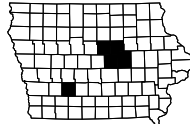


STATEWIDE COUNTY

Pavement Markings
HSIPX-000-T(454)--3L-00

LETTING DATE
08/18/2026



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
C Sheets	Quantities and General Information
C.1	Estimated Project Quantities
C.2	Project Description
C.3 - 6	Ttabulations
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
U Sheets	500 Series, Mod.Stds. and Detail Sheets
U.1 - 12	Modified Pavement Marking details



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
STATEWIDE COUNTY
Pavement Markings
Various Counties and Routes in District 1

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



REVISIONS

TOTAL	
21	
PROJECT IDENTIFICATION NUMBER	
26-00-000-090	
PROJECT NUMBER	
HSIPX-000-T(454)--3L-00	
R.O.W. PROJECT NUMBER	
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INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Devendra Tamrakar	Primary Signature Block	C.1

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature

Devendra Tamrakar

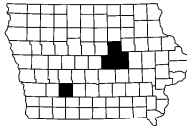
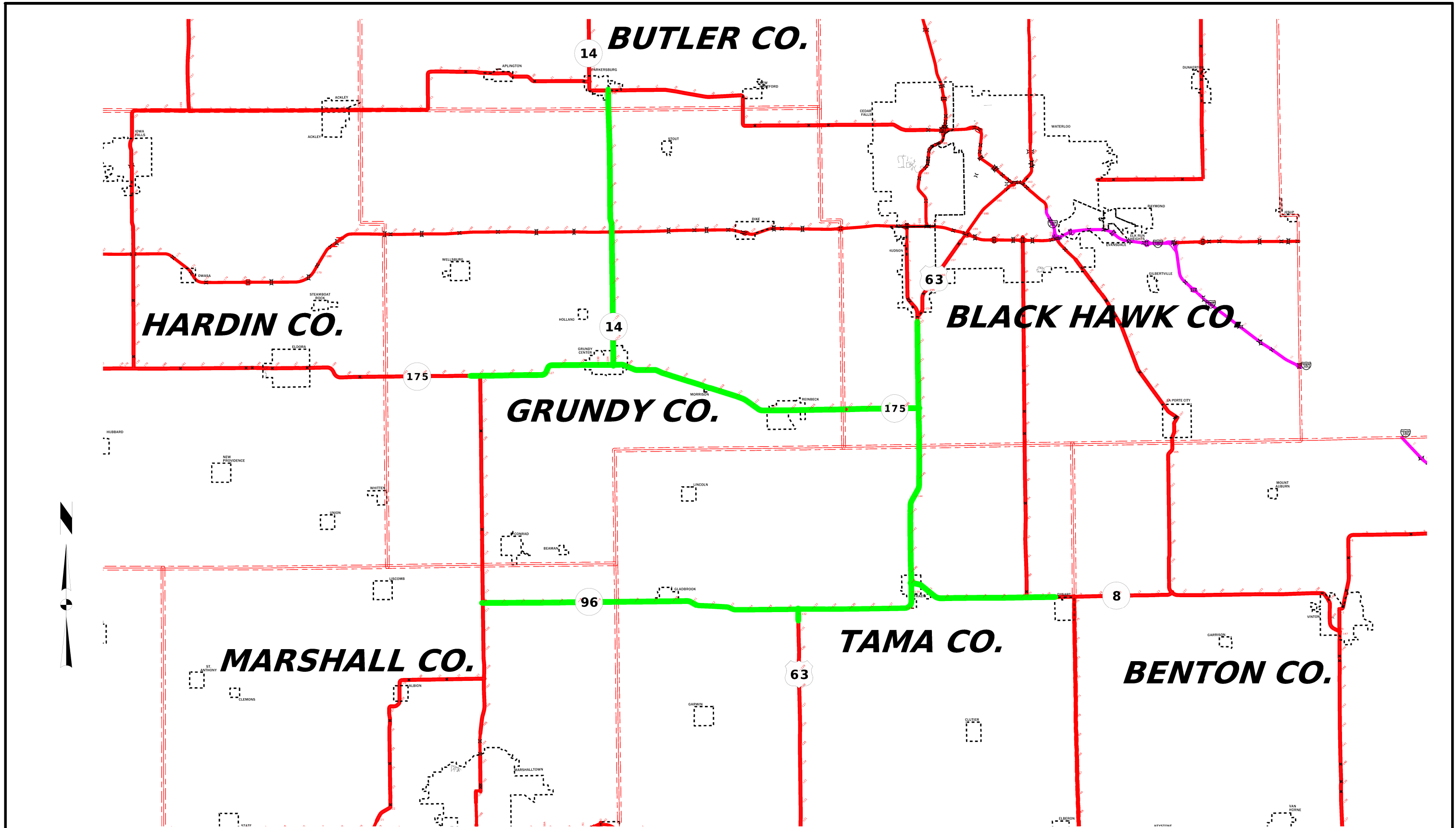
Printed or Typed Name

06-09-2026

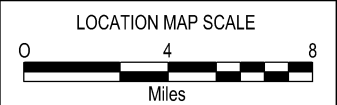
Date

My license renewal date is December 31, 2027

Pages or sheets covered by this seal: A.1-A.2, C.1-C.6, J.1; U.1-U.12
X



LEGEND:
 Project Route



ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	2	Refer to Tab. 108-29 on C sheets.
2	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	12,646.2	Refer to Tab. 108-22 on C sheets.
3	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	9,402.31	
4	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	2	Refer to Tab. 108-29 on C sheets.
5	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on J.1 Sheet.
6	2533-4980005	MOBILIZATION	LS	1	--

PROJECT DESCRIPTION

The purpose of this project is to install grooved edge line markings on two-lane primary roads in various counties within District 1 where grooved edge line markings are not currently present. The project also includes restriping the centerline throughout the project limits, with centerline grooving added only in locations where centerline rumble strips are not present.

100-1D
10-18-05

INDEX OF TABULATIONS

111-25
10-18-11

Tabulation	Tabulation Title	Sheet No.
C Sheets		
100-1D	PROJECT DESCRIPTION	C.2
105-4_TAB	STANDARD ROAD PLANS	C.2
108-22	PAVEMENT MARKING LINE TYPES	C.3 - C.6
108-29	PAVEMENT MARKING SYMBOLS AND LEGENDS	C.6

STANDARD ROAD PLANS

105-4
10-18-11

The following Standard Road Plans apply to construction work on this project.

[illegible]

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

CLW6: Crosswalk Line (White) @ 2.00

5/28/2026 9:48:12 AM dtamrak c:\pw_work\pwmain\dtamrak\d2662403\C02 00000454..xls

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

ELW6: Edge Line Right (White) @ 1.00				DCY6: Double Centerline (Yellow) @ 2.00				CHW10: Channelizing Line (White) @ 1.67				SLW2: Stop Line (White) @ 4.00			
CHY10: Channelizing Line (Yellow) @ 1.67				NPY6: No Passing Zone Line (Yellow) @ 1.25				DLW6: Dotted Line (White) @ 0.33							
BCY6: Broken Centerline (Yellow) @ 0.25				SLW6: Solid Lane Line (White) @ 1.00				CLW6: Crosswalk Line (White) @ 2.00							
				BLW6: Broken Lane Line (White) @ 0.25				CBW6: Crosswalk Bar (White) @ 10.00							

Location							Length by Line Type (Unfactored)															Remarks	
Road ID	Station(MP) to Station(MP)		Dir. of Travel	Marking Type	Side			ELW6		DCY6	CHW10	SLW2	CHY10	SLW6	NPY6		DLW6	BCY6	BLW6	CBW6	CLW6		
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA		STA
IA 175	206.24	206.75	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	53.86															
IA 175	206.75	207.39	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	67.58										33.79					up to HWY T47 up to HWY T47
IA 175	206.75	207.39	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	67.58															
IA 175	206.75	207.5	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	79.20							39.60								
IA 175	206.75	207.5	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	79.20															
IA 175	207.5	209.1	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	168.96										84.48					
IA 175	207.5	209.1	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	168.96															
IA 175	209.1	209.52	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	44.35										22.18					
IA 175	209.1	209.52	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	44.35										22.18					
IA 175	209.52	212.26	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	289.34										144.67					
IA 175	209.52	212.26	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	289.34															
IA 175	212.26	212.69	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	45.41							22.70								
IA 175	212.26	212.69	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	45.41															
IA 175	212.69	212.97	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	29.57										14.78					
IA 175	212.69	212.97	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	29.57															
IA 175	212.97	213.96	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	104.54		49.27												Within City Limit Within City Limit	
IA 175	212.97	213.96	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	104.54		49.27													
IA 175	213.96	214.52	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	59.14										29.57					
IA 175	213.96	214.52	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	59.14															
IA 175	214.52	214.91	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	41.18							20.59								
IA 175	214.52	214.91	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	41.18															
IA 175	214.91	215.46	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	58.08										29.04					
IA 175	214.91	215.46	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	58.08															
IA 175	215.46	215.82	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	38.02							19.01								
IA 175	215.46	215.82	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	38.02															
IA 175	215.82	217.27	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	153.12		6.40					56.18			13.98					
IA 175	215.82	217.27	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	153.12															
IA 175	217.27	218.27	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	105.60							32.18			20.62					
IA 175	217.27	218.27	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	105.60															
IA 175	218.27	220.79	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	266.11			0.40	0.38			38.94			94.12					
IA 175	218.27	220.79	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	266.11			0.40	0.38											
IA 8	0	0.44	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		x				21.43													
IA 8	0	0.44	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS		x				21.43													
IA 8	0.44	0.53	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	9.50		4.75													
IA 8	0.44	0.53	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	7.15		2.40													
IA 8	0.53	0.71	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	19.01										9.50					
IA 8	0.53	0.71	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	19.01										9.50					
IA 8	0.71	0.91	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	21.12										10.56					
IA 8	0.71	0.91	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	21.12															
IA 8	0.91	1.26	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	35.36							18.48								
IA 8	0.91	1.26	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	35.36															
IA 8	1.26	1.4	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	14.78										7.39					
IA 8	1.26	1.4	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	14.78															
IA 8	1.4	1.54	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	14.78							7.39								
IA 8	1.4	1.54	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	14.78															
IA 8	1.54	1.67	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	13.73		6.86													
IA 8	1.54	1.67	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	13.73															
IA 8	1.67	2.01	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	35.90							2.48			15.47					
IA 8	1.67	2.01	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	35.90															
IA 8	2.01	3.06	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	110.88							42.44			13.00					
IA 8	2.01	3.06	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	110.88															
IA 8	3.06	6.03	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	310.11							2.60			156.82					
IA 8	3.06	6.03	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	310.11							2.60								
IA 8	6.03	6.41	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	38.63							3.00	20.06							
IA 8	6.03	6.41	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	38.63							3.00								
IA 8	6.41	6.65	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	25.34										12.67					
IA 8	6.41	6.65	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	25.34															
IA 8	6.65	7	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	36.96							18.48								
IA 8	6.65	7	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	36.96															
IA 8	7	7.35	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	36.96										18.48					
IA 8	7	7.35	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	36.96															

