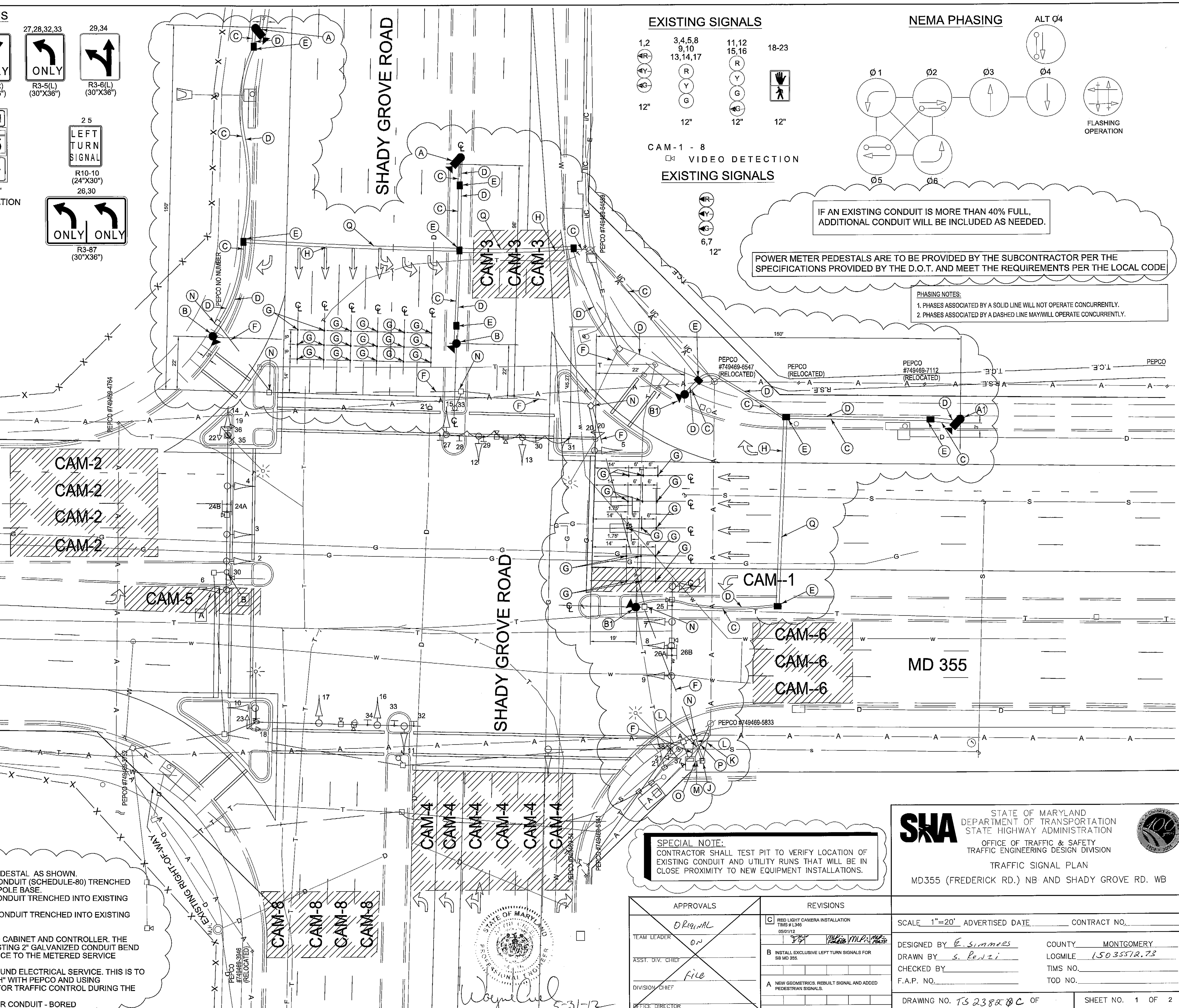


## EXISTING SIGNS

| Sign | Designation | Size / Notes |
|---|---|---|
| 24A,26A — Shady Grove RD 16400> | D3-2 | (VAR.X16") DUAL FACE |
| 24B,26B — Shady Grove RD <16400 | D3-2 | (VAR.X16") DUAL FACE |
| 31 — ONLY | R3-5(R) | (30"X36") |
| 27,28,32,33 — ONLY | R3-5(L) | (30"X36") |
| 29,34 | R3-6(L) | (30"X36") |
| 25 — LEFT TURN SIGNAL | R10-10 | (24"X30") |
| 26,30 — ONLY ONLY | R3-87 | (30"X36") |
| 36 — NORTH MARYLAND 355 | | 30"x51" |
| 37 — SOUTH MARYLAND 355 | | 30"x51" |
| 35 — NORTH MARYLAND 355 | | 48"x75" |
| 38 — SOUTH MARYLAND 355 | | 48"x75" |

FIBER OPTIC SIGN

MESSAGE 1 — ONLY — R3-5(R) (6AM-9AM)

30 MESSAGE 2 — R3-6(R) (4PM-7PM)

STATE HIGHWAY ADMINISTRATION (I-370 RIGHT-OF-WAY)

NOTE:
CONTRACTOR SHALL REFER TO MDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS SECTION 603.03.01 (B-1) FORMS, SECTION 603.03.01 (C) CONCRETE, AND SECTION 603.03.01 (E) JOINTS FOR SIDEWALK REPAIR

NOTE:
CONTRACTOR SHALL REFER TO SHA STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES STANDARD NUMBERS MD 655.01, MD 655.02, MD 655.11, MD 655.12, AND MD 655.13 FOR REPAIR OF SIDEWALK EXPANSION JOINTS, SIDEWALK PASSING ZONES, SIDEWALK RAMPS, AND ADA RAMPS.

