TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION, MODIFICATION AND/OR REBUILD SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION INCLUDING SUBSEQUENT PUBLISHED RULINGS.
2. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL/CCTV INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE CURRENT GDOT/COBB COUNTY SPECIFICATIONS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT COBB COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR IS REQUIRED TO MAINTAIN VEHICLE DETECTION WITHOUT INTERRUPTION FOR ALL TRAFFIC SIGNAL PHASES DURING CONSTRUCTION OF THE PROJECT. APPROVED VIDEO DETECTION SHALL BE USED FOR PRESENCE DETECTION AND APPROVED VIDEO OR MICROWAVE DETECTION SHALL BE USED FOR PULSE DETECTION. TEMPORARY POLES MAY BE REQUIRED TO SUPPORT THESE DETECTION DEVICES DURING PROJECT CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS, CCTV, AND COMMUNICATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL/CCTV OPERATION INCLUDING COMMUNICATIONS TO BE INOPERABLE. ANY NECESSARY INTERRUPTION IN COMMUNICATION OR OPERATION DUE TO CONSTRUCTION MUST BE APPROVED BY COBB COUNTY TRAFFIC ENGINEER OR HIS/HER DESIGNEE.
6. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES, CONDUIT, AND PULL BOXES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF FIVE (5) FEET) IN THE LOCATION OF NEW SIGNAL POLES, CONDUIT, AND PULL BOXES, SHALL BE AT THE DISCRETION OF THE COBB SIGNAL DESIGN ENGINEER.
7. PROVIDE A MINIMUM OF 10' CLEARANCE BETWEEN POWER LINES AND MAST ARMS. RAISE POWER LINES IF NECESSARY.
8. ALL INSTALLED FIBER OPTIC CABLE SHALL BE THE FIRST CABLE ATTACHED BELOW THE NEUTRAL CONDUCTORS. THE VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER AND THE ATTACHMENT POINT OF THE NEUTRAL CONDUCTOR SHALL BE A MINIMUM OF 40 INCHES, AND THE VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER OPTIC CABLE AND THE LOWEST POINT OF THE NEUTRAL CONDUCTOR (IN THE SPAN OR AT THE CROSSING) SHALL BE MINIMUM OF 12 INCHES. THE MINIMUM VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER AND ATTACHMENT POINT OF ALL OTHER CABLES SHALL BE A MINIMUM OF 12 INCHES.
9. POLE FOUNDATIONS SHALL CONFORM TO GDOT STANDARD CAISSON DETAILS FOR SITE SOIL STRENGTH. FOUNDATIONS SHALL BE ENLARGED AS NECESSARY TO COMPENSATE FOR INFERIOR OR FILL SOIL.
10. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL HEADS.
11. WHERE SIGNAL AND PEDESTRIAN HEADS ARE INDICATED TO BE INSTALLED OR REPLACED THIS SHALL INCLUDE ANY AND ALL HARDWARE TO COMPLETE THE INSTALLATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
13. THE SIGNAL INSPECTOR (770-528-3679) MUST BE CONTACTED THREE (3) DAYS IN ADVANCE OF POURING CONCRETE FOUNDATIONS TO VERIFY BOLT PATTERNS AND CONDUIT PLACEMENT.
14. WHEN REMOVED, EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE COBB COUNTY DEPARTMENT OF TRANSPORTATION, 1890 COUNTY SERVICES PARKWAY, MARIETTA, GEORGIA 30008. THE CONTRACTOR SHALL PROVIDE AN INVENTORY LIST OF RETURNED EQUIPMENT AND ARRANGE A MUTUALLY AGREEABLE DELIVERY TIME WITH THE COBB COUNTY WAREHOUSE TECHNICIAN TWENTY-FOUR (24) HOURS (770-528-4379) IN ADVANCE.
15. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE COBB COUNTY TRAFFIC ENGINEER OR HIS/HER DESIGNEE PRIOR TO FINAL ACCEPTANCE.
16. THE CONTRACTOR SHALL CONTACT COBB COUNTY DEPARTMENT OF TRANSPORTATION FOR A PRE-CONSTRUCTION MEETING TO BE HELD AT THE COBB COUNTY DOT OFFICE, AT WHICH TIME THE CONTRACTOR SHALL ISSUE A LETTER TO COBB COUNTY DOT ACCEPTING RESPONSIBILITY OF THE SPECIFIED INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND MAINTAIN CONTROL OF THE SIGNAL UNTIL FINAL ACCEPTANCE OF THE SIGNAL BY COBB COUNTY DEPARTMENT OF TRANSPORTATION.
17. INSTALL (4) EA. 3" NONMETAL CONDUIT AND (2) EA. 1" NONMETAL CONDUIT BETWEEN THE CONTROL CABINET AND ITS ADJACENT PULLBOX.
18. INSTALL (3) EA. 2" NONMETAL CONDUIT AND (2) EA. 1" NONMETAL CONDUIT BETWEEN EACH STEEL STRAIN POLE (WITH OR WITHOUT MAST ARM) AND ITS ADJACENT PULLBOX.
19. INSTALL (2) EA. 2" NONMETAL CONDUIT AND (1) EA. 1" NONMETAL CONDUIT BETWEEN PEDESTAL POLE AND ITS ADJACENT PULLBOX.
20. APPROVED VIDEO DETECTION CAMERAS AND 2070 CONTROLLERS SHALL BE CAPABLE OF WORKING IN THE EXISTING ADAPTIVE TRAFFIC CONTROL SYSTEM (SCATS) AND BE IP ADDRESSABLE.
21. APPROVED CCTV SURVEILLANCE CAMERAS SHALL BE IP ADDRESSABLE WITH BUILT-IN ENCODER.
22. LFE OR EQUIVALENT TRAFFIC SIGNAL HEADS ARE REQUIRED WITH PIXELATED L.E.D. MODULES.
23. PEDESTRIAN SIGNAL HEADS SHALL BE LED (ITE STANDARD) PEDESTRIAN AND COUNTDOWN (16"X 18" TYPE W/OVERLAPPING FULLY POPULATED HAND AND MAN + COUNTDOWN) AND SHALL BE INSTALLED FOR ALL PEDESTRIAN SIGNAL HEADS.
24. MOMENTARY PUSHBUTTONS (PRESSURE SENSITIVE) SHALL BE INSTALLED FOR ALL PUSHBUTTONS.
25. GROUNDING SHALL BE 5 OHMS OR LESS.
26. CONNECT POWER SERVICE TO CABINET WITH 1 INCH RIGID CONDUIT AND RISER.
27. ALL D3'S (STREET NAME SIGNS ON MAST ARMS OR SPAN WIRE) SHALL BE FURNISHED AND INSTALLED BY THE SIGNAL CONTRACTOR. REFER TO SIGNING AND MARKING GENERAL NOTES FOR SPECIFICATIONS.
28. MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.
29. THE SIGNAL CONTRACTOR IS RESPONSIBLE FOR RELOCATIONS OF ANY SIGNAL WIRES AND/OR FIBER OPTIC CABLES ASSOCIATED WITH THIS PROJECT, INCLUDING POWER SERVICE TO SIGNAL EQUIPMENT. THIS ALSO INCLUDES RELOCATIONS OF EXISTING SIGNAL FACILITIES TO ALLOW OTHER UTILITY COMPANIES TO RELOCATE THEIR FACILITIES.
30. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
31. THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT GEORGIA811 BEFORE BEGINNING CONSTRUCTION.
32. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES.
33. THE CONTRACTOR IS REQUIRED TO MAINTAIN FULL ACTUATED OPERATION OF ALL PEDESTRIAN SIGNALS AT THIS INTERSECTION DURING ALL PHASES OF CONSTRUCTION. THIS INCLUDES ACCESS TO ALL EXISTING PEDESTRIAN PUSH BUTTONS AND CROSSWALKS. INSTALLATION OF TEMPORARY POLES OR PEDESTALS, PEDESTRIAN SIGNAL DISPLAYS, PUSH BUTTONS, CONDUIT, OR WIRING MAY BE REQUIRED.
34. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICIAN WITH AN IMSA LEVEL II CERTIFICATION AT ANY TIME THE CONTRACTOR IS PRESENT ON THE JOB SITE.
35. APPROXIMATE LOCATIONS OF VIDEO DETECTION CAMERAS ARE SHOWN ON THE PLANS. THE FINAL LOCATION OF ALL VIDEO DETECTION CAMERAS MUST BE APPROVED BY THE SIGNAL INSPECTOR. RELOCATION OF UNAPPROVED VIDEO DETECTION CAMERAS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.