

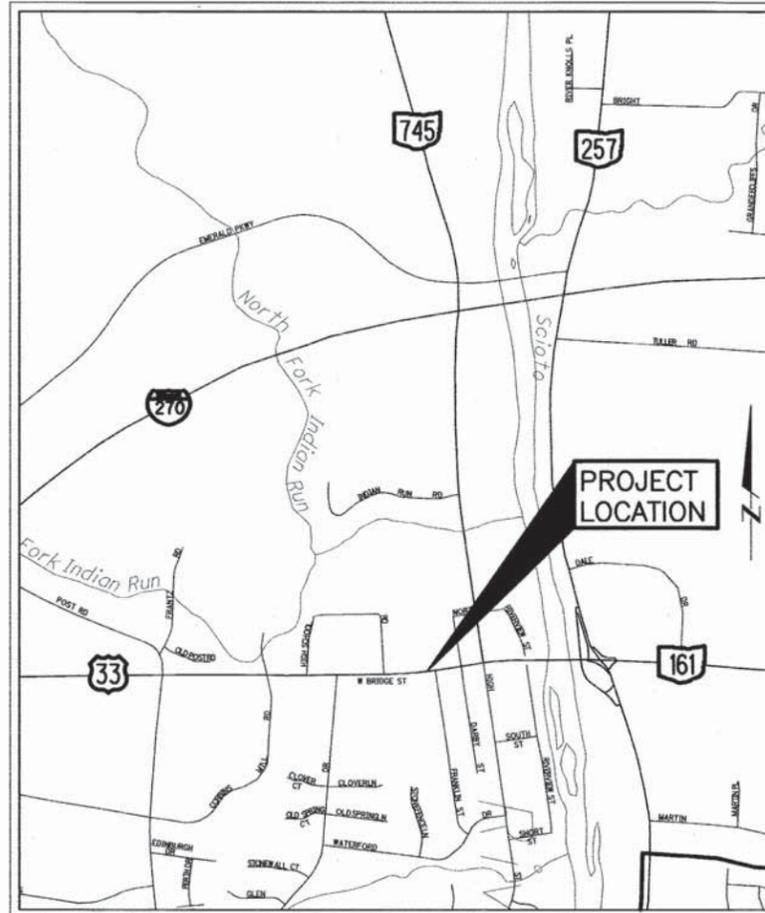
CITY OF DUBLIN, OHIO BRIDGE STREET SCHOOL FLASHER IMPROVEMENTS

13-024-CIP
2014



SHEET INDEX

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LOCATION MAP
N.T.S.

UNDERGROUND UTILITIES

TWO WORKING DAYS

BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY


 CITY ENGINEER

5-16-2014
DATE

APPROVALS: SIGNATURES SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

| SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS | | | | SPECIAL PROVISIONS | SUPPLEMENTAL SPECIFICATIONS |
|---|----------|-----------|----------------|--------------------|-----------------------------|
| ODOT | ODOT | ODOT | CITY OF DUBLIN | | |
| HL-30.22 | 01/21/05 | MT-95.31 | 07/20/12 | SL-04 | 09/18/06 |
| | | MT-95.32 | 07/20/12 | SL-05 | 09/18/06 |
| TC-21.20 | 01/18/13 | MT-95.60 | 07/20/12 | | |
| TC-52.20 | 01/18/13 | MT-105.10 | 07/20/12 | | |
| TC-81.21 | 01/18/13 | MT-110.10 | 07/20/12 | | |
| TC-83.10 | 01/18/13 | | | | |

| REV # | REVISION DESCRIPTION | SHEET | INITIAL | DATE |
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 REGISTERED ENGINEER 3-17-14 DATE

PLAN PREPARED BY:

E.P. FERRIS
AND ASSOCIATES
INC.

CONSULTING CIVIL ENGINEERS AND SURVEYORS
880 KING AVENUE
COLUMBUS, OHIO 43212
(614) 299-2999 Fax (614) 299-2992

GENERAL

THE WORK SHALL ENTAIL REPLACEMENT OF WIRED SIGNING ON A NEW MAST ARM SUPPORT, AND ROUTING OF POWER AND SERVICE CABLE BACK TO THE EXISTING POWER SUPPLY.

A SEPARATE LIGHTED SIGN SHALL ALSO BE INSTALLED WITH CONNECTION TO A POWER SUPPLY AT AN EXISTING SIGNAL.

THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

REFERENCE SPECIFICATIONS

THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC SIGNING EQUIPMENT IN CONFORMANCE WITH:

THE CITY OF DUBLIN SPECIFICATIONS, INCLUDING THE SPECIFICATIONS OF THESE PLANS;

THE 2013 STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL SUPPLEMENTAL SPECIFICATIONS;

UNLESS OTHERWISE SPECIFIED;

THE OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS;

THE CITY OF COLUMBUS 2012 CONSTRUCTION AND MATERIAL SPECIFICATIONS; AND,

THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD)

EACH BIDDER, WITH HIS BID, SHALL SUBMIT TWO (2) COMPLETE SETS OF CATALOG CUT SHEETS, DIAGRAMS, BROCHURES OR OTHER DESCRIPTIVE DATA FOR THE ITEMS HE INTENDS TO FURNISH. EACH BIDDER SHALL ALSO PROVIDE A DETAILED LIST OF ALL VARIANCES FROM ODOT SPECIFICATIONS AND FROM THE SPECIFICATIONS CONTAINED HEREIN, FOR EACH ITEM THAT DOES NOT COMPLY 100 PERCENT WITH THE STATED SPECIFICATIONS. ANY BIDDER THAT DOES NOT COMPLY WITH THIS REQUIREMENT SHALL BE RULED INELIGIBLE, AND SHALL NOT BE AWARDED A CONTRACT. UNLESS OTHERWISE STATED BY THE BIDDER, THE PROPOSAL WILL BE CONSIDERED IN STRICT CONFORMANCE WITH THE SPECIFICATIONS.

ANY REVISIONS TO THESE PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR WRITTEN APPROVAL PRIOR TO CONSTRUCTION.

THE CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

PLAN MODIFICATIONS

ANY MODIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER.

CONTRACT SPECIFICATIONS

ALL CONTRACT SPECIFICATIONS ACCOMPANYING THESE PLANS ARE TO BE CONSIDERED A PART THEREOF.

SERVICE BOXES

ALL VALVE BOXES, METER PITS AND OTHER UTILITY STRUCTURES WILL BE ADJUSTED TO GRADE WHERE NEW WALK AND/OR CURB ARE CONSTRUCTED.

GAS NOTES

THE CONTRACTOR SHALL EXPOSE ALL GAS LINES NEAR PROPOSED SIGNAL SUPPORT FOUNDATIONS AND PROPOSED PULLBOX LOCATIONS. THE COST OF THIS EFFORT SHALL BE INCLUDED IN THE VARIOUS BID ITEMS.

PROPOSAL

NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED IN THE SPECIFICATIONS, BUT PAYMENT SHALL BE DEEMED TO BE INCLUDED AMONG THE SEVERAL ITEMS, AS BID UPON, UNLESS OTHERWISE SPECIFICALLY PROVIDED IN WRITING.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON THE NAVD 88 DATUM.

CONSTRUCTION LAYOUT

ALL CONSTRUCTION LAYOUT SERVICES FOR THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE.

PERMITS

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS NEEDED FOR CONSTRUCTION OF THIS PROJECT.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

UTILITIES AND STRUCTURES SHOWN ON THE PLANS

THE LOCATION OF UTILITIES AND STRUCTURES INDICATED ON THE PLANS IS FROM INFORMATION FURNISHED BY THE UTILITY COMPANIES, FROM FIELD LOCATING DEVICES PROVIDED BY THE UTILITY COMPANY AND FROM TOPOGRAPHIC DATA OBTAINED AT THE TIME OF SURVEY WORK. THE UTILITY LOCATIONS INDICATED ARE NOT NECESSARILY COMPLETE OR CORRECT. THE LOCATIONS, SUPPORT, ADJUSTMENT, PROTECTION AND RESTORATION OF ALL UTILITIES, SERVICES, STRUCTURES AND APPURTENANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY CROSSING

AT ALL UTILITY CROSSINGS, THE BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE, WHERE PROPOSED UTILITIES OR SERVICES CROSS PROPOSED OR EXISTING PAVEMENT AREAS, BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH ITEM 912 SPECIFICATIONS. COST IS TO BE INCLUDED IN THE PRICE BID FOR THE ITEMS INCLUDED IN THIS PROJECT.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (TELEPHONE 800-362-2764, TOLL FREE) AND TO THE OWNERS OF THE UNDERGROUND UTILITIES WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

UTILITY POLE PROTECTION

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE UTILITIES ON UTILITY POLES WITHIN THE INFLUENCE OF THE CONSTRUCTION. THE INTENT IS TO ALLOW THE AFFECTED UTILITIES TO DETERMINE IF THE UTILITY POLES SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS AND PROTECT EXISTING UTILITY POLES TO REMAIN. UTILITY POLES WITHIN THE INFLUENCE OF THE PROPOSED UTILITY IMPROVEMENTS SHALL BE REINFORCED BY THE UTILITY COMPANY AND/OR CONTRACTOR PRIOR TO THESE CONSTRUCTION ACTIVITIES AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COORDINATE WITH AEP AND RESPECTIVE UTILITY COMPANIES DURING CONSTRUCTION FOR SUPPORT OF THESE POLES. NO SEPARATE PAYMENT SHALL BE MADE FOR REMOBILIZATION, SUPPORT OF POLES, OR DOWNTIME DUE TO UTILITY COORDINATION. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS INCURRED FOR THE SUPPORT OF UTILITY POLES SHALL BE INCLUDED WITHIN THE PRICE OF THE PROJECT.

EXISTING UTILITIES

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY.

THE CONTRACTOR IS RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITY ALONG WITH THE RELOCATION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY. PRIVATE UTILITY MANHOLES WITHIN THE LIMITS OF THE WORK SHALL BE READJUSTED TO GRADE BY THE RESPECTIVE UTILITY.

THE CONTRACTOR SHALL EXPOSE ANY UTILITY LINE OR STRUCTURE (PUBLIC OR PRIVATE) SUFFICIENTLY IN ADVANCE OF LAYING PIPE, DUCT, CONDUIT, OR POLE FOUNDATION IN ORDER THAT THE ENGINEER MAY DETERMINE THE EXACT ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS. LOCATE ALL PUBLIC AND PRIVATE UTILITY LINES AFFECTED BY THIS PROJECT. COST OF THE ABOVE, IF ANY, SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENT.

ANY EXISTING WATERLINE, STORM SEWER, CURB OR WATERLINE OR STORM SEWER APPURTENANCE OUTSIDE THE CONSTRUCTION LIMITS DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED, AS DIRECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.

TIME WARNER CABLE
3760 INTERCHANGE DRIVE
P.O. BOX 2553
COLUMBUS, OHIO 43216-2553
ATTN: RAY MAURER
(614) 481-5262
(614) 348-2979 - CELL

AEP
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230-6605
ATTN: PAUL PAXTON
(614) 883-6831
(614) 949-8883 - CELL

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
1250 FAIRWOOD AVENUE
COLUMBUS, OHIO 43206
ATTN: JOHN NEWSOME
(614) 645-8460
ATTN: JEREMY CAWLEY
(614) 645-6795

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 645-7631
(614) 645-8156
(614) 645-7102 (EMERGENCY)
(614) 645-7788 (EMERGENCY)

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER RINGS ROAD
DUBLIN, OHIO 43016-1236
ATTN: MIKE SWEDER
(614) 410-4621

COLUMBIA GAS OF OHIO
1600 DUBLIN ROAD
COLUMBUS, OHIO 43215
ATTN: DAVE KELLY
(614) 481-1058
(614) 634-1812 - CELL

AT&T
111 NORTH FOURTH STREET
8TH FLOOR
COLUMBUS, OHIO 43215
ATTN: TOM ZIOMEK
(614) 223-7162

XO COMMUNICATIONS
10 WEST BROAD STREET
SUITE 300
COLUMBUS, OHIO 43215
ATTN: JEREMY JOHNSON
(614) 416-1703

TIME WARNER COMMUNICATIONS
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
ATTN: JEFFREY WHATLEY
(614) 255-0855

WIDOPEN WEST
3765 CORPORATE DRIVE
COLUMBUS, OHIO 43231
ATTN: JAYTEE NOVARIA
(614) 948-4653
(614) 668-7632 - CELL

PRE-CONSTRUCTION

A PRE-CONSTRUCTION CONFERENCE INVOLVING THE CITY OF DUBLIN ENGINEER, THE PRINCIPAL CONTRACTOR, AND ALL AVAILABLE SUB-CONTRACTORS WILL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE CONFERENCE THROUGH THE CITY. DURING THE CONFERENCE THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR CONSTRUCTION, INCLUDING SEEDING SCHEDULES. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN ENGINEER TWO WEEKS PRIOR TO STARTING WORK AND AGAIN 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

COORDINATING WITH UTILITIES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH THE PRIVATE UTILITIES AS REQUIRED. THESE UTILITIES MAY BE REQUIRED TO BRACE, TEMPORARILY SUPPORT, OR RELOCATE THEIR RESPECTIVE UTILITIES SO THAT THE PROPOSED IMPROVEMENTS IN THESE PLANS CAN BE CONSTRUCTED.

ALL EXPENSES INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED PRIVATE UTILITY LINES WITHIN THE PUBLIC RIGHT OF WAY SHALL BE BORNE, BY THE UTILITY COMPANIES. THE CONTRACTOR AND UTILITY OWNER(S) ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES, GIVING AMPLE LEAD-TIME OF 72 HOURS NOTICE MINIMUM, OF UTILITY LINES OR POLES THAT ARE IN THE WAY OF CONSTRUCTION.

ALL EXISTING UTILITIES NOT OWNED BY THE CITY THAT REQUIRE RELOCATION OR ATTENTION DURING CONSTRUCTION SHALL BE RELOCATED OR ATTENDED TO BY THEIR RESPECTIVE OWNER AT NO COST TO THE CITY. NO REIMBURSEMENT FOR REMOBILIZATION TO THE CONTRACTOR WILL BE PROVIDED.

CONTRACTOR SHALL PREPARE WRITTEN NOTIFICATION TO THE BUSINESS AND PROPERTY OWNERS AND RESPECTIVE UTILITY COMPANIES A MINIMUM OF 48 HOURS IN ADVANCE OF ALL OPERATIONS WHICH MAY DISCONNECT EXISTING UTILITIES. NO DISCONNECTIONS SHALL BE PERMITTED BETWEEN 6:00 AM TO 9:00 AM UNLESS OTHERWISE APPROVED BY THE ENGINEER.

NON-RUBBER TIRED VEHICLES

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS OR HIGHWAYS WITHOUT WRITTEN PERMISSION FROM THE CITY ENGINEER.

"AS BUILT" DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING "AS BUILT" DRAWINGS OF THE COMPLETED PROJECT, TO BE BASED UPON FIELD PLANS, CUT SHEETS, AND PROJECT INSPECTOR RECORDS. ONE FULL-SIZE SET OF "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE CITY. THE COST FOR PREPARING THESE DRAWINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST BID FOR THE VARIOUS ITEMS.

PROOF SURVEY

FOLLOWING COMPLETION OF CONSTRUCTION, A PROOF SURVEY SHALL BE PROVIDED BY THE CONTRACTOR TO THE DIVISION OF ENGINEERING THAT DOCUMENTS AS-BUILT INFORMATION OF ALL ELEMENTS OF THIS PROJECT. THE SURVEY SHALL BE PREPARED AND SIGNED BY AN OHIO PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL REVISE THE ORIGINAL MYLARS IN RED INK, TO THE SATISFACTION OF THE CITY, SHOWING ALL CHANGES IN THE WORK. THE COST OF THE PROOF SURVEY, INCLUDING MYLAR REVISIONS, WILL BE PAID AT THE LUMP SUM PRICE BID FOR ITEM SPECIAL, PROOF SURVEY.

GENERAL NOTES

W. BRIDGE ST/ U.S. 33/S.R. 161
SCHOOL ZONE IMPROVEMENTS

SECURING EXCAVATIONS AND TRENCHES FOR NON-WORKING HOURS

OPEN TRENCHES SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS AND PLATES AT ALL TIMES. PLACEMENT OF PROPOSED MATERIALS SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND PAVEMENT AND CURBING REMOVAL. THE LENGTH OF TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL AT ALL TIMES BE SUBJECT TO APPROVAL BY THE ENGINEER.

EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED, OR BACKFILLED DURING NON-WORKING HOURS.

MAINTAINING SERVICE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS FOR MAIL SERVICE, POLICE, FIRE AND SOLID WASTE REMOVAL IN THE CONSTRUCTION AREA. COST FOR MAINTAINING SERVICE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THIS PROJECT.

SIDEWALKS AND CURB RAMPS

ALL SIDEWALKS AND CURB RAMPS REPLACED AND/OR INSTALLED SHALL MEET THE ADA STANDARDS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MEET THESE CONSTRUCTION STANDARDS.

CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

FIELD STAKING OF THE PROJECT IS REQUIRED BY THE CONTRACTOR. ALL CONSTRUCTION LAYOUT SERVICES FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR OR THE CONTRACTOR'S REPRESENTATIVE.

RIGHT-OF-WAY

IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHT-OF-WAYS INCLUDING, BUT NOT LIMITED TO, EASEMENTS, COURT ENTRIES, RIGHT OF ENTRY OR ACTION FILED IN COURT, IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT ON THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE OWNER.

DESIGNATED CURB/DRIVEWAY LOCATIONS SHALL BE APPROVED BY THE ENGINEER FOR ENTERING AND EXITING THE WORK ZONE PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. AT ALL TIMES THE EXISTING CURB TO REMAIN SHALL BE PRESERVED BY THE CONTRACTOR. IN THE EVENT THAT THE EXISTING CURB IS DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPLACE THE CURB AT HIS EXPENSE. NO SEPARATE PAYMENT SHALL BE MADE.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS AND STAKES. ANY PROPERTY CORNER OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

ACCESS

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ROADWAYS, BUSINESSES, AND RESIDENCES DURING CONSTRUCTION.

CONSTRUCTION LIMITS

THIS PROJECT IS WITHIN PUBLIC RIGHT-OF-WAY AND DEFINED PROPERTY BOUNDARIES. NO WORK SHALL TAKE PLACE ON ADJACENT PROPERTY WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE PROPERTY OWNER AND/OR A TEMPORARY WORK EASEMENT. NO GRADING ACTIVITIES SHALL BE PERFORMED OUTSIDE THE PROJECT ONTO ADJACENT PRIVATE PROPERTY OWNERS, WITHOUT AN EASEMENT. EXISTING GRADES SHALL BE MATCHED WITHIN THE LEGAL BOUNDARIES UNLESS OTHER PROVISIONS HAVE BEEN MADE.

PLAN DISCREPANCIES

DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS, DRAWINGS, AND SPECIFICATIONS ARE NOT INTENDED. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS. THE CONTRACTOR IS TO CLARIFY ANY SUCH DISCREPANCIES WITH THE ENGINEER PRIOR TO COMMENCING WORK.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

RESTORATION, CLEANUP, & MAINTENANCE

IT IS THE INTENT OF THE OWNER TO KEEP INCONVENIENCE TO THE ADJACENT PROPERTY OWNERS TO AN ABSOLUTE MINIMUM. ALL WORK DESCRIBED IN THESE PLANS AND SPECIFICATIONS IS SITUATED IN IMPROVED AREAS. THE CONTRACTOR SHALL CLEAN ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AT THE COMPLETION OF EACH WORKDAY INCLUDING THE REMOVAL OF ALL MUD, DIRT OR DEBRIS FROM STREETS, DRIVES OR DRIVEWAYS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

THE CONTRACTOR SHALL LEAVE THE AREA, DISTURBED BY CONSTRUCTION, IN THE SAME OR BETTER CONDITION AS PRIOR TO COMMENCEMENT OF THIS WORK. THE FLOW IN ALL SEWERS, DRAINS AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSE AND DRAINS ARE DISTURBED OR DESTROYED DURING THE CONSTRUCTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO CONDITION SATISFACTORY TO THE ENGINEER.

STORAGE OF EQUIPMENT AND MATERIALS

NO MATERIALS, INCLUDING PIPE, SHALL BE STORED WITHIN THE RIGHT-OF-WAY OR WITHIN TWENTY (20) FEET OF ANY INTERSECTING STREET OR DRIVEWAY. DURING NON-WORKING HOURS, STORAGE OF EQUIPMENT SHALL COMPLY WITH THESE SAME REQUIREMENTS. COMPLIANCE WITH THESE REQUIREMENTS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL INDICATE HIS INTENT WITH REGARD TO STORAGE OF MATERIAL AT THE PRECONSTRUCTION MEETING.

SITE VISIT

THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE HIM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THIS CONTRACT.

GENERAL

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENT.

MAINTENANCE OF TRAFFIC

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN TRAFFIC FOR ANY WORK ACTIVITIES WHICH MAY OCCUR IN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL COORDINATE LANE CLOSURES AND ANY OTHER TRAFFIC CONTROL MEASURES WITH THE CITY OF DUBLIN. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

MAINTENANCE OF TRAFFIC CONSTRUCTION SCHEDULE

THE CONTRACTOR SHALL, SUBMIT IN WRITING, HIS OWN METHOD OF OPERATION TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR WILL BE ADVISED AS TO THE REVIEW RESULTS IN WRITING WITHIN FIFTEEN (15) DAYS.

ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN

WITH THE EXCEPTIONS AS NOTED BELOW, DURING NON-WORKING HOURS AND DURING PEAK PERIODS (7-9AM, AND 3-6PM), ALL TRAVEL LANES SHALL REMAIN OPEN. LANE CLOSURES MAY BE IMPLEMENTED ONLY DURING NON-PEAK HOURS.

