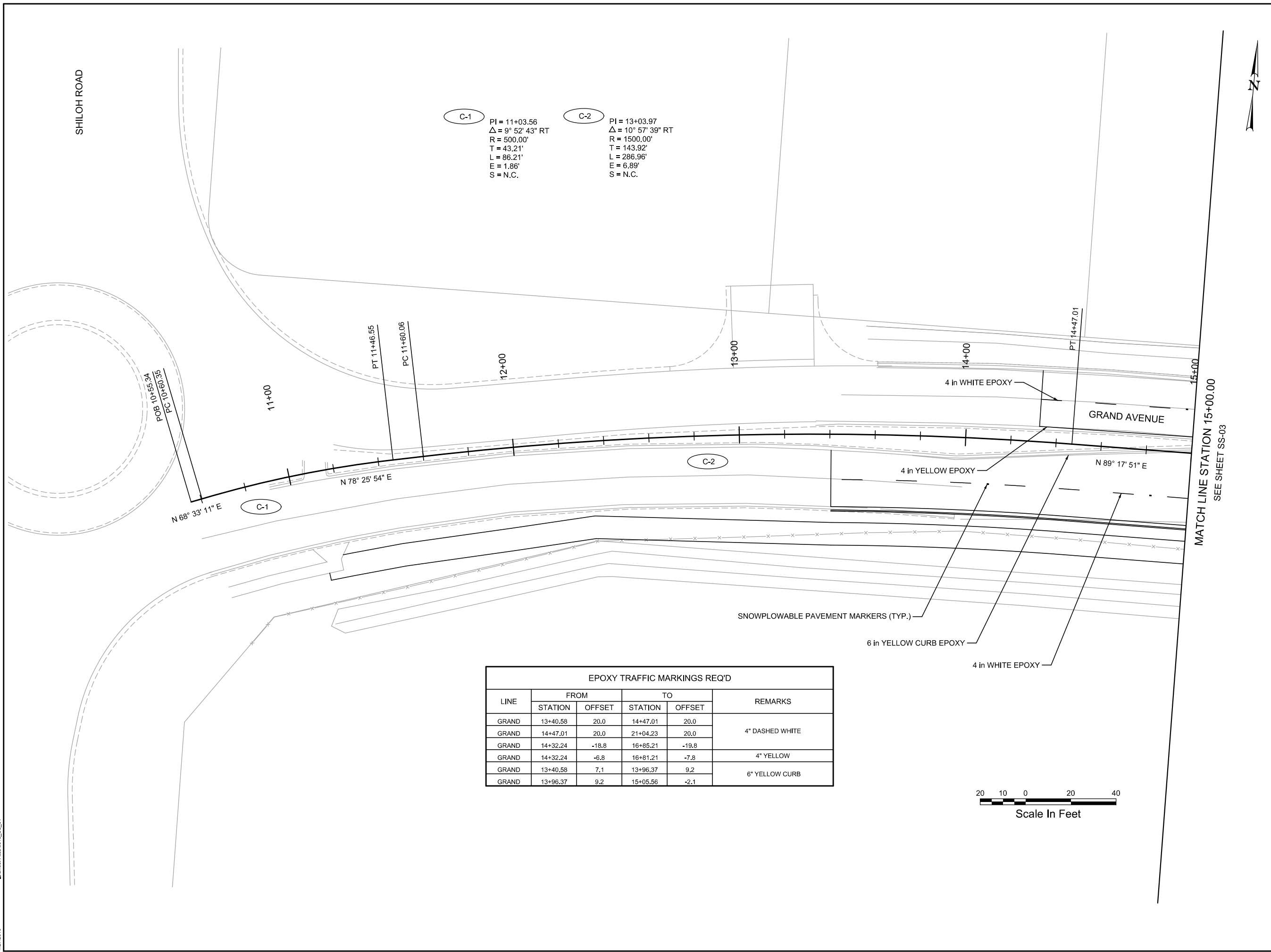


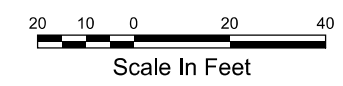
1/27/2016
 ..\Sheet Files\0915_SS_01



C-1
 PI = 11+03.56
 $\Delta = 9^\circ 52' 43''$ RT
 R = 500.00'
 T = 43.21'
 L = 86.21'
 E = 1.86'
 S = N.C.

C-2
 PI = 13+03.97
 $\Delta = 10^\circ 57' 39''$ RT
 R = 1500.00'
 T = 143.92'
 L = 286.96'
 E = 6.89'
 S = N.C.

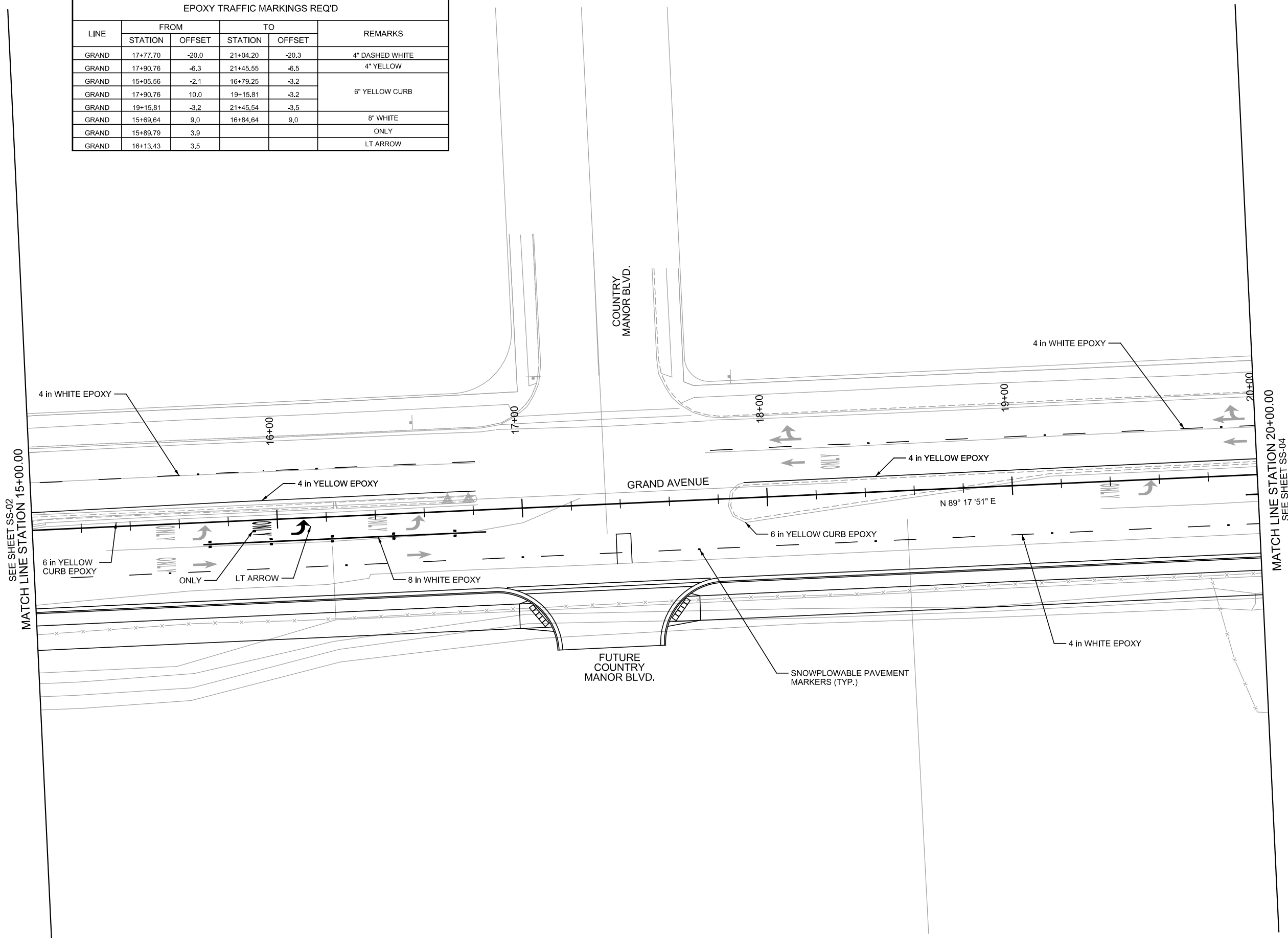
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	13+40.58	20.0	14+47.01	20.0	4" DASHED WHITE
GRAND	14+47.01	20.0	21+04.23	20.0	
GRAND	14+32.24	-18.8	16+85.21	-19.8	
GRAND	14+32.24	-6.8	16+81.21	-7.8	4" YELLOW
GRAND	13+40.58	7.1	13+96.37	9.2	6" YELLOW CURB
GRAND	13+96.37	9.2	15+05.56	-2.1	



