Temporary Traffic Control (MOT)

Presented By: Mark DiPiero

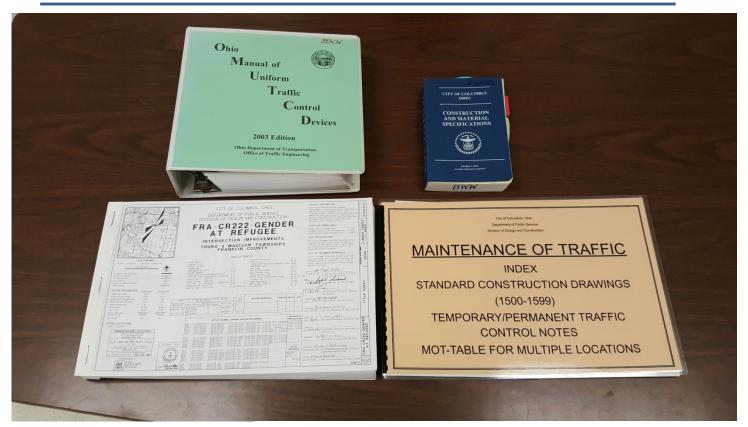
Scott Porter

Keith Farrell





Where does it come from?



FHWA - Part 6, MUTCD 2009

ODOT - OMUTCD 2012 Part 6

DPS - CMSC Item 614

- Plans, Permits



DEPARTMENT OF PUBLIC SERVICE

Maintenance of Traffic Standard Drawings 1500-1550

- MOT Standard drawings signed 09/15/2015
- Std Dwg 1500 -Notes, Tables, Legend, and Components of a Temporary Traffic Control Zone
- Std Dwg 1510 Lane Closures
- Std Dwg 1511 Dynamic Closure
- Std Dwg 1520 Lane Closures at Intersections
- Std Dwg 1530 Lane Closures (Downtown)
- Std Dwg 1540 Street Closures
- Std Dwg 1550 Flagging Operations
- Future Drawings Pedestrian Detours/Sidewalk Closures and Bike Lane Closures
- City Website- <u>https://columbus.gov/standarddrawings</u>



Permit



903 - Excavation Permit ROW, Sidewalk and Street

DEPARTMENT OF PUBLIC SERVICE 50 West Gay Street, Columbus, Ohio 43215 Phone: 614-645-7497

Status: Issued

Status Date: 01/11/2018

Permit Number: EP-18-00270

Issued to:

Contact Person / Email : MILLER PIPELINE /

24hr Phone Number : 614-777-8377

For Organization:

LOCATION/ADDRESS OF PROPOSED WORK OR EVENT 983 E MOUND ST

Purpose

OPEN CUT TO INSTALL NEW SERVICE

Parking Meter Numbers to be Bagged. For Issues with meter hooding, please contact the Permit Office at 614-645-7497 during Mon.-Frl. between hours of 7:30 a.m. to 5:00 p.m. After hours or weekends, contact 614-679-4353 or 614-580-0044. No Meters

This permit shall be valid between hours of: 8AM - 5PM for a maximum period of 90 consecutive days from 01/11/2018 to 4/10/2018

SPECIAL INSTRUCTIONS:

MUST CALL FOR INSPECTION 645-5550 BACKFILL, PAVEMENT RESTORATION, OR CONCRETE FORMS

PLEASE CALL 645-5550 TO REPORT PLACEMENT OF STEEL PLATES - LEAVE STREET NAME, PERMIT # AND EXACT LOCATION OF PLATES ON VOICE MAIL

Administrator - Original signature in RED ink

Application Fee

80.00 \$80.00

This work has a significant traffic impact.
Two notification

Two notification calls required

BACK OF PERMIT.

Construction Coordinato
Paving the Way

NOTIFICATION

NUMBERS ON

before work starts.

THE ORIGINAL OF THIS FORM MUST BE AT THE JOB SITE

MUST CONTACT DPS PERMIT OFFICE 24 HOURS PRIOR TO EXCAVATION (614-645-7497)

Unless alternate/specific instructions are listed above

See reverse side for additional instructions

COC001 - 903-905-906-922 - 20171121

ALL WORK PERFORMED UNDER THIS PERMIT SHALL BE DONE AS DESCRIBED UNDER COLUMBUS CITY CODE TITLE 9, CHAPTERS 903 and 905, AND ALL APPLICABLE SPECIFICATIONS AND STANDARD DRAWINGS (available upon request)

APPLICATION FEE, PROCESSING FEE, REISSUE FEE, AND INSPECTION FEES ARE NON-REFUNDABLE

<u>UTILITY LOCATES REQUIRED</u> - Forty eight (48) hours prior to commencing any excavation, permit holders are required to contact the Ohio Utilities Protection Service (OUPS), and non-OUPS member City Divisions, to request the location of underground utilities within their proposed work limits. OUPS may be reached at (800) 362-2764, or by dialing 811.

REQUIRED INSPECTION - The City reserves the right to require on-site inspections of backfill operations and pavement restorations. Additional fees may apply for work requiring above average inspections levels. Anticipated inspection requirements and associated fees are delineated on your permit, see reverse side.

Excavations, and/or placement of materials, (whether new, replacement, or restoration) associated to this permit must be pre-approved by the City's designated Inspector(s) overseeing this permit's work. Any work performed, or materials installed, without pre-approval by the Inspector(s), shall be subject to removal at no cost to the City. In addition, fines and/or penalties may be imposed, as described under City Code Title 9. Any clarification regarding the inspection process can be obtained by calling our Permit Office at (614) 645-5550.

