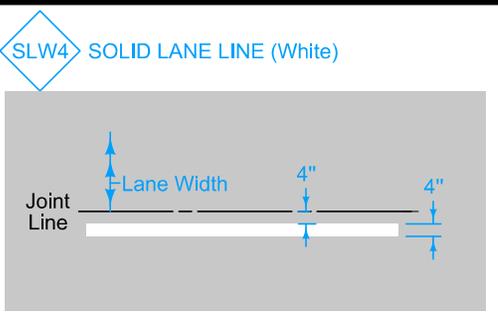
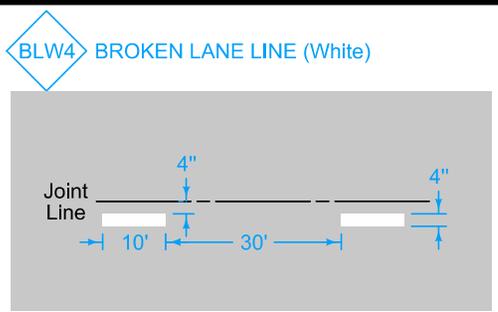
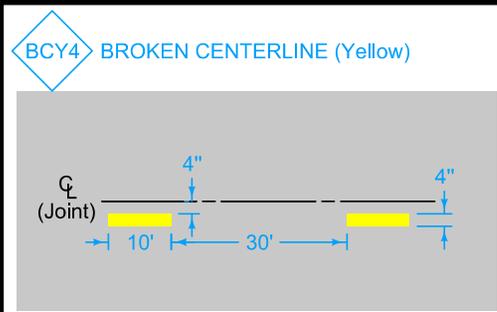


Pavement Markings

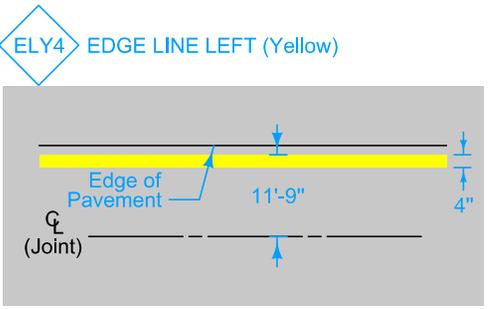
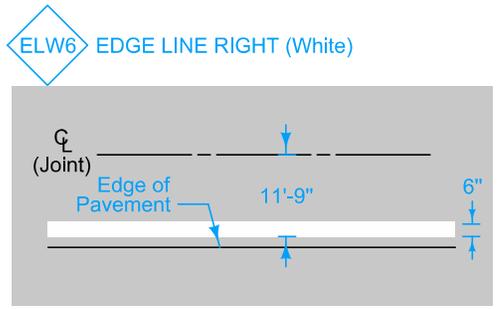
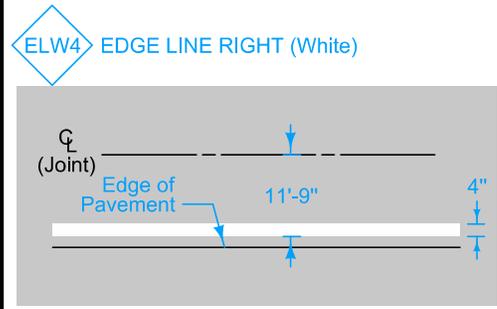
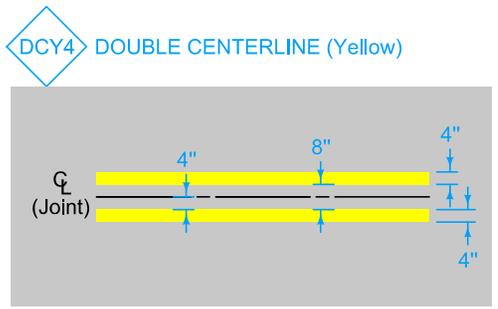
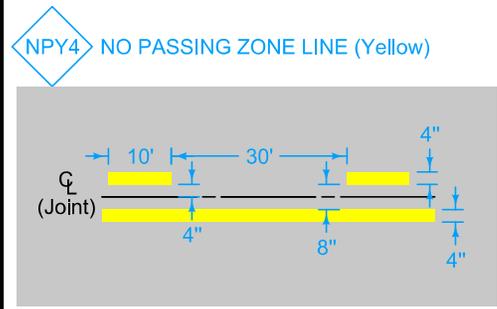
Pavement Markings

NO.	DATE	TITLE
PM-110	04-21-20	Line Types
PM-111	04-21-20	Symbols and Legends
PM-120	10-21-14	Stop Lines and Islands
PM-210	10-15-19	Separation in Two-Lane Roadway
PM-211	10-15-19	Separation in Four-Lane Roadway
PM-220	10-18-16	Passing Lane
PM-221	10-18-16	Climbing Lane
PM-222	10-15-19	Passing Lane (Super Two Highway)
PM-230	10-15-19	Transition at Abrupt Changes in Pavement Width
PM-240	04-21-15	Railroad Crossing on Two-Lane Roadway
PM-242	04-21-15	Railroad Crossing on Four-Lane Roadway
PM-310	04-21-20	Entrance and Exit Ramps
PM-420	10-15-19	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)
PM-520	10-15-19	Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)
PM-521	10-15-19	Two-Lane Roadway with Right Turn Lanes
PM-522	04-16-19	Two-Lane Roadway with Left Turn Lanes
PM-550	10-15-19	Two-Lane Roadway with Two-Way Left Turn Lane
PM-560	10-15-19	Divided Multi-Lane Roadway with no Turn Lanes
PM-561	10-15-19	Divided Multi-Lane Roadway with Right Turn Lanes
PM-562	10-15-19	Divided Multi-Lane Roadway with Left Turn Lanes
PM-620	10-15-19	Two-Lane Roadway with no Turn Lanes (Four-Way Stop Condition)
PM-650	10-15-19	Multi-Lane Roadway with Two-Way Left Turn Lane
PM-760	10-15-19	Divided Multi-Lane Roadway Median

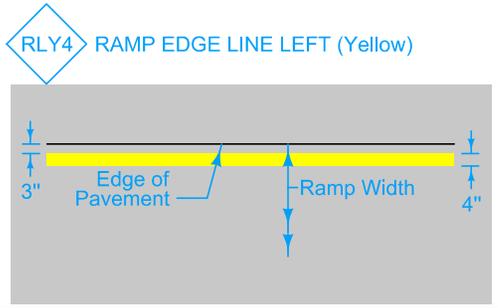
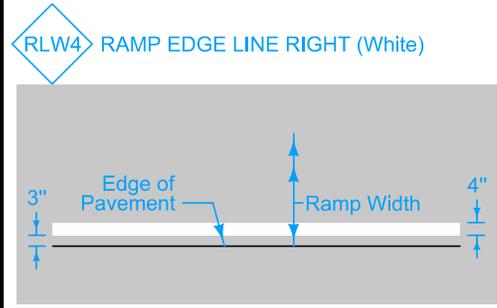
**DESIGNER
INFO**



Lane layouts shown are typical.
Centerlines and lane lines may be painted either side of centerline.
Drawings on sheets 1 and 2 are oriented to represent direction of traffic moving from left to right.

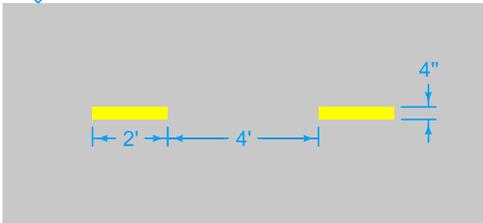


Possible Contract Item:
Pavement Marking Line Items
Possible Tabulation:
108-22

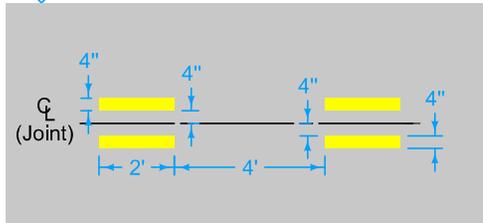


	REVISION
	3 04-21-20
STANDARD ROAD PLAN	PM-110
REVISIONS: Modified NPY4.	SHEET 1 of 3
 APPROVED BY DESIGN METHODS ENGINEER	
LINE TYPES	

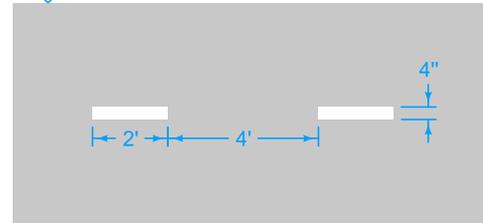
DLY4 DOTTED LINE (Yellow)



DDY4 DOUBLE DOTTED LINE (Yellow)



DLW4 DOTTED LINE (White)



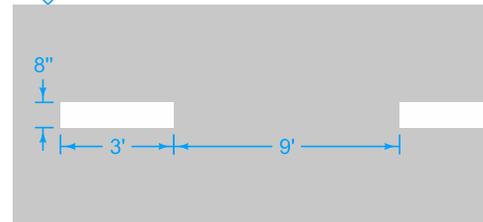
CHY8 CHANNELIZING LINE (Yellow)



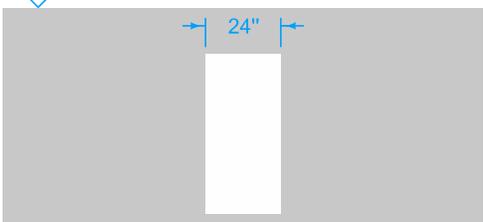
CHW8 CHANNELIZING LINE (White)



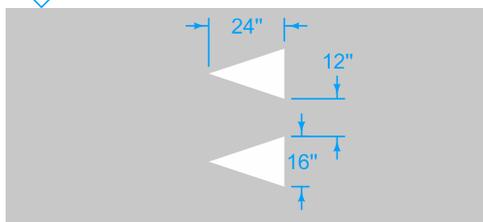
LDW8 LANE DROP (White)



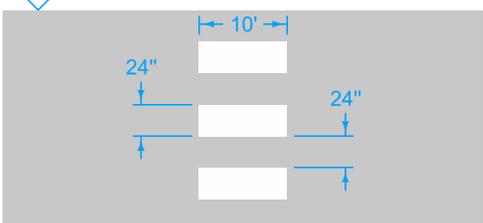
SLW2 STOP LINE (White)



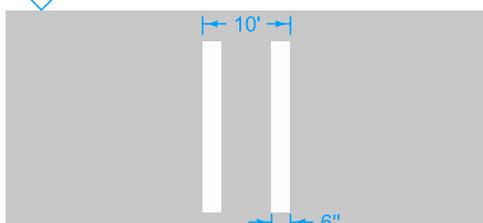
YLW2 YIELD LINE (White)



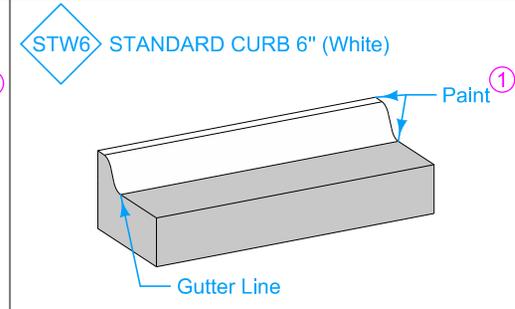
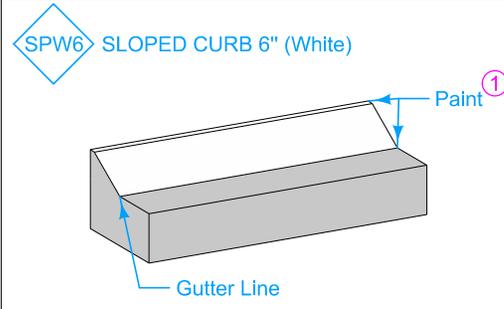
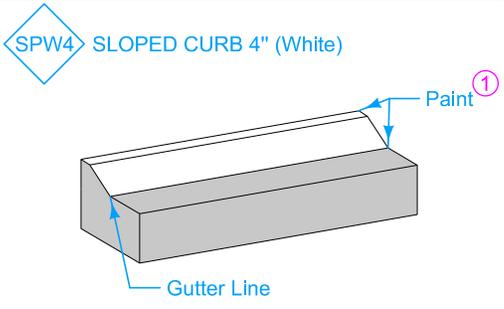
CBW6 CROSSWALK BAR (White)



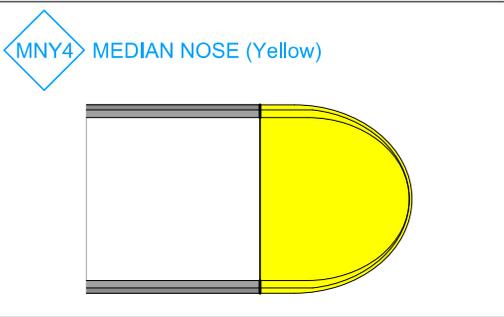
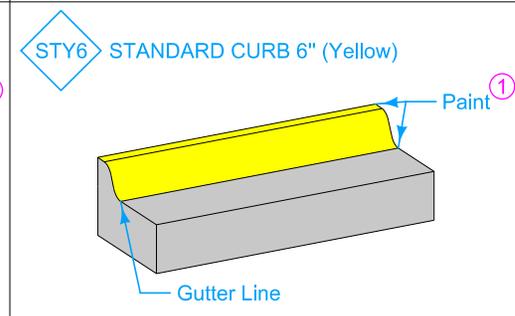
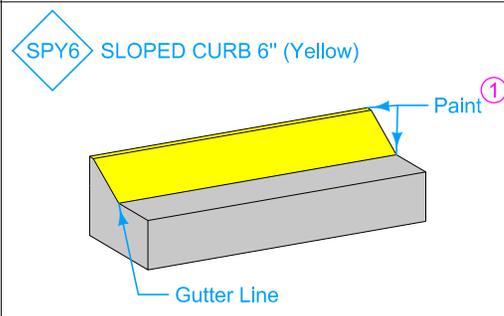
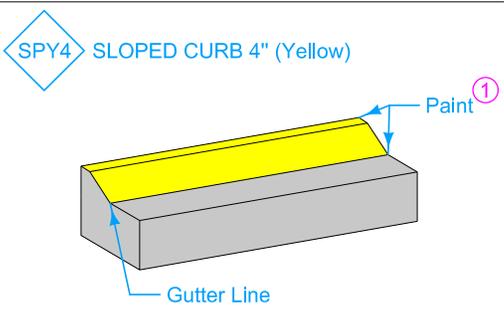
CLW6 CROSSWALK LINE (White)



	REVISION	
	3	04-21-20
STANDARD ROAD PLAN	PM-110	
REVISIONS: Modified NPV4.	SHEET 2 of 3	
APPROVED BY DESIGN METHODS ENGINEER		
LINE TYPES		

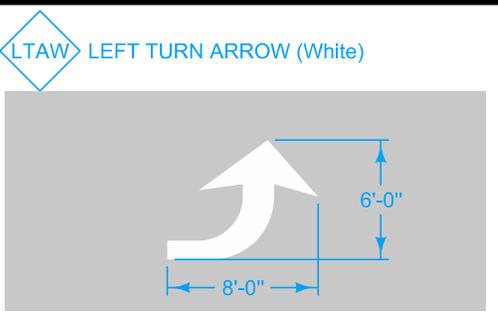
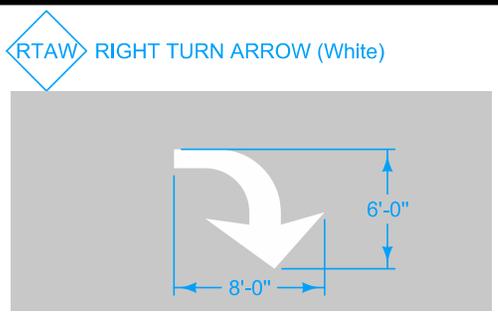
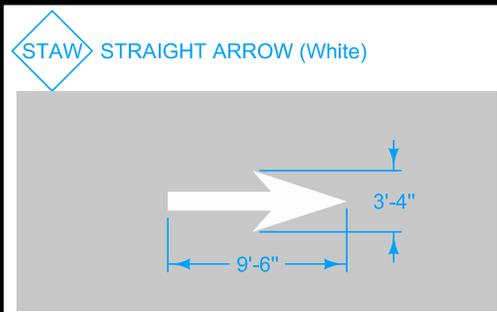


① Apply paint from back of curb to gutter line.



	REVISION
	3 04-21-20
STANDARD ROAD PLAN	PM-110
REVISIONS: Modified NPV4.	SHEET 3 of 3
APPROVED BY DESIGN METHODS ENGINEER	

LINE TYPES



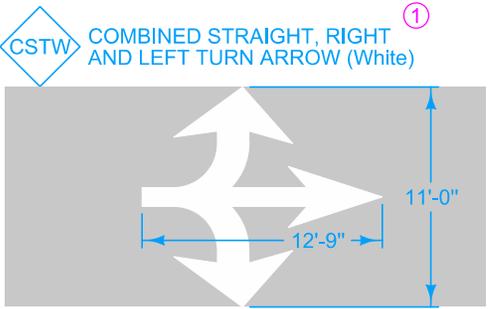
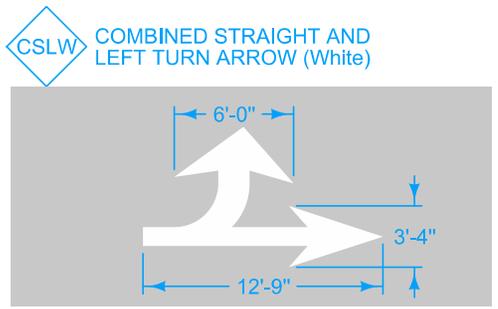
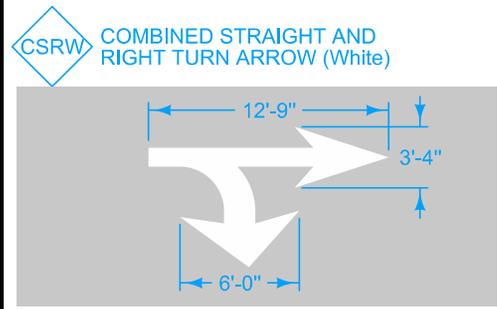
Layouts shown are for typical installations. Drawings are oriented to represent direction of traffic moving from left to right.

Center markings within the lane.

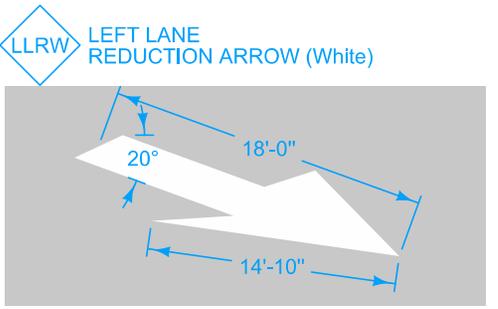
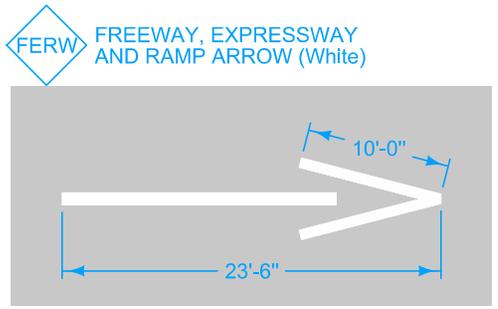
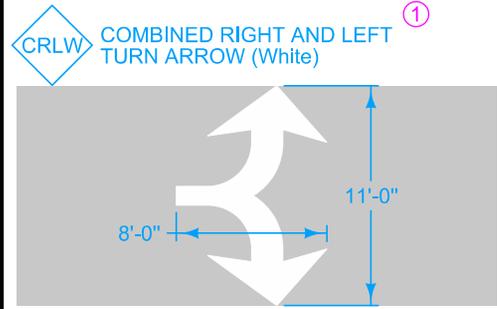
All dimensions shown are nominal. For proper proportion details, see current MUTCD Standard Highway Signs and Markings booklet.

Pavement word, symbol, and arrow markings are to be proportionally scaled to fit within the width of the facility upon which they are applied.

Except for the SCHOOL word marking, all markings are to be no more than one lane in width.

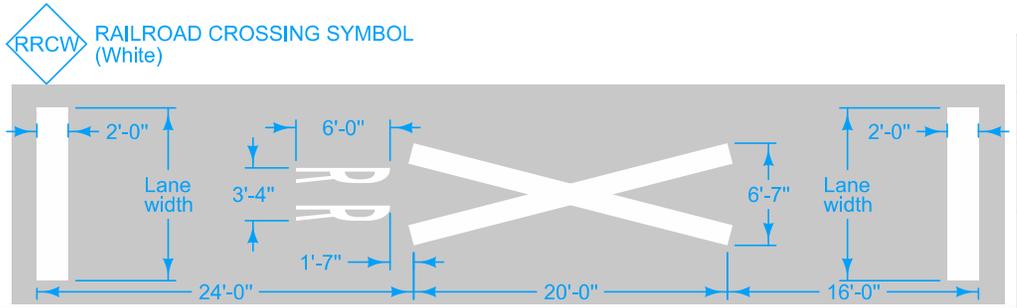
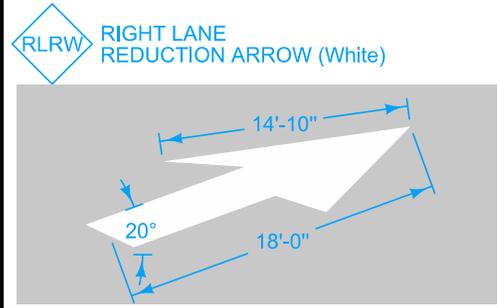


① Add template for Right Turn Arrow (RTAW) to Left Turn Arrow (LTAW) or Combined Straight and Left Turn Arrow (CSLW) to create new templates.



