EXISTING SIGNALS & SIGNS

MD 124 RUNS IN A NORTH-SOUTH DIRECTION.

2.4 | 3.5-9 | 10-17 | 18 | 20 | 21 | 22 | 23.25 | 24.27 | 26 | 28.29

R10-12 36" x 42"

PROPOSED SIGNALS & SIGN

1 | 4 | 19

R3-1 30" x 30"

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318

MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

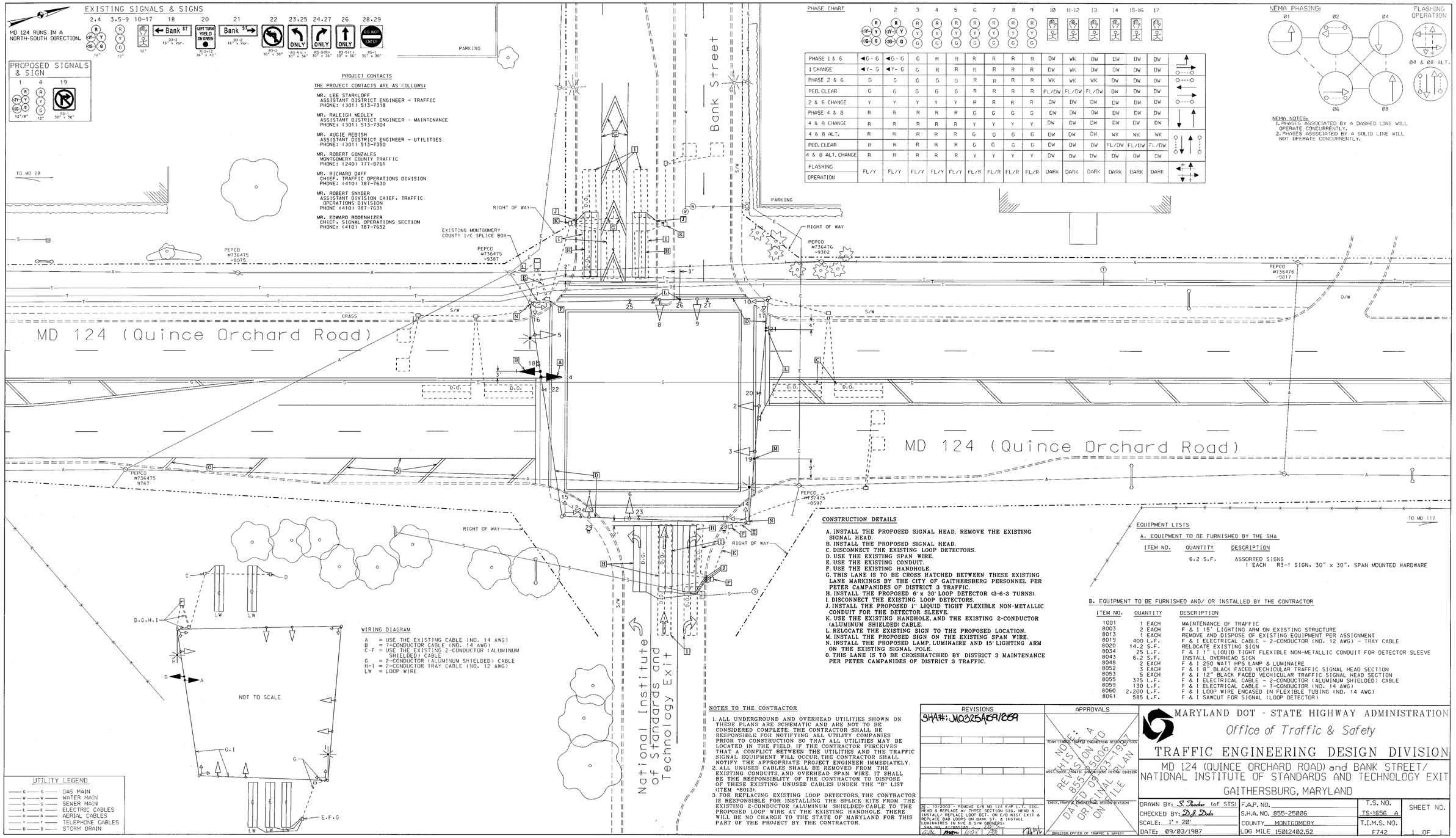
MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (301) 513-7350

MR. ROBERT GONZALES
MONTGOMERY COUNTY TRAFFIC
PHONE: (240) 777-8761

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

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11-12	13	14	15-16	17
PHASE 1 & 5	G-G	G-G	G	R	R	R	R	R	R	DW	WK	DW	DW	DW	DW
1 CHANGE	Y-G	Y-G	G	R	R	R	R	R	R	DW	WK	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	WK	WK	WK	DW	DW	DW
PED. CLEAR	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
4 & 8 ALT.	R	R	R	R	R	G	G	G	G	DW	DW	DW	WK	WK	WK
PED. CLEAR	R	R	R	R	R	G	G	G	G	DW	DW	DW	FL/DW	FL/DW	FL/DW
4 & 8 ALT. CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

NEMA PHASING:

Ø1 | Ø2 | Ø4 | Ø6 | Ø8

FLASHING OPERATION

Ø4 & Ø8 ALT.

