

**ROUNDING (G101)**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

**UTILITIES (G102A)**

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

HUR-13-6.01:

ELECTRIC FIRELANDS ELECTRIC CO-OP ATTN: KURT SHEPHERD 103 INDUSTRIAL DRIVE NEW LONDON, OH 44851 419.929.1571	COMMUNICATION FRONTIER COM ATTN: RANDY HOWARD 6223 NORWALK ROAD MEDINA, OH 44256 330.722.9586
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COMMUNICATION EVERSTREAM ATTN: JIM BYRNE 1228 EUCLID AVENUE, SUITE 250 CLEVELAND, OH 44115 216.581.2972	WATER NORTHERN OHIO RURAL WATER ATTN: JOSH SUTHERLAND P.O. BOX 96 COLLINS, OH 44826 419.668.7213
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HUR-99-2.60:

ELECTRIC FIRELANDS ELECTRIC CO-OP ATTN: KURT SHEPHERD 103 INDUSTRIAL DRIVE NEW LONDON, OH 44851 419.929.1571	COMMUNICATION FRONTIER COM ATTN: ERIC MASSENGILL 300 W. GYPSY LANE BOWLING GREEN, OH 43402 419.354.9455
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HUR-162-22.85:

ELECTRIC FIRELANDS ELECTRIC CO-OP ATTN: KURT SHEPHERD 103 INDUSTRIAL DRIVE NEW LONDON, OH 44851 419.929.1571	COMMUNICATION FRONTIER COM ATTN: RANDY HOWARD 6223 NORWALK ROAD MEDINA, OH 44256 330.722.9586
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WATER  
VILLAGE OF NEW LONDON  
ATTN: JOHN CHAPIN  
115 EAST MAIN STREET  
NEW LONDON, OH 44851  
419.929.4091

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

**EXISTING PLANS (G103)**

EXISTING PLANS ENTITLED HUR-13-6.01 (1961) MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND.

**WORK LIMITS (G106)**

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.

**ROUTINE MAINTENANCE**

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

**UTILITY LINES**

ALL EXPENSES INVOLVED IN RELOCATING OR INSTALLING THE AFFECTED UTILITY LINES SHALL BE THE RESPONSIBILITY OF THEIR RESPECTIVE OWNERS. THE CONTRACTOR AND OWNER(S) ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

**COORDINATION OF WORK BETWEEN CONTRACTORS**

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. HUR-250-5.10 IS A RESURFACING CONTRACT AND IS SCHEDULED TO BEGIN WORK IN THE 2021 CONSTRUCTION SEASON. THE PROJECT WILL REQUIRE INTERSECTION WORK AT US ROUTE 250 AND STATE ROUTE 162, RESULTING IN A ROAD CLOSURE AND DETOUR. THE ROAD CLOSURE FOR THE HUR-162-22.85 CULVERT SHALL NOT TAKE PLACE AT THE SAME TIME AS THE US ROUTE 250/STATE ROUTE 162 INTERSECTION CLOSURE. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYING PARAMETERS (G105)**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THE CENTERLINE PLAT SHEETS FOR TABLES CONTAINING PROJECT CONTROL INFORMATION.

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

**HUR-13-6.01**

PROJECT CONTROL  
POSITIONING METHOD: GPS OBSERVATIONS PER THE ODOT VRS NETWORK  
MONUMENT TYPE: REBAR WITH CAPS SET

VERTICAL POSITIONING  
ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12B

HORIZONTAL POSITIONING  
REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE – NORTH ZONE (3401) SCALED BY A COMBINED GRID SCALE AND ELEVATION PROJECT ADJUSTMENT FACTOR ABOUT THE GRID ORIGIN N=0, E=0 COORDINATE  
COMBINED SCALE FACTOR: UNITLESS GRID TO PROJECT ADJUSTMENT FACTOR (PAF)  
MULTIPLIER = 1.00010165  
GRID (METERS) TO PROJECT (U.S. SURVEY FEET)  
MULTIPLIER = 3.281166830  
ORIGIN OF COORDINATE SYSTEM: N=0, E=0 COORDINATE

PROJECT COORDINATE UNITS ARE IN U.S. SURVEY FEET, GRID COORDINATE UNITS ARE IN METERS. USE THE FOLLOWING CONVERSION FACTOR:  
1 METER = 39.37 INCHES = 3.280833333 U.S. SURVEY FEET

