MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

GENERAL NOTES:

1. This plan reflects only those underground utilities that were apparent at the time of this location being asbuilt. A detailed review was not undertaken and this plan should not be construed as representing all underground utilities in the area.
2. The SHA Signal Shop will be responsible for all internal cabinet wiring.

PROPOSED SIGNS

13

LEFT TURN
YIELD
ON GREEN

R10-12
24" x 30"

EXISTING SIGNS

10a,10b,11a,11b

Powder Mill Rd.

D3-2
16" x VARIABLE
DUAL-FACED

12

NORTH 197 SOUTH

SPECIAL SIGN

PROPOSED SIGNALS

1 2 3

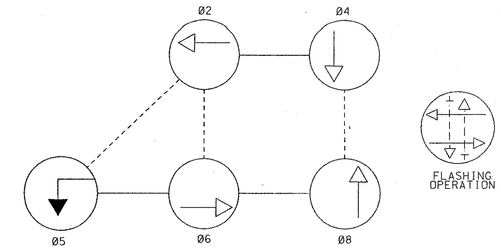
12" 12" 12"/8"

EXISTING SIGNALS

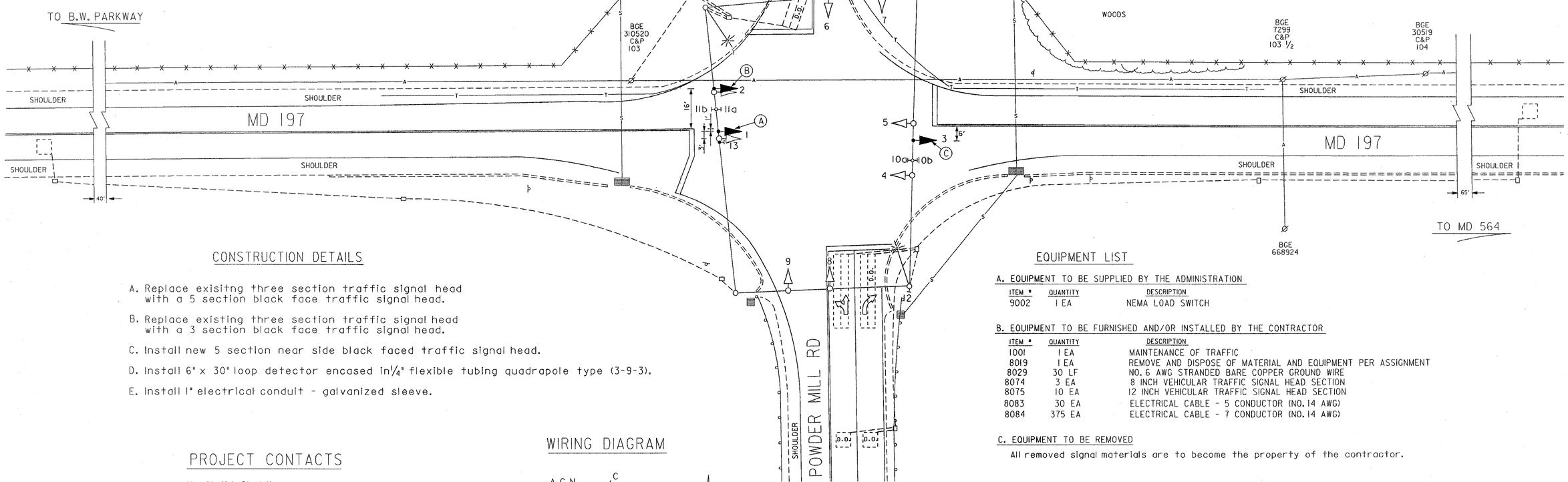
4-9

12"

NEMA PHASING



PHASING NOTES:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
PHASE 5 WILL OPERATE IN THE AM PEAK HOURS ONLY.



CONSTRUCTION DETAILS

A. Replace exisitng three section traffic signal head with a 5 section black face traffic signal head.

B. Replace existing three section traffic signal head with a 3 section black face traffic signal head.

C. Install new 5 section near side black faced traffic signal head.

D. Install 6" x 30" loop detector encased in 1/4" flexible tubing quadrapole type (3-9-3).

E. Install 1" electrical conduit - galvanized sleeve.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	DESCRIPTION
9002	1 EA	NEMA LOAD SWITCH

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

ITEM #	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8019	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8029	30 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8074	3 EA	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8075	10 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8083	30 EA	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8084	375 EA	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become the property of the contractor.

PROJECT CONTACTS

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: (301) 513-7358

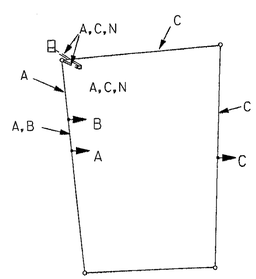
Mr. Wayne Mowry
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Assistant District Engineer -Utility
Phone: (301) 513-7350

Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: (410) 787-7652

Mr. Richard Daff
Chief, Traffic Operations Division
Phone: (410) 787-7630

WIRING DIAGRAM



LEGEND

A,C - ELECTRIC CABLE - 7 CONDUCTOR NO 14 AWG

B - ELECTRIC CABLE - 5 CONDUCTOR NO 14 AWG

N - NO. 6 AWG STRANDED BARE COPPER GROUND 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

SHA#: PG 496A58/058 TOD#: AT 357-33

REVISIONS

C	ADDED LEFT TURN SIGNAL FOR NB MD 197 (AM SIGNAL OPERATION ONLY)	EP	
	SHA NO.: AT357S185	06-01-04	
DJR			
B	1-29-98 ASBUILT SHA NO.: BM956M82		
RRZ			
A	8-7-96 GEOMETRIC MODIFICATIONS SHA NO.: BM956M82		
TCC			

APPROVALS

ASST. CHIEF TEDD SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 197 AND POWDER MILL RD

DRAWN BY: W J NIES	COUNTY: PRINCE GEORGE'S	TS NO. 2563 C	SHEET NO. 1 OF 1
CHECK BY: R R ZACHERL	LOG MILE: 16019710.40		
DATE: 2-1-89	F.A.P. NO.	T.I.M.S. NO. G195	
SCALE: 1" = 20'	S.H.A. NO. P-933-459-385		