<u>PROPOSED CHANGES TO SCOPE OF WORK FOR PREVIOUSLY ISSUED PERMITS</u> - Permit holders may not make changes to the scale, scope and/or location of their work without specific pre-approval by the Permit Section.

ROAD CLOSURE NOTIFICATION REQUIREMENTS - Seventy Two (72) hours (3 days) prior to commending any roadway lane closures, and 120 hours (5 days) prior to any full roadway closures, PERMIT HOLDERS ARE REQUIRED TO CONTACT THE CITY OF COLUMBUS, TEMPORARY TRAFFIC CONSTRUCTION COORDINATOR AT (614) 643-6269 OR (614) 645-5845. THEY MUST ALSO CONTACT THE CITY? PAVING THE WAY OFFICE AT (614) 643-PAVE (7283) ON THIS SAME SCHEDULE. Approved traffic control devices shall be furnished, erected, maintained and removed by the permit holder in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices. Emergency No Parking Signs are to be posted 72 hours (3 days) prior to commencement of lane or roadway dosures.

A Columbus Law Enforcement Officer(s) (L.E.O.) is required when working at signalized intersection(s), or as directed by the City of Columbus as a part of this permit, or the inspection thereof. To schedule an officer, call (614) 645-4795 at Columbus Police Department's Special Duty Office.

<u>PARKING METERS</u> - Any work proposed that may impact parking meters, must be pre-approved and specifically described and itemized within permit wording. Otherwise any associated parking meter occupancy shall be considered a parking violation in accordance with onsite signing and subject to fine. When permitted to occupy a hooded parking meter location, the permit holder must have a copy of their valid permit on visible display on the front dash of each vehicle.

NOTES

- This permit is not valid within "NO STOPPING" zones, except when within a full closure area that has been approved as a part of
 this permit.
- When wheelchair ramp construction will be required, contact the City of Columbus ADA Coordinator at (614) 645-0285 for a
 determination of the type and location of ramp(s) prior to commencing that construction.
- When City-owned trees may be, or are impacted by your construction activities, contact the City of Columbus Forrester at (614) 645-6640 before cutting any part of the tree, or the tree's roots.
- City of Columbus Chapter 905 Sidewalk and Driveway permits are valid for 90 days from the date of issuance. All other permits are as designated thereon.
- Permits are non-transferable



Pavingtheway.org

3000 e-mail update subscribers, 100,000 + visitors

We can contact the media 24 hours a day, 7 days a week

614-645-PAVE

pavingtheway@morpc.org





Freeways and Arterials

- Full closure of either direction for even a brief time.
 - Restricting lanes for more than 3 hours.
 - Any restriction occurs or lasts during peak.

Collector Streets

- Restricting traveled lanes during peak.
- Restricting traveled lanes for more than 6 hours.

Residential Streets

- Closing the street for more than half a day.
- Restricting traffic for longer than one week.



Short Duration:

- 0-15 minutes. Rotating beacon or strobe lights.
 - Cones behind truck to warn motorists.
- 15 60 minutes.
 - Rotating beacon/strobe, correct size and amount of cones placed around work zone and a minimum of one correctly placed advanced warning sign.
 - *Arrow board strongly recommended if working in the City of Columbus consider the location, crew/public safety, traffic volume etc....



Short Term Stationary:

- More than 1 hour less than 12 hours. Daylight only
- Rotating beacon/strobe
- Correct size and amount of cones placed in tapers and around work zone.
- All advance warning signs spaced properly.
- Arrow board for all lane closures.



Intermediate Term:

- Any nighttime work (over 1 hour) up to 3 days
- Rotating beacon/strobes
- Correct size and amount of channelizing devices
- 42" cones/drums with steady burn lights
- Correctly placed advanced warning signs on all affected streets.
- Arrow board in all lane closures

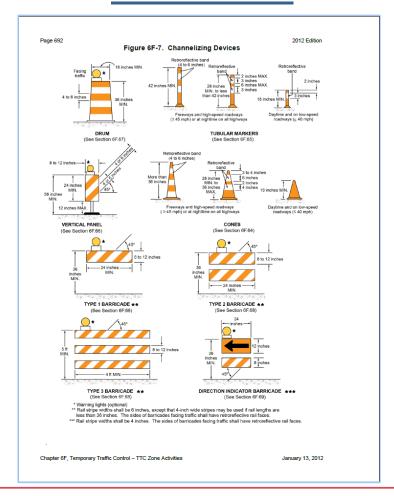


Long Term:

- Beyond 3 days.
- Rotating beacons/strobes, lights
- Drums with lights for all tapers and tangents
- Permanently mounted, correct advanced warning signs, with lights, on all affected streets.
- Arrow board for all lane closures



