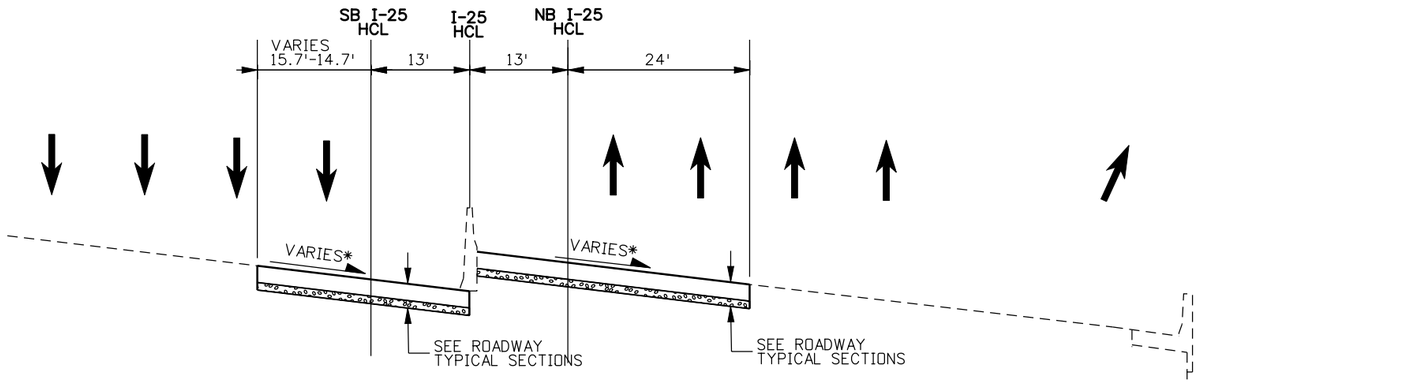
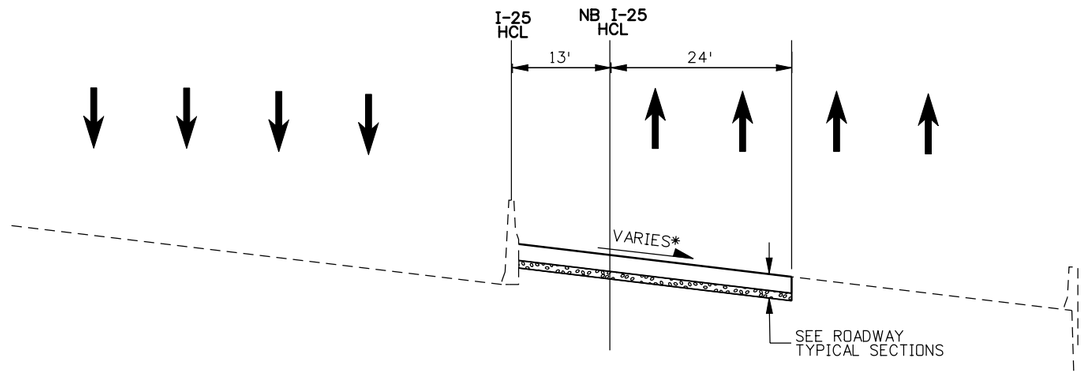
PHASE 8.A.1 & 8.A.2
NB I-25 & SB I-25 PHASE 8 CONSTRUCTION



NB I-25 STA. 1622+76.91 TO STA. 1625+35.58
SB I-25 STA. 2622+81.59 TO STA. 2625+44.08



NB I-25 STA. 1625+35.58 TO STA. 1628+33.09

NOTE: * SEE ROADWAY PLANS FOR SUPERELEVATION TRANSITION INFORMATION.

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Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/03/11	RE-ISSUED SHEET / JSC
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No Revisions:	Designer: JSC	Structure Numbers		BR 0252-407
Revised:	Detailer: ZV			17783
Void:	Sheet Subset: TYPICAL	Subset Sheets: ST-36 of 39		Sheet Number 468 B

811
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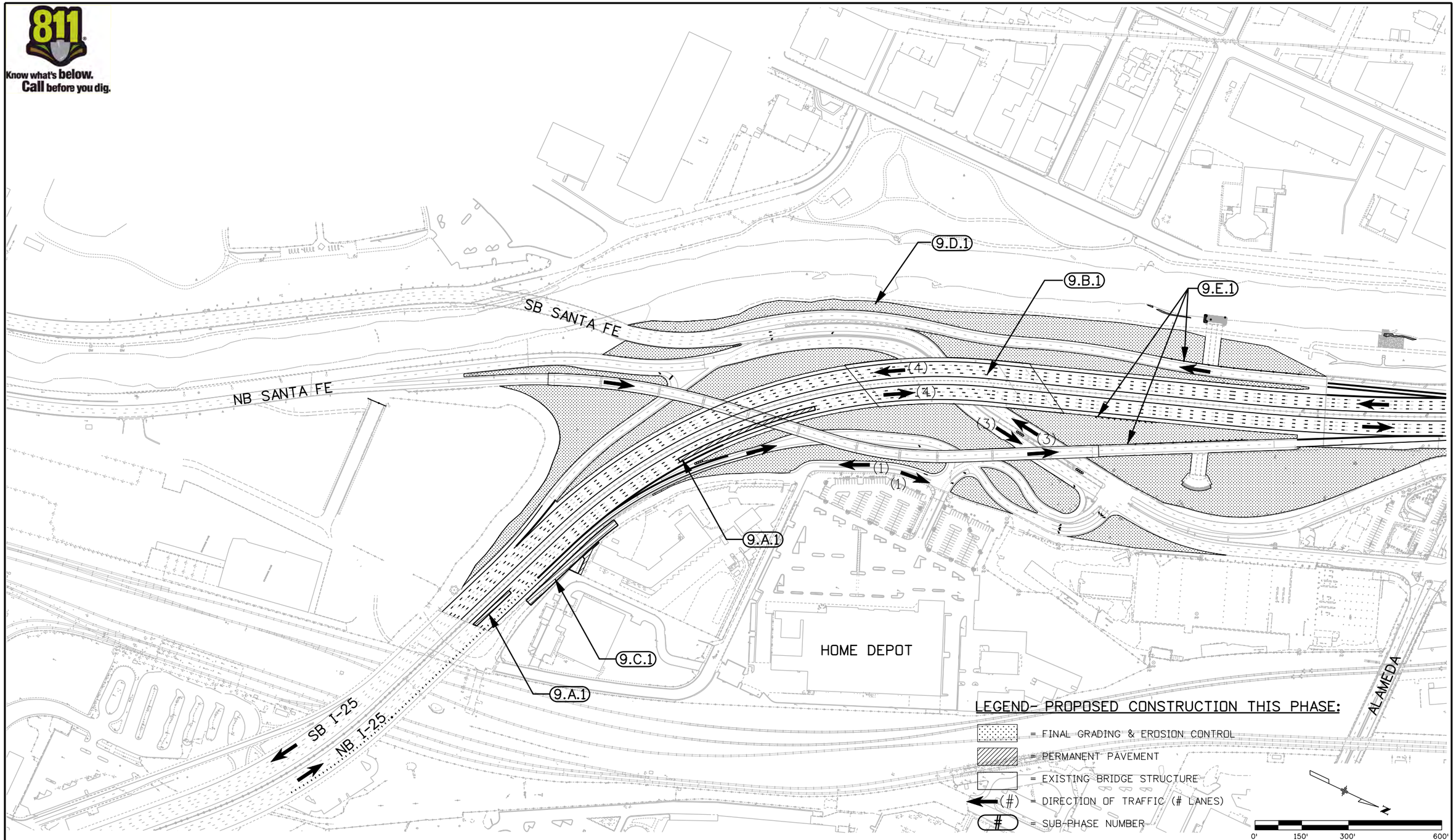

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Unit Information	Unit Leader Initials

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I-25/SANTA FE INTERCHANGE CONSTRUCTION PHASING PHASE 9

Designer:	JSC	Structure Numbers	
Detailer:	ZV		
Sheet Subset:	TRAFFIC	Subset Sheets:	ST-37of 39

Project No./Code	BR 0252-407
	17783
Sheet Number	469

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CONSTRUCTION PHASING NOTES

Phase 9: Final Paving, Frontage Road Improvements, Final Grading & Erosion Control

Reference	Construction Activity/Sequence	Special Considerations	Construction Traffic Control or Detour Plan	Traffic Operation Impacts
9.A	NB I-25 Final Paving			
9.A.1	Construct final pockets of permanent paving in NB I-25.	Lane closures & traffic shifts will be necessary for this construction. See Roadway Plans and Phasing Plans for more information.	Phase 9 I-25 TCP	Impacts to NB I-25 traffic.
9.B	Final Signing & Striping			
9.B.1	Final signing & striping for I-25, Santa Fe, Frontage Road, Home Depot Access and Interchange Ramps as necessary.	Lane closures will be necessary for this construction. See Roadway Plans, Typical Sections, and Signing & Striping Plans for this construction.	N/A	Impacts to I-25, Santa Fe, Home Depot Access and Interchange Ramp traffic.
9.C	Frontage Road Improvements			
9.C.1	Construct Frontage Road improvements and apply final signing & striping adjacent to I-25 retaining wall.	See Roadway Plans & Tupical Sections for this construction.	Phase 9 I-25 TCP	Impact to Frontage Road traffic.
9.D	Final Grading & Erosion Control			
9.D.1	Final grade & install final erosion control to all disturbed areas.	See Roadway Grading Plans & Final Erosion Control Plans for this construction.	Phase 9 I-25 TCP	
9.E	Final Guardrail Installation			
9.E.1	Install any remaining guardrail as necessary.	See Roadway Plans & Tupical Sections for this construction.	Phase 9 I-25 TCP	Some Impact to I-25, Santa Fe & Frontage Road traffic.

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R-2

Sheet Revisions

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CONSTRUCTION PHASING
NOTES PHASE 9

Designer: JSC
Detailer: ZV
Sheet Subset: TRAFFIC
Structure Numbers
Subset Sheets: ST-38of 39

Project No./Code
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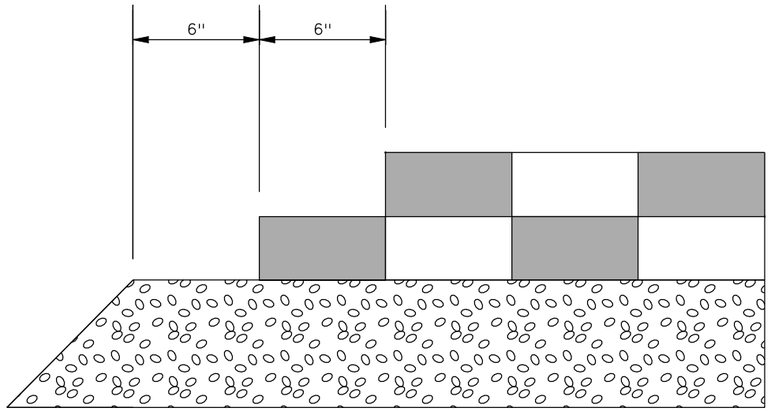
17783
Sheet Number 470 B



SANTA FE AVE. PHASING
PAVEMENT EDGE (SHOULDERING) DETAIL
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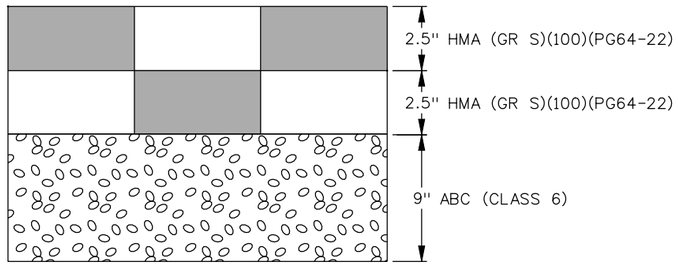

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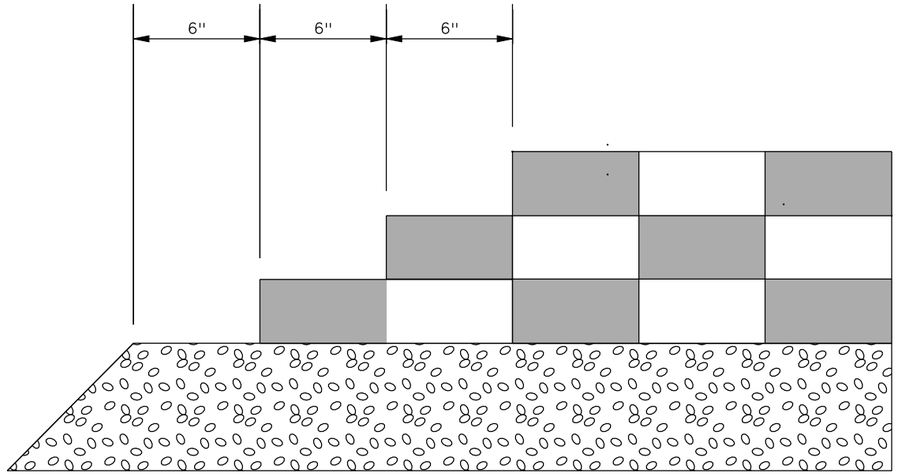
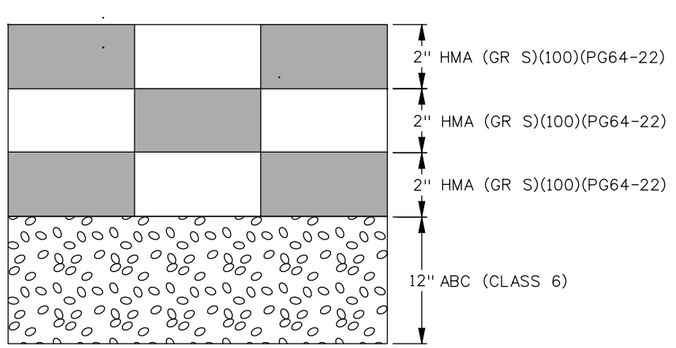


I-25 PHASING
PAVEMENT EDGE (SHOULDERING) DETAIL
(NOT TO SCALE)



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Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1/03/11	RE-ISSUED SHEET	JSC

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
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As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
CONSTRUCTION PHASING
DETAILS

Designer: JSC
Detailer: ZV
Sheet Subset: DETAIL
Structure Numbers:
Subset Sheets: ST-39of 39

Project No./Code
BR 0252-407
17783
Sheet Number 471 B

1. Site Description

Additional information for permitted projects. For information only to fulfill the CDPS-SCP (Colorado Discharge Permit – Stormwater Construction Permit).

A. Project Site Description:

This project will replace Bridge F-16-XS (Interstate 25 over Santa Fe Drive), and Bridge F-16-XR (northbound Santa Fe to northbound Interstate 25). Additional work includes retaining walls, Interstate 25 mainline re-alignment/re-construction, connecting ramp re-alignment/re-construction, re-alignment of Santa Fe Drive and access to Home Depot. Grading, utility relocations, storm sewer construction, bridge demolitions, and placement of temporary and permanent pavement will be required. Erosion control will be required throughout the construction period, and erosion control devices shall be added, repaired, modified, and maintained as needed in order to limit erosion and sedimentation at the project site.

B. Proposed Sequencing For Major Activities:

1. Construct field office/staging areas and provide erosion control for these locations.
2. Install erosion control Best Management Practices (BMPs) around the perimeter of the project site as shown on the plans. Construct the vehicle tracking control and the concrete washouts as shown on the plans or as directed by the engineer or the erosion control supervisor (ECS).
3. Construct Stage 1.2, which includes northbound Santa Fe Drive to northbound Interstate 25 (new bridges and roadway). Provide erosion control as shown on the plans. Contractor shall limit construction activities to the area within the limits of disturbance line (LDA line shown on grading sheets).
4. Construct Stage 1.3, which includes Interstate 25 re-construction and bridge construction from the existing Broadway Bridge to the Interstate 25/Alameda Avenue project built during Stage 1.1. Provide and maintain erosion control as shown on the plans and add additional BMPs as needed.
5. Add new BMPs and modify existing BMPs for detours and construction as needed. Provide and maintain erosion control as shown on the plans.
6. Pave and finish site grading for project area.
7. Final grading and stabilization of the construction site as construction is finalized.
8. The field office area, staging area, concrete washouts, and stabilized construction entrances can be removed.

C. Total Acres Of Disturbance:

1. Total area of construction site: 41 acres
2. Total area of disturbance: 41 acres (includes clearing, grading, excavation, stockpiling of fill materials, demolition, areas with heavy equipment/vehicle traffic, installation of new or improved haul roads and access roads, staging areas, dedicated borrow/fill areas and storage areas that will disturb existing vegetative cover).
3. Acreage of seeding: 28 acres. If areas outside of the project limits of disturbed area (LDA line as shown on grading plan) are disturbed, contractor shall re-establish at his/her own expense and will not be paid for this separately.

D. Existing Soil Data: Existing soils are silty to sandy clay fill, and gravelly sand.

E. Existing Vegetation, Including Percent Cover: Percent cover is very variable with patches of native grasses to weeds and bare soils. Pictures of pre-existing conditions will be kept in the SWMP to document vegetative cover at the different areas listed. The average percent of cover on the May 2010 date of survey was 70%.

F. Potential Pollutants Sources: See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

G. Receiving Water:

Outfall locations: Outfall locations are all to the South Platte River and they are shown on the plan sheets.

1. Outfall locations:
   - -Sta. 711+50 – Existing Outfall – Size Unknown (There will be no change to this outfall)
   - -Sta. 724+50 – Existing Outfall – 15" RCP (There will be no change to this outfall)
   - -Sta. 813+50 – Existing Outfall – 54" Brick (There will be no change to this outfall)
   - -Sta. 634+00 - Proposed Outfall – 36" RCP (This will be a new outfall)
   - -Sta. 635+00 - Existing Outfall – 15" RCP (There will be no change to this outfall)
   - -Sta. 639+00 – Existing Outfall – 36" RCP (There will be no change to this outfall)
   - -Sta. 641+75 – Existing Outfall – Triple Cell 16X7 RCBC (There will be no change to this outfall)
   - -Sta. 647+25 – Existing Outfall – 48" RCP (There will be no change to this outfall)
2. Names of receiving water(s) on site and the ultimate receiving water: Receiving water and the ultimate outfall is the South Platte River.
3. Distance ultimate receiving water is from project: The South Platte River is adjacent to the project site.
4. Does the receiving water have an approved total minimum daily loads (TMDL): No.
5. Allowable non-stormwater discharges: Yes, see below.

H. Allowable Non-Stormwater Discharges:

1. Landscape irrigation return flow from offsite areas may occur.
2. Groundwater and stormwater dewatering: Discharge to the ground of water from construction dewatering activities may be authorized provided that:
   a. The source is groundwater and/or groundwater combined with stormwater that does not contain pollutants.
   b. The source and BMPs are identified in the SWMP.
   c. Discharges do not leave the site as surface runoff or to surface waters.
3. If discharges do not meet the above criteria, a separate permit from the Department of Health will be required. Contaminated groundwater requiring coverage under a separate permit may include groundwater contaminated with pollutants from a landfill, mining activities, industrial pollutant plumes, underground storage tank, etc.

I. Environmental Impacts:

1. Wetland Impacts: Yes, at new storm sewer outfall (see plan sheets for location)
2. Stream Impacts: Yes, at new storm sewer outfall (see plan sheets for location)
3. Threatened and Endangered Species: No

2. Site Map Components

Pre-construction

A. Construction Site Boundaries: See Grading and Erosion Control Plans
B. All Areas Of Ground Surface Disturbance: See Grading and Erosion Control Plans
C. Areas Of Cut And Fill: See Grading and Erosion Control Plans
D. Location Of All Structural BMPs Identified In The SWMP: See Grading and Erosion Control Plans
E. Location Of Non-Structural BMPs As Applicable In The SWMP: See Grading and Erosion Control Plans
F. Springs, Stream, Wetlands And Other Surface Water: See Grading and Erosion Control Plans
G. Protection Of Trees, Shrubs, Cultural Resources And Mature Vegetation: See Grading and Erosion Control Plans

3. SWMP Administrator For Design:

Edward L. Lind, P.E., Water Resources Engineer for Felsburg Holt & Ullevig is responsible for developing the SWMP sheets during the design phase.

4. Stormwater Management Controls First Construction Activities

The Contractor Shall Perform The Following:

A. Designate A SWMP Administrator/Erosion Control Supervisor: The Erosion Control Supervisor for construction will be _____ (To be filled out at time of construction; designate the individual(s) responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the administrator shall address all aspects of the projects SWMP).

B. Potential Pollutant Sources: Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

C. Best Management Practices (BMPs) For Stormwater Pollution Prevention Phased BMP Implementation:

During design: fields are marked when used in the SWMP.

During construction: the ECS shall update the checked boxes to match site conditions. Clearly describe the relationship between the phases of construction and the implementation of BMP controls. Add a narrative to the table or to the site map describing why the BMPs are being used in specific locations.

D. Offsite Drainage (Run-on Water)

Describe and record BMPs on the plans that have been implemented to address run-on water in accordance with subsection 208.03.

E. Stabilized Construction Entrance/Vehicle Tracking Control

BMPs shall be implemented in accordance with subsection 208.04.

F. Perimeter Control

1. Perimeter Control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
3. Perimeter control shall be in accordance with subsection 208.04

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Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

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I-25/SANTA FE INTERCHANGE
SWMP CONSTRUCTION PLAN SHEET

Designer: ELL
Detailer: RSA
Sheet Subset: SWMP
Structure Numbers:
Subset Sheets: SW-1 of 4

Project No./Code
BR 0252-407
17783
Sheet Number 472

Structural BMP practices for erosion and sediment control; practices may include, but are not limited to:

	Type of Control	BMP as Designed	In use on site	First Construction Activities	During Construction	Interim/Final Stabilization
Temporary Berms	erosion			X	X	
Check Dams	sediment	X		X	X	
Silt Fence	sediment	X		X	X	
Erosion Logs	sediment	X		X	X	
Inlet Protection	erosion	X		X	X	
Outlet Protection	erosion	X		X	X	X
Gravel Bags	sediment	X		X	X	
Concrete Washouts	construction	X		X	X	
Stabilized Construction Entrance	construction	X		X	X	
Other						

South Platte River

Prior to construction of the water quality pond and its outlet pipe, fence (plastic), and erosion logs or other BMPs shall be placed to protect the South Platte River The cost of the BMPs and modifications required due to phasing shall be included in the item. Once work is complete in the area, seed and apply mulch/mulch tackifier or blanket per the plans. The ECS shall update the stormwater plans with locations, narratives, details, etc. for river work including, but not limited to, dewatering, access roads, etc.; ECS shall add information to the appropriate sections of the SWMP notebook.

Detour Side Slopes

Immediately after placement of detours, slopes shall be stabilized by spraying flexible growth medium onto all bare soils to prevent erosion from occurring.

Temporary Berms

Earth berms shall be placed as directed by the ECS where offsite or onsite storm waters can potentially cause erosion or sedimentation. They may be used for culvert protection, topside protection at an inlet, and inlet protection. They will collect sediment prior to its leaving the construction site. They shall be installed immediately after installation of the structure or roadway gutters as designated on the plans. Temporary Berms shall be maintained and kept in operating conditions per Section 208.

Check Dams

Check dams shall be placed as directed by the ECS where offsite or onsite storm waters can potentially cause erosion or sedimentation. They may be used for culvert protection, topside protection at an inlet, and inlet protection. They will collect sediment prior to its leaving the construction site. They shall be installed immediately after installation of the structure or roadway gutters as designated on the plans. Check dams shall be maintained and kept in operating conditions per Section 208.

Silt Fence

Silt fence shall be used as a perimeter control BMP and as a disturbed area BMP to capture sediment laden run-off from disturbed areas during construction. It shall be placed on the contour; ends shall be j-hooked to prevent water from running around the ends of fence. A maximum drainage area of one-quarter acre per 100 feet of silt fence length; maximum slope length behind the barrier is 100 feet. Silt fence shall be used at toe of slope and shall be placed prior to earthwork disturbance occurring, and during construction as required to limit sedimentation. Silt fence shall be placed 5' to 10' beyond toe of slope if possible to provide storage capacity. Silt fence shall be placed at locations indicated on the plans, or as directed by the engineer or the ECS to prevent sediment from exiting the project site or entering state waters. Silt fence shall be maintained and kept in operating conditions per Section 208.

Erosion Logs

Erosion logs are to be used as a perimeter control BMP, as a sediment barrier, and as a slope break as shown on the erosion control plans or in areas as directed by the engineer. They are to be placed prior to any disturbance. They are used to capture and filter sediment-laden run-off from disturbed areas during construction. Erosion logs shall be placed 5' to 10' beyond the toe of slope if possible to provide storage capacity. Erosion logs shall be maintained and kept in operating conditions per Section 208.

Inlet – Erosion Logs shall be placed at existing inlets as shown in the plans and where disturbance may be occurring adjacent to pipe that may cause sediment laden water to enter the pipe. Erosion Logs shall be placed prior to work commencing at these locations to filter sediment-laden runoff. For new culverts and new inlets, Erosion Logs shall be placed once the culvert or inlet is in place to prevent sediment-laden water from entering. BMPs shall be placed at storm drain inlets prior to sweeping operations commencing.

Ditch checks/stabilization of ditches – Erosion Logs shall be placed in areas indicated in the plans or as directed as soon as possible, immediately in most cases after ditch grading has been completed, (a completed ditch is one that is acting as a conduit for water). When checks are used in an existing ditch not to be disturbed, place check prior to work commencing in surrounding areas.

Toes of slopes – Erosion Logs are to be placed prior to work commencing for toes of slope locations and at diversion areas in addition to berms, as needed. Erosion Logs shall be placed on the contour with ends of logs j-hooked to prevent water from running around the ends causing erosion.

Inlet and Outlet Protection

Inlets are to be protected from sediment that may concentrate at them. Storm drain inlet protection shall be placed at existing inlets as shown on the plans, and at new inlets. Inlet and outlet protection shall be installed prior to construction for existing inlets and outlets, and immediately after installation for new inlets and outlets. Outlets shall have BMPs placed to collect sediment prior it's being released off the site. Riprap erosion protection shall be placed at pipe outlets to provide permanent protection. Inlet and outlet protection shall be maintained and kept in operating conditions per Section 208.

Gravel Bags

Gravel Bags are to be used in the gutter pans along the flow line and up-stream of storm drain inlets to capture sediment laden water or other pollutants from saw cutting, metal grinding, or other work. Gravel bags shall be installed prior to work commencing and shall be removed once work at the site is complete. Gravel bags shall be maintained and kept in operating condition at all times per Section 208.

Concrete Washout Structure

Concrete Washout Structures are to be used as a storage area to collect concrete debris from concrete mixers washing out their chutes and preventing this debris from contaminating waterways. Install prior to any concrete or grouting work. The location shall be approved by the Engineer. Concrete washout structures shall be maintained and kept in operating condition per Section 208.

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Stabilized Construction Entrance

Stabilized Construction Entrances are to be used to prevent/minimize sediment tracking when vehicles exit onto roadway areas. Ensure that all access to project work is limited to these entrance points. Install prior to any clearing & grubbing. Stabilized construction entrances shall be maintained and kept in operating condition per Section 208.

NON-STRUCTURAL BMP PRACTICES FOR EROSION AND SEDIMENT CONTROL

Practices may include, but are not limited to:

BMP	Type of Control	BMP as Designed	In Use on Site	First Construction Activities	During Construction	Interim/Final Stabilization
Surface Roughening/Grading Techniques	Erosion	X			X	
Seeding Permanent	Erosion	X			X	X
Seeding Temporary	Erosion	X			X	
Mulch (Weed Free) /Mulch Tackifier	Erosion	X			X	X
Soil Binder	Erosion	X			X	X
Soil Retention Blanket	Erosion	X			X	X
Vegetative Buffer Strips	Erosion	X		X	X	X
Protection Of Wetlands, Mature Trees & Vegetation	Erosion	X		X	X	X
Flexible Growth Medium	Erosion	X			X	
Landforms	Erosion	X		X	X	X

- Erosion control devices are used to limit the amount of erosion on site.
- Sediment control devices are designed to capture sediment on the project site,
- Construction control are BMPs related to construction access and staging.
- BMP locations are indicated on the Grading and Erosion Control Plans.
- BMP installation details and general narratives are in the SWMP notebook.

Surface Roughening/Grading Techniques

Surface Roughening/Grading Techniques are to be used on all disturbed areas to limit erosion and encourage infiltration of stormwaters. It shall be done immediately after grading operations have been completed or at the end of each working day. The surface roughening and grading techniques shall be parallel to the length of the slope, and shall be approved by the Engineer.

Seeding, Permanent

Seeding is used to control runoff and erosion on disturbed areas. Drill seeding shall occur on slopes flatter than 2:1 and shall occur on the contour of the slope. Completed areas (any portion of a slope that is at final grade) shall be seeded within 48 hours during seeding seasons. Seeded areas shall be inspected frequently for areas of failure. Slopes which are too steep for drill seeding shall have seed broadcast at double the rate and raked into the surface, (see interim and final seeding). Seeding in ditch lines shall follow the contour, drill rows running down a ditch line shall not be allowed.

Seeding, Temporary

Seeding (Temporary) is used to control runoff and erosion on temporarily disturbed areas between construction phases or detour phases. Drill seeding shall occur on slopes flatter than 2:1 and shall occur on the contour of the slope. Completed areas (any portion of a slope that is at desired grade) shall be seeded within 48 hours during seeding seasons. Seeded areas shall be inspected frequently for areas of failure. Slopes which are too steep for drill seeding shall have seed broadcast at double the rate and raked into the surface, (see interim and final seeding). Seeding in ditch lines shall follow the contour, drill rows running down a ditch line shall not be allowed.

Mulch (Weed Free) and Mulch Tackifier

Mulch (Weed Free) and Mulch Tackifier shall be in accordance with subsection 213.03 (a). Mulch (Weed Free) and Mulch Tackifier shall be placed at all areas that are to be seeded. This shall include re-mulching and applying additional tackifier to areas that have been re-disturbed and areas that have eroded since the initial mulching. The Mulch (Weed Free) and Mulch Tackifier will protect the seed from the forces of precipitation and wind and allow the seed to germinate. This shall be placed immediately after grading operations have established finished grade and the area will no longer be disturbed. Mulch (Weed Free) and Mulch Tackifier shall not be placed in ditch bottoms where there is a potential for the Mulch (Weed Free) and Mulch Tackifier to exit the project site.

Soil Binder

Soil Binder is a soil conditioner that is to be applied to the temporarily exposed soil areas during detours or construction phasing to reduce erosion. It can be used as a temporary soil stabilizer on disturbed areas or used in conjunction with seeding, mulching, and mulch tackifier to reduce soil loss and encourage vegetation establishment. This shall be placed immediately after temporary grading operations.

Soil Retention Blanket

Soil Retention Blankets shall be placed in areas as shown on the plans or as directed by the engineer. All slopes steeper than a 4:1 shall receive a blanket and ditches that have a grade steeper than 2% shall receive a blanket. Soils shall be properly prepared prior to placing of the blanket. If rills, plant material, rocks, weeds, etc. are present they shall be removed prior to placing blanket to ensure that the blanket is placed on the soil with no tenting; see specifications and M&S standards.

Vegetative Buffer Strips

Existing vegetation shall be used as a BMP on the project. Existing vegetation aids with erosion and sediment control, and protects water quality. Areas of preserved vegetation shall be marked on the grading and erosion control plans. The amount of sediment reaching buffer strips shall be kept to a minimum by placing temporary erosion control features on slopes. If sediment does enter buffer strips and covers existing vegetation it shall be cleaned/re-seeded as directed. Sediment in vegetative ditches shall be avoided to prevent sediment laden water from exiting the project site. All vegetative ditch outfalls (from CDOT right of way) shall be protected with Erosion Logs as shown in the plans or as directed.

Protection of Wetlands, Mature Trees and Vegetation

Prior to construction commencing, orange plastic fence (Fence (Plastic)) shall be placed in combination with an Erosion Log to prevent encroachment of construction traffic and sediment into state waters. Fence (Plastic) shall be placed adjacent to the wetlands, mature trees and vegetation; Erosion Logs shall be placed between the Fence (Plastic) and disturbance area. Erosion Logs shall be placed to direct flows away from or filter water running into wetlands, mature trees and vegetation from disturbance areas. Erosion Logs at these locations shall be trenched into the soil. Sediment in vegetative ditches shall be avoided to prevent sediment laden water from exiting the project site. All vegetative ditch outfalls (from CDOT right of way) shall be protected with Erosion Logs as shown in the plans or as directed.

Landforms

Where indicated in the plans, existing landforms shall be used as a BMP. Landforms prevent sediment from entering onto a site by filtering sediment laden water. When a landform is present, other BMPs may not be necessary. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. If BMPs are needed at outfall points, the ECS shall add location, type and appropriate narrative to the plans or SWMP notebook.

5. During Construction

Responsibilities of the SWMP administrator/erosion control supervisor during construction.

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with section 208.

A. Materials Handling And Spill Prevention
B. Stockpile Management
C. Grading And Slope Stabilization
D. Surface Roughening
E. Vehicle Tracking
F. Temporary Stabilization
G. Concrete Washout
   1. Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
H. Saw Cutting
I. New Inlet/Culvert Protection
J. Street Cleaning

6. Inspections

A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP Maintenance

A. Maintenance shall be in accordance with subsection 208.04 (e).

8. Record Keeping

A. Records shall be in accordance with subsection 208.03 (c).

9. Interim And Final Stabilization

A. Seeding Plan

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free), and mulch tackifier will be required for the disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	POUNDS PLS/ACRE
Western wheatgrass	*Pascopyrum smithii* "Arriba"	4.0
Sideoats grama	*Bouteloua curtipendula* "Vaughn"	2.0
Needle and thread	*Stipa comata*	3.0
Sand bluestem	*Andropogon hallii* "Elida"	4.0
Blue grama	*Bouteloua gracilis* "Hachita"	1.5
Little bluestem	*Schizachyrium scoparium* "Pastura"	2.0
Sand dropseed	*Sporobolus cryptandrus*	0.7
Prairie sandreed	*Calamovilfa longifolia* "Goshen"	3.0
Prairie coneflower	*Ratibida columnaris*	0.3
Blue flax	*Linum lewisi*	0.5
*Oats	*Avena sativa*	3.0
*In the event of fall seeding, substitute Oats for Winter Wheat at the same rate.		
	TOTAL	**24**

B. Seeding Application: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25 inch to 0.5 inch into soil.

C. Mulching Application: Apply 1 ½ tons of certified weed free mulch per acre mechanically crimped into the soil in combination with an organic mulch tackifier.

D. Special Requirements: Due to high failure rates, hydro mulching and/or hydro seeding will not be allowed.

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Revised:
Void:

I-25/SANTA FE INTERCHANGE
SWMP CONSTRUCTION PLAN SHEET

Designer: ELL
Detailer: RSA
Sheet Subset: SWMP
Structure Numbers
Subset Sheets: SW-3 of 4

Project No./Code
BR 0252-407
17783
Sheet Number 474

E. Soil Conditioning And Fertilizer Requirements: Soil conditioner, organic amendment shall be applied to all seeded areas at 3 cy/1000 sf.

F. Blanket Application: On slopes and ditches requiring a blanket, the blanket shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations.

G. Reseeding Operations/Corrective Stabilization
Prior to Final Acceptance.
1. Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc., shall be re-graded, seeded, mulched and have mulch tackifier (or blanket) applied as necessary.
2. Areas where seed has not germinated after one season shall be evaluated by the Engineer and CDOT Landscape Architect. Areas that have not germinated shall have seed, mulch and mulch tackifier (or blanket) applied. Work shall be paid for by the appropriate bid item.
3. The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until final acceptance.

10.Prior To Final Acceptance

A. Final acceptance shall be in accordance with subsection 208.061.
B. Native seed areas shall have 80% coverage, 90% grass species and no noxious weeds prior to final project acceptance. Any native seed areas having poor germination (less than 80% coverage) shall be re-seeded until establishment is reached. No bare spots greater that 6'x6' shall be accepted.

11. Tabulation Of Stormwater Quantities

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
203	BLADING	HR	240
203	BACKHOE	HR	240
203	SWEEPING (PICK-UP-BROOM)	HR	240
208	EROSION LOG (12 INCH)	LF	27,150
208	GRAVEL BAG	EA	1,050
208	SILT FENCE	LF	8,168
208	CHECK DAM	EA	68
208	CONCRETE WASHOUT STRUCTURE	EA	18
208	STORM DRAIN INLET PROTECTION	EA	191
208	STABILIZED CONSTRUCTION ENTRANCE	EA	15
208	SEDIMENT REMOVAL AND DISPOSAL (LABOR)	LS	420
208	SEDIMENT REMOVAL AND DISPOSAL (EQUIPMENT)	HR	360
208	EROSION CONTROL SUPERVISOR	HR	600
208	TEMPORARY BERMS	LF	1,500
212	SEEDING (NATIVE)	AC	42
213	MULCHING (WEED FREE)	AC	42
213	MULCH TACKIFIER	LB	8,400
213	SOIL BINDER	AC	29
216	SOL RETENTION BLANKET (SPECIAL)	SY	9,525
216	SOIL RETENTION BLANKET (STRAW / COCONUT)	SY	19,605
217	HERBICIDE TREATMENT	HR	120
700	EROSION CONTROL	FA	1

All quantities have been increased by 50 percent to account for unforeseen conditions and compliance with section 208.04 or replacement.

1. BMP cleaning and maintenance shall be paid for as 208 Sediment Removal and Disposal (Equipment) (HR) and Sediment Removal and Disposal (Labor) (HR).
2. It is estimated that 18 concrete washout structures will be required on the project.
3. The quantity of seeding (native) shall include soil preparation, soil conditioner, pre-emergent herbicide, and seed applied, completed, and accepted.
4. Topsoil quantities are shown on the EarthworkTabulation.
5. Soil Retention Blanket (Straw/Coconut) shall consist of biodegradable netting.
6. Soil Retention Blanket (Special) shall consist of a straw/coconut matrix stitched together with an UV plastic threading. This shall be placed in the channel/swale/ditch bottoms as shown in the plans.

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1/10/2011 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

RTD LIGHT RAIL
BROADWAY STATION

OFF RAMP TO BROADWAY

EXISTING ROW

610+00

615+00

SB I-25

NB I-25

STORM DRAIN INLET PROTECTION (1 EACH)

I-25 MAINLINE HCL

PROTECT VEGETATION

SILT FENCE (450 LF)

STORM DRAIN INLET PROTECTION (1 EACH)

SILT FENCE (220 LF)

I-25 FRONTAGE ROAD

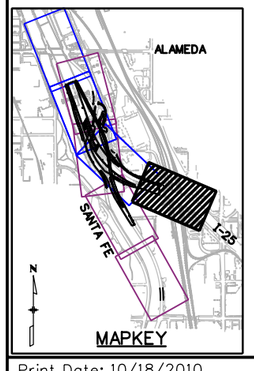
STORM DRAIN INLET PROTECTION (1 EACH)

MATCHLINE I-25 STA. 619+00

CONSOLIDATED RAILROAD

S. CHEROKEE ST.

STOR. ALL STORAGE



LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE LOA

FLOW DIRECTION

EXISTING WETLANDS

0' 50' 100' 200'

Print Date:	10/18/2010
File Name:	16311LAND_ENVI_PH2_INI_I-25Plan1.dgn
Horiz. Scale:	1:100
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG
6300 South Syracuse Way
Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed

No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
I-25 INITIAL GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EI-1 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 476

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

STORM DRAIN INLET PROTECTION (1 EACH)
STORM DRAIN INLET PROTECTION (2 EACH)
EROSION LOG (12 INCH) (770 LF)
CONCRETE WASHOUT AREA (1 EACH)
PROTECT WETLANDS
PROTECT WATERS OF THE US
NB SANTA FE
SB SANTA FE
SB I-25
NB I-25
I-25 FRONTAGE ROAD
EXISTING ROW
PROTECT VEGETATION
SILT FENCE (600 LF)
SILT FENCE (625 LF)
EROSION LOG (12 INCH) (1945 LF)
EROSION LOG (12 INCH) (475 LF)
EROSION LOG (12 INCH) (400 LF)
I-25 MAINLINE HCL
625+00
626+00
630+00
MATCHLINE I-25 STA. 619+00
MATCHLINE I-25 STA. 632+00
U.S. WELDING
W. CENTER AVE.

LEGEND
TOE OF FILL
TOP OF CUT
LIMITS OF DISTURBANCE (LDA)
FLOW DIRECTION
EXISTING WETLANDS
PROPOSED STAGING AREA

0' 50' 100' 200'

ALAMEDA
SANTA FE
I-25
MAPKEY

Print Date:	10/18/2010
File Name:	16311LAND_ENVI_PH2_INI_I-25Plan2.dgn
Horiz. Scale:	1:100
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 INITIAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EI-2 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 477

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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PROTECT WATERS OF THE US

PROTECT WETLANDS

PROTECT VEGETATION

SOUTH PLATTE RIVER

EXISTING ROW

EXISTING PERIMETER CONTROL BY LANDFORM

EROSION LOG (12 INCH) (1350 LF)

STORM DRAIN INLET PROTECTION (1 EACH)

635+00

640+00

645+00

I-25 MAINLINE HCL

SB I-25

NB I-25

SB SANTA FE

NB SANTA FE

MATCHLINE I-25 STA. 632+00

MATCHLINE I-25 STA. 645+00

EROSION LOG (12 INCH) (210 LF)

EROSION LOG (12 INCH) (870 LF)

EROSION LOG (12 INCH) (730 LF)

EROSION LOG (12 INCH) (530 LF)

EROSION LOG (12 INCH) (90 LF)

EROSION LOG (12 INCH) (700 LF)

STORM DRAIN INLET PROTECTION (2 EACH)

STABILIZED CONSTRUCTION ENTRANCE (1 EACH)

CONCRETE WASHOUT AREA (1 EACH)

STORM DRAIN INLET PROTECTION (3 EACH)

SILT FENCE (910 LF)

SILT FENCE (370 LF)

THE PROPOSED STAGING AREA IS APPROXIMATE AND SHALL BE LOCATED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. ALL EXISTING OR PROPOSED STORM WATER SHALL BE ROUTED AROUND THE PROPOSED STAGING AREA AS NECESSARY WITH APPROPRIATE EROSION CONTROL FACILITIES AND APPROVED BY THE PROJECT ENGINEER.

LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE — LDA —

FLOW DIRECTION

EXISTING WETLANDS

PROPOSED STAGING AREA

0' 50' 100' 200'

ALAMEDA

SANTA FE

I-25

MAPKEY

Print Date:	10/18/2010
File Name:	16311LAND_ENVI_PH2_INI_I-25Plan3.dgn
Horiz. Scale:	1:100
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation

DEPARTMENT OF TRANSPORTATION

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed

No Revisions:

Revised:

Void:

I-25/SANTA FE INTERCHANGE
I-25 INITIAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EI-3 of 7

Project No./Code

BR 0252-407

17783

Sheet Number 478

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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SOUTH PLATTE RIVER

PROTECT WATERS OF THE US

PROTECT WETLANDS

EXISTING ROW

STORM DRAIN INLET PROTECTION (2 EACH)

LDA

650+00

655+00

ALAMEDA AVE.

MATCHLINE I-25 STA. 645+00

STORM DRAIN INLET PROTECTION (1 EACH)

SB I-25

I-25 MAINLINE HCL

NB I-25

PROTECT VEGETATION

EXISTING ROW

SB KALAMATH

THE PROPOSED STAGING AREA IS APPROXIMATE AND SHALL BE LOCATED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. ALL EXISTING OR PROPOSED STORM WATER SHALL BE ROUTED AROUND THE PROPOSED STAGING AREA AS NECESSARY WITH APPROPRIATE EROSION CONTROL FACILITIES AND APPROVED BY THE PROJECT ENGINEER.

STORM DRAIN INLET PROTECTION (1 EACH)

SILT FENCE (590 LF)

SB SANTA FE

W. BYERS AVE.

LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE — LDA —

FLOW DIRECTION

EXISTING WETLANDS

PROPOSED STAGING AREA

0' 50' 100' 200'

ALAMEDA

SANTA FE

I-25

MAPKEY

Print Date: 10/18/2010
File Name: 16311LAND_ENVI_PH2_INI_I-25Plan4.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 INITIAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers
Subset Sheets: EI-4 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 479

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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VANDERBILT PARK

SB SANTA FE

SOUTH PLATTE RIVER

PROTECT WATERS OF THE US

PROTECT WETLANDS

STABILIZED CONSTRUCTION ENTRANCE (1 EACH)

STORM DRAIN INLET PROTECTION (1 EACH)

EROSION LOG (12 INCH) (985 LF)

NB SANTA FE HCL

NB SANTA FE

STORM DRAIN INLET PROTECTION (1 EACH)

EROSION LOG (12 INCH) (SEE SHEET EI-2)

MATCHLINE NB SANTA FE STA. 708+00

MATCHLINE NB SANTA FE STA. 721+00

710+00

715+00

720+00

STORM DRAIN INLET PROTECTION (1 EACH)

EROSION LOG (12 INCH) (235 LF)

W. OHIO AVE.

SILT FENCE (400 LF)

EXISTING ROW

STORM DRAIN INLET PROTECTION (1 EACH)

STORM DRAIN INLET PROTECTION (SEE SHEET EI-2)

PROTECT VEGETATION

ALAMEDA

SANTA FE

I-25

MAPKEY

LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE — LDA —

FLOW DIRECTION

EXISTING WETLANDS

PROPOSED STAGING AREA

0' 50' 100' 200'

Print Date: 10/18/2010			
File Name: 16311LAND_ENVI_PH2_INI_SantaFePlan1.dgn			
Horiz. Scale: 1:100	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		

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Sheet Revisions		
Date:	Comments	Init.

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DOT DEPARTMENT OF TRANSPORTATION

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Region 6 RLB

As Constructed

No Revisions:

Revised:

Void:

I-25/SANTA FE INTERCHANGE
SANTA FE INITIAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets: EI-5 of 7	

Project No./Code

BR 0252-407

17783

Sheet Number 480

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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PROTECT WATERS OF THE US

PROTECT WETLANDS

PROTECT VEGETATION

SOUTH PLATTE RIVER

EXISTING ROW

815+00

810+00

125+00

SB I-25

NB I-25

SB SANTA FE

NB SANTA FE

SB SANTA FE HCL

NB SANTA FE HCL

MATCHLINE SB SANTA FE STA. 818+62.17

MATCHLINE NB SANTA FE STA. 735+00

MATCHLINE NB SANTA FE STA. 721+00

SEE SHEETS EI-1 & EI-2 FOR EROSION CONTROL

HOME DEPOT PARKING LOT

LDA

SF

MAPKEY

ALAMEDA

SANTA FE

I-25

LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE

FLOW DIRECTION

EXISTING WETLANDS

PROPOSED STAGING AREA

0' 50' 100' 200'

N

Print Date: 10/18/2010
File Name: 16311LAND_ENVI_PH2_INI_SantaFePlan2.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE INITIAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers
Subset Sheets: EI-6 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 481

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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SEE SHEETS EI-3 & EI-4 FOR EROSION CONTROL

SB I-25

NB I-25

MATCHLINE SB SANTA FE STA. 818+62.17

MATCHLINE NB SANTA FE STA. 735+00

820+00

825+00

830+00

745+00

SB SANTA FE

NB SANTA FE

SB SANTA FE HCL

NB SANTA FE HCL

EXISTING ROW

ALAMEDA STATION DEVELOPMENT

LEGEND

TOE OF FILL

TOP OF CUT

LIMITS OF DISTURBANCE LDA

FLOW DIRECTION

EXISTING WETLANDS

PROPOSED STAGING AREA

0' 50' 100' 200'

ALAMEDA

SANTA FE

I-25

MAPKEY

Print Date: 10/18/2010	Sheet Revisions		
File Name: 16311LAND_ENVI_PH2_INI_SantaFePlan3.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
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Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE INITIAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EI-7 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 482

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RTD LIGHT RAIL
BROADWAY STATION

OFF RAMP TO BROADWAY

EXISTING ROW

610+00

615+00

619+00

SB I-25

NB I-25

I-25 MAINLINE
HCL

*(INITIAL)

STORM DRAIN INLET
PROTECTION
(1 EACH)

I-25 FRONTAGE ROAD

MATCHLINE I-25 STA. 619+00

CONSOLIDATED RAILROAD

S. CHEROKEE ST.

STOR. ALL STORAGE

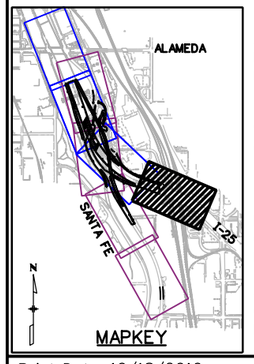
NOTES:

1. SEEDING (NATIVE), MULCHING (WEED FREE) AND MULCH TACKIFIER SHALL BE REQUIRED FOR ALL OF THE DISTURBED AREAS WITHIN THE PROJECT AREA 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.

2. THE QUANTITY OF SEEDING (NATIVE) SHALL INCLUDE SOIL PREPARATION, SOIL CONDITIONER, PRE-EMERGENT HERBICIDE, AND SEED APPLIED, COMPLETED, AND ACCEPTED.

3. INSTALL NEW EROSION/SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) AS NEW AREAS ARE UNDERGOING CONSTRUCTION AS NEEDED. REPAIR, MAINTAIN, AND REPLACE EXISTING BMP'S AS NEEDED. PERMANENTLY STABILIZE COMPLETED AREAS WITH SEEDING (NATIVE), MULCHING (WEED FREE HAY), AND MULCH TACKIFIER.

4. INTERIM EROSION CONTROL SHOWN FOR INFORMATION ONLY. THE EROSION CONTROL SUPERVISOR(S) SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING, REVISING, UPDATING CONTACT INFORMATION AND ALL ASPECTS OF THE EROSION CONTROL AND SWMP PLAN.



LEGEND

TOE OF FILL
TOP OF CUT
LIMITS OF DISTURBANCE — LOA —
FLOW DIRECTION
EXISTING WETLANDS

* MAINTAIN, OR REMOVE ALL INITIAL EROSION CONTROL FACILITIES AS NEEDED DURING VARIOUS CONSTRUCTION PHASES.

0' 50' 100' 200'

Print Date:	10/18/2010
File Name:	16311LAND_ENVI_PH2_INT_I-25Plan1.dgn
Horiz. Scale:	1:100
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

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Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed

No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
I-25 INTERIM
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EN-1 of 7

Project No./Code	BR 0252-407
	17783
Sheet Number	483

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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PROTECT WETLANDS

PROTECT WATERS OF THE US

NOTES:

1. SEEDING (NATIVE), MULCHING (WEED FREE) AND MULCH TACKIFIER SHALL BE REQUIRED FOR ALL OF THE DISTURBED AREAS WITHIN THE PROJECT AREA 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.

2. THE QUANTITY OF SEEDING (NATIVE) SHALL INCLUDE SOIL PREPARATION, SOIL CONDITIONER, PRE-EMERGENT HERBICIDE, AND SEED APPLIED, COMPLETED, AND ACCEPTED.

3. INSTALL NEW EROSION/SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) AS NEW AREAS ARE UNDERGOING CONSTRUCTION AS NEEDED. REPAIR, MAINTAIN, AND REPLACE EXISTING BMP'S AS NEEDED. PERMANENTLY STABILIZE COMPLETED AREAS WITH SEEDING (NATIVE), MULCHING (WEED FREE HAY), AND MULCH TACKIFIER.

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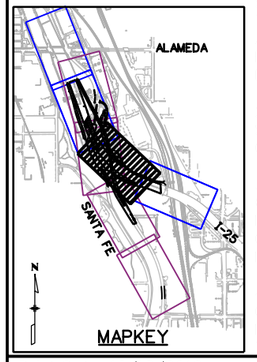

LEGEND

- TOE OF FILL
- TOP OF CUT
- LIMITS OF DISTURBANCE (LOD)
- FLOW DIRECTION
- EXISTING WETLANDS
- PROPOSED STAGING AREA

* MAINTAIN, OR REMOVE ALL INITIAL EROSION CONTROL FACILITIES AS NEEDED DURING VARIOUS CONSTRUCTION PHASES.

0' 50' 100' 200'

Print Date: 10/18/2010	
File Name: 16311LAND_ENVI_PH2_INT_I-25Plan2.dgn	
Horiz. Scale: 1:100 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
I-25 INTERIM
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EN-2 of 7

Project No./Code	
BR 0252-407	
17783	
Sheet Number	484

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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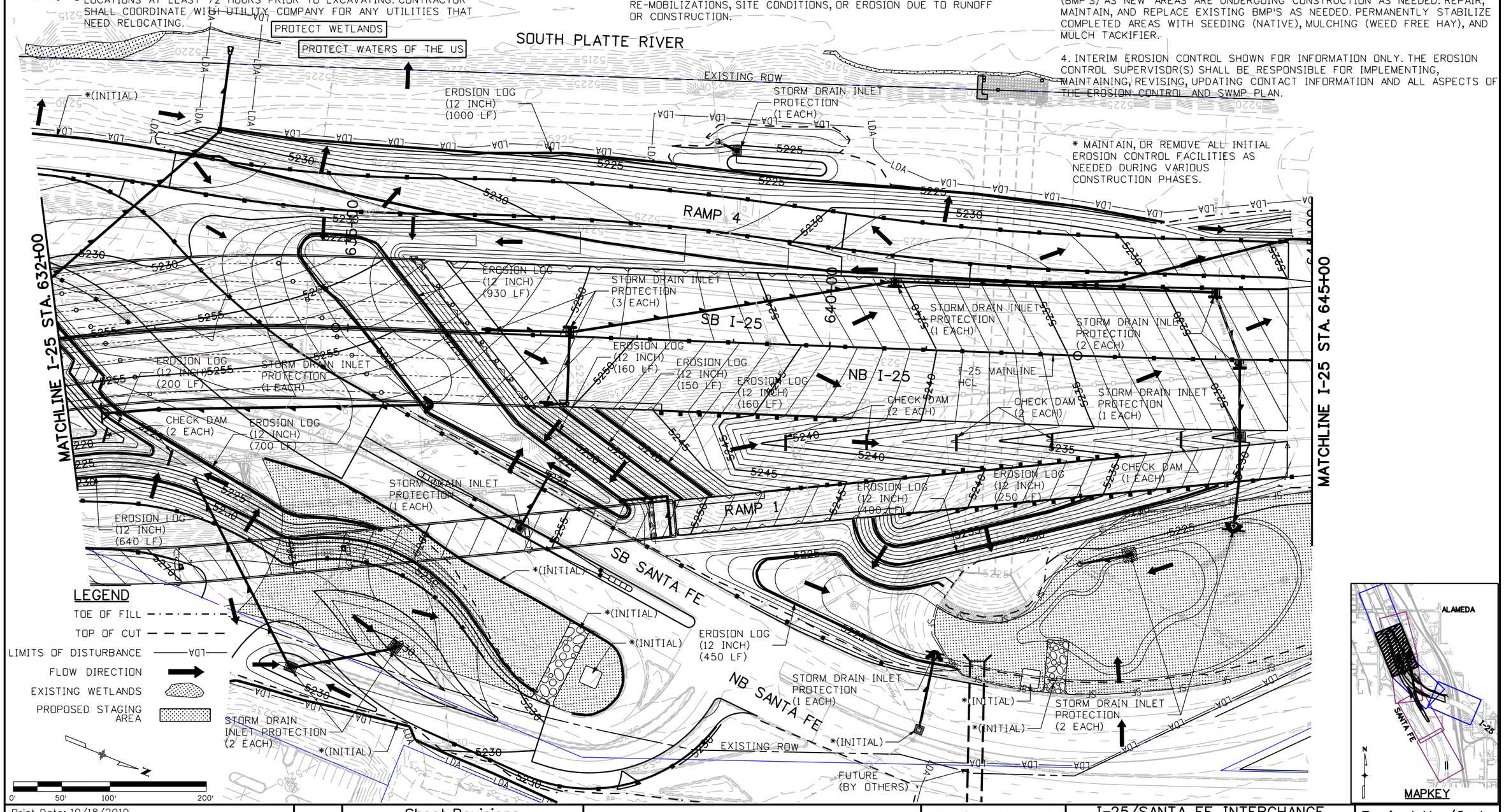

Print Date: 10/18/2010	Sheet Revisions		
File Name: 16311LAND_ENVI_PH2_INT_I-25Plan3.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 INTERIM
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets: EN-3 of 7	

Project No./Code
BR 0252-407
17783
Sheet Number 485

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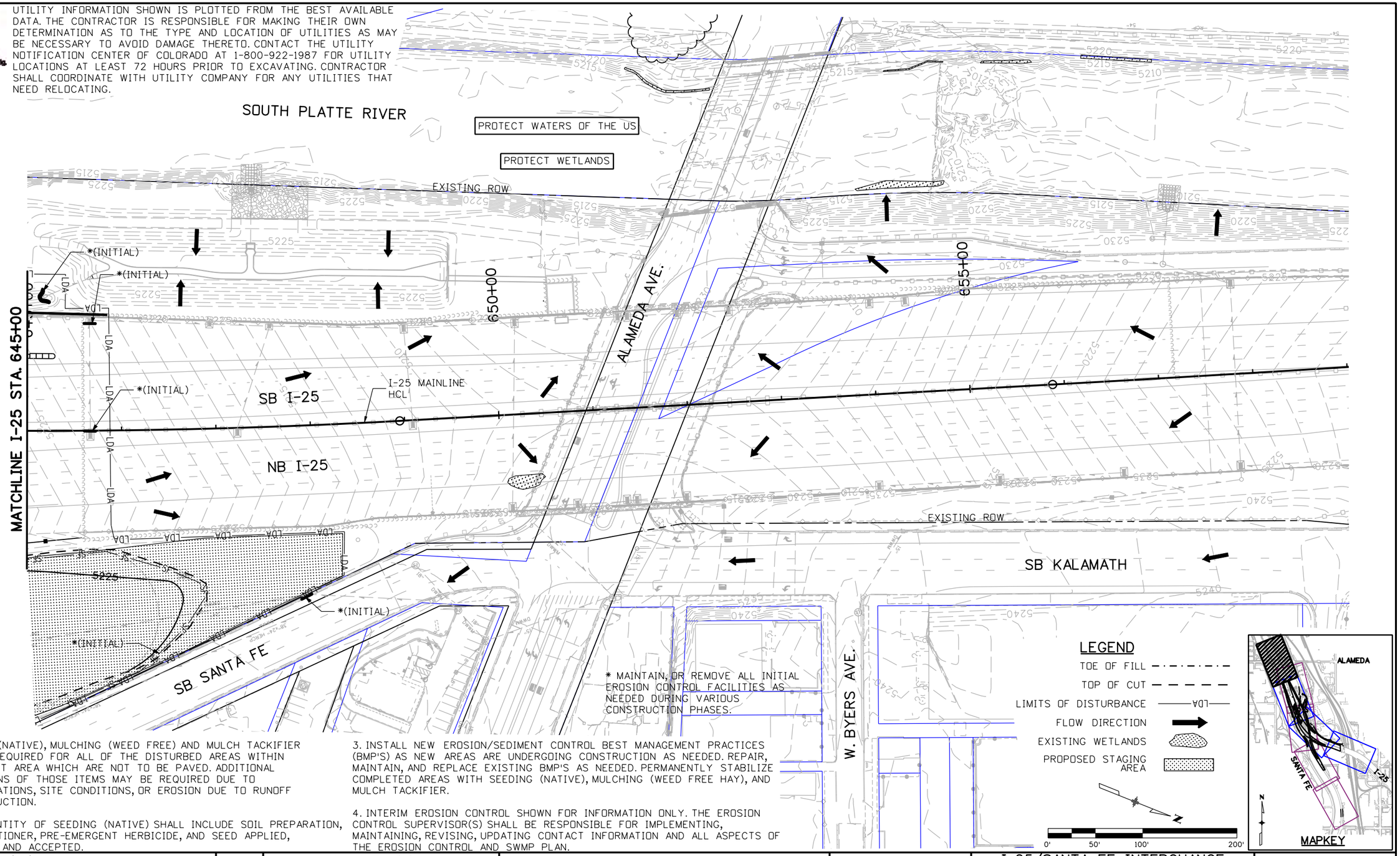

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Print Date: 10/18/2010
File Name: 16311LAND_ENVI_PH2_INT_I-25Plan4.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 INTERIM
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers
Subset Sheets: EN-4 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 486

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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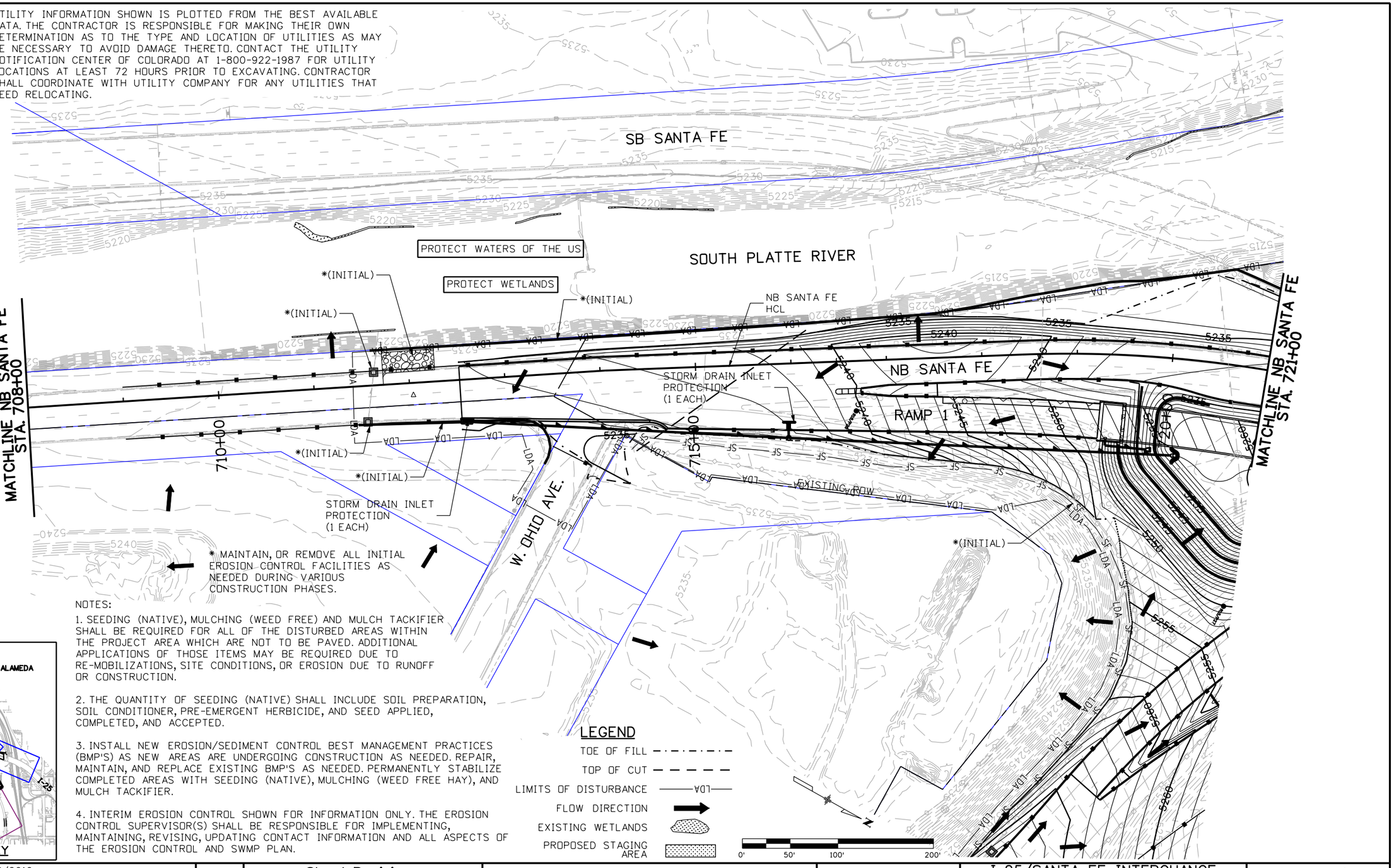

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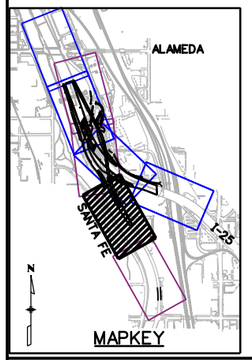

LEGEND

- TOE OF FILL
- TOP OF CUT
- LIMITS OF DISTURBANCE — LDA —
- FLOW DIRECTION
- EXISTING WETLANDS
- PROPOSED STAGING AREA

0' 50' 100' 200'

Print Date: 10/18/2010
File Name: 16311LAND_ENVI_PH2_INT_SantaFePlan1.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE INTERIM
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers:
Subset Sheets: EN-5 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 487

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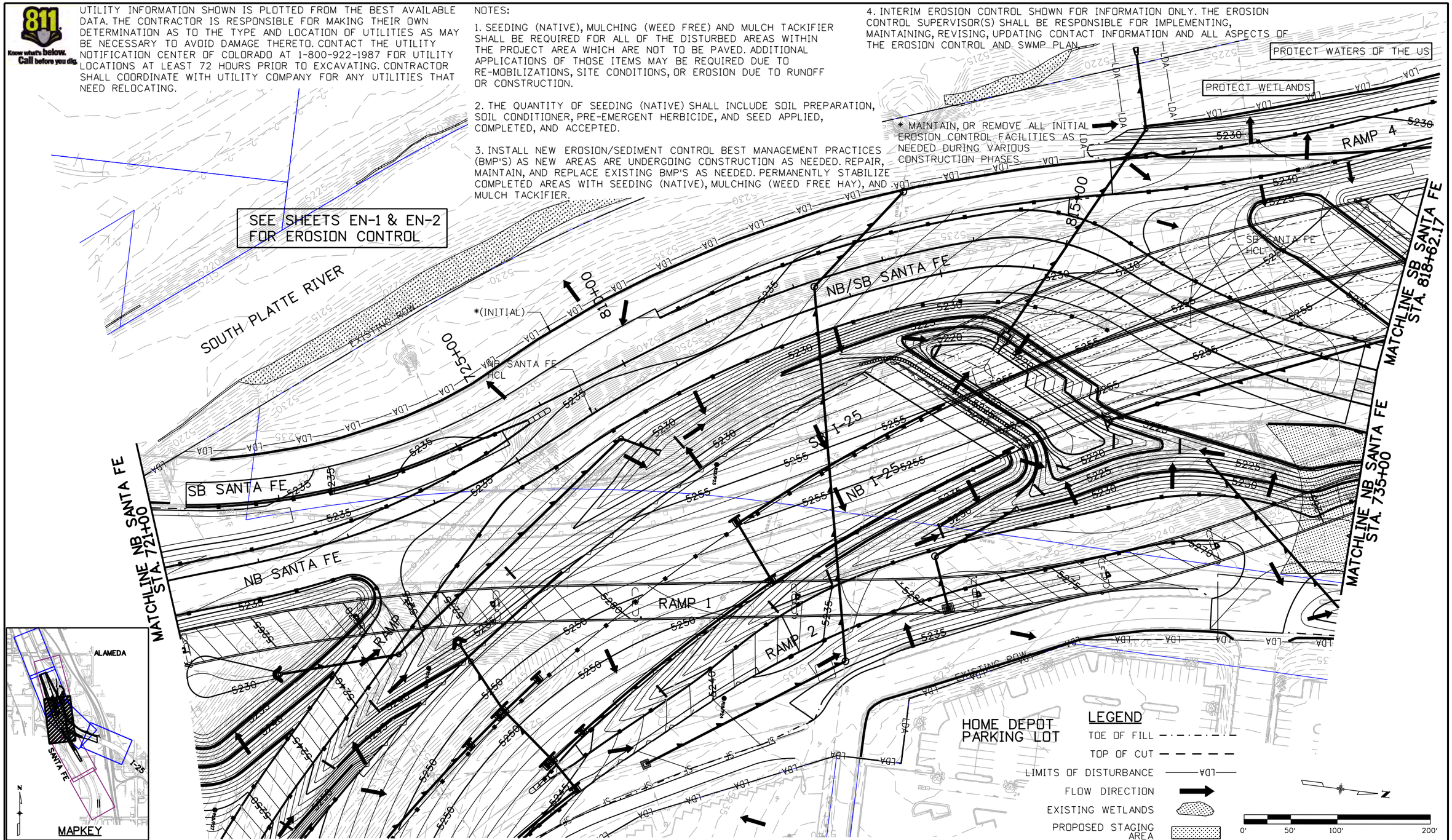

Print Date: 10/18/2010	Sheet Revisions	Colorado Department of Transportation
File Name: 16311LAND_ENVI_PH2_INT_SantaFePlan2.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114
Unit Information Unit Leader Initials		Region 6 RLB
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111		

As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE INTERIM GRADING/EROSION CONTROL PLAN		Project No./Code
No Revisions:	Designer: ELL	Structure Numbers	BR 0252-407
Revised:	Detailer: RSA		17783
Void:	Sheet Subset: EROSION	Subset Sheets: EN-6 of 7	Sheet Number 488

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

Know what's below. Call before you dig.

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SEE SHEETS EN-3 & EN-4 FOR EROSION CONTROL

RAMP 4
SB I-25
NB I-25
RAMP 1
RAMP 2
HOME DEPOT
SB SANTA FE
NB SANTA FE
EXISTING ROW
FUTURE (BY OTHERS)
MATCHLINE SB SANTA FE STA. 818+62.17
MATCHLINE NB SANTA FE STA. 735+00
SB SANTA FE HCL
NB SANTA FE HCL
CO-020.00
820+00
745+00
ALAMEDA STATION DEVELOPMENT

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LEGEND
- TOE OF FILL
- TOP OF CUT
- LIMITS OF DISTURBANCE — LDA —
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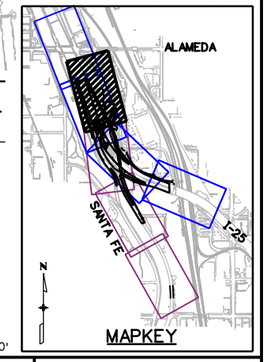
0' 50' 100' 200'



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Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE INTERIM
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers
Subset Sheets: EN-7 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 489

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RTD LIGHT RAIL
BROADWAY STATION

OFF RAMP TO BROADWAY

EXISTING ROW

610+00

615+00

SB I-25

NB I-25

I-25 MAINLINE
HCL

EXISTING ROW

MATCHLINE I-25 STA. 619+00

I-25 FRONTAGE ROAD

EXISTING ROW

CONSOLIDATED RAILROAD

S. CHEROKEE ST.

STOR. ALL STORAGE

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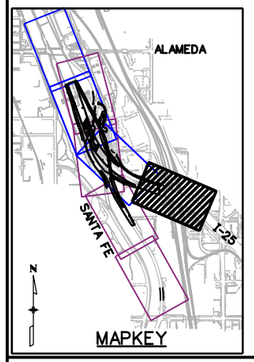

LEGEND

- TOE OF FILL
- TOP OF CUT
- LIMITS OF DISTURBANCE (LOD)
- FLOW DIRECTION
- EXISTING WETLANDS
- SOIL RETENTION BLANKET (STRAW/COCONUT)
- SOIL RETENTION BLANKET (SPECIAL)

0' 50' 100' 200'

Print Date: 10/18/2010
File Name: 16311LAND_ENVI_PH2_FIN_I-25Plan1.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

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Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
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I-25/SANTA FE INTERCHANGE
I-25 FINAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers:
Subset Sheets: EF-1 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 490

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PROTECT WETLANDS

PROTECT WATERS OF THE US

NB SANTA FE

SB SANTA FE

NB/SB SANTA FE

RAMP 1

RAMP 2

RAMP 3

RAMP 4

SB I-25

NB I-25

I-25 FRONTAGE ROAD

EXISTING ROW

SOIL RETENTION BLANKET (STRAW/COCONUT) (120 SY)

SOIL RETENTION BLANKET (SPECIAL) (560 SY)

SOIL RETENTION BLANKET (STRAW/COCONUT) (4190 SY)

SOIL RETENTION BLANKET (SPECIAL) (720 SY)

I-25 MAINLINE HCL

MATCHLINE I-25 STA. 619+00

MATCHLINE I-25 STA. 632+00

W. CENTER AVE.

U.S. WELDING

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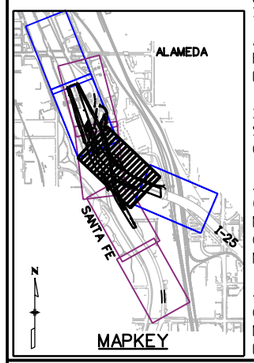

LEGEND

- TOE OF FILL
- TOP OF CUT
- LIMITS OF DISTURBANCE (LDA)
- FLOW DIRECTION
- EXISTING WETLANDS
- SOIL RETENTION BLANKET (STRAW/COCONUT)
- SOIL RETENTION BLANKET (SPECIAL)

0' 50' 100' 200'

Print Date: 10/18/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311LAND_ENVI_PH2_FIN_I-25Plan2.dgn	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way, Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE
I-25 FINAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets: EF-2 of 7	

Project No./Code: BR 0252-407

17783

Sheet Number 491

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10/18/2010 CDOT-PDFDraftQuality_XM.pltcfg *

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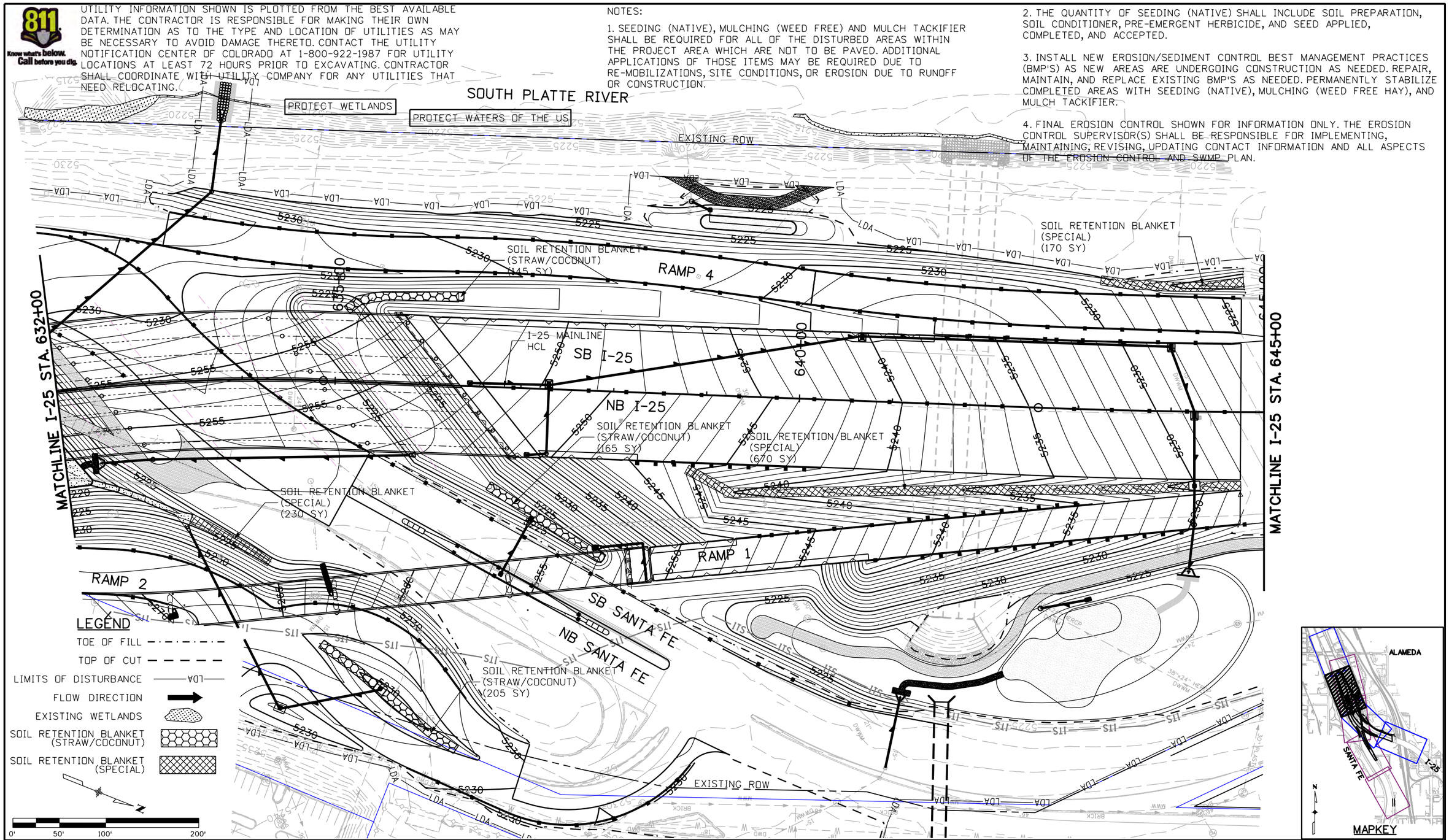

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File Name: 16311LAND_ENVI_PH2_FIN_I-25Plan3.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 FINAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers:
Subset Sheets: EF-3 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 492

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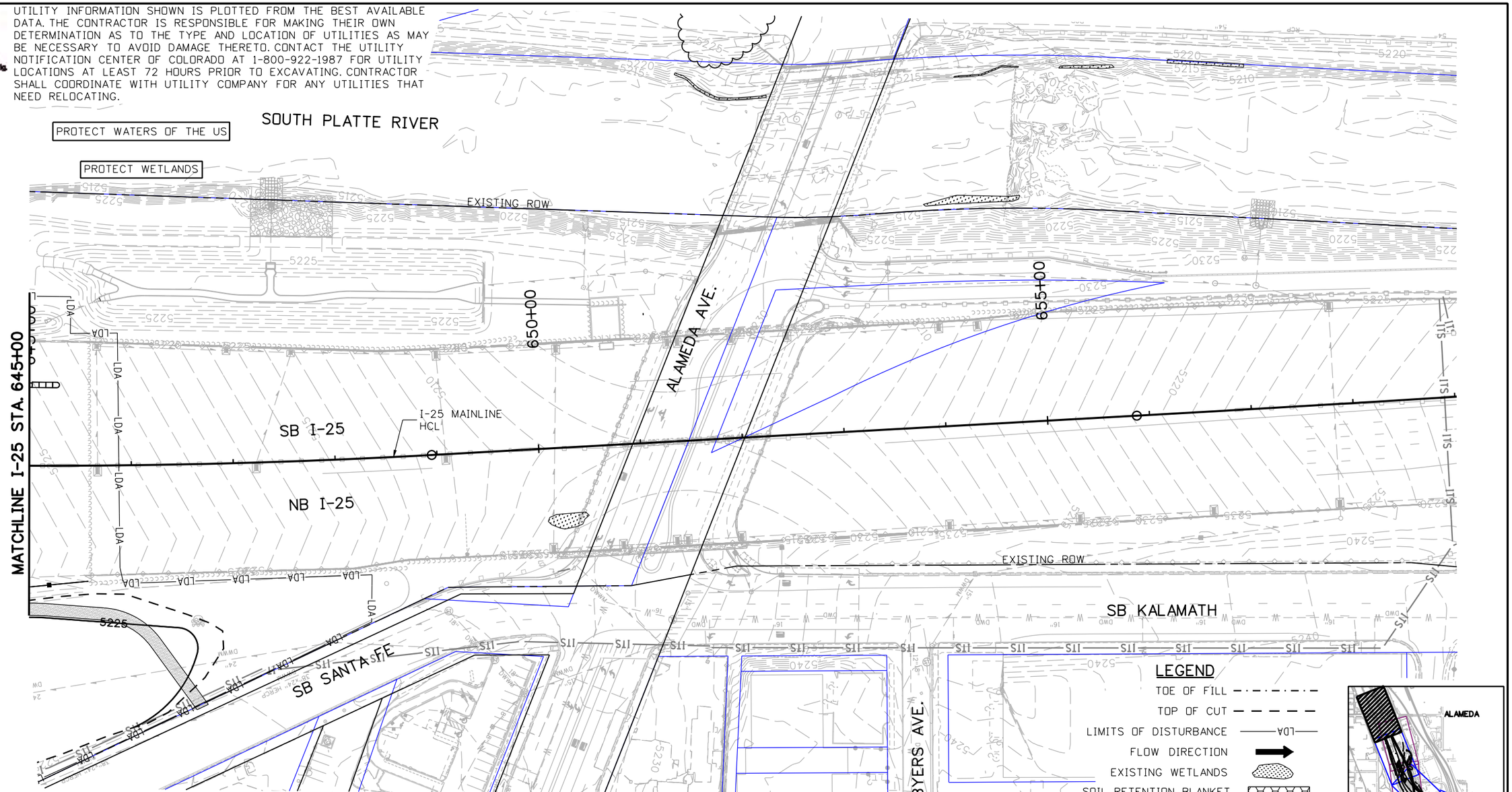

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Print Date:	10/18/2010
File Name:	16311LAND_ENVI_PH2_FIN_I-25Plan4.dgn
Horiz. Scale:	1:100
Vert. Scale:	As Noted
Unit Information	Unit Leader Initials

FELSBURG HOLT & ULLEVIG
6300 South Syracuse Way
Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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Void:

I-25/SANTA FE INTERCHANGE
I-25 FINAL
GRADING/EROSION CONTROL PLAN

Designer:	ELL	Structure Numbers	
Detailer:	RSA		
Sheet Subset:	EROSION	Subset Sheets:	EF-4 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 493

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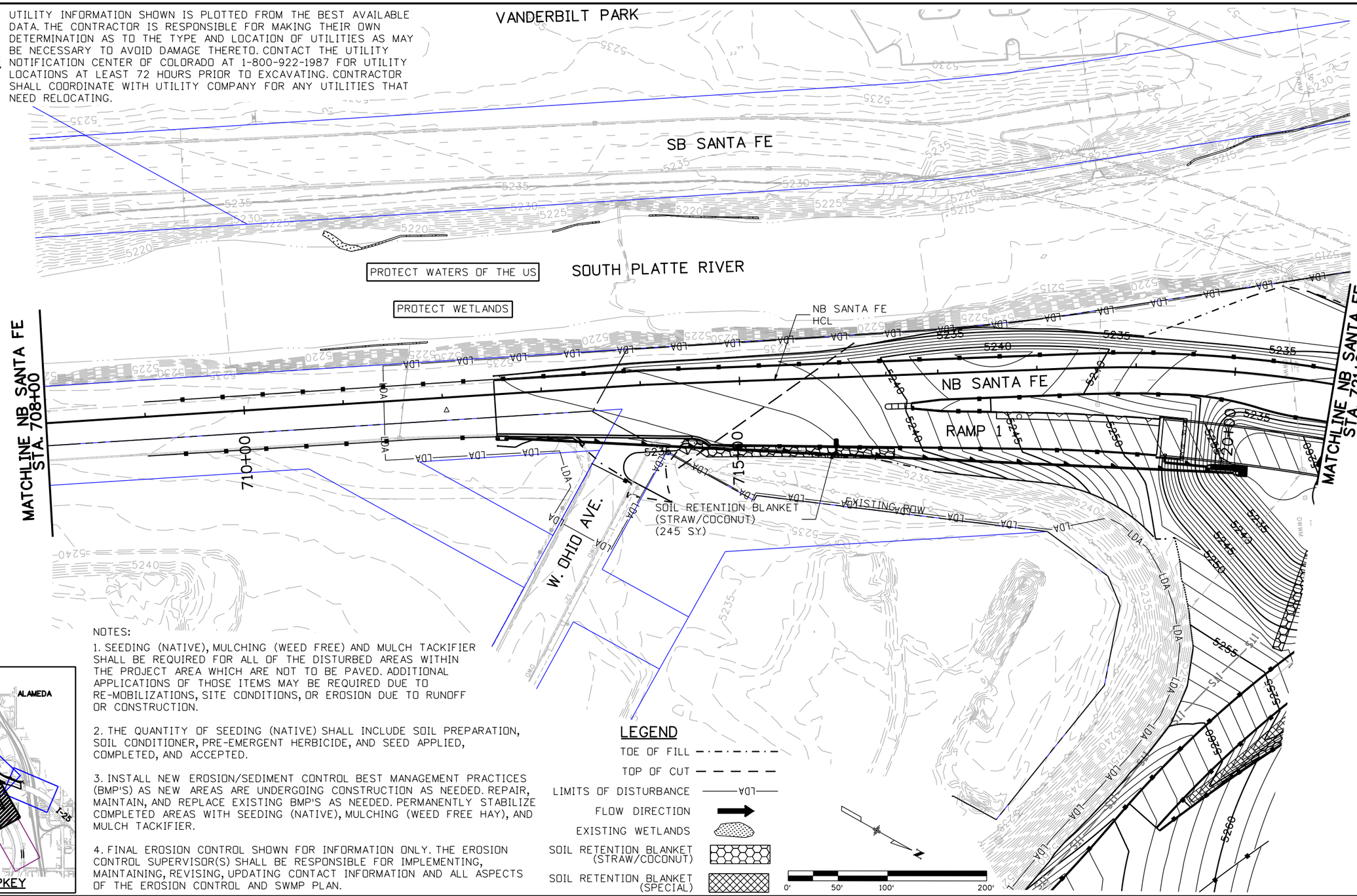

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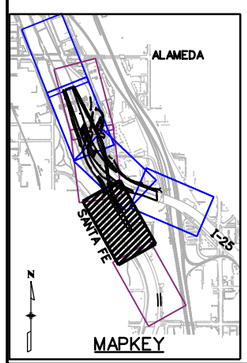

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0' 50' 100' 200'

Print Date: 10/18/2010	Sheet Revisions	
File Name: 16311LAND_ENVI_PH2_FIN_SantaFePlan1.dgn	Date: / Comments / Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted		
Unit Information Unit Leader Initials		
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111		

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE FINAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers:
Subset Sheets: EF-5 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 494

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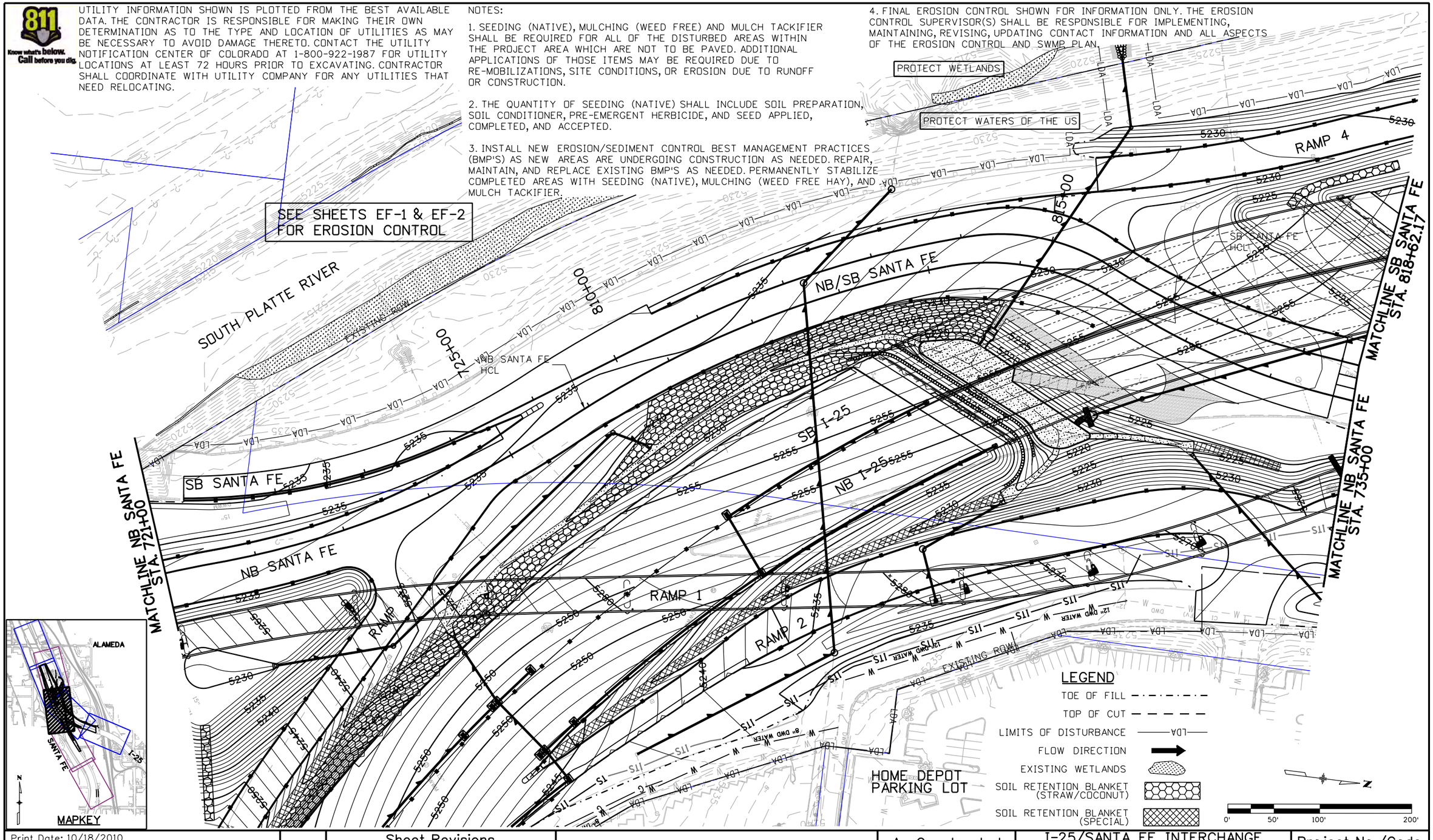

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Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
SANTA FE FINAL
GRADING/EROSION CONTROL PLAN

Designer: ELL
Detailer: RSA
Sheet Subset: EROSION
Structure Numbers
Subset Sheets: EF-6 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 495

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Know what's below. Call before you dig.

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SEE SHEETS EF-3 & EF-4 FOR EROSION CONTROL

RAMP 4
SB I-25
NB I-25
RAMP 1
RAMP 2
HOME DEPOT
SB SANTA FE
NB SANTA FE
EXISTING ROW
SB SANTA FE HCL
NB SANTA FE HCL
MATCHLINE SB SANTA FE STA. 818+62.17
MATCHLINE NB SANTA FE STA. 735+00
745+00
ALAMEDA STATION DEVELOPMENT

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MAPKEY

ALAMEDA
SANTA FE
I-25

Print Date: 10/18/2010
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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
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Colorado Department of Transportation
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I-25/SANTA FE INTERCHANGE
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Designer: ELL
Detailer: RSA
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Subset Sheets: EF-7 of 7

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BR 0252-407
17783
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DRAINAGE GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE, SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE CONSTRUCTION AREA. DEWATERING METHODS SHALL BE APPROVED BY THE ENGINEER. IF A DEWATERING PERMIT IS REQUIRED, THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE PERMIT AND THE COSTS ASSOCIATED WITH SAID PERMIT. DEWATERING IS PAID FOR IN ACCORDANCE WITH SECTION 109.04 UNDER FA DEWATERING.

2. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY PIPE LENGTHS AND LOCATIONS PRIOR TO ORDERING AND DELIVERY OF PIPE MATERIAL TO THE SITE.

3. NORTHING & EASTING INFORMATION FOR MANHOLES (SLAB BASE AND BOX BASE) IS TO THE CENTER OF THE BASE. NORTHING & EASTING HORIZONTAL CONTROLS HAVE BEEN ROUNDED OFF TO THE NEAREST HUNDREDTH OF A FOOT.

4. STRUCTURAL BACKFILL (FLOW-FILL) SHALL BE USED IN PLACE OF STRUCTURAL BACKFILL CLASS 1 FOR STORM SEWERS THAT ARE LOCATED UNDER ROADWAYS AND HAVE 2 FEET OR LESS OF COVER FROM TOP OF FINISHED SUBGRADE TO TOP OF PIPE. FLOW-FILL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PIPE.

5. INLET GRATE ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE DETERMINED IN THE FIELD.

6. ALL PIPE LENGTHS ARE HORIZONTAL DIMENSIONS AND HAVE BEEN ROUNDED UP TO THE NEAREST FOOT.

7. THE COST OF ALL JOINT GASKETS, CRADLES, COLLARS AND PIPE CONNECTIONS FOR STORM SEWER CONSTRUCTION AND CULVERT PIPES SHALL BE INCLUDED IN THE COST OF THE PIPE.

8. RUBBER GASKETS SHALL BE USED FOR ALL RCP JOINTS IN ACCORDANCE WITH ASTM C443.

9. ALL CONCRETE PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE (SULFATE RESISTANCE CLASS 3) CONFORMING TO ASTM C76, UNLESS OTHERWISE SPECIFIED.

10. THE TOP PORTION OF INLETS AND MANHOLES SHALL FIT THE LONGITUDINAL PROFILE SLOPE AND TYPICAL SECTIONS REQUIREMENTS. THE CONTRACTOR SHALL CROSS REFERENCE THIS INFORMATION PRIOR TO CONSTRUCTING INLETS AND MANHOLES TO FINAL GRADE.

11. OTHER UTILITIES WILL BE CROSSED OR OTHERWISE IMPACT STORM SEWER CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE.

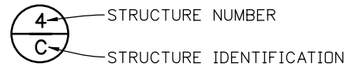
12. THE MANUFACTURER'S JOINT TOLERANCE FOR ALL PIPE TYPES USED SHALL BE SUPPLIED TO THE ENGINEER. FOR DEFLECTIONS GREATER THAN THE MANUFACTURER'S TOLERANCE A CONCRETE PIPE COLLAR SHALL BE USED. THE COST OF THE CONCRETE PIPE COLLAR SHALL BE INCLUDED IN THE COST OF THE PIPE.

13. BED COURSE MATERIAL AND GEOTEXTILE (DRAINAGE) REQUIRED WITH RIPRAP PROTECTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

14. MANHOLES DENOTED AS SPECIAL SHALL BE CONSTRUCTED ACCORDING TO THE CITY AND COUNTY OF DENVER DETAILS PROVIDED IN THIS SET.

15. ALL STORM SEWER OUTFALLS WITH REINFORCED CONCRETE END SECTIONS SHALL HAVE JOINT RESTRAINTS AT THE CONNECTION TO END SECTION AND THE NEXT JOINT UP.

DRAINAGE LEGEND



STRUCTURE IDENTIFICATION	STRUCTURE TYPE
C	CDOT TYPE C INLET
T16	TYPE 16 INLET (CCD INLET)
T14	TYPE 14 INLET (CCD INLET)
SVG	CDOT SINGLE VANE GRATE INLET
DVG	CDOT DOUBLE VANE GRATE INLET (SPECIAL)
DVGS	CDOT DOUBLE VANE GRATE INLET (SPECIAL)
MH	CDOT SLAB BASE MANHOLE (SIZE AS NOTED)
MHS	MANHOLE (SPECIAL) (CCD MANHOLE)
BMH	CDOT BOX BASE MANHOLE
FES	FLARED END SECTION
EX	EXISTING STRUCTURE (TYPE AS NOTED)
PC	PIPE CONNECTION
HW	HEADWALL
PE	PIPE END
PC	PIPE CONNECTION
BD	BRIDGE DRAIN

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Print Date: 10/19/2010
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Unit Information Unit Leader Initials

MULLER ENGINEERING CO, INC
CONSULTING ENGINEERS
P: 9904.12 /16311/HYDRAULICS/Drawings
777 S. Wadsworth Blvd.
Suite 4-100
Lakewood, CO 80226
303-988-4939

Sheet Revisions		
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I-25/SANTA FE INTERCHANGE
DRAINAGE GENERAL NOTES
SHEET 1 OF 2

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 1 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 497

CITY AND COUNTY OF DENVER GENERAL NOTES:

1. PUBLIC WORKS, WASTEWATER MANAGEMENT DIVISION'S STANDARD DETAILS AND TECHNICAL SPECIFICATIONS FOR SANITARY & STORM SEWERS APPLY TO THIS WORK. PUBLIC WORKS, WASTEWATER MANAGEMENT DIVISION'S STANDARD DETAILS (DRAWINGS), MOST RECENT EDITION, SHALL BE USED AS A MINIMUM. THIS BOOKLET IS AVAILABLE IN A REDUCED SIZE BOOKLET FORM AND IS AVAILABLE AT THE PUBLIC WORKS PERMIT OPERATIONS (PWPO) DURING NORMAL BUSINESS HOURS. THE TECHNICAL SPECIFICATIONS ARE AVAILABLE FROM PW DES. BOTH SETS MUST BE IN POSSESSION OF THE CONTRACTOR AT THE PRE-CONSTRUCTION CONFERENCE AND MUST REMAIN ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. THE STANDARD DETAILS CAN BE VIEWED AT THE FOLLOWING WEBSITE ADDRESS: WWW.DENVERGOV.ORG/DES

2. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.

3. ONE SET OF THE APPROVED SEWER CONSTRUCTION DRAWINGS MUST BE ON-SITE AT ALL TIMES OF CONSTRUCTION.

4. ALL SEWER PIPES SHALL BE INSTALLED WITH CLASS B BEDDING AS A MINIMUM.

5. ANY MODIFICATIONS, ADJUSTMENTS, CONSTRUCTION OR RECONSTRUCTION OF PUBLIC WORKS, WASTEWATER DIVISION FACILITIES MUST BE INSPECTED BY A PW DES CONSTRUCTION ENGINEERING INSPECTOR. PLEASE SCHEDULE AN APPOINTMENT AT 303-446-3722 A MINIMUM OF 48 HOURS IN ADVANCE OF THE WORK TO SCHEDULE AN INSPECTOR.

6. PIPE MATERIAL, FITTINGS, TRENCHING, BEDDING, CONNECTIONS, AND SEWER INSTALLATION MUST BE INSPECTED BY A PW DES CONSTRUCTION ENGINEERING INSPECTOR PRIOR TO ANY TRENCH BACKFILL. PLEASE SCHEDULE AN APPOINTMENT AT 303-446-3722 A MINIMUM OF 48 HOURS IN ADVANCE OF THE WORK TO SCHEDULE AN INSPECTOR. MONITORING OF THE PROJECT BY PW DES SHALL BE FOR THE PURPOSE OF ASSURING GENERAL COMPLIANCE WITH THE APPROVED PLANS, STANDARDS, DETAILS, AND SPECIFICATIONS AS WELL AS THE RULES & REGULATIONS. STORM AND SANITARY INSPECTIONS SHALL NOT TAKE THE PLACE OF CONSTRUCTION INSPECTION AND MATERIALS TESTING, WHICH IS THE OWNER'S RESPONSIBILITY.

7. SANITARY SEWER PIPES SHALL BE PVC AND CONFORM TO: ASTM D3034 SDR 35 FOR SIZES 8 INCHES TO 15 INCHES IN DIAMETER (SOLID WALL), ASTM F789 FOR 18 INCHES (SOLID WALL), ASTM F679 FOR SIZES 18 TO 36 INCHES (SOLID WALL), ASTM F949 FOR SIZES 8 TO 36 INCHES (PVC PROFILE WALL), ASTM F794 FOR SIZES 8 TO 48 INCHES (PROFILE WALL), OR ASTM F1803 FOR SIZES 18 TO 60 INCHES (CLOSED PROFILE GRAVITY PIPE).

8. ANY QUESTIONS REGARDING PUBLIC WORKS STORM OR SANITARY FACILITIES THAT ARISE DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF PW DES CONSTRUCTION ENGINEERING INSPECTION AT (303) 446-3722.

9. BACKFILL IN PUBLIC RIGHT OF WAY MUST MEET THE REQUIREMENTS OF DENVER PUBLIC WORKS DEPARTMENT. A STREET CUT PERMIT AND INSPECTION OF A BACKFILL AND PAVEMENT REPAIR BY PUBLIC WORKS IS REQUIRED FOR ALL WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR AND/OR DEVELOPER IS ADVISED TO CONTACT CONSTRUCTION ENGINEERING ROW INSPECTION AT 303-446-3469 OR PWPO AT 303-446-3759 TO OBTAIN INFORMATION REGARDING FEES AND PROCEDURES FOR OBTAINING THE REQUIRED PERMIT(S). CONTRACTOR MUST OBTAIN A STREET CUT PERMIT AND NOTIFY THE DISTRICT INSPECTOR AT (303) 446-3469, 48-HOURS PRIOR TO START OF JOB. COMPACTION TESTING IS REQUIRED.

10. THE CONTRACTOR PERFORMING WORK ON ANY PUBLIC OR PRIVATE STORM SEWER FACILITY OR APPURTENANCE MUST BE PROPERLY TRADE LICENSED AS A COMPANY AND HAVE A LICENSED PLUMBER OR CERTIFIED JOURNEYMAN DRAINLAYER ON SITE DURING THE WORK.

11. ACCESS MUST BE MAINTAINED FOR ALL SEWER MANHOLES DURING CONSTRUCTION. ANY DESIGN CHANGES TO NEW OR EXISTING PUBLIC STORM OR SANITARY SEWER MUST INCLUDE PERMANENT ACCESS TO THE PUBLIC STORM AND SANITARY SEWER MANHOLES AND COULD REQUIRE ROLL-OVER CURB, COMMERCIAL DRIVE, REINFORCED CONCRETE SIDEWALK, RITTER RINGS OR CONCRETE PAD. MINIMUM ACCESS TO EACH MANHOLE IS A 20' WIDE LANE FROM THE NEAREST PUBLIC RIGHT OF WAY, CENTERED AT THE MANHOLE INCLUDING A 10' RADIUS AROUND THE MANHOLE AND 22.0' VERTICAL CLEARANCE.

CITY AND COUNTY OF DENVER GENERAL NOTES (CONTINUED):

12. THE CONNECTION OF A NEW SANITARY/STORM SEWER TO AN EXISTING MANHOLE MAY REQUIRE MANHOLE RECONSTRUCTION AT THE DISCRETION OF THE PW DES CONSTRUCTION ENGINEERING FIELD INSPECTOR OR THE PW DES CONSTRUCTION ENGINEERING ENGINEER.

13. CHANGES IN THE ELEVATION OF AN EXISTING BRICK MANHOLE MAY REQUIRE THE USE OF A PRE-CAST CONCRETE MANHOLE OR MANHOLE RECONSTRUCTION AT THE DISCRETION OF THE PW DES CONSTRUCTION ENGINEERING FIELD INSPECTOR AND/OR PW DES CONSTRUCTION ENGINEERING ENGINEER.

14. CHANGES IN ELEVATION OR MODIFICATION TO EXISTING INLETS MAY REQUIRE RECONSTRUCTION AT THE DISCRETION OF THE PW DES CONSTRUCTION ENGINEERING INSPECTOR OR DES ENGINEER.

15. THE CONTRACTOR SHALL BE AWARE THAT WHEN DEBRIS IS DROPPED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES, THE CONTRACTOR IS TO IMMEDIATELY REMOVE THIS TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.

16. THE CONTRACTOR SHALL MAKE SURE THAT ALL MANHOLES AND OTHER STRUCTURES ARE BUILT TO FINISHED GRADE.

17. NO TREES SHALL BE PLANTED WITHIN ANY SEWER EASEMENT OR WITHIN TEN (10) FEET OF ANY PUBLIC MANHOLES, PIPES OR INLETS.

18. "AS-BUILT" MYLAR DRAWINGS AND PRINTS ARE TO BE SUBMITTED TO PWPRS AT COMPLETION OF THE PROJECT. "AS-BUILT" MYLAR DRAWINGS ARE TO BE REPRODUCIBLE COPIES (OR ORIGINALS) OF THE APPROVED CONSTRUCTION DRAWINGS. ANY FIELD CHANGES ARE TO BE NOTED. THE DRAWINGS WILL STATE "AS-BUILT" IN LARGE BLOCK LETTERS. THE "AS-BUILT" MYLARS AND/OR PRINTS ARE TO BE SIGNED, DATED AND STAMPED BY A COLORADO REGISTERED ENGINEER.

19. AS-BUILT FIELD NOTES, FROM WHICH THE AS-BUILT DRAWINGS ARE PREPARED, ARE TO BE PROVIDED AND STAMPED/SIGNED AND DATED BY THE COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR. THESE NOTES WILL INCLUDE THE STATIONING OF ANY BUILDING SEWER STUBS INSTALLED.

20. UPON COMPLETION OF SITE GRADING AND SEWER CONSTRUCTION, THE OWNER OR DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING THE PWPRS A CERTIFICATE OF INSPECTION PREPARED BY THE COLORADO REGISTERED ENGINEER WHO PERFORMED OR SUPERVISED CONSTRUCTION INSPECTION, CERTIFYING THAT:

   A) A CONSTRUCTION INSPECTOR WAS ON THE JOB SITE AT ALL TIMES SEWER OR DRAINAGE FACILITY WORK WAS PERFORMED,
   B) ALL STORM AND SANITARY SEWER FACILITIES, SITE GRADING, DETENTION POND GRADING AND OUTLET WORKS (IF ANY) WERE CONSTRUCTED IN COMPLIANCE WITH PLANS AND SPECIFICATIONS APPROVED BY THE DEPARTMENT OF PUBLIC WORKS
   C) THE AS-BUILT DRAWINGS INCLUDED ACCURATELY DEPICT THE FINAL INSTALLATION OF THE STORM DRAINAGE AND/OR SEWER SYSTEM.

   THIS CERTIFICATION SHALL BE REQUIRED FOR ALL STORM AND SANITARY SEWER FACILITIES IN ADDITION TO ANY INSPECTIONS MADE BY THE DIVISION OR THE DEPARTMENT OF PUBLIC WORKS.

21. DENVER WATER DEPARTMENT NOTE ALL PERSONS AND ENTITIES INVOLVED IN THIS PROJECT SHALL HAVE THE RESPONSIBILITY TO TAKE WHATEVER STEPS NECESSARY TO PROTECT ALL WATER FACILITIES. IF ANY WATER FACILITY CANNOT BE ADEQUATELY PROTECTED, THEN SAID WATER FACILITIES SHALL BE RELOCATED OR REMOVED IN ACCORDANCE WITH DENVER WATER DEPARTMENT REQUIREMENTS.

