

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

SPRING DRAINS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR DRAINING ANY SPRINGS SHOWN IN THE PLAN OR ENCOUNTERED DURING CONSTRUCTION. THE FOLLOWING TYPES OF PIPES MAY BE USED: 707.41; ASTM D3034 SDR 35, 707.42 OR 707.33 PERFORATED PER 707.31.

SPRING DRAINS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD CONSTRUCTION DRAWING DM 1.1 AND PAID FOR AT THE CONTRACT PRICE FOR:

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN, WITH FABRIC WRAP	100 LIN. FT.
ITEM 605 - AGGREGATE DRAIN	100 LIN. FT.
ITEM 605 - 6" CONDUIT, TYPE F	100 LIN. FT.

UNTREATED SEPTIC CONNECTIONS

THIS PLAN MAKES NO PROVISIONS FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY UNTREATED SEPTIC DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM. ANY PIPE CARRYING UNTREATED SEPTIC FLOW SHALL BE PLUGGED WITH CLASS C CONCRETE AT THE RIGHT OF WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR (ITEM 203 EXCAVATION) (THE PERTINENT 202 ITEM).

TREATED SEPTIC CONNECTIONS

TREATED SEPTIC FLOW MAY BE DISCHARGED INTO THE HIGHWAY DRAINAGE SYSTEM PROVIDED THE OWNER HAS ACQUIRED AN OFFICIAL PERMIT FROM THE LOCAL AUTHORITY.

IN EACH CASE WHERE A PERMIT HAS BEEN ISSUED FOR MAKING A TREATED SEPTIC CONNECTION INTO A HIGHWAY DRAINAGE CONDUIT, AN INSPECTION WELL SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DM-3.1 .

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE CONNECTIONS:

ITEM 603 6" CONDUIT, TYPE B	100 LIN. FT.
ITEM 603 6" CONDUIT, TYPE C	100 LIN. FT.
ITEM 604 INSPECTION WELL	2 EACH

REVIEW OF DRAINAGE FACILITIES

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 THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 690 - SPECIAL, MISCELLANEOUS: VIDEOTAPING OF EXISTING STORM SEWERS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VIDEOTAPING THE EXISTING STORM SEWERS TO BE ABANDONED FOR PURPOSES OF DOCUMENTING ALL HOUSE / BUILDING CONNECTIONS. ALL EXISTING STORM CONNECTIONS SHALL BE PROVIDED A POSITIVE OUTLET INTO THE NEW STORM SYSTEM.

VIDEOTAPING SHALL BE PERFORMED AND TWO (2) COPIES SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO PLUGGING AND ABANDONING THE EXISTING CONDUIT.

LOCATIONS FOR STORM SEWERS TO BE ABANDONED WHICH REQUIRE VIDEOTAPING ARE AS FOLLOWS:

U.S. 20 -
STA. 68+00 TO STA. 91+00, LT. = 2300 L.F.
STA. 168+00 TO STA. 180+50, RT. = 1250 L.F.
STA. 275+00 TO STA. 280+00, LT. = 500 L.F.

U.S. 20 -
STA. 281+51 TO STA. 286+90, LT. = 539 L.F.
STA. 405+82 TO STA. 410+13, LT. = 431 L.F.
STA. 487+85 TO STA. 503+74, RT. = 1589 L.F.
LANE ROAD -
STA. 16+63 TO STA. 19+45, LT. = 282 L.F.
CENTER ROAD -
STA. 7+04 TO STA. 8+67, RT. = 163 L.F.
7054 L.F.

THIS QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR VIDEOTAPING OF EXISTING STORM SEWERS:

ITEM 690 - SPECIAL, MISCELLANEOUS: VIDEOTAPING OF EXISTING STORM SEWERS	7054 L.F.
---	-----------

THE ESTIMATED QUANTITY FOR PROVIDING POSITIVE DRAINAGE OUTLETS AS NOTED ABOVE IS INCLUDED IN THE RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS SECTION.

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 PS46 MIN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

ITEM 603 6" CONDUIT, TYPE B	200 LIN. FT.
ITEM 603 6" CONDUIT, TYPE C	600 LIN. FT.

ITEM 604, CASTINGS ADJUSTED TO GRADE, AS PER PLAN

ALL MANHOLES, INLET BASINS AND OTHER CASTINGS ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO GRADE. ADJUSTING RINGS SHALL NOT BE AN ACCEPTED MEANS OF ADJUSTING CASTINGS. BRICK USED FOR ADJUSTING TO GRADE SHALL BE CLAY OR SHALL BE BRICK MEETING THE REQUIREMENTS OF ASTM C 32 SEWER BRICK GRADE SM. CONCRETE BRICK OR MASONRY BLOCK SHALL NOT BE USED. OTHERWISE ALL WORK SHALL BE IN ACCORDANCE WITH ITEM 604.

