

**Cuyahoga County  
Department of Public Works  
Cuyahoga County Engineer's  
Sample Maintenance of Traffic Notes**

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**Note to Designer:** In addition, the ODOT Traffic Engineering Manual (TEM) Notes most frequently used for Maintenance of Traffic are: 642-13 Placement of Asphalt Concrete, 642-14 Trench For Widening, 642-15 Overnight Trench Closing, 642-20 Work Zone Markings and Signs and 642-22 Item 614 – Replacement Sign.

**PLAN ENDORSEMENT NOTES (11/04/2013)**

**Designer Note:** One of the notes below (CUY-M01A - CUY-M01F) shall be used on the Title Sheet as appropriate. Note CUY-M01A through CUY-M01E are reprinted from Section 1302.12.3 of the ODOT L&D Manual, Volume Three. It may be necessary to alter these notes to some degree so that the intent clearly and accurately reflects the project conditions.

CUY-M01A

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**Designer Note:** Use when existing traffic is not to be rerouted.

CUY-M01B

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET \_\_\_\_.

**Designer Note:** Use when existing traffic is to be rerouted.

CUY-M01C

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY, EXCEPT AS NOTED ON SHEET \_\_\_\_, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**Designer Note:** Use when existing traffic is to be rerouted for brief periods.

CUY-M01D

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY, EXCEPT AS NOTED ON SHEET \_\_\_\_, AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

**Designer Note:** Use when existing traffic is to be rerouted for the majority of time.

CUY-M01E

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEET \_\_\_\_, DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**Designer Note:** Use when existing traffic is to be rerouted for approximately half of the construction time.

CUY-M01F

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PARTIAL CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEET \_\_\_\_, THAT DETOURS WILL BE PROVIDED AS SHOWN HEREIN, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**Designer Note:** Use when only one direction of existing traffic is to be rerouted, with the other direction not rerouted. (i.e. One-Way Traffic)

CUY-M02A

**ITEM 614 - MAINTAINING TRAFFIC (Road Closed) (01/04/1999)**

THE MAKING OF THIS IMPROVEMENT REQUIRES THAT THE ROAD BE CLOSED TO THROUGH TRAFFIC. DETOURS SHALL BE AS SHOWN ON SHEET NO. \_\_\_\_.

**Designer Note:** Use this note for all two lane, two way roads where two way traffic cannot be maintained, and local access need not be provided, such as at culvert replacements.

Note CUY-M03 should be added to this note.

CUY-M02B

**ITEM 614 - MAINTAINING TRAFFIC (Part Width-Flaggers) (05/28/2010)**

THROUGH TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SECTION 614 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWINGS MT-97.10 AND MT-97.11.

THE LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE SPECIFICATION REQUIREMENTS FOR PROTECTION OF COMPLETED PAVEMENT COURSES, AND SHALL BE AT THE APPROVAL OF THE ENGINEER.

**Designer Note:** Use this note for all two lane, two way roads where two way traffic can be maintained at all times, with flaggers.

This note shall not be used where concrete base repair requires closure of one lane of a two lane road unless work zone traffic signals as shown on MT-96.11 are specified, nor on grade, drain, and pave type projects.

Note CUY-M03 should be added to this note.

CUY-M02C

**ITEM 614 - MAINTAINING TRAFFIC (Part Width-Multi Lane) (09/29/2003)**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 502 STRUCTURE FOR MAINTAINING TRAFFIC, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC, AND/OR TEMPORARY SURFACES USING 410, 614, AND 616, AS SHOWN ON SHEETS \_\_\_\_\_. PART WIDTH CONSTRUCTION SHALL BE USED TO FACILITATE MAINTAINING TWO WAY TRAFFIC. WORK SHALL BE DONE IN PHASES AS OUTLINED BELOW.

**Designer Note:** County version of ODOT's TEM Note (642-3). Use this note for multi lane roadways, where two way traffic can be maintained at all times, and where an asphalt overlay is being installed.

A description of the phasing to be used must be added in a separate note.

Note CUY-M03 should be added to this note.

CUY-M02D

**ITEM 614 - MAINTAINING TRAFFIC (Part Width-Traffic Signals) (05/28/2010)**

TWO WAY THROUGH TRAFFIC SHALL BE MAINTAINED ON ONE LANE AT ALL TIMES THROUGH THE USE OF WORK ZONE TRAFFIC SIGNALS IN ACCORDANCE WITH SECTION 614.10 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWINGS MT-96.11, MT-96.20, AND/OR MT-96.26 AS SPECIFIED IN THE PLANS.

**Designer Note:** Use this note for all two lane, two way roads where two way traffic will be maintained at all times, with work zone traffic signals. Include only those standard construction drawings which are applicable to the project.

Note CUY-M03 should be added to this note.

CUY-M02E

**ITEM 614 - MAINTAINING TRAFFIC (Part Width- One Way) (01/04/1999)**

THE MAKING OF THIS IMPROVEMENT REQUIRES THAT THE ROAD BE CLOSED TO THROUGH TRAFFIC. DETOURS SHALL BE AS SHOWN ON SHEET NO. \_\_\_\_\_.

LOCAL ACCESS FOR ABUTTING PROPERTIES AND ADJACENT STREETS SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF PARTIAL WIDTH CONSTRUCTION, AND BY MAINTAINING ONE MINIMUM \_\_\_\_ FOOT WIDE LANE FOR \_\_\_\_\_ BOUND TRAFFIC. FOR MINIMUM SIGNING REQUIREMENTS, SEE SHEET NO. \_\_\_\_\_.

**Designer Note:** Use this note for all two lane, two way roads where two way traffic cannot be maintained at all times.

Note CUY-M03 should be added to this note.