Print Date: 10/19/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311HYDR_PH2_Denver Water Notes.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:1 Vert. Scale: As Noted				Region 6 RLB	Revised:
Unit Information Unit Leader Initials					Void:
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings 777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939					

I-25/SANTA FE INTERCHANGE DRAINAGE GENERAL NOTES SHEET 2 OF 2				Project No./Code
				BR 0252-407
Designer: JAY	Structure Numbers			17783
Detailer: KSP				
Sheet Subset: DRAINAGE	Subset Sheets: 2 of 53			Sheet Number 498

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REMOVAL QUANTITIES

(1)

STATION	OFFSET	NORTHING	EASTING	REMOVE INLET	REMOVE PIPE	REMOVE MANHOLE	REMOVE END SECTION	FLOWFILL	PLUG CULVERT	REMARKS
				EA	LF	EA	EA	CY	EA	
644+04.75	*156.87 LT*	*681549.4*	*960199.65*						1	I-25 HCL ALIGNMENT
		TO			97					
644+02.63	57.08 LT	681580.49	960289.11	1						
		TO			68					
644+30.62	6.47 RT	681631.18	960341.35	1						
		TO			135					
644+10.75	42.15 RT	681661.05	960475.22				1			
638+75.99	*207.76 LT*	*681037.41*	*960327.98*							I-25 HCL ALIGNMENT
		TO			79					
638+86.52	127.31 LT	681074.44	960400.27	1						
		TO			164					
639+50.40	28.16 RT	681186.70	960525.18	1						
		TO			169					
639+94.55	194.58 RT	681284.25	960667.11	1						
		TO			42					
640+17.28	236.09 RT	681319.73	960698.54			1				
		TO			28					
640+35.75	267.46 RT	681347.47	960721.92			1				
		TO			139					
641+07.30	393.71 RT	681457.29	960816.79							
		TO			59					
641+25.38	336.1 RT	681454.98	960756.49	1						
638+10.82	*31.02 RT*	*681054.51*	*960575.66*	1						I-25 HCL ALIGNMENT
		TO			138					
639+50.40	28.16 RT	681186.70	960525.18							
617+96.02	*88.03 LT*	*679539.89*	*961809.34*	1						I-25 HCL ALIGNMENT
619+06.08	102.65 LT	679565.95	961701.34	1						
616+86.41	*54.75 LT*	*679531.52*	*961923.55*							I-25 HCL ALIGNMENT
		TO			47					
616+95.64	8.3 LT	679578.28	961931.65							
		TO			153					
618+28.78	70.22 RT	679699.42	961835.66	1						
		TO						14		15" STORM PIPE
621+44.44	60.92 RT	679810.79	961547.92	1						
		TO						8		15" STORM PIPE
622+18.04	80.96 LT	679720.44	961415.00	1						
		TO			133					
622+70.87	205.34 LT	679641.96	961302.97			1				
		TO			75					
623+04.00	275.36 LT	679601.91	961234.21	1						
		TO			21					
623+1290	299.89 LT	679586.70	961212.35							
629+61.68	*15.93 RT*	*680288.7*	*960913.8*	1						I-25 HCL ALIGNMENT
		TO			65					
629+29.03	44.79 LT	*680225.75*	*960885.29*							
SUBTOTAL				**14**	**1612**	**3**	**1**	**22**	**1**	

(2)

STATION	OFFSET	NORTHING	EASTING	REMOVE INLET	REMOVE PIPE	REMOVE MANHOLE	REMOVE END SECTION	FLOWFILL	PLUG CULVERT	REMARKS
				EA	LF	EA	EA	CY	EA	
621+44.44	*60.92 RT*	*679810.79*	*961547.92*							I-25 HCL ALIGNMENT
		TO			224					
623+80.76	76.46 RT	679940.87	961361.20	1						
		TO			88					
624+01.56	12.96 LT	679878.60	961292.28			1				
		TO			101					
624+23.28	116.4 LT	679807.54	961213.73			1				
623+84.64	*29.39 LT*	*679855.39*	*961296.82*							I-25 HCL ALIGNMENT
		TO			25					
623+81.40	55.78 LT	679831.81	961284.62	1						
		TO			51					
623+62.43	106.86 LT	679778.42	961272.12	1						
		TO			61					
624+23.26	116.38 LT	679807.70	961213.70							
625+78.96	*140.42 LT*	*680104.39*	*961252.78*							I-25 HCL ALIGNMENT
		TO			225					
624+01.56	12.96 RT	679878.60	961292.28							
626+32.72	*107.66 RT*	*680113.78*	*961193.48*	1						I-25 HCL ALIGNMENT
		TO			133					
627+65.84	53.59 RT	680165.19	961064.76			1				
		TO			53					
628+24.72	47.21 RT	680203.38	961022.42	1						
		TO			135					
629+29.03	44.79 LT	680225.75	960885.29	1						
		TO			18					
629+33.74	65.89 LT	680216.78	960865.62	1						
		TO			114					
630+46.57	77.69 LT	680305.22	960787.53							
629+33.74	*65.89 LT*	*680216.78*	*960865.62*							I-25 HCL ALIGNMENT
		TO			98					
628+56.63	125.96 LT	680115.96	960869.58	1						
631+19.84	*185.04 RT*	*680506.87*	*960970.36*	1						I-25 HCL ALIGNMENT
		TO			196					
629+49.29	60.01 RT	680305.39	960956.16							
718+65.34	*57.31 LT*	*679326.98*	*961164.52*						1	NB SF HCL ALIGNMENT
		TO			80					
718+60.33	37.15 RT	679373.56	961254.35	1						
		TO			296					
715+62.01	71.02 RT	679137.18	961438.62	1						
720+82.33	*91.43 RT*	*679586.7*	*961212.35*							NB SF HCL ALIGNMENT
		TO			171					
718+98.95	150.35 RT	679460.65	961334.93	1						
721+42.50	*51.36 LT*	*679595.66*	*961072.38*							NB SF HCL ALIGNMENT
		TO			16					
721+47.13	34.3 LT	679605.30	961072.38							
SUBTOTAL				**12**	**2085**	**3**	**0**	**0**	**1**	

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Sheet Revisions

Date:	Comments	Init.
1/03/2011	FLOWFILL TO CY	JAY

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I-25/SANTA FE INTERCHANGE
DRAINAGE REMOVALS TABULATIONS
SHEET 1 OF 2

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 3 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 499 B

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REMOVAL QUANTITIES

(3)

STATION	OFFSET	NORTHING	EASTING	REMOVE INLET EA	REMOVE PIPE LF	REMOVE MANHOLE EA	REMOVE END SECTION EA	FLOWFILL CY	PLUG CULVERT EA	REMARKS
722+15.24	*51.79 LT*	*679661.83*	*961034.84*	1						NB SF HCL ALIGNMENT
		TO			66					
721+42.50	51.36 LT	679595.66	961057.75	1						
		TO			11					
721+37.64	62.52 LT	679587.28	961048.78						1	
624+56.75	*122.48 LT*	*679824.02*	*961181.45*	1						I-25 HCL ALIGNMENT
		TO			32					
624+23.27	116.45 LT	679807.70	961213.70							MH COUNTED IN NO (2)
		TO			214					
623+12.94	299.81 LT	679586.70	961212.35							
729+79.94	*94.54 LT*	*680303.7*	*960608.58*							NB SF HCL ALIGNMENT
		TO			176					
729+16.70	72.15 RT	680305.22	960787.53			1				
		TO			162					
728+34.41	225.84 RT	680305.39	960956.16			1				
		TO			156					
727+25.17	364.23 RT	680304.15	961114.99							
730+82.31	*46.77 RT*	*680437.54*	*960719.86*	1						NB SF HCL ALIGNMENT
		TO			144					
729+16.70	72.15 RT	*680305.22*	*960787.53*							
732+03.59	*17.20 LT*	*680559.61*	*960677.52*	1						NB SF HCL ALIGNMENT
		TO			156					
732+76.37	163.51 LT	680679.28	960572.69			1				
		TO			88					
733+48.62	240.97 LT	680754.37	960516.56	1						
		TO			32					
733+65.99	210.09 LT	680758.08	960549.44							
732+29.24	*162.19 LT*	*680644.75*	*960559.21*	1						NB SF HCL ALIGNMENT
		TO			35					
732+76.37	163.51 LT	*680679.28*	*960572.69*							
733+35.86	*123.85 LT*	*680711.61*	*960626.02*	1						NB SF HCL ALIGNMENT
		TO			57					
732+76.37	163.51 LT	*680679.28*	*960572.69*							
733+34.85	*35.22 LT*	*680684.76*	*960710.46*	1						NB SF HCL ALIGNMENT
		TO			42					
733+83.05	43.62 LT	680731.08	960714.41							
		TO			90					
733+87.48	50.57 RT	680713.64	960807.17	1						
		TO			60					
733+96.05	114.12 RT	680708.76	960871.20			1				
734+43.84	*54.28 LT*	*680788.81*	*960715.16*							NB SF HCL ALIGNMENT
		TO			172					
733+96.05	114.12 RT	*680708.76*	*960871.20*							
SUBTOTAL				**10**	**1693**	**4**	**0**	**0**	**1**	

(4)

STATION	OFFSET	NORTHING	EASTING	REMOVE INLET EA	REMOVE PIPE LF	REMOVE MANHOLE EA	REMOVE END SECTION EA	FLOWFILL CY	PLUG CULVERT EA	REMARKS
735+23.36	*26.35 LT*	*680862.56*	*960752.68*							NB SF HCL ALIGNMENT
		TO			44					
735+47.92	66.87 LT	680891.94	960715.54	1						
735+34.94	*27.34 RT*	*680867.54*	*960807.33*							NB SF HCL ALIGNMENT
		TO			153					
735+06.82	180.06 RT	680820.74	960955.39							
724+38.52	*36.10 LT*	*679858.58*	*960951.76*	1						NB SF HCL ALIGNMENT
		TO			58					
724+42.96	96.05 LT	679828.38	960898.55							
COLUMN (1)				14	1612	3	1	22	1	
COLUMN (2)				12	2085	3	0	0	1	
COLUMN (3)				10	1693	4	0	0	1	
COLUMN (4)				2	255	0	0	0	0	
TOTAL				**38**	**5645**	**10**	**1**	**22**	**3**	

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R-2

Sheet Revisions

Date:	Comments	Init.
1/03/2011	FLOWFILL TO CY	JAY

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I-25/SANTA FE INTERCHANGE
DRAINAGE REMOVALS TABULATIONS
SHEET 2 OF 2

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 4 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 500 B

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12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

STRUCTURE QUANTITIES

STRUCTURE NUMBER	NORTHING	EASTING	INLET (SULFATE RESISTANCE CLASS 3) (EACH)									MANHOLE (SULFATE RESISTANCE CLASS 3) (EACH)							15" POLYVINYL CHLORIDE PIPE	REINFORCED CONCRETE PIPE (CIP) (SULFATE RESISTANCE CLASS 3)				REINFORCED CONCRETE END SECTIONS (SULFATE RESISTANCE CLASS 3)				REINFORCED ELLIPTICAL CONCRETE PIPE (CIP) SULFATE RESISTANCE CLASS 3				MODIFY INLET	ADJUST MANHOLE	MODIFY MANHOLE	CONCRETE (CLASS D)	REINFORCING STEEL (EPOXY COATED)	CONCRETE SLOPE AND DITCH PAVING	SOIL RIPRAP (D50 = 9 INCH)	REMARKS
			TYPE C		TYPE D	TYPE 16	TYPE 14 (L=12')	DOUBLE VANE GRATE			DOUBLE VANE GRATE (SPECIAL)	SLAB BASE			SPECIAL					18 INCH	24 INCH	30 INCH	48 INCH					38"(S) X 24"(R)	30"(S) X 19"(R)	30"(S) X 19"(R) END SECTION	83"(S) X 53"(R)								
			H		H	H	H	H			H	H			H					EA																	
			5	10	5	5	12	5	10	15	10	5	10	20	5	10	15	20	LF	LF	LF	LF	LF	18"	24"	30"	48"	LF	LF	EA	LF	EA	EA	EA	CY	LBS	CY	CY	
	SB 5.0																																						
1	681681.19	960496.88																																					
	TO																												47									
2	681668.51	960450.38											1																										
	TO																												39									
3	681653.45	960411.50		1																																	2		
	TO																												72									
4	681623.72	960337.29						1																															
	TO																												72									
5	681573.5	960278.33						1																															
	TO																				330																	
6	681260.71	681260.71							1																														
	TO																			339																		
7	680969.35	960571.76						1																															
	TO																		82																			
8	*BRIDGE DRAIN*																																						SEE BRIDGE PLANS
	SB 5.1																																						
7	680969.35	960571.76						1																															
	TO																			69																		
9	680993.03	960638.17										1																											
	TO																		19																			
10	*BRIDGE DRAIN*																																						SEE BRIDGE PLANS
	SB 6.0																																						
11	679981.82	961178.66							1																														
	TO																			48																		
12	679950.06	961217.27								1																													
	TO																				5																	
13	679945.29	961223.27							1																														
	TO																			42																		
14	679918.25	961258.28							1																														
	TO																			207																		
15	679802.72	961432.26						1																															
	NB 4.0																																						
16	679887.77	961146.22																								1												
	TO																												18									
17	679904.99	961166.28												1																									
	TO																												60									
12	*679950.06*	*961217.27*						1																															
	TO																												68									
18	680007.89	961263.44							1																														
	TO																				35																	
19	680037.21	961291.74									1																												
	TO																				132																	
20	679947.07	961389.95							1																														
	TO																				109																	
21	679881.16	961478.44							1																														
	TO																				237																	
22	679771.75	961689.04							1																														
	SUBTOTALS		**0**	**1**	**0**	**0**	**0**	**6**	**8**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**101**	**705**	**848**	**146**	**0**	**0**	**0**	**1**	**0**	**230**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	

Print Date: 12/20/2010		Sheet Revisions	
File Name: 16311HYDR_PH2_STR TABS01.dgn		Date:	Comments
Horiz. Scale: 1:1 Vert. Scale: As Noted	R-2	1/03/2011	RCP IS COMP. IN PLACE
Unit Information Unit Leader Initials			
MULLER MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings			
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Sheet Revisions		
Init.		
JAY		

Colorado Department of Transportation

DOT DEPARTMENT OF TRANSPORTATION

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

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I-25/SANTA FE INTERCHANGE
DRAINAGE STRUCTURE TABULATIONS
SHEET 1 OF 4

Designer:	JAM	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	5 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 501 B

Korina 11:13:48 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_STR TABS01.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

STRUCTURE QUANTITIES

STRUCTURE NUMBER	NORTHING	EASTING	INLET (SULFATE RESISTANCE CLASS 3) (EACH)									MANHOLE (SULFATE RESISTANCE CLASS 3) (EACH)							15" POLYVINYL CHLORIDE PIPE	REINFORCED CONCRETE PIPE (CIP) (SULFATE RESISTANCE CLASS 3)				REINFORCED CONCRETE END SECTIONS (SULFATE RESISTANCE CLASS 3)				REINFORCED ELLIPTICAL CONCRETE PIPE (CIP) SULFATE RESISTANCE CLASS 3				MODIFY INLET	ADJUST MANHOLE	MODIFY MANHOLE	CONCRETE (CLASS D)	REINFORCING STEEL (EPOXY COATED)	CONCRETE SLOPE AND DITCH PAVING	SOIL RIPRAP (D50 = 9 INCH)	REMARKS
			TYPE C		TYPE D	TYPE 16	TYPE 14 (L = 12')	DOUBLE VANE GRATE			DOUBLE VANE GRATE (SPECIAL)	SLAB BASE			SPECIAL					18 INCH	24 INCH	30 INCH	48 INCH					38"(S) X 24"(R)	30"(S) X 19"(R)	30"(S) X 19"(R) END SECTION	83"(S) X 53"(R)								
			H		H	H	H	H			H	H			H									EA													
			5	10	5	5	5	5	10	15	10	5	10	20	5	10	15	20	LF	LF	LF	LF	LF	18"	24"	30"	48"	LF	LF	EA	LF	EA	EA	EA	CY	LBS	CY	CY	
NB 4.0, CONTINUED																																						
22	*679771.75*	*961689.04*																																				
	TO																			204																	
23	679697.66	961881.33							1																													
NB 4.1																																						
24	680003.12	961269.43							1																													
	TO																			6																	
18	*680007.89*	*961263.43*																																				
	TO																				42																
25	680035.93	961229.28							1																													
	TO																				258																
26	680218.09	961043.90						1																														
	TO																		288																		
27	*BRIDGE DRAIN*																																					SEE BRIDGE PLANS
NB 4.2																																						
26	680218.09	961043.9							1																													
	TO																				62																
28	680172.32	960985.64							1																													
	TO																		248																		
29	*BRIDGE DRAIN*																																					SEE BRIDGE PLANS
NB 4.3																																						
22	*679771.75*	*961656.87*																																				
	TO																			80																	
30	679692.32	691656.87						1																														
	TO																			205																	
31	679617.45	961850.28						1																														
SANTA FE 1.0																																						
32	680554.94	960824.24																																				
	TO																																					
33	680602.4	960801.02													1																							
	TO																																					
34	680862.49	960691.69																																				
SANTA FE 2.0																																						
36	679531.59	961245.26																																				
	TO																																					
37	679168.74	961427.38													1																							
	TO																			330																	
38	678865.74	961575.57					1																															
SANTA FE 2.1																																						
37	*679168.74*	*961427.38*																																				
	TO																			7																	
39	679164.24	961419.88						1																														
SUBTOTALS			0	0	0	0	1	4	5	0	0	0	0	0	2	0	0	0	536	832	760	0	0	0	1	0	0	0	324	1	0	0	0	0	0	0	0	3	

Print Date: 12/20/2010	R-2	Sheet Revisions	
File Name: 16311HYDR_PH2_STR TABS02.dgn		Date:	Comments
Horiz. Scale: 1:1 Vert. Scale: As Noted		1/03/2011	RCP IS COMP. IN PLACE
Unit Information Unit Leader Initials			
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Region 6 RLB

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Void:

I-25/SANTA FE INTERCHANGE
DRAINAGE STRUCTURE TABULATIONS
SHEET 2 OF 4

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 6 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 502 B

Karina 11:14:06 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_STR TABS02.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

STRUCTURE QUANTITIES

STRUCTURE NUMBER	NORTHING	EASTING	INLET (SULFATE RESISTANCE CLASS 3) (EACH)									MANHOLE (SULFATE RESISTANCE CLASS 3) (EACH)							15" POLYVINYL CHLORIDE PIPE	REINFORCED CONCRETE PIPE (CIP) (SULFATE RESISTANCE CLASS 3)				REINFORCED CONCRETE END SECTIONS (SULFATE RESISTANCE CLASS 3)				REINFORCED ELLIPTICAL CONCRETE PIPE (CIP) SULFATE RESISTANCE CLASS 3				MODIFY INLET	ADJUST MANHOLE	MODIFY MANHOLE	CONCRETE (CLASS D)	REBAR	CONCRETE SLOPE AND DITCH PAVING	SOIL RIPRAP (D50 = 9 INCH)	REMARKS
			TYPE C		TYPE D	TYPE 16	TYPE 14 (L=12')	DOUBLE VANE GRATE			DOUBLE VANE GRATE (SPECIAL)	SLAB BASE			SPECIAL					18 INCH	24 INCH	30 INCH	48 INCH					38"(S) X 24"(R)	30"(S) X 19"(R)	30"(S) X 19"(R) END SECTION	83"(S) X 53"(R)								
			H		H	H	H	H			H	H			H					EA																	
			5	10	5	5	12	5	10	15	10	5	10	20	5	10	15	20	LF	LF	LF	LF	LF	18"	24"	30"	48"	LF	LF	EA	LF	EA	EA	EA	CY	LBS	CY	CY	
	SANTA FE 3.0																																						
40	681444.38	960742.96																																					
	TO																			75																			
41	*681457.29*	*960816.79*																														1							
	SANTA FE 4.0																																						
63	681004.72	960704.22																						1													2		
	TO																			58																			
64	680995.52	960776.72				1																																	
	HOME DEPOT 1.0																																						
46	680663.28	960854.30																						1															
	TO																			213																			
47	680828.70	960998.18	1																																		2		
	TO																			108																			
48	680921.10	960939.02	1																																		2		
	HOME DEPOT 2.0																																						
49	680467.66	960930.57																						1															
	TO																			95																			
50	680385.54	960992.80													1																								
	TO																			54																			
51	680406.71	961046.81	1																																		2		
	HOME DEPOT 3.0																																						
61	679168.74	961427.38																1																					
	TO																			237																			
62	680104.74	961252.57																														1							
	RAMP 3 1.0																																						
42	680078.61	960918.92																									1												
	TO																					36																	
43	680035.58	960908.79										1																											
	TO																					328																	
44	679826.99	961168.34											1																										
	TO																					125																	
45	679699.80	961206.34																									1												
	RAMP 4 POND																																						
52	681037.45	960327.97													1																								
	TO																			22																			
53	681059.36	960329.13	1																																		2		
	CENTER STREET OUTFALL																																						
59	680303.70	960608.58																1																					
	TO																															133							
60	680221.30	960721.56																1																					
	TO																															396							
61	679168.74	961427.38																1																					
SUBTOTALS			**4**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**1**	**1**	**0**	**4**	**0**	**862**	**0**	**489**	**0**	**3**	**0**	**2**	**0**	**0**	**0**	**0**	**529**	**2**	**0**	**0**	**0**	**0**	**8**	**2**	

Print Date: 12/20/2010
File Name: 16311HYDR_PH2_STR TABS03.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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303-988-4939

R-2

Sheet Revisions

Date:	Comments	Init.
1/03/2011	RCP IS COMP. IN PLACE	JAY

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2000 South Holly Street
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Region 6 RLB

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Revised:
Void:

I-25/SANTA FE INTERCHANGE
DRAINAGE STRUCTURE TABULATIONS
SHEET 3 OF 4

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 7 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 503 B

Karina 11:14:23 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_STR TABS03.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

STRUCTURE QUANTITIES

STRUCTURE NUMBER	NORTHING	EASTING	INLET (SULFATE RESISTANCE CLASS 3) (EACH)									MANHOLE (SULFATE RESISTANCE CLASS 3) (EACH)							15" POLYVINYL CHLORIDE PIPE	REINFORCED CONCRETE PIPE (CIP) (SULFATE RESISTANCE CLASS 3)				REINFORCED CONCRETE END SECTIONS (SULFATE RESISTANCE CLASS 3)				REINFORCED ELLIPTICAL CONCRETE PIPE (CIP) SULFATE RESISTANCE CLASS 3				MODIFY INLET	ADJUST MANHOLE	MODIFY MANHOLE	CONCRETE (CLASS D)	REINFORCING STEEL (EPOXY COATED)	CONCRETE SLOPE AND DITCH PAVING	SOIL RIPRAP (D50 = 9 INCH)	REMARKS
			TYPE C		TYPE D	TYPE 16	TYPE 14 (L=12')	DOUBLE VANE GRATE			DOUBLE VANE GRATE (SPECIAL)	SLAB BASE			SPECIAL					18 INCH	24 INCH	30 INCH	48 INCH					38"(S) X 24"(R)	30"(S) X 19"(R)	30"(S) X 19"(R) END SECTION	83"(S) X 53"(R)								
			H		H	H	H	H			H	H			H									EA													
			5	10	5	5	12	5	10	15	10	5	10	20	5	10	15	20	LF	LF	LF	LF	LF	18"	24"	30"	48"	LF	LF	EA	LF	EA	EA	EA	CY	LBS	CY	CY	
NB SANTA FE POND OUTFALL																																						
65	680532.22	960424.29																																				
	TO																						79															
66	680554.01	960509.96														1																						
	TO																						263															
67	680433.25	960745.83																																				
EAST ALAMEDA POND OUTFALL																																						
68	681548.53	960595.41														1																						
	TO																			48																		
69	681592.59	960567.52			1																															2		
70	679539.89	961809.34										1																										
71	679565.94	961701.33										1																										
MISCELLANEOUS STRUCTURES																																						
	681666.86	960607.44																															1					
	680731.08	960714.41																															1					
	679500.62	961255.15																																	1	17		10	
	679596.99	961190.19																																	1	17		2	
	679778.86	961135.59																																	1	17		2	
	679921.76	961104.27																																	1	17			
	680244.45	961056.50																																	1	17			
	680436.07	961025.34																																	1	17		2	
	680571.04	960987.49																																	1	17		3	
	680682.99	960942.32																																	1	17		3	
	680835.35	960865.47																																	1	17		9	
	681085.44	960709.45																																	1	17		2	
	679586.71	961212.35																																			1			
SUBTOTAL SHEET 1			0	1	0	0	0	6	8	1	1	1	1	1	0	0	0	0	101	705	848	146	0	0	0	1	0	230	0	0	0	0	0	0	0	0	2	0	
SUBTOTAL SHEET 2			0	0	0	0	1	4	5	0	0	0	0	0	2	0	0	0	536	832	760	0	0	0	1	0	0	0	324	1	0	0	0	0	0	0	0	3	
SUBTOTAL SHEET 3			4	0	0	1	0	0	0	0	0	1	1	0	1	1	0	4	0	862	0	489	0	3	0	2	0	0	0	0	529	2	0	0	0	0	8	2	
SUBTOTAL SHEET 4			0	0	1	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	48	0	342	0	0	0	0	0	0	0	0	0	2	1	10	170	2	33	
TOTAL			**4**	**1**	**1**	**1**	**1**	**10**	**13**	**1**	**1**	**2**	**4**	**1**	**3**	**2**	**1**	**4**	**637**	**2399**	**1656**	**635**	**342**	**3**	**1**	**3**	**0**	**230**	**324**	**1**	**529**	**2**	**2**	**1**	**10**	**170**	**12**	**38**	

Print Date: 12/20/2010
File Name: 16311HYDR_PH2_STR TABS04.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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303-988-4939

R-2

Sheet Revisions		
Date:	Comments	Init.
1/03/2011	NB SANTA FE OUTFALL	JAY

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Region 6 RLB

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No Revisions:
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Void:

I-25/SANTA FE INTERCHANGE
DRAINAGE STRUCTURE TABULATIONS
SHEET 4 OF 4

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 8 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 504 B

Korina 11:14:3 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_STR TABS04.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

STRUCTURE QUANTITIES

STRUCTURE NUMBER	NORTHING	EASTING	CONCRETE (CLASS D)	REBAR	STRUCTURE EXCAVATION	STRUCTURE BACKFILL (CLASS 2)	SOIL RIPRAP TYPE D50 = 9 INCH	FILTER MATERIAL (SPECIAL)	AGGREGATE BASE COARSE	FILTER MATERIAL (CLASS C)	4" PERFORATED PIPE UNDREDRAIN	GROUTED BOULDERS	CLAY PLATING	TOPSOIL [2]	OUTLET STRUCTURE	FLAP GATE[1] 48 INCH	SHORING (AREA 7)	REMARKS
			CY	LBS	CY	CY	CY	CY	CY	CY	LF	CY	CY	CY	EA	EA	LS	
1	681681.19	960496.88	7	525	19		24											
32	680554.94	960824.21	6	417	13		11											
40	681444.38	960742.96	5	378	11		44											
65	680532.96	960427.18	14	651	24	12	23					36		8		1	1	NB SANTA FE OUTFALL
RAMP 4 POND																		
POND								78		35	105							
MAINTENANCE ROAD									37									
EAST ALAMEDA POND																		
POND								634		282	646		1190					
MAINTENANCE ROAD									186									
NORTHBOUND SANTA FE POND																		
POND			139	15727	148		65					281			1			
MAINTENANCE ROAD									123									
RAMP 3 SWALE			79	8826	85													
RAMP 2 SWALE			15	1406	14													
NORTH SWALE			15	1600	16													
TOTAL			**280**	**29530**	**330**	**12**	**167**	**712**	**346**	**317**	**751**	**317**	**1190**	**8**	**1**	**1**	**1**	

[1] FLAP GATE 48 INCH WILL BE PAID FOR AS ITEM 615 48 INCH AUTOMATIC DRAIN GATE.

[2] INCLUDED FOR INFORMATION ONLY. TOPSOIL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN COST OF WORK.

Print Date: 12/20/2010
File Name: 16311HYDR_PH2_MISC TABS01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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R-2

Sheet Revisions

Date:	Comments	Init.
1/03/2011	UPDATED STRUCT 65	JAY

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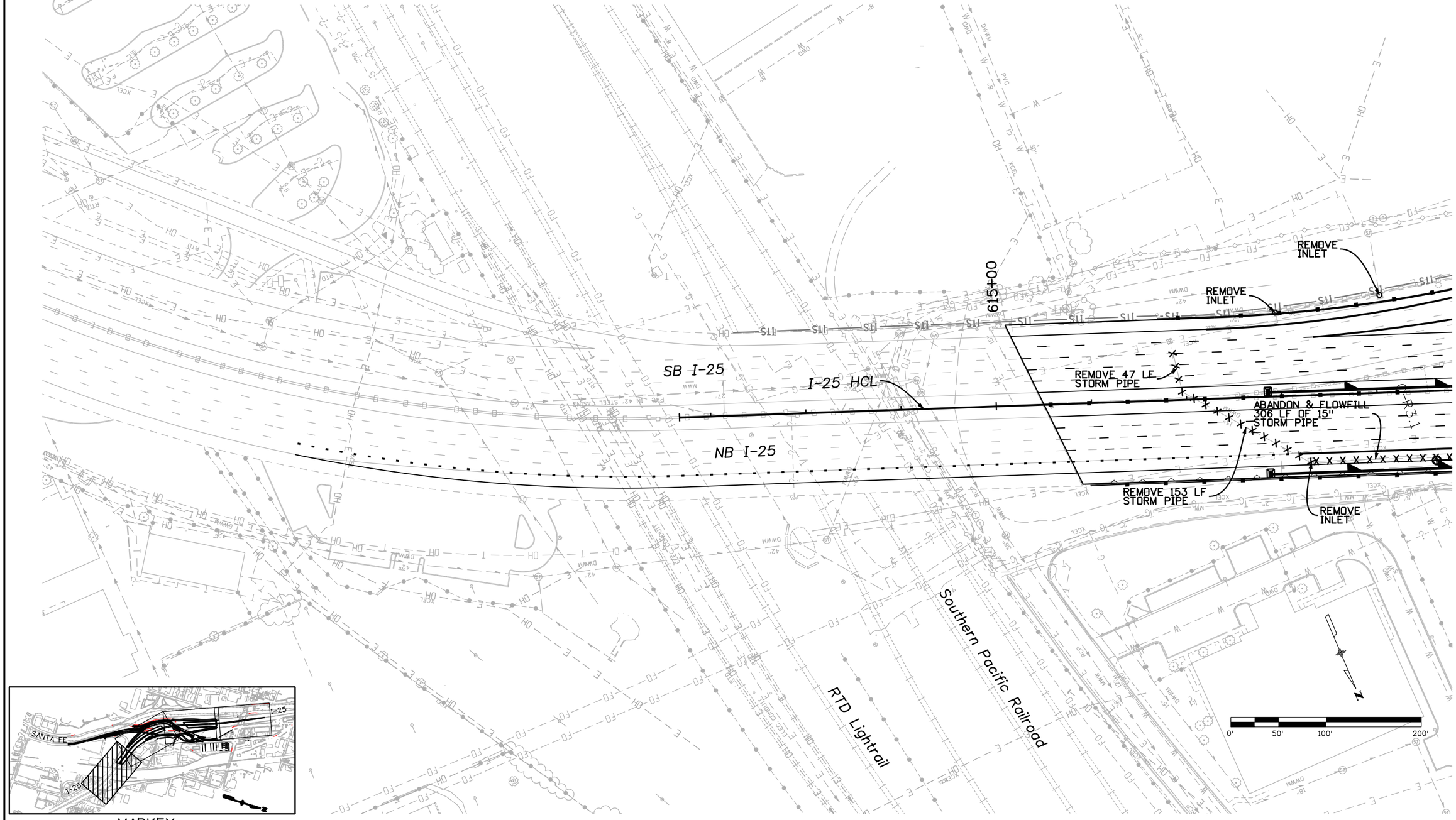
I-25/SANTA FE INTERCHANGE
MISCELLANEOUS DRAINAGE
TABULATIONS

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 9 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 505 B

Korina 11:15:00 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_MISC TABS01.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl



MAPKEY

Print Date: 12/20/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311_ME_HYDR_PH2_PLAN_RMVL I25_01.dgn	R-2	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted		1/03/2011	ADDED PIPE SIZE	JAY	Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings		777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939			

As Constructed	I-25/SANTA FE INTERCHANGE I-25 DRAINAGE REMOVAL PLAN SHEET 1 OF 3			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: JAM	Structure Numbers		17783
Void:	Detailer: KSP			Sheet Number 506 B
	Sheet Subset: DRAINAGE	Subset Sheets: 10 of 53		

Korina 11:15:16 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_PLAN_RMVL I25_01.dgn
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl

REMOVE 21 LF STORM PIPE
REMOVE MANHOLE
SEE SANTA FE REMOVAL PLAN
REMOVE INLET
REMOVE 75 LF STORM PIPE
REMOVE MANHOLE
REMOVE 214 LF STORM PIPE
REMOVE 133 LF STORM PIPE
REMOVE MANHOLE
REMOVE 61 LF STORM PIPE
REMOVE 51 LF STORM PIPE
REMOVE 101 LF STORM PIPE
REMOVE INLET
REMOVE INLET
REMOVE 25 LF STORM PIPE
ABANDON & FLOWFILL 158 LF OF 15" STORM PIPE
24" RCP
REMOVE MANHOLE
REMOVE 88 LF STORM PIPE
REMOVE 224 LF STORM PIPE
REMOVE INLET
REMOVE INLET
ABANDON & FLOWFILL 302 LF OF 15" STORM PIPE
REMOVE 32 LF STORM PIPE
REMOVE INLET
SEE SANTA FE REMOVAL PLAN
REMOVE 225 LF STORM PIPE
REMOVE INLET
REMOVE 133 LF STORM PIPE
REMOVE 135 LF STORM PIPE
REMOVE 98 LF STORM PIPE
REMOVE INLET
REMOVE 18 LF STORM PIPE
REMOVE INLET
REMOVE 65 LF STORM PIPE
REMOVE INLET
REMOVE 114 LF
REMOVE MANHOLE
REMOVE INLET
REMOVE 51 LF STORM PIPE
REMOVE 196 LF STORM PIPE
REMOVE INLET
SEE SANTA FE REMOVAL PLAN
SEE SANTA FE REMOVAL PLAN
REMOVE INLET
S. Platte River
SB Santa Fe
NB Santa Fe
SB I-25
NB I-25
I-25 HCL
Ramp 3
Ramp 2
Ramp 1
Home Depot Access Road
Home Depot
115+00
120+00
125+00
130+00
135+00
140+00
145+00
0'
50'
100'
200'
MAPKEY
SANTA FE
I-25

Print Date: 12/20/2010		Sheet Revisions			
File Name: 16311_ME_HYDR_PH2_PLAN_RMVL I25_02.dgn		Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/03/2011	ADDED PIPE SIZE	JAY	
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
I-25 DRAINAGE REMOVAL PLAN
SHEET 2 OF 3

Designer:	JAM	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	11 of 53

Project No./Code	
BR 0252-407	
17783	
Sheet Number	507 B

Korina 11:15:41 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_PLAN_RMVL I25_02.dgn
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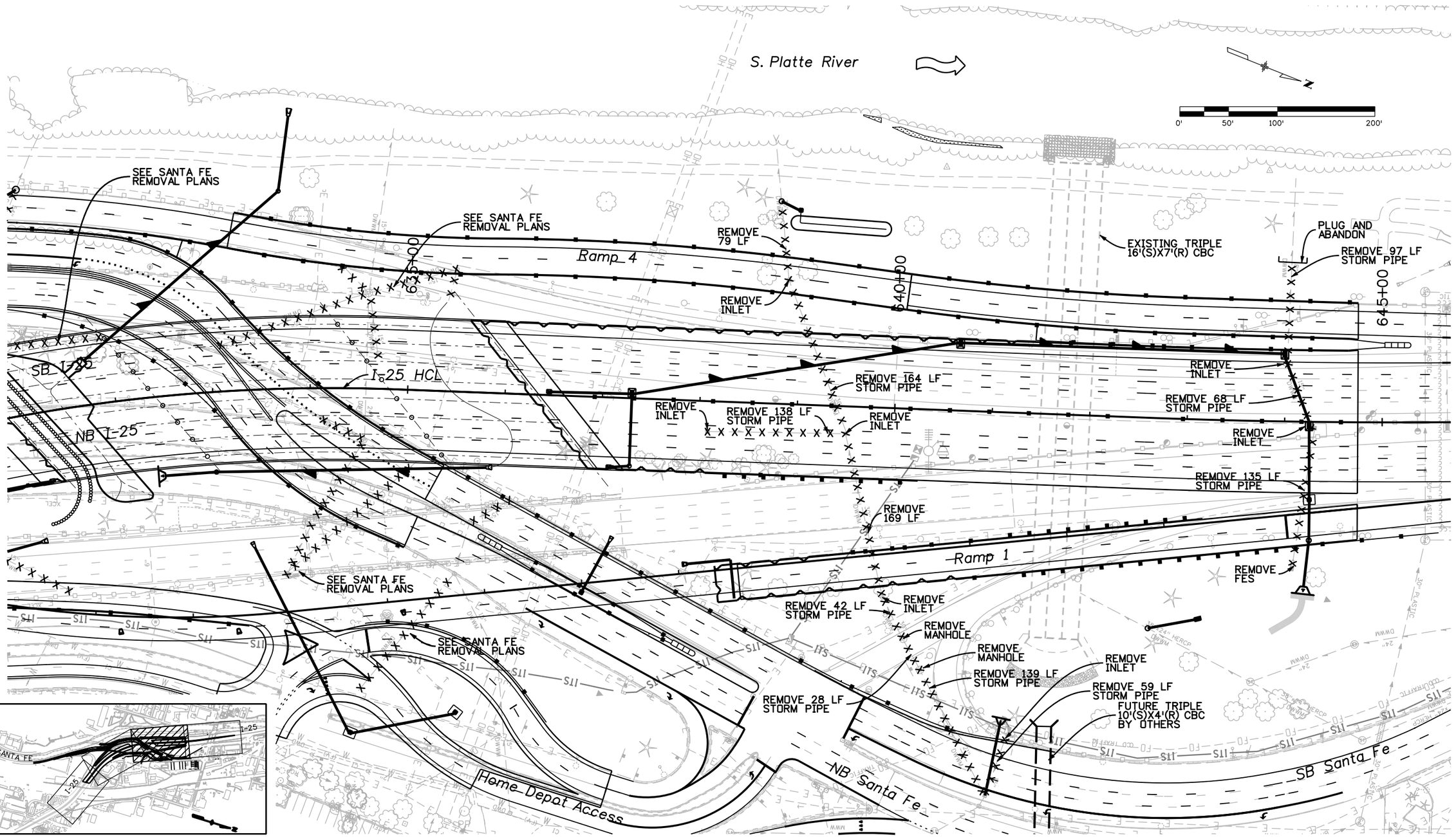

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Unit Information Unit Leader Initials			
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS 777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939			
P: 9904.12 /16311/HYDRAULICS/Drawings			

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2000 South Holly Street
Denver, CO 80222
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Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE I-25 DRAINAGE REMOVAL PLAN SHEET 3 OF 3

Designer:	JAM	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	12 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 508

SB Santa Fe

S. Platte River

NB Santa Fe HCL

NB Santa Fe

SB Santa Fe HCL

PLUG AND ABANDON PIPE

REMOVE INLET

REMOVE 11 LF

REMOVE INLET

REMOVE 66 LF STORM PIPE

PLUG AND ABANDON PIPE
REMOVE 80 LF STORM PIPE

REMOVE 296 LF STORM PIPE

REMOVE INLET

REMOVE INLET

REMOVE 16 LF

Ramp 1

710+00

715+00

720+00

SEE I-25 REMOVAL PLANS

REMOVE INLET

REMOVE 171 LF STORM PIPE

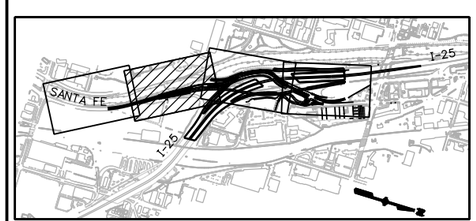
305+00

SEE I-25 REMOVAL PLANS

Ramp 3

SB I-25

0' 50' 100' 200'



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Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE DRAINAGE REMOVAL PLAN SHEET 1 OF 2		Project No./Code
No Revisions:	Designer:	Structure Numbers	BR 0252-407
Revised:	Detailer: JHK		17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 13 of 53	Sheet Number 509

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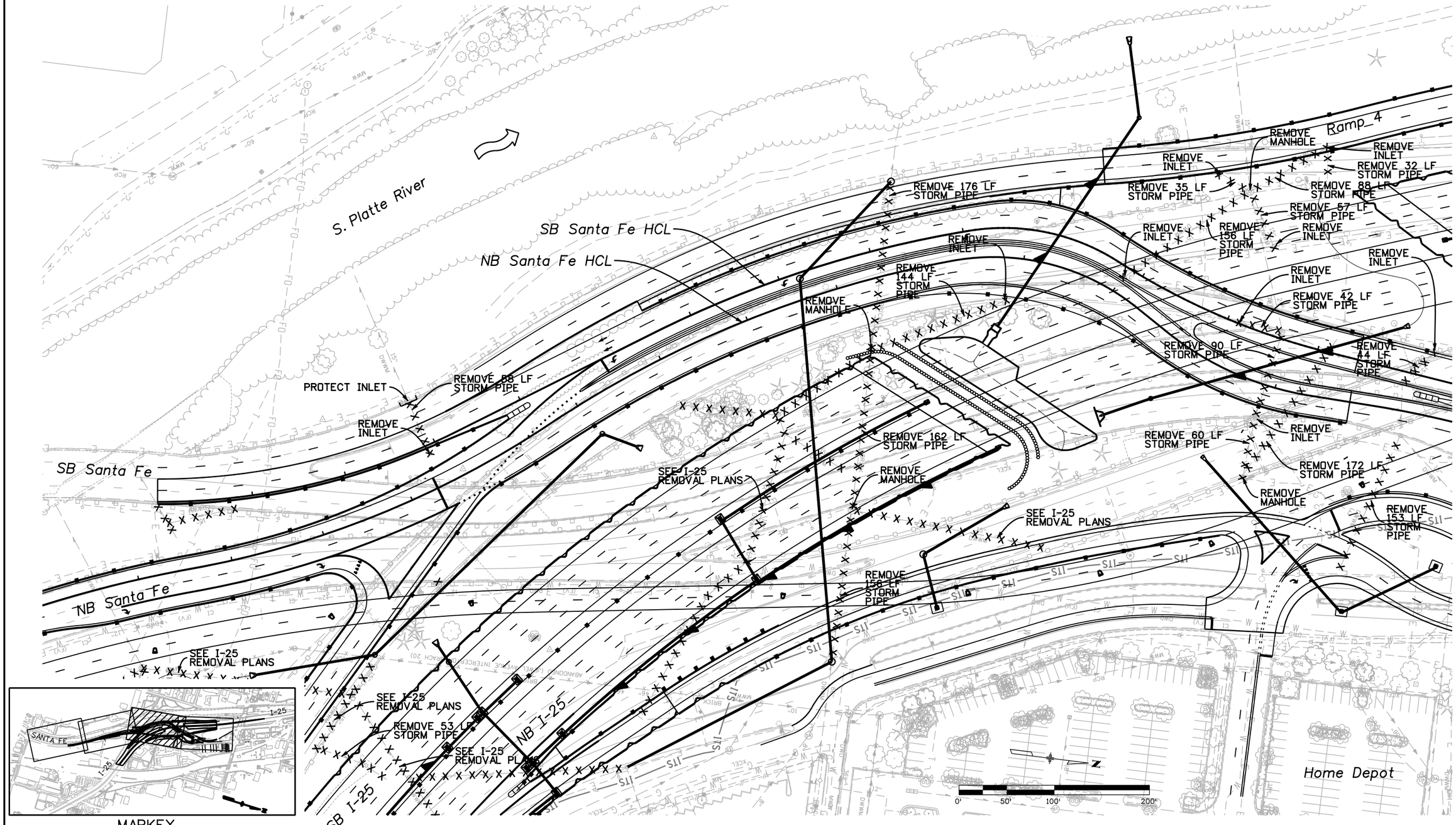

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Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE DRAINAGE REMOVAL PLAN SHEET 2 OF 2		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: JAM	Structure Numbers	17783
Void:	Detailer: JHK		Sheet Number 510
	Sheet Subset: DRAINAGE	Subset Sheets: 14 of 53	

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SB I-25

I-25 HCL

NB I-25

615+00

70 MH

71 MH

31 DVG

23 DVG

NB 4.3

NB 4.0

18" RCP

18" RCP

5275

5270

5265

5260

5255

RTD Lightrail

Southern Pacific Railroad

0' 50' 100' 200'

N

MAPKEY

SANTA FE

I-25

I-25

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311_ME_HYDR_PH2_PLAN_DRN I25_01.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE I-25 DRAINAGE PLAN SHEET 1 OF 4		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: JAM	Structure Numbers	17783
Void:	Detailer: KSP		Sheet Number 511
	Sheet Subset: DRAINAGE	Subset Sheets: 15 of 53	

SANTA FE 2.0
SEE SANTA FE
DRAINAGE PLANS

RAMP 3 1.0
SEE SANTA FE
DRAINAGE PLANS

CONCRETE LINED SWALE,
SEE MISCELLANEOUS
DRAINAGE DETAILS

S. Platte River

SB Santa Fe

CENTER STREET OUTFALL
SEE SANTA FE
DRAINAGE PLANS

NB Santa Fe

NB SANTA FE
POND OUTFALL
SEE SANTA FE
DRAINAGE PLANS

Ramp 3

SB I-25

NB I-25

I-25
HOL

Ramp 2

HOME DEPOT 3.0,
SEE SANTA FE
DRAINAGE PLANS

HOME DEPOT 2.0
SEE SANTA FE
DRAINAGE PLANS

Home Depot Access Road

Ramp 1

SANTA FE 1.0
SEE SANTA FE
DRAINAGE PLANS

CONCRETE LINED SWALE,
DOWEL INTO CONCRETE
POND BOTTOM,
SEE MISCELLANEOUS
DRAINAGE DETAILS

Northbound Santa Fe
Water Quality Pond
See Water Quality Pond Plan Sheets

Home Depot

HOME DEPOT 1.0
SEE SANTA FE
DRAINAGE PLANS

MAPKEY

0' 50' 100' 200'

Print Date: 10/19/2010	Sheet Revisions		
File Name: 16311_ME_HYDR_PH2_PLAN_DRN I25_02.dgn	Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings			
777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939			

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
I-25 DRAINAGE PLAN
SHEET 2 OF 4

Designer:	JAM	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	16 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 512

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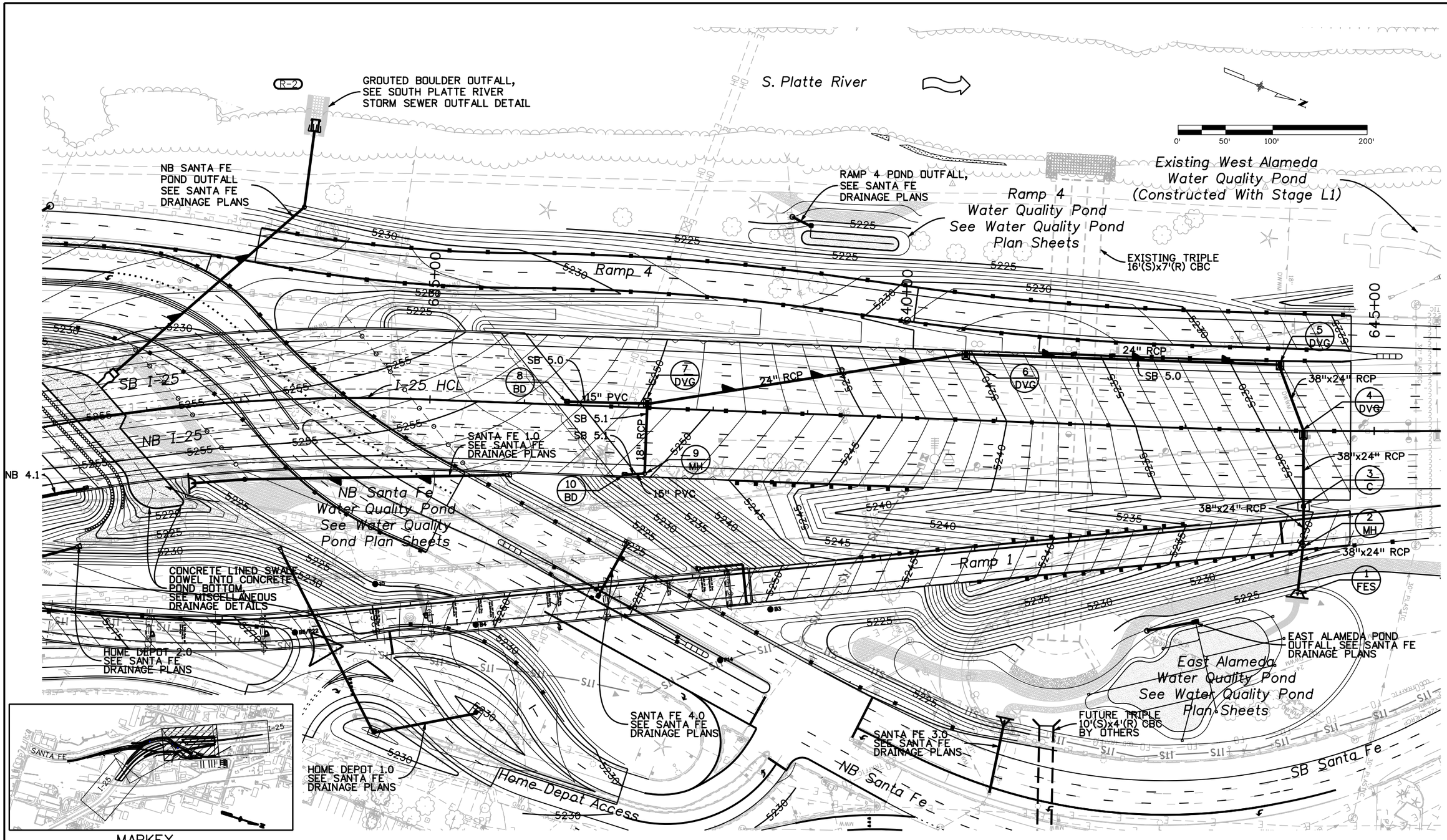

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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1/3/2011	REPLACE FES W/ HDWL	JAY	Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE I-25 DRAINAGE PLAN SHEET 3 OF 4		Project No./Code
No Revisions:			BR 0252-407
Revised:			17783
Void:	Designer: JAM	Structure Numbers	Sheet Number 513 B
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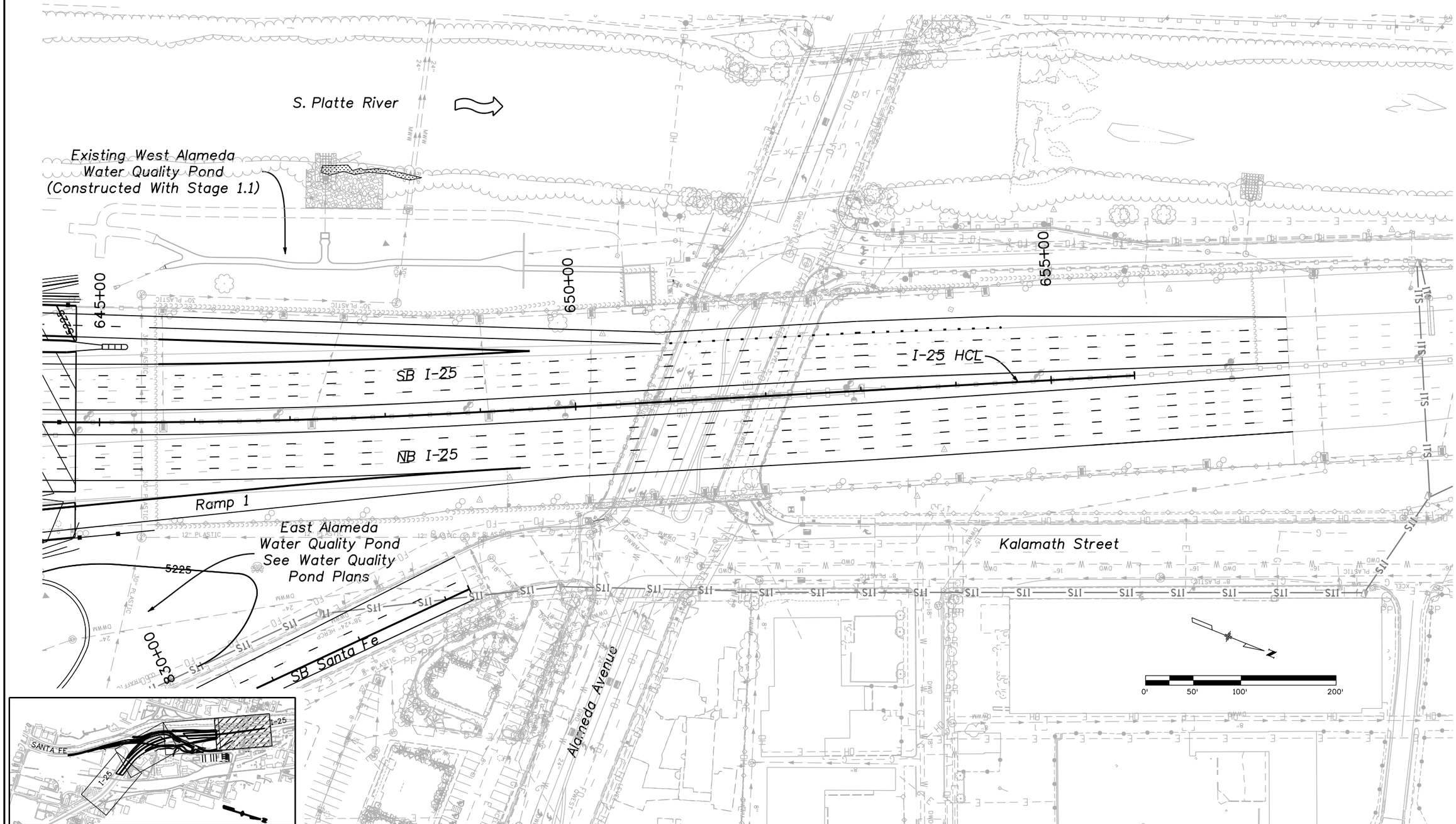

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Unit Information Unit Leader Initials					Void:
MULLER MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings · 777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939					

I-25/SANTA FE INTERCHANGE I-25 DRAINAGE PLAN SHEET 4 OF 4			Project No./Code
Designer: JAM	Structure Numbers		BR 0252-407
Detailer: KSP			17783
Sheet Subset: DRAINAGE	Subset Sheets: 18 of 53		Sheet Number 514

JohnK 1:15:22 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_PLAN_DRN 125_04.dgn
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10/19/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable-4.00.tbl

SB Santa Fe

NB Santa Fe

S. Platte River

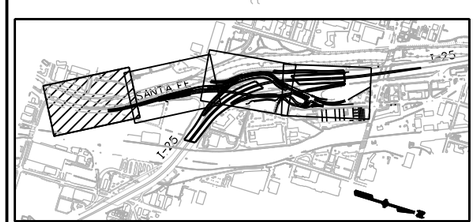
Northbound
Santa Fe HCL

705+00

BM

BM

0' 50' 100' 200'



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Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:

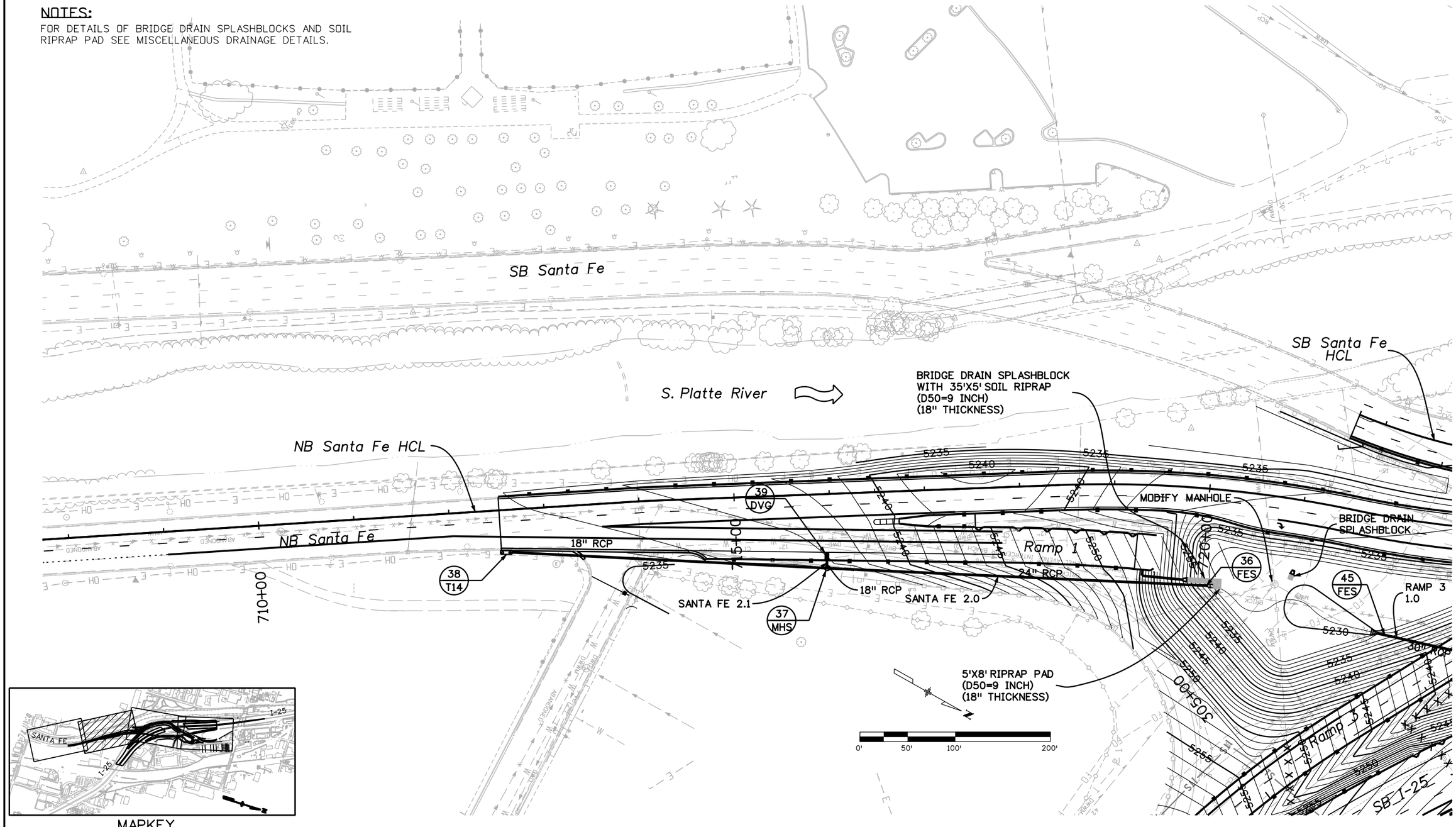
MULLER ENGINEERING CO, INC
CONSULTING ENGINEERS
P: 9904.12 /16311/HYDRAULICS/Drawings
777 S. Wadsworth Blvd.
Suite 4-100
Lakewood, CO 80226
303-988-4939

I-25/SANTA FE INTERCHANGE
SANTA FE DRAINAGE PLAN
SHEET 1 OF 4

Designer: JAM	Structure Numbers		Project No./Code
Detailer: JHK			BR 0252-407
Sheet Subset: DRAINAGE	Subset Sheets: 19 of 53		17783
			Sheet Number 515

NOTES:

FOR DETAILS OF BRIDGE DRAIN SPLASHBLOCKS AND SOIL RIPRAP PAD SEE MISCELLANEOUS DRAINAGE DETAILS.



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Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE DRAINAGE PLAN SHEET 2 OF 4		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: JAM	Structure Numbers	17783
Void:	Detailer: JHK		Sheet Number 516
	Sheet Subset: DRAINAGE	Subset Sheets: 20 of 53	

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10/19/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable-4.00.tbl

NOTES:

1. FOR DETAILS OF BRIDGE DRAIN SPLASHBLOCKS AND SOIL RIPRAP PAD SEE MISCELLANEOUS DRAINAGE DETAILS.

S. Platte River
Storm Sewer
GROUTED BOULDER OUTFALL, SEE SOUTH PLATTE RIVER OUTFALL DETAILS
R-2
65 PC
48" RCP
66 MHS
NB SANTA FE POND OUTFALL
Ramp 4
59 MHS
CENTER STREET OUTFALL
SB Santa Fe HCL
NB Santa Fe HCL
CONCRETE LINED SWALE, DOWELL INTO CONCRETE POND BOTTOM, SEE MISCELLANEOUS DRAINAGE DETAILS
60 MHS
67 PC
34 FES
ADJUST MANHOLE
MODIFY INLET
43 MH
33 MHS
30"x19" RCP
SANTA FE 1.0
BRIDGE DRAIN SPLASHBLOCK WITH 5'X10' SOIL RIPRAP PAD (D50=9 INCH) (18" THICKNESS)
SB Santa Fe
42 FES
NB 6.1 SEE I-25 DRAINAGE PLANS
NB 4.2 SEE I-25 DRAINAGE PLANS
32 PE
46 FES
49 FES
50 MHS
18" RCP
BRIDGE DRAIN SPLASHBLOCK WITH 5'X30" SOIL RIPRAP PAD (D50=9 INCH) (18" THICKNESS)
NB Santa Fe
BRIDGE DRAIN SPLASHBLOCK
45 FES
MODIFY MANHOLE
BRIDGE DRAIN SPLASHBLOCK
RAMP 3 1.0
30" RCP
BRIDGE DRAIN SPLASHBLOCK NO RIPRAP REQUIRED
NB 4.1 SEE I-25 DRAINAGE PLANS
SB 6.0 SEE I-25 DRAINAGE PLANS
44 MH
NB I-25
SB I-25
HOME DEPOT 2.0
61 MHS
51 C
BRIDGE DRAIN SPLASHBLOCK
CONCRETE LINED SWALE DOWELL INTO CONCRETE POND BOTTOM, SEE MISCELLANEOUS DRAINAGE DETAILS
HOME DEPOT 3.0
62 EX
BRIDGE DRAIN SPLASHBLOCK NO RIPRAP REQUIRED
NB 4.0 SEE I-25 DRAINAGE PLANS
BRIDGE DRAIN SPLASHBLOCK WITH 5'X10' SOIL RIPRAP PAD (D50=9 INCH) (18" THICKNESS)
47 C
HOME DEPOT 1.0
48 C
NB Santa Fe Water Quality Pond See Water Quality Pond Plans
Home Depot
0' 50' 100' 200'

MAPKEY

Print Date: 12/20/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311_ME_HYDR_PH2_PLAN_DRN SF_03_R2.dgn	R-2	Date:	Comments	Init.	2000 South Holly Street, Denver, CO 80222, Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted		1/3/2011	REPLACE FES W/ HDWL	JAY	Region 6 RLB
Unit Information Unit Leader Initials					
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings					
777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939					

As Constructed	I-25/SANTA FE INTERCHANGE SANTA FE DRAINAGE PLAN SHEET 3 OF 4		Project No./Code
No Revisions:	Designer: JAM	Structure Numbers	BR 0252-407
Revised:	Detailer: JHK		17783
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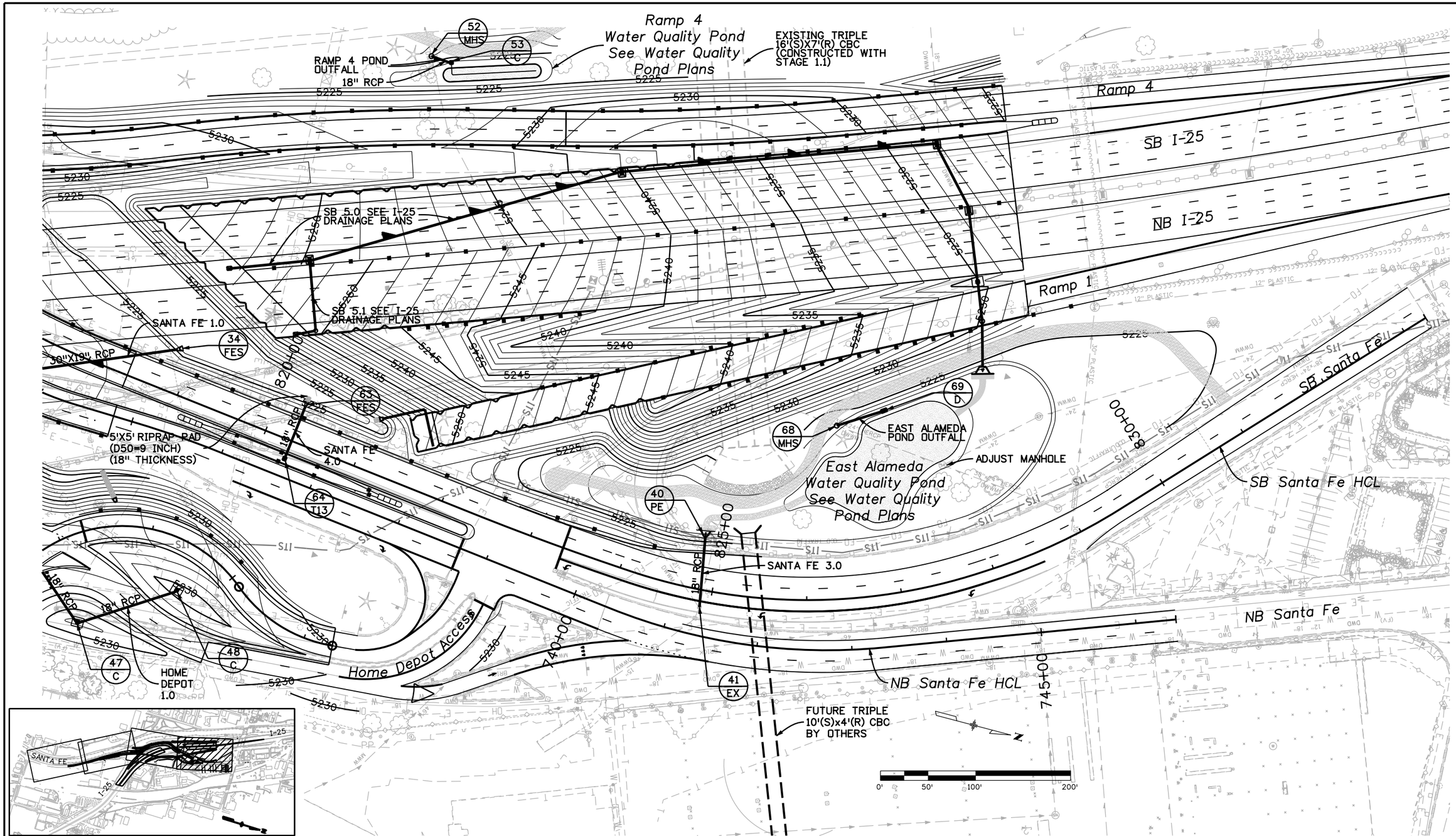

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Horiz. Scale: 1:100 Vert. Scale: As Noted				Region 6 RLB	Revised:
Unit Information Unit Leader Initials					Void:
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings 777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939					

I-25/SANTA FE INTERCHANGE SANTA FE DRAINAGE PLAN SHEEET 4 OF 4			Project No./Code
Designer: JAM	Structure Numbers		BR 0252-407
Detailer: JHK			17783
Sheet Subset: DRAINAGE	Subset Sheets: 22 of 53		Sheet Number 518

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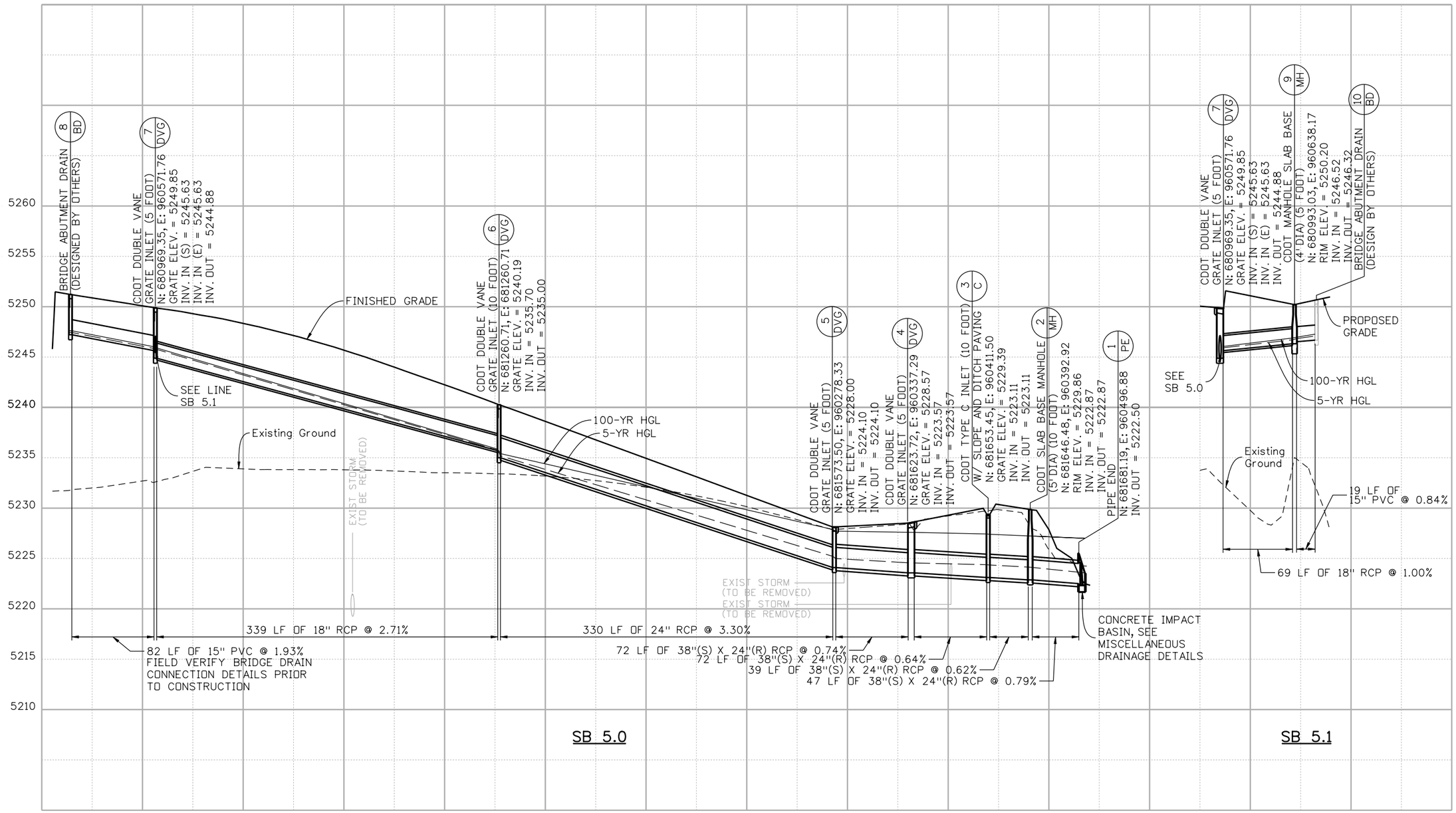

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
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Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939					

I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 1 OF 10				Project No./Code
Designer: JAM	Structure Numbers			BR 0252-407
Detailer: KSP				17783
Sheet Subset: DRAINAGE	Subset Sheets: 23 of 53			Sheet Number 519

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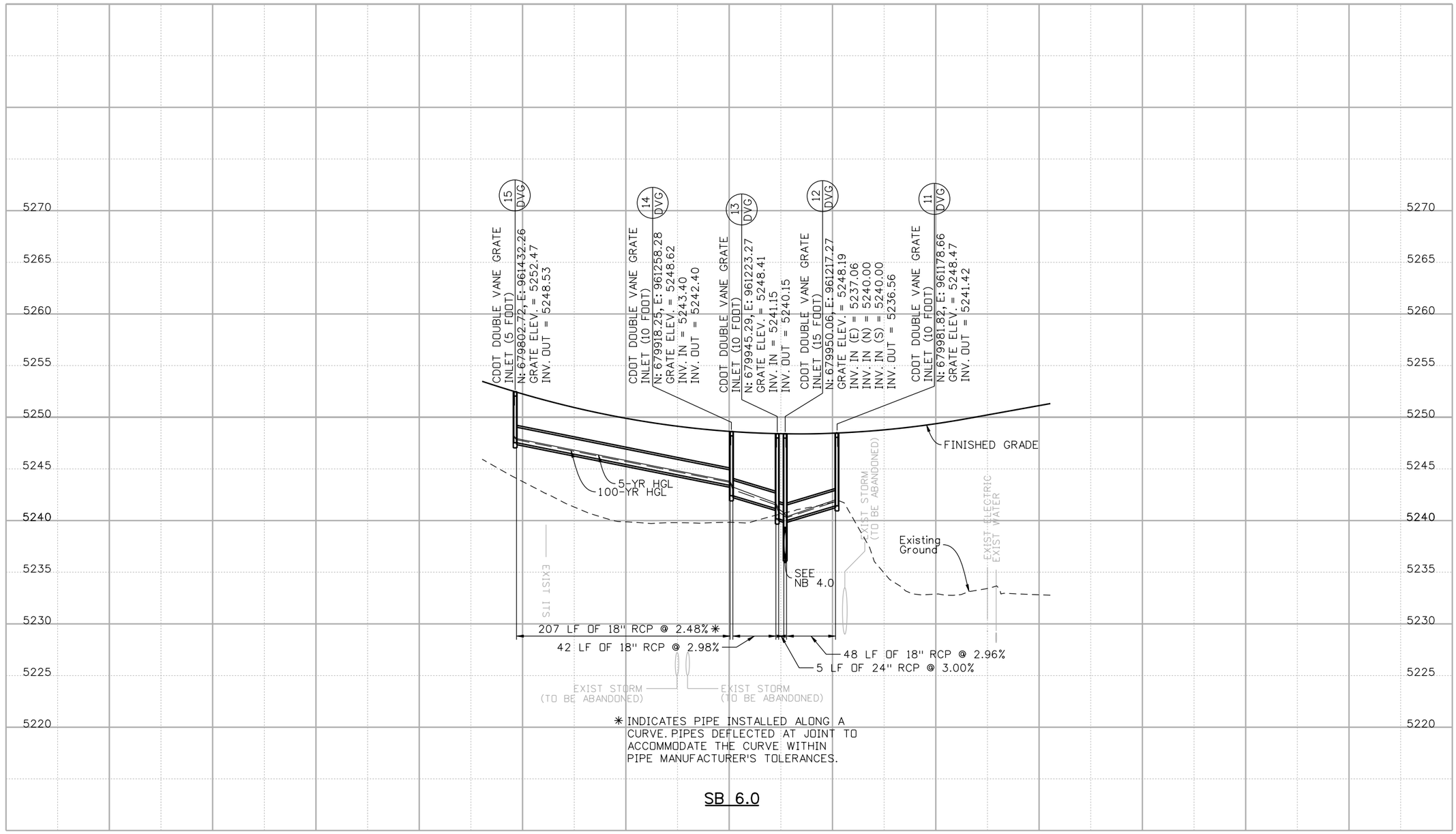

* INDICATES PIPE INSTALLED ALONG A CURVE. PIPES DEFLECTED AT JOINT TO ACCOMMODATE THE CURVE WITHIN PIPE MANUFACTURER'S TOLERANCES.

SB 6.0

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 2 OF 10	Project No./Code
File Name: 16311HYDR_PH2_PR002.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:	Designer: JAM / Structure Numbers	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: KSP / Sheet Subset: DRAINAGE / Subset Sheets: 24 of 53	Sheet Number 520
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings								
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JohnK 1:18:00 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_PR002.dgn
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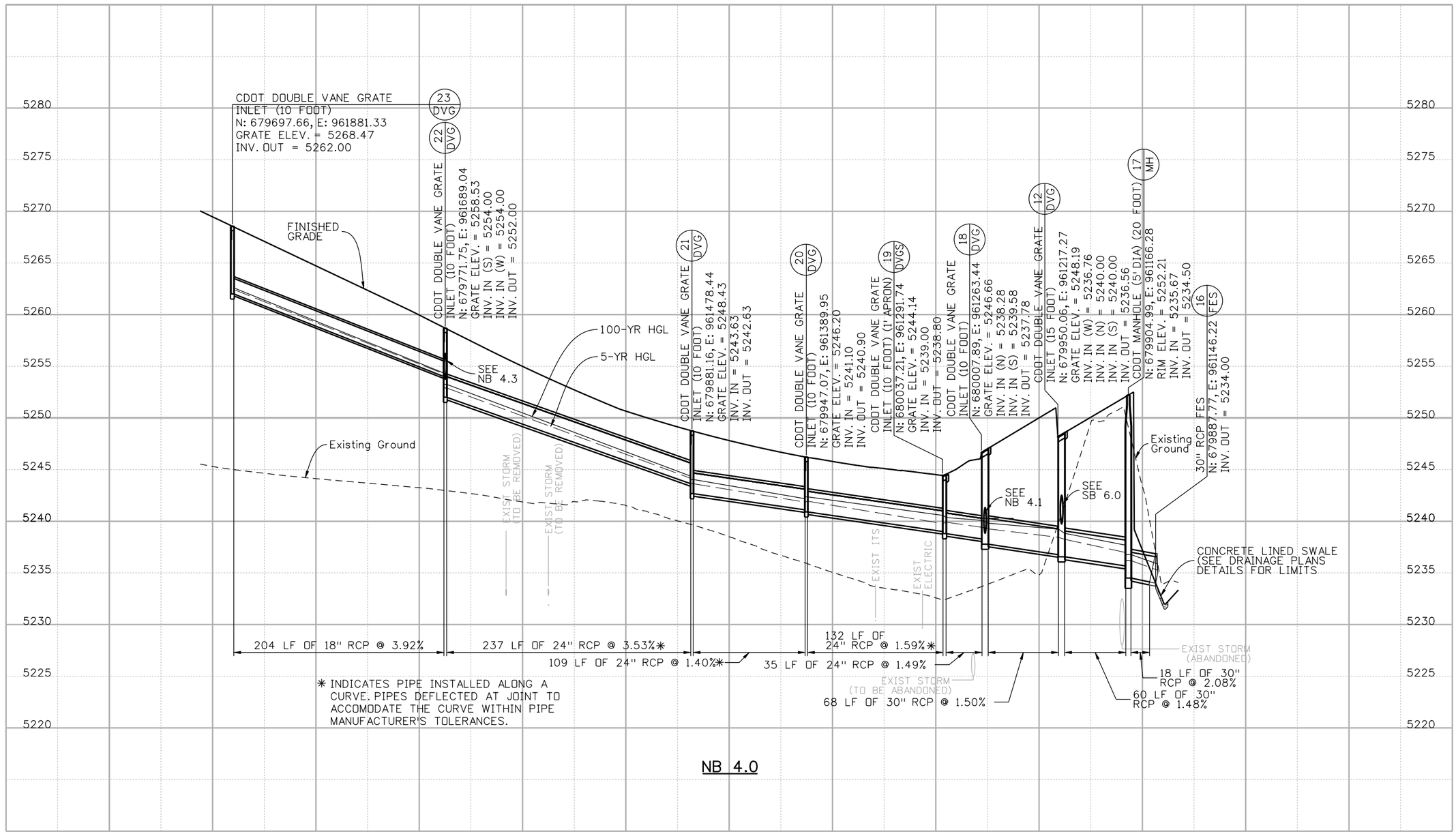

NB 4.0

Print Date: 10/19/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311HYDR_PH2_PR003.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:

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I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 3 OF 10			Project No./Code
Designer: JAM	Structure Numbers		BR 0252-407
Detailer: KSP			17783
Sheet Subset: DRAINAGE	Subset Sheets: 25 of 53		Sheet Number 521

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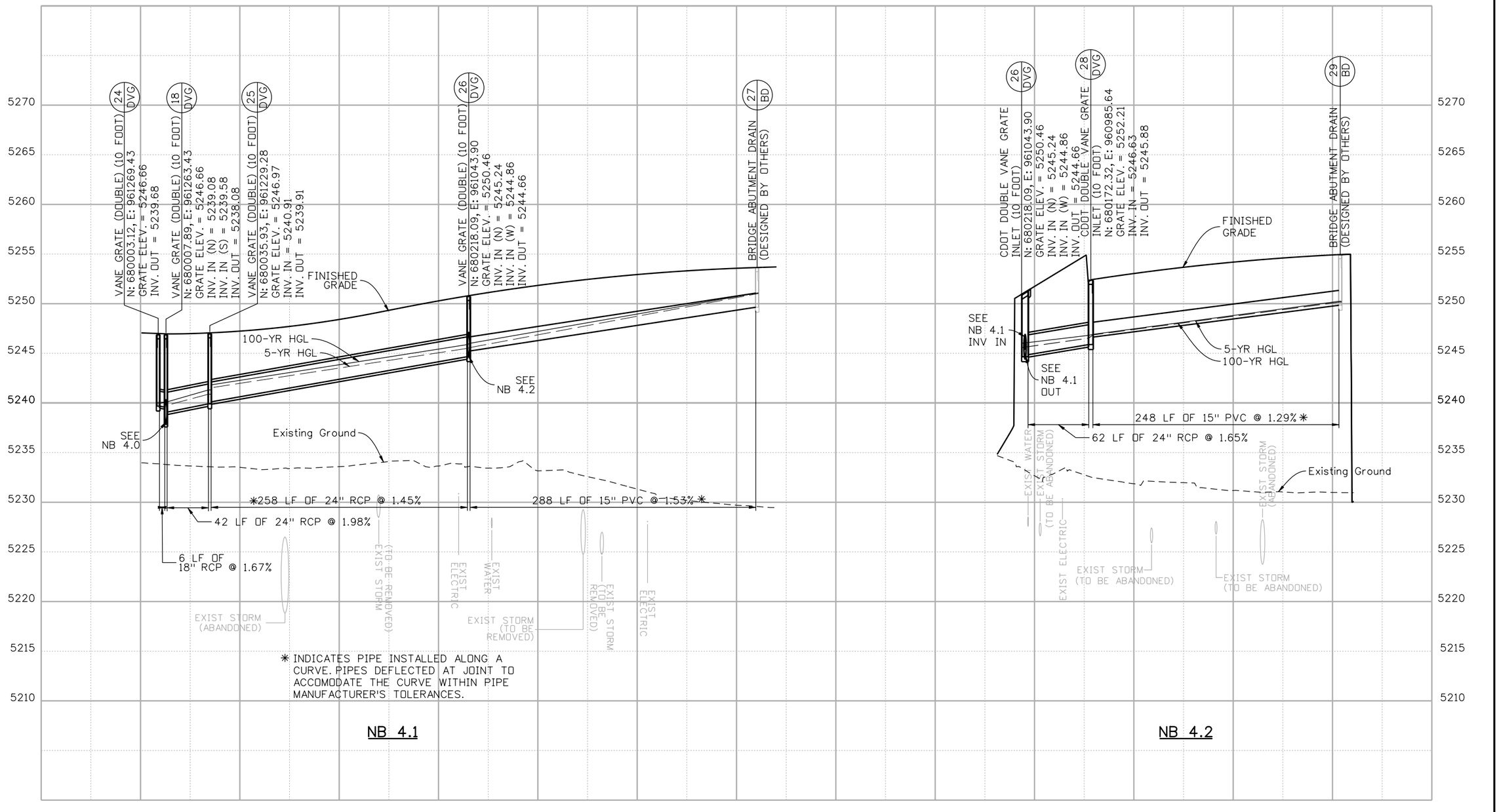

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311HYDR_PH2_PR004.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
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As Constructed	I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 4 OF 10			Project No./Code
No Revisions:	Designer: JAM	Structure Numbers		BR 0252-407
Revised:	Detailer: KSP			17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 26 of 53		Sheet Number 522

JohnK 1:18:12 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_PR004.dgn
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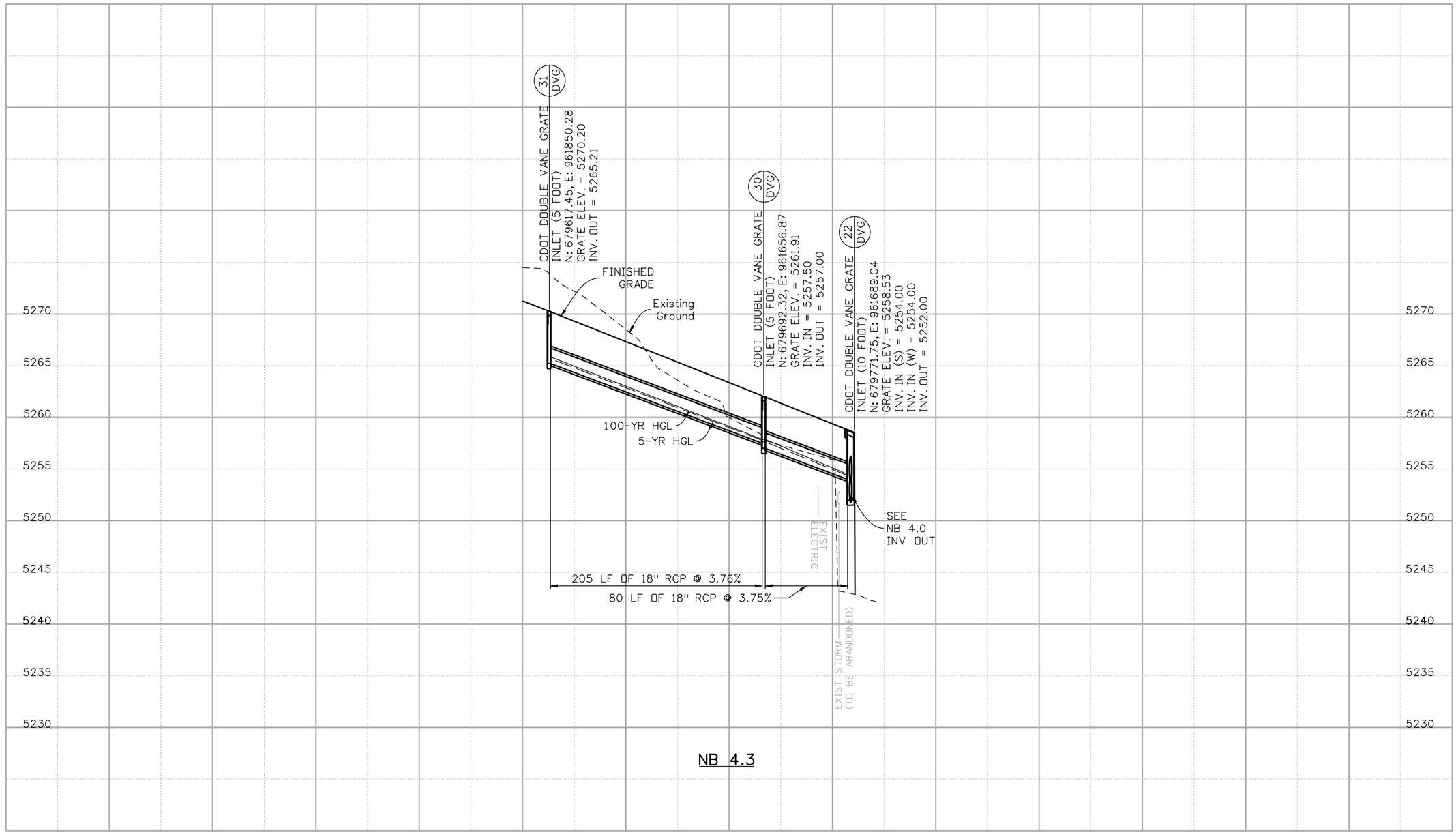

NB 4.3

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 5 OF 10	Project No./Code
File Name: 16311HYDR_PH2_PR005.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:	Designer: JAM / Structure Numbers	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: KSP / Sheet Subset: DRAINAGE / Subset Sheets: 27 of 53	Sheet Number 523
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939							

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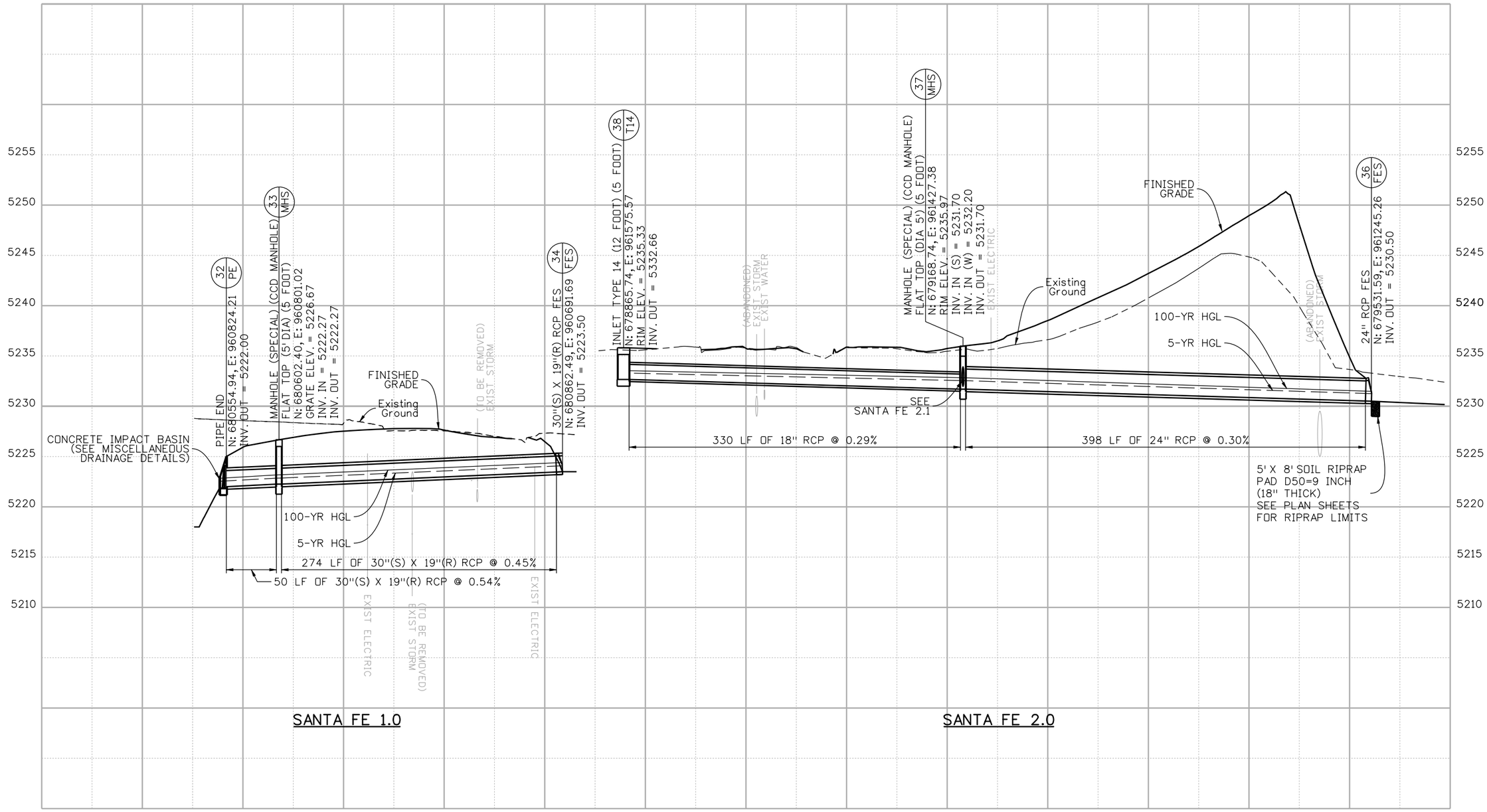

SANTA FE 1.0

SANTA FE 2.0

Print Date: 10/19/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311HYDR_PH2_PR006.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:

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I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 6 OF 10			Project No./Code
Designer: JAM	Structure Numbers		BR 0252-407
Detailer: KSP			17783
Sheet Subset: DRAINAGE	Subset Sheets: 28 of 53		Sheet Number 524

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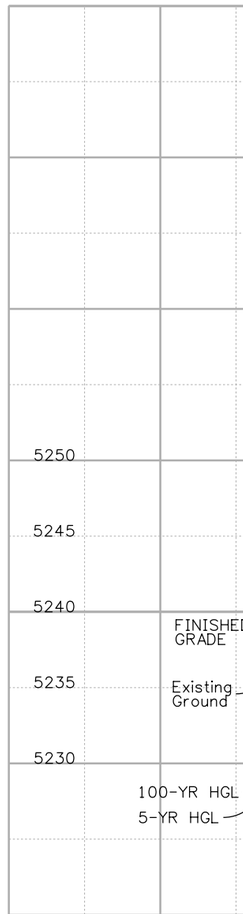
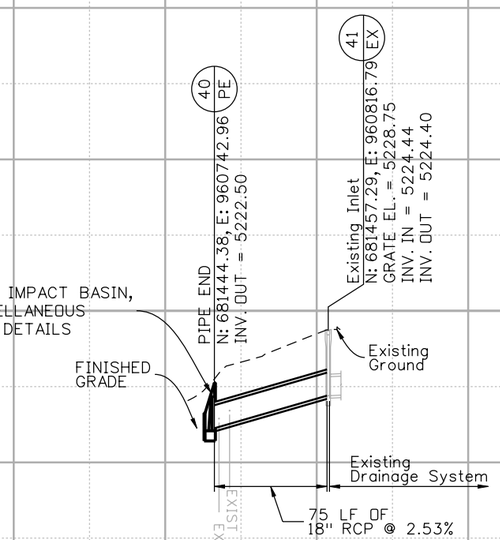
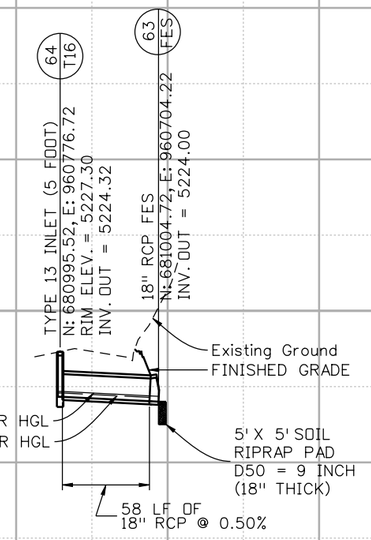


SANTA FE 2.1



SANTA FE 3.0

*THIS STORM SEWER SYSTEM IS AN EXTENSION OF AN EXISTING SYSTEM AND HYDROLOGY AND HYDRAULICS OF THE SYSTEM ARE NOT KNOWN. PROPOSED EXTENSION IS LARGER AND STEEPER THAN THE EXISTING SYSTEM AND WILL HAVE EQUAL OR GREATER CAPACITY.



SANTA FE 4.0

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 7 OF 10	Project No./Code
File Name: 16311HYDR_PH2_PR007.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:	Designer: JAM / Structure Numbers	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: KSP / Sheet Subset: DRAINAGE / Subset Sheets: 29 of 53	Sheet Number 525
MULLER MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939							

JohnK 1:18:29 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_PR007.dgn
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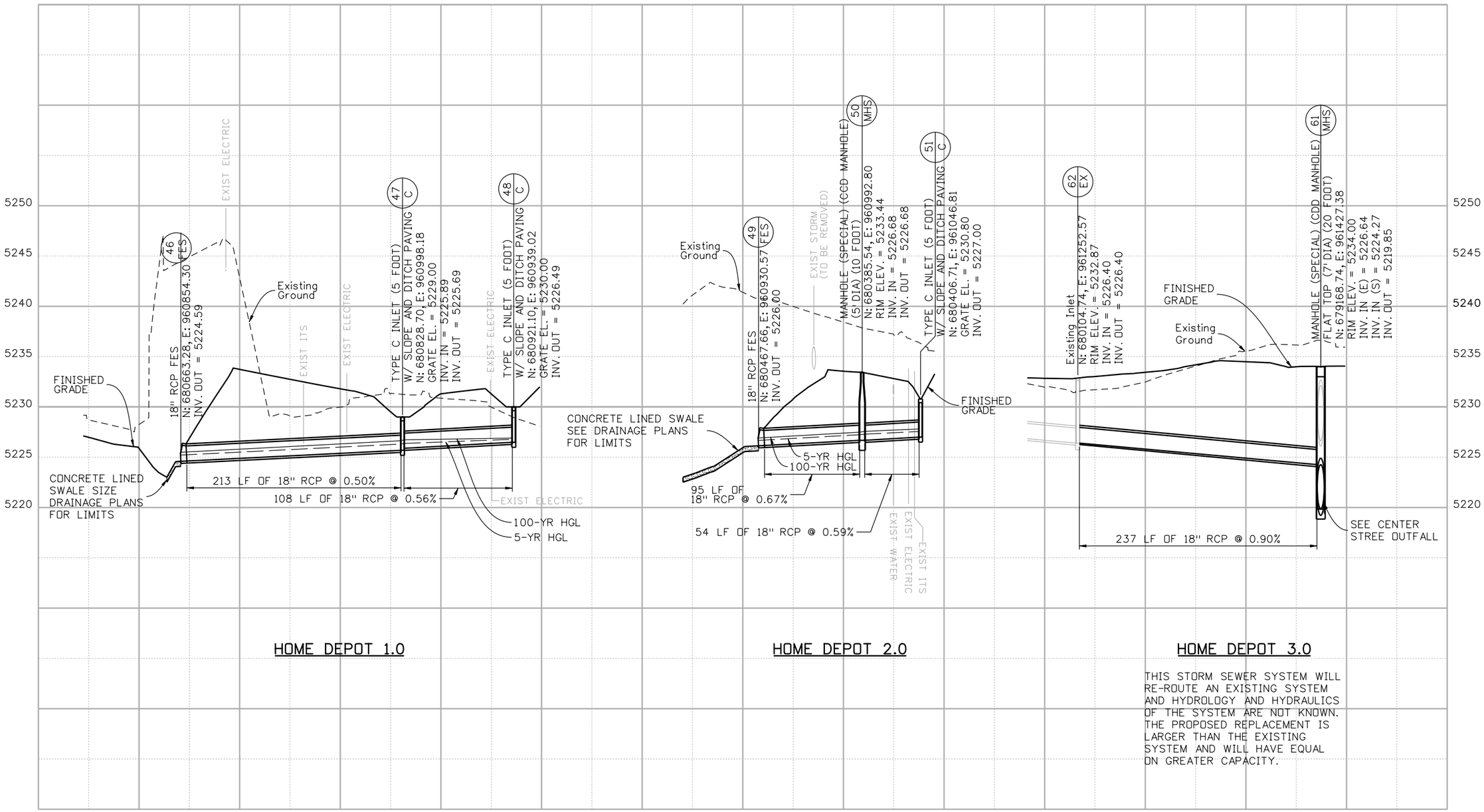

Print Date: 10/19/2010
File Name: 16311HYDR_PH2_PR008.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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Sheet Revisions

Date:	Comments	Init.

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
DRAINAGE PROFILES
SHEET 8 OF 10

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 30 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 526

JohnK 1:18:36 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_PR008.dgn
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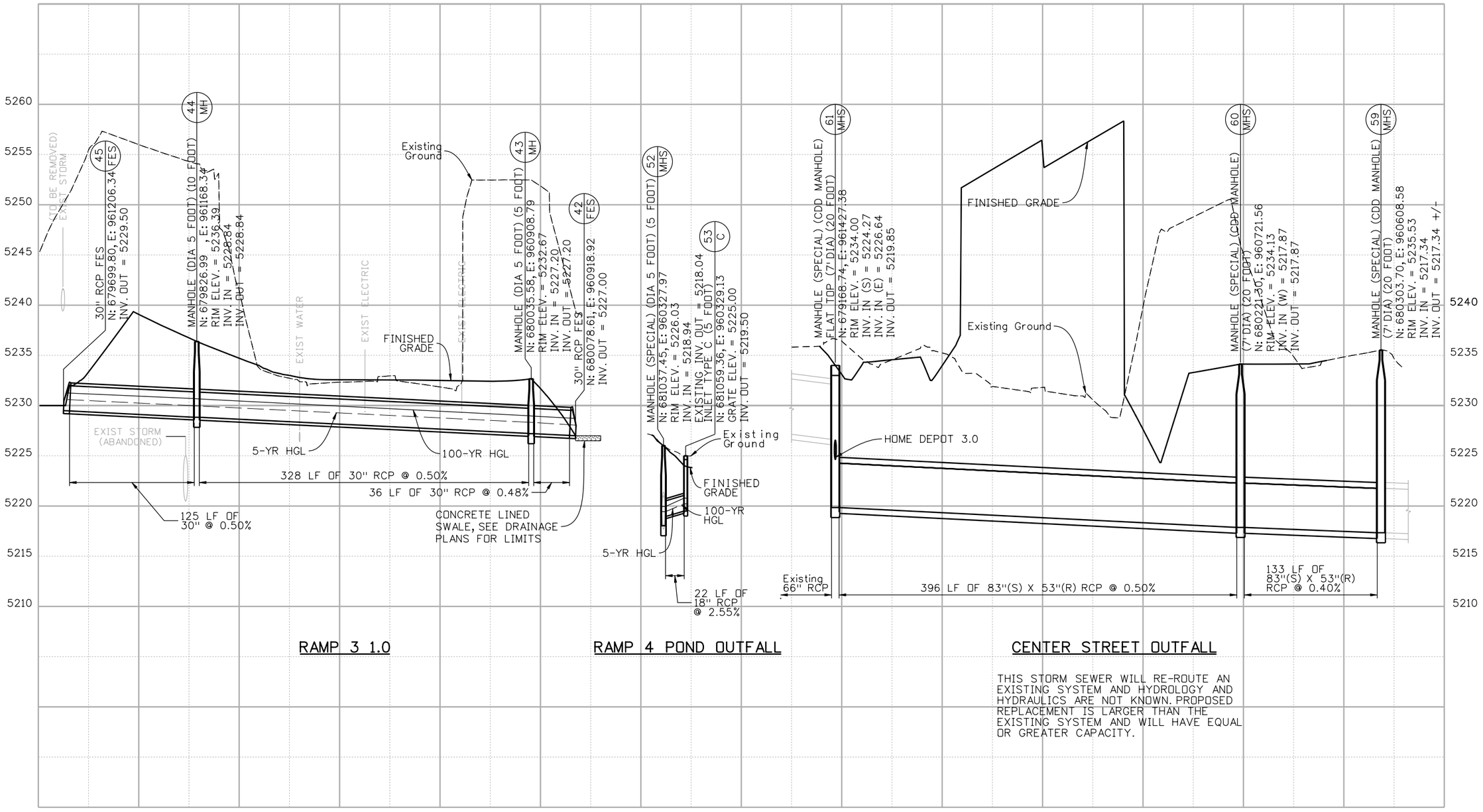

RAMP 3 1.0

RAMP 4 POND OUTFALL

CENTER STREET OUTFALL

THIS STORM SEWER WILL RE-ROUTE AN EXISTING SYSTEM AND HYDROLOGY AND HYDRAULICS ARE NOT KNOWN. PROPOSED REPLACEMENT IS LARGER THAN THE EXISTING SYSTEM AND WILL HAVE EQUAL OR GREATER CAPACITY.

Print Date: 10/19/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311HYDR_PH2_PR009.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS, P: 9904.12 /16311/HYDRAULICS/Drawings, 777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939			

I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 9 OF 10			Project No./Code
Designer: JAM	Structure Numbers		BR 0252-407
Detailer: KSP			17783
Sheet Subset: DRAINAGE	Subset Sheets: 31 of 53		Sheet Number 527

JohnK 1:18:45 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_PR009.dgn
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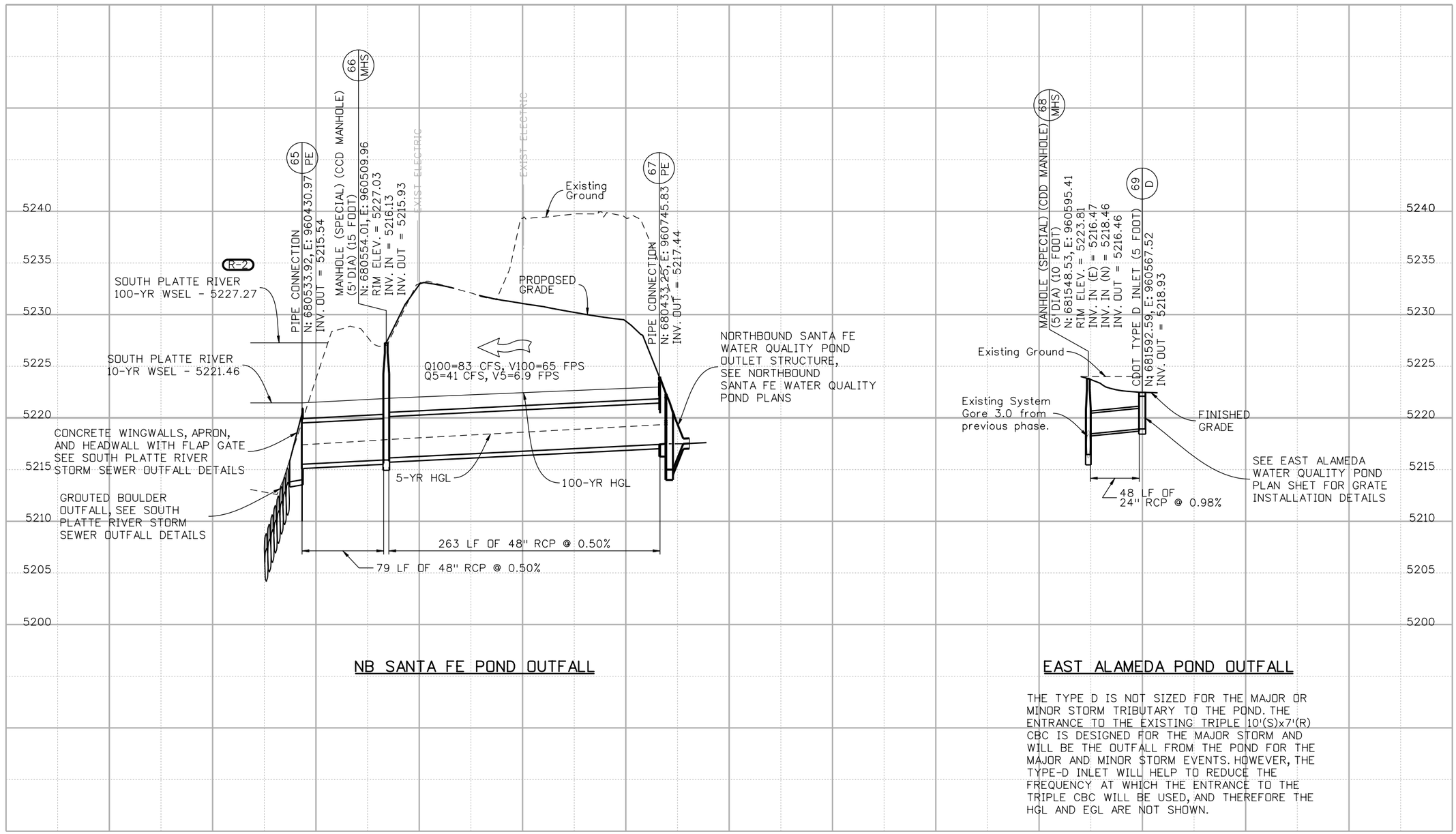

NB SANTA FE POND OUTFALL

EAST ALAMEDA POND OUTFALL

THE TYPE D IS NOT SIZED FOR THE MAJOR OR MINOR STORM TRIBUTARY TO THE POND. THE ENTRANCE TO THE EXISTING TRIPLE 10'(S)x7'(R) CBC IS DESIGNED FOR THE MAJOR STORM AND WILL BE THE OUTFALL FROM THE POND FOR THE MAJOR AND MINOR STORM EVENTS. HOWEVER, THE TYPE-D INLET WILL HELP TO REDUCE THE FREQUENCY AT WHICH THE ENTRANCE TO THE TRIPLE CBC WILL BE USED, AND THEREFORE THE HGL AND EGL ARE NOT SHOWN.

Print Date: 12/20/2010
File Name: 16311HYDR_PH2_PR010_R2.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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R-2

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	REPLACE FES W/ HDWL	JAY

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Void:

I-25/SANTA FE INTERCHANGE DRAINAGE PROFILES SHEET 10 OF 10

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 32 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 528 B

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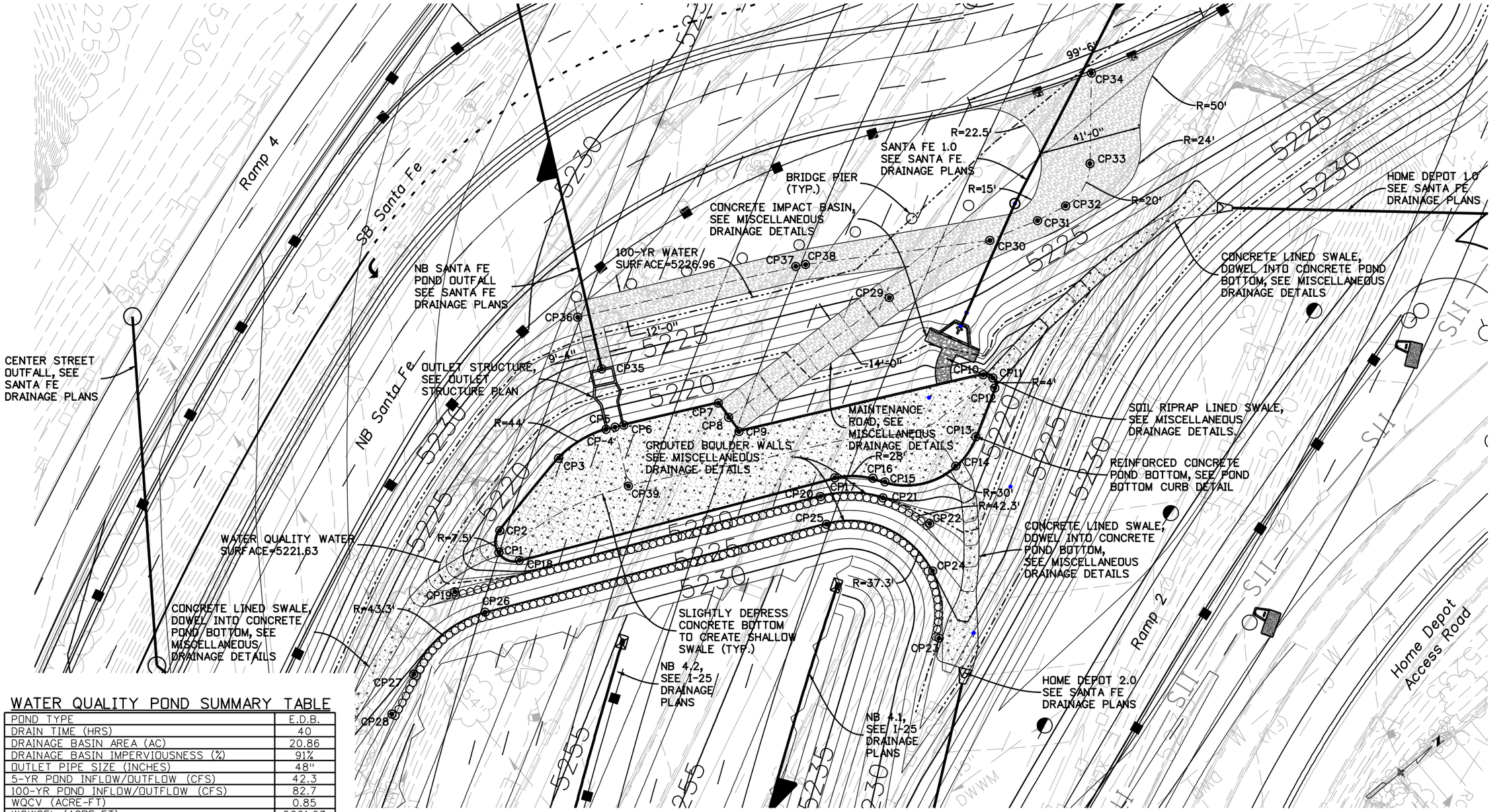
12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl



WATER QUALITY POND SUMMARY TABLE

POND TYPE	E.D.B.
DRAIN TIME (HRS)	40
DRAINAGE BASIN AREA (AC)	20.86
DRAINAGE BASIN IMPERVIOUSNESS (%)	91%
OUTLET PIPE SIZE (INCHES)	48"
5-YR POND INFLOW/OUTFLOW (CFS)	42.3
100-YR POND INFLOW/OUTFLOW (CFS)	82.7
WQCV (ACRE-FT)	0.85
WQWSEL (ACRE-FT)	5221.63
100-YR WATER SURFACE ELEVATION	5226.96

0' 20' 40' 80'

Print Date: 12/20/2010
File Name: 16311_ME_HYDR_PH2_NBSF Pond Plan.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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303-988-1939

R-2
0009

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	ADD CONTROL PNTS	JAY

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As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
NB SANTA FE WATER QUALITY POND
SHEET 1 OF 6

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers
Subset Sheets: 33 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 529 B

Korina 2:26:34 PM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_NBSF Pond Plan.dgn
12/20/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

NORTHBOUND SANTA FE WATER QUALITY POND CONTROL POINT TABLE						
CONTROL POINT	NORTHING	EASTING	ELEVATION	BOTTOM OF WALL ELEVATION[1]	TOP OF WALL ELEVATION[2]	DESCRIPTION
CP1	680354.96	960774.92	5218.00	-	-	FLOW LINE OF POND BOTTOM
CP2	680360.85	960768.46	5218.50	-	-	TOP OF CURB
CP3	680397.50	960761.49	5218.50	-	-	TOP OF CURB
CP4	680419.37	960764.83	5218.50	-	-	TOP OF CURB
CP5	680422.64	960766.50	5217.50	-	-	FLOW LINE OF POND BOTTOM
CP6	680425.91	960768.18	5218.50	-	-	TOP OF CURB
CP7	680460.47	960785.76	5218.50	-	-	TOP OF CURB
CP8	680459.93	960792.74	5218.00	-	-	FLOW LINE OF POND BOTTOM
CP9	680459.39	960799.72	5218.50	-	-	TOP OF CURB
CP10	680548.66	960845.16	5218.50	-	-	TOP OF CURB
CP11	680550.85	960848.66	5218.00	-	-	FLOW LINE OF POND BOTTOM
CP12	680548.78	960852.22	5218.50	-	-	TOP OF CURB
CP13	680530.50	960862.28	5218.50	-	-	TOP OF CURB
CP14	680516.77	960865.99	5218.00	-	-	FLOW LINE OF POND BOTTOM
CP15	680491.05	960852.60	5218.50	-	-	TOP OF CURB
CP16	680488.31	960848.48	5218.50	-	-	TOP OF CURB
CP17	680476.81	960838.51	5218.50	-	-	TOP OF CURB
CP18	680359.19	960782.57	5218.50	-	-	TOP OF CURB
CP19	680331.40	960775.59	-	5222.30	5223.00	FACE OF GROUTED BOULDER WALL
CP20	960840.53	680467.64	-	5222.00	5223.00	FACE OF GROUTED BOULDER WALL
CP21	680486.36	950857.02	-	5222.40	5223.00	FACE OF GROUTED BOULDER WALL
CP22	680494.13	960876.87	-	5222.33	5223.00	FACE OF GROUTED BOULDER WALL
CP23	680467.40	960914.32	-	5227.06	5228.00	FACE OF GROUTED BOULDER WALL
CP24	680482.75	960892.14	-	5225.00	5228.00	FACE OF GROUTED BOULDER WALL
CP25	680462.30	960850.51	-	5225.00	5228.00	FACE OF GROUTED BOULDER WALL
CP26	680335.35	960789.64	-	5225.00	5228.00	FACE OF GROUTED BOULDER WALL
CP27	680297.61	960790.20	-	5225.00	5228.00	FACE OF GROUTED BOULDER WALL
CP28	680280.76	960796.79	-	5227.35	5228.00	FACE OF GROUTED BOULDER WALL
CP29	680539.80	960797.49	5226.00	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP30	680585.30	960805.88	5226.50	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP31	680604.92	960812.05	5226.53	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP32	680617.31	960814.77	5226.56	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP33	680635.59	960808.16	5226.60	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP34	680659.33	960780.89	5227.25	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP35	680433.56	960745.23	5224.00	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP36	680439.54	960723.31	5228.60	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP37	680519.31	960763.87	5228.20	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP38	680522.74	960765.84	5228.20	-	-	MAINTANENCE ACCESS ROAD CENTERLINE
CP39	680411.65	960787.97	5217.70	-	-	FLOW LINE OF POND BOTTOM

[1]BOTTOM OF WALL ELEVATION IS FINISHED GRADE AT BOTTOM OF WALL.

[2]TOP OF WALL ELEVATION IS THE TOP OF BOULDER.

Print Date: 12/20/2010
File Name: 16311_ME_HYDR_PH2_NBSF Pond Plan 2.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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R-2

Sheet Revisions

Date:	Comments	Init.
1/3/2011	ADD CONTROL PNTS	JAY

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As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
NB SANTA FE WATER QUALITY POND
SHEET 2 OF 6

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 34 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 530 B

Korina 11:18:08 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_NBSF Pond Plan 2.dgn
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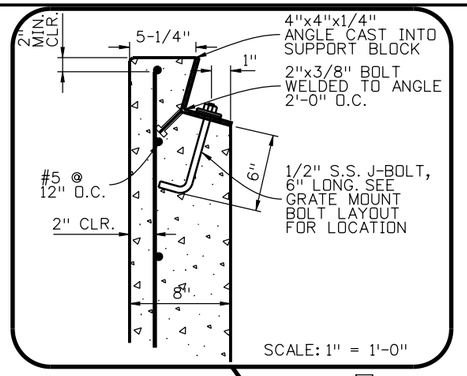
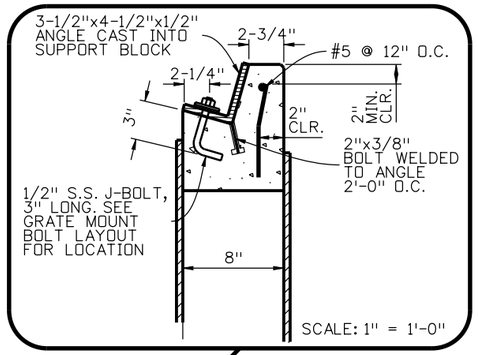
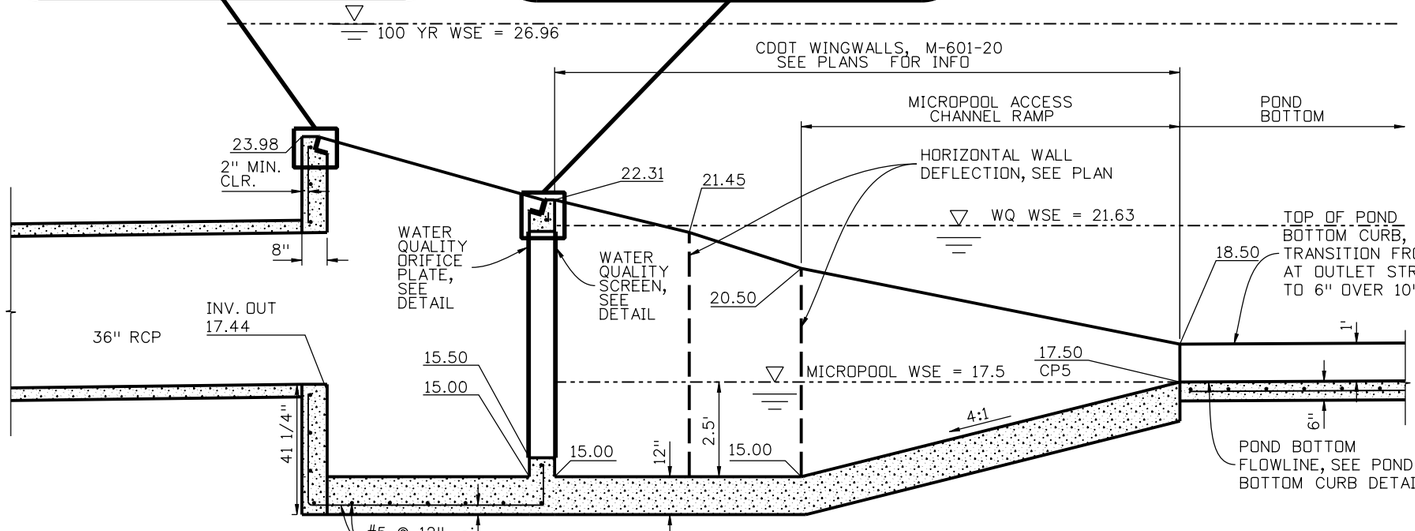
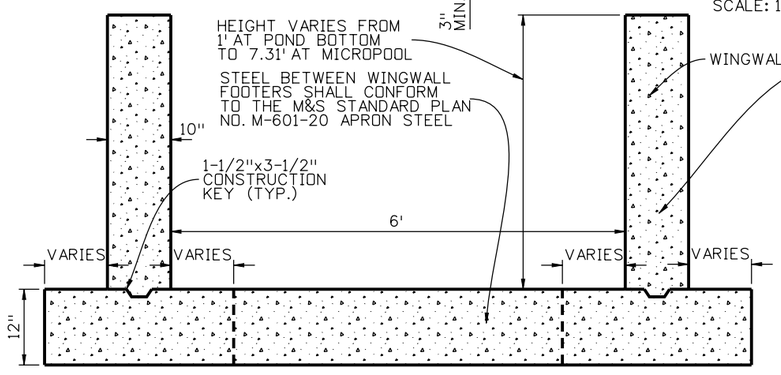






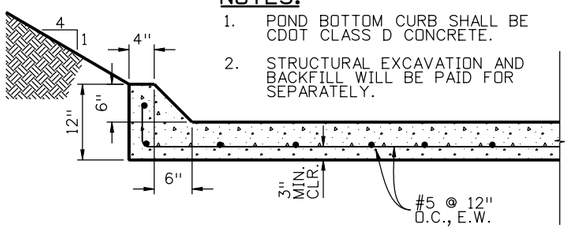
OUTLET STRUCTURE PROFILE

SCALE: 1" = 4'-0"



MICROPOOL ACCESS RAMP SECTION A-A

SCALE: 1" = 2'

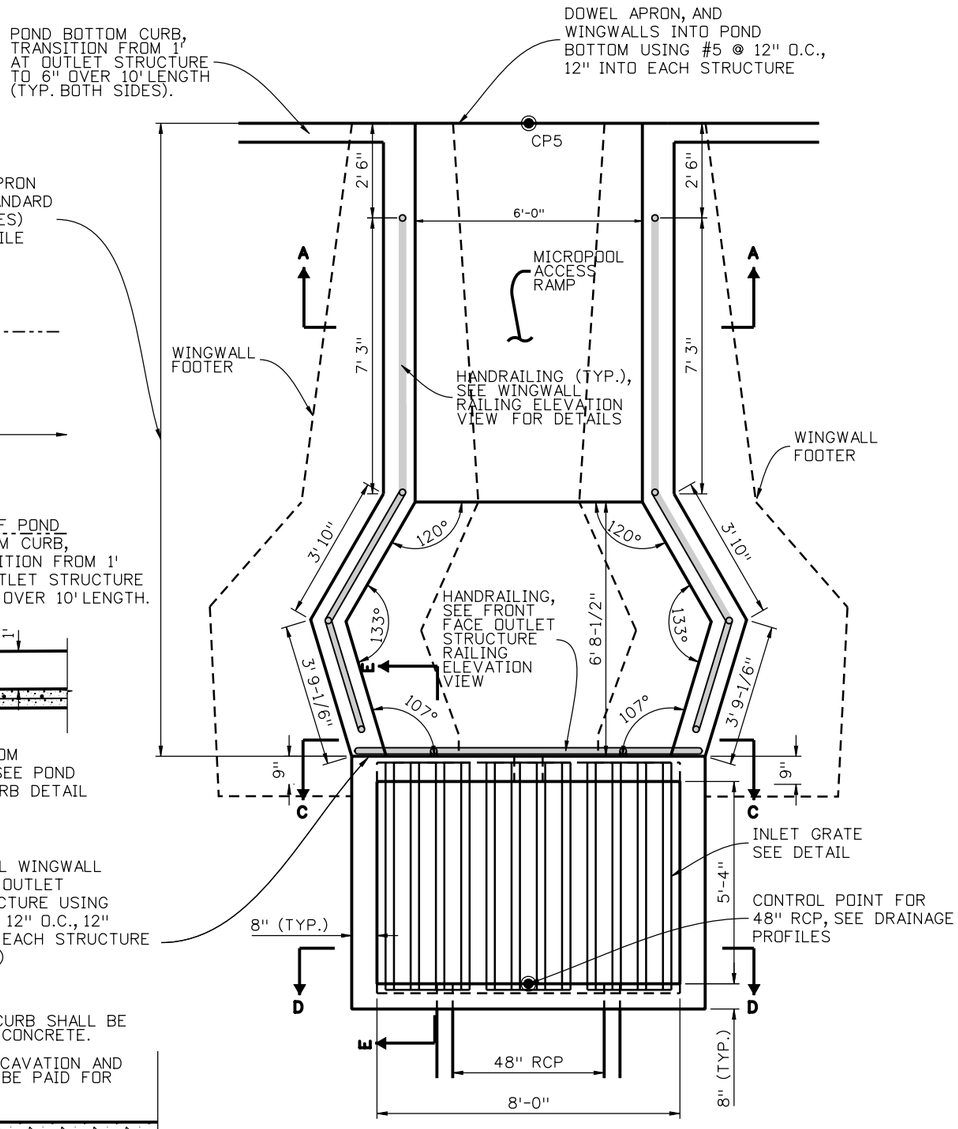


POND BOTTOM CURB DETAIL

SCALE: 1" = 2'

NOTES:

1. POND BOTTOM CURB SHALL BE CDOT CLASS D CONCRETE.
2. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.



OUTLET STRUCTURE PLAN

SCALE: 1" = 4'-0"

Print Date: 12/20/2010		Sheet Revisions	
File Name: 16311_ME_HYDR_PH2_NBSF DETAILS01.dgn		Date:	Comments	Init.
Horiz. Scale: 1:1 Vert. Scale: As Noted		1/3/2011	ADD CONTROL PNTS	JAY
Unit Information Unit Leader Initials				
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939			

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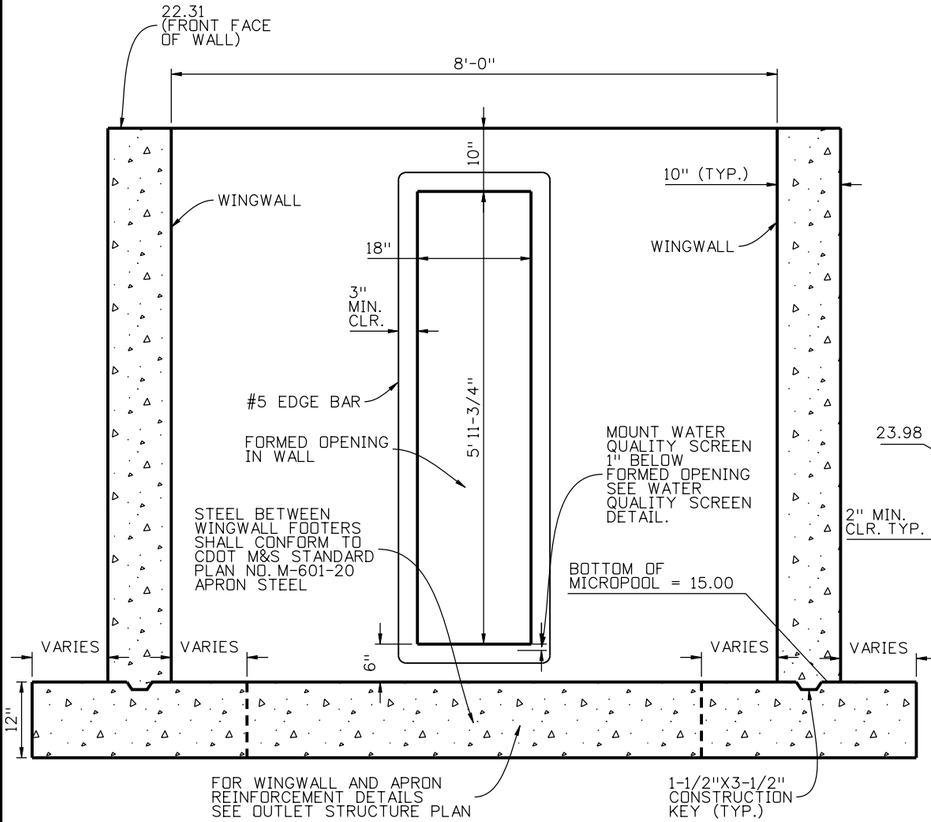
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

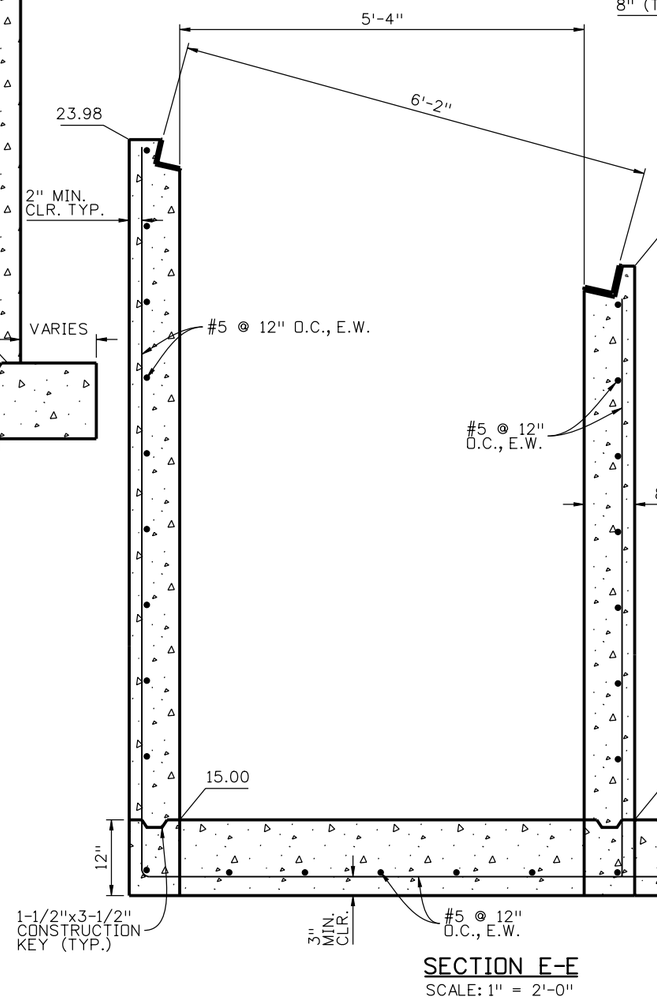
As Constructed	I-25/SANTA FE INTERCHANGE NB SANTA FE WATER QUALITY POND SHEET 3 OF 6			Project No./Code
No Revisions:	Designer: JAY	Structure Numbers		BR 0252-407
Revised:	Detailer: KSP			17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 35 of 53		Sheet Number 531 B

Korina 11:18:19 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_NBSF 12/20/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable.tbl



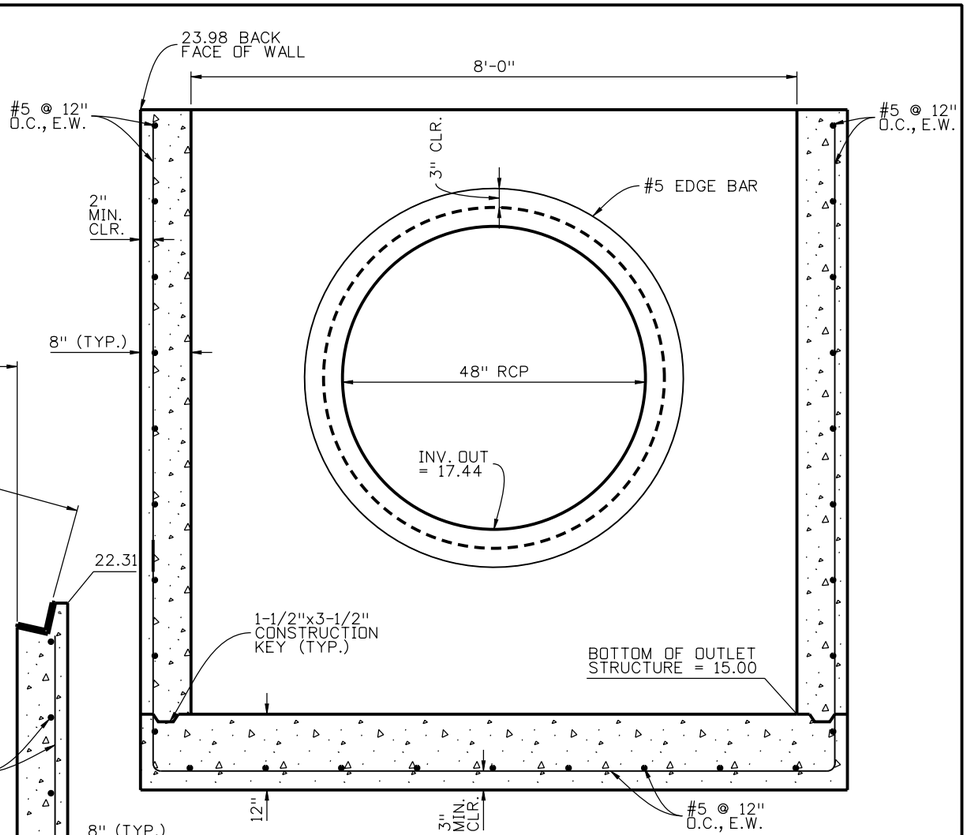
SECTION C-C

SCALE: 1" = 2'



SECTION E-E

SCALE: 1" = 2'-0"



SECTION D-D

SCALE: 1" = 2'

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311_ME_HYDR_PH2_NBSF DETAILS03.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
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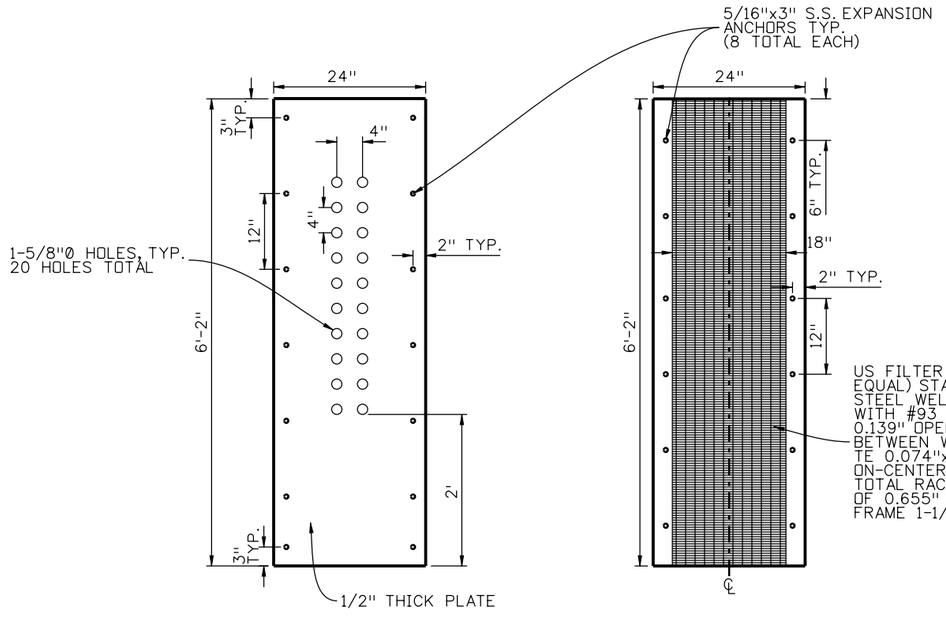
I-25/SANTA FE INTERCHANGE NB SANTA FE WATER QUALITY POND SHEET 4 OF 6			Project No./Code
Designer: JAY	Structure Numbers		BR 0252-407
Detailer: KSP			17783
Sheet Subset: DRAINAGE	Subset Sheets: 36 of 53		Sheet Number 532

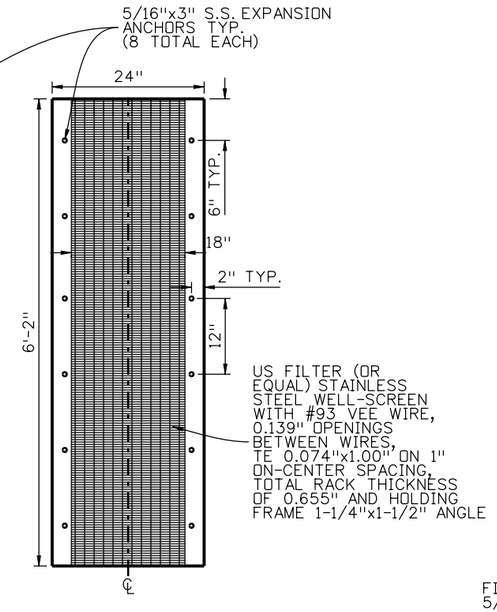
JohnK 1:19:42 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_NBSF DETAILS03.dgn
10/19/2010 CDOT-PDFHighQuality_-XM.pltcfg CDOT-PenTable-4.00.tbl

NOTES:

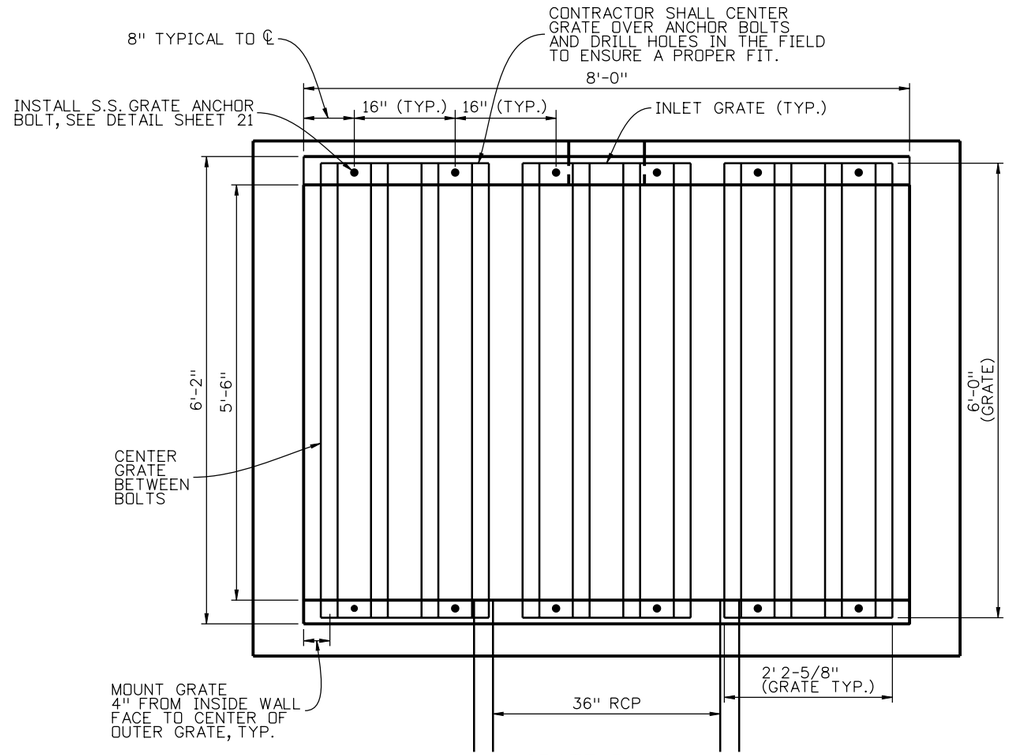
1. CONCRETE SHALL BE CDOT CLASS D.
2. STRUCTURAL STEEL FOR GRATES SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
3. CONTRACTOR SHALL FIELD MEASURE OUTLET STRUCTURE AND ADJUST THE TRASH RACK DIMENSIONS AS NECESSARY, THEN SUBMIT SHOP DRAWINGS TO ENGINNER FOR APPROVAL PRIOR TO FABRICATION OF THE TRASH RACK.
4. J-BOLTS AND HARDWARE USED TO FASTEN GRATE SHALL BE STAINLESS STEEL.
5. OUTLET STRUCTURE GRATING HARDWARE, ORIFICE PLATE, AND WATER QUALITY SCREEN WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE OUTLET STRUCTURE.



