

**UTILITIES**

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

TELECOM:  
CINCINNATI BELL (UNDERGROUND)  
221 E. 4TH ST, BLDG. 121-900  
CINCINNATI, OH 45201  
DERRICK BROWN  
DERRICK.BROWN@CINBELL.COM  
PHONE: 513-566-3154

CINCINNATI BELL (AERIAL)  
209 W. 7TH ST, BLDG. 121-900  
CINCINNATI, OH 45202  
DORIAN JOHNSON  
PHONE: 513-566-5120

CHARTER COMMUNICATIONS/SPECTRUM  
(FORMERLY TIME WARNER CABLE)  
10920 KENWOOD ROAD  
BLUE ASH, OH 45242  
JIM O'REILLY  
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM  
PHONE: 513-386-5483

MCI/VERIZON  
120 RAVINE STREET  
AKRON, OHIO 44303  
allan.guest@verizon.com  
PHONE: 330-253-8267  
marcus.roof@verizon.com  
PHONE: 513-614-0819

GAS:  
DUKE ENERGY - GAS  
139 EAST 4TH ST., ROOM 460A  
CINCINNATI, OH 45202  
MARK BRANSCUM  
MARK.BRANSCUM@DUKE-ENERGY.COM  
PHONE: 513.287.2517

ELECTRIC:  
DUKE ENERGY - ELECTRIC (DISTRIBUTION)  
2010 DANA AVE  
CINCINNATI, OH 45207  
AARON WRIGHT  
AARON.WRIGHT@DUKE-ENERGY.COM  
PHONE: 513-458-3856

DUKE ENERGY - ELECTRIC (TRANSMISSION)  
2010 DANA AVE  
CINCINNATI, OH 45207  
TIM MEYER  
TIM.MEYER@DUKE-ENERGY.COM  
PHONE: 513-287-1266

SEWER:  
CINCINNATI METROPOLITAN SEWER DISTRICT  
1600 GEST STREET  
CINCINNATI, OH 45204  
ROB FRANKLIN  
MSDUTILITYREVIEW@CINCINNATI-OH.GOV  
PHONE: 513-557-7188

CITY OF SHARONVILLE - PUBLIC WORKS  
SHARONVILLE CITY HALL  
10900 READING ROAD, ROOM 160  
SHARONVILLE, OHIO 45241  
JOSEPH KEMPE  
JKEMPE@CITYOFSHARONVILLE.COM  
PHONE: 513-563-1177

**UTILITIES (CONTINUED)**

WATER:  
GREATER CINCINNATI WATER WORKS  
4747 SPRING GROVE AVE  
CINCINNATI, OHIO 45232  
JON HUNSEDER  
JON.HUNSEDER@GCWW.CINCINNATI-OH.GOV  
PHONE: 513-591-5056

SOUTHWESTERN OHIO WATER COMPANY  
1300 LINDY AVE.  
LOCKLAND, OHIO 45215  
MICHAEL C. FLAVIN, PE  
MIKE.FLAVIN@FUSE.NET  
PHONE: 513-403-9340

VILLAGE OF LOCKLAND  
590 NORTH WAYNE AVENUE  
LOCKLAND, OHIO 45215  
BRIAN KEITH  
BKEITH@LOCKLANDOH.ORG  
PHONE: 513-502-1958

VILLAGE OF GLENDALE  
30 VILLAGE SQUARE  
GLENDALE, OHIO 45246  
KEVIN BELL  
KBELL@GLENDALEOHIO.ORG  
PHONE: 513-771-7200

**UTILITY NOTIFICATION**

THE CONTRACTOR SHALL NOTIFY MIKE FLAVIN WITH SOUTHWESTERN OHIO WATER COMPANY AT 513-403-9340 AT LEAST TWO (2) WEEKS PRIOR TO ANY WORK NEAR SUPPORTS SP-3, PS-4, AND PS-5 SO THEY CAN PROPERLY LOCATE THE NEARBY WATERMAIN.

THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES AT LEAST FIVE (5) WORKING DAYS BEFORE ANY CONSTRUCTION WORK IS PERFORMED.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING WORK, AT (800) 362-2764. NON-MEMBERS MUST BE CONTACTED SEPARATELY.

**COORDINATION WITH RAILROAD**

THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH NORFOLK SOUTHERN RAILROAD ON THIS PROJECT.

THE CONTRACTOR WILL NEED TO COORDINATE WITH NORFOLK SOUTHERN TO DETERMINE THE METHOD AND SCHEDULE OF INTERCONNECTION. AT MINIMUM, THE CONTRACTOR SHALL CONNECT THE PROVIDED INTERCONNECT CABLE TO THE TRAFFIC SIGNAL CONTROL CABINET. IF THE PROVIDED CABLE LENGTH IS NOT ADEQUATE, THE CONTRACTOR SHALL REPLACE IT WITH ONE CONTINUOUS CABLE OF ADEQUATE LENGTH TO COMPLETE THE CONNECTION BETWEEN THE TRAFFIC SIGNAL CONTROLLER CABINET AND THE RAILROAD BUNGALOW IN ACCORDANCE WITH SS819. SPLICES ARE NOT ACCEPTABLE.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE TABLE BELOW FOR PROJECT CONTROL INFORMATION.

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

**PROJECT CONTROL**

POSITIONING METHOD: ODOT VRS  
MONUMENT TYPE: 5/8" IRON BAR

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD 88  
GEOID: GEOID 2012A (CONUS)

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD 1983 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC TWO PARALLEL COORDINATE SYSTEM: US STATE PLANE 1983 (2011), OHIO NORTH ZONE  
COMBINED SCALE FACTOR: 0.9999153289  
ORIGIN OF COORDINATE SYSTEM: 0,0

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. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

**COORDINATION OF ACTIVITIES**

ALL WORK SHALL BE COORDINATED WITH THE CITY OF SHARONVILLE, DUKE ENERGY AND ANY OTHER UTILITIES IMPACTED ON THE PROJECT. NOTIFICATION SHALL BE GIVEN TO THE CITY OF SHARONVILLE AT LEAST 24 HOURS PRIOR TO ANY AND ALL SCHEDULED WORK OR TESTING REQUIRING THEIR INSPECTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE UNDERGROUND CONSTRUCTION ACTIVITIES ON A CONTINUING BASIS WITH EACH OF THE UTILITY AGENCIES THAT HAVE FACILITIES IN THE IMMEDIATE VICINITY OF THE PROJECT AREA.

**WORK INSPECTION**

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH 72 HOUR NOTICE OF ANY WORK TO BE PERFORMED AT THE INTERSECTION SITE SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

**RESTORATION OF DISTURBED AREAS**

THE CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPED AREAS, PAVEMENT SURFACES, SIDEWALKS (INCLUDING CURB RAMPS) AND DRIVEWAYS TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING BEFORE THE WORK WAS STARTED. ALL RESTORATION SHALL BE PERFORMED WITH MATERIALS IDENTICAL TO THE EXISTING SURFACE INCLUDING BUT NOT LIMITED TO BITUMINOUS AND CONCRETE PAVEMENT, CONCRETE, SANDSTONE AND BRICK SIDEWALK, INTEGRAL CURB AND SPECIAL SURFACES (COLORED OR TEXTURED) AS ENCOUNTERED. CONCRETE SIDEWALK AND DRIVEWAYS SHALL NOT BE PATCHED, BUT SHALL BE REPLACED IN ENTIRE ORIGINAL SLAB SECTIONS. ALL RESTORATION WORK SHALL BE DONE IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEMS AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL RESTORATION WORK, INCLUDING MATERIALS, EQUIPMENT, LABOR, INCIDENTALS, AND DISPOSAL OF ALL SURPLUS MATERIALS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF UNDERGROUND WORK AND, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

**SIGNAL SUPPORT FOUNDATION ELEVATIONS**

PRIOR TO ORDERING THE MAST ARM THE FOUNDATION SHOULD BE INSTALLED AND LOCATED SO THERE IS NO CONFLICT WITH UTILITIES BOTH UNDERGROUND AND OVERHEAD.

