

**GENERAL**

**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:

CABLE	COUNTY
BUCKEYE CABLE	ERIE COUNTY SEWER
4818 ANGOLA ROAD	554 RIVER ROAD
TOLEDO, OH 43615	HURON, OH 44839
419.724.3768	419.433.7303

COUNTY	WATER
ERIE COUNTY ENGINEER	ERIE COUNTY WATER
2700 COLUMBUS AVENUE	2614 COLUMBUS AVENUE
SANDUSKY, OH 44870	SANDUSKY, OH 44870
419.627.7710	419.627.7666

ELECTRIC  
OHIO EDISON  
2508 W. PERKINS AVENUE  
SANDUSKY, OH 44870  
419.627.6881

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 ERI-2-18.38 (1991) 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.

**SURVEYING PARAMETERS (G105)**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 10 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: OHIO RTN  
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING  
ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOD18

HORIZONTAL POSITIONING  
REFERENCE FRAME: NAD83 (2011 ADJ, 2010.0)  
ELLIPSOID: GRS 80

COORDINATE SYSTEM: O.D.O.T. ERIE OCCS  
ERIE OCCS PROJECTION PARAMETERS:  
PROJECTION: LAMBERT CONFORMAL CONIC  
CENTRAL LATITUDE: N 41°24'00"  
CENTRAL LONGITUDE: W 277°27'00"  
FALSE NORTHING: 100,000 METERS  
FALSE EASTING: 50,000 METERS  
PROJECTION SCALE FACTOR: 1.000027

ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 623 WILL GOVERN CONSTRUCTION SURVEYING ACTIVITY.

THE FOLLOWING MONUMENT VERIFICATION REPORT(S) WILL BE REQUIRED:  
623.04a – PRECONSTRUCTION MONUMENT VERIFICATION AND REPORT – LUMP SUM CARRIED TO GENERAL SUMMARY

**ENVIRONMENTAL COMMITMENTS**

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED NORTHERN LONG-EARED AND INDIANA BAT, AND THE STATE ENDANGERED LITTLE BROWN AND TRICOLORED BATS. NO TREES SHALL BE REMOVED 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 AND ORC 1531.25. 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 WILL AUTHORIZE A GROUP 1 PERMITTED MALACOLOGIST TO COMPLETE A MUSSEL SALVAGE AND RELOCATION IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE OHIO MUSSEL SURVEY PROTOCOL PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES BELOW THE ORDINARY HIGH-WATER MARK. THE PERMITTED MALACOLOGIST WILL SUBMIT THE SALVAGE AND RELOCATION WORK PLAN TO ODNR FOR REVIEW AND APPROVAL PRIOR TO ANY SURVEY WORK. THE RESULTS OF THE MUSSEL SURVEY AND/OR SALVAGE WORK MUST BE PROVIDED TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR LEVI WINGLER, (LEVI.WINGLER@DOT.OHIO.GOV, 419-207-7171) FOR COORDINATION WITH ODNR. THE CONTRACTOR CANNOT PERFORM ANY WORK BELOW ORDINARY HIGH-WATER MARK UNTIL THE MUSSEL SALVAGE AND RELOCATION WORK HAS BEEN COMPLETED AND APPROVAL HAS BEEN RECEIVED FROM ODNR.

ODOT WILL COORDINATE WITH AN ODNR APPROVED HERPETOLOGIST TO DETERMINE IF PROJECT ACTIVITIES AND DURATION HAVE THE POTENTIAL TO IMPACT THE BLANDING'S TURTLE OR THEIR HABITAT AND WILL DEVELOP APPROPRIATE AVOIDANCE/ MINIMIZATION MEASURES.

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.

