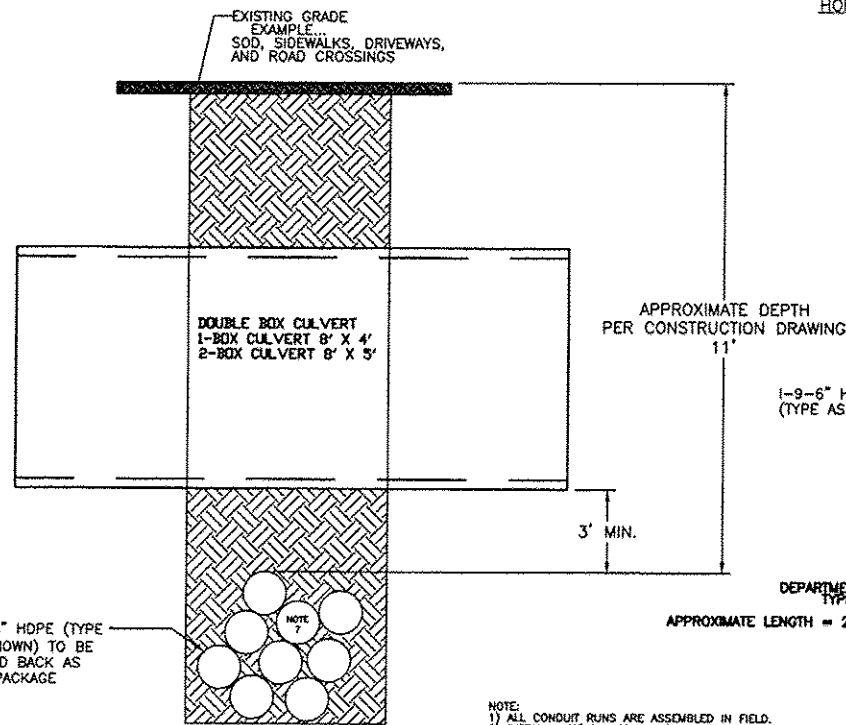
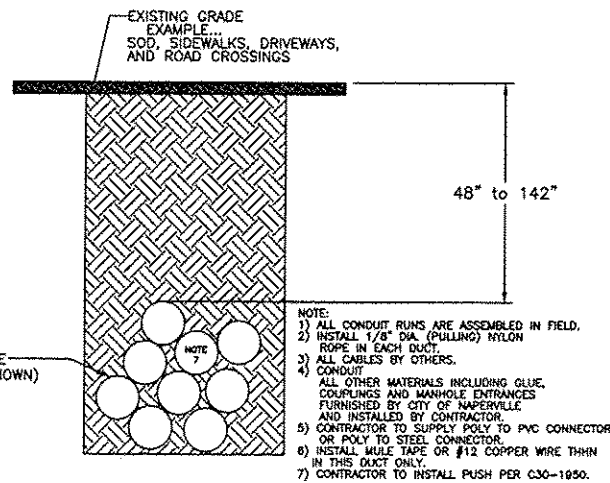


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-033-1	DUPAGE		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT 60P42		
		FED. AID PROJECT		

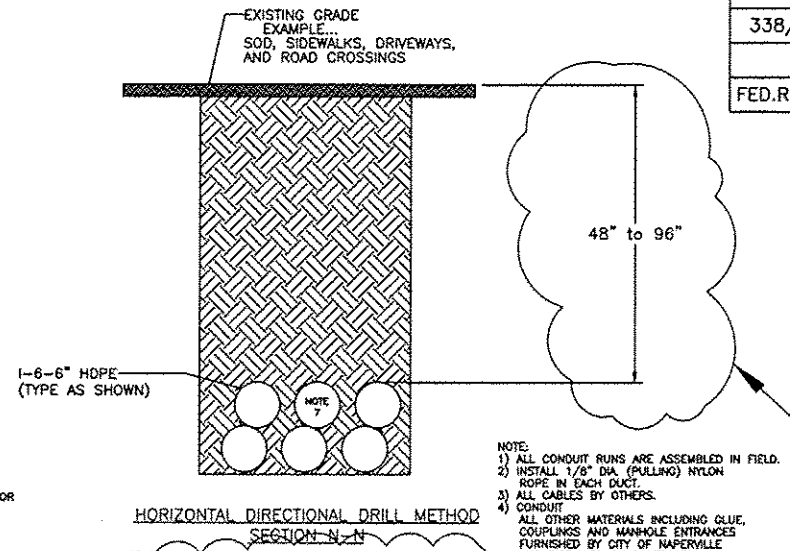
HORIZONTAL DIRECTIONAL DRILLING METHOD 9-6" HDPE



