

MAINTENANCE OF TRAFFIC GENERAL NOTES

CALCULATED
A.E.P.
CHECKED
L.M.H.

ITEM 614. MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, LIGHTING, FLAGGERS, TEMPORARY GUARDRAIL, AND OTHER SUCH TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID INJURY TO PERSONS AND PROPERTY USING THE ROADWAY DURING CONSTRUCTION.

PAYMENT FOR LABOR AND EQUIPMENT REQUIRED FOR THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF TEMPORARY DRIVEWAYS, BARRICADES, LIGHTS, TEMPORARY SIGNALS, SIGNS AND SIGN SUPPORTS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

THE CONTRACTOR SHALL CONSTRUCT ANY STORM SEWER INSTALLATION IN SUCH A FASHION AS TO MAINTAIN TWO-WAY TRAFFIC ON ONE THREE (3M) METER MINIMUM LANE ON THE EXISTING PAVEMENT USING FLAGGERS AS REQUIRED DURING WORKING HOURS. TRENCHES EXCAVATED FOR THE SEWERS SHALL BE BACKFILLED AND THE ROADWAY OPENED FOR TRAFFIC AT THE END OF EACH WORKING DAY EXCEPT FOR STORM SEWERS LOCATED WITHIN ESTABLISHED TEMPORARY WORK AREAS.

THE CONTRACTOR SHALL SCHEDULE FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SO THAT THE NEW PAVEMENT PATCH CAN BE OPENED TO TRAFFIC AT THE END OF THE WORKING DAY EXCEPT FOR AREAS LOCATED WITHIN ESTABLISHED TEMPORARY WORK AREAS. ANY MATERIALS NEEDED TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THIS ITEM.

THE CONTRACTOR SHALL PERFORM ALL OPERATIONS ASSOCIATED WITH PAVEMENT REMOVAL, WIDENING AND CURB REPLACEMENT WITHIN THE PROJECT PHASE LIMITS ON ONE SIDE OF THE ROADWAY AT A TIME AND SHALL NOT COMMENCE PAVEMENT WORK ON THE OPPOSITE SIDE UNTIL HE HAS COMPLETED ALL PAVEMENT WORK ON THE INITIAL SIDE.

FOR ALL OPERATIONS WHICH REQUIRE A LANE CLOSURE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS AND THE ACCOMPANYING MAINTENANCE OF TRAFFIC PLANS.

DURING THE RESURFACING OPERATIONS, THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE SPECIFICATION REQUIREMENTS FOR PROTECTION OF COMPLETED COURSE AS PER THE MAINTENANCE OF TRAFFIC DETAILS GIVEN BY THE MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS.

THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL CONSTRUCTION TRAFFIC CONTROL SIGNS, FLAGS, FLAGGERS, WATCHMEN, LIGHTING, BARRICADES, SIGN SUPPORTS, CONES AND INCIDENTALS IN CONFORMANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."

EXISTING SIGNS LOCATED WITHIN THE ROAD WORK AREAS WHICH ARE NECESSARY FOR INTERIM OR PERMANENT TRAFFIC CONTROL SHALL BE REMOVED AND RE-ERECTED IN LOCATIONS AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NEW WARNING AND INFORMATION SIGNS NECESSARY FOR MAINTAINING TRAFFIC. THE CONTRACTOR SHALL DETERMINE WHAT SIGNS ARE NEEDED AND ADVISE THE ENGINEER TWO (2) WEEKS IN ADVANCE OF HIS DETAILED PLANS.

SEE THE TRAFFIC MAINTENANCE DETAILS FOR THE MINIMUM SIGNAGE REQUIRED.

TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION, AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER. WHERE OPERATIONS ARE PERFORMED IN STAGES, THERE SHALL BE IN PLACE ONLY THOSE DEVICES THAT APPLY TO THE CONDITION PRESENT DURING STAGE IN PROGRESS. ALL SIGNS WITH MESSAGES WHICH DO NOT APPLY DURING A CERTAIN PERIOD SHALL BE COVERED OR SET ASIDE OUT OF THE VIEW OF TRAFFIC.

CONTRACTOR SHALL BE REQUIRED TO PROVIDE SUFFICIENT CREWS TO IMPLEMENT ALL OR A SUB-PHASE OF THE TRAFFIC CONTROL IN THE MAINTENANCE OF TRAFFIC PLANS WITHIN THE SAME WORK DAY. THIS WILL PREVENT ANY CONFUSION BETWEEN THE CONSTRUCTION PHASE TRAFFIC PATTERN AND THE EXISTING TRAFFIC PATTERN. THE MAINTENANCE OF TRAFFIC PLANS CAN BE SUB-PHASED BY CONCENTRATING ON THE DIRECTION OR A LENGTH WITHIN THAT DIRECTION. HOWEVER, IN EACH SUB-PHASE THE MAINTENANCE OF TRAFFIC PLAN SHALL BE COMPLETELY IMPLEMENTED WITHIN THE SAME WORK DAY.