CUY-M02F

ITEM 614 – MAINTAINING TRAFFIC ( Part Width-Multi Lane Using MT-95.31 and MT-95.32) (09/29/2003)

THROUGH TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SECTION 614 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWINGS MT-95.31 AND MT-95.32.

THE LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE SPECIFICATION REQUIREMENTS FOR PROTECTION OF COMPLETED PAVEMENT COURSES, AND SHALL BE AT THE APPROVAL OF THE ENGINEER.

**Designer Note:** Use this note for multi lane undivided roadways where two way traffic can be maintained at all times per the details on MT-95.31 and MT-95.32. Add MT-95.41 when portable concrete barrier protection is required. Where applicable, MT-95.60 and/or MT-95.61 may be required.

Note CUY-M03 should be added to this note.

CUY-M03

**ITEM 614 – MAINTAINING TRAFFIC (11/04/2013)**

THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ABUTTING PROPERTY. THE CONTRACTOR SHALL MAINTAIN ADEQUATE PEDESTRIAN WALKS AT ALL INTERSECTIONS, INCLUDING ASPHALT CONCRETE WALKS, WHERE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY PLASTIC DRUMS, (FLASHING ARROW BOARDS COMPLYING WITH SS821,) AND TRAFFIC SIGNS AND WORK ZONE PAVEMENT MARKINGS, AS SHOWN ON SHEET \_\_\_.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR, EXCEPT AS NOTED BELOW.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, SUCH AS TYPE III BARRICADES, LIGHTING, FLAGGERS, AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

EXISTING TRAFFIC CONTROL DEVICES (SIGNS AND/OR TRAFFIC SIGNALS), LOCATED WITHIN THE WORK AREA, WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED, IN COMPLIANCE WITH THE MANUAL, AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF RELOCATION, IF REQUIRED, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

THE LENGTH AND DURATION OF LANE CLOSURES AND/OR TRAFFIC RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. THE INTENT IS TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614 - MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**Designer Note:** County Version of ODOT's TEM 614 Note (including 642-7 and 642-12). This note should be prefixed with Note CUY-M02 (A, B, C, D, E, or F) or a similar note.

Omit reference to Flashing Arrow Boards on 2-Lane, 2-Way roads, where their use is not permitted.

CUY-M04

**DETOUR LIMITATION (09/29/2003)**

TWO-WAY TRAFFIC WITH A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED \_\_\_ CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET \_\_\_. LIQUIDATED DAMAGES SHALL BE ASSESSED (IN ACCORDANCE WITH SECTION 108.07 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS) (IN THE AMOUNT OF \$\_\_\_ PER DAY) FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT, WHICH LIMIT SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE FOR THE PURPOSE OF THIS NOTE.

**Designer Note:** County Version of ODOT's TEM Note (642-4). Use this note if there is a time limitation placed on the detour. Liquidated damages in accordance with 108.07 is normally specified. If a larger amount is desired, written documentation of the reason and justification for the amount shall be submitted with the Conformance Review. Only one of the phrases in the parentheses should be used in the note. Usually the liquidated damages will be assessed per 108.07, rather than a fixed dollar amount.

CUY-M05

**WINTER TRAFFIC LIMITATION (09/29/2003)**

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 15. NOVEMBER 15 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH SECTION 108.07 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS FOR EACH CALENDAR DAY BEYOND NOVEMBER 15 OR PRIOR TO APRIL 15 THAT ALL LANES ARE NOT OPEN AND AVAILABLE TO TRAFFIC.

**Designer Note:** County version of ODOT's TEM Note (642-5). Use this note when a winter traffic limitation is desired. The dates indicated above may be varied as appropriate to the project.

CUY-M06

**ITEM 615 – ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN (04/25/2005)**

IN ADDITION TO THE APPLICABLE REQUIREMENTS OF ITEM 615, THIS ITEM INCLUDES ANY REQUIRED PREPARATORY WORK, MAINTENANCE AND THE SUBSEQUENT REMOVAL OF THE ITEMS LISTED IN THE "ESTIMATED QUANTITIES FOR MAINTAINING TRAFFIC" PLAN NOTE. PAYMENT FOR ALL NECESSARY LABOR, EQUIPMENT AND ADDITIONAL MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT BID FOR ITEM 615 – ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN.

**Designer Note:** Typically use this note whenever the CUY-M07 "Estimated Quantities for Maintaining Traffic" plan note is used.

CUY-M07

**ESTIMATED QUANTITIES FOR MAINTAINING TRAFFIC (11/04/2013)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC:

ITEM 410 - TRAFFIC COMPACTED SURFACE TYPE A OR B, AS PER PLAN	___ CU. YD.
ITEM 410 - TRAFFIC COMPACTED SURFACE TYPE C, AS PER PLAN	___ CU. YD.
ITEM 608 - 2" ASPHALT CONCRETE WALK	___ SQ. FT.
ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	___ CU. YD.
ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN	___ SIGN MONTH
ITEM 616 - WATER	___ M GAL.
ITEM 616 - CALCIUM CHLORIDE	___ TON

USE OF SLAG IS NOT PERMITTED FOR ITEM 410 MATERIAL.

FOR ITEM 614 – PORTABLE CHANGEABLE MESSAGE SIGN, IT IS INTENDED THAT A MINIMUM OF \_\_\_\_ ( ) SIGNS BE SUPPLIED FOR APPROXIMATELY \_\_\_\_ ( ) MONTHS EACH, TOTALING \_\_\_\_ ( ) SIGN MONTHS.