HORIZONTAL DIRECTIONAL DRILLING METHOD 9-6" HDPE



HORIZONTAL DIRECTIONAL DRILLING METHOD 6-6" HDPE



HORIZONTAL DIRECTIONAL DRILL METHOD SECTION M-M

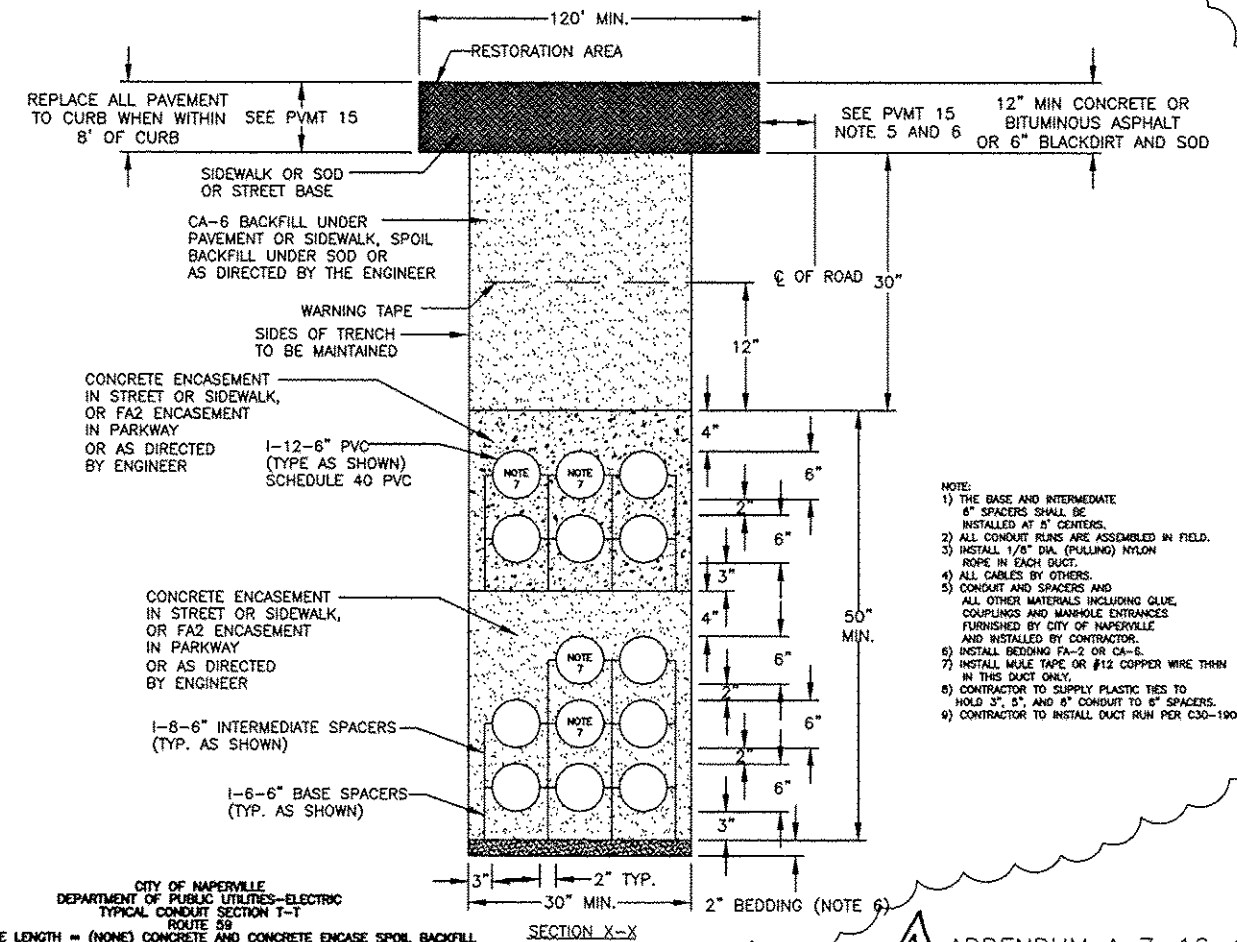
CITY OF NAPERVILLE
DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC
TYPICAL CONDUIT SECTION M-M
ROUTE 59
APPROXIMATE LENGTH = 210 FEET. HORIZONTAL DIRECTIONAL DRILL METHOD

