

## XI. BARRICADING AND SIGNING ILLUSTRATIONS

The illustrations contained herein are meant to indicate typical situations and utilization of the traffic control devices described in the text. The use of certain traffic control devices for specific situations is not intended to exclude the use of those traffic control devices for other situations. At all times, however, practices prescribed in the text shall be adhered to. The following is a list of procedures for placement of traffic control devices:

1. Advance warning signs may be placed on:
  - a. Portable sign supports
  - b. Posts
2. For night operations:
  - a. All channelizing devices shall be reflectorized. Cones shall not be utilized alone.
  - b. Through the taper section install arrow signs (T019) spaced at 3S. (See Table XI-1)
  - c. All signs shall be reflectorized, except those controlling parking and pedestrians.
  - d. Install a flashing yellow warning light on each high level warning device.

- e. Horizontal barricade or vertical panels shall have a flashing or steady burning light attached.
3. General Notes:
- a. Where possible, place a vehicle between the work area and the traffic flow.
  - b. Signs shall not be installed on Type I or Type II barricades.
  - c. The predominant color for channelizing devices, shall be orange.
  - d. A high level warning device shall be required for all temporary work in the roadway.
4. Set-up (in order of occurrence):
- a. Temporarily place a high level warning device at the side of the road.
  - b. Place advance warning signs.
  - c. Place channelizing devices for traffic diversions (moving in direction of traffic.)
  - d. Adjust placement of high level warning device.
  - e. Protect the work area.
  - f. Place spoil or equipment between traffic flow and work area when practical.
5. Pick-up
- a) Reverse set-up procedure indicated in #4 above.



Table XI-1

CLASS OF ROAD	WARNING SIGN SPACING IN FEET			TAPER LENGTH (L) IN FEET		CHANNELIZING DEVICE SPACING IN FEET (maximum)				WARNING SIGN MIN. SIZE IN INCHES
						VEHICLE BARRICADES & DRUMS		OTHER**		
	A	B	C	Lane Width		Taper (S)	Tangent	Taper (S)	Tangent	
				10'	12'					
I	*			75	90	Speed limit	Speed limit X 2	15	30	30X30
II	150	150	75	150	200	Speed limit	Speed limit X 2	20	50	30X30
III	300	300	150	400	500	Speed limit	Speed limit X 2	30	80	48X48

ROAD CLASS DEFINITIONS

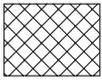
CLASS I – Central Business District, University District

CLASS II – Arterial Streets

CLASS III – All partially or full controlled access arterial streets

\* Advanced warning signs if feasible

\*\* Vertical barricades, cones, tubular guideposts



WORK AREA



TRAFFIC SIGNS ( ARROW DIRECTION INDICATES  
SIGN ORIENTATION )



CHANNELIZING DEVICES ( TRAFFIC CONES, DELINEATOR  
POSTS, DRUMS, VERTICAL PANELS, ETC. )



HIGH LEVEL WARNING DEVICE



FLAGGER ( COUNTERMANDING TRAFFIC SIGNALS  
REQUIRES OFF-DUTY LAW ENFORCE-  
MENT OFFICER )



SURVEY RODMAN



SURVEY TRANSIT



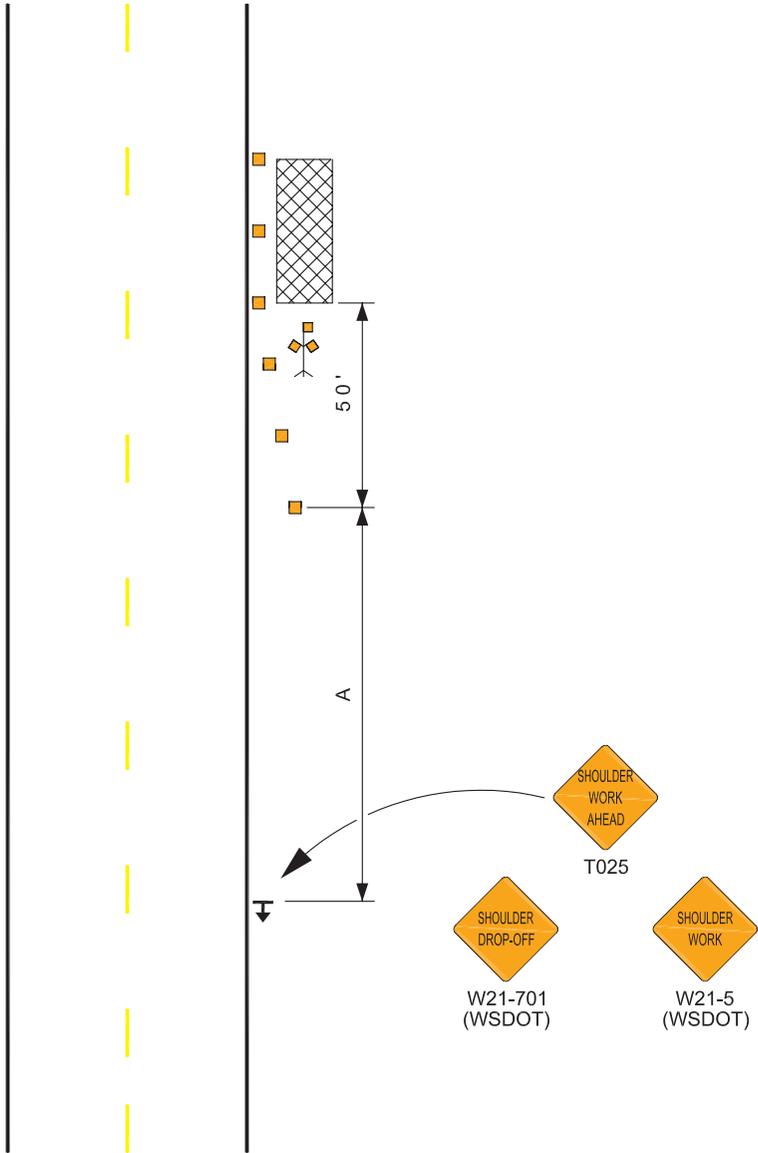
SEQUENTIAL ARROW PANEL

#### NOTES:

1. FOR NIGHT TIME USAGE, REFER TO " WARNING LIGHT APPLI-  
CATIONS DURING NIGHT TIME OPERATIONS", FIGURE X-17.
2. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES  
( SEQUENTIAL ARROWS, BARRICADES, STEEL PLATES )  
MAY BE REQUIRED.
3. CONTACT TRAFFIC SIGNAL OPERATIONS ( 684-5118 )  
BEFORE CLOSURE OF ANY TRAFFIC LANES CONTROLLED  
BY SIGNAL LOOP DETECTORS.

