

## CABLE PLAN

NOT TO SCALE

CONSTRUCTION NOTES: CONTRACTOR TO INSTALL NEW PEDESTRIAN
 HEAD, LED. 1—FACE WITH COUNTDOWN TIMER AND NEW PEDESTRIAN PUSH-BUTTON, LED

### CABLE PLAN LEGEND

(TO BE USED IN CONJUNCTION WITH IDOT D1 STANDARD

**EXISTING** PROPOSED

BICYCLE DETECTOR, QUADRUPOLE INDUCTION LOOP

TRAFFIC SIGNAL DESIGN DETAILS - TRAFFIC SIGNAL LEGEND)

DUAL ENTRY PHASING NOTES (FOR ASH ROAD ONLY)

PHASES SHOWN ON THE CROSS STREET SHALL BE THE ONLY PHASES FOR WHICH STANDARD 857001 IS UTILIZED.

# 4. TERMINATION OF A PHASE SHALL BE WITH A YELLOW INDICATION FOLLOWED BY A RED INDICATION.

5. IN A FLASHING MODE, ALL VEHICULAR SIGNAL FACES SHALL FLASH RED AND ALL PEDESTRIAN SIGNAL FACES SHALL BE DARK.

EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION — ASH ROAD LEGS FOR SINGLE ENTRY OPERATION — ILLINOIS ROUTE 72 LEGS ASH ROAD (5) IL. RTE. 72 (HIGGINS ROAD) 4-4-**4**— -(3)-4 <del>-</del>(3)-→ (5) ASH ROAD PROPOSED PRIORITY LANES **→** MOVEMENT

QUANTITY

50

1800

1854

737

2

12

3

8

2

175

4

8

UNIT

FT

**EACH** 

FT

FT

FT

EACH

FT

EACH

EACH

EACH

EACH

FT

**EACH** 

EACH

EACH

EACH

SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL

ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C

CONCRETE FOUNDATION, TYPE A

INDUCTIVE LOOP DETECTOR (SPECIAL)

RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

DRILL EXISTING HANDHOLE

WITH COUNTDOWN TIMER

MODIFY EXISTING CONTROLLER® HANDHOLE TO BE ADJUSTED

PEDESTRIAN PUSH BUTTON, LED

INDUCTIVE LOOP DETECTOR

DETECTOR LOOP, TYPE 1

**4**--6

LEGEND

←(\*)
— DUAL ENTRY PHASE

◆ ②→ PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

SINGLE ENTRY PHASE

8-1-

**-**[∗]-

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED

PAY ITEM

CONTROLLER SEQUENCE
REFERRING TO STANDARD 857001 (FOR ASH ROAD ONLY), THE
VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW

ASH ROAD

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ASH ROAD

PHASE DESIGNATION DIAGRAM SINGLE ENTRY - IL RTE. 72 ONLY - PROTECTED LEFT TURN PHASING

DUAL ENTRY - ASH ROAD ONLY - PROTECTED/PERMITTED LEFT TURN

SINGLE ENTRY PHASING NOTES (FOR ILLINOIS ROUTE 72 ONLY)

A PHASE IN ONE RING CAN BE SELECTED AND TIMED ALONE IF THERE IS NO DEMAND FOR SERVICE IN A NON-CONFLICTING PHASE ON THE PARALLEL RING ONLY ON THE ARTERIAL'S SIDE OF THE BARRIER.

3. ONCE CONCURRENT TIMING OF BOTH RINGS OCCURS ON THE ARTERIAL'S SIDE OF THE BARRIER, THE ASSOCIATED CONCURRENT PHASES SHALL ONLY CLEAR TO OTHER CONCURRENT PHASES ON THE SAME SIDE OF THE BARRIER TO OR ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.

A SINGLE PHASE SELECTED AS STATED ON NOTE 1 SHALL ONLY TERMINATE TO THE CONFLICTING PHASE ON THE SAME SIDE OF THE BARRIER OR TO ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.

PHASING

(8)

IL. RTE. 72 (HIGGINS ROAD)

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- 1. TERMINATION OF ALL PEDESTRIAN PHASES SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- 2. IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.

### DUAL ENTRY NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A DUAL ENTRY PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 857001.
- 2. CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE CONTINUATION OF TERMINATION OF ALL RIGHT TOWN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS WITH THE FOLLOWING EXCEPTION: A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.

- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A SINGLE ENTRY
  PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATIONS
  TERMINATION OF A PHASE(S) AS DESCRIBED IN THE SINGLE ENTRY PHASING

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- A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.
- CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS PROTECTED PHASE WHEN TRANSFERRING FROM THE NORMAL SEQUENCE OF OPERATION TO THE PREEMPTION SEQUENCE SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS <u>PROTECTED</u> PHASE AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.

FILE NAME REVISED -DESIGNED -DETAILSH.DWG DRAWN REVISED CHECKED REVISED DATE REVISED



VILLAGE OF HOFFMAN ESTATES Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project Cable and Sequence of Operations Plan - Higgins Road and Ash Road SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA

TOTAL SHEET NO. SECTION COUNTY Cook 86 41 341 08-00080-00-BT CONTRACT NO. 63233 ILLINOIS FED. AID PROJECT CMM 9003(243)