CITY OF NAPERVILLE
DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC
TYPICAL CONDUIT SECTION N-N
ROUTE 59
APPROXIMATE LENGTH = 970 FEET. HORIZONTAL DIRECTIONAL DRILL METHOD

- NOTE:
- 1) ALL CONDUIT RUNS ARE ASSEMBLED IN FIELD.
 - 2) INSTALL 1/8" DIA. (PULLING) NYLON ROPE IN EACH DUCT.
 - 3) ALL CABLES BY OTHERS.
 - 4) CONDUIT ALL OTHER MATERIALS INCLUDING GLUE, COUPLINGS AND MANHOLE ENTRANCES FURNISHED BY CITY OF NAPERVILLE AND INSTALLED BY CONTRACTOR.
 - 5) CONTRACTOR TO SUPPLY POLY TO PVC CONNECTOR OR POLY TO STEEL CONNECTOR.
 - 6) INSTALL MULE TAPE OR #12 COPPER WIRE THIN IN THIS DUCT ONLY.
 - 7) CONTRACTOR TO INSTALL PUSH PER C30-1950.

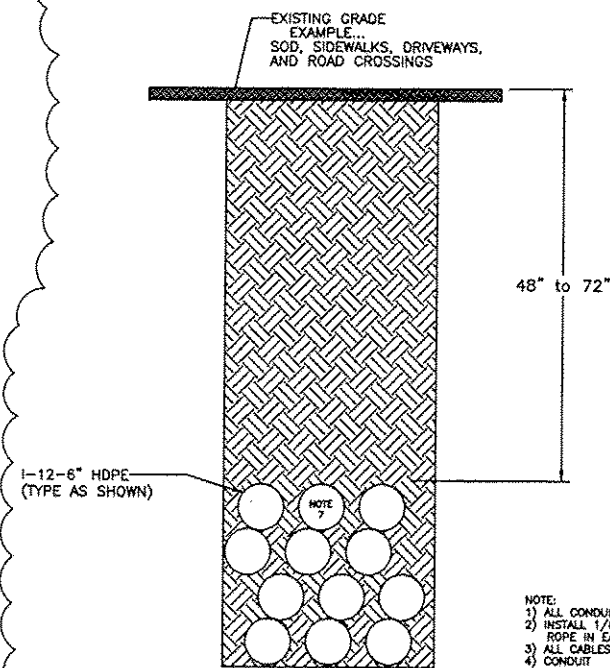
- NOTE:
- 1) ALL CONDUIT RUNS ARE ASSEMBLED IN FIELD.
 - 2) INSTALL 1/8" DIA. (PULLING) NYLON ROPE IN EACH DUCT.
 - 3) ALL CABLES BY OTHERS.
 - 4) CONDUIT ALL OTHER MATERIALS INCLUDING GLUE, COUPLINGS AND MANHOLE ENTRANCES FURNISHED BY CITY OF NAPERVILLE AND INSTALLED BY CONTRACTOR.
 - 5) CONTRACTOR TO SUPPLY POLY TO PVC CONNECTOR OR POLY TO STEEL CONNECTOR.
 - 6) INSTALL MULE TAPE OR #12 COPPER WIRE THIN IN THIS DUCT ONLY.
 - 7) CONTRACTOR TO INSTALL PUSH PER C30-1950.

14-WAY JOINT DUCT BANK WITH AT&T AND COM-ED - 5 HIGH BY 3 WIDE (6" DUCT)

