

# GENERAL NOTES

## 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.

## GUARDRAIL POST HOLES

ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS SHALL BE FILLED WITH GRANULAR MATERIAL OR EXCESS MATERIAL FROM BERM RESHAPING. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. MATERIAL PLACED IN HOLES SHALL BE THOROUGHLY COMPACTED. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE GUARDRAIL ITEM.

## PROTECTION OF INCOMPLETE WORK

ANY HAZARD DURING NON-WORKING HOURS SHALL BE ADEQUATELY PROTECTED WITH CONCRETE BARRIER, DRUMS, BARRICADES OR AS DIRECTED BY THE ENGINEER.

PAYMENT FOR SUCH WORK REQUIRED WILL BE CONSIDERED AS INCIDENTAL AND INCLUDED IN THE PROPER GUARDRAIL/CONCRETE BARRIER INSTALLATION ITEMS.

## ITEM 606 - ANCHOR ASSEMBLY, TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING AN ET-2000, OPTION "B", GUARDRAIL END TERMINAL AS MANUFACTURED BY SYRO STEEL COMPANY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 216-545-4373).

THE LENGTH OF THE ET-2000 SYSTEM IS CONSIDERED TO BE 50', INCLUSIVE OF TWO 25' LONG RAIL ELEMENTS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND AT THE LOCATIONS SHOWN IN THE PLANS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 606, EACH, ANCHOR ASSEMBLY, TYPE E AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL THE RELATED HARDWARE, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

## PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE REMOVAL OF THE EXISTING ASPHALT UNDER GUARDRAIL USING ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION AND PAVING UNDER THE GUARDRAIL USING ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, UNDER GUARDRAIL, TYPE 1, PG 64-22, AS PER PLAN.

ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION SHALL CONSIST OF REMOVING THE EXISTING ASPHALT UNDER GUARDRAIL, TOPSOIL, LEVELING AND GRADING THE AREA AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 203.05.

THE TYPE 6 CURB SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE CURB SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 609 - CURB, TYPE 6.

HERBICIDE SHALL BE TREFLAN E. C., SPIKE OR AN APPROVED EQUAL AND SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

ONLY PROPERLY LICENSED PERSONNEL SHALL APPLY HERBICIDES AS REQUIRED BY THE OHIO REVISED CODE.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING 3" OF ITEM 448 USING ONE OF THE FOLLOWING METHODS:

METHOD A:           1) SET GUARDRAIL POSTS  
                          2) PLACE ITEM 448

METHOD B:           1) PLACE ITEM 448  
                          2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)  
                          3) SET GUARDRAIL POSTS

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