F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF VOICE GRADE INTERCONNECT CABLE ALONG U.S. 50 BETWEEN CIVIC AVENUE AND TILGHMAN ROAD IN SALISBURY, MARYLAND. EXSISTING INTERCONNECT BETWEEN WARD STREET AND CIVIC AVE. TO BE MAINTAINED

WORK WILL ALSO CONSIST OF THE INSTALLATION OF SAMPLING STATIONS ON WESTBOUND U.S. 50 EAST OF TILGHMAN ROAD, WESTBOUND U.S. 50 WEST OF NAYLOR STREET AND EASTBOUND U.S. 50 EAST OF WARD STREET AND THE MASTER CONTROLLER AT THE INTERSECTION OF U.S. 50 AND CIVIC AVENUE. WEST OF BUCKTOWN ROAD.

INTERSECTION OPERATION

THE OPERATION OF THE SIGNALIZED INTERSECTIONS WILL REMAIN THE SAME. A MASTER CONTROLLER WILL BE INSTALLED AT U.S. 50 AND CIVIC AVENUE.

CONTROLLER REQUIREMENTS

ONE-FOUR CHANNEL, TIME DELAY-OUTPUT LOOP DETECTOR AMPLIFIER WILL BE INSTALLED IN THE CONTROLLER CABINETS AT U.S. 50 AND WARD STREET, U.S. 50 AND NAYLOR STREET AND U.S. 50 AND CIVIC AVENUE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EACH	MASTER CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A BASE MOUNTED CABINET.
9002	2 EACH	EMPTY "P" TYPE BASE MOUNTED CABINET.
9003	3 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-105.00
STANDARD NO. MD-105.01
STANDARD NO. MD-105.02
STANDARD NO. MD-105.101 (FLAGGING OPERATION)
STANDARD NO. MD-105.311 (SHOULDER WORK)
STANDARD NO. MD-105.301 (LEFT LANE CLOSURE)
STANDARD NO. MD-105.303 (RIGHT LANE CLOSURE)
STANDARD NO. MD-105.305 (CENTER LANE CLOSURE)
STANDARD NO. MD-107.007 (MOBILE INTERSECTION WORK)

NOTE: STANDARDS TO BE MODIFIED, BY REPLACING W21-5 SIGN (ROAD CONSTRUCTION) WITH A W20-1 SIGN (ROAD WORK AHEAD).

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. DONNIE DREWER
DISTRICT ENGINEER
PHONE: (410) 543-6715

MR. ALFRED BUDNICHUK
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 543-6715