**Designer Note:** County version of ODOT's TEM Note (642-9). Add this note when quantities of the materials listed above, or other items, are added to the plan as estimated quantities. Estimated quantities for maintaining traffic are normally required when through or local traffic is being maintained on a facility during construction. Quantities of 614 Asphalt Concrete or 410 will depend on the number of drives and pavement cuts required because of drainage or utilities. Generally, every 50 cubic yards of Item 410 will require one M Gal. of Item 616 Water (minimum of 50 M Gal. for both MOT and Dust Control). Every 10 M Gal. of water will require one ton of Item 616 Calcium Chloride.

CUY-M08

**NOTIFICATION (11/04/2013)**

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST 72 HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGE IN TRAFFIC PATTERN OR CLOSING ANY STREET TO TRAFFIC:

THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS - PUBLIC INFORMATION OFFICER  
THE OHIO DEPARTMENT OF TRANSPORTATION - DISTRICT 12 - PUBLIC INFORMATION OFFICE  
THE GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
LAKETRAN  
THE CUYAHOGA COUNTY BOARD OF DEVELOPMENTAL DISABILITIES  
THE UNITED STATES POSTAL SERVICE  
THE \_\_\_\_\_ BOARD OF EDUCATION  
THE \_\_\_\_\_ POLICE, FIRE AND SERVICE DEPARTMENTS  
THE CITY OF CLEVELAND: DIVISION OF ENGINEERING AND CONSTRUCTION  
DIVISION OF STREETS  
DIVISION OF TRAFFIC ENGINEERING  
DIVISION OF EMERGENCY MEDICAL SERVICE (EMS)  
DIVISION OF FIRE  
DIVISION OF POLICE  
CLEVELAND MUNICIPAL SCHOOL DISTRICT

**Designer Note:** Insert the appropriate school system and municipality name(s) in this note.  
Include LAKETRAN if they have any routes affected by the project.  
Include the Board of Developmental Disabilities if a detour or one way operation is involved.

Include the US Postal Service if Rural (roadside) Mailboxes are present and a detour is being used, or if the mailboxes must be relocated due to construction activities or Maintenance of Traffic requirements. Notice should go to the branch manager or Postmaster of the appropriate Branch.

For work in or adjacent to the City of Cleveland, use the appropriate entry above.

If there are major traffic generators within the project limits, or which will be affected by the project, such as private schools, hospitals, regional shopping centers, major plants, etc., they should be added to the notification list.

CUY-M09

**CONSTRUCTION TRAFFIC (01/04/1999)**

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT AUTHORITY.

**Designer Note:** Include this note on all projects.

CUY-M10

**DETOUR SIGNING (07/07/2011)**

ADVANCE TRAFFIC SIGNING AND SUPPORTS, INCLUDING DETOUR SIGNING, SHOWN ON THE PLANS BEYOND THE WORK LIMITS OF THE PROJECT, SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY CUYAHOGA COUNTY FORCES.

CONSTRUCTION WORK ZONE APPROACH SIGNING AND SUPPORTS, BARRICADES AND SIGNS ON BARRICADES SHOWN ON THE PLANS BEYOND THE WORK LIMITS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR, AND ALL ASSOCIATED COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 – MAINTAINING TRAFFIC.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS.

**Designer Note:** Include this note when Cuyahoga County forces will post detour signing beyond the work limits and the County will provide the signs.

CUY-M11

**ITEM 614 - DETOUR SIGNING, AS PER PLAN (11/04/2013)**

ADVANCE TRAFFIC SIGNING AND SUPPORTS, INCLUDING DETOUR SIGNING, CONSTRUCTION WORK ZONE APPROACH SIGNING, BARRICADES AND SIGNS ON BARRICADES SHOWN ON THE PLANS BEYOND THE WORK LIMITS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR, AND ALL ASSOCIATED COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 – DETOUR SIGNING, AS PER PLAN.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS.

**Designer Note:** Include this note when the Contractor's forces will post detour signing beyond the work limits and the contractor will provide the signs.

CUY-M12

**ITEM 614 - DETOUR SIGNING, AS PER PLAN (11/04/2013)**

ADVANCE TRAFFIC SIGNING AND SUPPORTS, INCLUDING DETOUR SIGNING, SHOWN ON THE PLANS BEYOND THE WORK LIMITS OF THE PROJECT, SHALL BE FURNISHED BY THE CONTRACTOR. ONLY NEW ALUMINUM SIGNS WITH TYPE G SHEETING, MEETING THE REQUIREMENTS OF SECTION 630 SHALL BE FURNISHED. THE COUNTY WILL ERECT, MAINTAIN, REMOVE AND RETAIN SAID SIGNS.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS.

SIGNS AND ANY NECESSARY SUPPORTS TO BE INSTALLED BY COUNTY FORCES SHALL BE DELIVERED TO THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SIGN SHOP, 4000 BROOKPARK ROAD, CLEVELAND, OHIO 44134 (216-741-3019) NO LESS THAN FIVE WORKING DAYS PRIOR TO IMPLEMENTATION OF THE DETOUR. DELIVERIES MAY BE MADE BETWEEN 9:00 AM AND 2:00 PM, MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS.

BARRICADES AND SIGNS ON BARRICADES SHOWN ON THE PLANS BEYOND THE WORK LIMITS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR, AND ALL ASSOCIATED COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 – DETOUR SIGNING, AS PER PLAN.

**Designer Note:** Include this note when Cuyahoga County forces will post detour signing beyond the work limits and the contractor will provide the signs.

CUY-M13

**CONSTRUCTION WARNING SIGNS (05/28/2010)**

IMMEDIATELY PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION WARNING SIGNS SHOWN ON SHEET(S) \_\_\_\_\_.

