

**INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLAN NOTES**  
**IN THE EVENT CONFLICTS OCCUR BETWEEN THE ITS PLAN NOTES AND THE MUTCD, THE MUTCD WILL GOVERN.**

○ NOTES THAT APPLY TO THIS PROJECT.

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| <p>1100 THE LOCATION OF THE POWER SERVICE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE POWER SERVICE AND THE SHORTEST ROUTE TO SERVE THE ITS CABINET AND DEVICES. THE CONTRACTOR SHALL HAVE THE POWER SERVICE LOCATION(S) APPROVED BY THE ENGINEER PRIOR TO INSTALLING POWER SERVICE.</p> <p>1101 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS OR LINE LOCATION SERVICE TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT, WHETHER SHOWN ON PLANS OR NOT. DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY AND THE ENGINEER. THE COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.</p> <p>1102 THE LOCATION OF ANY REQUIRED COMMBOXES AND/OR ELECTRICAL/FIBER CABLE CONDUITS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TOP PREVENT ANY CONFLICTS WITH THE EXISTING UTILITIES.</p> <p>1103 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF DAMAGE TO AND ROADWAY, LIGHTING, OR BRIDGE ELEMENTS THAT OCCUR DURING THE CONSTRUCTION OF THIS PROJECT DUE TO HIS OPERATIONS. THE METHOD OF REPAIR SHALL BE APPROVED BY THE ENGINEER PRIOR TO REPAIRS BEING DONE. ANY COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.</p> <p>1104 THIS PROJECT SHALL BE LIMITED TO ( ) END-TO-END SPLICES OF THE FIBER SINGLE MODE FIBER OPTIC CABLE AT LOCATIONS SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. "END-OF-DAY" CABLE CUTS AND SPLICING ARE NOT PERMITTED.</p> <p>1105 AT FIBER OPTIC CABLE END-TO-END SPLICE LOCATION(S) AND AT FIBER OPTIC CABLE END-OF-RUN LOCATION(S), THE CONTRACTOR SHALL PROVIDE A COMPLETE FUSION SPLICE INSTALLATION. FUSION SPLICE INSTALLATION SHALL BE EQUIPPED WITH SPLICE CLOSURE AND SPLICE TRAY (AND F2 COMMBOX IF CABLE IS BURIED AT SPLICE LOCATION).</p> <p>1106 CONTRACTOR SHALL PROVIDE ACCURATE 'AS-BUILT' PLAN SET AND SPLICE CHARTS AS PART OF THE PROJECT ACCEPTANCE PROCESS. THE ENGINEER SHALL VERIFY THE ACCURACY OF THE DRAWINGS PRIOR TO ACCEPTANCE.</p> <p>1107 PRIOR TO INSTALLATION OF FIBER OPTIC CABLE, THE CONTRACTOR SHALL COORDINATE FIBER ALLOCATIONS WITH THE ENGINEER. THE CONTRACTOR SHALL HAVE ALL SPLICE CHARTS APPROVED BY THE ENGINEER PRIOR TO INSTALLING FIBER OPTIC CABLE. IF THE CONTRACTOR INSTALLS FIBER OPTIC CABLE PRIOR TO THE ENGINEER'S APPROVAL OF SPLICE CHARTS, THE CONTRACTOR SHALL</p> <p>1108 THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ALL ANCHORS, MOUNTING BRACKETS, CLAMPS AND STRAPS PRIOR TO ANY INSTALLATION OF PRODUCT.</p> <p>1109 ALL ANCHORS PLACED IN BRIDGE DECKS SHALL PENETRATE THE DECK A MAXIMUM OF 1-1/4 INCHES.</p> <p>1110 ALL CONDUIT MOUNTED UNDER THE BRIDGE DECK SHALL BE STRAPPED TO THE BRIDGE DECK IN FIVE (5) FEET MAXIMUM INTERVALS.</p> | <p>1111 CONDUIT EXPANSION JOINTS SHALL BE INSTALLED EVERY 50 FEET MAXIMUM WHERE CONDUIT IS ATTACHED TO</p> <p>1112 ALL UNDERGROUND CONDUIT RUNS SHALL CONTAIN TWO (2) EACH 2-INCH DIAMETER HDPE CONDUITS, UNLESS OTHERWISE SHOWN ON PLANS. ALL ENCASEMENT RUNS SHALL CONTAIN ONE (1) EACH 6-INCH DIAMETER ELECTRICAL CONDUIT, 1 LINE, TYPE 5 INSTALLATION, UNLESS OTHERWISE SHOWN ON PLANS.</p> <p>1113 PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT ALL UNDERGROUND CONDUIT RUNS WILL BE LOCATED TO AVOID</p> <p>1114 DURING THE INSTALLATION OF 756-A, UPHEAVAL IN EXISTING PAVEMENT WILL NOT BE ALLOWED.</p> <p>1115 ACCESS TO ALL OPEN BUSINESSES SHALL BE MAINTAINED DURING INSTALLATION OF THE 756-A CONDUIT WHERE MORE THAN ONE ACCESS DRIVE IS AVAILABLE.</p> <p>1116 ANY TRENCHES REQUIRED FOR CONSTRUCTION SHALL BE BACKFILLED THE SAME DAY.