WORK HOURS ON SCHOOL DAYS SHALL ONLY BE ALLOWED BETWEEN THE AM AND PM SCHOOL FLASHER TIMES.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWO WEEKS PRIOR TO BEGINNING WORK AND WEEKLY THEREAFTER TO DISCUSS ANY CHANGES TO THE MAINTENANCE OF TRAFFIC PLAN AND/OR COMPLETION DATE. BEFORE WORK IS STARTED ON THIS PROJECT THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATION AND A TRAFFIC MAINTENANCE CONTROL PLAN FOR APPROVAL. NO WORK SHALL BE STARTED THAT WILL RESTRICT ANY LANE USAGE UNLESS IT IS THE INTENT OF THE CONTRACTOR TO WORK FULL TIME WITH A FULL FORCE IN ORDER TO COMPLETE THE WORK WITH NO UNNECESSARY DELAYS. THE CITY WILL FORWARD THIS INFORMATION TO THE PUBLIC, LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS VIA MEDIA SOURCES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT CMS 614, ODOT MOT STANDARD DRAWINGS AS REFERENCED IN THESE PLANS, AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE LATEST VERSION OF THE ODOTCD.

ALL CONSTRUCTION SIGNAGE SHALL BE INSTALLED AND COVERED BEFORE CONSTRUCTION SHALL BEGIN. AFTER CONSTRUCTION SIGN INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWO WORKING DAYS BEFORE WORK BEGINS AND REQUEST AN INSPECTION OF ALL SIGNAGE.

MAINTENANCE OF ALL CONTRACTOR-SUPPLIED SIGNS, BARRICADES, VERTICAL PANELS AND DRUMS IS THE CONTRACTOR'S RESPONSIBILITY. IF THE CONTRACTOR FAILS TO CORRECT DEFICIENCIES WITHIN FOUR HOURS OF NOTIFICATION, THE CITY SHALL CORRECT OR HIRE SOMEONE TO CORRECT THE DEFICIENCIES. THE CONTRACTOR SHALL THEN BE BACK CHARGED PER ODOT SPECIFICATION 614.

THESE PROVISIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF ANY OF HIS LEGAL RESPONSIBILITIES FOR THE SAFETY OF THE PUBLIC.

PAYMENT FOR ALL LABOR EQUIPMENT AND MATERIALS AND TEMPORARY INSTALLATIONS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THESE PLANS.

MAINTENANCE OF WIRED SIGNS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNING INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- A) NEW WIRED SIGN INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED, INCLUDING THE 10-DAY PERFORMANCE TEST.
- B) TESTING PROCEDURES SHALL FOLLOW 631.11-ODOT CONSTRUCTION ADMINISTRATION MANUAL OF PROCEDURES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING & PROPOSED TRAFFIC SIGNAL DEVICES UNDER THE FOLLOWING CONDITIONS FROM THE TIME OF AWARD OF THE PROJECT UNTIL THE DEVICE HAS BEEN ACCEPTED BY THE CITY ENGINEER'S OFFICE.

MAINTENANCE OF WIRED SIGNS CONT'D

THE CONTRACTOR SHALL PROVIDE ONE OR MORE CONTACT PERSONS WHO CAN RECEIVE ALL DEVICE OUT-OF-SERVICE CALLS THAT FALL UNDER THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL DISPATCH MAINTENANCE PERSONNEL TO CORRECT THE PROBLEM. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER & THE PROJECT ENGINEER WITH ADDRESSES & PHONE NUMBERS OF THESE CONTACT PERSONS. MAINTENANCE PERSONNEL MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS & A PERSON IS CONTINUOUSLY AVAILABLE TWENTY-FOUR (24) HOURS A DAY & SEVEN (7) DAYS A WEEK. THE CONTRACTOR SHALL PROVIDE MAINTENANCE SERVICE ENTIRELY WITH HIS PERSONNEL.

THE CONTRACTOR SHALL CORRECT ALL BULB OUTAGES, DEVICE MALFUNCTIONS OF ANY TYPE, INTERNAL CABINET POWER LOSSES, SPAN OR CABLE PROBLEMS AND MISALIGNED OR DAMAGED VEHICULAR OR PEDESTRIAN SIGNAL HEADS OR WIRED SIGNS WITHIN TWO (2) HOURS AFTER THE CONTRACTOR'S CONTACT PERSON HAS BEEN NOTIFIED OF ANY ONE OF THE ABOVE. IN THE EVENT A NEW SIGNAL DEVICE IS DAMAGED PRIOR TO ACCEPTANCE, THE DAMAGED DEVICE EXCEPT POLES SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER'S OFFICE. ANY DAMAGED CABINET ASSEMBLY DEVICE IF REPAIRED SHALL BE TESTED AGAIN BEFORE THE DEVICE IS INSTALLED.

IN THE EVENT OF A LOSS OF POWER TO THE SIGNAL INDICATIONS OTHER THAN AN ELECTRIC COMPANY GENERAL POWER OUTAGE, THE CONTRACTOR AT HIS EXPENSE SHALL IMMEDIATELY TAKE ACTION [WITHIN 30 MINUTES] TO PROPERLY DIRECT TRAFFIC UNTIL THE SIGNAL IS BACK ON "FLASH" OR OPERATING PROPERLY.

IF A TRAFFIC SIGNAL POLE IS DAMAGED & THAT DAMAGE CAUSED POLE INSTABILITY, THEN THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION (WITHIN 2 HOURS) TO STABILIZE IT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE PROJECT WITH A NEW UNDAMAGED POLE.

WHERE OUT-OF-SERVICE CALLS ARE THE DIRECT RESULT OF A VEHICULAR ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COLLECTION OF ANY COMPENSATION FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE TO THE CONTRACTOR'S MATERIALS.

WHERE THE CONTRACTOR HAS FAILED TO RESPOND OR CANNOT RESPOND TO AN OUT-OF-SERVICE CALL WITHIN THE TIME PERIOD SPECIFIED ABOVE AT LOCATIONS UNDER HIS RESPONSIBILITY, THE CITY ENGINEER MAY TAKE ACTION AS NECESSARY TO CORRECT THE SITUATION. THIS ACTION MAY INCLUDE CONTROLLING THE INTERSECTION USING CITY POLICE OFFICERS, COMPLETELY REMOVING OR REPLACING ANY MALFUNCTIONING TRAFFIC CONTROL DEVICE, AND/OR INSTALLING ANY DEVICE(S) REQUIRED TO RETURN THE INTERSECTION TO REGULAR SIGNAL OPERATION. ALL COSTS ASSOCIATED WITH THESE ACTIONS SHALL BE BILLED DIRECTLY TO THE CONTRACTOR & NOT INCLUDED IN ITEM 614 MAINTAINING TRAFFIC.

ANY NON-OPERATING VEHICULAR SIGNAL HEAD SHALL BE COVERED AS REFERENCED TO IN THESE PLANS. ALL SIGNAL HEADS WHILE COVERED SHALL BE DARK BY DISCONNECTING POWER TO THE SIGNAL INDICATIONS. NO COVERED HEAD SHALL BLOCK THE VIEW OF AN OPERATING HEAD.

IN ADDITION TO ITEM 614.10, THE FOLLOWING SHALL APPLY.

IF THE CONTRACTOR IS REQUIRED TO ERECT AND/OR INSTALL ANY TEMPORARY TRAFFIC CONTROL DEVICE OR TEMPORARY SIGNAL/SUPPORT POLE THAT IS NOT SPECIFIED IN THESE PLANS, THEN THE CONTRACTOR SHALL SUBMIT THE DESIGN CHANGE TO THE CITY ENGINEER, FOR APPROVAL PRIOR TO THEIR INSTALLATION. THIS DIVISION ALSO RESERVES THE RIGHT TO MAKE OR HAVE THE CONTRACTOR MAKE CHANGES TO THE TRAFFIC SIGNAL OPERATION.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS, EXCEPT AS NOTED, SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

GENERAL NOTES

W. BRIDGE ST/ U.S. 33/S.R. 161
SCHOOL ZONE IMPROVEMENTS

DATE: 11/20/2018 10:48:10 AM BY: JEFFREY L. FERRIS, P.E. PROJECT: W. BRIDGE ST/ U.S. 33/S.R. 161

LOCAL ACCESS

INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES. DRIVEWAY CLOSURE MAY BE NECESSARY TO ENABLE WORK ON OR IN FRONT OF A DRIVE. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING OWNERS, RESIDENTS, OR BUSINESS OPERATORS IN WRITING AT LEAST 48 HOURS BUT NOT MORE THAN 72 HOURS PRIOR TO CLOSURE. THE ENGINEER SHALL BE GIVEN A LIST OF THE PERSONS THAT WERE GIVEN NOTICES WITH THE DATE OF NOTICE INCLUDED. CLOSURE IS PERMITTED ONLY DURING WORK HOURS AND ACCESS MUST BE RETURNED AT THE END OF EACH WORKING DAY. PROPERTIES WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED AT A TIME, WHILE WORK IS PERFORMED IN THE AREA OF THE CLOSED DRIVE.

INDIVIDUAL DRIVE CLOSURES SHALL BE KEPT TO THE MINIMUM TIME NEEDED FOR CONSTRUCTION ACTIVITIES. EVERY EFFORT MUST BE MADE TO ACCOMMODATE THE OWNER'S NEED FOR ACCESS.

ITEM 614 LAW ENFORCEMENT OFFICER (LEO) WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 614 AND THE ODOTCD, A UNIFORMED LAW ENFORCEMENT OFFICER (L.E.O.) SHALL BE PROVIDED FOR THE FOLLOWING TASKS.

- 1-SETUP OF MAINTENANCE OF TRAFFIC ITEMS. ONE LEO WITH PATROL CAR SHALL BE PROVIDED WHILE THE WORK ZONE ITEMS ARE BEING INSTALLED.
- 2-AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL UTILIZE CITY OF DUBLIN LAW ENFORCEMENT OFFICERS FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL CONTACT THE DUBLIN POLICE SPECIAL DUTY COORDINATOR AT (614) 410-4800 AT LEAST 48 HOURS IN ADVANCE OF WHEN THE LEO WITH PATROL CAR IS NEEDED, INCLUDING THE DATES, NUMBER OF HOURS, AND NUMBER OF OFFICERS NEEDED.

THE PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. THE ENGINEER SHALL HAVE CONTROL OF THEIR PLACEMENT AND GENERAL TASK DETAILS. LEO'S REQUIRED BY THE TRAFFIC MAINTENANCE TASKS SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 28 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.

SIGNAL INSTALLATION INSPECTION

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING ONE WORK DAY BEFORE STARTING ANY TRAFFIC SIGNAL WORK INCLUDING BUT NOT LIMITED TO POLE FOUNDATIONS, PULL BOX, TRAFFIC CONDUIT, SIGNAL OR LOOP WIRING, OR LOOP CUTTING. IF THE CONTRACTOR STOPS ANY TRAFFIC SIGNAL INSTALLATION WORK FOR GREATER THAN THREE CONSECUTIVE WORKING DAYS FOR ANY REASONS, RE-NOTIFICATION IS REQUIRED.

