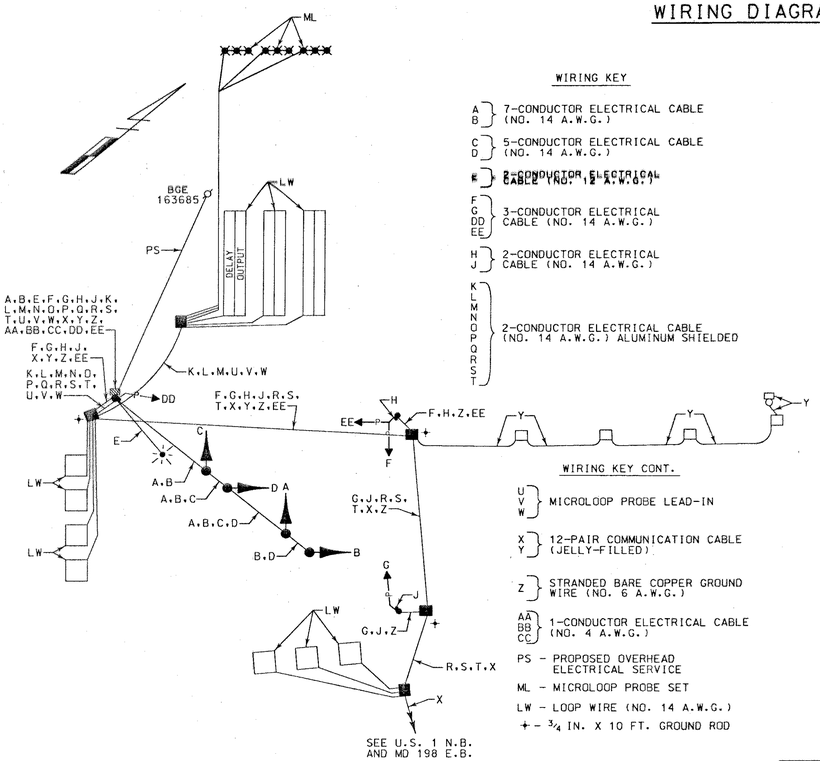
WIRING DIAGRAMS



U.S. 1 S.B. AND MD 198 E.B.

WIRING KEY

- A, B — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C, D — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- F, G, DD, EE — 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- H, J — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K, L, M, N, O, P, Q, R, S, T — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED

WIRING KEY CONT.

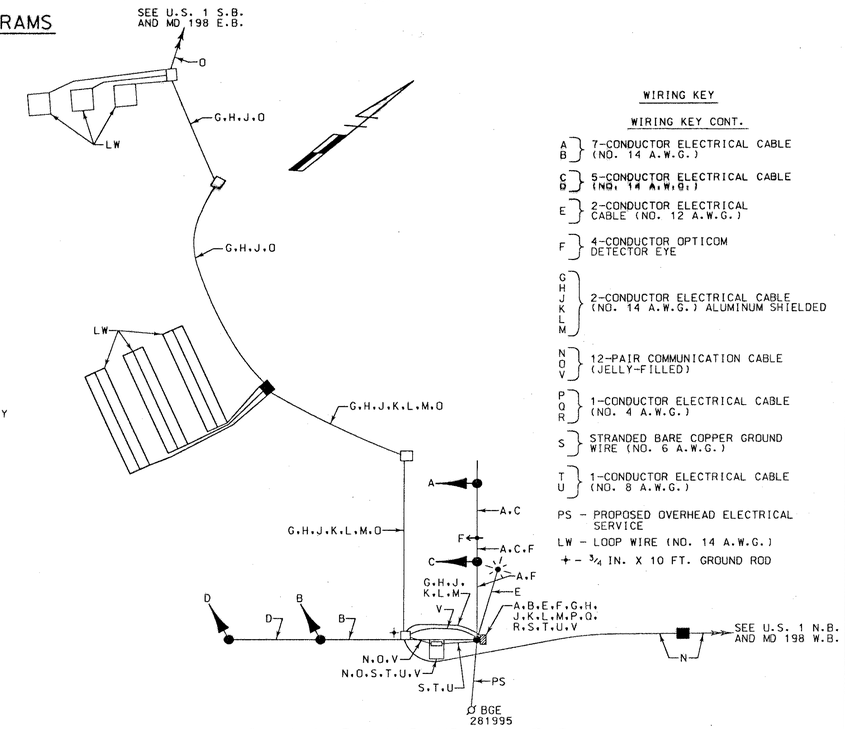
- U, V, W — MICROLOOP PROBE LEAD-IN
- X, Y — 12-PAIR COMMUNICATION CABLE (JELLY-FILLED)
- Z — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- AA, BB, CC — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

