MD 26 IS ASSUMED TO RUN IN A EAST / WEST DIRECTION

## PROPOSED SIGNS

21,23 — LEFT TURN YIELD ON GREEN — R10-12 (42"X36")

25 — Liberty RD, EAST / MARYLAND 26 / WEST — M95-1(MOD.) (72"X40")

26,28 — NO TURN ON RED — R10-11b (24"X24")

22,24 — Old Court RD — D-3(2) (VAR.x16") DUAL FACE

27 — Liberty RD, WEST / MARYLAND 26 / EAST — M95-1(MOD.) (72"X40")

## PROPOSED SIGNALS

R10-4(1) (12"X 9") R10-4(1) (12"X 9") R10-4(1) (12"X 9") R10-4(1) (12"X 9")

13a,15a OPTION A SIGN — 14a,16a OPTION A SIGN — OLD COURT ROAD

17a,19a OPTION A SIGN — 18a,20a OPTION A SIGN — MD 26 LIBERTY ROAD

## PROPOSED SIGNALS

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

13-20 — 12"

PROPOSED VIDEO DETECTION CAMERA — a,b,c,d

## NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø3 ALT. ADVANCED PEDESTRIAN PHASE

Ø5 Ø6 Ø2 AND Ø6 ALT. Ø4 ALT. FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
RING II SHALL RUN SEQUENTIALLY.

### AERIAL CABLE DETAIL — DETAIL 'A'

| | |
|---|---|
| PRIMARY | 40'+ |
| SECONDARY | 38'+ |
| GUY WIRE | 36' |
| SECONDARY | 34' 7" |
| INTERCONNECT | 27' 6" |
| CABLE TV | 24' 2" |
| GUY WIRE | 21' 4" |
| | GRADE |

### AERIAL CABLE DETAIL — DETAIL 'B'

| | |
|---|---|
| SECONDARY | 38'+ |
| SECONDARY | 31' 7" |
| COMM. | 32' 7" |
| CABLE TV | 24'10" |
| | GRADE |

### AERIAL CABLE DETAIL — DETAIL 'C'

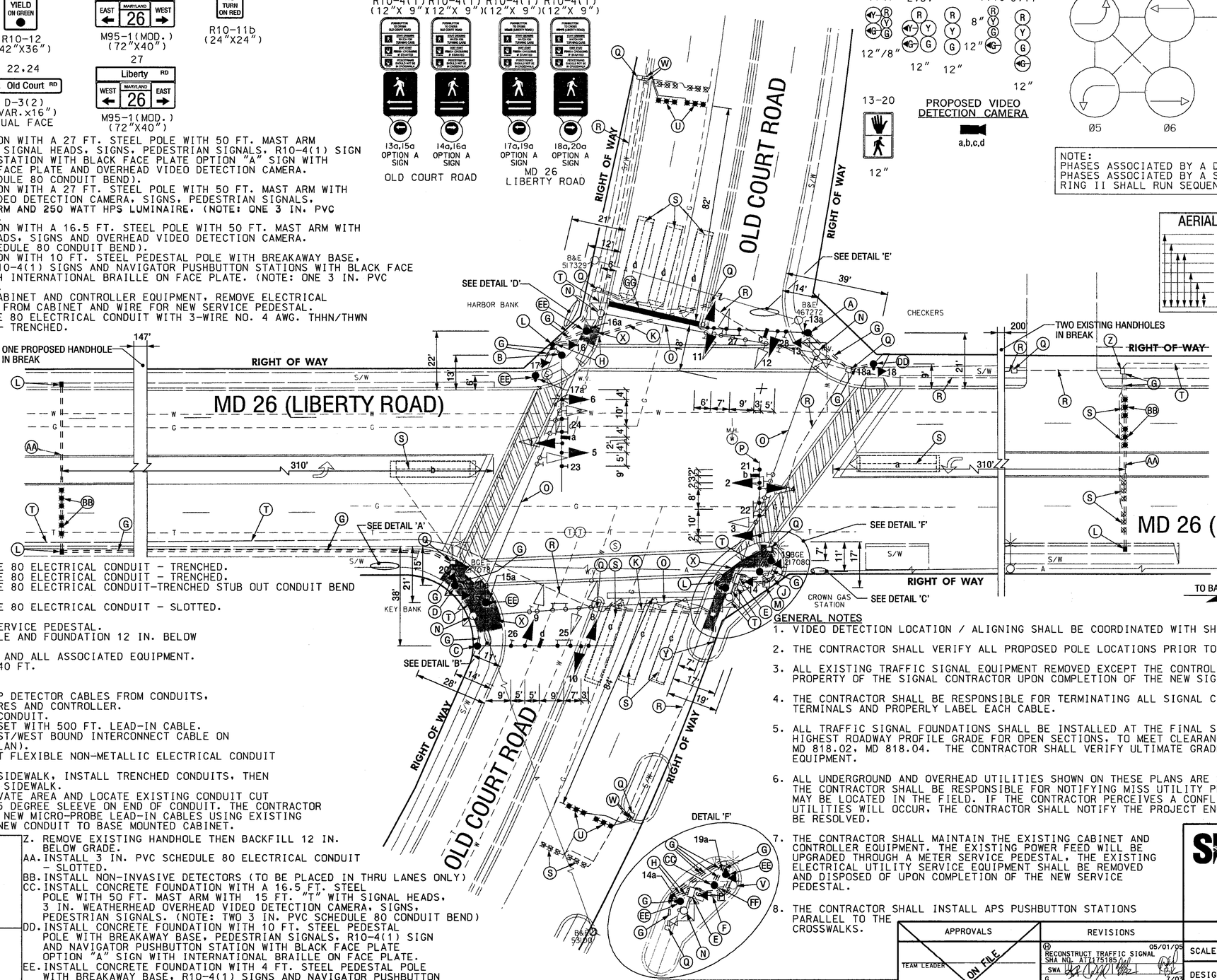
| | |
|---|---|
| PRIMARY | 45'+ |
| SECONDARY | 40'+ |
| SECONDARY | 37' 2" |
| INTERCONNECT | 25' 8" |
| CABLE TV | 24' 6" |
| | GRADE |