PROJECT NUMBER		CITY OF BILLINGS W.O. 09-15	
PROJECT		GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE	
ISSUE DATE	DESIGNED BY	RCL	TEO
1/28/2016			
NO.	1	DATE	1/28/2016
REVISIONS			
<p>1/27/2016</p>			

SHEET NO. **SS-02**

EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	17+77.70	-20.0	21+04.20	-20.3	4" DASHED WHITE
GRAND	17+90.76	-6.3	21+45.55	-6.5	4" YELLOW
GRAND	15+05.56	-2.1	16+79.25	-3.2	6" YELLOW CURB
GRAND	17+90.76	10.0	19+15.81	-3.2	
GRAND	19+15.81	-3.2	21+45.54	-3.5	8" WHITE
GRAND	15+69.64	9.0	16+84.64	9.0	
GRAND	15+89.79	3.9			ONLY
GRAND	16+13.43	3.5			LT ARROW

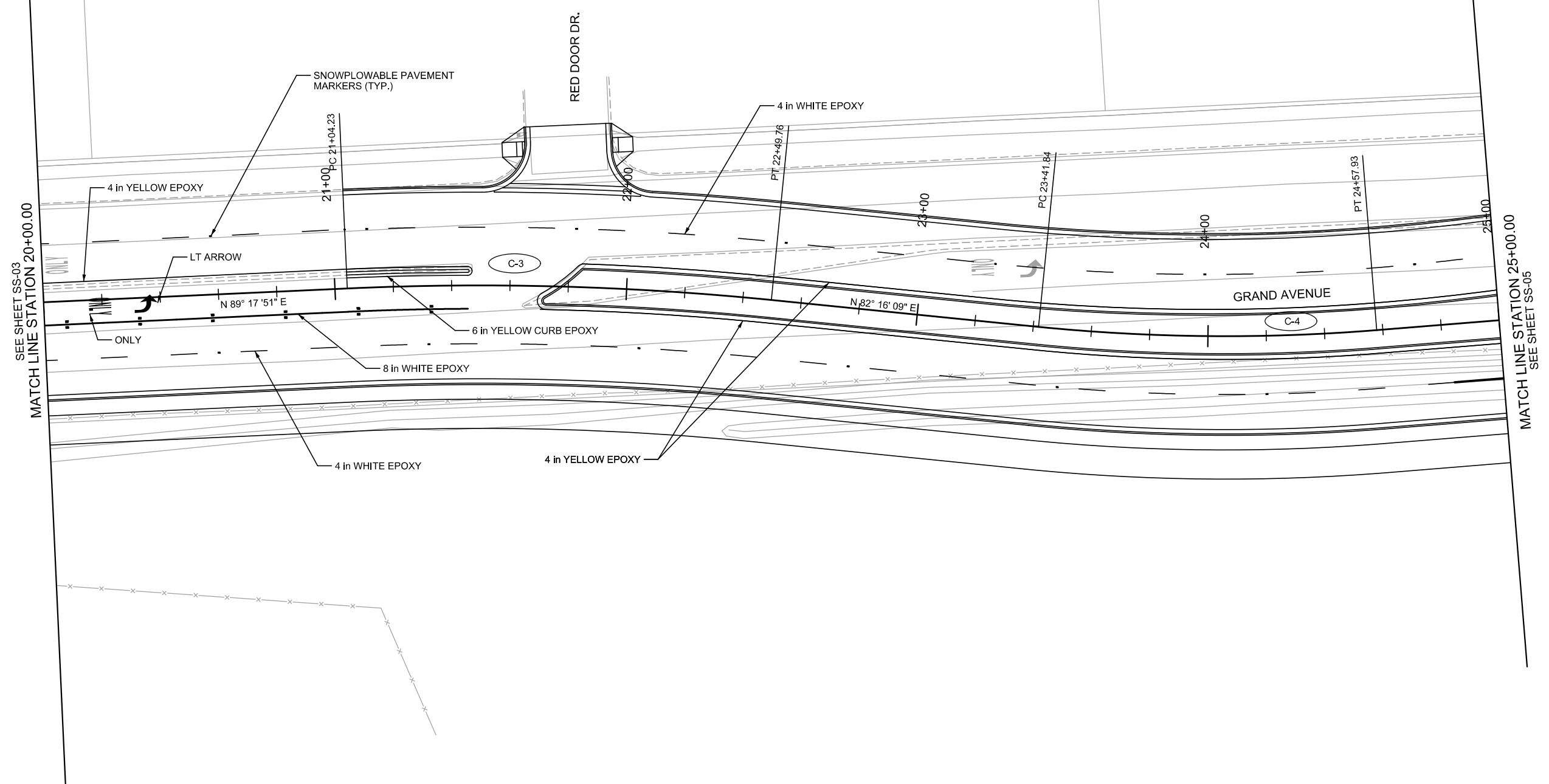


PROJECT NUMBER		CITY OF BILLINGS W.O. 09-15	
PROJECT		GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE	
ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY
	RCL		TEO
REVISIONS		NO.	DATE
		1	1/28/2016
		ISSUE FOR BID	REMARKS
SHEET NO.		SS-03	

LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	21+04.23	20.0	22+49.76	20.0	4" DASHED WHITE
GRAND	22+49.76	20.0	23+41.84	20.0	
GRAND	23+41.84	20.0	24+57.93	20.0	
GRAND	24+57.93	20.0	24+83.14	20.0	
GRAND	21+04.20	-20.0	23+24.69	-20.0	
GRAND	23+24.69	-20.3	25+03.14	-22.6	4" YELLOW
GRAND	21+68.56	8.0	22+49.76	8.0	
GRAND	22+49.76	8.0	23+41.84	8.0	
GRAND	23+41.84	8.0	24+57.93	8.0	
GRAND	24+57.93	8.0	25+20.55	8.0	
GRAND	21+84.36	-8.0	22+49.76	-8.0	8" WHITE LT ARROW ONLY
GRAND	22+49.76	-8.0	23+24.69	-8.0	
GRAND	23+24.69	-8.0	25+03.84	-10.6	
GRAND	19+95.21	8.0	21+45.54	8.0	
GRAND	20+39.07	1.8			
GRAND	20+15.48	4.8			

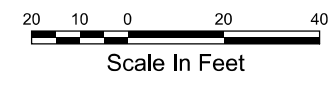
C-3
 PI = 21+77.12
 $\Delta = 8^\circ 20' 18''$ RT
 R = 1000.00'
 T = 72.89'
 L = 145.53'
 E = 2.65'
 S = N.C.