ELEVATIONS SHOWN IN THE PLANS FOR SIGNAL SUPPORT FOUNDATIONS ARE FOR COMPUTATIONAL PURPOSES ONLY. THE ACTUAL ELEVATION OF THE FOUNDATION SHALL BE IN ACCORDANCE WITH SCD TC-21.20 PROVIDED THE EXISTING SLOPE IS LESS THAN 6:1.

AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR GREATER, THE BURIED DEPTH OF FOUNDATION, AS SHOWN IN SCD TC-21.20 SHALL APPLY TO THE LOW SIDE OF THE SLOPE. THE TOP OF THE FOUNDATION SHALL BE SET 2 INCHES ABOVE THE EXISTING SURFACE ON THE HIGH SIDE OF THE SLOPE. THE ADDITIONAL DEPTH OF FOUNDATION NECESSARY TO MEET THESE REQUIREMENTS SHALL BE ADDED TO THE FORMED TOP.

**GUARANTEE**

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL EQUIPMENT INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 120 DAYS FOLLOWING THE SUCCESSFUL COMPLETION OF THE 10 DAY PERFORMANCE TEST.

THE GUARANTEE SHALL COVER ALL TRAFFIC SIGNAL EQUIPMENT, LED LAMPS AND WIRING INSTALLED BY THE CONTRACTOR AT THE INTERSECTION AS PART OF THIS CONTRACT.

CUSTOMARY AND APPLICABLE ODOT SPECIFIED MANUFACTURER'S GUARANTEES FOR THE INSTALLED ITEMS SHALL BE TURNED OVER TO THE CITY FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

**PRIMARY PROJECT CONTROL INFORMATION**

POINT NUMBER	STATION AND OFFSET @ SHARON ROAD		GRID COORDINATES U.S. SURVEY FEET		SCALED COORDINATES U.S. SURVEY FEET		ORTHOMETRIC HEIGHT	DESCRIPTION
	STATION	OFFSET	NORTHING	EASTING	NORTHING	EASTING	(ELEVATION)	
S1	6+41.15	59.14' RT	468183.902	1421193.857	468223.547	1421314.201	581.370	5/8" IRON BAR
S2	6+21.35	398.81' RT	467851.641	1421120.159	467891.258	1421240.497	584.047	MAG NAIL
S3	1+96.47	30.59' LT	468343.250	1420769.208	468382.908	1420889.516	598.205	MAG NAIL
S4	5+46.80	292.30' LT	468545.737	1421156.752	468585.413	1421277.093	585.041	MAG NAIL
S5	-	-	468204.562	1421722.278	468244.209	1421842.667	574.705	MAG NAIL