### AERIAL CABLE DETAIL — DETAIL 'D'

| | |
|---|---|
| SECONDARY | 36' |
| NEUTRAL | 31' |
| CABLE TV | 24' 9" |
| | GRADE |

### AERIAL CABLE DETAIL — DETAIL 'E'

| | |
|---|---|
| GUY WIRE | 33' |
| GUY WIRE | 26' |
| | GRADE |




## CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 50 FT. MAST ARM (CUT DOWN TO 40 FT.) WITH SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNALS, R10-4(1) SIGN AND NAVIGATOR PUSHBUTTON STATION WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 50 FT. MAST ARM WITH SIGNAL HEADS, OVERHEAD VIDEO DETECTION CAMERA, SIGNS, PEDESTRIAN SIGNALS, 15 FT. LIGHTING BRACKET ARM AND 250 WATT HPS LUMINAIRE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
C. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. STEEL POLE WITH 50 FT. MAST ARM WITH 15 FT. "T" WITH SIGNAL HEADS, SIGNS AND OVERHEAD VIDEO DETECTION CAMERA. ( NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
D. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNALS, (2) R10-4(1) SIGNS AND NAVIGATOR PUSHBUTTON STATIONS WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
E. USE EXISTING BASE MOUNT CABINET AND CONTROLLER EQUIPMENT, REMOVE ELECTRICAL UTILITY SERVICE EQUIPMENT FROM CABINET AND WIRE FOR NEW SERVICE PEDESTAL.
F. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT WITH 3-WIRE NO. 4 AWG. THHN/THWN ELECTRICAL SERVICE CABLE - TRENCHED.

