DRILL HOLES

BORDER REV. DATE: June 1, 2004

MD 157 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

17,18,20,21, 23,24,26,27 — ONLY — R3-5(L) (30"x36")

PROPOSED SIGNS

19a — Wise AVE
19b — Wise AVE
D-3(1)- (DUAL FACE) (Var. x 16")

22a — Holabird AVE
22b — Holabird AVE
D-3(1)-(DUAL FACE) (Var. x 16")

33,34 35,36 — W11(A)-2 (30"X30") — W16-7p (24"X12")

25a/25b 32a/32b — Merritt BLVD — D-3(1) DUAL FACE (VAR.X16")

28 — NORTH MARYLAND 157 — M3-1 (24"x12") — M1-5 (30"x24") — M6-1 (21"x15") — SHIELD ASSEMBLY (30"x51")

29 — SOUTH MARYLAND 157 — M3-3 (30"x15") — M1-5 (48"x36") — M6-1 (30"x24") — SHIELD ASSEMBLY (48"x75")

30 — SOUTH MARYLAND 157 — M3-3 (24"x12") — M1-5 (30"x24") — M6-1 (21"x15") — SHIELD ASSEMBLY (30"x51")

31 — NORTH MARYLAND 157 — M3-1 (30"x15") — M1-5 (48"x36") — M6-1 (30"x24") — SHIELD ASSEMBLY (48"x75")

41 — Holabird Avenue / Wise Avenue — NEXT SIGNAL — D3-2(1) (VAR.X 36")

42 — Wise Avenue / Holabird Avenue — NEXT SIGNAL — D3-2(1) (VAR.X 36")

EXISITNG SIGN TO BE REMOVED

42 — Holabird Ave / Wise Ave — NEXT SIGNAL

41 — Holabird Ave / Wise Ave

PROPOSED VIDEO DETECTION CAMERAS

a-h — 'a-d' — a-h

PROPOSED SIGNALS

1,2,3,6,7 8,11,12,13 16,17,18 — R Y G — 12"

4,5,9,10 14,15,19,20 — R Y G — 12"

EXISTING SIGNALS

R Y G — 12"

R Y G — 12"

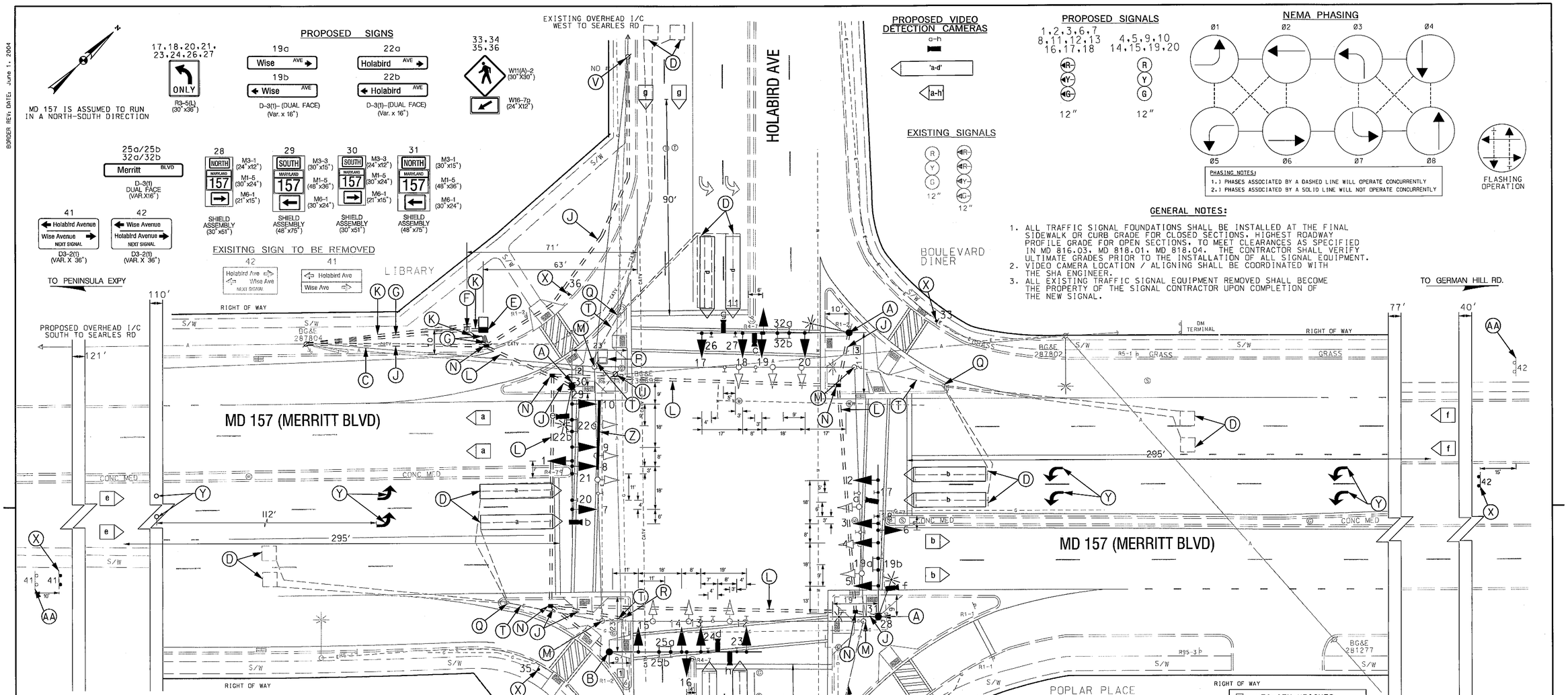
NEMA PHASING

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

FLASHING OPERATION

GENERAL NOTES:

1. 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 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.