Devices



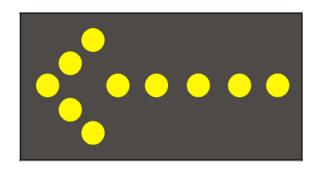


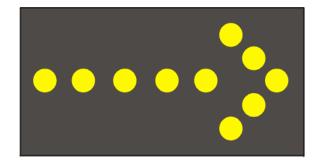
Devices

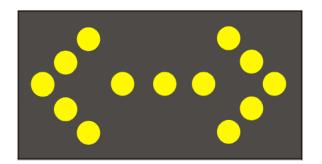


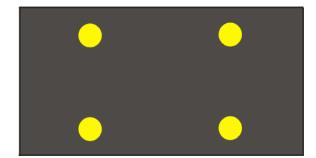


Flashing Arrow Panels

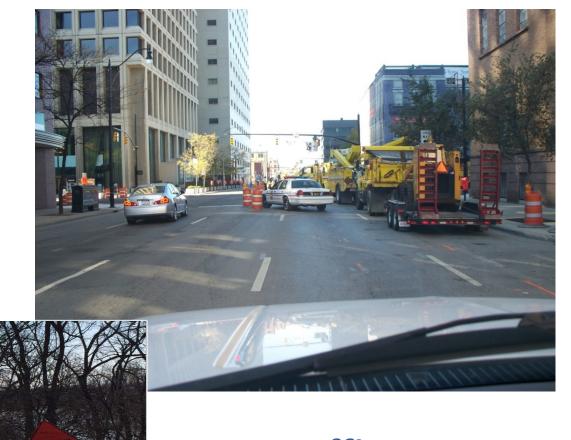








A police cruiser is NOT

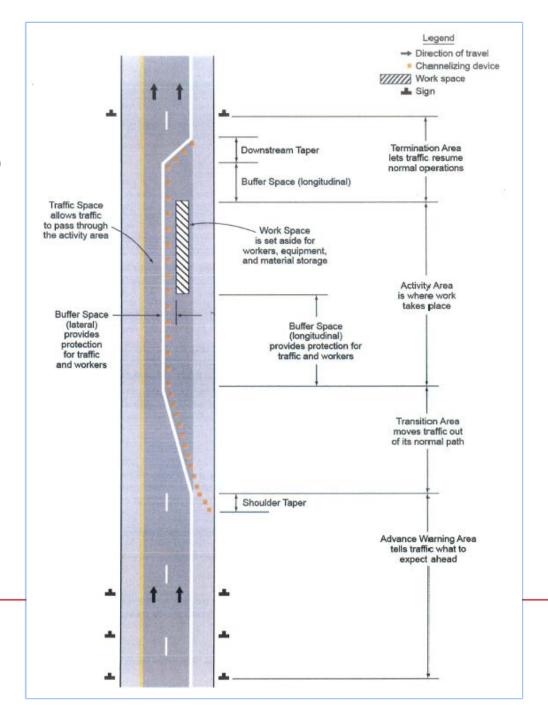


a traffic control device

What are the parts of a

Traffic Control Zone?





Advance Warning Area

Advance Warning Signs:

- Warning
- Information
- Regulatory





Advance Warning Area

Competing with:

- Cell Phones
- Texting
- Radio
- Advertisements
- Other signage...





Advance Warning Signs

Suggested Advance Warning Sign Spacing									
Road Type	Sign A	Sign B	Sign C						
Urban (Low Speed)	100'	100'	100'						
Urban (High Speed)	350'	350'	350'						
Rural	500'	500'	500'						
Expressway/Freeway	1000'	1500'	2640'						



Transition Area

- Drums
- Cones
- Arrow Boards









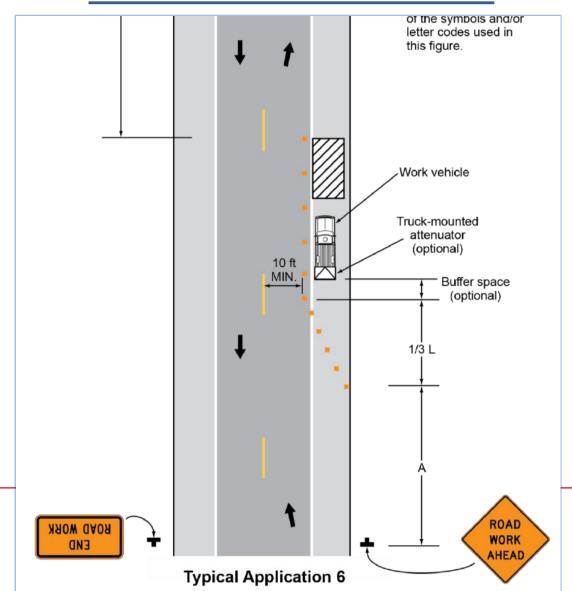


Device Spacing Chart

Speed Limit	Minimum Taper Length (Lane Width in Feet)				Minimum Number of Devices (Lane Width in Feet)				Maximum Device Spacing		Speed Limit
MPH	9	10	11	12	9	10	11	12	Along Taper	After Taper	MPH
25 or below	94	105	115	125	5	6	6	7	20	25	25 or below
30	135	150	165	180	7	8	9	9	20	30	30
35	184	205	225	245	10	11	12	13	20	35	35
40	240	270	294	320	12	14	15	16	20	40	40
45	405	450	495	540	11	12	13	14	40	45	45
50	450	500	550	600	12	13	14	15	40	50	50
55	495	550	605	660	13	14	16	17	40	50	55
60	540	600	660	720	14	15	17	18	40	50	60
65	585	650	715	780	15	17	18	20	40	50	65



