

TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

- | PROPOSED | DESCRIPTION |
|---------------------------------|--|
| ⑤ | ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS |
| [Signal Face Symbol] | SIGNAL FACE WITH BACKPLATE |
| [Signal Face Symbol] | SIGNAL FACE |
| [Directional Signal Symbol] | DIRECTIONAL SIGNAL SECTION |
| [12" Signal Section Symbol] | 12" SIGNAL SECTION |
| [Walk/Don't Walk Symbol] | WALK/DON'T WALK SECTION + COUNT DOWN |
| [Ground Wire Pole Symbol] | GROUND WIRE (POLE) |
| [Ground Wire Mast Arm Symbol] | GROUND WIRE (MAST ARM) |
| [Pedestrian Pushbutton Symbol] | PEDESTRIAN PUSHBUTTON |
| [Conduit Symbol] | CONDUIT |
| [Video Detection Camera Symbol] | VIDEO DETECTION CAMERA |
| [Coaxial Cable Symbol] | COAXIAL CABLE |

TRAFFIC SIGNAL GENERAL NOTES

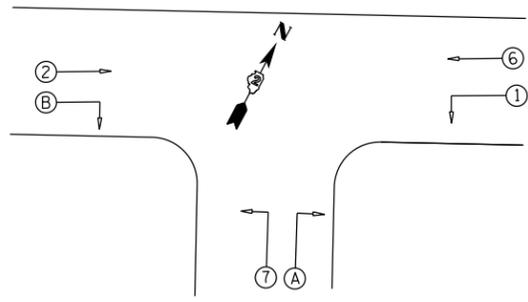
- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
- THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES, WITH THE EXCEPTION OF THE FIVE SECTION SIGNAL HEAD FOR THE 19TH STREET LEFT TURNS. THIS SHALL BE PLACED OVER THE RIGHT EDGE OF THE LEFT TURN LANE.
- ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
- ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
- PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
- THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT PUSHED.
- THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, SERVICE RISERS, EXPOSED METALLIC CONDUITS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER.
- STREET SIGNS WILL MEET MUTCD, CITY OF MOLINE, AND IDOT STANDARDS. DETAILS ARE NOT PROVIDED. INFORMATION PROVIDED IS FOR VISUAL REPRESENTATION ONLY.
- SEE LIGHTING SHEETS FOR LUMINAIRE DETAILS AND WIRING.



R10-3
2 SIGNS REQUIRED: 0.75 SQ. FT. EACH
THIS SIGN SHALL BE LOCATED ABOVE ALL PEDESTRIAN PUSH BUTTONS.



R10-12
1 SIGN REQUIRED: 7.5 SQ. FT. EACH
THIS SIGN SHALL BE LOCATED 0'-9" TO THE RIGHT OF THE 5 SECTION SIGNAL HEAD AS INDICATED.

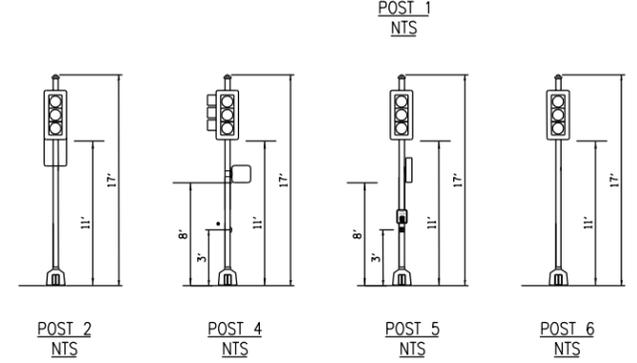
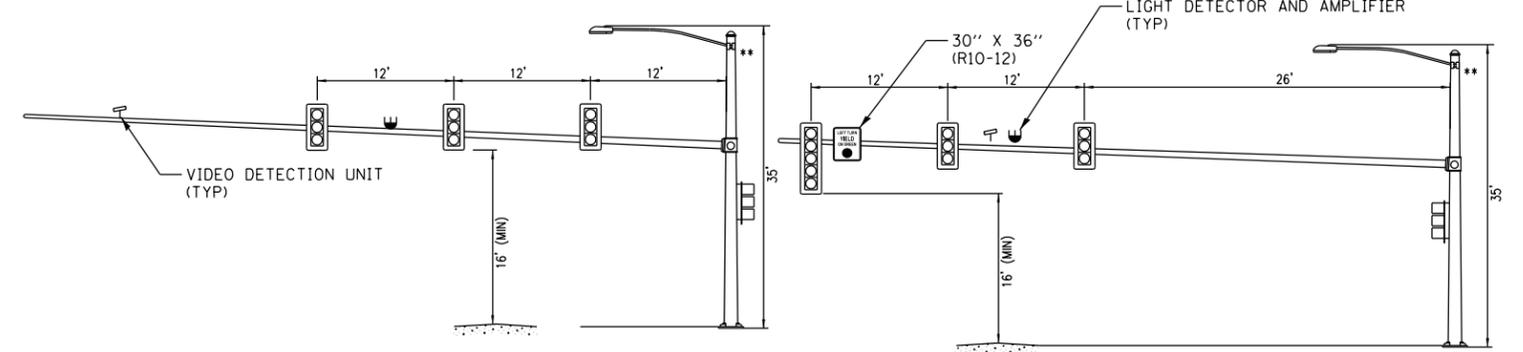
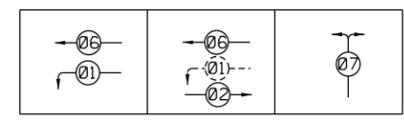


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A		1
B		7

PHASE SEQUENCE CHART



POST 1 NTS
POST 3 NTS
** - TWO LUMINAIRES NEEDED, EACH ON SEPERATE ARM

SUGGESTED TIMINGS (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	5	5				5	5	
PASSAGE	2	2				2	2	
MAXIMUM 1	20	35				35	20	
YELLOW CHANGE	4	4				4	4	
RED CLEARANCE	1	1				1	1	
RECALL MODE	MAX	MAX				MAX	OFF	
ACUTATED CYCLE LENGTH = 90								

LAYOUT	TMA	2/20/2013
DRAWN	TMA	2/22/2013
REVIEWED	KNB	3/4/2014

FILE NAME = D2PACKE-HP5-sht-ts022L.dgn	USER NAME = petke00954	DESIGNED - TMA	REVISED -
		DRAWN - TMA	REVISED -
		CHECKED - KNB	REVISED -
		DATE - 3/7/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE AND LOADING PLAN
RIVER DRIVE AND FUTURE ENTRANCE RAMP

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5756	(81-1)M	ROCK ISLAND	217	108
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J68	