#### SYMBOLS AND LEGENDS

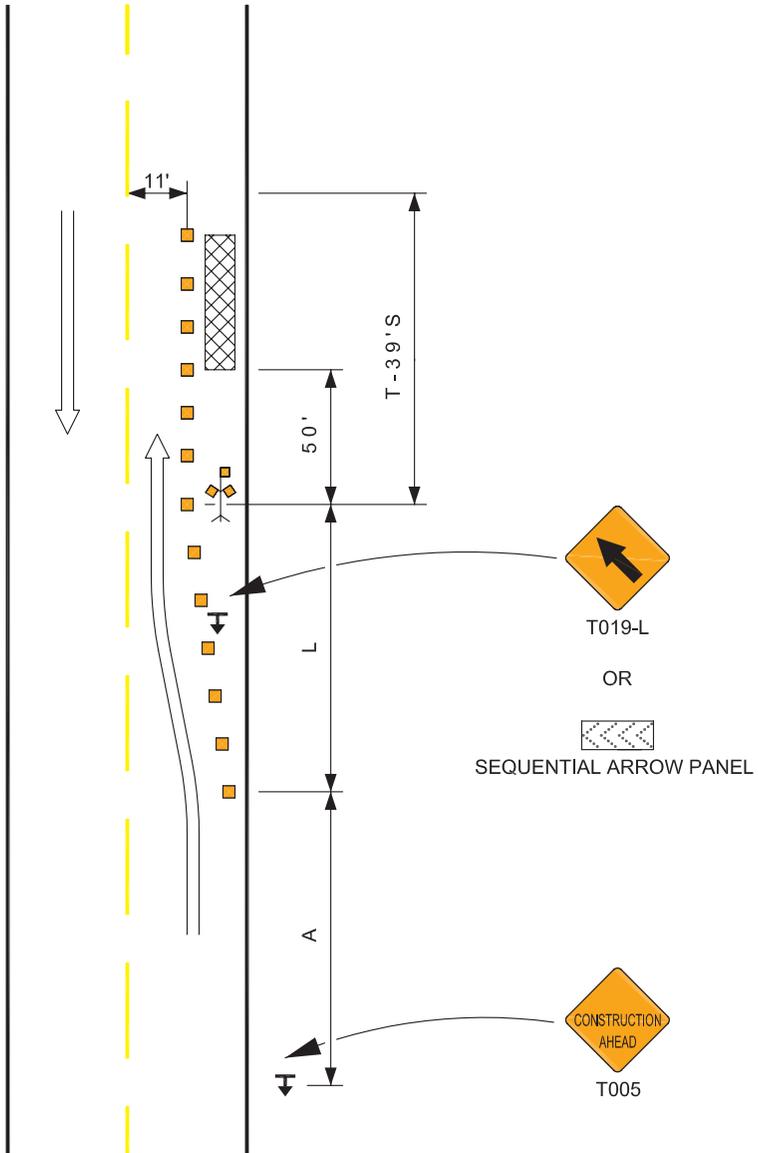
FIGURE X-I



NOTE : REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A

### SHOULDER WORK

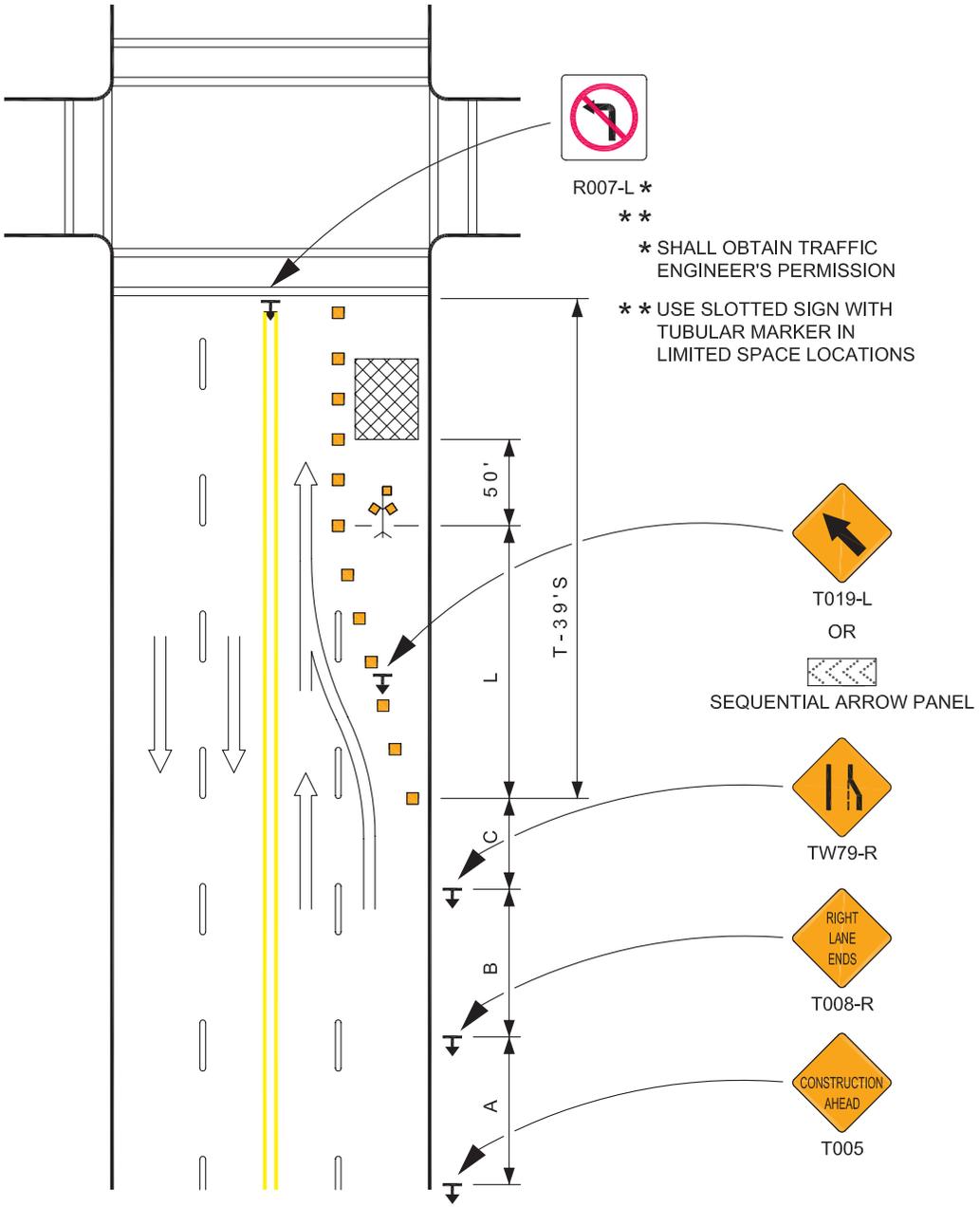
FIGURE X-2



NOTE : REFER TO TABLE X-1 FOR TYPICAL  
DIMENSIONS OF A & L

WORK AREA ON RIGHT SIDE OF STREET  
