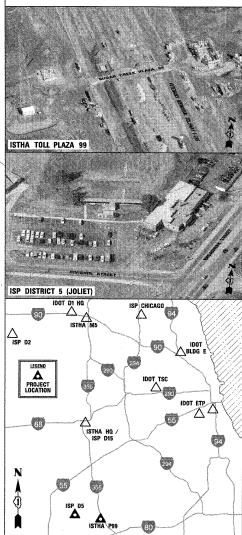
## SPECIAL NOTES FOR WORK AT PLAZA 99 LOCATION 1. PRIOR TO THE COMMENCEMENT OF ANY UNDERGROUND WORK, PLEASE CONTACT THE ILLINOIS TOLLWAY'S ENGINEERING UTILITY PERMIT DIVISION, PLEASE NOTE THAT J.U.L.I.E LOCATION OF BURIED UTILITIES DOES NOT INCLUDE ISTHA BURIED FACILITIES AND THAT ENGINEERING UTILITY PERMIT DIVISION NEEDS TO BE CONTACTED A MINIMUM OF FOUR BUSINESS DAYS PRIOR TO UNDERGROUND WORK TO OBTAIN AND SUBMIT AN ONLINE ISTHA A-36 FORM, AT: WWW.ILLINOISVIRTUALTOLLWAY/UTILITYLOCATES. 2. EXISTING VERTICAL WAVEGUIDE LADDERS MAY NOT BE UTILIZED TO MOUNT NEW COAXIAL CABLE OR WAVEGUIDE. A NEW VWGL SHALL BE MOUNTED, ALONG A LEG AGREED UPON BY THE ILLINOIS TOLLWAY (THE EDGE OF THE VERTICAL LADDER SHOULD BE NO CLOSER THAN ONE FOOT FROM THE ADJACENT EDGE OF THE TOWER LEG). THE VWGL SHALL BE ATTACHED TO THE TOWER WITHOUT DRILLING, UTILIZING "J-HOOKS" OR "J-PLATES." CATEGORY 5 CABLE (IN INSTANCES OF WIRELESS BROADBAND LEASING) MAY BE RUN ALONG THE SIDE OF THE VWGL, AS DIRECTED BY THE ILLINOIS TOLLWAY I.T. DEPARTMENT. ROUTE CABLE FROM CEILING TO FLOOR ALONG CORNER OF WALL, FASTEN TO EXISTING CABLE BUNDLE AS REQUIRED SCALE IN FEET 3. WAVEGUIDE SHALL BE RUN UPWARD ON VWGL TO EITHER A TOWER CROSS-MEMBER DIRECTLY DIAGONAL TO THE PLANNED ANTENNAS AND/OR (IN INSTANCES WITH SECTOR ANTENNAS) ALSO LEAVING THE VERTICAL LADDER AND RUNNING ALONG AN X BRACE UPWARD TO ANTENNAS ON OTHER TOWER SIDES. PROPOSED WORKSTATION-WITH 360 LICENSE 4. THE ANTENNA HEIGHT SHOWN IS "CENTER LINE," NOT TO TOP OR BOTTOM OF THE ARRAY. THIS HEIGHT IS SET BY THE ILLINOIS TOLLWAY I.T. DEPARTMENT AT INITIAL SITE MEETINGS AND MAY NOT BE ADJUSTED AT ANY TIME WITHOUT WRITTEN PERMISSION FROM SAID DEPARTMENT. USE EXISTING ADJACENT 120V WALL RECEPTACLE TO POWER WORKSTATION PROPOSED WALL MOUNTED 32" LCD AUXILIARY DISPLAY MONITOR 5. ALL UNDERGROUND ELECTRICAL CONDUIT SHALL BE UL LISTED PVC COATED RIGID GALVANIZED. ROUTE PROPOSED CABLES ABOVE SUSPENDED CEILING AND SECURE AS REQUIRED OPERATIONS ( -USE EXISTING 120V WALL RECEPTACLE TO POWER DISPLAY CAT-6 USE EXISTING 120V POWER FOR PROPOSED EQUIPMENT ROUTE NEW CABLE THRU BRICK WALL-(SEE CORING DETAIL ON SHEET 15) 41° 34′ 35.79″ N LATITUDE 88° 0′ 1.88″ W LONGITUDE ISTHA TOLL PLAZA 99 SEE SHEET 11 FOR ONE LINE DIAGRAM TRANSMITTER 