TEN-DAY TEST REQUIREMENTS

A 10-DAY TEST IS REQUIRED TO START AFTER INSTALLATION IS 100% COMPLETE. NO PARTIAL TESTS WILL BE CONDUCTED. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ENGINEER STATING THAT THE TRAFFIC CONTROL INSTALLATION IS 100% COMPLETED, AND A START DATE FOR THE TEN DAY TEST IS REQUESTED. IF LESS THAN 100% COMPLETION IS DETECTED UPON INSPECTION BY THE CITY OR ANY MAJOR MALFUNCTION IS DETECTED THEN THE TEN-DAY SHALL BE COMPLETELY RESTARTED.

COORDINATION WITH THE COLUMBUS PAVING THE WAY PROGRAM (PTWP)

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. WHEN DETOURS ARE PLANNED, THE NOTIFICATION SHALL BE AT THE PRECONSTRUCTION MEETING OR 30 DAYS IN ADVANCE ONCE CONSTRUCTION HAS BEGUN. LANE AND RAMP CLOSURES OF LESS THAN TWO WEEKS DURATION AND MORE THAN TWO DAYS SHALL BE REPORTED AT LEAST 3 WORKING DAYS IN ADVANCE. FOR SHORT-TERM LANE OR RAMP CLOSURES (2 DAYS OR LESS) NOTIFICATION SHALL BE MADE AT LEAST ONE DAY IN ADVANCE.

INFORMATION SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT TRAFFIC AT PRESENT AND IN THE NEXT 30 DAYS. THE REPORT SHALL BE OF A FORMAT APPROVED BY THE CITY OR ONE SUPPLIED BY PTWP. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL WHO WILL BE RESPONSIBLE TO PREPARE THIS REPORT AT THE PRECONSTRUCTION MEETING. ANY UNFORESEEN IMPACT TO TRAFFIC SHALL BE REPORTED TO THE CITY AS SOON AS POSSIBLE.

THE CITY SHALL PROVIDE THIS INFORMATION TO THE PTWP. ALL CONSTRUCTION ACTIVITIES THAT INTERFERE WITH TRAFFIC SHALL BE REPORTED TO THE PTWP. THIS INFORMATION SHALL BE PROVIDED TO THE PROGRAM COORDINATOR AT (614) 645-3970, OR BY FAX AT (614) 645-5844.

PERMANENT TRAFFIC CONTROL

ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THE PROJECT BY THE CONTRACTOR. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.

PEDESTRIAN ACCESS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, AND AWAY FROM THE CONSTRUCTION SITE.

THE SAFETY OF PEDESTRIAN TRAFFIC SHALL BE CONSIDERED AT ALL TIMES IN THE PROVISION OF TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS AND NOTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LIGHTS, SIGNS, BARRICADES, AND OTHER WARNINGS TO PHYSICALLY SEPARATE THE PEDESTRIAN FROM HAZARDS INCIDENTAL TO THE CONSTRUCTION OPERATIONS SUCH AS OPEN EXCAVATIONS, ETC. AT ALL TIMES, THE PEDESTRIAN MOT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

MATERIAL INFORMATION SUBMITTAL AND TESTING CERTIFICATION

PRIOR TO ORDERING OF EQUIPMENT, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR APPROVAL BY THE CITY OF DUBLIN:

- 1) A COMPLETE SCHEDULE OF EQUIPMENT INTENDED TO BE FURNISHED INCLUDING THAT WHICH HAS BEEN SPECIFICALLY LISTED IN THESE PLAN QUANTITIES AND THAT WHICH HAS NOT BEEN IDENTIFIED.
- 2) A DETAILED LIST OF ALL VARIANCES FROM ODOT SPECIFICATIONS AND FROM THE SPECIFICATIONS CONTAINED HEREIN FOR EACH ITEM THAT HE INTENDS TO FURNISH THAT DOES NOT COMPLY 100% WITH THESE SPECIFICATIONS. UNLESS OTHERWISE STATED BY THE CONTRACTOR THE SUPPLIED ITEMS WILL BE CONSIDERED AS BEING IN STRICT ACCORDANCE WITH ALL SPECIFICATIONS.
- 3) TWO (2) COMPLETE SETS OF DIAGRAMS, SHOP DRAWINGS, CUT SHEETS, BROCHURES FOR THE ITEMS THE CONTRACTOR INTENDS TO FURNISH, INCLUDING THOSE ITEMS THAT HAVE NOT BEEN SPECIFICALLY NAMED BY THE PRODUCT NUMBER. IF FOUND SATISFACTORY, ONE COPY WILL BE RETURNED MARKED "APPROVED". THE CONTRACTOR MAY ORDER THE MATERIAL UPON RECEIVING THE APPROVED COPIES.
- 4) A WRITTEN WORK SCHEDULE NOT LESS THAN 2 WEEKS IN ADVANCE OF STARTING WORK.
- 5) COLOR PAINT CHIPS ON ALL AFFECTED TRAFFIC CONTROL ITEMS INDICATED IN THESE PLANS.

MATERIAL INFORMATION SUBMITTAL AND TESTING CERTIFICATION CONT'D

PRIOR TO ORDERING ANY EQUIPMENT DESIGNATED TO BE PAINTED, THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR APPROVAL PAINT CHIP SAMPLES FOR EACH AFFECTED ITEM, ALONG WITH THE PAINT CHIP REFERENCE NUMBER AND THE MANUFACTURING PROCESS FOR PAINTING THE MATERIAL. ANY COST ASSOCIATED WITH PROVIDING THESE PAINT CHIP SAMPLES SHALL BE CONSIDERED INCIDENTAL TO THE COST BID FOR THIS PROJECT.

WHEN REQUESTED, THE MANUFACTURER SHALL PROVIDE A CERTIFIED LETTER STATING THAT THE CONTROLLER COMPONENTS HAVE BEEN SUCCESSFULLY TESTED IN EXACT ACCORDANCE WITH THE NEMA ENVIRONMENTAL STANDARDS AND TEST PROCEDURES. SUCH TESTING SHALL HAVE OCCURRED NO MORE THAN THE SIX-MONTHS PRIOR TO THE DATE OF THIS CONTRACT. THIS SIX-MONTH REQUIREMENT MAY BE WAIVED BY THE ENGINEER IF THE MANUFACTURER CAN SATISFACTORILY DEMONSTRATE THAT THE SUPPLIED EQUIPMENT IS IDENTICAL TO THE EQUIPMENT THAT WAS PREVIOUSLY TESTED AND THAT THE MANUFACTURER REQUEST THAT THIS TESTING REQUIREMENT BE WAIVED. ANY REDESIGN OR CHANGES OF ANY TYPE INCLUDING ANY COMPONENT CHANGES WHICH WOULD MAKE THE BID CONTROL EQUIPMENT NOT IDENTICAL TO TESTED CONTROL EQUIPMENT WILL REQUIRE THE ABOVE EQUIPMENT TO BE RE-CERTIFIED.

CONTRACTOR TESTING OF ELECTRONIC SIGNAL COMPONENTS BEFORE PRIMARY POWER INSTALLATIONS:

IF ANY TESTING OF THE SIGNAL OR WIRED SIGN INSTALLATIONS OR ANY ASPECT THEREOF IS PLANNED BY THE CONTRACTOR PRIOR TO AN APPROVED TURN-ON, THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONE WORKING DAY IN ADVANCE AND SHALL HAVE A SPECIAL DUTY OFFICER PRESENT FOR THE TEST TO CONTROL TRAFFIC AS NEEDED. TESTING AND/OR TROUBLESHOOTING SHALL BE PERFORMED BY AN IMSA LEVEL TWO CERTIFIED TECHNICIAN. IF PORTABLE POWER IS APPROVED FOR USE, IT SHALL BE PROPERLY CONNECTED TO A GROUND ROD READING 10 OHMS OR LESS AND HAVE A PROPER REGULATING DEVICE TO SMOOTH CURRENT.

TESTING

THE CONTRACTOR SHALL SUBMIT CERTIFIED DOCUMENTATION, IN ACCORDANCE WITH 631.11, FOR THE FOLLOWING TESTS:

- 1. GROUND TEST
- 2. SHORT-CIRCUIT TEST
- 3. CIRCUIT CONTINUITY TEST
- 4. CABLE INSULATION TEST
- 5. FUNCTIONAL TEST

WIRING DIAGRAMS

TWO (2) EACH WIRING DIAGRAMS AND TWO (2) EACH SERVICE/OPERATION MANUALS FOR EACH DIFFERENT PIECE OF EQUIPMENT SHALL BE PROVIDED.

INSTALLATION LAYOUT

ALL TRAFFIC SIGNAL SUPPORTS AND ALL OTHER STATIONED SIGNAL ITEMS SHALL BE LOCATED AND MARKED BY A PROFESSIONAL SURVEYOR USING THE STATION NUMBERS AND OFFSETS PROVIDED IN THESE PLANS. THE SURVEYOR SHALL SET PROPER POLE FOUNDATION ELEVATIONS AND STAKE EACH POLE FOUNDATION ANGLE SO IT MATCHES THE WALK EDGE ANGLE. PROJECT PERSONNEL SHALL APPROVE ALL FOUNDATION LOCATIONS AND ELEVATIONS PRIOR TO THE CONTRACTOR INSTALLING THEM. COSTS INCURRED FOR THIS SERVICE SHALL BE INCIDENTAL TO THE COST OF THE PROJECT OR PROVIDED UNDER A CONSTRUCTION LAYOUT STAKE ITEM.

ITEM 638 VALVE BOX ADJUSTED TO GRADE

A CONTINGENCY QUANTITY OF ONE (1) EACH IS CARRIED TO THE GENERAL SUMMARY, FOR POSSIBLE VALVE ADJUSTMENT.

ITEM 625 CONDUIT, JACKED OR DRILLED, TYPE 725.051, BY SIZE, SCHEDULE 80, AS PER PLAN

IN ADDITION TO ITEMS 625 AND 725, AT THOSE LOCATIONS WHERE CONDUIT CROSSES WATER LINES, THE CONDUIT SHALL BE INSTALLED TO PROVIDE FOR A 2-FOOT MINIMUM CLEARANCE FROM EXISTING WATER LINES.

ITEM 625 TRENCH IN PAVED AREA, AS PER PLAN

IT IS THE INTENT OF THIS ITEM THAT THE CONTRACTOR SHALL REINSTALL THE EXISTING BRICK SIDEWALK AFFECTED BY THE FOUNDATION INSTALLATION AND CONDUIT BETWEEN THE SUPPORT AND PULL BOX.

THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE THE EXISTING BRICKPAVERS AFFECTED BY THE TRENCHING WORK, FOR REUSE IN THE COMPLETED INSTALLATION.

