

## Standard Drawing Index

City of Columbus, Ohio  
Department of Public Service  
Division of Design and Construction

Reference Index of Standard Construction Drawings  
[1500-1599]

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1510	<b>Lane Closures</b> <i>Sheet</i> 1. Right Lane 2. Left Lane 3. 3-Lane Section with Shift 4. 4-Lane Section with Shift 5. 5-Lane Section with Shift	9/15/15
1511	<b>Dynamic Closures</b> <i>Sheet</i> 1. Working Hours 2. Non-Working Hours	9/15/15

STANDARD DRAWING No.	STANDARD DRAWING TITLE	REVISION DATE
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1530	<b>Lane Closures, Central Business District</b> <i>Sheet</i> <ol style="list-style-type: none"> <li>1. Right Lane Closure, Farside with Intersecting One-Way, Dual Turns</li> <li>2. Left Lane Closure, Farside with Intersecting One-Way, Dual Turns</li> </ol>	9/15/15
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1550	<b>Flagging Operations</b> <i>Sheet</i> <ol style="list-style-type: none"> <li>1. Two-Way, One-Lane</li> <li>2. 2-Lane Closure of 3-Lane Section, Nearside</li> <li>3. 2-Lane Closure of 3-Lane Section, Farside</li> </ol>	9/15/15

**NOTES**

**1. ADVANCE WARNING SIGNAGE**

**SIZE:** MINIMUM SIGN SIZE IS 36". INCREASE SIZE TO 48" ON ROADWAYS WITH POSTED SPEED EQUAL TO OR GREATER THAN 45 MPH OR ON ARTERIAL ROADWAYS WITH 4 LANES OR MORE. ONE-WAY STREETS REQUIRE SIGNS POSTED ON BOTH SIDES OF ROADWAY.

**SPACING:** SPACING BETWEEN SIGNS IS 100' FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH AND 350' FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH PER TABLE 2: ADVANCE WARNING SIGNS. FIRST SIGN IN SERIES IS PLACED 100' OR 350' PRIOR TO THE FIRST DRUM OR DEVICE. MAINTAIN 200' CLEARANCE FROM EXISTING SIGNAGE WHENEVER POSSIBLE. INSTALL TYPE A LOW INTENSITY FLASHING LIGHTS ON SIGNS AS DIRECTED BY THE OMUTCD PART 6 SECTION 6F-83, CURRENT EDITION, WHEN TEMPORARY TRAFFIC CONTROL DEVICES ARE USED FOR NIGHTTIME ROADWAY AND PEDESTRIAN MAINTENANCE OF TRAFFIC CONTROL SETUPS.

**CONFLICTING SIGNS:** REMOVE OR COVER EXISTING SIGNS LOCATED WITHIN 250' OF FIRST WARNING SIGN AND ALL CONFLICTING SIGNS WITHIN WORK ZONE. END ROAD WORK SIGNS, G-20-2, SHALL ONLY BE USED WHEN CONSTRUCTION EXCEEDS 180 DAYS, AS WHEN SHOWN IN A ROADWAY MAINTENANCE OF TRAFFIC PLAN, OR AS DIRECTED BY THE ENGINEER.

**2. CHANNELIZING DEVICES**

**DRUMS:** DRUMS SHALL HAVE TYPE C OR TYPE D 360 DEGREE STEADY BURN WARNING LIGHTS FOR USE AT NIGHT. DURING DAYTIME OPERATIONS 42" CHANNELIZING DEVICES MAY BE SUBSTITUTED FOR DRUMS WITH THE PERMISSION OF THE ENGINEER.

**DEVICE SPACING:** 40' ON TANGENTS, 20' TAPERS, 6' TO 8' ON RADII 10' MINIMUM LANE WIDTHS SHALL BE MAINTAINED. A MINIMUM OF 5 DRUMS SHALL BE USED TO CLOSE THE UPSTREAM SHOULDER.

**DRUM MOUNTED SIGNS:** CONTRACTOR MAY USE A POLYPROPYLENE FLUTED SHEET FOR SIGNING WHEN PLACING ON TOP OF DRUMS. SIGNS SHALL BE ATTACHED TO THE DRUMS USING APPROPRIATE HARDWARE. ONLY "KEEP RIGHT", "ONE-WAY", AND TURN RESTRICTION SIGNS SHALL BE POSTED ON TOP OF DRUMS.

ALL SIGNS SHALL MAINTAIN RETROREFLECTIVITY. SIGN SUBSTRATE SHALL CONFORM TO FHWA SIGN SUBSTRATES FOR PLASTIC DRUMS AND WORK ZONE ACCEPTANCE LETTER WZ-45 "CRASHWORTHY WORK ZONE DEVICES" AS OF OCTOBER 1, 2000.

**3. TAPER LENGTHS**

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES SHALL BE PER TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONE FOR CALCULATED TAPER LENGTHS.

EXIT TAPERS SHALL BE 100' PER LANE, MAXIMUM.

**4. TEMPORARY MARKINGS**

WHEN LANE CLOSURES EXCEED 14 CALENDAR DAYS, TEMPORARY MARKINGS (740.06) TAPE, MINIMUM 4'-0" LONG SEGMENTS SHALL BE INSTALLED FOR ALL CENTERLINES, CHANNELS, AND LANE LINES. CONFLICTING MARKINGS SHALL BE COVERED WITH NON-REFLECTIVE TAPE OR REMOVED. ITEM 642 PAINT SHALL BE USED IF AN AREA IS TO BE MILLED AND/OR RESURFACED OR PLACED ON THE INTERMEDIATE ASPHALT COURSE.

**5. GENERAL NOTES AND MODIFICATIONS OF STANDARD CONSTRUCTION DRAWINGS**

THE USE OF ANY MAINTENANCE OF TRAFFIC STANDARD DRAWING SHALL REQUIRE A MAINTENANCE OF TRAFFIC TABLE PROVIDED BY THE DIVISION OF DESIGN AND CONSTRUCTION. MODIFICATIONS TO THE TEMPORARY TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS MAY OCCUR WHEN FIELD CONDITIONS DICTATE THAT THE APPLICATION OF THE STANDARD DRAWING DOES NOT MEET ITS INTENDED PURPOSE. ONLY THE ENGINEER MAY DEVIATE FROM THESE DRAWINGS.

**6. SCD 1500 REFERENCE**

ALL NOTES, TABLES, FIGURES, AND LEGENDS INCLUDED AS PART OF SCD 1500 ARE TO BE APPLIED TO ALL OTHER MAINTENANCE OF TRAFFIC SCD (1501-1599).

TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES †

D: TAPER RATE (SHOULDER) CLOSURE OMUTCD $0.33L = WS^2 / 60$					0.33L = WS			
WIDTH OF SHOULDER	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH
6'	*	*	*	53'	89'	99'	109'	119'
7'	*	*	47'	62'	104'	116'	127'	139'
8'	*	*	54'	70'	119'	132'	145'	158'
9'	*	45'	61'	79'	134'	149'	163'	178'
10'	*	50'	67'	88'	149'	165'	182'	198'
11'	*	54'	74'	97'	163'	182'	200'	218'
12'	*	59'	81'	106'	178'	198'	218'	238'
E: TAPER RATE (MERGE) CLOSURE OMUTCD $L = WS^2 / 60$					L = WS			
WIDTH OF LANE CLOSED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH
10'	104'	150'	204'	267'	450'	500'	550'	600'
11'	115'	165'	225'	293'	495'	550'	605'	660'
12'	125'	180'	245'	320'	540'	600'	660'	720'
13'	135'	195'	265'	347'	585'	650'	715'	780'
F: TAPER RATE (SHIFT) CLOSURE OMUTCD $0.5L = WS^2 / 60$					L = WS			
WIDTH OF LANE SHIFT	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH
10'	52'	75'	102'	133'	450'	500'	550'	600'
11'	57'	83'	112'	147'	495'	550'	605'	660'
12'	62'	90'	123'	160'	540'	600'	660'	720'
13'	68'	98'	133'	173'	585'	650'	715'	780'

NOTES:  
 1. WHEN PAVED SHOULDERS ARE CLOSED IN CONJUNCTION WITH A RIGHT LANE CLOSURE OR SHIFT ADD SHOULDER WIDTH TO LANE WIDTH TO CALCULATE TAPER LENGTH.  
 2. FOR PAVED SHOULDERS UNDER 6' USE 40 TAPER LENGTH.  
 3. L = TAPER LENGTH, W = WIDTH OF OFFSET, S = POSTED SPEED LIMIT OR 85TH PERCENTILE SPEED  
 \* = 40'

† TABLE DERIVED FROM OMUTCD, CURRENT EDITION, PART 6, TABLES 6C-3 AND 6C-4

TABLE 2: ADVANCE WARNING SIGNS †

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
URBAN (LOW SPEED*) $\leq 40$ MPH	100 FT	100 FT	100 FT
URBAN (HIGH SPEED*) $\geq 45$ MPH	350 FT	350 FT	350 FT
RURAL	500 FT	500 FT	500 FT
EXPRESSWAY/FREEWAY	1,000 FT	1,500 FT	2,640 FT

† FROM OMUTCD, CURRENT EDITION, PART 6 TABLE 6C-1

\* SPEED CATEGORY DETERMINED BY THE CITY OF COLUMBUS TO BE LOW SPEED (POSTED SPEED LIMIT LESS THAN OR EQUAL TO 40MPH) OR HIGH SPEED (POSTED SPEED LIMIT GREATER THAN OR EQUAL TO 45MPH)

\*\*THE COLUMN HEADINGS 'A', 'B', 'C', 'D', 'E', AND 'F' ARE THE DIMENSIONS SHOWN IN STANDARD DRAWINGS AND ARE DEFINED AS:

- 'A' = THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN (CLOSEST TO THE TTC ZONE).
- 'B' = THE 'B' DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGN.
- 'C' = DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGN (FURTHEST UPSTREAM FROM THE TTC ZONE).
- 'D' = SHOULDER TAPER LENGTH.
- 'E' = MERGE TAPER LENGTH.
- 'F' = SHIFT TAPER LENGTH.

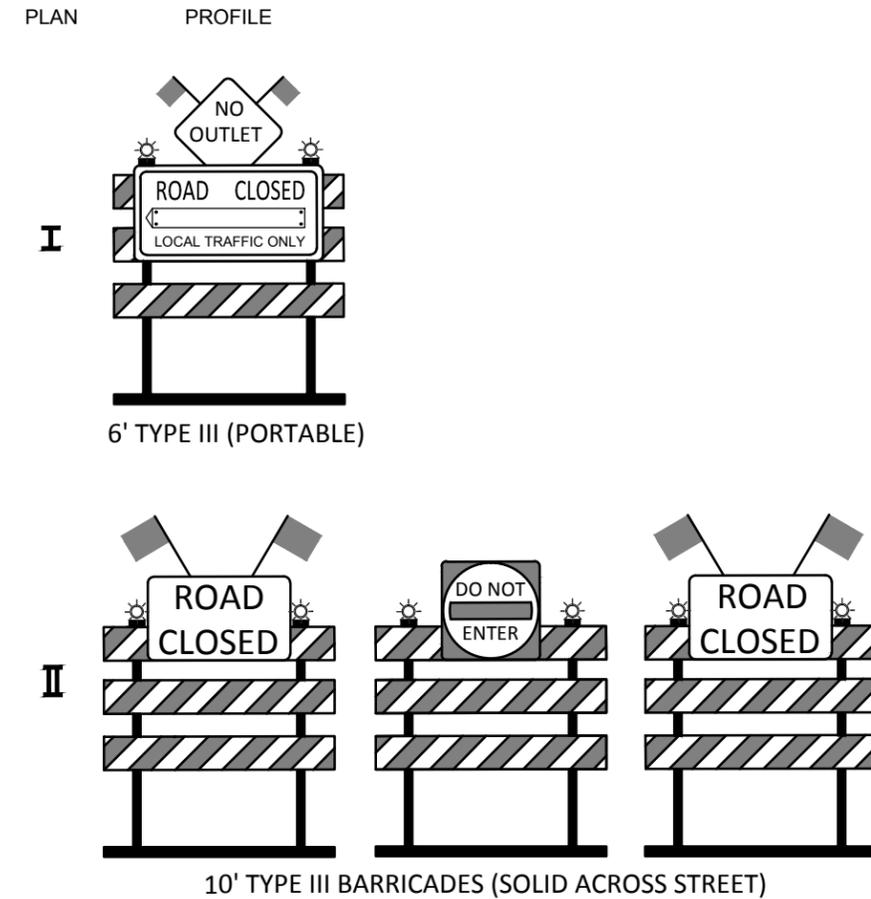
**NOTES AND TABLES**

**MAINTENANCE OF TRAFFIC  
GENERAL NOTES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1500</b>
 CITY ENGINEER	9/15/2015 SHT 1 OF 3

## SYMBOL LEGEND

<p>● DRUM</p> <p>⊙ 42" REFLECTIVE CHANNELIZING DEVICE</p> <p>● DRUM WITH TEMPORARY "EMERGENCY NO PARKING" SIGN ATTACHED</p> <p>● DRUM WITH POLYPROPYLENE SIGN MOUNTED ON TOP (SEE SCD 1500 SHEET 1 NOTE 2)</p> <p> WORK AREA</p> <p> PARKING METER</p> <p> FLAGGER OR LAW ENFORCEMENT OFFICER</p> <p> HAND SIGNALING DEVICE (STOP/SLOW PADDLE)</p> <p> TEMPORARY PAVEMENT MARKING</p> <p> EXISTING PAVEMENT MARKINGS</p> <p> EXISTING PAVEMENT MARKINGS REMOVED OR COVERED</p>	<p>PLAN PROFILE</p> <p>⊥  U-CHANNEL DRIVE POST</p> <p>⋈  TEMPORARY POST OR STAND</p> <p> FLASHING ARROW PANEL F.A.P.</p> <p>⊥  EXISTING SIGNAGE</p> <p>⊥  EXISTING/TEMPORARY SIGNAGE TO BE REMOVED OR COVERED</p> <p> EXISTING POLE MOUNTED STOP AND STREET NAME SIGNAGE</p> <p></p>	
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### ABBREVIATIONS

B/O,	BLK/ORANGE	BLACK TEXT ON ORANGE BACKGROUND
FAP		FLASHING ARROW PANEL
LEO		LAW ENFORCEMENT OFFICER
SCD		STANDARD CONSTRUCTION DRAWING
TTC		TEMPORARY TRAFFIC CONTROL