PS – PROPOSED OVERHEAD ELECTRICAL SERVICE

ML – MICROLOOP PROBE SET

LW – LOOP WIRE (NO. 14 A.W.G.)

+ – 3/4 IN. X 10 FT. GROUND ROD



U.S. 1 N.B. AND MD 198 E.B.

WIRING KEY

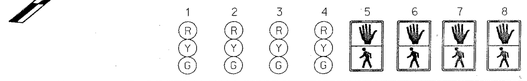
- A, B — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C, D — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- F — 4-CONDUCTOR OPTICOM DETECTOR EYE
- G, H, J, K, L, M — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- N, O, V — 12-PAIR COMMUNICATION CABLE (JELLY-FILLED)
- P, Q, R — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- S — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- T, U — 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)

PS – PROPOSED OVERHEAD ELECTRICAL SERVICE

LW – LOOP WIRE (NO. 14 A.W.G.)

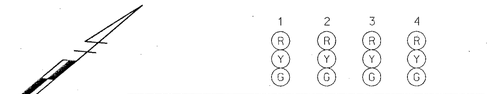
+ – 3/4 IN. X 10 FT. GROUND ROD

PHASE CHARTS



	1	2	3	4	5	6	7	8
PHASE 2	G	G	R	R	WK	WK	DW	DW
PED. CLEARANCE	G	G	R	R	FL/DW	FL/DW	DW	DW
2 CHANGE	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	R	R	G	G	DW	DW	DW	DW
4 CHANGE	R	R	Y	Y	DW	DW	DW	DW
PHASE 4 ALT.	R	R	G	G	DW	DW	WK	WK
PED. CLEARANCE	R	R	G	G	DW	DW	FL/DW	FL/DW
4 ALT. CHANGE	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK

U.S. 1 S.B. AND MD 198 E.B.

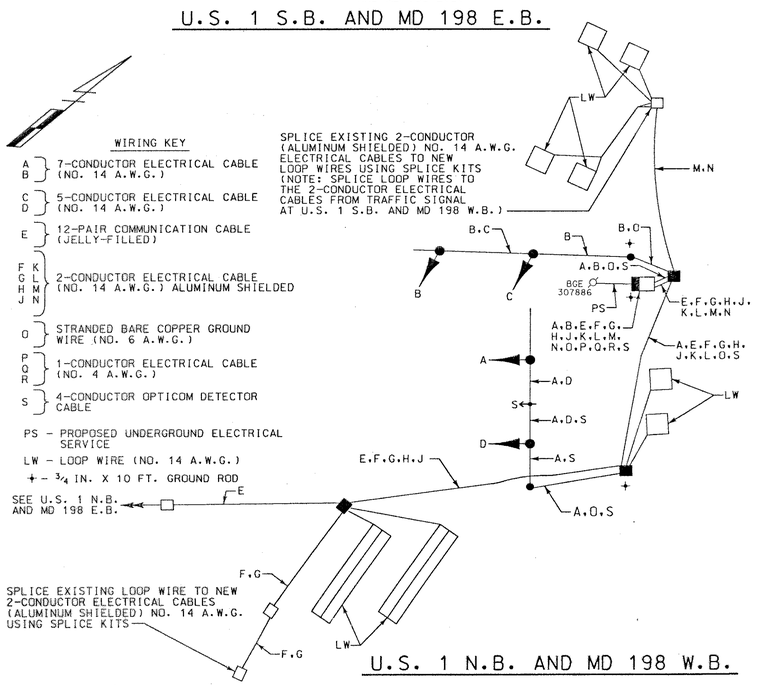


	1	2	3	4
PHASE 2	G	G	R	R
2 CHANGE	Y	Y	R	R
PHASE 4	R	R	G	G
4 CHANGE	R	R	Y	Y
EMERGENCY	G	G	R	R
PRE-EMPTION	Y	Y	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R

U.S. 1 N.B. AND MD 198 E.B.