Shoulder Closure

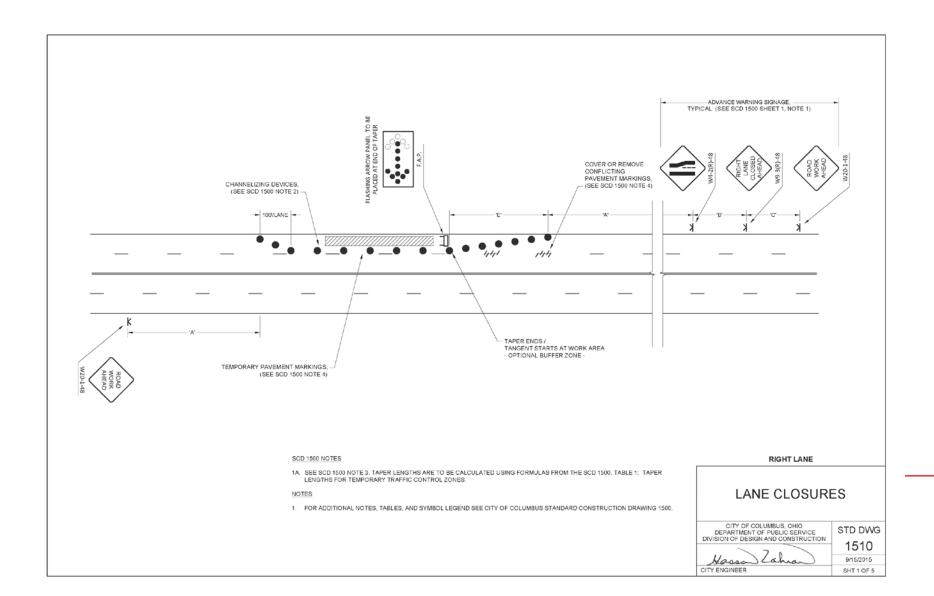


THE CITY OF

ANDREW J. GINTHER, MAYOR

DEPARTMENT OF PUBLIC SERVICE

Lane Closure

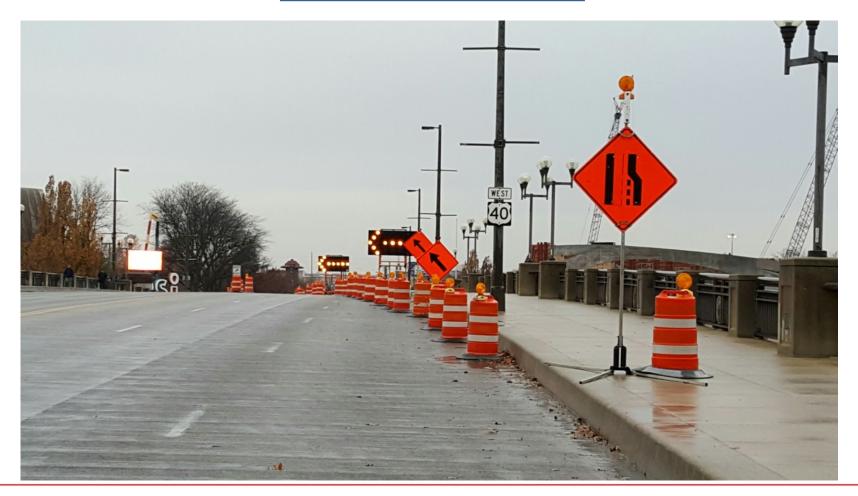


Lane Closure



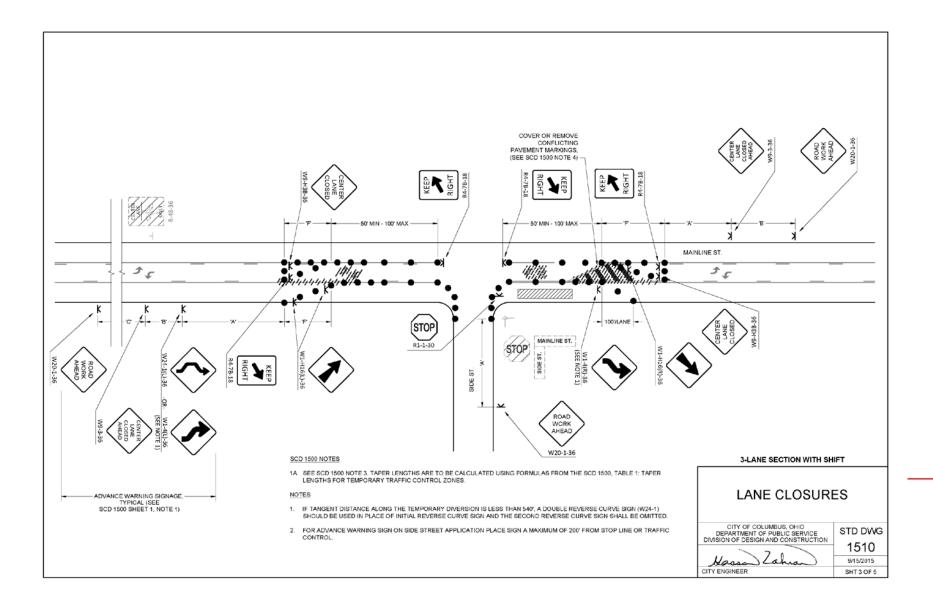


Lane Closure





Lane Shift



Lane Shift



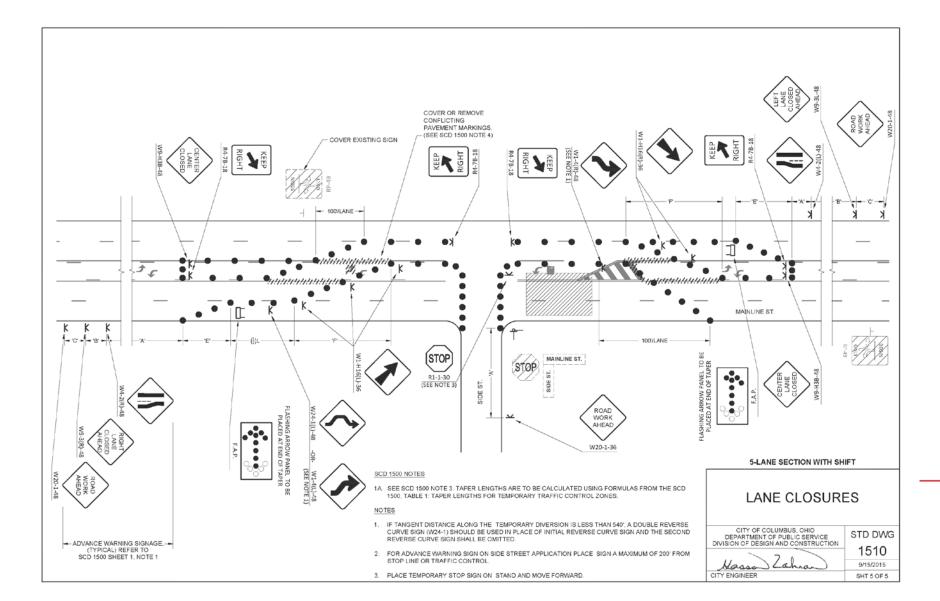


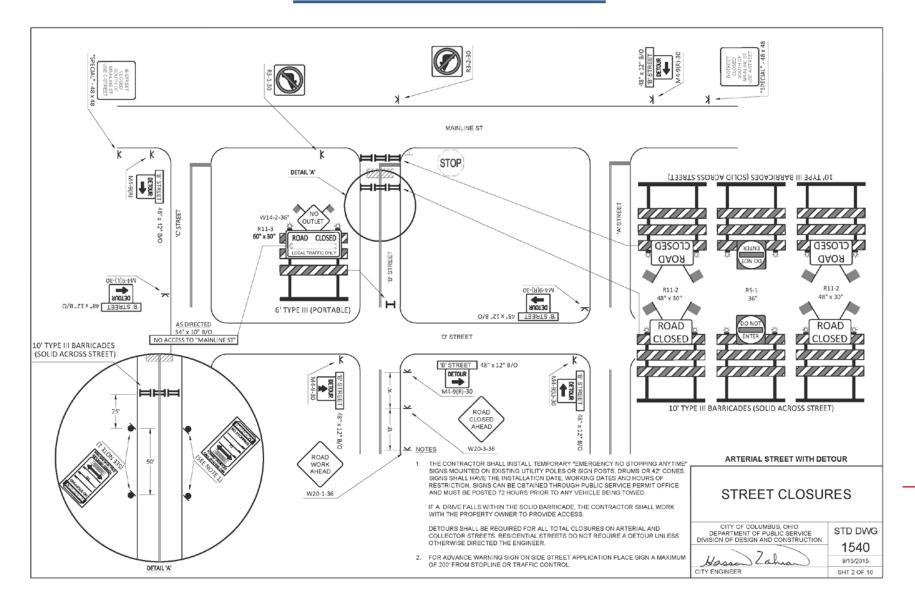
Lane Shift





Lane Closure With A Shift









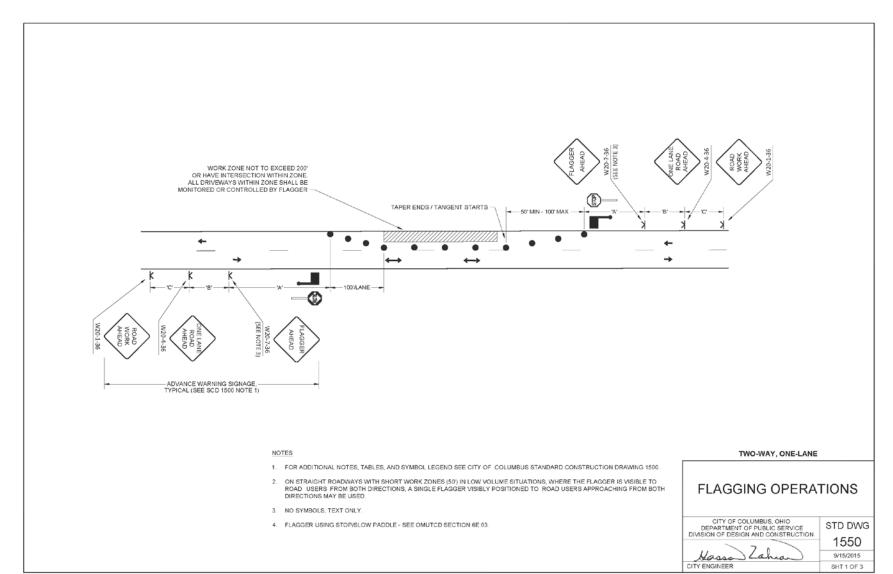








Flagging