### SYMBOL LEGEND

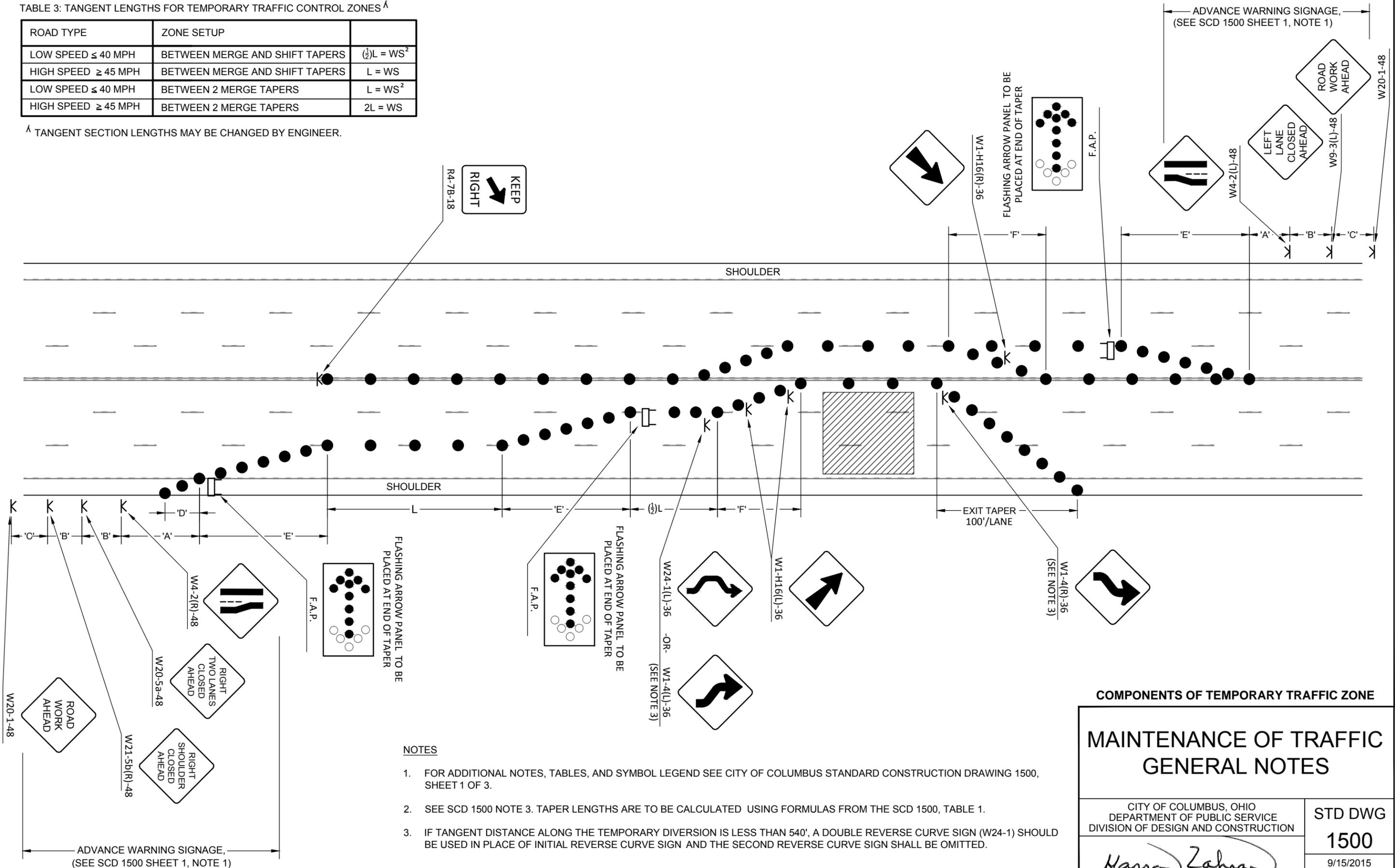
## MAINTENANCE OF TRAFFIC GENERAL NOTES

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG</b> <b>1500</b>
CITY ENGINEER	9/15/2015 SHT 2 OF 3

TABLE 3: TANGENT LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES <sup>^</sup>

ROAD TYPE	ZONE SETUP	
LOW SPEED ≤ 40 MPH	BETWEEN MERGE AND SHIFT TAPERS	$(\frac{1}{2})L = WS^2$
HIGH SPEED ≥ 45 MPH	BETWEEN MERGE AND SHIFT TAPERS	$L = WS$
LOW SPEED ≤ 40 MPH	BETWEEN 2 MERGE TAPERS	$L = WS^2$
HIGH SPEED ≥ 45 MPH	BETWEEN 2 MERGE TAPERS	$2L = WS$

<sup>^</sup> TANGENT SECTION LENGTHS MAY BE CHANGED BY ENGINEER.

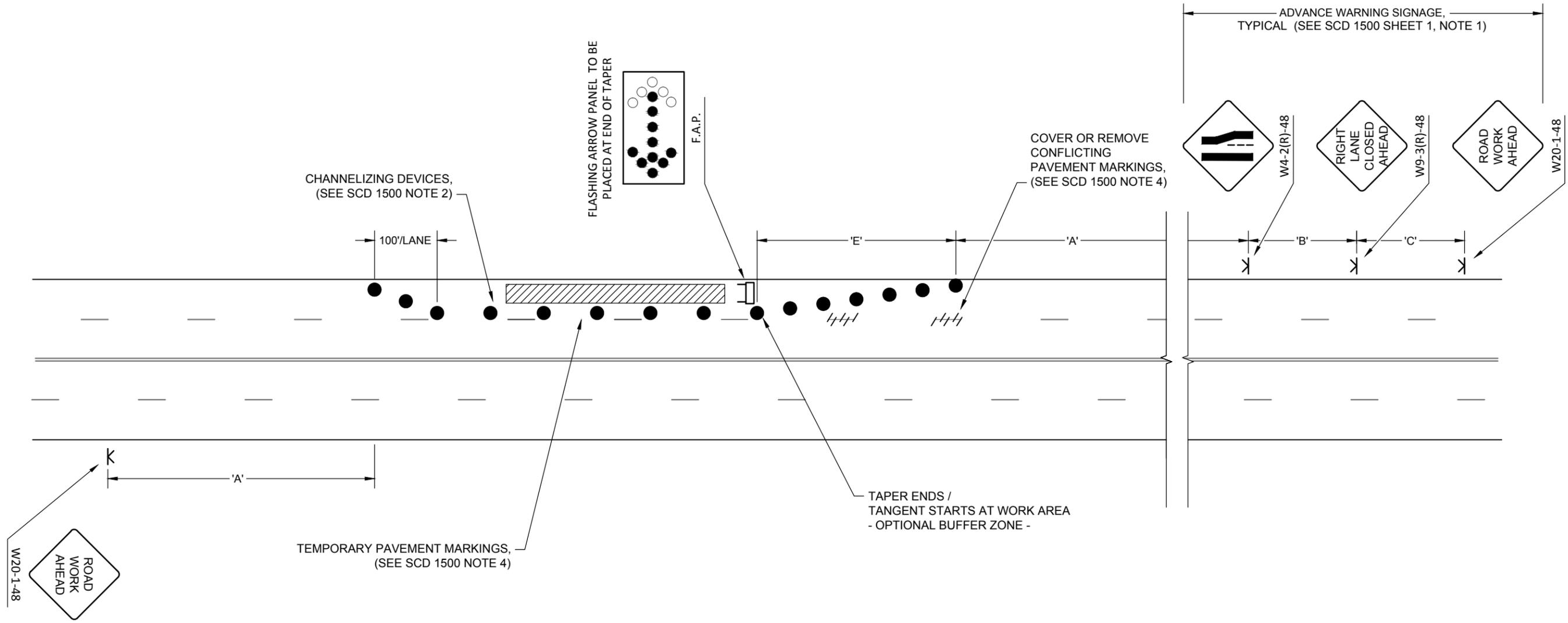


**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500, SHEET 1 OF 3.
2. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.
3. IF TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 540', A DOUBLE REVERSE CURVE SIGN (W24-1) SHOULD BE USED IN PLACE OF INITIAL REVERSE CURVE SIGN AND THE SECOND REVERSE CURVE SIGN SHALL BE OMITTED.

**COMPONENTS OF TEMPORARY TRAFFIC ZONE**

<b>MAINTENANCE OF TRAFFIC GENERAL NOTES</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG 1500</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 3 OF 3



**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

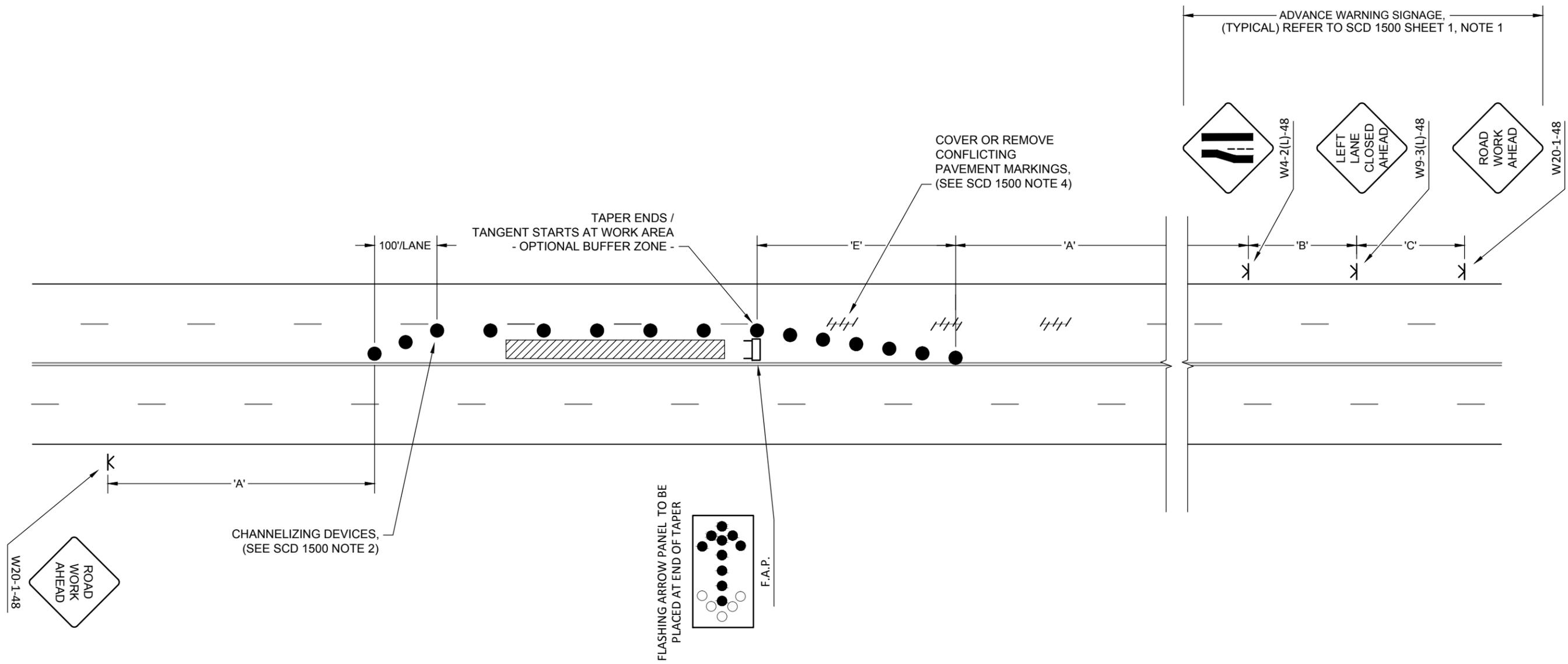
**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500.

**RIGHT LANE**

**LANE CLOSURES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1510</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
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**SCD 1500 NOTES**

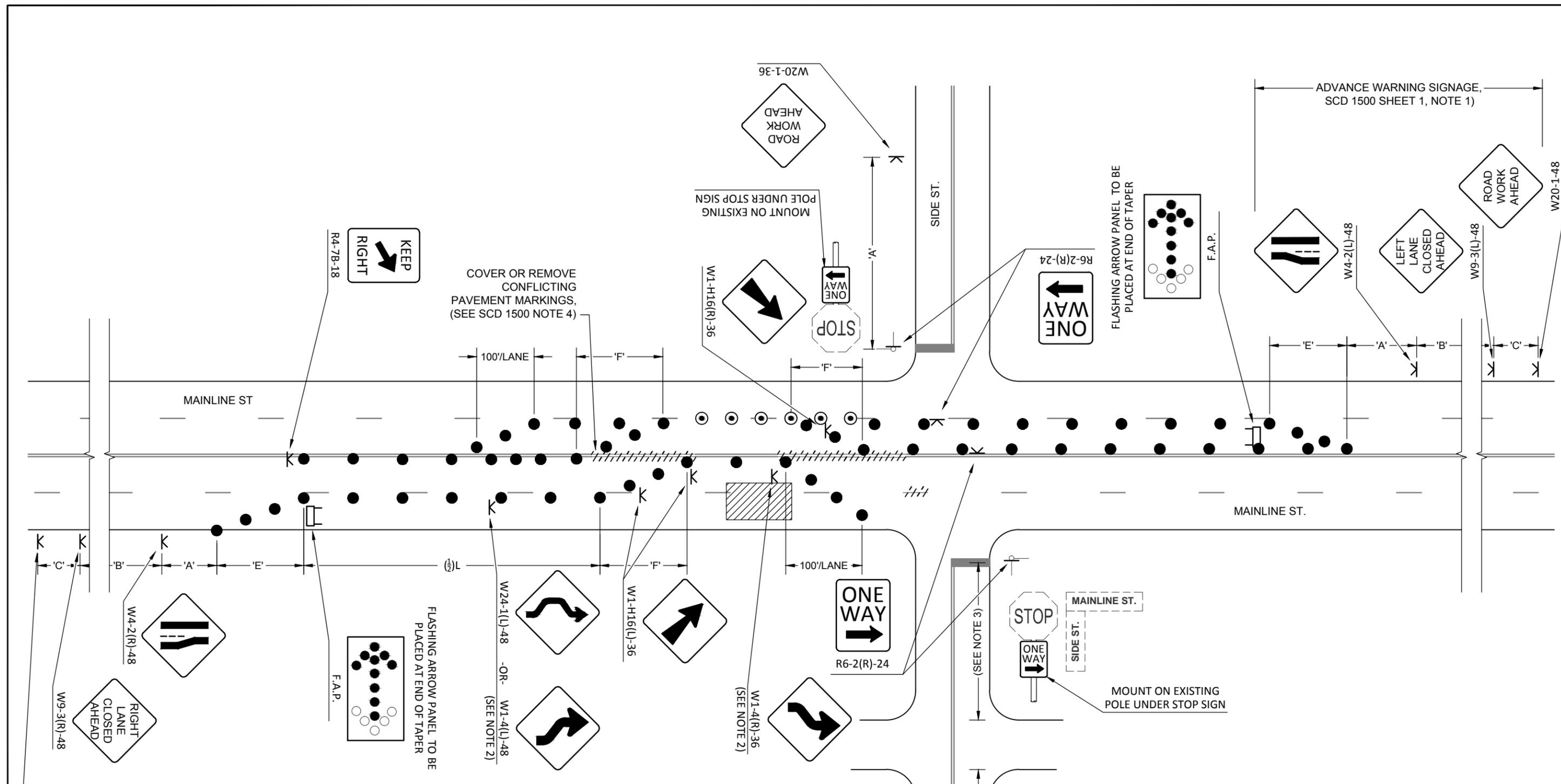
1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

**LEFT LANE**

**LANE CLOSURES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1510</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 2 OF 5





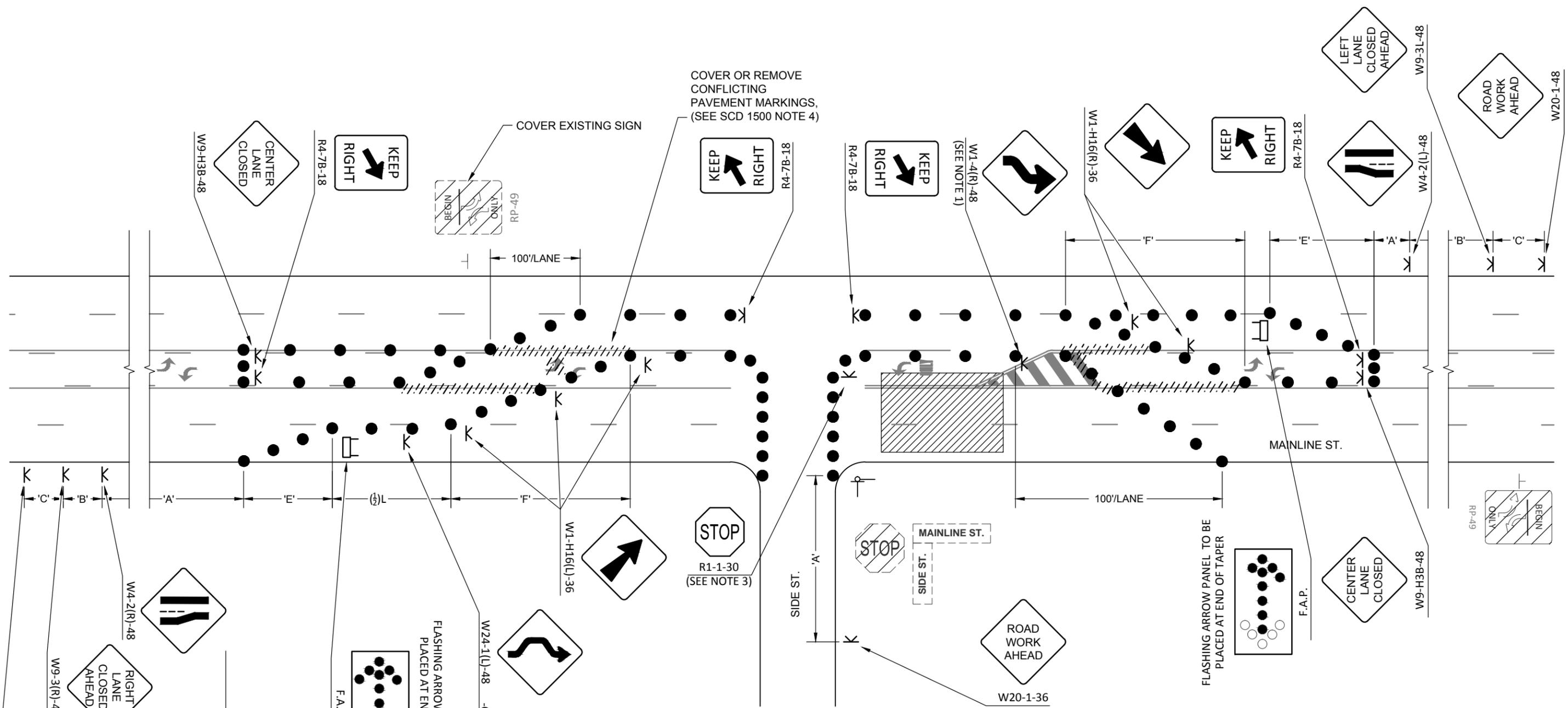
**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

**NOTES**

1. FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.
2. IF TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 540', A DOUBLE REVERSE CURVE SIGN (W24-1) SHOULD BE USED IN PLACE OF INITIAL REVERSE CURVE SIGN AND THE SECOND REVERSE CURVE SIGN SHALL BE OMITTED.
3. PLACE ADVANCE WARNING SIGN A MAXIMUM OF 200' FROM POSTED STOP OR ADJUST TO NEXT STREET IF LESS THAN 100'.

