

UTILITIES

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

COLUMBIA GAS OF OHIO
2429 LINDEN AVENUE
ZANESVILLE, OHIO 43701
(740) 260-0370
ATTN: MICHAEL DIBENEDETTO
MDIBENEDETTO@NISOURCE.COM

CHARTER COMMUNICATIONS
111 NORTH 11TH STREET
NEWARK, OHIO 43055
(740) 322-6703
ATTN: JOHN MOHLER
JOHN.MOHLER@CHARTER.COM
CC: CRAIG OMEN
CRAIG.OMEN@CHARTER.COM

THE ENERGY COOPERATIVE
1500 GRANVILLE RD
NEWARK, OHIO 43055
(740) 348-1254
ATTN: GREG WILSON
GWILSON@THEENERGYCOOP.COM

WINDSTREAM COMMUNICATION
776 HOPEWELL DRIVE
HEATH, OHIO 43056
(740) 349-8857
ATTN: GEOFFREY HAMM
GEOFFREY.P.HAMM@WINDSTREAM.COM

**CITY OF NEWARK
WATER AND SEWER**
1275 EAST MAIN STREET
NEWARK, OHIO 43055
(740) 670-7972
ATTN: JOHN KREAGER
JKREAGER@NEWARKOHIO.NET

AMERICAN ELECTRIC POWER
777 HOPEWELL DRIVE
HEATH, OHIO 43056
(740) 349-4011
ATTN: JEFF VANDINE
JWVANDINE@AEP.COM
CC: DAVID HOWLER
DAHOWILER@AEP.COM

**CITY OF NEWARK
STORMWATER UTILITY**
34 SOUTH FIFTH STREET
NEWARK, OHIO 43055
(740) 670-7762
ATTN: LINDSEY BRIGHTON
LBRIGHTON@NEWARKOHIO.NET

**AMERICAN ELECTRIC POWER
(DISTRIBUTION)**
777 HOPEWELL DRIVE
HEATH, OHIO 43056
(740) 348-5322
ATTN: PAUL PAXTON
PTPAXTON@AEP.COM

SPECTRUM CABLE TV
3760 INTERCHANGE DRIVE
COLUMBUS, OHIO 43204
(740) 322-6703
ATTN: BRIAN AMENDE
BRIAN.AMENDE@CHARTER.COM

**AEP SOLUTION CENTER
(SERVICES AND STREET LIGHTING)**
1-800-277-2177

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL POSITIONING METHOD: GPS
MONUMENT TYPE: TYPE B, MAG NAILS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE (3401)
ORIGIN OF COORDINATE SYSTEM: N/A

COMBINED SCALE FACTOR: NO SCALE FACTOR USED,
PROJECT IN GRID COORDINATES

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 SUPPLEMENTAL SPECIFICATION 823.

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

CONTROL POINTS	
CP107 5/8" REBAR WITH RED GPD CAP N: 750016.59 E: 199500.03	ELEV. 832.98
CP110 5/8" REBAR WITH RED GPD CAP N: 748889.53 E: 1995487.29	ELEV. 830.54
BM3 3 SE BOLT ON LPOLE BASE N: 749841.07 E: 1995056.01	ELEV. 835.68

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION TYPE DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM OR AS DIRECTED BY THE CITY OF NEWARK. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 218 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235-2786
614-387-2358

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

A CONTINGENCY QUANTITY OF LOW STRENGTH MORTAR HAS BEEN PROVIDED FOR THE PLAN TO BE USED AT THE DISCRETION OF THE ENGINEER.

613, LOW STRENGTH MORTAR BACKFILL, AS PER PLAN 25 CY

ITEM 608 - WALKWAY MISC.: 2 1/4" CLAY BRICK PAVER

BRICK PAVERS: LIGHT -TRAFFIC PAVING BRICK; ASTM C 902, PROVIDE BRICK WITHOUT FROGS OR CORES IN SURFACES EXPOSED TO VIEW IN THE COMPLETED WORK.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS
A. BELDEN
2. THICKNESS: 2-1/4 INCHES
3. FACE SIZE: 3 5/8 BY 7 5/8 INCHES
4. COLOR: 560
5. PATTERN: PER PLAN

THIS ITEM INCLUDES FURNISHING AND INSTALLING CLAY BRICK PAVERS AS SHOWN ON SHEETS 9 AND AS PER DETAILS AND NOTES ON SHEET 8 . THE COST OF ALL MATERIALS, EQUIPMENT, AND LABOR TO CONSTRUCT THE COMPLETE PAVEMENT SYSTEM, INCLUDING EXCAVATION, SUBGRADE COMPACTION, CONCRETE BASE INCLUDING TURNDOWN SLAB AT PLANTER EDGE AND WEEP HOLE EVERY 5'-0" AT LOW END OF WALK, AGGREGATE BASE, BITUMINOUS SETTING BED, AND CLAY BRICK PAVERS SHALL BE PAID FOR UNDER THE PER SQUARE FOOT UNIT PRICE BID ITEM SPECIAL, 2 1/4" CLAY BRICK PAVER.