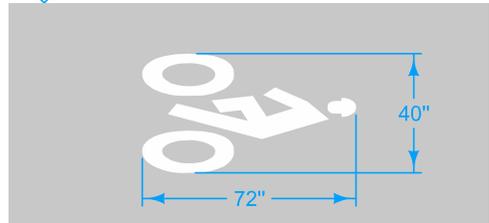
Possible Contract Item:
Pavement Marking Symbols and Legends Items

Possible Tabulation:
108-29

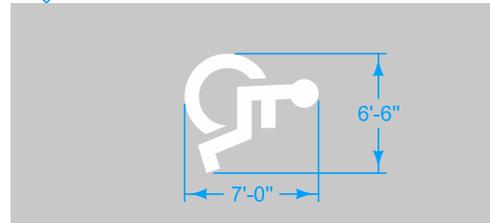


	REVISION
	4 04-21-20
STANDARD ROAD PLAN	PM-111
REVISIONS: Added SLSW.	SHEET 1 of 2
APPROVED BY DESIGN METHODS ENGINEER	
SYMBOLS AND LEGENDS	

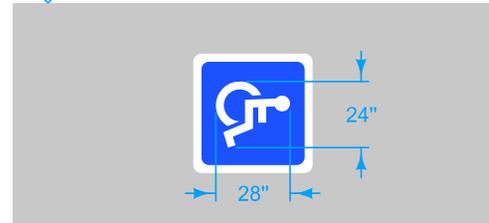
BLSW BIKE LANE SYMBOL (White)



WCSW WHEELCHAIR SYMBOL (White)

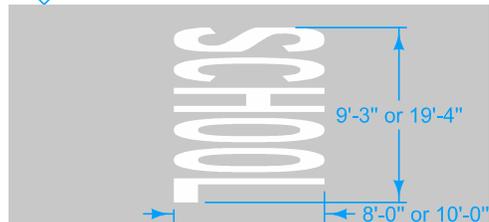


WPSB WHEELCHAIR PARKING SYMBOL (Blue)

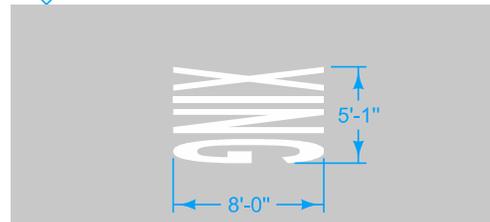


② When placed across one lane, use the smaller dimensions shown. When placed across two lanes, use the larger dimensions shown.

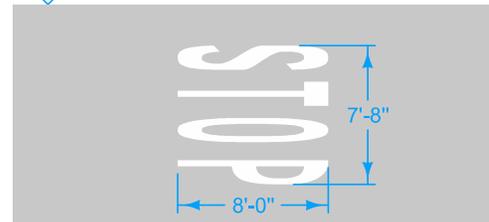
SCLW SCHOOL WORD MARKING (White) ②



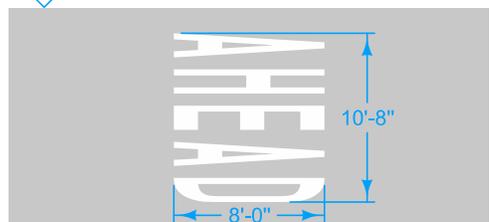
XNGW XING WORD MARKING (White)



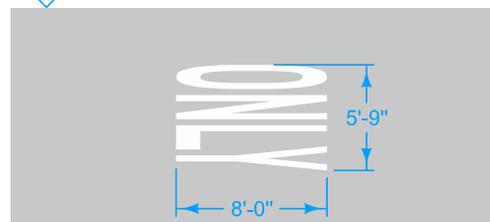
STPW STOP WORD MARKING (White)



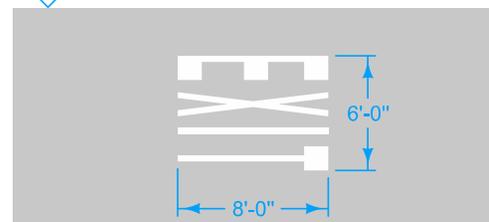
AHDW AHEAD WORD MARKING (White)



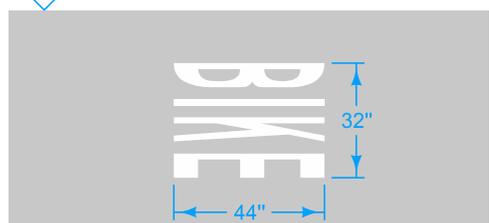
ONLW ONLY WORD MARKING (White)



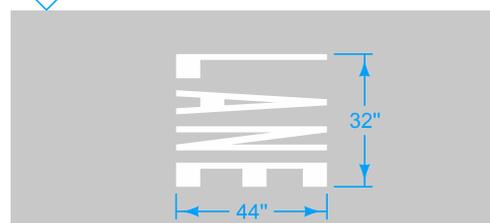
XITW EXIT WORD MARKING (White)



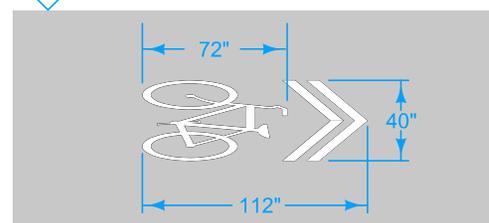
BIKW BIKE WORD MARKING (White)



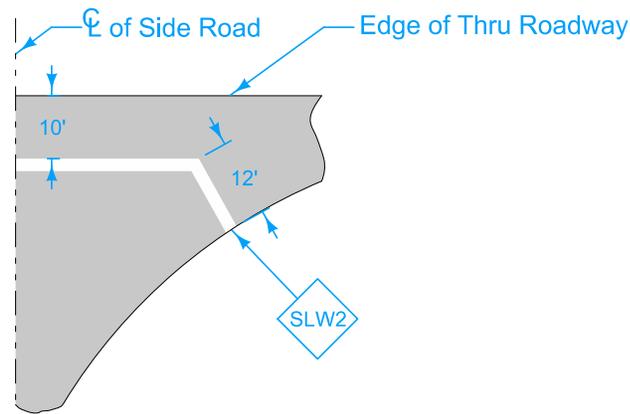
LANW LANE WORD MARKING (White)



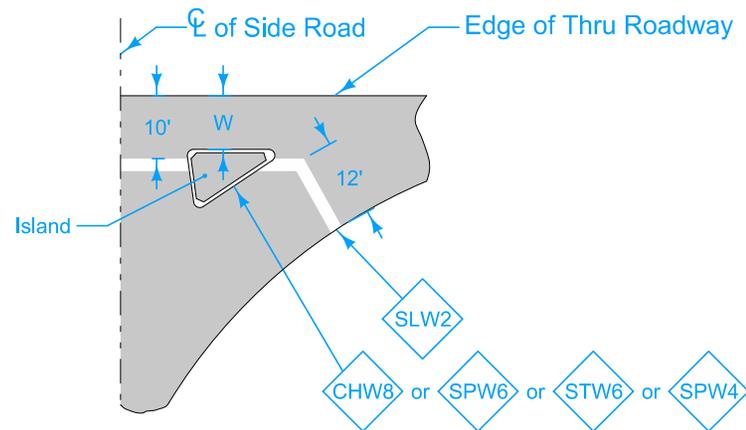
SLSW SHARED LANE SYMBOL (White)



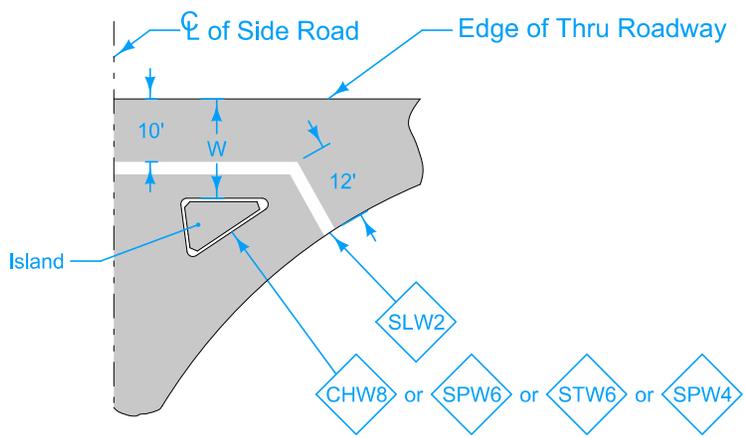
IOWA DOT	REVISION
	4 04-21-20
	STANDARD ROAD PLAN
	PM-111
REVISIONS: Added SLSW.	SHEET 2 of 2
APPROVED BY DESIGN METHODS ENGINEER	
SYMBOLS AND LEGENDS	



CASE 'A'
NO ISLAND



CASE 'B'
ISLAND AND $W < 10$ FT.



CASE 'C'
ISLAND AND $W \geq 10$ FT.

LEGEND	
CHW8	Channelizing Line (White)
SLW2	Stop Line (White)
SPW6	Sloped Curb 6" (White)
STW6	Standard Curb 6" (White)
SPW4	Sloped Curb 4" (White)

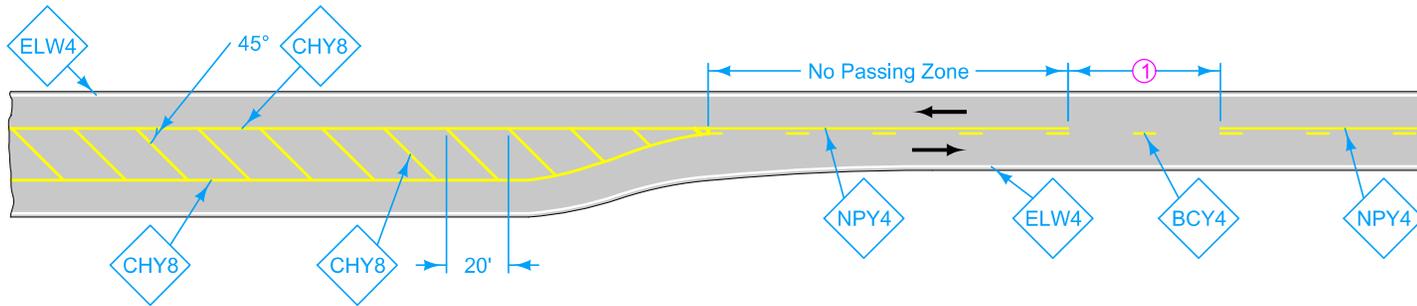
Place Stop Line perpendicular to radius and parallel to Thru Roadway.
 For line information, see [PM-110](#).
 For Island information, see [PV-20](#).

Possible Contract Item:
 Pavement Marking Line Items
 Possible Tabulation:
 108-22

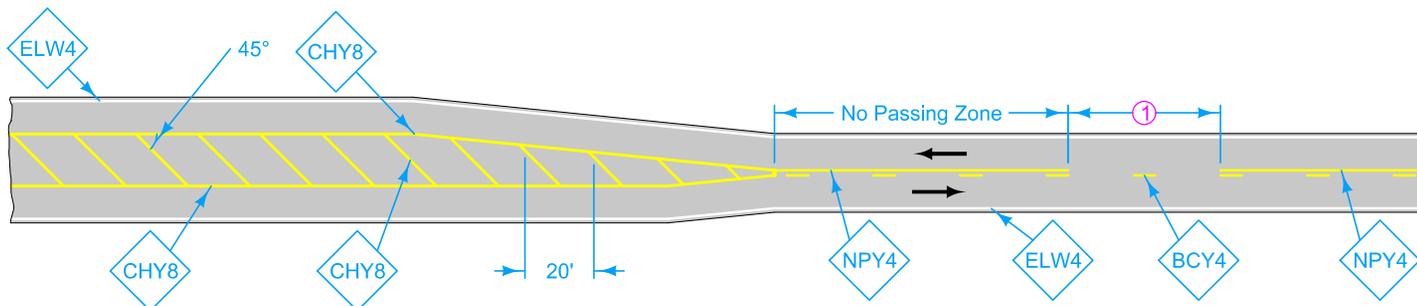
IOWA DOT	REVISION
	3 10-21-14
STANDARD ROAD PLAN	PM-120
SHEET 1 of 1	
REVISIONS: Added CHW8 to Case 'B' and 'C'.	
APPROVED BY DESIGN METHODS ENGINEER	
STOP LINES AND ISLANDS	

For line information, see [PM-110](#).

① If less than 400 feet, join solid yellow lines.



OFFSET ALL TO ONE SIDE



OFFSET SPLIT BETWEEN SIDES

FLUSH MEDIANS

Speed (mph)	Length of No Passing Zone
20	300'
25	300'
30	360'
35	360'
40	480'
45	480'
50	600'
55	600'

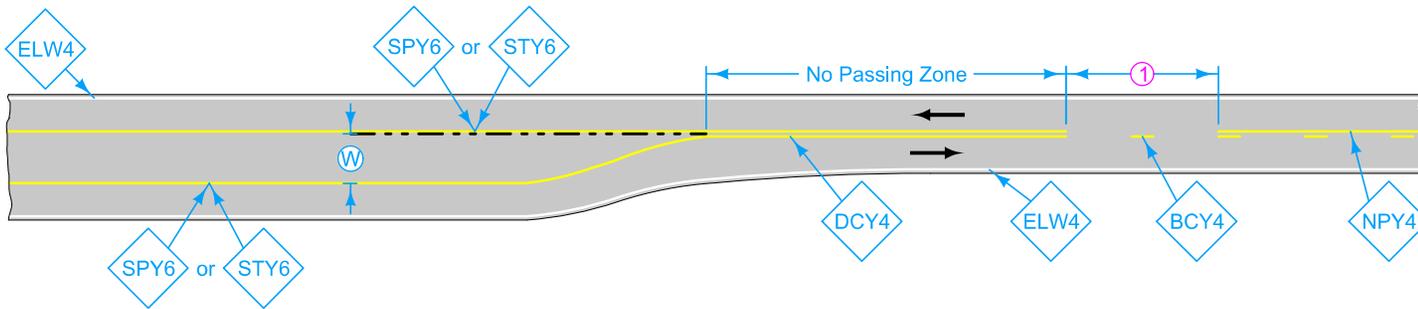
LEGEND

---	Centerline Extension	CHY8	Channelizing Line (Yellow)
←	Direction of Traffic	ELW4	Edge Line Right (White)
BCY4	Broken Centerline (Yellow)	NPY4	No Passing Zone Line (Yellow)

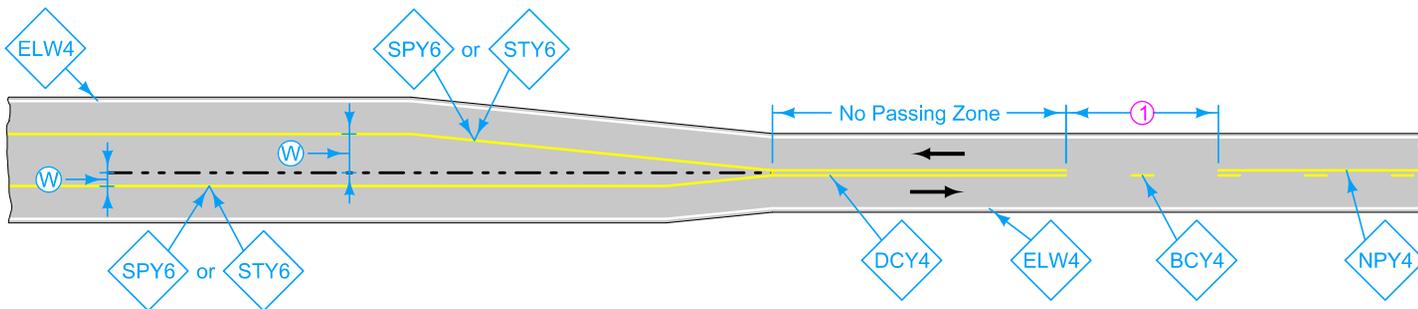
Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-22](#)

	REVISION
	2 10-15-19
STANDARD ROAD PLAN	PM-210
REVISIONS: New logo.	SHEET 1 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
SEPARATION IN TWO-LANE ROADWAY	



OFFSET W ALL TO ONE SIDE ^②



OFFSET W SPLIT BETWEEN SIDES ^②

RAISED MEDIANS

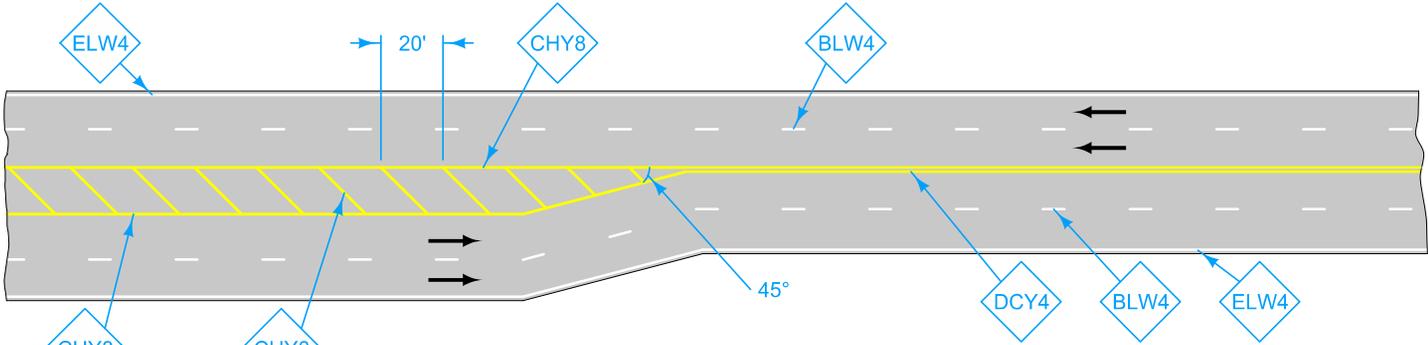
- ① If less than 400 feet, join solid yellow lines.
- ② The offset distance from centerline, W , can be either the entire width of the offset if the offset is all to one side, or it is the larger of the two partial offsets if the entire width of the offset is split between the two directions of traffic. Measure W from the midpoint of the centerline to the outside edge of the painted curb.

LEGEND			
---	Centerline Extension	ELW4	Edge Line Right (White)
←	Direction of Traffic	NPY4	No Passing Zone Line (Yellow)
BCY4	Broken Centerline (Yellow)	SPY6	Sloped Curb 6" (Yellow)
DCY4	Double Centerline (Yellow)	STY6	Standard Curb 6" (Yellow)

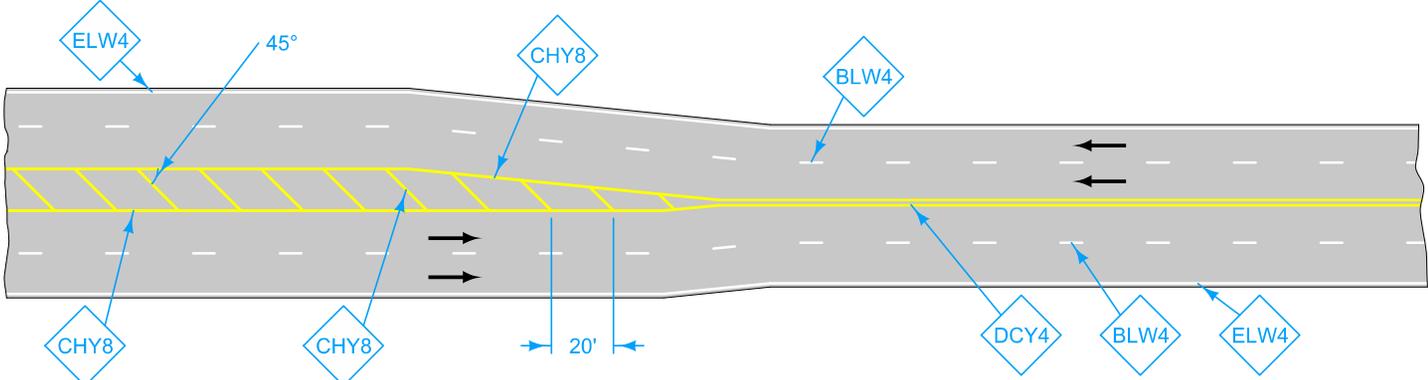
Length of No Passing Zone						
Speed (mph)	W = offset distance from centerline					
	6'	8'	10'	12'	14'	16'
25	200	200	210	250	300	340
35	250	330	410	490	580	660
45	540	720	900	1080	1260	1440
55	660	880	1100	1320	1540	1760
65	780	1040	1300	1560	1820	2080

	REVISION
	2 10-15-19
STANDARD ROAD PLAN	PM-210
REVISIONS: New logo.	SHEET 2 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
SEPARATION IN TWO-LANE ROADWAY	

For line information, see [PM-110](#).