MINOR ARTERIAL

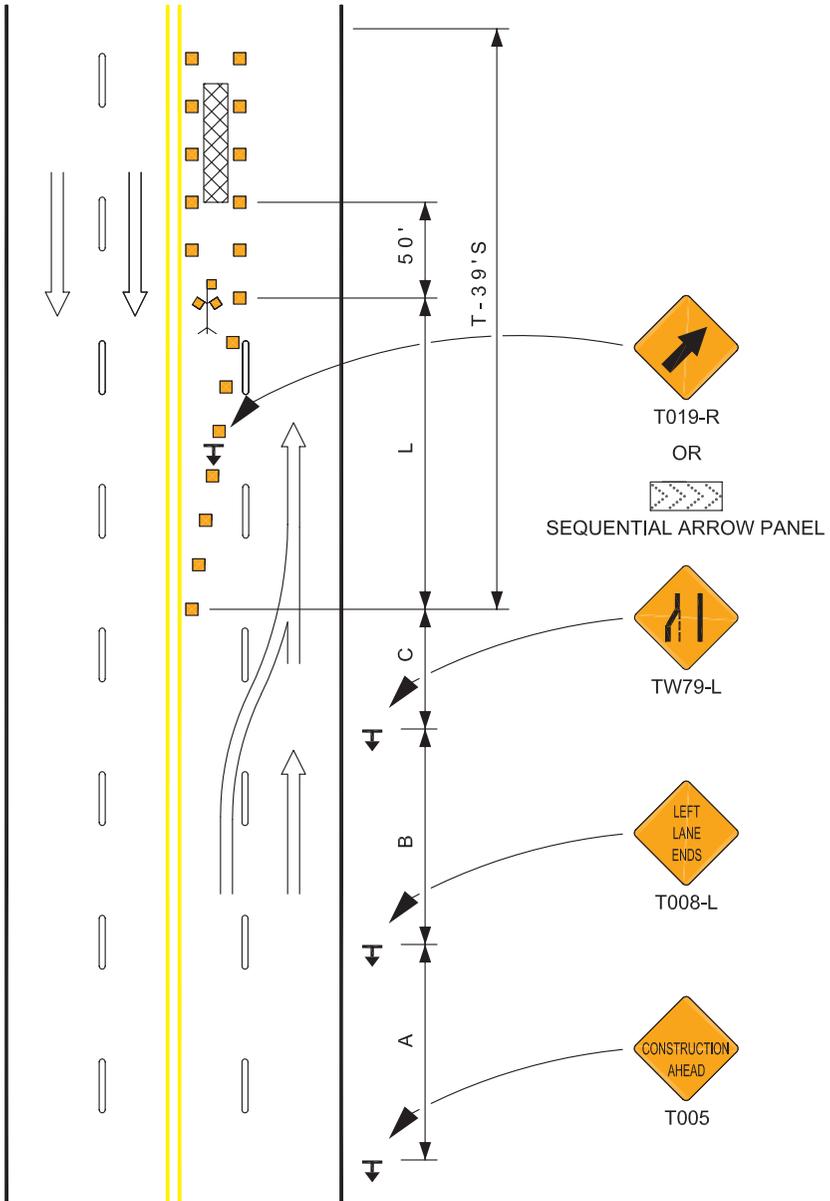
FIGURE X-3



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A, B, C, & L

**RIGHT LANE CLOSURE**  
4 - LANE, 2 - WAY STREET

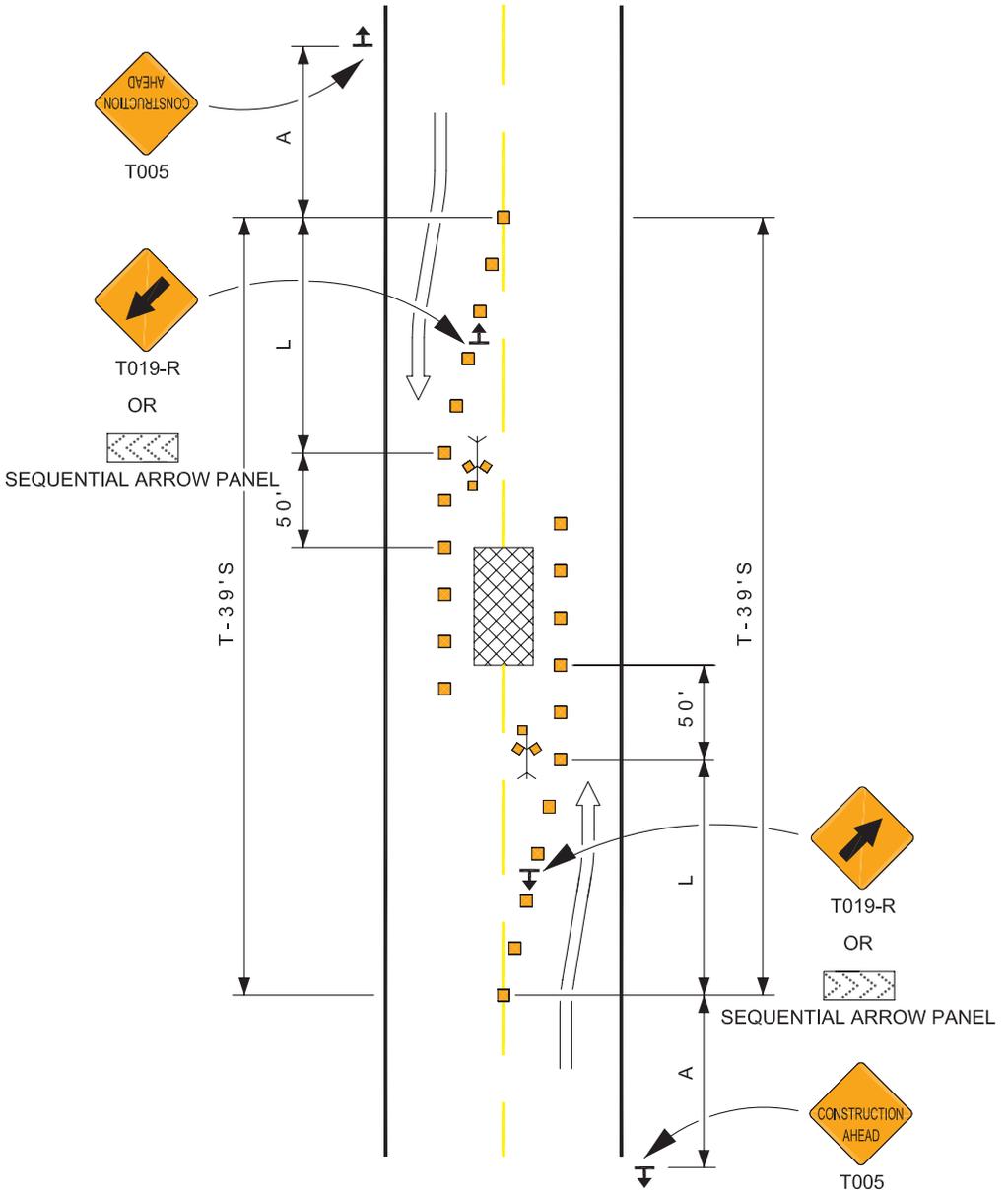
FIGURE X-4



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A, B, C, & L