AS A MINIMUM, G20-1 SIGNS FACING TRAFFIC ENTERING THE PROJECT, AND G20-2 SIGNS FACING TRAFFIC LEAVING THE PROJECT, SHALL BE PLACED AS SHOWN IN THE MANUAL. ADDITIONAL G20-1 SIGNS SHALL BE PLACED AFTER EACH MAJOR INTERSECTION, IN BOTH DIRECTIONS, AND AFTER EACH SUSPENSION AND RESUMPTION OF WORK.

ADDITIONALLY, A W20-1 SIGN SHALL BE PLACED ON EACH INTERSECTING STREET A MINIMUM OF 200 FEET IN ADVANCE OF THE PROJECT, AND ON THE APPROACHES TO THE PROJECT A MINIMUM OF 500 FEET IN ADVANCE OF THE WORK LIMITS. G20-2 SIGNS SHALL ALSO BE INSTALLED ON EACH MAJOR INTERSECTING STREET, FACING TRAFFIC LEAVING THE PROJECT, A MINIMUM OF 200 FEET FROM THE PROJECT.

THE TRAFFIC CONTROL DEVICES SHOWN ON MT-97.10 AND MT-97.11 (MT-95.31 AND MT-95.32) SHALL BE IN ADDITION TO THOSE INDICATED ABOVE. IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ALSO INSTALL W8-11 "UNEVEN LANES", W8-7 "LOOSE GRAVEL," AND/OR W21-2 "FRESH OIL/TAR" SIGNS.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS.

**Designer Note:** For use on projects that don't otherwise detail/specify the above signage, as required/applicable.

CUY-M14

**ITEM 614 - REPLACEMENT SIGN (09/29/2008)**

FLAT SHEET SIGNS, USING TYPE G SIGN SHEETING, FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED BUT IN GOOD CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER.

WHEN ADDITIONAL SIGNS ARE FOUND BY THE ENGINEER TO BE NECESSARY FOR THE SAFE MAINTENANCE OF TRAFFIC, ABOVE AND BEYOND THE SIGNING SHOWN IN THE PLANS AND/OR ON THE STANDARD CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE ADDITIONAL SIGNS UNDER THIS ITEM, AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614 - REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF \_\_\_\_\_ EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**Designer Note:** County version of ODOT's TEM Note (642-22). This note is to be used on all 4 lane, high speed projects which will last longer than 6 months, and on other projects where there is a high probability that a number of signs will be damaged during construction, and may be used when a contingency quantity of additional signs may be needed for maintenance of traffic, beyond those specified in the plan.

CUY-M15

**ITEM 614 - BARRIER REFLECTORS AND/OR OBJECT MARKERS (11/04/2013)**

BARRIER REFLECTORS (TYPE B AND/OR B2) AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL, AND BARRIER REFLECTORS (TYPE A AND/OR A2) SHALL BE INSTALLED ON ALL GUARDRAIL USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS AND OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO ITEM 626 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWING MT-101.70, EXCEPT THAT THE SPACING SHALL BE 25 FEET.

AN ESTIMATED QUANTITY OF THE FOLLOWING HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - OBJECT MARKER, _____ - WAY	_____ EACH
ITEM 614 - BARRIER REFLECTOR, TYPE A	_____ EACH
ITEM 614 - BARRIER REFLECTOR, TYPE A2	_____ EACH
ITEM 614 - BARRIER REFLECTOR, TYPE B	_____ EACH
ITEM 614 - BARRIER REFLECTOR, TYPE B2	_____ EACH

**Designer Note:** County version of ODOT's TEM Note (642-26). Include only those items from the above list as are needed for the project.



**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (05/28/2010)**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE \_\_\_\_\_ HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**Designer Note:** ODOT's TEM Note (642-55). See **Section 640-19** of the Traffic Engineering Manual (TEM) for additional information. The plans shall clearly specify when and where the LEO is to be utilized. This note should be edited to conform to the project requirements.

**TEMPORARY RAMPING OF VERTICAL SURFACES (04/25/2005)**

IN ORDER TO PROVIDE FOR LOCAL ACCESS, LONGITUDINAL VERTICAL FACES ABUTTING DRIVES SHALL BE TEMPORARILY RAMPED. TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM OF TEN (10) FEET IN LENGTH AND TRAFFIC SHALL BE WARNED WITH W8-1 "BUMP" SIGNS IN ADVANCE OF THE RAMPED AREAS.

ALL CASTINGS ENCOUNTERED SHALL BE SET TO GRADE AND PAID FOR UNDER VARIOUS ITEMS DESCRIBED ELSEWHERE IN THE GENERAL NOTES OR SPECIFICATIONS. THE CASTING ELEVATION DIFFERENTIAL SHALL NOT BE GREATER THAN ONE (1) INCH WHEN EXPOSED TO TRAFFIC.

ALL TEMPORARY RAMPING SHALL BE INSTALLED, AT THE DIRECTION OF THE ENGINEER, USING ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

**Designer Note:** Include this note on all rehabilitation and/or resurfacing projects.

CUY-M18

**CONSTRUCTION ADJACENT TO DRIVES (04/25/2005)**

ACCESS TO COMMERCIAL AND HANDICAP PROPERTY SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, THE CONTRACTOR SHALL MAKE REASONABLE PROVISIONS TO ALLOW RESIDENTIAL ACCESS AT ALL TIMES OR OTHERWISE ALLOW RESIDENTS TO PARK SAFELY WITHIN THE PROJECT WORK LIMITS WHEN ACCESS IS NOT POSSIBLE; ALL AT THE APPROVAL/DIRECTION OF THE ENGINEER. THE MAXIMUM OUT OF SERVICE TIME FOR ANY RESIDENTIAL DRIVE SHALL BE \_\_\_\_\_ ( ) DAYS. THE PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO MAINTAIN COMMERCIAL, HANDICAP AND RESIDENTIAL ACCESS AND/OR SAFE PARKING AREAS FOR RESIDENTS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR "ITEM 614 - MAINTAINING TRAFFIC"; EXCEPT FOR THE SEPARATELY ESTIMATED ITEMS/QUANTITIES ADDITIONALLY PROVIDED IN THE PLANS FOR MAINTAINING TRAFFIC (ACCESS).

THE CONTRACTOR SHALL PLAN/STAGE ALL WORK TO MAINTAIN SAFE ACCESS TO COMMERCIAL AND HANDICAP PROPERTY AT ALL TIMES AND TO MAINTAIN SAFE ACCESS TO RESIDENTIAL PROPERTY OR PROVIDE SAFE PARKING WITHIN REASONABLE PROXIMITY TO RESIDENTIAL PROPERTY WHEN ACCESS IS UNAVAILABLE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE APPROVAL OF THE ENGINEER WHICH OUTLINES HIS/HER STRATEGY FOR THE MAINTENANCE OF SAFE ACCESS TO COMMERCIAL, HANDICAP AND RESIDENTIAL PROPERTY AND/OR FOR ALLOWING RESIDENTS TO PARK SAFELY WITHIN THE PROJECT LIMITS WHEN ACCESS IS NOT POSSIBLE. EXCEPT AS NOTED ABOVE, ALL ASSOCIATED COSTS SHALL BE INCLUDED UNDER "ITEM 614 - MAINTAINING TRAFFIC".

**Designer Note:** Use this note in conjunction with the "CUY-R15, Existing Drive and/or Drive Apron Removal/Replacement" plan note or for any project that might disrupt ingress/egress to adjacent properties. Edit as necessary.

The maximum out of service time for residential drives typically ranges from seven (7) days to twenty-eight (28) days depending on the overall project requirements and sequence of operations.

CUY-M19

**SIDE STREET CLOSURE LIMITATION (11/04/2013)**

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON THE FOLLOWING STREETS:

**(INSERT STREETS WHICH MUST REMAIN OPEN, i.e. MAJOR STREETS AND CUL-DE-SACS)**

OTHER INTERSECTING STREETS MAY BE CLOSED FOR A PERIOD NOT TO EXCEED \_\_\_ CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED.

LIQUIDATED DAMAGES SHALL BE ASSESSED (IN ACCORDANCE WITH SECTION 108.07) (IN THE AMOUNT OF \$\_\_\_ PER DAY PER INTERSECTION) FOR EACH CALENDAR DAY THAT ANY INTERSECTING STREET REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

ALL CLOSED STREETS SHALL BE BARRICADED AT THE WORK LIMITS WITH GATES AND BARRICADES PER MT-101.60 AND SIGNED WITH A "ROAD CLOSED" (R11-2) SIGN MOUNTED ON THE BARRICADES. IN ADDITION, A "ROAD CLOSED (WITH DISTANCE)" (W20-3) SIGN SHALL BE INSTALLED AT THE FIRST INTERSECTION BEYOND THE WORK, AND/OR WHERE SHOWN ON THE PLANS. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL SIGNS AND BARRICADES REQUIRED FOR THIS PURPOSE.

**Designer Note:** This note must be included when a time limit for side street closures is desired.

CUY-M20

**SIDE STREET CLOSURE LIMITATION (11/04/2013)**

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON THE FOLLOWING STREETS:

**(INSERT STREETS WHICH MUST REMAIN OPEN, i.e. MAJOR STREETS AND CUL-DE-SACS)**

OTHER INTERSECTING STREETS MAY BE CLOSED FOR A PERIOD NOT TO EXCEED \_\_\_ CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED.

NO TWO ADJACENT STREETS SHALL BE CLOSED SIMULTANEOUSLY. THE FOLLOWING STREETS SHALL BE CLOSED IN GROUPS, PER PHASE:

SECTION I, PHASE A:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION I, PHASE B:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION II, PHASE A:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION II, PHASE B:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH SECTION 108.07 FOR EACH CALENDAR DAY THAT ANY INTERSECTING STREET REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

ALL CLOSED STREETS SHALL BE BARRICADED AT THE WORK LIMITS WITH GATES AND BARRICADES PER MT-101.60 AND SIGNED WITH A "ROAD CLOSED" (R11-2) SIGN MOUNTED ON THE BARRICADES. IN ADDITION, A "ROAD CLOSED (WITH DISTANCE)" (W 20-3) SIGN SHALL BE INSTALLED AT THE FIRST INTERSECTION BEYOND THE WORK, AND/OR WHERE SHOWN ON THE PLANS. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL SIGNS AND BARRICADES REQUIRED FOR THIS PURPOSE.

**Designer Note:** This note must be included when a time limit for side street closures is desired, and it is desired to group the street closures as indicated. The wording may be modified as appropriate for the groups of streets to be closed.

CUY-M21

**CONSTRUCTION SEQUENCE (11/04/2013)**

THE RECONSTRUCTION OF \_\_\_\_\_ WITHIN THE LIMITS OF THIS PROJECT SHALL BE ACCOMPLISHED IN \_\_\_\_\_ CONSTRUCTION SECTIONS, AS OUTLINED BELOW:

SECTION I - FROM \_\_\_\_\_ TO \_\_\_\_\_  
SECTION II - FROM \_\_\_\_\_ TO \_\_\_\_\_  
SECTION III - FROM \_\_\_\_\_ TO \_\_\_\_\_

THE CONTRACTOR SHALL COMPLETE ALL WORK, EXCEPT FINAL PAVEMENT MARKING AND SIGNING IN THE TRANSITION ZONE BETWEEN SECTIONS, IN A GIVEN CONSTRUCTION SECTION BEFORE BEGINNING ANY WORK IN A SUBSEQUENT SECTION, SUBJECT TO THE APPROVAL OF THE ENGINEER. NORMAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BEYOND THE WORK LIMITS OF THE SECTION CURRENTLY UNDER CONSTRUCTION.

