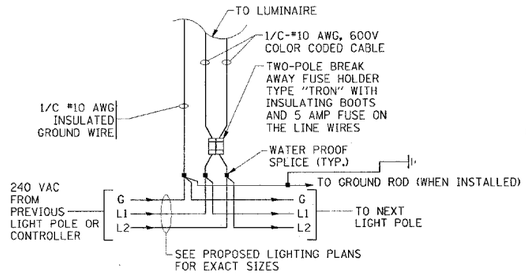
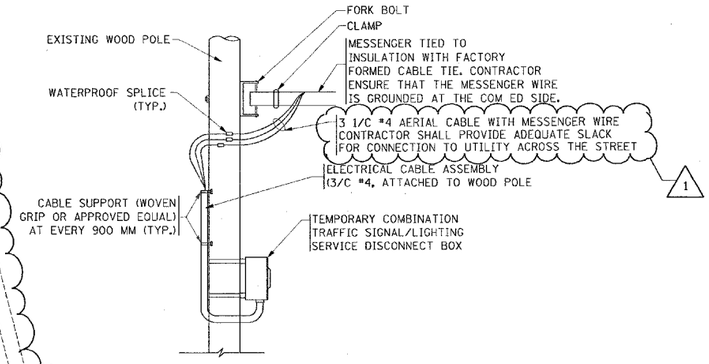


LIGHT POLE WIRING DETAIL

NOT TO SCALE (SEE NOTE 11)

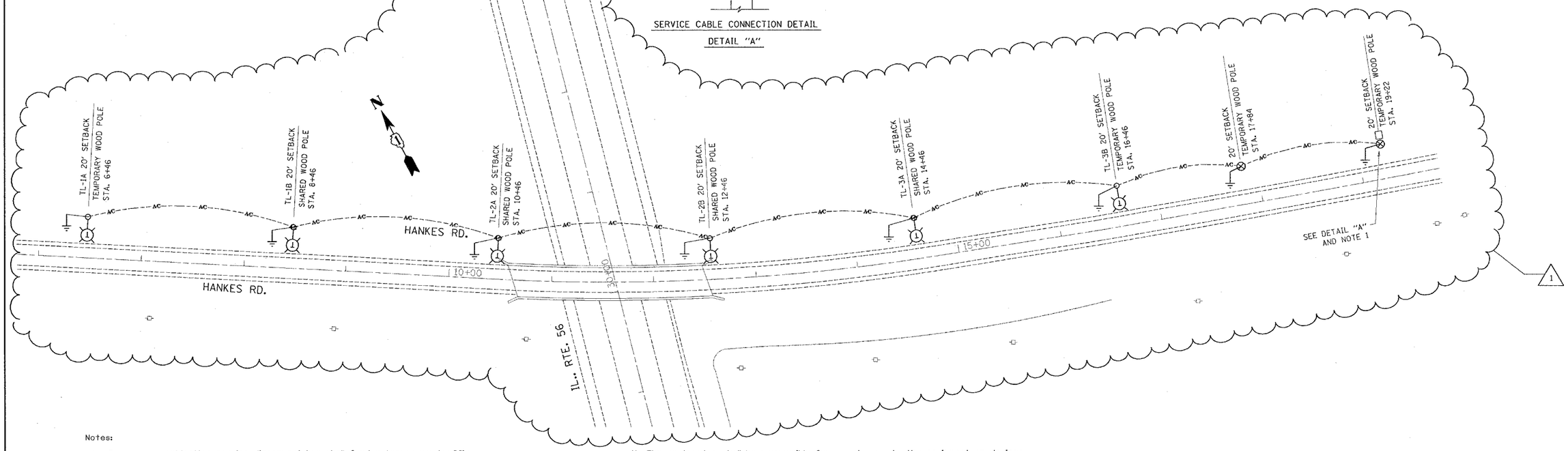


SERVICE CABLE CONNECTION DETAIL

DETAIL "A"

