

2" CONDUIT UNDER CONCRETE SIDEWALK

I. Quantity

The base bid shall include the indicated number of feet of 2" conduit under sidewalk located as shown on the drawings.

II. Material

- a. Conduit - The non-metallic conduit shall be schedule 40 polyvinyl chloride. It shall be designed to form a sound, strong duct, free from defects. It shall be non-magnetic, resistant to corrosive action, unaffected by electrolysis and shall not soften, deform or deteriorate when exposed to the maximum safe operating temperature of cables. The inside surface of the conduit shall be smooth, and round and shall have a 2" nominal inside diameter. The conduit shall be Carlon, Heritage, Cantex heavy wall PV-duit plus or approved equal.
- b. Couplings - The couplings shall be of the same material as the conduit, and shall be sufficiently tight to prevent silt or concrete from entering the conduit.
- c. Spacers - Plastic base type for 2" conduit.
- d. Underground Hazard Tape
The underground hazard tape shall be 3" wide red plastic with the black legend "CAUTION ELECTRIC LINE BURIED BELOW." The tape shall be manufactured by T & B Panduit or approval equal.

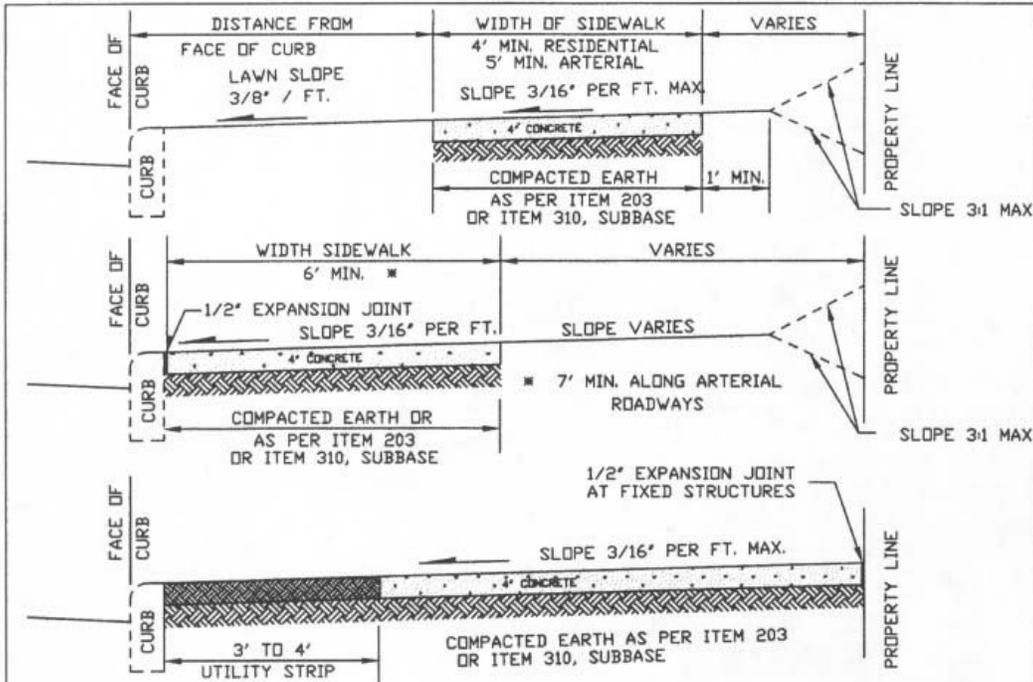
III. Installation DOE DWG 01S0020

- a. The conduit shall be installed as shown on the detailed drawings of conduit "under sidewalk".
- b. If the conduit is installed in an area to be paved under a separate item of this or another contract, backfill shall be appropriate for the paving indicated. No other surface restoration will be required.
- c. The trench shall be dug as indicated on the detailed drawings. The bottom of the trench shall be level and free of all stones and rocks. Excess material shall be disposed of by the Contractor as specified in Section 203.05 of the City of Columbus Construction and Materials Specifications.

- d. The centerline of the conduit runs shall be 36" back of the house side face of the curb unless otherwise specified on the drawings or as indicated by the engineer.
- e. The sidewalk shall be saw cut.
- f. After the duct lines are installed, a flexible mandrel not less than 12" long, having a diameter approximately 1/4" less than the conduit shall be pulled through each conduit after which a oversize conduit swab shall be pulled through to make certain there are no particles left in the conduit.
- g. Three spacers shall be installed under each 10' section of conduit. One in the middle and one on each end of the section to insure total encasement of the conduit.

IV. Quotation

The concrete encased 2" PVC conduits under concrete sidewalks, hereinbefore specified shall be quoted for as a unit price per lineal foot in the appropriate place of this document.