THE BRICK SIDEWALK AND SUBGRADE COURSES SHALL MATCH EXISTING. SEE DETAILS IN THESE PLANS. THE TRENCH SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF TYPE II). THE CONTRACTOR SHALL REPLACE THE EDGING WITH PERMALOC BRAND ASPHALT EDGE OR APPROVED EQUAL.

IN THE EVENT BEDROCK SHALLower THAN 2' IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER TO INSTALL CONDUIT AT A SHALLower DEPTH.

PAYMENT SHALL BE AT THE UNIT PRICE BID, COMPLETE AND IN PLACE.

ITEM 625 PULLBOX, 725.06, 18", AS PER PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE TOPS OF THE PULLBOXES SHALL BE FLUSH WITH ADJACENT SIDEWALKS OR PATHWAYS. THE COST OF ANY COORDINATION BETWEEN PULLBOX AND SIDEWALK INSTALLATIONS ARE INCIDENTAL TO THE COST BID FOR THIS ITEM.

THE POLYMER CONCRETE PULLBOXES SHALL BE QUAZITE BRAND, PGIII8 BG18, OR APPROVED EQUAL. COVERS SHALL BE STAMPED "TRAFFIC" AND SHALL HAVE SKID RESISTANCE SURFACE. THE COVER SHALL BE SECURED TO THE BOX WITH TWO STAINLESS STEEL HEX-HEAD BOLTS, WASHERS AND INSERTS.

ITEM 625 GROUND ROD, AS PER PLAN

TWO (2) GROUND RODS SHALL BE INSTALLED AT THE MAST ARM SUPPORT. THE SUPPORT GROUND ROD SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE FOUNDATION FROM THE CABINET GROUND ROD, INSTALLED A MINIMUM 6 FEET APART.

THE NO. 4 AWG GROUNDING CONDUCTOR SHALL BE INSTALLED IN 3/4" CONDUIT BETWEEN THE GROUND ROD AND THE ENCLOSURE GROUND BAR. ALSO, AND IN ADDITION TO ITEMS 625 AND 725, AND PER CITY OF DUBLIN SPECIFICATIONS, THIS ITEM SHALL ALSO INCLUDE A "CAD" WELD WIRE CONNECTION AT THE GROUND RODS.

THE COST OF THE 3/4" CONDUITS AND WELD WIRE CONNECTIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

REUSE OF EXISTING PAVERS

THE CITY WILL ALLOW THE REUSE OF EXISTING BRICK PAVERS THAT ARE REMOVED AS PART OF THIS PROJECT, PROVIDED THAT THE PAVERS ARE NOT CRACKED OR DAMAGED BEYOND NORMAL WEAR. ALL OTHER REQUIREMENTS OF THE ITEM SPECIAL-PAVERS SHALL APPLY FOR INSTALLATION OF THE REUSED PAVERS. IF EXISTING PAVERS ARE REUSED, THE PAVERS MUST BE CLEAN OF DIRT AND DEBRIS PRIOR TO INSTALLATION ON THE BITUMINOUS SETTING BED. RE-USE OF PAVERS SHALL BE INCIDENTAL TO THE COST BID FOR THIS PROJECT.

ITEM SPECIAL PAVERS

IT IS THE INTENT OF THIS ITEM THAT IF ANY BRICK PAVER INTENDED FOR REUSE IS CRACKED OR DAMAGED BEYOND NORMAL WEAR, IT SHALL BE REPLACED WITH A NEW PAVER. THE BRICK SHALL BE BELDEN BRAND BELCREST 530 S (2-1/4" X 3-5/8" X 7-5/8"). A TOTAL OF THIRTY (30) BRICKS ARE CARRIED TO THE GENERAL SUMMARY FOR BIDDING PURPOSES. BRICKS NOT USED IN THE COMPLETED INSTALLATION SHALL BE TRANSPORTED TO 5800 SHIER RINGS ROAD, DUBLIN OHIO 43016.

ITEM SPECIAL - EXPANSION MATERIAL

FULL DEPTH EXPANSION MATERIAL ONE HALF (1/2) INCHES THICK CONFORMING TO ASTM D 1752, TYPE 1 (RECYCLED RUBBER EXPANSION MATERIAL) SHALL BE UTILIZED WHERE NEW WORK MEETS EXISTING WALK, CURBS OR STRUCTURES. FIBROUS TYPE EXPANSION MATERIAL IS NOT TO BE USED.

THE COST AND INSTALLATION OF THIS MATERIAL SHALL BE INCIDENTAL TO THE COST OF THE FOUNDATION.

GENERAL NOTES

W. BRIDGE ST/ U.S. 33/S.R. 161
SCHOOL ZONE IMPROVEMENTS

DATE: 11/20/2018 10:48:00 AM BY: JPH/STP

ITEM 625 POWER SERVICE, AS PER PLAN

ELECTRIC POWER SHALL BE OBTAINED FROM A.E.P. AT THE LOCATION INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 120/240 VOLTS AND SHALL BE UNMETERED. THE POWER SOURCE IS THE SAME AS USED FOR THE OVERHEAD LIGHTED SIGN DESIGNATED FOR REMOVAL.

POWER SERVICE SHALL ENTAIL REUSE OF EXISTING OVERHEAD SERVICE CABLE, AND CONNECTION OF NEW POWER CABLE AT THE LOCATION SHOWN IN THE PLANS. THE POWER CABLE SHALL BE ROUTED DOWN A RISER AND UNDERGROUND IN A SEPARATE CONDUIT TO THE DISCONNECT SWITCH ON THE MAST ARM SUPPORT. FLEX CONDUIT SHALL BE USED INSIDE THE MAST ARM SUPPORT. THE COST OF THE FLEX CONDUIT SHALL BE INCIDENTAL TO THE COST BID FOR THIS ITEM.

THE DISCONNECT SWITCH SHALL BE STAINLESS STEEL. THE DISCONNECT SWITCH AND ENCLOSURE SHALL EACH INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660 WITH LOCK BODY OF BRONZE OR BRASS. ALL PADLOCKS SHALL USE THE SAME KEY AND FOUR KEYS SHALL BE GIVEN TO THE CITY.

PAYMENT SHALL BE MADE AT THE PRICE BID PER EACH, COMPLETE AND IN PLACE, ALL CONNECTIONS TESTED AND ACCEPTED.

ITEM 625 PLASTIC CAUTION TAPE, AS PER PLAN

THREE (3)-INCH YELLOW PLASTIC CAUTION TAPE SHALL BE INSTALLED OVER ALL NEW CONDUIT OUTSIDE OF DRIVEWAYS AND ROADWAYS, PER CITY SPECIFICATIONS.

ITEM 625 TRENCH, AS PER PLAN

IN THE EVENT BEDROCK SHALLower THAN 2' IS ENCOUNTERED FOR A MAJORITY OF THE TRENCH LENGTH, THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE CITY TO INSTALL CONDUIT AT A SHALLower DEPTH

ITEM 625 CONDUIT, MISC.: REMOVE CONDUIT

THIS ITEM SHALL ENTAIL REMOVAL OF EXISTING CONDUIT RELATED TO THE EXISTING SCHOOL FLASHER. EXISTING CONDUIT UNDER PAVED AREAS SHALL REMAIN. THIS ITEM SHALL ALSO INCLUDE REPLACEMENT OF BACKFILL, TOPSOIL, AND SEEDING.

ITEM 630 SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN RIGID MOUNT

A RIGID MOUNT ASSEMBLY SHALL BE PROVIDED FOR THE OVERHEAD WIRED SIGN. THE HANGER ASSEMBLY SHALL BE FACTORY PAINTED BLACK TO MATCH THE SIGN SUPPORT. THE CONTRACTOR SHALL SUBMIT CUT SHEETS AND PAINT CHIP SAMPLES TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE ASSEMBLY(S). ADDITIONAL TOUCH-UP PAINT SHALL BE PROVIDED TO APPLY TO THE SURFACE OF THE ASSEMBLY THAT MAY BE MARRED OR SCRATCHED DURING THE COURSE OF INSTALLATION.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID, COMPLETE AND IN PLACE.

ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN

IN ADDITION TO ITEM 630, THE BANDING SHALL BE FACTORY PAINTED BLACK TO MATCH THE SIGN SUPPORT. THE MANUFACTURER SHALL UTILIZE POWDER COATING TO MAXIMIZE ADHERENCE OF THE PAINT TO THE EXTERIOR SURFACE OF THE STAINLESS STEEL BANDING. ADDITIONAL TOUCH-UP PAINT SHALL BE PROVIDED TO APPLY TO THE SURFACE OF THE BANDING THAT MAY BE MARRED OR SCRATCHED DURING THE COURSE OF INSTALLATION.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID, COMPLETE AND IN PLACE.

ITEM 631 SCHOOL SPEED LIMIT SIGN ASSEMBLY, AS PER PLAN

SCHOOL FLASHER ASSEMBLY SHALL BE RIGID MOUNT TO THE MAST ARM AS DETAILED IN THESE PLANS, AND SERVICED BY 120 VAC, WITH AN ASSOCIATED DUAL DISPLAY DRIVER FEEDBACK RADAR SIGN THAT WILL BE POLE MOUNTED. THE SCHOOL SPEED LIMIT SIGN SHALL INCLUDE TWO-12" POLYCARBONATE YELLOW OUTBOARD LED BEACONS, PLUS ONE-12" LED BEACON FACING INTO THE SCHOOL ZONE AS AN INDICATOR THAT THE FLASHERS ARE ON.

THIS SYSTEM SHALL INCLUDE A FLASHER CABINET, 16X14X12, ELTEC BRAND NTC-17E-AC FIELD PROGRAMMABLE TIME CLOCK, OR APPROVED EQUAL, WITH 4 RELAY OUTPUTS TO PROVIDE TIME OF DAY CONTROL/PROGRAMMING TO THE SCHOOL FLASHERS AND DUAL DRIVER FEEDBACK SIGN, SURGE PROJECTION, WIRED BACK PANEL, NEMA FLASHER, AND DOCUMENTATION.

THE CABINET EXTERIOR SHALL BE POWDER COATED BLACK TO MATCH THE SIGNAL SUPPORT. STANDARD DOCUMENTATION SHALL BE INCLUDED IN THE CABINET ASSEMBLY, AS WELL AS A DIGITAL COPY MADE AVAILABLE TO THE CITY.

PAYMENT SHALL BE AT THE UNIT PRICE BID, COMPLETE AND IN PLACE, ALL CONNECTIONS TESTED AND ACCEPTED.

ITEM 631 CHANGEABLE MESSAGE SIGN, LIMITED MESSAGE, AS PER PLAN

THIS ITEM SHALL ENTAIL INSTALLATION OF AN RU2 FAST MODEL 400 LED DRIVER FEEDBACK RADAR SIGN, OR APPROVED EQUAL. THE SIGN SHALL BE DRIVEN BY THE TIME CLOCK OUTPUT AND THE FEEDBACK SIGN CONTROLLER SHALL BE MOUNTED ON THE POLE. THE SIGN CONTROLLER SHALL BE PROGRAMMED TO OPERATE DURING SCHOOL 'ON FLASH' TIMES. THE DUAL DISPLAY SHALL HAVE A VARIABLE SPEED LIMIT SECTION, TO CHANGE ON A TIME OF DAY BASIS. THE SYSTEM SHALL ALSO ALLOW THE FEEDBACK ('YOUR SPEED') PORTION OF THE SIGN TO BE TURNED ON AND OFF INDEPENDENTLY OF THE OTHER SIGNING FUNCTIONS.