C-4
 PI = 24+00.04
 $\Delta = 10^\circ 21' 11''$ LT
 R = 642.50'
 T = 58.21'
 L = 116.10'
 E = 2.63'
 S = N.C.

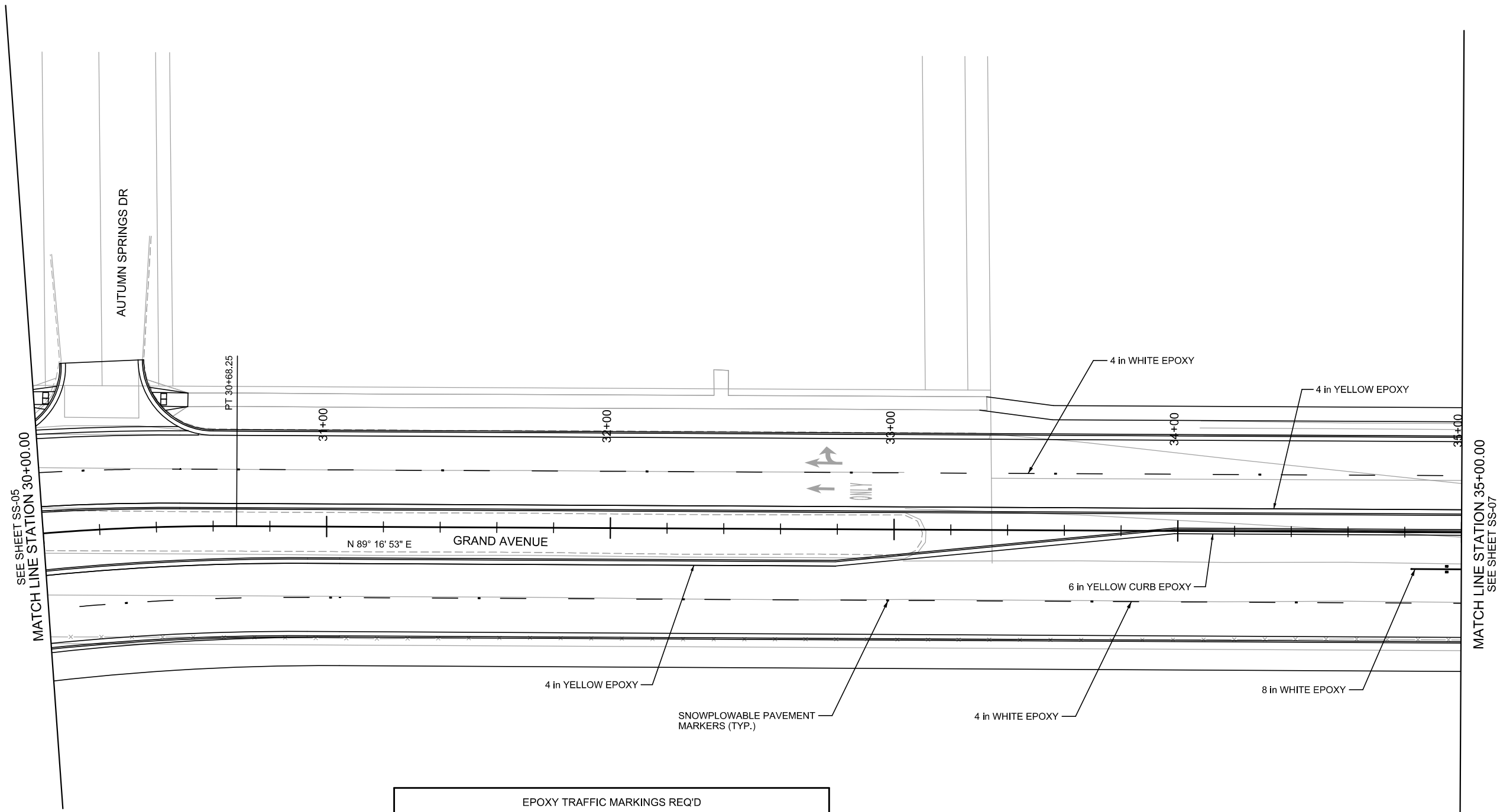


SEE SHEET SS-03
 MATCH LINE STATION 20+00.00

MATCH LINE STATION 25+00.00
 SEE SHEET SS-05



PROJECT NUMBER		CITY OF BILLINGS W.O. 09-15	
PROJECT		GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE	
ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY
	RCL		TEO
			ISSUE FOR BID
			DATE
			1/28/2016
REVISIONS			NO.
			1
			DATE
			1/28/2016
			REMARKS
SHEET NO. SS-04			



SEE SHEET SS-05
MATCH LINE STATION 30+00.00

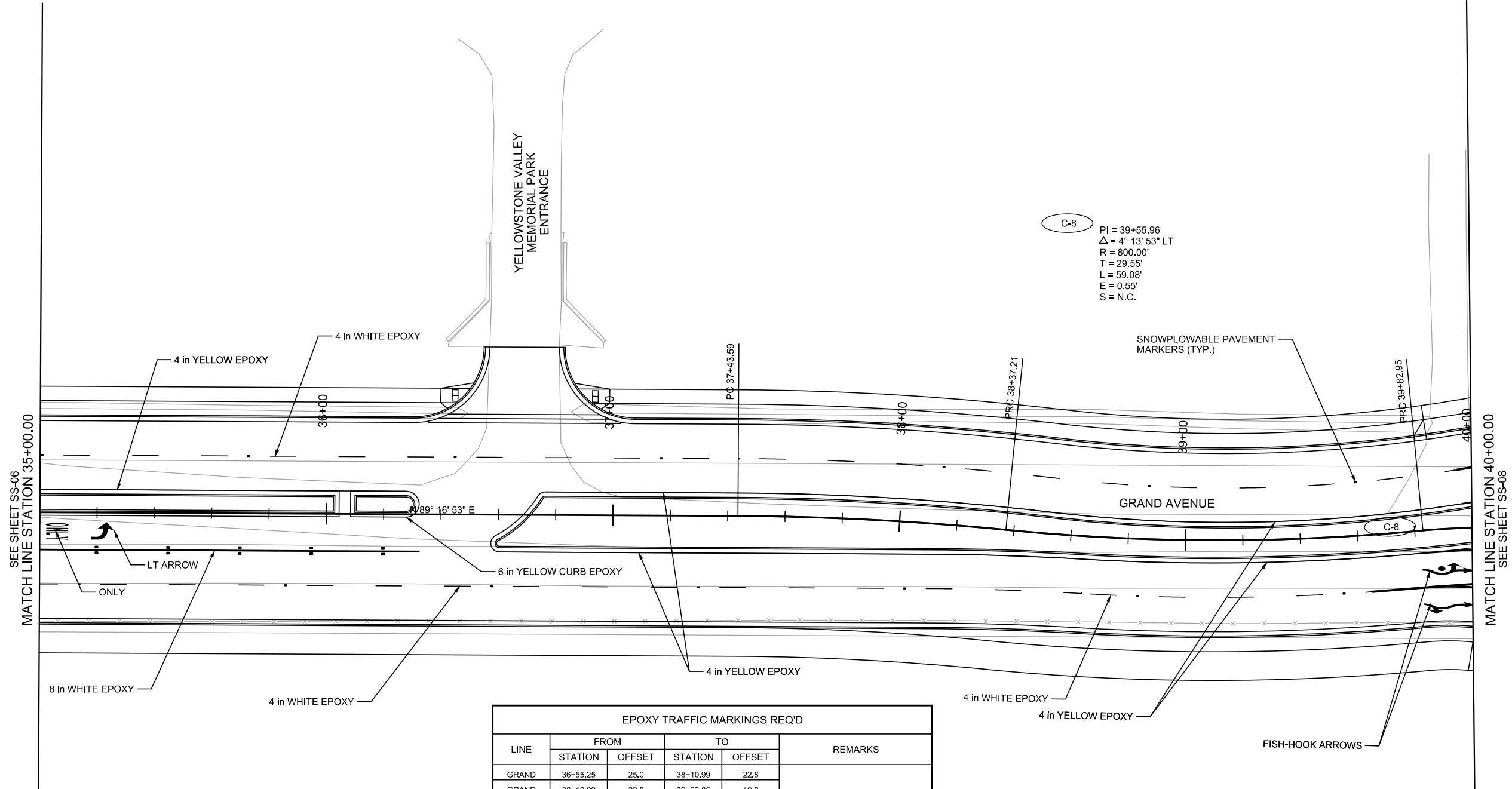
MATCH LINE STATION 35+00.00
SEE SHEET SS-07

LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	30+93.33	25.0	36+55.25	25.0	4" DASHED WHITE
GRAND	30+48.73	-20.2	37+43.59	-20.0	8" WHITE
GRAND	34+82.34	13.0	36+32.34	13.0	4" YELLOW
GRAND	30+48.44	-8.3	36+27.84	-8.0	6" YELLOW CURB
GRAND	30-93.33	13.0	32+79.43	13.0	
GRAND	32+79.43	13.0	33+98.83	1.0	
GRAND	33+98.83	1.0	36+04.44	1.0	

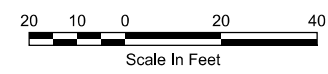


PROJECT NUMBER		CITY OF BILLINGS W.O. 09-15	
PROJECT		GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE	
ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY
	RCL	TEO	
REVISIONS 1 1/28/2016 ISSUE FOR BID NO. DATE			
SHEET NO. SS-06			

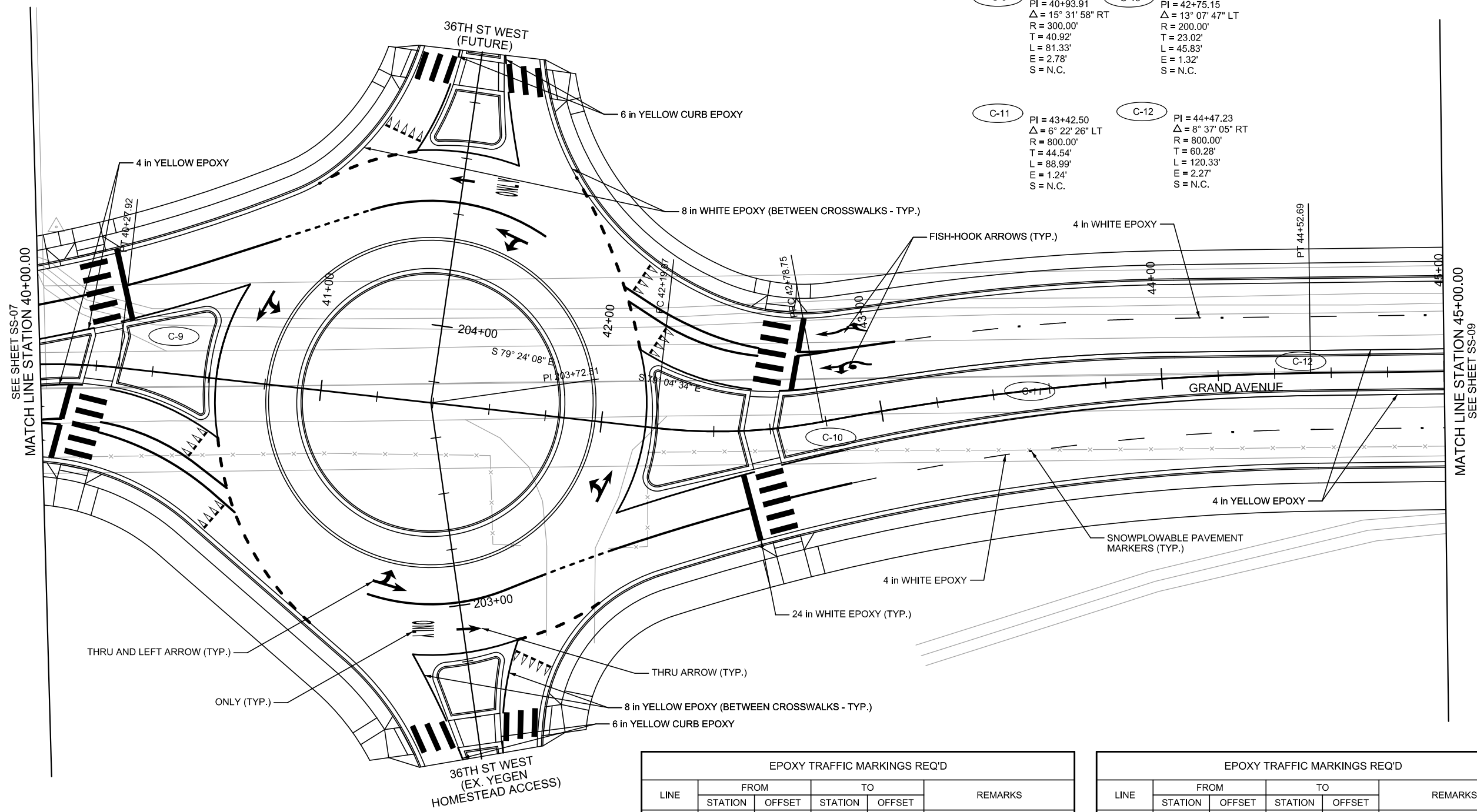
1/27/2016
 ..\Sheet Files\0915_SS_06



EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	36+55.25	25.0	38+10.99	22.8	4" DASHED WHITE
GRAND	38+10.99	22.8	39+63.86	19.8	
GRAND	37+43.59	-20.0	38+52.71	-19.5	
GRAND	38+52.71	-19.5	39+95.46	-20.4	LT ARROW ONLY
GRAND	35+25.94	6.2			
GRAND	35+06.16	6.5			4" YELLOW
GRAND	36+60.43	13.0	38+10.17	10.8	
GRAND	38+10.17	10.8	38+64.75	8.0	
GRAND	38+64.75	8.0	39+82.27	7.8	
GRAND	36+76.32	-8.0	37+43.59	-8.0	
GRAND	37+43.59	-8.0	38+52.24	-7.6	
GRAND	38+52.24	-7.6	39+96.89	-8.5	
GRAND	36+08.44	1.0	36+27.84	1.0	6" YELLOW CURB



PROJECT NUMBER	CITY OF BILLINGS W.O. 09-15	PROJECT	GRAND AVENUE	ISSUE DATE		DESIGNED BY	RCL
			ZIMMERMAN TRAIL TO SHILOH ROAD	DRAWN BY		QC CHECKED BY	TEO
			STRIPING PLAN SHEET	DATE	1/28/2016	ISSUE FOR BID	
			GRAND AVENUE	NO.	1	REMARKS	
SS-07							



C-9	PI = 40+93.91 Δ = 15° 31' 58" RT R = 300.00' T = 40.92' L = 81.33' E = 2.78' S = N.C.	C-10	PI = 42+75.15 Δ = 13° 07' 47" LT R = 200.00' T = 23.02' L = 45.83' E = 1.32' S = N.C.
C-11	PI = 43+42.50 Δ = 6° 22' 26" LT R = 800.00' T = 44.54' L = 88.99' E = 1.24' S = N.C.	C-12	PI = 44+47.23 Δ = 8° 37' 05" RT R = 800.00' T = 60.28' L = 120.33' E = 2.27' S = N.C.

