## DETECTOR LOOP REQUIREMENTS AND CALCULATIONS CALCULATED INDUCTANCE MICROHENRIES (MH ) CALCULATED RESISTANCE SIZE(FT) OHMS TURNS SB LT TURN LN-CD 6x50 3-6-3 SB LT TURN LN-CD 6x50 3-6-3 829 2.57 2.57 829 SB RT TURN LN-CD 6x50 3-6-3 840 2.81 EB RT TURN LN-CD 6x50 3-6-3 871 3.53 EB RT TURN LN-CD 6x50 3-6-3 THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES. - 1 1/4" CONDUIT(EXIST) SEE DETAIL -EXISITNG CONDUIT STA 75+87,99 (IL RTE 140)= STA 229+61.40 (RAMP B) ¢ IL ROUTE 140 STA 75+99.68 (IL ATE 140)= STA 0+00 (RÁMP C) 1" CONDUIT(EXIST) -SEE DETAIL ELECTRICAL QUANTITIES: DESCRIPTION UNIT QUANTITY DETECTOR LOOP REPLACEMENT 925 LOCATING UNDER GROUND CABLE FOOT 35 JSER NAME = \$USER\$ FILE NAME : REVISED DESIGNED SECTION STATE OF ILLINOIS \$FILEL\$ DRAWN REVISED **DETECTOR LOOP REPLACEMENT** 785 MADISON (132-2,3,4, 133-1)RS 122 84 CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 76B80 LOT DATE = \$DATE\$ REVISED SCALE: \_ SHEET NO. 3 OF 9 SHEETS STA. \_\_\_\_\_ TO STA.