CONDUIT ENTRANCE INTO MANHOLE/HANDHOLE

APPLICABLE TO SWITCHGEAR AND TRANSFORMER VAULTS

GENERAL

CONDUIT ENTRANCES INTO MANHOLES/HANDHOLES SHALL NORMALLY BE MADE WITH PLASTIC ENTRANCE BELLS PER FIGURE 1 OR 2. THE ENTRANCE CONDUIT SHALL BE PLASTIC OR STEEL ENCASED IN CONCRETE AS PER FIGURE 1 AND 2 BELOW, SPECIFIED BY THE ENGINEER ON THE CONSTRUCTION DRAWINGS.

POCKETS

DUCT POCKETS SHALL BE PROVIDED IN WALLS WHERE SPECIFIED ON CONSTRUCTION DRAWINGS. POCKET NOT REQUIRED ON NEWER STYLE MANHOLE DESIGNS (FIGURE 2). TYPICAL POCKET DIMENSIONS ARE INDICATED BELOW ON FIGURE 1. CONDUIT SPACING

CONDUIT SHALL NORMALLY BE SUPPORTED BY VERTICAL AND HORIZONTALLY INTERLOCKED PLASTIC SPACERS TO PROVIDE ALIGNMENT WITH PLASTIC ENTRANCE BELL UNITS AT 8 1/4 IN. SPACING. ENTRANCE BELL UNITS

PLASTIC 6 INCH ENTRANCE BELLS, DPU-E# 285-103-00100 SHALL BE USED ON CONDUIT ENTRANCES TO MANHOLES. ENTRANCE PIPES

GALVANIZED STEEL CONDUIT, M30-1550, SHALL BE USED FOR ALL BENDS. PIPES INTENDED FOR CABLES ON INITIAL INSTALLATION SHALL BE CAPPED WITH PLUGS (DPU-E# 285-103-00090) TO PREVENT CONTAMINATION FROM ENTERING THE PIPES.

Trees years

PLASTIC OR STEEL CONDUIT

EVERY EFFORT SHALL
BE MADE TO INSURE A WATERTIGHT INSTALLATION OF ENTRANCE PIPES. WHERE PIPES ARE
CLEANED, WETTED AND COVERED WITH A COATING OF 3 TO 1 SAND AND CEMENT MORTAR. IF BRICKWORK IS EXISTING ON THE
INNER FACE OF WALL, IT SHALL ALSO BE COATED WITH A SAND AND CEMENT MORTAR. AN ALTERNATE PROCEDURE IS TO DRILL
HOLES IN THE WALL AND GOOD THE PIPES IN PLACE WITH A SAND AND CEMENT MORTAR. THE INSIDE SURFACE OF THE HOLES
SHALL BE
ROUGHENED TO OBTAIN A STRONG AND WATERTIGHT BOND.

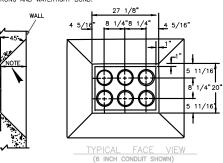


FIG. 1 MANHOLE ENTRANCE WITH PLASTIC TERMINATORS (OLDER STYLE)

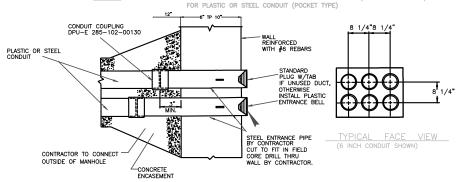
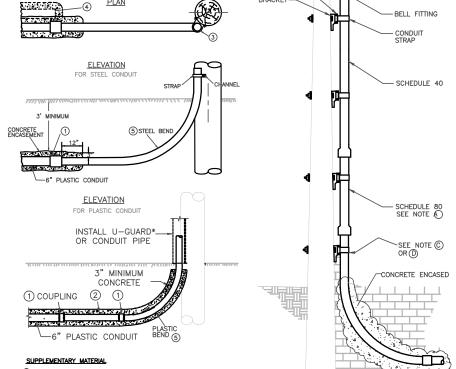


FIG. 2 ENTRANCE IN MANHOLE/HANDHOLE (NEWER STYLE)

NAPERVILLE PUBLIC	DUCTDANIK CONCTDUCTION	DATE: 04-24-07
UTILITIES DEPARTMENT	DUCTBANK CONSTRUCTION	Page 8 of 12
ELECTRIC STANDARDS	SPECIFICATION	C30-1900

CONDUIT TO RISER AT POLE

RISER CONSTRUCTION CONDUIT TO RISER AT POLE FOR PLASTIC OR STEEL CONDUIT APPLICATION THIS STANDARD SHALL BE USED WHEN A TRANSITION FROM A SINGLE DUCT TO SINGLE RISER PIPE IS REQUIRED. CHANNEL 12"--4 7.7.7.7.7.26E



IF BELLED END OF PLASTIC CONDUIT CAN BE CONNECTED TO STEEL BEND OMIT COUPLING.