CONSTRUCTION DETAILS

A. FURNISH AND INSTALL 27' MAST ARM POLE WITH 70' (CUT TO 62') MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, 15' LIGHTING ARM AND 250W-HPS LUMINAIRE. (NOTE: INSTALL 1-3"(SCHEDULE 80) 90 DEGREE CONDUIT BEND)
B. FURNISH AND INSTALL 16.5' MAST ARM POLE WITH SPECIAL "T" DIMENSION 70' (CUT TO 62') MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS.(NOTE: INSTALL 1-3"(SCHEDULE 80) 90 DEGREE CONDUIT BEND)
C. REMOVE EXISTING AERIAL INTERCONNECT WIRING
D. ABANDON EXISTING LOOP DETECTORS AND REMOVE ALL ASSOCIATED WIRING.
E. INSTALL SIZE 6 BASE MOUNTED CABINET AND CONTROLLER AND ALL THE NECESSARY EQUIPMENT (NOTE: INSTALL 2-2"AND 2-4" (SCHEDULE 80), 90 DEGREES CONDUIT BENDS)
F. INSTALL EMBEDDED METERED SERVICE PEDESTAL.
G. INSTALL 4" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT-TRENCHED.
J. INSTALL 3" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT-TRENCHED. REPLACE CONCRETE SIDEWALK WHERE NECESSARY.
K. INSTALL 2" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT-TRENCHED.
L. INSTALL 4" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT-BORED.
M. REMOVE EXISTING SIGNAL POLE AND ALL EXISTING EQUIPMENT.
N. INSTALL HANDHOLE.
P. REMOVE EXISTING CABINET.
Q. REMOVE EXISTING HANDHOLE.
R. USE EXISTING HANDHOLE. PULL BACK EXISTING INTERCONNECT AND REROUTE UNDERGROUND
S. USE EXISTING CONDUIT.
T. CAP AND ABANDON EXISTING CONDUIT. REMOVE ALL UNUSED WIRES.
U. REMOVE EXISTING SERVICE FEED
V. PULL BACK EXISTING OVERHEAD INTERCONNECT WIRING AND REROUTE UNDERGROUND
X. INSTALL GROUND MOUNTED SIGN
Y. INSTALL PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
Z. REMOVE PAVEMENT MARKINGS. INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)
AA. REMOVE GROUND MOUNTED SIGN

GENERAL NOTES CONTINUED:

4. THE CONTRACTOR SHALL REMOVE SIDEWALK/CONCRETE, INSTALL SIGNAL EQUIPMENT AND TRENCHED CONDUIT AND REPLACE SIDEWALK/CONCRETE FOR SIGNAL EQUIPMENT IN SIDEWALK/CONCRETE
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. ALL CONDUIT ENDING AT A UTILITY POLE SHALL BE STUBBED OUT ONE (1) FOOT ABOVE GROUND.

1 UTILITY HEIGHTS
COMMUNICATION = 20'-8"
COMMUNICATION = 26'-7"
SECONDARY = 32'

2 UTILITY HEIGHTS
COMMUNICATION = 21'-10"
SECONDARY = 33'
SECONDARY = >35'
PRIMARY = >35'

3 UTILITY HEIGHTS
COMMUNICATION = 20'
SECONDARY = 27'
SECONDARY = 28'
PRIMARY = >35'

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES
AERIAL CABLE — A —
ELECTRIC — E —
TELEPHONE — T —
GAS — G —
SEWER — S —
WATER — W —
CABLE TV — TV —

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PARSONS BRINCKERHOFF
100 South Charles Street
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APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE FROM BALTIMORE CO.

REVISIONS
A — RECONSTRUCT SIGNAL — TIMS# J639
CONTRACT # BA1186168 — DATE 6/1/09
KMP — 10/10/09

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

MD 157 (MERRITT BLVD)
AND HOLABIRD AVE/WISE AVE
DUNDALK, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 10-13-08 CONTRACT NO.
DESIGNED BY BALTIMORE COUNTY COUNTY BALTIMORE
DRAWN BY W.N. LOGMILE 03015703.49
CHECKED BY R.R.Z. TIMS NO. J639
F.A.P. NO. TOD NO.
TS NO. 4686A DRAWING SP-07 OF 39 SHEET NO. 1 OF 2

PLOTTED: $DATETIME$
FILE: T:\173089A.DISTRICT6TRAFFIC\TRF\TASK 4_TEDD STIMULUS\PLANS\MD157_WISE-HOLABIRD_GP.DGN