FOR ANY OPERATION NOT SPECIFICALLY MENTIONED IN THESE PLANS, THE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

ITEM 614. MAINTAINING TRAFFIC

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 AND TEMPORARY PAVEMENT, ON VINE STREET, S.R. 640.

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 ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEMS 614-BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN

THIS ITEM SHALL BE USED TO REPAIR HOLES IN ROADWAY SURFACE AND BERMS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MONITOR THE ROADWAY TO DETERMINE WHEN THE HOLES SHALL BE PATCHED. THE CONTRACTOR MUST NOTIFY THE ENGINEER FOR HIS/HER APPROVAL.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO MOTORIST VEHICLES IF THE HOLES ARE NOT FILLED IN A REASONABLE AMOUNT OF TIME.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROADWAY AND BERMS (IN THE DIRECTION WORK IS BEING PERFORMED) THE FIRST DAY OF WORK UNTIL CONSTRUCTION IS COMPLETE. THIS INCLUDES PERIODS WHEN WORK IS SUSPENDED.

THE PROCEDURE FOR PATCHING A HOLE IS:

REMOVE ALL LOOSE AND DISINTEGRATED ASPHALT OR CONCRETE TO AN EXTENT TO EXPOSE SOUND CONCRETE OR ASPHALT. THE PERIMETER OF ALL REMOVAL AREAS SHALL BE VERTICAL.

THE SURFACE TO BE PATCHED MUST BE CLEANED AND DRIED.

THE ENTIRE SURFACE SHALL BE TACK COATED, INCLUDING THE VERTICAL FACES.

ASPHALT CONCRETE SHALL BE IN ACCORDANCE TO ITEM 404 OR 402 AS DETERMINED BY THE ENGINEER. IT SHALL BE PLACE IN 50 mm LIFTS AND COMPACTED TO THE LEVEL OF THE WEARING SURFACE.

DURING WINTER MONTHS ONLY WHEN ASPHALT IS NOT AVAILABLE OR AT THE DIRECTION OF THE ENGINEER COLD MIX MAY BE USED. COMPACTION EQUIPMENT MUST BE APPROVED BY THE ENGINEER.

ALL TRAFFIC CONTROL NEEDED FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THIS ITEM OF WORK.

ITEM 614 - BITUMINOUS CONCRETE - 250 CUBIC METERS
FOR MAINTAINING TRAFFIC, AS PER PLAN

TEMPORARY ROAD EARTHWORK

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

TEMPORARY EARTHWORK EXCAVATION - 1,660 CUBIC METERS

ITEM 615 - TEMPORARY ROAD, AS PER PLAN

THE PRICE BID FOR ITEM 615, TEMPORARY ROAD, AS PER PLAN SHALL INCLUDE ALL MODIFICATION NECESSARY TO DRAIN THE TEMPORARY PAVEMENT SUCH THAT ALL TEMPORARY DRAINAGE SHALL BE AS GOOD AS OR BETTER THAN THE EXISTING DRAINAGE SYSTEM PRIOR TO CONSTRUCTION.

ITEM 615 - TEMPORARY PAVEMENT, CLASS A

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 615 - TEMPORARY PAVEMENT, CLASS A 2990 SQ. M.

ITEM 608 - TEMPORARY BITUMINOUS WALK

THE TEMPORARY WALK SHALL CONSIST OF 400mm, 1.2 METERS WIDE ASPHALT PAVEMENT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 608 - TEMPORARY BITUMINOUS WALK 1200 SQ. M.

PERMANENT PAVEMENT MARKINGS

AFTER PLACING THE SURFACE COURSE, THE CONTRACTOR MAY PLACE PERMANENT PAVEMENT MARKINGS AT LOCATIONS SHOWN IN THE TYPICALS AND THE TRAFFIC CONTROL SHEETS INSTEAD OF PLACING TEMPORARY PAVEMENT MARKINGS, WHICH SHALL BE NON-PERFORMED AT THESE LOCATIONS.

