- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
- 4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
- 5. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
- 6. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
- 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER, THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.
- 8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
- 9. ALL CONDUIT IN TRENCH SHALL BE PVC. ALL CONDUIT PUSHED MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
- 10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 11. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- 12. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- 13. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
- 14.ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT
- 15. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- 16. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
- 17. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- 19. THE CONTRACTOR SHALL CONTACT VILLAGE OF BRADLEY, IDOT AND UTILITY COMPANY FOR THE TELEPHONE CONNECTION TO THE MASTER CONTROLLER.
- 20.THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
- 21. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
- 22.ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD
- 23.ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- 24. THE FIBER OPTIC CABLE SHALL BE LABELED WITH DIRECTION AND ASSIGNMENT NUMBER.
- 25.THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
- 26.THE MAST ARMS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.
- 27.ONE WEEK PRIOR TO SIGNAL TURN-ON FOR BOTH DIRECTIONS, THE CHANGEABLE MESSAGE SIGNS SHOULD READ "NEW SIGNAL AHEAD/ TURN ON DATE" FOR THREE WEEKS. AFTER THE SIGNALS ARE TURNED ON THE MESSAGE SIGN SHOULD READ "NEW SIGNAL AHEAD/ BE PREPARE TO STOP", FOR FOUR WEEKS.

TEMPORARY TRAFFIC SIGNALS:

- ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL
- THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN THE CONTROLLER AND ON THE WOOD POLES. THE SLACK IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ELECTRIC CABLE OF THE TYPE SPECIFIED.
- . TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB OR A MINIMUM OF 18' FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

- 4. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 MPH SUSTAINED WIND LOADING.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.

TRAFFIC SIGNAL SUMMARY OF QUANTITIES:

72000100 S 81012600 C	DESCRIPTION SIGN PANEL - TYPE 1	UNIT	QUANTITY	KAMPEH	RAMP FG	
81012600 C		00 ==				INTERCONNECT
		SQ FT	46	23	23	
181012700 U	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	7,103	1,255	2,182	3,666
	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	357	162	195	-
	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	357	145	212	-
	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	207	85	122	
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	960	395	565	-
	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	49	49	-	-
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	2,508	1,192	1,111	205
	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	22	10	7	5
	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3	ļ	2	
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	8,572	1,683	3,049	3,840
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5		-	5
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	4	1	-	3
	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1	-	1	- 4
	WASTER CONTROLLER (SPECIAL)	EACH	1	- 4	-	1
	JNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	5	1	1	3
	TRANSCEIVER-FIBER OPTIC	EACH	5	1 245	1 105	3
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	500	315	185	-
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,845	1,292	1,553	-
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	9,365	3,665	5,700	-
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	319	319	7.004	-
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	15,001	7,607	7,394	-
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,602	1,139	463	-
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	886	438	448	
	FRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2	-	7	=
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	16	9	-	-
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1	1	- 4	-
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2	1 1	1	-
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH EACH	1 1	 	1	-
		EACH	1 1	-	1	-
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 50 FT. CONCRETE FOUNDATION, TYPE A	FOOT	72	36	36	
	CONCRETE FOUNDATION, TYPE A	FOOT	8	4	4	
	CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	80	40	40	
	DRILL EXISTING HANDHOLE	EACH	12	40	40	12
	SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	15	7	8	
	SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	18	8	10	
	SIGNAL HEAD, POLICARBONITE, LED, 1-FACE, 5-SECTION, MAST ARMINIOUNTED	EACH	3	3	10	
88102825 P	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6	4	2	-
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	36	18	18	
	NDUCTIVE LOOP DETECTOR	EACH	36	17	19	-
		FOOT				202
	DETECTOR LOOP, TYPE 1 LIGHT DETECTOR	EACH	4,623	1,928	2,402	293
	LIGHT DETECTOR LIGHT DETECTOR AMPLIFIER	EACH	8	4	4	
	PEDESTRIAN PUSH-BUTTON	EACH	6	4	2	
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1	-
	MODIFY EXISTING CONTROLLER	EACH	3			3
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	3
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	4	4	-
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8	4	4	-
	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1			1
	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1	1
	SERVICE INSTALLATION - GROUND MOUNTED		+ 1	- 1		
		EACH		1		
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5,658	1 241	000	5,658
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2,141	1,241	900	-
	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	2,118	919	1,199	- 1
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1 E 659	-	-	T 050
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5,658	- 1	- 1	5,658
20073510 1	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1	1	-

FILE NAME =	USER NAME = kkhon	DESIGNED	-	JA	REVISED	-
g:\zd40403\ts-1.dgn		DRAWN	-	RM/IS	REVISED	-
	PLOT SCALE = NONE	CHECKED	-	HS	REVISED	-
	PLOT DATE = 12/17/2010	DATE	- 1	2-17-2010	REVISED	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFI	C SIGNAL	GENE	RAL NO	OTES AND	SUMMARY	F.A.I. RTE.	SECTION
	OF QUANT	TITIES	RAMP	EH, FG 8	L 50	57	(46-2) I, HBR, VBR
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	- EED B	DAD DIST NO 3 ILLINOIS EED

COUNTY

AID PROJECT

KANKAKEE 558 226

CONTRACT NO. 66409