1 BILL OF MATERIALS, ELECTRICAL PAY ITEMS

Pay Code	Item Description	Unit	Quantity
80400100	ELECTRIC SERVICE INSTALLATION	Each	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	Each	1
XX006937	GROUND ROD, 5/8" DIA. X 10 FT	Each	8
8180019	AERIAL CABLE, 2-1/C NO. 4 WITH MESSANGER WIRE	Foot	1500
82106400	LUMINAIRE, SODIUM VAPOR, HORRIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	Each	6
X0324311	TEMPORARY WOOD POLE, 18.3 METER, WITH 4.5 METER MAST ARM (INSTALL ONLY)	Each	6
X0326117	TEMPORARY WOOD POLE, 18.3 METER (INSTALL ONLY)	Each	2
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	Each	6
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	Each	1
X0324001	REMOVE WOOD POLE AND SALVAGE	Each	2



Notes:

1. Temporary combination service disconnect box shall feed a temporary traffic signal controller and the temporary lighting units.
2. A lighting clontroller is not proposed. Each lighting unit shall be controlled by a photo cell mounted on the associated luminaire with the lighting circuit fed directly from the temporary service disconnect box.
4. The materials and installation methods shall comply with the latest codes, standards and ordinances of Federal, State and Local governing bodies having jurisdiction. All works shown on the plans and described elsewhere shall also conform to the latest National Electrical Code.
5. All electrical equipment, components and devices shall be U/L listed.
6. All material parts of the light poles shall be grounded and bonded conforming to NEC Article 250. The equipment ground shall be part of the temporary light pole pay item.
7. The light pole setback from the edge of travel pavement shall be 20' unless the light pole is behind guardrail. The light poles when installed behind the guardrail should have at least eight foot setback from the back of the shoulder and or as directed by the engineer.
8. The plan shows four shared wooden poles that are common for lighting and traffic systems. The electrical contractor shall install only the luminaire and mast arm on the shared poles. The traffic system contractor should supply, and install these 60' Class 4 wooden poles. The electrical summary of quantities excludes these poles.
9. The temporary light poles should have identification numbers as shown on the plans.
10. Cost of splices and mounting hardware shall be included in the unit price for aerial cable.
11. The contractor shall be responsible for any damage to the equipment or devices and not limited to the light system. The contractor shall not install damaged equipment or devices, instead the contractor shall replace it with new ones at no cost to IDOT and or as directed by the Engineer.
12. The contractor shall splice aerial cable at the light pole using heat shrinkable caps with the factory applied waterproof sealent. The installation and required material shall be part of the Light Pole pay item.
13. It is the contractor's responsibility to contact J.U.L.I.E. prior to the start of construction and coordinate location of existing underground utilities. The contractor shall locate, flag and protect all underground utilities prior to and during construction. Any damage to existing utilities during construction shall be repaired immediatly at no cost to IDOT.
14. The material quantities as shown in the elecrical summary of quantities are approximations only. It is the contractor's responsibilies to field verify all quantities prior to ordering materials.
15. The contractor shall coordinate construction and staging activities being done in the same area by the utility companies or other contractors and setup coordination meetings if necessary without any additional financial compensation.
16. The utility company shall be contacted as soon as possible and notified of the pending electrical connections and installations to ensure continuity of night time hours of lighting operation.
17. All areas disturbed under this contract shall be restored to the original condition or better to the satisfaction of the Engineer.

1 LEGENDS

	400W, (120V,) MCIII HPS. WITH PHOTO CELL 15' MA, SE MH ON WOOD POLE
---AC---	2-1/C#4, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED
TL-1A	TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A
	GROUND ROD 5/8" DIA. x 10'
	COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX
	TEMPORARY WOOD POLE

1 REVISED 5/19/08

FILE NAME = c:\projects\d133008\lighting.dgn	USER NAME = poulterma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HANKES RD. OVER IL. RTE. 56	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			573	61 HB-I-6	KANE	14	10
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -			CONTRACT NO. 60E17				
	PLOT DATE = 5/2/2008	DATE -	REVISED -		SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		