**THE CONTRACTOR MAY, AT HIS/HER OPTION, BEGIN WORK IN ANY SECTION.**

**THE CONTRACTOR MAY, AT HIS/HER OPTION, WORK IN SECTIONS \_\_\_ AND \_\_\_ CONCURRENTLY.**

**THE CONTRACTOR SHALL BEGIN WORK IN SECTION \_\_\_, FOLLOWED IN TURN BY SECTION \_\_\_, THEN SECTION \_\_\_.**

**Designer Note:** This is a sample of a note for work to be performed in multiple sections. Normally, a long project will be split into sections to reduce the impact on traffic flow, to reduce the length of a detour, or to provide different detours or traffic patterns during various periods of construction.

One of the three highlighted clauses, or something similar, is to be used to direct the contractor on any required sequence of work by section.

CUY-M22

**CONSTRUCTION PHASING (07/22/1999)**

WITHIN EACH CONSTRUCTION SECTION, WORK SHALL BE PERFORMED IN \_\_\_ PHASES.

**Add a description of the method of maintaining traffic in each phase**

**Designer Note:** Wording must be added to this note to define the method of traffic control for each phase.

Delete the underlined phrase "WITHIN EACH CONSTRUCTION SECTION," if the project is not split into sections.

CUY-M23

**CONSTRUCTION PHASING (07/16/1999)**

WITHIN EACH CONSTRUCTION SECTION, WORK SHALL BE PERFORMED IN TWO PHASES.

PHASE A SHALL CONSIST OF ALL WORK IN THE \_\_\_\_ BOUND LANES, WITH TWO WAY TRAFFIC MAINTAINED ON THE EXISTING PAVEMENT IN THE \_\_\_\_ BOUND LANES.

PHASE B SHALL CONSIST OF ALL WORK IN THE \_\_\_\_ BOUND LANES, WITH TWO WAY TRAFFIC MAINTAINED ON THE COMPLETED PAVEMENT IN THE \_\_\_\_ BOUND LANES.

**Designer Note:** Work on a multi-lane roadway where two way traffic on half of the pavement is proposed.

Delete the underlined phrase "WITHIN EACH CONSTRUCTION SECTION," if the project is not split into sections.

CUY-M24

**CONSTRUCTION PHASING (07/16/1999)**

WITHIN EACH CONSTRUCTION SECTION, WORK SHALL BE PERFORMED IN TWO PHASES.

PHASE A SHALL CONSIST OF ALL WORK IN THE \_\_\_\_ BOUND LANE, WITH ONE WAY \_\_\_\_ BOUND TRAFFIC MAINTAINED ON THE EXISTING PAVEMENT IN THE \_\_\_\_ BOUND LANE.

PHASE B SHALL CONSIST OF ALL WORK IN THE \_\_\_\_ BOUND LANE, WITH ONE WAY \_\_\_\_ BOUND TRAFFIC MAINTAINED ON THE COMPLETED PAVEMENT IN THE \_\_\_\_ BOUND LANE.

**Designer Note:** Work on a two-lane roadway where one way traffic on half of the pavement is proposed.

Delete the underlined phrase "WITHIN EACH CONSTRUCTION SECTION," if the project is not split into sections.

CUY-M25

**PHASED CONSTRUCTION (09/29/2003)**

ALL WORK IN A GIVEN PHASE, INCLUDING SUCH ITEMS AS BASE REPAIR, ASPHALT CONCRETE COURSES, ADJUSTMENT OF CASTINGS, SIDEWALKS, DRIVEWAY REPAIRS, GUARDRAIL, AND TRAFFIC SIGNS AND SIGNALS SHALL BE COMPLETED PRIOR TO BEGINNING THE NEXT PHASE, WITH THE EXCEPTION OF THE ITEM 448 SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND ANY SIGNS OR SIGNALS WHICH CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLANS.

AT THE END OF THE LAST PHASE (IN ANY CONSTRUCTION SECTION), THE 407 TACK COAT FOR INTERMEDIATE COURSE AND THE 448 SURFACE COURSE SHALL BE INSTALLED ACROSS THE ENTIRE PAVEMENT WIDTH, AND LANDSCAPING, FINAL PAVEMENT MARKINGS, AND THE BALANCE OF THE SIGNS AND SIGNALS SHALL BE INSTALLED. DURING THIS PHASE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.31, MT-95.32, MT-97.10, OR MT-97.11, AS APPROPRIATE.

**Designer Note:** Use this note where partial width construction and an asphalt overlay is being installed.

CUY-M26

**PHASED CONSTRUCTION (09/29/2003)**

ALL WORK IN A GIVEN PHASE, INCLUDING SUCH ITEMS AS BASE REPAIR, CONCRETE PAVEMENT, ADJUSTMENT OF CASTINGS, SIDEWALKS, DRIVEWAY REPAIRS, GUARDRAIL, AND TRAFFIC SIGNS AND SIGNALS SHALL BE COMPLETED PRIOR TO BEGINNING THE NEXT PHASE, WITH THE EXCEPTION OF THE FINAL PAVEMENT MARKINGS, AND ANY SIGNS OR SIGNALS WHICH CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLANS.

