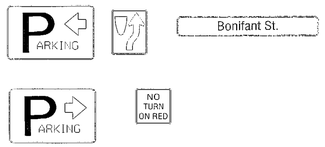
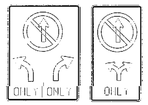
US 29 IS ASSUMED TO RUN IN
A NORTH/SOUTH DIRECTION

EXISTING SIGNS TO BE REMOVED

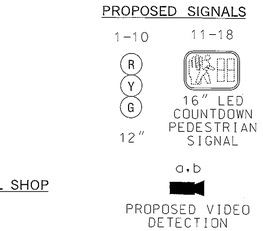


EXISTING SIGNALS TO BE REMOVED

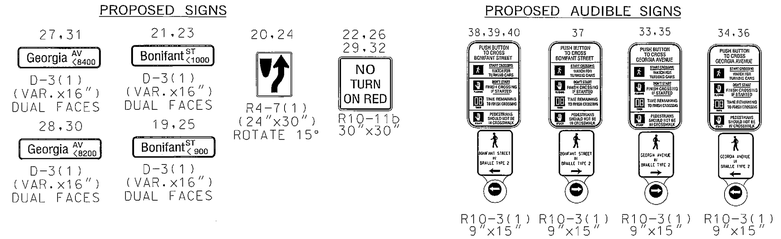
EXISTING SIGNS TO BE REMOVED AND RETURNED TO MONTGOMERY COUNTY SIGNAL SHOP



PROPOSED SIGNALS

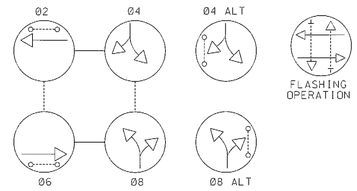


PROPOSED SIGNS



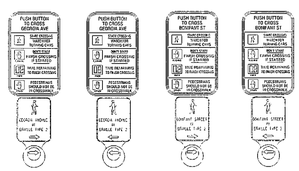
PROPOSED AUDIBLE SIGNS

NEMA PHASING



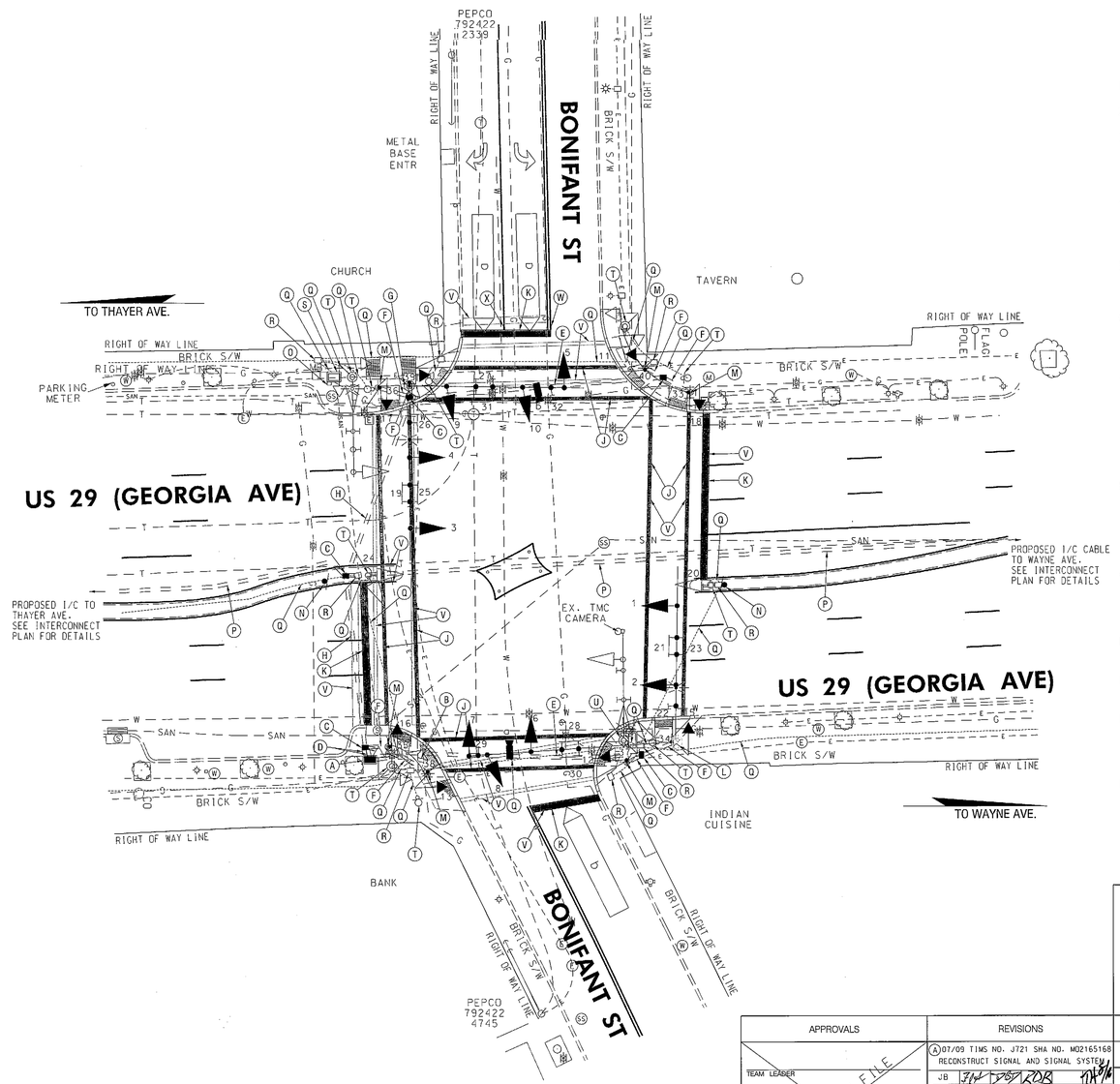
PHASING NOTES:

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



CONSTRUCTION DETAILS

A. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. SCHEDULE 80 CONDUIT BENDS)
B. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FROM MANHOLE TO TRAFFIC SIGNAL CABINET (SERVICE COORDINATED BY TRAFFIC OPERATIONS DIVISION - SHA).
C. INSTALL HANDHOLE.
D. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. (REMOVE AND RESET BRICK AS NECESSARY)
E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. (REMOVE AND RESET BRICK AS NECESSARY)
G. INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE ("T" DIMENSION 15' - MD STD. NO. 818.13-01) WITH TWIN 50/50 FT MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN (NOTE: POLE AND MAST ARM TO BE PAINTED TIGER DRYLACK GREEN RAL 6009, WITH TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
H. INSTALL 2-4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED IN ONE TRENCH.
J. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALKS.
K. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
L. INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE ("T" DIMENSION 15' - MD STD. NO. 818.13-01) WITH TWIN 50/60 FT MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN (NOTE: POLE AND MAST ARM TO BE PAINTED TIGER DRYLACK GREEN RAL 6009, WITH TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
M. INSTALL CONCRETE FOUNDATION FOR 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD STD. NO. 818.16-01), COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN (NOTE: POLE TO BE PAINTED TIGER DRYLACK GREEN RAL 6009) WITH ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND.
N. INSTALL GROUND MOUNTED SIGN.
O. EXISTING POWER FEED TO BE REMOVED BY OTHERS.
P. PROPOSED INTERCONNECT SHOWN FOR INFORMATION PURPOSE ONLY, SEE INTERCONNECT PLAN FOR CONDUIT DETAILS.
Q. CAP AND ABANDON EXISTING CONDUIT.
R. REMOVE EXISTING HANDHOLE.
S. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. (RETURN CABINET AND ASSOCIATED EQUIPMENT TO MONTGOMERY COUNTY SIGNAL SHOP.)
T. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. (RETURN VIDEO DETECTION CAMERAS TO MONTGOMERY COUNTY SIGNAL SHOP.)
U. REMOVE EXISTING POLE, POLE MOUNTED CABINET, AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
V. REMOVE EXISTING PAVEMENT MARKINGS.
W. INSTALL 5 IN. DOUBLE YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.
X. INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.



GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

==========	STORM DRAIN
— — G — — —	GAS MAIN
— — W — — —	WATER MAIN
— — SAN — — —	SEWER MAIN
— — E — — —	ELECTRIC CABLES
— — T — — —	TELEPHONE CABLES
— — FO — — —	FIBER-OPTIC

BY: xiaoyu

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
9240 Rumsey Road, Suite C
Columbia, Maryland 21045
Phone 410-884-3607
www.brudis.com

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

A 07/09 TIMS NO. J721 SHA NO. M02165168 RECONSTRUCT SIGNAL AND SIGNAL SYSTEM

JB

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 29 (GEORGIA AVE) AT BONIFANT ST
TRAFFIC SIGNAL DESIGN
SILVER SPRING, MD

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' DATE 042307 CONTRACT NO.

DESIGNED BY RZ
DRAWN BY WN
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15002900.61
TIMS NO. J721
TOD NO.

TS NO. 4572A | DRAWING – 1 OF 3 | SHEET NO. 5 OF 26

PLOTTED: Wednesday, July 15, 2009 AT 02:36 PM
FILE: p:\04-005 signals\us 29 thru silver spring\Bonifant St\Drawings\CADD\Working\pSG-P001_US29@BonifantSt.dgn