<b>4-LANE SECTION WITH SHIFT</b>	
<b>LANE CLOSURES</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG 1510</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
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**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

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2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.
3. PLACE TEMPORARY STOP SIGN ON STAND AND MOVE FORWARD.

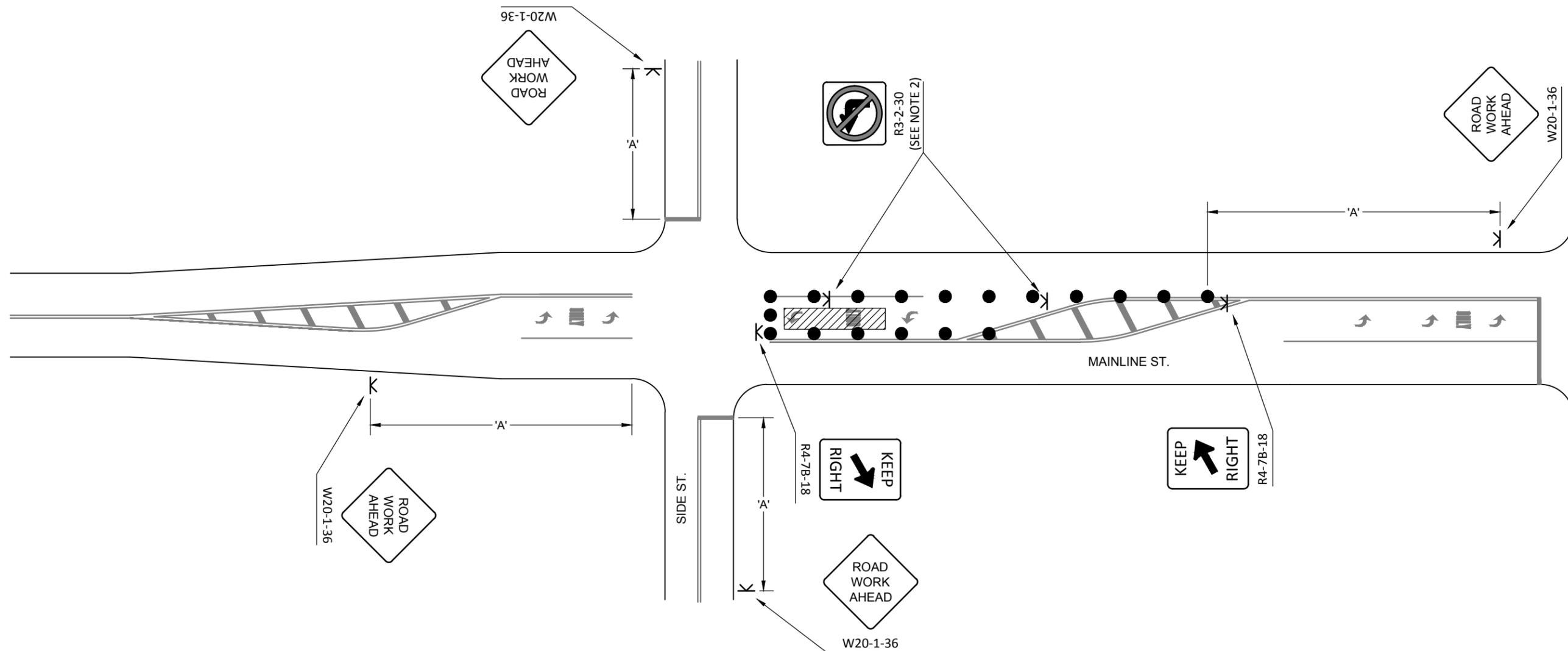
**5-LANE SECTION WITH SHIFT**

**LANE CLOSURES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1510</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 5 OF 5







**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500.
2. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER.
3. FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.
4. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOPLINE OR TRAFFIC CONTROL.

**LEFT TURN LANE**

**LANE CLOSURES INTERSECTIONS**

CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

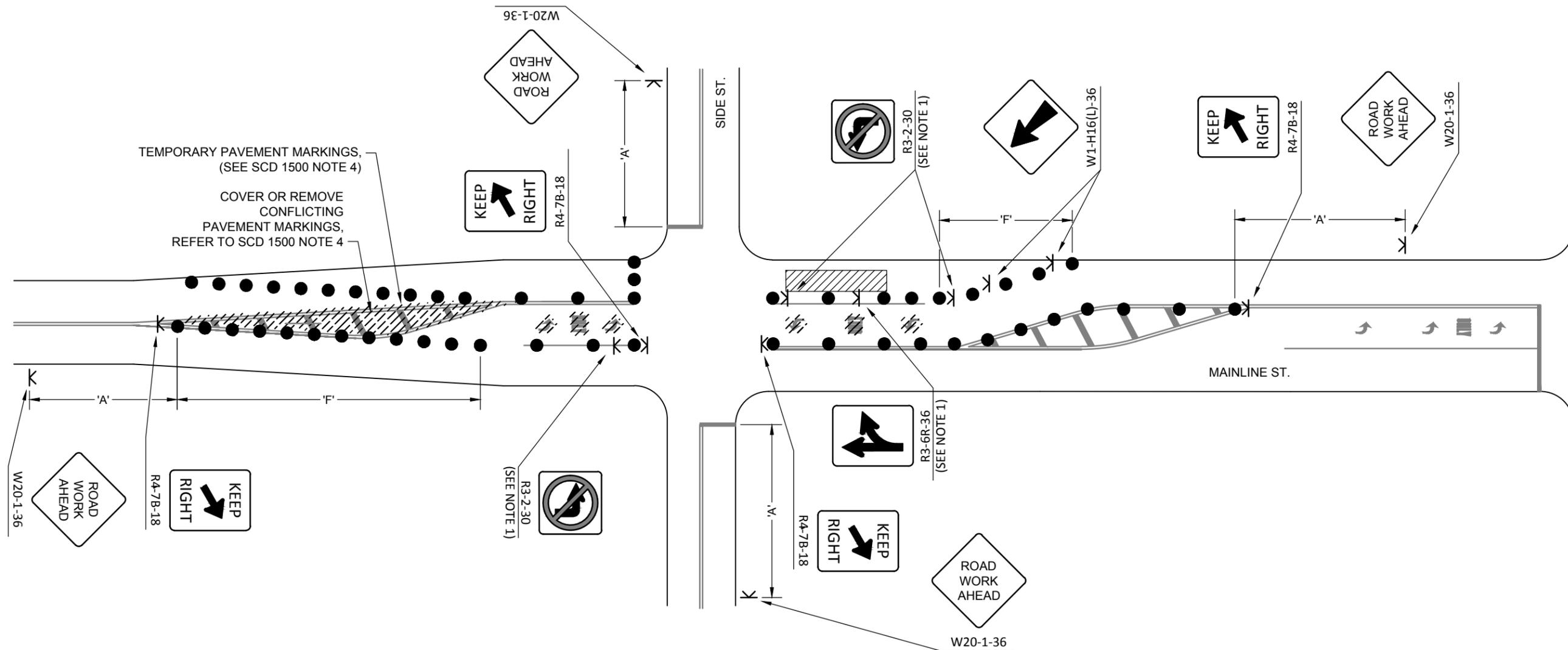
STD DWG

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*Hassan Zahran*  
CITY ENGINEER

9/15/2015

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**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.

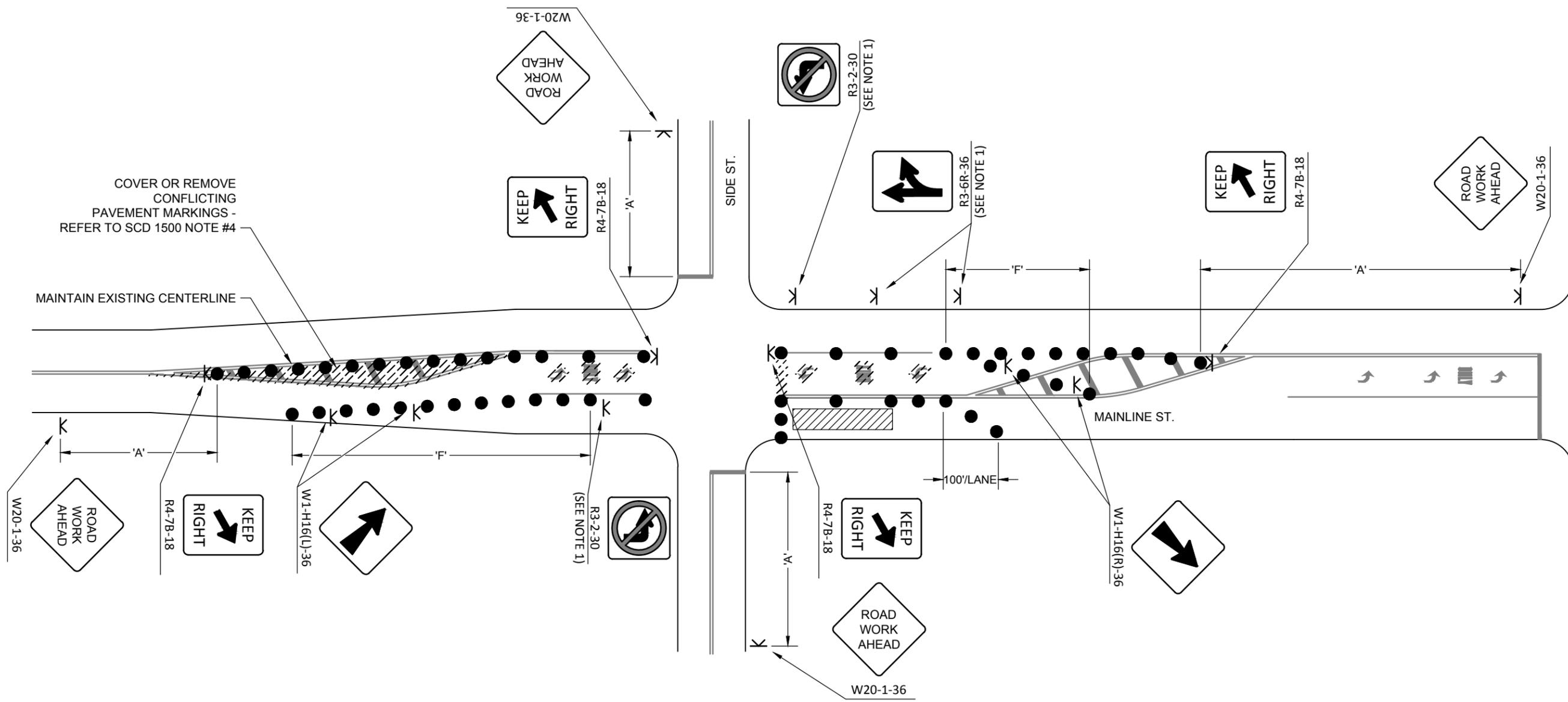
**NOTES**

1. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER.
2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOPLINE OR TRAFFIC CONTROL.

**3-LANE SECTION, NEAR SIDE**

**LANE CLOSURES INTERSECTIONS**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1520</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
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**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.

**NOTES**

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**3-LANE SECTION, FARSIDE**

**LANE CLOSURES INTERSECTIONS**

CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

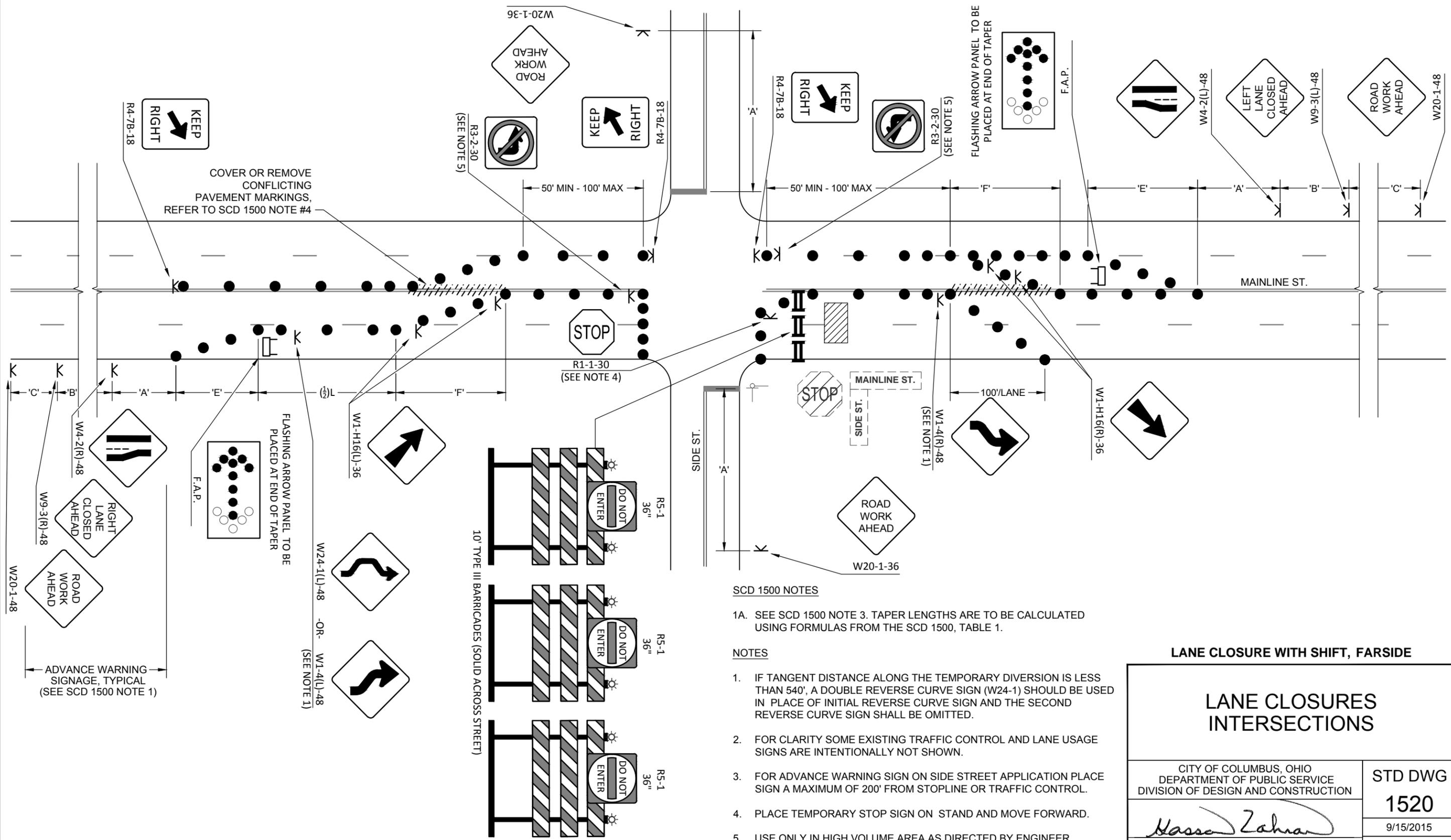
1520

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CITY ENGINEER

9/15/2015

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COVER OR REMOVE  
CONFLICTING  
PAVEMENT MARKINGS,  
REFER TO SCD 1500 NOTE #4

FLASHING ARROW PANEL TO BE  
PLACED AT END OF TAPER

FLASHING ARROW PANEL TO BE  
PLACED AT END OF TAPER

10' TYPE III BARRICADES (SOLID ACROSS STREET)

**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.

**NOTES**

1. IF TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 540', A DOUBLE REVERSE CURVE SIGN (W24-1) SHOULD BE USED IN PLACE OF INITIAL REVERSE CURVE SIGN AND THE SECOND REVERSE CURVE SIGN SHALL BE OMITTED.
2. FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.
3. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOPLINE OR TRAFFIC CONTROL.
4. PLACE TEMPORARY STOP SIGN ON STAND AND MOVE FORWARD.
5. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER.

