DRILL HOLES

DRILL HOLES

DRILL HOLES

MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

WIRING DIAGRAM

WIRING KEY

A–B 7–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC EXISTING CABLE

PROPOSED SIGNALS

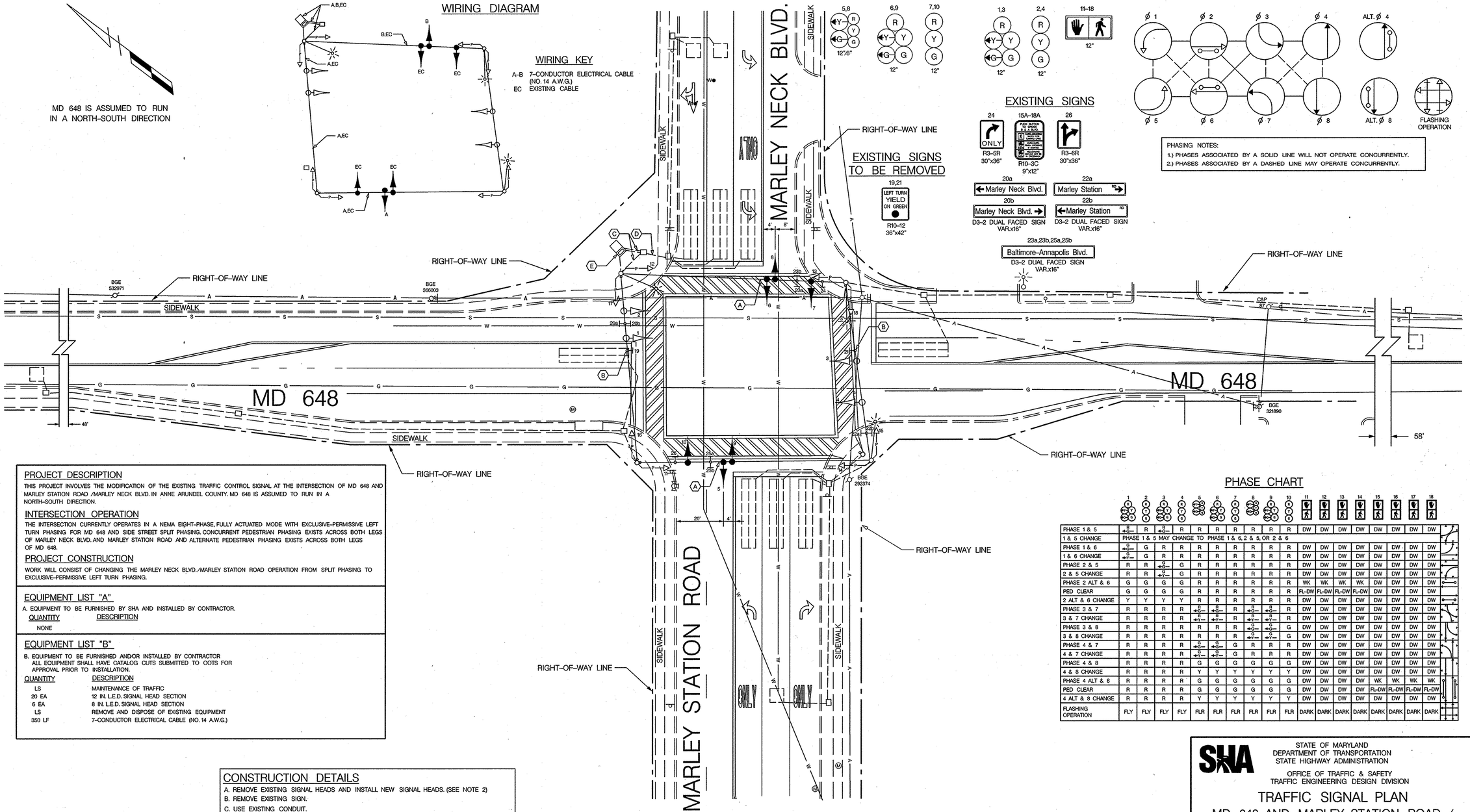
EXISTING SIGNALS

NEMA PHASING

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

EXISTING SIGNS

EXISTING SIGNS TO BE REMOVED



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6																	
PHASE 1 & 6	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	R	R	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 ALT & 6	G	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR	G	G	G	G	R	R	R	R	R	R	FL–DW	FL–DW	FL–DW	FL–DW	DW	DW	DW	DW
2 ALT & 6 CHANGE	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 & 7 CHANGE	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 8	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
3 & 8 CHANGE	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 7	R	R	R	R	R	R	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
4 & 7 CHANGE	R	R	R	R	R	R	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT & 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEAR	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL–DW	FL–DW	FL–DW	FL–DW
4 ALT & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 648 AND MARLEY STATION ROAD /MARLEY NECK BLVD. IN ANNE ARUNDEL COUNTY. MD 648 IS ASSUMED TO RUN IN A NORTH–SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT–PHASE, FULLY ACTUATED MODE WITH EXCLUSIVE–PERMISSIVE LEFT TURN PHASING FOR MD 648 AND SIDE STREET SPLIT PHASING. CONCURRENT PEDESTRIAN PHASING EXISTS ACROSS BOTH LEGS OF MARLEY NECK BLVD. AND MARLEY STATION ROAD AND ALTERNATE PEDESTRIAN PHASING EXISTS ACROSS BOTH LEGS OF MD 648.

PROJECT CONSTRUCTION

WORK WILL CONSIST OF CHANGING THE MARLEY NECK BLVD./MARLEY STATION ROAD OPERATION FROM SPLIT PHASING TO EXCLUSIVE–PERMISSIVE LEFT TURN PHASING.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR.

QUANTITY	DESCRIPTION
NONE	

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
20 EA	12 IN. L.E.D. SIGNAL HEAD SECTION
6 EA	8 IN. L.E.D. SIGNAL HEAD SECTION
LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
350 LF	7–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

CONSTRUCTION DETAILS

A. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS. (SEE NOTE 2)
B. REMOVE EXISTING SIGN.
C. USE EXISTING CONDUIT.
D. USE EXISTING HANDHOLE.
E. USE EXISTING BASE MOUNTED CABINET.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

GENERAL NOTES

1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
2. SIGNAL INDICATIONS 6,7,9, AND 10 ARE TO BE INSTALLED IN EXISTING SIGNAL HEAD LOCATIONS AND USE EXISTING ELECTRIC CABLE. INDICATIONS 5 AND 8 ARE TO BE INSTALLED AS SHOWN.

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

9–14–07	TMZ	CHANGE SIDE STREET PHASING FROM SPLIT TO E.P. SHA NO. BW–096\MS2

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN

MD 648 AND MARLEY STATION ROAD / MARLEY NECK BLVD

SCALE	1" = 20'	DATE	10–6–93
CONTRACT NO.	BW662–801–512		
DESIGNED BY	E.J.S	COUNTY	ANNE ARUNDEL
DRAWN BY	D.G.M.	LOGMILE	Q264801.07
CHECKED BY	G. FRANGOS	T.I.M.S. NO.	I–758
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS–3378C	SHEET NO.	1 OF 1