SEE SHEET SS-07
MATCH LINE STATION 40+00.00

MATCH LINE STATION 45+00.00
SEE SHEET SS-09

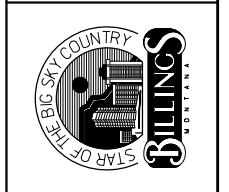
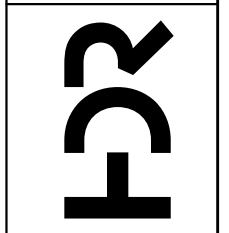
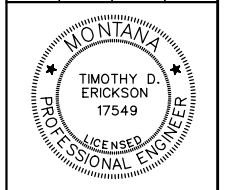
NOTE:
SEE SHEET SS-15 FOR 36TH STREET WEST ROUNDABOUT PAVEMENT MARKINGS



LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
36TH ST W	202+60.13	-10.4	202+85.13	-18.9	8" YELLOW
36TH ST W	202+60.13	9.9	202+85.11	18.8	
36TH ST W	204+60.32	-17.8	204+85.32	-9.5	
36TH ST W	204+60.11	18.8	204+85.32	11.3	6" YELLOW CURB
36TH ST W	202+45.67	-6.6	202+50.13	-7.5	
36TH ST W	202+46.12	7.9	202+50.13	8.3	
36TH ST W	202+60.13	-9.7	202+74.68	-12.9	
36TH ST W	202+60.13	8.7	202+77.80	12.8	
36TH ST W	204+67.19	-13.7	204+85.32	-8.5	
36TH ST W	204+70.49	12.5	204+85.32	9.7	
36TH ST W	204+95.32	-7.1	204+97.75	-7.0	
36TH ST W	204+95.32	8.3	204+98.18	7.9	
36TH ST W	202+90.86	6.7			
36TH ST W	204+52.27	-5.0			THRU AND LEFT ARROW
36TH ST W	203+07.69	-17.8			
36TH ST W	203+39.97	60.4			
36TH ST W	203+91.92	-65.4			
36TH ST W	204+37.06	13.6			
36TH ST W	202+94.09	-17.8			ONLY
36TH ST W	204+52.29	19.7			

LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	42+84.88	23.3	44+55.13	20.0	4" DASHED WHITE
GRAND	44+55.13	20.0	50+87.40	20.0	
GRAND	43+08.33	-23.6	44+05.61	-21.1	
GRAND	44+05.61	-21.1	52+85.40	-20.0	4" YELLOW
GRAND	42+84.42	11.4	44+55.13	8.0	
GRAND	44+55.13	8.0	48+77.24	8.0	
GRAND	42+79.37	-12.2	43+15.22	-11.5	
GRAND	43+15.22	-11.5	44+05.05	-9.2	
GRAND	44+05.05	-9.2	52+85.40	-8.0	FISH-HOOK ARROW
GRAND	40+01.44	14.9			
GRAND	40+01.79	26.9			24" WHITE
GRAND	42+81.03	-18.8			
GRAND	42+81.75	-30.8			
GRAND	40+05.48	27.2			
GRAND	40+09.53	13.2			
GRAND	40+26.95	-29.5			
GRAND	42+52.17	27.3			
GRAND	42+71.36	-18.7			
GRAND	42+76.56	-31.7			

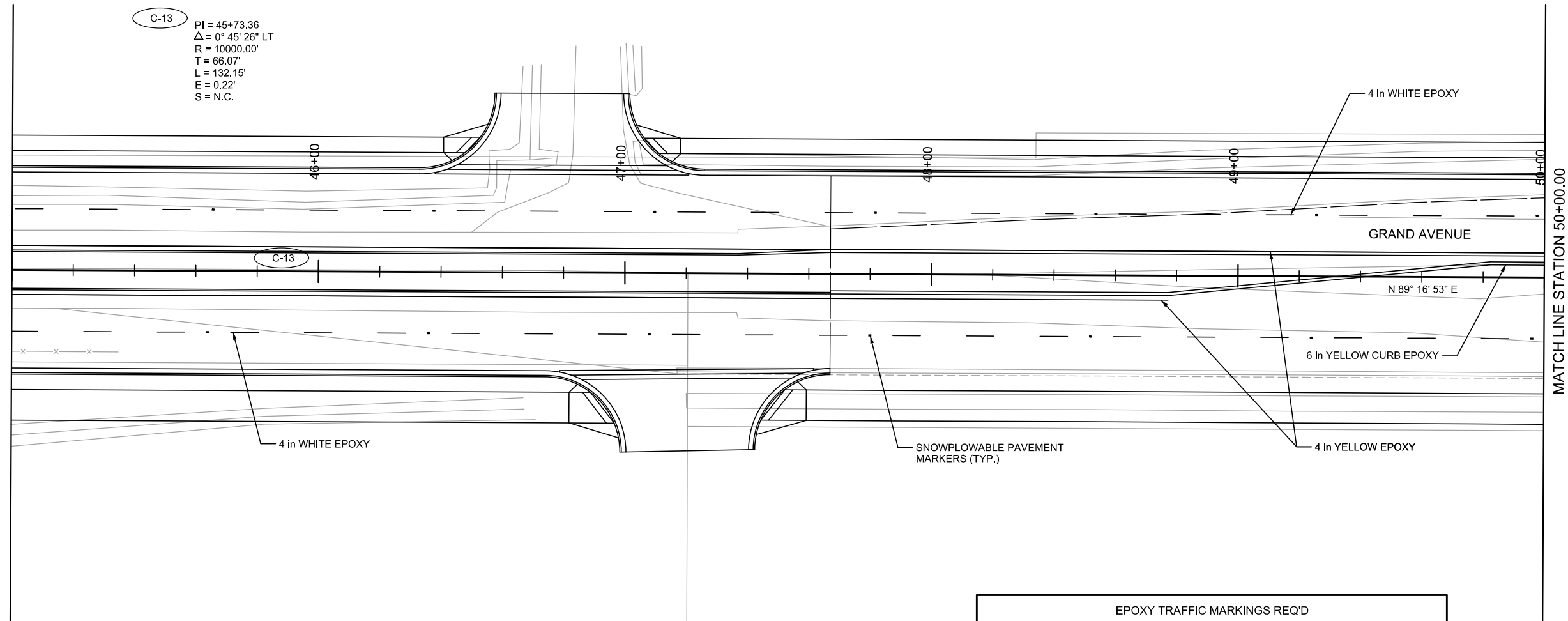
ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY	TEO	NO.	DATE	REMARKS
					1	1/28/2016	ISSUE FOR BID



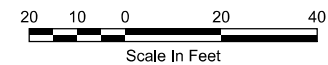
PROJECT NUMBER	CITY OF BILLINGS W.O. 09-15
PROJECT	GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE
SHEET NO.	SS-08