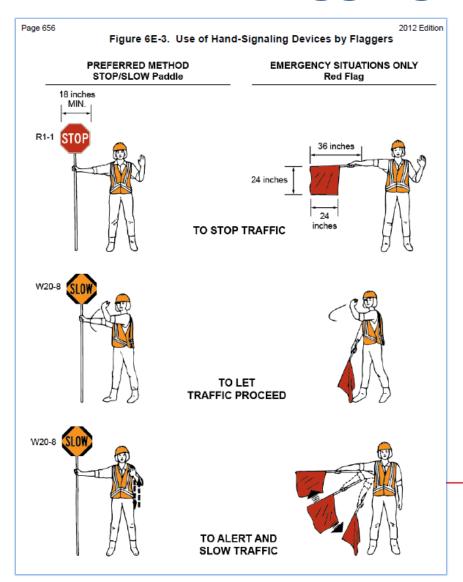


Flagging





Flagging Procedure



- Use flags when working in a STOP controlled intersection. Not a Stop/Slow paddle.
- When flagging on a
 Residential street, a self
 regulating operation may be
 used. Yield signs and "One
 Lane Road Ahead" signs
 must be used

Private Development

Long Term – 1-2 Years

Separate Permit Separate MOT

Things to think about...

pavement markings, peds, bicyclists, barrier wall, attenuators, fencing, bus stops, signals, fire connection

