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PROPOSED SIGNS

MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

R10-4(1) 9"X12" — 16,17
R3-5L 30"X 36" — 14
R3-6(LR) 30"X 36" — 15
24"X51" ASSOCIATED SHIELD ASSEMBLY — 13
36"X75" ASSOCIATED SHIELD ASSEMBLY — 19

TO BE INSTALLED WITH PUSHBUTTON

PROPOSED SIGNALS

12" — 1,2,3,4, 5,6,7,8,9
12" — 10,11,12,13

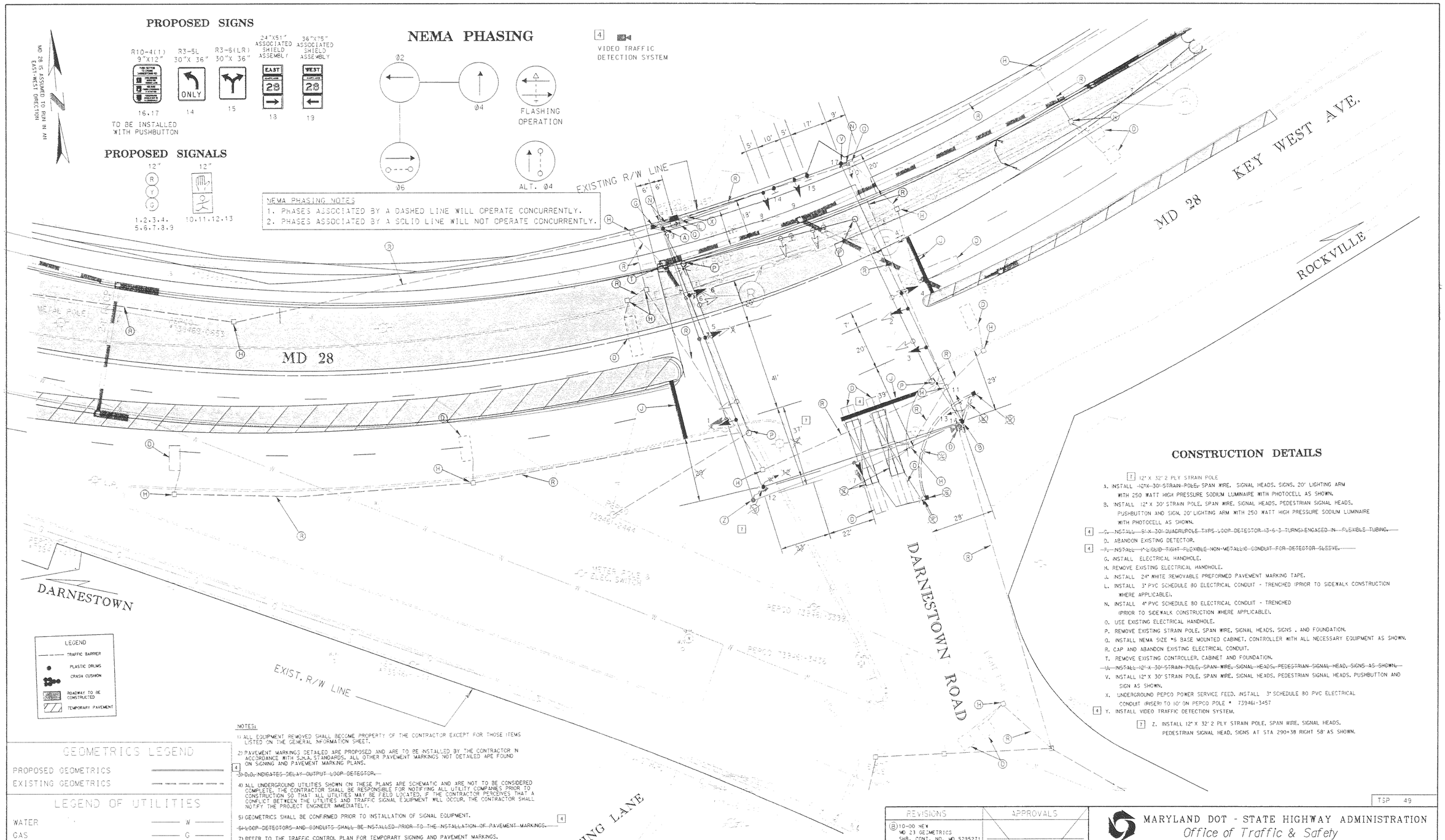
NEMA PHASING

Ø2, Ø4, Ø6, ALT. Ø4

FLASHING OPERATION

[4] VIDEO TRAFFIC DETECTION SYSTEM

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



CONSTRUCTION DETAILS

[7] 12" X 32' 2 PLY STRAIN POLE
A. INSTALL ~~12"X 30' STRAIN POLE,~~ SPAN WIRE, SIGNAL HEADS, SIGNS, 20' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOCELL AS SHOWN.
B. INSTALL 12" X 30' STRAIN POLE, SPAN WIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGN, 20' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOCELL AS SHOWN.
[4] ~~C. INSTALL 8"X 30" QUADRUPOLE TYPE LOOP DETECTOR 12-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.~~
D. ABANDON EXISTING DETECTOR.
[4] ~~E. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.~~
G. INSTALL ELECTRICAL HANDHOLE.
H. REMOVE EXISTING ELECTRICAL HANDHOLE.
J. INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE.
L. INSTALL 3" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (PRIOR TO SIDEWALK CONSTRUCTION WHERE APPLICABLE).
N. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (PRIOR TO SIDEWALK CONSTRUCTION WHERE APPLICABLE).
O. USE EXISTING ELECTRICAL HANDHOLE.
P. REMOVE EXISTING STRAIN POLE, SPAN WIRE, SIGNAL HEADS, SIGNS, AND FOUNDATION.
Q. INSTALL NEMA SIZE #6 BASE MOUNTED CABINET, CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN.
R. CAP AND ABANDON EXISTING ELECTRICAL CONDUIT.
T. REMOVE EXISTING CONTROLLER, CABINET AND FOUNDATION.
~~U. INSTALL 12" X 30' STRAIN POLE, SPAN WIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, SIGNS AS SHOWN.~~
V. INSTALL 12" X 30' STRAIN POLE, SPAN WIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGN AS SHOWN.
X. UNDERGROUND PEPCO POWER SERVICE FEED. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT (RISER) TO 10' ON PEPCO POLE # 739461-3457
[4] Y. INSTALL VIDEO TRAFFIC DETECTION SYSTEM.
[7] Z. INSTALL 12" X 32' 2 PLY STRAIN POLE, SPAN WIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, SIGNS AT STA 290+38 RIGHT 58' AS SHOWN.

