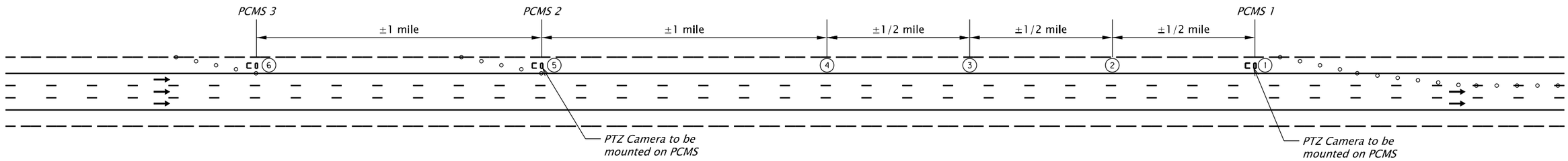
DYNAMIC LATE-LANE MERGE - SYSTEM LAYOUT



DYNAMIC LATE-LANE MERGE - SYSTEM TRIGGERS and PCMS MESSAGES

POSTED SPEED (mph)	TRAFFIC SENSORS				
50	1	2	3	4	5
Queue Length (mi)	TRAFFIC CONDITION				
0	F	F	F	F	F
0–0.5	M	F	F	F	F
0–0.5	S	F	F	F	F
0.5–1.0	SG	M	F	F	F
0.5–1.0	S/A	NF	F	F	F
1.0–1.5	A	A	NF	F	F
1.5–2.5	A	A	A	NF	F
≥ 2.5	A	A	A	A	NF

PCMS 1		PCMS 2		PCMS 3	
Panel 1	Panel 2	Panel 1	Panel 2	Panel 1	Panel 2
{Blank}	{Blank}	ROAD WORK 2 MILES	SLOW FOR WORKERS	{Blank}	{Blank}
{Blank}	{Blank}	SLOWED TRAFFIC AHEAD	PREPARE TO SLOW	{Blank}	{Blank}
{Blank}	{Blank}	STOPPED TRAFFIC AHEAD	PREPARE TO STOP	{Blank}	{Blank}
{Blank}	{Blank}	SLOW TRAFFIC AHEAD	PREPARE TO SLOW	SLOWED TRAFFIC 3 MILES	WATCH FOR SLOW TRAFFIC
{Blank}	{Blank}	STOPPED TRAFFIC AHEAD	PREPARE TO STOP	STOPPED TRAFFIC 3 MILES	WATCH FOR SLOW TRAFFIC
MERGE HERE	TAKE TURNS	USE ALL LANES	TO MERGE POINT	STOPPED TRAFFIC AHEAD	PREPARE TO STOP
MERGE HERE	TAKE TURNS	USE ALL LANES	TO MERGE POINT	PREPARE TO STOP	USE ALL LANES
MERGE HERE	TAKE TURNS	USE ALL LANES	TO MERGE POINT	PREPARE TO STOP	USE ALL LANES

Symbol	Trigger Speed, V (mph)	
F	>45	Free Flow
NF	35–45	Non-Free Flow
M	25–35	Moderate/ Slowed
SG	>0–25*	Stop/ Go
S	0**	Stopped
A	>0	Any condition. Speed varies between stoppage point & taper.

NOTES:

- *Queue length values are measured from start of lane closure taper.*
- *Condition thresholds shown based on a posted speed of 50 mph. "V" values should be adjusted for different posted speeds (see table, left).*

** Traffic is not stopped.*
*** Traffic is frequently stopped for more than ~5 seconds.*

GENERAL NOTES:

- *Place smart workzone system components and program system PCMS as directed or as shown.*
- *Install PCMS per ODOT Standard Drawing TM800.*
- *Distances displayed on PCMS Messages are based on actual spacing of traffic sensors and final location of PCMS. Adjust PCMS Messages, as needed, to match field placement conditions.*

° ° ° *Temp. plastic drums. See TCD Spacing Table on TM800 for max. spacing*

→ *Direction of Traffic*

▭ *Portable Changeable Message Sign (PCMS)*

⊐ *8' Type III (L, R, OR C) Barricade*

(X) *Traffic Sensor (X=Number)*

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

SMART WORK ZONE SYSTEM
DYNAMIC LATE-LANE MERGE

DETAIL NO.
DET4770

DET4770.dgn 01-AUG-2019

DET4770