

	LEGEND										
	Type 3 Barricade		Channelizing Devices								
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)								
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)								
-	Sign	♦	Traffic Flow								
$\Diamond$	Flag	LO	Flagger								
Minimum Suggested Maximum											

	<u> </u>											
Posted Speed	Formula	D	Minimum esirab er Leng <del>XX</del>	le	Spaci: Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space "B"				
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance					
30	2	150′	165′	180′	30′	60′	120′	90′				
35	$L = \frac{WS^2}{60}$	205′	225′	245′	35′	70′	160′	120′				
40	80	265′	295′	320′	40′	80′	240'	155′				
45		450′	495′	540′	45′	90′	320′	195′				
50		500′	550′	600′	50′	100′	400′	240′				
55	L=WS	550′	605′	660′	55′	110′	500′	295′				
60	L-#3	600′	660′	720′	60′	120′	600′	350′				
65		650′	715′	780′	65′	130′	700′	410′				
70		700′	770′	840′	70′	140′	800′	475′				
75		750′	825′	900′	75′	150′	900′	540′				

- X Conventional Roads Only
- \*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE								
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
	1	1	✓	✓					

### GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. Stockpiled material should be placed a minimum of 30 feet from
- nearest traveled way.

  4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- 6. See TCP(5-1) for shoulder work on divided highways, expressways and
- 7. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- 8. CW21-5 "SHOULDER WORK" signs may be used in place of CW21-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

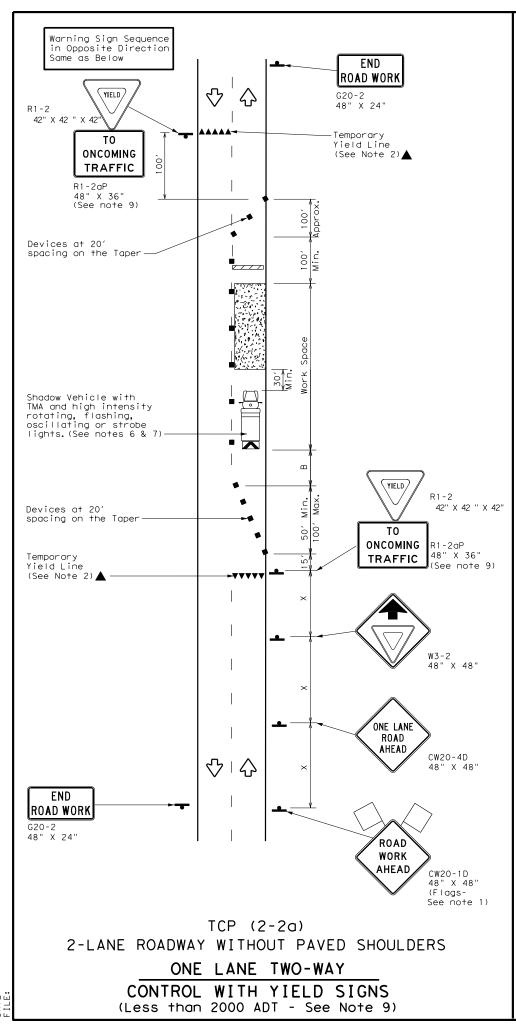
For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

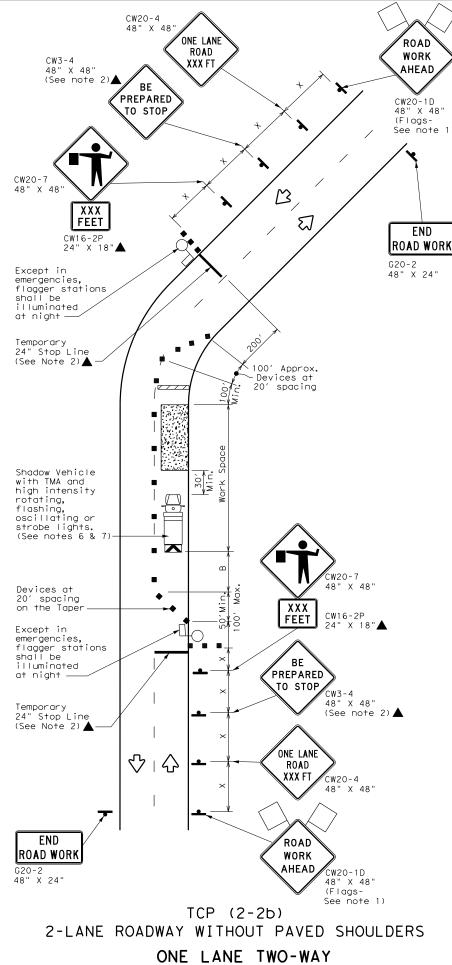


TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-12

©TxDOT December 1985	DN: TX	TOO	CK: TXDOT	DW: TX	DOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB		HIC	HWAY
2-94 2-12 8-95						
1-97	DIST		COUNTY			SHEET NO.
4-98						