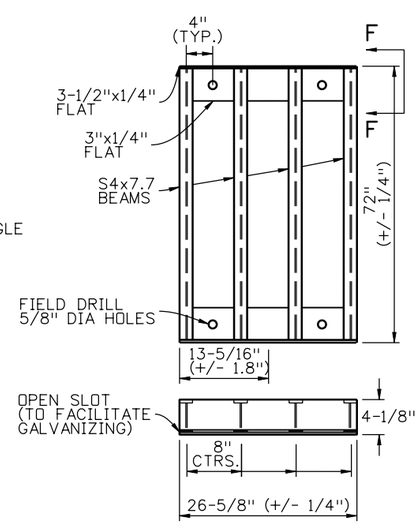
WATER QUALITY ORIFICE PLATE
SCALE: 1" = 2'-0"



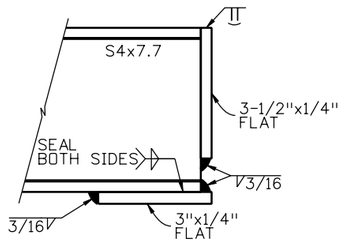
WATER QUALITY SCREEN
SCALE: 1" = 2'-0"



GRATE PLAN
SCALE: 1" = 2'-0"



INLET GRATE
N.T.S.



SECTION F-F
N.T.S.

Print Date: 10/19/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311_ME_HYDR_PH2_NBSF DETAILS02.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
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Unit Information Unit Leader Initials		Region 6 RLB	Void:
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I-25/SANTA FE INTERCHANGE NB SANTA FE WATER QUALITY POND SHEET 5 OF 6			Project No./Code
Designer: JAY	Structure Numbers		BR 0252-407
Detailer:			17783
Sheet Subset: DRAINAGE	Subset Sheets: 37 of 53		Sheet Number 533

JohnK 1:19:50 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_NBSF DETAILS02.dgn
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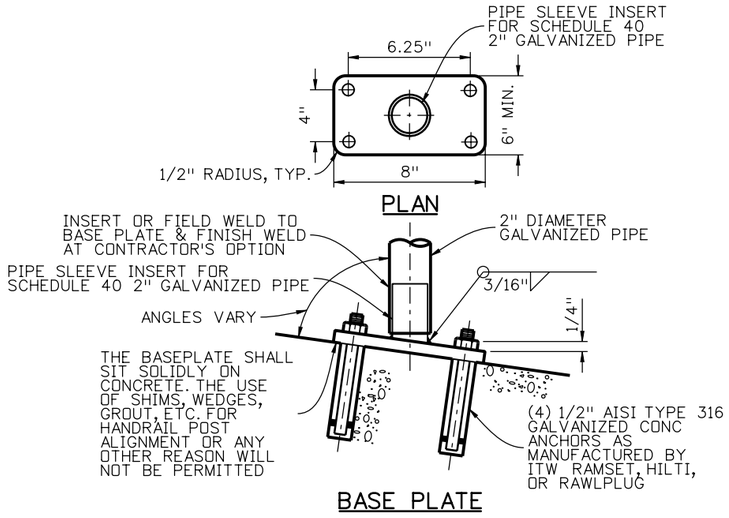
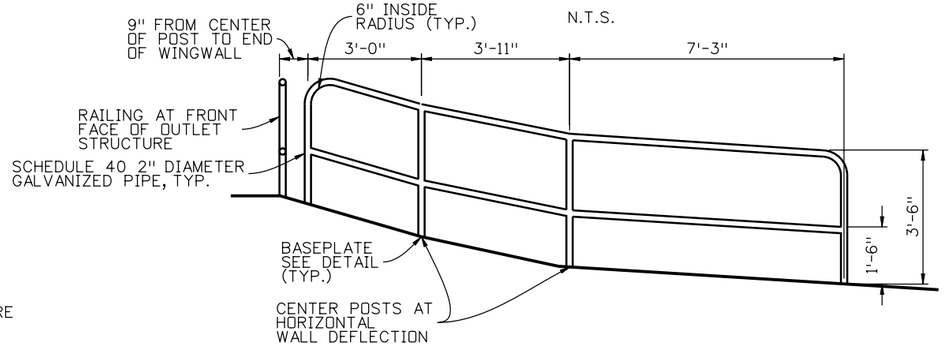


BASE PLATE

NOTES:

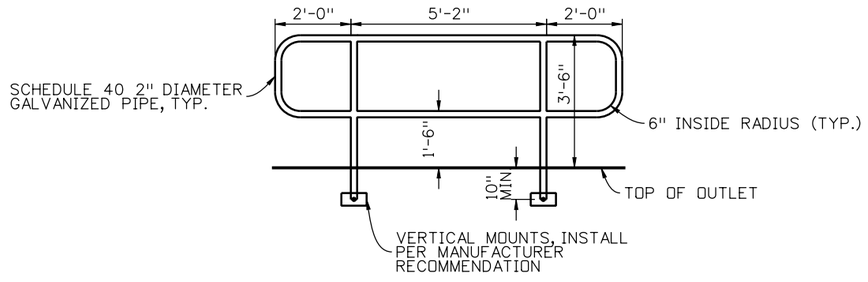
1. CONTRACTOR SHALL FIELD MEASURE OUTLET STRUCTURE, WINGWALLS, AND TRICKLE CHANNEL RUNDOWN DIMENSIONS AS NECESSARY, THEN SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE RAILING.
2. ALL RAILING SHALL BE HOT DIPPED GALVANIZED.
3. OUTLET STRUCTURE RAILING WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE OUTLET STRUCTURE.

N.T.S.



WINGWALL RAILING ELEVATION VIEW

SCALE: 1" = 4'-0"



FRONT FACE OUTLET STRUCTURE RAILING ELEVATION VIEW

SCALE: 1" = 4'-0"

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10/19/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable-4.00.tbl

Print Date: 10/19/2010		Sheet Revisions	
File Name: 16311_ME_HYDR_PH2_NBSF DETAILS04.dgn		Date: / Comments / Init.	
Horiz. Scale: 1:1 Vert. Scale: As Noted			
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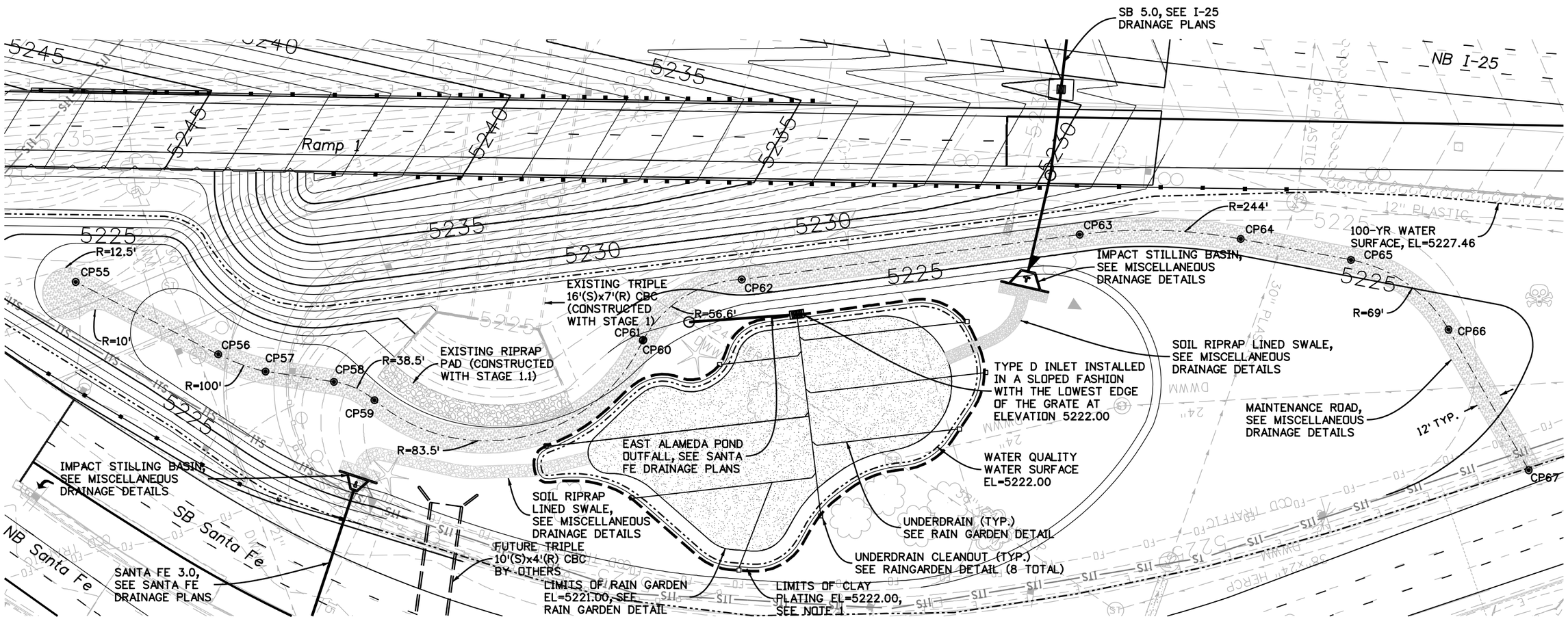
As Constructed	I-25/SANTA FE INTERCHANGE NB SANTA FE WATER QUALITY POND SHEET 6 OF 6			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: JAY	Structure Numbers		17783
Void:	Detailer: KSP			Sheet Number 534
	Sheet Subset: DRAINAGE	Subset Sheets: 38 of 53		



WATER QUALITY POND SUMMARY TABLE

POND TYPE	P.L.D.
DRAIN TIME (HRS)	40
DRAINAGE BASIN AREA (AC)	8.21
DRAINAGE BASIN IMPERVIOUSNESS (%)	74%
OUTLET PIPE SIZE (INCHES)	24"
5-YR POND INFLOW/OUTFLOW (CFS)	14.7
100-YR POND INFLOW/OUTFLOW (CFS)	38.4
WQCV (ACRE-FT)	.25
WQ WSEL (FT.)	5222.00
100-YR WSEL	5223.00

NOTES:

1. A MINIMUM OF TWO FEET THICK COMPACTED CLAY MATERIAL SHALL BE PLACED WITHIN THE LIMITS SHOWN ON THE PLAN AND AT THE DEPTHS SHOWN ON THE RAIN GARDEN DETAIL. THE COMPACTED CLAY MATERIAL SHOULD HAVE AT LEAST A PLASTICITY INDEX OF 12 AND 35% PASSING THE #200 SCREEN. TO BE PAID FOR AS ITEM 203-CLAY PLATING (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
2. UNDERDRAINS SHALL BE INSTALLED WITH 45° OR LESS CONNECTIONS, NO 90° CONNECTIONS ARE ALLOWED.
3. UNDERDRAIN CLEANOUTS SHALL BE INSTALLED AT THE END OF EACH UNDERDRAIN.
4. SEE SHEET 1a OF 2 FOR ADDITIONAL POND CONTROL.

Print Date: 12/20/2010
File Name: 16311_ME_HYDR_PH2_AE Pond Plan.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
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R-2

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	ADD CONTROL PNTS	JAY

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Void:

I-25/SANTA FE INTERCHANGE
EAST ALAMEDA WATER QUALITY POND
SHEET 1 OF 2

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 39 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 535 B

Korina 2:28:11 PM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311_ME_HYDR_PH2_AE Pond Plan.dgn
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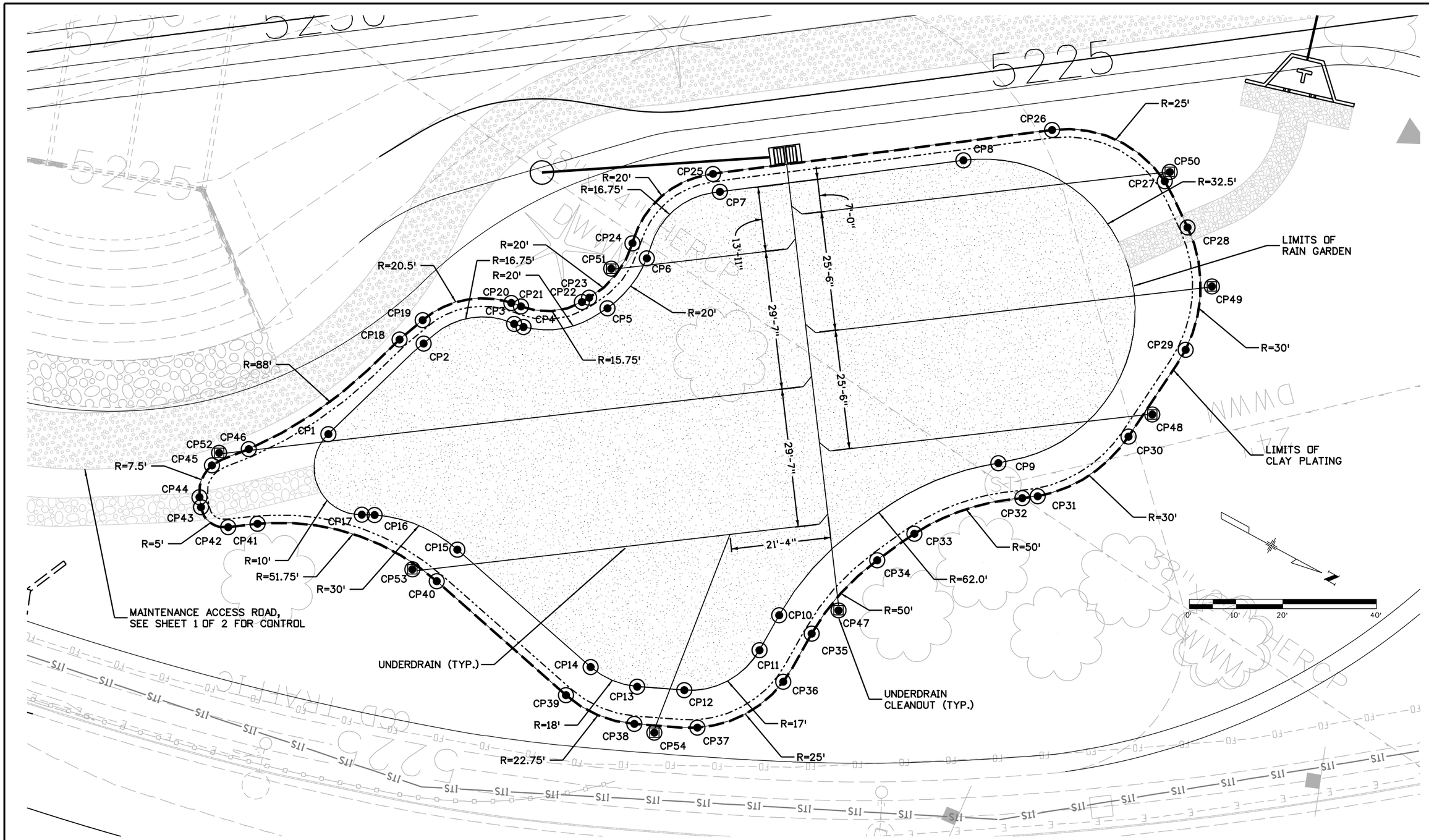

Print Date: 12/20/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE EAST ALAMEDA WATER QUALITY POND SHEET 1a OF 2	Project No./Code
File Name: 16311_ME_HYDR_PH2_AE Pond Plan 3.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:20 Vert. Scale: As Noted	R-2	1/3/2011	ADD CONTROL PNTS	JAY	Region 6 RLB	Revised:	Designer: JAY / Structure Numbers:	17783
Unit Information Unit Leader Initials						Void:	Detailer: KSP	
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings							Sheet Subset: DRAINAGE / Subset Sheets: 39a of 53	Sheet Number 535a B
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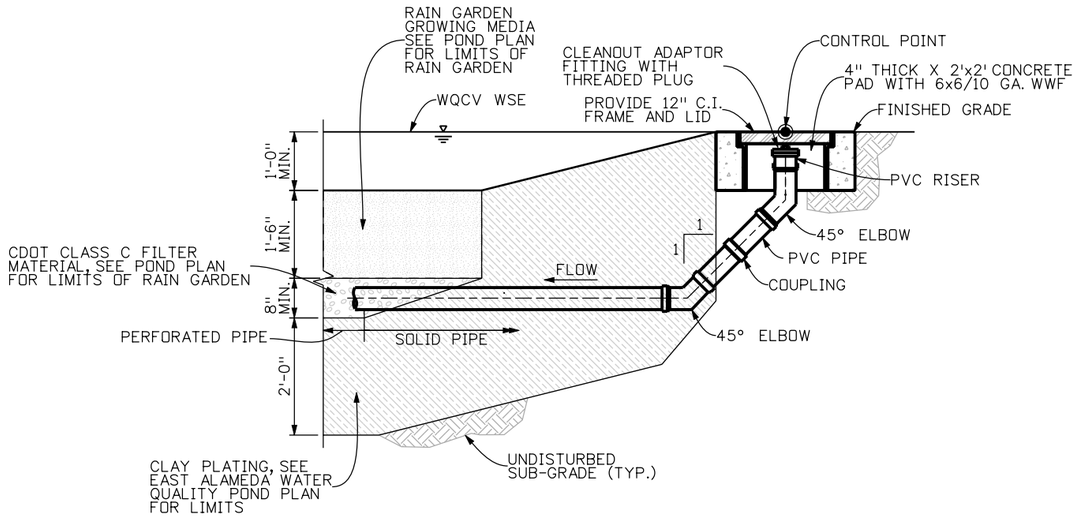

RAIN GARDEN DETAIL

SCALE: 1" = 2'

NOTES:

1. ALL PIPE AND FITTINGS SHALL BE THE SAME SIZE AS THE MAIN SEWER LINE.
2. THE RAIN GARDEN GROWING MEDIA SHALL CONSIST OF 85% COARSE SAND MEETING ASTM C-33 AND 15% RAIN GARDEN COMPOST MIXTURE (BY VOLUME). THE RAIN GARDEN COMPOST MIXTURE SHALL CONSSIT OF 50% CLASS 1 STA REGISTERED COMPOST (APPROXIMATE BULK DENSITY 1,000 LBS/CY) AND 50% LOOSELY PACKED SHREDDED PAPER SIMILAR TO A CARDBOARD GRIND OR GRADE (4) BOXBOARD CUTTINGS WITH AN APPROXIMATE BULK DENSITY AROUND 50 TO 100 LBS/CY.
3. RAIN GARDEN GROWING MEDIA WILL BE PAID FOR AS ITEM 206-FILTER MATERIAL (SPECIAL) (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
4. CDOT CLASS C FILTER MATERIAL WILL BE PAID FOR AS ITEM 206-FILTER MATERIAL (CLASS C) (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
5. CLAY PLATING WILL BE PAID FOR AS ITEM 203 - CLAY PLATING (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
6. UNDERDRAIN PIPE WILL BE PAID FOR AS ITEM 605-PERFORATED UNDERDRAIN (COMPLETE IN PLACE). UNDERDRAIN CLEANOUTS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE WORK.

EAST ALAMEDA WATER QUALITY POND CONTROL POINT TABLE

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	681534.8	960666.28	5221.00	TOP OF RAIN GARDEN	CP24	681572.7	960599.56	5222.00	LIMIT OF CLAY PLATING	CP47	681648.67	960647.78	5222.00	UNDERDRAIN CLEANOUT
CP2	681543.59	960639.56	5221.00	TOP OF RAIN GARDEN	CP25	681580.85	960578.36	5222.00	LIMIT OF CLAY PLATING	CP48	681687.85	960579.2	5222.00	UNDERDRAIN CLEANOUT
CP3	681558.61	960626.69	5221.00	TOP OF RAIN GARDEN	CP26	681640.23	960535.77	5222.00	LIMIT OF CLAY PLATING	CP49	681686.16	960549.07	5222.00	UNDERDRAIN CLEANOUT
CP4	681560.66	960626.33	5221.00	TOP OF RAIN GARDEN	CP27	681666.61	960534.04	5222.00	LIMIT OF CLAY PLATING	CP50	681666.66	960531.77	5222.00	UNDERDRAIN CLEANOUT
CP5	681574.58	960614.34	5221.00	TOP OF RAIN GARDEN	CP28	681675.6	960540.42	5222.00	LIMIT OF CLAY PLATING	CP51	681571.28	960606.50	5222.00	UNDERDRAIN CLEANOUT
CP6	681576.96	960600.95	5221.00	TOP OF RAIN GARDEN	CP29	681687.6	960563.65	5222.00	LIMIT OF CLAY PLATING	CP52	681516.12	960680.83	5222.00	UNDERDRAIN CLEANOUT
CP7	681583.98	960581.01	5221.00	TOP OF RAIN GARDEN	CP30	681685.65	960585.72	5222.00	LIMIT OF CLAY PLATING	CP53	681564.32	960683.2	5222.00	UNDERDRAIN CLEANOUT
CP8	681626.64	960550.46	5221.00	TOP OF RAIN GARDEN	CP31	681674.57	960606.16	5222.00	LIMIT OF CLAY PLATING	CP54	681626.34	960689.45	5222.00	UNDERDRAIN CLEANOUT
CP9	681663.83	960603.94	5221.00	TOP OF RAIN GARDEN	CP32	681671.87	960608.09	5222.00	LIMIT OF CLAY PLATING	CP55	681278.73	960718.49	5223.87	MAINTENANCE ACCESS ROAD CENTERLINE
CP10	681637.98	960654.71	5221.00	TOP OF RAIN GARDEN	CP33	681655.14	960625.69	5222.00	LIMIT OF CLAY PLATING	CP56	681355.89	960716.69	5222.90	MAINTENANCE ACCESS ROAD CENTERLINE
CP11	681637.79	960663.25	5221.00	TOP OF RAIN GARDEN	CP34	681650.84	960634.42	5222.00	LIMIT OF CLAY PLATING	CP57	681379.89	960713.17	5222.80	MAINTENANCE ACCESS ROAD CENTERLINE
CP12	681627.68	960678.43	5221.00	TOP OF RAIN GARDEN	CP35	681645.98	960654.88	5222.00	LIMIT OF CLAY PLATING	CP58	681411.29	960701.97	5222.75	MAINTENANCE ACCESS ROAD CENTERLINE
CP13	681618.45	960682.51	5221.00	TOP OF RAIN GARDEN	CP36	681645.49	960666.82	5222.00	LIMIT OF CLAY PLATING	CP59	681432.76	960700.51	5222.70	MAINTENANCE ACCESS ROAD CENTERLINE
CP14	681607.72	960683.53	5221.00	TOP OF RAIN GARDEN	CP37	681633.93	960684.16	5222.00	LIMIT OF CLAY PLATING	CP60	681533.12	960613.86	5223.74	MAINTENANCE ACCESS ROAD CENTERLINE
CP15	681570.79	960674.94	5221.00	TOP OF RAIN GARDEN	CP38	681621.69	960689.83	5222.00	LIMIT OF CLAY PLATING	CP61	681533.11	960613.43	5223.76	MAINTENANCE ACCESS ROAD CENTERLINE
CP16	681551.69	960676.8	5221.00	TOP OF RAIN GARDEN	CP39	681605.91	960691.32	5222.00	LIMIT OF CLAY PLATING	CP62	681561.17	960565.31	5225.56	MAINTENANCE ACCESS ROAD CENTERLINE
CP17	681549.24	960678.04	5221.00	TOP OF RAIN GARDEN	CP40	681570.07	960682.99	5222.00	LIMIT OF CLAY PLATING	CP63	681694.54	960468.97	5225.60	MAINTENANCE ACCESS ROAD CENTERLINE
CP18	681538.65	960641.24	5222.00	LIMIT OF CLAY PLATING	CP41	681530.53	960690.31	5222.00	LIMIT OF CLAY PLATING	CP64	681763.98	960434.08	5225.50	MAINTENANCE ACCESS ROAD CENTERLINE
CP19	681541.01	960635.25	5222.00	LIMIT OF CLAY PLATING	CP42	681525.35	960693.87	5222.00	LIMIT OF CLAY PLATING	CP65	681815.59	960417.79	5225.26	MAINTENANCE ACCESS ROAD CENTERLINE
CP20	681555.97	960623.05	5222.00	LIMIT OF CLAY PLATING	CP43	681518.23	960692.89	5222.00	LIMIT OF CLAY PLATING	CP66	681872.98	960425.12	5224.80	MAINTENANCE ACCESS ROAD CENTERLINE
CP21	681558.15	960622.71	5222.00	LIMIT OF CLAY PLATING	CP44	681516.95	960691.14	5222.00	LIMIT OF CLAY PLATING	CP67	681939.17	960466.58	5226.11	MAINTENANCE ACCESS ROAD CENTERLINE
CP22	681569.15	960615.72	5222.00	LIMIT OF CLAY PLATING	CP45	681516.05	960683.92	5222.00	LIMIT OF CLAY PLATING					
CP23	681570.1	960614.19	5222.00	LIMIT OF CLAY PLATING	CP46	681521.34	960677.13	5222.00	LIMIT OF CLAY PLATING					

Print Date: 12/20/2010
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Horiz. Scale: 1:1 Vert. Scale: As Noted
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1/3/2011	ADD CONTROL PNTS	JAY

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I-25/SANTA FE INTERCHANGE
EAST ALAMEDA WATER QUALITY POND
SHEET 2 OF 2

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 40 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 536 B

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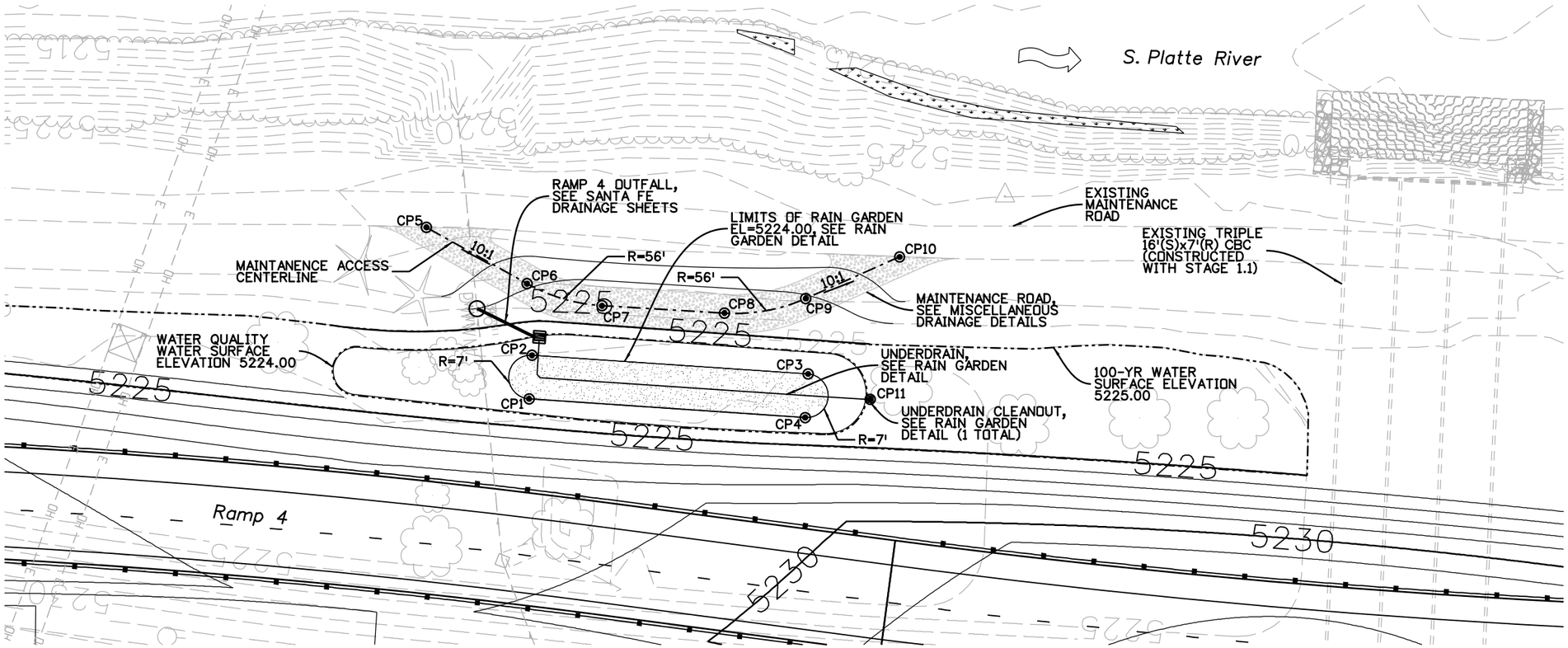

NOTES:

1. UNDERDRAINS SHALL BE INSTALLED WITH 45° OR LESS CONNECTIONS, NO 90° CONNECTIONS ARE ALLOWED.
2. UNDERDRAIN CLEANOUTS SHALL BE INSTALLED AT END OF EACH UNDERDRAIN.
3. SEE SHEET 2 OF 2 FOR POND CONTROL.

WATER QUALITY POND SUMMARY TABLE

POND TYPE	P.L.D.
DRAIN TIME (HRS)	40
DRAINAGE BASIN AREA (AC)	3.21
DRAINAGE BASIN IMPERVIOUSNESS (%)	10%
OUTLET PIPE SIZE (INCHES)	18"
5-YR POND INFLOW/OUTFLOW (CFS)	3.6
100-YR POND INFLOW/OUTFLOW (CFS)	11.4
WQCV (ACRE-FT)	0.03
WQWSEL (FT.)	5224.00
100-YR WSEL	5225.00

Print Date: 12/20/2010
File Name: 16311ME_HYDR_PH2_Ramp 4 Pond1.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
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I-25/SANTA FE INTERCHANGE
RAMP 4 WATER QUALITY POND
SHEET 1 OF 2

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 41 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 537 B

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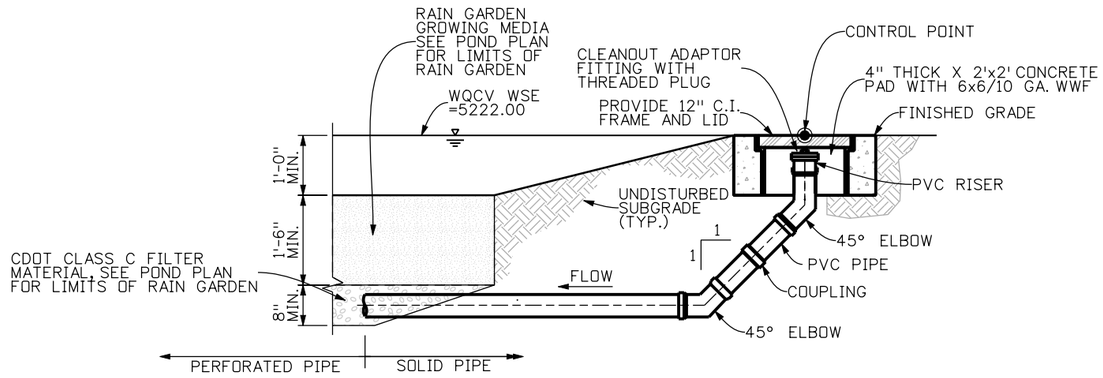
RAMP 4 WATER QUALITY POND CONTROL POINT TABLE				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	681063.49	960348.81	5223.00	TOP OF RAIN GARDEN
CP2	681016.94	960344.34	5223.00	TOP OF RAIN GARDEN
CP3	681143.8	960308.76	5223.00	TOP OF RAIN GARDEN
CP4	681148.02	960322.11	5223.00	TOP OF RAIN GARDEN
CP5	681012.84	960309.63	5228.12	CENTERLINE OF MAINTANENCE ACCESS
CP6	681049.39	960314.69	5226.15	CENTERLINE OF MAINTANENCE ACCESS
CP7	681074.33	960312.5	5225.45	CENTERLINE OF MAINTANENCE ACCESS
CP8	681111.76	960300.37	5225.45	CENTERLINE OF MAINTANENCE ACCESS
CP9	681134.28	960286.51	5225.90	CENTERLINE OF MAINTANENCE ACCESS
CP10	681157.43	960263.15	5227.39	CENTERLINE OF MAINTANENCE ACCESS
CP11	681165.26	960309.05	5224.00	UNDERDRAIN CLEANOUT



RAIN GARDEN DETAIL

SCALE: 1" = 2'

NOTES:

1. ALL PIPE AND FITTINGS SHALL BE THE SAME SIZE AS THE MAIN SEWER LINE.
2. THE RAIN GARDEN GROWING MEDIA SHALL CONSIST OF 85% COARSE SAND MEETING ASTM C-33 AND 15% RAIN GARDEN COMPOST MIXTURE (BY VOLUME). THE RAIN GARDEN COMPOST MIXTURE SHALL CONSSIT OF 50% CLASS 1 STA REGISTERED COMPOST (APPROXIMATE BULK DENSITY 1,000 LBS/CY) AND 50% LOOSELY PACKED SHREDDED PAPER SIMILAR TO A CARDBOARD GRIND OR GRADE (4) BOXBOARD CUTTINGS WITH AN APPROXIMATE BULK DENSITY AROUND 50 TO 100 LBS/CY.
3. RAIN GARDEN GROWING MEDIA WILL BE PAID FOR AS ITEM 206-FILTER MATERIAL (SPECIAL) (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
4. CDOT CLASS C FILTER MATERIAL WILL BE PAID FOR AS ITEM 206-FILTER MATERIAL (CLASS C) (COMPLETE IN PLACE). COST OF EXCAVATION IS INCLUDED IN THE COST OF THE WORK.
5. UNDERDRAIN PIPE WILL BE PAID FOR AS ITEM 605-PERFORATED UNDERDRAIN (COMPLETE IN PLACE). UNDERDRAIN CLEANOUTS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE WORK.

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I-25/SANTA FE INTERCHANGE
RAMP 4 WATER QUALITY POND
SHEET 2 OF 2

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 42 of 53

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BR 0252-407
17783
Sheet Number 538 B

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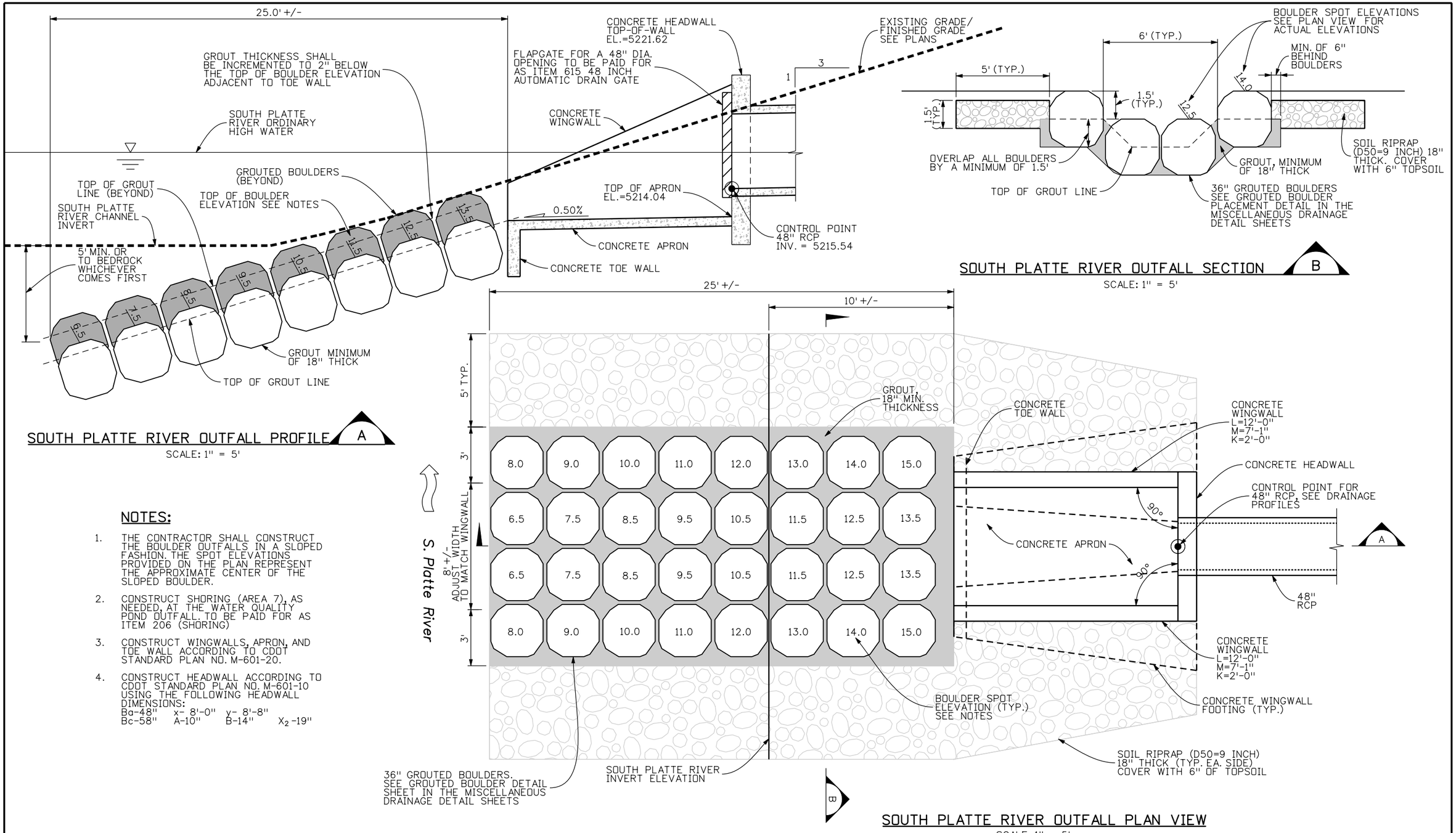

NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE BOULDER OUTFALLS IN A SLOPED FASHION. THE SPOT ELEVATIONS PROVIDED ON THE PLAN REPRESENT THE APPROXIMATE CENTER OF THE SLOPED BOULDER.
2. CONSTRUCT SHORING (AREA 7), AS NEEDED, AT THE WATER QUALITY POND OUTFALL. TO BE PAID FOR AS ITEM 206 (SHORING)
3. CONSTRUCT WINGWALLS, APRON, AND TOE WALL ACCORDING TO CDOT STANDARD PLAN NO. M-601-20.
4. CONSTRUCT HEADWALL ACCORDING TO CDOT STANDARD PLAN NO. M-601-10 USING THE FOLLOWING HEADWALL DIMENSIONS:
   Ba-48" x- 8'-0" y- 8'-8"
   Bc-58" A-10" B-14" X_2 -19"

Print Date: 12/20/2010		Sheet Revisions	
File Name: 16311HYDR_PH2_CBC Sections_R1.dgn		Date:	Comments	Init.
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I-25/SANTA FE INTERCHANGE
SOUTH PLATTE RIVER
STORM SEWER OUTFALL DETAILS

Designer: JAM
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 43 of 53

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17783
Sheet Number 539 B

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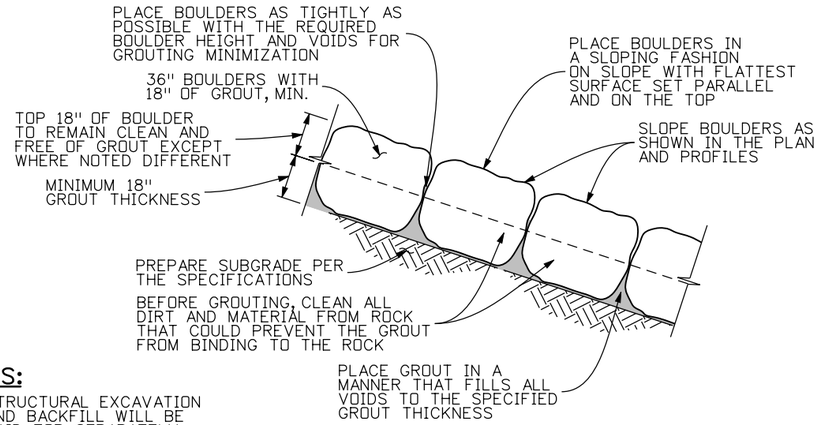


NOTES:

1. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.

GROUTED BOULDER PLACEMENT DETAIL

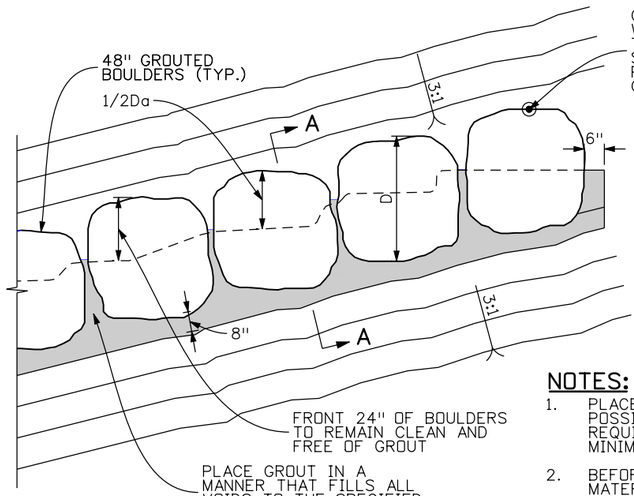
SCALE: 1" = 5'

GROUT NOTES:
MATERIAL SPECIFICATIONS

1. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
2. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
3. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
4. TYPE B GROUT SHALL BE USED.
5. FOR TYPE B GROUT THE AGGREGATE SHALL BE COMPRISED OF 3/4-INCH MAXIMUM GRAVEL, STRUCTURAL CONCRETE AGGREGATE.
6. THE GROUT SLUMP SHALL BE 4-INCHES TO 6-INCHES.
7. AIR ENTRAINMENT SHALL BE 5.5% - 7.5%.
8. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVELENT, SHALL BE USED PER CUBIC YARD OF GROUT.

PLACEMENT SPECIFICATIONS

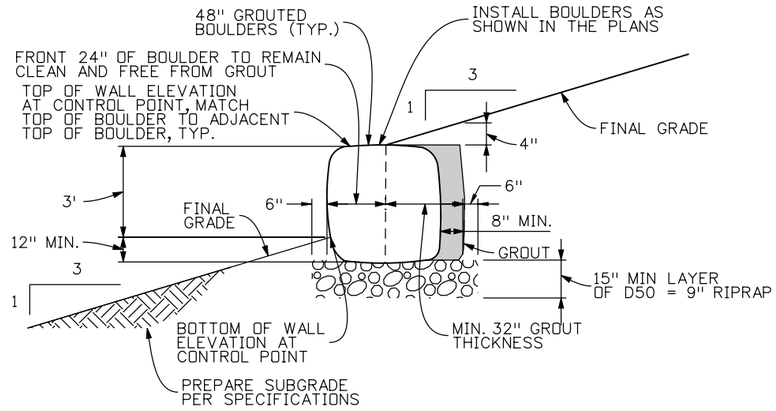
1. TYPE B GROUT SHALL BE DELIVERED BY MEANS OF A LOW PRESSURE (LESS THAN 10 PSI) CONCRETE PUMP USING A 3-INCH DIAMETER NOZZLE.
2. FULL DEPTH PENETRATION OF THE GROUT INTO THE BOULDER VOIDS SHALL BE ACHIEVED BY INJECTING GROUT STARTING WITH THE NOZZLE NEAR THE BOTTOM AND RAISING IT AS GROUT FILLS, WHILE VBIBRATING GROUT INTO PLACE USING A PENCIL VIBRATOR.
3. AFTER GROUT PLACEMENT, EXPOSED BOULDER FACES SHALL BE CLEANED WITH A WET BROOM.
4. ALL GROUT BETWEEN BOULDERS SHALL BE TREATED WITH A BROOM FINISH.
5. ALL FINISHED GROUT SURFACES SHALL BE SPRAYED WITH A CLEAR LIQUID MEMBRANE CURING COMPOUND AS SPECIFIED IN ASTM C-309.
6. SPECIAL PROCEDURES SHALL BE REQUIRED FOR GROUT PLACEMENT WHEN THE AIR TEMPERATURES ARE LESS THAN 40° F OR GREATER THAN 90° F. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER OF THE PROCEDURES TO BE USED FOR PROTECTING THE GROUT.
7. CLEAN BOULDERS BY BRUSHING AND WASHING BEFORE GROUTING.
8. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVELENT, SHALL BE USED PER CUBIC YARD OF GROUT.



NOTES:

1. PLACE BOULDERS AS TIGHTLY AS POSSIBLE WHILE MAINTAINING THE REQUIRED HEIGHT AND VOIDS TO MINIMIZE GROUTING.
2. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIALS FROM ROCK THAT COULD PREVENT THE GROUT FROM BONDING TO ROCK.
3. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.

PLAN



SECTION A-A

GROUTED SINGLE BOULDER WALL DETAIL

SCALE: 1" = 5'

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No Revisions:	Designer: JAM	Structure Numbers		BR 0252-407
Revised:	Detailer: KSP			17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 44 of 53		Sheet Number 540 B

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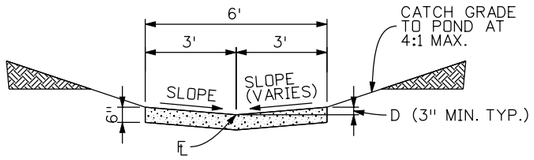
NOTES:

1. CONCRETE SHALL BE CLASS D.
2. SAW CUT JOINTS EVERY 10' WITH A MINIMUM 1-1/2" DEPTH.
3. RUNDOWN WIDTH SHALL BE 6' UNLESS OTHERWISE NOTED ON DRAINAGE PLAN SHEETS.
4. SLOPE SHALL MATCH PROPOSED DITCH CROSS SLOPE, SEE DRAINAGE PLAN SHEETS FOR SLOPE/GRADING ELEVATIONS.
5. THE DEPTH (D) SHALL VARY WITH PROPOSED DITCH GRADING, HOWEVER A MINIMUM DEPTH OF 3" IS REQUIRED.
6. DOWELL CONCRETE LINED SWALE INTO NORTH BOUND SANTA FE CONCRETE POND BOTTOM USING 2'-0" NO. 5 BARS, 12" O.C., 12" INTO EACH STRUCTURE.
7. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.

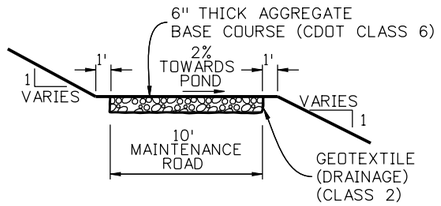


CONCRETE LINED SWALE

SCALE: 1" = 5'

NOTES:

1. STRUCTURAL EXCAVATION AND BACKFILL FOR THE MAINTENANCE ROAD WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE WORK.

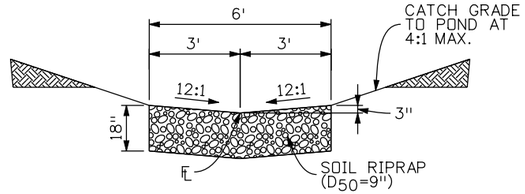


MAINTENANCE ROAD DETAIL

SCALE: 1" = 10'

NOTES:

1. TYPE L SOIL RIPRAP WITH D_{50}=9".
2. MINIMUM 3" DEPRESSION IN RIPRAP CHANNEL TO FLOW LINE TO POND BOTTOM.
3. STRUCTURAL EXCAVATION AND BACKFILL FOR THE SOIL RIPRAP LINED SWALE WILL NOT BE PAID FOR SEPARTELY BUT WILL BE INCLUDED IN THE COST OF THE WORK.

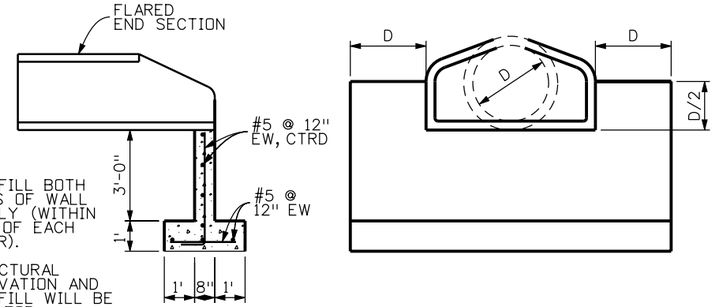


SOIL RIPRAP LINED SWALE

SCALE: 1" = 5'

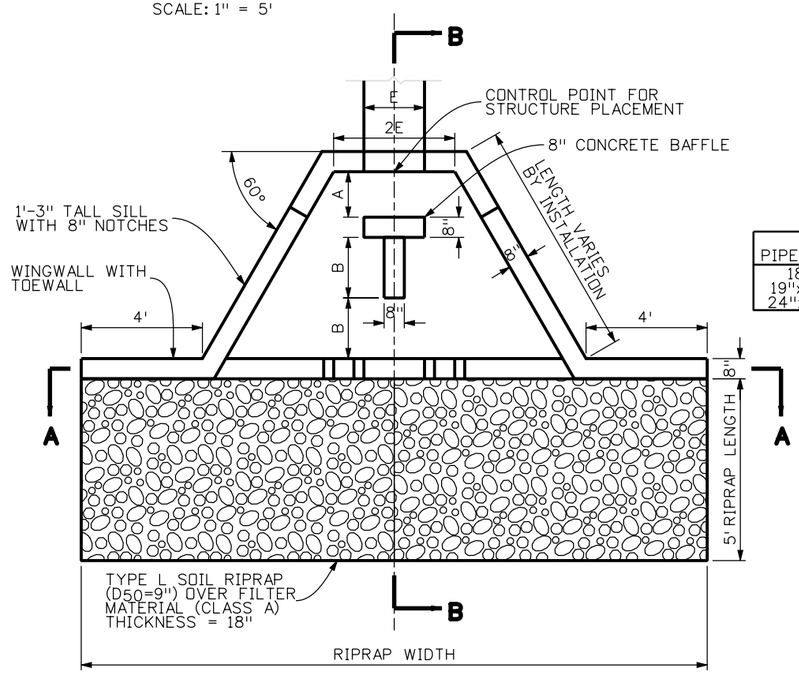
NOTES:

1. BACKFILL BOTH SIDES OF WALL EVENLY (WITHIN 1'-0" OF EACH OTHER).
2. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.



TOEWALL DETAIL

SCALE: 1" = 5'



PLAN

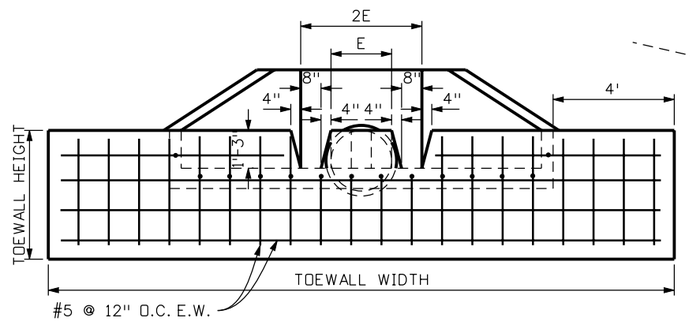
SCALE: 1" = 5'

NOTES:

1. ALL CONCRETE SHALL BE CDOT CLASS B.
2. 9" OF TYPE II BEDDING SHALL BE PLACED UNDER STRUCTURAL SLAB.
3. 3" CLEAR FOR ALL REINFORCEMENT.
4. STRUCTURAL EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.

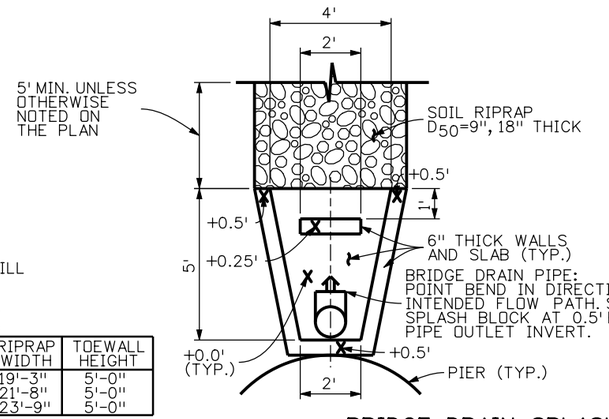
IMPACT BASIN DIMENSION TABLE

PIPE SIZE	A	B	D	E	TOEWALL WIDTH	RIPRAP WIDTH	TOEWALL HEIGHT
18"	13-1/2"	24"	18"	18"	19'-3"	19'-3"	5'-0"
19"x30"	18"	24"	19"	30"	21'-8"	21'-8"	5'-0"
24"x38"	22-1/2"	24"	24"	38"	23'-9"	23'-9"	5'-0"



ELEVATION - SECTION A

SCALE: 1" = 5'

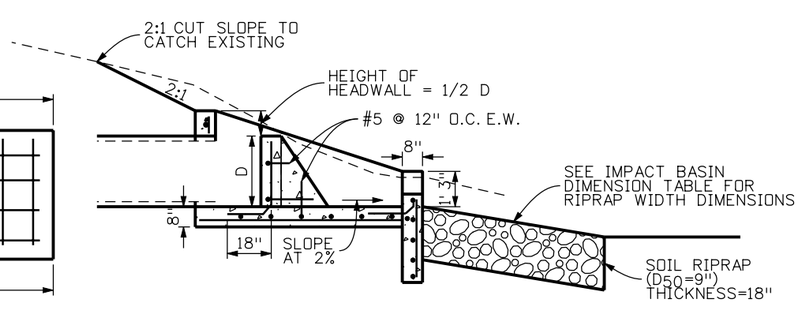


BRIDGE DRAIN SPLASH BLOCK DETAIL

SCALE: 1" = 5'

NOTES:

1. NO. 5 REBAR O.C.E.W. AT 12" SPACING.
2. CONCRETE SHALL BE CDOT CLASS D.
3. USE 3/4" CHAMFERS ON ALL EXPOSED EDGES.
4. SEE PLANS FOR ANY ADDITIONAL SURFACE TREATMENT REQUIRED DOWNSTREAM OF SPLASH BLOCKS IF NECESSARY.
5. STRUCTURE EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.



PROFILE - SECTION B

SCALE: 1" = 5'

CONCRETE IMPACT BASIN

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303-988-4939
P: 9904.12 /16311/HYDRAULICS/Drawings

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
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I-25/SANTA FE INTERCHANGE
MISCELLANEOUS DRAINAGE DETAILS
SHEET 2 OF 2

Designer:	JAM	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	45 of 53

Project No./Code: BR 0252-407
17783
Sheet Number 541

JohnK 1:20:47 AM P:\9904.12 I-25 Santa Fe Alameda Interchange - FHU\16311\Hydraulics\Drawings\Phase 2\16311HYDR_PH2_DETAIL08.dgn
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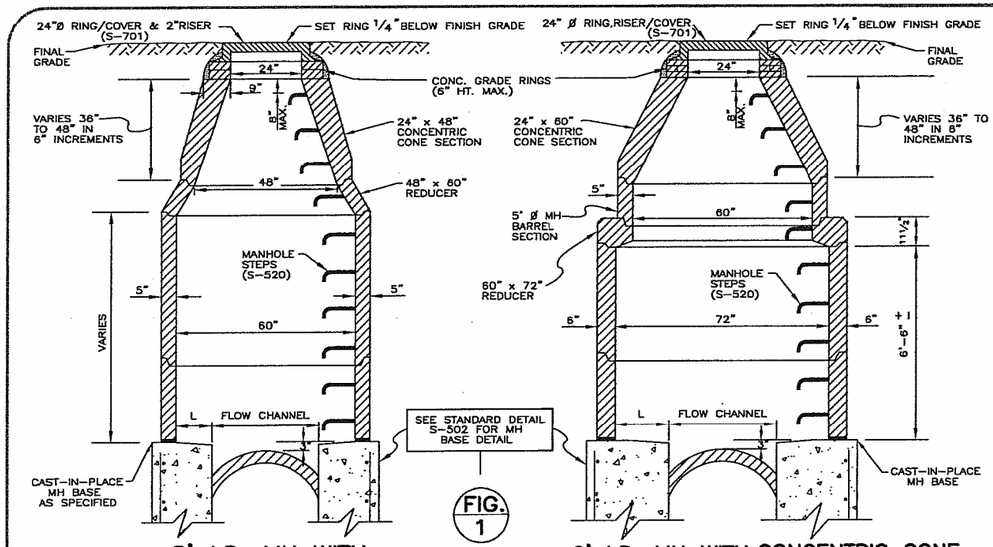


5' I.D. MH WITH CONCENTRIC CONE

▷ (30", 33" & 36" DIA. PIPE)

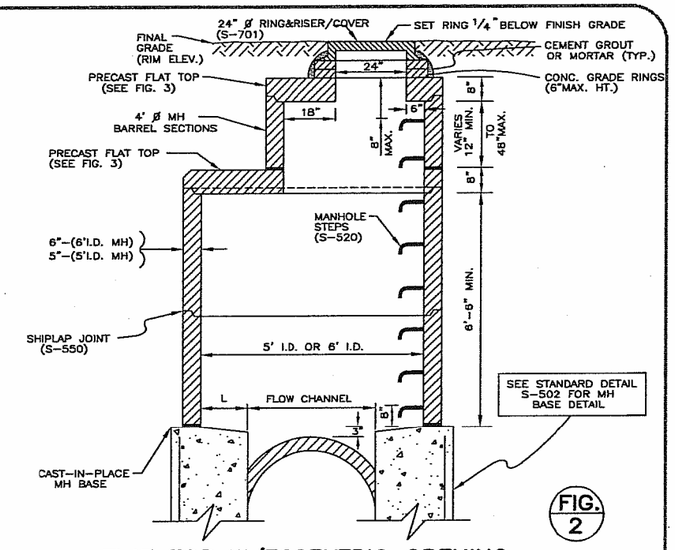
FIG. 1

6' I.D. MH WITH CONCENTRIC CONE

(42" ø PIPE)

▷ TO BE USED ONLY AT SPECIFIC DIRECTION OF THE ENGINEER

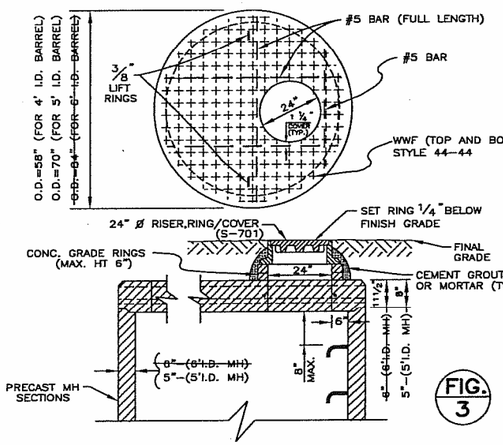
48" DIA. & LARGER MH'S SHALL BE TYPE B(S-503) OR TYPE P(S-504).



FLAT TOP W/ECCENTRIC OPENING

▷ 5' I.D. MANHOLE (33" ø & 36" ø PIPE) OR 6' I.D. MANHOLE (42"ø PIPE)

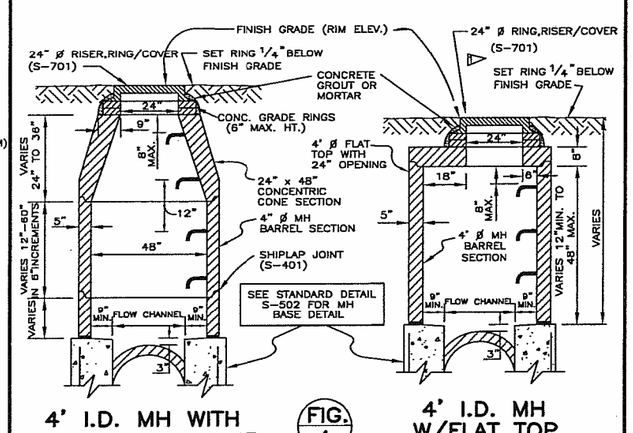
FIG. 2



FLAT TOP W/ECCENTRIC OPENING

▷ 5' I.D. MANHOLES

FIG. 3



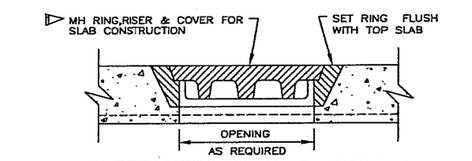
4' I.D. MH WITH CONCENTRIC CONE

(30" ø PIPE OR LESS)

FIG. 4

4' I.D. MH W/FLAT TOP

(FOR SHALLOW COVER LESS THAN 4' TO BENCH)



ALTERNATE RING & COVER

(TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED.)

(NON-ADJUSTABLE RING & COVER TO BE CAST IN FLAT TOP)

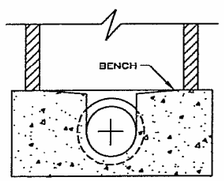


FIG. 5

IDEAL MH CHANNEL SECTION

(SEE STD. DETAIL S-502)

1. RING/COVER & 2" RISER SHALL BE SET ON A FULL BED OF MORTAR. (TYPE II CEMENT TYPICAL).
2. FLAT TOP SECTIONS (FIG. 2, 3, & 4), MAY BE USED IN LIEU OF CONCENTRIC MANHOLES WHEN SPECIFICALLY APPROVED BY THE PROJECT ENGINEER.
3. FOR MANHOLE DEPTHS LESS THAN 4' FROM RIM TO TOP OF BENCH, VERTICAL MANHOLE BARRELS WITH PRECAST FLAT TOP SECTIONS ARE REQUIRED.
4. ALL PRECAST MANHOLE SECTIONS, FLAT TOPS, BARRELS, REDUCERS ETC. SHALL CONFORM TO ASTM C-478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED MANHOLE SECTIONS.
5. FLAT TOPS (FIG. 2, 3, & 4) SHALL BE CAPABLE OF WITHSTANDING H-20 LIVE LOADS.
6. FLAT TOP SECTION WITH CONCENTRIC OPENING IS NOT ALLOWED. (SEE FIG. 3.)
7. ALL MANHOLE BARRELS, CONES, FLAT TOP SECTIONS AND RINGS SHALL INDICATED DATE, MANUFACTURER, SIZE AND ASTM C-478.
8. FOR DEPTHS GREATER THAN 20' (RIM TO INVERT) SHOP DRAWINGS, CALCULATIONS OF WALLS, TOP AND BOTTOM SLABS SHAL BE SUBMITTED.
9. AN APPROVED FLEXIBLE PLASTIC SEALANT IS REQUIRED IN SHIPLAP JOINTS AND IN JOINTS BETWEEN FLAT TOP BARREL SECTIONS, CONE SECTIONS, ETC.
10. DIMENSION L ="S" MINIMUM FOR ALL SANITARY SEWER MANHOLES (FIG. 1 & 2).
11. DESIGN ENGINEER OR PROJECT ENGINEER MAY INCREASE MH SIZE FOR SPECIAL DESIGN CONSIDERATIONS.
12. SET 24" MANHOLE RING 1/4 "BELOW FINISH GRADE ALL MANHOLES. (TYPICAL FOR ALL APPLICATIONS UNLESS DETAILED OTHERWISE.)
13. ALL MORTAR AND GROUT SHALL USE TYPE II CEMENT.
14. FACE OF GRADE RINGS & SHIPLAP JOINTS SHALL BE GROUTED WITH AN APPROVED NON-SHRINK GROUT.
15. MANHOLE STEPS SHALL NOT BE INSTALLED OVER THE FLOW CHANNEL. THEY SHALL BE PLACED 12" MINIMUM OR 16" MAXIMUM IN STRAIGHT VERTICAL ALIGNMENT WITH THE BOTTOM STEP 8" ABOVE THE BENCH MINIMUM. SEE STANDARD DETAIL S-750 AND S-502.
16. ▷ THE NUMBER OF CONNECTORS INTO A MANHOLE SHALL BE LIMITED TO TWO.
17. ▷ 8"DIA MH'S ALLOWED ONLY WITH 42" PIPE AND SPECIFIC APPROVAL OF THE ENGINEER.

REVISED	BY	DATE
▷	I.J.	1/02

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
STANDARD PRECAST MANHOLE BARREL AND TOP SECTIONS
(24" Ø RING AND COVER)

ISSUE DATE	DRAWN BY	SHEET NO.	DRAWING NO.
8/94	CHECKED BY	OF SHEETS	S-501.1

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Print Date: 10/19/2010
File Name: 16311HYDR_PH2_DETAIL01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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P: 9904.12 /16311/HYDRAULICS/Drawings
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303-988-4939

Sheet Revisions		
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I-25/SANTA FE INTERCHANGE
CITY AND COUNTY OF DENVER
DETAILS SHEET 1 OF 8

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 46 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 542

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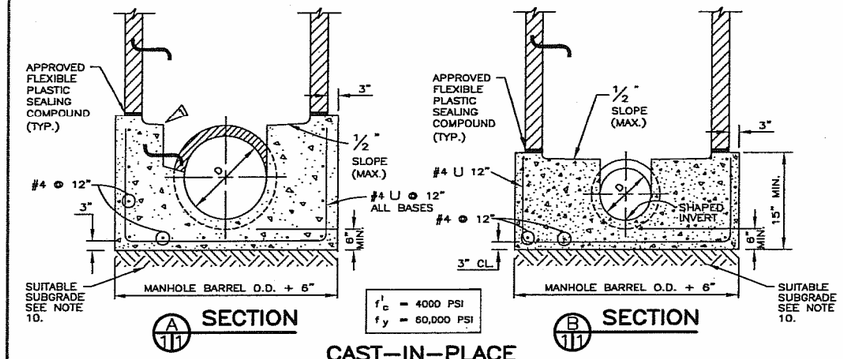
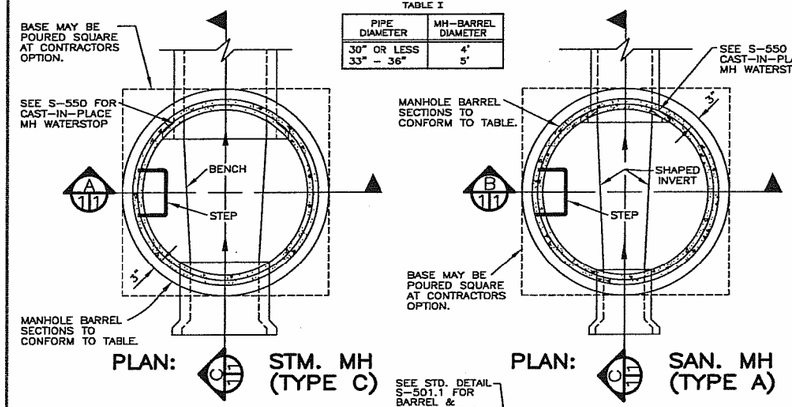


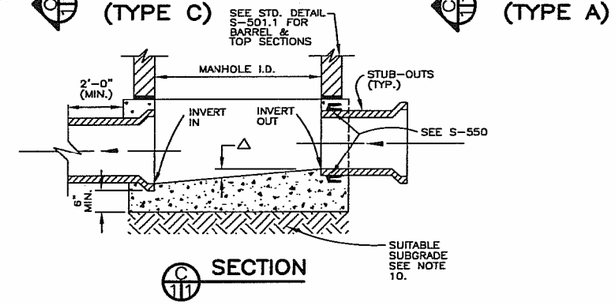
f'_c = 4000 PSI
f_y = 60,000 PSI

CAST-IN-PLACE

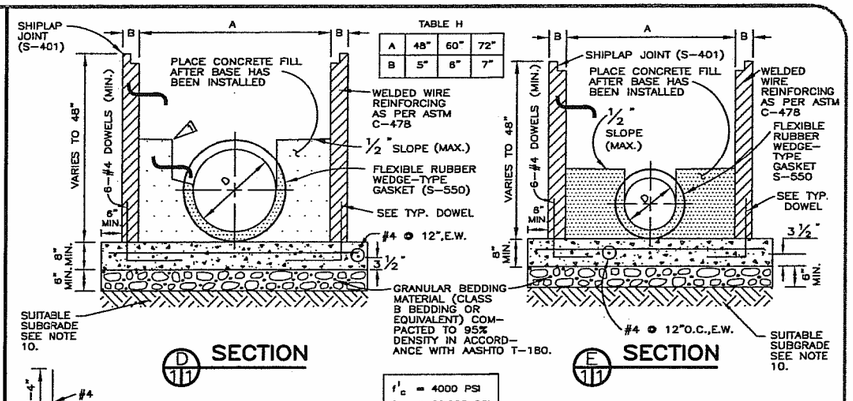
TABLE I

PIPE DIAMETER	MH-BARREL DIAMETER
30" OR LESS	4'
33" – 36"	5'





NOTES:
1. MANHOLE BARREL MINIMUM DIAMETER SHALL CONFORM TO TABLE I.
2. GROUTED FLOW CHANNELS AND INVERTS MAY BE FORMED BY SHAPING WITH LEAN CONCRETE (f'_c =2000 PSI MIN.).
3. MANHOLE STEPS SHALL CONFORM TO DIVISION SPECIFICATIONS AND WMD STANDARD DETAILS S-750.
4. ALL DEAD END MANHOLES SHALL BE STUBBED THRU AT 0.40% MINIMUM SLOPE.
5. STUB-OUTS SHALL EXTEND 2'-0" MIN. PAST MANHOLE O.D. AND BE SATISFACTORILY PLUGGED.
6. REINFORCING IS REQUIRED FOR ALL MANHOLE BASES.
7. SLOPE MANHOLE BENCH 1/2" MAXIMUM TOWARD FLOW CHANNEL.
8. △=INVERT DROP THRU MANHOLE. FOR SANITARY SEWERS, IF △ ≥ 18", AN OUTSIDE DROP MANHOLE IS REQUIRED (S-530).
9. SHIPLAP JOINTS ON MANHOLE BARREL RISER SHALL CONFORM TO DIVISION STANDARDS AND SPECIFICATIONS (S-401).
10. ALL MANHOLE BASES SHALL BE PLACED ON SUITABLE SUBGRADE MATERIAL. AT THE DIRECTION OF THE ENGINEER THE SUBGRADE SHALL BE OVEREXCAVATED AND STABILIZED WITH AN ACCEPTABLE GRANULAR MATERIAL, COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO T-180.
11. ALL PIPE OPENINGS SHALL BE CONSTRUCTED WITH AN APPROVED FEXIBLE WEDGE-TYPE GASKET CONFORMING TO ASTM C-443 WHICH SHALL BE CAPABLE OF PROVIDING A WATER TIGHT JOINT WITH ZERO LEAKAGE AROUND THE INSTALLED PIPE (SEE S-550). AN APPROVED FLEXIBLE BOOT TYPE SLEEVE MAY ALSO BE USED FOR PRECAST INSTALLATIONS.
12. PRECAST BARREL SECTIONS, CONES, RISERS, ETC. SHALL CONFORM TO ASTM C-478, LATEST REVISION.

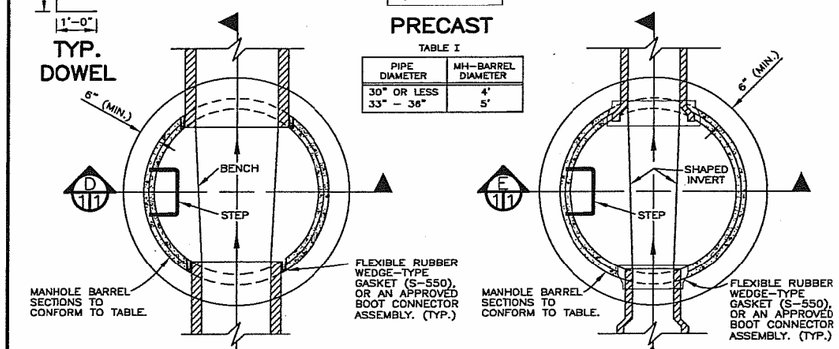


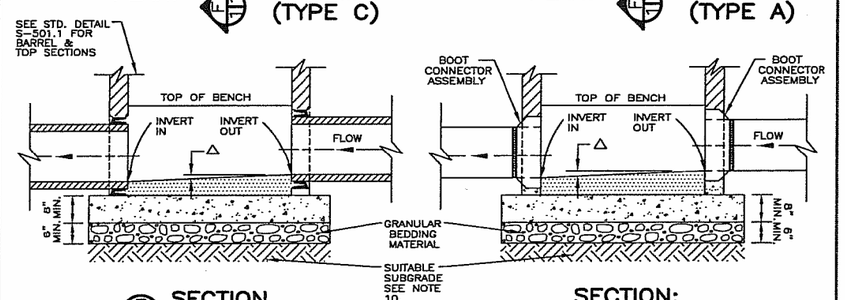
f'_c = 4000 PSI
f_y = 60,000 PSI

PRECAST

TABLE I

PIPE DIAMETER	MH-BARREL DIAMETER
30" OR LESS	4'
33" – 36"	5'





PRECAST MANHOLE BASES:
1. THE BASE SLAB SHALL BE POURED MONOLITHIC WITH BOTTOM RISER SECTION.
2. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED SHALL BE REJECTED BY THE CITY AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
3. PRECAST MANHOLE BASES ARE TO BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS DETAILED ABOVE.

REVISED	BY	DATE
1	IJ	1/02

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
STANDARD MANHOLE BASE CONSTRUCTION TYPE A AND TYPE C (PRECAST SECTIONS & CAST-IN-PLACE)

ISSUE DATE	DRAWN BY	SHEET NO.	DRAWING NO.
5/04	DJK	1 OF 1 SHEETS	S-502
	CHECKED BY LJ		

Print Date: 10/19/2010	
File Name: 16311HYDR_PH2_DETAIL02.dgn	
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

MULLER ENGINEERING CO, INC
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I-25/SANTA FE INTERCHANGE
CITY AND COUNTY OF DENVER
DETAILS SHEET 2 OF 8

Designer:	JAY	Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	47 of 53

Project No./Code	
BR 0252-407	
17783	
Sheet Number	543

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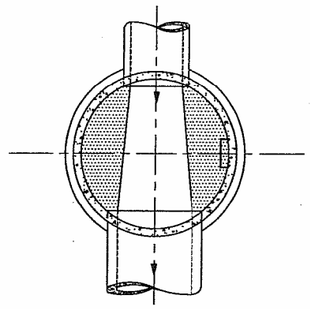
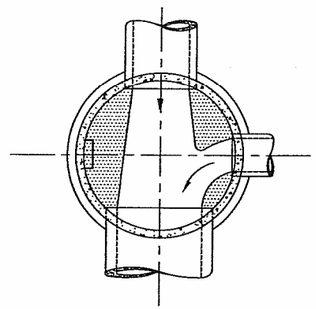
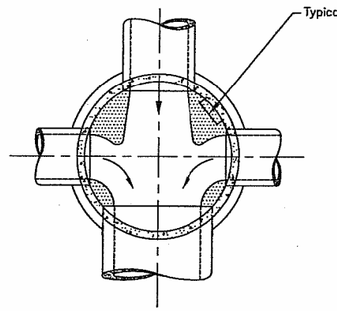


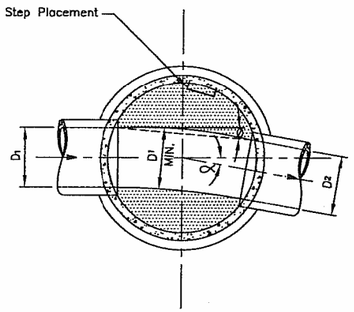
THROUGH PIPE



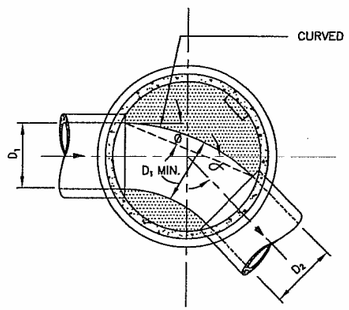
THROUGH PIPE
ONE LATERAL



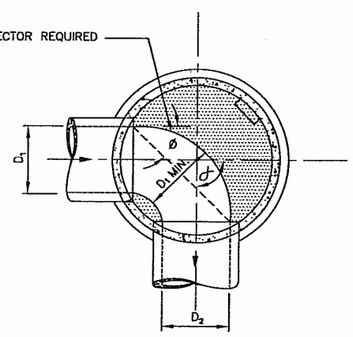
THROUGH PIPE
TWO LATERALS



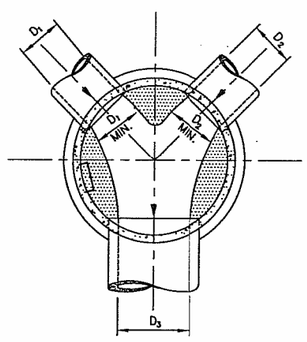
SLIGHT ANGLE
ø ≤ 15°
α ≤ 30°



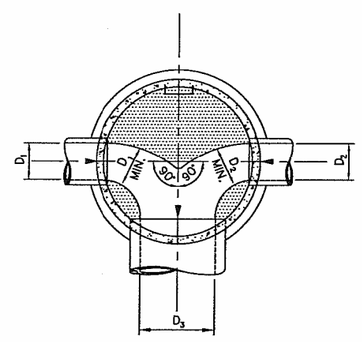
INTERMEDIATE ANGLE
ø = α
30° < α < 90°



SHARP ANGLE
ø = 45°
α = 90°



ANGLED LATERALS



OPPOSED LATERALS

NOTES:
1. DETAILS SHOWN ARE TYPICAL ONLY FOR INSTALLATIONS WITH ALL INVERTS AT SAME RELATIVE ELEVATION.
2. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, ETC. SPECIAL BASE/CHANNEL DETAILS SHALL BE SHOWN ON PLANS.
3. CHANNELIZATION DETAILS & STEP PLACEMENT TYPICAL FOR BOTH STORM AND SANITARY SEWER MH'S.
4. THE MINUMUM VERTICAL DROP THRU MANHOLE BASE SHALL BE 0.10 FOOT.
5. FOR VERTICAL DROPS IN EXCESS OF 1.5 FEET AN OUTSIDE DROP MANHOLE IS REQUIRED.

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REVISED	
BY	DATE

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
TYPICAL MH BASE CHANNELIZATION

ISSUE DATE	DRAWN BY BV	SHEET NO. 1	DRAWING NO.
6/94	CHECKED BY LJ	OF 1 SHEETS	S-520

Print Date: 10/19/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311HYDR_PH2_DETAIL03.dgn		Date:	Comments	Init.	DOT DEPARTMENT OF TRANSPORTATION 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:1	Vert. Scale: As Noted				Region 6 RLB
Unit Information	Unit Leader Initials				
MULLER ENGINEERING CO, INC CONSULTING ENGINEERS P: 9904.12 /16311/HYDRAULICS/Drawings	777 S. Wadsworth Blvd. Suite 4-100 Lakewood, CO 80226 303-988-4939				

As Constructed	I-25/SANTA FE INTERCHANGE CITY AND COUNTY OF DENVER DETAILS SHEET 3 OF 8		Project No./Code
No Revisions:	Designer: JAY	Structure Numbers	BR 0252-407
Revised:	Detailer: KSP		17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 48 of 53	Sheet Number 544

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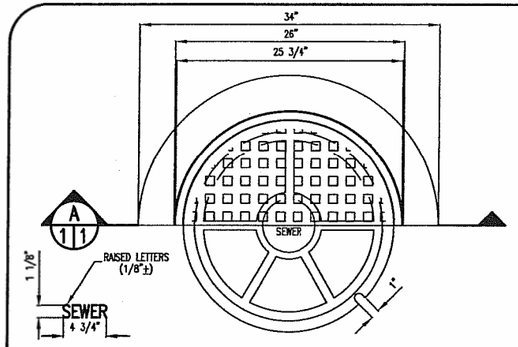
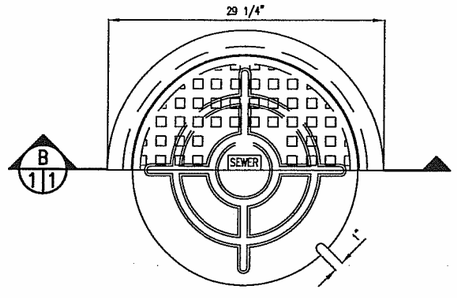


HALF PLAN



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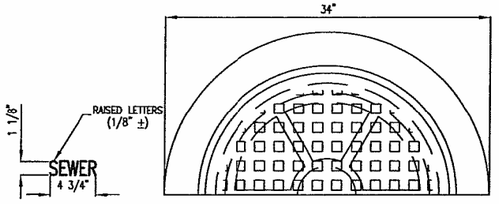
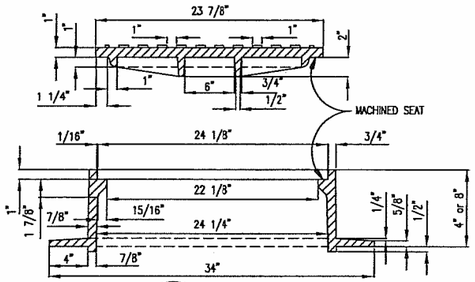


HALF PLAN

MINIMUM WEIGHT

4" RING	8" RING
RING=60#	RING=80#
COVER=60#	COVER=60#
TOTAL=120#	TOTAL=140#

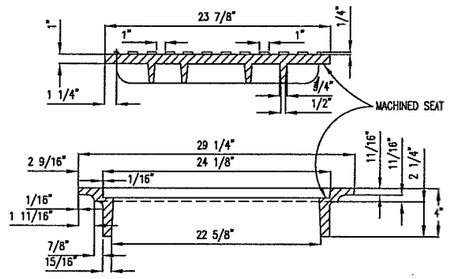


A 1 1 SECTION

MINIMUM WEIGHT

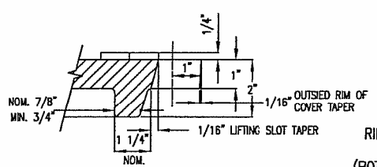
4" RING	8" RING
RING=165	RING=235
COVER=165	COVER=165
TOTAL=330#	400#

FIG. 1 CAST IRON 24" MANHOLE RING & COVER
DENVER STANDARD PATTERN

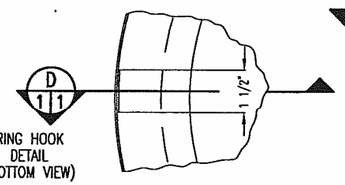


B 1 1 SECTION

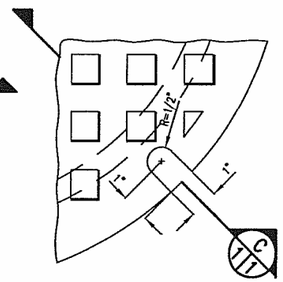
FIG. 2 CAST IRON 24" MANHOLE RING & COVER
SLAB CONSTRUCTION



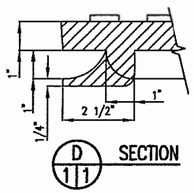
C 1 1 SECTION



RING HOOK DETAIL (BOTTOM VIEW)



STANDARD LIFTING SLOT DETAIL
(TYPICAL FOR ALL COVERS)



NOTES: CAST IRON
1. COVER SHALL BE THE DENVER STANDARD PATTERN OR ALTERNATE.
2. THE CASTING SHALL BE OF GRAY CAST IRON, ASTM DESIGNATION A48 CLASS 35B. THE MINIMUM TENSILE STRENGTH SHALL BE 35 KSI. THE TEST BAR DESIGNATION IS NOT DEFINED AT THIS TIME.
3. CASTINGS SHALL NOT BE DIPPED OR PAINTED.
4. CASTINGS SHALL BE CLEAN, TREE OF FUSED SAND AND REASONABLY SMOOTH. THERE SHALL BE NO PROMINENT BLOW HOLES, NO CRACKS OR FISSURES, AND NO OBSERVED INCOMPLETE FILLING OF THE MOLD.
5. THE MUD RING IS OPTIONAL.
6. THE 4 OR 5 INCH DEEP RING IS TO BE CONSIDERED AS STANDARD. THE 7 OR 8 INCH DEEP RING IS FOR USE IN DIRT OR LIGHT ASPHALT AND SHALL BE AT THE ENGINEER'S OPTION.
7. COVERS TO DISPLAY ON VISIBLE SURFACE, A48-35 (FOR 35KSI CI), MFG'S LOGO OR NAME, YEAR (2 DIGITS), AND COUNTRY OF ORIGIN IF IMPORTED.

1 REMOVE ALUMINUM COVER DETAILS

REVISED		
	BY	DATE
1	L.J.	1/02

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVSION

STANDARD DETAILS
FOR
24" DIA. RING AND COVER
DENVER STANDARD PATTERN

ISSUE DATE | DRAWN BY R.M.K. | CHECKED BY | SHEET NO. 1 OF 1 SHEETS | DRAWING NO. S-701

L:\DENVER\JAY\PH2\DETAIL 8/11/05

Print Date: 10/19/2010
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Horiz. Scale: 1:1 Vert. Scale: As Noted
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I-25/SANTA FE INTERCHANGE
CITY AND COUNTY OF DENVER
DETAILS SHEET 4 OF 8

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 49 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 545

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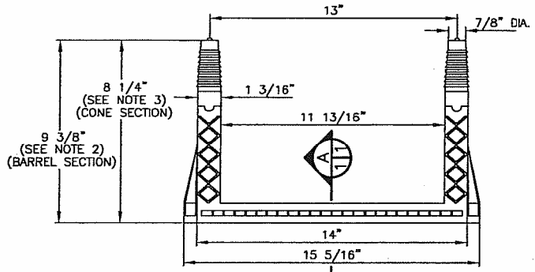

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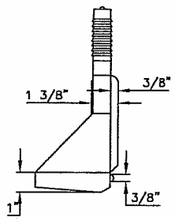

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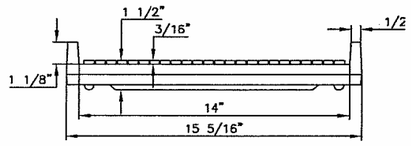

ELEVATION
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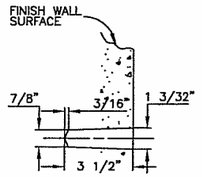
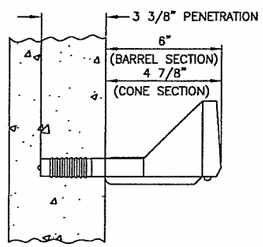


DETAIL PIN BLOCK OUT
NOT TO SCALE



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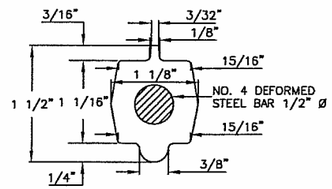

SECTION
NOT TO SCALE

POLYPROPYLENE REINFORCED PLASTIC STEP

C:\DRAWINGS\WADSWAN\STDS.DWG, 3/2/95

NOTES:

1. ASTM SPECIFICATIONS:
   A. ASTM C-478
   B. ASTM A-615 GRADE 60 (STEEL REBAR).
   C. ASTM 2146-69, TYPE III, GRADE 16905 (POLYPROPYLENE).
2. STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURES SHALL HAVE A 9 3/8 INCH LEG AND SHALL PROJECT FROM THE WALL 6 INCHES.
3. STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8 1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4 7/8 INCHES.
4. ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3 3/8 INCHES.
5. STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN, FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.
6. INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 LB. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
7. PINS MUST BE SMOOTH AND CONTINUOUSLY TAPERED. DIMENSIONS OF THE PIN AND THE INSERTED PORTION OF THE MANHOLE STEP ARE TYPICAL ONLY. W.M.D. INSTALLATIONS REQUIRE A MATCHED COMBINATION OF A TAPERED INSERT PIN AMD MANHOLE STEP, AS RECOMMENDED OR REQUIRED BY SPECIFIC MANUFACTURER OF THE STEP TO BE USED.
8. THIS STEP CAN ALSO BE USED IN TOE POCKET INSTALLATIONS PROVIDED 5" TOE CLEARANCE IS ALLOWED.

REVISED		
	BY	DATE

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
MANHOLE STEPS

ISSUE DATE	DRAWN BY E.M.K.	SHEET No. 1	DRAWING NO.
6/94	CHECKED BY L.J.	OF 1 SHEETS	S-750

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I-25/SANTA FE INTERCHANGE
CITY AND COUNTY OF DENVER
DETAILS SHEET 5 OF 8

Designer: JAY
Detailer: KSP
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 50 of 53

Project No./Code
BR 0252-407
17783
Sheet Number 546

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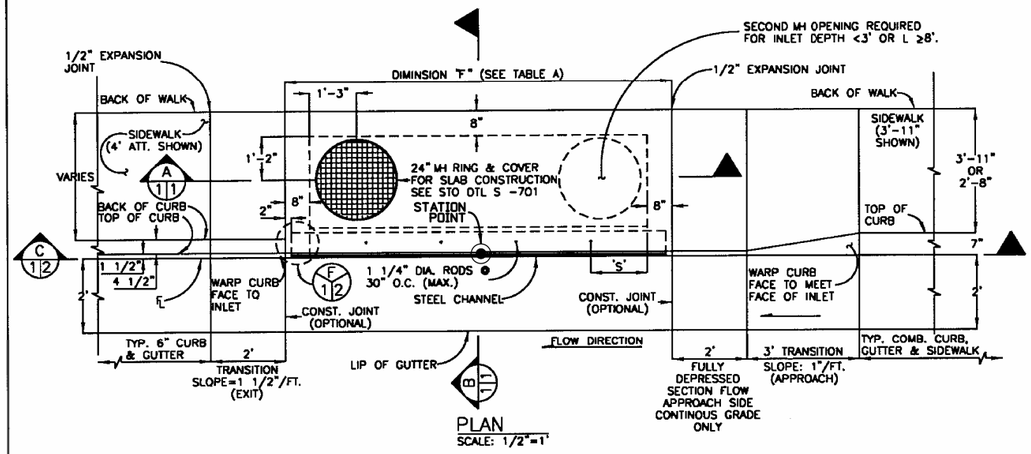

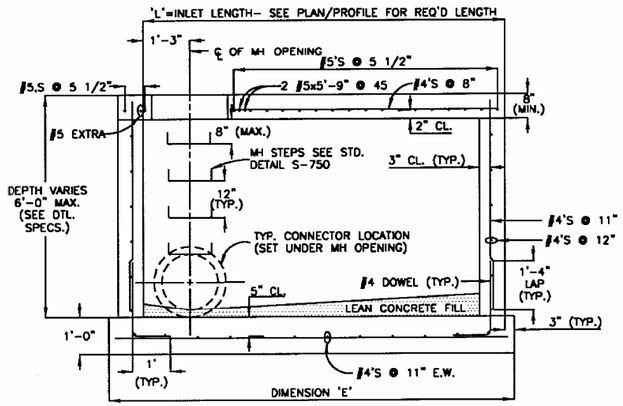

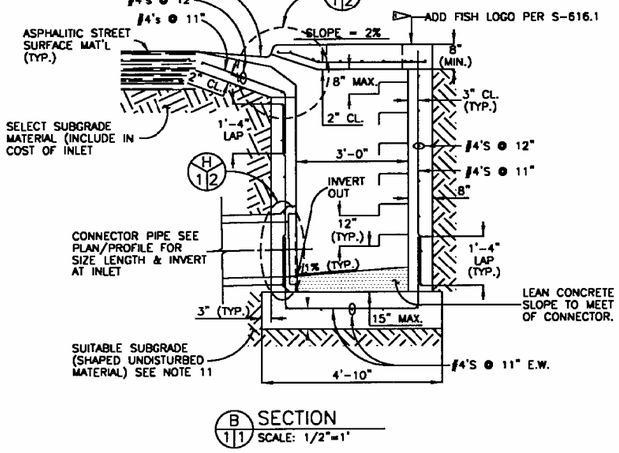

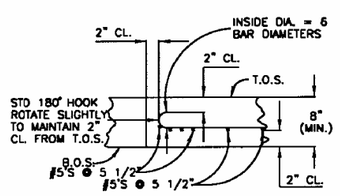

TABLE A

INLET LENGTH (L)	DIMENSION E	DIMENSION F	DIMENSION S	NO. OF RODS	MINIMUM* CONNECTOR SIZE (DIAMETER)
6'	7'-10"	7'-4"	2'-0"	2	15"
9'	10'-10"	10'-4"	1'-6"	4	18"
12'	13'-10"	13'-4"	2'-0"	5	21"
15'	16'-10"	16'-4"	1'-6"	7	21"

*INDICATES MINIMUM SIZE CONNECTOR PIPE. ACTUAL SIZE TO BE DETERMINED BY HYDRAULIC DESIGN CONDITIONS, SUBJECT TO APPROVAL OF THE DIVISION.

NOTES:

1. SEE DETAIL SPECIFICATIONS SECTION 11.04 STORM INLETS FOR MORE INFORMATION USE OF THIS DETAIL WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT.
2. ALSO SEE GENERAL NOTES ON S616.1.

REVISED	BY	DATE
▷	LL	4/98

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
NO. 14 INLETS

ISSUE DATE	DRAWN BY	SHEET NO.	DRAWING NO.
6/94	CHECKED BY LL	OF 2 SHEETS	S-620.1

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No Revisions:	Designer: JAY	Structure Numbers	BR 0252-407
Revised:	Detailer: KSP		17783
Void:	Sheet Subset: DRAINAGE	Subset Sheets: 51 of 53	Sheet Number 547

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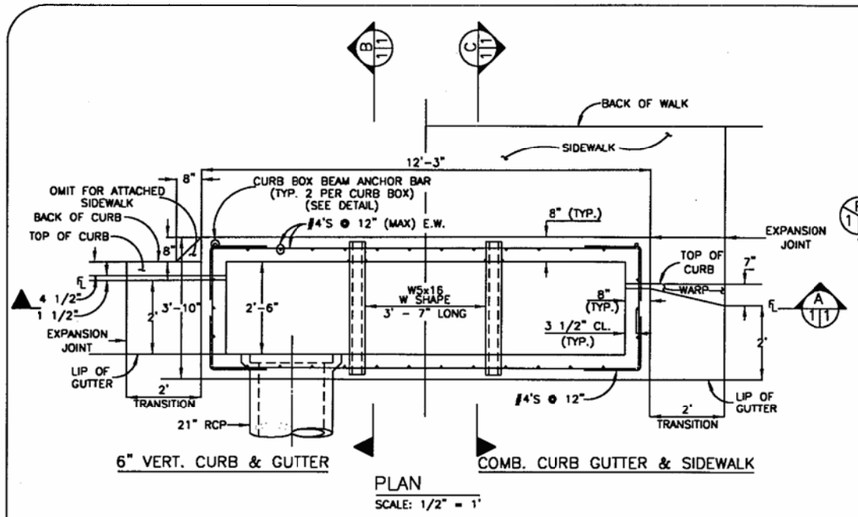
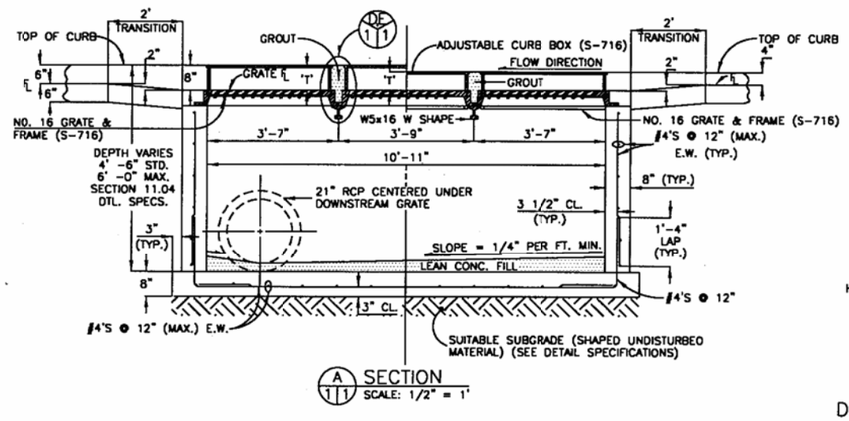
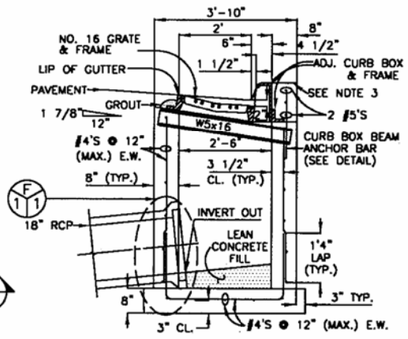
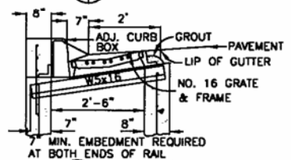
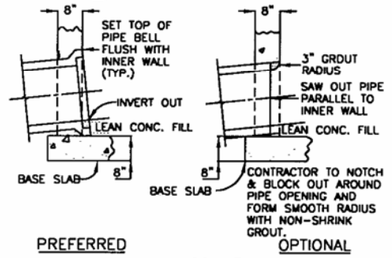


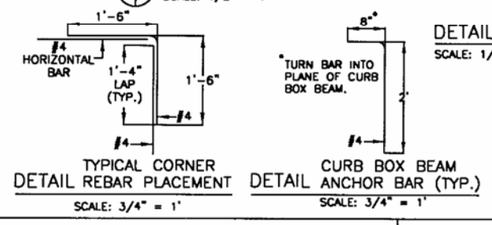
'T' = THROAT OPENING
'T' = 6" FOR VERTICAL CURB & GUTTER
'T' = 5" FOR COMBINATION CURB GUTTER & SIDEWALK
DROP FROM GUTTER ℄ ELEVATION TO GRATE ℄ ELEVATION (TRANSITION) IS 2".

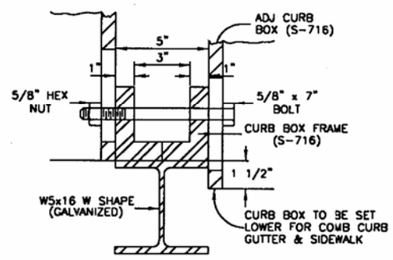


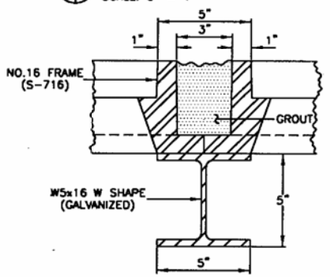


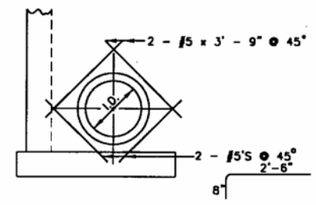












NOTES:

1. SEE DETAIL SPECIFICATIONS (DETAIL SPECIFICATIONS) SECTION 11.04 STORM INLETS FORM MORE INFORMATION. USE OF THIS DETAIL WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT.
2. ALSO SEE GENERAL NOTES ON S-616.1
3. TOP OF CURB (ADD FISH LOGO PER S-616.1), CENTER GRATE.

REVISED		
	BY	DATE
1	LL	4/99

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
TRIPLE NO. 16 INLETS O.T.
ADJUSTABLE CURB BOX

ISSUE DATE 5/94 | DESIGN BY LMK | CHECKED BY LL | SHEET NO. 1 OF 1 SHEETS | DRAWING NO. S-616.3

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CITY AND COUNTY OF DENVER
DETAILS SHEET 7 OF 8

Designer:		Structure Numbers	
Detailer:	KSP		
Sheet Subset:	DRAINAGE	Subset Sheets:	52 of 53

Project No./Code	
BR 0252-407	
17783	
Sheet Number	548

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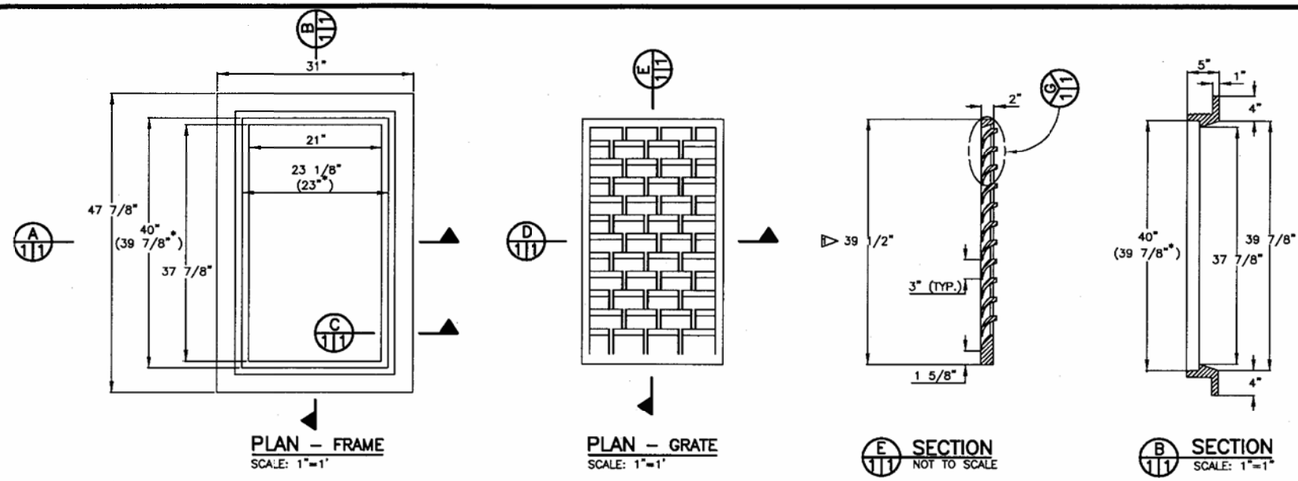
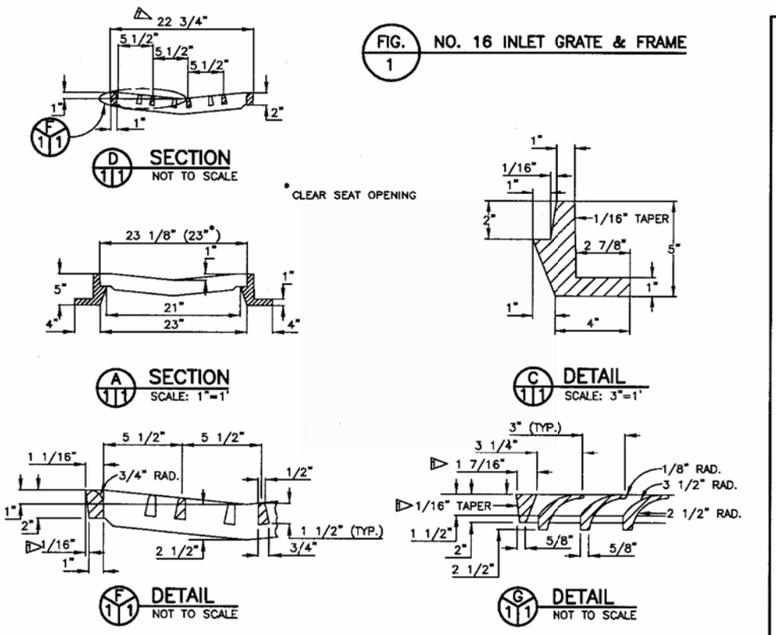


FIG. 1 NO. 16 INLET GRATE & FRAME



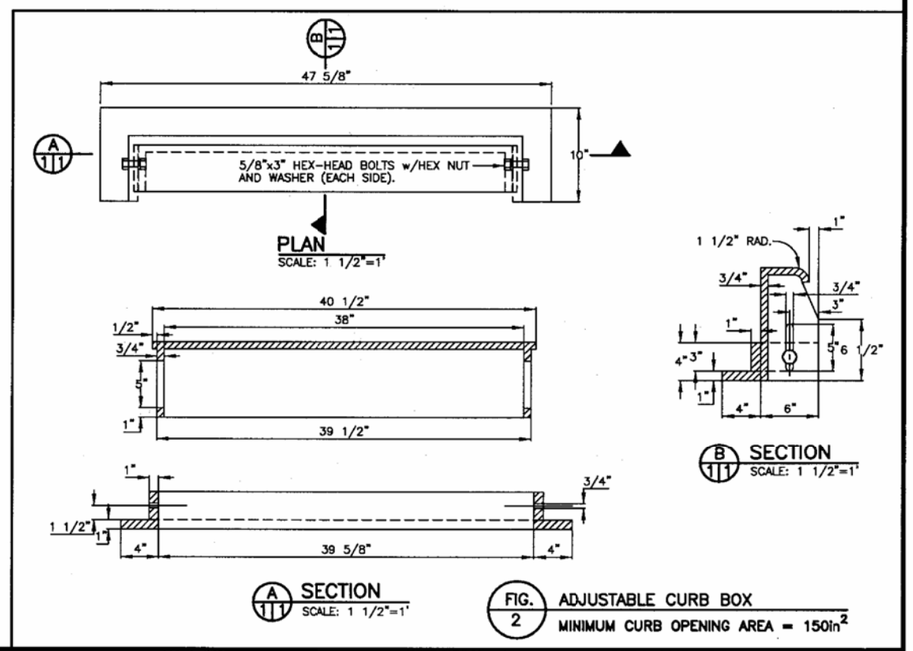


FIG. 2 ADJUSTABLE CURB BOX
MINIMUM CURB OPENING AREA = 150in²

GENERAL NOTES:
1. CAST IRON SHALL CONFORM TO ASTM A48. (CLASS 35B, MINIMUM)
2. CASTINGS SHALL COMPLY WITH FEDERAL SPECIFICATION RR-F-621D FOR CASTING PROOF LOADING (HEAVY DUTY).
3. ALL CASTINGS REQUIRE INDIVIDUAL APPROVAL/CERTIFICATION FROM THIS DIVISION.
4. SEE WMD DETAIL AND TECHNICAL SPECIFICATIONS, AND OTHER RELATED STANDARD DETAIL DRAWINGS.
5. CASTINGS SHALL NOT BE DIPPED OR PAINTED PRIOR TO FINAL INSPECTION, ONCE INDIVIDUAL CASTINGS ARE CHECKED, AND APPROVED BY THE DIVISION FOR PROJECT USAGE, THEY SHALL BE COATED WITH AN APPROVED MATERIAL.