OFFSET ALL TO ONE SIDE



OFFSET SPLIT BETWEEN SIDES

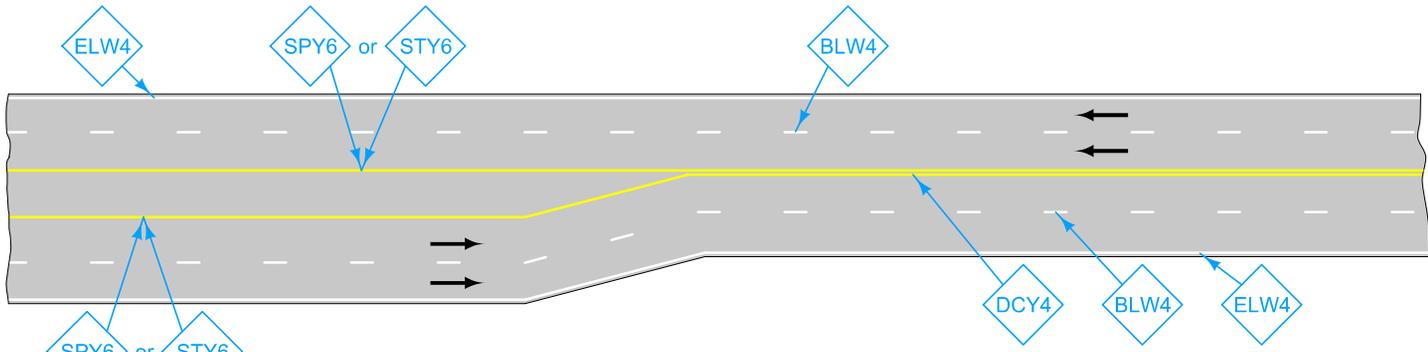
FLUSH MEDIANS

LEGEND	
←	Direction of Traffic
DCY4	Double Centerline (Yellow)
BLW4	Broken Lane Line (White)
ELW4	Edge Line Right (White)
CHY8	Channelizing Line (Yellow)

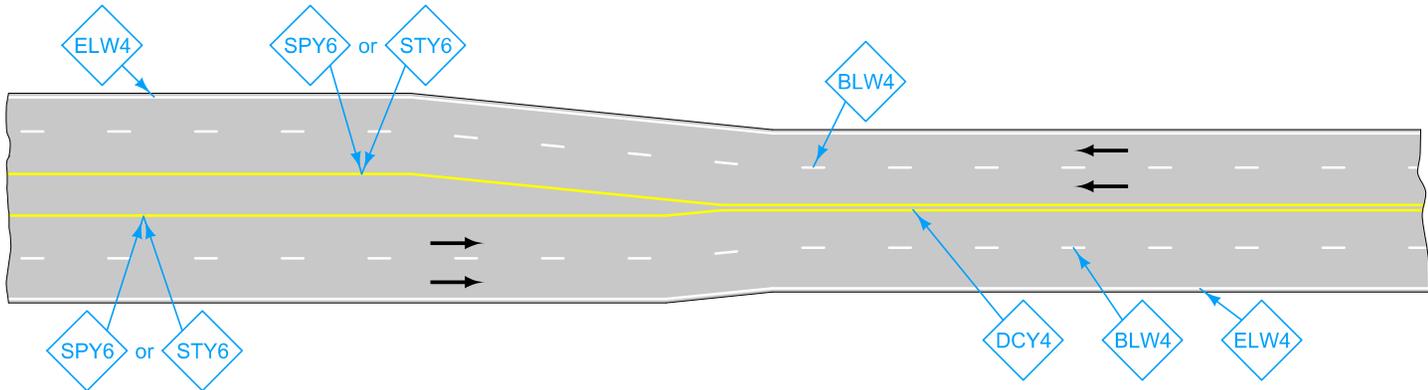
Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-22](#)

	REVISION
	2 10-15-19
STANDARD ROAD PLAN	PM-211
REVISIONS: New logo.	SHEET 1 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
SEPARATION IN FOUR-LANE ROADWAY	



OFFSET ALL TO ONE SIDE



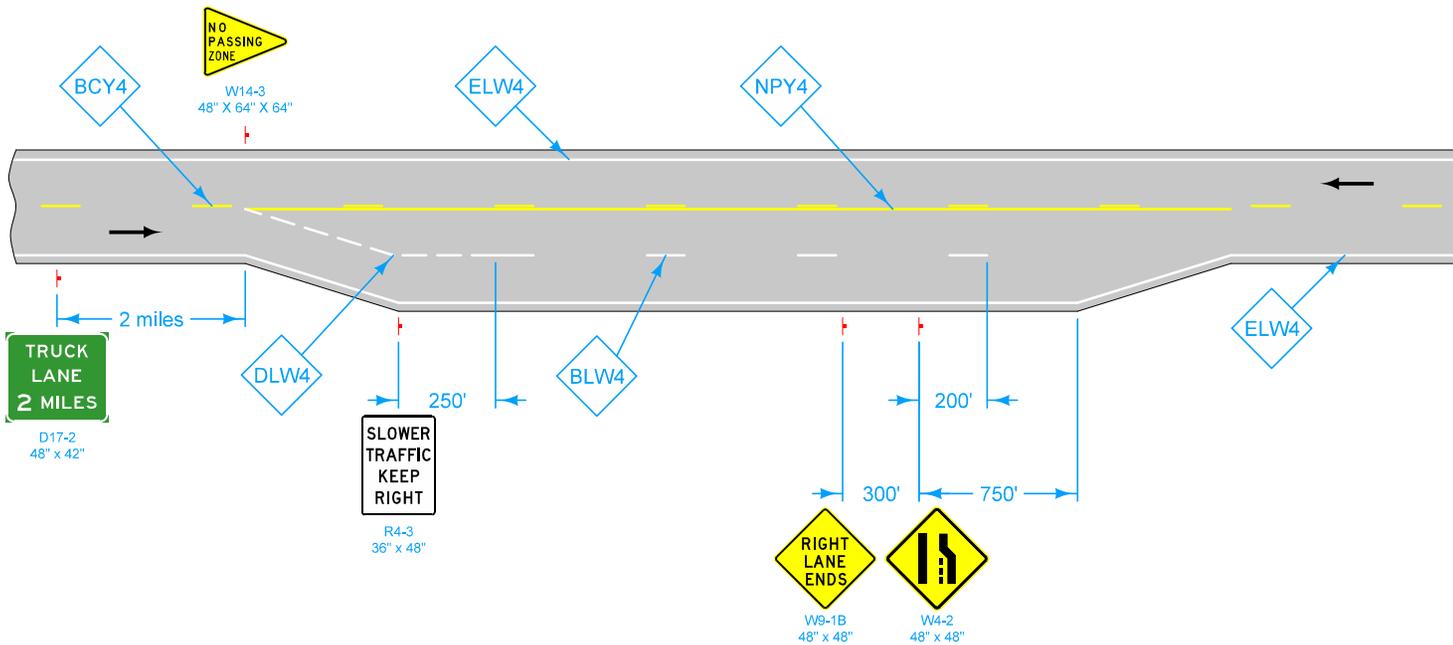
OFFSET SPLIT BETWEEN SIDES

RAISED MEDIANS

LEGEND			
←	Direction of Traffic	ELW4	Edge Line Right (White)
BLW4	Broken Lane Line (White)	SPY6	Sloped Curb 6" (Yellow)
DCY4	Double Centerline (Yellow)	STY6	Standard Curb 6" (Yellow)

	REVISION
	2 10-15-19
STANDARD ROAD PLAN	PM-211
REVISIONS: New logo.	SHEET 2 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
SEPARATION IN FOUR-LANE ROADWAY	

For line information, see [PM-110](#).



LEGEND

- ← Direction of Traffic
- BCY4 Broken Centerline (Yellow)
- BLW4 Broken Lane Line (White)
- ELW4 Edge Line Right (White)
- DLW4 Dotted Line (White)
- NPY4 No Passing Zone Line (Yellow)

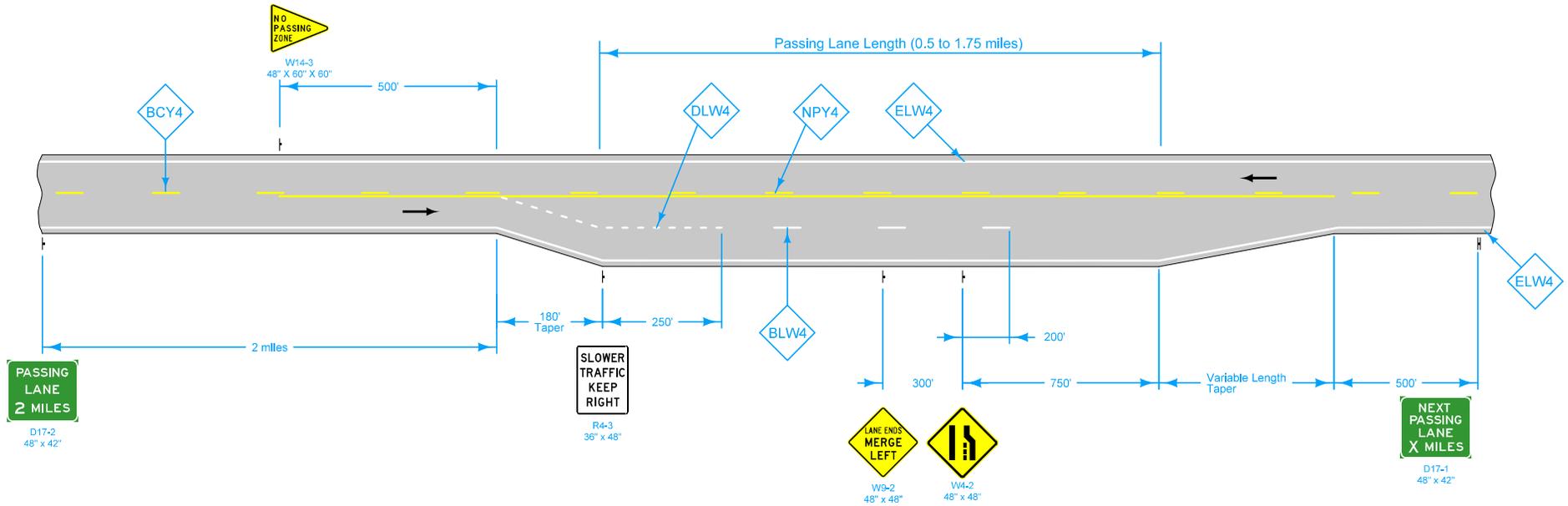
Possible Contract Item:
Pavement Marking Line Items
Type 'A' Signs

Possible Tabulation:
[108-22](#)

	REVISION	
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1	10-18-16	
STANDARD ROAD PLAN	PM-220	
SHEET 1 of 1		
REVISIONS: Changed No Passing Zone sign size from 48" x 60" x 60" to 48" x 64" x 64". Replaced old DOT logo with new DOT logo.		
APPROVED BY DESIGN METHODS ENGINEER		
PASSING LANE		

See [PM-110](#) for line information.

See [PM-111](#) for symbol and legend information.



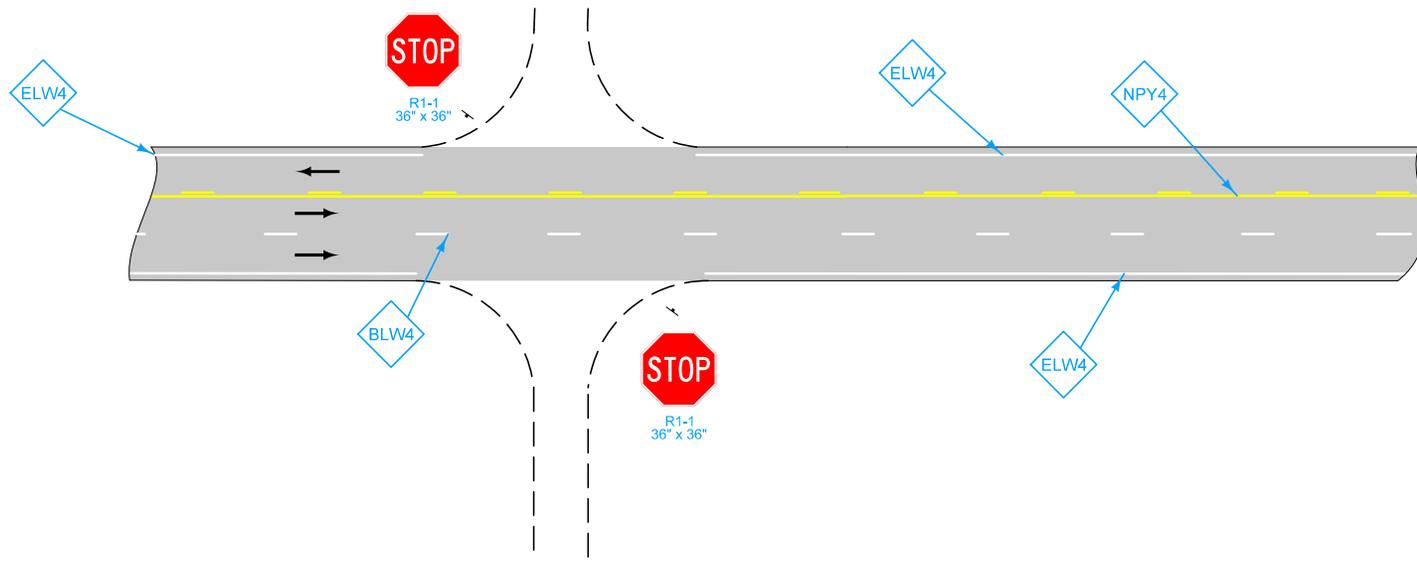
PASSING LANE

Possible Contract Items:
 Pavement Marking Line Items
 Pavement Marking Symbol and Legend Items
 Type 'A' Signs

Possible Tabulations:
[108-22](#)
[108-29](#)

LEGEND	
← Direction of Traffic	ELW4 Edge Line Right (White)
BCY4 Broken Centerline (Yellow)	DLW4 Dotted Line (White)
BLW4 Broken Lane Line (White)	NPY4 No Passing Zone Line (Yellow)

	REVISION
	New 10-15-19
STANDARD ROAD PLAN	PM-222
REVISIONS: New.	SHEET 1 of 4
APPROVED BY DESIGN METHODS ENGINEER	
PASSING LANE (SUPER TWO HIGHWAY)	



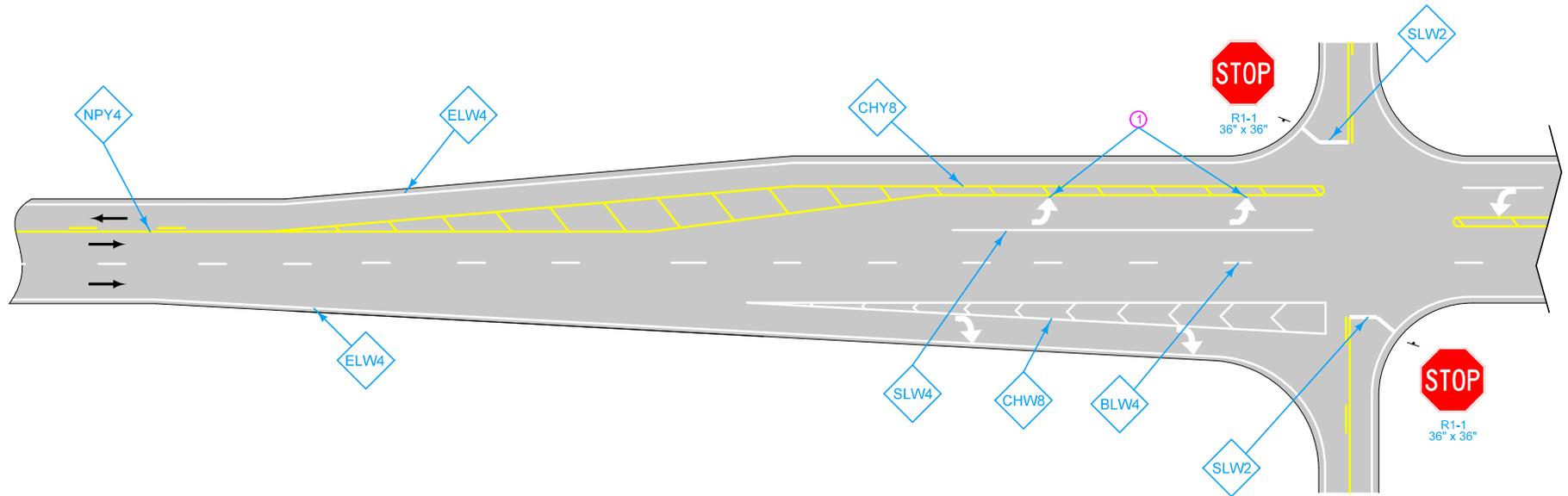
UNPAVED INTERSECTION

LEGEND

- ← Direction of Traffic
- BCY4 Broken Centerline (Yellow)
- BLW4 Broken Lane Line (White)
- ELW4 Edge Line Right (White)
- DLW4 Dotted Line (White)
- NPY4 No Passing Zone Line (Yellow)

	REVISION
	New 10-15-19
STANDARD ROAD PLAN	PM-222
REVISIONS: New.	SHEET 2 of 4
APPROVED BY DESIGN METHODS ENGINEER	
PASSING LANE (SUPER TWO HIGHWAY)	

① Symbol and Legend (when listed in 108-29)



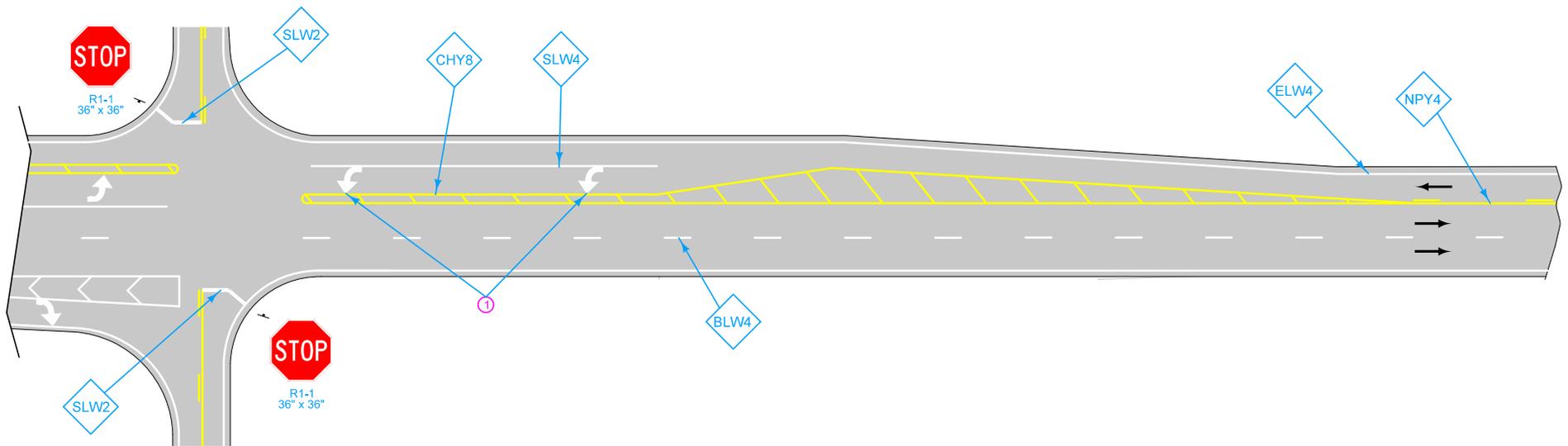
PAVED INTERSECTION

LEGEND

- ← Direction of Traffic
- BCY4 Broken Centerline (Yellow)
- BLW4 Broken Lane Line (White)
- CHW8 Channelizing Line (White)
- SLW4 Solid Lane Line (White)
- ELW4 Edge Line Right (White)
- DLW4 Dotted Line (White)
- NPY4 No Passing Zone Line (Yellow)
- CHY8 Channelizing Line (Yellow)
- SLW2 Stop Line (White)

	REVISION
	New 10-15-19
STANDARD ROAD PLAN	PM-222
REVISIONS: New.	SHEET 3 of 4
APPROVED BY DESIGN METHODS ENGINEER	
PASSING LANE (SUPER TWO HIGHWAY)	

① Symbol and Legend (when listed in 108-29)



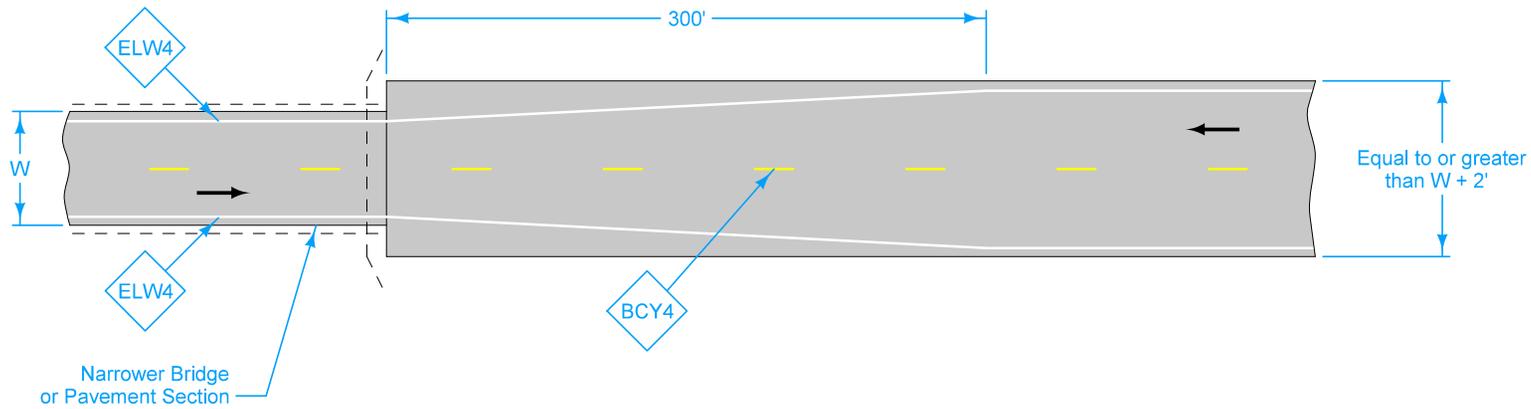
PAVED INTERSECTION

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
BLW4	Broken Lane Line (White)
CHW8	Channelizing Line (White)
SLW4	Solid Lane Line (White)
ELW4	Edge Line Right (White)
DLW4	Dotted Line (White)
NPY4	No Passing Zone Line (Yellow)
CHY8	Channelizing Line (Yellow)
SLW2	Stop Line (White)

	REVISION
	New 10-15-19
STANDARD ROAD PLAN	PM-222
REVISIONS: New.	SHEET 4 of 4
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
PASSING LANE (SUPER TWO HIGHWAY)	

For line information, see [PM-110](#).