CONTROL WITH FLAGGERS

	LEGEND									
	Type 3 Barricade		Channelizing Devices							
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)							
-	Sign	♡	Traffic Flow							
$\Diamond$	Flag		Flagger							

Posted Formula Speed		* * *			Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	Stopping Sight Distance
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	2	150′	165′	180′	30′	60′	120′	90′	200′
35	$L = \frac{WS^2}{60}$	205′	225′	2451	35′	70′	160′	120′	250′
40	80	265′	295′	320′	40′	80′	240′	155′	305′
45		450′	495′	540′	45′	90′	320′	195′	360′
50		500′	550′	600′	50′	100′	400′	240′	425′
55	L=WS	550′	605′	660′	55′	110′	500′	295′	495′
60	L - W 3	600′	660′	720′	60′	120′	600′	350′	570′
65		650′	715′	780′	65′	130′	700′	410′	645′
70		700′	770′	840′	70′	140′	800′	475′	730′
75		750′	8251	900′	75′	150′	900′	540′	820′

\* Conventional Roads Only

 $\fint XX$  Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE									
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
	1	1	1						

## GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol
  may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved
  by the Engineer.
- 3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
- 4. Flaggers should use two-way radios or other methods of communication to control traffic.
- 5. Length of work space should be based on the ability of flaggers to communicate.
- 6. A Snadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

## TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.

9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

# TCP (2-2b)

- 10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- 11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
- 12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situtations.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