**WINDOW CONTRACT TABLE**

USE THE FOLLOWING TABLE AS REFERRED TO IN THE PROPOSAL:

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
ALL WORK ON S.R. 2	121 DAYS	PER C&MS 108.07	11/15/2024	3/15/2025

**ROADWAY**

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

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
6"	5	0	5
8"	5	0	5
10"	3	0	3
12"	2	0	2
16"	2	0	2

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL (R111)**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**ITEM 202 – GUARDRAIL REMOVED FOR REUSE, AS PER PLAN  
ITEM 202 – ANCHOR ASSEMBLY REMOVED FOR REUSE, AS PER PLAN**

THIS ITEM SHALL BE USED TO REMOVE EXISTING GUARDRAIL TO FACILITATE CONSTRUCTION EQUIPMENT ACCESS. GUARDRAIL POSTS SHALL ALSO BE REMOVED. THE GUARDRAIL SHALL BE IN PLACE IF TRAFFIC IS TO BE PERMITTED IN THE ADJACENT LANE. THE COST OF REINSTALLING THE GUARDRAIL SHALL BE INCLUDED UNDER ITEM 606 – GUARDRAIL REBUILT, TYPE 5 OR ITEM 606 – ANCHOR ASSEMBLY REBUILT, TYPE T.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT FOR ITEM 202 – GUARDRAIL REMOVED FOR REUSE, AS PER PLAN, OR ITEM 202 – ANCHOR ASSEMBLY REMOVED FOR REUSE, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**FENCE LENGTHS (G119)**

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

**ITEM 202 – FENCE REMOVED FOR REUSE, AS PER PLAN**

THIS ITEM SHALL BE USED TO REMOVE AND REINSTALL THE EXISTING RIGHT OF WAY FENCE FOR CONSTRUCTION ACCESS PURPOSES.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT FOR ITEM 202 – FENCE REMOVED FOR REUSE, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 606 – GUARDRAIL REBUILT, TYPE 5  
ITEM 606 – ANCHOR ASSEMBLY REBUILT, TYPE T**

THIS ITEM SHALL BE USED WHEN THE GUARDRAIL REQUIRES REPAIRS IN WHICH THE RAIL ELEMENT IS REUSABLE. ALSO, THIS ITEM WILL BE USED TO RE-ALIGN GUARDRAIL RUNS, AS DIRECTED BY THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT, AS DESCRIBED IN C&MS 606.05 FOR ITEM 606 – GUARDRAIL REBUILT, TYPE 5 OR ITEM 606 – ANCHOR ASSEMBLY REBUILT, TYPE T.

**ITEM 203 – EMBANKMENT, AS PER PLAN**

THIS ITEM SHALL BE USED TO PLACE EMBANKMENT MATERIAL ON AREAS OF REBUILT GUARDRAIL AND ANCHOR ASSEMBLIES.

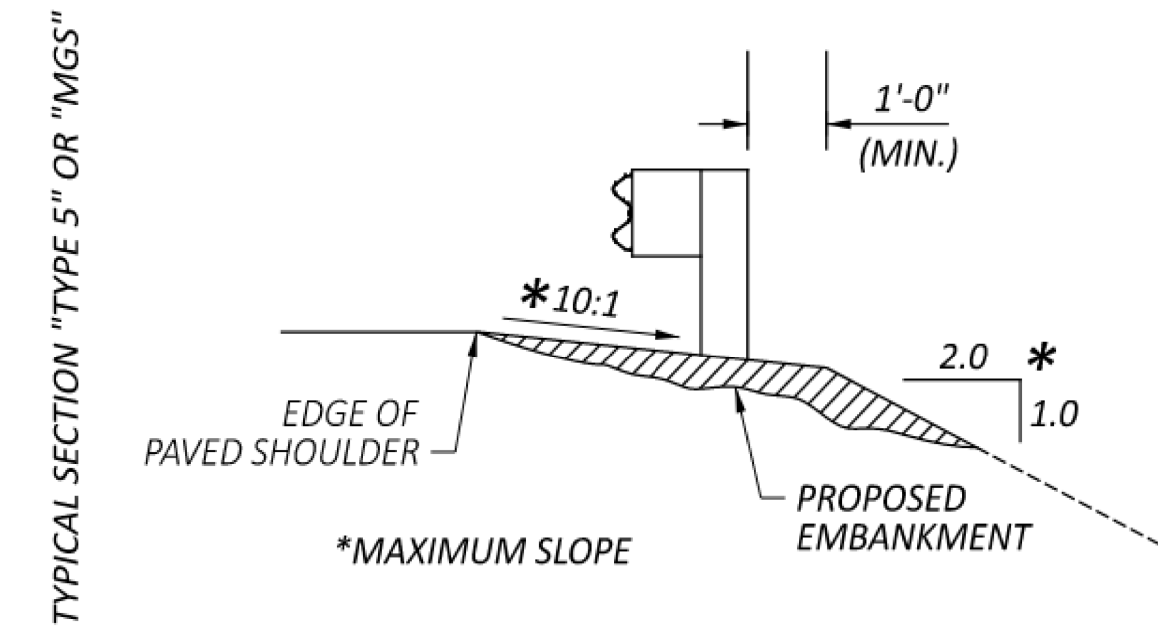
AT SPECIFIED LOCATIONS AND LOCATIONS AS DIRECTED BY THE ENGINEER, EMBANKMENT SHALL BE PLACED AS TO PROVIDE A SUITABLE AREA TO CONSTRUCT GUARDRAIL AND TO PROVIDE STRUCTURAL INTEGRITY OF THE ROADWAY SHOULDER.

