

# GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4  
78

MUSKINGUM COUNTY  
TWP. RD. 47  
CO. RD. 60

## FIELD OFFICE:

The Contractor shall, in addition to the requirements of 105.152, provide a suitable field office having a minimum of 150 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project. The Contractor shall also provide and maintain sanitary provisions as per 107.06. All the above is included in the lump sum price bid for Field Office.

## DRIVE LOCATIONS:

Drive locations on this project may be adjusted at the direction of the Engineer provided there is no additional cost to the State.

## ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS:

The rounded corners shown on Standard Drawing MC-1 apply to all cross sections, even though otherwise shown on these plans.

## UNDERGROUND UTILITIES:

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio does not guarantee their accuracy or completeness.

## UTILITY OWNERS:

POWER: Ohio Power Co., Canton, Ohio  
POWER: Guernsey-Muskingum Electric Co-op, New Concord, Ohio  
TELEPHONE: Ohio Bell, Zanesville, Ohio  
GAS: National Gas, Newark, Ohio

## ESTIMATED QUANTITIES:

Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project. *Materials to be used "as directed by the Engineer" shall not be delivered to the project until requested by the Engineer.*

## CONSTRUCTION LAYOUT STAKES:

See note in proposal describing the work included in this lump sum pay item.

## SUPERELEVATION:

Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in the portion between the beginning of the transition and the point where the superelevation equals twice the crown.

## FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS:

The Contractor shall furnish, erect, maintain and subsequently remove Federal Aid Construction Identification Signs at each of the following approximate locations: 1. Sta. 68+50 on the Right  
2. Sta. 99+50 on the Right

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-34 (0) - 96(2)" modified by deleting reference to "Your Highway Taxes at Work", "Federal Highway Trust Funds", "State Highway Funds", and "Ohio Department of Highways" and inserting in their respective positions "Your Highway Funds At Work", "Appalachian Highway Funds", "State Funds", and "State of Ohio".

The signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

## CROSS SECTIONS TO BE RE-RUN:

The Cross Sections between Sta. 105+00 ± and Sta. 115+00 on the Right side of the centerline only, shall be re-cross sectioned in the field by State Forces prior to construction.

## REMOVAL OF TREES AND STUMPS:

All trees and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201 Clearing and Grubbing, except that those trees for which protection and preservation work is indicated elsewhere in these plans shall not be removed.

The following is an approximate estimate of the number of trees and stumps to be removed:

SIZES	18"	30"	48"	60"
TREES	268	33	5	
STUMPS	12	13	2	

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201 Clearing and Grubbing.

## SEEDING:

Quantities for seeding are calculated for the soil areas between the work limits, as shown on the cross sections.

## SPECIAL SEEDING PREPARATION AREAS:

The reference in the first paragraph of 659.09 to preparation of the seed bed in front of residences etc., shall on this project be considered to be particularly applicable to all areas listed in 659.09 in addition to the following areas:

Sta. 104+46 to Sta. 105+50 Rt. Sta. 187+50 to Sta. 190+00 Lt.  
Sta. 149+50 to Sta. 154+00 Rt.  
Sta. 171+50 to Sta. 174+50 Rt.  
Sta. 181+00 to Sta. 183+00 Lt.  
Sta. 184+50 to Sta. 189+00 Rt.

## EROSION CONTROL:

Item 601 Dumped Rock is provided in the plans for Erosion Control. Rock of a suitable nature will not be removed in order to place any of this item. The Engineer shall check and non-perform quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

## CONNECTIONS TO EXISTING PIPE:

At places where the plans provide for proposed pipe to be connected to existing pipe, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid for the pertinent 603 conduit item.

## ITEM 605 AGGREGATE DRAINS:

Aggregate drains shall be placed at fifty (50) foot intervals on each side of normal crowned sections and at twenty-five (25) foot intervals on the low side only of superelevated sections.

An aggregate drain shall be placed at the low point of each sag vertical curve.

## SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS:

This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new drainage into the highway drainage system when such drains carry flow from any plumbing fixtures including floor drains and sink drains from livestock lots or barns or polluted water of any kind.

Existing pipe carrying flow which comes within the category outlined above shall be plugged with Class E concrete at the right-of-way line. Payment for said plugging shall be included in the unit price bid for Item 203 Excavation.

## REMOVAL OF EXISTING PIPE:

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

## DUST CONTROL:

In accordance with 616 of the Construction and Materials Specifications 15 tons of 616 Calcium Chloride for Dust Control and 15 M. Gal's. of 616 Water have been included in the General Summary for Dust Control.

## PLACEMENT OF ASPHALT CONCRETE:

Two-way traffic shall be maintained at all times except that one-way traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphalt concrete courses.

## PART-WIDTH CONSTRUCTION:

Because of the necessity of building portions of this project under traffic and constructing the pavement part at a time, extreme care shall be taken to prevent the construction of a butt joint on centerline in the 304 and 310 courses.

This shall be accomplished by building the 304 and 310 courses placed with the first portion of the pavement built, at least eighteen (18) inches beyond the centerline and by surfacing no closer than eighteen (18) inches to this edge of the above course. When the second portion of the pavement is built, at least twelve (12) inches of these projecting courses shall be broken down and thoroughly keyed in with the newly placed corresponding courses in the second portion of the pavement built. Payment for this operation shall be included in the unit prices bid for the pertinent pavement items.

## SPRING DRAINS:

Reference is made to the detailed drawing on Sheet No 3 showing the method of draining any spring that may be shown on the plan or encountered during construction as determined by the Engineer. The following estimated quantities have been included in the General Summary for this purpose:

Item 605 6" Unclassified Pipe Underdrain, 707.06 or 707.12, as per plan 100 Lin. Ft.  
Item 605 Aggregate Drains for Springs, as per plan 15 Lin. Ft.

The Contractor shall not order materials for "Spring Drains" until authorized by the Engineer and in the event no springs are encountered, the item shall be non-performed.

## TRAFFIC:

Two-way traffic shall be maintained at all times by use of the existing pavement, the proposed pavement & half-width construction from S.R. 146 Intersection to Sta. 94+00. From Sta. 104+00 ahead, local traffic shall be maintained as per 104.04.

The following are estimated quantities for maintaining traffic:

### ESTIMATED QUANTITIES

410 Traffic Compacted Surface Type A or B 1450 Cu. Yds.  
410 Traffic Compacted Surface Type C 1450 Cu. Yds.  
616 Calcium Chloride 30 Tons

*It is not intended that temporary roadways be used exclusively for maintaining traffic on this project but that maximum usage be made of existing and proposed pavements.*

*The limits and duration of use of temporary roadways shall be held to an absolute minimum, and in all cases shall be subject to the approval of the Engineer.*

## GUARD RAIL, TYPE 4, MODIFICATION A AS PER PLAN

The post spacing for Type 4 guard rail modification A as per plan shall be at 12'6" intervals without spacer blocks attached between the posts and rail elements. Both ends of the guard rail shall be constructed with the new guard rail approach end assemblies as detailed on plan Sheet No. 70.

Type 4 guard rail with post spacing at 12'6" including the new approach end assemblies will be paid for as 606 Guard Rail Type 4 modification A as per plan.

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