ITEM SPECIAL - REPLACEMENT SIGN

FLAT SHEET SIGNS 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 TO THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED BUT GOOD CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER SQUARE FEET FOR ITEM SPECIAL, 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 10 SQUARE METERS HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM SPECIAL - REPLACEMENT DRUM

DRUMS 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 DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM SPECIAL, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 15 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

PROVIDING CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES

TWO WEEKS PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE SCHEDULE OF CONSTRUCTION OPERATIONS ALONG WITH PLANS SHOWING TRAFFIC CONTROL FOR EACH PHASE OF CONSTRUCTION. INCLUDED SHALL BE DETAILS OF THE PROPOSED METHODS TO MAINTAIN SAFE AND CONTINUOUS ACCESS FOR PASSENGER VEHICLES, TRUCKS AND SAFETY EQUIPMENT TO ALL ADJOINING PROPERTIES AND INTERSECTING STREETS. THESE PLANS SHALL INCLUDE ALL TEMPORARY MATERIALS NECESSARY TO PROVIDE SAFE, ADEQUATE DRIVE SURFACES TO ALL ADJOINING PROPERTIES. THE COST FOR ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO PROVIDE CONTINUOUS ACCESS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC. PLANS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO COMMENCING ANY WORK.

SHOULD THE ENGINEER AT ANY TIME PRIOR TO OR DURING CONSTRUCTION, DEEM ANY PART OF THE CONTRACTORS PLANS FOR SAFE AND CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES INADEQUATE, ADDITIONAL MATERIALS, CLOSURES AND/OR DIVERSIONS SHALL BE REQUIRED AT NO ADDITIONAL COST TO THE STATE.

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

410, TRAFFIC COMPACTED SURFACE, TYPE A OR B 235 CUBIC METERS

COMMERCIAL DRIVEWAY CONSTRUCTION

FOR COMMERCIAL PROPERTIES WITH TWO DRIVEWAYS WHERE INGRESS AND EGRESS IS AVAILABLE FOR BOTH OF THE DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES TO ONE OF THE DRIVEWAYS WHILE THE OTHER DRIVEWAY IS RECONSTRUCTED.

FOR COMMERCIAL PROPERTIES WITH ONE DRIVEWAY, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES BY USING PART WIDTH CONSTRUCTION.

FOR COMMERCIAL PROPERTIES WITH TWO DRIVEWAYS WHERE ONE OF THE DRIVES IS USED EXCLUSIVELY AS AN ENTRANCE AND THE OTHER IS USED EXCLUSIVELY AS AN EXIT, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES FOR BOTH OF THE DRIVEWAYS BY USING PART WIDTH CONSTRUCTION.

FOR GAS STATION PROPERTIES WITH WORKING FUEL ISLANDS, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES BY USING PART WIDTH CONSTRUCTION FOR THE TWO DRIVEWAYS ADJACENT TO THE FUEL ISLANDS.

WHERE PART WIDTH DRIVEWAY CONSTRUCTION IS REQUIRED AS STATED ABOVE, THE CONTRACTOR SHALL USE TYPE MS CONCRETE IN ACCORDANCE WITH ITEM 899 TO HELP EXPEDITE THE DRIVEWAY WORK. THE ADDITIONAL COST FOR THE TYPE MS CONCRETE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

CONSTRUCTION ADJACENT TO RESIDENTIAL DRIVES

THE CONTRACTOR SHALL PROVIDE SUFFICIENT ALTERNATE PARKING SPACES TO ANY PROPERTY OWNER WHO IS DENIED VEHICULAR ACCESS TO HIS/HER PROPERTY. THE ALTERNATE PARKING SPACES SHALL BE LOCATED A MAXIMUM OF 152.44 METERS FROM THE PROPERTY OWNERS EXISTING DRIVEWAY.

OVERNIGHT TRENCH CLOSING

NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT WHEN APPROVED BY THE PROJECT ENGINEER AND ONLY FOR A SHORT LENGTH (6.1 M OR LESS) AT THE END OF THE TRENCH. THE CONTRACTOR SHALL FENCE OFF THE OPEN PORTION OF THE TRENCH USING EITHER PLASTIC CONSTRUCTION FENCE OR SNOW FENCE. THE TRENCH SHALL BE LEFT IN A SAFE CONDITION ACCEPTABLE TO THE PROJECT ENGINEER. ALL COSTS ASSOCIATED WITH PROTECTING THE OPEN TRENCH INCLUDING THE PLASTIC CONSTRUCTION FENCE OR SNOW FENCE SHALL BE INCLUDED UNDER ITEM 614 - MAINTAINING TRAFFIC.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

616, WATER
616, CALCIUM CHLORIDE

200 CUBIC METER
5 METRIC TON

MAINTENANCE OF TRAFFIC GENERAL NOTES

LAK-640-2.865 (1.78)