REVISED		
	BY	DATE
1	L.J.	6/94

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION

STANDARD DETAILS
NO. 16 INLET – GRATE & FRAME
ADJUSTABLE CURB BOX

ISSUE DATE	DRAWN BY	CHECKED BY	SHEET NO.	OF SHEETS	DRAWING NO.
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10/19/2010 CDOT-PDFHighQuality_XM.pltcfg CDOT-PenTable-4.00.tbl

POTHOLE NUMBER	UTILITY OWNERSHIP	UTILITY USE	MATERIAL TYPE	DIAMETER	DEPTH TO TOP (INCHES)	DEPTH TO BOTTOM (INCHES)	NORTHING	EASTING	GROUND ELEVATION	FIELD COMMENTS
UT-1	DENVER WATER	WATER	---------	---------	---------	---------	---------	---------	---------	24" WATER NOT FOUND. FOUND POSSIBLE OLD GAS LINE 6", STEEL 49"+ 55"B
UT-2	CCD TRAFFIC	ITS	PVC	2"	21	23	681986.72	960385.09	5225.98	11' WEST OF KALAMATH
UT-3	CCD TRAFFIC	ITS	PVC	2"	17	19	682129.57	960249.06	5226.65	10' WEST OF KALAMATH
UT-4	QWEST	TELEPHONE	DUCT BANK	4"	51	54	682361.19	960169.90	5231.12	UNABLE TO POTHOLE, LOCATES NOT COMPLETE
UT-5	XCEL/QWEST	ELECTRIC/TELEPHONE	PVC	4"	33	37	682398.17	960151.41	5232.30	TWO LINES SIDE BY SIDE. POSSIBLE CONCRETE CAP UNDER POWER
UT-6	XCEL/QWEST	ELECTRIC/TELEPHONE	PVC	4"	36	40	682393.30	960153.02	5232.08	TWO LINES SIDE BY SIDE
UT-7	XCEL/QWEST	ELECTRIC/TELEPHONE	PVC	4"	40	44	682417.79	960142.82	5233.18	TWO LINES SIDE BY SIDE
UT-8	UNKNOWN	TELEPHONE	---------	---------	---------	---------	---------	---------	---------	NO POTHOLE INFORMATION PROVIDED
UT-9	UNKNOWN	TELEPHONE	---------	---------	---------	---------	---------	---------	---------	NO POTHOLE INFORMATION PROVIDED
UT-10	UNKNOWN	TELEPHONE	---------	---------	---------	---------	---------	---------	---------	NO POTHOLE INFORMATION PROVIDED
UT-11	XCEL	GAS	STEEL PIPE	4"	48	52	683525.72	959749.82	5236.49	
UT-12	DENVER WATER	WATER	COPPER	1"	47"	48"	6834466.83	959772.60	5236.65	
UT-13	DENVER WATER	WATER	COPPER	1"	45"	46"	683403.53	959798.87	5237.08	
UT-14	DENVER WATER	WATER	STEEL PIPE	8"	62"	70"	683332.95	959828.22	5237.71	
UT-15	DENVER WATER	WATER	COPPER	1"	32"	33"	683312.40	959838.03	5237.64	LOCATE OFF BY 1'6"
UT-16	DENVER WATER	WATER	COPPER	1"	43"	45"	683212.99	959876.52	5238.58	
UT-17	UNKNOWN	TELEPHONE	---------	---------	---------	---------	---------	---------	---------	NO LOCATES PROVIDED
UT-18	XCEL	ELECTRIC	STEEL PIPE	2"	7	9	682234.30	959879.76	5229.61	1' SOUTH OF SIDEWALK, 5' NORTH OF STREET LIGHT CABINET
UT-19	QWEST	FIBER OPTIC	DUCT BANK		35	51	682299.67	959846.79	5229.74	
UT-20	UNKNOWN	TELEPHONE	POLY	2-2"	83	87	682334.75	959832.29		
UT-21	XCEL	ELECTRIC	CABLE	1"	32	33	682374.00	959820.37	5228.87	5' NORTH OF ST-LIGHT CABINET
UT-22	XCEL	ELECTRIC	---------	---------	---------	---------	---------	---------	---------	LOCATION POTHOLED, NO UTILITIES FOUND
UT-23	DENVER WATER	WATER	STEEL PIPE	24"	96	120	682272.21	960286.15	5229.03	FOUND POSSIBLE OLD GAS LINE 6", STEEL 43"+ 49"B
UT-24	QWEST	FIBER OPTIC	D.I.P	16"	31	47	682303.81	960357.27	5228.60	
UT-25	DENVER WATER	WATER	STEEL PIPE	16"	69	85	682321.34	960218.45	5230.10	LOCATE OFF POT HOLE MOVED 2' EAST,
UT-26	DENVER WATER	GAS	STEEL PIPE	2"	30	32	682203.81	959596.58	5227.86	
UT-27	DENVER WATER	WATER	STEEL PIPE	16"	65	81	682525.38	960136.98	5236.49	FOUND POSSIBLE OLD GAS LINE 2", STEEL 43"+ 45"B
UT-28	CDOT	STORMSEWER	---------	---------	---------	---------	---------	---------	---------	NO POTHOLE INFORMATION PROVIDED
UT-29	CDOT	STORMSEWER	---------	---------	---------	---------	---------	---------	---------	NO POTHOLE INFORMATION PROVIDED
UT-30	DENVER WATER	WATER	STEEL PIPE	16"	63	79	683362.23	959799.14	5237.27	
UT-51	DENVER WATER	WATER	CAST IRON	12"	61	73	678991.72	961520.16	5235.68	WATER VALVE 6 FOOT FROM POTHOLE
UT-52	DENVER WATER	WATER	CAST IRON	12"	69	81	679210.86	961363.66	5235.74	
UT-53	DENVER WATER	WATER	CAST IRON	12"	65	69	679329.73	961288.94	5235.09	8" TO WEST
UT-54	DENVER WATER	WATER	CAST IRON	12"	57	69	679432.15	961228.88	5234.11	1' EAST
UT-55	QWEST	TELEPHONE		-	-	-	679576.66	961199.78	5232.82	NO LOCATE, NOT FOUND, CLEARED BY OWNER
UT-56	QWEST	TELEPHONE		-	-	-	679625.44	961064.17	5234.64	NO LOCATE, CLEARED BY OWNER, NOT POTHOLED
UT-57	QWEST	TELEPHONE		-	-	-	679678.1	960917.8	5230.64	NOT POTHOLED, MARKED BY LOCATOR'S AS "ALL CLEAR"
UT-58	UNKNOWN	FIBER OPTIC		-	-	-	679689.49	960934.68	5233.18	NOT POTHOLED, MARKED BY LOCATOR'S AS "ALL CLEAR"
UT-59	UNKNOWN	FIBER OPTIC		-	-	-	679690.67	961022.92	5234.87	NOT POTHOLED, MARKED BY LOCATOR'S AS "ALL CLEAR"
UT-60	UNKNOWN	FIBER OPTIC		-	-	-	679688.74	961122.84	5232.84	NOT POTHOLED, MARKED BY LOCATOR'S AS "ALL CLEAR"
UT-61	DENVER WATER	WATER	CAST IRON	12"	53		679004.08	961982.85	5241.01	WATER VALVE 14'-4" WEST, MH 15'-0" EAST
UT-62	DENVER WATER	WATER	CAST IRON	12"	87	99	680611.29	961021.18	5232.91	
UT-63	CDOT	ITS	PVC	-	-	-	679814.96	961404.78	5242.6	NOTHING FOUND - POTHOLE IN LOCATION FOR 3.5 HOURS
UT-64	CDOT	ITS	PVC	4"	59	63	679990.83	961334.20	5233.59	
UT-65	CDOT	ITS	PVC	4"	57	62	680199.52	961187.87	5234.00	MOVED 3'-2" NW TO AVOID TRAFFIC
UT-66	DENVER WATER	WATER	CAST IRON	12"	76	88	680407.91	961049.56	5236.13	
UT-67	CDOT	ITS	PVC	3"	18	53	680404.44	961041.19	5236.56	36" CONCRETE ENCASEMENT
UT-68	DENVER WATER	WATER	CAST IRON	-	-	-	680397.03	961022.00	5237.18	NOTHING FOUND - POTHOLE IN LOCATION FOR 3.5 HOURS
UT-69	CDOT	ITS	PVC	4"	33	-	681454.11	960745.91	5226.76	
UT-70	CCD TRAFFIC	FIBER OPTIC	PVC	4"	21	-	681454.20	960740.20	5226.51	

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Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-03-11	REISSUED SHEET	DAD

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - POTHOLE LOG

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 1 of 1

Project No./Code
BR 0252-407
17783
Sheet Number 550 B

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12/14/2010 CDOT-PDFDraftQuality_XM.pltcfg CDOT-PenTable.tbl

MANHOLE NUMBER	SURVEY MANHOLE NUMBER	UTILITY OWNERSHIP	UTILITY USE	RIM ELEVATION	INVERT IN	INVERT IN	INVERT IN	INVERT OUT	INVERT OUT	NORTHING	EASTING	ADJ./ MOD MANHOLE RIM ELEV.	HCL	STATION	OFFSET	COMMENTS
MH+001	NA	MWW	SANITARY	NA	NA					678266.53	963517.55		ULTIMATE I-25	NA	NA	NO SURVEY DATA PROVIDED
MH+002	NA	MWW	SANITARY	NA	NA					678393.72	963500.17		ULTIMATE I-25	NA	NA	NO SURVEY DATA PROVIDED
MH+003	NA	MWW	SANITARY	NA	NA					678717.25	963494.32		ULTIMATE I-25	NA	NA	NO SURVEY DATA PROVIDED
MH+004	NA	MWW	SANITARY	NA	NA					678724.35	963501.14		ULTIMATE I-25	NA	NA	NO SURVEY DATA PROVIDED
MH+005	NA	MWW	SANITARY	NA	NA					678939.40	963032.28		ULTIMATE I-25	603+97.42	36.78 LT	NO SURVEY DATA PROVIDED
MH+006	NA	MWW	SANITARY	NA	NA					678940.73	963083.77	60	ULTIMATE I-25	603+61.67	0.30 RT	NO SURVEY DATA PROVIDED
MH+007	NA	MWW	SANITARY	NA	NA					679082.32	963043.33		ULTIMATE I-25	604+89.86	72.78 RT	NO SURVEY DATA PROVIDED
MH+008	NA	MWW	SANITARY	NA	NA					679133.44	962783.64		ULTIMATE I-25	607+19.36	58.36 LT	NO SURVEY DATA PROVIDED
MH+009	NA	MWW	SANITARY	NA	NA					679155.67	962800.39		ULTIMATE I-25	607+19.23	30.52 LT	NO SURVEY DATA PROVIDED
MH+010	NA	MWW	SANITARY	NA	NA					679313.86	962580.86		ULTIMATE I-25	609+93.13	12.43 LT	NO SURVEY DATA PROVIDED
MH+011	29629	MWW	SANITARY	5243.27	5225.92				5225.92	679408.84	961983.93		ULTIMATE I-25	615+85.94	147.61 LT	30"
MH+012	2345	MWW	SANITARY	5246.97	5226.59				5226.58	679449.61	962010.00		ULTIMATE I-25	615+76.30	100.21 LT	30"
MH+013	35573	MWW	SANITARY	5247.83	5225.31				5225.79	679421.60	962147.63		ULTIMATE I-25	614+37.87	76.92 LT	30"
MH+014	33572	MWW	SANITARY	5248.91	5225.60				5230.58	679457.69	962183.27		ULTIMATE I-25	614+17.39	30.39 LT	30"
MH+015	33571	MWW	SANITARY	5249.15	5225.62				5225.62	679471.43	962184.05		ULTIMATE I-25	614+21.71	17.25 LT	30"
MH+016	33570	MWW	SANITARY	5249.61	5225.08				5225.06	679644.32	962160.93		ULTIMATE I-25	615+05.44	135.77 RT	30"
MH+017	41968	DWWM	SANITARY	5251.43						679742.55	961172.01		ULTIMATE I-25	624+19.14	193.60 LT	46" BRICK, APPROX LOC
MH+018	24241	DWWM	SANITARY	5246.71					5235.39	679768.43	961821.24		ULTIMATE I-25	618+67.04	129.43 RT	8" FROM NORTH
MH+019	24253	DWWM	SANITARY	5243.03	5234.15				5234.13	679767.74	961768.68		ULTIMATE I-25	619+15.84	109.89 RT	8"
MH+020	24247	DWWM	SANITARY	5241.84	5232.79				5232.80	679792.83	961618.64		ULTIMATE I-25	620+69.63	76.12 RT	8"
MH+021	24250	DWWM	SANITARY	5235.43	5230.60				5230.60	679947.87	961391.60		ULTIMATE I-25	623+58.13	100.47 RT	8"
MH+022	24253	DMWW	SANITARY	5233.69	5227.48				5227.41	680208.66	961222.01		ULTIMATE I-25	626+81.73	196.08 RT	8"
MH+023	17354	MWW	SANITARY	5234.94	5227.21				5227.15	680233.61	961168.64		ULTIMATE I-25	627+43.45	175.63 RT	10"
MH+024	17043	MWW	SANITARY	5235.34						680289.50	961196.35		ULTIMATE I-25	627+68.01	234.11 RT	NO PIPES 5' DEEP
MH+025	17042	MWW/DWD	SANITARY	5235.83	5226.53	5235.94			5225.33	680328.69	961168.25		ULTIMATE I-25	628+23.33	239.41 RT	36" SANITARY SEWER IN FROM SE & NE 42" OUT TO N- 10' DEEP
MH+026	17354	DWWM	SANITARY	5237.09	5224.62	5227.86	5231.60		5224.54	680360.79	961166.13		ULTIMATE I-25	628+53.28	258.68 RT	6" SANITARY SEWER APPROXIMATE LOCATION
MH+027	2376	MWW	SANITARY	5232.56	5223.65				5223.48	680714.34	961052.27		ULTIMATE I-25	632+87.95	356.99 RT	36"
MH+028	8486	MWW	SANITARY	5236.05	5224.12				5224.05	680848.03	961052.62		ULTIMATE I-25	634+44.19	410.77 RT	36"
MH+029	8556	MWW	SANITARY	5238.50	5223.38				5222.26	680947.77	961160.46		ULTIMATE I-25	635+11.94	546.25 RT	46" BRICK PIPE 2 FT. DIA.
MH+030	8555	DWWM	SANITARY	5244.84						680966.90	961225.69		ULTIMATE I-25	635+08.05	614.12 RT	2FT DIA
MH+031	2096	MWW	SANITARY	5230.22	5222.82				5222.82	681228.82	960949.17		ULTIMATE I-25	638+47.63	441.63 RT	42" FROM SOUTHEAST 46" BRICK TO NORTHWEST - 7.4 DEEP
MH+032	20483	MWW	SANITARY	5228.49	5221.75				5221.73	681789.43	960736.21		ULTIMATE I-25	644+35.90	431.83 RT	46" BRICK
MH+033																REMOVED IN PHASE 1
MH+034																REMOVED IN PHASE 1
MH+035																REMOVED IN PHASE 1
MH+036																REMOVED IN PHASE 1
MH+037																REMOVED IN PHASE 1
MH+038	22068	MWW	SANITARY	5226.43						681701.44	959809.58		ULTIMATE I-25	647+06.09	459.24 LT	NO INVERT DATA
MH+039																REMOVED IN PHASE 1
MH+040	20550	MWW	SANITARY	5227.96 (VAULT)	5227.86 (GRATE LID)	5210.19				681911.84	959984.50		ULTIMATE I-25	648+33.74	213.99 LT	WITHIN VAULT
MH+041	20552	MWW	SANITARY	5227.80					5210.15	681908.75	959981.88		ULTIMATE I-25	648+31.96	217.66 LT	SIPHON BEGINS 24" RCP
MH+042	20551	MWW	SANITARY	5227.98					5210.28	681913.12	959980.88		ULTIMATE I-25	648+36.49	216.75 LT	SIPHON BEGINS 24" RCP
MH+043	22070	MWW	SANITARY	5226.39	5210.17					681854.66	959772.14		ULTIMATE I-25	648+72.08	430.86 LT	VAULT 24" E
MH+044	22071	MWW	SANITARY	5226.36	5209.6 E				5209.79 N	681858.70	959770.69		ULTIMATE I-25	648+76.64	430.48 LT	VAULT 5226.37
MH+045	22069	MWW	SANITARY	5226.53						681851.19	959758.39		ULTIMATE I-25	648+74.81	444.67 LT	NO INVERT DATA
MH+046																REMOVED IN PHASE 1
MH+047	20520	DWWM	SANITARY	5227.11	5218.08				5218.01	682188.00	960317.20		ULTIMATE I-25	649+45.46	203.95 RT	8"
MH+048	21474	MWW	SANITARY	5227.18	5209.39				5209.39	682114.20	959676.39		ULTIMATE I-25	651+49.23	408.06 LT	
MH+049	21475	MWW	SANITARY	5227.32	5211.32				5204.34 (CALC)	682104.95	959651.70		ULTIMATE I-25	651+51.26	434.35 LT	
MH+050	20228	MWW	SANITARY	5228.56					5201.06	682216.40	959612.90		ULTIMATE I-25	652+68.67	422.45 LT	NO INVERT IN DATA

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10/18/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

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Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
MANHOLE LOG

Designer: M. HARTWIG
Detailer: E. LANG
Sheet Subset: UTILITIES
Structure Numbers
Subset Sheets: 1 of 2

Project No./Code
BR 0252-407
17783
Sheet Number 551

MANHOLE NUMBER	SURVEY MANHOLE NUMBER	UTILITY OWNERSHIP	UTILITY USE	RIM ELEVATION	INVERT IN	INVERT IN	INVERT IN	INVERT OUT	INVERT OUT	NORTHING	EASTING	ADJ./ MOD MANHOLE RIM ELEV.	HCL	STATION	OFFSET	COMMENTS
MH+051	40917	MWW	SANITARY	5222.55	5210.71				5210.71	681909.03	959331.43		ULTIMATE I-25	651+08.94	807.40 LT	LESS THAN 30" PIPE
MH+052	40920	MWW	SANITARY	5223.09					5210.12	682101.36	959343.33		ULTIMATE I-25	652+78.25	715.38 LT	LARGER THAN 10" PIPE IN FROM SOUTH
MH+053	40923	MWW	SANITARY	5223.44	5209.41				5209.42	682231.27	959342.81		ULTIMATE I-25	653+96.22	660.99 LT	LARGER THAN 10" PIPE
MH+054	40926	MWW	SANITARY	5223.14	5207.76	5207.81 S			5207.65	682251.60	959331.10		ULTIMATE I-25	654+19.59	663.01 LT	46" BRICK SURVEYED 30" PLAN
MH+055	20230	MWW	SANITARY	5228.56	5208.57 (CALC)				5208.66	682243.43	959615.16		ULTIMATE I-25	652+92.21	408.99 LT	TOTAL DEPTH NOT MEASURED DUE TO LANDING PLATFORM ABOVE FLOW LINE
MH+056	20229	MWW	SANITARY	5228.66	5208.89 (LANDING)	5208.57 (CALC)				682242.62	959625.61		ULTIMATE I-25	652+87.07	399.86 LT	TOTAL DEPTH NOT MEASURED DUE TO LANDING PLATFORM ABOVE FLOW LINE
MH+057	20231	MWW	SANITARY	5228.76	5208.89 (LANDING)	5208.57 (CALC)				682246.24	959632.29		ULTIMATE I-25	652+87.53	392.27 LT	TOTAL DEPTH NOT MEASURED DUE TO LANDING PLATFORM ABOVE FLOW LINE
MH+058	NA	DWWM	SANITARY	5228.73	5221.82				5220.59	682245.20	960201.36	5229.93	ULTIMATE I-25	650+46.23	123.11RT	FIELD VERIFIED WITH SURVEY
MH+059	20318	DWWM	SANITARY	5223.21						682302.19	959307.58		ULTIMATE I-25	654+75.39	662.96 RT	
MH+060	40854	DWWM	SANITARY	5229.90	5223.71				5223.39	682370.34	960118.67		ULTIMATE I-25	651+94.59	101.01 RT	8"
MH+061	42593	DWWM	SANITARY	5220.00						682408.00	960075.00		ULTIMATE I-25	652+47.17	77.33 RT	8" APPROXIMATE LOCATION
MH+062	20602	DWWM	SANITARY	5232.53	5223.57 W	5223.01 E			5223.00	682398.14	960207.34		ULTIMATE I-25	651+82.34	193.13 RT	8", PROBABLE GROUNDWATER DRAIN FOR UPSTREAM AREA OF SANITARY SEWER
MH+063	26309	MWW	SANITARY	5243.31	5224.72	5223.99			5223.95	682462.06	960387.69		ULTIMATE I-25	651+64.10	383.60 RT	8" APPROXIMATE LOCATION
MH+064	26304	DWWM	SANITARY	5235.83	5226.31	5225.28			5225.25	682507.42	960517.75		ULTIMATE I-25	651+50.29	520.65 RT	8" APPROXIMATE LOCATION
MH+065	20536	DWWM	SANITARY	5229.96	5224.95				5225.01	682734.03	959928.50		ULTIMATE I-25	656+04.46	82.21 RT	8"
MH+066	40855	MWW	SANITARY	5222.97	5196.47					682850.28	959390.49		ULTIMATE I-25	659+40.02	354.92 LT	
MH+067	28908	DWWM	SANITARY	5230.61	5226.76				5226.80	683109.79	959731.07		ULTIMATE I-25	660+27.92	64.20 RT	8"
MH+068	35118	DWWM	SANITARY	5232.77	5227.67				5227.68	683323.70	959645.00		ULTIMATE I-25	662+57.62	79.44 RT	8"
MH+069	24031	MWW	SANITARY	5240.82					5230.55	683368.94	959978.00		ULTIMATE I-25	661+54.04	398.95 RT	TRUNK FROM ALLEY 10.4' DEEP-LOCAL FROM EAST APPROX 9.4' DEEP
MH+070	21337	DWWM	SANITARY	5222.20						683464.44	959179.77		ULTIMATE I-25	665+88.54	276.74 LT	
MH+071	35125	DWWM	SANITARY	5232.45	5228.20				5228.11	683507.95	959570.02		ULTIMATE I-25	664+55.70	92.76 RT	8"
MH+072	27538	DWWM	SANITARY	5231.62	5228.34				5228.17	683552.82	959553.27		ULTIMATE I-25	665+03.32	97.49 RT	8"
MH+073	23010	DWWM	SANITARY	5237.07	5228.54				5228.54	683569.51	959728.09		ULTIMATE I-25	664+41.49	261.80 RT	8" VIT CLAY TILE
MH+074	21336	DWWM	SANITARY	5223.47						683614.53	959090.77		ULTIMATE I-25	667+62.49	290.51 LT	
MH+075	21335	DWWM	SANITARY	5223.07						683599.95	959053.98		ULTIMATE I-25	667+65.61	329.96 LT	
MH+076	NA	MWW	SANITARY							683631.96	959009.12		ULTIMATE I-25	668+21.64	355.8 LT	
MH+077	22711	DWWM	SANITARY	5237.24					5228.21	683699.92	959714.11		ULTIMATE I-25	665+64.51	306.69 RT	8"
MH+078	NA	DWWM	SANITARY							683720.97	959710.01		ULTIMATE I-25	665+85.22	312.28 RT	NO SURVEY DATA PROVIDED
MH+079	NA	DWWM	SANITARY							683995.03	959314.74		ULTIMATE I-25	669+95.17	91.25 RT	NO SURVEY DATA PROVIDED
MH+080	NA	DWWM	SANITARY							684250.80	959312.66		ULTIMATE I-25	671+86.08	239.81 RT	NO SURVEY DATA PROVIDED
MH+081	NA	DWWM	SANITARY							684250.80	959199.73		ULTIMATE I-25	672+51.52	153.28 RT	NO SURVEY DATA PROVIDED
MH+082	NA	DWWM	SANITARY							684399.57	959026.26		ULTIMATE I-25	674+62.51	133.39 RT	NO SURVEY DATA PROVIDED
MH+083	NA	DWWM	SANITARY							684524.22	958891.97		ULTIMATE I-25	676+42.14	139.49 RT	NO SURVEY DATA PROVIDED

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_Manhole_Log02.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions

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Colorado Department of Transportation
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Region 6 RLB

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I-25/SANTA FE INTERCHANGE
MANHOLE LOG

Designer: M. HARTWIG
Detailer: E. LANG
Sheet Subset: UTILITIES
Structure Numbers
Subset Sheets: 2 of 2

Project No./Code
BR 0252-407
17783
Sheet Number 552

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10/18/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

TABULATION OF STAGE 1.2/1.3 UTILITY ADJUSTMENTS

STATION-OFFSET	ALIGNMENT NAME	ADJUST MANHOLE	OWNER	REMARKS
		EACH		
626+81.73, 196.08' RT.	HCL ULTIMATE I-25	1	DWWM	SANITARY SEWER MANHOLE
627+43.45, 175.63' RT.	HCL ULTIMATE I-25	1	DWWM	SANITARY SEWER MANHOLE
645+03.24. 300.09' RT.	HCL ULTIMATE I-25	1	DWWM	SANITARY SEWER MANHOLE
645+43.69, 120.73' RT.	HCL ULTIMATE I-25	1	DWWM	SANITARY SEWER MANHOLE
TOTALS:		4		

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_Utility_Tab01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY
QUANTITY TABULATION

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 1 of 1

Project No./Code
BR 0252-407
17783
Sheet Number 553

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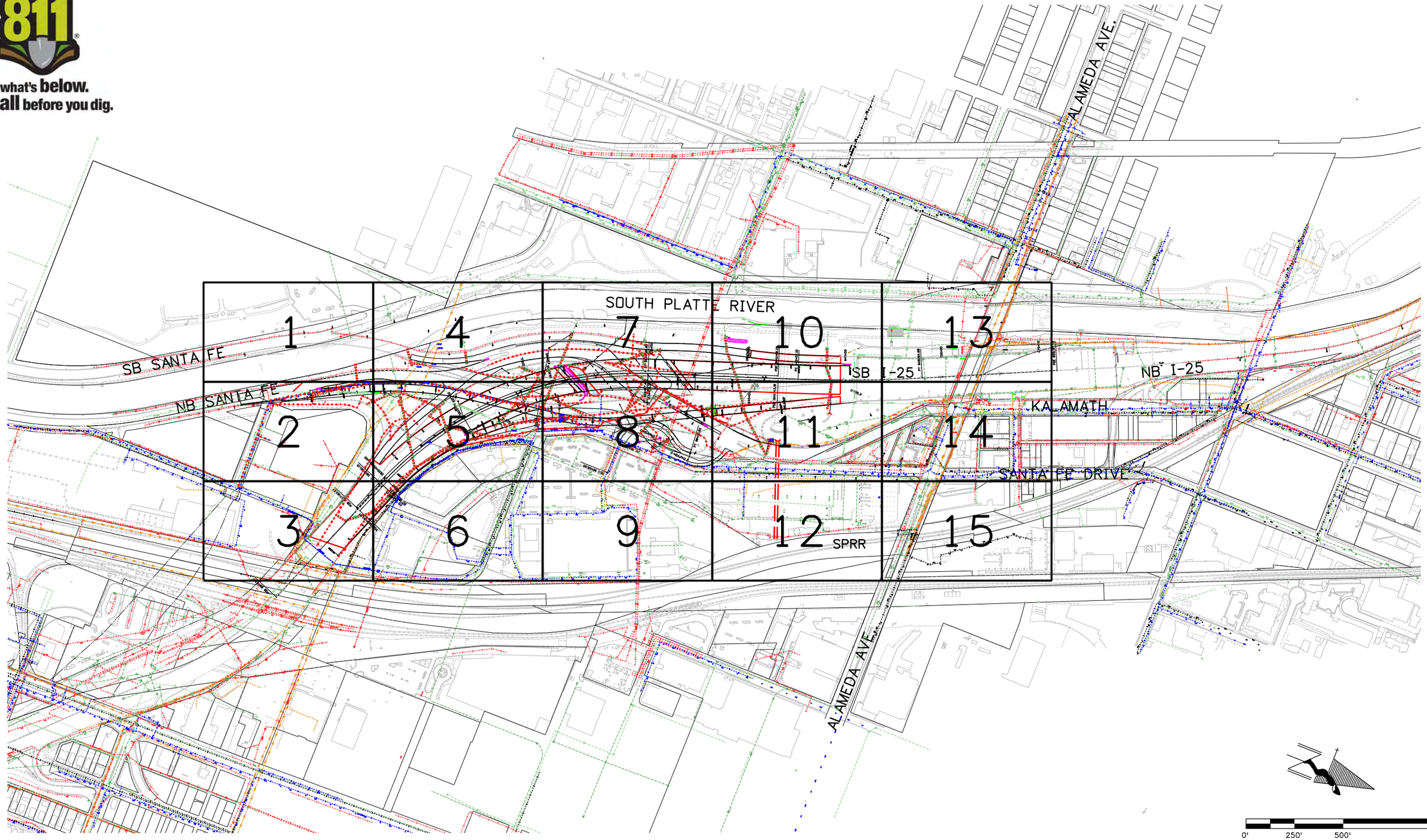

Print Date: 10/18/2010 File Name: 16311HA UTIL_PH2_I25_KeyMap_01.dgn Horiz. Scale: 1:500 Vert. Scale: As Noted Unit Information Unit Leader Initials FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111		Sheet Revisions Date: / Comments / Init.	Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE STAGE 1.2/1.3 - UTILITY KEYMAP Designer: M. HARTWIG Detailer: D. DYER Sheet Subset: UTILITY	Structure Numbers Subset Sheets: 1 of 1	Project No./Code BR 0252-407 17783 Sheet Number 554

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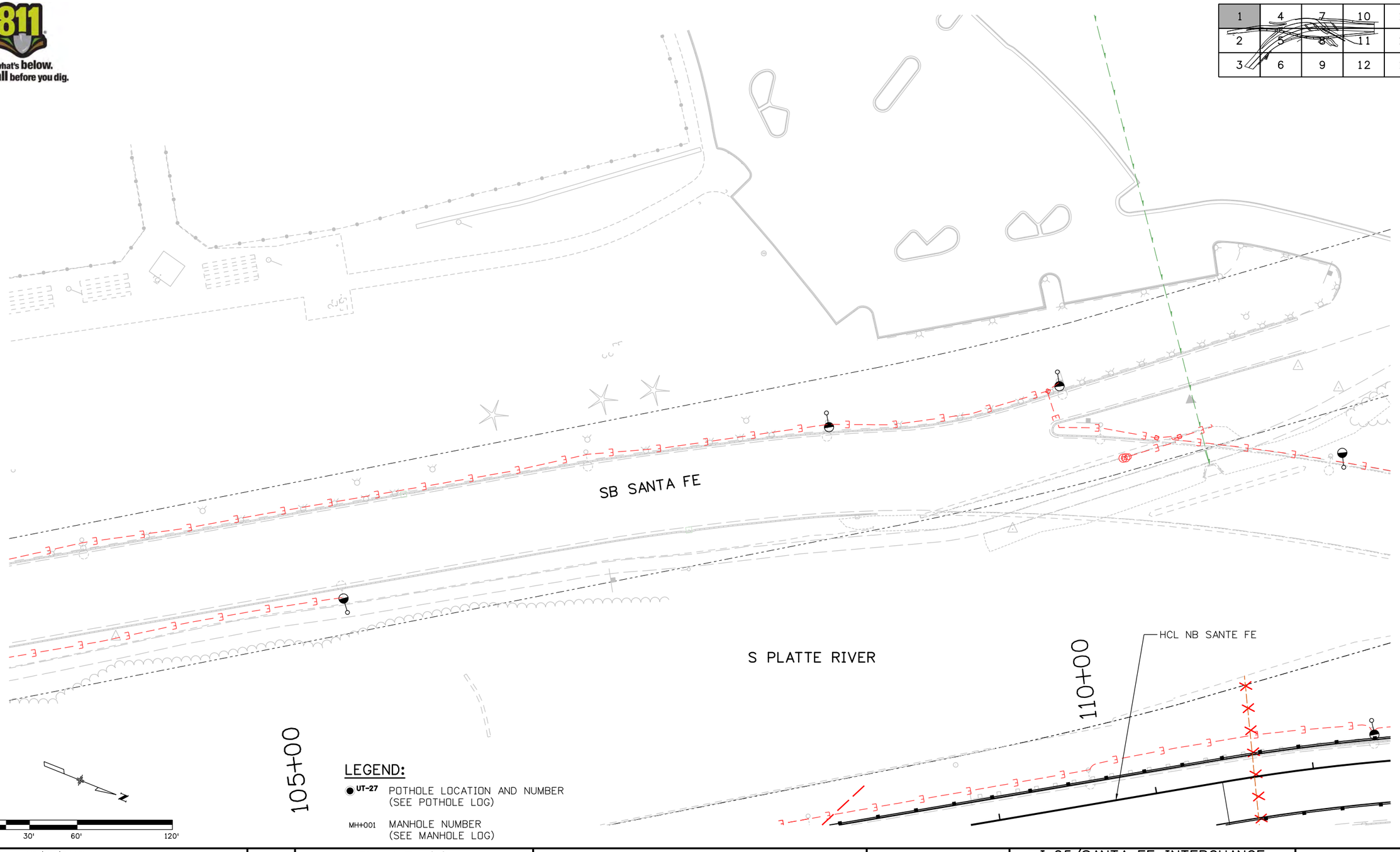
811 Know what's **below.** **Call** before you dig.

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15



LEGEND:

- UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH+001 — MANHOLE NUMBER (SEE MANHOLE LOG)

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_I25_Plan01.dgn
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Unit Information Unit Leader Initials

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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 1 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 555

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1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

LEGEND:

- ● UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

NB SANTA FE

HCL NB SANTA FE

HCL RAMP 1

RAMP 1

OHID AVE.

7150 ft

UT-51

UT-52

UT-53

WATERLINE TO BE ABANDONED BY DWD

WATERLINE TO BE ABANDONED BY DWD

WATERLINE TO BE ABANDONED BY DWD

WATERLINE TO BE ABANDONED BY DWD

EXISTING CDOT ITS BACKBONE AND CONDUIT TO REMAIN INTACT.

HCL RAMP 3

SB I-25

0' 30' 60' 120'

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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 2 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 556

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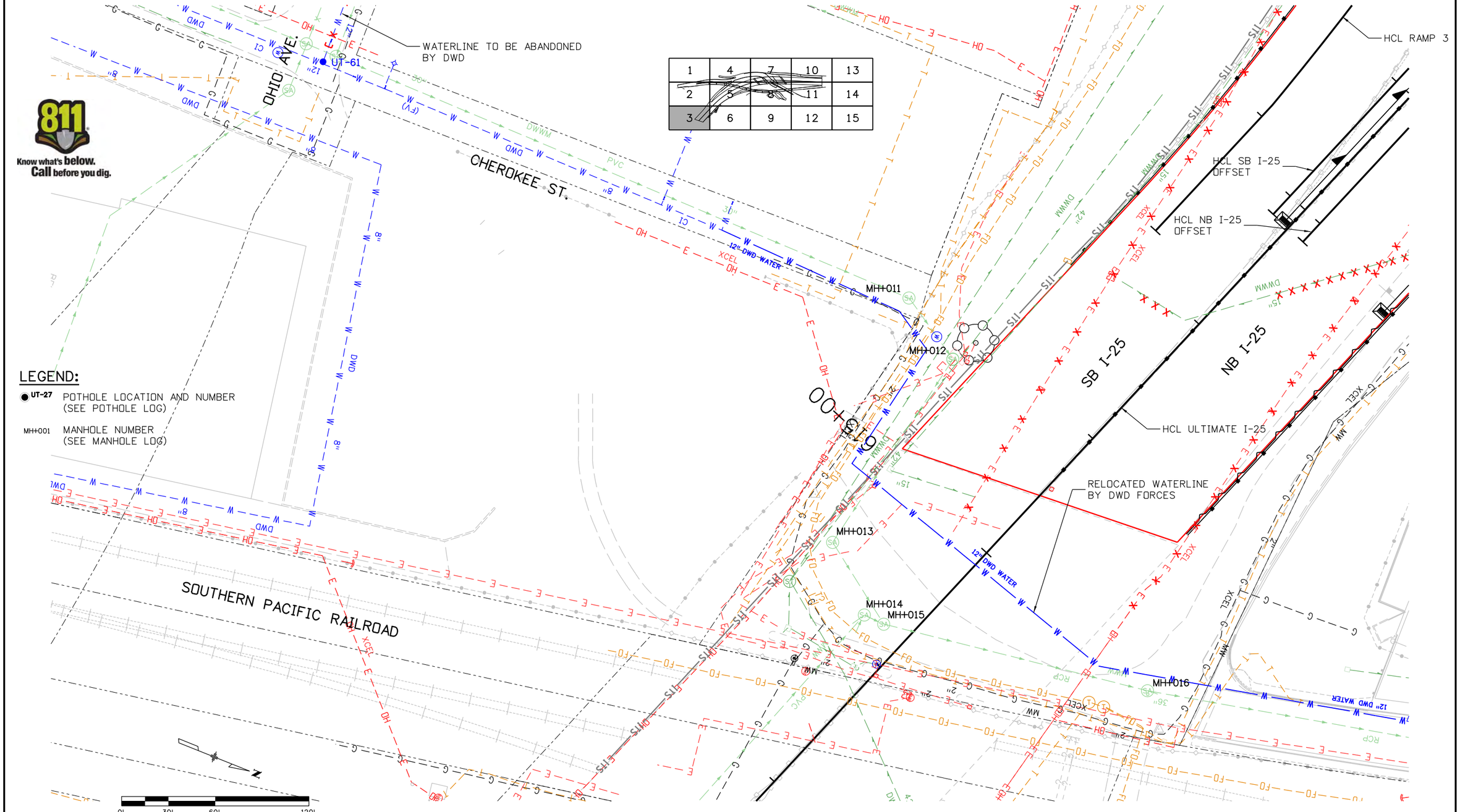

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LEGEND:

- UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

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File Name: 16311HA UTIL_PH2_I25_Plan03.dgn		Date:	Comments	Init.
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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 3 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 557

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Know what's **below.**
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LEGEND:

- ● UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

S PLATTE RIVER

QWEST FIBER LINE. PROTECT IN PLACE

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

0' 30' 60' 120'

395+00 400+00 725+00 810+00 312+16

HCL SB SANTA FE
HCL RAMP 4
HCL RAMP 3
RAMP 4
SB SANTA FE
NB SANTA FE
HCL NB SANTA FE

UT-57 UT-58 UT-59 UT-56

60" RCP FD
60" MWW
30" DWWM
15" DWWM
SA

Print Date: 10/18/2010			
File Name: 16311HA UTIL_PH2_I25_Plan04.dgn			
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Unit Information	Unit Leader Initials		

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Void:	

I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	4 of 15

Project No./Code	
BR 0252-407	
17783	
Sheet Number	558

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Know what's below. Call before you dig.

UT-60
UT-62
HCL RAMP 1
RAMP 1
MH1017
WATERLINE TO BE ABANDONED
HCL RAMP 3
RAMP 3
QWEST FIBER LINE. PROTECT IN PLACE
HCL SB I-25
HCL NB I-25
HCL RAMP 2
RAMP 2
WATERLINE TO BE ABANDONED
EXISTING CDOT ITS BACKBONE AND CONDUIT TO REMAIN INTACT.
SB I-25
NB I-25
ADJUST MANHOLE
MH1023
UT-65
MH1022
MH1024
MH1026
UT-63
UT-64
MH1027
HCL ULTIMATE I-25
RELOCATE CDOT BACKBONE FIBER.
SPLICE LINE
2-3" CONDUITS
1-2" CONDUIT
SEE ITS PLAN FOR ADDITIONAL INFORMATION.
PROTECT IN PLACE
RELOCATED WATERLINE BY DWD FORCES
PROTECT IN PLACE
RELOCATED WATERLINE BY DWD FORCES
MH1020

20+00
25+00
30+00
35+00
40+00
45+00
50+00
55+00
60+00
62+00

LEGEND:
UT-27 POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
MH1001 MANHOLE NUMBER (SEE MANHOLE LOG)

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

0' 30' 60' 120'

Print Date: 10/18/2010	Sheet Revisions		
File Name: 16311HA UTIL_PH2_I25_Plan05.dgn	Date:	Comments	Init.
Horiz. Scale: 1:60 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
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Void:

I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	5 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 559

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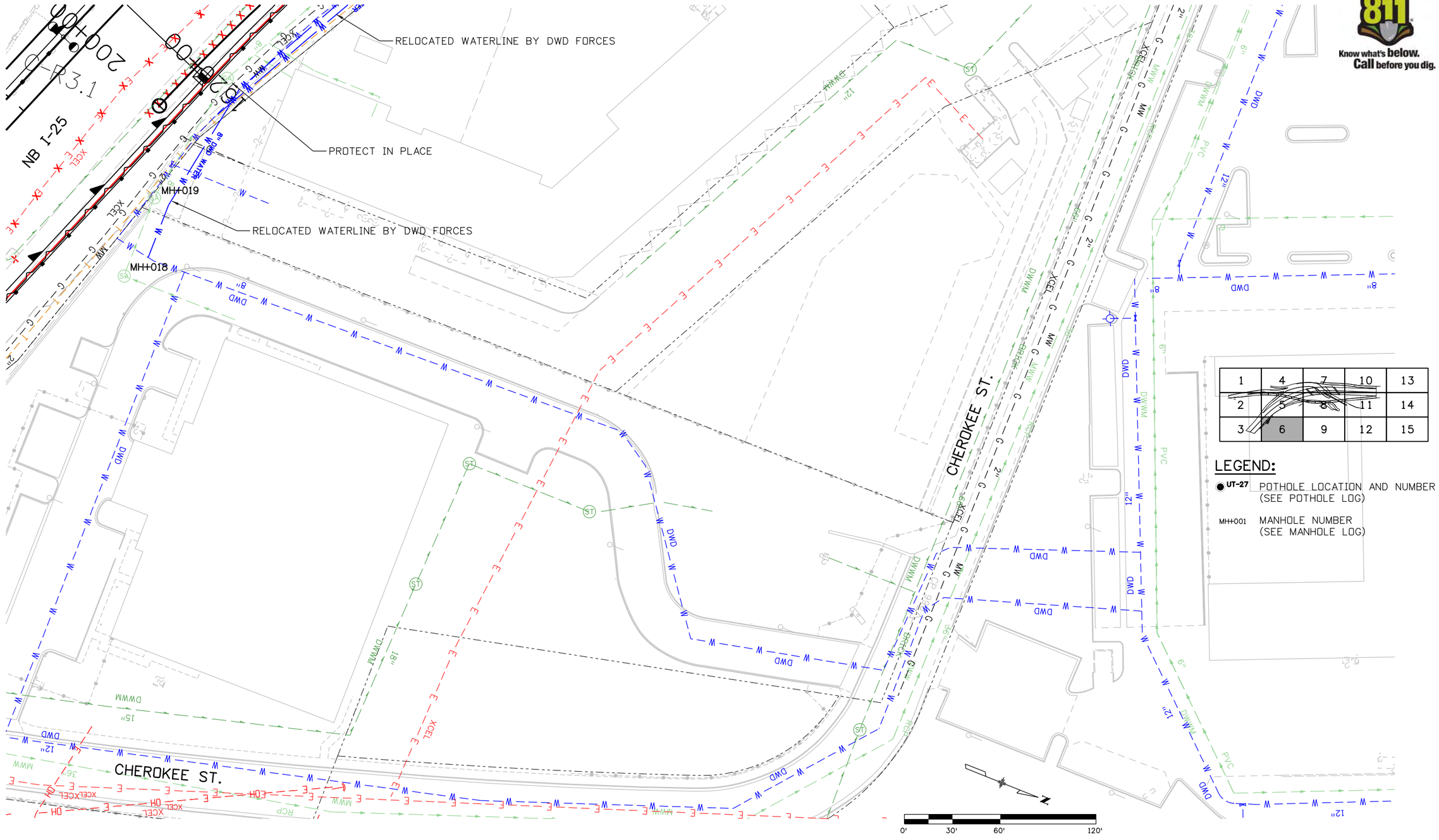

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Horiz. Scale: 1:60 Vert. Scale: As Noted				
Unit Information Unit Leader Initials				
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STAGE 1.2/1.3 - UTILITY PLAN

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	6 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 560

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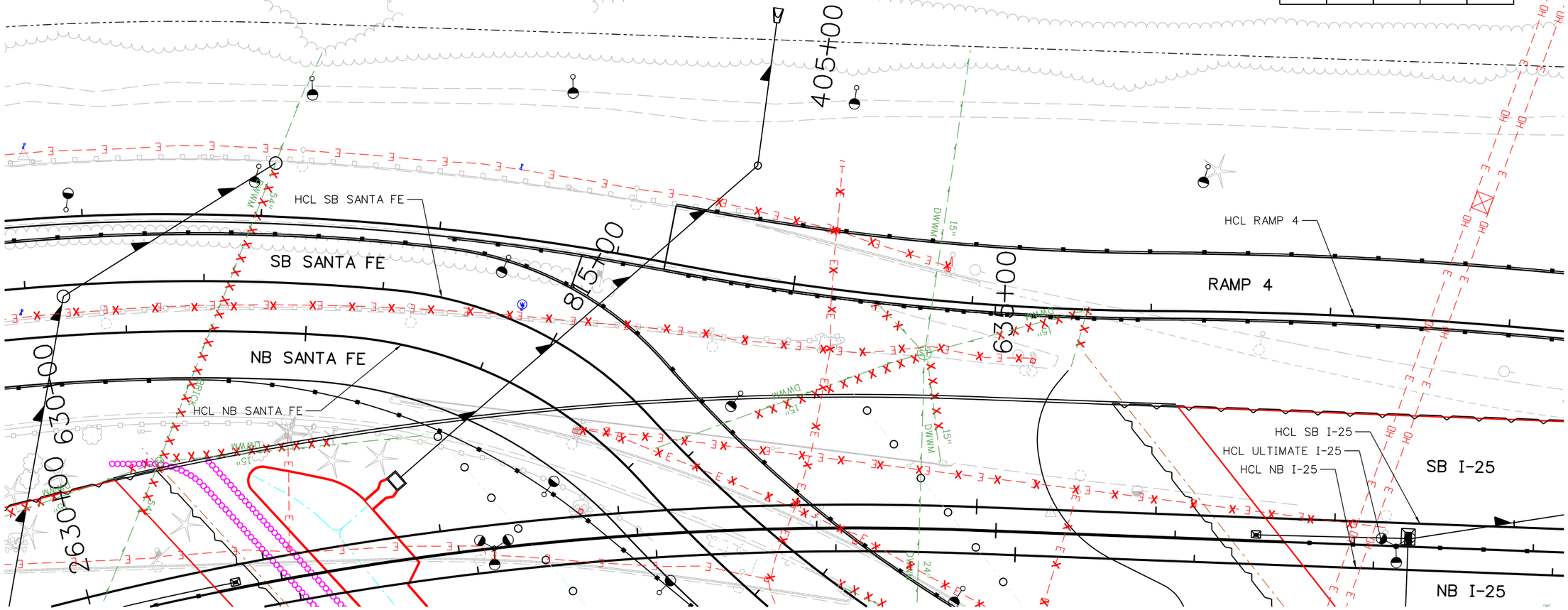
S. PLATTE RIVER

LEGEND:

- UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

0' 30' 60' 120'

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15



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Horiz. Scale: 1:60 Vert. Scale: As Noted			
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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	7 of 15

Project No./Code: BR 0252-407
17783
Sheet Number 561

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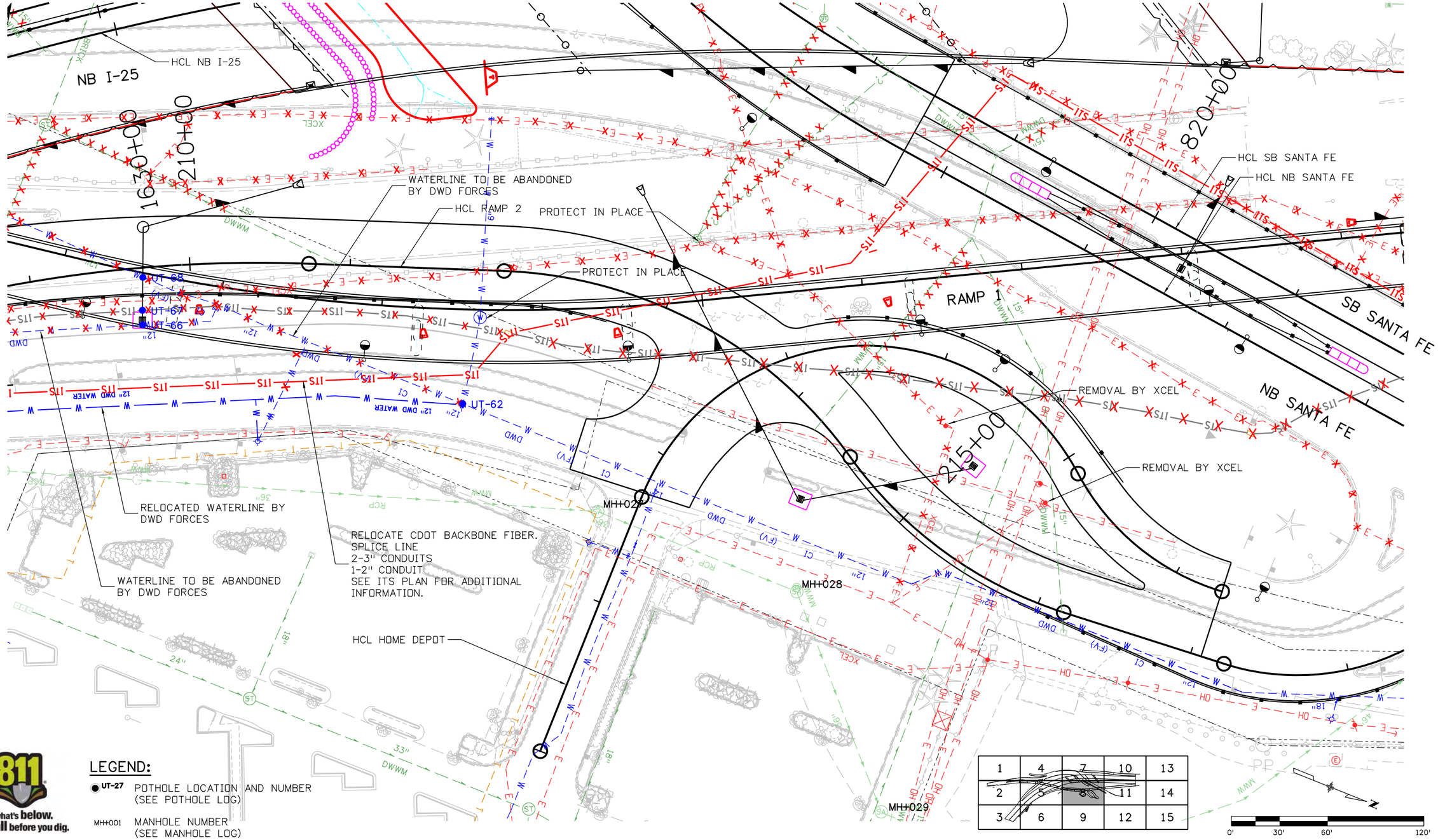

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_I25_Plan08.dgn
Horiz. Scale: 1:60 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 8 of 15

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BR 0252-407
17783
Sheet Number 562

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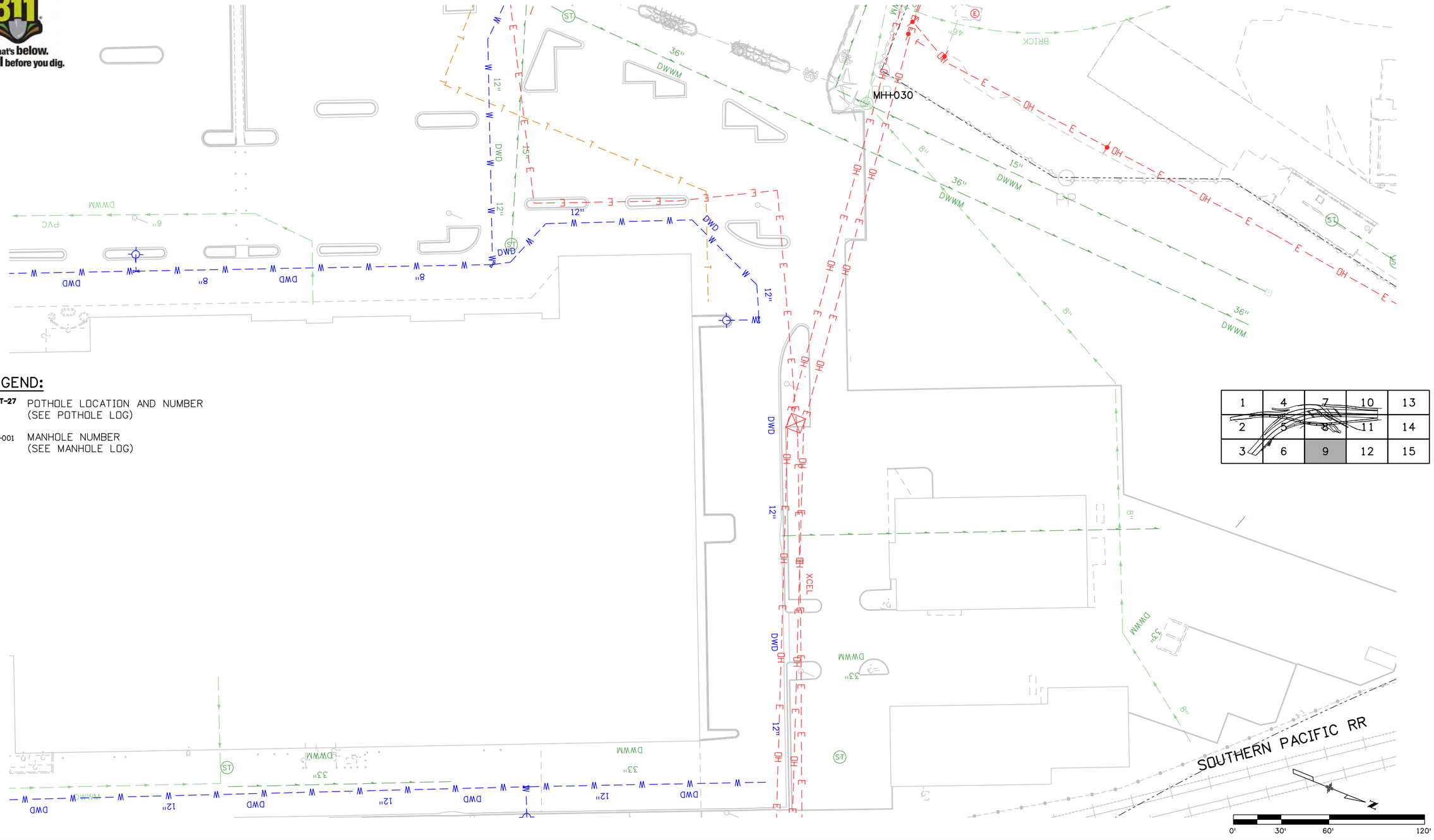
MH-030
36" DWWM
15" DWWM
8" DWWM
12" DWD
12" W
DWD
8" W
DWD
12" W
DWD
12" W
DWD
12

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LEGEND:

- ● UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

S PLATTE RIVER

0' 30' 60' 120'

410+00

415+00

640+00

645+00

635+00

RAMP 4

HCL RAMP 4

HCL SB I-25

HCL ULTIMATE I-25

HCL NB I-25

C-R4.PH2.7

SB I-25

60" RCP

42" RCP

30" PLASTIC

18" DWWM

30" DWWM

15" DWWM

MWW

OH

E

SA

Print Date: 10/18/2010	0000	Sheet Revisions		
File Name: 16311HA UTIL_PH2_I25_Plan10.dgn		Date:	Comments	Init.
Horiz. Scale: 1:60 Vert. Scale: As Noted				
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STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers:
Subset Sheets: 10 of 15

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BR 0252-407
17783
Sheet Number 564

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LEGEND:

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- MH#001 — MANHOLE NUMBER (SEE MANHOLE LOG)

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

NB I-25

HCL RAMP 1

HCL RAMP 2

EXISTING CDOT FIBER/CONDUIT TO REMAIN INTACT

RELOCATE CDOT BACKBONE FIBER. SPLICE LINE
2-3" CONDUITS
1-2" CONDUIT
SEE ITS PLAN FOR ADDITIONAL INFORMATION.

EXISTING CDOT FIBER/CONDUIT TO REMAIN INTACT

ADJUST MANHOLE

ADJUST MANHOLE

HCL NB SANTA FE

HCL SB SANTA FE

SB SANTA FE

NB SANTA FE

MH#031

MH#032

UT-70

UT-69

1640+00

1700+00

1720+00

1740+00

1760+00

1780+00

1800+00

1820+00

1840+00

1860+00

1880+00

1900+00

1920+00

1940+00

1960+00

1980+00

2000+00

2020+00

2040+00

2060+00

2080+00

2100+00

2120+00

2140+00

2160+00

2180+00

2200+00

2220+00

2240+00

2260+00

2280+00

2300+00

2320+00

2340+00

2360+00

2380+00

2400+00

2420+00

2440+00

2460+00

2480+00

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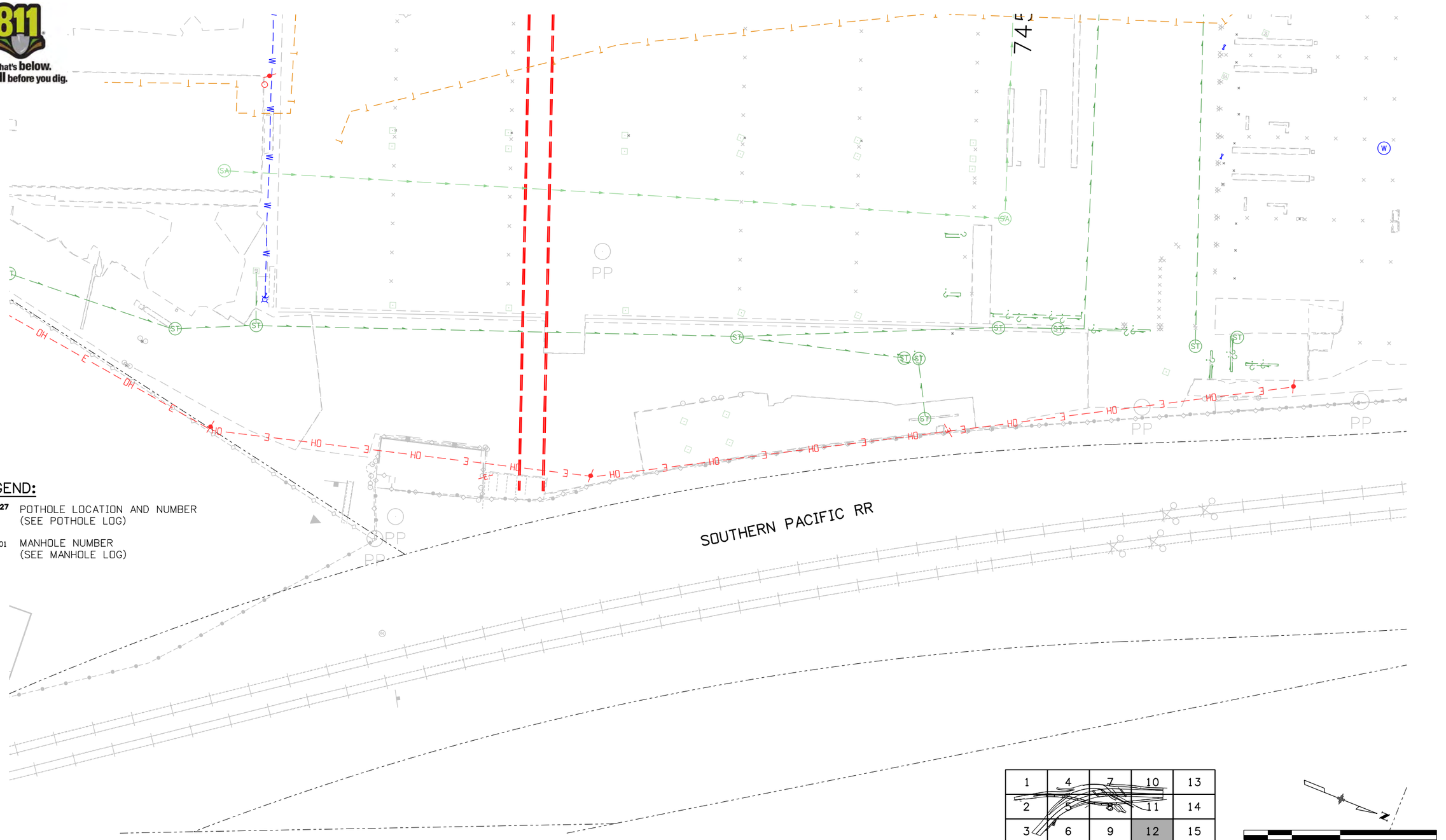

LEGEND:

- ● UT-27 POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 MANHOLE NUMBER (SEE MANHOLE LOG)

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

0' 30' 60' 120'

Print Date: 10/18/2010	Sheet Revisions		
File Name: 16311HA UTIL_PH2_I25_Plan12.dgn	Date:	Comments	Init.
Horiz. Scale: 1:60 Vert. Scale: As Noted			
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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	12 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 566

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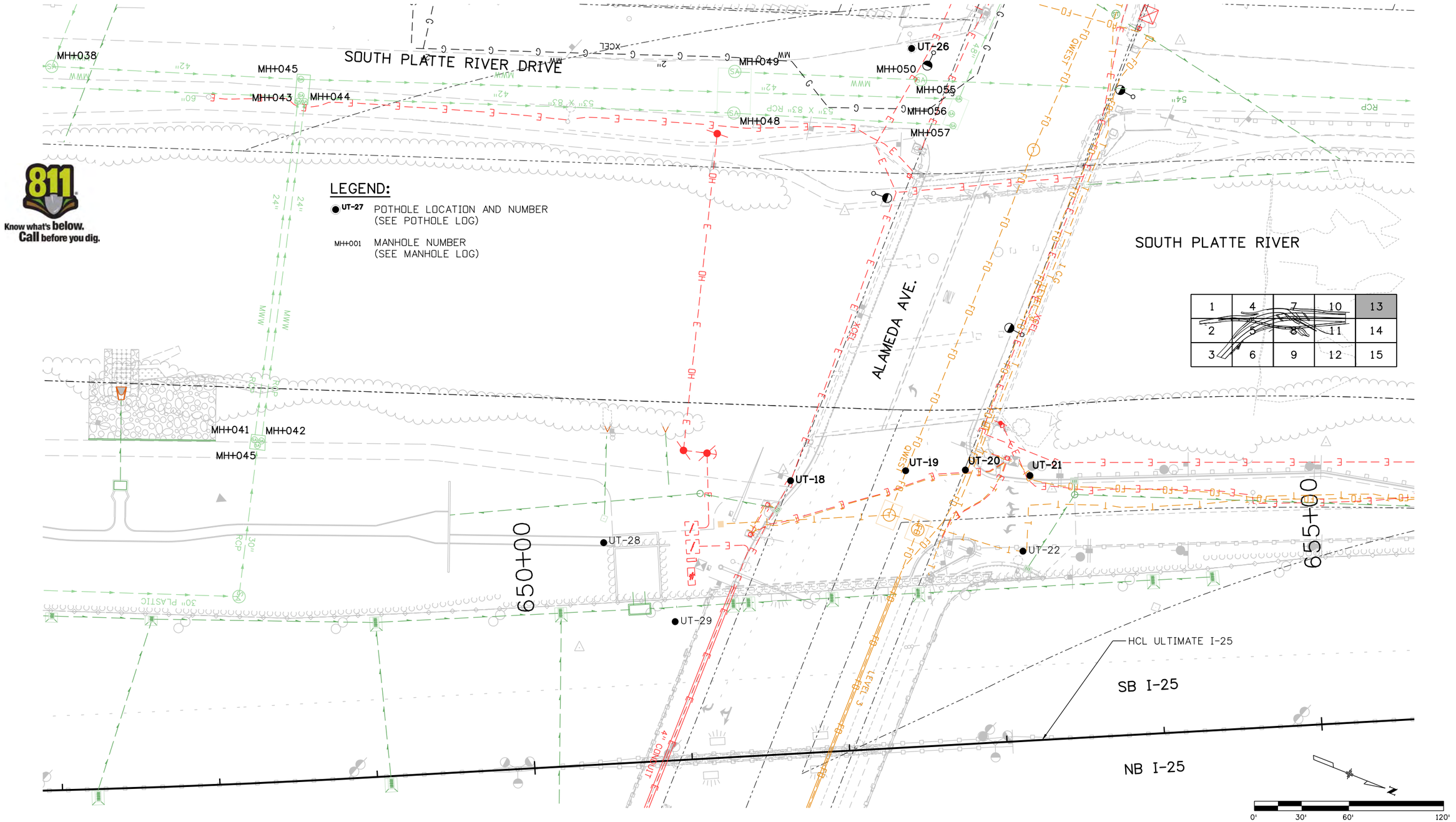

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3	6	9	12	15										

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_I25_Plan13.dgn
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Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

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Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 13 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 567

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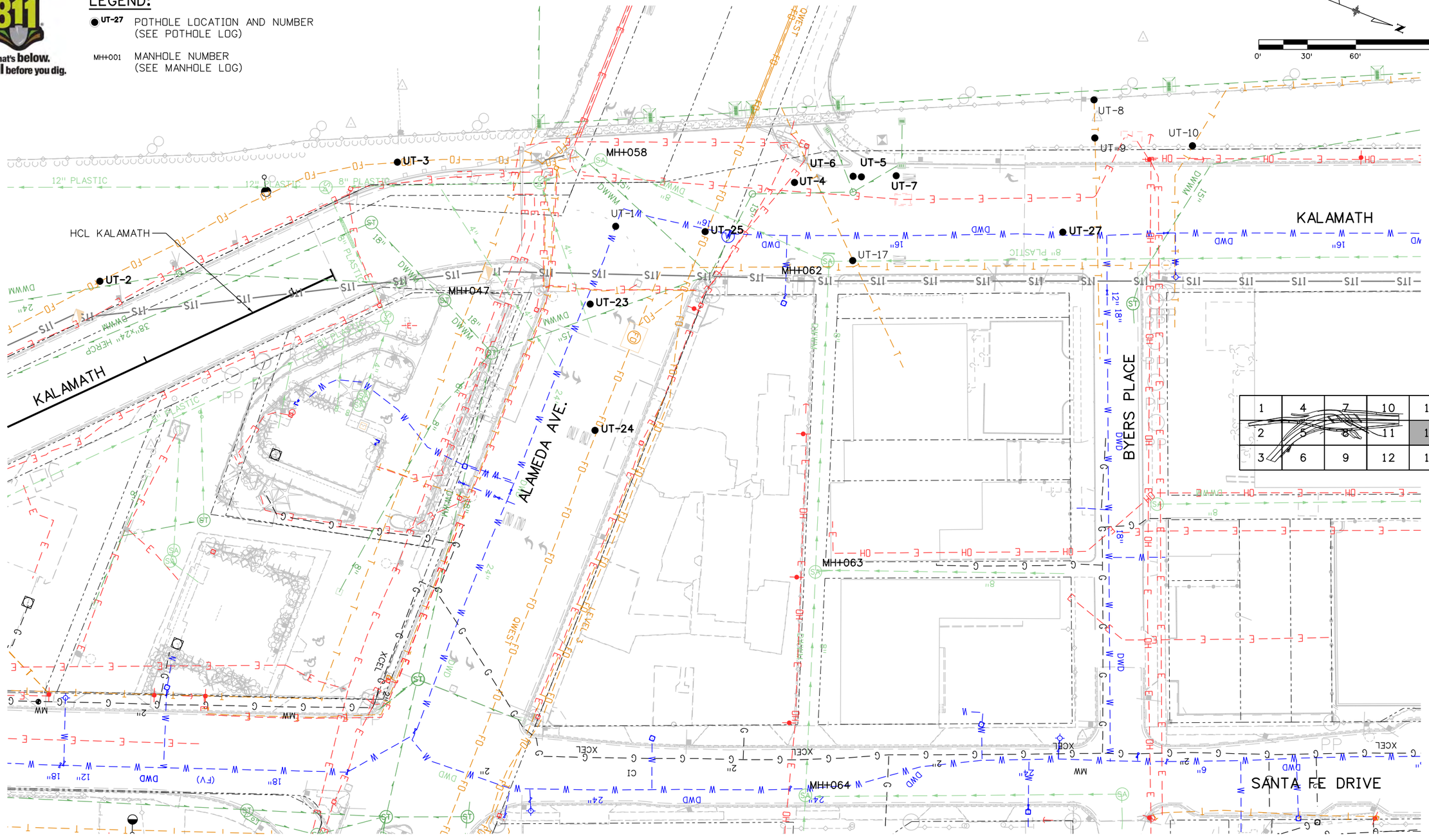
Know what's below. Call before you dig.

LEGEND:

- ● UT-27 — POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 — MANHOLE NUMBER (SEE MANHOLE LOG)

0' 30' 60' 120'



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File Name: 16311HA UTIL_PH2_I25_Plan14.dgn
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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers:
Subset Sheets: 14 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 568

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Know what's below. Call before you dig.

ALAMEDA AVE.

SOUTHERN PACIFIC RR

LEGEND:

- UT-27 POTHOLE LOCATION AND NUMBER (SEE POTHOLE LOG)
- MH-001 MANHOLE NUMBER (SEE MANHOLE LOG)

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15

0' 30' 60' 120'

Print Date: 10/18/2010
File Name: 16311HA UTIL_PH2_I25_Plan15.dgn
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I-25/SANTA FE INTERCHANGE
STAGE 1.2/1.3 - UTILITY PLAN

Designer: M. HARTWIG
Detailer: D. DYER
Sheet Subset: UTILITY
Structure Numbers
Subset Sheets: 15 of 15

Project No./Code
BR 0252-407
17783
Sheet Number 569

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GENERAL NOTES

1. UTILITY LINES ARE SHOWN FOR INFORMATION ONLY. SEE UTILITY AND DRAINAGE PLANS FOR COMPLETE INFORMATION.
2. EXISTING CONDITIONS SHALL BE VERIFIED AT THE SITE PRIOR TO SUBMITTING BIDS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AASHTO AND THE COLORADO DEPARTMENT OF TRANSPORTATION REGULATIONS AND STANDARDS.
3. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 36" BELOW GRADE PRIOR TO PAVING. ALL CONDUIT UNDER TRAVELLED WAY AND ALL CONDUIT ELBOWS SHALL BE PVC COATED GRC. REMAINING IN GRADE CONDUIT SHALL BE SCHEDULE 80 PVC TYPE CONDUIT. ALL CONDUIT WITHIN BRIDGE STRUCTURES 2" OF GREATER OR WALLS SHALL BE SCHEDULE 80 PVC, AND LESS THAN 2" SHALL BE GRC.
4. CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND CONSTRUCTION SEQUENCE WITH ALL TRADES AND WITH XCEL ENERGY.
5. PROVIDE PULL BOXES AND JUNCTION BOXES AS NECESSARY ACCORDING TO THE NATIONAL ELECTRICAL CODE, AASHTO REQUIREMENTS, XCEL ENERGY, AND OTHER GOVERNING AUTHORITIES. NOT ALL PULL BOXES THAT ARE REQUIRED ARE SHOWN IN PLAN. PROVIDE PULL BOXES AND JUNCTION BOXES, SIZED AS REQUIRED, TO PROVIDE A WEATHER TIGHT RACEWAY SYSTEM. REFER TO BRIDGE PLANS FOR PULL BOX LOCATION.
6. REFER TO THE CDOT M&S STANDARDS FOR ADDITIONAL INSTALLATION DETAILS.
7. PRIOR TO THE COMMENCEMENT OF DEMOLITION ASSOCIATED WITH THIS PROJECT, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND THE SCOPE OF ELECTRICAL DEMOLITION WORK. REFER TO THE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT PLANS OF ALL FEEDER AND BRANCH CIRCUIT LOCATIONS FOR USE BY XCEL ENERGY. DELIVER TO STEVE SMITH, 303-571-3945.
9. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL JUNCTION BOXES, CONNECTION LOCATIONS, LIGHT POLES, ETC. WITH CIRCUIT INFORMATION, WHERE WIRES EXTEND TO, AND XCEL ENERGY GRID NUMBER (AS APPLICABLE).
10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY LIGHTING(MAINTAIN AT LEAST 50% OF EXISTING OR NEW PERMANENT LTG) DURING ALL CONSTRUCTION PHASES OF THE PROJECT, INCLUDING BUT NOT LIMITED TO TEMPORARY DETOURS, ALIGNMENTS AND RAMPS.
11. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL UNDERGROUND ELECTRICAL CONDUIT AND WIRE THAT INTERFERES WITH THE NEW ROADWAY ALIGNMENT. IF THE ELECTRICAL CONDUIT AND WIRE IS STILL REQUIRED FOR SERVICE, THE ELECTRICAL CONTRACTOR SHALL RESET OUT OF NEW ALIGNMENT. REFER TO THE UTILITY PLANS FOR ADDITIONAL INFORMATION.
12. XCEL ENERGY SHALL REMOVE ALL EXISTING LIGHTING EQUIPMENT SUCH AS LUMINAIRES AND POLES SHOWN ON THESE DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED CAISSIONS, AND LIGHT STANDARD FOUNDATIONS.
13. THE ELECTRICAL CONTRACTOR SHALL SUBMIT AN XCEL ENERGY BUILDERS CALL LINE APPLICATION FOR ANY ELECTRICAL WORK ELEMENT THAT IS TO BE NEW OR RELOCATED OR ASSOCIATED WITH THIS PROJECT.
14. PRIOR TO WORK ON SANTA FE, RAMP 1, AND I-25 ALL NEW LIGHT LOCATIONS, INCUDING UNDER DECK LIGHTING SHALL BE STAKED OR DESIGNATED FOR FIELD REVIEW AND CONFIRMATION. UNDER DECK LIGHTING SHALL BE LOCATED IN THE ULTIMATE CONFIGURATION OF I-25 AND SANTA FE. ANY ADJUSTMENTS TO THE LIGHTING LOCATIONS AND ELECTRICAL CONDUIT ROUTING BASED ON THE WALK THROUGH SHALL BE STAKED OR DESIGNATED. FINAL LIGHTING LOCATIONS SHALL BE APPROVED BY XCEL ENERGY AND THE PROJECT ENGINEER PRIOR TO ORDERING MATERIALS ASSOCIATED WITH STREET LIGHTING. COORDINATE ANY ELECTRICAL CONDUIT ROUTING CHANGES WITH BRIDGE PLANS PRIOR TO BRIDGE CONSTRUCTION.
15. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A PULL BOX AT THE BASE OF EACH LIGHT STANDARD.
16. ALL CONDUIT WITHIN BRIDGE STRUCTURES ARE TABULATED ON THE BRIDGE PLANS.
17. ALL PULL BOXES AND JUNCTION BOXES SHALL BE NEMA 3RX TYPE.

DETAIL NOTES (ALL PLAN SHEETS)

1. CONNECT LUMINAIRE TO EXISTING CIRCUIT IN THIS AREA.
2. INSTALL LUMINAIRE ON BLISTER CAP THAT IS PART OF PIER FOR BRIDGE STRUCTURE. INSTALL CIRCUITRY WITHIN CONDUIT CONCEALED IN THE BRIDGE STRUCTURE. REFER TO BRIDGE PLANS FOR CONDUIT AND JUNCTION BOX LOCATIONS.
3. INSTALL JUNCTION BOX IN MEDIAN AND ROUTE CONDUIT BELOW I-25 FOR CONNECTION TO MID-MAST AS SHOWN.
4. EXTEND CONDUIT FROM MEDIAN MOUNTED LUMINAIRE TO END OF PERMANENT BARRIER, INSTALL IN-GRADE PULL BOX AT TERMINATION LOCATION. REFER TO DETAIL #2 ON SHEET LD-02.
5. NOT USED AT THIS TIME.
6. INSTALL NEW ELECTRICAL CONNECTION TO 40' POLE FOR TRAFFIC CAMERA ON BLISTER ON PIER. REFER TO BRIDGE PLANS FOR CONDUIT INSTALLATION DETAILS.
7. PROVIDE AND INSTALL NEW MEDIAN MOUNTED LUMINAIRE. REFER TO DETAIL SHEETS, LD, FOR ADDITIONAL INFORMATION.
8. RELOCATE EXISTING ELECTRICAL CONNECTION TO EXISTING ITS POLE. REFER TO ITS PLANS FOR ADDITIONAL REQUIRMENTS.
9. NOT USED AT THIS TIME.
10. EXISTING LUMINAIRE TO BE REMOVED BY XCEL ENERGY. MAINTAIN EXISTING CIRCUITRY TO ALL DOWNSTREAM DEVICES. COORDINATE REMOVAL WITH XCEL ENERGY.
11. NOT USED AT THIS TIME.
12. EXISTING PAD MOUNTED TRANSFORMER BY XCEL ENERGY.
13. NEW LIGHTING CONTROL CABINET. REFER TO ONE-LINE DIAGRAM AND THE CDOT M&S STANDARDS FOR ADDITIONAL REQUIRMENTS.
14. EXISTING LUMINAIRE MOUNTED TO BRIDGE STRUCTURE TO BE REMOVED BY XCEL ENERGY. COORDINATE REMOVAL WITH XCEL ENERGY.
15. INSTALL CIRCUITS FOR RAMP 1 LIGHTING UP PIER 7. REFER TO THE BRIDGE PLANS FOR ADDITIONAL INFORMATION.

ELECTRICAL LEGEND

	New Light Standard With Fixture Designation
(E)	Existing Light Standard To Remain
	Existing Light Standard To Be Removed
	Existing Under-Bridge Luminaire To Be Removed
	New Under-Bridge Luminaire
J	Electric Pull Box
T	Existing Utility Company Pad Mounted transformer, 120/240V,1-PH,3W
	Ground Rod
	New Panelboard
E	New Circuit Run - Concealed
E	Home Run - Number of Arrows Indicates Number of Circuits
	Fused Disconnect Switch
	Existing Highmast Light Standard

	Panelboard (Diagrammatic)
1	Feeder Size Callout
1	Detail Note Designation
1 / LT-##	Detail Reference Designation
R.O.W.	Right of Way
MIN.	Minimum
P.V.C.	Polyvinyl Chloride Conduit
DIA.	Diameter
U.N.O.	Unless Noted Otherwise
N.I.C.	Not in Contract

FEEDER SCHEDULE

1. (2#6 CU THWN & 1#6 CU THWN GND) 1"C.
2. (3#1 CU THWN & 1#1 CU THWN GND) 3"C.
3. (3#4 CU TRIPLEX & 1#6 CU GND) 2"C
4. (3#6 CU THWN & 1#8 CU THWN GND) 2"C
5. (3#4 CU THWN & 1#1 CU THWN GND) 3"C
6. (6#4 CU THWN & 1#1 CU THWN GND) 3"C
7. (3#4 CU THWN & 1#8 CU THWN GND) 2"C
8. (2#4 CU THWN & 1#8 CU THWN GND) 2"C
9. (3#4 CU THWN & 1#8 CU THWN GND) 1"C

SHEET INDEX	SHEET NO.	QUANTITY
COVER SHEET	LC-1	1
EXISTING LIGHTING PLANS	ELP-1 - ELP-4	4
I25 LIGHTING PLANS	LP-1 - LP-4	4
RAMP 1 LIGHTING PLANS	RLP-1 - RLP-3	3
SANTA FE LIGHTING PLANS	SFLP-1 - SFLP-4	4
LIGHTING DETAILS	LD-1 - LD-4	4
LIGHTING TABULATION	LT-1 - LT-2	2

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Scanlon Szynskie Group, Inc.
3045 S. Parker Road, Suite 225
Aurora, Co 80014-2950
303.696.2602 fax 303.696.0812
SSG PROJECT NO.: 07029.00

Sheet Revisions		
Date:	Comments	Init.
12.3.2010	REVISION #1	KAT
1.3.2011	REVISION #2	KAT

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2000 South Holly Street
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I-25/SANTA FE INTERCHANGE
ELECTRICAL LEGEND AND NOTES

Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LC-1 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 570 B

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Know what's below. Call before you dig.

PC 604+95.65

610+00

PT 611+67.11

615+00

SB I-25

NB I-25

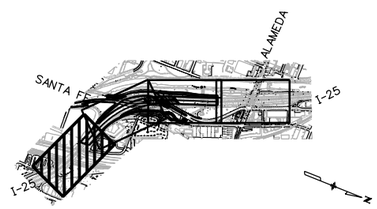
C-125.1

(E)

MATCHLINE I-25 STA. 619+00

524B

44



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1.3.2011	REVISION #2	KAT		Revised:	Designer: KAT / Structure Numbers	16311
Unit Information Unit Leader Initials						Void:	Detailer: ADC	
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					Region 6 RLB		Sheet Subset: LIGHTING / Subset Sheets: ELP-1 of 22	Sheet Number 571 B

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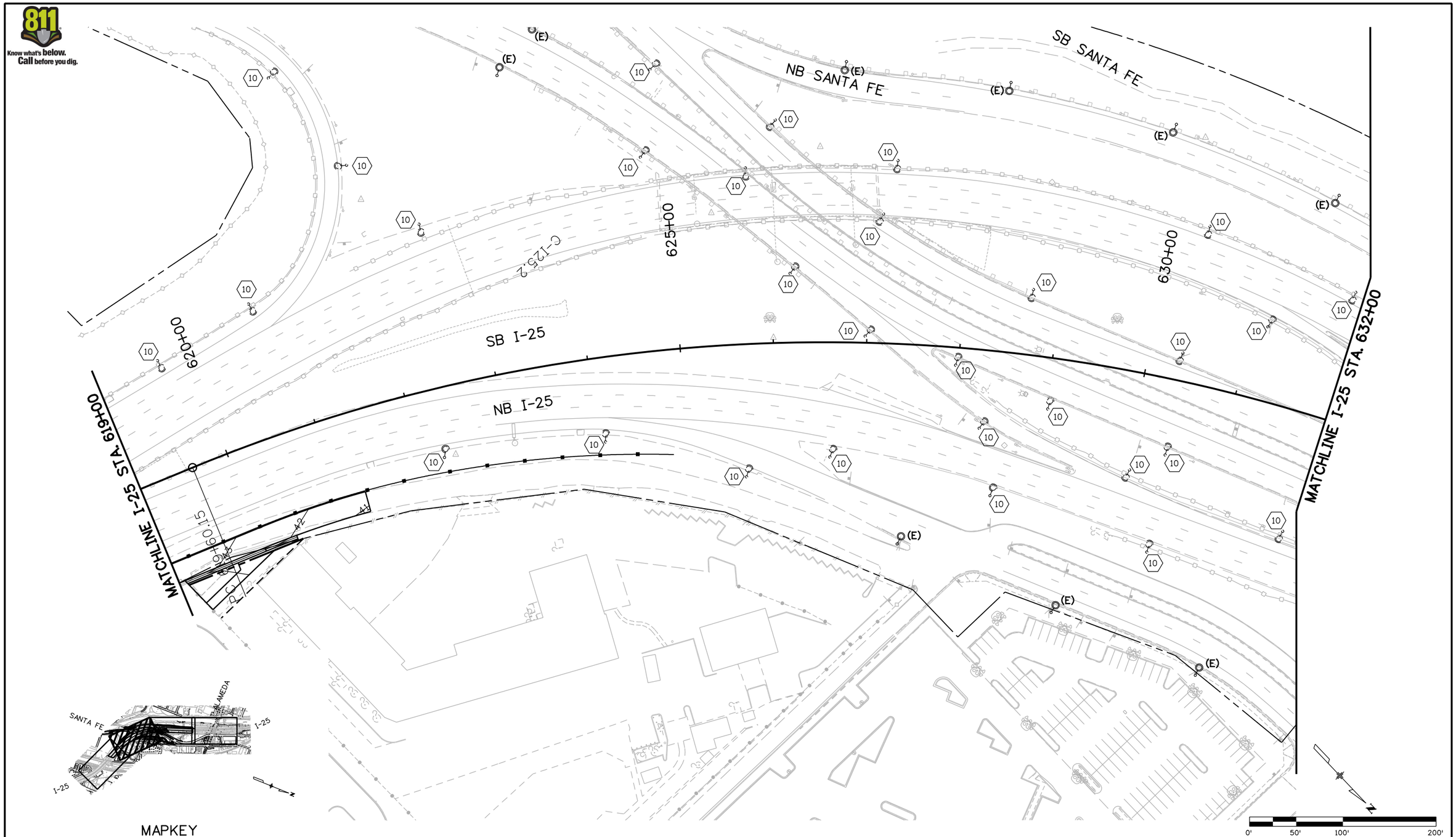

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Unit Information Unit Leader Initials			

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I-25/SANTA FE INTERCHANGE
EXISTING ROADWAY LIGHTING PLAN

Designer:	KAT	Structure Numbers	
Detailer:	ADC		
Sheet Subset:	LIGHTING	Subset Sheets: ELP-2 of 22	

Project No./Code
IM 0254-394
16311
Sheet Number 572 B

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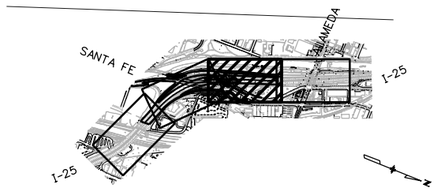

SOUTH PLATTE RIVER

MAPKEY

RAMP 4

SB SANTA FE

NB SANTA FE

SB I-25

NB I-25

RAMP 1

635+00

640+00

PC 642+57.10

PT 634+87.46

MATCHLINE I-25 STA. 632+00

MATCHLINE I-25 STA. 645+00

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303.696.2602 fax 303.696.0812
SSG PROJECT NO.: 07029.00

R-1
R-2

Sheet Revisions		
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12.3.2010	REVISION #1	KAT
1.3.2011	REVISION #2	KAT

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Region 6 RLB

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I-25/SANTA FE INTERCHANGE
EXISTING ROADWAY LIGHTING PLAN

Designer:	KAT	Structure Numbers	
Detailer:	ADC		
Sheet Subset:	LIGHTING	Subset Sheets:	ELP-3 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 573 B

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SOUTH PLATTE RIVER

MATCHLINE I-25 STA. 645+00

SB I-25

NB I-25

C-125.3

PT 648+94.88

650+00

ALAMEDA AVE.

RAMP 5

655+00

PC 655+87.59

SB SANTA FE

SB KALAMATH

(E)

PP

T LOC

MAPKEY

SANTA FE

ALAMEDA

I-25

N

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311EXSTLTG_PH2_ELP-4.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted		1.3.2011	REVISION #2	KAT	Region 6 RLB
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Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00	R-2				

As Constructed	I-25/SANTA FE INTERCHANGE EXISTING ROADWAY LIGHTING PLAN			Project No./Code
No Revisions:				IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
Void:	Detailer: ADC			Sheet Number 574 B
	Sheet Subset: LIGHTING	Subset Sheets: ELP-4 of 22		

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SB I-25

NB I-25

POB 611+67.11

615+00

(E)

POB 617+83.97

POB 0+00.00

1+00

2+00

3+00

C-FR.PH2.

POB 10+00.00

PC 11+33.83

PT 12+23.43

POB 16+83.97

MATCHLINE I-25 STA. 619+00

SANTA FE

ALAMEDA

I-25

MAPKEY

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311LTG_PH2_I-25Plan1.dgn		Date:	Comments	Init.		No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1.3.2011	REVISION #2	KAT	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials					Region 6 RLB	Void:
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I-25/SANTA FE INTERCHANGE I-25 ROADWAY LIGHTING PLAN			Project No./Code
			IM 0254-394
Designer: KAT	Structure Numbers		16311
Detailer: ADC			Sheet Number 575 B
Sheet Subset: LIGHTING	Subset Sheets: LP-1 of 22		

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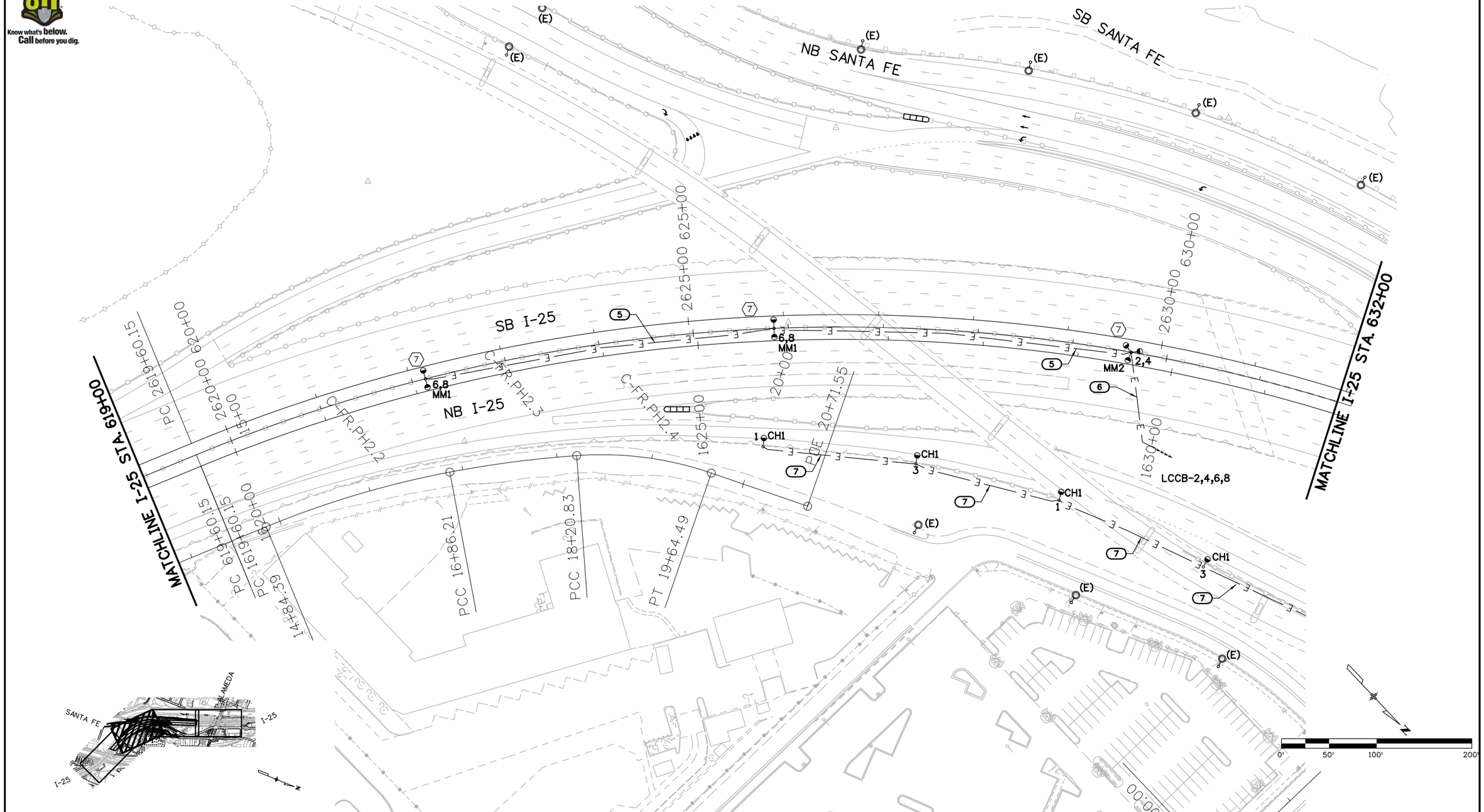

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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12.3.2010	REVISION #1	KAT	Region 6 RLB	Revised:
Unit Information Unit Leader Initials	R-2	1.3.2011	REVISION #2	KAT		Void:
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I-25/SANTA FE INTERCHANGE I-25 ROADWAY LIGHTING PLAN			Project No./Code
			IM 0254-394
Designer: KAT	Structure Numbers		16311
Detailer: ADC			
Sheet Subset: LIGHTING	Subset Sheets: LP-2 of 22		Sheet Number 576 B

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CDOT-DefaultPrinter_XM.pltcfg CDOT-Pen Table.tbl

Know what's below. Call before you dig.

SOUTH PLATTE RIVER

RAMP 4

(E)

SB SANTA FE

NB SANTA FE

MATCHLINE I-25 STA. 632+00

PT 2634+98.65

635+00

MM2 6,8

PDE 10+00.00

SB I-25

2640+00

PDE 2641+66.29

PC 642+57.10

PT 2419.71

MATCHLINE I-25 STA. 645+00

NB I-25

PT 634+87.46

PT 1634+76.28

PDB 0+00.00

PDE 2+80.00

(E)

LCCB-2,4 (PART)

MM2

LCCB T

1640+00

PDE 1641+43.91

PDB 4+00.00

PDE 4+25.00

RAMP 1

LCCB-1,3

CH1

PC 91+70.53

PRC 95+11.69

PT 96+30.82

SANTA FE

I-25

AMEDA

MAPKEY

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311LTG_PH2_I-25Plan3.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12.3.2010	REVISION #1	KAT	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1.3.2011	REVISION #2	KAT	
Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					

As Constructed	I-25/SANTA FE INTERCHANGE I-25 ROADWAY LIGHTING PLAN			Project No./Code
No Revisions:				IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
Void:	Detailer: ADC			Sheet Number 577 B
	Sheet Subset: LIGHTING	Subset Sheets: LP-3 of 22		

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12/14/2010 CDOT-Default(Printer_XM.pltcfg CDOT-Pen Table.tbl

Know what's below. Call before you dig.

SOUTH PLATTE RIVER

MATCHLINE I-25 STA. 645+00

PC 640+00.00

PT 648+94.88

650+00

SB I-25

NB I-25

ALAMEDA AVE.

RAMP 5

655+00

POE 655+87.59

END OF PROJECT

(E)

SB SANTA FE

SB KALAMATH

3 LD-3

MAPKEY

SANTA FE

ALAMEDA

I-25

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311LTG_PH2_I-25Plan4.dgn		Date:	Comments	Init.	2000 South Holly Street
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1.3.2011	REVISION #2	KAT	Denver, CO 80222
Unit Information Unit Leader Initials					Phone: 303-972-9112 FAX: 303-972-9114
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE			Project No./Code
No Revisions:	I-25 ROADWAY LIGHTING PLAN			IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
Void:	Detailer: ADC			
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12/14/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

SB SANTA FE

SOUTH PLATTE RIVER

NB SANTA FE

RAMP 1

POB 100+11.81

105+00

110+00

PI 104+42.64

PC 110+19.77

MATCHLINE RAMP 1
STA. 113+00

(E)

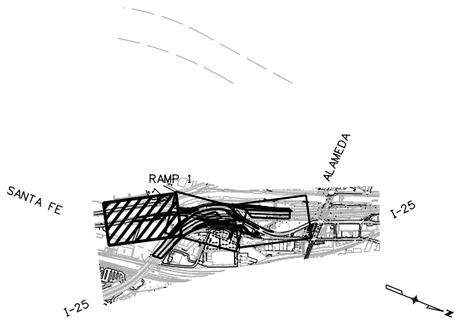
12 CH1

10 CH1

8

7

0' 50' 100' 200'



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Horiz. Scale: 1:100 Vert. Scale: As Noted		1.3.2011	REVISION #2	KAT		Revised:
Unit Information Unit Leader Initials					Region 6 RLB	Void:
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00						

I-25/SANTA FE INTERCHANGE RAMP 1 LIGHTING PLAN			Project No./Code
Designer: KAT	Structure Numbers		IM 0254-394
Detailer: ADC			16311
Sheet Subset: LIGHTING	Subset Sheets: RLP-1 of 22		Sheet Number 579 B

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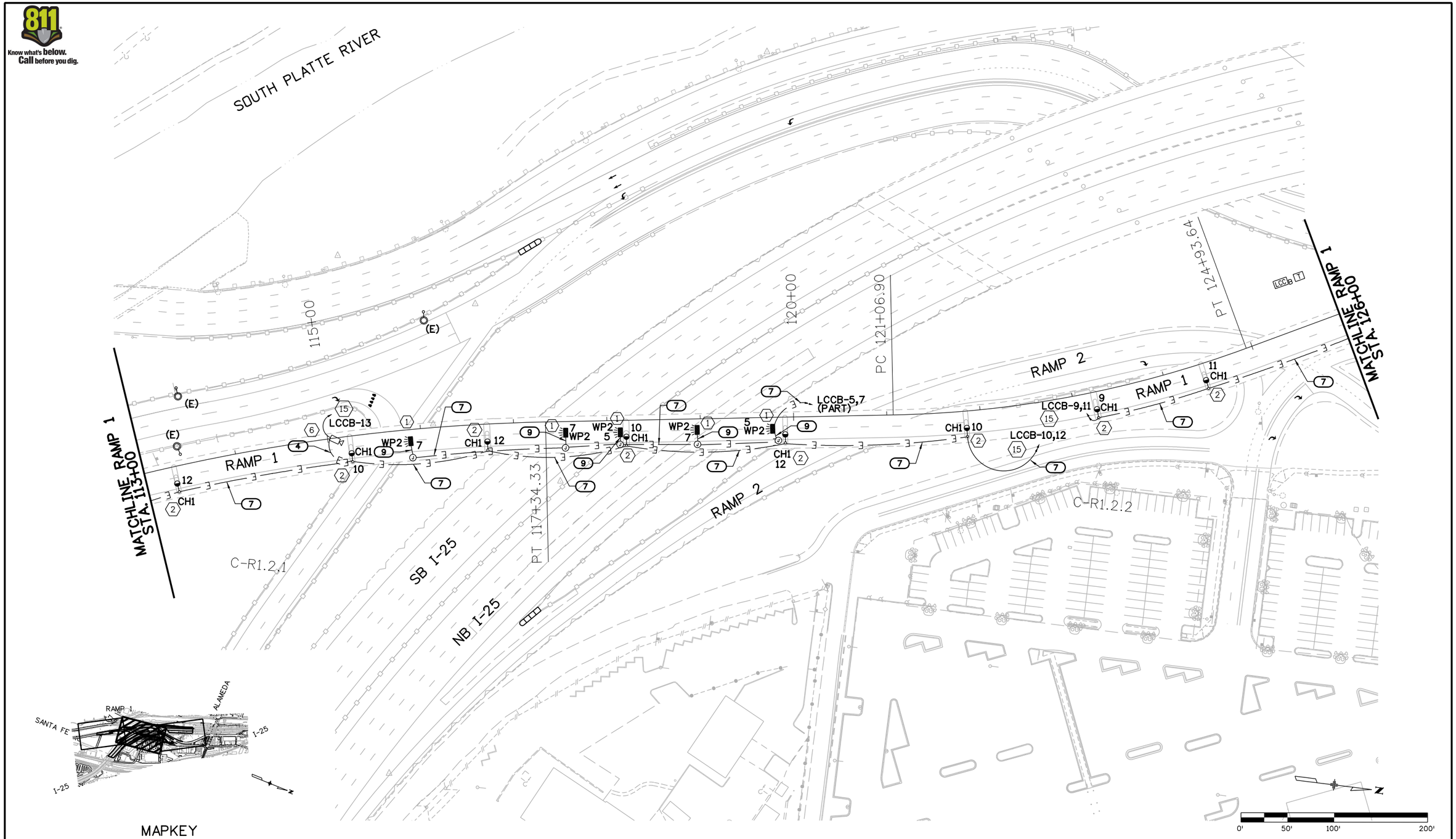
Know what's below. Call before you dig.



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Unit Information Unit Leader Initials	R-2	1.3.2011	REVISION #2	KAT
Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00				

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 LIGHTING PLAN			Project No./Code
No Revisions:				IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
Void:	Detailer: ADC			
	Sheet Subset: LIGHTING	Subset Sheets: RLP-2 of 22		Sheet Number 580 B

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12/14/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

SOUTH PLATTE RIVER

SB I-25

NB I-25

130+00

135+00

POE 135+99.06

MATCHLINE RAMP 1
STA. 126+00

RAMP 1

END OF PROJECT

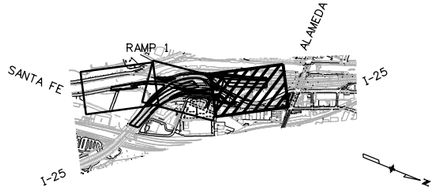
SB SANTA FE

NB SANTA FE

LCCB-5 (PART)

WP2

CH1



MAPKEY

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311LTG_PH2_Ramp1Plan3.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12.3.2010	REVISION #1	KAT	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1.3.2011	REVISION #2	KAT	
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					

As Constructed	I-25/SANTA FE INTERCHANGE			Project No./Code
No Revisions:	RAMP 1 LIGHTING PLAN			IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
Void:	Detailer: ADC			Sheet Number 581 B
	Sheet Subset: LIGHTING	Subset Sheets: RLP-3 of 22		

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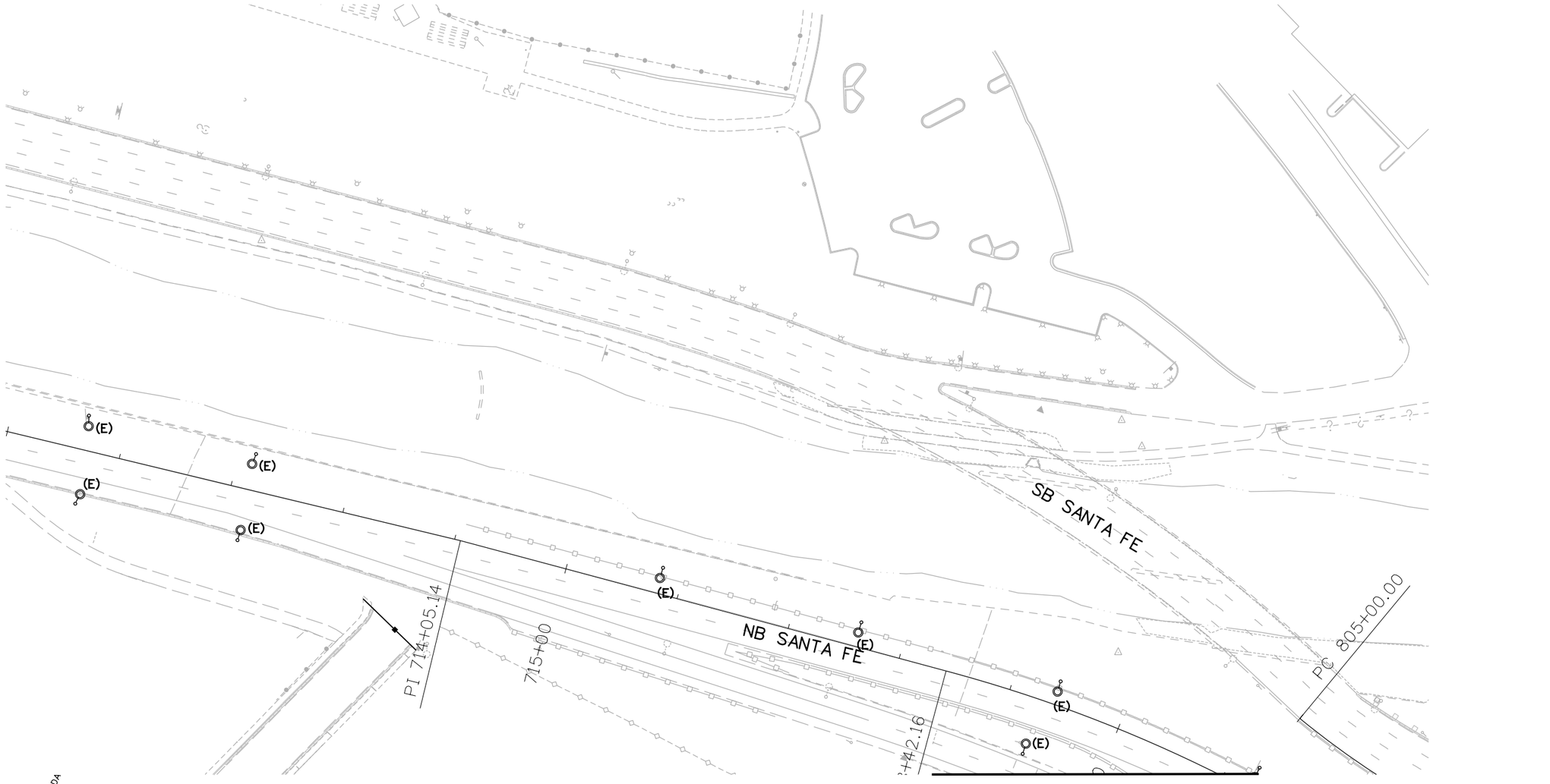
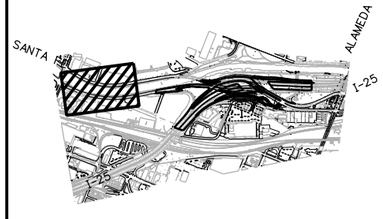
Know what's **below.**
Call before you dig.



MATCHLINE SANTA FE STA. 720+00



MAPKEY

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311LTG_PH2_SFLP-1.dgn		Date:	Comments	Init.	2000 South Holly Street	No Revisions:	SANTA FE ROADWAY LIGHTING PLAN	IM 0254-394
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	1.3.2011	REVISION #2	KAT	Denver, CO 80222	Revised:	Designer: KAT / Structure Numbers	16311
Unit Information Unit Leader Initials					Phone: 303-972-9112 FAX: 303-972-9114	Void:	Detailer: ADC / Structure Numbers	
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					Region 6 RLB		Sheet Subset: LIGHTING / Subset Sheets: SFLP-01 of 22	Sheet Number 582 B

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12/14/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

MATCHLINE SANTA FE STA. 720+00

MATCHLINE I-25 STA. 632+00

SB SANTA FE

NB SANTA FE

SB I-25

NB I-25

PC 716

PRC 721+55.38

PC 721+80.15

PC 810+56.94

PRC 725+64.88

PCC 730+19.66

620+00

625+00

630+00

C-SFN.PH2.2

C-SFN.PH2.3

C-SFN.PH2.4

C-SFS.PH2.2

(E)

HP1 16

HP1 14

3

MAPKEY

SANTA FE

ALAMEDA

I-25

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311LTG_PH2_SFLP-2.dgn	R-2	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted		1.3.2011	REVISION #2	KAT	Region 6 RLB
Unit Information Unit Leader Initials					
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00					

As Constructed	I-25/SANTA FE INTERCHANGE			Project No./Code
No Revisions:	SANTA FE ROADWAY LIGHTING PLAN			IM 0254-394
Revised:	Designer: KAT	Structure Numbers		16311
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12/14/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

Know what's below. Call before you dig.

SOUTH PLATTE RIVER

RAMP 4

MATCHLINE I-25 STA. 632+00

MATCHLINE I-25 STA. 645+00

SB SANTA FE

NB SANTA FE

SB I-25

NB I-25

RAMP 1

635+00

640+00

634+87.46 PT

820+00

825+00

PC 642+57.10

LCCB-15,17

LCCB-18,20

LCCB-14,16

HP1

WP2

(E)

MAPKEY

ALAMEDA

SANTA FE

I-25

0' 50' 100' 200'

Print Date: 12/14/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311LTG_PH2_SFLP-3.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	SANTA FE ROADWAY LIGHTING PLAN		IM 0254-394
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12.3.2010	REVISION #1	KAT		Revised:	Designer: KAT	Structure Numbers	16311
Unit Information Unit Leader Initials	R-2	1.3.2011	REVISION #2	KAT	Region 6 RLB	Void:	Detailer: ADC		
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00							Sheet Subset: LIGHTING	Subset Sheets: SFLP-03 of 22	Sheet Number 584 B

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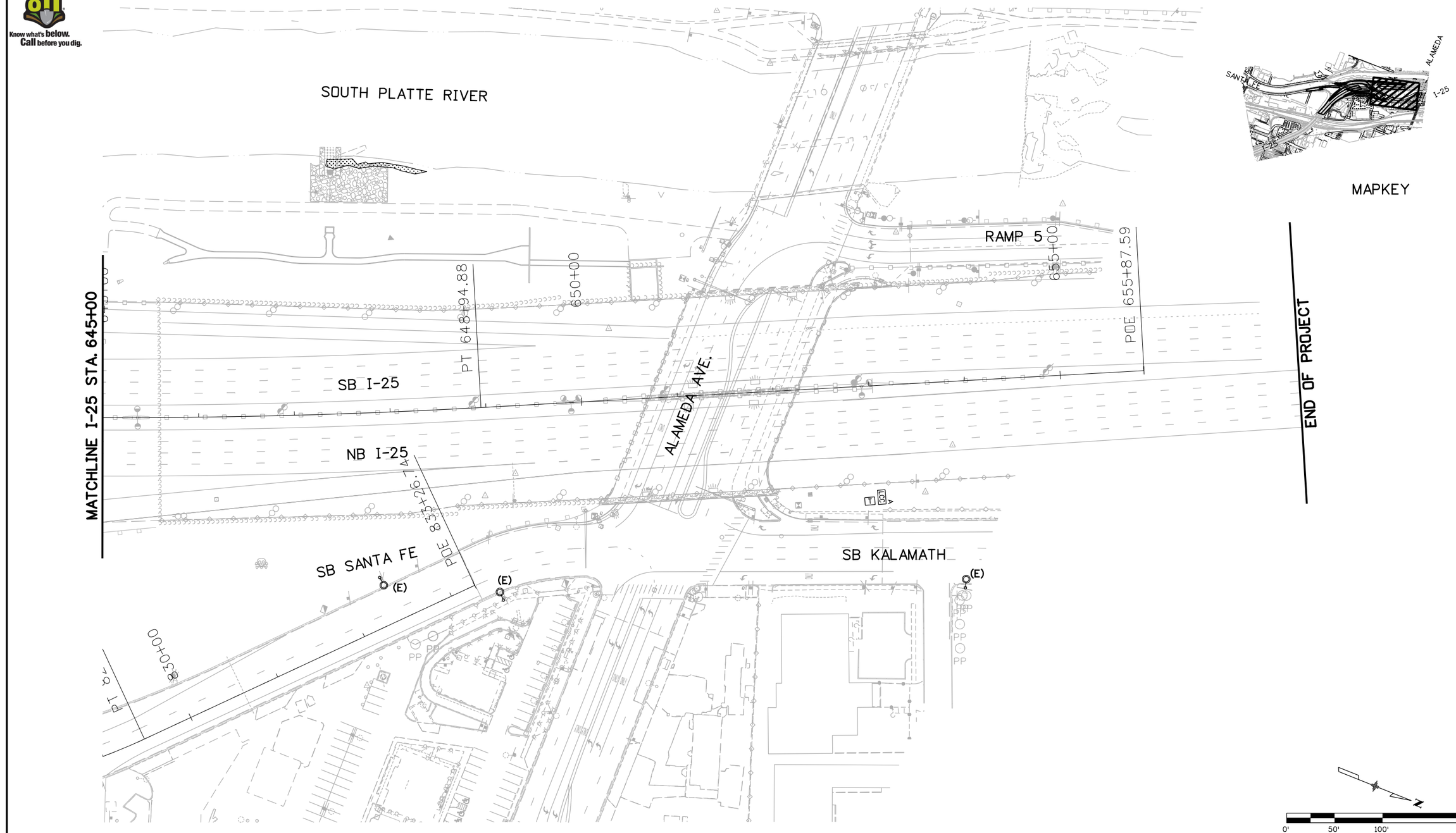

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Unit Information Unit Leader Initials	R-2 1.3.2011	REVISION #2	KAT	Denver, CO 80222	Void:
Scanlon Szynskie Scanlon Szynskie Group, Inc. 3045 S. Parker Road, Suite 225 Aurora, Co 80014-2950 303.696.2602 fax 303.696.0812 SSG PROJECT NO.: 07029.00				Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	

I-25/SANTA FE INTERCHANGE I-25 ROADWAY LIGHTING PLAN			Project No./Code
Designer: KAT	Structure Numbers		IM 0254-394
Detailer: ADC			16311
Sheet Subset: LIGHTING	Subset Sheets: SFLP-04 of 22		Sheet Number 585 B

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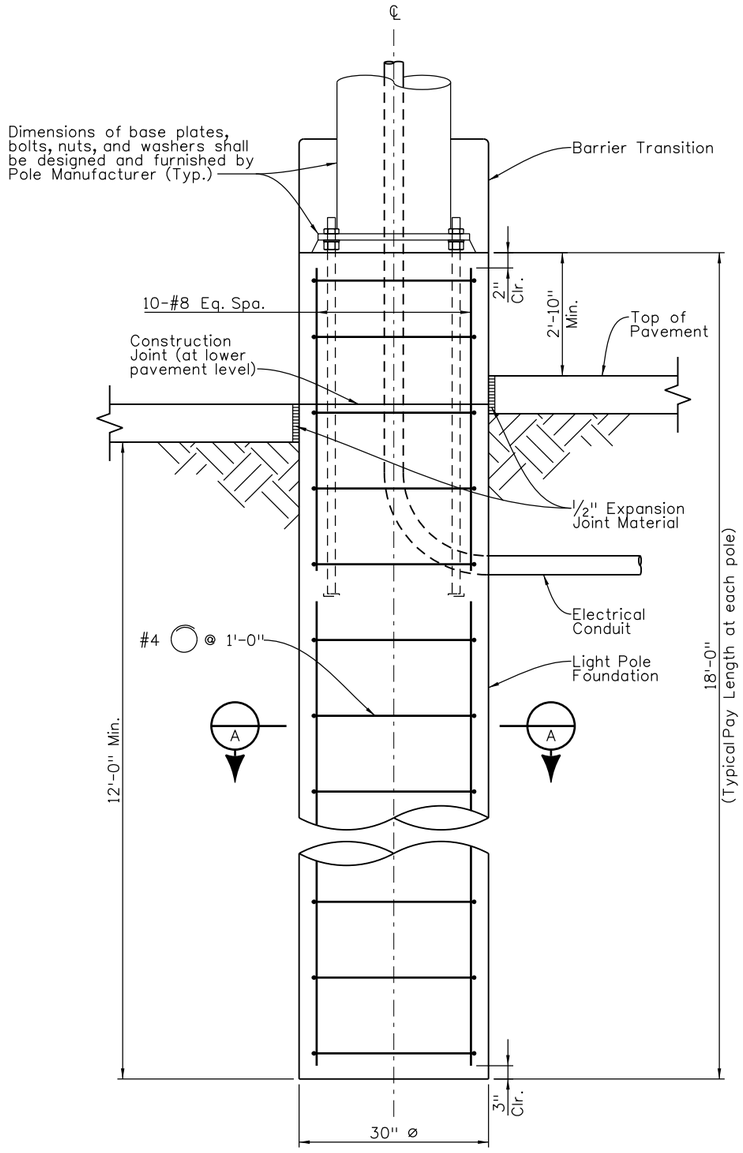
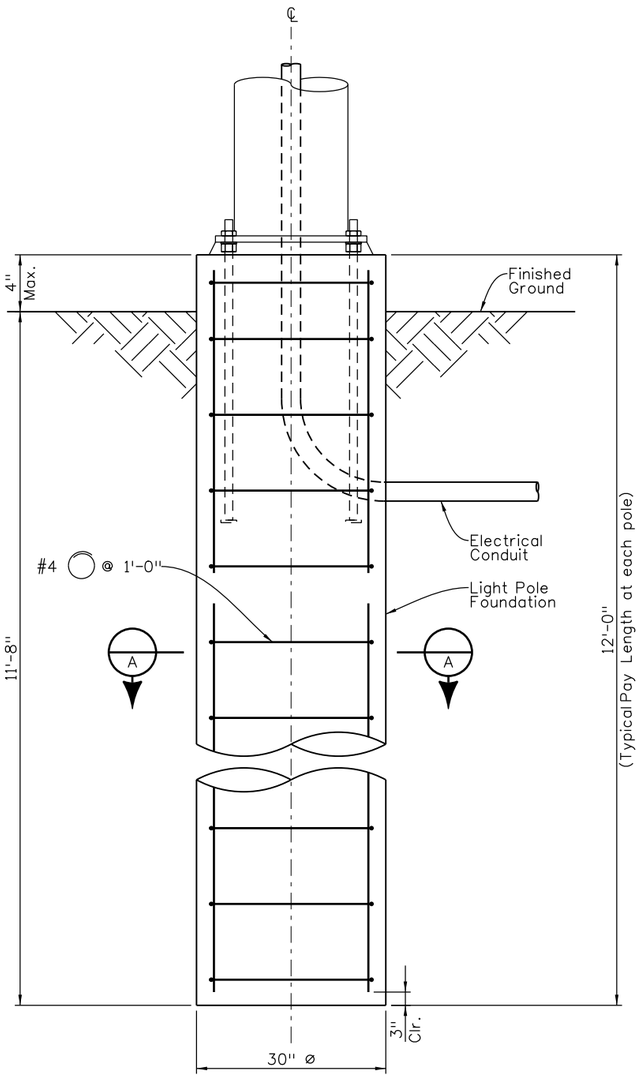
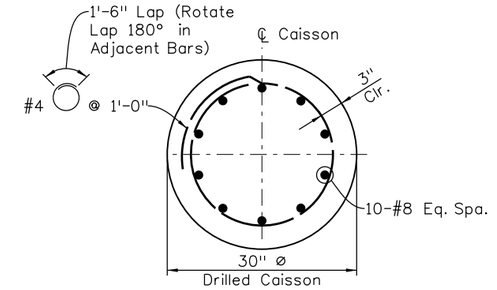


DRILLED CAISSON FOUNDATION
DETAIL - AT MEDIAN BARRIER



DRILLED CAISSON FOUNDATION
DETAIL - OFF ROADWAY



SECTION A

CAISSON NOTES:

1. Concrete shall be Class BZ with air entrainment.
2. The use of temporary casing & dewatering during drilling caissons may be required. The cost of temporary casing & dewatering shall not be paid for separately but shall be included in the work.