SIDEWALKS SHALL BE CONSTRUCTED WITH P.C. CONCRETE (CLASS C, ITEM 499) WHICH SHALL CONTAIN 5% TO 8% ENTRAINED AIR AND A 3" MAXIMUM SLUMP.

WHERE DRIVEWAYS CROSS THE SIDEWALK THE CONCRETE SHALL BE 6" THICK. SEE STANDARD DRAWING 2201 DR. A.

LENGTH AND SLOPE OF DRIVEWAY RAMPS ARE VARIABLE ACCORDING TO THE DISTANCE OF THE SIDEWALK FROM THE CURB, SEE STANDARD DRAWING 2201 DR. A.

ALL CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED WITH A WOOD FLOAT.

EXPANSION JOINTS SHALL BE PLACED WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION AND AT INTERVALS OF 30' OR LESS.

WATER AND GAS VALVES BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.

ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STANDARD DRAWING 2320 DR. A.

FORMS SHALL BE MADE OF LUMBER 2" NOMINAL THICKNESS OR OF EQUALLY RIGID METAL.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED IN AN APPROVED MANNER.

WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE LOT LINE, THE WALK SHALL BE CONSTRUCTED PART WIDTH 48" MIN. AT A TIME, ALLOWING FOR SUFFICIENT UN-OBSTRICTED AREA 48" MIN FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC.

NOTIFY THIS OFFICE WHEN FORMS WILL BE READY FOR INSPECTION, AT LEAST 24 HOURS BEFORE CONCRETE IS TO BE PLACED.

TELEPHONE 645-7497. IN NO CASE MAY CONCRETE BE PLACED WITHOUT APPROVAL OF FORM WORK BY THE INSPECTOR.

NO CONCRETE SHALL BE PLACED UNTIL TEMPERATURE IS 35° F. MIN. CONCRETE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 451.061 OF THE CURRENT EDITION OF THE COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ITEM NUMBERS REFER TO THE CITY OF COLUMBUS, OHIO STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS, TRANSPORTATION DIVISION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
TRANSPORTATION DIVISION

STANDARD SIDEWALKS ITEM 608 & SPECIFICATIONS

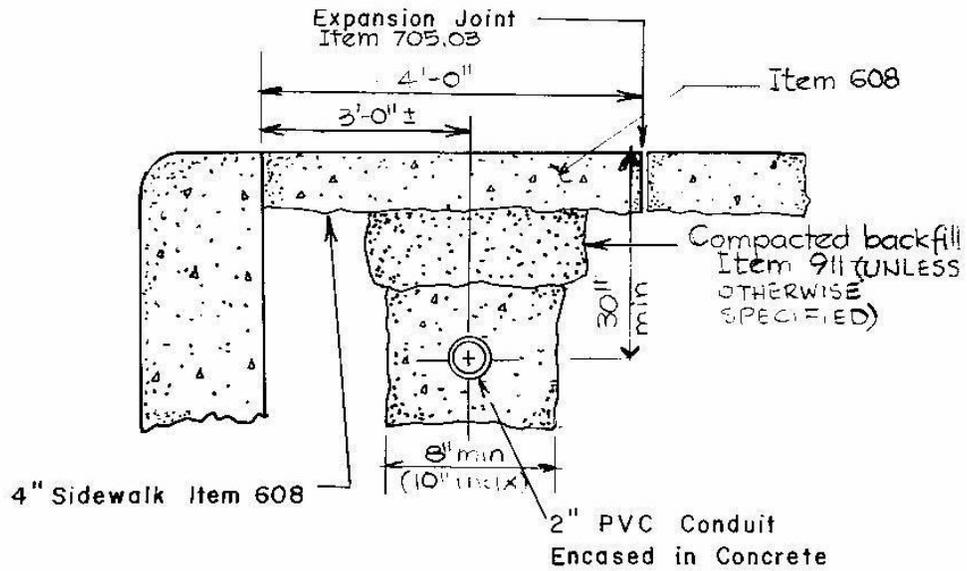
APPROVED:

[Signature]
CITY ENGINEER

10/10/02
DATE

REV. 07/15/02
REV. 10/01/01

2300 DR. A



NOTES

1. CONCRETE ENCASEMENT 3" MIN. ALL SIDES (4" MAX)
ITEM 499 CLASS C
2. ITEM NUMBER FROM THE CITY OF COLUMBUS
CONSTRUCTION AND MATERIALS SPECIFICATIONS

6/90
 7/92
 11/93
 REVISIONS

MEL&P

MUNICIPAL ELECTRIC LIGHT & POWER SYSTEM
CITY OF COLUMBUS, OHIO
DEPT. OF PUBLIC SERVICE DIV. OF ELECTRICITY

CONDUIT UNDER - CONCRETE SIDEWALK -

SCALE NONE

DRAWN

DRAWING NO.

PROJECT NO.

APPROVED

01S0020

SHEET 1 OF 1