MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNAL

15,16

PROPOSED SIGNS

18,20 Shawan Road — D-3(I) (DUAL FACED) (VARIABLE X 16")

24,28 York Road — D-3(I) (DUAL FACED) (VARIABLE X 16")

17,19 LEFT TURN YIELD ON GREEN — R10-12 (36" X 42")

21 SOUTH MARYLAND 45 — ASSOCIATED SHIELD ASSEMBLY (24" X 51")

22 NORTH MARYLAND 45 — ASSOCIATED SHIELD ASSEMBLY (36" X 75")

23 ONLY — R3-5L (30" X 36")

25 — R3-6 (30" X 36")

26,27 — R10-4(I) 9"X12"

30 — W3-3 (48" X 48")

29 SOUTH 45 NORTH — M95-1 (72" X 24")

PROPOSED SIGNALS

1,4 — 12"/8"; 2,5 — 12"; 3,6, 9,12 — 12"; 7,10 — 8"/12"; 8,11 — 12"; 13,14

PROPOSED VIDEO DETECTION

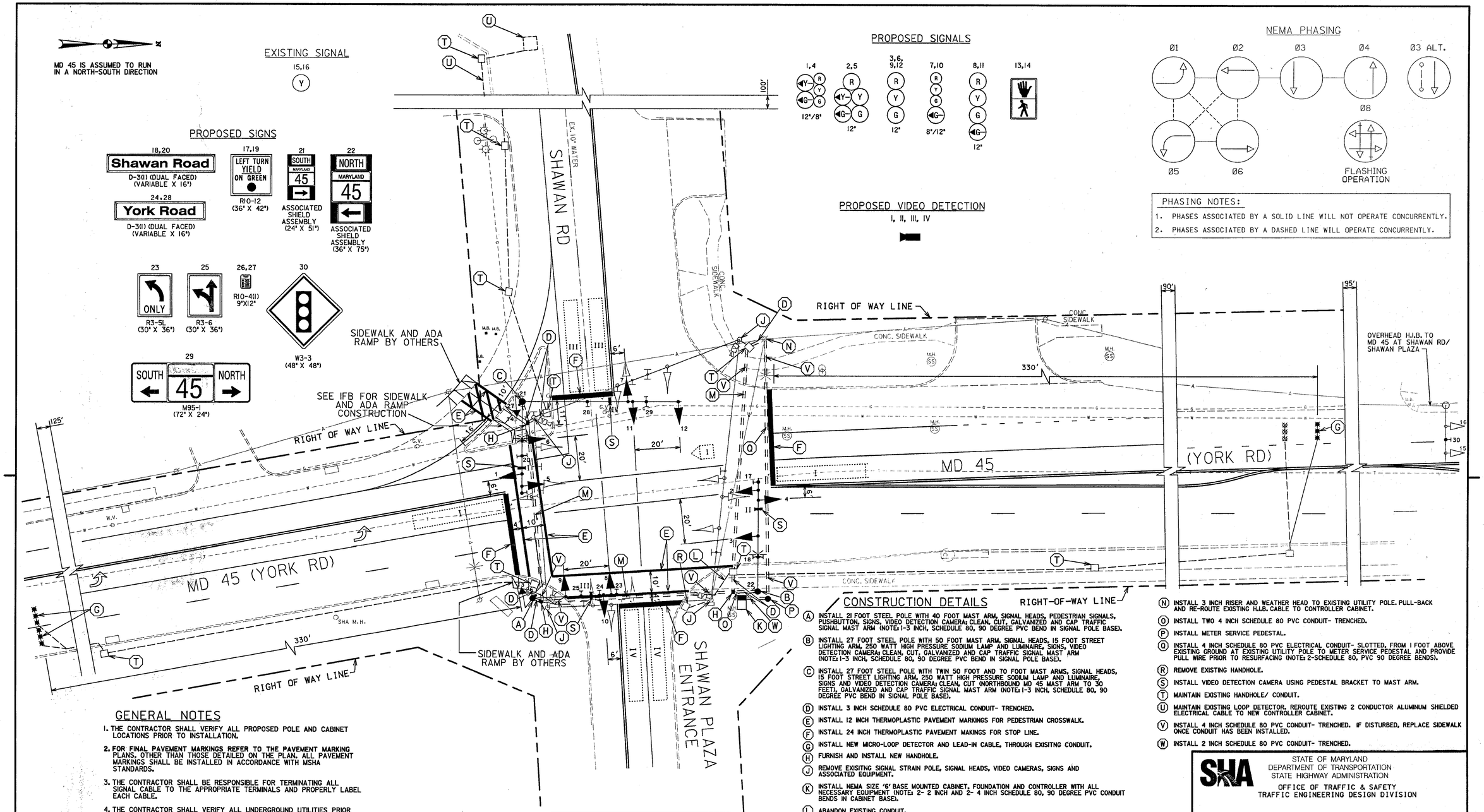
I, II, III, IV

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø3 ALT. Ø8 Ø5 Ø6 FLASHING OPERATION

PHASING NOTES:

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



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. 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 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. THE CONTRACTOR SHALL REMOVE ALL UNUSED SIGNAL CABLE FROM CONDUIT AND EQUIPMENT.
7. REFER TO I.F.B. FOR SIDEWALK RAMP DETAILS.