**LEFT LANE CLOSURE**  
**4 - LANE, 2 - WAY STREET**

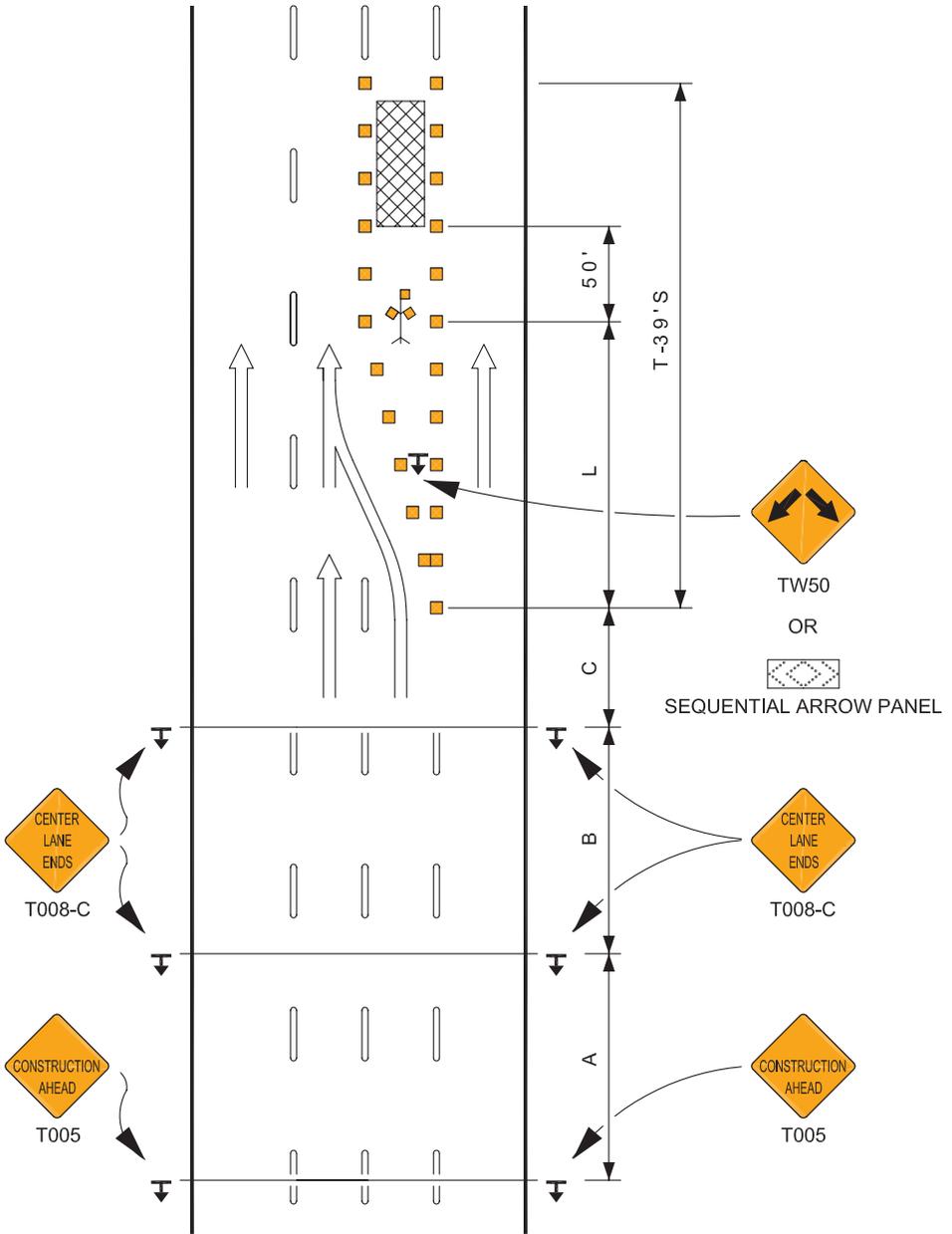
FIGURE X-5



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A & L

WORK AREA IN CENTER OF STREET

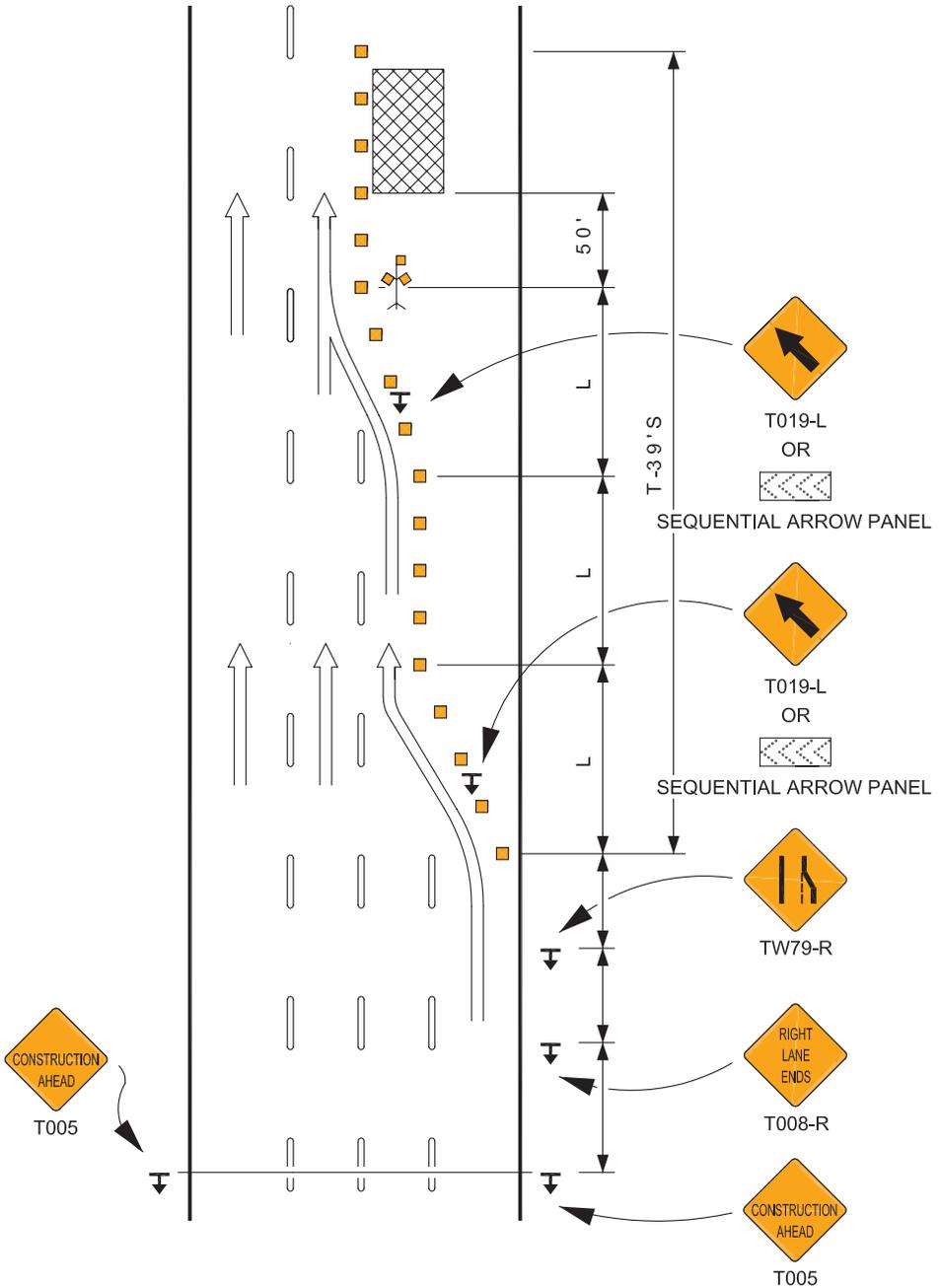
FIGURE X-6



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A, B, C, & L