MR. JAMES WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 543-6715

MR. BRUCE POOLE
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 543-6715

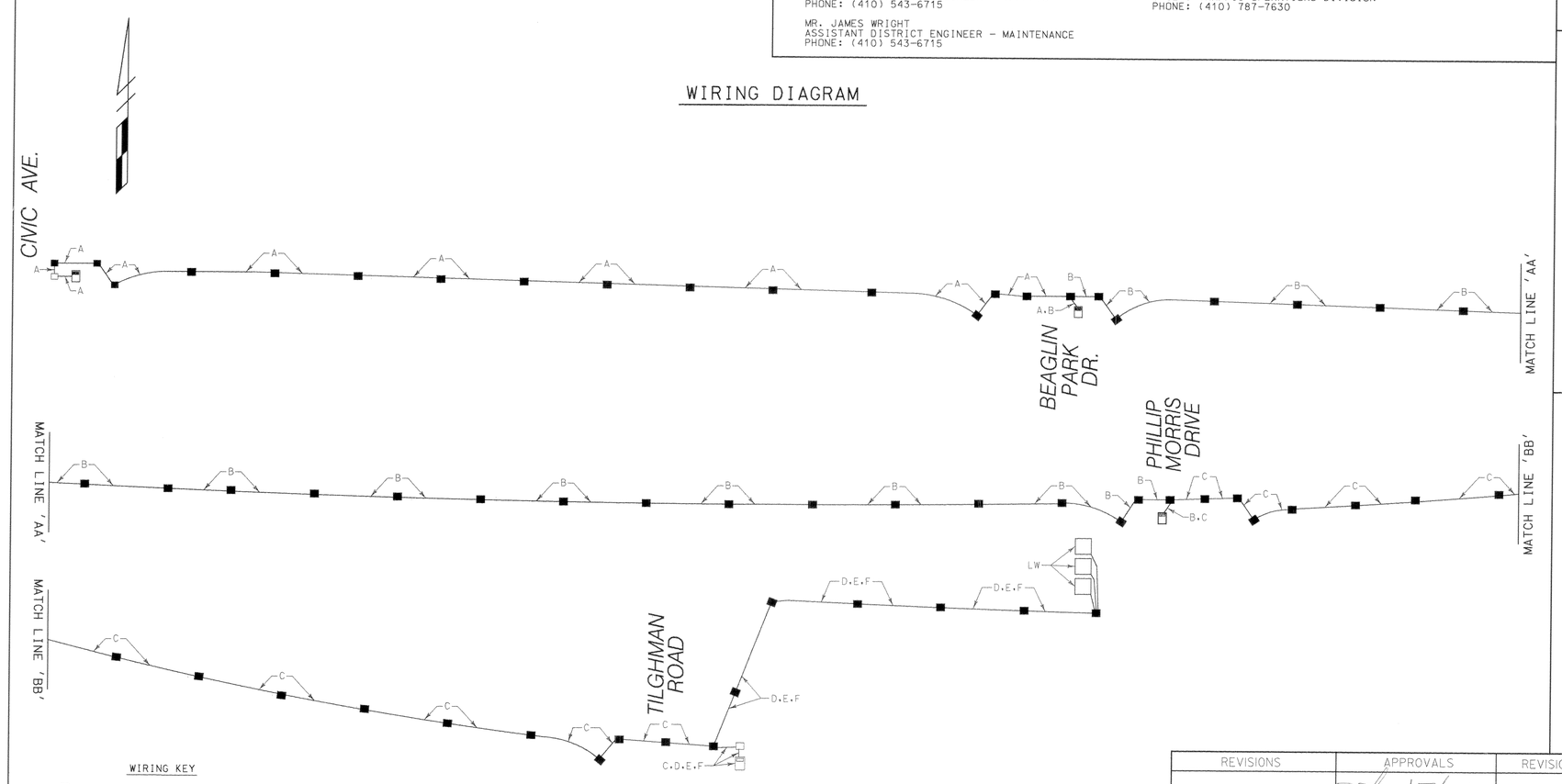
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
2001	3 C.Y.	TEST PIT EXCAVATION
8001	6 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8008	3 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8010	500 L.F.	SAW CUT FOR SIGNAL
8012	50 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT - SLEEVE
8014	10 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
8018	8150 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
8019	55 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8020	360 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8021	50 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
8023	2 EACH	FURNISH AND INSTALL CONDUIT BEND INTO EXISTING CONCRETE BASE
8024	62 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8026	2 EACH	CONTROL AND DISTRIBUTION EQUIPMENT
8027	3 EACH	FURNISH AND INSTALL GROUND ROD (3/4 IN. X 10 FT.)
8028	9500 L.F.	12-PAIR COMMUNICATION CABLE - JELLY FILLED (UNDERGROUND)
8030	1520 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING - NO. 14 AWG - THWN
8031	4350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2-CONDUCTOR, NO. 14 AWG (ALUMINUM SHIELDED)
8036	30 L.F.	FURNISH AND INSTALL NO. 6 AWG - STRANDED BARE COPPER GROUND WIRE
8038	100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG THHN/THWN

WIRING DIAGRAM



WIRING KEY

ABC } 12-PAIR COMMUNICATION CABLE - JELLY FILLED (UNDERGROUND)

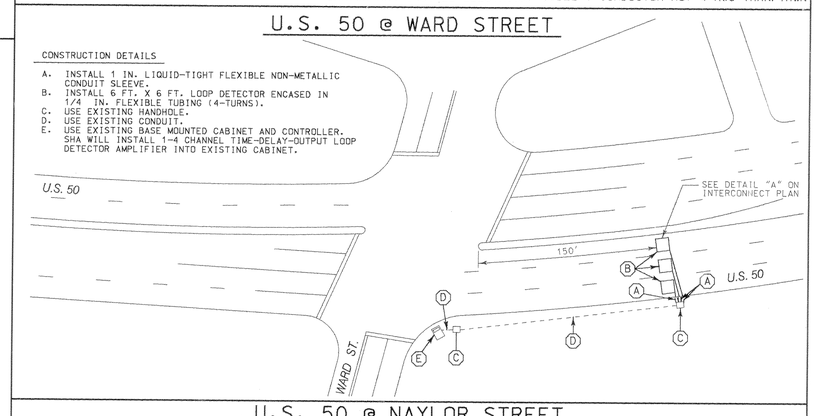
DEF } ELECTRICAL CABLE - 2-CONDUCTOR, NO. 14 AWG (ALUMINUM SHIELDED)

