MD 192 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION

EXISTING SIGNS

R3-5(R) (30"x36") — 15

D3-2 (DUAL FACE) (16"x Var.)
METROPOLITAN AVE. 10500 — METROPOLITAN AVE. 10500
16A — 16

D3-2 (DUAL FACE) (16"x Var.)
CONCORD ST. 10600 — CONCORD ST. 10600
17A — 17

R3-5(L) (30"x36") — 18

R3-6 MODIFIED (30"x36") — 19

R10-11b (24"x24") NO TURN ON RED — 20

(30"x51") EAST MARYLAND 192 — 21
(30"x51") EAST MARYLAND 192 — 22
(30"x51") WEST MARYLAND 192 — 23
(30"x51") WEST MARYLAND 192 — 24

R10-3c (9"x 12") — 25,26

R10-3c (9"x 12") — 27,28

EXISTING SIGNALS

12" R Y G — 1,3,4
12" R Y G — 6-8
12" R Y G — 5
12" R Y G — 2
12" — 9-14

NEMA PHASING

Ø1 Ø2 Ø3 Ø4

Ø1 ALT Ø3 ALT FLASHING OPERATION

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

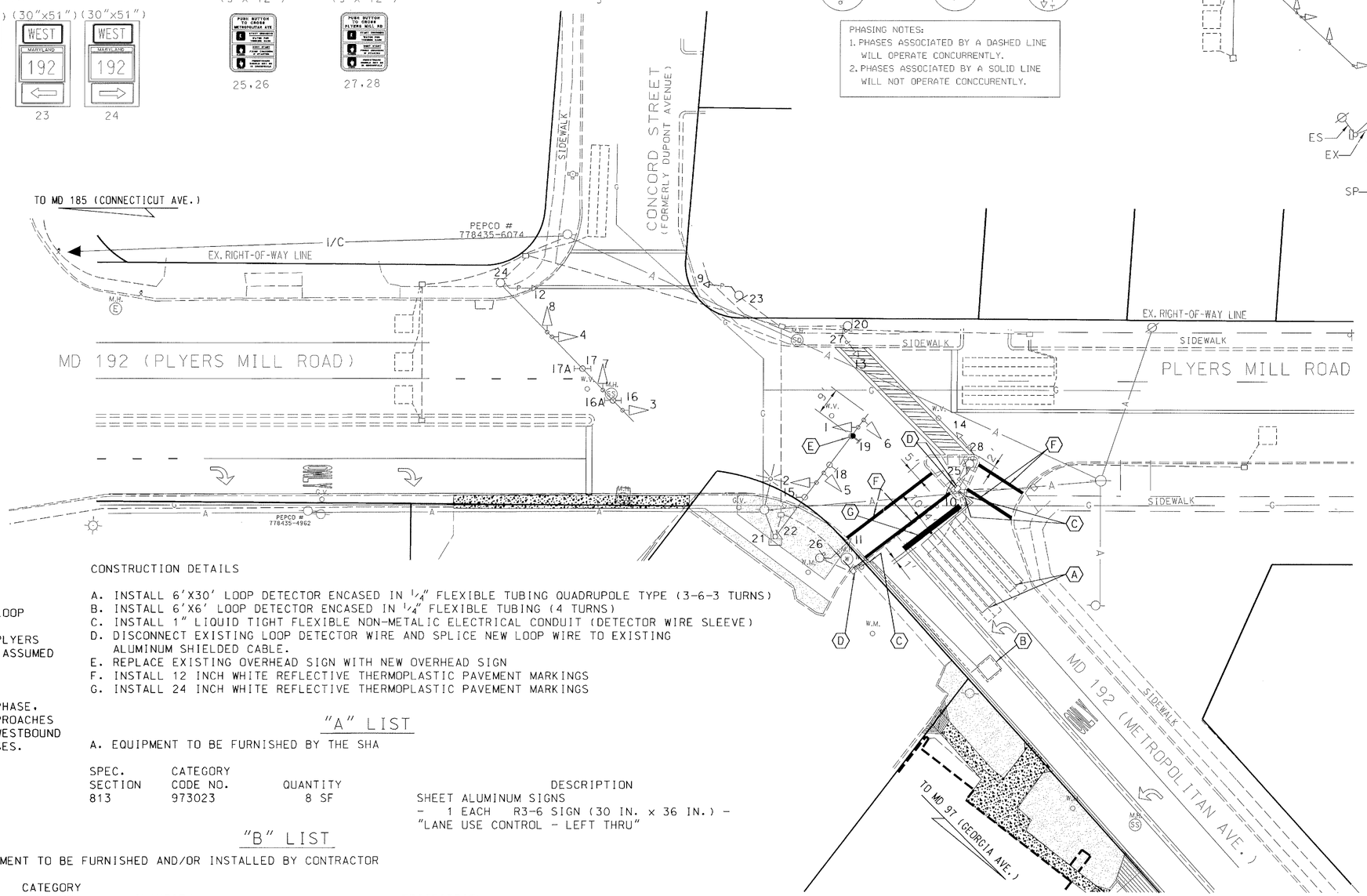
WIRING DIAGRAM

ES EX EX SP SP LW

PROPOSED SIGN

19

R3-6 (30" x 36")



WIRING KEY

LW - LOOP WIRE (NO. 14 A.W.G.)

ES - EXISTING SERVICE

SP - SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE

EX - EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE

GENERAL NOTES

1. THE LOOP DETECTORS MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF LOOP DETECTORS AND PAVEMENT MARKINGS AT THE INTERSECTION OF MD 192 AND CONCORD DRIVE/PLYERS MILL ROAD IN MONTGOMERY COUNTY. MD 192 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION:
THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH MD 192 APPROACHES RUNNING CONCURRENTLY. CONCORD STREET AND WESTBOUND PLYERS MILL ROAD OPERATE IN EXCLUSIVE PHASES.

CONTROLLER REQUIREMENTS: NO CHANGES

PHASING CHART: NO CHANGES

CONSTRUCTION DETAILS

A. INSTALL 6'X30' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING QUADRUPOLE TYPE (3-6-3 TURNS)
B. INSTALL 6'X6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (4 TURNS)
C. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
D. DISCONNECT EXISTING LOOP DETECTOR WIRE AND SPLICE NEW LOOP WIRE TO EXISTING ALUMINUM SHIELDED CABLE.
E. REPLACE EXISTING OVERHEAD SIGN WITH NEW OVERHEAD SIGN
F. INSTALL 12 INCH WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
G. INSTALL 24 INCH WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS

"A" LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
813	973023	8 SF	SHEET ALUMINUM SIGNS - 1 EACH R3-6 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT THRU"

"B" LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
-	585414	120 LF	12 INCH WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
-	585416	24 LF	24 INCH WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
813	801706	8 SF	REMOVE SIGNS FROM EXISTING OVERHEAD STRUCTURE
805	805160	14 LF	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
813	813015	8 SF	INSTALL OVERHEAD SIGN
810	862101	1050 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
815	862102	325 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS	APPROVALS
A RECUT LOOPS DUE TO PAVEMENT RESURFACING SHA NO. MO7775184 3/7/2000	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL PLAN
MD 192 @ CONCORD STREET/PLYERS MILL ROAD

DRAWN BY: SMH	F.A.P. NO. N/A	TS NO. 3571A	SHEET NO.
CHECKED BY: DLA	S.H.A. NO. MO7775184		
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO. D564	1 OF 1
DATE: MARCH, 2000	LOG MILE: 15019200.29		

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