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

ELW6: Edge Line Right (White) @ 1.00				DCY6: Double Centerline (Yellow) @ 2.00				CHW10: Channelizing Line (White) @ 1.67				SLW2: Stop Line (White) @ 4.00			
CHY10: Channelizing Line (Yellow) @ 1.67				NPY6: No Passing Zone Line (Yellow) @ 1.25				DLW6: Dotted Line (White) @ 0.33							
BCY6: Broken Centerline (Yellow) @ 0.25				CLW6: Crosswalk Line (White) @ 2.00											

Location						Length by Line Type (Unfactored)																	Remarks
Road ID	Station(MP) to Station(MP)		Dir. of Travel	Marking Type	Side			ELW6		DCY6	CHW10	SLW2	CHY10	SLW6	NPY6		DLW6	BCY6	BLW6	CBW6	CLW6		
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
IA 96	3.14	5.44	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	239.88															
IA 96	5.44	5.91	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	49.63							17.72			7.10					
IA 96	5.44	5.91	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	49.63															
IA 96	5.91	7.13	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	127.33		8.40					40.44			15.58					
IA 96	5.91	7.13	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	127.33															
IA 96	7.13	7.69	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	59.14		3.72					25.85								
IA 96	7.13	7.69	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	59.14															
IA 96	7.69	8.07	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	18.86										20.06					
IA 96	7.69	8.07	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	18.86															
IA 96	8.07	8.37	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	31.68							13.84			2.00					
IA 96	8.07	8.37	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	31.68															
IA 96	8.37	8.94	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	60.19										30.10					
IA 96	8.37	8.94	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	60.19															
IA 96	8.94	10.03	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	112.10		7.00					50.55							Within City Limit	
IA 96	8.94	10.03	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	112.10		8.00					49.55							Within City Limit	
IA 96	10.03	11.95	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	200.95										101.38					
IA 96	10.03	11.95	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	200.95															
IA 96	11.95	12.28	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	33.15							17.42								
IA 96	11.95	12.28	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	33.15															
IA 96	12.28	13.04	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	79.46										40.13					
IA 96	12.28	13.04	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	79.46															
IA 96	13.04	13.37	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	34.85							17.42								
IA 96	13.04	13.37	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	34.85															
IA 96	13.37	14.71	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	139.90		18.03				1.78	50.22			2.50					
IA 96	13.37	14.71	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	139.90						1.78									
IA 96	14.71	15.79	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	112.45							20.05			36.97					
IA 96	14.71	15.79	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	112.45															
IA 96	15.79	16.1	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	32.74		8.00								8.37					
IA 96	15.79	16.1	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	32.74															
IA 96	16.1	16.4	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	31.68		15.84													
IA 96	16.1	16.4	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	31.68															
IA 96	16.4	16.6	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	21.12					31.30										
IA 96	16.4	16.6	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	21.12					10.40										
US 63	131.75	132.14	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	39.38										20.59					
US 63	131.75	132.14	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	39.38															
US 63	132.14	132.26	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	12.67			0.75	0.44			6.34								
US 63	132.14	132.26	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	12.67			0.75	0.44											
US 63	132.28	132.52	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	25.34					37.34	3.10									
US 63	132.28	132.52	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	25.34					37.34	3.10									
US 63	132.52	132.64	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	12.67							6.34								
US 63	132.52	132.64	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	12.67															
US 63	132.64	137.91	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	547.51										278.26					
US 63	132.64	137.91	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	547.51															
US 63	137.91	138.04	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	13.73							6.86								
US 63	137.91	138.04	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	13.73															
US 63	138.04	138.61	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	58.19		30.10						2.00							
US 63	138.04	138.61	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	58.19							2.00								
US 63	138.61	139.7	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x			47.35		0.48						107.90		0.96		Within City Limits	
US 63	138.61	139.7	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x			47.35		0.48						107.90		0.96		Within City Limits	
US 63	139.7	139.96	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	27.46		13.73													
US 63	139.7	139.96	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	27.46															
US 63	139.96	140.46	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	52.80										26.40					
US 63	139.96	140.46	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	52.80															
US 63	140.46	140.7	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	25.34							12.67								
US 63	140.46	140.7	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	25.34															
US 63	140.7	141.44	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	78.14										39.07					
US 63	140.7	141.44	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	78.14															
US 63	141.44	141.76	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	33.79							16.90								
US 63	141.44	141.76	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x																

108-22

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELW6: Edge Line Right (White) @ 1.00

