

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF ST. CHARLES PKWY. AND POST OFFICE ROAD /HIGH STREET IN CHARLES COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FOURTH LEG TO THE INTERSECTION. ST. CHARLES PKWY. IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL BE UPGRADED TO OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF ST. CHARLES PKWY. AND CONCURRENT SIDE STREET PHASING. AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF ST. CHARLES PKWY. WILL BE PROVIDED, AND CONCURRENT PEDESTRIAN PHASE FOR THE SOUTH LEG OF HIGH STREET.

CONTROLLER REQUIREMENTS

A NEW EIGHT-PHASE, FULLY-ACTUATED CONTROLLER WITH ONE (1) FOUR CHANNEL, LOOP DETECTOR AMPLIFIER AND ONE (1) VIDEO DETECTION INTERFACE RACK EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET WILL BE INSTALLED AT THE INTERSECTION.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1019
MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1013
MR. JOE HORTY ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 841-1041

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630
MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631
MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

Table with columns: ITEM NO., QUANTITY, DESCRIPTION. Content: NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

Table with columns: QUANTITY, DESCRIPTION. Lists various electrical and traffic control components like cables, conduits, and detectors.

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY

ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

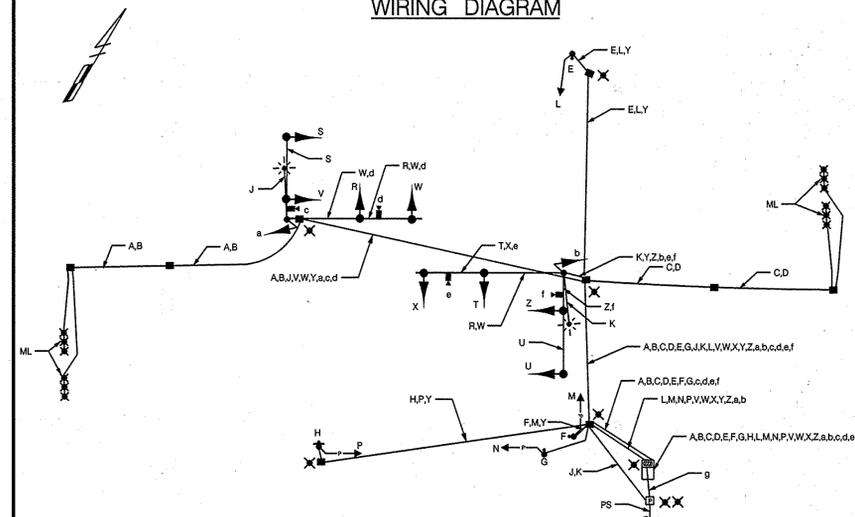
Table with columns: ITEM NO., QUANTITY, DESCRIPTION. Content: NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART

Phasing chart showing traffic signal phases (e.g., PHASE 1 & 5, PHASE 1 & 6) and their corresponding signal states (R, G, Y) for different directions.

WIRING DIAGRAM



WIRING KEY

- List of symbols and their meanings: A-D - MICRO-LOOP PROBE LEAD-IN, E-H - 2-CONDUCTOR ELECTRICAL CABLE, J-K - 2-CONDUCTOR ELECTRICAL CABLE TRAY, L,M,N,P - 3-CONDUCTOR ELECTRICAL CABLE, R,S,T,U - 5-CONDUCTOR ELECTRICAL CABLE, V,W,X,Z,a,b - 7-CONDUCTOR ELECTRICAL CABLE, c,d,e,f - VIDEO DETECTION CABLE, Y - STRANDED BARE COPPER GROUND WIRE, g - 1-CONDUCTOR ELECTRICAL CABLE, ML - MICRO-LOOP PROBE, PS - PROPOSED ELECTRIC SERVICE, X - GROUND ROD

SHA logo and text: STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION PLAN ST. CHARLES PKWY. AND POST OFFICE ROAD /HIGH STREET

TRAFFIC CONCEPTS, INC.

325 Gambrells Road Suite E Gambrells, MD 21054 (410) 923-7101 FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

Table with project details: SCALE NONE, DATE 11-08-07, CONTRACT NO., DESIGNED BY T. ZAYDEL, COUNTY CHARLES, DRAWN BY T. ZAYDEL, LOGMILE NA, CHECKED BY S. RENZI, T.I.M.S. NO. 1-693, F.A.P. NO. NA, TOD NO., DRAWING NO. TS-9633A GI, SHEET NO. 4 OF 4