NOTE: MD 450 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

EXISTING SIGNS

15 — R3-5L ONLY, 30" x 36"

17 — NO TURNS ON RED

18 — R3-5R ONLY, 30" x 36"

PROPOSED SIGNS

R10-4C, 9" x 12" — START CROSSING WHEN FOR TURNING CARS / DON'T START FINISH CROSSING IF STARTED / PUSHBUTTONS ON OPPOSITE SIDE OF CROSSWALK

R10-4C, 9" x 12" — PUSH BUTTON TO CROSS KING GEORGE ST. / START CROSSING WHEN FOR TURNING CARS / DON'T START FINISH CROSSING IF STARTED / PUSHBUTTONS ON OPPOSITE SIDE OF CROSSWALK

14 — R1-2 YIELD, 36" x 36" x 36"

16 — R10-12 LEFT TURN YIELD ON GREEN, 36"x 42"

EXISTING SIGNALS

1,2 — R Y G, 12"

6 — R Y G, 12"

7 — R Y G, 12"

10 — 12"

PROPOSED SIGNALS

3,4 — R Y G, 12"

5,8,9 — R Y G, 12"

11-13 — 12"

NEMA PHASING

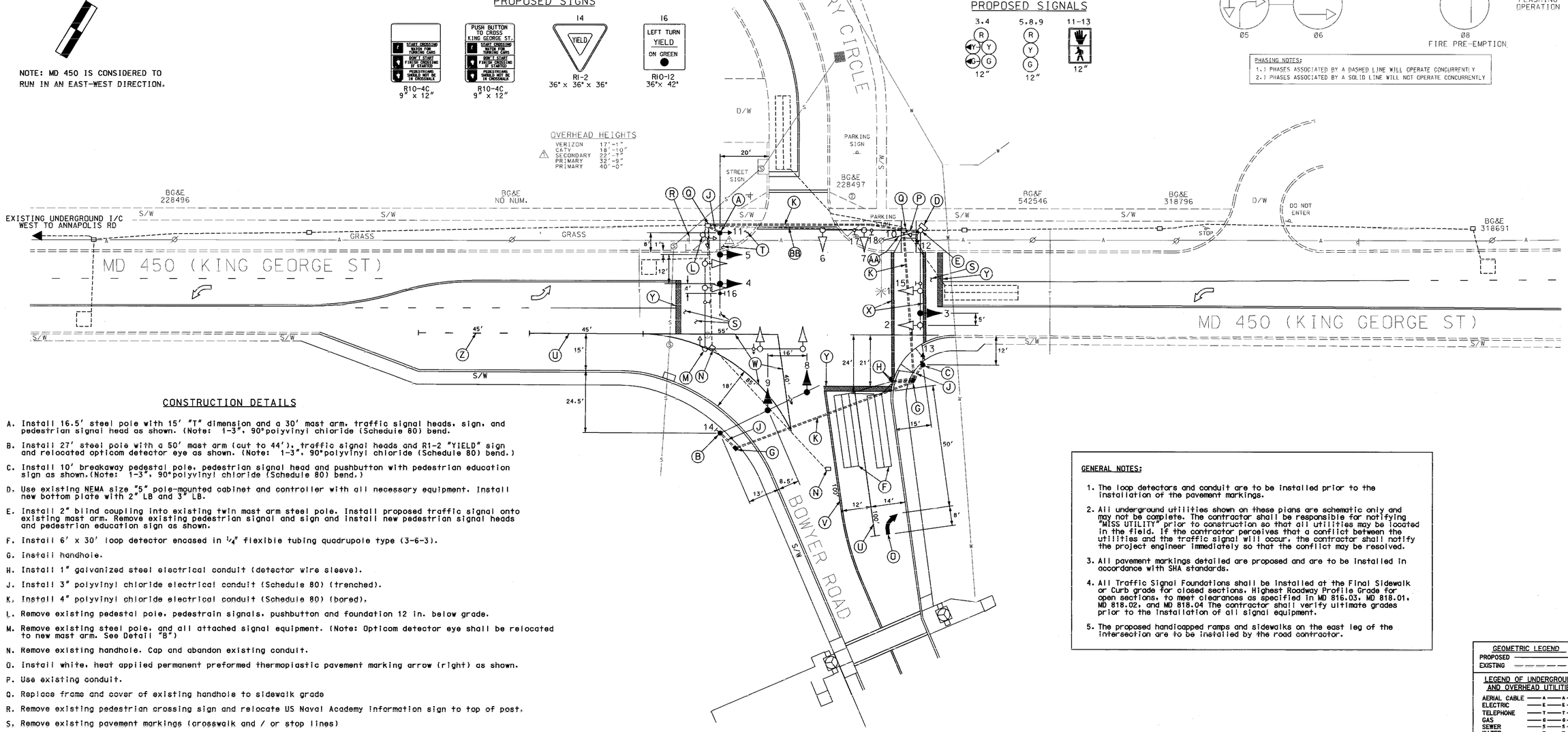
Ø2, Ø3 (PED. OVERLAP), Ø4, Ø5, Ø6, Ø8 FIRE PRE-EMPTION

