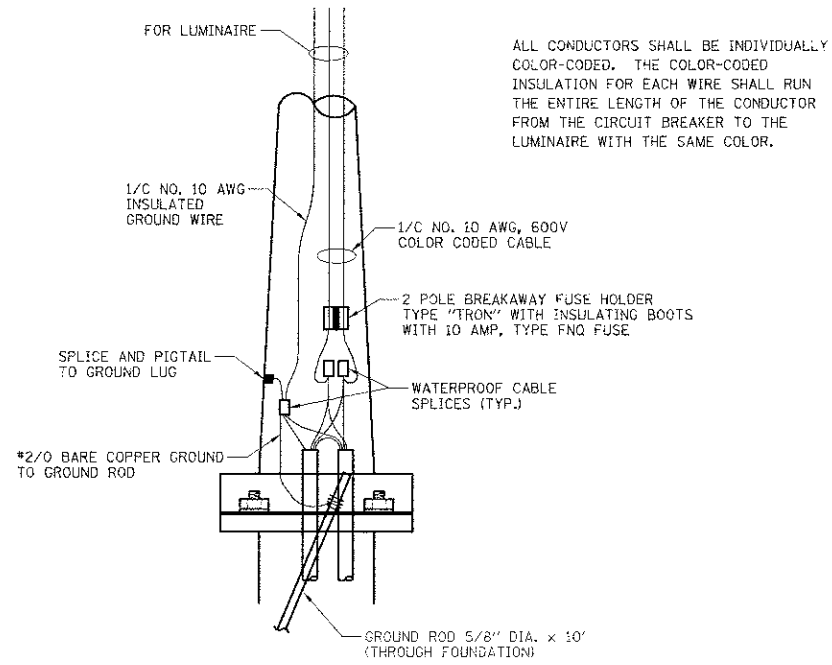
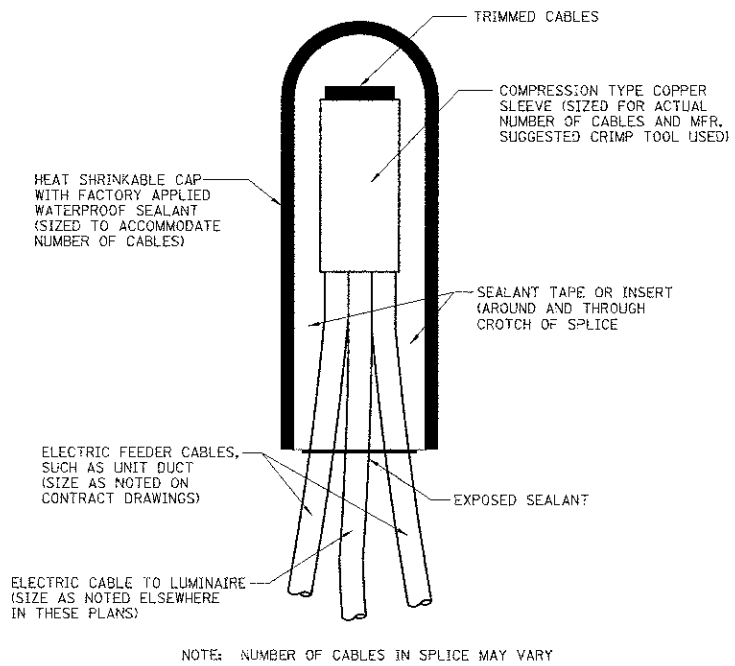


DATE	BY	REVISION
PLAN	SUBMITTED	DATE
	PLOTTED	
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	CHECKED	
	FILED	

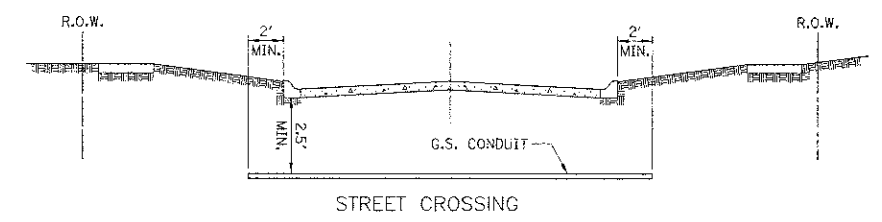
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ROADWAY POLE HANDHOLE WIRING DIAGRAM