BITUMINOUS SETTING BED
(INCLUDED IN ITEM 608 - WALKWAY MISC.: 2 1/2" CLAY BRICK PAVER)

A. PRIMER FOR BASE: ASTM D 2028, CUTBACK ASPHALT, GRADE AS RECOMMENDED BY UNIT PAVER MANUFACTURER.

B. FINE AGGREGATE FOR SETTING BED: ASTM D 1073, NO. 2 OR NO. 3.

C. ASPHALT CEMENT: ASTM D 3381, VISCOSITY GRADE AC-10 OR GRADE AC-20.

D. SAND FOR JOINTS: FINE, SHARP WASHED, NATURAL SAND OR CRUSHED STONE WITH 100 PERCENT PASSING NO. 16 (1.18MM) SIEVE AND NO MORE THAN 10 PERCENT PASSING NO. 200 (0.075) SIEVE.

1. PROVIDE SAND OF COLOR NEEDED TO PRODUCE REQUIRED JOINT COLOR.

A QUANTITY OF 28 CY HAS BEEN PROVIDED FOR INFORMATION PURPOSES ONLY.

ITEM 646 - PARKING LOT STALL MARKING, AS PER PLAN

ALL PARKING LOT STALL MARKINGS SHALL BE PLACED AS CONTRAST MARKINGS PER TRAFFIC ENGINEERING MANUAL (TEM) SECTION 301-19 AND OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) SECTION 3A.05.

ITEM 644 - STOP LINE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS SECTION 644, THE FOLLOWING SHALL ALSO APPLY:

THE STOP LINE SHALL BE DOTTED, CONSISTING OF 2-FOOT LINE SEGMENTS AND 2-FOOT GAPS.

PAYMENT FOR ITEM 644, STOP LINE, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT IN PLACE AND INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO COMPLETE THE ABOVE DESCRIBED WORK.

ITEM 608 - WALKWAY, MISC.: 4" CONCRETE WALK, EXPOSED AGGREGATE FINISH

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS SECTION 608, 4" CONCRETE WALK, THE CONCRETE WILL HAVE AN INTEGRAL EXPOSED-AGGREGATE FINISH. EXPOSE DECORATIVE AGGREGATE IN PAVEMENT SURFACES AS FOLLOWS:

1. THE SURFACE OF THE CONCRETE IS TO BE FLOATED TO A SMOOTH FINISH.
2. IMMEDIATELY AFTER FLOAT FINISH, SPRAY-APPLY CHEMICAL SURFACE RETARDER TO PAVEMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTION.
3. IF NECESSARY, COVER PAVEMENT SURFACE WITH PLASTIC SHEETING, SEALING LAPS WITH TAPE, AND REMOVE WHEN READY TO CONTINUE FINISHING OPERATIONS.
4. WITHOUT DISLODGING AGGREGATE, REMOVE EXCESS MORTAR BY LIGHTLY BRUSHING SURFACE WITH A STIFF, NYLON-BRISTLE BROOM.
5. FINE-SPRAY SURFACE WITH WATER AND BRUSH. REPEAT WATER FLUSHING AND BRUSHING CYCLE UNTIL CEMENT FILM IS REMOVED FROM AGGREGATE SURFACE TO DEPTH REQUIRED.
6. FINISH SHALL MATCH APPROVED MOCKUP. FINISHES THAT DO NOT MATCH THE APPROVED MOCKUP SHALL BE REMOVED AND REPLACED.
7. THE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

EXPOSED AGG #8 MIX DESIGN (4,000 PSI)	
CEMENT ASTM C150	658 LBS
#8 AGGREGATE	2040 LBS
NATURAL SAND	830 LBS
ENTRAINED AIR	5-7 %
MIDRANGE WR	26 OZS
TOTAL WATER	296 LBS
MAXIMUM SLUMP	5.00 IN
WATER/CEMENT RATIO	0.450

ITEM 608 - WALKWAY, MISC.: 4" CONCRETE WALK, BROOM FINISH

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS SECTION 608, 4" CONCRETE WALK, THE CONCRETE WILL HAVE A MEDIUM-TO-FINE-TEXTURED BROOM FINISH. DRAW A SOFT BRISTLE BROOM ACROSS FLOAT-FINISHED CONCRETE SURFACE PERPENDICULAR TO THE LINE OF TRAFFIC TO PROVIDE UNIFORM, FINE-LINE TEXTURE.

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS SECTION 630 AND 730, THE FOLLOWING SHALL ALSO APPLY:

ALL POSTS SUPPORTS SHALL BE TYPE S WITH ANCHOR BASES IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING TC-41.20.

