DRILL HOLES

BORDER REV: DATE: June 1, 2004

EXISTING SIGNS

20 — TO MILESTATE 95

21,25 — 22,26

23,27 — Juniata ST — D3-2 (DUAL-FACED) VARIABLE X 16"

24 — AHEAD / FINES DOUBLE

32 — RIGHT LANE MUST TURN RIGHT — R3-7R 30" x 30"

PUSH BUTTON TO CROSS REVOLUTION STREET — START CROSSING WATCH FOR TURNING CARS — DON'T START FINISH CROSSING IF STARTED — PEDESTRIANS SHOULD NOT BE IN CROSSWALK — R10-4C 9" x 12"

MD 7A IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION

1 PROPOSED SIGNS

19 — AHEAD / FINES DOUBLE — S1-1 36" x 36"; W16-Pp 12"x30"; S4-4(l) 15"x30"

28 — EAST, MARYLAND 7 — M3-2 30"x 15"; M1-5 24"x 24"; M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51"

1 29 — WEST, MARYLAND 7 — M3-4 ~~30"x 15"~~ 24"x 12"; M1-5 ~~36"x 36"~~ 24"x 24"; M6-1 ~~30"x 24"~~ 21"x 15" — ASSOCIATED SHIELD ASSEMBLY ~~36" x 75"~~ 24" x 51"

31 — WEST, MARYLAND 7 — M3-4 24"x 12"; M1-5 24"x 24"; M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51" (OVER TOP OF SIGN #32)

1 34 — EAST, MARYLAND 7 — M3-2 ~~30"x 15"~~ 24"x 12"; M1-5 ~~36"x 36"~~ 24"x 24"; M6-1 ~~30"x 24"~~ 21"x 15" — ASSOCIATED SHIELD ASSEMBLY ~~36" x 75"~~ 24" x 51"

30,33 — Revolution ST — D3-2 (DUAL-FACED) VARIABLE X 16"

PROPOSED SIGNALS

1,4 — R 8", Y 8", G 8", 12"

2,5 — R, Y, G — 12"

3,6-10 — R, Y, G — 12"

11-18 — 16" PEDESTRIAN COUNTDOWN SIGNAL HEAD "LED" TYPE

NOTE: ALL PROPOSED SIGNALS ARE TO BE LED AND BLACK-FACED

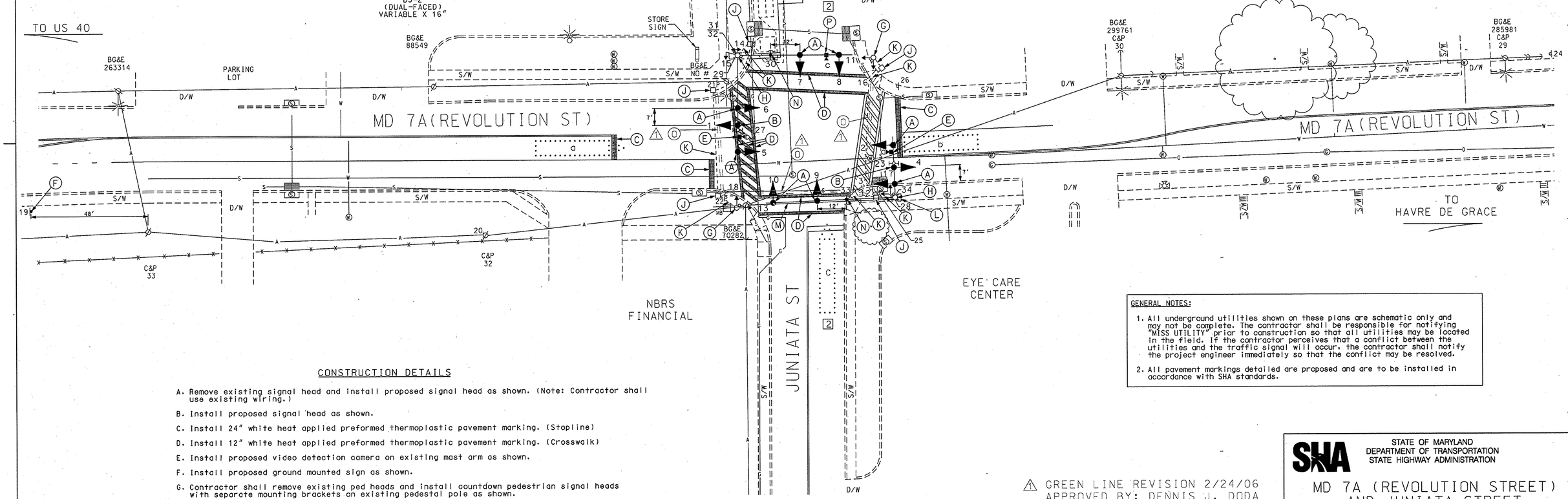
2 — VIDEO DETECTION CAMERA (a,b,c) (Exact location and orientation of camera to be determined with Project Engineer's approval).