LEGEND
- TRAFFIC BARRIER
- PLASTIC DRUMS
- CRASH CUSHION
- ROADWAY TO BE CONSTRUCTED
- TEMPORARY PAVEMENT

GEOMETRICS LEGEND

PROPOSED GEOMETRICS
EXISTING GEOMETRICS

LEGEND OF UTILITIES

WATER	W
GAS	G
UNDERGROUND TELEPHONE	T
SANITARY SEWER	S
UNDERGROUND ELECTRIC	E
AERIAL	A
STORM DRAIN	SD
SEWAGE FORCE MAIN	FM
CABLE TV	TV

NOTES:
1) ALL EQUIPMENT REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR EXCEPT FOR THOSE ITEMS LISTED ON THE GENERAL INFORMATION SHEET.
2) PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS. ALL OTHER PAVEMENT MARKINGS NOT DETAILED ARE FOUND ON SIGNING AND PAVEMENT MARKING PLANS.
[4] ~~3) D.O. INDICATES DELAY OUTPUT LOOP DETECTOR.~~
4) ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE FIELD LOCATED. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.
5) GEOMETRICS SHALL BE CONFIRMED PRIOR TO INSTALLATION OF SIGNAL EQUIPMENT.
[4] ~~6) LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.~~
7) REFER TO THE TRAFFIC CONTROL PLAN FOR TEMPORARY SIGNING AND PAVEMENT MARKINGS.
8) UNLESS OTHERWISE NOTED, ALL EXISTING SIGNAL EQUIPMENT SHALL BE MAINTAINED.
9) REFER TO ULTIMATE GENERAL INFORMATION SHEET FOR PROJECT DESCRIPTION. MAINTAIN EXISTING PHASING UNLESS OTHERWISE SHOWN ON GENERAL INFORMATION PLAN.
10) ALL DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PREFORMED BY MONTGOMERY COUNTY DIVISION OF TRAFFIC AND PARKING SERVICES PERSONNEL.

TSP 49

REVISIONS	APPROVALS
(B) 10-00 NEW MD 23 GEOMETRICS SHB. CONT. NO. MD 5235271	PROJECT MANAGER, SIGNAL DESIGN DIVISION: ORIGINAL
[A] ADDENDUM NO. 3 REPLACEMENT SHEET 12/19/2000	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: ON
[4] REDLINE NO. 4 REPLACEMENT SHEET 8/23/2001	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
[7] REDLINE NO. 7 REPLACEMENT SHEET 2/4/2003	DIRECTOR, TRAFFIC & SAFETY
Q.X.	

REVISION 'A'
KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

KCI TECHNOLOGIES

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
PHASE I CONSTRUCTION
MD 28 (KEY WEST AVE) AND DARNESTOWN RD

DRAWN BY: W.W.C./T.E.L.	F.A.P. NO.		TS NO. 2640A-PX-1	SHEET NO.
CHECKED BY: JOHN C. RICE	S.H.A. NO.			
SCALE: 1" = 20'	COUNTY: MONTGOMERY		T.I.M.S. NO. D107	337A OF 434
DATE: 6-13-85	LOG MILE: 15002878.21			

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