MD 108 IS MAINLINE AND IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNS TO BE REMOVED

32 RIGHT LANE ENDS
38 WEST MARYLAND 108
Georgia Avenue 25.27 28.56
Olney-Sandy Spring Rd / Olney-Laytonsville Rd 49
48 R3-6 30"X36"
Olney-Sandy Spring Rd / Olney-Laytonsville Rd 55

EXISTING SIGNS TO BE REMOVED AND REPLACED

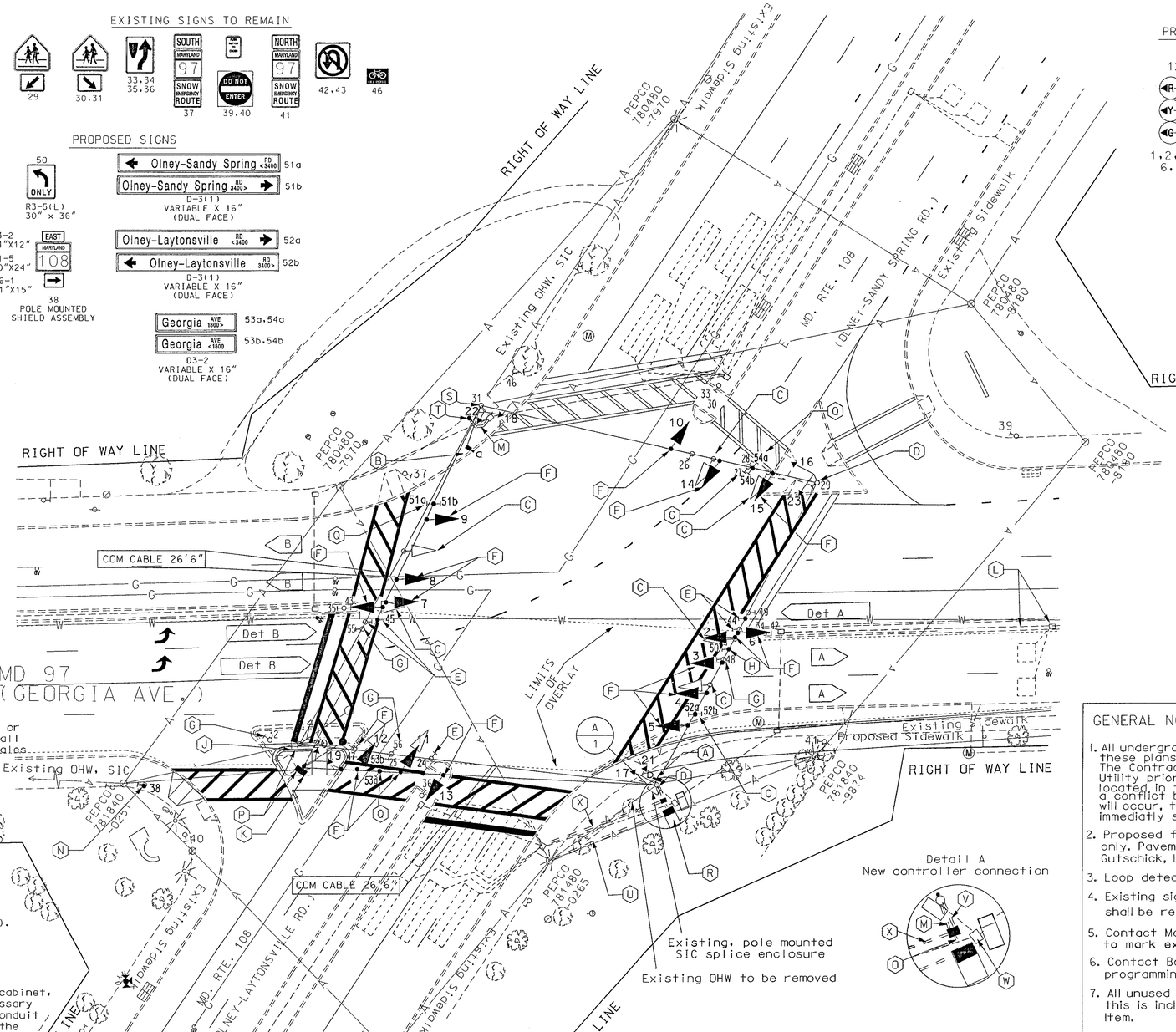
24.26 R10-12 30"X36" LEFT TURN YIELD ON GREEN
44.45 R3-5(L) 30"X36" ONLY
47 R3-5(R) 30"X36" ONLY

EXISTING SIGNS TO REMAIN

29, 30.31, 33.34 35.36, 37 SOUTH MARYLAND 97 SNOW EMERGENCY ROUTE, 39.40 DO NOT ENTER, 41 NORTH MARYLAND 97 SNOW EMERGENCY ROUTE, 42.43, 46

PROPOSED SIGNS

50 R3-5(L) 30" x 36" ONLY
M3-2 24"X12" M1-5 30"X24" M6-1 21"X15" EAST MARYLAND 108 38 POLE MOUNTED SHIELD ASSEMBLY
Olney-Sandy Spring RD. <3400 51a
Olney-Sandy Spring RD. >3400 51b
D-3(1) VARIABLE X 16" (DUAL FACE)
Olney-Laytonsville RD. <3400 52a
Olney-Laytonsville RD. >3400 52b
D-3(1) VARIABLE X 16" (DUAL FACE)
Georgia AVE. >1800 53a,54a
Georgia AVE. <1800 53b,54b
D3-2 VARIABLE X 16" (DUAL FACE)



PROPOSED BLACK-FACED SIGNAL HEADS

12" 1,2,3, 6,7
12" 4,5,8, 9,12,15
12" 11,14
12" 16-23
12"/8" 10,13

PROPOSED VIDEO DETECTION CAMERA

a,b

PROPOSED NEMA PHASING

ϕ1 ϕ2 ϕ3 ϕ4 ϕ4 ALT.
ϕ5 ϕ6 ϕ7 ϕ8 ϕ8 ALT.