AT THE END OF THE LAST PHASE (IN ANY CONSTRUCTION SECTION), THE LANDSCAPING, FINAL PAVEMENT MARKINGS, AND THE BALANCE OF THE SIGNS AND SIGNALS SHALL BE INSTALLED. DURING THIS PHASE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-95.31, MT-95.32, MT-97.10, OR MT-97.11, AS APPROPRIATE.

**Designer Note:** Use this note where partial width construction and a concrete surface is being installed.

CUY-M27

**COOPERATION BETWEEN CONTRACTORS (09/29/2003)**

THE CONTRACTOR SHOULD BE AWARE THAT ANOTHER CONTRACTOR MAY BE WORKING WITHIN THE PROJECT LIMITS OR WORK LIMITS OF THIS PROJECT, OR ON AN ADJACENT SECTION. THE PROVISIONS OF 105.08 WILL APPLY TO THIS CONTRACT.

**Designer Note:** Use this note when it is known, or there is a strong possibility of another contractor or project in the immediate vicinity of the proposed work, which could influence either contractor's operations.

CUY-M28

**INSTALLATION OF WORK ZONE PAVEMENT MARKINGS AND SIGNS (11/04/2013)**

THE CONTRACTOR MAY REDUCE THE NUMBER OF THROUGH TRAFFIC LANES BY 50%, AS DIRECTED BY THE ENGINEER, IN ORDER TO REMOVE PAVEMENT MARKINGS OR TO INSTALL WORK ZONE PAVEMENT MARKINGS. HE/SHE SHALL LIMIT THE AFOREMENTIONED CLOSURE TO BETWEEN THE HOURS OF \_\_\_\_ A.M. AND \_\_\_\_ P.M., UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ALL WORK ZONE PAVEMENT MARKINGS AND SIGNS REQUIRED FOR A PARTICULAR LANE CLOSURE OR TRAFFIC PATTERN SHALL BE INSTALLED ON A SINGLE WORK DAY, AND THE CORRESPONDING TRAFFIC PATTERN, AS DETAILED ON THE PLANS, SHALL BE IMPLEMENTED IMMEDIATELY. IN ADDITION, THE REQUIREMENTS OF 614.11(G) SHALL APPLY.

**Designer Note:** Use the first paragraph of this note with discretion if the Contractor must limit his/her pavement marking operations to specific hours.

Normally the hours permitted would be 9:00 A.M. to 3:00 P.M., but on some streets these hours would not be advantageous. This paragraph is not to be used on two lane facilities. The second paragraph is appropriate for most projects.

CUY-M29

**TEMPORARY LOOP DETECTORS (11/04/2013)**

TEMPORARY LOOP DETECTORS SHALL NOT BE CUT INTO PERMANENT PAVEMENT UNLESS THEY WILL BE USED AS A PERMANENT LOOP DETECTOR AS SHOWN IN THE SIGNAL PLANS. OTHERWISE, THE CONTRACTOR SHALL USE NON-DESTRUCTIVE METHODS (SUCH AS AN INTEGRATED CAMERA AND PROCESSOR VIDEO DETECTION PRESENCE SENSOR) FOR VEHICLE DETECTION IN PERMANENT PAVEMENT AREAS.

**Designer Note:** Use this note if the contractor must install temporary traffic signal detectors in areas of permanent pavement that is not being replaced. It is typically used when one-lane, two way traffic is being maintained by use of actuated traffic signals.

CUY-M30

**TEMPORARY MAINTENANCE OF EXISTING TRAFFIC SIGNALS (01/04/1999)**

INCIDENTAL TO THE REQUIREMENTS FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH 614.03, EXISTING TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTION(S) SHALL BE TEMPORARILY MAINTAINED UNTIL THE NEW TRAFFIC SIGNAL INSTALLATION IS IN OPERATION, OR UNTIL THE PROJECT IS COMPLETE AND THE EXISTING OPERATION CAN BE RESTORED:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THE EXISTING SIGNAL HEADS (OR ADDITIONAL TRAFFIC SIGNAL HEADS SUPPLIED BY THE CONTRACTOR) SHALL BE POSITIONED SO AS TO PROVIDE A MINIMUM OF TWO TRAFFIC SIGNAL HEADS OVER THE PORTION OF THE ROADWAY USED BY EACH DIRECTION OF TRAFFIC, AS SHOWN ON THE PLANS, AND THE OPERATION SHALL BE MODIFIED AS SHOWN IN THE PLANS. THE NUMBER, LOCATION, VISIBILITY, AND HEIGHT OF ALL TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD).

ANY COSTS FOR THE TEMPORARY MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE INCLUDED IN THE LUMP SUM COST BID FOR ITEM 614 - MAINTAINING TRAFFIC.

**Designer Note:** Use this note when existing signals are to be maintained.

**ITEM 614 - MAINTAINING TRAFFIC, MISC:**  
**MAINTAINING EXISTING TRAFFIC SIGNALS (11/04/2013)**

INCIDENTAL TO THE REQUIREMENTS FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH 614.03, THE EXISTING TRAFFIC SIGNALS AT THE LOCATIONS LISTED IN THIS NOTE SHALL BE TEMPORARILY MAINTAINED AS NOTED BELOW FOR ALL CONSTRUCTION PHASES. IT IS THE INTENT UNDER THIS ITEM OF WORK TO MODIFY ONLY THOSE SIGNALS THAT ARE NECESSARY TO IMPROVE TRAFFIC FLOW FOR THE VARIOUS PHASES OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS TO THE TRAFFIC SIGNALS AS DIRECTED BY THE ENGINEER. THESE MODIFICATIONS SHALL INCLUDE THE FOLLOWING:

1. CHANGING OF SIGNAL PHASING
2. CHANGING OF SIGNAL TIMING
3. COVERING SIGNAL HEADS DUE TO PHASING CHANGES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE MODIFICATIONS FROM THE TIME HIS/HER OPERATIONS FIRST DISTURB THE TRAFFIC PATTERNS UNTIL THE TRAFFIC PATTERNS HAVE BEEN RETURNED TO THEIR PRE-CONSTRUCTION CONDITIONS AND THE WORK HAS BEEN ACCEPTED. IT IS THE INTENT OF THIS PLAN TO MODIFY THE SIGNALS ONLY BY CHANGING EXISTING SIGNAL TIMING, CHANGING EXISTING SIGNAL PHASING AND/OR COVERING EXISTING SIGNAL HEADS DUE TO PHASING CHANGES. ANY ADDITIONAL CONTROLLER HARDWARE NECESSARY TO PERFORM SIGNAL TIMING AND/OR PHASING CHANGES WILL BE THE RESPONSIBILITY OF THE CITY.