On the approach to a narrower bridge or pavement section, place edge lines on a diagonal from a point 300 feet from the bridge to the gutter line of the bridge.



Narrower Bridge or Pavement Section

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
ELW4	Edge Line Right (White)

Possible Contract Item:
Pavement Marking Line Items

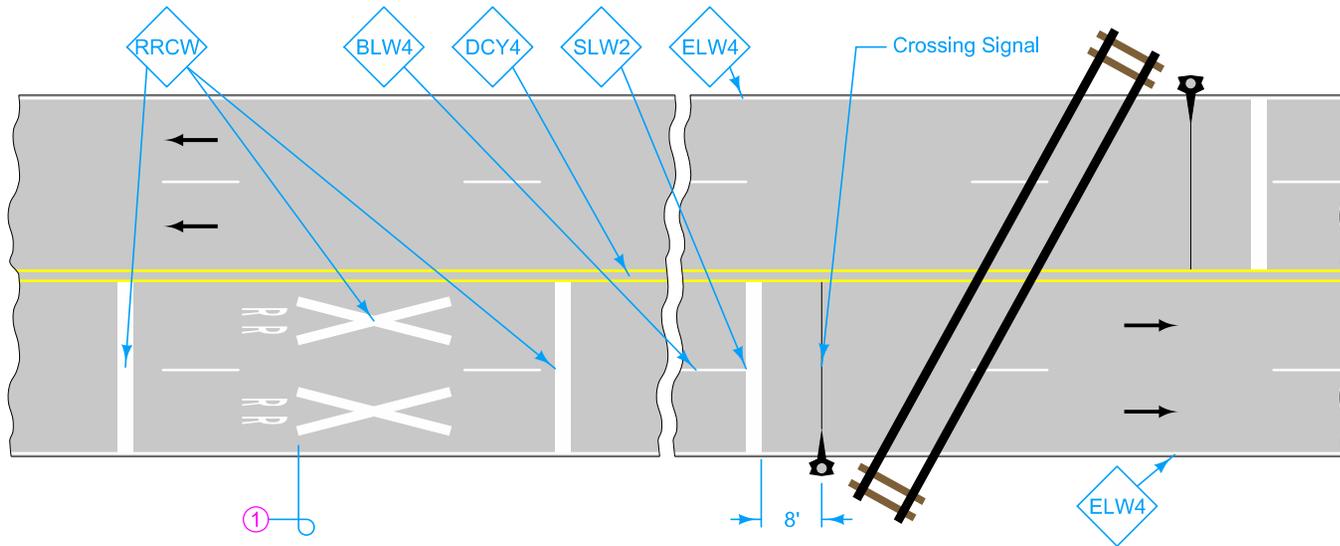
Possible Tabulation:
[108-22](#)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-230
REVISIONS: New Isgo.	SHEET 1 of 1
APPROVED BY DESIGN METHODS ENGINEER 	
TRANSITION AT ABRUPT CHANGES IN PAVEMENT WIDTH	

For line information, see [PM-110](#).

For symbol and legend information, see [PM-111](#).

① Location of Grade Crossing Advance Warning sign (W10-1). See [SI-241](#).



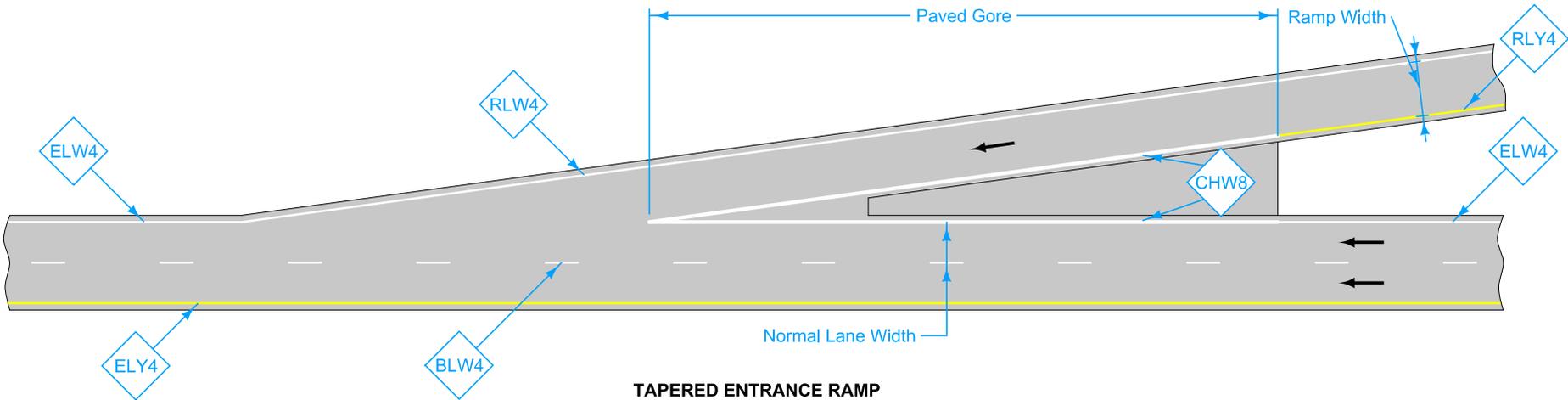
CROSSING WITH CROSSING SIGNAL

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

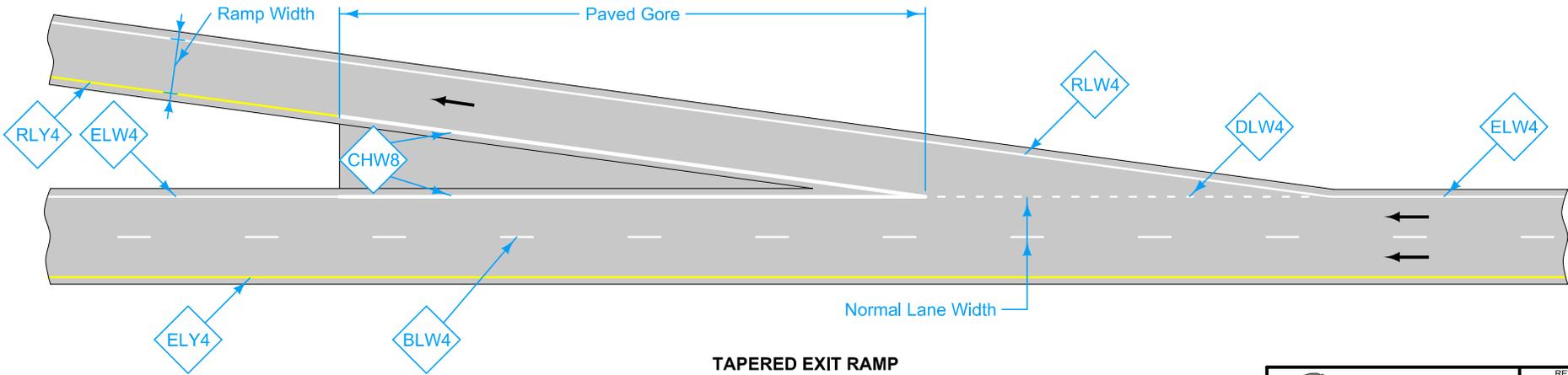
Possible Tabulations:
[108-22](#)
[108-29](#)

LEGEND	
←	Direction of Traffic
BLW4	Broken Lane Line (White)
DCY4	Double Center Line (Yellow)
ELW4	Edge Line Right (White)
RRCW	Railroad Crossing Symbol (White)
SLW2	Stop Line (White)

	REVISION
	2 04-21-15
STANDARD ROAD PLAN	PM-242
SHEET 1 of 1	
<small>REVISIONS: Changed designation for two transverse bands from SLW2 to RRCW and removed associated dimensions.</small>	
<small>APPROVED BY DESIGN METHODS ENGINEER</small>	
RAILROAD CROSSING ON FOUR-LANE ROADWAY	



TAPERED ENTRANCE RAMP



TAPERED EXIT RAMP

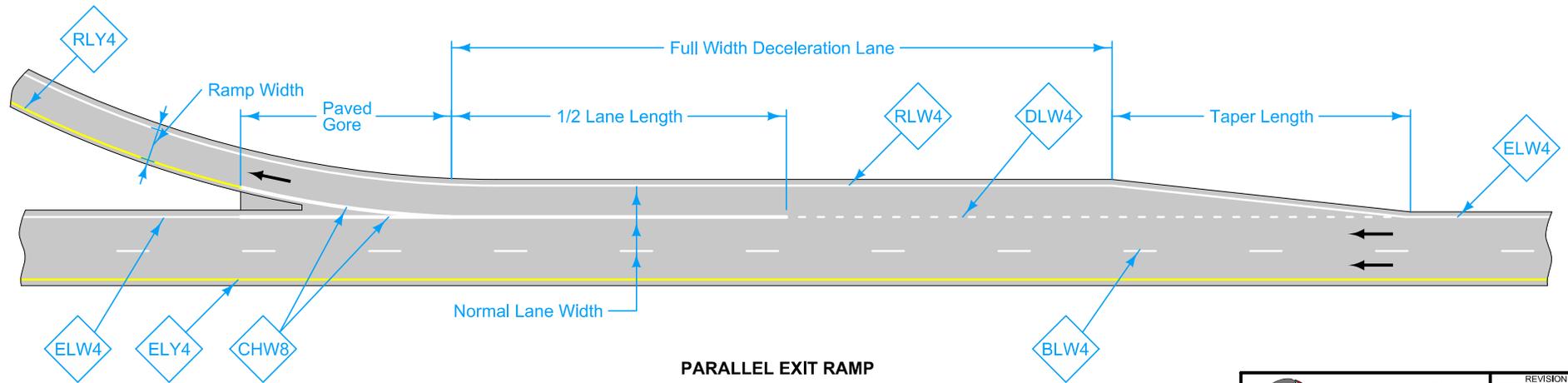
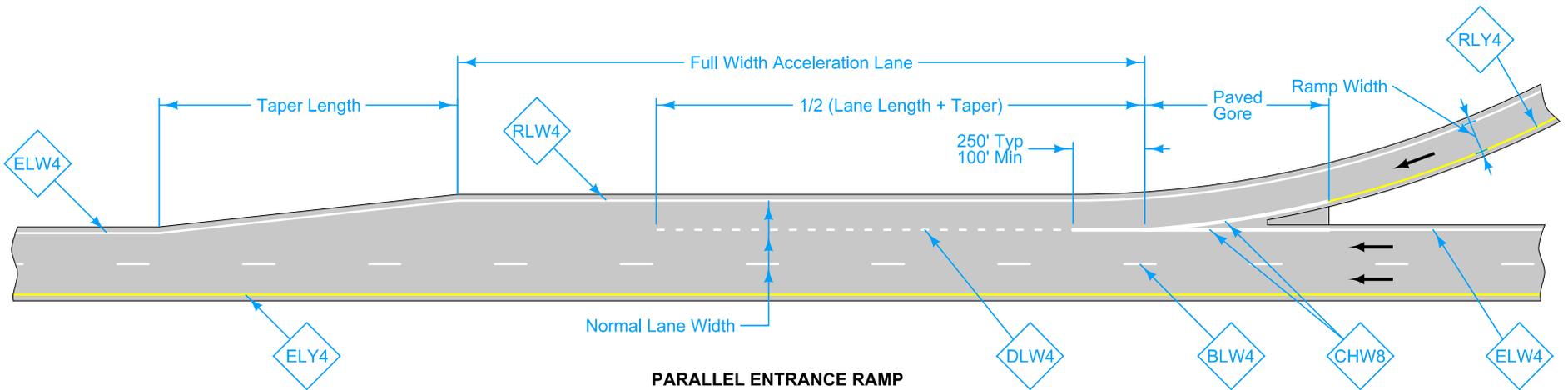
LEGEND			
←	Direction of Traffic	DLW4	Dotted Line (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
RLW4	Ramp Edge Line Right (White)	RLY4	Ramp Edge Line Left (Yellow)
		LDW4	Lane Drop (White)

For line information, see [PM-110](#).

Possible Contract Item:
Pavement Marking Line Items

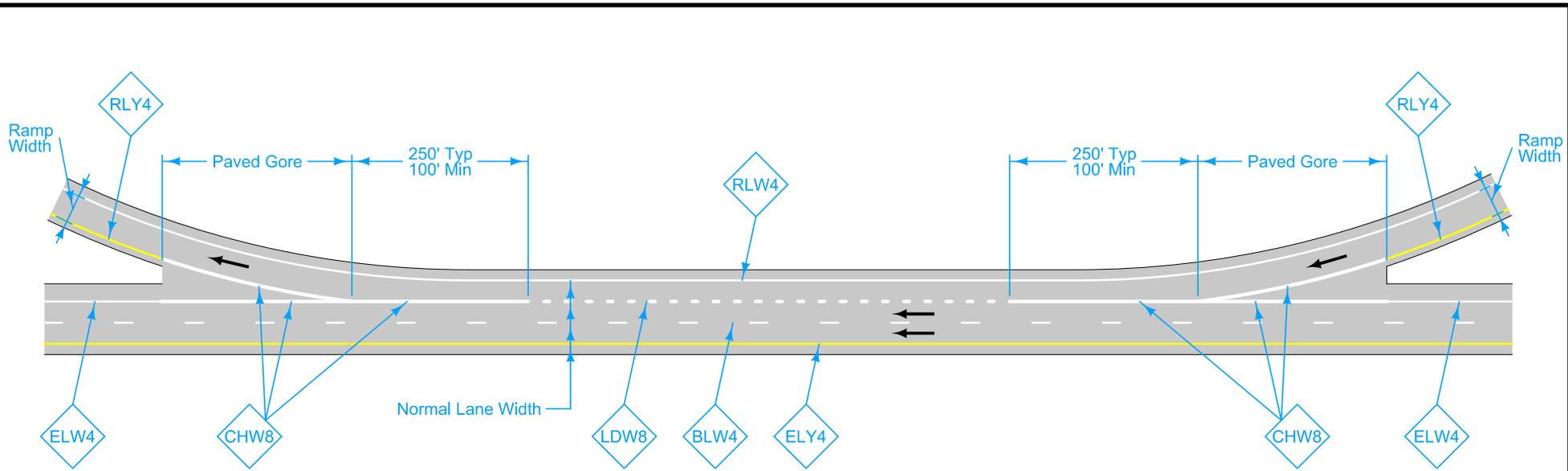
Possible Tabulation:
108-22

	REVISION
	4 04-21-20
	STANDARD ROAD PLAN
REVISIONS: Added two lane exit and entrance ramp tapers.	PM-310
APPROVED BY DESIGN METHODS ENGINEER	SHEET 1 of 7
ENTRANCE AND EXIT RAMPS	



LEGEND			
←	Direction of Traffic	DLW4	Dotted Line (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		RLW4	Ramp Edge Line Right (White)
		RLY4	Ramp Edge Line Left (Yellow)
		LDW8	Lane Drop (White)

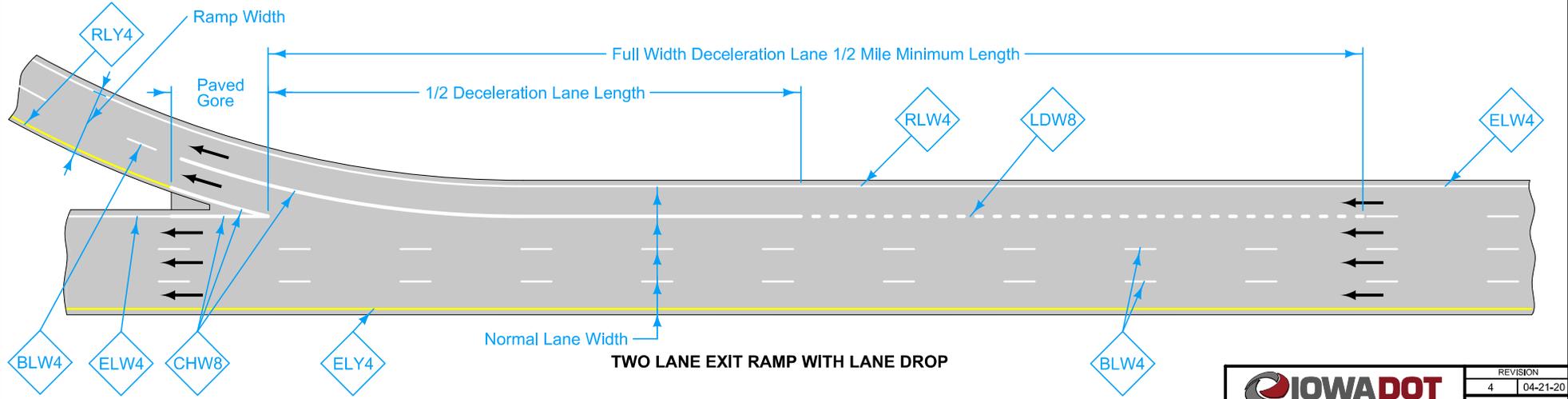
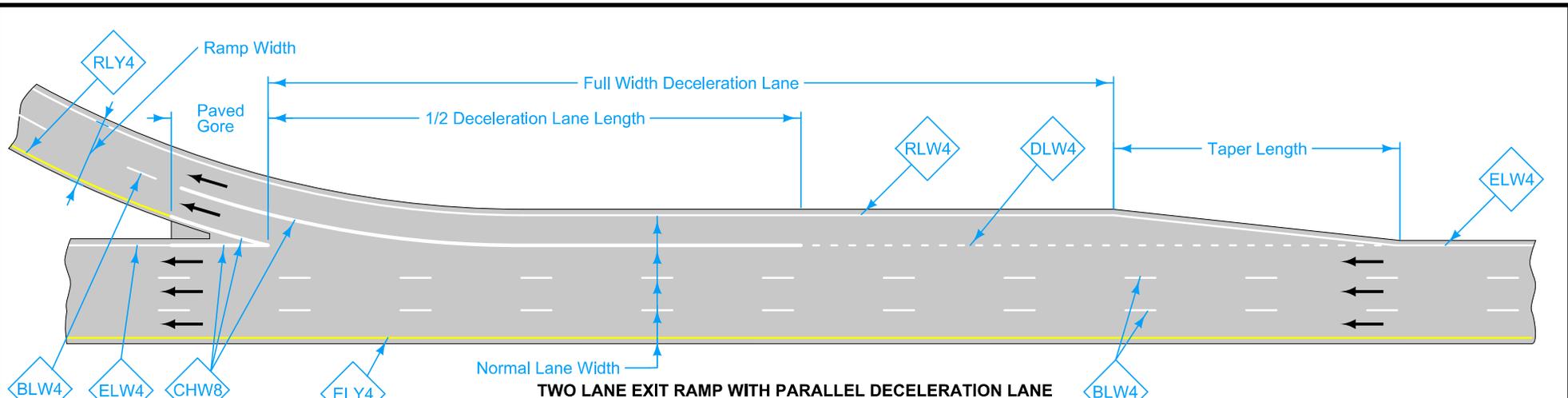
	REVISION
	4 04-21-20
	STANDARD ROAD PLAN
	PM-310
	SHEET 2 of 7
<small>REVISIONS: Added two lane exit and entrance ramp tapers.</small>	
<small>APPROVED BY DESIGN METHODS ENGINEER</small>	
ENTRANCE AND EXIT RAMPS	