LW - LOOP WIRE ENCASED IN FLEXIBLE TUBING - NO. 14 AWG - THWN

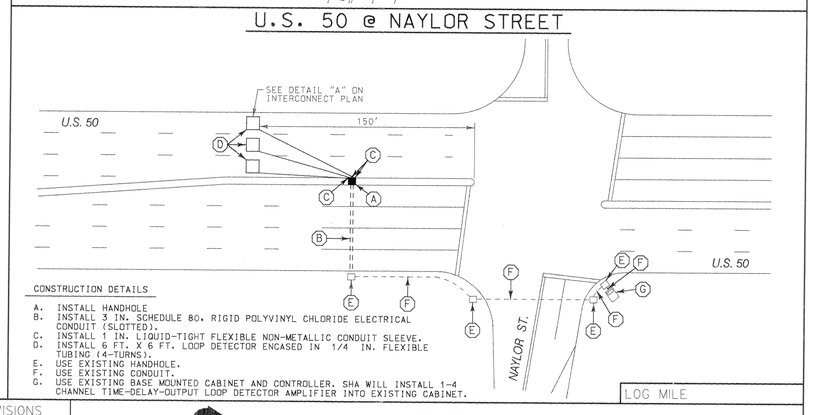
U.S. 50 @ WARD STREET

CONSTRUCTION DETAILS

A. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE.
B. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (4-TURNS).
C. USE EXISTING HANDHOLE.
D. USE EXISTING CONDUIT.
E. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. SHA WILL INSTALL 1-4 CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER INTO EXISTING CABINET.



U.S. 50 @ NAYLOR STREET



CONSTRUCTION DETAILS

A. INSTALL HANDHOLE
B. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
C. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE.
D. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (4-TURNS).
E. USE EXISTING HANDHOLE.
F. USE EXISTING CONDUIT.
G. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. SHA WILL INSTALL 1-4 CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER INTO EXISTING CABINET.

LOG MILE

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF 1/2/97	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 1/8/97	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY 1/8/97	

WR&A
Whitman, Requardt and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 50 FROM WARD STREET TO TILGHMAN ROAD

DATE: 11-26-96	DRAWN BY: S. BLOSS	F.A.P. NO.	PLAN SHEET NO.: TS-3650	SHEET NO.
SCALE: NONE	DESIGNED BY: N. LEARY	S.H.A. NO. AW113A52 AW113B52		2 OF 2
APPROVED BY: MAR 1-7-97	CHECKED BY: T.HANNAN	COUNTY WICOMICO		