THE LED'S ON THE SIGN'S SPEED LIMIT SECTION SHALL BE WHITE. THE LED'S ON THE 'YOUR SPEED' SHALL BE AMBER.

THE CABINET EXTERIOR SHALL BE POWDER COATED BLACK TO MATCH THE SIGNAL SUPPORT. STANDARD DOCUMENTATION SHALL BE PROVIDED TO THE CITY.

PAYMENT SHALL BE AT THE UNIT PRICE BID, COMPLETE AND IN PLACE, ALL CONNECTIONS TESTED AND ACCEPTED.

ITEM 631 CHANGEABLE MESSAGE SIGN, LIMITED MESSAGE, AS PER PLAN 5'X 5'

THIS ITEM SHALL ENTAIL INSTALLATION OF A 2-MESSAGE, 1-WAY LED BLANK OUT SIGN. ONE MESSAGE SHALL READ "SPEED LIMIT 25" WITH UP ARROW (WHITE AND AMBER ILLUMINATION); AND THE SECOND MESSAGE SHALL READ "SCHOOL" "SPEED LIMIT 20" WITH WHITE AND AMBER ILLUMINATION). THE SIGN SHALL BE NATIONAL SIGN AND SIGNAL BRAND, OR APPROVED EQUAL.

THIS ITEM SHALL ALSO INCLUDE ALL WIRING IN THE SIGNAL CONTROLLER CABINET, AND ROUTING OF WIRING IN EXISTING CONDUIT.

THE MESSAGES SHALL BE FORMED BY ROWS OF LED PIXELS. AMBER ILLUMINATION SHALL BE USED FOR THE WORD "SCHOOL", THE SCHOOL BORDER, AND THE DIAMOND SIGN OUTLINE. ALL OTHER CHARACTERS AND GRAPHICS SHALL BE WHITE ILLUMINATION.

LETTER SIZING SHALL BE AS FOLLOWS FOR MESSAGE 1:
-SPEED LIMIT-3"
-25-7 1/2 "
-"UP" ARROW-BORDERLINE ROWS OF WHITE LED'S.
LETTER SIZING SHALL BE AS FOLLOWS FOR MESSAGE 2:
-SCHOOL-5" (AMBER)
-SPEED LIMIT-5 " (WHITE)
-20-12" (WHITE)

DIMMING WITH PHOTOCCELL SHALL NOT BE PROVIDED.

THE SIGN SHALL BE POWERED BY 120 VAC. THIS ITEM SHALL INCLUDE THREE (3) HORIZONTAL Z BARS FOR USE IN MOUNTING TO THE PEDESTAL POLE, AND ALL MISCELLANEOUS POLE MOUNTING HARDWARE, MATERIALS, AND LABOR. THE SIGN HOUSING SHALL BE WET PAINTED GLOSS BLACK TO MATCH THE COLOR OF THE PEDESTAL SUPPORT.

ITEM 631 REMOVAL OF SIGNS WIRED, AS PER PLAN

ALL EXISTING LIGHTED TRAFFIC SIGNING EQUIPMENT DESIGNATED FOR REMOVAL SHALL BECOME PROPERTY OF THE CITY OF DUBLIN, INCLUDING THE SUPPORT ASSEMBLY, LIGHTED SIGNS, TIMER WITH ENCLOSURE, AND FLASHERS. THE CONTRACTOR SHALL CAREFULLY TRANSPORT THESE ITEMS TO 5800 SHIER RINGS ROAD, DUBLIN OHIO 43016, AND CAREFULLY UNLOAD AND STORE THE EQUIPMENT AS DIRECTED. ANY ITEMS SPECIFICALLY DESIGNATED AS "UNUSABLE" BY THE CITY SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, REMOVE SIGNAL FOUNDATION

THIS ITEM SHALL ENTAIL REMOVAL OF THE ENTIRE MAST ARM SUPPORT FOUNDATION. UPON REMOVAL OF THE FOUNDATION THE CONTRACTOR SHALL USE ITEM 304 COMPACTED BACKFILL, TOP SOIL AND SEEDING TO RESTORE THE AREA TO MATCH EXISTING GRADE. THE COST OF BACKFILL, SOIL, SEEDING, AND LABOR ARE INCIDENTAL TO THE COST BID FOR THIS ITEM.

ITEM 632 CONDUIT RISER, 2" DIAMETER, AS PER PLAN

IT IS THE INTENT OF THIS ITEM THAT POWER CABLE BE ROUTED FROM THE OVERHEAD SERVICE CABLE SHALL BE INSTALLED ON THE UTILITY POLE INDICATED IN THE PLANS. THIS ITEM SHALL ALSO INCLUDE REMOVAL OF AN EXISTING RISER AND POWER CABLE CURRENTLY SERVING THE EXISTING SCHOOL ZONE FLASHER DESIGNATED FOR REMOVAL. THE COST OF REMOVING THE EXISTING RISER AND CABLE SHALL BE INCLUDED IN THE COST BID FOR THIS ITEM.

ITEM 632 SIGNAL SUPPORT FOUNDATION, AS PER PLAN
ITEM 632 PEDESTAL FOUNDATION, AS PER PLAN

THE TOP OF THE MAST ARM FOUNDATION SHALL BE 1" ABOVE THE ADJACENT SIDEWALK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOUNDATION ELEVATION PRIOR TO FOUNDATION INSTALLATION. THE COST OF COORDINATION BETWEEN FOUNDATION AND SIDEWALK ELEVATIONS ARE INCIDENTAL TO THE COST BID FOR THIS ITEM.

THE TOP OF THE PEDESTAL FOUNDATION SHALL BE 2" ABOVE FINAL GRADE.

THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE THE EXISTING BRICK PAVERS AFFECTED BY THE FOUNDATION WORK, FOR USE IN THE COMPLETED INSTALLATION.

FULL DEPTH EXPANSION MATERIAL ONE HALF (1/2) INCHES THICK CONFORMING TO ASTM D 1752, TYPE 1 (RECYCLED RUBBER EXPANSION MATERIAL) SHALL BE UTILIZED WHERE NEW WORK MEETS EXISTING WALK, CURBS OR STRUCTURES. FIBROUS TYPE EXPANSION MATERIAL IS NOT TO BE USED. THE COST AND INSTALLATION OF THIS MATERIAL SHALL BE INCIDENTAL TO THE COST OF THE FOUNDATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ANCHOR BOLT CIRCLE, SIZE AND PATTERN MATCH THE DESIGN OF THE SUPPORT BASE.

BEDROCK MAY BE ENCOUNTERED BY THE CONTRACTOR WHILE INSTALLING THE FOUNDATION. THE FOUNDATION OF THE SUPPORT SHALL IN NO CASE BE LESS THAN 7 FEET, BUT SHALL OTHERWISE BE IN CONFORMANCE TO ODOT SPECIFICATIONS REGARDING FOUNDATIONS IN BEDROCK.

PAYMENT SHALL BE AT THE UNIT PRICE BID.

ITEM 203 ROADWAY, MISC.: RELOCATE CONCRETE PLANTER

IT IS THE INTENT OF THIS ITEM THAT AN EXISTING CONCRETE PLANTER USED FOR LANDSCAPING SHALL BE RELOCATED WEST TO THE LOCATION INDICATED ON THE PLAN, SO THAT THE MAST ARM SUPPORT CAN BE INSTALLED AT THE EXISTING LOCATION OF THE PLANTER. THE CONTRACTOR SHALL REPLACE ANY LANDSCAPING IN THE PLANTER DAMAGED DURING THE COURSE OF RELOCATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPLACING THE PLANTER IN THE EVENT THE PLANTER IS DAMAGED OR CRACKED DURING THE PROCESS OF RELOCATION.

PAYMENT SHALL BE AT THE LUMP SUM BID FOR THIS ITEM.

ITEM 632 SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN

ITEM 632 PEDESTAL, MISC.: PEDESTAL, 14'

THE MAST ARM SUPPORT, MAST ARM, AND PEDESTAL POLE SHOWN ON THE PLANS SHALL BE ORNAMENTAL TYPE NON-FLUTED TAPERED POLE (ARM LENGTH AS DESIGNATED ON THE PLANS) WITH AN ORNAMENTAL BASE MANUFACTURED BY VALMONT (DRAWING REFERENCE: HUNTINGTON ACI HN 24AC/BK/10), OR AN APPROVED EQUAL, AND SHALL BE SUPPLIED WITH THE FOLLOWING FEATURES:

1. THE CONTRACTOR SHALL VERIFY THE ANCHOR BOLT CIRCLE, ANCHOR BOLT DIAMETER, AND ORIENTATION PATTERN WITH THE SIGN SUPPORT MANUFACTURER. PAINT CHIP SAMPLES AND SHOP DRAWINGS FOR ALL COMPONENTS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST 7 DAYS PRIOR TO ORDERING MATERIALS.
2. THE POLES AND DESIGN CRITERIA SHALL COMPLY WITH ODOT STANDARDS AND ODOT CMS.
3. THE CONTRACTOR AND MANUFACTURER SHALL BE RESPONSIBLE FOR VERIFYING THE POLE DESIGNS, AND SHALL PREPARE SHOP DRAWINGS AND STRUCTURAL DESIGN CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY FOR APPROVAL PRIOR TO SUPPORT FABRICATION.
4. THE POLES, MAST ARM, ORNAMENTAL BASES, FINIALS, SIGN HOUSINGS, AND SIGN BRACKETS SHALL MATCH THE CITY OF DUBLIN STANDARD OF POLE PAINT COLOR FOR HISTORIC DUBLIN (BLACK). PRIOR TO SHIPPING, THE POLES, MAST ARM, ORNAMENTAL BASES, FINIALS, SIGN HOUSINGS, ALL POLE HARDWARE, AND SIGN BRACKETS ATTACHED TO THE POLE SHALL BE FACTORY PRIME COATED AND FINISHED. IF DURING TRANSPORTATION OR INSTALLATION OF THE POLE AND ATTACHMENT ITEMS, OR AT ANY TIME BEFORE FINAL ACCEPTANCE THE PAINTED SURFACES ARE SCRATCHED OR MARRED IN ANY MANNER, THE CONTRACTOR SHALL BE REQUIRED TO APPLY "TOUCHUP" PAINT OF THE SAME TYPE AS SPECIFIED ABOVE TO THE AFFECTED AREAS.
5. THIS ITEM SHALL ALSO INCLUDE ALL FIELD DRILLED COUPLINGS, FITTINGS, AND ATTACHMENT HARDWARE NECESSARY FOR BOLTING THE DISCONNECT SWITCH TO THE SIGN SUPPORT. BLIND HALF COUPLINGS SHALL BE FIELD INSTALLED AND MEET TC-83.10. IT IS ALSO THE INTENT THAT THE COUPLINGS SHALL BE LOCATED IN A MANNER THAT THE COUPLINGS AND FITTINGS WILL BE ABOVE THE TOP OF THE ORNAMENTAL APRON OF THE SIGN SUPPORTS, IN ORDER TO AVOID ANY FIELD DRILLING OF THE ORNAMENTAL APRONS.
6. DECORATIVE FINIALS SHALL BE PROVIDED, BLACK VALMONT CAPITAL FINIAL, OR APPROVED EQUAL.
7. A GFCI OUTLET SHALL BE PROVIDED, AS DETAILED IN THESE PLANS.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID PER EACH, COMPLETE AND IN PLACE.

