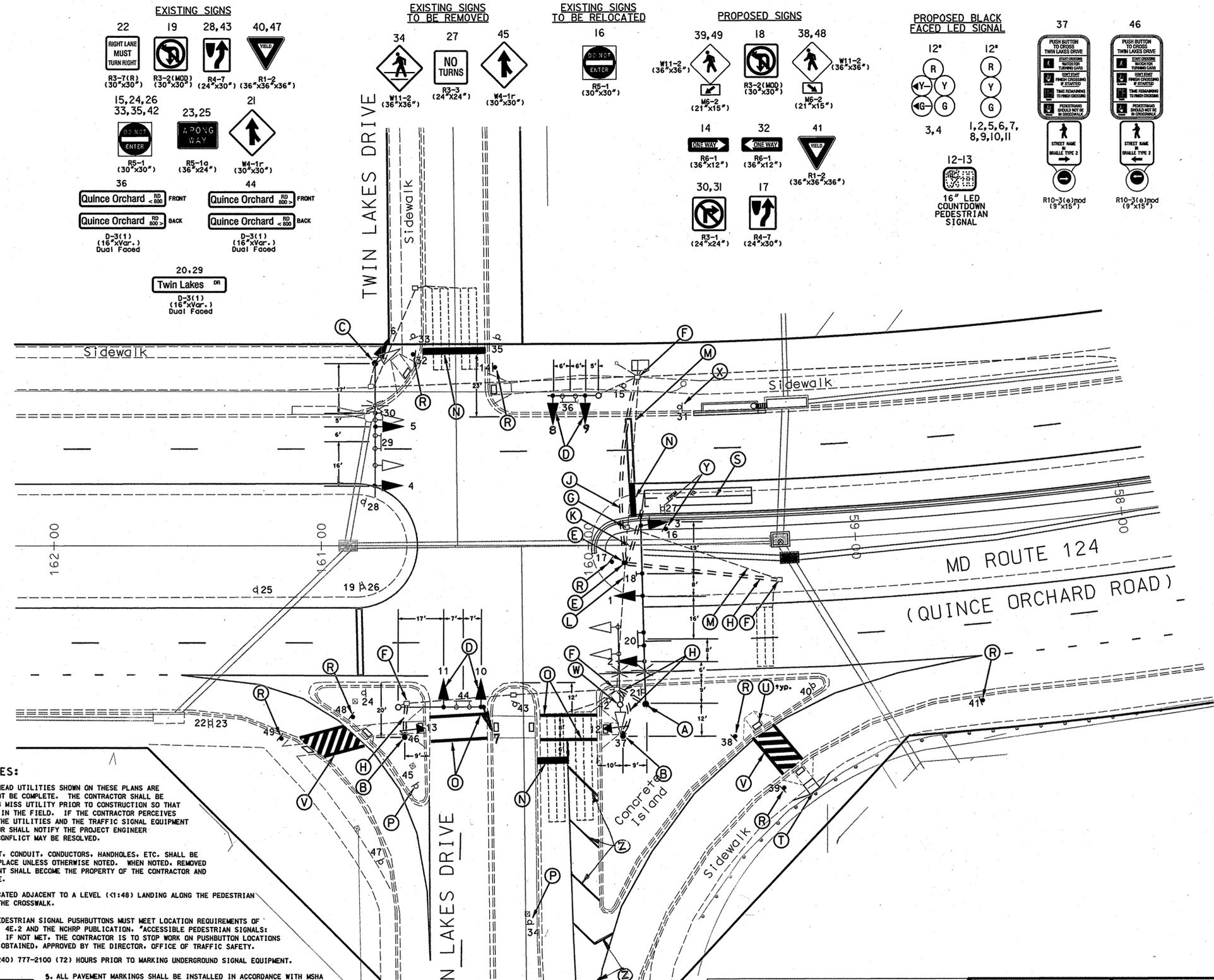
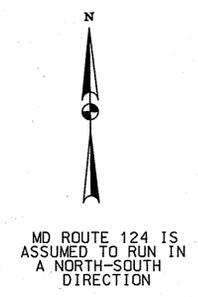


BORDER REV. DATE: June 1, 2004



BY: \$USER\$



EXISTING SIGNS

22 RIGHT LANE MUST TURN RIGHT (R3-7(R) (30"x30"))

19 NO LEFT TURN (R3-2(MOD) (30"x30"))

28, 43 AHEAD (R4-7 (24"x30"))

40, 47 YIELD (R1-2 (36"x36"x36"))

15, 24, 26, 33, 35, 42 ENTER (R5-1 (30"x30"))

23, 25 AHEAD (R5-1a (36"x24"))

21 AHEAD (W4-1r (30"x30"))

36 Quince Orchard RD FRONT (D-3(1) (16"xVar.) Dual Faced)

44 Quince Orchard RD BACK (D-3(1) (16"xVar.) Dual Faced)

20, 29 Twin Lakes RD (D-3(1) (16"xVar.) Dual Faced)

EXISTING SIGNS TO BE REMOVED

34 WALKING (W11-2 (36"x36"))

27 NO TURNS (R3-3 (24"x24"))

45 AHEAD (W4-1r (30"x30"))

EXISTING SIGNS TO BE RELOCATED

16 NO ENTER (R5-1 (30"x30"))

PROPOSED SIGNS

39, 49 WALKING (W11-2 (36"x36"))

18 NO LEFT TURN (R3-2(MOD) (30"x30"))

38, 48 WALKING (W11-2 (36"x36"))