**HUR-99-2.60**

PROJECT CONTROL  
POSITIONING METHOD: GPS OBSERVATIONS PER THE ODOT VRS NETWORK  
MONUMENT TYPE: REBAR WITH CAPS SET

VERTICAL POSITIONING  
ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12B

HORIZONTAL POSITIONING  
REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE – NORTH ZONE (3401) SCALED BY A COMBINED GRID SCALE AND ELEVATION PROJECT ADJUSTMENT FACTOR ABOUT THE GRID ORIGIN N=0, E=0 COORDINATE  
COMBINED SCALE FACTOR: UNITLESS GRID TO PROJECT ADJUSTMENT FACTOR (PAF)  
MULTIPLIER = 1.00009788  
GRID (METERS) TO PROJECT (U.S. SURVEY FEET)  
MULTIPLIER = 3.281154445  
ORIGIN OF COORDINATE SYSTEM: N=0, E=0 COORDINATE

PROJECT COORDINATE UNITS ARE IN U.S. SURVEY FEET, GRID COORDINATE UNITS ARE IN METERS. USE THE FOLLOWING CONVERSION FACTOR:  
1 METER = 39.37 INCHES = 3.280833333 U.S. SURVEY FEET

**HUR-162-22.85**

PROJECT CONTROL  
POSITIONING METHOD: GPS OBSERVATIONS PER THE ODOT VRS NETWORK  
MONUMENT TYPE: REBAR WITH CAPS SET

VERTICAL POSITIONING  
ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12A

HORIZONTAL POSITIONING  
REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE – NORTH ZONE (3401) SCALED BY A COMBINED GRID SCALE AND ELEVATION PROJECT ADJUSTMENT FACTOR ABOUT THE GRID ORIGIN N=0, E=0 COORDINATE  
COMBINED SCALE FACTOR: UNITLESS GRID TO PROJECT ADJUSTMENT FACTOR (PAF)  
MULTIPLIER = 1.00010206  
GRID (METERS) TO PROJECT (U.S. SURVEY FEET)  
MULTIPLIER = 3.281168175  
ORIGIN OF COORDINATE SYSTEM: N=0, E=0 COORDINATE

PROJECT COORDINATE UNITS ARE IN U.S. SURVEY FEET, GRID COORDINATE UNITS ARE IN METERS. USE THE FOLLOWING CONVERSION FACTOR:  
1 METER = 39.37 INCHES = 3.280833333 U.S. SURVEY FEET

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.

**MONUMENT ASSEMBLIES (G110)**

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON THE CENTERLINE PLAT SHEETS.

**ITEM 201 – CLEARING AND GRUBBING (G108B)**

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED. THE TREES LISTED BELOW ARE TO BE REMOVED WITH A SEPARATE CONTRACT BY APRIL 1, 2021.

HUR-13-6.01:

SIZES	NO. TREES	NO. STUMPS	TOTAL
6"	1	0	1

HUR-99-2.60:

SIZES	NO. TREES	NO. STUMPS	TOTAL
6"	8	0	8
8"	7	0	7
10"	5	0	5
12"	8	0	8
14"	1	0	1
18"	3	0	3
24"	1	0	3
42"	1	0	1

HUR-162-22.85:

SIZES	NO. TREES	NO. STUMPS	TOTAL
6"	2	0	2
24"	0	2	2

A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING FOR AREAS NOT INCLUDED IN THE ABOVE LIST. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201, CLEARING AND GRUBBING.

**ENVIRONMENTAL COMMITMENTS**

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ODOT SHALL OBTAIN THE FLOODPLAIN PERMIT PRIOR TO THE START OF CONSTRUCTION.

ODOT WILL OBTAIN AND ADHERE TO ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK BELOW THE ORDINARY HIGH WATER MARK OF ANY WATERWAY AND ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PROJECT PLANS.

**EXISTING CULVERT VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING CULVERT HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING CULVERT AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING CULVERT AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING CULVERT. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**REVIEW OF DRAINAGE FACILITIES (D114)**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**ITEM 611 – RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS**

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

PAYMENT FOR ALL LABOR AND MATERIALS WILL BE PERFORMED BY CHANGE ORDER.

CALCULATED  
ACM  
CHECKED  
KRB

GENERAL NOTES

HUR - CULVERT - FY2021

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