	1	2	3	4
PHASE 2	G	G	R	R
2 CHANGE	Y	Y	R	R
PHASE 4	R	R	G	G
4 CHANGE	R	R	Y	Y
EMERGENCY	G	G	R	R
PRE-EMPTION	Y	Y	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R

U.S. 1 N.B. AND MD 198 W.B.



WIRING KEY

- A, B — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C, D — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E — 12-PAIR COMMUNICATION CABLE (JELLY-FILLED)
- F, G, H, J, K, L, M, N — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- O — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- P, Q, R — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- S — 4-CONDUCTOR OPTICOM DETECTOR CABLE

PS – PROPOSED UNDERGROUND ELECTRICAL SERVICE

LW – LOOP WIRE (NO. 14 A.W.G.)

+ – 3/4 IN. X 10 FT. GROUND ROD

SPLICE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) NO. 14 A.W.G. ELECTRICAL CABLES TO NEW LOOP WIRES USING SPLICE KITS (NOTE: SPLICE LOOP WIRES TO THE 2-CONDUCTOR ELECTRICAL CABLES FROM TRAFFIC SIGNAL AT U.S. 1 S.B. AND MD 198 W.B.)

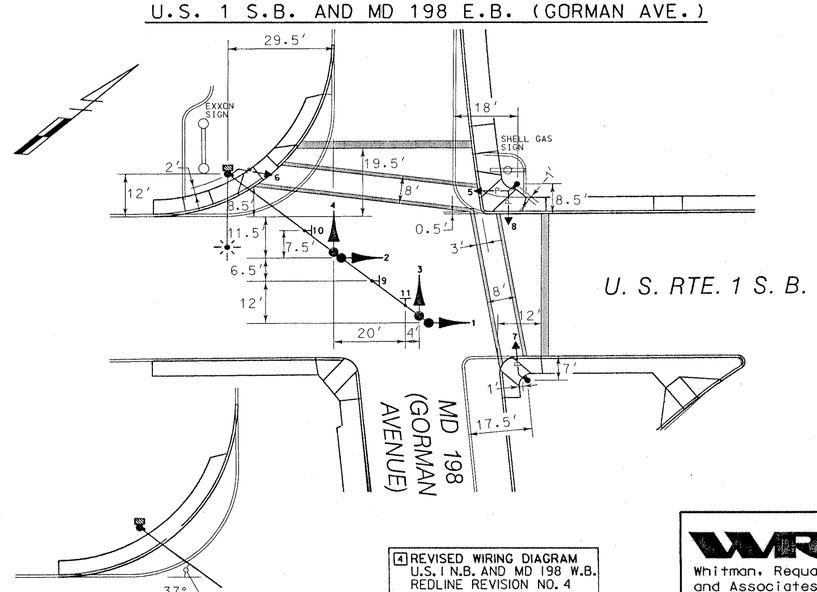
SPLICE EXISTING LOOP WIRE TO NEW 2-CONDUCTOR ELECTRICAL CABLES (ALUMINUM SHIELDED) NO. 14 A.W.G. USING SPLICE KITS

U.S. 1 N.B. AND MD 198 W.B.

DIMENSION DETAIL

SCALE 1" = 20"

U.S. 1 S.B. AND MD 198 E.B. (GORMAN AVE.)



4 REVISED WIRING DIAGRAM
U.S. 1 N.B. AND MD 198 W.B.
REDLINE REVISION NO. 4
CONTRACT NO. PG2745184

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

TSP-16

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 1 INTERSECTIONS

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO. PG2745184		
SCALE: 1"= 20'	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO.	128A OF 162
DATE: 11/12/99	LOG MILE:		

M:\96011\31194GII.DGN