Design	INITIAL	DATE
Designed By	XXX	MM/YY
Checked By	XXX	MM/YY

Detail	INITIAL	DATE
Detailed By	KJS	07/09
Checked By	PRS	08/09

Quantities	INITIAL	DATE
Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)
MM/YY

Print Date: 10/20/2010
File Name: 16311LTG_PH2_FndDetails01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ELECTRICAL DETAILS

Designer: B. Marcato
Detailer: P. Stein
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LD-01 of 22

Project No./Code
BR 0252-407
17783
Sheet Number 586

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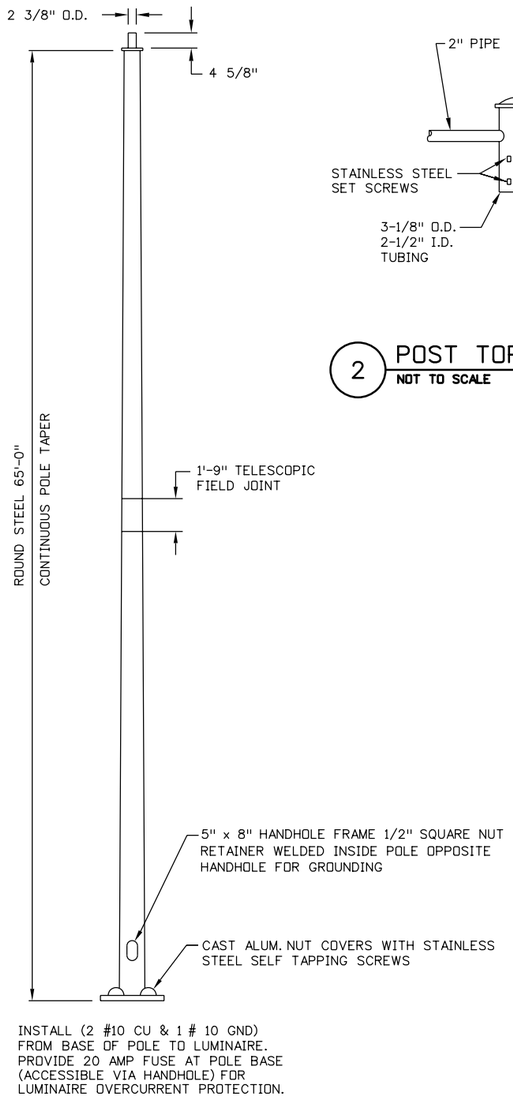
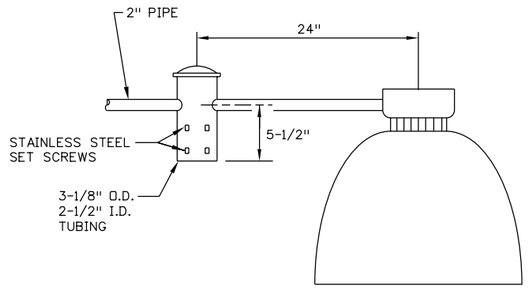
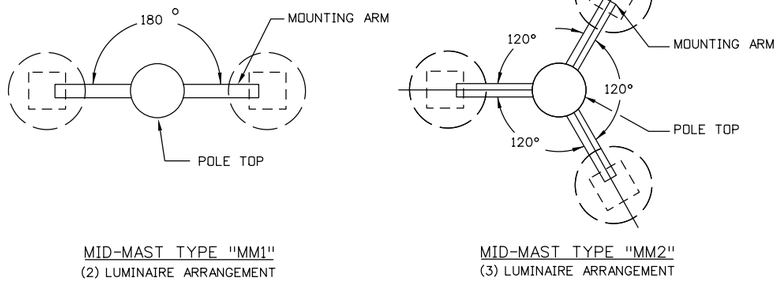
10/20/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl



1 MID-MAST POLE DETAIL
NOT TO SCALE



2 POST TOP DETAIL
NOT TO SCALE



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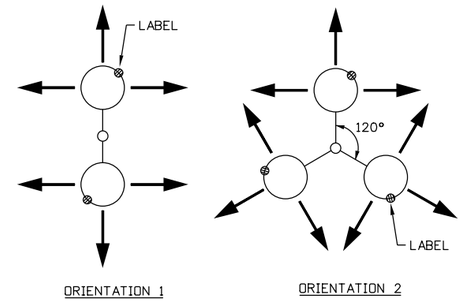
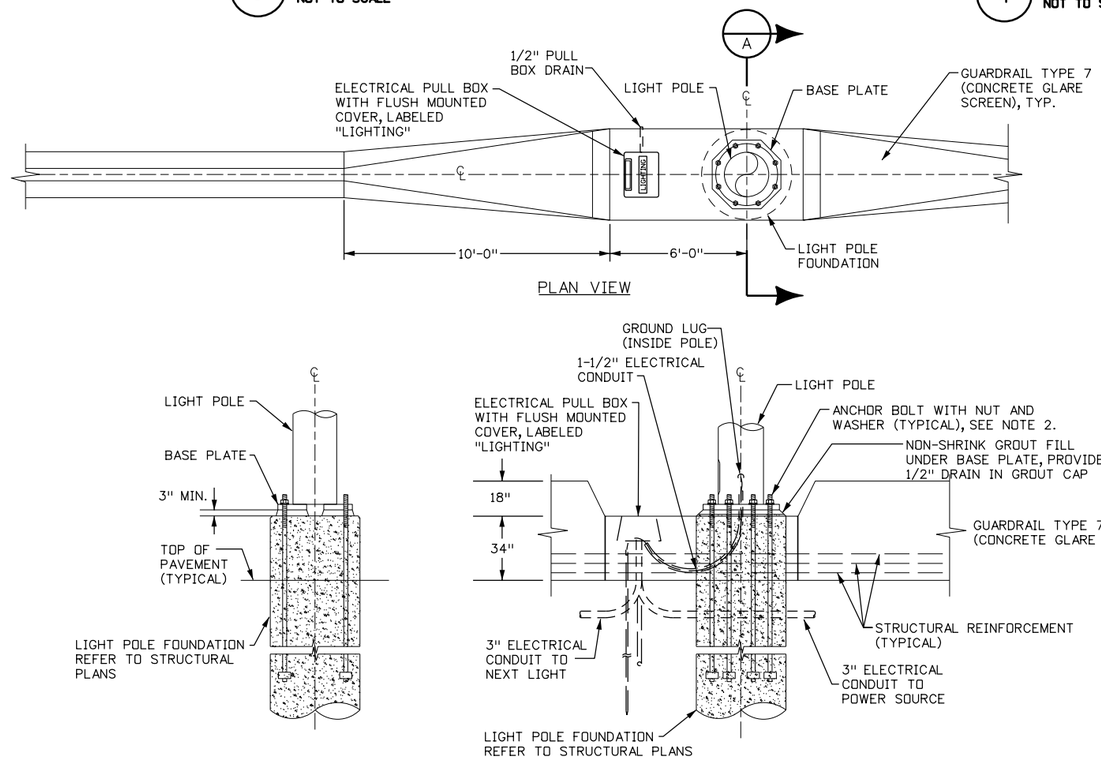
NOT TO SCALE



4 MID-MAST LUMINAIRE ORIENTATION DETAIL
NOT TO SCALE



5 MID-MAST POLE AT BARRIER DETAIL
NOT TO SCALE

NOTES:

1. FOUNDATION BOLT PATTERN IS SCHEMATIC. REFER TO M&S STANDARD PLANS FOR BOLT PATTERNS AND REINFORCEMENT LAYOUT.
2. NUTS AND WASHERS TO BE PLACED TOP AND BOTTOM OF BASE PLATE TO ALLOW FOR ADJUSTMENT.
3. ALL REINFORCEMENT SHALL BE EPOXY COATED PER STANDARD SPECIFICATIONS.
4. ALL REINFORCING STEEL SHALL HAVE 2" MIN. COVER.
5. INFORMATION NOT SHOWN SHALL BE PER CDOT M&S STANDARD PLANS FOR GUARDRAIL.
6. CONDUIT ROUTING SHOWN IS SCHEMATIC.

Print Date: 10/18/2010
File Name: 16311LTG_LD-2.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Scanlon Szynskie Group, Inc.
3045 S. Parker Road, Suite 225
Aurora, Co 80014-2950
303.696.2602 fax 303.696.0812
SSG PROJECT NO.: 07029.00

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ELECTRICAL DETAILS

Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LD-2 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 587

10/18/2010 1:18:06 PM N:\FELSBURG\125 Santa Fe\elec. drawings\16311\Phase 1.2 - 1.3\Lighting\Drawings\16311LTG_LD-2.dgn
CDOT-DefaultPrinter_XM.pltcfg CDOT-Pen table.tbl

NEW PANEL "B"

VOLTS: 240/120V,1PH,3W
MAINS: 200A M.L.O.
A.I.C.: 22KA

MTG: NEMA 3R SURFACE
MFGR: CH/OTE/SQD/GE
TYPE: BOLT-ON

DESCRIPTION	T	KVA	BKR	CKT#			BKR	KVA	T	DESCRIPTION
HOME DEPOT LTG	L	1.10	20A1P	1	•	2	40A / 2P	3.45	L	MID MAST LTG
HOME DEPOT LTG	L	0.82	20A1P	3	•	4		3.45	L	-
UNDERBRIDGE LTG	L	1.23	20A1P	5	•	6	30A / 2P	2.50	L	MID MAST LTG
UNDERBRIDGE LTG	L	0.88	20A1P	7	•	8		2.50	L	-
RAMP 1 LTG	L	1.38	20A1P	9	•	10	20A1P	1.65	L	RAMP 1 LTG
RAMP 1 LTG	L	1.10	20A1P	11	•	12	20A1P	1.65	L	RAMP 1 LTG
ITS POLE	O	0.50	20A1P	13	•	14	20A1P	1.65	L	SANTA FE LTG
SANTA FE LTG	L	0.82	20A1P	15	•	16	20A1P	1.65	L	SANTA FE LTG
SANTA FE LTG	L	0.82	20A1P	17	•	18	20A1P	0.53	L	UNDERBRIDGE LTG
SPACE				19	•	20	20A1P	0.53	L	UNDERBRIDGE LTG
SPACE				21	•	22				SPACE
SPACE				23	•	24				SPACE

LOAD KVA	LTG	OTHR	TOTAL
CONNECTED	27.7	0.5	28.2
NEC DEMAND	34.6	0.5	35.1
AMPS			146

PHASE KVA A = 14.8 B = 13.4
PHASE IMBALANCE (%) A/B = 10.4

EXISTING PANEL "A"

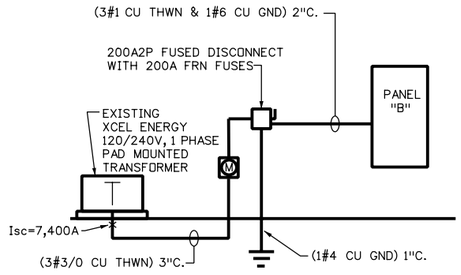
VOLTS: 240/120V,1PH,3W
MAINS: 125A M.L.O.
A.I.C.: 22KA

MTG: NEMA 3R SURFACE
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

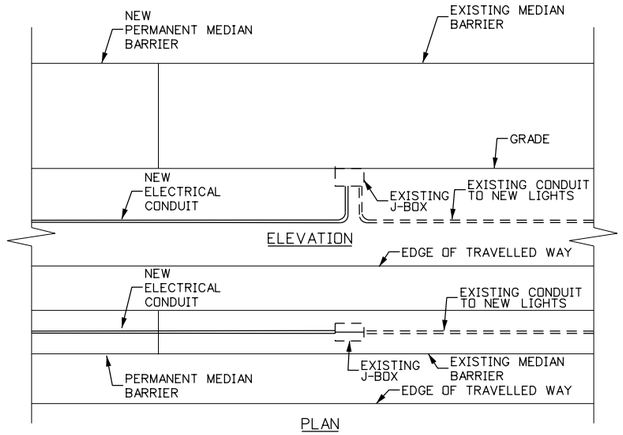
DESCRIPTION	T	KVA	BKR	CKT#			BKR	KVA	T	DESCRIPTION
MID MAST LIGHTING	L	2.88	30A / 2P	1	•	2		2.88	L	MID MAST LIGHTING
-	L	2.88		3	•	4		2.88	L	-
FUTURE MID MAST LG	L	2.30	30A / 2P	5	•	6		2.30	L	NEW MID MAST LG
-	L	2.30		7	•	8		2.30	L	-
UNDER BRIDGE LTG	L	1.38	20A1P	9	•	10	20A1P	0.18	R	GFCI RECEP
SPACE				11	•	12				SPACE

LOAD KVA	LTG	REC	TOTAL
CONNECTED	22.1	0.2	22.3
NEC DEMAND	27.6	0.2	27.8
AMPS			116

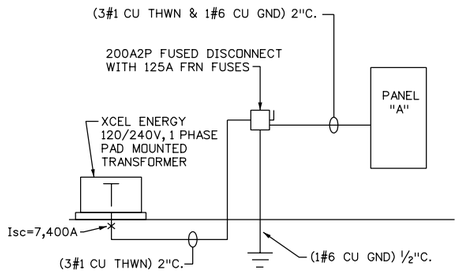
PHASE KVA A = 11.9 B = 10.4
PHASE IMBALANCE (%) A/B = 15.1



1 LIGHTING CONTROL CENTER "B" ONE-LINE DIAGRAM
NOT TO SCALE



2 MEDIAN CONDUIT EXTENSION DETAIL
NOT TO SCALE



3 EXISTING LIGHTING CONTROL CENTER "A" ONE-LINE DIAGRAM
NOT TO SCALE

NOTE:

COORDINATE THE USE OF THE EXISTING TRANSFORMER TO FEED THE NEW LCC WITH XCEL ENERGY. TRANSFORMER SIZE MAY NEED TO INCREASE.

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11/17/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-Pen Table.tbl

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Unit Information Unit Leader Initials

Scanlon Szynskie Group, Inc.
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SSG PROJECT NO.: 07029.00

R-1

Sheet Revisions

Date:	Comments	Init.
12.3.2010	REVISION #1	KAT

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
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Region 6 RLB

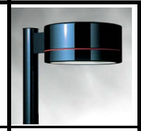
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ELECTRICAL ONE-LINE DIAGRAMS AND DETAILS

Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LD-3 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 588 A

LUMINAIRE SCHEDULE

KEY	IMAGE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	FINISH	MOUNTING	LAMPS QTY	LAMPS TYPE	VOLT	INPUT WATTS
HP1		CURVILINEAR LUMINAIRE ON 40' GALVANIZED ROUND STEEL POLE, TYPE III DISTRIBUTION	XCEL STANDARD OFFERING	CURVILINEAR - XCEL # 213461	FEDERAL GREEN	40' POLE	1	250 HPS	120	275
WP2		XCEL ENERGY PENDANT MOUNTED FLOODLIGHT WITH VALMONT MOUNTING BRACKET	XCEL STANDARD OFFERING	XCEL CAT # XC53993	BRONZE	UNDERDECK - REFER TO BRIDGE PLANS	1	250W HPS	120	275
MM1		MEDIAN MOUNTED (2) HEAD MID MAST LUMINAIRE WITH ROUND STEEL POLE	HOLOPHANE	LUMINAIRE - HMSP- C10HP-24-S-9 POLE - 65' ROUND TAPERED STEEL	GRAY	65' POLE	2	1000W HPS	240	2250
MM2		MEDIAN MOUNTED (3) HEAD MID MAST LUMINAIRE WITH ROUND STEEL POLE	HOLOPHANE	LUMINAIRE - HMSP- C10HP-24-S-9 POLE - 65' ROUND TAPERED STEEL	GRAY	65' POLE	3	1000W HPS	240	3375
CH1		COBRA HEAD STYLE LUMINAIRE ON A 40' ROUND TAPERED STEEL GALVANIZED POLE WITH 8'-0" MAST ARM	XCEL STANDARD OFFERING	LUMINAIRE - COBRA HEAD XCEL #54042 WITH 8'-0" MAST ARM XCEL #213376	GRAY	40' POLE, 8' MAST ARM	1	250W HPS	120	275

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11/17/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

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Unit Information Unit Leader Initials

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Void:

I-25/SANTA FE INTERCHANGE
ELECTRICAL SCHEDULES

Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers
Subset Sheets: LD-4 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 589 A

TABULATION OF QUANTITIES

STATION / LOCATION	LUMINAIRE HIGH PRESSURE SODIUM (250W) CURVILINEAR Type "HP1" Pay Item # 613-70250	LUMINAIRE HIGH PRESSURE SODIUM (250W) COBRA HEAD Type "CH1" Pay Item # 613-70250	UNDERBRIDGE LUMINAIRE 250W HPS Type "WP2" Pay Item # 613-72150	UNDERBRIDGE LUMINAIRE MOUNTING BRACKET ** Pay Item # 613-72150	MID MAST LUMINAIRE 1000W HPS Type "MM1" & "MM2" Pay Item # 613-71000	LIGHT STD FOUNDATION Pay Item # 613-40010	LIGHT STD FOUNDATION CAISSON Pay Item # 503-00030	MID MAST ROUND STEEL POLE 65 FOOT Pay Item # 613-34700	LIGHT STD 40' ROUND STEEL GALV. POLE Pay Item # 613-32400	LIGHT STD STEEL 8' MAST ARM *** Pay Item #	LIGHTING CONTROL CABINET 200A2P Pay Item # 613-50100	2 INCH ELECTRICAL CONDUIT Pay Item # 613-00100	3 INCH ELECTRICAL CONDUIT Pay Item # 613-00300	ELECTRICAL CONNECTION ITS POLE ****	REMOVAL OF LUMINAIRE (UNDERBRIDGE) ***** Pay Item # 202-00750	REMOVAL OF LIGHT STANDARD ******	REMOVAL OF CONCRETE FOOTING LIGHT STD FOUNDATION Pay Item # 202-00900	ELECTRICAL WIRING Pay Item # 613-10000
	EA	EA	EA	EA	EA	EA	LF	EA	EA	EA	EA	LIN FT	LIN. FT	EA	EA	EA	EA	LUMP SUM
I-25 LIGHTING PLANS																		
STA. 622+14.1					2		12	1					400					
STA. 625+85.1					2		12	1					400					
STA. 629+62.1					3		12	1					200					
STA. 633+60.8, 133.3 R											1							
STA. 625+67.4, 123.8 R		1				1			1	1		200						
STA. 627+41.1, 143.4 R		1				1			1	1		175						
STA. 629+9.2, 166.9 R		1				1			1	1		200						
STA. 630+91.5, 205.1 R		1				1			1	1		150						
STA. 632+36.3, 233 R		1				1			1	1		250						
STA. 636+41.4, 75.1 L					3		12	1					550					
STA. 640+91.7					3		12	1					500					
STA. 632+36.3, 234.6 R		1				1			1	1		250						
STA. 634+27.3, 243.8 R		1				1			1	1		200						
STA. 635+72.2, 363.6 R		1				1			1	1		250						
STA. 635+62.3, 249.2 R		1				1			1	1		150						
STA. 636+55.6, 328.2 R		1				1			1	1		175						
STA. 633+27.7, 119.8 R					3		12	1					300					
SANTA FE LIGHTING PLANS																		
STA. 620+31.7, 76.7 L	1					1			1			200						
STA. 621+98.4, 102.1 L	1					1			1			225						
STA. 623+82, 118.2 L	1					1			1			225						
STA. 634+83, 163.4 L	1					1			1			250						
STA. 636+37.1, 162.6 L	1					1			1			175						
STA. 638+23.5, 158 L	1					1			1			200						
STA. 640+31.8, 138.8 L	1					1			1			225						
STA. 642+34.7, 128 L	1					1			1			225						
STA. 644+67.5, 126.6 L	1					1			1			225						
STA. 722+81.8, 41.4 R	1					1			1			150						
STA. 723.86.9, 79.2 R	1					1			1			200						
STA. 725+53, 30.7 R	1					1			1			200						
STA. 727+38.3, 31 R	1					1			1			175						
STA. 729+8.7, 30.6 R	1					1			1			475						
STA. 731+7.67, 47.5 R			1	1														
STA. 731+50, 62.4 R			1	1														
STA. 732+20.4, 66.3 R			1	1														
STA. 732+63.6, 69.5 R			1	1														
STA. 733+56.3, 27.7 R	1					1			1			225						
STA. 739+14, 68.8 L	1					1			1			225						
STA. 739+66.9, 38.4 R	1					1			1			275						
STA. 740+87.4, 31.8 R	1					1			1			225						
STA. 742+92.1, 25.8 R	1					1			1			125						
STA. 744+5.6, 26.7 R	1					1			1			125						
STA. 745+16.8, 26.1 R	1					1			1			125						
STA. 814+24.6, 31.4 L	1					1			1			200						
STA. 815+77.6, 30.6 L	1					1			1			225						
STA. 816+67.5, 82.3 L			1	1														
STA. 817+20.6, 70.6 L			1	1														
STA. 817+72.5, 55.7 L			1	1														
STA. 818+20.1, 37.5 L			1	1														
RAMP 1 LIGHTING PLANS																		
STA. 106+58.7, 40.1 R		1				1			1	1								
STA. 107+86.5, 40.1 R		1				1			1	1								
STA. 109+56.7, 40.1 R		1				1			1	1								
STA. 111+35.5, 40.1 R		1				1			1	1								
STA. 113+24.6, 33.1 R		1				1			1	1								
STA. 115+00														1				
STA. 115+00, 32.7 R		1				1			1	1								
STA. 115+90.9, 12.5 R			1	1														
STA. 116+81.1, 33 R		1				1			1	1								
STA. 117+57.9, 12.5 R			1	1														
STA. 118+20.4, 33 R		1				1			1	1								
STA. 118+83.4, 12.5 R			1	1														
STA. 118+98.9, 12.5 R			1	1														
STA. 119+79.8, 12.5 R			1	1														
STA. 119+76.4, 33 R		1				1			1	1								
STA. 121+72.6, 33 R		1				1			1	1								
STA. 123+22.7, 33 R		1				1			1	1								
STA. 124+52.2, 33 R		1				1			1	1								
STA. 126+29.1, 33 R		1				1			1	1								
STA. 128+06.1, 33 R		1				1			1	1								
STA. 129+39, 33 R		1				1			1	1								
STA. 130+78.2, 34 R		1				1			1	1								
STA. 132+54.2, 36.3 R		1				1			1	1								
STA. 134+25.9, 36 R		1				1			1	1								
STA. 135+68.6, 35 R		1				1			1	1								
STA. 127+73.4, 14.5 R			1	1														
STA. 128+85.3, 11.8 R			1	1														
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Unit Information Unit Leader Initials

Scanlon Szynskie Group, Inc.
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Sheet Revisions		
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I-25/SANTA FE INTERCHANGE
ELECTRICAL TABULATIONS

Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LT-1 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 590 A

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11/19/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

TABULATION OF QUANTITIES

STATION / LOCATION	LUMINAIRE HIGH PRESSURE SODIUM (250W) CURVILINEAR Type "HP1" Pay Item # 613-70250	LUMINAIRE HIGH PRESSURE SODIUM (250W) COBRA HEAD Type "CH1" Pay Item # 613-70250	UNDERBRIDGE LUMINAIRE 250W HPS Type "WP2" Pay Item # 613-72150	UNDERBRIDGE LUMINAIRE MOUNTING BRACKET ** Pay Item # 613-72150	MID MAST LUMINAIRE 1000W HPS Type "MM1" & "MM2" Pay Item # 613-71000	LIGHT STD FOUNDATION Pay Item # 613-40010	LIGHT STD FOUNDATION CAISSON Pay Item # 503-00030	MID MAST ROUND STEEL POLE 65 FOOT Pay Item # 613-34700	LIGHT STD 40' ROUND STEEL GALV. POLE Pay Item # 613-32400	LIGHT STD STEEL 8' MAST ARM *** Pay Item #	LIGHTING CONTROL CABINET 200A2P Pay Item # 613-50100	2 INCH ELECTRICAL CONDUIT Pay Item # 613-00100	3 INCH ELECTRICAL CONDUIT Pay Item # 613-00300	ELECTRICAL CONNECTION ITS POLE ****	REMOVAL OF LUMINAIRE (UNDERBRIDGE) ***** Pay Item # 202-00750	REMOVAL OF LIGHT STANDARD ******	REMOVAL OF CONCRETE FOOTING LIGHT STD FOUNDATION Pay Item # 202-00900	ELECTRICAL WIRING Pay Item # 613-10000
	EA	EA	EA	EA	EA	EA	LF	EA	EA	EA	EA	LIN FT	LIN. FT	EA	EA	EA	EA	LUMP SUM
EXISTING LIGHTING PLANS																		
STA. 1632+63.1, 9.7 R																1	1	
STA. 1632+81.4, 125.8 L																1	1	
STA. 1634+46.7, 189.9 R																1	1	
STA. 1634+57.5, 23.2 R																1	1	
STA. 1634+58.9, 131.1 R																1	1	
STA. 1634+96.6, 177.6 R															1			
STA. 1635+2.7, 11.9 L																1	1	
STA. 1636+29.9, 169.7 R																1	1	
STA. 1636+41.8, 125.9 R															1			
STA. 2638+9.1, 59.3 R																1	1	
STA. 2639+78.9, 60 R																1	1	
STA. 2641+23.5, 64.7 R																1	1	
STA. 2644+50.5, 91.1 R																1	1	
STA. 619+71.7, 120.6 L																1	1	
STA. 620+73.4, 144.3 L																1	1	
STA. 621+54.6, 367.8 L																1	1	
STA. 622+2.3, 255.4 L																1	1	
STA. 622+26.3, 74 R																1	1	
STA. 622+56.2, 175.6 L																1	1	
STA. 624+6.7, 90.4 R																1	1	
STA. 626+19.4, 74.1 L																1	1	
STA. 626+3.2, 146.9 R																1	1	
STA. 626+61.1, 123 R																1	1	
STA. 626+98.25, 7 L																1	1	
STA. 627+96.9, 18.9 R																1	1	
STA. 628+29, 84.1 R																1	1	
STA. 628+49.3, 154.7 R																1	1	
STA. 628+70.7, 70.1 L																1	1	
STA. 629+2.4, 54.9 R																1	1	
STA. 630+35.4, 29.8 L																1	1	
STA. 630+4.3, 105.8 R																1	1	
STA. 630+40.2, 81.1 R																1	1	
STA. 630+43.9, 186.5 R																1	1	
STA. 631+91.9, 127.8 R																1	1	
STA. 632+13.7, 2.9 L																1	1	
STA. 632+2.1, 104.6 R																1	1	
STA. 632+44.9, 202.1 R																1	1	
STA. 633+45.2, 111.9 L																1	1	
STA. 634+71.5, 151.9 L																1	1	
STA. 635+16.7, 99.2 L																1	1	
STA. 635+45.2, 23.5 L																1	1	
STA. 636+44.6, 115.7 L																1	1	
STA. 637+17.4, 7.6 L																1	1	
STA. 638+17.1, 93.8 L																1	1	
STA. 639+91.8, 82.5 L																1	1	
STA. 641+37.1, 79.6 L																1	1	
STA. 643+47.2, 97.2 L																1	1	
STA. 722+85.5, 58.9 R																1	1	
STA. 723+90.7, 34.9 R																1	1	
STA. 724+8.1, 23.1 L																1	1	
STA. 725+38.9, 54.5 R																1	1	
STA. 725+47.4, 4.9 L																1	1	
STA. 728+87.3, 14.5 L																1	1	
STA. 729+90.8, 58.9 R																1	1	
STA. 730+54.2, 21.8 L																1	1	
STA. 737+42, 130.8 R																1	1	
STA. 739+50.9, 80.3 R																1	1	
STA. 740+12.7, 35.9 R																1	1	
STA. 741+13.9, 98.9 L																1	1	
STA. 741+81.9, 22.8 L																1	1	
STA. 743+19.5, 25.1 L																1	1	
STA. 806+22.7, 28.1 R																1	1	
MISC																		
ELECTRICAL WIRING																		1
TOTAL TABULATION #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	60	60	1

* THE CDOT CONTRACTOR SHALL INSTALL A SPLICE BOX AT THE BASE OF EACH LIGHT STANDARD. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
** THE MOUNTING BRACKET FOR THE UNDERBRIDGE LUMINAIRE SHALL BE INCLUDED WITH THE UNDERBRIDGE LUMINAIRE PAY ITEM. SHOWN FOR INFORMATION ONLY.
*** 8' MAST ARM SHALL BE INCLUDED WITH THE LIGHT STANDARD 40' STEEL GALVANIZED POLE. SHOWN FOR INFORMATION ONLY.
**** SHOWN FOR INFORMATION ONLY. REFER TO THE ITS PLANS FOR ADDITIONAL INFORMATION.
***** PAID FOR THROUGH FORCE ACCOUNT ITEM.
****** XCEL ENERGY SHALL REMOVE THE POLE AND LUMINAIRE AS NOTED. THE CDOT CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE ASSOCIATED FOOTING. REFER TO THE GENERAL NOTES FOR ADDITIONAL INFORMATION.

TEMPORARY LIGHTING NOTES:

1 THE USE OF EXISTING LIGHT STANDARDS AND LUMINAIRES THAT ARE BEING REMOVED AS THE TEMPORARY LIGHT SOURCE IS NOT PERMITTED BY CDOT OR XCEL ENERGY.
2 THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW LIGHT STANDARDS, FOUNDATIONS, AND LUMINAIRES FOR USE AS TEMPORARY LIGHT STANDARDS.
3 AT ALL TIMES, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS LIGHTING OVER THE CURRENT PHASE OF WORK. AT NO TIME CAN (2) ADJACENT LIGHTS BE OUT AT THE SAME TIME.
ADDITIONAL TEMPORARY LIGHTING SHALL BE PROVIDED FOR ALL DETOURS, LANE SHIFTS, ETC. TO HELP THE PUBLIC NAVIGATE THE DETOUR.
THE INTENT OF THE TEMPORARY LIGHTING IS THAT NO AREA OF WORK SHALL BE LEFT WITHOUT LIGHTING DURING CONSTRUCTION.
4 THE CONTRACTOR SHALL BE ALLOWED TO UTILIZE THE NEW "TEMPORARY" LIGHT STANDARDS PROVIDED AS PART OF THIS PROJECT THROUGHOUT THE 9 CONSTRUCTION PHASES.
5 XCEL ENERGY REQUIRES A MINIMUM 2"C. FOR ALL TEMPORARY LIGHTING BRANCH CIRCUITS AND FEEDERS.
6 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING THE TEMPORARY LIGHTING SCHEMES REQUIRED FOR THIS PROJECT. TEMPORARY LIGHTING SCHEMES SHALL BE APPROVED BY CDOT PRIOR TO IMPLEMENTATION.

Print Date: 11/19/2010
File Name: 16311LTG_LT-2.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Scanlon Szynskie Group, Inc.
3045 S. Parker Road, Suite 225
Aurora, Co 80014-2950
303.696.2602 fax 303.696.0812
SSG PROJECT NO.: 07029.00

R-1

Sheet Revisions

Date:	Comments	Init.
12.3.2010	REVISION #1	KAT

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ELECTRICAL ONE-LINE DIAGRAMS AND DETAILS

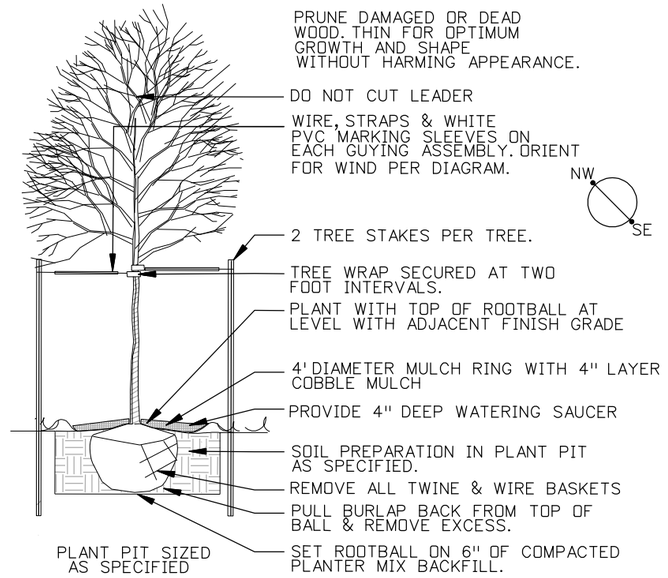
Designer: KAT
Detailer: ADC
Sheet Subset: LTG
Structure Numbers:
Subset Sheets: LT-2 of 22

Project No./Code
IM 0254-394
16311
Sheet Number 591 A

amy 1:29:04 PM N:\FELSBURG\125 Santa Fe\elec drawings\16311\Phase 1.2 - 1.3\Lighting\Drawings\16311LTG_LT-2.dgn
11/19/2010 CDOT-DefaultPrinter_XM.pltcfg CDOT-PenTable.tbl

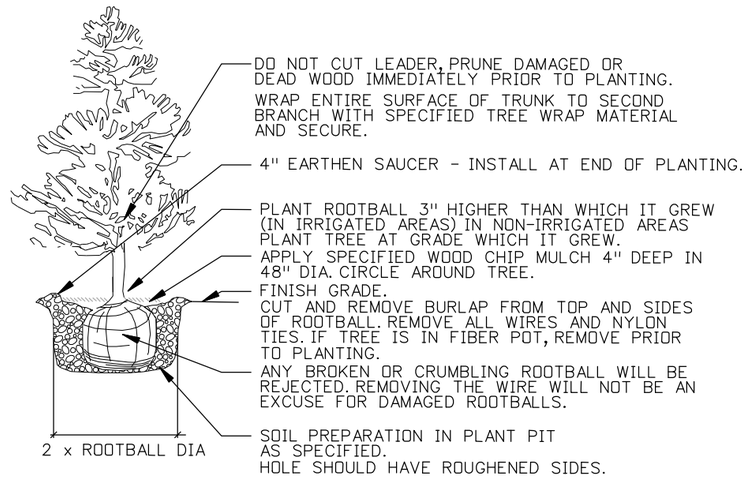
GENERAL LANDSCAPE NOTES:

1. ALL ROADSIDE TREE RINGS SHALL HAVE A 48" DIAMETER TREE RING WITH A 4" LAYER OF CEDAR MULCH. NO LANDSCAPE FABRIC OR EDGING IS REQUIRED.
2. STAKE ALL PLANT LOCATIONS FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. LANDSCAPE ESTABLISHMENT PERIOD IS ONE YEAR FOLLOWING FINAL ACCEPTANCE. ALL NEW TREES SHALL BE MAINTAINED FOR ONE YEAR BY THE CONTRACTOR FOLLOWING FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE MANUAL WATERING PLANT MATERIAL PROPERLY IN ACCORDANCE WITH THE SPECIFICATIONS, REMOVING DEAD BRANCHES, WEEDING AND KEEPING THE AREA FREE OF TRASH.
4. ALL TREE PITS AREAS SHALL RECEIVE 4 CUBIC YARDS PER 1000 SQUARE FEET OF AMENDMENTS, OR 20% OF BACKFILL VOLUME.
5. RESTORE ANY DISTURBED AREAS IN EXISITNG SEEDED AREAS THAT HAVE BEEN DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS.
6. PLANT LOCATIONS AND SPACING SHALL PERMIT NORMAL PLANT DEVELOPMENT WITHOUT UNDUE CROWDING OR TRIMMING.
7. PROVIDE TREES THAT ARE WELL ESTABLISHED AND ROOTED WITH NOT LESS THAN THE MINIMUM NUMBER AND LENGTH OF BRANCHES REQUIRED BY THE COLORADO NURSERY ACT FOR THE SIZE INDICATED.



LANDSCAPE SCHEDULE

ITEM NO.	DESCRIPTION	UNIT	TOTAL
212-00048	SOIL PREPARATION (SPECIAL)	CY	7
213-00008	MULCHING (WOOD CHIP)	CF	6
214-00000	LANDSCAPE MAINTENANCE	LS	1
214-00230	DECIDUOUS TREE (3 INCH CALIPER)	EA	16
214-00506	EVERGREEN TREE (6'FT.)(BALL AND BURLAP)	EA	17



LANDSCAPE LEGEND

SYMBOL	KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	WATER USE ZONE	HEIGHT
	DECIDUOUS SHADE TREE							
	CO	6	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CAL.	SEE PLAN	LOW	60'
	QB	10	SWAMP WHITE OAK	QUERCUS BICOLOR	3" CAL.	SEE PLAN	LOW	50'
	EVERGREEN TREE							
	JM	7	ONE SEED JUNIPER	JUNIPERUS MONOSPERMA	6' HT.	SEE PLAN	VERY LOW	30'
	PE	10	PINON PINE	PINUS EDULIS	6' HT.	SEE PLAN	VERY LOW	30'

Print Date: 10/18/2010
File Name: 16311_LAND_ENVI LND NT01.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
LANDSCAPE GENERAL NOTES

Designer: PKM
Detailer: PAF
Sheet Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
BR 0252-407
17783
Sheet Number 592

Pamela Foster 11:45:08 AM Z:\PROJECTS\FHU\I-25 Santa Fe\Alameda\16311\2010 CADD PH2\LANDSCAPE_ENVIRONMENTAL\DRAWINGS\16311_LAND_ENVI LND NT01.dgn
10/18/2010 CDOT-PDFdriver.plt CDOT-PenTable.tbl

LANDSCAPE LEGEND

- DECIDUOUS SHADE TREE
- EVERGREEN TREE

MATCHLINE SEE SHEET 2 OF 3

Print Date: 10/18/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311_LAND_ENVI LND PL01.dgn	Date: / Comments / Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: 1:40 Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE
Landscape Plan

Designer: PKM	Structure Numbers		Project No./Code: BR 0252-407
Detailer: PAF			17783
Sheet Subset: LANDSCAPE	Subset Sheets: 1 of 3		Sheet Number 593

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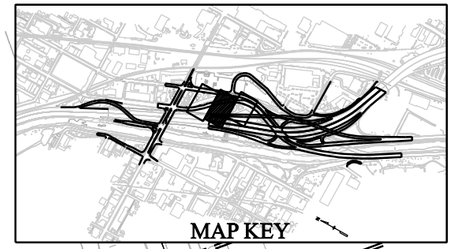
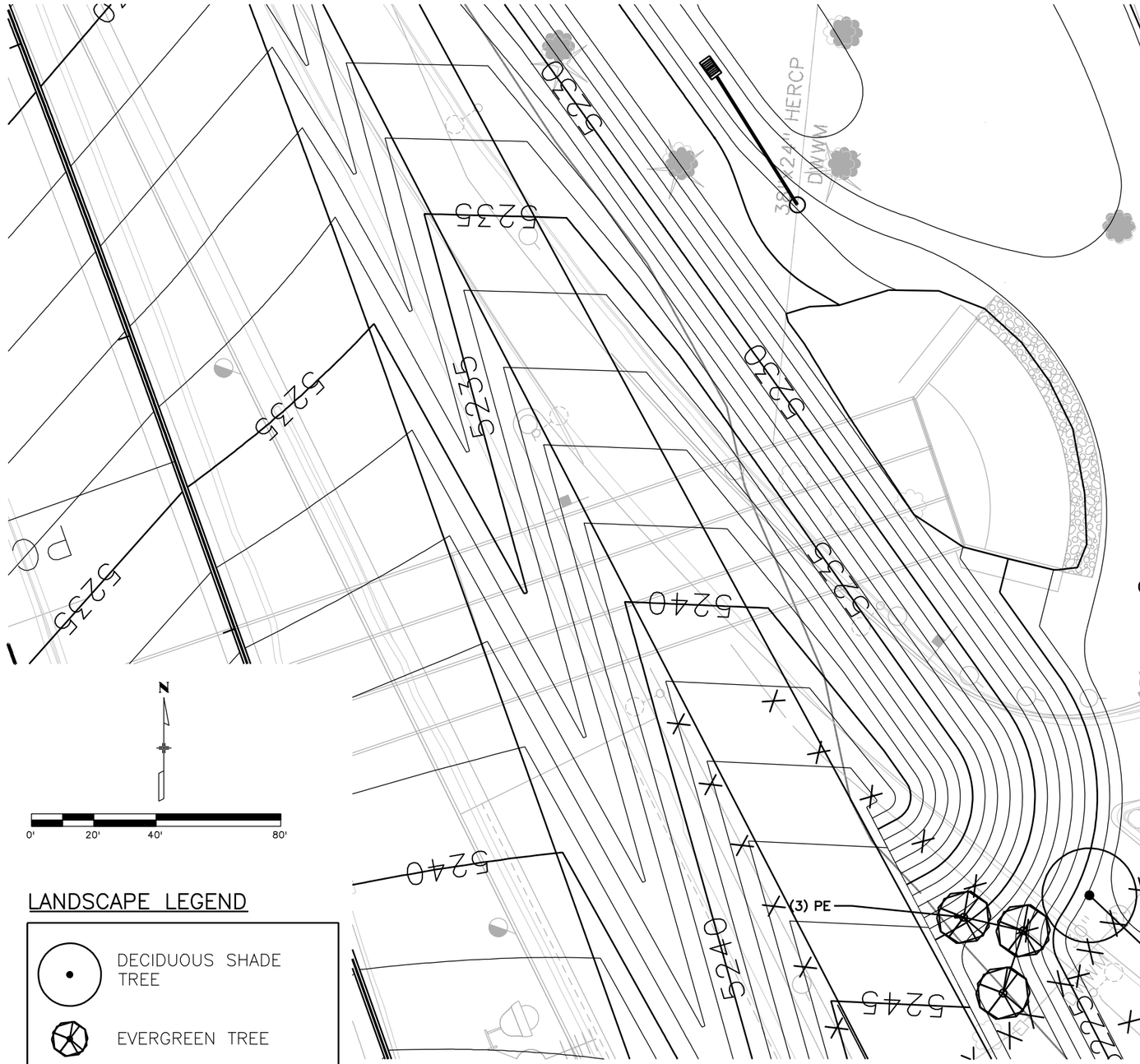
10/18/2010 CDOT-PDFdriver.plt CDOT-PenTable.tbl

MATCHLINE SEE SHEET 1 OF 3





LANDSCAPE LEGEND

DECIDUOUS SHADE TREE

EVERGREEN TREE

MATCHLINE SEE SHEET 3 OF 3

Print Date: 10/18/2010
File Name: 16311_LAND_ENVI LND PL01.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
Landscape Plan

Designer: PKM
Detailer: PAF
Sheet Subset: LANDSCAPE
Structure Numbers:
Subset Sheets: 2 of 3

Project No./Code
BR 0252-407
17783
Sheet Number 594

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10/18/2010 CDOT-PDFdriver.plt CDOT-PenTable.tbl

MATCHLINE SEE SHEET 2 OF 3

(3) JM

(2) QB

(3) PE

MAP KEY

N

0' 20' 40' 80'

LANDSCAPE LEGEND

DECIDUOUS SHADE TREE

EVERGREEN TREE

Print Date: 10/18/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311_LAND_ENVI LND PL01.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:40 Vert. Scale: As Noted					Region 6 RLB
Unit Information Unit Leader Initials					
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE Landscape Plan			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: PKM	Structure Numbers		17783
Void:	Detailer: PAF			Sheet Number 595
	Sheet Subset: LANDSCAPE	Subset Sheets: 3 of 3		

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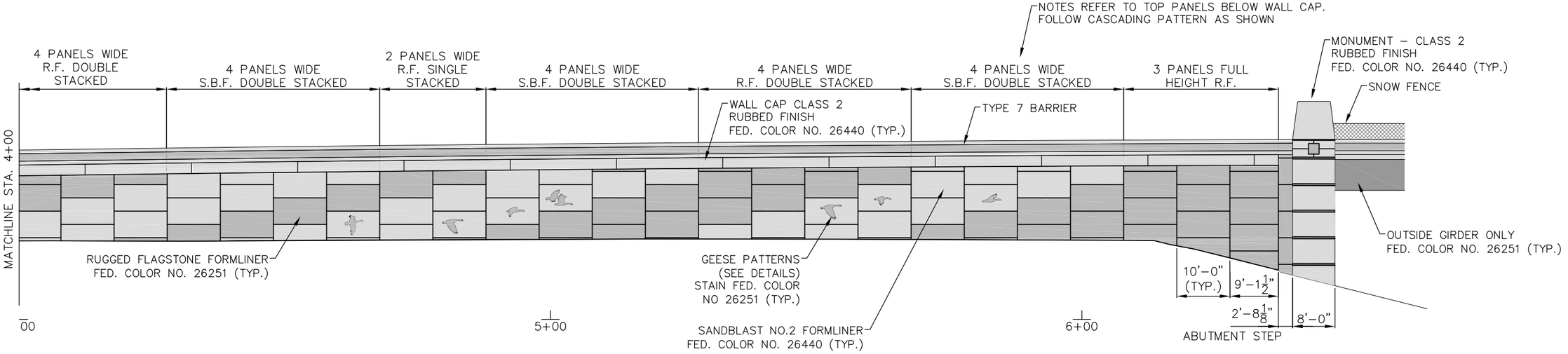

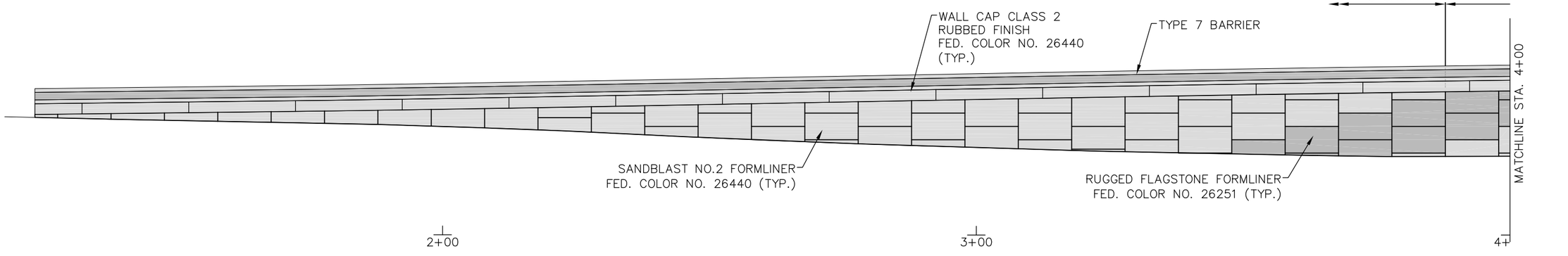

I-25 NB WALL 1
(STR. NO. WALL F-16-DW)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

pkm design group, inc.
7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
www.pkmdg.com

Print Date: 10-18-10	Sheet Revisions		
File Name: 16311 WALL SHEETS.DWG	Date:	Comments	Init.
Horiz. Scale: Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
WALL ELEVATIONS

Designer: PKM
Detailer: PAF
Sheet Subset:
Structure Numbers:
Subset Sheets: 1 of 6

Project No./Code
IM 0254-394
16311
Sheet Number 596

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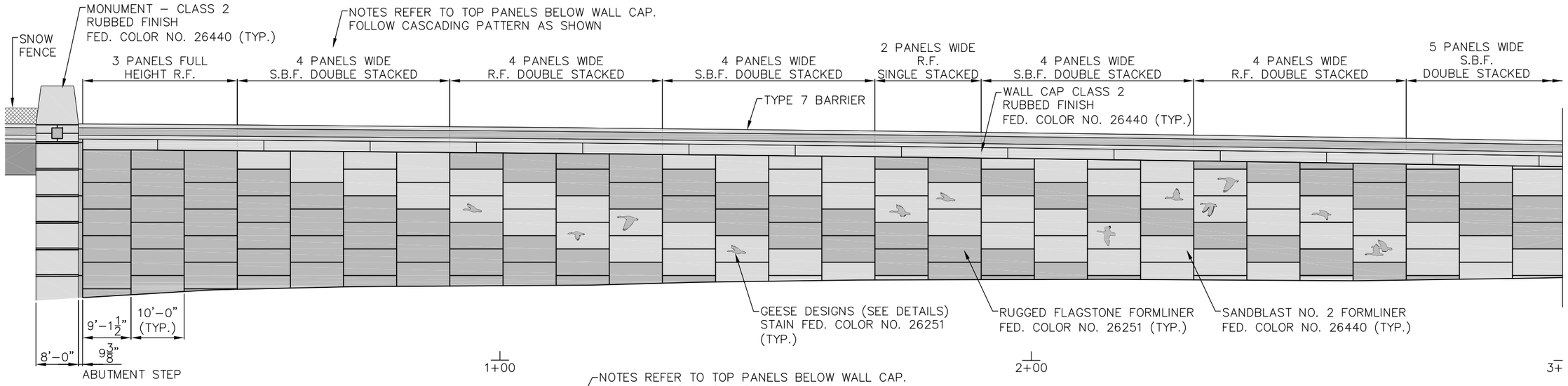

I-25 SB WALL 1
(STR. NO. F-16-XS)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

pkm design group, inc.
7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
www.pkmdg.com

Print Date: 10-18-10	Sheet Revisions		
File Name: 16311 WALL SHEETS.DWG	Date:	Comments	Init.
Horiz. Scale: Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 SEPTEMBER, 2010 RLB

As Constructed	I-25/SANTA FE INTERCHANGE WALL ELEVATIONS			Project No./Code
No Revisions:				IM 0254-394
Revised:	Designer: PKM	Structure Numbers		16311
Void:	Detailer: PAF			Sheet Number 597
	Sheet Subset:	Subset Sheets: 2 of 6		

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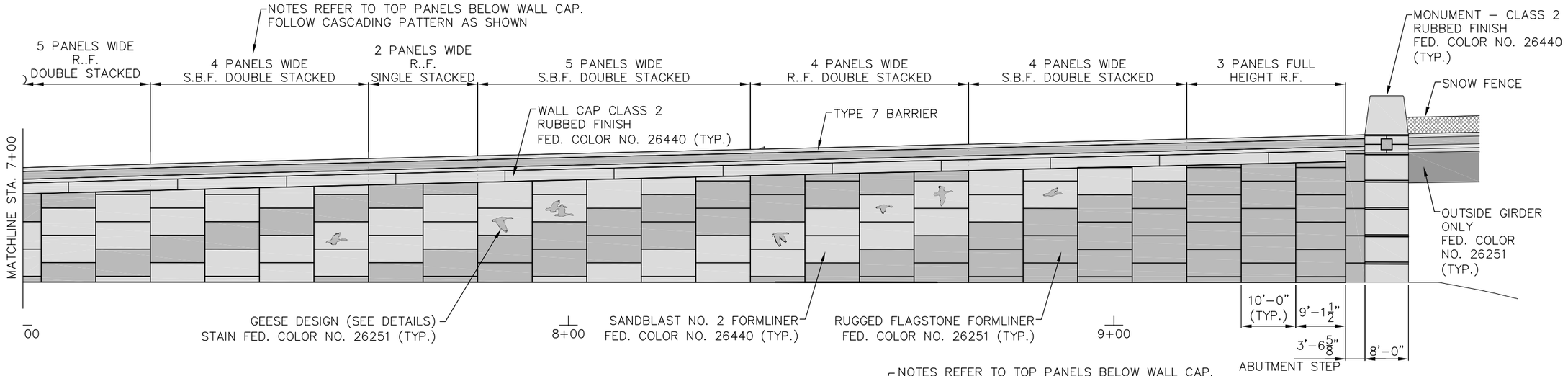

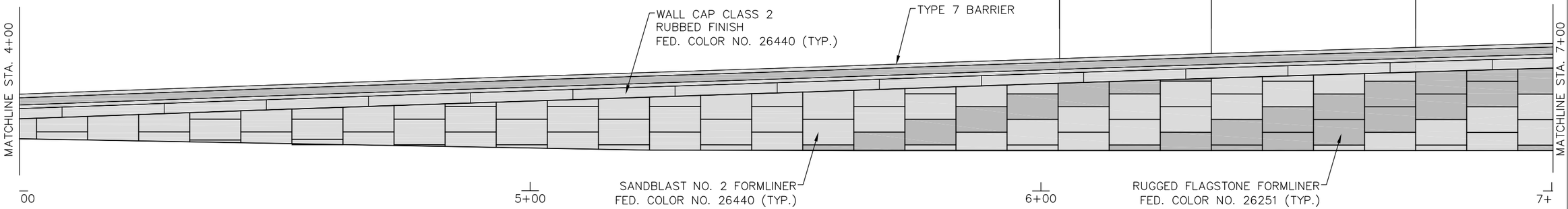

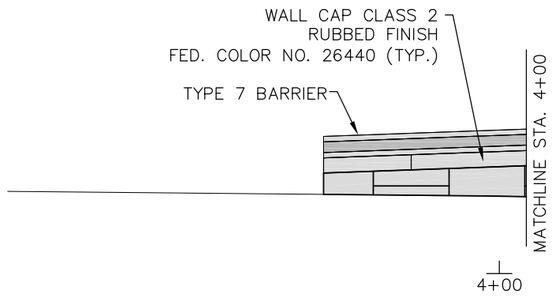

I-25 SB WALL 2
(STR. NO. F-16-XS)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

pkm design group, inc.
7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
www.pkmdg.com

Print Date: 10-18-10	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311 WALL SHEETS.DWG	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information: Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE WALL ELEVATIONS			Project No./Code
			IM 0254-394
Designer: PKM	Structure Numbers		16311
Detailer: PAF			
Sheet Subset:	Subset Sheets: 3 of 6		Sheet Number 598

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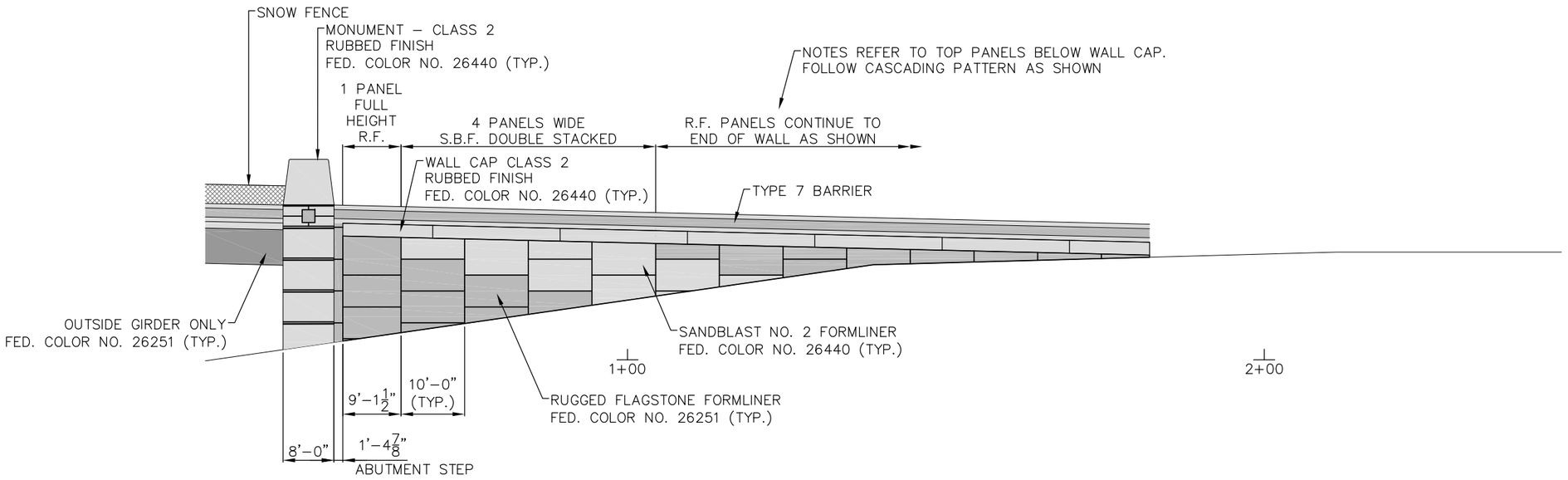

I-25 NB WALL 2
(STR. NO. F-16-XS)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

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7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
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fax 303.804.0070
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Print Date: 10-18-10	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311 WALL SHEETS.DWG	Date: Comments: Init.	2000 South Holly Street	No Revisions:
Horiz. Scale: Vert. Scale: As Noted		Denver, CO 80222	Revised:
Unit Information Unit Leader Initials		Phone: 303-972-9112 FAX: 303-972-9114	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111		Region 6 RLB	

I-25/SANTA FE INTERCHANGE WALL ELEVATIONS			Project No./Code
Designer: PKM	Structure Numbers		IM 0254-394
Detailer: PAF			16311
Sheet Subset:	Subset Sheets: 4 of 6		Sheet Number 599

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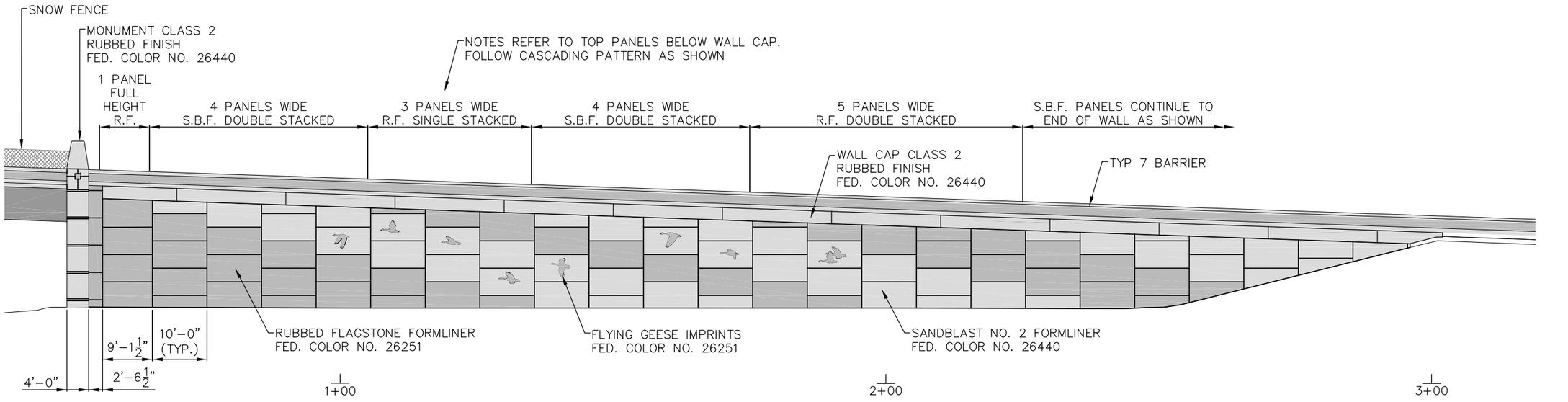

RAMP 1 WALL 3
(STR. NO. F-16-DV)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

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7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
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Print Date: 10-18-10		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE WALL ELEVATIONS	Project No./Code
File Name: 16311 WALL SHEETS.DWG		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		IM 0254-394
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Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: PAF / Sheet Subset: / Subset Sheets: 5 of 6	Sheet Number 600
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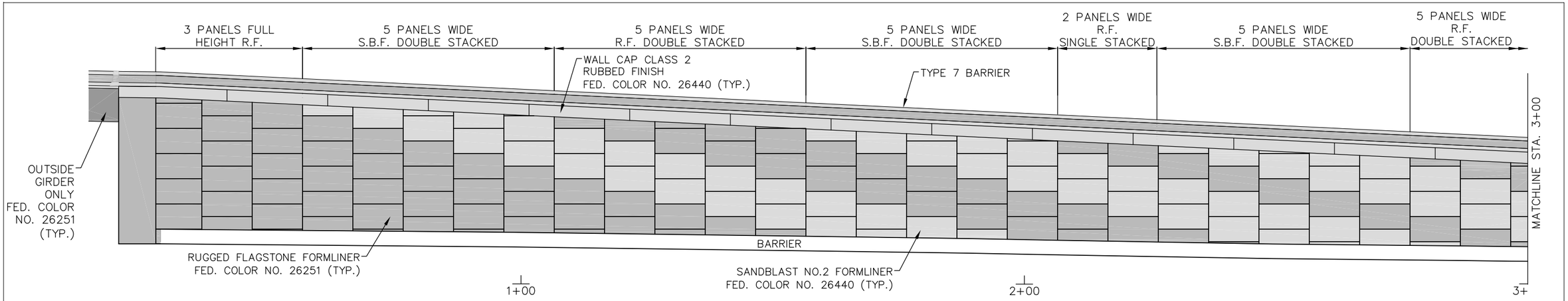

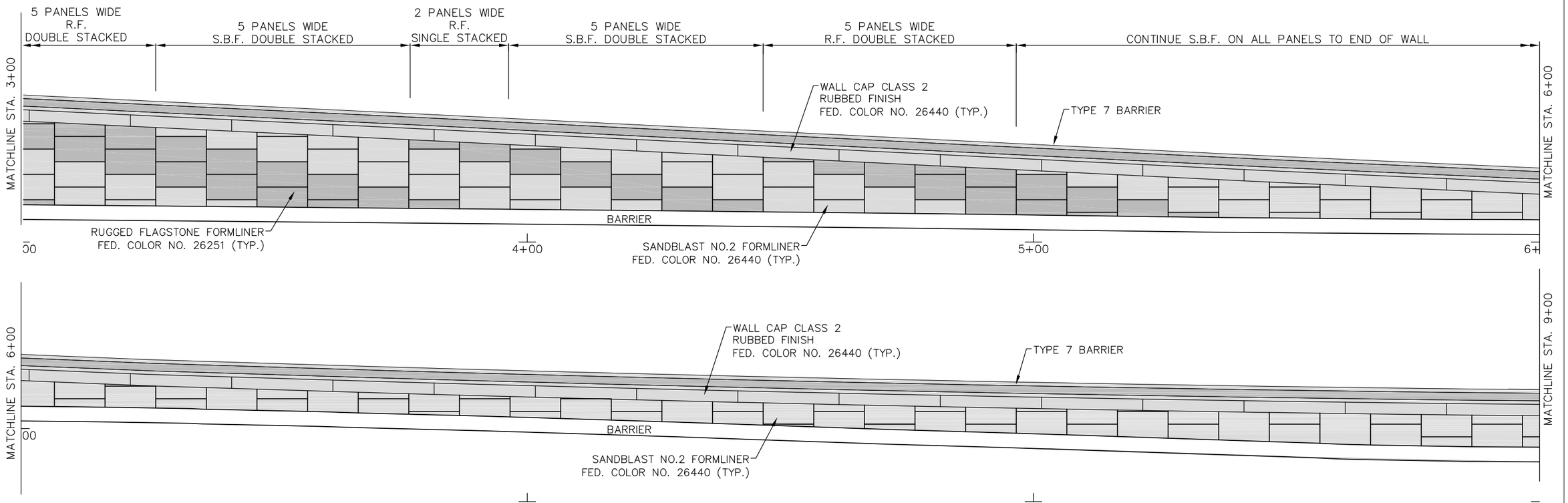

RAMP 2 WALL
(STR. NO. WALL F-16-DS)

ARCHITECTURAL FINISH LEGEND

- (CRF) CLASS 2 RUBBED FINISH
- (SBF) SANDBLAST #2 FORMLINER
- (RF) RUGGED FLAGSTONE 160B

pkm design group, inc.
7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
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Print Date: 10-18-10	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311 WALL SHEETS.DWG	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
Horiz. Scale: Vert. Scale: As Noted		Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE WALL ELEVATIONS			Project No./Code
			IM 0254-394
Designer: PKM	Structure Numbers		16311
Detailer: PAF			
Sheet Subset:	Subset Sheets: 6 of 6		Sheet Number 601

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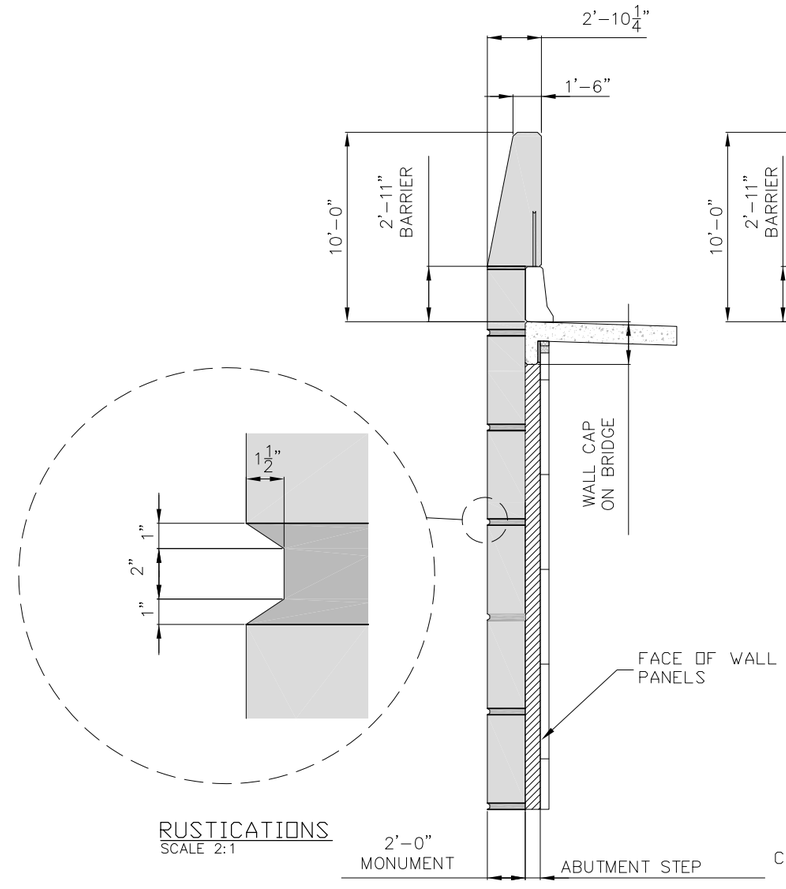
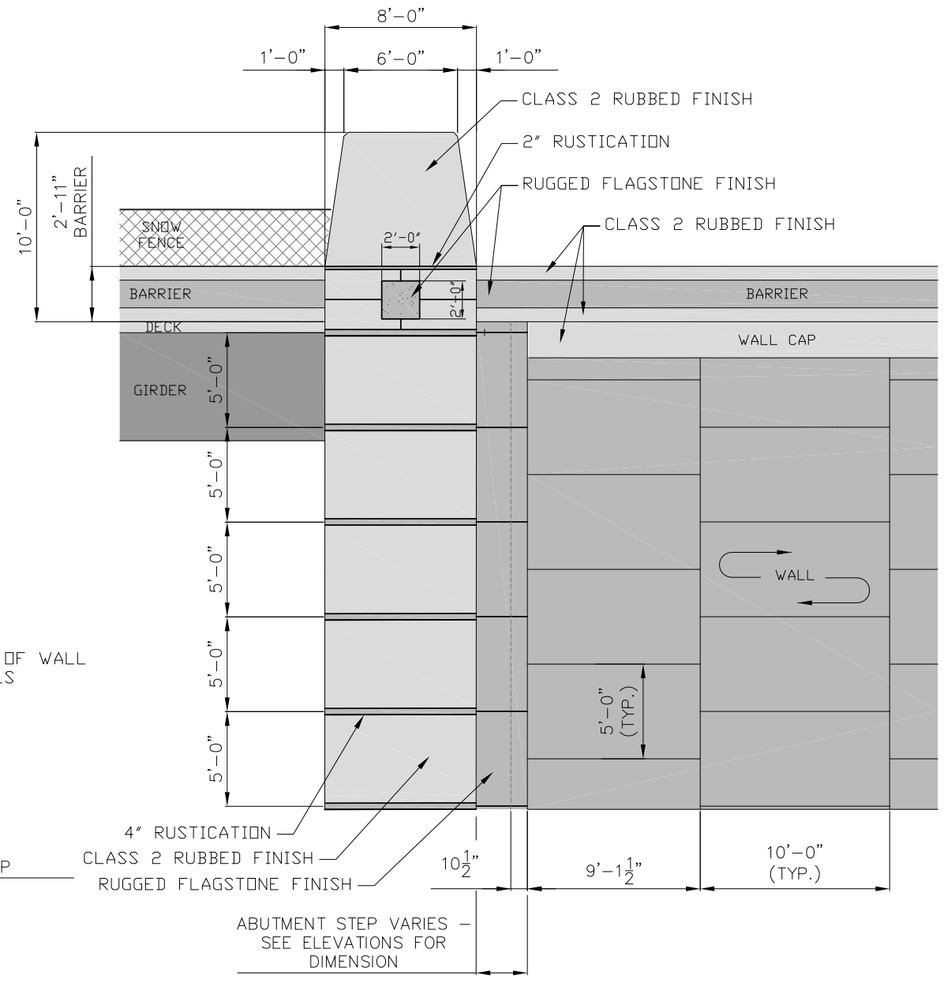


RUSTICATIONS
SCALE 2:1

SECTION
SCALE 1:8



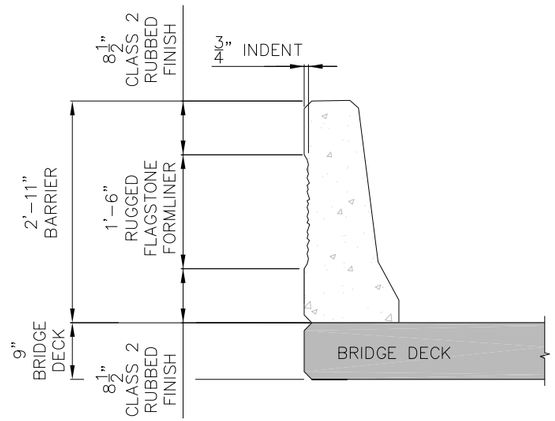
ELEVATION (TYP.)
SCALE 1:8

pkm design group, inc.
7353 S. Alton Way, Suite 125
Centennial, Colorado 80112
phone 303.804.0080
fax 303.804.0070
www.pkmdg.com

Z:\PROJECTS\FHU I-25 SANTA FEALAMEDA\16311\LANDSCAPE_ENVIRONMENTAL\DRAWINGS\16311 ABUTMENT DETAILS.DWG

Print Date: 10-18-10	Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311 ABUTMENT DETAILS.DWG	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: Vert. Scale: As Noted				Region 6 RLB	Revised:
Unit Information Unit Leader Initials					Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

I-25/SANTA FE INTERCHANGE AESTHETIC DETAILS			Project No./Code
			IM 0254-394
Designer: PKM	Structure Numbers		16311
Detailer: PAF			
Sheet Subset:	Subset Sheets: 1 of 3		Sheet Number 602



BARRIER ON BRIDGE
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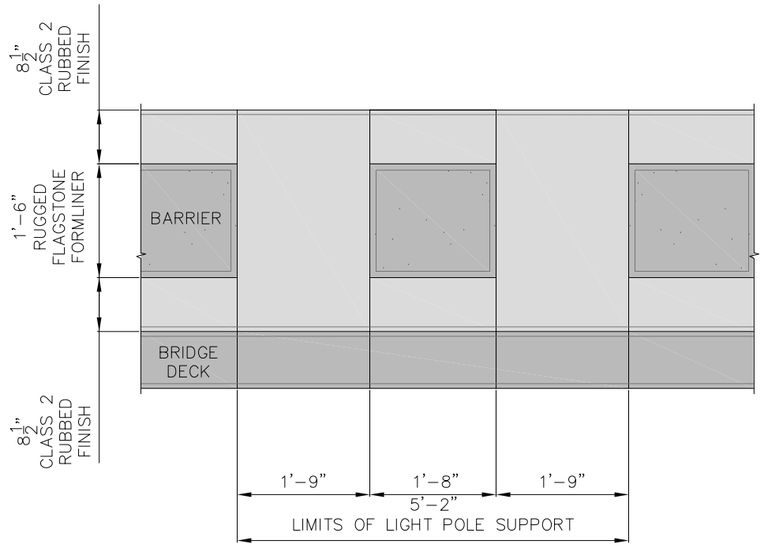
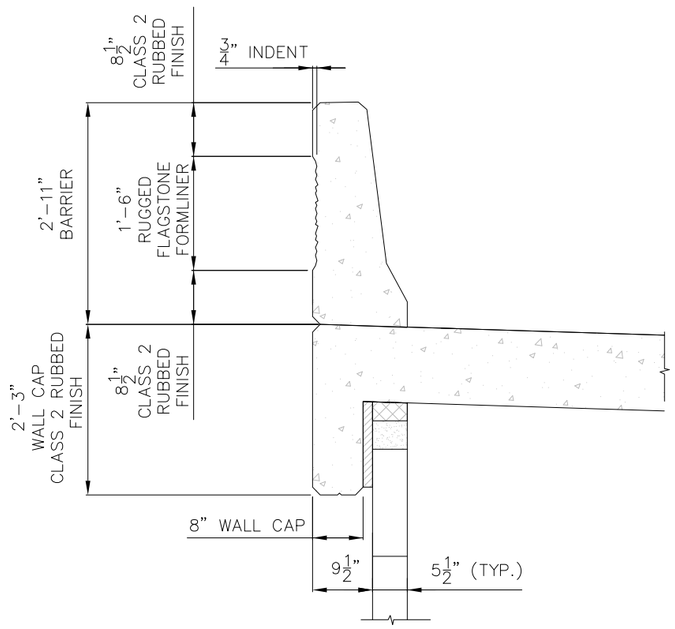


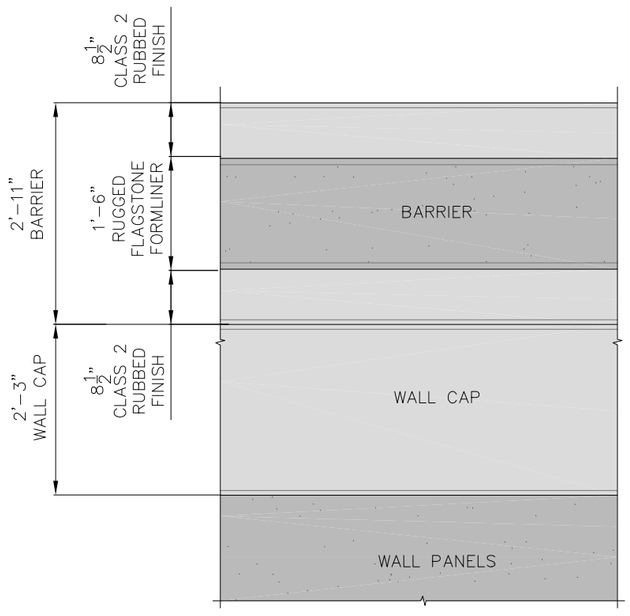
LIGHT POLE SUPPORT ELEVATION
N.T.S.

NOTES:

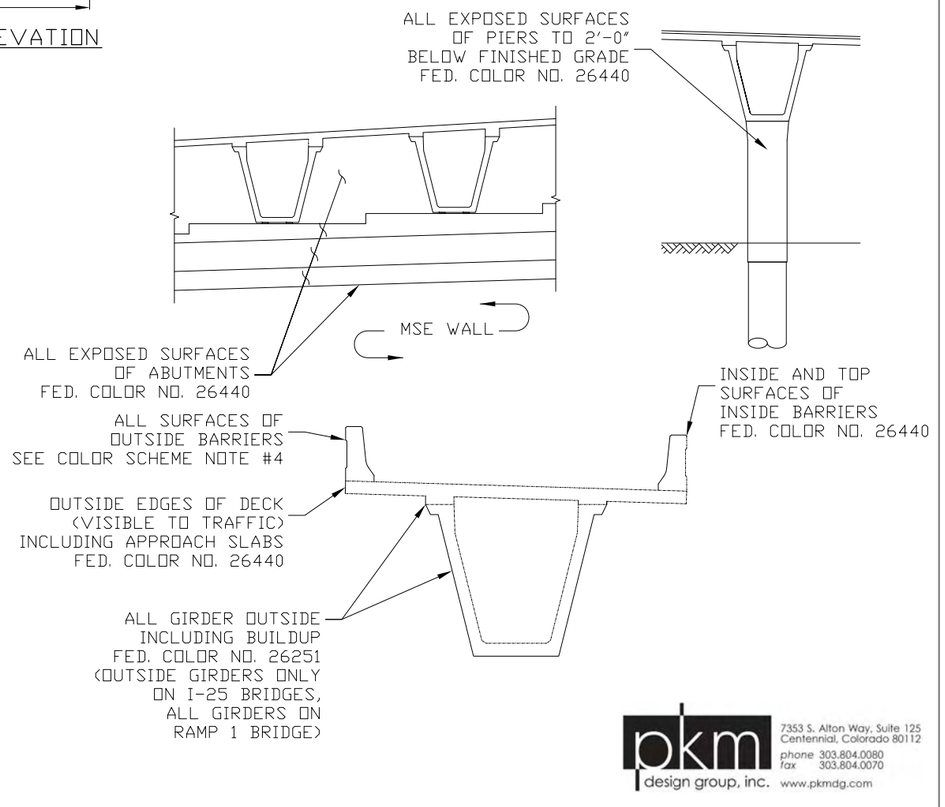
1. ALL RUGGED FLAGSTONE FORMLINER SURFACES AND GEESE PATTERNS SHALL RECEIVE CONCRETE STAIN FED. COLOR NO. 26251.
2. ALL SANDBLAST NO. 2 FORMLINER SHALL RECEIVE CONCRETE STAIN FED. COLOR NO. 26440.
3. MONUMENT, OUTSIDE OF BRIDGE DECKS AND EXPOSED SURFACES OF PIERS SHALL RECEIVE CONCRETE STAIN FED. COLOR NO. 26440.
4. WHERE BARRIERS HAVE CLASS 2 FINISH STAIN SHALL BE FED. COLOR NO. 26440. WHERE BARRIERS HAVE FLAGSTONE FORMLINER STAIN SHALL BE FED. COLOR NO. 26251.



BARRIER ON WALL
N.T.S.



BARRIER ON WALL
N.T.S.



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Z:\ PROJECTS\FHU I-25 SANTA FEALAMEDA\16311 \ LANDSCAPE_ENVIRONMENTAL\DRAWINGS \ 16311 ABUTMENT DETAILS.DWG

Print Date: 10-18-10	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 16311 ABUTMENT DETAILS.DWG	Date: Comments: Init.	2000 South Holly Street, Denver, CO 80222	No Revisions:
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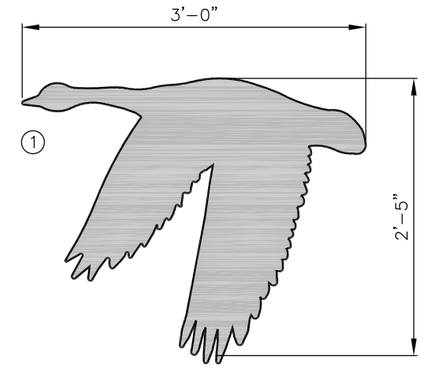
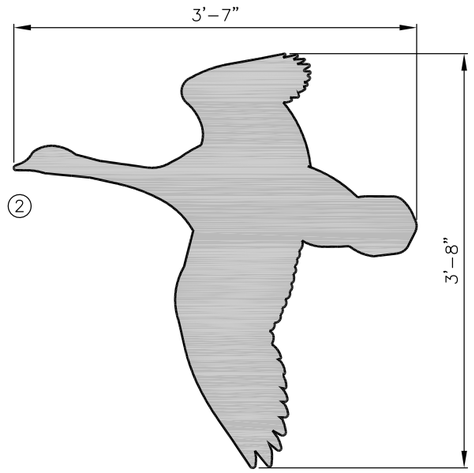
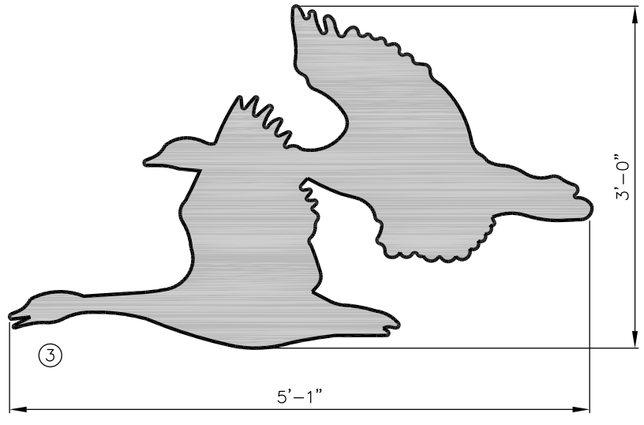
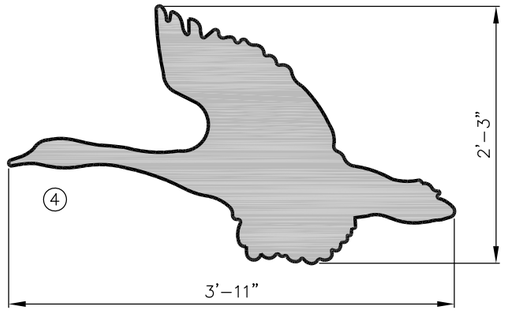
Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

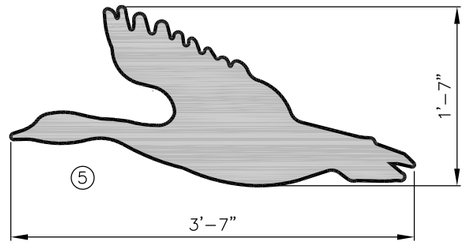
I-25/SANTA FE INTERCHANGE AESTHETIC DETAILS			Project No./Code
			IM 0254-394
Designer: PKM	Structure Numbers		16311
Detailer: PAF			
Sheet Subset:	Subset Sheets: 2 of 3		Sheet Number 603

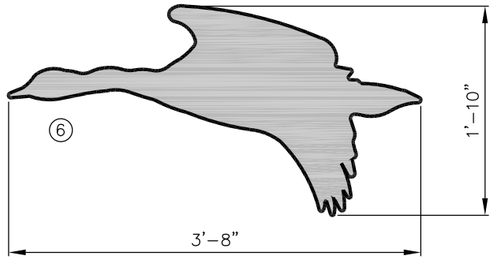


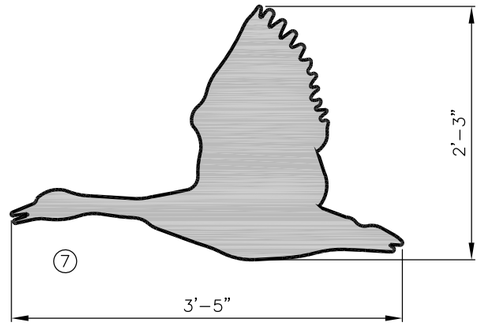


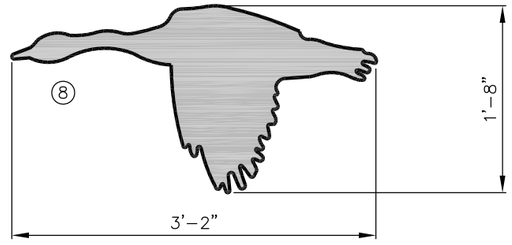


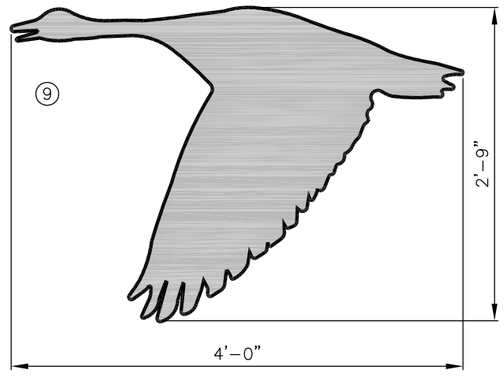






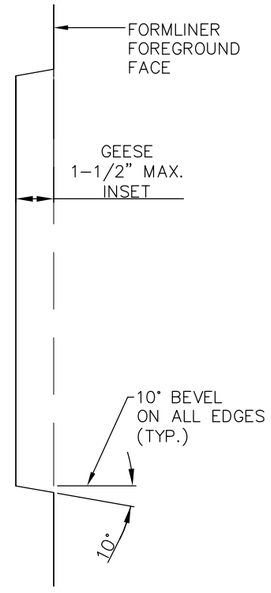






NOTES:
1. SEE WALL ELEVATIONS FOR FULL FORMLINER LAYOUT SOME PANELS ALSO HAVE MIRROR IMAGE OF BIRDS AS SHOWN ON THIS SHEET
2. INSIDE FACE OF GEESE SHALL BE STAINED FED. COLOR NO. 26251

GEESE DETAILS
NOT TO SCALE



TYPICAL CROSS SECTION OF GEESE
NOT TO SCALE

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Unit Information Unit Leader Initials		Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

I-25/SANTA FE INTERCHANGE
AESTHETIC DETAILS

Designer: PKM	Structure Numbers		Project No./Code: IM 0254-394
Detailer: PAF			16311
Sheet Subset:	Subset Sheets: 3 of 3		Sheet Number 604

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL MAINTAIN MINIMUM 11' LANES AND 2' SHOULDERS. APPROACH ENDS OF CONCRETE BARRIER (TEMPORARY) SHALL BE FLARED TO PROVIDE MINIMUM 2' SHOULDERS AT IMPACT ATTENUATORS (TEMPORARY).

2. IMPACT ATTENUATORS (TEMPORARY) SHALL MEET 55 MPH DESIGN ON I-25 AND RAMPS, 35 MPH DESIGN ON ALL OTHER ROADWAYS.

3. CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO EPOXY PAVEMENT MARKING.

4. FLASHING BEACON (SOLAR) SHALL BE INSTALLED ON "ROAD WORK ½ MILE" ADVANCE WARNING SIGNS.

5. PORTABLE MESSAGE SIGN PANELS SHALL BE USED AS DIRECTED BY THE ENGINEER.

6. CONCRETE BARRIER (TEMPORARY) SHALL INCLUDE MULTIPLE RESETS AS NEEDED TO ACCOMMODATE THE DIFFERENT STAGES OF CONSTRUCTION. THE LARGEST AMOUNT OF BARRIER IN USE AT ANY ONE TIME WILL BE THE AMOUNT THAT IS PAID FOR. RESETS WILL NOT BE MEASURED AND PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST.

7. ALL TRAFFIC CONTROL DEVICES, CONCRETE BARRIERS, REFLECTORIZED DRUMS, SIGNS, PAVEMENT MARKINGS AND CHANNELIZATION DEVICES SHALL CONFORM TO THE LATEST CDOT, MUTCD AND LOCAL AGENCY STANDARDS.

8. CONSTRUCTION OF THE FACILITIES SHALL BE COMPLETED IN A SAFE AND EXPEDITIOUS MANNER WITHOUT IMPACTING THE STRUCTURAL INTEGRITY OF ADJACENT BUILDINGS, STRUCTURES AND UTILITIES.

9. TWENTY FOUR (24) HOUR EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED FOR ALL STREETS AND PROPERTIES WITHIN THE PROJECT LIMITS.

10. SAFELY COVER TRENCHES AND RESTORE TRAFFIC, PEDESTRIAN AND BICYCLE ACCESS TO NORMAL CONDITIONS WHEN NOT WORKING IN THE AREA.

11. EXISTING GROUND MOUNTED SIGNS SHALL BE MAINTAINED/RELOCATED AS NECESSARY. ALL CONFLICTING EXISTING SIGNS SHALL BE MASKED OR REMOVED.

12. TEMPORARY CONCRETE BARRIERS SHALL HAVE DRAINAGE SLOTS, WHERE NEEDED, TO PROVIDE ADEQUATE DRAINAGE.

13. ALL SIGN LOCATIONS MAY BE ADJUSTED WITHIN REASONABLE TOLERANCES TO ACCOMMODATE FIELD CONDITIONS.

14. WHERE PLANS INDICATE THE STATION/OFFSET AND/OR COORDINATES FOR CONCRETE BARRIER ENDS OR ANGLE POINTS, THE INFORMATION IS REFERENCED TO THE EDGE OF BARRIER ON THE TRAFFIC SIDE. WHERE OFFSETS FROM EDGE LINES ARE SHOWN, THE DIMENSION IS TO THE EDGE OF BARRIER ON THE TRAFFIC SIDE.

15. TEMPORARY CONCRETE BARRIER END TREATMENTS AND ANCHORAGE SHALL BE IN ACCORDANCE WITH CDOT M&S STANDARDS.

16. THE FIRST TWO REFLECTIVE DRUMS WILL BE EQUIPPED WITH FLASHERS IF INTENDED TO BE LEFT IN PLACE AT NIGHT.

17. ALL DRUMS SHALL BE MOVED TO THE OUTSIDE EDGE OF THE ROADWAY AT NIGHT, ON WEEKENDS AND ON HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

18. NO PARKING OR STAGING IN WETLAND AREAS.

19. FLAGGER SYMBOL SIGNS SHALL BE INSTALLED AND FLAGGERS SHALL BE UTILIZED AS DEEMED NECESSARY.

20. A MINIMUM TRANSITION RATE OF 55:1 ON I-25 SHALL BE UTILIZED TO MATCH EXISTING AND NEW STRIPING WHEN TEMPORARY LANE TRANSITIONS ARE REQUIRED UNLESS OTHERWISE NOTED.

ROADWAY	POSTED SPEED	MOT DESIGN SPEED	CLEAR ZONE (FEET)	FLARE RATE
I-25 MAINLINE	45	50	26'	21:1
RAMPS	45	45	26'	18:1
SANTA FE, KALAMATH	25	25	7'	8:1

LEGEND:

- LANE USAGE
- PERMANENT CONSTRUCTION, THIS STAGE
- DETOUR CONSTRUCTION, THIS STAGE
- PERMANENT CONSTRUCTION, PREVIOUS STAGE
- DETOUR CONSTRUCTION, PREVIOUS STAGE
- ARROW PANEL
- CONCRETE BARRIER (TEMPORARY)
- DRUM CHANNELIZING DEVICE
- BARRICADE
- IMPACT ATTENUATOR (TEMPORARY)
- SIGN

INDEX OF TCP SHEETS

- TCP GENERAL NOTES
- SUMMARY OF QUANTITIES
- TABULATION OF QUANTITIES
- TCP SIGN DETAILS
- ADVANCE WARNING SIGNING PLANS
- RAMP CLOSURE AREA DETOUR PLANS
- TCP PLANS
- TCP GEOMETRIC LAYOUTS

HARTWIG & Associates, Inc.

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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions

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R-1	12-3-10	RE-ISSUED SHEET	MLH
R-2	1-3-11	RE-ISSUED SHEET	MLH

Colorado Department of Transportation
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Revised:
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I-25/SANTA FE INTERCHANGE
TCP NOTES

Designer: M. HARTWIG
Detailer: E. LANG
Sheet Subset: PHASE 2
Structure Numbers:
Subset Sheets: 1 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 605 B

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12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

TABULATION OF TRAFFIC CONTROL DEVICES

ITEM NO.	ITEM	UNIT	PROJECT TOTALS
627-00001	PAVEMENT MARKING PAINT	GAL	1,134
630-00000	FLAGGING	HOUR	7,500
630-00003	UNIFORMED TRAFFIC CONTROL	HOUR	4,620
630-00004	TRAFFIC CONTROL VEHICLE	EACH	2
630-00007	TRAFFIC CONTROL INSPECTION	DAY	460
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	1,000
630-80001	FLASHING BEACON (PORTABLE)	EACH	8
630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	7
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	111
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	47
630-80343	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE C)	EACH	26
630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)	SF	402
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	6
630-80358	ADVANCE WARNING FLASHING AND SEQUENCING ARROW PANEL (C TYPE)	EACH	3
630-80360	DRUM CHANNELIZING DEVICE	EACH	275
630-80363	DRUM CHANNELIZING DEVICE (WITH LIGHT) (FLASHING)	EACH	30
630-80370	CONCRETE BARRIER (TEMPORARY)	LF	16,600
630-80378	CONCRETE BARRIER (TEMPORARY) (GLARE SCREEN)	LF	3,400
630-80380	TRAFFIC CONE	EACH	500
630-80384	TUBULAR MARKER	EACH	20
630-85010	IMPACT ATTENUATOR (TEMPORARY)	EACH	27
630-85040	IMPACT ATTENUATOR (TRUCK MOUNTED ATTENUATOR) (TEMPORARY)	EACH	2

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES. DAMAGED DEVICES, PARTICULARLY IMPACT ATTENUATORS, SHALL BE REPAIRED OR REPLACED PROMPTLY. DEVICES THAT ARE NOT PROPERLY MAINTAINED, WILL BE EXCLUDED FROM PAYMENT. WORK WILL BE STOPPED BY THE ENGINEER UNTIL DEVICES ARE MAINTAINED, REPAIRED OR REPLACED. PROJECT TIME COUNT WILL NOT BE CONTINUED. COST OF MAINTENANCE WILL NOT BE PAID SEPERATELY, BUT SHALL BE INCLUDED IN THE ITEMS.

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R-2	1-3-11	RE-ISSUED SHEET	MLH

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TCP TABULATION OF APPROXIMATE QUANTITIES

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 2 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606 B

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12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

SIGN CODE	LEGEND	DIMENSION	PROJECT SIGNS	ADVANCED WARNING	SB SANTA FE-SB I-25 CLOSURE	NB I-25 OFF RAMP TO FRONTAGE	NB SANTA FE-SB I-25 CLOSURE	PHASE 1 NB I-25	PHASE 1a1 SB SANTA FE	PHASE 1a2, 1a3 SB SANTA FE	PHASE 1a4 NB SANTA FE	PHASE 2 SB I-25	PHASE 2c1.1 FRONT-AGE ROAD	PHASE 2c1.4 FRONT-AGE ROAD	PHASE 3 SB I-25	PHASE 3c1 SB I-25 OFF RAMP	PHASE 3c2,3c3 SANTA FE	PHASE 3c4 SANTA FE	PHASE 4 NB I-25	PHASE 5 SB I-25	PHASE 6 SANTA FE	PHASE 7 NB I-25	PHASE 7 FRONT-AGE ROAD	PHASE 8 NB I-25	PAY QTY	PANEL SIZE (EACH) A	PANEL SIZE (EACH) B	PANEL SIZE (EACH) C	SPECIAL (SF)	BACKGROUND COLOR
R2-1	SPEED LIMIT (55)	48"X60"		4																					4			4		WHITE
G20-10	XYZ CONSTRUCTION THANKS	48"X48"		8																					8		8			ORANGE
R52-6b	END FINES DOUBLE IN WORK ZONE	48"X60"		8																					8			8		WHITE
G20-5	WORK ZONE	48"X12"		8																					8	8				ORANGE
R2-6a	FINES DOUBLE	48"X48"		4																					4		4			ORANGE
R2-1	SPEED LIMIT (45)	48"X60"		4																					4			4		WHITE
R52-6a	BEGIN FINES DOUBLE IN WORK ZONE	48"X60"		8																					8			8		WHITE
W20-1	ROAD WORK 1/2 MILE	48"X48"		4																					4		4			ORANGE
W20-1	ROAD WORK 1 MILE	48"X48"		4																					4		4			ORANGE
G20-11	CDOT ROAD WORK FOR INFORMATION	48"X48"		8																					8		8			ORANGE
W20-1	ROAD WORK AHEAD	48"X48"		1																					1		1			ORANGE
G20-5	WORK ZONE	24"X12"		10																					10	10				ORANGE
R2-1	SPEED LIMIT (35)	24"X30"		2																					2	2				ORANGE
R2-1	SPEED LIMIT (25)	24"X30"		4																					4	4				WHITE
R2-6a	FINES DOUBLE	24"X18"		4																					4	4				ORANGE
W20-1	ROAD WORK AHEAD	36"X36"		4																					4	4				ORANGE
R11-2	ROAD CLOSED (MOUNTED ON TYPE III)	48"x30"			1	1	1			2	1	2	2	2		1			1	1	1		3	1	7		7			WHITE
SPECIAL	SB I-25 RAMP CLOSED	132"X84"			1		1																		2				154	ORANGE
M4-8	DETOUR	24"X12"			5		4																		9	9				ORANGE
M4-5	TO	24"X12"			5		4																		9	9				WHITE
M3-3	SOUTH	24"X12"			5		4																		9	9				WHITE
M1-1	INTERSTATE I-25	36"X36"			6		5																		11	11				BLUE
M6-1R	DIRECTIONAL ARROW (RIGHT)	21"x15"			1		2																		3	3				WHITE
M6-3	DIRECTIONAL ARROW (STRAIGHT)	21"x15"			1																				1	1				WHITE
M4-8a	END DETOUR	21"X18"			1	1	1																		3	3				ORANGE
M5-1L	ADVANCE TURN ARROW (LEFT)	21"x15"			1																				1	1				WHITE
M6-1L	DIRECTIONAL ARROW (LEFT)	21"x15"			2		1																		3	3				WHITE
SPECIAL	SANTA FE EXIT CLOSED USE LINCOLN	132"X84"				1																			1				77	ORANGE
SPECIAL	SANTA FE EXITED CLOSED	132"X84"				1																			1				77	ORANGE
SPECIAL	CLOSED (MOUNTED ON OVERHEAD SIGN)	120"X24"				2																			2				40	ORANGE
M4-9R	DETOUR (RIGHT)	30"X24"				2																			2	2				ORANGE
M4-9L	DETOUR (LEFT)	30"X30"				2																			2	2				WHITE
M4-9	DETOUR (STRAIGHT)	30"X30"				1																			1	1				WHITE
M5-1R	ADVANCE TURN ARROW (RIGHT)	21"x15"					1																		1	1				WHITE
E5-1	EXIT GORE	72"X60"						1				1			1					1				1	2			2		ORANGE
E5-1bP	EXIT NUMBER	72"X30"						1				1			1					1				1	2		2			ORANGE
W4-2R	LANE ENDS (RIGHT)	36"X36"							1				1												1	1				ORANGE
W20-5R	RIGHT LANE CLOSED AHEAD	36"X36"							1																1	1				ORANGE
W4-2L	LANE ENDS (LEFT)	36"X36"								1	2					1		1							3	3				ORANGE
W20-5L	LEFT LANE CLOSED AHEAD	36"X36"								1	2					1		1							3	3				ORANGE
W1-3L	TURN (LEFT)	36"X36"								1			1												1	1				ORANGE
R4-9	STAY IN LANE	24"X30"								1	1						1	1							2	2				WHITE
W1-6R	LARGE ARROW (RIGHT)	48"X24"								2		2				1				1	1			1	2	2				ORANGE
W24-1cP	ALL LANES	24"X24"								1															1	1				ORANGE
W24-1aL	DOUBLE REVERSE CURVE (2 LANES, LEFT)	36"X36"									2							1							2	2				ORANGE
SPECIAL	GUIDE SIGN	108"X72"									1							1							1				54	ORANGE
W1-6L	LARGE ARROW (LEFT)	48"X24"									1		1	1					1						2	2				ORANGE
R1-1	STOP	30"X30"											1	1											1	1				RED
R3-5L	MANDATORY MOVEMENT (LEFT)	30"X36"											1	1											1	1				WHITE
W6-4	TWO-WAY-TRAFFIC	12"X18"											2												2	2				ORANGE
W4-4b	ONCOMING TRAFFIC DOES NOT STOP	24"X12"											1	1											1	1				ORANGE
W1-4cR	REVERSE CURVE (3 LANES, RIGHT)	48"X48"																		2		2		2	2		2			ORANGE
W1-4cL	REVERSE CURVE (3 LANES, LEFT)	48"X48"													2					2					2		2			ORANGE
W20-5R	RIGHT LANE CLOSED (1/2 MILE)	48"X48"																		1					1		1			ORANGE
W20-5R	RIGHT LANE CLOSED AHEAD	48"X48"																				1			1		1			ORANGE
E5-2a	EXIT CLOSED (MOUNTED ON TYPE III)	48"X36"																				2			2		2			ORANGE
R3-7R	RIGHT LANE MUST TURN RIGHT	30"X30"																					1		1	1				ORANGE
W4-3	ADDED LANE	36"X36"																1							1	1				ORANGE
W1-5	WINDING ROAD	36"X36"																1							1	1				ORANGE
W4-2R	LANE ENDS (RIGHT)	48"X48"																			1		2		2		2			ORANGE
W13-1P	ADVISORY SPEED (35)	30"X30"																							2	2				ORANGE
W13-1P	ADVISORY SPEED (20)	18"X18"																1							1	1				ORANGE
W13-1P	ADVISORY SPEED (40)	30"X30"													1										2	2				ORANGE
SPECIAL	RIGHT LANE MUST EXIT	36"X36"																			1				1				9	WHITE
W13-2	EXIT SPEED	36"X48"																			1				1		1			ORANGE
	ARROW PANEL								1	1	1					1						1			3					
SIGNS TOTAL																									204	111	46	26	402	

FELSBURG HOLT & ULLEVIG
6300 South Syracuse Way
Centennial, CO 80111

Print Date: 12/22/2010
File Name: 16311 HA TRAF_PH2_TCP_Tab_Signs.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

R-2

Sheet Revisions		
Date:	Comments	Init.
1-3-11	ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TABULATION OF SIGNS

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 3 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606a B

kroth 1:30:19 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_PH2_TCP_Tab_Signs.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl
16311 HA TRAF_PH2_TCP_Tab_Signs.dgn 12/22/2010 1:30:19 PM

TABULATION OF PAVEMENT MARKING

	PAVEMENT MARKING PAINT					
	LANE (LINEAR FEET)				CENTER	
	WHTE SKIP 10/30 4 IN. LF	WHITE SOLID 4 IN. LF	WHITE SOLID 8 IN. LF	WHTE LANE DROP 3/12 8 IN. LF	YELLOW SOLID 4 IN. LF	YELLOW DOUBLE SOLID 4 IN. LF
PHASE 1						
NB I-25	2374	1268	726	266	1050	
SB I-25					847	
PHASE 1a1						
SB SANTA FE		200				
PHASE 1a2/1a3						
SB SANTA FE	380	2545			1597	
PHASE 1a4						
NB SANTA FE		2126	314		800	
PHASE 2						
SB I-25	7810	4018	850	1126	5096	
NB I-25						
PHASE 2c1.1						
NB I-25					302	
FRONTAGE ROAD		1104				489
PHASE 2c1.4						
NB I-25	83					
FRONTAGE ROAD	410	850				625
PHASE 3						
SB I-25	9974	5047	200	309	4599	
PHASE 3c1						
SB SANTA FE						
PHASE 3c2/3c3						
NB SANTA FE					290	
SB SANTA FE	379	3070	139		1734	
PHASE 3c4						
NB SANTA FE	999	2690	301		2655	
PHASE 4						
NB I-25		2536			2906	
PHASE 5						
SB I-25	9191	3334	997	433	4311	
NB I-25 OFF RAMP		2306	1878	817	695	
PHASE 6						
NB SANTA FE						
SB SANTA FE						
PHASE 7						
NB I-25	10674	5862	711		5220	
FRONTAGE ROAD						
PHASE 8						
NB I-25	8092	4348	1384	648	5116	
FRONTAGE ROAD						
TOTALS	50366	41304	7500	3599	37218	1114
TOTAL (SF)	4197	13768	5000	480	12406	743
PAVEMENT MARKINGS (SF)	23445				13149	
TOTALS	WHITE (GAL) 703				YELLOW (GAL) 394	

NOTE: PAVEMENT MARKING PAINT QUANTITY INCLUDES RESTRIPING ALL ROADWAYS IN THE PROJECT LIMITS 3 TIMES.

Print Date: 12/22/2010
File Name: 16311 HA TRAF_PH2_TCP_Tab_Pavement Marking.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-3-11	ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TABULATION OF PAVEMENT MARKING

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 4 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606b B

kroth 1:30:26 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_PH2_TCP_Tab_Pavement Marking.dgn
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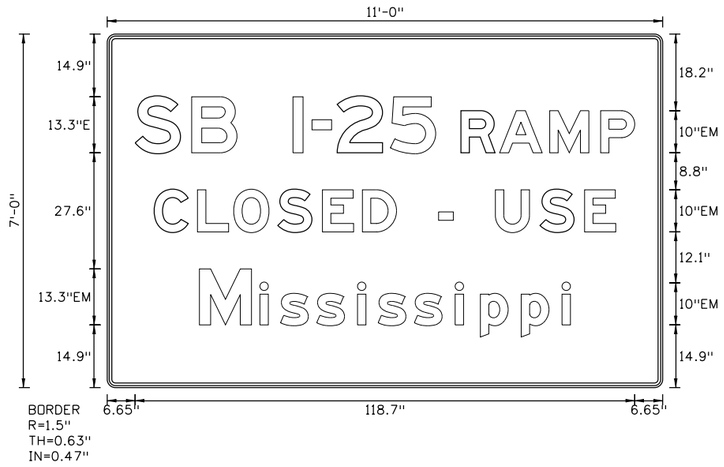

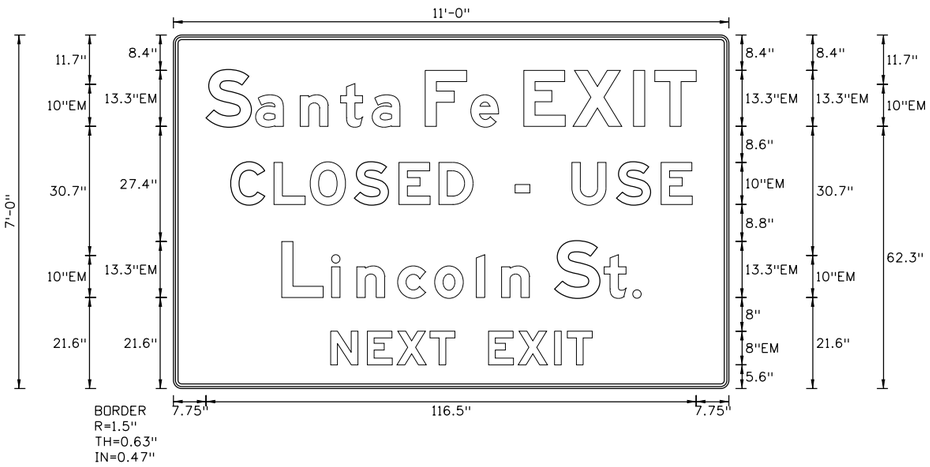

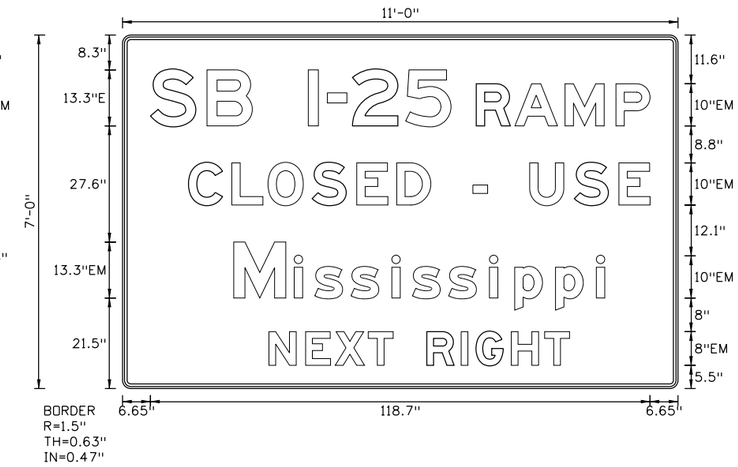

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311 HA TRAF_PH2_TCP_Sign_Detail01.dgn		Date:	Comments	Init.		No Revisions:	TCP SIGN DETAILS	BR 0252-407
Horiz. Scale: 1:3 Vert. Scale: As Noted	R-2	1-3-11	ISSUE SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: E. LANG / Structure Numbers	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: E. LANG	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP / Subset Sheets: 5 of 79	Sheet Number 606c B

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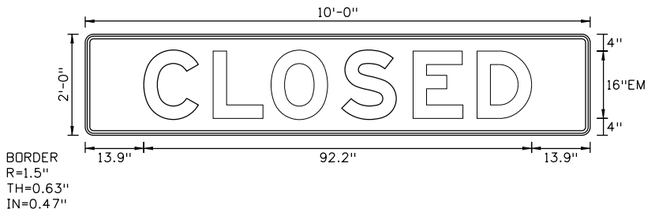
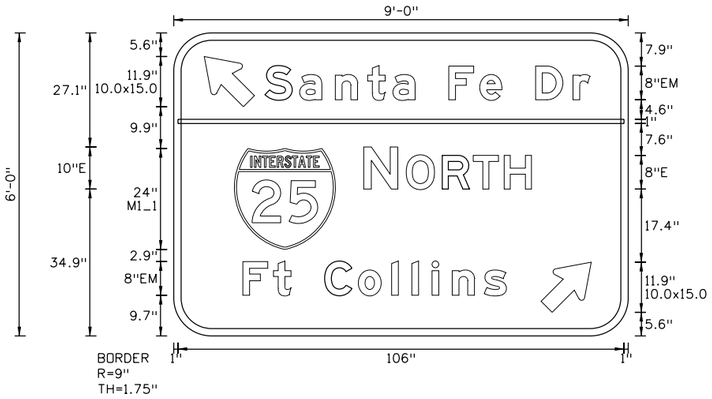
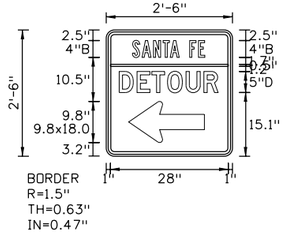
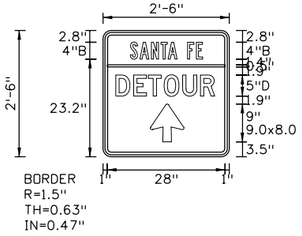
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl









Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311 HA TRAF_PH2_TCP_Sign_Detail02.dgn		Date:	Comments	Init.		No Revisions:	TCP SIGN DETAILS	BR 0252-407
Horiz. Scale: 1:3 Vert. Scale: As Noted	R-2	1-3-11	ISSUE SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: E. LANG / Structure Numbers:	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: E. LANG / Sheet Subset: TCP / Subset Sheets: 6 of 79	Sheet Number 606d B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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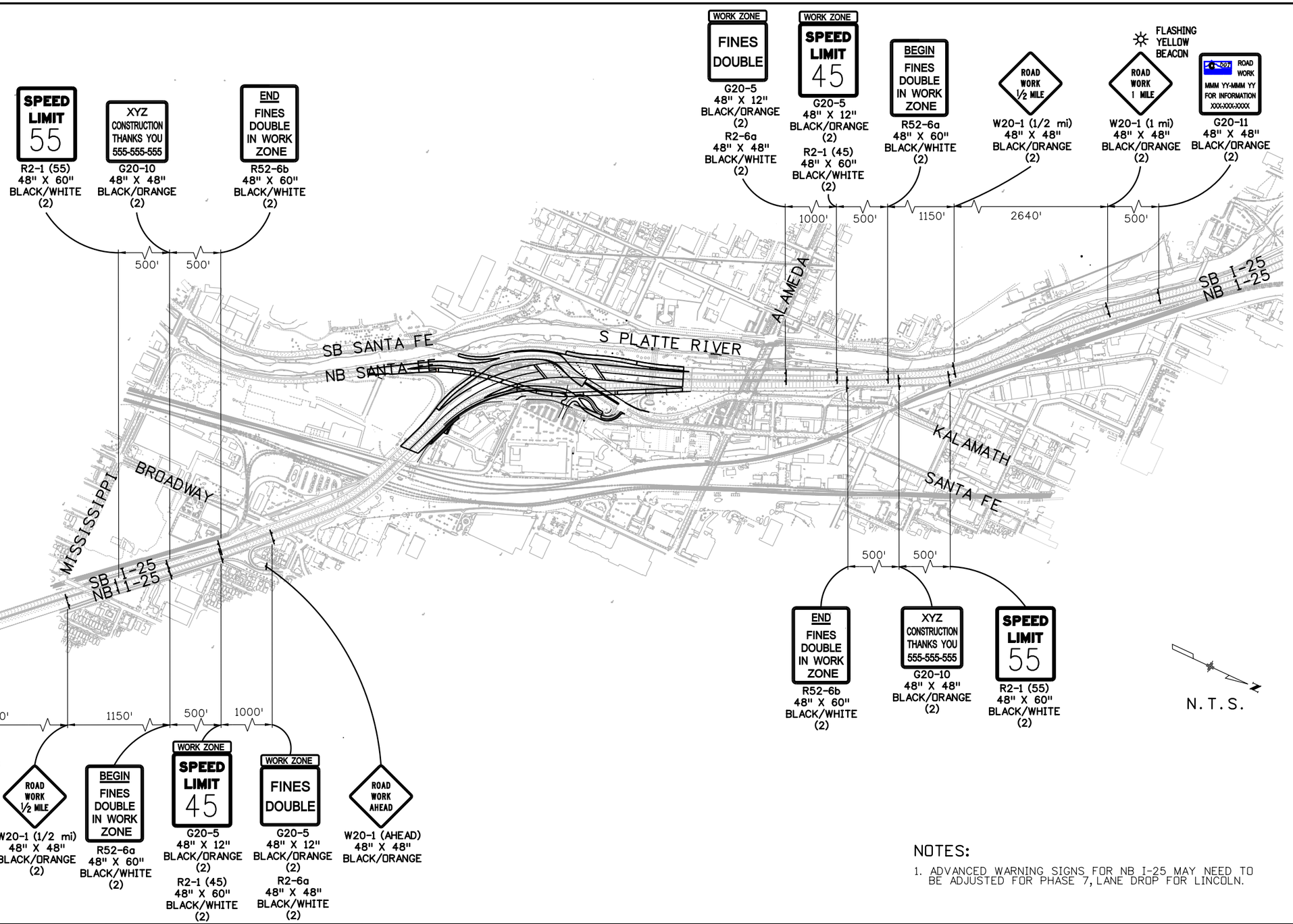

NOTES:

1. ADVANCED WARNING SIGNS FOR NB I-25 MAY NEED TO BE ADJUSTED FOR PHASE 7, LANE DROP FOR LINCOLN.

Print Date: 12/22/2010		Sheet Revisions		
File Name: 16311 HA TRAF_PH2_TCP_07_ADVANCE SIGNS I25.dgn		Date:	Comments	Init.
Horiz. Scale: 1:1000 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ADVANCED WARNING SIGNING
I-25

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 7 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606e B

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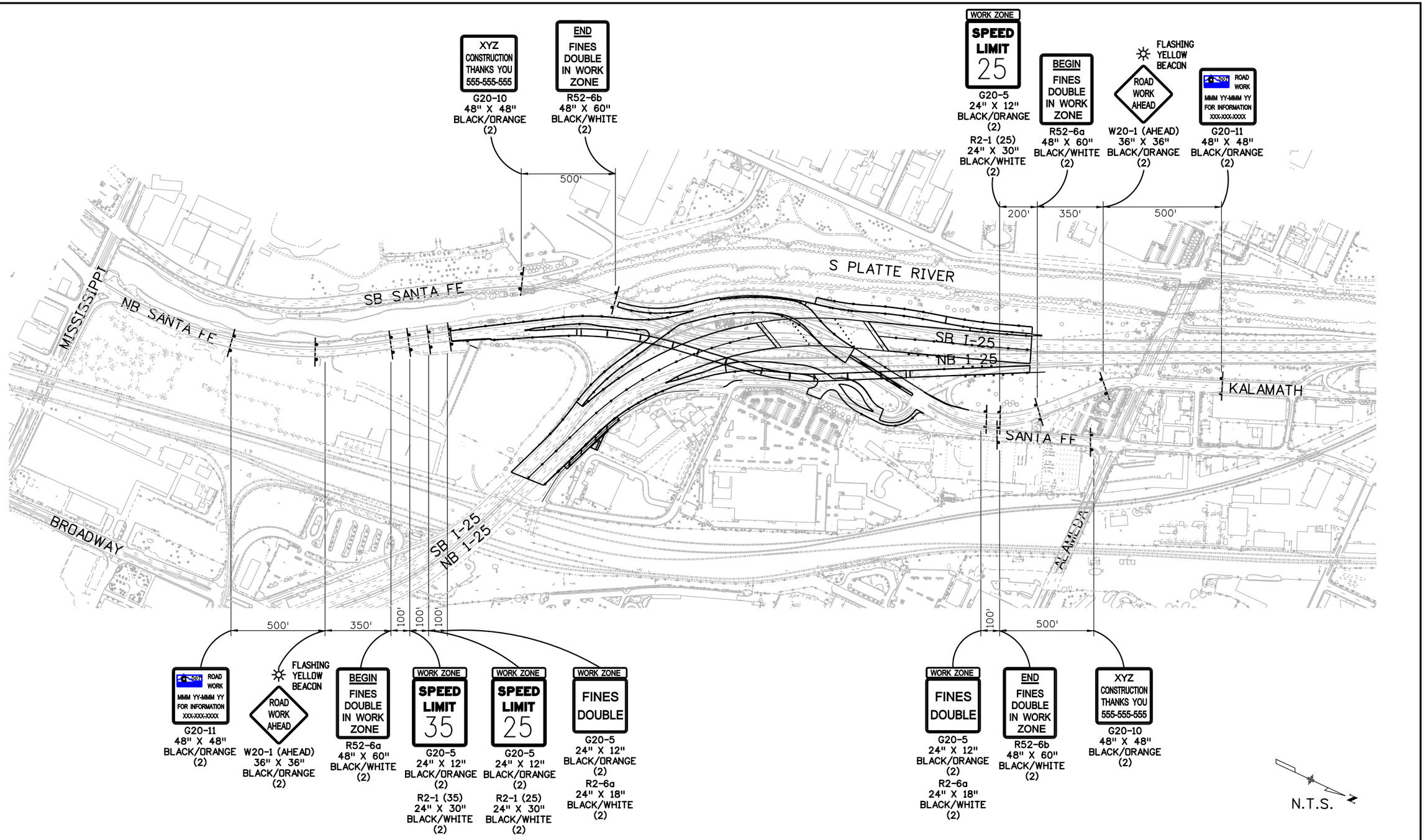

Print Date: 12/22/2010		Sheet Revisions		
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Horiz. Scale: 1:500 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ADVANCED WARNING SIGNING
SANTA FE

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 8 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606T B

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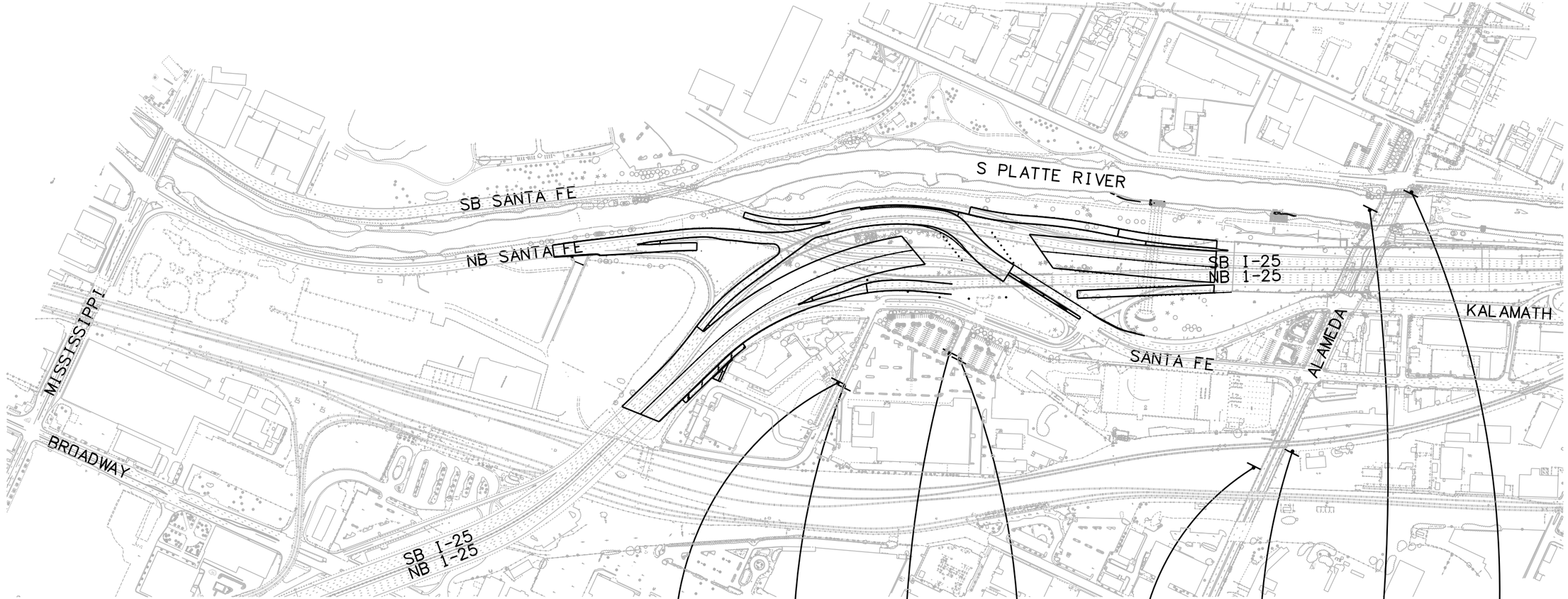

XYZ CONSTRUCTION THANKS YOU 555-555-555	ROAD WORK AHEAD	XYZ CONSTRUCTION THANKS YOU 555-555-555	ROAD WORK AHEAD
G20-10 48" X 48" BLACK/ORANGE	W20-1 (AHEAD) 48" X 48" BLACK/ORANGE	G20-10 48" X 48" BLACK/ORANGE	W20-1 (AHEAD) 48" X 48" BLACK/ORANGE

XYZ CONSTRUCTION THANKS YOU 555-555-555	ROAD WORK AHEAD	ROAD WORK AHEAD	XYZ CONSTRUCTION THANKS YOU 555-555-555
G20-10 48" X 48" BLACK/ORANGE	W20-1 (AHEAD) 48" X 48" BLACK/ORANGE	W20-1 (AHEAD) 48" X 48" BLACK/ORANGE	G20-10 48" X 48" BLACK/ORANGE

N

N.T.S.