**LANE CLOSURE WITH SHIFT, FARSIDE**

**LANE CLOSURES INTERSECTIONS**

CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

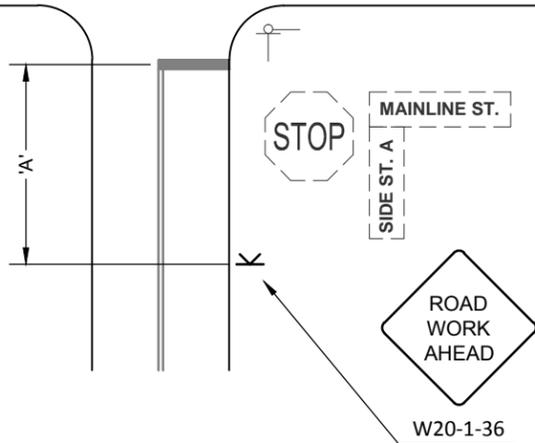
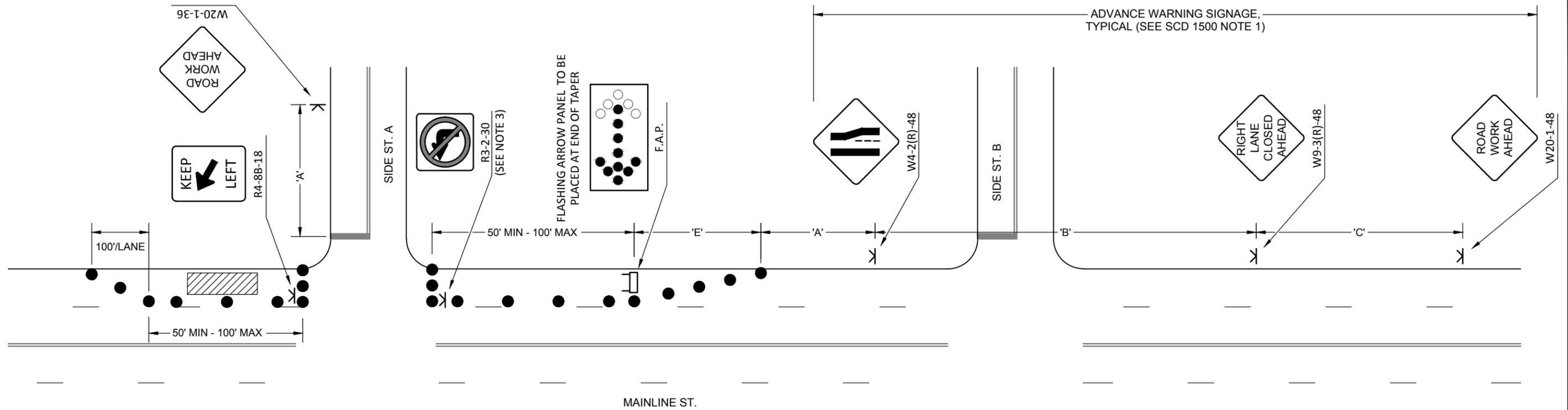
STD DWG

1520

9/15/2015

*Hassan Zahran*  
CITY ENGINEER

SHT 5 OF 7



**SCD 1500 NOTES**

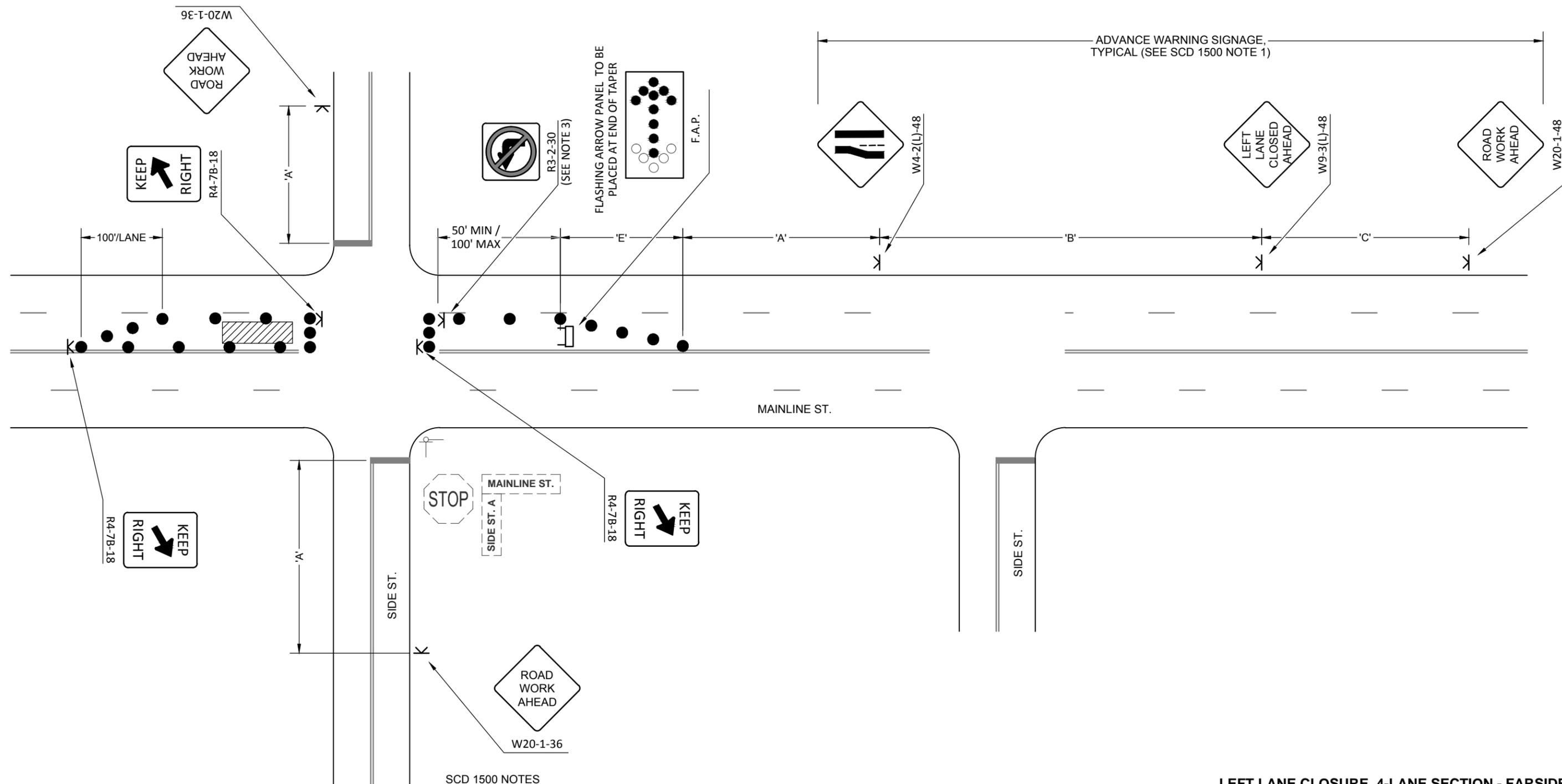
1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.

**NOTES**

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2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.
3. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER.

**RIGHT LANE CLOSURE, 4-LANE SECTION - FARSIDE**

<b>LANE CLOSURES INTERSECTIONS</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG</b> <b>1520</b>
 CITY ENGINEER	9/15/2015 SHT 6 OF 7



**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1.

**NOTES**

- FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.
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- USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER.

**LEFT LANE CLOSURE, 4-LANE SECTION - FARSIDE**

**LANE CLOSURES INTERSECTIONS**

CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

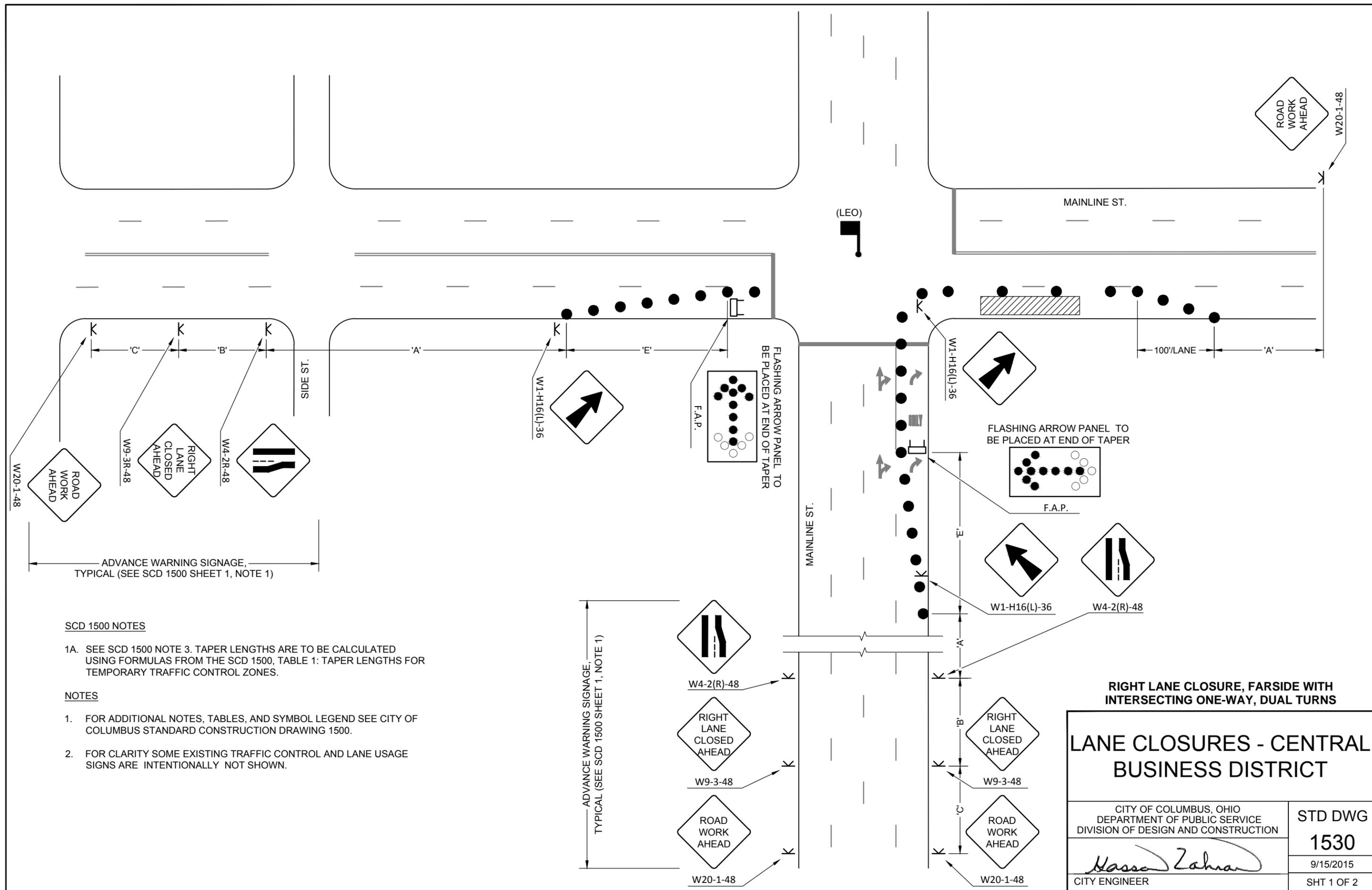
STD DWG

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9/15/2015

SHT 7 OF 7



**SCD 1500 NOTES**

1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

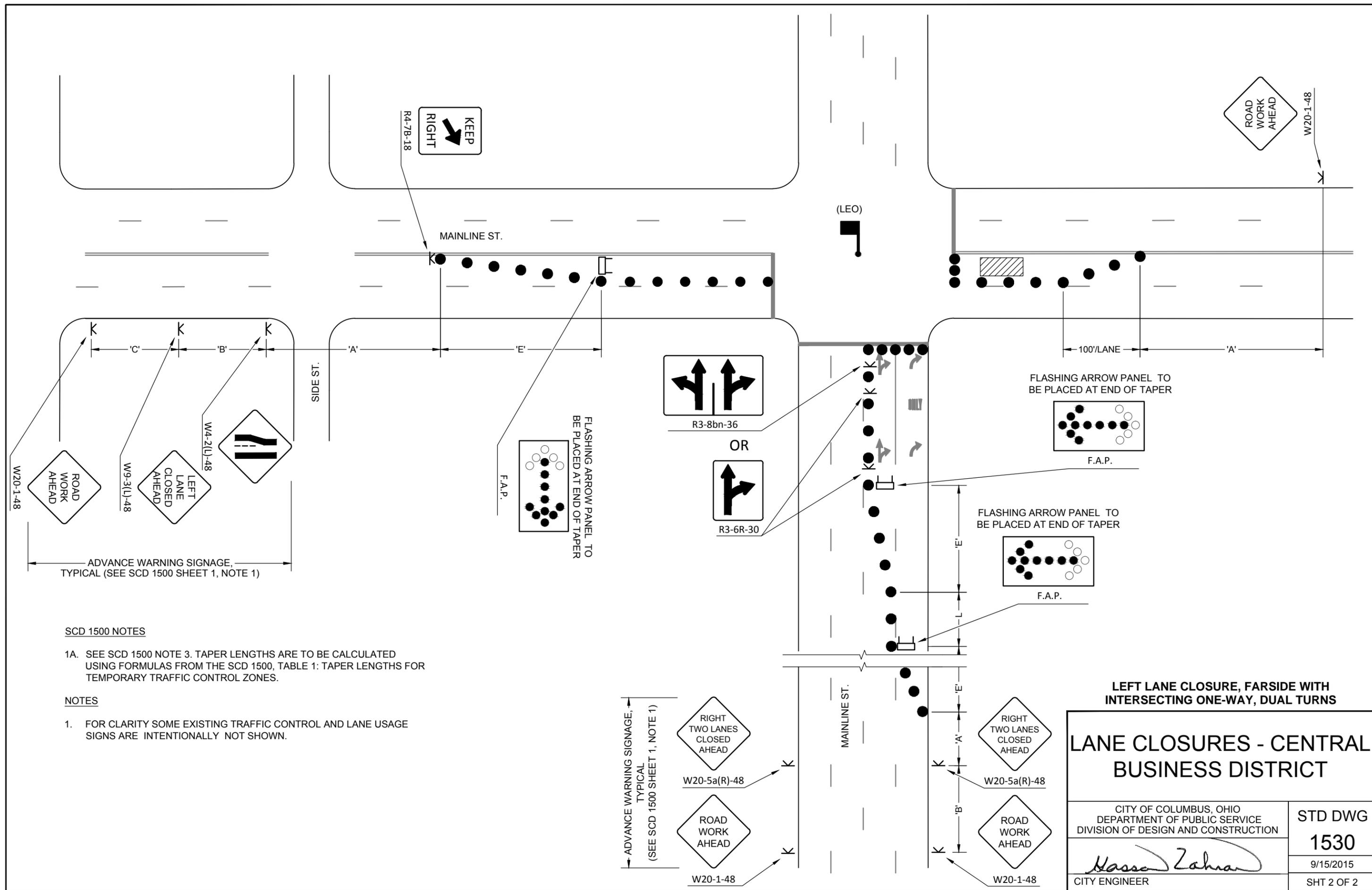
**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500.
2. FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.