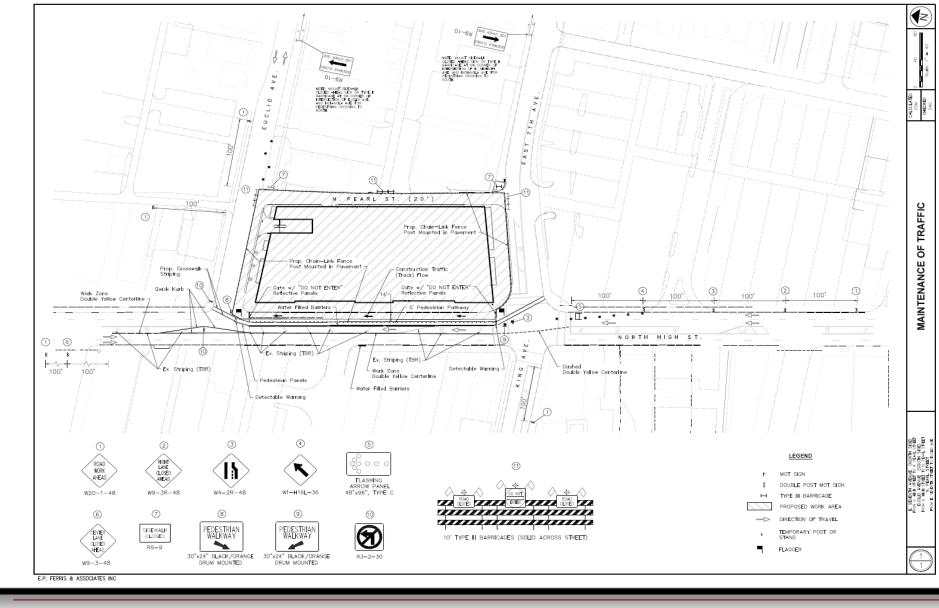


Law Enforcement Officers

L.E.O.'s

- Special Duty
 - Can be used for Flagging
 - Required within any signalized intersection
 - Required within City of Columbus for 2-way, 1-lane flagging on arterial roadways
 - A cruiser is not always needed, and usually not recommended
 - In downtown as directed by permit









Projed Name	Contractor	Work Description	Traffic Control Contractor	Date
E. MAIN ST.	CONTINENTAL BUILDING	PEDESTRIAN WALKWAY	Paul Peterson Co	11-02-2016
THESE DRAWINGS NOT TO SCALE APPROVED BY PRINT:	DATE	The graphical illustration of traffic control devices from a professional engineer nor does it supers Control Devices, current edition. The Paul Pe liability in connection with the traffic control succession assumed that every acceptable traffic as this document is for reference purposes reproduced and is intended only for internal i	sede the Ohio Manual of Uniform Traffic aterson Co. and employees assume no iggestions or information herein made. It ic control procedure is contained herein only. This document may not be	



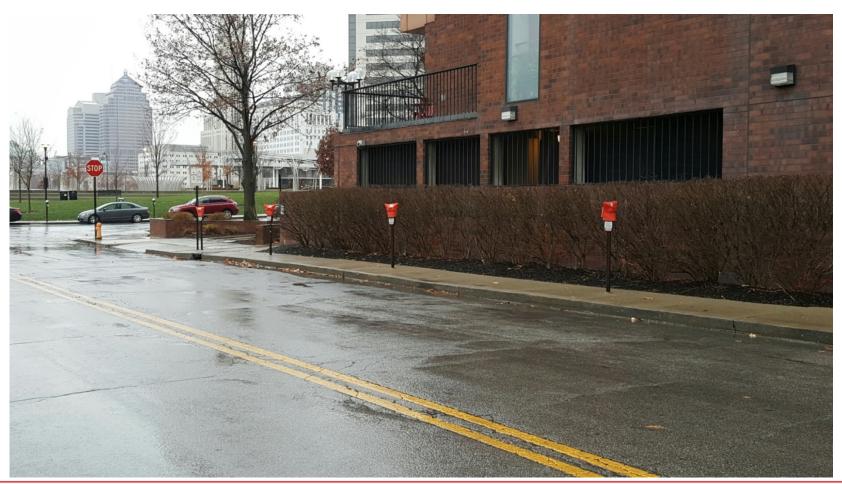
Parking Meters

- Have parking meters bagged if area needed for work
- May not tow vehicle that has paid for a meter
- Submit application 48 hours in advance
- Pay fees at 50 W Gay St.





Parking Meters



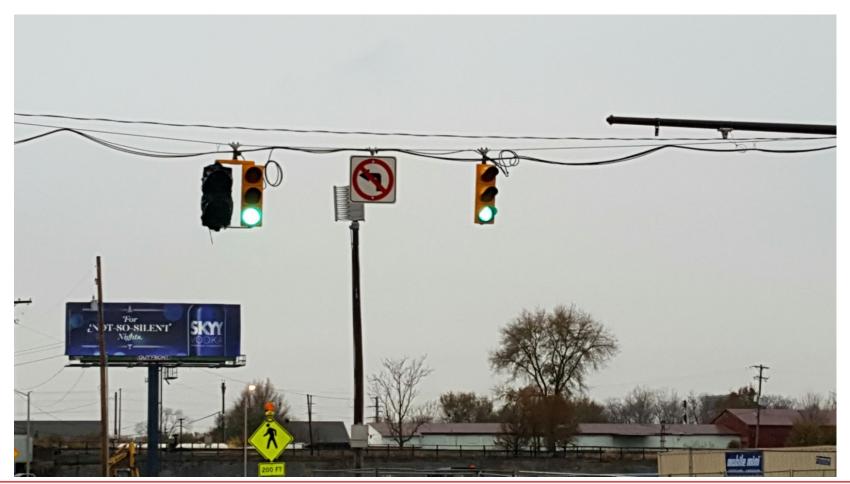


Un-metered Parking

- Obtained from permit office at 50 W Gay St.
- Must have permit
- Post signs 72 hours in advance
- State dates and hours of parking restriction
- Submit photos of posted signs to permit office
- Recommend posting on drums