CENTER LANE CLOSURE  
ONE-WAY STREET

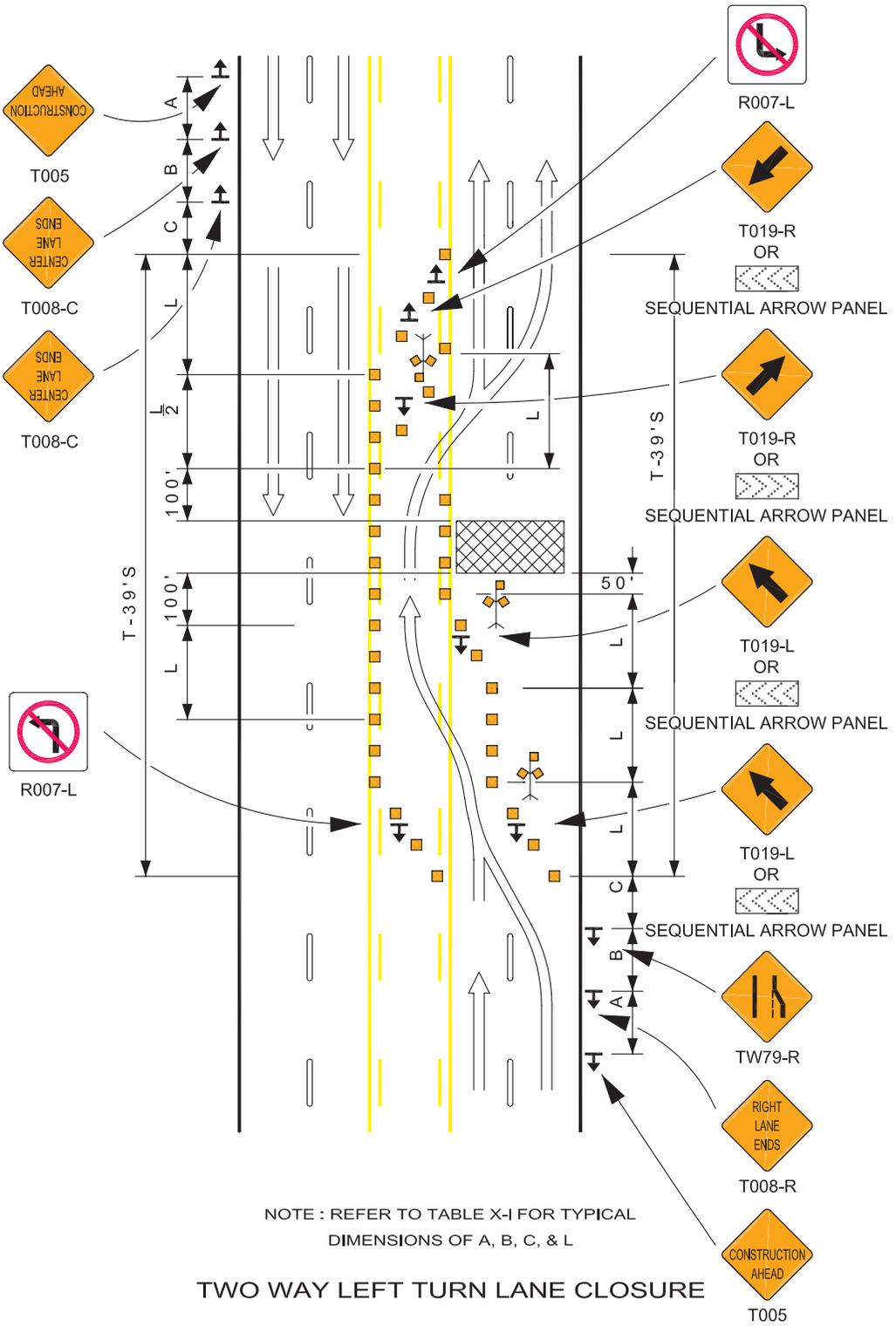
FIGURE X-7



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A, B, C, & L

**MULTIPLE LANE CLOSURE  
ONE-WAY STREET**

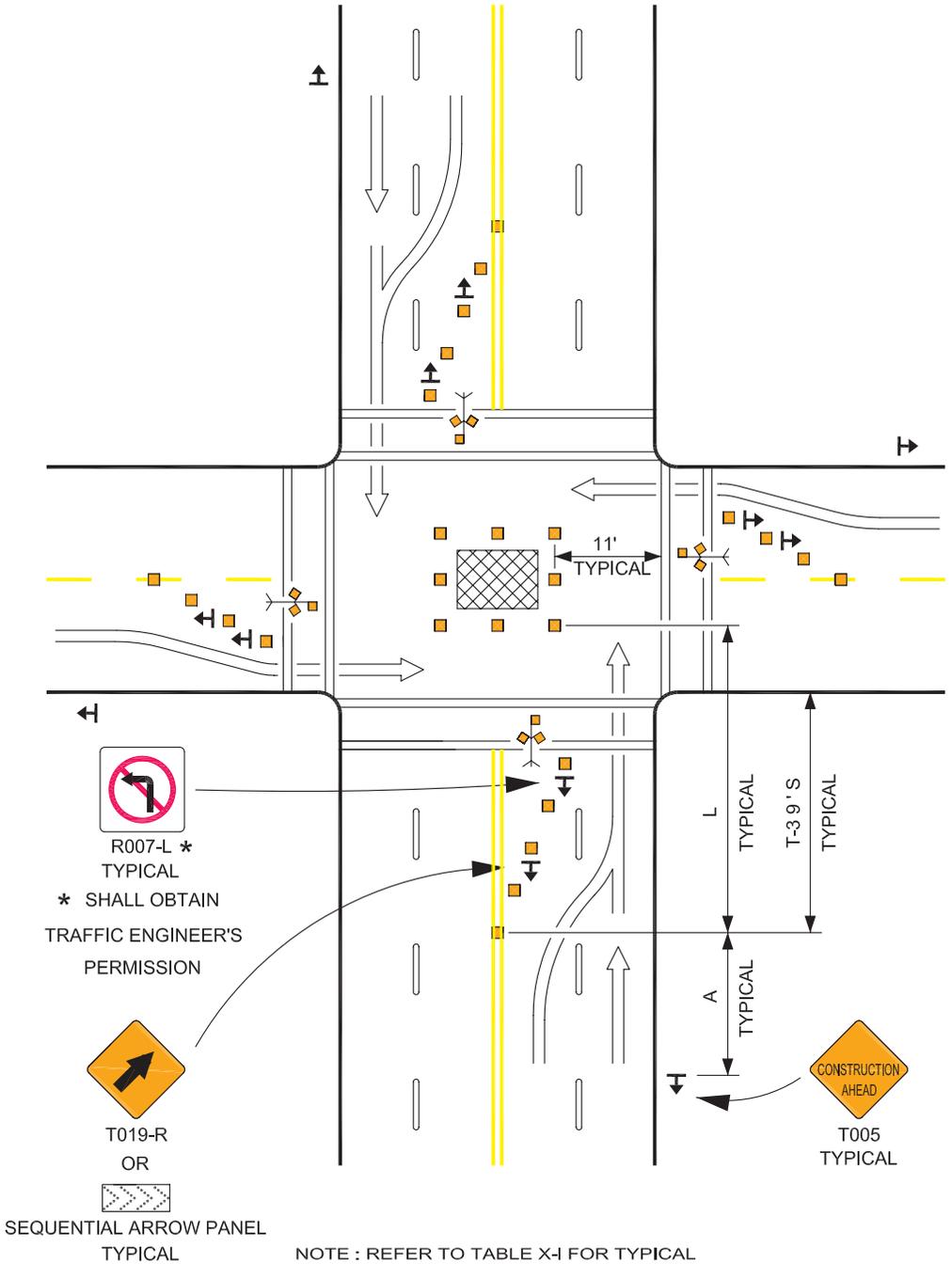
FIGURE X-8



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A, B, C, & L

