

This Certifies that  
**ISAAC CROSS**

Has Completed a Florida Department of Transportation Approved  
Temporary Traffic Control (TTC) Advanced (Refresher) Course.

Date Expires: 05/22/2024  
Instructor: Jason Henley

Certificate # 62279  
FDOT Provider # 145

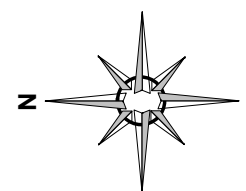
A Plus Training by Ron Henley, LLC  
Phone: 352-339-6553  
9001 SW 124 Street  
Archer, FL 32618  
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MOT SHALL COMPLY WITH THE FDOT DESIGN STANDARDS INDEX 102-600 SERIES & THE MUTCD  
FIELD CONDITIONS MAY VARY  
PLAN NOT TO SCALE

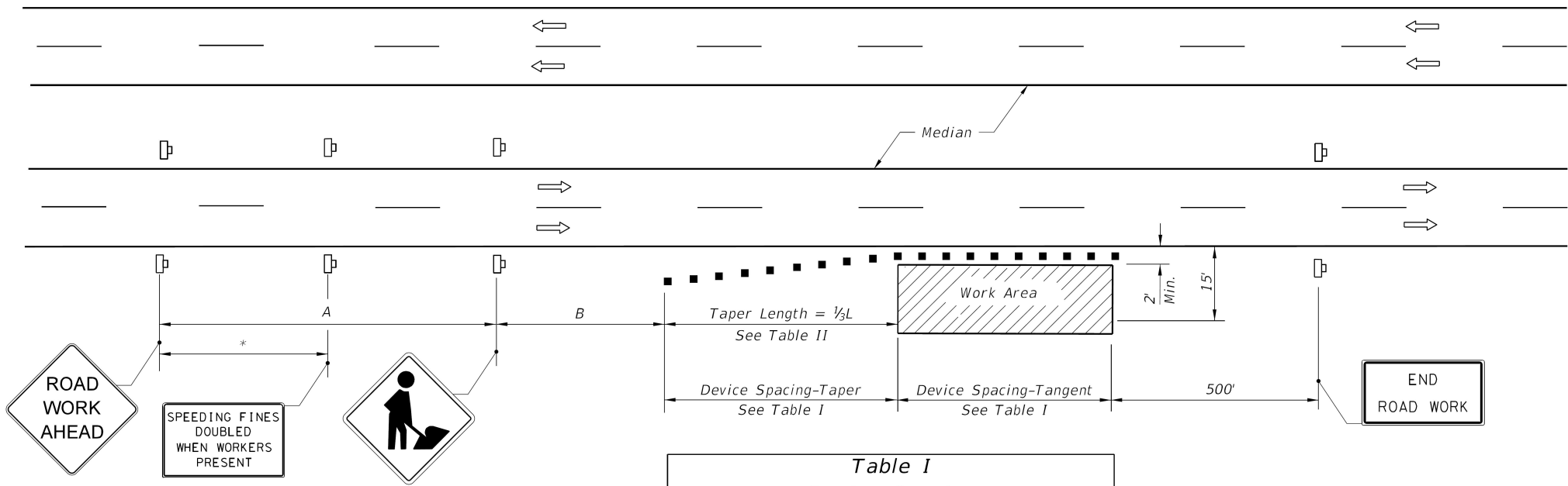
1. All signs shall be post mounted when work operations exceed one day except for:
  - a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown on the APL.
  - b. Pedestrian advanced warning or pedestrian regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
  - c. Median barrier mounted signs per Index 700-013.

### Phase 1 - Florida A1A & NE 2nd St, Pompano Beach, FL





Florida A1A & NE 2nd St, Pompano Beach, FL



DISTANCE BETWEEN SIGNS		
Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

\*250' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Taper Length - Shoulder				
Speed (mph)	1/3 L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	$L = \frac{WS^2}{60}$
30	40	50	60	
35	55	68	82	
40	72	90	107	$L = WS$
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width.