AUXILLARY LANE BETWEEN RAMPS

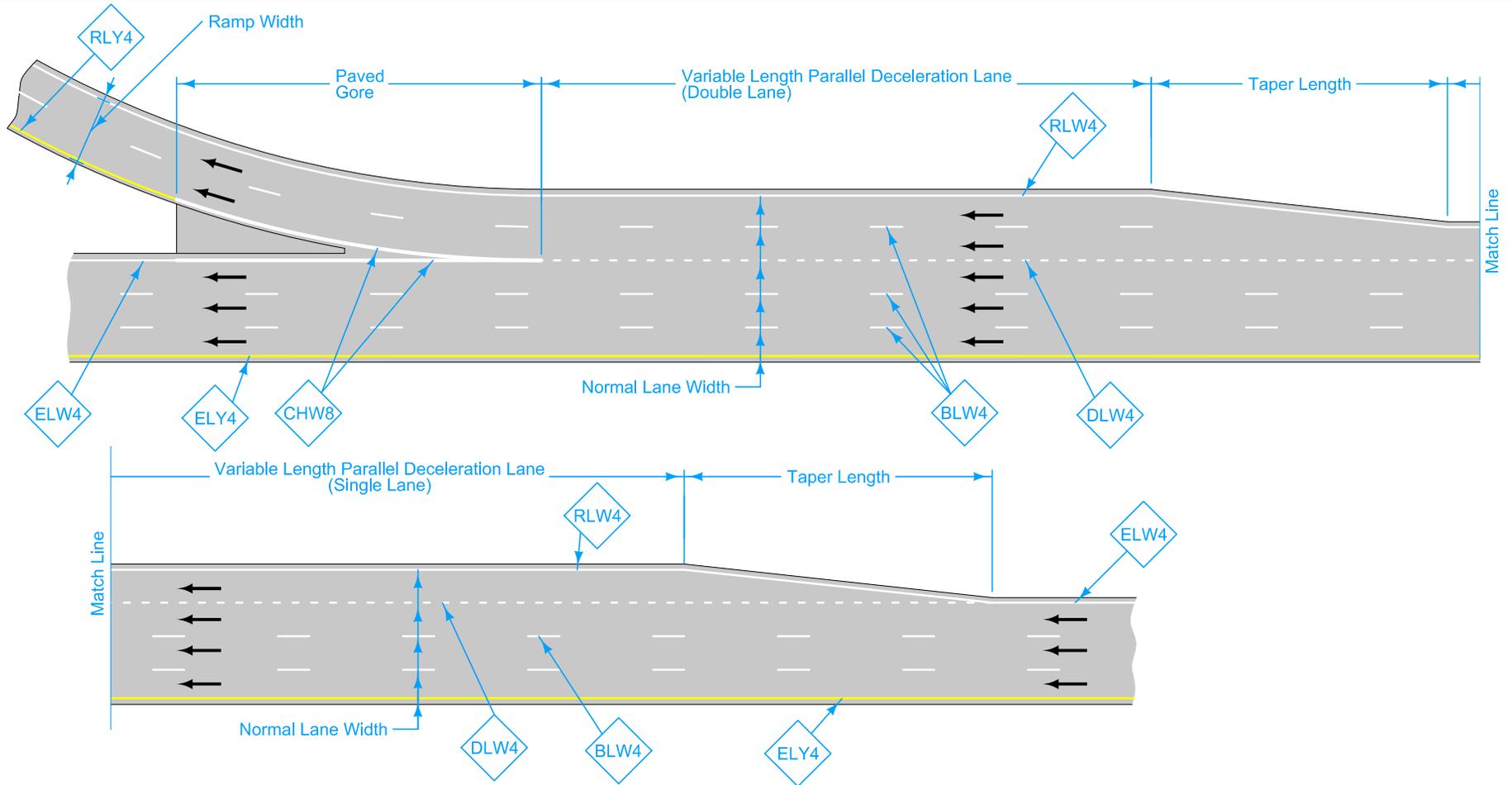
LEGEND			
←	Direction of Traffic	DLW4	Dotted Line (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		RLW4	Ramp Edge Line Right (White)
		RLY4	Ramp Edge Line Left (Yellow)
		LDW8	Lane Drop (White)

	REVISION
	4 04-21-20
STANDARD ROAD PLAN	PM-310
SHEET 3 of 7	
REVISIONS: Added two lane exit and entrance ramp tapers.	
APPROVED BY DESIGN METHODS ENGINEER 	
ENTRANCE AND EXIT RAMPS	



LEGEND			
←	Direction of Traffic		
DLW4	Dotted Line (White)	RLW4	Ramp Edge Line Right (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		RLY4	Ramp Edge Line Left (Yellow)
		LDW8	Lane Drop (White)

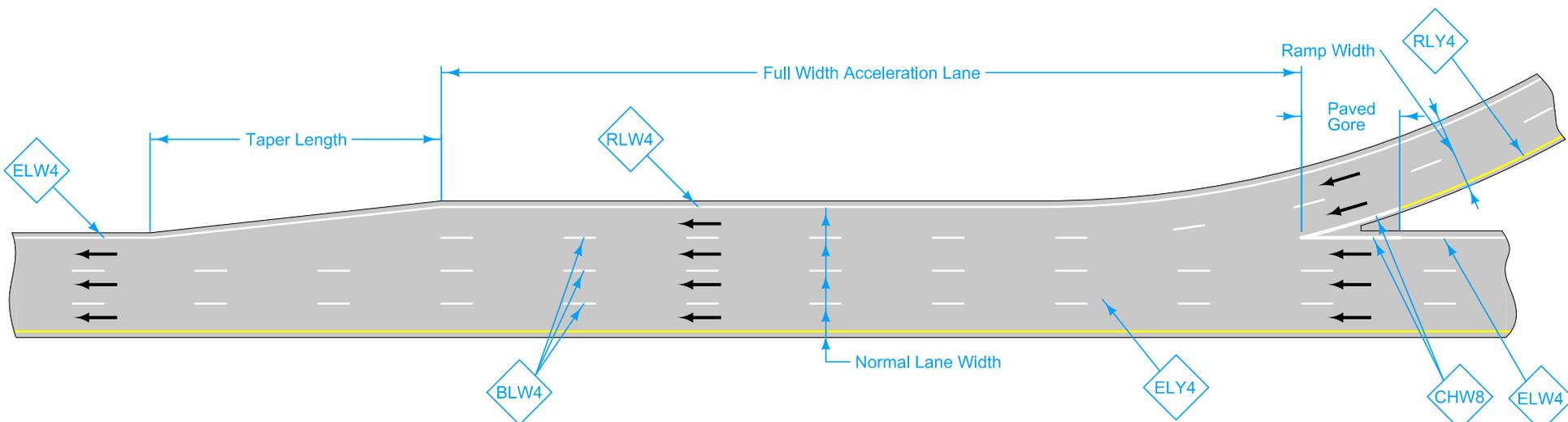
 STANDARD ROAD PLAN	REVISION 4 04-21-20
	PM-310
	SHEET 4 of 7
REVISIONS: Added two lane exit and entrance ramp tapers.	
APPROVED BY DESIGN METHODS ENGINEER	
ENTRANCE AND EXIT RAMPS	



TWO LANE EXIT RAMP WITH DOUBLE PARALLEL DECELERATION LANE

LEGEND			
←	Direction of Traffic		
BLW4	Broken Lane Line (White)	DLW4	Dotted Line (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		ELW4	Edge Line Right (White)
		LDW8	Lane Drop (White)
		RLW4	Ramp Edge Line Right (White)
		RLY4	Ramp Edge Line Left (Yellow)

 STANDARD ROAD PLAN	REVISION
	4 04-21-20
	PM-310
SHEET 5 of 7	
<small>REVISIONS: Added two lane exit and entrance ramp tapers.</small>	
<small>APPROVED BY DESIGN METHODS ENGINEER</small>	
ENTRANCE AND EXIT RAMPS	



TWO LANE ENTRANCE RAMP WITH SINGLE PARALLEL ACCELERATION LANE

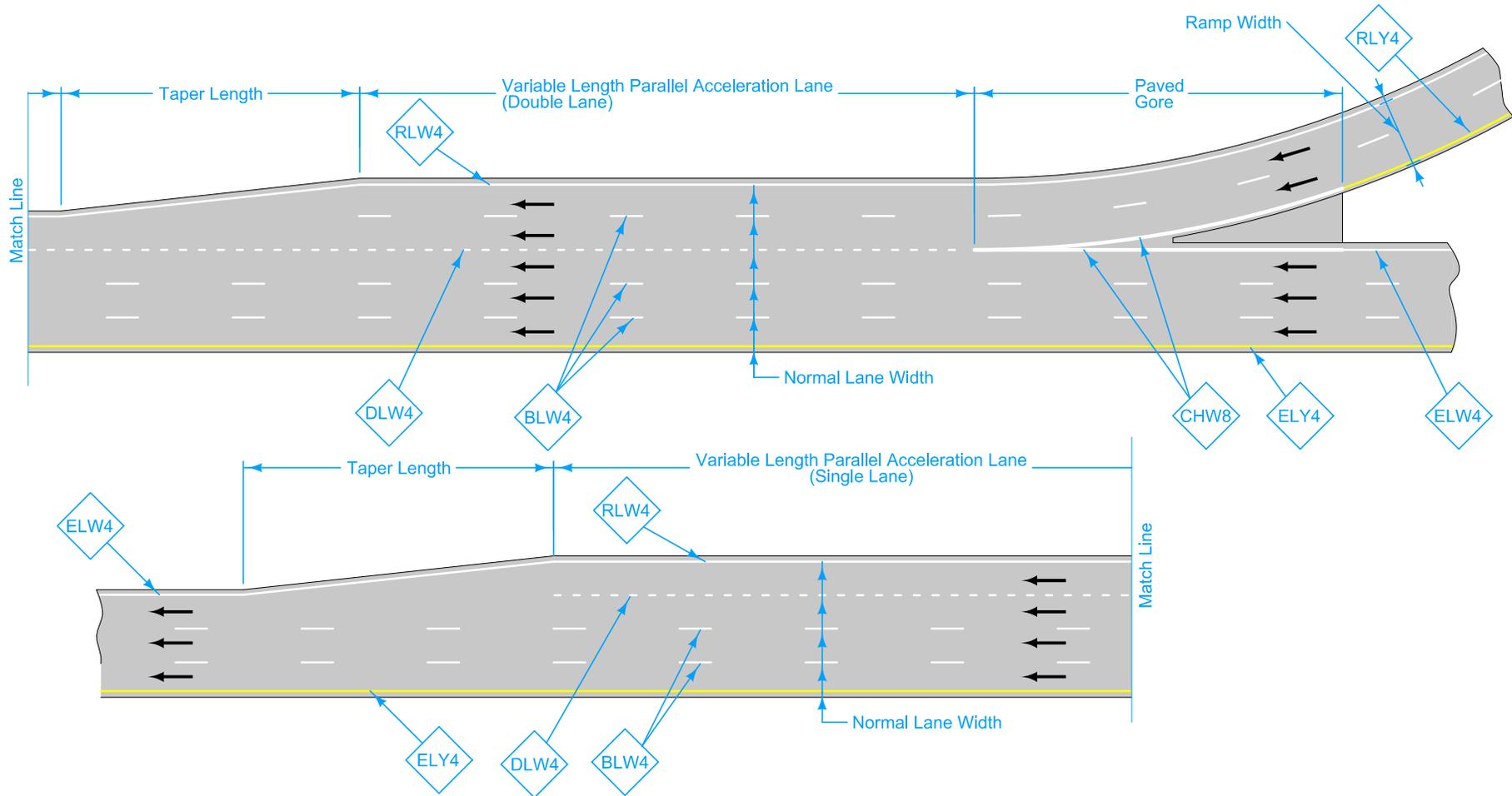
LEGEND			
←	Direction of Traffic	DLW4	Dotted Line (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		RLW4	Ramp Edge Line Right (White)
		RLY4	Ramp Edge Line Left (Yellow)
		LDW8	Lane Drop (White)

	REVISION
	4 04-21-20
	STANDARD ROAD PLAN
	PM-310
	SHEET 6 of 7

REVISIONS: Added two lane exit and entrance ramp tapers.

Handwritten Signature
 APPROVED BY DESIGN METHODS ENGINEER

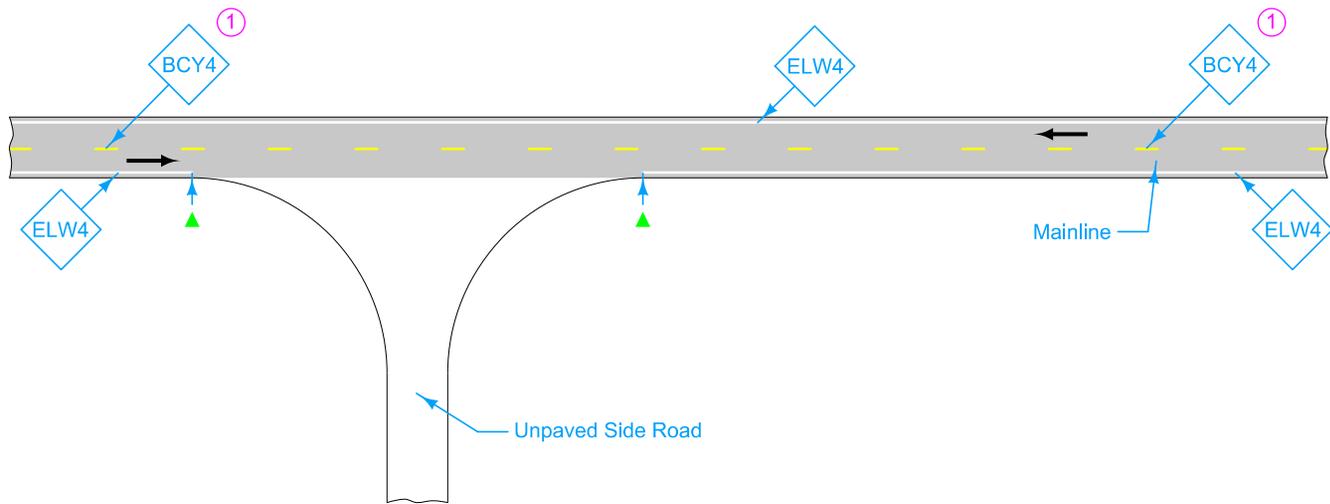
ENTRANCE AND EXIT RAMPS



TWO LANE ENTRANCE RAMP WITH DOUBLE PARALLEL ACCELERATION LANE

LEGEND			
←	Direction of Traffic		
DLW4	Dotted Line (White)	RLW4	Ramp Edge Line Right (White)
BLW4	Broken Lane Line (White)	ELW4	Edge Line Right (White)
CHW8	Channelizing Line (White)	ELY4	Edge Line Left (Yellow)
		LDW8	Lane Drop (White)
		RLY4	Ramp Edge Line Left (Yellow)

	REVISION
	4 04-21-20
STANDARD ROAD PLAN	PM-310
SHEET 7 of 7	
REVISIONS: Added two lane exit and entrance ramp tapers.	
APPROVED BY DESIGN METHODS ENGINEER	
ENTRANCE AND EXIT RAMPS	



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](#).

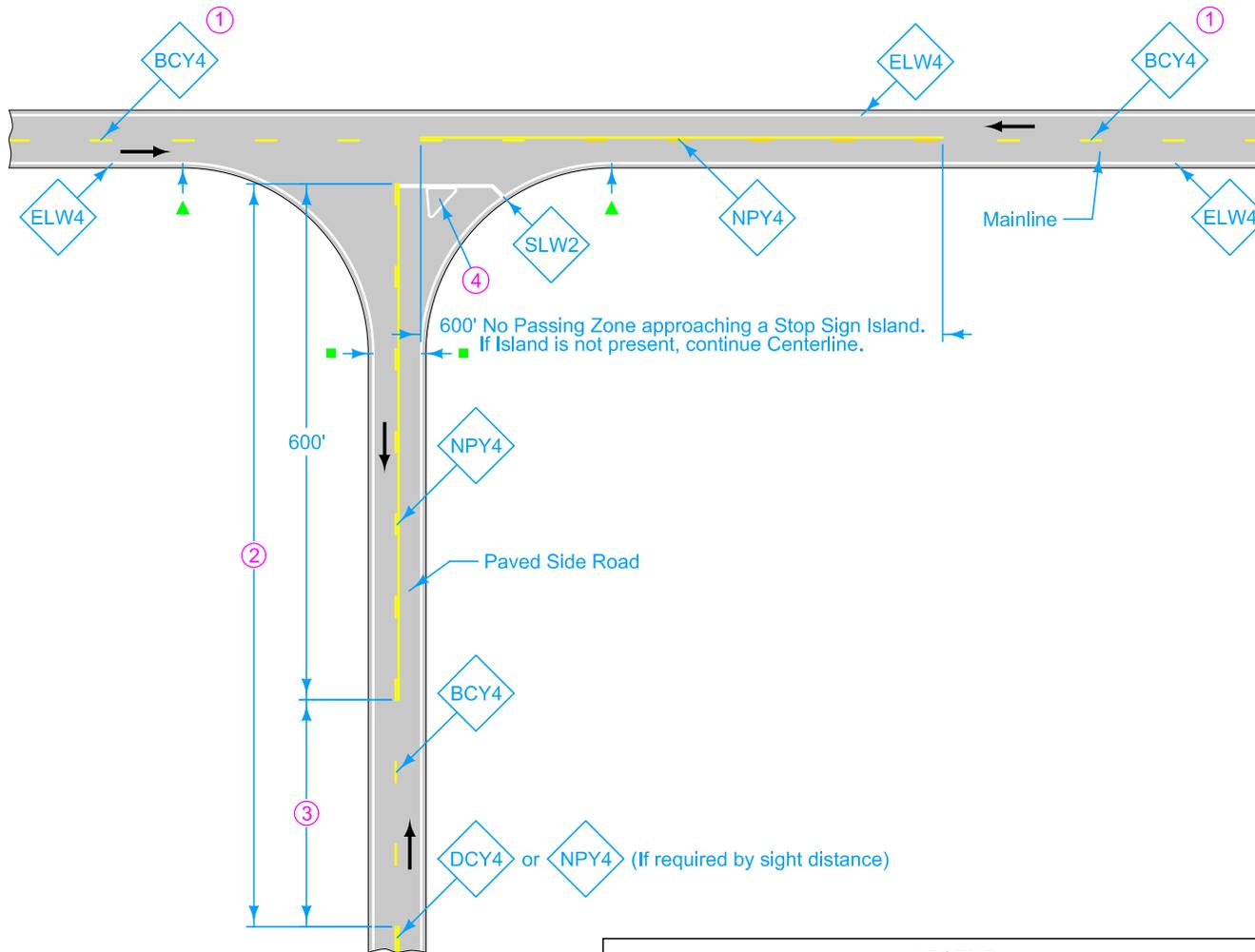
- ① Broken Centerline changes to No Passing Zone Line or Double Centerline if required by sight distance.

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
ELW4	Edge Line Right (White)

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-22](#)

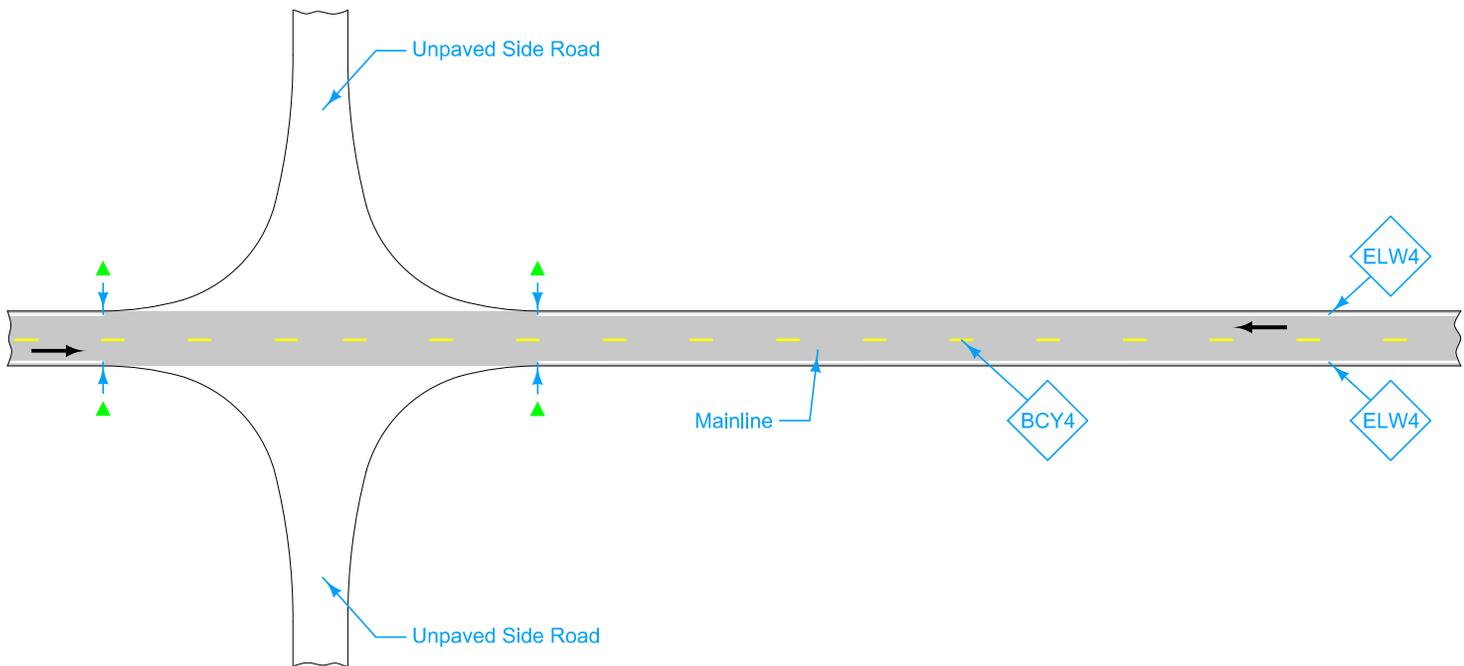
	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-420
REVISIONS: New logo.	SHEET 1 of 2
APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH NO TURN LANES (ONE-WAY STOP CONDITION)	



- ① Broken Centerline changes to No Passing Zone Line or Double Centerline if required by sight distance.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ If less than 400 feet, join Yellow Lines.
- ④ For Island information, see [PM-120](#).