SLW6: Solid Lane Line (White) @ 1.00

DCY6: Double Centerline (Yellow) @ 2.00

CHW10: Channelizing Line (White) @ 1.67

SLW2: Stop Line (White) @ 4.00

CHY10: Channelizing Line (Yellow) @ 1.67

NPY6: No Passing Zone Line (Yellow) @ 1.25

DLW6: Dotted Line (White) @ 0.33

BCY6: Broken Centerline (Yellow) @ 0.25

BLW6: Broken Lane Line (White) @ 0.25

CLW6: Crosswalk Line (White) @ 2.00

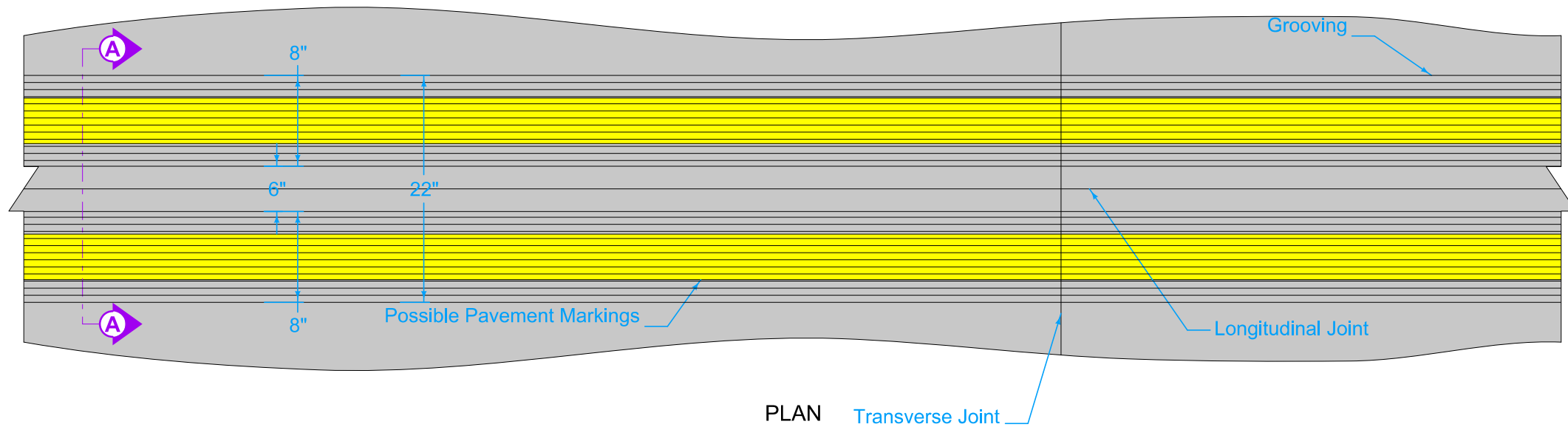
CBW6: Crosswalk Bar (White) @ 10.00

Road ID			Station(MP) to Station(MP)		Dir. of Travel	Marking Type	Side			ELW6		DCY6	CHW10	SLW2	CHY10	SLW6	NPY6		DLW6	BCY6	BLW6	CBW6	CLW6		Remarks
							L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
US 63		145.46	145.97	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	52.66		11.92						15.01								
US 63		145.46	145.97	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	52.66																
US 63		145.97	146.51	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	57.02											28.51					
US 63		145.97	146.51	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	57.02																
US 63		146.51	146.86	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	36.96		1.22						17.26								
US 63		146.51	146.86	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	36.96																
US 63		146.86	148.36	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	157.20							2.00				79.20					
US 63		146.86	148.36	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	157.20							2.00									
US 63		148.36	148.47	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	11.62								5.81								
US 63		148.36	148.47	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	11.62																
US 63		148.47	148.86	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	39.98						49.34	4.72									
US 63		148.47	148.86	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x	x	x	39.98						11.00	4.72									
US 63		148.86	149.63	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	80.11								7.71			32.95					
US 63		148.86	149.63	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	80.11																
US 63		149.63	150.98	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	142.56		7.04					3.91	2.54			61.70					
US 63		149.63	150.98	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	142.56							3.91									
US 63		150.98	151.34	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	38.02		2.12						16.89								
US 63		150.98	151.34	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	38.02																
US 63		151.34	152.12	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	81.17											41.18					
US 63		151.34	152.12	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	81.17																
US 63		152.12	152.53	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	43.30		2.72						18.93								
US 63		152.12	152.53	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	43.30																
US 63		152.53	152.87	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	35.90											17.95					
US 63		152.53	152.87	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	35.90																
US 63		152.87	152.95	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	x	x	x	8.45								4.22								
US 63		152.87	152.95	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	x		x	8.45																

108-29
04-21-15

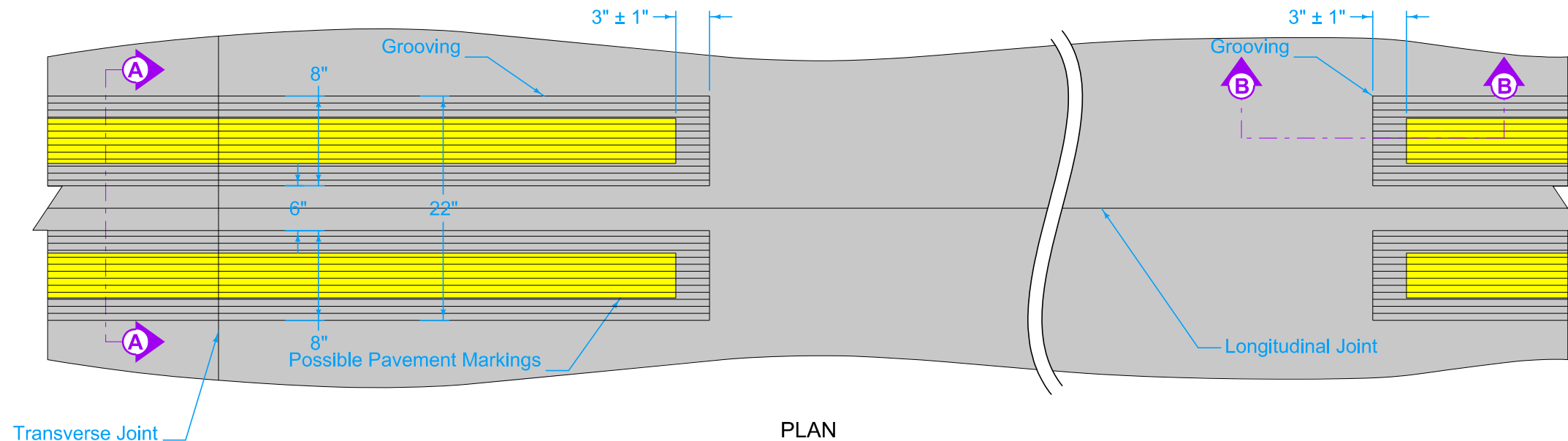
PAVEMENT MARKING SYMBOLS AND LEGENDS																											
Road Identification		Location		Refer to PM-111																				Remarks			
		Station (MP)	Side															SCHOOL	XING	STOP	AHEAD	ONLY	BIKE		LANE	EXIT	Groove Cuts
				STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW		LANW	XITW	EACH
IA 14	130.76				1																				1		
IA 14	130.78				1																				1		
				Totals:	2																				2		

TRAFFIC CONTROL PLAN				108-23A 08-01-08	
Traffic will be maintained at all times. TC-233 will be implemented for grooving and pavement marking. The Contractor shall promptly install pavement markings in newly cut grooves. The maximum length of roadway open to traffic without pavement markings shall not exceed 5 miles at any time					
FILE NO.		DESIGN TEAM	VORTHERMS\ADEY\TAMRAKAR		
			STATEWIDE COUNTY	PROJECT NUMBER	HSIPX-000-T(454) - - 3L-00
				SHEET NUMBER	J.1



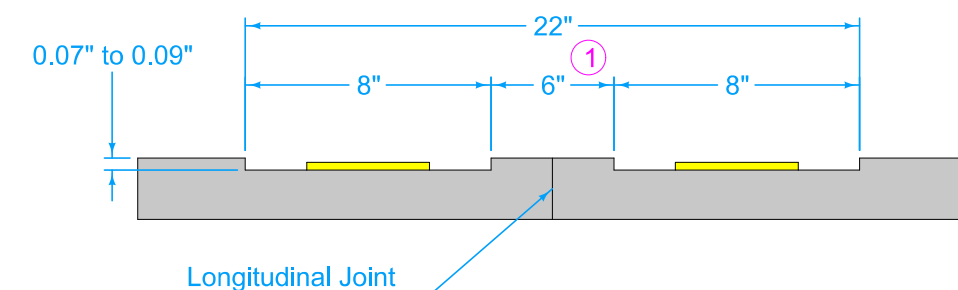
Do not groove temporary pavement markings.

① Center 6 inch gap over longitudinal joint.

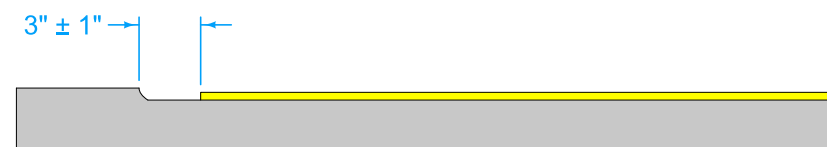


Transverse Joint

PLAN



SECTION A-A
CROSS-SECTION



SECTION B-B
PROFILE

Possible Contract Item:
Grooves Cut for Pavement Markings

Possible Tabulation:
108-22

MOD. PM-115

MODIFICATIONS: Modified ELW, and ELY to match pm-110.
Added double yellow at left turn lane.

