

**ITEM 614 - MAINTAINING TRAFFIC :**

- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE MANUAL, AND SHALL BE FURNISHED, ERECTED, MAINTAINED, RELOCATED AND REMOVED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, SUCH AS BARRICADES, LIGHTING, FLAGGERS, PLASTIC DRUMS, FLASHING ARROW PANELS AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ODOT ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION. WHENEVER THE ENGINEER DEEMS IT NECESSARY, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH 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 PHASES, THERE SHALL BE IN PLACE ONLY THOSE DEVICES THAT APPLY TO THE CONDITION PRESENT DURING THE PHASE-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.
- CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 641.10 OF THE OHIO SPECIFICATIONS BEFORE ANY SECTION OF ROADWAY IS MADE AVAILABLE TO USE BY TRAFFIC. ALL PERMANENT AND TEMPORARY PAVEMENT MARKINGS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGED OR FADED PAVEMENT MARKINGS SHALL BE CORRECTED WITHIN EIGHT HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE PROBLEM. IF WEATHER IS NOT CONDUCTIVE TO PAVEMENT MARKING INSTALLATION THEN REPAIRS SHALL BE MADE ON THE FIRST WEATHER PERMISSIVE DAY AFTER NOTIFICATION.
- ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 APPLICABLE SECTIONS OF THE SPECIFICATIONS AS WELL AS THE MANUAL. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS, UNLESS OTHERWISE SEPARATELY ITEMIZED IN THE PLANS.

**PROVIDING CONTINUOUS ACCESS TO RESIDENCES & BUSINESSES:**

- THE CONTRACTOR SHALL PROVIDE DETAILS OF THE PROPOSED METHODS TO MAINTAIN SAFE AND CONTINUOUS ACCESS FOR 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 COST OF OTHER BID ITEMS. 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 CONTRACTOR'S 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 COUNTY.

**NOTIFICATION OF PROPERTY OWNERS:**

- THE CONTRACTOR SHALL NOTIFY ALL RESIDENCES AND BUSINESSES ALONG THE PROJECT ROUTE IN WRITING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON THE PROJECT. SUCH NOTICE SHALL INCLUDE, AT A MINIMUM, A BRIEF PROJECT DESCRIPTION, TENTATIVE CONSTRUCTION SCHEDULE, LIMITS OF CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER, AS WELL AS A CONTACT PERSON'S NAME AND EMERGENCY PHONE NUMBER WHERE HE COULD BE REACHED DURING NON-WORK HOURS. THE NOTICE SHALL BE REVIEWED AND APPROVED BY LAKE COUNTY AND MADISON TOWNSHIP PRIOR TO BEING DISTRIBUTED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO THE INDIVIDUAL PROPERTY OWNERS PRIOR TO STARTING ANY WORK ON OR AFFECTING THE INDIVIDUAL'S PROPERTY. ALL COSTS ASSOCIATED WITH THE ABOVE SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS.

**FAILURE TO COMPLY:**

- FOR ANY FAILURE TO COMPLY WITH PROVISIONS FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE MANUAL, THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL BE CONSIDERED IN A CONDITION UNACCEPTABLE FOR THE SAFETY AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY IN THE VICINITY OF THE WORKING AREA IN A CONDITION ACCEPTABLE FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

**NOTIFICATION:**

- THE CITY OF WILLOUGHBY POLICE, FIRE, PUBLIC SERVICE DEPARTMENTS SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE ACTUAL START OF CONSTRUCTION.