Print Date: 12/22/2010
File Name: 16311 HA TRAF_PH2_TCP_09_ADVANCE SIGNS LOCAL.dgn
Horiz. Scale: 1:500 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.
12-3-10	ISSUED SHEET	MLH
1-3-11	RE-ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
ADVANCED WARNING SIGNING
LOCAL STREETS

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 9 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 606g B

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12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

① SB I-25 RAMP CLOSED - USE Mississippi NEXT RIGHT

SPECIAL
132" X 84"
BLACK/ORANGE

③ M5-1R
21" X 15"
BLACK/ORANGE

④ M6-1R
21" X 15"
BLACK/ORANGE

⑤ M6-1L
21" X 15"
BLACK/ORANGE

② DETOUR TO SOUTH

M4-8
24" X 12"
BLACK/ORANGE

M4-5
24" X 12"
BLACK/ORANGE

M3-3
24" X 12"
BLACK/ORANGE

INTERSTATE 25

M1-1
24" X 24"
WHITE/RED/BLUE

⑥ END DETOUR

M4-8a
21" X 18"
BLACK/ORANGE

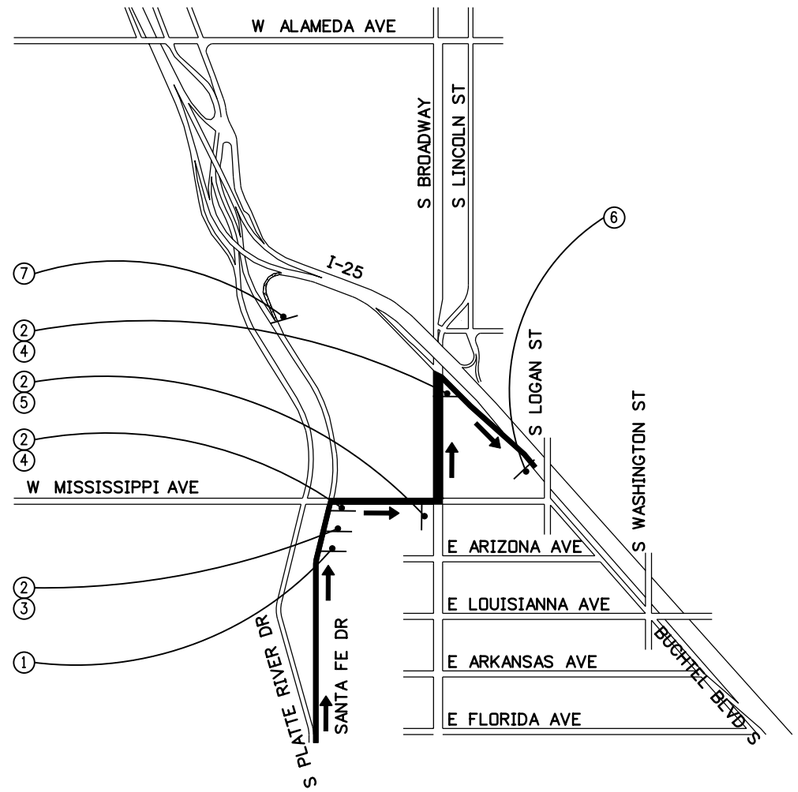
INTERSTATE 25

M1-1
24" X 24"
WHITE/RED/BLUE

⑦ ROAD CLOSED

R11-2
48" X 30"
BLACK/WHITE
MOUNT ON
BARRICADE
(TYPE 3M-A)

As Constructed



LEGEND

- DETOUR ROUTE
- GROUND SIGN
- CLOSED ROAD/WORK AREA

NOTES:

1. EXISTING SIGNS THAT CONFLICT WITH DETOUR ROUTE SHALL BE MASKED

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311HA TRAF_PH2_SANTA_FE_RAMP_SOUTH_CLOSURE01.dgn	R-2	Date	Comments	Init.	2000 South Holly Street, Denver, CO 80222
Horiz. Scale: 1:250 Vert. Scale: As Noted		1-3-11	ISSUE SHEET	MLH	Phone: 303-972-9112 FAX: 303-972-9114
Unit Information Unit Leader Initials					Region 6 RLB
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 2 - NB SANTA FE TO SB I-25 RAMP CLOSURE		Project No./Code
No Revisions:	Designer: M. HARTWIG	Structure Numbers	BR 0252-407
Revised:	Detailer: M. ROMERO		17783
Void:	Sheet Subset: TCP	Subset Sheets: 10 of 79	Sheet Number 606h B

kroth 1:32:37 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311HA TRAF_PH2_SANTA_FE_RAMP_SOUTH_CLOSURE01.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

① SB I-25 RAMP CLOSED - USE Mississippi

SPECIAL
132" X 84"
BLACK/ORANGE

③ M5-1L
21" X 15"
BLACK/ORANGE

④ M6-1R
21" X 15"
BLACK/ORANGE

⑤ M6-3
21" X 15"
BLACK/ORANGE

⑥ M6-1L
21" X 15"
BLACK/ORANGE

② DETOUR TO SOUTH
INTERSTATE 25

M4-8
24" X 12"
BLACK/ORANGE

M4-5
24" X 12"
BLACK/ORANGE

M3-3
24" X 12"
BLACK/ORANGE

M1-1
24" X 24"
WHITE/RED/BLUE

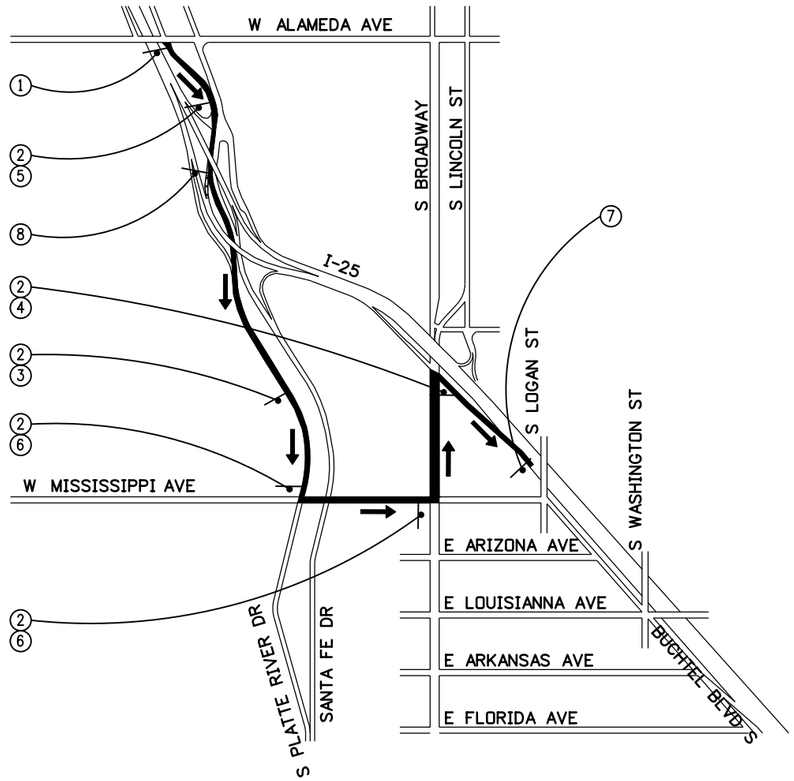
⑦ END DETOUR
INTERSTATE 25

M4-8a
21" X 18"
BLACK/ORANGE

M1-1
24" X 24"
WHITE/RED/BLUE

⑧ ROAD CLOSED

R11-2
48" X 30"
BLACK/WHITE
MOUNT ON
BARRICADE
(TYPE 3M-A)



N

LEGEND

- DETOUR ROUTE
- GROUND SIGN
- CLOSED ROAD/WORK AREA

NOTES:

1. EXISTING SIGNS THAT CONFLICT WITH DETOUR ROUTE SHALL BE MASKED

Print Date: 12/22/2010		Sheet Revisions	
File Name: 16311HA TRAF_PH2_SANTA_FE_RAMP_SOUTH_CLOSURE02.dgn		Date	Comments	Init.
Horiz. Scale: 1:250 Vert. Scale: As Noted	R-2	1-3-11	ISSUE SHEET	MLH
Unit Information Unit Leader Initials				
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2 - SB SANTA FE
TO SB I-25 RAMP CLOSURE

Designer: M. HARTWIG
Detailer: M. ROMERO
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 11 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 6061 B

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12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

①

Santa Fe EXIT
CLOSED - USE
Lincoln St.
NEXT EXIT

SPECIAL
132" X 84"
BLACK/ORANGE

②

Santa Fe EXIT
CLOSED - USE
NEXT EXIT

SPECIAL
132" X 84"
BLACK/ORANGE

③

CLOSED

SPECIAL
120" X 24"
BLACK/ORANGE
(POST ON EXISTING INTERCHANGE DISTANCE SIGNS AND GUIDE SIGNS FOR SANTA FE DR EXIT)

④

M4-9L
30" X 24"
BLACK/ORANGE

⑤

M4-9
30" X 24"
BLACK/ORANGE

⑥

M4-9R
30" X 24"
BLACK/ORANGE

⑦

END DETOUR

M4-8a
21" X 18"
BLACK/ORANGE

⑧

ROAD CLOSED

R11-2
48" X 30"
BLACK/WHITE
MOUNT ON BARRICADE
(TYPE 3M-A)

LEGEND

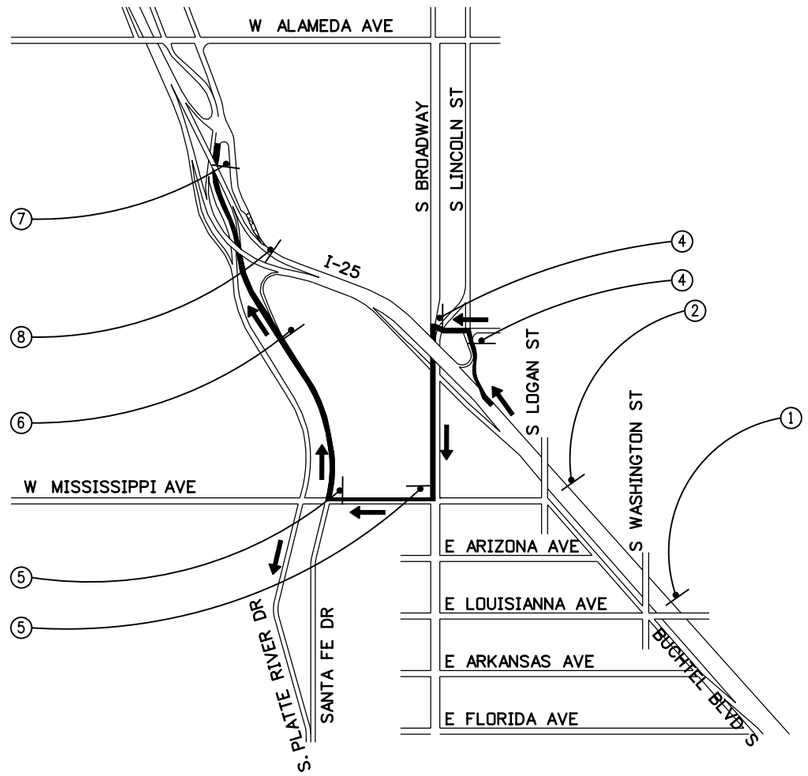
DETOUR ROUTE

GROUND SIGN

CLOSED ROAD/WORK AREA

NOTES:

1. EXISTING SIGNS THAT CONFLICT WITH DETOUR ROUTE SHALL BE MASKED



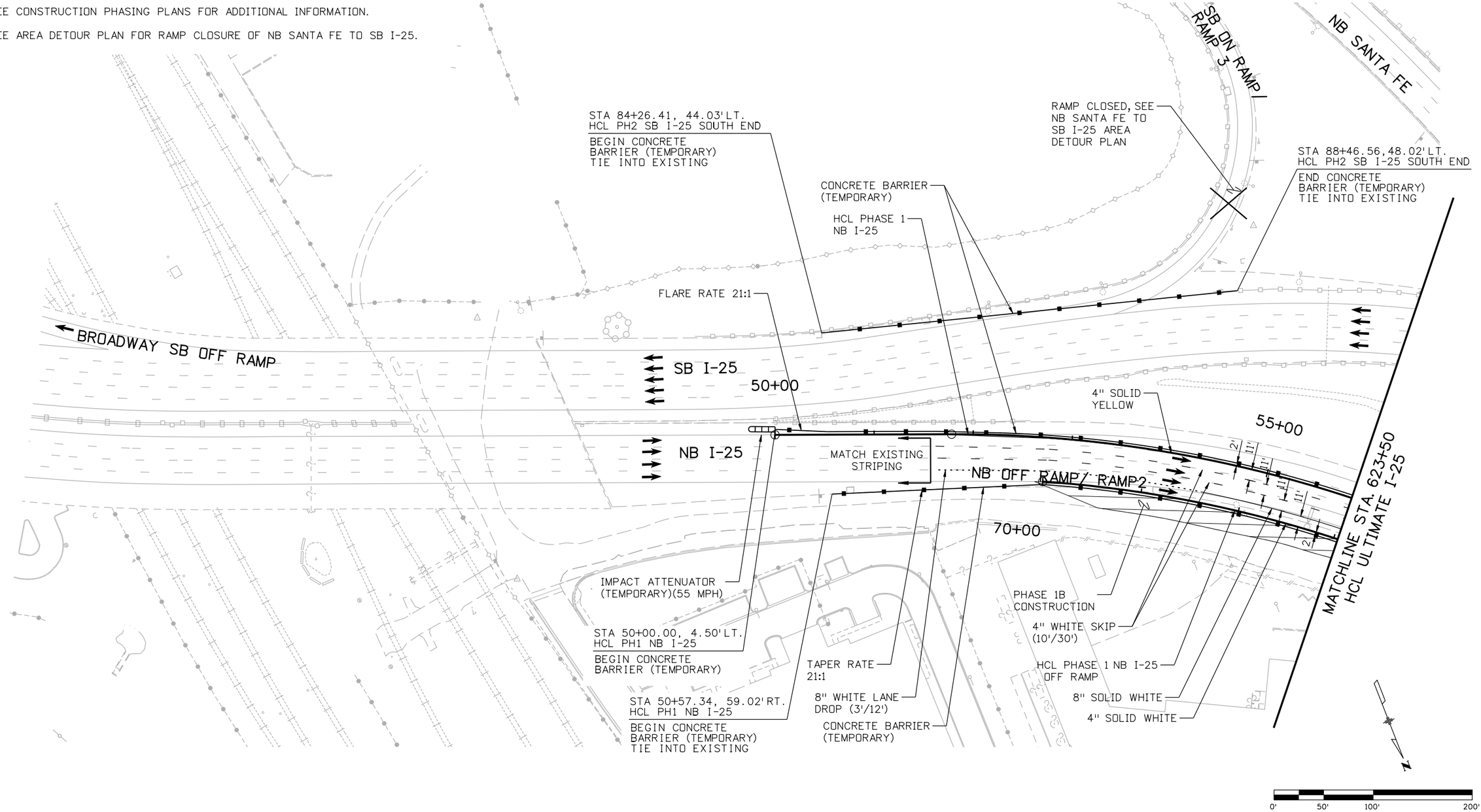
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311HA TRAF_PH2_I_25_RAMP_NORTH_CLOSURE01.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:250 Vert. Scale: As Noted	R-2	1-3-11	ISSUE SHEET	MLH	Region 6 RLB	Revised:
Unit Information Unit Leader Initials						Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE PHASE 7 - NB I-25 TO SANTA FE DR. RAMP CLOSURE			Project No./Code
Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Detailer: M. ROMERO			17783
Sheet Subset: TCP	Subset Sheets: 12 of 79		Sheet Number 606j B

kroth 1:32:46 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311HA TRAF_PH2_I_25_RAMP_NORTH_CLOSURE01.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE AREA DETOUR PLAN FOR RAMP CLOSURE OF NB SANTA FE TO SB I-25.



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Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Init.
MLH
MLH

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 1
I-25 TCP

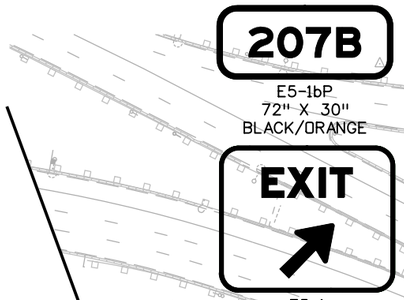
Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	13 of 79

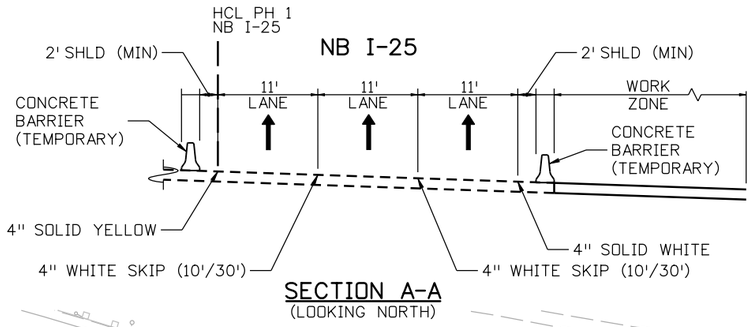
Project No./Code
BR 0252-407
17783
Sheet Number 607a B

kroth 1:32:53 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH1_plan01_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

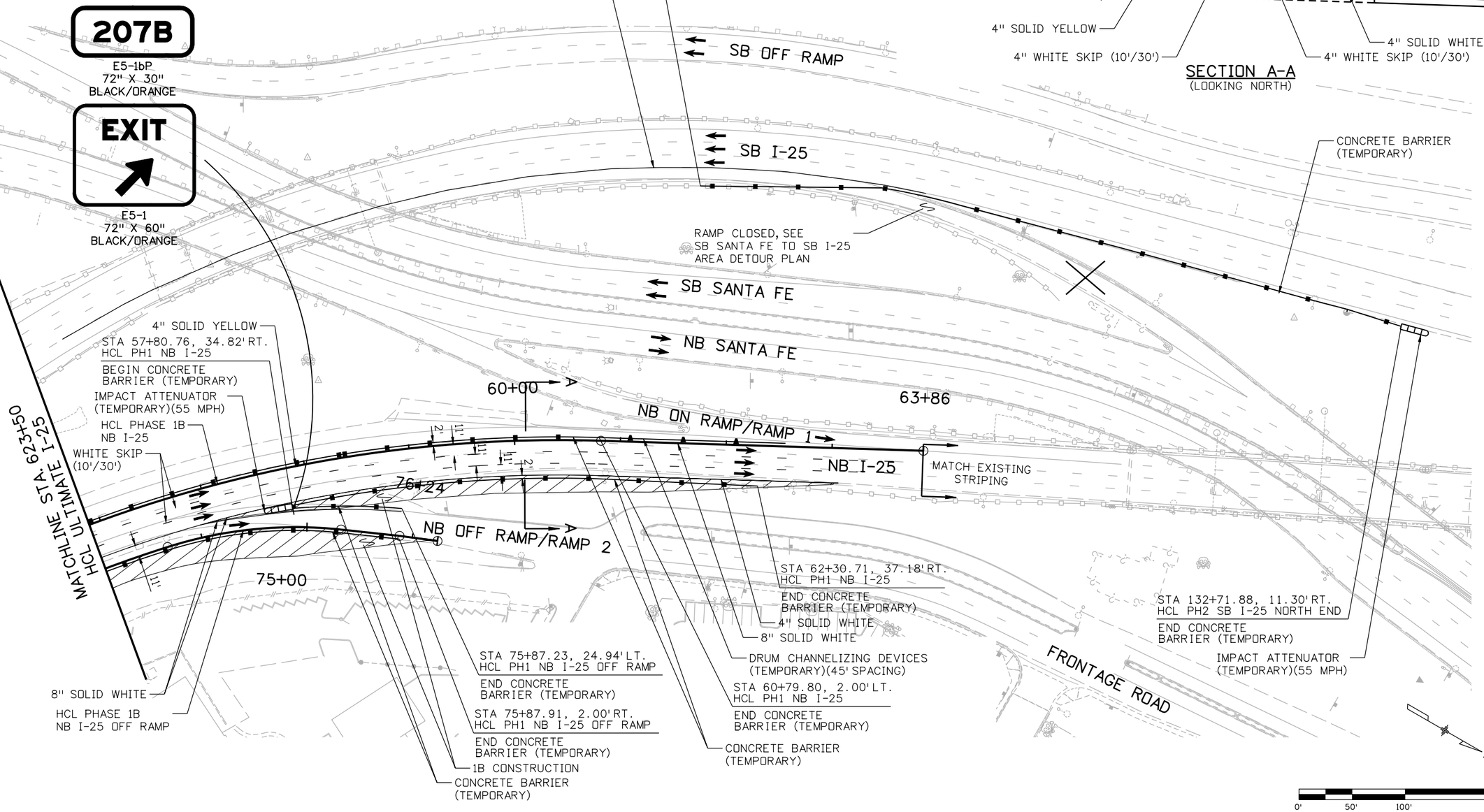
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SB SANTA FE TO SB I-25 AREA DETOUR PLAN FOR ADDITIONAL INFORMATION.





SECTION A-A
(LOOKING NORTH)



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH1_plan02_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP Subset Sheets: 14 of 79	Sheet Number 608a B

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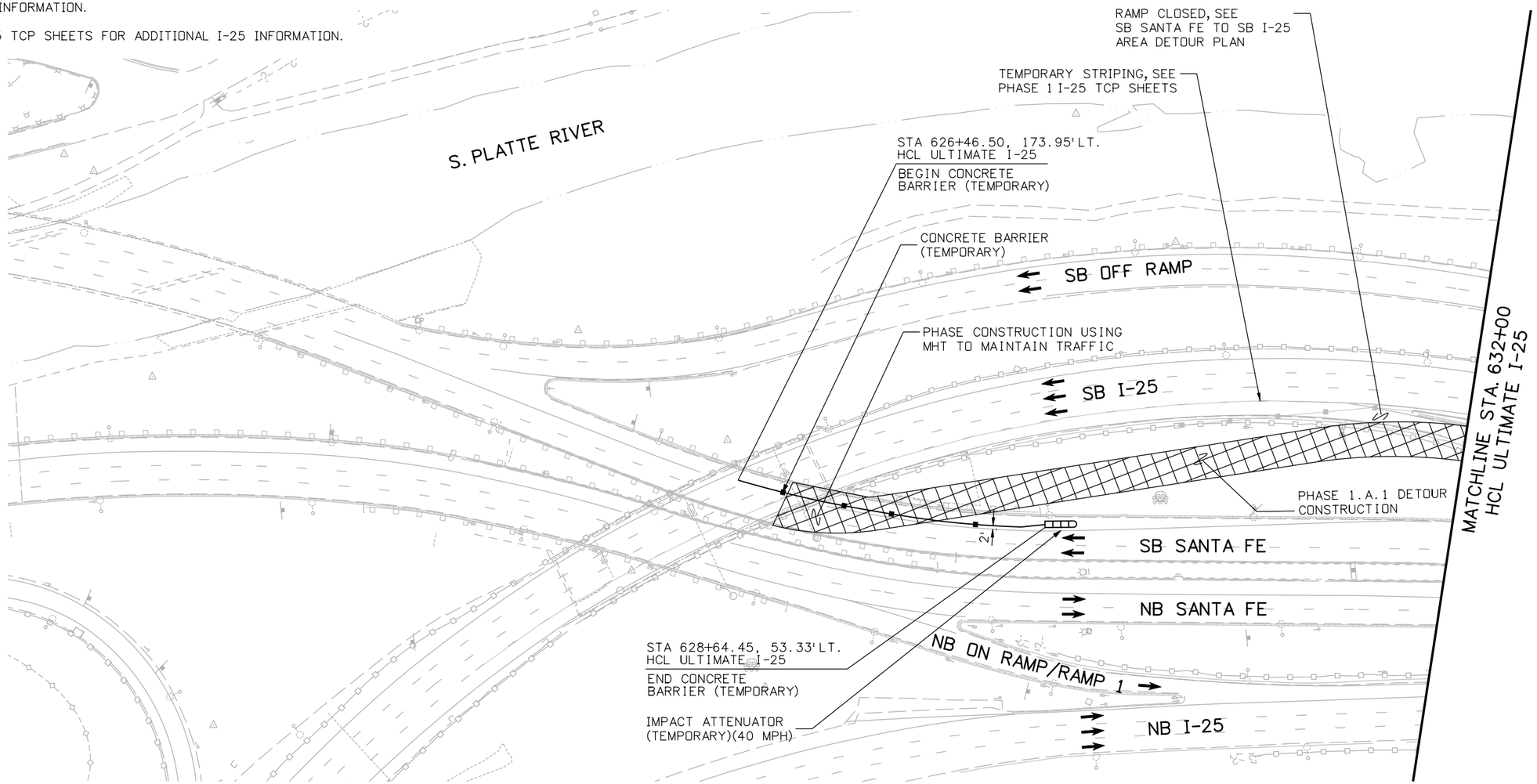
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SB SANTA FE TO SB I-25 AREA DETOUR PLAN FOR ADDITIONAL INFORMATION.
5. SEE PHASE 1 I-25 TCP SHEETS FOR ADDITIONAL I-25 INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1.A.1 SANTA FE TCP	Project No./Code
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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH			Detailer: K. ROTH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB	Void:	Sheet Subset: TCP / Subset Sheets: 15 of 79	Sheet Number 609a B

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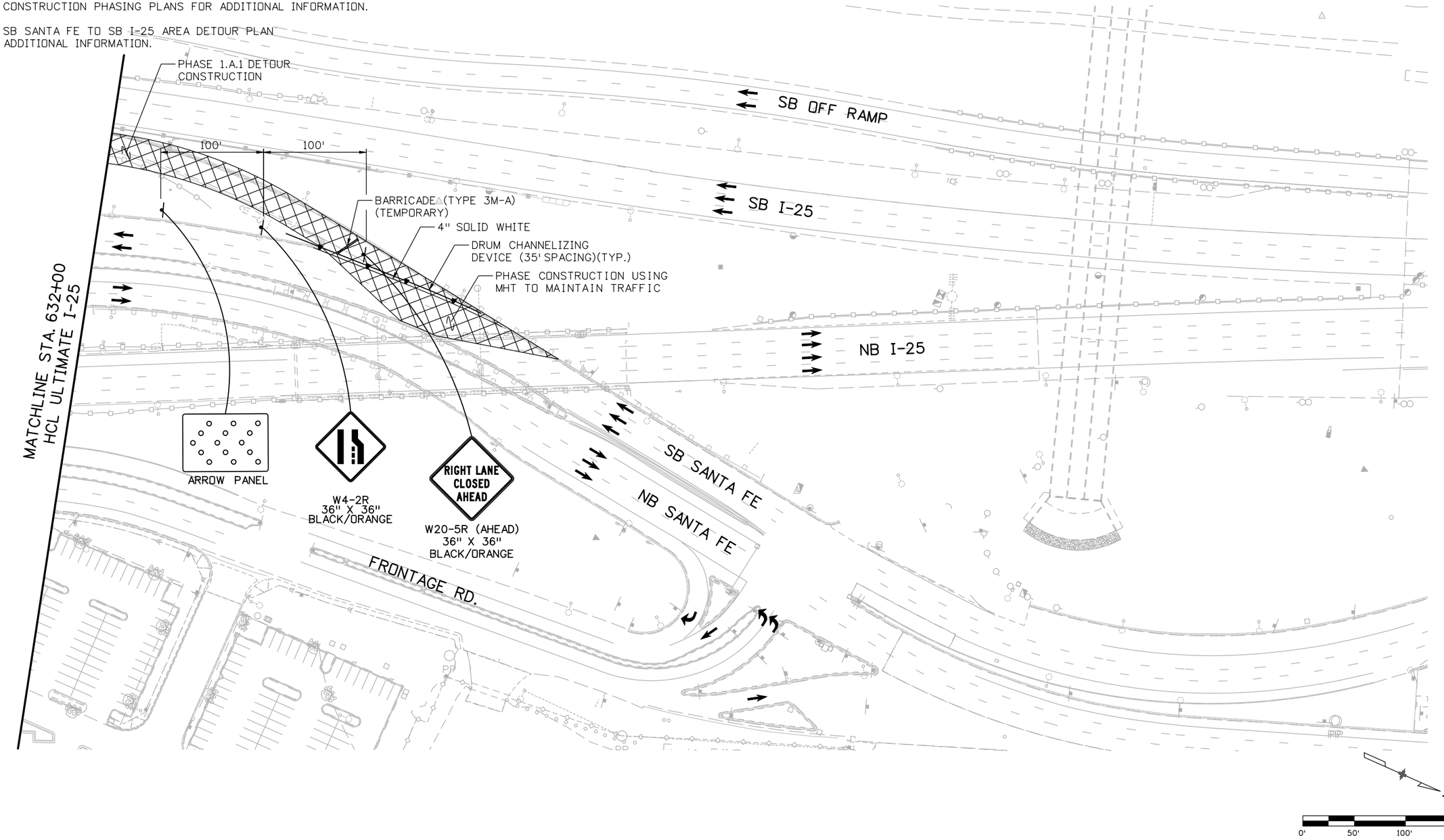
16311 HA TRAF_ PH2_TCP_PH1a1_plan01_Santa_Fe.dgn 12/22/2010 1:33:09 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SB SANTA FE TO SB I-25 AREA DETOUR PLAN FOR ADDITIONAL INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1.A.1 SANTA FE TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH1a1_plan02_Santa_Fe.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers:	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: 16 of 79	Sheet Number 610a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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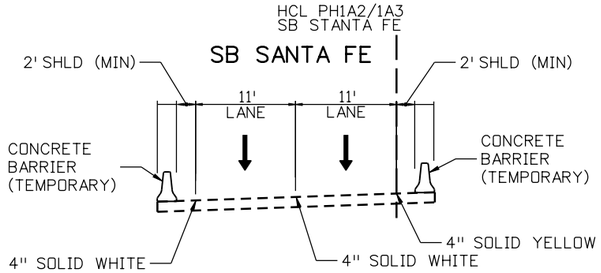
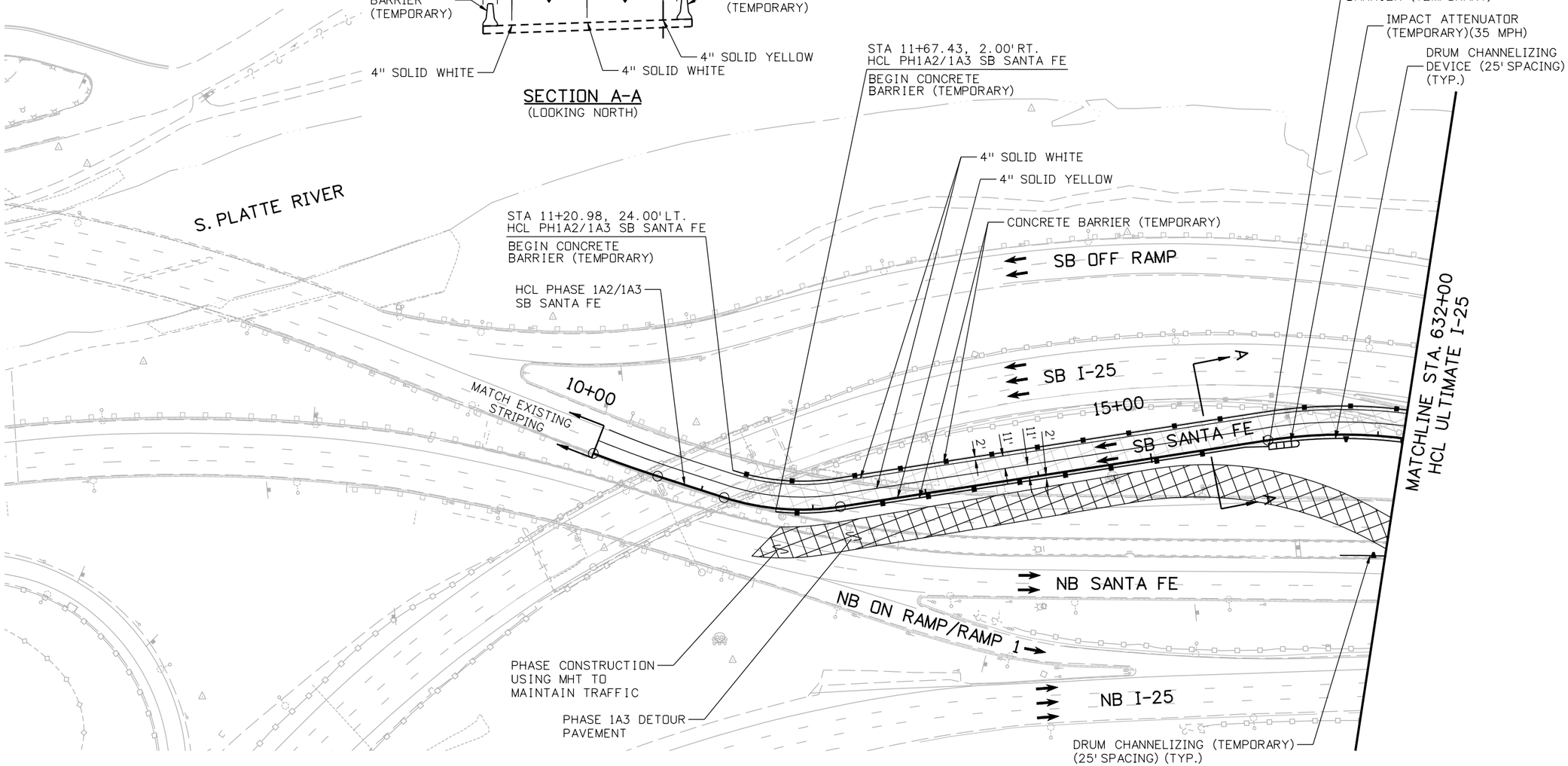
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



SECTION A-A
(LOOKING NORTH)



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File Name: 16311 HA TRAF_ PH2_TCP_PH1a2_1a3_plan01_Santa_Fe.dgn	Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1 12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	R-2 1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 1.A.2/1.A.3
SANTA FE TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	17 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 611a B

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12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

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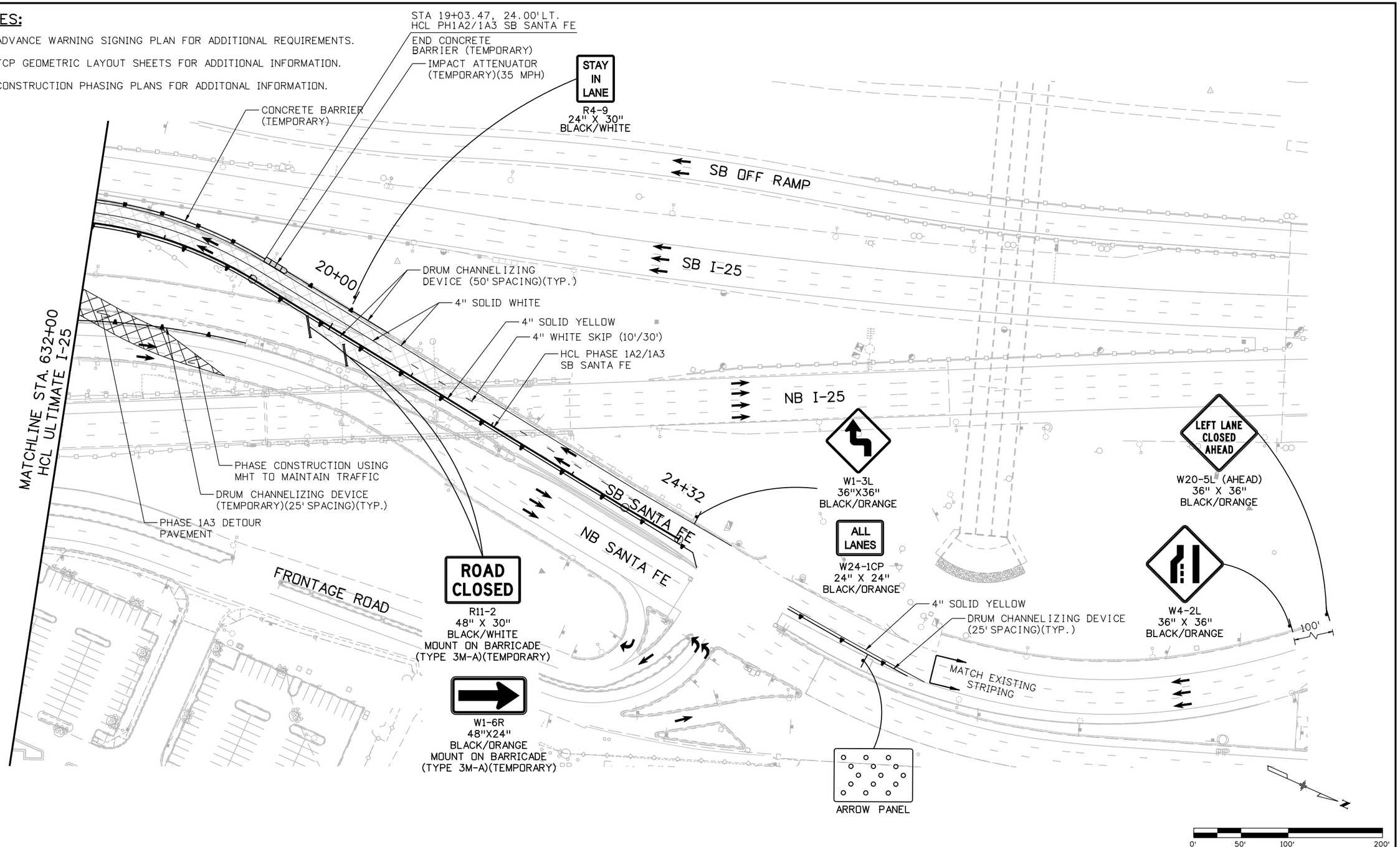
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1 12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	R-2 1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1.A.2/1.A.3 SANTA FE TCP			Project No./Code
No Revisions:	Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Revised:	Detailer: K. ROTH			17783
Void:	Sheet Subset: TCP	Subset Sheets: 18 of 79		Sheet Number 612a B

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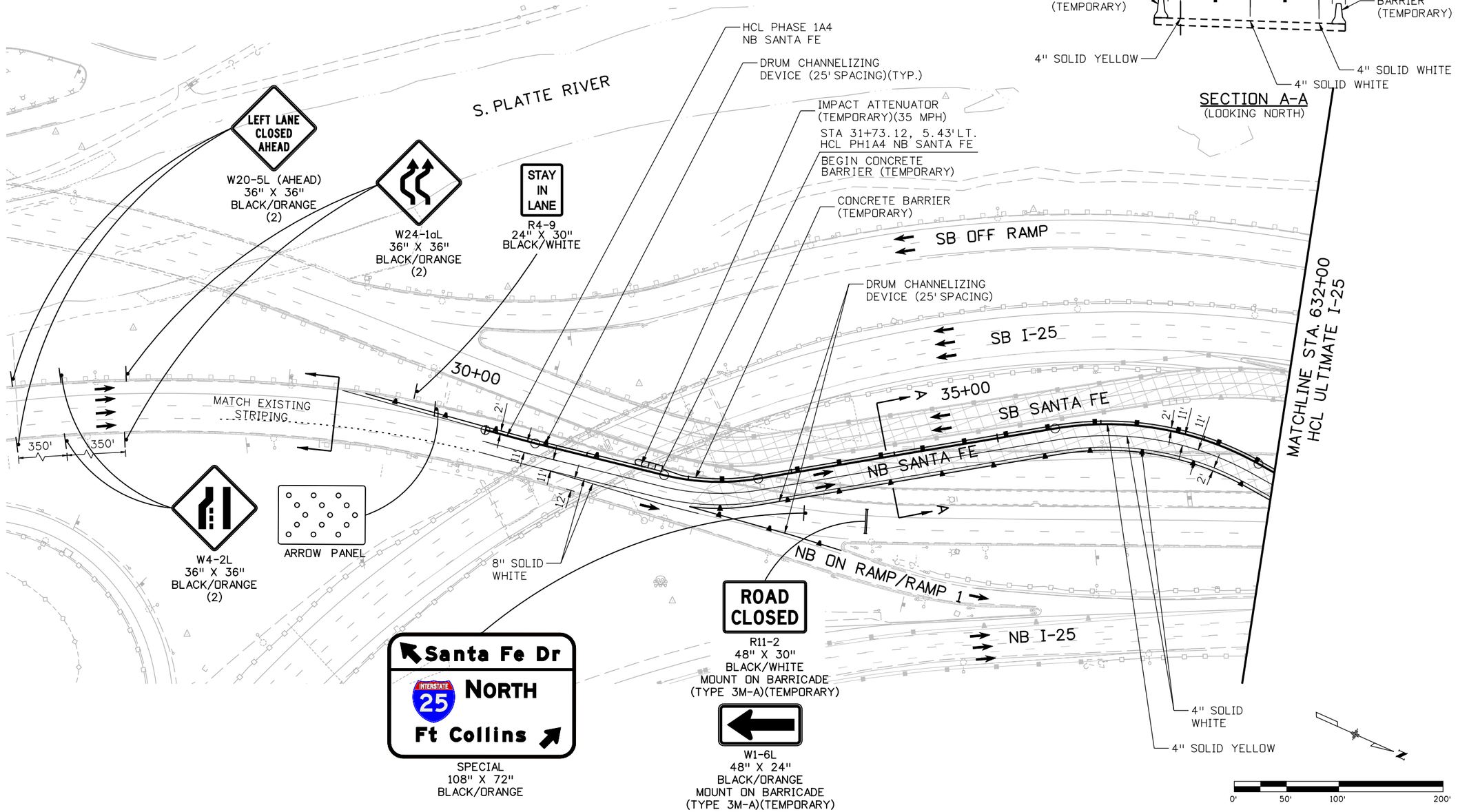
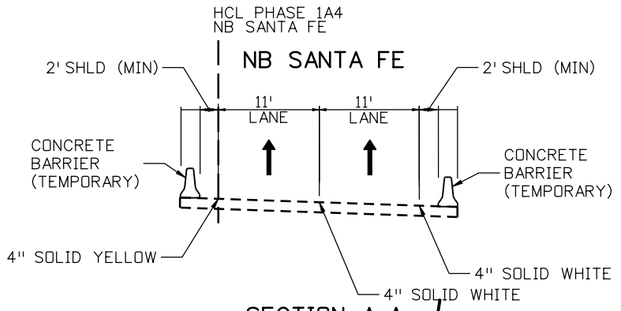
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SANTA FE PHASE 1A2/1A3 FOR SOUTHBOUND SANTA FE PHASE 1 TCP INFORMATION.





SECTION A-A
(LOOKING NORTH)

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE PHASE 1.A.4 SANTA FE TCP			Project No./Code
Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Detailer: K. ROTH			17783
Sheet Subset: TCP	Subset Sheets: 19 of 79		Sheet Number 613a B

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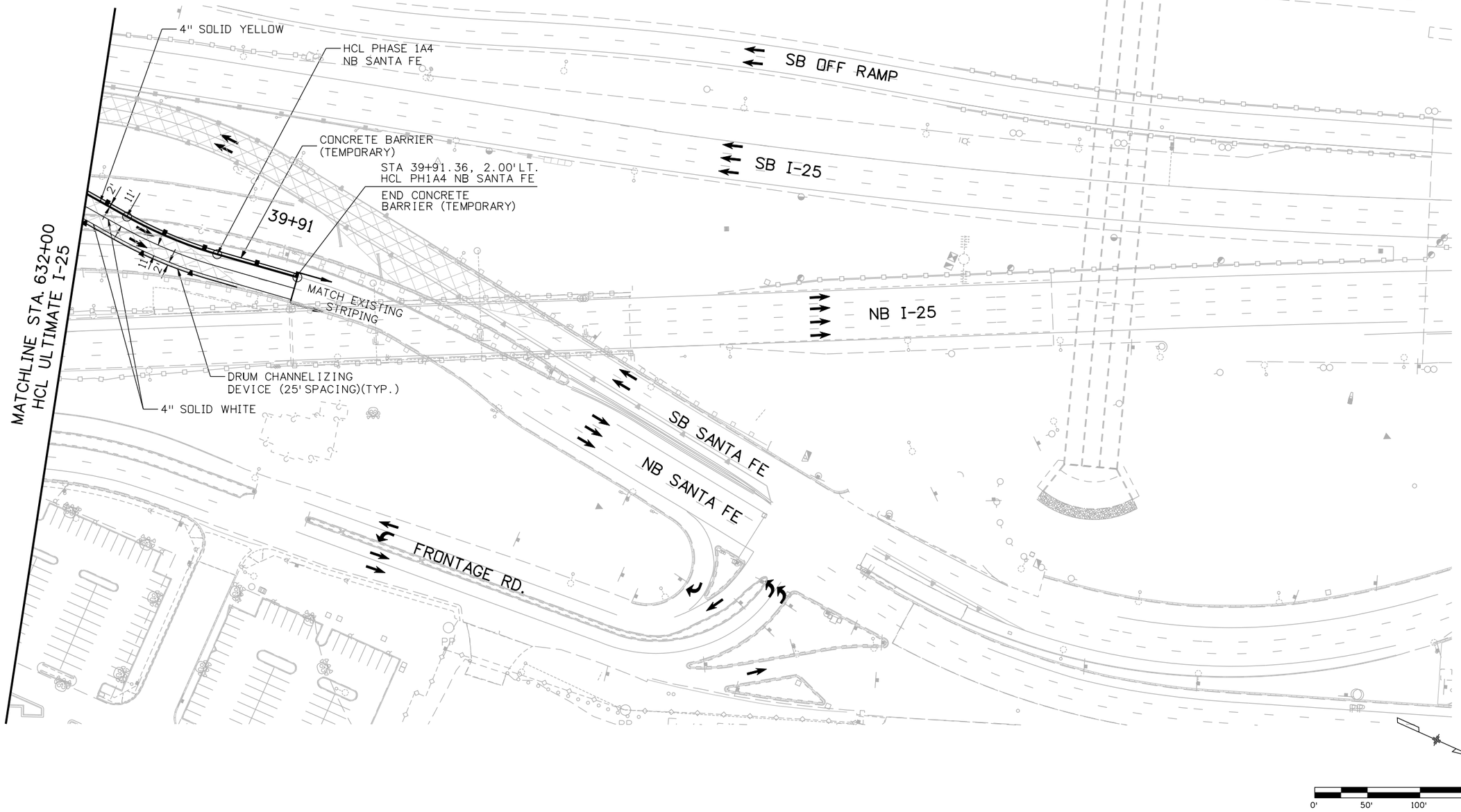
16311 HA TRAF_ PH2_TCP_PH1a4_plan01_Santa_Fe.dgn 12/22/2010 1:33:38 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITONAL INFORMATION.
4. SEE SANTA FE PHASE 1A2/1A3 FOR SOUTHBOUND SANTA FE PHASE 1 TCP INFORMATION.



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Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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Denver, CO 80222
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Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 1.A.4 SANTA FE TCP		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers	17783
Void:	Detailer: K. ROTH		Sheet Number 614a B
	Sheet Subset: TCP	Subset Sheets: 20 of 79	

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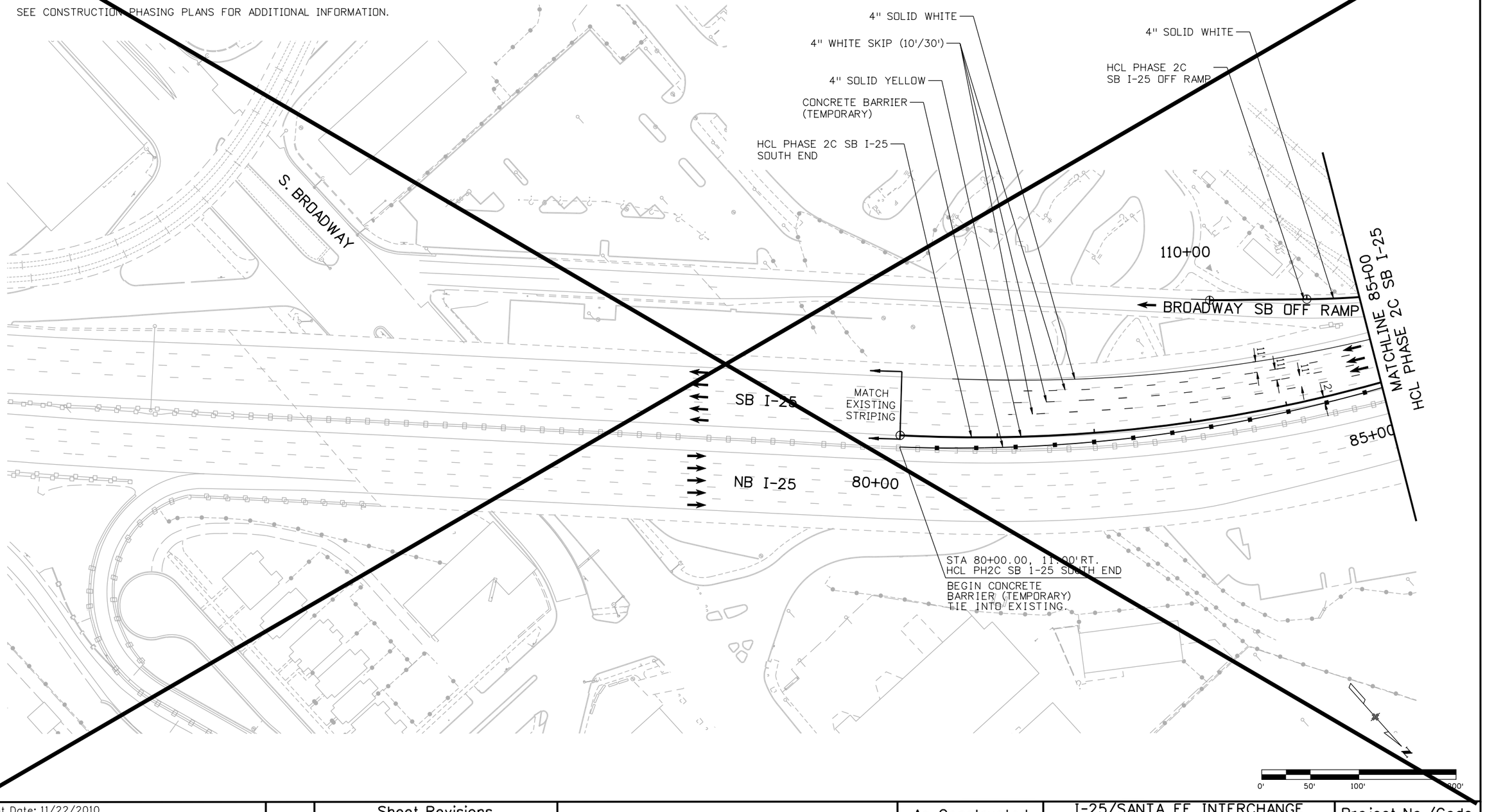
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100.084 Vert. Scale: As Noted	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Colorado Department of Transportation
DOT — DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2
I-25 TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	XX of XX

Project No./Code
BR 0252-407
17783
Sheet Number 615a A

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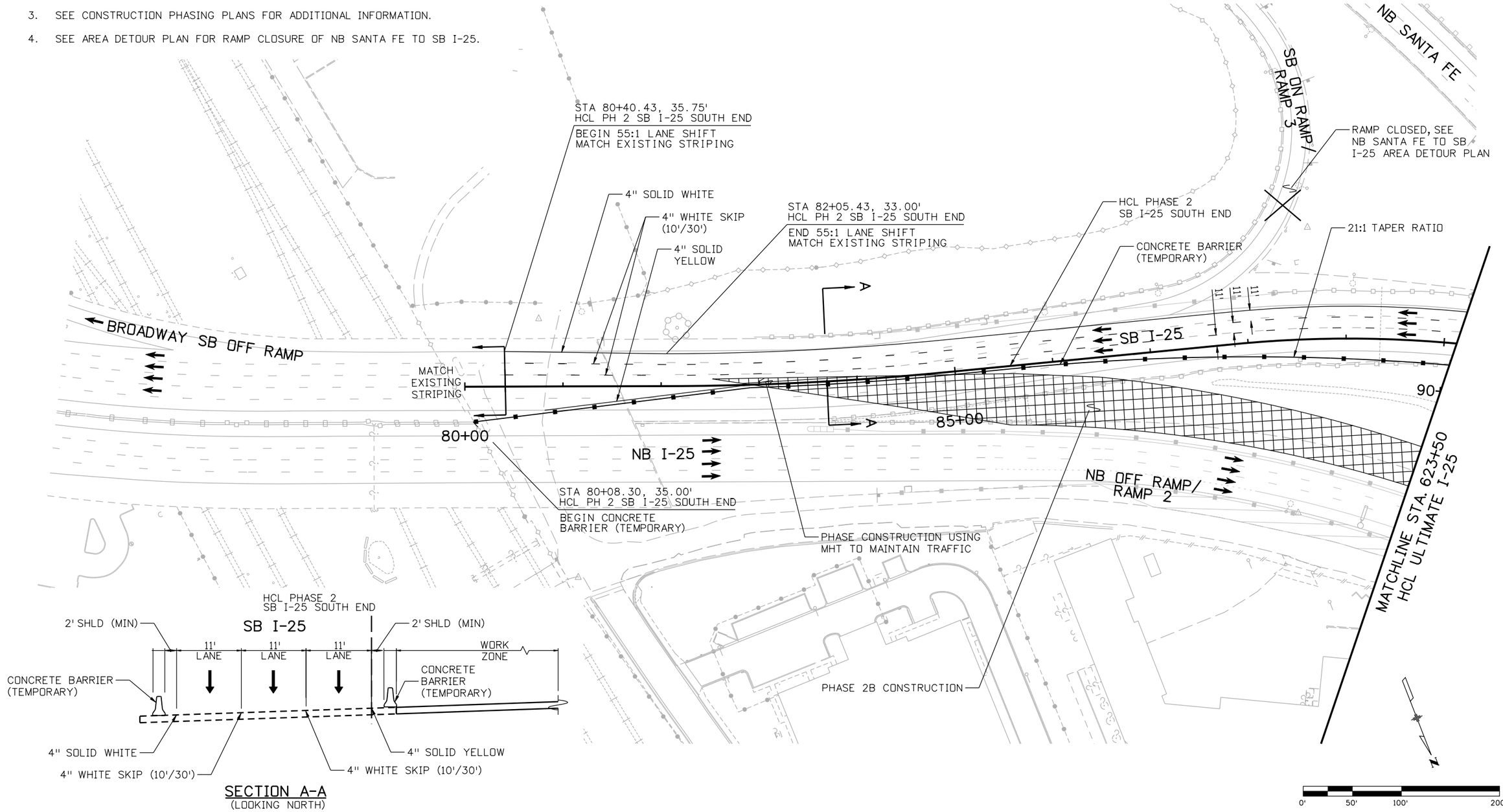
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE AREA DETOUR PLAN FOR RAMP CLOSURE OF NB SANTA FE TO SB I-25.



SECTION A-A
(LOOKING NORTH)

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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2
I-25 TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 21 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 616a B

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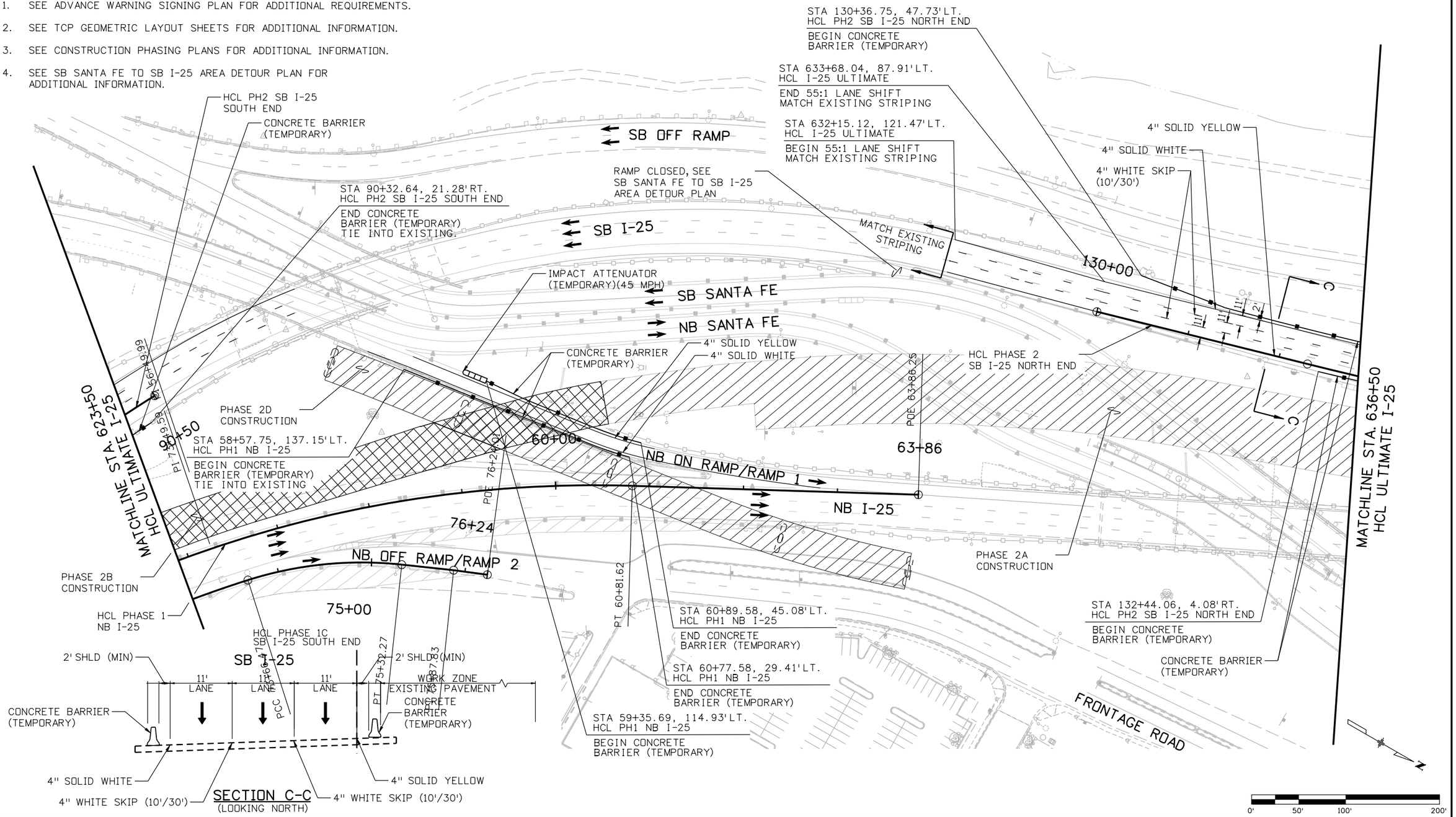
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SB SANTA FE TO SB I-25 AREA DETOUR PLAN FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2
I-25 TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 22 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 617a B

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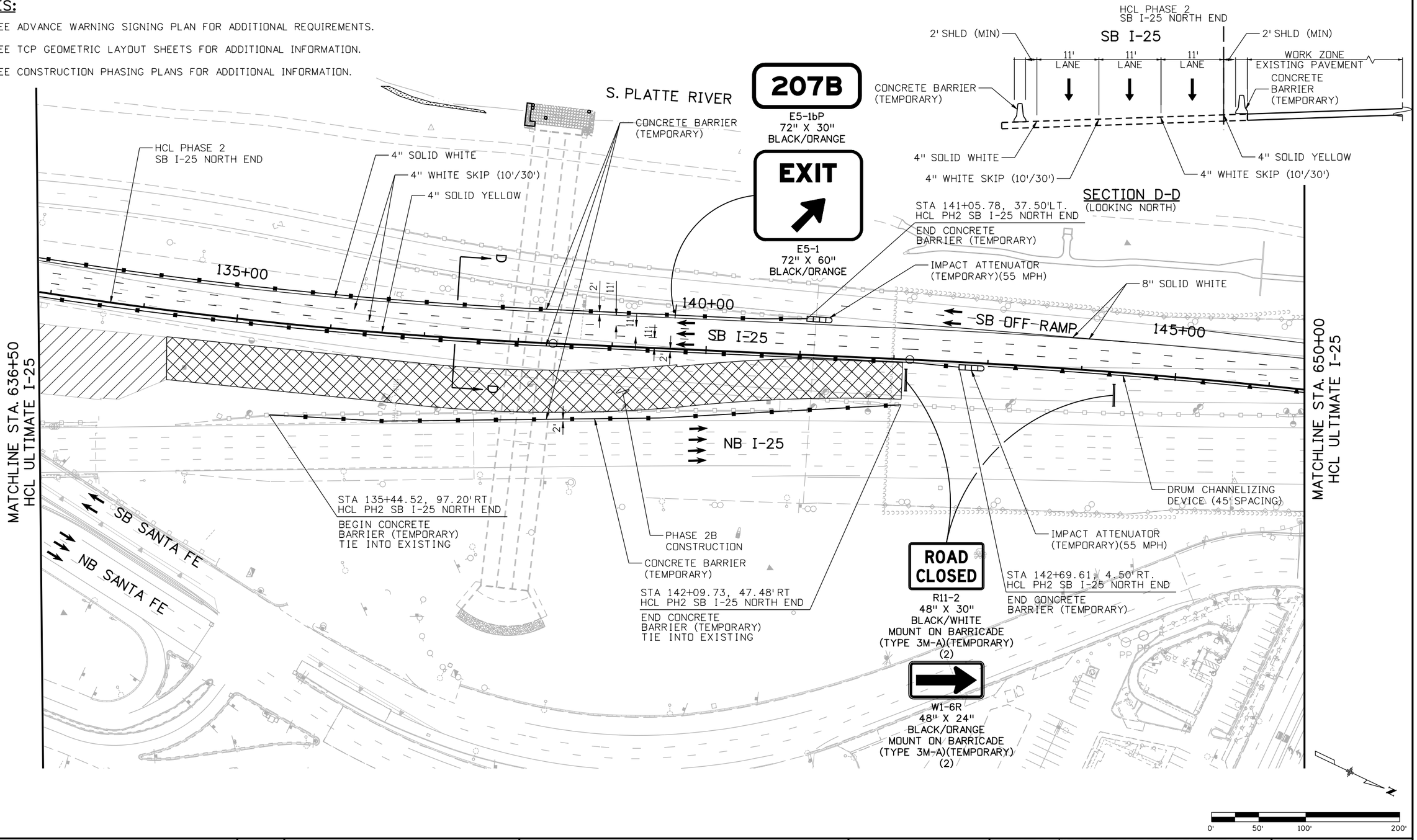
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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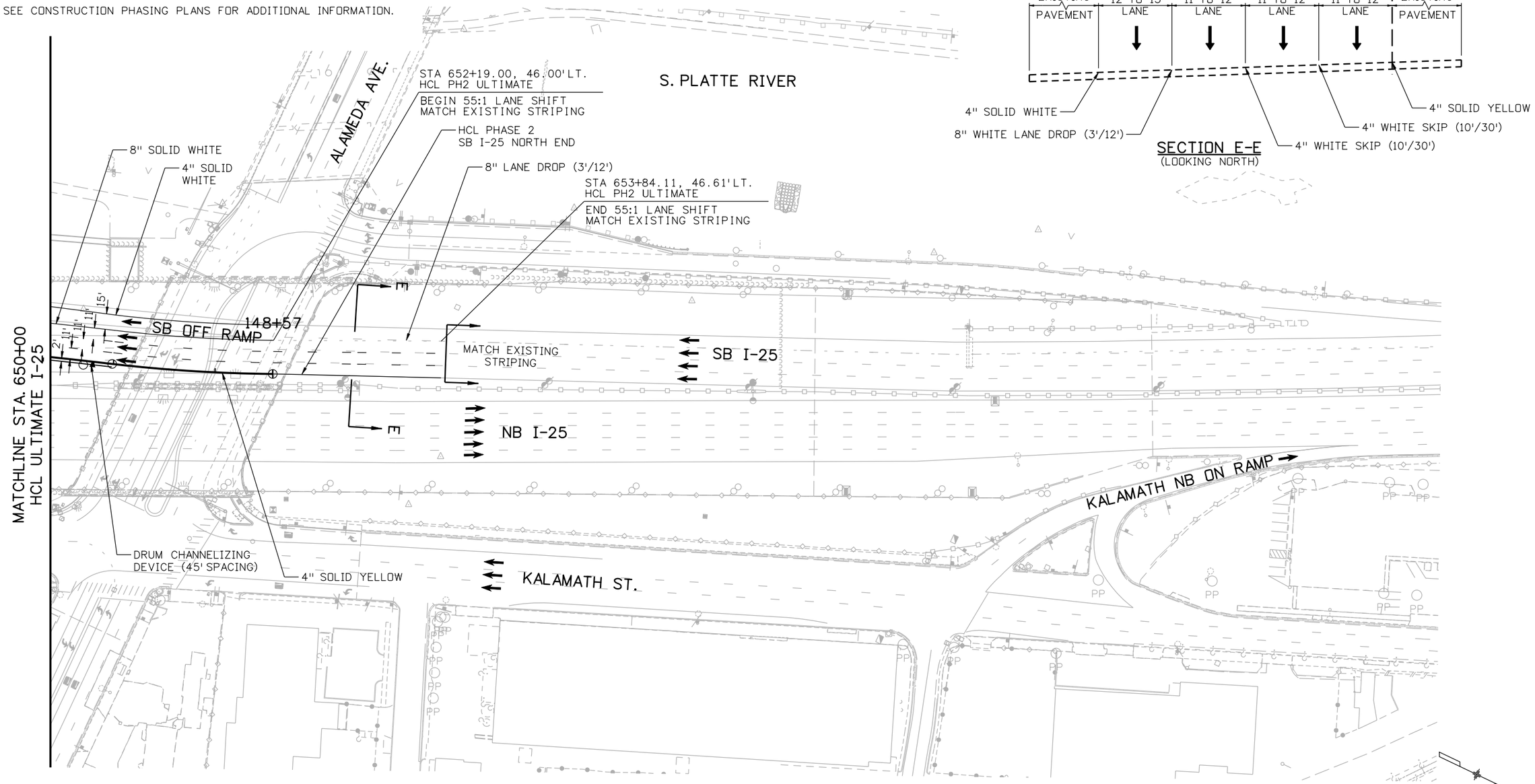
File Name: 16311 HA TRAF_ PH2_TCP_PH2_plan04_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

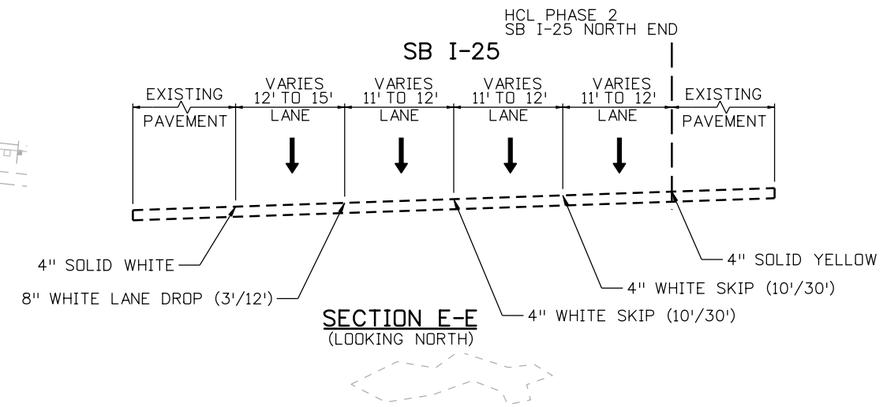
As Constructed	I-25/SANTA FE INTERCHANGE PHASE 2 I-25 TCP			Project No./Code
No Revisions:	Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Revised:	Detailer: K. ROTH			17783
Void:	Sheet Subset: TCP	Subset Sheets: 23 of 79		Sheet Number 618a B

kroth 1:34:12 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH2_plan04_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.





SECTION E-E
(LOOKING NORTH)

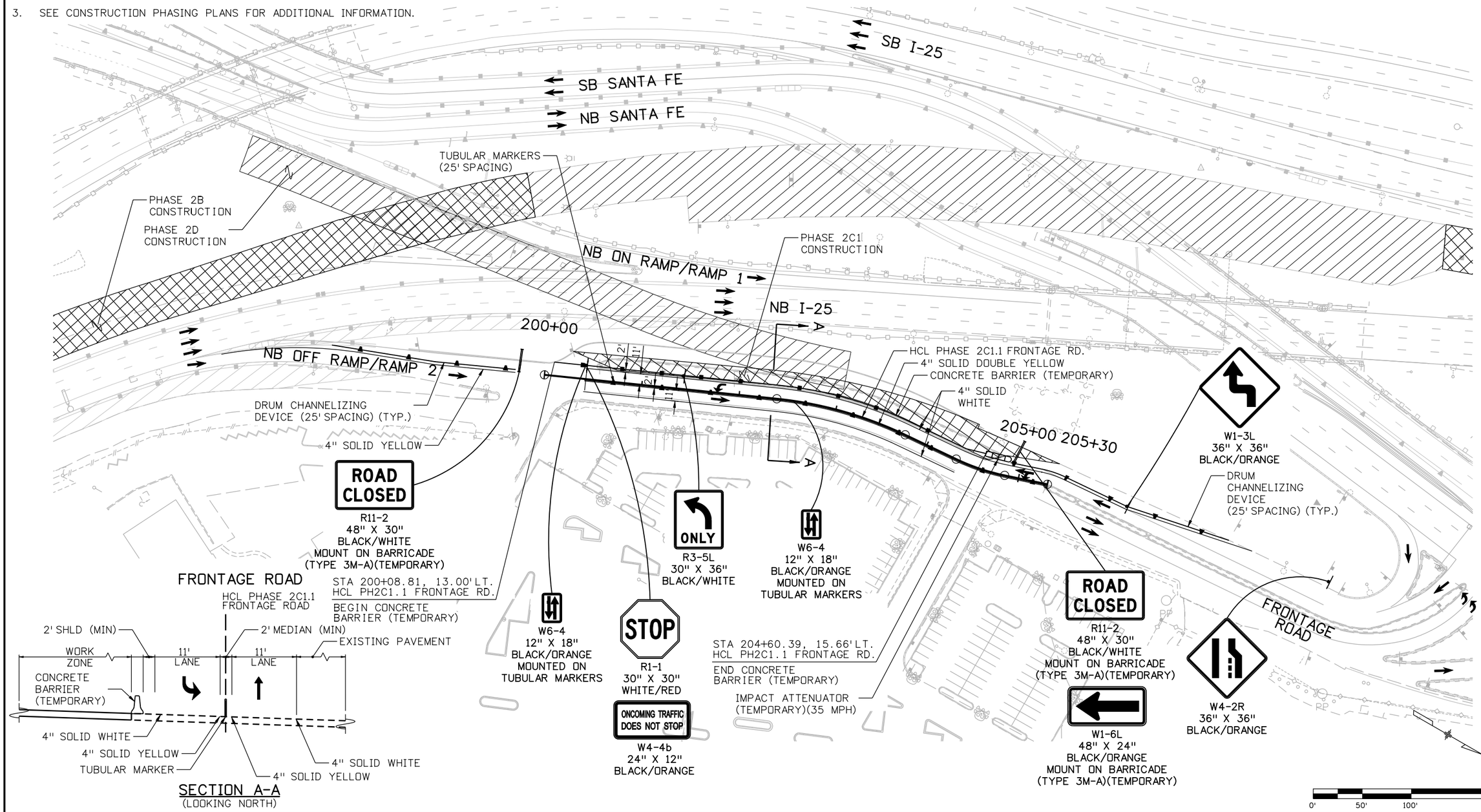
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 16311 HA TRAF_ PH2_TCP_PH2_plan05_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB	Revised:
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH		Void:
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						

I-25/SANTA FE INTERCHANGE PHASE 2 I-25 TCP			Project No./Code
Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Detailer: K. ROTH			17783
Sheet Subset: TCP	Subset Sheets: 24 of 79		Sheet Number 619a B

kroth 1:34:21 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH2_plan05_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



SECTION A-A
(LOOKING NORTH)

Print Date: 12/22/2010		Sheet Revisions		
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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 2.C.1.1
FRONTAGE TCP

Designer: M. HARTWIG	Structure Numbers	
Detailer: K. ROTH		
Sheet Subset: TCP	Subset Sheets: 25 of 79	

Project No./Code	
BR 0252-407	
17783	
Sheet Number	620a B

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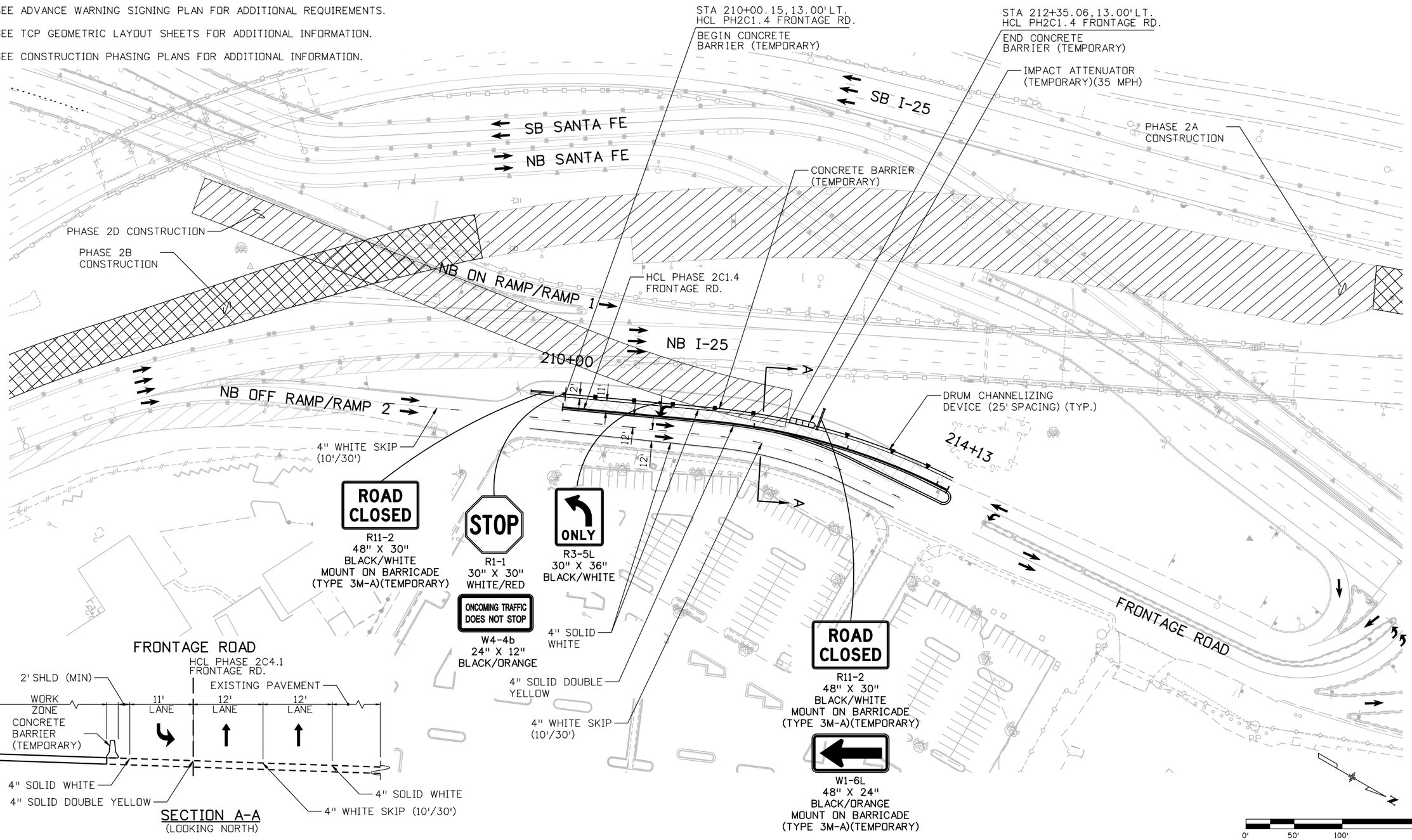
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



Print Date: 12/22/2010		Sheet Revisions		
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Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2.C.1.4
FRONTAGE TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 26 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 621a B

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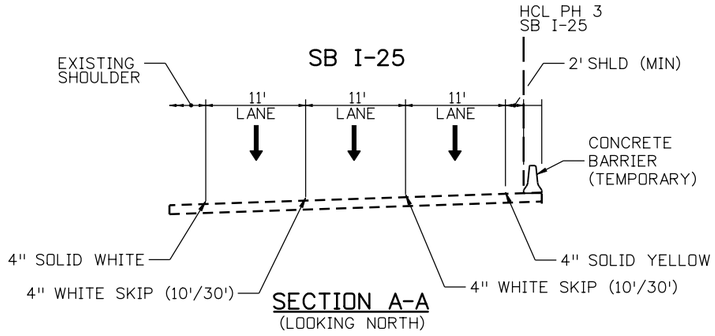
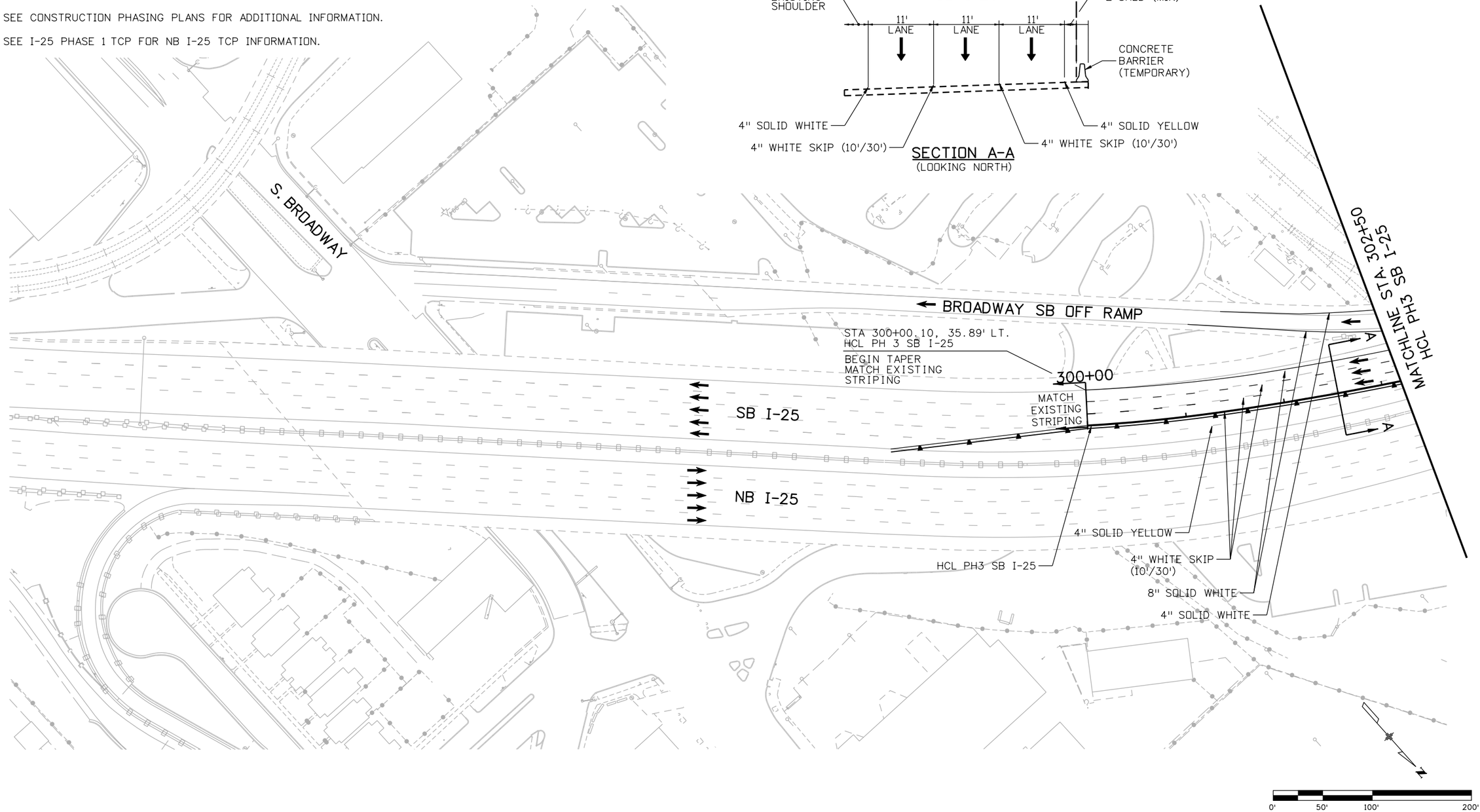
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 TCP FOR NB I-25 TCP INFORMATION.



SECTION A-A
(LOOKING NORTH)



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311 HA TRAF_ PH2_TCP_PH3_plan01_I-25.dgn	R-1	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100.084 Vert. Scale: As Noted	R-2	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials		1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3 I-25 TCP		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers	17783
Void:	Detailer: K. ROTH		Sheet Number 622a B
	Sheet Subset: TCP	Subset Sheets: 27 of 79	

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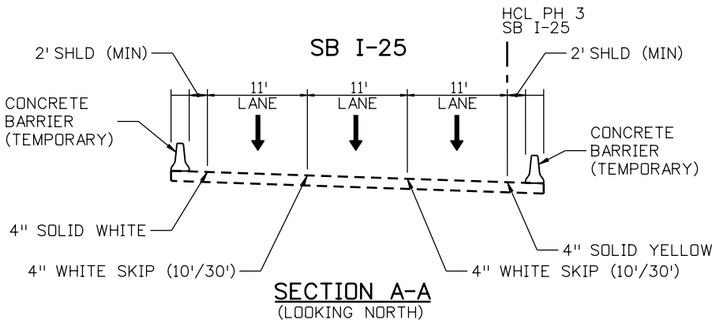
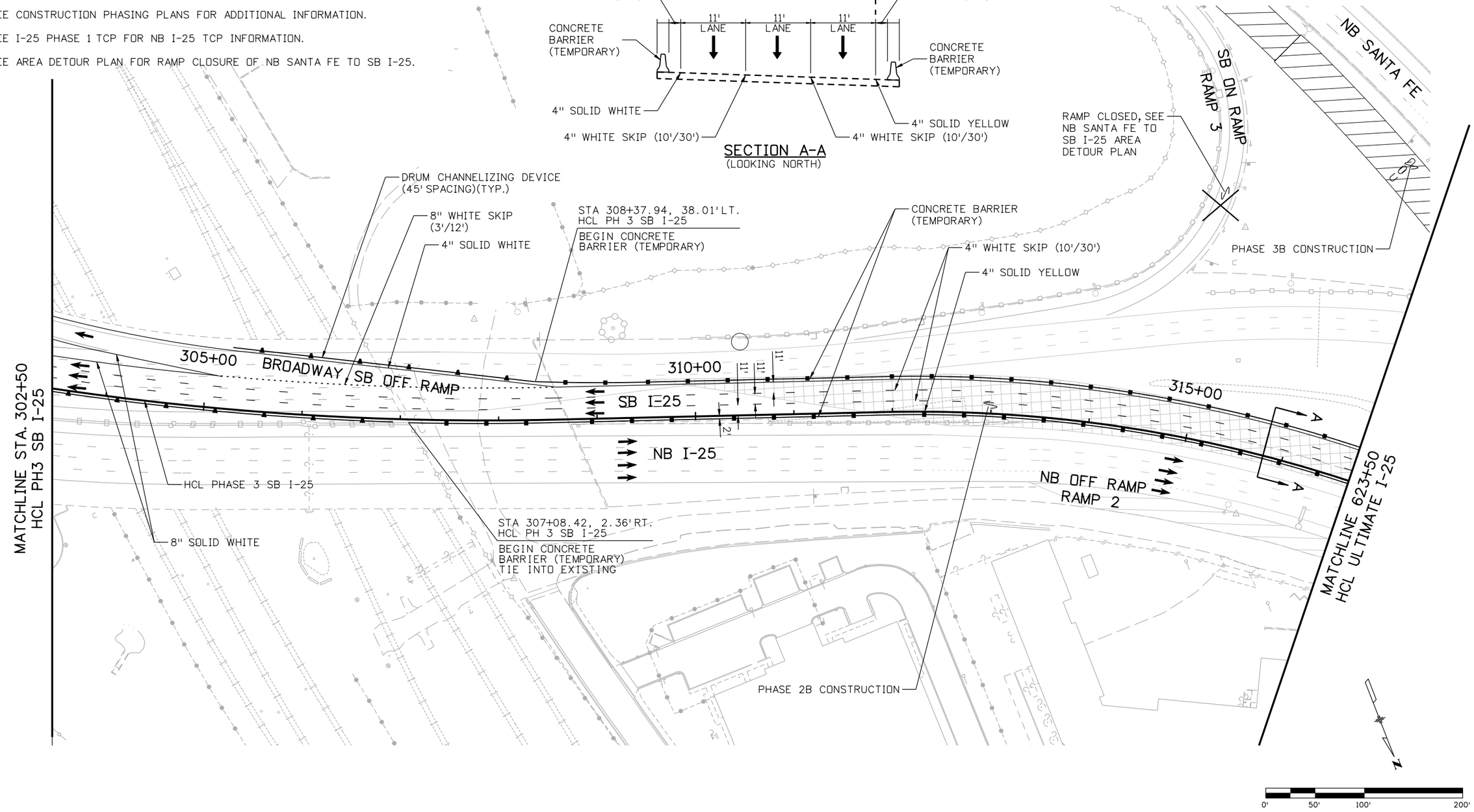
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 TCP FOR NB I-25 TCP INFORMATION.
5. SEE AREA DETOUR PLAN FOR RAMP CLOSURE OF NB SANTA FE TO SB I-25.



SECTION A-A
(LOOKING NORTH)



Print Date: 12/22/2010		Sheet Revisions		
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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 3
I-25 TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 28 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 623a B

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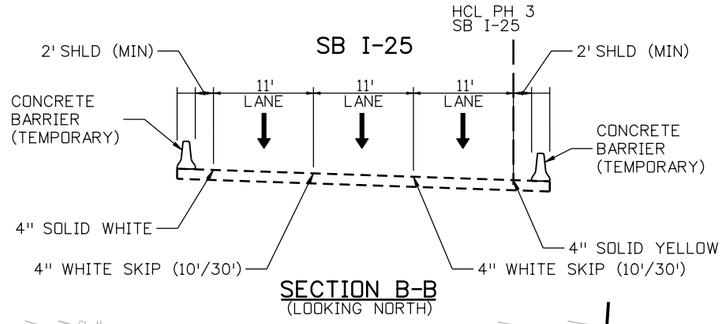
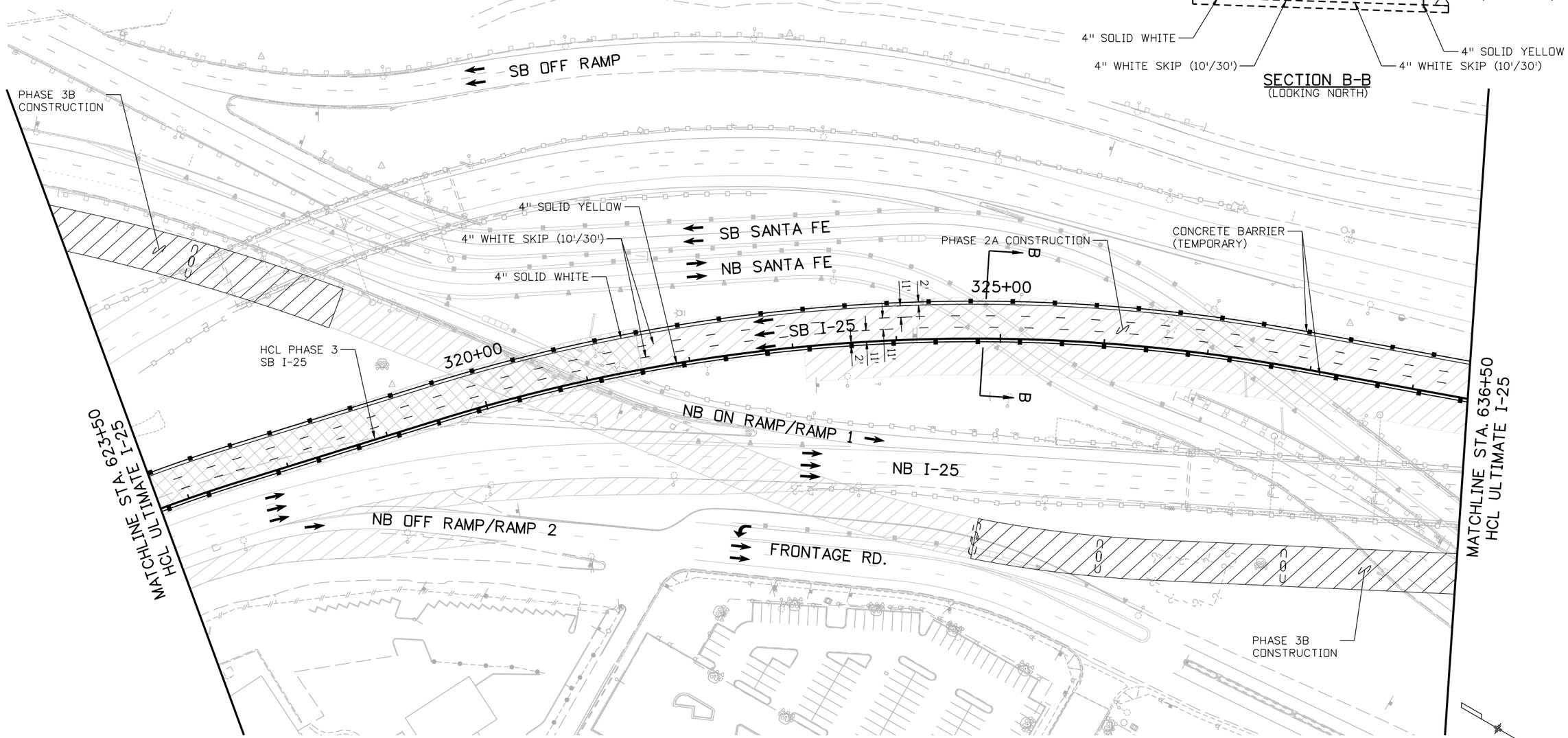
16311 HA TRAF_ PH2_TCP_PH3_plan02_I-25.dgn 12/22/2010 1:35:54 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 TCP FOR NB I-25 TCP INFORMATION.



SECTION B-B
(LOOKING NORTH)



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3_plan03_I-25.dgn		Date:	Comments	Init.		No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: M. HARTWIG / Structure Numbers:	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH		Void:	Detailer: K. ROTH / Structure Numbers:	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB		Sheet Subset: TCP / Subset Sheets: 29 of 79	Sheet Number 624a B

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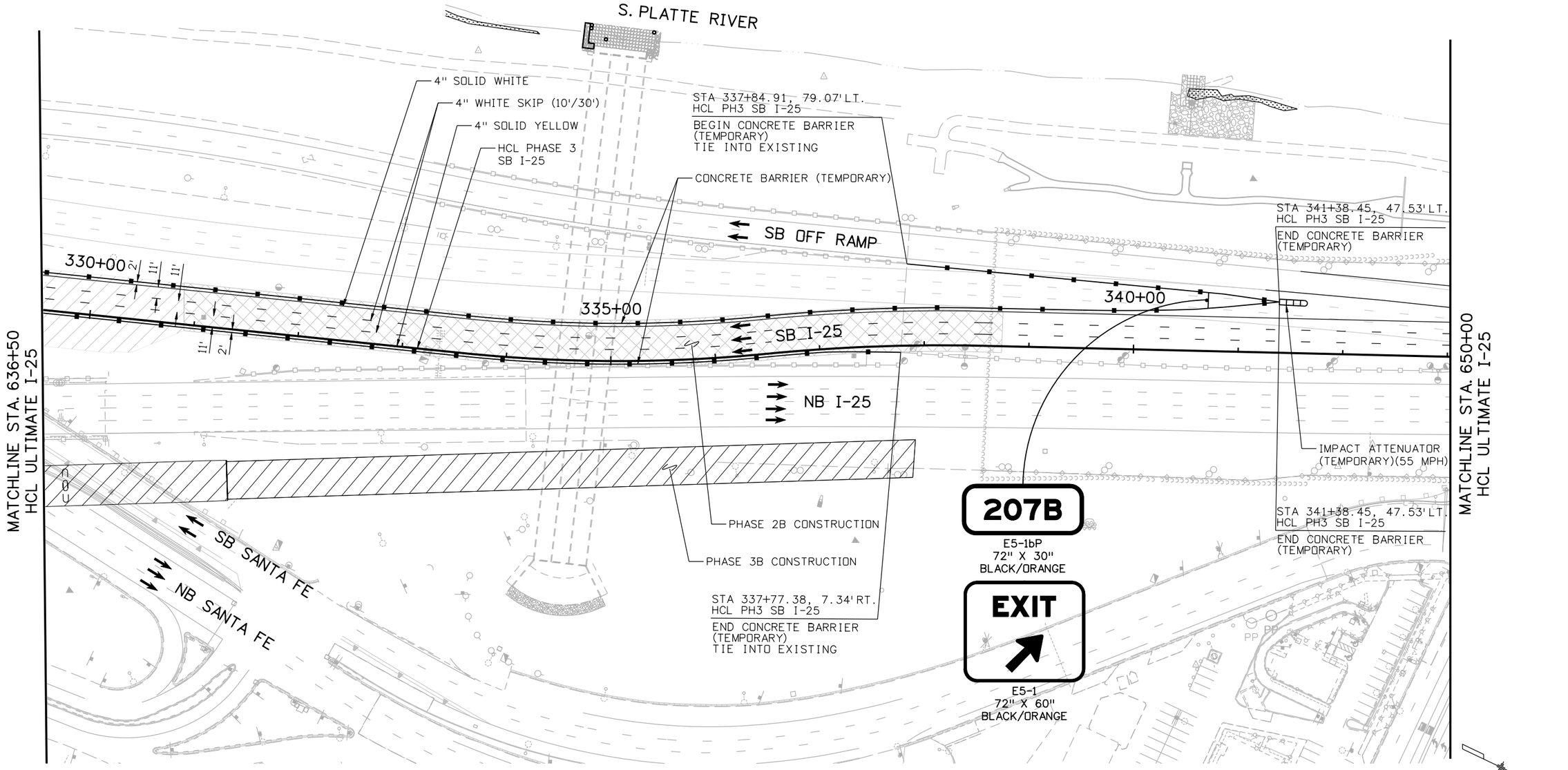
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH3_plan03_I-25.dgn 12/22/2010 1:36:01 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3 I-25 TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			
	Sheet Subset: TCP	Subset Sheets: 30 of 79		Sheet Number 625a B

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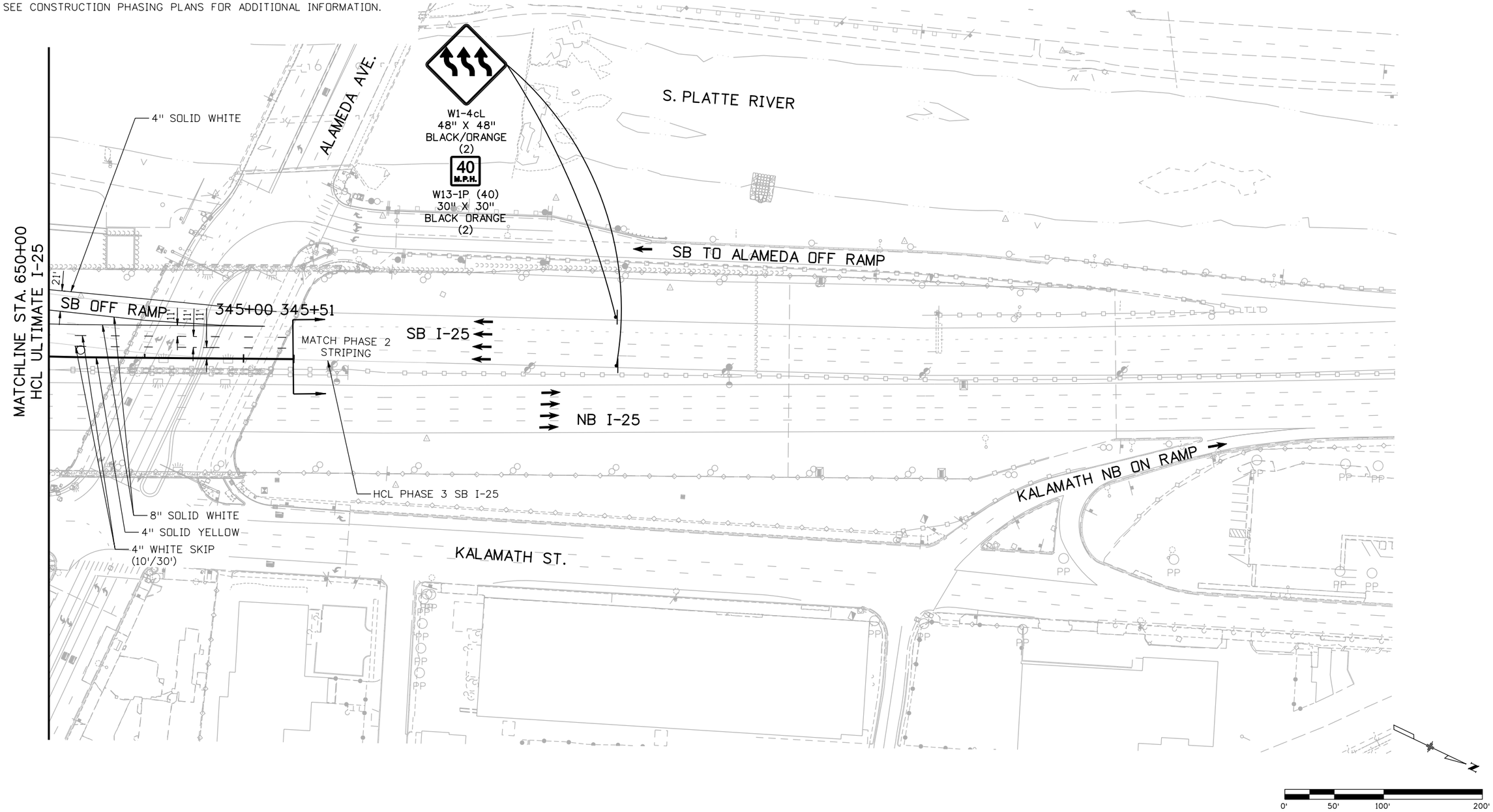
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3_plan05_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers:	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: 31 of 79	Sheet Number 626a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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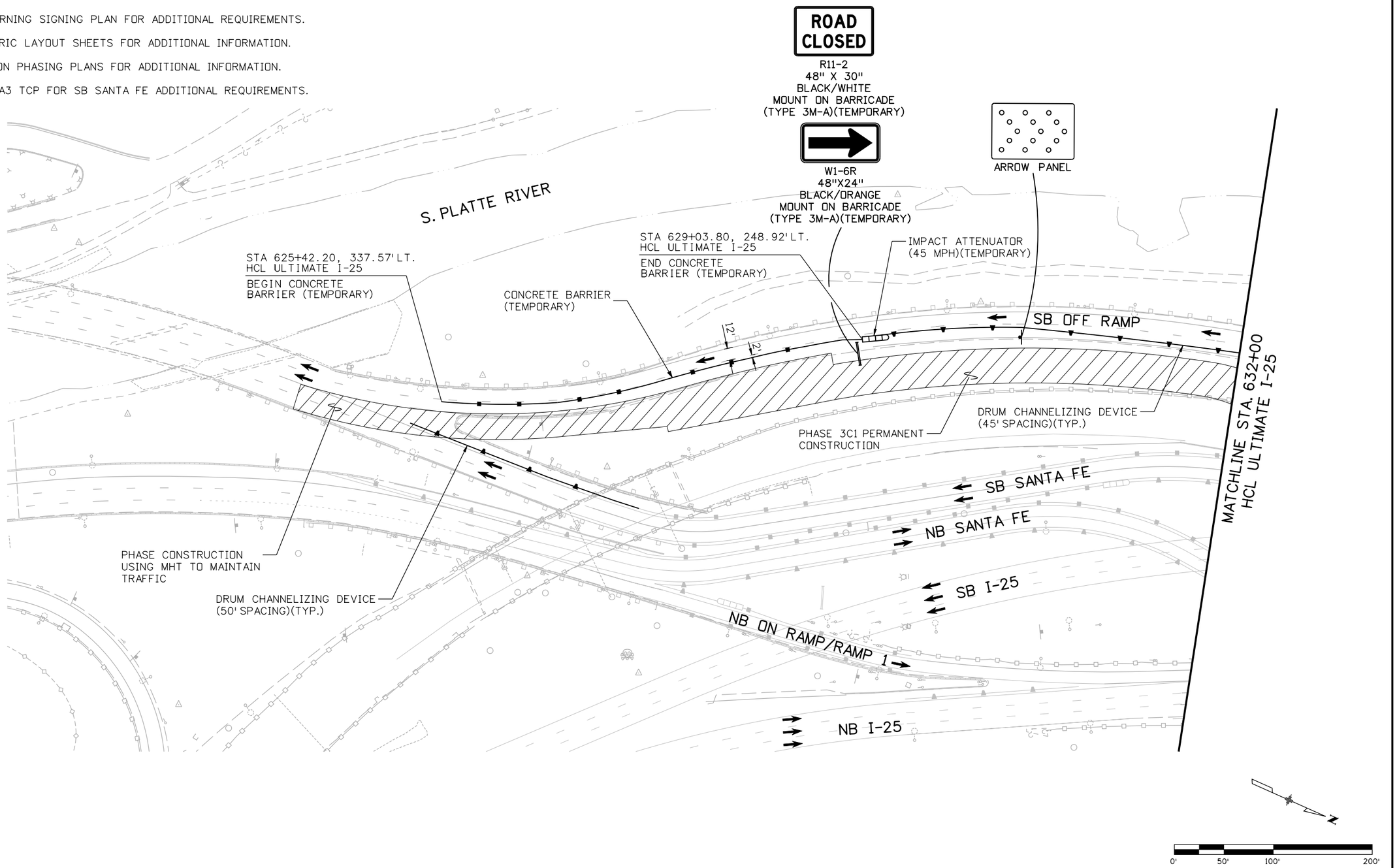
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE PHASE 1A2/1A3 TCP FOR SB SANTA FE ADDITIONAL REQUIREMENTS.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.1 SANTA FE TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3c1_plan01_Santa_Fe.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH			Detailer: K. ROTH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB	Void:	Sheet Subset: TCP / Subset Sheets: 32 of 79	Sheet Number 627a B

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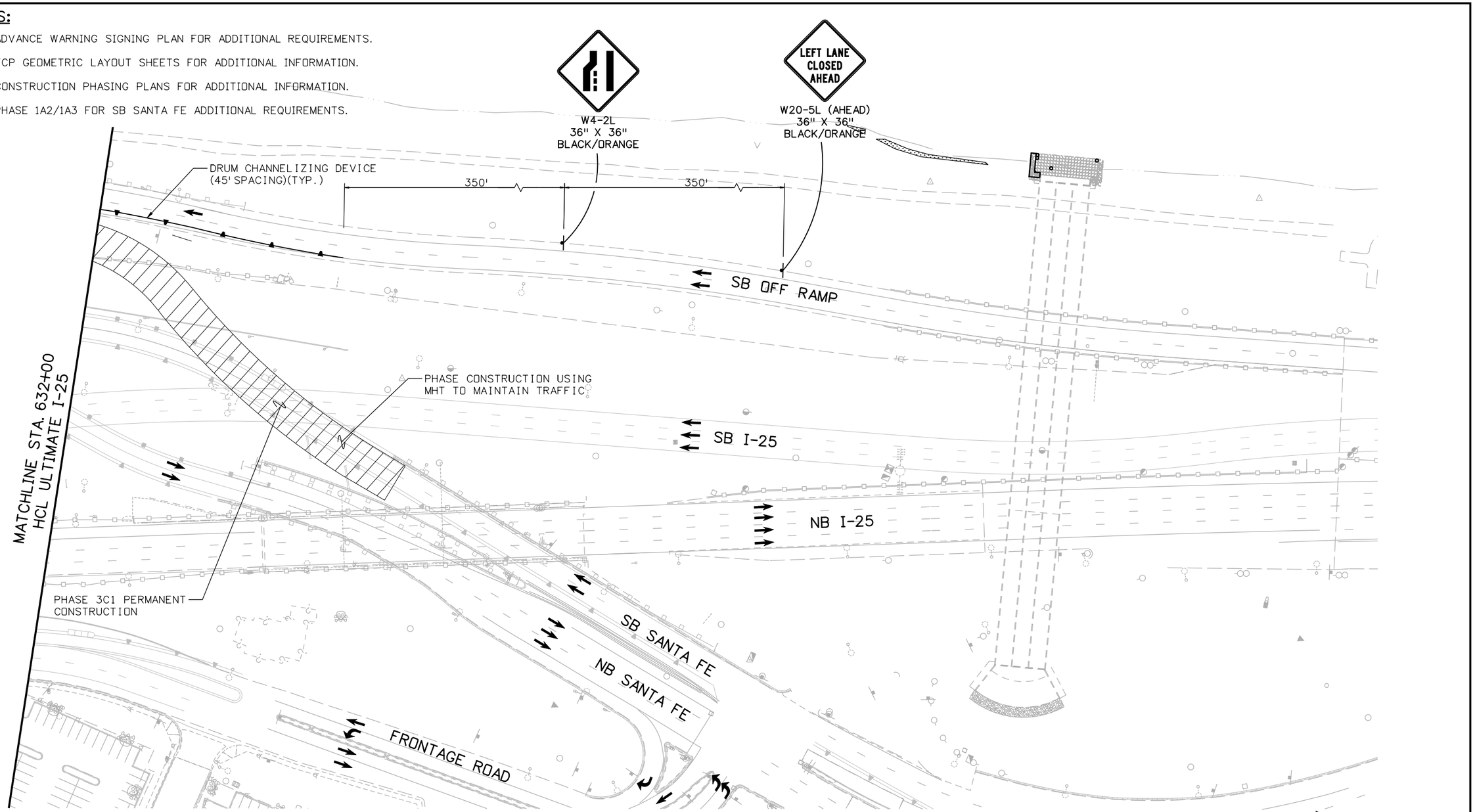
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE PHASE 1A2/1A3 FOR SB SANTA FE ADDITIONAL REQUIREMENTS.

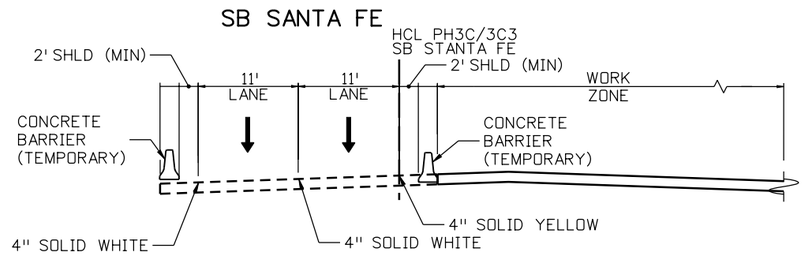


Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.1 SANTA FE TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3c1_plan02_Santa_Fe.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: 33 of 79	Sheet Number 628a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

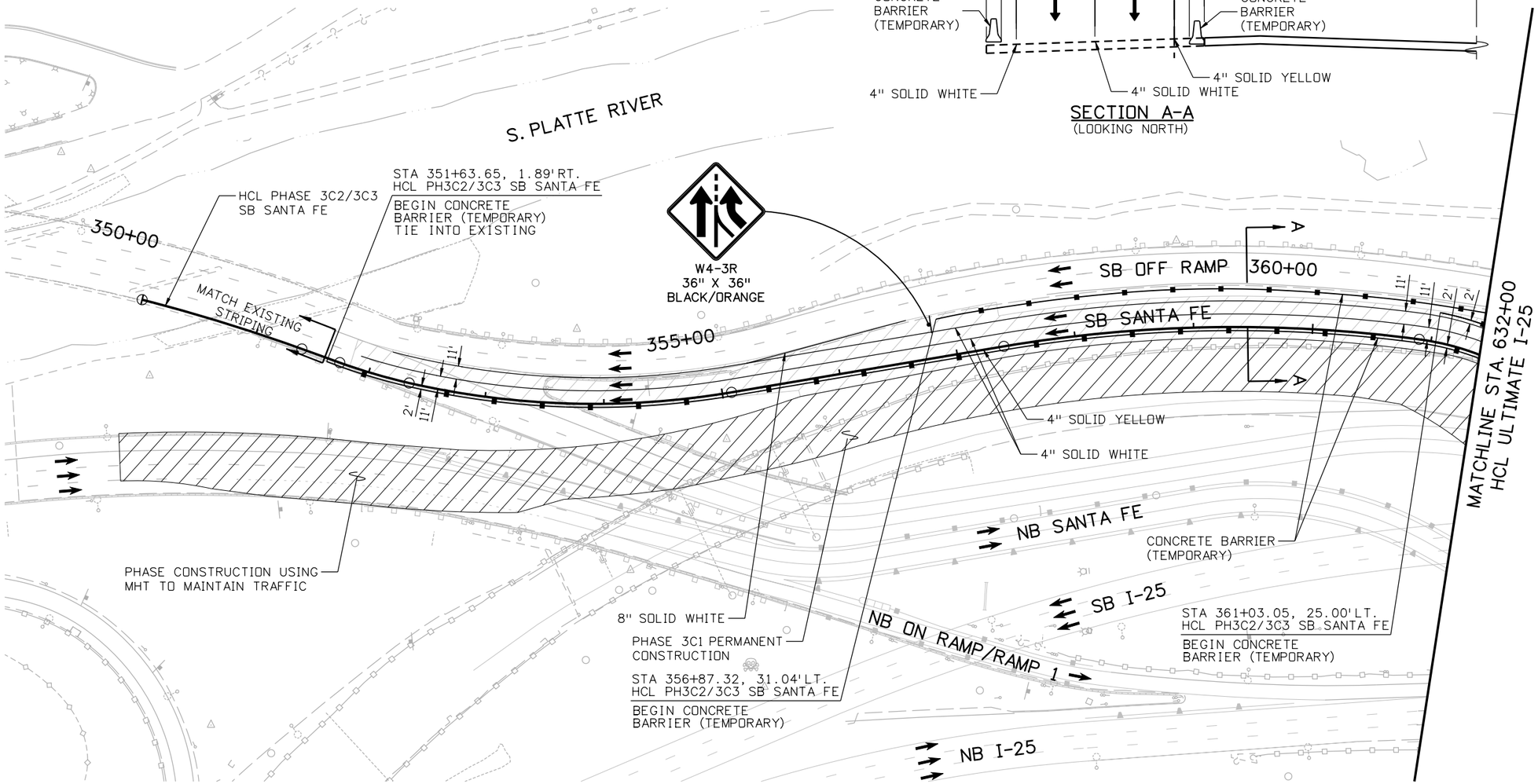
kroth 1:34:59 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH3c1_plan02_Santa_Fe.dgn
12/22/2010 CDOT-Phasing_PDF.plt
CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE PHASE 1A4 TCP FOR NB SANTA FE ADDITIONAL REQUIREMENTS.



SECTION A-A
(LOOKING NORTH)



Print Date: 12/22/2010	Sheet Revisions			
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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1 12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	R-2 1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 3.C.2/3.C.3
SANTA FE TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	34 of 79

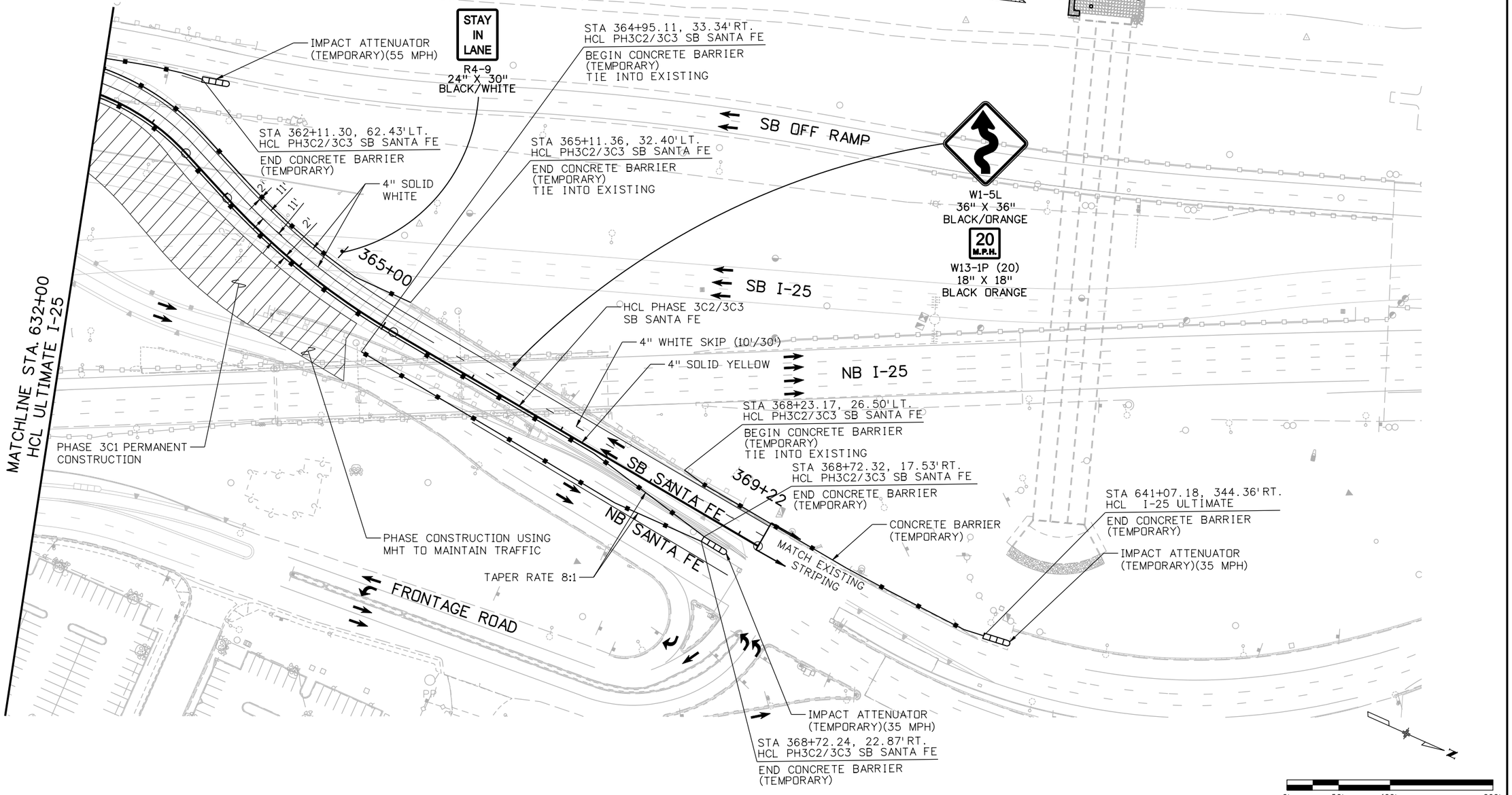
Project No./Code
BR 0252-407
17783
Sheet Number 629a B

kroth 1:35:07 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH3c2_3c3_plan01_Santa_Fe.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH3c2_3c3_plan01_Santa_Fe.dgn 12/22/2010 1:35:07 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITONAL INFORMATION.
4. SEE PHASE 1A4 TCP AND 1A2/1A3 TCP ADDITIONAL REQUIREMENTS.



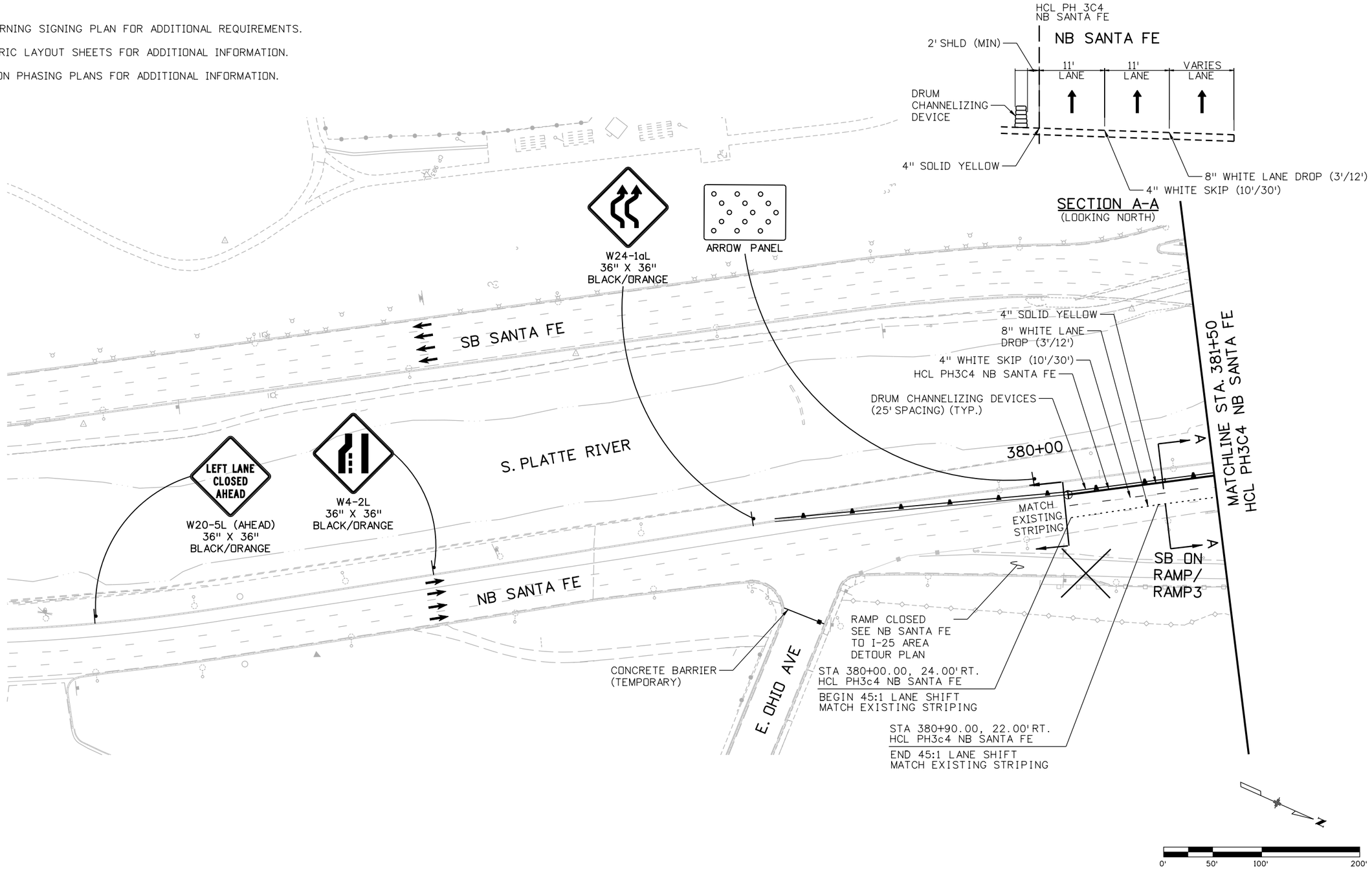
Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.2/3.C.3 SANTA FE TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3c2_3c3_plan02_Santa_Fe.dgn	Date:	Comments	Init.		No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1 12-3-10	ISSUED SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials	R-2 1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH / Structure Numbers	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111						Sheet Subset: TCP / Subset Sheets: 35 of 79	Sheet Number 630a B

kroth 1:35:13 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH3c2_3c3_plan02_Santa_Fe.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH3c2_3c3_plan02_Santa_Fe.dgn 12/22/2010 1:35:13 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.

