

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

BP OIL  
EAST 49TH ST.  
CLEVELAND, OH 44109  
PH: 216-906-6374  
ATTN: DAN PLEVNY

BUCKEYE PIPELINE CO.  
5002 BUCKEYE RD.  
EMMAUS, PA 18049  
PH: 484-232-4303  
ATTN: DONALD SAMALA

CEI-ILLUMINATING CO.  
6896 MILLER RD.  
BRECKSVILLE, OH 44141  
PH: 440-717-6845  
ATTN: MARK ROBINSON

CITY OF CLEVELAND  
DIVISION OF CLEVELAND PUBLIC POWER  
1300 LAKESIDE AVE.  
CLEVELAND, OH 44114  
PH: 216-664-3922  
ATTN: CHRIS HIRZEL

CITY OF CLEVELAND  
DIVISION OF WATER  
1201 LAKESIDE AVE.  
CLEVELAND, OH 44114  
PH: 216-664-2444  
ATTN: GUY SINGER

CITY OF CLEVELAND  
DIVISION OF WATER POLLUTION CONTROL  
12302 KIRBY RD.  
CLEVELAND, OH 44108  
PH: 216-664-3785  
ATTN: RACHID ZOGHAIB

DOMINION EAST OHIO GAS COMPANY  
320 SPRINGSDALE DR.  
FAIRLAWN, OH 44333  
PH: 330-864-2424  
ATTN: PAUL EMERY

MCI-VERIZON  
OSP NATIONAL SUPPORT/INVESTIGATIONS  
2400 NORTH GLENNVILLE  
RICHARDSON, TX 75082  
PH: 972-729-6016  
ATTN: DEAN BOYERS

OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 12 OFFICE - LIGHTING  
5500 TRANSPORTATION BLVD.  
GARFIELD HEIGHTS, OH 44125  
PH: 216-584-2260  
ATTN: WILLIAM GERBER

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**UTILITIES (CONTINUED)**

FIRST ENERGY HAS MULTIPLE 345,000 VOLT TRANSMISSION FACILITIES LOCATED WITHIN THE PROJECT AREA AS IDENTIFIED IN THE PLANS. THE FOLLOWING IS NOTED BY FIRST ENERGY:  
- NO DAY OR NIGHT PARKING OF VEHICLES OR EQUIPMENT SHALL OCCUR BENEATH THE LINES OR WITHIN FIRST ENERGY/OHIO EDISON EASEMENTS.  
- CONTACT WITH OVERHEAD WIRES DOES NOT NEED TO OCCUR TO HAVE ELECTRICITY FLOW IN UNWANTED DIRECTIONS CAUSING INJURY OR DEATH.  
- USE OF HIGH VOLTAGE SIGNAGE TO WARN WORKERS OF THE PRESENCE OF OVERHEAD CONDUCTORS IS RECOMMENDED.  
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW AND MAINTAIN ALL OSHA REUQUIRED CLEARANCES WHEN WORKING NEAR OVERHEAD WIRES. THE OVERHEAD WIRES SHOULD BE CONSIDERED ENERGIZED AT ALL TIMES.

**EXISTING PLANS**

EXISTING PLANS ENTITLED CUY-176-10.13, CUY-480-12.76, CUY-480-15.22, CUY-480-15.55, AND CUY-480-15.60 MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 5 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PROJECT CONTROL**

POSITIONING METHOD: ODOT VRS DATA COLLECTION PER 502.2E. OF SURVEY MANUAL  
MONUMENT TYPE: PROJECT CONTROL MONUMENT TYPE B VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID18

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE, North ZONE (3401)  
ORIGIN OF SCALE (X,Y): EASTING (X): 0 NORTHING (Y): 0  
COMBINED SCALE FACTOR: 1.000000000

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED**

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY DEPARTMENT FORCES.

PAYMENT FOR ALL OF THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

**PROTECTION OF RIGHT-OF-WAY LANDSCAPING**

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEET 18, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

**ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, PG64-22**

THIS ITEM SHALL MEET ALL REQUIREMENTS OF CMS SECTIONS 302 AND 401, EXCEPT THE MAXIMUM LIFT THICKNESS SHALL BE 3" AND COMPACTION WITH PNEUMATIC TIRE ROLLERS IS NOT REQUIRED.

**ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN**

THIS ITEM SHALL MEET ALL REQUIREMENTS OF CMS SECTIONS 401, 442, AND 449 EXCEPT COMPACTION WITH PNEUMATIC TIRE ROLLERS IS NOT REQUIRED.

**ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, PG70-22M**

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINIMUM 60% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE. AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO ACBFS OR TRAP ROCK FROM ONTARIO.

TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION.

WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.2 PERCENT. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF C&MS 442.

IN ADDITION TO THE JOINT SEALING REQUIREMENTS SPECIFIED IN 401.17, THE CONTRACTOR SHALL SEAL THE PERIMETER OF ALL RUMBLE STRIP PAVEMENT REPLACEMENT AREAS. THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, PG70-22M

**ITEM 618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN**

FOR ALL FREEWAYS, THE LATERAL POSITION OF EDGE LINE RUMBLE STRIPS SHOWN IN SCD BP-9.1 IS REVISED AS FOLLOWS:

1. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS LESS THAN 6': DIMENSIONS A AND B ARE EQUAL TO 6".
2. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS 6' TO 12': DIMENSIONS A AND B ARE EQUAL TO HALF THE SHOULDER WIDTH MINUS 12".
3. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS GREATER THAN 12': DIMENSIONS A AND B ARE EQUAL TO 5'.

**ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER**

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL WORK SHALL BE PERFORMED WITHIN ODOT LA R/W, NO WORK SHALL BE PERFORMED WITHIN RAILROAD R/W. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM SPECIAL, PIPE CLEANOUT, 24" AND UNDER 320 FT

**ITEM 611 - 21" CONDUIT, TYPE B, AS PER PLAN**

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS FOR THE 611 PIPE CULVERTS, SEWERS, DRAINS AND DRAINAGE STRUCTURES SPECIFICATION EXCEPT THAT THE MATERIAL TYPES FOR THIS INSTALLATION SHALL BE EITHER 706.02, REINFORCED CONCRETE CIRCULAR PIPE OR 707.33, CORRUGATED POLYETHYLENE SMOOTH LINED PIPE.

DESIGN AGENCY



DESIGNER  
**KMC**

REVIEWER  
SSR 06-22-23

PROJECT ID  
106761

SHEET TOTAL  
4 | 22