**BW313M83**
MD 355 @ Shady Grove Road

## EXISTING SIGNALS

| 1,2 | 3,4,5,8 9,10 13,14,17 | 11,12 15,16 | 18-23 |
|---|---|---|---|
| R Y G (arrows) | R Y G | R Y G G(arrow) | Pedestrian |
| 12" | 12" | 12" | 12" |

CAM-1 - 8 VIDEO DETECTION

## EXISTING SIGNALS

6,7 — R Y G (arrows) — 12"

## NEMA PHASING

ALT Ø4, Ø1, Ø2, Ø3, Ø4, Ø5, Ø6, FLASHING OPERATION

IF AN EXISTING CONDUIT IS MORE THAN 40% FULL, ADDITIONAL CONDUIT WILL BE INCLUDED AS NEEDED.

POWER METER PEDESTALS ARE TO BE PROVIDED BY THE SUBCONTRACTOR PER THE SPECIFICATIONS PROVIDED BY THE D.O.T. AND MEET THE REQUIREMENTS PER THE LOCAL CODE

PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

THIS DRAWING IS ISSUED AND STAMPED FOR RED LIGHT CAMERA INSTALLATION IN THE CLOUDED AREA ONLY

NOTE:
CONTRACTOR SHALL INSTALL JET LINE IN NEW COMMS CONDUIT FOR PULLING OF FUTURE CABLE

STATE HIGHWAY ADMINISTRATION (I-370 RIGHT-OF-WAY)

### CONSTRUCTION DETAILS

A. INSTALL CAMERA UNIT, 10' POLE, AND FOUNDATION WITH (1) 3" PVC 90, (1) 2" PVC 90 AND (1) 1" PVC 90.
A1. INSTALL CAMERA UNIT, 14' POLE, AND FOUNDATION WITH (1) 3" PVC 90, (1) 2" PVC 90 AND (1) 1" PVC 90.
B. INSTALL FLASH UNITS, RECEIVERS, 14' POLE, AND FOUNDATION WITH (1) 3" PVC 90, (1) 2" PVC 90 AND (1) 1" PVC 90.
B1. INSTALL FLASH UNITS, RECEIVERS, 10' POLE, AND FOUNDATION WITH (1) 3" PVC 90, (1) 2" PVC 90 AND (1) 1" PVC 90.
C. INSTALL 2" PVC SCH 80 COMMS CONDUIT - TRENCHED.
D. INSTALL 2: PVC SCH 80 ELECTRICAL CONDUIT - TRENCHED.
E. INSTALL #5 PULLBOX.
F. USE EXISTING CONDUIT.
G. INSTALL SENSYS SENSOR CUBE.
H. INSTALL 2" PVC SCH. 80 COMMS CONDUIT - BORED
I. EXISTING HAND HOLE
J. INSTALL METERED SERVICE PEDESTAL AS SHOWN.
K. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHEDULE-80) TRENCHED WITH A 4" ELBOW AT THE WOOD POLE BASE.
L. INSTALL 2" PVC ELECTRICAL CONDUIT TRENCHED INTO EXISTING HANDHOLE.
M. INSTALL 2" PVC ELECTRICAL CONDUIT TRENCHED INTO EXISTING CABINET BASE.
N. USE EXISTING HANDHOLE.
O. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. THE CONTRACTOR IS TO LOCATE EXISTING 2" GALVANIZED CONDUIT BEND AND USE FOR ELECTRICAL SERVICE TO THE METERED SERVICE PEDESTAL.
P. REMOVE EXISTING UNDERGROUND ELECTRICAL SERVICE. THIS IS TO BE COMPLETED AS A "WORK WITH" WITH PEPCO AND USING MONTGOMERY COUNTY POLICE FOR TRAFFIC CONTROL DURING THE CHANGEOVER.
Q. INSTALL 2" PVC SCH. 80 POWER CONDUIT - BORED

SPECIAL NOTE:
CONTRACTOR SHALL TEST PIT TO VERIFY LOCATION OF EXISTING CONDUIT AND UTILITY RUNS THAT WILL BE IN CLOSE PROXIMITY TO NEW EQUIPMENT INSTALLATIONS.


ACS
A xerox Company
12410 MILESTONE CENTER DR. 4TH FLOOR
GERMANTOWN, MD 20876


STATE OF MARYLAND PROFESSIONAL ENGINEER
Wayne Cull 5-31-12

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

# TRAFFIC SIGNAL PLAN
MD355 (FREDERICK RD.) NB AND SHADY GROVE RD. WB

| APPROVALS | |
|---|---|
| ORIGINAL ON FILE | |
| TEAM LEADER | |
| ASST. DIV. CHIEF | |
| DIVISION CHIEF | |
| OFFICE DIRECTOR | |

| REVISIONS |
|---|
| C RED LIGHT CAMERA INSTALLATION TIMS # L346 05/01/12 |
| B INSTALL EXCLUSIVE LEFT TURN SIGNALS FOR SB MD 355. |
| A NEW GEOMETRICS. REBUILT SIGNAL AND ADDED PEDESTRIAN SIGNALS. |

SCALE 1"=20' ADVERTISED DATE ______ CONTRACT NO. ______

DESIGNED BY E. Simmers — COUNTY MONTGOMERY
DRAWN BY S. Renzi — LOGMILE 15035512.73
CHECKED BY ______ — TIMS NO. ______
F.A.P. NO. ______ — TOD NO. ______

DRAWING NO. TS 2382 ØC OF — SHEET NO. 1 OF 2

PLOTTED: $DATETIME$
FILE: $FILES$

BY: $USERNAME$

Border Rev. Date: March1,2007

DRILL HOLES

DRILL HOLES

DRILL HOLES

5/31/2012 10:37:36 AM