</p> <p>1117 ANY HOLES EXCAVATED FOR STRUCTURE AND POLE FOUNDATIONS SHALL BE COVERED IF LEFT OVERNIGHT. THE COVERING SHALL BE SUFFICIENTLY SECURED TO AVOID UNINTENTIONAL DISPLACEMENT BY PERSONS, WIND OR VEHICLES AS APPROVED BY THE ENGINEER. THIS SHALL BE A SUBSIDIARY OBLIGATION OF THE STRUCTURE AND POLE FOUNDATIONS.</p> <p>1118 THE CONTRACTOR SHALL CONNECT EACH POLE GROUND SYSTEM IMMEDIATELY AFTER THE POLE HAS BEEN PLACED ON ITS FOUNDATION. NO METAL POLE SHALL BE LEFT UNGROUNDED AFTER IT HAS BEEN PLACED ON ITS FOUNDATION.</p> <p>1119 THE COMMBOXES THAT ARE TO BE PLACED ALONG ROADWAYS SHALL HAVE A MINIMUM CLEARANCE OF TEN (10) FEET FROM THE EDGE OF THE PAVED SHOULDER AND FIFTEEN (15) FEET FROM THE EDGE OF PAVEMENT WHERE NO PAVED SHOULDER IS PRESENT, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER. NO COMMBOXES SHALL BE BURIED OR PLACED WITHIN SIDEWALKS, SWALES, DRAINAGE AREAS, OR UNDER ITS DEVICES AND CABINETS</p> <p>1120 THE VERTICAL SEPARATION BETWEEN FIBER CABLE AND ELECTRICAL LINES AT POLE ATTACHMENT SHALL MEET ALL PROVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NEC), CURRENT EDITION, REGARDING CLEARANCE FROM ELECTRIC LINES.</p> <p>1121 AERIAL DROPS SHALL HAVE ADEQUATE SLACK IN THE TRUNK SERVICE LOOP WITH AMPLE LENGTH OF THE DROP CABLE. THIS SHALL ALLOW FOR THE DETACHMENT OF THE AERIAL CLOSURE FROM THE TRUNK CABLE AND THE ABILITY TO LOWER SAID CLOSURE, TRUNK, AND DROP WITHOUT HAVING TO WORK IN A BUCKET TRUCK.</p> <p>1122 REQUIRED STRAPPING OF FIBER OPTIC CABLE TO MESSENGER CABLE SHALL BE STAINLESS STEEL LOCATED MAXIMUM FIVE (5) FEET ON CENTER.</p> <p>1123 THE LOCATION OF REQUIRED COMMBOXES SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO</p> <p>1124 FINAL LOCATION OF REQUIRED CCTV AND RVD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO</p> | <p>1125 ALL REQUIRED CCTV AND RVD POLES LOCATED BEHIND GUARDRAIL SHALL BE A MINIMUM OF FOUR (4) FEET BEHIND BACK OF GUARDRAIL POST.</p> <p>1126 THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTENANCE OF THE EXISTING INTERCONNECT UNTIL THE REQUIRED FIBER OPTIC INTERCONNECT IS FULLY</p> <p>1127 ALL EXISTING SIGNALS SHALL REMAIN FULLY OPERATIONAL AND CONNECTED TO THE NETWORK VIA INTERCONNECT UNTIL ALL PROPOSED FIBER EQUIPMENT IS INSTALLED AND CONNECTION TO THE FIELD SWITCHES ARE OPERATIONAL.</p> <p>1128 THE CONTRACTOR SHALL PROVIDE AND INSTALL FIBER OPTIC DROP CABLE FROM THE REQUIRED SPLICE CLOSURE TO THE REQUIRED CONTROLLER AT EACH SIGNALIZED</p> <p>1129 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL COMPONENTS (INCLUDING, BUT NOT LIMITED TO, CAMERAS AND CAMERA CONTROLS, VEHICLE DETECTION DEVICES, WIRELESS DEVICES, ETHERNET FIELD SWITCHES, DYNAMIC MESSAGE SIGNS, AND VIDEO ENCODERS) ARE COMPATIBLE TO ALDOT'S AUTOMATED TRAFFIC MANAGEMENT SYSTEM (ATMS) AND THAT THEY FUNCTION AS A COMPLETE SYSTEM.</p> <p>1130 ALL STRUCTURES SHALL BE INSTALLED FREE OF ANY APPURTENANCES. THE INSTALLATION OF DEVICES, CABINETS, OR OTHER APPURTENANCES WILL BE ALLOWED FOLLOWING INSPECTION OF THE STRUCTURE BY THE ENGINEER.</p> <p>1131 THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND BORES AT A MINIMUM OF 4 (FOUR) FEET BELOW EXISTING</p> <p>1132 UNDERGROUND CONDUIT SHALL BE INSTALLED BY EITHER TYPE 1 (OPEN TRENCH) OR TYPE 5 (PRECISION DIRECTIONAL BORING) METHODS UNLESS OTHERWISE INDICATED ON THE PLANS. TYPE 5 METHOD IS THE PREFERRED METHOD FOR UNDERGROUND CONDUITS THAT WILL CONTAIN FIBER OPTIC CABLES. DETECTABLE MARKING TAPE SHALL BE REQUIRED FOR FIBER OPTIC</p> <p>1133 THE CONTRACTOR SHALL BE AWARE OF THE FOLLOWING ONGOING CONSTRUCTION PROJECTS:<br/>         _____ - _____ ( ) : _____</p> <p>1134 THE REQUIRED CCTV CAMERA SHALL BE:<br/>         _____</p> <p>1135 THE REQUIRED ETHERNET FIELD SWITCH, TYPE _ SHALL BE:</p> <p>1136 THE REQUIRED DYNAMIC MESSAGE SIGN, TYPE _ SHALL BE:</p> |
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