**RIGHT LANE CLOSURE, FARSIDE WITH INTERSECTING ONE-WAY, DUAL TURNS**

**LANE CLOSURES - CENTRAL BUSINESS DISTRICT**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1530</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 1 OF 2



**SCD 1500 NOTES**

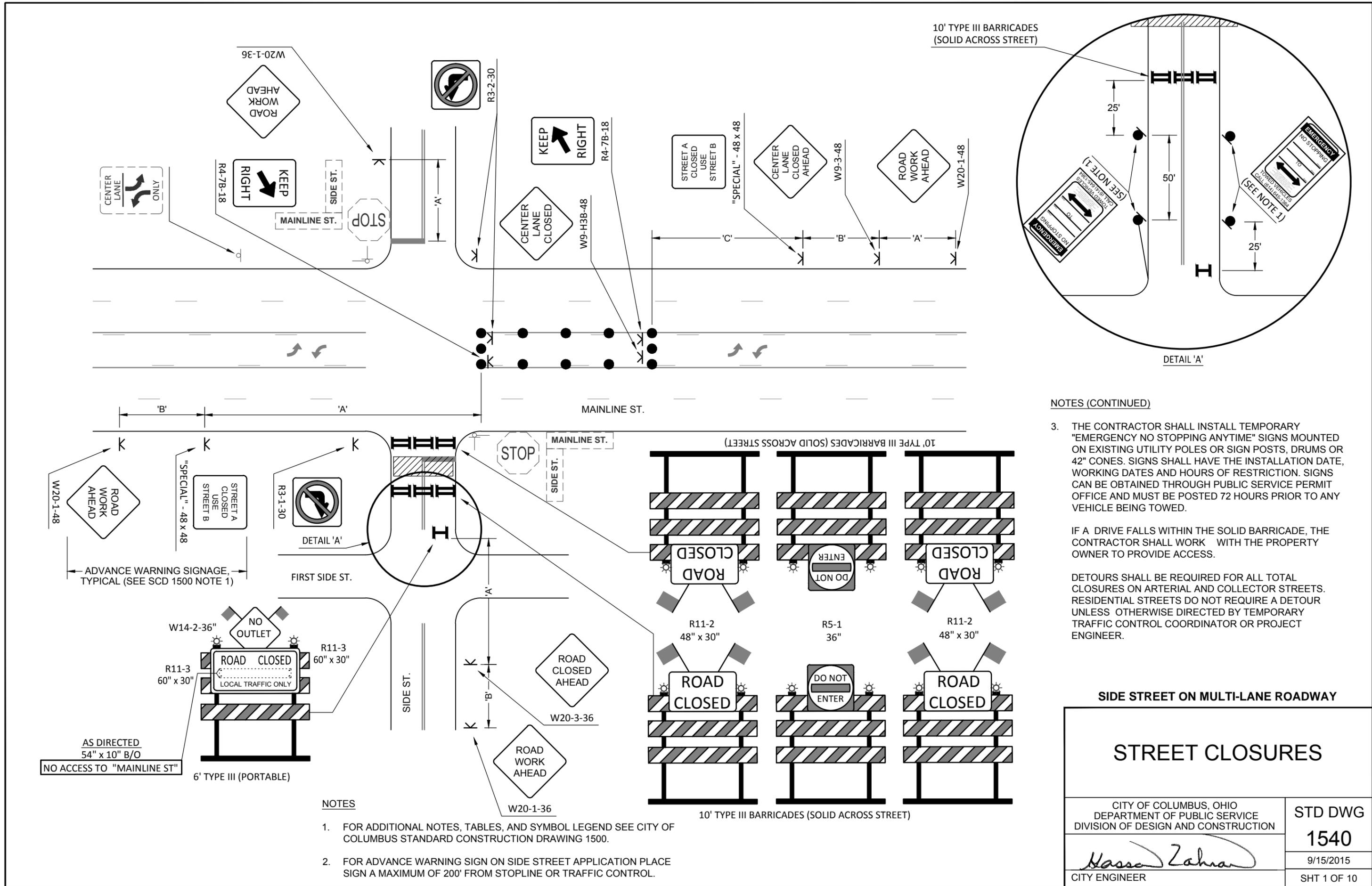
1A. SEE SCD 1500 NOTE 3. TAPER LENGTHS ARE TO BE CALCULATED USING FORMULAS FROM THE SCD 1500, TABLE 1: TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES.

**NOTES**

1. FOR CLARITY SOME EXISTING TRAFFIC CONTROL AND LANE USAGE SIGNS ARE INTENTIONALLY NOT SHOWN.

**LEFT LANE CLOSURE, FAR SIDE WITH INTERSECTING ONE-WAY, DUAL TURNS**

<b>LANE CLOSURES - CENTRAL BUSINESS DISTRICT</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG</b> <b>1530</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 2 OF 2



**NOTES (CONTINUED)**

3. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.

IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.

DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED BY TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER.

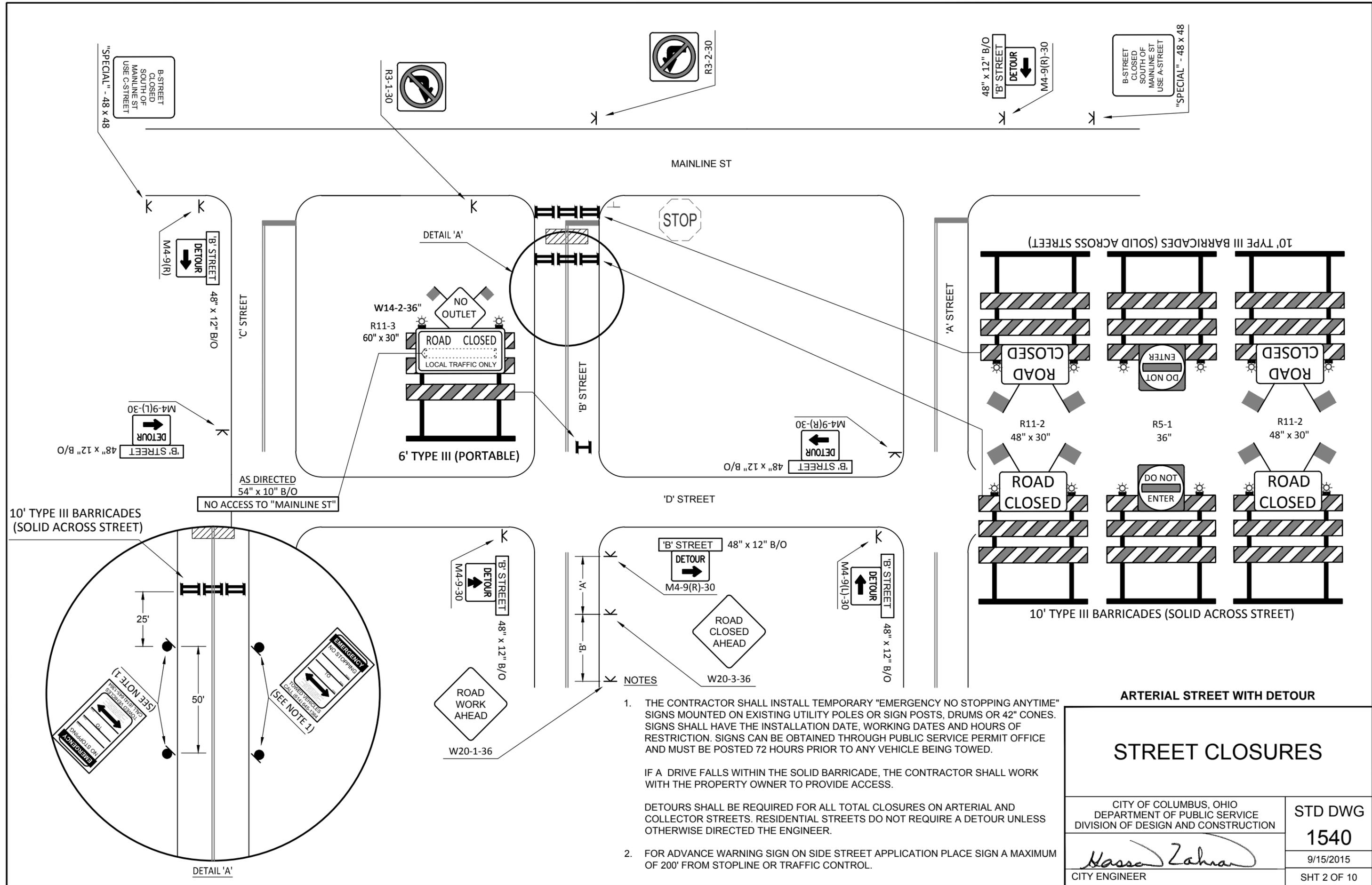
**SIDE STREET ON MULTI-LANE ROADWAY**

**STREET CLOSURES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 1 OF 10

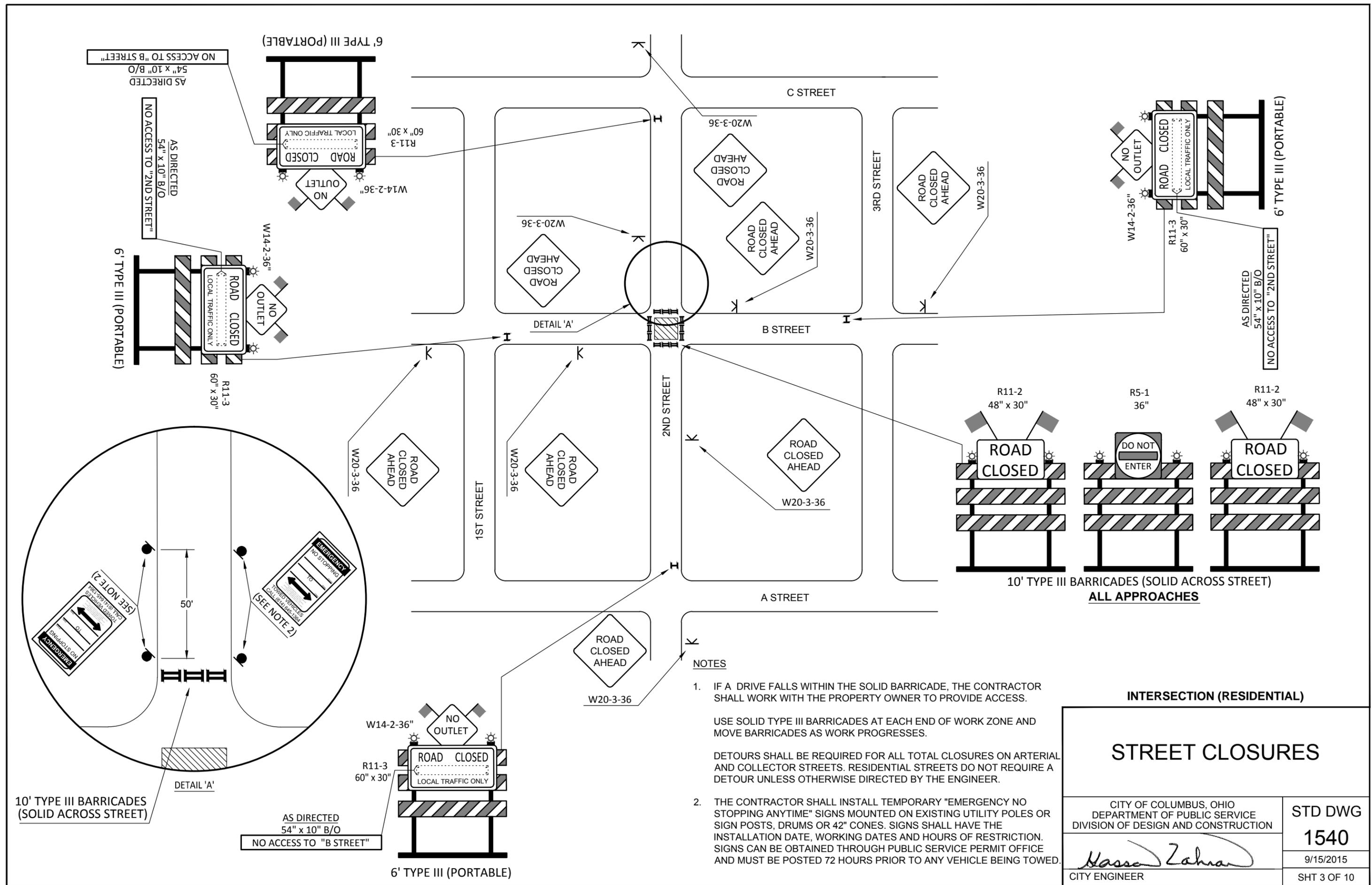
**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500.
2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOPLINE OR TRAFFIC CONTROL.



1. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.
- IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.
- DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED THE ENGINEER.
2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOPLINE OR TRAFFIC CONTROL.