1/27/2016 - Sheet File: 0915_SS_07

SEE SHEET SS-08
MATCH LINE STATION 45+00.00

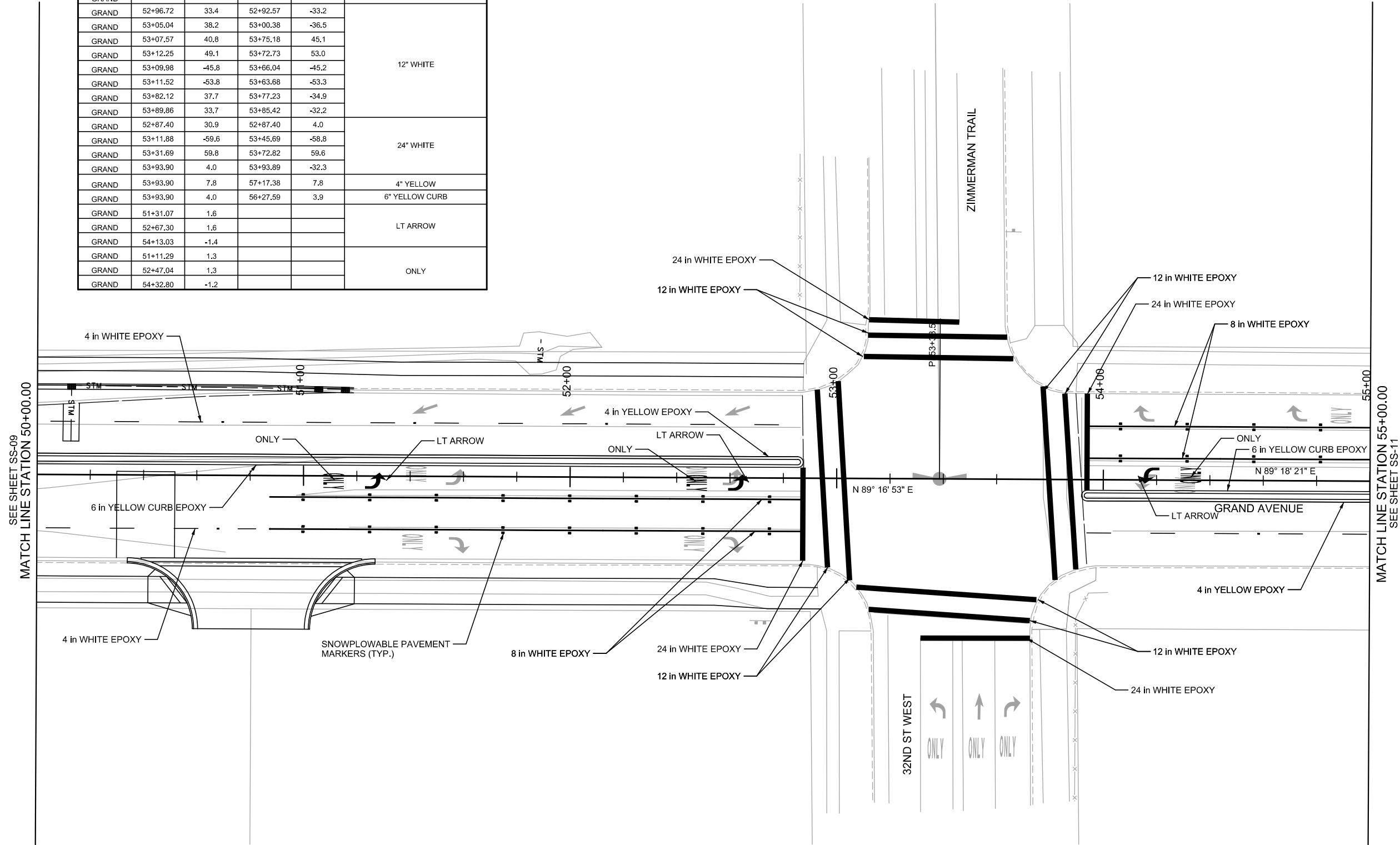


EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	48+77.24	6.5	49+82.24	-4.0	6" YELLOW CURB
GRAND	49+82.24	-4.0	52+85.40	-4.0	



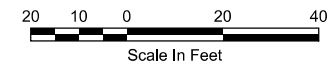
PROJECT NUMBER		CITY OF BILLINGS W.O. 09-15	
PROJECT		GRAND AVENUE	
PROJECT		ZIMMERMAN TRAIL TO SHILOH ROAD	
PROJECT		STRIPING PLAN SHEET	
PROJECT		GRAND AVENUE	
ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY
	RCL		TEO
REVISIONS		NO.	DATE
		1	1/28/2016
		ISSUE FOR BID	REMARKS
SHEET NO.		SS-09	

EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	53+93.91	20.0	57+17.39	19.8	4" DASHED WHITE
GRAND	50+87.40	20.0	52+87.40	20.0	8" WHITE
GRAND	50+87.40	8.0	52+87.40	8.0	
GRAND	53+93.90	-8.0	56+18.90	-8.1	
GRAND	53+93.90	-20.0	56+18.90	-20.1	
GRAND	52+96.72	33.4	52+92.57	-33.2	12" WHITE
GRAND	53+05.04	38.2	53+00.38	-36.5	
GRAND	53+07.57	40.8	53+75.18	45.1	
GRAND	53+12.25	49.1	53+72.73	53.0	
GRAND	53+09.98	-45.8	53+66.04	-45.2	
GRAND	53+11.52	-53.8	53+63.68	-53.3	
GRAND	53+82.12	37.7	53+77.23	-34.9	
GRAND	53+89.86	33.7	53+85.42	-32.2	
GRAND	52+87.40	30.9	52+87.40	4.0	
GRAND	53+11.88	-59.6	53+45.69	-58.8	
GRAND	53+31.69	59.8	53+72.82	59.6	24" WHITE
GRAND	53+93.90	4.0	53+93.89	-32.3	
GRAND	53+93.90	7.8	57+17.38	7.8	
GRAND	53+93.90	4.0	56+27.59	3.9	4" YELLOW
GRAND	51+31.07	1.6			LT ARROW
GRAND	52+67.30	1.6			
GRAND	54+13.03	-1.4			
GRAND	51+11.29	1.3			ONLY
GRAND	52+47.04	1.3			
GRAND	54+32.80	-1.2			



SEE SHEET SS-09
MATCH LINE STATION 50+00.00

MATCH LINE STATION 55+00.00
SEE SHEET SS-11



ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY	TEO	NO.	DATE	REMARKS
					1	1/28/2016	ISSUE FOR BID