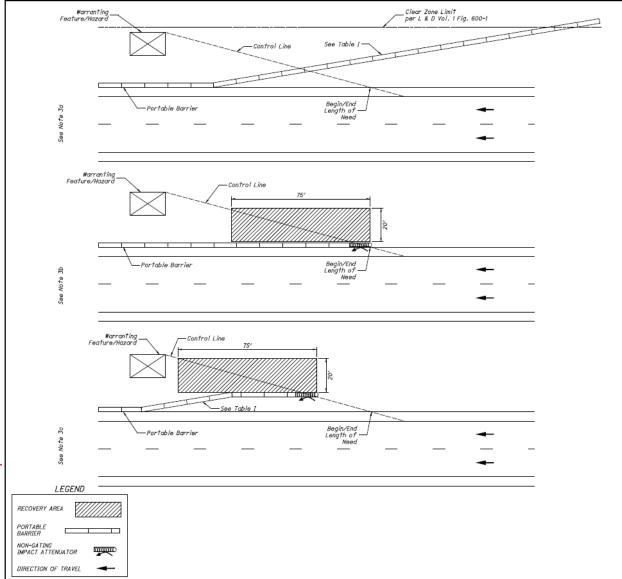


Cover/Align Signal Heads





Concrete Barrier



NOTES:

- 1. Attenuators shall be installed per the manufacturer's specifications.
- 2. Recovery area shall have slopes 3:1 or flatter and be free of workers, hazards, equipment, drop-offs, and material storage.
- 3. The Contractor shall select one of the three acceptable options for terminating portable barrier:
- Terminate flared section of portable barrier outside clear zone with tapered end only where cross slopes are 10:1 or flatter.
 b) Terminate portable barrier with an impact attenuator.
- A non-gating attenuator may be included in the length of need measurement.
- or need measurement.

 I fiar a section of portable barrier to the length of need control line and terminate with an impact attenuator. A non-gating impact attenuator may be included in the flared section of portable barrier.
- The Contractor shall submit documentation to the Engineer, 2 weeks prior to implementation, for acceptance
- a) Deviating from the three acceptable options for terminating portable barrier.

Documentation shall explain any deviations and verify that the recovery area fulfills the manufacturer's specifications and Note 2.

b) Using a gating impact attenuator in lieu of a non-gating impact attenuator.

The gating impact attenuator length shall not be included as part of the length of need or recovery area requirements. Additional portable barrier will need to be added. The additional cost for the additional barrier required for a gating impact attenuator shall be included in the cost of the gating impact attenuator.

Documentation shall verify that the extended recovery area fulfills the manufacturer's specifications and

Gating impact attenuators shall not be used in gore locations or within the clear zone between bi-directional traffic.

TABLE I

SPEED LIMIT (MPH)	PB FLARE RATE MINIMUM
25	8:1
30	8:1
35	9:1
40	10:1
45	12:1
50	14:1
55	16:1
60	18:1
65	19:1
70	20:1

PLACEMENT

ATTENUATOR IMPAC

201017

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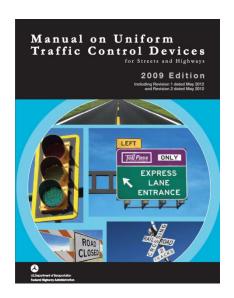
S

Impact Attenuator





<u>Pedestrians</u>



The need and control of all road users, motorists, bicyclist, and pedestrians... through a temporary Traffic Control zone <u>shall</u> be an essential part of the highway construction, utility work, or maintenance operations....

- Must maintain access for pedestrians
- Must be a hard smooth surface (temporary asphalt)
- Must use sidewalk closed signs in accordance with the OMUTCD posted on Type I barricades

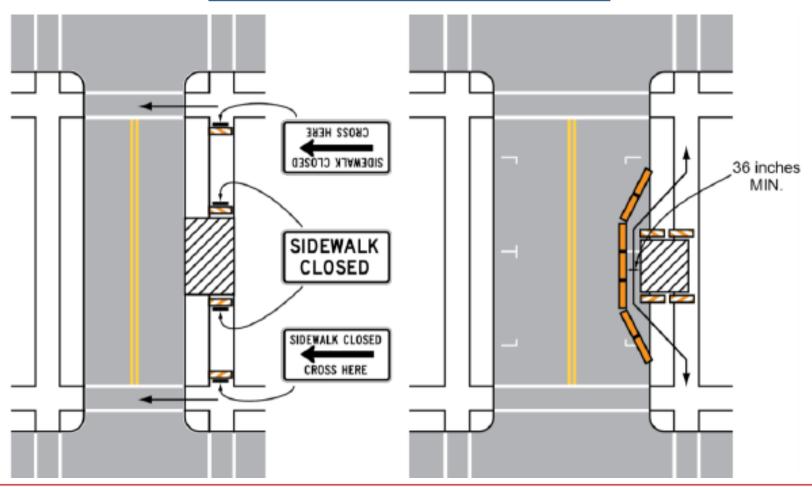


<u>Pedestrians</u>

- Must maintain access for pedestrians
- Must be a hard smooth surface (temporary asphalt)
- Existing dirt/grass footpath can be maintained in stone
- Must use sidewalk closed signs in accordance with the OMUTCD
- Signs need to be posted on Type I barricades
- Temporary ramps need to be ADA compliant



