DRILL HOLES

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BORDER REV: DATE: June 1, 2004

BY: $USERNAME$

MD 355 IS ASSUMED TO RUN IN AN NORTH/SOUTH DIRECTION

RELOCATED SIGNS

13 — WATKINS MILL RD NEXT SIGNAL — D3(3) 24"X72"

19 — CHRISTOPHER AVE NEXT SIGNAL — D3(3) 24"X72"

PROPOSED SIGNS

25 — LEFT LANE MUST U-TURN — R3-7(mod) (30"x30")

14,22 — R3-2(MOD) (30"x30")

17,23 — DO NOT ENTER — R5-1 (30"x30")

15 — W4-1L 30"X30"

12 — NEW — W3-3 (36"x36")

Flex Post

10,11 — R4-7 (24"x30")

16 — KEEP LEFT — R4-7AL (24"x30")

18,26 — OM-1(1) 18"X18"

24 — NORTH MARYLAND 355 SOUTH — M95-1 (MOD) (78"x24")

EXISTING SIGNS

20,21 — ONE WAY — W3-3 (36"x36")

PROPOSED BLACK FACED TRAFFIC SIGNAL HEADS

12" R Y G — 1

12" R Y G — 2,3,4,5,6

12" R Y -Y G -G — 7

12" 16" LED COUNTDOWN PEDESTRIAN SIGNAL — 8,9

a,b PROPOSED VIDEO DETECTION

PROPOSED NEMA PHASING

ø1 ø2 ø4 FLASHING OPERATION

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

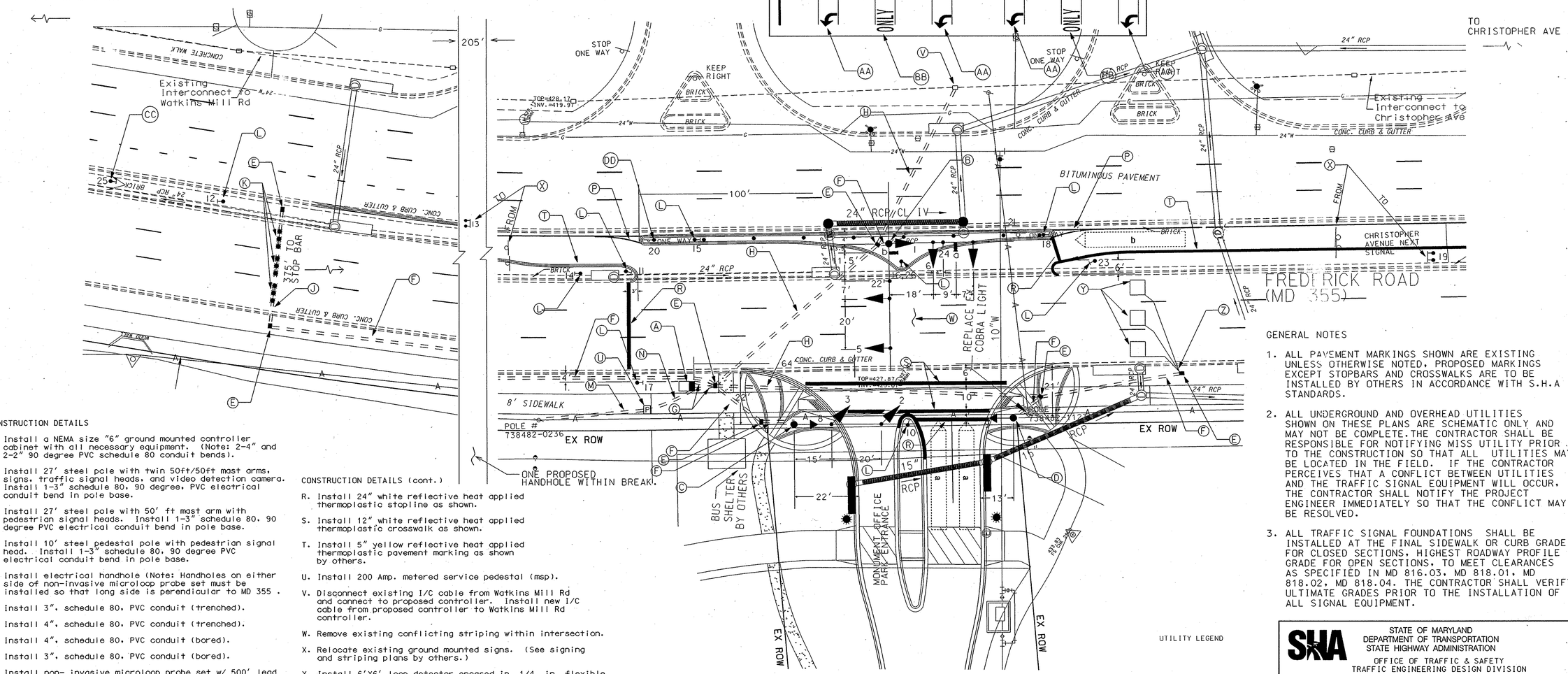
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