## CONSTRUCTION DETAILS

G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
L. INSTALL HANDHOLE.
M. INSTALL 200 AMP METERED SERVICE PEDESTAL.
N. REMOVE EXISTING STRAIN POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
O. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
P. CUT PROPOSED MAST ARM TO 40 FT.
Q. USE EXISTING HANDHOLE.
R. USE EXISTING CONDUIT.
S. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
T. CAP AND ABANDON EXISTING CONDUIT.
U. INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN CABLE.
V. PULL BACK AND RE-ROUTE EAST/WEST BOUND INTERCONNECT CABLE ON MD 26 (SEE INTERCONNECT PLAN).
W. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR SLEEVE).
X. REMOVE EXISTING CONCRETE SIDEWALK, INSTALL TRENCHED CONDUITS, THEN INSTALL NEW 4 IN. CONCRETE SIDEWALK.
Y. THE CONTRACTOR IS TO EXCAVATE AREA AND LOCATE EXISTING CONDUIT CUT EXISTING PIPE AND PLACE 45 DEGREE SLEEVE ON END OF CONDUIT. THE CONTRACTOR IS TO REWIRE CONDUIT WITH NEW MICRO-PROBE LEAD-IN CABLES USING EXISTING CABLE TO PULL CABLE THRU NEW CONDUIT TO BASE MOUNTED CABINET.
Z. REMOVE EXISTING HANDHOLE THEN BACKFILL 12 IN. BELOW GRADE.
AA. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
BB. INSTALL NON-INVASIVE DETECTORS (TO BE PLACED IN THRU LANES ONLY)
CC. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. STEEL POLE WITH 50 FT. MAST ARM WITH 15 FT. "T" WITH SIGNAL HEADS, 3 IN. WEATHERHEAD OVERHEAD VIDEO DETECTION CAMERA, SIGNS, PEDESTRIAN SIGNALS. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
DD. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNALS, R10-4(1) SIGN AND NAVIGATOR PUSHBUTTON STATION WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE.
EE. INSTALL CONCRETE FOUNDATION WITH 4 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE. R10-4(1) SIGNS AND NAVIGATOR PUSHBUTTON STATIONS WITH BLACE FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
FF. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, STUB-OUT CONDUIT BEND AT BASE OF UTILITY POLE FOR PHONE DROP.
GG. INSTRALL HEAT APPLIED WHITE PERM. PREFORMED THEMO. PAVE. MARKINGS FOR STOPLINE.

## GENERAL NOTES

1. VIDEO DETECTION LOCATION / ALIGNING SHALL BE COORDINATED WITH SHA PROJECT ENGINEER
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED EXCEPT THE CONTROLLER UNIT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
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 SIGNALS EQUIPMENT.
6. 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 ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN THE TRAFFIC SIGNAL AND THE UTILITIES WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CABINET AND CONTROLLER EQUIPMENT. THE EXISTING POWER FEED WILL BE UPGRADED THROUGH A METER SERVICE PEDESTAL. THE EXISTING ELECTRICAL UTILITY SERVICE EQUIPMENT SHALL BE REMOVED AND DISPOSED OF UPON COMPLETION OF THE NEW SERVICE PEDESTAL.
8. THE CONTRACTOR SHALL INSTALL APS PUSHBUTTON STATIONS PARALLEL TO THE CROSSWALKS.

## GEOMETRIC LEGEND

EXISTING
PROPOSED
PROPOSED GEOMETRIC WORK ZONE

## UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
SAN — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
FO — FIBER-OPTIC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APPROVALS — ORIGINAL ON FILE
TEAM LEADER
ASST. DIV.
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS
G 05/01/05 RECONSTRUCT TRAFFIC SIGNAL SHA NO. AT175185
SWA 7/03 INSTALL ADVANCED PED. ACROSS MD 26
JBJ DAD DAZ BK
E 4/11/03 INSTALL NEAR SIDE SIGNAL HEADS SHA NO. XX1065385
GCP

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

# MD 26 (LIBERTY ROAD) AT OLD COURT ROAD

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE JUNE.19.1967 CONTRACT NO. N/A

DESIGNED BY T. G. WHITE — COUNTY BALTIMORE
DRAWN BY T. G. WHITE — LOGMILE 03002606.29
CHECKED BY W. M. — T.I.M.S. NO. F-623
F.A.P. NO. N/A — TOD NO. 3333H

DRAWING NO. TS-839H — SHEET NO. 1 OF 2

PLOTTED: FRIDAY, APRIL 29, 2005 AT 11:46 AM
FILE: R:\2000\23\TASK 111\DGN\PSG-P002-B-M26.DGN

BYLYEH