ANY COSTS FOR THE INSTALLATION OF ANY TEMPORARY SIGNAL HEADS AND/OR THE RELOCATION OF EXISTING SIGNAL HEADS NECESSARY TO PROVIDE A MINIMUM OF TWO TRAFFIC SIGNAL HEADS OVER THE PORTION OF THE ROADWAY USED BY EACH DIRECTION OF TRAFFIC, AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE LUMP SUM COST BID FOR ITEM 614 - MAINTAINING TRAFFIC, AND NOT AS PART OF THIS ITEM OF WORK.

IF THE ENGINEER DETERMINES THAT A SIGNAL REQUIRES A TIMING AND/OR PHASING CHANGE, THE CONTRACTOR SHALL CONTACT THE CITY OF \_\_\_\_\_ DEPARTMENT AT (216) \_\_\_\_\_ TO ARRANGE FOR THE CHANGE(S). THE CITY SHALL BE GIVEN AT LEAST FIVE WORKING DAYS NOTICE PRIOR TO IMPLEMENTATION OF ANY PHASING CHANGES. THE CITY WILL PERFORM THE WORK WITH ITS OWN FORCES (OR WITH ITS OWN CONTRACTOR) AT THE CONTRACTOR'S EXPENSE.

THE NORMAL MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE THE RESPONSIBILITY OF THE CITY. OUTAGES WHICH OCCUR DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF POLES, SIGNAL HEADS, AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED DUE TO THE CONTRACTOR'S NEGLIGENCE, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHOUT UNDUE DELAY, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENTS AS SOON THEREAFTER AS POSSIBLE, AT NO ADDITIONAL COST TO THE COUNTY.

ONCE THE PROJECT (OR A PHASE) IS COMPLETE, AND THE ROAD REOPENED TO FULL WIDTH, THE CONTRACTOR SHALL ARRANGE WITH THE CITY TO REVERT ALL ADJUSTED SIGNAL PHASING AND TIMING BACK TO THE PRE-CONSTRUCTION SETTINGS.

ANY TIME THE CONTRACTOR MUST ENTER A SIGNAL CONTROLLER TO ADJUST SIGNAL TIMING AND/OR SIGNAL PHASING, AND/OR COVER A SIGNAL HEAD OR HEADS AT AN INTERSECTION DUE TO A PHASING CHANGE, SHALL CONSTITUTE PAYMENT ON AN EACH BASIS UNDER THIS ITEM OF WORK. ALL WORK NECESSARY TO IMPLEMENT A PHASING CHANGE, SUCH AS TIMING AND PHASING CHANGES IN THE CONTROLLER, SIGNAL HEAD ADJUSTMENTS, COVERING SIGNAL HEADS, ETC., SHOULD BE DONE CONCURRENTLY, AND WILL BE CONSIDERED AS ONE OCCURRENCE FOR THE PURPOSES OF PAYMENT UNDER THIS ITEM. HOWEVER, MULTIPLE ENTRIES INTO THE SAME CONTROLLER SHALL BE PAID FOR EACH TIME THE CONTROLLER IS SUBSEQUENTLY ENTERED AT THE DIRECTION OF THE ENGINEER TO ADJUST TIMING AND OR PHASING. ALL COSTS INCLUDING MATERIALS, LABOR, EQUIPMENT, ETC., RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE PAID FOR AT THE CONTRACT PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC, MISC.: - MAINTAINING EXISTING TRAFFIC SIGNALS.

AN ESTIMATED QUANTITY OF \_\_\_\_\_ EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM OF WORK AT THE FOLLOWING LOCATIONS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Designer Note:** Use this note along with note CUY-M30, when the contractor must arrange with municipalities to have the municipality make changes to traffic signal controllers necessary for maintenance of traffic during construction.

CUY-M32  
**WORK ZONE MARKING SIGNS (05/28/2010)**

WORK ZONE MARKING SIGNS (R4-1, R4-2, W8-H12, W8-H12a, AND/OR W8-11) SHOWN ON SHEETS \_\_\_\_\_ SHALL BE INSTALLED AT THE LOCATION SHOWN, AS DESCRIBED IN SECTION 614.04.

**THESE SIGNS SHALL BE ERECTED AND VISIBLE TO TRAFFIC ONLY WHEN, AND FOR THE DURATION OF THE PERIOD WHEN THE APPROPRIATE PAVEMENT MARKINGS ARE NOT PRESENT. THEY SHALL BE PROMPTLY COVERED OR REMOVED AFTER THE FINAL PAVEMENT MARKINGS HAVE BEEN INSTALLED.**

NO SEPARATE PAYMENT FOR THESE SIGNS WILL BE MADE. THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING THESE SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614-MAINTAINING TRAFFIC.

**Designer Note:** This note is to be used when class II work zone markings are specified on the plans. If separate payment is to be made, delete the last paragraph.