

GENERAL NOTES:

- ALL WORK AND MATERIAL SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007.
- CONSULT AND COORDINATE WITH ALL TRADES AND AUTHORITIES INVOLVED TO AVOID INTERFERENCE WITH EXISTING AND NEW UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL EXERCISE UTMOST CARE IN EXCAVATING AND BACKFILLING THE TRENCHES TO AVOID CUTTING OR DAMAGING EXISTING UNDERGROUND UTILITIES AS SHOWN ON COMPOSITE UTILITIES.
- ALL CONDUIT, EQUIPMENT AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTIONS IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THE LUMINAIRES MAY REQUIRE NIGHTTIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPROPRIATE LUMINAIRE PAY ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.
- CONDUIT AND UNIT DUCT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCTS AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE CITY. COORDINATE RACEWAY DEPTHS WITH THE DETAILS AND THE ENGINEER.
- CONDUIT PUSHED AND IN TRENCH SHALL EXTEND (2') BEYOND THE SHOULDER, CURB, BARRIER WALL AND/OR GUARDRAIL, AS APPLICABLE.
- WHERE THE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- ALL PITS USED FOR INSTALLING PUSHED (JACKED) STEEL CONDUITS UNDER EXISTING ROADWAYS SHALL BE LOCATED 5'-0" (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET THE MOTORISTS. THE CONTRACTOR SHALL SUBMIT PLANS FOR THE LOCATION AND SIZE OF EACH PIT AND MAINTENANCE AND PROTECTION OF TRAFFIC AT THE SITE OF EACH PIT FOR THE APPROVAL OF THE ENGINEER BEFORE THE EXCAVATION OF ANY PIT MAY BEGIN.
- ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURB AND CUTTER, SIDEWALKS, AND WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL CONDUCTORS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE LIGHTING UNITS.
- GROUNDING CONNECTIONS AT ALL EQUIPMENT FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, UNLESS NOTED OTHERWISE, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE QUANTITIES OF RIGID GALVANIZED STEEL CONDUIT WHERE INDICATED ON THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH THE COMED REQUIREMENTS FOR MAINTAINING THE MINIMUM CLEARANCE BETWEEN THE TEMPORARY AND PROPOSED LIGHTING UNITS AND EXISTING COMED POWER POLES AND LINES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES, EVEN THOUGH THEY MAY NOT APPEAR ON THE PLANS. ANY DAMAGE DONE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK AND COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION OF THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- PROPOSED ROADWAY LIGHTS SHALL HAVE A SETBACK OF 6'-0" FROM THE EDGE OF PROPOSED PAVEMENT TO THE FRONT OF THE LIGHT POLES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.

- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE BEEN CURED, AS APPROVED BY THE ENGINEER.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	143
FED/STATE DIST. NO. 7		LANDS	FED. AID PROJECT.	

* 98-00036-19-FP

CONTRACT NO. 83896

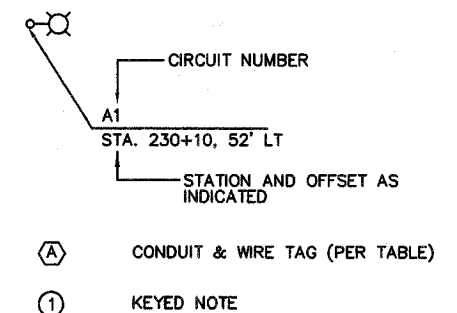
ABBREVIATIONS

SYMBOL	DESCRIPTION
A	AMPERE
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAL.	CALENDAR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTERLINE
C.E.CO.	COMMONWEALTH EDISON COMPANY
DIA.	DIAMETER
DWG	DRAWING
E	EXISTING UNIT TO REMAIN
ER	EXISTING UNIT TO BE REPLACED
ELEC.	ELECTRICAL
EQUIP.	EQUIPMENT
FT	FEET OR FOOT
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LT	LIGHT
LTG	LIGHTING
MA	MAST ARM
MISC.	MISCELLANEOUS
MO.	MONTH
MTG HT	MOUNTING HEIGHT
MTD	MOUNTED
MW	MESSANGER WIRE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE
P	POLE
PH, ∅	PHASE
PNL	PANEL
PRI.	PRIMARY
R	EXISTING UNIT TO BE REMOVED
RR	EXISTING UNIT TO BE REMOVED AND RELOCATED
RGSC	RIGID GALVANIZED STEEL CONDUIT
SEC.	SECONDARY
S.S.	STAINLESS STEEL
STA.	STATION
TYP.	TYPICAL
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING UNIT; POLE MOUNTED, SINGLE, TRUSS ARM AND 310W HPS LUMINAIRE. SEE DRAWING E-4 FOR LIGHT POLE DETAIL. 35 FT MOUNTING HEIGHT; 15 FT MAST ARM
	TEMPORARY LIGHTING UNIT 60 FT. CLASS 4, WOOD LIGHTING POLE WITH 15 FT TRUSS TYPE MAST ARM, AND 310W HPS LUMINAIRE
	EXISTING LIGHTING UNIT TO REMAIN
	UNIT DUCT IN TRENCH
	CONCEALED UNDERGROUND CONDUIT, PUSHED
	AERIAL CABLE WITH MESSENGER WIRE
	FREE STANDING LIGHTING CONTROL CABINET (DOOR SIDE AS INDICATED)
	WOOD POLE
	ELECTRIC UTILITY POLE
	CONNECTION TO GROUND ROD
	MOLDED CASE CIRCUIT BREAKER (600V, THERMAL-MAGNETIC TRIP, 1 POLE)
	MOLDED CASE CIRCUIT BREAKER (600V, THERMAL-MAGNETIC TRIP, 2 POLE)
	FUSE
	PHOTO-ELECTRIC CELL
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT

CALL-OUT SAMPLES



BILL OF MATERIALS			
IDOT PAY ITEM #	DESCRIPTION	UNIT	QUANTITY
81603200	UNIT DUCT, WITH 3-1/C NO. 2 & 1/C NO. 4 GND, 600V (EPR TYPE RHW), 1 1/4" POLYETHYLENE	FT	2056
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FT	362
83007600	LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EA	7
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FT	77
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FT	1567
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310W	EA	7
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EA	8
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EA	7
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL. MO.	24

CONDUIT AND WIRE TABLE			
TAG	WIRE	CONDUIT	REMARKS
A	UNIT DUCT WITH 3-1/C #2 & 1-1/C #4 GND. IN 1-1/2" C		TRENCHED, UNIT DUCT W/ EPR INSULATED CABLES
B	UNIT DUCT WITH 3-1/C #2 & 1-1/C #4 GND. IN 1-1/2" C	4" RGSC	PUSHED, UNIT DUCT W/ EPR INSULATED CABLES
C	-	4" RGSC	EMPTY PUSHED CONDUIT

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

	DESIGNED BY: JES CHECKED BY: KMY DRAWN BY: JES	SCALE: N.T.S.
--	--	------------------