

# GENERAL NOTES

**ELEVATION DATUM**  
All elevations are based on USGS datum.

**EROSION CONTROL**  
ITEM 601 is provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place this item. The Engineer shall check and non-perform quantities or adjust locations and quantities for this item where indicated by field conditions during construction.

**UTILITY OWNERSHIP**  
The following utilities and owners are located within the work limits of this project:

**ELECTRIC:** NAPOLEON LIGHT & POWER DEPT.      GAS: OHIO GAS CO.  
235 RIVERVIEW AVE.      200 WEST HIGH ST.  
NAPOLEON, OH, 43345      BRVAK, OH, 43306  
419/599-1235      800/331-7396  
419/599-2810 (EMERGENCY)      419/636-1117

**TELEPHONE: EMBARQ**  
375 E. RIVERVIEW  
NAPOLEON, OHIO 43345  
419/599-4024

**ITEM 603**  
Payment for manufactured end sections, coupling bonds, precast wingwalls and footings shall be included in the unit price bid for each conduit under this item.

Where plans provide for proposed conduit to be connected to, or to cross either over or under an existing sewer, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before laying the proposed conduit.

Payment for all operations described above shall be included in the unit price bid for the pertinent 603 conduit items.

Immediately after placement of any conduits, the Contractor shall construct the end treatments required by the plans of both the outlet and inlet ends. This shall include headwalls, wingwalls, end sections, concrete riprap, rock channel protection, sodding, etc.

**UNDERGROUND UTILITIES**  
The locations of underground utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64 ORC.

**SEEDING**  
To be performed by county forces.

**ANIMAL GUARDS**  
Animal guards shall be provided at the outlet of all pipes which are to be constructed by the Contractor, as per Standard Construction Drawing DM-1.1, except when they outlet into a drainage structure. Payment for the animal guards shall be included in the price bid for Item 603.

**INGRESS AND EGRESS TO DRIVES**  
Ingress and egress to all residential drives shall be maintained at all times during the construction of this project. Temporary closures of any drives shall require permission from the Engineer prior to closure and shall be held to as short a period of time as is necessary.

**CONTINGENCY QUANTITIES**  
The Contractor shall not order materials or perform work listed in the GENERAL SUMMARY for items designated by plan note to be used "AS DIRECTED BY ENGINEER" unless authorized by the Engineer. The actual work locations and quantities used of the Engineer's discretion shall be made a matter of record by incorporation into the final change order governing completion of this project.

**ITEM 201**  
Cost of DIRTWOOD REMOVAL to be included in CLEANING & GRUBBING price, will also include any necessary tree removal REQUIRED TO COMPLETE ITEM 201

**LOCATION OF GUARDRAIL**  
The locations of guardrail runs, as shown in these plans, are subject to adjustment prior to final acceptance. The Engineer shall be satisfied that all installations will afford maximum protection for traffic.

**DETOURS**  
All necessary signs and sign supports including erecting, maintaining and removing the signs and sign supports shall be provided by the Contractor for the required project detour, as indicated on Sh. 1.

Signs and sign supports shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining and removing signs and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

**LIGHTS AND SIGNS AT ADJACENT INTERSECTIONS**  
The Contractor shall, in addition to the general requirements of ITEM 614 on this project, perform the following:

Provide, erect, and maintain standard 48" x 30" "ROAD CLOSED" signs, sign supports, and lights at the following locations during the period in which the affected road is closed to traffic:

1. Int. I.R. 17 & C.R. U
2. Int. C.R. 16 & C.R. U

Sign supports and lights for "ROAD CLOSED" signs shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining, and removing lights, signs, and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

**APPEARANCE OF BRIDGE**  
The Contractor shall be responsible for the removal of all foreign material such as waterproofing primer or other asphaltic materials, as soon as practical from the fascia beams and/or wingwalls.

**REMOVAL AND DISPOSAL OF EXISTING BRIDGE**  
The existing bridge shall be removed and, at the Contractor's option, existing concrete and stone removed may be used as embankment protection material, as directed by the Engineer, providing that the material meets the gradation requirements of Section 601.08. Any protruding reinforcing steel shall be burned off at the surface of the concrete. Unusable masonry and other debris shall be disposed of as per Section 202.02.

**DESIGN DATA FOR BRIDGE**  
Design Loading: HS20

**WATERPROOFING MEMBRANE**  
Refer to ODOT Proposal Note 445-91 with the following revision.  
The paragraph titled "Description" shall read:

This item shall consist of furnishing all necessary labor, materials and equipment to prepare the surface and place a waterproof TYPE 2, 36" wide membrane over the top surface and a TYPE 2, 12" wide membrane over the vertical joints. The joint between the wingwalls and the sides of the four sided structure to be covered by a 36" wide membrane. The membrane shall extend a minimum of 2 feet down each side and overlap the membrane covering the vertical joints. The 36" wide membrane shall also extend 8" up the face of all slab walls.

**ALLOWABLE SOIL BEARING PRESSURE**  
The allowable soil bearing pressure is 2,000 p.s.f.

**PROPOSED STRUCTURE**

**ADDITIONAL EMBANKMENT/BACKFILL MATERIAL**  
Lump Sum bid for ITEM 603, PRECAST CONCRETE BOX, shall include any necessary embankment or backfill material required between the Proposed Structure and the excavation limits from ITEM 202, Structure Removed.

**CAST IN PLACE ALTERNATE**  
The Contractor may cast in place the wingwalls and footings in accordance with the STANDARD TABLE shown on the TYPICAL SECTION SHEET

**ITEM 603 CONDUIT, TYPE A, 706.05**  
Lump Sum bid shall include all Footings, Wingwalls, & Sub Walls (As Per Plan)

**REINFORCING STEEL**

All reinforcing steel used in footings and wingwalls shall be GRADE 60 and EPOXY COATED if Cast in Place Method is Used. Epoxy Coating to conform to Item 709.00

DEPARTMENT OF HIGHWAYS HENRY COUNTY, OHIO			
<b>GENERAL NOTES</b>			
BRIDGE NO. HEN U-8.60 OVER DITCH 946 FREEDOM TWP.			
Designed: HEN CO. ENG.	Drawn: S.J.K.	Checked: R.L.G.	File Name: P:\1999531-04\946.WPG