275.093° PROPOSED ANTENNA AZIMUTH CABLE ATTACHED TO NEW ICE BRIDGE 11 GHz FCC CLASS A SEE SHEET 13 FOR ELEVATION VIEW ASR: 1254899 FAA: 2005-AGL-5064-0E SCALE IN FEET INSTALL NEW ICE BRIDGE FROM TOWER TO BUILDING (SEE DETAIL ON SHEET 15) TO IDOT FIBER OPTIC BACKBONE NETWORK PROPOSED VIDEO DECODER EXISTING CONCRETE HANDHOLE CAT-6 SPLICE 2 STRANDS OF PROPOSED FO CABLE, INTO IDOT FIBER ISP DISTRICT 5 (JOLIET) PROPOSED MICROWAVE PROPOSED 11 GHz MICROWAVE RADIO $-\Delta$ PROPOSED 11 GHZ ANTENNA MOUNTED AT 120' ON EAST LEG AIMED AT ISTHA TOLL PLAZA 99 ON 1-355 ANTENNA MOUNTED AT 130' ON SOUTHWEST LEG AIMED AT ISP ISP D2 INSTALL PROPOSED/F.O. DISTRICT 5 CABLE IN EXISTING LEGEND PROJECT LOCATION -EXISTING 265' ANTENNA TOWER -EXISTING FÓWER HUT -PROPOSED FIBER OPTIC EXISTING 255' ANTENNA TOWER 41° 34′ 56.26″ N LATITUDE INSTALL NEW 120V-20A CIRCUIT FOR PROPOSED EQUIPMENT 88° 4′ 57.19" W LONGITUDE PROPOSED ANTENNA CABLE 95.093° AZIMUTH 11 GHz FCC CLASS A SEE SHEET 13 FOR ELEVATION VIEW ROUTE CABLE THROUGH ASR: 1008062 EXISTING 4" WAVEGUIDE ENTRY PORT FAA: 95-AGL-2356-OE PROPOSED 11 GHZ MICROWAVE RADIO NO FIELD DRILLING OF TOWER LEGS, CROSS BRACING OR ANY OTHER STRUCTURAL MEMBER IS ALLOWED ON ANTENNA TOWERS CHRISTOPHER B. BURKE ENGINEERING, LTD. **ISP DISTRICT 5 (JOLIET)** ISTHA TOLL PLAZA 99 (I-355) 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 DESIGNED REVISED FILE NAME SECTION ITS CENTER-TO-CENTER INTEGRATION PROJECT DRAWN KWB REVISED STATE OF ILLINOIS N:\Idot\090122\Mech\090122\_ISPD5\_PLN\_01.4 2009-087 ISP DISTRICT 5 (JOLIET) / ISTHA TOLL PLAZA 99 (I-355) PLOT SCALE = 10' CHECKED **JPC** REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 5/12/2011 DATE REVISED SCALE: AS SHOWN SHEET NO. OF SHEETS STA. ILLINOIS FED. AID PROJECT

## **SCOPE OF WORK**

- 1. INSTALL NEW LICENSED MICROWAVE LINK BETWEEN ISP DISTRICT 5 AND ISTHA TOLL PLAZA 99. CONTRACTOR SHALL COORDINATE, FURNISH, AND INSTALL ALL REQUIRED
  EQUIPMENT FOR THE ISP DISTRICT 5 TO
  VIEW VIDEO FROM UP TO 4 OF ANY OF IDOT'S TRAFFIC CAMERAS THRU LINK.
- 2. THE EXISTING TOWER AT ISP DISTRICT 5 SHALL BE REINFORCED TO ACCOMODATE THE PROPOSED UPGRADES
- 3. A NEW WAVEGUIDE ICE BRIDGE SHALL BE INSTALLED BETWEEN TOWER AND ISP DISTRICT 5 BUILDING TO SUPPORT EXISTING AND PROPOSED CABLES.



VARIES 17

CONTRACT NO. 60134