CONSTRUCTION DETAILS

(A) INSTALL 21 FOOT STEEL POLE WITH 40 FOOT MAST ARM, SIGNAL HEADS, PEDESTRIAN SIGNALS, PUSHBUTTON, SIGNS, VIDEO DETECTION CAMERA; CLEAN, CUT, GALVANIZED AND CAP TRAFFIC SIGNAL MAST ARM (NOTE: 1-3 INCH, SCHEDULE 80, 90 DEGREE PVC BEND IN SIGNAL POLE BASE).

(B) INSTALL 27 FOOT STEEL POLE WITH 50 FOOT MAST ARM, SIGNAL HEADS, 15 FOOT STREET LIGHTING ARM, 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE, SIGNS, VIDEO DETECTION CAMERA; CLEAN, CUT, GALVANIZED AND CAP TRAFFIC SIGNAL MAST ARM (NOTE: 1-3 INCH, SCHEDULE 80, 90 DEGREE PVC BEND IN SIGNAL POLE BASE).

(C) INSTALL 27 FOOT STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS, SIGNAL HEADS, 15 FOOT STREET LIGHTING ARM, 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE, SIGNS AND VIDEO DETECTION CAMERA; CLEAN, CUT (NORTHBOUND MD 45 MAST ARM TO 30 FEET), GALVANIZED AND CAP TRAFFIC SIGNAL MAST ARM (NOTE: 1-3 INCH, SCHEDULE 80, 90 DEGREE PVC BEND IN SIGNAL POLE BASE).

(D) INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT- TRENCHED.

(E) INSTALL 12 INCH THERMOPLASTIC PAVEMENT MARKINGS FOR PEDESTRIAN CROSSWALK.

(F) INSTALL 24 INCH THERMOPLASTIC PAVEMENT MAKINGS FOR STOP LINE.

(G) INSTALL NEW MICRO-LOOP DETECTOR AND LEAD-IN CABLE, THROUGH EXISITNG CONDUIT.

(H) FURNISH AND INSTALL NEW HANDHOLE.

(J) REMOVE EXISITNG SIGNAL STRAIN POLE, SIGNAL HEADS, VIDEO CAMERAS, SIGNS AND ASSOCIATED EQUIPMENT.

(K) INSTALL NEMA SIZE '6' BASE MOUNTED CABINET, FOUNDATION AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2- 2 INCH AND 2- 4 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN CABINET BASE).

(L) ABANDON EXISTING CONDUIT.

(M) INSTALL 4 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT- SLOTTED.

(N) INSTALL 3 INCH RISER AND WEATHER HEAD TO EXISTING UTILITY POLE. PULL-BACK AND RE-ROUTE EXISTING H.I.B. CABLE TO CONTROLLER CABINET.

(O) INSTALL TWO 4 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.

(P) INSTALL METER SERVICE PEDESTAL.

(Q) INSTALL 4 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT- SLOTTED, FROM 1 FOOT ABOVE EXISTING GROUND AT EXISTING UTILITY POLE TO METER SERVICE PEDESTAL AND PROVIDE PULL WIRE PRIOR TO RESURFACING (NOTE: 2-SCHEDULE 80, PVC 90 DEGREE BENDS).

(R) REMOVE EXISTING HANDHOLE.

(S) INSTALL VIDEO DETECTION CAMERA USING PEDESTAL BRACKET TO MAST ARM.

(T) MAINTAIN EXISTING HANDHOLE/ CONDUIT.

(U) MAINTAIN EXISTING LOOP DETECTOR. REROUTE EXISTING 2 CONDUCTOR ALUMINUM SHIELDED ELECTRICAL CABLE TO NEW CONTROLLER CABINET.

(V) INSTALL 4 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED. IF DISTURBED, REPLACE SIDEWALK ONCE CONDUIT HAS BEEN INSTALLED.

(W) INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.

GEOMETRIC LEGEND

EXISTING

PROPOSED

UTILITY LEGEND

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

REVISION D CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
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110 West Road
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Towson, Maryland 21204

APPROVALS

TEAM LEADER
ASST. DIV. DIRECTOR
DIVISION DIRECTOR
OFFICE DIRECTOR

ORIGINAL PLAN ON FILE

REVISIONS

D	RECONSTRUCT SIGNAL BA4925177 APRIL 2005	
C	CHANGED SHAWAN ROAD TO SPLIT PHASING SHA NO. BA7345187	1-14-02
B	ADD ED & WB EP'S FLASHERS AND POLES	7-20-90

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 45 (YORK ROAD) AT SHAWAN ROAD

SIGNAL PLAN SHEET 5

SCALE 1"=20' DATE 3/5/02 CONTRACT NO.

DESIGNED BY
DRAWN BY W.R. SMITH
CHECKED BY D.W.
F.A.P. NO.
COUNTY BALTIMORE
LOGMILE 03004509.21
T.I.M.S. NO. G857
TOD NO.

DRAWING NO. 3007D SHEET NO. OF

Friday, April 15, 2005 AT 11:07 AM

BY: $USERNAME$