<b>ARTERIAL STREET WITH DETOUR</b>	
<b>STREET CLOSURES</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 2 OF 10



10' TYPE III BARRICADES (SOLID ACROSS STREET)

DETAIL 'A'

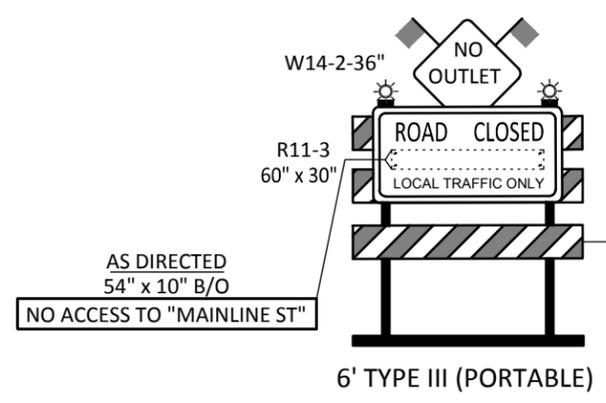
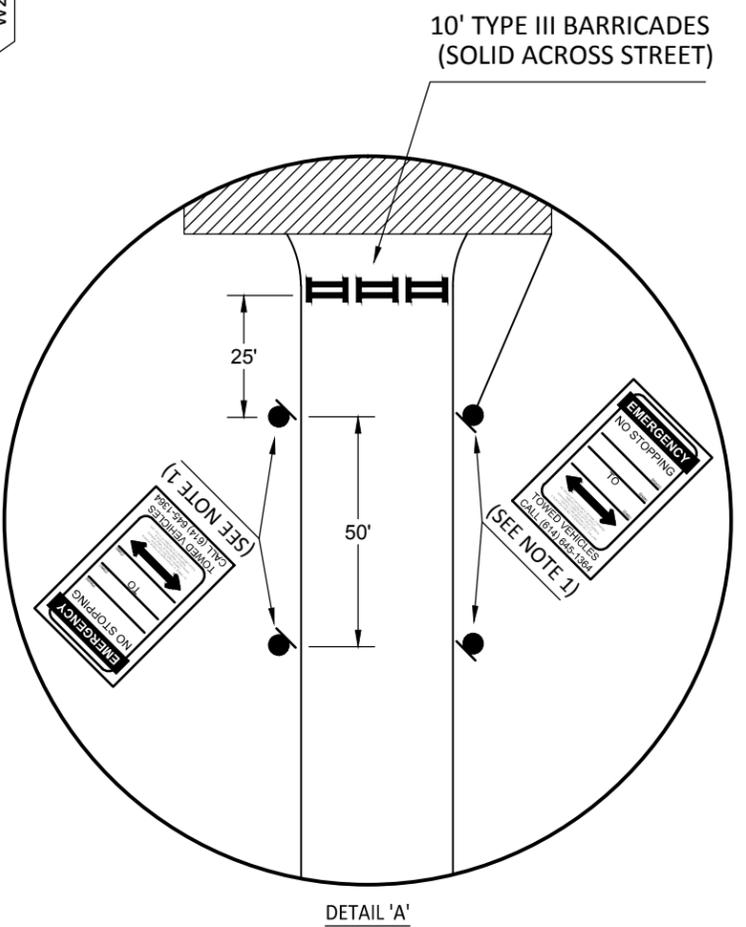
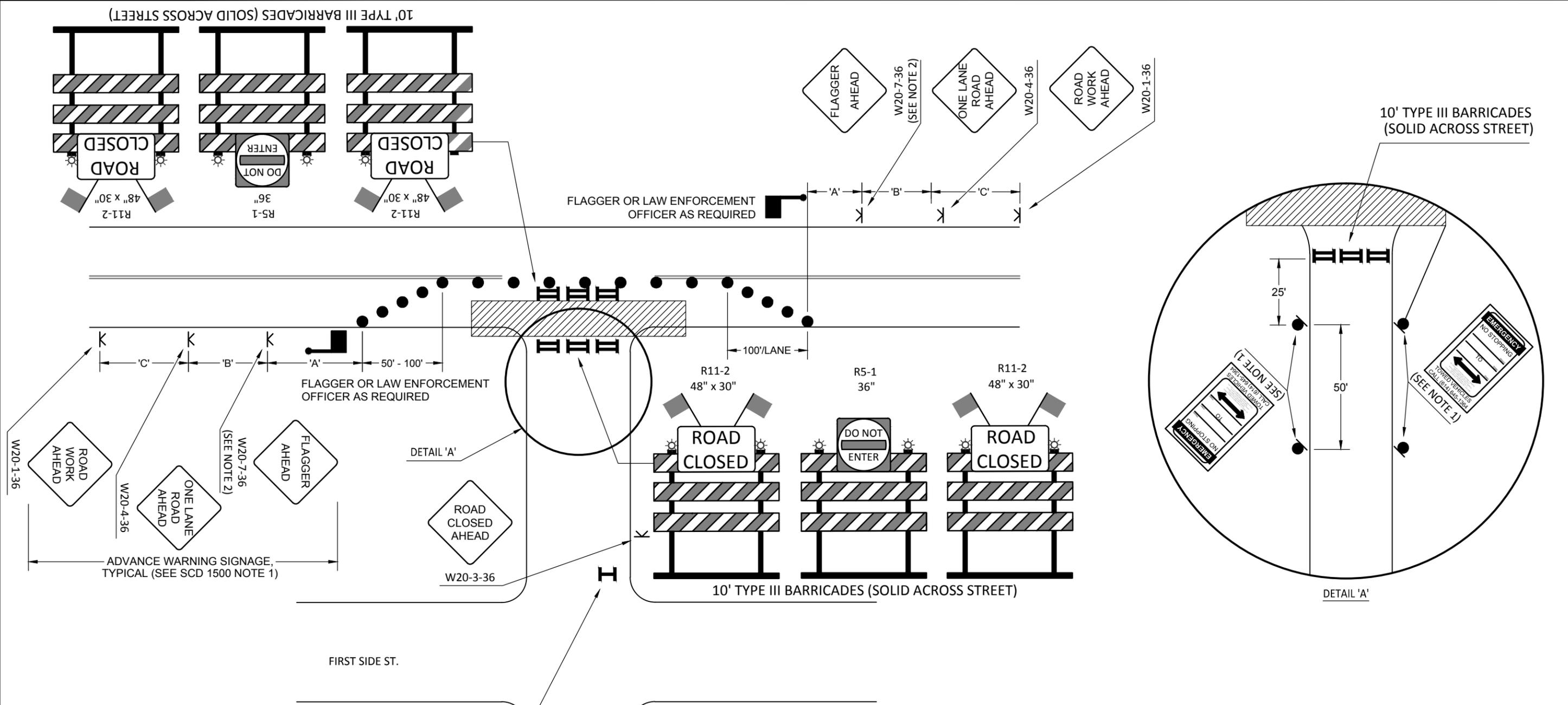
AS DIRECTED  
54" x 10" B/O  
NO ACCESS TO "B STREET"

6' TYPE III (PORTABLE)

**NOTES**

- IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.  
  
USE SOLID TYPE III BARRICADES AT EACH END OF WORK ZONE AND MOVE BARRICADES AS WORK PROGRESSES.  
  
DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.

<b>INTERSECTION (RESIDENTIAL)</b>	
<b>STREET CLOSURES</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 3 OF 10

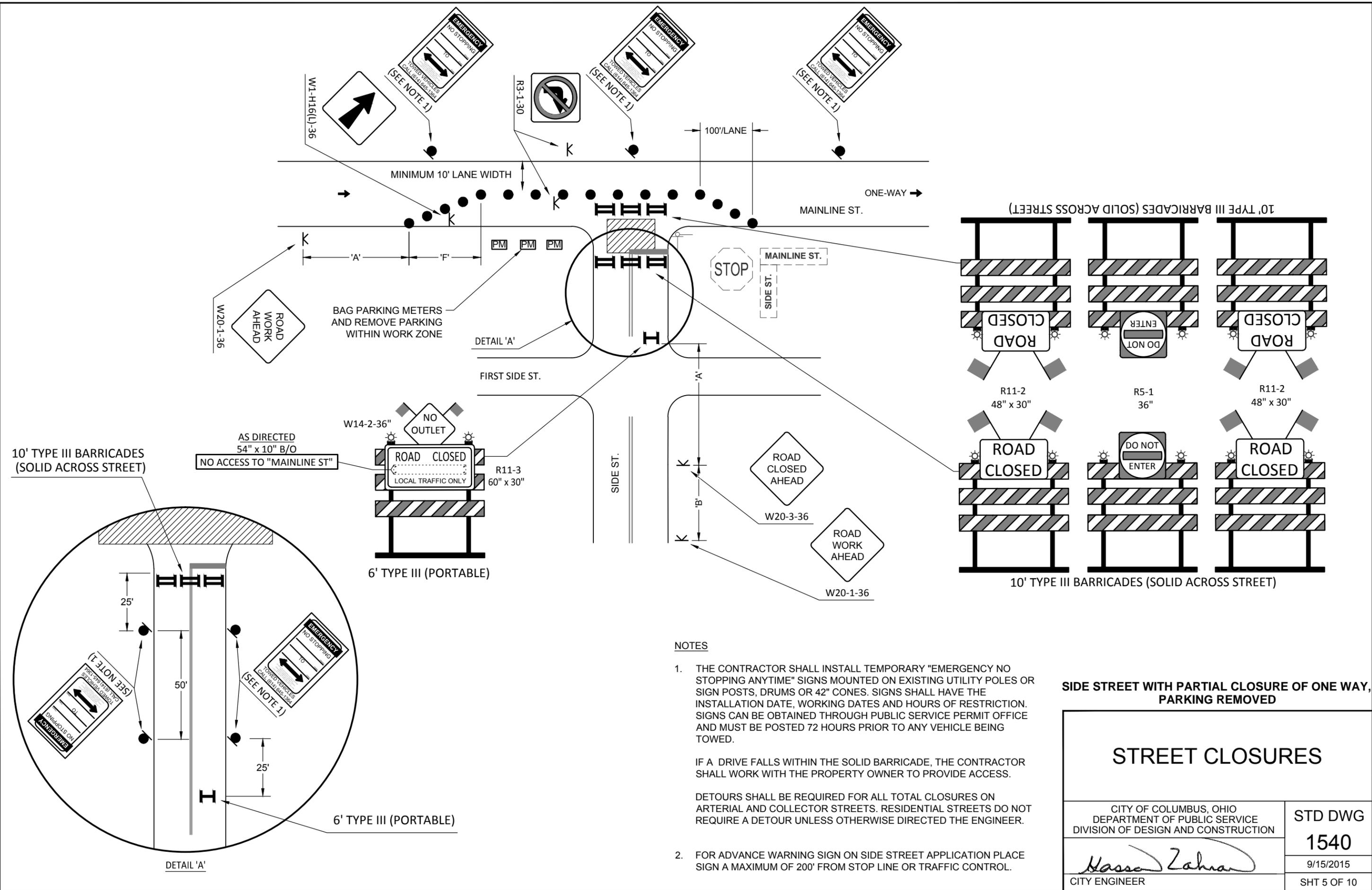


- NOTES**
1. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.
  - IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.
  - DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED THE ENGINEER.
  2. NO SYMBOLS, TEXT ONLY.

**SIDE STREET WITH FLAGGER**

**STREET CLOSURES**

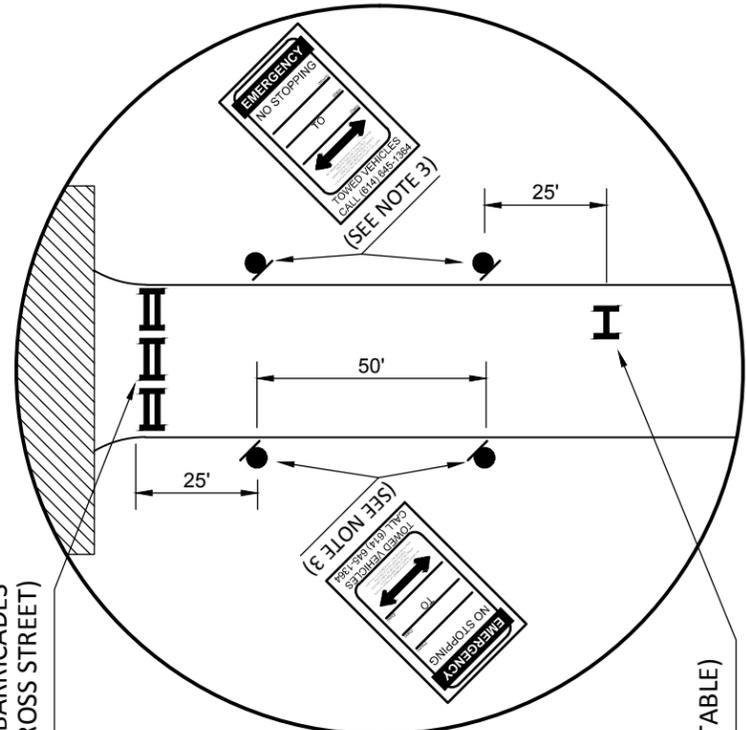
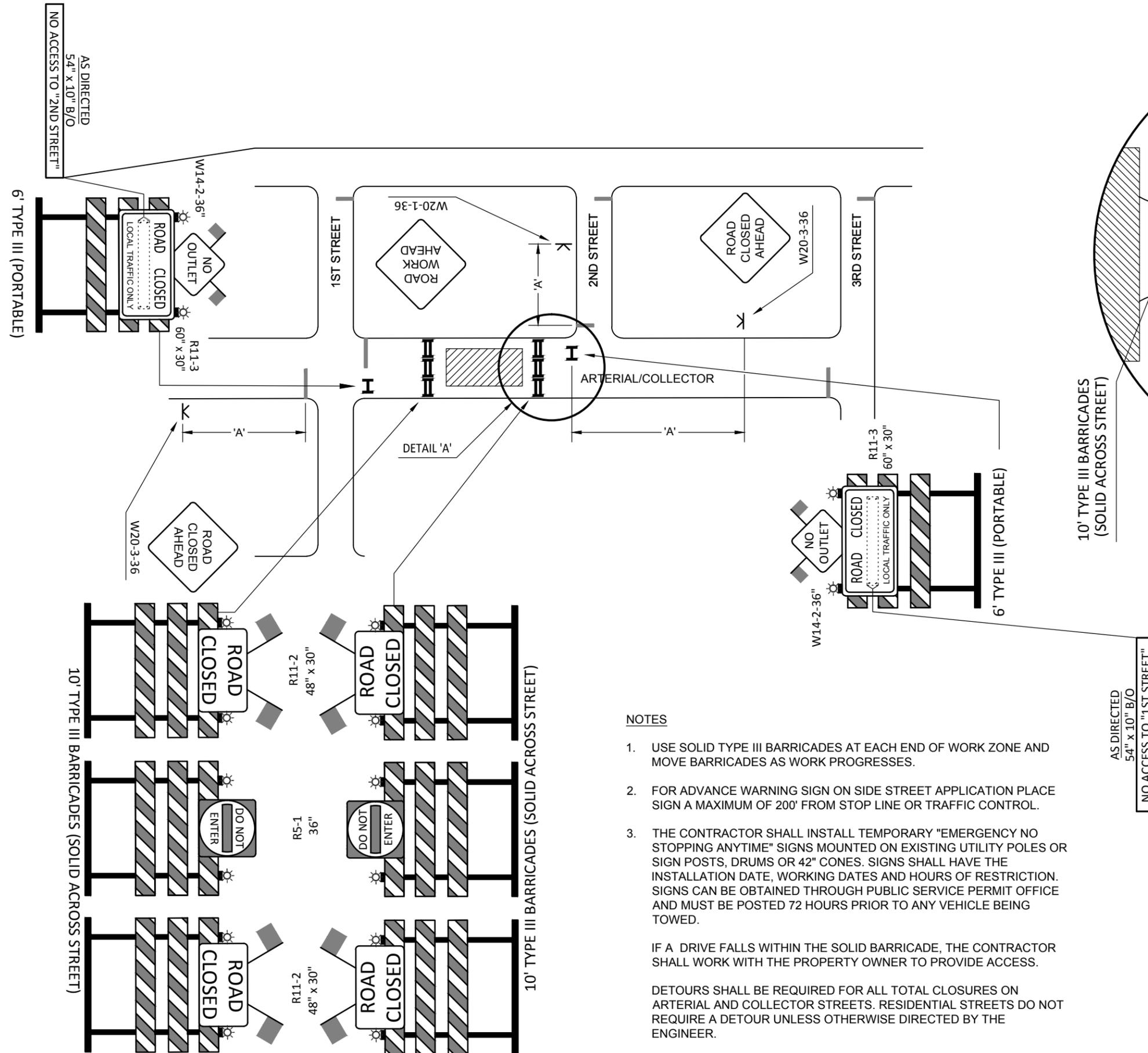
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 4 OF 10



**SIDE STREET WITH PARTIAL CLOSURE OF ONE WAY, PARKING REMOVED**

<h1>STREET CLOSURES</h1>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 5 OF 10





**NOTES**

1. USE SOLID TYPE III BARRICADES AT EACH END OF WORK ZONE AND MOVE BARRICADES AS WORK PROGRESSES.
2. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.