NOTES:

A). FIRST SECTION ABOVE ELBOW MUST BE SCHEDULE 80.

B). FOR LARGER POLES (>50'), ADDITIONAL CONDUIT AND HARDWARE MAY BE REQUIRED.

C). STEEL BEND AND POLE BRACKET EXISTING FROM PREVIOUS DUCT BANK INSTALLATION.

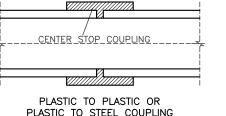
- D). INSTALL STEEL BEND AND POLE BRACKET AND CHANNEL.
- INSTALL SPARE OF CONDUIT UP POLE WITH BEND, ATTACH TO BRACKET AND PLUG.
- 2) FIELD CUT SO THAT A GOOD CONNECTING FIT CAN BE MADE BETWEEN THE CONDUITS AND BENDS.
- 3 LOCATE THE BEND ON A QUADRANT OF THE POLE WHERE IT IS THE LEAST SUSCEPTIBLE TO DAMAGE BY VEHICLES.
- (4) IF SPARE DUCT IS INSTALLED, PLUG AT BOTH ENDS AND ENCASE IN CONCRETE WHEN NECESSARY. (5) SCHEDULE 80 PVC DOES NOT REQUIRE CONCRETE ENCASEMENT.
- 6 CONDUIT TO A U-GUARD* RISER FOLLOWS C20-5222, FOR USE AS MAINTENANCE ONLY.

NAPERVILLE PUBLIC DATE: 04-24-07 DUCTBANK CONSTRUCTION UTILITIES DEPARTMENT **SPECIFICATION** LECTRIC STANDARDS

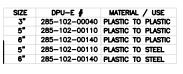
INFORMATION

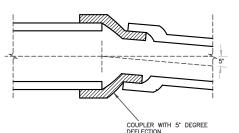
SECTION F.A.P. RTE. COUNTY DUPAGE 338/IL 59 2011-035-I CONTRACT 60P42 FED.ROAD.DIST.NO. ILLINOIS FED. AID PROJECT

PLASTIC CONDUIT COUPLINGS SUBTITLE LINE TWO



PLASTIC TO STEEL COUPLING





PLASTIC TO PLASTIC 5' COUPLING ATERIAL / USE

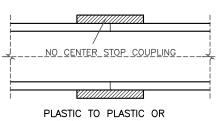
SIZE	DPU-E #	MATERIAL / USE
3"	285-102-00050	PLASTIC TO PLASTIC
5"	285-102-00120	PLASTIC TO PLASTIC
6"	285-102-00150	PLASTIC TO PLASTIC

UTILITIES DEPARTMENT

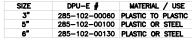
LECTRIC STANDARDS

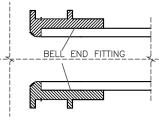
PLUG W/PULL TAB

SIZE	DPU-E #
3"	285-103-00030
5"	285-103-00070
6"	285-103-00090



PLASTIC TO STEEL SLEEVE

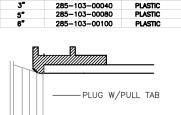




PLASTIC BELL END FITTINGS DPU-E #

SIZE

SPECIFICATION



THE 6" EXPANDING PLUG W/EYE NUT DPU-E# 285-103-00150

NAPERVILLE PUBLIC DUCTBANK CONSTRUCTION

DATE: 04-24-07

MATERIAL

PROJECT TITLE	1 1 0)UTE	59 R	ROAD	IMPR	OVEME	ENTS		
PROJECT DESCRIPTION DETAILS AND STANDARDS									
ENGINEER BCC		DRAFTING DATE 5-11		мар # 4211,42		N.T.S			
GIS DESIGN BY	DRAFTED BY	REVISIONS DATE	E	AT&T JOINT AG	REEMENT #	PROJECT #			
DL	PSM			N/	A	EÜ−1	2		
CHECKED BY	PSM	APPROVED BY		N/. CAD FILE 006064800	A ID130.DWG	SHEET #			