

# MAINTENANCE OF TRAFFIC GENERAL NOTES

## MAINTENANCE OF TRAFFIC

### ITEM 614 - MAINTENANCE OF TRAFFIC

THE DEMOLITION AND REHABILITATION OF THE TWIN STRUCTURES ON S.R. 2 OVER S.R. 615 SHALL BE DONE IN TWO (2) CONSTRUCTION PHASES WHILE MAINTAINING TWO (2) LANES OF TRAFFIC IN EACH DIRECTION, EXCEPT AS OTHERWISE SPECIFICALLY STIPULATED HEREIN OR PERMITTED BY THE ENGINEER, EITHER ON A PORTION OF THE EXISTING OR PROPOSED STRUCTURES AND APPROACHES OR TEMPORARY PAVEMENTS ALL AS DESCRIBED BELOW IN THE SEQUENCE OF CONSTRUCTION.

DEMOLITION OF THE EXISTING STRUCTURES SHALL PROCEED ONLY OVER THOSE LANES OF S.R. 615 WHICH ARE PROPERLY CLOSED TO TRAFFIC, AS SHOWN ON SHEET NO. 13.

A SAFETY NET OR PLATFORM SHALL BE REQUIRED TO PROTECT THE WORKERS AND TRAVELING PUBLIC DURING THE CONSTRUCTION OF THE NEW STRUCTURES OVER S.R. 615. THE CONTRACTOR SHALL PROVIDE A SAFETY NET OR PLATFORM OF SUITABLE STRENGTH ON THE UNDERSIDE OF THE NEW DECK WHILE MAINTAINING AT A MINIMUM THE PRECONSTRUCTION VERTICAL CLEARANCES OVER S.R. 615. THE DESIGN OF THE SAFETY NET OR PLATFORM SHALL CONFORM WITH OSHA REQUIREMENTS AND BE APPROVED BY THE ENGINEER. IT SHALL REMAIN IN PLACE UNTIL ALL WORK OVER S.R. 615 HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC REQUIREMENTS FOR S.R. 615 DURING THE DEMOLITION AND CONSTRUCTION OF THE S.R. 2 STRUCTURES ARE DESCRIBED BELOW IN THE SEQUENCE OF CONSTRUCTION.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, LATEST REVISION, AND SHALL BE PROVIDED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR PER THE MANUAL, EXCEPT AS OTHERWISE NOTED HEREIN.

THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE POLICE, FIRE, SERVICE, AND ENGINEERING DEPARTMENTS OF THE CITY OF MENTOR, AT LEAST THREE WORKING DAYS BEFORE RESTRICTING OR CHANGING THE TRAFFIC PATTERN OF S.R. 615 IN ANY WAY.

EXISTING SIGNS LOCATED WITHIN THE WORK AREA, WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. SIGNS SHALL BE MAINTAINED AT ALL ITEMS WHILE TRAFFIC IS MAINTAINED. THE COST OF RELOCATION AND SUBSEQUENT REMOVAL, IF REQUIRED, OF SIGNS WILL BE INCLUDED IN THE PRICE BID FOR ITEM 614 "MAINTAINING TRAFFIC".

THE CONTRACTOR SHALL, PRIOR TO PLACING TEMPORARY MARKINGS, REMOVE ALL CONFLICTING EXISTING MARKINGS VISIBLE TO THE TRAVELING PUBLIC IN ACCORDANCE WITH 641.10. THE COST FOR REMOVAL OF CONFLICTING MARKINGS SHALL BE PAID FOR UNDER ITEM 642, "REMOVAL OF PAVEMENT MARKINGS".

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL, OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC CONTROL DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 "MAINTAINING TRAFFIC".