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

OVERHEAD HEIGHTS

VERIZON	17'-1"
CATV	18'-10"
SECONDARY	22'-7"
PRIMARY	32'-9"
PRIMARY	40'-0"



CONSTRUCTION DETAILS

A. Install 16.5' steel pole with 15' "T" dimension and a 30' mast arm, traffic signal heads, sign, and pedestrian signal head as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.

B. Install 27' steel pole with a 50' mast arm (cut to 44'), traffic signal heads and R1-2 "YIELD" sign and relocated opticom detector eye as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 10' breakaway pedestal pole, pedestrian signal head and pushbutton with pedestrian education sign as shown.(Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Use existing NEMA size "5" pole-mounted cabinet and controller with all necessary equipment. Install new bottom plate with 2" LB and 3" LB.

E. Install 2" blind coupling into existing twin mast arm steel pole. Install proposed traffic signal onto existing mast arm. Remove existing pedestrian signal and sign and install new pedestrian signal heads and pedestrian education sign as shown.

F. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).

G. Install handhole.

H. Install 1" galvanized steel electrical conduit (detector wire sleeve).

J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

L. Remove existing pedestal pole, pedestrain signals, pushbutton and foundation 12 in. below grade.

M. Remove existing steel pole, and all attached signal equipment. (Note: Opticom detector eye shall be relocated to new mast arm. See Detail "B")

N. Remove existing handhole. Cap and abandon existing conduit.

O. Install white, heat applied permanent preformed thermoplastic pavement marking arrow (right) as shown.

P. Use existing conduit.

Q. Replace frame and cover of existing handhole to sidewalk grade

R. Remove existing pedestrian crossing sign and relocate US Naval Academy information sign to top of post.

S. Remove existing pavement markings (crosswalk and / or stop lines)

T. Remove existing damaged sidewalk, curb and gutter and replace after the installation of the signal equipment. (Note: Depressed curb to be replaced with standard curb.)

U. Install 5" white, heat applied permanent preformed thermoplastic pavement marking.

V. Install 5" double yellow, heat applied permanent preformed thermoplastic pavement marking.

W. Install 10" white, heat applied permanent preformed thermoplastic pavement marking.

X. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk)

Y. Install 24" white, heat applied permanent preformed thermoplastic pavement marking. (stopline)

Z. Install 5" white, heat applied permanent preformed thermoplastic pavement marking. (3-9-3 puppy tracks).

AA. Existing overhead electrical service to be maintained by BGE.

BB. Maintain existing 3" galvanized conduit.

GENERAL NOTES:

1. The loop detectors and conduit are to be installed prior to the installation of the pavement markings.
2. 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.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.
4. 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, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.
5. The proposed handicapped ramps and sidewalks on the east leg of the intersection are to be installed by the road contractor.

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 —

SHA#: PW5544N83

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REVISIONS		
E	MODIFY SIGNAL DUE TO INSTALLATION OF E.B. MD 450 R/L LANE SHA NO.: PW 3364N82	3/17/04 RRZ
D	INSTALL QUEUING DETECTORS & INTERCONNECT CABLE	7/97
C	INSTALL OPTICOM FOR PRE-EMPTION AND DELETE PUSHBUTTON	4/21/92
B	REBUILT PROJECT COMBINED W/ MD 436 AW-362-301-377	3/84

APPROVALS

ORIGINAL ON FILE

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 AND U.S.N.A. GATE 8 (BOWYER ROAD) / PERRY CIRCLE

DRAWN BY:	J.GORDON	F.A.P. NO.		TS NO.	SHEET NO.
CHECKED BY:	3/64	S.H.A. NO.	AA 928X-000-585	443 E	1 OF 2
SCALE:	1"= 20'	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO.	
DATE:	4/9/74	LOG MILE:	02045013.55	G 199	

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