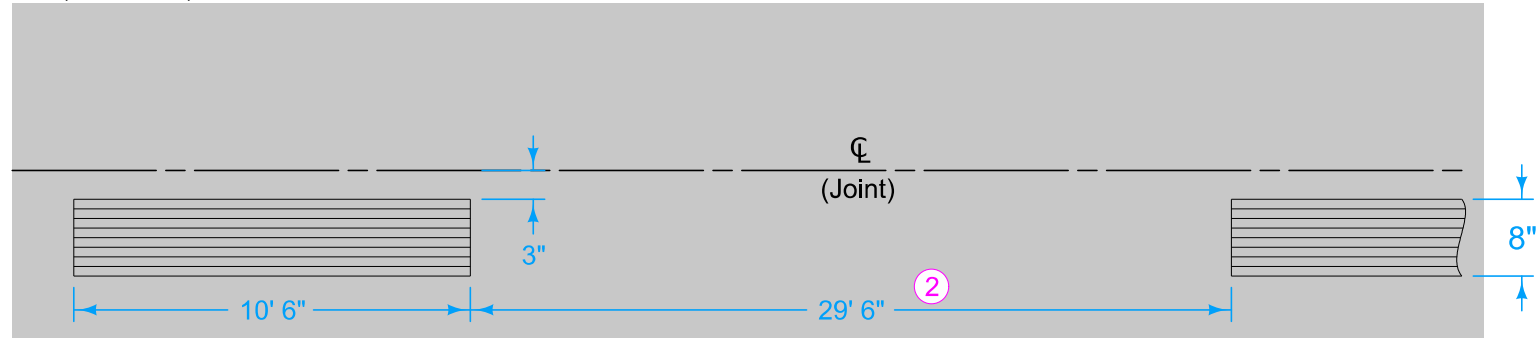
GROOVING FOR
LINE TYPES

06-2026

SHEET 1 of 4

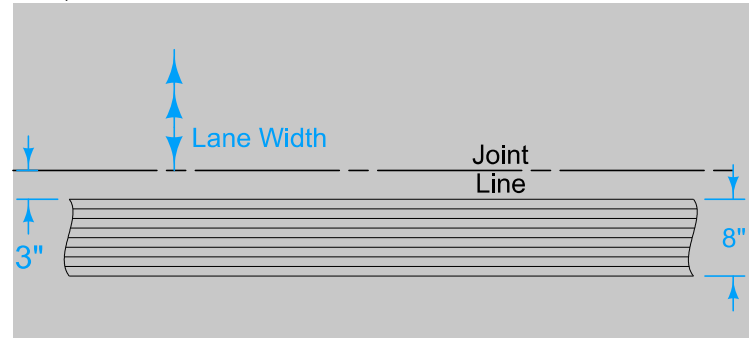
BCY# BLW#

BROKEN CENTERLINE



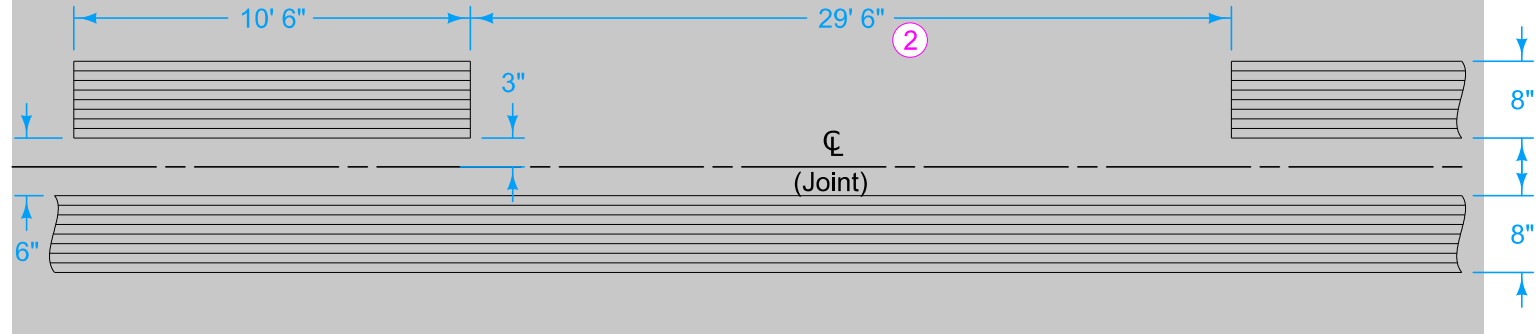
SLW#

SOLID LANE LINE



NPY#

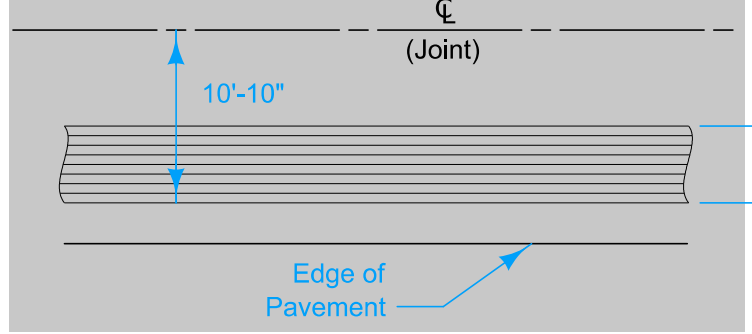
NO PASSING ZONE LINE



ELW#

ELY#

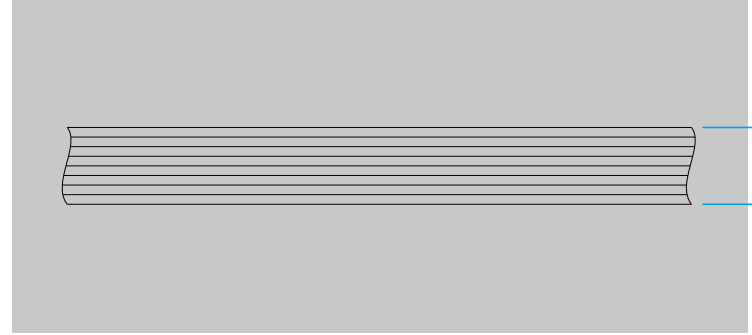
LANE EDGE LINE



DLY#

DLW#

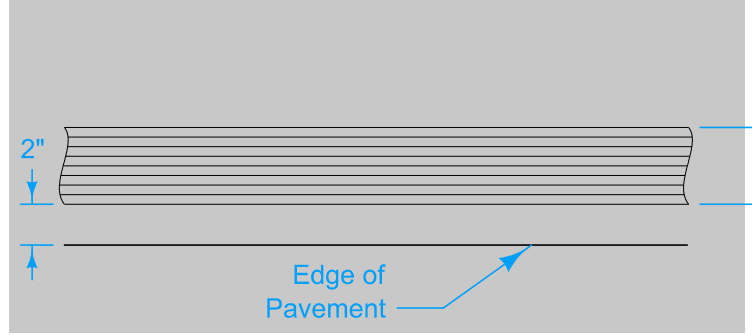
DOTTED LINE



RLW#

RLY#

RAMP EDGE LINE

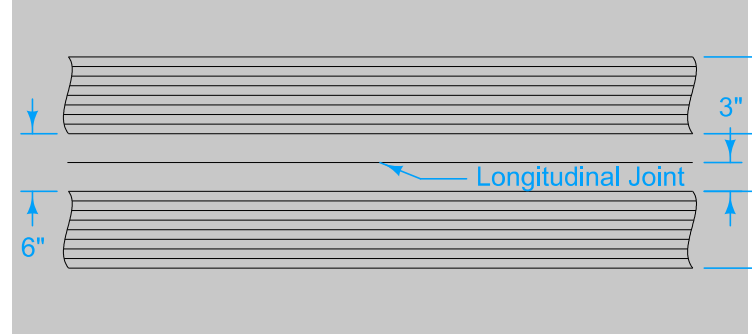


DCY#

DOUBLE CENTERLINE

DDY#

DOUBLE DOTTED LINE



MOD. PM-115

MODIFICATIONS: Modified ELW, and ELY to match pm-110.
Added double yellow at left turn lane.