PAYMENT FOR ALL LABOR AND EQUIPMENT REQUIRED FOR THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF BARRICADES, FLASHING ARROWS, SIGNS AND SIGN SUPPORTS AND INCIDENTALS RELATED TO THE MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 "MAINTAINING TRAFFIC", EXCEPT SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY STRIPING ITEMS, AND, REMOVAL OF EXISTING PAVEMENT MARKINGS, WORK ZONE MARKING SIGNS SPECIFICALLY PROVIDED FOR USE AS DIRECTED BY THE ENGINEER, TEMPORARY PAVEMENT CLASS "A", TEMPORARY ROADS, PORTABLE CONCRETE BARRIERS, BARRIER REFLECTORS CLASS "B", OBJECT MARKERS, AND LAW ENFORCEMENT OFFICER WITH PATROL CAR.

### SEQUENCE OF CONSTRUCTION FOR S.R. 2

#### PHASE I

CONSTRUCTION SHALL CONSIST OF THE REMOVAL AND RECONSTRUCTION OF THE INTERIOR PORTION OF THE STRUCTURES OVER S.R. 615 INCLUDING PERMANENT AND TEMPORARY CLASS A APPROACH PAVEMENTS. FOR DETAILS OF THE PROPOSED WORK AREAS AND MAINTENANCE OF TRAFFIC REQUIREMENTS SEE SHEET NO. 11.

BEFORE IMPLEMENTING ANY PHASE I MAINTENANCE OF TRAFFIC REQUIREMENTS, THE CONTRACTOR SHALL REPLACE THE EXISTING OUTSIDE SHOULDERS ALONG S.R. 2 BETWEEN THE RAMP NOSES, WITH TEMPORARY PAVEMENT, CLASS "A" 11'-0" WIDE. THIS CONSTRUCTION SHALL BE PERFORMED BETWEEN 8:00 P.M. AND 6:00 A.M., DURING WHICH TIME ALL WORK SHALL BE COMPLETED AND THE SHOULDERS MADE AVAILABLE FOR USE BY THE MOTORING PUBLIC. MAINTENANCE OF TRAFFIC FOR THIS WORK SHALL BE AS PER STANDARD DRAWING MT-95.30.

#### PHASE II

CONSTRUCTION SHALL CONSIST OF THE REMOVAL AND RECONSTRUCTION OF THE EXTERIOR PORTIONS OF THE STRUCTURES OVER S.R. 615, INCLUDING THE APPROACH PAVEMENTS. FOR DETAILS OF THE PROPOSED WORK AREAS AND MAINTENANCE OF TRAFFIC REQUIREMENTS SEE SHEET NO. 12.

### SEQUENCE OF CONSTRUCTION FOR S.R. 615

#### PHASE I

- A. DEMOLITION OF THE INTERIOR PORTION OF S.R. 2 REINFORCED CONCRETE DECK SLAB.

THE CONTRACTOR SHALL PERFORM THIS WORK BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M., CLOSING ALL LANES OF TRAFFIC IN A SINGLE DIRECTION WHILE MAINTAINING TWO-WAY TRAFFIC ON THE OPPOSING DIRECTIONAL ROADWAY. THE CONTRACTOR SHALL USE A LAW ENFORCEMENT OFFICER WITH PATROL CAR TO ACCOMPLISH THIS TRAFFIC CONTROL REQUIREMENT. FOR SPECIFICS SEE SHEET NO. 13.

- B. DEMOLITION OF A PORTION OF THE SHOULDER PIER CAPS AND COLUMNS.

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING LANES OF TRAFFIC WHILE PERFORMING THIS WORK EXCEPT IF HE/SHE OPTS TO PERFORM IT IN ACCORDANCE WITH THE RESTRICTIONS STIPULATED IN A. ABOVE.

- C. DEMOLITION AND CONSTRUCTION OF A PORTION OF THE MEDIAN PIER CAPS AND COLUMNS.

THE CONTRACTOR SHALL MAINTAIN TWO (2) LANES OF TRAFFIC IN EACH DIRECTION WHILE PERFORMING THIS WORK. FOR SPECIFIC REQUIREMENTS SEE SHEET NO. 13.