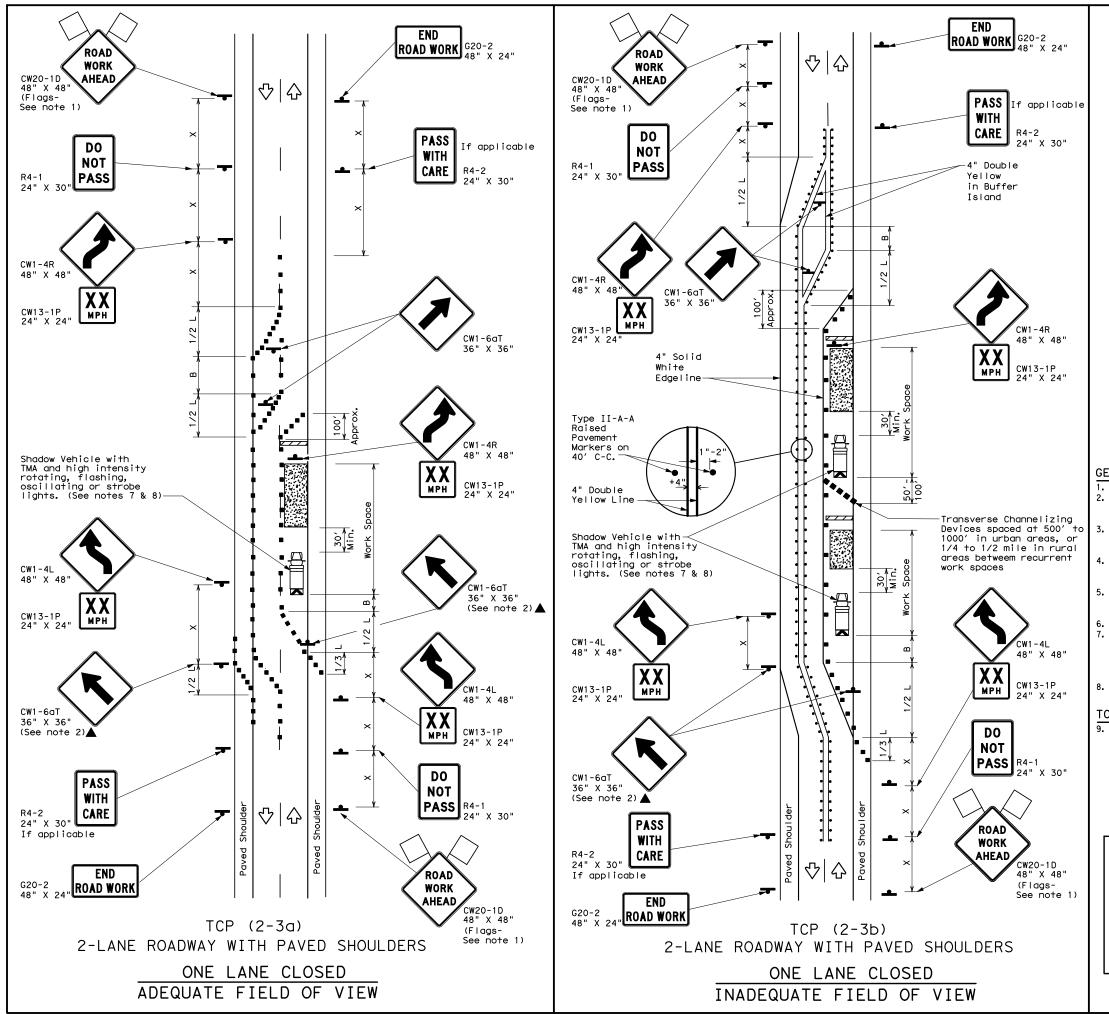


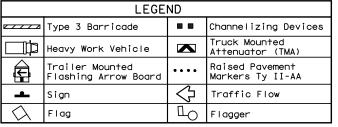
TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(2-2)-12

© TxDOT December 1985		DN: TXDOT		CK: TXDOT DW:		TXDOT	CK: TXDOT		
	CONT	SECT	JOB		HI	HIGHWAY			
-95 2 -97	2-12								
-98			DIST	COUNTY				SHEET NO.	
03									







Posted Speed	Formula	Minimum Desirable Taper Lengths **			Spaci: Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	, ws²	150′	165′	180′	30′	60′	120′	90′	
35	$L = \frac{WS^{-}}{60}$	205′	225′	245′	35′	70′	160′	120′	
40	80	265′	295′	320′	40′	80′	240′	155′	
45		450′	495′	540′	45′	90′	320′	195′	
50		500′	550′	600′	50′	100′	400′	240′	
55	l=WS	550′	605′	660′	55′	110′	500°	295′	
60		600′	660′	720′	60`	120′	600′	350′	
65		650′	715′	780′	65′	130′	700′	410′	
70		700′	770′	840′	70′	140′	800′	475′	
75		750′	825′	900′	75′	150′	900′	540′	

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE									
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
				TCP (2-3b) ONLY					
			<b>√</b>	1					

### GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- When work space will be in place less than three days existing pavement markings may remain in place. Channelizing devices shall be used to separate traffic.
- . Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Flagger should be positioned at end of traffic queue. The R4-1 "DO NOT PASS," R4-2 " PASS WITH CARE" and construction
- regulatory speed zone signs may be installed within CW20-1D "ROAD WORK AHEAD" signs. Proper spacing of signs shall be maintained.
- Conflicting pavement marking shall be removed for long term projects.
- 7. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place. Type 3 Barricades or other channelizing devices may be substituted.
- 8. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

## TCP (2-3a)

9. Conflicting pavement markings shall be removed for long-term projects.
For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of the conflicting markings, not the entire work zone.

For construction or maintenance contract work. specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.



TRAFFIC CONTROL PLAN TRAFFIC SHIFTS ON TWO-LANE ROADS

TCP(2-3)-12

©1	ΓxDOT	December	1985	DN: TXD	от	CK: TXDOT	DW:	TXDOT		CK: TXDOT
REVISIONS 8-95 2-12				CONT	SECT	JOB		HIGHWAY		
8-95 2-12 1-97 4-98										
			DIST		COUNTY			S	SHEET NO.	
3-03										

IXDOI December 1985	DN: TXE	ОТ	CK: TXDOT	DW:	TXDOT	CK: TXDOT	
REVISIONS	CONT	SECT	JOB		HIC	HIGHWAY	
2-12							
	DIST	COUNTY			SHEET NO.		