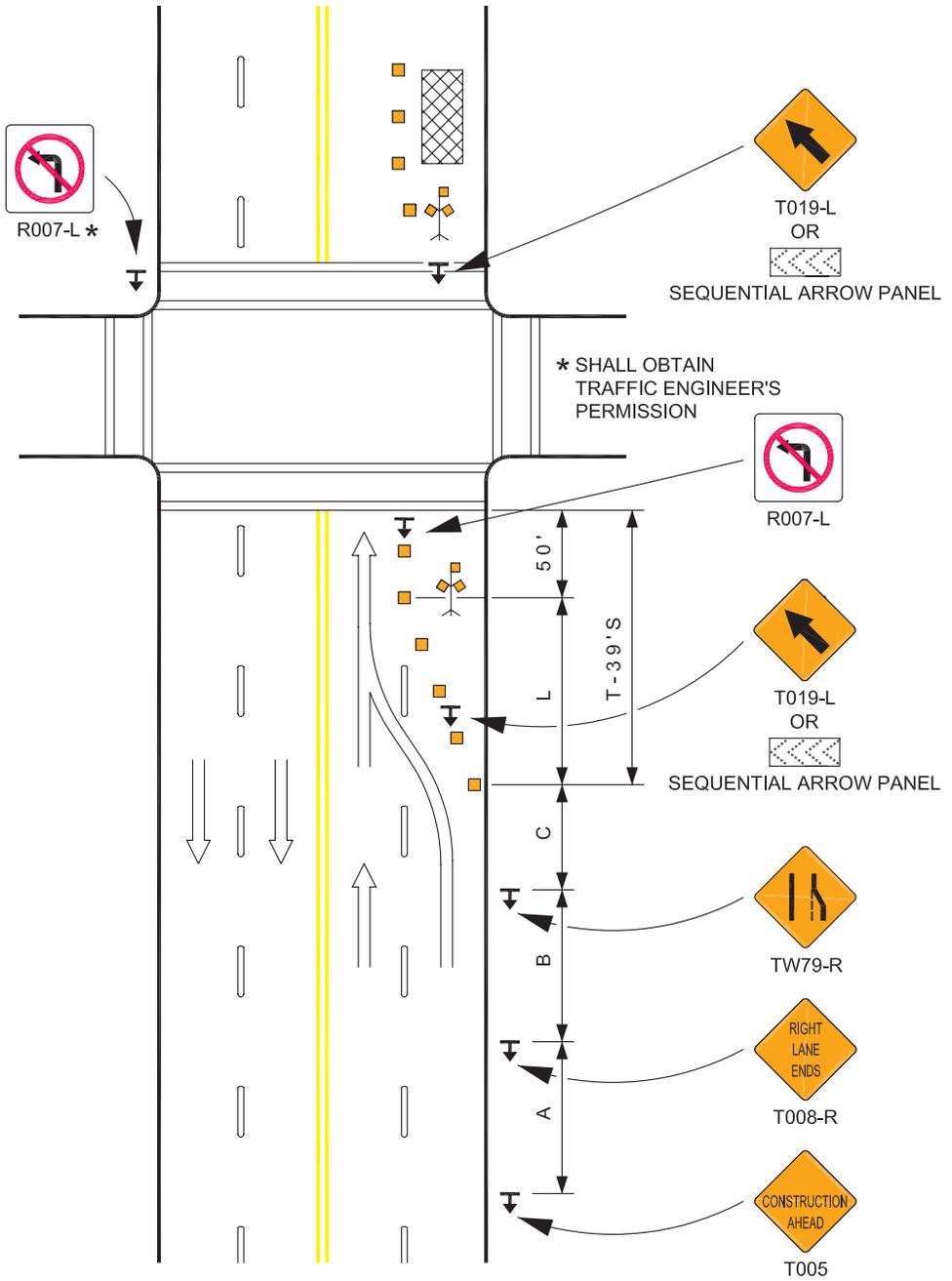
TWO WAY LEFT TURN LANE CLOSURE

T005



WORK AREA IN CENTER OF INTERSECTION

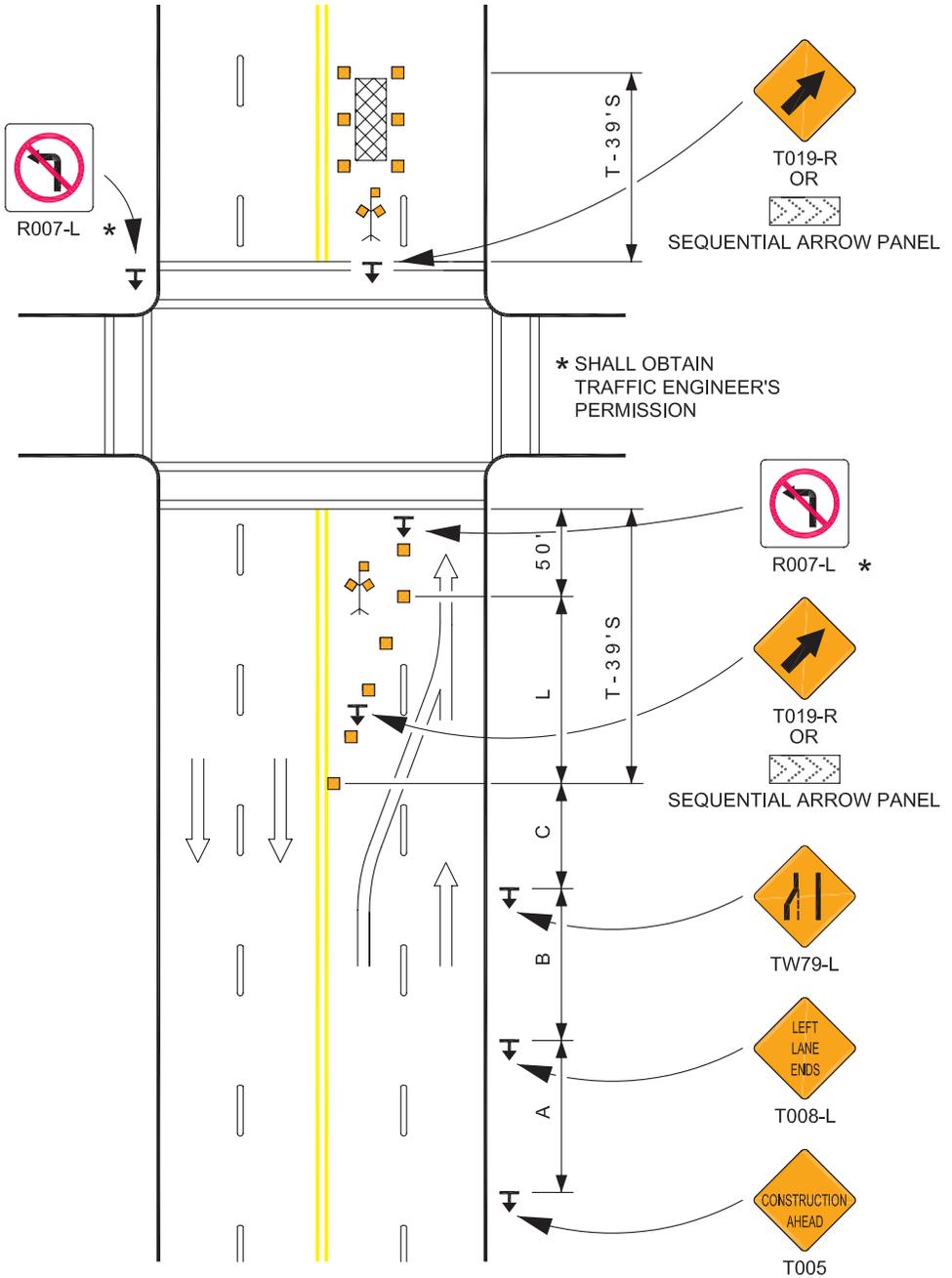
FIGURE X-11



NOTE : REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A,B,C & L

WORK AREA BEYOND INTERSECTION  
CURB LANE

