

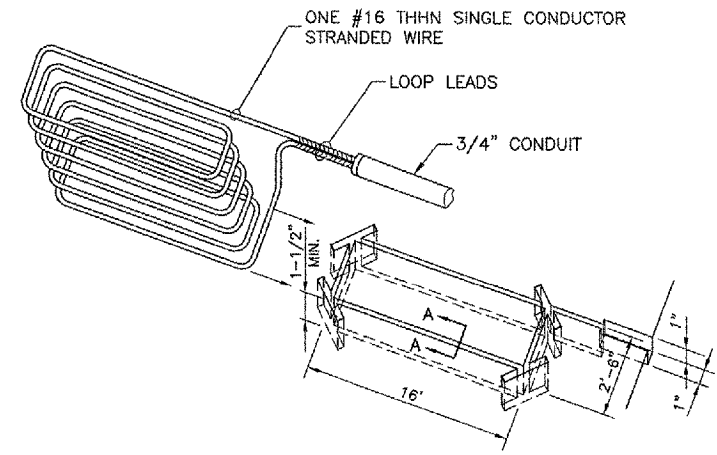
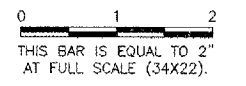
GATE OPERATION
N.T.S.

SUMMARY OF OPERATION

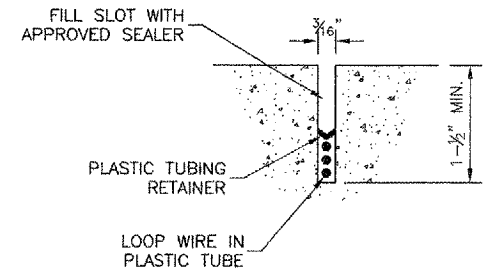
- 1.) THE GATES SHALL HAVE AN AUTOMATIC GATE OPERATOR WITH TWO CARD READERS AND REMOTE CONTROL. ONCE THE GATE IS OPENED IT WILL REMAIN OPEN FOR THE TIME SPECIFIED BY THE OWNER AFTER THE LOOP PICKUPS DETERMINE THAT THERE ARE NO VEHICLES OVER THE PICKUP LOOPS.
- 2.) ACTUATING THE GATE OPENERS VIA THE CARD READER REQUIRES THE VEHICLE TO APPROACH THE GATE ENTRANCE AND STOP. THE DRIVER ACTIVATES THE GATE OPENER BY SWEEPING HIS CARD. THE ACCESS CONTROL DEVICE TRANSMITS AN IMPULSE TO ACTIVATE THE GATE OPENER TO OPEN THE GATE. AFTER THE GATE IS FULLY OPENED AND STOPPED, THE VEHICLE PROCEEDS THROUGH THE OPENING, PASSING OVER THE LOOPS. WHILE THE VEHICLE IS IN THE LOOP SENSING RANGE, AN IMPULSE IS TRANSMITTED TO THE GATE OPERATOR TO HOLD THE GATE IN THE OPEN POSITION. WHEN THE LOOP HAS BEEN CLEARED, THE AUTOMATIC TIMER IS ACTIVATED AND, WHEN THE USER-DETERMINED TIME HAS ELAPSED, IT WILL ACTIVATE THE GATE OPENER TO CLOSE THE GATE. EXITING THE AREA IS ACCOMPLISHED IN THE SAME MANNER.

REVISIONS

NUMBER	BY	DATE



PERSPECTIVE VIEW OF DETECTOR LOOP SAW SLOT
N.T.S.



SECTION A-A
N.T.S.

DETECTOR LOOP DETAILS

CAUTION:
• DO NOT SPLICE WIRE.

• DO NOT FRACTURE WIRE INSULATION. LOOPS SHORTED TO GROUND WILL CAUSE DETECTOR MALFUNCTION. WHEN PLACING WIRE IN THE SLOT, DO NOT USE SCREWDRIVER OR OTHER SHARP TOOLS.

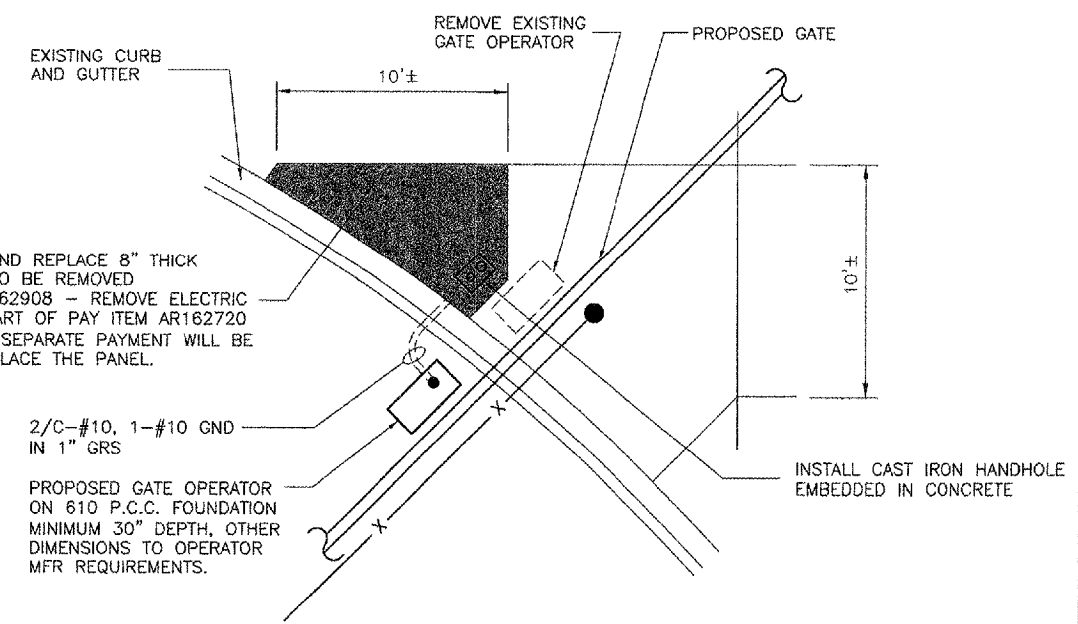
TYPICAL LAYOUT FOR LOOP:

- SAW SLOT 3/16" WIDE x 1-1/2" DEEP. MAKE RECTANGULAR SHAPE TO SPECIFIED LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT.
- GROUT WITH NO. 202 WEATHERBAN SEALANT (A PRODUCT OF 3M CO.) OR APPROVED EQUIVALENT ... (EXAMPLE: DE WITTS NO. 99 BLACK MASTIC CAULK).

NOTES:

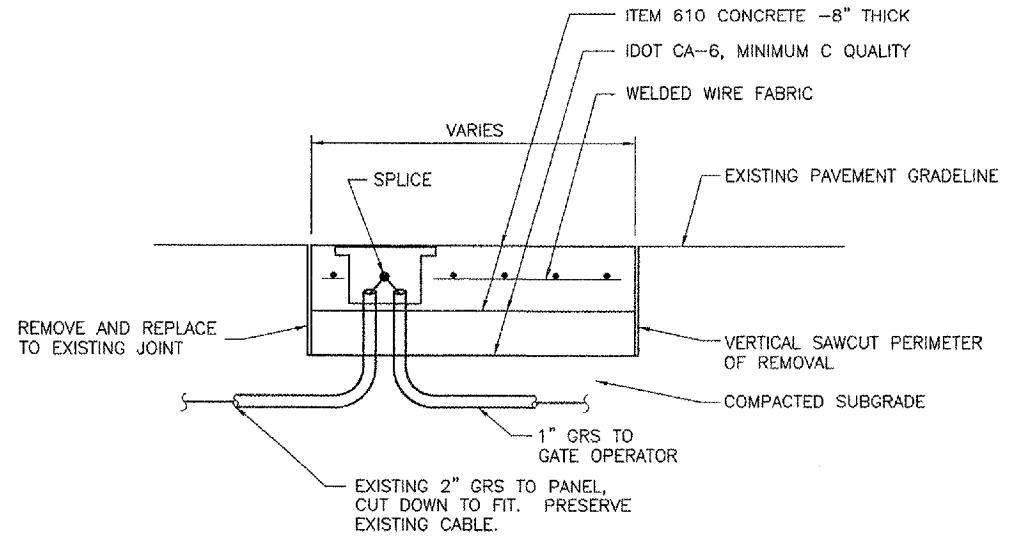
- 1.) LOOP LEADS ARE LIMITED TO 100 FEET.
- 2.) LOOP LEADS MUST HAVE FOUR (4) TWISTS PER FOOT.
- 3.) LOOP AND LOOP LEADS MUST BE LOCATED, AT LEAST, 18" FROM ANY ELECTRICAL POWER SERVICE OR RUN, OR STEEL REINFORCEMENT.
- 4.) LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR. THEY MUST NOT SHARE CONDUIT WITH OTHER WIRING OR LEADS FROM OTHER LOOPS.
- 5.) WIRE SHALL BE #16 THHN SINGLE CONDUCTOR STRANDED WIRE.
- 6.) ALL WIRE SHALL BE CONTINUOUS WITHOUT SPLICING.

NOTE:
LOCATIONS, DETAILS AND CHARACTER OF EQUIPMENT SHOWN ON THIS SHEET ARE GENERIC. EQUIPMENT LOCATION SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.



ITEM 610 P.C.C. REMOVE AND REPLACE 8" THICK CONCRETE PANEL. PANEL TO BE REMOVED AS PART OF PAY ITEM AR162908 - REMOVE ELECTRIC GATE AND REPLACED AS PART OF PAY ITEM AR162720 ELECTRIC GATE - 20'. NO SEPARATE PAYMENT WILL BE MADE TO REMOVE AND REPLACE THE PANEL.

P.C.C. PAVEMENT REMOVAL AND REPLACEMENT (PLAN VIEW)
N.T.S.



P.C.C. PAVEMENT REMOVAL AND REPLACEMENT
N.T.S.

UNIVERSITY OF ILLINOIS WILLARD AIRPORT
REHABILITATE AIR CARRIER RAMP
ELECTRICAL GATE DETAILS SHEET 2

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DESIGN BY: TM
 DRAWN BY: CMT
 CHECKED BY: S.H.S.
 APPROVED BY: [Signature]
 DATE: 06/18/2005
 JOB No: 03059-03-00
 IL PROJECT: CMI-3449
 A.I.P. PROJECT: 3-17-0016-22
 SHEET 44 OF 58 SHEETS