AREAS WHERE EMBANKMENT MATERIAL IS TO BE PLACED SHALL BE SCALPED. THE REQUIREMENTS FOR BENCHING SHALL BE WAIVED. THE DEPTH OF LAYERS IN WHICH THE EMBANKMENT IS PLACED SHALL BE LIMITED TO EIGHT (8) INCHES IN THICKNESS. THE METHOD OF COMPACTION AND EQUIPMENT USED SHALL BE PER C&MS 203.07 OR 98% MAXIMUM DRY DENSITY.

AFTER THE EMBANKMENT HAS BEEN PLACED, THE AREAS SHALL BE FERTILIZED, SEEDDED, MULCHED, AND WATERED AS PER ITEM 659. THE COST SHALL BE INCLUDED UNDER INDIVIDUAL SEEDING AND MULCHING ITEMS ON THIS SHEET.

THE METHOD OF MEASUREMENT FOR EMBANKMENT MATERIAL SHALL BE BY THE NUMBER OF CUBIC YARDS MEASURED BY LOOSE VOLUME IN THE CARRIER AT THE WORK SITE, IN LIEU OF THE REQUIREMENTS OF 203.09. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR ITEM 203 - EMBANKMENT, AS PER PLAN AND SHALL INCLUDE ALL WORK DESCRIBED ABOVE.

CONTINGENCY QUANTITIES OF ITEM 203 – EMBANKMENT, AS PER PLAN HAVE BEEN PROVIDED IN LOCATIONS WHERE GUARDRAIL IMPROVEMENTS ARE TO BE MADE. THESE AREAS ARE NOT SHOWN ON THE PLANS FOR CLARITY. A QUANTITY OF 6 CY PER 100 FT OF GUARDRAIL IMPROVEMENT HAS BEEN USED FOR ESTIMATING PURPOSES. EXACT DIMENSIONS AND LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.



**EROSION CONTROL**

**ITEM 659 – SEEDING AND MULCHING (E101A)**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDDED AREAS:

659	COMMERCIAL FERTILIZER	0.25	TON
659	LIME	0.37	ACRE
659	WATER	9.83	M GAL
659	REPAIR SEEDING AND MULCHING	89	SQ YD
659	INTERSEEDING	89	SQ YD
659	TOPSOIL	197	CU YD
659	SOIL ANALYSIS TEST	2	EACH
659	SEEDING AND MULCHING	1775	SQ YD

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

**DRAINAGE**

**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.

GENERAL NOTES

ERI-2-21.23

MODEL: GEN NOTES 1 PAPER SIZE: 34x22 (in.) DATE: 8/30/2024 TIME: 12:05:38 PM USER: amellen  
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DESIGN AGENCY  
**DISTRICT 3**

ENGINEERING  
TEAM THREE

DESIGNER  
**ACM**

REVIEWER  
**KCK 04-26-24**

PROJECT ID  
**118861**

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.2	17