PROJECT DESCRIPTION

GENERAL

This project involves the replacement of the existing "T" type mast arm controlling eastbound N. Division Street at the intersection of MD 378 and N Division Street. MD 378 runs in a north-south direction.

INTERSECTION OPERATION

1. The intersection will continue operating in a NEMA two-phase, semi-actuated mode. The northbound MD 378 approach shall continue to run alone. A pedestrain phase with pushbutton actuation remains to cross the south leg of MD 378. The N. Division Street approaches shall continue to operate concurrently. The pedestrain phase crossing the west leg of N. Division Street is on recall.

2. The existing base mounted cabinet shall remain.

SPECIAL NOTES

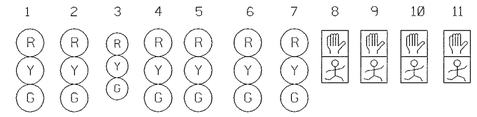
1. All field wiring shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 781-7650 seventy-two hours in advance of intended work.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

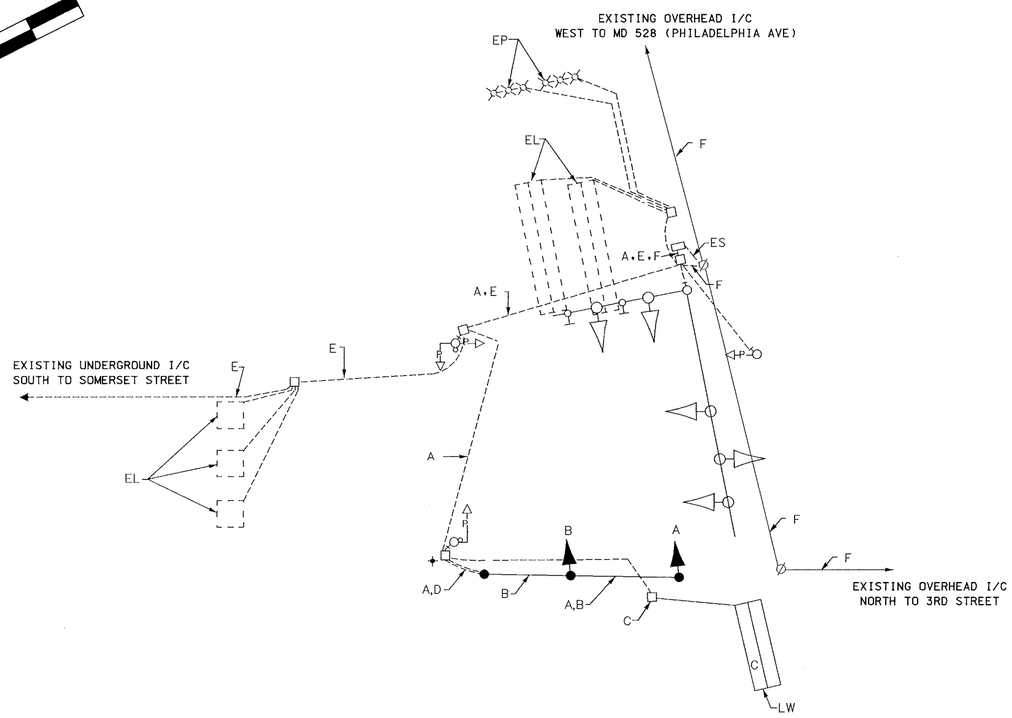
SPEC. NUMBER	DESCRIPTION	QUANTITY
104	Temporary traffic signs	150 S.F.
105	Flashing arrow panels	5 U.D.
205	Test pit excavation.	1 C.Y.
801	Furnish and install concrete for signal foundation.	3 C.Y.
804	Furnish and install ground rod, 3/4" diameter x 10' length	1 EA
815	Saw cut for signal (loop detector).	90 L.F.
805	1" electrical conduit for galvanized detector sleeve.	10 L.F.
	27' steel pole (cut to 21') with a 50' mast arm (cut to 46'). (Note: 4 anchor bolts will be (1 3/4" x 90")	1 EA
805	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	15 L.F.
810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	330 L.F.
810	Furnish and install No. 6 AWG stranded bare copper ground wire.	30 L.F.
810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).	45 L.F.
810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).	280 L.F.
814	12", one-way, three-section (R,Y,G) polycarbonate traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.	2 EA
	Relocate existing overhead sign, provide new mast arm mounting brackets.	5 EA
	Remove existing steel pole, mast arms and concrete foundation 2' below grade.	1 EA
	Cut, clean and cap mast arm / steel pole.	2 EA

PHASING CHART



	1	2	3	4	5	6	7	8	9	10	11
PHASE 2	G	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	R	R	R	R	FL/WK	FL/WK	DW	DW
2 CHANGE	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	G	G	G	G	DW	DW	FL/WK	FL/WK
4 & 8 ALT CHANGE	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

C - EXISTING 2-CONDUCTOR ELECTR CABLE (NO. 14 A.W.G) ALUMINU SHIELDED SPLICED TO LOOP WI

D - STRANDED BARE COPPER GROU WIRE (NO. 6 A.W.G.)

E - EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY F

F - EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE

EL - EXISTING LOOP WIRE (NO. 14 A.W.G.)

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

ES - EXISTING SERVICE TO BE MAINTAINED BY CONNECTIV

✦ - GROUND ROD

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

3761GI.dgn

REVISIONS
(B) 3-16-2000 REPLACE "T" MAST ARM S.H.A. NO:
R.R.Z.
A 1-25-95 ASBUILT S.H.A. NO: 855 -25056011
R.R.Z.

APPROVALS

ORIGINAL ON FILE

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMIN

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIV

GENERAL INFORMATION SHEET

MD 378 (BALTIMORE AVENUE) AN N. DIVISION STREET

DRAWN BY: C. F. STARKEY	F.A.P. NO.		TS NO. 140B
CHECKED BY:	S.H.A. NO.	855-25056011	
SCALE: N/A	COUNTY:	WORCESTER	T.I.M.S. NO.
DATE: 9/22/94	LOG MILE:	23037800.44	