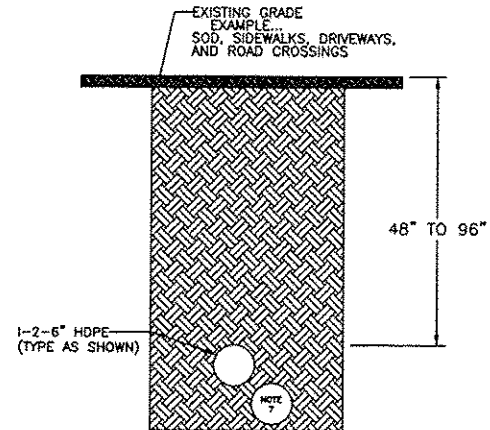


- NOTE:
- 1) THE BASE AND INTERMEDIATE 8" SPACERS SHALL BE INSTALLED AT 8" CENTERS.
 - 2) ALL CONDUIT RUNS ARE ASSEMBLED IN FIELD.
 - 3) INSTALL 1/8" DIA. (PULLING) NYLON ROPE IN EACH DUCT.
 - 4) ALL CABLES BY OTHERS.
 - 5) CONDUIT AND SPACERS AND ALL OTHER MATERIALS INCLUDING GLUE, COUPLINGS AND MANHOLE ENTRANCES FURNISHED BY CITY OF NAPERVILLE AND INSTALLED BY CONTRACTOR.
 - 6) INSTALL BEDDING FA-2 OR CA-E.
 - 7) INSTALL MULE TAPE OR #12 COPPER WIRE THIN IN THIS DUCT ONLY.
 - 8) CONTRACTOR TO SUPPLY PLASTIC TIES TO HOLD 3", 5", AND 8" CONDUIT TO 8" SPACERS.
 - 9) CONTRACTOR TO INSTALL DUCT RUN PER C30-1900.

HORIZONTAL DIRECTIONAL DRILLING METHOD 12-6" HDPE



HORIZONTAL DIRECTIONAL DRILLING METHOD 2-6" HDPE



- NOTE:
- 1) ALL CONDUIT RUNS ARE ASSEMBLED IN FIELD.
 - 2) INSTALL 1/8" DIA. (PULLING) NYLON ROPE IN EACH DUCT.
 - 3) ALL CABLES BY OTHERS.
 - 4) CONDUIT ALL OTHER MATERIALS INCLUDING GLUE, COUPLINGS AND MANHOLE ENTRANCES FURNISHED BY CITY OF NAPERVILLE AND INSTALLED BY CONTRACTOR.
 - 5) CONTRACTOR TO SUPPLY POLY TO PVC CONNECTOR OR POLY TO STEEL CONNECTOR.
 - 6) INSTALL MULE TAPE OR #12 COPPER WIRE THIN IN THIS DUCT ONLY.
 - 7) CONTRACTOR TO INSTALL PUSH PER C30-1950.

- NOTE:
- 1) ALL CONDUIT RUNS ARE ASSEMBLED IN FIELD.
 - 2) INSTALL 1/8" DIA. (PULLING) NYLON ROPE IN EACH DUCT.
 - 3) ALL CABLES BY OTHERS.
 - 4) CONDUIT ALL OTHER MATERIALS INCLUDING GLUE, COUPLINGS AND MANHOLE ENTRANCES FURNISHED BY CITY OF NAPERVILLE AND INSTALLED BY CONTRACTOR.
 - 5) CONTRACTOR TO SUPPLY POLY TO PVC CONNECTOR OR POLY TO STEEL CONNECTOR.
 - 6) INSTALL MULE TAPE OR #12 COPPER WIRE THIN IN THIS DUCT ONLY.
 - 7) CONTRACTOR TO INSTALL PUSH PER C30-1950.

APPROXIMATE LENGTH = (NONE) CONCRETE AND CONCRETE ENCASE SPOIL BACKFILL
APPROXIMATE LENGTH = (NONE) CONCRETE AND CONCRETE ENCASE CA-8 BACKFILL
APPROXIMATE LENGTH = 400 FEET CONCRETE AND (FA-2 ENCASED) SPOIL BACKFILL
APPROXIMATE LENGTH = (NONE) CONCRETE AND (FA-2 ENCASED) CA-8 BACKFILL

ADDENDUM A 7-16-12

PROJECT TITLE				ROUTE 59 ROAD IMPROVEMENTS			
PROJECT DESCRIPTION				DETAILS AND STANDARDS			
ENGINEER	BCC	DRAWING DATE	5-11-12	MAP #	4211,4212,4223	SCALE	N.T.S.
DESIGN BY	DL	DRAFTED BY	PSM	AT&T JOINT AGREEMENT #	N/A	PROJECT #	EU-12
CHECKED BY		APPROVED BY		CAD FILE	6050648001018.DWG	SHEET #	18 OF 63
Naperville				Department of Public Utilities Electric Division			
				WORK REQUEST # 60468			