REVISION NO.				
3	HD	CHG 3017(9)	12	17

EXISTING SIGNS

16 — Straw Hat Rd.

15 — Straw Hat Rd.

17 — ONLY

EXISTING SIGNALS

3-6,11,12 — R Y G — 12"

EXISTING SIGNS

14 — LEFT TURN YIELD ON GREEN — R 10-12 36"X42"

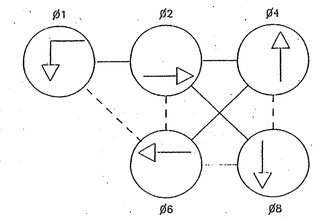
13a,13b — S. Tollgate Rd. — D3-2 Variable x 16" (Dual-Faced)

EXISTING SIGNALS

1 — R Y G — 12"

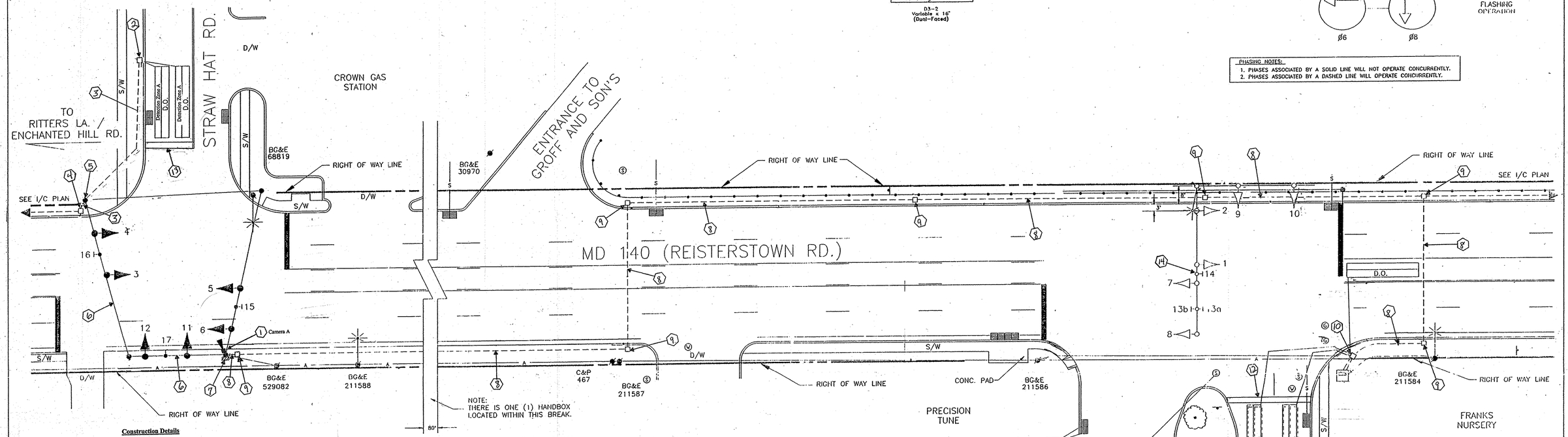
2,7-10 — R Y G — 12"

NEMA PHASING:



FLASHING OPERATION

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



Construction Details

1. Use existing strain pole. Install proposed video detection camera and video detection lead-in cable.
2. Use existing handhole. Cap and abandon existing detector sleeve and remove existing loop detector lead-in cables.
3. Use existing conduit. Remove existing loop detector lead-in cables.
4. Use existing handhole. Remove existing loop detector lead-in cables.
5. Use existing strain pole. Remove existing loop detector lead-in cables
6. Use existing span wire. Remove existing loop detector lead-in cables
7. Use existing controller cabinet. Remove existing loop detector lead-in cables and install proposed loop detector lead-in cables for phase 4. Install proposed video detection lead-in cable and 1inch galvanized riser to accommodate phone drop. TOD personnel will install and program video detection interface equipment and re-tune the amplifiers after completion of the proposed detector work.
8. Use existing conduit. Remove existing loop detector lead-in cables for side road detectors and install proposed loop detector lead-in cables.
9. Use existing handhole. Remove existing loop detector lead-in cables for side road detectors and install proposed loop detector lead-in cables.
10. Re-build existing handhole. Cap and abandon existing detector sleeves and remove existing loop detector lead-in cables for side road detectors. Install proposed detector sleeve, loop wires and loop detector lead-in cables. Splice proposed loop wires to proposed loop detection lead-in cables.
11. Install 6' x 30'quadrupole loop detectors. (Note: 3-6-3 turns)
12. Install stop line in accordance to SHA Standards.
13. Remove stop line and re-install in accordance to SHA Standards.
14. Remove and dispose of existing R10-12 sign.

Equipment List 'A'
Equipment to be supplied and installed by SHA.
Communication Panel
TS-2 Mini-Hub
TS-2 Mini-Hub Cables
Industrial 56k Modem
SDLC Cables

Equipment List 'B'
Equipment to be furnished and installed by the Contractor.

ITEM	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5003	60	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	25	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
8017	1	EA	REBUILD HANDHOLE- NEW FRAME & COVER
8018	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8029	30	LF	1 IN. ELECTRICAL CONDUIT- GALVANIZED RISER
8040	10	LF	1 IN. LIQUID TIGHT FLEXABLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8050	1	EA	VIDEO DETECTION CAMERA & CONTROLLER CABLES UP TO 500 LF
8057	2630	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8062	1100	LF	LOOP WIRE ENCASED IN FLEXABLE TUBING (NO.14 AWG)
8063	295	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

Equipment List 'C'
Removed and Salvaged Items
NONE

TRAFFIC SIGNAL SYMBOLS

EXISTING		PROPOSED
	HANDHOLE	
	LOOP DETECTOR(6X30)	
	LOOP DETECTOR(6X6)	
	CONDUIT	
	MICRO LOOP PROBE SET	
	ZOOM LENS IMAGE SENSOR	

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

REVISIONS				
D 6-10-92 REBUILD SIGNAL AT TOLLGATE RD. AND ADD I/C SHA NO.:B-965-501-485 FAP NO.: CMG-3017(9)				
R.R.Z.				
C 5-91 ASBUILT - E/P LT. REPLACE LOOPS				
MEL				
B 7-29-73 ASBUILT				
P.M.	D.D.	H.K.		
A 5-10-73 REVISED B-223X-475 TO B-223X-476				
J.G.				

REVISIONS				
E Installation of video detection 01/2006 OT 2007 TMS# J-051				

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic and Safety
TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL NUMBER: LOG MILE: 03014005.68

DRAWN BY:
DES. BY:
CHK. BY:

MD 140 AND S. TOLLGATE RD.
COUNTY BALTIMORE

DATE: 1-2-73 F.A.P. NO.
SCALE: 1" = 20' S.H.A. NO. B-223X-476

TS/STD. NO. TS-148E

SHEET NO. 1 OF 1