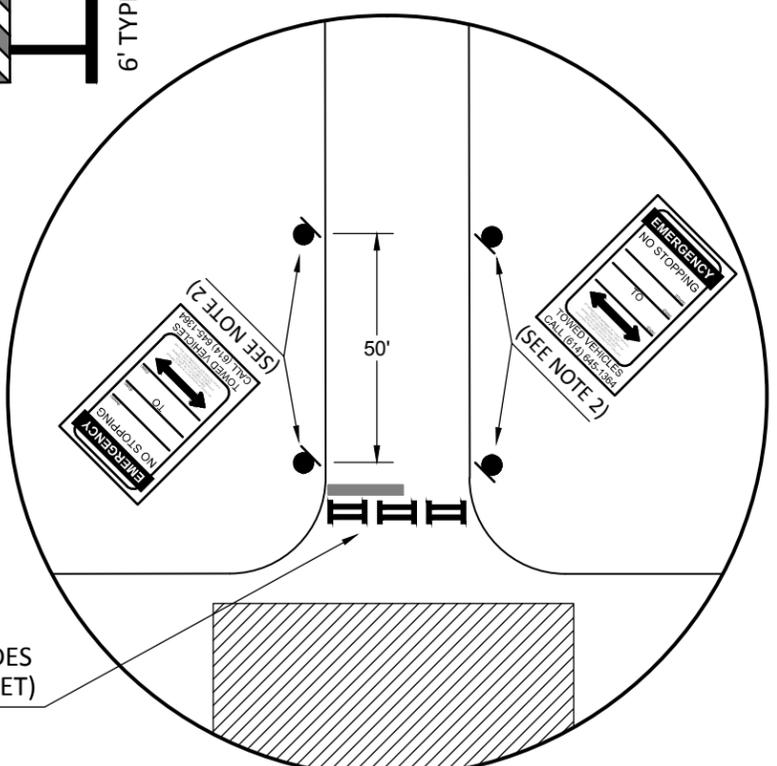
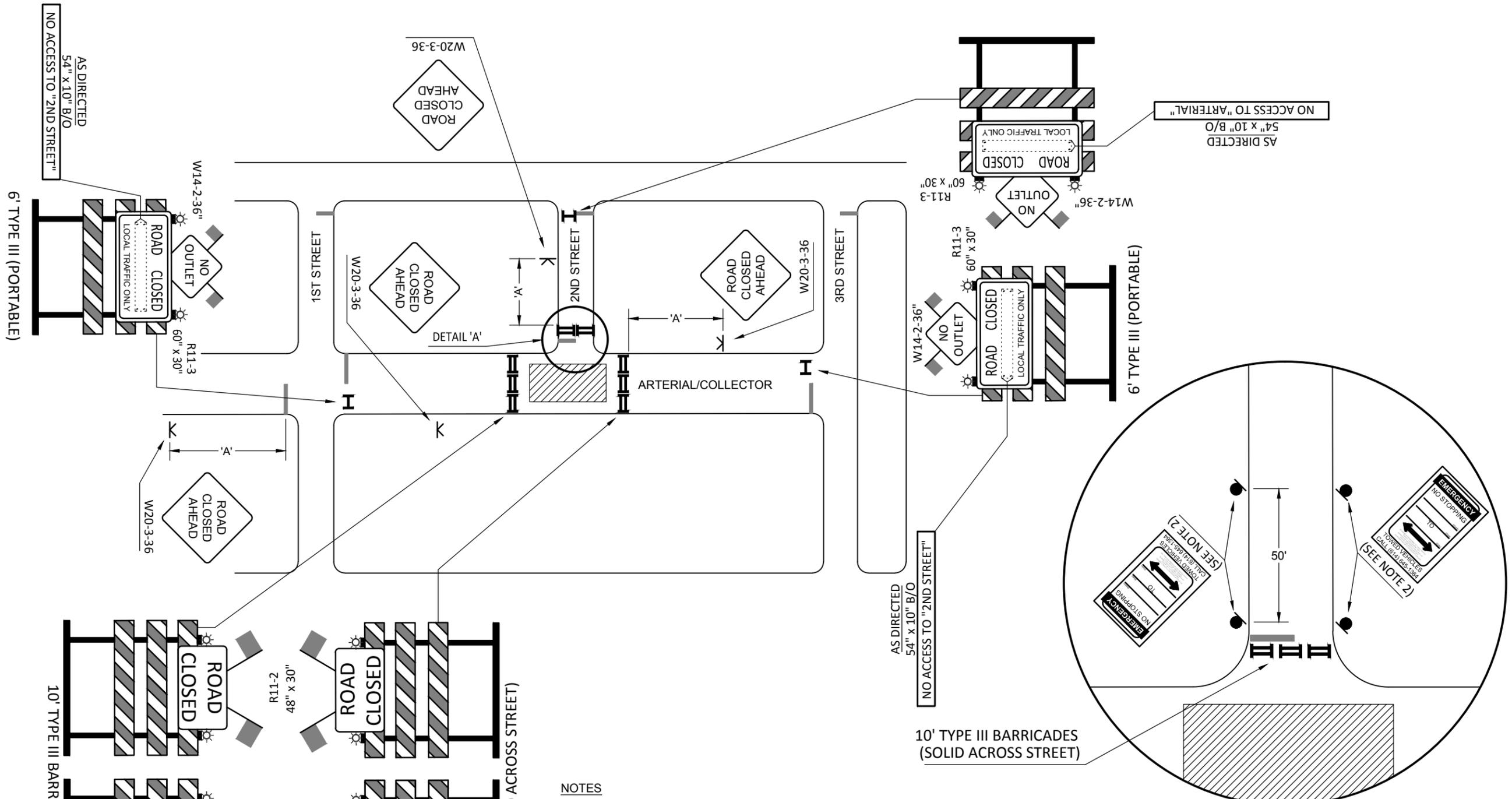
IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.

DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**MOVING CLOSURE, MID-BLOCK**

## STREET CLOSURES

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	<b>STD DWG</b> <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 7 OF 10



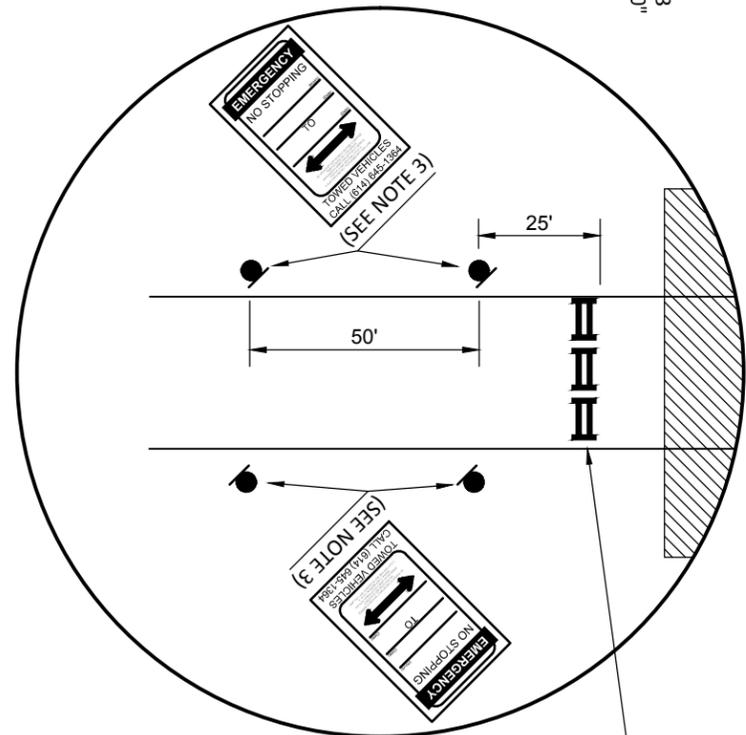
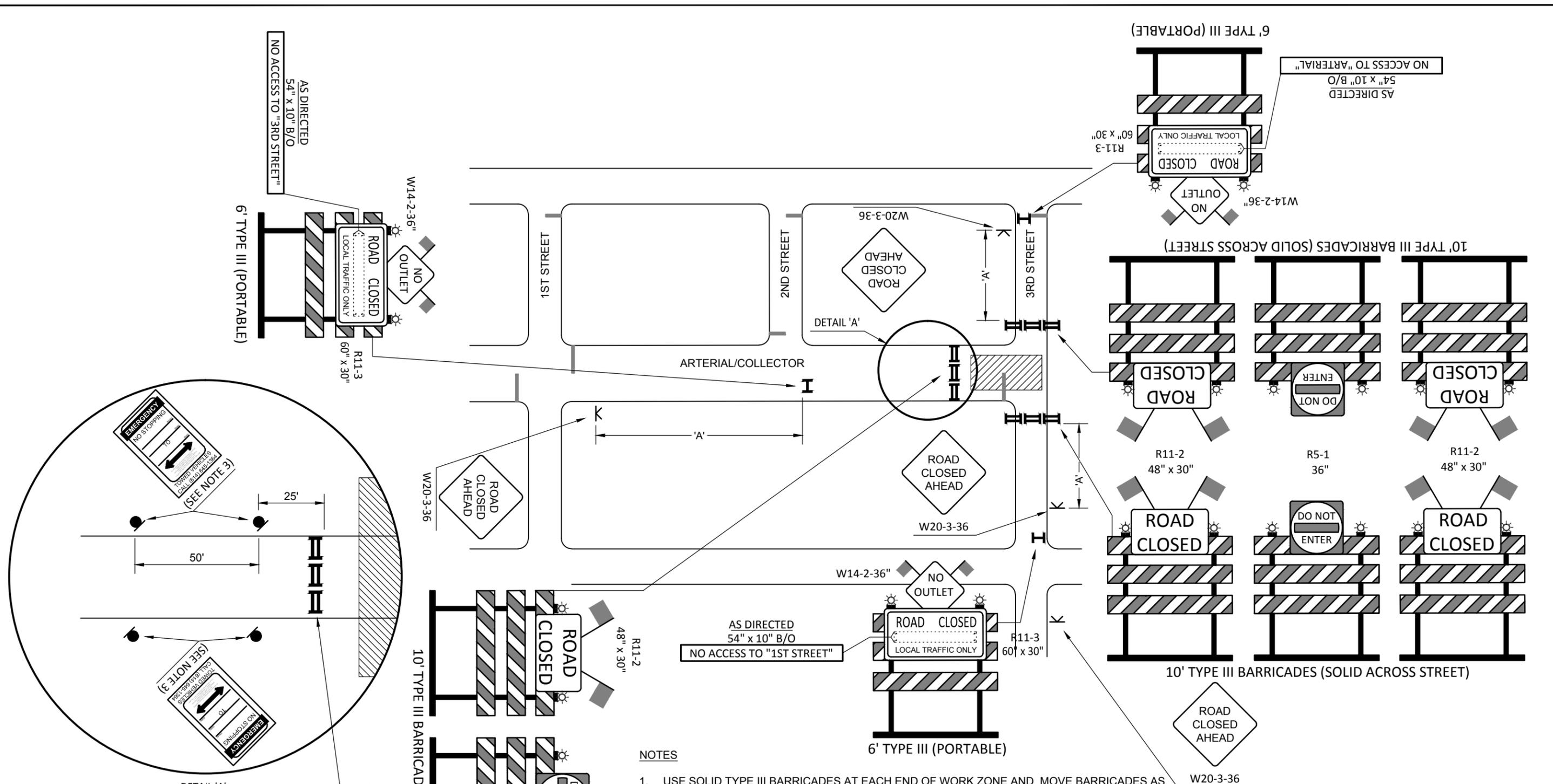
**NOTES**

- IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.  
  
USE SOLID TYPE III BARRICADES AT EACH END OF WORK ZONE AND MOVE BARRICADES AS WORK PROGRESSES.  
  
DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.
- FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.

**MOVING CLOSURE, THREE WAY INTERSECTION**

**STREET CLOSURES**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 8 OF 10



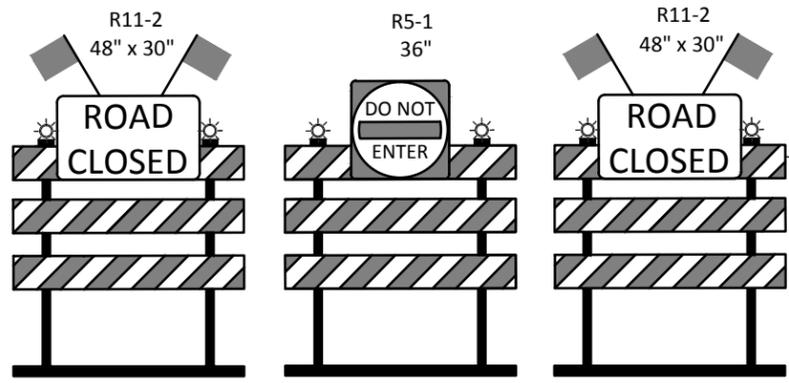
DETAIL 'A'  
(APPLIES TO ALL DIRECTIONS AHEAD OF CLOSURE)

**NOTES**

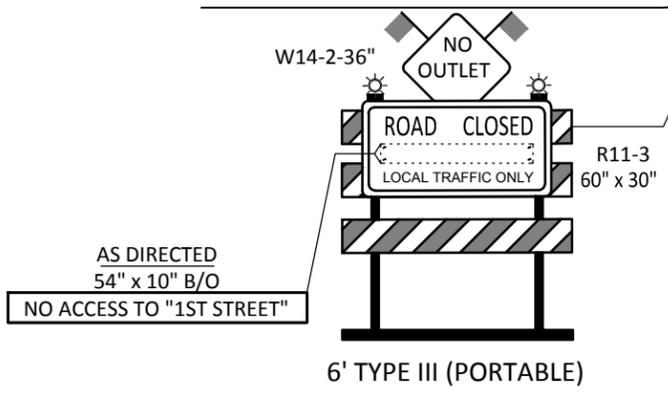
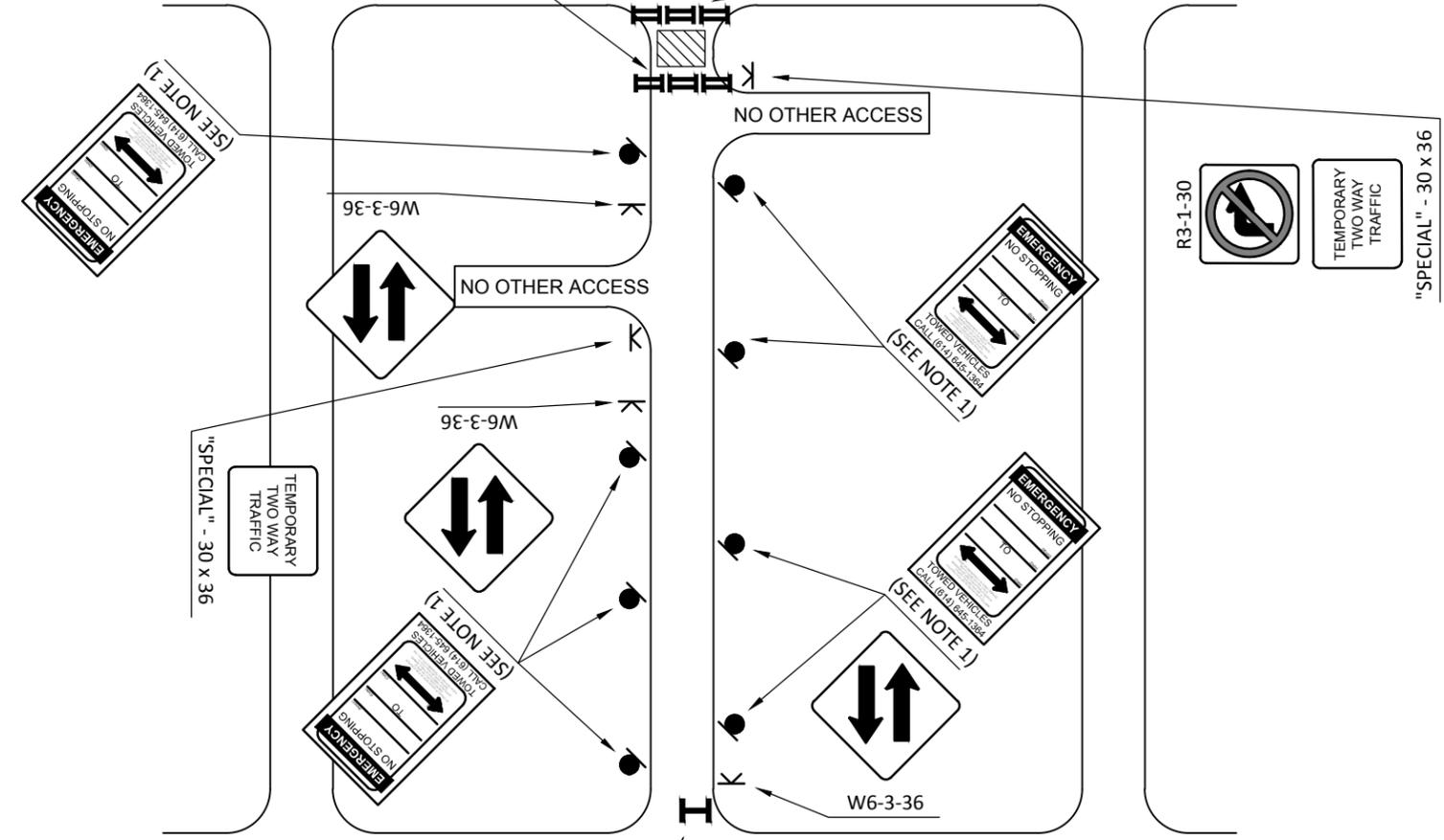
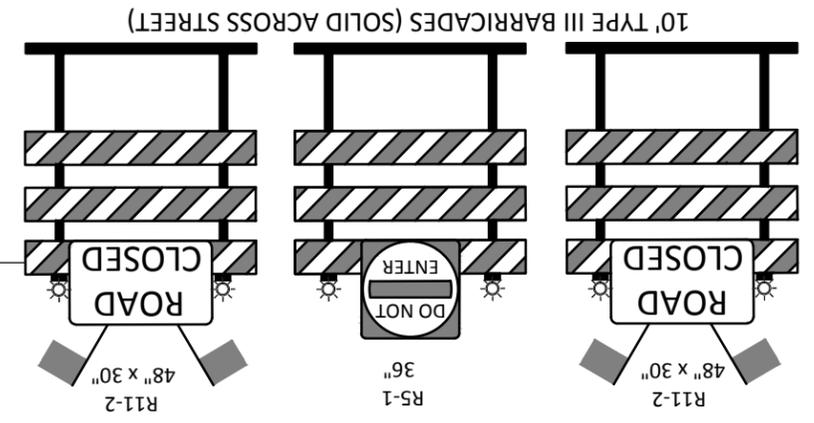
1. USE SOLID TYPE III BARRICADES AT EACH END OF WORK ZONE AND MOVE BARRICADES AS WORK PROGRESSES.
  2. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.  
  