1/3 L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

- When a high volume of work vehicles are entering and leaving the Work Area at speeds slower than 10 MPH below the posted speed, place an MOT-5-06 sign in the ROAD WORK AHEAD sign location and shift the ROAD WORK AHEAD sign upstream 500 ft.
- This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
- When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
- WORKERS signs to be removed or fully covered when no work is being performed.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index 102-600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
  - Work operations are 60 minutes or less.
  - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

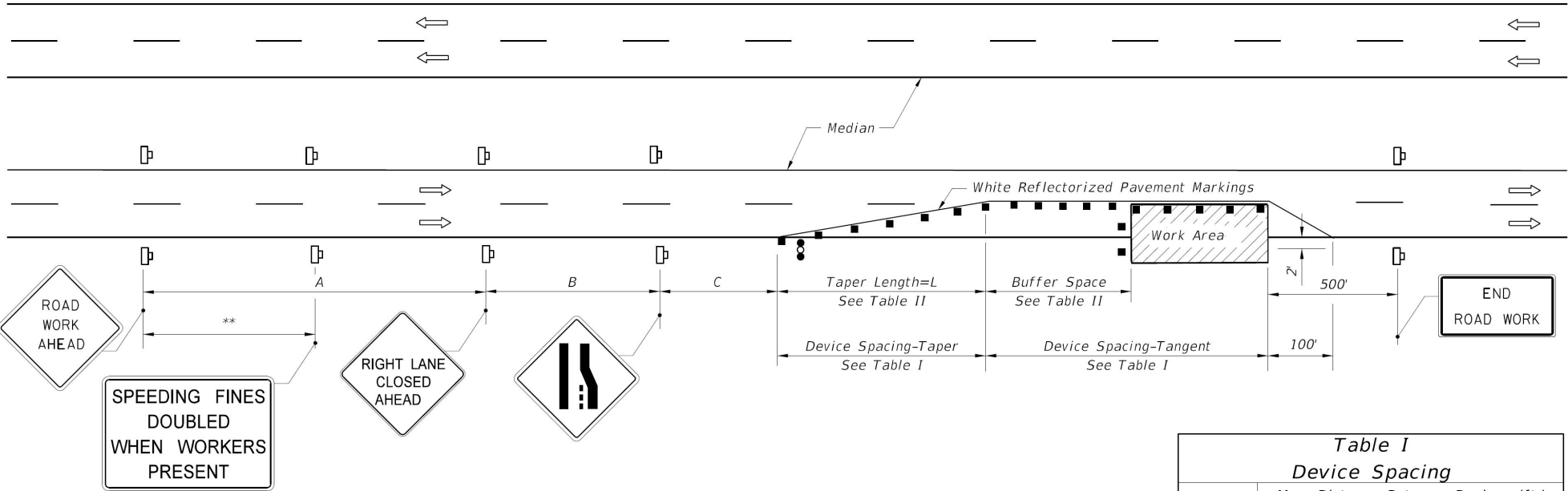


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Florida A1A & NE 2nd St, Pompano Beach, FL

DISTANCE BETWEEN SIGNS				
Speed	Spacing (ft.)			
	A	B	C	
40 mph or less	200	200	200	
45 mph	350	350	350	
50 mph	500	500	500	
*55 mph or greater	2640	1640	1000	

\* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED ½ MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

\*\* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Advance Warning Arrow Board

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

The same applies to undivided highways with the following exceptions:

  - Work shall be confined within one median lane.
  - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index 102-614.
- For general TCZ requirements and additional information, refer to Index 102-600.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Buffer Space and Taper Length			
Speed (mph)	Buffer Space	Taper Length (12' Lateral Transition)	
	Dist. (ft.)	L (ft.)	Notes (Merge)
25	155	125	$L = \frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	L = WS
45	360	540	
50	425	600	
55	495	660	
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use formula for L shown in notes column. Where:

L = Length of taper in feet  
W = Width of lateral transition in feet  
S = Posted speed limit (mph)

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
  - Speed limit is 45 mph or less.
  - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
  - Volume and complexity of the roadway has been considered.
  - The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.



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DESCRIPTION:



FY 2020-21  
STANDARD PLANS

MULTILANE, WORK WITHIN TRAVEL WAY  
MEDIAN OR OUTSIDE LANE

INDEX  
102-613

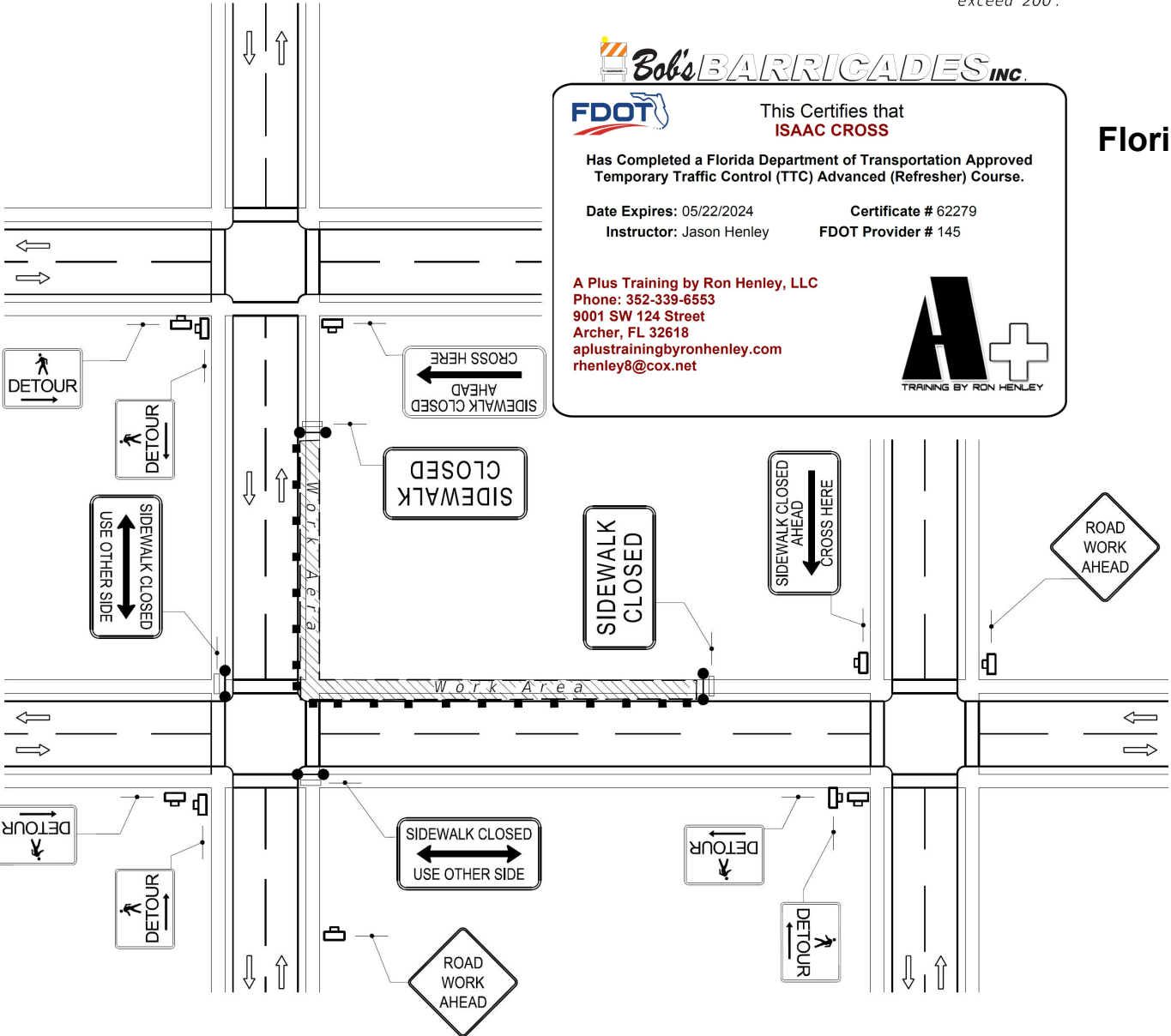
SHEET  
1 of 2

SYMBOLS

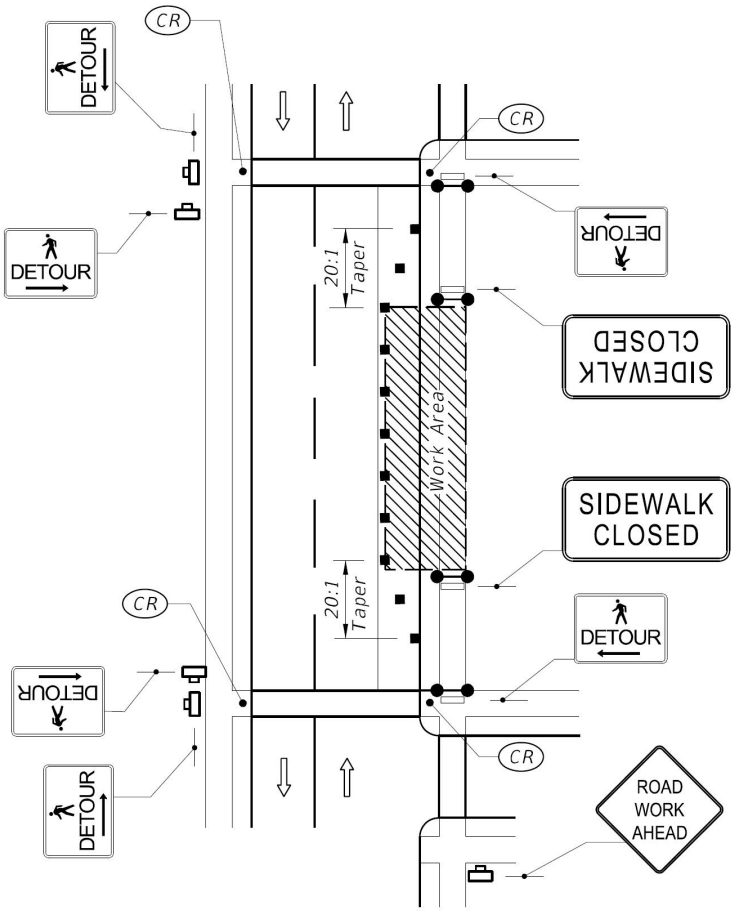
- Work Area
- Channelizing Device
- Work Zone Sign
- Required Locations For Either Temporary Or Permanent Curb Ramps.
- Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device (LCD) with Mounted Work Zone Sign or separate Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Temporary Sidewalk

GENERAL NOTES:

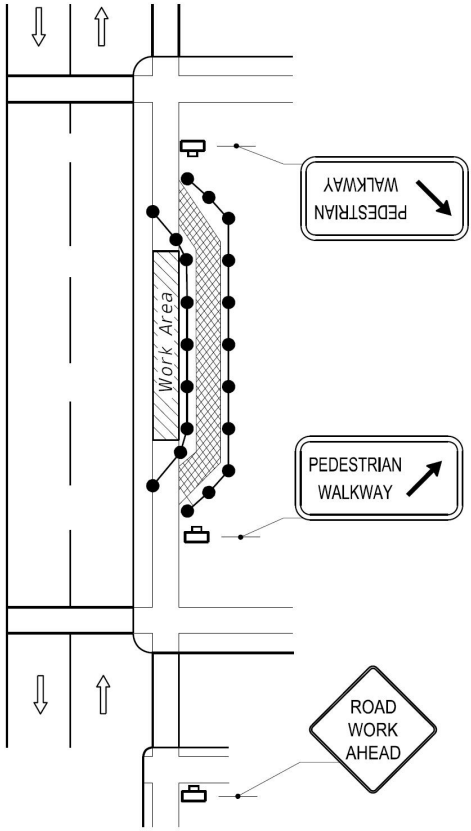
- When encroaching work requires a sidewalk closure for 60 minutes or greater, provide an alternate pedestrian route.
- For spacing of vehicular Channelizing Devices, see applicable vehicular temporary traffic control Indexes.
- Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
- For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
- Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
- Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
- Maintain temporary walkway surfaces and ramps that are stable, firm, slip-resistant, and free of any obstructions or hazards such as holes, debris, mud, construction equipment, and stored material.
- Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
- Meet the requirements of Index 522-002 for temporary curb ramps.
