US 1 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION

PROPOSED LED SIGNAL HEADS

1: 12"/8" — 2: 12" — 3,5,6,7,8: 12" — 4: 8"

SIGNS TO BE REMOVED

9, 19

TO BE REMOVED BY DISTRICT MAINTENANCE

VIDEO DETECTION

a-b

SIGNS TO REMAIN

18

PROPOSED SIGNS

12: 24"X51" SHIELD ASSEMBLY

17: 36"X75" SHIELD ASSEMBLY

11,15: D95-25 24"x24" W3-3 36"x36"

10,14: D-3(3) 72"x24"

13,16: D-3(2) 60"x16"

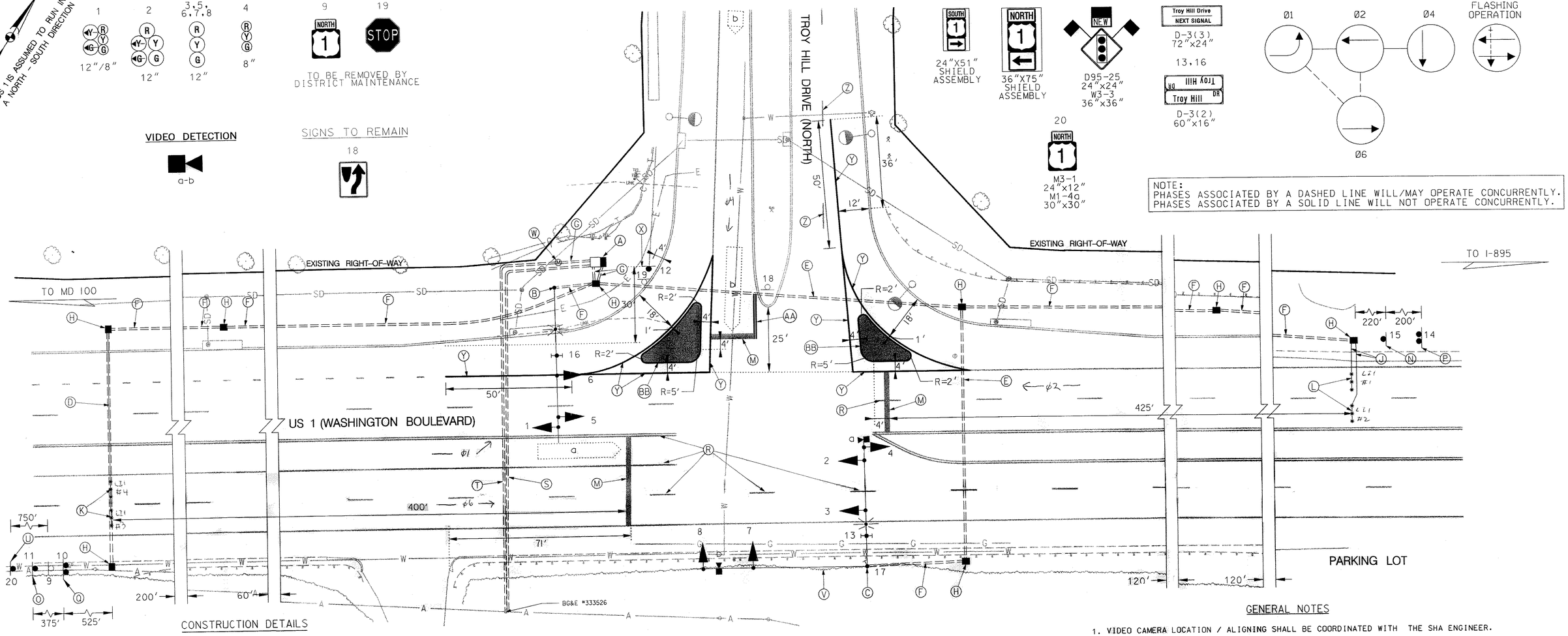
20: M3-1 24"x12" M1-4a 30"x30"

NEMA PHASING

Ø1, Ø2, Ø4, Ø6

FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL/MAY OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET, FOUNDATION, CONTROLLER, VIDEO DETECTION INTERFACE AND ELECTRICAL UTILITY EQUIPMENT, WITH ALL NECESSARY EQUIPMENT. (NOTE: 1-2 IN. AND 3-4 IN. PVC 90 DEGREE BEND)

B. INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, VEHICLE SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA AND A 15 FT. LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

C. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. MAST ARMS, VEHICLE SIGNAL HEADS, VIDEO DETECTION CAMERA AND A 15 FT. LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL. THE 50 FT. MAST ARM IS FOR THE NORTHBOUND APPROACH. SEE DETAIL A. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

D. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)

E. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)

F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)

G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)

H. INSTALL HANDHOLE

J. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRIC CONDUIT (FOR DETECTOR SLEEVE)

K. INSTALL NON-INVASIVE MICROLOOP PROBES

L. INSTALL MICROLOOP PROBES

M. INSTALL 24 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR STOP LINES

N. INSTALL GROUND MOUNTED SIGN (NO. 15) 625 FEET NORTH OF INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SIGN POST. SHA DISTRICT FORCES WILL REMOVE FLAGS AND D95-25 (NEW) SIGN THREE MONTHS AFTER INSTALLATION.

O. INSTALL GROUND MOUNTED SIGN (NO. 11) 1,300 FEET SOUTH OF INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SIGN POST. SHA DISTRICT FORCES WILL REMOVE FLAGS AND D95-25 (NEW) SIGN THREE MONTHS AFTER INSTALLATION.

P. INSTALL GROUND MOUNTED SIGN (NO. 14) 825 FEET NORTH OF INTERSECTION ON TWO 4 IN. X 6 IN. WOOD SIGN POSTS

Q. INSTALL GROUND MOUNTED SIGN (NO. 10) 925 FEET SOUTH OF INTERSECTION ON TWO 4 IN. X 6 IN. WOOD SIGN POSTS

R. REMOVE EXISTING MARKINGS BEYOND STOP LINES

S. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT FOR PROPOSED TELEPHONE SERVICE. BORE PORTION OF CONDUIT UNDER US 1 AND TRENCH THE REMAINING PORTION TO CABINET. THE CONTRACTOR SHALL CAP AND MARK CONDUIT WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.

T. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT FOR PROPOSED ELECTRICAL SERVICE. BORE PORTION OF CONDUIT UNDER US 1 AND TRENCH THE REMAINING PORTION TO METERED SERVICE PEDESTAL. THE CONTRACTOR SHALL CAP, MARK AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.

U. INSTALL GROUND MOUNTED SIGN (NO. 20) 750 FEET SOUTH OF OF ITS CURRENT LOCATION ON ONE 4 IN. X 6 IN. WOOD SIGN POST

V. TRIM TREES AS NECESSARY TO INSTALL SIGNAL EQUIPMENT (TO BE DONE BY DISTRICT MAINTENANCE)

W. INSTALL METERED SERVICE PEDESTAL (NOTE: 2-4 IN. PVC 90 DEGREE BENDS)

X. INSTALL GROUND MOUNTED SIGN (NO. 12) AS SHOWN ON PLAN ON ONE 4 IN. X 6 IN. WOOD SIGN POST

Y. INSTALL 10 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (NOTE: THE 10 IN. MARKING WILL BE PAID FOR AS DOUBLE THE QUANTITY OF 5 IN. MARKING)

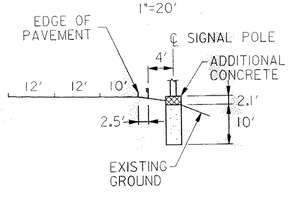
Z. REMOVE EXISTING MARKING

AA. INSTALL 5 IN. HEAT APPLIED DOUBLE YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING

BB. INSTALL HEAT APPLIED SAND COLOR PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ISLAND (NOTE: THE ISLAND WILL BE PAID FOR AS THE LINEAR FOOT QUANTITY OF 12 IN. MARKING)

DETAIL 'A'

1"=20'



GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. 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.
7. 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.
8. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.

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 CABLES

STV Incorporated
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APPROVALS	REVISIONS
TEAM LEADER 1-11-06	
ASST. DIV. CHIEF 1-11-06	
DIVISION CHIEF 1/11/06	
OFFICE DIRECTOR 1/11	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 (WASHINGTON BOULEVARD) AND TROY HILL DRIVE (NORTH)

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE JANUARY 2006 CONTRACT NO. AT7205185

DESIGNED BY S. YOUNG
DRAWN BY S. YOUNG
CHECKED BY B. BIDDLE
F.A.P. NO.

COUNTY HOWARD
LOGMILE 13000108.24
T.I.M.S. NO. G922
TOD NO.

DRAWING NO. TS - 4427 OF SHEET NO. 1 OF 2

PLOTTED: MONDAY, JANUARY 09, 2006 AT 02:53 PM
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BY: THOMPSMA