GENERAL NOTES

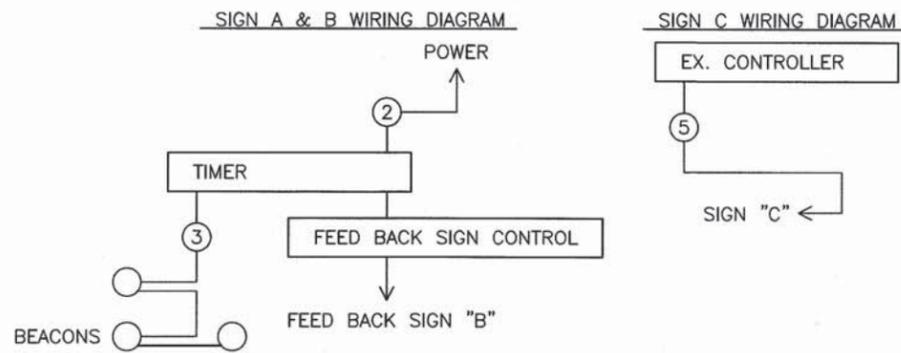
W. BRIDGE ST/U.S. 33/S.R. 161
SCHOOL ZONE IMPROVEMENTS

DATE: 11/20/2018 10:48:28 AM BY: JEFFREY L. FERRIS

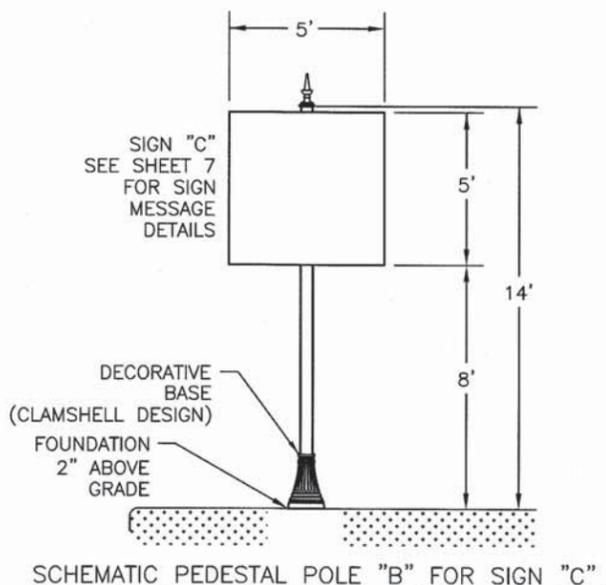
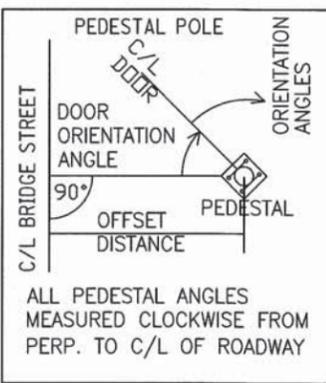
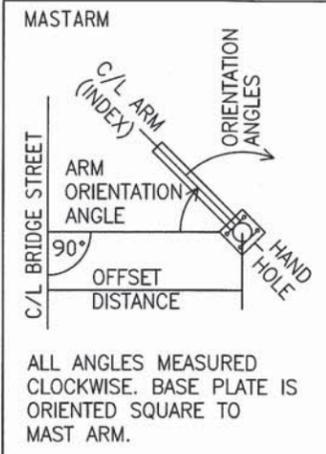
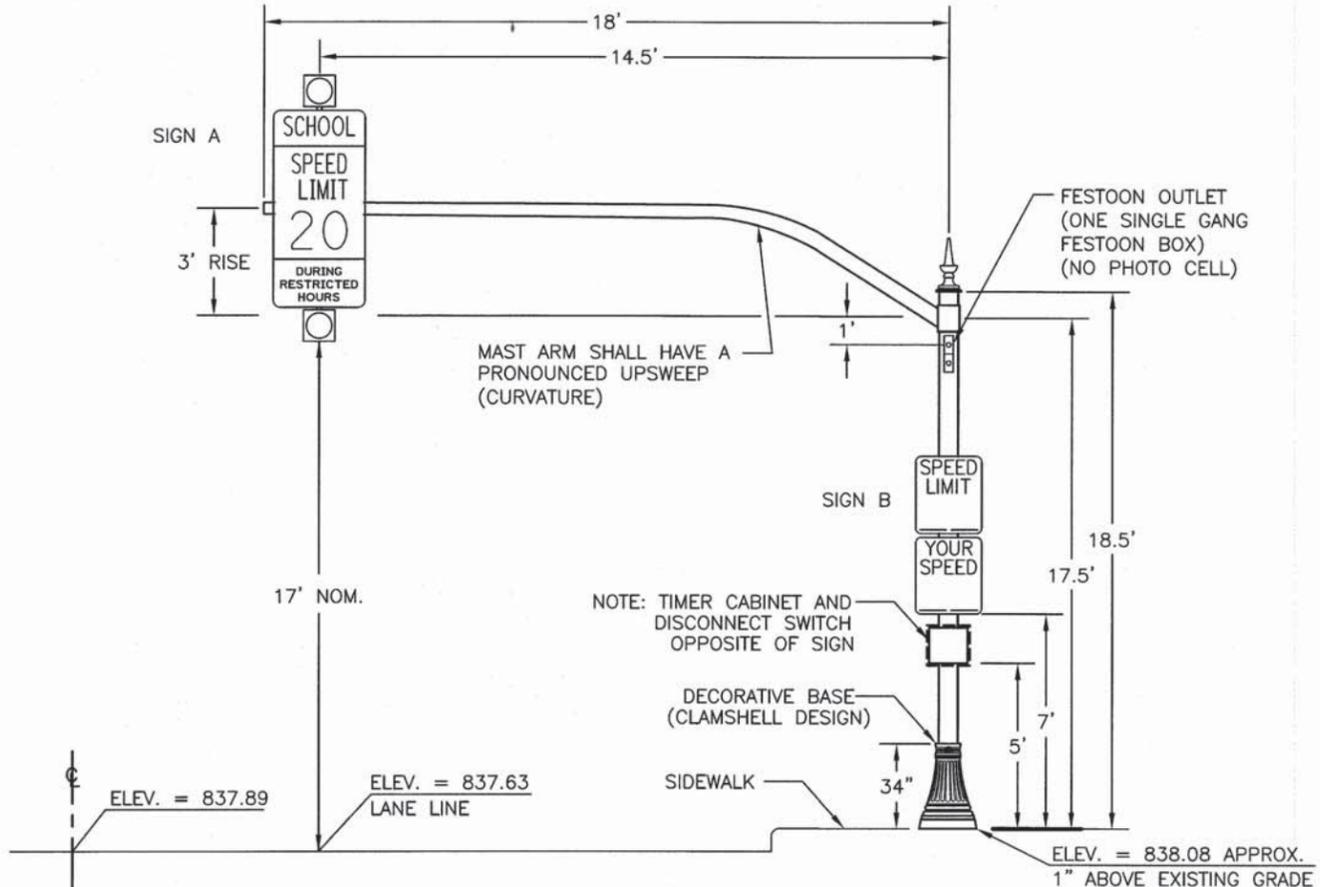
MAST ARM A SUPPORT SCHEDULE AND ORIENTATION

| SUPPORT NO. | SUPPORT SCHEDULE & ORIENTATION | | INDEX FIELD ANGLE | | ANGLES MEASURED FROM MASTARM ARM & PEDESTAL DOOR | | | | | | |
|-------------|--------------------------------|--------------|-------------------|---------|--|---------------------------|--------------------------|---------------|----------------------|------------------------|-------------|
| | POLE* DESIGN NO. | FOUNDATION** | L (FT) | L1 (FT) | MASTARM ARM ANGLE (DEG) | PEDESTAL DOOR ANGLE (DEG) | LIGHTED SIGN ANGLE (DEG) | STREET LIGHTS | HANDHOLE ANGLE (DEG) | SPARE 2" CONDUIT (DEG) | GFCI OUTLET |
| A | 1 | - | 18 | 14.5 | 0° | - | 270° | 90°/270° | 90° | 180° | 180° |
| B | - | 14' | - | - | - | 180° | 90° | - | - | - | - |

* AS PER PLAN - SEE SIGNAL GENERAL NOTES AND DETAILS.
 ** MAST ARM FOUNDATION TO BE 1" ABOVE FINISHED GRADE. PEDESTAL FOUNDATION IN GRASS TO BE 2" ABOVE GRADE. FINAL MAST ARM AND PEDESTAL FOUNDATION ELEVATIONS ARE TO BE FIELD APPROVED BY ENGINEER.
 *** FOR 1/C - SEE SIGNAL SUPPORT DETAILS ALSO.

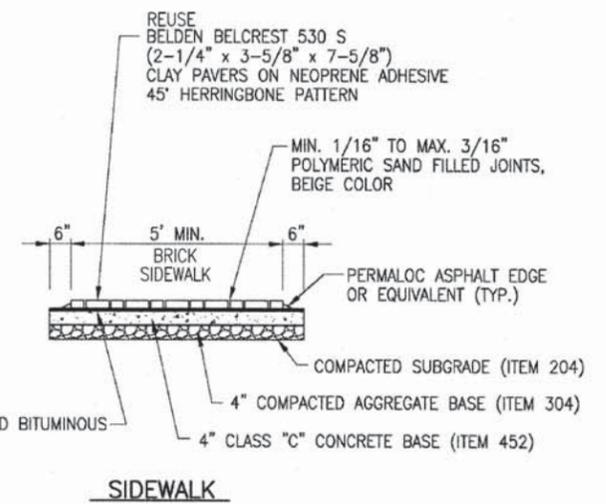


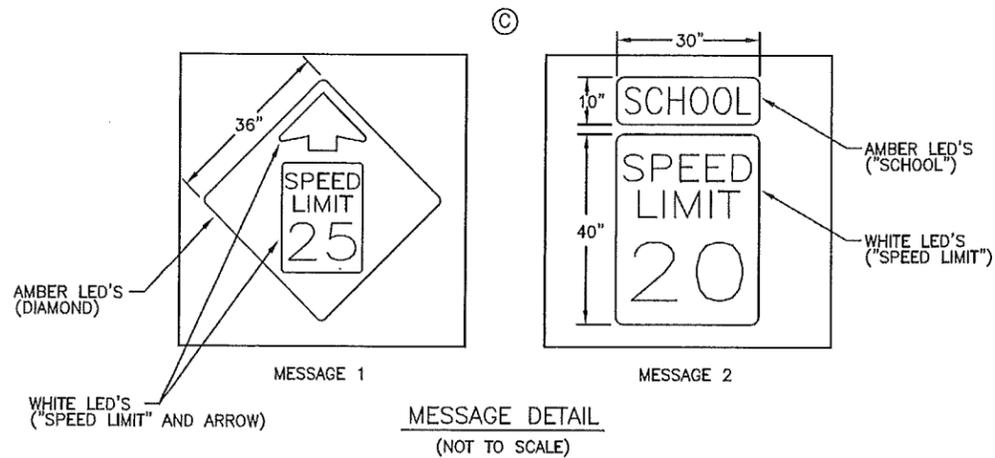
SCHEMATIC OF MAST ARM SUPPORT "A" NOT TO SCALE



GENERAL SUMMARY

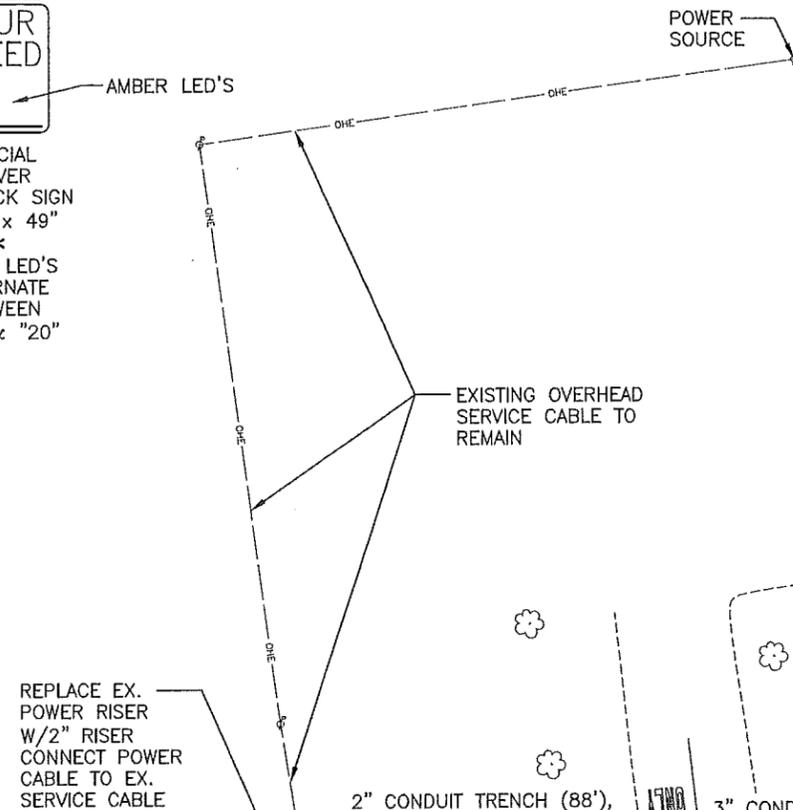
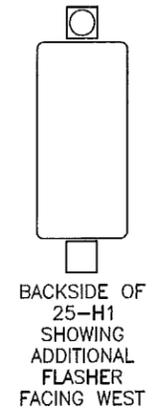
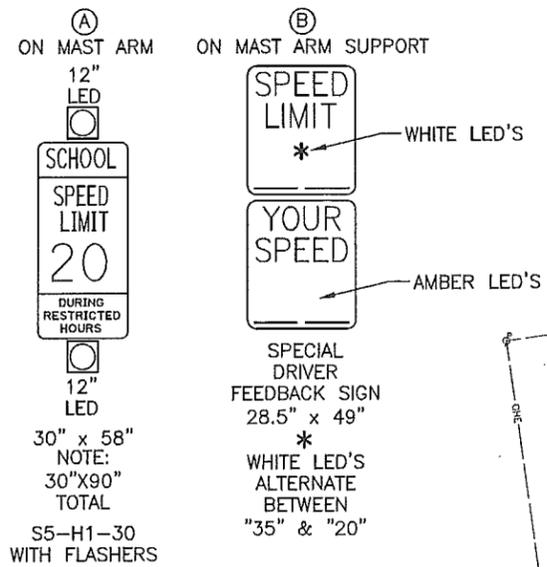
| ITEM | ITEM EXT. | TOTAL | UNIT | DESCRIPTION |
|------|-----------|-------|------|--|
| 614 | 11001 | LS | LS | MAINTAINING TRAFFIC, AS PER PLAN |
| 614 | 11110 | 28 | HR | LAW ENFORCEMENT OFFICER WITH PATROL CAR |
| 623 | 10000 | LS | LS | CONSTRUCTION LAYOUT STAKES |
| 624 | 10000 | LS | LS | MOBILIZATION |
| 203 | 98500 | LS | LS | ROADWAY, MISC.: RELOCATE CONCRETE PLANTER |
| 625 | 25409 | 143 | FT | CONDUIT, 2", 725.051, SCHEDULE 40 |
| 625 | 25505 | 62 | FT | CONDUIT, 3", 725.051, SCHEDULE 40 |
| 625 | 25903 | 12 | FT | CONDUIT, JACKED OR DRILLED, 725.051, AS PER PLAN, 2", SCHEDULE 80 |
| 625 | 25903 | 35 | FT | CONDUIT, JACKED OR DRILLED, 725.051, AS PER PLAN, 4", SCHEDULE 80 |
| 625 | 25903 | 40 | FT | CONDUIT, JACKED OR DRILLED, 725.051, AS PER PLAN, 6", SCHEDULE 80 |
| 625 | 25920 | 175 | FT | CONDUIT, MISC.: REMOVE CONDUIT |
| 625 | 29001 | 114 | FT | TRENCH, AS PER PLAN |
| 625 | 29401 | 16 | FT | TRENCH IN PAVED AREA, AS PER PLAN |
| 625 | 30703 | 2 | EA | PULLBOX, 725.06, 18"x11"x18", AS PER PLAN |
| 625 | 32001 | 3 | EA | GROUND ROD, AS PER PLAN |
| 625 | 36001 | 102 | FT | PLASTIC CAUTION TAPE, AS PER PLAN |
| 630 | 79101 | 1 | EA | SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN RIGID MOUNT |
| 630 | 79501 | 2 | EA | SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN |
| 631 | 90101 | 1 | EA | CHANGEABLE MESSAGE SIGN, LIMITED MESSAGE, AS PER PLAN |
| 631 | 90101 | 1 | EA | CHANGEABLE MESSAGE SIGN, LIMITED MESSAGE, AS PER PLAN, 5'X5' |
| 631 | 93201 | 1 | EA | SCHOOL SPEED LIMIT SIGN ASSEMBLY, AS PER PLAN |
| 631 | 94406 | 1 | EA | REMOVAL OF SIGNS WIRED, AS PER PLAN |
| 632 | 64011 | 1 | EA | SIGNAL SUPPORT FOUNDATION, AS PER PLAN |
| 632 | 64021 | 1 | EA | PEDESTAL FOUNDATION, AS PER PLAN |
| 632 | 67200 | 200 | FT | POWER CABLE, 2 CONDUCTOR, NO. 8 AWG |
| 632 | 70001 | 1 | EA | POWER SERVICE, AS PER PLAN |
| 632 | 70401 | 1 | EA | CONDUIT RISER, 2" DIAMETER, AS PER PLAN |
| 632 | 80103 | 1 | EA | SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN |
| 632 | 90010 | 1 | EA | PEDESTAL, MISC.: PEDESTAL, 14' |
| 632 | 90020 | 1 | EA | REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVE SIGNAL FOUNDATION |
| 632 | 90020 | 1 | EA | SUPPORT FOUNDATION REMOVED |
| 638 | 10800 | 1 | EA | VALVE BOX ADJUSTED TO GRADE |
| SPEC | - | 30 | EA | PAVERS |





- NOTES:
1. MESSAGES FORMED BY ROWS OF HIGH INTENSITY LED'S.
 2. MESSAGES SHALL COMPLETELY BLANK OUT WHEN NOT ENERGIZED.

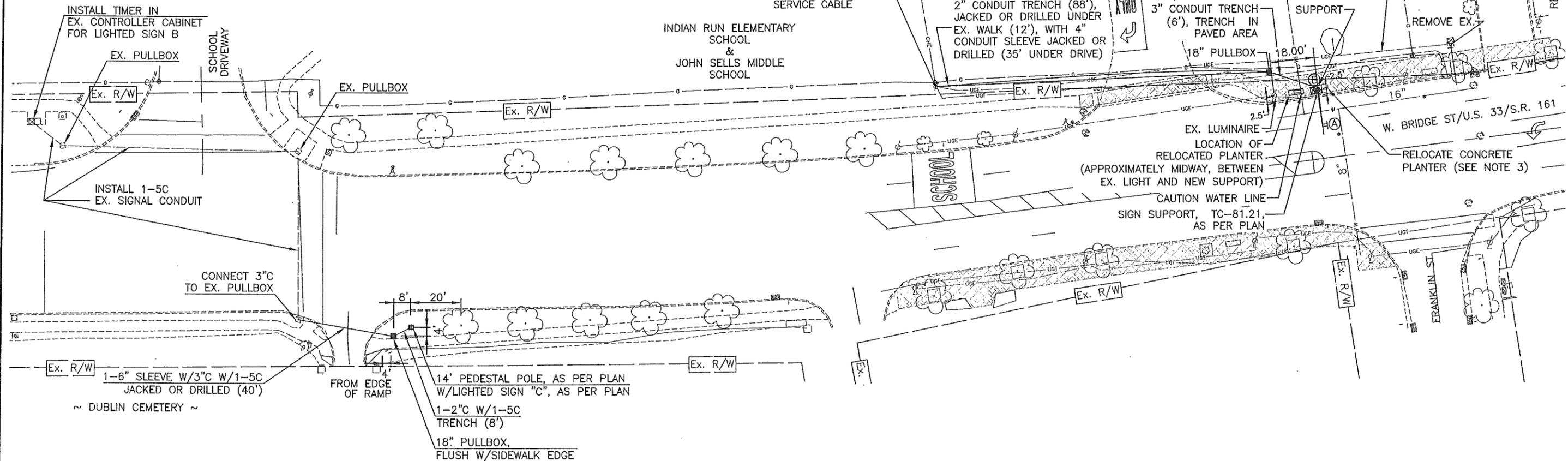
LIGHTED SIGN DETAILS SOUTHEAST OF SCHOOL DRIVEWAY



INDIAN RUN ELEMENTARY SCHOOL & JOHN SELLS MIDDLE SCHOOL

DUBLIN CITY SCHOOLS ADMINISTRATION OFFICE

J. LIU RESTAURANT



INDIAN RUN ELEMENTARY AND JOHN SELLS MIDDLE SCHOOL FLASHER

W. BRIDGE ST/U.S. 33/S.R. 161 SCHOOL ZONE IMPROVEMENTS

