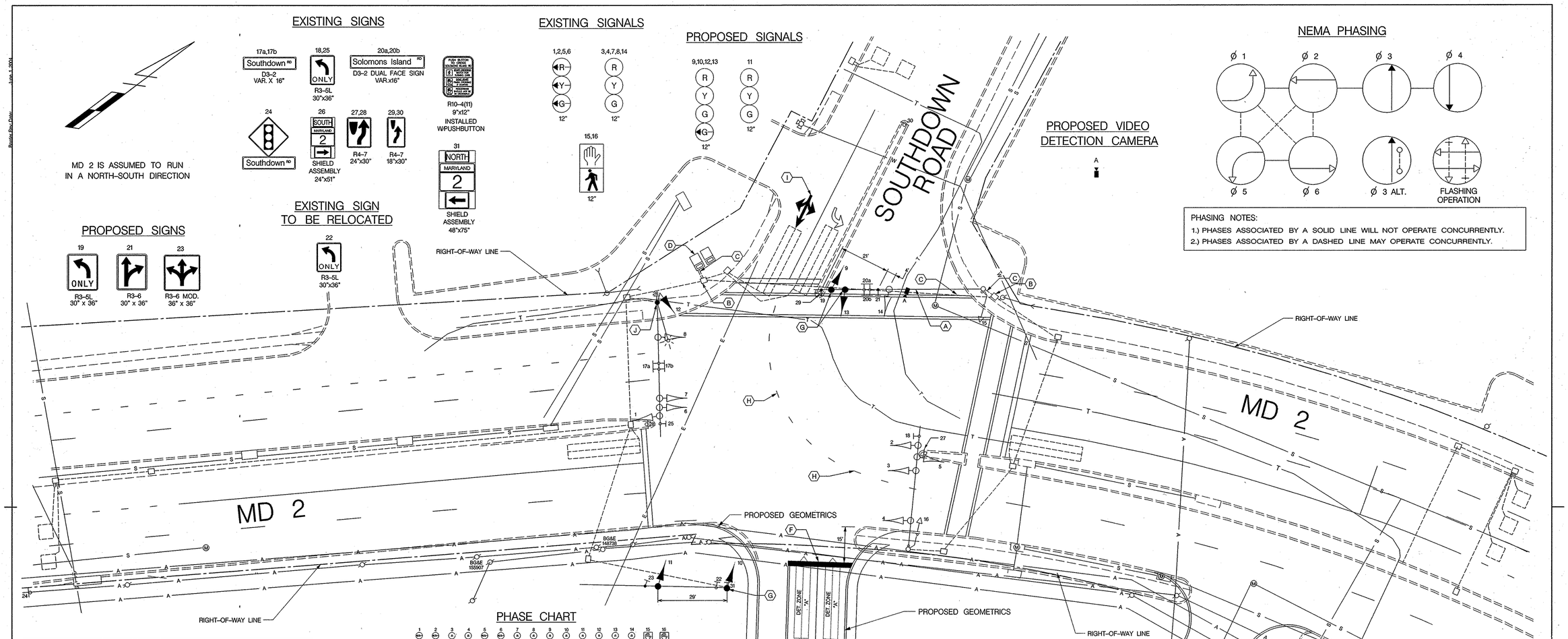
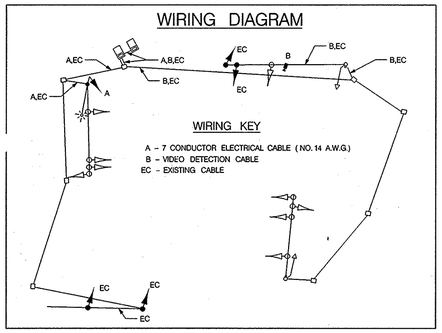


PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6,2 & 5, OR 2 & 6															
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	G (OVL)	G (OVL)	G	G	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 3 ALT.	R	R	R	R	R	R	R	R	R	R	R (OVL)	R (OVL)	G	G	WK	WK
PED. CLEAR	R	R	R	R	R	R	R	R	R	R	R (OVL)	R (OVL)	G	G	FL DW	FL DW
3 ALT. CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4	R	R	R	P	R	R	R	R	G (OVL)	G (OVL)	G	R	R	R	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
FLASHING OPERATION	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - 7 CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
B - VIDEO DETECTION CABLE
EC - EXISTING CABLE

CONSTRUCTION DETAILS

A. INSTALL VIDEO DETECTION CAMERA AND SIGNS ON EXISTING MAST ARM
B. USE EXISTING HANDHOLE
C. USE EXISTING CONDUIT
D. INSTALL VIDEO INTERFACE EQUIPMENT IN EXISTING BASE MOUNTED CABINET AND CONTROLLER
E. VIDEO DETECTION ZONE
F. INSTALL 24 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
G. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS, NEW SIGN (23), AND RELOCATED SIGN (22) AS SHOWN
H. INSTALL 5 IN. WHITE THERMOPLASTIC PAVEMENT MARKING (3 FT. LINE - 9 FT. GAP)
I. INSTALL PAVEMENT MARKING ARROW
J. INSTALL SIGNAL HEAD ON EXISTING POLE
K. YELLOW PAVEMENT MARKING (BY OTHERS)
L. WHITE PAVEMENT MARKING (BY OTHERS)

NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE YEAR FROM DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 AND SOUTHDOWN ROAD IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR MD 2, AND AN ALTERNATE PEDESTRIAN PHASE ACROSS THE NORTH LEG OF MD 2

PROJECT CONSTRUCTION

WORK WILL CONSIST OF SPLITTING THE SIDE STREET PHASES AND REPLACING THE EXISTING DETECTION ON THE EAST APPROACH

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA AND CABLE
1 EA	FURNISH AND INSTALL R3-6 (MOD.) SIGN (36" X 36") MAST ARM MOUNT
1 EA	FURNISH AND INSTALL R3-5L SIGN (30" X 36") MAST ARM MOUNT
1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
1 EA	FURNISH AND INSTALL R3-6 SIGN (30" X 36") MAST ARM MOUNT
1 EA	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
19 EA	FURNISH AND INSTALL 12 IN. TRAFFIC SIGNAL SECTION
30 LF	FURNISH AND INSTALL 24 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
100 LF	FURNISH AND INSTALL 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
30 LF	FURNISH AND INSTALL 5 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
1 EA	RELOCATE EXISTING SIGN

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

B	9-25-07	SPLIT THE SIDE STREET PHASING AND REPLACED EAST LEG DETECTION
A	9-99	RECONSTRUCT SIGNAL DUE TO ROADWAY WIDENING PROJECT

SHA NO. BW5561M82
SHA NO. AA530-A21

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 2 (SOLOMONS ISLAND ROAD) AND SOUTHDOWN ROAD

SCALE	1" = 20'	DATE	OCT. 1999
CONTRACT NO.	BW572-801-512		
DESIGNED BY	A. FORNARO	COUNTY	ANNE ARUNDEL
DRAWN BY	A. FORNARO	LOGMILE	02000217.03
CHECKED BY	D. PETERS	T.I.M.S. NO.	I-585
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS-1817B	SHEET NO.	OF