CALCULATED  
NDE  
CHECKED  
ADL

GENERAL NOTES

HAM-E SHARON RD  
NS

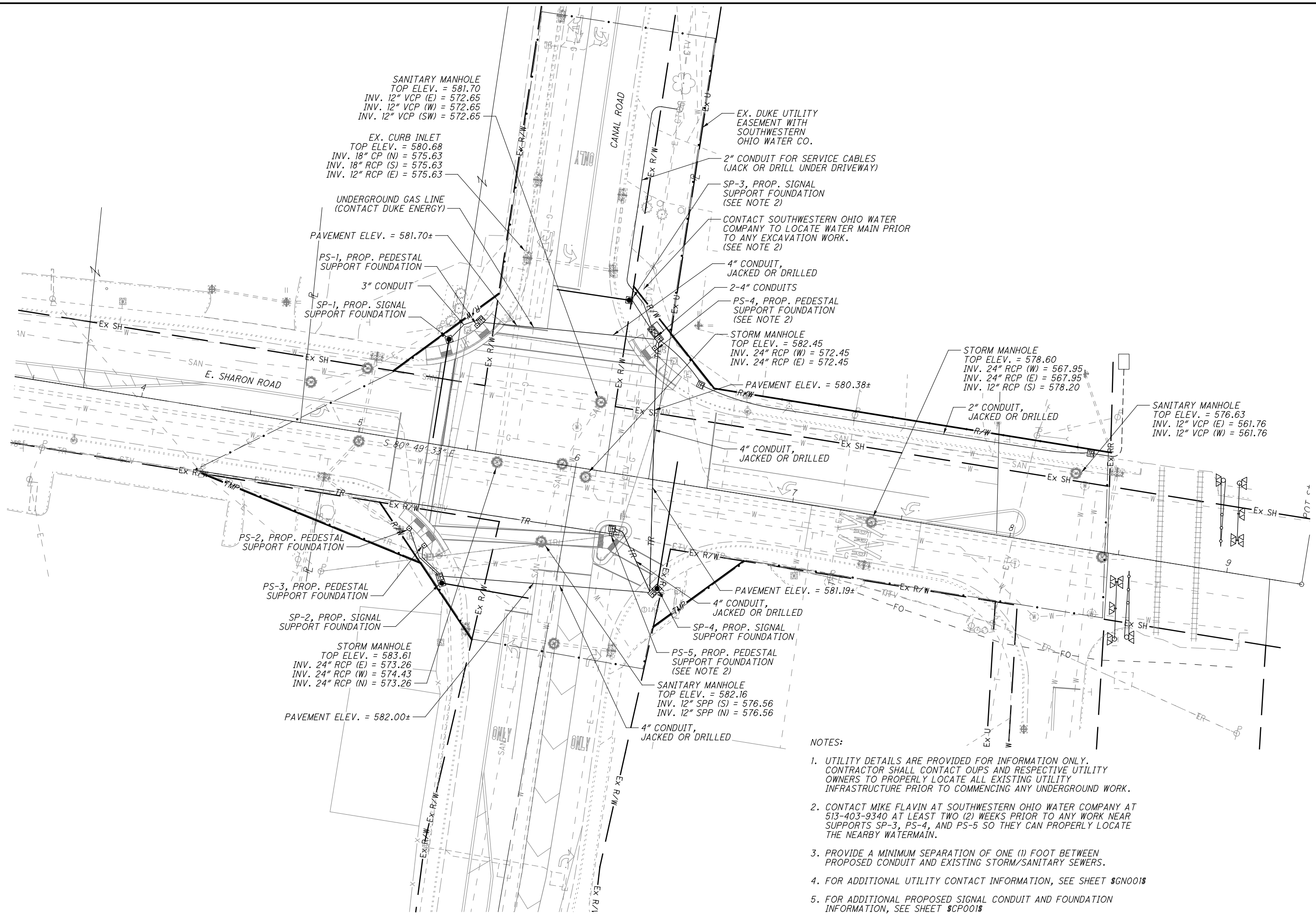
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**UNDERGROUND UTILITY INFORMATION**  
**SHARON RD. & CANAL RD.**

**HAM-E SHARON RD**  
**NS**



**NOTES:**

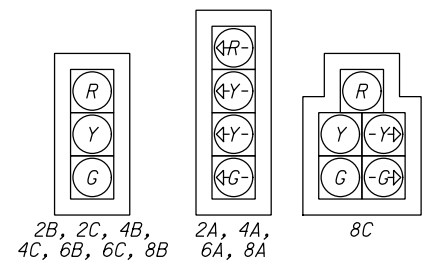
1. UTILITY DETAILS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR SHALL CONTACT OUPS AND RESPECTIVE UTILITY OWNERS TO PROPERLY LOCATE ALL EXISTING UTILITY INFRASTRUCTURE PRIOR TO COMMENCING ANY UNDERGROUND WORK.
2. CONTACT MIKE FLAVIN AT SOUTHWESTERN OHIO WATER COMPANY AT 513-403-9340 AT LEAST TWO (2) WEEKS PRIOR TO ANY WORK NEAR SUPPORTS SP-3, PS-4, AND PS-5 SO THEY CAN PROPERLY LOCATE THE NEARBY WATERMAIN.
3. PROVIDE A MINIMUM SEPARATION OF ONE (1) FOOT BETWEEN PROPOSED CONDUIT AND EXISTING STORM/SANITARY SEWERS.
4. FOR ADDITIONAL UTILITY CONTACT INFORMATION, SEE SHEET \$GNO01\$
5. FOR ADDITIONAL PROPOSED SIGNAL CONDUIT AND FOUNDATION INFORMATION, SEE SHEET \$CPO01\$