GROOVING FOR
LINE TYPES

06-2026

SHEET 2 of 4

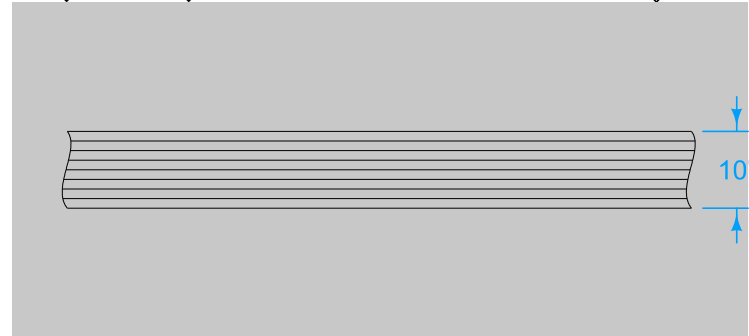
CHY8

CHW8

CHANNELIZING LINE

LDW8

LANE DROP



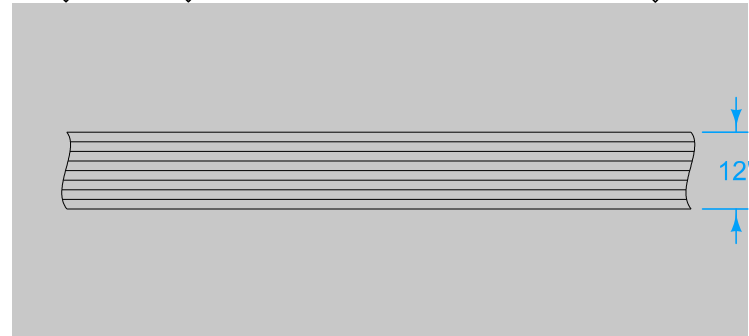
CHY10

CHW10

CHANNELIZING LINE

LDW10

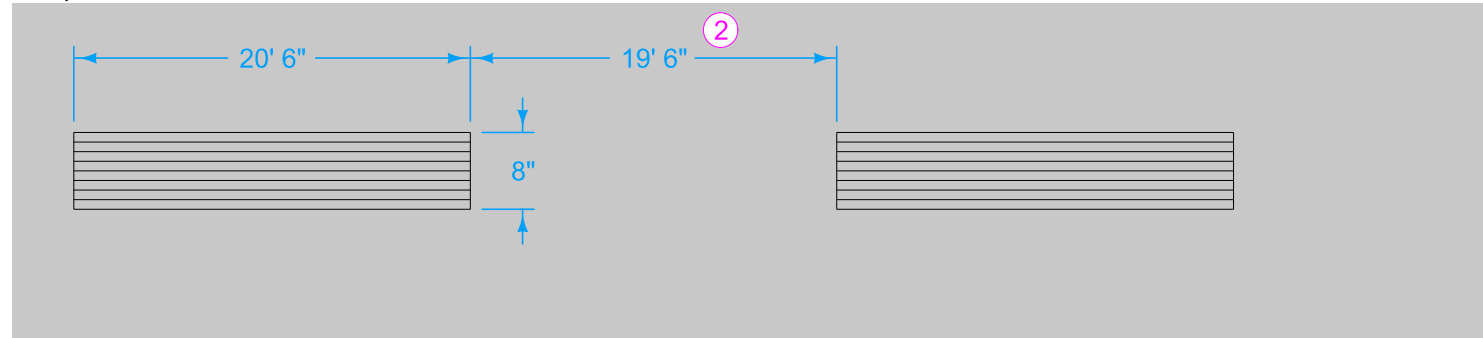
LANE DROP



2 Do not continously groove broken line styles.

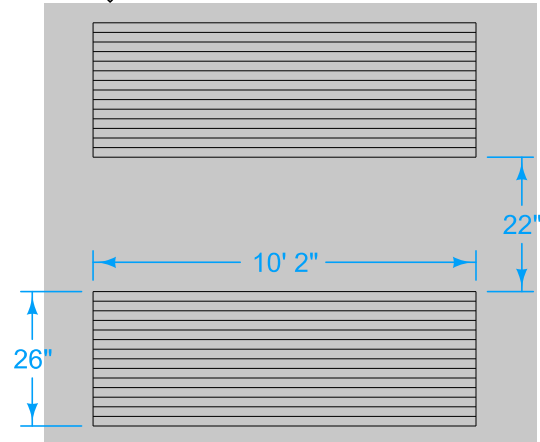
BLC6

BROKEN LANE LINE



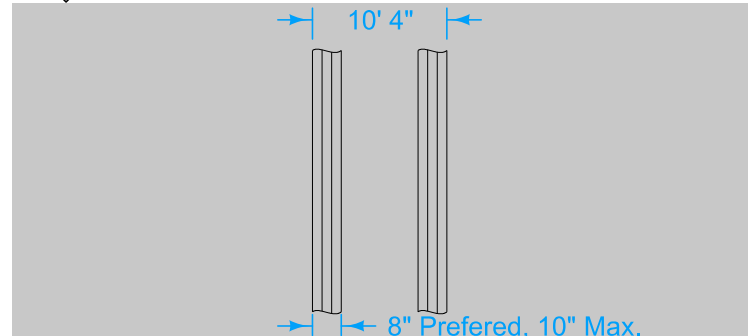
CBW6

CROSSWALK BAR



CLW6

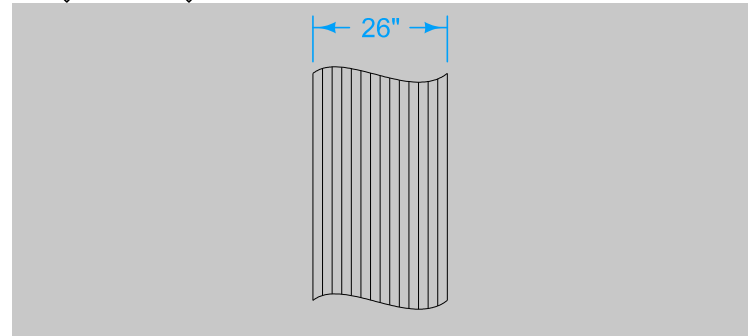
CROSSWALK LINE



SLW2

YLW2

STOP LINE / YIELD LINE



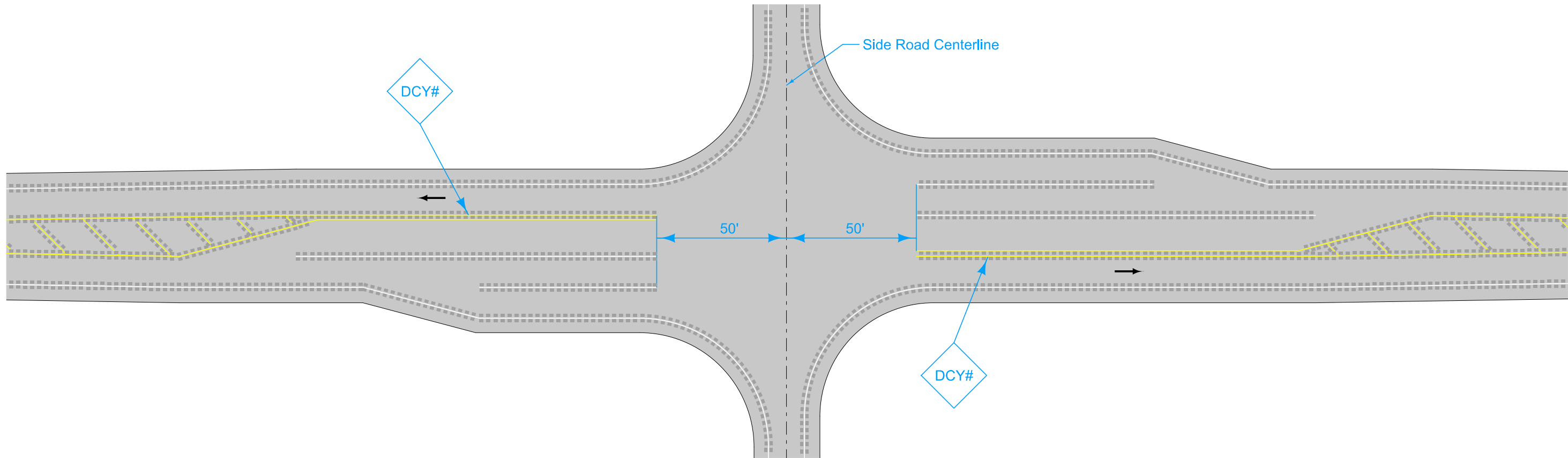
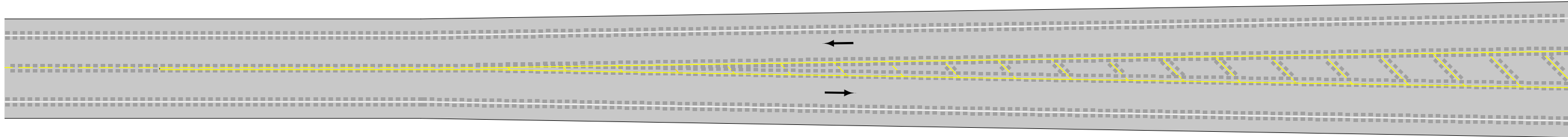
MOD. PM-115

MODIFICATIONS: Modified ELW, and ELY to match pm-110.
Added double yellow at left turn lane.

GROOVING FOR
LINE TYPES

06-2026

SHEET 3 of 4



PAINTED MEDIAN

MOD. PM-115

MODIFICATIONS: Modified ELW. and ELY to match pm-110.
Added double yellow at left turn lane.

GROOVING FOR
LINE TYPES

06-2026

SHEET 4 of 4

Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲ s). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ■ s). If both roadways have edge lines, continue edge lines around the returns.

For line information, see PM-110.

For projects not on the Primary system the following substitutions may be made. See plan sheets for substitutions.

- ELW6 → ELW4
- BCY6 → BCY4
- NPY6 → NPY4
- DCY6 → DCY4

① Broken Centerline changes to No Passing Zone Line or Double Centerline if required by sight distance.

Possible Contract Item:
Pavement Marking Line Items

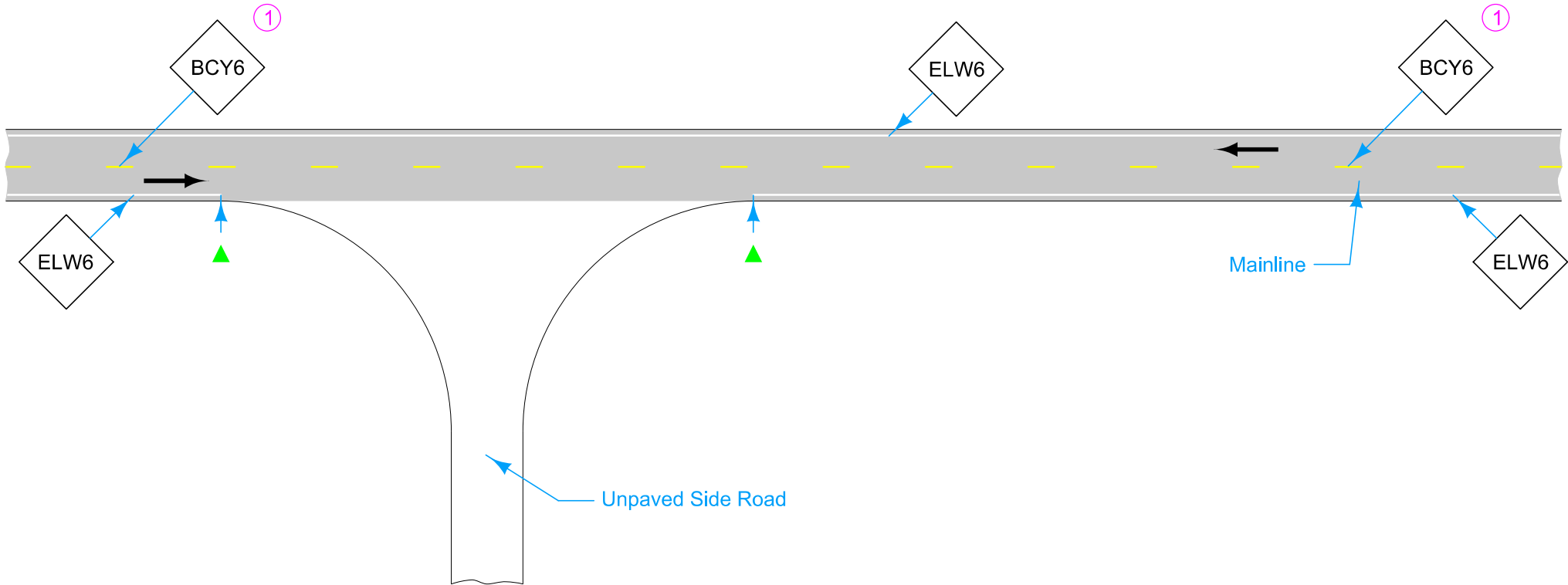
Possible Tabulation:
108-22

MOD. PM-420

MODIFICATIONS: Modified center line at paved side road, gap 50' either side of sideroad centerline.