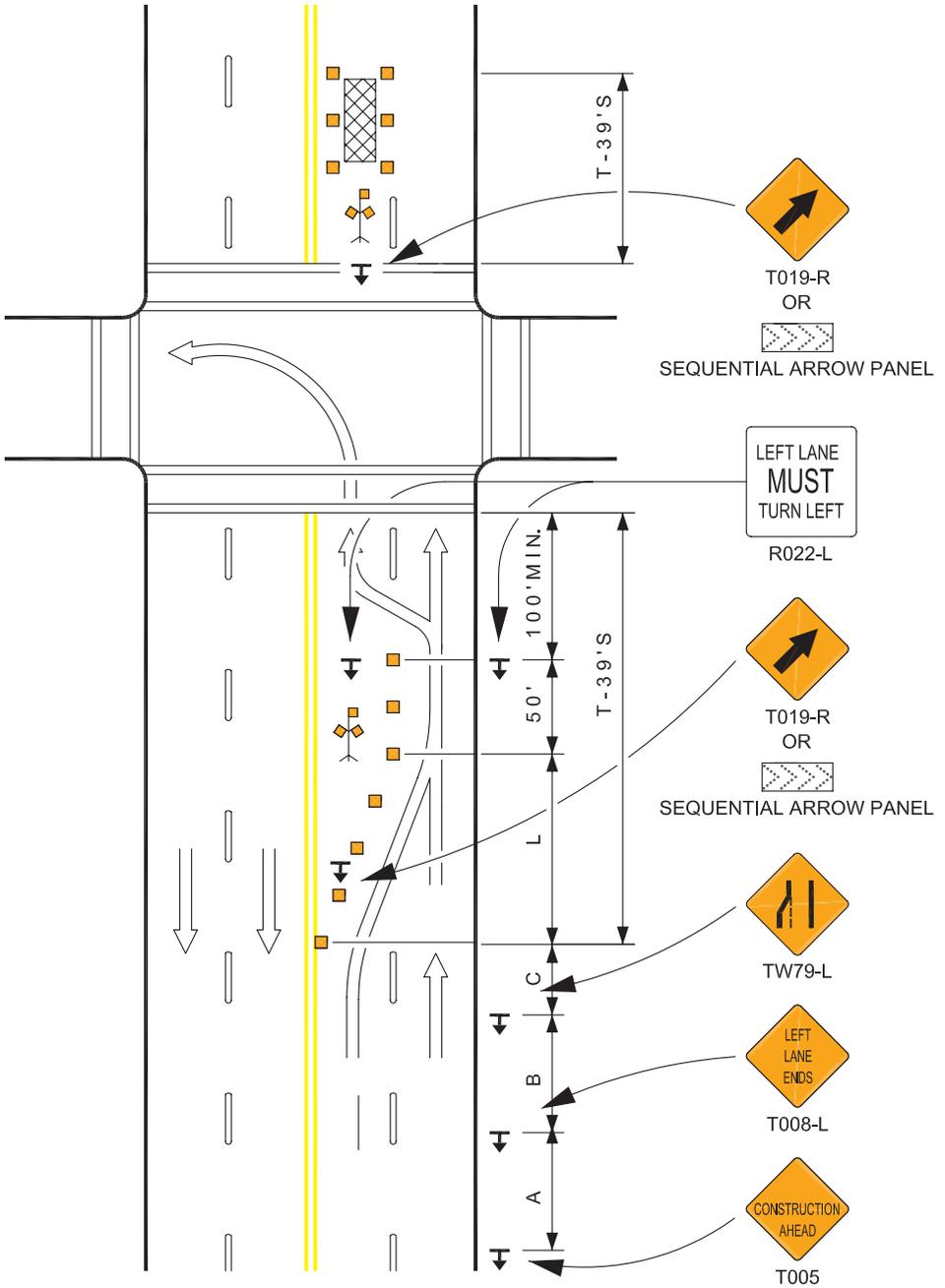
FIGURE X-12



NOTE : REFER TO TABLE X-I FOR TYPICAL DIMENSIONS OF A,B,C & L

WORK AREA BEYOND INTERSECTION  
CENTER LANE

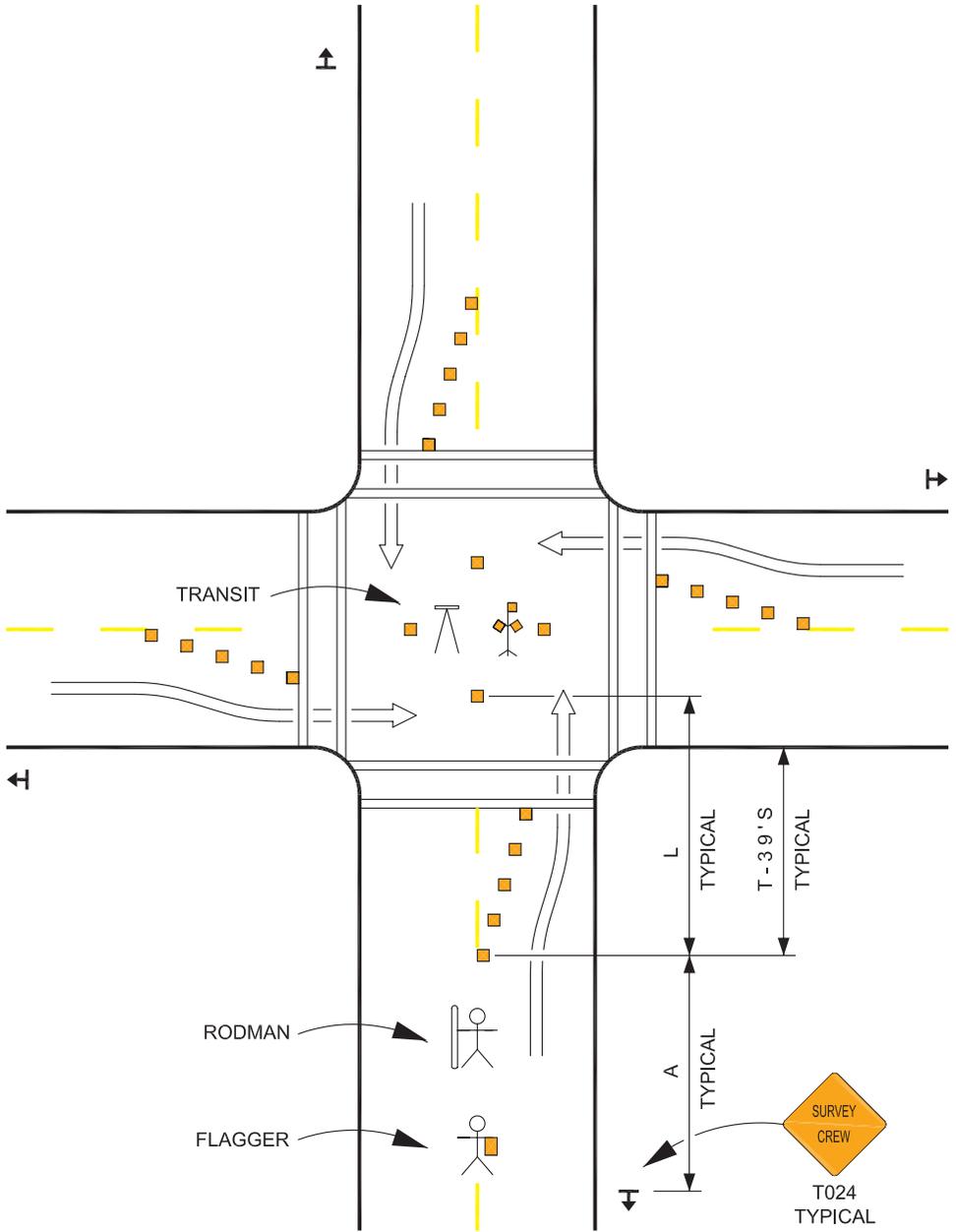
FIGURE X-13



WORK AREA BEYOND INTERSECTION  
 CENTER LANE (LEFT TURN PROVIDED)

FIGURE X-14

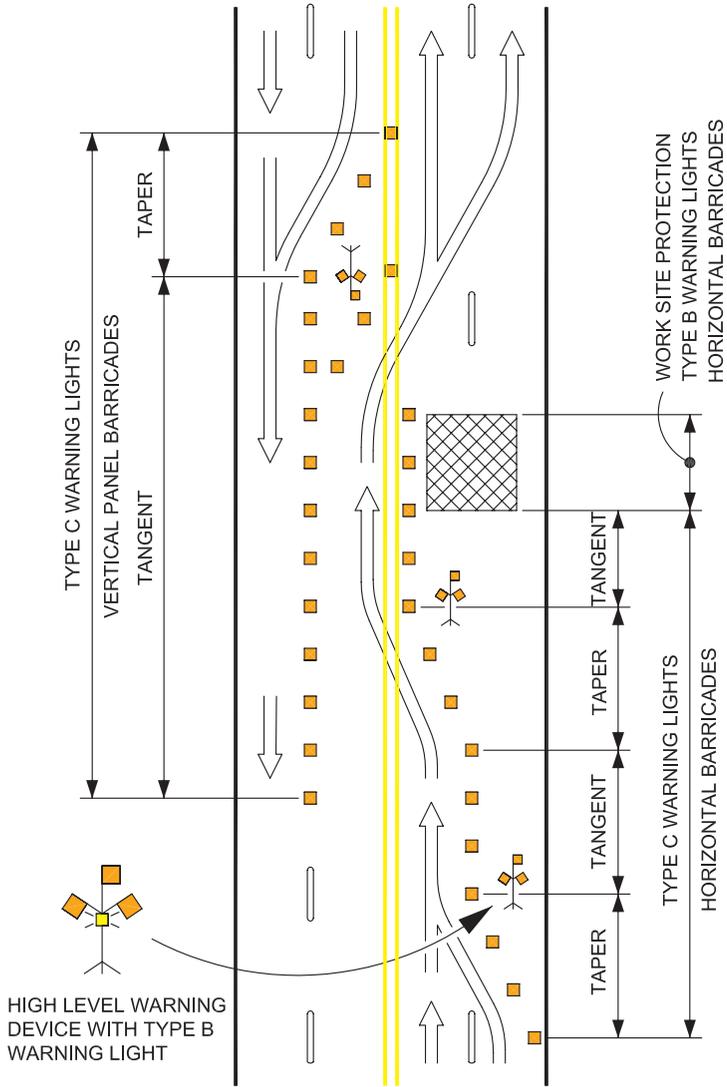




NOTE : REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A & L

**SURVEY CREW  
ARTERIAL STREET**

FIGURE X-16



### WARNING LIGHT TYPES

- TYPE A - LOW LEVEL FLASHING
- TYPE B - HIGH INTENSITY FLASHING
- TYPE C - LOW LEVEL STEADY BURNING

### WARNING LIGHT APPLICATIONS DURING NIGHT TIME OPERATIONS