REVISIONS

PROFESSIONAL ENGINEER
TIMOTHY D. ERICKSON
17549
MONTANA

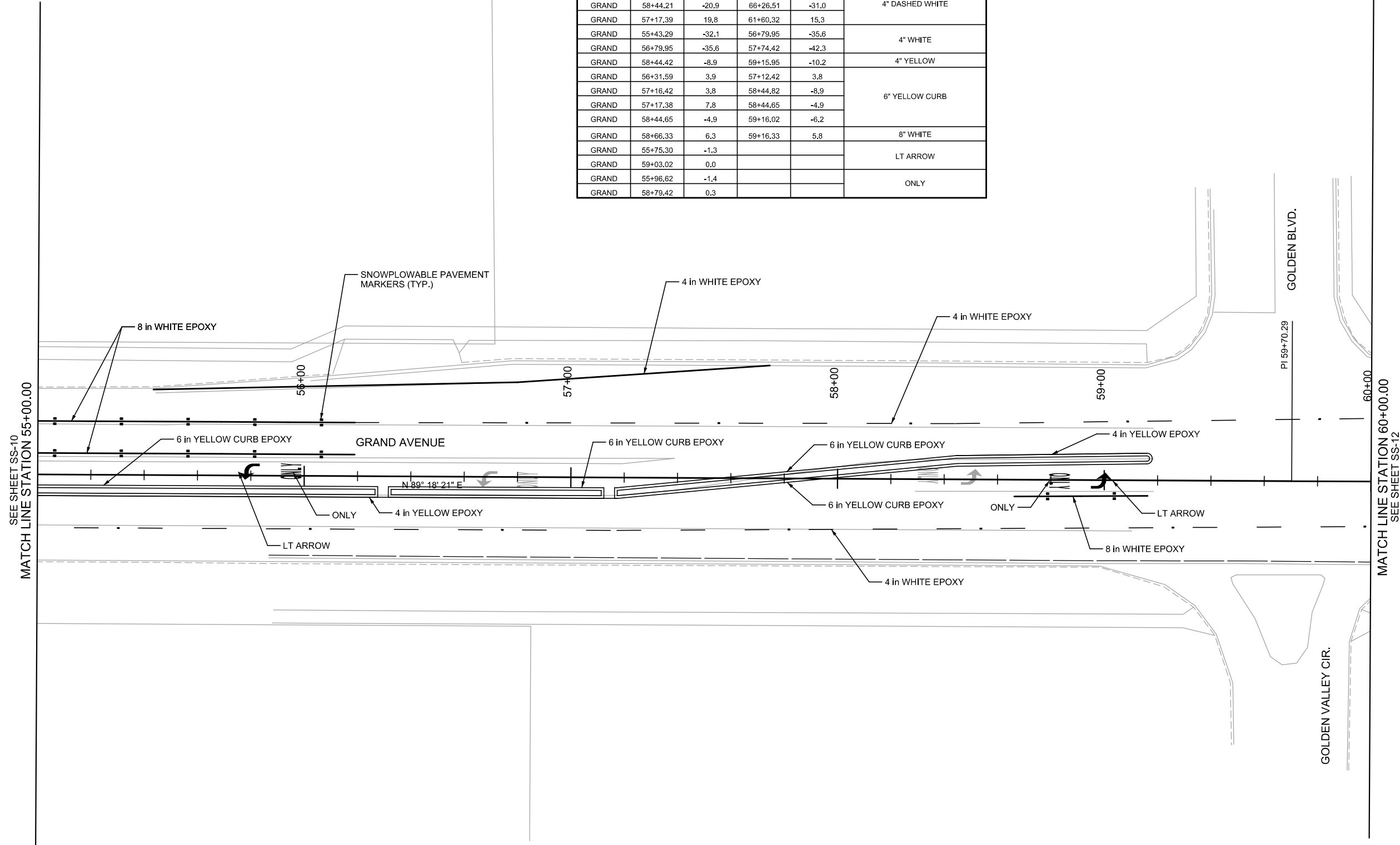
FCR

STAR OF THE BIG SKY COUNTRY
BILLINGS

PROJECT NUMBER: CITY OF BILLINGS W.O. 09-15

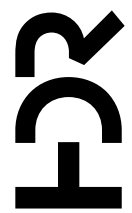
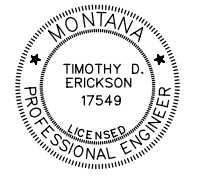
PROJECT: GRAND AVENUE
ZIMMERMAN TRAIL TO SHILOH ROAD
STRIPING PLAN SHEET
GRAND AVENUE

SHEET NO. **SS-10**

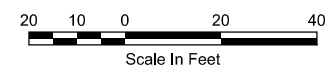


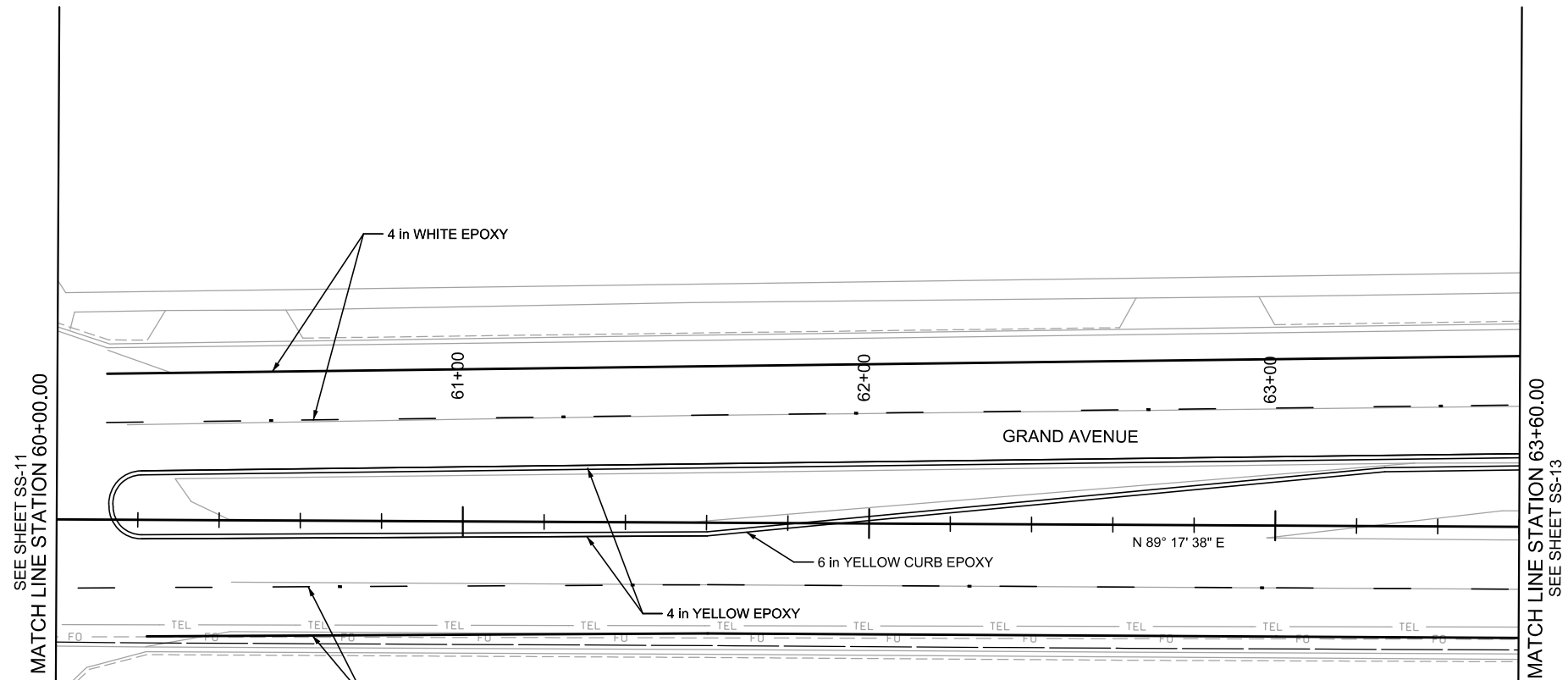
EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	56+18.89	-20.1	58+44.21	-20.9	4" DASHED WHITE
GRAND	58+44.21	-20.9	66+26.51	-31.0	
GRAND	57+17.39	19.8	61+60.32	15.3	
GRAND	55+43.29	-32.1	56+79.95	-35.6	4" WHITE
GRAND	56+79.95	-35.6	57+74.42	-42.3	
GRAND	58+44.42	-8.9	59+15.95	-10.2	4" YELLOW
GRAND	56+31.59	3.9	57+12.42	3.8	6" YELLOW CURB
GRAND	57+16.42	3.8	58+44.82	-8.9	
GRAND	57+17.38	7.8	58+44.65	-4.9	
GRAND	58+44.65	-4.9	59+16.02	-6.2	
GRAND	58+66.33	6.3	59+16.33	5.8	
GRAND	55+75.30	-1.3			8" WHITE
GRAND	59+03.02	0.0			LT ARROW
GRAND	55+96.62	-1.4			ONLY
GRAND	58+79.42	0.3			

ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY	TEO	NO.	DATE	REMARKS
					1	1/28/2016	ISSUE FOR BID

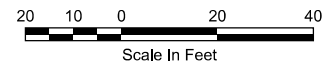


PROJECT NUMBER	CITY OF BILLINGS W.O. 09-15
PROJECT	GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE
SHEET NO.	SS-11



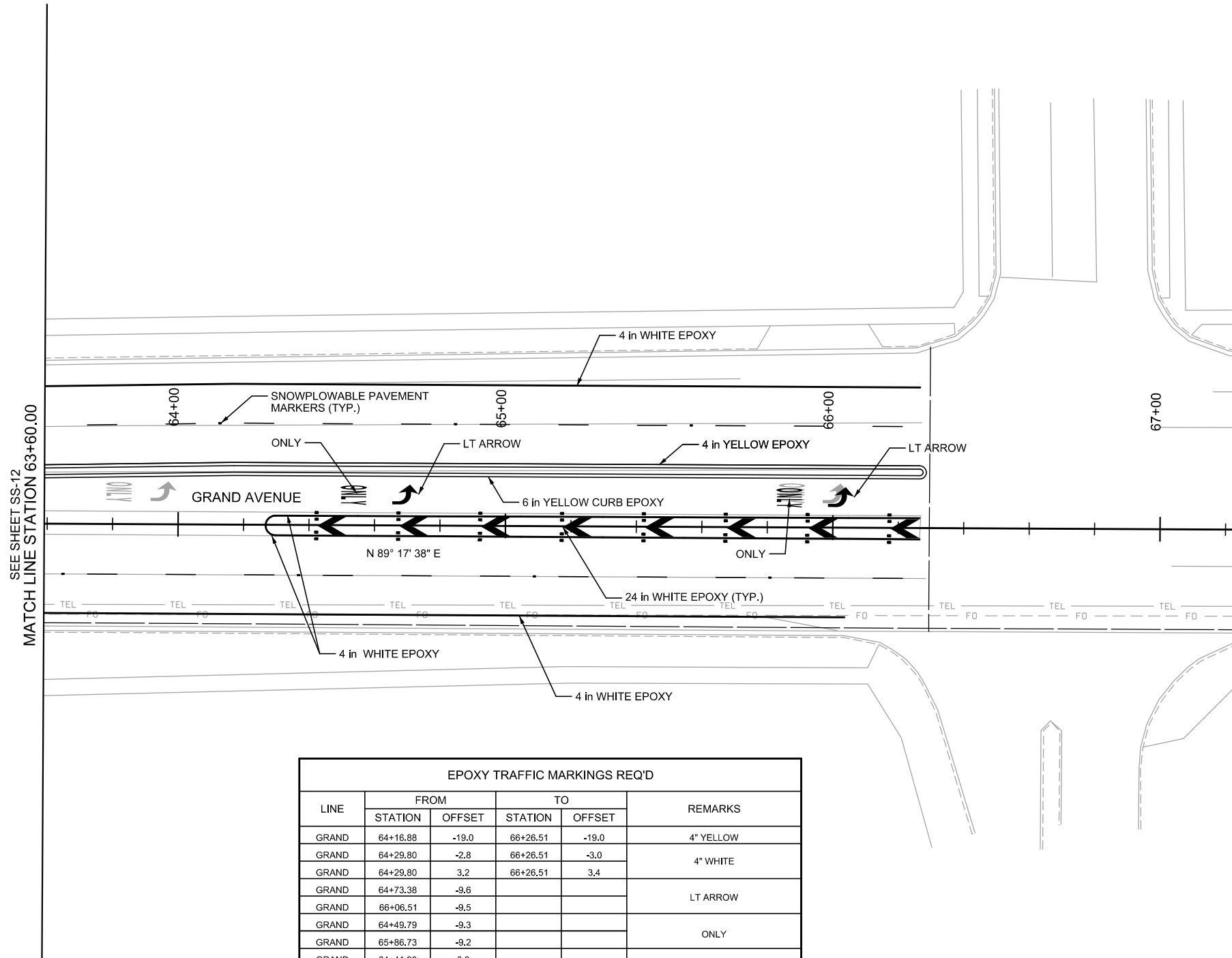


EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	61+60.32	15.3	66+26.51	15.4	4" DASHED WHITE
GRAND	60+12.30	-35.9	66+26.51	-43.0	4" WHITE
GRAND	60+22.32	28.7	61+60.32	27.3	
GRAND	61+60.32	27.3	63+00.39	27.3	
GRAND	63+00.39	27.3	66+03.68	27.4	4" YELLOW
GRAND	60+20.72	-12.1	64+16.88	-19.0	
GRAND	60+20.96	4.7	61+60.20	3.3	
GRAND	61+60.20	3.3	63+26.92	-13.4	6" YELLOW CURB
GRAND	63+26.92	-13.4	66+26.51	-15.0	



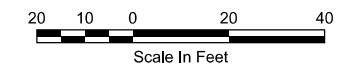
PROJECT NUMBER CITY OF BILLINGS W.O. 09-15	PROJECT GRAND AVENUE ZIMMERMAN TRAIL TO SHILOH ROAD STRIPING PLAN SHEET GRAND AVENUE	ISSUE DATE DESIGNED BY DRAWN BY QC CHECKED BY RCL TEO	REVISIONS 1 NO. DATE 1/28/2016	REMARKS ISSUE FOR BID
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PROJECT NO. **SS-12**

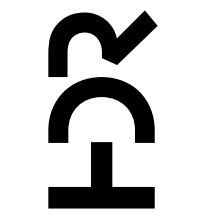
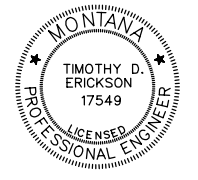


SEE SHEET SS-12
MATCH LINE STATION 63+60.00

EPOXY TRAFFIC MARKINGS REQ'D					
LINE	FROM		TO		REMARKS
	STATION	OFFSET	STATION	OFFSET	
GRAND	64+16.88	-19.0	66+26.51	-19.0	4" YELLOW
GRAND	64+29.80	-2.8	66+26.51	-3.0	4" WHITE
GRAND	64+29.80	3.2	66+26.51	3.4	
GRAND	64+73.38	-9.6			LT ARROW
GRAND	66+06.51	-9.5			
GRAND	64+49.79	-9.3			ONLY
GRAND	65+86.73	-9.2			
GRAND	64+41.93	0.2			24" SOLID WHITE (CHEVRON)
GRAND	64+66.93	0.2			
GRAND	64+91.93	0.2			
GRAND	65+16.93	0.2			
GRAND	65+41.93	0.2			
GRAND	65+66.93	0.2			
GRAND	65+91.93	0.2			
GRAND	66+16.93	0.2			



ISSUE DATE	DESIGNED BY	DRAWN BY	QC CHECKED BY	TEO	NO.	DATE	REMARKS
	RCL				1	1/28/2016	ISSUE FOR BID



PROJECT NUMBER: CITY OF BILLINGS W.O. 09-15
 PROJECT: GRAND AVENUE
 ZIMMERMAN TRAIL TO SHILOH ROAD
 STRIPING PLAN SHEET
 GRAND AVENUE