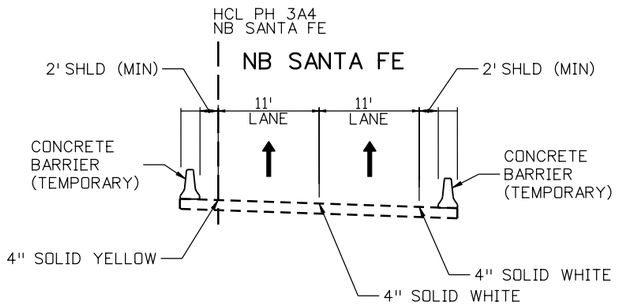


Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.4 SANTA FE TCP		Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH3c4_plan01_Santa_Fe.dgn		Date:	Comments	Init.		No Revisions:			BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: M. HARTWIG	Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH		Void:	Detailer: K. ROTH		
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB		Sheet Subset: TCP	Subset Sheets: 36 of 79	Sheet Number 631a B

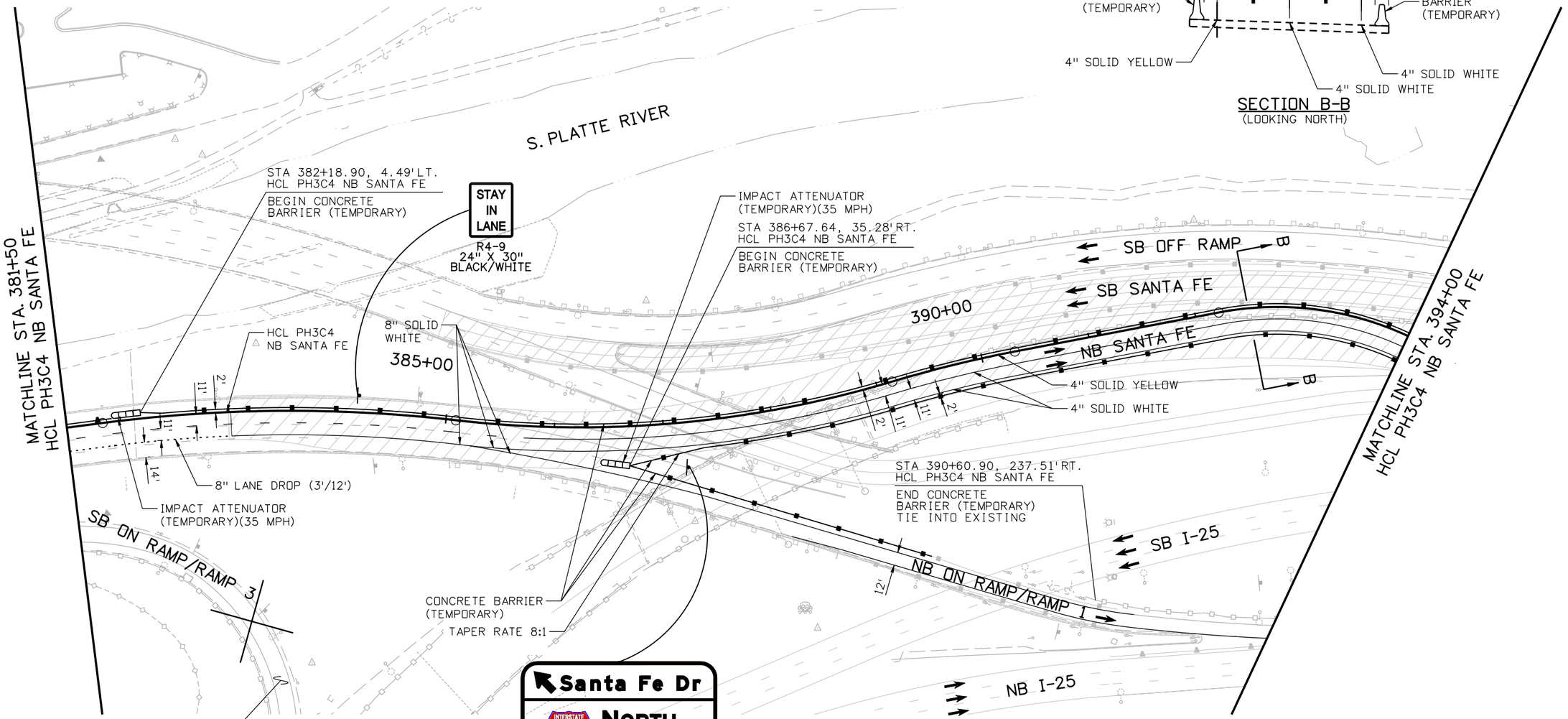
kroth 1:35:22 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH3c4_plan01_Santa_Fe.dgn
12/22/2010 CDOT-PhasingPDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE SB SANTA FE PH 3C2/3C3 TCP FOR SB SANTA FE TCP INFORMATION.



SECTION B-B
(LOOKING NORTH)



Print Date: 12/22/2010	Sheet Revisions			
File Name: 16311 HA TRAF_ PH2_TCP_PH3c4_plan02_Santa_Fe.dgn	Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

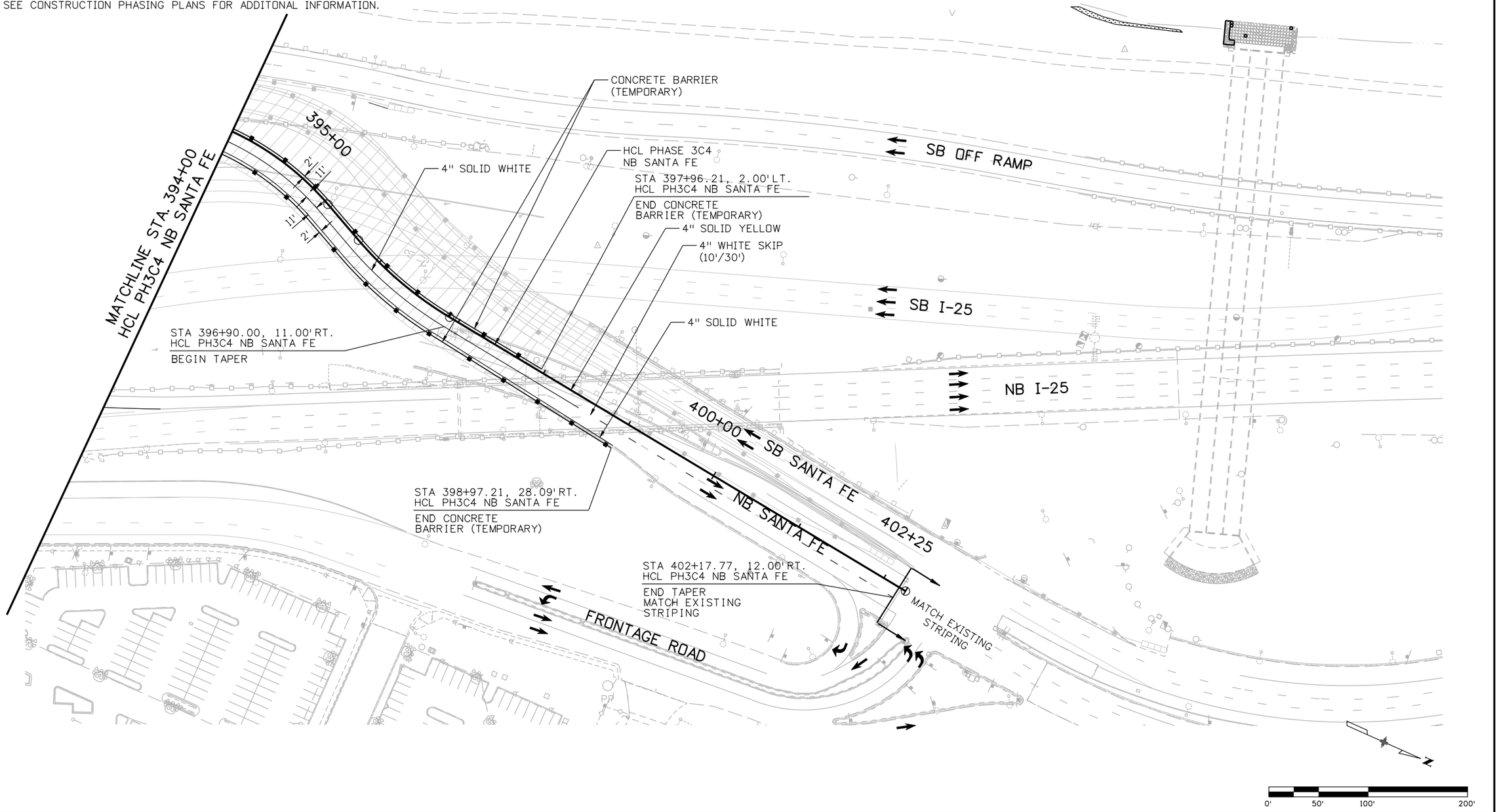
Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.4 SANTA FE TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			
	Sheet Subset: TCP	Subset Sheets: 37 of 79		Sheet Number 632a B

kroth 1:35:28 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH3c4_plan02_Santa_Fe.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl
16311 HA TRAF_ PH2_TCP_PH3c4_plan02_Santa_Fe.dgn 12/22/2010 1:35:28 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITONAL INFORMATION.



Print Date: 12/22/2010		Sheet Revisions		
File Name: 16311 HA TRAF_ PH2_TCP_PH3c4_plan03_Santa_Fe.dgn		Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 3.C.4 SANTA FE TCP		Project No./Code
No Revisions:			BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers	17783
Void:	Detailer: K. ROTH		Sheet Number 633a B
	Sheet Subset: TCP	Subset Sheets: 38 of 79	

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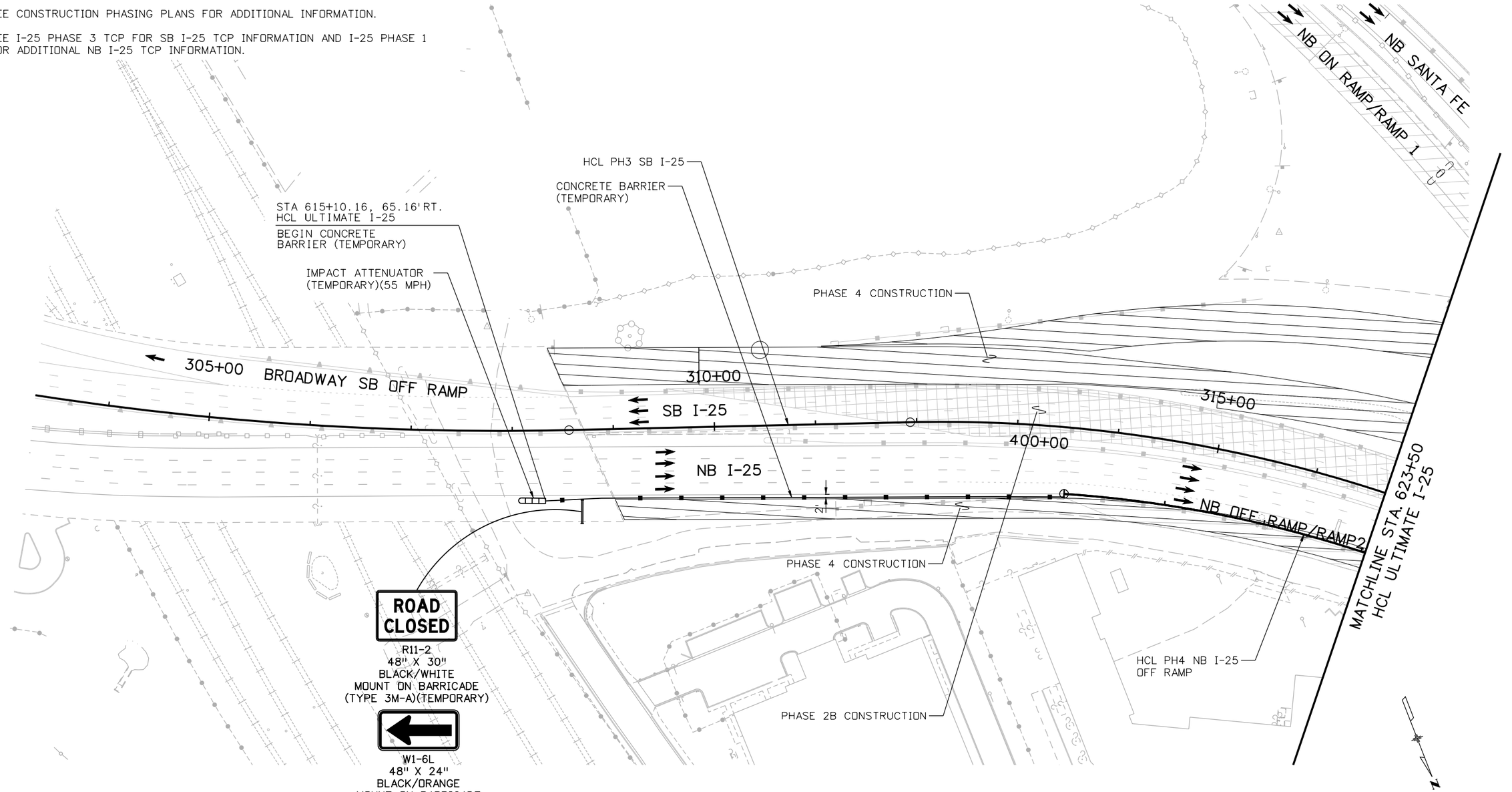
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 3 TCP FOR SB I-25 TCP INFORMATION AND I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010	Sheet Revisions			
File Name: 16311 HA TRAF_ PH2_TCP_PH4_plan01_I-25.dgn	Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 4
I-25 TCP

Designer: M. HARTWIG	Structure Numbers		
Detailer: K. ROTH			
Sheet Subset: TCP	Subset Sheets: 39 of 79		

Project No./Code
BR 0252-407
17783
Sheet Number 634a B

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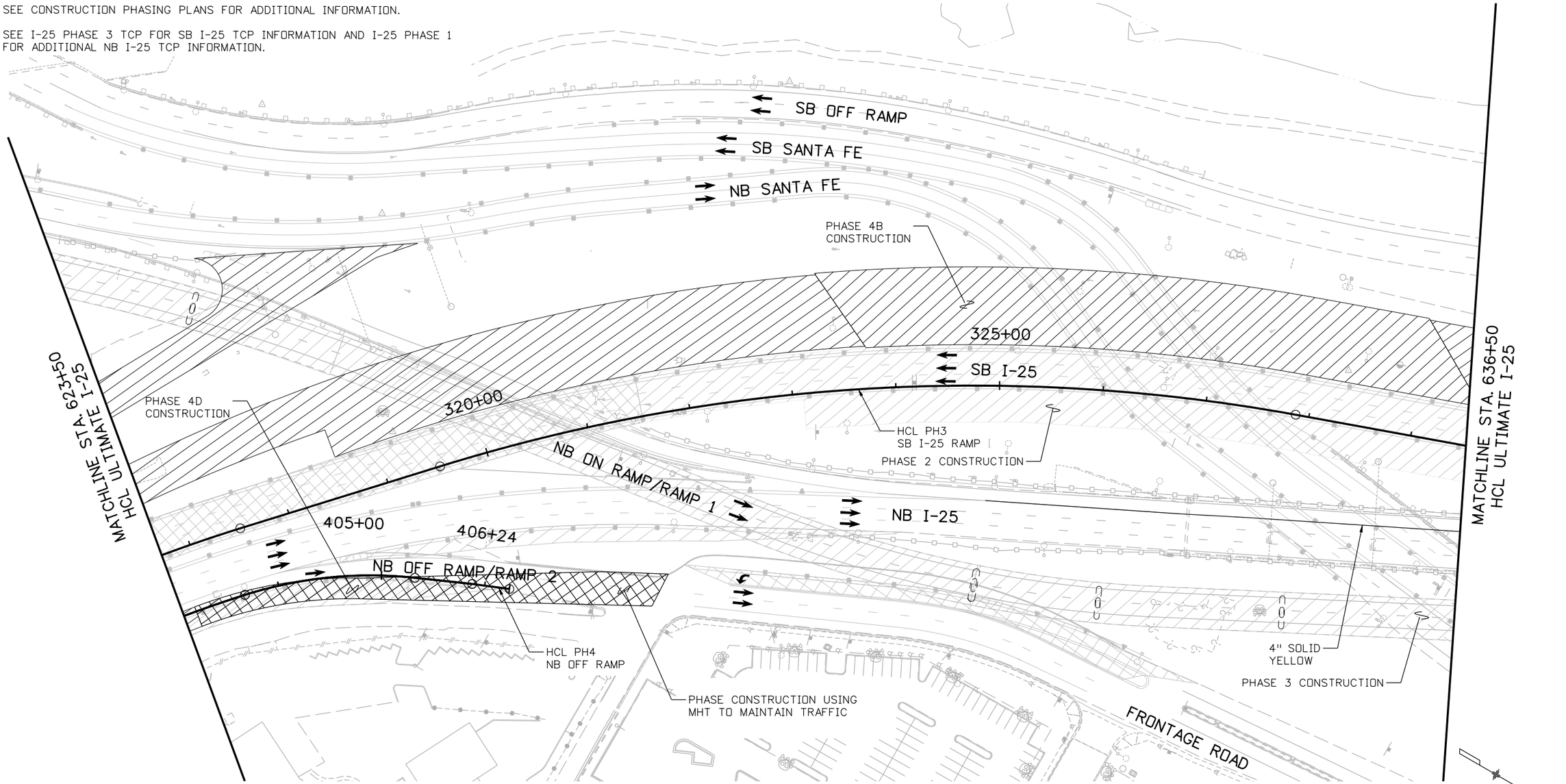
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 3 TCP FOR SB I-25 TCP INFORMATION AND I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



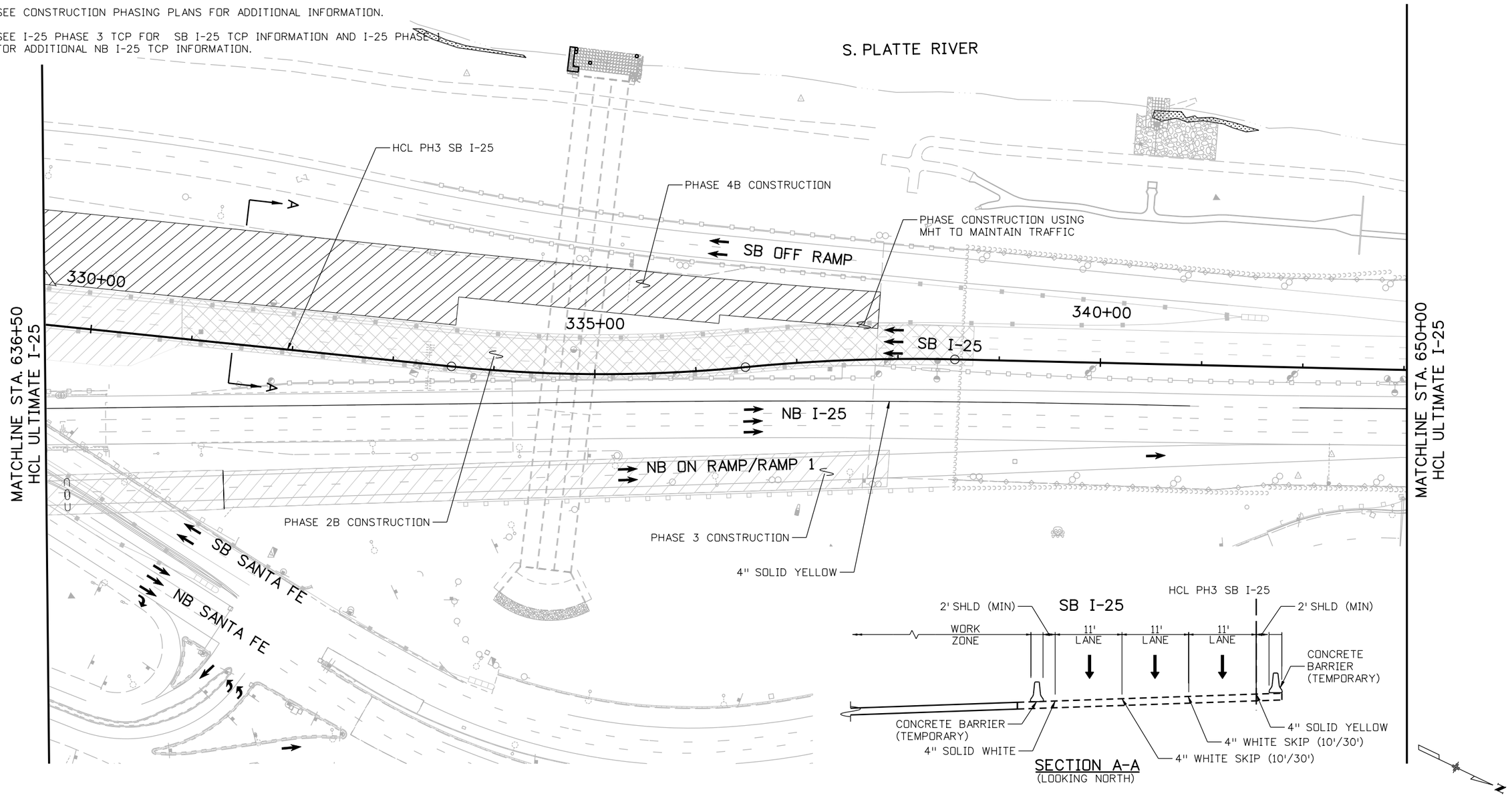
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 4 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH4_plan02_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH Structure Numbers	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP Subset Sheets: 40 of 79	Sheet Number 635a B

kroth 1:36:36 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH4_plan02_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH4_plan02_I-25.dgn 12/22/2010 1:36:36 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 3 TCP FOR SB I-25 TCP INFORMATION AND I-25 PHASE 4 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 4 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH4_plan03_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB	Revised:	Designer: M. HARTWIG / Structure Numbers:	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH		Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: 41 of 79	Sheet Number 636a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 1:36:44 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH4_plan03_I-25.dgn
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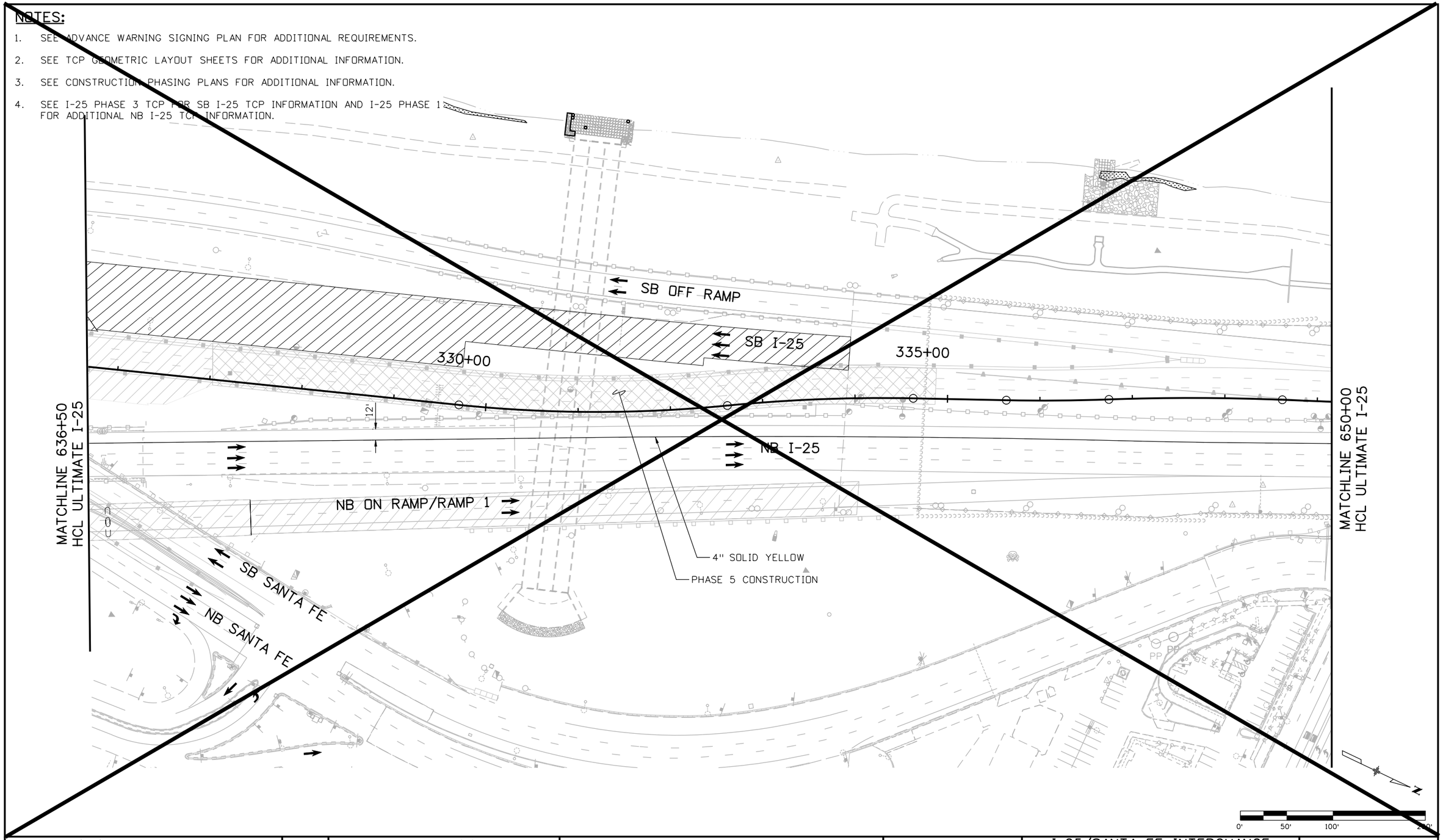
16311 HA TRAF_ PH2_TCP_PH4_plan03_I-25.dgn 12/22/2010 1:36:44 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 3 TCP FOR SB I-25 TCP INFORMATION AND I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



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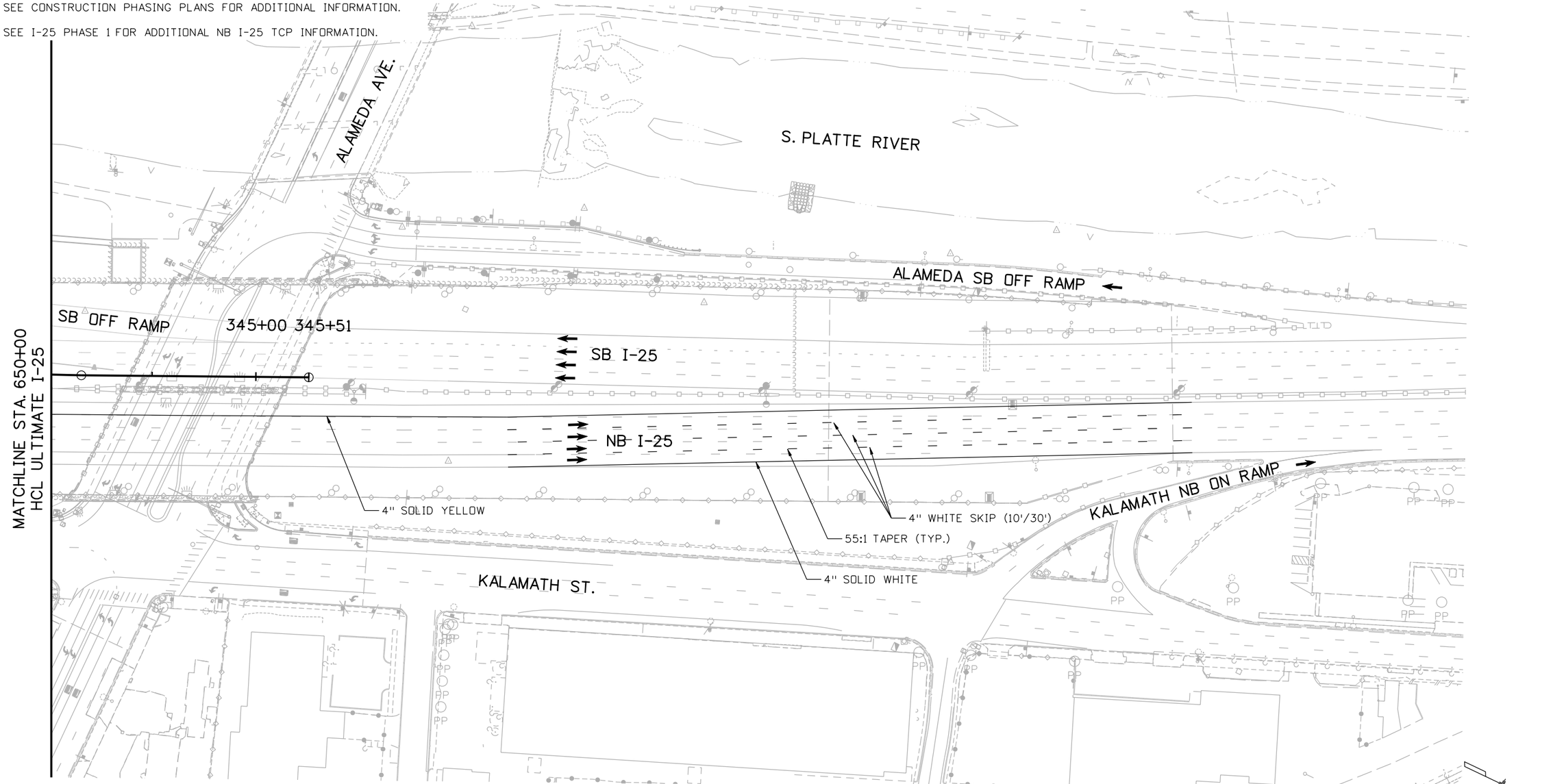
File Name: 16311 HA TRAF_ PH2_TCP_PH4_plan04_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Detailer: K. ROTH / Sheet Subset: TCP / Structure Numbers / Subset Sheets: XX of XX	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:		Sheet Number 637a A
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 11:10:41 AM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH4_plan04_I-25.dgn
11/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010		Sheet Revisions		
File Name: 16311 HA TRAF_ PH2_TCP_PH4_plan04_I-25.dgn		Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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DEPARTMENT OF TRANSPORTATION
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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 4
I-25 TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 42 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 638a B

kroth 1:36:52 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH4_plan04_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt
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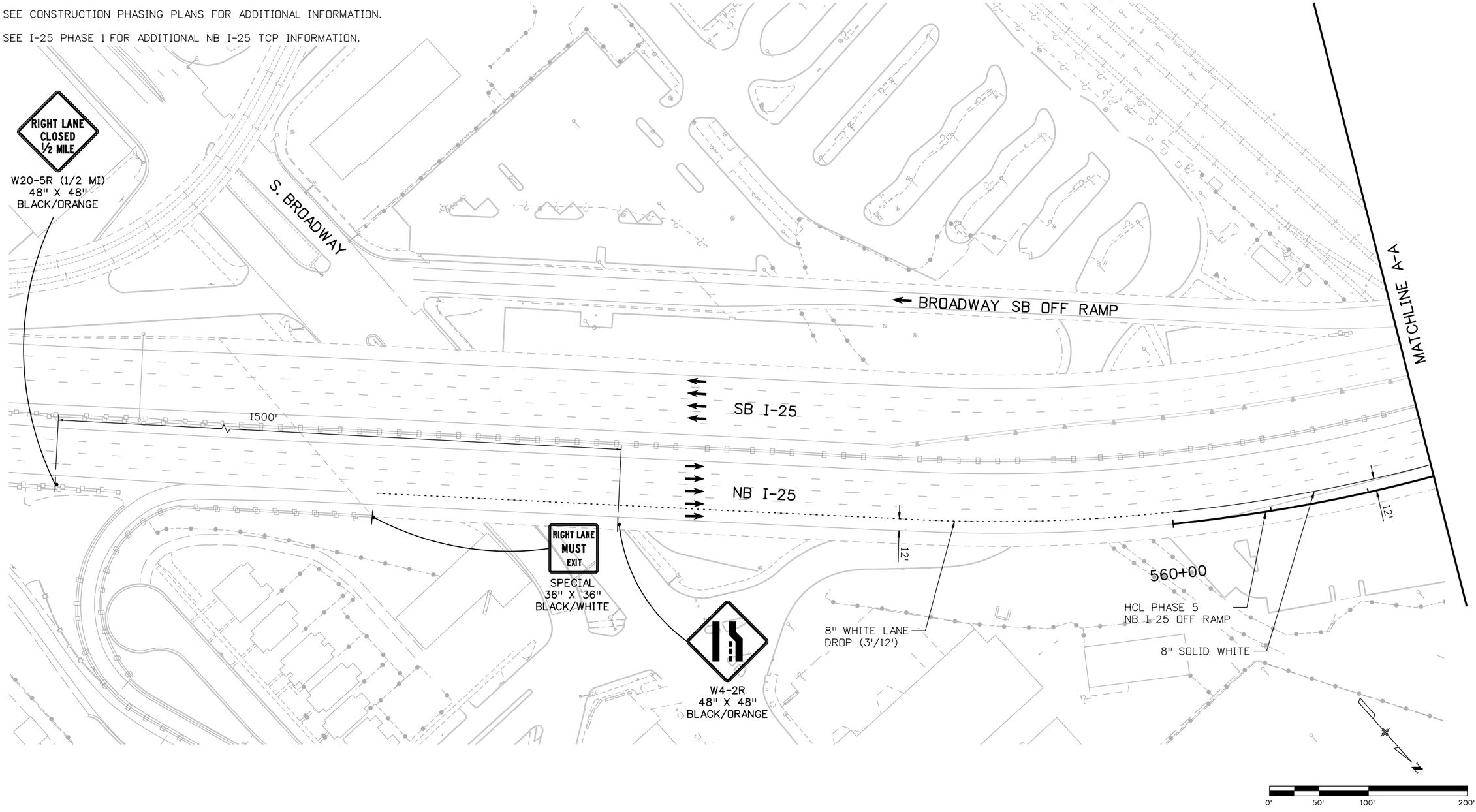
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 5 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH5_plan01_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP Subset Sheets: 43 of 79	Sheet Number 639a B

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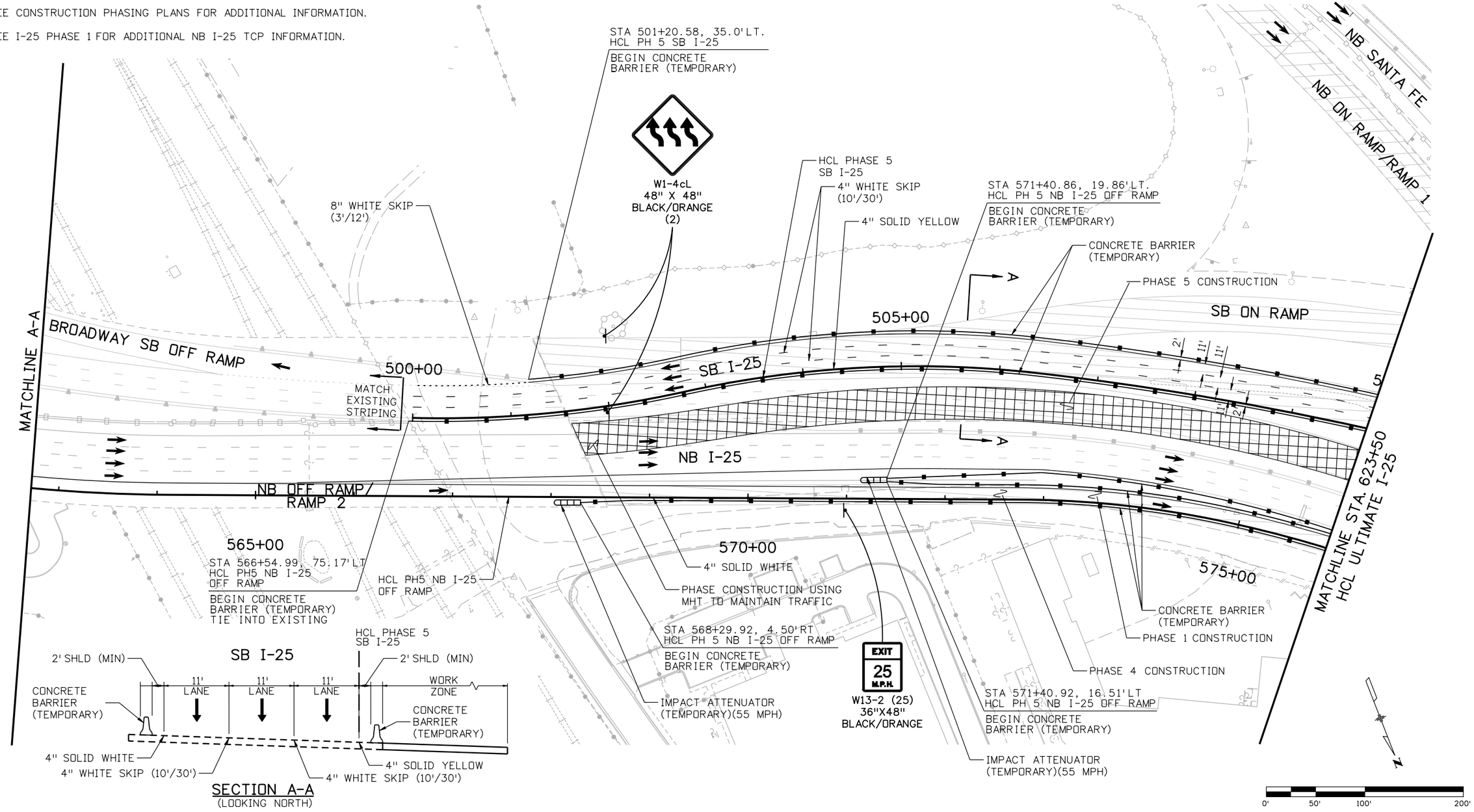
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH5_plan01_I-25.dgn 12/22/2010 1:37:01 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010	Sheet Revisions			
File Name: 16311 HA TRAF_ PH2_TCP_PH5_plan02_I-25.dgn	Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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DOT — DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 5
I-25 TCP

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 44 of 79

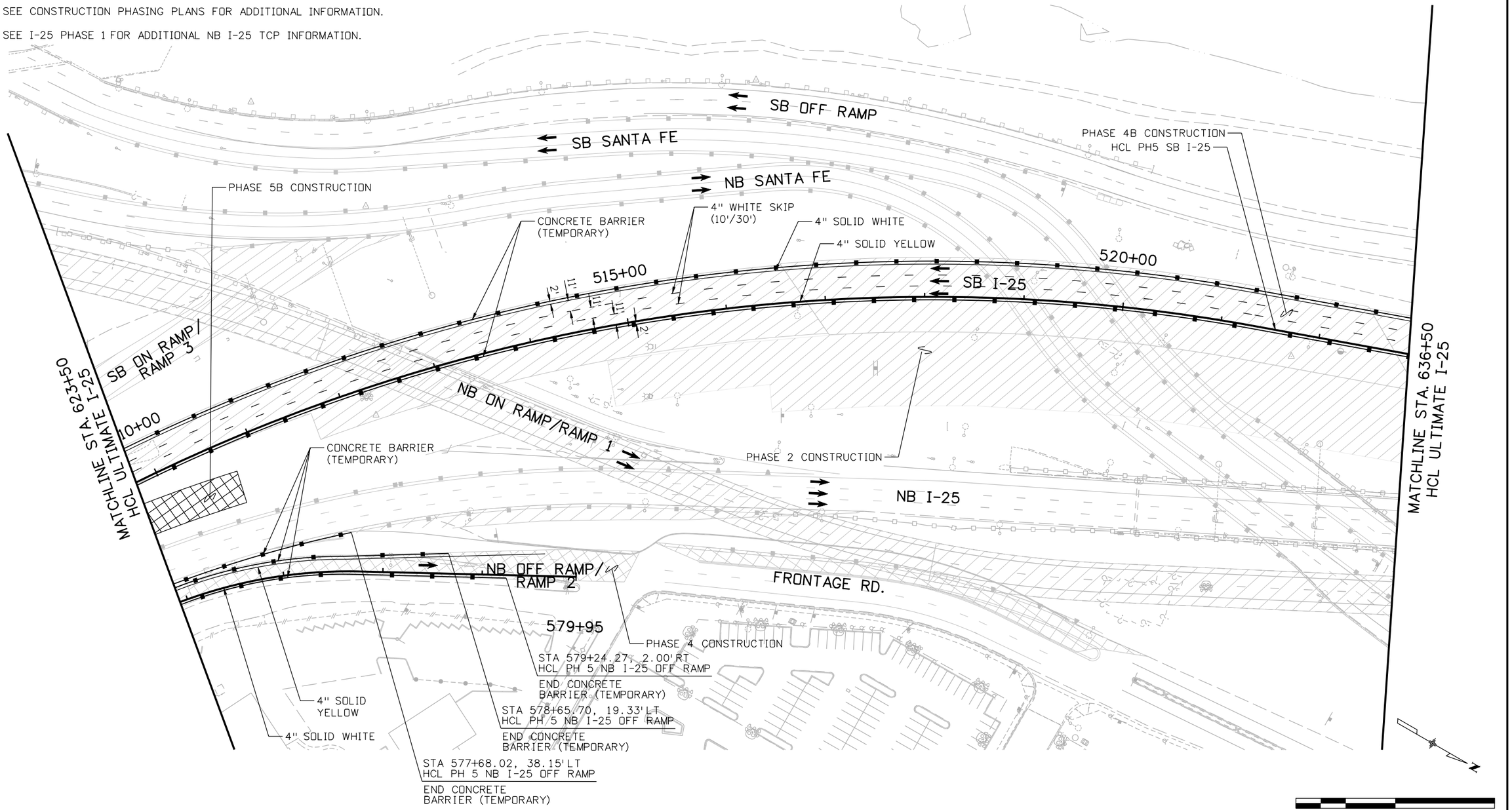
Project No./Code
BR 0252-407
17783
Sheet Number 640a B

kroth 1:37:09 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH5_plan02_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

16311 HA TRAF_ PH2_TCP_PH5_plan02_I-25.dgn 12/22/2010 1:37:09 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



Print Date: 12/22/2010			
File Name: 16311 HA TRAF_ PH2_TCP_PH5_plan03_I-25.dgn			
Horiz. Scale: 1:100 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111			

Sheet Revisions		
Date:	Comments	Init.
12-3-10	ISSUED SHEET	MLH
1-3-11	RE-ISSUED SHEET	MLH

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DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 5
I-25 TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	45 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 641a B

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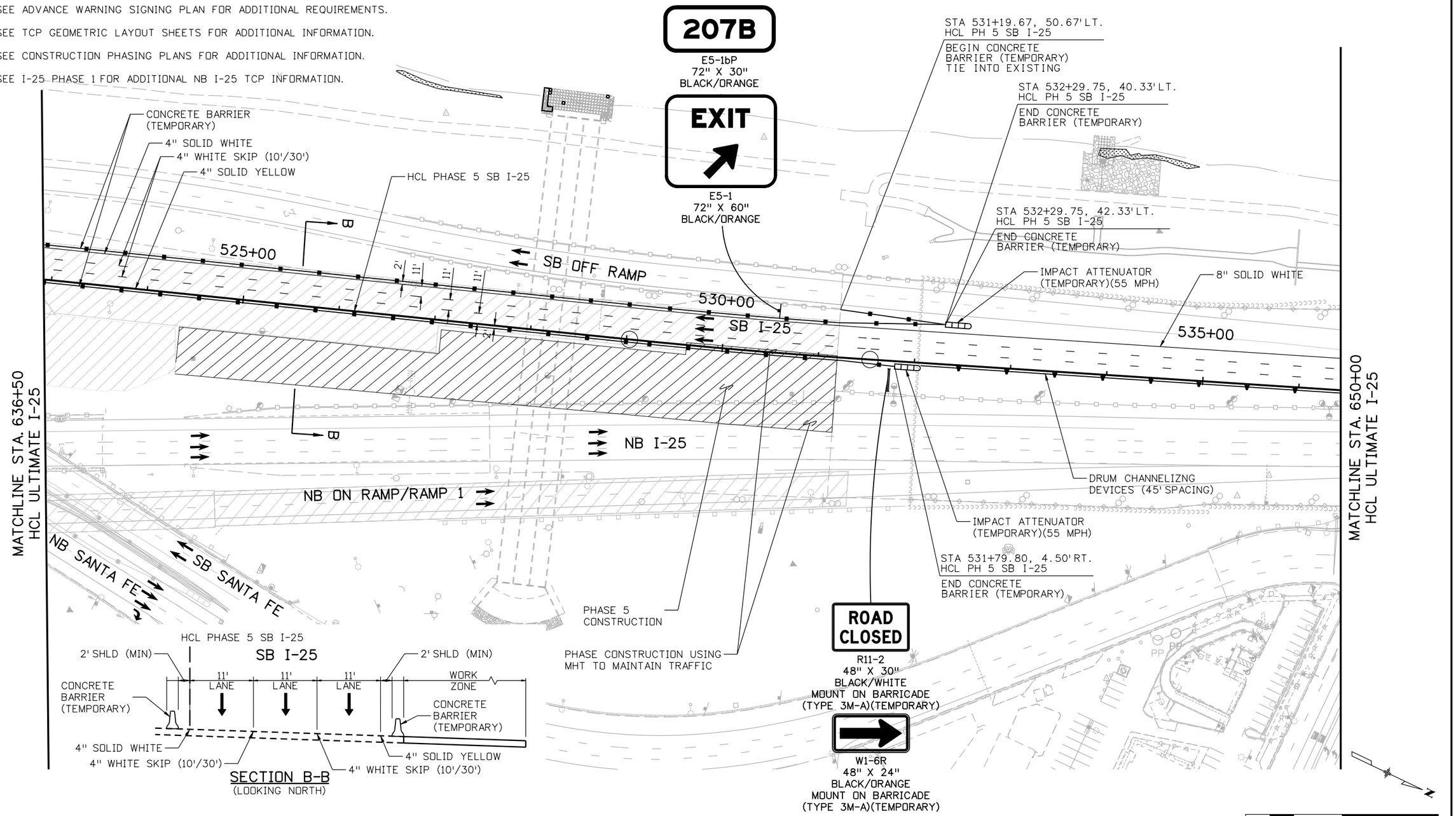
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



SECTION B-B
(LOOKING NORTH)

Print Date: 12/22/2010		Sheet Revisions		
File Name: 16311 HA TRAF_ PH2_TCP_PH5_plan04_I-25.dgn		Date:	Comments	Init.
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 5
I-25 TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	46 of 79

Project No./Code	
BR 0252-407	
17783	
Sheet Number	642a B

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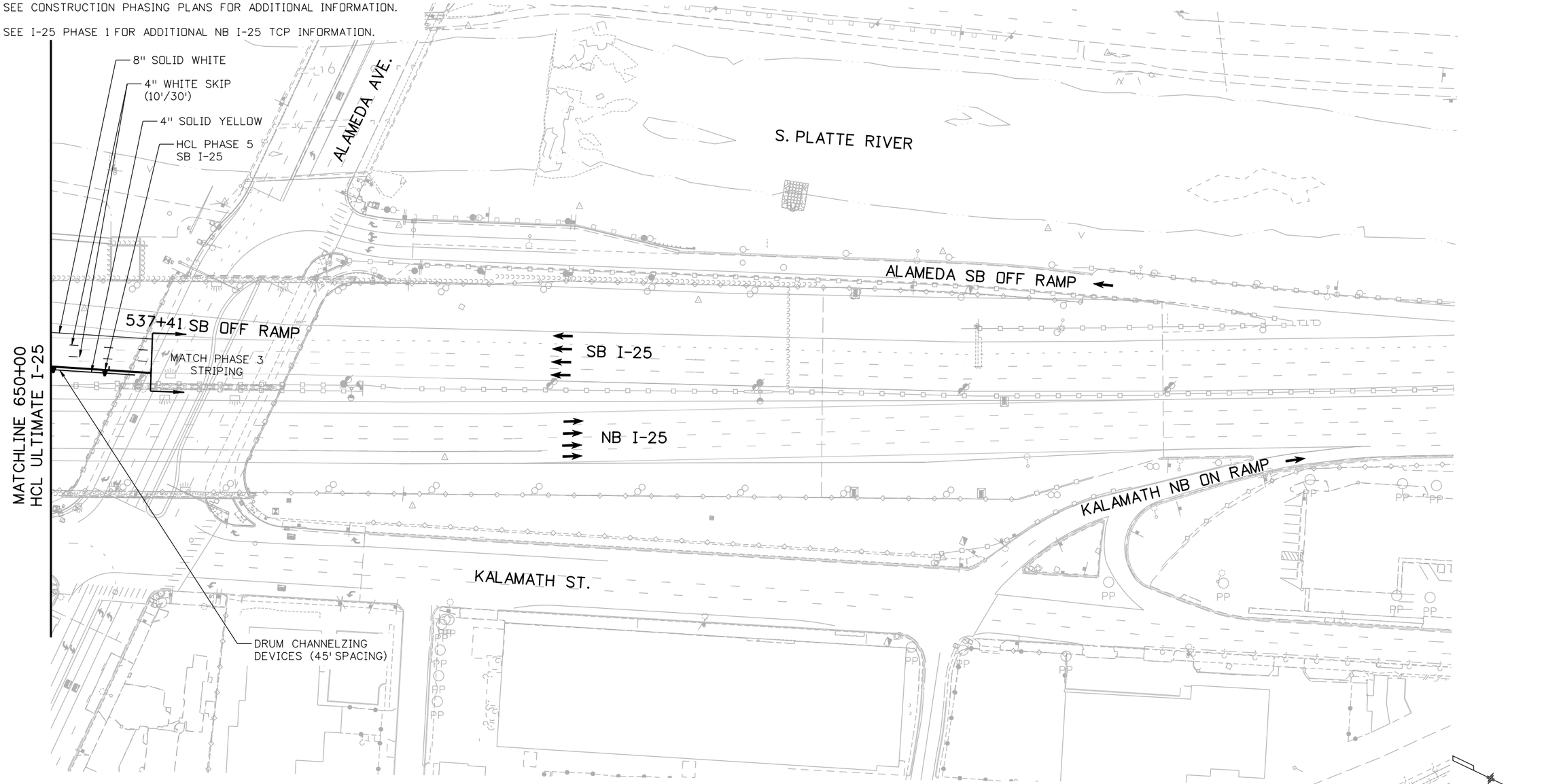
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 1 FOR ADDITIONAL NB I-25 TCP INFORMATION.



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Unit Information Unit Leader Initials		1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
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Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 5
I-25 TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	47 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 643a B

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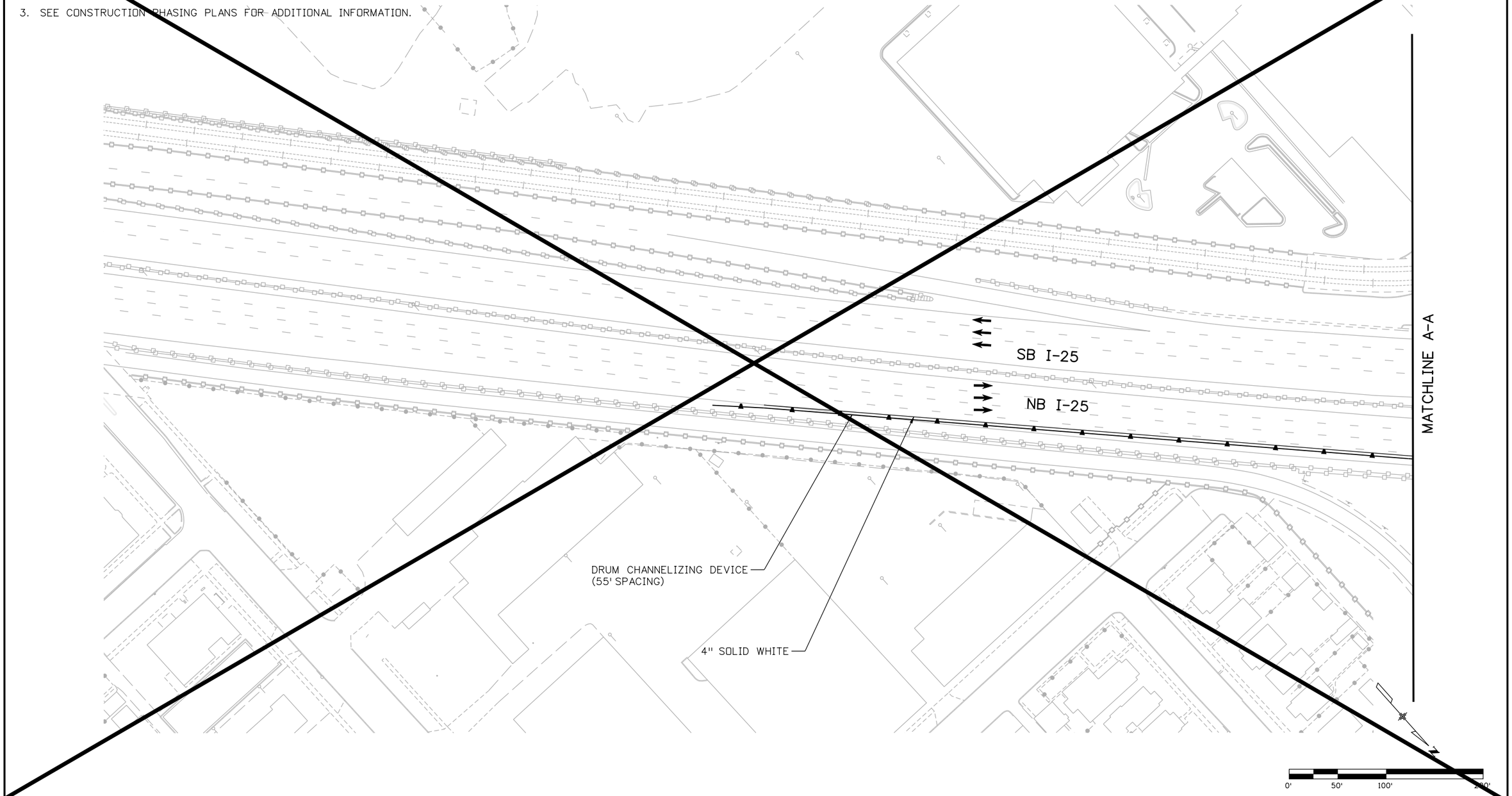
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl
16311 HA TRAF_ PH2_TCP_PH5_plan05_I-25.dgn 12/22/2010 1:37:33 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100.084 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			

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Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.
12-3-10	ISSUED SHEET	MLH

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DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 6
I-25 TCP

Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	XX of XX

Project No./Code
BR 0252-407
17783
Sheet Number 644a A

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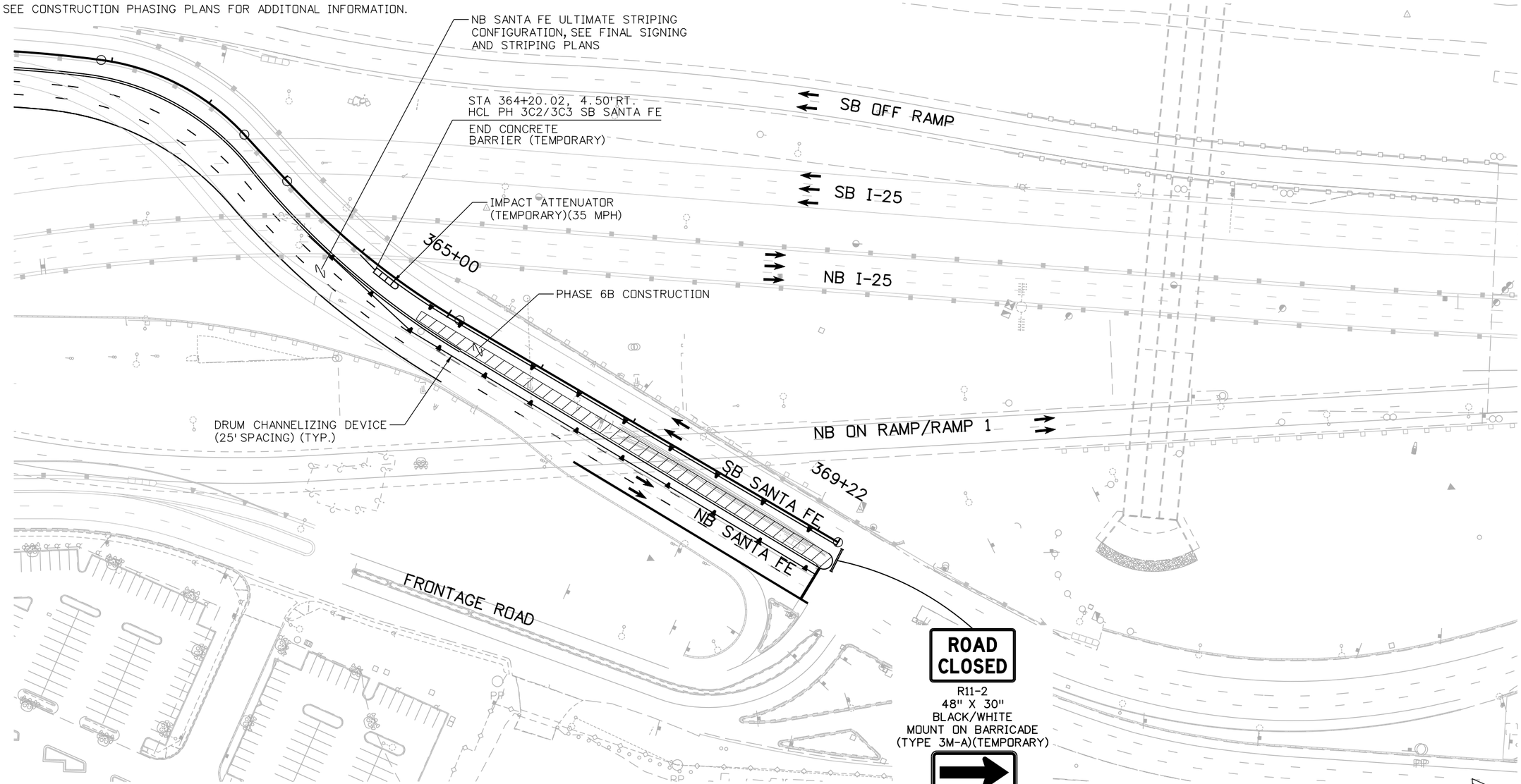
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITONAL INFORMATION.



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Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

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DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 6 SANTA FE TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			
	Sheet Subset: TCP	Subset Sheets: 48 of 79		Sheet Number 645a B

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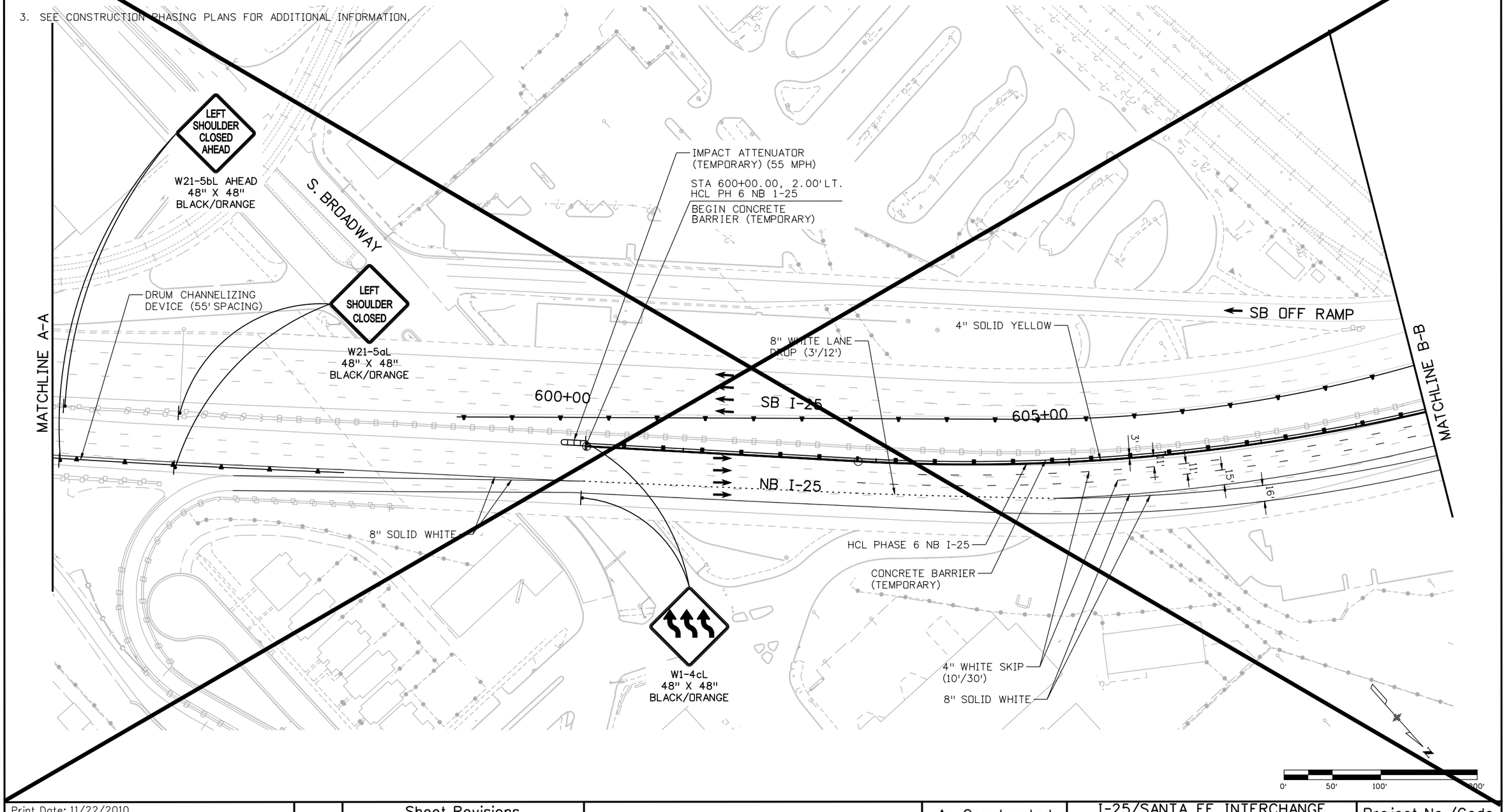
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100.084 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB	Revised:	Detailer: K. ROTH Structure Numbers	17783
Unit Information Unit Leader Initials						Void:	Sheet Subset: TCP Subset Sheets: XX of XX	Sheet Number 646a A
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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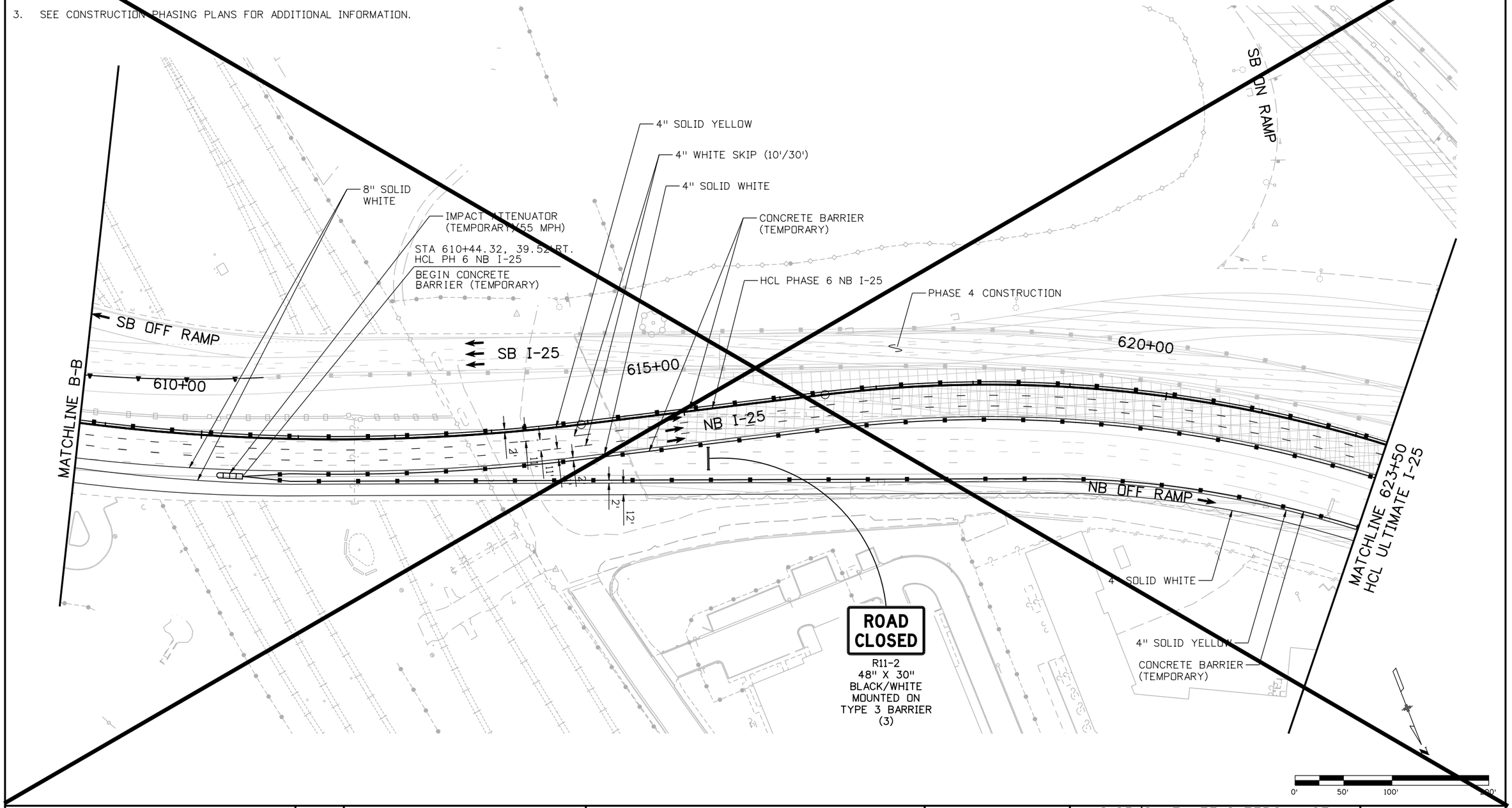
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted		12-3-10	ISSUED SHEET	MLH	Region 6 RLB	Revised:	Detailer: K. ROTH Structure Numbers	17783
Unit Information Unit Leader Initials						Void:	Sheet Subset: TCP Subset Sheets: XX of XX	Sheet Number 647a A
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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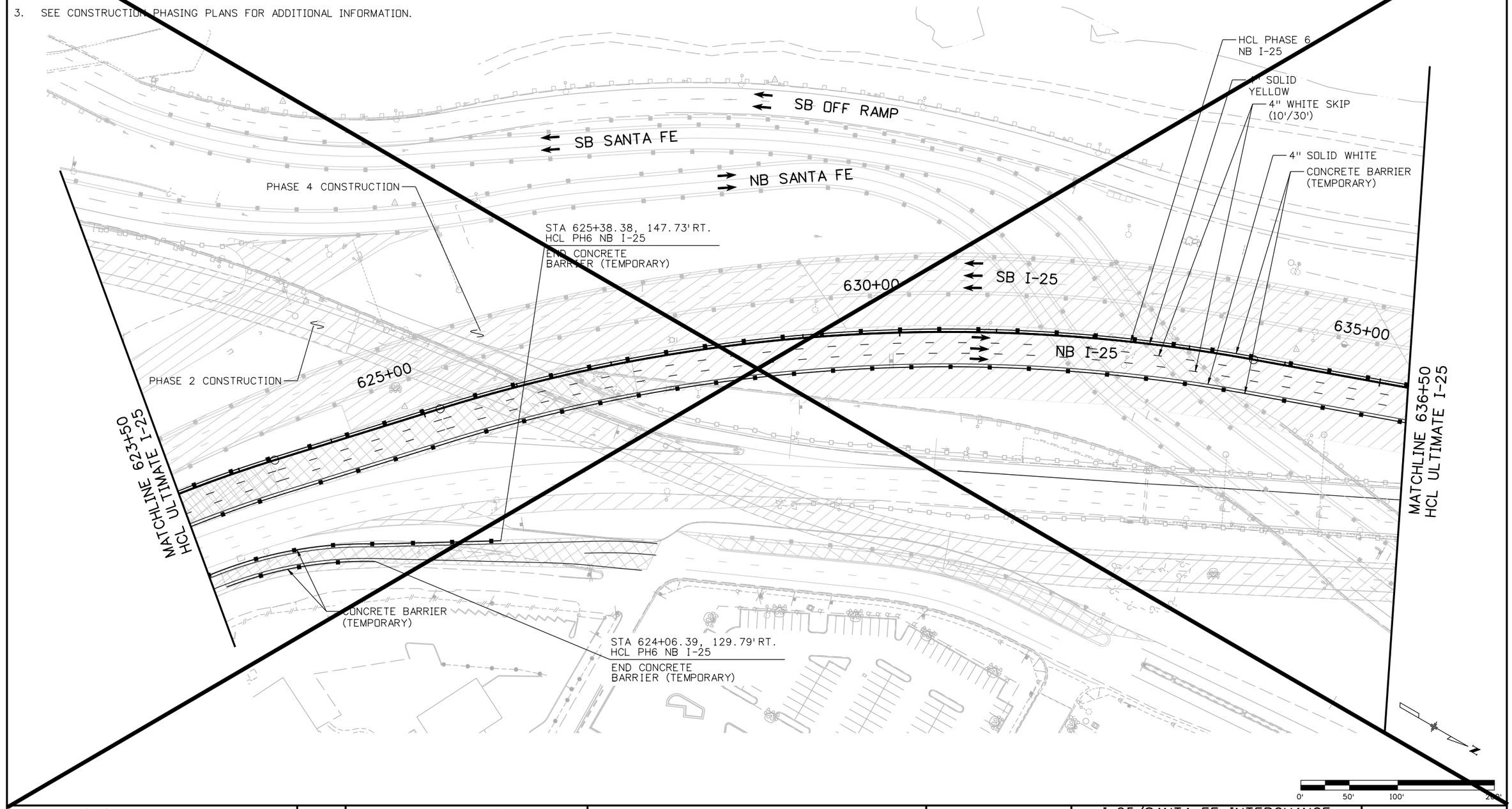
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Detailer: K. ROTH / Sheet Subset: TCP	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Structure Numbers / Subset Sheets: XX of XX	Sheet Number 648a A
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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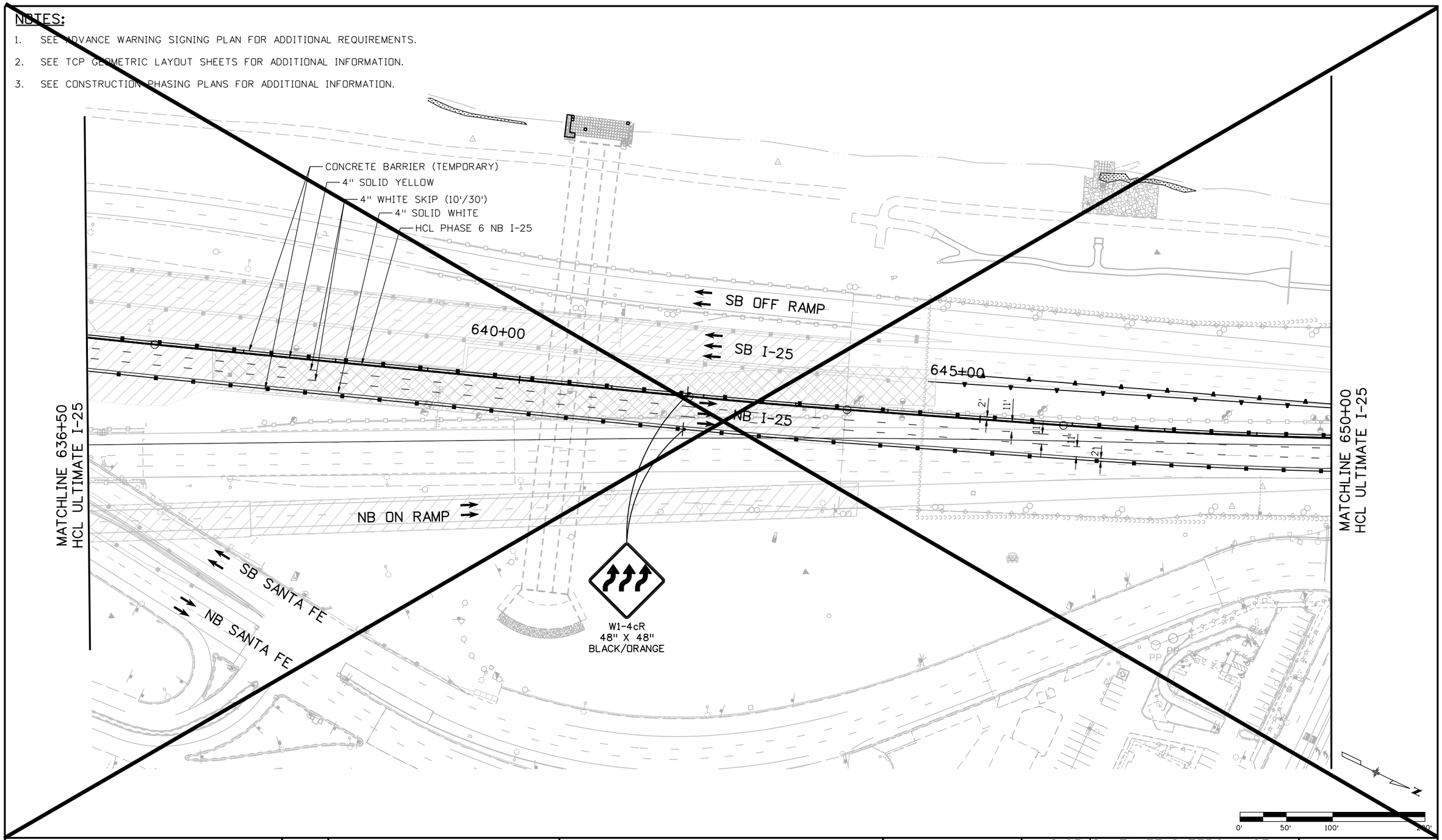
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 11:11:56 AM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH6_plan05_I-25.dgn
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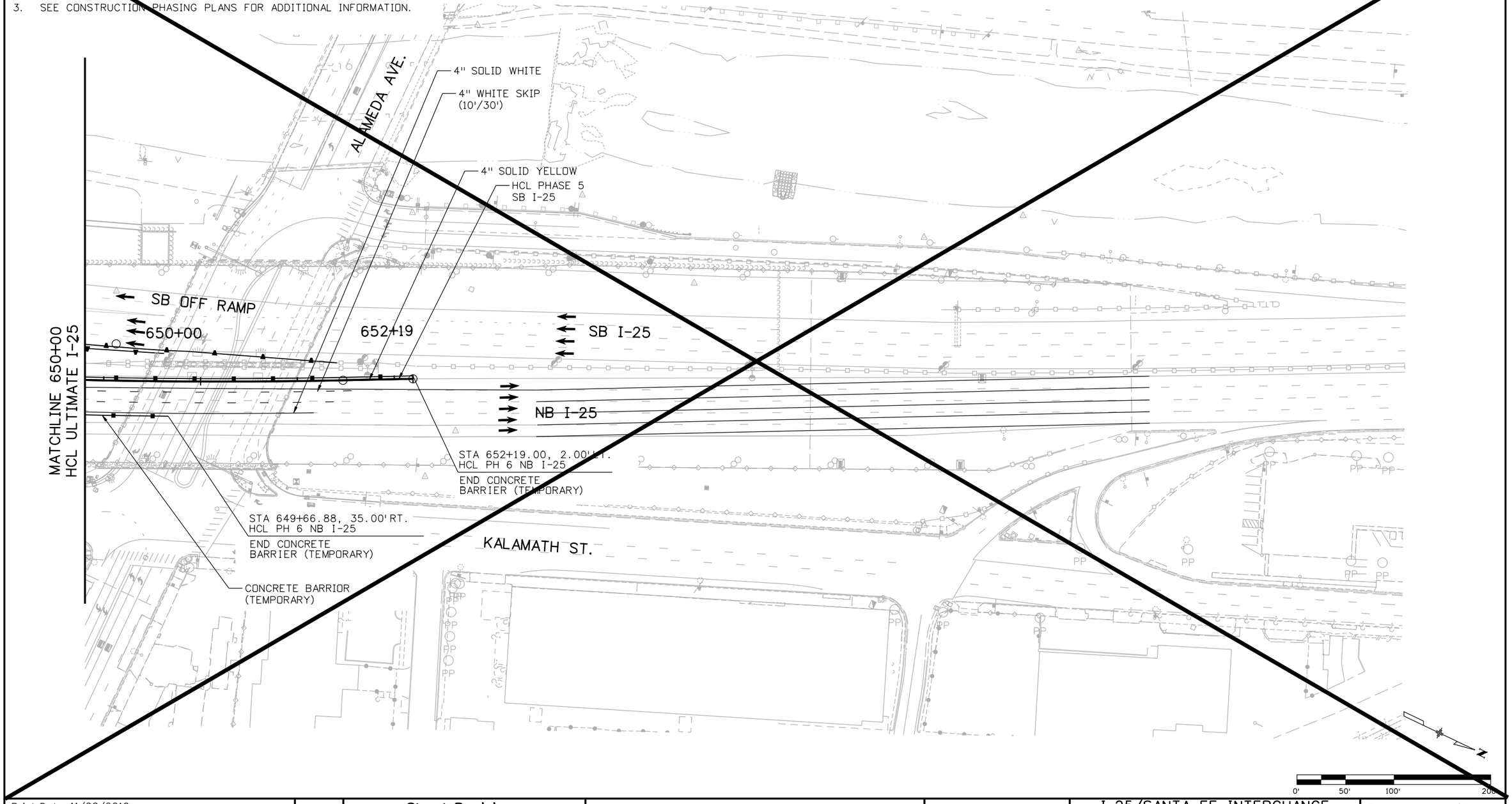
16311 HA TRAF_ PH2_TCP_PH6_plan05_I-25.dgn 11/22/2010 11:11:56 AM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials					Region 6 RLB	Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: XX of XX	Sheet Number 650a A
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 11:12:03 AM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH6_plan06_I-25.dgn
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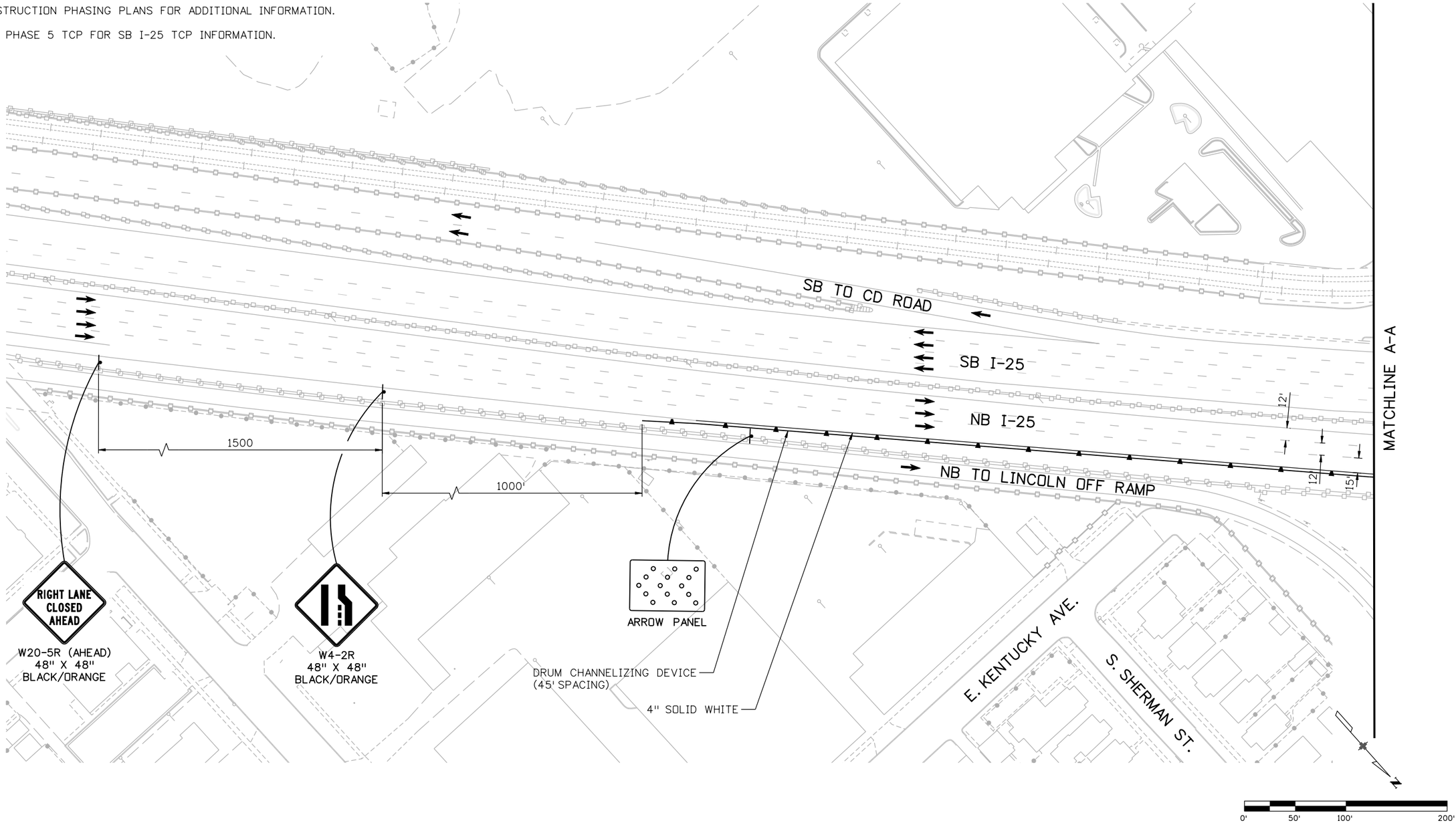
CDOT-PenTablePhasing.tbl

16311 HA TRAF_PH2_TCP_PH6_plan06_I-25.dgn 11/22/2010 11:12:03 AM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH7_plan01_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH	Sheet Number 651a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP Structure Numbers Subset Sheets: 49 of 79	

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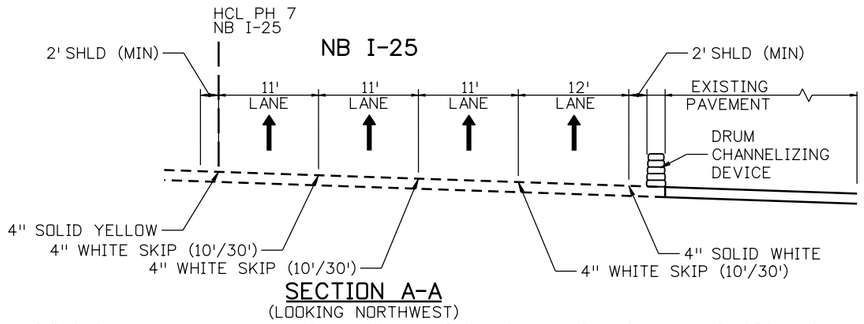
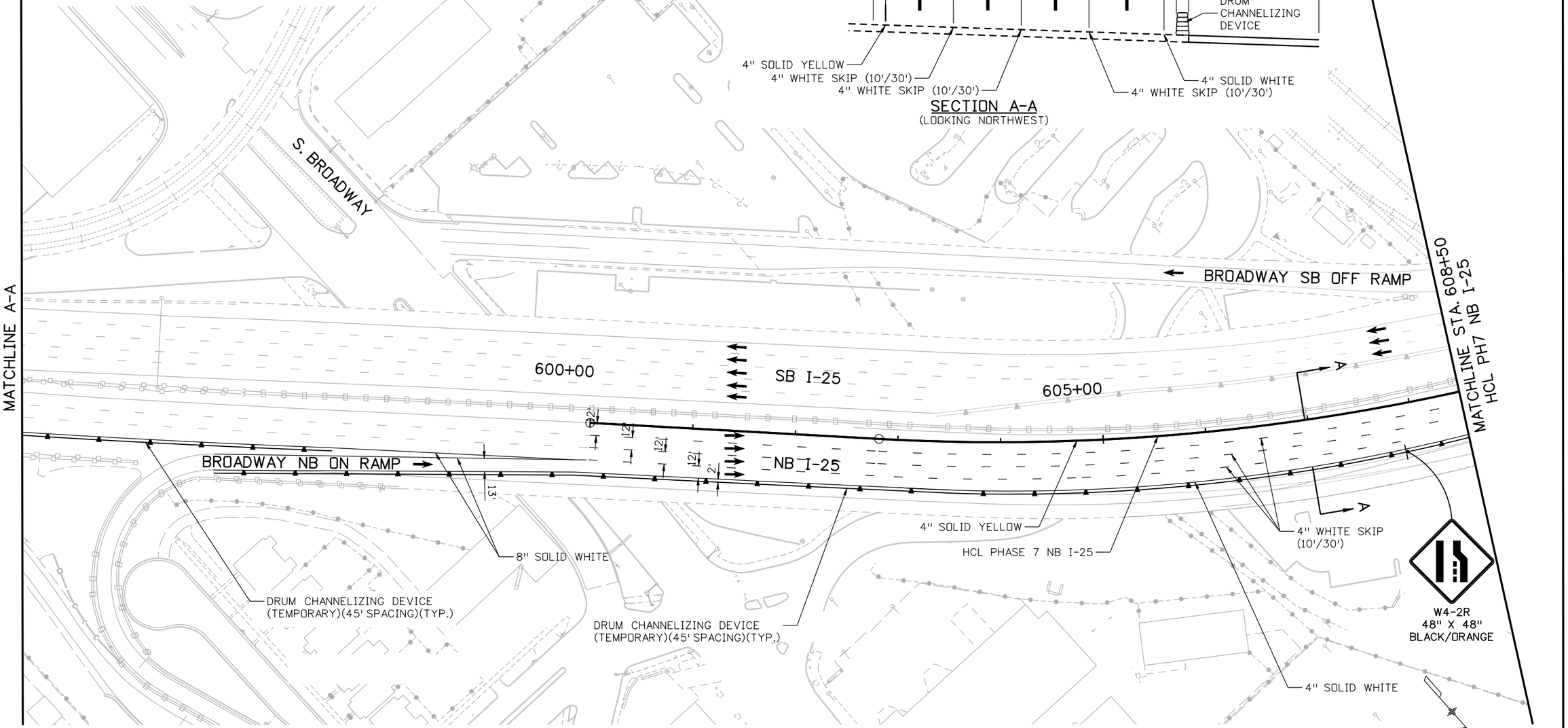
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



SECTION A-A
(LOOKING NORTHWEST)



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311 HA TRAF_ PH2_TCP_PH7_plan02_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street
Horiz. Scale: 1:100.084 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Denver, CO 80222
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Phone: 303-972-9112 FAX: 303-972-9114
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			Sheet Number 652a B
	Sheet Subset: TCP	Subset Sheets: 50 of 79		

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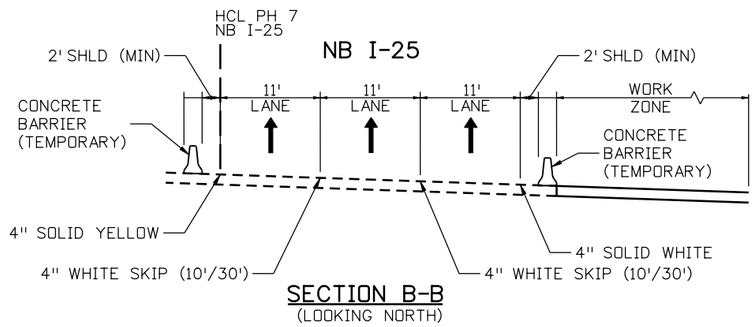
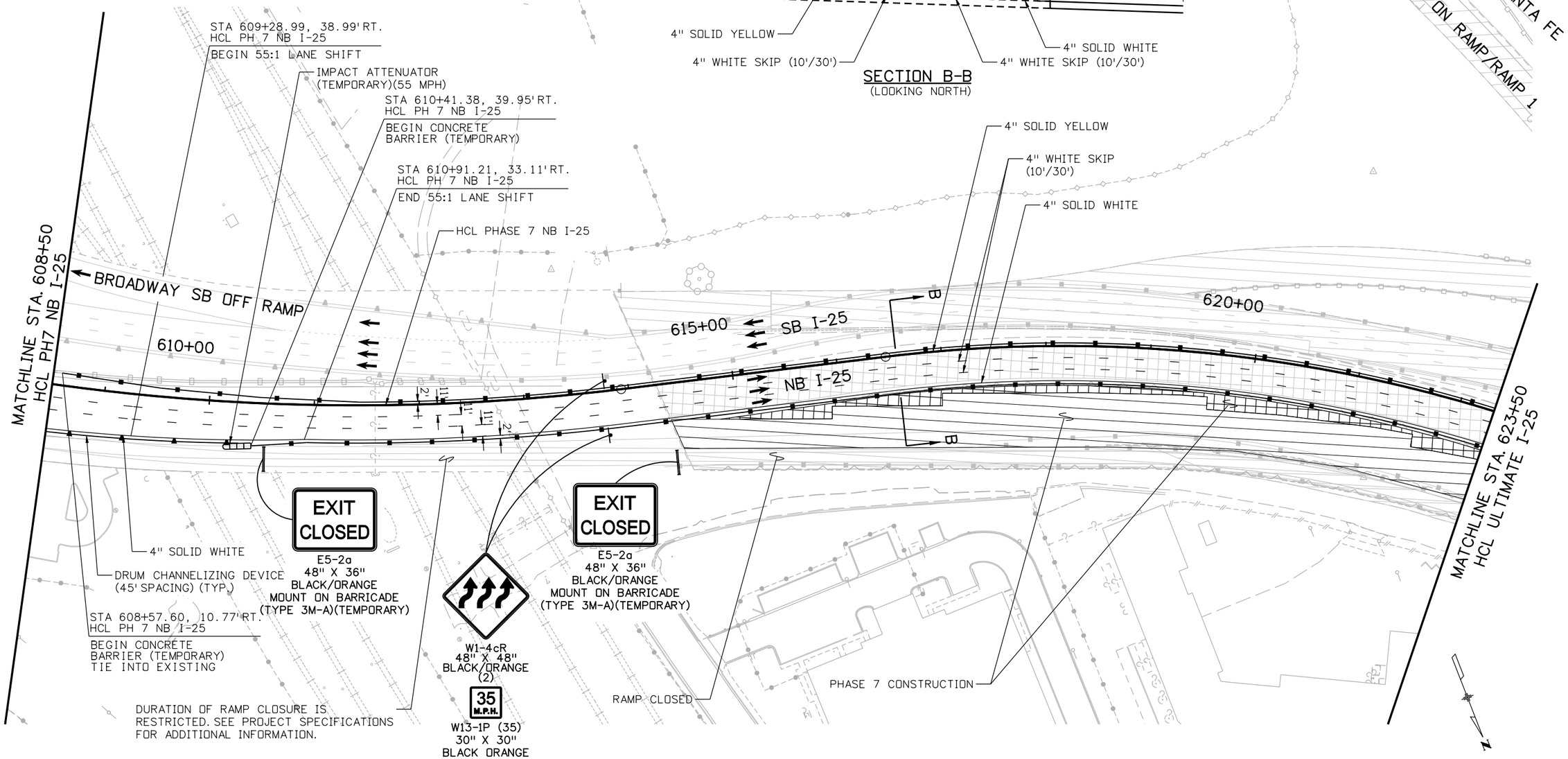
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.
5. SEE AREA DETOUR PLAN FOR RAMP CLOSURE OF NB I-25 OFF RAMP.



SECTION B-B
(LOOKING NORTH)



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Horiz. Scale: 1:100 Vert. Scale: As Noted	R-2	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials		1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			
	Sheet Subset: TCP	Subset Sheets: 51 of 79		Sheet Number 653a B

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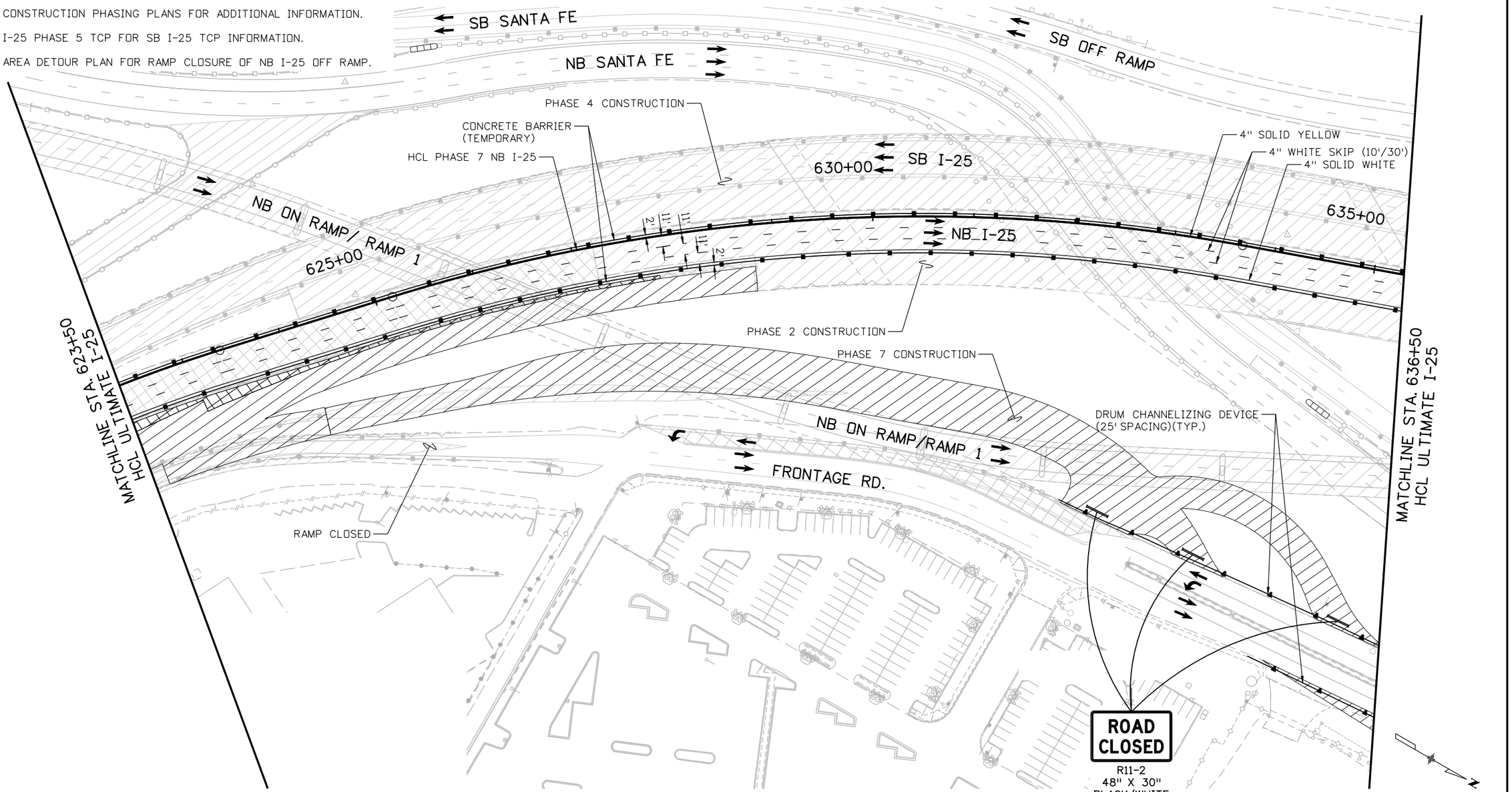
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.
5. SEE AREA DETOUR PLAN FOR RAMP CLOSURE OF NB I-25 OFF RAMP.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH7_plan04_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Detailer: K. ROTH / Sheet Subset: TCP / Structure Numbers / Subset Sheets: 52 of 79	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:		Sheet Number 654a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

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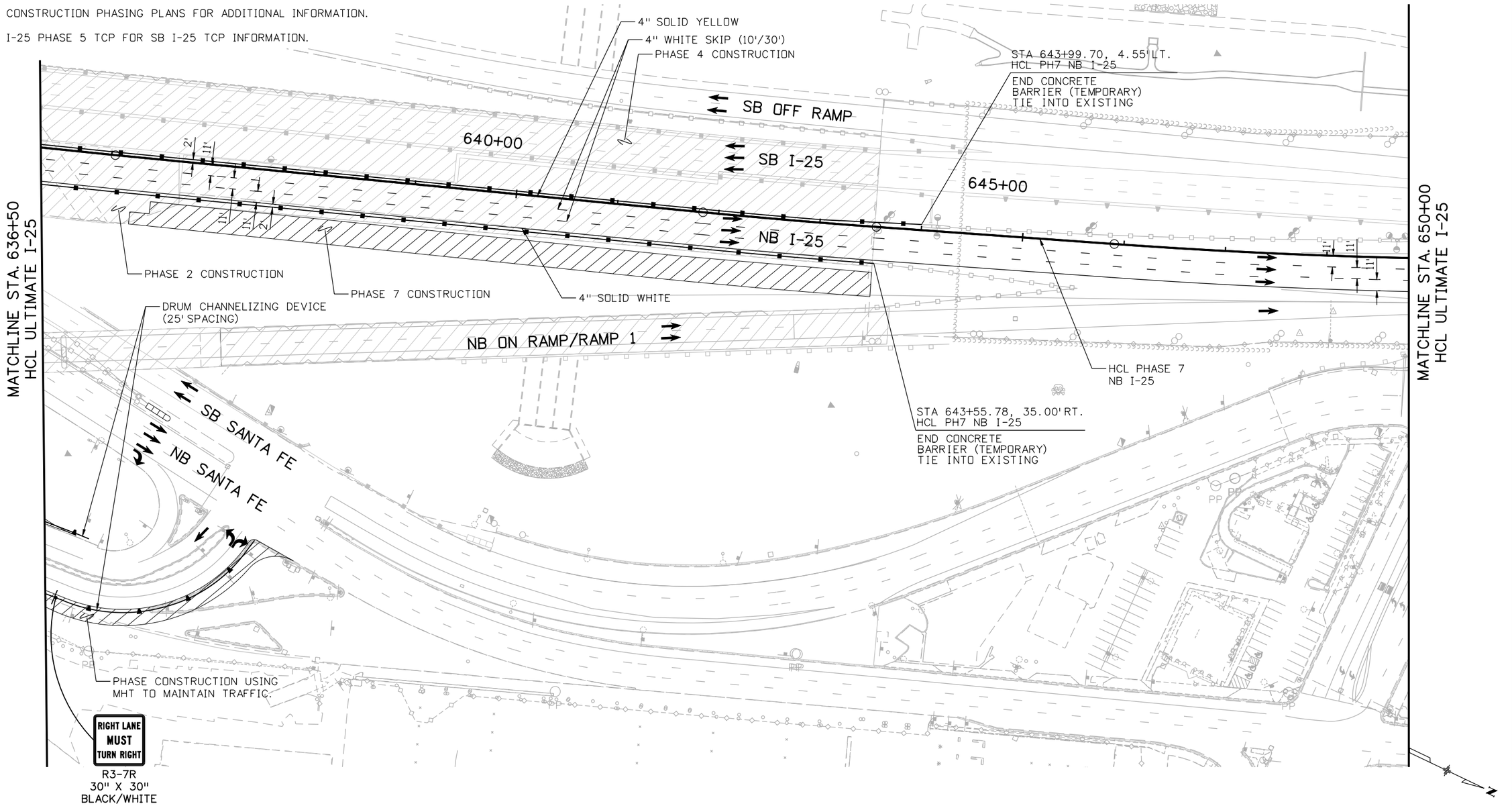
16311 HA TRAF_ PH2_TCP_PH7_plan04_I-25.dgn 12/22/2010 1:38:18 PM

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.

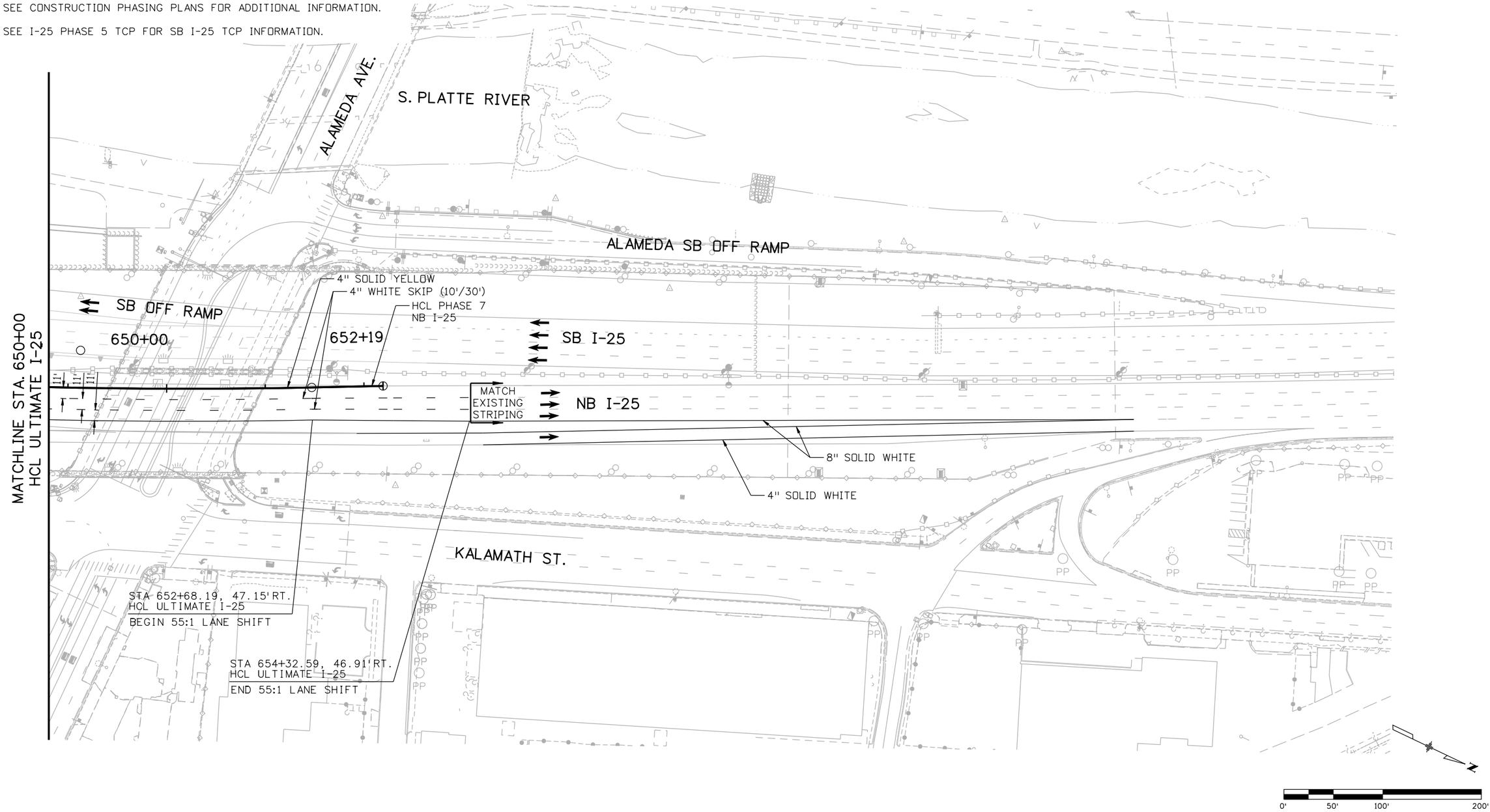


Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH7_plan05_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers:	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH / Sheet Subset: TCP / Subset Sheets: 53 of 79	Sheet Number 655a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 1:38:26 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH7_plan05_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.

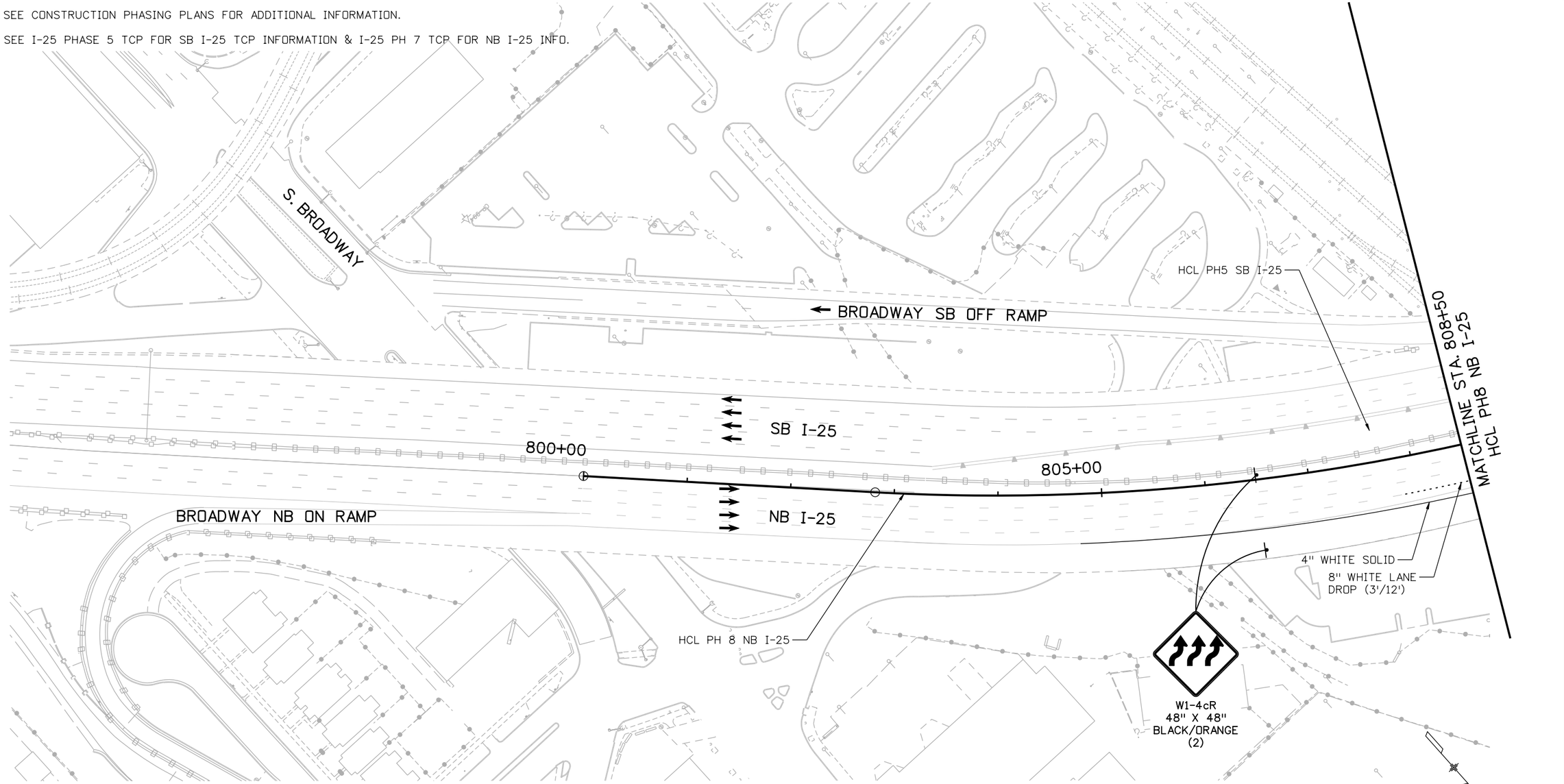


Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 7 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH7_plan06_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Detailer: K. ROTH / Sheet Subset: TCP / Structure Numbers / Subset Sheets: 54 of 79	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH		Void:		Sheet Number 656a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB			

kroth 1:38:35 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH7_plan06_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION & I-25 PH 7 TCP FOR NB I-25 INFO.