SPlicing ELECTRIC CABLES
BASIC MATERIALS AND METHODS

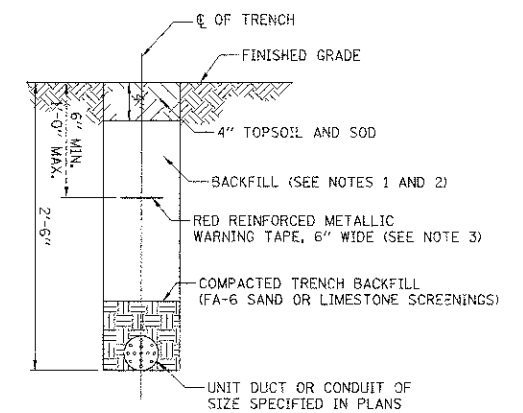


- CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
- CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.

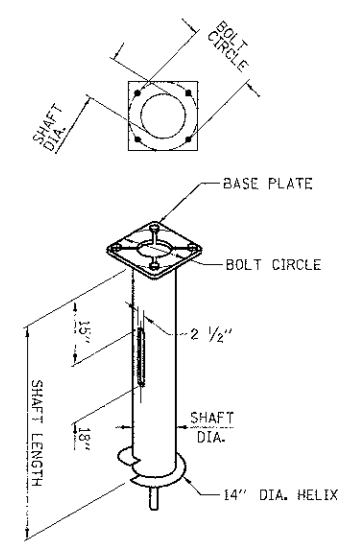
ELECTRICAL CONDUIT UNDER PAVEMENT

NOTES:

- IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
- TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
- WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
- ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.



TYPICAL TRENCH CROSS SECTION



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12" X 12" X 1"
31 FT. - 35 FT.	11 1/2"	8 5/8"	6 FT.	12" X 12" X 1"
36 FT. - 40 FT.	15"	8 5/8"	6 FT.	15" X 15" X 1 1/4"
41 FT. - 45 FT.	15"	8 5/8"	6 FT.	15" X 15" X 1 1/4"
46 FT. - 50 FT.	15"	10"	8 FT.	15" X 15" X 1 1/4"

NOTES FOR METAL FOUNDATION

- ALL DIMENSION IN INCHES UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVANIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT./LBS OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- HELIX FOUNDATION SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB. METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.
- ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
 - BASE PLATE: AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
 - SHAFT: ASTM A 252 - (LATEST REVISION) GRADE 2, (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
 - HELIX SCREW: AASHTO M 163 (ASTM A 635) (LATEST REVISION)
 - PILOT POINT: AASHTO M 270 (ASTM A 575) (LATEST REVISION)
 - ANCHOR RODS/STUDS: AASHTO M 314 (ASTM F 1554) (LATEST REVISION)
 - HEXAGON NUTS: AASHTO M 291M (ASTM A 563) GRADE 3H, OR AASHTO M 292 (ASTM A 194) GRADE 2H (LATEST REVISION)
 - WASHERS: AASHTO M 293 (ASTM F 436) (LATEST REVISION)

POLE FOUNDATION METAL

HELIX MUST BE FORMED BY MATCHING METAL DIE (SIDE VIEW OF TRUE HELICAL FORM)

WALNUT LANE

FILE NAME =	USER NAME = djk	DESIGNED - SJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALNUT LANE STREET LIGHTING DETAILS	F.A.I.J. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	
...2536-L104_Detail.dgn		DRAWN - SJC	REVISED -			2556	08-00094-00-PV	COOK	113	83
		CHECKED - DJK	REVISED -			CONTRACT NO. 63738				
		DATE - 8/20/2012	REVISED -			ILLINOIS FED. AID PROJECT M-3003490				
				SCALE: N.T.S.	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.			