- Place pedestrian longitudinal channelizing device(s) across the full width of the closed sidewalk. For temporary walkways, similar to the Sidewalk Diversion, place LCDs to delineate both sides of the temporary walkway.
- For sidewalk diversions, ensure that there is sufficient R/W for placement of temporary sidewalk and pedestrian longitudinal channelizing devices.



CROSSWALK CLOSURE AND  
PEDESTRIAN DETOUR



SIDEWALK DETOUR



SIDEWALK DIVERSION



Florida A1A & NE 2nd St, Pompano Beach, FL

2/26/2020 12:43:24 PM

LAST REVISION	DESCRIPTION:
11/01/17	

	FY 2020-21 STANDARD PLANS
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PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

INDEX	SHEET
102-660	1 of 1



Notes for Figure 6H-19—Typical Application 19

Detour for One Travel Direction

- Guidance:
- 1. This plan should be used for streets without posted route numbers.
  - 2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.
- Option:
- 3. The STREET CLOSED legend may be used in place of ROAD CLOSED.
  - 4. Additional DO NOT ENTER signs may be used at intersections with intervening streets.
  - 5. Warning lights may be used on Type 3 Barricades.
  - 6. Detour signs may be located on the far side of intersections.
  - 7. A Street Name sign may be mounted with the Detour sign. The Street Name sign may be either white on green or black on orange.
- Standard:
- 8. When used, the Street Name sign shall be placed above the Detour sign.

