US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS

1,4,7 — 12'/6"; 2,5,8 — 12"; 3,6,9,10,11 — 12"

EXISTING SIGNS

15,18,20 — LEFT TURN YIELD ON GREEN — R10-12 (36" X 42")

17 — FIBER OPTIC R3-2 (36" X 36")

16A,16B,19A,19B — Carroll Street — D3-1 SINGLE FACED (VAR. X 16")

EXISTING OPTICOM DETECTOR EYE

12,13,14

ASSOCIATED SHEILD ASSEMBLY

21 NORTH BUSINESS 13 (36" X 75")
22 SOUTH BUSINESS 13 (24" X 51")
23 NORTH BUSINESS 13 (24" X 51")
24 SOUTH BUSINESS 13 (36" X 75")

PROPOSED VIDEO DETECTION CAMERA

A,B,C,D

NEMA PHASING

RAILROAD TRACK CLEARANCE

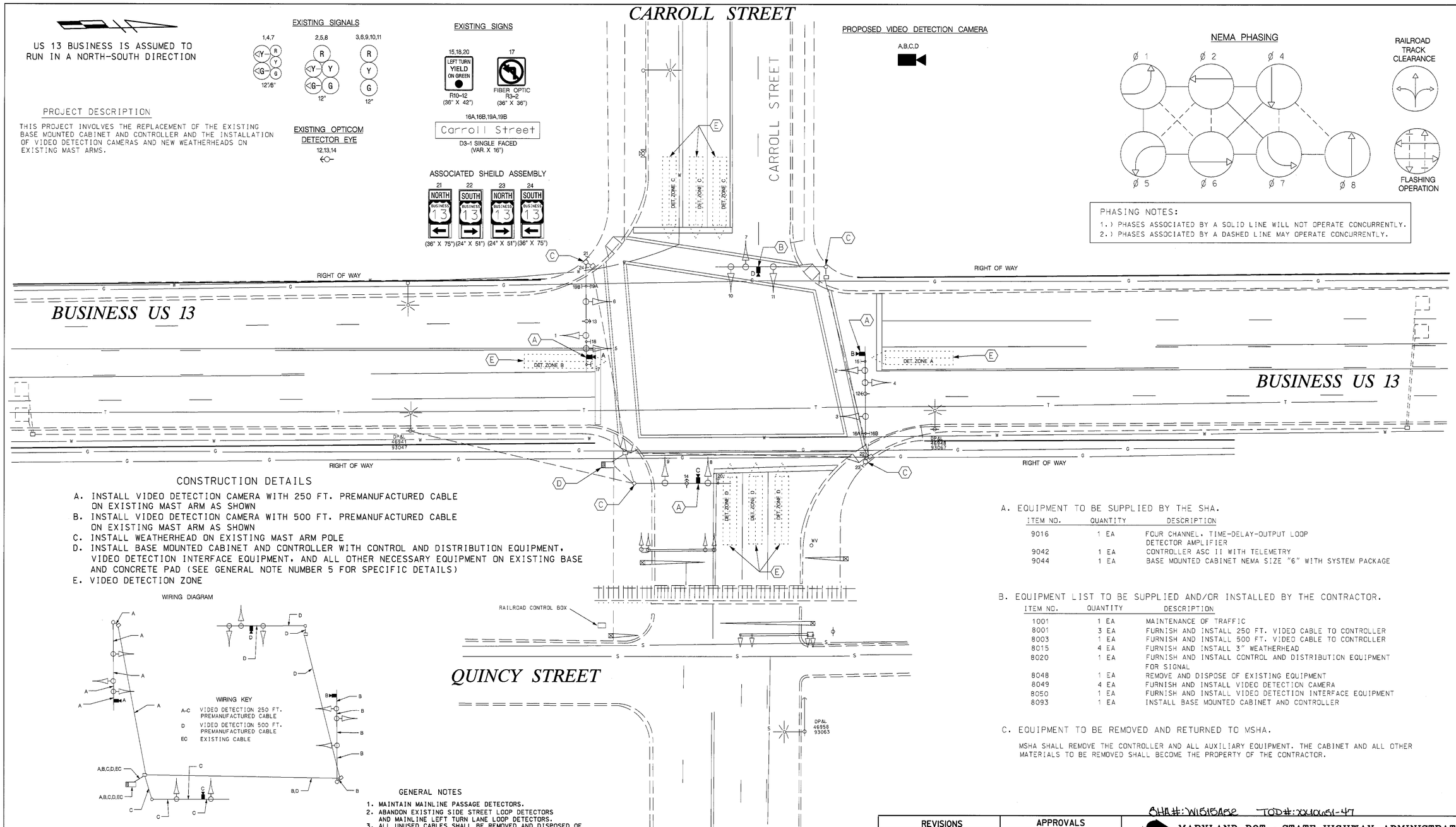
FLASHING OPERATION

PHASING NOTES:

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

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING BASE MOUNTED CABINET AND CONTROLLER AND THE INSTALLATION OF VIDEO DETECTION CAMERAS AND NEW WEATHERHEADS ON EXISTING MAST ARMS.



CONSTRUCTION DETAILS

A. INSTALL VIDEO DETECTION CAMERA WITH 250 FT. PREMANUFACTURED CABLE ON EXISTING MAST ARM AS SHOWN
B. INSTALL VIDEO DETECTION CAMERA WITH 500 FT. PREMANUFACTURED CABLE ON EXISTING MAST ARM AS SHOWN
C. INSTALL WEATHERHEAD ON EXISTING MAST ARM POLE
D. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH CONTROL AND DISTRIBUTION EQUIPMENT, VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL OTHER NECESSARY EQUIPMENT ON EXISTING BASE AND CONCRETE PAD (SEE GENERAL NOTE NUMBER 5 FOR SPECIFIC DETAILS)
E. VIDEO DETECTION ZONE

WIRING DIAGRAM

WIRING KEY

A-C VIDEO DETECTION 250 FT. PREMANUFACTURED CABLE
D VIDEO DETECTION 500 FT. PREMANUFACTURED CABLE
EC EXISTING CABLE

GENERAL NOTES

1. MAINTAIN MAINLINE PASSAGE DETECTORS.
2. ABANDON EXISTING SIDE STREET LOOP DETECTORS AND MAINLINE LEFT TURN LANE LOOP DETECTORS.
3. ALL UNUSED CABLES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. VIDEO CAMERA LOCATIONS AND ALIGNMENT SHALL BE COORDINATED WITH MSHA ENGINEER.
5. THE CONTRACTOR SHALL CONTACT MSHA SIGNAL SHOP TO SCHEDULE TERMINATION OF EXISTING CONTROLLER AND RETROFITTING OF THE PROPOSED CONTROLLER EQUIPMENT.
6. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EA	FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY
9044	1 EA	BASE MOUNTED CABINET NEMA SIZE "6" WITH SYSTEM PACKAGE

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8001	3 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER
8003	1 EA	FURNISH AND INSTALL 500 FT. VIDEO CABLE TO CONTROLLER
8015	4 EA	FURNISH AND INSTALL 3" WEATHERHEAD
8020	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL
8048	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8049	4 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8050	1 EA	FURNISH AND INSTALL VIDEO DETECTION INTERFACE EQUIPMENT
8093	1 EA	INSTALL BASE MOUNTED CABINET AND CONTROLLER

C. EQUIPMENT TO BE REMOVED AND RETURNED TO MSHA.

MSHA SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

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

REVISIONS

D	REPLACE CABINET AND CONTROLLER INSTALL VIDEO DETECTION CAMERAS	4/2004	SHA NO. XX1065185
B	REPLACE US 13B HEADS WITH BLACK FACED HEADS: ADD US 13B NEARSIDES	6/01	TIMS NO. E767
A	REMOVE SIGNALS FOR RAILROAD		

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
ORIGINAL ON FILE

SHA #: W1615A52 TOD #: XX1065-47

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNALIZATION PLAN
US 13 BUSINESS AND CARROLL STREET

DRAWN BY:	TOM ZAYDEL	F.A.P. NO.		TS NO. 1939-D	SHEET NO. 1 OF 1
CHECKED BY:	DENNIS DODA	S.H.A. NO.			
SCALE:	1" = 20'	COUNTY:	WICOMICO	T.I.M.S. NU. F648	
DATE:	2-8-84	LOG MILE:	22.00 13.05, 27		

m:\800\01-832\52 us 13 bus\carroll May. 04, 2004 11:31:36