PROPOSED STRIPING FROM WATKINS MILL ROAD BY OTHERS

(Located in Left turn lane)

50' 8' 32' 8' 32' 8' 200' 8' 32' 8' 32' 8'

ONLY ONLY



CONSTRUCTION DETAILS

A. Install a NEMA size "6" ground mounted controller cabinet with all necessary equipment. (Note: 2-4" and 2-2" 90 degree PVC schedule 80 conduit bends).

B. Install 27' steel pole with twin 50ft/50ft mast arms, signs, traffic signal heads, and video detection camera. Install 1-3" schedule 80, 90 degree, PVC electrical conduit bend in pole base.

C. Install 27' steel pole with 50' ft mast arm with pedestrian signal heads. Install 1-3" schedule 80, 90 degree PVC electrical conduit bend in pole base.

D. Install 10' steel pedestal pole with pedestrian signal head. Install 1-3" schedule 80, 90 degree PVC electrical conduit bend in pole base.

E. Install electrical handhole (Note: Handholes on either side of non-invasive microloop probe set must be installed so that long side is perendicular to MD 355 .

F. Install 3", schedule 80, PVC conduit (trenched).

G. Install 4", schedule 80, PVC conduit (trenched).

H. Install 4", schedule 80, PVC conduit (bored).

J. Install 3", schedule 80, PVC conduit (bored).

K. Install non- invasive microloop probe set w/ 500' lead in.

L. Install ground mounted sign on 4" X 4" wooden post.

M. Install 3" conduit (trenched) and riser, for power from metered service pedestal (msp) to utility pole with 35' of 3wire 1 conductor (No. 250 KCMil) for power service coiled at base of utility pole for proposed underground electrical service. (Note: 1-3" 90 degree PVC schedule 80 conduit bend.)

N. Install 2" , schedule 80, PVC conduit from msp to cabinet.

P. Install 5" white reflective heat applied thermoplastic pavement marking as shown by others.

CONSTRUCTION DETAILS (cont.)

R. Install 24" white reflective heat applied thermoplastic stopline as shown.

S. Install 12" white reflective heat applied thermoplastic crosswalk as shown.

T. Install 5" yellow reflective heat applied thermoplastic pavement marking as shown by others.

U. Install 200 Amp. metered service pedestal (msp).

V. Disconnect existing I/C cable from Watkins Mill Rd and connect to proposed controller. Install new I/C cable from proposed controller to Watkins Mill Rd controller.

W. Remove existing conflicting striping within intersection.

X. Relocate existing ground mounted signs. (See signing and striping plans by others.)

Y. Install 6'X6' loop detector encased in 1/4 in. flexible tubing.

Z. Install 3 - 1 inch liquid tight flexible non-metallic electical conduit (detector wire sleeve).

AA. Install heat applied white perminant preformed thermoplastic pavement marking arrows as shown by others.

BB. Install heat applied white perminant preformed thermoplastic pavement marking letters as shown by others.

CC. Install ground mounted sign on 4"X4" wooden post as shown by others.

DD. Install flex posts every 20' as shown.

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED, PROPOSED MARKINGS EXCEPT STOPBARS AND CROSSWALKS ARE TO BE INSTALLED BY OTHERS IN ACCORDANCE WITH S.H.A STANDARDS.

2. 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

3. 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.

UTILITY LEGEND

WELLS & ASSOCIATES, LLC

TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS

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APPROVALS	
TEAM LEADER	8-8-05
ASST. DIV. CHIEF	8-8-05
DIVISION CHIEF	8/8/05
OFFICE DIRECTOR	8/10

REVISIONS

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL DESIGN PLAN

FREDERICK ROAD (MD355) AND MONUMENT OFFICE PARK ENTRANCE

SCALE 1" = 20' DATE 7/25/05 CONTRACT NO. BW996M82

DESIGNED BY DPN/PHS
DRAWN BY DPN
CHECKED BY CT
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15035515.90
T.I.M.S. NO. 6940
TOD NO.

DRAWING NO. TS#4442 - OF

SHEET NO. 1 OF 2