CITY OF WILLOUGHBY POLICE DEPARTMENT  
JACK BECKWITH, CHIEF OF POLICE  
(440)-953-4229

CITY OF WILLOUGHBY FIRE DEPARTMENT  
TODD UNGAR, FIRE CHIEF  
(440)-953-4343

CITY OF WILLOUGHBY ADMINISTRATOR  
LEE BOCK, SERVICE DIRECTOR  
(440)-953-4111

**MATERIALS FOR MAINTAINING TRAFFIC:**

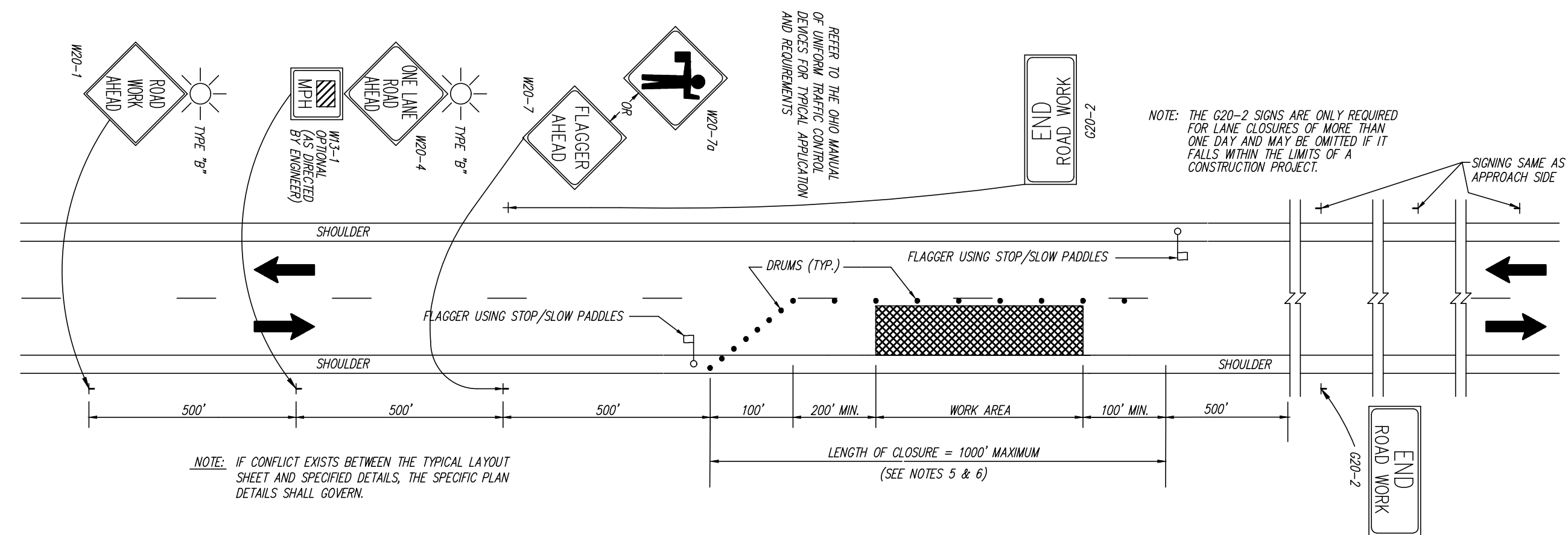
- SIGN DIMENSION AND SPECIFICATIONS, INCLUDING LETTER SIZES, SHALL BE AS PROVIDED IN THE MANUAL OR SIGN DESIGN DRAWINGS PROVIDED IN THESE PLANS. THE SIGNS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER PRIOR TO THE START OF THE PROJECT. ALL COST FOR SUPPLY, INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS.
- SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZES AND HEIGHT TO SUPPORT THE SIGNS AT THE HEIGHT INDICATED IN THE MANUAL. SUPPORTS SHALL ALSO BE ADEQUATE IN MASS AND STABILITY TO PREVENT SIGNS FROM BEING BLOWN OVER BY WIND OR VEHICULAR-GENERATED AIR TURBULENCE. ALL COSTS FOR SUPPLY, INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS.
- ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B SHALL BE PROVIDED FOR MAINTAINING DRIVEWAY ACCESS TO RESIDENCES AND BUSINESSES AND SIDE STREET ACCESS. ALL COSTS FOR SUPPLY, INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL THIS MATERIAL SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS.

**TRAFFIC SIGNAL MODIFICATIONS:**

- THE CONTRACTOR BE RESPONSIBLE TO PROVIDE TRAFFIC SIGNAL MODIFICATIONS NECESSARY FOR ASSIGNING RIGHT OF WAY AT THE EXISTING SIGNALIZED INTERSECTIONS WHICH ALIGNS WITH THE MOT PLAN IMPLEMENTED BY THE CONTRACTOR. IF MODIFICATIONS ARE REQUIRED, THE CONTRACTOR SHALL SUBMIT A PLAN IN ADVANCE FOR APPROVAL BY THE ENGINEER. THE PLAN SHALL PROVIDE ENOUGH INFORMATION IN ORDER TO MAKE AN INFORMED DECISION. THE CONTRACTOR SHALL HAVE CERTIFIED ELECTRICAL/SIGNAL ELECTRICIANS PERFORM THE REQUIRED WORK.