14 ONE WAY (R6-1 (36"x12"))

32 ONE WAY (R6-1 (36"x12"))

41 YIELD (R1-2 (36"x36"x36"))

30, 31 NO LEFT TURN (R3-1 (24"x24"))

17 AHEAD (R4-7 (24"x30"))

PROPOSED BLACK FACED LED SIGNAL

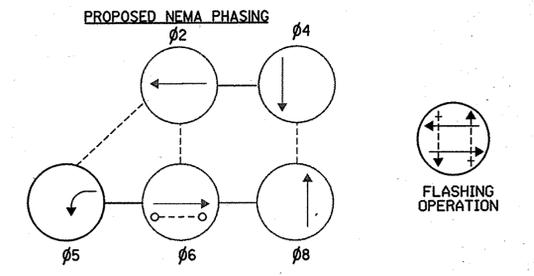
12' R (3, 4)

12' R (1, 2, 5, 6, 7, 8, 9, 10, 11)

12-13 16" LED COUNTDOWN PEDESTRIAN SIGNAL

37 PUSH BUTTON TO CROSS TWIN LAKES DRIVE (R10-3(a) mod (9"x15"))

46 PUSH BUTTON TO CROSS TWIN LAKES DRIVE (R10-3(a) mod (9"x15"))



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

Construction Notes

- Install 27' steel pole with 70' mast arm, LED traffic signal heads, 15' luminaire arm, 250 W HPS luminaire and signs. (Install 1-3" schedule 80, 90 degree PVC electrical conduit bend in pole base)
- Install 10' breakaway pedestal pole with 16" pedestrian signal head and APS pushbutton with R10-3(e) sign.
- Remove existing traffic signal heads. Install proposed LED traffic signal heads as shown.
- Replace existing signal heads with LED traffic signal heads.
- Install electrical handhole.
- Connect proposed conduit to existing handhole.
- Remove existing handhole.
- Install 3", schedule 80, PVC conduit (trenched).
- Install 4", schedule 80, PVC conduit (bored).
- Install 1 - 1" electrical conduit - galvanized sleeve.
- Connect existing conduit to proposed handhole.
- Abandon existing conduit.
- Install 24" white heat applied permanent preformed thermoplastic stopline, as shown.
- Install 12" white heat applied permanent preformed thermoplastic crosswalk, as shown.
- Remove existing sign post and sign(s).
- Install 4"x4" wood post and sign.
- Install 6"x30' quadruple type loop detector (3-6-3 winding).
- Install concrete landing to comply with ADA requirements as shown.
- Install detector warning mat to ADA ramps.
- Install 12" white heat applied permanent preformed thermoplastic crosswalk with hatching per SHA guidelines.
- Remove existing traffic signal pole, heads, signs, and mast arm. Foundation is to be chipped 12" below grade and backfilled.
- Remove existing R3-3 sign and replace with R3-1 sign.
- Remove existing R3-3 sign and post and relocate existing R5-1 to new 4"x4" wood post as shown.
- Install 10" White Perm. Pavement Marking.

GENERAL NOTES:

- 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 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 IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- EXISTING SIGNAL EQUIPMENT, CONDUIT, CONDUCTORS, HANDHOLES, ETC. SHALL BE REUSED AND PROTECTED IN PLACE UNLESS OTHERWISE NOTED. WHEN NOTED, REMOVED OR UNUSED SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF FROM THE SITE.
- PUSHBUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (±148) LANDING ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC SAFETY.
- CONTACT MCDP&T TMC AT (240) 777-2100 (72) HOURS PRIOR TO MARKING UNDERGROUND SIGNAL EQUIPMENT.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 816.01, MD 816.02, MD 816.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE PROPOSED HANDHOLE AND CONDUIT CROSSING THE NB APPROACH SHALL BE INSTALLED PRIOR TO ANY OTHER SIGNAL EQUIPMENT ON PLAN.
- ALL UNUSED CABLE SHALL BE REMOVED FROM CONDUIT AND DISPOSED OF FROM SITE.

GEOMETRIC LEGEND

--- EXISTING

--- PROPOSED

UTILITY LEGEND

SD - STORM DRAIN

G - GAS MAIN

W - WATER MAIN

S - SEWER MAIN

E - ELECTRIC CABLES

A - AERIAL CABLES

T - TELEPHONE CABLES

F - FIBER-OPTIC

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Leesburg, VA 20175
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APPROVALS	REVISIONS
ORIGINAL	
ASST. DIV. CHIEF	① ADDITION OF WESTBOUND LEFT TURN LANE AND PEDESTRIAN EQUIPMENT. SHA NO. 1/4/07
DIVISION CHIEF	② RELOCATE MAST ARM AND LOOPS SHA NO. 10/19/08
OFFICE DIRECTOR	

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL MODIFICATION PLAN

MD 124 (QUINCE ORCHARD ROAD)
AND TWIN LAKES DRIVE
GAITHERSBURG, MARYLAND

SIGNAL PLAN

SCALE 1" = 20' DATE 2-17-83 CONTRACT NO. BW996MB2

DESIGNED BY M.D.G. COUNTY MONTGOMERY

DRAWN BY M.G.D. LOGMILE 15012401.56

CHECKED BY T.J.M.S. NO. 1119

F.A.P. NO. TOD NO.

DRAWING NO. 1997B SHEET NO. 1 OF 2

PLOTTED: #DATEIME# FILE: #FILE#