- D. CONSTRUCTION OF A PORTION OF THE S.R. 2 STRUCTURAL STEEL SUPERSTRUCTURE.

THE CONTRACTOR SHALL PERFORM THIS WORK IN ACCORDANCE WITH THE RESTRICTIONS STIPULATED IN A. ABOVE.

- E. CONSTRUCTION OF A PORTION OF THE S.R. 2 REINFORCED CONCRETE DECK.

PRIOR TO PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL PROVIDE THE NECESSARY PROTECTIVE DEVICES REQUIRED FOR THE SAFETY OF THE WORKERS AND THE TRAVELING PUBLIC AS NOTED BEFORE.

#### PHASE II

MAINTENANCE OF TRAFFIC REQUIREMENTS FOR WORK UNDER THIS PHASE SHALL CONFORM TO THOSE STIPULATED UNDER THE CORRESPONDING S.R. 615 PHASE I TASK, EXCEPT SHALL APPLY TO THE DEMOLITION AND REPLACEMENT OF THE EXTERIOR PORTION OF THE BRIDGES.

### CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC, WHERE PRACTICAL. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA, WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PARKED AT LEAST FIFTY (50) FEET FROM THE EDGE OF THE PAVEMENT AND/OR SIX (6) FEET BEHIND GUARDRAIL OR BARRIER. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA.

### FLASHING ARROW

FLASHING ARROWS WITHIN 500 FEET OF ANY RESIDENCE SHALL OPERATE ELECTRICALLY, BY BATTERY, OR SHALL BE SOLAR AND BATTERY POWERED.

### MAINTENANCE OF TRAFFIC STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SECTION 621, OR SUPPLEMENTAL SPECIFICATIONS 806, 847, 906 OR 947 ON THE STANDARD CONSTRUCTION DRAWINGS OR ELSEWHERE IN THESE PLANS SHALL BE CONSIDERED TO READ AS REFERENCES TO THE APPROPRIATE PORTIONS OF SECTION 641, 642, 643, 644, 645 AND 740.

### ITEM 615 - TEMPORARY ROADS

ITEM 615 - TEMPORARY ROADS LUMP SUM SHALL INCLUDE ALL COSTS FOR TEMPORARY DRAINAGE EXCAVATION AND/OR EMBANKMENT FOR THE TEMPORARY PAVEMENT CLASS A REQUIRED DURING CONSTRUCTION OF THIS PROJECT. THE LOCATIONS AND CONFIGURATION SHALL BE AS DETAILED ON SHEET NOS. 11 AND 12.

### ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR-DOWN PERIODS, SUBSTANTIAL SHIFT OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

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

DURING A TRAFFIC SIGNAL INSTALLATION.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE L.E.O.'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH: MENTOR POLICE DEPARTMENT, 8500 CIVIC CENTER BOULEVARD, MENTOR, OHIO, PHONE 255-8856.

LAW ENFORCEMENT OFFICERS 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. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 250 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOWUP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE L.E.O.'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 "MAINTENANCE OF TRAFFIC".

### ITEM 614 - TEMPORARY WORK ZONE MARKINGS

FOR ESTIMATED QUANTITIES CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF THE STANDARD DRAWING MT-99.10, SEE SHEET NO. 46.

### ITEM 622 - PORTABLE CONCRETE BARRIER

IT IS ANTICIPATED THAT THE SAME BARRIER WILL BE USED IN VARIOUS PHASES OF CONSTRUCTION. MOVEMENT OF THE CONCRETE BARRIER BETWEEN PHASES SHALL BE ACCOMPLISHED IN ONE WORKING DAY. FLAGGERS SHALL BE UTILIZED FOR PROTECTION OF VEHICULAR TRAFFIC UNTIL MOVEMENT OF THE BARRIER IS COMPLETE.

CALCULATED  
J.J.P.  
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MAINTENANCE OF TRAFFIC GENERAL NOTES

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