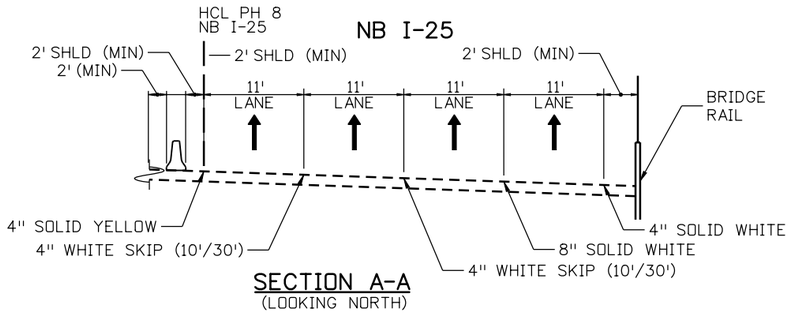
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311 HA TRAF_ PH2_TCP_PH8_plan01_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100.084 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 8 I-25 TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			Sheet Number 657a B
	Sheet Subset: TCP	Subset Sheets: 55 of 79		

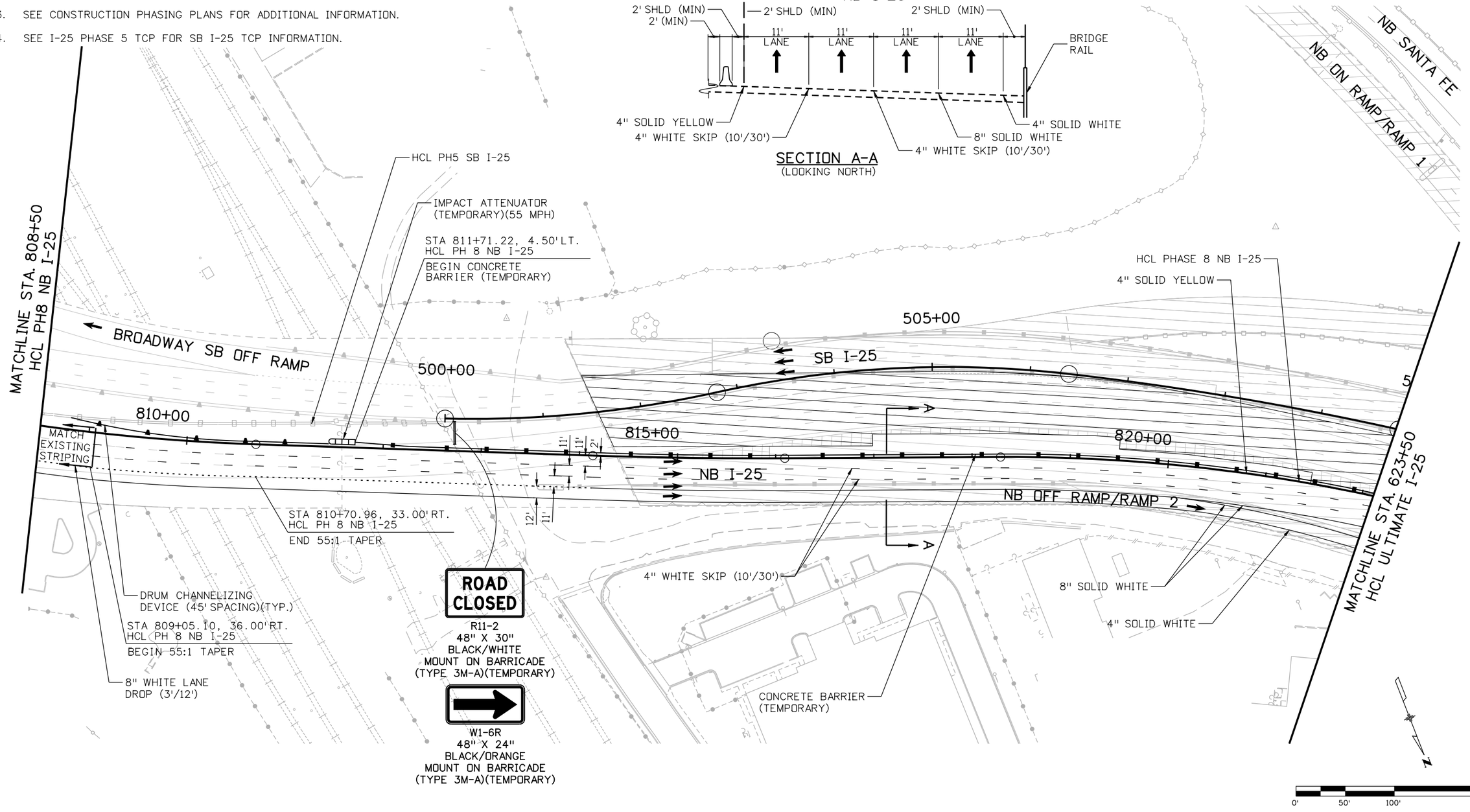
kroth 1:38:48 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH8_plan01_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt
CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



SECTION A-A
(LOOKING NORTH)



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Horiz. Scale: 1:400 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111				

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE
PHASE 8
I-25 TCP

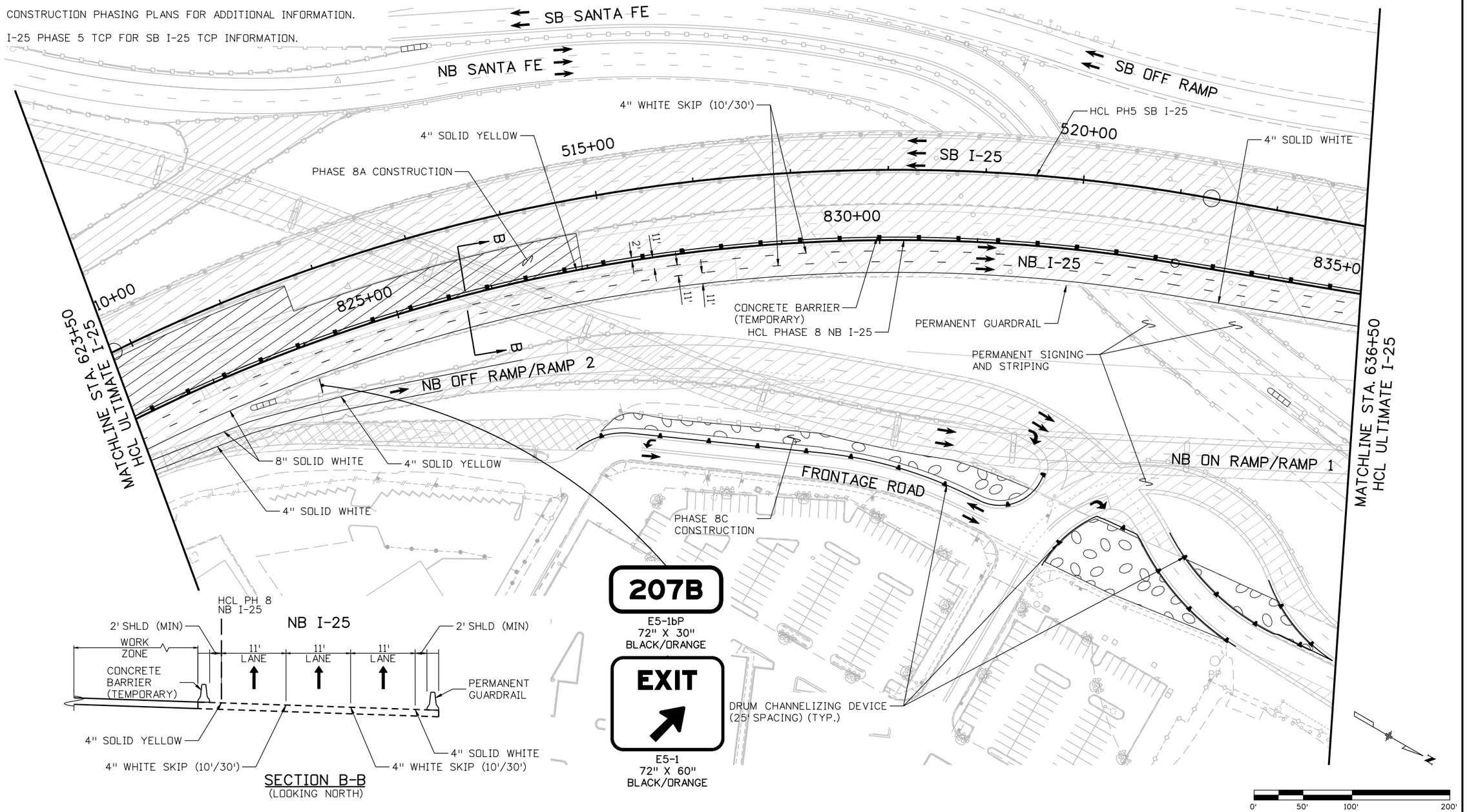
Designer:	M. HARTWIG	Structure Numbers	
Detailer:	K. ROTH		
Sheet Subset:	TCP	Subset Sheets:	56 of 79

Project No./Code	
BR 0252-407	
17783	
Sheet Number	658a B

kroth 1:38:56 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH8_plan02_I-25.dgn
12/22/2010 CDOT-PhasingPDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



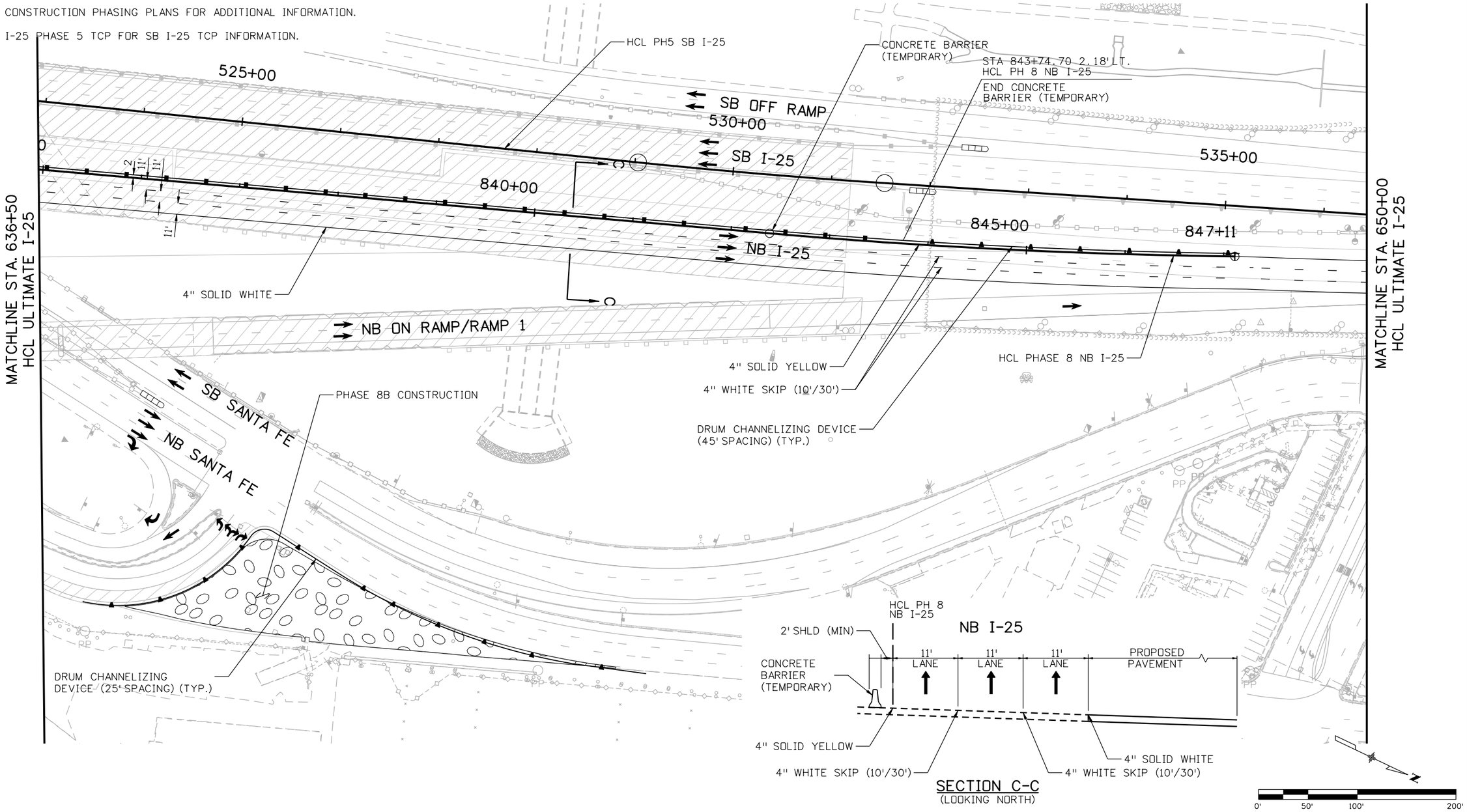
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311 HA TRAF_ PH2_TCP_PH8_plan03_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 8 I-25 TCP			Project No./Code
No Revisions:				BR 0252-407
Revised:	Designer: M. HARTWIG	Structure Numbers		17783
Void:	Detailer: K. ROTH			
	Sheet Subset: TCP	Subset Sheets: 57 of 79		Sheet Number 659a B

kroth 1:39:04 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH8_plan03_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



SECTION C-C
(LOOKING NORTH)

Print Date: 12/22/2010		Sheet Revisions			
File Name: 16311 HA TRAF_ PH2_TCP_PH8_plan04_I-25.dgn		Date:	Comments	Init.	
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

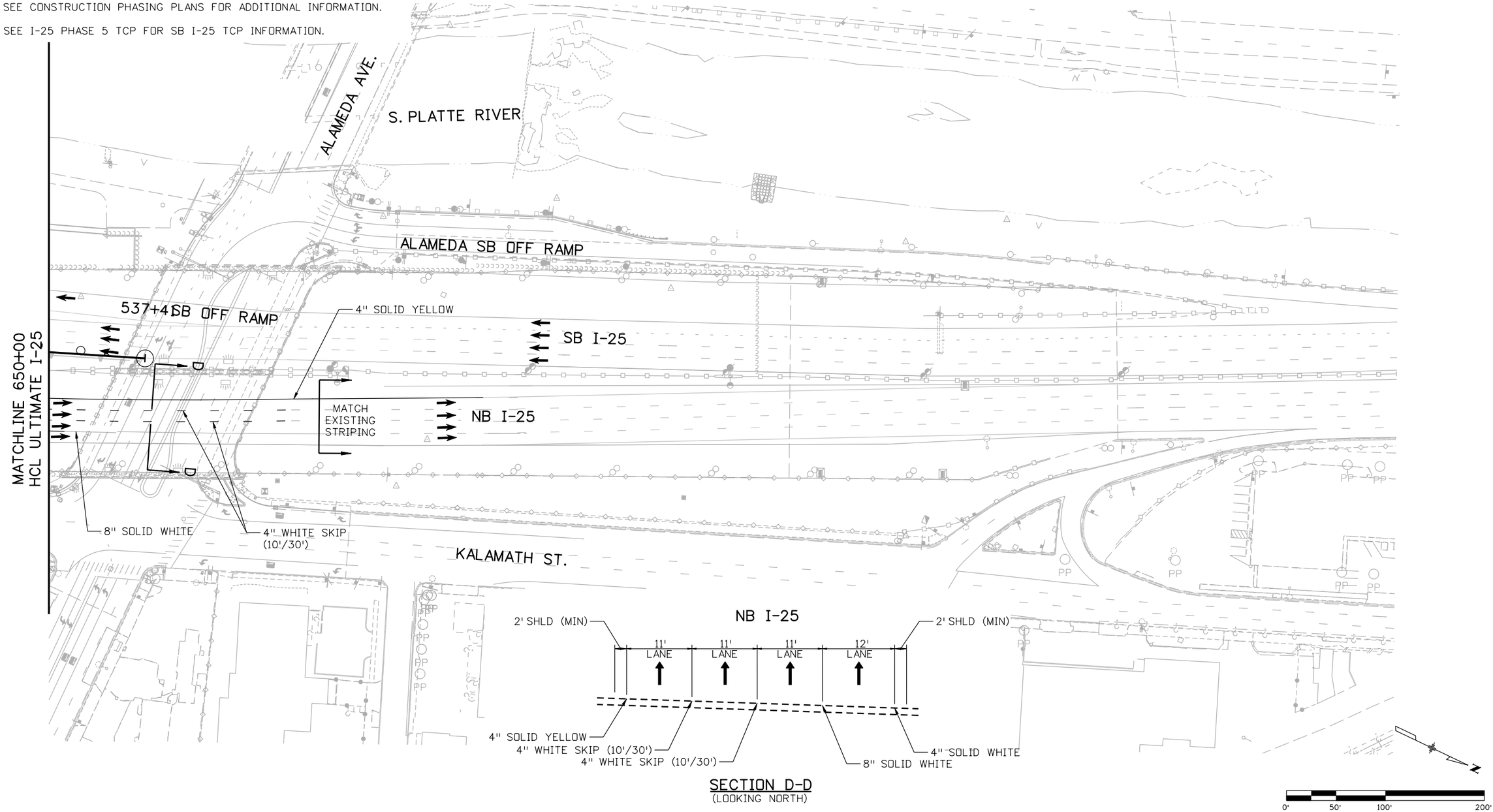
Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 8 I-25 TCP			Project No./Code
No Revisions:	Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Revised:	Detailer: K. ROTH			17783
Void:	Sheet Subset: TCP	Subset Sheets: 58 of 59		Sheet Number 660a B

kroth 1:39:13 PM P:\FHU\Santa Fe & I-25\16311\Trafic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH8_plan04_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.
4. SEE I-25 PHASE 5 TCP FOR SB I-25 TCP INFORMATION.



SECTION D-D
(LOOKING NORTH)

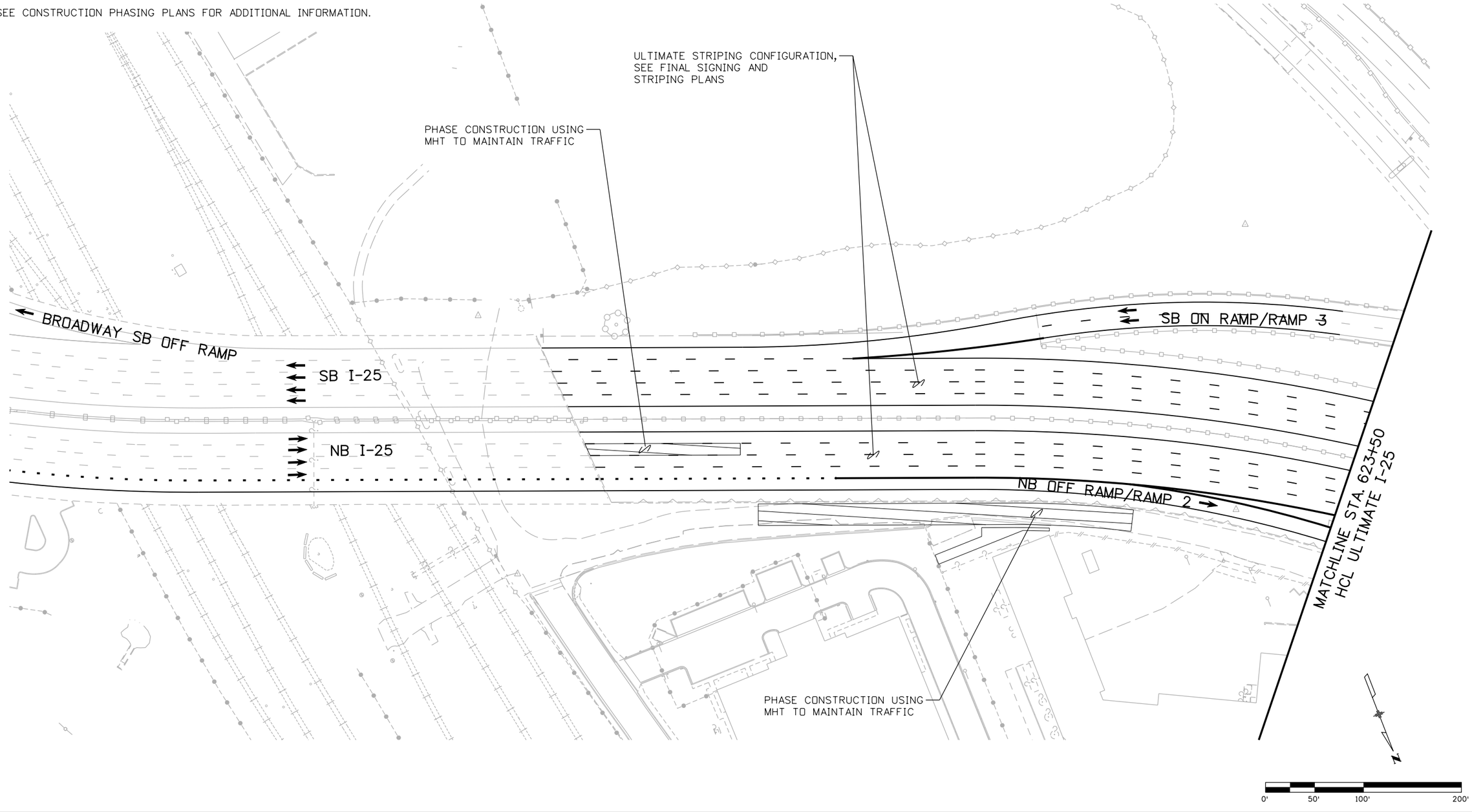
Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation
File Name: 16311 HA TRAF_ PH2_TCP_PH8_plan05_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH	Region 6 RLB
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111					

As Constructed	I-25/SANTA FE INTERCHANGE PHASE 8 I-25 TCP			Project No./Code
No Revisions:	Designer: M. HARTWIG	Structure Numbers		BR 0252-407
Revised:	Detailer: K. ROTH			17783
Void:	Sheet Subset: TCP	Subset Sheets: 59 of 79		Sheet Number 661a B

kroth 1:39:22 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH8_plan05_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.

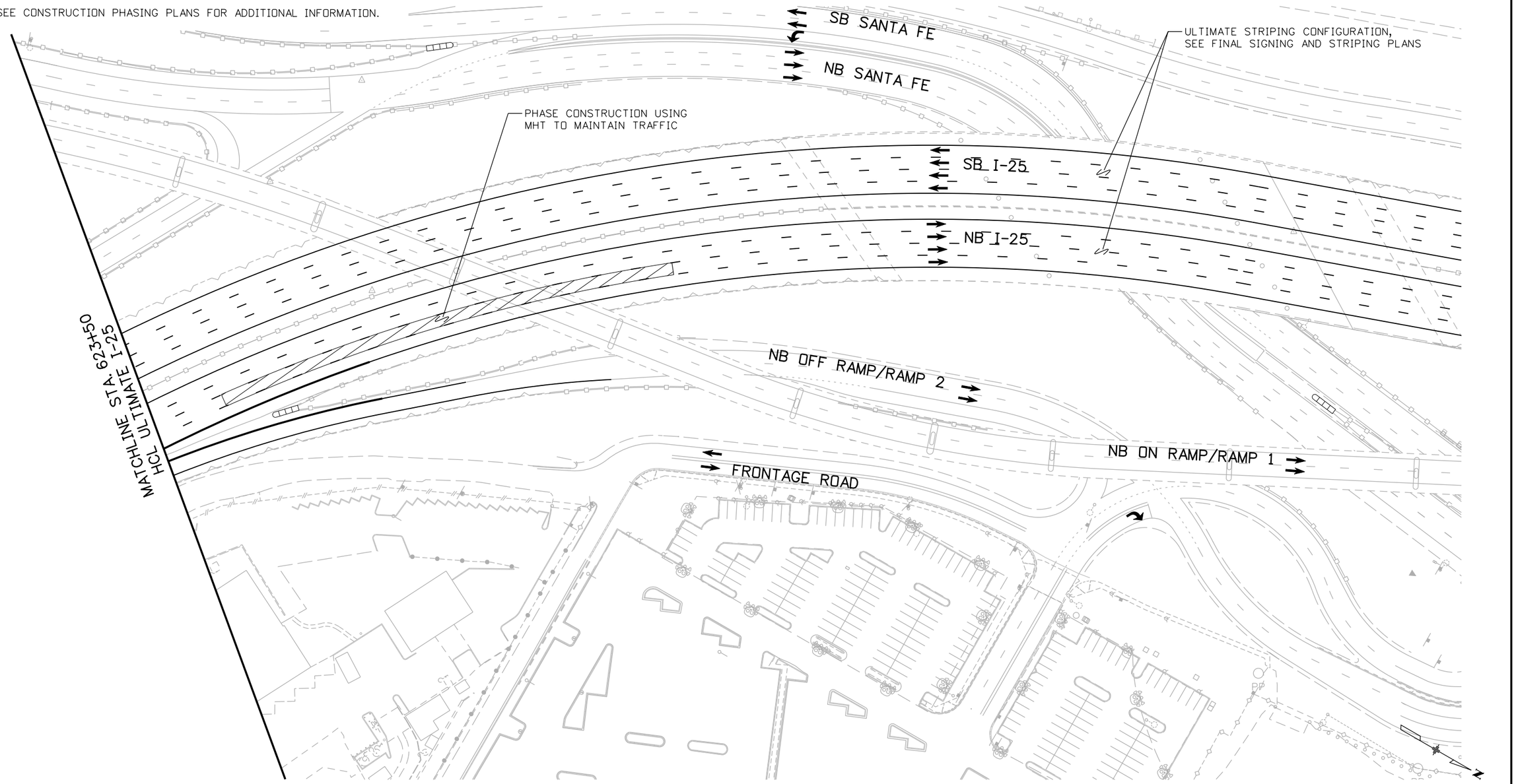


Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 9 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH9_plan01_I-25.dgn		Date:	Comments	Init.	DOT DEPARTMENT OF TRANSPORTATION 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Structure Numbers	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Detailer: K. ROTH	Sheet Number 662a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111							Sheet Subset: TCP / Subset Sheets: 60 of 79	

kroth 1:39:33 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH9_plan01_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

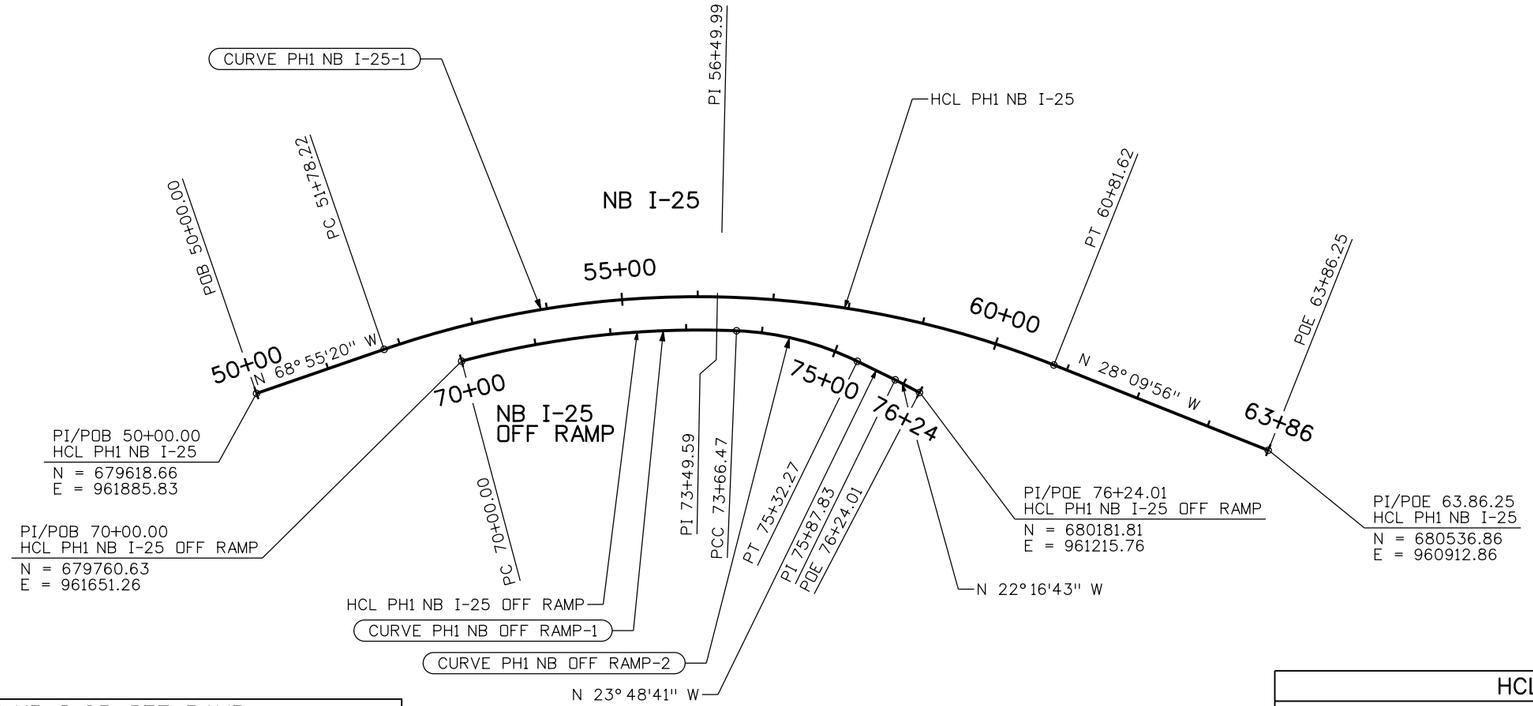
NOTES:

1. SEE ADVANCE WARNING SIGNING PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE TCP GEOMETRIC LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
3. SEE CONSTRUCTION PHASING PLANS FOR ADDITIONAL INFORMATION.



Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE PHASE 9 I-25 TCP	Project No./Code
File Name: 16311 HA TRAF_ PH2_TCP_PH9_plan02_I-25.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:		BR 0252-407
Horiz. Scale: 1:100 Vert. Scale: As Noted	R-1	12-3-10	ISSUED SHEET	MLH		Revised:	Designer: M. HARTWIG / Detailer: K. ROTH / Sheet Subset: TCP	17783
Unit Information Unit Leader Initials	R-2	1-3-11	RE-ISSUED SHEET	MLH	Region 6 RLB	Void:	Structure Numbers / Subset Sheets: 61 of 79	Sheet Number 663a B
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111								

kroth 1:39:39 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH9_plan02_I-25.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl



HCL PH1 NB I-25 OFF RAMP

		STATION	NORTHING	EASTING
CURVE PH1 NB I-25 OFF RAMP-1	ELEMENT: CIRCULAR			
	PC:	70+00.00	679760.63	961651.26
	PI:	71+84.63	679839.20	961484.18
	PCC:	73+66.47	679963.80	961347.93
	RADIUS:	1217.00		
	DELTA:	17° 15'12" RIGHT		
	D.O.C.(ARC):	4° 42'29"		
	LENGTH:	366.47		
	TANGENT:	184.63		
	TANGENT DIRECTION:	N 64° 48'46" W	e = 2.8%±	
	CHORD DIRECTION:	N 56° 11'10" W	* MDS = 55 MPH	
	TANGENT DIRECTION:	N 47° 33'33" W	SSD = 271'(37 MPH)	
CURVE PH1 NB I-25 OFF RAMP-2	ELEMENT: CIRCULAR			
	PCC:	73+66.47	679963.80	961347.93
	PI:	74+50.58	680020.55	961285.86
	PT:	75+32.27	680097.50	961251.91
	RADIUS:	400.00		
	DELTA:	23° 44'53" RIGHT		
	D.O.C.(ARC):	14° 19'26"		
	LENGTH:	165.79		
	TANGENT:	84.10		
	TANGENT DIRECTION:	N 47° 33'33" W	e = -0.2%±	
	CHORD DIRECTION:	N 35° 41'07" W	* MDS = 32 MPH	
	TANGENT DIRECTION:	N 23° 48'41" W	SSD = 156'(25 MPH)	

HCL PH1 NB I-25 OFF RAMP (CONTINUED)

		STATION	NORTHING	EASTING
	ELEMENT: LINEAR			
	PT:	75+32.27	680097.50	961251.91
	PI:	75+87.83	680148.33	961229.48
	TANGENT DIRECTION:	N 23° 48'41" W		
	TANGENT LENGTH:	55.56		
	ELEMENT: LINEAR			
	PI:	75+87.83	680148.33	961229.48
	POE:	76+24.01	680181.81	961215.76
	TANGENT DIRECTION:	N 22° 16'43" W		
	TANGENT LENGTH:	36.19		

HCL PH1 NB I-25

		STATION	NORTHING	EASTING
	ELEMENT: LINEAR			
	POB:	50+00.00	679618.66	961885.83
	PC:	51+78.22	679682.75	961719.53
	TANGENT DIRECTION:	N 68° 55'20" W		
	TANGENT LENGTH:	178.22		
CURVE PH1 NB I-25-1	ELEMENT: CIRCULAR			
	PC:	51+78.22	679682.75	961719.53
	PI:	56+49.99	679852.41	961279.33
	PT:	60+81.62	680268.31	961056.65
	RADIUS:	1270.00		
	DELTA:	40° 45'24" RIGHT		
	D.O.C.(ARC):	4° 30'41"		
	LENGTH:	903.40		
	TANGENT:	471.76		
	TANGENT DIRECTION:	N 68° 55'20" W	e = 2.0%±	
	CHORD DIRECTION:	N 48° 32'38" W	* MDS = 54 MPH	
	TANGENT DIRECTION:	N 28° 09'56" W	SSD = 427'(50 MPH)	
	ELEMENT: LINEAR			
	PT:	60+81.62	680268.31	961056.65
	POE:	63+86.25	680536.86	960912.86
	TANGENT DIRECTION:	N 28° 09'56" W		
	TANGENT LENGTH:	304.62		

*BASED ON DETOUR DESIGN CRITERIA.

0' 100' 200' 400'

Print Date: 12/22/2010
File Name: 16311 HA TRAF_ PH2_TCP_PH1_I-25_Geo.dgn
Horiz. Scale: 1:200 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-3-11	ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

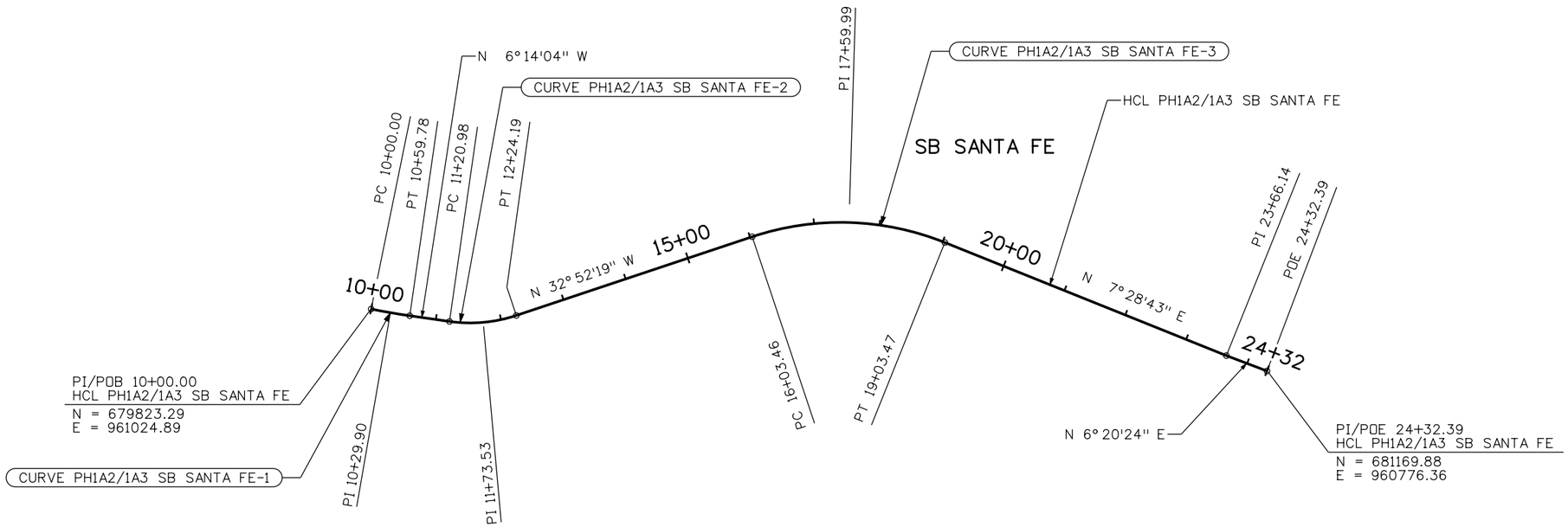
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 1 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 62 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 664a B

kroth 1:39:45 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH1_I-25_Geo.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl



HCL PH1A2/1A3 SB SANTA FE

CURVE PH1A2/1A3 SB SANTA FE-1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	10+00.00	679823.29	961024.89
PI:	10+29.90	679853.14	961023.38
PT:	10+59.78	679882.86	961020.14
RADIUS:	1022.00		
DELTA:	3°21'04" LEFT		
D.O.C.(ARC):	5°36'22"		
LENGTH:	59.78		
TANGENT:	29.90		
TANGENT DIRECTION:	N 2°53'00" W	e = 1.5%±	
CHORD DIRECTION:	N 4°33'32" W	* MDS > 45 MPH	
TANGENT DIRECTION:	N 6°14'04" W	SSD = 246'(35 MPH)	

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT:	10+59.78	679882.86	961020.14
PC:	11+20.98	679943.70	961013.49
TANGENT DIRECTION:	N 6°14'04" W		
TANGENT LENGTH:	61.20		

CURVE PH1A2/1A3 SB SANTA FE-2

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	11+20.98	679943.70	961013.49
PI:	11+73.53	679995.95	961007.78
PT:	12+24.19	680040.09	960979.26
RADIUS:	222.00		
DELTA:	26°38'15" LEFT		
D.O.C.(ARC):	25°48'32"		
LENGTH:	103.21		
TANGENT:	52.56		
TANGENT DIRECTION:	N 6°14'04" W	e = 1.5%±	
CHORD DIRECTION:	N 19°33'11" W	* MDS = 27 MPH	
TANGENT DIRECTION:	N 32°52'19" W	SSD = 111'(20 MPH)	

HCL PH1A2/1A3 SB SANTA FE (CONTINUED)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT:	12+24.19	680040.09	960979.26
PC:	16+03.46	680358.63	960773.40
TANGENT DIRECTION:	N 32°52'19" W		
TANGENT LENGTH:	379.27		

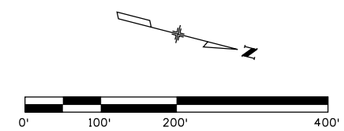
CURVE PH1A2/1A3 SB SANTA FE-3

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	16+03.46	680358.63	960773.40
PI:	17+59.99	680490.10	960688.45
PT:	19+03.47	680645.29	960708.82
RADIUS:	426.00		
DELTA:	40°21'02" RIGHT		
D.O.C.(ARC):	13°26'59"		
LENGTH:	300.01		
TANGENT:	156.53		
TANGENT DIRECTION:	N 32°52'19" W	e = 2.0%±	
CHORD DIRECTION:	N 12°41'48" W	* MDS > 25 MPH	
TANGENT DIRECTION:	N 7°28'43" E	SSD = 161'(26 MPH)	

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT:	19+03.47	680645.29	960708.82
PI:	23+66.14	681104.03	960769.04
TANGENT DIRECTION:	N 7°28'43" E		
TANGENT LENGTH:	462.68		

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PI:	23+66.14	681104.03	960769.04
POE:	24+32.39	681169.88	960776.36
TANGENT DIRECTION:	N 6°20'24" E		
TANGENT LENGTH:	66.25		

*BASED ON DETOUR DESIGN CRITERIA.



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Horiz. Scale: 1:200 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

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Sheet Revisions

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Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
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Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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I-25/SANTA FE INTERCHANGE
PHASE 1A2/1A3 - SANTA FE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 63 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 665a B

kroth 1:39:50 PM P:\FHU\Santa Fe & I-25\16311\Traffic_ITS\Drawings\Phase 2 drawings\16311 HA TRAF_ PH2_TCP_PH1a2_1a3_Santa Fe_Geo.dgn
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl

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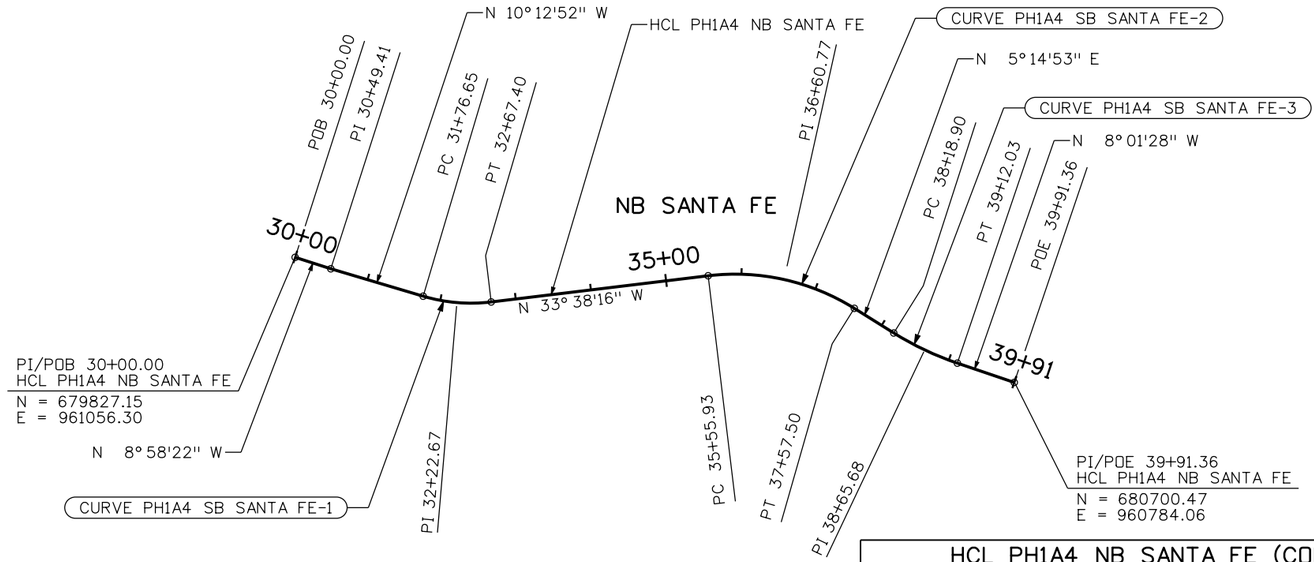


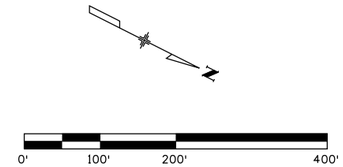
HCL PH1A4 NB SANTA FE

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB:	30+00.00	679778.35	961064.01
PI:	30+49.41	679827.15	961056.30
TANGENT DIRECTION:	N 8°58'22" W		
TANGENT LENGTH:	49.41		
ELEMENT: LINEAR			
PI:	30+49.41	679827.15	961056.30
PC:	31+76.65	679952.37	961033.74
TANGENT DIRECTION:	N 10°12'52" W		
TANGENT LENGTH:	127.24		
CURVE PH1A4 NB SANTA FE-1			
ELEMENT: CIRCULAR			
PC:	31+76.65	679952.37	961033.74
PI:	32+22.67	679997.66	961025.57
PT:	32+67.40	680035.98	961000.08
RADIUS:	222.00		
DELTA:	23°25'24" LEFT		
D.O.C.(ARC):	25°48'32"		
LENGTH:	90.76		
TANGENT:	46.02		
TANGENT DIRECTION:	N 10°12'52" W	e = 2.0%±	
CHORD DIRECTION:	N 21°55'34" W	* MDS = 25 MPH	
TANGENT DIRECTION:	N 33°38'16" W	SSD = 117'(20 MPH)	
ELEMENT: LINEAR			
PT:	32+67.40	680035.98	961000.08
PC:	35+55.93	680276.19	960840.25
TANGENT DIRECTION:	N 33°38'16" W		
TANGENT LENGTH:	288.53		

HCL PH1A4 NB SANTA FE (CONTINUED)

	STATION	NORTHING	EASTING
CURVE PH1A4 NB SANTA FE-2			
ELEMENT: CIRCULAR			
PC:	35+55.93	680276.19	960840.25
PI:	36+60.77	680363.48	960782.18
PT:	37+57.50	680467.88	960791.77
RADIUS:	297.00		
DELTA:	38°53'09" RIGHT		
D.O.C.(ARC):	19°17'29"		
LENGTH:	201.57		
TANGENT:	104.84		
TANGENT DIRECTION:	N 33°38'16" W	e = 2.0%±	
CHORD DIRECTION:	N 14°11'42" W	* MDS = 30 MPH	
TANGENT DIRECTION:	N 5°14'53" E	SSD = 130'(22 MPH)	
ELEMENT: LINEAR			
PT:	37+57.50	680467.88	960791.77
PC:	38+18.90	680529.03	960797.38
TANGENT DIRECTION:	N 5°14'53" E		
TANGENT LENGTH:	61.40		
CURVE PH1A4 NB SANTA FE-3			
ELEMENT: CIRCULAR			
PC:	38+18.90	680529.03	960797.38
PI:	38+65.68	680575.60	960801.66
PT:	39+12.03	680621.91	960795.13
RADIUS:	402.00		
DELTA:	13°16'21" LEFT		
D.O.C.(ARC):	14°15'10"		
LENGTH:	93.12		
TANGENT:	46.77		
TANGENT DIRECTION:	N 5°14'53" E	e = -2.0%±	
CHORD DIRECTION:	N 1°23'18" W	* MDS = 31 MPH	
TANGENT DIRECTION:	N 8°01'28" W	SSD = 157'(25 MPH)	
ELEMENT: LINEAR			
PT:	39+12.03	680621.91	960795.13
POE:	39+91.36	680700.47	960784.06
TANGENT DIRECTION:	N 8°01'28" W		
TANGENT LENGTH:	79.33		

*BASED ON DETOUR DESIGN CRITERIA



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2000 South Holly Street
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Region 6 RLB

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 1A4 - SANTA FE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 64 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 666a B

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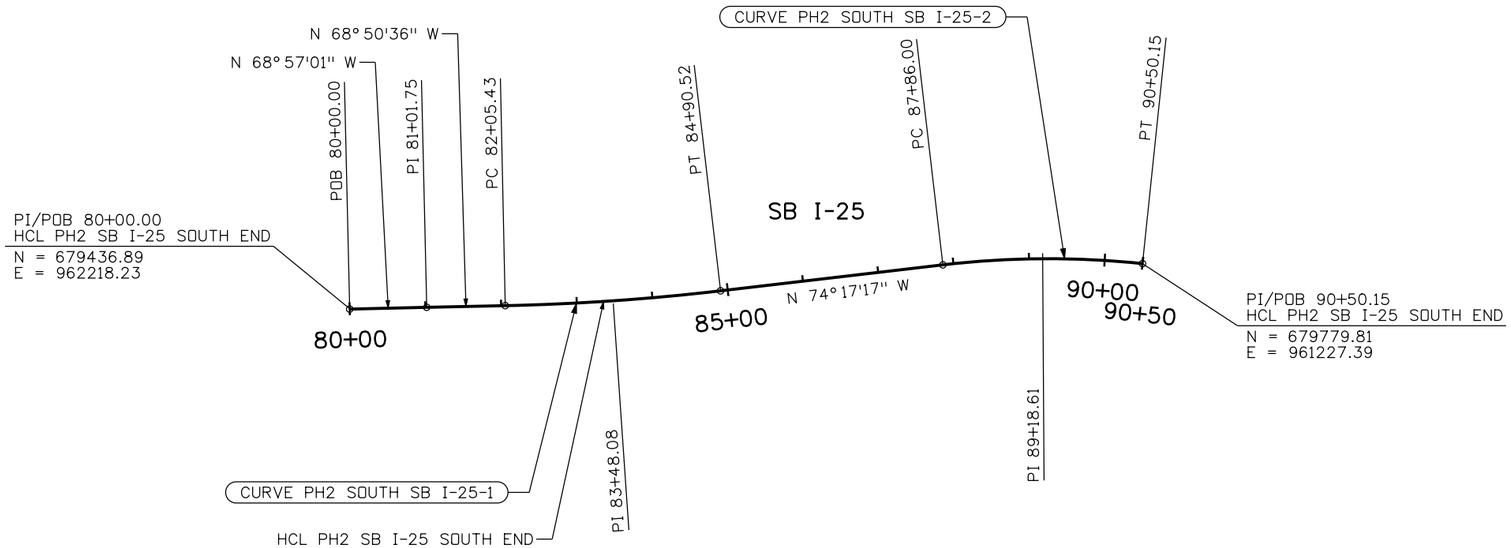
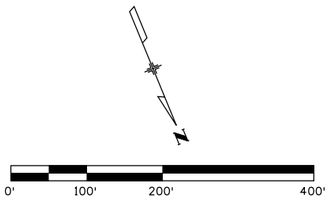


HCL PH2 SB I-25 SOUTH END			
	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB:	80+00.00	679436.89	962218.23
PI:	81+01.75	679473.43	962123.27
TANGENT DIRECTION:	N 68°57'01" W		
TANGENT LENGTH:	101.75		
ELEMENT: LINEAR			
PI:	81+01.75	679473.43	962123.27
PC:	82+05.43	679510.85	962026.58
TANGENT DIRECTION:	N 68°50'36" W		
TANGENT LENGTH:	103.68		
CURVE PH2 SOUTH SB I-25-1			
ELEMENT: CIRCULAR			
PC:	82+05.43	679510.85	962026.58
PI:	83+48.08	679562.34	961893.54
PT:	84+90.52	679600.97	961756.22
RADIUS:	3000.00		
DELTA:	5°26'41" LEFT		
D.O.C.(ARC):	1°54'35"		
LENGTH:	285.09		
TANGENT:	142.65		
TANGENT DIRECTION:	N 68°50'36" W	e = 0.7%±	
CHORD DIRECTION:	N 71°33'57" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 74°17'17" W	SSD = 422'(50 MPH)	

HCL PH2 SB I-25 SOUTH END (CONTINUED)			
	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT:	84+90.52	679600.97	961756.22
PC:	87+86.00	679680.98	961471.78
TANGENT DIRECTION:	N 74°17'17" W		
TANGENT LENGTH:	295.48		
CURVE PH2 SOUTH SB I-25-2			
ELEMENT: CIRCULAR			
PC:	87+86.00	679680.98	961471.78
PI:	89+18.61	679716.90	961344.12
PT:	90+50.15	679779.81	961227.39
RADIUS:	1200.00		
DELTA:	12°36'44" RIGHT		
D.O.C.(ARC):	4°46'29"		
LENGTH:	264.15		
TANGENT:	132.61		
TANGENT DIRECTION:	N 74°17'17" W	e = 4.5%±	
CHORD DIRECTION:	N 67°58'56" W	* MDS = 56 MPH	
TANGENT DIRECTION:	N 61°40'34" W	SSD = 269'(37 MPH)	

*BASED ON DETOUR DESIGN CRITERIA.



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2000 South Holly Street
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Region 6 RLB

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I-25/SANTA FE INTERCHANGE
PHASE 2 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 65 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 667a B

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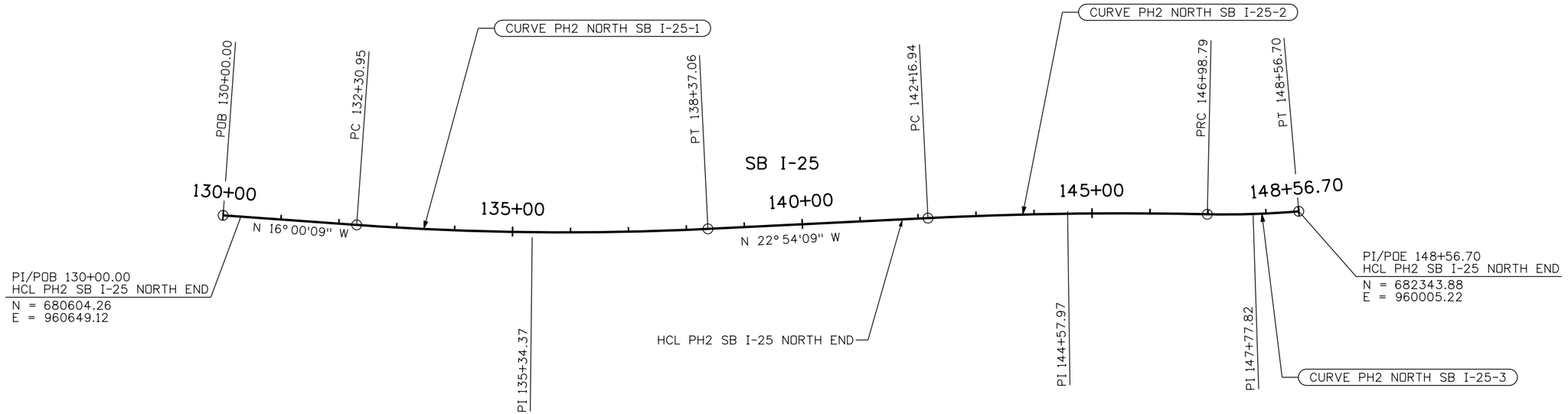


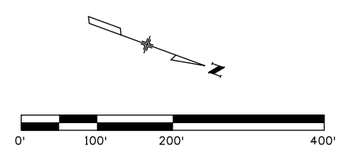
HCL PH2 SB I-25 NORTH END

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	POB:	130+00.00	680604.26	960649.12
	PC:	132+30.95	680826.25	960585.45
TANGENT DIRECTION:		N 16° 00'09" W		
TANGENT LENGTH:		230.95		
CURVE PH2 NORTH SB I-25-1				
ELEMENT: CIRCULAR				
	PC:	132+30.95	680826.25	960585.45
	PI:	135+34.37	681117.92	960501.80
	PT:	138+37.06	681397.43	960383.72
RADIUS:		5033.00		
DELTA:		6° 54'00" LEFT		
D.O.C.(ARC):		1° 08'18"		
LENGTH:		606.12		
TANGENT:		303.42		
TANGENT DIRECTION:		N 16° 00'09" W	e = +1.9%±	
CHORD DIRECTION:		N 19° 27'09" W	* MDS > 55 MPH	
TANGENT DIRECTION:		N 22° 54'09" W	SSD = 548'(>58 mph)	
ELEMENT: LINEAR				
	PT:	138+37.06	681397.43	960383.72
	PC:	142+16.94	681747.36	960235.89
TANGENT DIRECTION:		N 22° 54'09" W		
TANGENT LENGTH:		379.87		

HCL PH2 SB I-25 NORTH END (CONTINUED)

		STATION	NORTHING	EASTING
CURVE PH2 NORTH SB I-25-2				
ELEMENT: CIRCULAR				
	PC:	142+16.94	681747.36	960235.89
	PI:	144+57.97	681969.38	960142.09
	PRC:	146+98.79	682197.46	960064.15
RADIUS:		6839.66		
DELTA:		4° 02'11" RIGHT		
D.O.C.(ARC):		0° 50'16"		
LENGTH:		481.86		
TANGENT:		241.03		
TANGENT DIRECTION:		N 22° 54'09" W	e = -2.2%±	
CHORD DIRECTION:		N 20° 53'03" W	* MDS > 55 MPH	
TANGENT DIRECTION:		N 18° 51'57" W	SSD = 495'(>55 MPH)	
CURVE PH2 NORTH SB I-25-3				
ELEMENT: CIRCULAR				
	PRC:	146+98.79	682197.46	960064.15
	PI:	147+77.82	682272.24	960038.60
	PT:	148+56.70	682343.88	960005.22
RADIUS:		1478.85		
DELTA:		6° 07'04" LEFT		
D.O.C.(ARC):		3° 52'28"		
LENGTH:		157.91		
TANGENT:		79.03		
TANGENT DIRECTION:		N 18° 51'57" W	e = 2.0%±	
CHORD DIRECTION:		N 21° 55'30" W	* MDS > 55 MPH	
TANGENT DIRECTION:		N 24° 59'02" W	SSD = 464'(52 MPH)	

*BASED ON DETOUR DESIGN CRITERIA.



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I-25/SANTA FE INTERCHANGE
PHASE 2 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 66 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 668a B

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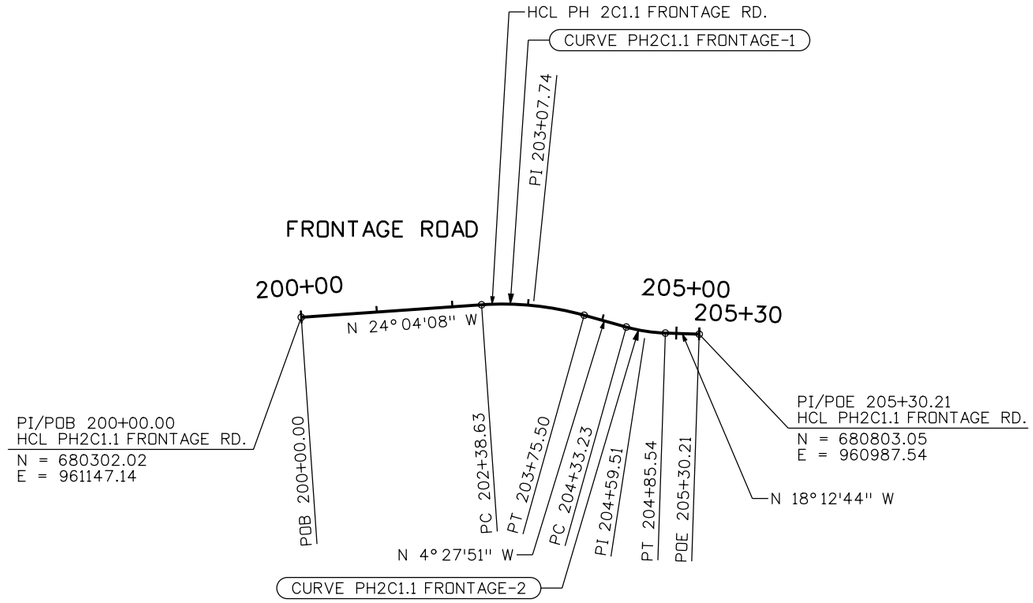
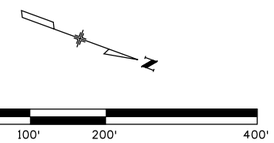


HCL PH2C1.1 FRONTAGE ROAD

		STATION	NORTHING	EASTING
	ELEMENT: LINEAR			
	POB:	200+00.00	680302.02	961147.14
	PC:	202+38.63	680519.90	961049.82
	TANGENT DIRECTION:	N 24°04'08" W		
	TANGENT LENGTH:	238.63		
CURVE PH2C1.1 FRONTAGE-1	ELEMENT: CIRCULAR			
	PC:	202+38.63	680519.90	961049.82
	PI:	203+07.74	680583.00	961021.63
	PT:	203+75.50	680651.90	961016.25
	RADIUS:	400.00		
	DELTA:	19°36'17" RIGHT		
	D.O.C.(ARC):	14°19'26"		
	LENGTH:	136.87		
	TANGENT:	69.11		
	TANGENT DIRECTION:	N 24°04'08" W	e = 0.6%±	
	CHORD DIRECTION:	N 14°16'00" W	* MDS = 32 MPH	
	TANGENT DIRECTION:	N 4°27'51" W	SSD = 154'(25 MPH)	
	ELEMENT: LINEAR			
	PT:	203+75.50	680651.90	961016.25
	PC:	204+33.23	680709.46	961011.76
	TANGENT DIRECTION:	N 4°27'51" W		
	TANGENT LENGTH:	57.73		
CURVE PH2C1.1 FRONTAGE-2	ELEMENT: CIRCULAR			
	PC:	204+33.23	680709.46	961011.76
	PI:	204+59.51	680735.66	961009.71
	PT:	204+85.54	680760.62	961001.50
	RADIUS:	218.00		
	DELTA:	13°44'54" LEFT		
	D.O.C.(ARC):	26°16'57"		
	LENGTH:	52.31		
	TANGENT:	26.28		
	TANGENT DIRECTION:	N 4°27'51" W	e = -1.7%±	
	CHORD DIRECTION:	N 11°20'18" W	* MDS = 25 MPH	
	TANGENT DIRECTION:	N 18°12'44" W	SSD = 113'(20 MPH)	
	ELEMENT: LINEAR			
	PT:	204+85.54	680760.62	961001.50
	POE:	205+30.21	680803.05	960987.54
	TANGENT DIRECTION:	N 18°12'44" W		
	TANGENT LENGTH:	44.67		

*BASED ON DETOUR DESIGN CRITERIA.



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I-25/SANTA FE INTERCHANGE
PHASE 2C1.1 - FRONTAGE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 67 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 669a B

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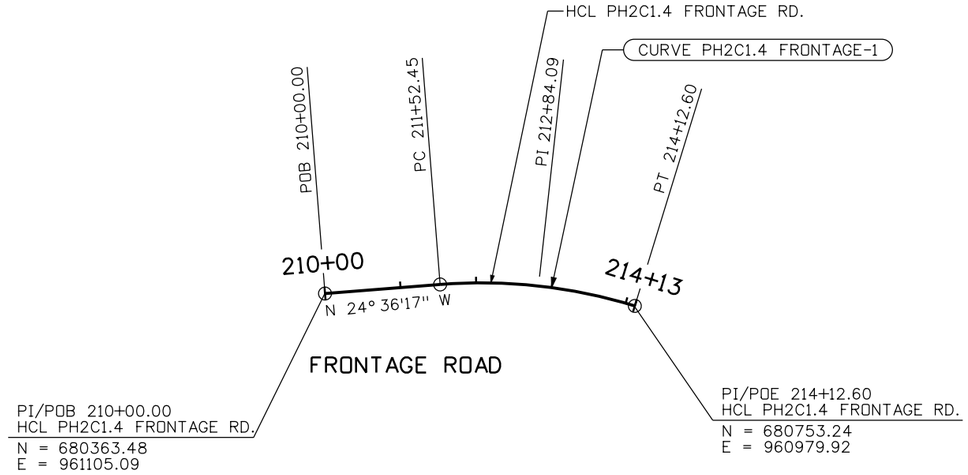


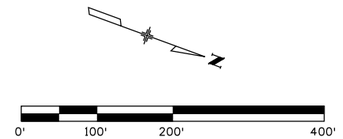
HCL PH2C1.4 FRONTAGE RD.

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB:	210+00.00	680363.48	961105.09
PC:	211+52.45	680502.08	961041.62
TANGENT DIRECTION:	N 24° 36'17" W		
TANGENT LENGTH:	152.45		

(CURVE PH2C1.4 FRONTAGE-1)

ELEMENT: CIRCULAR			
PC:	211+52.45	680502.08	961041.62
PI:	212+84.09	680621.77	960986.81
PT:	214+12.60	680753.24	960979.92
RADIUS:	690.00		
DELTA:	21° 36'10" RIGHT		
D.O.C.(ARC):	8° 18'13"		
LENGTH:	260.16		
TANGENT:	131.64		
TANGENT DIRECTION:	N 24° 36'17" W		e = -1.1%±
CHORD DIRECTION:	N 13° 48'12" W		* MDS > 25 MPH
TANGENT DIRECTION:	N 3° 00'07" W		SSD > 155'(30 MPH)

*BASED ON DETOUR DESIGN CRITERIA.



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File Name: 16311 HA TRAF_ PH2_TCP_PH2c1.4_Frontage_Geo.dgn
Horiz. Scale: 1:200 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-3-11	RE-ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 2C1.4 - FRONTAGE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 68 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 670a B

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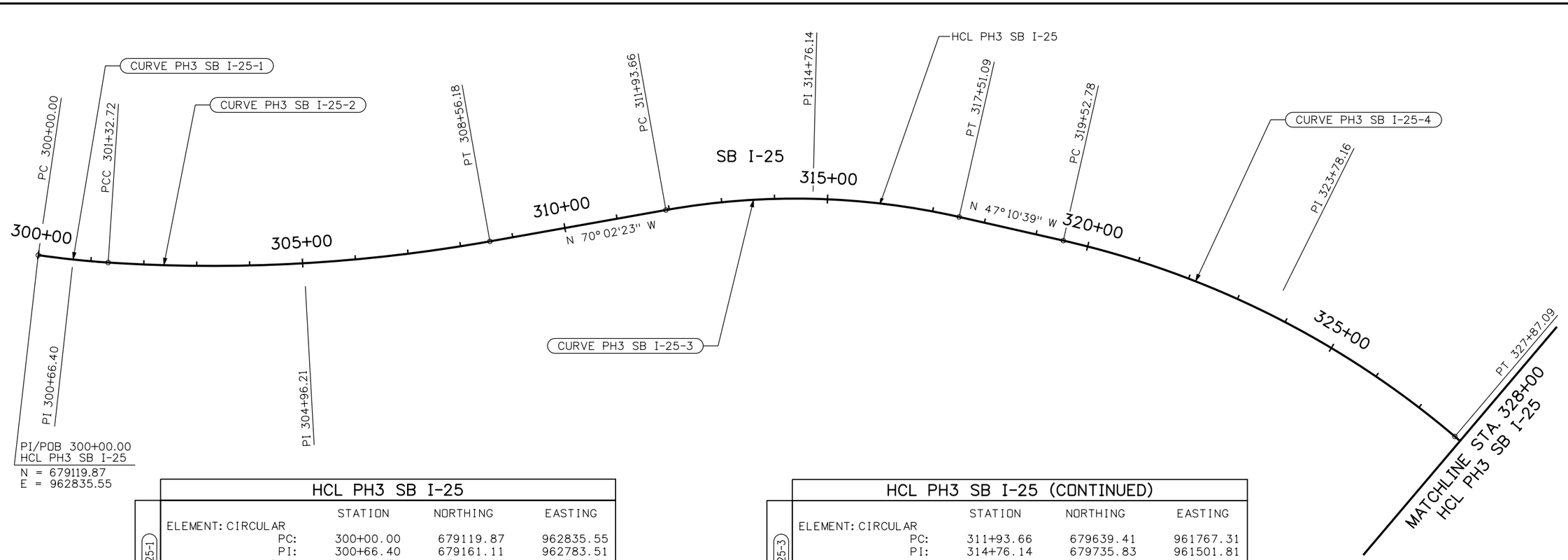
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl



HCL PH3 SB I-25

CURVE PH3 SB I-25-1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	300+00.00	679119.87	962835.55
PI:	300+66.40	679161.11	962783.51
PCC:	301+32.72	679198.02	962728.32
RADIUS:	1647.07		
DELTA:	4°37'01" LEFT		
D.O.C.(ARC):	3°28'43"		
LENGTH:	132.72		
TANGENT:	66.40		
TANGENT DIRECTION:	N 51°36'21" W	e = -0.18%±	
CHORD DIRECTION:	N 53°54'51" W	* MDS = 57 MPH	
TANGENT DIRECTION:	N 56°13'21" W	SSD = 312'(40 MPH)	

CURVE PH3 SB I-25-2

ELEMENT: CIRCULAR			
PCC:	301+32.72	679198.02	962728.32
PI:	304+96.21	679400.11	962426.18
PT:	308+56.18	679524.20	962084.52
RADIUS:	3000.00		
DELTA:	13°49'01" LEFT		
D.O.C.(ARC):	1°54'35"		
LENGTH:	723.46		
TANGENT:	363.49		
TANGENT DIRECTION:	N 56°13'21" W	e = -2.0%±	
CHORD DIRECTION:	N 63°07'52" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 70°02'23" W	SSD = 422'(50 MPH)	

ELEMENT: LINEAR			
PT:	308+56.18	679524.20	962084.52
PC:	311+93.66	679639.41	961767.31
TANGENT DIRECTION:	N 70°02'23" W		
TANGENT LENGTH:	337.48		

* BASED ON DESIGN CRITERIA

HCL PH3 SB I-25 (CONTINUED)

CURVE PH3 SB I-25-3

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	311+93.66	679639.41	961767.31
PI:	314+76.14	679735.83	961501.81
PT:	317+51.09	679927.84	961294.63
RADIUS:	1397.00		
DELTA:	22°51'43" RIGHT		
D.O.C.(ARC):	4°06'05"		
LENGTH:	557.43		
TANGENT:	282.47		
TANGENT DIRECTION:	N 70°02'23" W	e = +2.9%±	
CHORD DIRECTION:	N 58°36'31" W	* MDS > 58 MPH	
TANGENT DIRECTION:	N 47°10'39" W	SSD = 290'(38 MPH)	

ELEMENT: LINEAR			
PT:	317+51.09	679927.84	961294.63
PC:	319+52.78	680064.93	961146.70
TANGENT DIRECTION:	N 47°10'39" W		
TANGENT LENGTH:	201.69		

CURVE PH3 SB I-25-4

ELEMENT: CIRCULAR			
PC:	319+52.78	680064.93	961146.70
PI:	323+78.16	680354.08	960834.69
PT:	327+87.09	680754.75	960691.82
RADIUS:	1735.00		
DELTA:	27°33'07" RIGHT		
D.O.C.(ARC):	3°18'08"		
LENGTH:	834.31		
TANGENT:	425.38		
TANGENT DIRECTION:	N 47°10'39" W	e = -2.0%	
CHORD DIRECTION:	N 33°24'06" W	* MDS = 55 MPH	
TANGENT DIRECTION:	N 19°37'33" W	SSD = 323'(42 MPH)	

0' 100' 200' 400'

Print Date: 12/22/2010
File Name: 16311 HA TRAF_ PH2_TCP_PH3_I-25_Geo_plan01.dgn
Horiz. Scale: 1:200 Vert. Scale: As Noted
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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

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Region 6 RLB

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I-25/SANTA FE INTERCHANGE
PHASE 3 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 69 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 671a B

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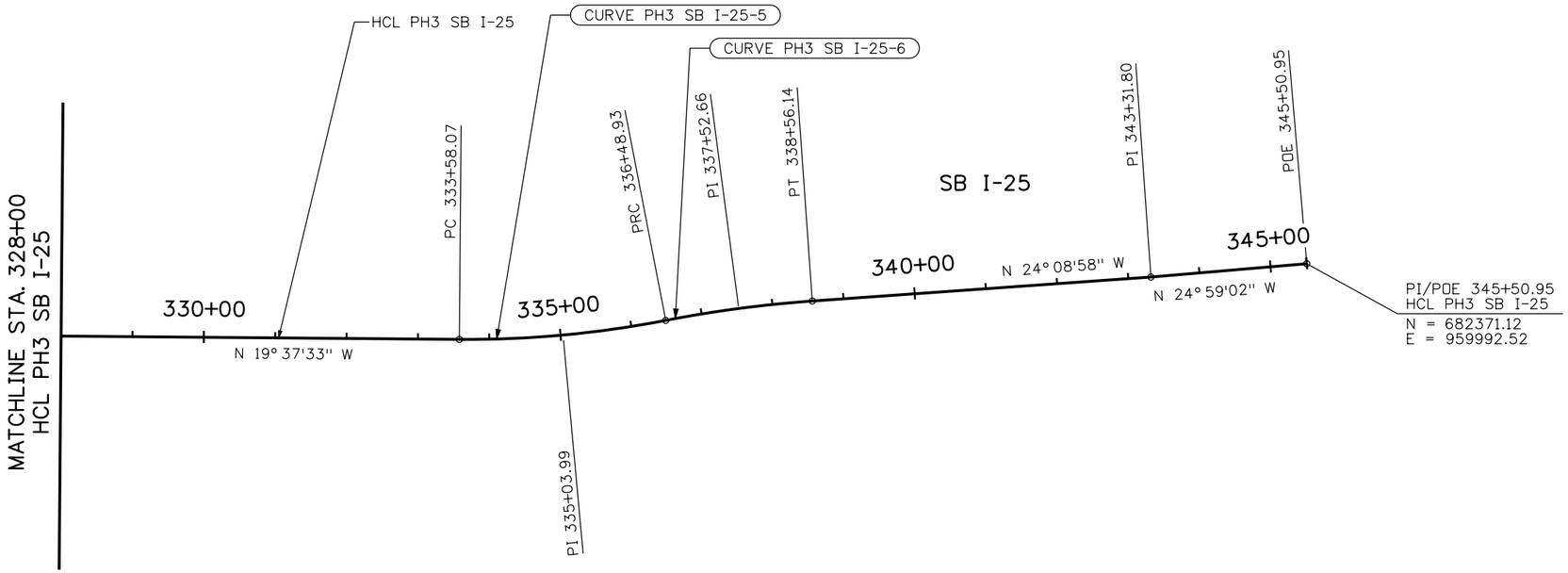


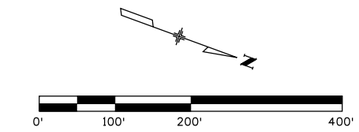
HCL PH3 SB I-25 (CONTINUED)

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	PT:	327+87.09	680754.75	960691.82
	PC:	333+58.07	681292.56	960500.04
TANGENT DIRECTION:		N 19° 37'33" W		
TANGENT LENGTH:		570.98		
CURVE PH3 SB I-25-5				
ELEMENT: CIRCULAR				
	PC:	333+58.07	681292.56	960500.04
	PI:	335+03.99	681430.00	960451.03
	PRC:	336+48.93	681554.96	960375.69
RADIUS:		1454.01		
DELTA:		11° 27'41" LEFT		
D.O.C.(ARC):		3° 56'26"		
LENGTH:		290.86		
TANGENT:		145.92		
TANGENT DIRECTION:		N 19° 37'33" W	e = -1.1%±	
CHORD DIRECTION:		N 25° 21'23" W	* MDS = 53 MPH	
TANGENT DIRECTION:		N 31° 05'14" W	SSD = 293'(38 MPH)	
CURVE PH3 SB I-25-6				
ELEMENT: CIRCULAR				
	PRC:	336+48.93	681554.96	960375.69
	PI:	337+52.66	681643.79	960322.12
	PT:	338+56.14	681738.45	960279.69
RADIUS:		1711.27		
DELTA:		6° 56'16" RIGHT		
D.O.C.(ARC):		3° 20'53"		
LENGTH:		207.21		
TANGENT:		103.73		
TANGENT DIRECTION:		N 31° 05'14" W	e = -1.9%±	
CHORD DIRECTION:		N 27° 37'06" W	* MDS = 55 MPH	
TANGENT DIRECTION:		N 24° 08'58" W	SSD = 321'(42 MPH)	

HCL PH3 SB I-25 (CONTINUED)

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	PT:	338+56.14	681738.45	960279.69
	PI:	343+31.80	682172.48	960085.09
TANGENT DIRECTION:		N 24° 08'58" W		
TANGENT LENGTH:		475.66		
ELEMENT: LINEAR				
	PI:	343+31.80	682172.48	960085.09
	POE:	345+50.95	682371.12	959992.52
TANGENT DIRECTION:		N 24° 59'02" W		
TANGENT LENGTH:		219.15		

*BASED ON DETOUR DESIGN CRITERIA.



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I-25/SANTA FE INTERCHANGE
PHASE 3 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 70 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 672a B

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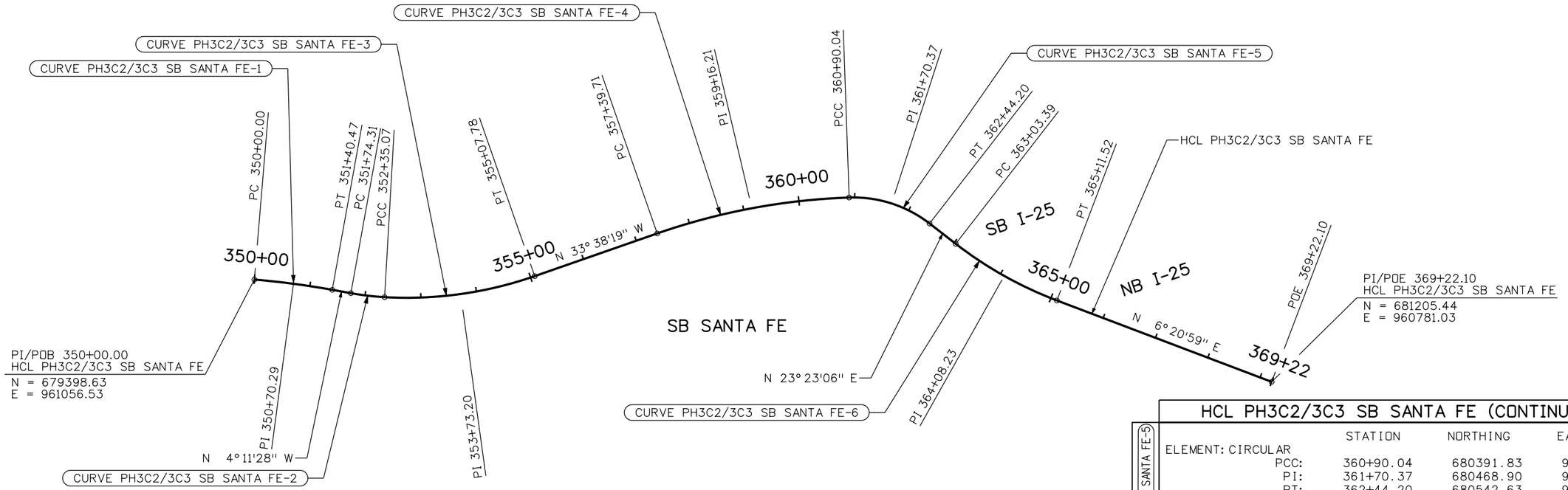

HCL PH3C2/3C3 SB SANTA FE

CURVE PH3C2/3C3 SB SANTA FE-1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	350+00.00	679398.63	961056.53
PI:	350+70.29	679467.93	961044.77
PT:	351+40.47	679538.03	961039.63
RADIUS:	1479.24		
DELTA:	5° 26'28" RIGHT		
D.O.C.(ARC):	3° 52'24"		
LENGTH:	140.47		
TANGENT:	70.29		
TANGENT DIRECTION:	N 9° 37'56" W	e = -2.0%± (EXISTING)	
CHORD DIRECTION:	N 6° 54'42" W	* MDS > 45 MPH	
TANGENT DIRECTION:	N 4° 11'28" W	SSD = 299'(39 MPH)	

ELEMENT: LINEAR

PT:	351+40.47	679538.03	961039.63
PC:	351+74.31	679571.78	961037.16
TANGENT DIRECTION:	N 4° 11'28" W		
TANGENT LENGTH:	33.83		

CURVE PH3C2/3C3 SB SANTA FE-2

ELEMENT: CIRCULAR			
PC:	351+74.31	679571.78	961037.16
PI:	352+04.73	679602.11	961034.93
PCC:	352+35.07	679631.96	961029.05
RADIUS:	500.00		
DELTA:	6° 57'46" LEFT		
D.O.C.(ARC):	11° 27'33"		
LENGTH:	60.76		
TANGENT:	30.42		
TANGENT DIRECTION:	N 4° 11'28" W	e = -2.8%±	
CHORD DIRECTION:	N 7° 40'21" W	* MDS > 25 MPH	
TANGENT DIRECTION:	N 11° 09'14" W	SSD = 167'(26 MPH)	

* BASED ON DETOUR DESIGN CRITERIA

HCL PH3C2/3C3 SB SANTA FE (CONTINUED)

CURVE PH3C2/3C3 SB SANTA FE-3

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC:	352+35.07	679631.96	961029.05
PI:	353+73.20	679767.48	961002.33
PT:	355+07.78	679882.48	960925.81
RADIUS:	694.91		
DELTA:	22° 29'05" LEFT		
D.O.C.(ARC):	8° 14'42"		
LENGTH:	272.70		
TANGENT:	138.13		
TANGENT DIRECTION:	N 11° 09'14" W	e = -2.2%±	
CHORD DIRECTION:	N 22° 23'47" W	* MDS = > 25 MPH	
TANGENT DIRECTION:	N 33° 38'19" W	SSD = 199'(30 MPH)	

ELEMENT: LINEAR

PT:	355+07.78	679882.48	960925.81
PC:	357+39.71	680075.57	960797.33
TANGENT DIRECTION:	N 33° 38'19" W		
TANGENT LENGTH:	231.94		

CURVE PH3C2/3C3 SB SANTA FE-4

ELEMENT: CIRCULAR			
PC:	357+39.71	680075.57	960797.33
PI:	359+16.21	680222.52	960699.56
PCC:	360+90.04	680391.83	960649.72
RADIUS:	1164.50		
DELTA:	17° 14'13" RIGHT		
D.O.C.(ARC):	4° 55'13"		
LENGTH:	350.33		
TANGENT:	176.50		
TANGENT DIRECTION:	N 33° 38'19" W	e = +2.0%±	
CHORD DIRECTION:	N 25° 01'13" W	* MDS > 25 MPH	
TANGENT DIRECTION:	N 16° 24'07" W	SSD = 265'(36 MPH)	

HCL PH3C2/3C3 SB SANTA FE (CONTINUED)

CURVE PH3C2/3C3 SB SANTA FE-5

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC:	360+90.04	680391.83	960649.72
PI:	361+70.37	680468.90	960627.04
PT:	362+44.20	680542.63	960658.92
RADIUS:	222.00		
DELTA:	39° 47'13" RIGHT		
D.O.C.(ARC):	25° 48'32"		
LENGTH:	154.16		
TANGENT:	80.33		
TANGENT DIRECTION:	N 16° 24'07" W	e = +1.0%±	
CHORD DIRECTION:	N 3° 29'30" E	* MDS = 27 MPH	
TANGENT DIRECTION:	N 23° 23'06" E	SSD = 117'(20 MPH)	

ELEMENT: LINEAR

PT:	362+44.20	680542.63	960658.92
PC:	363+03.39	680596.96	960682.42
TANGENT DIRECTION:	N 23° 23'06" E		
TANGENT LENGTH:	59.19		

CURVE PH3C2/3C3 SB SANTA FE-6

ELEMENT: CIRCULAR			
PC:	363+03.39	680596.96	960682.42
PI:	364+08.23	680693.19	960724.03
PT:	365+11.52	680797.38	960735.62
RADIUS:	700.00		
DELTA:	17° 02'07" LEFT		
D.O.C.(ARC):	8° 11'06"		
LENGTH:	208.13		
TANGENT:	104.84		
TANGENT DIRECTION:	N 23° 23'06" E	e = +0.9%±	
CHORD DIRECTION:	N 14° 52'03" E	* MDS > 25 MPH	
TANGENT DIRECTION:	N 6° 20'59" E	SSD = 203'(30 MPH)	

ELEMENT: LINEAR

PT:	365+11.52	680797.38	960735.62
POE:	369+22.10	681205.44	960781.03
TANGENT DIRECTION:	N 6° 20'59" E		
TANGENT LENGTH:	410.58		

0' 100' 200' 400'

Print Date: 12/22/2010
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I-25/SANTA FE INTERCHANGE
PHASE 3C2/3C3 - SANTA FE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
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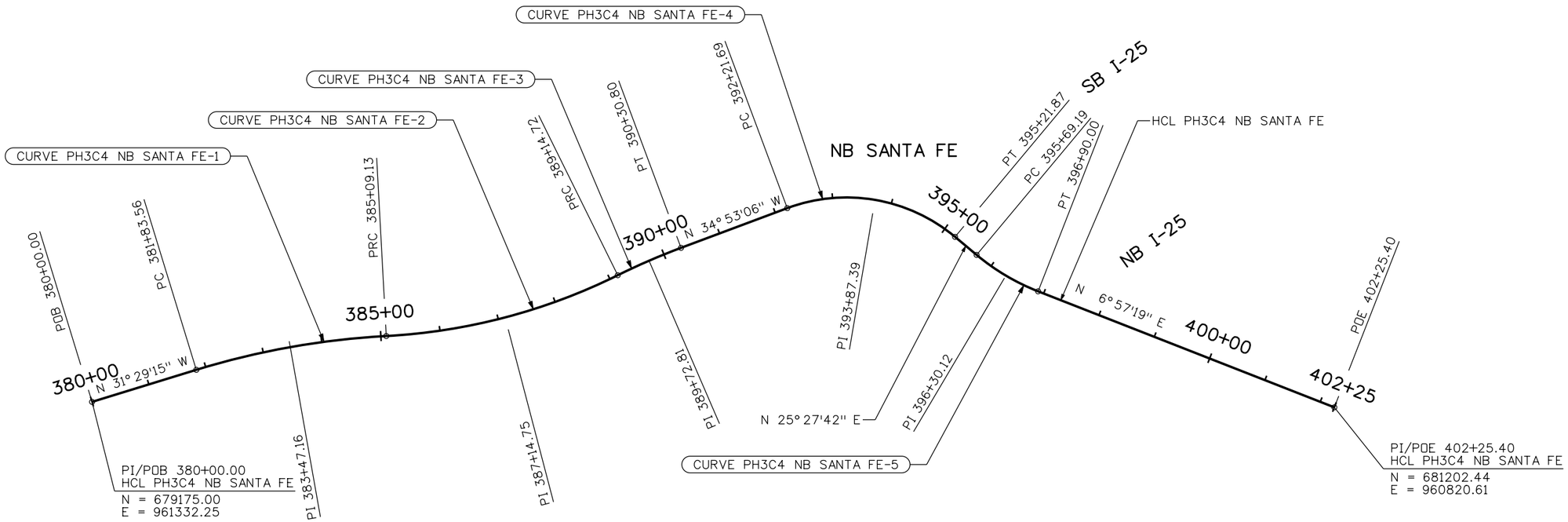

HCL PH3C4 NB SANTA FE

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	POB:	380+00.00	679175.00	961332.25
	PC:	381+83.56	679331.53	961236.38
TANGENT DIRECTION:		N 31° 29'15" W		
TANGENT LENGTH:		183.56		
(CURVE PH3C4 NB SANTA FE-1) ELEMENT: CIRCULAR				
	PC:	381+83.56	679331.53	961236.38
	PI:	383+47.16	679471.04	961150.93
	PRC:	385+09.13	679627.07	961101.73
RADIUS:		1333.69		
DELTA:		13° 59'12" RIGHT		
D.O.C.(ARC):		4° 17'46"		
LENGTH:		325.57		
TANGENT:		163.60		
TANGENT DIRECTION:		N 31° 29'15" W	e = ±2.0%±	
CHORD DIRECTION:		N 24° 29'39" W	* MDS > 25 MPH	
TANGENT DIRECTION:		N 17° 30'03" W	SSD > 200'(>30 MPH)	
(CURVE PH3C4 NB SANTA FE-2) ELEMENT: CIRCULAR				
	PRC:	385+09.13	679627.07	961101.73
	PI:	387+14.75	679823.17	961039.90
	PRC:	389+14.72	679978.97	960905.70
RADIUS:		1000.00		
DELTA:		23° 14'19" LEFT		
D.O.C.(ARC):		5° 43'46"		
LENGTH:		405.59		
TANGENT:		205.62		
TANGENT DIRECTION:		N 17° 30'03" W	e = -2.0%±	
CHORD DIRECTION:		N 29° 07'12" W	* MDS > 25 MPH	
TANGENT DIRECTION:		N 40° 44'22" W	SSD > 200'(>30 MPH)	

HCL PH3C4 NB SANTA FE (CONTINUED)

		STATION	NORTHING	EASTING
(CURVE PH3C4 NB SANTA FE-3) ELEMENT: CIRCULAR				
	PRC:	389+14.72	679978.97	960905.70
	PI:	389+72.81	680022.98	960867.79
	PT:	390+30.80	680070.63	960834.57
RADIUS:		1136.00		
DELTA:		5° 51'16" RIGHT		
D.O.C.(ARC):		5° 02'37"		
LENGTH:		116.07		
TANGENT:		58.09		
TANGENT DIRECTION:		N 40° 44'22" W	e = +2.0%±	
CHORD DIRECTION:		N 37° 48'44" W	* MDS > 25 MPH	
TANGENT DIRECTION:		N 34° 53'06" W	SSD > 200'(>30 MPH)	
ELEMENT: LINEAR				
	PT:	390+30.80	680070.63	960834.57
	PC:	392+21.69	680227.23	960725.39
TANGENT DIRECTION:		N 34° 53'06" W		
TANGENT LENGTH:		190.90		
(CURVE PH3C4 NB SANTA FE-4) ELEMENT: CIRCULAR				
	PC:	392+21.69	680227.23	960725.39
	PI:	393+87.39	680363.15	960630.63
	PT:	395+21.87	680512.75	960701.86
RADIUS:		285.00		
DELTA:		60° 20'48" RIGHT		
D.O.C.(ARC):		20° 06'14"		
LENGTH:		300.18		
TANGENT:		165.70		
TANGENT DIRECTION:		N 34° 53'06" W	e = +1.9%±	
CHORD DIRECTION:		N 4° 42'42" W	* MDS = 29 MPH	
TANGENT DIRECTION:		N 25° 27'42" E	SSD = 127'(22 MPH)	

HCL PH3C4 NB SANTA FE (CONTINUED)

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	PT:	395+21.87	680512.75	960701.86
	PC:	395+69.19	680555.48	960722.20
TANGENT DIRECTION:		N 25° 27'42" E		
TANGENT LENGTH:		47.32		
(CURVE PH3C4 NB SANTA FE-5) ELEMENT: CIRCULAR				
	PC:	395+69.19	680555.48	960722.20
	PI:	396+30.12	680610.49	960748.40
	PT:	396+90.00	680670.97	960755.78
RADIUS:		374.00		
DELTA:		18° 30'23" LEFT		
D.O.C.(ARC):		15° 19'11"		
LENGTH:		120.80		
TANGENT:		60.93		
TANGENT DIRECTION:		N 25° 27'42" E	e = -2.3%±	
CHORD DIRECTION:		N 16° 12'31" E	* MDS = 30 MPH	
TANGENT DIRECTION:		N 6° 57'19" E	SSD = 151'(25 MPH)	
ELEMENT: LINEAR				
	PT:	396+90.00	680670.97	960755.78
	POE:	402+25.40	681202.44	960820.61
TANGENT DIRECTION:		N 6° 57'19" E		
TANGENT LENGTH:		535.41		

* BASED ON DETOUR DESIGN CRITERIA

0' 100' 200' 400'

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Horiz. Scale: 1:200 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-3-11	ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 3C4 - SANTA FE
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 72 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 674a B

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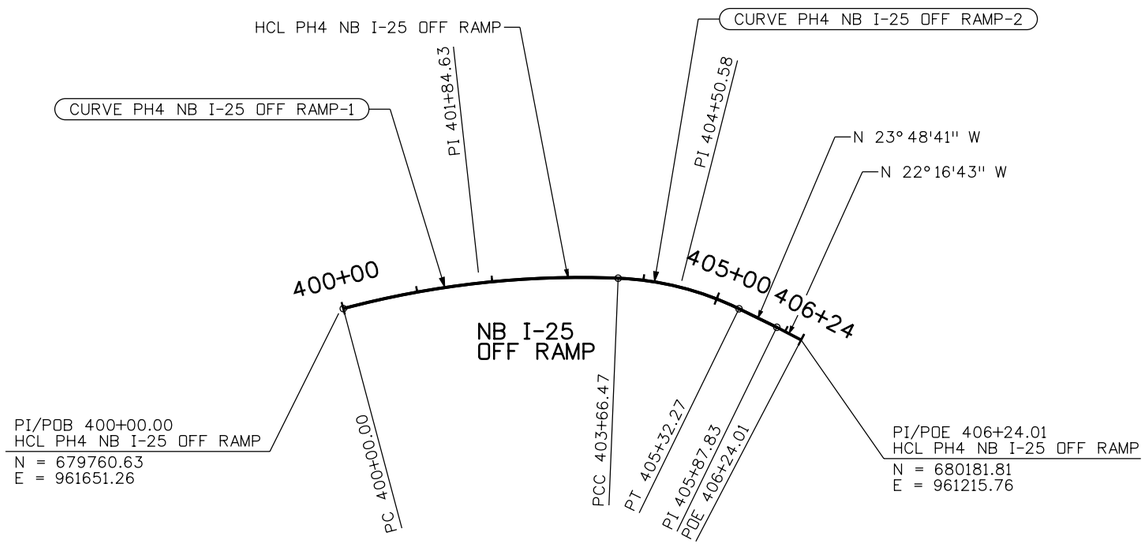
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl



HCL PH4 NB I-25 OFF RAMP

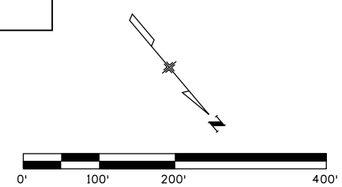
CURVE PH4 NB I-25 OFF RAMP-1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	400+00.00	679760.63	961651.26
PI:	401+84.63	679839.20	961484.18
PCC:	403+66.47	679963.80	961347.93
RADIUS:	1217.00		
DELTA:	17° 15'12" RIGHT		
D.O.C.(ARC):	4° 42'29"		
LENGTH:	366.47		
TANGENT:	184.63		
TANGENT DIRECTION:	N 64° 48'46" W		e = 2.8%±
CHORD DIRECTION:	N 56° 11'10" W		* MDS = 55 MPH
TANGENT DIRECTION:	N 47° 33'33" W		SSD = 271'(37 MPH)

CURVE PH4 NB I-25 OFF RAMP-2

ELEMENT: CIRCULAR			
PCC:	403+66.47	679963.80	961347.93
PI:	404+50.58	680020.55	961285.86
PT:	405+32.27	680097.50	961251.91
RADIUS:	400.00		
DELTA:	23° 44'53" RIGHT		
D.O.C.(ARC):	14° 19'26"		
LENGTH:	165.79		
TANGENT:	84.10		
TANGENT DIRECTION:	N 47° 33'33" W		e = -0.2%±
CHORD DIRECTION:	N 35° 41'07" W		* MDS = 32 MPH
TANGENT DIRECTION:	N 23° 48'41" W		SSD = 156'(25 MPH)
ELEMENT: LINEAR			
PT:	405+32.27	680097.50	961251.91
PI:	405+87.83	680148.33	961229.48
TANGENT DIRECTION:	N 23° 48'41" W		
TANGENT LENGTH:	55.56		
ELEMENT: LINEAR			
PI:	405+87.83	680148.33	961229.48
POE:	406+24.01	680181.81	961215.76
TANGENT DIRECTION:	N 22° 16'43" W		
TANGENT LENGTH:	36.19		

*BASED ON DETOUR DESIGN CRITERIA.



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DOT DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
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I-25/SANTA FE INTERCHANGE
PHASE 4 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 73 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 675a B

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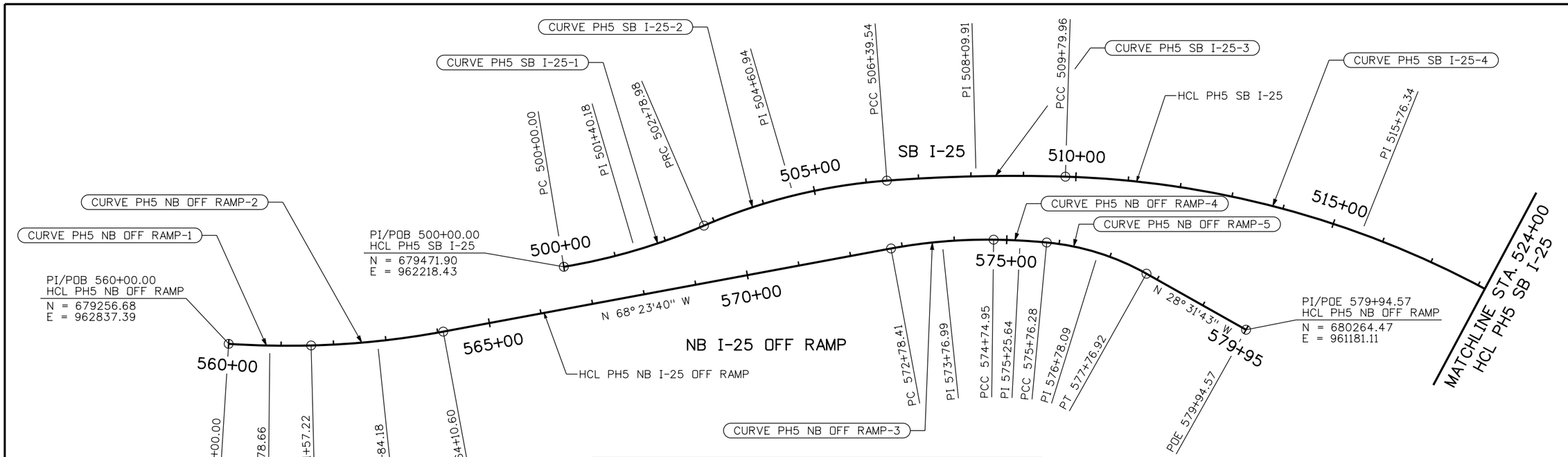
12/22/2010 CDOT-Phasing_PDF.plt CDOT-PenTablePhasing.tbl



HCL PH5 NB I-25 OFF RAMP

		STATION	NORTHING	EASTING
(CURVE PH5 NB OFF RAMP-1)	ELEMENT: CIRCULAR			
	PC:	560+00.00	679256.68	962837.39
	PI:	560+78.66	679302.63	962773.55
	PCC:	561+57.22	679342.76	962705.90
	RADIUS:	1778.14		
	DELTA:	5°03'57" LEFT		
	D.O.C.(ARC):	3°13'20"		
	LENGTH:	157.22		
	TANGENT:	78.66		
	TANGENT DIRECTION:	N 54°15'18" W		e = -0.6%±
	CHORD DIRECTION:	N 56°47'17" W		* MDS > 55 MPH
	TANGENT DIRECTION:	N 59°19'15" W		SSD = EXISTING CONDITION
(CURVE PH5 NB OFF RAMP-2)	ELEMENT: CIRCULAR			
	PCC:	561+57.22	679342.76	962705.90
	PI:	562+84.18	679407.54	962596.71
	PT:	564+10.60	679454.29	962478.68
	RADIUS:	1600.00		
	DELTA:	9°04'25" LEFT		
	D.O.C.(ARC):	3°34'52"		
	LENGTH:	253.38		
	TANGENT:	126.96		
	TANGENT DIRECTION:	N 59°19'15" W		e = -0.6%±
	CHORD DIRECTION:	N 63°51'28" W		* MDS = 55 MPH
	TANGENT DIRECTION:	N 68°23'40" W		SSD = EXISTING CONDITION

HCL PH5 NB I-25 OFF RAMP (CONTINUED)

		STATION	NORTHING	EASTING
	ELEMENT: LINEAR			
	PT:	564+10.60	679454.29	962478.68
	PC:	572+78.41	679773.83	961671.84
	TANGENT DIRECTION:	N 68°23'40" W		
	TANGENT LENGTH:	867.81		
(CURVE PH5 NB OFF RAMP-3)	ELEMENT: CIRCULAR			
	PC:	572+78.41	679773.83	961671.84
	PI:	573+76.99	679810.13	961580.18
	PCC:	574+74.95	679863.54	961497.33
	RADIUS:	1005.00		
	DELTA:	11°12'17" RIGHT		
	D.O.C.(ARC):	5°42'04"		
	LENGTH:	196.54		
	TANGENT:	98.58		
	TANGENT DIRECTION:	N 68°23'40" W		e = 4.2%±
	CHORD DIRECTION:	N 62°47'32" W		* MDS = 52 MPH
	TANGENT DIRECTION:	N 57°11'23" W		SSD = 246'(34 MPH)
(CURVE PH5 NB OFF RAMP-4)	ELEMENT: CIRCULAR			
	PCC:	574+74.95	679863.54	961497.33
	PI:	575+25.64	679891.02	961454.72
	PCC:	575+76.28	679921.86	961414.48
	RADIUS:	1245.25		
	DELTA:	4°39'46" RIGHT		
	D.O.C.(ARC):	4°36'04"		
	LENGTH:	101.34		
	TANGENT:	50.70		
	TANGENT DIRECTION:	N 57°11'23" W		e = 5.8%±
	CHORD DIRECTION:	N 54°51'30" W		* MDS > 55 MPH
	TANGENT DIRECTION:	N 52°31'37" W		SSD = 274'(37 MPH)

HCL PH5 NB I-25 OFF RAMP (CONTINUED)

		STATION	NORTHING	EASTING
(CURVE PH5 NB OFF RAMP-5)	ELEMENT: CIRCULAR			
	PCC:	575+76.28	679921.86	961414.48
	PI:	576+78.09	679983.80	961333.68
	PT:	577+76.92	680073.25	961285.06
	RADIUS:	479.01		
	DELTA:	23°59'54" RIGHT		
	D.O.C.(ARC):	11°57'41"		
	LENGTH:	200.63		
	TANGENT:	101.81		
	TANGENT DIRECTION:	N 52°31'37" W		e = 1.2%±
	CHORD DIRECTION:	N 40°31'40" W		* MDS = 35 MPH
	TANGENT DIRECTION:	N 28°31'43" W		SSD = 171'(27 MPH)
	ELEMENT: LINEAR			
	PT:	577+76.92	680073.25	961285.06
	POE:	579+94.57	680264.47	961181.11
	TANGENT DIRECTION:	N 28°31'43" W		
	TANGENT LENGTH:	217.65		

*BASED ON DETOUR DESIGN CRITERIA.

0' 100' 200' 400'

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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

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2000 South Holly Street
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Region 6 RLB

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 5 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 74 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 676a B

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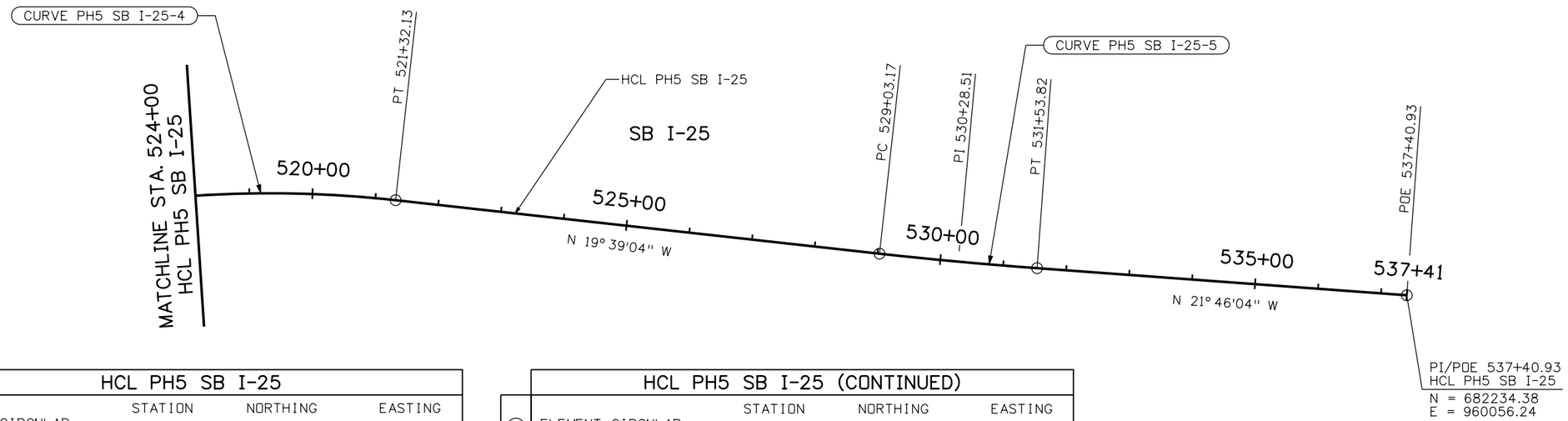


HCL PH5 SB I-25

CURVE PH5 SB I-25-1

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	500+00.00	679471.90	962218.43
PI:	501+40.18	679526.05	962089.13
PRC:	502+78.98	679547.48	961950.59
RADIUS:	1147.77		
DELTA:	13° 55'35" LEFT		
D.O.C.(ARC):	4° 59'31"		
LENGTH:	278.98		
TANGENT:	140.18		
TANGENT DIRECTION:	N 67° 16'48" W	e = -2.0%±	
CHORD DIRECTION:	N 74° 14'35" W	* MDS = 47 MPH	
TANGENT DIRECTION:	N 81° 12'23" W	SSD = 259'(36 MPH)	

CURVE PH5 SB I-25-2

ELEMENT: CIRCULAR			
PRC:	502+78.98	679547.48	961950.59
PI:	504+60.94	679575.29	961770.78
PCC:	506+39.54	679660.22	961609.86
RADIUS:	1085.56		
DELTA:	19° 01'48" RIGHT		
D.O.C.(ARC):	5° 16'41"		
LENGTH:	360.56		
TANGENT:	181.95		
TANGENT DIRECTION:	N 81° 12'23" W	e = +1.5%±	
CHORD DIRECTION:	N 71° 41'29" W	* MDS = 50 MPH	
TANGENT DIRECTION:	N 62° 10'35" W	SSD = 256'(36 MPH)	

CURVE PH5 SB I-25-3

ELEMENT: CIRCULAR			
PCC:	506+39.54	679660.22	961609.86
PI:	508+09.91	679739.74	961459.19
PCC:	509+79.96	679834.65	961317.71
RADIUS:	3232.95		
DELTA:	6° 01'59" RIGHT		
D.O.C.(ARC):	1° 46'20"		
LENGTH:	340.42		
TANGENT:	170.37		
TANGENT DIRECTION:	N 62° 10'35" W	e = +3.9%±	
CHORD DIRECTION:	N 59° 09'35" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 56° 08'36" W	SSD = 441'(51 MPH)	

HCL PH5 SB I-25 (CONTINUED)

CURVE PH5 SB I-25-4

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC:	509+79.96	679834.65	961317.71
PI:	515+76.34	680166.91	960822.45
PT:	521+32.13	680728.56	960621.89
RADIUS:	1809.00		
DELTA:	36° 29'32" RIGHT		
D.O.C.(ARC):	3° 10'02"		
LENGTH:	1152.17		
TANGENT:	596.38		
TANGENT DIRECTION:	N 56° 08'36" W	e = 0%±	
CHORD DIRECTION:	N 37° 53'50" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 19° 39'04" W	SSD = 330'(43 MPH)	

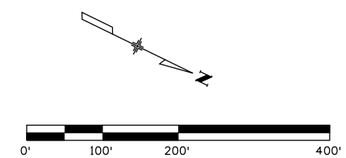
ELEMENT: LINEAR			
PT:	521+32.13	680728.56	960621.89
PC:	529+03.17	681454.69	960362.60
TANGENT DIRECTION:	N 19° 39'04" W		
TANGENT LENGTH:	771.04		

CURVE PH5 SB I-25-5

ELEMENT: CIRCULAR			
PC:	529+03.17	681454.69	960362.60
PI:	530+28.51	681572.73	960320.45
PT:	531+53.82	681689.13	960273.97
RADIUS:	6785.00		
DELTA:	2° 07'00" LEFT		
D.O.C.(ARC):	0° 50'40"		
LENGTH:	250.65		
TANGENT:	125.34		
TANGENT DIRECTION:	N 19° 39'04" W	e = +2.0%±	
CHORD DIRECTION:	N 20° 42'34" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 21° 46'04" W	SSD = 637'(>55 MPH)	

ELEMENT: LINEAR			
PT:	531+53.82	681689.13	960273.97
POE:	537+40.93	682234.38	960056.24
TANGENT DIRECTION:	N 21° 46'04" W		
TANGENT LENGTH:	587.11		

* BASED ON DETOUR DESIGN CRITERIA



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File Name: 16311 HA TRAF_ PH2_TCP_PH5_I-25_Geo_plan02.dgn
Horiz. Scale: 1:200 Vert. Scale: As Noted
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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

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I-25/SANTA FE INTERCHANGE
PHASE 5 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 75 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 677a B

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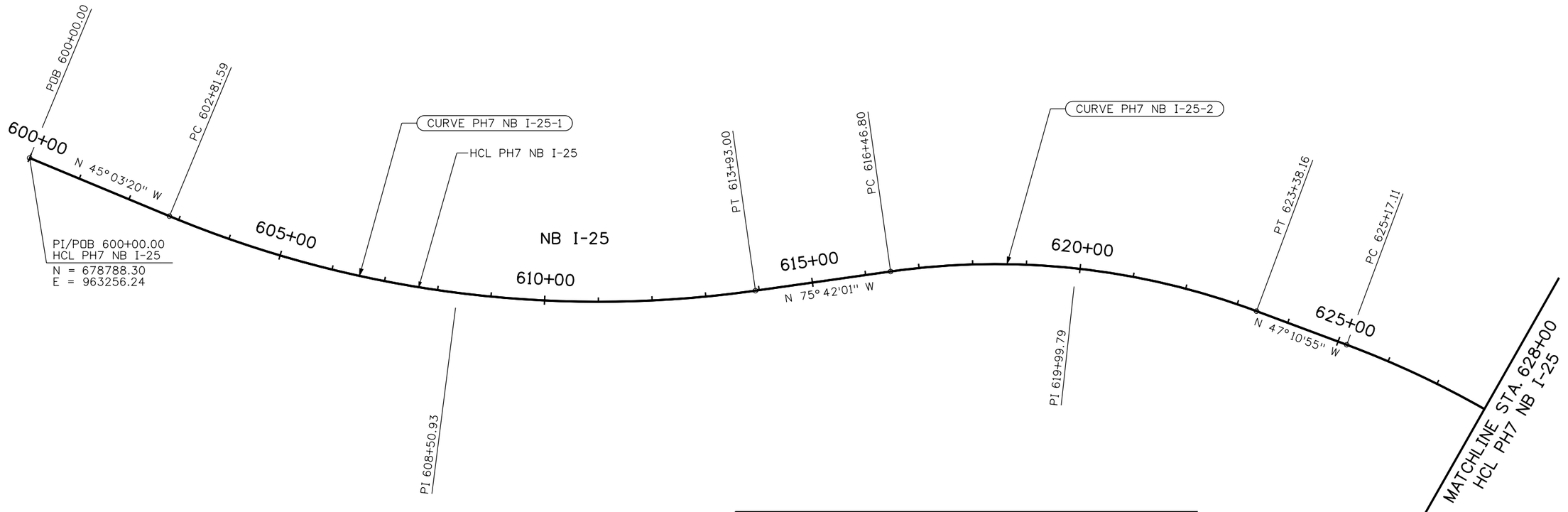

HCL PH7 NB I-25

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	POB:	600+00.00	678788.30	963256.24
	PC:	602+81.59	678987.22	963056.94
TANGENT DIRECTION:		N 45°03'20" W		
TANGENT LENGTH:		281.59		
CURVE PH7 NB I-25-1				
ELEMENT: CIRCULAR				
	PC:	602+81.59	678987.22	963056.94
	PI:	608+50.93	679389.42	962653.96
	PT:	613+93.00	679530.04	962102.25
	RADIUS:	2078.00		
	DELTA:	30°38'41" LEFT		
	D.O.C.(ARC):	2°45'26"		
	LENGTH:	1111.42		
	TANGENT:	569.35		
TANGENT DIRECTION:		N 45°03'20" W	e = -1.9%±	
CHORD DIRECTION:		N 60°22'40" W	* MDS = 58 MPH	
TANGENT DIRECTION:		N 75°42'01" W	SSD = 354'(44 MPH)	

HCL PH7 NB I-25 (CONTINUED)

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	PT:	613+93.00	679530.04	962102.25
	PC:	616+46.80	679592.73	961856.32
TANGENT DIRECTION:		N 75°42'01" W		
TANGENT LENGTH:		253.80		
CURVE PH7 NB I-25-2				
ELEMENT: CIRCULAR				
	PC:	616+46.80	679592.73	961856.32
	PI:	619+99.79	679679.92	961514.26
	PT:	623+38.16	679919.84	961255.33
	RADIUS:	1389.00		
	DELTA:	28°31'06" RIGHT		
	D.O.C.(ARC):	4°07'30"		
	LENGTH:	691.36		
	TANGENT:	353.00		
TANGENT DIRECTION:		N 75°42'01" W	e = +2.0%±	
CHORD DIRECTION:		N 61°26'28" W	* MDS = 50 MPH	
TANGENT DIRECTION:		N 47°10'55" W	SSD = 286'(38 MPH)	
ELEMENT: LINEAR				
	PT:	623+38.16	679919.84	961255.33
	PC:	625+17.11	680041.47	961124.07
TANGENT DIRECTION:		N 47°10'55" W		
TANGENT LENGTH:		178.96		

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I-25/SANTA FE INTERCHANGE
PHASE 7 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 76 of 79

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BR 0252-407
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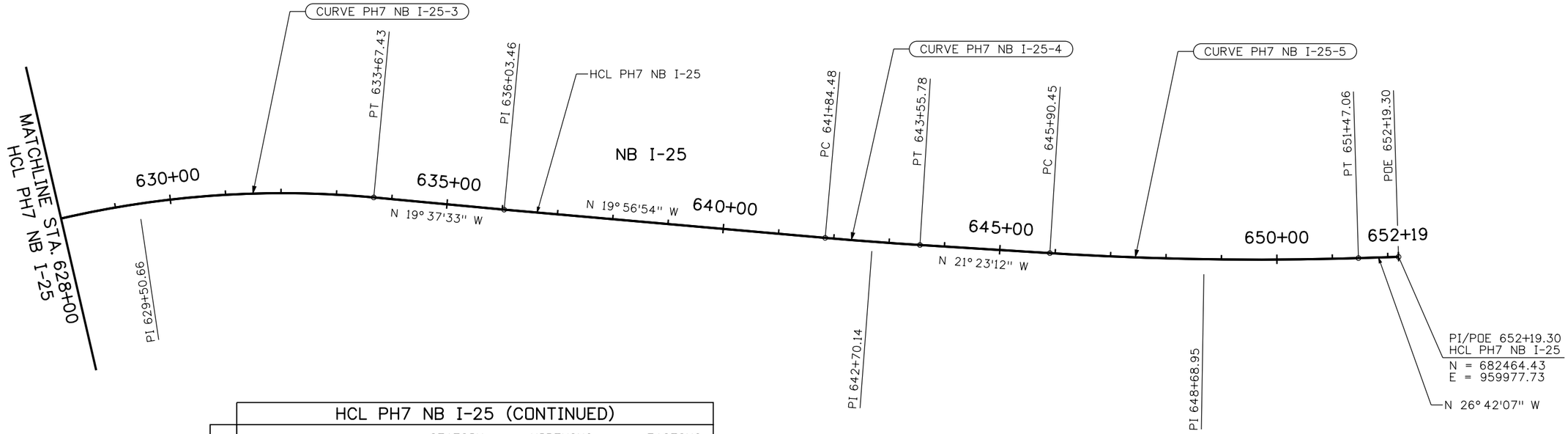

HCL PH7 NB I-25 (CONTINUED)

CURVE PH7 NB I-25-3

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC:	625+17.11	680041.47	961124.07
PI:	629+50.66	680336.14	960806.05
PT:	633+67.43	680744.50	960660.44
RADIUS:	1768.00		
DELTA:	27° 33'22" RIGHT		
D.O.C.(ARC):	3° 14'27"		
LENGTH:	850.31		
TANGENT:	433.55		
TANGENT DIRECTION:	N 47° 10'55" W	e = +2.0%±	
CHORD DIRECTION:	N 33° 24'14" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 19° 37'33" W	SSD = 323'(42 MPH)	

ELEMENT: LINEAR			
PT:	633+67.43	680744.50	960660.44
PI:	636+03.46	680966.82	960581.16
TANGENT DIRECTION:	N 19° 37'33" W		
TANGENT LENGTH:	236.04		

ELEMENT: LINEAR			
PI:	636+03.46	680966.82	960581.16
PC:	641+84.48	681512.98	960382.93
TANGENT DIRECTION:	N 19° 56'54" W		
TANGENT LENGTH:	581.02		

CURVE PH7 NB I-25-4

ELEMENT: CIRCULAR			
PC:	641+84.48	681512.98	960382.93
PI:	642+70.14	681593.50	960353.70
PT:	643+55.78	681673.26	960322.47
RADIUS:	6824.00		
DELTA:	1° 26'18" LEFT		
D.O.C.(ARC):	0° 50'23"		
LENGTH:	171.30		
TANGENT:	85.66		
TANGENT DIRECTION:	N 19° 56'54" W	e = +1.7%±	
CHORD DIRECTION:	N 20° 40'03" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 21° 23'12" W	SSD = 495'(>55 MPH)	

HCL PH7 NB I-25 (CONTINUED)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT:	643+55.78	681673.26	960322.47
PC:	645+90.45	681891.76	960236.90
TANGENT DIRECTION:	N 21° 23'12" W		
TANGENT LENGTH:	234.66		

CURVE PH7 NB I-25-5

ELEMENT: CIRCULAR			
PC:	645+90.45	681891.76	960236.90
PI:	648+68.95	682151.09	960135.34
PT:	651+47.06	682399.90	960010.19
RADIUS:	6000.00		
DELTA:	5° 18'55" LEFT		
D.O.C.(ARC):	0° 57'18"		
LENGTH:	556.61		
TANGENT:	278.51		
TANGENT DIRECTION:	N 21° 23'12" W	e = -2.0%±	
CHORD DIRECTION:	N 24° 02'40" W	* MDS > 55 MPH	
TANGENT DIRECTION:	N 26° 42'07" W	SSD = 495'(>55 MPH)	

ELEMENT: LINEAR			
PT:	651+47.06	682399.90	960010.19
POE:	652+19.30	682464.43	959977.73
TANGENT DIRECTION:	N 26° 42'07" W		
TANGENT LENGTH:	72.24		

0' 100' 200' 400'

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Unit Information Unit Leader Initials

FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

R-2

Sheet Revisions

Date:	Comments	Init.
1-3-11	ISSUED SHEET	MLH

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
PHASE 7 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 77 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 679a B

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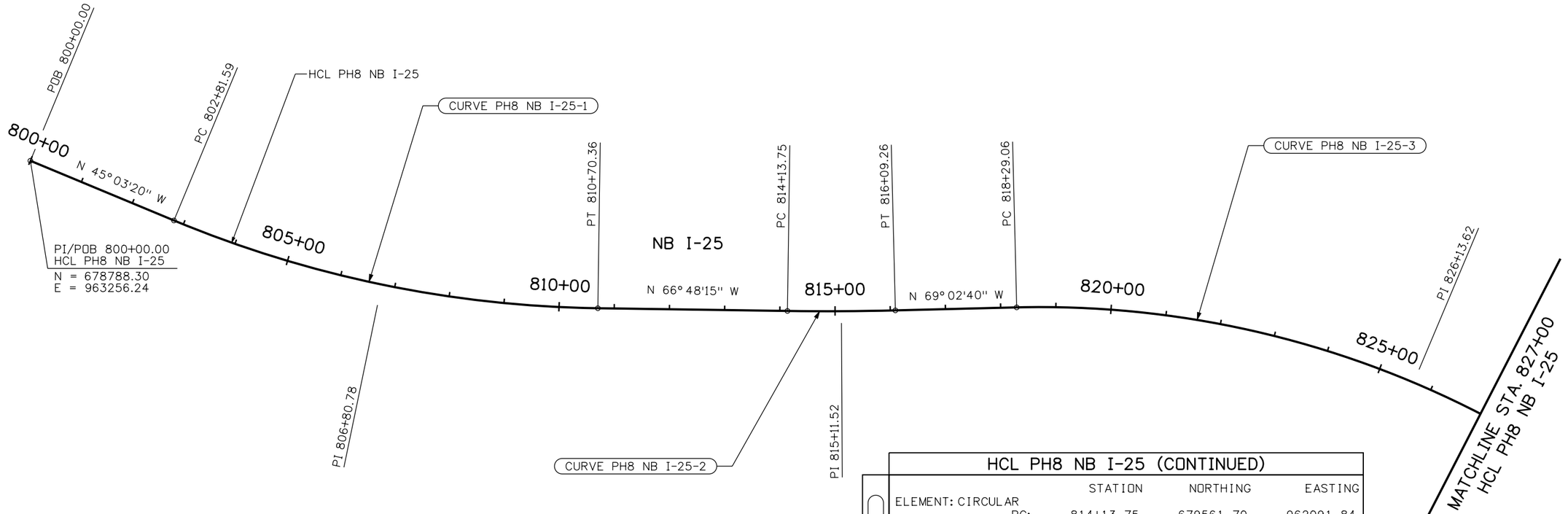


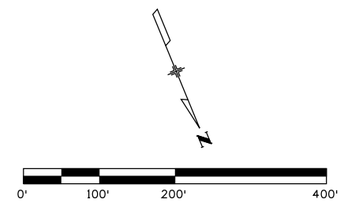
HCL PH8 NB I-25

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	POB:	800+00.00	678788.30	963256.24
	PC:	802+81.59	678987.22	963056.94
TANGENT DIRECTION:		N 45°03'20" W		
TANGENT LENGTH:		281.59		
CURVE PH8 NB I-25-1				
ELEMENT: CIRCULAR				
	PC:	802+81.59	678987.22	963056.94
	PI:	806+80.78	679269.22	962774.39
	PT:	810+70.36	679426.45	962407.47
	RADIUS:	2078.00		
	DELTA:	21°44'55" LEFT		
	D.O.C.(ARC):	2°45'26"		
	LENGTH:	788.78		
	TANGENT:	399.19		e = -1.9%±
TANGENT DIRECTION:		N 45°03'20" W		* MDS = 59 MPH
CHORD DIRECTION:		N 55°55'48" W		SSD = EXISTING
TANGENT DIRECTION:		N 66°48'15" W		COND. (484'±)
ELEMENT: LINEAR				
	PT:	810+70.36	679426.45	962407.47
	PC:	814+13.75	679561.70	962091.84
TANGENT DIRECTION:		N 66°48'15" W		
TANGENT LENGTH:		343.39		

* BASED ON DETOUR DESIGN CRITERIA

HCL PH8 NB I-25 (CONTINUED)

		STATION	NORTHING	EASTING
CURVE PH8 NB I-25-2				
ELEMENT: CIRCULAR				
	PC:	814+13.75	679561.70	962091.84
	PI:	815+11.52	679600.21	962001.97
	PT:	816+09.26	679635.17	961910.68
	RADIUS:	5000.00		
	DELTA:	2°14'25" LEFT		
	D.O.C.(ARC):	1°08'45"		
	LENGTH:	195.50		
	TANGENT:	97.76		e = -2.0%±
TANGENT DIRECTION:		N 66°48'15" W		
CHORD DIRECTION:		N 67°55'27" W		* MDS > 55 MPH
TANGENT DIRECTION:		N 69°02'40" W		SSD = 548'(59 MPH)
ELEMENT: LINEAR				
	PT:	816+09.26	679635.17	961910.68
	PC:	818+29.06	679713.79	961705.41
TANGENT DIRECTION:		N 69°02'40" W		
TANGENT LENGTH:		219.81		
CURVE PH8 NB I-25-3				
ELEMENT: CIRCULAR				
	PC:	818+29.06	679713.79	961705.41
	PI:	826+13.62	679994.38	960972.74
	PT:	833+03.18	680729.23	960697.94
	RADIUS:	1740.00		
	DELTA:	48°32'26" RIGHT		
	D.O.C.(ARC):	3°17'34"		
	LENGTH:	1474.12		
	TANGENT:	784.56		e = -1.1%±
TANGENT DIRECTION:		N 69°02'40" W		
CHORD DIRECTION:		N 44°46'27" W		* MDS = 57 MPH
TANGENT DIRECTION:		N 20°30'14" W		SSD = 321'(41 MPH)



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Region 6 RLB

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Void:

I-25/SANTA FE INTERCHANGE
PHASE 8 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers:
Subset Sheets: 78 of 79

Project No./Code
BR 0252-407
17783
Sheet Number 680a B

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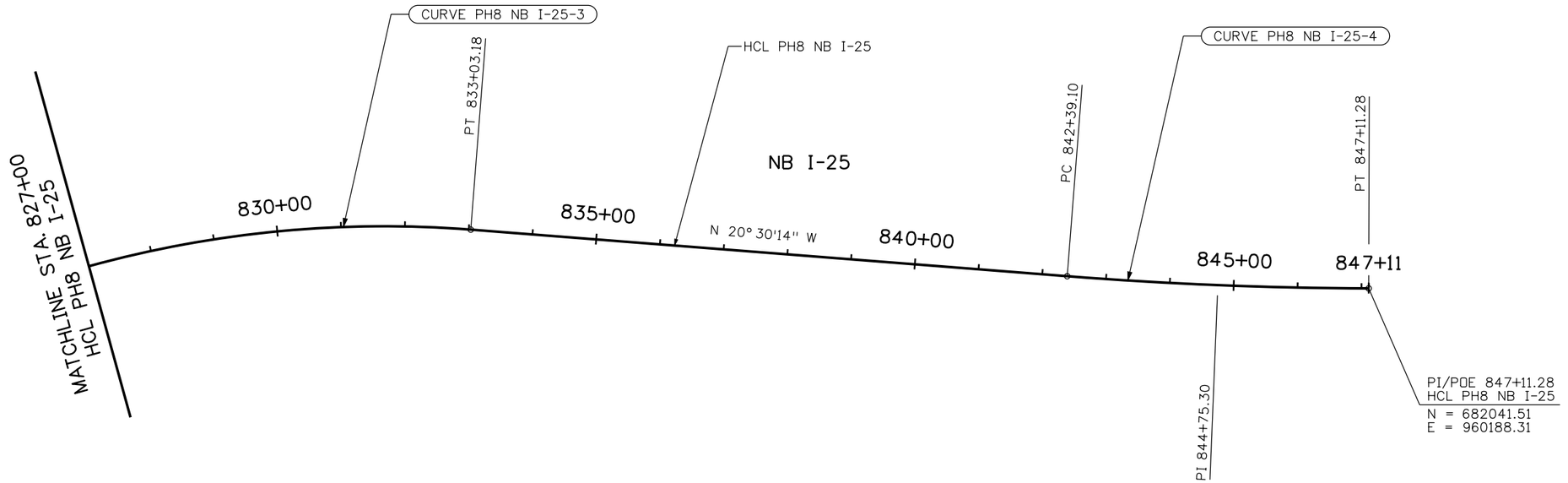

HCL PH8 NB I-25 (CONTINUED)

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
	PT:	833+03.18	680729.23	960697.94
	PC:	842+39.10	681605.86	960370.11
TANGENT DIRECTION:		N 20° 30'14" W		
TANGENT LENGTH:		935.92		
(CURVE PH8 NB I-25-4) ELEMENT: CIRCULAR				
	PC:	842+39.10	681605.86	960370.11
	PI:	844+75.30	681827.09	960287.38
	PT:	847+11.28	682041.51	960188.31
	RADIUS:	6300.00		
	DELTA:	4° 17'39" LEFT		
	D.O.C.(ARC):	0° 54'34"		
	LENGTH:	472.17		
	TANGENT:	236.20		
TANGENT DIRECTION:		N 20° 30'14" W	e = +1.2%	
CHORD DIRECTION:		N 22° 39'03" W	* MDS > 55 MPH	
TANGENT DIRECTION:		N 24° 47'53" W	SSD > 495'(55 MPH)	

* BASED ON DETOUR DESIGN CRITERIA

0' 100' 200' 400'

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I-25/SANTA FE INTERCHANGE
PHASE 8 - I-25
TCP GEOMETRIC LAYOUT

Designer: M. HARTWIG
Detailer: K. ROTH
Sheet Subset: TCP
Structure Numbers
Subset Sheets: 79 of 79

Project No./Code
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17783
Sheet Number 681a B

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