TWO-LANE ROADWAY
WITH NO TURN LANES
(ONE-WAY STOP CONDITION)

06-2026 SHEET 1 of 2



LEGEND

←

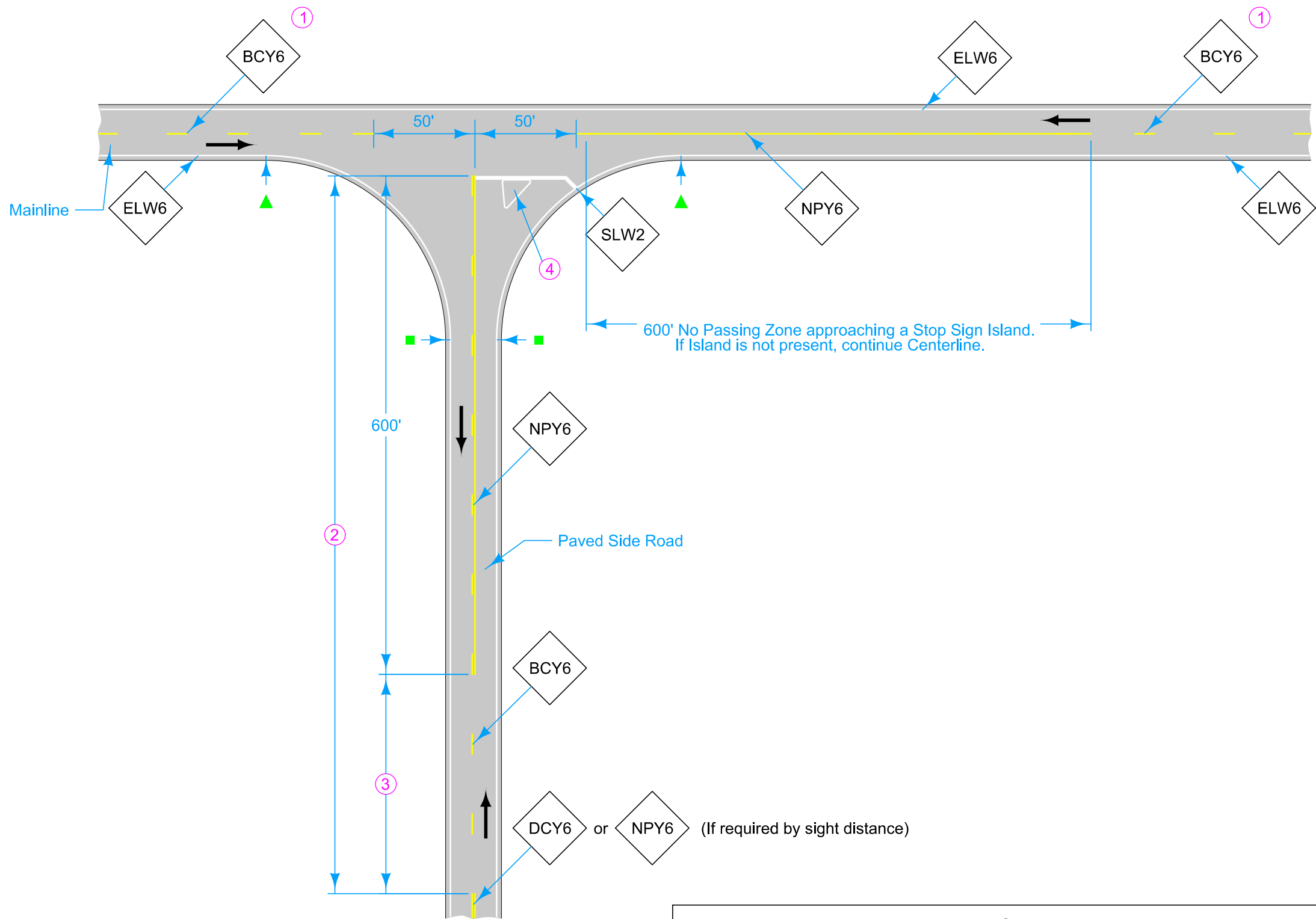
Direction of Traffic

BCY6

Broken Centerline (Yellow)

ELW6

Edge Line Right (White)



LEGEND			
	Direction of Traffic	ELW6	Edge Line Right (White)
BCY6	Broken Centerline (Yellow)	NPY6	No Passing Zone Line (Yellow)
DCY6	Double Centerline (Yellow)	SLW2	Stop Line (White)

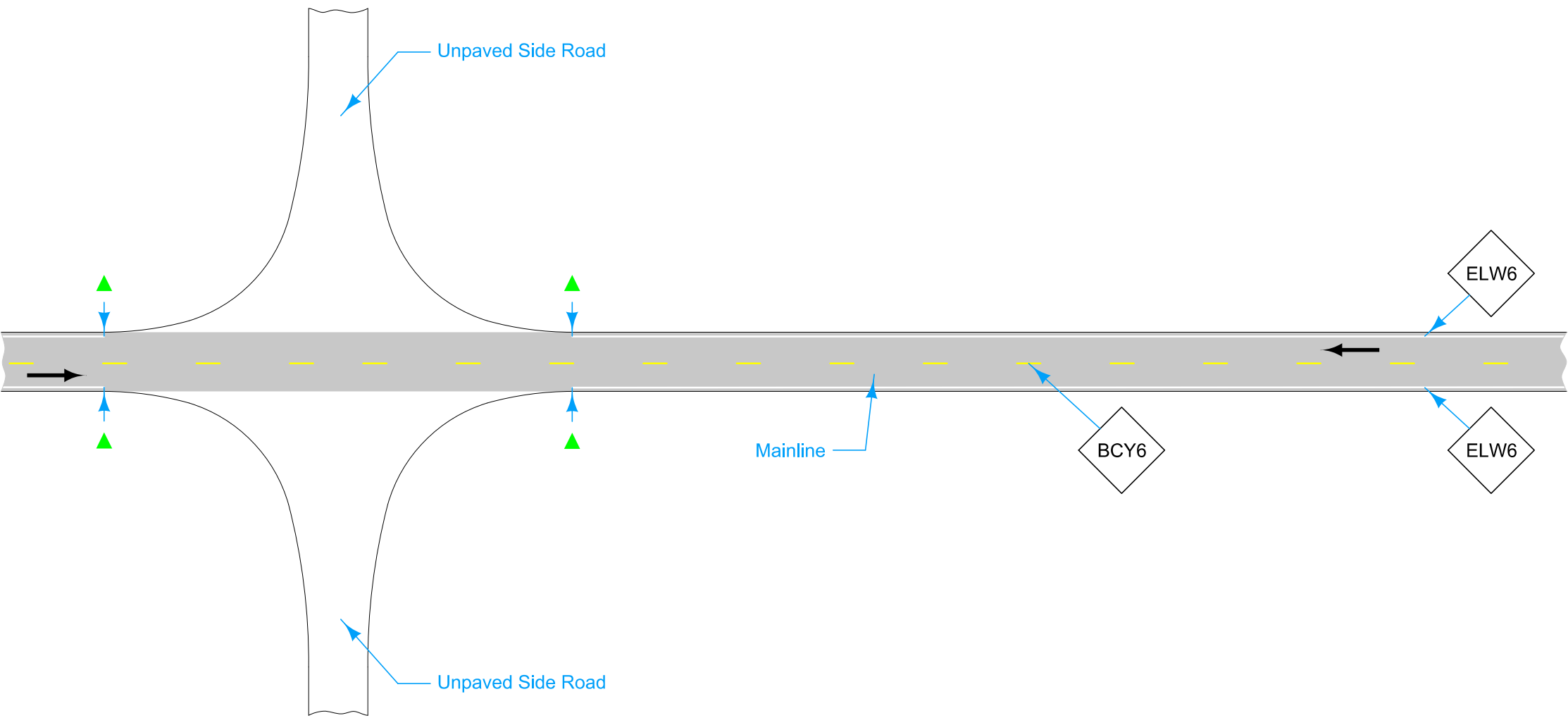
MOD. PM-420

MODIFICATIONS: Modified center line at paved side road, gap 50' either side of sideroad centerline.

**TWO-LANE ROADWAY
WITH NO TURN LANES
(ONE-WAY STOP CONDITION)**

06-2026

SHEET 2 of 2



Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲ s). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ■ s). If both roadways have edge lines, continue edge lines around the returns.

Terminate all mainline centerline markings at the edge of the thru lanes of a paved side road.

For line information, see PM-110.

For projects not on the Primary system the following substitutions may be made. See plan sheets for substitutions.

- | | | |
|------|---|------|
| ELW6 | → | ELW4 |
| BCY6 | → | BCY4 |
| NPY6 | → | NPY4 |
| DCY6 | → | DCY4 |

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-22

MOD. PM-520

MODIFICATIONS: Modified Centerline markings at paved side road, gap 50' either side of side road centerline.