**SEQUENCE OF CONSTRUCTION:**

- THE CONTRACTOR BE RESPONSIBLE TO PROVIDE TRAFFIC SIGNAL MODIFICATIONS AND LANE CLOSURES NECESSARY FOR ASSIGNING RIGHT OF WAY. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE ENGINEER THE SEQUENCE OF CONSTRUCTION AND PHASING IN ORDER TO PROVIDE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC AND AT THE SAME TIME PROVIDE THE CONTRACTOR WITH THE NECESSARY ROOM FOR HIS/HERS MEANS AND METHODS FOR WATER LINE CONSTRUCTION. THE DETAIL IN THIS PLAN IS INTENDED TO PROVIDE 2 WAY TRAFFIC ON A MINIMUM OF 10' WIDE LANES SEPARATED BY TEMPORARY BARRIERS AND MARKINGS. THIS SHALL BE WORKED INTO THE CONTRACTOR'S PLAN FOR CONSTRUCTION OF THE WATER MAIN.

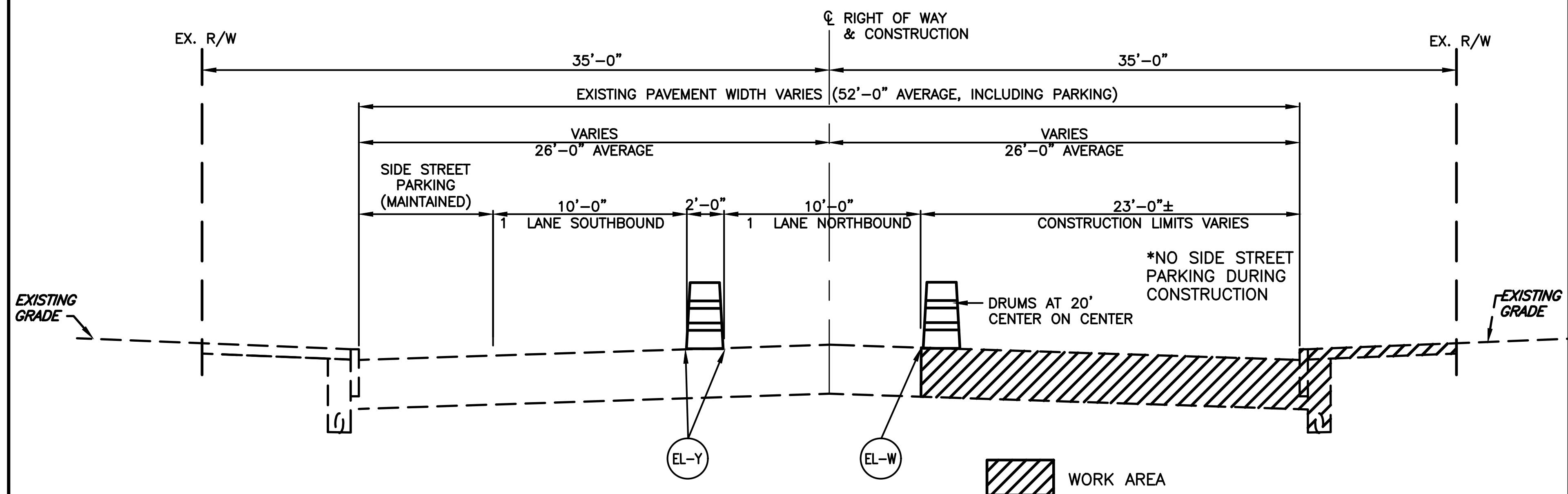


**NOTES:**

- FLAGGERS, ONE FOR EACH DIRECTION, SHALL BE USED TO CONTROL TRAFFIC CONTINUOUSLY FOR AS LONG AS A ONE-LANE OPERATION IS IN EFFECT. THE FLAGGERS SHALL BE ABLE TO COMMUNICATE WITH EACH OTHER AT ALL TIMES AND CONFORM TO OTHER REQUIREMENTS AS DESCRIBED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) IN PART6: TEMPORARY TRAFFIC CONTROL.
- DRUMS SHALL BE SPACED AT 20' CENTER TO CENTER ALONG THE CLOSURE. DRUMS ON THE ADVANCE TAPER SHALL BE SPACED AT 10' CENTER TO CENTER. CONES HAVING A MINIMUM HEIGHT OF 28" MAY BE SUBSTITUTED FOR DRUMS FOR DAYTIME LANE CLOSURES. PROVISIONS SHALL BE MADE TO STABILIZE THE CONES TO PREVENT THEM FROM BLOWING OVER.