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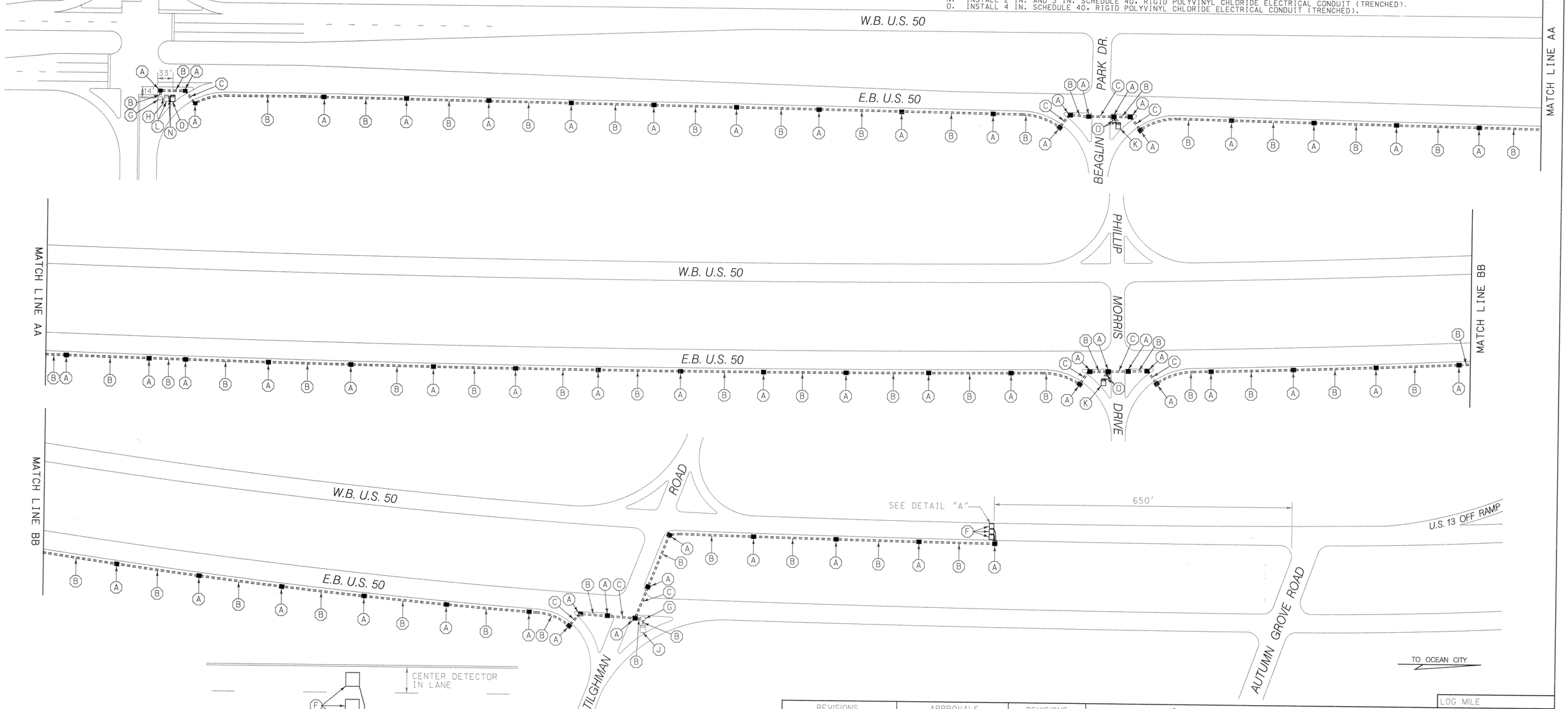
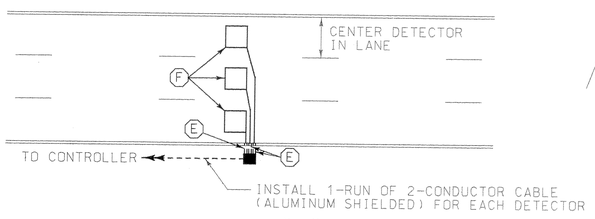
CONSTRUCTION DETAILS

A. INSTALL HANDHOLE.
B. INSTALL 3 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
C. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
D. INSTALL BASE MOUNTED CABINET AND MASTER CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-2 IN. AND 1-3 IN. SCHEDULE 40 PVC CONDUIT BENDS).
E. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT - SLEEVE.
F. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (4-TURNS).
G. USE EXISTING HANDHOLE.
H. USE EXISTING CONDUIT.
J. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL 1-3 IN. SCHEDULE 40 PVC CONDUIT BEND INTO EXISTING CONCRETE. SHA WILL INSTALL 1-4 CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER INTO EXISTING CABINET.
K. INSTALL EMPTY "P" TYPE CABINET (NOTE: 1-2 IN., 1-3 IN., AND 2-4 IN. SCHEDULE 40 PVC CONDUIT BENDS).
L. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL 1-3 IN. SCHEDULE 40 PVC CONDUIT BEND INTO EXISTING CONCRETE FOUNDATION.
N. INSTALL 2 IN. AND 3 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
O. INSTALL 4 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).



LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV



DETAIL "A"
NOT TO SCALE

LOG MILE

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF 1/2/97	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 1/8/97	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
U.S. 50 FROM WARD STREET TO TILGHMAN ROAD

DATE: 11-26-96	DRAWN BY: S. BLOSS	F.A.P. NO.	PLAN SHEET NO.: TS-3650	SHEET NO.
SCALE: 1" = 100'	DESIGNED BY: N. LEARY	S.H.A. NO. AW113A52 AW113B52		OF
APPROVED BY: MAR 1-7-97	CHECKED BY: T.HANNAN	COUNTY WICOMICO		

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