**TWO-LANE ROADWAY
WITH NO TURN LANES
(TWO-WAY STOP CONDITION)**

06-2026 SHEET 1 of 3

←

Direction of Traffic

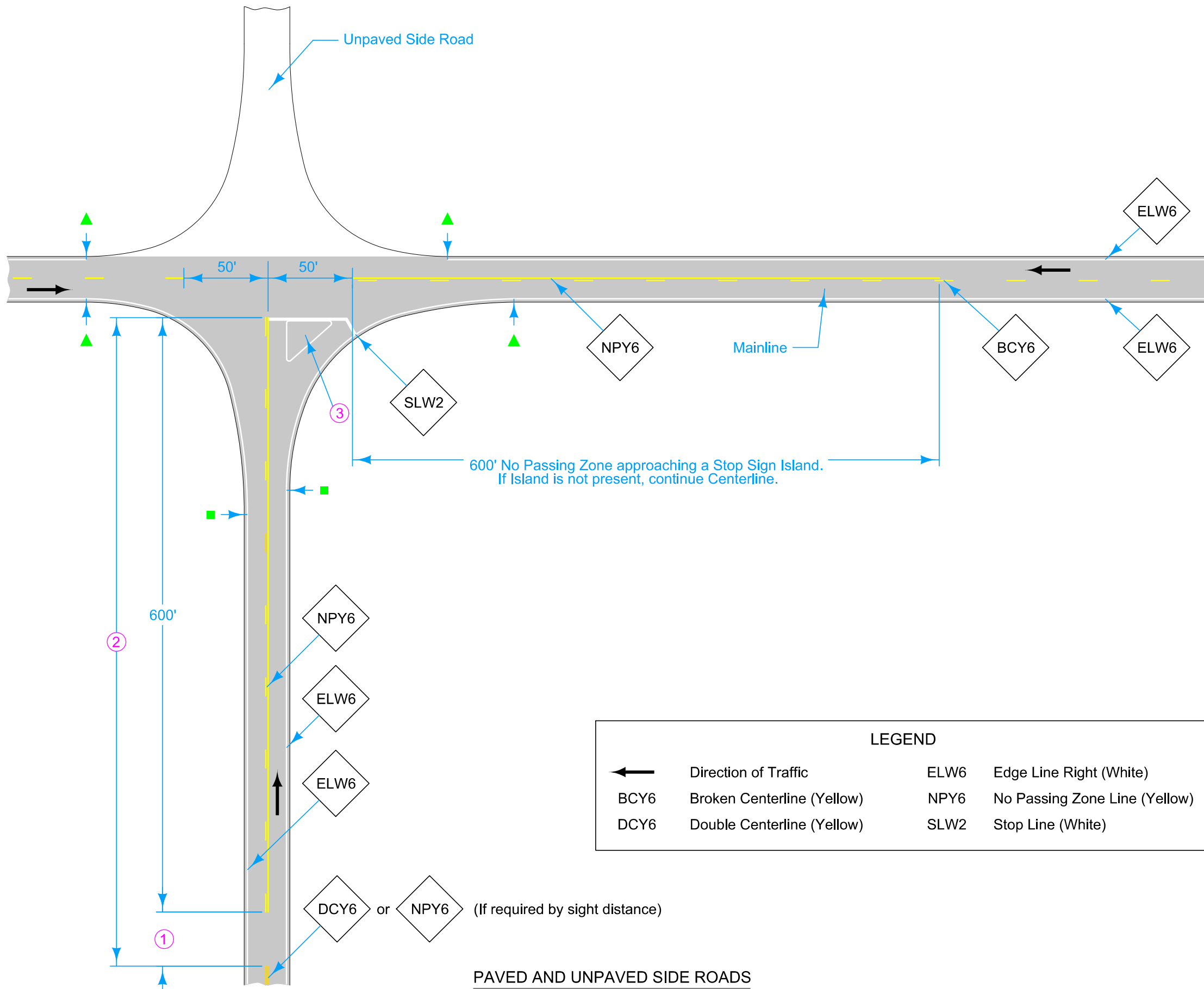
BCY6

Broken Centerline (Yellow)

ELW6

Edge Line Right (White)

UNPAVED SIDE ROADS



- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ For Island information, see PM-120.

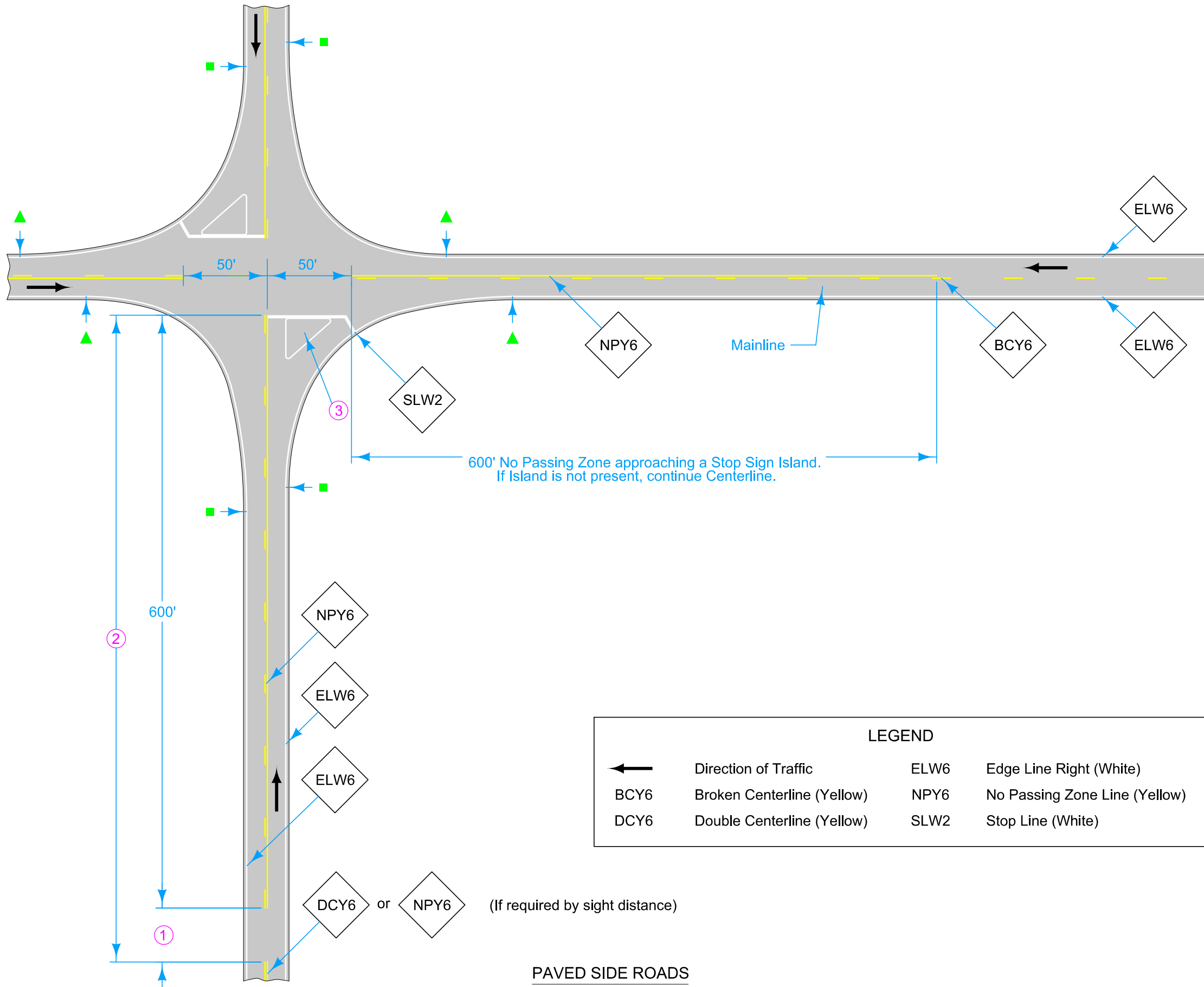
LEGEND			
←	Direction of Traffic	ELW6	Edge Line Right (White)
BCY6	Broken Centerline (Yellow)	NPY6	No Passing Zone Line (Yellow)
DCY6	Double Centerline (Yellow)	SLW2	Stop Line (White)

MOD. PM-520

MODIFICATIONS: Modified Centerline markings at paved side road, gap 50' either side of side road centerline.

**TWO-LANE ROADWAY
WITH NO TURN LANES
(TWO-WAY STOP CONDITION)**

06-2026SHEET 2 of 3



- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ For Island information, see PM-120.