- THE LOCATION OF THE ADVANCE WARNING SIGNS SHOULD BE ADJUSTED TO PROVIDE FOR ADEQUATE SIGHT DISTANCE FOR THE EXISTING VERTICAL AND HORIZONTAL ROADWAY ALIGNMENT. THE DISTANCES SHOWN ARE MINIMUMS.
- WITHIN THE LENGTH OF CLOSURE, PROVISIONS SHALL BE MADE TO CONTROL TRAFFIC ENTERING FROM INTERSECTING STREETS AND DRIVES AS NECESSARY TO PREVENT WRONG WAY MOVEMENTS.
- THE ENGINEER MAY SHORTEN THE MAXIMUM ALLOWABLE LENGTH OF CLOSURE TO RELIEVE EXCESSIVE TRAFFIC BACKUPS. ALL TRAFFIC CONTROL SIGNS, CHANNELIZING DEVICES AND THE FLAGGER SHALL BE MOVED FORWARD BEFORE THE CLOSURE REACHES THE MAXIMUM ALLOWABLE LENGTH. ONLY ONE SIDE OF THE ROAD SHALL BE CLOSED AT ANY ONE TIME.
- PAYMENT FOR ALL OF THE ABOVE, UNLESS ITEMIZED SEPARATELY, SHALL BE INCLUDED IN THE COST OF OTHER BID ITEMS.

**CLOSING ONE LANE BY USE OF FLAGGER OPERATION**

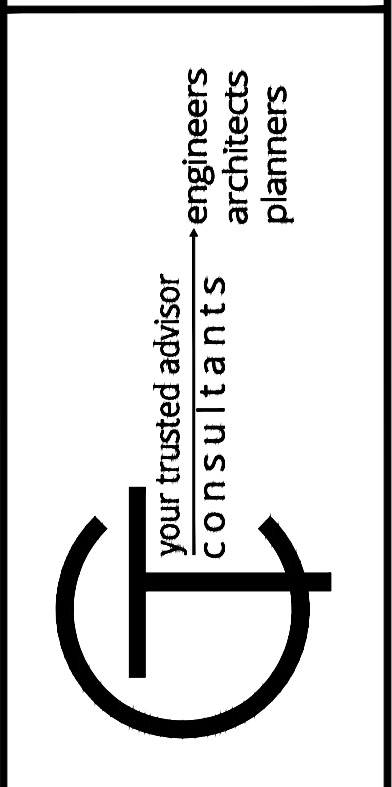
NOT TO SCALE



**MOT - TYPICAL SECTION**

NOT TO SCALE

- EL-W 4" WIDE WHITE EDGE LINE
- EL-Y 4" WIDE YELLOW EDGE LINE



NO	REVISION	DATE

ISSUED FOR: UTILITY COORD.	08/28/18
ISSUE DATE:	AS SHOWN
SCALE:	MPC
DESIGNED BY:	MPC/JPL
DRAWN BY:	XXX
CHECKED BY:	XXX

**ERIE STREET WATER LINE REPLACEMENT**  
**LAKE COUNTY DEPARTMENT OF UTILITIES - WILLOUGHBY -**  
**MAINTENANCE OF TRAFFIC**

PROJECT NO.	180608
DISCIPLINE	CIVIL
SHEET NAME	MOT-01
SHEET	OF
12	20