Sidewalk Closure





Sidewalk Closure

- SIDEWALK CLOSED USE OTHER SIDE In advance of actual closure at nearest ADA crossing
- SIDEWALK CLOSED At actual closure point





Temporary Barrier







Defined Walkway







Temporary Ramp





Temporary Surface



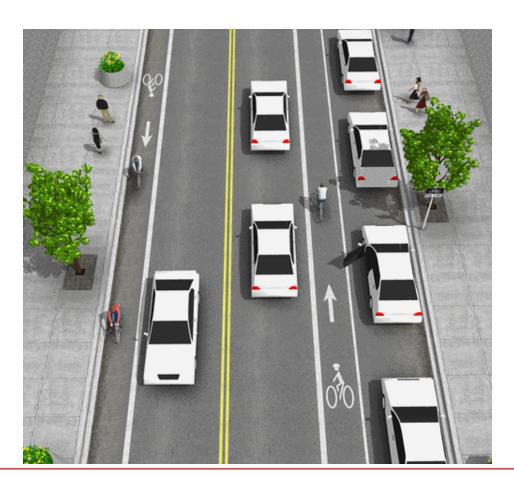


Temporary Surface





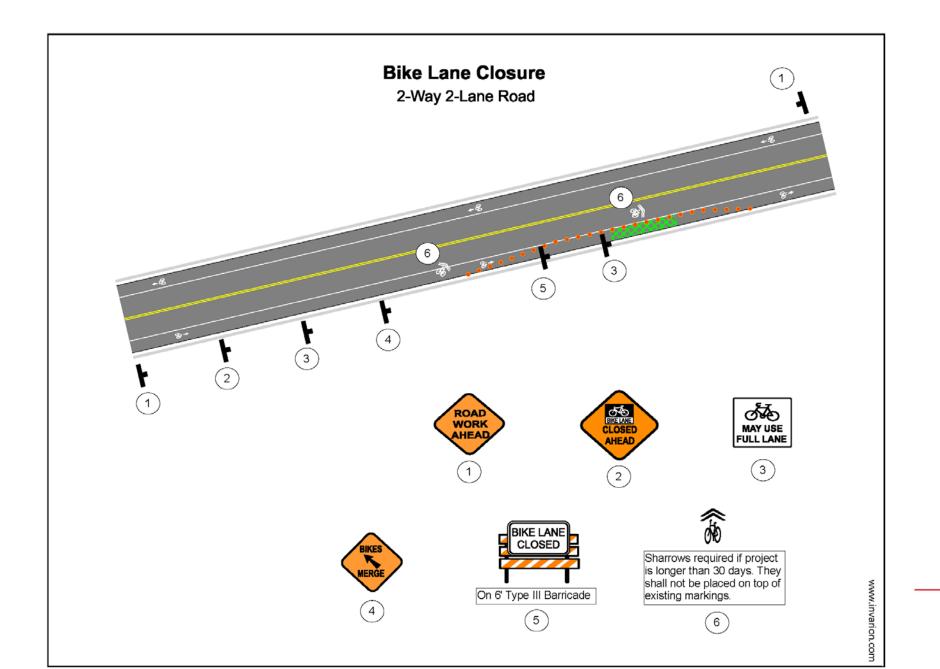
Bicycle Facilities

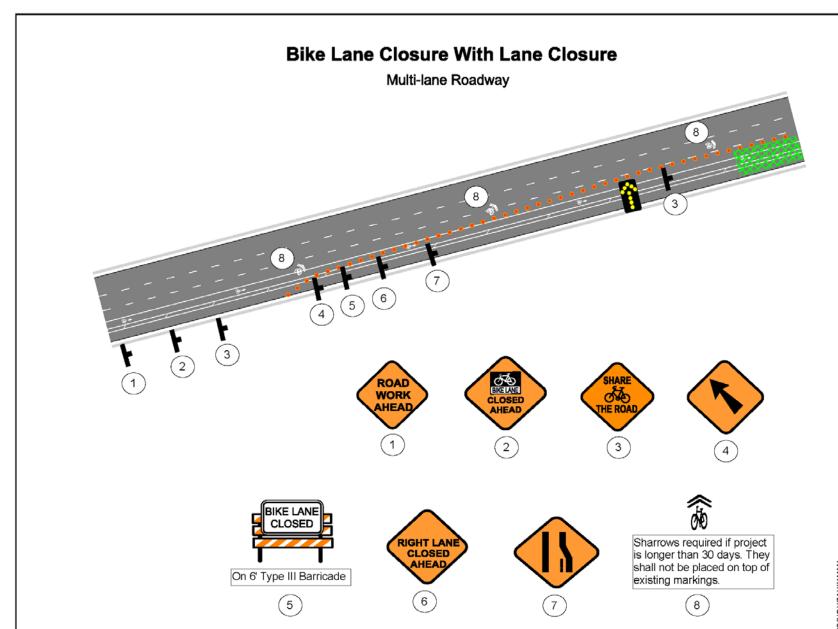












Have a clear message





Have a clear message





Contact Numbers

City of Columbus Police Department

- 614-645-4545 CPD Non-emergency
- 614-645-4843 Traffic Bureau Lt. Paul Weiner
- 614-645-4844 Traffic Bureau Lt. Paul Weiner
- 614-645-4795 Special Duty Office

Mark DiPiero

- 614-332-7472 Cell
- 614-645-5845 Office

Scott Porter

- 614-554-8138 Cell
- 614-645-0355 Office

Keith Farrell

- 614-949-0217 Cell
- 614-645-6269 Office



Remember...

Ohio Law requires you to move over or slow down when approaching vehicles with flashing warning lights!