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 Video Detection mounted to signal upright.
B. Install Video Detection, 15 ft. arm, and mounting hardware.
C. Remove existing traffic signal head.
D. Remove existing pedestrian signal heads, pushbuttons and signs and replace with new black-faced pedestrian signal heads and new pushbuttons and signs in same location, as shown.
E. Remove existing span wire mounted sign and install new sign at location shown.
F. Install new black-faced traffic signal head as shown.
G. Remove existing sign.
H. Install new span wire mounted sign, as shown.
J. Remove and dispose of existing pole, signs, signal heads, span wire, associated wiring, etc. Montgomery county forces to relocate or install new TMC cabinet, intersection camera, and all associated wiring on new pole. Contact Robert Gonzales (240)777-8761
K. Install new strain pole, signs, spanwire, pedestrian heads, and pushbuttons, as shown (Note one -3 in. PVC schedule 80 conduit bend and four - 1¾in. x 90 in. anchor bolts).
L. Abandon existing loops.
M. Install 2" Schedule 80 PVC Conduit (trenched).
N. Remove existing pole mounted sign and replace with new sign as shown.
O. Install 2 new 4" schedule 80 PVC conduit (trenched).
P. Relocate cabinet and reuse existing, overhead interconnect wires and TMC wires.
Q. Install new spanwire mounted sign.
R. Install a NEMA size "6" ground mounted controller cabinet, electrical utility service equipment, and all necessary equipment. (Note: 2-4" and 2-2" PVC schedule 80 conduit bends). Pull all proposed electrical cables into the controller cabinet and properly tag/label each cable. All internal wiring shall be conducted by Mont Co forces.
S. Remove existing pedestrian signal heads, pushbutton and sign and replace with new black-faced pedestrian signal heads in same location, as shown.
T. Install new pedestrian pole (cut to 4') with pushbutton and sign. Replace sidewalk as needed.
U. Install 3 inch PVC Schedule 80 Conduit - trenched. Stub out conduit bend at base of power pole and coil up 35 ft of slack of 3 - 1 conductor #4 AWG cable (PEPCO #781480-0265).
V. Install 2 new 3 inch Schedule 80 PVC conduit (trenched).
W. Remove existing handbox.
X. Install 3 inch Schedule 80 PVC Conduit (trenched).

UTILITY LEGEND

G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES

GENERAL NOTES:

1. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the project Engineer immediatly so that the conflict may be resolved.
2. Proposed final pavement markings shown here for reference only. Pavement markings are to be installed by others as per Gutschick, Little, & Weber signing and pavement marking plans.
3. Loop detectors not shown for reuse are to be abandoned.
4. Existing signal equipment, conduits, conductors, handholes, etc. shall be reused and protected in place unless otherwise shown.
5. Contact Montgomery County TMC 72 hours prior to any digging to mark existing underground signal equipment (240)777-2100
6. Contact Bob Gonzales one week in advance to schedule the programming of the video detection equipment.
7. All unused signal cables are to be removed. The cost of this is included in the Remove and Dispose of Signal Equipment Item.

1 REDLINE #1 NEW SHEET 7/25/03

REVISIONS

1 REDLINE #1 REVISION TO GEOMETRIC IMPROVEMENTS IN THE SE CORNER LED TO TRAFFIC SIGNAL MODIFICATION. 7/25/03 CONTRACT NO. X210G585
2 GEOMETRIC IMPROVEMENTS TO THE ISLAND IN THE SOUTHEAST CORNER LED TO TRAFFIC SIGNAL MODIFICATION. 5/7/03 CONTRACT NO. X210G585
3 DISCONNECT MAIN LINE EB MD 108 LOOP DETECTORS & REMOVE CABLE FROM CONDUIT. 8/14/96
DJD
4 CHANGE GEOMETRICS AND REPLACE LOOPS. CONTRACT NO. M606-501-371

APPROVALS

ORIGINAL
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ON
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
FILE
DIRECTOR, TRAFFIC & SAFETY

WELLS & ASSOCIATES, LLC
TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS
1420 Spring Hill Rd., Suite 600
McLean, VA 22102
Phone: (703) 917-6620 Fax: (703)917-0739
170 Jennifer Rd., Suite 260
Annapolis, MD 21401
Phone: (301) 970-2402 Fax: (410)266-9189

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL MODIFICATION PLAN
MD 97 (GEORGIA AVENUE) & MD 108 (OLNEY SANDY SPRING ROAD)

DRAWN BY:	WT	F.A.P. NO.	XXX	TS NO. 1218G	SHEET NO.
CHECKED BY:	CT	S.H.A. NO.	XXX		
SCALE:	1" = 20'	COUNTY:	MONTGOMERY	T.I.M.S. NO. F464	1 OF 2
DATE:	4/25/03	LOG MILE:	1500971I.89		