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-420
	SHEET 2 of 2
REVISIONS: New Logo.	
APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH NO TURN LANES (ONE-WAY STOP CONDITION)	



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](#).

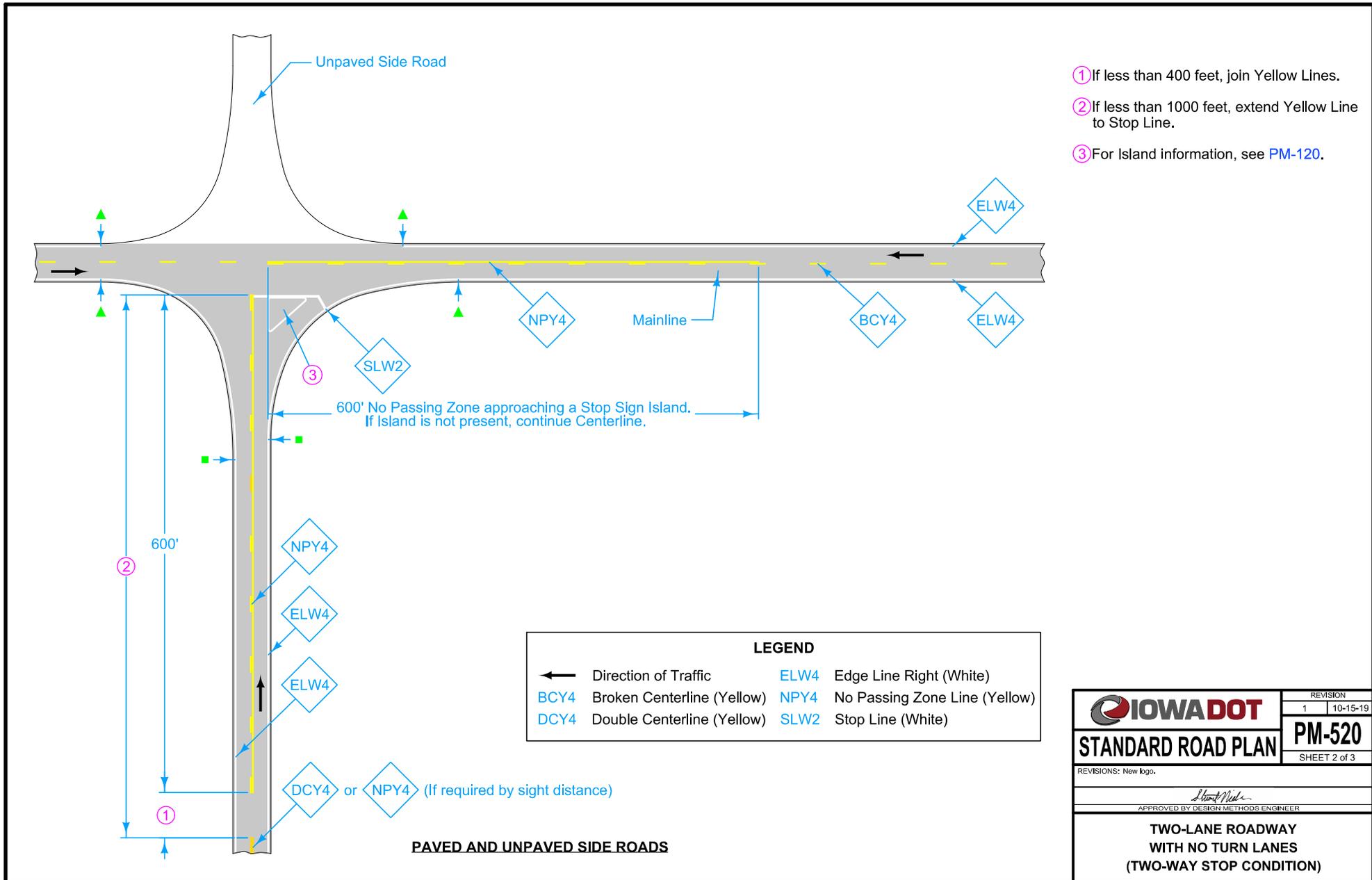
LEGEND	
	Direction of Traffic
BCY4	Broken Centerline (Yellow)
ELW4	Edge Line Right (White)

UNPAVED SIDE ROADS

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-22](#)

	REVISION	
	1	10-15-19
STANDARD ROAD PLAN	PM-520	
REVISIONS: New logo.	SHEET 1 of 3	
APPROVED BY DESIGN METHODS ENGINEER		
TWO-LANE ROADWAY WITH NO TURN LANES (TWO-WAY STOP CONDITION)		

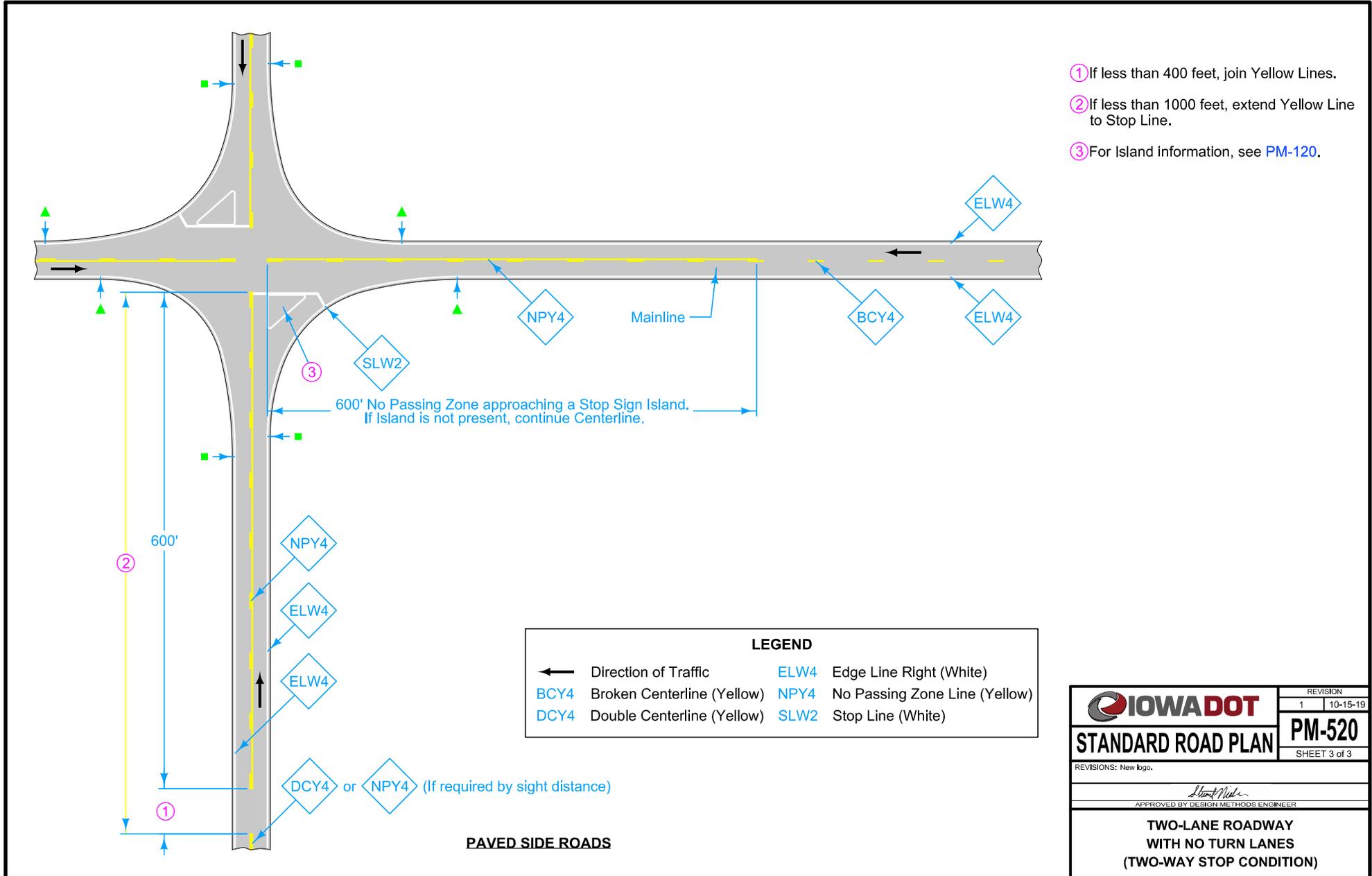


- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ For Island information, see PM-120.

LEGEND	
←	Direction of Traffic
ELW4	Edge Line Right (White)
BCY4	Broken Centerline (Yellow)
DCY4	Double Centerline (Yellow)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)

PAVED AND UNPAVED SIDE ROADS

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-520
REVISIONS: New logo.	SHEET 2 of 3
APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH NO TURN LANES (TWO-WAY STOP CONDITION)	



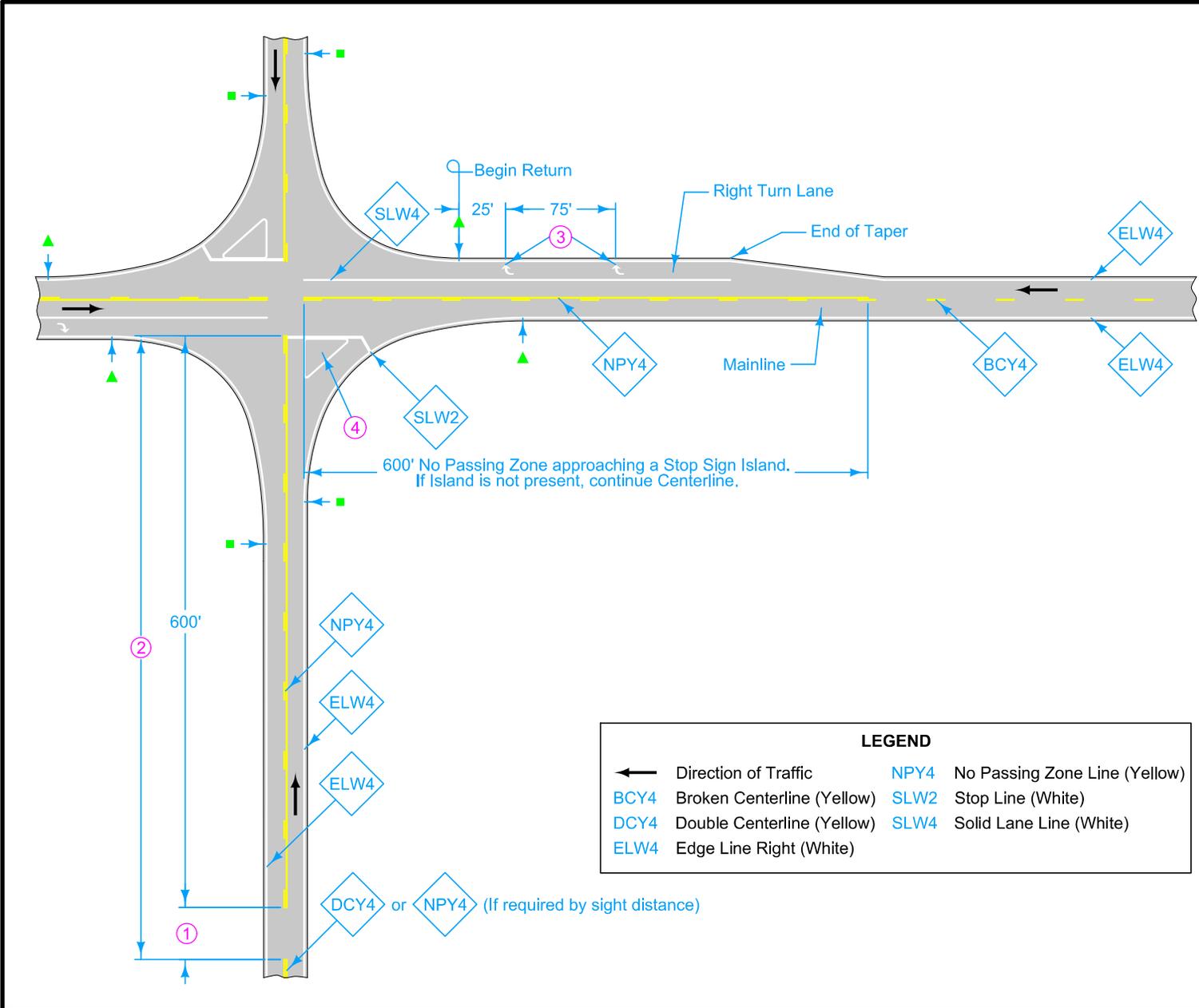
- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ For Island information, see [PM-120](#).

LEGEND	
←	Direction of Traffic
ELW4	Edge Line Right (White)
BCY4	Broken Centerline (Yellow)
DCY4	Double Centerline (Yellow)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)

DCY4 or NPY4 (If required by sight distance)

PAVED SIDE ROADS

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-520
REVISIONS: New logo.	SHEET 3 of 3
APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH NO TURN LANES (TWO-WAY STOP CONDITION)	



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.

Start Solid Lane Line for Right Turn Lane at end of taper.

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](#)

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)
SLW4	Solid Lane Line (White)

DCY4 or NPY4 (If required by sight distance)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-521
REVISIONS: New Logo.	SHEET 1 of 1
 APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH RIGHT TURN LANES	

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
 and Legend Items

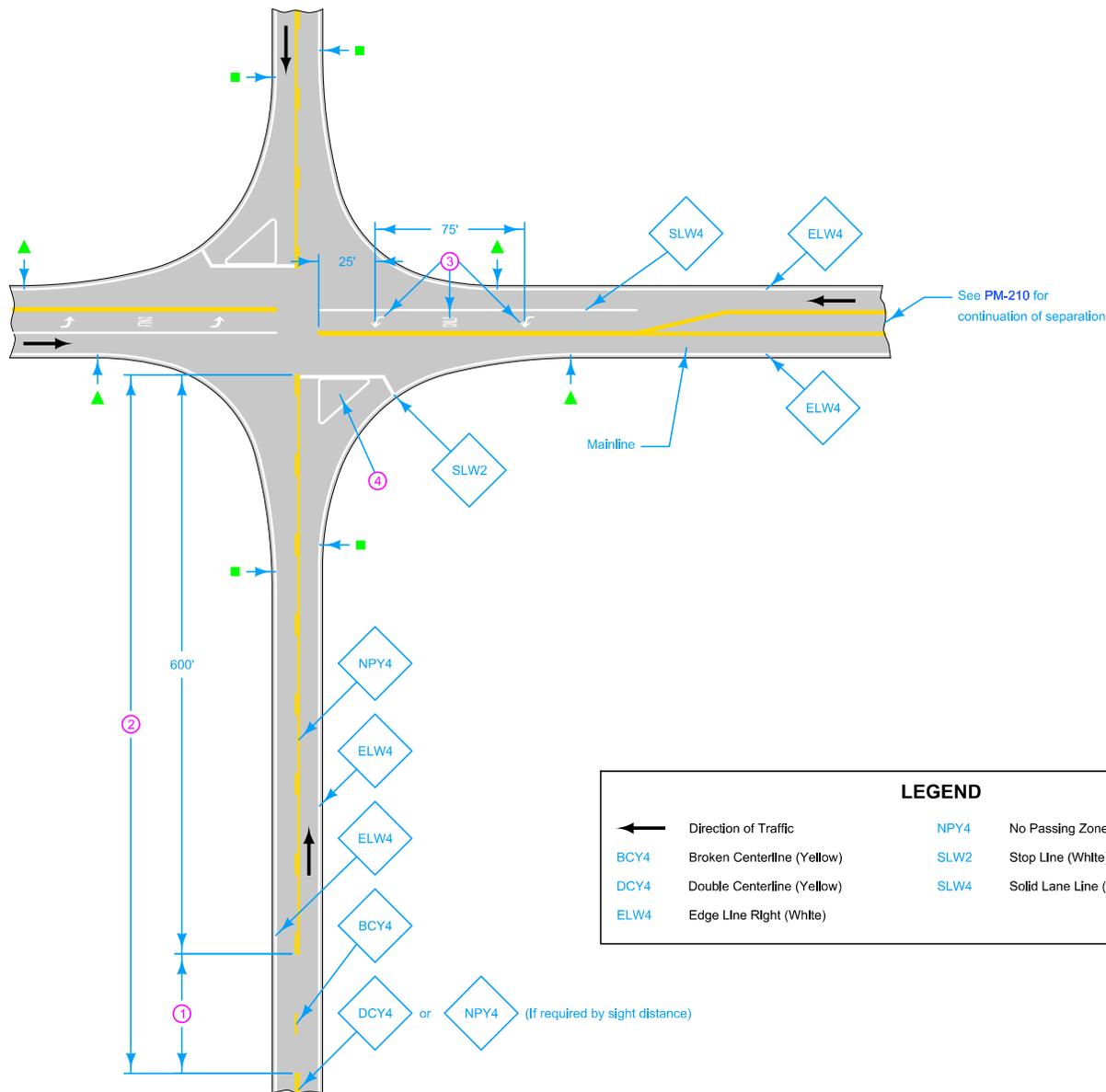
Possible Tabulations:
[108-22](#)
[108-29](#)

IOWA DOT	REVISION
	2 04-16-19
STANDARD ROAD PLAN	PM-522
SHEET 1 of 2	

REVISIONS: Modified PAINTED CHANNELIZED ISLAND detail on Sheet 2.

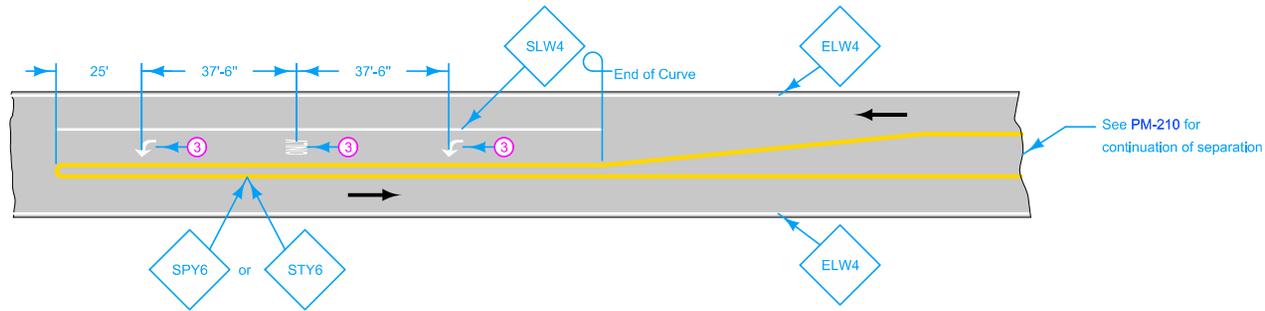
Scott Miller
 APPROVED BY DESIGN METHODS ENGINEER

**TWO-LANE ROADWAY
 WITH LEFT TURN LANES**

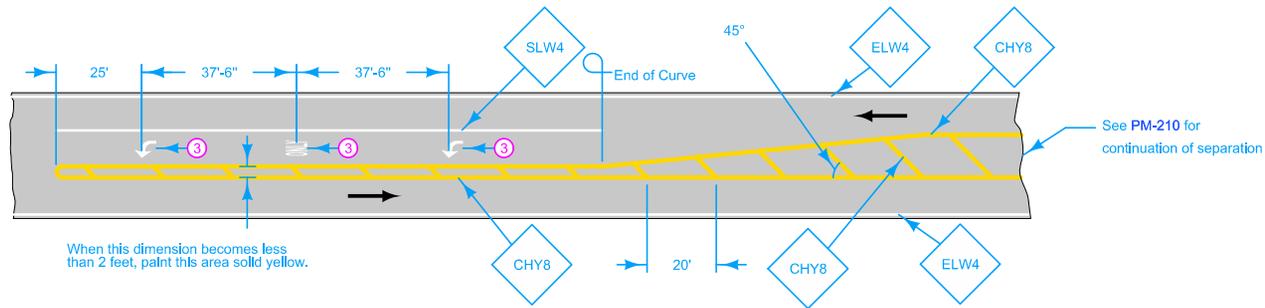


LEGEND		
	Direction of Traffic	
BCY4	Broken Centerline (Yellow)	NPY4 No Passing Zone Line (Yellow)
DCY4	Double Centerline (Yellow)	SLW2 Stop Line (White)
ELW4	Edge Line Right (White)	SLW4 Solid Lane Line (White)

DCY4 or NPY4 (If required by sight distance)



CURBED CHANNELIZED ISLAND

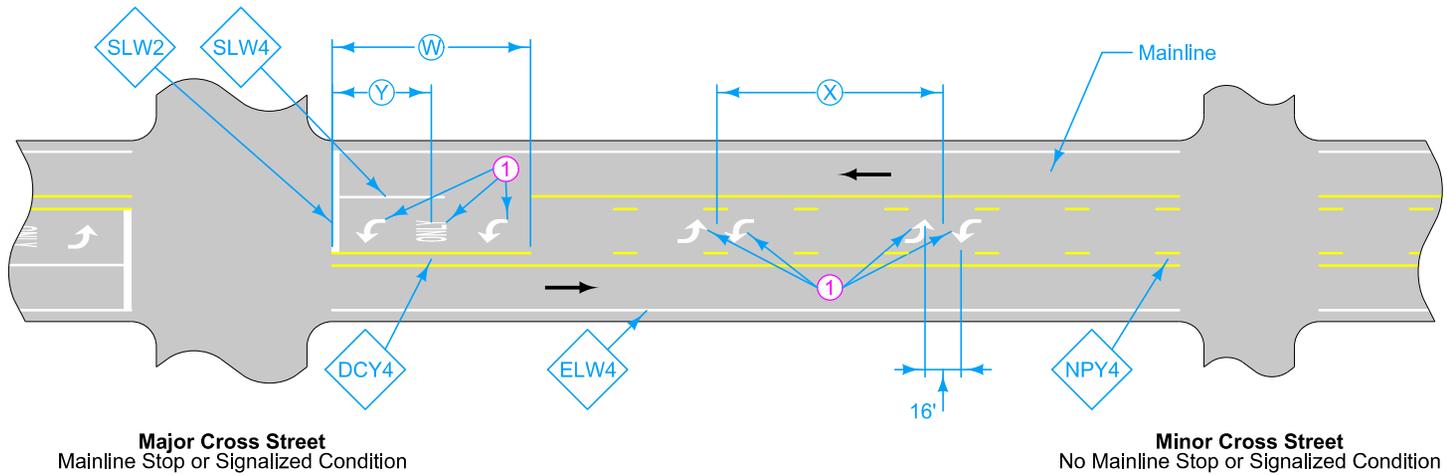


PAINTED CHANNELIZED ISLAND

③ Symbol and Legend (when listed in 108-29).