LEGEND

	Direction of Traffic	ELW6	Edge Line Right (White)
BCY6	Broken Centerline (Yellow)	NPY6	No Passing Zone Line (Yellow)
DCY6	Double Centerline (Yellow)	SLW2	Stop Line (White)

DCY6 or NPY6 (If required by sight distance)

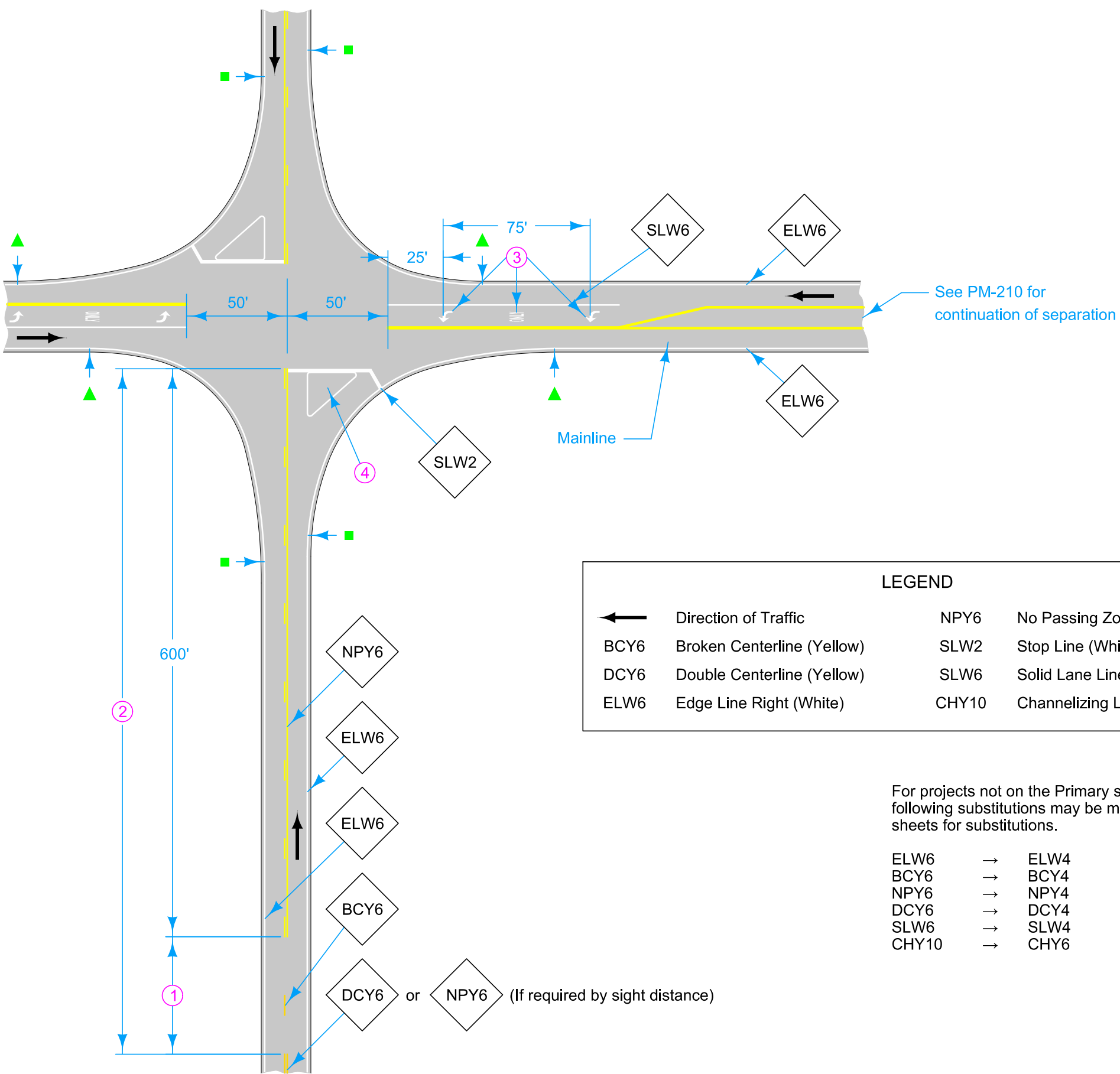
PAVED SIDE ROADS

MOD. PM-520

MODIFICATIONS: Modified Centerline markings at paved side road, gap 50' either side of side road centerline.

TWO-LANE ROADWAY
WITH NO TURN LANES
(TWO-WAY STOP CONDITION)

06-2026 SHEET 3 of 3



Roadways may or may not have edge lines. When the free flow roadway has edge lines but the stop controlled roadway does not, end edge lines at the end of returns (marked by ▲s). When the stop controlled roadway has edge lines but the free flow roadway does not, end edge lines at the end of returns (marked by ■s). If both roadways have edge lines, continue edge lines around the returns.

Terminate all mainline centerline markings at the edge of the thru lanes of the side road.

For line information, see PM-110.

For symbol and legend information, see PM-111.

- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ Symbol and Legend (when listed in 108-29).
- ④ For Island information, see PM-120.

Possible Contract Items:
Pavement Marking Line Items
Pavement Marking Symbol and Legend Items

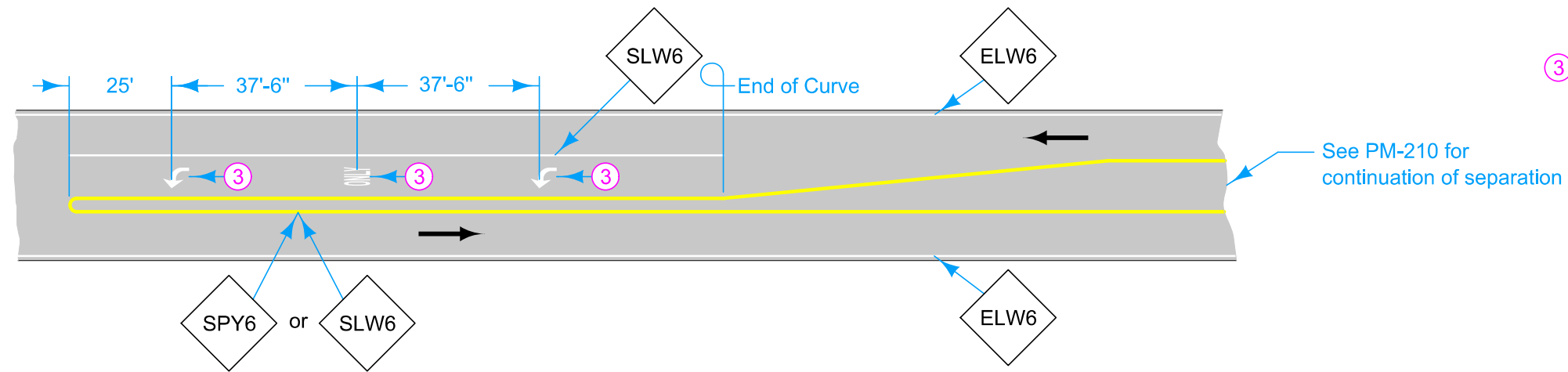
Possible Tabulations:
108-22
108-29

MOD. 522

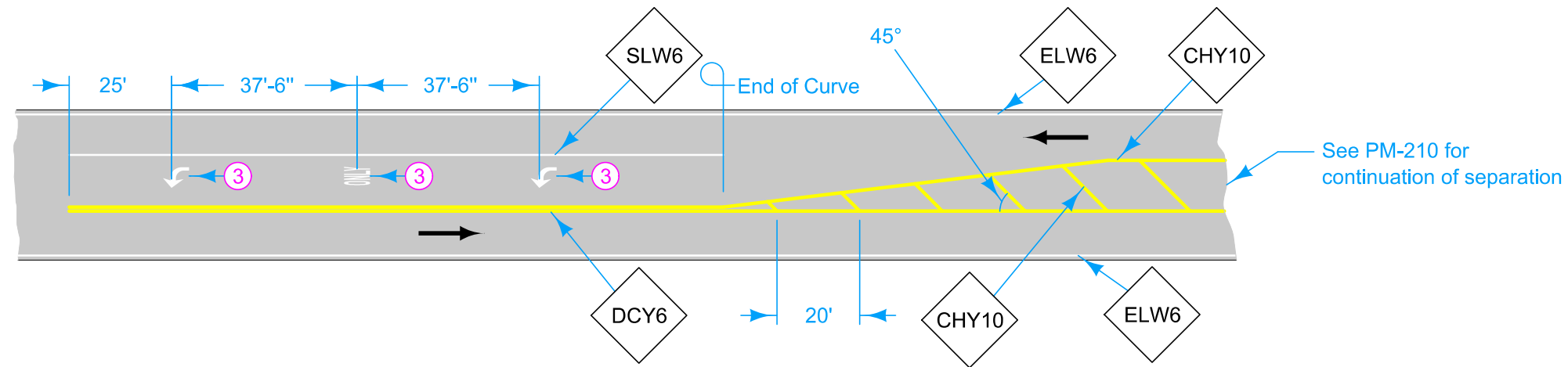
MODIFICATIONS: Modified centerline markings at intersection.
Gap markings 50' either side of side road centerline.

TWO-LANE ROADWAY WITH LEFT TURN LANES

063-2026 SHEET 1 of 2



CURBED CHANNELIZED ISLAND



PAINTED ISLAND

LEGEND

←	Direction of Traffic	NPY6	No Passing Zone Line (Yellow)
BCY6	Broken Centerline (Yellow)	SLW2	Stop Line (White)
DCY6	Double Centerline (Yellow)	SLW6	Solid Lane Line (White)
ELW6	Edge Line Right (White)	CHY10	Channelizing Line (Yellow)

MOD. 522

MODIFICATIONS: Modified centerline markings at intersection.
Gap markings 50' either sided of sideroad centerline.

TWO-LANE ROADWAY WITH LEFT TURN LANES

063-2026

SHEET 2 of 2