ITEM 647 - TRANSVERSE/DIAGONAL LINE, TYPE B125, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS SPECIFIED FOR ITEM 647, THE MATERIAL SUPPLIED SHALL PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM: E 303. THE MATERIAL MUST BE SUPPLIED AT A MINIMUM THICKNESS OF 125 MILS (3.15 MM).

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ITEM 452 - 8" NON-REINFORCED CONCRETE, CLASS QC 1P, AS PER PLAN (EXPOSED AGGREGATE FINISH)

CONCRETE WILL FOLLOW CMS ITEM 452 AND A BUFF-WASH FINISH WILL BE APPLIED AS FOLLOWS:

1. IMMEDIATELY AFTER FLOAT FINISHING, SPRAY-APPLY CHEMICAL SURFACE RETARDER TO PAVEMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. IF NECESSARY, COVER PAVEMENT SURFACE WITH PLASTIC SHEETING, SEALING LAPS WITH TAPE, AND REMOVE WHEN READY TO CONTINUE FINISHING OPERATIONS.
3. WITHOUT DISLODGING AGGREGATE, REMOVE EXCESS MORTAR BY LIGHTLY BRUSHING SURFACE WITH A STIFF, NYLON-BRISTLE BROOM.
4. FINE-SPRAY SURFACE WITH WATER AND BRUSH. REPEAT WATER FLUSHING AND BRUSHING CYCLE UNTIL CEMENT FILM IS REMOVED FROM AGGREGATE SURFACES TO DEPTH REQUIRED.
5. FINISH SHALL MATCH APPROVED MOCKUP. FINISHES THAT DO NO MATCH APPROVED MOCKUP SHALL BE REMOVED AND REPLACED.

6. THE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

EXPOSED AGG #8 MIX DESIGN (4,000 PSI)	
CEMENT ASTM C150	658 LBS
#8 AGGREGATE	2040 LBS
NATURAL SAND	830 LBS
ENTRAINED AIR	5-7 %
MIDRANGE WR	26 OZS
TOTAL WATER	296 LBS
MAXIMUM SLUMP	5.00 IN
WATER/CEMENT RATIO	0.450

SEE SHEET 9 FOR AREAS WHICH THIS ITEM APPLIES TO.

ITEM 452 - 8" NON-REINFORCED CONCRETE, CLASS QC 1P, AS PER PLAN (BROOM FINISH)

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS SECTION 8" NON-REINFORCED CONCRETE, CLASS QC 1P, THE CONCRETE WILL HAVE A MEDIUM-TO-FINE-TEXTURED BROOM FINISH. DRAW A SOFT BRISTLE BROOM ACROSS FLOAT-FINISHED CONCRETE SURFACE PERPENDICULAR TO THE LINE OF TRAFFIC TO PROVIDE UNIFORM, FINE-LINE TEXTURE.

SEE SHEET 9 FOR AREAS WHICH THIS ITEM APPLIES TO.

ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QC 1P, AS PER PLAN (EXPOSED AGGREGATE FINISH)

CONCRETE WILL FOLLOW CMS ITEM 452 AND A BUFF-WASH FINISH WILL BE APPLIED AS FOLLOWS:

1. IMMEDIATELY AFTER FLOAT FINISHING, SPRAY-APPLY CHEMICAL SURFACE RETARDER TO PAVEMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. IF NECESSARY, COVER PAVEMENT SURFACE WITH PLASTIC SHEETING, SEALING LAPS WITH TAPE, AND REMOVE WHEN READY TO CONTINUE FINISHING OPERATIONS.
3. WITHOUT DISLODGING AGGREGATE, REMOVE EXCESS MORTAR BY LIGHTLY BRUSHING SURFACE WITH A STIFF, NYLON-BRISTLE BROOM.
4. FINE-SPRAY SURFACE WITH WATER AND BRUSH. REPEAT WATER FLUSHING AND BRUSHING CYCLE UNTIL CEMENT FILM IS REMOVED FROM AGGREGATE SURFACES TO DEPTH REQUIRED.
5. FINISH SHALL MATCH APPROVED MOCKUP. FINISHES THAT DO NO MATCH APPROVED MOCKUP SHALL BE REMOVED AND REPLACED.

6. THE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

EXPOSED AGG #8 MIX DESIGN (4,000 PSI)	
CEMENT ASTM C150	658 LBS
#8 AGGREGATE	2040 LBS
NATURAL SAND	830 LBS
ENTRAINED AIR	5-7 %
MIDRANGE WR	26 OZS
TOTAL WATER	296 LBS
MAXIMUM SLUMP	5.00 IN
WATER/CEMENT RATIO	0.450

SEE SHEET 9 FOR AREAS WHICH THIS ITEM APPLIES TO.

CALCULATED	BLC	CHECKED	FRR
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GENERAL NOTES

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