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

WIRING DIAGRAM

A = USE THE EXISTING CABLE (NO. 14 AWG)
B = 7-CONDUCTOR CABLE (NO. 14 AWG)
C-F = USE THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
G = 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
H-I = 2-CONDUCTOR TRAY CABLE (NO. 12 AWG)
LW = LOOP WIRE

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES
D — D	STORM DRAIN

CONSTRUCTION DETAILS

A. INSTALL THE PROPOSED SIGNAL HEAD. REMOVE THE EXISTING SIGNAL HEAD.
B. INSTALL THE PROPOSED SIGNAL HEAD.
C. DISCONNECT THE EXISTING LOOP DETECTORS.
D. USE THE EXISTING SPAN WIRE.
E. USE THE EXISTING CONDUIT.
F. USE THE EXISTING HANDHOLE.
G. THIS LANE IS TO BE CROSS HATCHED BETWEEN THESE EXISTING LANE MARKINGS BY THE CITY OF GAITHERSBERG PERSONNEL PER PETER CAMPANIDES OF DISTRICT 3 TRAFFIC.
H. INSTALL THE PROPOSED 6' x 30' LOOP DETECTOR (3-6-3 TURNS).
I. DISCONNECT THE EXISTING LOOP DETECTORS.
J. INSTALL THE PROPOSED 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR THE DETECTOR SLEEVE.
K. USE THE EXISTING HANDHOLE, AND THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE.
L. RELOCATE THE EXISTING SIGN TO THE PROPOSED LOCATION.
M. INSTALL THE PROPOSED SIGN ON THE EXISTING SPAN WIRE.
N. INSTALL THE PROPOSED LAMP, LUMINAIRE AND 15' LIGHTING ARM ON THE EXISTING SIGNAL POLE.
O. THIS LANE IS TO BE CROSSHATCHED BY DISTRICT 3 MAINTENANCE PER PETER CAMPANIDES OF DISTRICT 3 TRAFFIC.

NOTES TO THE CONTRACTOR

1. ALL UNDERGROUND AND OVERHEAD 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 LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
2. ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS, AND OVERHEAD SPAN WIRE. IT SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR TO DISPOSE OF THESE EXISTING UNUSED CABLES UNDER THE "B" LIST (ITEM #8013).
3. FOR REPLACING EXISTING LOOP DETECTORS, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE SPLICE KITS FROM THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE TO THE PROPOSED LOOP WIRE AT THE EXISTING HANDHOLE. THERE WILL BE NO CHARGE TO THE STATE OF MARYLAND FOR THIS PART OF THE PROJECT BY THE CONTRACTOR.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	6.2 S.F.	ASSORTED SIGNS 1 EACH R3-1 SIGN, 30" x 30", SPAN MOUNTED HARDWARE

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8003	2 EACH	F & I 15' LIGHTING ARM ON EXISTING STRUCTURE
8013	1 EACH	REMOVE AND DISPOSE OF EXISTING EQUIPMENT PER ASSIGNMENT
8019	400 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) - TRAY CABLE
8020	14.2 S.F.	RELOCATE EXISTING SIGN
8034	25 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8043	6.2 S.F.	INSTALL OVERHEAD SIGN
8048	2 EACH	F & I 250 WATT HPS LAMP & LUMINAIRE
8052	3 EACH	F & I 8" BLACK FACED VECHICULAR TRAFFIC SIGNAL HEAD SECTION
8053	5 EACH	F & I 12" BLACK FACED VECHICULAR TRAFFIC SIGNAL HEAD SECTION
8055	375 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
8059	130 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8060	2,200 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8061	585 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)

REVISIONS	APPROVALS
SHA#: M0325A69/B59	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
Q1 - 10/2003 - REMOVE S/B MD 124 E/P L.T. SIG. HEAD & REPLACE W/ THREE SECTION SIG. HEAD & INSTALL/ REPLACE LOOP DET. ON E/B NIST EXIT & REPLACE BAD LOOPS ON N/B & INSTALL LUMINAIRES IN N/E & S/W CORNERS! - SHALWA, A12885/65	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

NOT A REVISION TO A 855-25006 DATED 09-03-1987 ORIGINAL PLAN ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 124 (QUINCE ORCHARD ROAD) and BANK STREET/ NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY EXIT
GAITHERSBURG, MARYLAND

DRAWN BY: S. Thacker (of STS)	F.A.P. NO.	T.S. NO. TS-1856 A	SHEET NO.
CHECKED BY: D.J. Dude	S.H.A. NO. 855-25006		
SCALE: 1" = 20'	COUNTY MONTGOMERY	T.I.M.S. NO. F742	1 OF 1
DATE: 09/03/1987	LOG MILE 15012402.52		