ITEM SPECIAL, MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL GRATES SHALL BE BICYCLE SAFE AND ALL MATERIALS SHALL MEET ITEM 604 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL	1000 LBS.
------------------------------	-----------

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

PAVEMENT

ITEM 407 - TACK COAT AND ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

407, TACK COAT	0.10 GAL. PER SQ. YARD
407, TACK COAT FOR INTERMEDIATE COURSE	0.05 GAL. PER SQ. YARD

ITEM 304 - AGGREGATE BASE, AS PER PLAN

THE ONLY SLAG MATERIALS PERMITTED FOR THIS ITEM SHALL BE CRUSHED AIR-COOLED BLAST FURNACE SLAG, A MIXTURE OF CRUSHED AND GRANULATED SLAGS, OR OPEN HEARTH SLAG FROM APPROVED SOURCES ON FILE AT THE LABORATORY.

ALL MATERIALS OR BLENDED MATERIALS SHALL MEET THE GRADATION REQUIREMENTS OF 304.02

ANY GRANULATED SLAG MATERIAL USED SHALL MEET THESE GRADATION REQUIREMENTS IN LIEU OF 703.08.

ITEM 452-6" PLAIN CONCRETE PAVEMENT, AS PER PLAN
ITEM 452-8" PLAIN CONCRETE PAVEMENT, AS PER PLAN

THESE ITEMS SHALL BE USED TO CONSTRUCT DRIVEWAY APRONS AT LOCATIONS WHERE CURE TIMES MUST BE MINIMIZED. ALL REQUIREMENTS OF ITEM 452 SHALL APPLY EXCEPT THE CONCRETE MIX SHALL BE CLASS MS IN ACCORDANCE WITH SECTION 499.032 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

**ENVIRONMENTAL WORK (LAK - 20 - 18.72, PID 20343)**

1.1 Introduction

Environmental studies have shown there is a possibility of encountering petroleum-contaminated materials during excavations at the following locations:

- H & H Used Cars, 1870 US-20, SW corner of US-20/Bacon-Bowhall Road
- Qua Liddy Auto Body, 3892 US-20, SW corner of US-20/Center Road

In the event these materials are encountered within the aforementioned limits, the Contractor shall manage this material according to the following notes. The estimated quantity has been included in the General Summary for this work. All excavations within the aforementioned limits shall be paid for under the original plan bid items.

1.2 Material Handling

All material excavated by the Contractor between these limits may be stockpiled in an area provided by the Contractor and approved by the Engineer.

The Engineer may permit temporary storage of the excavated material in a lined and covered roll-off box.

The Engineer may permit temporary storage of the excavated material on an impermeable membrane. The membrane shall be surrounded by bales of straw to prevent the suspected soils from coming in contact with the original soils. An impermeable membrane shall be placed over the stockpile to prevent contact with precipitation and/or surface run-off.

The Engineer may permit the Contract to direct load the excavated contaminated material into trucks.

1.3 Material Sampling and Disposal

The Contractor shall properly transport and dispose of the excavated contaminated material in a licensed (by the local health department) and permitted (by the Ohio Environmental Protection Agency) solid waste facility. If required by the solid waste facility, the Contractor shall be responsible for conducting sampling and analysis of the excavated material.

1.4 General Notes

All transport vehicles used for the movement of regulated soils or water shall meet applicable Local, State, and Federal requirements. The Contractor shall maintain records (such as manifests, landfill tickets, daily logs, etc.) To document the source, movement, and destination of each truckload of contaminated soil. One copy of each of these records shall be submitted to the Engineer.

1.5 Regulated Underground Storage Tank

Environmental studies have also shown there is a possibility of encountering a petroleum underground storage tank (UST) at the following location:  
Corner of US-20 and Hale Road (Kincade's Pet Center @ 15 Hale Road, STA 87 + 50).

If encountered, the Contractor shall remove the UST in accordance with ODOT CMS Item 202.

1.6 Basis of Payment

The Contractor shall furnish all the labor, equipment, and materials necessary to properly handle, store, test, transport, and dispose of regulated materials, remove one UST, including any required permits, approvals, or fees within the limits identified above. Payment for this work shall be made at the contract price bid per ton of each. The following estimated quantity has been included in the General Summary for the work noted above:

Item Special - (690E65010) - Work Involving Solid Waste	55
tons	
Item 202 - (E67000) - Regulated Underground Storage Tank	
Removed	1 Each

GENERAL NOTES

LAK-20-18.72