

* = (1.8m)

** = (1.5m)

LOOPS ARE SAW-CUT

DUCT IS RUN BETWEEN

EDGE OF PAVEMENT

(TYP. FOR LOOPS

THAT TERMINATE

OUTSIDE PAVEMENT)

AND HANDHOLF.

IN HANDHOLES

STRAIGHT SAW

IN PAVEMENT

(TYP.)

CUTS TO HEAVY-

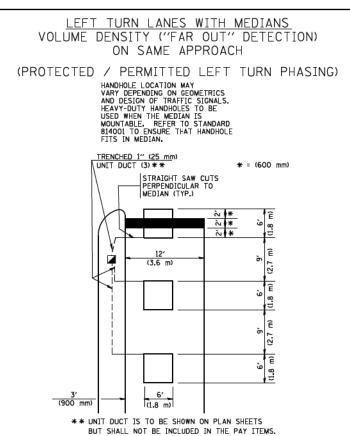
DUTY HANDHOLE

DETAIL 1

N.T.S.

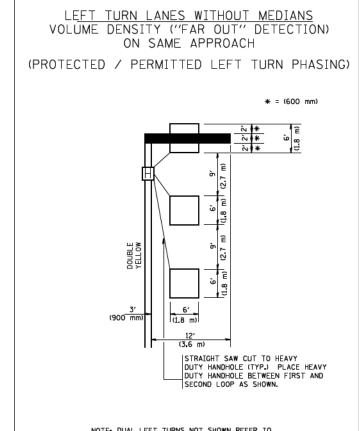
TO THE EDGE OF

CROSS STREET



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

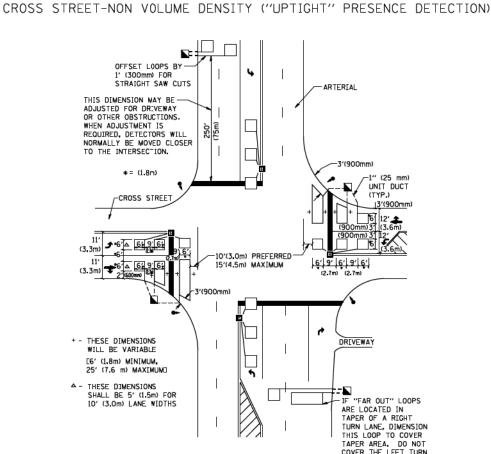
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LANE TAPER.

SCALE: NONE



DETAIL 2

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (f.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

BY BAXTER & WOODMAN, INC.
- PROFESSIONAL DESIGN FIRM
001121 - EXPIRES 4/30/2015 2011, NOIS 184-(

FILE NAME = \diststd\22x34\ts07.dgr

USER NAME = gaglianobt DESIGNED -REVISED DRAWN REVISED REVISED CHECKED - R.K.F. PLOT SCALE = 50.0000 '/ IN. PLOT DATE = 1/4/2008 DATE REVISED

ARTERIAL

(600mm)

10' (3.0m) OR CLOSER

DEPENDING ON DRIVE-WAY LOCATION.

CALLING LOOPS

(600mm)

[TYP.-12' (3.6m) LANES]

DO NOT INSTALL

CALLING LOOP IN RIGHT TURN LANE.

250'(75m) CTYP.-ALL LEGS-VOLUME DENSITY ("FAR OUT" DETECTION)]

OFF SET LOOPS BY

STRAIGHT SAW CUTS.

-1' (300mm) FOR

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 - DETECTOR LOOP INSTALLATION **DETAILS FOR ROADWAY RESURFACING** SHEET NO. 1 OF 1 SHEETS STA. TO STA.

TOTAL SHEE NO. 30 SECTION COUNTY 567 5R-RS-3 KANF CONTRACT NO. 60N37 TS-07 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT