

TRAFFIC CONTROL GENERAL NOTES

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLERS AND ASSOCIATED EQUIPMENT, DETECTOR UNITS, AND INTERCONNECTION ITEMS.

CUSTOMARY MANUFACTURERS' GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE CITY OF MENTOR ENGINEER FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE FULL MANUFACTURERS' GUARANTEES (MINIMUM 12 MONTHS) SHALL GO INTO EFFECT ON THE DATE OF ACCEPTANCE BY THE CITY OF MENTOR.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

SIGN LOCATIONS

SIGN LOCATIONS OF EXISTING AND PROPOSED SIGNS ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR PRIOR TO ERECTION OF ALL SIGN SUPPORTS (POSTS, BEAMS, AND OVERHEADS) SHALL STAKE THE PROPOSED LOCATION, INCLUDING OFFSET. OVERHEAD SUPPORT LOCATIONS SHALL ALSO INCLUDE FOUNDATION ELEVATIONS. THE ENGINEER SHALL APPROVE ALL SUPPORT LOCATIONS AND MAY ADJUST THE LOCATION TO CORRECT SLOPE AND SUBSURFACE DIFFICULTIES, SIGN SIGHT DISTANCE OBSTRUCTIONS, IMPROVE SAFETY AND ELIMINATE OVERHEAD OBSTACLES.

PAYMENT FOR STAKING SHALL BE INCIDENTAL TO THE VARIOUS SIGN SUPPORT ITEMS.

MISCELLANEOUS CONSTRUCTION NOTES

- 1) ALL PULL BOXES AND DRAINAGE CONDUIT SHALL DRAIN TOWARD THE ROADWAY RIGHT-OF-WAY, AS APPROPRIATE.
- 2) ALL SIGN SHEETING SHALL BE TYPE G.
- 3) STREET NAME SIGNS SHALL BE WHITE LETTERING ON A BLUE BACKGROUND. SIGNS SHALL CONFORM TO STANDARD DIMENSIONING FOR TYPE D-11 SIGNS.
- 4) THE SIGNAL CONTRACTOR SHALL CONTACT THE CITY OF MENTOR ENGINEERING DEPARTMENT FOR SIGNAL TIMING PLANS. THE CITY OF MENTOR CONTACT PERSON FOR SIGNAL TIMING IS:

ALLEN E. PENNINGTON
ASSISTANT TO THE CITY ENGINEER - TRAFFIC
(440) 255-1100
- 5) CONTRACTOR SHALL HAVE AN IMSA LEVEL 2 CERTIFIED TRAFFIC SIGNAL TECHNICIAN ON THE JOB SITE DURING PERFORMANCE OF ANY SIGNAL RELATED CONSTRUCTION OPERATIONS.

ITEM 632. VEHICULAR SIGNAL HEAD. (BY TYPE). 12" LENS. POLYCARBONATE. AS PER PLAN

SECTION 732.01 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND MEET I.T.E. SPECIFICATIONS.
- B) GLASS LENSES SHALL BE USED.
- C) PROPER EXTERIOR COLORS SHALL BE OBTAINED BY THE USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
- D) SIGNAL HEADS SHALL BE RIGIDLY MOUNTED ON THE MAST ARMS WITH THE RED LENS CENTERED ON THE CENTERLINE OF THE MAST ARM.
- E) THE CITY ENGINEER OR HIS REPRESENTATIVE SHALL FIELD LOCATE ALL SIGNAL HEADS FOR THE CONTRACTOR. THE CONTRACTOR SHALL FIELD DRILL ALL HOLES INTO MAST ARMS FOR VEHICLE SIGNAL WIRING AFTER THE ENGINEER HAS LOCATED THE SIGNALS. NO PRE-DRILLED VEHICLE SIGNAL WIRING HOLES WILL BE ALLOWED.

ITEM 632. PEDESTRIAN SIGNAL HEAD. TYPE D2. AS PER PLAN

SECTION 732.05 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) PEDESTRIAN SIGNAL HOUSINGS MAY BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND SHALL MEET I.T.E. SPECIFICATIONS.
- B) VISORS SHALL BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND MEET I.T.E. SPECIFICATIONS.
- C) PLASTIC LENSES SHALL BE USED.
- D) PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- E) SIGNALS SHALL BE ATTACHED TO POLES AS SHOWN ON TC-85.10. THE PEDESTRIAN SIGNAL HEAD BRACKET ARMS SHALL BE ATTACHED TO THE POLES BY UTILIZING 1 1/2" BLIND HALF COUPLINGS WELDED TO THE POLE.
- F) SIGNALS SHALL DISPLAY THE UPRaised PALM AND WALKING PERSON SYMBOLS.
- G) PROPER EXTERIOR COLORS FOR POLYCARBONATE PLASTIC SIGNAL HOUSING SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

ITEM 632. SIGNALIZATION MISC.: POWER SERVICE & INTERCONNECT FOR TRAFFIC SIGNALS

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POWER SERVICE AND INTERCONNECT FROM THE UTILITY POLE POWER/INTERCONNECT SOURCE, AS COORDINATED WITH THE ENGINEER AND CEI, TO THE INTERSECTION CONTROLLER. THE FOLLOWING CONTINGENCY ITEMS HAVE BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 625-25400 - CONDUIT, 2", 713.04 - 720 LIN.FT.
- ITEM 625-29000 - TRENCH - 360 LIN.FT.
- ITEM 625-31600 - PULLBOX MISC.: 713.081, 13"x24", AS PER PLAN - 2 EACH
- ITEM 632-70001 - POWER SERVICE, AS PER PLAN - 1 EACH
- ITEM 625-36000 - SPECIAL PLASTIC CAUTION TAPE - 360 LIN.FT.
- ITEM 632-53202 - INTERCONNECT CABLE, 6 PAIR, NO. 19 AWG, SOLID, REA (PE-39) - 402 LIN.FT.
- ITEM 632-68300 - POWER CABLE, 3 CONDUCTOR, NO. 6 AWG - 402 LIN.FT.
- ITEM 632-70400 - CONDUIT RISER, 2" DIAMETER - 1 EACH

CALCULATED
T.A.F. & T.E.B.
CHECKED
L.M.H.

S.R. 615
TRAFFIC CONTROL GENERAL NOTES

LAK-IR90/SR615-9.26/1.51

290
393