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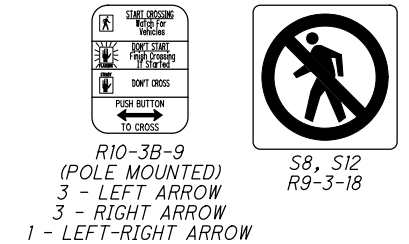
**PULLBOX TABLE**

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
B1	6+28	LT	63.7'	24
B2	5+47	LT	59.2'	18
B3	6+44	RT	51.1'	18
B4	6+21	RT	24.9'	18
B5	5+47	RT	59.1'	18
B6	6+50	LT	46.0'	18
B7	8+38	LT	43.0'	18

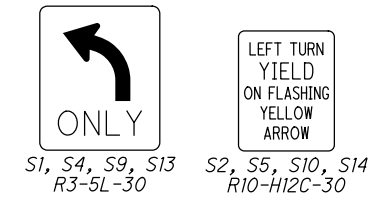
**SIGNAL HEADS**



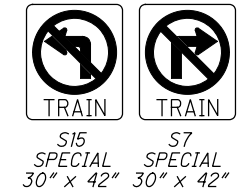
**PEDESTRIAN SIGNS**



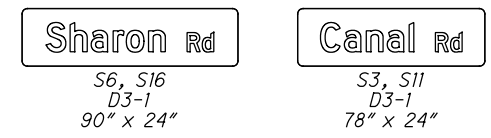
**SIGNS**



**BLANK OUT SIGNS**



**STREET NAME SIGNS**



**NOTES:**

- ALL CONDUIT IS 2" 725.05 UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO CONDUIT PLACEMENT.
- CONTRACTOR SHALL SUPPLY ONE CONTINUOUS LENGTH OF PREEMPTION INTERCONNECT CABLE ADEQUATE TO CONNECT THE TRAFFIC SIGNAL CONTROL CABINET AND THE RAILROAD BUNGALOW. SPLICES ARE NOT ACCEPTABLE. COORDINATE CONNECTION TO RAILROAD BUNGALOW AND NUMBER OF REQUIRED CABLE CONDUCTORS WITH NORFOLK SOUTHERN.

**LEGEND**

- EXISTING / PROPOSED
- TBR TO BE REMOVED
  - ☒ GROUND MOUNTED CONTROLLER/UPS
  - ⊠ POLE MOUNTED CONTROLLER
  - ⊠ SIGNAL STRAIN POLE/SUPPORT (SP-#)
  - PEDESTAL SUPPORT (PS-#)
  - ▣ PULL BOX (B#)
  - 3- SECT. TRAFFIC SIGNAL HEAD (#)
  - 4- SECT. TRAFFIC SIGNAL HEAD W/ ARROWS (#)
  - 5- SECT. TRAFFIC SIGNAL HEAD (#)
  - P PEDESTRIAN SIGNAL HEAD (P#)
  - P PEDESTRIAN PUSH BUTTON W/ SIGN (PB#)
  - ⊠ STOP BAR RADAR DETECTION UNIT
  - ⊠ SIGN (S#)
  - ▨ DETECTION ZONE (D#)
  - ⊠ WOOD UTILITY POLE
  - ⊠ RAILROAD GATE
  - ⊠ RAILROAD FLASHERS

SIGNAL PLAN SHARON RD. & CANAL RD.  
 HAM-E SHARON RD NS  
 16  
 26

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