IF A DRIVE FALLS WITHIN THE SOLID BARRICADE, THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER TO PROVIDE ACCESS.
  3. DETOURS SHALL BE REQUIRED FOR ALL TOTAL CLOSURES ON ARTERIAL AND COLLECTOR STREETS. RESIDENTIAL STREETS DO NOT REQUIRE A DETOUR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.

**MOVING CLOSURE, T- INTERSECTION**

<b>STREET CLOSURES</b>	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015 SHT 9 OF 10



10' TYPE III BARRICADES (SOLID ACROSS STREET)



6' TYPE III (PORTABLE)

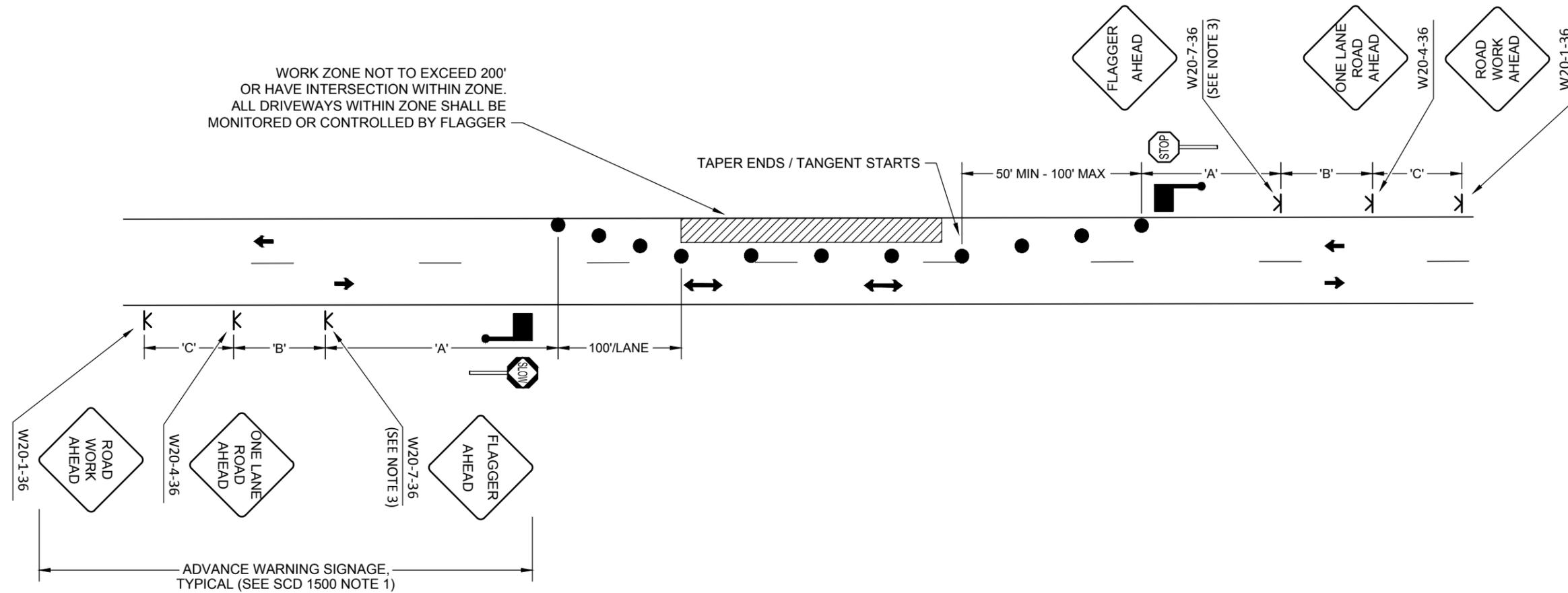
NOTES

1. THE CONTRACTOR SHALL INSTALL TEMPORARY "EMERGENCY NO STOPPING ANYTIME" SIGNS MOUNTED ON EXISTING UTILITY POLES OR SIGN POSTS, DRUMS OR 42" CONES. SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES AND HOURS OF RESTRICTION. SIGNS CAN BE OBTAINED THROUGH PUBLIC SERVICE PERMIT OFFICE AND MUST BE POSTED 72 HOURS PRIOR TO ANY VEHICLE BEING TOWED.

ONE-WAY STREET, CLOSED, TEMPORARY TWO-WAY

STREET CLOSURES

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1540</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 10 OF 10



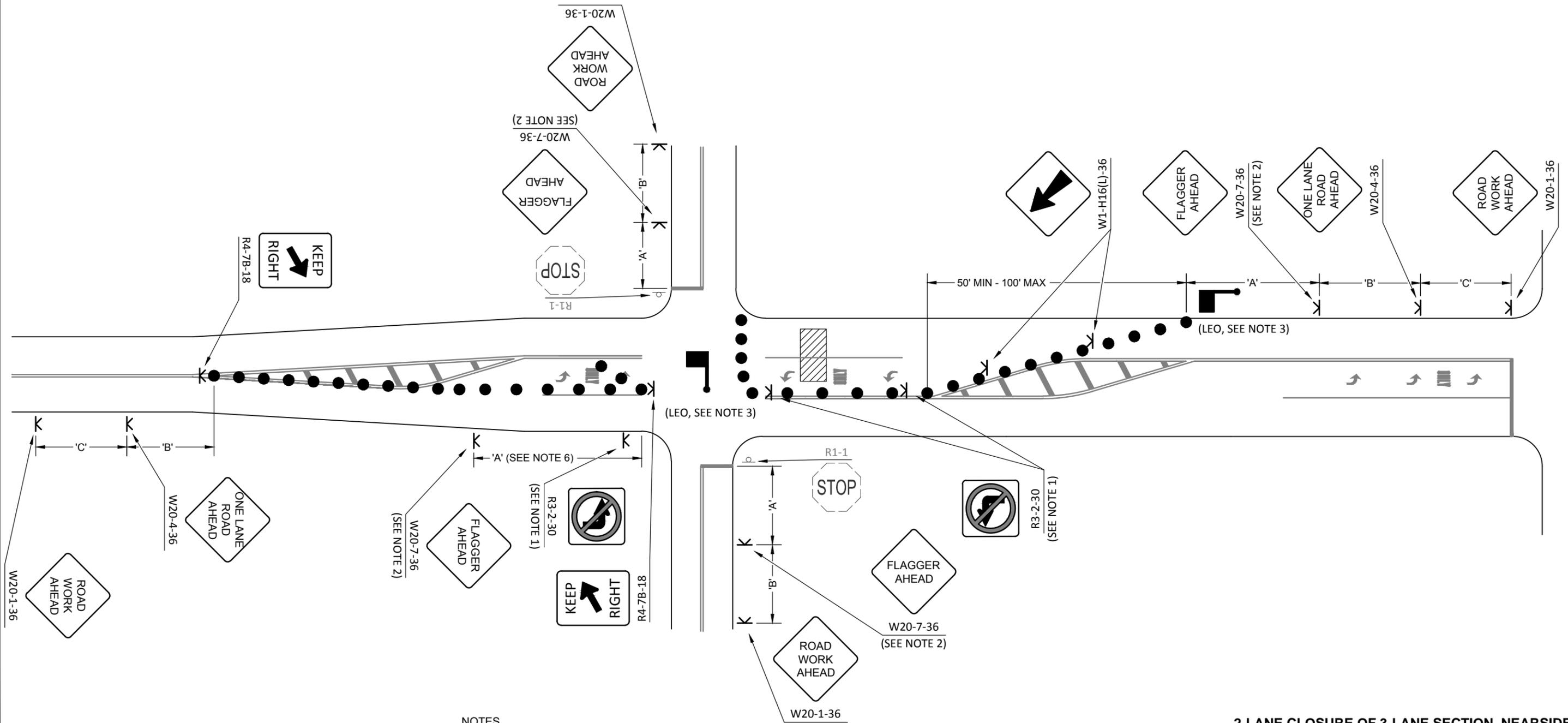
**NOTES**

1. FOR ADDITIONAL NOTES, TABLES, AND SYMBOL LEGEND SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 1500.
2. ON STRAIGHT ROADWAYS WITH SHORT WORK ZONES (50') IN LOW VOLUME SITUATIONS, WHERE THE FLAGGER IS VISIBLE TO ROAD USERS FROM BOTH DIRECTIONS, A SINGLE FLAGGER VISIBLY POSITIONED TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS MAY BE USED.
3. NO SYMBOLS, TEXT ONLY.
4. FLAGGER USING STOP/SLOW PADDLE - SEE OMUTCD SECTION 6E.03.

**TWO-WAY, ONE-LANE**

**FLAGGING OPERATIONS**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1550</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 1 OF 3



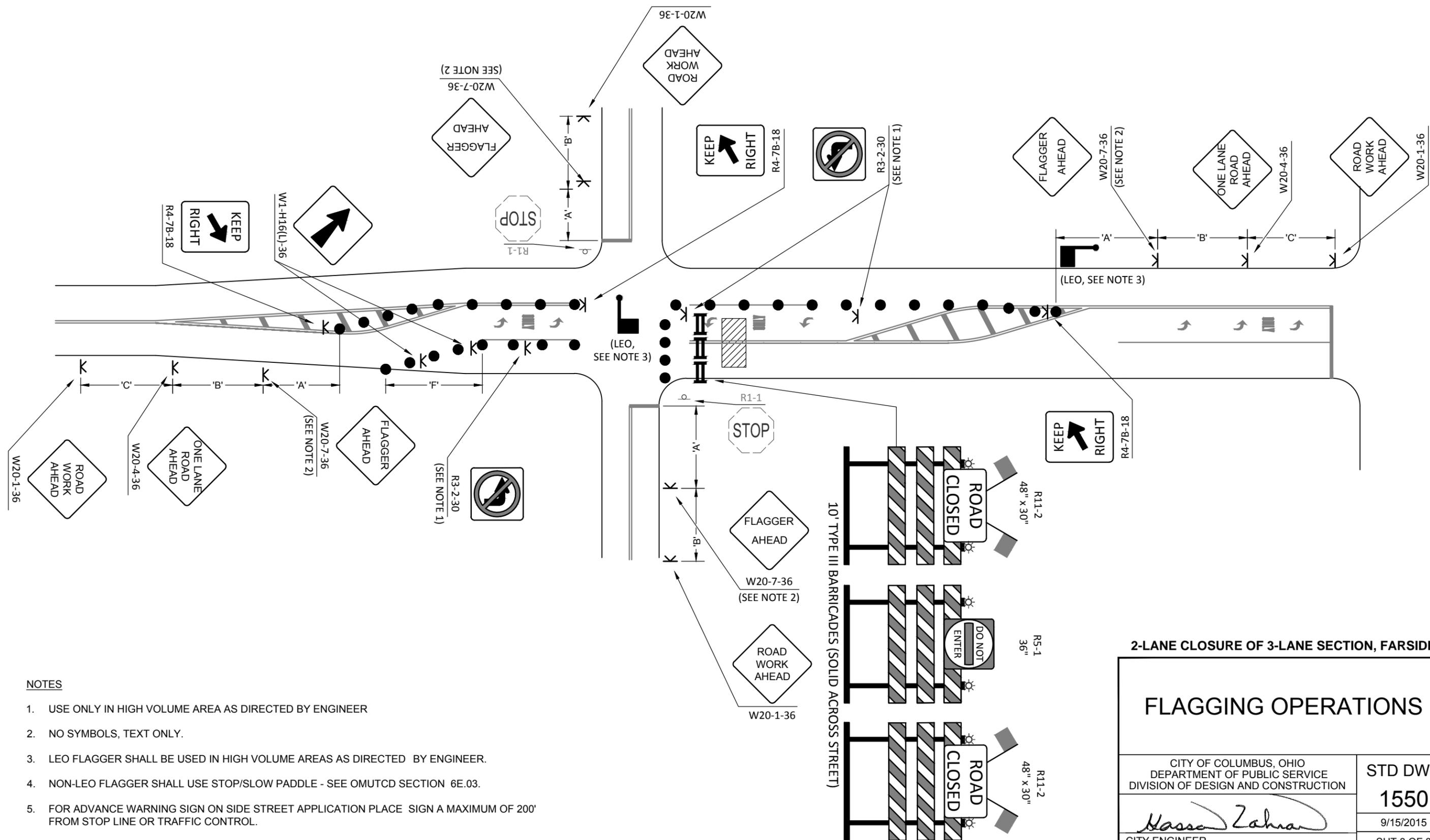
**NOTES**

1. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER
2. NO SYMBOLS, TEXT ONLY.
3. LEO FLAGGER SHALL BE USED IN HIGH VOLUME AREAS AS DIRECTED BY ENGINEER.
4. NON-LEO FLAGGER SHALL USE STOP/SLOW PADDLE - SEE O MUTCD SECTION 6E.03.
5. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.
6. MAXIMUM SIGN SPACING IS 100' FROM TRAFFIC CONTROL.

**2-LANE CLOSURE OF 3-LANE SECTION, NEARSIDE**

**FLAGGING OPERATIONS**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1550</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 2 OF 3



**NOTES**

1. USE ONLY IN HIGH VOLUME AREA AS DIRECTED BY ENGINEER
2. NO SYMBOLS, TEXT ONLY.
3. LEO FLAGGER SHALL BE USED IN HIGH VOLUME AREAS AS DIRECTED BY ENGINEER.
4. NON-LEO FLAGGER SHALL USE STOP/SLOW PADDLE - SEE OMUTCD SECTION 6E.03.
5. FOR ADVANCE WARNING SIGN ON SIDE STREET APPLICATION PLACE SIGN A MAXIMUM OF 200' FROM STOP LINE OR TRAFFIC CONTROL.

**2-LANE CLOSURE OF 3-LANE SECTION, FAR SIDE**

**FLAGGING OPERATIONS**

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1550</b>
<i>Hassan Zahran</i> CITY ENGINEER	9/15/2015
	SHT 3 OF 3