NEMA PHASING

Ø1, Ø2, Ø4, Ø4 & Ø8 ALT, Ø5, Ø6, Ø8

FLASHING OPERATION

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



GENERAL NOTES:

1. All underground 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 that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.

CONSTRUCTION DETAILS

A. Remove existing signal head and install proposed signal head as shown. (Note: Contractor shall use existing wiring.)
B. Install proposed signal head as shown.
C. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline)
D. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)
E. Install proposed video detection camera on existing mast arm as shown.
F. Install proposed ground mounted sign as shown.
G. Contractor shall remove existing ped heads and install countdown pedestrian signal heads with separate mounting brackets on existing pedestal pole as shown.
H. Contractor shall remove existing ped heads, install associated shield asseembly and countdown pedestrian signal heads with separate mounting brackets on signal pole as shown.
J. Use existing handhole.
K. Use existing conduit.
L. Use existing cabinet and controller.
M. Maintain existing overhead service by BGE
N. Install overhead sign on existing mast arm as shown.
1 O. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted). (Note: Route new Countdown Pedestrian cable, video camera cable and cable for signal # 1 through this conduit).
2 P. Install proposed video detection camera on existing mast arm as shown.

GEOMETRIC LEGEND
PROPOSED
EXISTING

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

2 REDLINE REVISION NO.2
6/6/2006
REPLACE LOOP FOR NB JUNIATA STREET WITH VIDEO DETECTION CAMERA.

1 REDLINE REVISION NO.1
1/27/2006
MODIFY SHIELD ASSEMBLY SIGN SIZE.

1 GREEN LINE REVISION 2/24/06
APPROVED BY: DENNIS J. DODA (3/10/06)

REVISION "6"
STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637
4946.dgn 06-58

APPROVALS: TEAM LEADER / ASST. DIV. CHIEF / DIVISION CHIEF / OFFICE DIRECTOR — ORIGINAL ON FILE

REVISIONS
6 SHA NO.: AT7825185 10-07-05 ADD E/P LEFT TURN PHASING FOR MD 7A — JWA MK 10-11-05 — DJD WH TH 1½
A 10-5-93 RECONSTRUCT SIGNAL DUE TO GEOMETRIC CHANGES SHA NO.: H-941-201-483 — RRZ ERS DD TH

PLOTTED: @DATETIME@
FILE: $FILE@

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 7A (REVOLUTION STREET) AND JUNIATA STREET

HAVRE DE GRACE, MARYLAND

SCALE 1"= 20' DATE 12-1-73 CONTRACT NO.
DESIGNED BY S.H.A. COUNTY HARFORD
DRAWN BY S.H.A. LOGMILE 12A00701.16
CHECKED BY S.H.A. TIMS NO. H193
F.A.P. NO. TOD NO.

TS NO. 1079 B | DRAWING NO. | OF | SHEET NO. 1 OF 2