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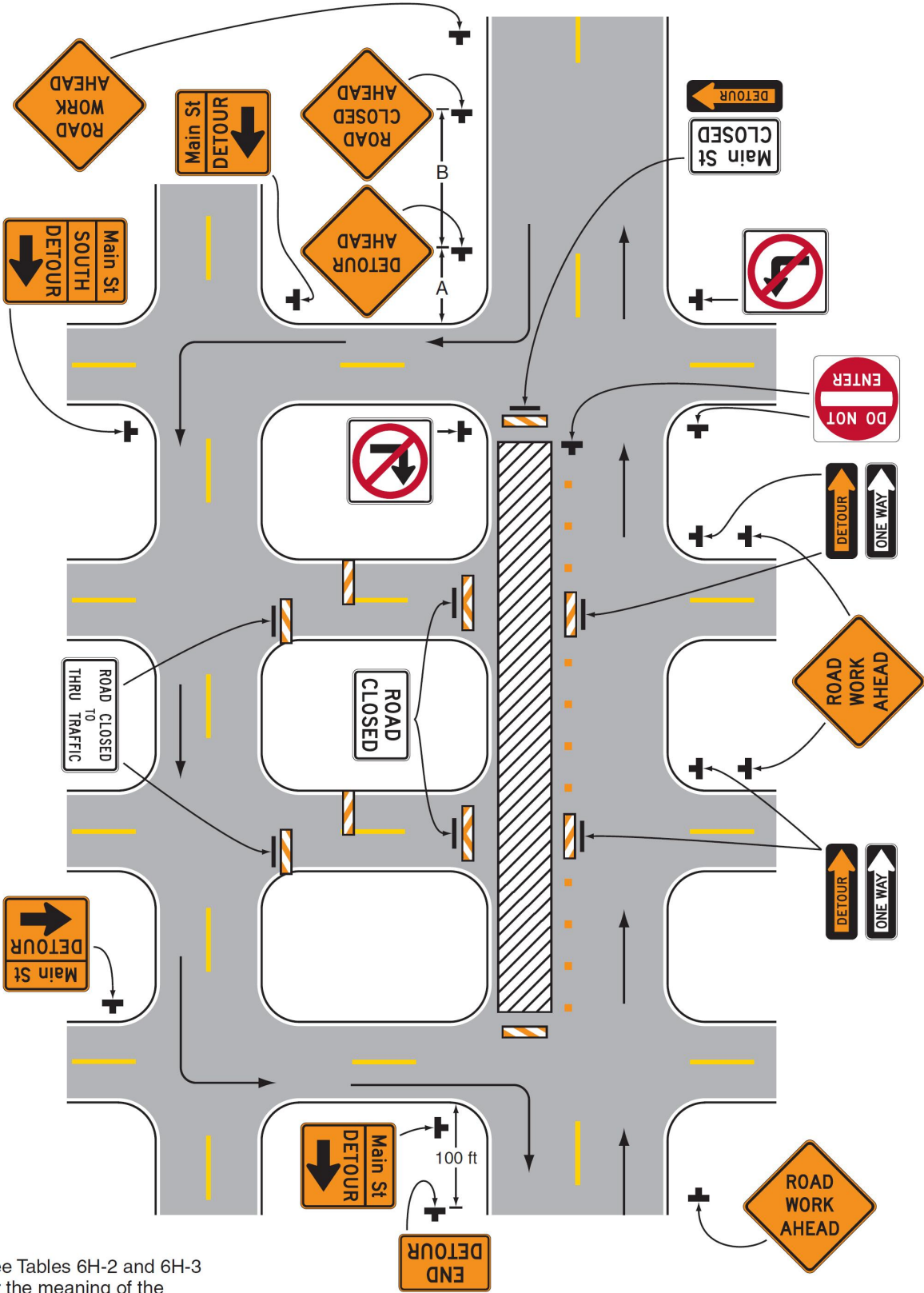
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Figure 6H-19. Detour for One Travel Direction (TA-19)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 19