LEGEND			
	Direction of Traffic	SLW4	Solid Lane Line (White)
CHY8	Channelizing Line (Yellow)	SPY6	Sloped Curb 6" (Yellow)
ELW4	Edge Line Right (White)	STY6	Standard Curb 6" (Yellow)

	REVISION
	2 04-16-19
	STANDARD ROAD PLAN
	PM-522
	SHEET 2 of 2
<small>REVISIONS: Modified PAINTED CHANNELIZED ISLAND detail on Sheet 2.</small>	
<small>APPROVED BY DESIGN METHODS ENGINEER</small>	
TWO-LANE ROADWAY WITH LEFT TURN LANES	



Terminate all mainline centerline markings at the edge of the property line.

Spacing between center of Symbols and Legends used within Left Turn Only Storage Length is $37\frac{1}{2}$ feet.

For line information, see [PM-110](#).

For symbol and legend information, see [PM-111](#).

① Symbol and Legend (when listed in 108-29).

Ⓜ Storage Length to be 150 feet minimum.

ⓧ Typical spacing (in feet) between sets of arrows should be approximately 10 times the speed limit (MPH) or one set located at mid-block.

Ⓨ Distance from lane line termination to center of Left Turn Only Symbol and Legend is $\frac{1}{2}$ the Storage Length.

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

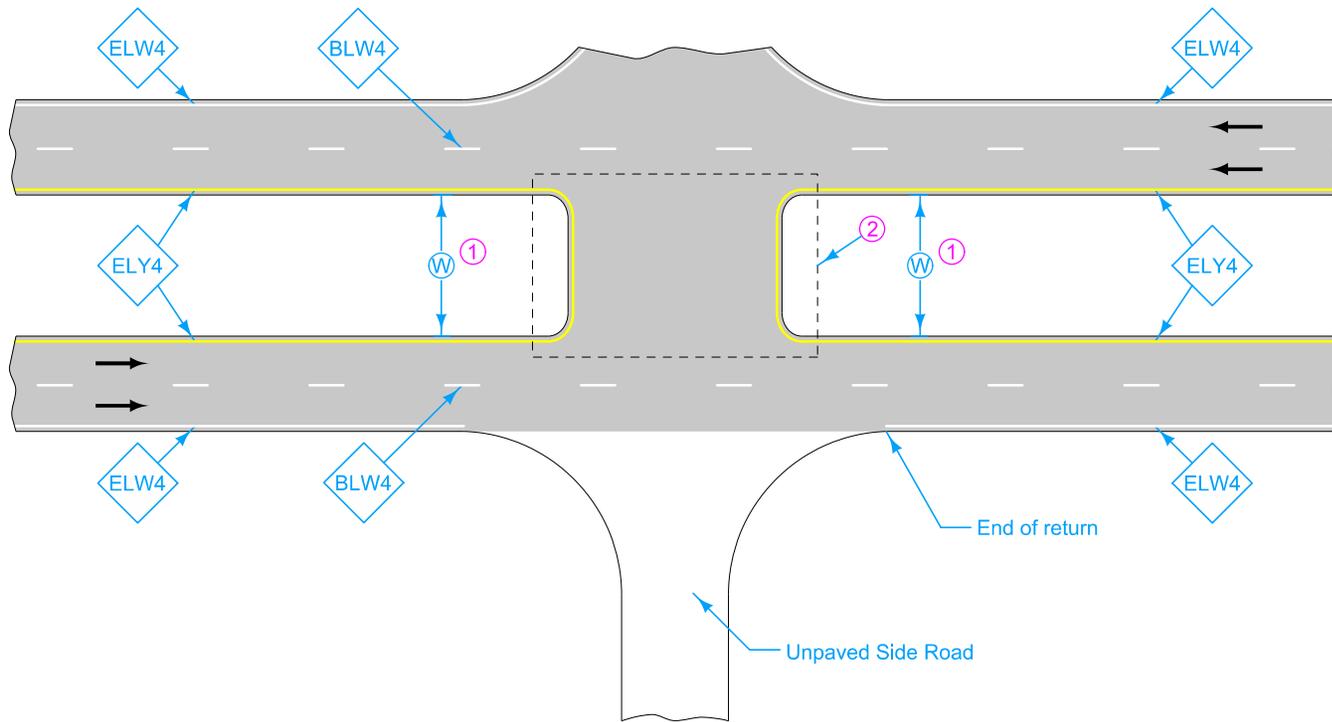
Possible Tabulations:
[108-22](#)
[108-29](#)

LEGEND			
←	Direction of Traffic	NPY4	No Passing Zone Line (Yellow)
DCY4	Double CenterLine (Yellow)	SLW2	Stop Line (White)
ELW4	Edge Line Right (White)	SLW4	Solid Lane Line (White)

	REVISION	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px; text-align: center;">1</td> <td style="width: 50px; text-align: center;">10-15-19</td> </tr> </table>	1
1	10-15-19	
STANDARD ROAD PLAN	PM-550	
REVISIONS: New Logo.		
APPROVED BY DESIGN METHODS ENGINEER		
TWO-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE		

For line information, see [PM-110](#).

- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See [PM-760](#) for markings placed in the median.



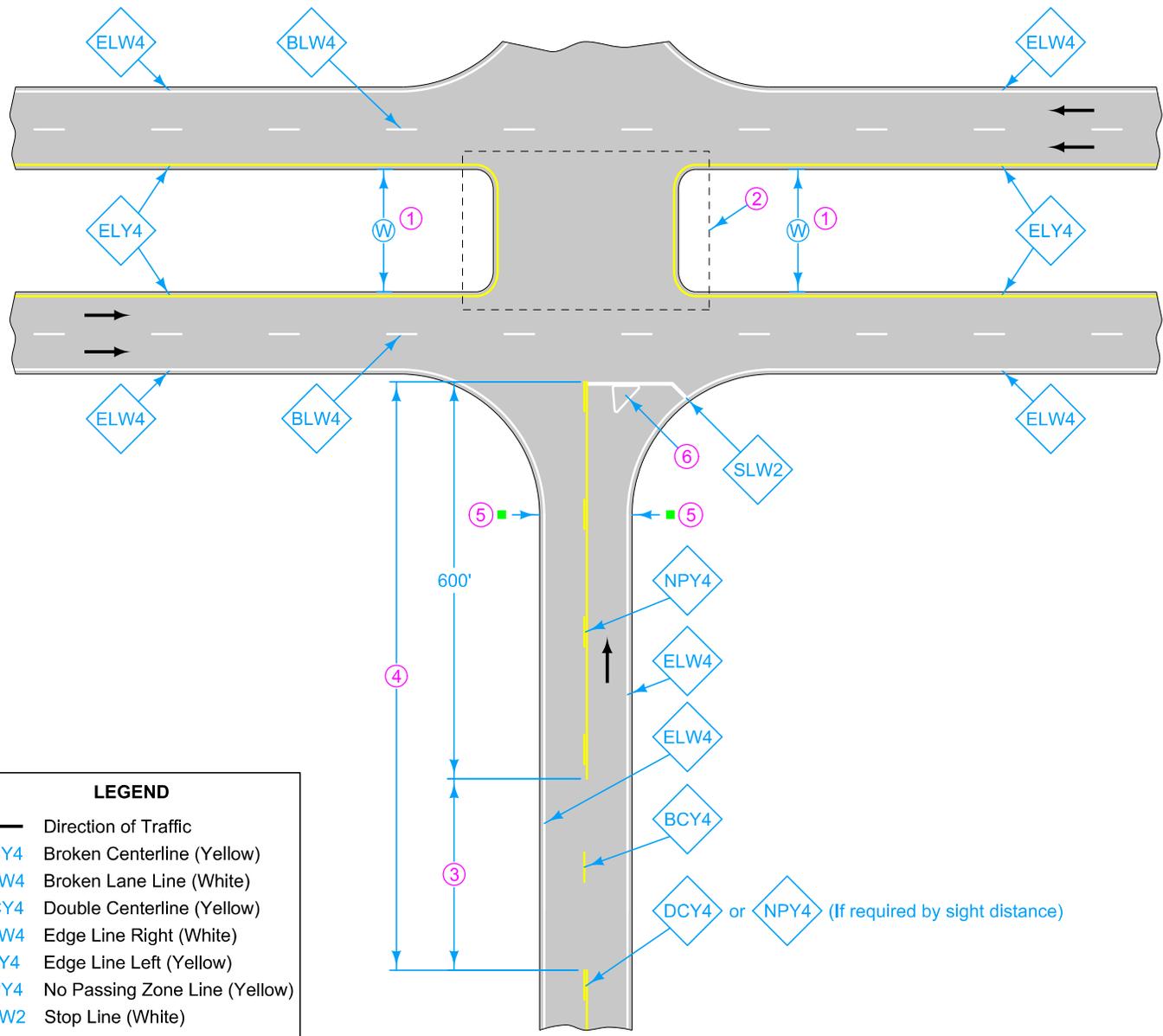
LEGEND	
←	Direction of Traffic
BLW4	Broken Lane Line (White)
ELW4	Edge Line Right (White)
ELY4	Edge Line Left (Yellow)

UNPAVED SIDE ROAD

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-29](#)

IOWA DOT	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-560
REVISIONS: New logo.	SHEET 1 of 2
APPROVED BY DESIGN METHODS ENGINEER	
<div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> </div>	
DIVIDED MULTI-LANE ROADWAY WITH NO TURN LANES	



- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See PM-760 for markings placed in the median.
- ③ If less than 400 feet, join Yellow Lines.
- ④ If less than 1000 feet, extend Yellow Line to Stop Line.
- ⑤ 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). If both roadways have edge lines, continue edge lines around the returns.
- ⑥ If Island present, see PM-120.

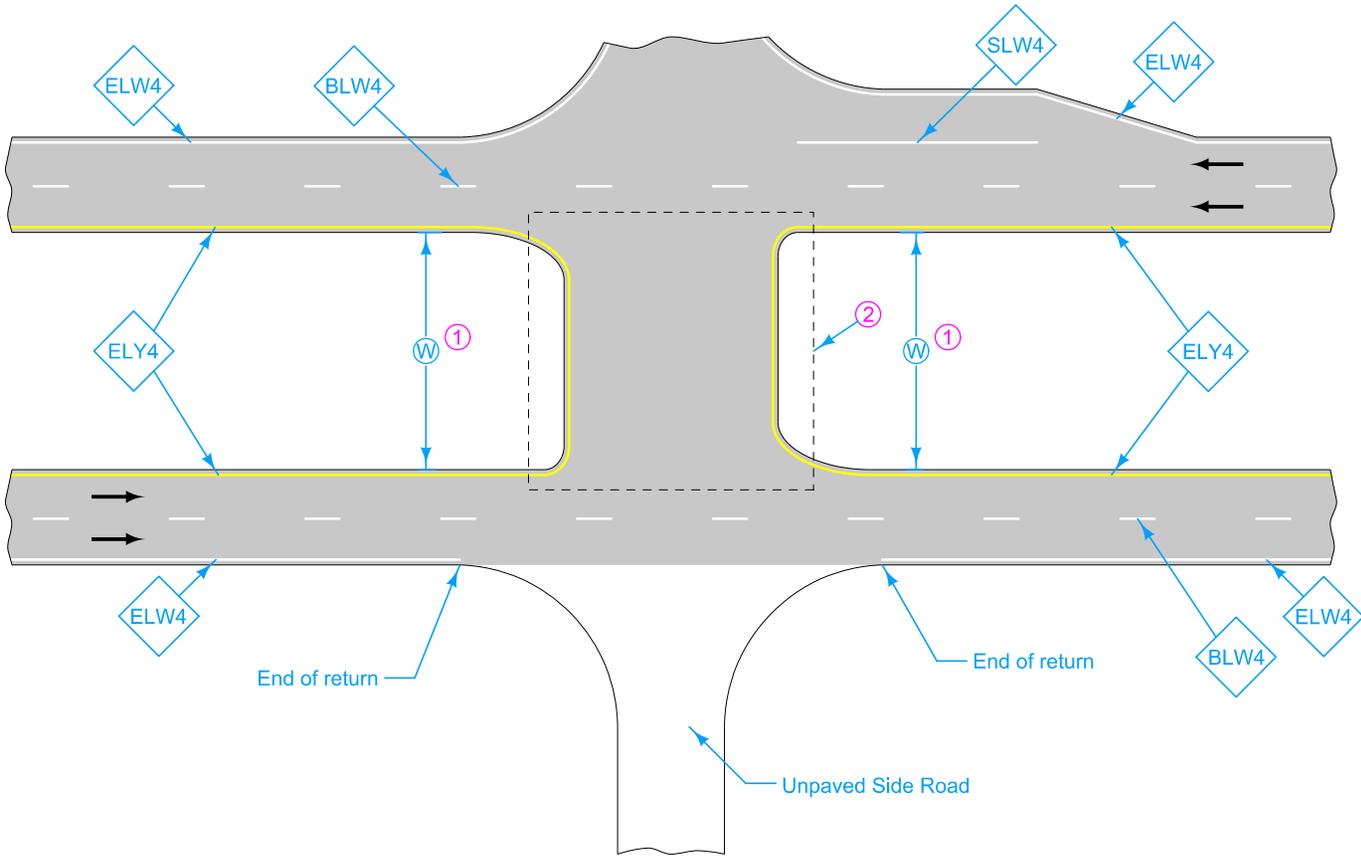
LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
BLW4	Broken Lane Line (White)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
ELY4	Edge Line Left (Yellow)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)

TWO-LANE PAVED SIDE ROAD

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-560
REVISIONS: New logo.	SHEET 2 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
DIVIDED MULTI-LANE ROADWAY WITH NO TURN LANES	

For line information, see [PM-110](#).

- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See [PM-760](#) for markings placed in the median.



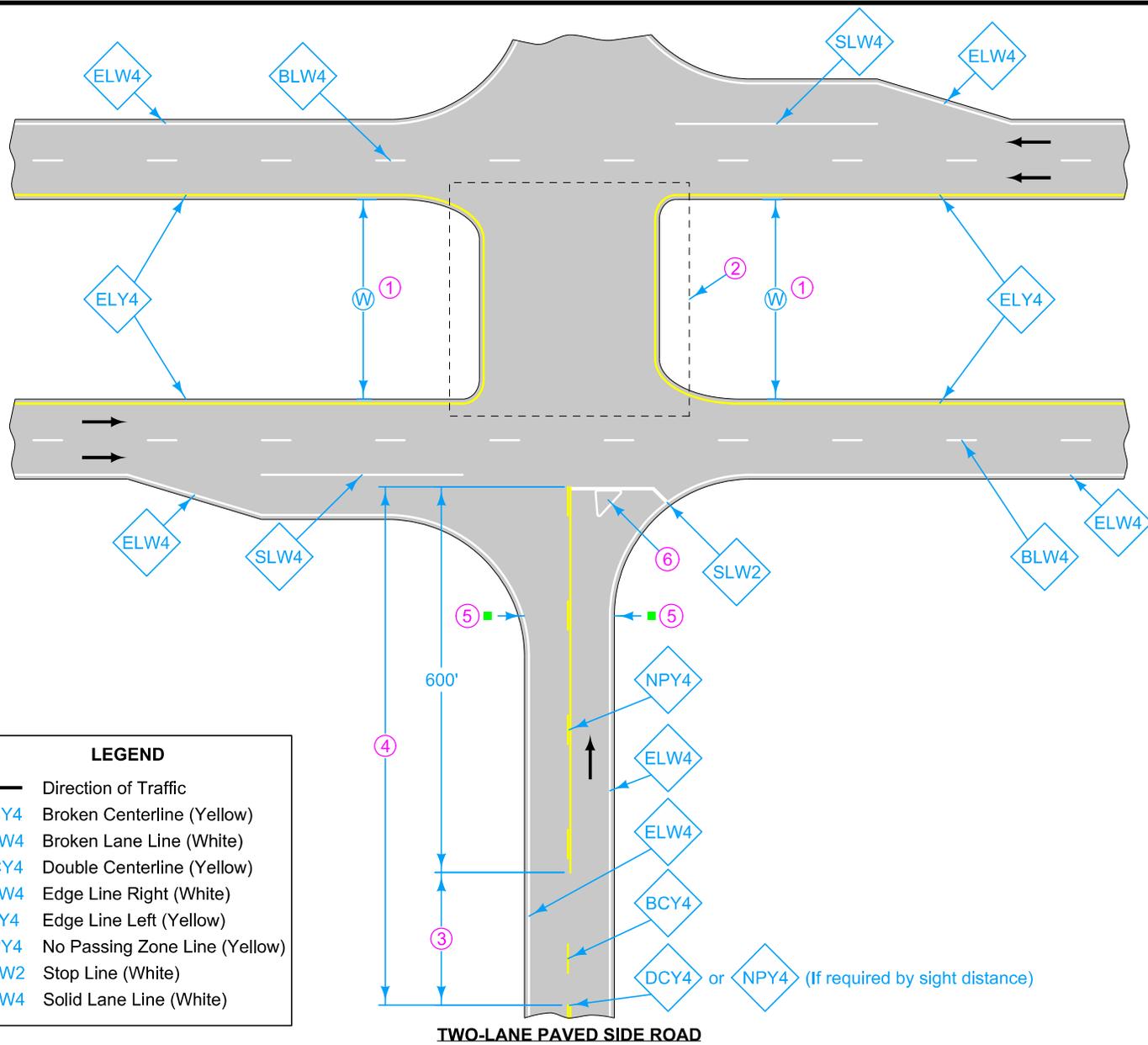
LEGEND	
	Direction of Traffic
$BLW4$	Broken Lane Line (White)
$ELW4$	Edge Line Right (White)
$ELY4$	Edge Line Left (Yellow)
$SLW4$	Solid Lane Line (White)

UNPAVED SIDE ROAD

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-29](#)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-561
SHEET 1 of 2	
REVISIONS: New logo.	
APPROVED BY DESIGN METHODS ENGINEER	
DIVIDED MULTI-LANE ROADWAY WITH RIGHT TURN LANES	



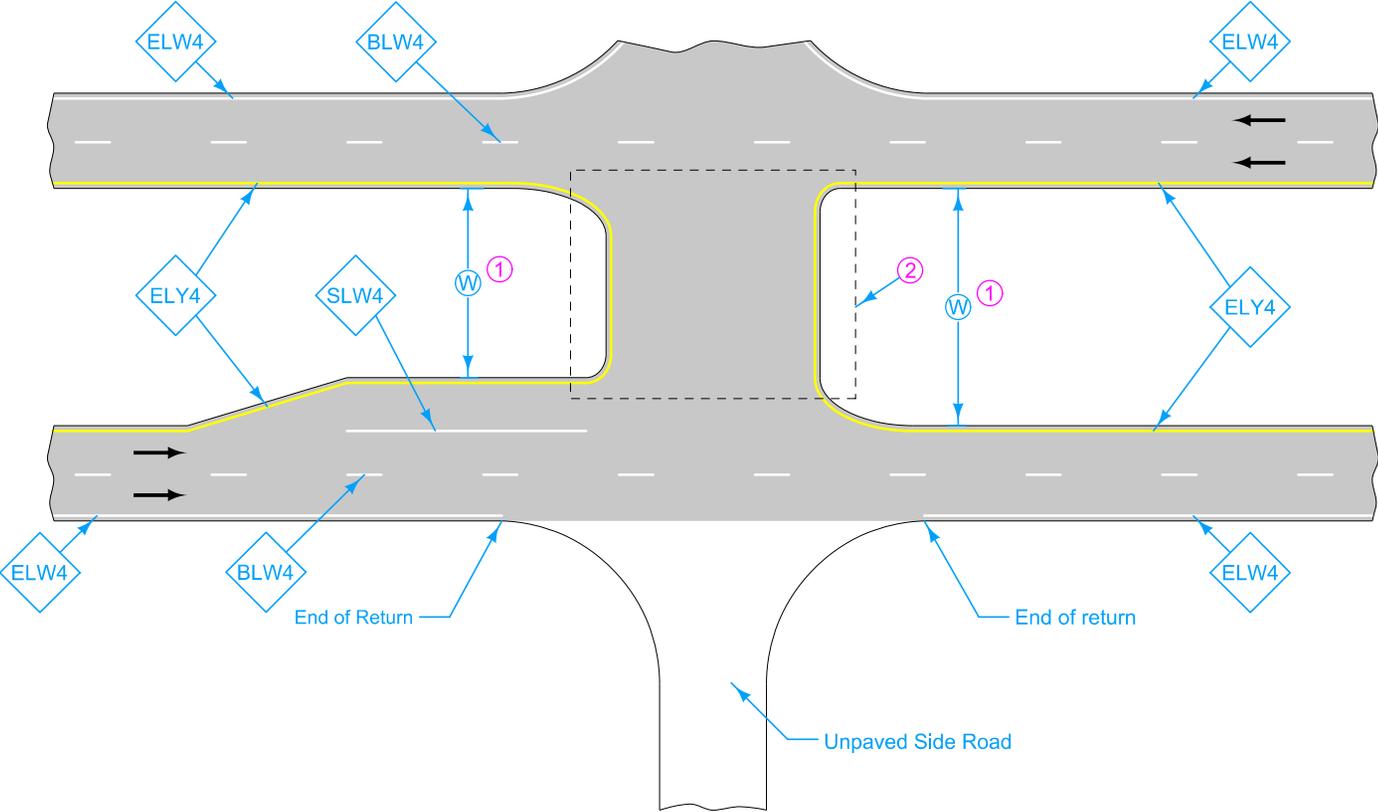
- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See PM-760 for markings placed in the median.
- ③ If less than 400 feet, join Yellow Lines.
- ④ If less than 1000 feet, extend Yellow Line to Stop Line.
- ⑤ 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). If both roadways have edge lines, continue edge lines around the returns.
- ⑥ If Island present, see PM-120.

LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
BLW4	Broken Lane Line (White)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
ELY4	Edge Line Left (Yellow)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)
SLW4	Solid Lane Line (White)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-561
REVISIONS: New Isgo.	SHEET 2 of 2
 APPROVED BY DESIGN METHODS ENGINEER	
DIVIDED MULTI-LANE ROADWAY WITH RIGHT TURN LANES	

For line information, see [PM-110](#).

- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See [PM-760](#) for markings placed in the median.



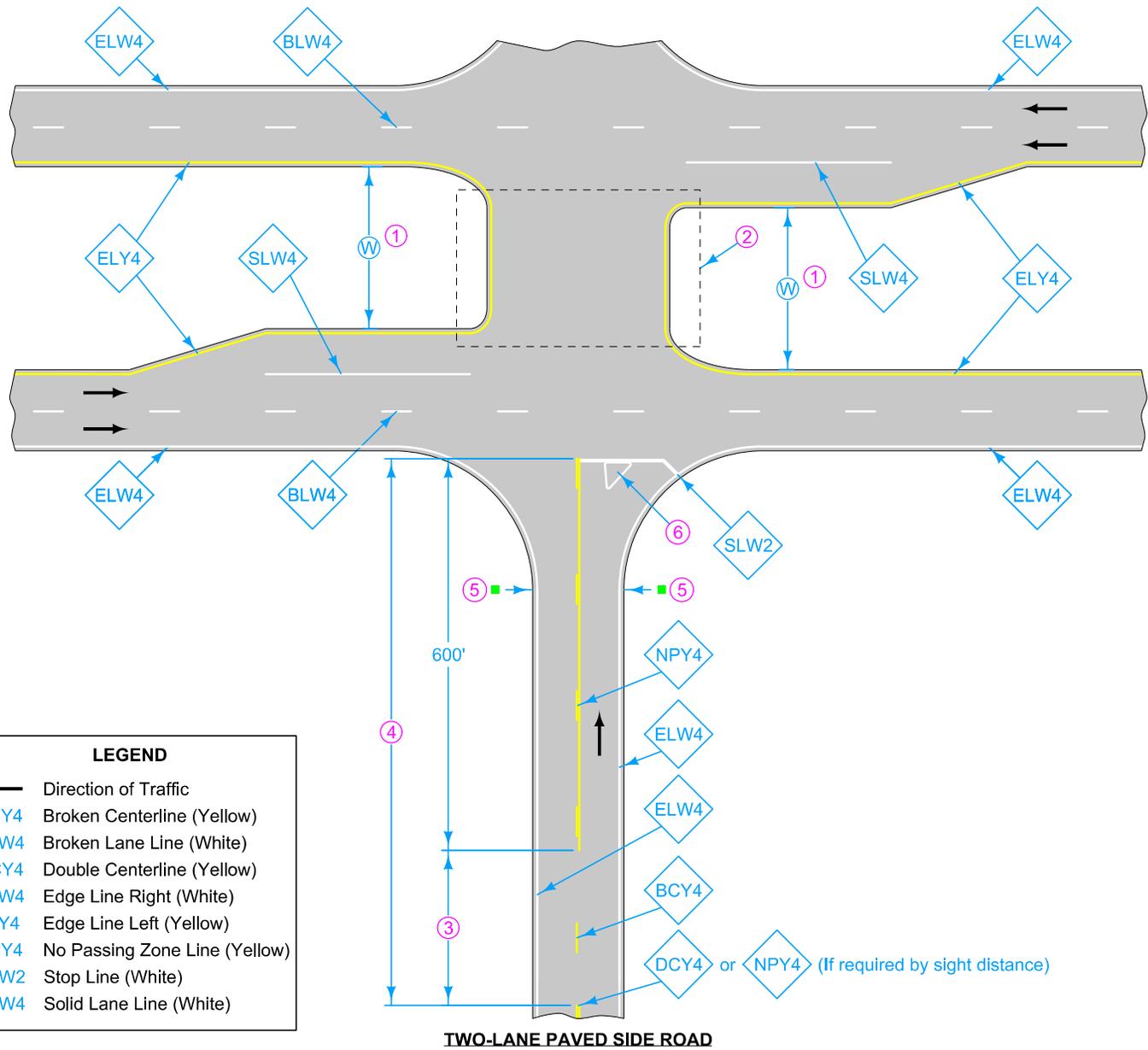
LEGEND	
	Direction of Traffic
BLW4	Broken Lane Line (White)
ELW4	Edge Line Right (White)
ELY4	Edge Line Left (Yellow)
SLW4	Solid Lane Line (White)

UNPAVED SIDE ROAD

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-29](#)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-562
REVISIONS: New logo.	SHEET 1 of 2
APPROVED BY DESIGN METHODS ENGINEER	
DIVIDED MULTI-LANE ROADWAY WITH LEFT TURN LANES	



- ① W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.
- ② See **PM-760** for markings placed in the median.
- ③ If less than 400 feet, join Yellow Lines.
- ④ If less than 1000 feet, extend Yellow Line to Stop Line.
- ⑤ 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). If both roadways have edge lines, continue edge lines around the returns.
- ⑥ If Island present, see **PM-120**.

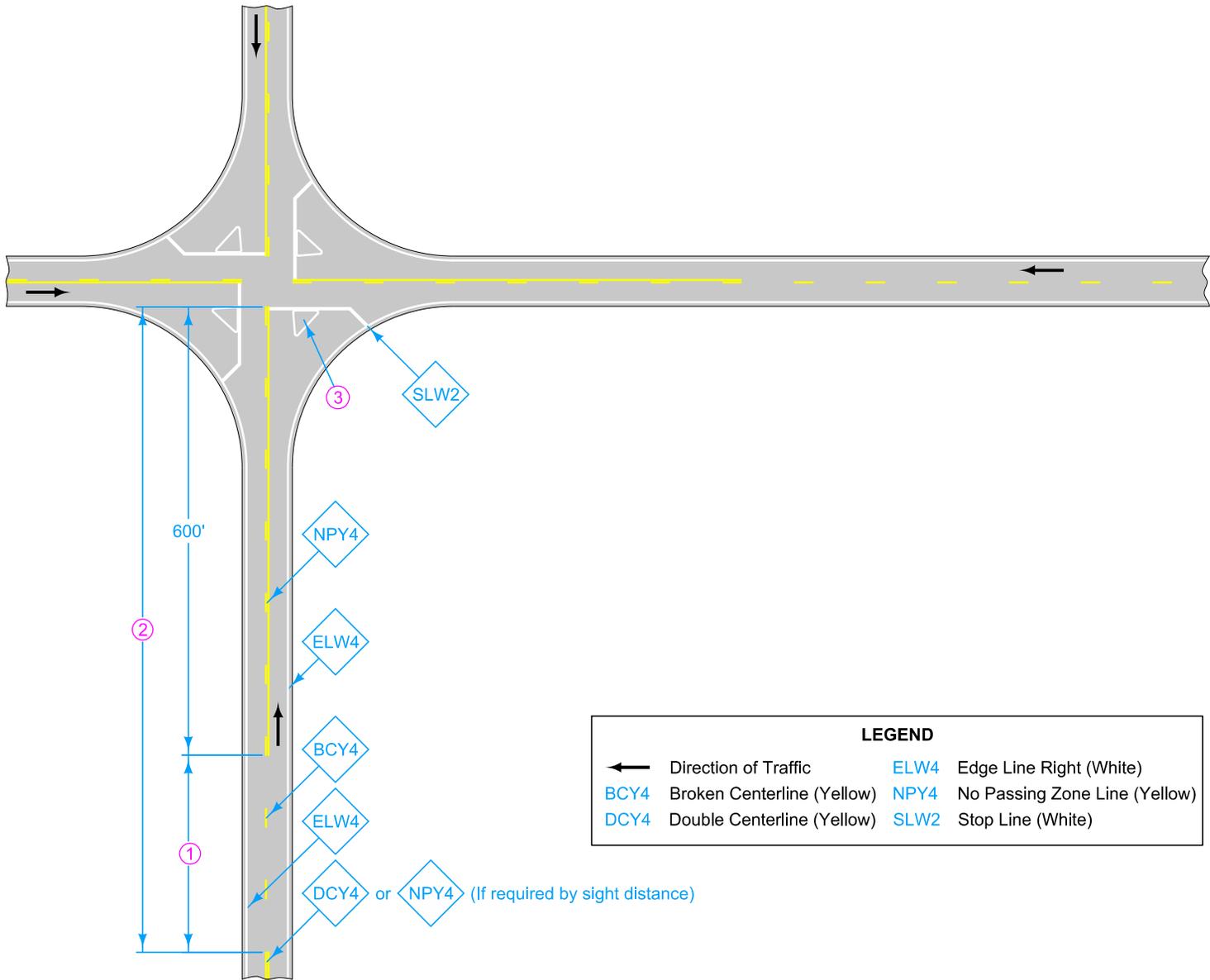
LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
BLW4	Broken Lane Line (White)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
ELY4	Edge Line Left (Yellow)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)
SLW4	Solid Lane Line (White)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-562
<small>REVISIONS: New logo.</small>	<small>SHEET 2 of 2</small>
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
DIVIDED MULTI-LANE ROADWAY WITH LEFT TURN LANES	

TWO-LANE PAVED SIDE ROAD

For line information, see [PM-110](#).

- ① If less than 400 feet, join Yellow Lines.
- ② If less than 1000 feet, extend Yellow Line to Stop Line.
- ③ If Island present, see [PM-120](#).



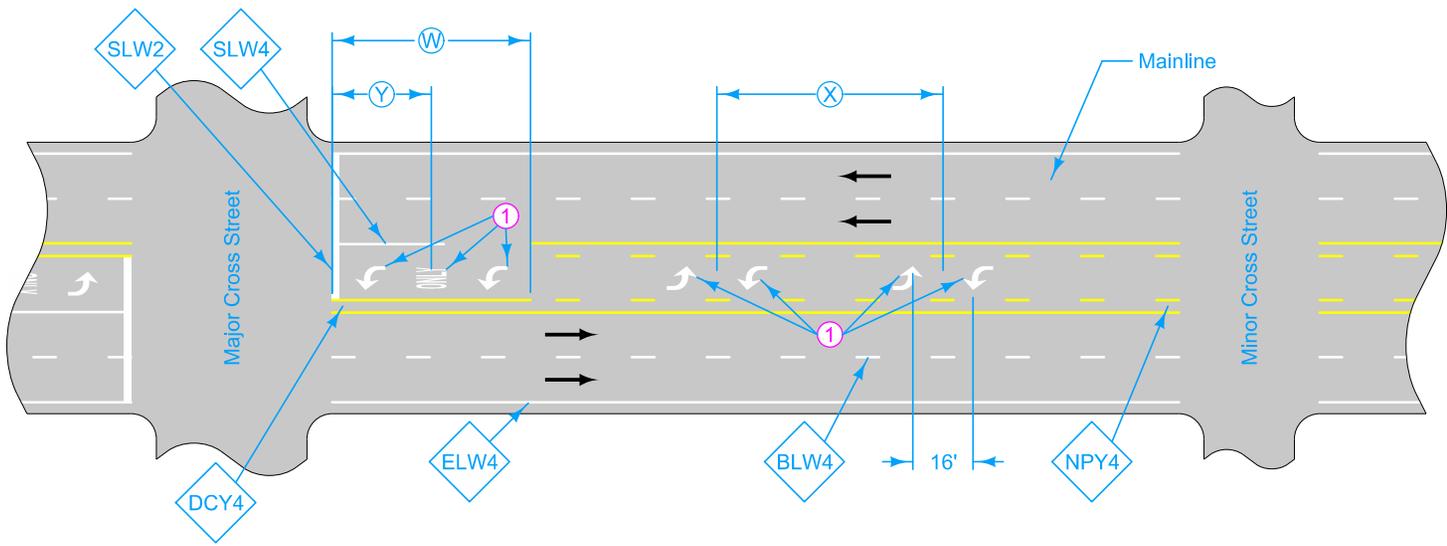
LEGEND	
←	Direction of Traffic
BCY4	Broken Centerline (Yellow)
DCY4	Double Centerline (Yellow)
ELW4	Edge Line Right (White)
NPY4	No Passing Zone Line (Yellow)
SLW2	Stop Line (White)

DCY4 or NPY4 (If required by sight distance)

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
[108-22](#)

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-620
REVISIONS: New logo.	SHEET 1 of 1
APPROVED BY DESIGN METHODS ENGINEER	
TWO-LANE ROADWAY WITH NO TURN LANES (FOUR-WAY STOP CONDITION)	



Major Cross Street
Mainline Stop or Signalized Condition

Minor Cross Street
No Mainline Stop or Signalized Condition

Terminate all mainline centerline markings at the edge of the property line.

Spacing between center of Symbols and Legends used within Left Turn Only Storage Length is 37½ feet.

For line information, see [PM-110](#).

For symbol and legend information, see [PM-111](#).

① Symbol and Legend (when listed in 108-29).

Ⓜ Storage Length to be 150 feet minimum.

ⓧ Typical spacing (in feet) between sets of arrows should be approximately 10 times the speed limit (MPH) or one set located at mid-block.

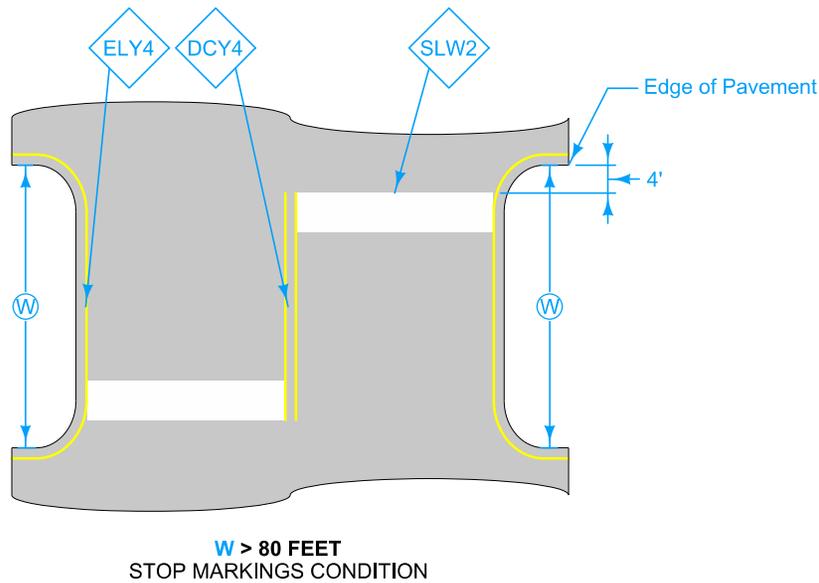
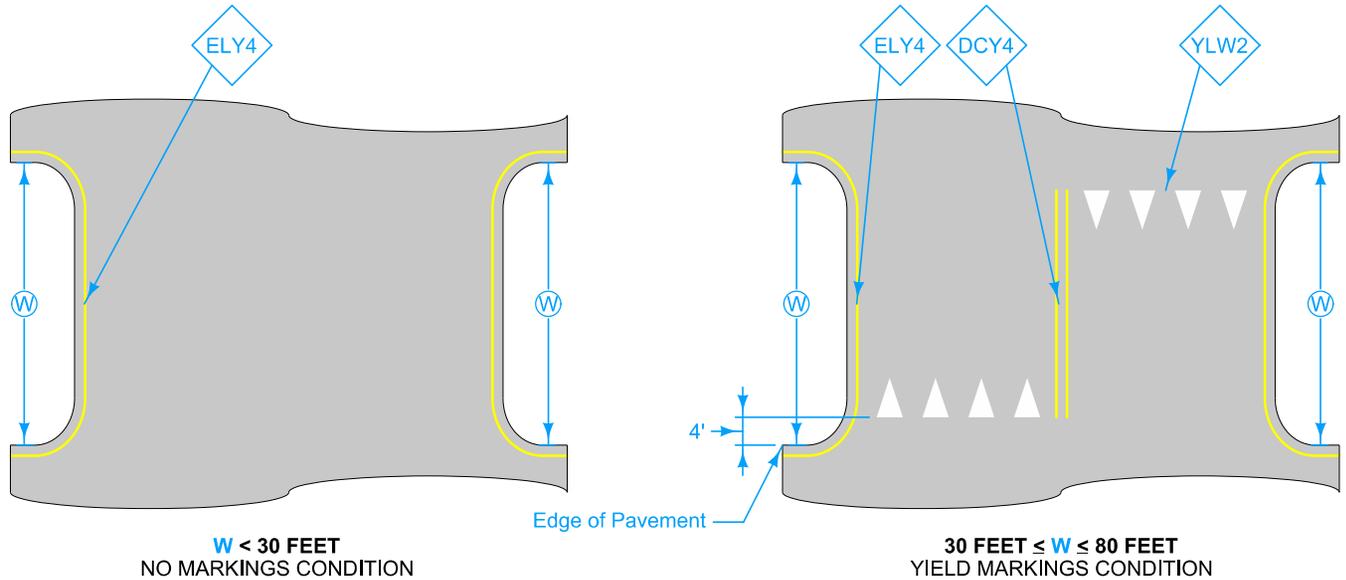
Ⓨ Distance from lane line termination to center of Left Turn Only Symbol and Legend is ½ the Storage Length.

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

Possible Tabulations:
[108-22](#)
[108-29](#)

LEGEND			
←	Direction of Traffic	NPY4	No Passing Zone Line (Yellow)
BLW4	Broken Lane Line (White)	SLW2	Stop Line (White)
DCY4	Double Centerline (Yellow)	SLW4	Solid Lane Line (White)
ELW4	Edge Line Right (White)		

IOWA DOT	REVISION	
	1	10-15-19
STANDARD ROAD PLAN		PM-650
REVISIONS: New Logo.		SHEET 1 of 1
<small>APPROVED BY DESIGN METHODS ENGINEER</small>		
MULTI-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE		



LEGEND	
←	Direction of Traffic
DCY4	Double Centerline (Yellow)
ELY4	Edge Line Left (Yellow)
SLW2	Stop Line (White)
YLW2	Yield Line (White)

W is the width between pavement edges. Measure W from pavement edge to pavement edge. When W values are different, use the smaller of the two.

Omit median edge lines if neither connecting side road has painted edge lines.

For line information, see PM-110.

Possible Contract Item:
Pavement Marking Line Items

Possible Tabulation:
108-29

	REVISION
	1 10-15-19
STANDARD ROAD PLAN	PM-760
REVISIONS: New logo.	SHEET 1 of 1
 APPROVED BY DESIGN METHODS ENGINEER	
DIVIDED MULTI-LANE ROADWAY MEDIAN	